



284 Sheffield Street, Mountainside, New Jersey 07092

Phone: (908)789-8900

Fax: (908)789-8922

Analysis Type
LOD Verification

Department	Year	Quarter
GC-MS Volatile	2024	2 nd

Instrument ID	Method	Matrix
MSVOA_L	TO-15	AIR

Spike Concentration	Compounds Used
0.03 PPB	Used for Compounds #,32,35,38,63
0.1 PPB	All compounds
0.40 PPB	Used for Compounds #2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21, 22,23,24,25,26,27,28,29,30,31,34,36,37,39,40,41,42,43,44,45,46,47,48,49 ,50,51,53,54,56,57,58,59,60,61,62,64,65,67,69,70,71,72,73,74,75,76,77,7 8,79,80,81
0.45 PPB	Used for Compounds #2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21, 22,23,24,25,26,27,28,29,30,31,34,36,37,39,40,41,42,43,44,45,46,47,48,49 ,50,51,53,54,56,57,58,59,60,61,62,64,65,67,69,70,71,72,73,74,75,76,77,7 8,79,80,81

Note: m/p xylene is spiked 2x

LOD Verification Status	Comment
Pass / Fail	Pass

Laboratory Analyst	Laboratory Supervisor	Laboratory Manager
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Sam	Mahesh Dadoda	Mohammad Ahmed
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050824\
 Data File : VL041235.D
 Acq On : 8 May 2024 9:24
 Operator : SY/MD
 Sample : VL0508ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 09 02:49:46 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu May 09 02:43:03 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.211	49	832527	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.671	114	2264275	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.487	117	2067879	10.000	ppbv	0.00

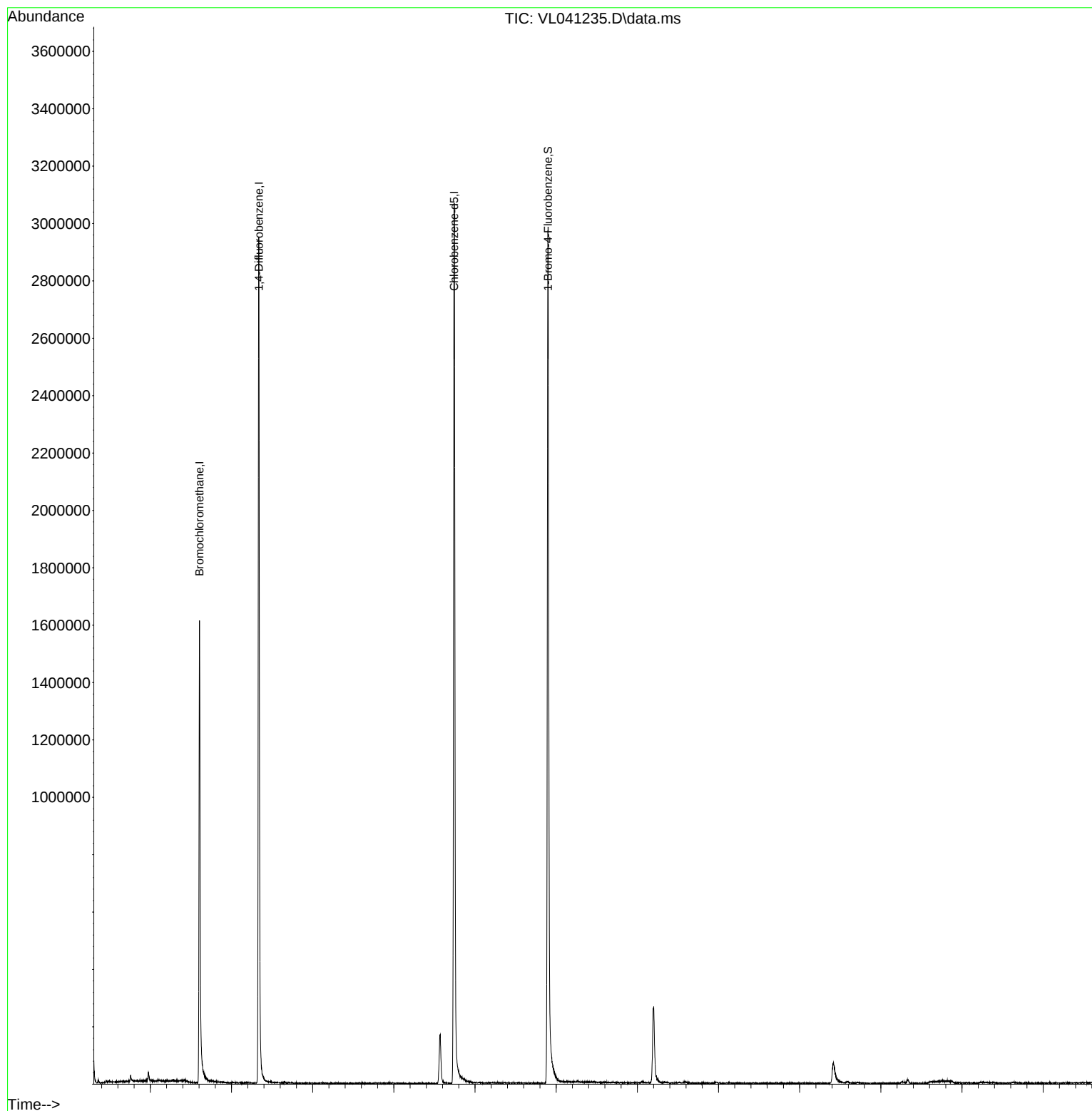
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.799	95	1559681	9.991	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.900%

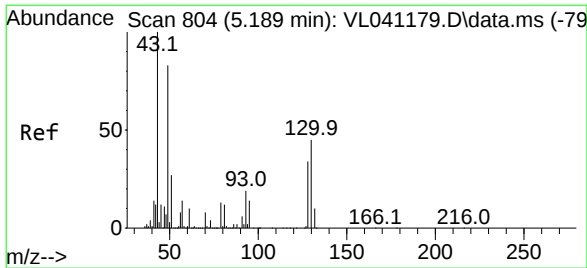
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050824\
Data File : VL041235.D
Acq On : 8 May 2024 9:24
Operator : SY/MD
Sample : VL0508ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

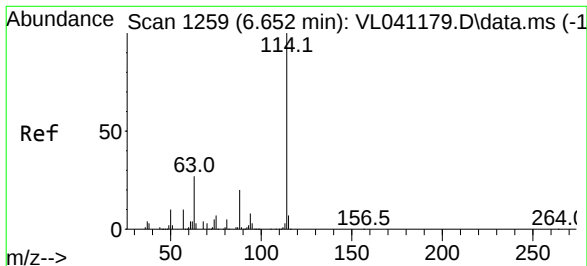
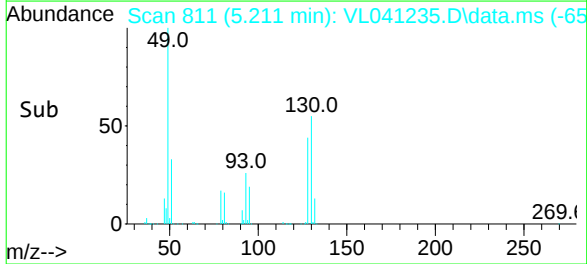
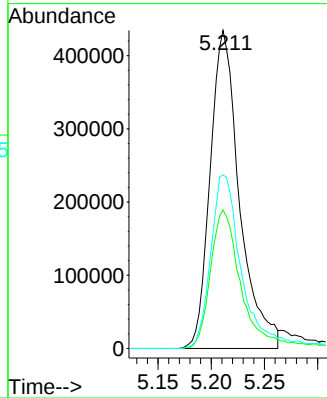
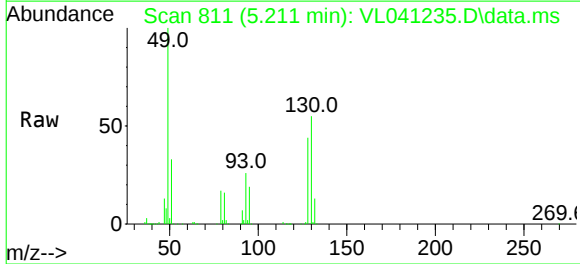
Quant Time: May 09 02:49:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu May 09 02:43:03 2024
Response via : Initial Calibration





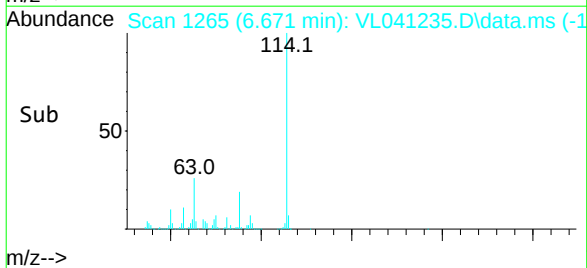
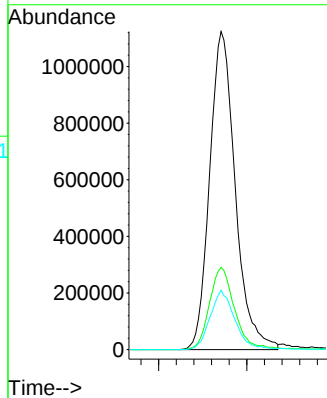
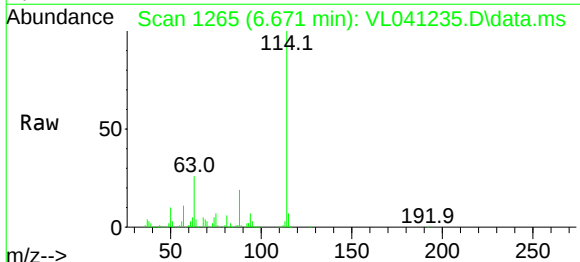
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.000 min
Lab File: VL041235.D
Acq: 8 May 2024 9:24

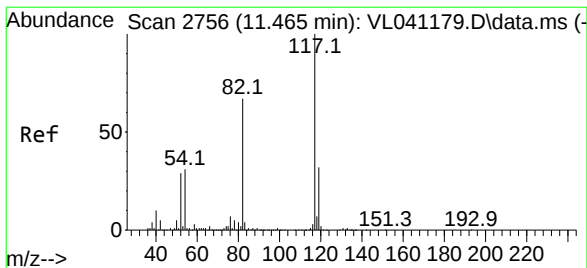
Tgt Ion: 49 Resp: 832527
Ion Ratio Lower Upper
49 100
128 47.5 21.5 64.5
130 59.4 27.2 81.6



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.671 min Scan# 1265
Delta R.T. -0.003 min
Lab File: VL041235.D
Acq: 8 May 2024 9:24

Tgt Ion: 114 Resp: 2264275
Ion Ratio Lower Upper
114 100
63 25.7 21.8 32.6
88 18.3 15.2 22.8





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.487 min Scan# 2763

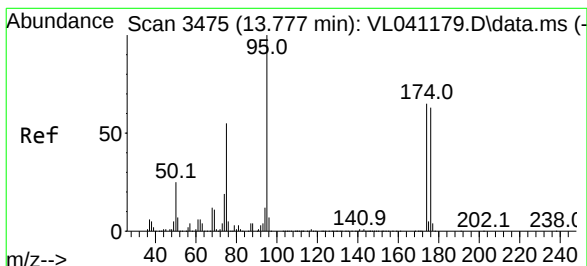
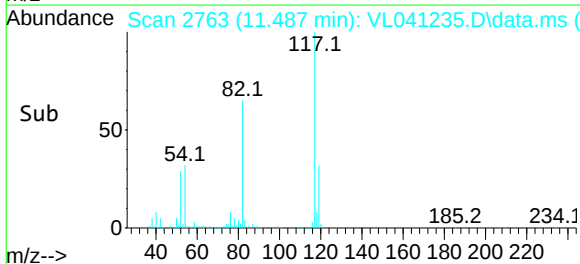
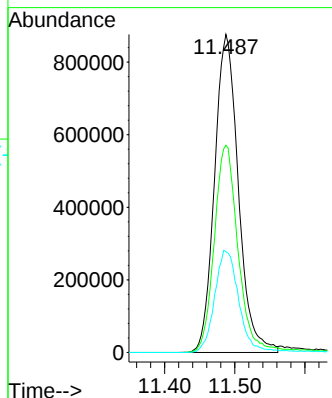
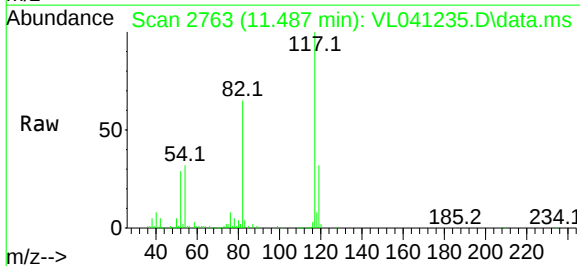
Delta R.T. -0.000 min

Lab File: VL041235.D

Acq: 8 May 2024 9:24

Tgt Ion:117 Resp: 2067879

Ion	Ratio	Lower	Upper
117	100		
82	66.0	53.6	80.4
119	33.0	27.2	40.8



#68

1-Bromo-4-Fluorobenzene

Concen: 9.991 ppbv

RT: 13.799 min Scan# 3482

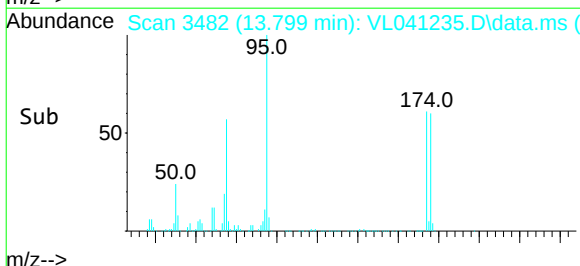
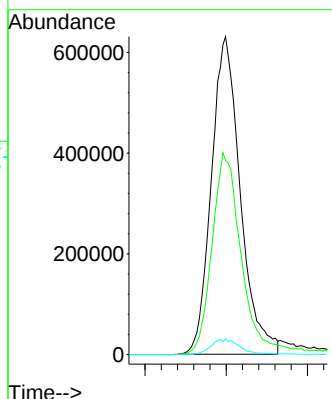
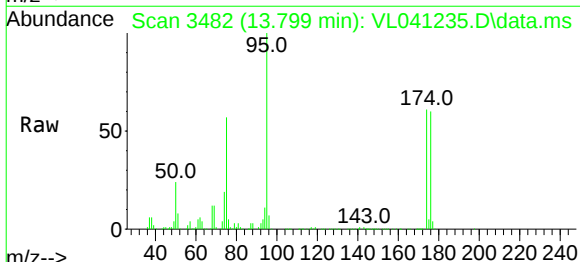
Delta R.T. 0.003 min

Lab File: VL041235.D

Acq: 8 May 2024 9:24

Tgt Ion: 95 Resp: 1559681

Ion	Ratio	Lower	Upper
95	100		
174	67.0	53.6	80.4
175	5.0	4.2	6.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050924\
 Data File : VL041250.D
 Acq On : 9 May 2024 9:34
 Operator : SY/MD
 Sample : VL0509ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 10 01:24:08 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 10 01:23:08 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.211	49	790352	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.671	114	2113966	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.481	117	1900123	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.793	95	1432979	9.989	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.900%

Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050924\
Data File : VL041250.D
Acq On : 9 May 2024 9:34
Operator : SY/MD
Sample : VL0509ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

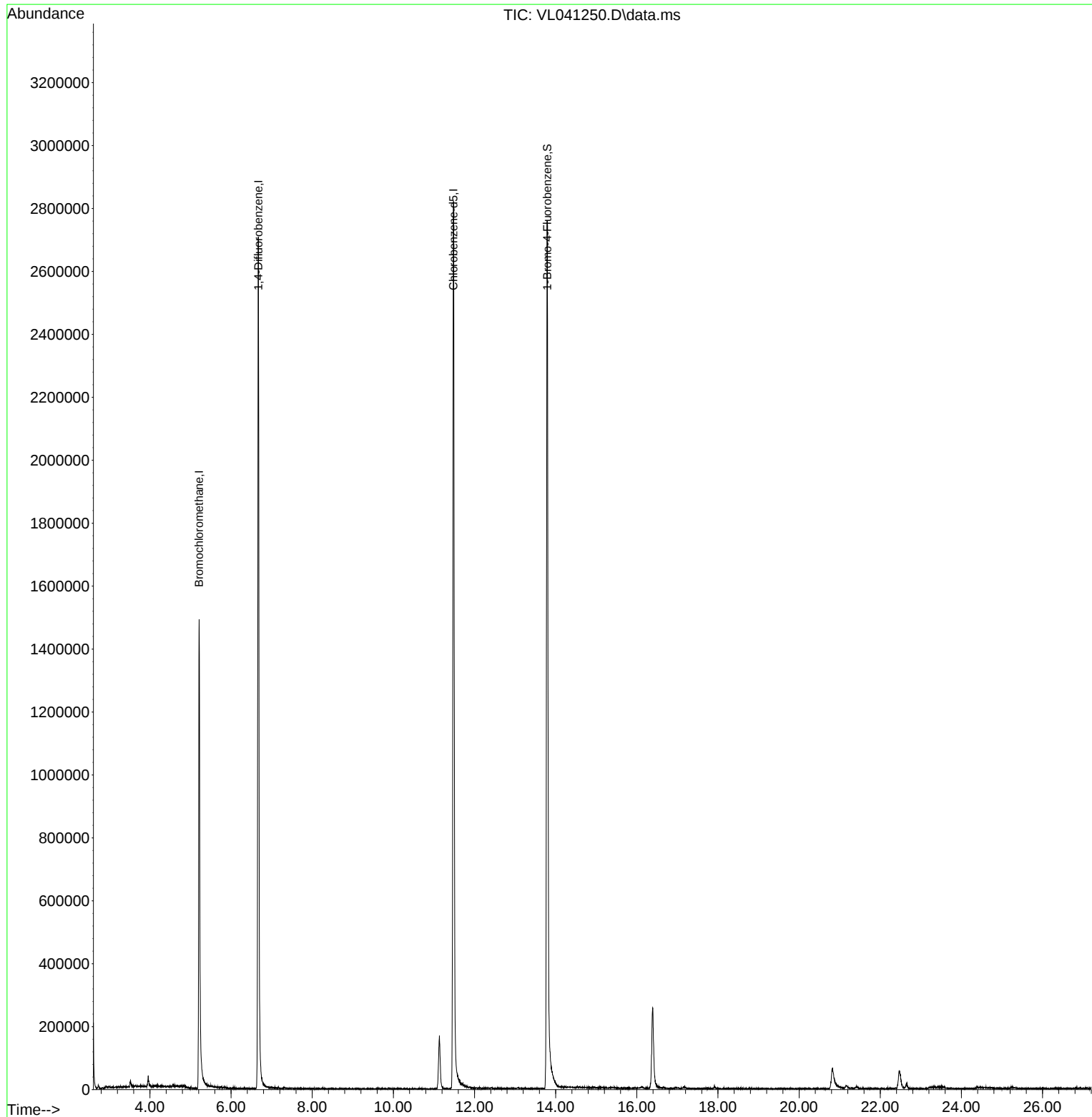
Quant Time: May 10 01:24:08 2024

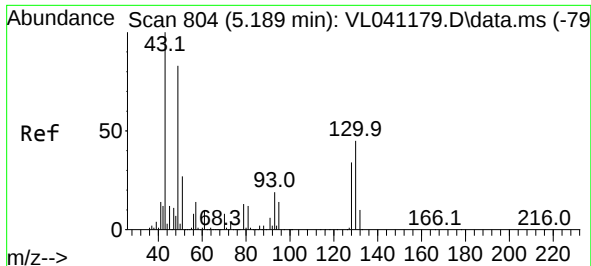
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

QLast Update : Fri May 10 01:23:08 2024

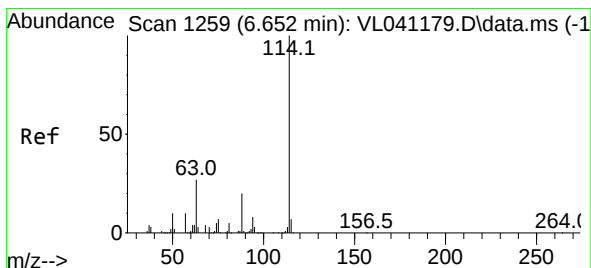
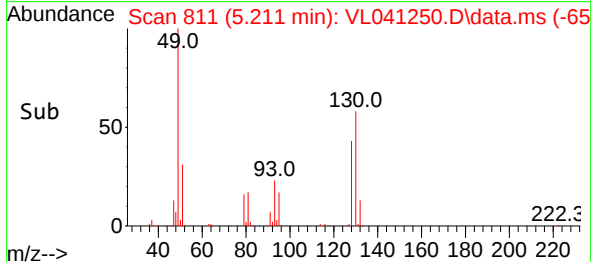
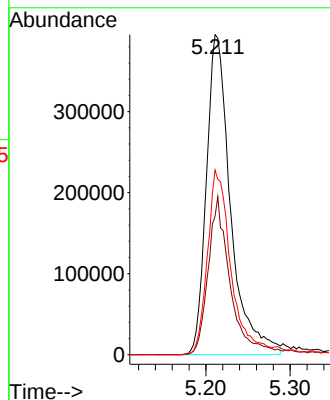
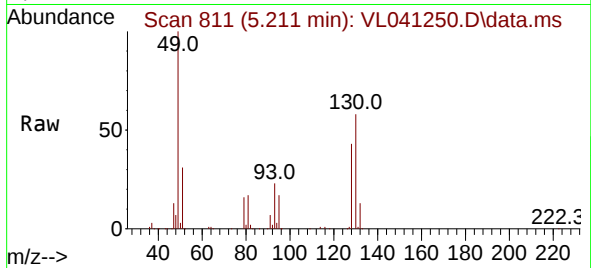
Response via : Initial Calibration





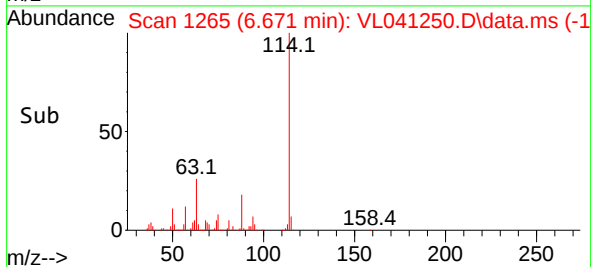
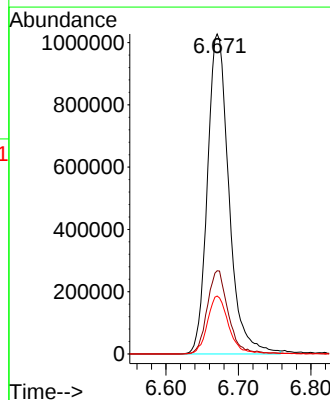
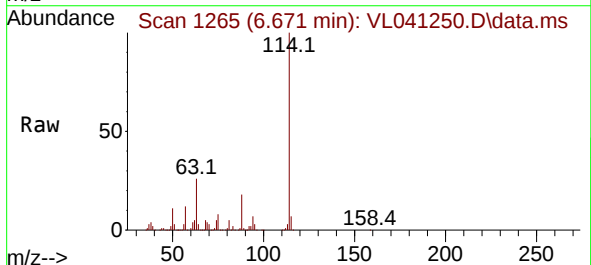
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.006 min
Lab File: VL041250.D
Acq: 9 May 2024 9:34

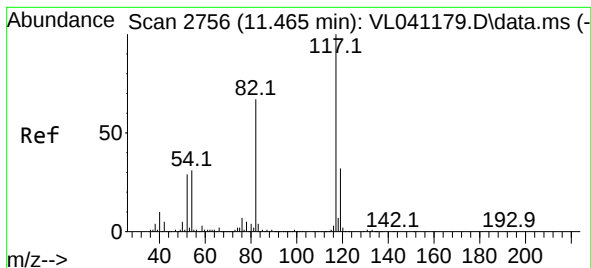
Tgt Ion: 49 Resp: 790352
Ion Ratio Lower Upper
49 100
128 46.4 21.5 64.5
130 58.7 27.2 81.6



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.671 min Scan# 1265
Delta R.T. 0.003 min
Lab File: VL041250.D
Acq: 9 May 2024 9:34

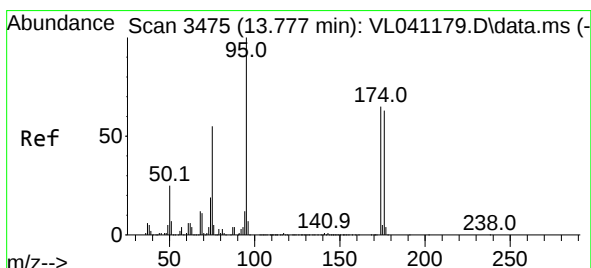
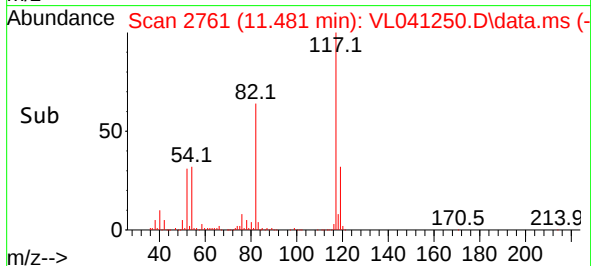
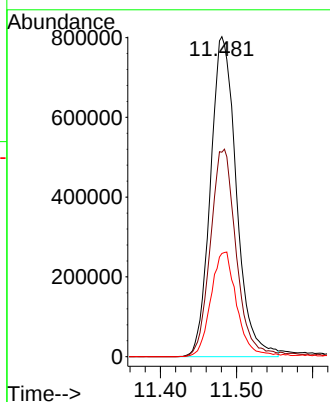
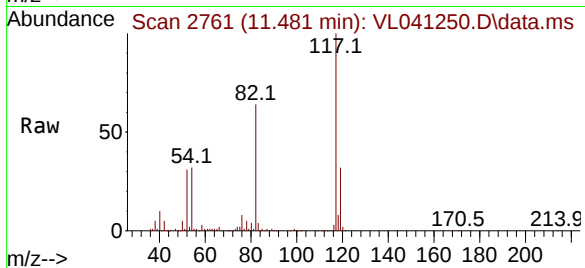
Tgt Ion: 114 Resp: 2113966
Ion Ratio Lower Upper
114 100
63 25.8 21.8 32.6
88 18.1 15.2 22.8





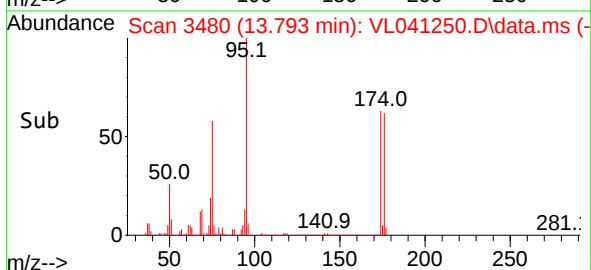
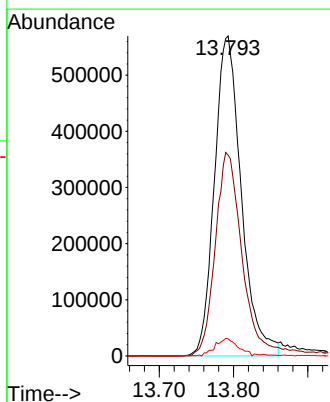
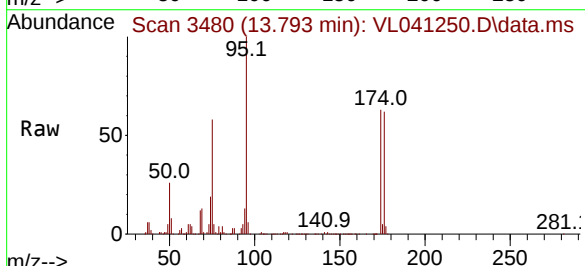
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.481 min Scan# 2761
Delta R.T. -0.000 min
Lab File: VL041250.D
Acq: 9 May 2024 9:34

Tgt Ion:117 Resp: 1900123
Ion Ratio Lower Upper
117 100
82 65.7 53.6 80.4
119 32.8 27.2 40.8



#68
1-Bromo-4-Fluorobenzene
Concen: 9.989 ppbv
RT: 13.793 min Scan# 3480
Delta R.T. 0.006 min
Lab File: VL041250.D
Acq: 9 May 2024 9:34

Tgt Ion: 95 Resp: 1432979
Ion Ratio Lower Upper
95 100
174 66.4 53.6 80.4
175 4.8 4.2 6.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050824\
 Data File : VL041239.D
 Acq On : 8 May 2024 11:56
 Operator : SY/MD
 Sample : P2403-13 LOD 0.45
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 09 04:49:45 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

QLast Update : Thu May 09 02:43:03 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.214	49	801683	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.677	114	2212838	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.491	117	2031753	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	13.802	95	1549552	10.102	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 101.000%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.751	85	69372	0.640	ppbv	94
3) Chlorodifluoromethane	2.700	51	65666	0.539	ppbv	98
4) Chloromethane	2.835	50	24673	0.516	ppbv	90
5) Vinyl Chloride	2.944	62	22800	0.475	ppbv	99
6) Bromomethane	3.140	94	9699m	0.554	ppbv	
7) Chloroethane	3.221	64	8982	0.530	ppbv	93
8) Dichlorotetrafluoroethane	2.880	85	59079	0.526	ppbv	95
9) Propene	2.716	41	23211	0.487	ppbv	96
10) Heptane	7.606	43	48360	0.419	ppbv	88
11) Trichlorofluoromethane	3.581	101	58578	0.532	ppbv	85
12) 1,1,2-Trichlorotrifluo...	4.086	101	39733	0.488	ppbv	92
13) Ethanol	3.282	45	5100	0.477	ppbv	98
14) Bromoethene	3.388	108	15362	0.457	ppbv #	85
15) Acetone	3.507	43	54710	0.578	ppbv	92
16) 1,3-Butadiene	3.005	39	25458m	0.533	ppbv	
17) tert-Butyl alcohol	3.912	59	42643m	0.418	ppbv	
18) 1,1-Dichloroethene	3.902	96	17978	0.495	ppbv	84
19) Isopropyl Alcohol	3.610	45	29404m	0.474	ppbv	
20) Methylene Chloride	3.954	84	19749	0.600	ppbv #	94
21) Allyl Chloride	4.015	41	30582m	0.496	ppbv	
22) trans-1,2-Dichloroethene	4.468	96	17089	0.452	ppbv	88
23) Vinyl Acetate	4.655	43	43344m	0.416	ppbv	
24) 1,1-Dichloroethane	4.584	63	42182	0.521	ppbv	97
25) Ethyl Acetate	5.240	43	80493	0.426	ppbv #	95
26) Hexane	5.234	57	38109m	0.452	ppbv	
27) Carbon Disulfide	4.150	76	42510	0.426	ppbv #	82
28) Methyl tert-Butyl Ether	4.619	73	29579	0.441	ppbv #	89
29) Chloroform	5.295	83	62456	0.537	ppbv	93
30) Cyclohexane	6.629	84	33021m	0.495	ppbv	
31) cis-1,2-Dichloroethene	5.102	61	38651m	0.490	ppbv	
32) 1,1,1-Trichloroethane	6.028	97	55116	0.475	ppbv	94
34) 2-Butanone	4.825	43	55030m	0.489	ppbv	
35) Carbon Tetrachloride	6.516	117	54161	0.436	ppbv	93
36) Benzene	6.394	78	80294	0.432	ppbv #	94
37) 1,2-Dichloroethane	5.828	62	43808	0.452	ppbv #	95
38) Trichloroethene	7.317	130	31413	0.454	ppbv	90
39) 1,2-Dichloropropane	7.095	63	33025m	0.461	ppbv	
40) 1,4-Dioxane	7.349	88	10492m	0.410	ppbv	
41) Tetrahydrofuran	5.607	42	33008m	0.405	ppbv	
42) Bromodichloromethane	7.272	83	64823	0.466	ppbv	97
43) Methyl Methacrylate	7.504	69	29030m	0.387	ppbv	
44) 2,2,4-Trimethylpentane	7.352	57	138847m	0.434	ppbv	
45) t-1,3-Dichloropropene	8.741	75	17300m	0.318	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050824\
 Data File : VL041239.D
 Acq On : 8 May 2024 11:56
 Operator : SY/MD
 Sample : P2403-13 LOD 0.45
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 09 04:49:45 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

QLast Update : Thu May 09 02:43:03 2024

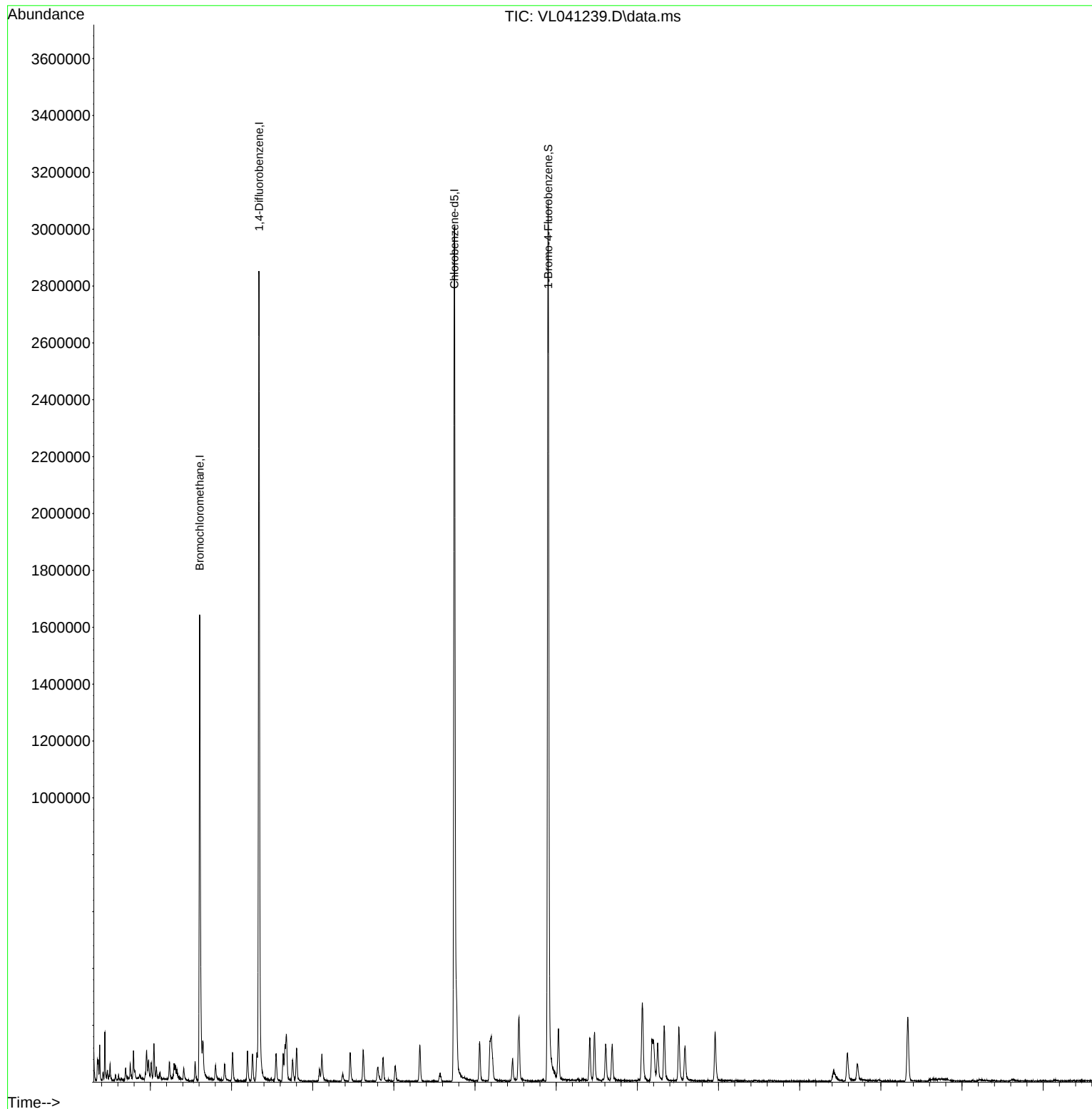
Response via : Initial Calibration

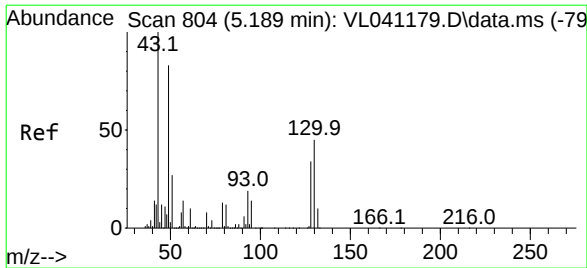
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.166	75	24707m	0.371	ppbv	
47) 1,1,2-Trichloroethane	8.928	97	33955m	0.474	ppbv	
48) Dibromochloromethane	9.732	129	48460	0.425	ppbv	100
49) Bromoform	12.429	173	35499	0.366	ppbv	98
50) 4-Methyl-2-Pentanone	8.227	43	82303m	0.407	ppbv	
51) 2-Hexanone	9.610	43	60790m	0.405	ppbv	
52) Tetrachloroethene	10.648	164	31109m	0.477	ppbv	
53) Toluene	9.243	91	88002	0.409	ppbv	99
54) 1,2-Dibromoethane	10.034	107	44295	0.457	ppbv	87
56) 1,1,1,2-Tetrachloroethane	11.536	131	34232	0.416	ppbv #	59
57) Chlorobenzene	11.552	112	77118	0.518	ppbv #	92
58) Ethyl Benzene	12.114	91	119605	0.429	ppbv	97
59) m/p-Xylene	12.397	91	209274m	0.894	ppbv	
60) o-Xylene	13.085	91	104445m	0.476	ppbv	
61) Styrene	12.928	104	47677m	0.411	ppbv	
62) Isopropylbenzene	14.060	105	155892	0.475	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.076	83	73376m	0.490	ppbv	
64) n-propylbenzene	14.947	120	36838	0.450	ppbv	83
65) tert-Butylbenzene	16.114	119	131000	0.446	ppbv	95
66) Benzyl Chloride	16.371	91	6223m	0.187	ppbv	
67) sec-Butylbenzene	16.664	105	190806	0.461	ppbv	97
69) p-Isopropyltoluene	17.021	119	150831	0.442	ppbv	97
70) n-Butylbenzene	17.915	91	147254	0.413	ppbv	97
71) 2-Chlorotoluene	14.825	91	112984	0.452	ppbv	97
72) 4-Ethyltoluene	15.217	105	115674m	0.465	ppbv	
73) 1,3,5-Trimethylbenzene	15.381	105	96213	0.428	ppbv	98
74) 1,2,4-Trimethylbenzene	16.137	105	111370	0.453	ppbv #	94
75) 1,3-Dichlorobenzene	16.362	146	70012m	0.497	ppbv	
76) 1,4-Dichlorobenzene	16.500	146	59791	0.441	ppbv	89
77) 1,2-Dichlorobenzene	17.172	146	62813	0.446	ppbv	91
78) Hexachloro-1,3-Butadiene	22.667	225	60109m	0.480	ppbv	
79) Naphthalene	21.429	128	82599m	0.353	ppbv	
80) Naphthalene,2-methyl-	24.413	142	13912m	0.148	ppbv	
81) 1,2,4-Trichlorobenzene	21.175	180	43698m	0.354	ppbv	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050824\
Data File : VL041239.D
Acq On : 8 May 2024 11:56
Operator : SY/MD
Sample : P2403-13 LOD 0.45
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

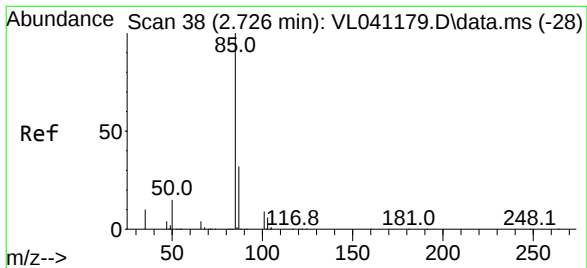
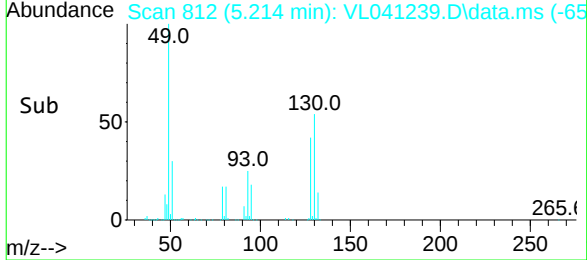
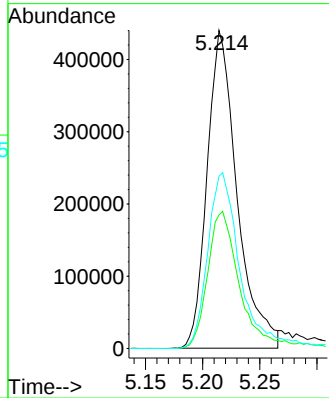
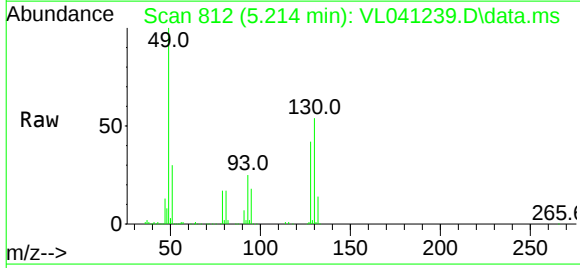
Quant Time: May 09 04:49:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu May 09 02:43:03 2024
Response via : Initial Calibration





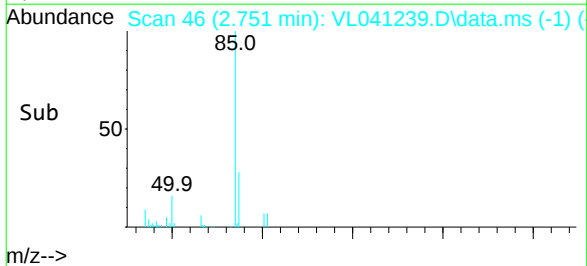
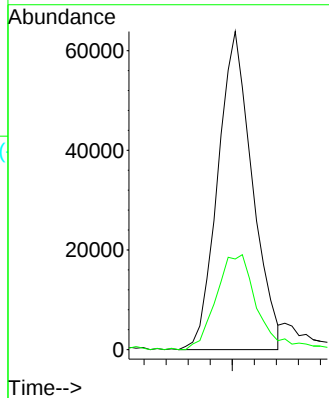
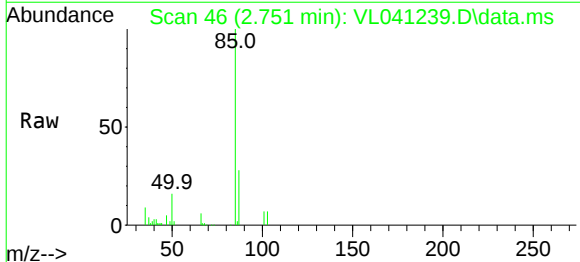
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.214 min Scan# 812
Delta R.T. 0.003 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

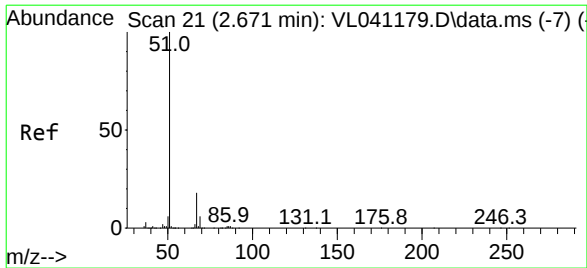
Tgt Ion	Ratio	Lower	Upper
49	100		
128	48.2	21.5	64.5
130	61.2	27.2	81.6



#2
Dichlorodifluoromethane
Concen: 0.640 ppbv
RT: 2.751 min Scan# 46
Delta R.T. 0.006 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

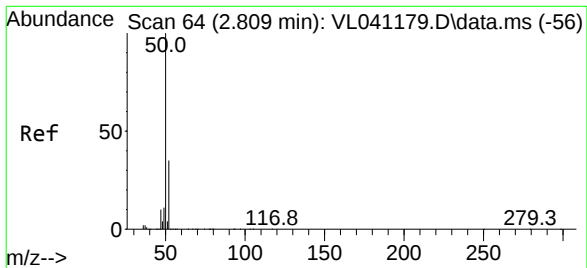
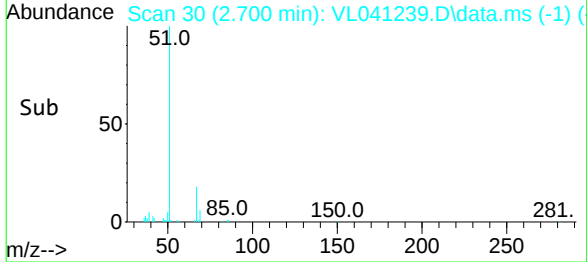
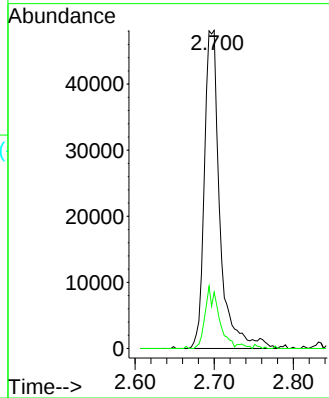
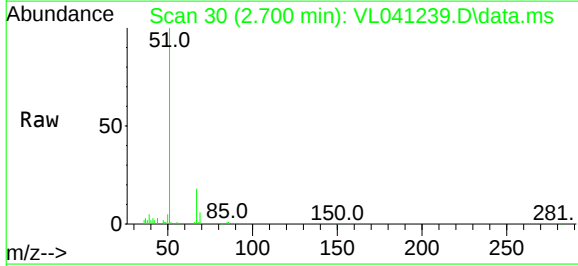
Tgt Ion	Ratio	Lower	Upper
85	100		
87	28.5	25.7	38.5





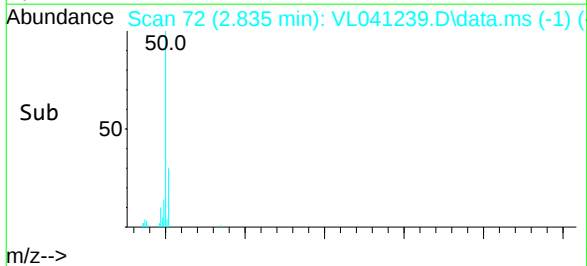
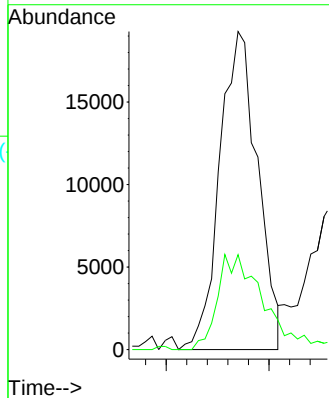
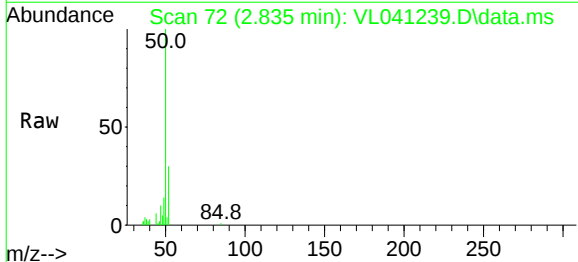
#3
Chlorodifluoromethane
Concen: 0.539 ppbv
RT: 2.700 min Scan# 30
Delta R.T. 0.010 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

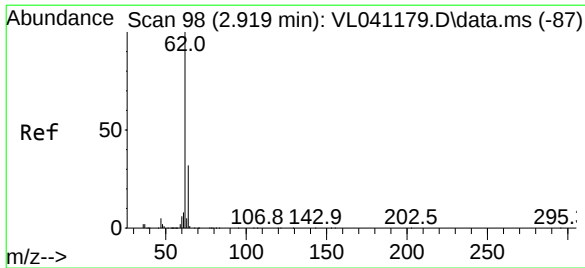
Tgt Ion: 51 Resp: 65666
Ion Ratio Lower Upper
51 100
67 18.5 14.0 21.0



#4
Chloromethane
Concen: 0.516 ppbv
RT: 2.835 min Scan# 72
Delta R.T. 0.003 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

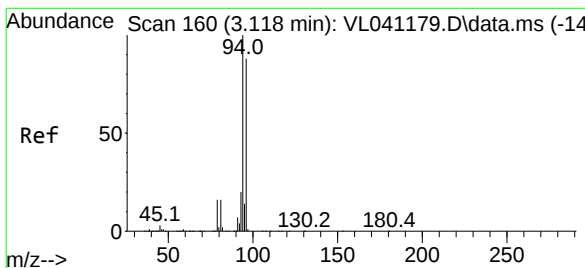
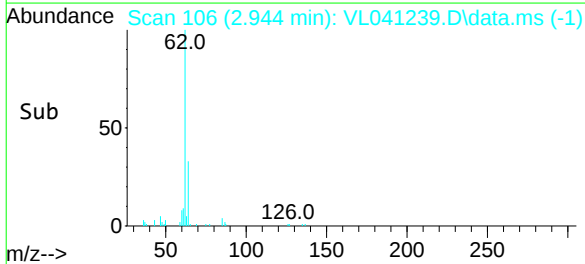
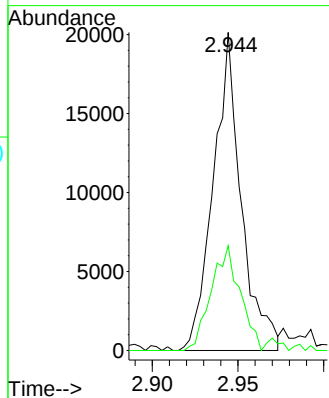
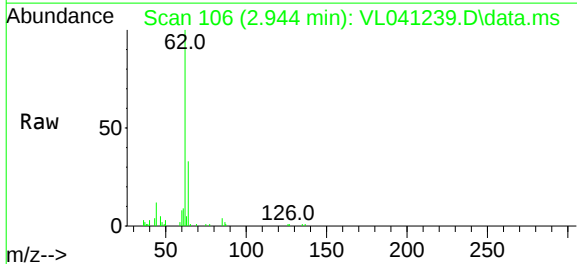
Tgt Ion: 50 Resp: 24673
Ion Ratio Lower Upper
50 100
52 29.8 28.3 42.5





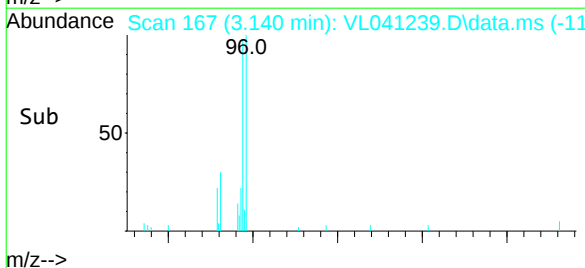
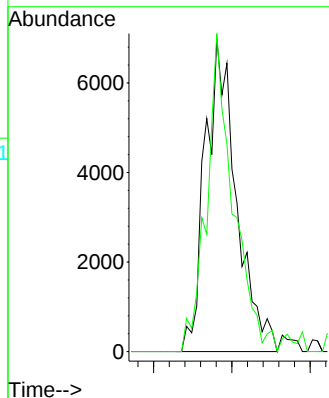
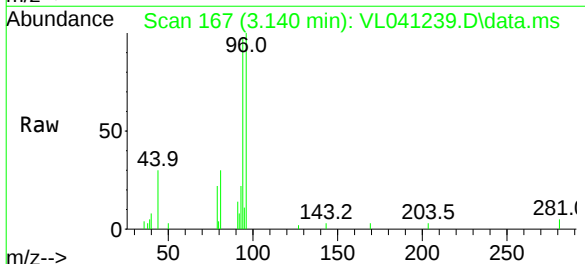
#5
 Vinyl Chloride
 Concen: 0.475 ppbv
 RT: 2.944 min Scan# 106
 Delta R.T. 0.006 min
 Lab File: VL041239.D
 Acq: 8 May 2024 11:56

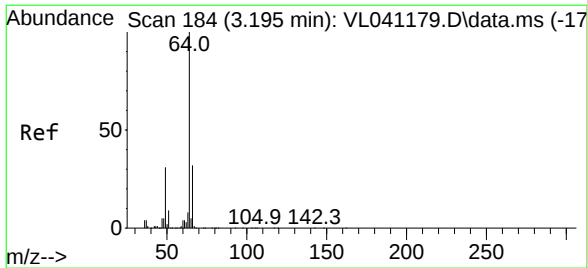
Tgt Ion: 62 Resp: 22800
 Ion Ratio Lower Upper
 62 100
 64 32.9 25.7 38.5



#6
 Bromomethane
 Concen: 0.554 ppbv m
 RT: 3.140 min Scan# 167
 Delta R.T. 0.003 min
 Lab File: VL041239.D
 Acq: 8 May 2024 11:56

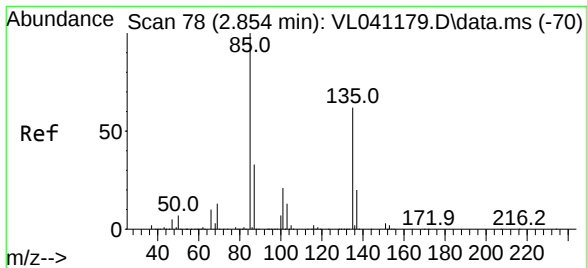
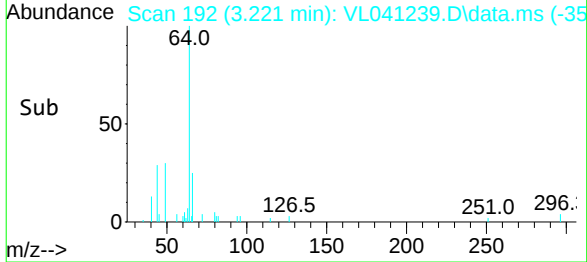
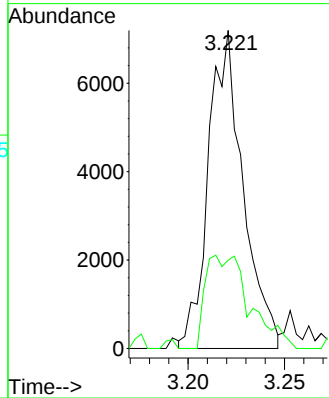
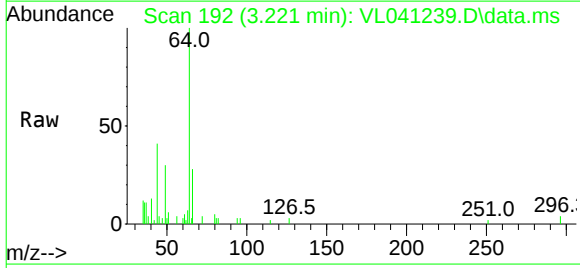
Tgt Ion: 94 Resp: 9699
 Ion Ratio Lower Upper
 94 100
 96 101.6 70.1 105.1





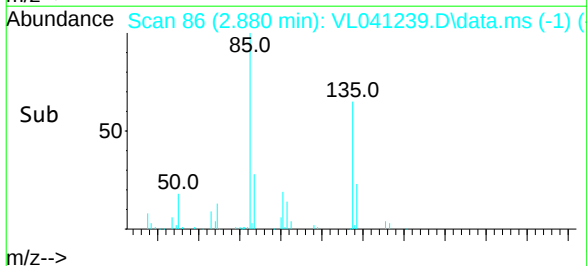
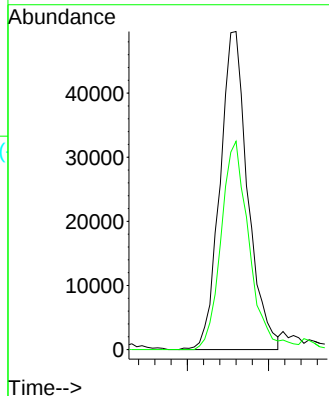
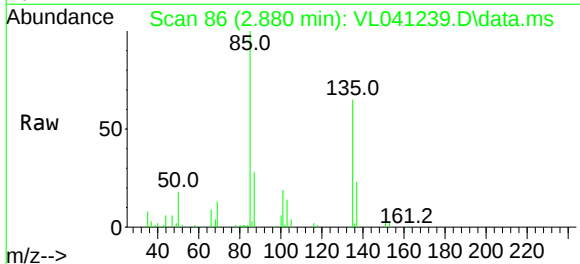
#7
Chloroethane
Concen: 0.530 ppbv
RT: 3.221 min Scan# 192
Delta R.T. 0.006 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

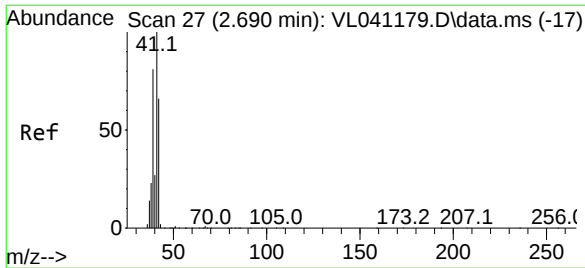
Tgt Ion: 64 Resp: 8982
Ion Ratio Lower Upper
64 100
66 27.8 25.4 38.2



#8
Dichlorotetrafluoroethane
Concen: 0.526 ppbv
RT: 2.880 min Scan# 86
Delta R.T. 0.006 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

Tgt Ion: 85 Resp: 59079
Ion Ratio Lower Upper
85 100
135 68.6 51.5 77.3





#9

Propene

Concen: 0.487 ppbv

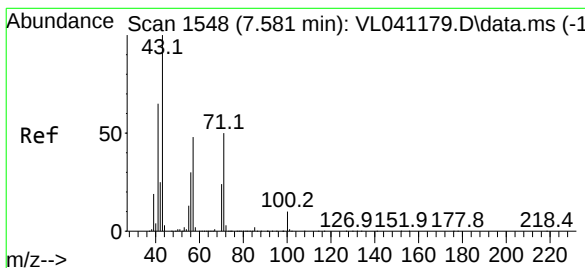
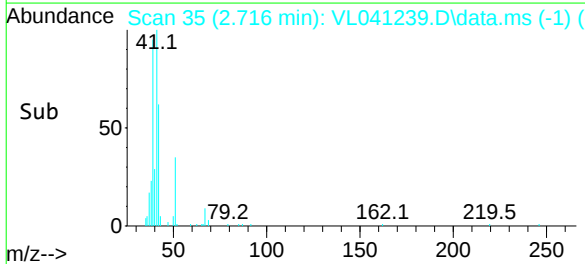
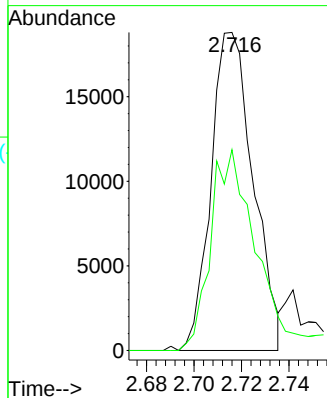
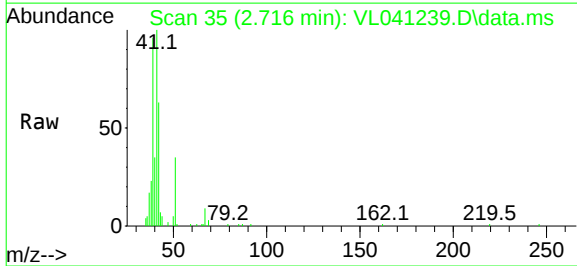
RT: 2.716 min Scan# 35

Delta R.T. 0.006 min

Lab File: VL041239.D

Acq: 8 May 2024 11:56

Tgt Ion	Ratio	Lower	Upper
41	100		
42	72.2	55.3	82.9



#10

Heptane

Concen: 0.419 ppbv

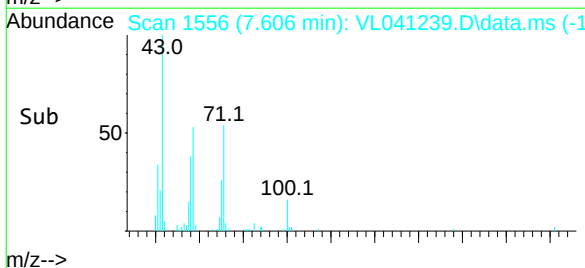
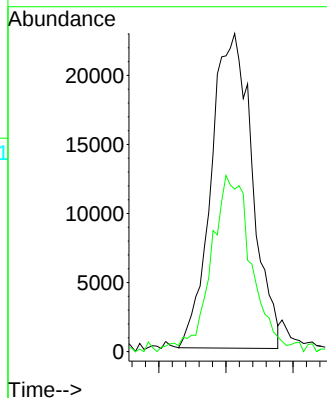
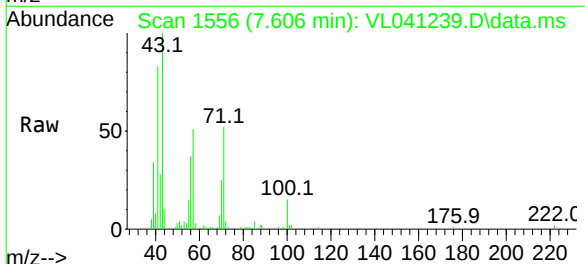
RT: 7.606 min Scan# 1556

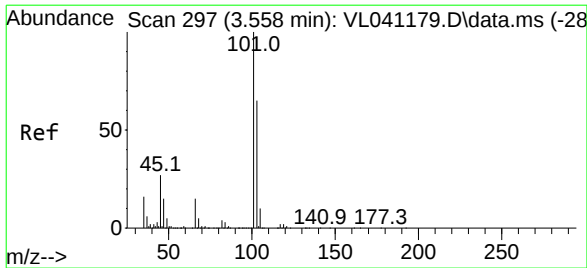
Delta R.T. 0.006 min

Lab File: VL041239.D

Acq: 8 May 2024 11:56

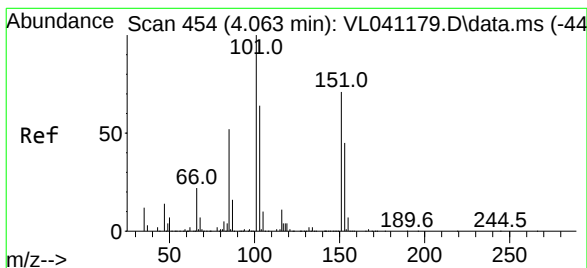
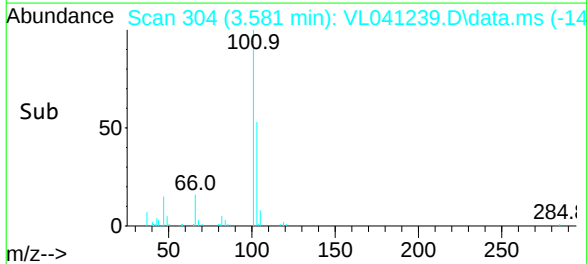
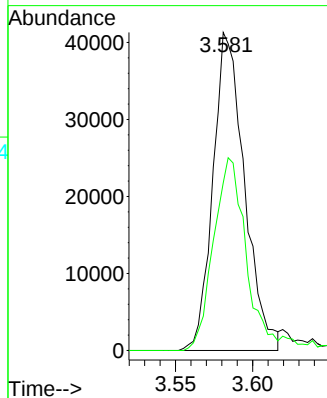
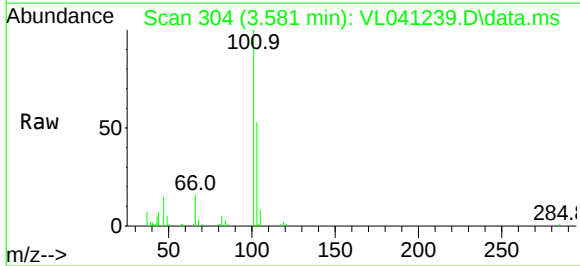
Tgt Ion	Ratio	Lower	Upper
43	100		
57	56.7	38.7	58.1





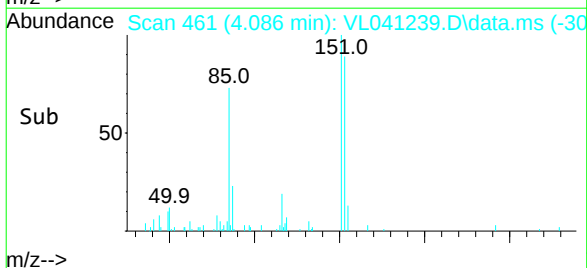
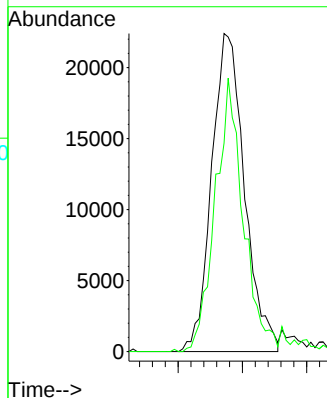
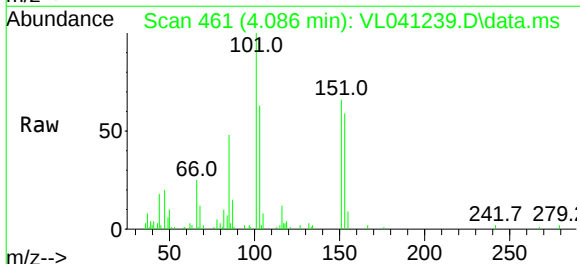
#11
Trichlorofluoromethane
Concen: 0.532 ppbv
RT: 3.581 min Scan# 304
Delta R.T. -0.000 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

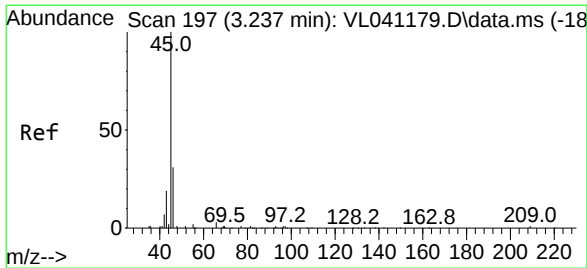
Tgt Ion:101 Resp: 58578
Ion Ratio Lower Upper
101 100
103 52.7 51.6 77.4



#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.488 ppbv
RT: 4.086 min Scan# 461
Delta R.T. 0.003 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

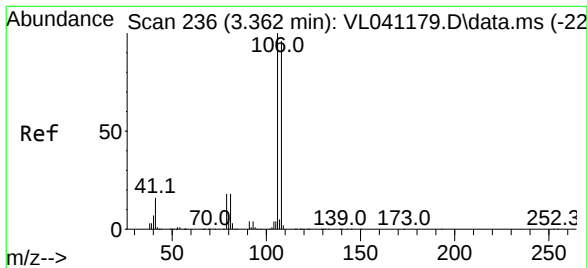
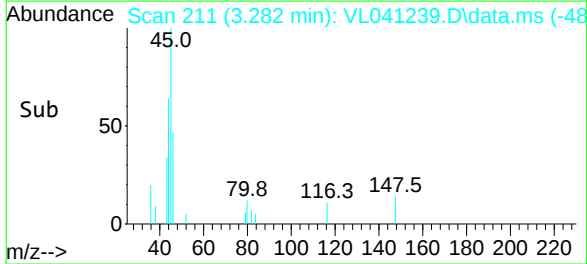
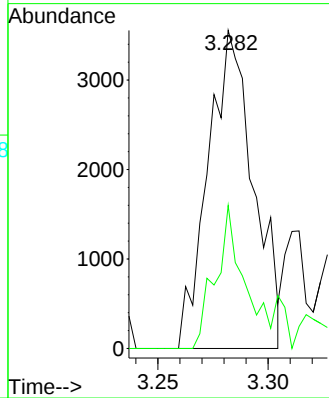
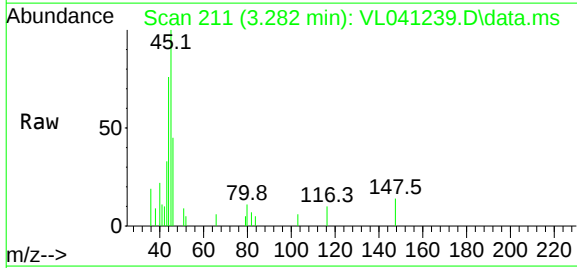
Tgt Ion:101 Resp: 39733
Ion Ratio Lower Upper
101 100
151 77.4 56.8 85.2





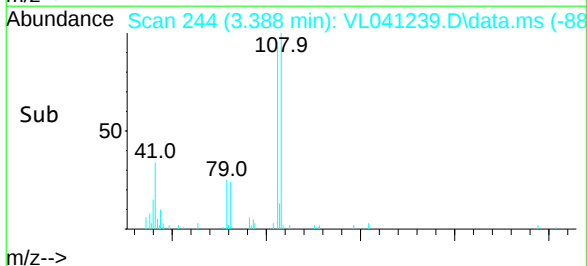
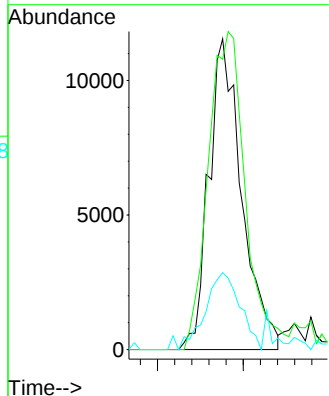
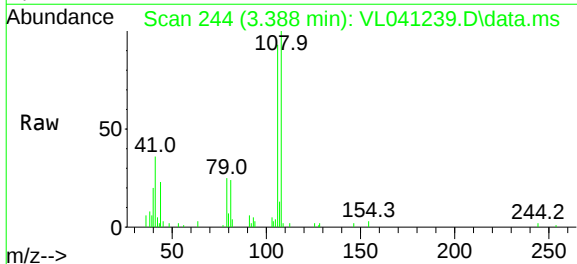
#13
Ethanol
Concen: 0.477 ppbv
RT: 3.282 min Scan# 211
Delta R.T. 0.026 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

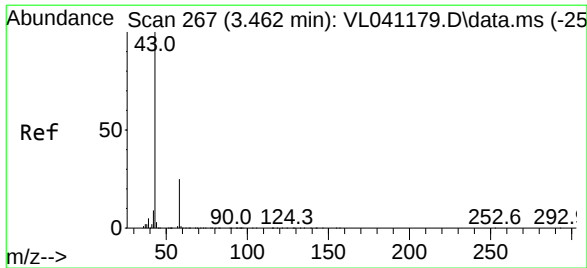
Tgt Ion	Ratio	Lower	Upper
45	100		
46	38.2	14.8	59.0



#14
Bromoethene
Concen: 0.457 ppbv
RT: 3.388 min Scan# 244
Delta R.T. 0.003 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

Tgt Ion	Ratio	Lower	Upper
108	100		
106	123.9	88.2	132.4
79	32.5	17.4	26.0





#15

Acetone

Concen: 0.578 ppbv

RT: 3.507 min Scan# 281

Delta R.T. 0.022 min

Lab File: VL041239.D

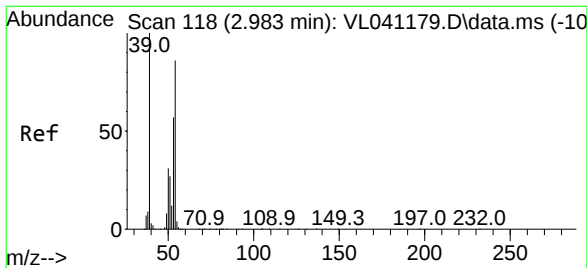
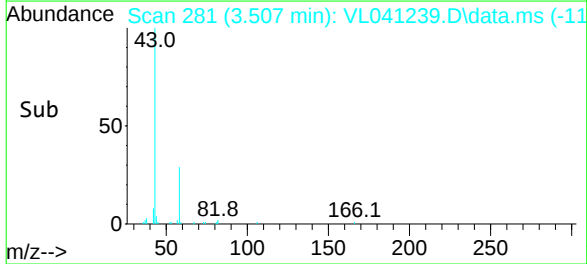
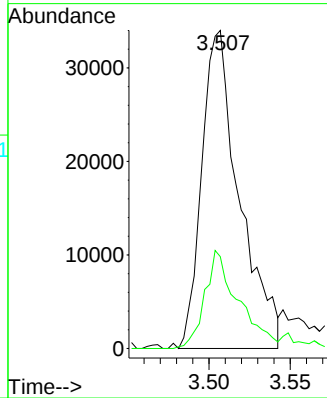
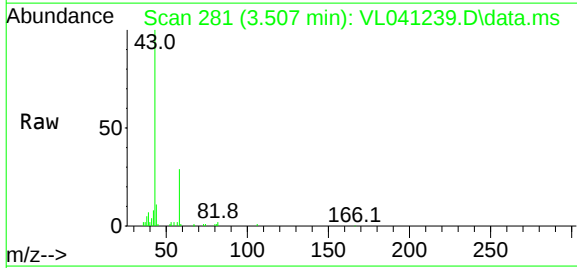
Acq: 8 May 2024 11:56

Tgt Ion: 43 Resp: 54710

Ion Ratio Lower Upper

43 100

58 30.9 21.4 32.0



#16

1,3-Butadiene

Concen: 0.533 ppbv m

RT: 3.005 min Scan# 125

Delta R.T. 0.003 min

Lab File: VL041239.D

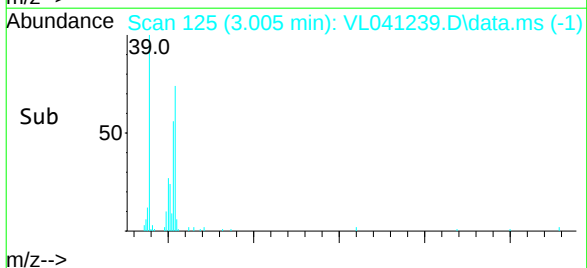
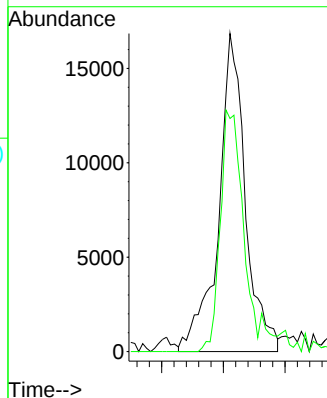
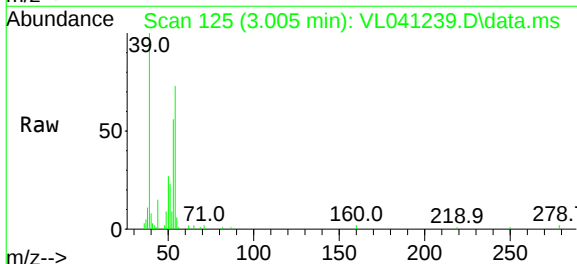
Acq: 8 May 2024 11:56

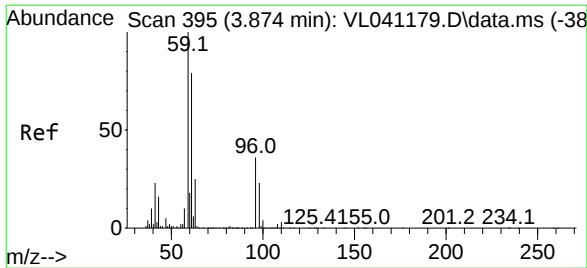
Tgt Ion: 39 Resp: 25458

Ion Ratio Lower Upper

39 100

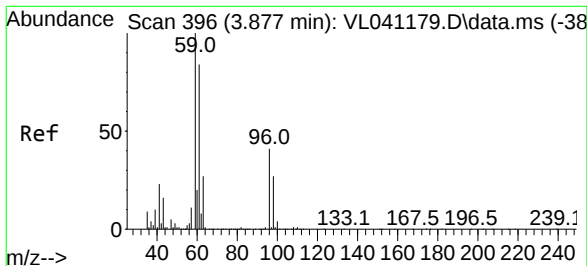
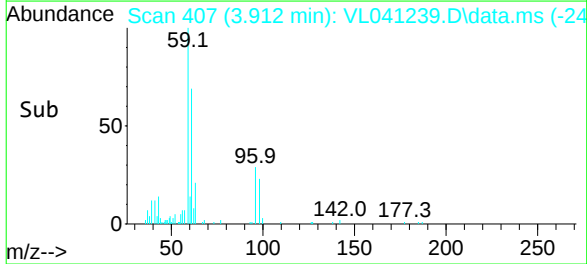
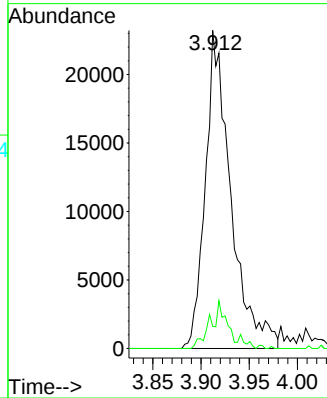
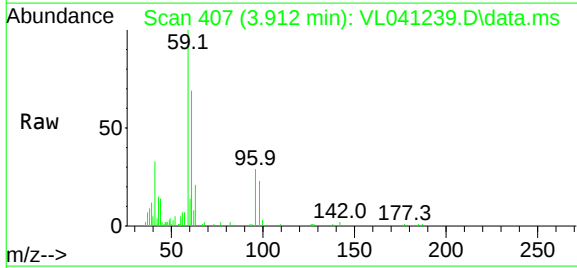
54 72.3 62.2 93.4





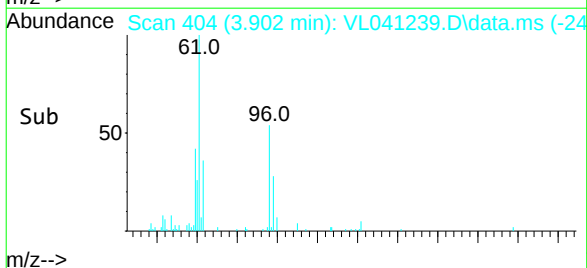
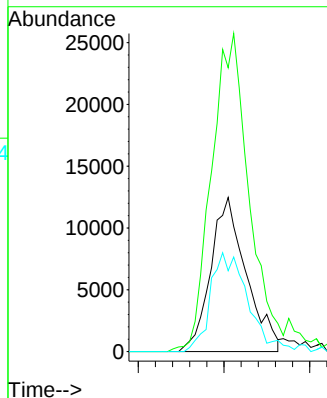
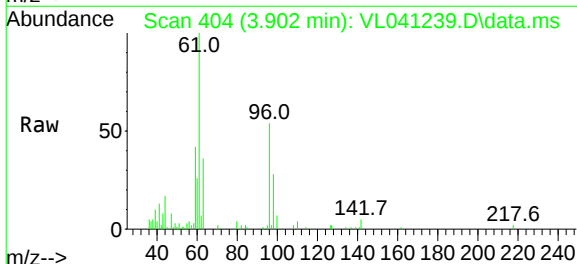
#17
tert-Butyl alcohol
Concen: 0.418 ppbv m
RT: 3.912 min Scan# 407
Delta R.T. 0.016 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

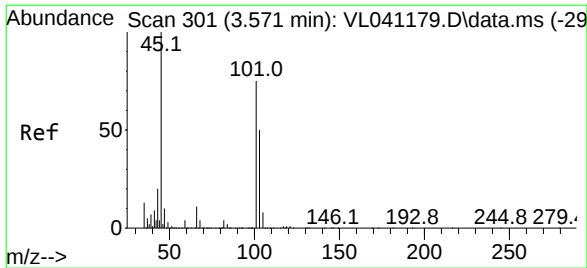
Tgt Ion: 59 Resp: 42643
Ion Ratio Lower Upper
59 100
57 11.0 8.4 12.6



#18
1,1-Dichloroethene
Concen: 0.495 ppbv
RT: 3.902 min Scan# 404
Delta R.T. 0.006 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

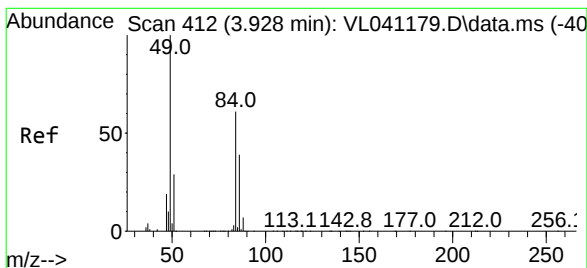
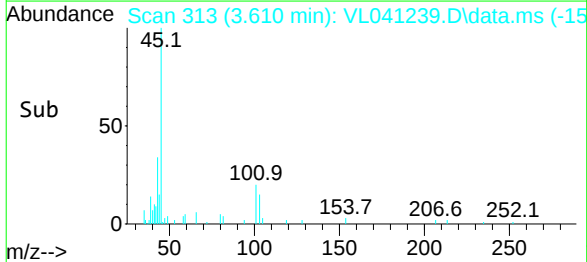
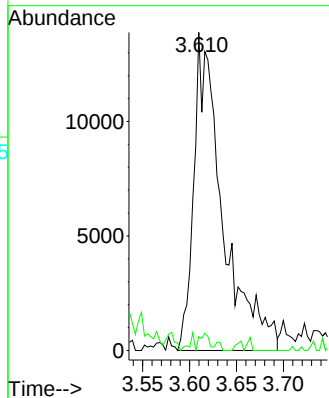
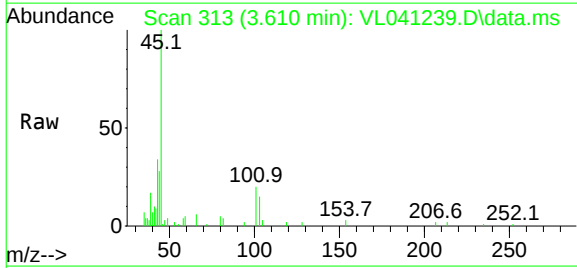
Tgt Ion: 96 Resp: 17978
Ion Ratio Lower Upper
96 100
61 181.1 164.4 246.6
98 52.5 51.8 77.8





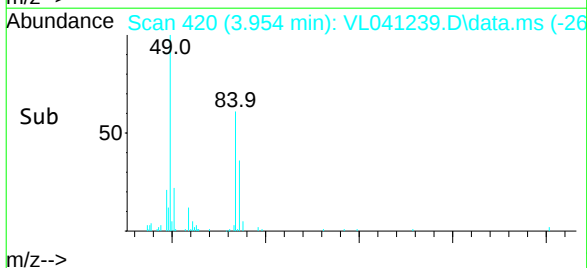
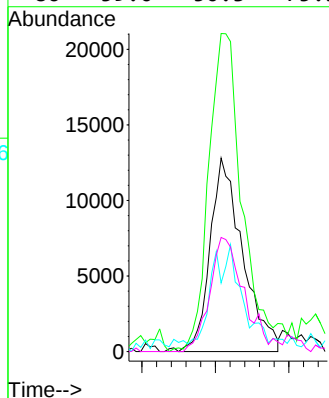
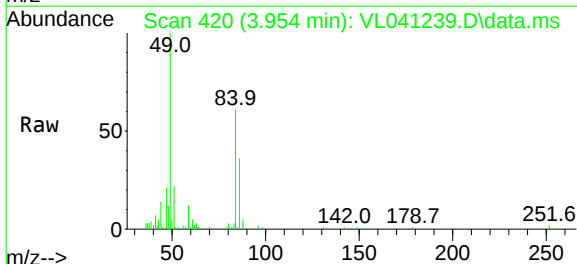
#19
Isopropyl Alcohol
Concen: 0.474 ppbv m
RT: 3.610 min Scan# 313
Delta R.T. 0.019 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

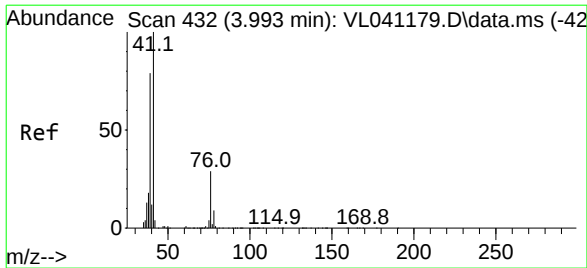
Tgt Ion: 45 Resp: 29404
Ion Ratio Lower Upper
45 100
58 3.1 26.8 40.2#



#20
Methylene Chloride
Concen: 0.600 ppbv
RT: 3.954 min Scan# 420
Delta R.T. 0.003 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

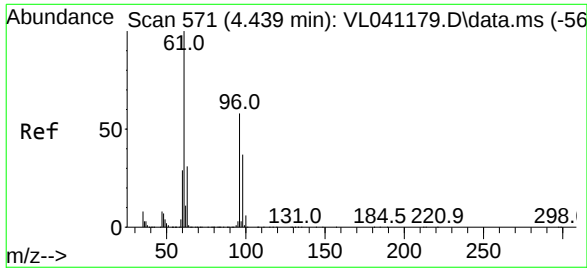
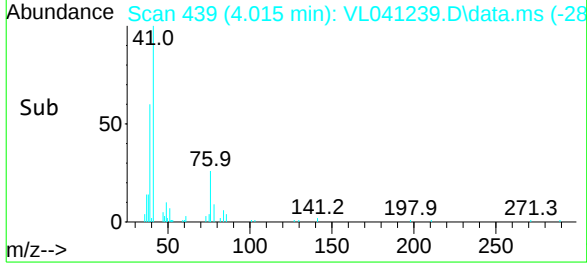
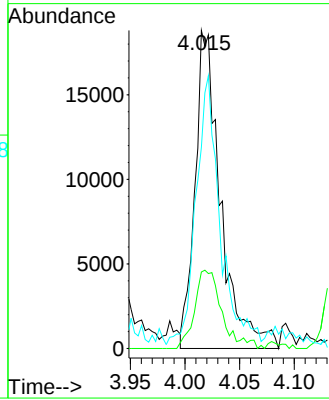
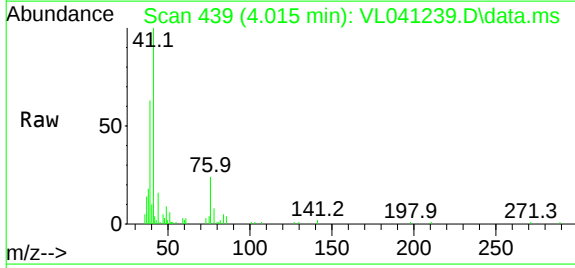
Tgt Ion: 84 Resp: 19749
Ion Ratio Lower Upper
84 100
49 162.5 130.4 195.6
51 30.7 38.0 57.0#
86 59.0 50.3 75.5





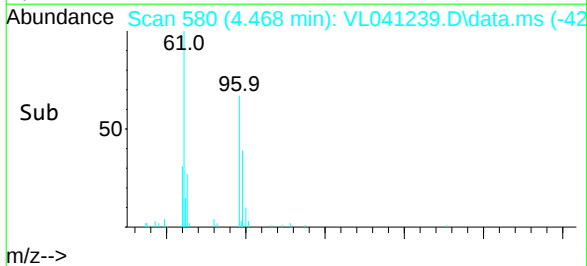
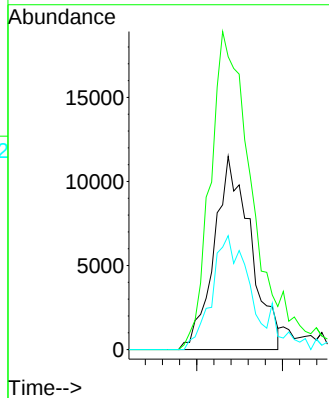
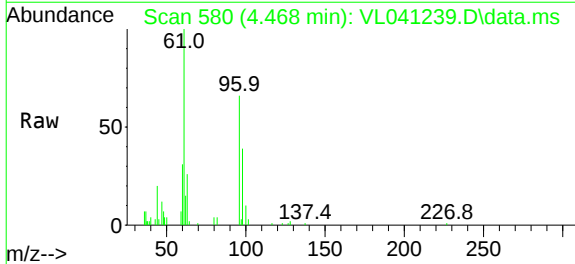
#21
 Allyl Chloride
 Concen: 0.496 ppbv m
 RT: 4.015 min Scan# 439
 Delta R.T. -0.000 min
 Lab File: VL041239.D
 Acq: 8 May 2024 11:56

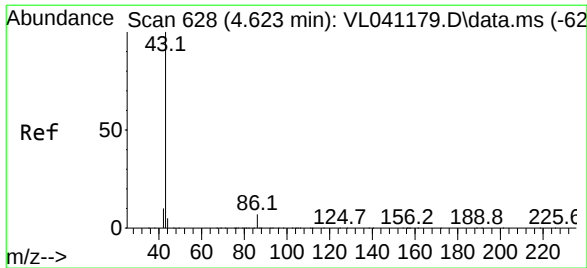
Tgt Ion:	41	Resp:	30582
Ion	Ratio	Lower	Upper
41	100		
76	26.0	23.7	35.5
39	88.4	64.7	97.1



#22
 trans-1,2-Dichloroethene
 Concen: 0.452 ppbv
 RT: 4.468 min Scan# 580
 Delta R.T. 0.006 min
 Lab File: VL041239.D
 Acq: 8 May 2024 11:56

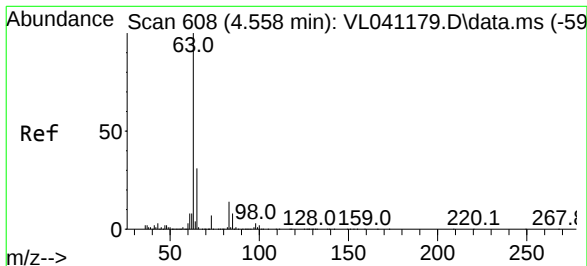
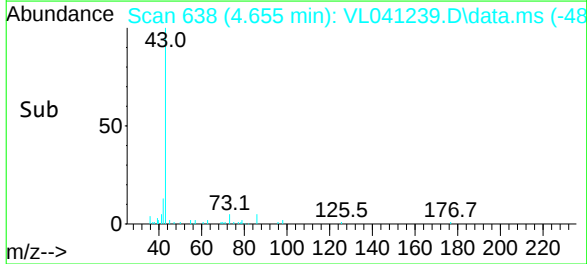
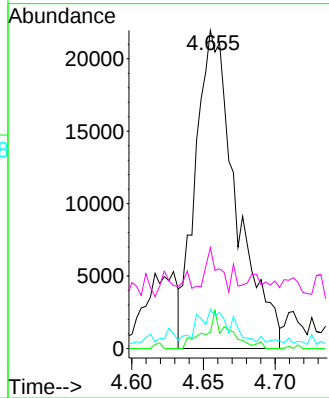
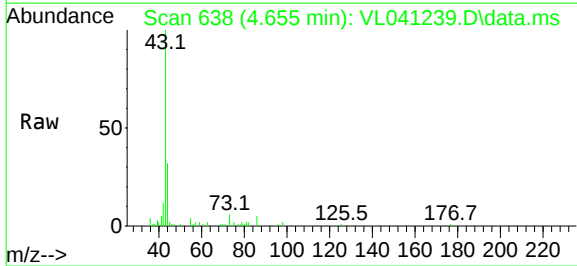
Tgt Ion:	96	Resp:	17089
Ion	Ratio	Lower	Upper
96	100		
61	151.6	137.6	206.4
98	59.0	50.6	76.0





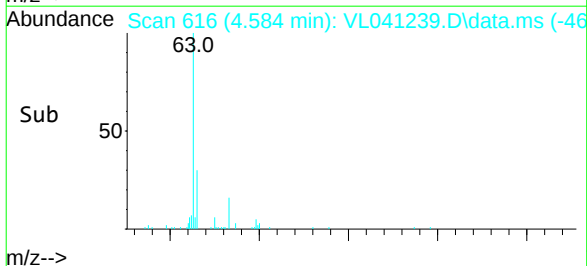
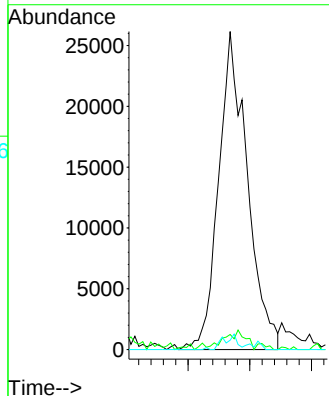
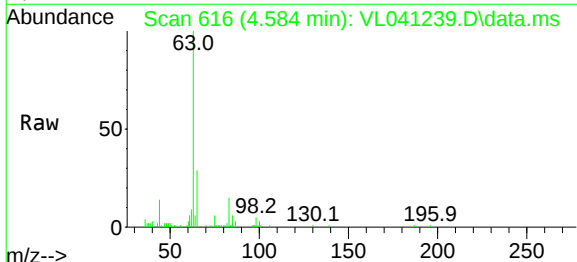
#23
 Vinyl Acetate
 Concen: 0.416 ppbv m
 RT: 4.655 min Scan# 638
 Delta R.T. 0.010 min
 Lab File: VL041239.D
 Acq: 8 May 2024 11:56

Tgt Ion	Ratio	Lower	Upper
43	100		
86	5.1	4.9	7.3
42	12.4	8.0	12.0
44	31.7	3.7	5.5

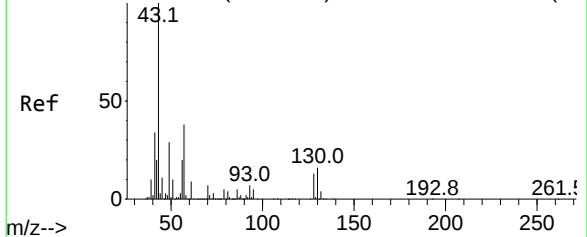


#24
 1,1-Dichloroethane
 Concen: 0.521 ppbv
 RT: 4.584 min Scan# 616
 Delta R.T. -0.000 min
 Lab File: VL041239.D
 Acq: 8 May 2024 11:56

Tgt Ion	Ratio	Lower	Upper
63	100		
98	4.7	1.6	4.8
100	2.9	1.1	3.5



Abundance Scan 808 (5.202 min): VL041179.D\data.ms (-79



#25

Ethyl Acetate

Concen: 0.426 ppbv

RT: 5.240 min Scan# 820

Delta R.T. 0.019 min

Lab File: VL041239.D

Acq: 8 May 2024 11:56

Tgt Ion: 43 Resp: 80493

Ion Ratio Lower Upper

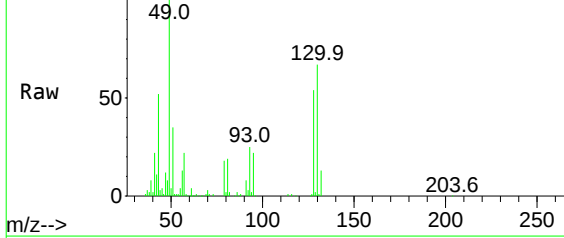
43 100

45 12.3 8.2 12.2#

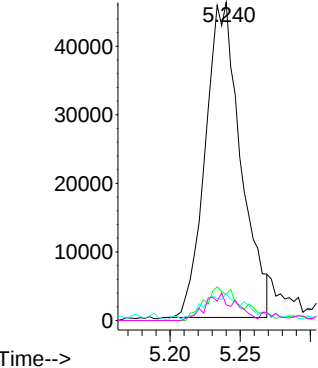
61 11.9 7.7 11.5#

70 8.5 5.8 8.6

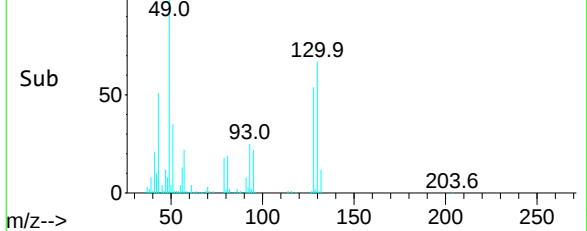
Abundance Scan 820 (5.240 min): VL041239.D\data.ms



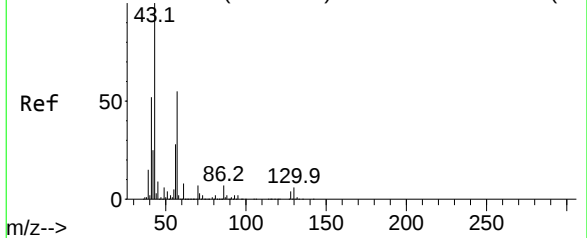
Abundance



Abundance Scan 820 (5.240 min): VL041239.D\data.ms (-65



Abundance Scan 810 (5.208 min): VL041179.D\data.ms (-79



#26

Hexane

Concen: 0.452 ppbv m

RT: 5.234 min Scan# 818

Delta R.T. 0.003 min

Lab File: VL041239.D

Acq: 8 May 2024 11:56

Tgt Ion: 57 Resp: 38109

Ion Ratio Lower Upper

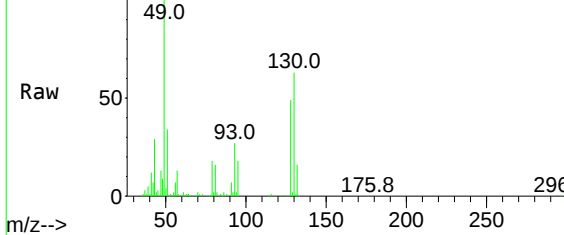
57 100

41 0.0 75.8 113.8#

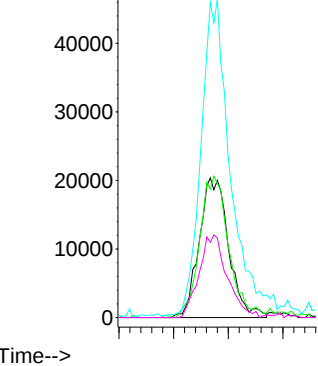
43 0.0 187.0 280.4#

56 0.0 42.7 64.1#

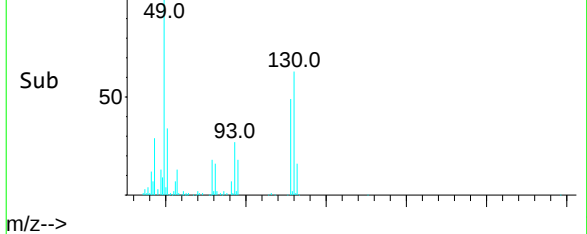
Abundance Scan 818 (5.234 min): VL041239.D\data.ms

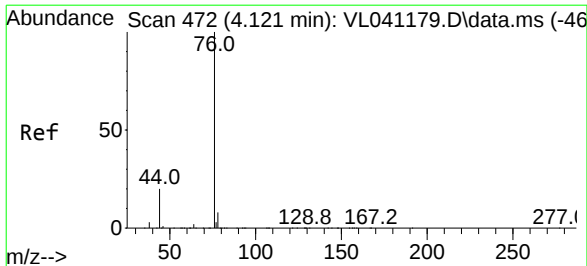


Abundance



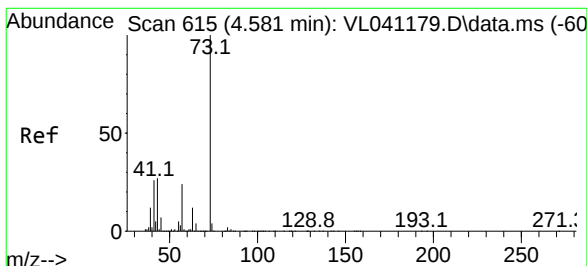
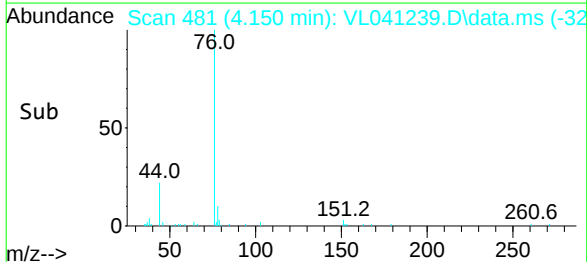
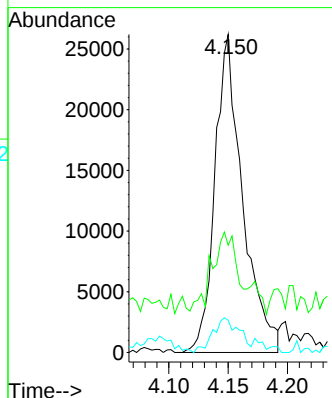
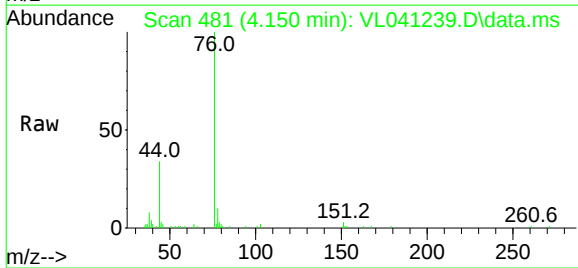
Abundance Scan 818 (5.234 min): VL041239.D\data.ms (-66





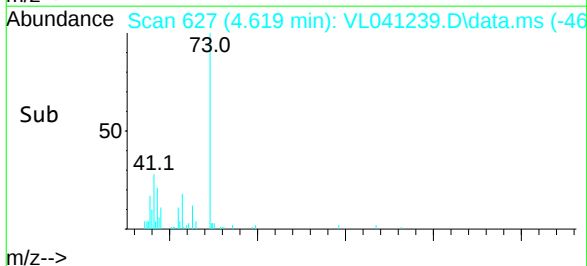
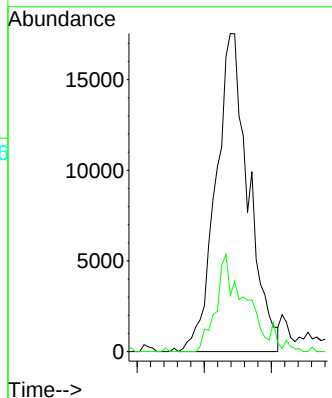
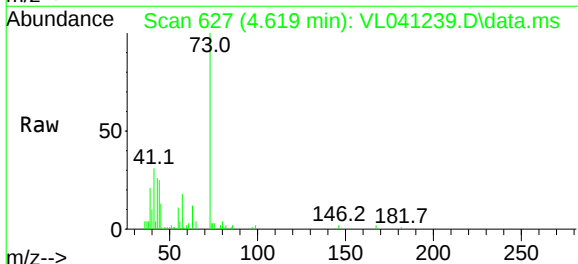
#27
Carbon Disulfide
Concen: 0.426 ppbv
RT: 4.150 min Scan# 481
Delta R.T. 0.010 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

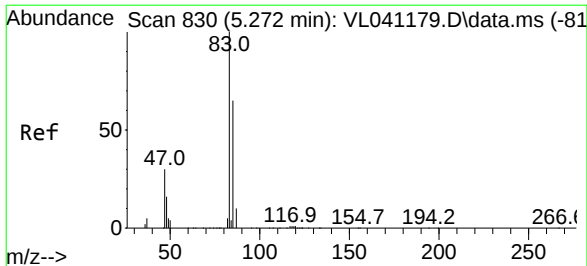
Tgt Ion	Ratio	Lower	Upper
76	100		
44	30.0	16.3	24.5#
78	13.0	7.3	10.9#



#28
Methyl tert-Butyl Ether
Concen: 0.441 ppbv
RT: 4.619 min Scan# 627
Delta R.T. 0.016 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

Tgt Ion	Ratio	Lower	Upper
73	100		
57	28.8	18.8	28.2#





#29

Chloroform

Concen: 0.537 ppbv

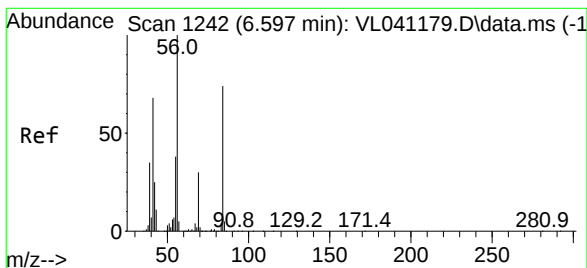
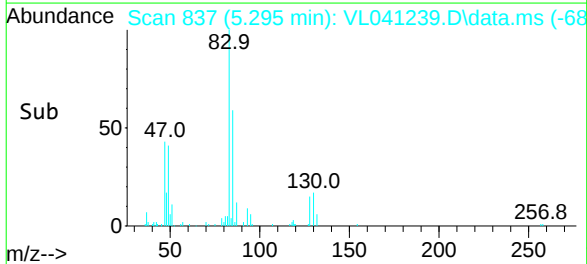
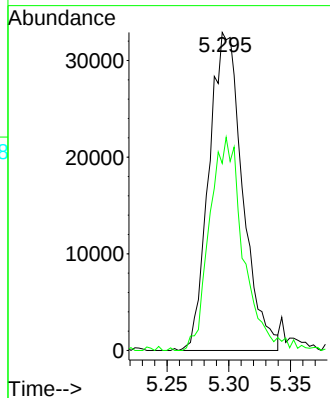
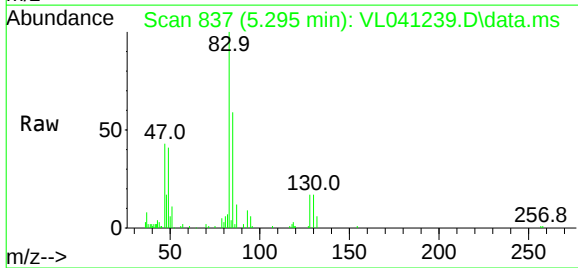
RT: 5.295 min Scan# 837

Delta R.T. -0.000 min

Lab File: VL041239.D

Acq: 8 May 2024 11:56

Tgt Ion	Ratio	Lower	Upper
83	100		
85	58.8	51.7	77.5



#30

Cyclohexane

Concen: 0.495 ppbv m

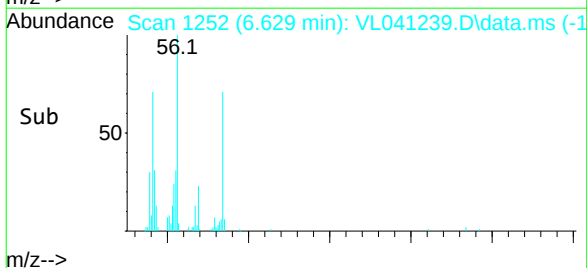
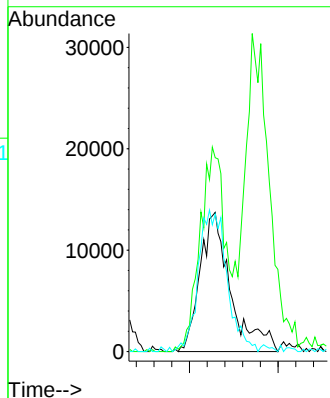
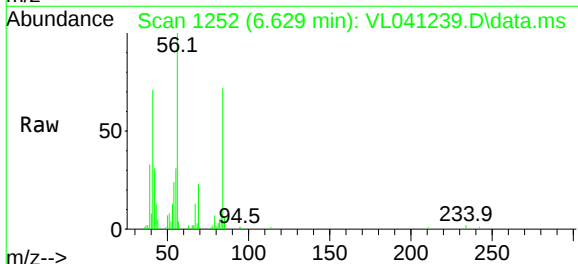
RT: 6.629 min Scan# 1252

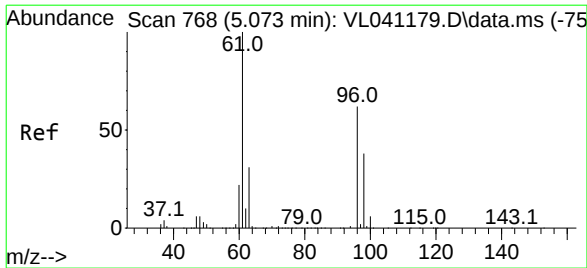
Delta R.T. 0.006 min

Lab File: VL041239.D

Acq: 8 May 2024 11:56

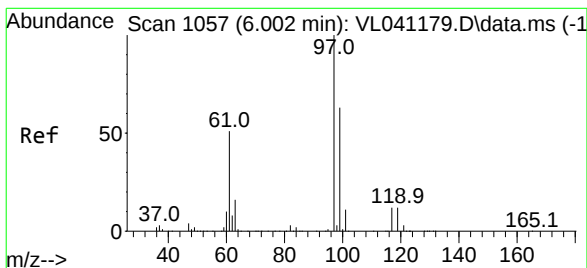
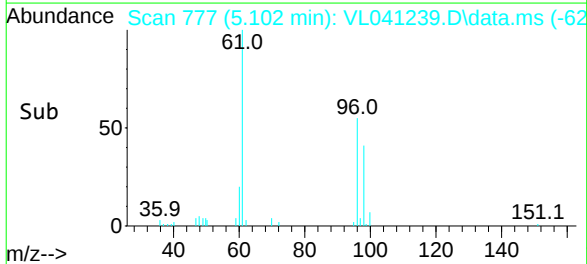
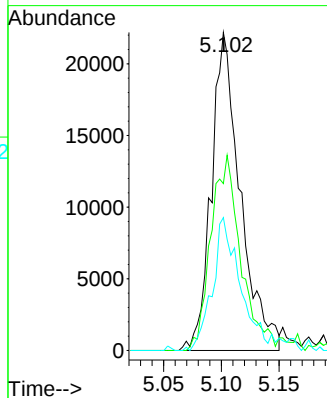
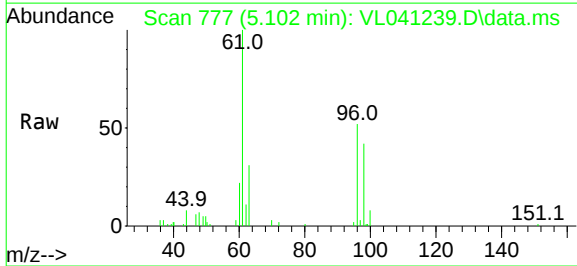
Tgt Ion	Ratio	Lower	Upper
84	100		
56	118.5	116.8	175.2
41	97.2	73.8	110.8





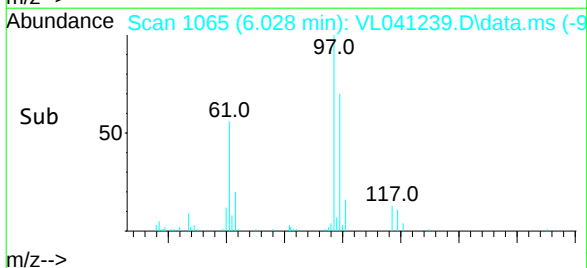
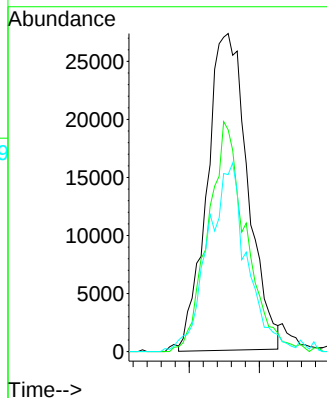
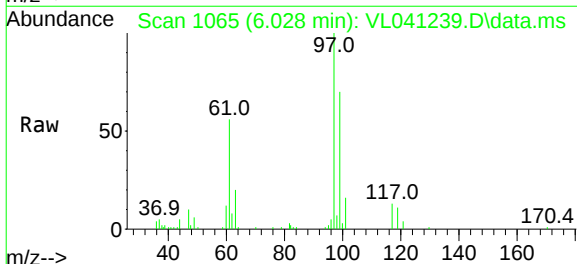
#31
 cis-1,2-Dichloroethene
 Concen: 0.490 ppbv m
 RT: 5.102 min Scan# 777
 Delta R.T. 0.006 min
 Lab File: VL041239.D
 Acq: 8 May 2024 11:56

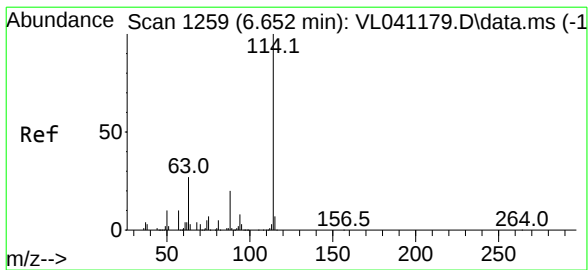
Tgt Ion	Ratio	Lower	Upper
61	100		
96	52.5	49.8	74.6
98	41.8	30.0	45.0



#32
 1,1,1-Trichloroethane
 Concen: 0.475 ppbv
 RT: 6.028 min Scan# 1065
 Delta R.T. 0.006 min
 Lab File: VL041239.D
 Acq: 8 May 2024 11:56

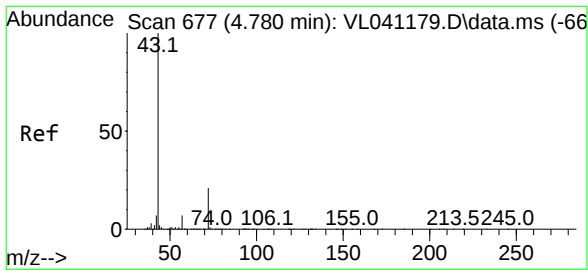
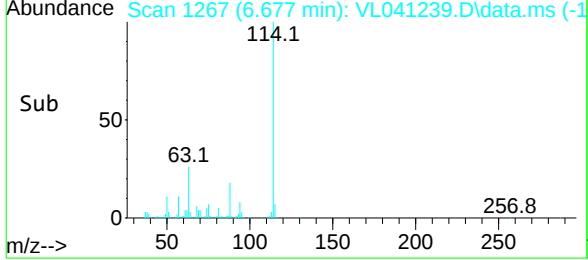
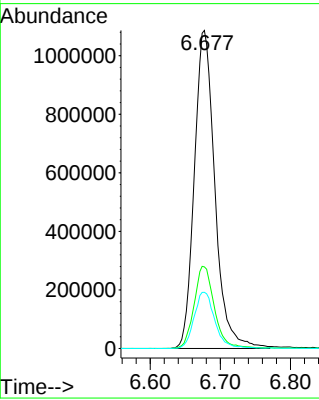
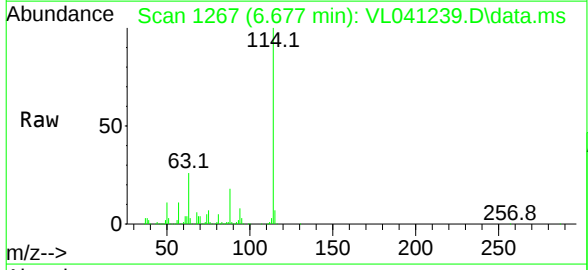
Tgt Ion	Ratio	Lower	Upper
97	100		
99	67.7	51.7	77.5
61	58.0	41.1	61.7





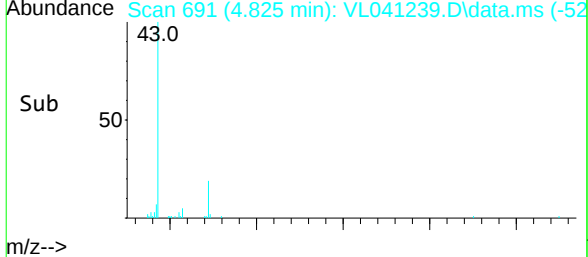
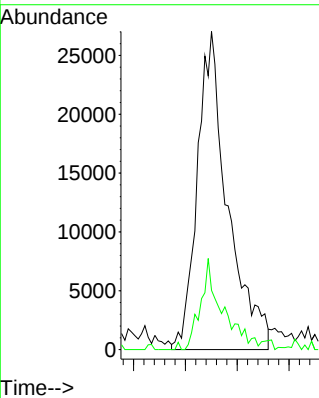
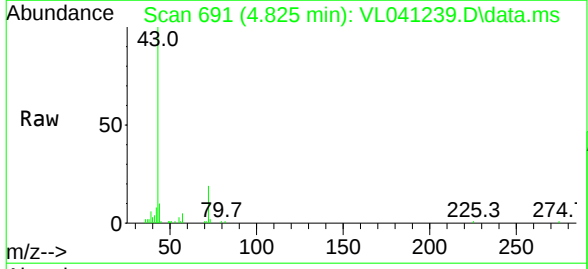
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.677 min Scan# 1267
Delta R.T. 0.003 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

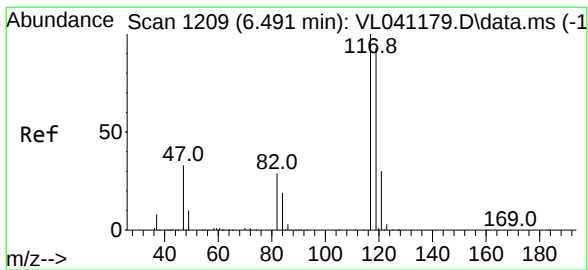
Tgt Ion:	114	Resp:	2212838
Ion	Ratio	Lower	Upper
114	100		
63	25.8	21.8	32.6
88	18.1	15.2	22.8



#34
2-Butanone
Concen: 0.489 ppbv m
RT: 4.825 min Scan# 691
Delta R.T. 0.022 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

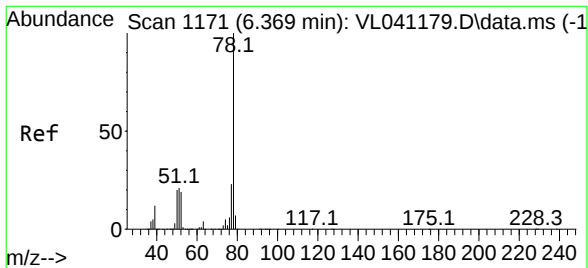
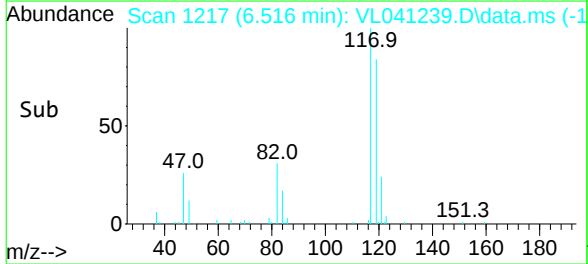
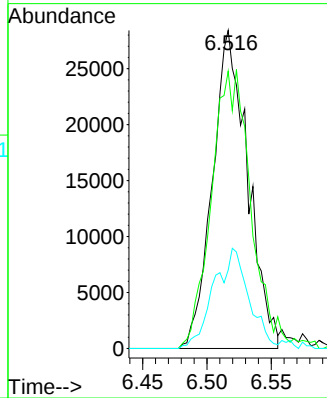
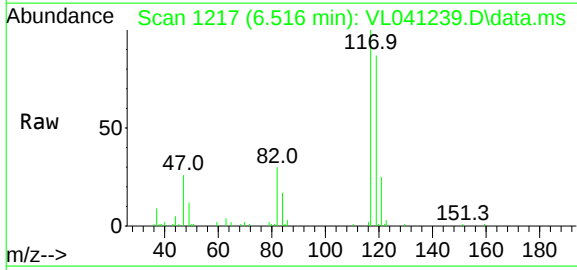
Tgt Ion:	43	Resp:	55030
Ion	Ratio	Lower	Upper
43	100		
72	22.6	17.3	25.9





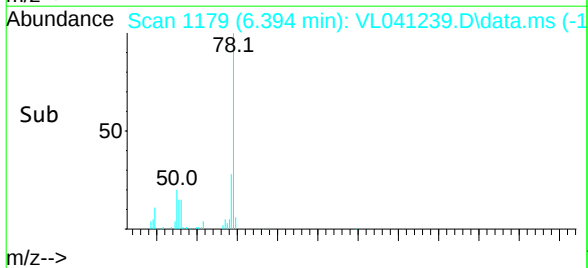
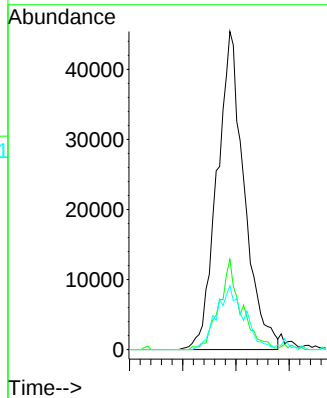
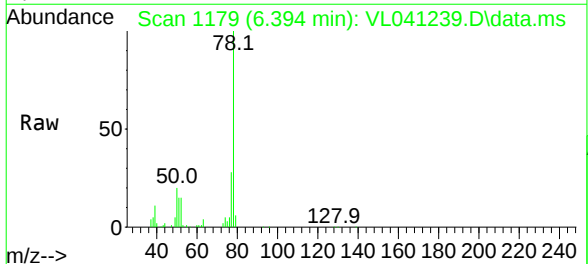
#35
Carbon Tetrachloride
Concen: 0.436 ppbv
RT: 6.516 min Scan# 1217
Delta R.T. 0.003 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

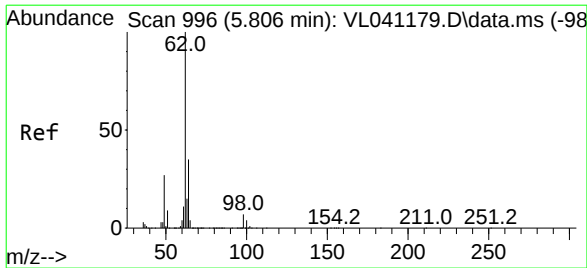
Tgt Ion	Ratio	Lower	Upper
117	100		
119	87.2	74.3	111.5
121	24.6	23.8	35.8



#36
Benzene
Concen: 0.432 ppbv
RT: 6.394 min Scan# 1179
Delta R.T. 0.003 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

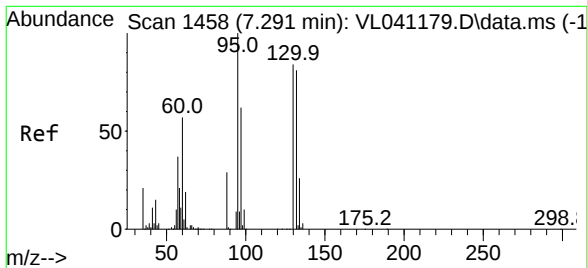
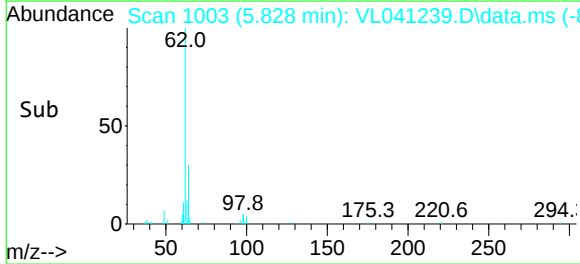
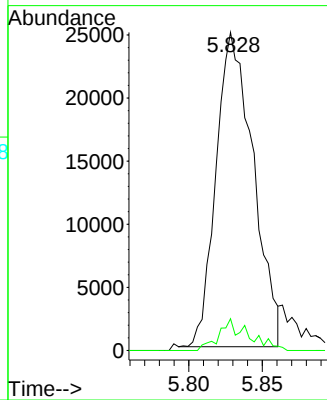
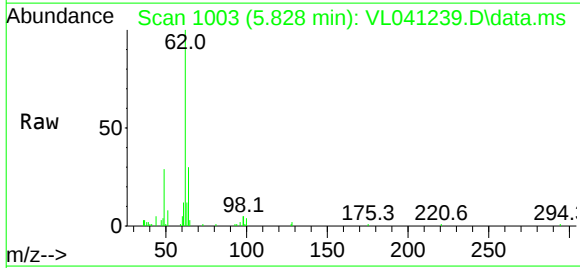
Tgt Ion	Ratio	Lower	Upper
78	100		
77	28.4	18.3	27.5#
50	20.1	15.9	23.9





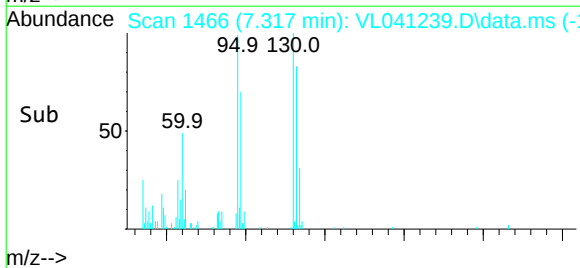
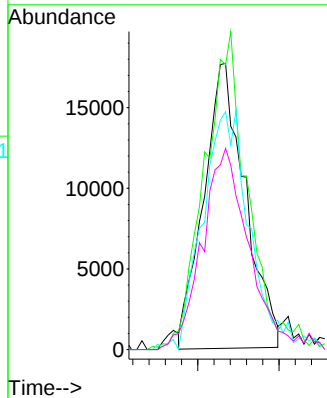
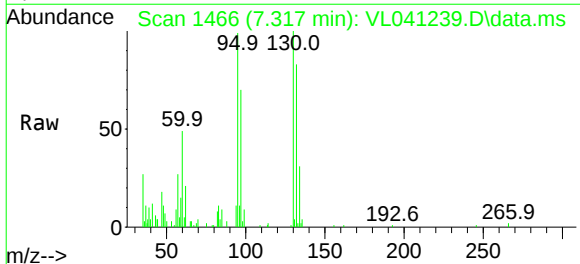
#37
1,2-Dichloroethane
Concen: 0.452 ppbv
RT: 5.828 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

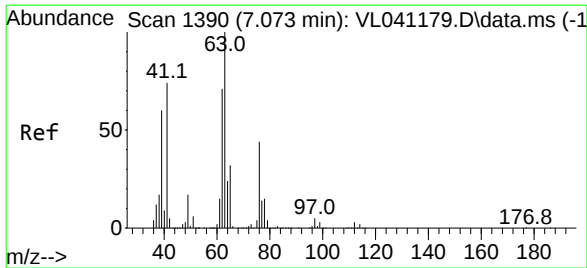
Tgt Ion: 62 Resp: 43808
Ion Ratio Lower Upper
62 100
98 8.0 5.0 7.4#



#38
Trichloroethene
Concen: 0.454 ppbv
RT: 7.317 min Scan# 1466
Delta R.T. 0.006 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

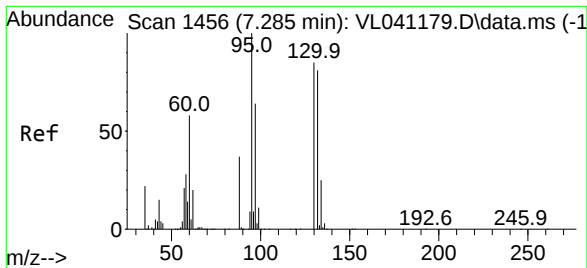
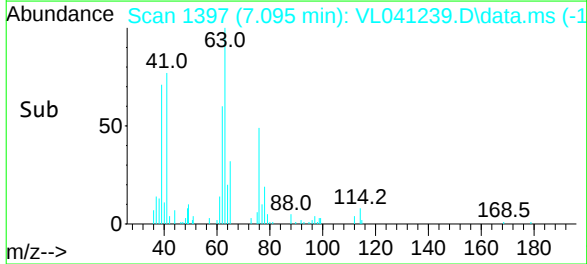
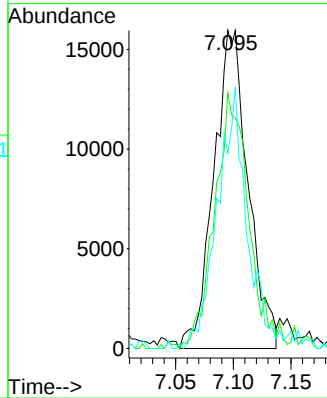
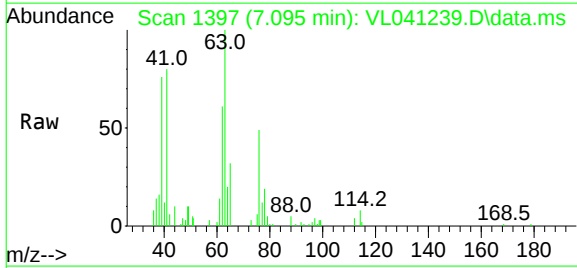
Tgt Ion:130 Resp: 31413
Ion Ratio Lower Upper
130 100
95 101.0 95.0 142.6
132 90.2 77.0 115.4
97 70.3 59.1 88.7





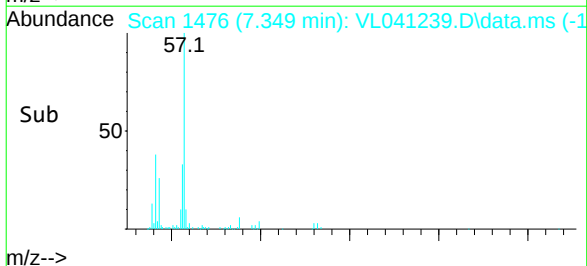
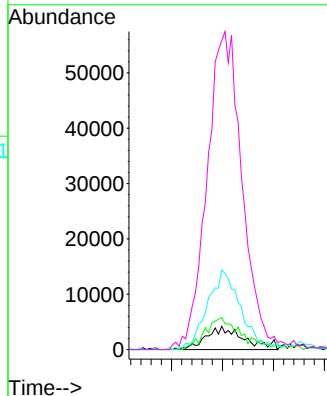
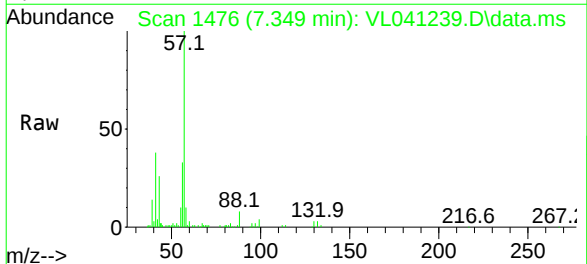
#39
1,2-Dichloropropane
Concen: 0.461 ppbv m
RT: 7.095 min Scan# 1397
Delta R.T. 0.003 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

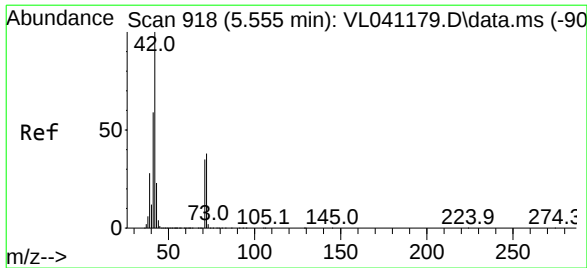
Tgt Ion	Ratio	Lower	Upper
63	100		
41	80.3	59.4	89.0
62	61.4	56.8	85.2



#40
1,4-Dioxane
Concen: 0.410 ppbv m
RT: 7.349 min Scan# 1476
Delta R.T. 0.048 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

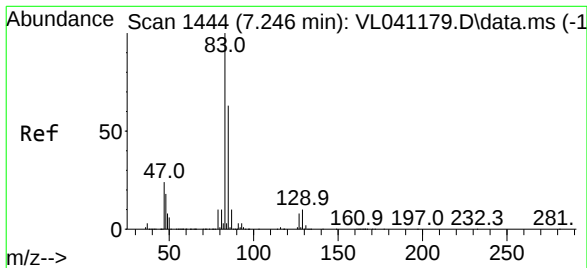
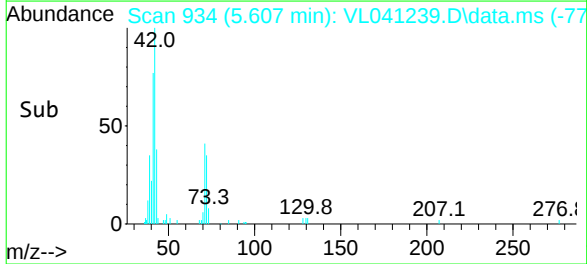
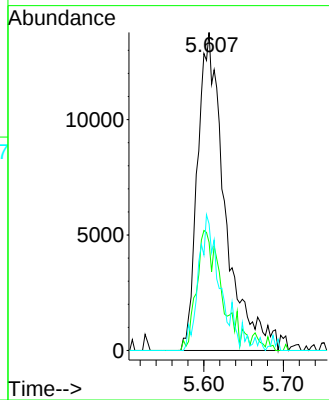
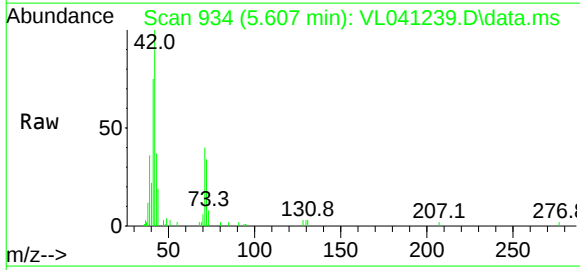
Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	106.1	159.1#
43	0.0	219.8	329.6#
57	0.0	936.0	1404.0#





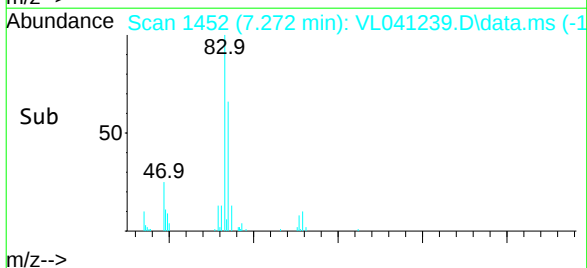
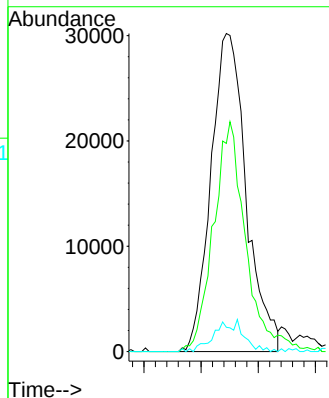
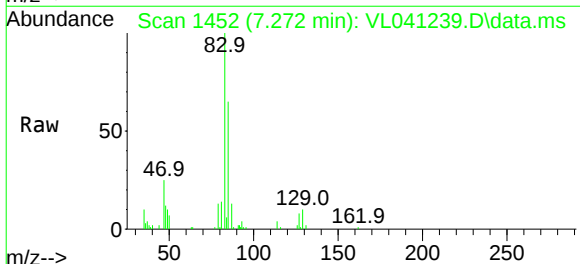
#41
Tetrahydrofuran
Concen: 0.405 ppbv m
RT: 5.607 min Scan# 934
Delta R.T. 0.029 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

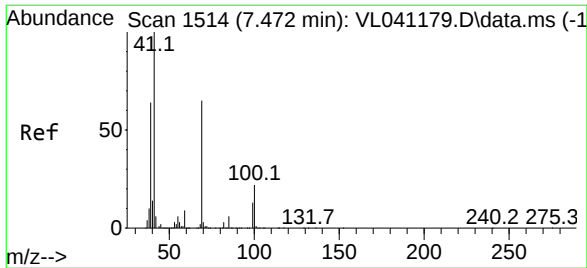
Tgt Ion	Ratio	Lower	Upper
42	100		
72	37.2	29.4	44.0
71	34.9	29.1	43.7



#42
Bromodichloromethane
Concen: 0.466 ppbv
RT: 7.272 min Scan# 1452
Delta R.T. 0.003 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

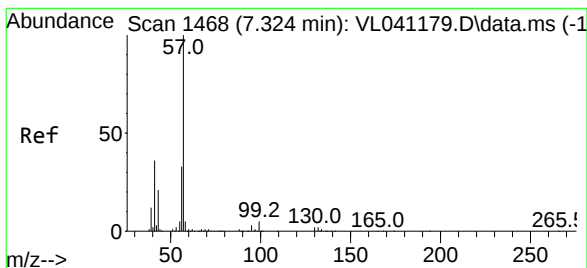
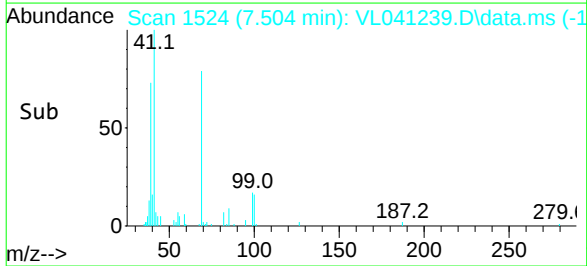
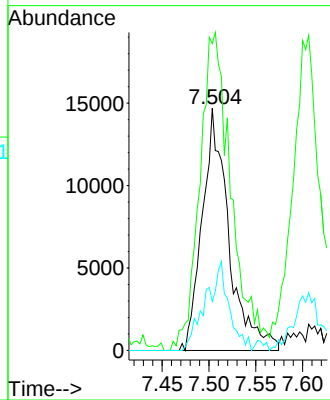
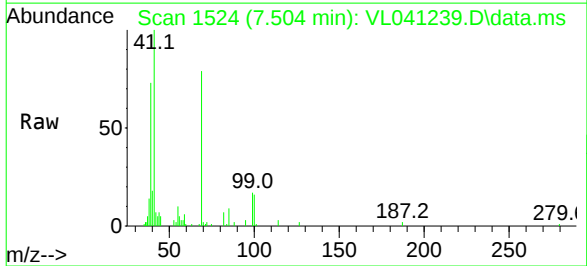
Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.5	50.6	75.8
127	7.6	6.2	9.4





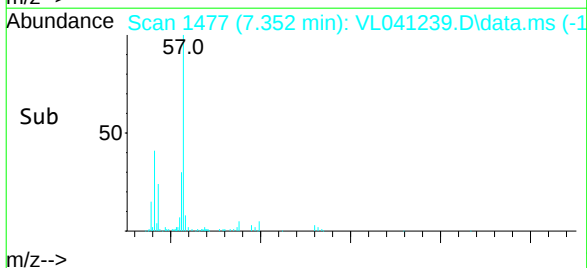
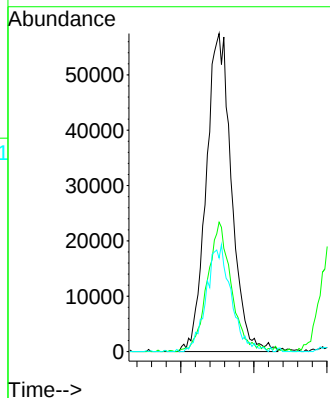
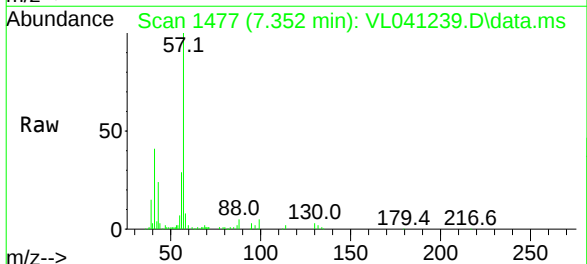
#43
Methyl Methacrylate
Concen: 0.387 ppbv m
RT: 7.504 min Scan# 1524
Delta R.T. 0.010 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

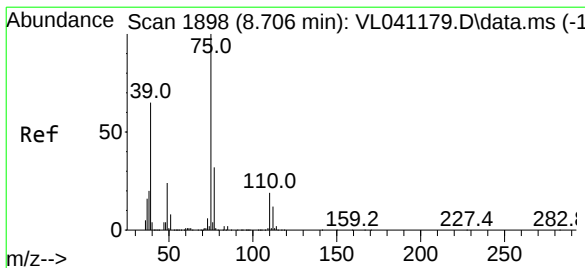
Tgt Ion	Ratio	Lower	Upper
69	100		
41	153.8	125.2	187.8
100	34.0	26.7	40.1



#44
2,2,4-Trimethylpentane
Concen: 0.434 ppbv m
RT: 7.352 min Scan# 1477
Delta R.T. 0.006 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

Tgt Ion	Ratio	Lower	Upper
57	100		
41	38.6	29.5	44.3
56	0.0	25.3	37.9#





#45

t-1,3-Dichloropropene

Concen: 0.318 ppbv m

RT: 8.741 min Scan# 1909

Delta R.T. 0.010 min

Lab File: VL041239.D

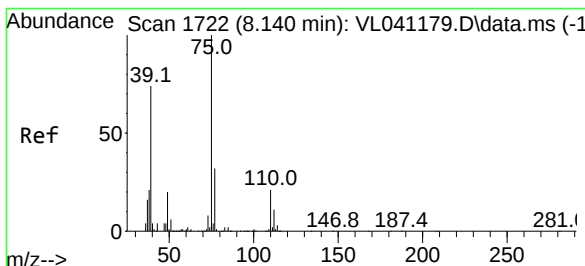
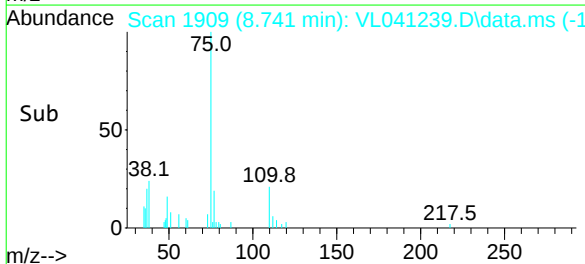
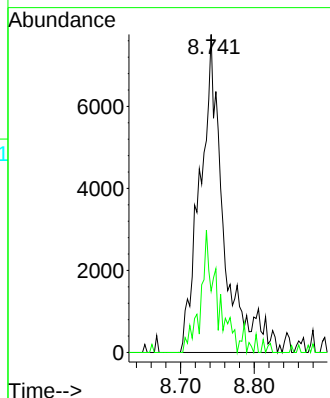
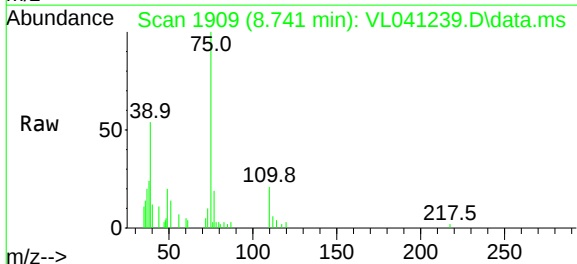
Acq: 8 May 2024 11:56

Tgt Ion: 75 Resp: 17300

Ion Ratio Lower Upper

75 100

77 19.3 25.6 38.4#



#46

cis-1,3-Dichloropropene

Concen: 0.371 ppbv m

RT: 8.166 min Scan# 1730

Delta R.T. 0.003 min

Lab File: VL041239.D

Acq: 8 May 2024 11:56

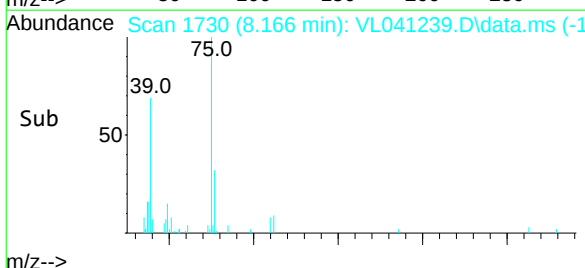
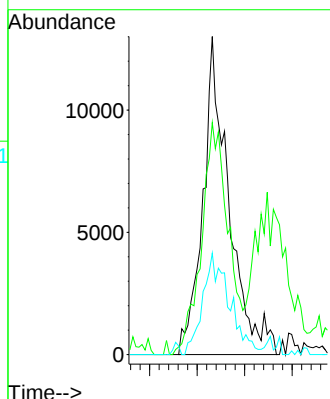
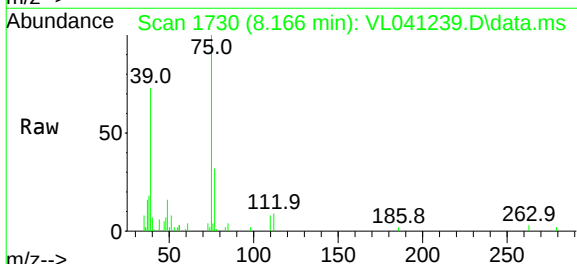
Tgt Ion: 75 Resp: 24707

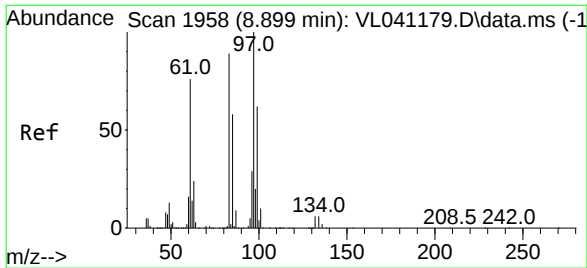
Ion Ratio Lower Upper

75 100

39 72.9 59.4 89.2

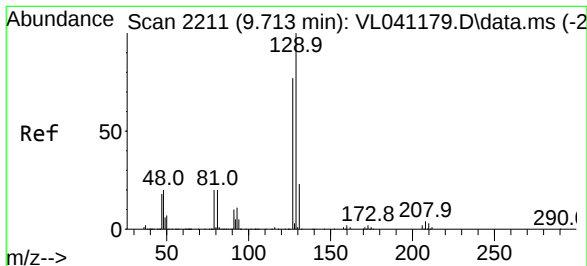
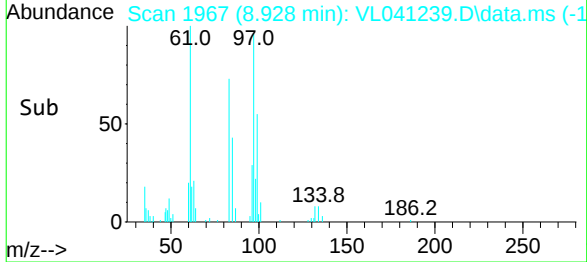
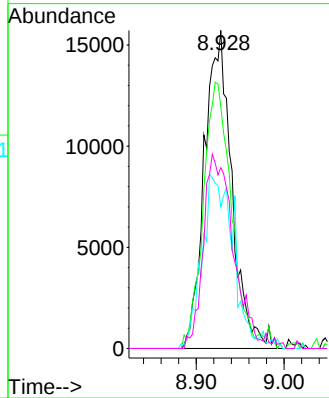
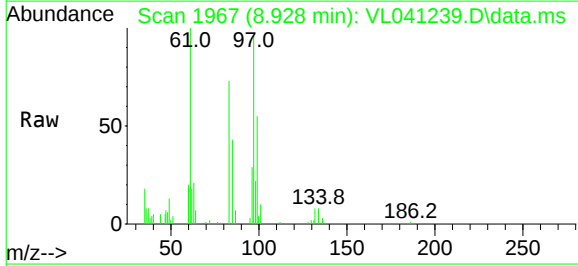
77 31.9 25.9 38.9





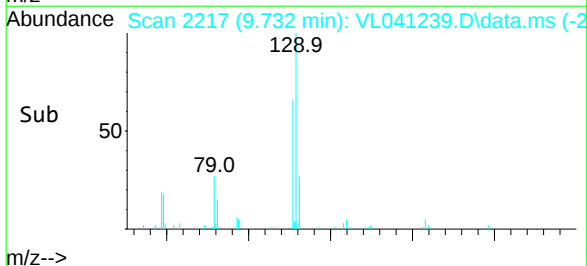
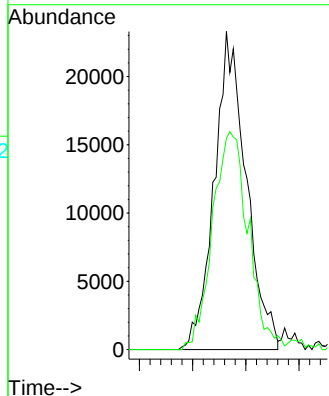
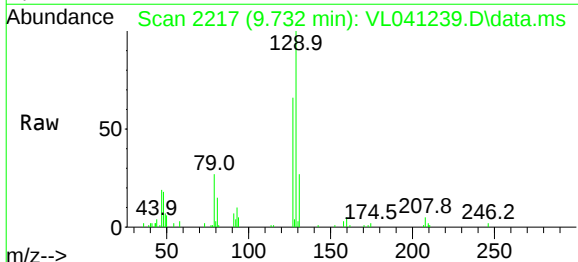
#47
1,1,2-Trichloroethane
Concen: 0.474 ppbv m
RT: 8.928 min Scan# 1967
Delta R.T. 0.006 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

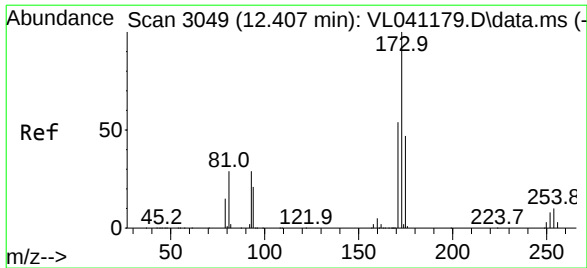
Tgt Ion	97	Resp	33955
Ion	Ratio	Lower	Upper
97	100		
83	76.0	71.2	106.8
85	44.5	46.0	69.0#
99	56.8	49.7	74.5



#48
Dibromochloromethane
Concen: 0.425 ppbv
RT: 9.732 min Scan# 2217
Delta R.T. -0.000 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

Tgt Ion	129	Resp	48460
Ion	Ratio	Lower	Upper
129	100		
127	78.7	39.1	117.5





#49

Bromoform

Concen: 0.366 ppbv

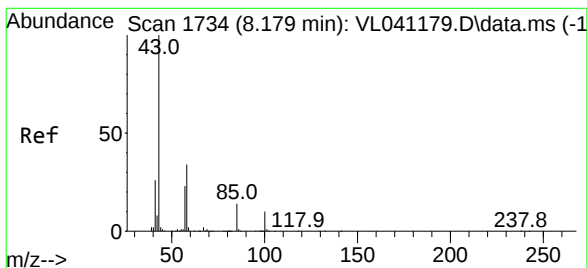
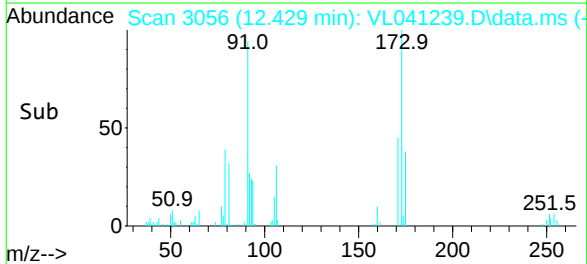
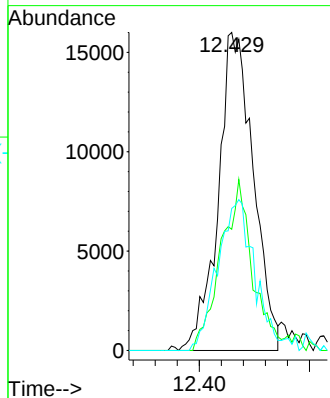
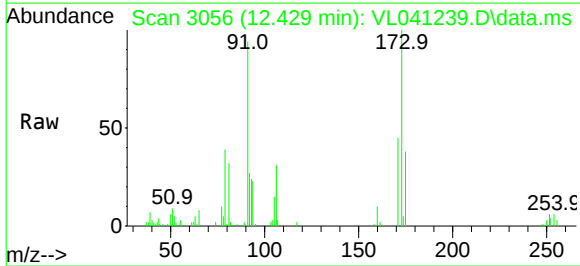
RT: 12.429 min Scan# 3056

Delta R.T. -0.000 min

Lab File: VL041239.D

Acq: 8 May 2024 11:56

Tgt Ion:	173	Resp:	35499
Ion Ratio	Lower	Upper	
173	100		
175	50.8	39.8	59.8
171	50.7	41.8	62.8



#50

4-Methyl-2-Pentanone

Concen: 0.407 ppbv m

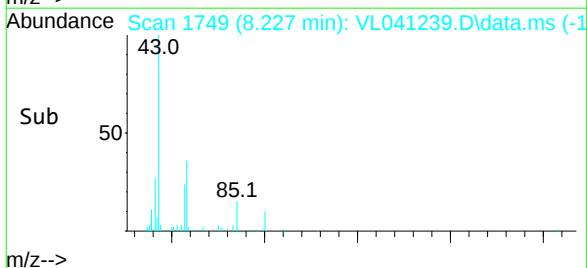
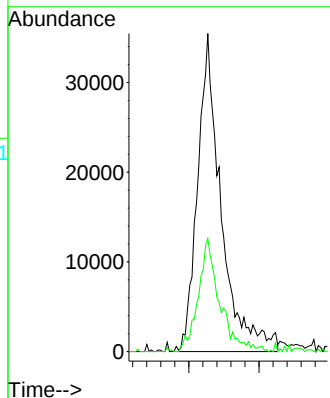
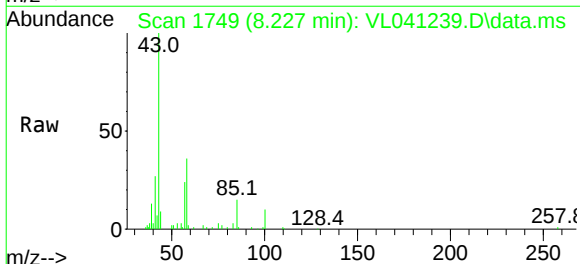
RT: 8.227 min Scan# 1749

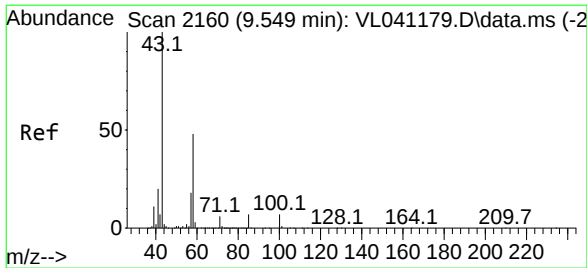
Delta R.T. 0.026 min

Lab File: VL041239.D

Acq: 8 May 2024 11:56

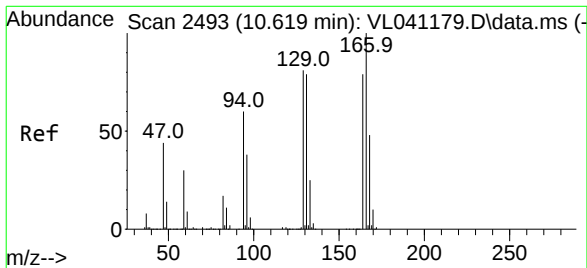
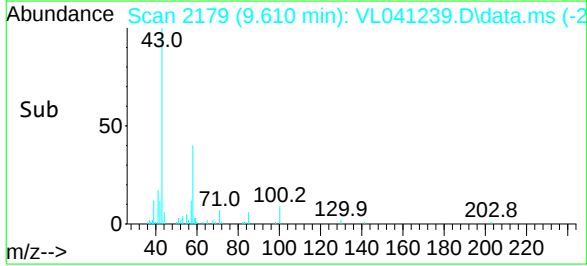
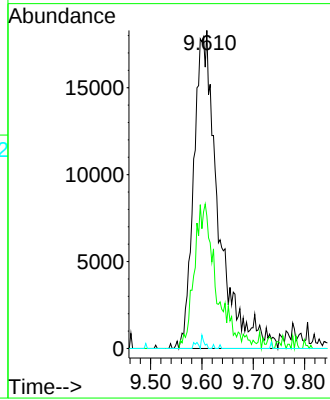
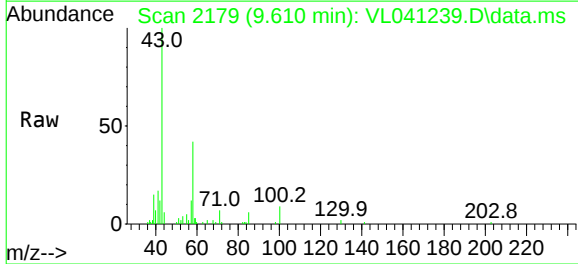
Tgt Ion:	43	Resp:	82303
Ion Ratio	Lower	Upper	
43	100		
58	32.7	27.7	41.5





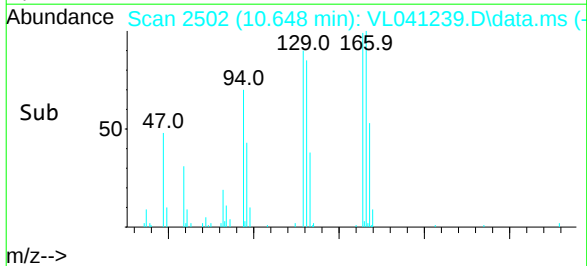
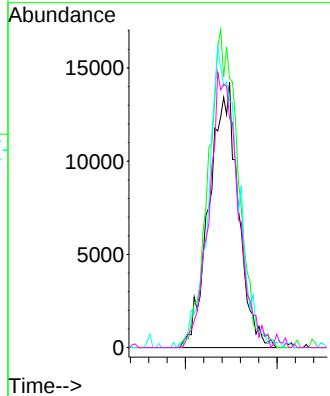
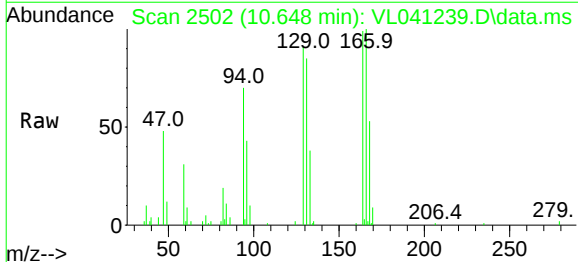
#51
2-Hexanone
Concen: 0.405 ppbv m
RT: 9.610 min Scan# 2179
Delta R.T. 0.042 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

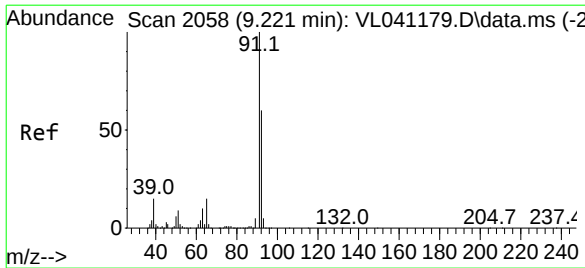
Tgt Ion: 43 Resp: 60790
Ion Ratio Lower Upper
43 100
58 0.0 38.4 57.6#
98 1.0 0.0 0.0#



#52
Tetrachloroethene
Concen: 0.477 ppbv m
RT: 10.648 min Scan# 2502
Delta R.T. 0.013 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

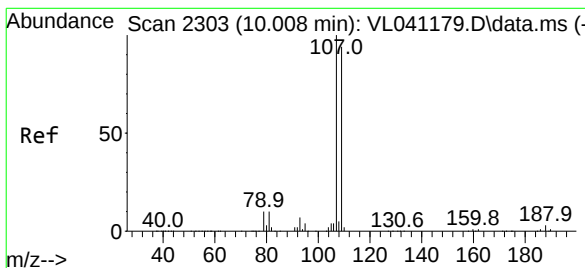
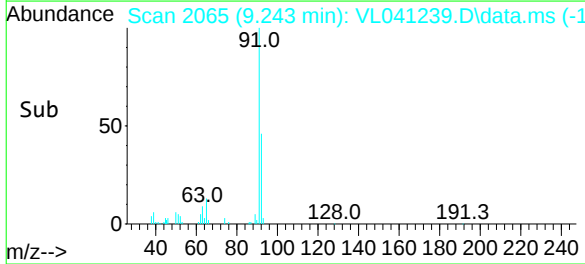
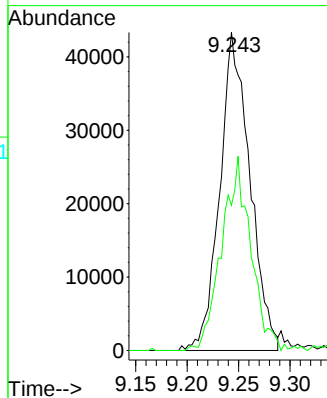
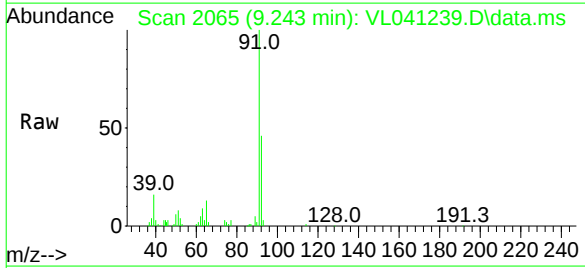
Tgt Ion: 164 Resp: 31109
Ion Ratio Lower Upper
164 100
166 101.5 101.1 151.7
129 92.7 81.7 122.5
131 86.3 80.4 120.6





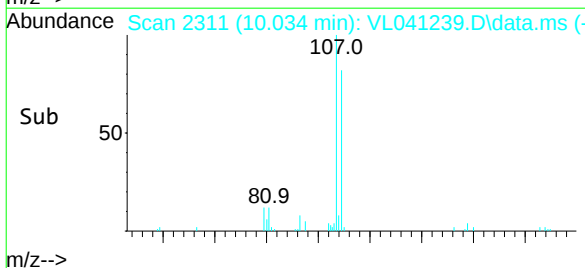
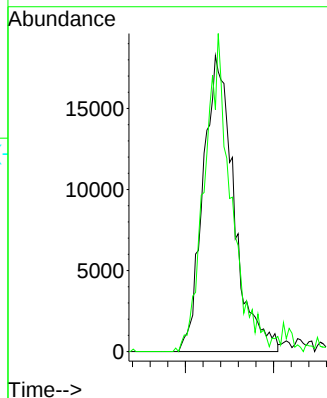
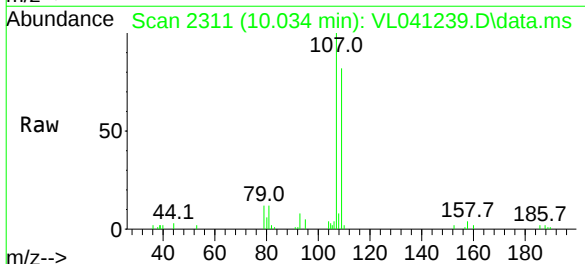
#53
Toluene
Concen: 0.409 ppbv
RT: 9.243 min Scan# 2065
Delta R.T. 0.003 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

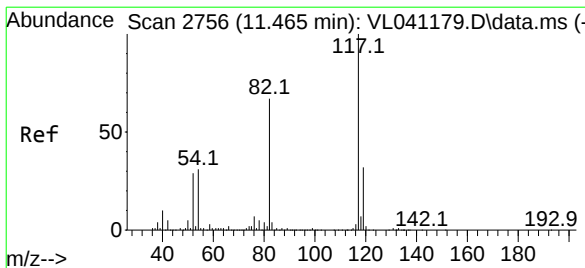
Tgt Ion: 91 Resp: 88002
Ion Ratio Lower Upper
91 100
92 59.4 48.2 72.4



#54
1,2-Dibromoethane
Concen: 0.457 ppbv
RT: 10.034 min Scan# 2311
Delta R.T. 0.003 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

Tgt Ion: 107 Resp: 44295
Ion Ratio Lower Upper
107 100
109 81.8 75.2 112.8





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.491 min Scan# 2764

Delta R.T. 0.003 min

Lab File: VL041239.D

Acq: 8 May 2024 11:56

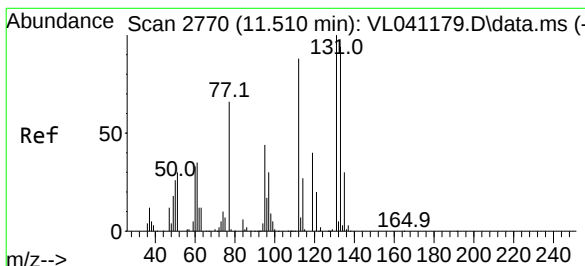
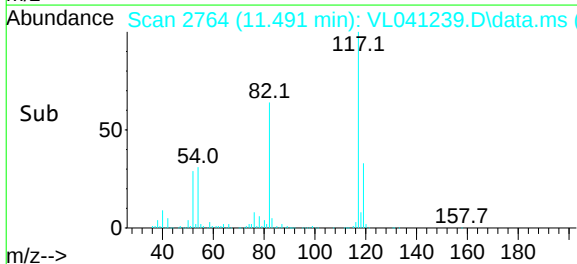
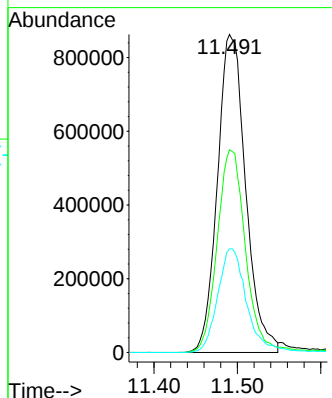
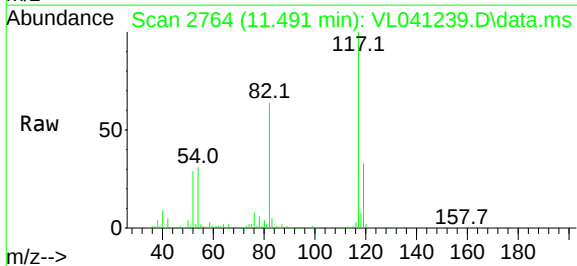
Tgt Ion:117 Resp: 2031753

Ion Ratio Lower Upper

117 100

82 65.2 53.6 80.4

119 33.9 27.2 40.8



#56

1,1,1,2-Tetrachloroethane

Concen: 0.416 ppbv

RT: 11.536 min Scan# 2778

Delta R.T. 0.006 min

Lab File: VL041239.D

Acq: 8 May 2024 11:56

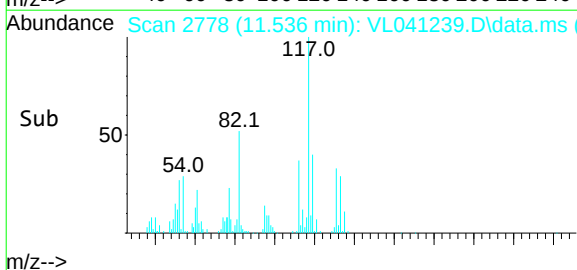
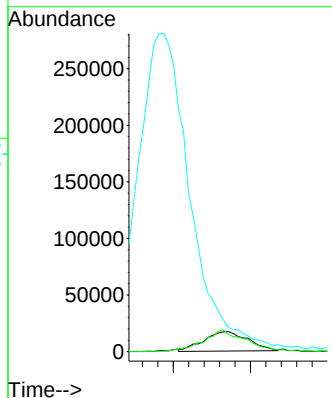
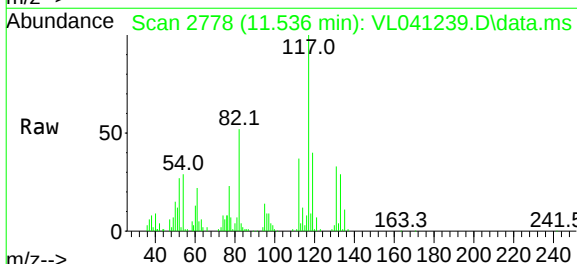
Tgt Ion:131 Resp: 34232

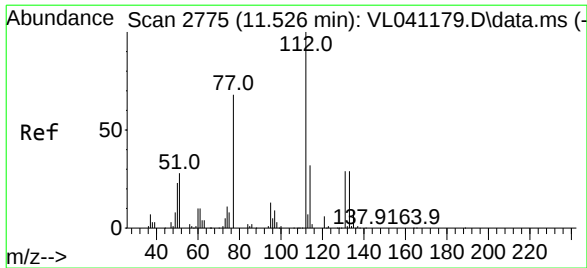
Ion Ratio Lower Upper

131 100

133 109.7 76.3 114.5

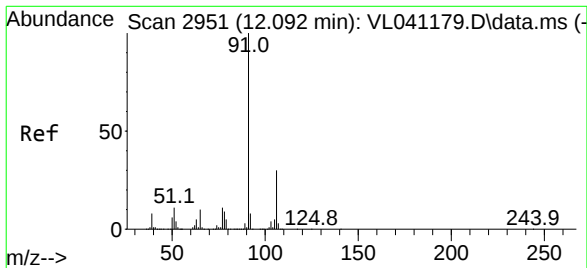
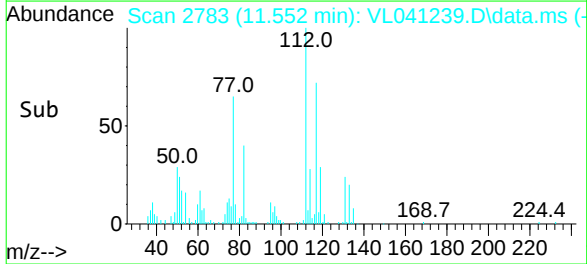
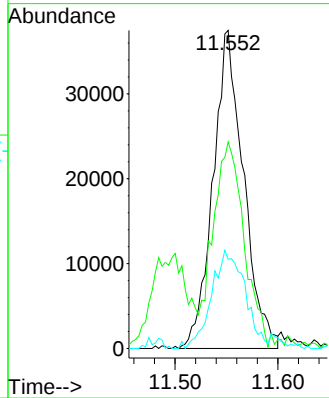
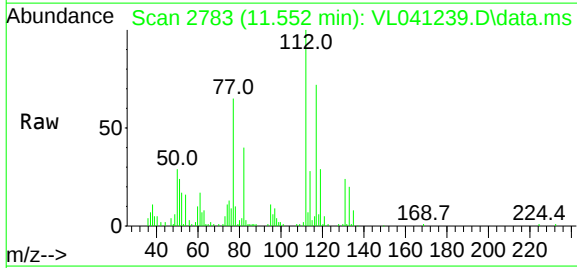
119 0.0 49.4 74.2#





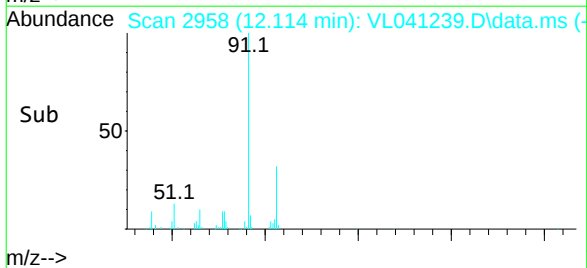
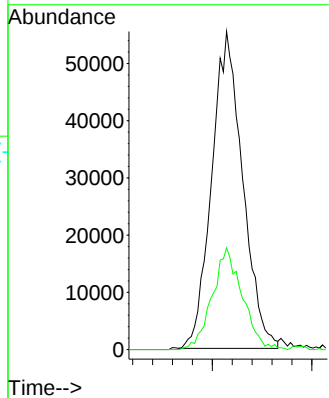
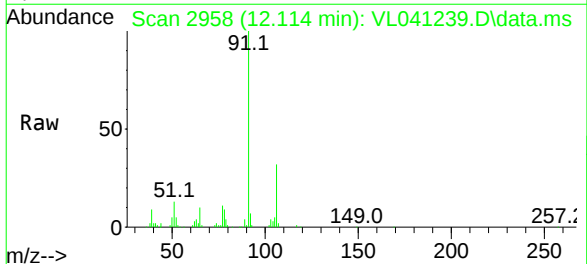
#57
Chlorobenzene
Concen: 0.518 ppbv
RT: 11.552 min Scan# 2783
Delta R.T. 0.003 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

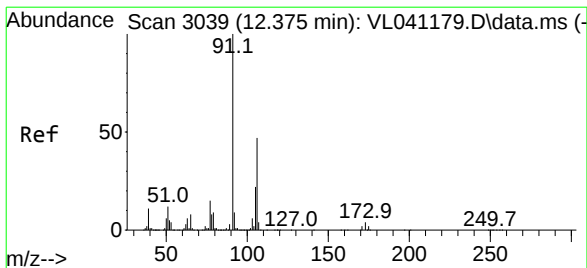
Tgt Ion:	112	Resp:	77118
Ion	Ratio	Lower	Upper
112	100		
77	62.2	54.9	82.3
114	28.0	28.7	35.1



#58
Ethyl Benzene
Concen: 0.429 ppbv
RT: 12.114 min Scan# 2958
Delta R.T. 0.003 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

Tgt Ion:	91	Resp:	119605
Ion	Ratio	Lower	Upper
91	100		
106	32.1	24.3	36.5





#59

m/p-Xylene

Concen: 0.894 ppbv m

RT: 12.397 min Scan# 3046

Delta R.T. 0.006 min

Lab File: VL041239.D

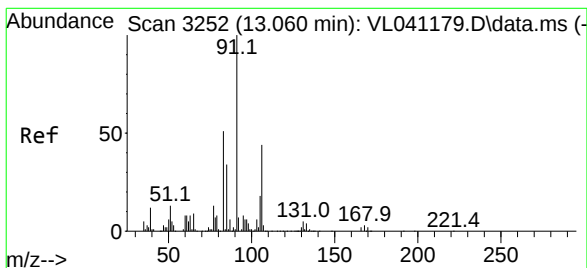
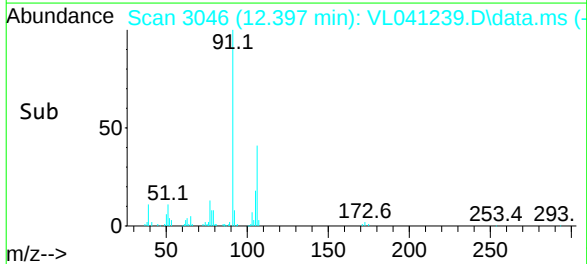
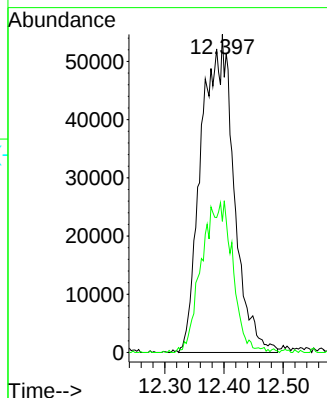
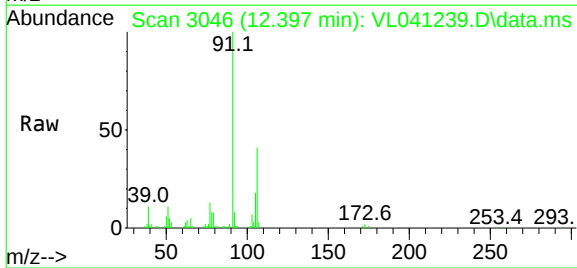
Acq: 8 May 2024 11:56

Tgt Ion: 91 Resp: 209274

Ion Ratio Lower Upper

91 100

106 0.0 35.7 53.5#



#60

o-Xylene

Concen: 0.476 ppbv m

RT: 13.085 min Scan# 3260

Delta R.T. 0.006 min

Lab File: VL041239.D

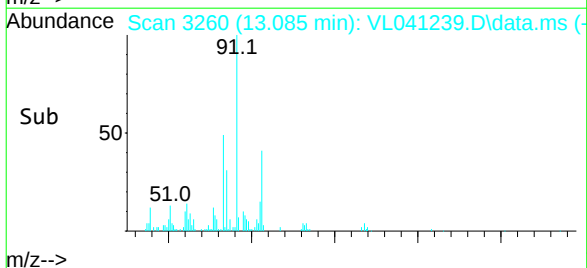
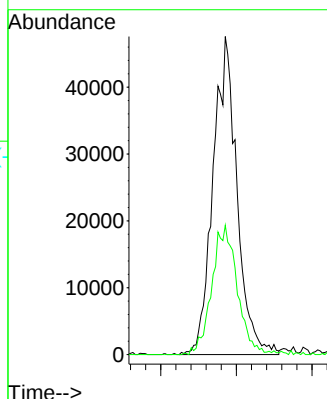
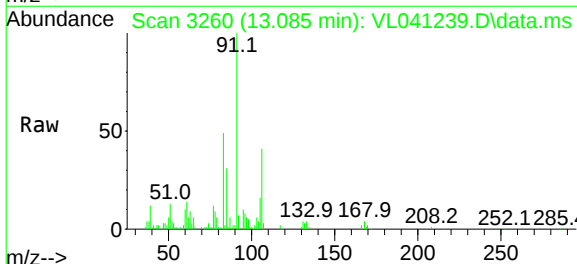
Acq: 8 May 2024 11:56

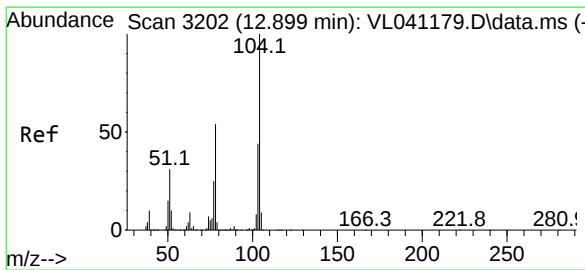
Tgt Ion: 91 Resp: 104445

Ion Ratio Lower Upper

91 100

106 43.2 22.4 67.3





#61

Styrene

Concen: 0.411 ppbv m

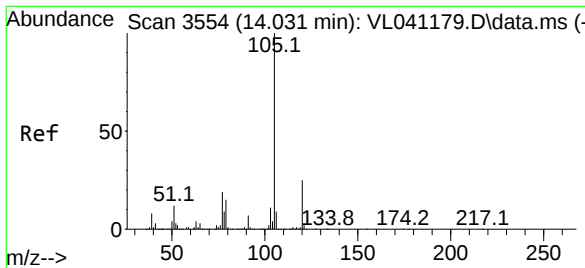
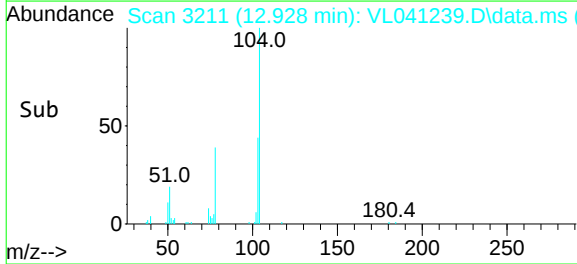
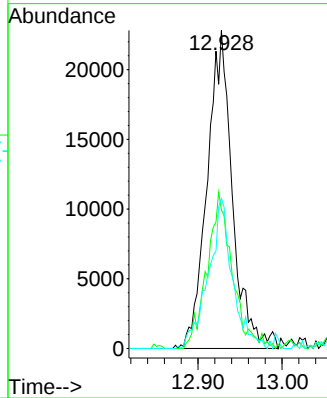
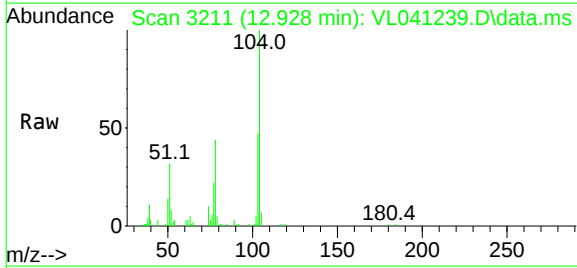
RT: 12.928 min Scan# 3211

Delta R.T. 0.010 min

Lab File: VL041239.D

Acq: 8 May 2024 11:56

Tgt Ion:	104	Resp:	47677
Ion	Ratio	Lower	Upper
104	100		
78	48.8	42.6	63.8
103	44.7	38.4	57.6



#62

Isopropylbenzene

Concen: 0.475 ppbv

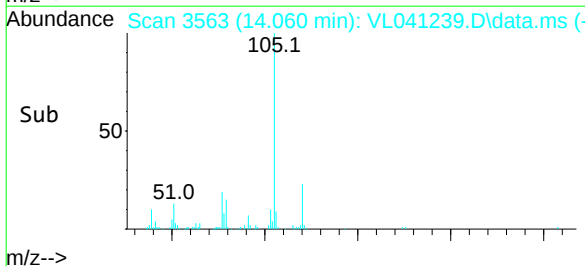
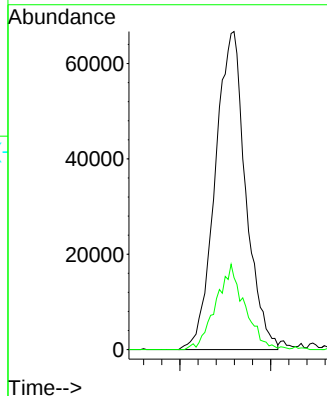
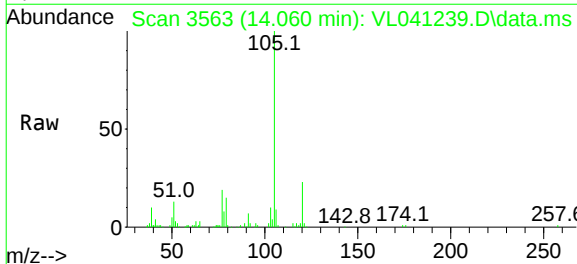
RT: 14.060 min Scan# 3563

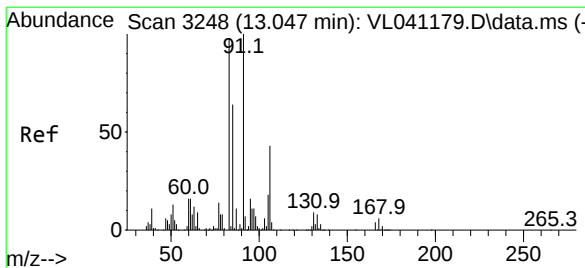
Delta R.T. 0.010 min

Lab File: VL041239.D

Acq: 8 May 2024 11:56

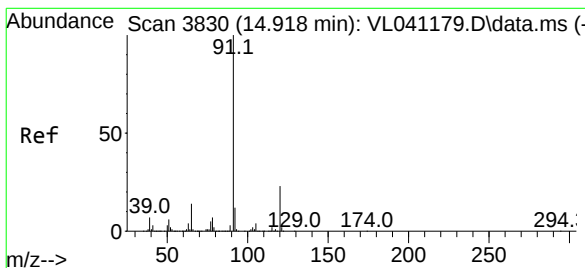
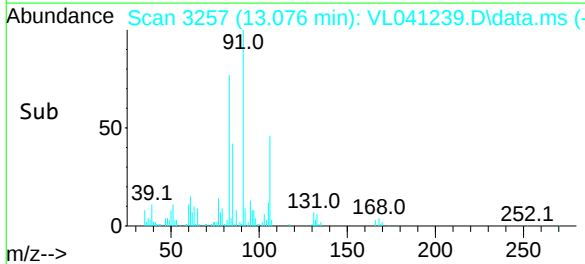
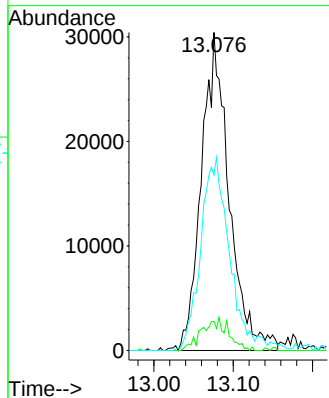
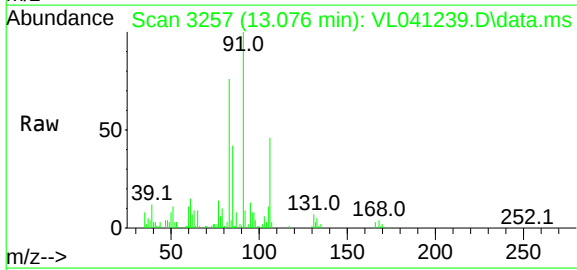
Tgt Ion:	105	Resp:	155892
Ion	Ratio	Lower	Upper
105	100		
120	25.6	20.2	30.2





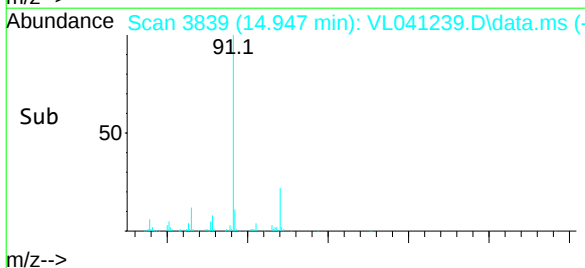
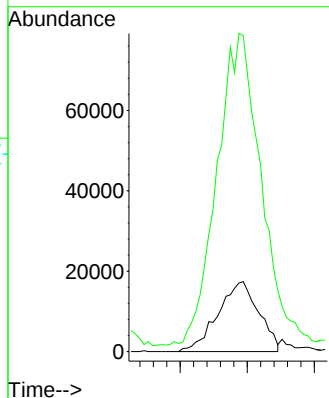
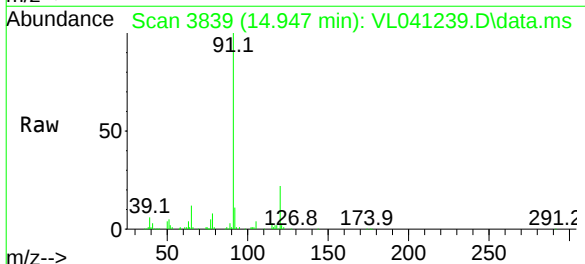
#63
1,1,2,2-Tetrachloroethane
Concen: 0.490 ppbv m
RT: 13.076 min Scan# 3257
Delta R.T. 0.010 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

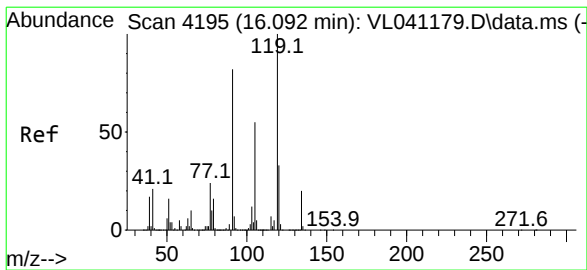
Tgt Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.5	13.5#
85	0.0	32.7	98.1#



#64
n-propylbenzene
Concen: 0.450 ppbv
RT: 14.947 min Scan# 3839
Delta R.T. 0.013 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

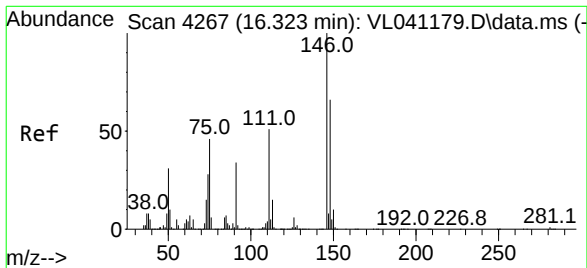
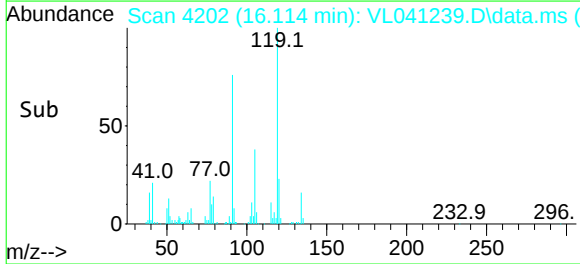
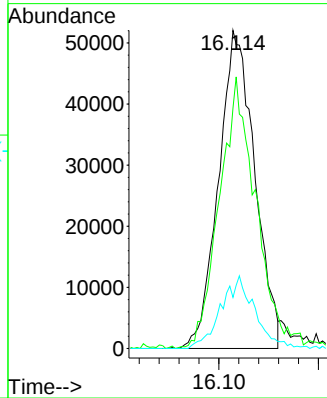
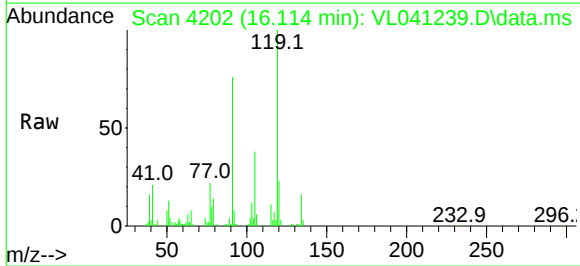
Tgt Ion	Ratio	Lower	Upper
120	100		
91	527.5	384.8	577.2





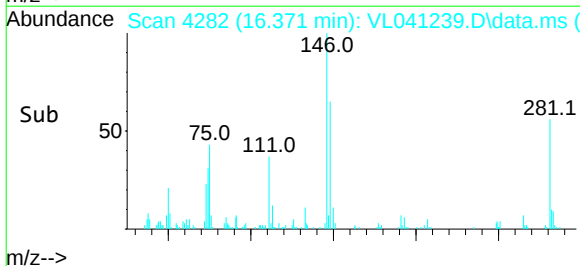
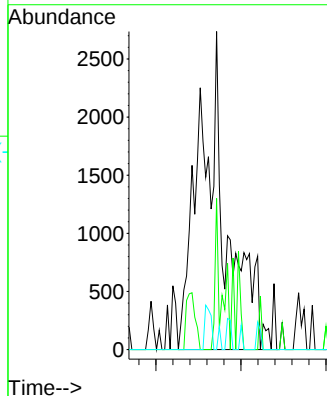
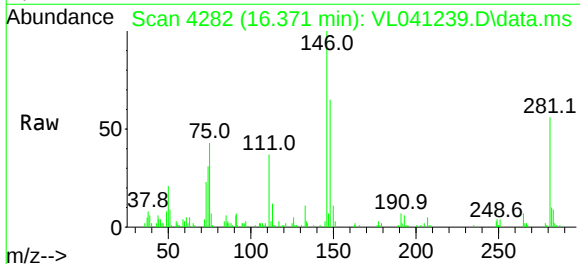
#65
tert-Butylbenzene
Concen: 0.446 ppbv
RT: 16.114 min Scan# 4202
Delta R.T. 0.006 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

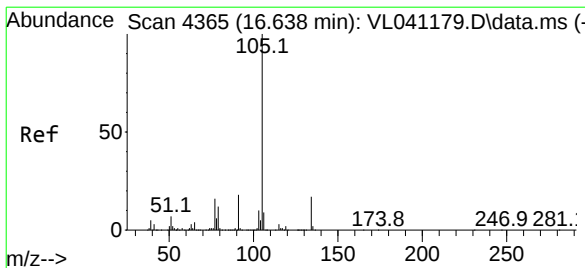
Tgt Ion	Ratio	Lower	Upper
119	100		
91	88.6	67.0	100.4
134	21.5	15.2	22.8



#66
Benzyl Chloride
Concen: 0.187 ppbv m
RT: 16.371 min Scan# 4282
Delta R.T. 0.022 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

Tgt Ion	Ratio	Lower	Upper
91	100		
126	0.0	14.6	21.8#
128	6.0	4.7	7.1





#67

sec-Butylbenzene

Concen: 0.461 ppbv

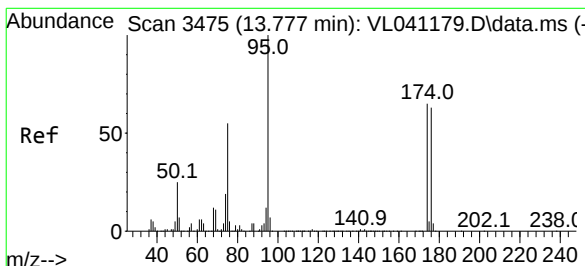
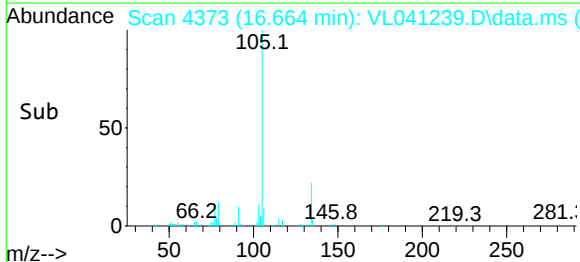
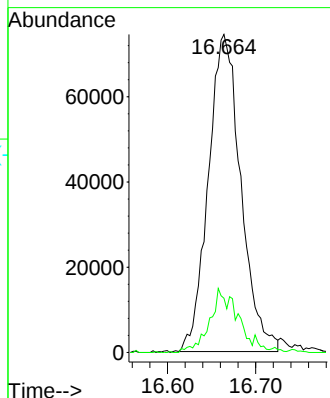
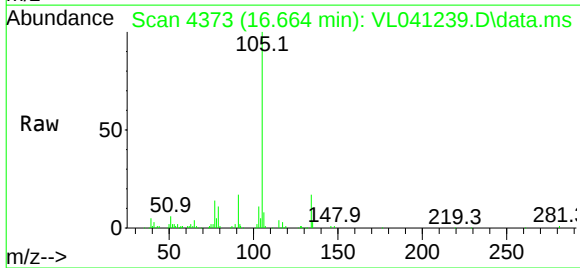
RT: 16.664 min Scan# 4373

Delta R.T. 0.013 min

Lab File: VL041239.D

Acq: 8 May 2024 11:56

Tgt Ion: 105 Resp: 190806
 Ion Ratio Lower Upper
 105 100
 134 18.4 13.8 20.8



#68

1-Bromo-4-Fluorobenzene

Concen: 10.102 ppbv

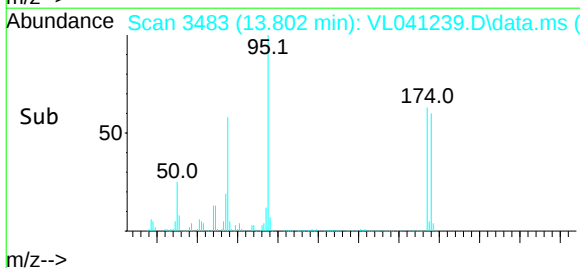
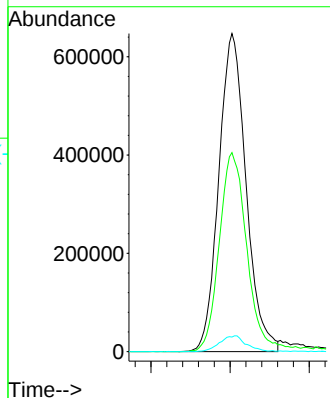
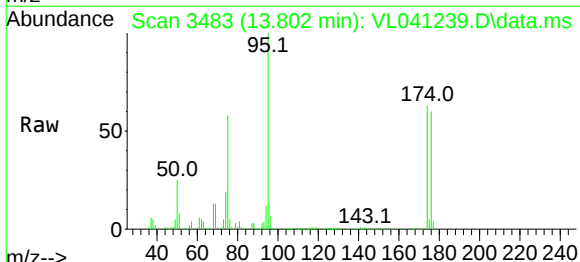
RT: 13.802 min Scan# 3483

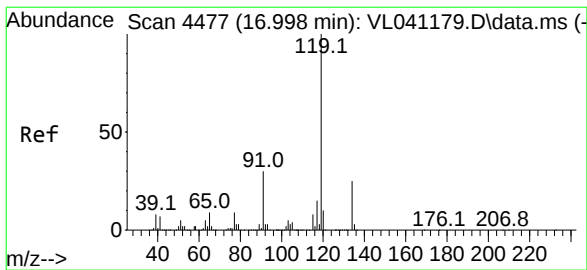
Delta R.T. 0.006 min

Lab File: VL041239.D

Acq: 8 May 2024 11:56

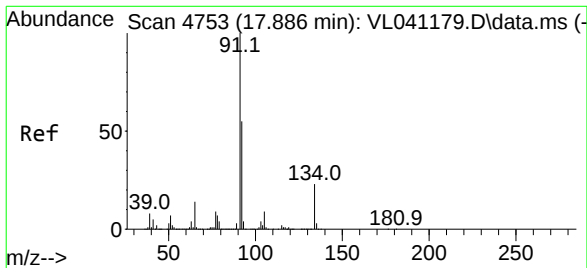
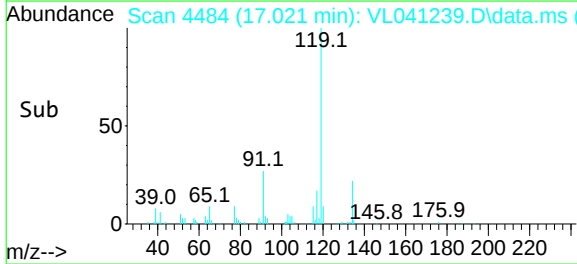
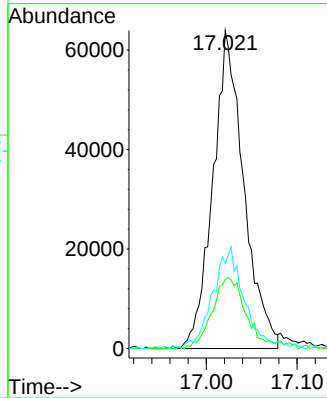
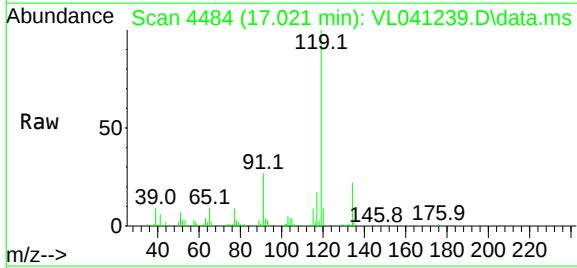
Tgt Ion: 95 Resp: 1549552
 Ion Ratio Lower Upper
 95 100
 174 63.6 53.6 80.4
 175 5.0 4.2 6.4





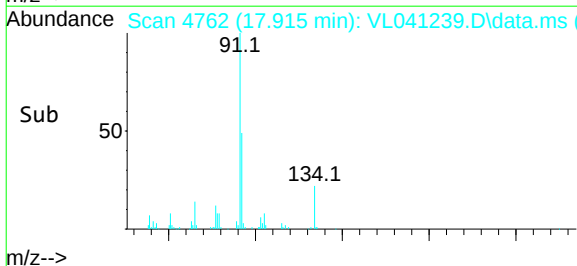
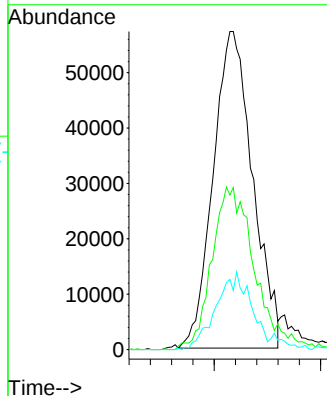
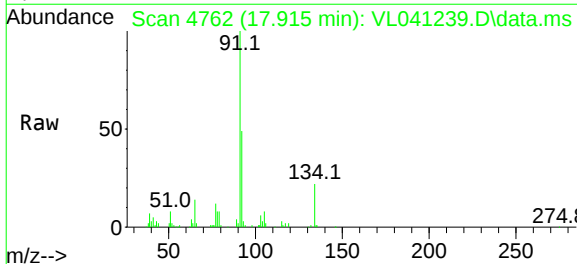
#69
p-Isopropyltoluene
Concen: 0.442 ppbv
RT: 17.021 min Scan# 4484
Delta R.T. 0.006 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

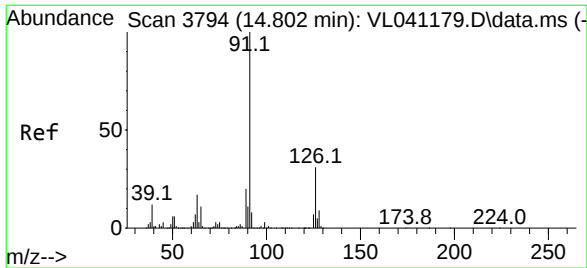
Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.1	30.1
91	33.4	24.2	36.2



#70
n-Butylbenzene
Concen: 0.413 ppbv
RT: 17.915 min Scan# 4762
Delta R.T. 0.010 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

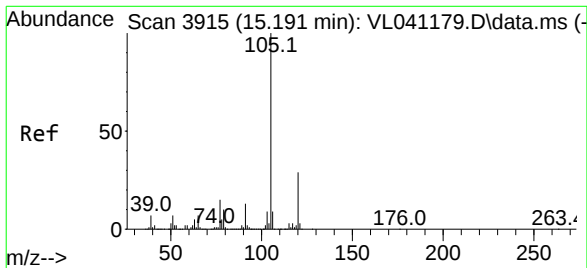
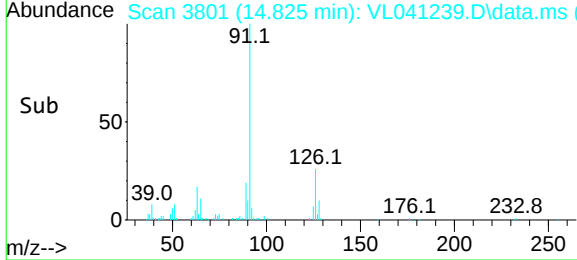
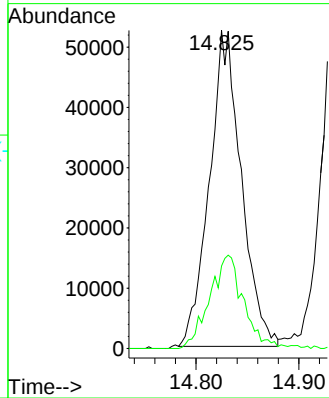
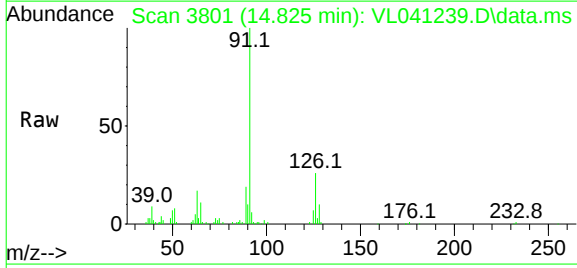
Tgt Ion	Ratio	Lower	Upper
91	100		
92	56.5	43.3	64.9
134	23.3	17.8	26.8





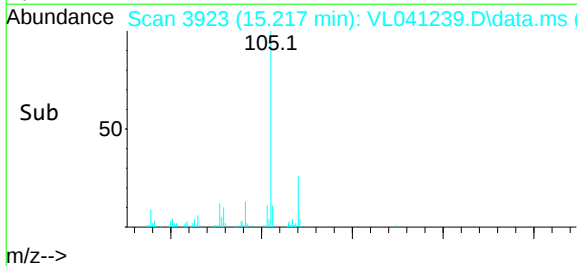
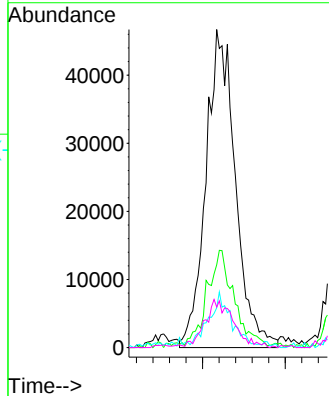
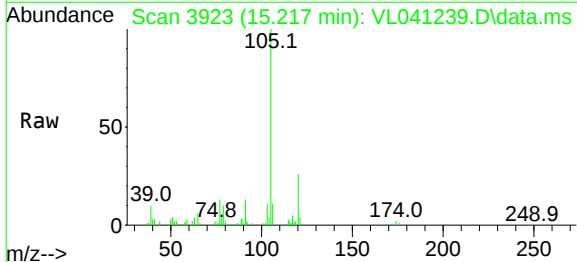
#71
2-Chlorotoluene
Concen: 0.452 ppbv
RT: 14.825 min Scan# 3801
Delta R.T. 0.003 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

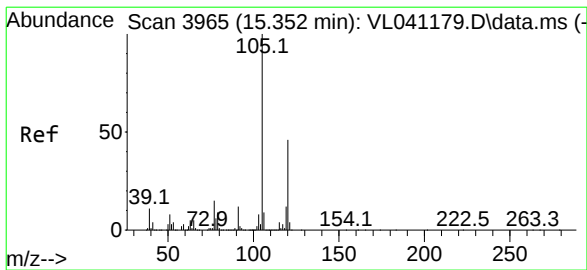
Tgt Ion: 91 Resp: 112984
Ion Ratio Lower Upper
91 100
126 31.9 12.2 48.8



#72
4-Ethyltoluene
Concen: 0.465 ppbv m
RT: 15.217 min Scan# 3923
Delta R.T. 0.006 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

Tgt Ion: 105 Resp: 115674
Ion Ratio Lower Upper
105 100
120 30.4 24.7 37.1
91 14.8 10.3 15.5
77 15.2 11.4 17.0





#73

1,3,5-Trimethylbenzene

Concen: 0.428 ppbv

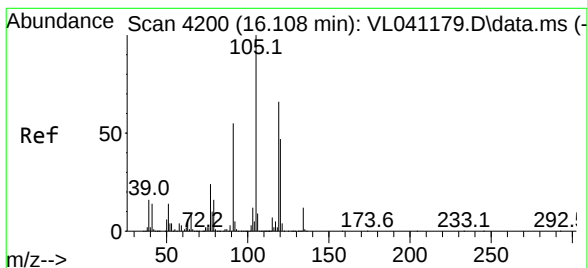
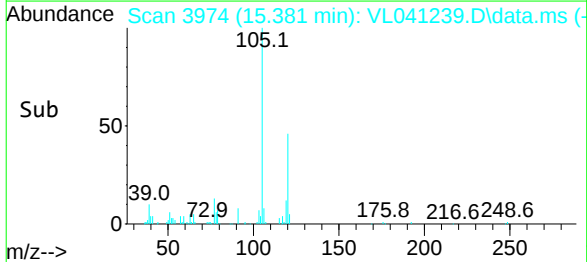
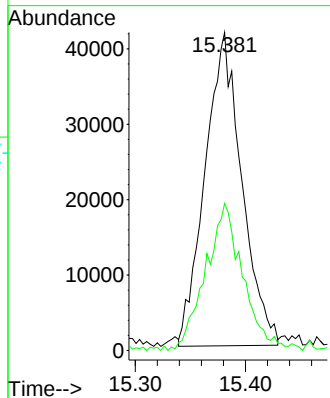
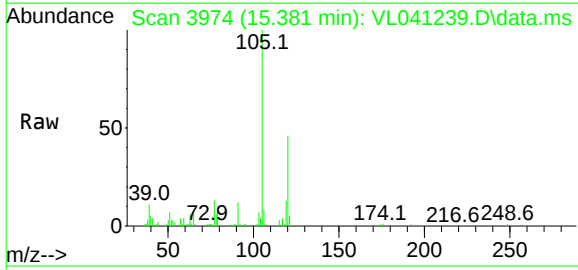
RT: 15.381 min Scan# 3974

Delta R.T. 0.010 min

Lab File: VL041239.D

Acq: 8 May 2024 11:56

Tgt Ion:105 Resp: 96213
 Ion Ratio Lower Upper
 105 100
 120 45.0 37.0 55.4



#74

1,2,4-Trimethylbenzene

Concen: 0.453 ppbv

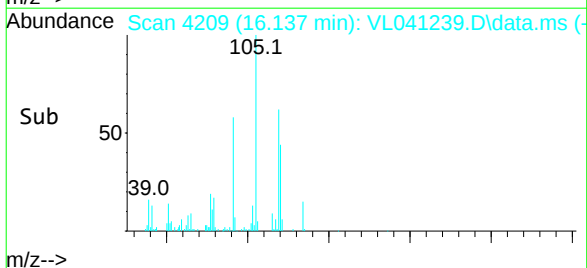
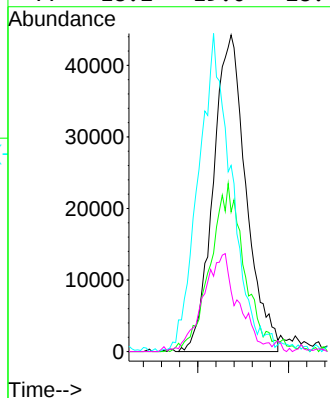
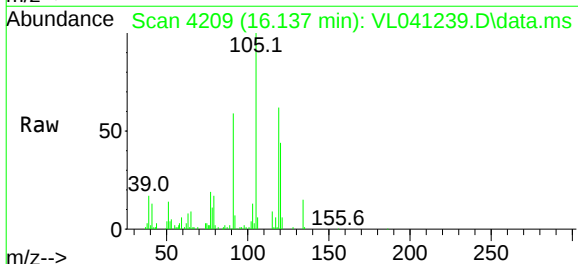
RT: 16.137 min Scan# 4209

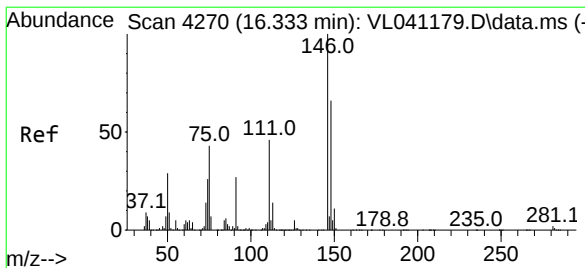
Delta R.T. 0.010 min

Lab File: VL041239.D

Acq: 8 May 2024 11:56

Tgt Ion:105 Resp: 111370
 Ion Ratio Lower Upper
 105 100
 120 41.1 37.8 56.6
 91 56.6 44.3 66.5
 77 18.2 19.0 28.4#





#75

1,3-Dichlorobenzene

Concen: 0.497 ppbv m

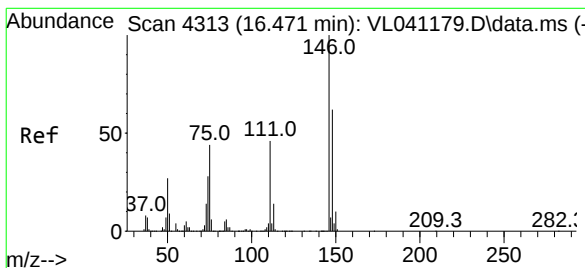
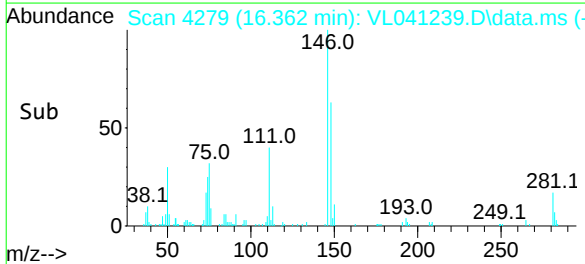
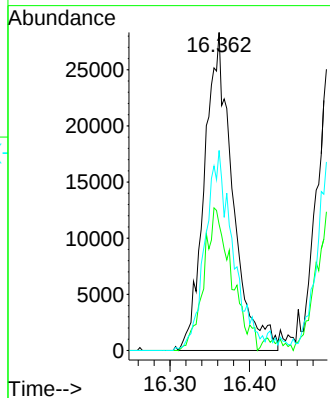
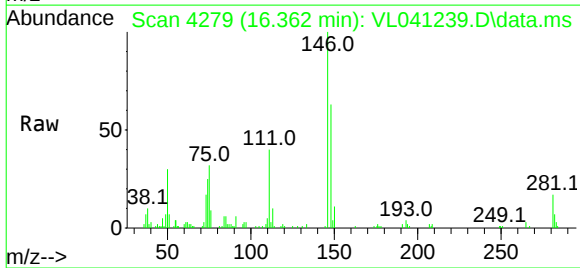
RT: 16.362 min Scan# 4279

Delta R.T. 0.013 min

Lab File: VL041239.D

Acq: 8 May 2024 11:56

Tgt Ion:	146	Resp:	70012
Ion	Ratio	Lower	Upper
146	100		
111	46.0	23.7	71.1
148	64.3	32.5	97.4



#76

1,4-Dichlorobenzene

Concen: 0.441 ppbv

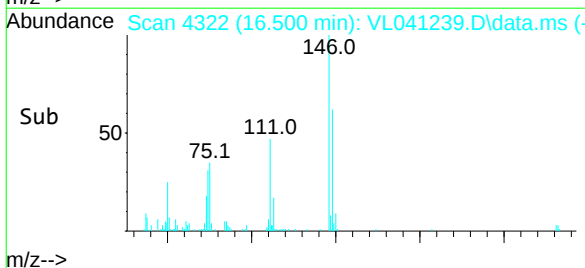
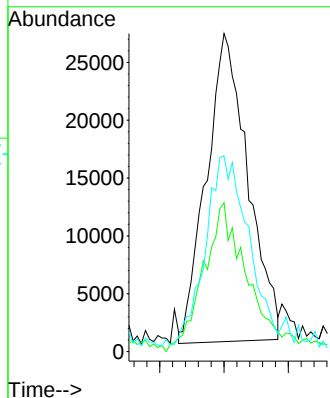
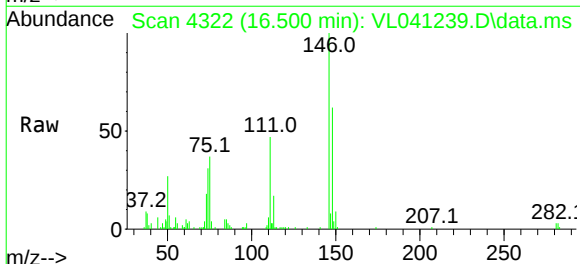
RT: 16.500 min Scan# 4322

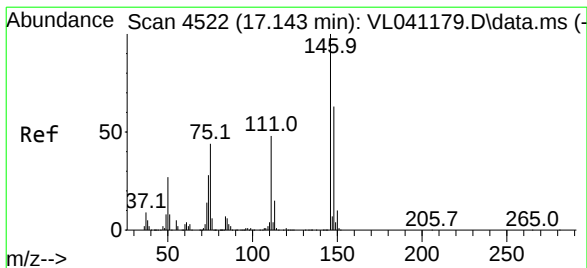
Delta R.T. 0.006 min

Lab File: VL041239.D

Acq: 8 May 2024 11:56

Tgt Ion:	146	Resp:	59791
Ion	Ratio	Lower	Upper
146	100		
111	53.3	23.3	69.8
148	74.2	32.6	97.7





#77

1,2-Dichlorobenzene

Concen: 0.446 ppbv

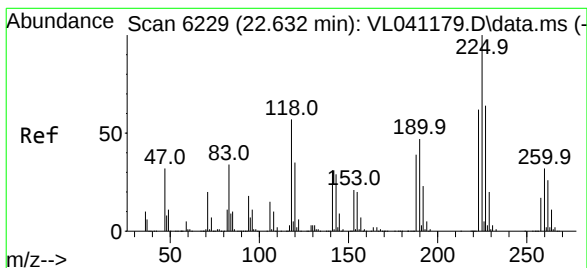
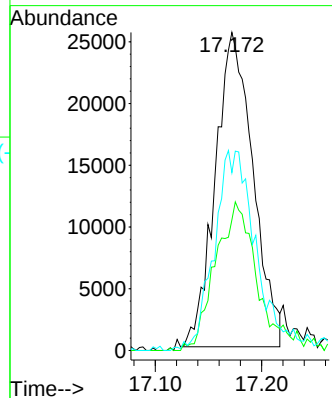
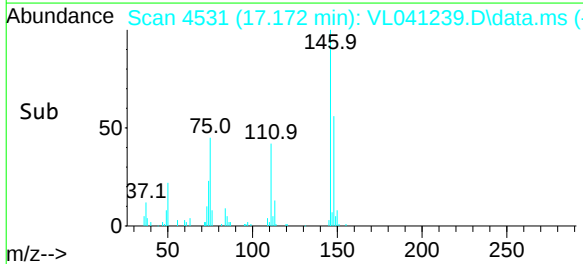
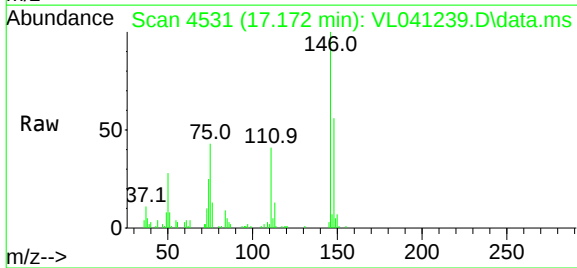
RT: 17.172 min Scan# 4531

Delta R.T. 0.010 min

Lab File: VL041239.D

Acq: 8 May 2024 11:56

Tgt	Ion:146	Resp:	62813
Ion	Ratio	Lower	Upper
146	100		
111	53.6	24.5	73.5
148	73.5	32.6	98.0



#78

Hexachloro-1,3-Butadiene

Concen: 0.480 ppbv m

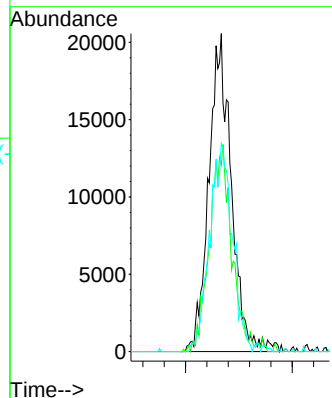
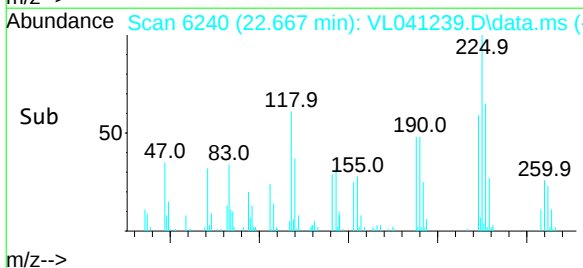
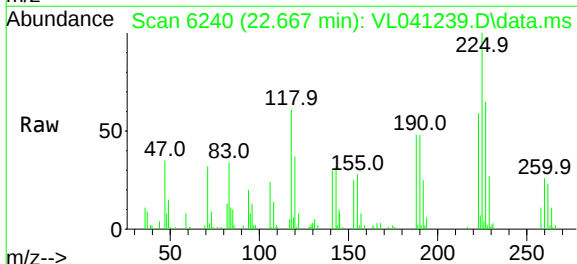
RT: 22.667 min Scan# 6240

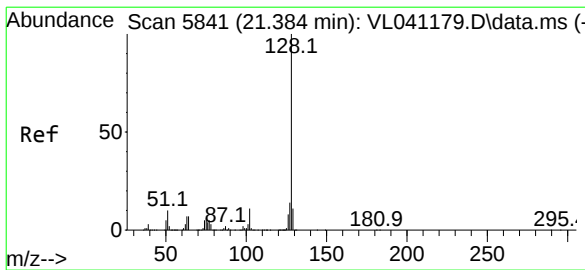
Delta R.T. 0.010 min

Lab File: VL041239.D

Acq: 8 May 2024 11:56

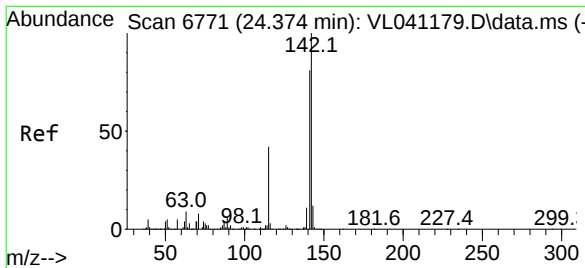
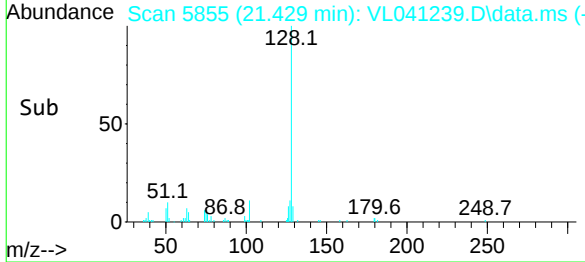
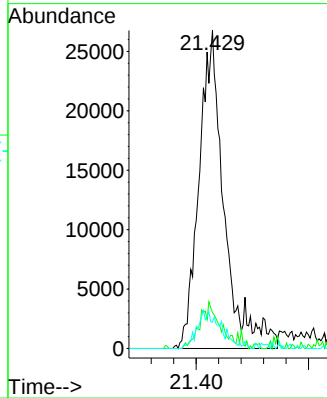
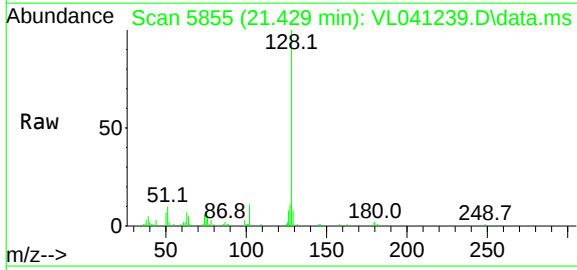
Tgt	Ion:225	Resp:	60109
Ion	Ratio	Lower	Upper
225	100		
223	65.3	50.9	76.3
227	66.4	52.0	78.0





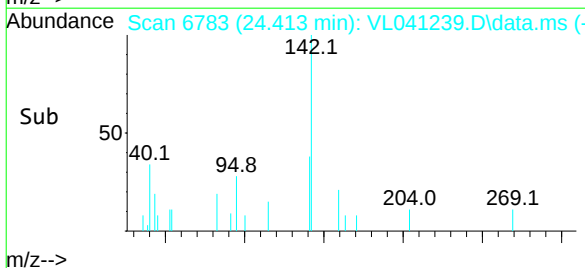
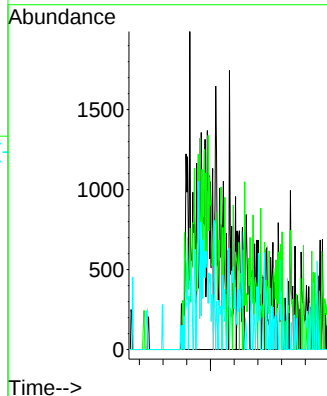
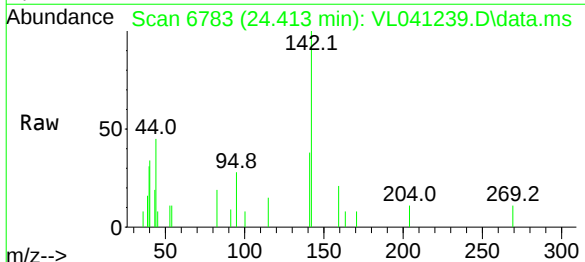
#79
Naphthalene
Concen: 0.353 ppbv m
RT: 21.429 min Scan# 5855
Delta R.T. 0.026 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

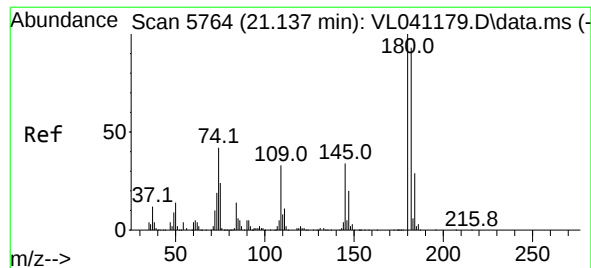
Tgt Ion	128	127	129
Ratio	100	11.3	8.3
Lower		10.8	8.9
Upper		16.2	13.3#



#80
Naphthalene, 2-methyl-
Concen: 0.148 ppbv m
RT: 24.413 min Scan# 6783
Delta R.T. 0.022 min
Lab File: VL041239.D
Acq: 8 May 2024 11:56

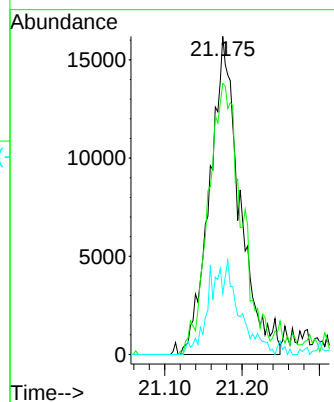
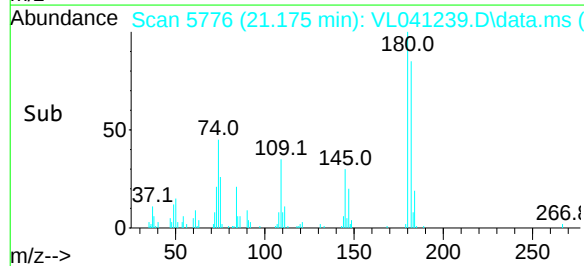
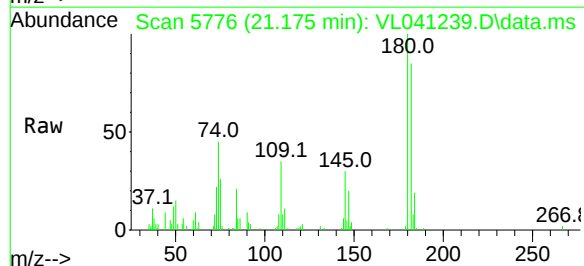
Tgt Ion	142	141	115
Ratio	100	3.7	5.7
Lower		67.9	31.4
Upper		101.9#	47.0#





#81
 1,2,4-Trichlorobenzene
 Concen: 0.354 ppbv m
 RT: 21.175 min Scan# 5776
 Delta R.T. 0.010 min
 Lab File: VL041239.D
 Acq: 8 May 2024 11:56

Tgt Ion	Ratio	Lower	Upper
180	100		
182	99.3	77.2	115.8
184	30.2	24.6	36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050824\
 Data File : VL041240.D
 Acq On : 8 May 2024 12:35
 Operator : SY/MD
 Sample : P2403-13 LOD 0.40
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 09 04:50:23 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

QLast Update : Thu May 09 02:43:03 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.214	49	825699	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.674	114	2196314	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.491	117	2020525	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	13.802	95	1537385	10.079	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.800%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.745	85	67513	0.604	ppbv	93
3) Chlorodifluoromethane	2.694	51	58206	0.464	ppbv	99
4) Chloromethane	2.835	50	22511	0.457	ppbv #	85
5) Vinyl Chloride	2.938	62	20936	0.424	ppbv	100
6) Bromomethane	3.140	94	8175	0.453	ppbv	100
7) Chloroethane	3.218	64	8011	0.459	ppbv #	76
8) Dichlorotetrafluoroethane	2.874	85	56450	0.488	ppbv	99
9) Propene	2.713	41	24432m	0.498	ppbv	
10) Heptane	7.603	43	45961	0.387	ppbv	97
11) Trichlorofluoromethane	3.581	101	52572	0.463	ppbv	100
12) 1,1,2-Trichlorotrifluo...	4.086	101	36841	0.439	ppbv	98
13) Ethanol	3.272	45	5754m	0.523	ppbv	
14) Bromoethene	3.388	108	13758	0.397	ppbv #	83
15) Acetone	3.504	43	48824	0.501	ppbv #	85
16) 1,3-Butadiene	3.002	39	20249	0.412	ppbv	91
17) tert-Butyl alcohol	3.919	59	37739m	0.359	ppbv	
18) 1,1-Dichloroethene	3.899	96	16668m	0.445	ppbv	
19) Isopropyl Alcohol	3.613	45	28731m	0.449	ppbv	
20) Methylene Chloride	3.957	84	17887	0.528	ppbv	92
21) Allyl Chloride	4.018	41	24894	0.392	ppbv	88
22) trans-1,2-Dichloroethene	4.468	96	15925	0.409	ppbv	97
23) Vinyl Acetate	4.658	43	40727m	0.380	ppbv	
24) 1,1-Dichloroethane	4.587	63	36987	0.443	ppbv	98
25) Ethyl Acetate	5.234	43	80831m	0.416	ppbv	
26) Hexane	5.237	57	36095m	0.416	ppbv	
27) Carbon Disulfide	4.150	76	38683m	0.376	ppbv	
28) Methyl tert-Butyl Ether	4.620	73	25874	0.374	ppbv	92
29) Chloroform	5.295	83	57197	0.478	ppbv	98
30) Cyclohexane	6.629	84	30986m	0.451	ppbv	
31) cis-1,2-Dichloroethene	5.102	61	35881m	0.442	ppbv	
32) 1,1,1-Trichloroethane	6.031	97	51684	0.433	ppbv	95
34) 2-Butanone	4.822	43	46917	0.420	ppbv	95
35) Carbon Tetrachloride	6.523	117	51614m	0.419	ppbv	
36) Benzene	6.388	78	74799m	0.406	ppbv	
37) 1,2-Dichloroethane	5.828	62	44026m	0.458	ppbv	
38) Trichloroethene	7.314	130	28222	0.411	ppbv	88
39) 1,2-Dichloropropane	7.099	63	29267	0.412	ppbv #	87
40) 1,4-Dioxane	7.359	88	10916m	0.430	ppbv	
41) Tetrahydrofuran	5.603	42	30632m	0.379	ppbv	
42) Bromodichloromethane	7.275	83	56609	0.410	ppbv #	98
43) Methyl Methacrylate	7.507	69	27486m	0.369	ppbv	
44) 2,2,4-Trimethylpentane	7.353	57	125746	0.396	ppbv	97
45) t-1,3-Dichloropropene	8.745	75	15554m	0.288	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050824\
 Data File : VL041240.D
 Acq On : 8 May 2024 12:35
 Operator : SY/MD
 Sample : P2403-13 LOD 0.40
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 09 04:50:23 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

QLast Update : Thu May 09 02:43:03 2024

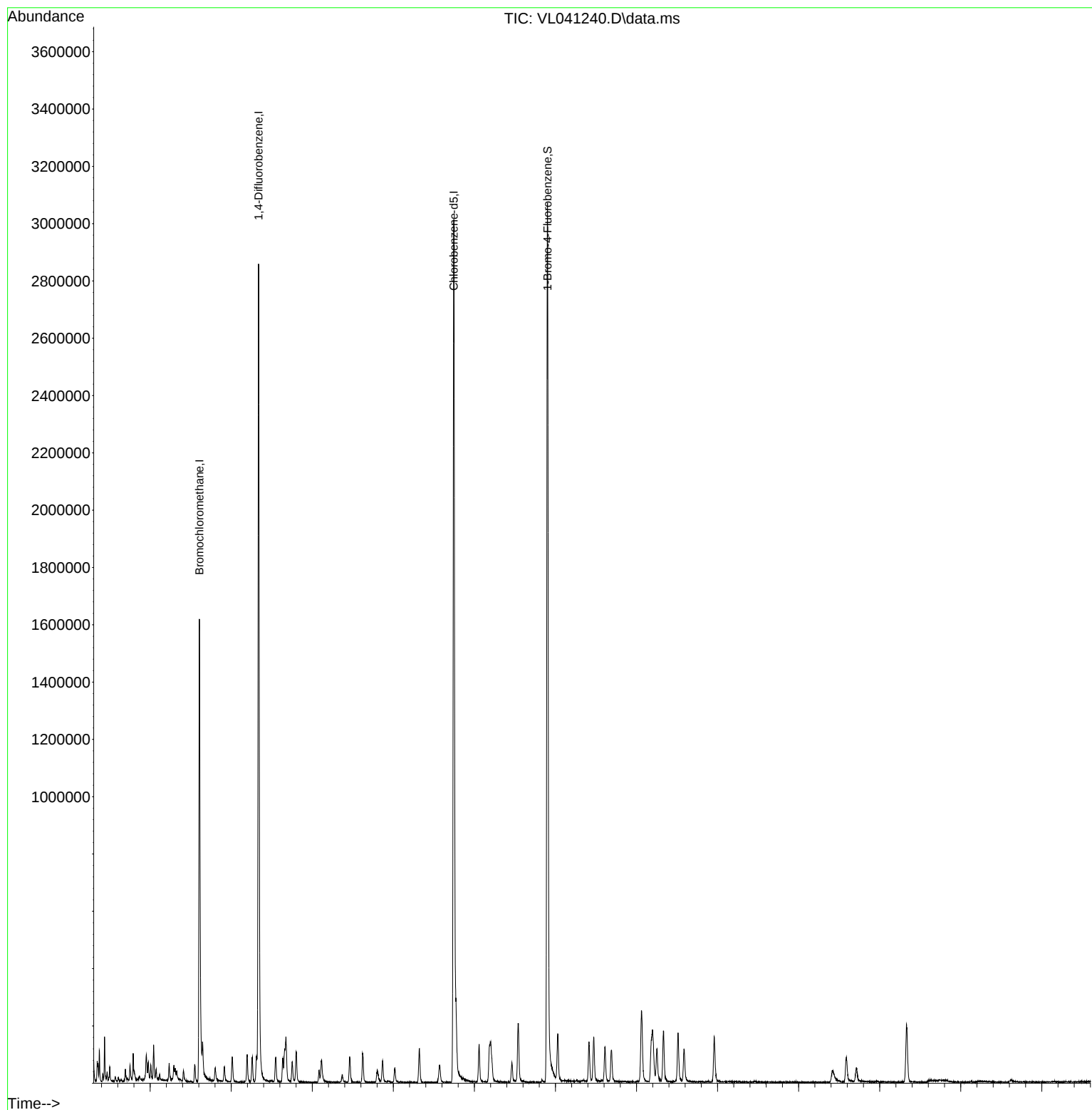
Response via : Initial Calibration

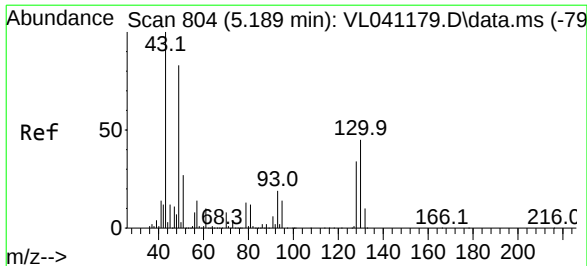
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.169	75	22727m	0.344	ppbv	
47) 1,1,2-Trichloroethane	8.915	97	31359m	0.441	ppbv	
48) Dibromochloromethane	9.742	129	44305m	0.391	ppbv	
49) Bromoform	12.433	173	31810m	0.330	ppbv	
50) 4-Methyl-2-Pentanone	8.224	43	77172m	0.385	ppbv	
51) 2-Hexanone	9.603	43	51327m	0.345	ppbv	
52) Tetrachloroethene	10.642	164	27200m	0.420	ppbv	
53) Toluene	9.243	91	83498m	0.391	ppbv	
54) 1,2-Dibromoethane	10.037	107	42391m	0.440	ppbv	
56) 1,1,1,2-Tetrachloroethane	11.539	131	35915m	0.438	ppbv	
57) Chlorobenzene	11.555	112	69668m	0.471	ppbv	
58) Ethyl Benzene	12.118	91	113102	0.408	ppbv	98
59) m/p-Xylene	12.397	91	189638m	0.814	ppbv	
60) o-Xylene	13.089	91	92525	0.424	ppbv	96
61) Styrene	12.921	104	39186	0.340	ppbv	97
62) Isopropylbenzene	14.056	105	137104	0.420	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.073	83	67034m	0.451	ppbv	
64) n-propylbenzene	14.947	120	37274m	0.458	ppbv	
65) tert-Butylbenzene	16.121	119	126348m	0.432	ppbv	
66) Benzyl Chloride	16.368	91	5997m	0.181	ppbv	
67) sec-Butylbenzene	16.670	105	180806m	0.439	ppbv	
69) p-Isopropyltoluene	17.027	119	142223m	0.419	ppbv	
70) n-Butylbenzene	17.918	91	140015	0.395	ppbv	98
71) 2-Chlorotoluene	14.828	91	106021m	0.427	ppbv	
72) 4-Ethyltoluene	15.220	105	99904	0.404	ppbv #	96
73) 1,3,5-Trimethylbenzene	15.384	105	97021m	0.434	ppbv	
74) 1,2,4-Trimethylbenzene	16.134	105	98588	0.404	ppbv	94
75) 1,3-Dichlorobenzene	16.355	146	55978	0.400	ppbv	89
76) 1,4-Dichlorobenzene	16.503	146	54837	0.407	ppbv	91
77) 1,2-Dichlorobenzene	17.179	146	63146m	0.451	ppbv	
78) Hexachloro-1,3-Butadiene	22.664	225	57895m	0.465	ppbv	
79) Naphthalene	21.423	128	70270m	0.302	ppbv	
80) Naphthalene,2-methyl-	24.516	142	11648m	0.124	ppbv	
81) 1,2,4-Trichlorobenzene	21.175	180	37301m	0.304	ppbv	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

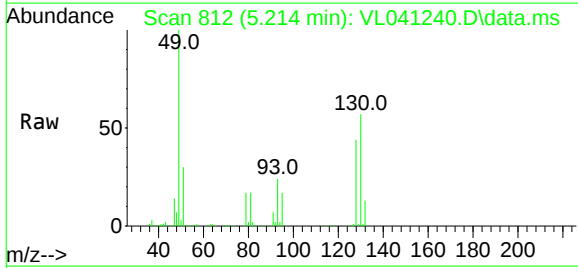
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050824\
Data File : VL041240.D
Acq On : 8 May 2024 12:35
Operator : SY/MD
Sample : P2403-13 LOD 0.40
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 09 04:50:23 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu May 09 02:43:03 2024
Response via : Initial Calibration

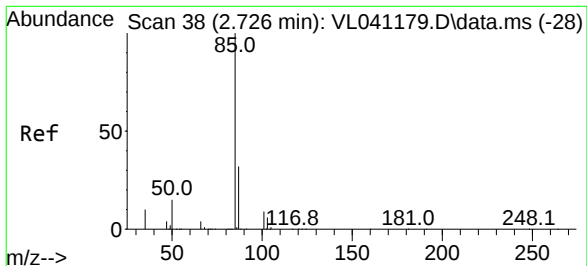
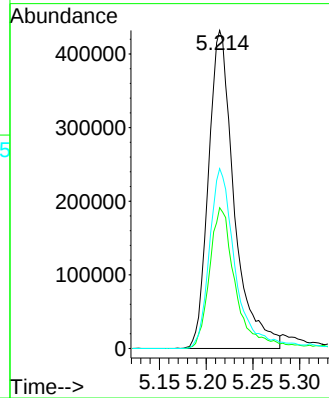
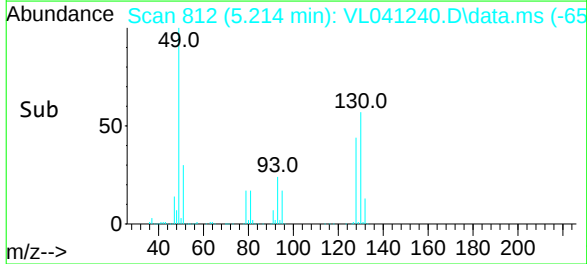




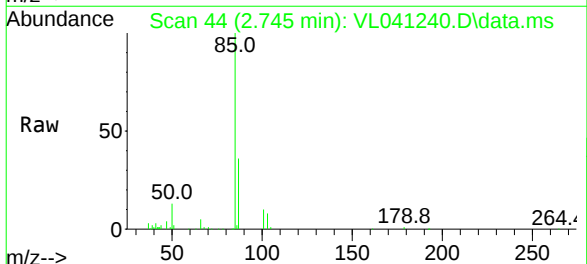
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.214 min Scan# 812
Delta R.T. 0.003 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35



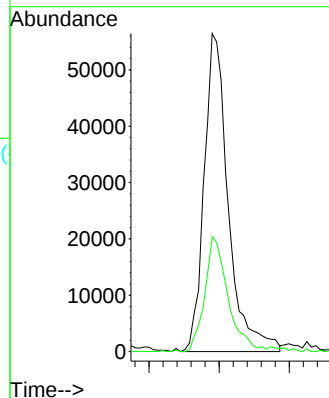
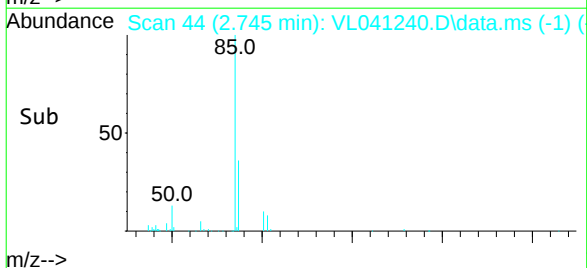
Tgt Ion: 49 Resp: 825699
Ion Ratio Lower Upper
49 100
128 46.4 21.5 64.5
130 58.7 27.2 81.6

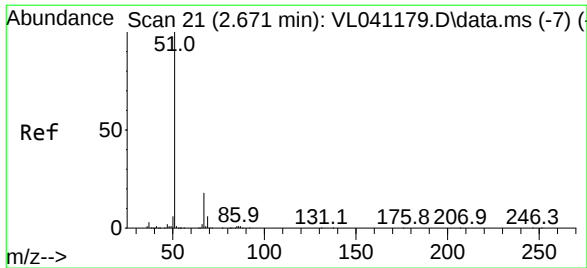


#2
Dichlorodifluoromethane
Concen: 0.604 ppbv
RT: 2.745 min Scan# 44
Delta R.T. 0.000 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35



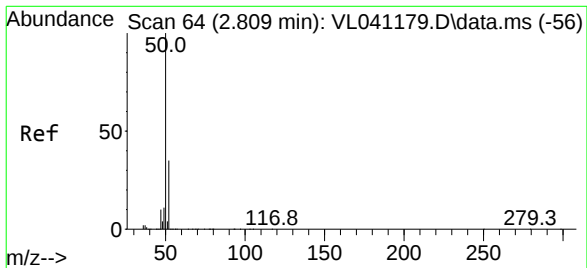
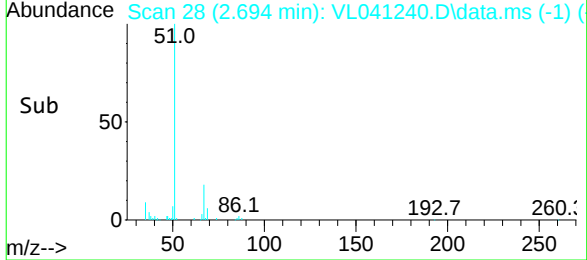
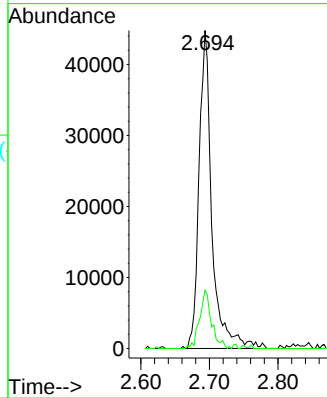
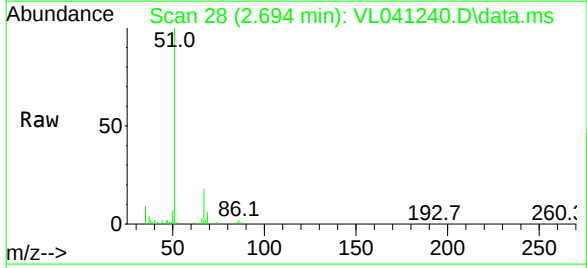
Tgt Ion: 85 Resp: 67513
Ion Ratio Lower Upper
85 100
87 36.1 25.7 38.5





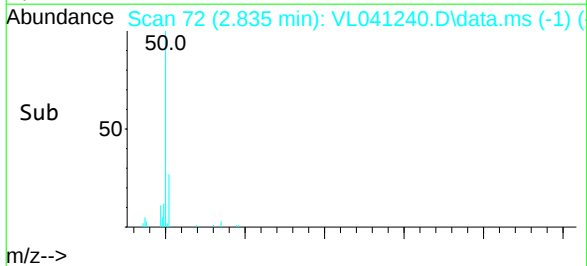
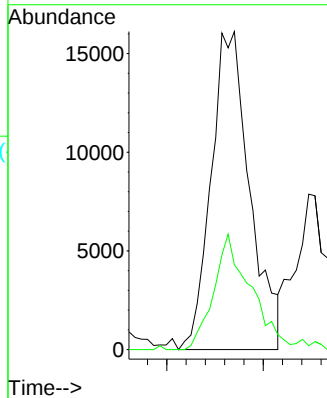
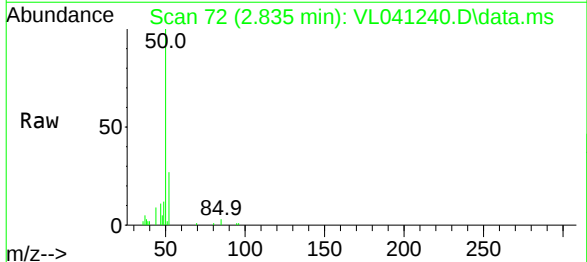
#3
Chlorodifluoromethane
Concen: 0.464 ppbv
RT: 2.694 min Scan# 28
Delta R.T. 0.003 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

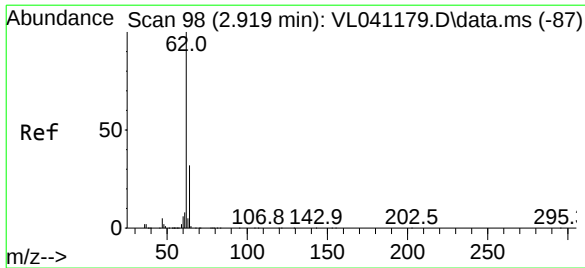
Tgt Ion: 51 Resp: 58206
Ion Ratio Lower Upper
51 100
67 17.1 14.0 21.0



#4
Chloromethane
Concen: 0.457 ppbv
RT: 2.835 min Scan# 72
Delta R.T. 0.003 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

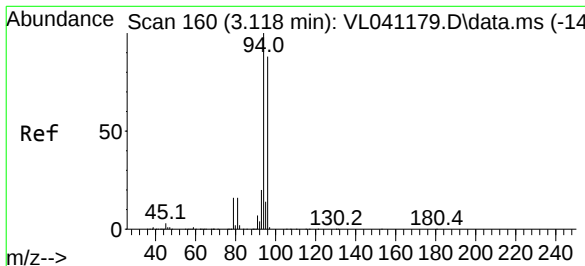
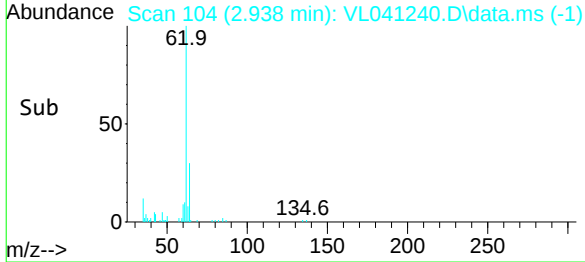
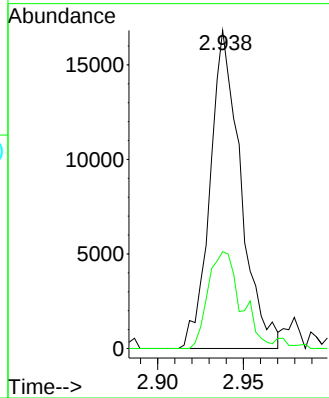
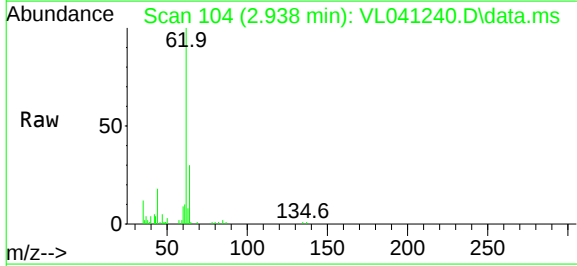
Tgt Ion: 50 Resp: 22511
Ion Ratio Lower Upper
50 100
52 26.7 28.3 42.5#





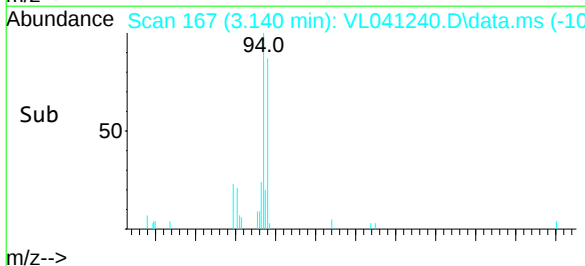
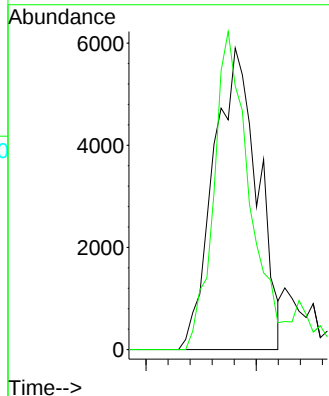
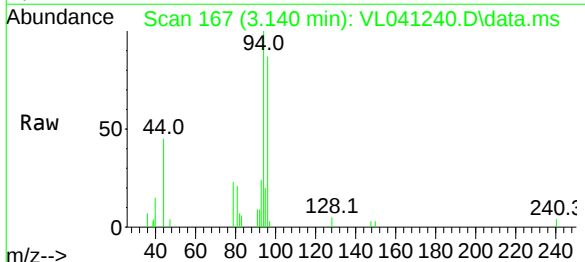
#5
 Vinyl Chloride
 Concen: 0.424 ppbv
 RT: 2.938 min Scan# 104
 Delta R.T. 0.000 min
 Lab File: VL041240.D
 Acq: 8 May 2024 12:35

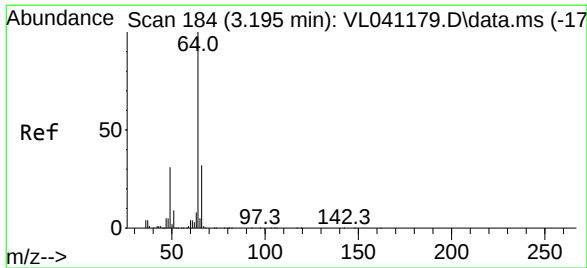
Tgt Ion: 62 Resp: 20936
 Ion Ratio Lower Upper
 62 100
 64 31.8 25.7 38.5



#6
 Bromomethane
 Concen: 0.453 ppbv
 RT: 3.140 min Scan# 167
 Delta R.T. 0.003 min
 Lab File: VL041240.D
 Acq: 8 May 2024 12:35

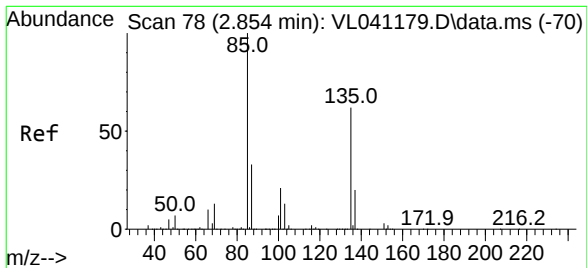
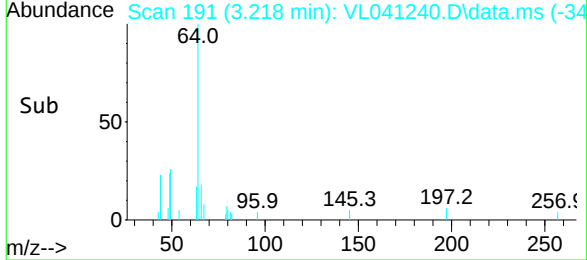
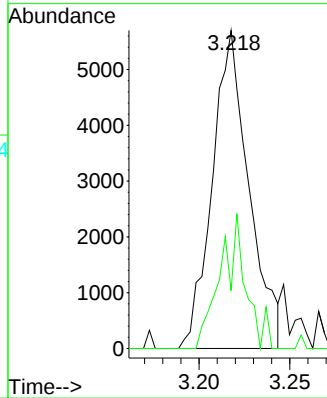
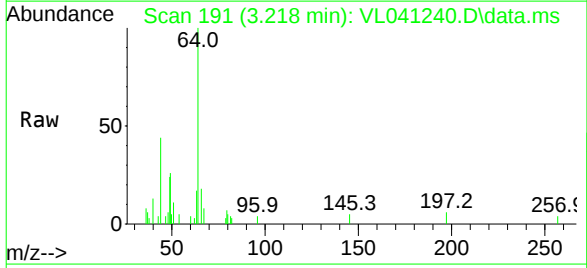
Tgt Ion: 94 Resp: 8175
 Ion Ratio Lower Upper
 94 100
 96 87.4 70.1 105.1





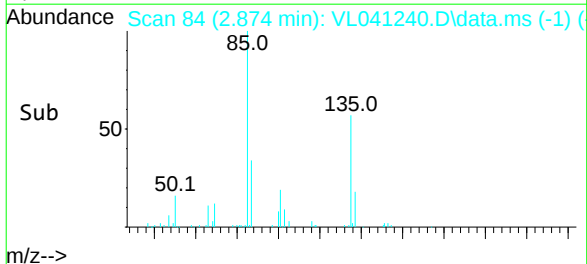
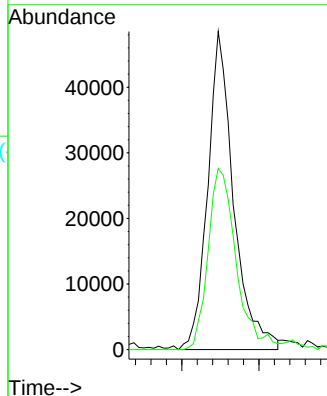
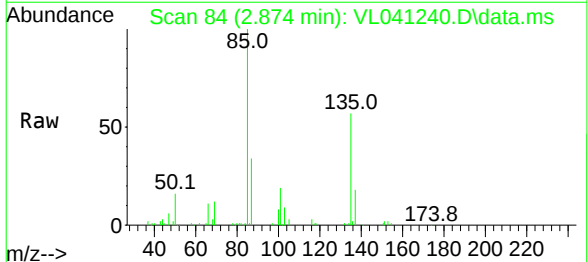
#7
Chloroethane
Concen: 0.459 ppbv
RT: 3.218 min Scan# 191
Delta R.T. 0.003 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

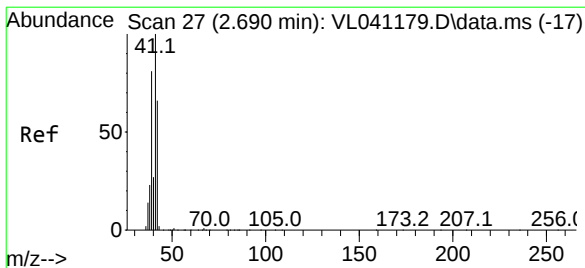
Tgt Ion: 64 Resp: 8011
Ion Ratio Lower Upper
64 100
66 18.2 25.4 38.2#



#8
Dichlorotetrafluoroethane
Concen: 0.488 ppbv
RT: 2.874 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

Tgt Ion: 85 Resp: 56450
Ion Ratio Lower Upper
85 100
135 64.8 51.5 77.3





#9

Propene

Concen: 0.498 ppbv m

RT: 2.713 min Scan# 34

Delta R.T. 0.003 min

Lab File: VL041240.D

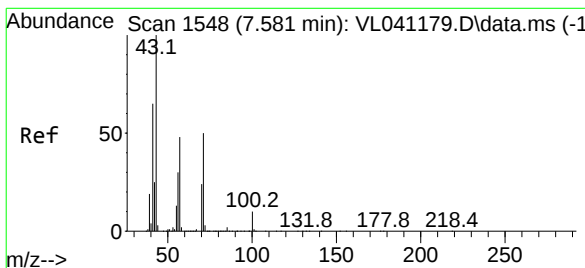
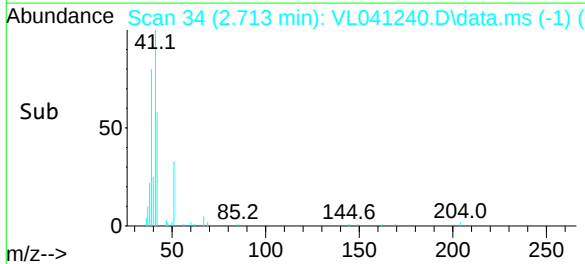
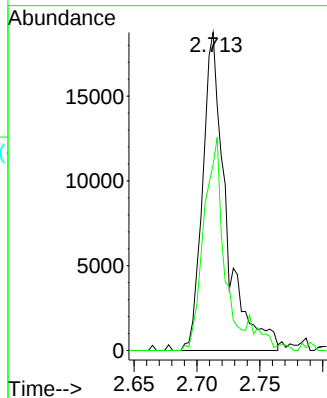
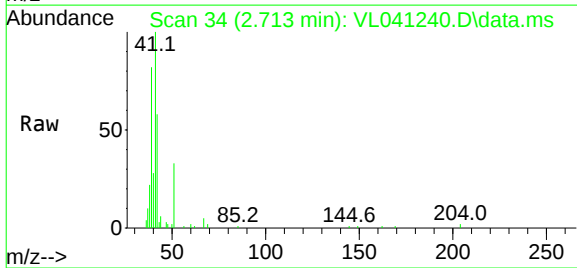
Acq: 8 May 2024 12:35

Tgt Ion: 41 Resp: 24432

Ion Ratio Lower Upper

41 100

42 64.0 55.3 82.9



#10

Heptane

Concen: 0.387 ppbv

RT: 7.603 min Scan# 1555

Delta R.T. 0.003 min

Lab File: VL041240.D

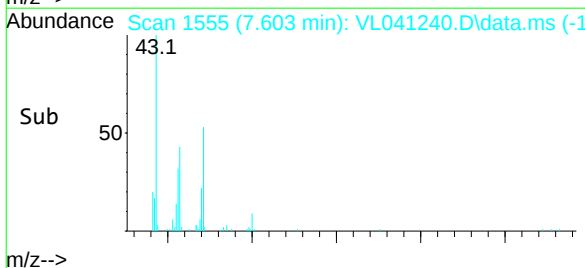
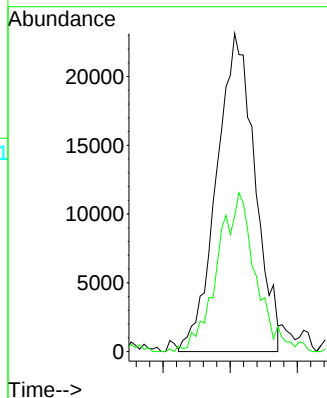
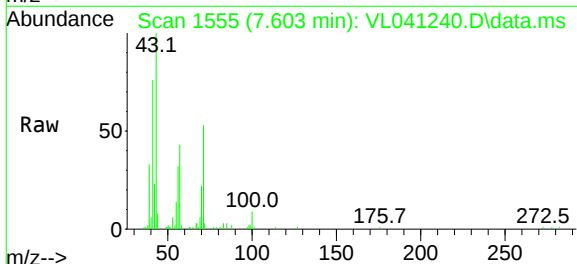
Acq: 8 May 2024 12:35

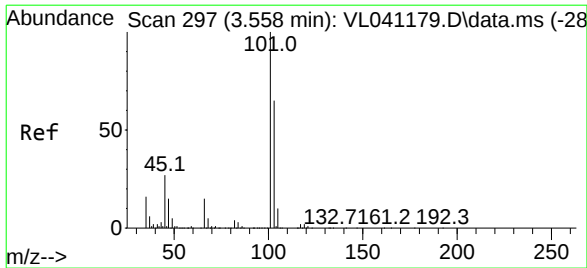
Tgt Ion: 43 Resp: 45961

Ion Ratio Lower Upper

43 100

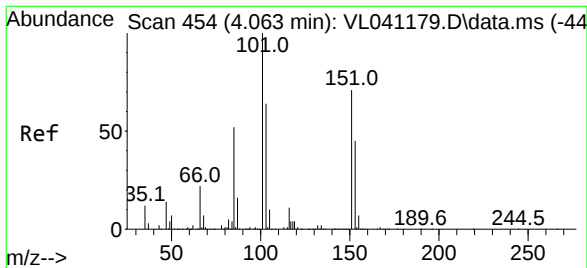
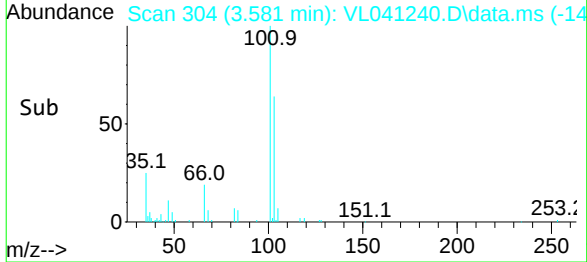
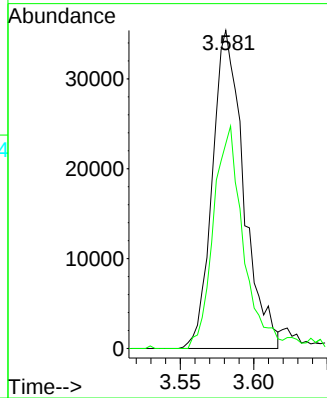
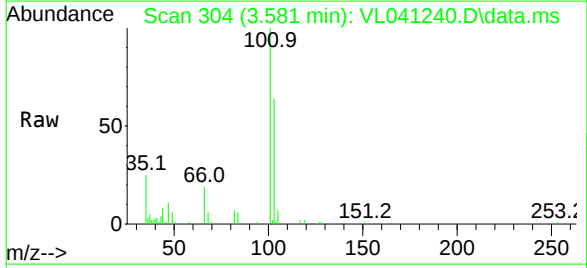
57 50.3 38.7 58.1





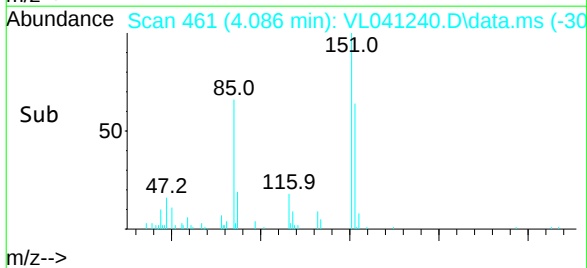
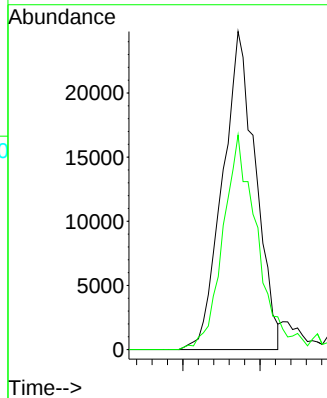
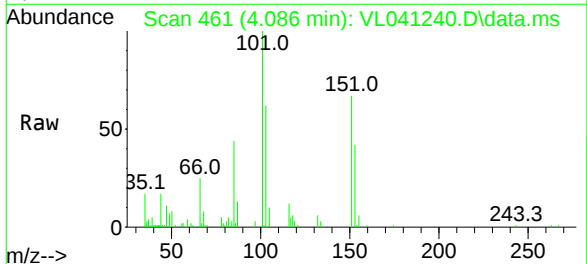
#11
Trichlorofluoromethane
Concen: 0.463 ppbv
RT: 3.581 min Scan# 304
Delta R.T. 0.000 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

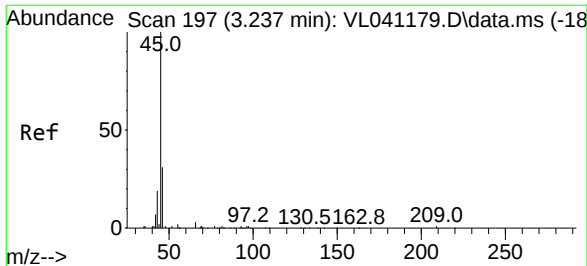
Tgt Ion:101 Resp: 52572
Ion Ratio Lower Upper
101 100
103 64.4 51.6 77.4



#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.439 ppbv
RT: 4.086 min Scan# 461
Delta R.T. 0.003 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

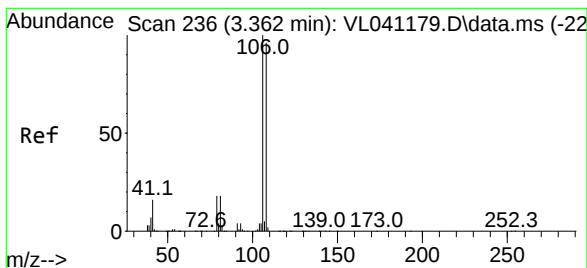
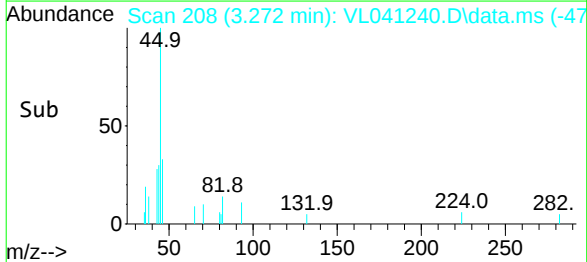
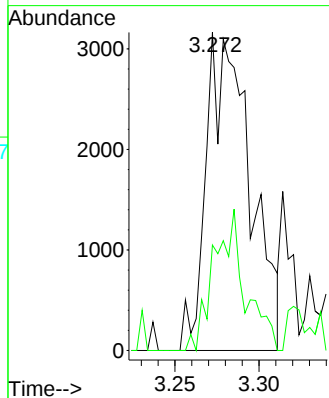
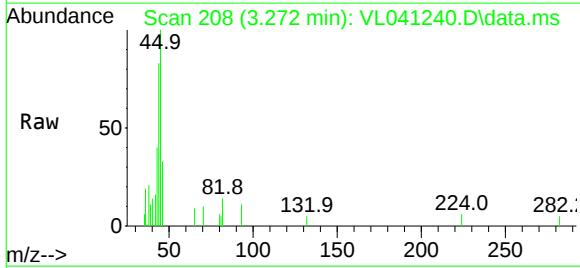
Tgt Ion:101 Resp: 36841
Ion Ratio Lower Upper
101 100
151 72.6 56.8 85.2





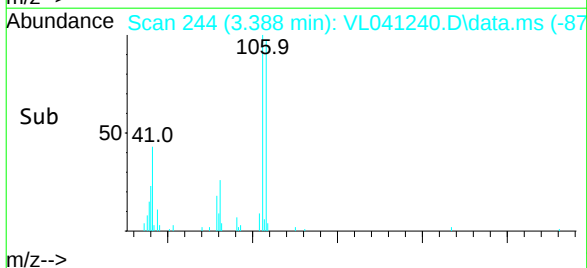
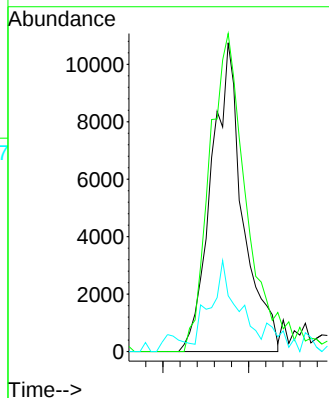
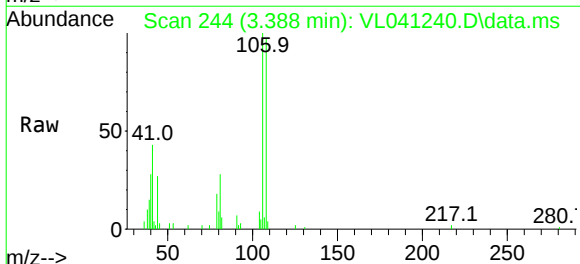
#13
Ethanol
Concen: 0.523 ppbv m
RT: 3.272 min Scan# 208
Delta R.T. 0.016 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

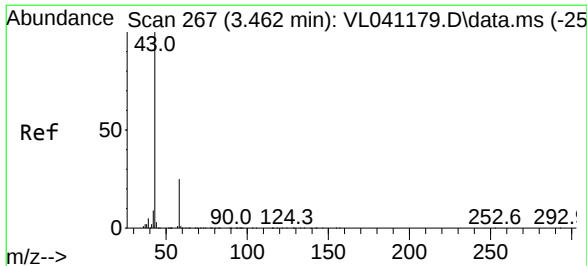
Tgt Ion: 45 Resp: 5754
Ion Ratio Lower Upper
45 100
46 2.0 14.8 59.0#



#14
Bromoethene
Concen: 0.397 ppbv
RT: 3.388 min Scan# 244
Delta R.T. 0.003 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

Tgt Ion: 108 Resp: 13758
Ion Ratio Lower Upper
108 100
106 125.4 88.2 132.4
79 37.7 17.4 26.0#





#15

Acetone

Concen: 0.501 ppbv

RT: 3.504 min Scan# 280

Delta R.T. 0.019 min

Lab File: VL041240.D

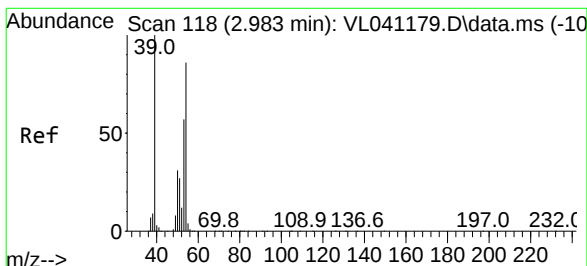
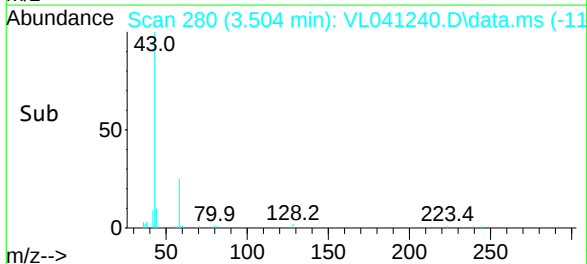
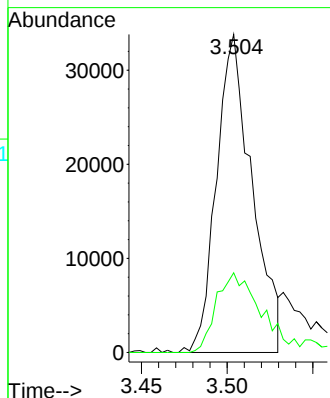
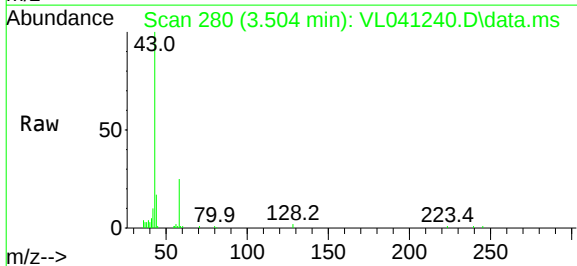
Acq: 8 May 2024 12:35

Tgt Ion: 43 Resp: 48824

Ion Ratio Lower Upper

43 100

58 34.3 21.4 32.0#



#16

1,3-Butadiene

Concen: 0.412 ppbv

RT: 3.002 min Scan# 124

Delta R.T. 0.000 min

Lab File: VL041240.D

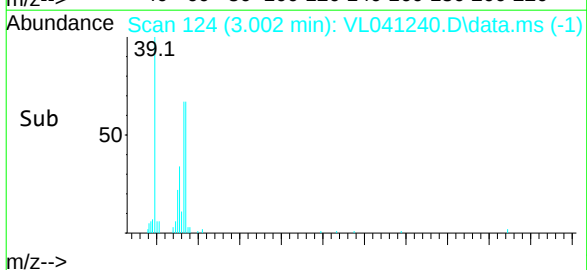
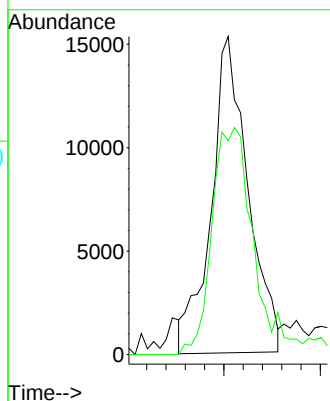
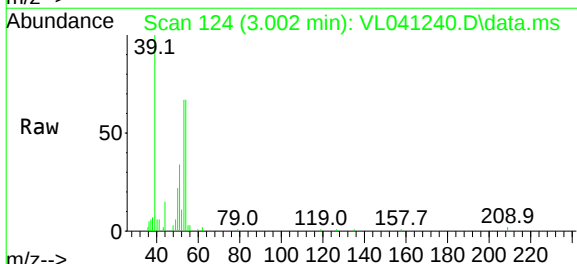
Acq: 8 May 2024 12:35

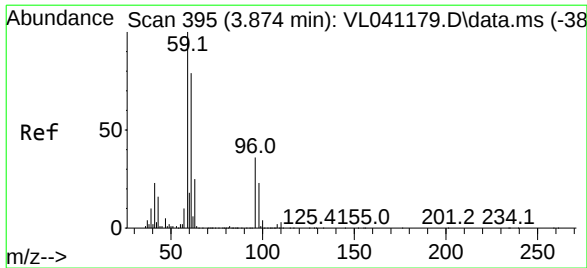
Tgt Ion: 39 Resp: 20249

Ion Ratio Lower Upper

39 100

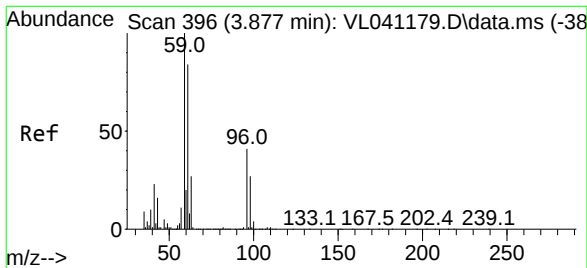
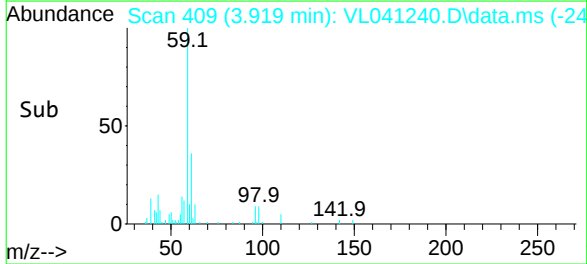
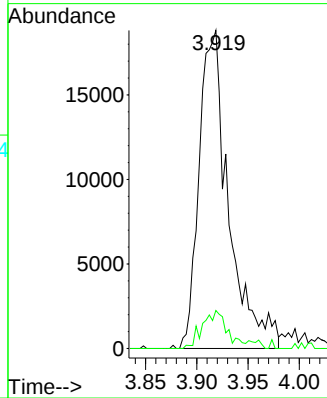
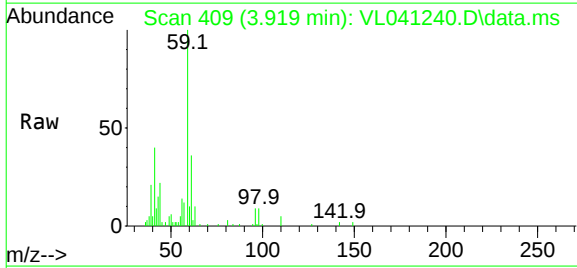
54 85.6 62.2 93.4





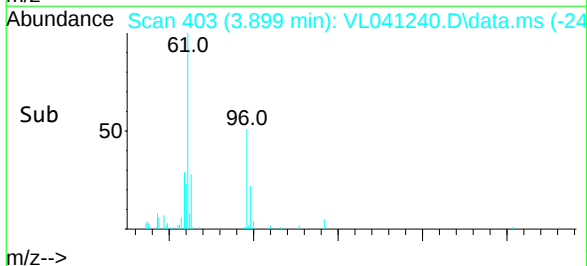
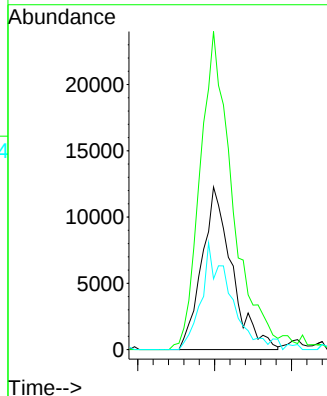
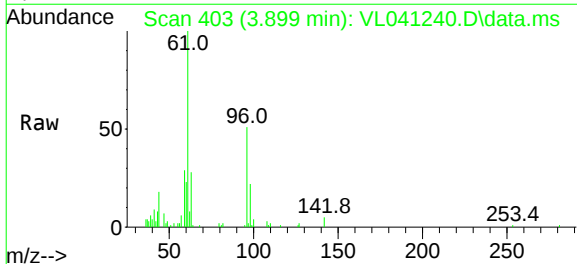
#17
tert-Butyl alcohol
Concen: 0.359 ppbv m
RT: 3.919 min Scan# 409
Delta R.T. 0.023 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

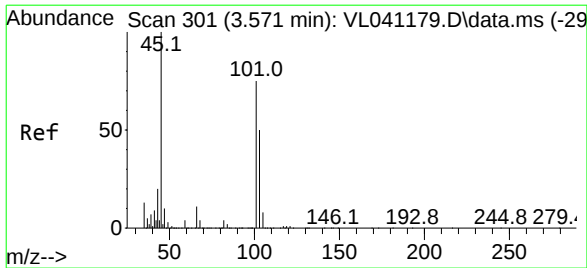
Tgt Ion: 59 Resp: 37739
Ion Ratio Lower Upper
59 100
57 11.3 8.4 12.6



#18
1,1-Dichloroethene
Concen: 0.445 ppbv m
RT: 3.899 min Scan# 403
Delta R.T. 0.003 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

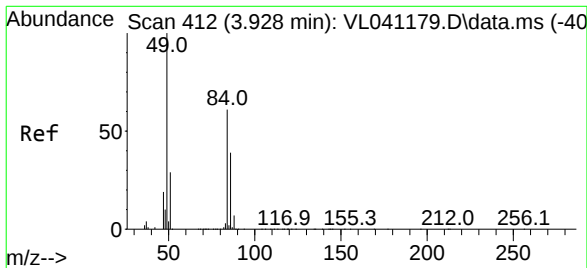
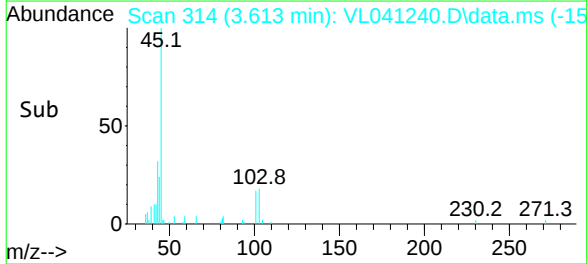
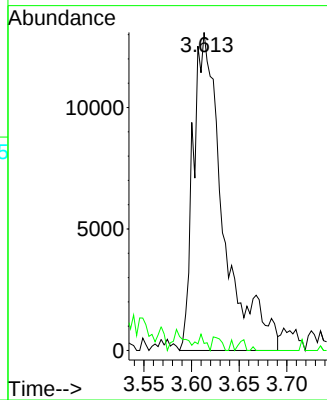
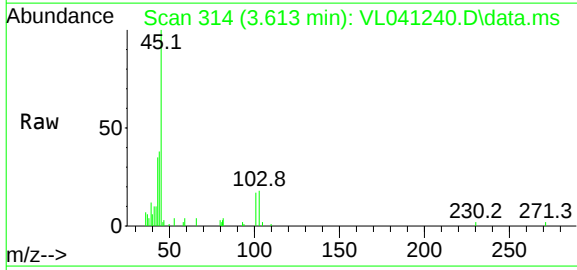
Tgt Ion: 96 Resp: 16668
Ion Ratio Lower Upper
96 100
61 195.7 164.4 246.6
98 43.5 51.8 77.8#





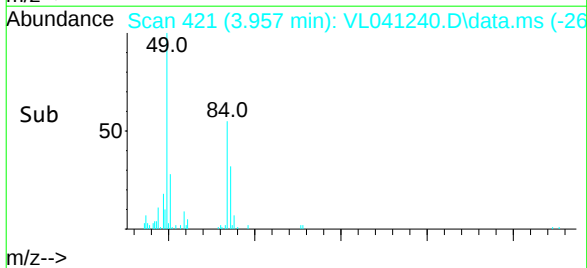
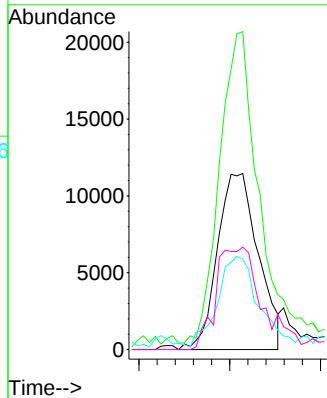
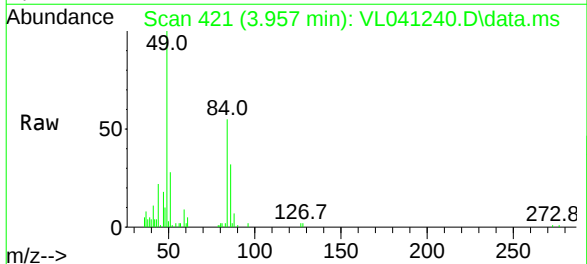
#19
Isopropyl Alcohol
Concen: 0.449 ppbv m
RT: 3.613 min Scan# 314
Delta R.T. 0.023 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

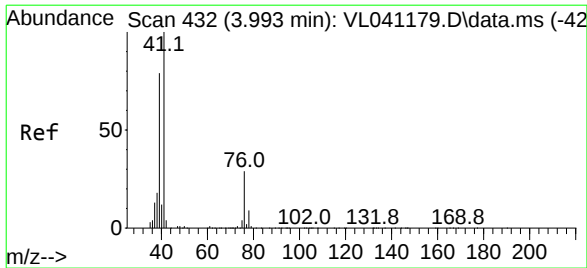
Tgt Ion: 45 Resp: 28731
Ion Ratio Lower Upper
45 100
58 3.5 26.8 40.2#



#20
Methylene Chloride
Concen: 0.528 ppbv
RT: 3.957 min Scan# 421
Delta R.T. 0.006 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

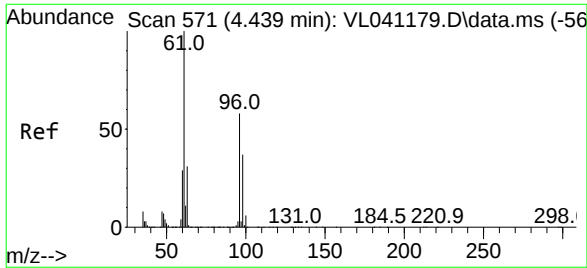
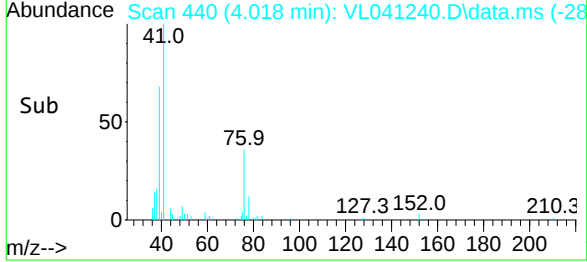
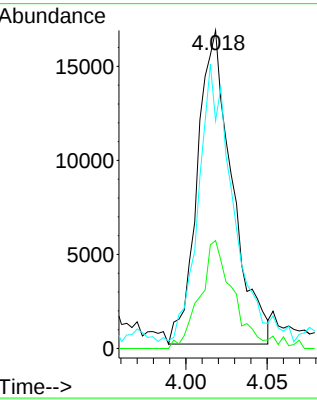
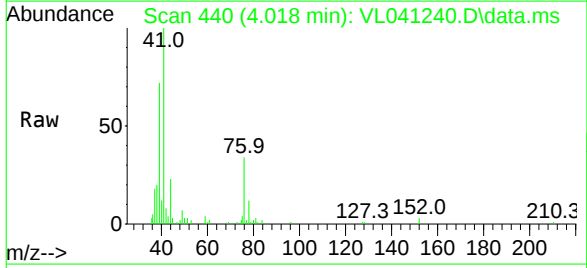
Tgt Ion: 84 Resp: 17887
Ion Ratio Lower Upper
84 100
49 177.0 130.4 195.6
51 47.7 38.0 57.0
86 58.2 50.3 75.5





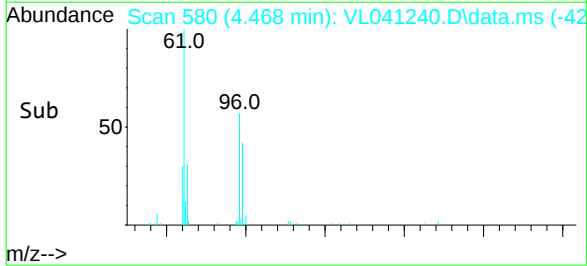
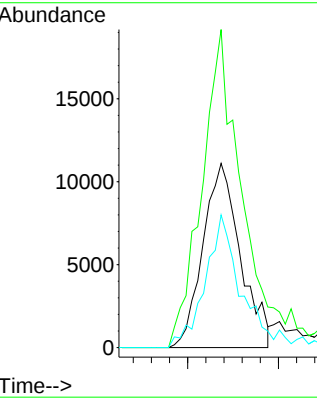
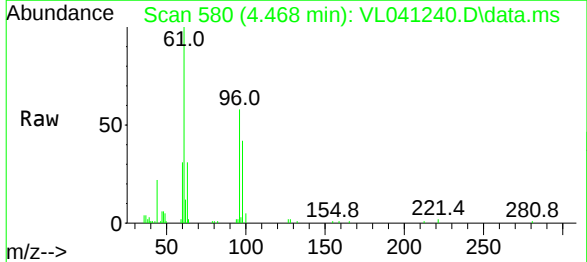
#21
 Allyl Chloride
 Concen: 0.392 ppbv
 RT: 4.018 min Scan# 440
 Delta R.T. 0.003 min
 Lab File: VL041240.D
 Acq: 8 May 2024 12:35

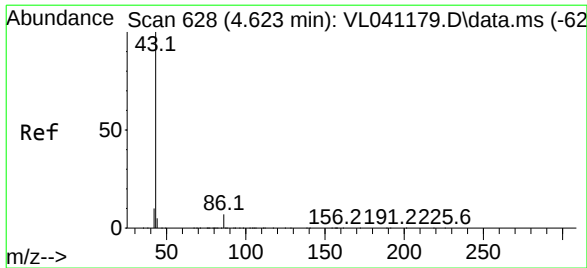
Tgt Ion	Ratio	Lower	Upper
41	100		
76	34.2	23.7	35.5
39	92.2	64.7	97.1



#22
 trans-1,2-Dichloroethene
 Concen: 0.409 ppbv
 RT: 4.468 min Scan# 580
 Delta R.T. 0.006 min
 Lab File: VL041240.D
 Acq: 8 May 2024 12:35

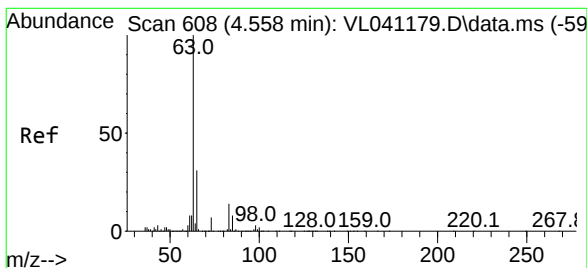
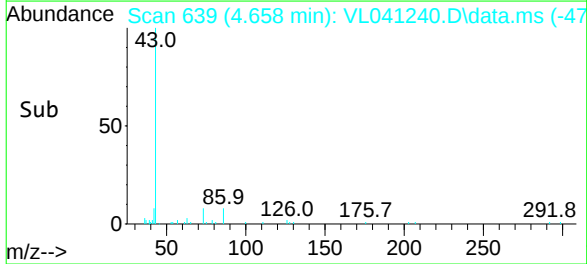
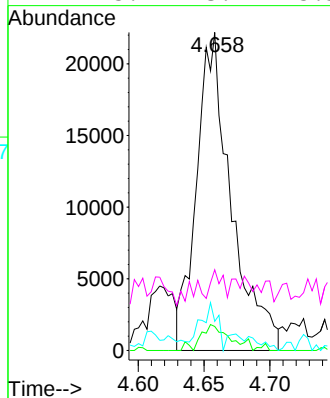
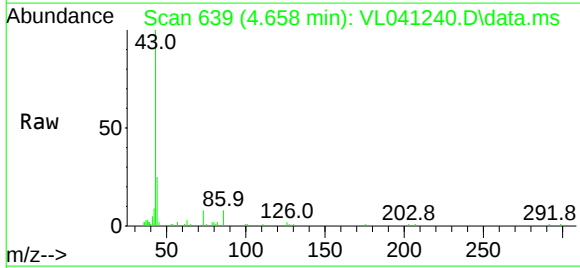
Tgt Ion	Ratio	Lower	Upper
96	100		
61	172.7	137.6	206.4
98	72.0	50.6	76.0





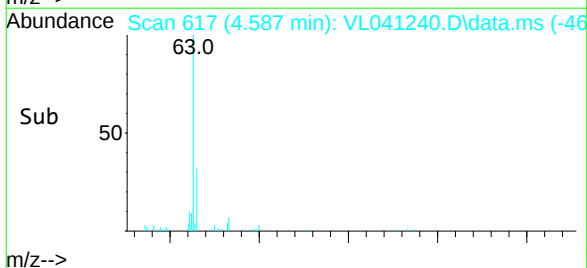
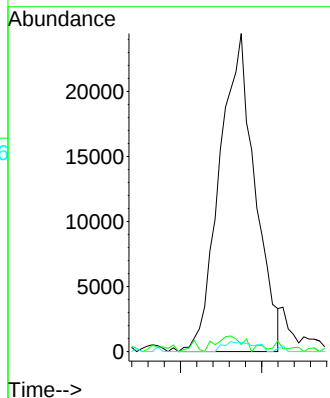
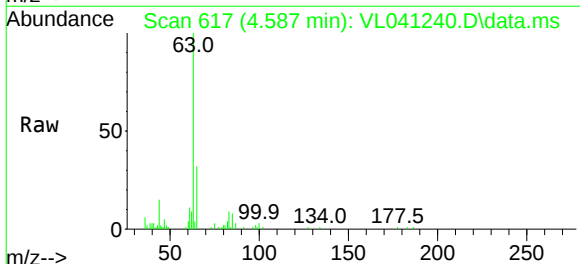
#23
 Vinyl Acetate
 Concen: 0.380 ppbv m
 RT: 4.658 min Scan# 639
 Delta R.T. 0.013 min
 Lab File: VL041240.D
 Acq: 8 May 2024 12:35

Tgt Ion	Ratio	Lower	Upper
43	100		
86	7.5	4.9	7.3#
42	9.2	8.0	12.0
44	25.4	3.7	5.5#

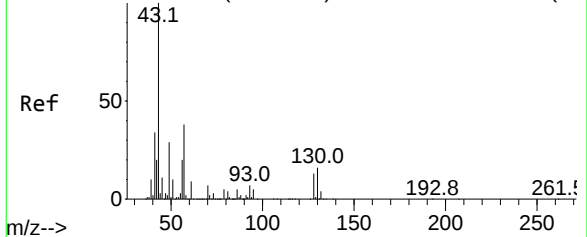


#24
 1,1-Dichloroethane
 Concen: 0.443 ppbv
 RT: 4.587 min Scan# 617
 Delta R.T. 0.003 min
 Lab File: VL041240.D
 Acq: 8 May 2024 12:35

Tgt Ion	Ratio	Lower	Upper
63	100		
98	2.2	1.6	4.8
100	2.9	1.1	3.5



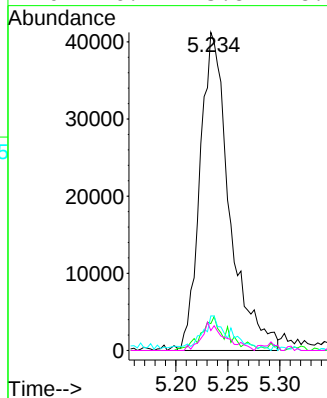
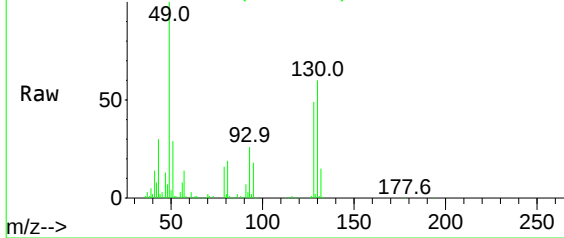
Abundance Scan 808 (5.202 min): VL041179.D\data.ms (-79



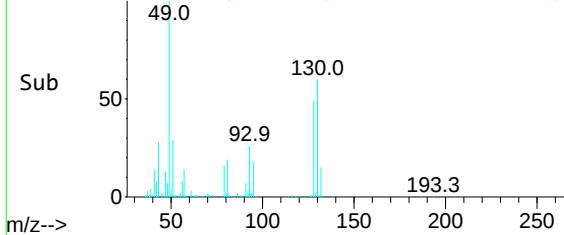
#25
Ethyl Acetate
Concen: 0.416 ppbv m
RT: 5.234 min Scan# 818
Delta R.T. 0.013 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

Tgt Ion	Ratio	Lower	Upper
43	100		
45	10.2	8.2	12.2
61	10.7	7.7	11.5
70	6.9	5.8	8.6

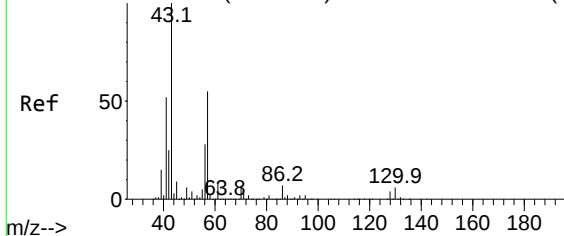
Abundance Scan 818 (5.234 min): VL041240.D\data.ms



Abundance Scan 818 (5.234 min): VL041240.D\data.ms (-65



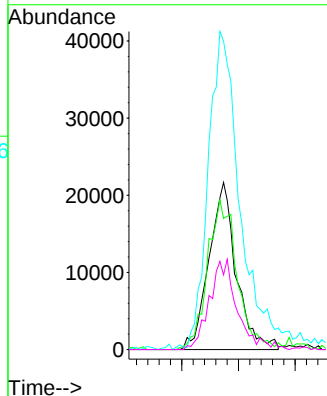
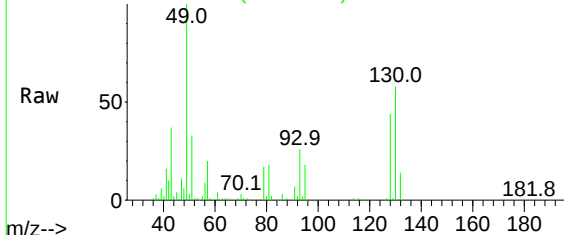
Abundance Scan 810 (5.208 min): VL041179.D\data.ms (-79



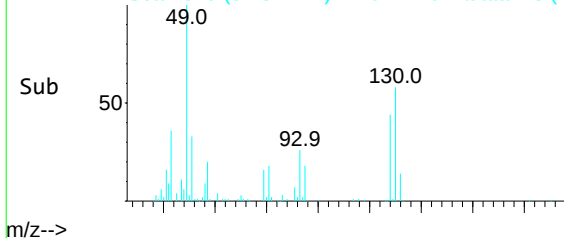
#26
Hexane
Concen: 0.416 ppbv m
RT: 5.237 min Scan# 819
Delta R.T. 0.006 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

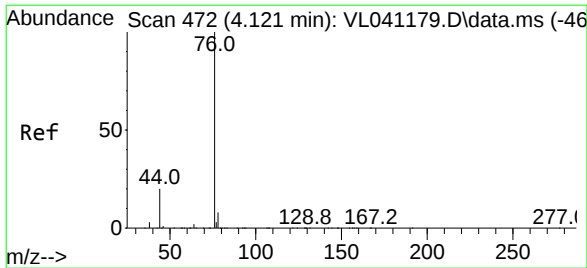
Tgt Ion	Ratio	Lower	Upper
57	100		
41	97.2	75.8	113.8
43	231.8	187.0	280.4
56	55.8	42.7	64.1

Abundance Scan 819 (5.237 min): VL041240.D\data.ms



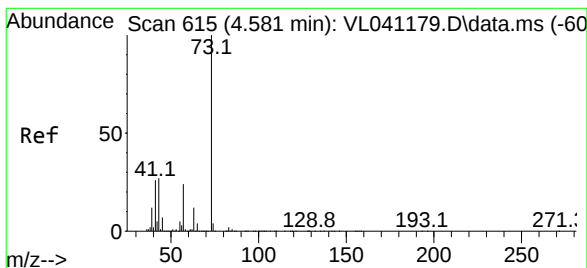
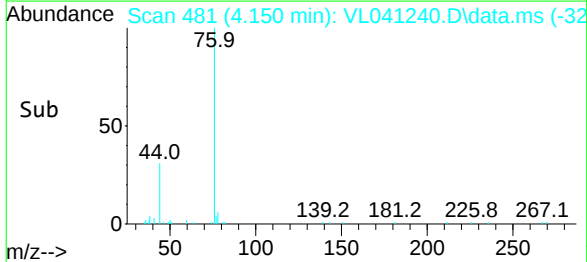
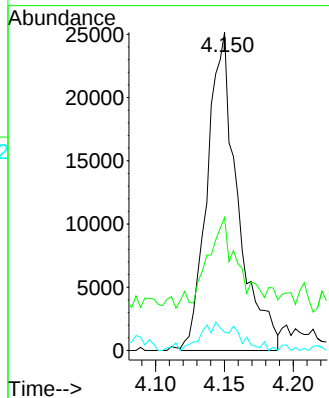
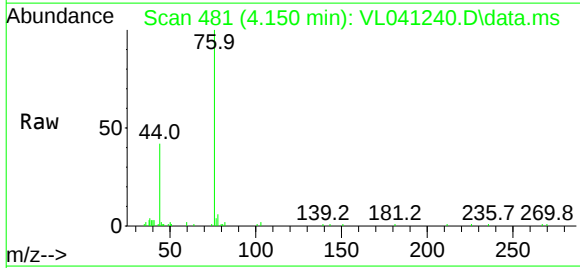
Abundance Scan 819 (5.237 min): VL041240.D\data.ms (-66





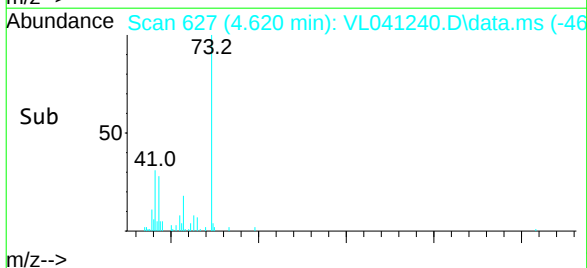
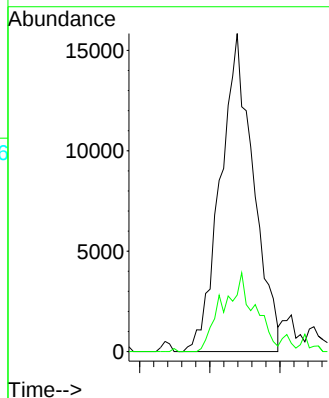
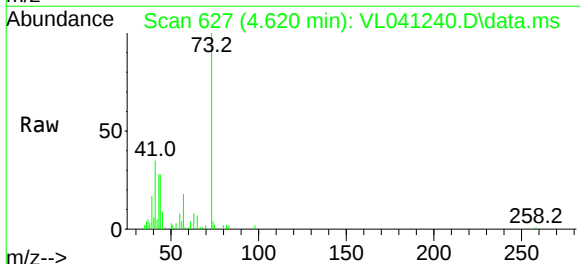
#27
Carbon Disulfide
Concen: 0.376 ppbv m
RT: 4.150 min Scan# 481
Delta R.T. 0.010 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

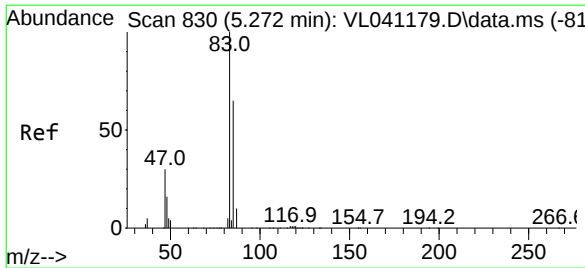
Tgt Ion	Ratio	Lower	Upper
76	100		
44	38.3	16.3	24.5#
78	10.8	7.3	10.9



#28
Methyl tert-Butyl Ether
Concen: 0.374 ppbv
RT: 4.620 min Scan# 627
Delta R.T. 0.016 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

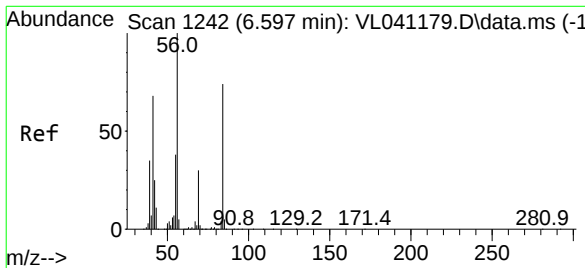
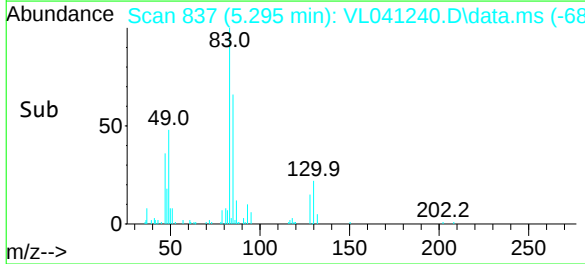
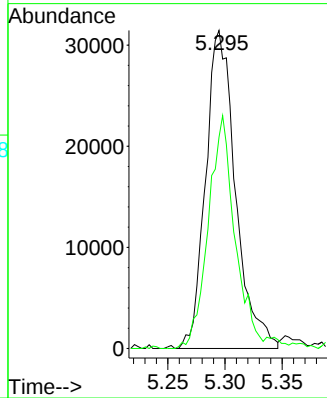
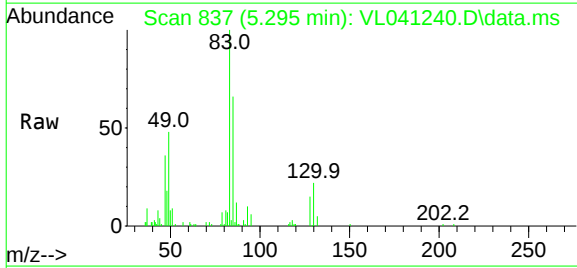
Tgt Ion	Ratio	Lower	Upper
73	100		
57	27.2	18.8	28.2





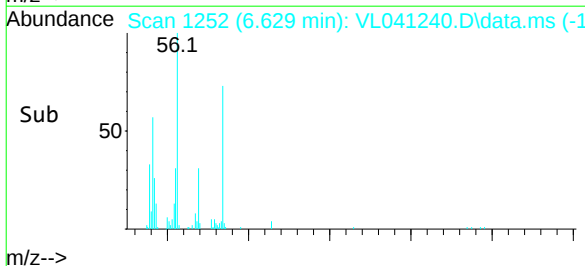
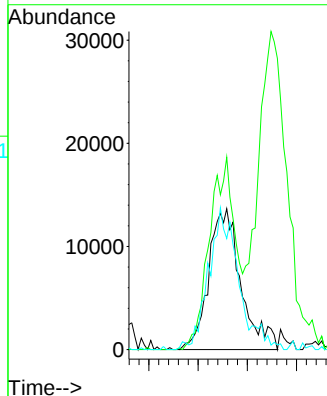
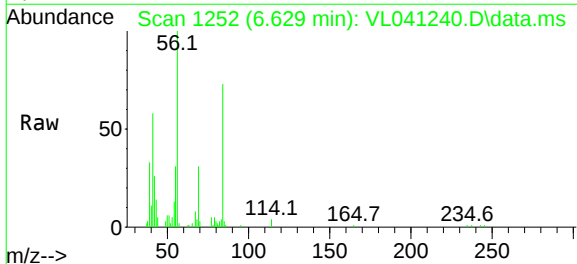
#29
Chloroform
Concen: 0.478 ppbv
RT: 5.295 min Scan# 837
Delta R.T. 0.000 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

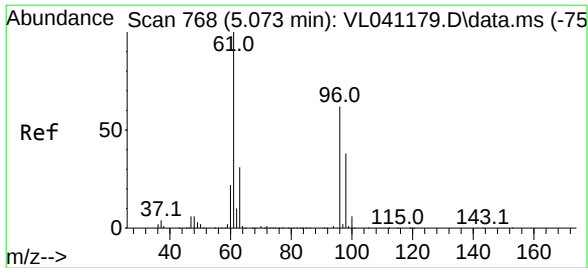
Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.8	51.7	77.5



#30
Cyclohexane
Concen: 0.451 ppbv m
RT: 6.629 min Scan# 1252
Delta R.T. 0.006 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

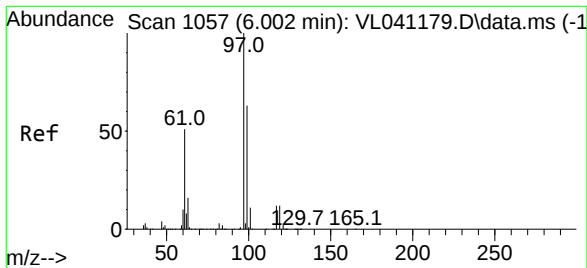
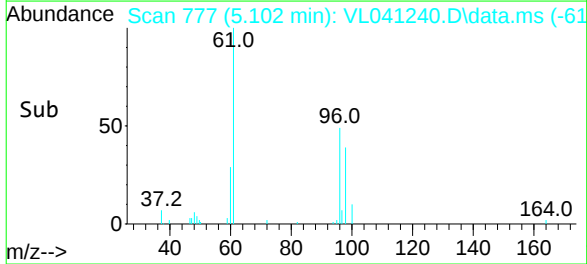
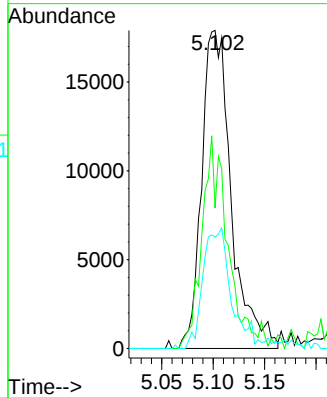
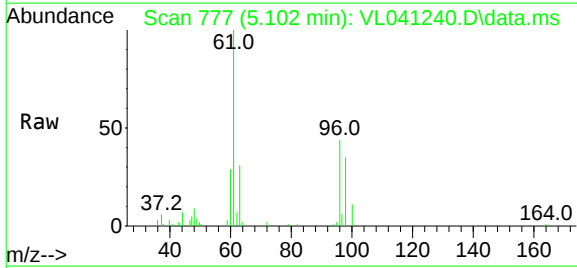
Tgt Ion	Ratio	Lower	Upper
84	100		
56	115.2	116.8	175.2#
41	0.0	73.8	110.8#





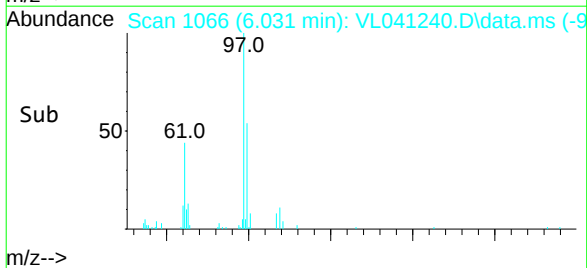
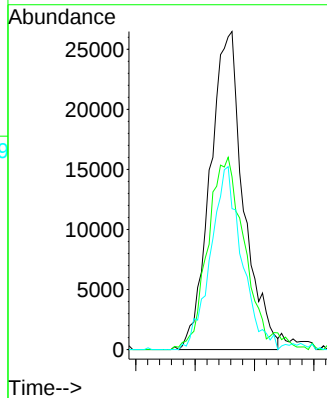
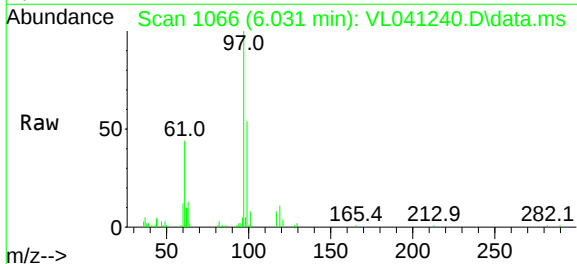
#31
cis-1,2-Dichloroethene
Concen: 0.442 ppbv m
RT: 5.102 min Scan# 777
Delta R.T. 0.006 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

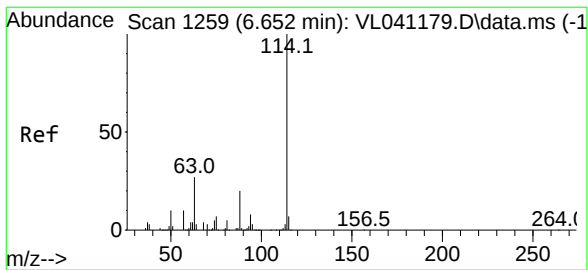
Tgt Ion	Ratio	Lower	Upper
61	100		
96	44.1	49.8	74.6#
98	35.0	30.0	45.0



#32
1,1,1-Trichloroethane
Concen: 0.433 ppbv
RT: 6.031 min Scan# 1066
Delta R.T. 0.010 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

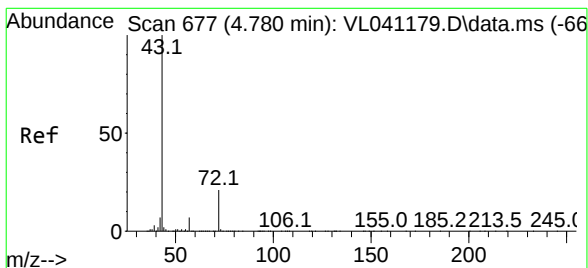
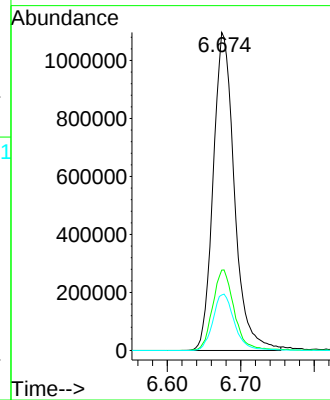
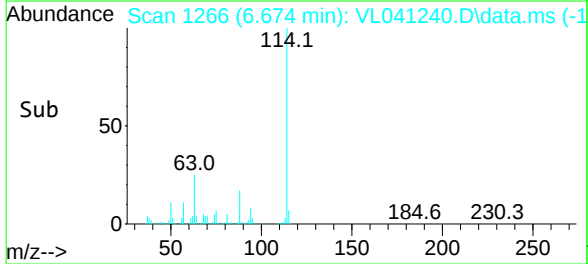
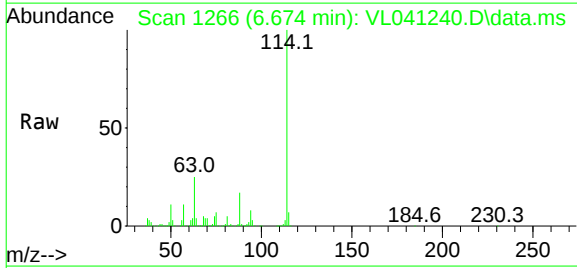
Tgt Ion	Ratio	Lower	Upper
97	100		
99	67.9	51.7	77.5
61	55.4	41.1	61.7





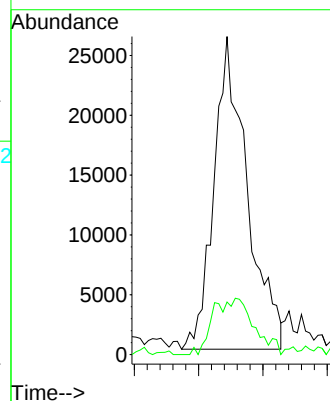
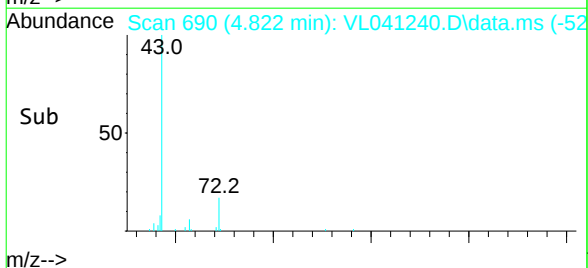
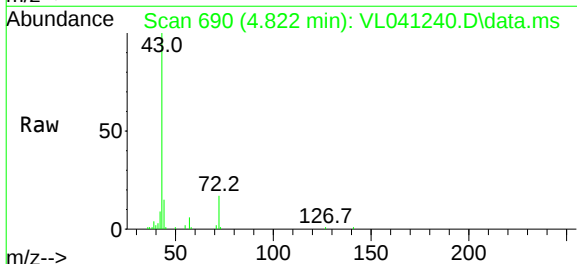
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.674 min Scan# 1266
Delta R.T. 0.000 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

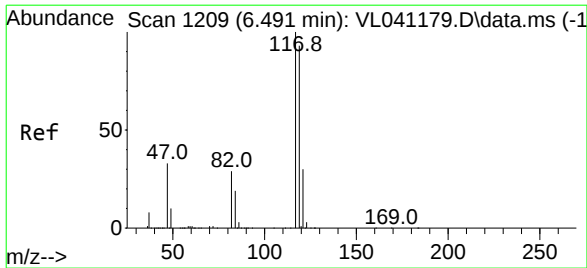
Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.0	21.8	32.6
88	18.1	15.2	22.8



#34
2-Butanone
Concen: 0.420 ppbv
RT: 4.822 min Scan# 690
Delta R.T. 0.019 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

Tgt Ion	Ratio	Lower	Upper
43	100		
72	24.1	17.3	25.9





#35

Carbon Tetrachloride

Concen: 0.419 ppbv m

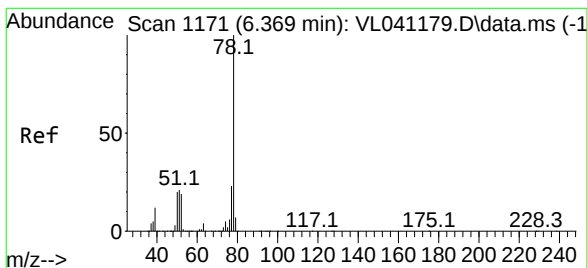
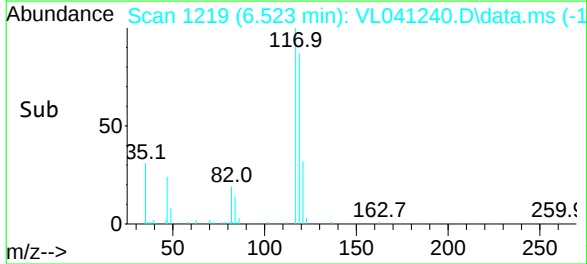
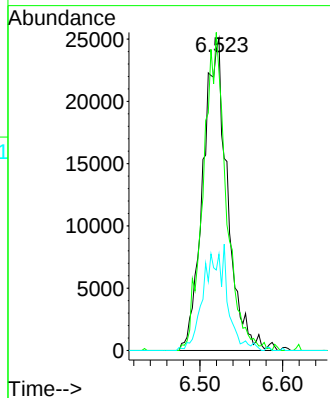
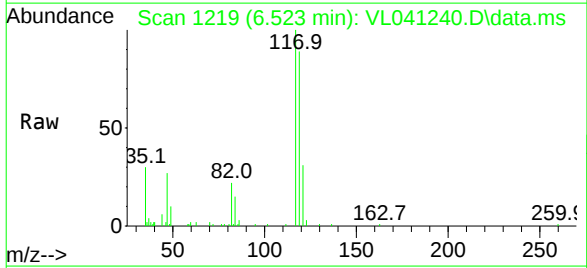
RT: 6.523 min Scan# 1219

Delta R.T. 0.010 min

Lab File: VL041240.D

Acq: 8 May 2024 12:35

Tgt Ion:	117	Resp:	51614
Ion	Ratio	Lower	Upper
117	100		
119	89.3	74.3	111.5
121	30.8	23.8	35.8



#36

Benzene

Concen: 0.406 ppbv m

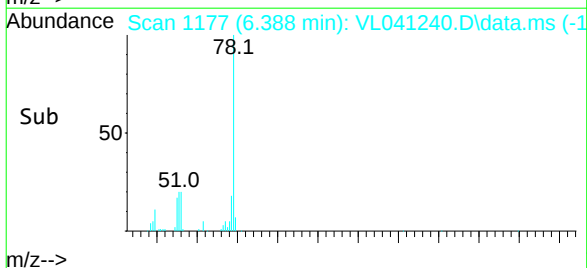
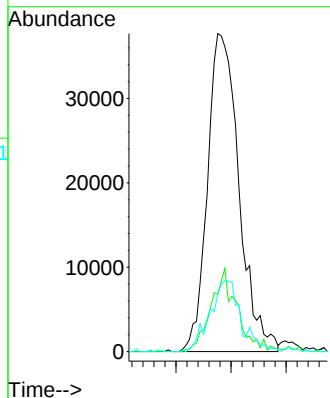
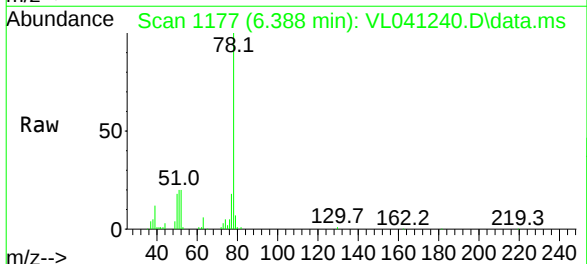
RT: 6.388 min Scan# 1177

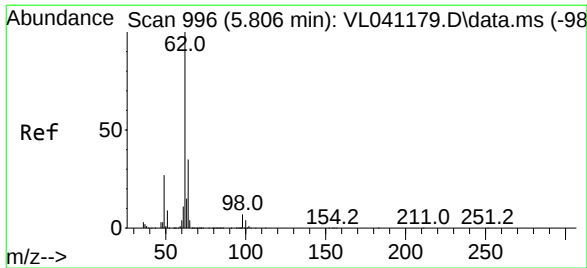
Delta R.T. -0.003 min

Lab File: VL041240.D

Acq: 8 May 2024 12:35

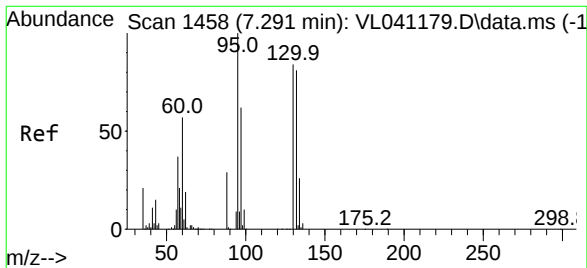
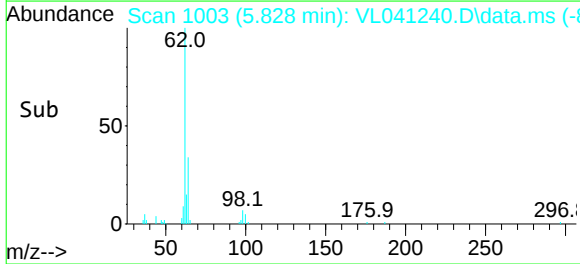
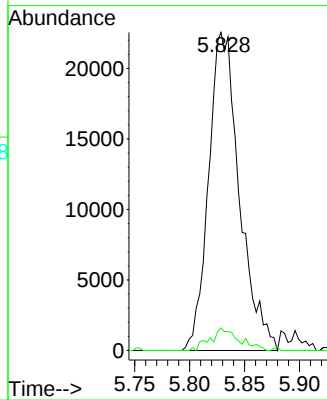
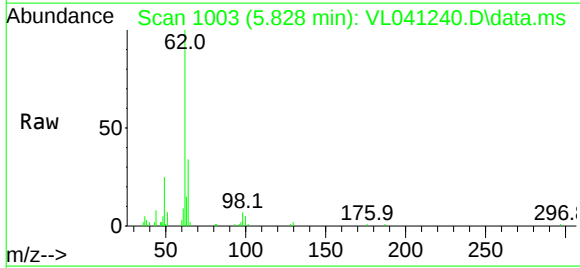
Tgt Ion:	78	Resp:	74799
Ion	Ratio	Lower	Upper
78	100		
77	18.1	18.3	27.5#
50	18.0	15.9	23.9





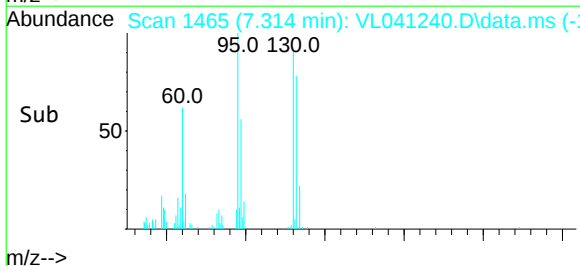
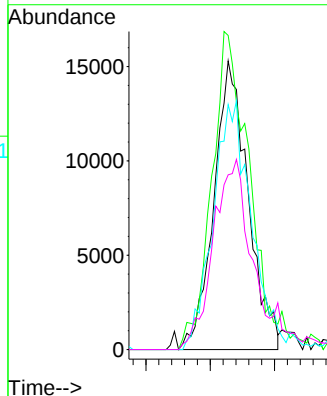
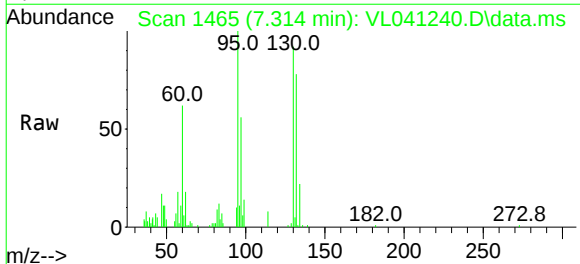
#37
1,2-Dichloroethane
Concen: 0.458 ppbv m
RT: 5.828 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

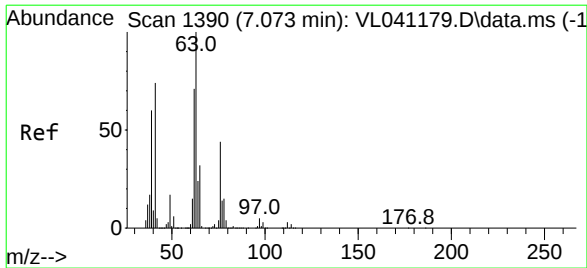
Tgt Ion: 62 Resp: 44026
Ion Ratio Lower Upper
62 100
98 6.7 5.0 7.4



#38
Trichloroethene
Concen: 0.411 ppbv
RT: 7.314 min Scan# 1465
Delta R.T. 0.003 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

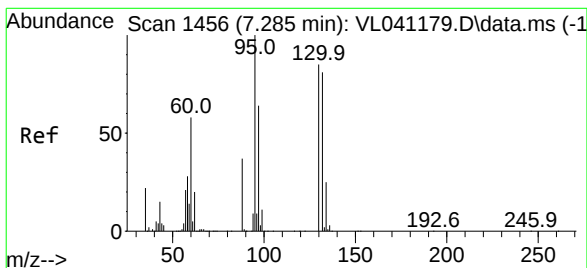
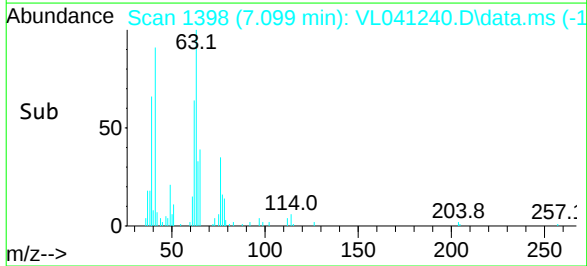
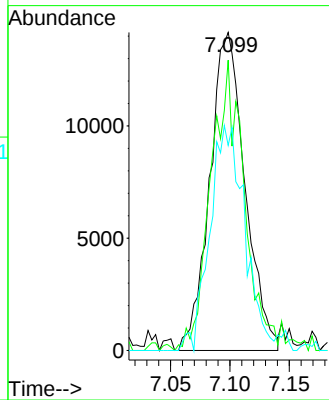
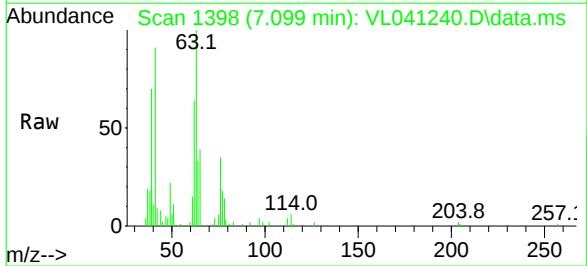
Tgt Ion: 130 Resp: 28222
Ion Ratio Lower Upper
130 100
95 108.8 95.0 142.6
132 84.9 77.0 115.4
97 60.6 59.1 88.7





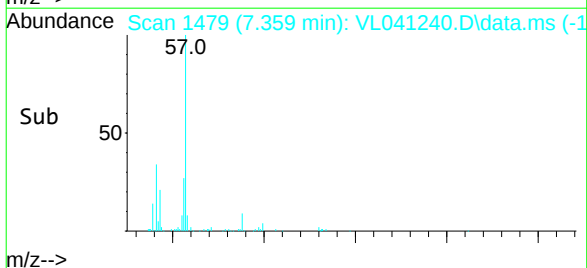
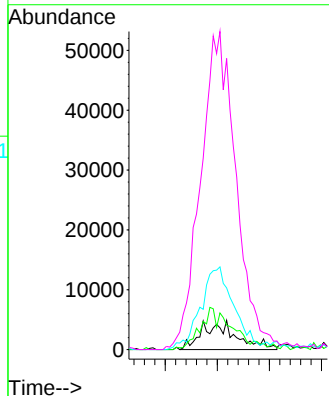
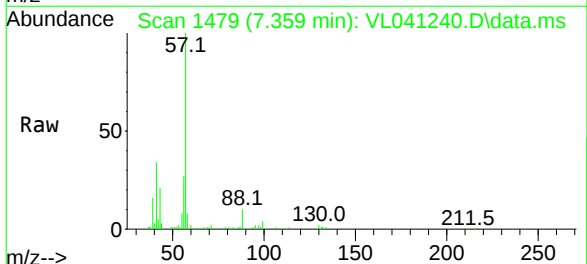
#39
1,2-Dichloropropane
Concen: 0.412 ppbv
RT: 7.099 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

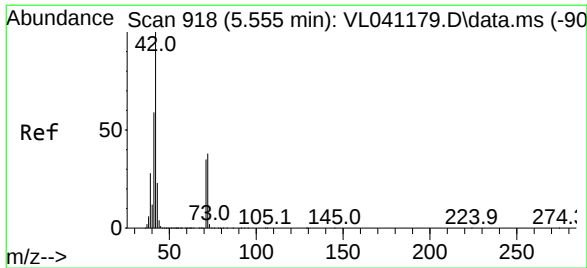
Tgt Ion	Ratio	Lower	Upper
63	100		
41	89.6	59.4	89.0#
62	64.5	56.8	85.2



#40
1,4-Dioxane
Concen: 0.430 ppbv m
RT: 7.359 min Scan# 1479
Delta R.T. 0.058 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

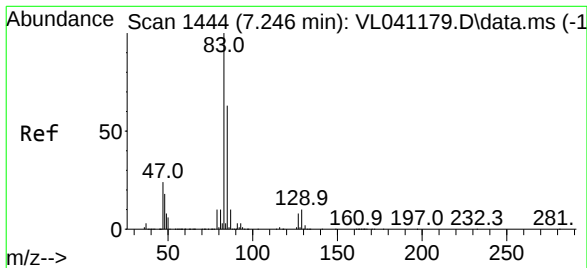
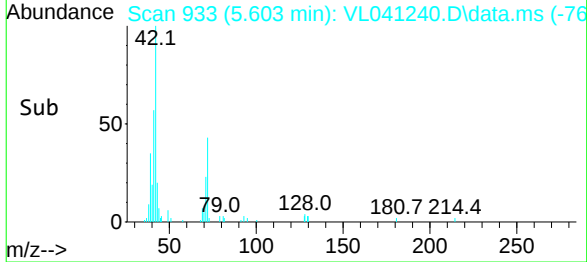
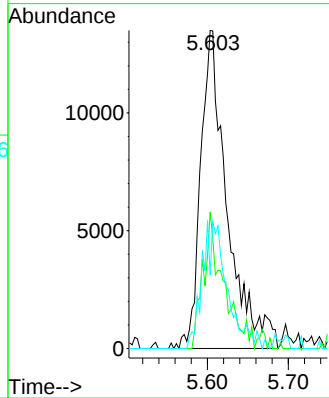
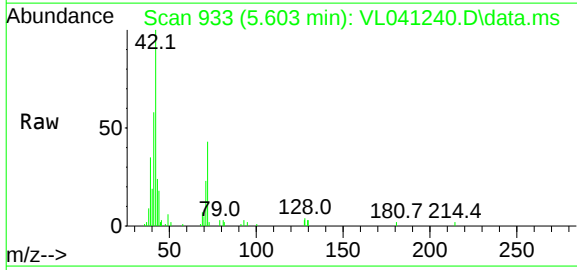
Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	106.1	159.1#
43	0.0	219.8	329.6#
57	0.0	936.0	1404.0#





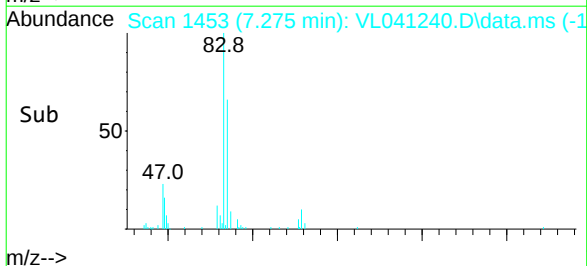
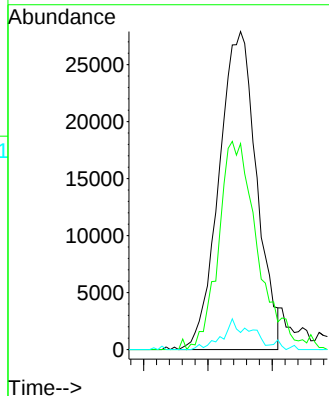
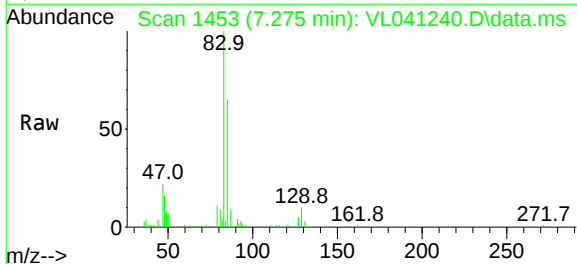
#41
Tetrahydrofuran
Concen: 0.379 ppbv m
RT: 5.603 min Scan# 933
Delta R.T. 0.026 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

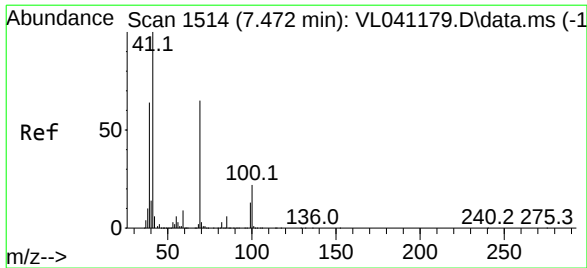
Tgt Ion	Ratio	Lower	Upper
42	100		
72	34.7	29.4	44.0
71	38.0	29.1	43.7



#42
Bromodichloromethane
Concen: 0.410 ppbv
RT: 7.275 min Scan# 1453
Delta R.T. 0.006 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

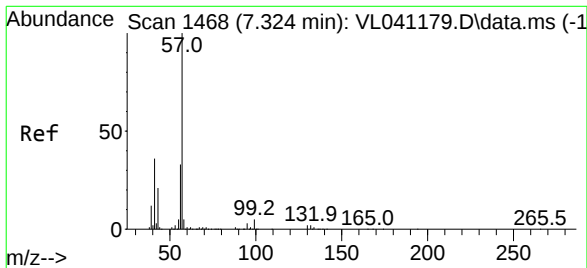
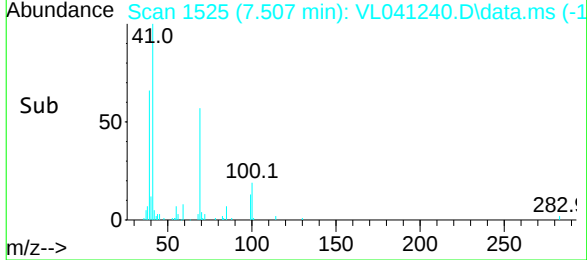
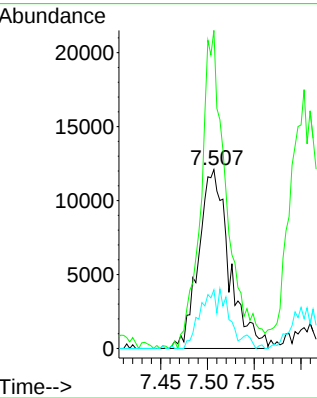
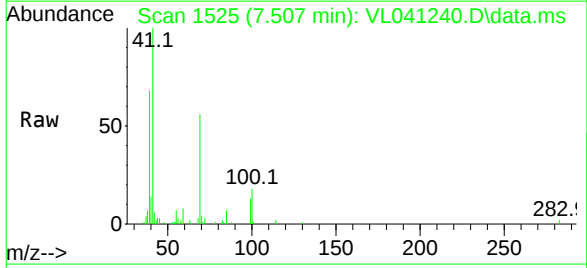
Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.8	50.6	75.8
127	6.2	6.2	9.4





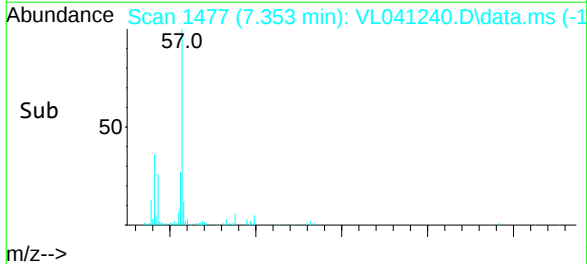
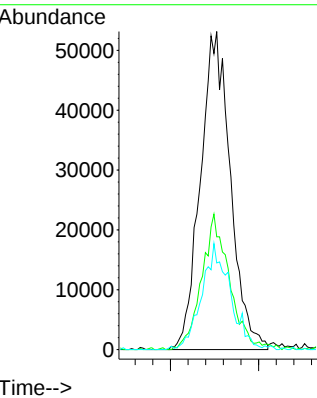
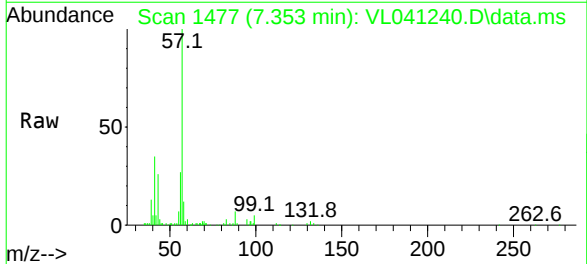
#43
Methyl Methacrylate
Concen: 0.369 ppbv m
RT: 7.507 min Scan# 1525
Delta R.T. 0.013 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

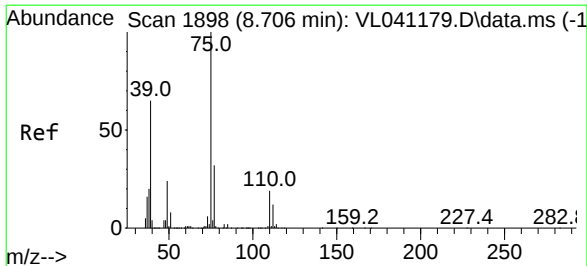
Tgt Ion: 69 Resp: 27486
Ion Ratio Lower Upper
69 100
41 151.6 125.2 187.8
100 0.0 26.7 40.1#



#44
2,2,4-Trimethylpentane
Concen: 0.396 ppbv
RT: 7.353 min Scan# 1477
Delta R.T. 0.006 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

Tgt Ion: 57 Resp: 125746
Ion Ratio Lower Upper
57 100
41 39.7 29.5 44.3
56 31.7 25.3 37.9





#45

t-1,3-Dichloropropene

Concen: 0.288 ppbv m

RT: 8.745 min Scan# 1910

Delta R.T. 0.013 min

Lab File: VL041240.D

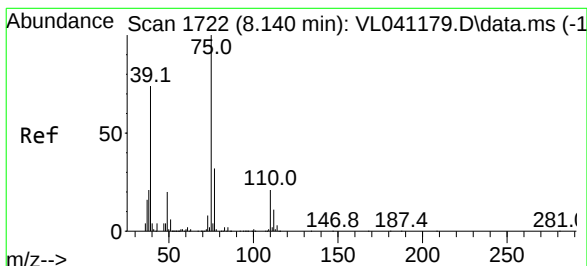
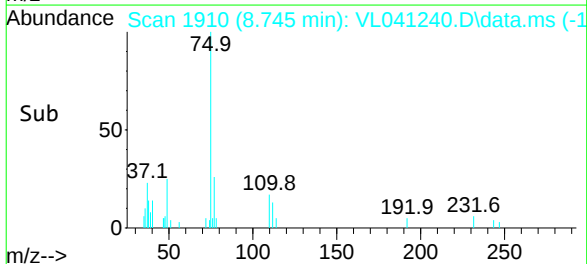
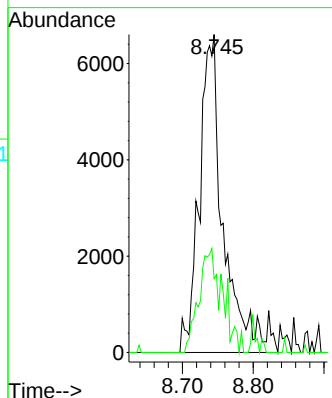
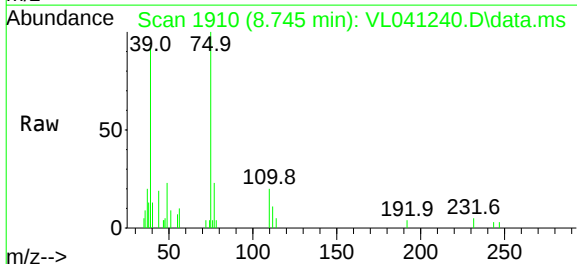
Acq: 8 May 2024 12:35

Tgt Ion: 75 Resp: 15554

Ion Ratio Lower Upper

75 100

77 23.2 25.6 38.4#



#46

cis-1,3-Dichloropropene

Concen: 0.344 ppbv m

RT: 8.169 min Scan# 1731

Delta R.T. 0.006 min

Lab File: VL041240.D

Acq: 8 May 2024 12:35

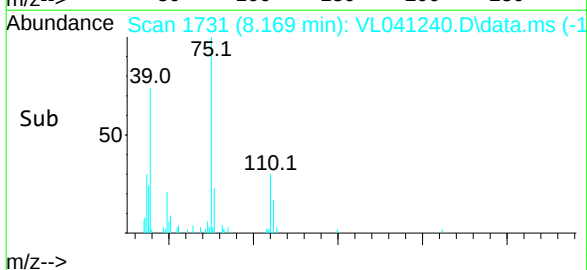
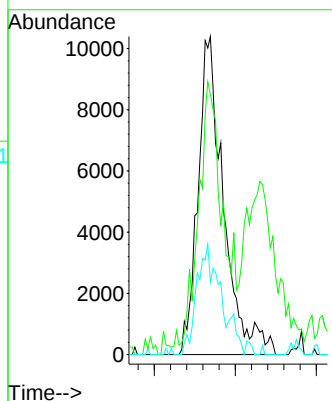
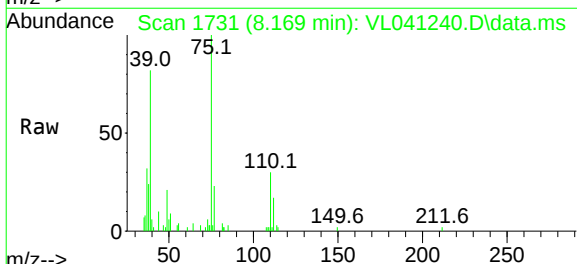
Tgt Ion: 75 Resp: 22727

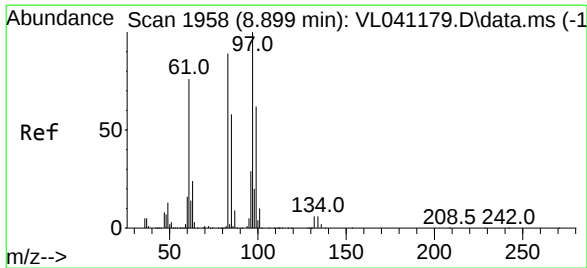
Ion Ratio Lower Upper

75 100

39 81.9 59.4 89.2

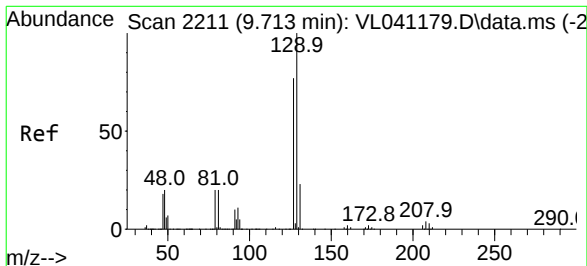
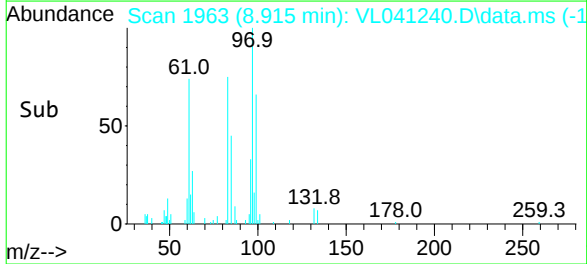
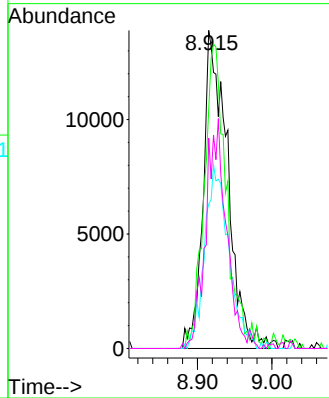
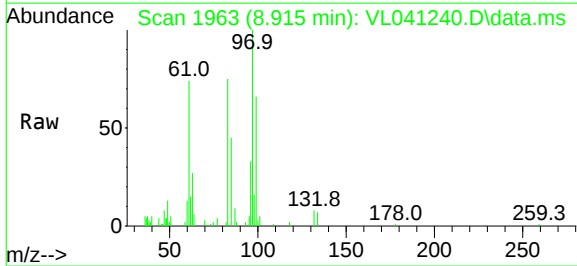
77 22.8 25.9 38.9#





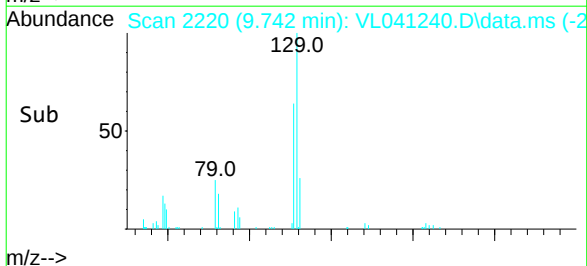
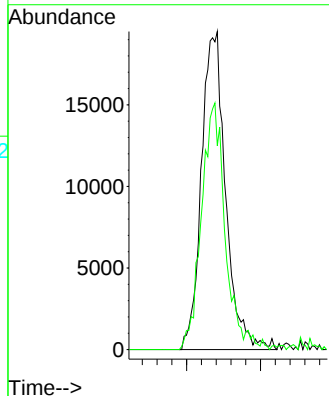
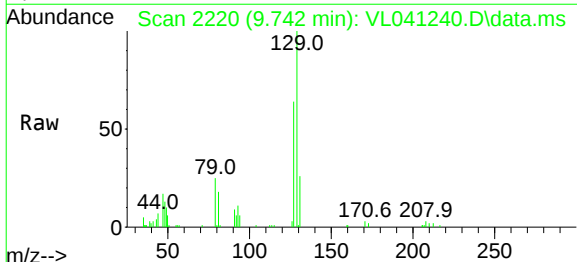
#47
1,1,2-Trichloroethane
Concen: 0.441 ppbv m
RT: 8.915 min Scan# 1963
Delta R.T. -0.006 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

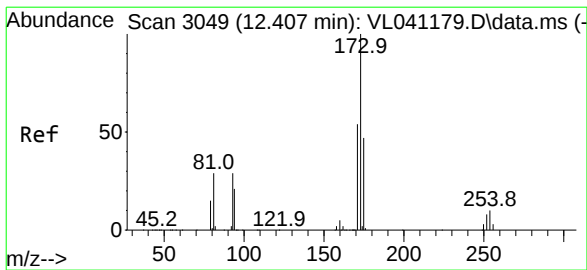
Tgt Ion	Ratio	Lower	Upper
97	100		
83	75.3	71.2	106.8
85	45.4	46.0	69.0#
99	66.1	49.7	74.5



#48
Dibromochloromethane
Concen: 0.391 ppbv m
RT: 9.742 min Scan# 2220
Delta R.T. 0.010 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

Tgt Ion	Ratio	Lower	Upper
129	100		
127	0.0	39.1	117.5#





#49

Bromoform

Concen: 0.330 ppbv m

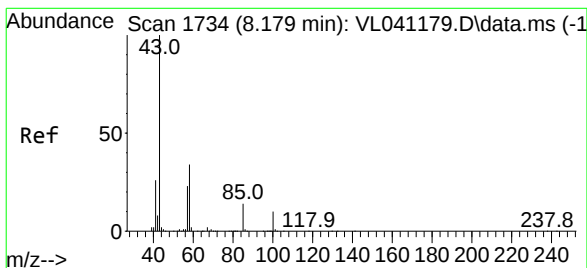
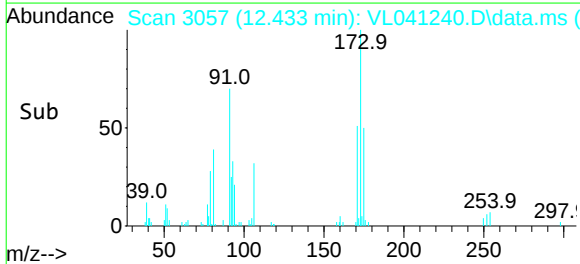
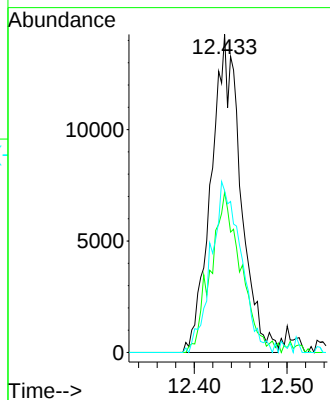
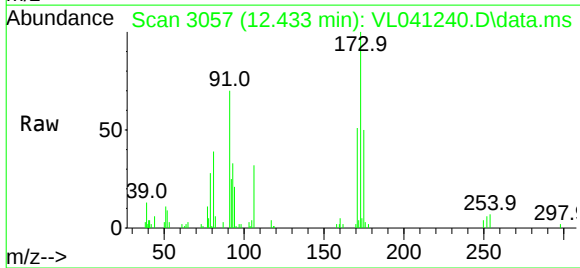
RT: 12.433 min Scan# 3057

Delta R.T. 0.003 min

Lab File: VL041240.D

Acq: 8 May 2024 12:35

Tgt Ion:	173	Resp:	31810
Ion	Ratio	Lower	Upper
173	100		
175	50.9	39.8	59.8
171	55.6	41.8	62.8



#50

4-Methyl-2-Pentanone

Concen: 0.385 ppbv m

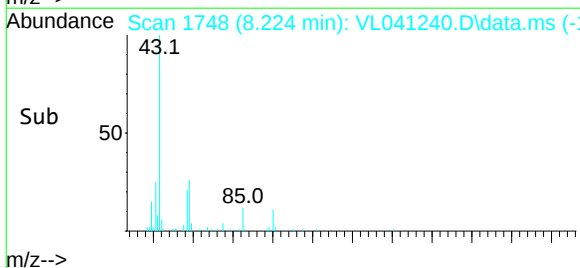
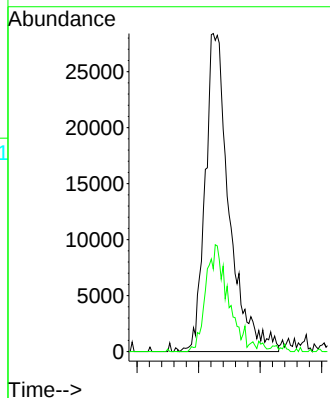
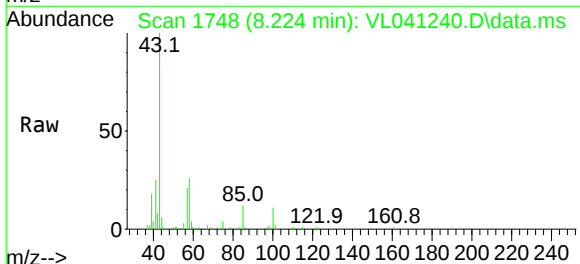
RT: 8.224 min Scan# 1748

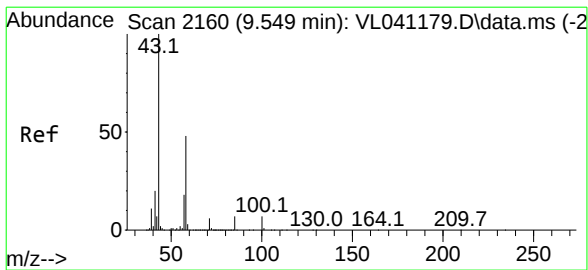
Delta R.T. 0.023 min

Lab File: VL041240.D

Acq: 8 May 2024 12:35

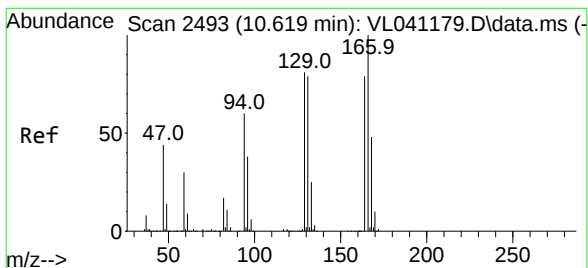
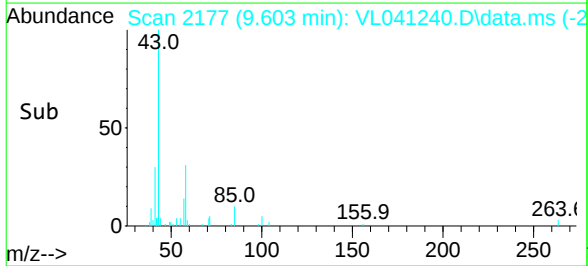
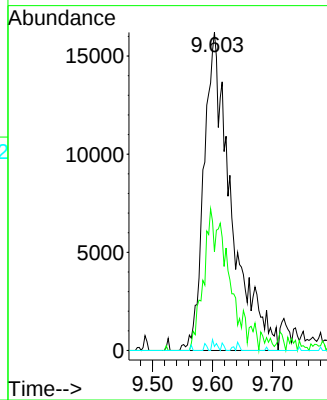
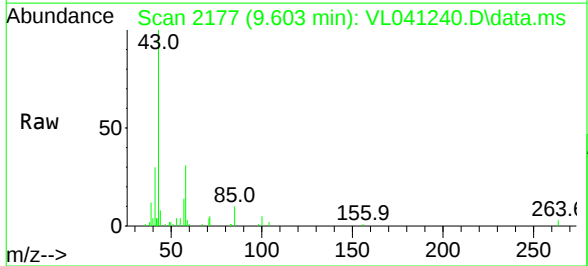
Tgt Ion:	43	Resp:	77172
Ion	Ratio	Lower	Upper
43	100		
58	0.0	27.7	41.5





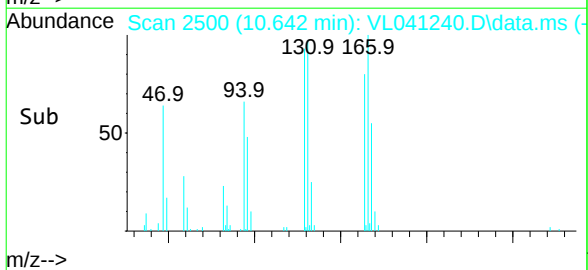
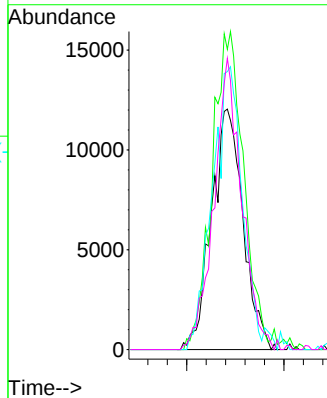
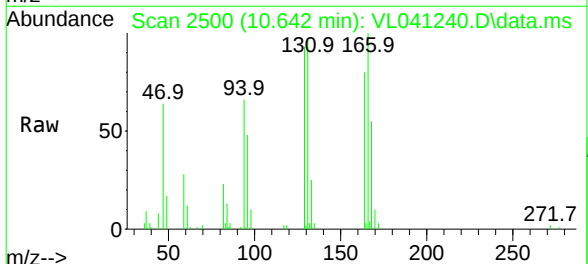
#51
2-Hexanone
Concen: 0.345 ppbv m
RT: 9.603 min Scan# 2177
Delta R.T. 0.035 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

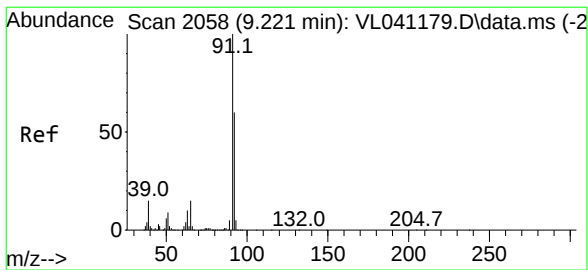
Tgt Ion	Ratio	Lower	Upper
43	100		
58	43.4	38.4	57.6
98	1.3	0.0	0.0#



#52
Tetrachloroethene
Concen: 0.420 ppbv m
RT: 10.642 min Scan# 2500
Delta R.T. 0.006 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

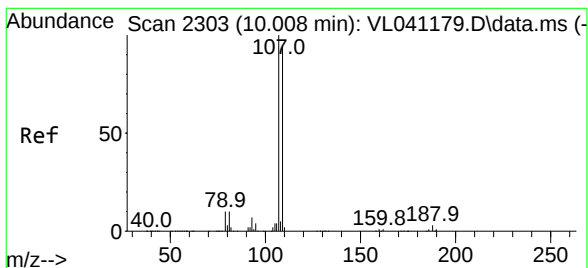
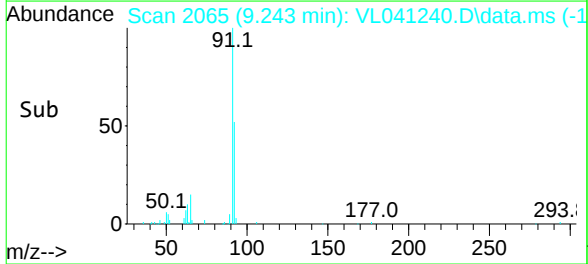
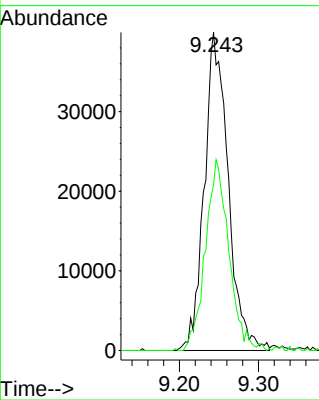
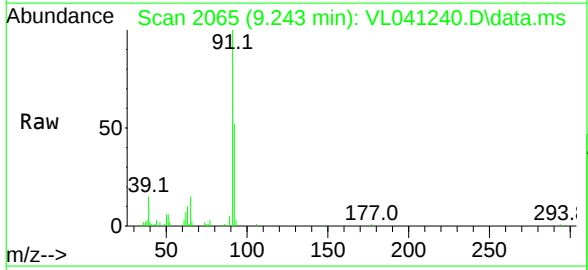
Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.8	101.1	151.7
129	115.6	81.7	122.5
131	121.1	80.4	120.6#





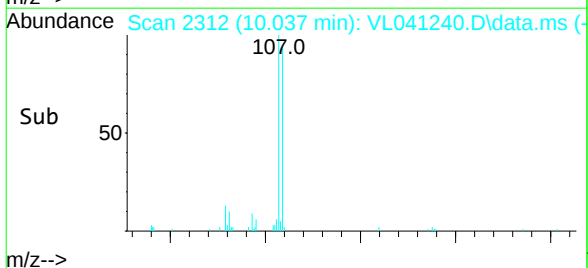
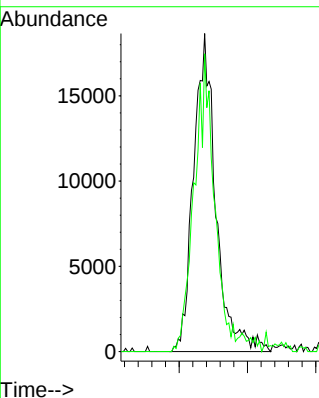
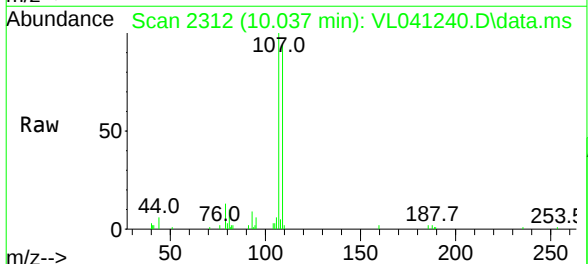
#53
Toluene
Concen: 0.391 ppbv m
RT: 9.243 min Scan# 2065
Delta R.T. 0.003 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

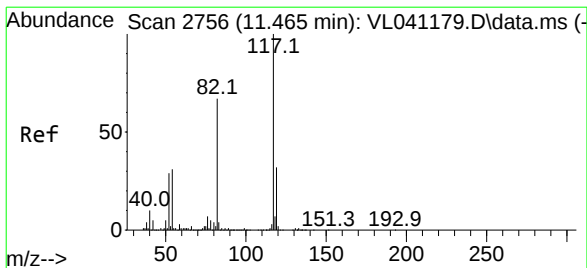
Tgt Ion: 91 Resp: 83498
Ion Ratio Lower Upper
91 100
92 59.9 48.2 72.4



#54
1,2-Dibromoethane
Concen: 0.440 ppbv m
RT: 10.037 min Scan# 2312
Delta R.T. 0.006 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

Tgt Ion: 107 Resp: 42391
Ion Ratio Lower Upper
107 100
109 93.7 75.2 112.8





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.491 min Scan# 2764

Delta R.T. 0.003 min

Lab File: VL041240.D

Acq: 8 May 2024 12:35

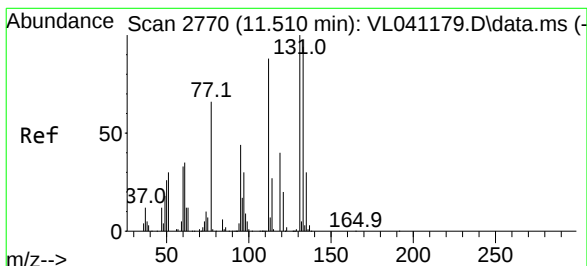
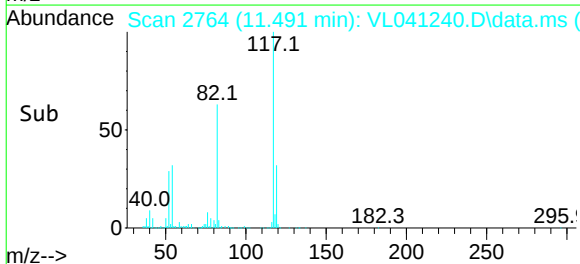
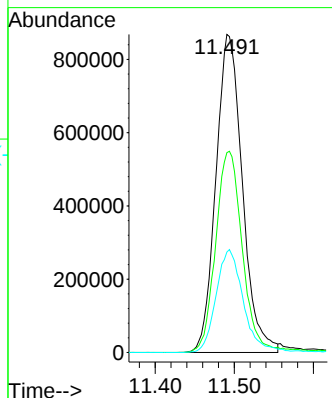
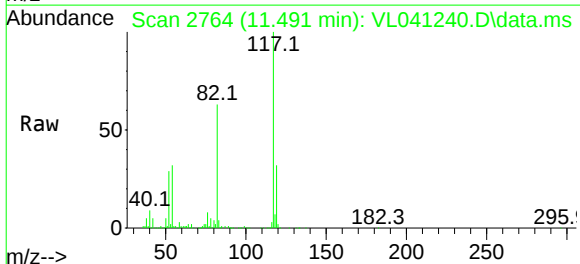
Tgt Ion:117 Resp: 2020525

Ion Ratio Lower Upper

117 100

82 64.9 53.6 80.4

119 33.6 27.2 40.8



#56

1,1,1,2-Tetrachloroethane

Concen: 0.438 ppbv m

RT: 11.539 min Scan# 2779

Delta R.T. 0.010 min

Lab File: VL041240.D

Acq: 8 May 2024 12:35

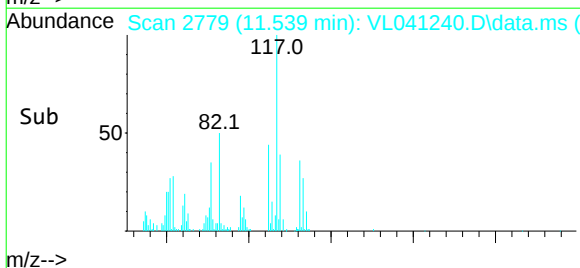
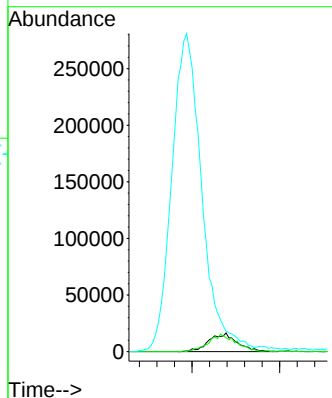
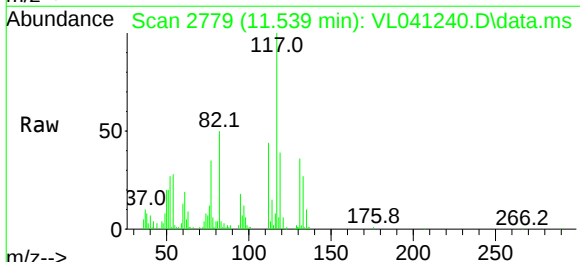
Tgt Ion:131 Resp: 35915

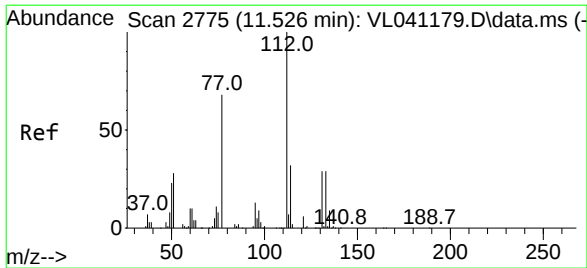
Ion Ratio Lower Upper

131 100

133 92.7 76.3 114.5

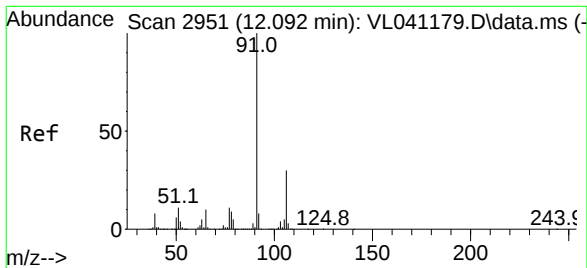
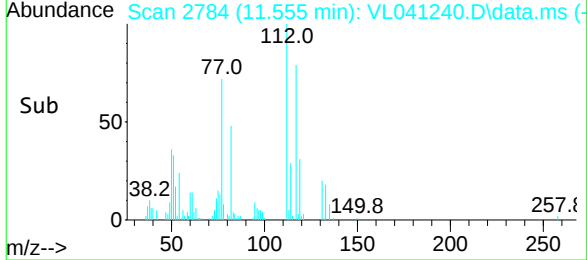
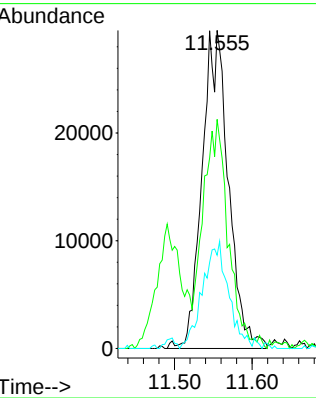
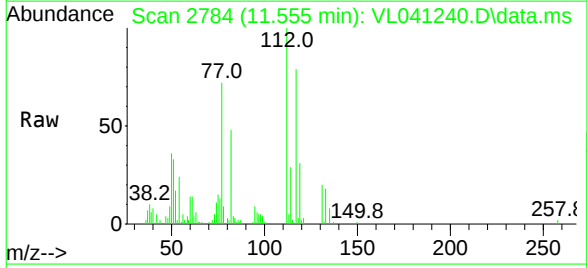
119 0.0 49.4 74.2#





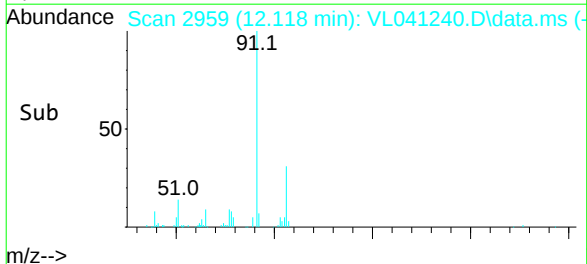
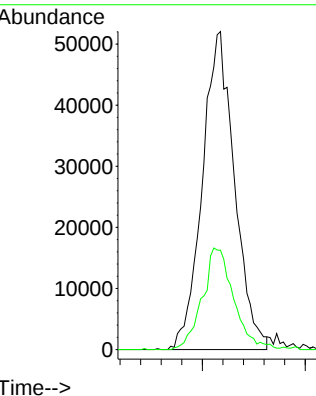
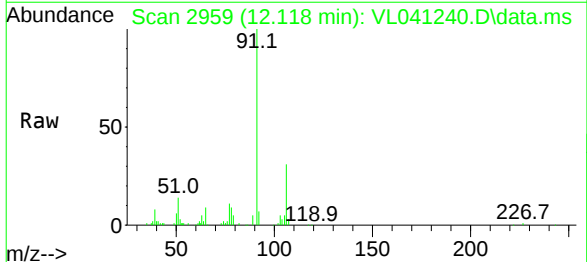
#57
Chlorobenzene
Concen: 0.471 ppbv m
RT: 11.555 min Scan# 2784
Delta R.T. 0.006 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

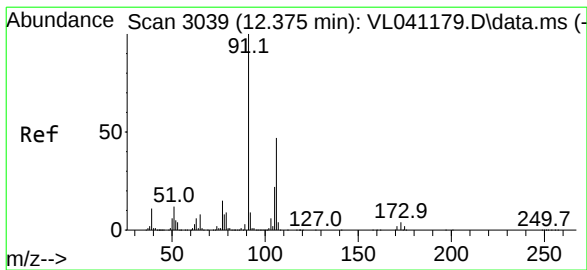
Tgt Ion	Ratio	Lower	Upper
112	100		
77	72.0	54.9	82.3
114	29.3	28.7	35.1



#58
Ethyl Benzene
Concen: 0.408 ppbv
RT: 12.118 min Scan# 2959
Delta R.T. 0.006 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

Tgt Ion	Ratio	Lower	Upper
91	100		
106	31.2	24.3	36.5





#59

m/p-Xylene

Concen: 0.814 ppbv m

RT: 12.397 min Scan# 3046

Delta R.T. 0.006 min

Lab File: VL041240.D

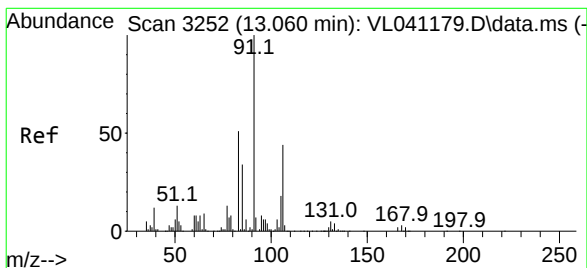
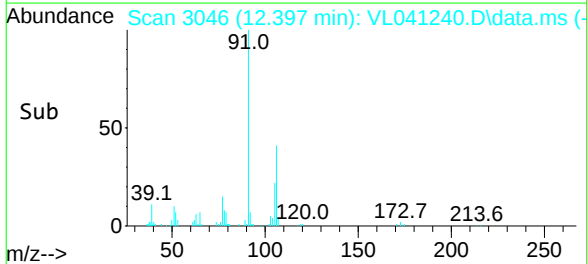
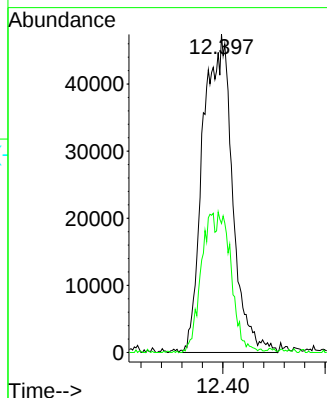
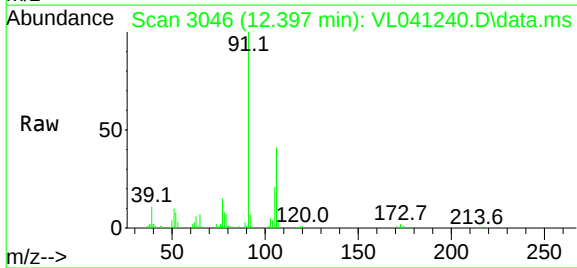
Acq: 8 May 2024 12:35

Tgt Ion: 91 Resp: 189638

Ion Ratio Lower Upper

91 100

106 0.0 35.7 53.5#



#60

o-Xylene

Concen: 0.424 ppbv

RT: 13.089 min Scan# 3261

Delta R.T. 0.010 min

Lab File: VL041240.D

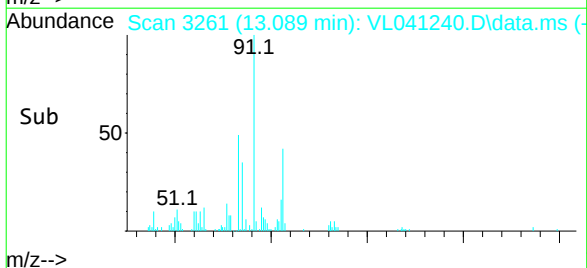
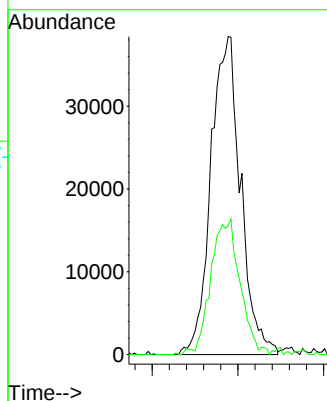
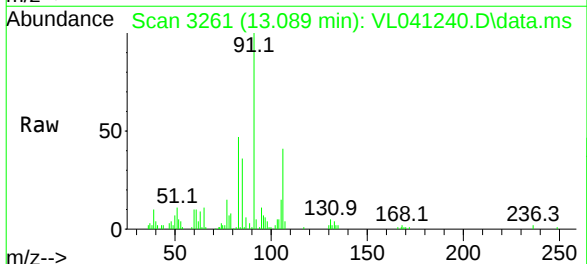
Acq: 8 May 2024 12:35

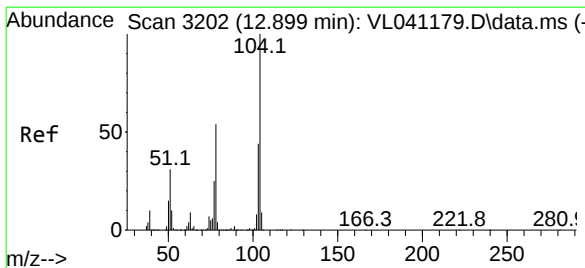
Tgt Ion: 91 Resp: 92525

Ion Ratio Lower Upper

91 100

106 42.4 22.4 67.3





#61

Styrene

Concen: 0.340 ppbv

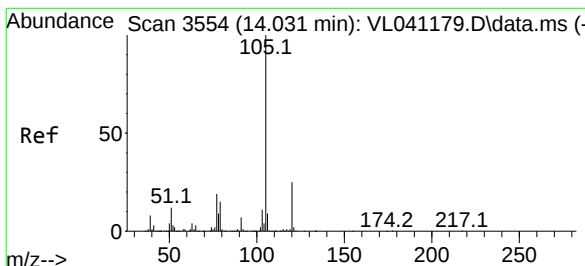
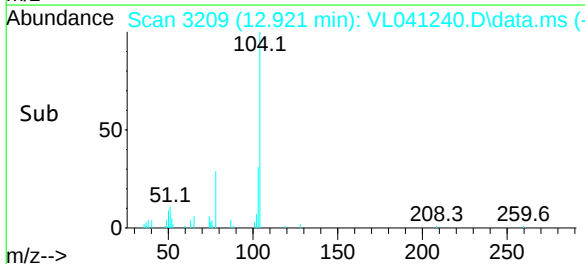
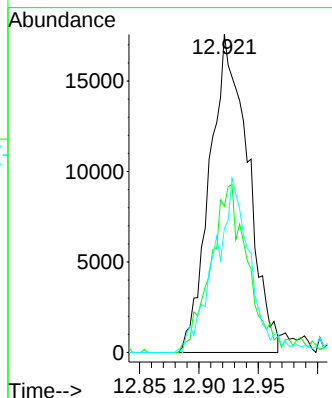
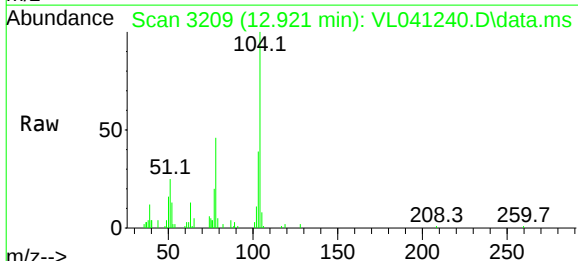
RT: 12.921 min Scan# 3209

Delta R.T. 0.003 min

Lab File: VL041240.D

Acq: 8 May 2024 12:35

Tgt Ion:	104	Resp:	39186
Ion	Ratio	Lower	Upper
104	100		
78	53.9	42.6	63.8
103	51.6	38.4	57.6



#62

Isopropylbenzene

Concen: 0.420 ppbv

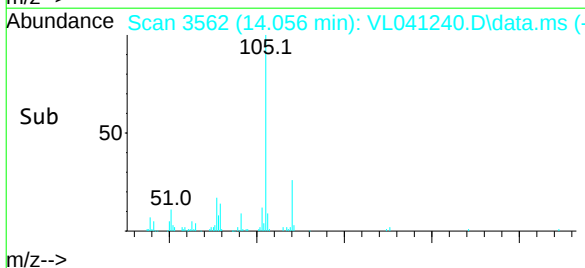
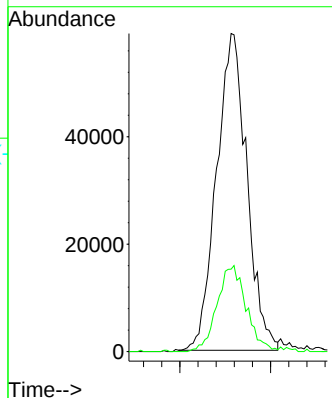
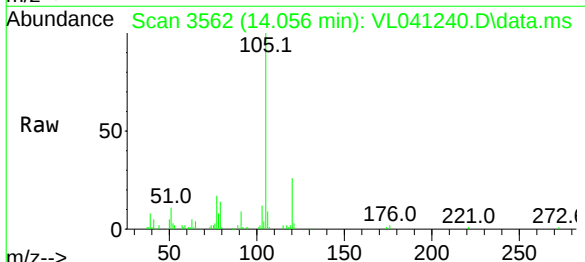
RT: 14.056 min Scan# 3562

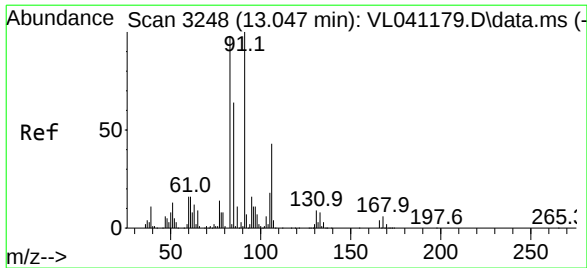
Delta R.T. 0.006 min

Lab File: VL041240.D

Acq: 8 May 2024 12:35

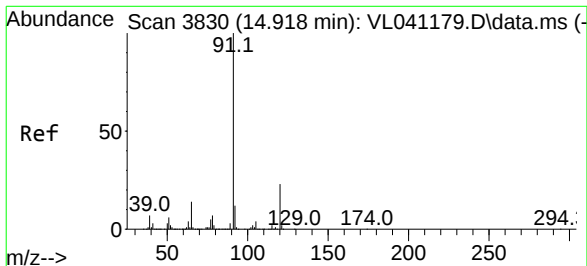
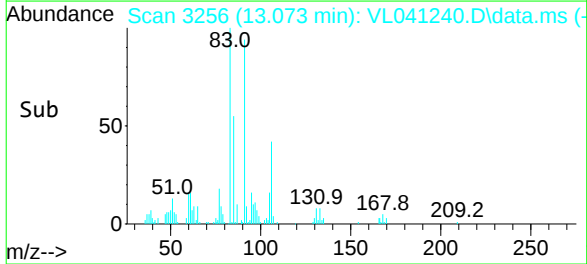
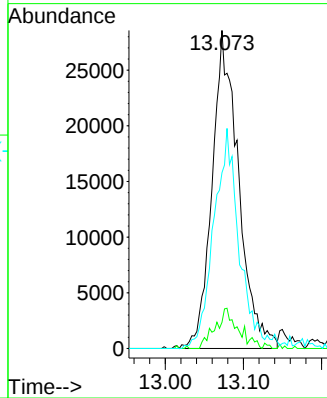
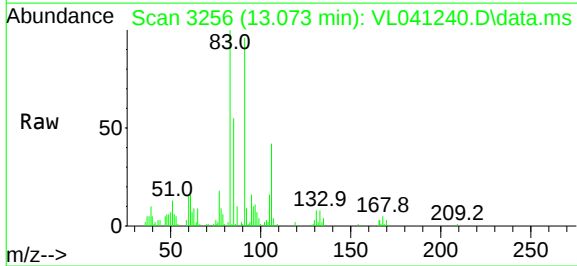
Tgt Ion:	105	Resp:	137104
Ion	Ratio	Lower	Upper
105	100		
120	26.5	20.2	30.2





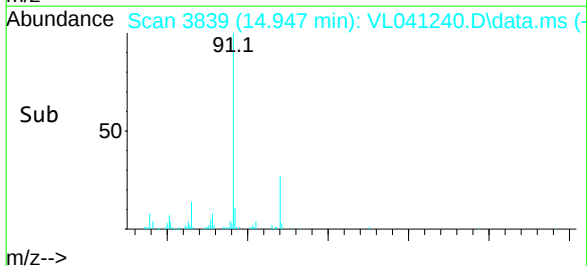
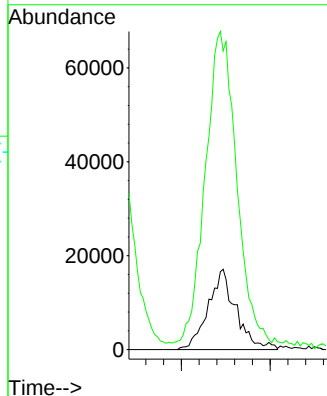
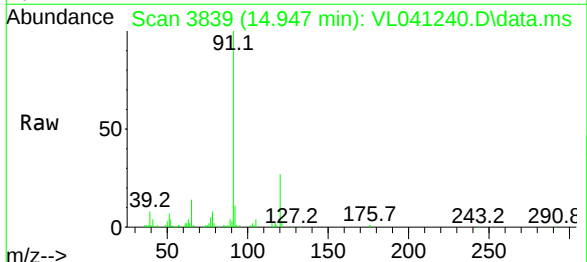
#63
1,1,2,2-Tetrachloroethane
Concen: 0.451 ppbv m
RT: 13.073 min Scan# 3256
Delta R.T. 0.006 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

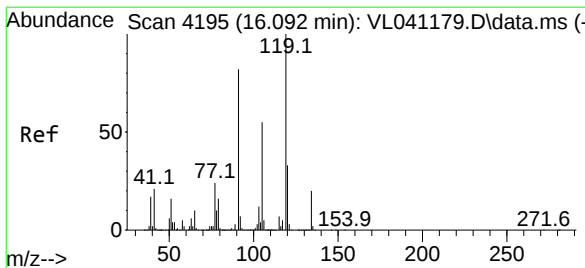
Tgt Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.5	13.5#
85	0.0	32.7	98.1#



#64
n-propylbenzene
Concen: 0.458 ppbv m
RT: 14.947 min Scan# 3839
Delta R.T. 0.013 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

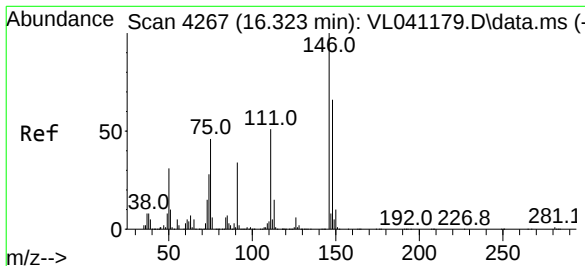
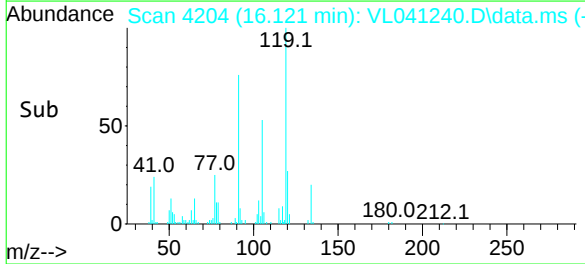
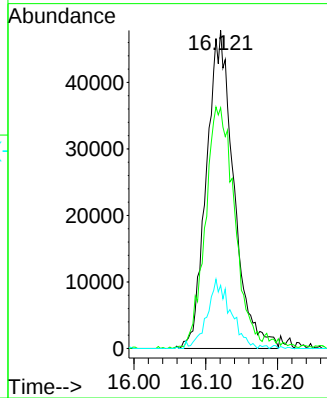
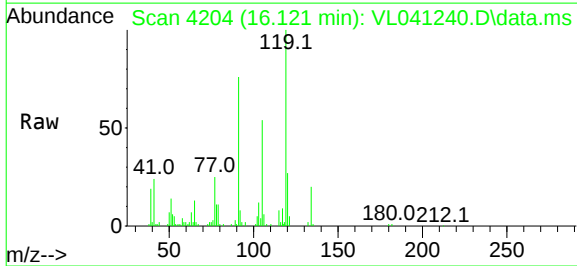
Tgt Ion	Ratio	Lower	Upper
120	100		
91	466.0	384.8	577.2





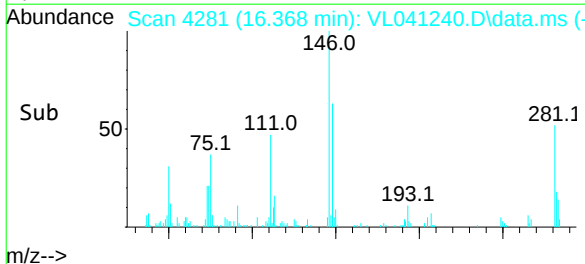
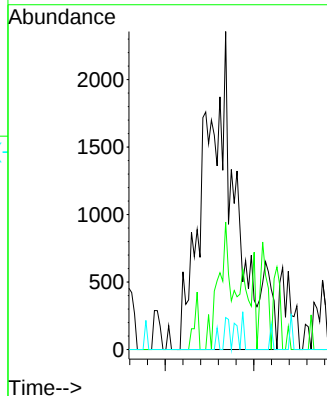
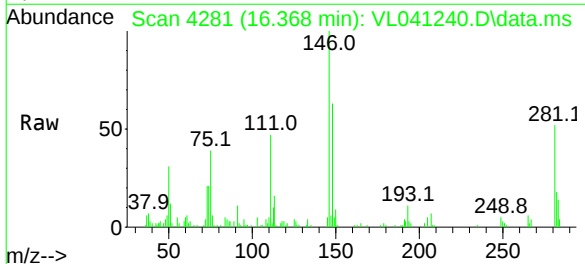
#65
tert-Butylbenzene
Concen: 0.432 ppbv m
RT: 16.121 min Scan# 4204
Delta R.T. 0.013 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

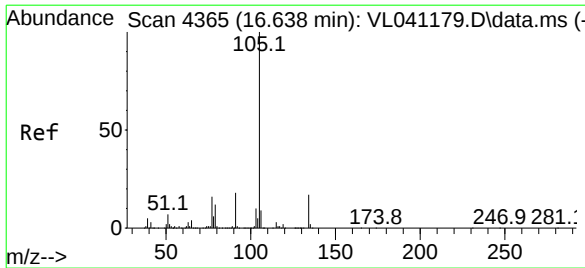
Tgt Ion: 119 Resp: 126348
Ion Ratio Lower Upper
119 100
91 84.1 67.0 100.4
134 19.2 15.2 22.8



#66
Benzyl Chloride
Concen: 0.181 ppbv m
RT: 16.368 min Scan# 4281
Delta R.T. 0.019 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

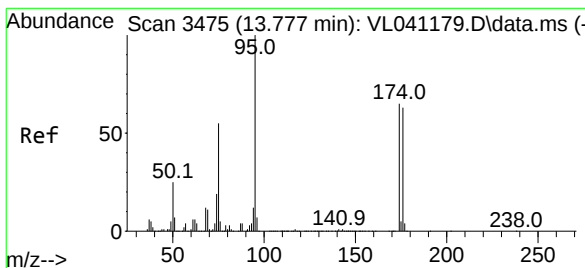
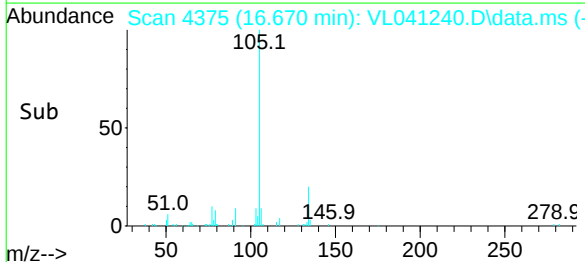
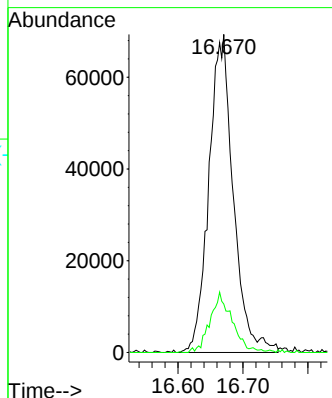
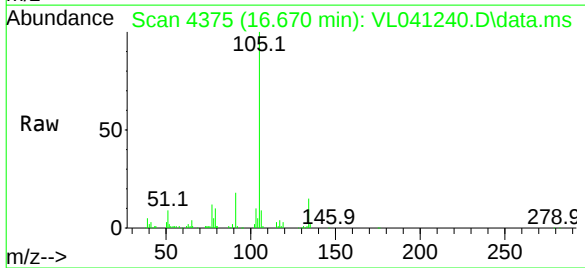
Tgt Ion: 91 Resp: 5997
Ion Ratio Lower Upper
91 100
126 0.0 14.6 21.8#
128 5.3 4.7 7.1





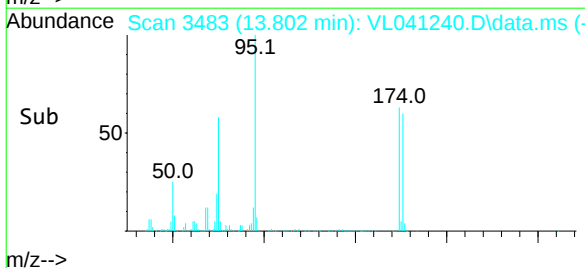
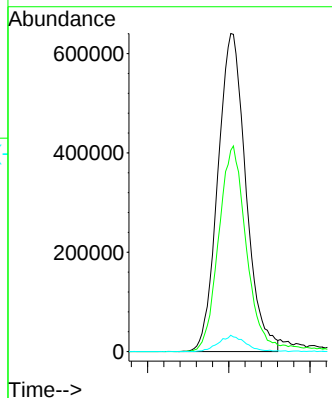
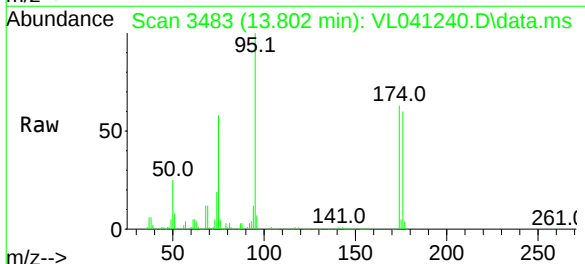
#67
sec-Butylbenzene
Concen: 0.439 ppbv m
RT: 16.670 min Scan# 4375
Delta R.T. 0.019 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

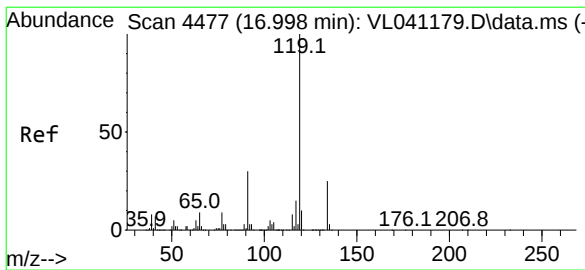
Tgt Ion: 105 Resp: 180806
Ion Ratio Lower Upper
105 100
134 17.6 13.8 20.8



#68
1-Bromo-4-Fluorobenzene
Concen: 10.079 ppbv
RT: 13.802 min Scan# 3483
Delta R.T. 0.006 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

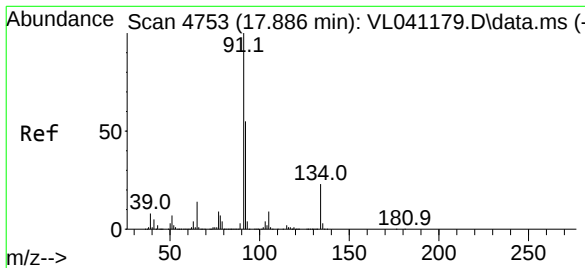
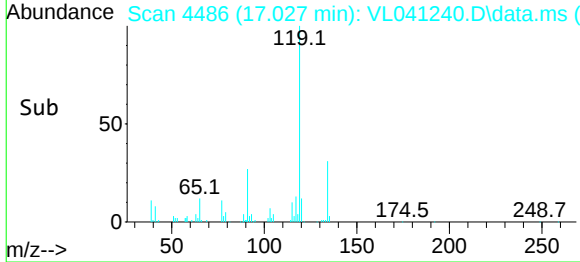
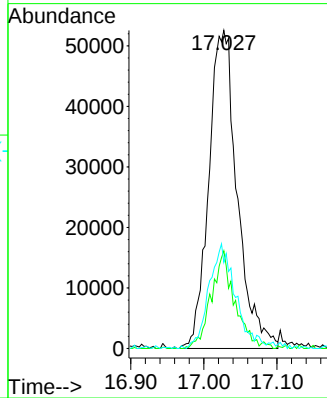
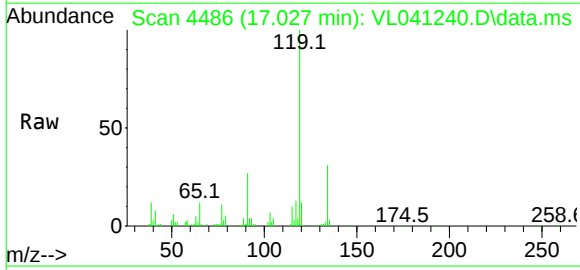
Tgt Ion: 95 Resp: 1537385
Ion Ratio Lower Upper
95 100
174 66.4 53.6 80.4
175 5.0 4.2 6.4





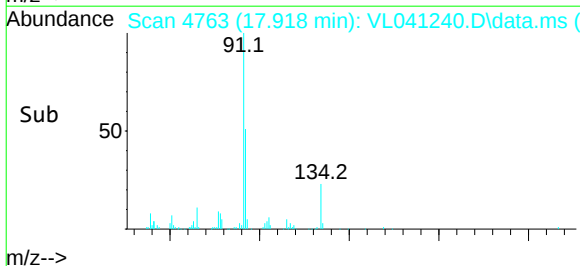
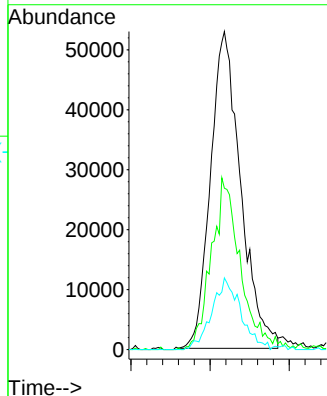
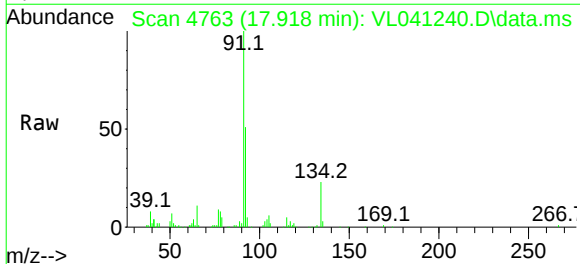
#69
p-Isopropyltoluene
Concen: 0.419 ppbv m
RT: 17.027 min Scan# 4486
Delta R.T. 0.013 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

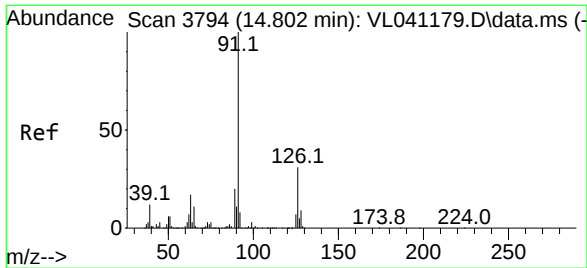
Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.8	20.1	30.1
91	31.3	24.2	36.2



#70
n-Butylbenzene
Concen: 0.395 ppbv
RT: 17.918 min Scan# 4763
Delta R.T. 0.013 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

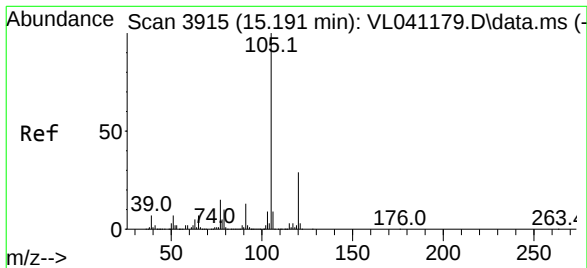
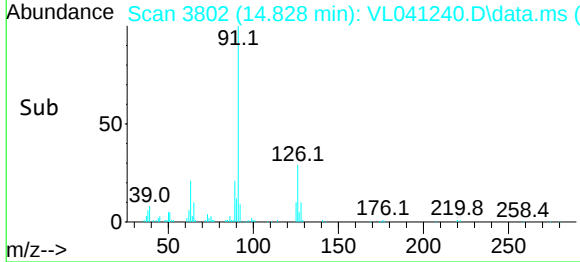
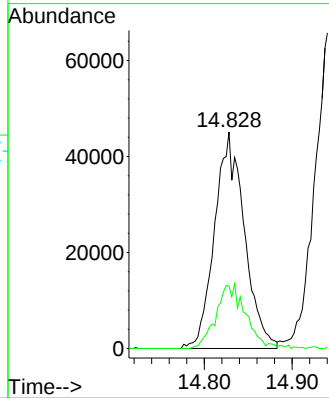
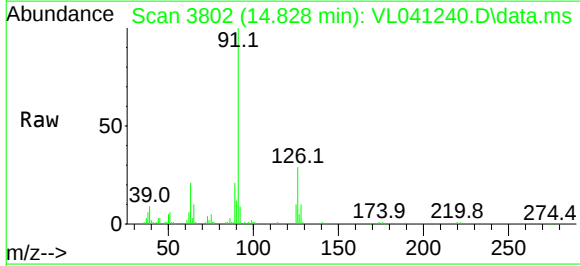
Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.0	43.3	64.9
134	22.1	17.8	26.8





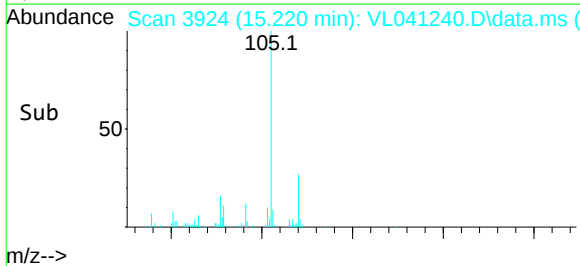
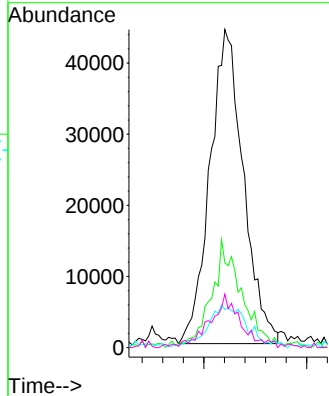
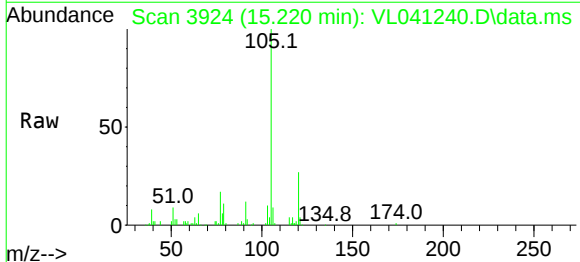
#71
2-Chlorotoluene
Concen: 0.427 ppbv m
RT: 14.828 min Scan# 3802
Delta R.T. 0.006 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

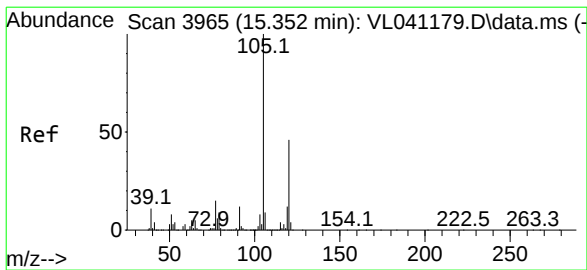
Tgt Ion: 91 Resp: 106021
Ion Ratio Lower Upper
91 100
126 0.0 12.2 48.8#



#72
4-Ethyltoluene
Concen: 0.404 ppbv
RT: 15.220 min Scan# 3924
Delta R.T. 0.010 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

Tgt Ion:105 Resp: 99904
Ion Ratio Lower Upper
105 100
120 32.1 24.7 37.1
91 16.6 10.3 15.5#
77 16.1 11.4 17.0





#73

1,3,5-Trimethylbenzene

Concen: 0.434 ppbv m

RT: 15.384 min Scan# 3975

Delta R.T. 0.013 min

Lab File: VL041240.D

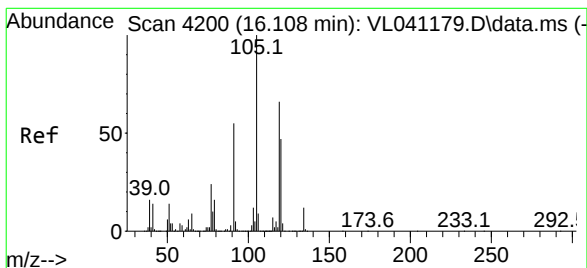
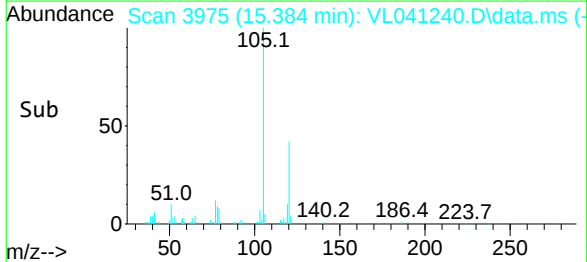
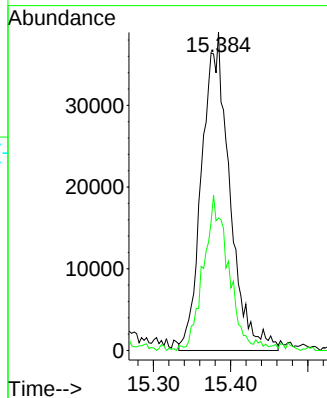
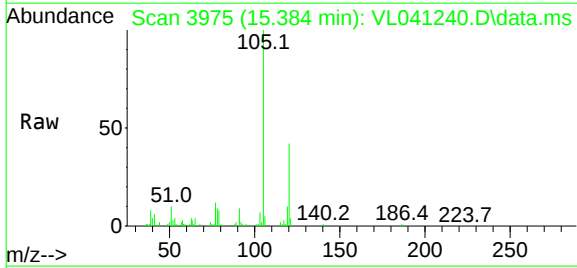
Acq: 8 May 2024 12:35

Tgt Ion:105 Resp: 97021

Ion Ratio Lower Upper

105 100

120 41.6 37.0 55.4



#74

1,2,4-Trimethylbenzene

Concen: 0.404 ppbv

RT: 16.134 min Scan# 4208

Delta R.T. 0.006 min

Lab File: VL041240.D

Acq: 8 May 2024 12:35

Tgt Ion:105 Resp: 98588

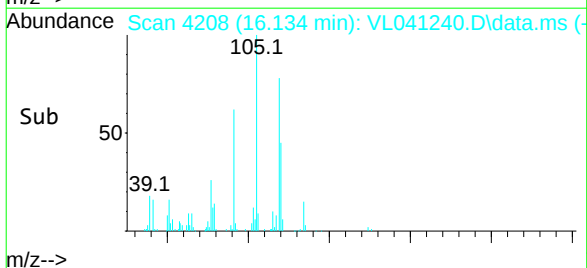
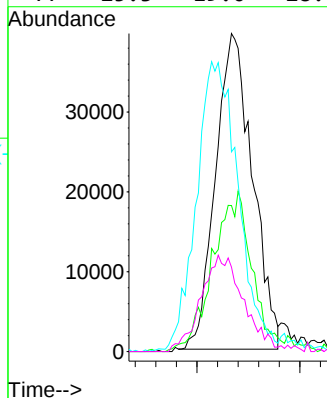
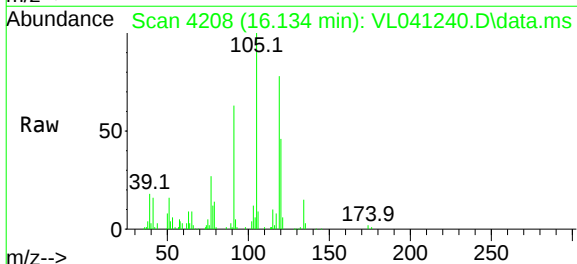
Ion Ratio Lower Upper

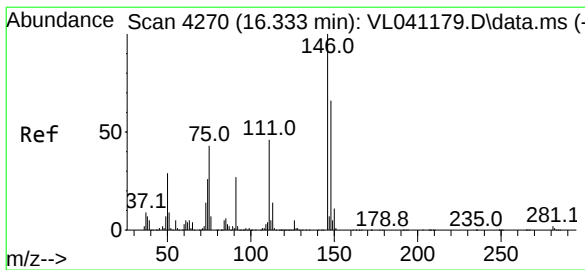
105 100

120 44.0 37.8 56.6

91 60.6 44.3 66.5

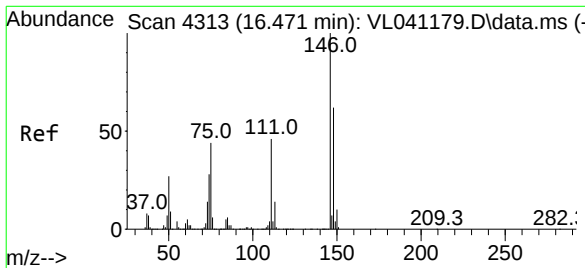
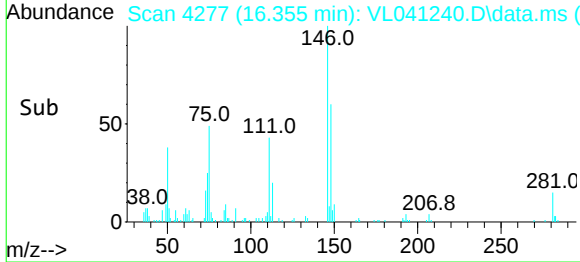
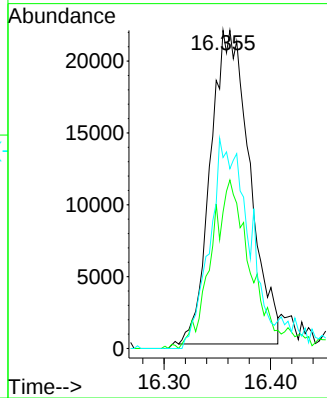
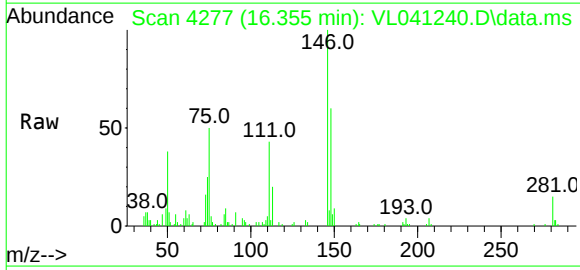
77 25.3 19.0 28.4





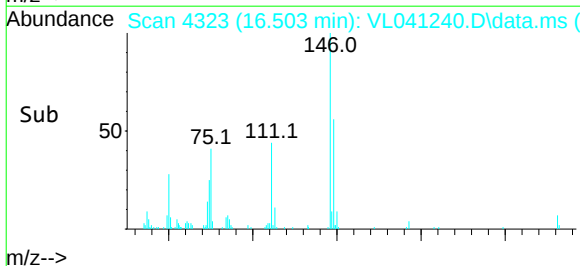
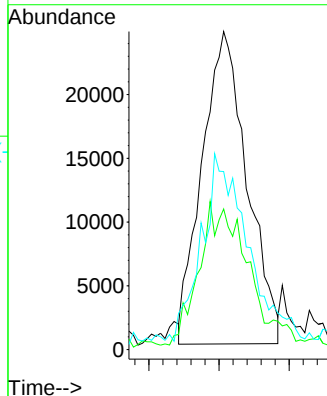
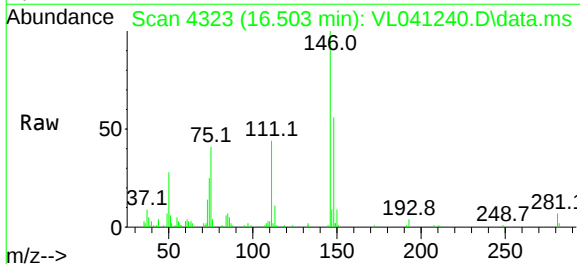
#75
1,3-Dichlorobenzene
Concen: 0.400 ppbv
RT: 16.355 min Scan# 4277
Delta R.T. 0.006 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

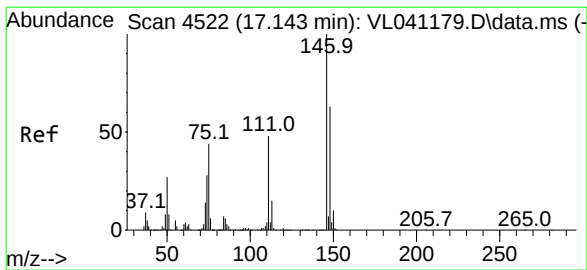
Tgt Ion:	146	Resp:	55978
Ion Ratio	Lower	Upper	
146	100		
111	55.5	23.7	71.1
148	72.5	32.5	97.4



#76
1,4-Dichlorobenzene
Concen: 0.407 ppbv
RT: 16.503 min Scan# 4323
Delta R.T. 0.010 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

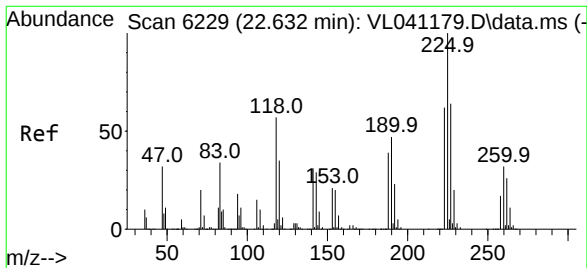
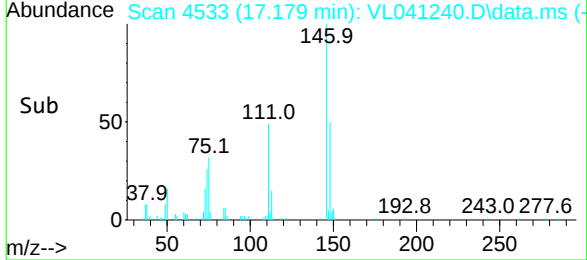
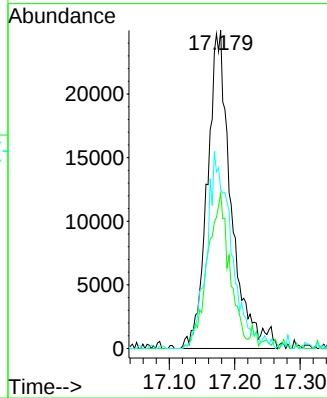
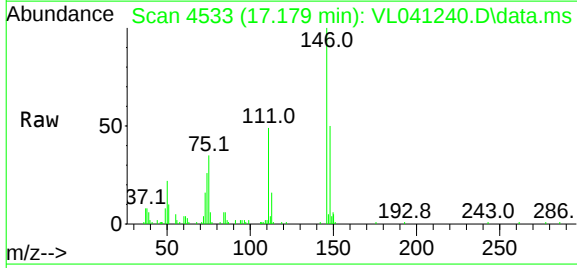
Tgt Ion:	146	Resp:	54837
Ion Ratio	Lower	Upper	
146	100		
111	57.0	23.3	69.8
148	68.3	32.6	97.7





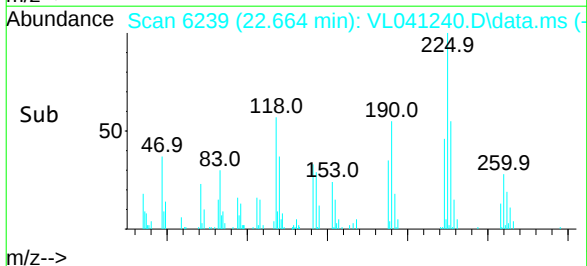
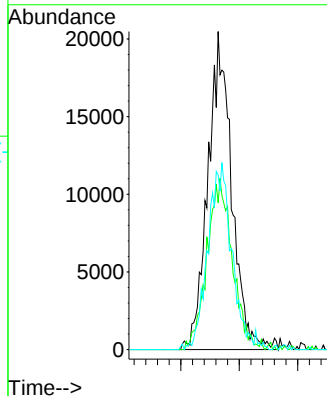
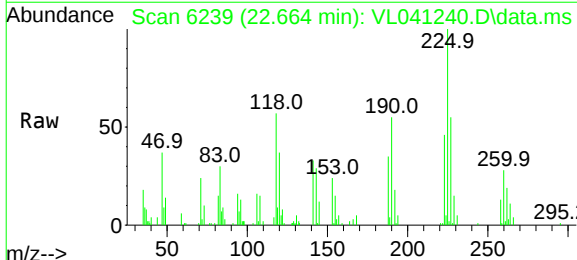
#77
1,2-Dichlorobenzene
Concen: 0.451 ppbv m
RT: 17.179 min Scan# 4533
Delta R.T. 0.016 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

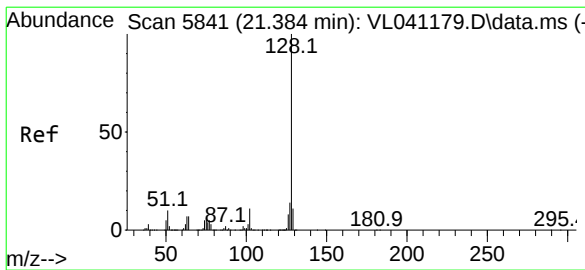
Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	24.5	73.5#
148	65.2	32.6	98.0



#78
Hexachloro-1,3-Butadiene
Concen: 0.465 ppbv m
RT: 22.664 min Scan# 6239
Delta R.T. 0.006 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

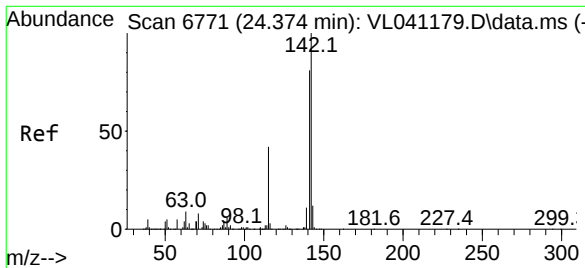
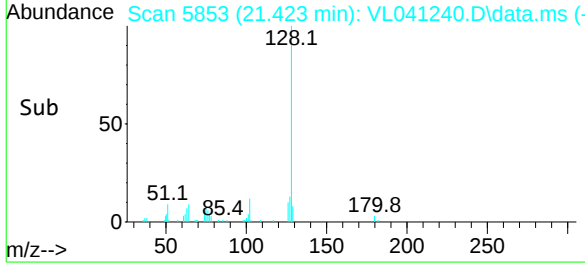
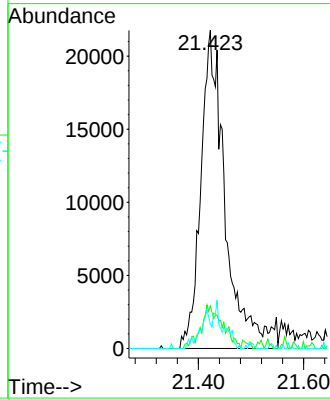
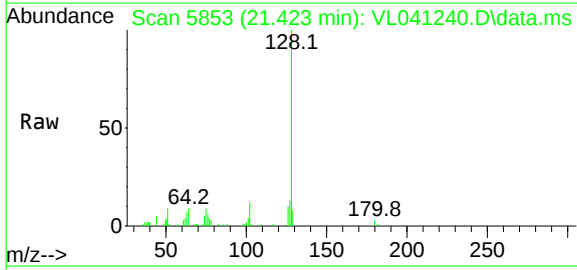
Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	50.9	76.3#
227	0.0	52.0	78.0#





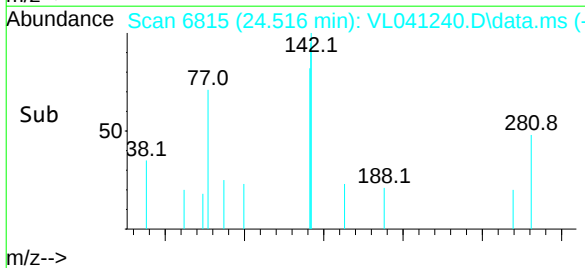
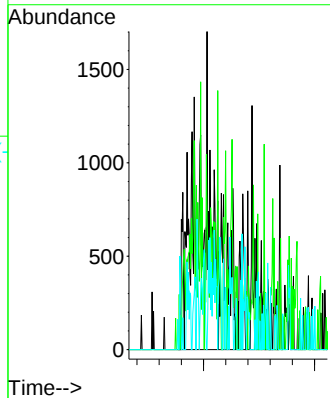
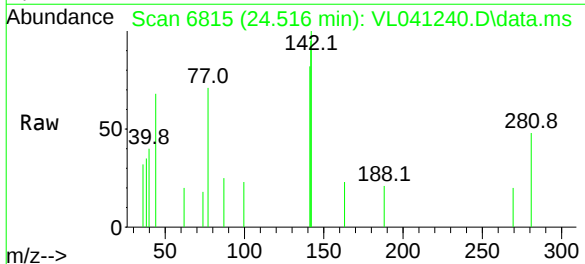
#79
Naphthalene
Concen: 0.302 ppbv m
RT: 21.423 min Scan# 5853
Delta R.T. 0.019 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

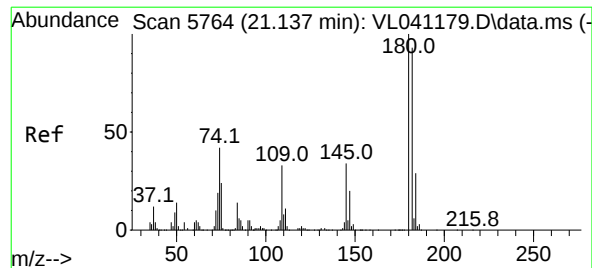
Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.8	16.2
129	7.8	8.9	13.3



#80
Naphthalene, 2-methyl-
Concen: 0.124 ppbv m
RT: 24.516 min Scan# 6815
Delta R.T. 0.125 min
Lab File: VL041240.D
Acq: 8 May 2024 12:35

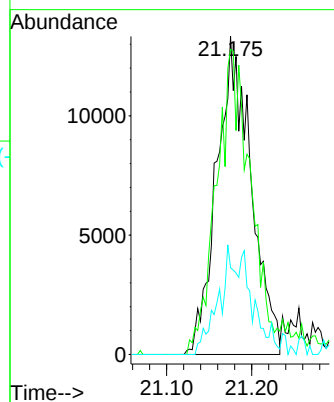
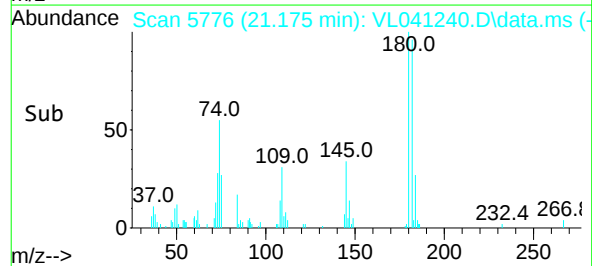
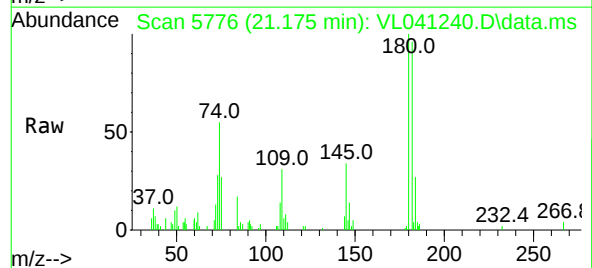
Tgt Ion	Ratio	Lower	Upper
142	100		
141	0.0	67.9	101.9
115	3.5	31.4	47.0





#81
 1,2,4-Trichlorobenzene
 Concen: 0.304 ppbv m
 RT: 21.175 min Scan# 5776
 Delta R.T. 0.010 min
 Lab File: VL041240.D
 Acq: 8 May 2024 12:35

Tgt	Ion:180	Resp:	37301
Ion	Ratio	Lower	Upper
180	100		
182	102.8	77.2	115.8
184	31.3	24.6	36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050824\
 Data File : VL041241.D
 Acq On : 8 May 2024 13:13
 Operator : SY/MD
 Sample : P2403-13 LOD 0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 09 05:11:41 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

QLast Update : Thu May 09 02:43:03 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.217	49	812942	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.680	114	2161532	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.497	117	1968339	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	13.805	95	1526641	10.274	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 102.700%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.754	85	15353	0.140	ppbv	98
3) Chlorodifluoromethane	2.697	51	15149	0.123	ppbv	96
4) Chloromethane	2.841	50	5374m	0.111	ppbv	
5) Vinyl Chloride	2.944	62	4420m	0.091	ppbv	
6) Bromomethane	3.153	94	1732m	0.098	ppbv	
7) Chloroethane	3.221	64	1722m	0.100	ppbv	
8) Dichlorotetrafluoroethane	2.877	85	11056	0.097	ppbv	90
9) Propene	2.722	41	7418	0.154	ppbv	98
10) Heptane	7.606	43	9506m	0.081	ppbv	
11) Trichlorofluoromethane	3.587	101	11216	0.100	ppbv	# 76
12) 1,1,2-Trichlorotrifluo...	4.092	101	8620m	0.104	ppbv	
13) Ethanol	3.285	45	1520m	0.140	ppbv	
14) Bromoethene	3.391	108	3573m	0.105	ppbv	
15) Acetone	3.520	43	19789m	0.206	ppbv	
16) 1,3-Butadiene	3.015	39	6167m	0.127	ppbv	
17) tert-Butyl alcohol	3.931	59	10042m	0.097	ppbv	
18) 1,1-Dichloroethene	3.912	96	3949m	0.107	ppbv	
19) Isopropyl Alcohol	3.632	45	6452m	0.102	ppbv	
20) Methylene Chloride	3.957	84	8989m	0.269	ppbv	
21) Allyl Chloride	4.021	41	6229m	0.100	ppbv	
22) trans-1,2-Dichloroethene	4.471	96	3782m	0.099	ppbv	
23) Vinyl Acetate	4.674	43	8561m	0.081	ppbv	
24) 1,1-Dichloroethane	4.590	63	8660m	0.105	ppbv	
25) Ethyl Acetate	5.246	43	20037m	0.105	ppbv	
26) Hexane	5.240	57	8835m	0.103	ppbv	
27) Carbon Disulfide	4.153	76	9019m	0.089	ppbv	
28) Methyl tert-Butyl Ether	4.635	73	6483m	0.095	ppbv	
29) Chloroform	5.298	83	13442m	0.114	ppbv	
30) Cyclohexane	6.632	84	7061m	0.104	ppbv	
31) cis-1,2-Dichloroethene	5.105	61	7029m	0.088	ppbv	
32) 1,1,1-Trichloroethane	6.028	97	10490m	0.089	ppbv	
34) 2-Butanone	4.835	43	12988m	0.118	ppbv	
35) Carbon Tetrachloride	6.516	117	9908m	0.082	ppbv	
36) Benzene	6.397	78	16773m	0.092	ppbv	
37) 1,2-Dichloroethane	5.835	62	9470m	0.100	ppbv	
38) Trichloroethene	7.323	130	7147m	0.106	ppbv	
39) 1,2-Dichloropropane	7.102	63	7840m	0.112	ppbv	
40) 1,4-Dioxane	7.368	88	3141m	0.126	ppbv	
41) Tetrahydrofuran	5.622	42	7485m	0.094	ppbv	
42) Bromodichloromethane	7.275	83	12209m	0.090	ppbv	
43) Methyl Methacrylate	7.513	69	5454m	0.074	ppbv	
44) 2,2,4-Trimethylpentane	7.356	57	26882m	0.086	ppbv	
45) t-1,3-Dichloropropene	8.741	75	3135m	0.059	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050824\
 Data File : VL041241.D
 Acq On : 8 May 2024 13:13
 Operator : SY/MD
 Sample : P2403-13 LOD 0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 09 05:11:41 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

QLast Update : Thu May 09 02:43:03 2024

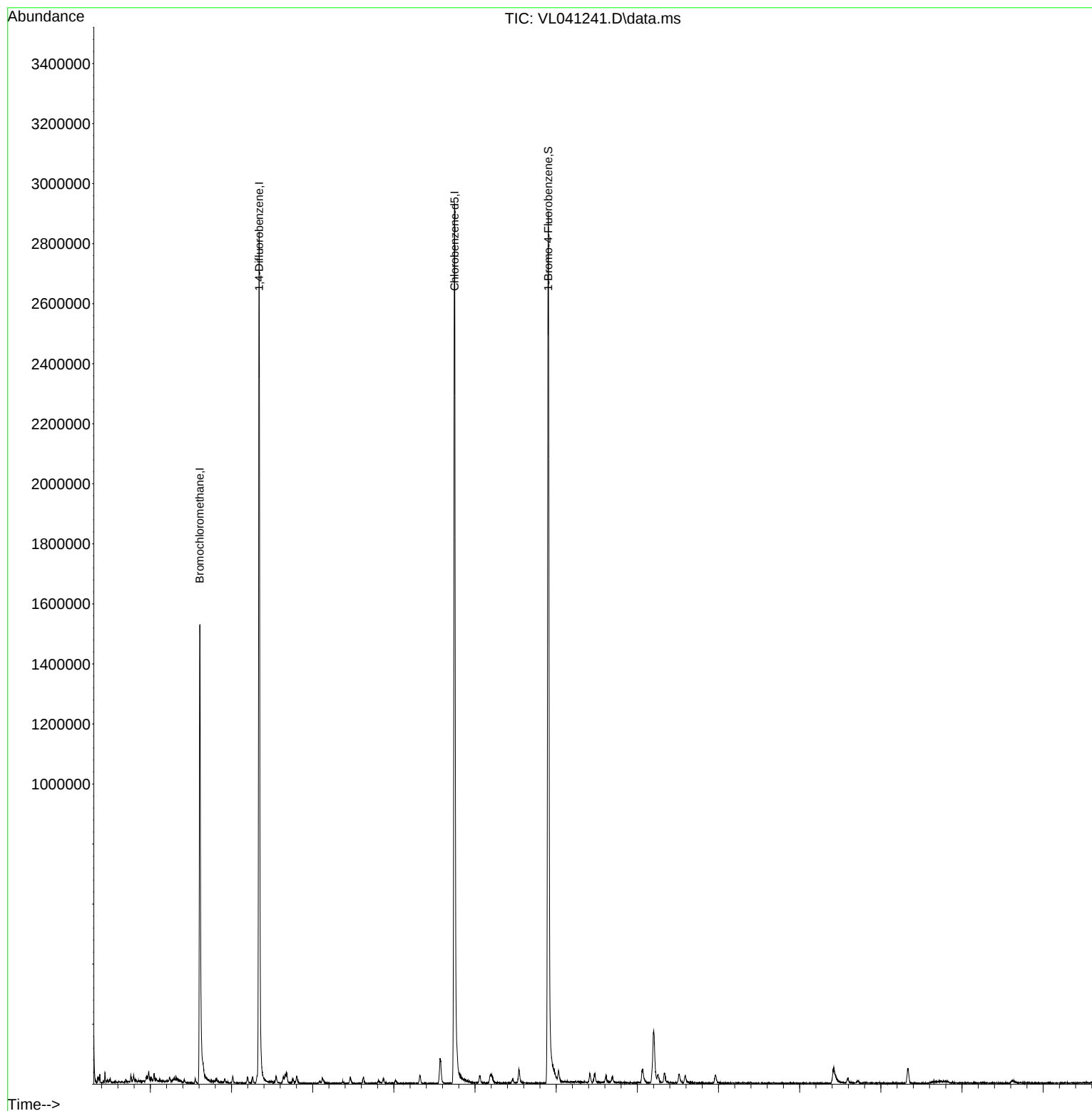
Response via : Initial Calibration

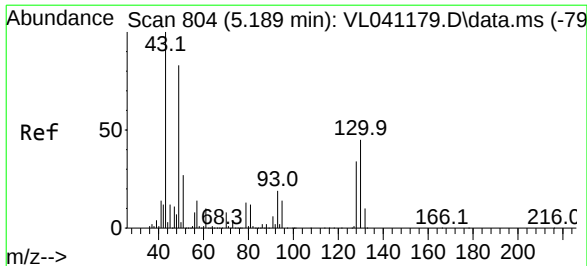
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.166	75	4315m	0.066	ppbv	
47) 1,1,2-Trichloroethane	8.925	97	7330m	0.105	ppbv	
48) Dibromochloromethane	9.735	129	8540m	0.077	ppbv	
49) Bromoform	12.436	173	6493m	0.068	ppbv	
50) 4-Methyl-2-Pentanone	8.230	43	18351m	0.093	ppbv	
51) 2-Hexanone	9.619	43	11156m	0.076	ppbv	
52) Tetrachloroethene	10.645	164	6201m	0.097	ppbv	
53) Toluene	9.249	91	16191m	0.077	ppbv	
54) 1,2-Dibromoethane	10.040	107	8242m	0.087	ppbv	
56) 1,1,1,2-Tetrachloroethane	11.542	131	7438m	0.093	ppbv	
57) Chlorobenzene	11.555	112	15576m	0.108	ppbv	
58) Ethyl Benzene	12.108	91	20865m	0.077	ppbv	
59) m/p-Xylene	12.404	91	37294m	0.164	ppbv	
60) o-Xylene	13.082	91	17927m	0.084	ppbv	
61) Styrene	12.934	104	7922m	0.071	ppbv	
62) Isopropylbenzene	14.063	105	28751m	0.090	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.085	83	15258m	0.105	ppbv	
64) n-propylbenzene	14.966	120	6597m	0.083	ppbv	
65) tert-Butylbenzene	16.111	119	23593m	0.083	ppbv	
66) Benzyl Chloride	16.374	91	2017m	0.063	ppbv	
67) sec-Butylbenzene	16.664	105	35450m	0.088	ppbv	
69) p-Isopropyltoluene	17.018	119	27046m	0.082	ppbv	
70) n-Butylbenzene	17.924	91	24771m	0.072	ppbv	
71) 2-Chlorotoluene	14.825	91	21520m	0.089	ppbv	
72) 4-Ethyltoluene	15.223	105	20065m	0.083	ppbv	
73) 1,3,5-Trimethylbenzene	15.384	105	17659m	0.081	ppbv	
74) 1,2,4-Trimethylbenzene	16.137	105	18630m	0.078	ppbv	
75) 1,3-Dichlorobenzene	16.368	146	13710m	0.100	ppbv	
76) 1,4-Dichlorobenzene	16.509	146	13966m	0.106	ppbv	
77) 1,2-Dichlorobenzene	17.182	146	12797m	0.094	ppbv	
78) Hexachloro-1,3-Butadiene	22.676	225	12863m	0.106	ppbv	
79) Naphthalene	21.432	128	12064m	0.053	ppbv	
81) 1,2,4-Trichlorobenzene	21.194	180	7917m	0.066	ppbv	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

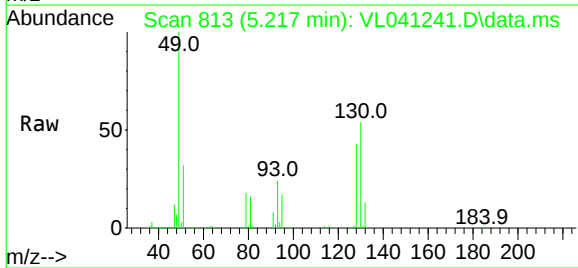
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050824\
Data File : VL041241.D
Acq On : 8 May 2024 13:13
Operator : SY/MD
Sample : P2403-13 LOD 0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 09 05:11:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu May 09 02:43:03 2024
Response via : Initial Calibration

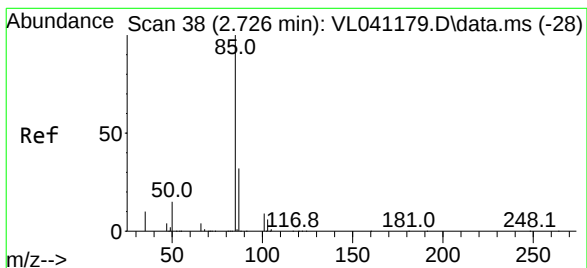
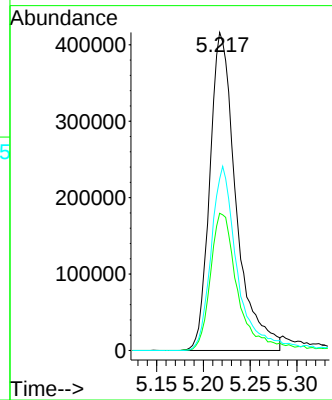
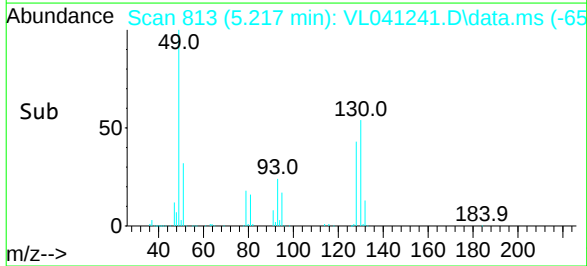




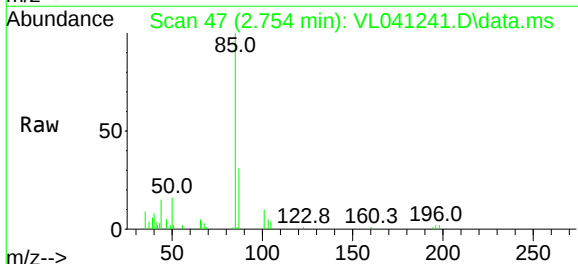
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.217 min Scan# 813
Delta R.T. 0.006 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13



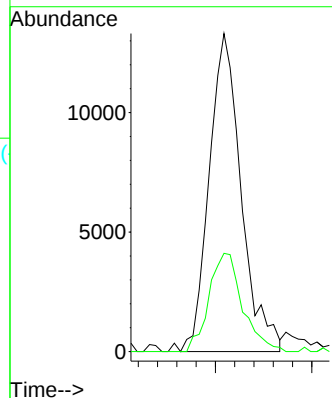
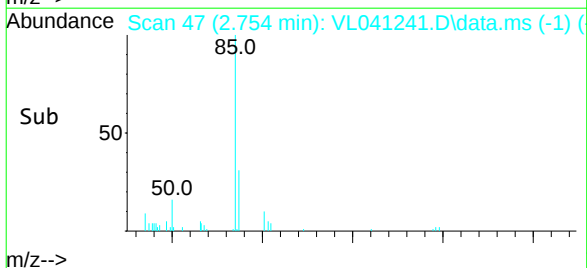
Tgt Ion: 49 Resp: 812942
Ion Ratio Lower Upper
49 100
128 45.4 21.5 64.5
130 60.5 27.2 81.6

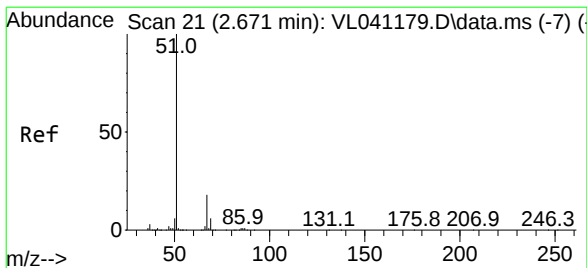


#2
Dichlorodifluoromethane
Concen: 0.140 ppbv
RT: 2.754 min Scan# 47
Delta R.T. 0.009 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13



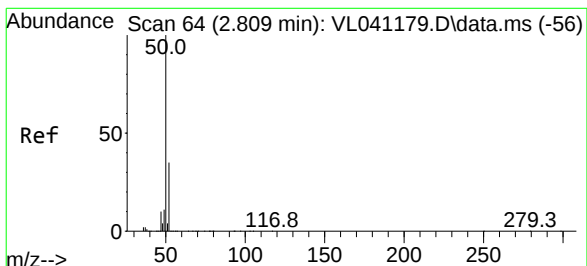
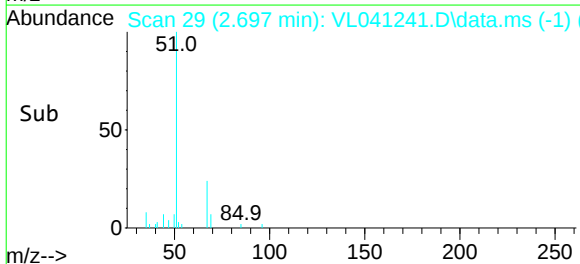
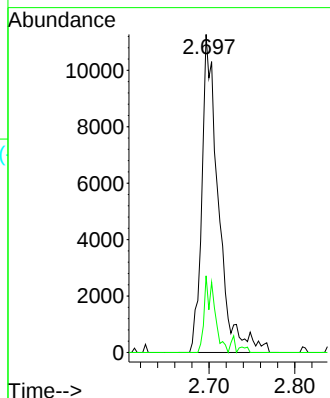
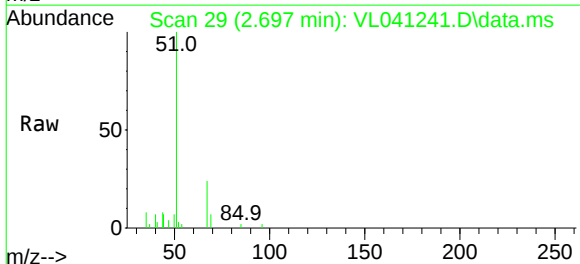
Tgt Ion: 85 Resp: 15353
Ion Ratio Lower Upper
85 100
87 30.9 25.7 38.5





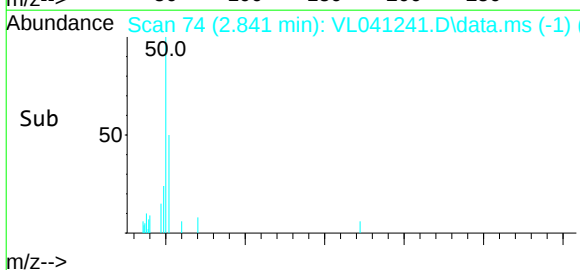
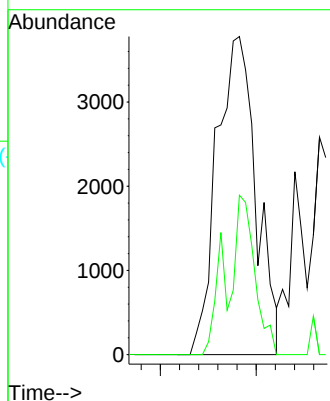
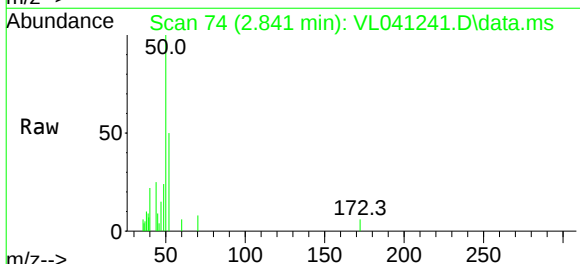
#3
Chlorodifluoromethane
Concen: 0.123 ppbv
RT: 2.697 min Scan# 29
Delta R.T. 0.006 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

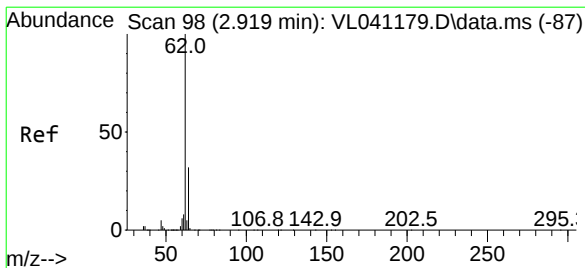
Tgt Ion: 51 Resp: 15149
Ion Ratio Lower Upper
51 100
67 15.8 14.0 21.0



#4
Chloromethane
Concen: 0.111 ppbv m
RT: 2.841 min Scan# 74
Delta R.T. 0.009 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

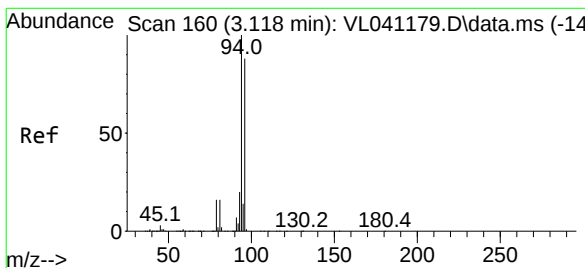
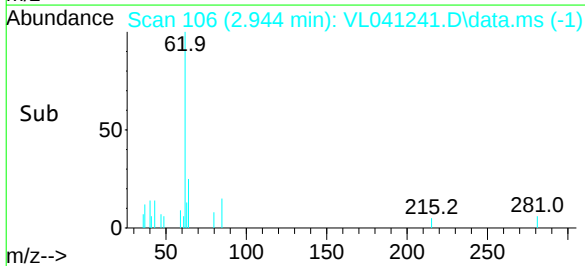
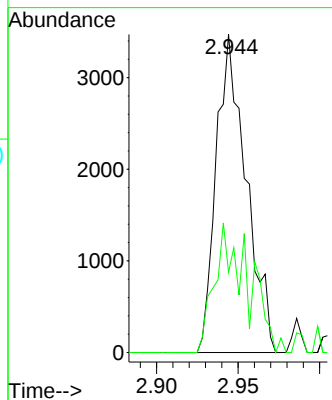
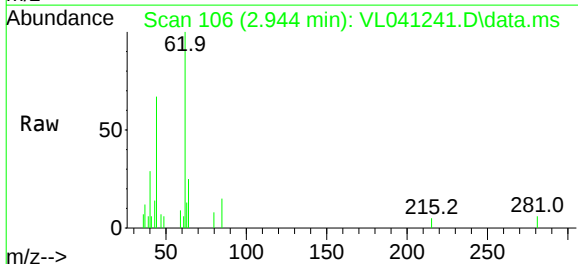
Tgt Ion: 50 Resp: 5374
Ion Ratio Lower Upper
50 100
52 50.1 28.3 42.5#





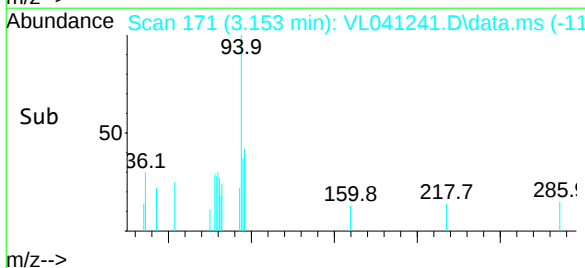
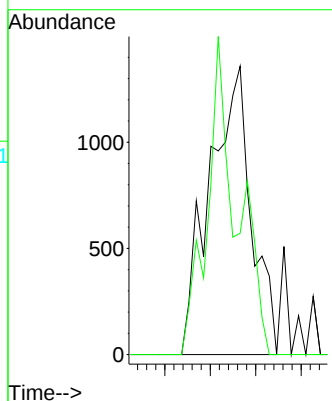
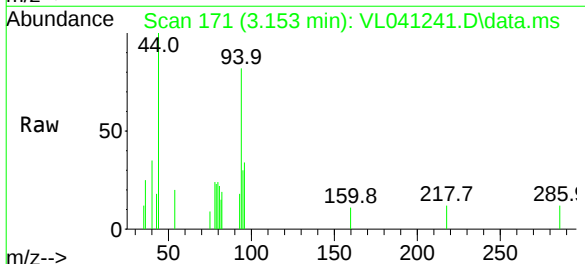
#5
 Vinyl Chloride
 Concen: 0.091 ppbv m
 RT: 2.944 min Scan# 106
 Delta R.T. 0.006 min
 Lab File: VL041241.D
 Acq: 8 May 2024 13:13

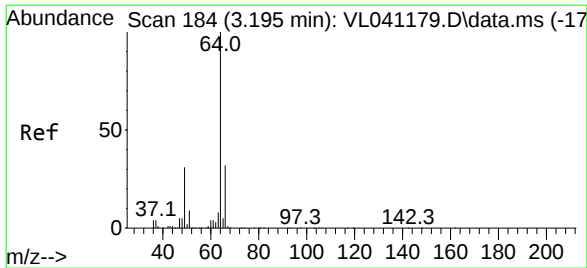
Tgt Ion: 62 Resp: 4420
 Ion Ratio Lower Upper
 62 100
 64 25.3 25.7 38.5#



#6
 Bromomethane
 Concen: 0.098 ppbv m
 RT: 3.153 min Scan# 171
 Delta R.T. 0.016 min
 Lab File: VL041241.D
 Acq: 8 May 2024 13:13

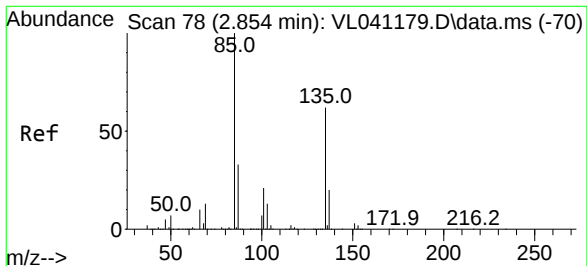
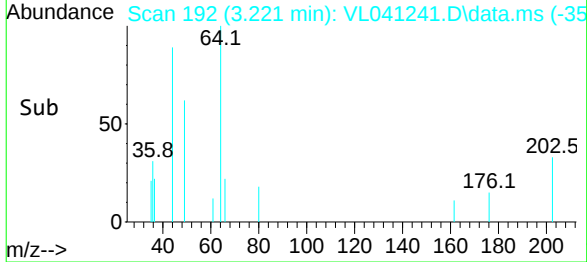
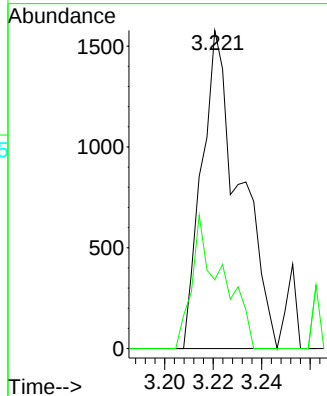
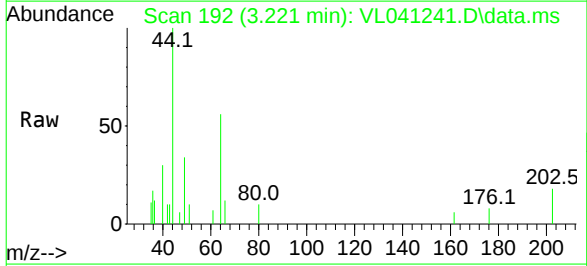
Tgt Ion: 94 Resp: 1732
 Ion Ratio Lower Upper
 94 100
 96 42.0 70.1 105.1#





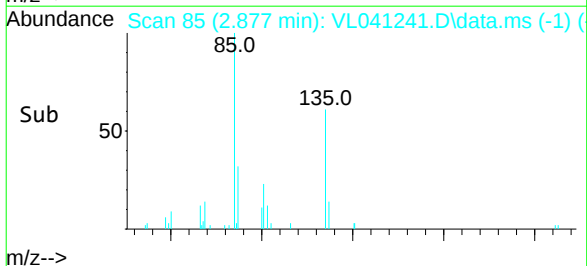
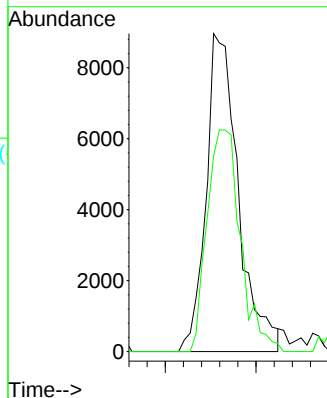
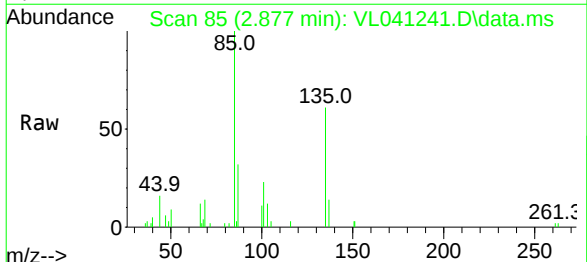
#7
Chloroethane
Concen: 0.100 ppbv m
RT: 3.221 min Scan# 192
Delta R.T. 0.006 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

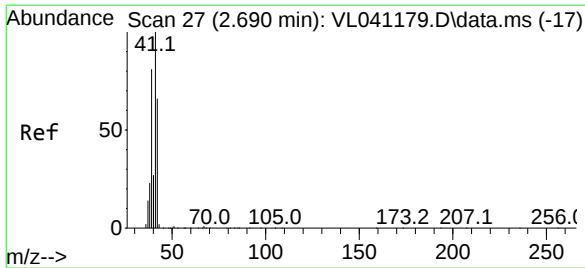
Tgt Ion	Ratio	Lower	Upper
64	100		
66	21.6	25.4	38.2#



#8
Dichlorotetrafluoroethane
Concen: 0.097 ppbv
RT: 2.877 min Scan# 85
Delta R.T. 0.003 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

Tgt Ion	Ratio	Lower	Upper
85	100		
135	72.2	51.5	77.3





#9

Propene

Concen: 0.154 ppbv

RT: 2.722 min Scan# 37

Delta R.T. 0.013 min

Lab File: VL041241.D

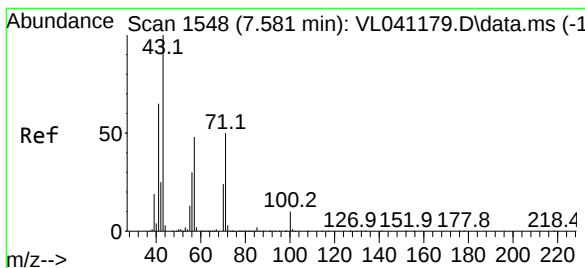
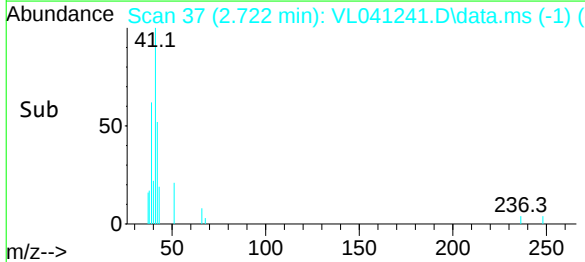
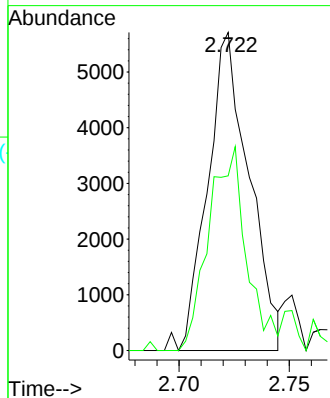
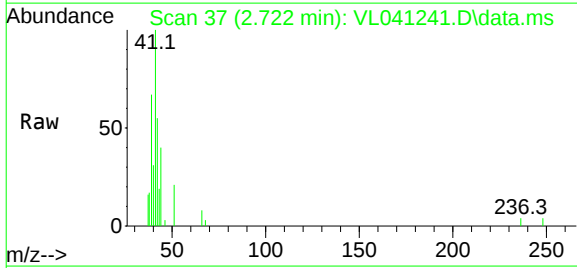
Acq: 8 May 2024 13:13

Tgt Ion: 41 Resp: 7418

Ion Ratio Lower Upper

41 100

42 67.8 55.3 82.9



#10

Heptane

Concen: 0.081 ppbv m

RT: 7.606 min Scan# 1556

Delta R.T. 0.006 min

Lab File: VL041241.D

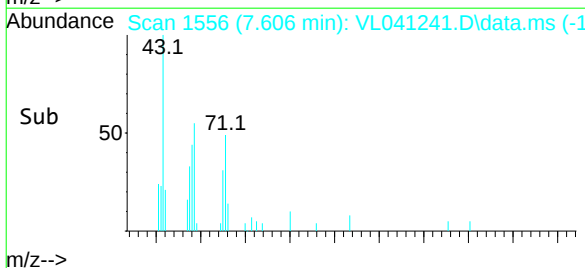
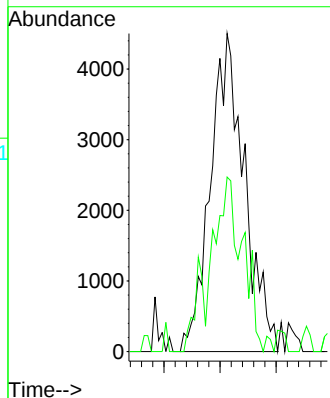
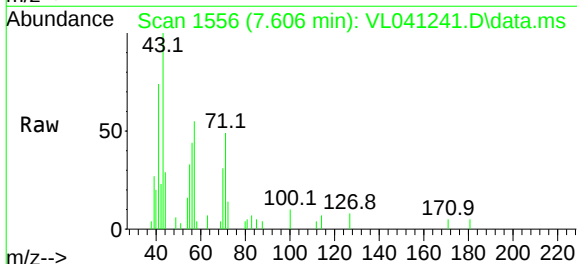
Acq: 8 May 2024 13:13

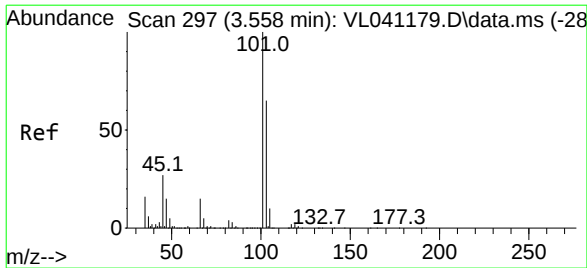
Tgt Ion: 43 Resp: 9506

Ion Ratio Lower Upper

43 100

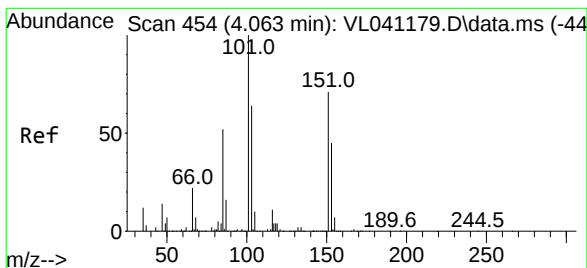
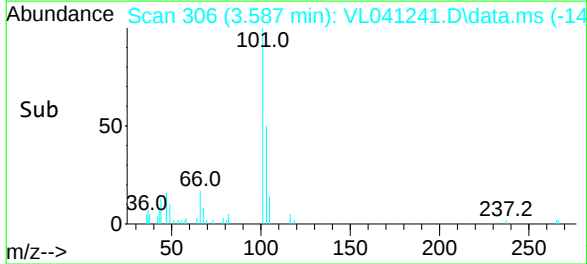
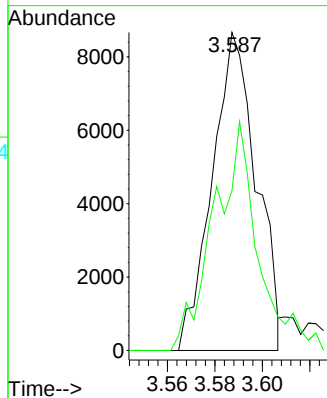
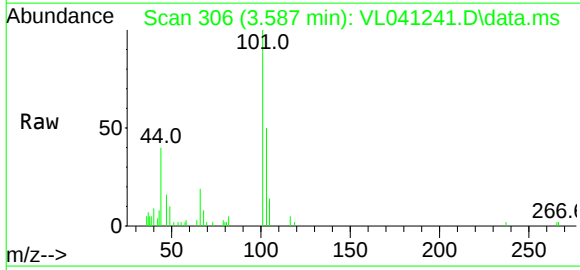
57 54.9 38.7 58.1





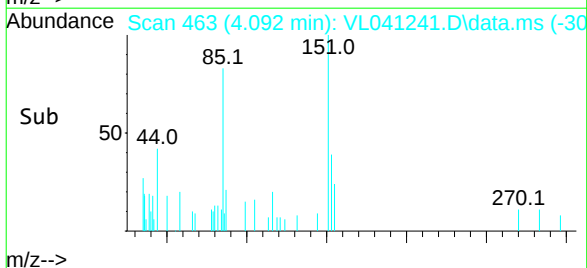
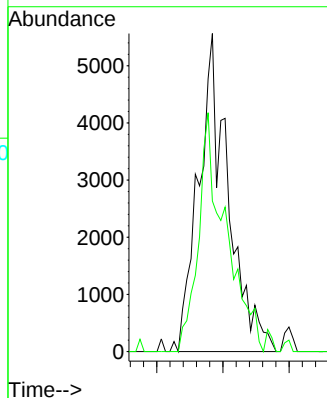
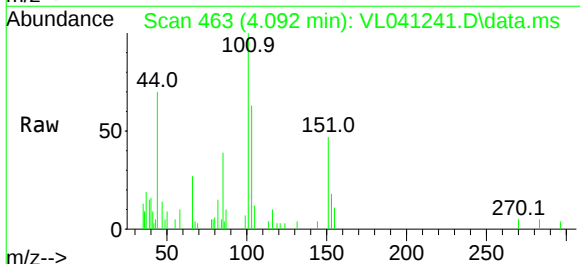
#11
Trichlorofluoromethane
Concen: 0.100 ppbv
RT: 3.587 min Scan# 306
Delta R.T. 0.006 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

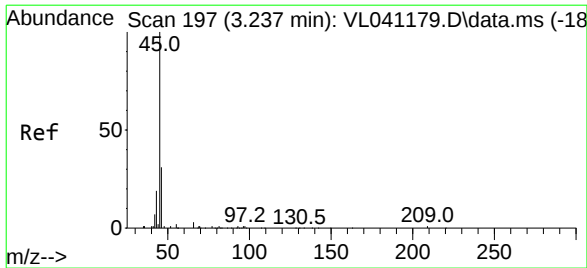
Tgt Ion:101 Resp: 11216
Ion Ratio Lower Upper
101 100
103 45.6 51.6 77.4#



#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.104 ppbv m
RT: 4.092 min Scan# 463
Delta R.T. 0.009 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

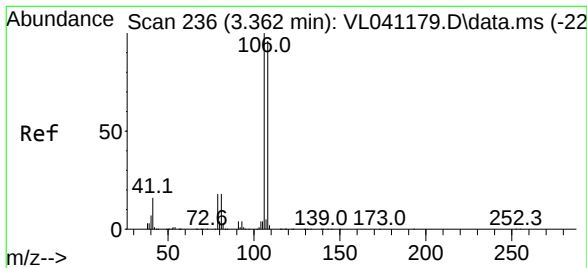
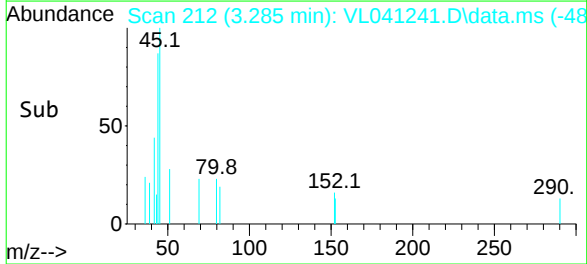
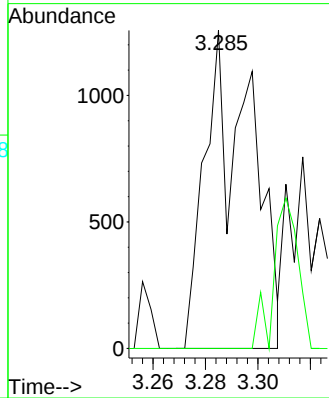
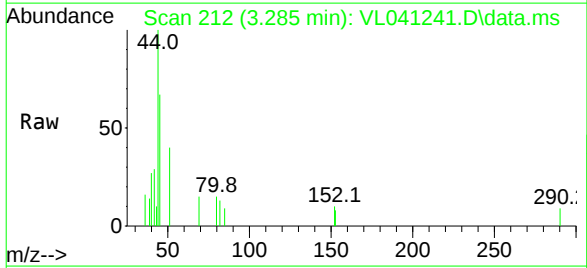
Tgt Ion:101 Resp: 8620
Ion Ratio Lower Upper
101 100
151 71.3 56.8 85.2





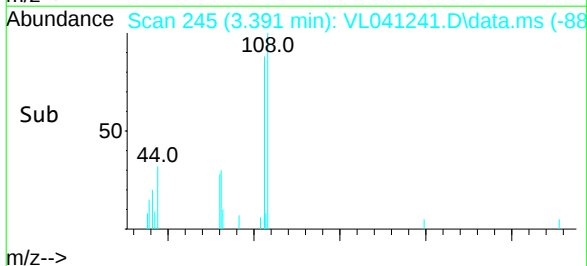
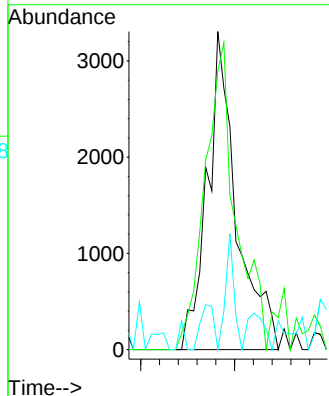
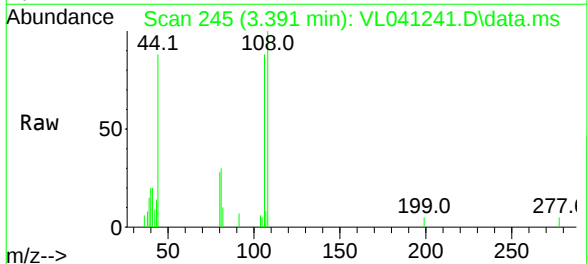
#13
Ethanol
Concen: 0.140 ppbv m
RT: 3.285 min Scan# 212
Delta R.T. 0.029 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

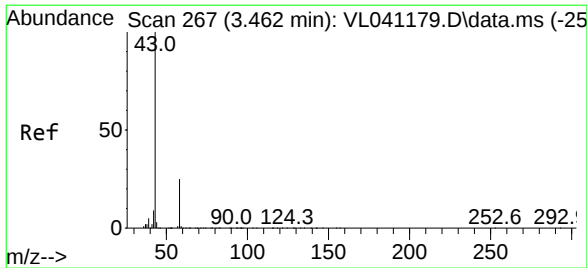
Tgt Ion: 45 Resp: 1520
Ion Ratio Lower Upper
45 100
46 0.0 14.8 59.0#



#14
Bromoethene
Concen: 0.105 ppbv m
RT: 3.391 min Scan# 245
Delta R.T. 0.006 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

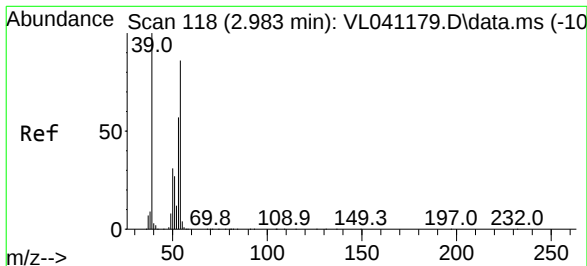
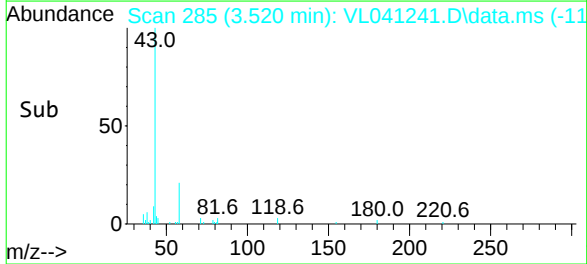
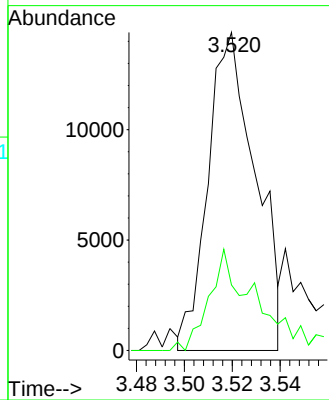
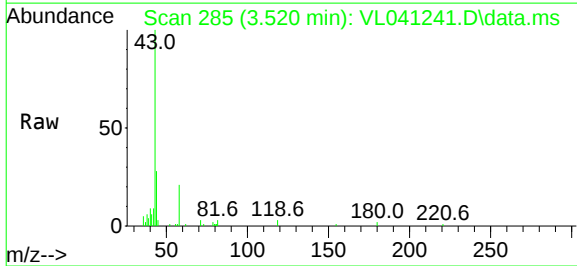
Tgt Ion: 108 Resp: 3573
Ion Ratio Lower Upper
108 100
106 116.2 88.2 132.4
79 10.7 17.4 26.0#





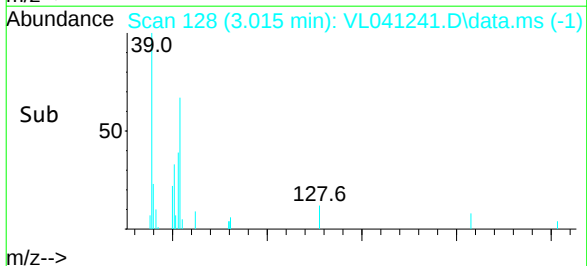
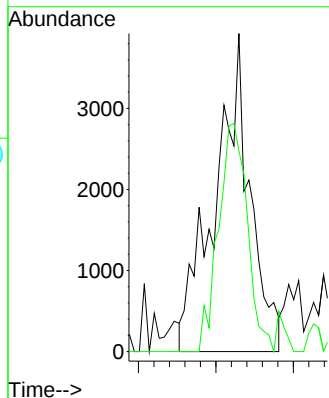
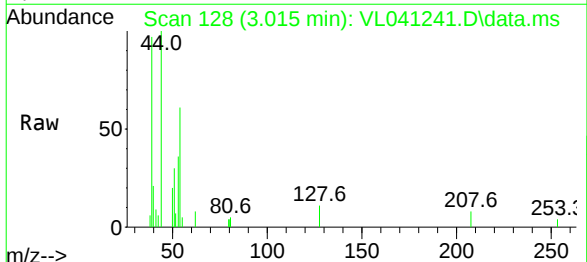
#15
Acetone
Concen: 0.206 ppbv m
RT: 3.520 min Scan# 285
Delta R.T. 0.035 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

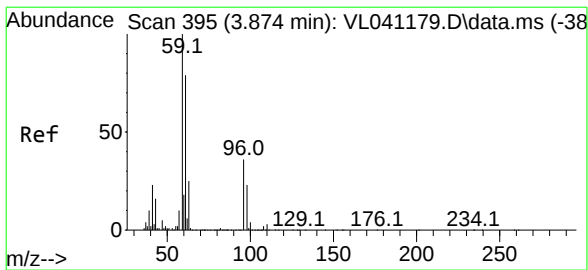
Tgt Ion: 43 Resp: 19789
Ion Ratio Lower Upper
43 100
58 0.0 21.4 32.0#



#16
1,3-Butadiene
Concen: 0.127 ppbv m
RT: 3.015 min Scan# 128
Delta R.T. 0.013 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

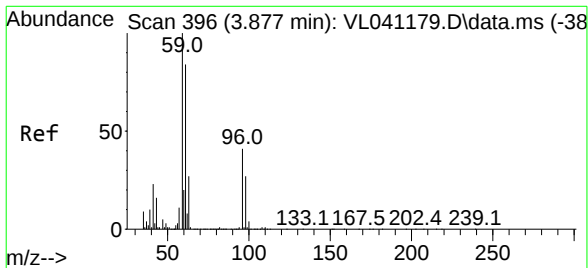
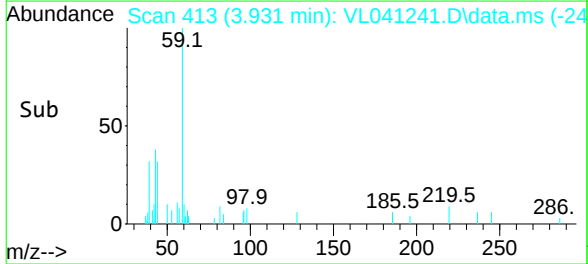
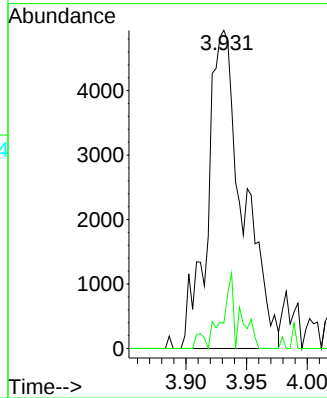
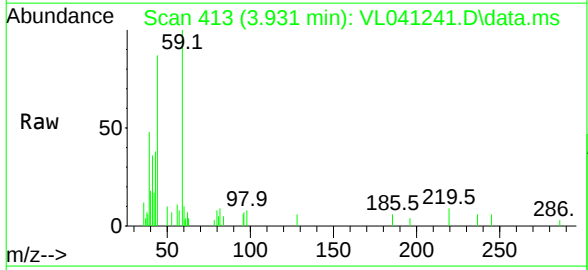
Tgt Ion: 39 Resp: 6167
Ion Ratio Lower Upper
39 100
54 0.0 62.2 93.4#





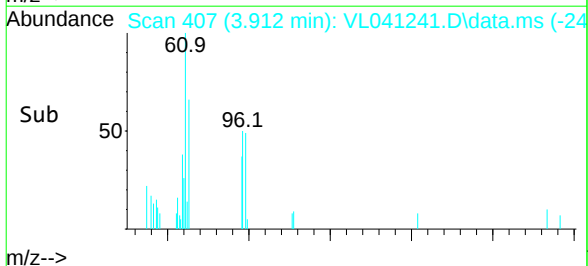
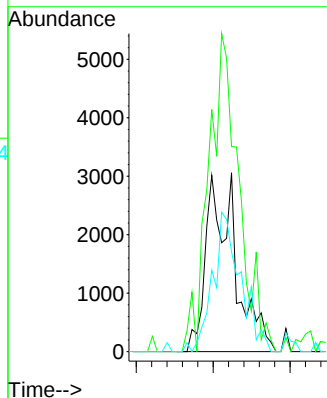
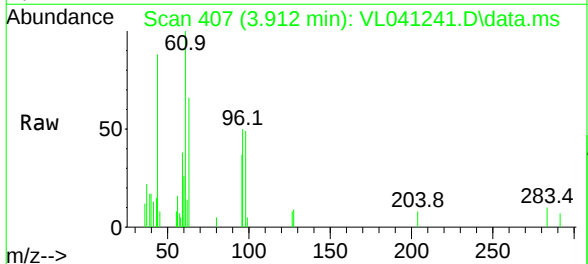
#17
tert-Butyl alcohol
Concen: 0.097 ppbv m
RT: 3.931 min Scan# 413
Delta R.T. 0.035 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

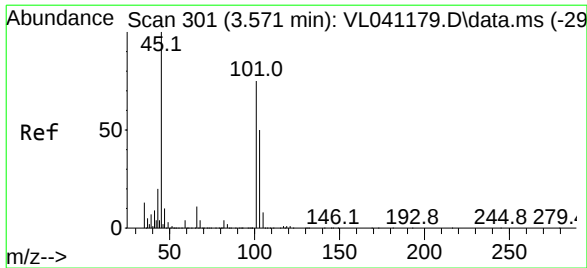
Tgt Ion: 59 Resp: 10042
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#



#18
1,1-Dichloroethene
Concen: 0.107 ppbv m
RT: 3.912 min Scan# 407
Delta R.T. 0.016 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

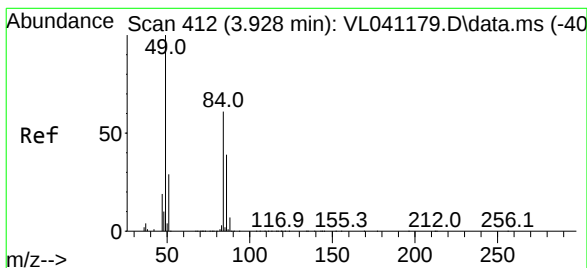
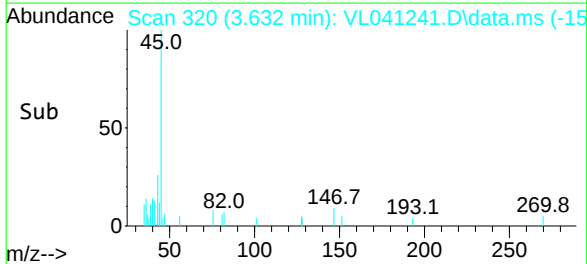
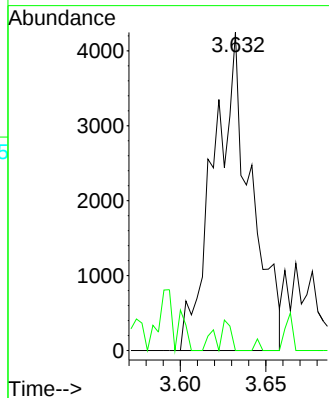
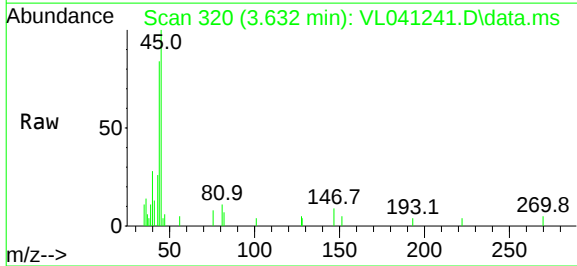
Tgt Ion: 96 Resp: 3949
Ion Ratio Lower Upper
96 100
61 199.1 164.4 246.6
98 97.0 51.8 77.8#





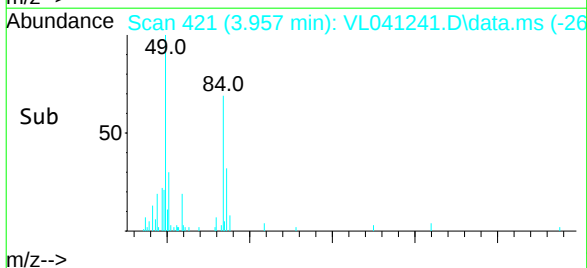
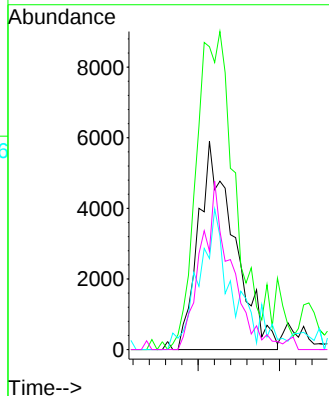
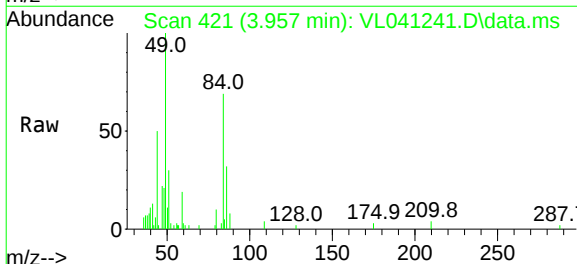
#19
Isopropyl Alcohol
Concen: 0.102 ppbv m
RT: 3.632 min Scan# 320
Delta R.T. 0.042 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

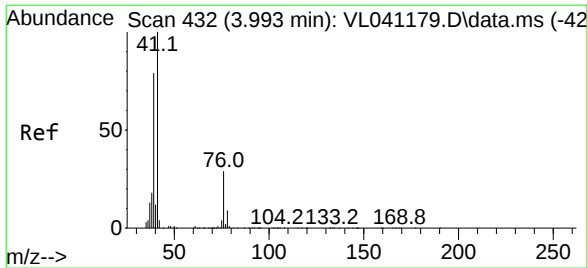
Tgt Ion: 45 Resp: 6452
Ion Ratio Lower Upper
45 100
58 0.0 26.8 40.2#



#20
Methylene Chloride
Concen: 0.269 ppbv m
RT: 3.957 min Scan# 421
Delta R.T. 0.006 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

Tgt Ion: 84 Resp: 8989
Ion Ratio Lower Upper
84 100
49 145.4 130.4 195.6
51 43.7 38.0 57.0
86 47.2 50.3 75.5#





#21

Allyl Chloride

Concen: 0.100 ppbv m

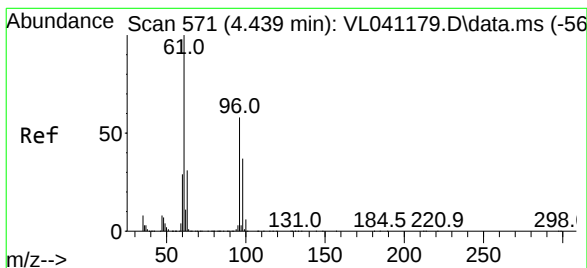
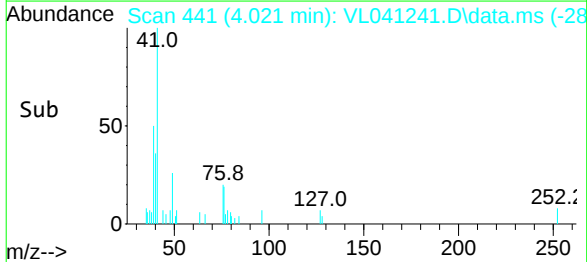
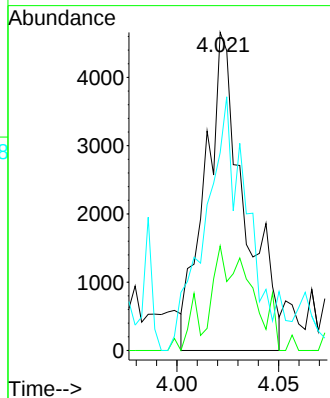
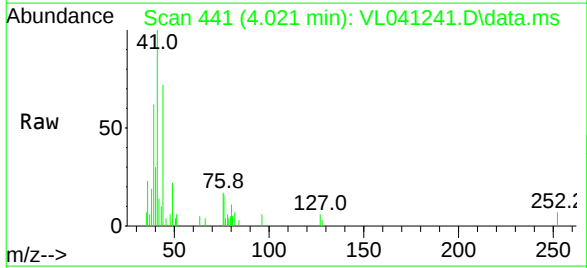
RT: 4.021 min Scan# 441

Delta R.T. 0.006 min

Lab File: VL041241.D

Acq: 8 May 2024 13:13

Tgt Ion: 41	Resp: 6229
Ion Ratio	Lower Upper
41 100	
76 36.6	23.7 35.5#
39 96.1	64.7 97.1



#22

trans-1,2-Dichloroethene

Concen: 0.099 ppbv m

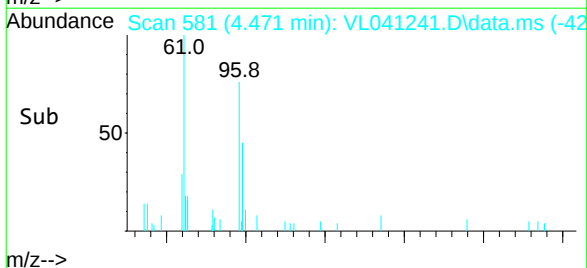
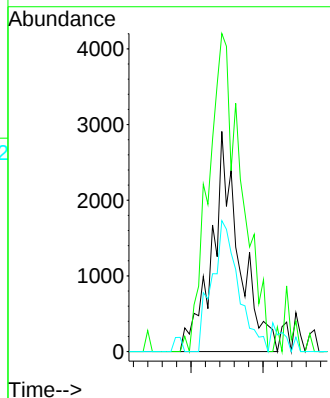
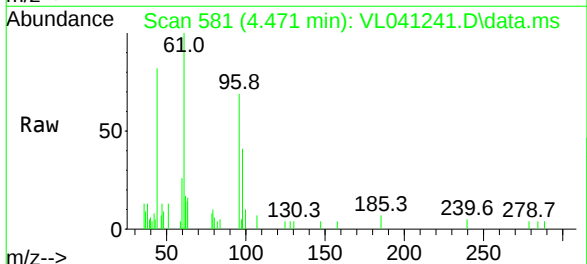
RT: 4.471 min Scan# 581

Delta R.T. 0.009 min

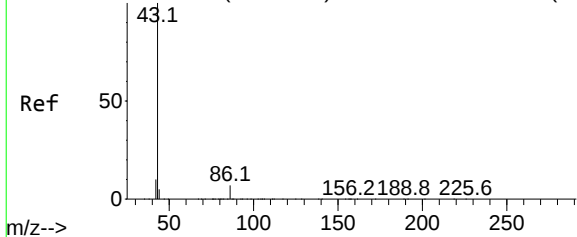
Lab File: VL041241.D

Acq: 8 May 2024 13:13

Tgt Ion: 96	Resp: 3782
Ion Ratio	Lower Upper
96 100	
61 144.5	137.6 206.4
98 59.5	50.6 76.0

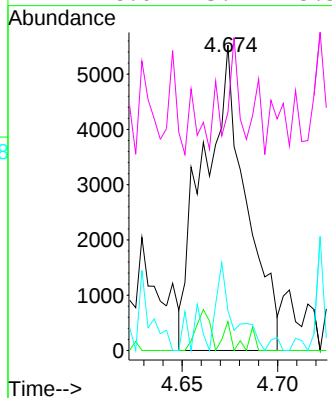
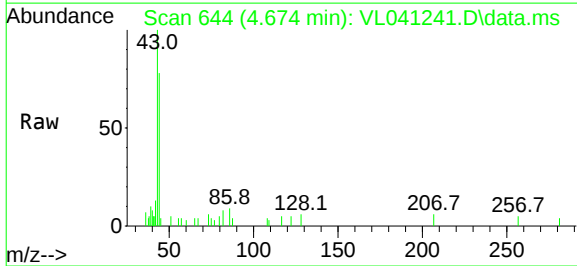


Abundance Scan 628 (4.623 min): VL041179.D\data.ms (-62

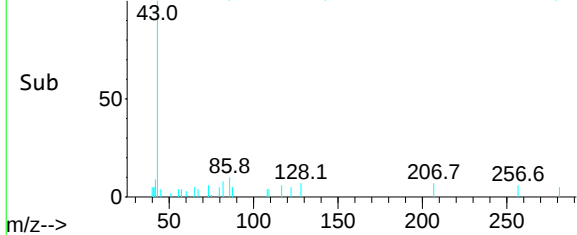


#23
Vinyl Acetate
Concen: 0.081 ppbv m
RT: 4.674 min Scan# 644
Delta R.T. 0.029 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

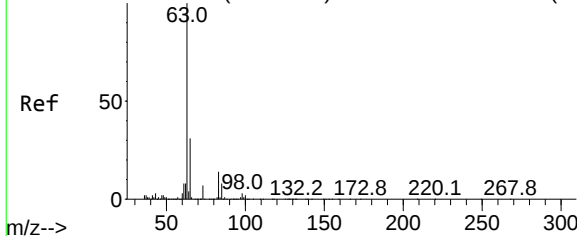
Tgt Ion:	43	Resp:	8561
Ion	Ratio	Lower	Upper
43	100		
86	9.5	4.9	7.3#
42	13.0	8.0	12.0#
44	78.0	3.7	5.5#



Abundance Scan 644 (4.674 min): VL041241.D\data.ms (-48

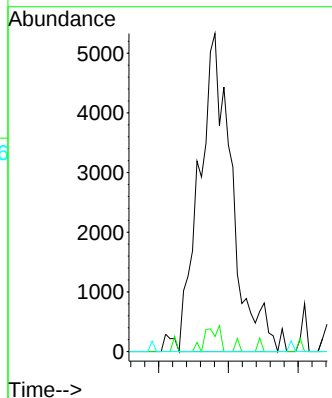
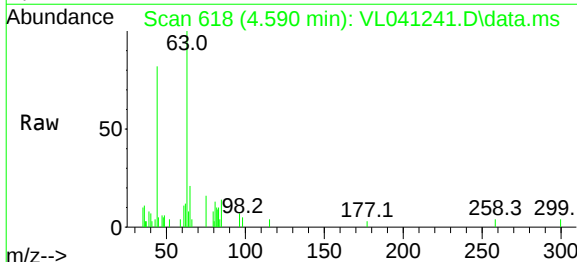


Abundance Scan 608 (4.558 min): VL041179.D\data.ms (-59

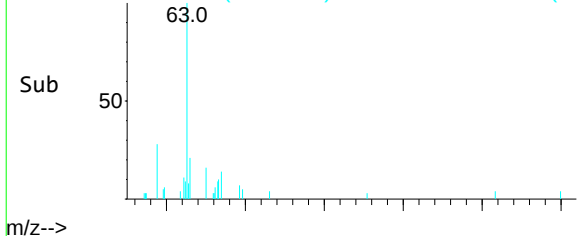


#24
1,1-Dichloroethane
Concen: 0.105 ppbv m
RT: 4.590 min Scan# 618
Delta R.T. 0.006 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

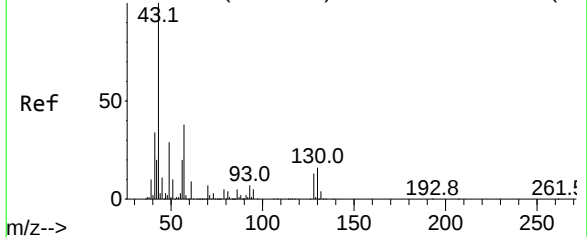
Tgt Ion:	63	Resp:	8660
Ion	Ratio	Lower	Upper
63	100		
98	4.7	1.6	4.8
100	0.0	1.1	3.5#



Abundance Scan 618 (4.590 min): VL041241.D\data.ms (-46



Abundance Scan 808 (5.202 min): VL041179.D\data.ms (-79



#25

Ethyl Acetate

Concen: 0.105 ppbv m

RT: 5.246 min Scan# 822

Delta R.T. 0.026 min

Lab File: VL041241.D

Acq: 8 May 2024 13:13

Tgt Ion: 43 Resp: 20037

Ion Ratio Lower Upper

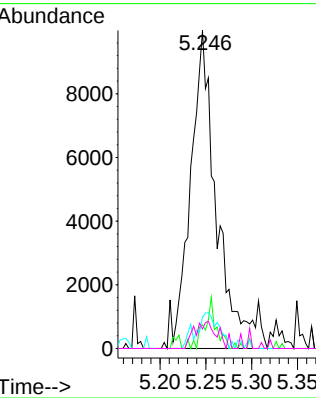
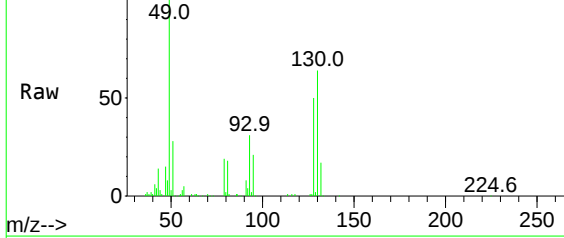
43 100

45 0.0 8.2 12.2#

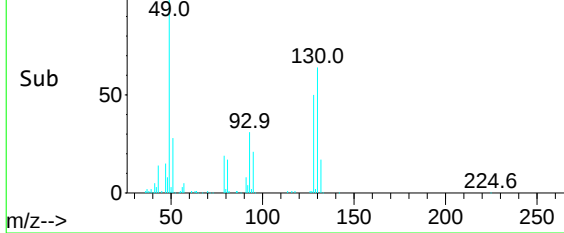
61 0.0 7.7 11.5#

70 0.0 5.8 8.6#

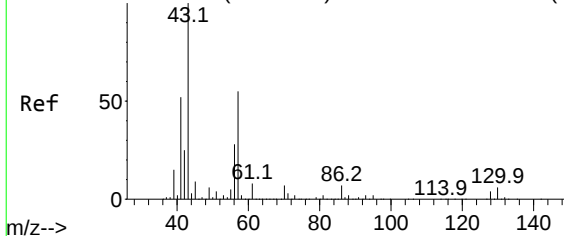
Abundance Scan 822 (5.246 min): VL041241.D\data.ms



Abundance Scan 822 (5.246 min): VL041241.D\data.ms (-65



Abundance Scan 810 (5.208 min): VL041179.D\data.ms (-79



#26

Hexane

Concen: 0.103 ppbv m

RT: 5.240 min Scan# 820

Delta R.T. 0.009 min

Lab File: VL041241.D

Acq: 8 May 2024 13:13

Tgt Ion: 57 Resp: 8835

Ion Ratio Lower Upper

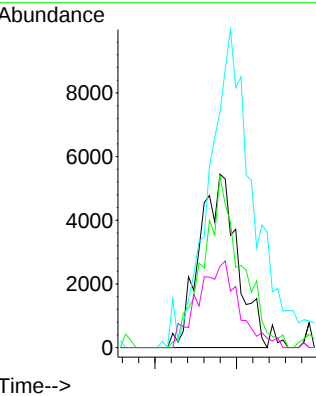
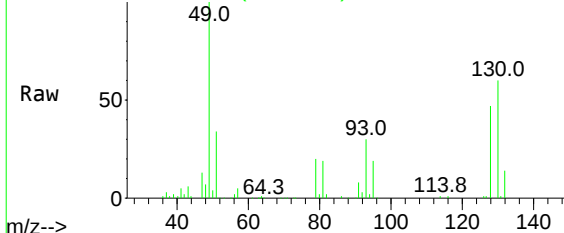
57 100

41 0.0 75.8 113.8#

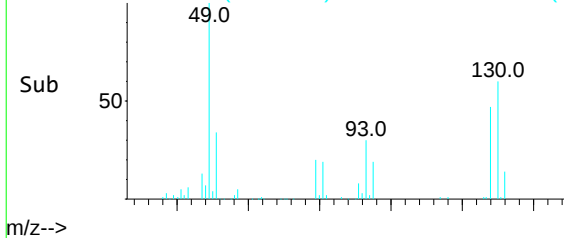
43 0.0 187.0 280.4#

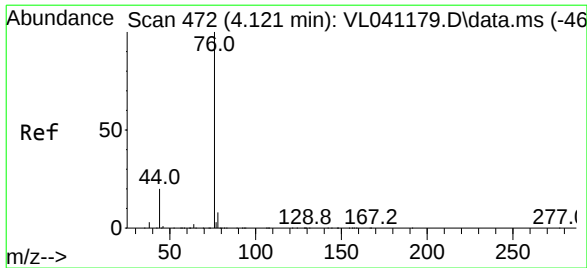
56 0.0 42.7 64.1#

Abundance Scan 820 (5.240 min): VL041241.D\data.ms



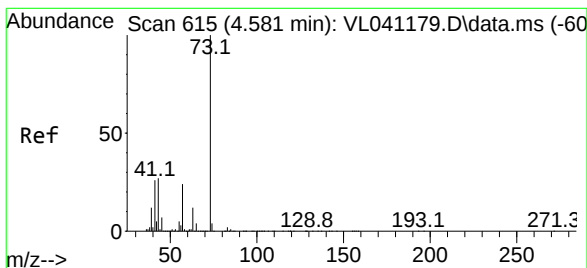
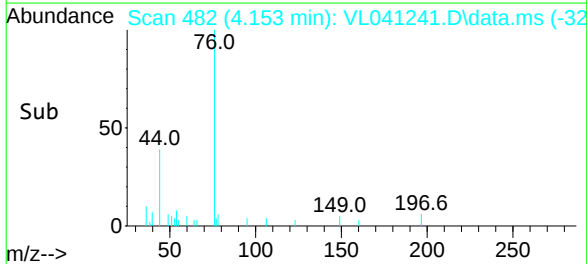
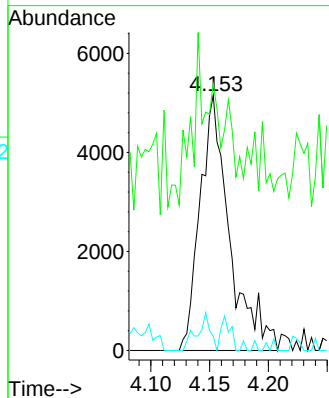
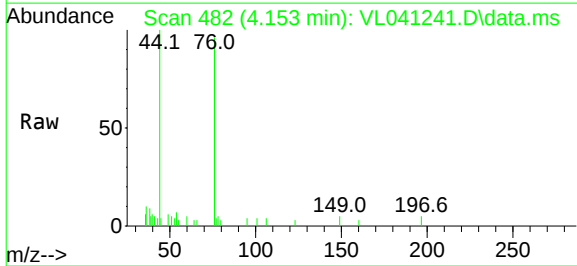
Abundance Scan 820 (5.240 min): VL041241.D\data.ms (-66





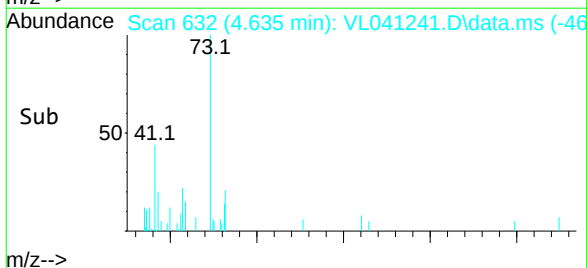
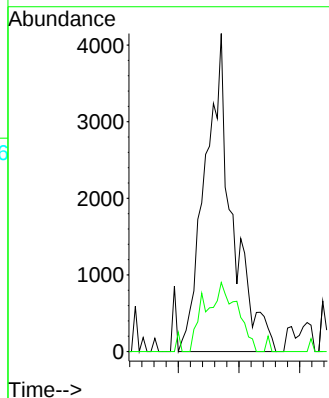
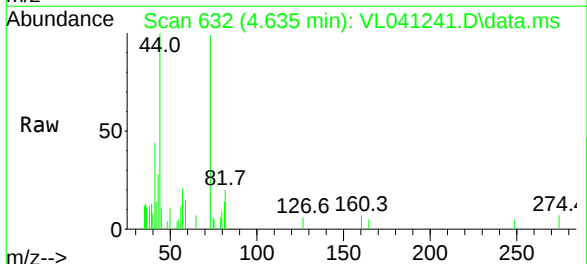
#27
Carbon Disulfide
Concen: 0.089 ppbv m
RT: 4.153 min Scan# 482
Delta R.T. 0.013 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

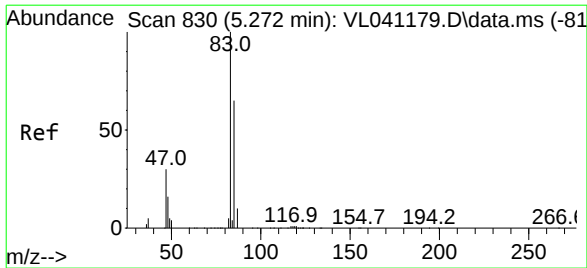
Tgt Ion	Ratio	Lower	Upper
76	100		
44	77.4	16.3	24.5#
78	11.2	7.3	10.9#



#28
Methyl tert-Butyl Ether
Concen: 0.095 ppbv m
RT: 4.635 min Scan# 632
Delta R.T. 0.032 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

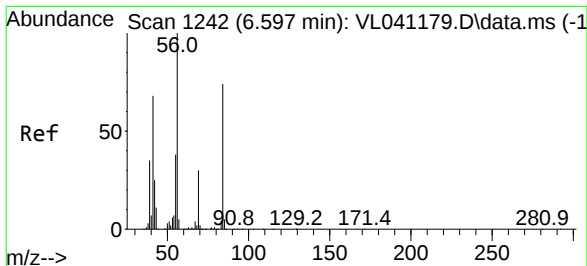
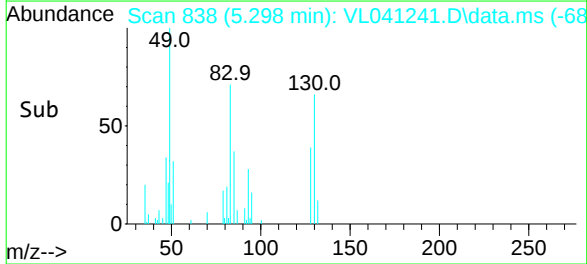
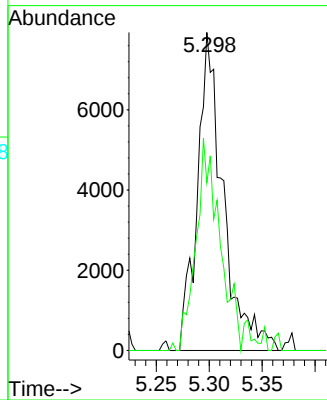
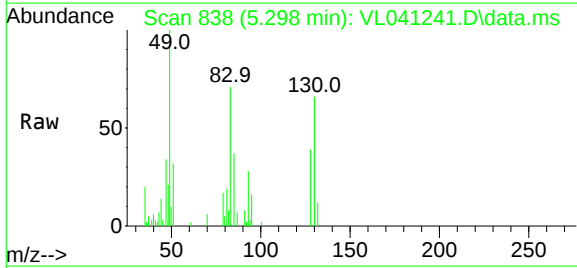
Tgt Ion	Ratio	Lower	Upper
73	100		
57	0.0	18.8	28.2#





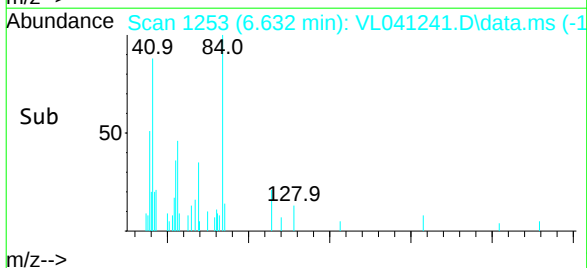
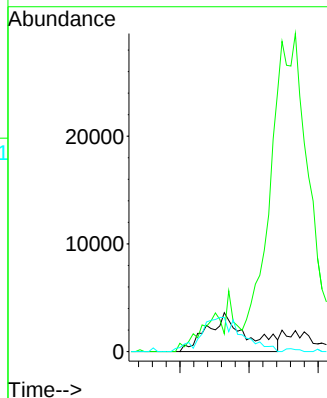
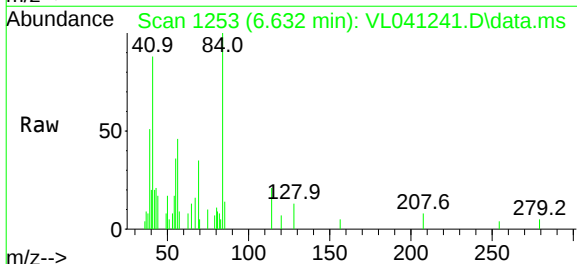
#29
Chloroform
Concen: 0.114 ppbv m
RT: 5.298 min Scan# 838
Delta R.T. 0.003 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

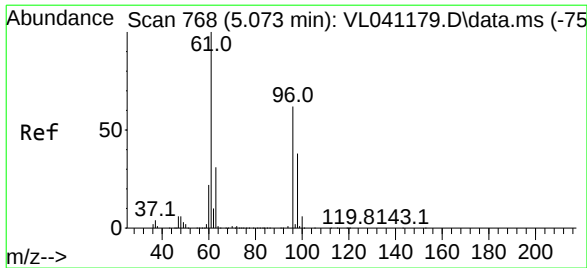
Tgt Ion	Ratio	Lower	Upper
83	100		
85	52.8	51.7	77.5



#30
Cyclohexane
Concen: 0.104 ppbv m
RT: 6.632 min Scan# 1253
Delta R.T. 0.009 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

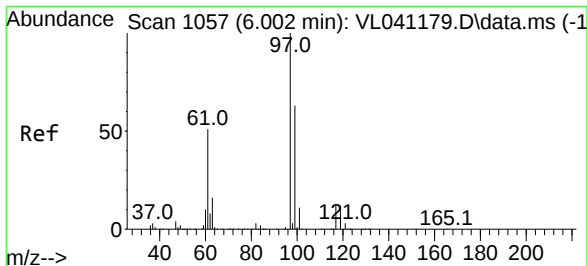
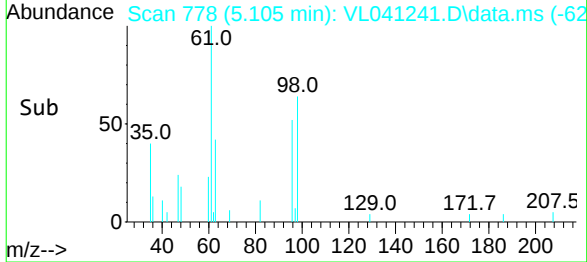
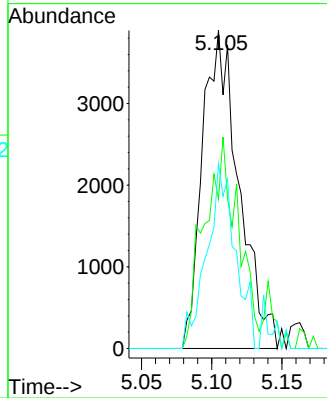
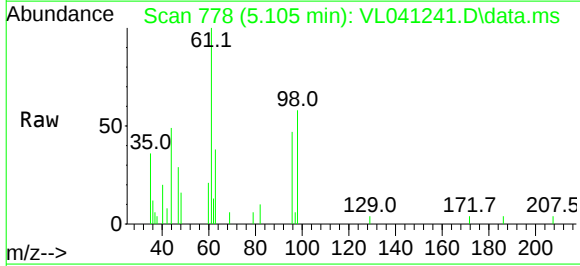
Tgt Ion	Ratio	Lower	Upper
84	100		
56	0.0	116.8	175.2#
41	94.5	73.8	110.8





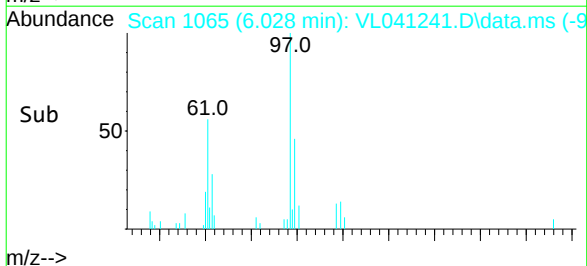
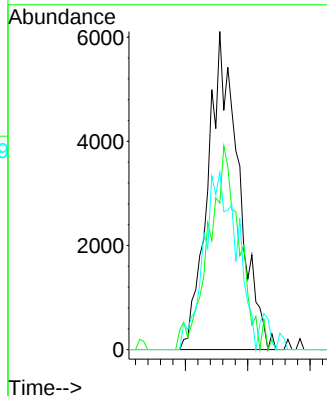
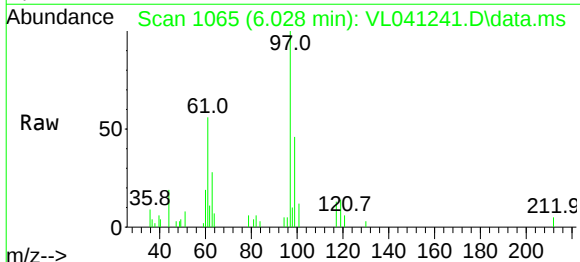
#31
cis-1,2-Dichloroethene
Concen: 0.088 ppbv m
RT: 5.105 min Scan# 778
Delta R.T. 0.009 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

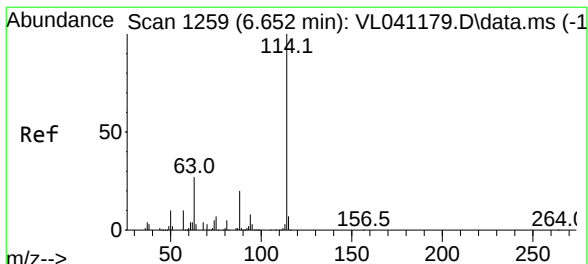
Tgt Ion	Ratio	Lower	Upper
61	100		
96	47.0	49.8	74.6#
98	58.2	30.0	45.0#



#32
1,1,1-Trichloroethane
Concen: 0.089 ppbv m
RT: 6.028 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

Tgt Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.7	77.5#
61	64.7	41.1	61.7#

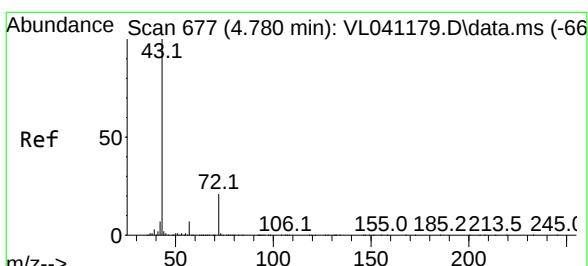
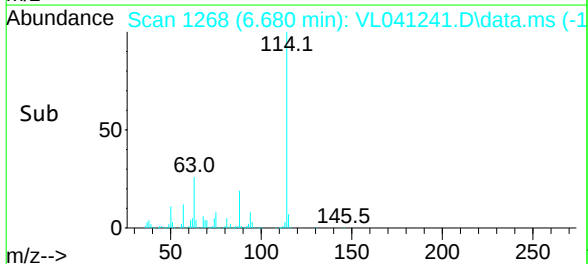
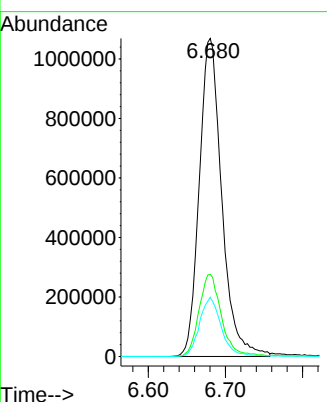
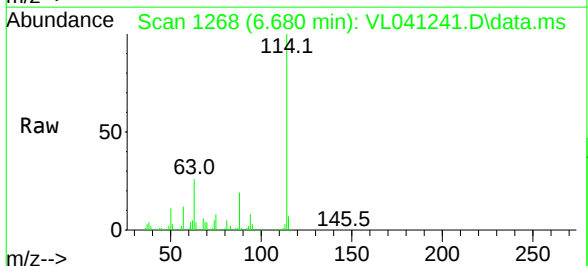




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 6.680 min Scan# 1268
 Delta R.T. 0.006 min
 Lab File: VL041241.D
 Acq: 8 May 2024 13:13

Tgt Ion: 114 Resp: 2161532

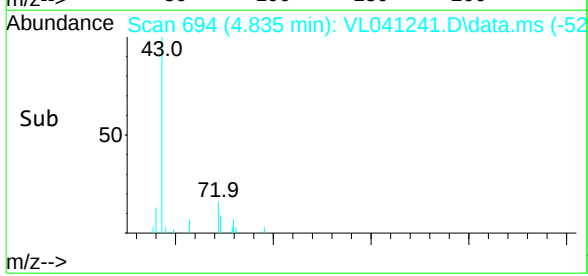
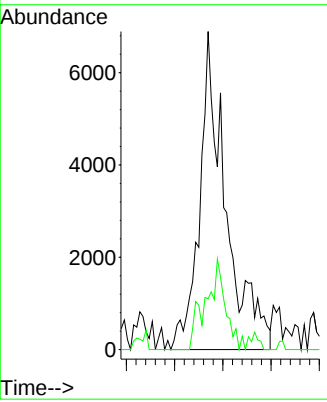
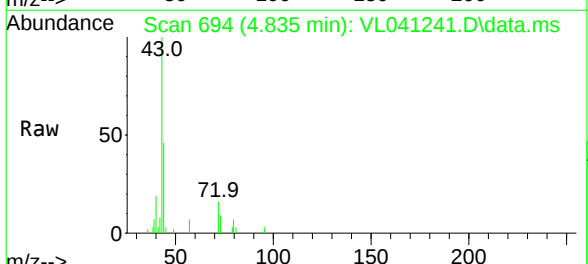
Ion	Ratio	Lower	Upper
114	100		
63	26.2	21.8	32.6
88	18.2	15.2	22.8

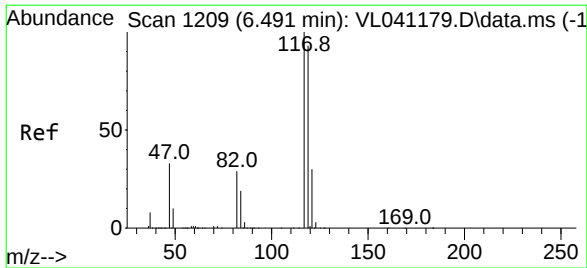


#34
 2-Butanone
 Concen: 0.118 ppbv m
 RT: 4.835 min Scan# 694
 Delta R.T. 0.032 min
 Lab File: VL041241.D
 Acq: 8 May 2024 13:13

Tgt Ion: 43 Resp: 12988

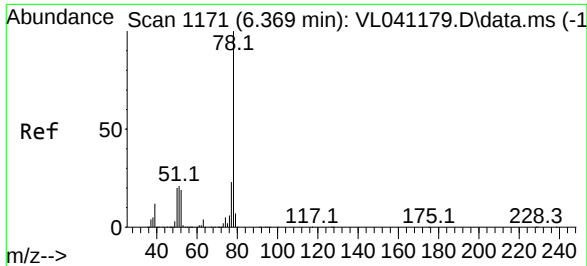
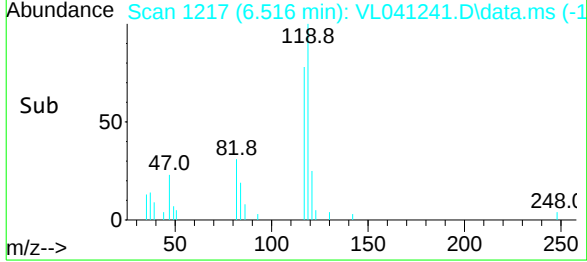
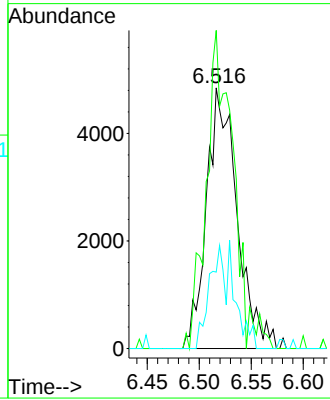
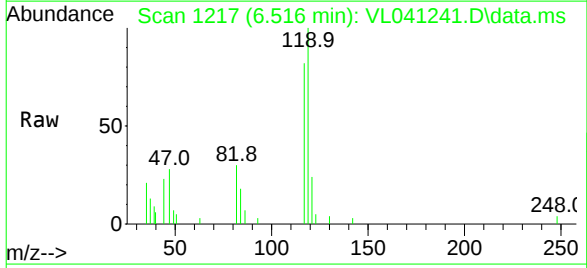
Ion	Ratio	Lower	Upper
43	100		
72	0.0	17.3	25.9





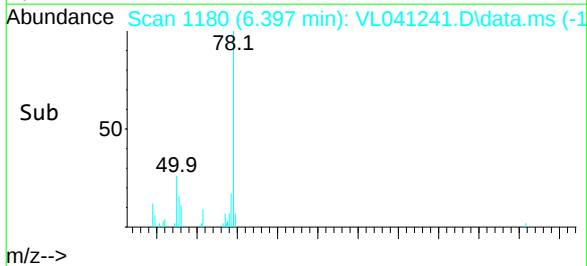
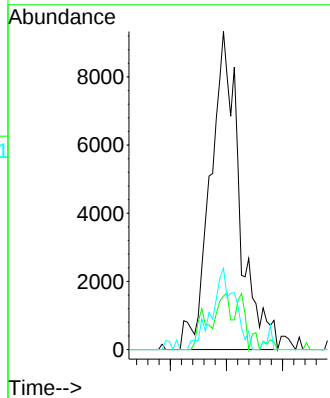
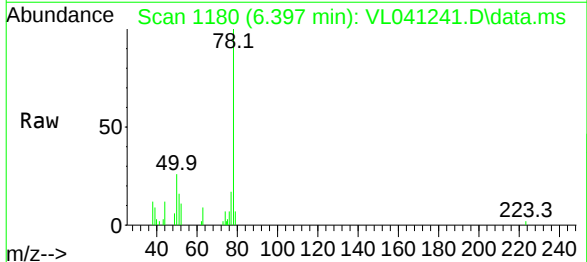
#35
Carbon Tetrachloride
Concen: 0.082 ppbv m
RT: 6.516 min Scan# 1217
Delta R.T. 0.003 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

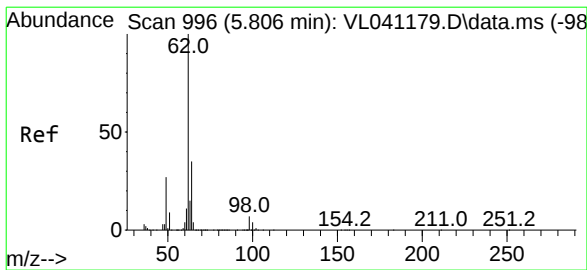
Tgt Ion	Ratio	Lower	Upper
117	100		
119	122.1	74.3	111.5#
121	29.3	23.8	35.8



#36
Benzene
Concen: 0.092 ppbv m
RT: 6.397 min Scan# 1180
Delta R.T. 0.006 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

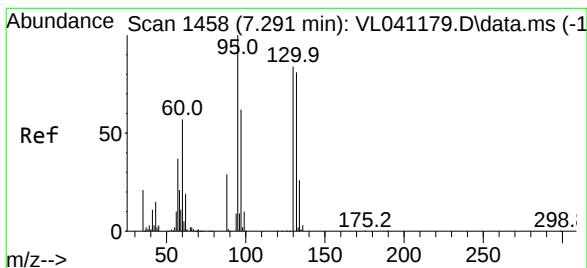
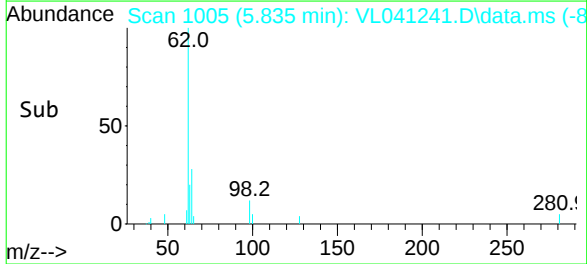
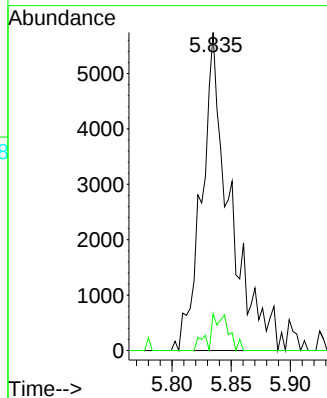
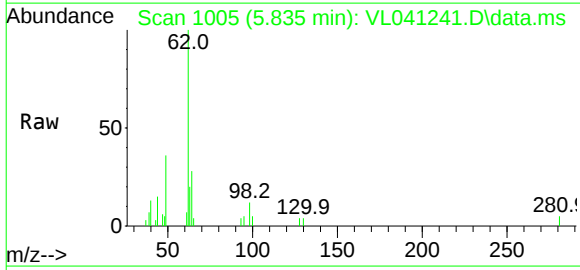
Tgt Ion	Ratio	Lower	Upper
78	100		
77	16.8	18.3	27.5#
50	25.6	15.9	23.9#





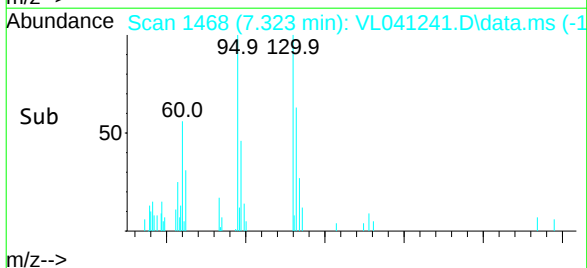
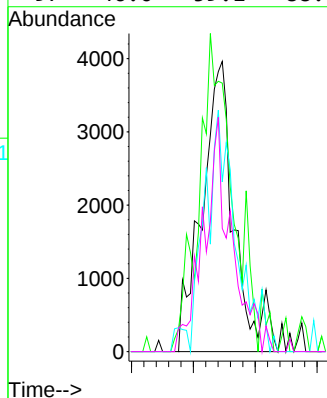
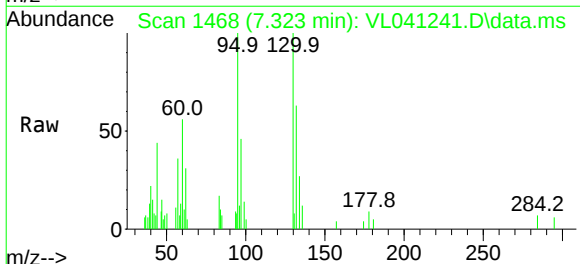
#37
1,2-Dichloroethane
Concen: 0.100 ppbv m
RT: 5.835 min Scan# 1005
Delta R.T. 0.006 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

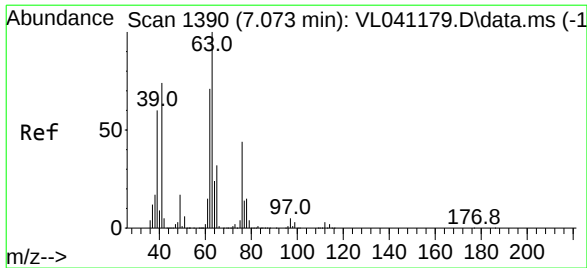
Tgt Ion: 62 Resp: 9470
Ion Ratio Lower Upper
62 100
98 7.8 5.0 7.4#



#38
Trichloroethene
Concen: 0.106 ppbv m
RT: 7.323 min Scan# 1468
Delta R.T. 0.013 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

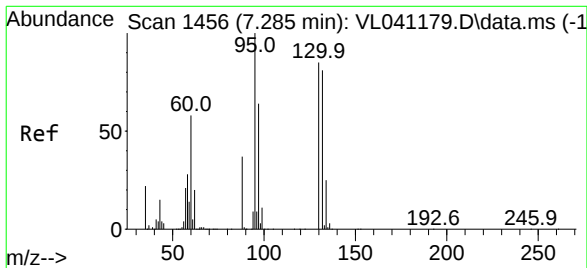
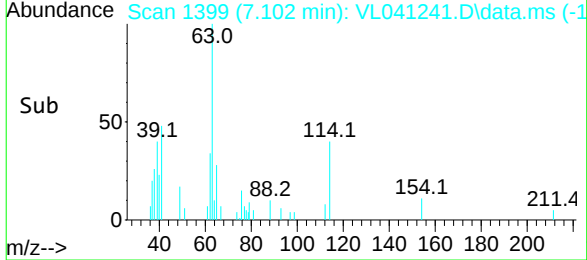
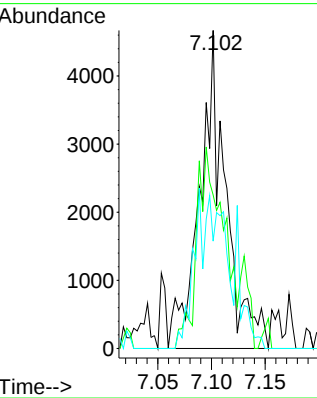
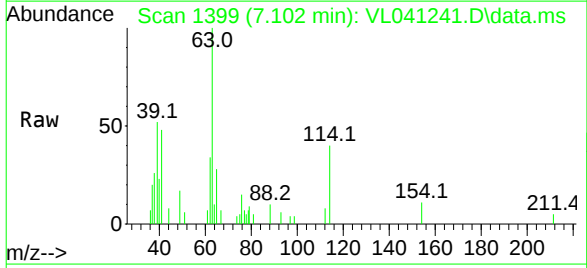
Tgt Ion: 130 Resp: 7147
Ion Ratio Lower Upper
130 100
95 100.2 95.0 142.6
132 63.3 77.0 115.4#
97 46.0 59.1 88.7#





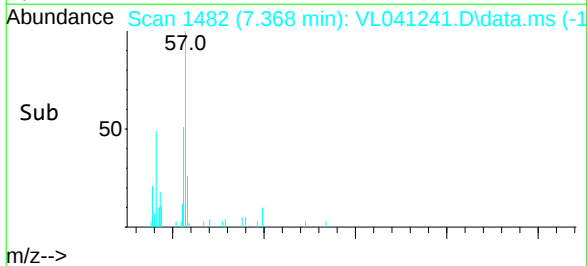
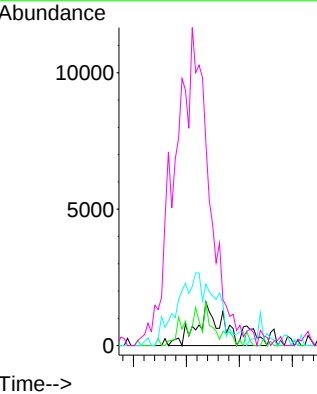
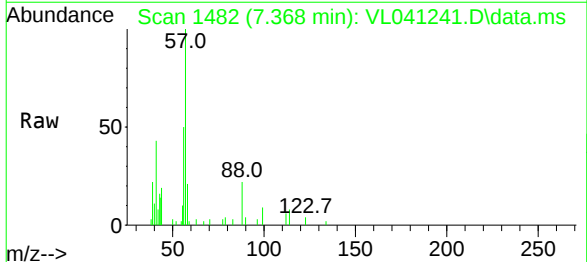
#39
1,2-Dichloropropane
Concen: 0.112 ppbv m
RT: 7.102 min Scan# 1399
Delta R.T. 0.009 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

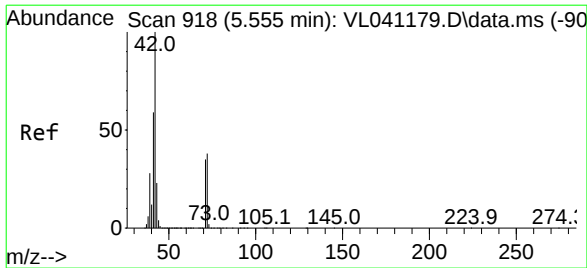
Tgt Ion	Ratio	Lower	Upper
63	100		
41	48.3	59.4	89.0#
62	33.8	56.8	85.2#



#40
1,4-Dioxane
Concen: 0.126 ppbv m
RT: 7.368 min Scan# 1482
Delta R.T. 0.067 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

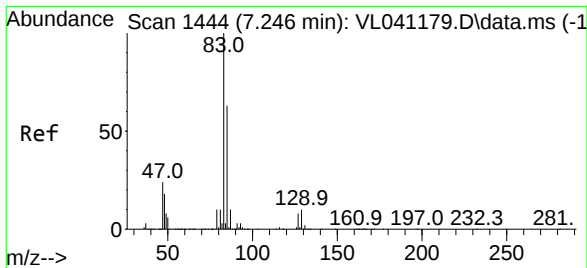
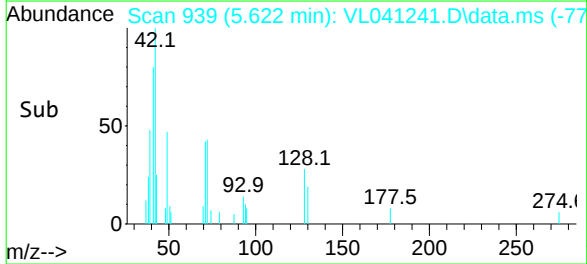
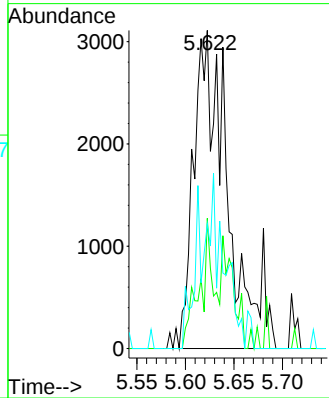
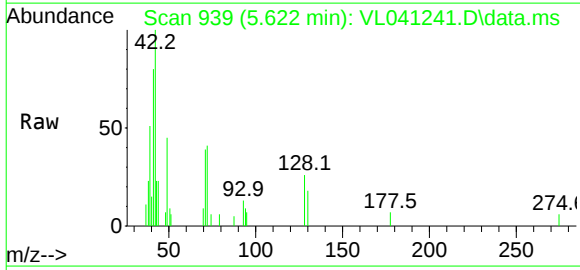
Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	106.1	159.1#
43	0.0	219.8	329.6#
57	0.0	936.0	1404.0#





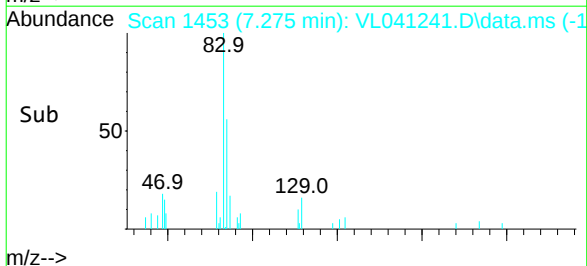
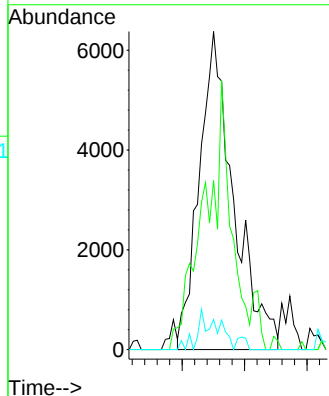
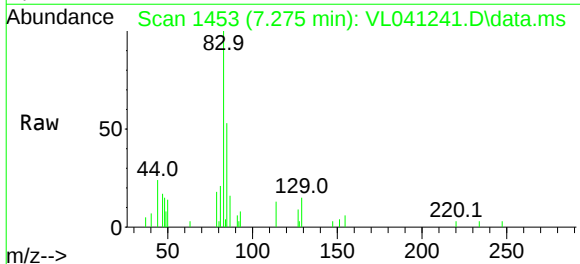
#41
Tetrahydrofuran
Concen: 0.094 ppbv m
RT: 5.622 min Scan# 939
Delta R.T. 0.045 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

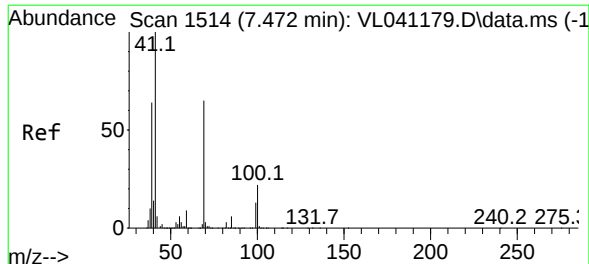
Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.0	29.4	44.0#
71	0.0	29.1	43.7#



#42
Bromodichloromethane
Concen: 0.090 ppbv m
RT: 7.275 min Scan# 1453
Delta R.T. 0.006 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

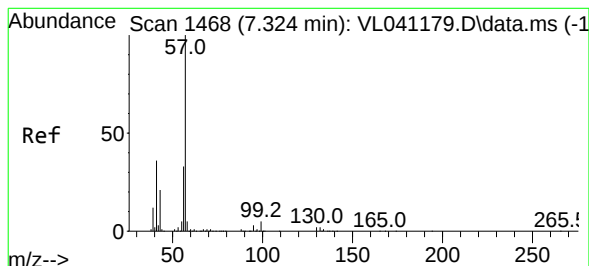
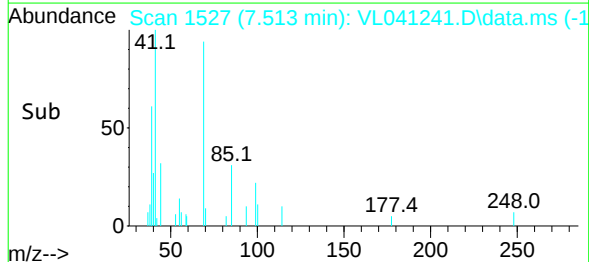
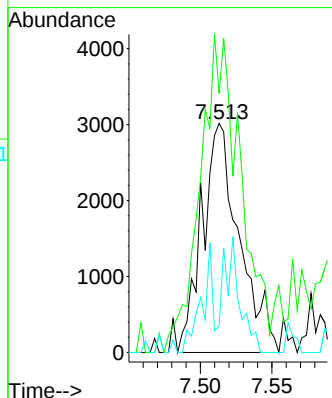
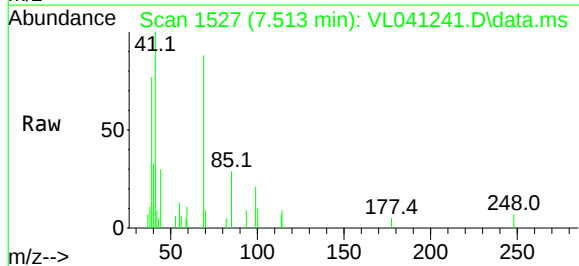
Tgt Ion	Ratio	Lower	Upper
83	100		
85	53.1	50.6	75.8
127	9.4	6.2	9.4#





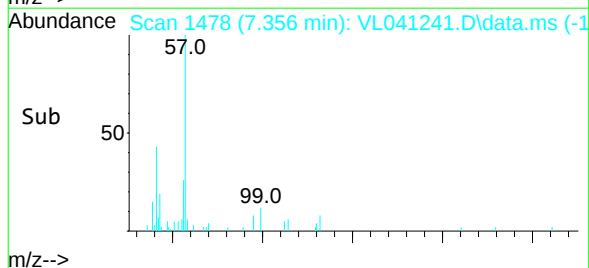
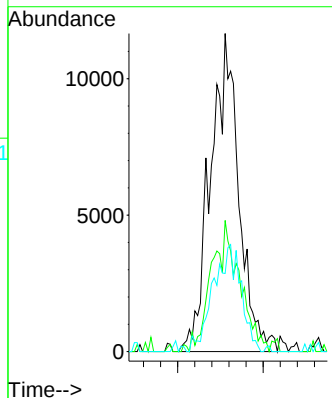
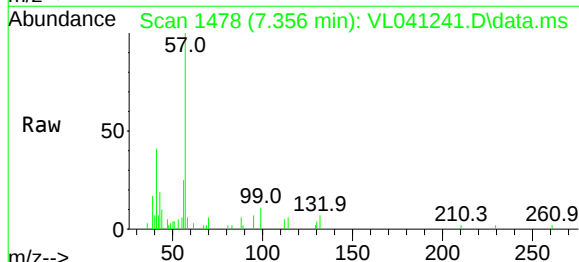
#43
Methyl Methacrylate
Concen: 0.074 ppbv m
RT: 7.513 min Scan# 1527
Delta R.T. 0.019 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

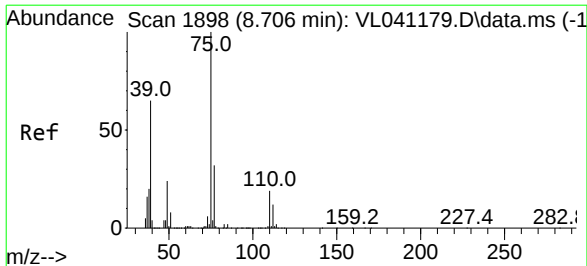
Tgt Ion	Ratio	Lower	Upper
69	100		
41	0.0	125.2	187.8#
100	0.0	26.7	40.1#



#44
2,2,4-Trimethylpentane
Concen: 0.086 ppbv m
RT: 7.356 min Scan# 1478
Delta R.T. 0.009 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

Tgt Ion	Ratio	Lower	Upper
57	100		
41	42.0	29.5	44.3
56	0.0	25.3	37.9#





#45

t-1,3-Dichloropropene

Concen: 0.059 ppbv m

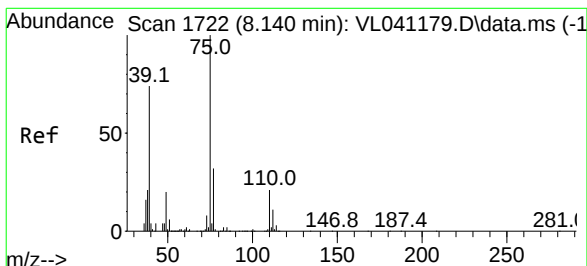
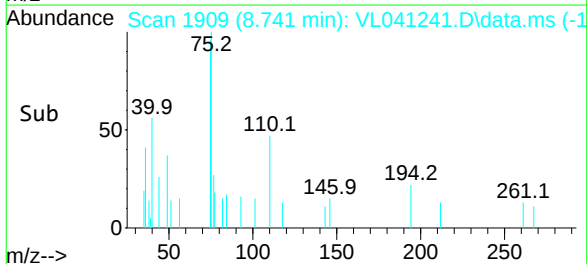
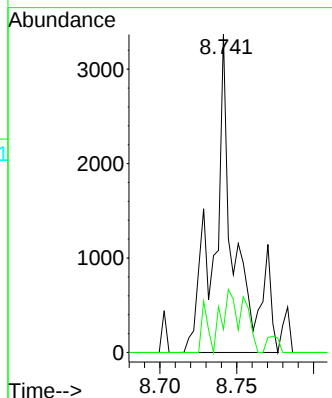
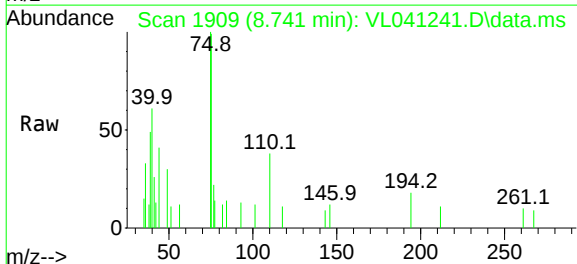
RT: 8.741 min Scan# 1909

Delta R.T. 0.009 min

Lab File: VL041241.D

Acq: 8 May 2024 13:13

Tgt Ion: 75 Resp: 3135
 Ion Ratio Lower Upper
 75 100
 77 14.6 25.6 38.4#



#46

cis-1,3-Dichloropropene

Concen: 0.066 ppbv m

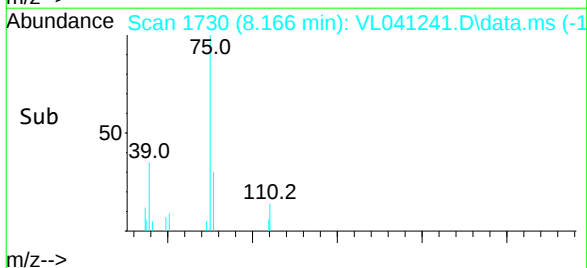
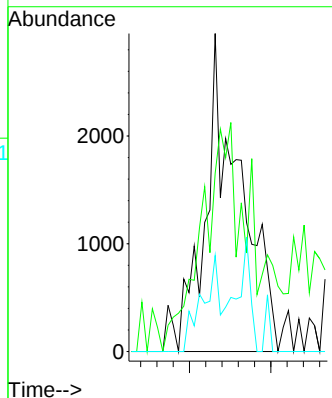
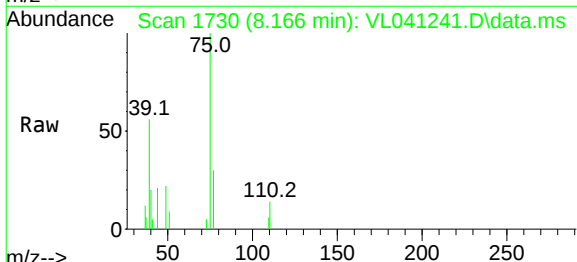
RT: 8.166 min Scan# 1730

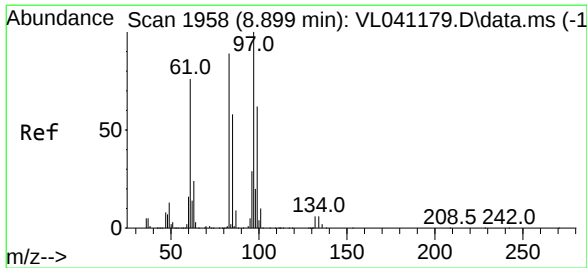
Delta R.T. 0.003 min

Lab File: VL041241.D

Acq: 8 May 2024 13:13

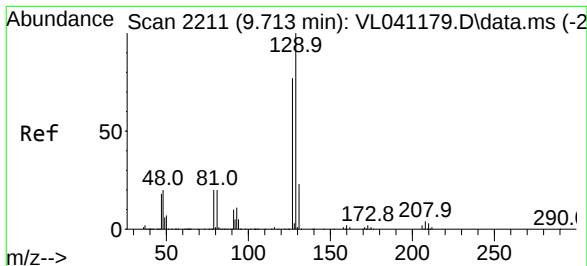
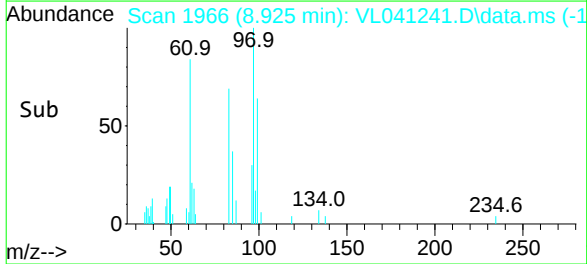
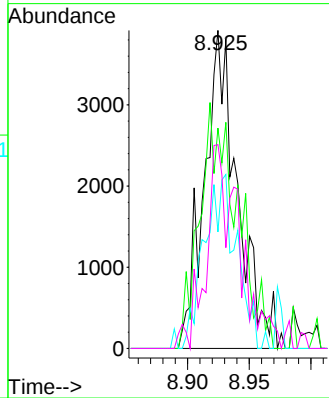
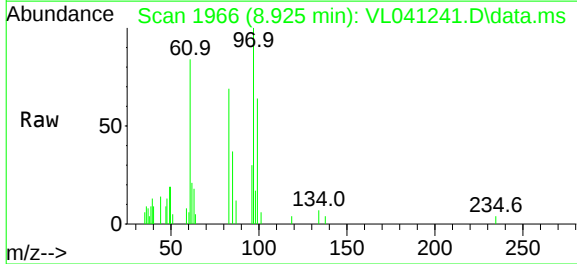
Tgt Ion: 75 Resp: 4315
 Ion Ratio Lower Upper
 75 100
 39 56.0 59.4 89.2#
 77 30.2 25.9 38.9





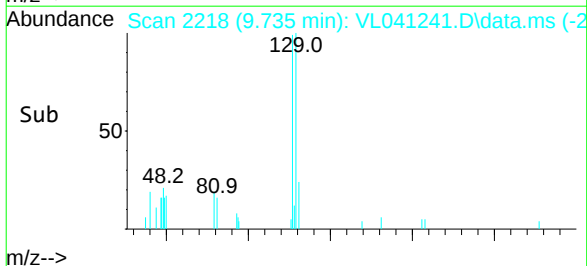
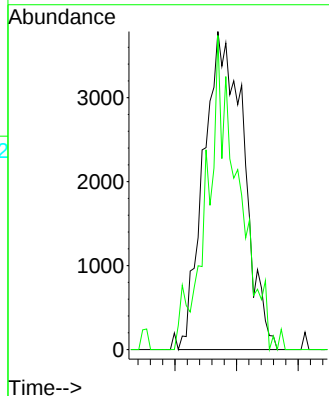
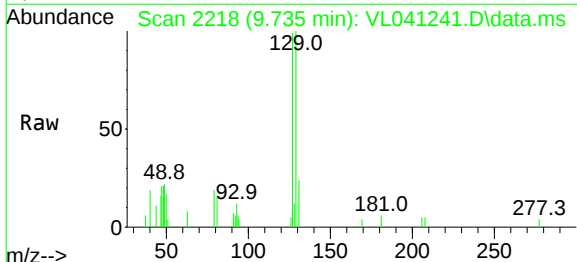
#47
1,1,2-Trichloroethane
Concen: 0.105 ppbv m
RT: 8.925 min Scan# 1966
Delta R.T. 0.003 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

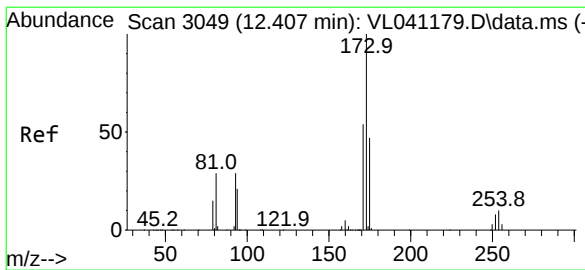
Tgt Ion	Ratio	Lower	Upper
97	100		
83	69.3	71.2	106.8#
85	36.7	46.0	69.0#
99	64.1	49.7	74.5



#48
Dibromochloromethane
Concen: 0.077 ppbv m
RT: 9.735 min Scan# 2218
Delta R.T. 0.003 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.3	39.1	117.5





#49

Bromoform

Concen: 0.068 ppbv m

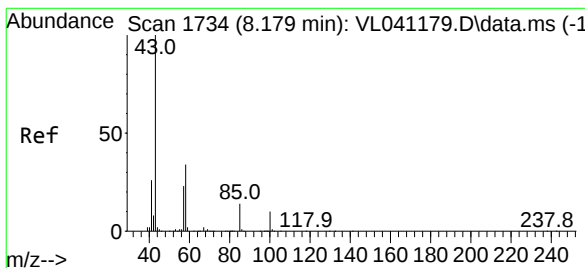
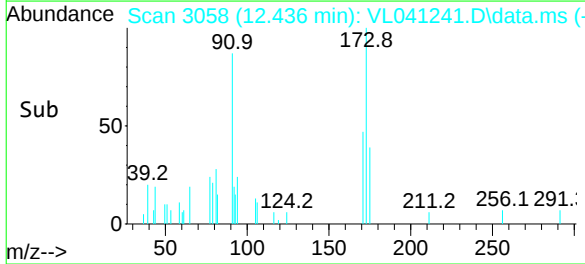
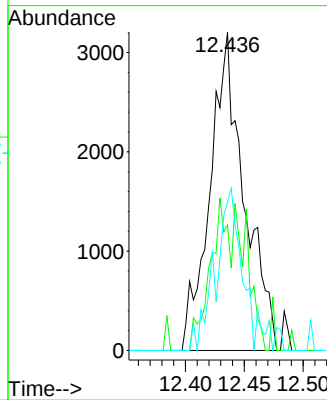
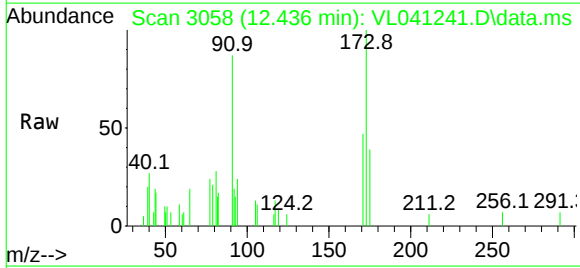
RT: 12.436 min Scan# 3058

Delta R.T. 0.006 min

Lab File: VL041241.D

Acq: 8 May 2024 13:13

Tgt Ion:	173	Resp:	6493
Ion	Ratio	Lower	Upper
173	100		
175	0.0	39.8	59.8#
171	0.0	41.8	62.8#



#50

4-Methyl-2-Pentanone

Concen: 0.093 ppbv m

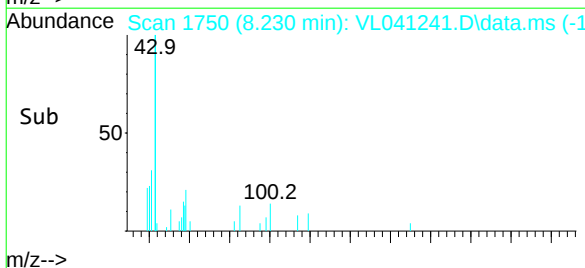
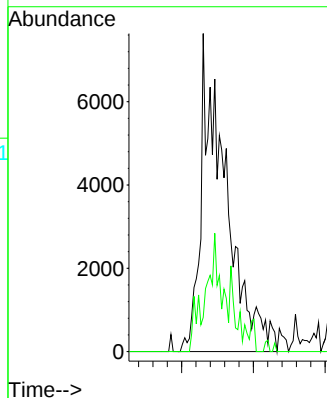
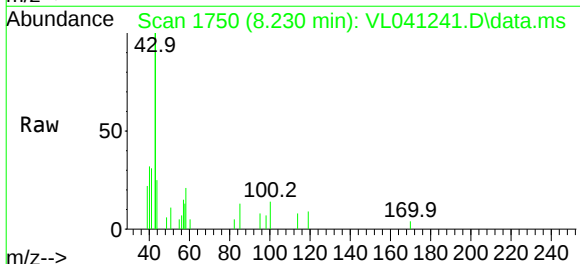
RT: 8.230 min Scan# 1750

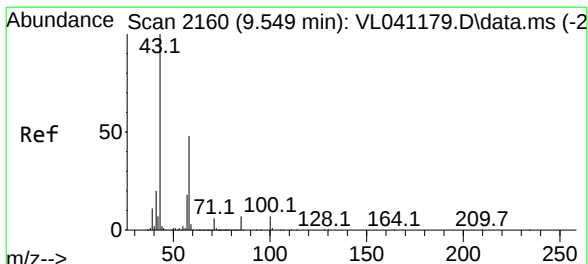
Delta R.T. 0.029 min

Lab File: VL041241.D

Acq: 8 May 2024 13:13

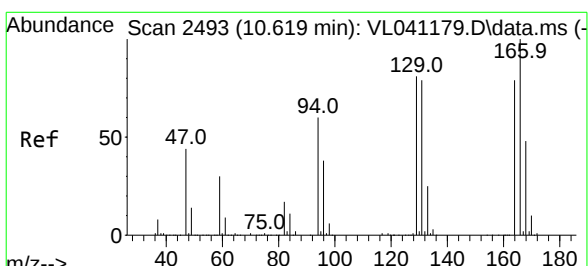
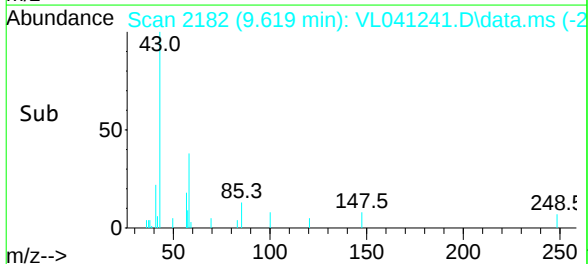
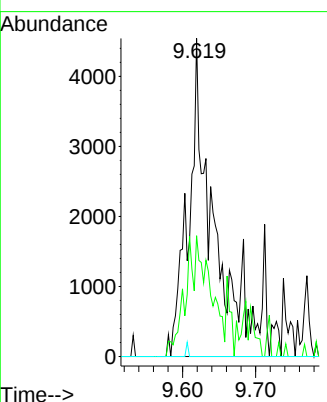
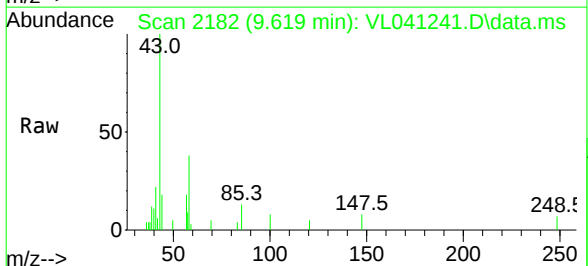
Tgt Ion:	43	Resp:	18351
Ion	Ratio	Lower	Upper
43	100		
58	0.0	27.7	41.5#





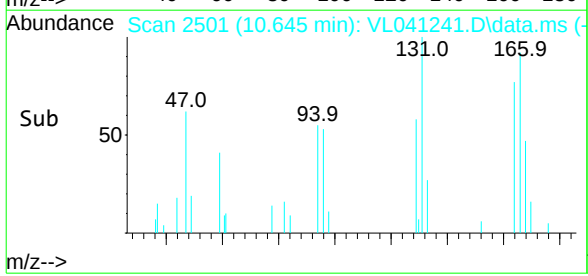
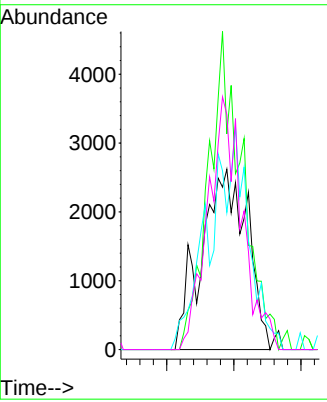
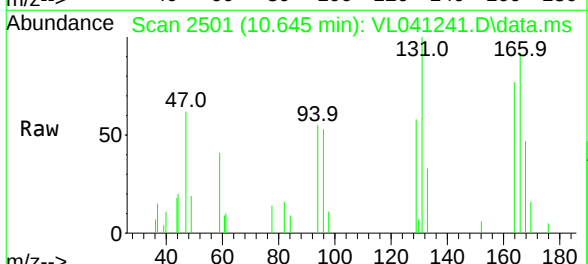
#51
 2-Hexanone
 Concen: 0.076 ppbv m
 RT: 9.619 min Scan# 2182
 Delta R.T. 0.051 min
 Lab File: VL041241.D
 Acq: 8 May 2024 13:13

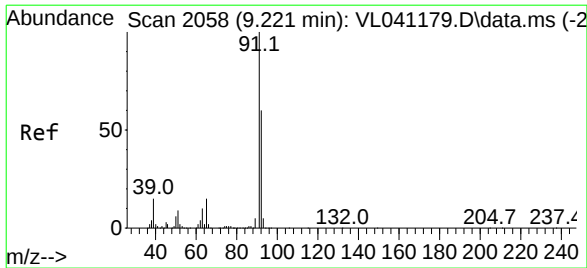
Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	38.4	57.6#
98	0.0	0.0	0.0



#52
 Tetrachloroethene
 Concen: 0.097 ppbv m
 RT: 10.645 min Scan# 2501
 Delta R.T. 0.009 min
 Lab File: VL041241.D
 Acq: 8 May 2024 13:13

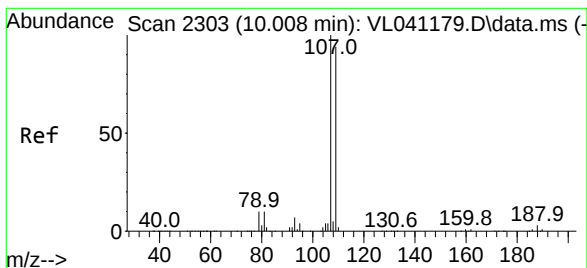
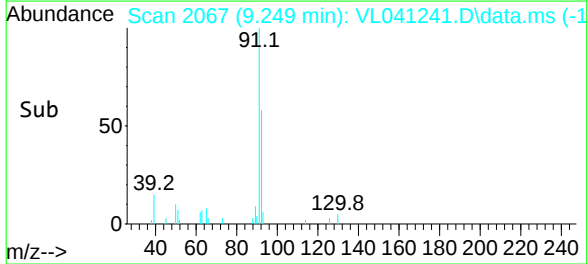
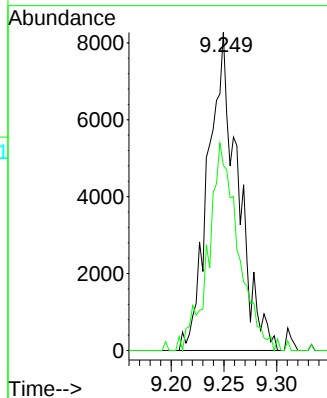
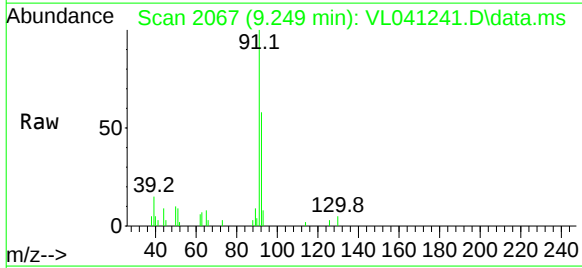
Tgt Ion	Ratio	Lower	Upper
164	100		
166	119.7	101.1	151.7
129	76.1	81.7	122.5#
131	130.3	80.4	120.6#





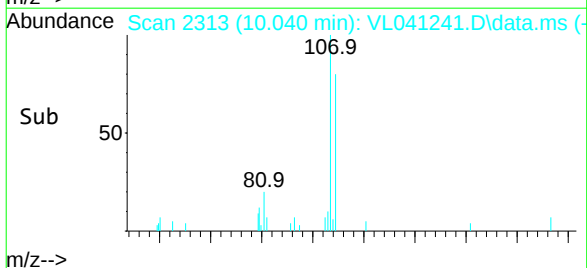
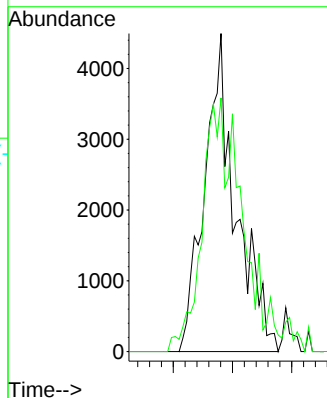
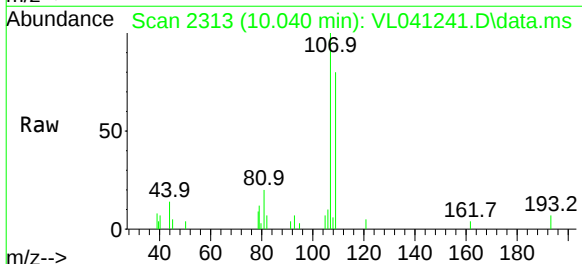
#53
Toluene
Concen: 0.077 ppbv m
RT: 9.249 min Scan# 2067
Delta R.T. 0.009 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

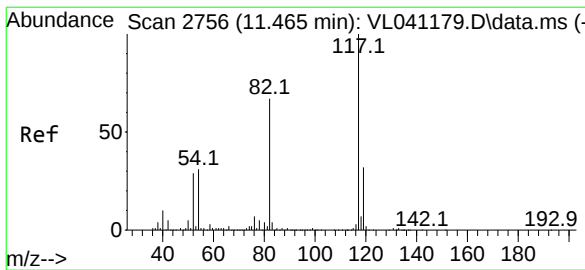
Tgt Ion: 91 Resp: 16191
Ion Ratio Lower Upper
91 100
92 66.0 48.2 72.4



#54
1,2-Dibromoethane
Concen: 0.087 ppbv m
RT: 10.040 min Scan# 2313
Delta R.T. 0.009 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

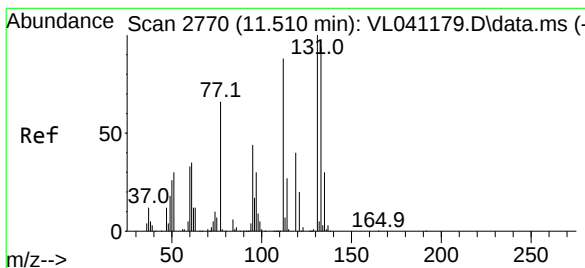
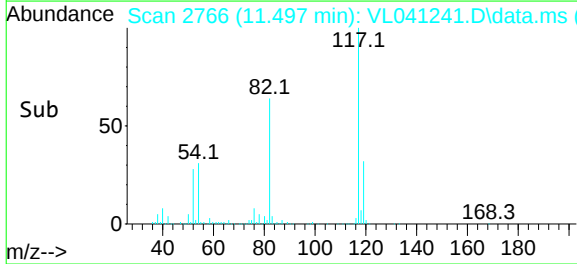
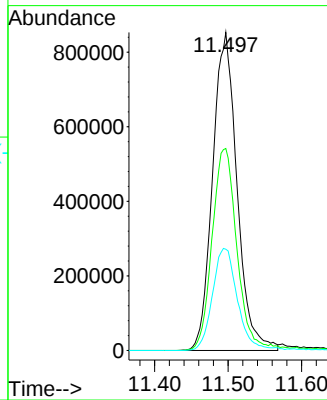
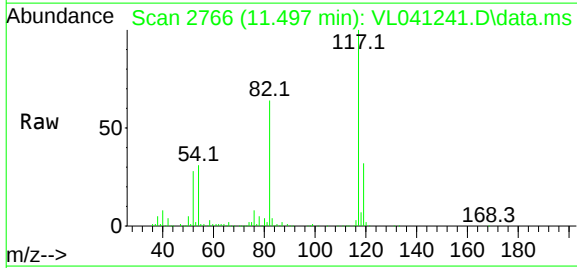
Tgt Ion: 107 Resp: 8242
Ion Ratio Lower Upper
107 100
109 79.8 75.2 112.8





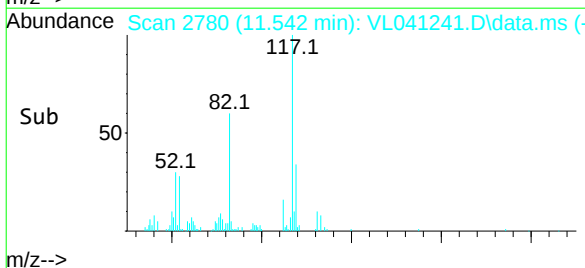
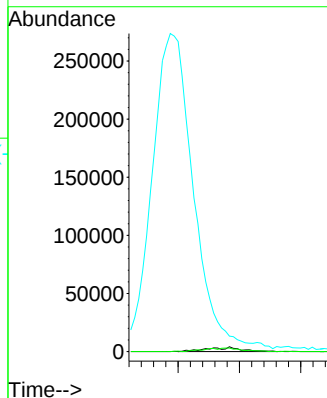
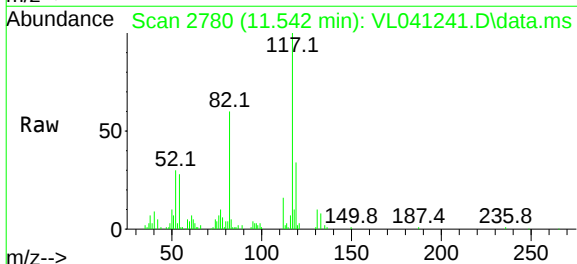
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.497 min Scan# 2766
Delta R.T. 0.009 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

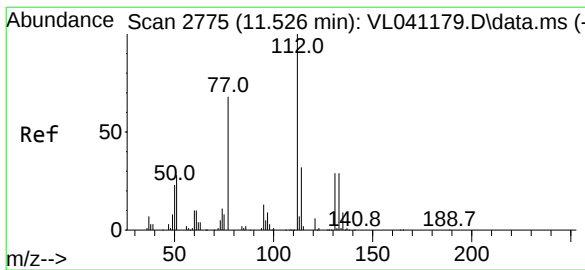
Tgt Ion:117 Resp: 1968339
Ion Ratio Lower Upper
117 100
82 66.1 53.6 80.4
119 33.4 27.2 40.8



#56
1,1,1,2-Tetrachloroethane
Concen: 0.093 ppbv m
RT: 11.542 min Scan# 2780
Delta R.T. 0.013 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

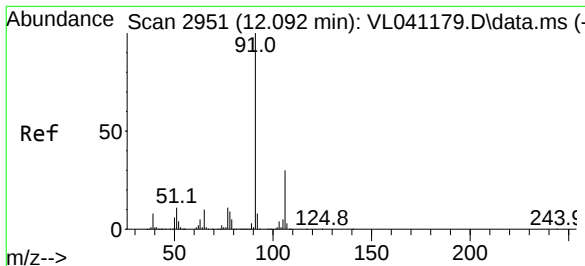
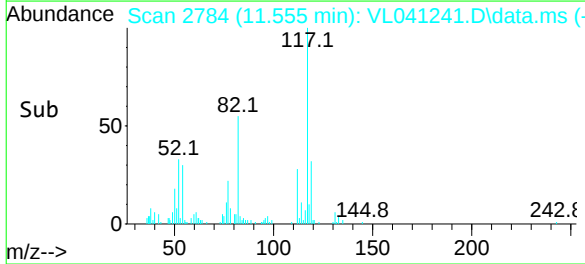
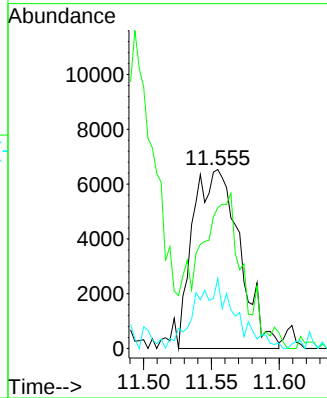
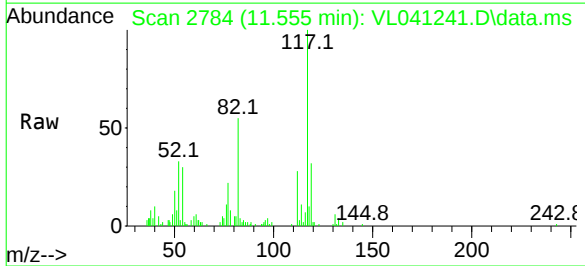
Tgt Ion:131 Resp: 7438
Ion Ratio Lower Upper
131 100
133 90.1 76.3 114.5
119 0.0 49.4 74.2#





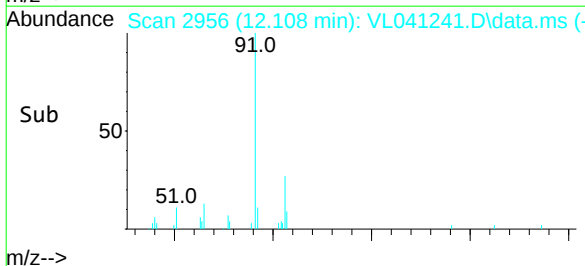
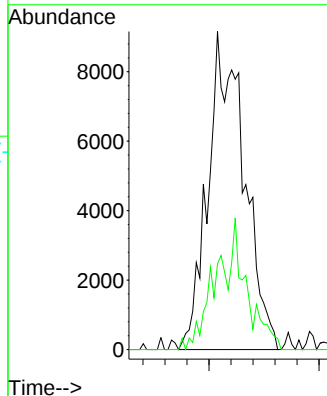
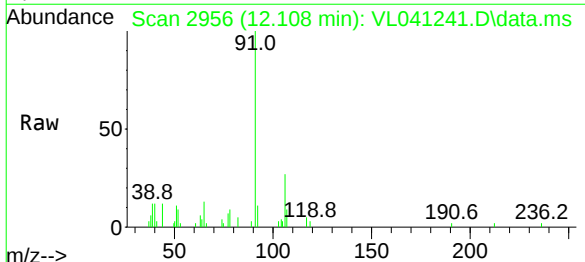
#57
Chlorobenzene
Concen: 0.108 ppbv m
RT: 11.555 min Scan# 2784
Delta R.T. 0.006 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

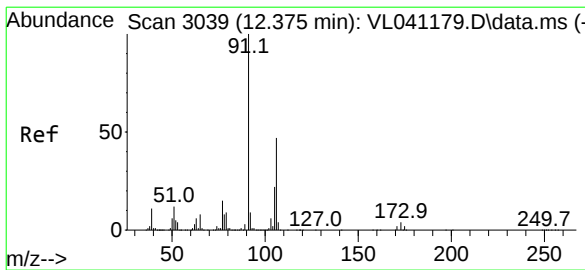
Tgt Ion	Ratio	Lower	Upper
112	100		
77	78.6	54.9	82.3
114	39.1	28.7	35.1#



#58
Ethyl Benzene
Concen: 0.077 ppbv m
RT: 12.108 min Scan# 2956
Delta R.T. -0.003 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

Tgt Ion	Ratio	Lower	Upper
91	100		
106	27.0	24.3	36.5





#59

m/p-Xylene

Concen: 0.164 ppbv m

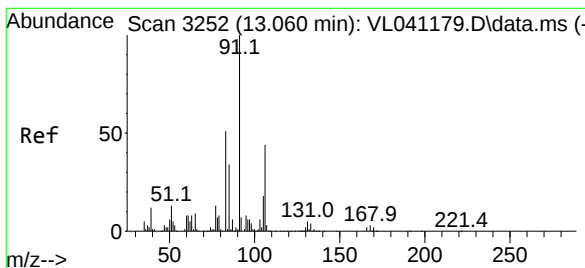
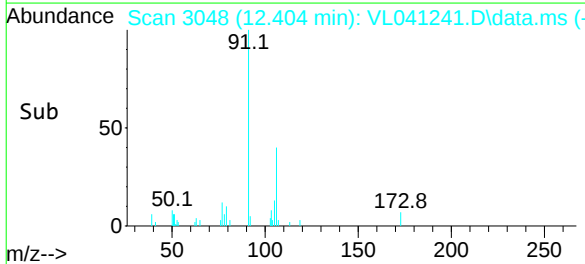
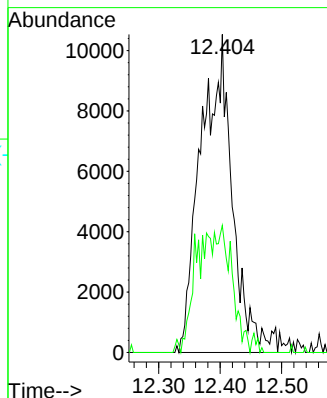
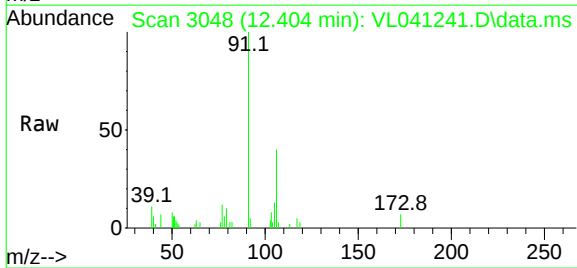
RT: 12.404 min Scan# 3048

Delta R.T. 0.013 min

Lab File: VL041241.D

Acq: 8 May 2024 13:13

Tgt Ion	Ratio	Lower	Upper
91	100		
106	45.3	35.7	53.5



#60

o-Xylene

Concen: 0.084 ppbv m

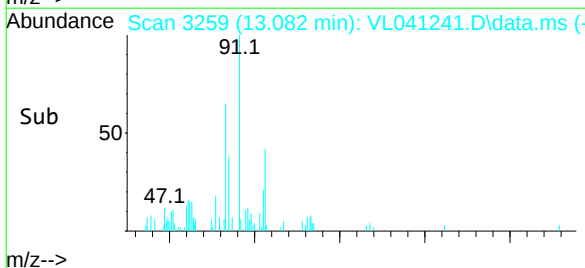
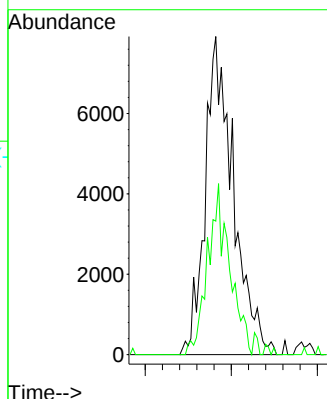
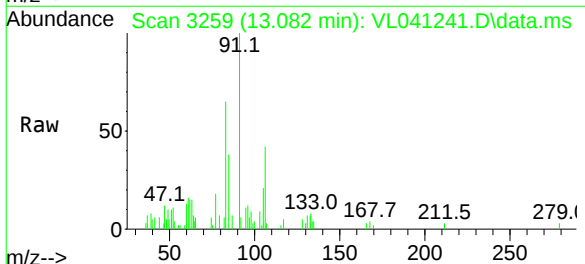
RT: 13.082 min Scan# 3259

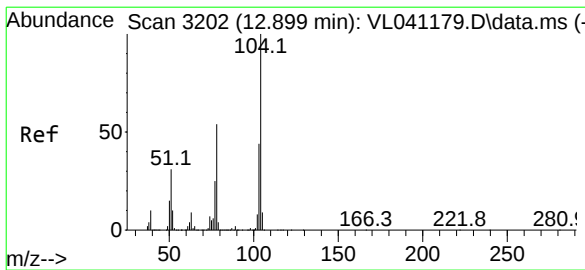
Delta R.T. 0.003 min

Lab File: VL041241.D

Acq: 8 May 2024 13:13

Tgt Ion	Ratio	Lower	Upper
91	100		
106	43.8	22.4	67.3





#61

Styrene

Concen: 0.071 ppbv m

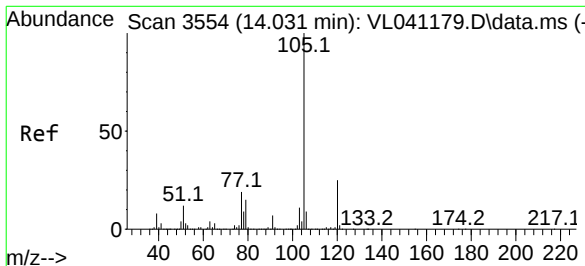
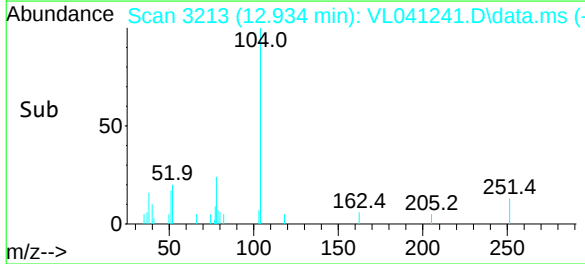
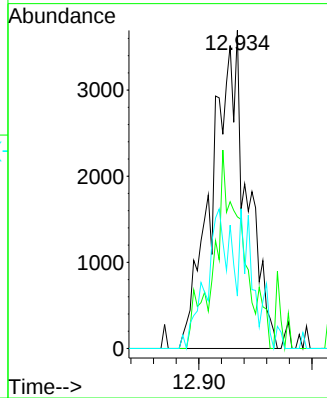
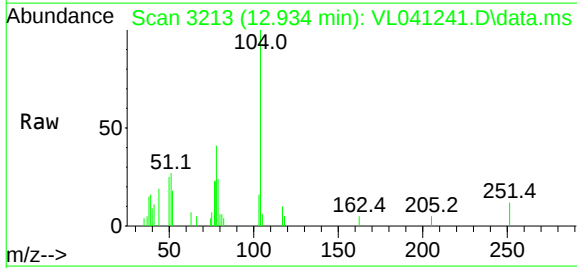
RT: 12.934 min Scan# 3213

Delta R.T. 0.016 min

Lab File: VL041241.D

Acq: 8 May 2024 13:13

Tgt Ion:	104	Resp:	7922
Ion	Ratio	Lower	Upper
104	100		
78	50.7	42.6	63.8
103	0.0	38.4	57.6#



#62

Isopropylbenzene

Concen: 0.090 ppbv m

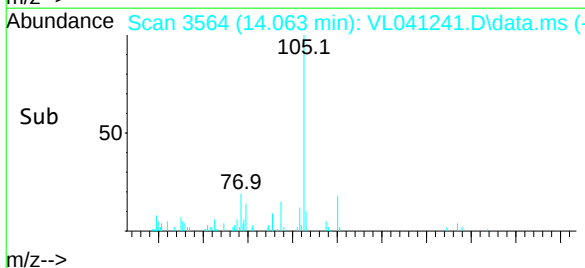
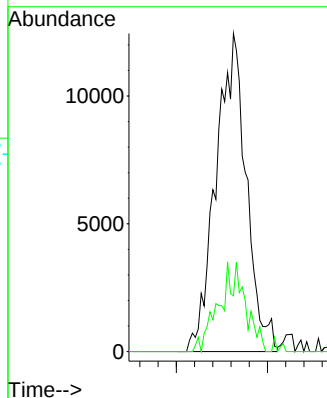
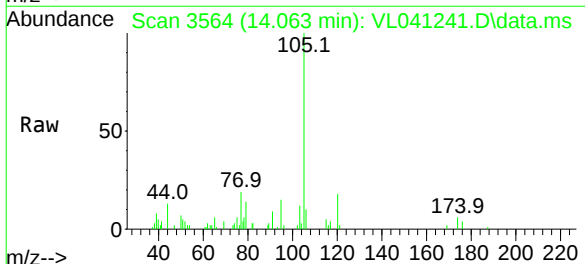
RT: 14.063 min Scan# 3564

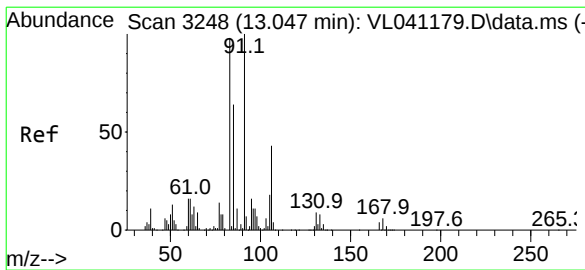
Delta R.T. 0.013 min

Lab File: VL041241.D

Acq: 8 May 2024 13:13

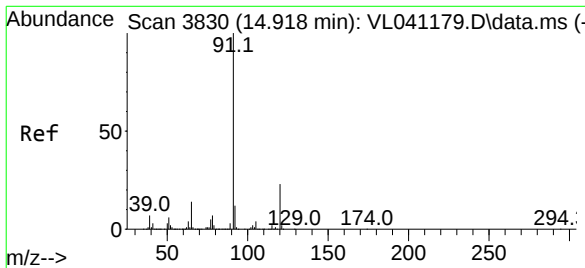
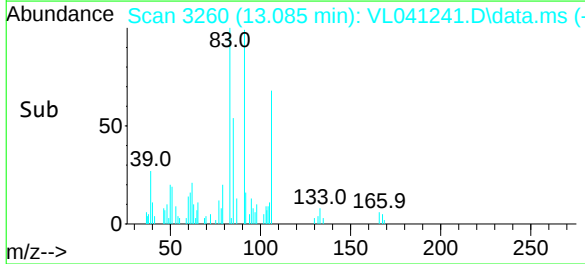
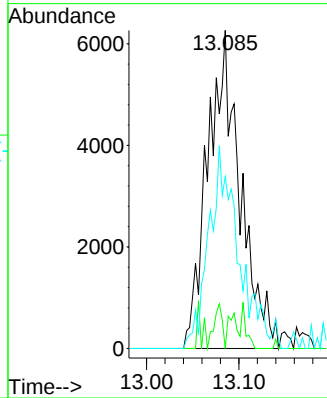
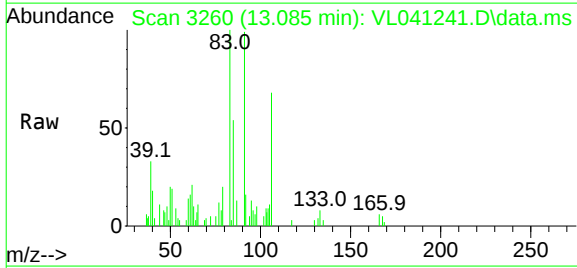
Tgt Ion:	105	Resp:	28751
Ion	Ratio	Lower	Upper
105	100		
120	0.0	20.2	30.2#





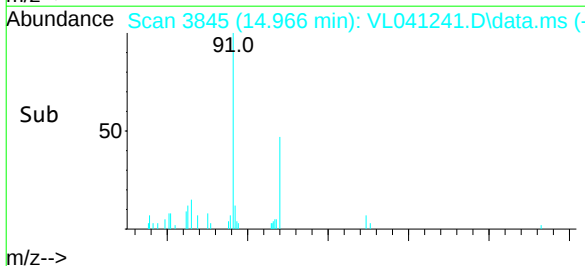
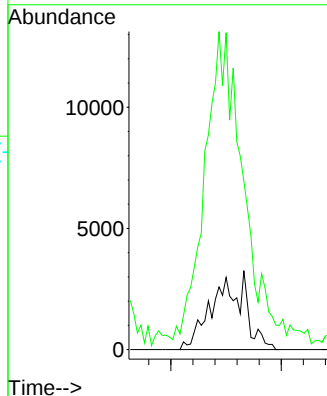
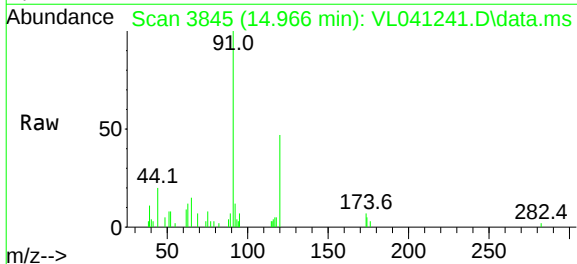
#63
1,1,2,2-Tetrachloroethane
Concen: 0.105 ppbv m
RT: 13.085 min Scan# 3260
Delta R.T. 0.019 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

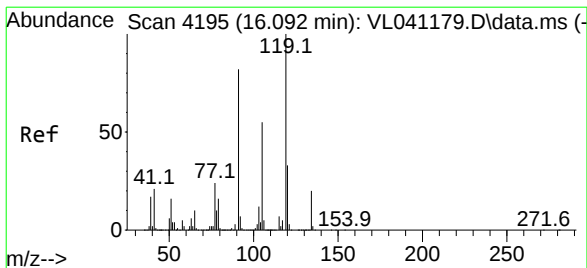
Tgt Ion	83	Resp	15258
Ion Ratio	Lower	Upper	
83	100		
131	0.0	4.5	13.5#
85	59.5	32.7	98.1



#64
n-propylbenzene
Concen: 0.083 ppbv m
RT: 14.966 min Scan# 3845
Delta R.T. 0.032 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

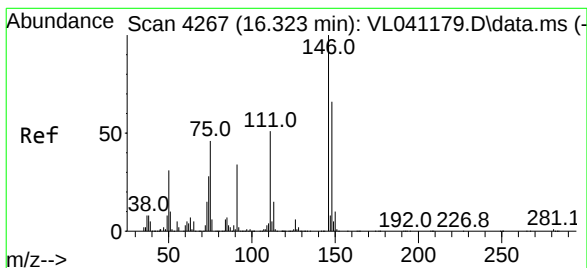
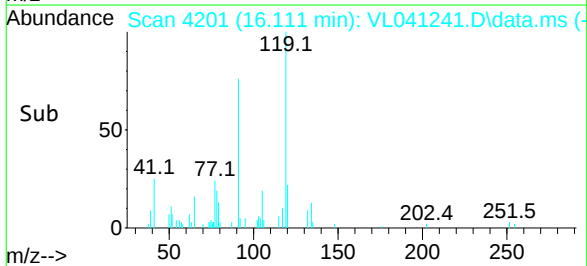
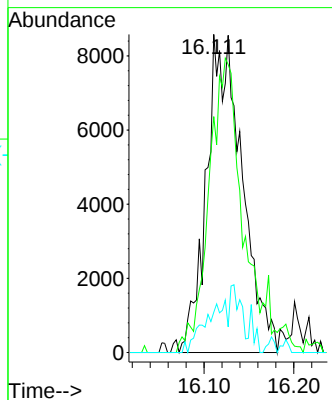
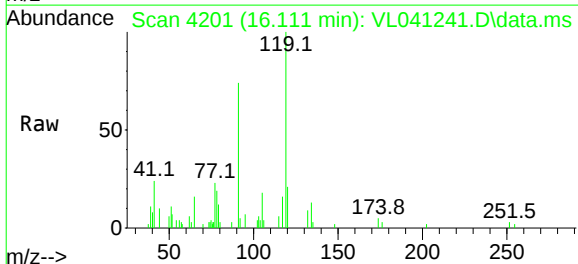
Tgt Ion	120	Resp	6597
Ion Ratio	Lower	Upper	
120	100		
91	53.1	384.8	577.2#





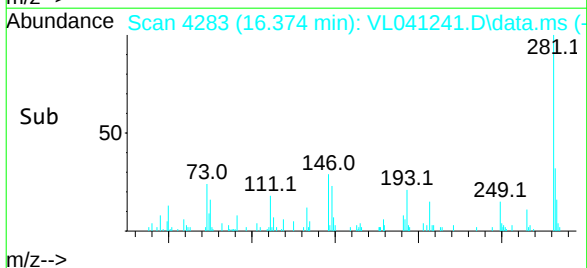
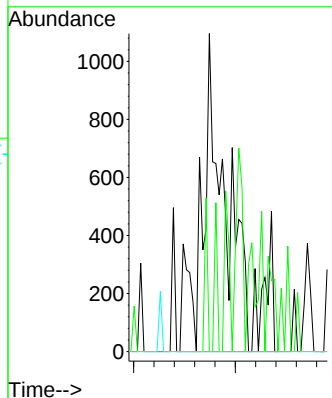
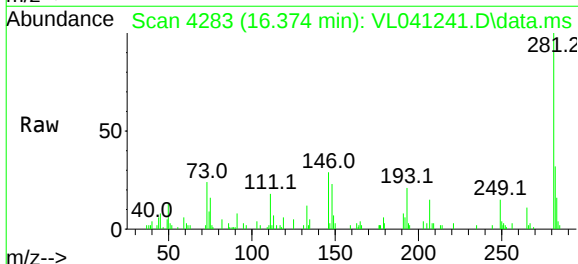
#65
tert-Butylbenzene
Concen: 0.083 ppbv m
RT: 16.111 min Scan# 4201
Delta R.T. 0.003 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

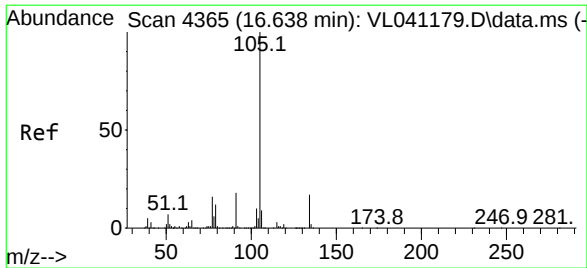
Tgt Ion	Ratio	Lower	Upper
119	100		
91	91.1	67.0	100.4
134	19.5	15.2	22.8



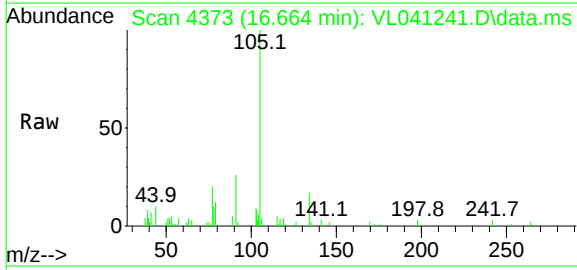
#66
Benzyl Chloride
Concen: 0.063 ppbv m
RT: 16.374 min Scan# 4283
Delta R.T. 0.026 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

Tgt Ion	Ratio	Lower	Upper
91	100		
126	0.0	14.6	21.8#
128	0.0	4.7	7.1#

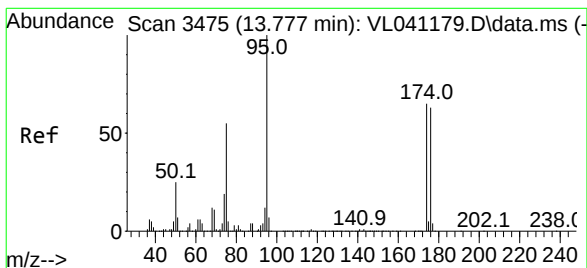
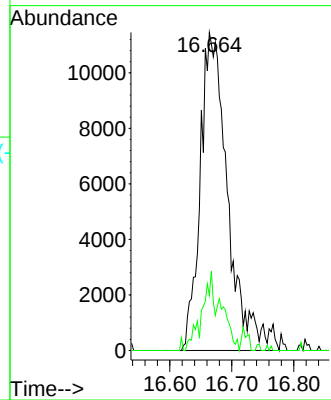
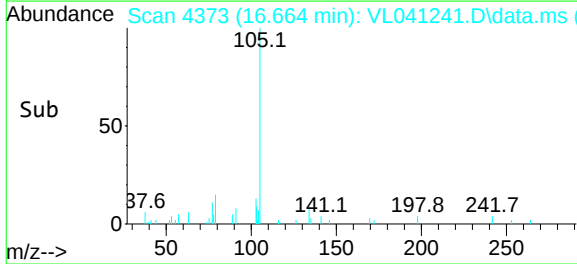




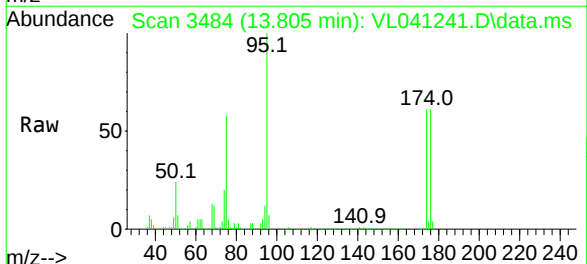
#67
sec-Butylbenzene
Concen: 0.088 ppbv m
RT: 16.664 min Scan# 4373
Delta R.T. 0.013 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13



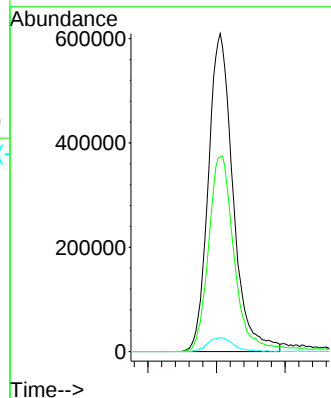
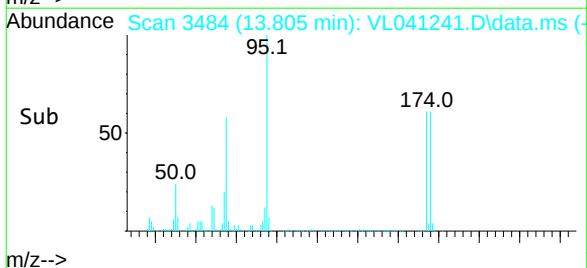
Tgt Ion:105 Resp: 35450
Ion Ratio Lower Upper
105 100
134 19.1 13.8 20.8

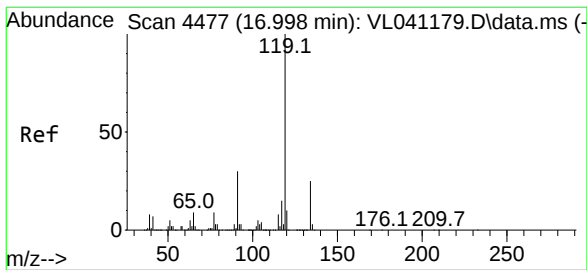


#68
1-Bromo-4-Fluorobenzene
Concen: 10.274 ppbv
RT: 13.805 min Scan# 3484
Delta R.T. 0.009 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13



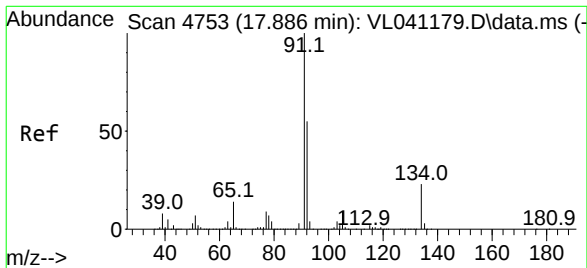
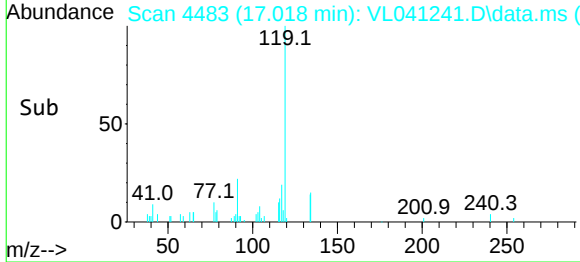
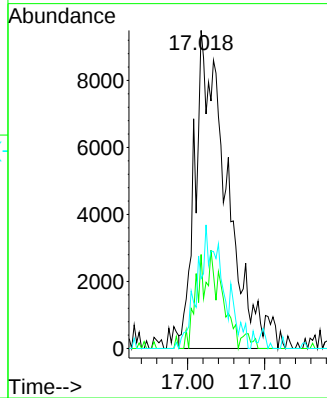
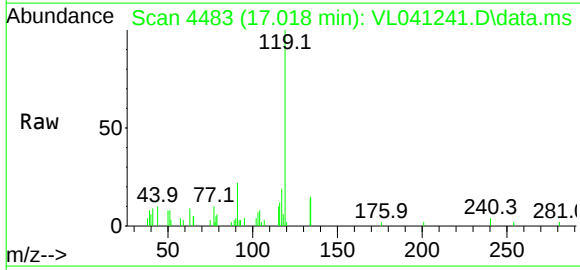
Tgt Ion: 95 Resp: 1526641
Ion Ratio Lower Upper
95 100
174 64.1 53.6 80.4
175 4.7 4.2 6.4





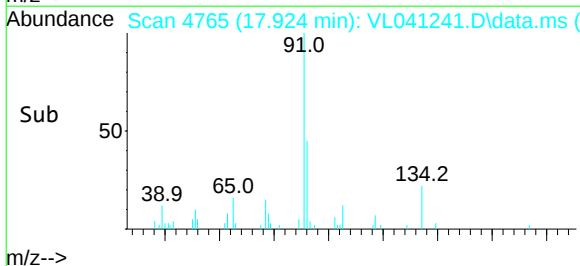
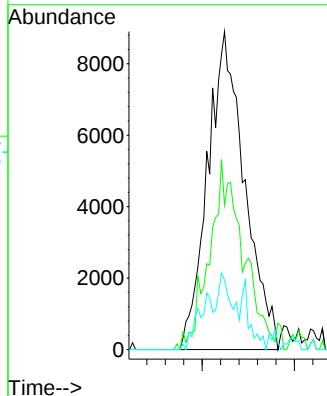
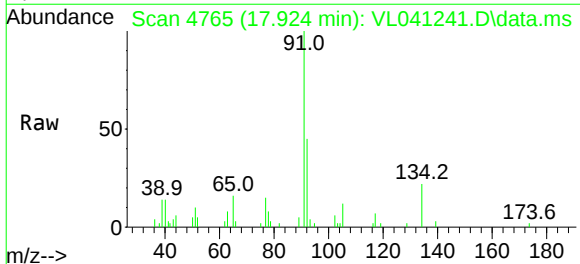
#69
p-Isopropyltoluene
Concen: 0.082 ppbv m
RT: 17.018 min Scan# 4483
Delta R.T. 0.003 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

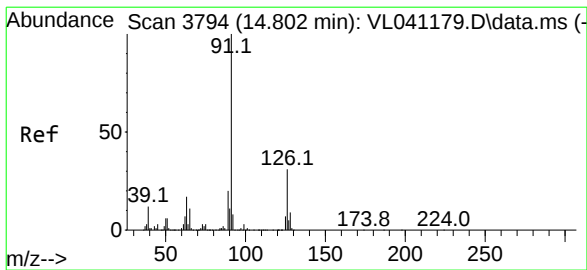
Tgt Ion	Ratio	Lower	Upper
119	100		
134	23.7	20.1	30.1
91	31.4	24.2	36.2



#70
n-Butylbenzene
Concen: 0.072 ppbv m
RT: 17.924 min Scan# 4765
Delta R.T. 0.019 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

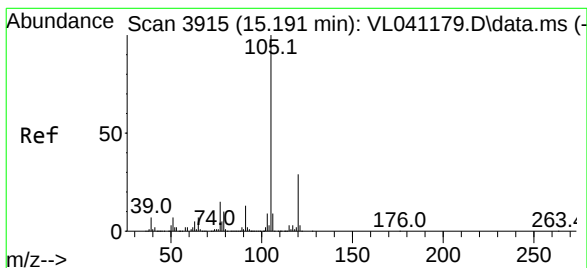
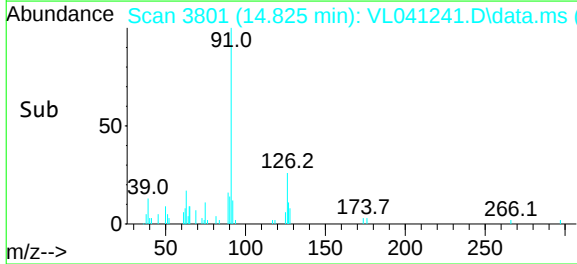
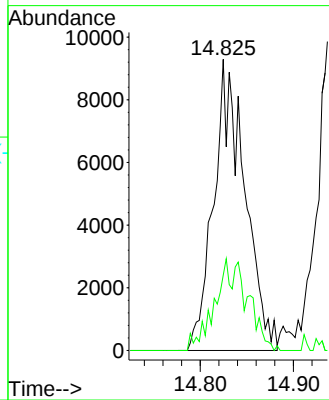
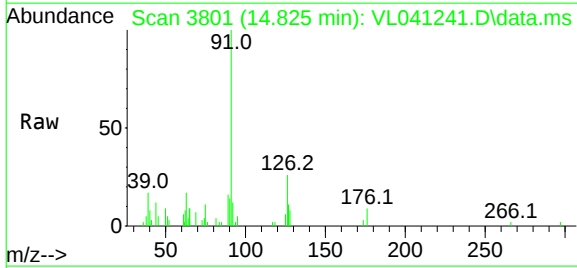
Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.0	43.3	64.9
134	21.8	17.8	26.8





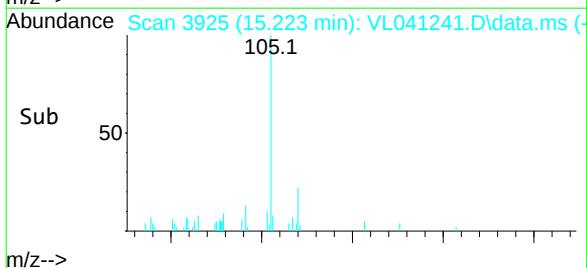
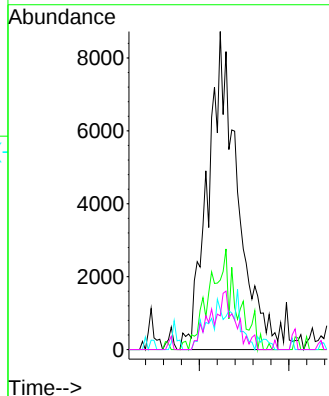
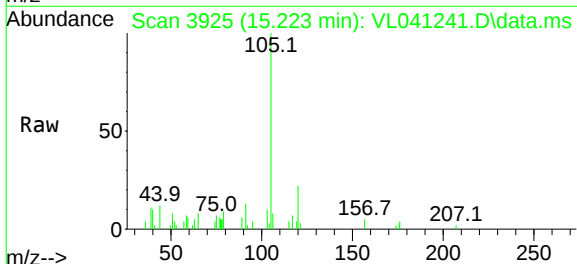
#71
2-Chlorotoluene
Concen: 0.089 ppbv m
RT: 14.825 min Scan# 3801
Delta R.T. 0.003 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

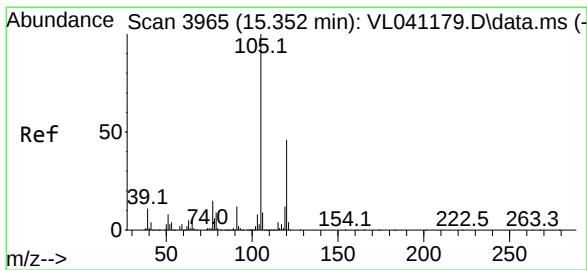
Tgt Ion: 91 Resp: 21520
Ion Ratio Lower Upper
91 100
126 33.0 12.2 48.8



#72
4-Ethyltoluene
Concen: 0.083 ppbv m
RT: 15.223 min Scan# 3925
Delta R.T. 0.013 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

Tgt Ion: 105 Resp: 20065
Ion Ratio Lower Upper
105 100
120 0.0 24.7 37.1#
91 0.0 10.3 15.5#
77 0.0 11.4 17.0#





#73

1,3,5-Trimethylbenzene

Concen: 0.081 ppbv m

RT: 15.384 min Scan# 3975

Delta R.T. 0.013 min

Lab File: VL041241.D

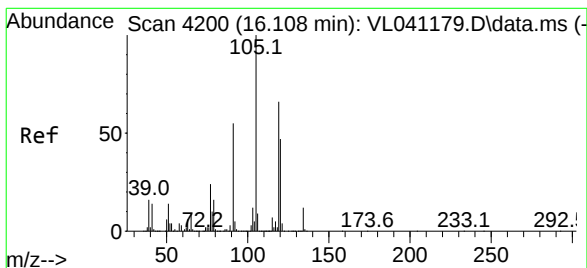
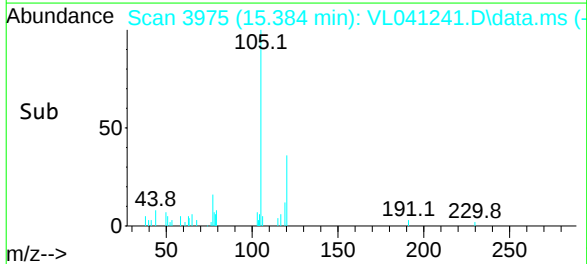
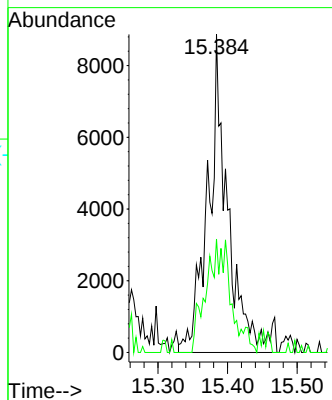
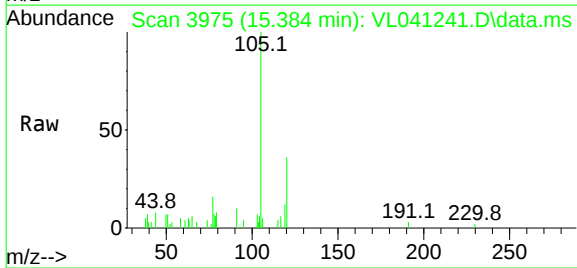
Acq: 8 May 2024 13:13

Tgt Ion:105 Resp: 17659

Ion Ratio Lower Upper

105 100

120 35.7 37.0 55.4#



#74

1,2,4-Trimethylbenzene

Concen: 0.078 ppbv m

RT: 16.137 min Scan# 4209

Delta R.T. 0.009 min

Lab File: VL041241.D

Acq: 8 May 2024 13:13

Tgt Ion:105 Resp: 18630

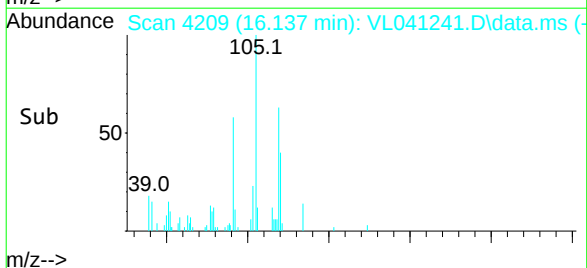
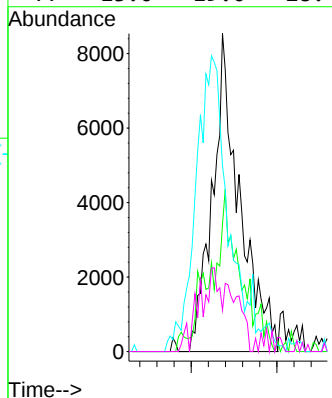
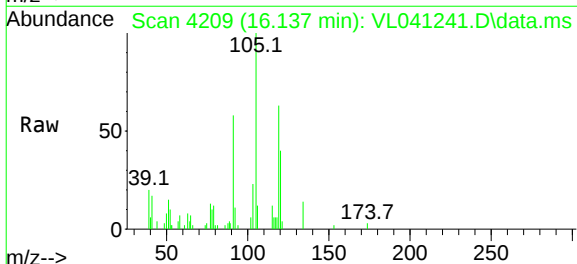
Ion Ratio Lower Upper

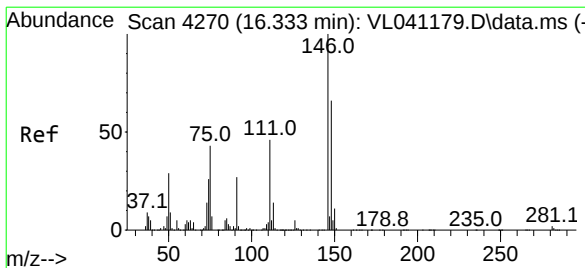
105 100

120 40.1 37.8 56.6

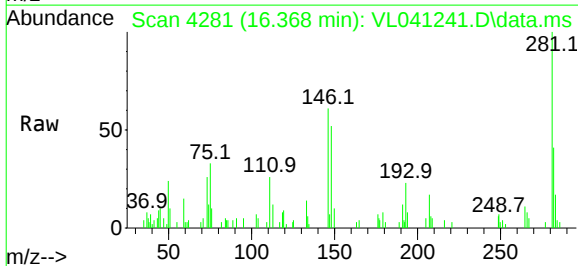
91 58.4 44.3 66.5

77 13.0 19.0 28.4#

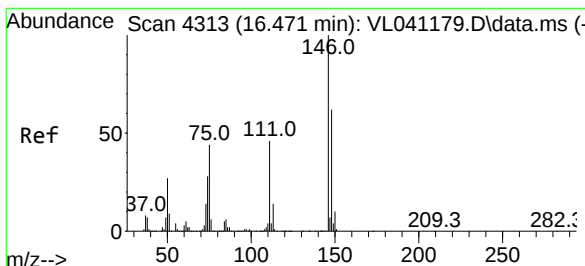
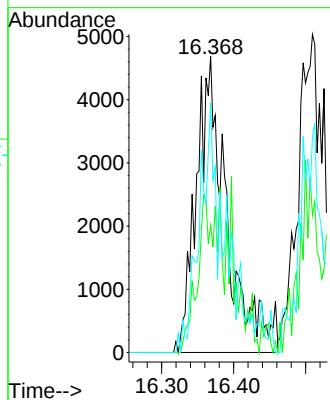
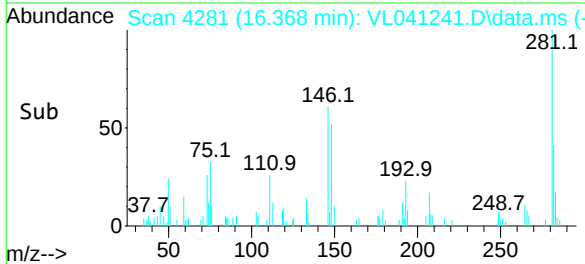




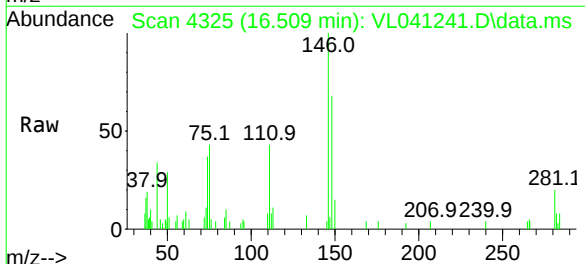
#75
1,3-Dichlorobenzene
Concen: 0.100 ppbv m
RT: 16.368 min Scan# 4281
Delta R.T. 0.019 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13



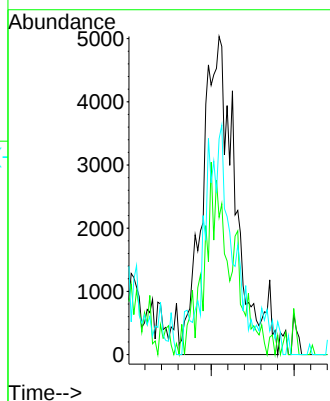
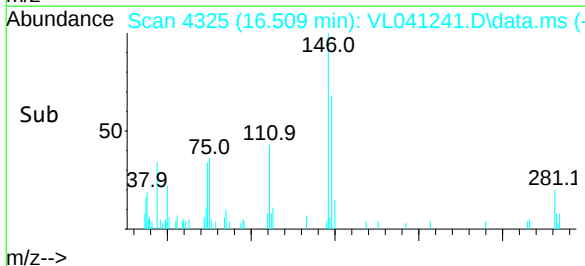
Tgt Ion:146 Resp: 13710
Ion Ratio Lower Upper
146 100
111 0.0 23.7 71.1#
148 72.2 32.5 97.4

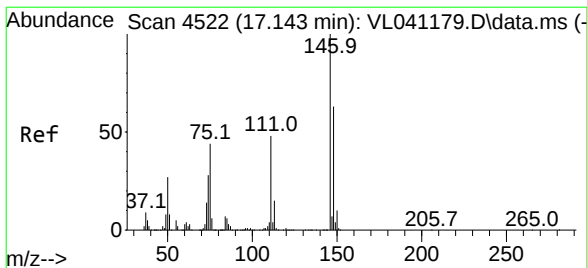


#76
1,4-Dichlorobenzene
Concen: 0.106 ppbv m
RT: 16.509 min Scan# 4325
Delta R.T. 0.016 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13



Tgt Ion:146 Resp: 13966
Ion Ratio Lower Upper
146 100
111 0.0 23.3 69.8#
148 66.4 32.6 97.7





#77

1,2-Dichlorobenzene

Concen: 0.094 ppbv m

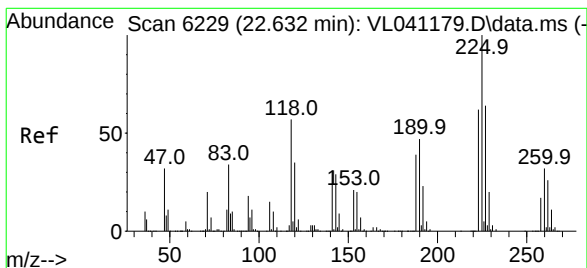
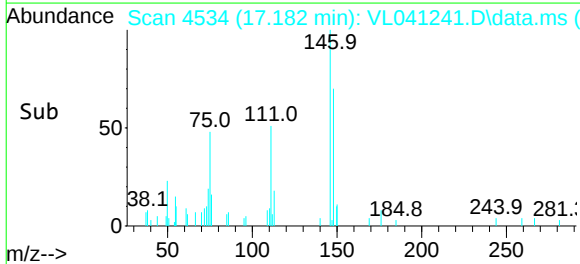
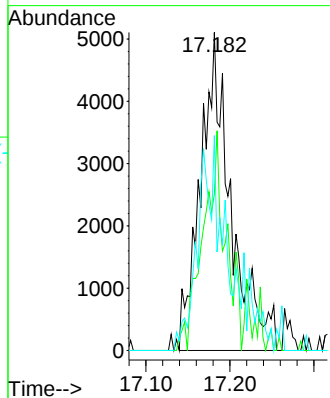
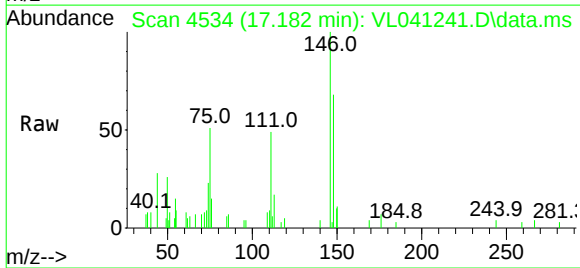
RT: 17.182 min Scan# 4534

Delta R.T. 0.019 min

Lab File: VL041241.D

Acq: 8 May 2024 13:13

Tgt	Ion:146	Resp:	12797
Ion	Ratio	Lower	Upper
146	100		
111	55.2	24.5	73.5
148	68.6	32.6	98.0



#78

Hexachloro-1,3-Butadiene

Concen: 0.106 ppbv m

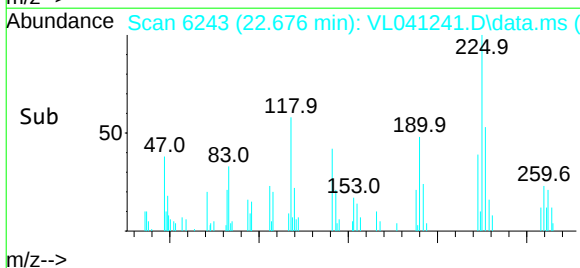
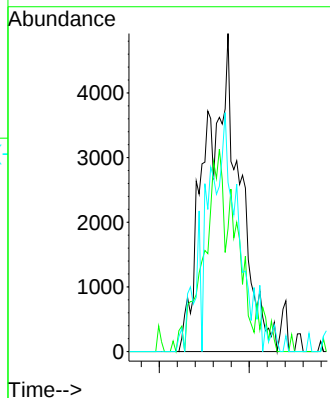
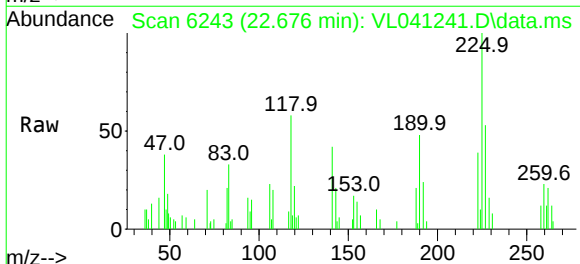
RT: 22.676 min Scan# 6243

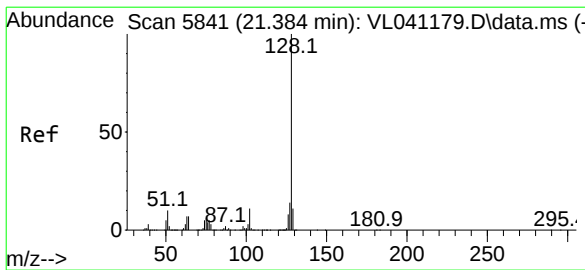
Delta R.T. 0.019 min

Lab File: VL041241.D

Acq: 8 May 2024 13:13

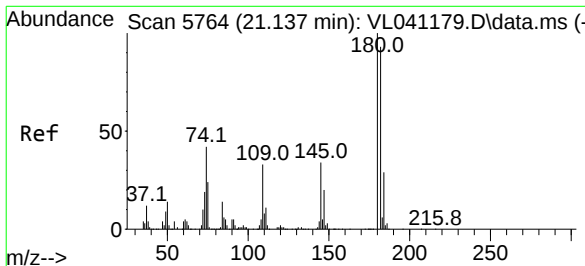
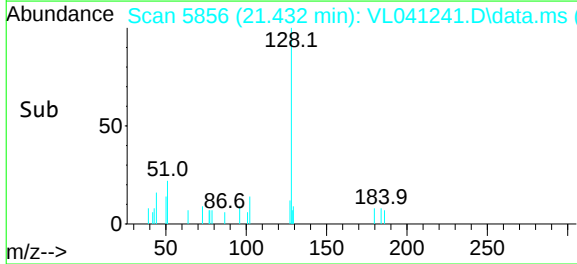
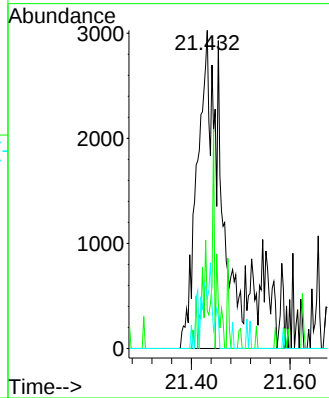
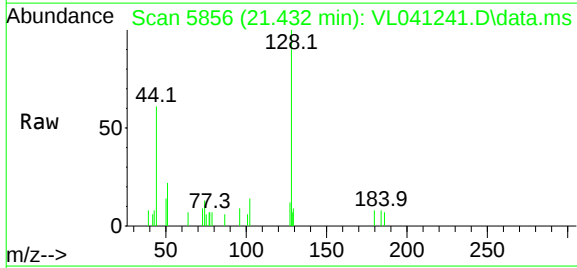
Tgt	Ion:225	Resp:	12863
Ion	Ratio	Lower	Upper
225	100		
223	0.0	50.9	76.3#
227	71.7	52.0	78.0





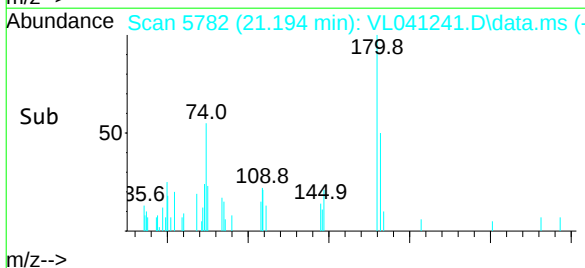
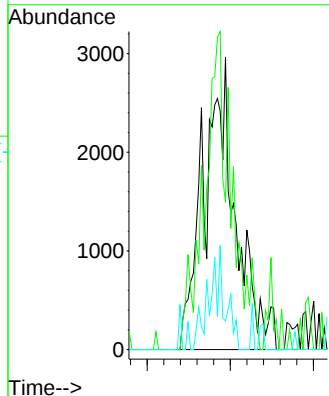
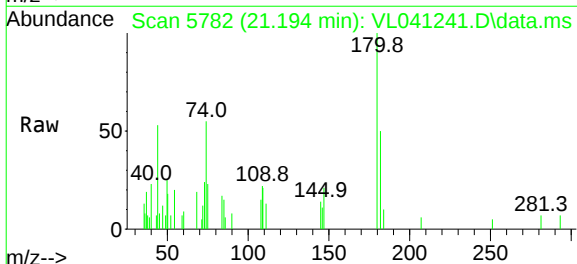
#79
Naphthalene
Concen: 0.053 ppbv m
RT: 21.432 min Scan# 5856
Delta R.T. 0.029 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

Tgt Ion	128	127	129
Ratio	100	11.8	9.1
Lower		10.8	8.9
Upper		16.2	13.3



#81
1,2,4-Trichlorobenzene
Concen: 0.066 ppbv m
RT: 21.194 min Scan# 5782
Delta R.T. 0.029 min
Lab File: VL041241.D
Acq: 8 May 2024 13:13

Tgt Ion	180	182	184
Ratio	100	92.6	17.7
Lower		77.2	24.6
Upper		115.8	36.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050824\
 Data File : VL041242.D
 Acq On : 8 May 2024 13:51
 Operator : SY/MD
 Sample : P2403-13 LOD 0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 09 05:33:48 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu May 09 02:43:03 2024
 Response via : Initial Calibration

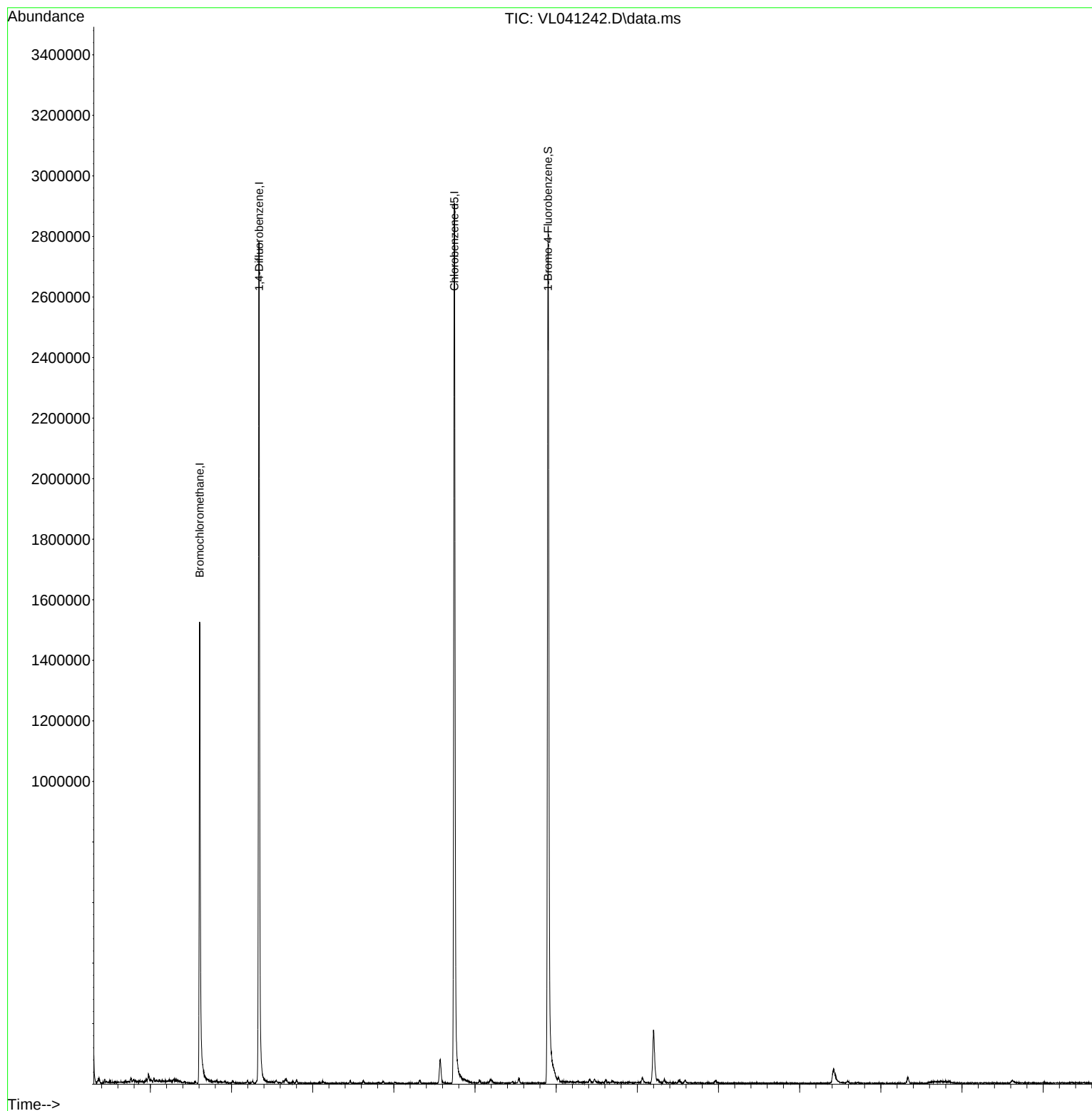
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

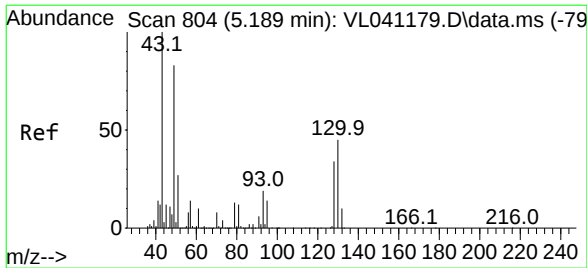
Internal Standards						
1) Bromochloromethane	5.214	49	813227	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.677	114	2157991	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.490	117	1941224	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.799	95	1482646	10.117	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.200%
Target Compounds						
					Qvalue	
32) 1,1,1-Trichloroethane	6.028	97	4582m	0.039	ppbv	
35) Carbon Tetrachloride	6.513	117	3861m	0.032	ppbv	
38) Trichloroethene	7.304	130	2574m	0.038	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.079	83	5443m	0.038	ppbv	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050824\
Data File : VL041242.D
Acq On : 8 May 2024 13:51
Operator : SY/MD
Sample : P2403-13 LOD 0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

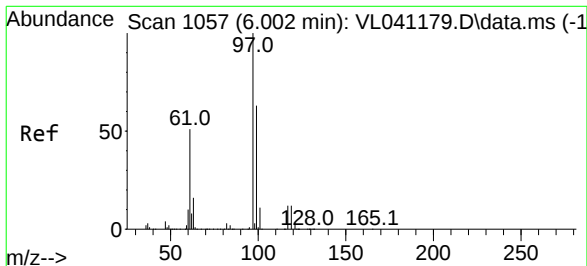
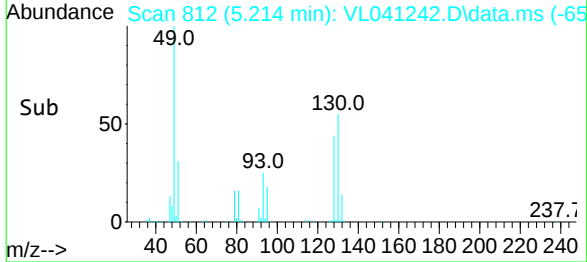
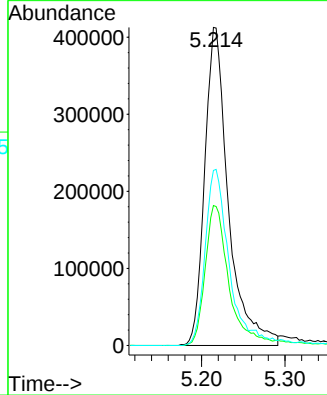
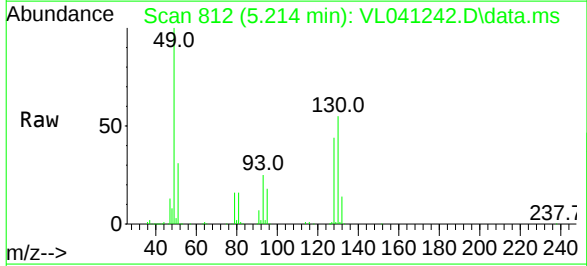
Quant Time: May 09 05:33:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu May 09 02:43:03 2024
Response via : Initial Calibration





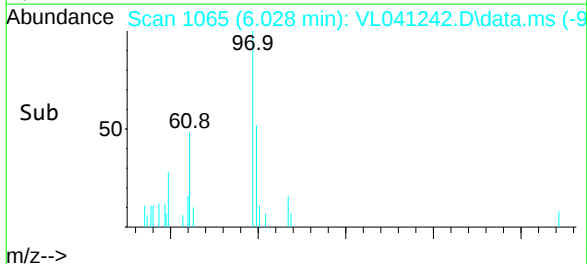
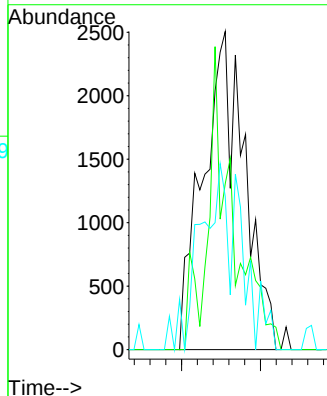
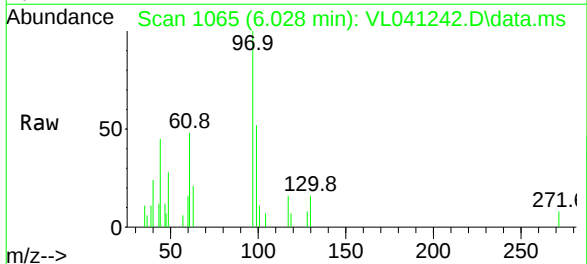
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.214 min Scan# 812
Delta R.T. 0.003 min
Lab File: VL041242.D
Acq: 8 May 2024 13:51

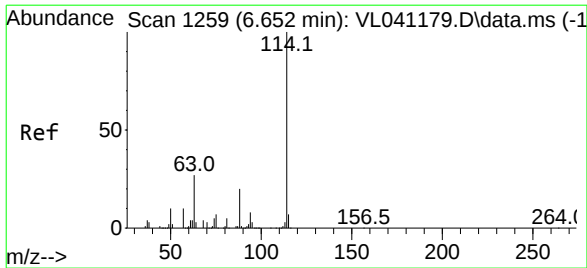
Tgt Ion: 49 Resp: 813227
Ion Ratio Lower Upper
49 100
128 46.2 21.5 64.5
130 58.8 27.2 81.6



#32
1,1,1-Trichloroethane
Concen: 0.039 ppbv m
RT: 6.028 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VL041242.D
Acq: 8 May 2024 13:51

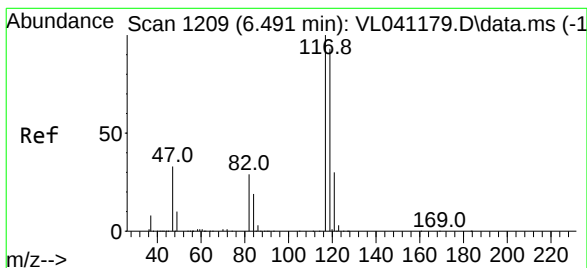
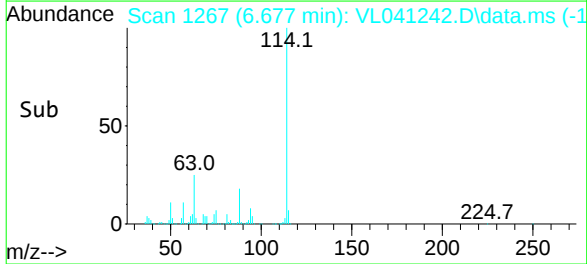
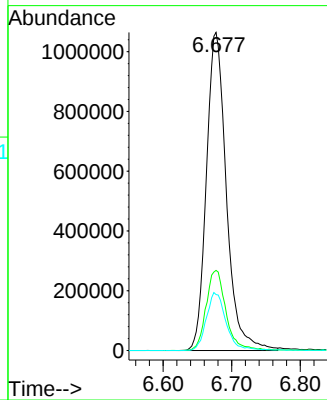
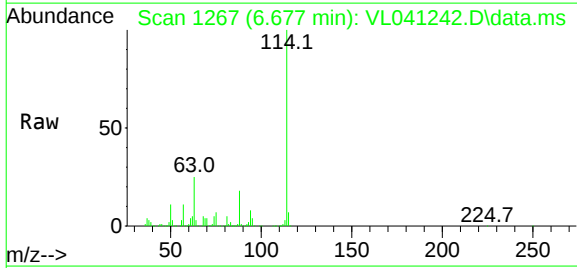
Tgt Ion: 97 Resp: 4582
Ion Ratio Lower Upper
97 100
99 57.0 51.7 77.5
61 57.4 41.1 61.7





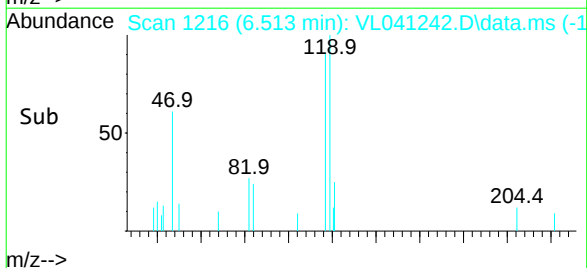
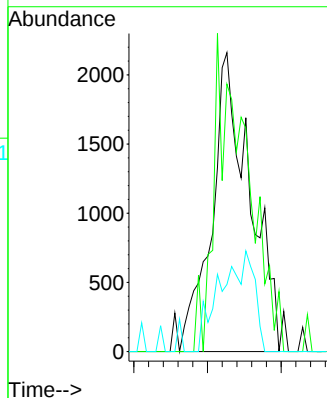
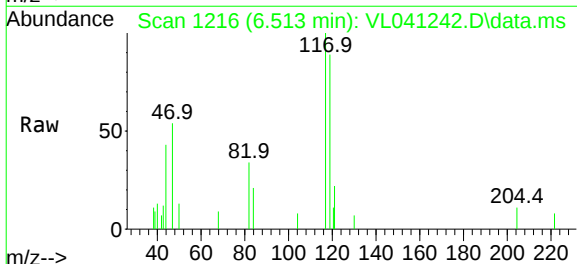
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.677 min Scan# 1267
Delta R.T. 0.003 min
Lab File: VL041242.D
Acq: 8 May 2024 13:51

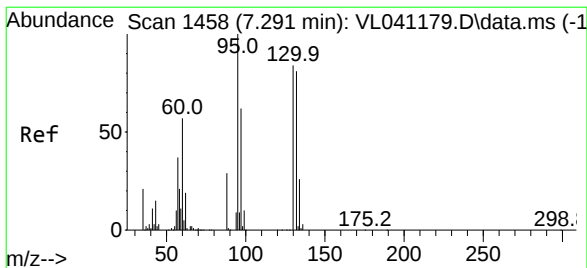
Tgt Ion	Ratio	Lower	Upper
114	100		
63	25.3	21.8	32.6
88	18.1	15.2	22.8



#35
Carbon Tetrachloride
Concen: 0.032 ppbv m
RT: 6.513 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VL041242.D
Acq: 8 May 2024 13:51

Tgt Ion	Ratio	Lower	Upper
117	100		
119	89.4	74.3	111.5
121	22.4	23.8	35.8#





#38

Trichloroethene

Concen: 0.038 ppbv m

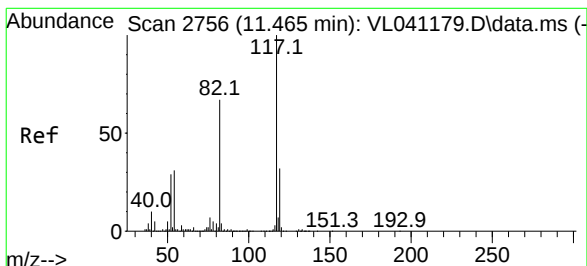
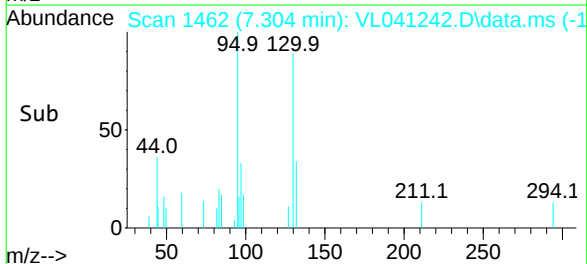
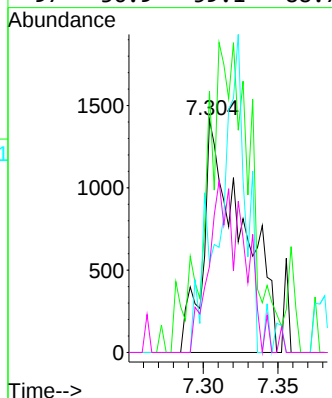
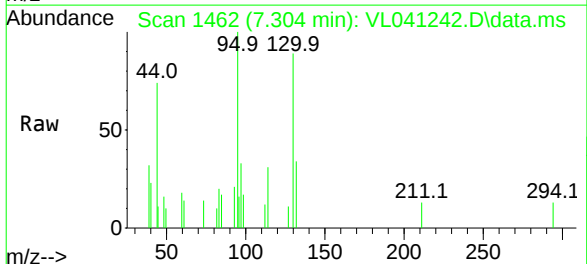
RT: 7.304 min Scan# 1462

Delta R.T. -0.007 min

Lab File: VL041242.D

Acq: 8 May 2024 13:51

Tgt	Ion:130	Resp:	2574
Ion	Ratio	Lower	Upper
130	100		
95	112.1	95.0	142.6
132	38.4	77.0	115.4#
97	36.9	59.1	88.7#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

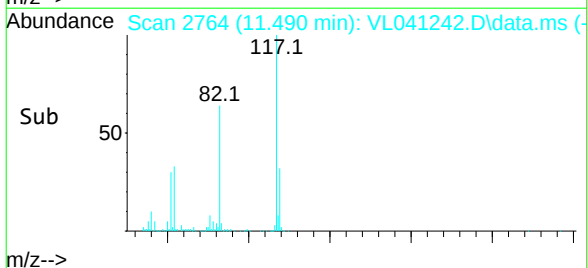
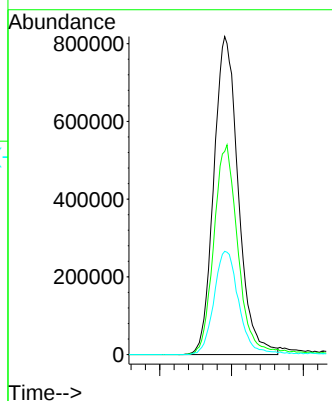
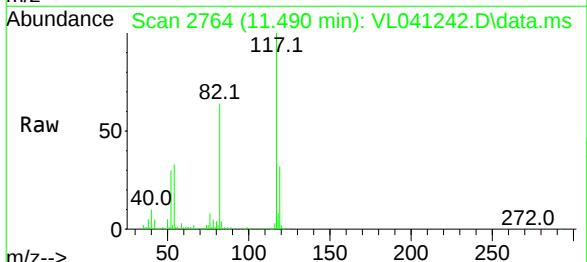
RT: 11.490 min Scan# 2764

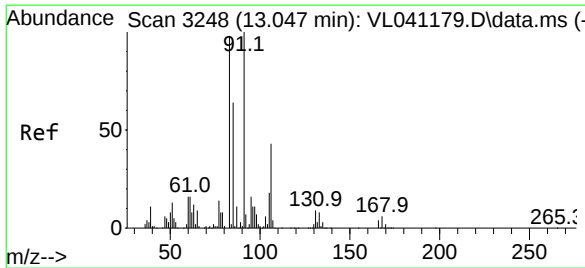
Delta R.T. 0.003 min

Lab File: VL041242.D

Acq: 8 May 2024 13:51

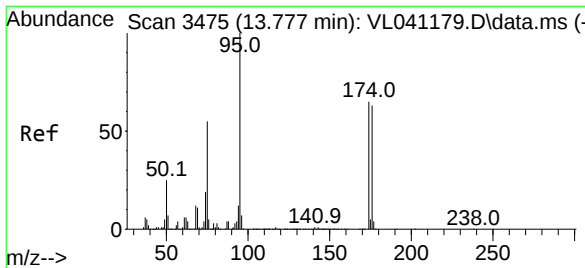
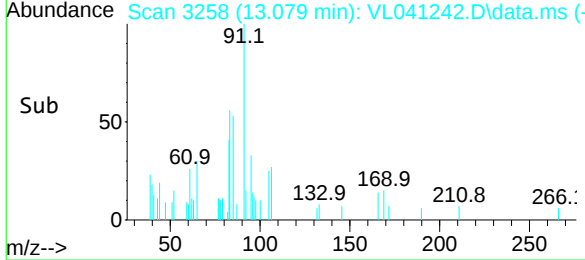
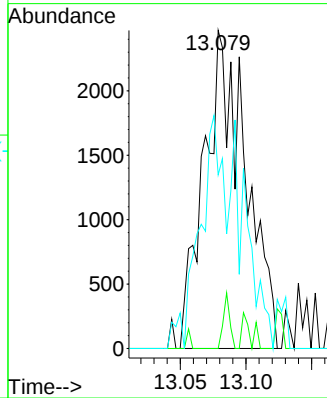
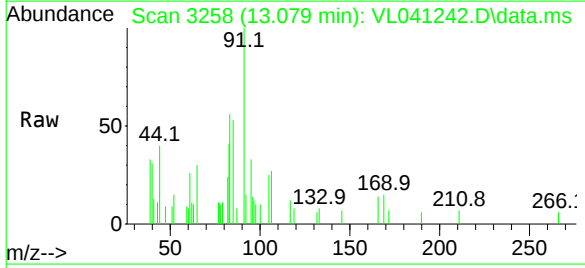
Tgt	Ion:117	Resp:	1941224
Ion	Ratio	Lower	Upper
117	100		
82	66.5	53.6	80.4
119	33.2	27.2	40.8





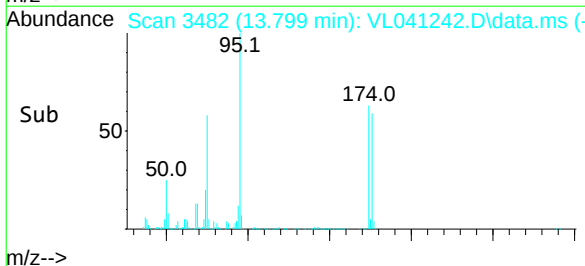
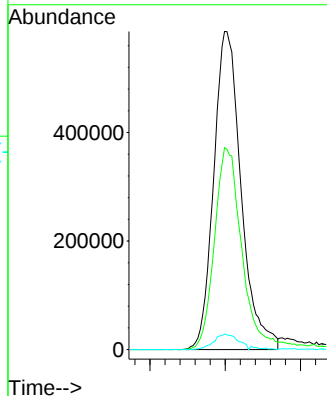
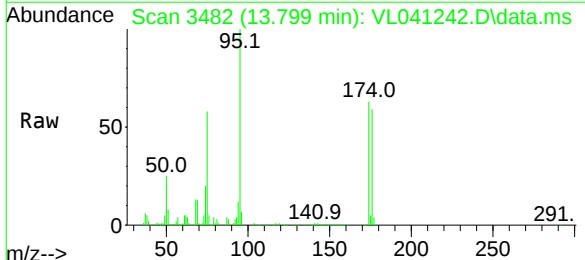
#63
1,1,2,2-Tetrachloroethane
Concen: 0.038 ppbv m
RT: 13.079 min Scan# 3258
Delta R.T. 0.013 min
Lab File: VL041242.D
Acq: 8 May 2024 13:51

Tgt Ion	83	Resp	5443
Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.5	13.5#
85	0.0	32.7	98.1#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.117 ppbv
RT: 13.799 min Scan# 3482
Delta R.T. 0.003 min
Lab File: VL041242.D
Acq: 8 May 2024 13:51

Tgt Ion	95	Resp	1482646
Ion	Ratio	Lower	Upper
95	100		
174	65.9	53.6	80.4
175	4.7	4.2	6.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050924\
 Data File : VL041253.D
 Acq On : 9 May 2024 11:28
 Operator : SY/MD
 Sample : P2403-15 MDL 0.45
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 10 01:25:25 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

QLast Update : Fri May 10 01:23:08 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.208	49	752281	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.668	114	2045422	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.478	117	1886193	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.790	95	1463725	10.279	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.800%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.745	85	72124	0.709	ppbv	98
3) Chlorodifluoromethane	2.694	51	61346	0.537	ppbv	95
4) Chloromethane	2.832	50	23221	0.518	ppbv	99
5) Vinyl Chloride	2.935	62	22610	0.502	ppbv	93
6) Bromomethane	3.140	94	9192	0.559	ppbv	88
7) Chloroethane	3.211	64	8322	0.523	ppbv #	85
8) Dichlorotetrafluoroethane	2.874	85	56178	0.533	ppbv	95
9) Propene	2.713	41	21366	0.478	ppbv	94
10) Heptane	7.597	43	48672m	0.449	ppbv	
11) Trichlorofluoromethane	3.581	101	56996	0.551	ppbv	84
12) 1,1,2-Trichlorotrifluo...	4.079	101	43789m	0.573	ppbv	
13) Ethanol	3.279	45	4595m	0.458	ppbv	
14) Bromoethene	3.382	108	15148	0.480	ppbv #	90
15) Acetone	3.504	43	55018	0.620	ppbv	98
16) 1,3-Butadiene	3.002	39	22338	0.498	ppbv	97
17) tert-Butyl alcohol	3.909	59	39955m	0.417	ppbv	
18) 1,1-Dichloroethene	3.893	96	16825m	0.493	ppbv	
19) Isopropyl Alcohol	3.610	45	25816m	0.443	ppbv	
20) Methylene Chloride	3.951	84	18634m	0.604	ppbv	
21) Allyl Chloride	4.015	41	28206	0.487	ppbv	90
22) trans-1,2-Dichloroethene	4.462	96	19241m	0.543	ppbv	
23) Vinyl Acetate	4.648	43	39227m	0.401	ppbv	
24) 1,1-Dichloroethane	4.574	63	38181	0.502	ppbv #	97
25) Ethyl Acetate	5.230	43	82564	0.466	ppbv #	97
26) Hexane	5.230	57	36471	0.461	ppbv	97
27) Carbon Disulfide	4.140	76	42317	0.452	ppbv #	90
28) Methyl tert-Butyl Ether	4.610	73	29014m	0.461	ppbv	
29) Chloroform	5.292	83	62206m	0.570	ppbv	
30) Cyclohexane	6.626	84	34858m	0.557	ppbv	
31) cis-1,2-Dichloroethene	5.099	61	36333m	0.491	ppbv	
32) 1,1,1-Trichloroethane	6.015	97	56268	0.517	ppbv	96
34) 2-Butanone	4.816	43	52686m	0.506	ppbv	
35) Carbon Tetrachloride	6.507	117	55837	0.486	ppbv	96
36) Benzene	6.385	78	79335m	0.462	ppbv	
37) 1,2-Dichloroethane	5.822	62	42318	0.473	ppbv #	94
38) Trichloroethene	7.304	130	30807	0.482	ppbv	90
39) 1,2-Dichloropropane	7.082	63	30747	0.465	ppbv	94
40) 1,4-Dioxane	7.346	88	9601m	0.406	ppbv	
41) Tetrahydrofuran	5.600	42	32056m	0.425	ppbv	
42) Bromodichloromethane	7.266	83	60129	0.468	ppbv	98
43) Methyl Methacrylate	7.494	69	29069	0.419	ppbv	97
44) 2,2,4-Trimethylpentane	7.340	57	130808	0.442	ppbv	97
45) t-1,3-Dichloropropene	8.722	75	17562m	0.349	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050924\
 Data File : VL041253.D
 Acq On : 9 May 2024 11:28
 Operator : SY/MD
 Sample : P2403-15 MDL 0.45
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 10 01:25:25 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

QLast Update : Fri May 10 01:23:08 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.156	75	24346m	0.395	ppbv	
47) 1,1,2-Trichloroethane	8.912	97	32652m	0.493	ppbv	
48) Dibromochloromethane	9.725	129	47783m	0.453	ppbv	
49) Bromoform	12.420	173	35552	0.396	ppbv	98
50) 4-Methyl-2-Pentanone	8.214	43	76006m	0.407	ppbv	
51) 2-Hexanone	9.590	43	53820m	0.388	ppbv	
52) Tetrachloroethene	10.626	164	28734	0.476	ppbv	89
53) Toluene	9.233	91	83929m	0.422	ppbv	
54) 1,2-Dibromoethane	10.024	107	39065	0.436	ppbv	91
56) 1,1,1,2-Tetrachloroethane	11.520	131	37481	0.490	ppbv #	1
57) Chlorobenzene	11.539	112	72022	0.521	ppbv	93
58) Ethyl Benzene	12.105	91	114105	0.441	ppbv	93
59) m/p-Xylene	12.359	91	198635m	0.914	ppbv	
60) o-Xylene	13.069	91	96953	0.476	ppbv	98
61) Styrene	12.918	104	42293m	0.393	ppbv	
62) Isopropylbenzene	14.044	105	144680	0.475	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.060	83	72281m	0.520	ppbv	
64) n-propylbenzene	14.925	120	35177	0.463	ppbv	85
65) tert-Butylbenzene	16.108	119	126861	0.465	ppbv	94
66) Benzyl Chloride	16.346	91	6474m	0.210	ppbv	
67) sec-Butylbenzene	16.651	105	180409	0.469	ppbv	98
69) p-Isopropyltoluene	17.011	119	144802m	0.457	ppbv	
70) n-Butylbenzene	17.902	91	143240	0.433	ppbv	100
71) 2-Chlorotoluene	14.812	91	109816	0.473	ppbv	99
72) 4-Ethyltoluene	15.201	105	105411m	0.457	ppbv	
73) 1,3,5-Trimethylbenzene	15.362	105	98069m	0.470	ppbv	
74) 1,2,4-Trimethylbenzene	16.121	105	106129m	0.465	ppbv	
75) 1,3-Dichlorobenzene	16.349	146	63419m	0.485	ppbv	
76) 1,4-Dichlorobenzene	16.487	146	59423	0.472	ppbv	91
77) 1,2-Dichlorobenzene	17.159	146	64504m	0.493	ppbv	
78) Hexachloro-1,3-Butadiene	22.645	225	55367m	0.477	ppbv	
79) Naphthalene	21.410	128	65976m	0.304	ppbv	
80) Naphthalene,2-methyl-	24.493	142	11472m	0.131	ppbv	
81) 1,2,4-Trichlorobenzene	21.162	180	38423m	0.335	ppbv	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050924\
Data File : VL041253.D
Acq On : 9 May 2024 11:28
Operator : SY/MD
Sample : P2403-15 MDL 0.45
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

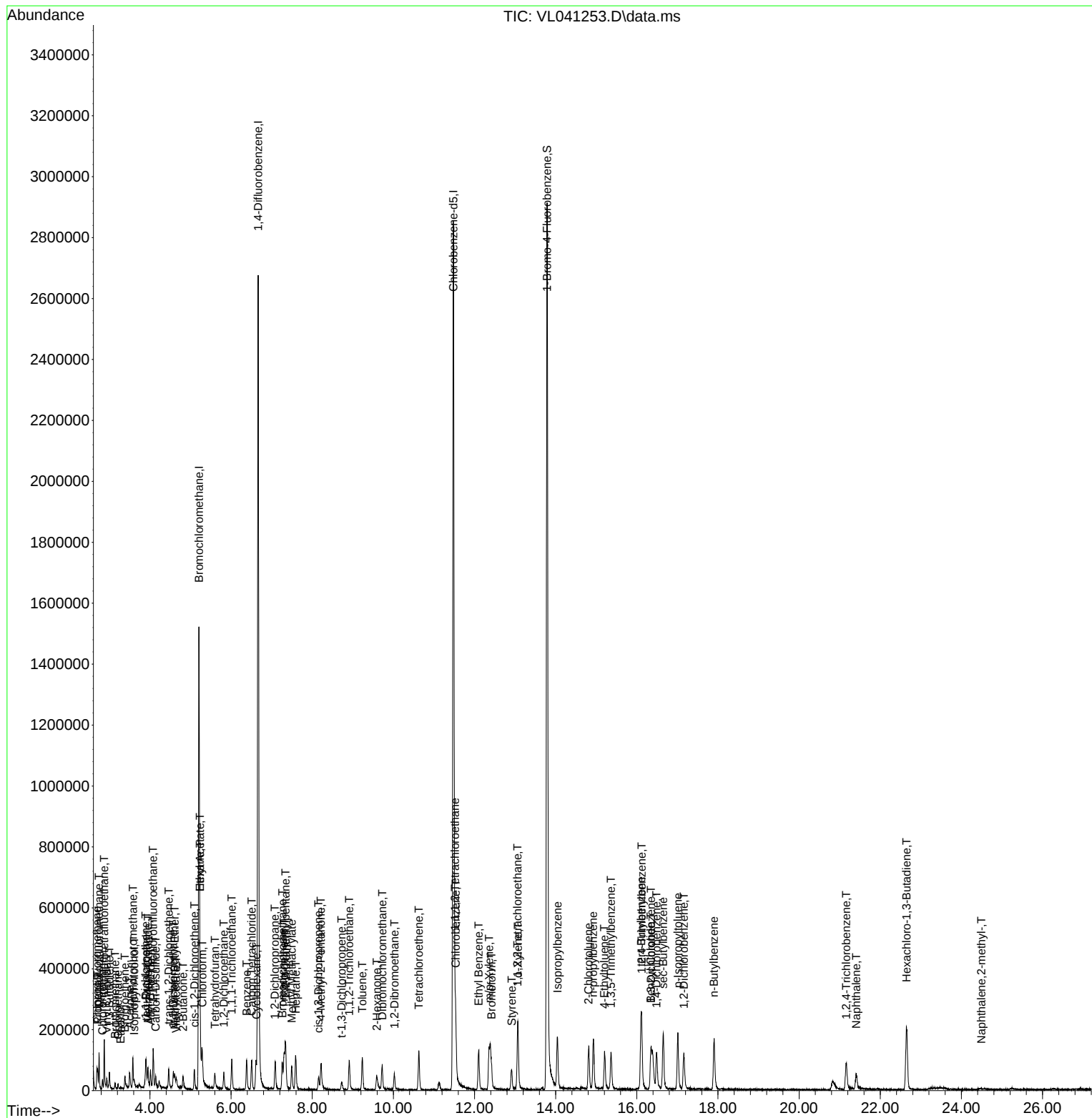
Quant Time: May 10 01:25:25 2024

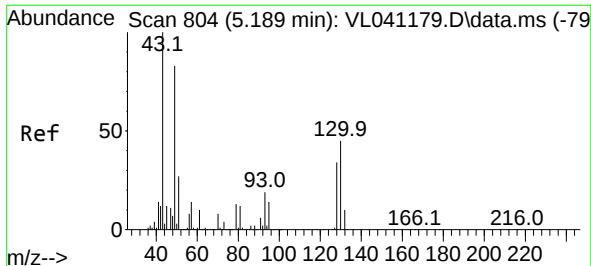
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

QLast Update : Fri May 10 01:23:08 2024

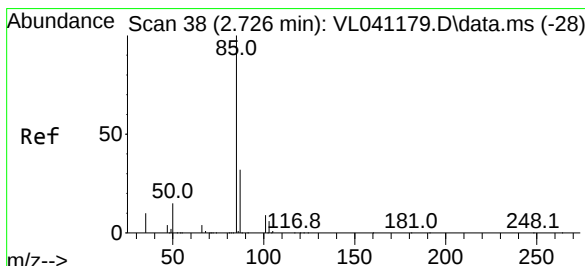
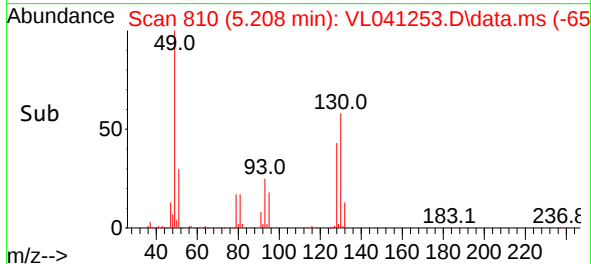
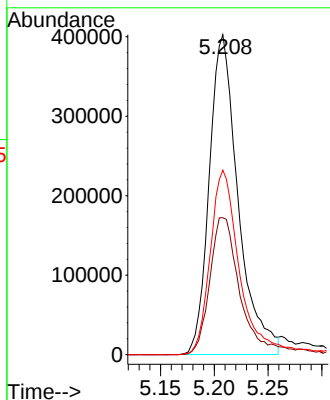
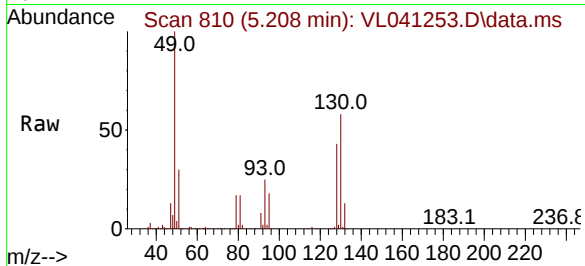
Response via : Initial Calibration





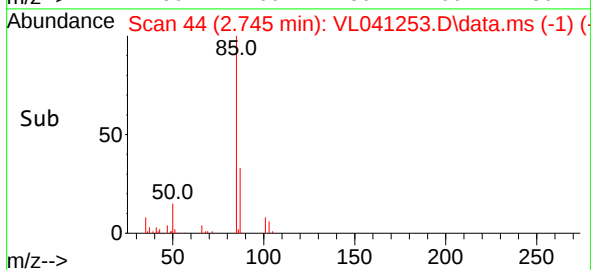
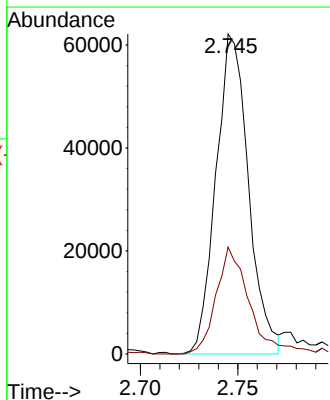
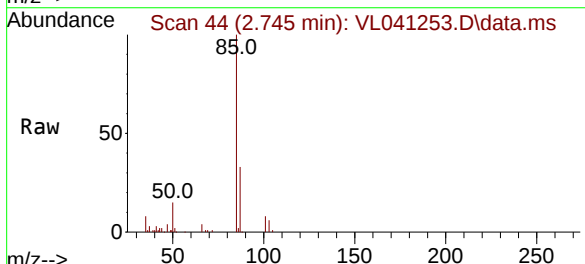
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.208 min Scan# 810
Delta R.T. 0.003 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

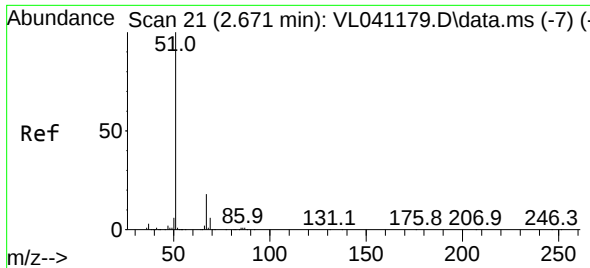
Tgt Ion: 49 Resp: 752281
Ion Ratio Lower Upper
49 100
128 46.9 21.5 64.5
130 61.5 27.2 81.6



#2
Dichlorodifluoromethane
Concen: 0.709 ppbv
RT: 2.745 min Scan# 44
Delta R.T. 0.000 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

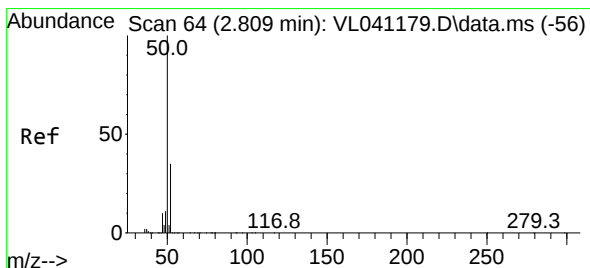
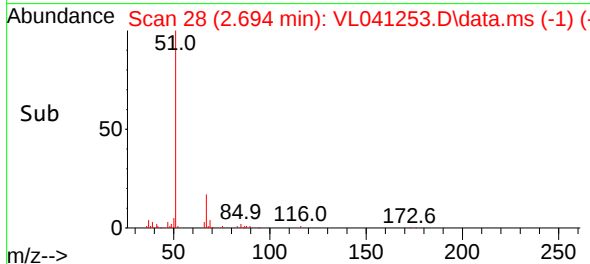
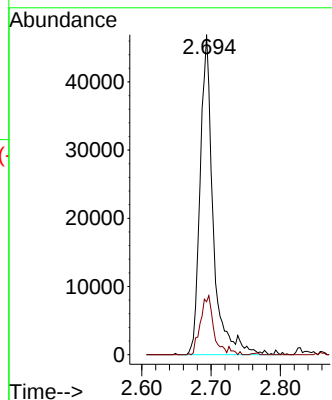
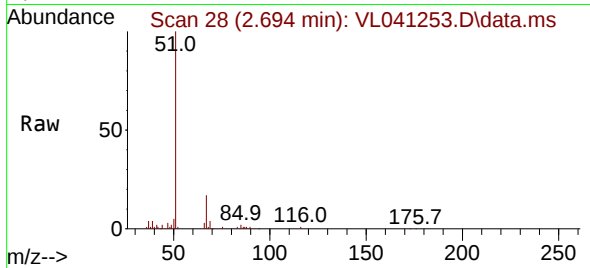
Tgt Ion: 85 Resp: 72124
Ion Ratio Lower Upper
85 100
87 33.4 25.7 38.5





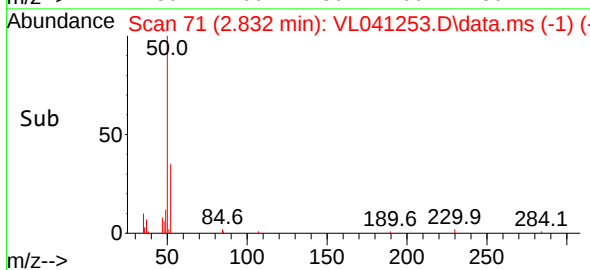
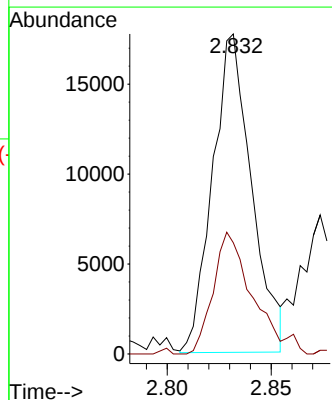
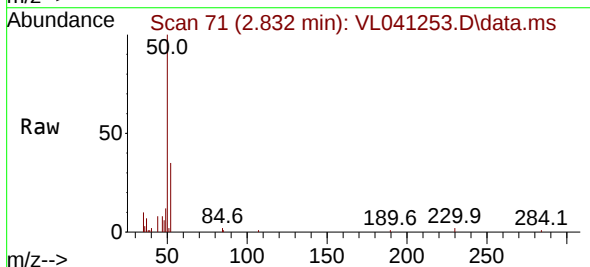
#3
Chlorodifluoromethane
Concen: 0.537 ppbv
RT: 2.694 min Scan# 28
Delta R.T. 0.003 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

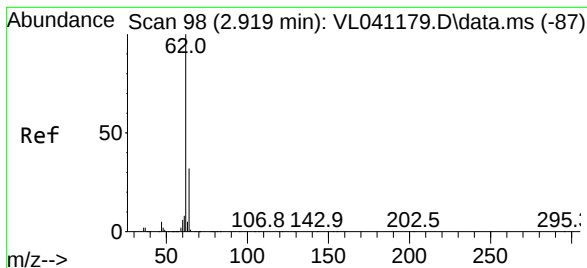
Tgt Ion: 51 Resp: 61346
Ion Ratio Lower Upper
51 100
67 19.5 14.0 21.0



#4
Chloromethane
Concen: 0.518 ppbv
RT: 2.832 min Scan# 71
Delta R.T. 0.003 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

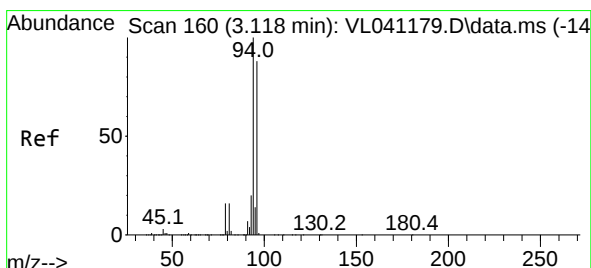
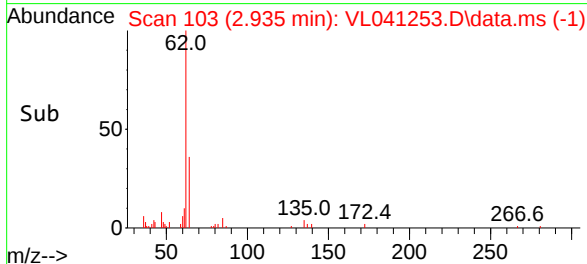
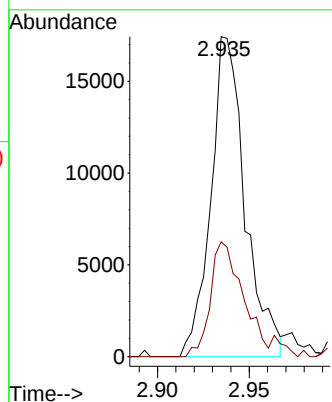
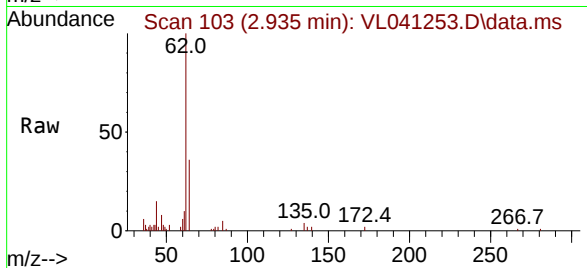
Tgt Ion: 50 Resp: 23221
Ion Ratio Lower Upper
50 100
52 35.1 28.3 42.5





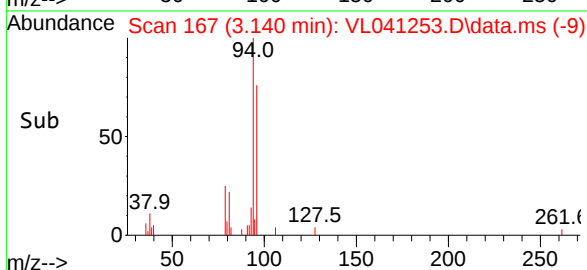
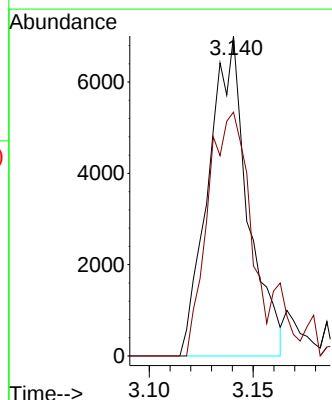
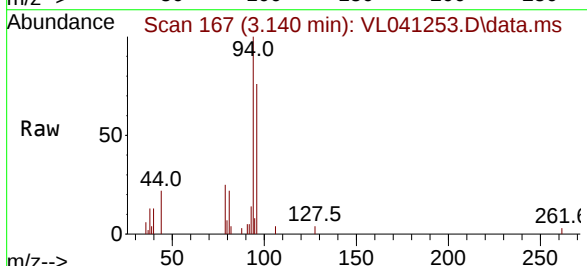
#5
 Vinyl Chloride
 Concen: 0.502 ppbv
 RT: 2.935 min Scan# 103
 Delta R.T. 0.000 min
 Lab File: VL041253.D
 Acq: 9 May 2024 11:28

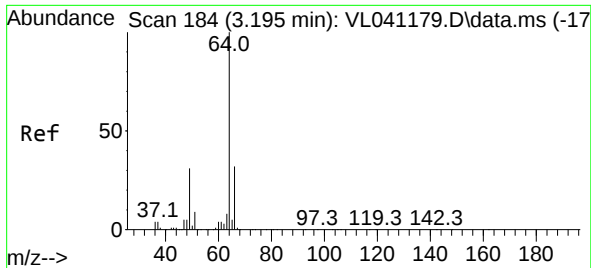
Tgt Ion: 62 Resp: 22610
 Ion Ratio Lower Upper
 62 100
 64 35.9 25.7 38.5



#6
 Bromomethane
 Concen: 0.559 ppbv
 RT: 3.140 min Scan# 167
 Delta R.T. 0.007 min
 Lab File: VL041253.D
 Acq: 9 May 2024 11:28

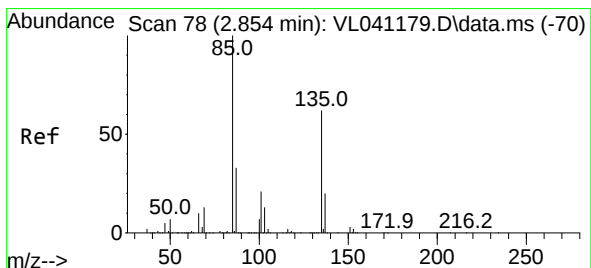
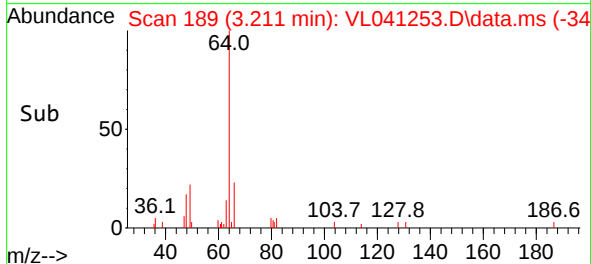
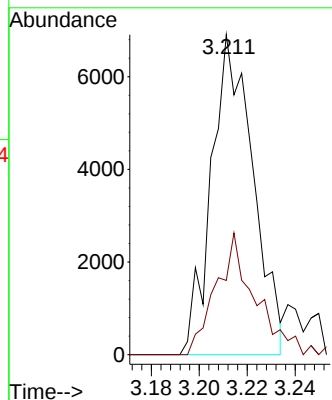
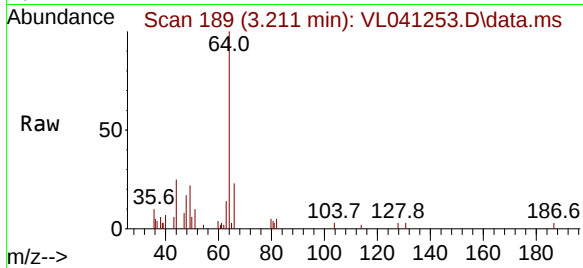
Tgt Ion: 94 Resp: 9192
 Ion Ratio Lower Upper
 94 100
 96 76.2 70.1 105.1





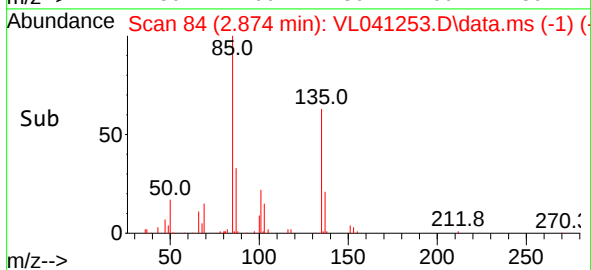
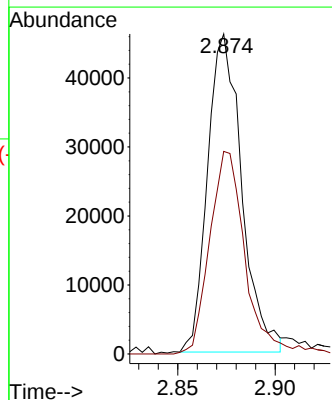
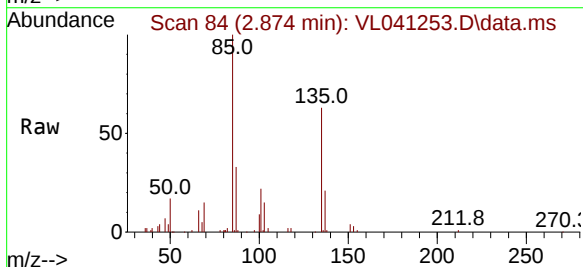
#7
Chloroethane
Concen: 0.523 ppbv
RT: 3.211 min Scan# 189
Delta R.T. -0.003 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

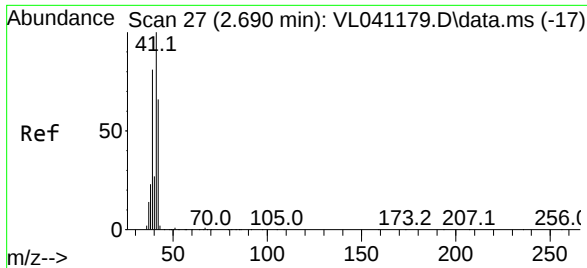
Tgt Ion: 64 Resp: 8322
Ion Ratio Lower Upper
64 100
66 23.2 25.4 38.2#



#8
Dichlorotetrafluoroethane
Concen: 0.533 ppbv
RT: 2.874 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

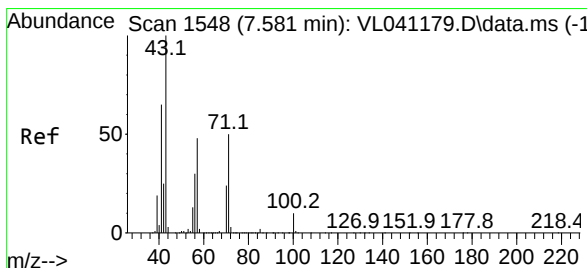
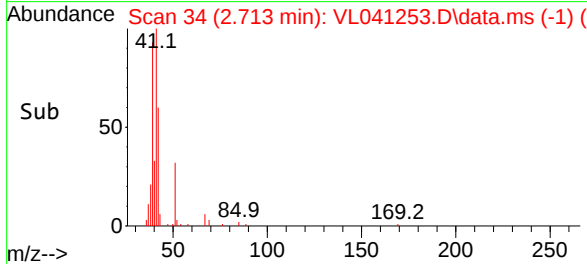
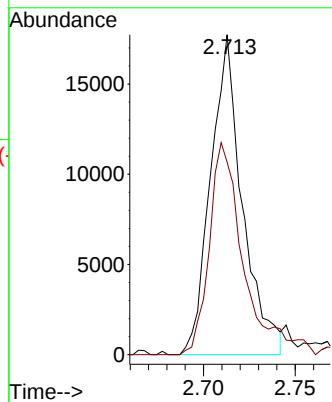
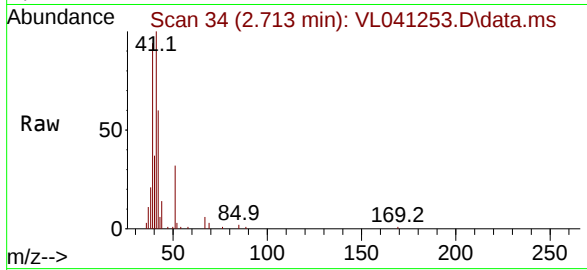
Tgt Ion: 85 Resp: 56178
Ion Ratio Lower Upper
85 100
135 68.3 51.5 77.3





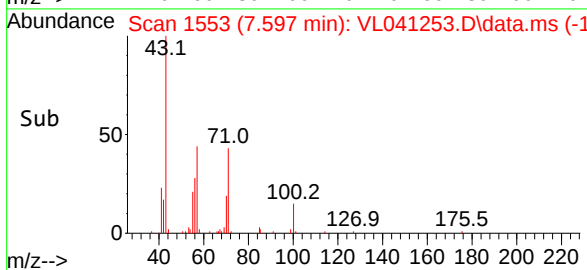
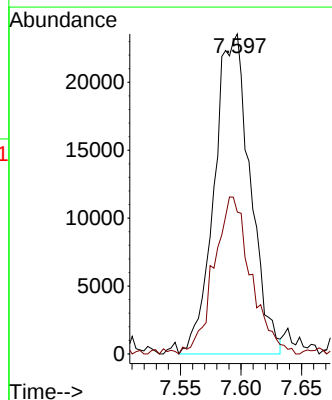
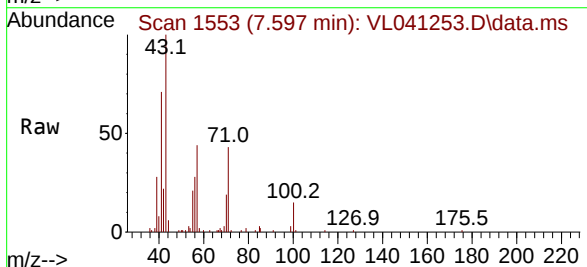
#9
Propene
Concen: 0.478 ppbv
RT: 2.713 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

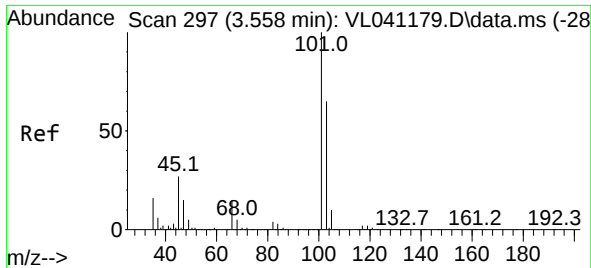
Tgt Ion: 41 Resp: 21366
Ion Ratio Lower Upper
41 100
42 73.7 55.3 82.9



#10
Heptane
Concen: 0.449 ppbv m
RT: 7.597 min Scan# 1553
Delta R.T. 0.000 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

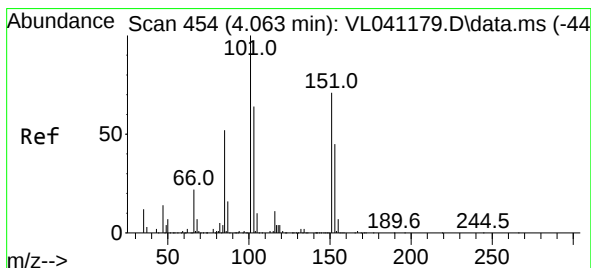
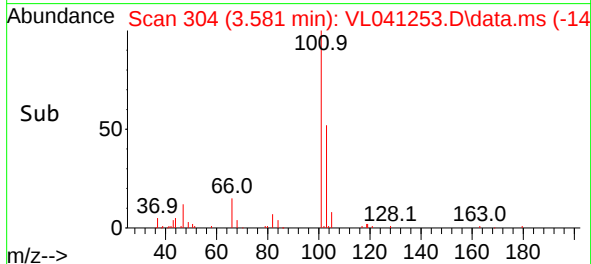
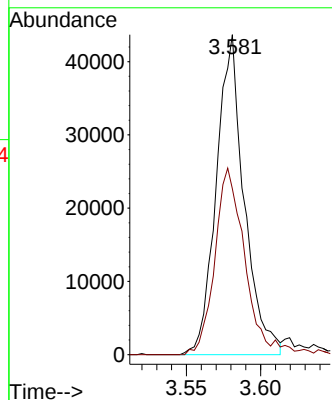
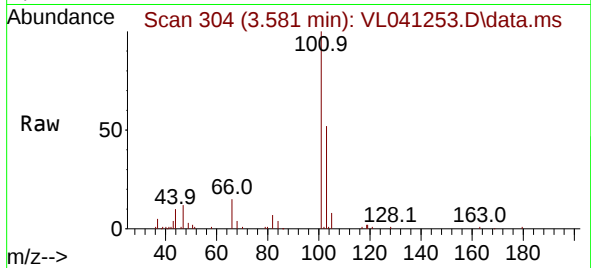
Tgt Ion: 43 Resp: 48672
Ion Ratio Lower Upper
43 100
57 0.0 38.7 58.1#





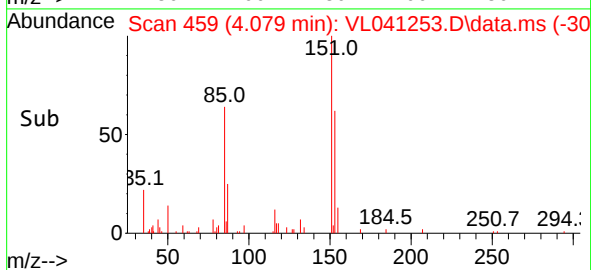
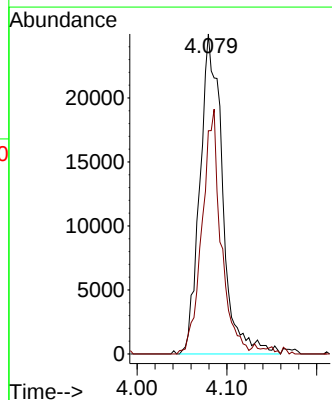
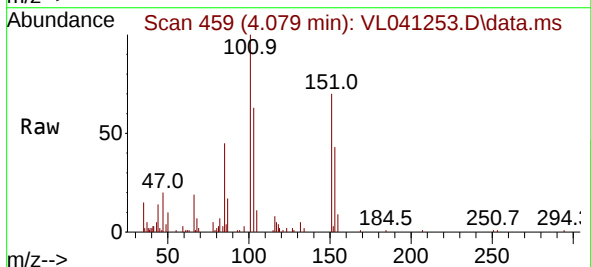
#11
 Trichlorofluoromethane
 Concen: 0.551 ppbv
 RT: 3.581 min Scan# 304
 Delta R.T. 0.003 min
 Lab File: VL041253.D
 Acq: 9 May 2024 11:28

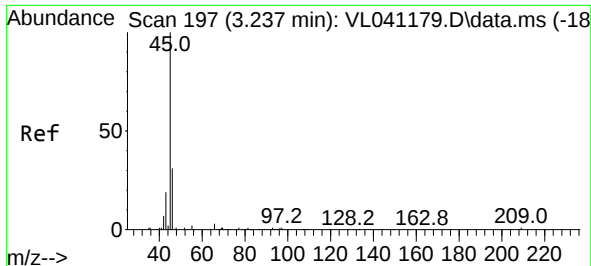
Tgt Ion:101 Resp: 56996
 Ion Ratio Lower Upper
 101 100
 103 51.8 51.6 77.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.573 ppbv m
 RT: 4.079 min Scan# 459
 Delta R.T. 0.000 min
 Lab File: VL041253.D
 Acq: 9 May 2024 11:28

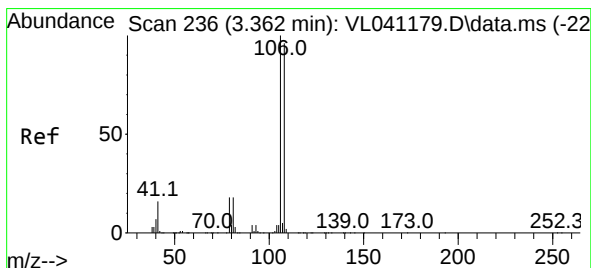
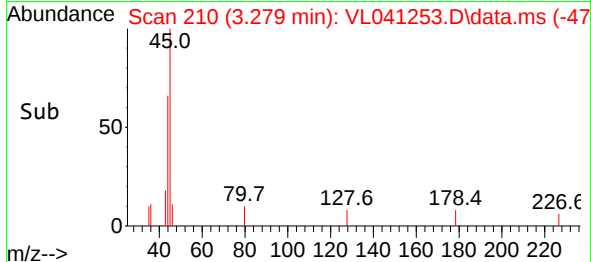
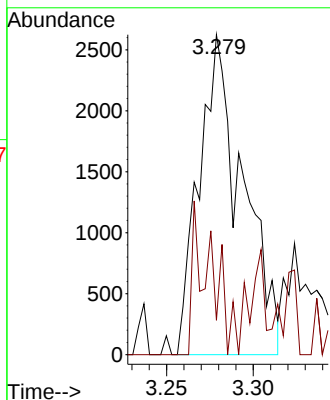
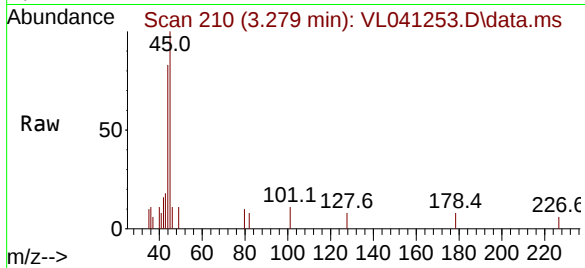
Tgt Ion:101 Resp: 43789
 Ion Ratio Lower Upper
 101 100
 151 66.5 56.8 85.2





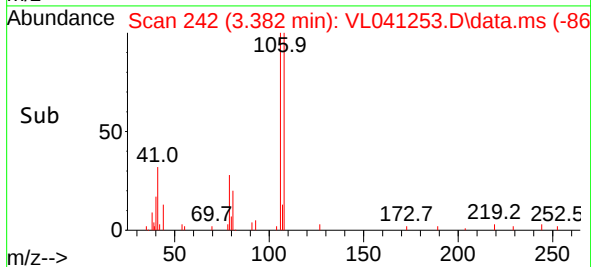
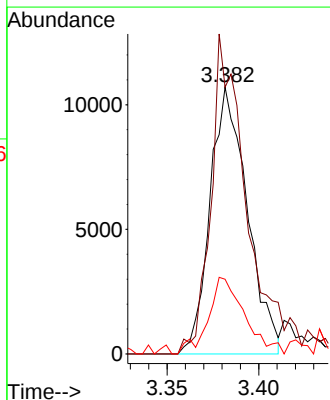
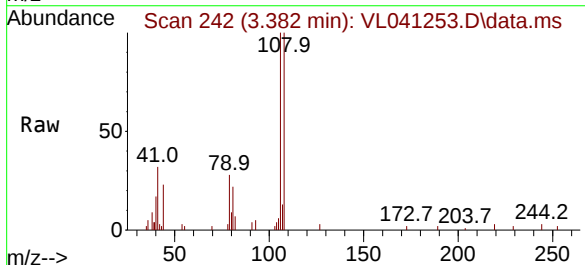
#13
Ethanol
Concen: 0.458 ppbv m
RT: 3.279 min Scan# 210
Delta R.T. 0.023 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

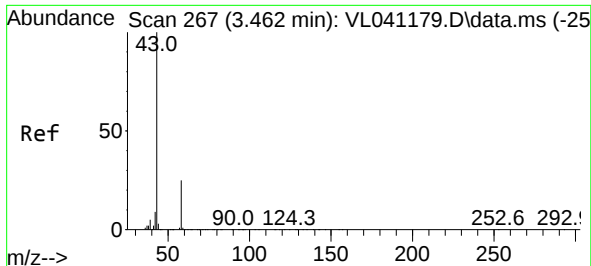
Tgt Ion: 45 Resp: 4595
Ion Ratio Lower Upper
45 100
46 40.5 14.8 59.0



#14
Bromoethene
Concen: 0.480 ppbv
RT: 3.382 min Scan# 242
Delta R.T. 0.000 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

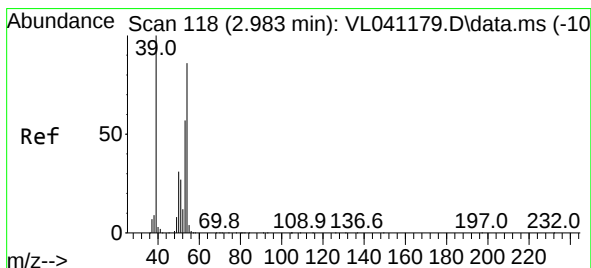
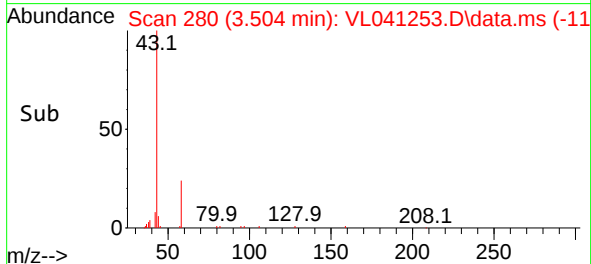
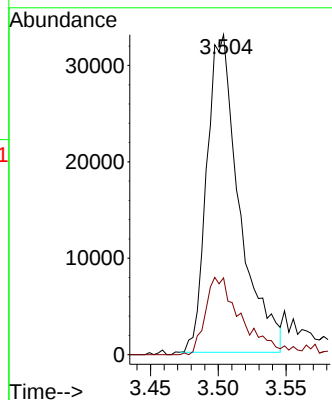
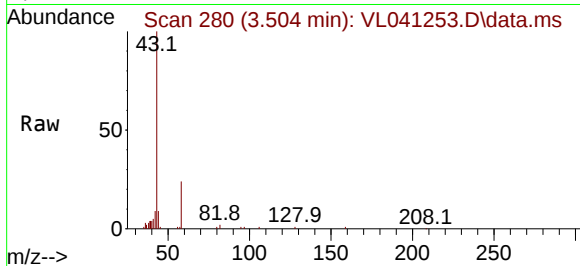
Tgt Ion: 108 Resp: 15148
Ion Ratio Lower Upper
108 100
106 119.3 88.2 132.4
79 29.0 17.4 26.0#





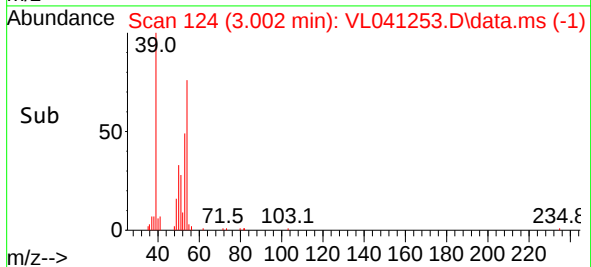
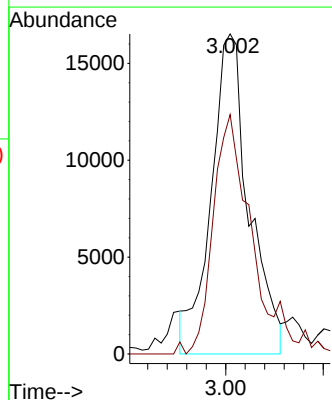
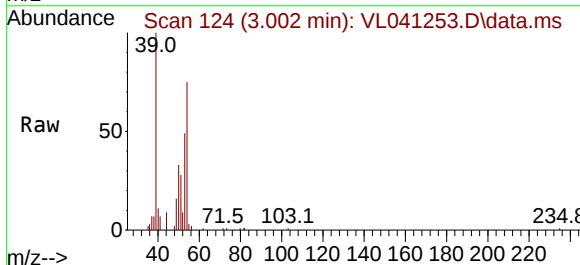
#15
Acetone
Concen: 0.620 ppbv
RT: 3.504 min Scan# 280
Delta R.T. 0.023 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

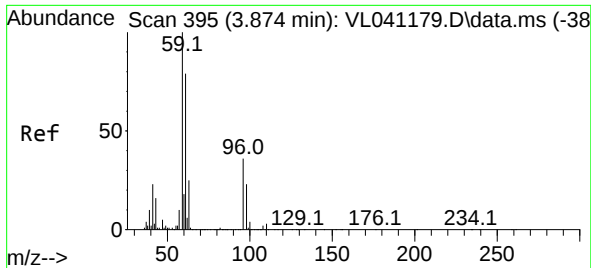
Tgt Ion: 43 Resp: 55018
Ion Ratio Lower Upper
43 100
58 27.5 21.4 32.0



#16
1,3-Butadiene
Concen: 0.498 ppbv
RT: 3.002 min Scan# 124
Delta R.T. 0.003 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

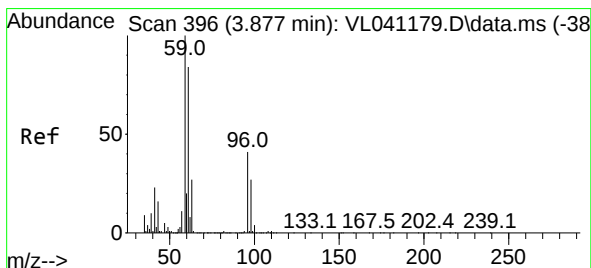
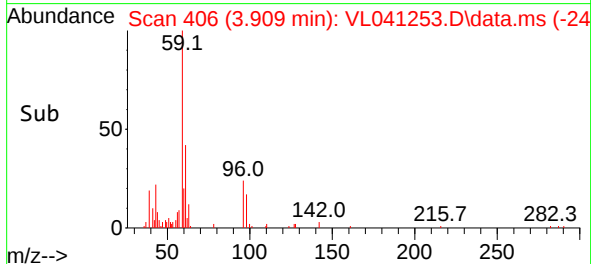
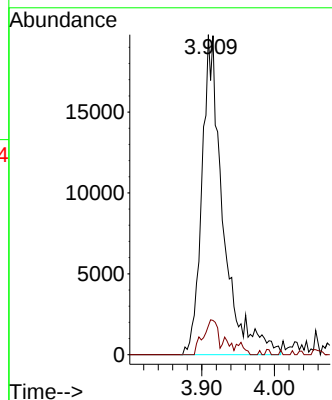
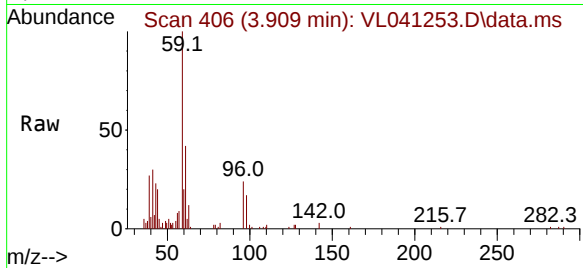
Tgt Ion: 39 Resp: 22338
Ion Ratio Lower Upper
39 100
54 80.3 62.2 93.4





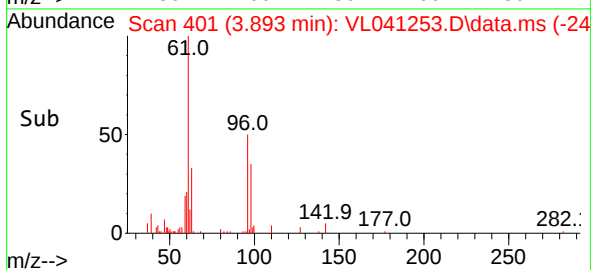
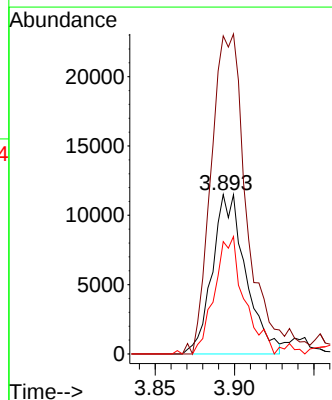
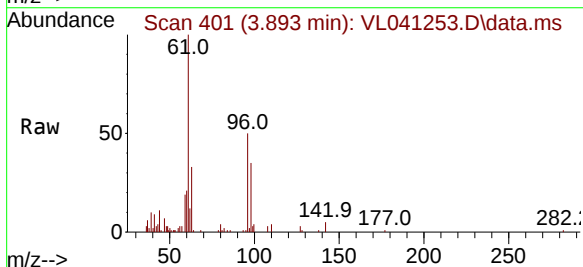
#17
tert-Butyl alcohol
Concen: 0.417 ppbv m
RT: 3.909 min Scan# 406
Delta R.T. 0.019 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

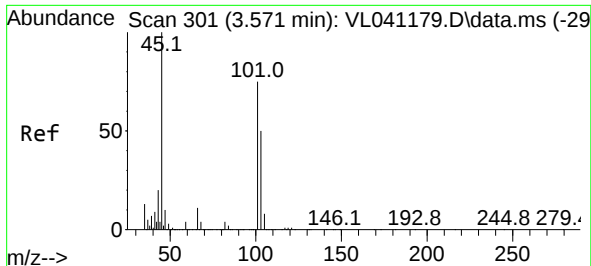
Tgt Ion: 59 Resp: 39955
Ion Ratio Lower Upper
59 100
57 10.7 8.4 12.6



#18
1,1-Dichloroethene
Concen: 0.493 ppbv m
RT: 3.893 min Scan# 401
Delta R.T. -0.003 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

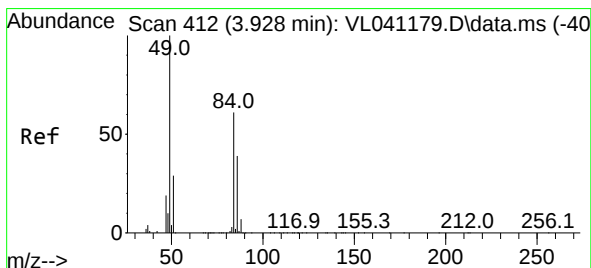
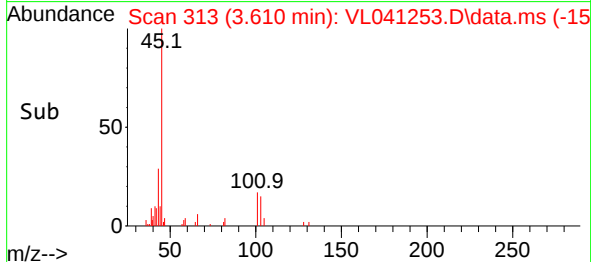
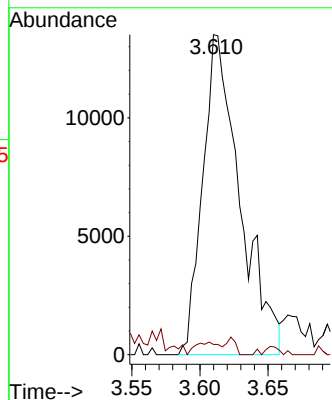
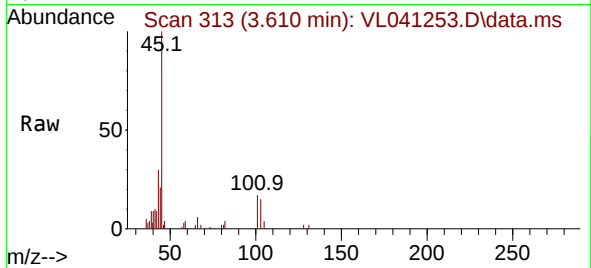
Tgt Ion: 96 Resp: 16825
Ion Ratio Lower Upper
96 100
61 199.6 164.4 246.6
98 70.5 51.8 77.8





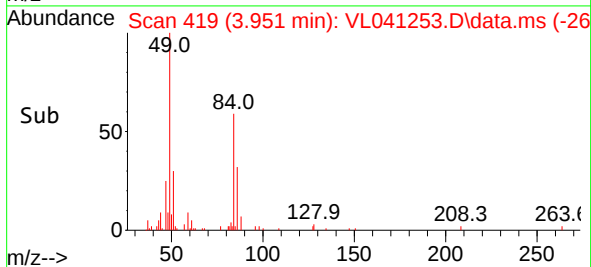
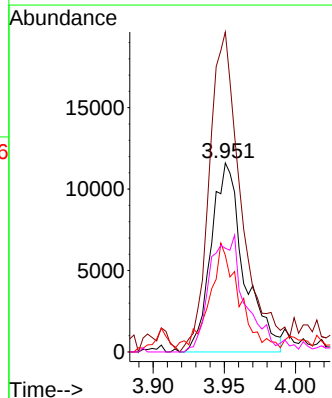
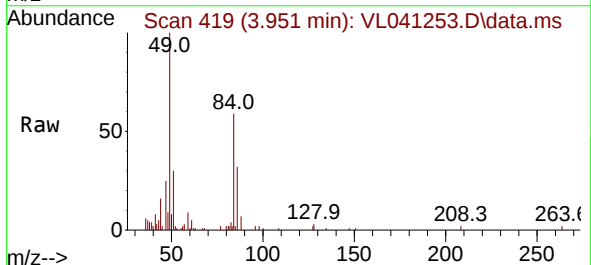
#19
Isopropyl Alcohol
Concen: 0.443 ppbv m
RT: 3.610 min Scan# 313
Delta R.T. 0.019 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

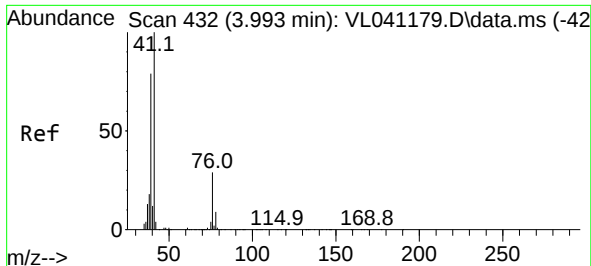
Tgt Ion: 45 Resp: 25816
Ion Ratio Lower Upper
45 100
58 5.2 26.8 40.2#



#20
Methylene Chloride
Concen: 0.604 ppbv m
RT: 3.951 min Scan# 419
Delta R.T. 0.003 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

Tgt Ion: 84 Resp: 18634
Ion Ratio Lower Upper
84 100
49 169.4 130.4 195.6
51 51.2 38.0 57.0
86 54.8 50.3 75.5





#21

Allyl Chloride

Concen: 0.487 ppbv

RT: 4.015 min Scan# 439

Delta R.T. 0.003 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

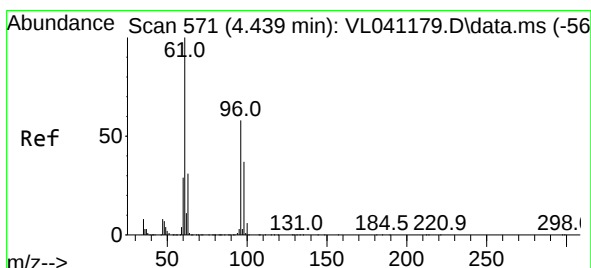
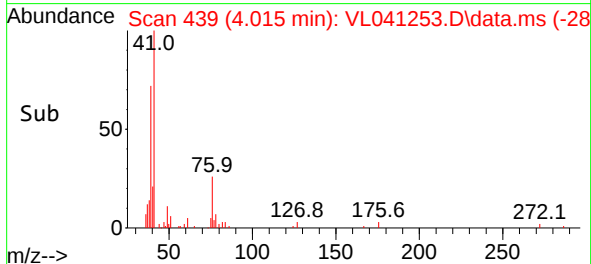
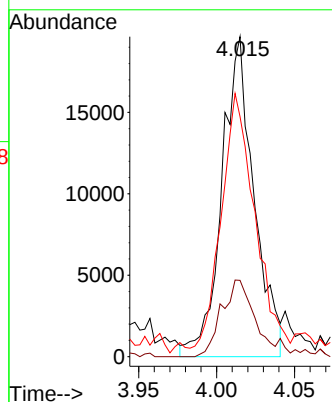
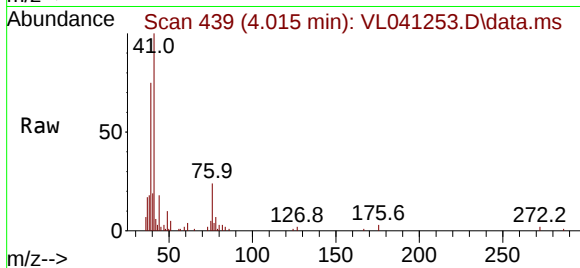
Tgt Ion: 41 Resp: 28206

Ion Ratio Lower Upper

41 100

76 27.0 23.7 35.5

39 91.5 64.7 97.1



#22

trans-1,2-Dichloroethene

Concen: 0.543 ppbv m

RT: 4.462 min Scan# 578

Delta R.T. 0.000 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

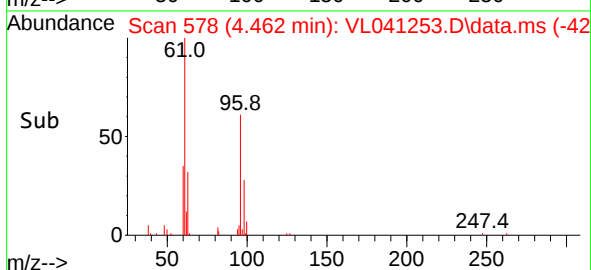
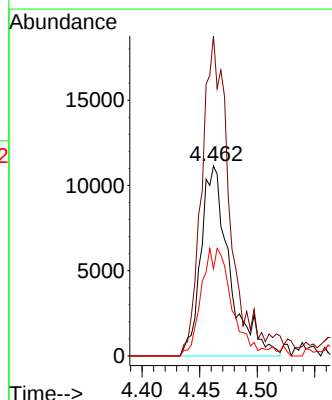
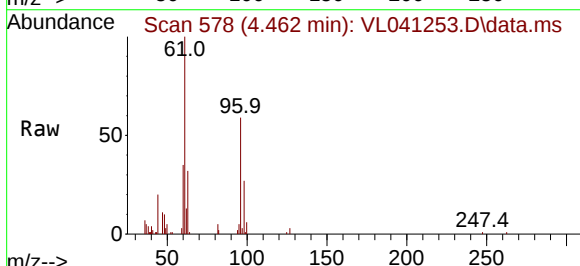
Tgt Ion: 96 Resp: 19241

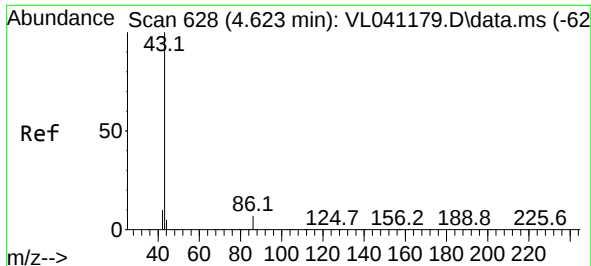
Ion Ratio Lower Upper

96 100

61 168.3 137.6 206.4

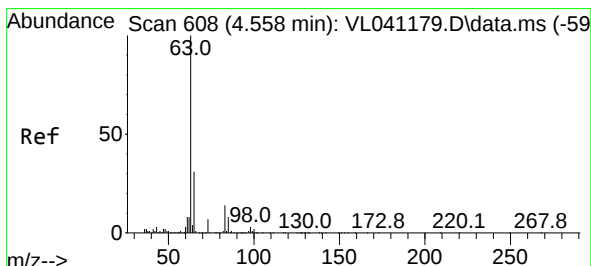
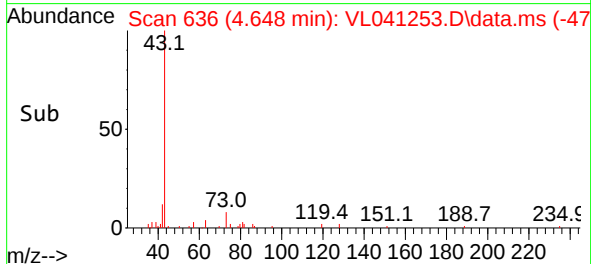
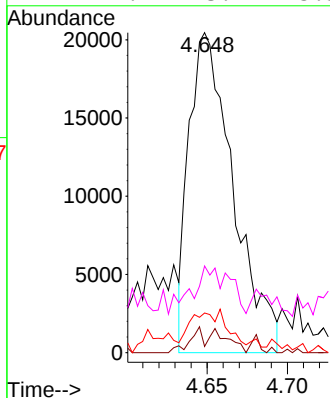
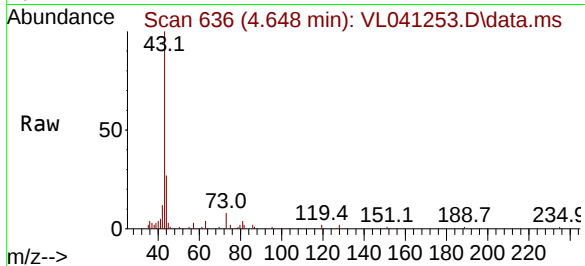
98 45.9 50.6 76.0#





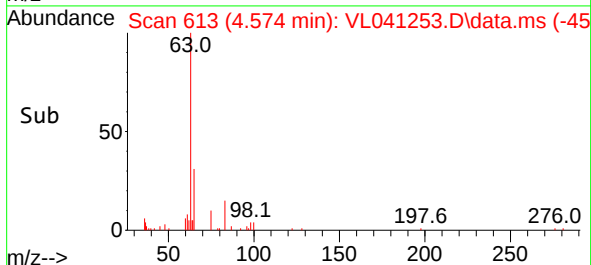
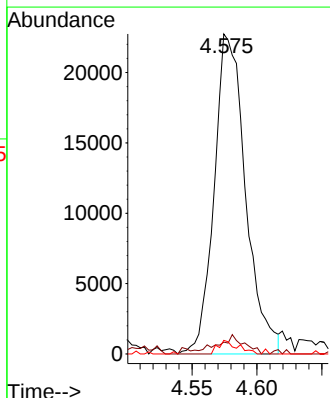
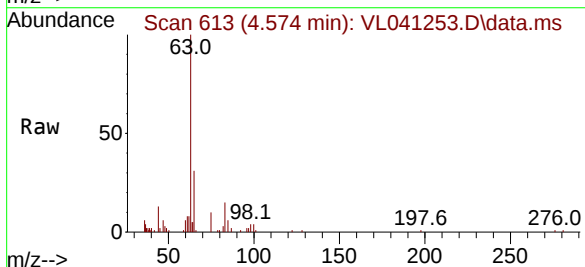
#23
 Vinyl Acetate
 Concen: 0.401 ppbv m
 RT: 4.648 min Scan# 636
 Delta R.T. 0.010 min
 Lab File: VL041253.D
 Acq: 9 May 2024 11:28

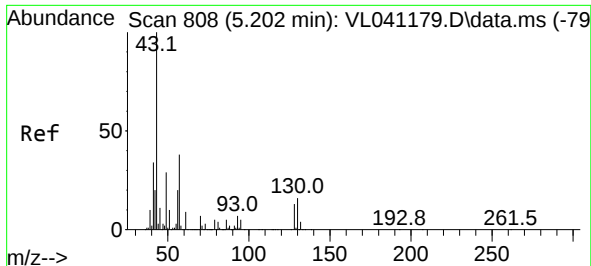
Tgt Ion:	43	Resp:	39227
Ion	Ratio	Lower	Upper
43	100		
86	1.9	4.9	7.3#
42	12.4	8.0	12.0#
44	27.1	3.7	5.5#



#24
 1,1-Dichloroethane
 Concen: 0.502 ppbv
 RT: 4.574 min Scan# 613
 Delta R.T. -0.003 min
 Lab File: VL041253.D
 Acq: 9 May 2024 11:28

Tgt Ion:	63	Resp:	38181
Ion	Ratio	Lower	Upper
63	100		
98	3.5	1.6	4.8
100	4.1	1.1	3.5#





#25

Ethyl Acetate

Concen: 0.466 ppbv

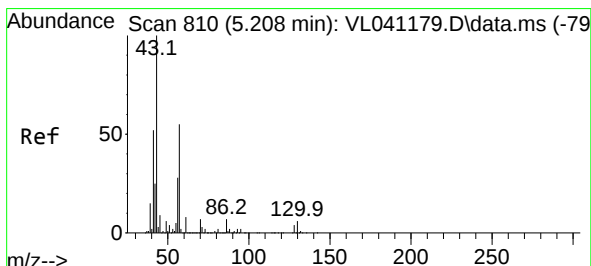
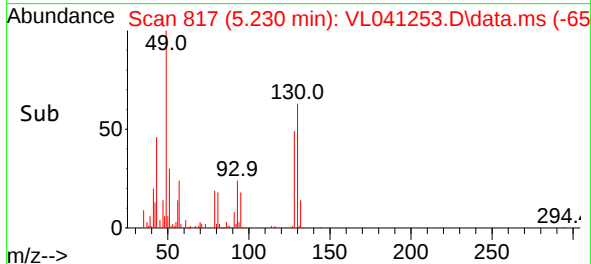
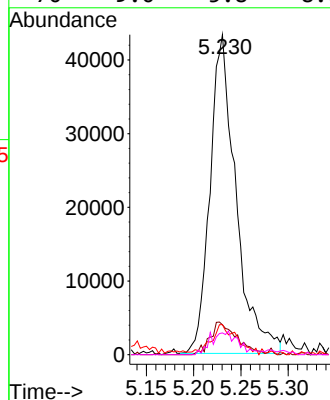
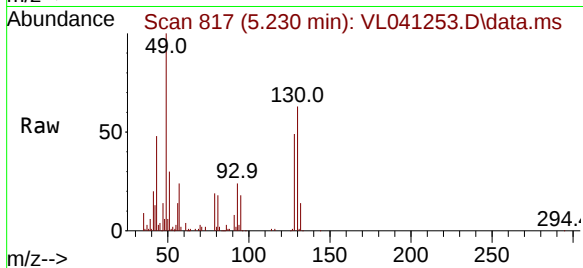
RT: 5.230 min Scan# 817

Delta R.T. 0.010 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Tgt Ion:	43	Resp:	82564
Ion	Ratio	Lower	Upper
43	100		
45	11.2	8.2	12.2
61	10.1	7.7	11.5
70	9.0	5.8	8.6



#26

Hexane

Concen: 0.461 ppbv

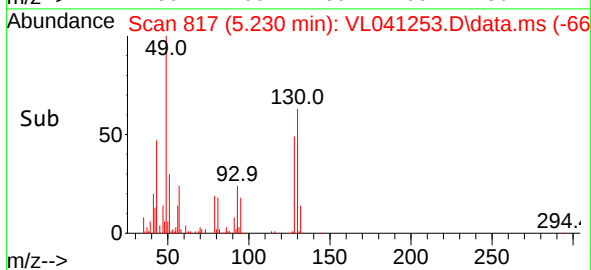
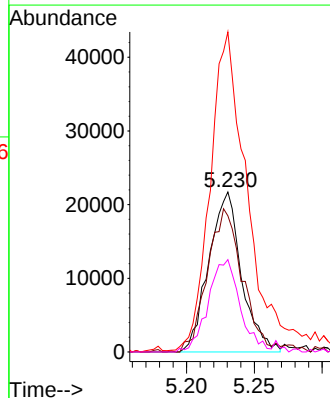
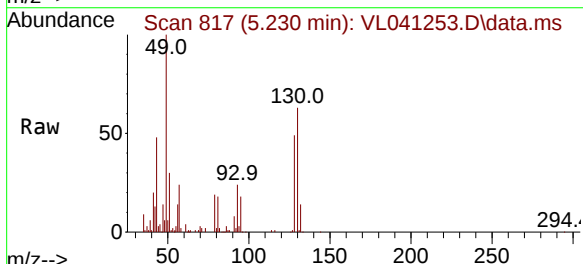
RT: 5.230 min Scan# 817

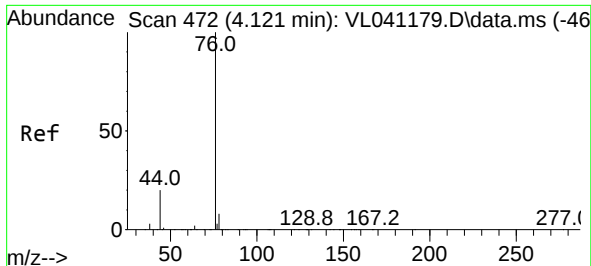
Delta R.T. 0.003 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

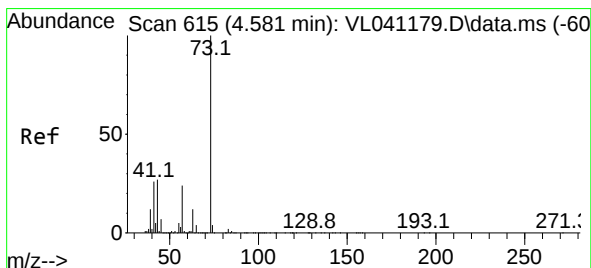
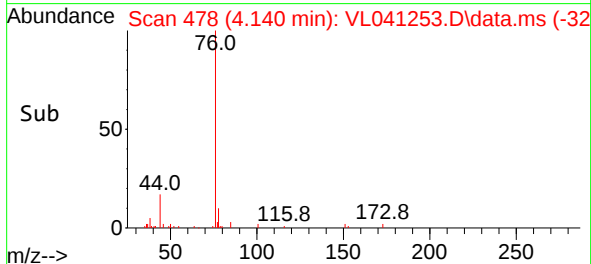
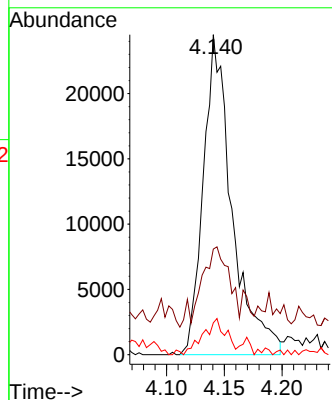
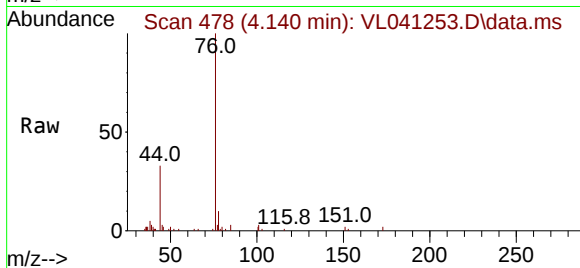
Tgt Ion:	57	Resp:	36471
Ion	Ratio	Lower	Upper
57	100		
41	99.5	75.8	113.8
43	230.3	187.0	280.4
56	58.0	42.7	64.1





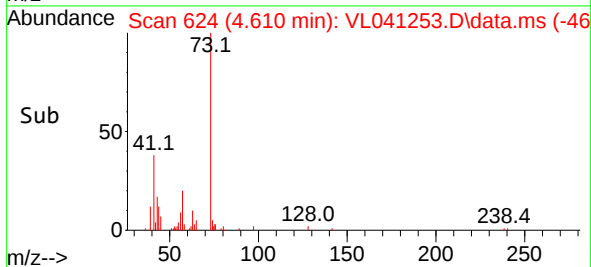
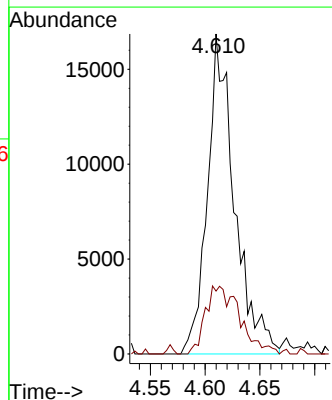
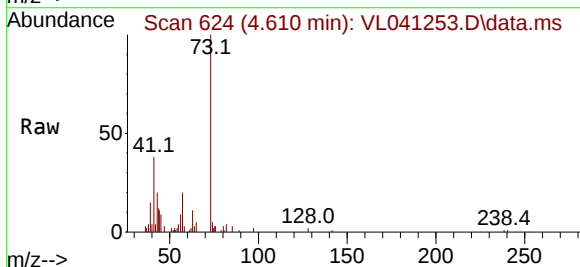
#27
Carbon Disulfide
Concen: 0.452 ppbv
RT: 4.140 min Scan# 478
Delta R.T. 0.000 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

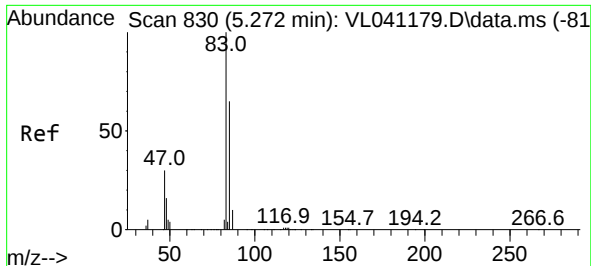
Tgt Ion: 76 Resp: 42317
Ion Ratio Lower Upper
76 100
44 25.9 16.3 24.5#
78 11.3 7.3 10.9#



#28
Methyl tert-Butyl Ether
Concen: 0.461 ppbv m
RT: 4.610 min Scan# 624
Delta R.T. 0.010 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

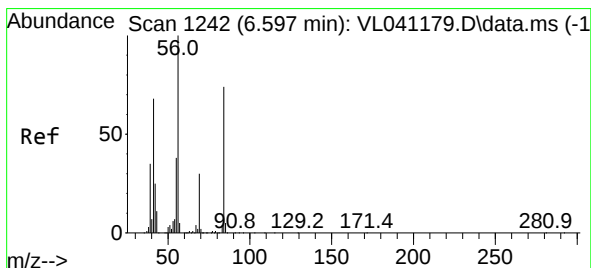
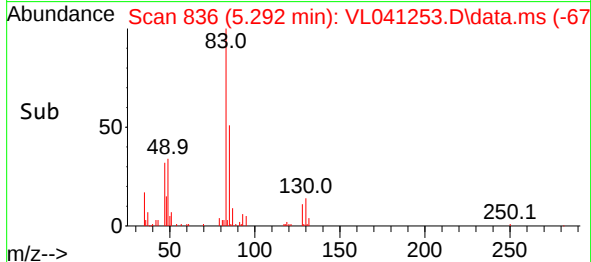
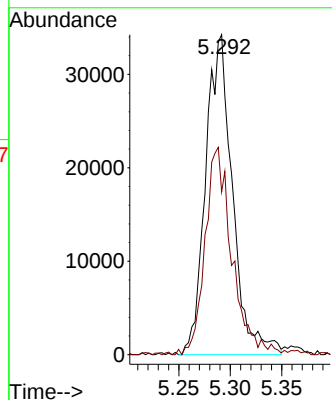
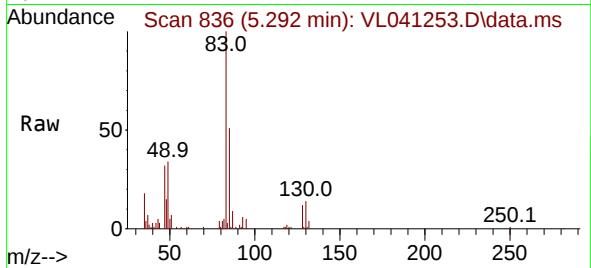
Tgt Ion: 73 Resp: 29014
Ion Ratio Lower Upper
73 100
57 27.6 18.8 28.2





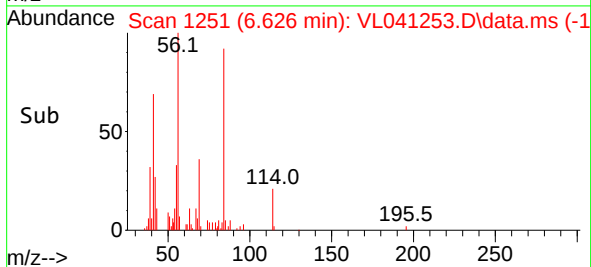
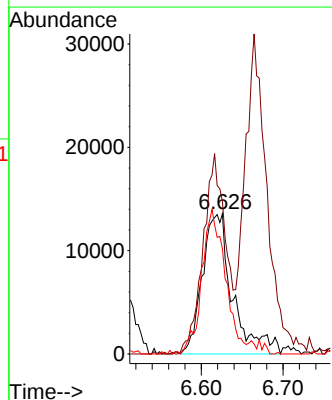
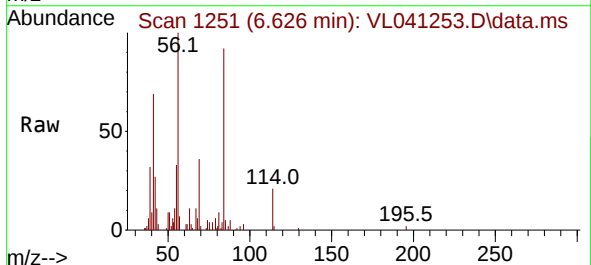
#29
Chloroform
Concen: 0.570 ppbv m
RT: 5.292 min Scan# 836
Delta R.T. 0.003 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

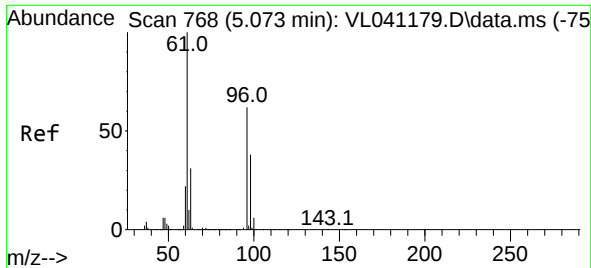
Tgt Ion: 83 Resp: 62206
Ion Ratio Lower Upper
83 100
85 50.8 51.7 77.5#



#30
Cyclohexane
Concen: 0.557 ppbv m
RT: 6.626 min Scan# 1251
Delta R.T. 0.010 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

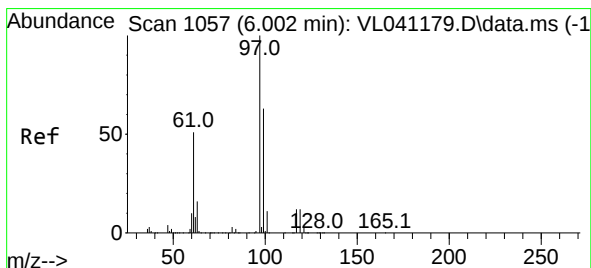
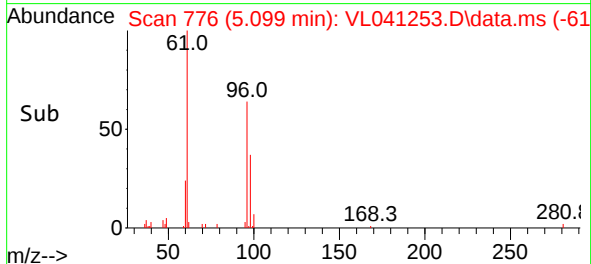
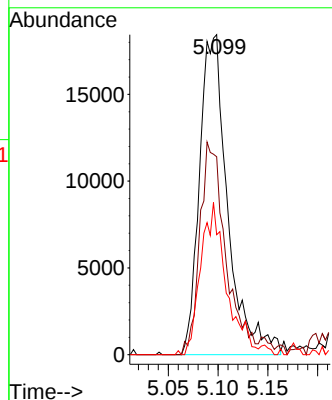
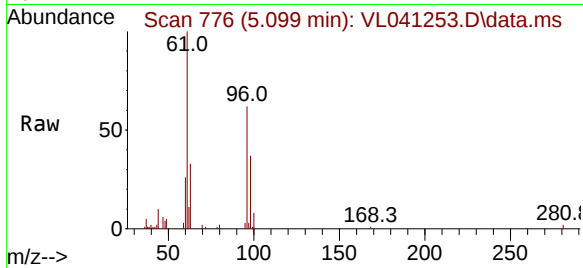
Tgt Ion: 84 Resp: 34858
Ion Ratio Lower Upper
84 100
56 108.8 116.8 175.2#
41 84.0 73.8 110.8





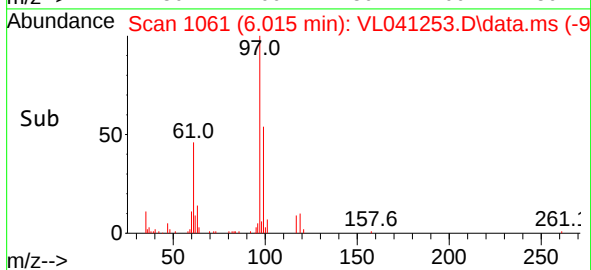
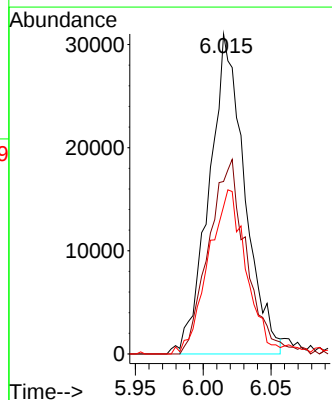
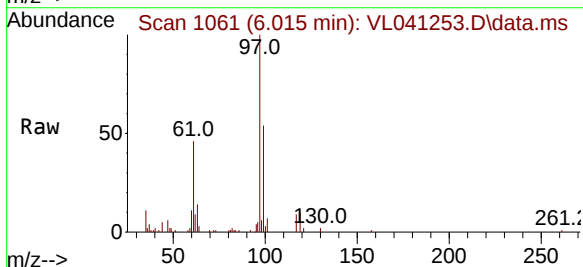
#31
 cis-1,2-Dichloroethene
 Concen: 0.491 ppbv m
 RT: 5.099 min Scan# 776
 Delta R.T. 0.003 min
 Lab File: VL041253.D
 Acq: 9 May 2024 11:28

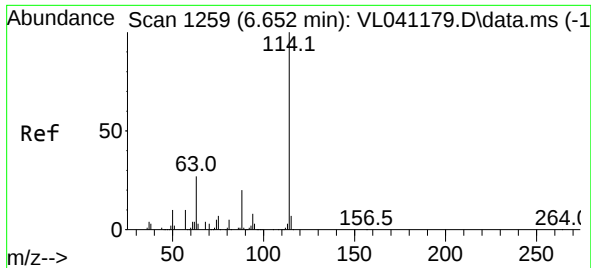
Tgt Ion: 61 Resp: 36333
 Ion Ratio Lower Upper
 61 100
 96 61.9 49.8 74.6
 98 37.5 30.0 45.0



#32
 1,1,1-Trichloroethane
 Concen: 0.517 ppbv
 RT: 6.015 min Scan# 1061
 Delta R.T. -0.003 min
 Lab File: VL041253.D
 Acq: 9 May 2024 11:28

Tgt Ion: 97 Resp: 56268
 Ion Ratio Lower Upper
 97 100
 99 65.4 51.7 77.5
 61 57.1 41.1 61.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.668 min Scan# 1264

Delta R.T. 0.000 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

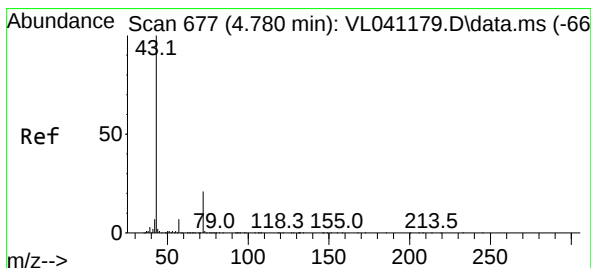
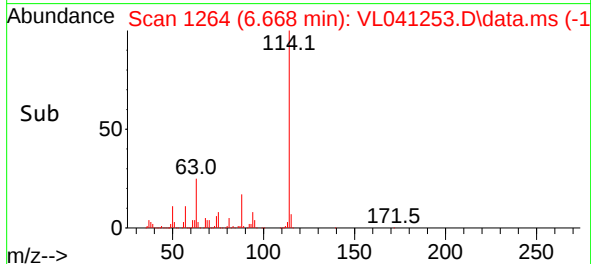
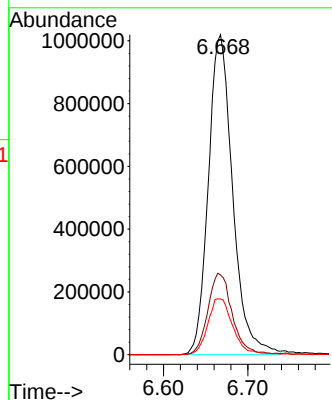
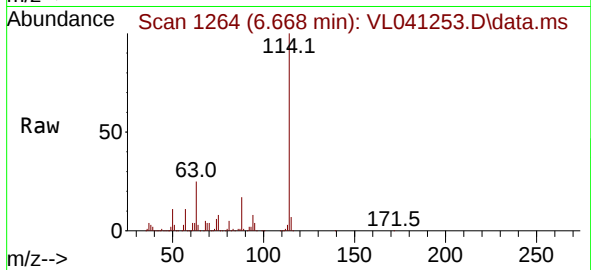
Tgt Ion:114 Resp: 2045422

Ion Ratio Lower Upper

114 100

63 26.1 21.8 32.6

88 18.2 15.2 22.8



#34

2-Butanone

Concen: 0.506 ppbv m

RT: 4.816 min Scan# 688

Delta R.T. 0.016 min

Lab File: VL041253.D

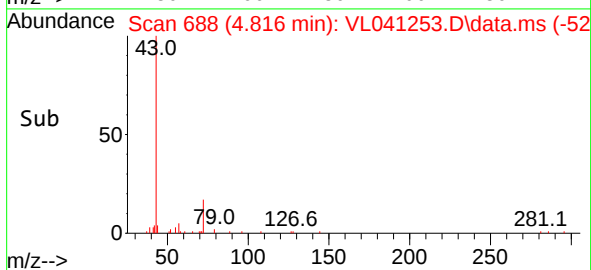
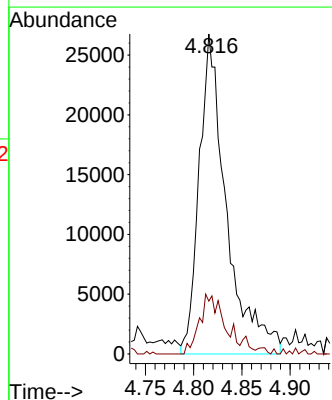
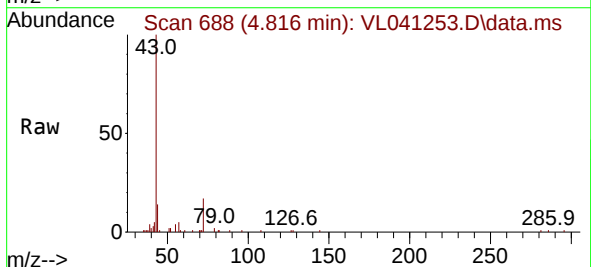
Acq: 9 May 2024 11:28

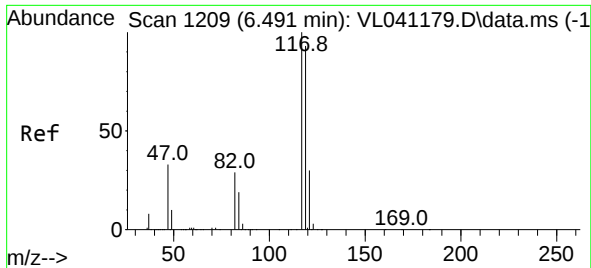
Tgt Ion: 43 Resp: 52686

Ion Ratio Lower Upper

43 100

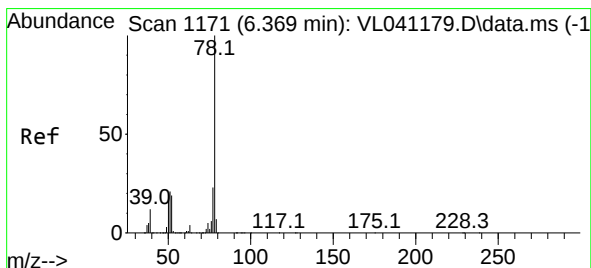
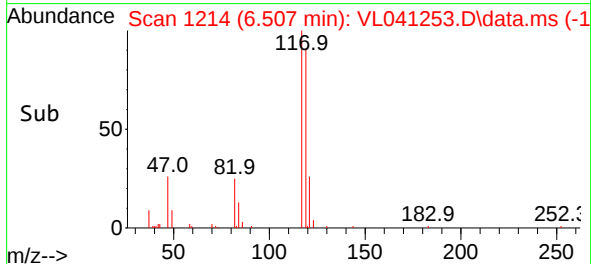
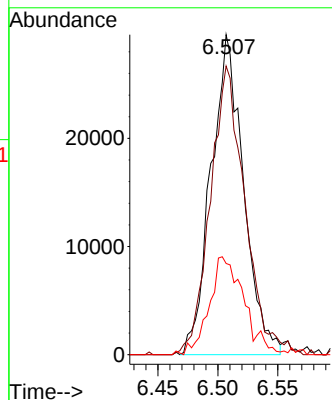
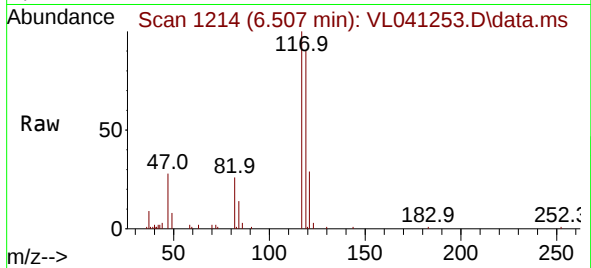
72 18.8 17.3 25.9





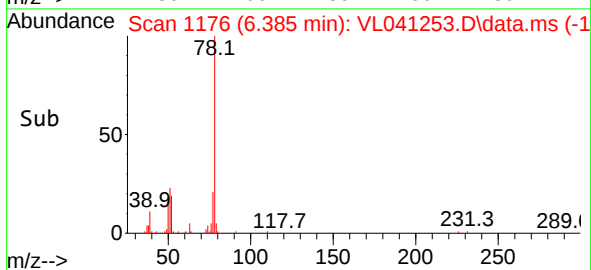
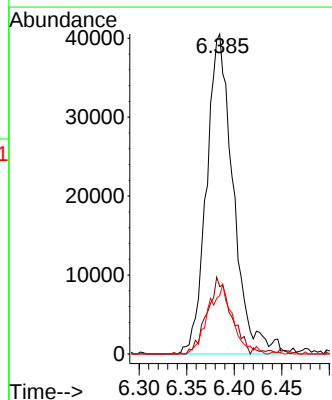
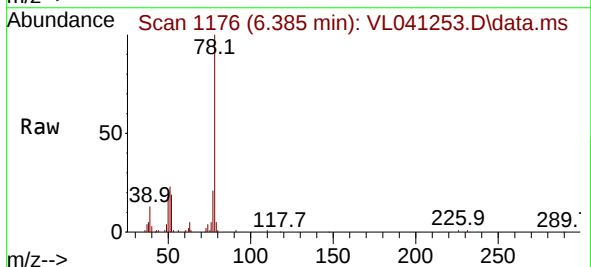
#35
Carbon Tetrachloride
Concen: 0.486 ppbv
RT: 6.507 min Scan# 1214
Delta R.T. -0.003 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

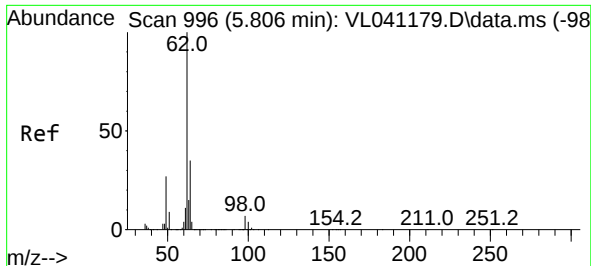
Tgt Ion:117 Resp: 55837
Ion Ratio Lower Upper
117 100
119 89.0 74.3 111.5
121 28.0 23.8 35.8



#36
Benzene
Concen: 0.462 ppbv m
RT: 6.385 min Scan# 1176
Delta R.T. 0.000 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

Tgt Ion: 78 Resp: 79335
Ion Ratio Lower Upper
78 100
77 21.1 18.3 27.5
50 18.3 15.9 23.9





#37

1,2-Dichloroethane

Concen: 0.473 ppbv

RT: 5.822 min Scan# 1001

Delta R.T. 0.000 min

Lab File: VL041253.D

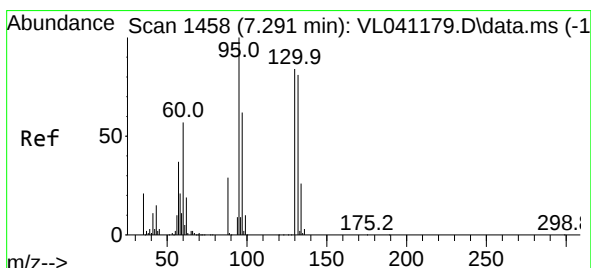
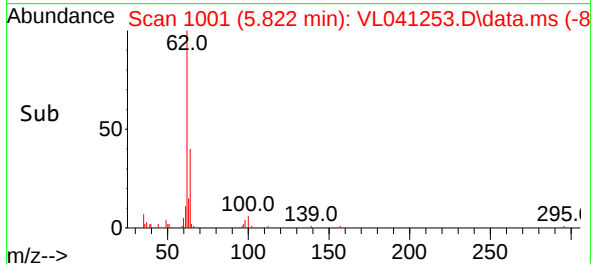
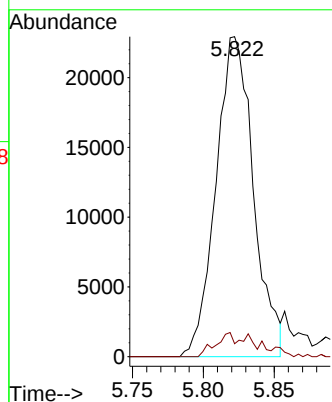
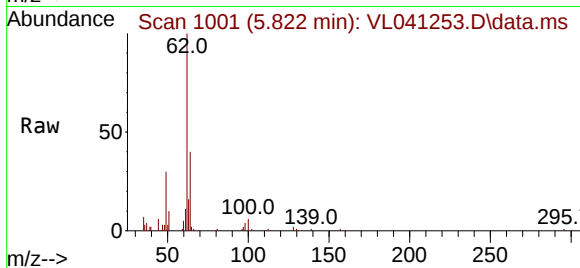
Acq: 9 May 2024 11:28

Tgt Ion: 62 Resp: 42318

Ion Ratio Lower Upper

62 100

98 8.1 5.0 7.4#



#38

Trichloroethene

Concen: 0.482 ppbv

RT: 7.304 min Scan# 1462

Delta R.T. -0.003 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Tgt Ion: 130 Resp: 30807

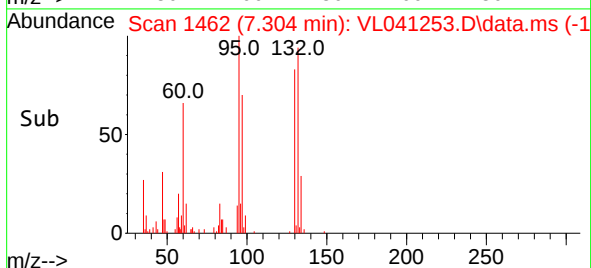
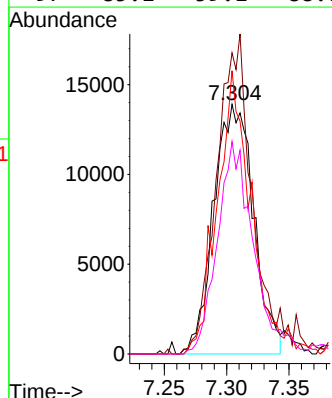
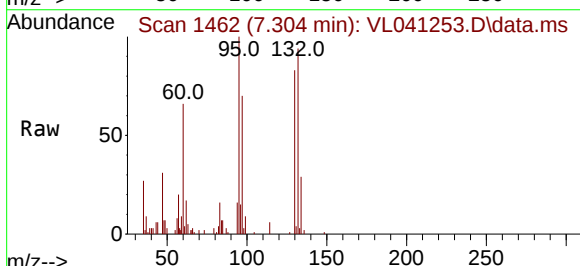
Ion Ratio Lower Upper

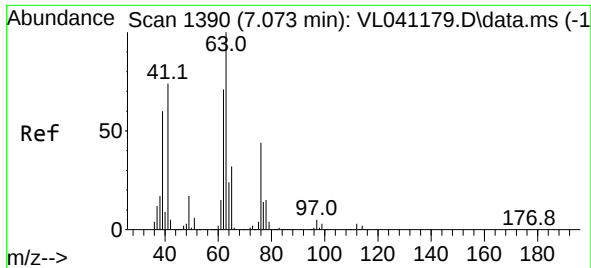
130 100

95 120.7 95.0 142.6

132 113.5 77.0 115.4

97 85.1 59.1 88.7





#39

1,2-Dichloropropane

Concen: 0.465 ppbv

RT: 7.082 min Scan# 1393

Delta R.T. -0.006 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

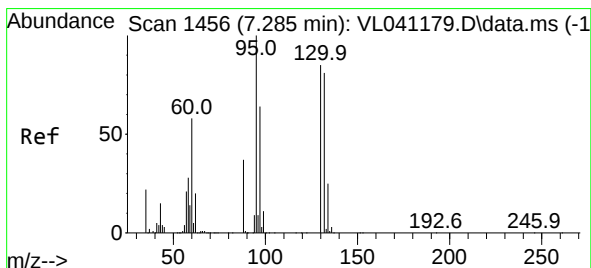
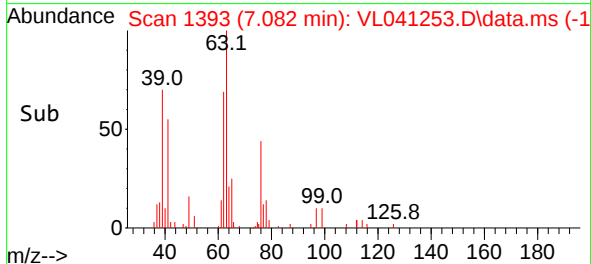
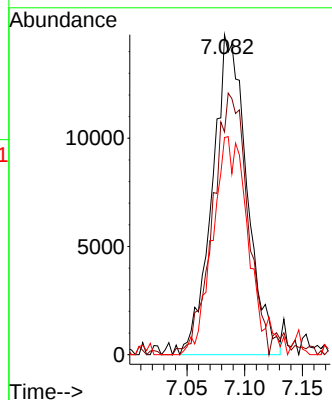
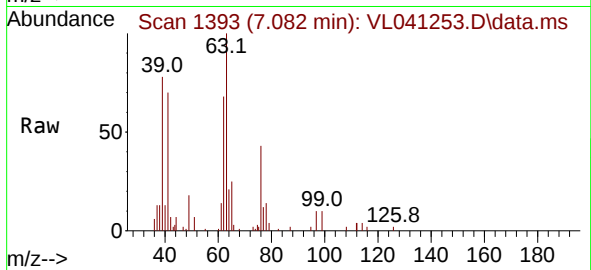
Tgt Ion: 63 Resp: 30747

Ion Ratio Lower Upper

63 100

41 67.7 59.4 89.0

62 67.8 56.8 85.2



#40

1,4-Dioxane

Concen: 0.406 ppbv m

RT: 7.346 min Scan# 1475

Delta R.T. 0.048 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Tgt Ion: 88 Resp: 9601

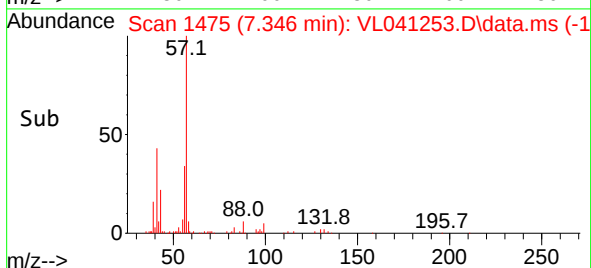
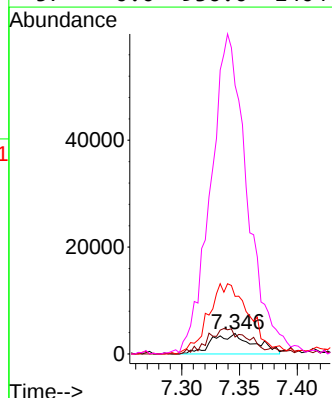
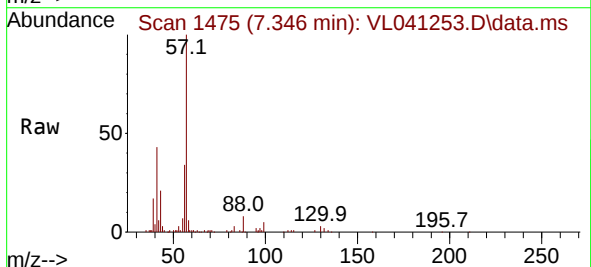
Ion Ratio Lower Upper

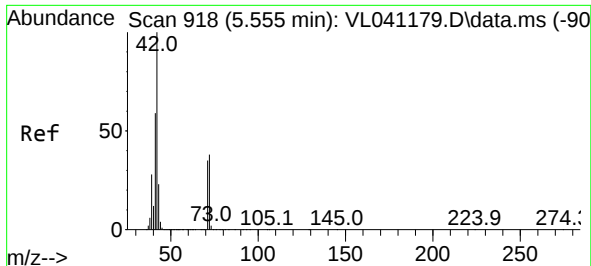
88 100

58 0.0 106.1 159.1#

43 0.0 219.8 329.6#

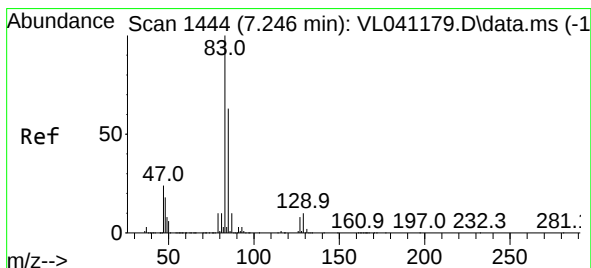
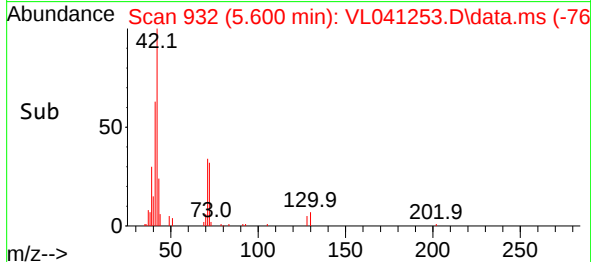
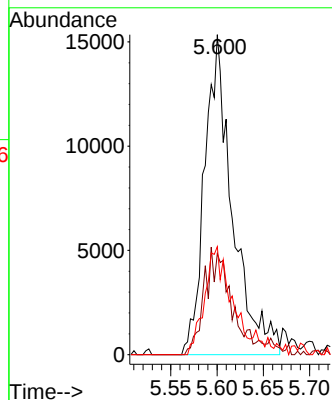
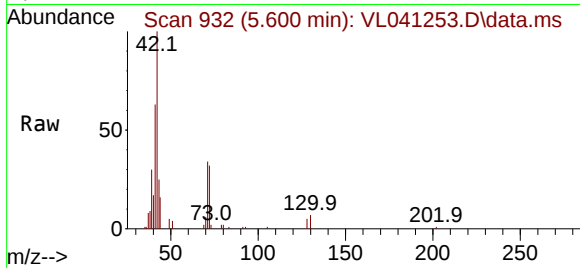
57 0.0 936.0 1404.0#





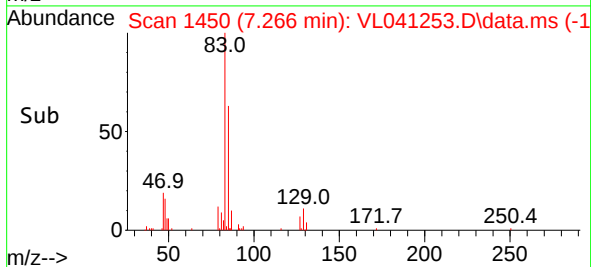
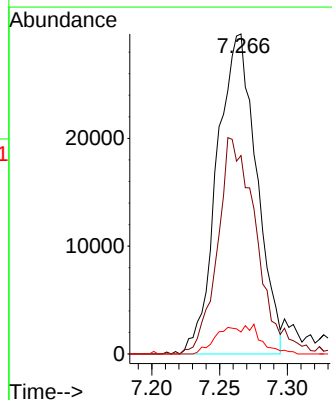
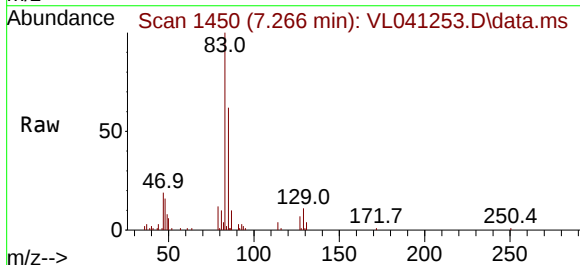
#41
Tetrahydrofuran
Concen: 0.425 ppbv m
RT: 5.600 min Scan# 932
Delta R.T. 0.029 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

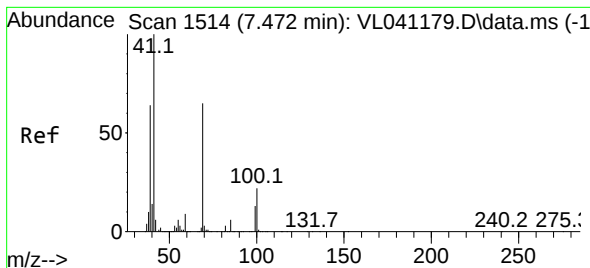
Tgt Ion: 42 Resp: 32056
Ion Ratio Lower Upper
42 100
72 32.6 29.4 44.0
71 0.0 29.1 43.7#



#42
Bromodichloromethane
Concen: 0.468 ppbv
RT: 7.266 min Scan# 1450
Delta R.T. 0.003 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

Tgt Ion: 83 Resp: 60129
Ion Ratio Lower Upper
83 100
85 62.0 50.6 75.8
127 6.8 6.2 9.4





#43

Methyl Methacrylate

Concen: 0.419 ppbv

RT: 7.494 min Scan# 1521

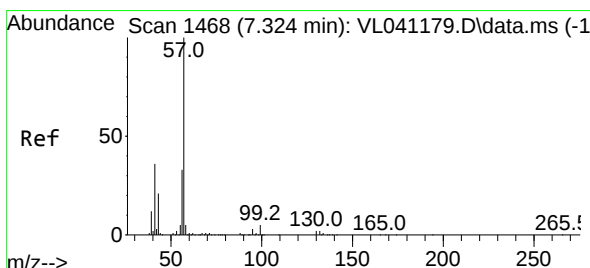
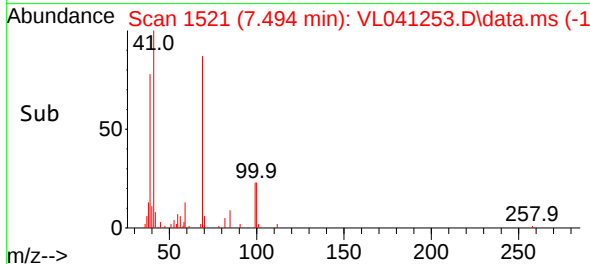
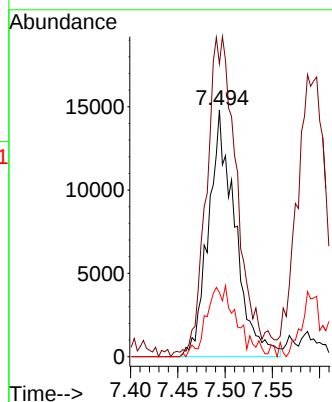
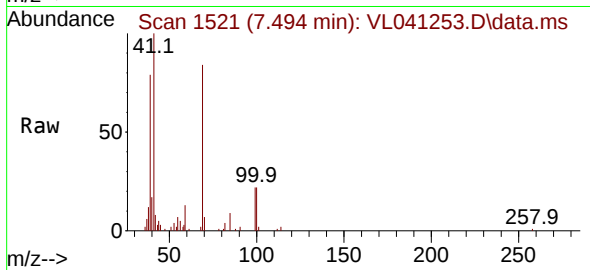
Delta R.T. 0.007 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Tgt Ion: 69 Resp: 29069

Ion	Ratio	Lower	Upper
69	100		
41	151.4	125.2	187.8
100	33.6	26.7	40.1



#44

2,2,4-Trimethylpentane

Concen: 0.442 ppbv

RT: 7.340 min Scan# 1473

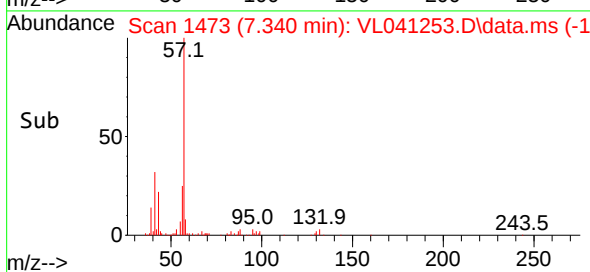
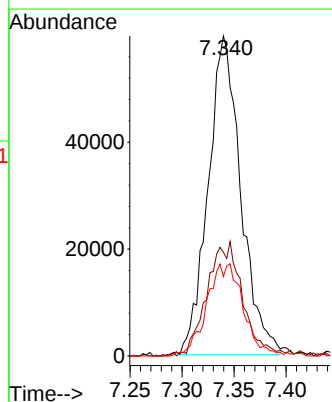
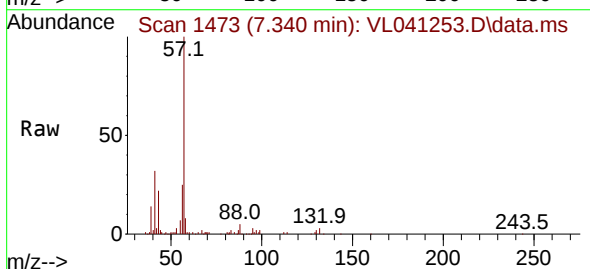
Delta R.T. 0.000 min

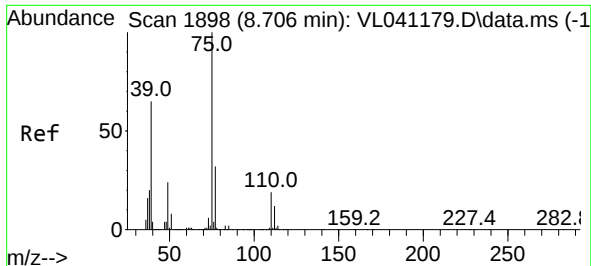
Lab File: VL041253.D

Acq: 9 May 2024 11:28

Tgt Ion: 57 Resp: 130808

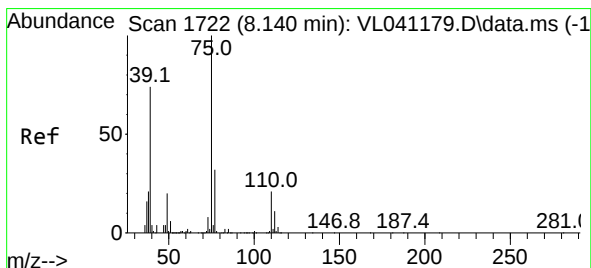
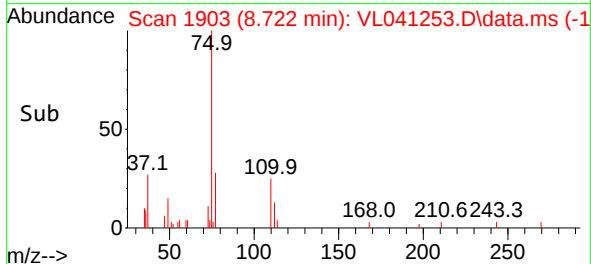
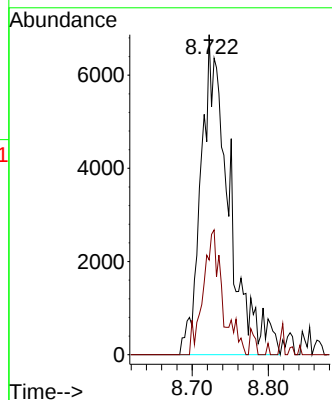
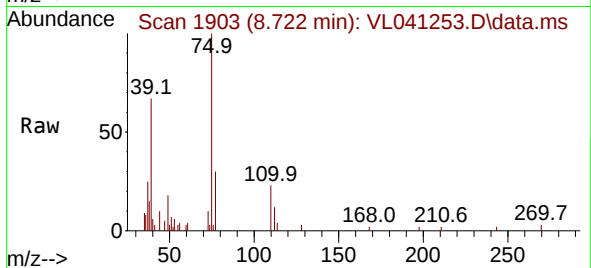
Ion	Ratio	Lower	Upper
57	100		
41	39.9	29.5	44.3
56	32.5	25.3	37.9





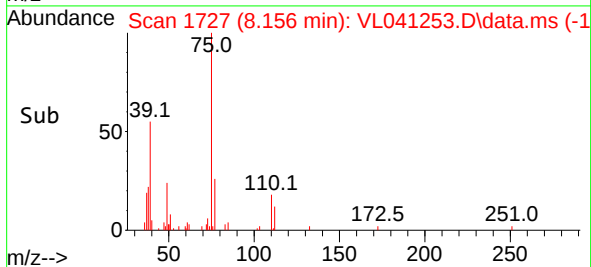
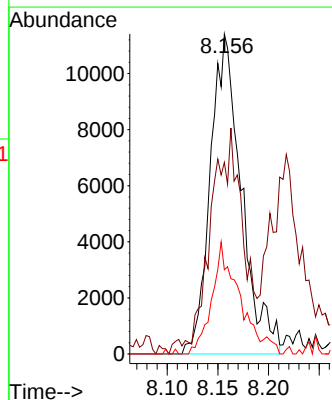
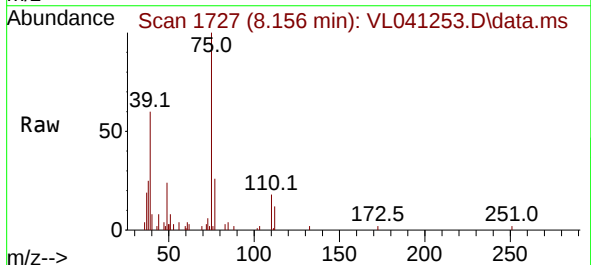
#45
 t-1,3-Dichloropropene
 Concen: 0.349 ppbv m
 RT: 8.722 min Scan# 1903
 Delta R.T. 0.000 min
 Lab File: VL041253.D
 Acq: 9 May 2024 11:28

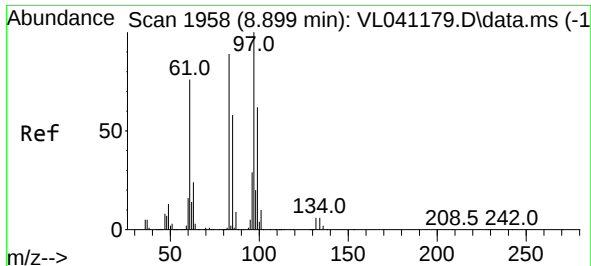
Tgt Ion: 75 Resp: 17562
 Ion Ratio Lower Upper
 75 100
 77 29.6 25.6 38.4



#46
 cis-1,3-Dichloropropene
 Concen: 0.395 ppbv m
 RT: 8.156 min Scan# 1727
 Delta R.T. 0.000 min
 Lab File: VL041253.D
 Acq: 9 May 2024 11:28

Tgt Ion: 75 Resp: 24346
 Ion Ratio Lower Upper
 75 100
 39 59.8 59.4 89.2
 77 26.3 25.9 38.9





#47

1,1,2-Trichloroethane

Concen: 0.493 ppbv m

RT: 8.912 min Scan# 1962

Delta R.T. -0.003 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Tgt Ion: 97 Resp: 32652

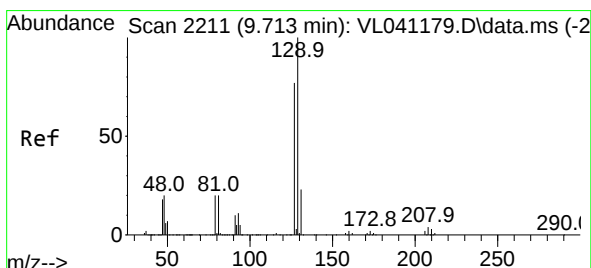
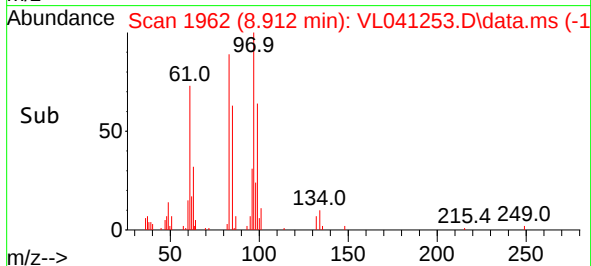
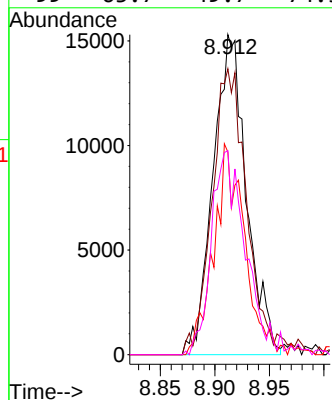
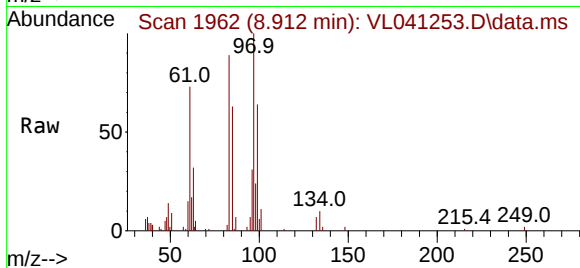
Ion Ratio Lower Upper

97 100

83 89.3 71.2 106.8

85 63.3 46.0 69.0

99 63.7 49.7 74.5



#48

Dibromochloromethane

Concen: 0.453 ppbv m

RT: 9.725 min Scan# 2215

Delta R.T. 0.000 min

Lab File: VL041253.D

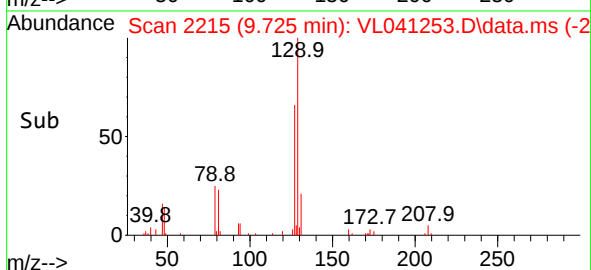
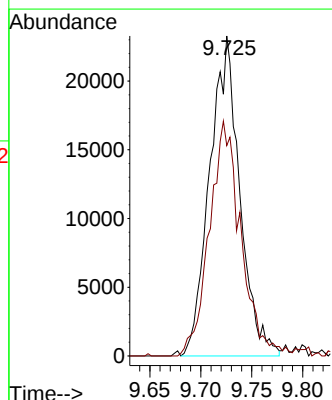
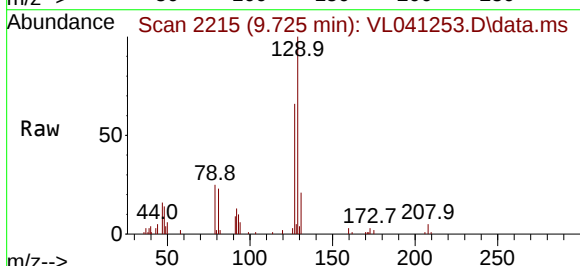
Acq: 9 May 2024 11:28

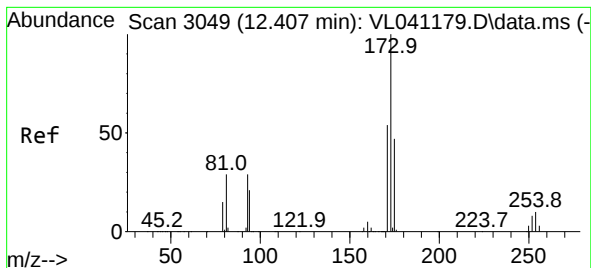
Tgt Ion: 129 Resp: 47783

Ion Ratio Lower Upper

129 100

127 77.3 39.1 117.5





#49

Bromoform

Concen: 0.396 ppbv

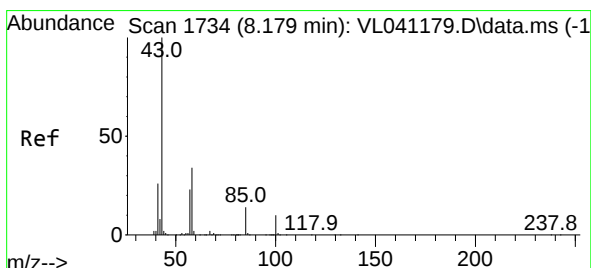
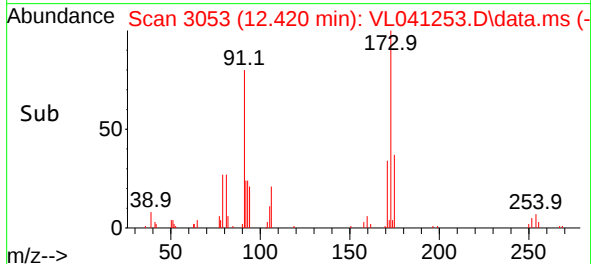
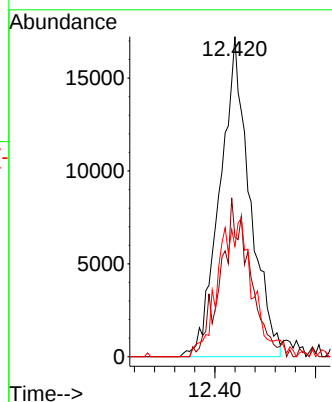
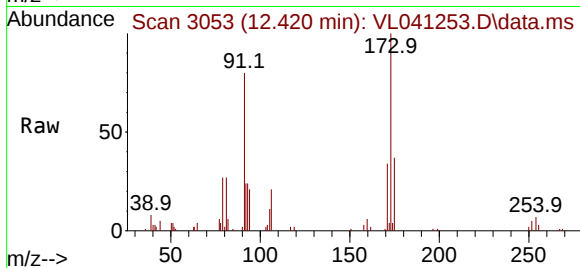
RT: 12.420 min Scan# 3053

Delta R.T. 0.000 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Tgt Ion:	173	Resp:	35552
Ion	Ratio	Lower	Upper
173	100		
175	48.8	39.8	59.8
171	50.4	41.8	62.8



#50

4-Methyl-2-Pentanone

Concen: 0.407 ppbv m

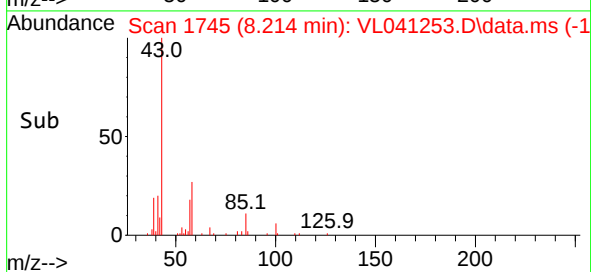
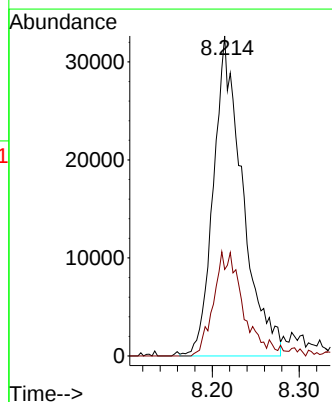
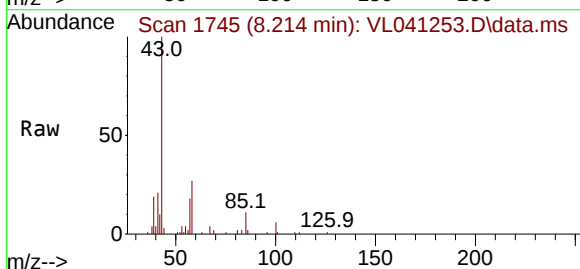
RT: 8.214 min Scan# 1745

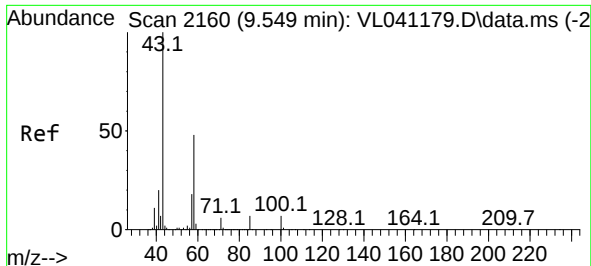
Delta R.T. 0.019 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

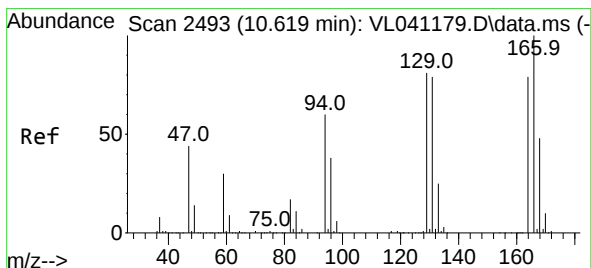
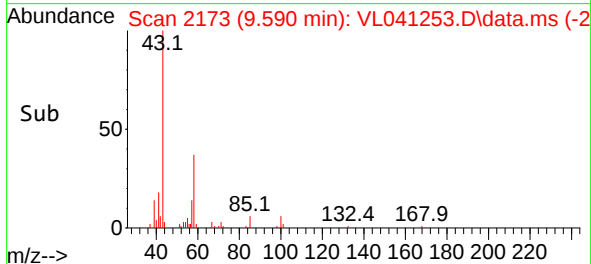
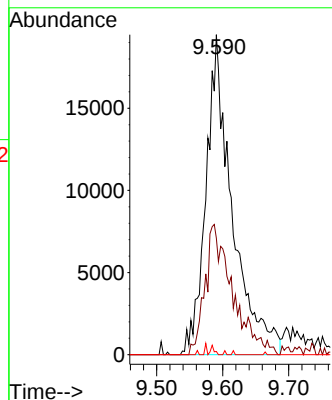
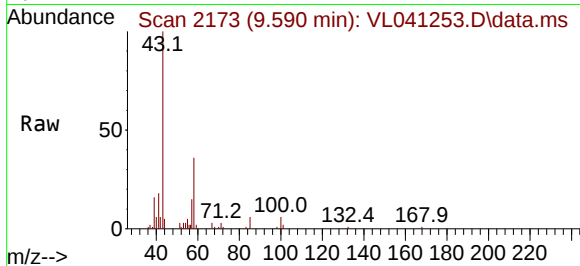
Tgt Ion:	43	Resp:	76006
Ion	Ratio	Lower	Upper
43	100		
58	33.0	27.7	41.5





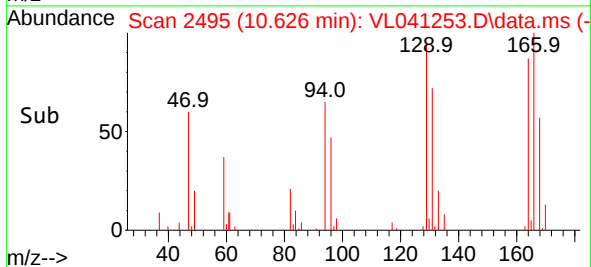
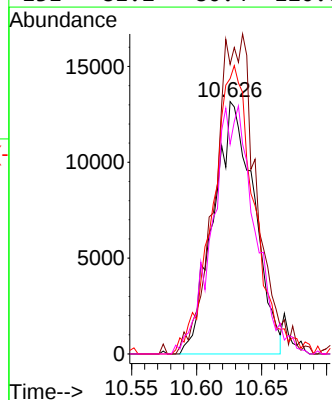
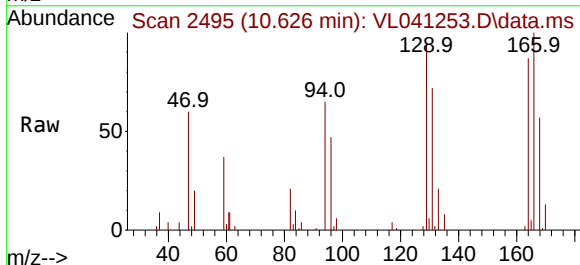
#51
2-Hexanone
Concen: 0.388 ppbv m
RT: 9.590 min Scan# 2173
Delta R.T. 0.026 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

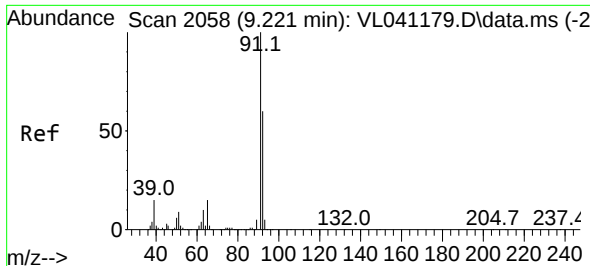
Tgt Ion: 43 Resp: 53820
Ion Ratio Lower Upper
43 100
58 42.8 38.4 57.6
98 0.6 0.0 0.0#



#52
Tetrachloroethene
Concen: 0.476 ppbv
RT: 10.626 min Scan# 2495
Delta R.T. -0.003 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

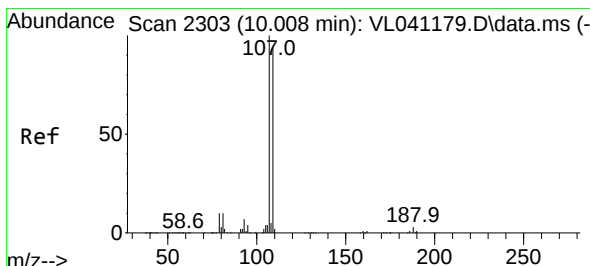
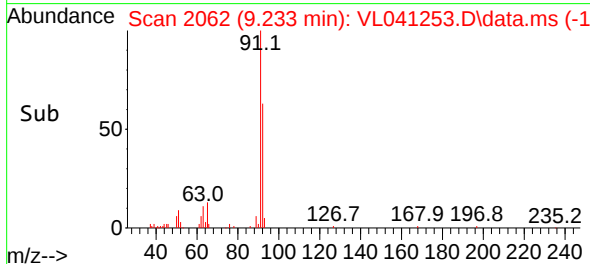
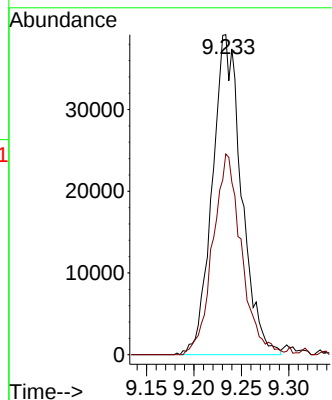
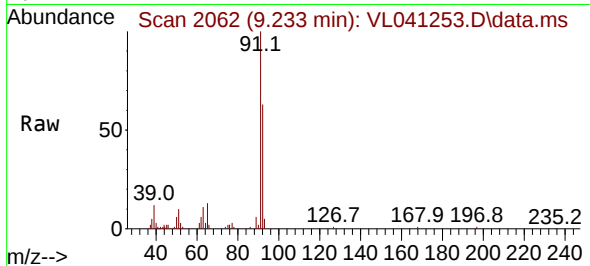
Tgt Ion: 164 Resp: 28734
Ion Ratio Lower Upper
164 100
166 112.1 101.1 151.7
129 102.7 81.7 122.5
131 81.2 80.4 120.6





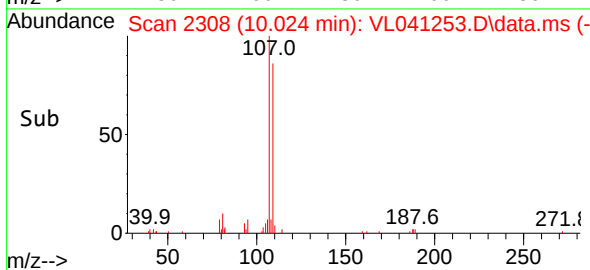
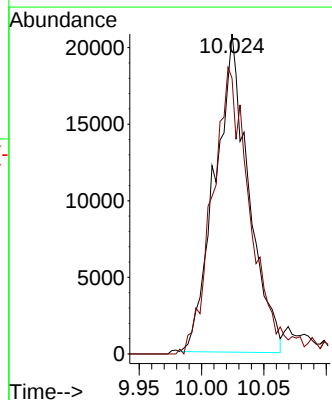
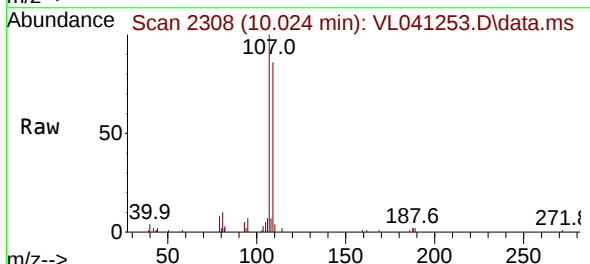
#53
Toluene
Concen: 0.422 ppbv m
RT: 9.233 min Scan# 2062
Delta R.T. 0.000 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

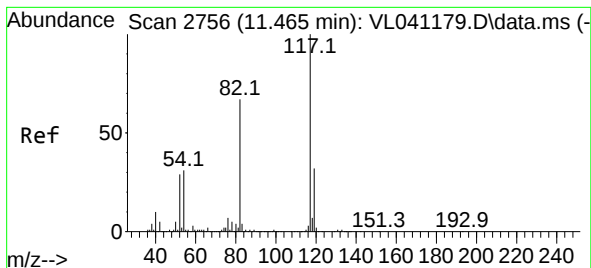
Tgt Ion: 91 Resp: 83929
Ion Ratio Lower Upper
91 100
92 61.9 48.2 72.4



#54
1,2-Dibromoethane
Concen: 0.436 ppbv
RT: 10.024 min Scan# 2308
Delta R.T. 0.003 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

Tgt Ion: 107 Resp: 39065
Ion Ratio Lower Upper
107 100
109 85.3 75.2 112.8





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.478 min Scan# 2760

Delta R.T. -0.003 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

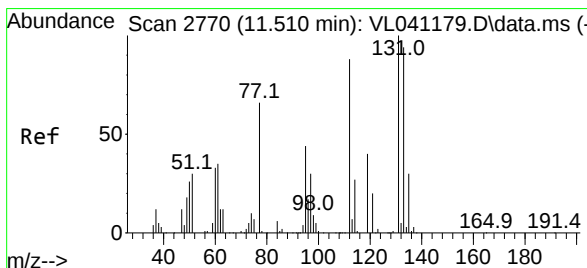
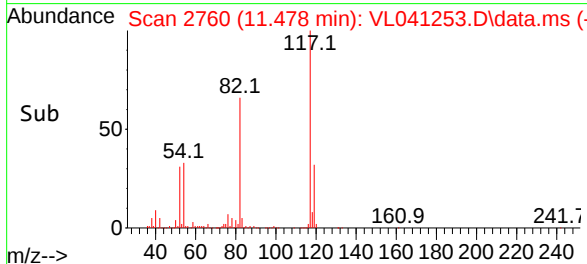
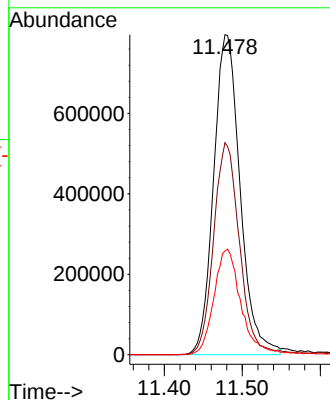
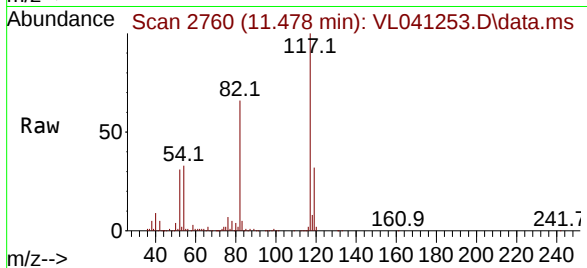
Tgt Ion:117 Resp: 1886193

Ion Ratio Lower Upper

117 100

82 64.9 53.6 80.4

119 34.0 27.2 40.8



#56

1,1,1,2-Tetrachloroethane

Concen: 0.490 ppbv

RT: 11.520 min Scan# 2773

Delta R.T. -0.003 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

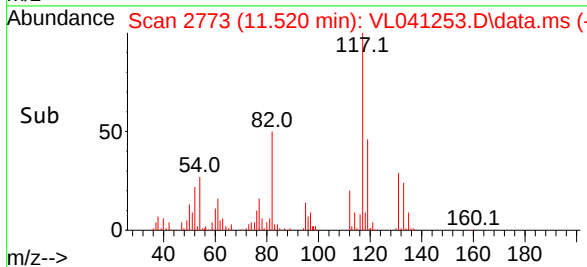
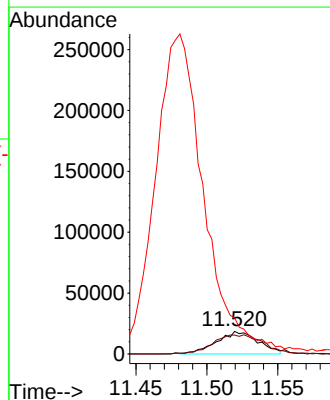
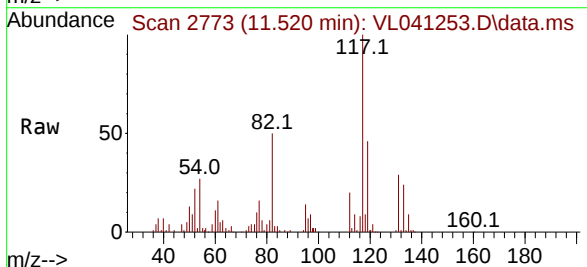
Tgt Ion:131 Resp: 37481

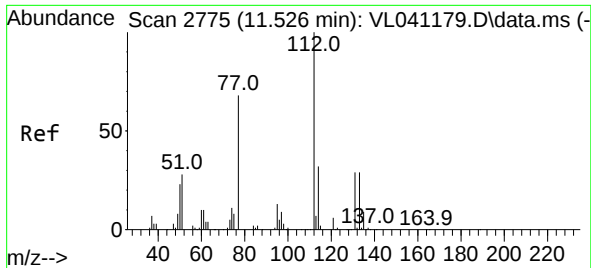
Ion Ratio Lower Upper

131 100

133 104.5 76.3 114.5

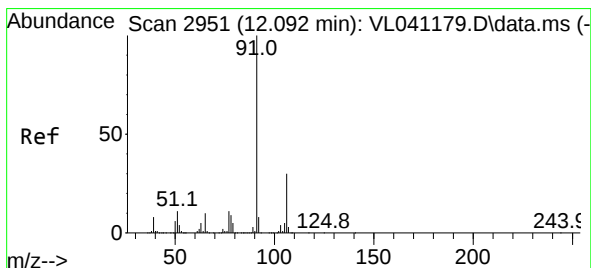
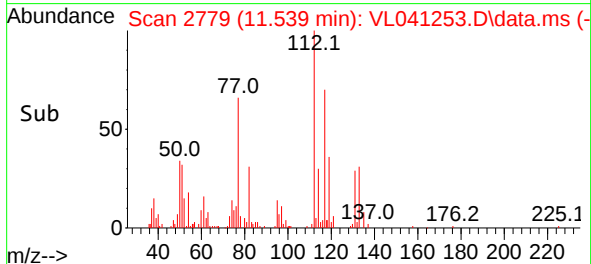
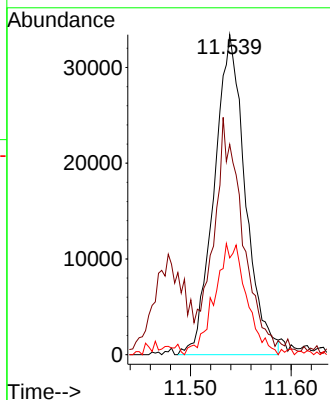
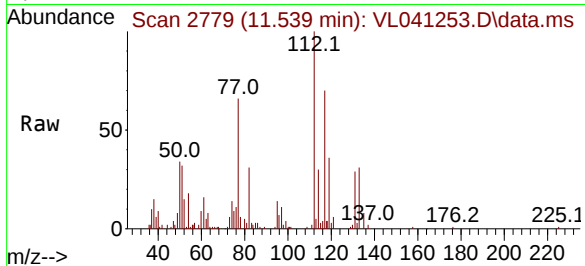
119 1710.4 49.4 74.2#





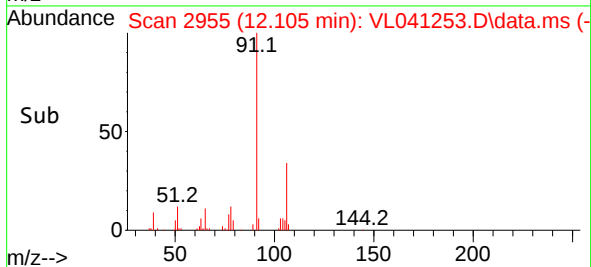
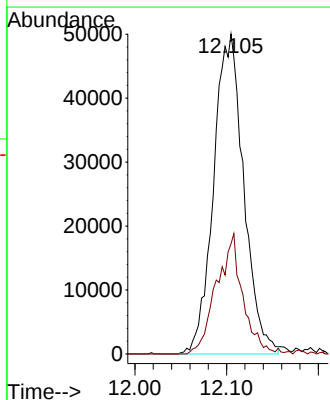
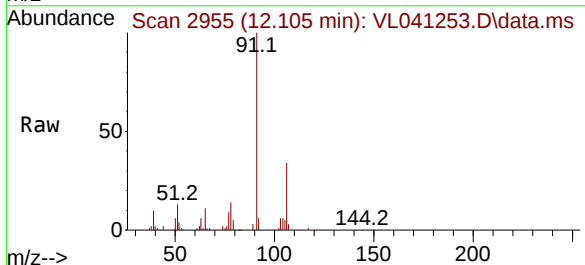
#57
Chlorobenzene
Concen: 0.521 ppbv
RT: 11.539 min Scan# 2779
Delta R.T. -0.003 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

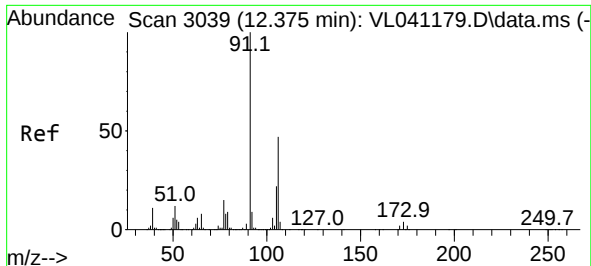
Tgt Ion:	112	Resp:	72022
Ion Ratio	Lower	Upper	
112	100		
77	61.3	54.9	82.3
114	30.2	28.7	35.1



#58
Ethyl Benzene
Concen: 0.441 ppbv
RT: 12.105 min Scan# 2955
Delta R.T. 0.003 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

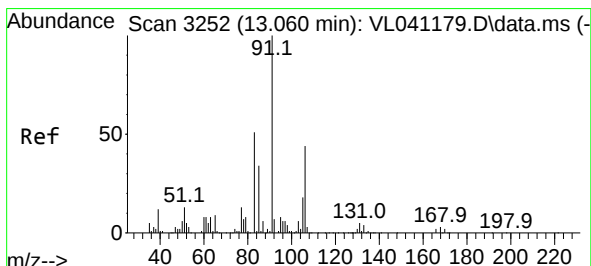
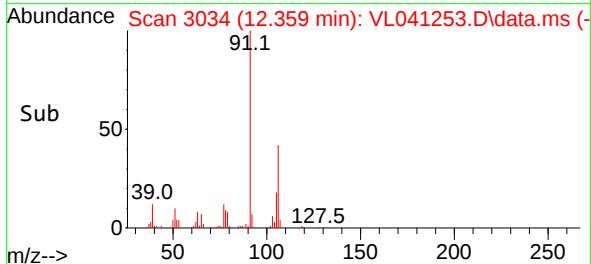
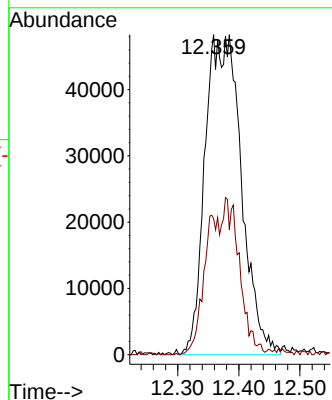
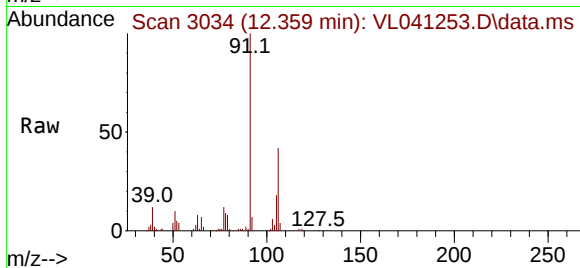
Tgt Ion:	91	Resp:	114105
Ion Ratio	Lower	Upper	
91	100		
106	34.4	24.3	36.5





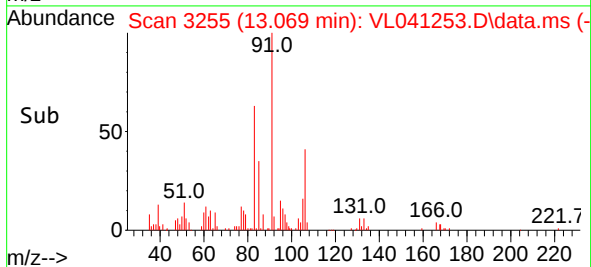
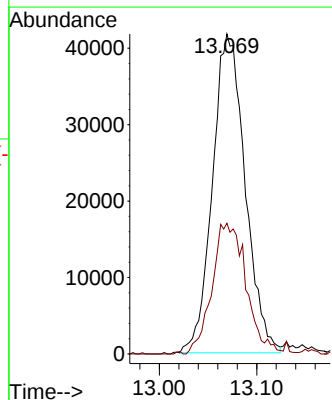
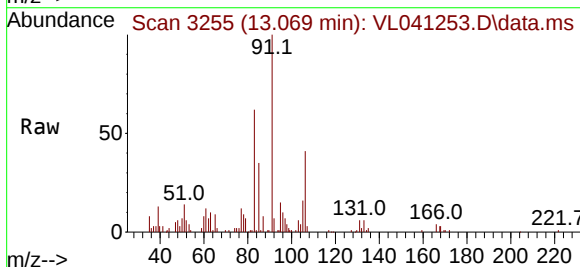
#59
m/p-Xylene
Concen: 0.914 ppbv m
RT: 12.359 min Scan# 3034
Delta R.T. -0.026 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

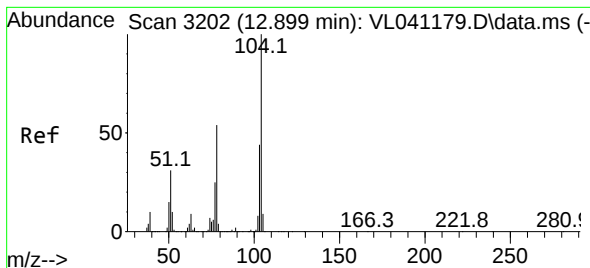
Tgt Ion: 91 Resp: 198635
Ion Ratio Lower Upper
91 100
106 43.9 35.7 53.5



#60
o-Xylene
Concen: 0.476 ppbv
RT: 13.069 min Scan# 3255
Delta R.T. 0.000 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

Tgt Ion: 91 Resp: 96953
Ion Ratio Lower Upper
91 100
106 43.4 22.4 67.3





#61

Styrene

Concen: 0.393 ppbv m

RT: 12.918 min Scan# 3208

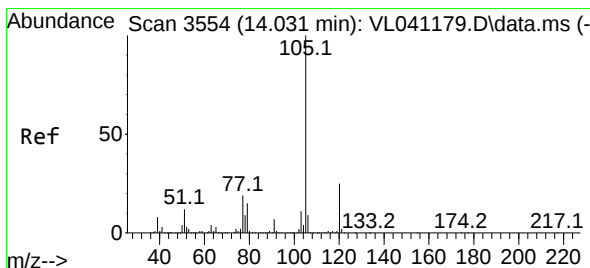
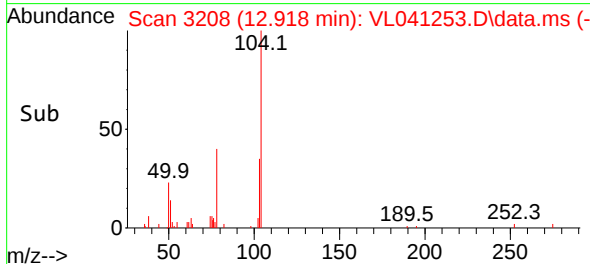
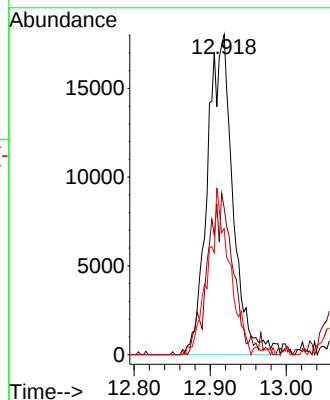
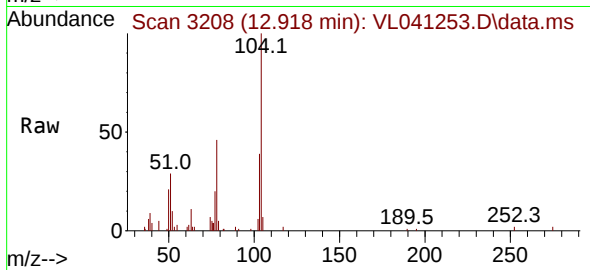
Delta R.T. 0.010 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Tgt Ion:104 Resp: 42293

Ion	Ratio	Lower	Upper
104	100		
78	0.0	42.6	63.8#
103	44.5	38.4	57.6



#62

Isopropylbenzene

Concen: 0.475 ppbv

RT: 14.044 min Scan# 3558

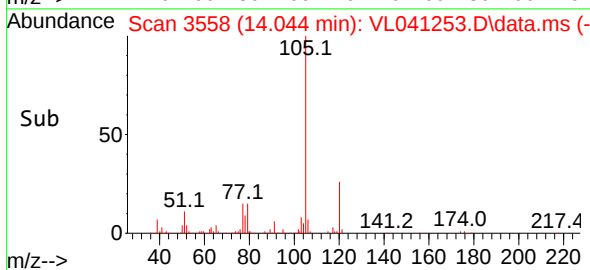
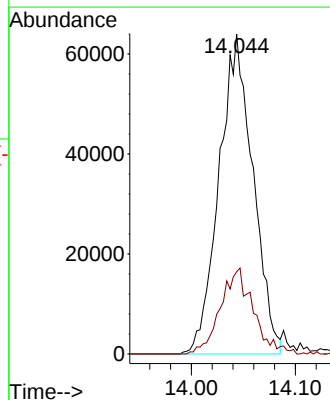
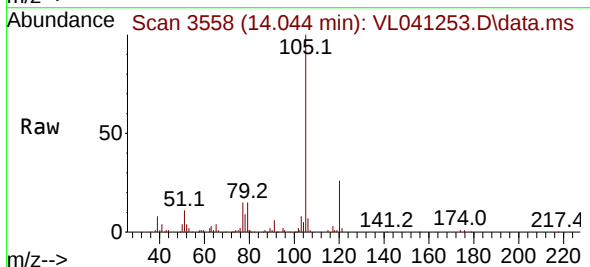
Delta R.T. 0.000 min

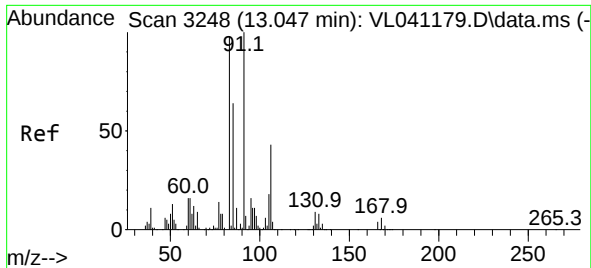
Lab File: VL041253.D

Acq: 9 May 2024 11:28

Tgt Ion:105 Resp: 144680

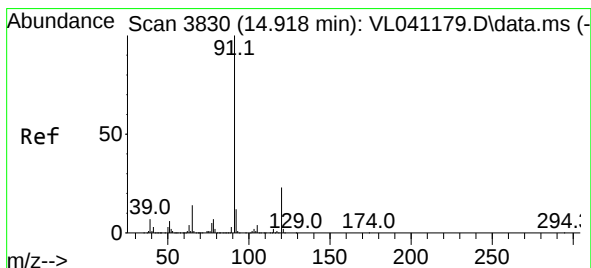
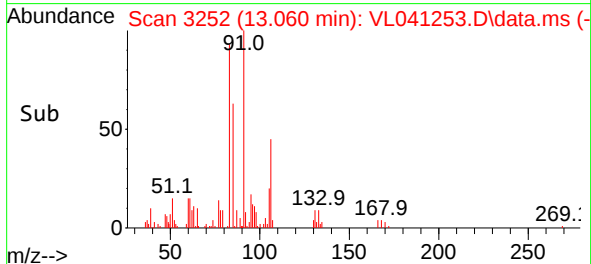
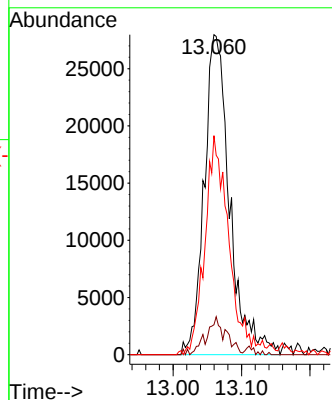
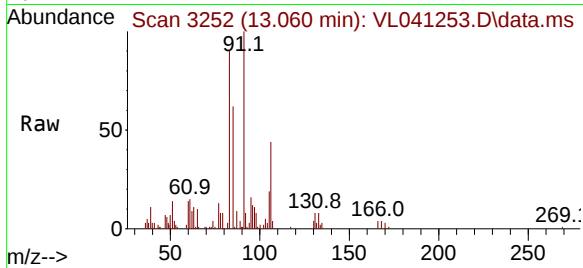
Ion	Ratio	Lower	Upper
105	100		
120	26.1	20.2	30.2





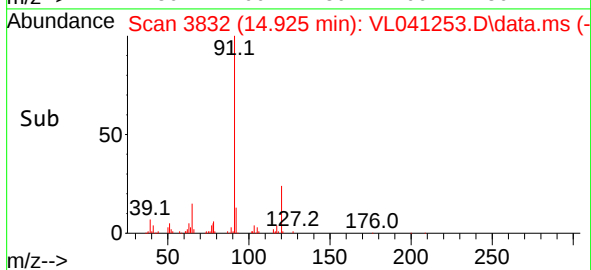
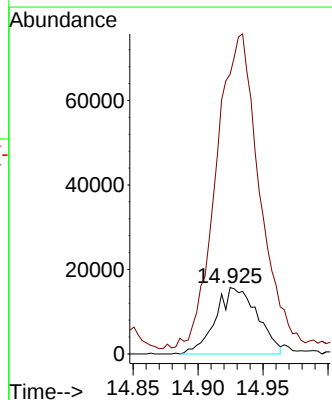
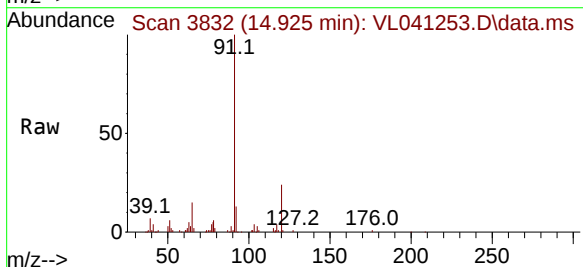
#63
1,1,2,2-Tetrachloroethane
Concen: 0.520 ppbv m
RT: 13.060 min Scan# 3252
Delta R.T. 0.000 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

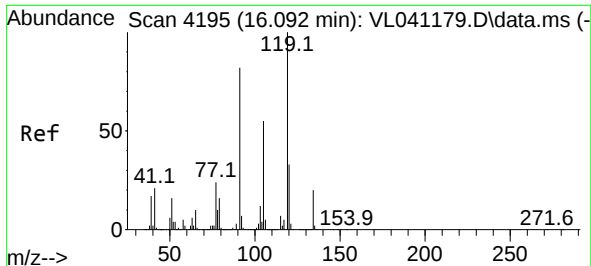
Tgt Ion: 83 Resp: 72281
Ion Ratio Lower Upper
83 100
131 10.3 4.5 13.5
85 67.4 32.7 98.1



#64
n-propylbenzene
Concen: 0.463 ppbv
RT: 14.925 min Scan# 3832
Delta R.T. -0.006 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

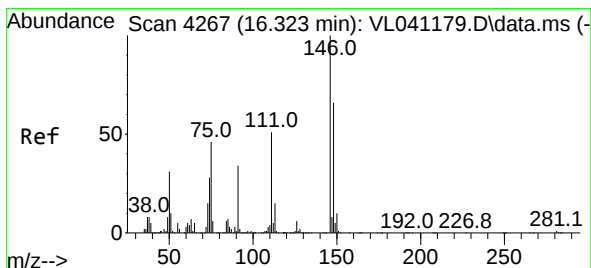
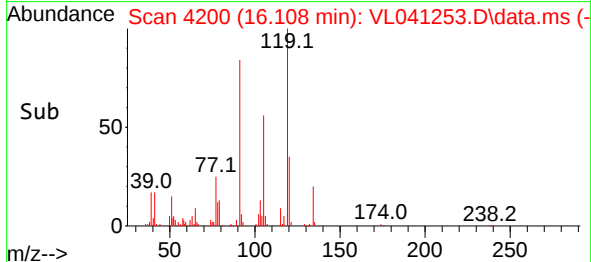
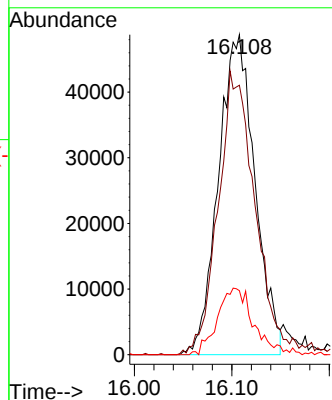
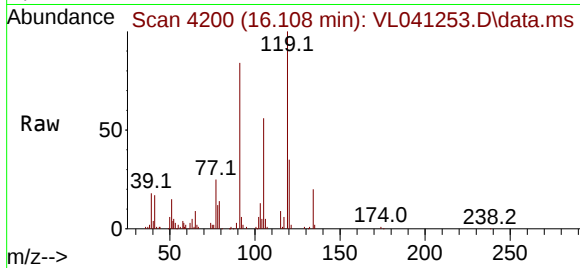
Tgt Ion: 120 Resp: 35177
Ion Ratio Lower Upper
120 100
91 522.1 384.8 577.2





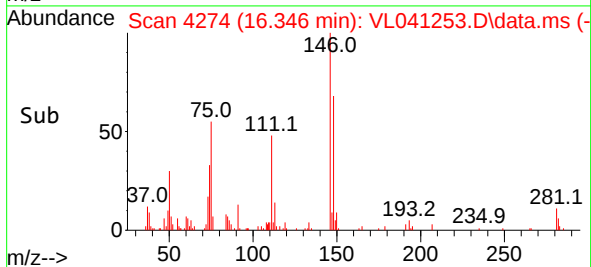
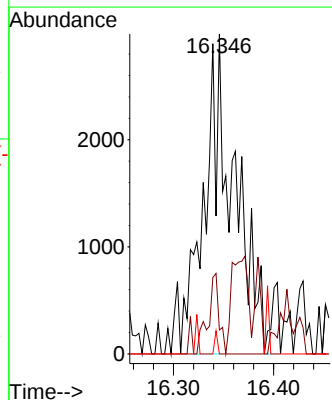
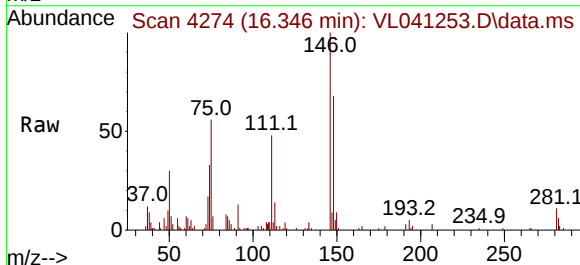
#65
tert-Butylbenzene
Concen: 0.465 ppbv
RT: 16.108 min Scan# 4200
Delta R.T. 0.007 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

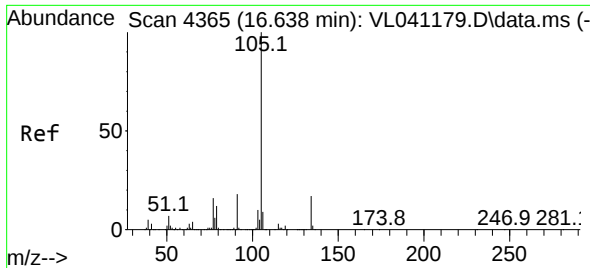
Tgt Ion: 119 Resp: 126861
Ion Ratio Lower Upper
119 100
91 89.9 67.0 100.4
134 20.9 15.2 22.8



#66
Benzyl Chloride
Concen: 0.210 ppbv m
RT: 16.346 min Scan# 4274
Delta R.T. 0.000 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

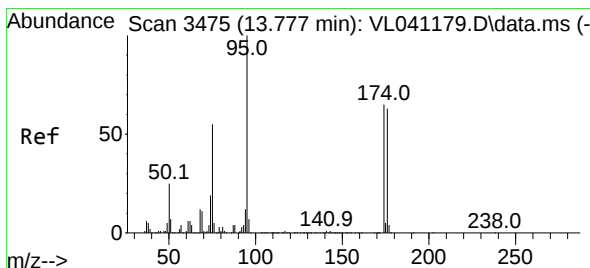
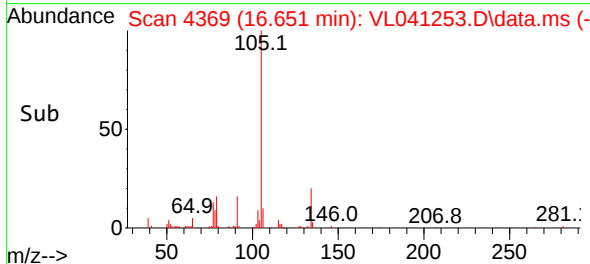
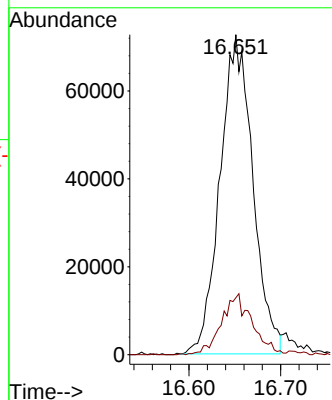
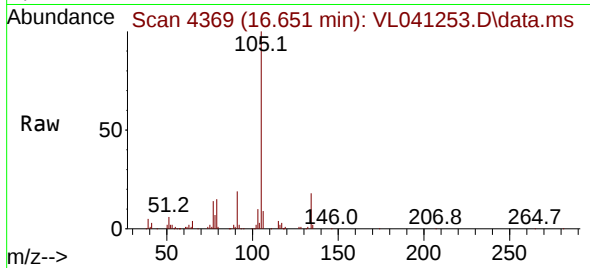
Tgt Ion: 91 Resp: 6474
Ion Ratio Lower Upper
91 100
126 0.0 14.6 21.8#
128 0.0 4.7 7.1#





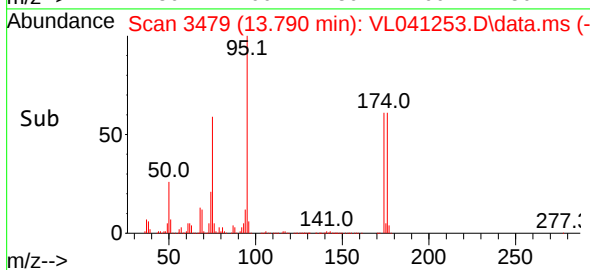
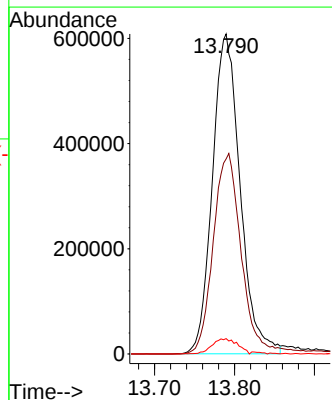
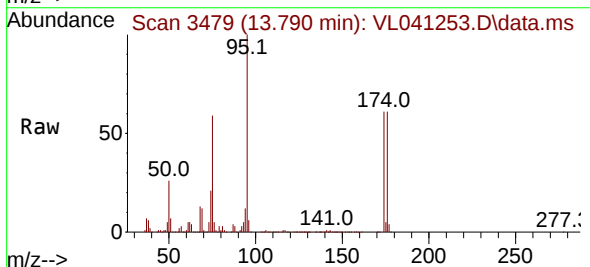
#67
 sec-Butylbenzene
 Concen: 0.469 ppbv
 RT: 16.651 min Scan# 4369
 Delta R.T. 0.003 min
 Lab File: VL041253.D
 Acq: 9 May 2024 11:28

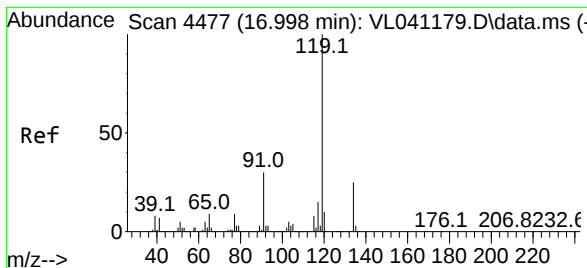
Tgt Ion:105 Resp: 180409
 Ion Ratio Lower Upper
 105 100
 134 18.3 13.8 20.8



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.279 ppbv
 RT: 13.790 min Scan# 3479
 Delta R.T. 0.003 min
 Lab File: VL041253.D
 Acq: 9 May 2024 11:28

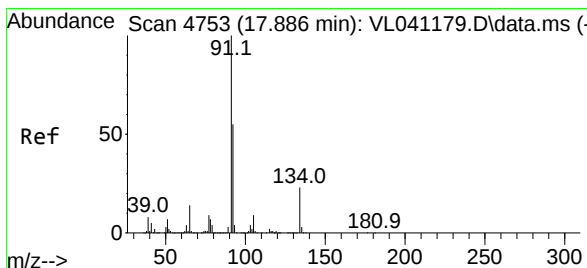
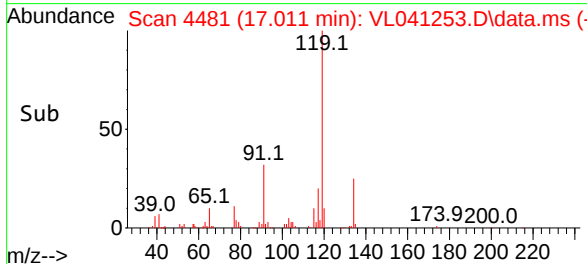
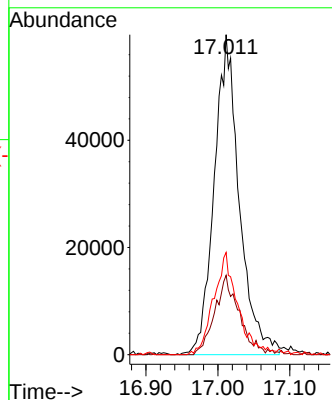
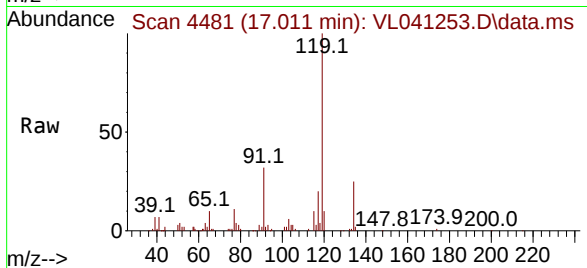
Tgt Ion: 95 Resp: 1463725
 Ion Ratio Lower Upper
 95 100
 174 65.5 53.6 80.4
 175 4.7 4.2 6.4





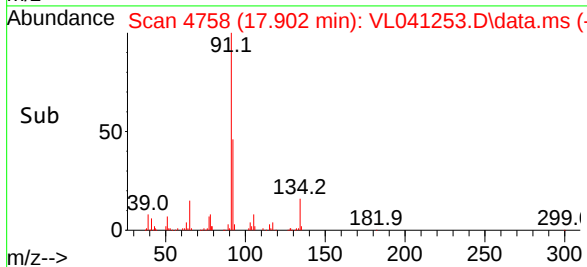
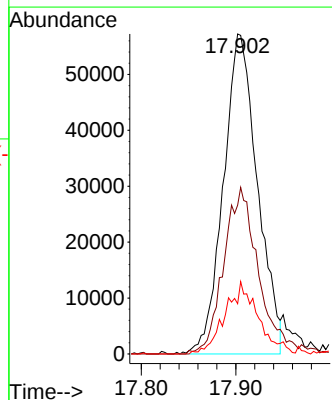
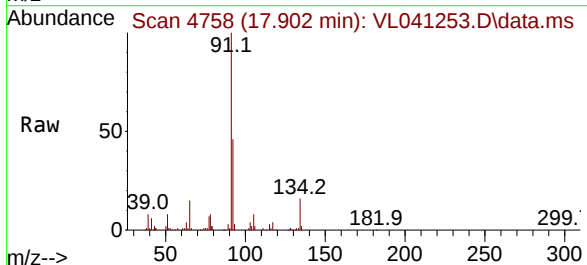
#69
p-Isopropyltoluene
Concen: 0.457 ppbv m
RT: 17.011 min Scan# 4481
Delta R.T. 0.003 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

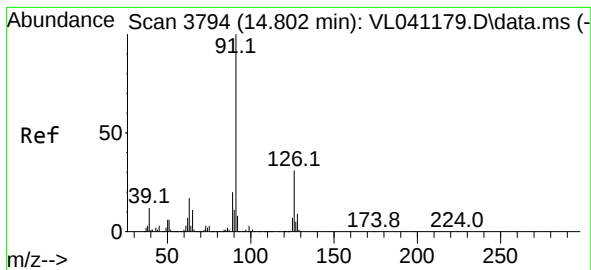
Tgt Ion: 119 Resp: 144802
Ion Ratio Lower Upper
119 100
134 0.0 20.1 30.1#
91 0.0 24.2 36.2#



#70
n-Butylbenzene
Concen: 0.433 ppbv
RT: 17.902 min Scan# 4758
Delta R.T. 0.003 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

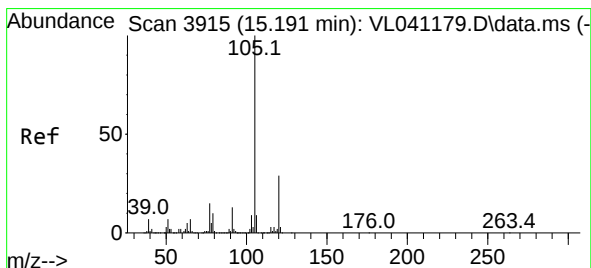
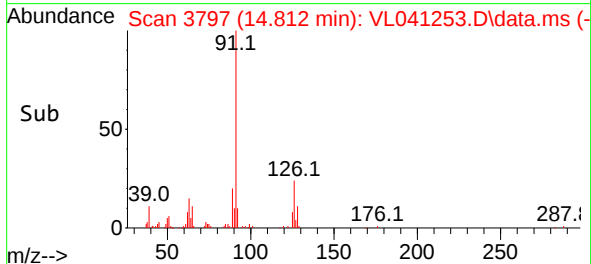
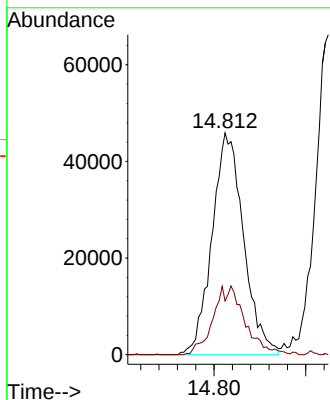
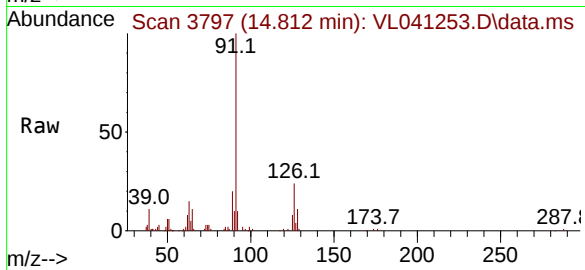
Tgt Ion: 91 Resp: 143240
Ion Ratio Lower Upper
91 100
92 54.4 43.3 64.9
134 22.5 17.8 26.8





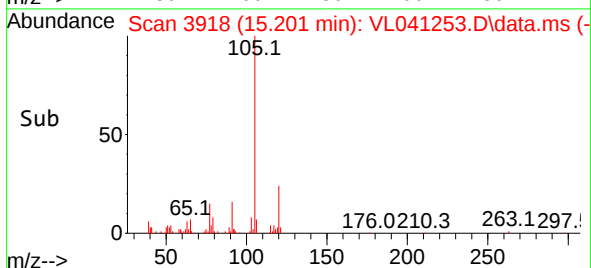
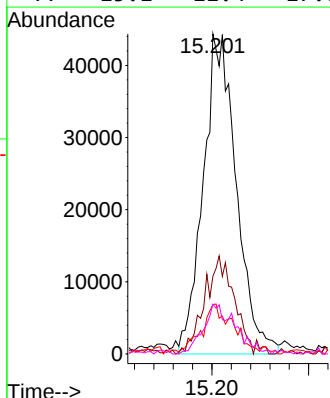
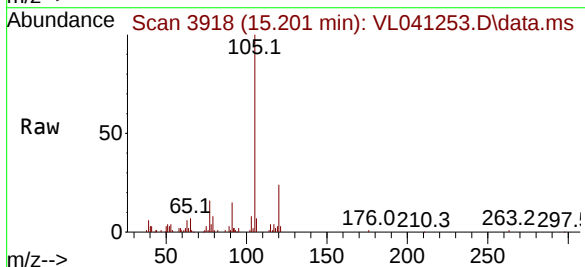
#71
2-Chlorotoluene
Concen: 0.473 ppbv
RT: 14.812 min Scan# 3797
Delta R.T. 0.000 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

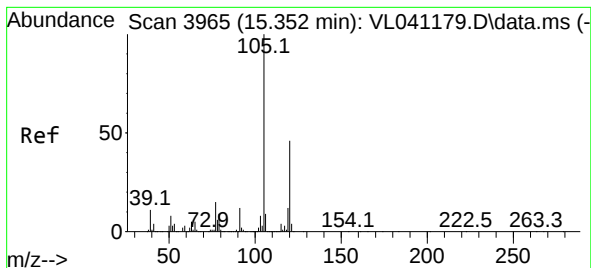
Tgt Ion: 91 Resp: 109816
Ion Ratio Lower Upper
91 100
126 31.3 12.2 48.8



#72
4-Ethyltoluene
Concen: 0.457 ppbv m
RT: 15.201 min Scan# 3918
Delta R.T. -0.006 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

Tgt Ion: 105 Resp: 105411
Ion Ratio Lower Upper
105 100
120 0.0 24.7 37.1#
91 0.0 10.3 15.5#
77 15.1 11.4 17.0





#73

1,3,5-Trimethylbenzene

Concen: 0.470 ppbv m

RT: 15.362 min Scan# 3968

Delta R.T. -0.003 min

Lab File: VL041253.D

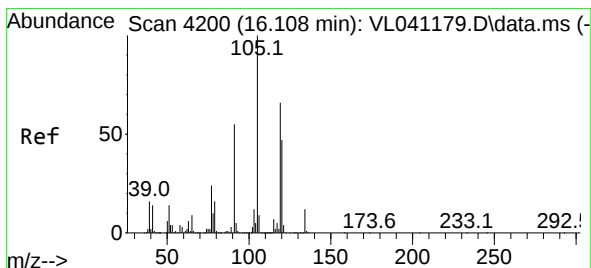
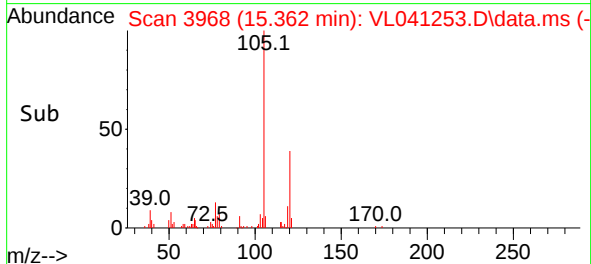
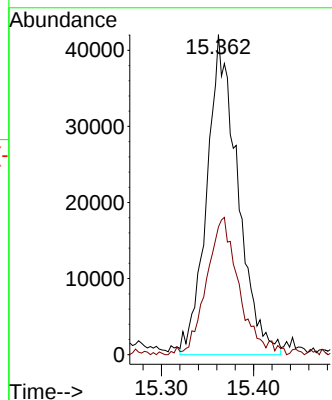
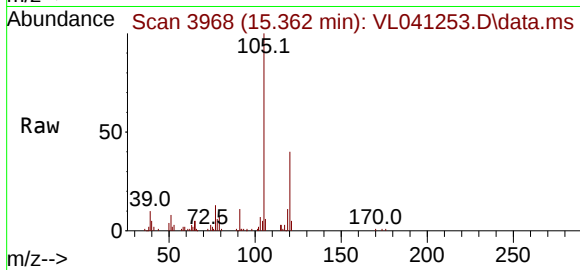
Acq: 9 May 2024 11:28

Tgt Ion:105 Resp: 98069

Ion Ratio Lower Upper

105 100

120 39.9 37.0 55.4



#74

1,2,4-Trimethylbenzene

Concen: 0.465 ppbv m

RT: 16.121 min Scan# 4204

Delta R.T. 0.000 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Tgt Ion:105 Resp: 106129

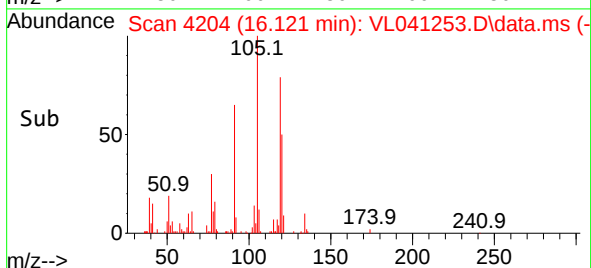
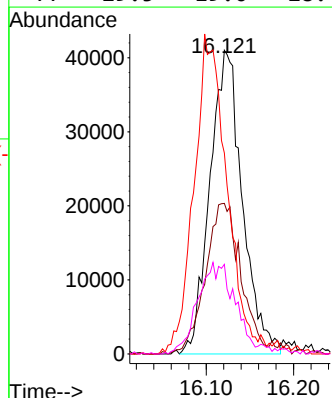
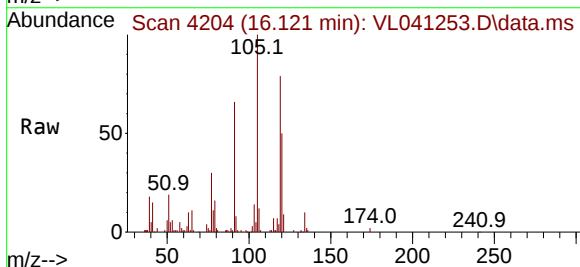
Ion Ratio Lower Upper

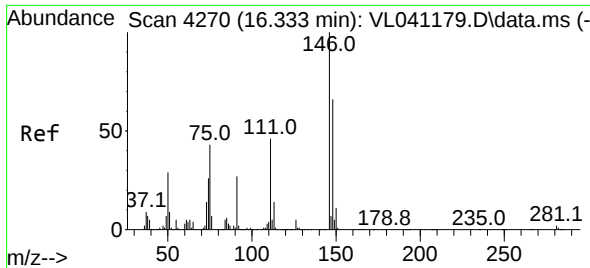
105 100

120 49.6 37.8 56.6

91 66.2 44.3 66.5

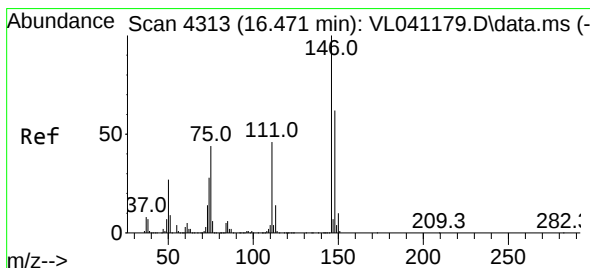
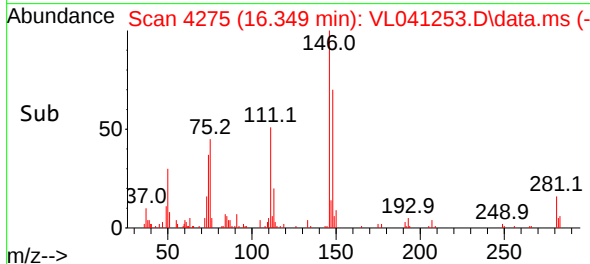
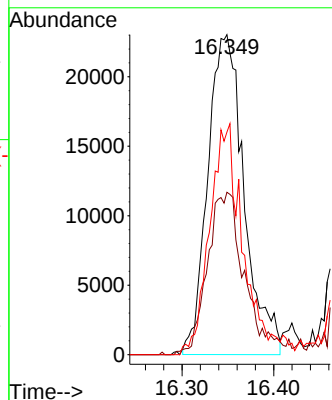
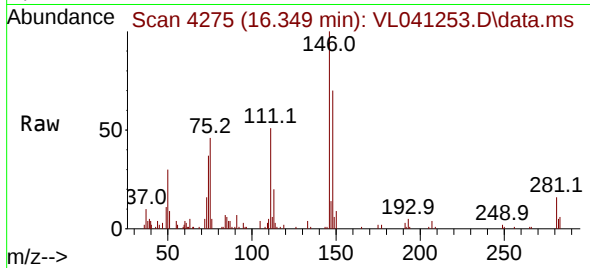
77 29.5 19.0 28.4#





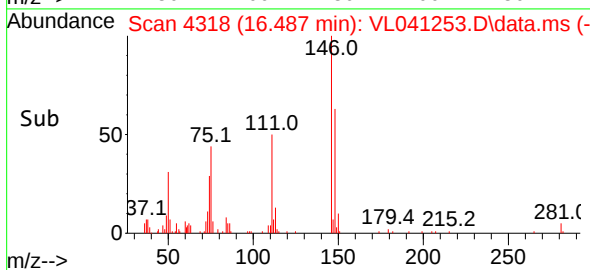
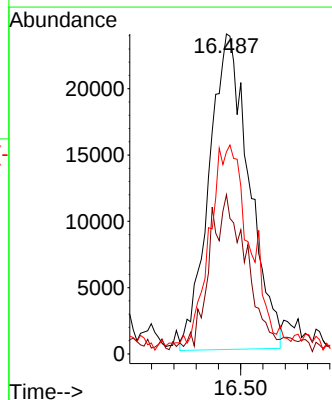
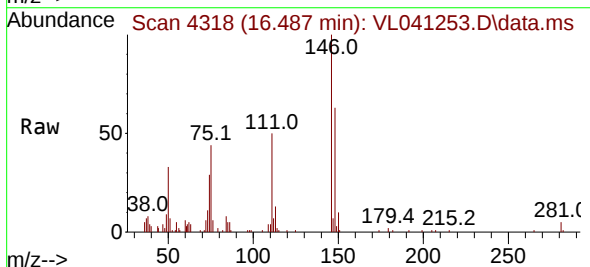
#75
1,3-Dichlorobenzene
Concen: 0.485 ppbv m
RT: 16.349 min Scan# 4275
Delta R.T. 0.007 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

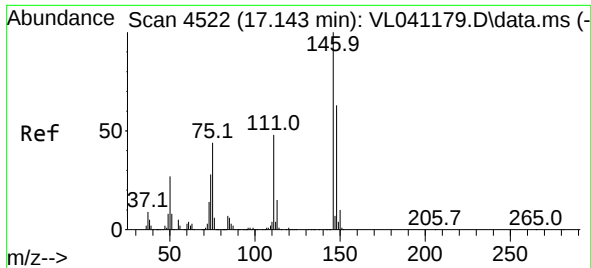
Tgt Ion:146 Resp: 63419
Ion Ratio Lower Upper
146 100
111 53.0 23.7 71.1
148 66.4 32.5 97.4



#76
1,4-Dichlorobenzene
Concen: 0.472 ppbv
RT: 16.487 min Scan# 4318
Delta R.T. 0.003 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

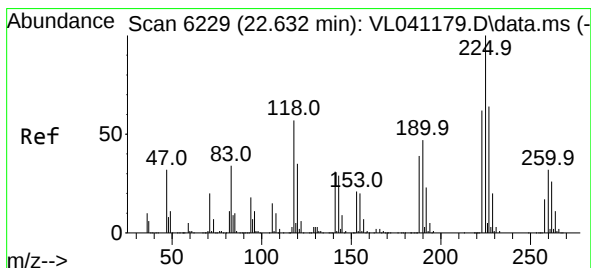
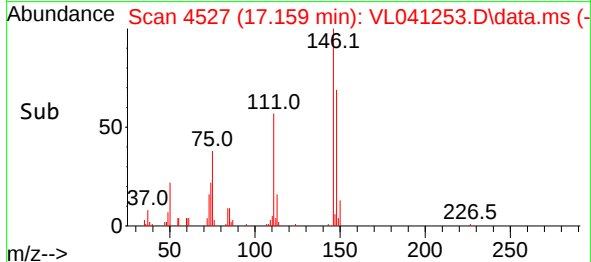
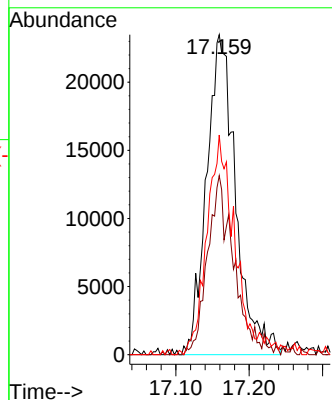
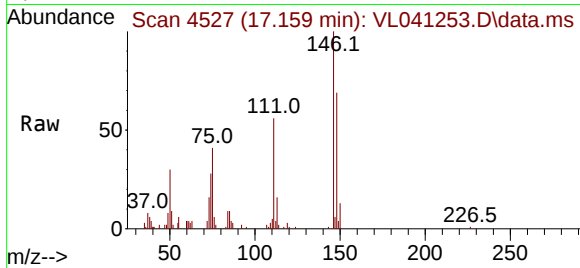
Tgt Ion:146 Resp: 59423
Ion Ratio Lower Upper
146 100
111 53.8 23.3 69.8
148 70.7 32.6 97.7





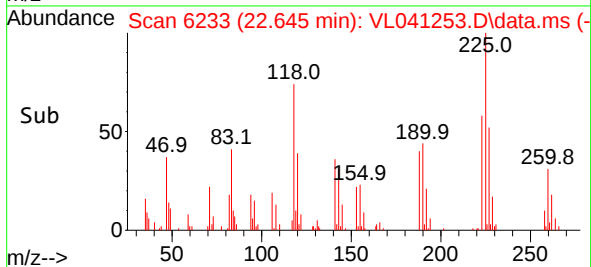
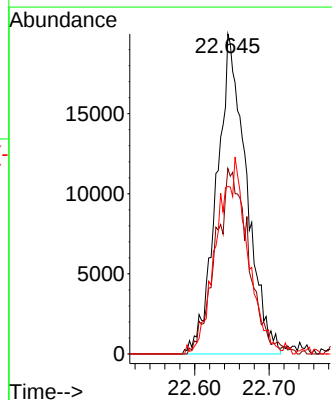
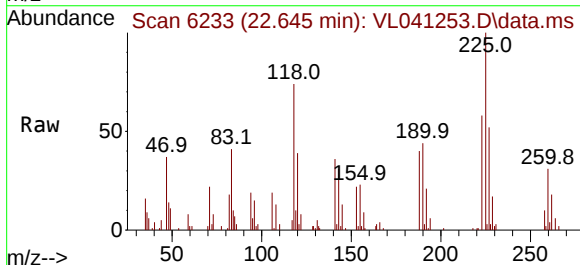
#77
1,2-Dichlorobenzene
Concen: 0.493 ppbv m
RT: 17.159 min Scan# 4527
Delta R.T. 0.000 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

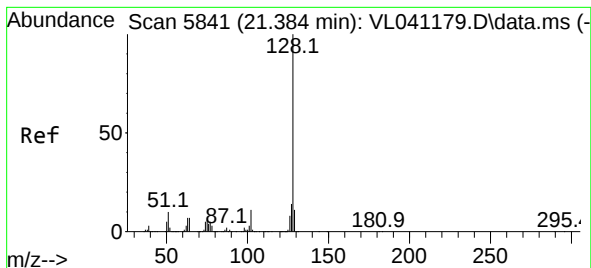
Tgt Ion:146 Resp: 64504
Ion Ratio Lower Upper
146 100
111 51.1 24.5 73.5
148 68.8 32.6 98.0



#78
Hexachloro-1,3-Butadiene
Concen: 0.477 ppbv m
RT: 22.645 min Scan# 6233
Delta R.T. -0.003 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

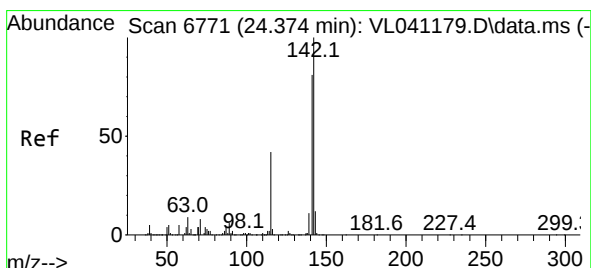
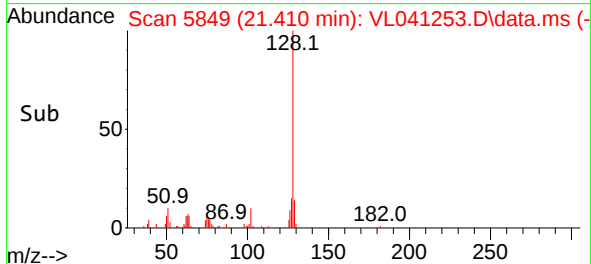
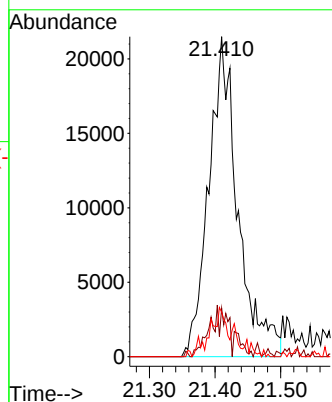
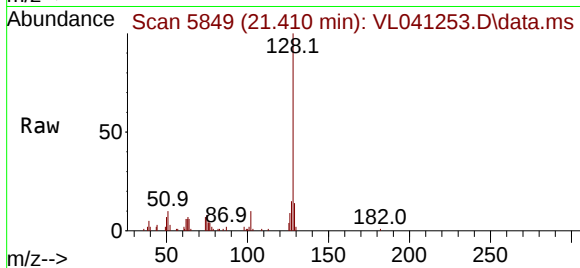
Tgt Ion:225 Resp: 55367
Ion Ratio Lower Upper
225 100
223 65.0 50.9 76.3
227 65.2 52.0 78.0





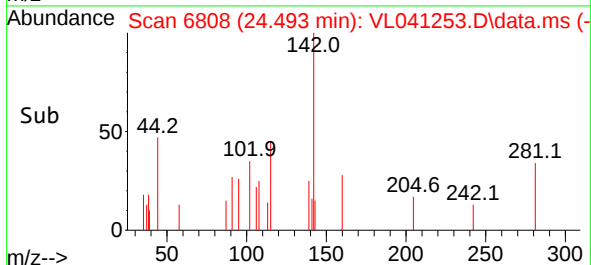
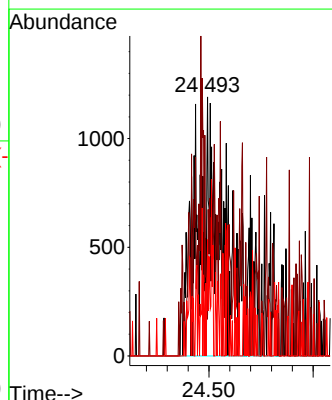
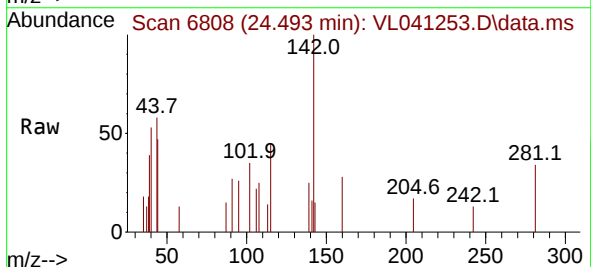
#79
Naphthalene
Concen: 0.304 ppbv m
RT: 21.410 min Scan# 5849
Delta R.T. 0.010 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

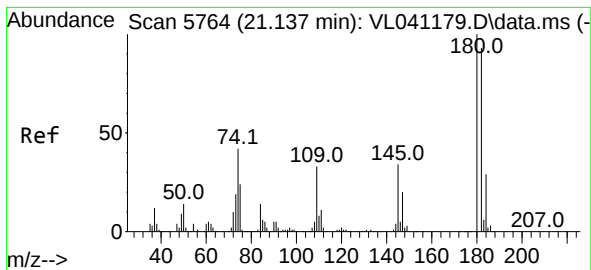
Tgt Ion:128 Resp: 65976
Ion Ratio Lower Upper
128 100
127 15.2 10.8 16.2
129 13.9 8.9 13.3#



#80
Naphthalene,2-methyl-
Concen: 0.131 ppbv m
RT: 24.493 min Scan# 6808
Delta R.T. 0.106 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

Tgt Ion:142 Resp: 11472
Ion Ratio Lower Upper
142 100
141 15.2 67.9 101.9#
115 6.7 31.4 47.0#





#81

1,2,4-Trichlorobenzene

Concen: 0.335 ppbv m

RT: 21.162 min Scan# 5772

Delta R.T. 0.010 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

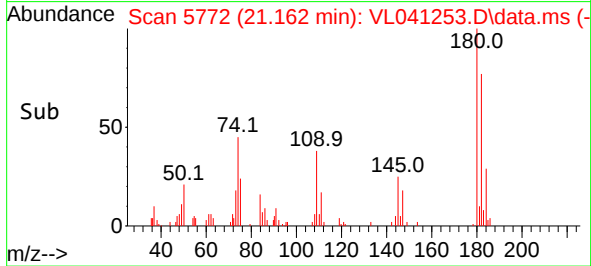
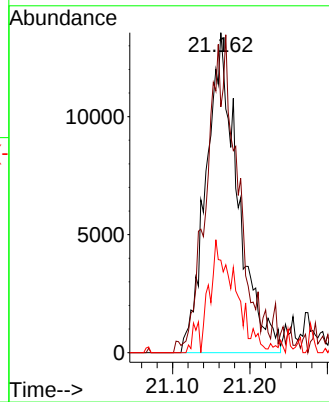
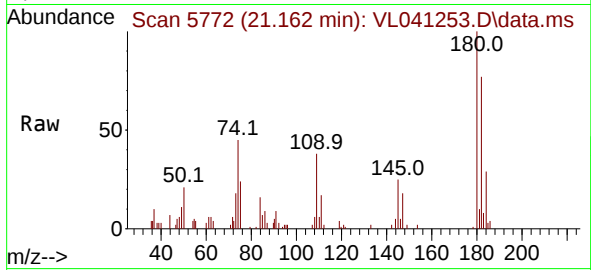
Tgt Ion:180 Resp: 38423

Ion Ratio Lower Upper

180 100

182 102.9 77.2 115.8

184 31.3 24.6 36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050924\
 Data File : VL041254.D
 Acq On : 9 May 2024 12:07
 Operator : SY/MD
 Sample : P2403-15 MDL 0.40
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 10 01:26:06 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

QLast Update : Fri May 10 01:23:08 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.208	49	746047	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.667	114	2055920	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.481	117	1891052	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.789	95	1447270	10.137	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.754	85	63797	0.632	ppbv	99
3) Chlorodifluoromethane	2.700	51	55424	0.489	ppbv	98
4) Chloromethane	2.835	50	21587	0.486	ppbv #	85
5) Vinyl Chloride	2.941	62	19006	0.426	ppbv	94
6) Bromomethane	3.140	94	8542m	0.524	ppbv	
7) Chloroethane	3.217	64	7681m	0.487	ppbv	
8) Dichlorotetrafluoroethane	2.880	85	47577	0.455	ppbv	95
9) Propene	2.716	41	21095	0.476	ppbv	97
10) Heptane	7.593	43	44431m	0.414	ppbv	
11) Trichlorofluoromethane	3.584	101	49669	0.484	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.086	101	36157	0.477	ppbv	93
13) Ethanol	3.282	45	4728m	0.476	ppbv	
14) Bromoethene	3.388	108	13242	0.423	ppbv #	89
15) Acetone	3.507	43	45307	0.515	ppbv #	88
16) 1,3-Butadiene	3.005	39	19194m	0.432	ppbv	
17) tert-Butyl alcohol	3.915	59	33333m	0.351	ppbv	
18) 1,1-Dichloroethene	3.902	96	16625m	0.492	ppbv	
19) Isopropyl Alcohol	3.626	45	23141m	0.401	ppbv	
20) Methylene Chloride	3.954	84	16337	0.534	ppbv #	81
21) Allyl Chloride	4.018	41	23273m	0.405	ppbv	
22) trans-1,2-Dichloroethene	4.471	96	15758	0.448	ppbv #	74
23) Vinyl Acetate	4.651	43	36702m	0.379	ppbv	
24) 1,1-Dichloroethane	4.584	63	32417	0.430	ppbv #	94
25) Ethyl Acetate	5.230	43	72347m	0.412	ppbv	
26) Hexane	5.233	57	32119m	0.410	ppbv	
27) Carbon Disulfide	4.147	76	36211	0.390	ppbv #	71
28) Methyl tert-Butyl Ether	4.623	73	25176m	0.403	ppbv	
29) Chloroform	5.295	83	53592	0.495	ppbv	87
30) Cyclohexane	6.619	84	28045m	0.452	ppbv	
31) cis-1,2-Dichloroethene	5.095	61	29191	0.398	ppbv	94
32) 1,1,1-Trichloroethane	6.024	97	47334m	0.438	ppbv	
34) 2-Butanone	4.819	43	40234m	0.384	ppbv	
35) Carbon Tetrachloride	6.510	117	47371m	0.411	ppbv	
36) Benzene	6.388	78	67652	0.392	ppbv	95
37) 1,2-Dichloroethane	5.828	62	41046m	0.456	ppbv	
38) Trichloroethene	7.304	130	26488	0.412	ppbv	97
39) 1,2-Dichloropropane	7.089	63	27428m	0.413	ppbv	
40) 1,4-Dioxane	7.346	88	8620m	0.363	ppbv	
41) Tetrahydrofuran	5.600	42	27419m	0.362	ppbv	
42) Bromodichloromethane	7.266	83	51056	0.395	ppbv #	86
43) Methyl Methacrylate	7.497	69	23684	0.339	ppbv	99
44) 2,2,4-Trimethylpentane	7.339	57	105748	0.355	ppbv	92
45) t-1,3-Dichloropropene	8.722	75	12979m	0.257	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050924\
 Data File : VL041254.D
 Acq On : 9 May 2024 12:07
 Operator : SY/MD
 Sample : P2403-15 MDL 0.40
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 10 01:26:06 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

QLast Update : Fri May 10 01:23:08 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.163	75	21596m	0.349	ppbv	
47) 1,1,2-Trichloroethane	8.909	97	30639m	0.460	ppbv	
48) Dibromochloromethane	9.728	129	40647	0.383	ppbv	96
49) Bromoform	12.420	173	29955m	0.332	ppbv	
50) 4-Methyl-2-Pentanone	8.214	43	73281m	0.390	ppbv	
51) 2-Hexanone	9.590	43	49414m	0.355	ppbv	
52) Tetrachloroethene	10.629	164	25058	0.413	ppbv	93
53) Toluene	9.237	91	72204	0.361	ppbv	96
54) 1,2-Dibromoethane	10.024	107	34293	0.380	ppbv	94
56) 1,1,1,2-Tetrachloroethane	11.523	131	34177m	0.446	ppbv	
57) Chlorobenzene	11.539	112	59154	0.427	ppbv #	97
58) Ethyl Benzene	12.101	91	94793	0.366	ppbv	98
59) m/p-Xylene	12.381	91	170653m	0.783	ppbv	
60) o-Xylene	13.072	91	82411m	0.403	ppbv	
61) Styrene	12.912	104	34332m	0.318	ppbv	
62) Isopropylbenzene	14.040	105	124979	0.409	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.060	83	63985m	0.460	ppbv	
64) n-propylbenzene	14.934	120	32067m	0.421	ppbv	
65) tert-Butylbenzene	16.098	119	112512m	0.411	ppbv	
66) Benzyl Chloride	16.355	91	6045m	0.195	ppbv	
67) sec-Butylbenzene	16.651	105	158060m	0.410	ppbv	
69) p-Isopropyltoluene	17.008	119	124379m	0.392	ppbv	
70) n-Butylbenzene	17.902	91	119642	0.361	ppbv	99
71) 2-Chlorotoluene	14.818	91	97886m	0.421	ppbv	
72) 4-Ethyltoluene	15.211	105	94766m	0.410	ppbv	
73) 1,3,5-Trimethylbenzene	15.365	105	81842m	0.391	ppbv	
74) 1,2,4-Trimethylbenzene	16.120	105	92058m	0.403	ppbv	
75) 1,3-Dichlorobenzene	16.349	146	55092m	0.420	ppbv	
76) 1,4-Dichlorobenzene	16.487	146	53651m	0.426	ppbv	
77) 1,2-Dichlorobenzene	17.153	146	55617m	0.424	ppbv	
78) Hexachloro-1,3-Butadiene	22.651	225	49532m	0.425	ppbv	
79) Naphthalene	21.403	128	55294m	0.254	ppbv	
80) Naphthalene,2-methyl-	24.438	142	9221m	0.105	ppbv	
81) 1,2,4-Trichlorobenzene	21.165	180	33369m	0.290	ppbv	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050924\
Data File : VL041254.D
Acq On : 9 May 2024 12:07
Operator : SY/MD
Sample : P2403-15 MDL 0.40
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

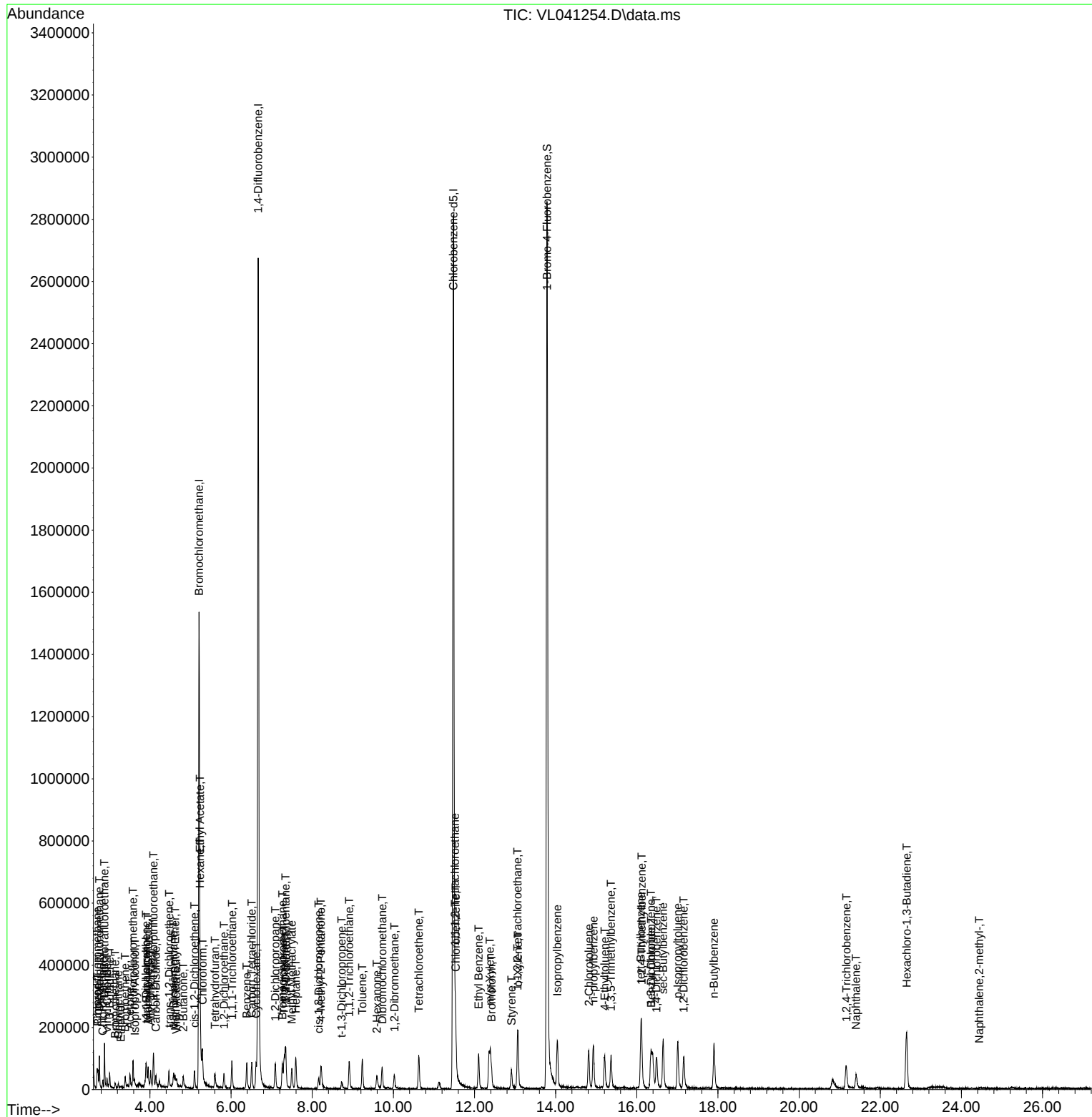
Quant Time: May 10 01:26:06 2024

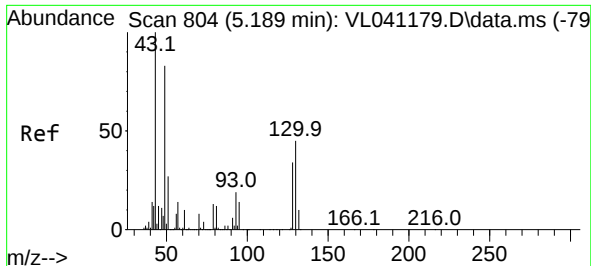
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

QLast Update : Fri May 10 01:23:08 2024

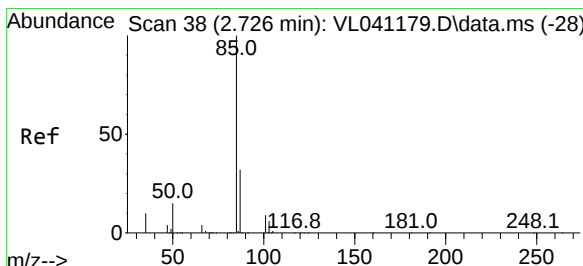
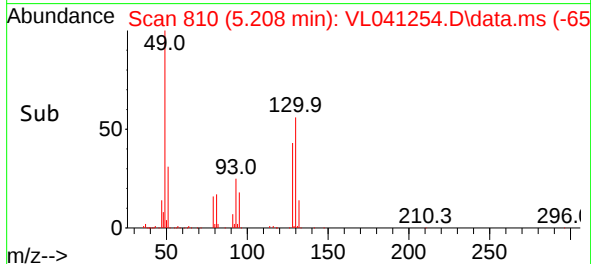
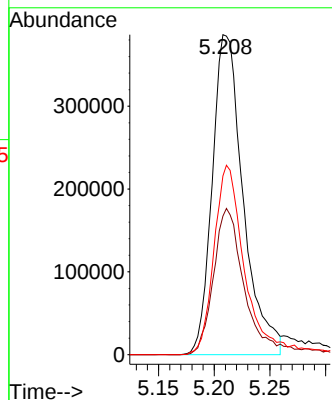
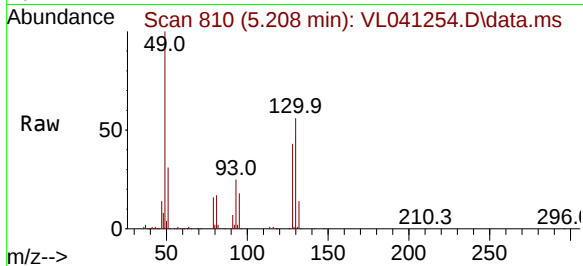
Response via : Initial Calibration





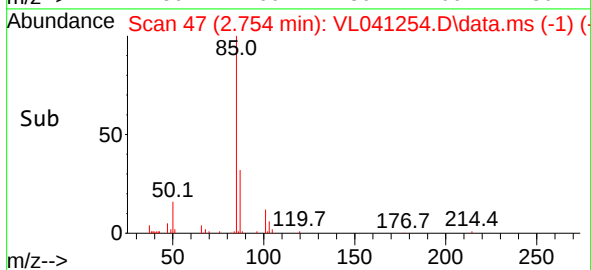
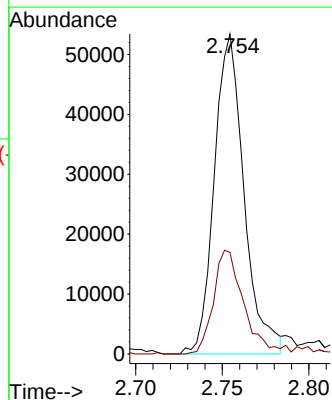
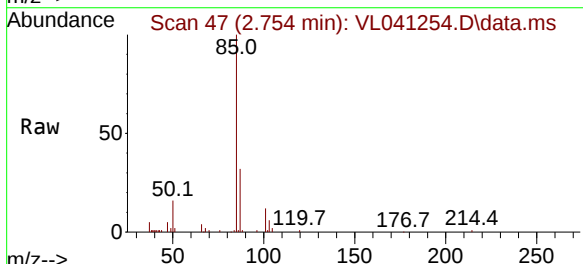
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.208 min Scan# 810
Delta R.T. 0.003 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

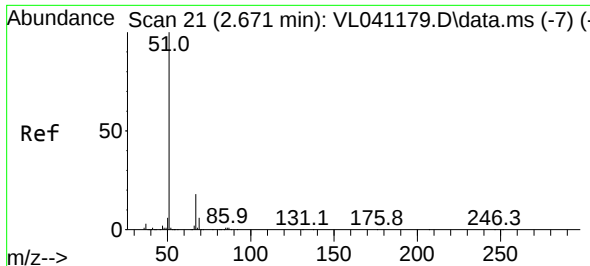
Tgt Ion: 49 Resp: 746047
Ion Ratio Lower Upper
49 100
128 47.9 21.5 64.5
130 61.4 27.2 81.6



#2
Dichlorodifluoromethane
Concen: 0.632 ppbv
RT: 2.754 min Scan# 47
Delta R.T. 0.010 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

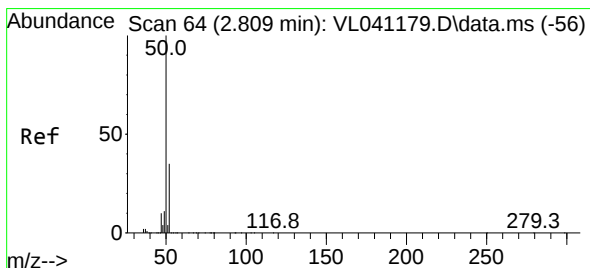
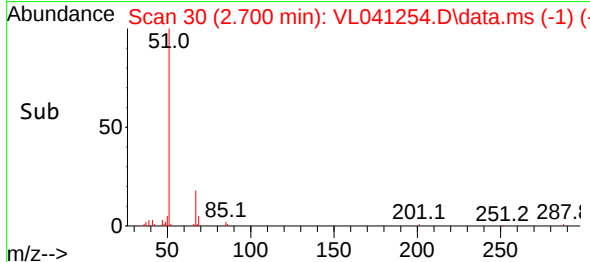
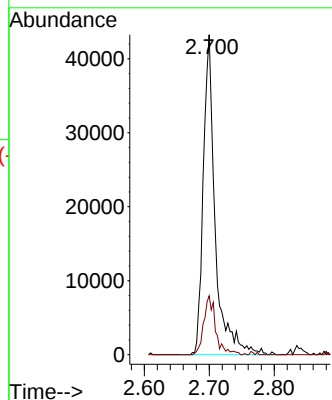
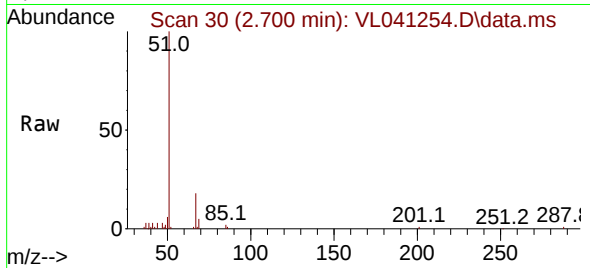
Tgt Ion: 85 Resp: 63797
Ion Ratio Lower Upper
85 100
87 31.7 25.7 38.5





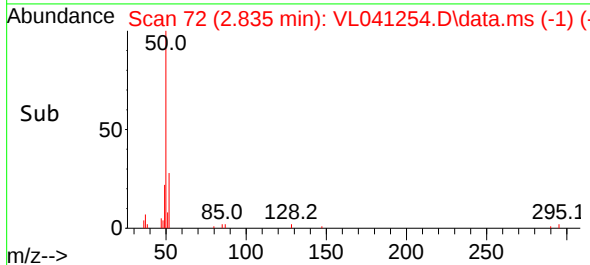
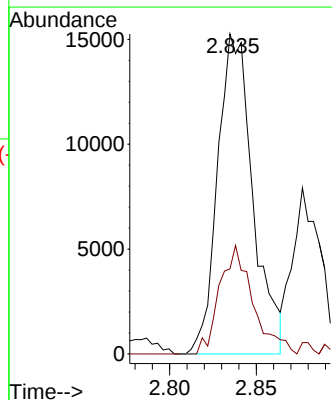
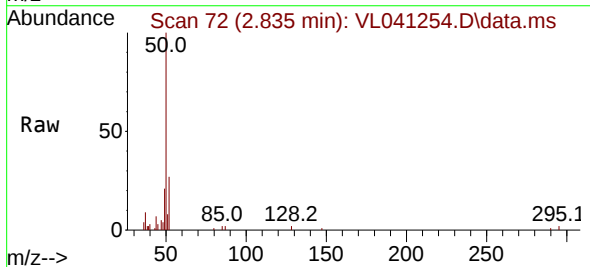
#3
Chlorodifluoromethane
Concen: 0.489 ppbv
RT: 2.700 min Scan# 30
Delta R.T. 0.010 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

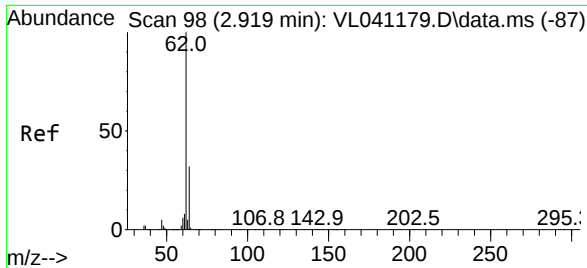
Tgt Ion: 51 Resp: 55424
Ion Ratio Lower Upper
51 100
67 18.4 14.0 21.0



#4
Chloromethane
Concen: 0.486 ppbv
RT: 2.835 min Scan# 72
Delta R.T. 0.006 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

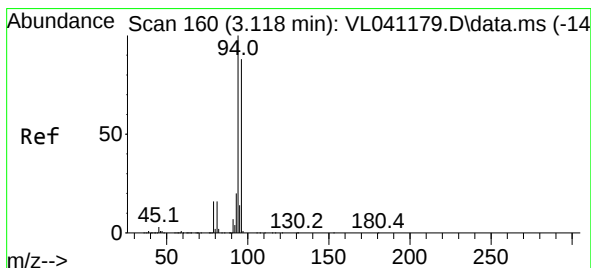
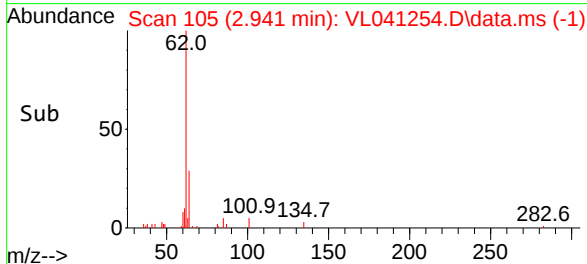
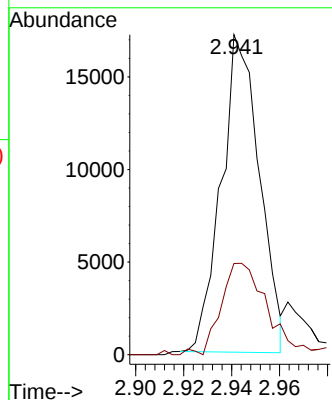
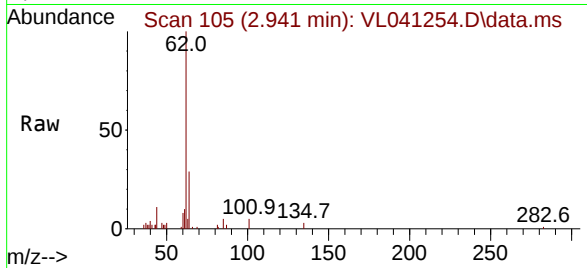
Tgt Ion: 50 Resp: 21587
Ion Ratio Lower Upper
50 100
52 26.6 28.3 42.5#





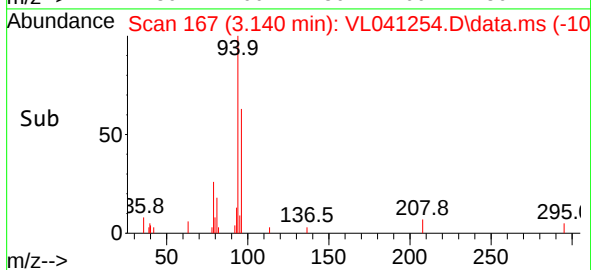
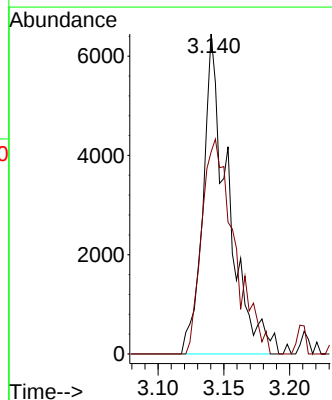
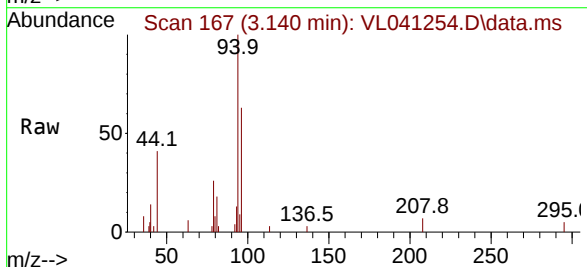
#5
 Vinyl Chloride
 Concen: 0.426 ppbv
 RT: 2.941 min Scan# 105
 Delta R.T. 0.006 min
 Lab File: VL041254.D
 Acq: 9 May 2024 12:07

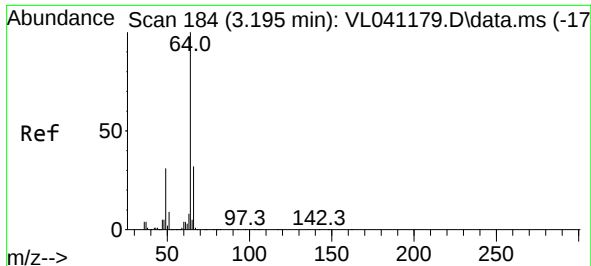
Tgt Ion: 62 Resp: 19006
 Ion Ratio Lower Upper
 62 100
 64 28.8 25.7 38.5



#6
 Bromomethane
 Concen: 0.524 ppbv m
 RT: 3.140 min Scan# 167
 Delta R.T. 0.006 min
 Lab File: VL041254.D
 Acq: 9 May 2024 12:07

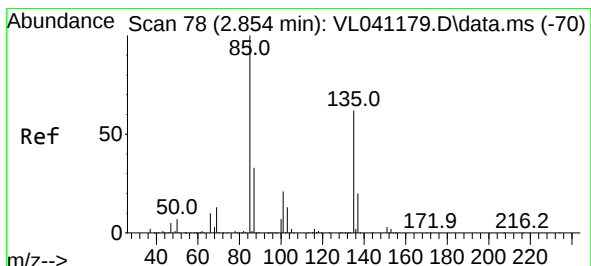
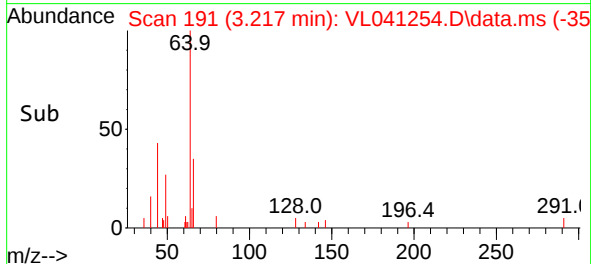
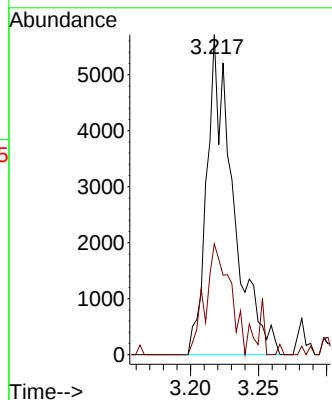
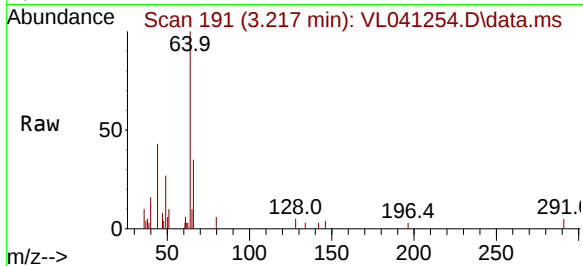
Tgt Ion: 94 Resp: 8542
 Ion Ratio Lower Upper
 94 100
 96 63.1 70.1 105.1#





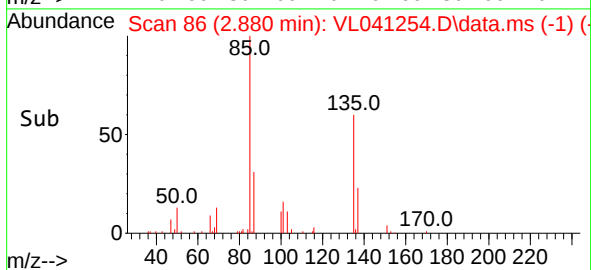
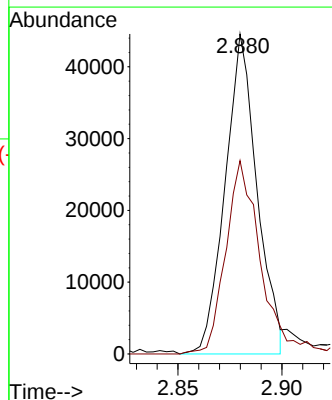
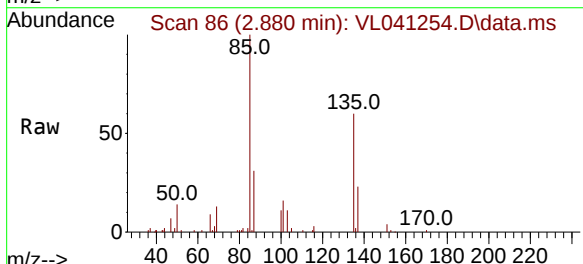
#7
Chloroethane
Concen: 0.487 ppbv m
RT: 3.217 min Scan# 191
Delta R.T. 0.003 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

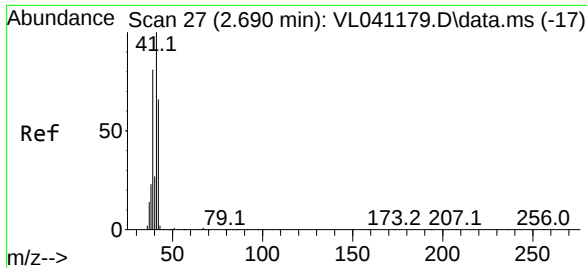
Tgt Ion: 64 Resp: 7681
Ion Ratio Lower Upper
64 100
66 34.6 25.4 38.2



#8
Dichlorotetrafluoroethane
Concen: 0.455 ppbv
RT: 2.880 min Scan# 86
Delta R.T. 0.006 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

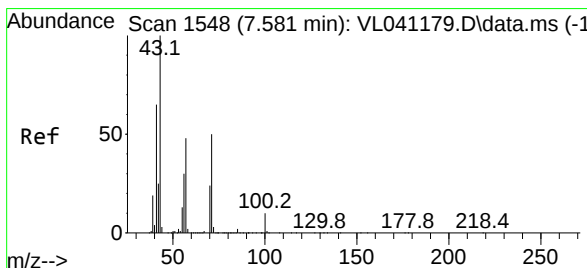
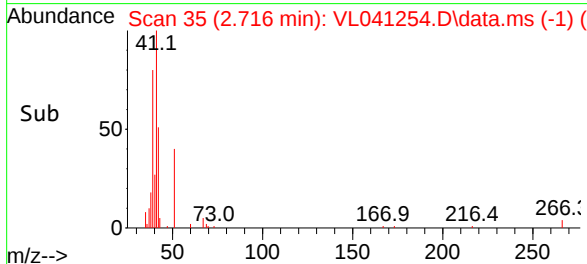
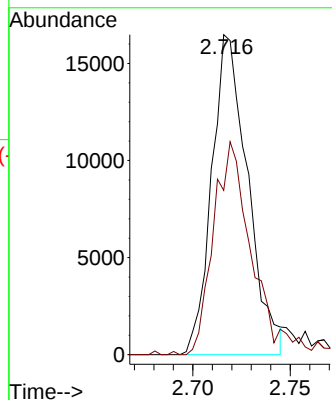
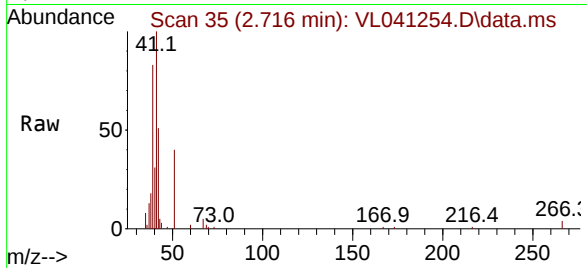
Tgt Ion: 85 Resp: 47577
Ion Ratio Lower Upper
85 100
135 68.5 51.5 77.3





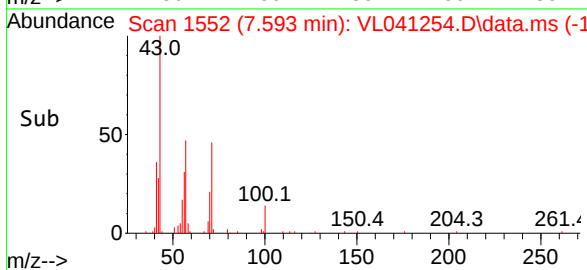
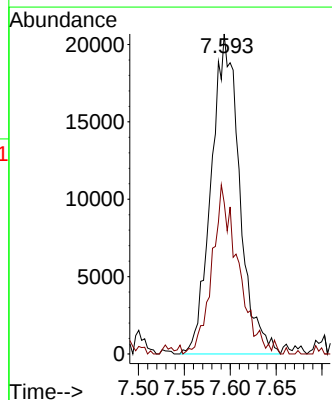
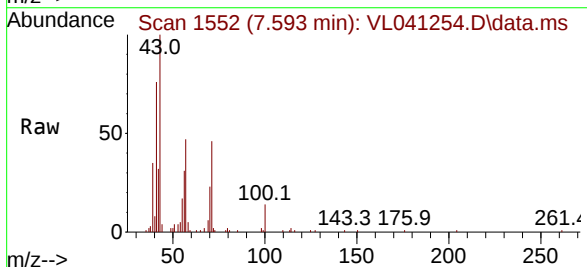
#9
 Propene
 Concen: 0.476 ppbv
 RT: 2.716 min Scan# 35
 Delta R.T. 0.006 min
 Lab File: VL041254.D
 Acq: 9 May 2024 12:07

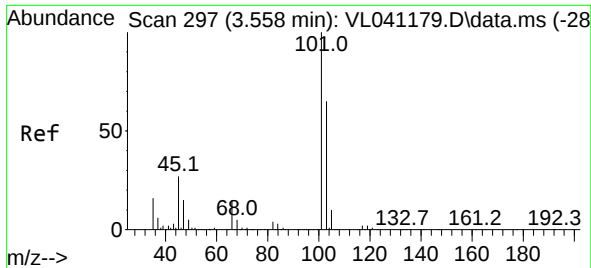
Tgt Ion: 41 Resp: 21095
 Ion Ratio Lower Upper
 41 100
 42 71.9 55.3 82.9



#10
 Heptane
 Concen: 0.414 ppbv m
 RT: 7.593 min Scan# 1552
 Delta R.T. -0.003 min
 Lab File: VL041254.D
 Acq: 9 May 2024 12:07

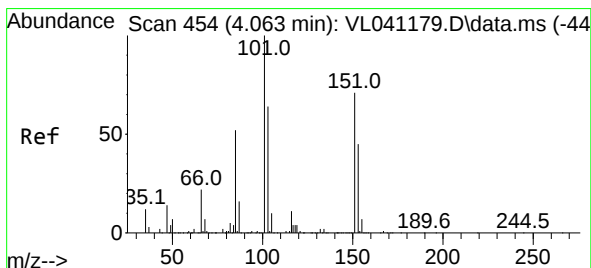
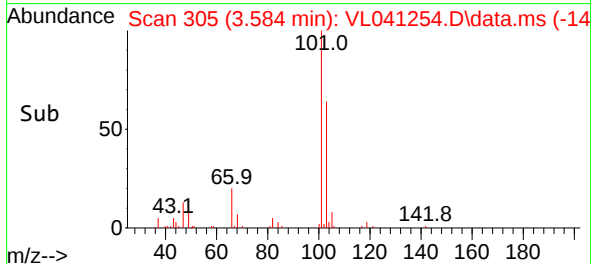
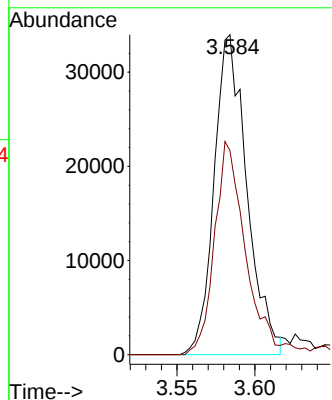
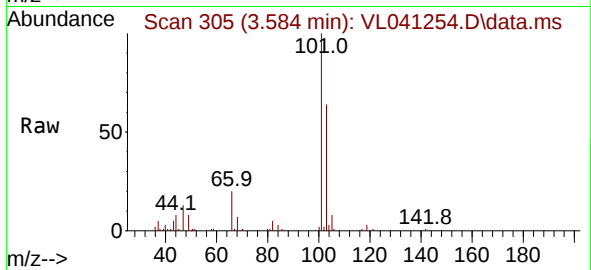
Tgt Ion: 43 Resp: 44431
 Ion Ratio Lower Upper
 43 100
 57 0.0 38.7 58.1#





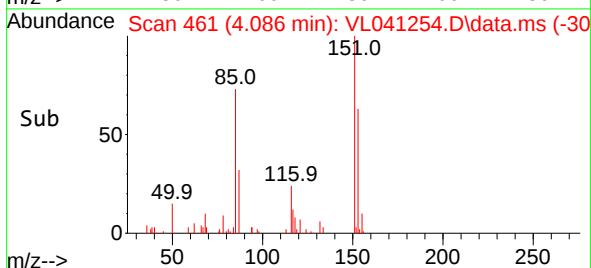
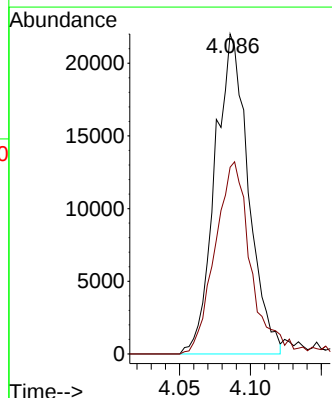
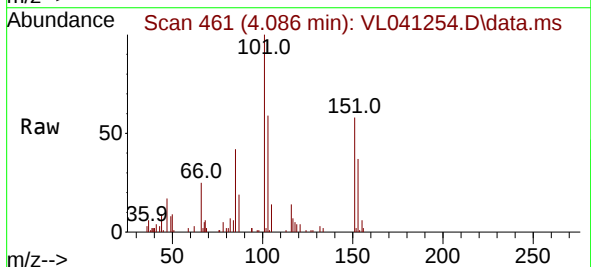
#11
 Trichlorofluoromethane
 Concen: 0.484 ppbv
 RT: 3.584 min Scan# 305
 Delta R.T. 0.006 min
 Lab File: VL041254.D
 Acq: 9 May 2024 12:07

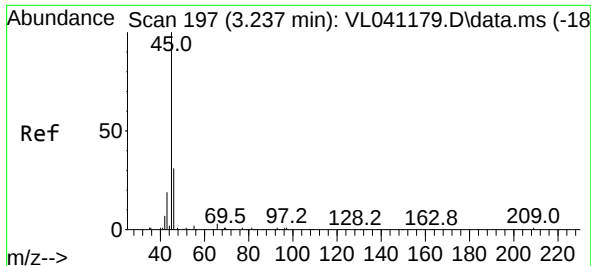
Tgt Ion:101 Resp: 49669
 Ion Ratio Lower Upper
 101 100
 103 63.7 51.6 77.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.477 ppbv
 RT: 4.086 min Scan# 461
 Delta R.T. 0.006 min
 Lab File: VL041254.D
 Acq: 9 May 2024 12:07

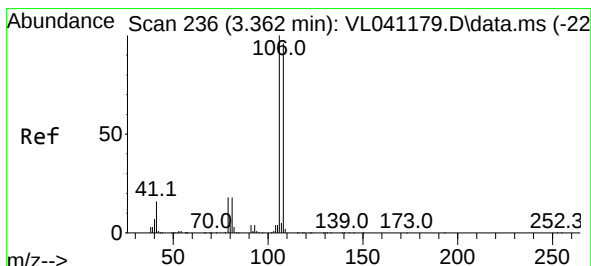
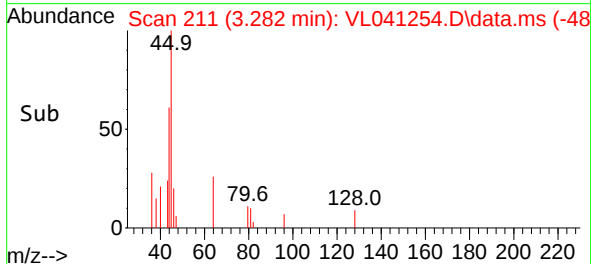
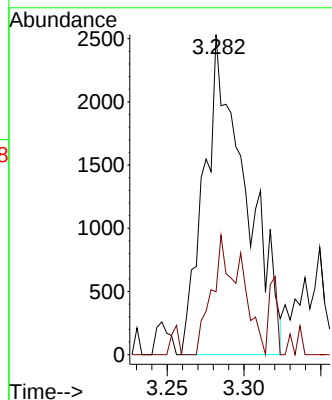
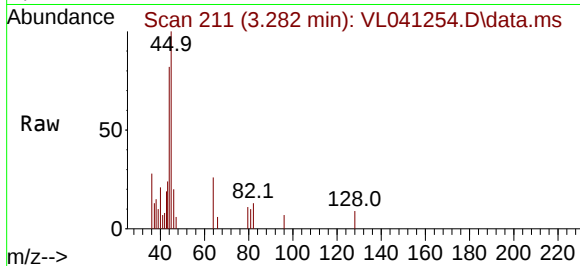
Tgt Ion:101 Resp: 36157
 Ion Ratio Lower Upper
 101 100
 151 65.6 56.8 85.2





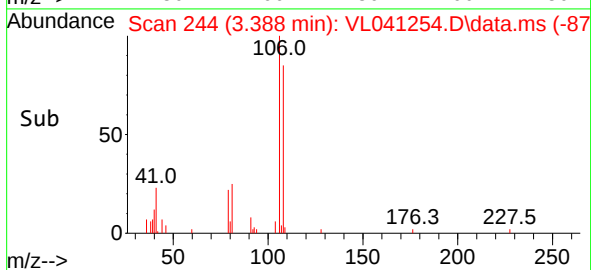
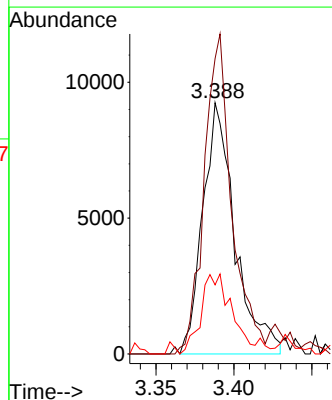
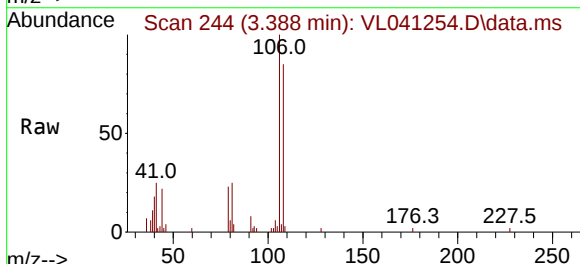
#13
Ethanol
Concen: 0.476 ppbv m
RT: 3.282 min Scan# 211
Delta R.T. 0.026 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

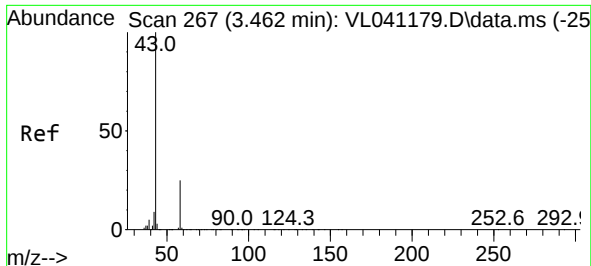
Tgt Ion: 45 Resp: 4728
Ion Ratio Lower Upper
45 100
46 0.0 14.8 59.0#



#14
Bromoethene
Concen: 0.423 ppbv
RT: 3.388 min Scan# 244
Delta R.T. 0.006 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

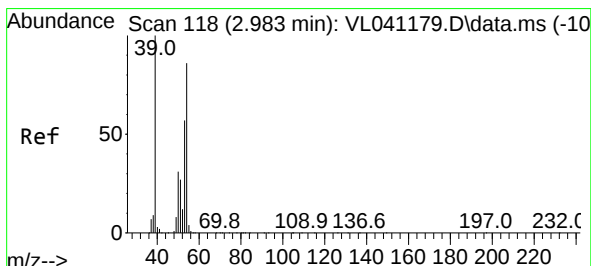
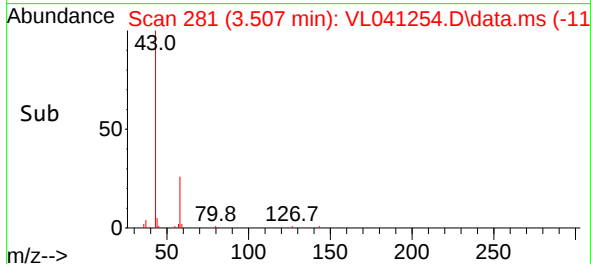
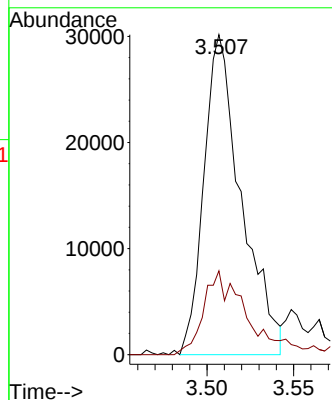
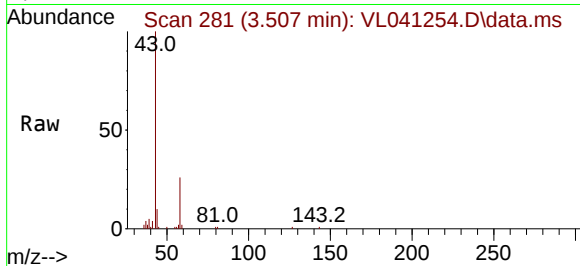
Tgt Ion: 108 Resp: 13242
Ion Ratio Lower Upper
108 100
106 119.4 88.2 132.4
79 33.0 17.4 26.0#





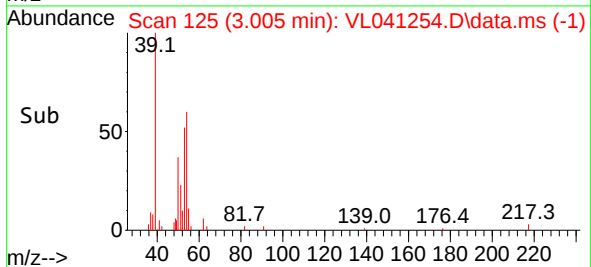
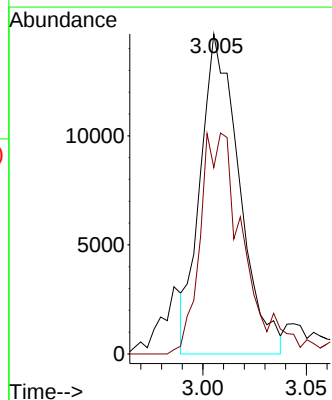
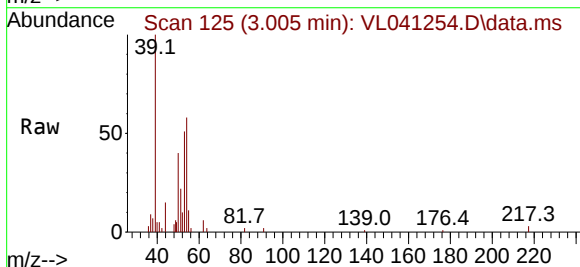
#15
Acetone
Concen: 0.515 ppbv
RT: 3.507 min Scan# 281
Delta R.T. 0.026 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

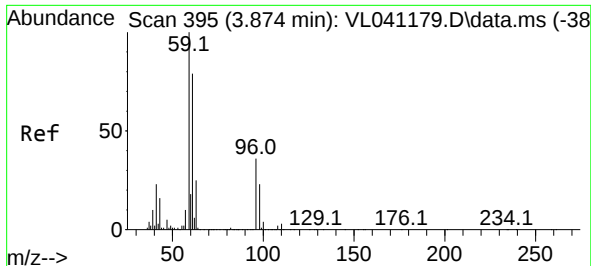
Tgt Ion: 43 Resp: 45307
Ion Ratio Lower Upper
43 100
58 32.7 21.4 32.0#



#16
1,3-Butadiene
Concen: 0.432 ppbv m
RT: 3.005 min Scan# 125
Delta R.T. 0.006 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

Tgt Ion: 39 Resp: 19194
Ion Ratio Lower Upper
39 100
54 78.4 62.2 93.4





#17

tert-Butyl alcohol

Concen: 0.351 ppbv m

RT: 3.915 min Scan# 408

Delta R.T. 0.026 min

Lab File: VL041254.D

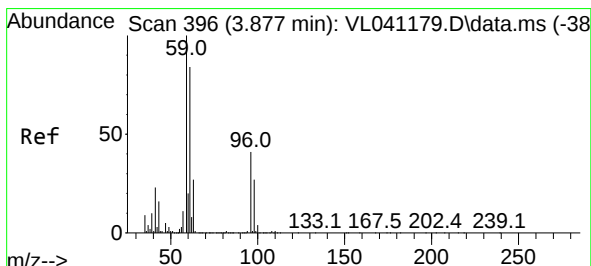
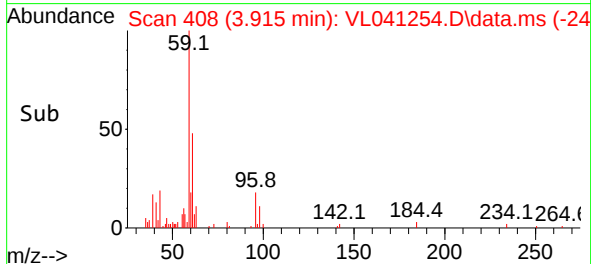
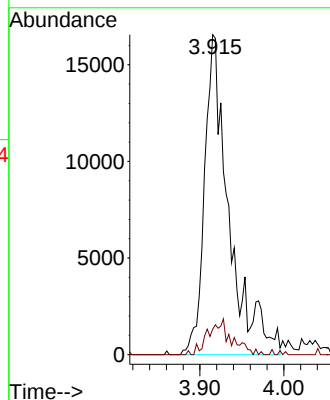
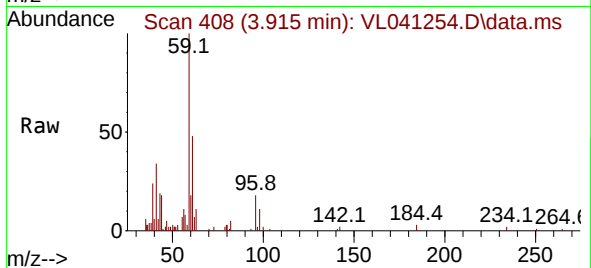
Acq: 9 May 2024 12:07

Tgt Ion: 59 Resp: 33333

Ion Ratio Lower Upper

59 100

57 10.6 8.4 12.6



#18

1,1-Dichloroethene

Concen: 0.492 ppbv m

RT: 3.902 min Scan# 404

Delta R.T. 0.006 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

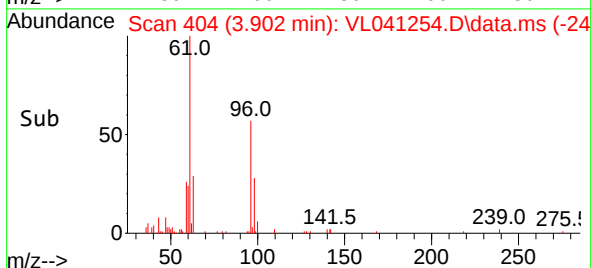
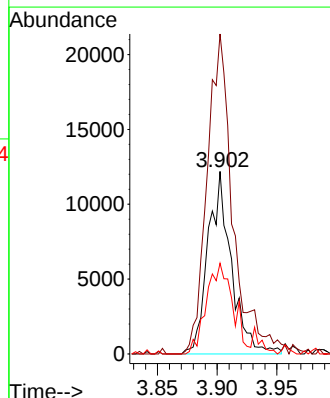
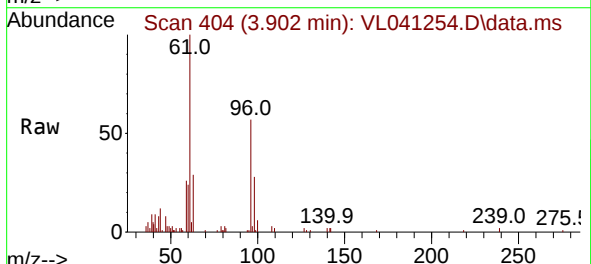
Tgt Ion: 96 Resp: 16625

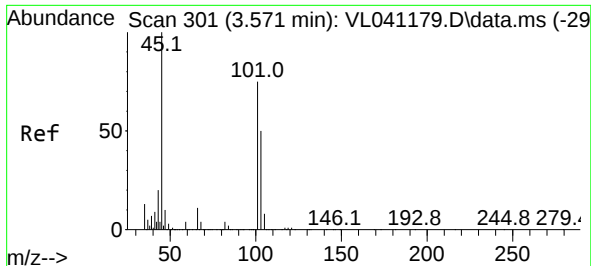
Ion Ratio Lower Upper

96 100

61 175.3 164.4 246.6

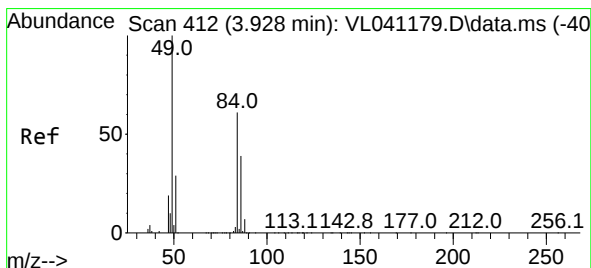
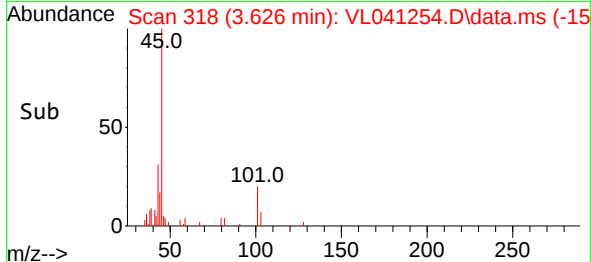
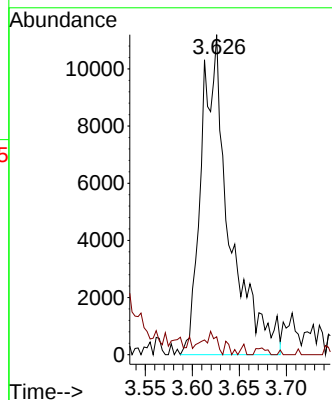
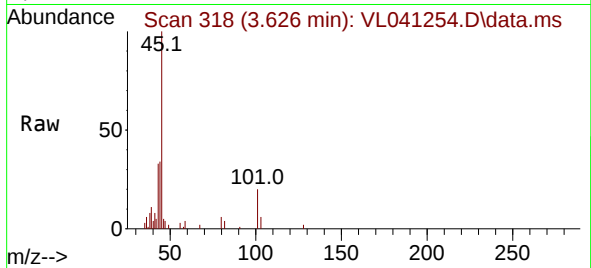
98 49.7 51.8 77.8#





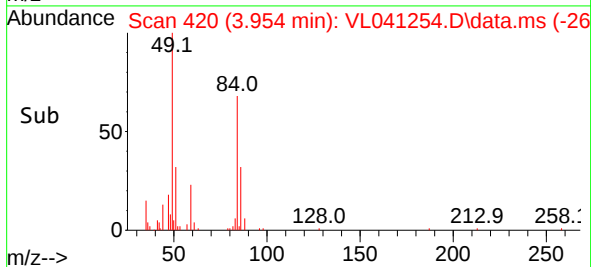
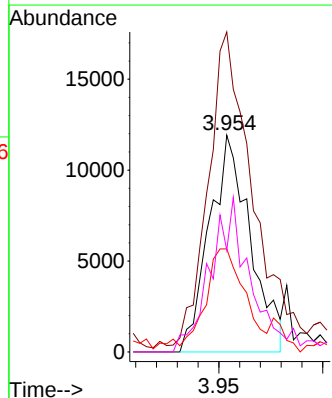
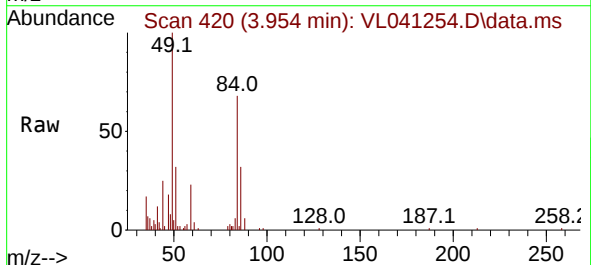
#19
Isopropyl Alcohol
Concen: 0.401 ppbv m
RT: 3.626 min Scan# 318
Delta R.T. 0.035 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

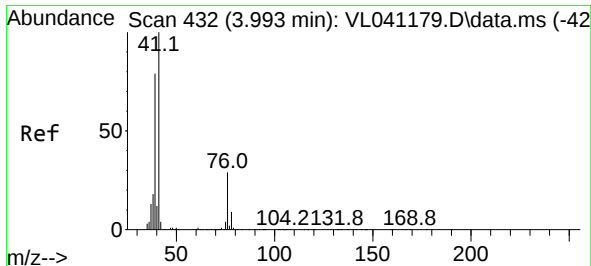
Tgt Ion: 45 Resp: 23141
Ion Ratio Lower Upper
45 100
58 5.0 26.8 40.2#



#20
Methylene Chloride
Concen: 0.534 ppbv
RT: 3.954 min Scan# 420
Delta R.T. 0.006 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

Tgt Ion: 84 Resp: 16337
Ion Ratio Lower Upper
84 100
49 138.9 130.4 195.6
51 44.6 38.0 57.0
86 39.1 50.3 75.5#





#21

Allyl Chloride

Concen: 0.405 ppbv m

RT: 4.018 min Scan# 440

Delta R.T. 0.006 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

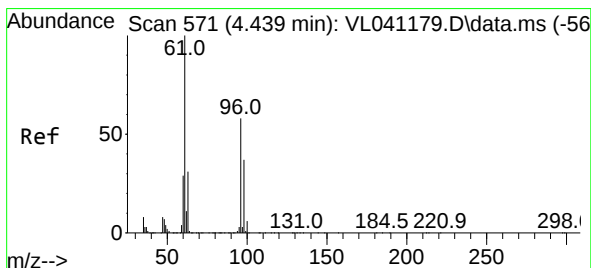
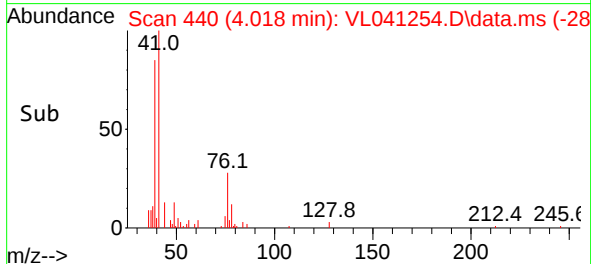
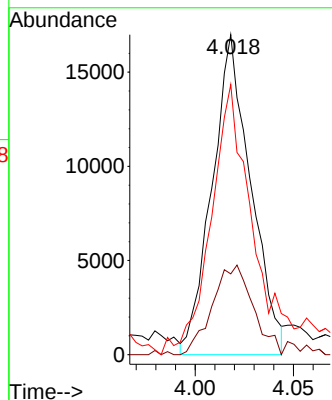
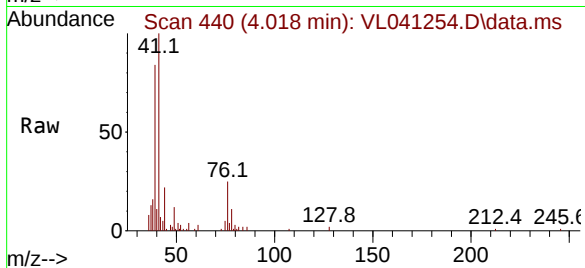
Tgt Ion: 41 Resp: 23273

Ion Ratio Lower Upper

41 100

76 30.9 23.7 35.5

39 101.5 64.7 97.1#



#22

trans-1,2-Dichloroethene

Concen: 0.448 ppbv

RT: 4.471 min Scan# 581

Delta R.T. 0.010 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

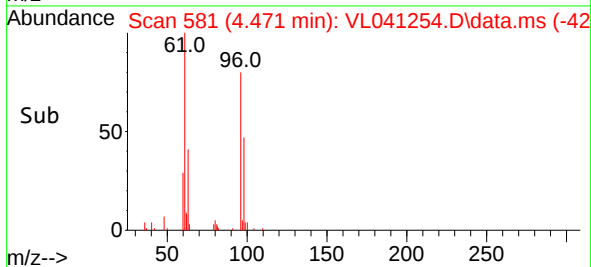
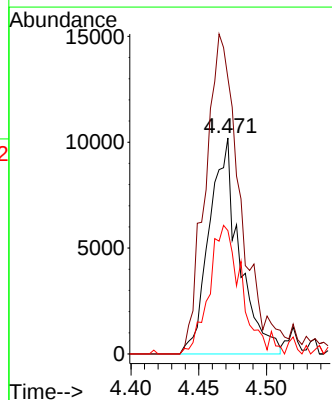
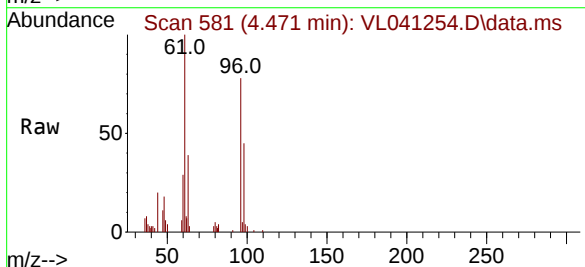
Tgt Ion: 96 Resp: 15758

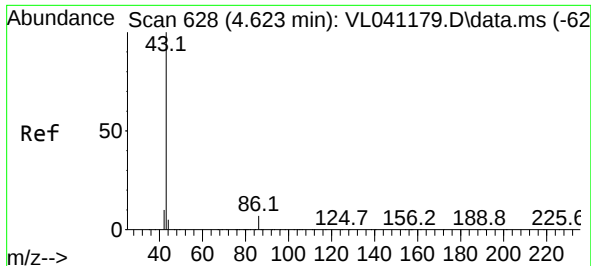
Ion Ratio Lower Upper

96 100

61 127.8 137.6 206.4#

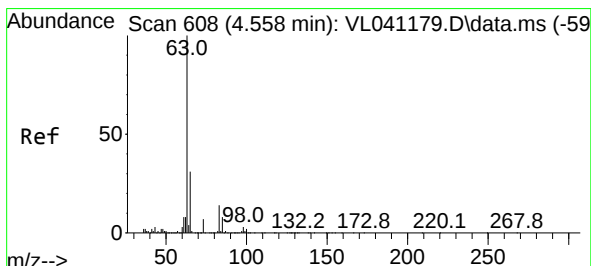
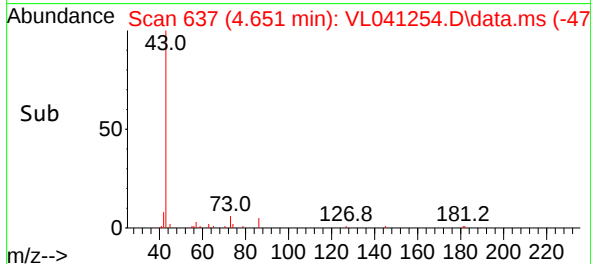
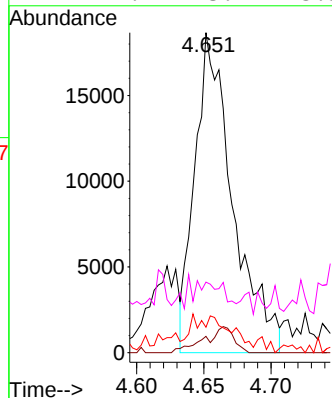
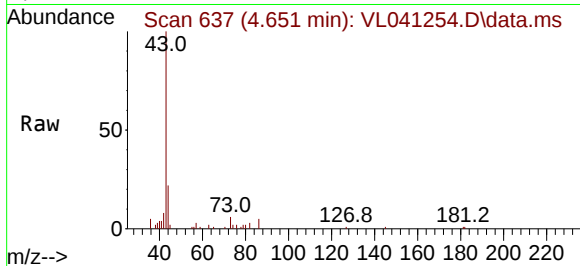
98 57.2 50.6 76.0





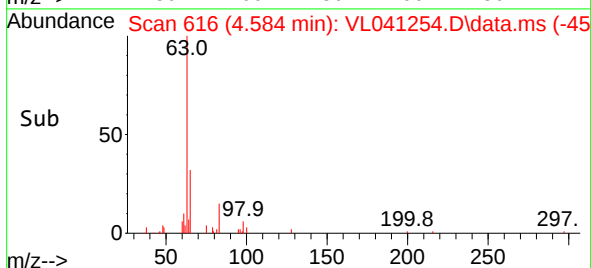
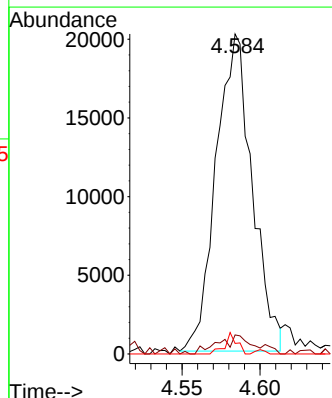
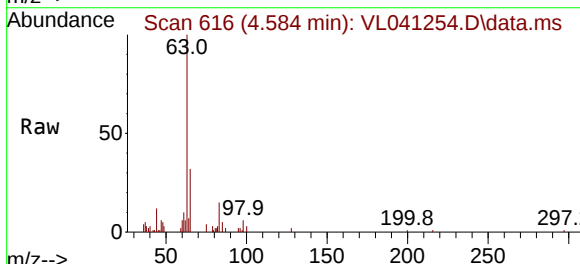
#23
 Vinyl Acetate
 Concen: 0.379 ppbv m
 RT: 4.651 min Scan# 637
 Delta R.T. 0.013 min
 Lab File: VL041254.D
 Acq: 9 May 2024 12:07

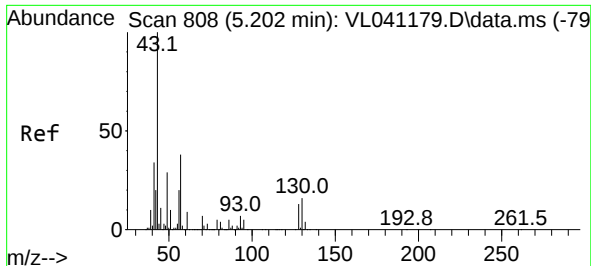
Tgt Ion: 43	Resp: 36702
Ion Ratio	Lower Upper
43 100	
86 5.1	4.9 7.3
42 8.0	8.0 12.0#
44 22.1	3.7 5.5#



#24
 1,1-Dichloroethane
 Concen: 0.430 ppbv
 RT: 4.584 min Scan# 616
 Delta R.T. 0.006 min
 Lab File: VL041254.D
 Acq: 9 May 2024 12:07

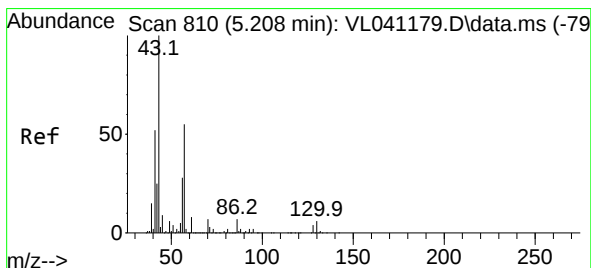
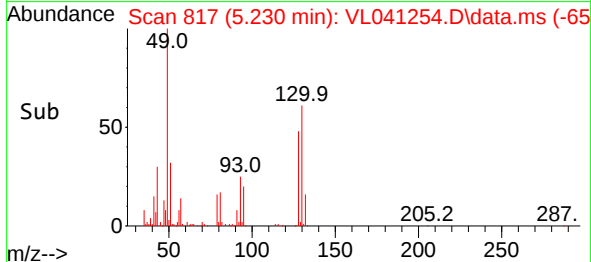
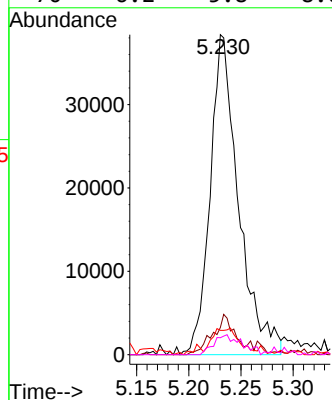
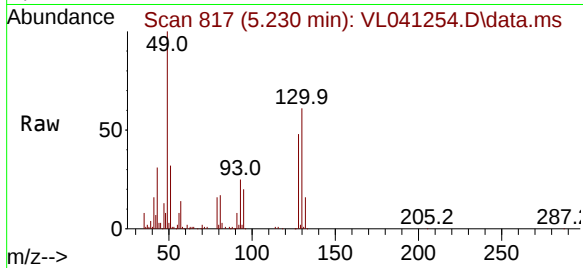
Tgt Ion: 63	Resp: 32417
Ion Ratio	Lower Upper
63 100	
98 6.0	1.6 4.8#
100 3.3	1.1 3.5





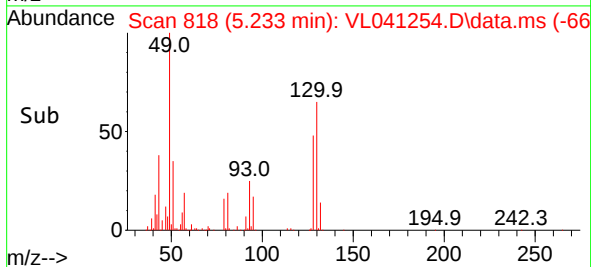
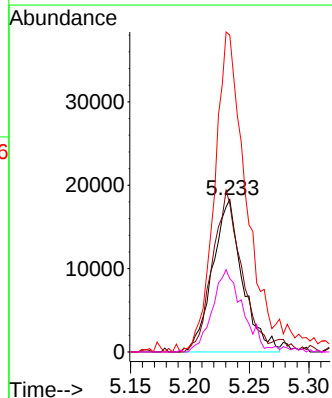
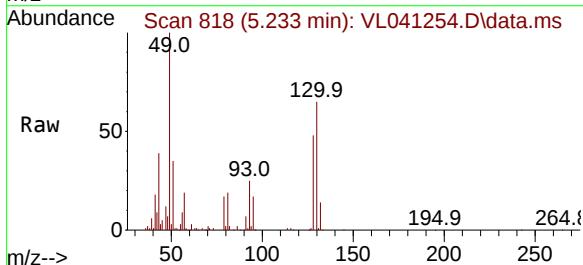
#25
Ethyl Acetate
Concen: 0.412 ppbv m
RT: 5.230 min Scan# 817
Delta R.T. 0.010 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

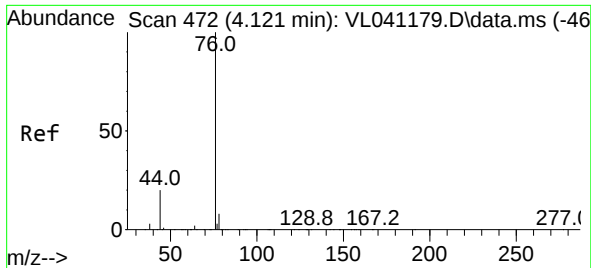
Tgt Ion: 43	Resp: 72347
Ion Ratio	Lower Upper
43 100	
45 11.7	8.2 12.2
61 10.0	7.7 11.5
70 6.2	5.8 8.6



#26
Hexane
Concen: 0.410 ppbv m
RT: 5.233 min Scan# 818
Delta R.T. 0.006 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

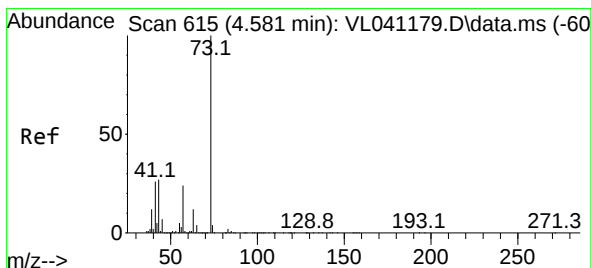
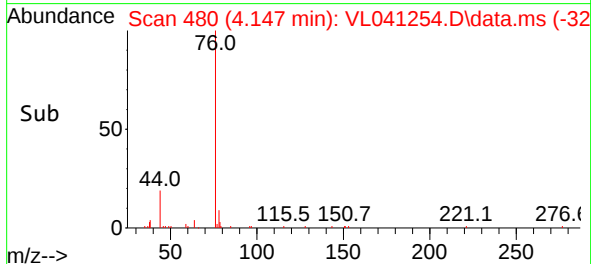
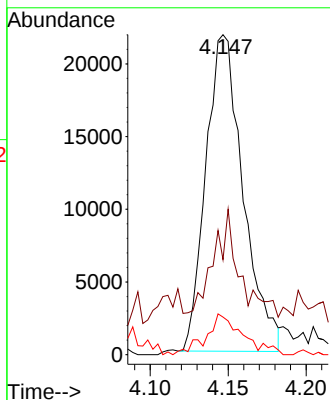
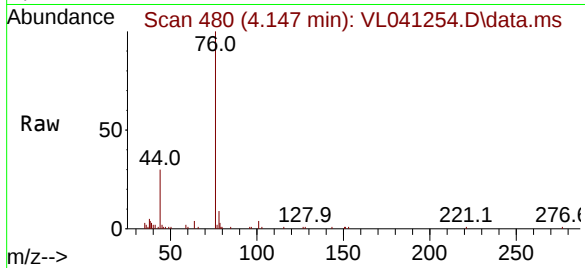
Tgt Ion: 57	Resp: 32119
Ion Ratio	Lower Upper
57 100	
41 109.7	75.8 113.8
43 241.0	187.0 280.4
56 56.7	42.7 64.1





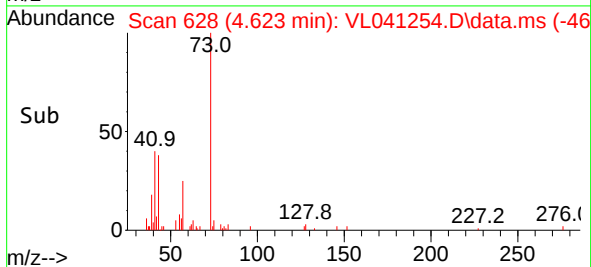
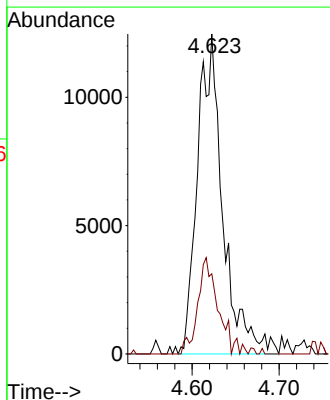
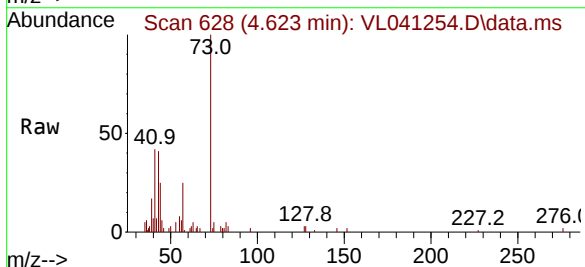
#27
Carbon Disulfide
Concen: 0.390 ppbv
RT: 4.147 min Scan# 480
Delta R.T. 0.006 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

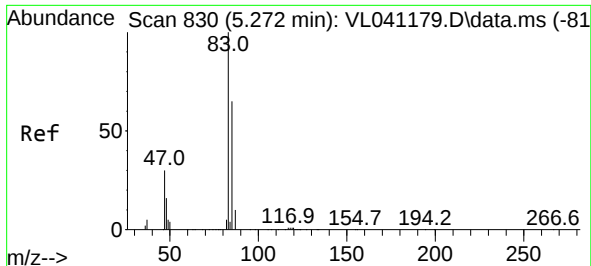
Tgt Ion: 76 Resp: 36211
Ion Ratio Lower Upper
76 100
44 37.6 16.3 24.5#
78 12.6 7.3 10.9#



#28
Methyl tert-Butyl Ether
Concen: 0.403 ppbv m
RT: 4.623 min Scan# 628
Delta R.T. 0.022 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

Tgt Ion: 73 Resp: 25176
Ion Ratio Lower Upper
73 100
57 24.9 18.8 28.2





#29

Chloroform

Concen: 0.495 ppbv

RT: 5.295 min Scan# 837

Delta R.T. 0.006 min

Lab File: VL041254.D

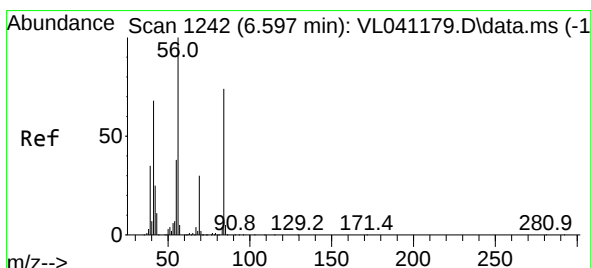
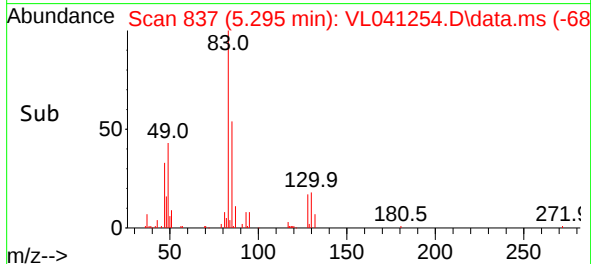
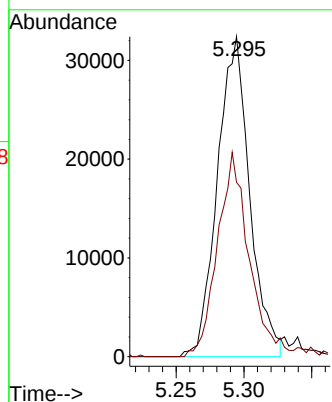
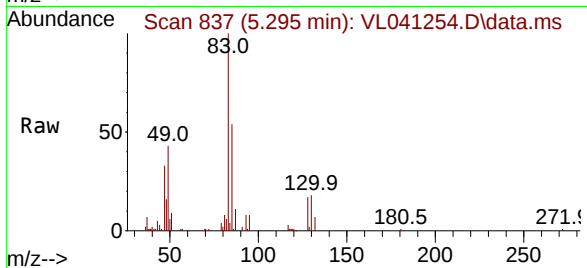
Acq: 9 May 2024 12:07

Tgt Ion: 83 Resp: 53592

Ion Ratio Lower Upper

83 100

85 54.5 51.7 77.5



#30

Cyclohexane

Concen: 0.452 ppbv m

RT: 6.619 min Scan# 1249

Delta R.T. 0.003 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

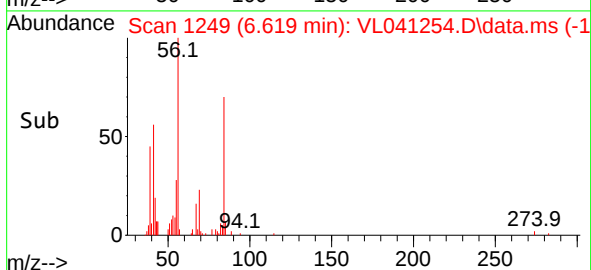
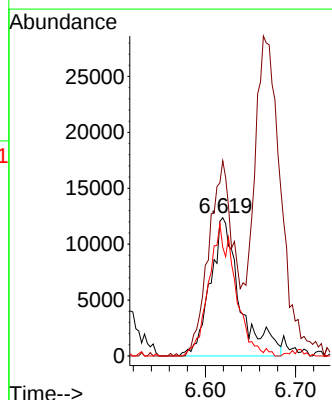
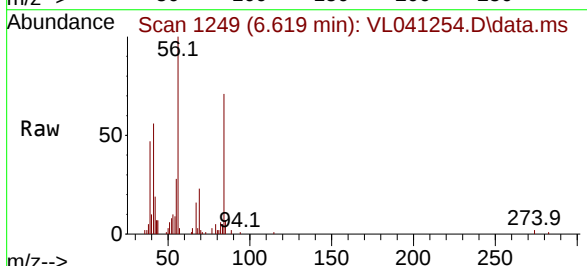
Tgt Ion: 84 Resp: 28045

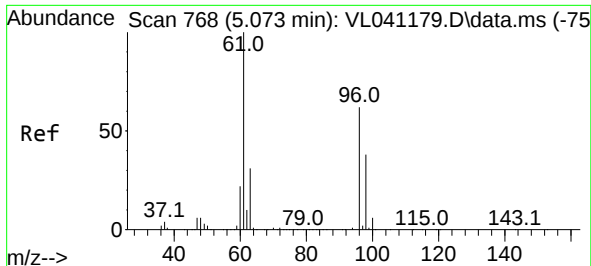
Ion Ratio Lower Upper

84 100

56 120.3 116.8 175.2

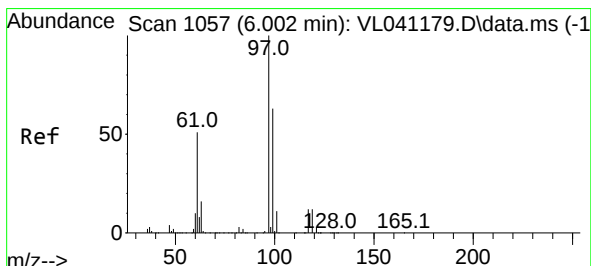
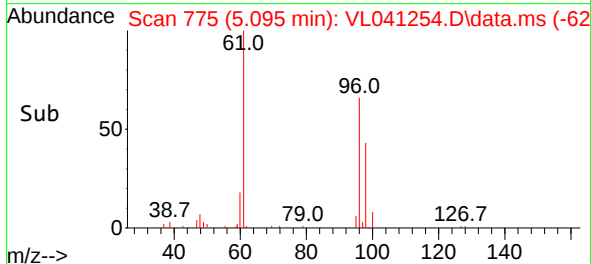
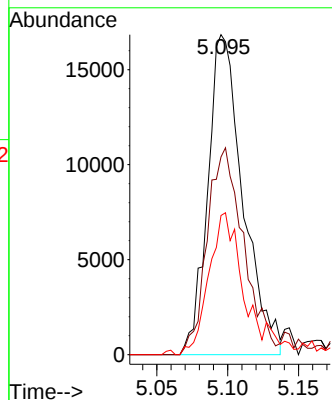
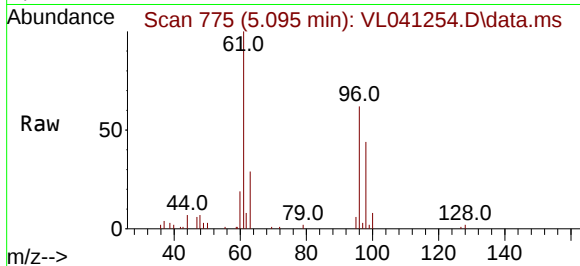
41 86.2 73.8 110.8





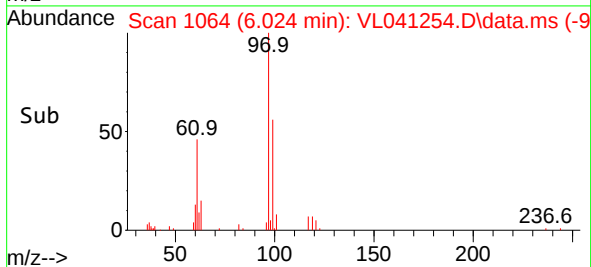
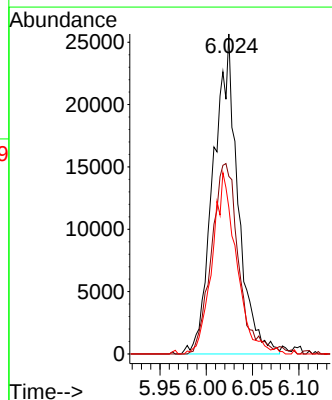
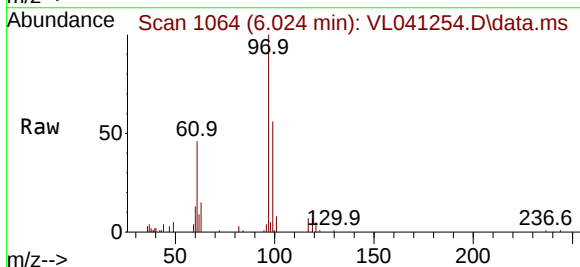
#31
 cis-1,2-Dichloroethene
 Concen: 0.398 ppbv
 RT: 5.095 min Scan# 775
 Delta R.T. -0.000 min
 Lab File: VL041254.D
 Acq: 9 May 2024 12:07

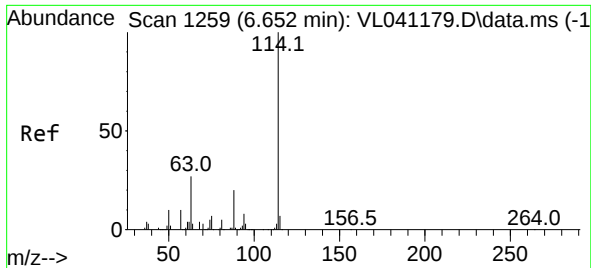
Tgt Ion: 61 Resp: 29191
 Ion Ratio Lower Upper
 61 100
 96 57.5 49.8 74.6
 98 40.4 30.0 45.0



#32
 1,1,1-Trichloroethane
 Concen: 0.438 ppbv m
 RT: 6.024 min Scan# 1064
 Delta R.T. 0.006 min
 Lab File: VL041254.D
 Acq: 9 May 2024 12:07

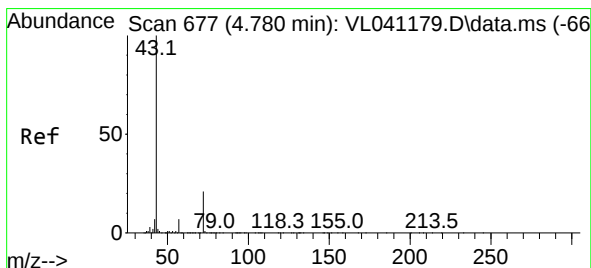
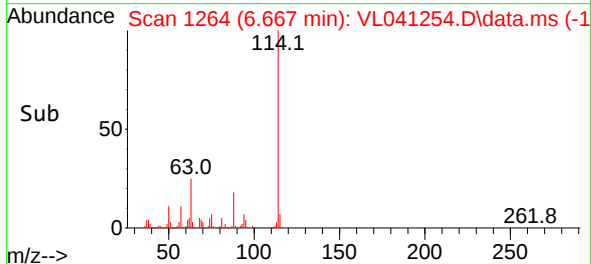
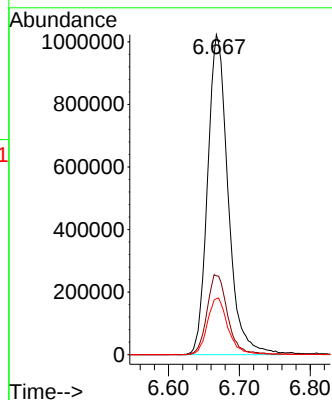
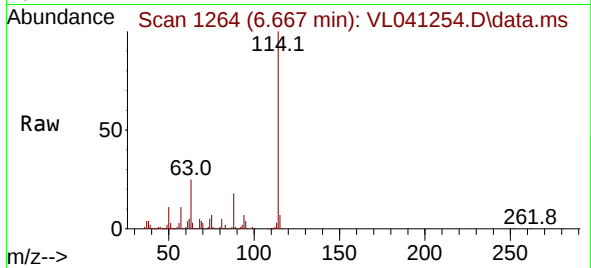
Tgt Ion: 97 Resp: 47334
 Ion Ratio Lower Upper
 97 100
 99 66.7 51.7 77.5
 61 56.6 41.1 61.7





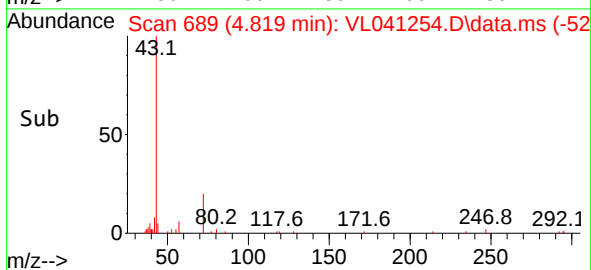
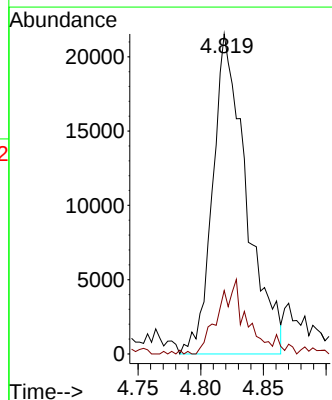
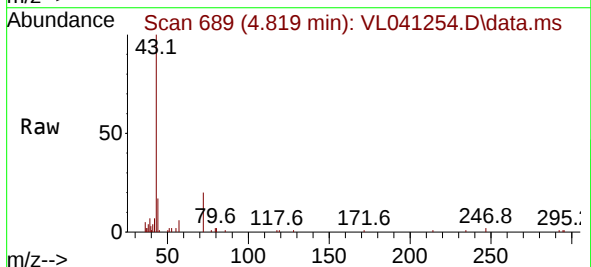
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.667 min Scan# 1264
Delta R.T. -0.000 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

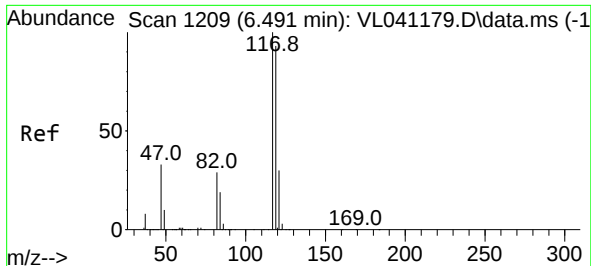
Tgt Ion:114 Resp: 2055920
Ion Ratio Lower Upper
114 100
63 25.4 21.8 32.6
88 17.9 15.2 22.8



#34
2-Butanone
Concen: 0.384 ppbv m
RT: 4.819 min Scan# 689
Delta R.T. 0.019 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

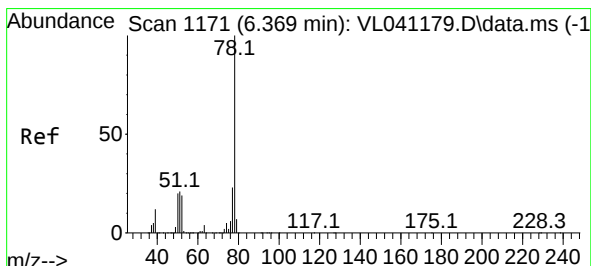
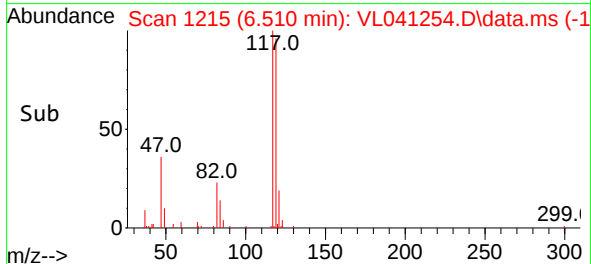
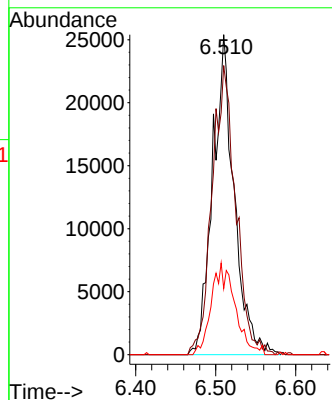
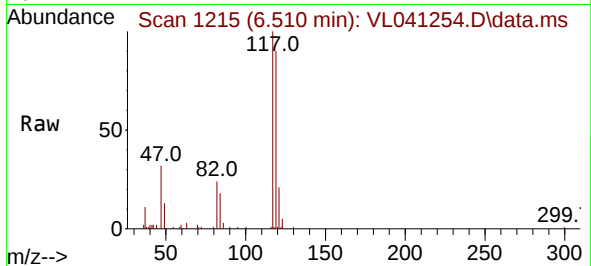
Tgt Ion: 43 Resp: 40234
Ion Ratio Lower Upper
43 100
72 20.8 17.3 25.9





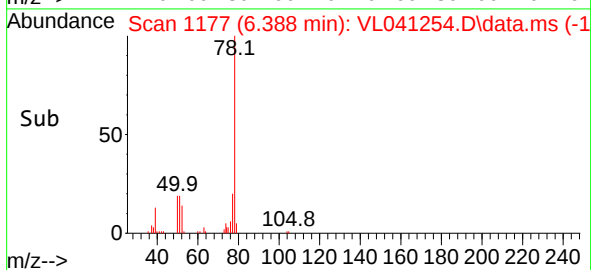
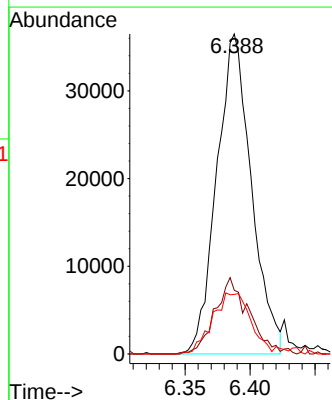
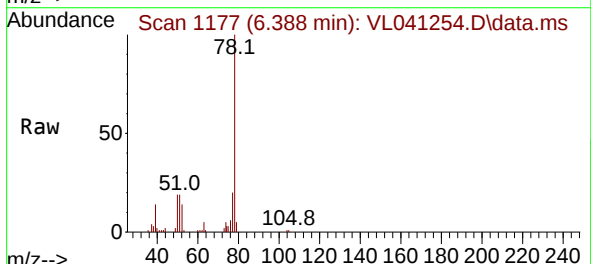
#35
Carbon Tetrachloride
Concen: 0.411 ppbv m
RT: 6.510 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

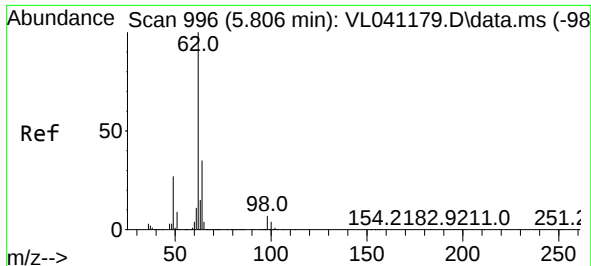
Tgt Ion:117 Resp: 47371
Ion Ratio Lower Upper
117 100
119 90.4 74.3 111.5
121 20.7 23.8 35.8#



#36
Benzene
Concen: 0.392 ppbv
RT: 6.388 min Scan# 1177
Delta R.T. 0.003 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

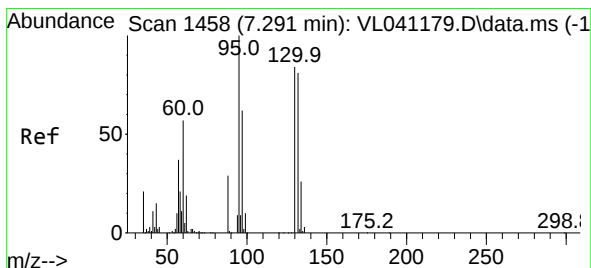
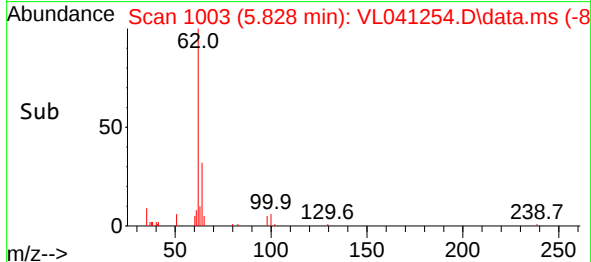
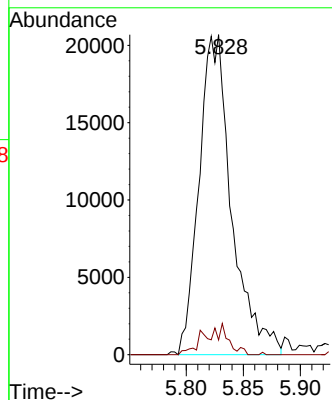
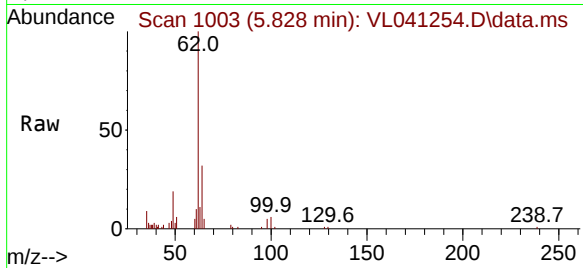
Tgt Ion: 78 Resp: 67652
Ion Ratio Lower Upper
78 100
77 19.5 18.3 27.5
50 18.6 15.9 23.9





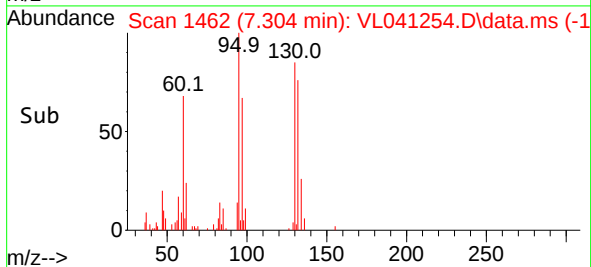
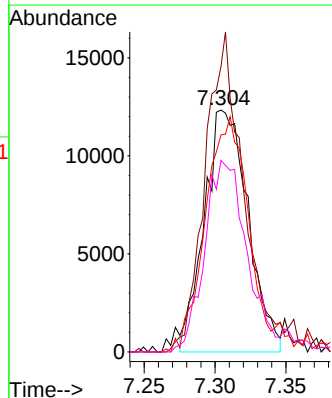
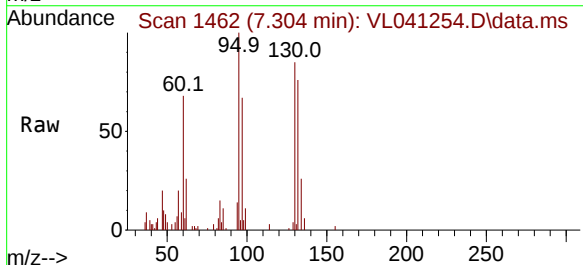
#37
1,2-Dichloroethane
Concen: 0.456 ppbv m
RT: 5.828 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

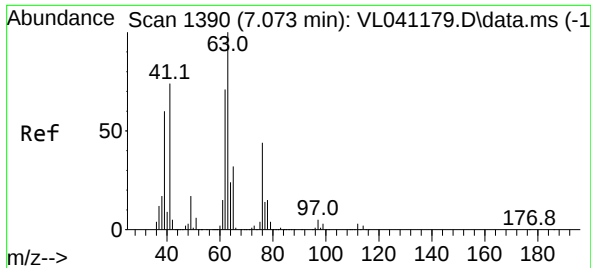
Tgt Ion: 62 Resp: 41046
Ion Ratio Lower Upper
62 100
98 7.0 5.0 7.4



#38
Trichloroethene
Concen: 0.412 ppbv
RT: 7.304 min Scan# 1462
Delta R.T. -0.003 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

Tgt Ion: 130 Resp: 26488
Ion Ratio Lower Upper
130 100
95 118.6 95.0 142.6
132 93.2 77.0 115.4
97 81.0 59.1 88.7





#39

1,2-Dichloropropane

Concen: 0.413 ppbv m

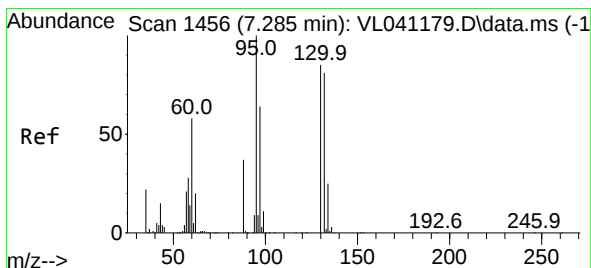
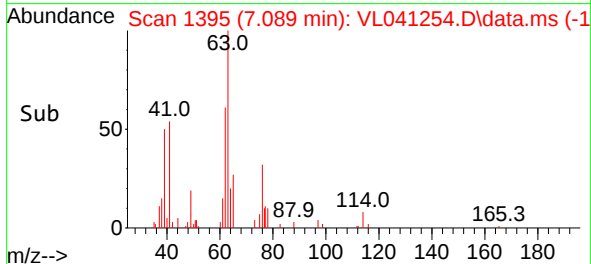
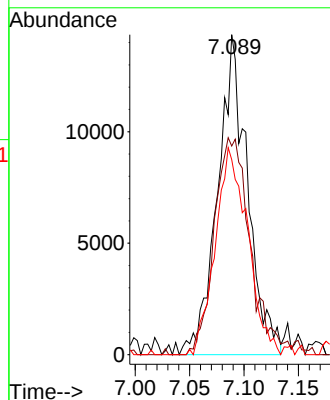
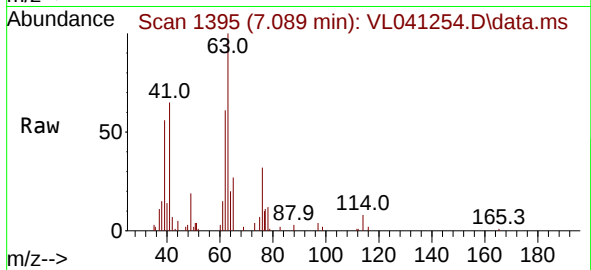
RT: 7.089 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

Tgt Ion:	63	Resp:	27428
Ion	Ratio	Lower	Upper
63	100		
41	65.2	59.4	89.0
62	60.9	56.8	85.2



#40

1,4-Dioxane

Concen: 0.363 ppbv m

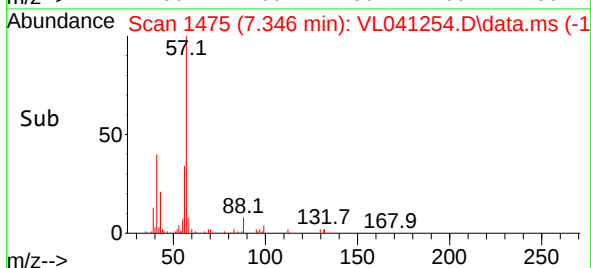
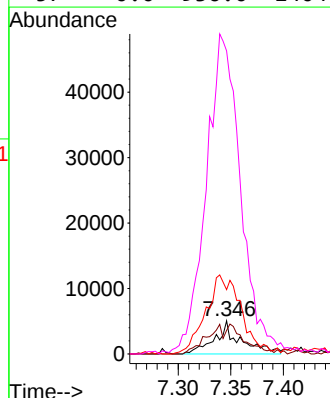
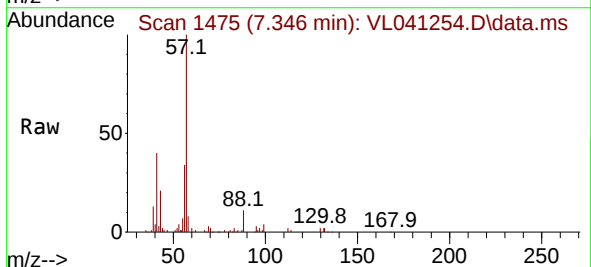
RT: 7.346 min Scan# 1475

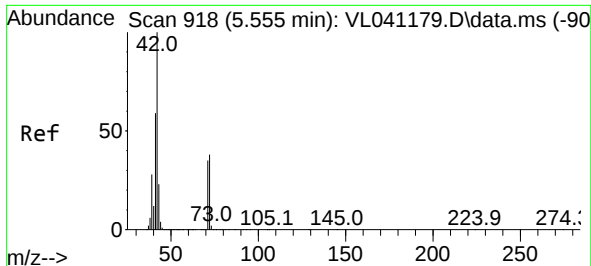
Delta R.T. 0.048 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

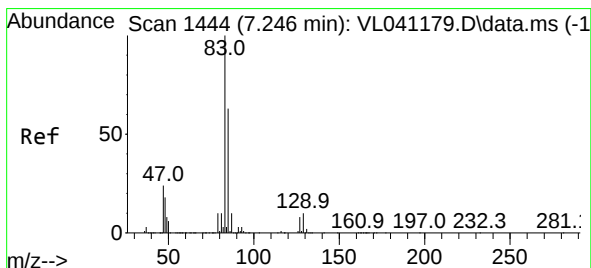
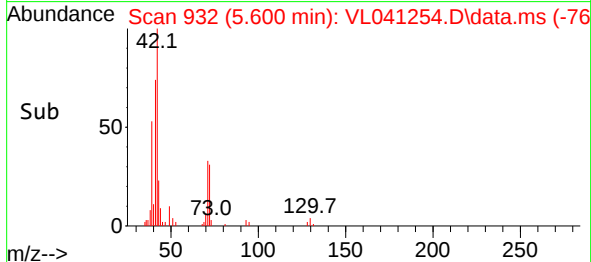
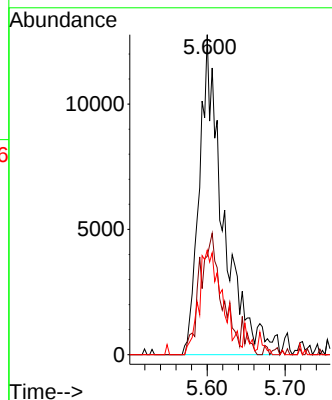
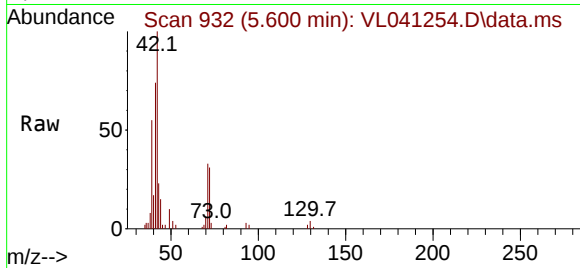
Tgt Ion:	88	Resp:	8620
Ion	Ratio	Lower	Upper
88	100		
58	0.0	106.1	159.1#
43	0.0	219.8	329.6#
57	0.0	936.0	1404.0#





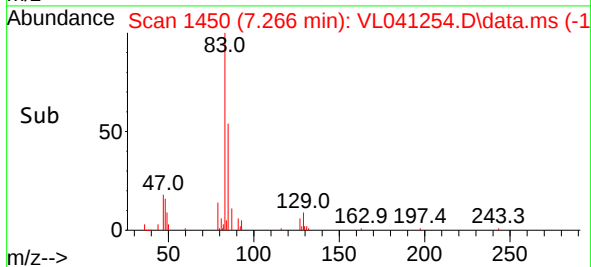
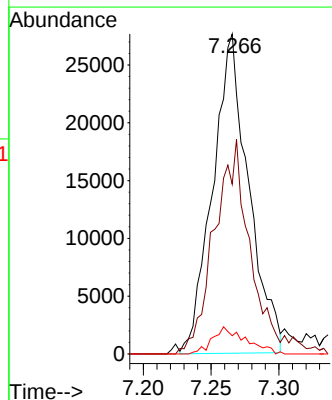
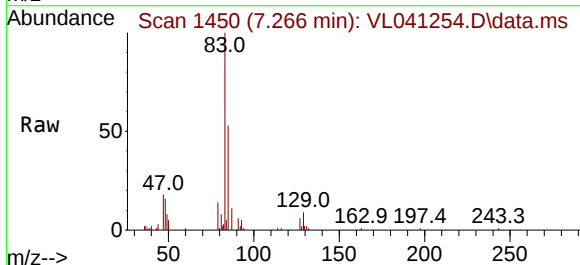
#41
Tetrahydrofuran
Concen: 0.362 ppbv m
RT: 5.600 min Scan# 932
Delta R.T. 0.029 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

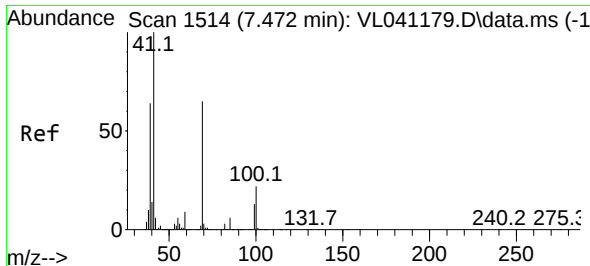
Tgt Ion:	42	Resp:	27419
Ion Ratio	Lower	Upper	
42	100		
72	37.2	29.4	44.0
71	35.6	29.1	43.7



#42
Bromodichloromethane
Concen: 0.395 ppbv
RT: 7.266 min Scan# 1450
Delta R.T. 0.003 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

Tgt Ion:	83	Resp:	51056
Ion Ratio	Lower	Upper	
83	100		
85	51.8	50.6	75.8
127	5.7	6.2	9.4

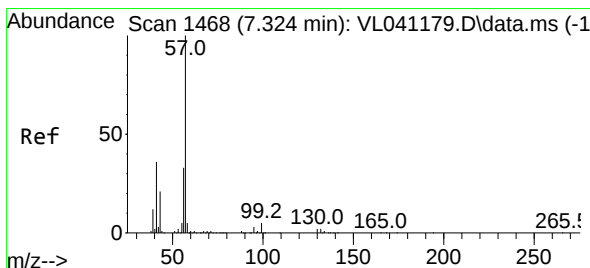
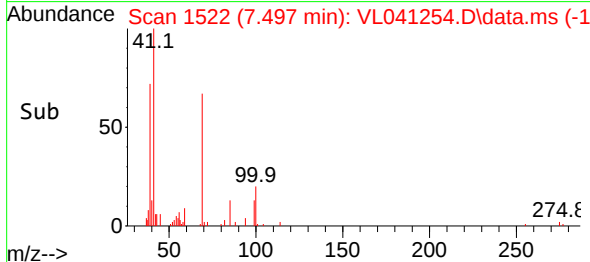
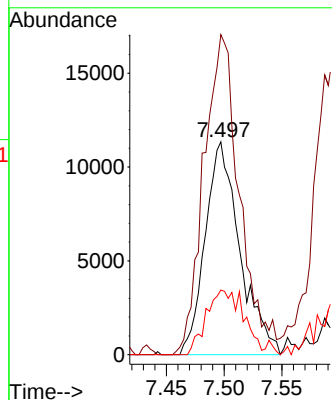
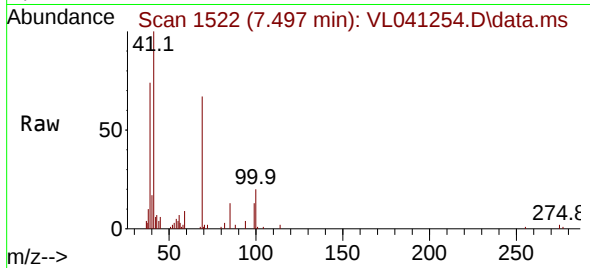




#43
Methyl Methacrylate
Concen: 0.339 ppbv
RT: 7.497 min Scan# 1522
Delta R.T. 0.010 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

Tgt Ion: 69 Resp: 23684

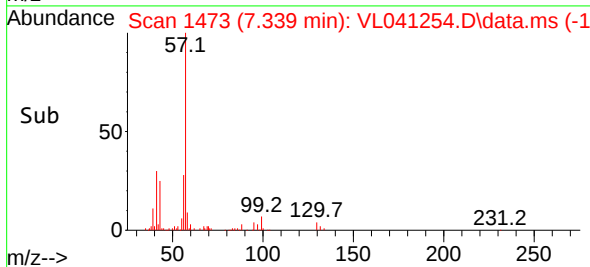
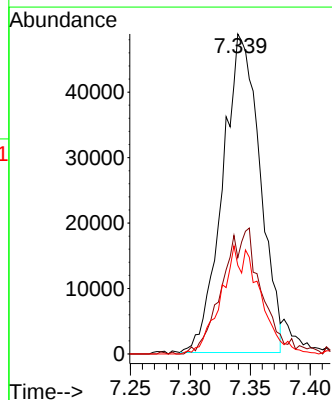
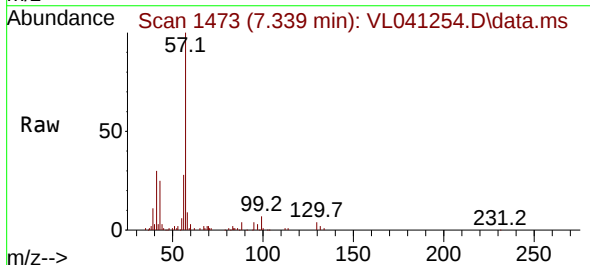
Ion	Ratio	Lower	Upper
69	100		
41	154.5	125.2	187.8
100	34.1	26.7	40.1

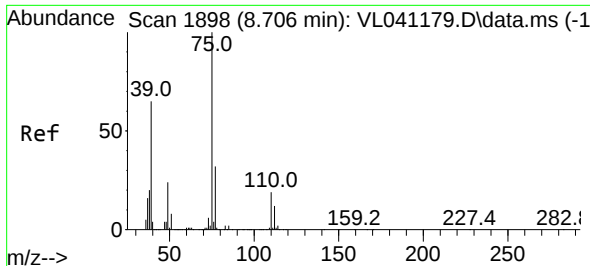


#44
2,2,4-Trimethylpentane
Concen: 0.355 ppbv
RT: 7.339 min Scan# 1473
Delta R.T. -0.000 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

Tgt Ion: 57 Resp: 105748

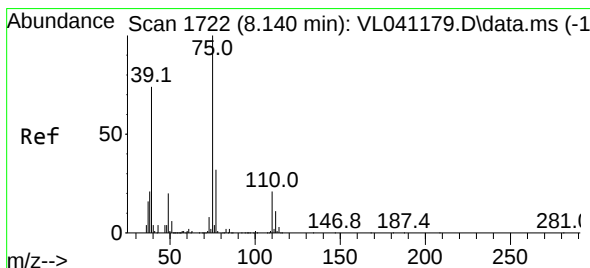
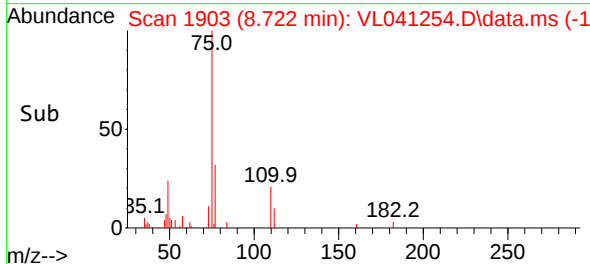
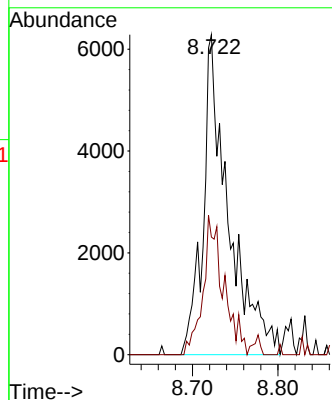
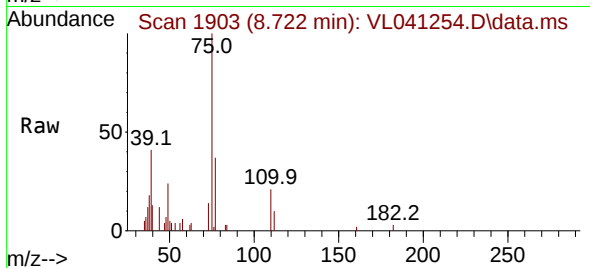
Ion	Ratio	Lower	Upper
57	100		
41	42.5	29.5	44.3
56	35.2	25.3	37.9





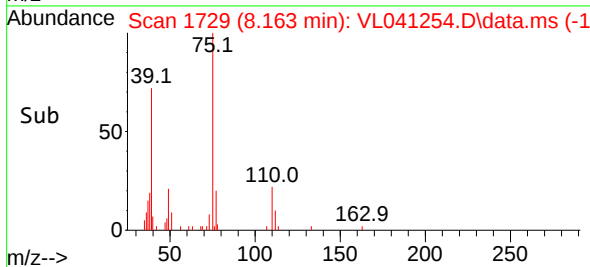
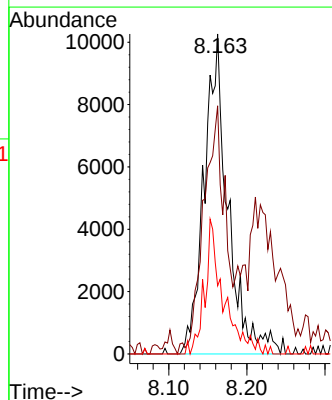
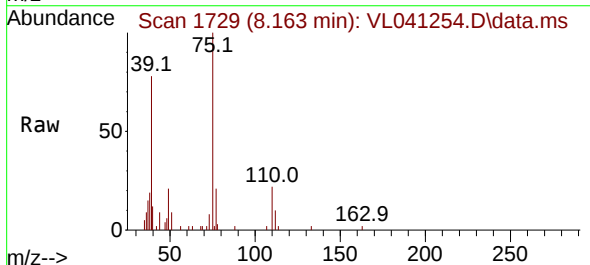
#45
t-1,3-Dichloropropene
Concen: 0.257 ppbv m
RT: 8.722 min Scan# 1903
Delta R.T. -0.000 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

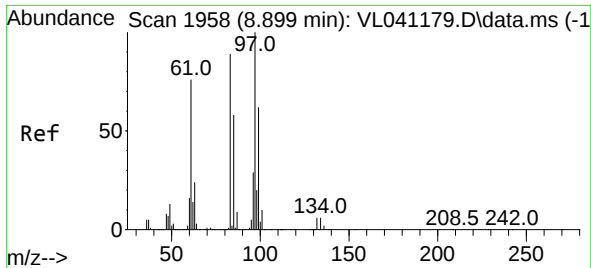
Tgt Ion: 75 Resp: 12979
Ion Ratio Lower Upper
75 100
77 36.7 25.6 38.4



#46
cis-1,3-Dichloropropene
Concen: 0.349 ppbv m
RT: 8.163 min Scan# 1729
Delta R.T. 0.006 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

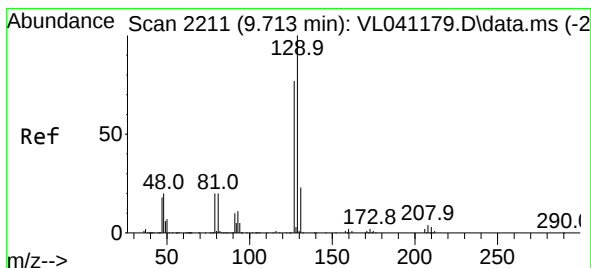
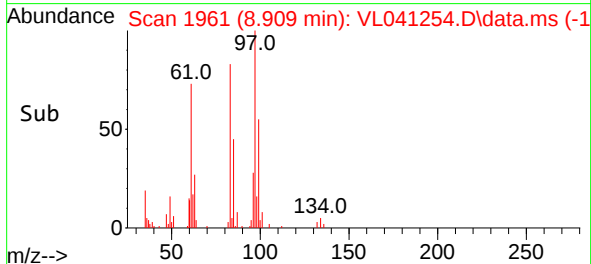
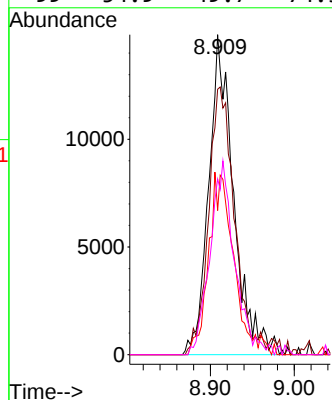
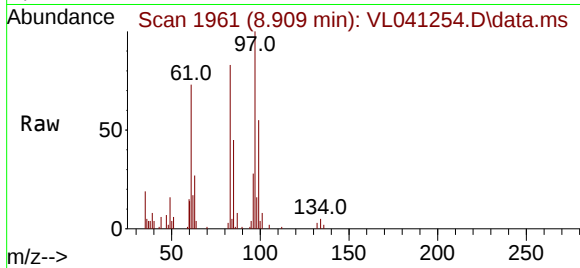
Tgt Ion: 75 Resp: 21596
Ion Ratio Lower Upper
75 100
39 77.5 59.4 89.2
77 21.3 25.9 38.9#





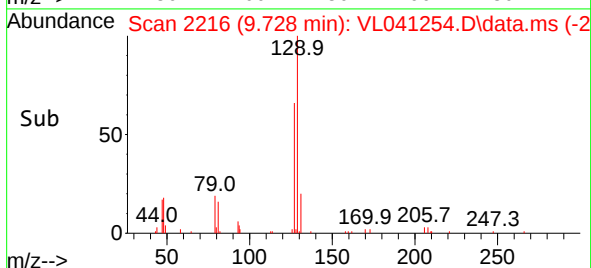
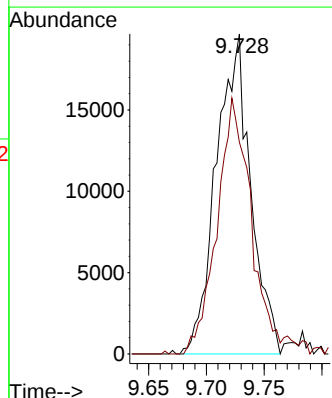
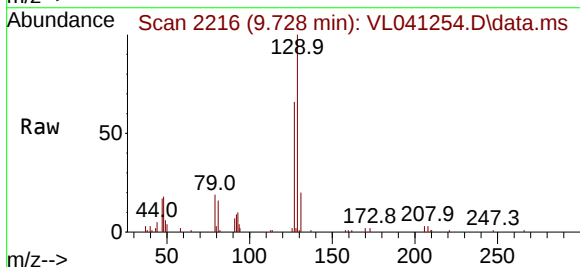
#47
1,1,2-Trichloroethane
Concen: 0.460 ppbv m
RT: 8.909 min Scan# 1961
Delta R.T. -0.007 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

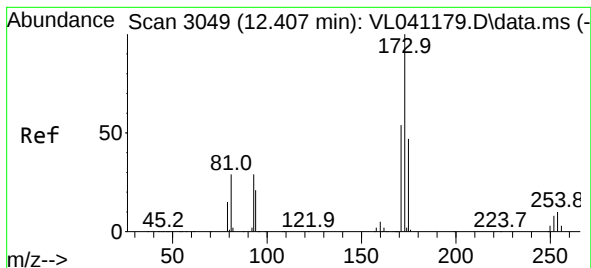
Tgt Ion: 97	Resp: 30639
Ion Ratio	Lower Upper
97 100	
83 82.9	71.2 106.8
85 45.1	46.0 69.0#
99 54.9	49.7 74.5



#48
Dibromochloromethane
Concen: 0.383 ppbv
RT: 9.728 min Scan# 2216
Delta R.T. 0.003 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

Tgt Ion:129	Resp:	40647	
Ion	Ratio	Lower	Upper
129	100		
127	82.1	39.1	117.5





#49

Bromoform

Concen: 0.332 ppbv m

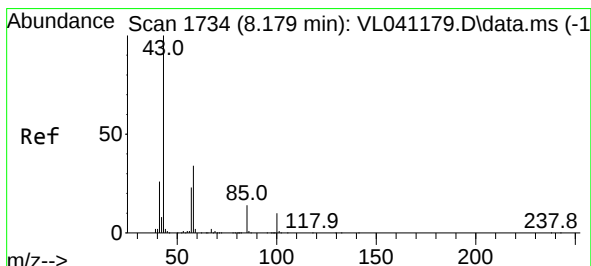
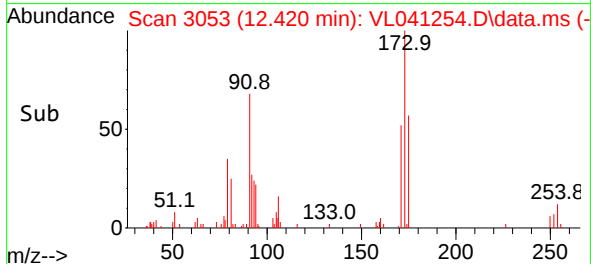
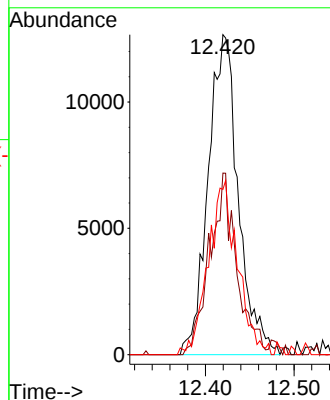
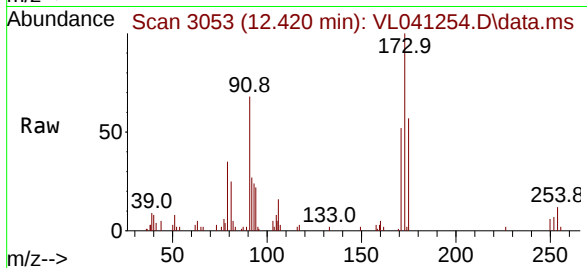
RT: 12.420 min Scan# 3053

Delta R.T. -0.000 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

Tgt Ion:173	Resp:	29955
Ion Ratio	Lower	Upper
173	100	
175	52.3	39.8 59.8
171	52.5	41.8 62.8



#50

4-Methyl-2-Pentanone

Concen: 0.390 ppbv m

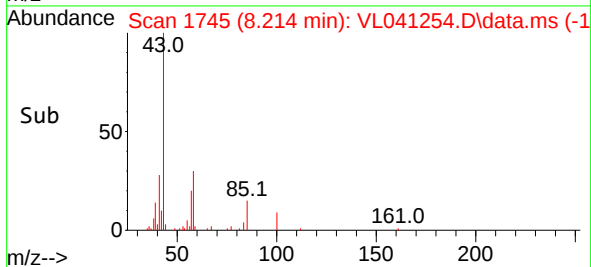
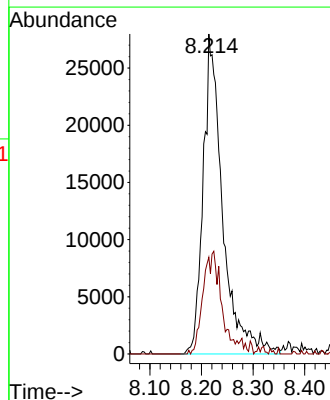
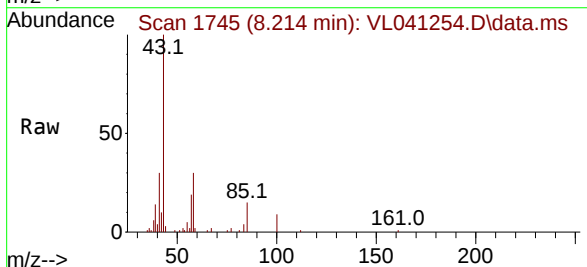
RT: 8.214 min Scan# 1745

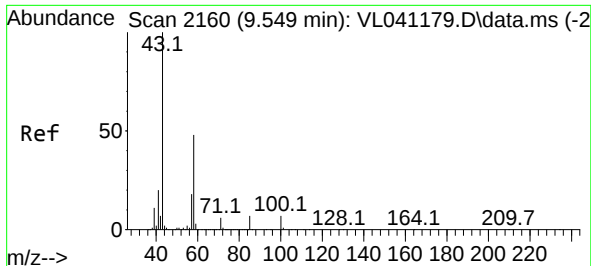
Delta R.T. 0.019 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

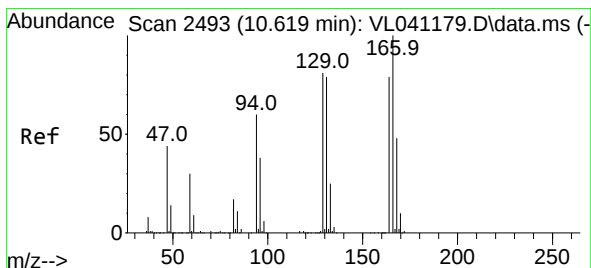
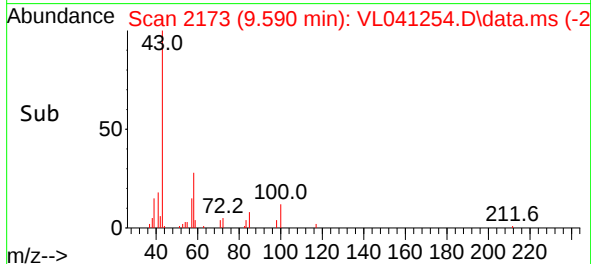
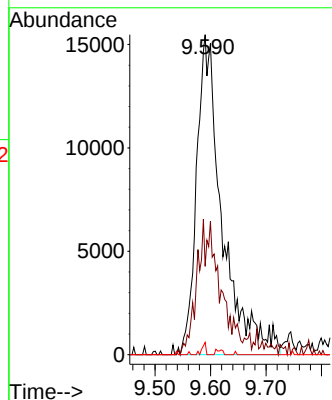
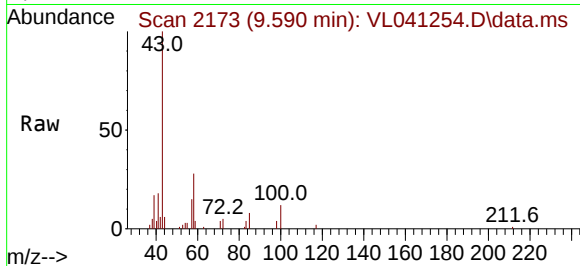
Tgt Ion: 43	Resp:	73281
Ion Ratio	Lower	Upper
43	100	
58	0.0	27.7 41.5#





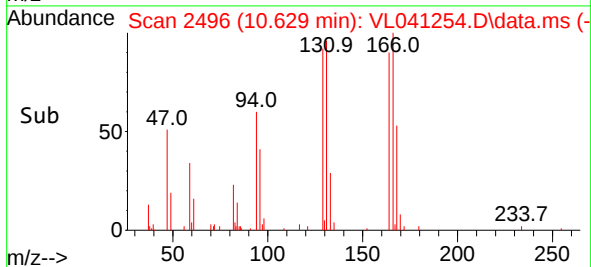
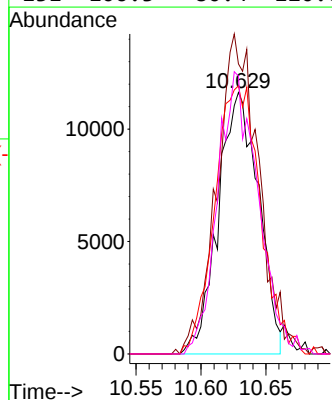
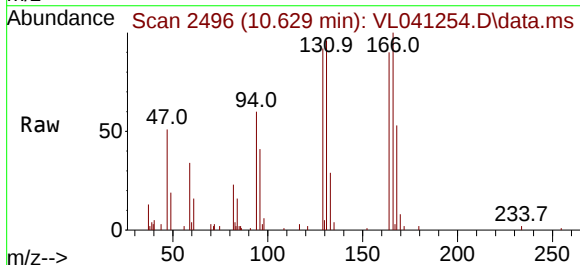
#51
2-Hexanone
Concen: 0.355 ppbv m
RT: 9.590 min Scan# 2173
Delta R.T. 0.026 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

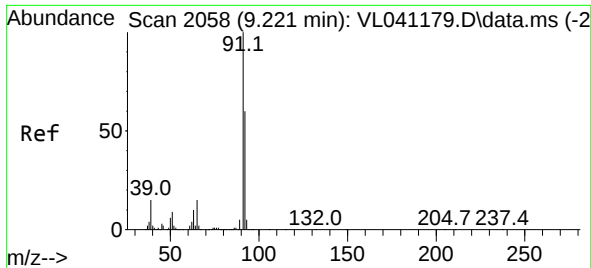
Tgt Ion: 43 Resp: 49414
Ion Ratio Lower Upper
43 100
58 40.5 38.4 57.6
98 0.6 0.0 0.0#



#52
Tetrachloroethene
Concen: 0.413 ppbv
RT: 10.629 min Scan# 2496
Delta R.T. -0.000 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

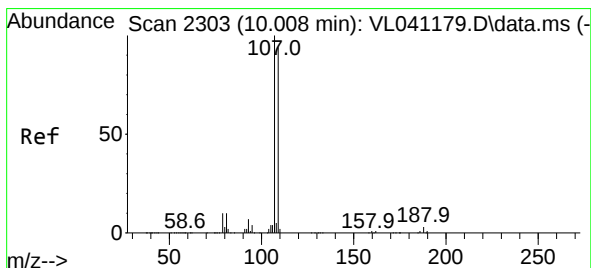
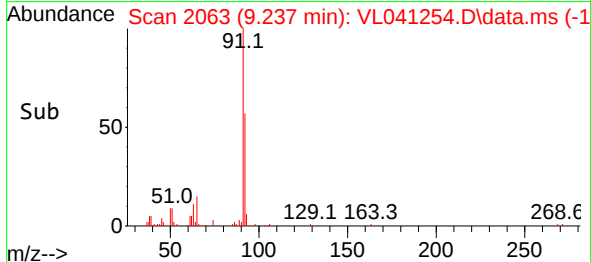
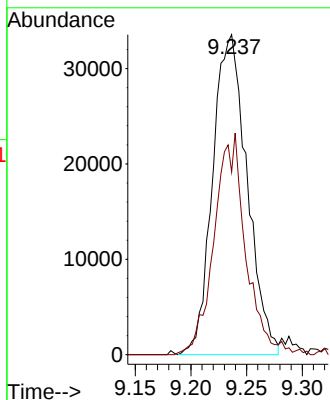
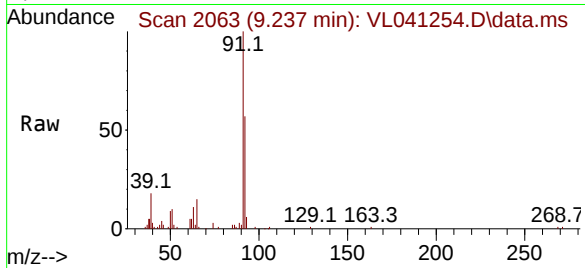
Tgt Ion: 164 Resp: 25058
Ion Ratio Lower Upper
164 100
166 111.0 101.1 151.7
129 102.6 81.7 122.5
131 106.3 80.4 120.6





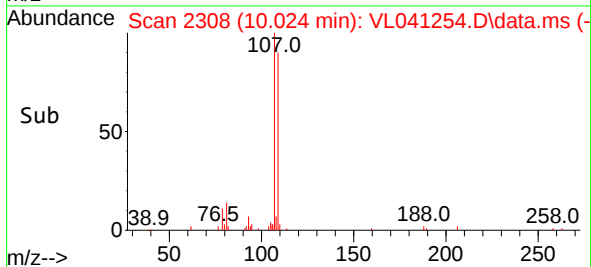
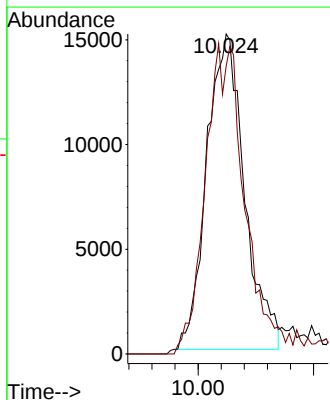
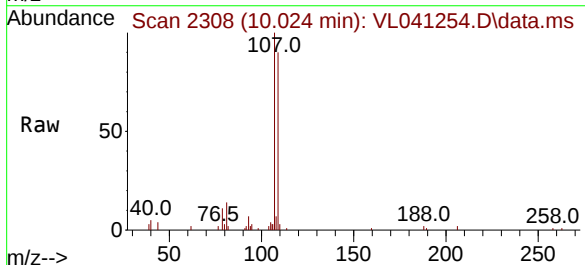
#53
Toluene
Concen: 0.361 ppbv
RT: 9.237 min Scan# 2063
Delta R.T. 0.003 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

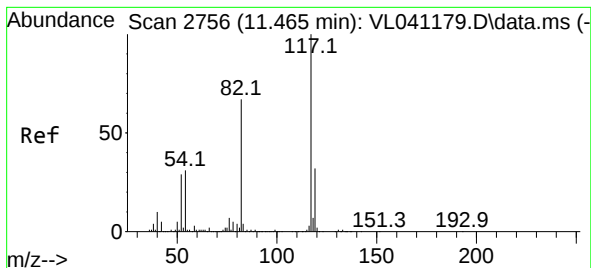
Tgt Ion: 91 Resp: 72204
Ion Ratio Lower Upper
91 100
92 63.6 48.2 72.4



#54
1,2-Dibromoethane
Concen: 0.380 ppbv
RT: 10.024 min Scan# 2308
Delta R.T. 0.003 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

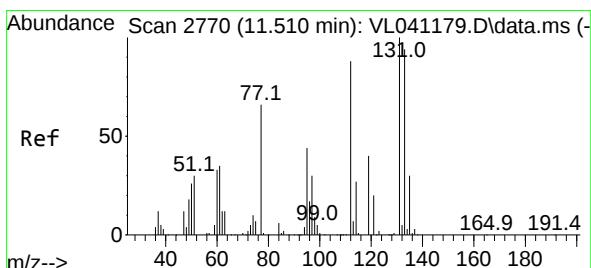
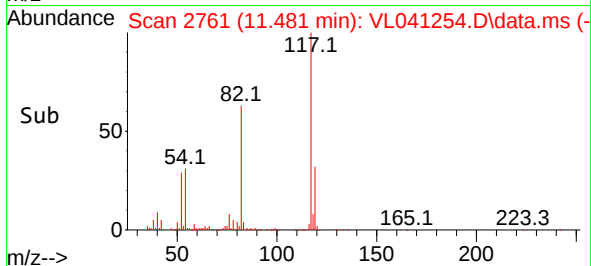
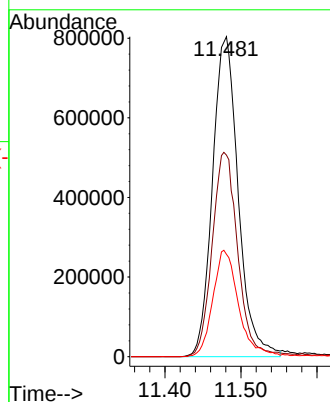
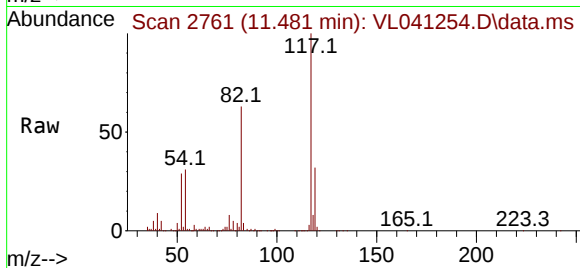
Tgt Ion: 107 Resp: 34293
Ion Ratio Lower Upper
107 100
109 88.5 75.2 112.8





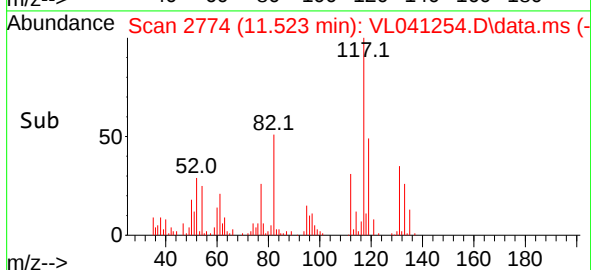
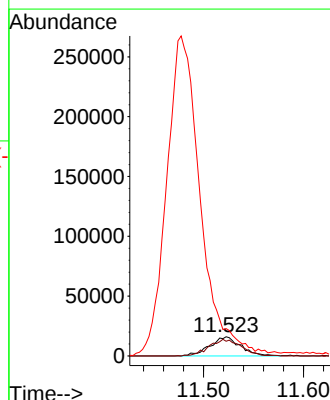
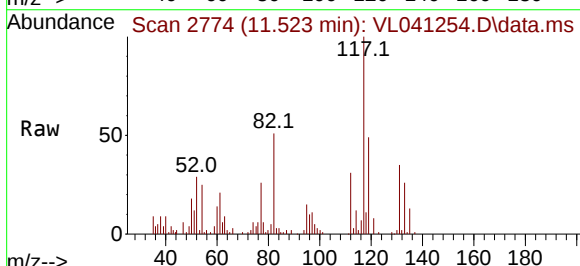
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.481 min Scan# 2761
Delta R.T. -0.000 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

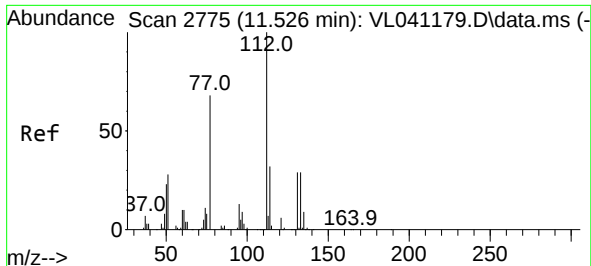
Tgt Ion:117 Resp: 1891052
Ion Ratio Lower Upper
117 100
82 64.5 53.6 80.4
119 33.4 27.2 40.8



#56
1,1,1,2-Tetrachloroethane
Concen: 0.446 ppbv m
RT: 11.523 min Scan# 2774
Delta R.T. -0.000 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

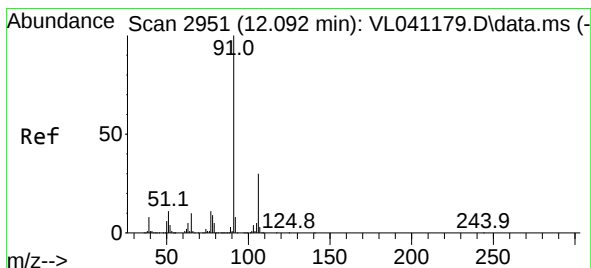
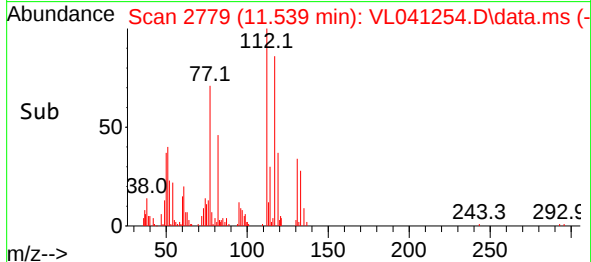
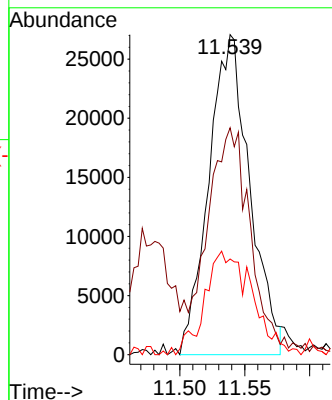
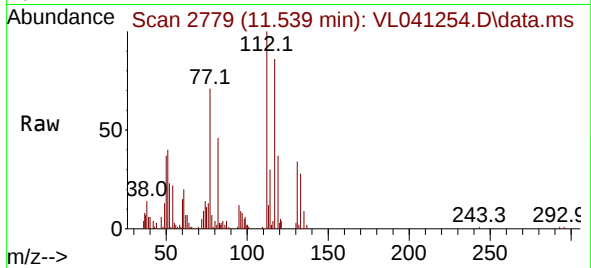
Tgt Ion:131 Resp: 34177
Ion Ratio Lower Upper
131 100
133 91.3 76.3 114.5
119 0.0 49.4 74.2#





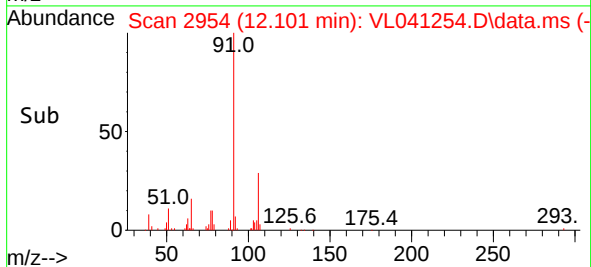
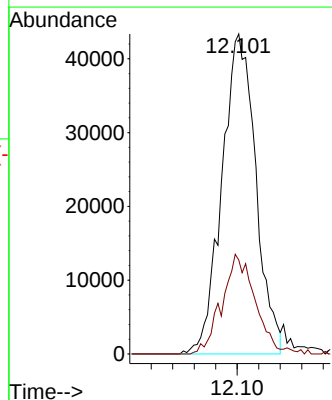
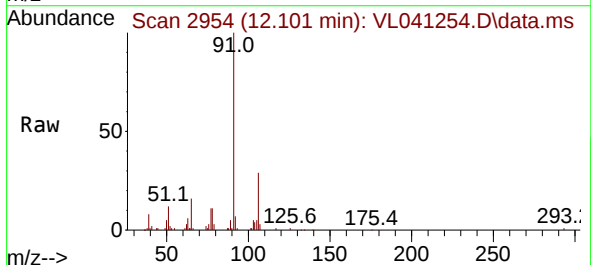
#57
Chlorobenzene
Concen: 0.427 ppbv
RT: 11.539 min Scan# 2779
Delta R.T. -0.003 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

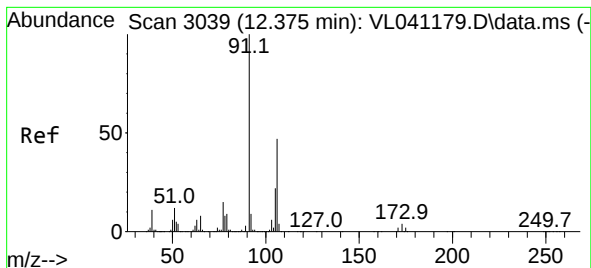
Tgt Ion:112 Resp: 59154
Ion Ratio Lower Upper
112 100
77 67.7 54.9 82.3
114 28.1 28.7 35.1#



#58
Ethyl Benzene
Concen: 0.366 ppbv
RT: 12.101 min Scan# 2954
Delta R.T. -0.000 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

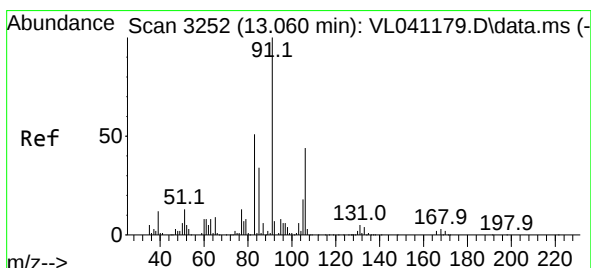
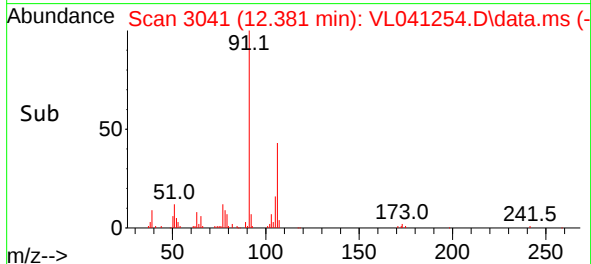
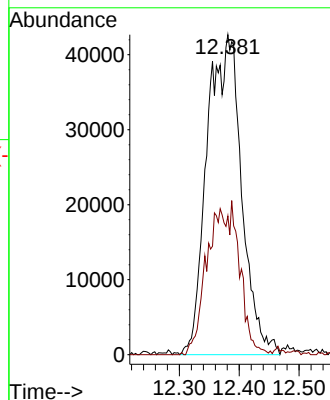
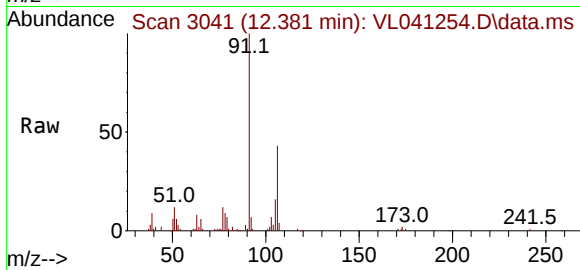
Tgt Ion: 91 Resp: 94793
Ion Ratio Lower Upper
91 100
106 29.4 24.3 36.5





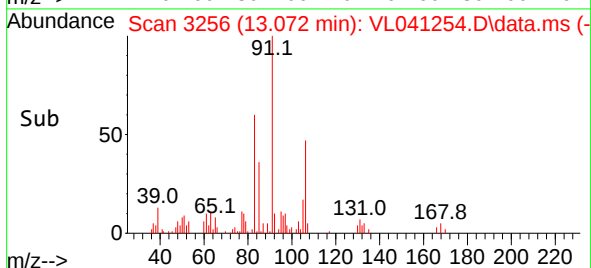
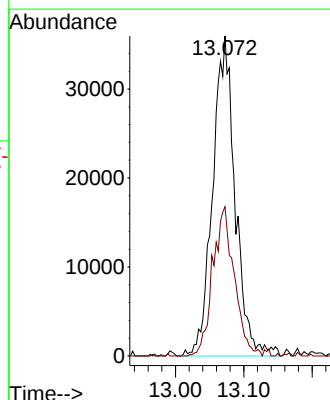
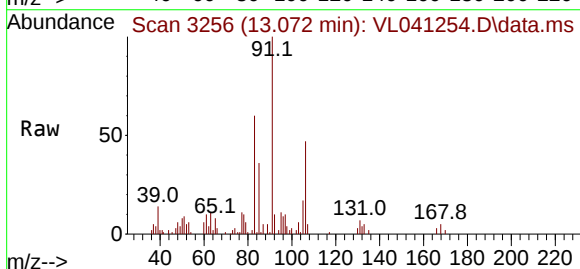
#59
m/p-Xylene
Concen: 0.783 ppbv m
RT: 12.381 min Scan# 3041
Delta R.T. -0.003 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

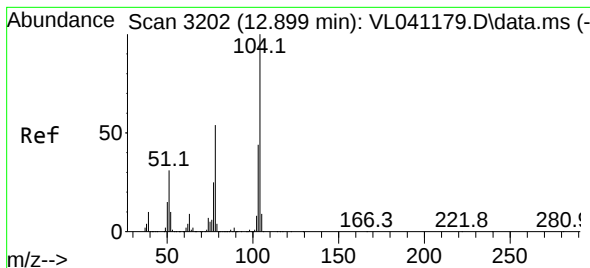
Tgt Ion: 91 Resp: 170653
Ion Ratio Lower Upper
91 100
106 44.0 35.7 53.5



#60
o-Xylene
Concen: 0.403 ppbv m
RT: 13.072 min Scan# 3256
Delta R.T. 0.003 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

Tgt Ion: 91 Resp: 82411
Ion Ratio Lower Upper
91 100
106 0.0 22.4 67.3#





#61

Styrene

Concen: 0.318 ppbv m

RT: 12.912 min Scan# 3206

Delta R.T. 0.003 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

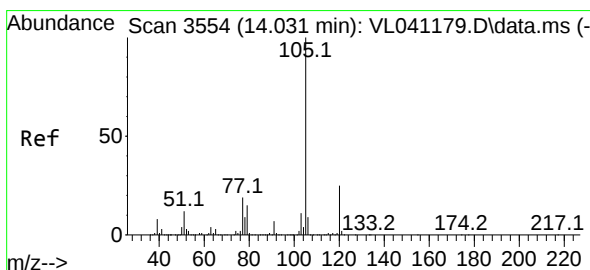
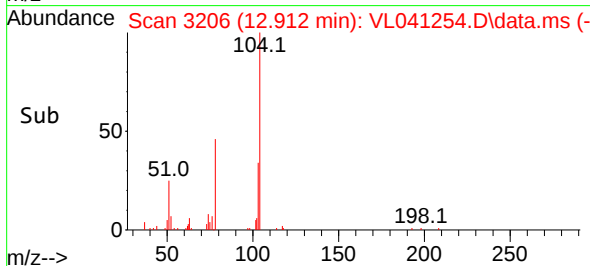
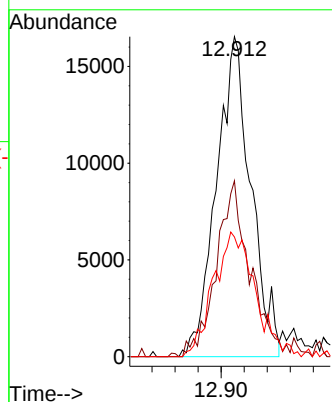
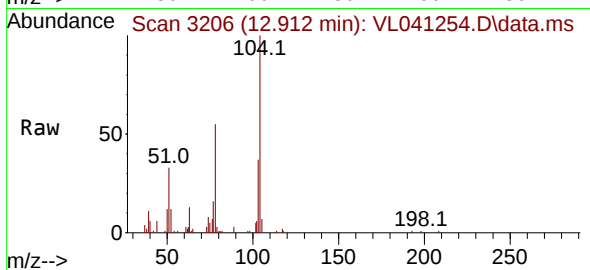
Tgt Ion:104 Resp: 34332

Ion Ratio Lower Upper

104 100

78 56.4 42.6 63.8

103 47.9 38.4 57.6



#62

Isopropylbenzene

Concen: 0.409 ppbv

RT: 14.040 min Scan# 3557

Delta R.T. -0.003 min

Lab File: VL041254.D

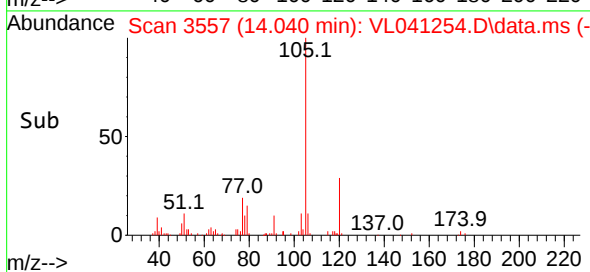
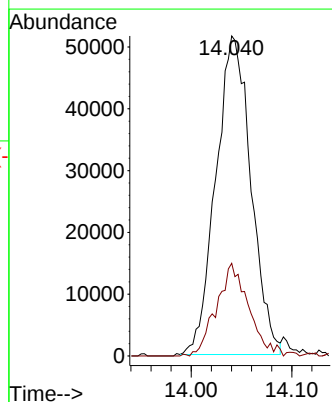
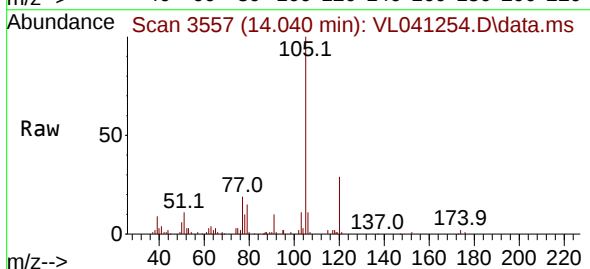
Acq: 9 May 2024 12:07

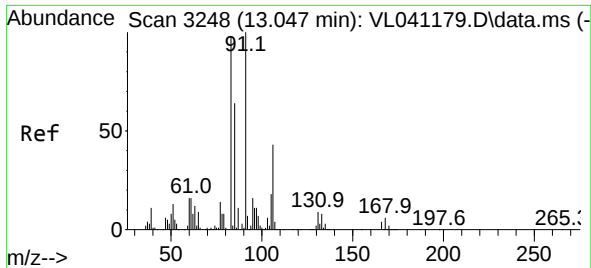
Tgt Ion:105 Resp: 124979

Ion Ratio Lower Upper

105 100

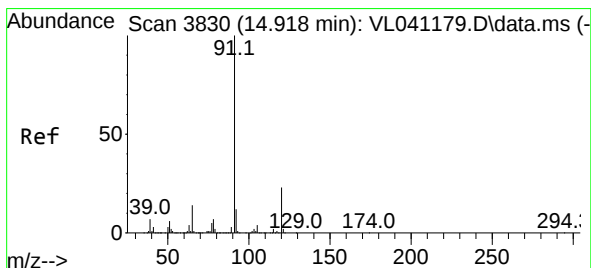
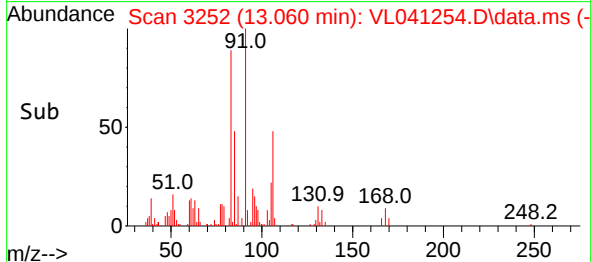
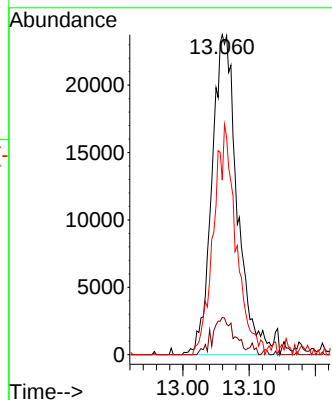
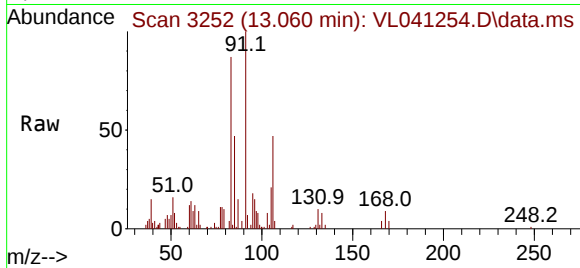
120 26.6 20.2 30.2





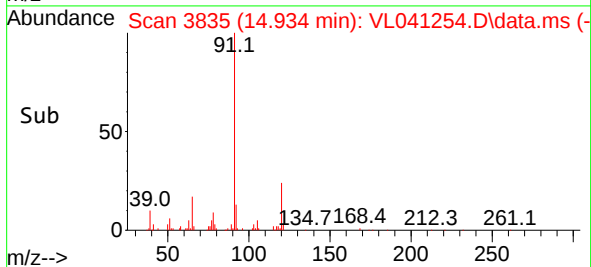
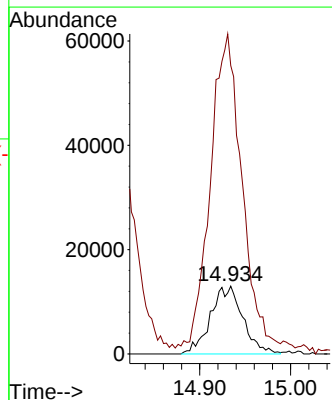
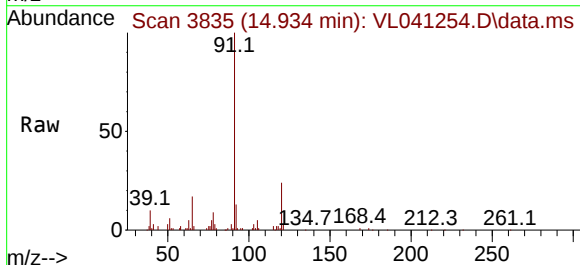
#63
1,1,2,2-Tetrachloroethane
Concen: 0.460 ppbv m
RT: 13.060 min Scan# 3252
Delta R.T. -0.000 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

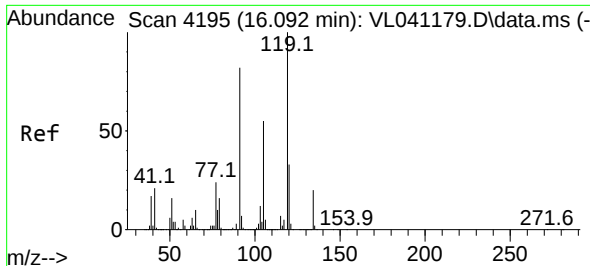
Tgt Ion: 83 Resp: 63985
Ion Ratio Lower Upper
83 100
131 11.0 4.5 13.5
85 0.0 32.7 98.1#



#64
n-propylbenzene
Concen: 0.421 ppbv m
RT: 14.934 min Scan# 3835
Delta R.T. 0.003 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

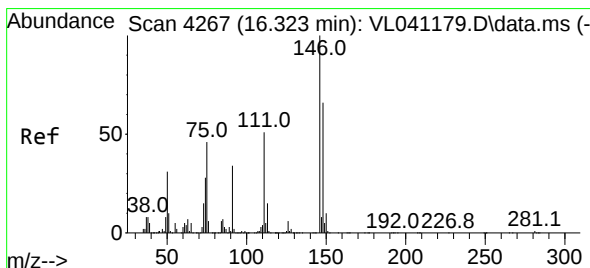
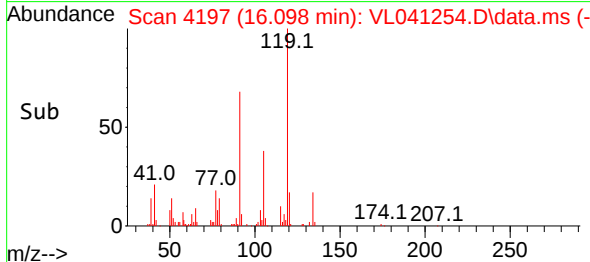
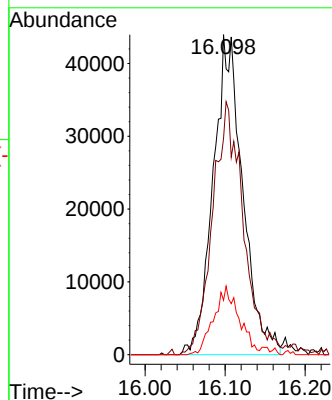
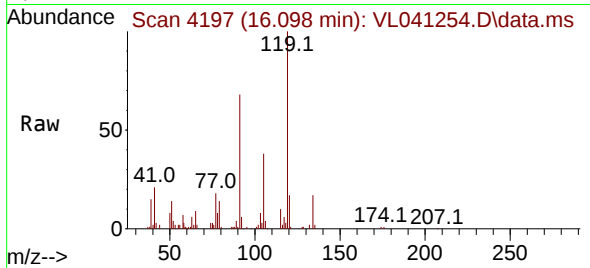
Tgt Ion: 120 Resp: 32067
Ion Ratio Lower Upper
120 100
91 483.3 384.8 577.2





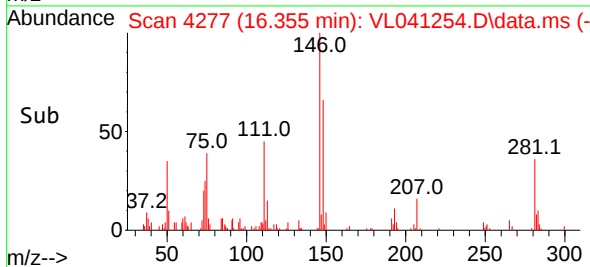
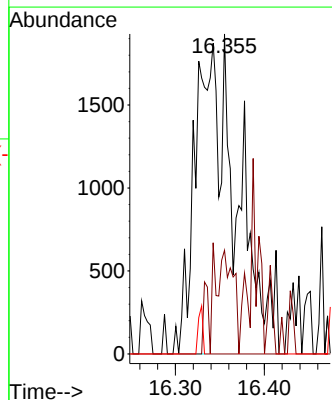
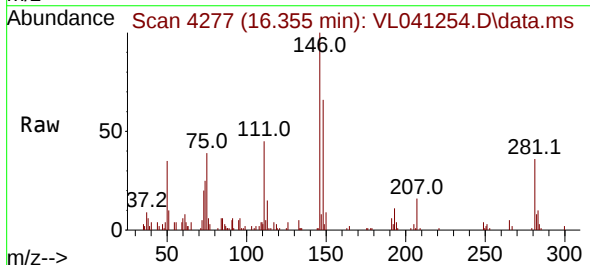
#65
tert-Butylbenzene
Concen: 0.411 ppbv m
RT: 16.098 min Scan# 4197
Delta R.T. -0.003 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

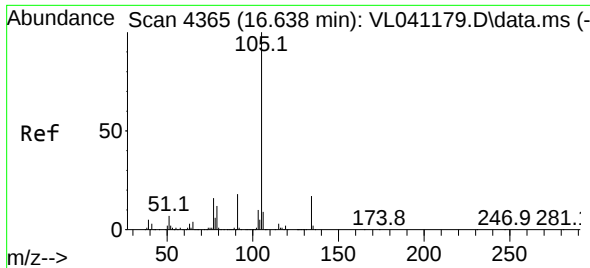
Tgt Ion: 119 Resp: 112512
Ion Ratio Lower Upper
119 100
91 84.4 67.0 100.4
134 19.5 15.2 22.8



#66
Benzyl Chloride
Concen: 0.195 ppbv m
RT: 16.355 min Scan# 4277
Delta R.T. 0.010 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

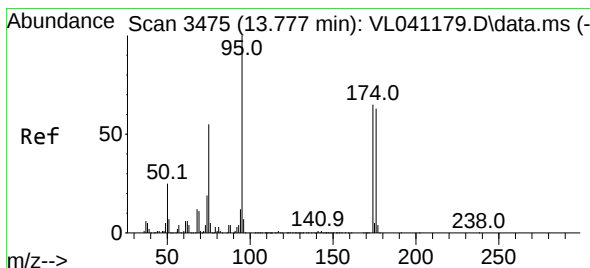
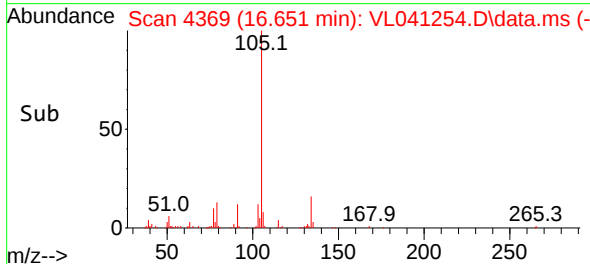
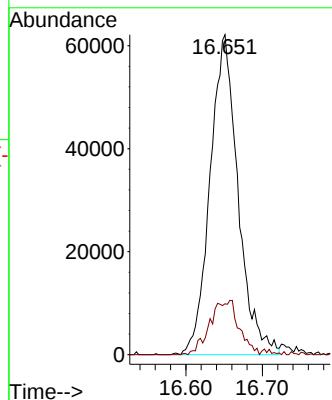
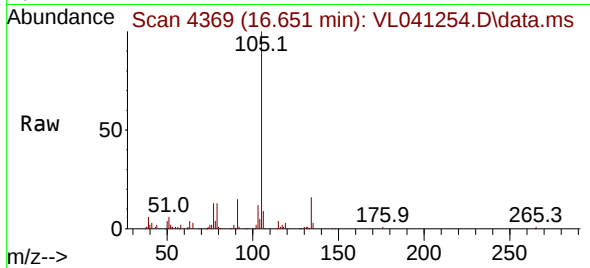
Tgt Ion: 91 Resp: 6045
Ion Ratio Lower Upper
91 100
126 21.1 14.6 21.8
128 0.0 4.7 7.1#





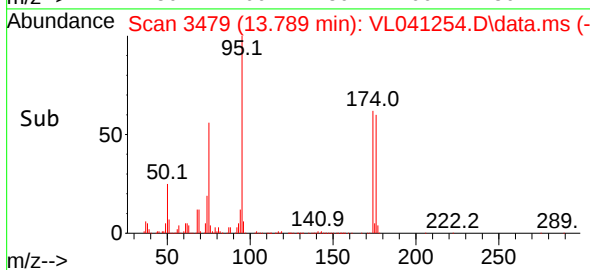
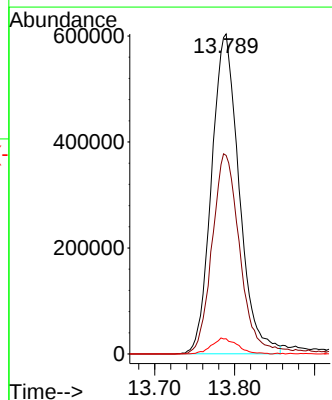
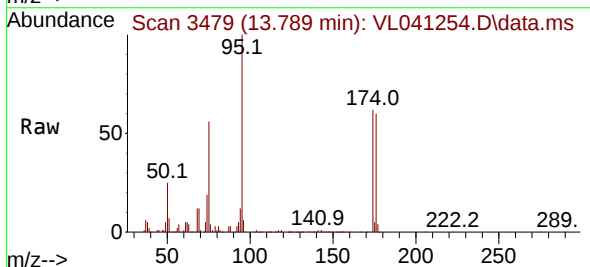
#67
 sec-Butylbenzene
 Concen: 0.410 ppbv m
 RT: 16.651 min Scan# 4369
 Delta R.T. 0.003 min
 Lab File: VL041254.D
 Acq: 9 May 2024 12:07

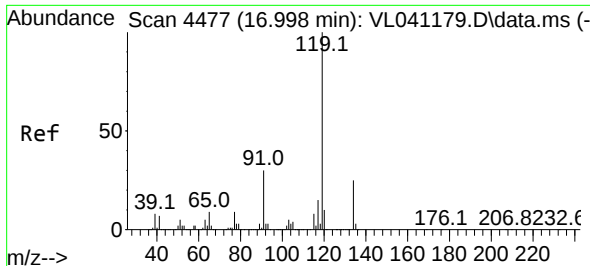
Tgt Ion:105 Resp: 158060
 Ion Ratio Lower Upper
 105 100
 134 18.2 13.8 20.8



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.137 ppbv
 RT: 13.789 min Scan# 3479
 Delta R.T. 0.003 min
 Lab File: VL041254.D
 Acq: 9 May 2024 12:07

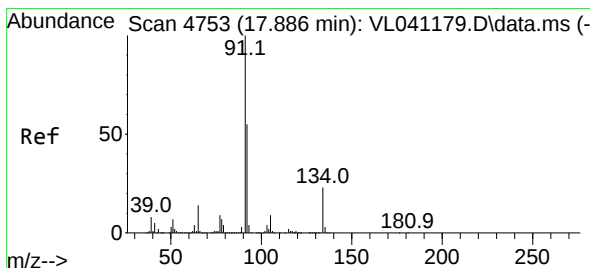
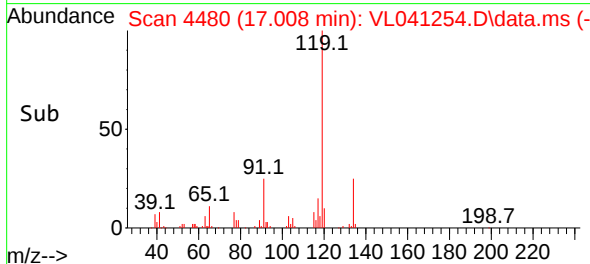
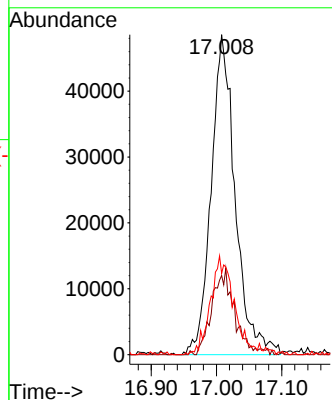
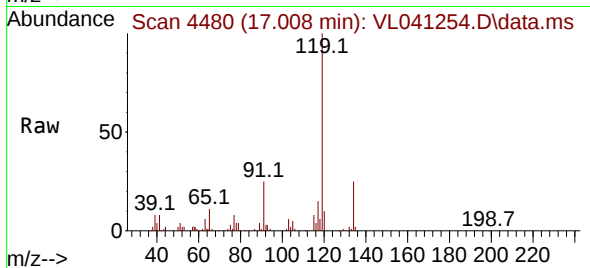
Tgt Ion: 95 Resp: 1447270
 Ion Ratio Lower Upper
 95 100
 174 65.0 53.6 80.4
 175 4.7 4.2 6.4





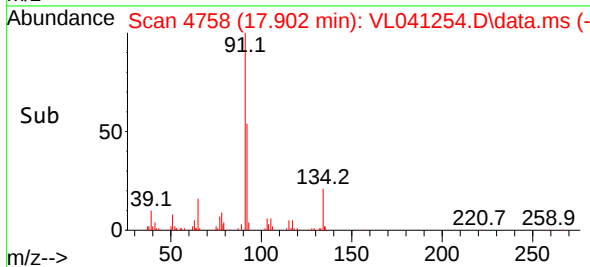
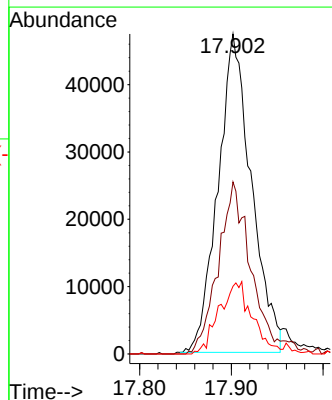
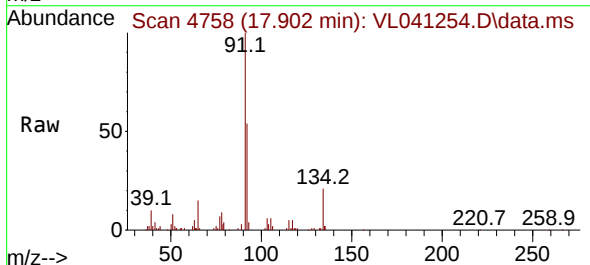
#69
p-Isopropyltoluene
Concen: 0.392 ppbv m
RT: 17.008 min Scan# 4480
Delta R.T. -0.000 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

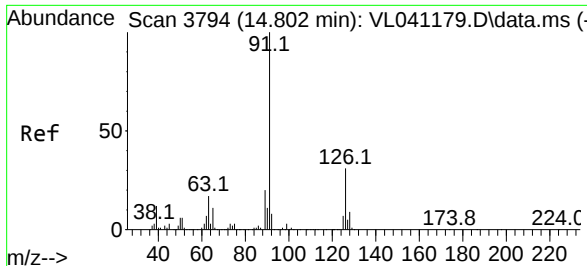
Tgt Ion: 119 Resp: 124379
Ion Ratio Lower Upper
119 100
134 0.0 20.1 30.1#
91 31.0 24.2 36.2



#70
n-Butylbenzene
Concen: 0.361 ppbv
RT: 17.902 min Scan# 4758
Delta R.T. 0.003 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

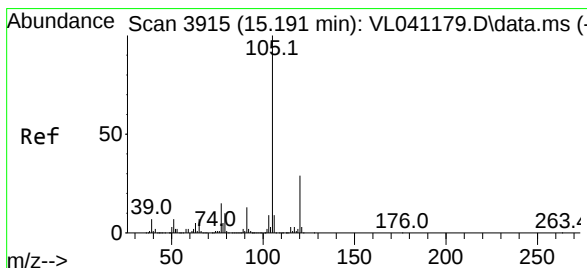
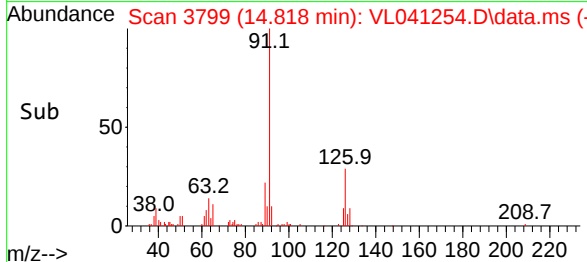
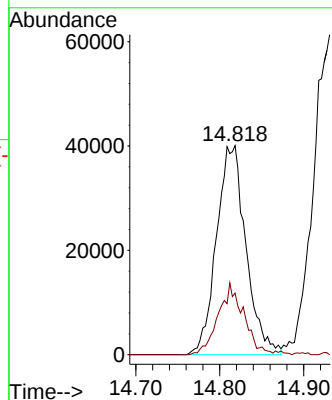
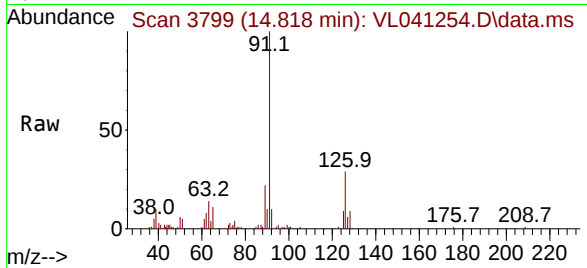
Tgt Ion: 91 Resp: 119642
Ion Ratio Lower Upper
91 100
92 54.1 43.3 64.9
134 23.5 17.8 26.8





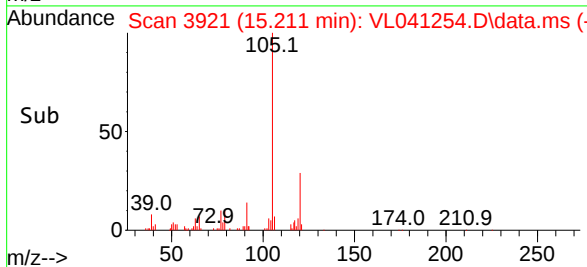
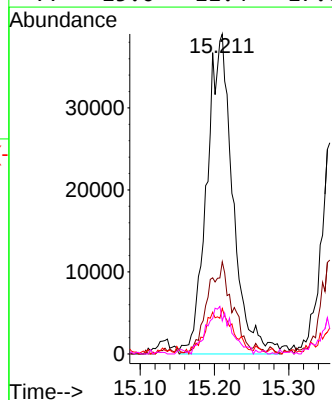
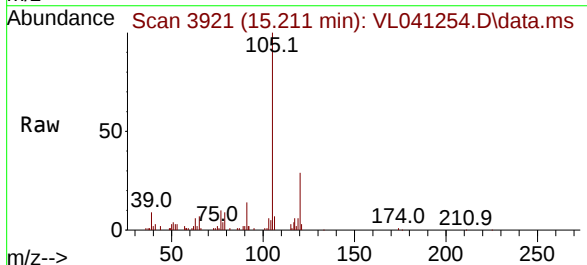
#71
2-Chlorotoluene
Concen: 0.421 ppbv m
RT: 14.818 min Scan# 3799
Delta R.T. 0.006 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

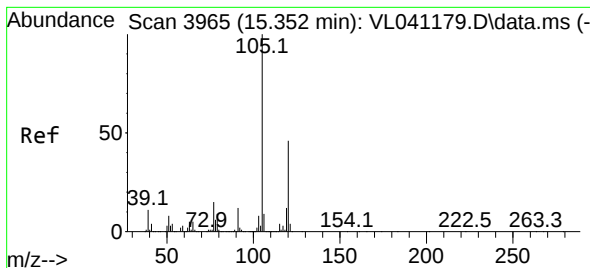
Tgt Ion: 91 Resp: 97886
Ion Ratio Lower Upper
91 100
126 30.3 12.2 48.8



#72
4-Ethyltoluene
Concen: 0.410 ppbv m
RT: 15.211 min Scan# 3921
Delta R.T. 0.003 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

Tgt Ion: 105 Resp: 94766
Ion Ratio Lower Upper
105 100
120 29.1 24.7 37.1
91 14.6 10.3 15.5
77 15.0 11.4 17.0





#73

1,3,5-Trimethylbenzene

Concen: 0.391 ppbv m

RT: 15.365 min Scan# 3969

Delta R.T. -0.000 min

Lab File: VL041254.D

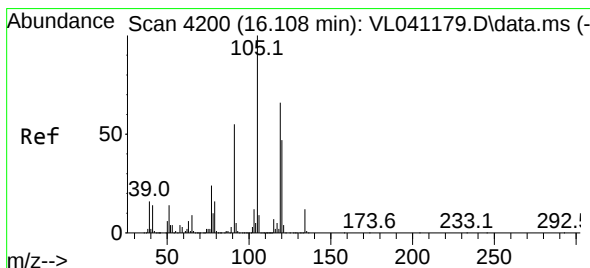
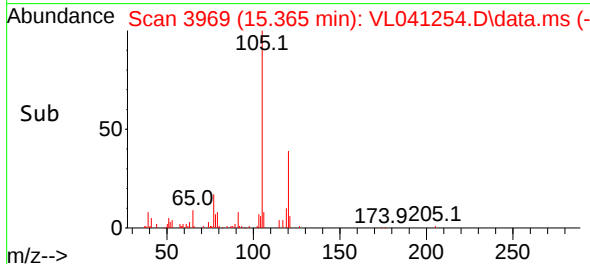
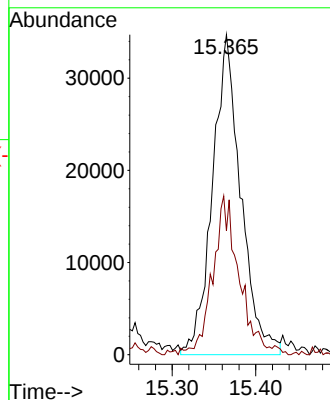
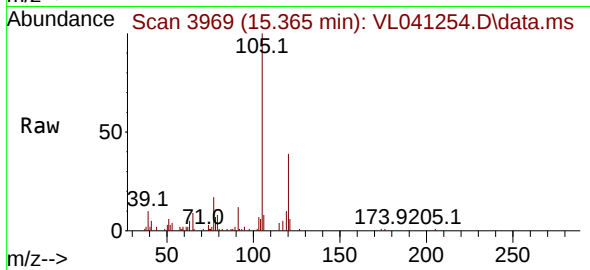
Acq: 9 May 2024 12:07

Tgt Ion:105 Resp: 81842

Ion Ratio Lower Upper

105 100

120 38.7 37.0 55.4



#74

1,2,4-Trimethylbenzene

Concen: 0.403 ppbv m

RT: 16.120 min Scan# 4204

Delta R.T. -0.000 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

Tgt Ion:105 Resp: 92058

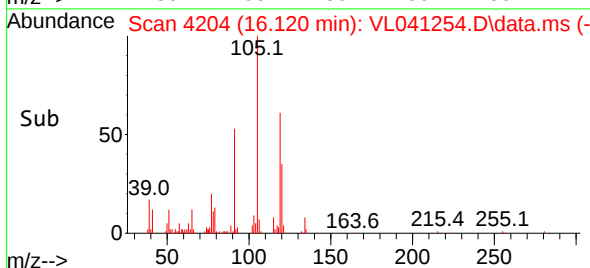
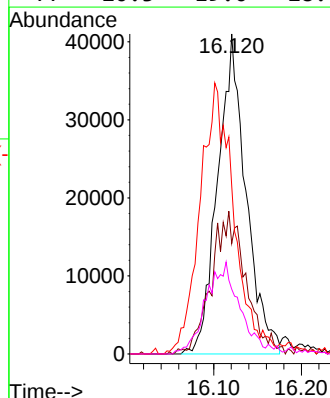
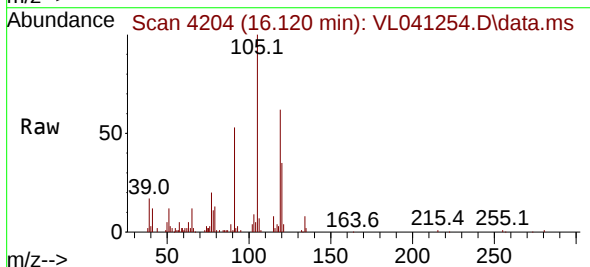
Ion Ratio Lower Upper

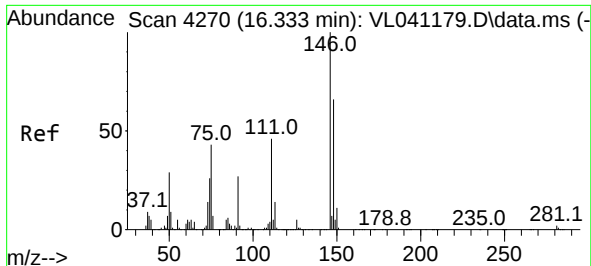
105 100

120 34.6 37.8 56.6#

91 52.6 44.3 66.5

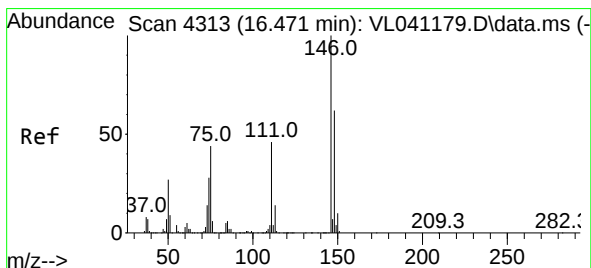
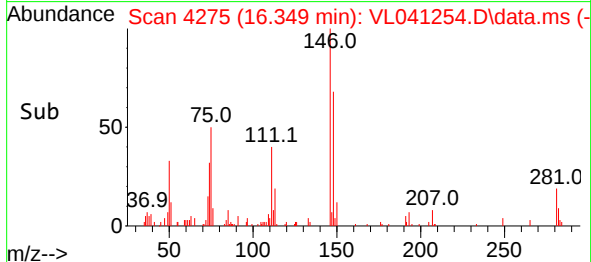
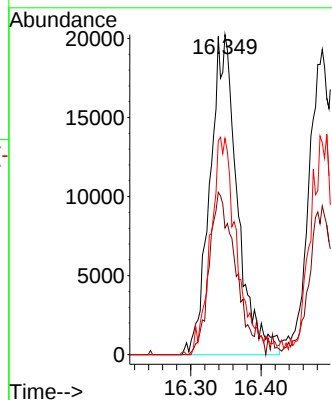
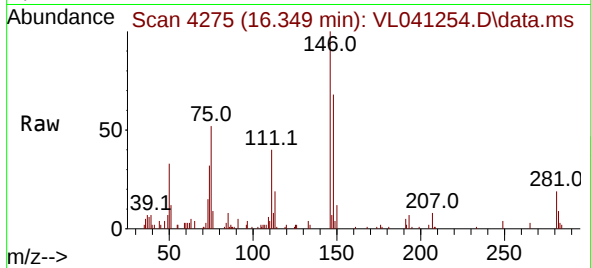
77 20.3 19.0 28.4





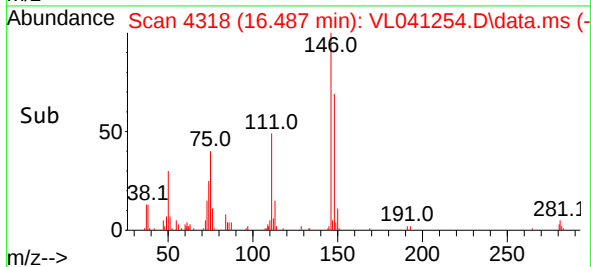
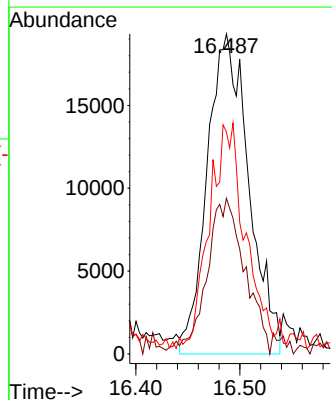
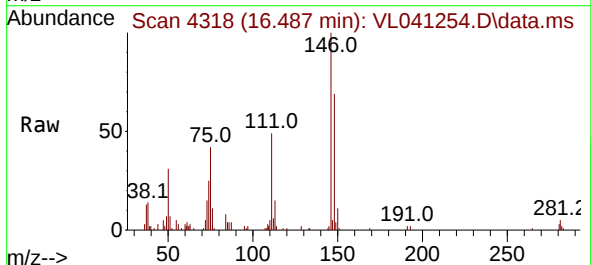
#75
1,3-Dichlorobenzene
Concen: 0.420 ppbv m
RT: 16.349 min Scan# 4275
Delta R.T. 0.006 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

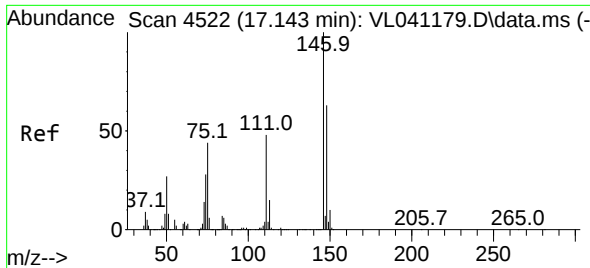
Tgt Ion:146 Resp: 55092
Ion Ratio Lower Upper
146 100
111 50.7 23.7 71.1
148 66.6 32.5 97.4



#76
1,4-Dichlorobenzene
Concen: 0.426 ppbv m
RT: 16.487 min Scan# 4318
Delta R.T. 0.003 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

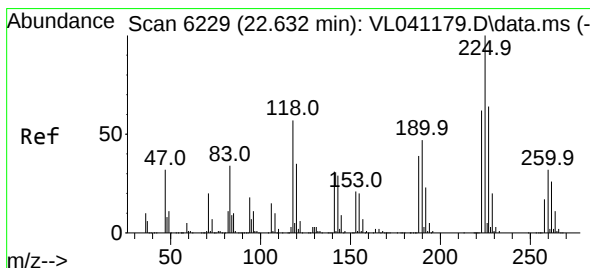
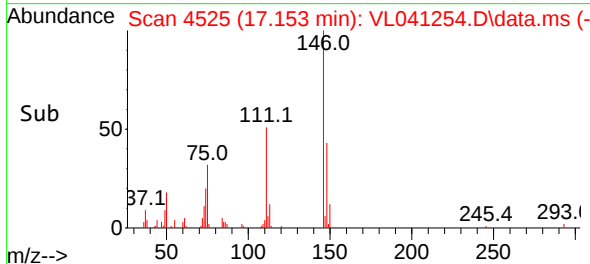
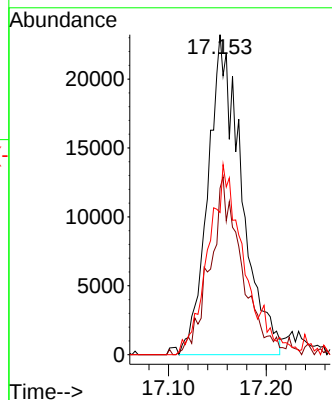
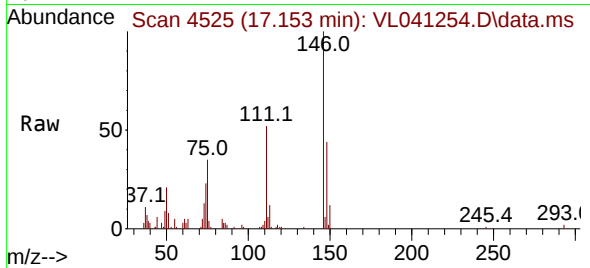
Tgt Ion:146 Resp: 53651
Ion Ratio Lower Upper
146 100
111 47.0 23.3 69.8
148 0.0 32.6 97.7#





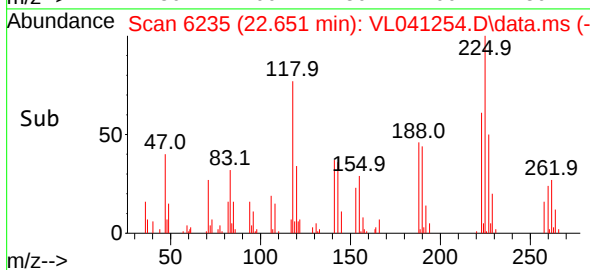
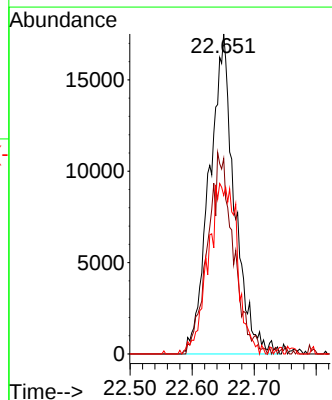
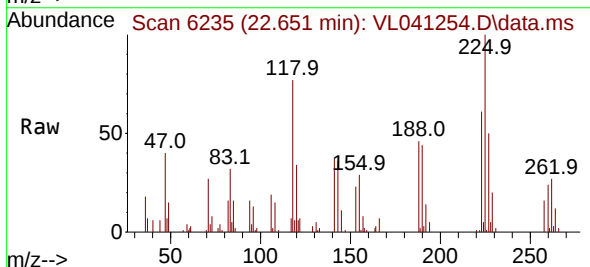
#77
1,2-Dichlorobenzene
Concen: 0.424 ppbv m
RT: 17.153 min Scan# 4525
Delta R.T. -0.006 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

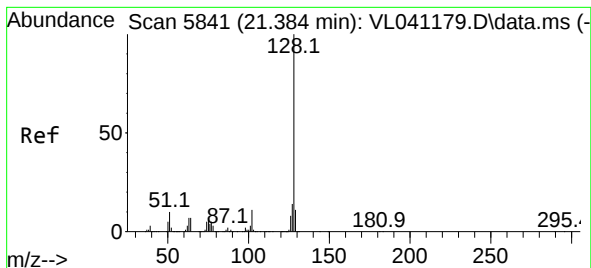
Tgt Ion:146 Resp: 55617
Ion Ratio Lower Upper
146 100
111 53.7 24.5 73.5
148 65.2 32.6 98.0



#78
Hexachloro-1,3-Butadiene
Concen: 0.425 ppbv m
RT: 22.651 min Scan# 6235
Delta R.T. 0.003 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

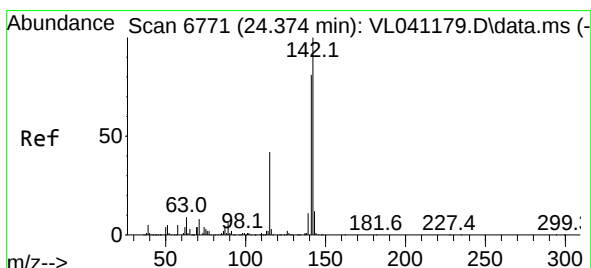
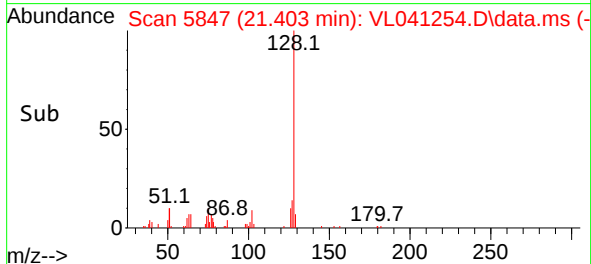
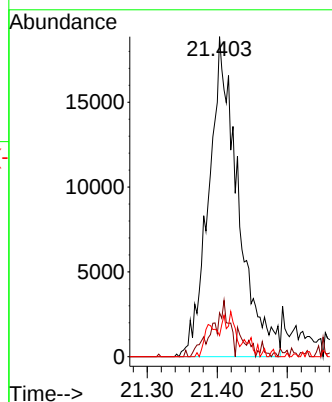
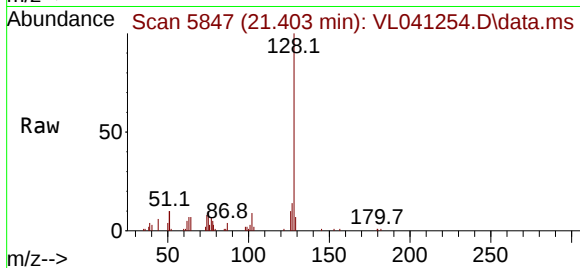
Tgt Ion:225 Resp: 49532
Ion Ratio Lower Upper
225 100
223 65.1 50.9 76.3
227 62.0 52.0 78.0





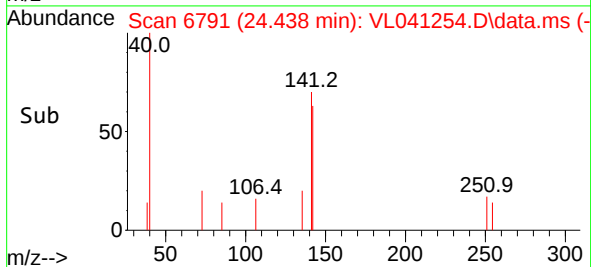
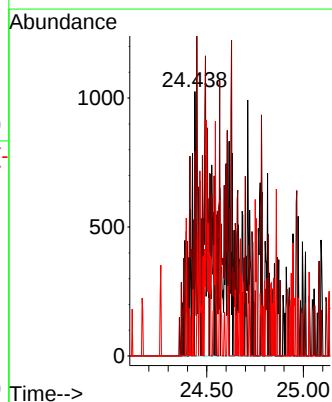
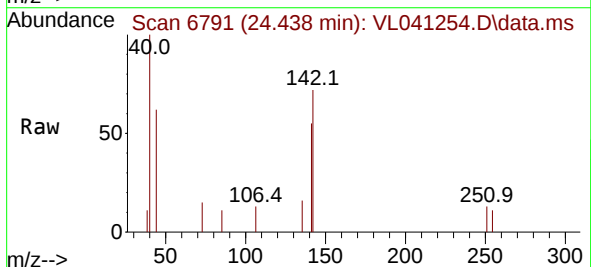
#79
Naphthalene
Concen: 0.254 ppbv m
RT: 21.403 min Scan# 5847
Delta R.T. 0.003 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

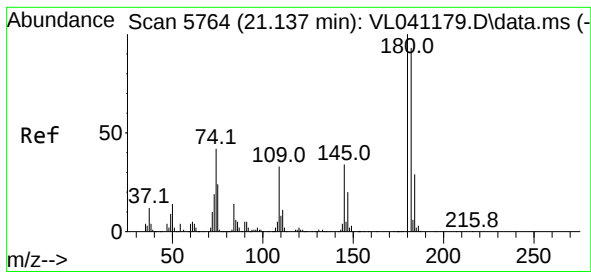
Tgt Ion:128 Resp: 55294
Ion Ratio Lower Upper
128 100
127 13.7 10.8 16.2
129 6.6 8.9 13.3#



#80
Naphthalene,2-methyl-
Concen: 0.105 ppbv m
RT: 24.438 min Scan# 6791
Delta R.T. 0.051 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

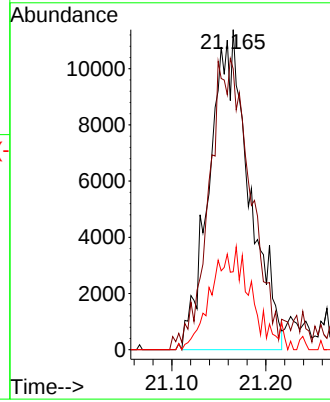
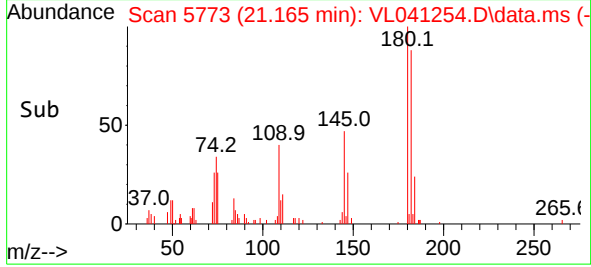
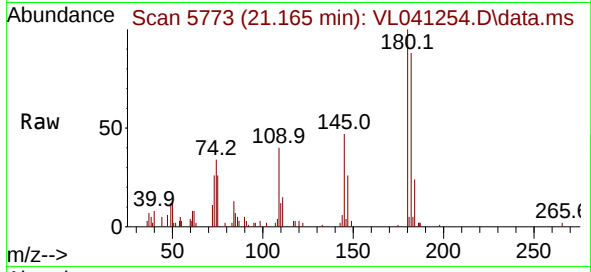
Tgt Ion:142 Resp: 9221
Ion Ratio Lower Upper
142 100
141 5.7 67.9 101.9#
115 2.1 31.4 47.0#





#81
 1,2,4-Trichlorobenzene
 Concen: 0.290 ppbv m
 RT: 21.165 min Scan# 5773
 Delta R.T. 0.013 min
 Lab File: VL041254.D
 Acq: 9 May 2024 12:07

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	77.2	115.8#
184	0.0	24.6	36.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050924\
 Data File : VL041255.D
 Acq On : 9 May 2024 12:45
 Operator : SY/MD
 Sample : P2403-15 MDL 0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 10 01:59:56 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

QLast Update : Fri May 10 01:23:08 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.211	49	758857	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.671	114	2003593	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.481	117	1830382	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.793	95	1407371	10.185	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.755	85	16828m	0.164	ppbv	
3) Chlorodifluoromethane	2.697	51	13439	0.117	ppbv	97
4) Chloromethane	2.835	50	4982	0.110	ppbv	92
5) Vinyl Chloride	2.944	62	4778	0.105	ppbv #	87
6) Bromomethane	3.144	94	1844m	0.111	ppbv	
7) Chloroethane	3.224	64	1681m	0.105	ppbv	
8) Dichlorotetrafluoroethane	2.880	85	12371	0.116	ppbv	94
9) Propene	2.719	41	7339m	0.163	ppbv	
10) Heptane	7.606	43	10030m	0.092	ppbv	
11) Trichlorofluoromethane	3.584	101	10806	0.104	ppbv	93
12) 1,1,2-Trichlorotrifluo...	4.086	101	8456	0.110	ppbv	89
13) Ethanol	3.285	45	1663m	0.164	ppbv	
14) Bromoethene	3.388	108	3715	0.117	ppbv #	86
15) Acetone	3.517	43	20665	0.231	ppbv #	85
16) 1,3-Butadiene	3.005	39	5268m	0.117	ppbv	
17) tert-Butyl alcohol	3.928	59	10050m	0.104	ppbv	
18) 1,1-Dichloroethene	3.906	96	3969m	0.115	ppbv	
19) Isopropyl Alcohol	3.623	45	6519m	0.111	ppbv	
20) Methylene Chloride	3.957	84	8566m	0.275	ppbv	
21) Allyl Chloride	4.018	41	6866m	0.118	ppbv	
22) trans-1,2-Dichloroethene	4.471	96	4499m	0.126	ppbv	
23) Vinyl Acetate	4.658	43	8800m	0.089	ppbv	
24) 1,1-Dichloroethane	4.584	63	9181m	0.120	ppbv	
25) Ethyl Acetate	5.237	43	16976m	0.095	ppbv	
26) Hexane	5.237	57	8117m	0.102	ppbv	
27) Carbon Disulfide	4.150	76	8551	0.091	ppbv #	69
28) Methyl tert-Butyl Ether	4.626	73	6665m	0.105	ppbv	
29) Chloroform	5.291	83	11177	0.102	ppbv	87
30) Cyclohexane	6.623	84	6042m	0.096	ppbv	
31) cis-1,2-Dichloroethene	5.105	61	8199m	0.110	ppbv	
32) 1,1,1-Trichloroethane	6.018	97	11015m	0.100	ppbv	
34) 2-Butanone	4.828	43	13646m	0.134	ppbv	
35) Carbon Tetrachloride	6.510	117	11894m	0.106	ppbv	
36) Benzene	6.388	78	16684m	0.099	ppbv	
37) 1,2-Dichloroethane	5.832	62	9715	0.111	ppbv #	94
38) Trichloroethene	7.314	130	7088m	0.113	ppbv	
39) 1,2-Dichloropropane	7.095	63	8054m	0.124	ppbv	
40) 1,4-Dioxane	7.362	88	2583m	0.112	ppbv	
41) Tetrahydrofuran	5.623	42	6182m	0.084	ppbv	
42) Bromodichloromethane	7.266	83	13341m	0.106	ppbv	
43) Methyl Methacrylate	7.497	69	5863m	0.086	ppbv	
44) 2,2,4-Trimethylpentane	7.349	57	25878m	0.089	ppbv	
45) t-1,3-Dichloropropene	8.729	75	3263m	0.066	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050924\
 Data File : VL041255.D
 Acq On : 9 May 2024 12:45
 Operator : SY/MD
 Sample : P2403-15 MDL 0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 10 01:59:56 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

QLast Update : Fri May 10 01:23:08 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.169	75	4846m	0.080	ppbv	
47) 1,1,2-Trichloroethane	8.915	97	6131m	0.095	ppbv	
48) Dibromochloromethane	9.725	129	8868m	0.086	ppbv	
49) Bromoform	12.420	173	6541m	0.074	ppbv	
50) 4-Methyl-2-Pentanone	8.237	43	15872m	0.087	ppbv	
51) 2-Hexanone	9.600	43	10940m	0.081	ppbv	
52) Tetrachloroethene	10.638	164	6381m	0.108	ppbv	
53) Toluene	9.243	91	16464m	0.084	ppbv	
54) 1,2-Dibromoethane	10.031	107	7549m	0.086	ppbv	
56) 1,1,1,2-Tetrachloroethane	11.523	131	7623m	0.103	ppbv	
57) Chlorobenzene	11.536	112	16324m	0.122	ppbv	
58) Ethyl Benzene	12.098	91	22628m	0.090	ppbv	
59) m/p-Xylene	12.391	91	35467m	0.168	ppbv	
60) o-Xylene	13.076	91	16785m	0.085	ppbv	
61) Styrene	12.928	104	7553m	0.072	ppbv	
62) Isopropylbenzene	14.043	105	28401m	0.096	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.076	83	15747m	0.117	ppbv	
64) n-propylbenzene	14.944	120	7277m	0.099	ppbv	
65) tert-Butylbenzene	16.117	119	23419m	0.088	ppbv	
66) Benzyl Chloride	16.365	91	1396m	0.047	ppbv	
67) sec-Butylbenzene	16.657	105	32085m	0.086	ppbv	
69) p-Isopropyltoluene	17.011	119	24579m	0.080	ppbv	
70) n-Butylbenzene	17.918	91	24435m	0.076	ppbv	
71) 2-Chlorotoluene	14.825	91	22615m	0.100	ppbv	
72) 4-Ethyltoluene	15.204	105	19001m	0.085	ppbv	
73) 1,3,5-Trimethylbenzene	15.365	105	18413m	0.091	ppbv	
74) 1,2,4-Trimethylbenzene	16.127	105	17891m	0.081	ppbv	
75) 1,3-Dichlorobenzene	16.346	146	13806m	0.109	ppbv	
76) 1,4-Dichlorobenzene	16.494	146	13813m	0.113	ppbv	
77) 1,2-Dichlorobenzene	17.166	146	13215m	0.104	ppbv	
78) Hexachloro-1,3-Butadiene	22.644	225	11847m	0.105	ppbv	
79) Naphthalene	21.407	128	10225m	0.049	ppbv	
81) 1,2,4-Trichlorobenzene	21.162	180	7104m	0.064	ppbv	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050924\
Data File : VL041255.D
Acq On : 9 May 2024 12:45
Operator : SY/MD
Sample : P2403-15 MDL 0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

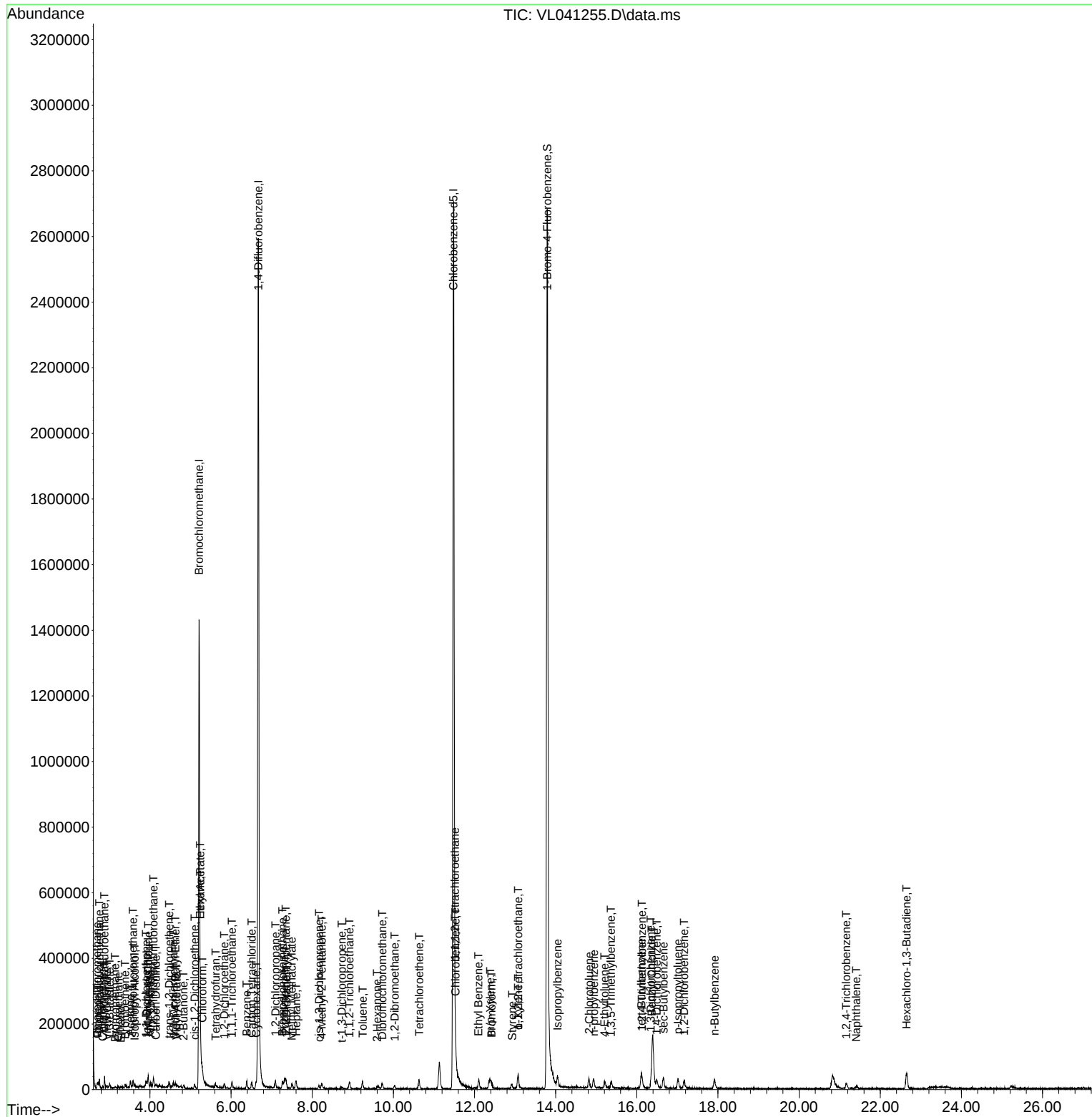
Quant Time: May 10 01:59:56 2024

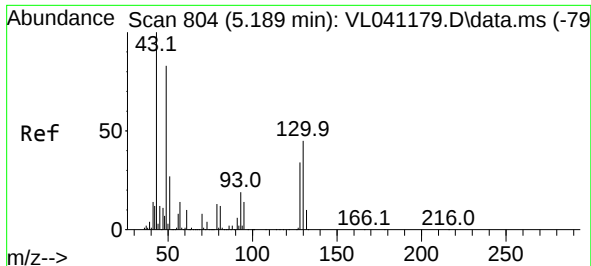
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

QLast Update : Fri May 10 01:23:08 2024

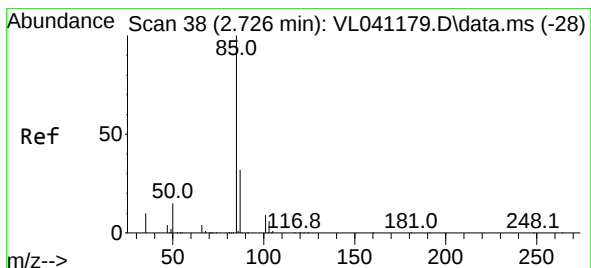
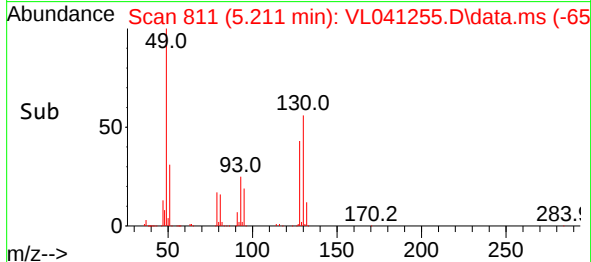
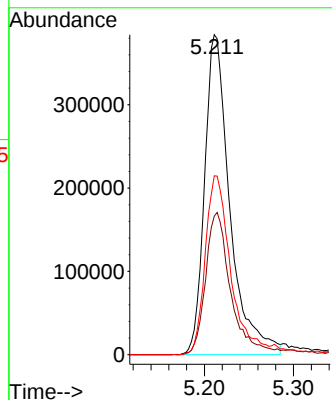
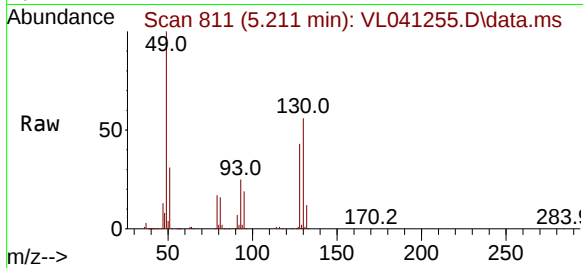
Response via : Initial Calibration





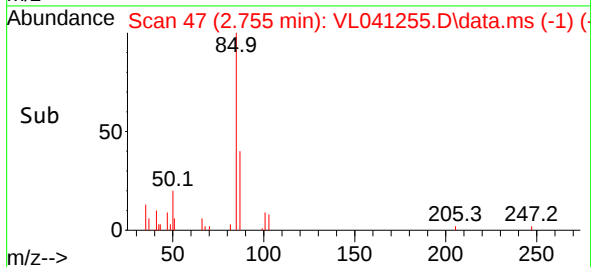
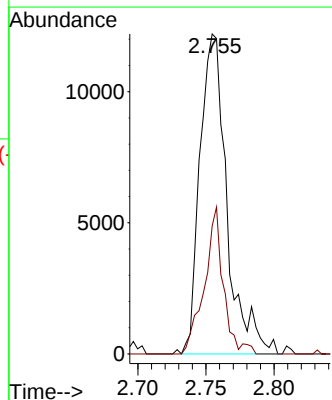
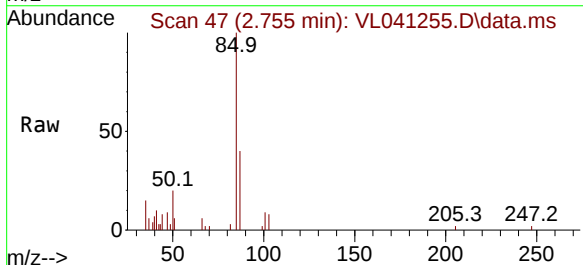
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.006 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

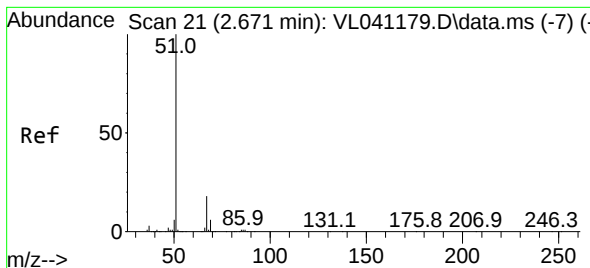
Tgt Ion: 49 Resp: 758857
Ion Ratio Lower Upper
49 100
128 46.4 21.5 64.5
130 60.0 27.2 81.6



#2
Dichlorodifluoromethane
Concen: 0.164 ppbv m
RT: 2.755 min Scan# 47
Delta R.T. 0.010 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

Tgt Ion: 85 Resp: 16828
Ion Ratio Lower Upper
85 100
87 40.1 25.7 38.5#





#3

Chlorodifluoromethane

Concen: 0.117 ppbv

RT: 2.697 min Scan# 29

Delta R.T. 0.006 min

Lab File: VL041255.D

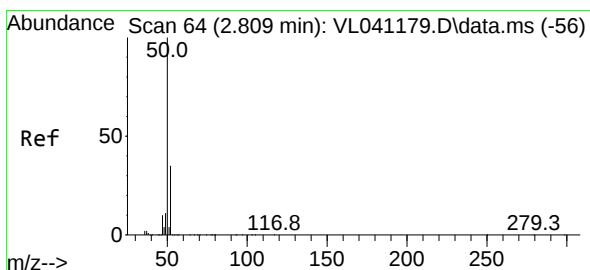
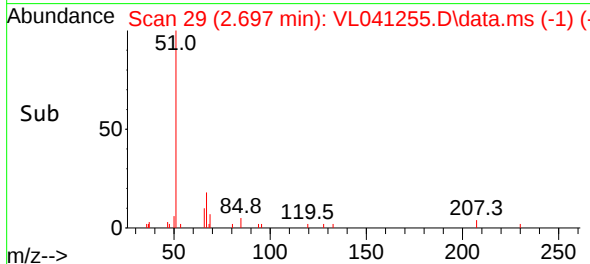
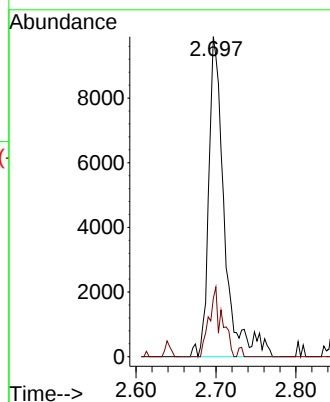
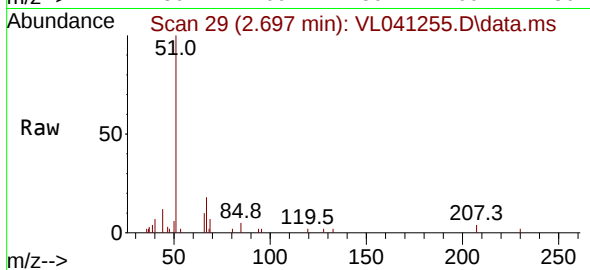
Acq: 9 May 2024 12:45

Tgt Ion: 51 Resp: 13439

Ion Ratio Lower Upper

51 100

67 18.7 14.0 21.0



#4

Chloromethane

Concen: 0.110 ppbv

RT: 2.835 min Scan# 72

Delta R.T. 0.006 min

Lab File: VL041255.D

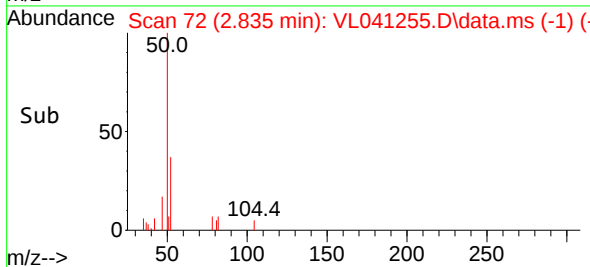
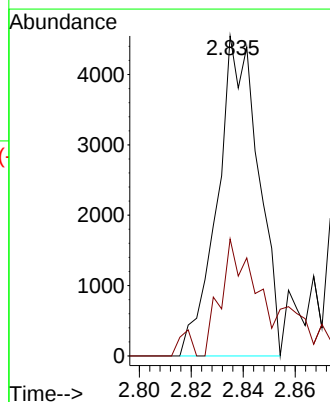
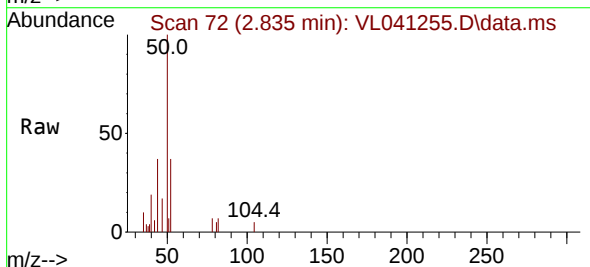
Acq: 9 May 2024 12:45

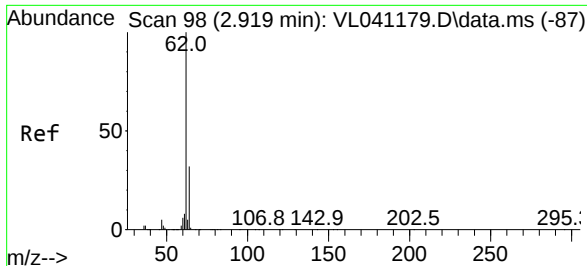
Tgt Ion: 50 Resp: 4982

Ion Ratio Lower Upper

50 100

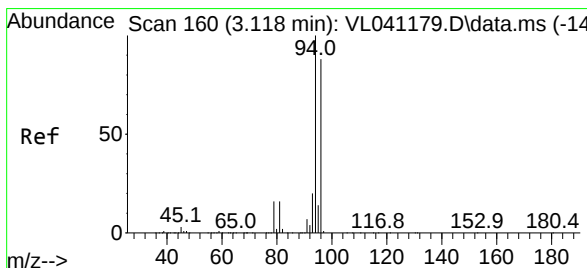
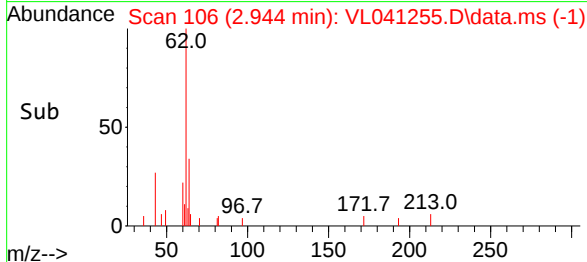
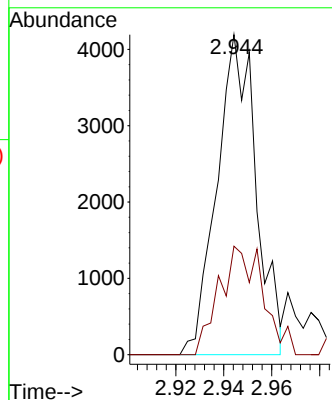
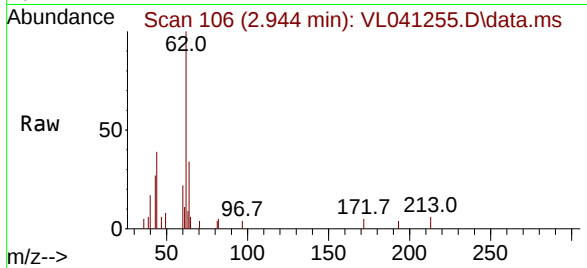
52 30.7 28.3 42.5





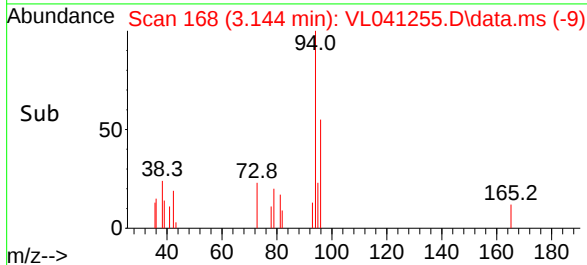
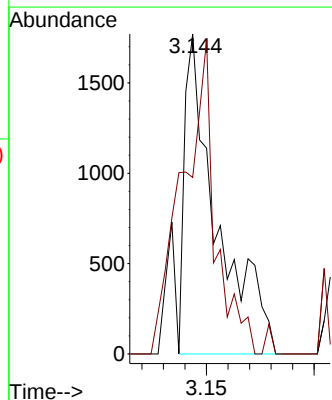
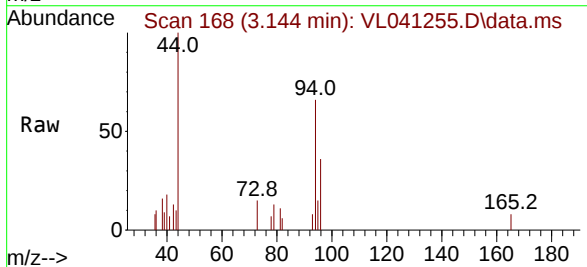
#5
 Vinyl Chloride
 Concen: 0.105 ppbv
 RT: 2.944 min Scan# 106
 Delta R.T. 0.010 min
 Lab File: VL041255.D
 Acq: 9 May 2024 12:45

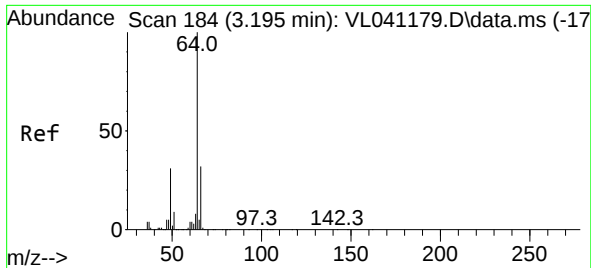
Tgt Ion: 62 Resp: 4778
 Ion Ratio Lower Upper
 62 100
 64 39.5 25.7 38.5#



#6
 Bromomethane
 Concen: 0.111 ppbv m
 RT: 3.144 min Scan# 168
 Delta R.T. 0.010 min
 Lab File: VL041255.D
 Acq: 9 May 2024 12:45

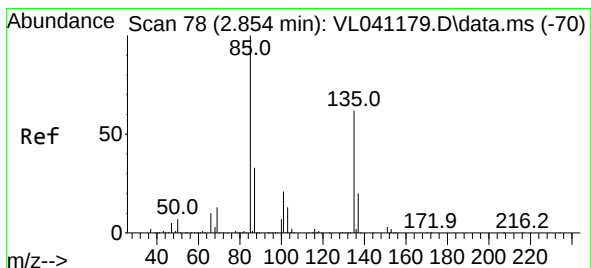
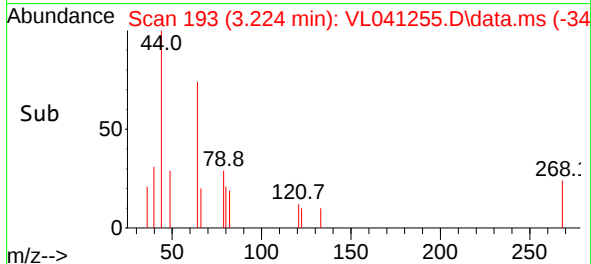
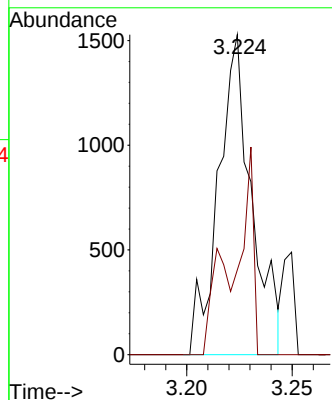
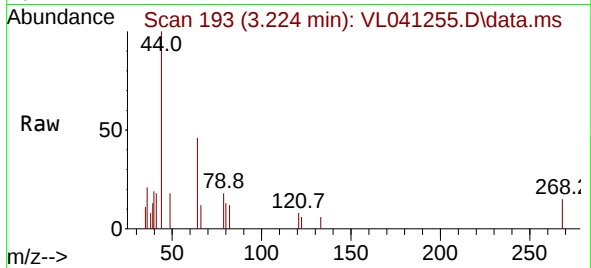
Tgt Ion: 94 Resp: 1844
 Ion Ratio Lower Upper
 94 100
 96 55.2 70.1 105.1#





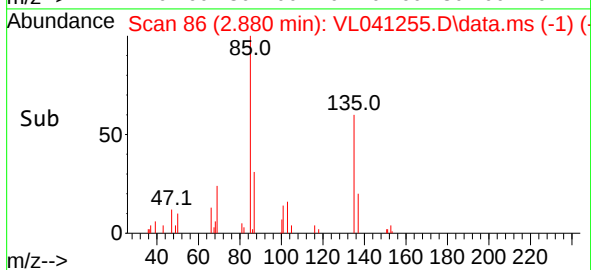
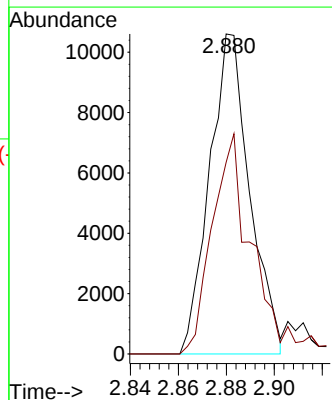
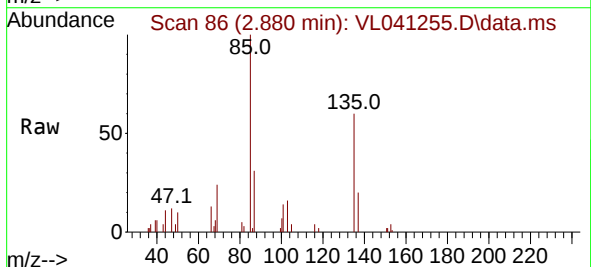
#7
Chloroethane
Concen: 0.105 ppbv m
RT: 3.224 min Scan# 193
Delta R.T. 0.010 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

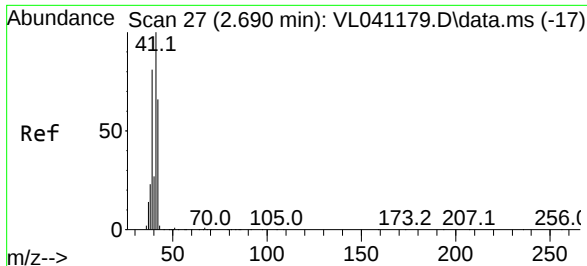
Tgt Ion: 64 Resp: 1681
Ion Ratio Lower Upper
64 100
66 26.5 25.4 38.2



#8
Dichlorotetrafluoroethane
Concen: 0.116 ppbv
RT: 2.880 min Scan# 86
Delta R.T. 0.006 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

Tgt Ion: 85 Resp: 12371
Ion Ratio Lower Upper
85 100
135 69.5 51.5 77.3





#9

Propene

Concen: 0.163 ppbv m

RT: 2.719 min Scan# 36

Delta R.T. 0.010 min

Lab File: VL041255.D

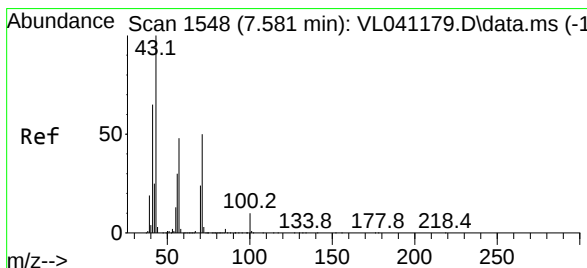
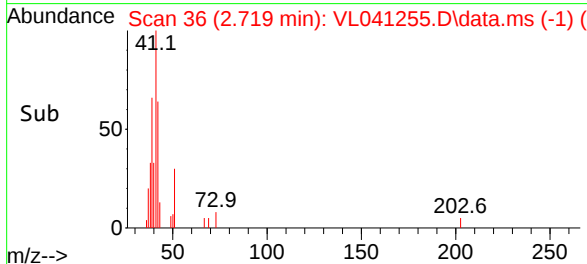
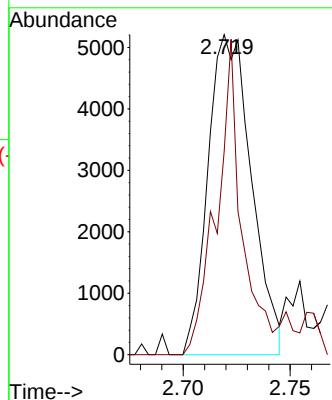
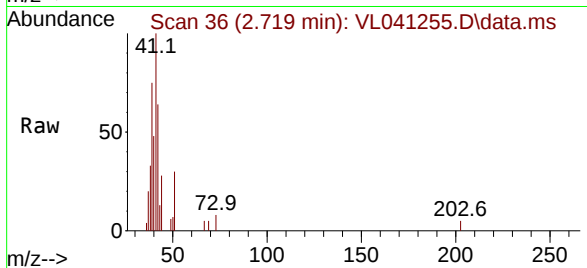
Acq: 9 May 2024 12:45

Tgt Ion: 41 Resp: 7339

Ion Ratio Lower Upper

41 100

42 6.6 55.3 82.9#



#10

Heptane

Concen: 0.092 ppbv m

RT: 7.606 min Scan# 1556

Delta R.T. 0.010 min

Lab File: VL041255.D

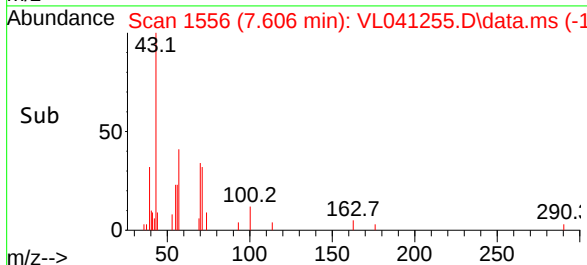
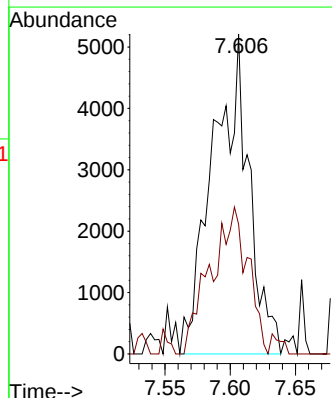
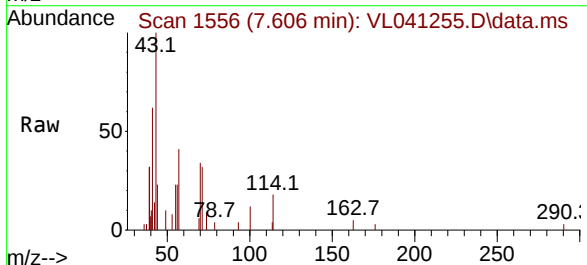
Acq: 9 May 2024 12:45

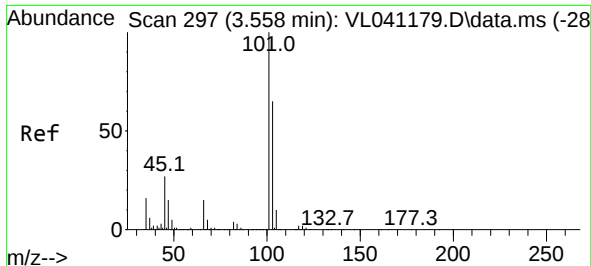
Tgt Ion: 43 Resp: 10030

Ion Ratio Lower Upper

43 100

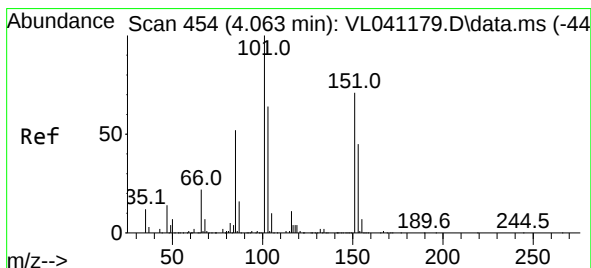
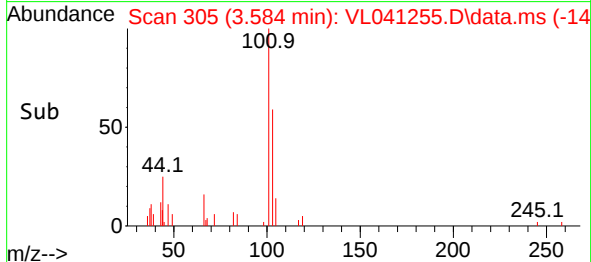
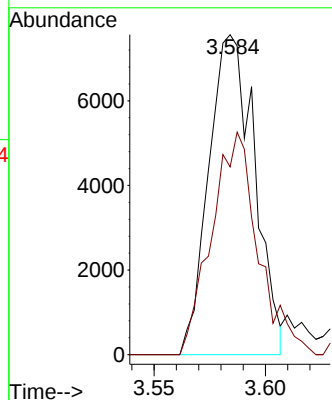
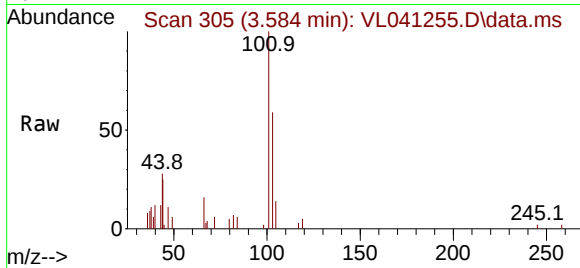
57 52.9 38.7 58.1





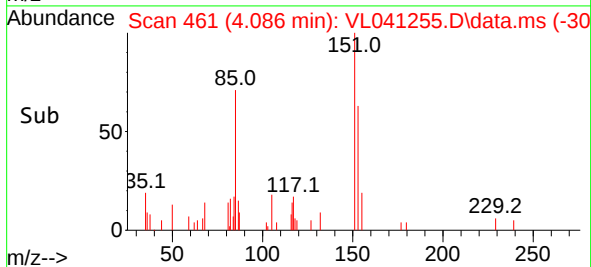
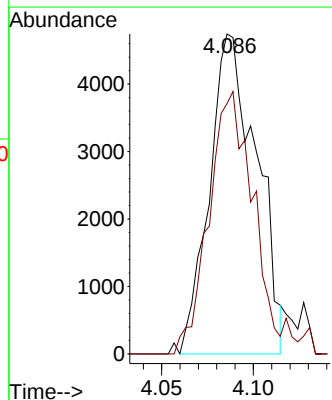
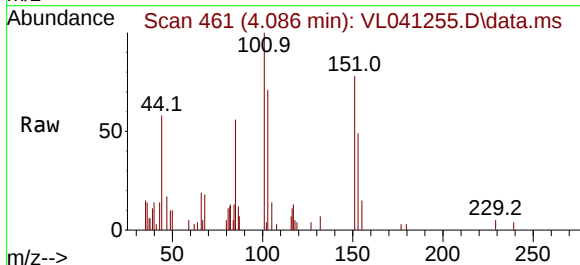
#11
 Trichlorofluoromethane
 Concen: 0.104 ppbv
 RT: 3.584 min Scan# 305
 Delta R.T. 0.006 min
 Lab File: VL041255.D
 Acq: 9 May 2024 12:45

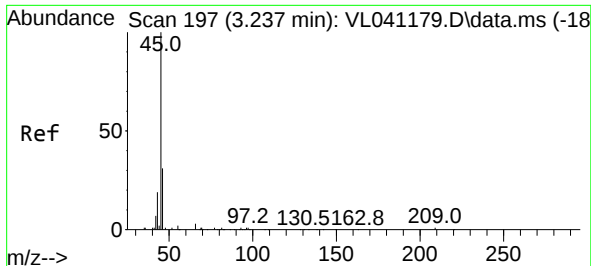
Tgt Ion:101 Resp: 10806
 Ion Ratio Lower Upper
 101 100
 103 58.7 51.6 77.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.110 ppbv
 RT: 4.086 min Scan# 461
 Delta R.T. 0.006 min
 Lab File: VL041255.D
 Acq: 9 May 2024 12:45

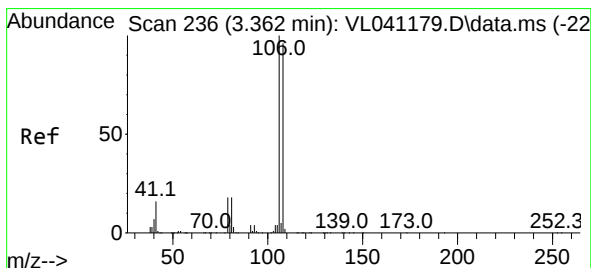
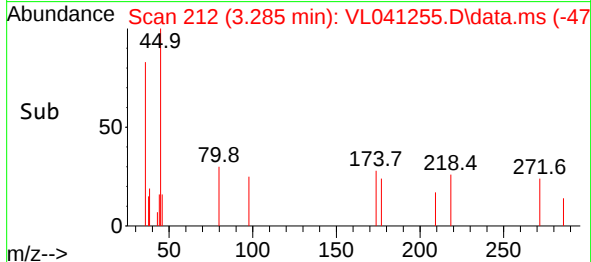
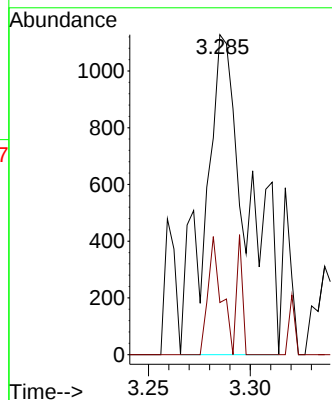
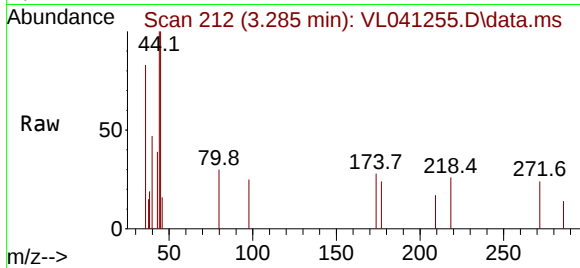
Tgt Ion:101 Resp: 8456
 Ion Ratio Lower Upper
 101 100
 151 79.7 56.8 85.2





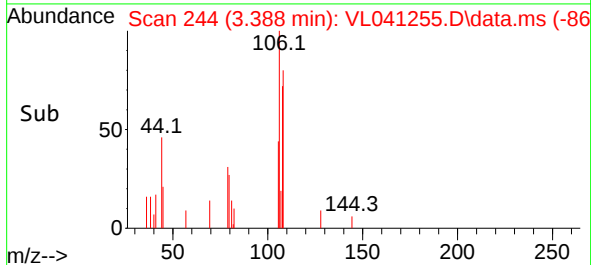
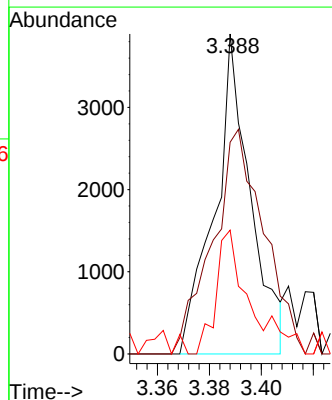
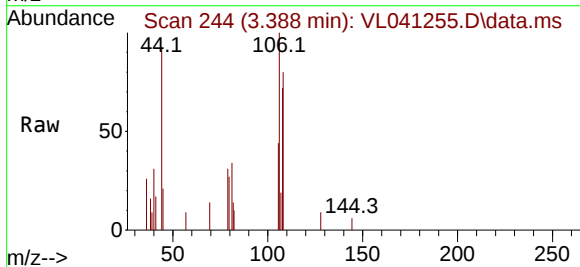
#13
Ethanol
Concen: 0.164 ppbv m
RT: 3.285 min Scan# 212
Delta R.T. 0.029 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

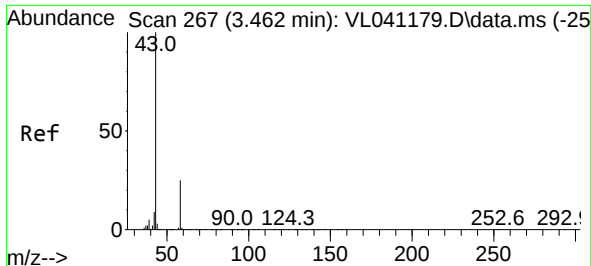
Tgt Ion: 45 Resp: 1663
Ion Ratio Lower Upper
45 100
46 0.0 14.8 59.0#



#14
Bromoethene
Concen: 0.117 ppbv
RT: 3.388 min Scan# 244
Delta R.T. 0.006 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

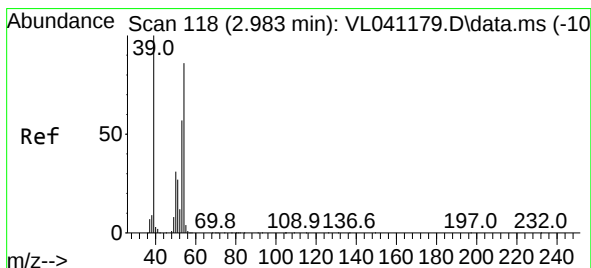
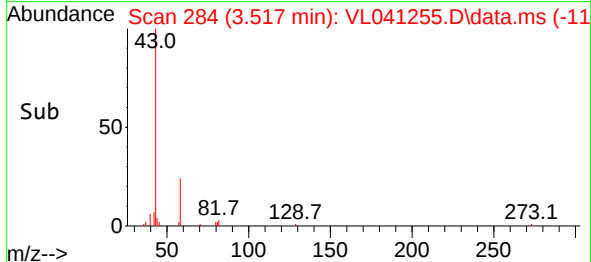
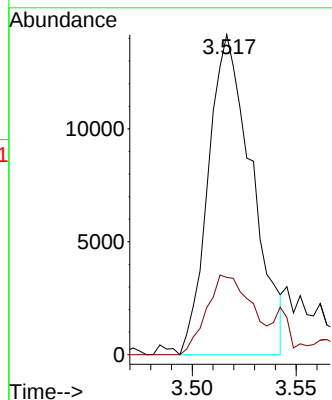
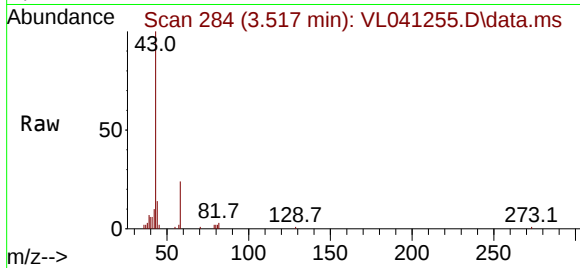
Tgt Ion: 108 Resp: 3715
Ion Ratio Lower Upper
108 100
106 101.8 88.2 132.4
79 43.3 17.4 26.0#





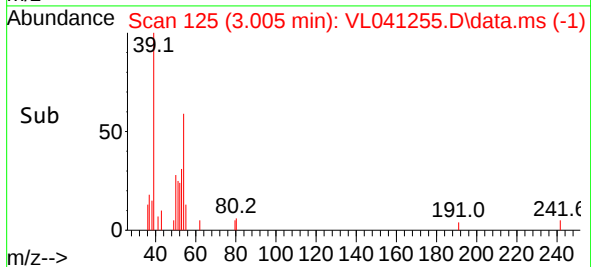
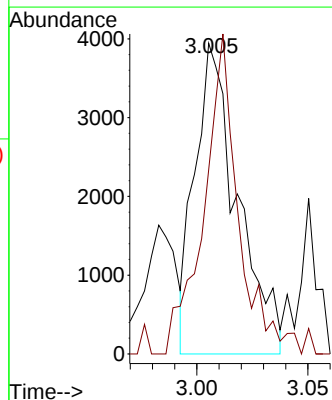
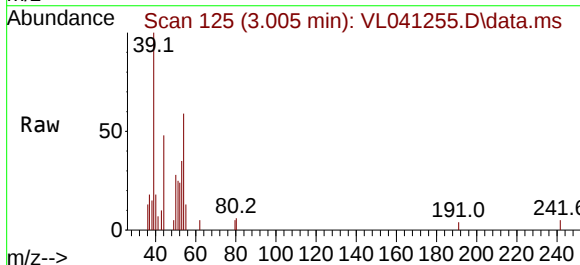
#15
Acetone
Concen: 0.231 ppbv
RT: 3.517 min Scan# 284
Delta R.T. 0.035 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

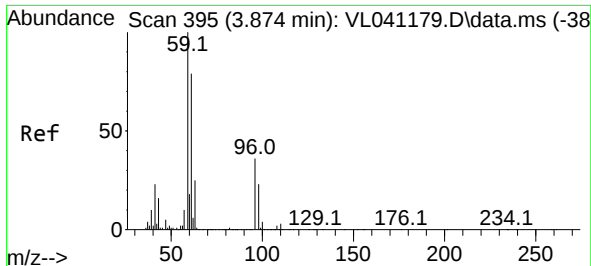
Tgt Ion: 43 Resp: 20665
Ion Ratio Lower Upper
43 100
58 34.6 21.4 32.0#



#16
1,3-Butadiene
Concen: 0.117 ppbv m
RT: 3.005 min Scan# 125
Delta R.T. 0.006 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

Tgt Ion: 39 Resp: 5268
Ion Ratio Lower Upper
39 100
54 0.0 62.2 93.4#





#17

tert-Butyl alcohol

Concen: 0.104 ppbv m

RT: 3.928 min Scan# 412

Delta R.T. 0.039 min

Lab File: VL041255.D

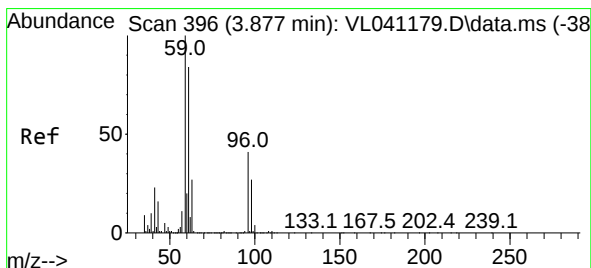
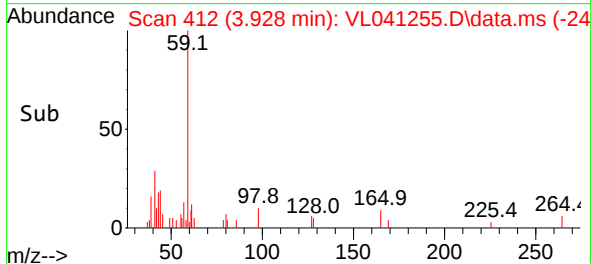
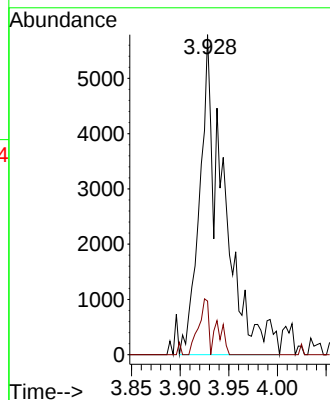
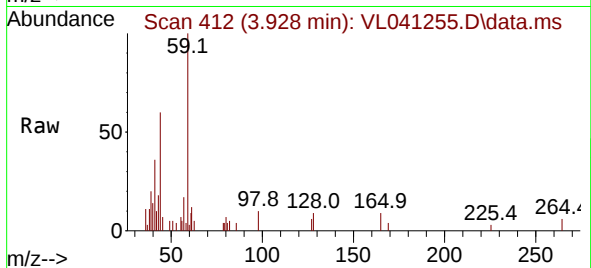
Acq: 9 May 2024 12:45

Tgt Ion: 59 Resp: 10050

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



#18

1,1-Dichloroethene

Concen: 0.115 ppbv m

RT: 3.906 min Scan# 405

Delta R.T. 0.010 min

Lab File: VL041255.D

Acq: 9 May 2024 12:45

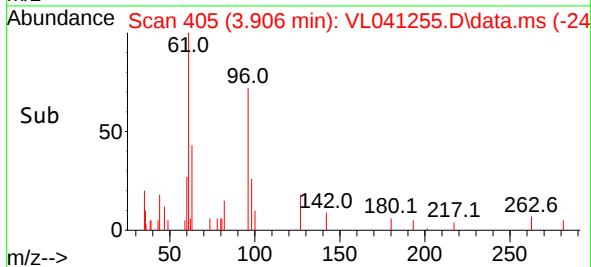
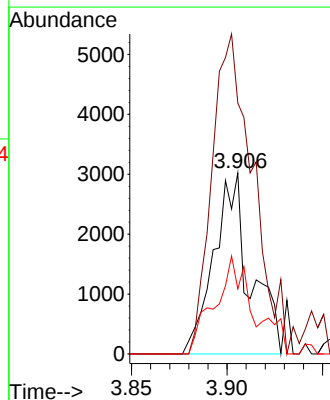
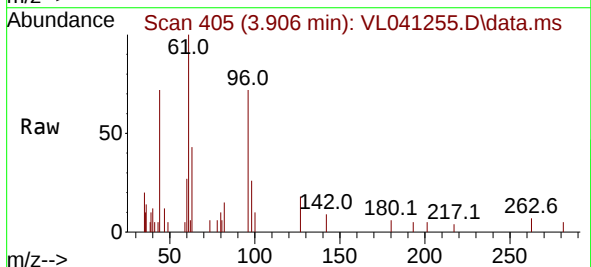
Tgt Ion: 96 Resp: 3969

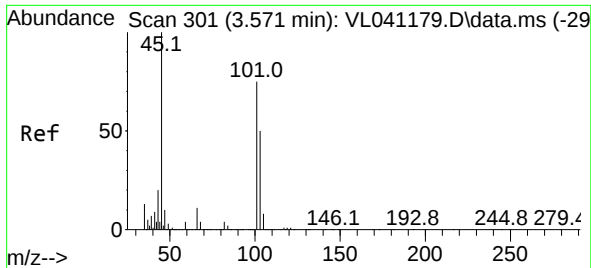
Ion Ratio Lower Upper

96 100

61 138.6 164.4 246.6#

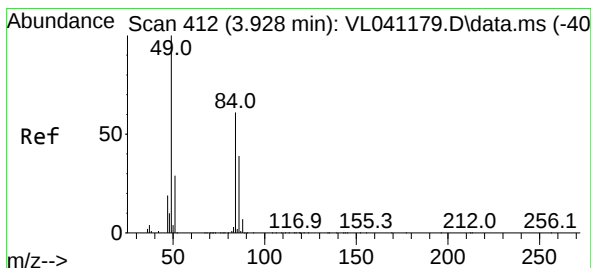
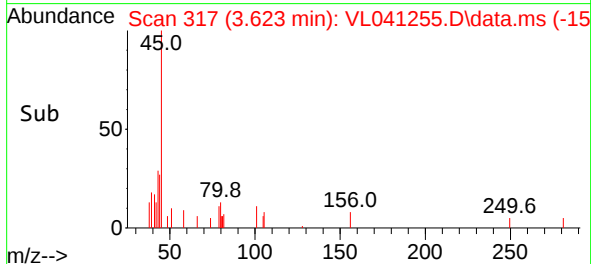
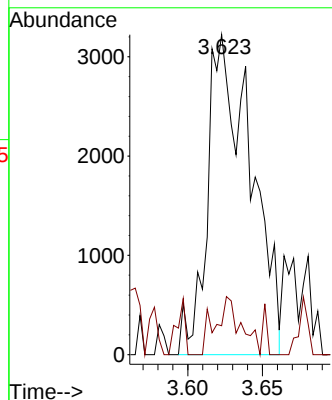
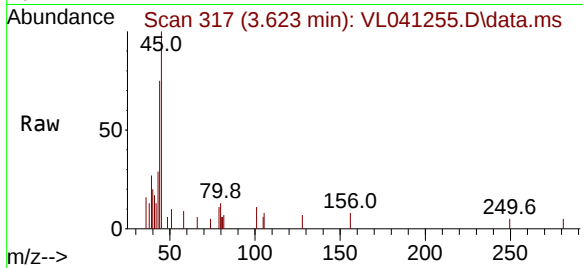
98 36.0 51.8 77.8#





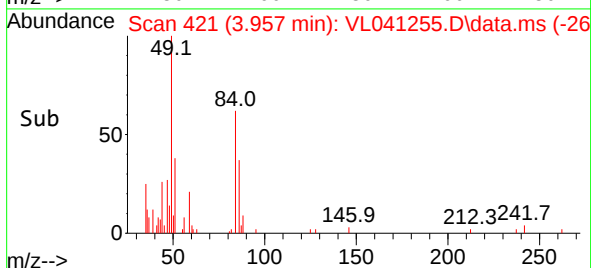
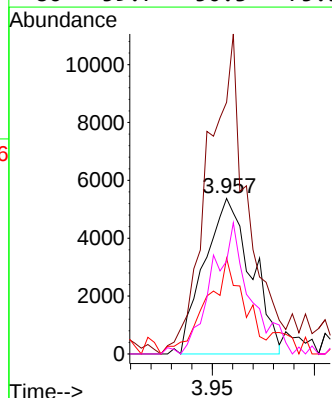
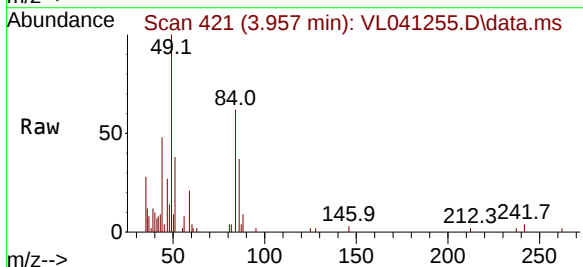
#19
Isopropyl Alcohol
Concen: 0.111 ppbv m
RT: 3.623 min Scan# 317
Delta R.T. 0.032 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

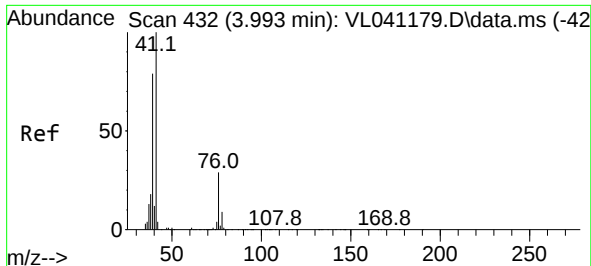
Tgt Ion: 45 Resp: 6519
Ion Ratio Lower Upper
45 100
58 3.3 26.8 40.2#



#20
Methylene Chloride
Concen: 0.275 ppbv m
RT: 3.957 min Scan# 421
Delta R.T. 0.010 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

Tgt Ion: 84 Resp: 8566
Ion Ratio Lower Upper
84 100
49 161.8 130.4 195.6
51 61.5 38.0 57.0#
86 59.7 50.3 75.5





#21

Allyl Chloride

Concen: 0.118 ppbv m

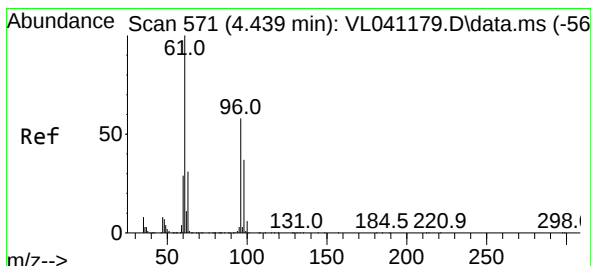
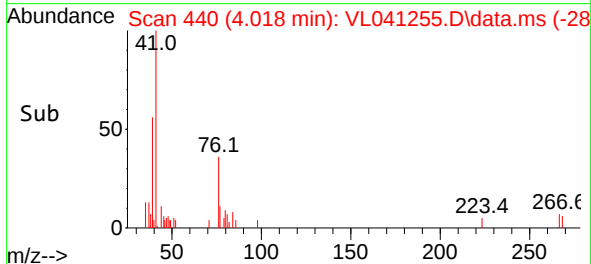
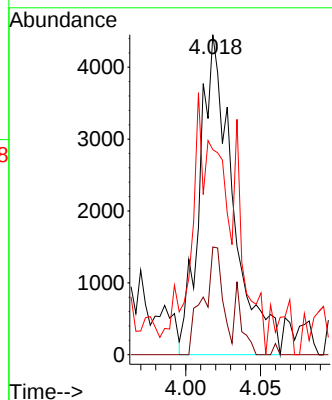
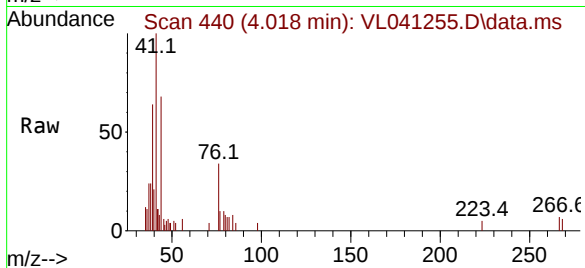
RT: 4.018 min Scan# 440

Delta R.T. 0.006 min

Lab File: VL041255.D

Acq: 9 May 2024 12:45

Tgt Ion:	41	Resp:	6866
Ion	Ratio	Lower	Upper
41	100		
76	25.0	23.7	35.5
39	113.3	64.7	97.1#



#22

trans-1,2-Dichloroethene

Concen: 0.126 ppbv m

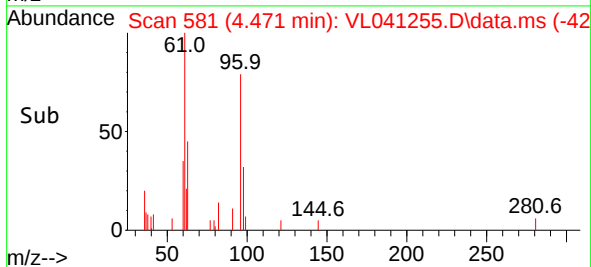
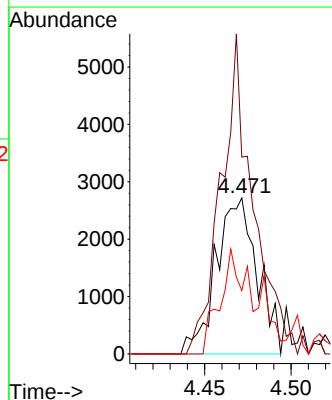
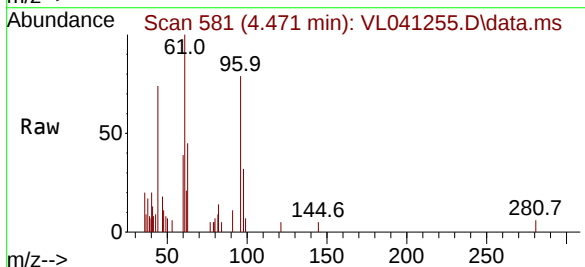
RT: 4.471 min Scan# 581

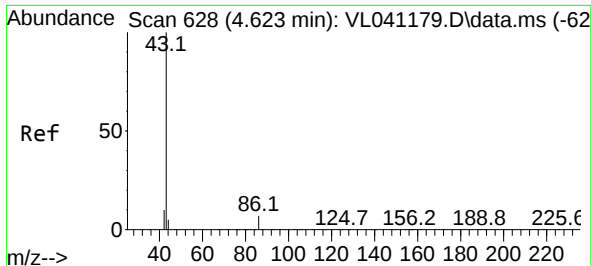
Delta R.T. 0.010 min

Lab File: VL041255.D

Acq: 9 May 2024 12:45

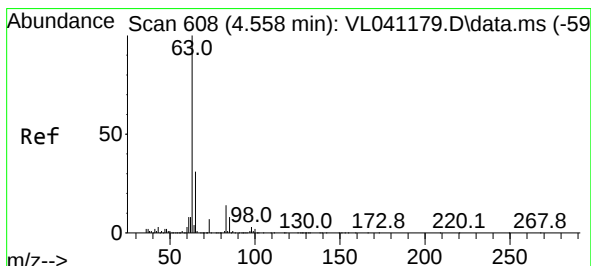
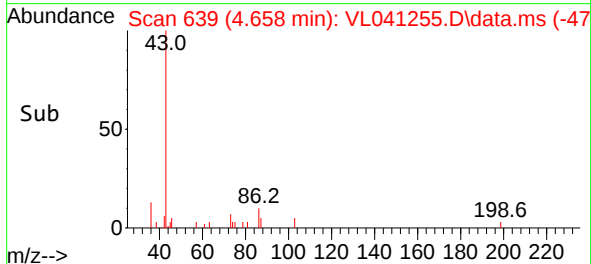
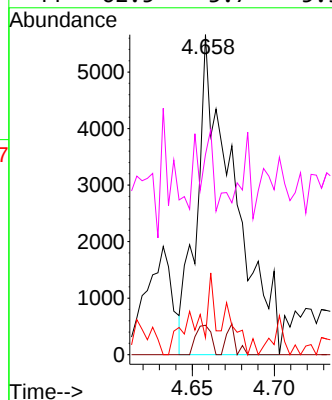
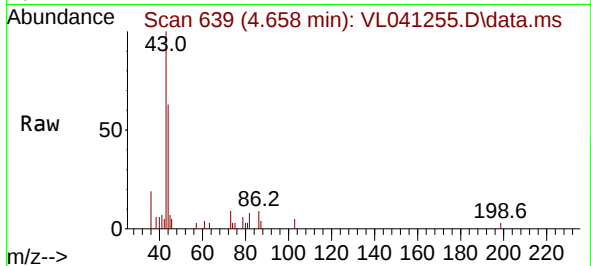
Tgt Ion:	96	Resp:	4499
Ion	Ratio	Lower	Upper
96	100		
61	126.3	137.6	206.4#
98	40.7	50.6	76.0#





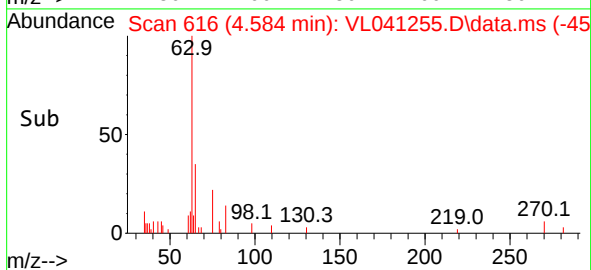
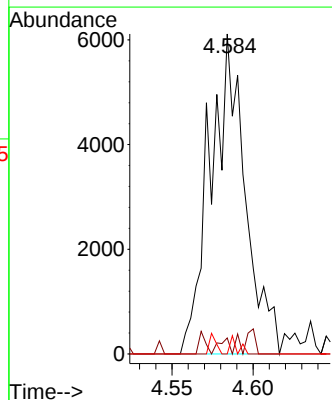
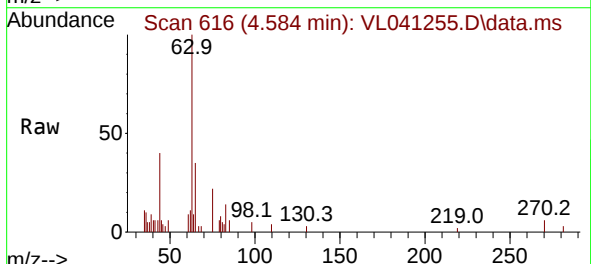
#23
 Vinyl Acetate
 Concen: 0.089 ppbv m
 RT: 4.658 min Scan# 639
 Delta R.T. 0.019 min
 Lab File: VL041255.D
 Acq: 9 May 2024 12:45

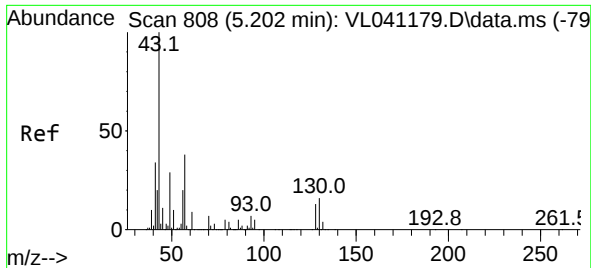
Tgt Ion	Ratio	Lower	Upper
43	100		
86	9.2	4.9	7.3#
42	5.3	8.0	12.0#
44	62.5	3.7	5.5#



#24
 1,1-Dichloroethane
 Concen: 0.120 ppbv m
 RT: 4.584 min Scan# 616
 Delta R.T. 0.006 min
 Lab File: VL041255.D
 Acq: 9 May 2024 12:45

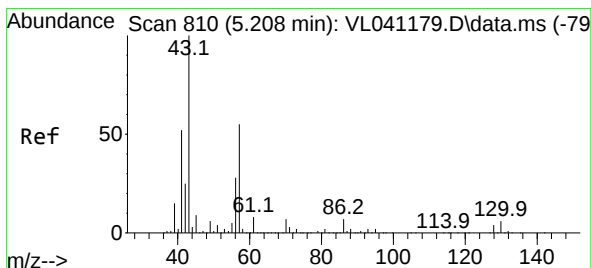
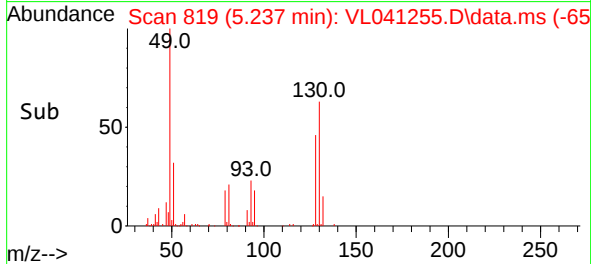
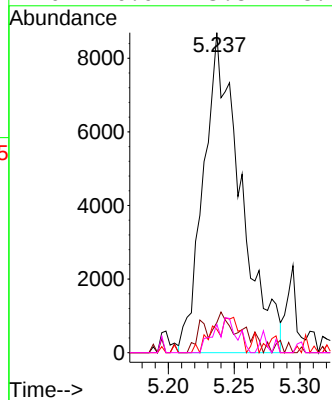
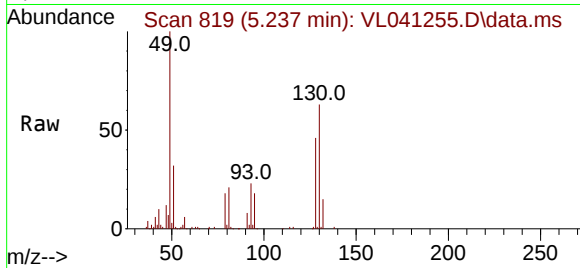
Tgt Ion	Ratio	Lower	Upper
63	100		
98	5.0	1.6	4.8#
100	0.0	1.1	3.5#





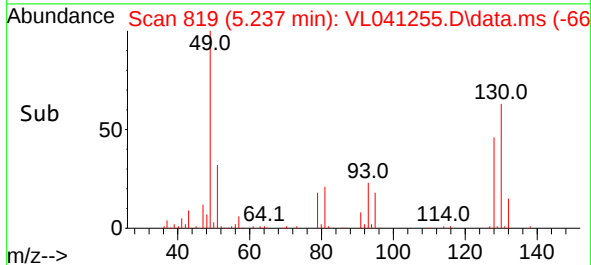
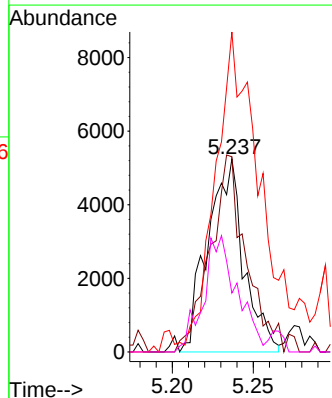
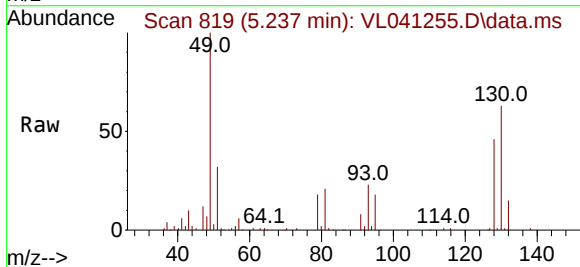
#25
Ethyl Acetate
Concen: 0.095 ppbv m
RT: 5.237 min Scan# 819
Delta R.T. 0.016 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

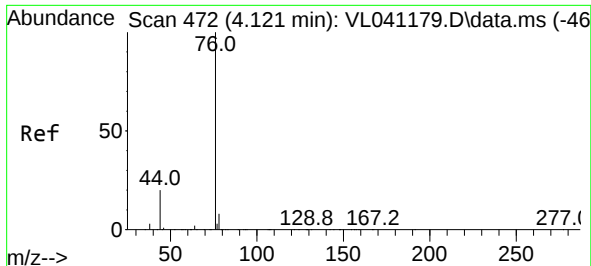
Tgt Ion: 43	Resp: 16976
Ion Ratio	Lower Upper
43 100	
45 13.1	8.2 12.2#
61 0.0	7.7 11.5#
70 0.0	5.8 8.6#



#26
Hexane
Concen: 0.102 ppbv m
RT: 5.237 min Scan# 819
Delta R.T. 0.010 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

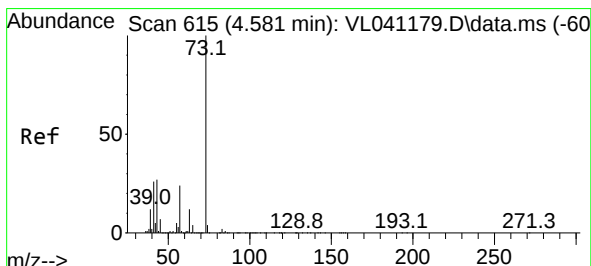
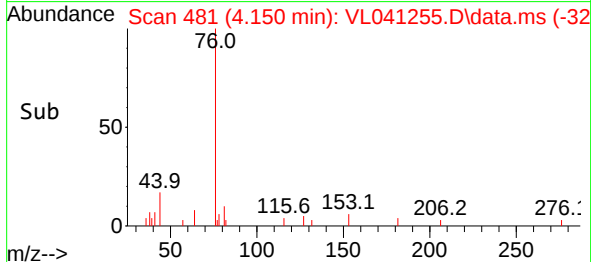
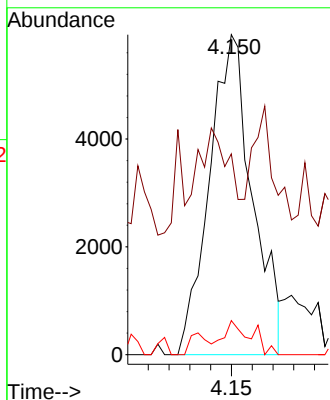
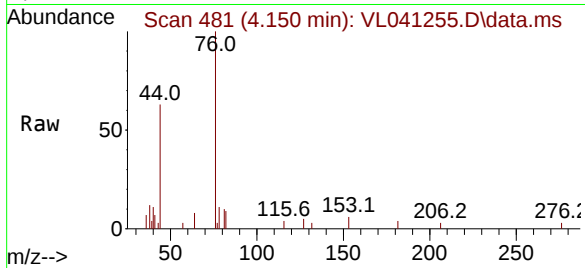
Tgt Ion: 57	Resp: 8117
Ion Ratio	Lower Upper
57 100	
41 103.9	75.8 113.8
43 236.5	187.0 280.4
56 0.0	42.7 64.1#





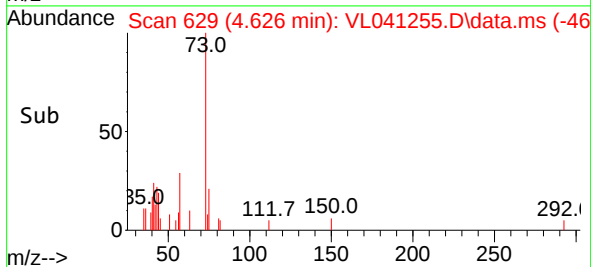
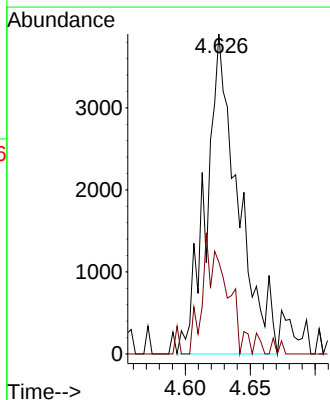
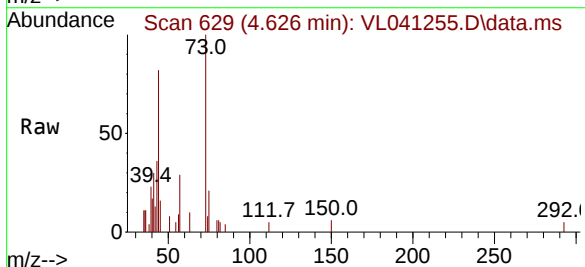
#27
Carbon Disulfide
Concen: 0.091 ppbv
RT: 4.150 min Scan# 481
Delta R.T. 0.010 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

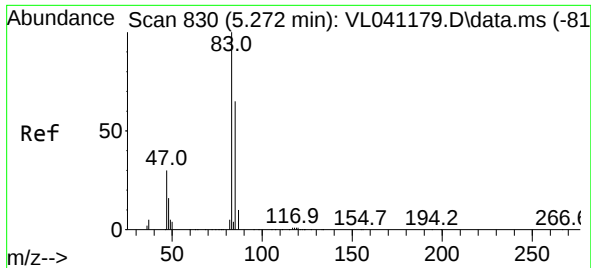
Tgt Ion: 76 Resp: 8551
Ion Ratio Lower Upper
76 100
44 0.0 16.3 24.5#
78 9.6 7.3 10.9



#28
Methyl tert-Butyl Ether
Concen: 0.105 ppbv m
RT: 4.626 min Scan# 629
Delta R.T. 0.026 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

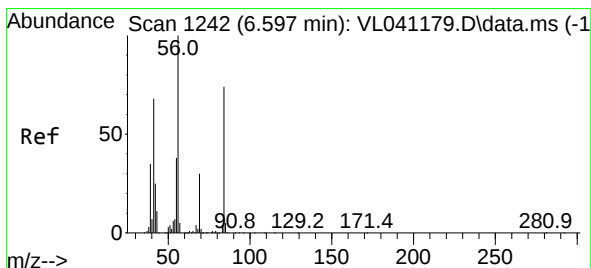
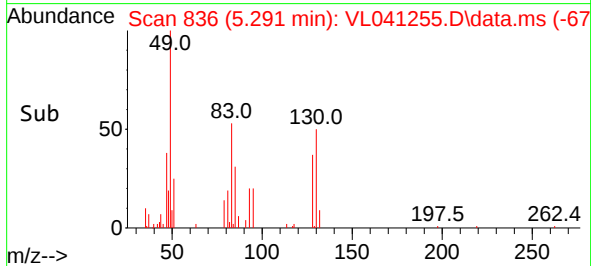
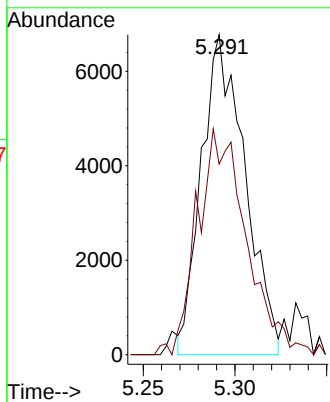
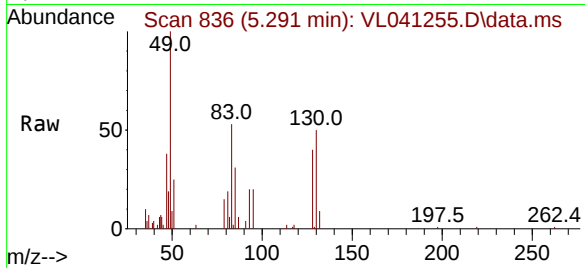
Tgt Ion: 73 Resp: 6665
Ion Ratio Lower Upper
73 100
57 0.0 18.8 28.2#





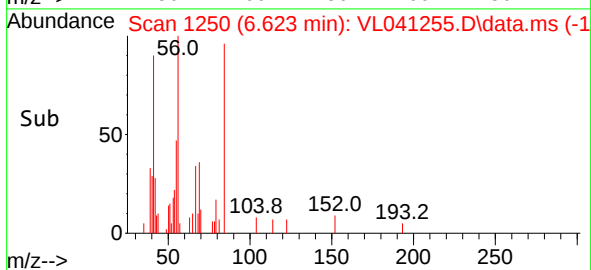
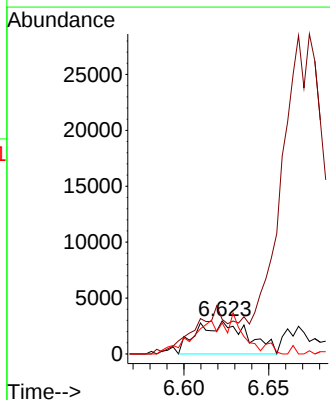
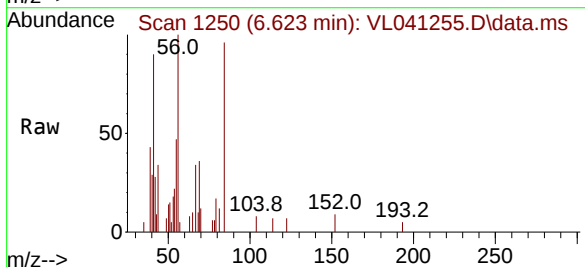
#29
Chloroform
Concen: 0.102 ppbv
RT: 5.291 min Scan# 836
Delta R.T. 0.003 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

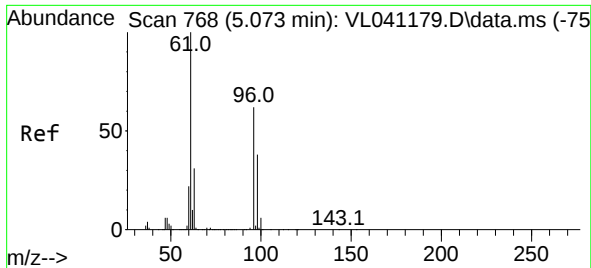
Tgt Ion: 83 Resp: 11177
Ion Ratio Lower Upper
83 100
85 54.7 51.7 77.5



#30
Cyclohexane
Concen: 0.096 ppbv m
RT: 6.623 min Scan# 1250
Delta R.T. 0.006 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

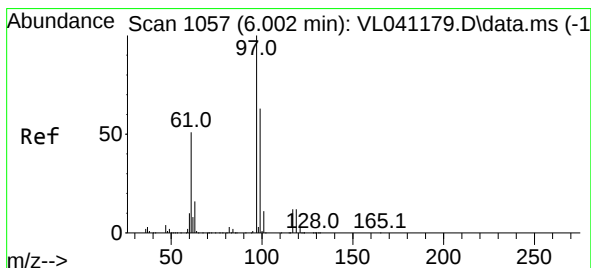
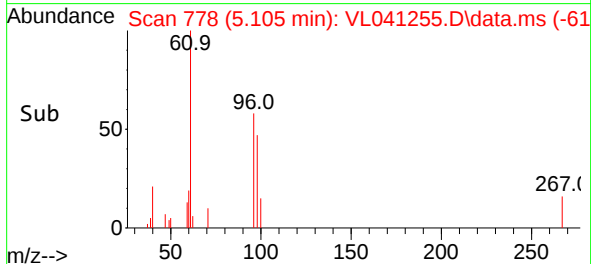
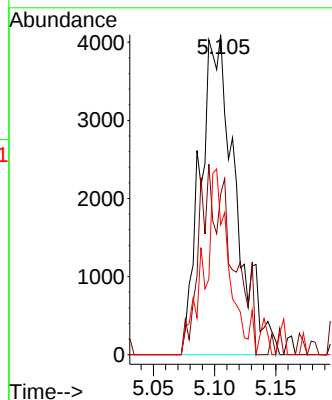
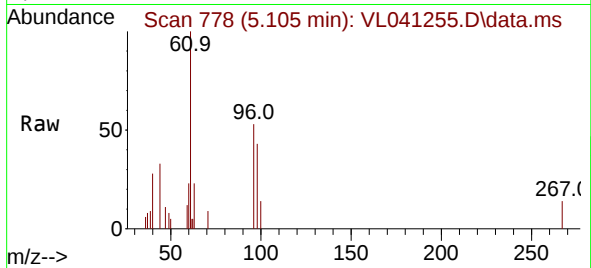
Tgt Ion: 84 Resp: 6042
Ion Ratio Lower Upper
84 100
56 0.0 116.8 175.2#
41 0.0 73.8 110.8#





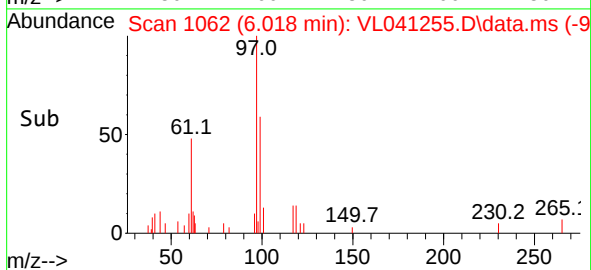
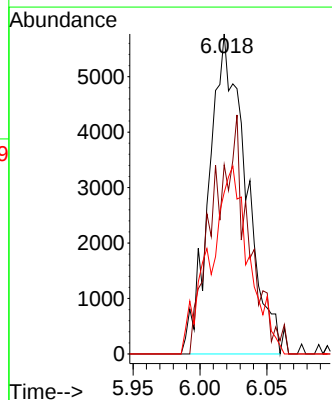
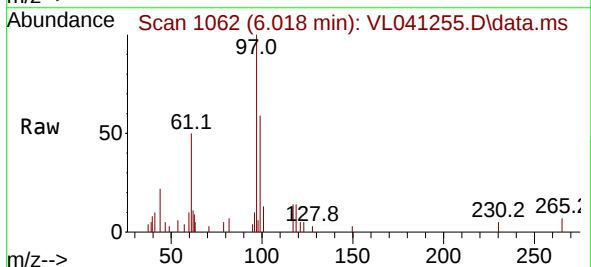
#31
 cis-1,2-Dichloroethene
 Concen: 0.110 ppbv m
 RT: 5.105 min Scan# 778
 Delta R.T. 0.010 min
 Lab File: VL041255.D
 Acq: 9 May 2024 12:45

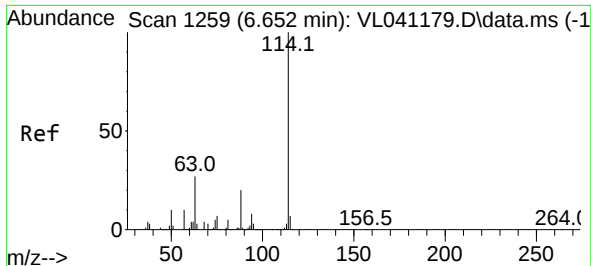
Tgt Ion:	61	Resp:	8199
Ion Ratio	Lower	Upper	
61	100		
96	52.8	49.8	74.6
98	42.7	30.0	45.0



#32
 1,1,1-Trichloroethane
 Concen: 0.100 ppbv m
 RT: 6.018 min Scan# 1062
 Delta R.T. 0.000 min
 Lab File: VL041255.D
 Acq: 9 May 2024 12:45

Tgt Ion:	97	Resp:	11015
Ion Ratio	Lower	Upper	
97	100		
99	71.8	51.7	77.5
61	62.8	41.1	61.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.671 min Scan# 1265

Delta R.T. 0.003 min

Lab File: VL041255.D

Acq: 9 May 2024 12:45

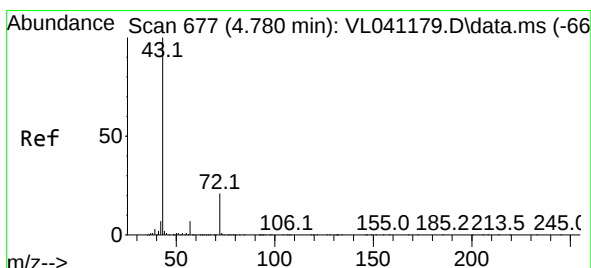
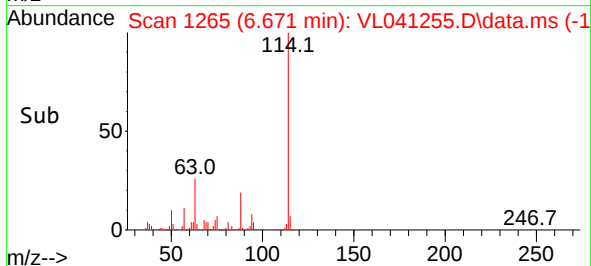
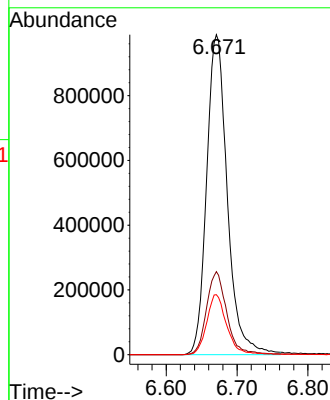
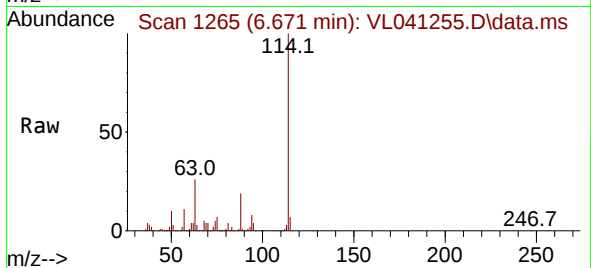
Tgt Ion:114 Resp: 2003593

Ion Ratio Lower Upper

114 100

63 25.7 21.8 32.6

88 18.4 15.2 22.8



#34

2-Butanone

Concen: 0.134 ppbv m

RT: 4.828 min Scan# 692

Delta R.T. 0.029 min

Lab File: VL041255.D

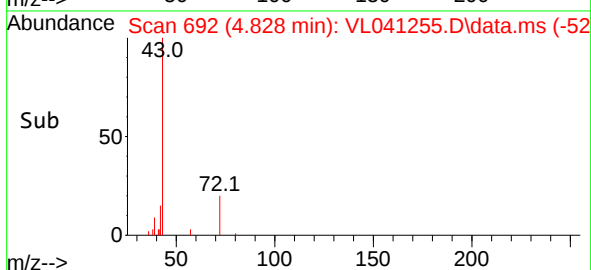
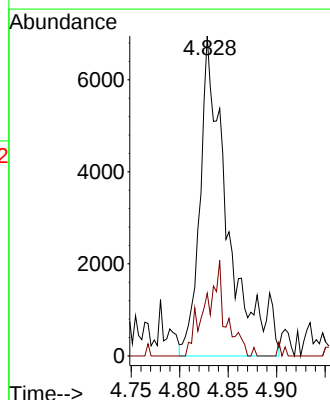
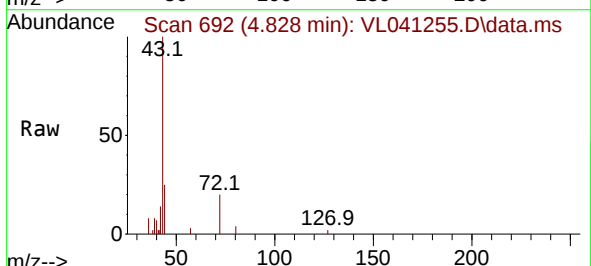
Acq: 9 May 2024 12:45

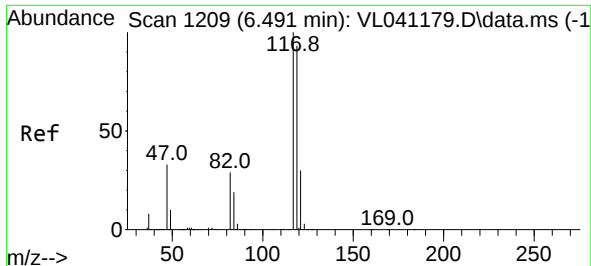
Tgt Ion: 43 Resp: 13646

Ion Ratio Lower Upper

43 100

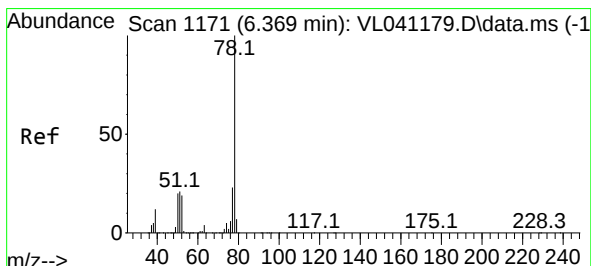
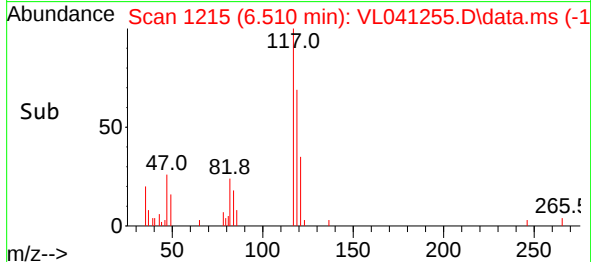
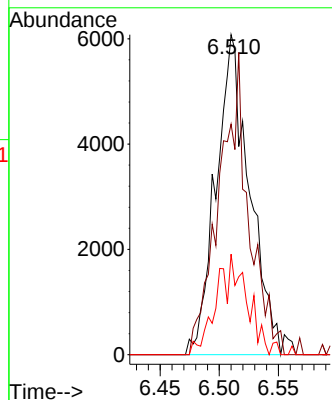
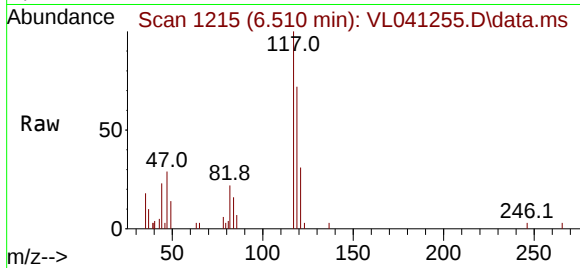
72 0.0 17.3 25.9#





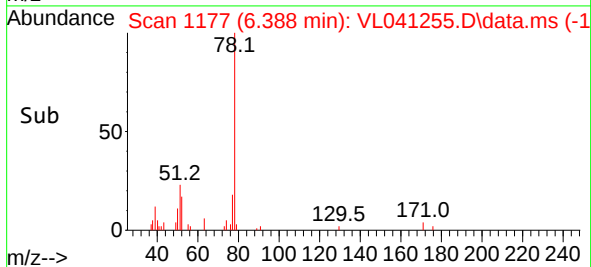
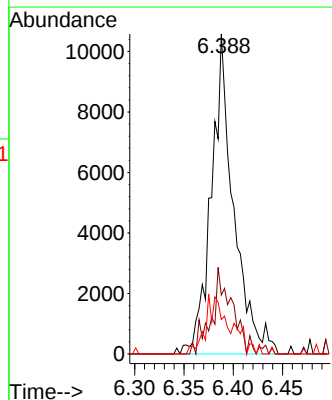
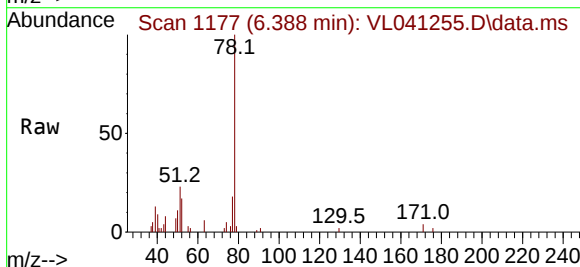
#35
Carbon Tetrachloride
Concen: 0.106 ppbv m
RT: 6.510 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

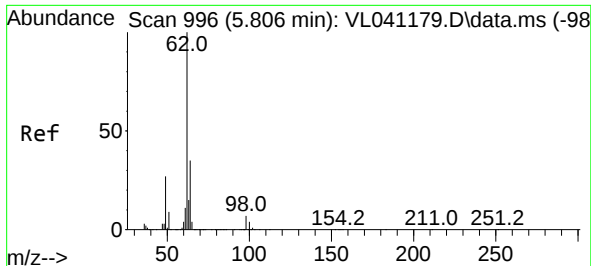
Tgt Ion	Ratio	Lower	Upper
117	100		
119	72.0	74.3	111.5#
121	31.4	23.8	35.8



#36
Benzene
Concen: 0.099 ppbv m
RT: 6.388 min Scan# 1177
Delta R.T. 0.003 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

Tgt Ion	Ratio	Lower	Upper
78	100		
77	18.4	18.3	27.5
50	10.7	15.9	23.9#





#37

1,2-Dichloroethane

Concen: 0.111 ppbv

RT: 5.832 min Scan# 1004

Delta R.T. 0.010 min

Lab File: VL041255.D

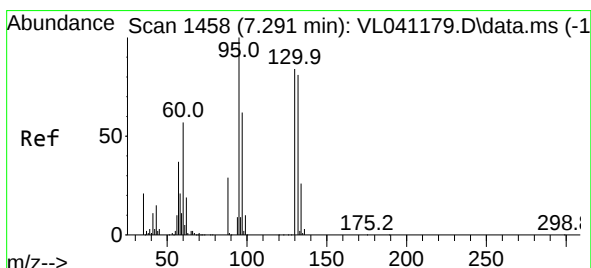
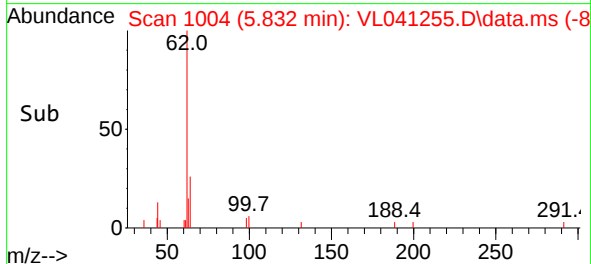
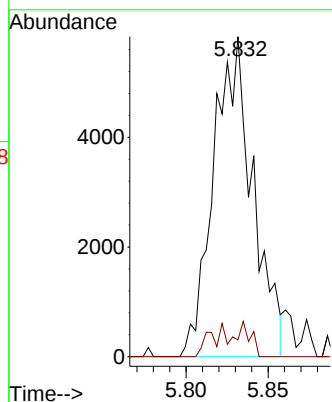
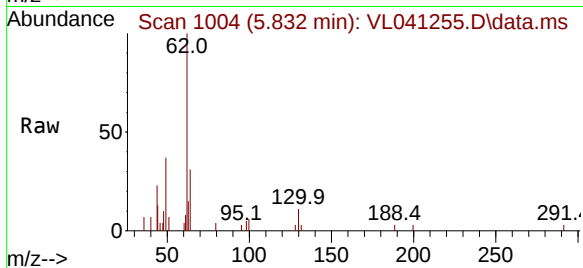
Acq: 9 May 2024 12:45

Tgt Ion: 62 Resp: 9715

Ion Ratio Lower Upper

62 100

98 8.2 5.0 7.4#



#38

Trichloroethene

Concen: 0.113 ppbv m

RT: 7.314 min Scan# 1465

Delta R.T. 0.006 min

Lab File: VL041255.D

Acq: 9 May 2024 12:45

Tgt Ion: 130 Resp: 7088

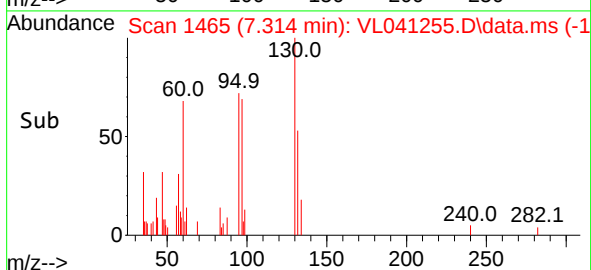
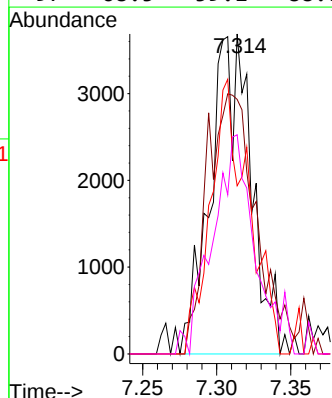
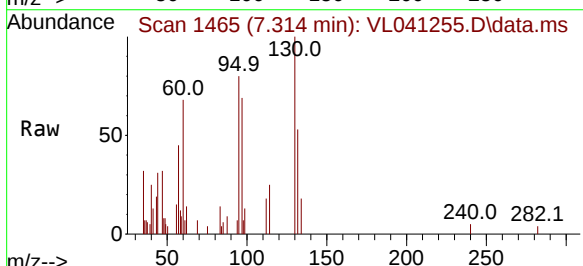
Ion Ratio Lower Upper

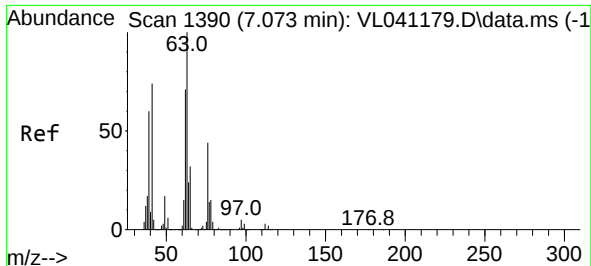
130 100

95 79.5 95.0 142.6#

132 52.6 77.0 115.4#

97 68.5 59.1 88.7





#39

1,2-Dichloropropane

Concen: 0.124 ppbv m

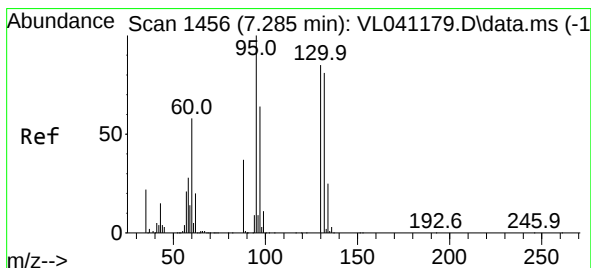
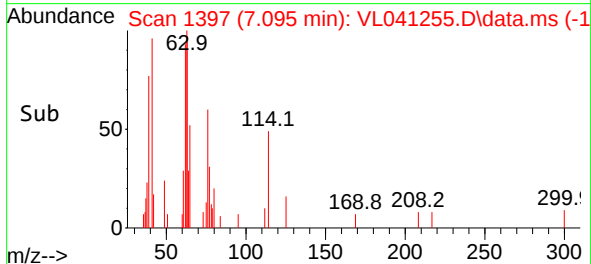
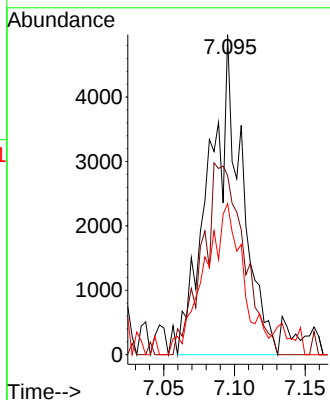
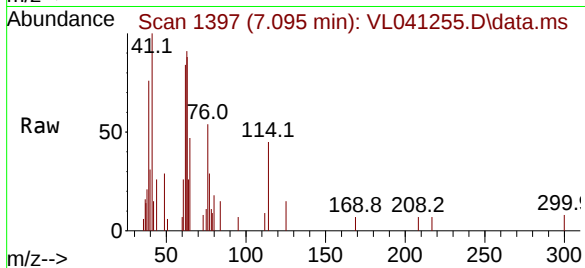
RT: 7.095 min Scan# 1397

Delta R.T. 0.006 min

Lab File: VL041255.D

Acq: 9 May 2024 12:45

Tgt Ion:	63	Resp:	8054
Ion	Ratio	Lower	Upper
63	100		
41	110.1	59.4	89.0#
62	92.8	56.8	85.2#



#40

1,4-Dioxane

Concen: 0.112 ppbv m

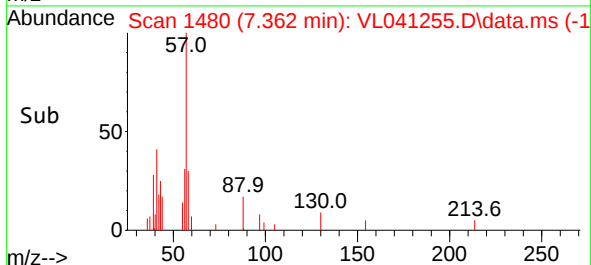
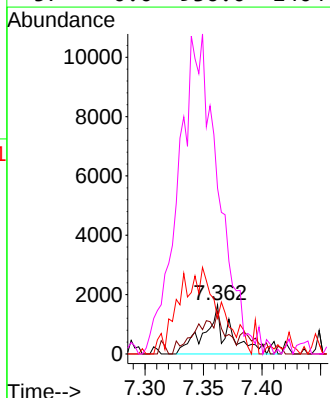
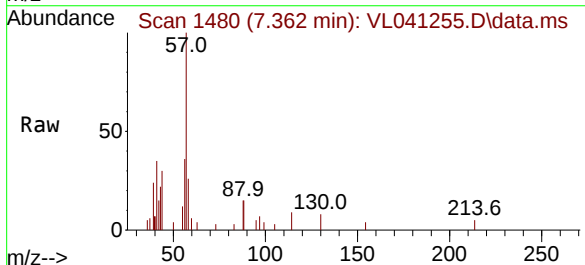
RT: 7.362 min Scan# 1480

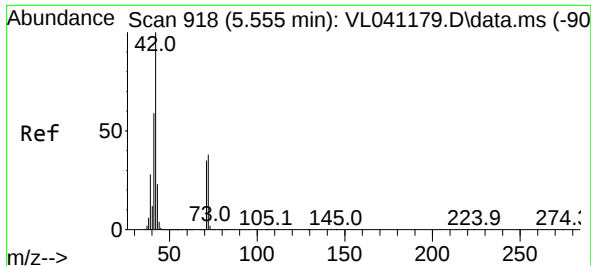
Delta R.T. 0.064 min

Lab File: VL041255.D

Acq: 9 May 2024 12:45

Tgt Ion:	88	Resp:	2583
Ion	Ratio	Lower	Upper
88	100		
58	0.0	106.1	159.1#
43	0.0	219.8	329.6#
57	0.0	936.0	1404.0#





#41

Tetrahydrofuran

Concen: 0.084 ppbv m

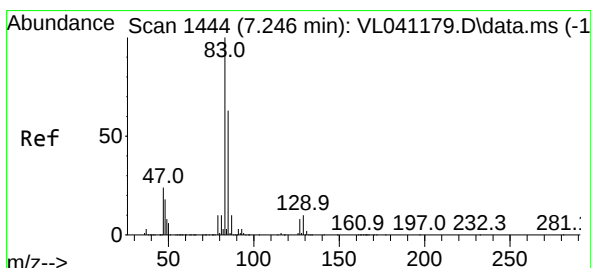
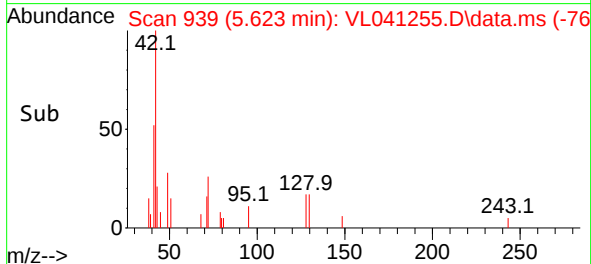
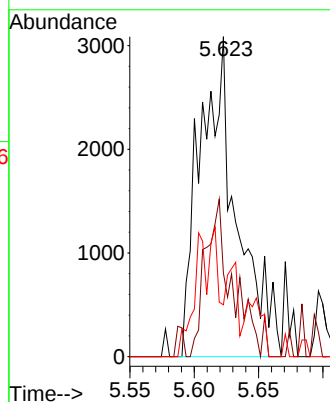
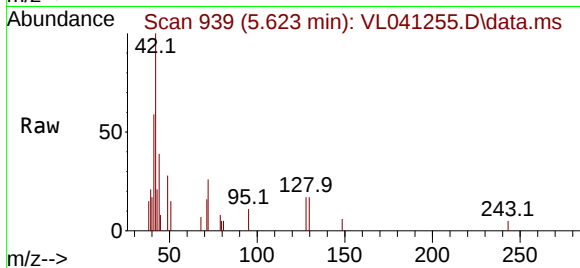
RT: 5.623 min Scan# 939

Delta R.T. 0.051 min

Lab File: VL041255.D

Acq: 9 May 2024 12:45

Tgt Ion:	42	Resp:	6182
Ion	Ratio	Lower	Upper
42	100		
72	0.0	29.4	44.0#
71	0.0	29.1	43.7#



#42

Bromodichloromethane

Concen: 0.106 ppbv m

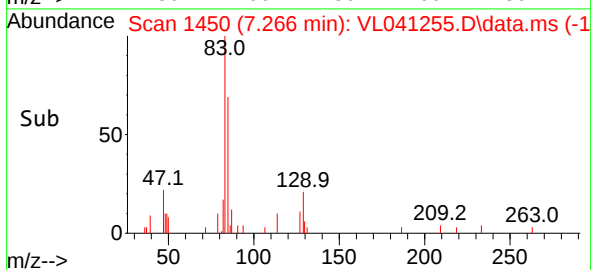
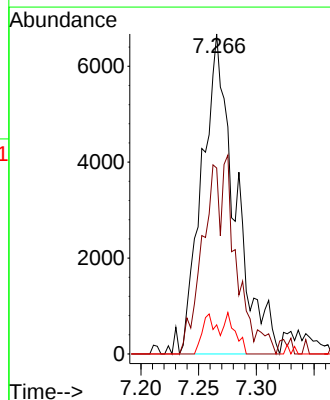
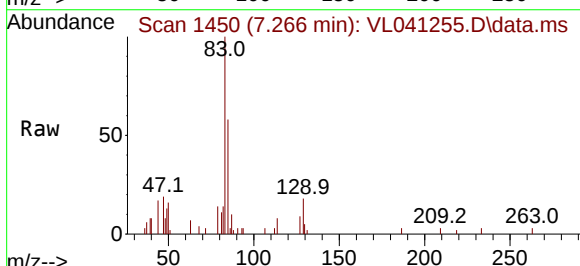
RT: 7.266 min Scan# 1450

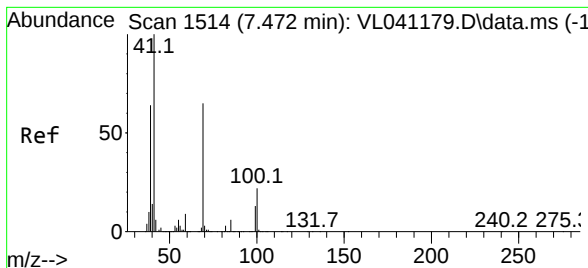
Delta R.T. 0.003 min

Lab File: VL041255.D

Acq: 9 May 2024 12:45

Tgt Ion:	83	Resp:	13341
Ion	Ratio	Lower	Upper
83	100		
85	58.1	50.6	75.8
127	9.1	6.2	9.4





#43

Methyl Methacrylate

Concen: 0.086 ppbv m

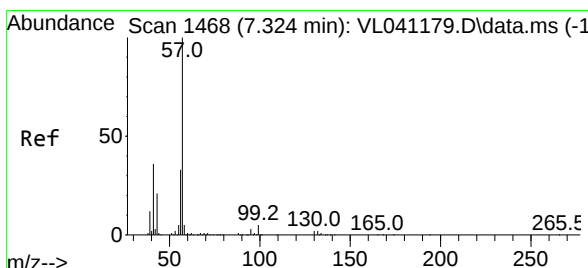
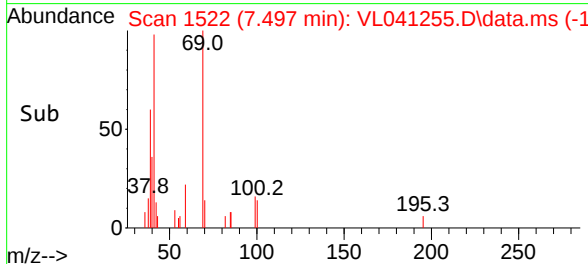
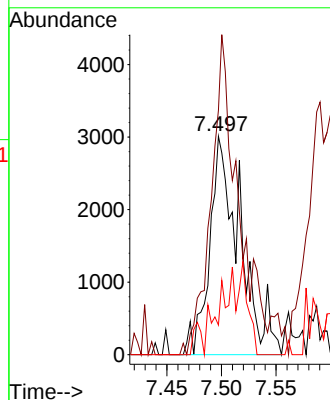
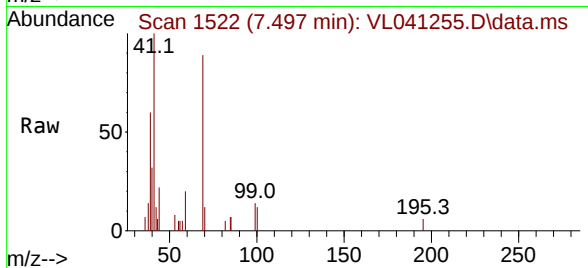
RT: 7.497 min Scan# 1522

Delta R.T. 0.010 min

Lab File: VL041255.D

Acq: 9 May 2024 12:45

Tgt Ion:	69	Resp:	5863
Ion	Ratio	Lower	Upper
69	100		
41	137.1	125.2	187.8
100	0.0	26.7	40.1#



#44

2,2,4-Trimethylpentane

Concen: 0.089 ppbv m

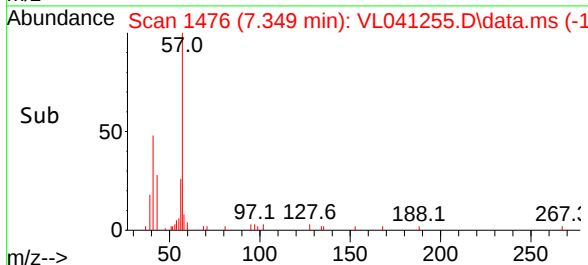
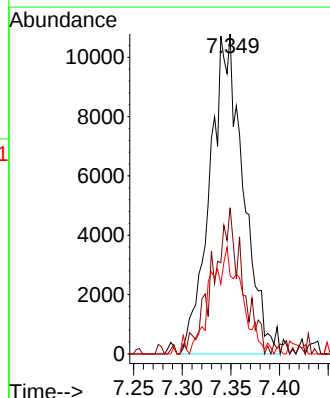
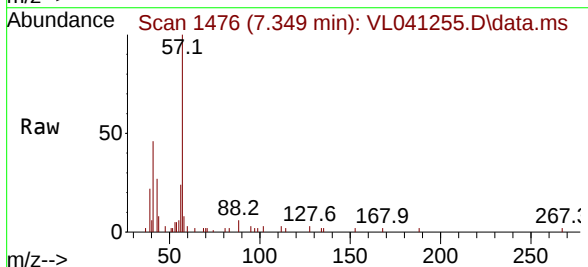
RT: 7.349 min Scan# 1476

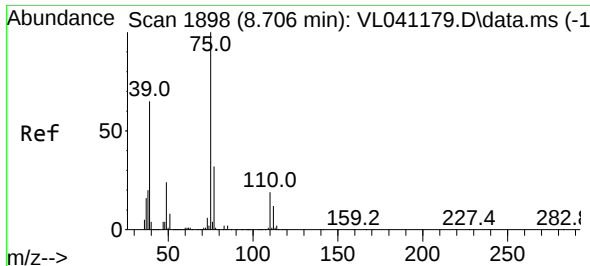
Delta R.T. 0.010 min

Lab File: VL041255.D

Acq: 9 May 2024 12:45

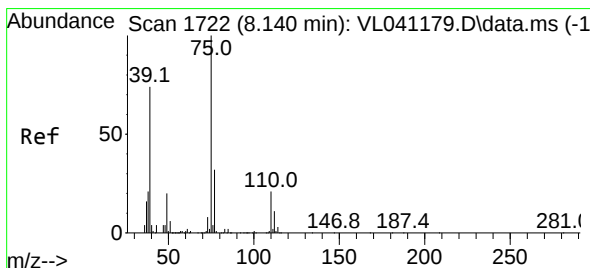
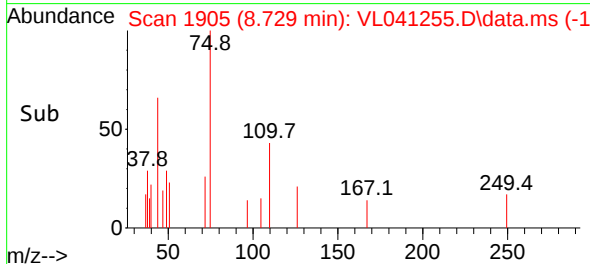
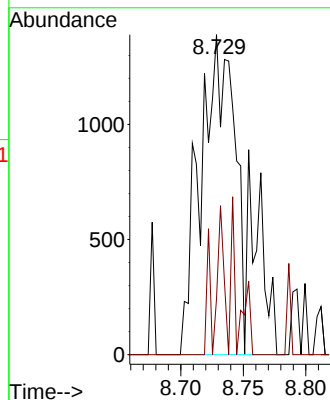
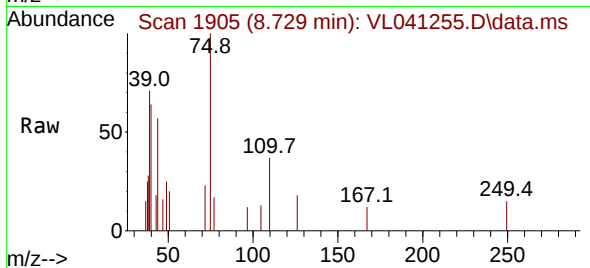
Tgt Ion:	57	Resp:	25878
Ion	Ratio	Lower	Upper
57	100		
41	0.0	29.5	44.3#
56	0.0	25.3	37.9#





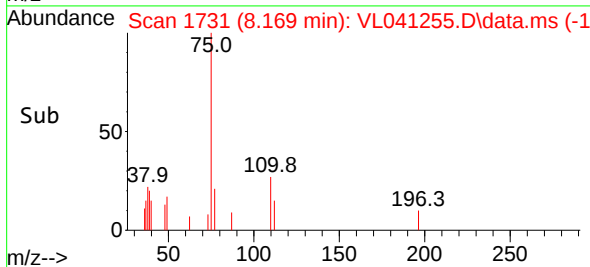
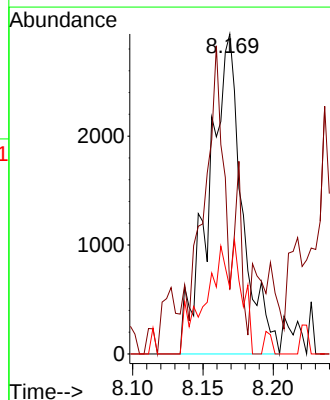
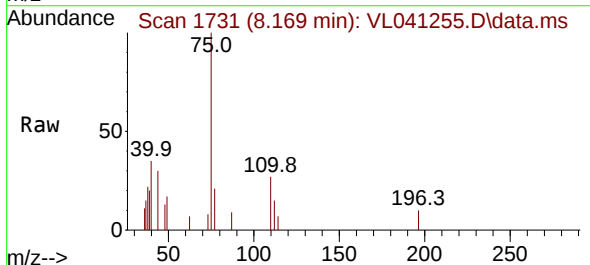
#45
 t-1,3-Dichloropropene
 Concen: 0.066 ppbv m
 RT: 8.729 min Scan# 1905
 Delta R.T. 0.006 min
 Lab File: VL041255.D
 Acq: 9 May 2024 12:45

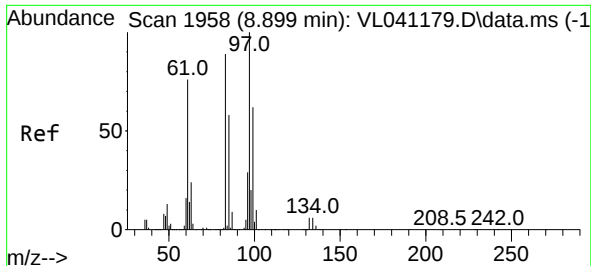
Tgt Ion: 75 Resp: 3263
 Ion Ratio Lower Upper
 75 100
 77 24300.0 25.6 38.4#



#46
 cis-1,3-Dichloropropene
 Concen: 0.080 ppbv m
 RT: 8.169 min Scan# 1731
 Delta R.T. 0.013 min
 Lab File: VL041255.D
 Acq: 9 May 2024 12:45

Tgt Ion: 75 Resp: 4846
 Ion Ratio Lower Upper
 75 100
 39 20.1 59.4 89.2#
 77 20.7 25.9 38.9#





#47

1,1,2-Trichloroethane

Concen: 0.095 ppbv m

RT: 8.915 min Scan# 1963

Delta R.T. -0.000 min

Lab File: VL041255.D

Acq: 9 May 2024 12:45

Tgt Ion: 97 Resp: 6131

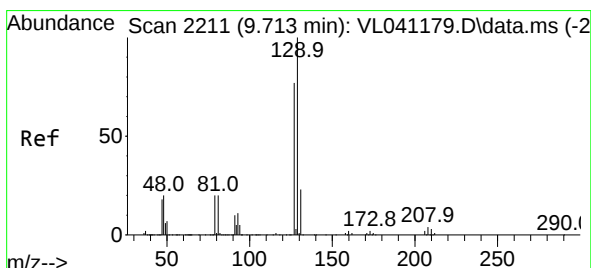
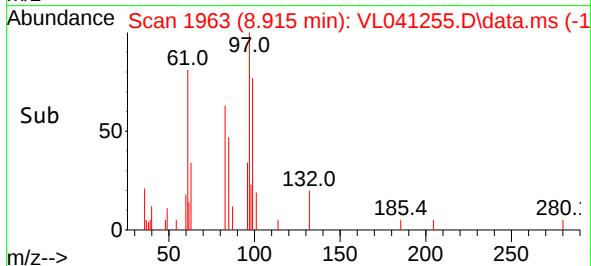
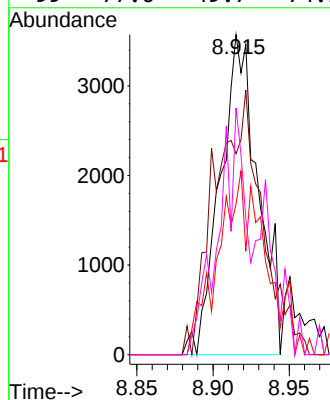
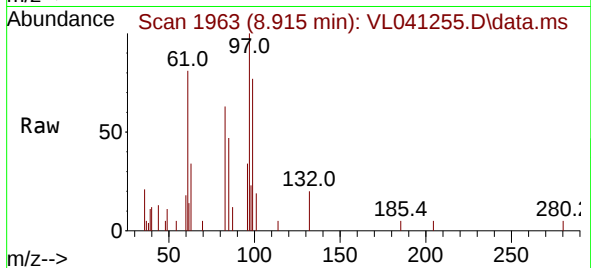
Ion Ratio Lower Upper

97 100

83 62.8 71.2 106.8#

85 47.1 46.0 69.0

99 77.0 49.7 74.5#



#48

Dibromochloromethane

Concen: 0.086 ppbv m

RT: 9.725 min Scan# 2215

Delta R.T. -0.000 min

Lab File: VL041255.D

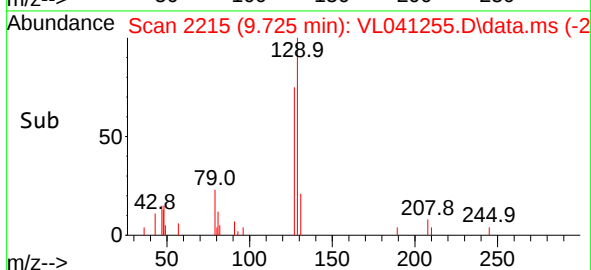
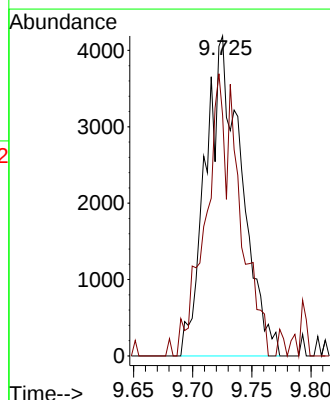
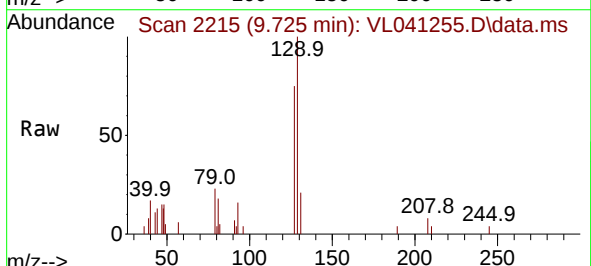
Acq: 9 May 2024 12:45

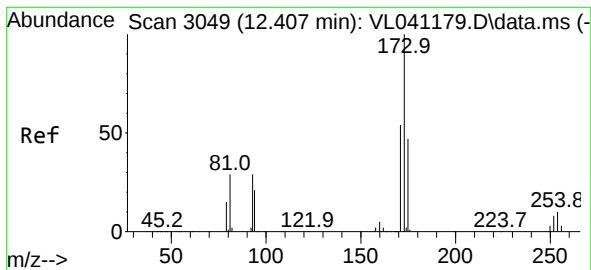
Tgt Ion: 129 Resp: 8868

Ion Ratio Lower Upper

129 100

127 0.0 39.1 117.5#





#49

Bromoform

Concen: 0.074 ppbv m

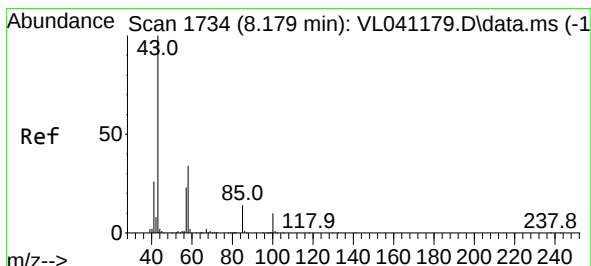
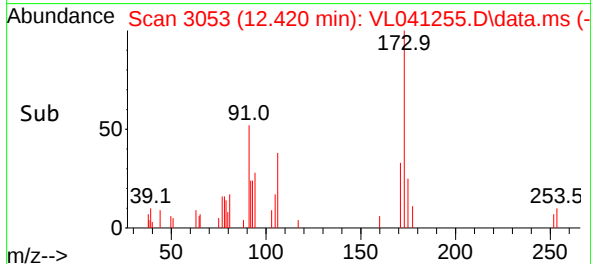
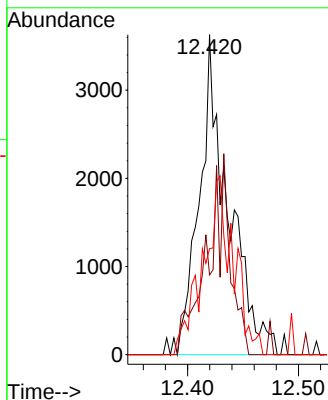
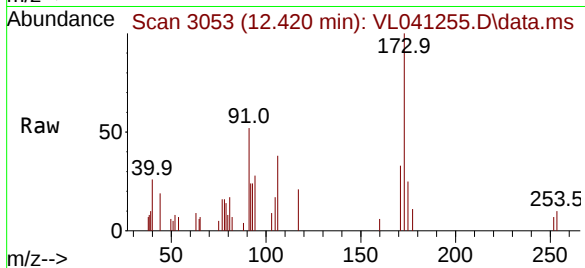
RT: 12.420 min Scan# 3053

Delta R.T. -0.000 min

Lab File: VL041255.D

Acq: 9 May 2024 12:45

Tgt Ion:173	Resp:	6541
Ion Ratio	Lower	Upper
173	100	
175	49.9	39.8 59.8
171	58.3	41.8 62.8



#50

4-Methyl-2-Pentanone

Concen: 0.087 ppbv m

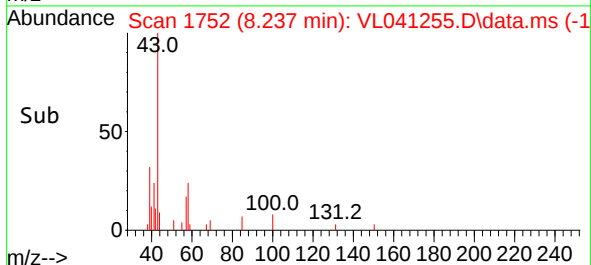
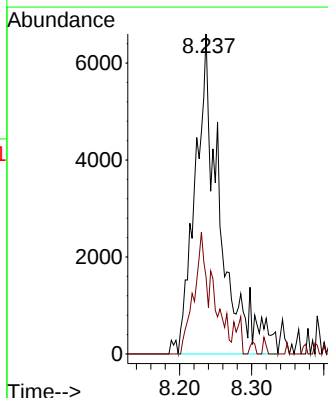
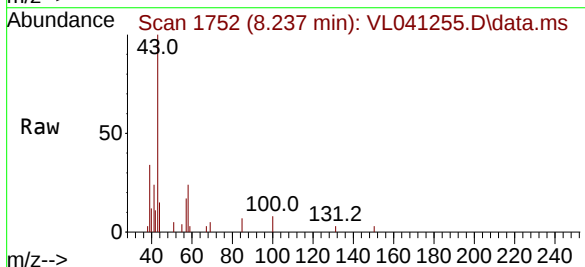
RT: 8.237 min Scan# 1752

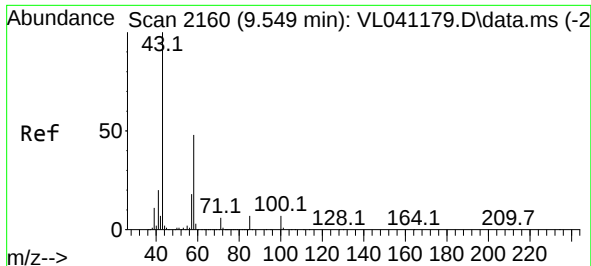
Delta R.T. 0.042 min

Lab File: VL041255.D

Acq: 9 May 2024 12:45

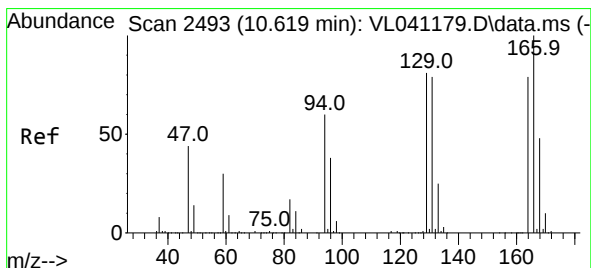
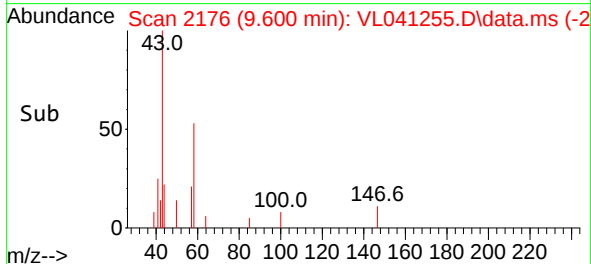
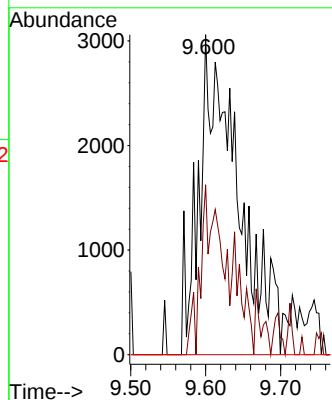
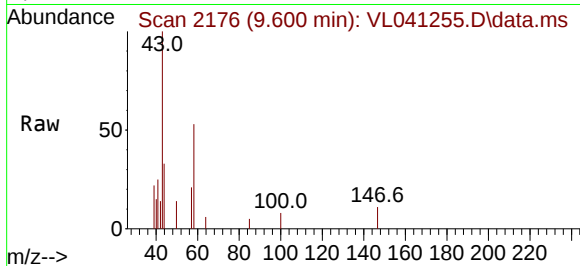
Tgt Ion: 43	Resp:	15872
Ion Ratio	Lower	Upper
43	100	
58	0.0	27.7 41.5#





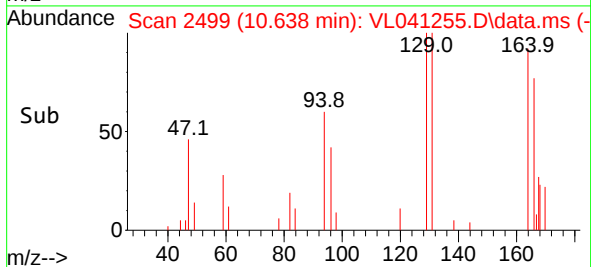
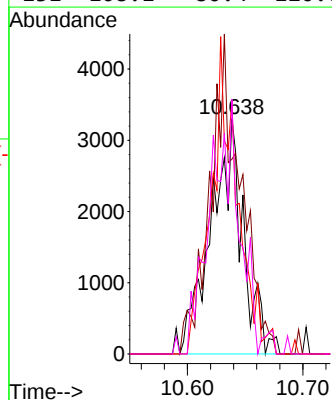
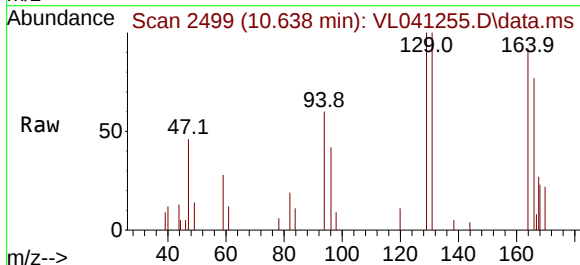
#51
2-Hexanone
Concen: 0.081 ppbv m
RT: 9.600 min Scan# 2176
Delta R.T. 0.035 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

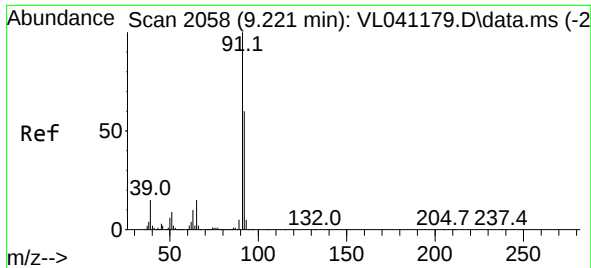
Tgt Ion: 43 Resp: 10940
Ion Ratio Lower Upper
43 100
58 0.0 38.4 57.6#
98 0.0 0.0 0.0



#52
Tetrachloroethene
Concen: 0.108 ppbv m
RT: 10.638 min Scan# 2499
Delta R.T. 0.010 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

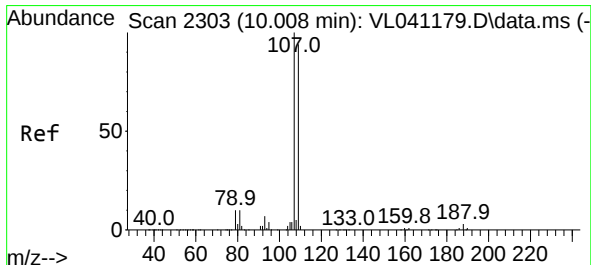
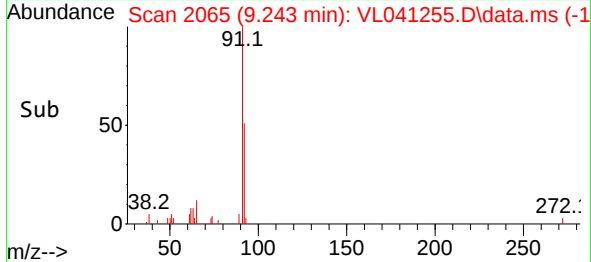
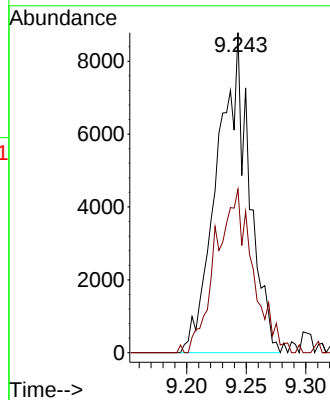
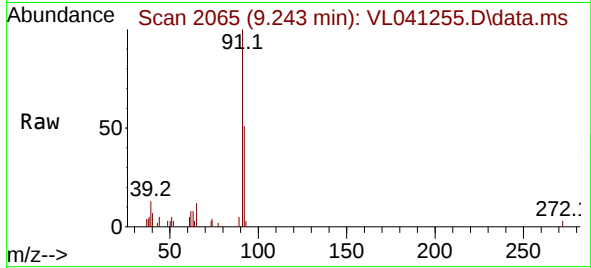
Tgt Ion: 164 Resp: 6381
Ion Ratio Lower Upper
164 100
166 82.8 101.1 151.7#
129 107.9 81.7 122.5
131 108.1 80.4 120.6





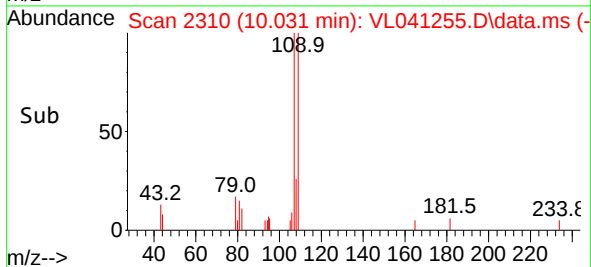
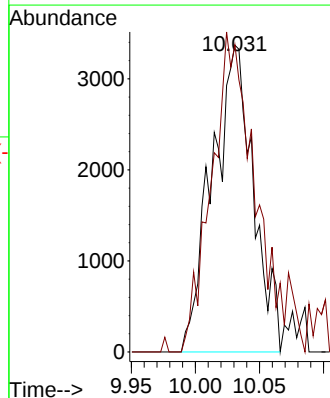
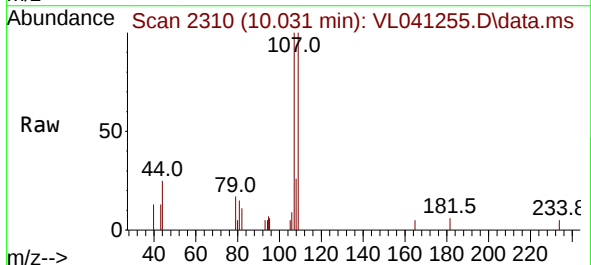
#53
Toluene
Concen: 0.084 ppbv m
RT: 9.243 min Scan# 2065
Delta R.T. 0.010 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

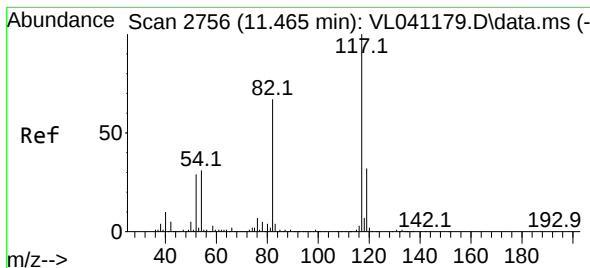
Tgt Ion: 91 Resp: 16464
Ion Ratio Lower Upper
91 100
92 0.0 48.2 72.4#



#54
1,2-Dibromoethane
Concen: 0.086 ppbv m
RT: 10.031 min Scan# 2310
Delta R.T. 0.010 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

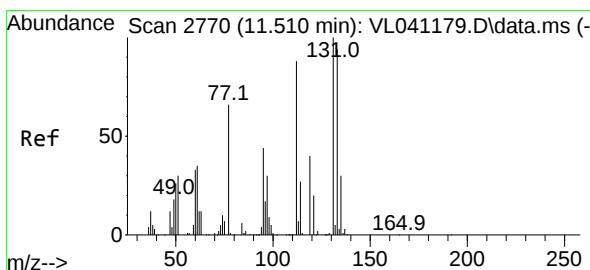
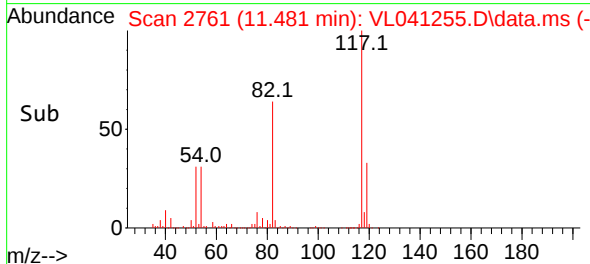
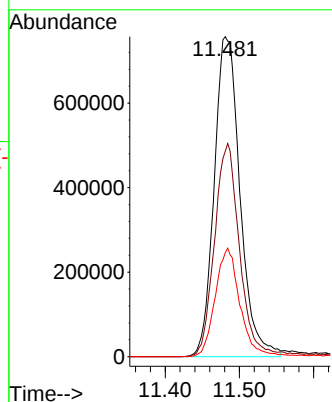
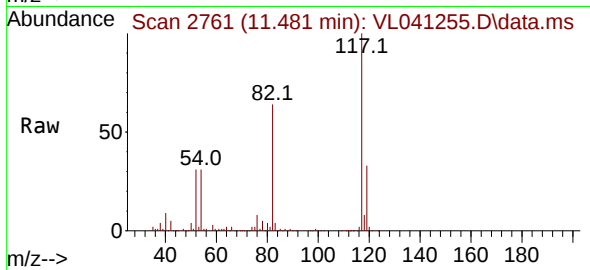
Tgt Ion: 107 Resp: 7549
Ion Ratio Lower Upper
107 100
109 100.1 75.2 112.8





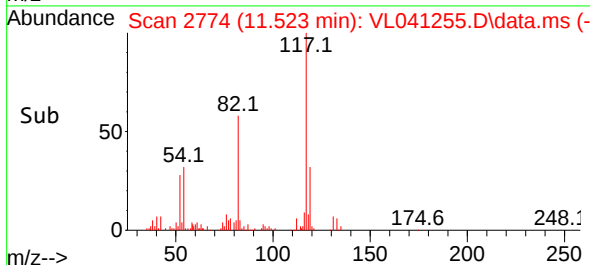
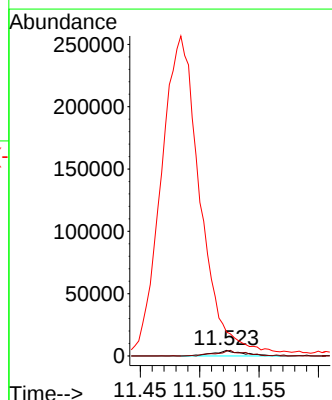
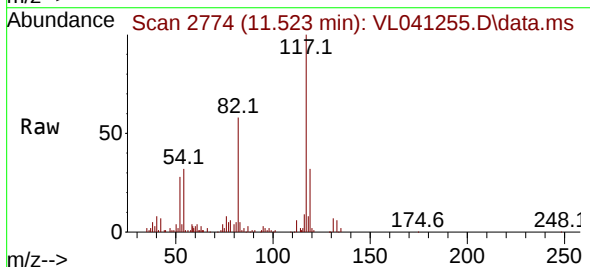
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.481 min Scan# 2761
Delta R.T. -0.000 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

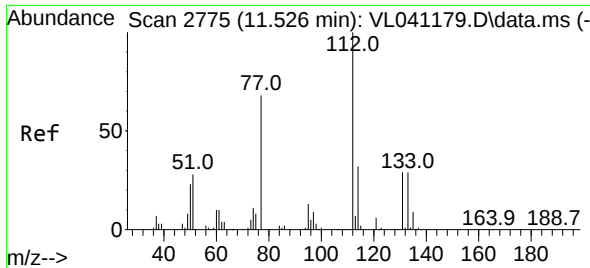
Tgt Ion:117 Resp: 1830382
Ion Ratio Lower Upper
117 100
82 66.3 53.6 80.4
119 32.9 27.2 40.8



#56
1,1,1,2-Tetrachloroethane
Concen: 0.103 ppbv m
RT: 11.523 min Scan# 2774
Delta R.T. -0.000 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

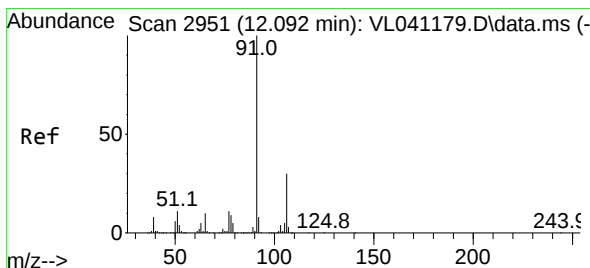
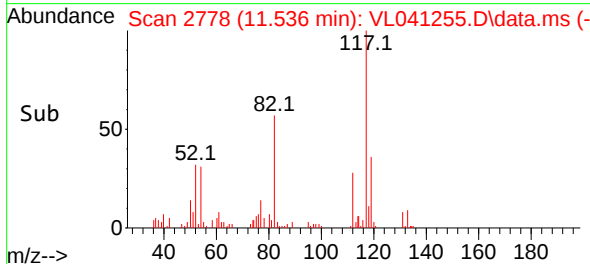
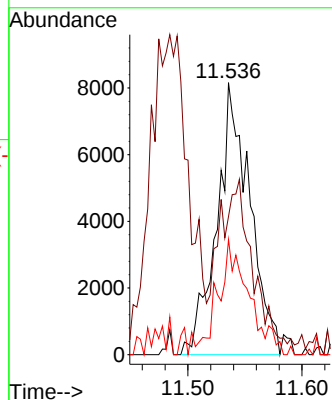
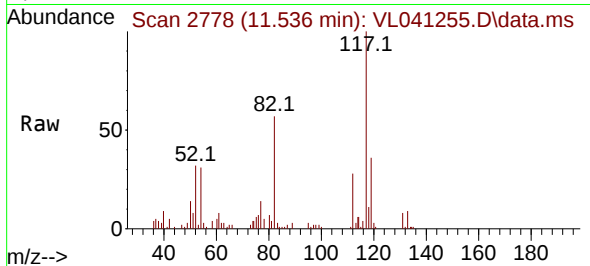
Tgt Ion:131 Resp: 7623
Ion Ratio Lower Upper
131 100
133 103.3 76.3 114.5
119 7900.3 49.4 74.2#





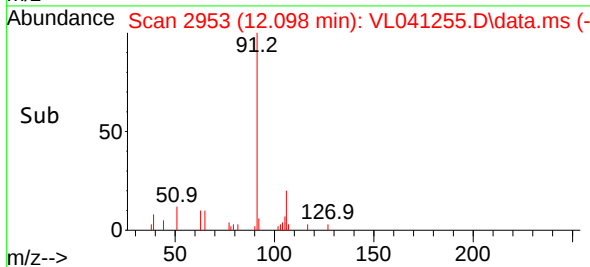
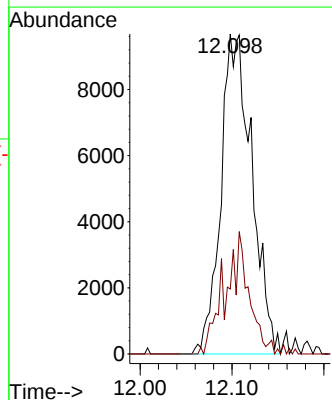
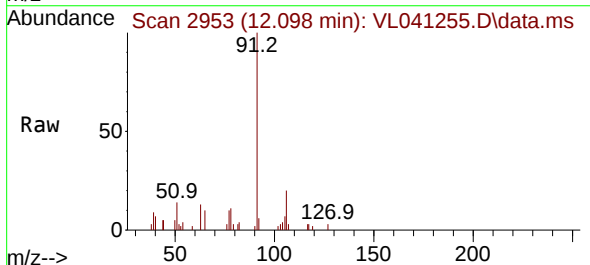
#57
Chlorobenzene
Concen: 0.122 ppbv m
RT: 11.536 min Scan# 2778
Delta R.T. -0.006 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

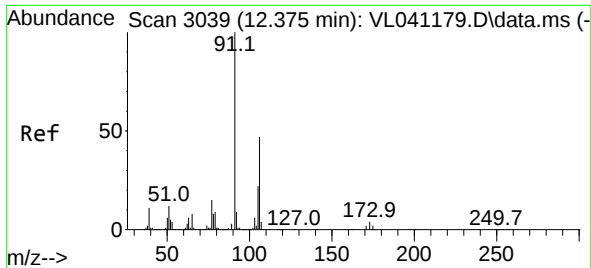
Tgt Ion: 112 Resp: 16324
Ion Ratio Lower Upper
112 100
77 50.8 54.9 82.3#
114 21.9 28.7 35.1#



#58
Ethyl Benzene
Concen: 0.090 ppbv m
RT: 12.098 min Scan# 2953
Delta R.T. -0.003 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

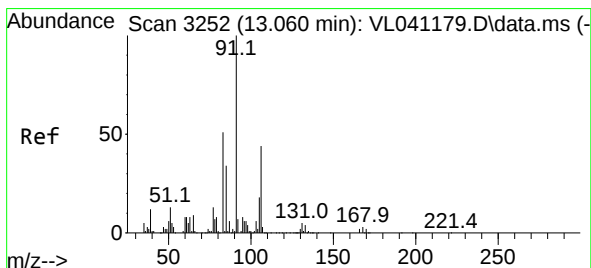
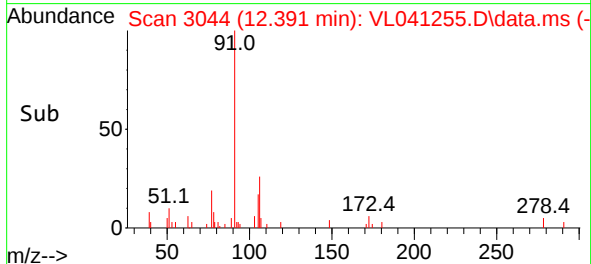
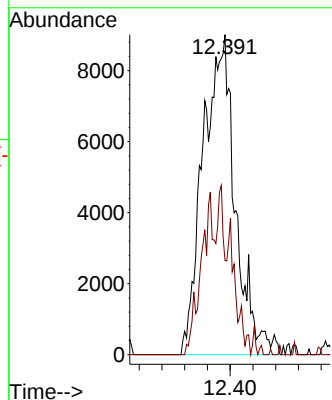
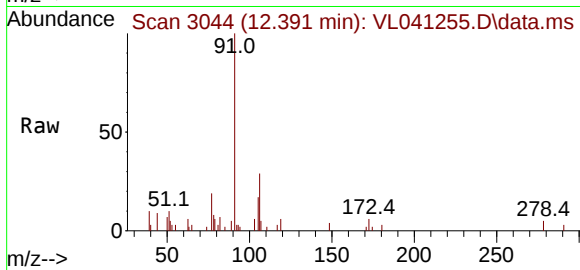
Tgt Ion: 91 Resp: 22628
Ion Ratio Lower Upper
91 100
106 20.3 24.3 36.5#





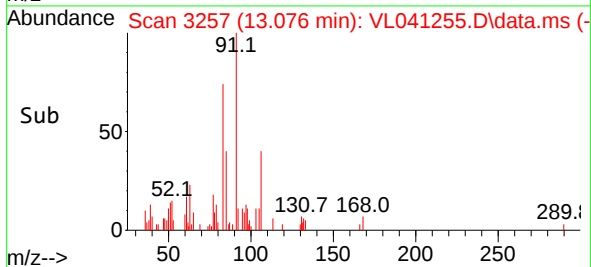
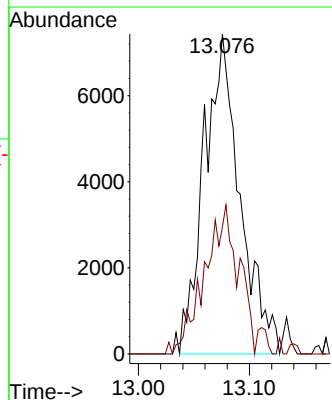
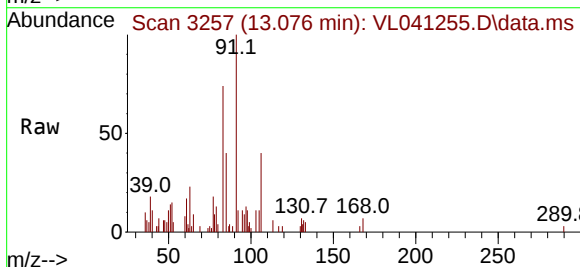
#59
m/p-Xylene
Concen: 0.168 ppbv m
RT: 12.391 min Scan# 3044
Delta R.T. 0.006 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

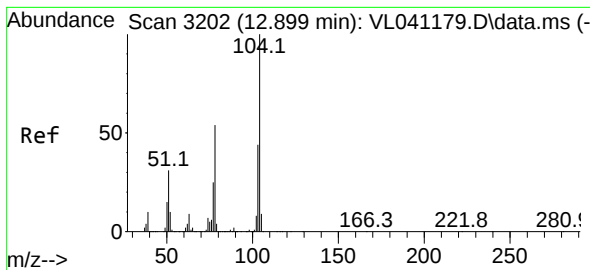
Tgt Ion: 91 Resp: 35467
Ion Ratio Lower Upper
91 100
106 43.2 35.7 53.5



#60
o-Xylene
Concen: 0.085 ppbv m
RT: 13.076 min Scan# 3257
Delta R.T. 0.006 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

Tgt Ion: 91 Resp: 16785
Ion Ratio Lower Upper
91 100
106 0.0 22.4 67.3#





#61

Styrene

Concen: 0.072 ppbv m

RT: 12.928 min Scan# 3211

Delta R.T. 0.019 min

Lab File: VL041255.D

Acq: 9 May 2024 12:45

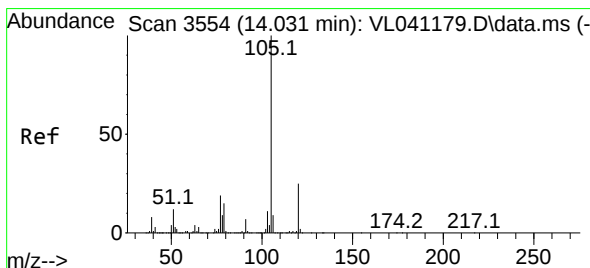
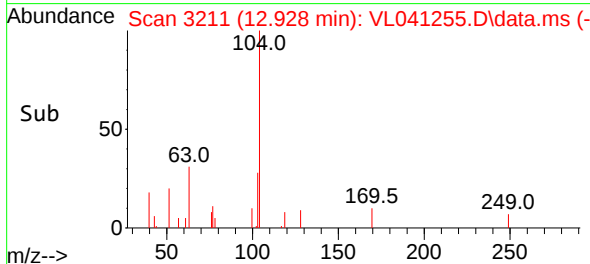
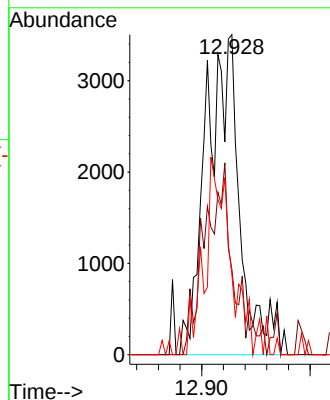
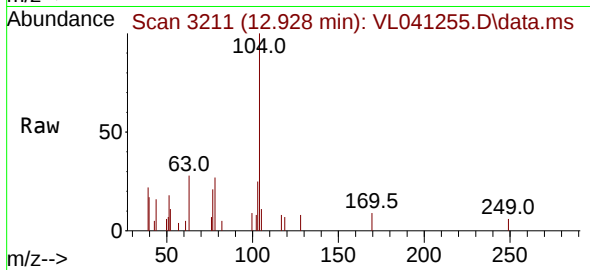
Tgt Ion:104 Resp: 7553

Ion Ratio Lower Upper

104 100

78 0.0 42.6 63.8#

103 49.6 38.4 57.6



#62

Isopropylbenzene

Concen: 0.096 ppbv m

RT: 14.043 min Scan# 3558

Delta R.T. 0.000 min

Lab File: VL041255.D

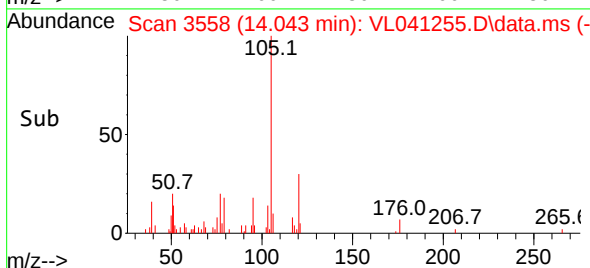
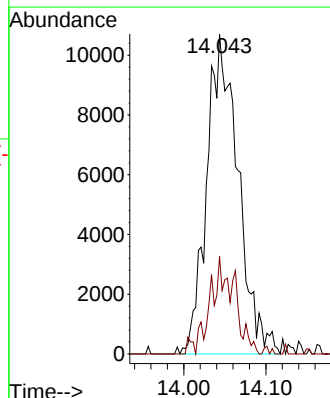
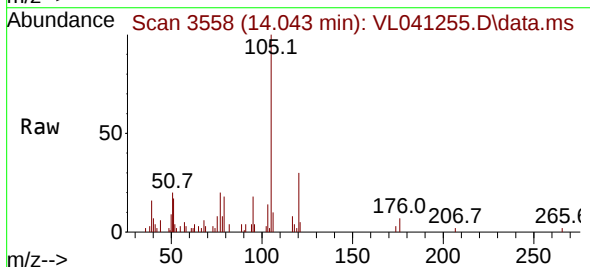
Acq: 9 May 2024 12:45

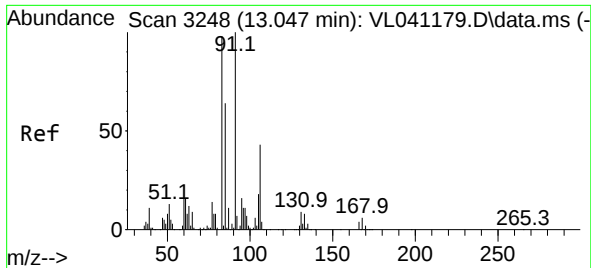
Tgt Ion:105 Resp: 28401

Ion Ratio Lower Upper

105 100

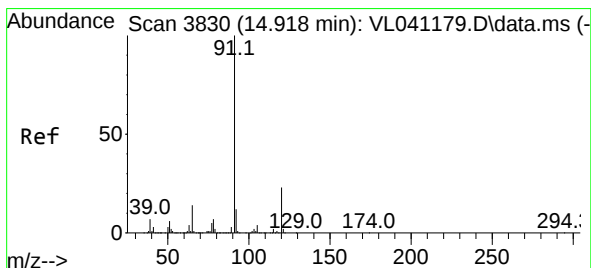
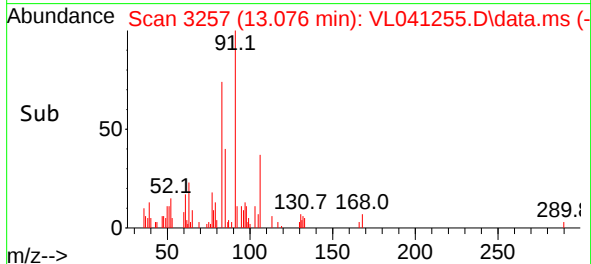
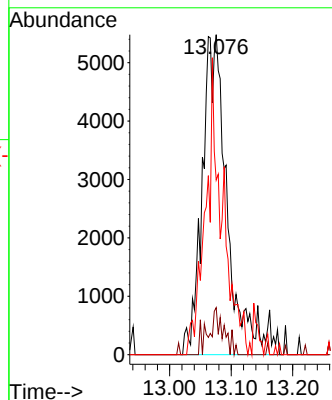
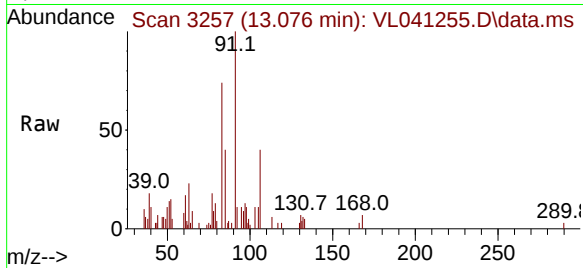
120 24.3 20.2 30.2





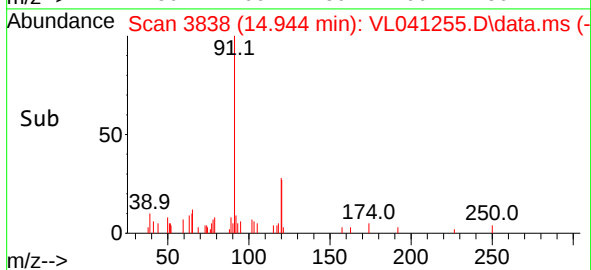
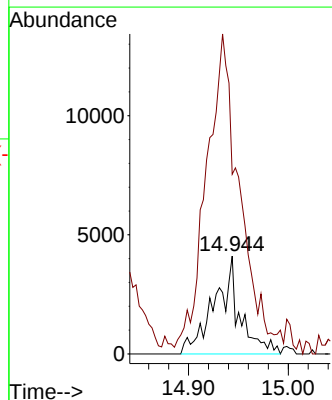
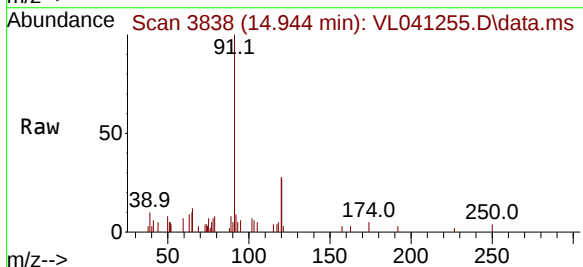
#63
1,1,2,2-Tetrachloroethane
Concen: 0.117 ppbv m
RT: 13.076 min Scan# 3257
Delta R.T. 0.016 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

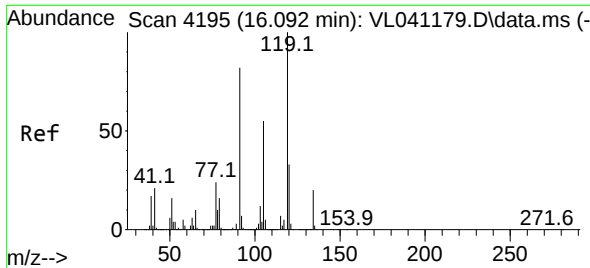
Tgt Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.5	13.5#
85	0.0	32.7	98.1#



#64
n-propylbenzene
Concen: 0.099 ppbv m
RT: 14.944 min Scan# 3838
Delta R.T. 0.013 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

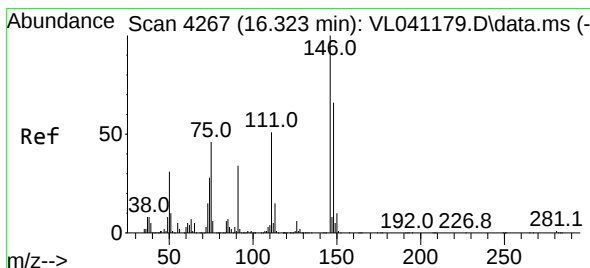
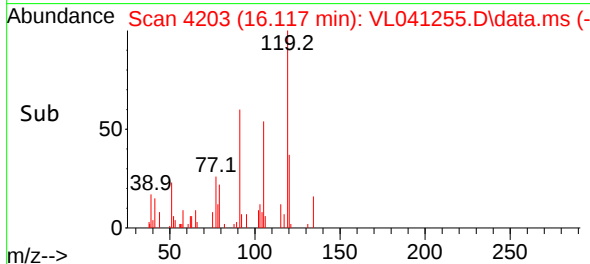
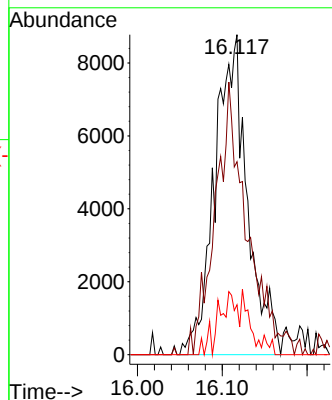
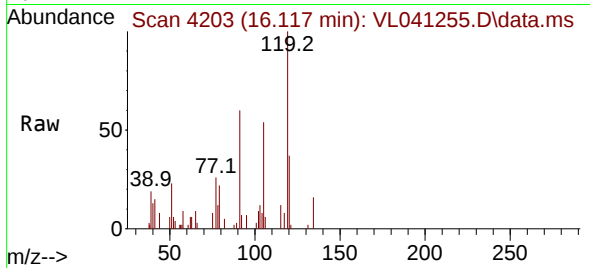
Tgt Ion	Ratio	Lower	Upper
120	100		
91	15.7	384.8	577.2#





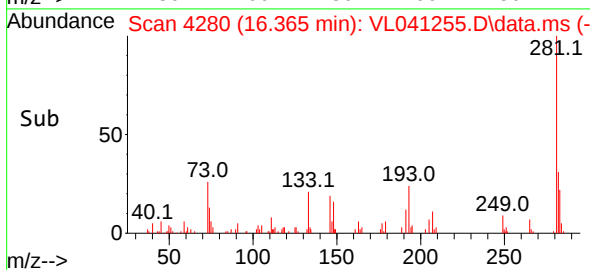
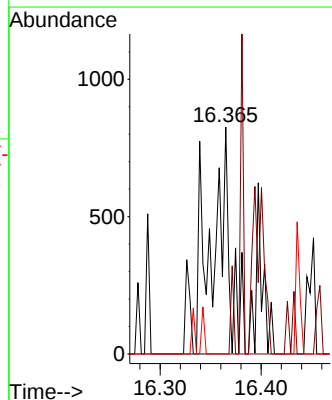
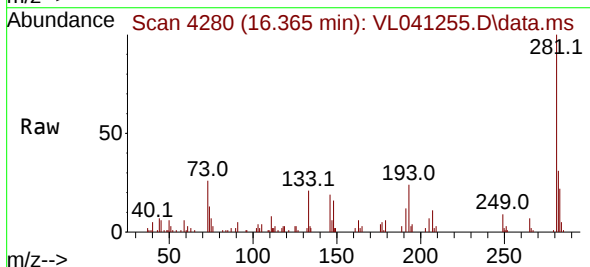
#65
tert-Butylbenzene
Concen: 0.088 ppbv m
RT: 16.117 min Scan# 4203
Delta R.T. 0.016 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

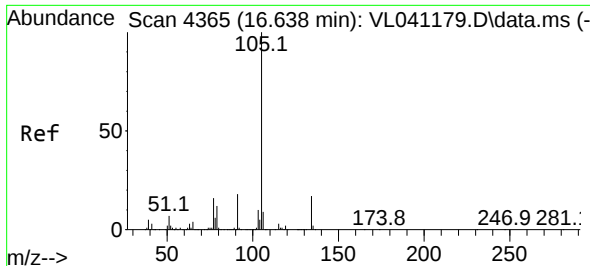
Tgt Ion: 119 Resp: 23419
Ion Ratio Lower Upper
119 100
91 0.0 67.0 100.4#
134 0.0 15.2 22.8#



#66
Benzyl Chloride
Concen: 0.047 ppbv m
RT: 16.365 min Scan# 4280
Delta R.T. 0.019 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

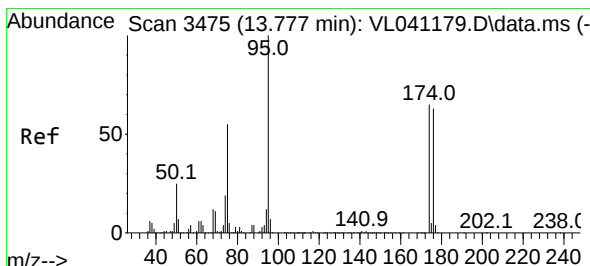
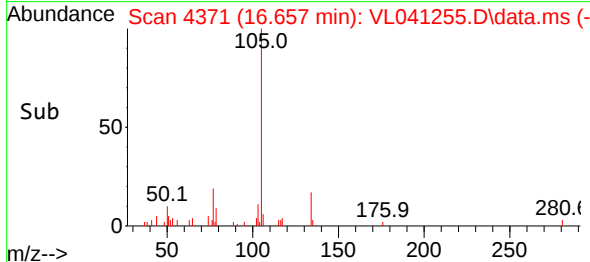
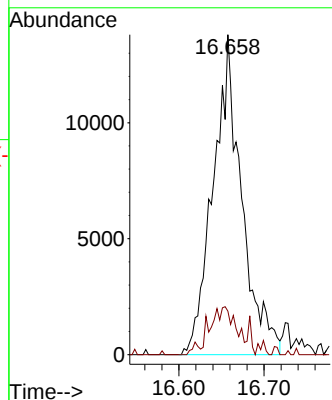
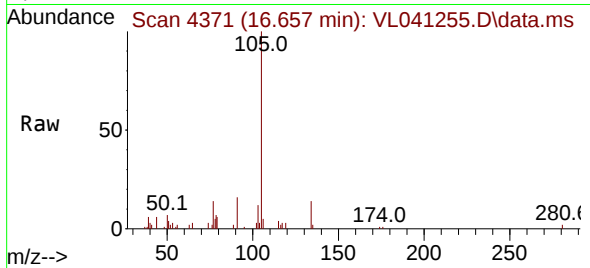
Tgt Ion: 91 Resp: 1396
Ion Ratio Lower Upper
91 100
126 0.0 14.6 21.8#
128 0.0 4.7 7.1#





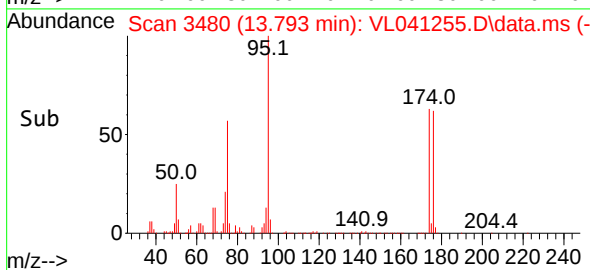
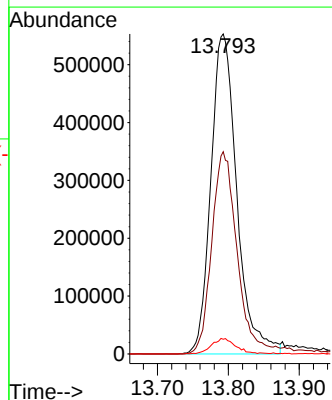
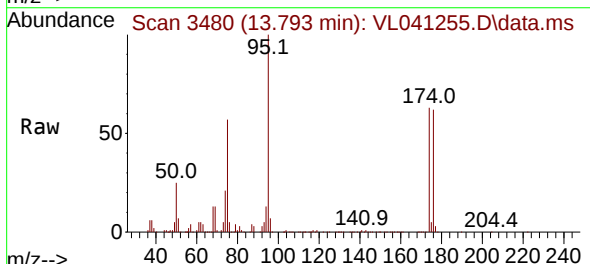
#67
 sec-Butylbenzene
 Concen: 0.086 ppbv m
 RT: 16.657 min Scan# 4371
 Delta R.T. 0.010 min
 Lab File: VL041255.D
 Acq: 9 May 2024 12:45

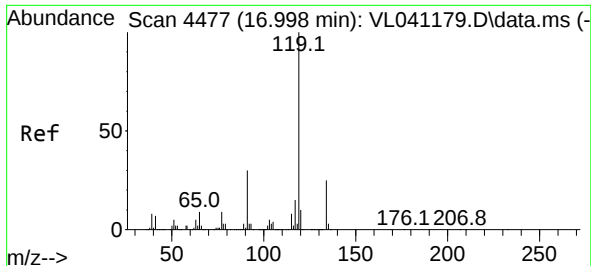
Tgt Ion:105 Resp: 32085
 Ion Ratio Lower Upper
 105 100
 134 16.4 13.8 20.8



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.185 ppbv
 RT: 13.793 min Scan# 3480
 Delta R.T. 0.006 min
 Lab File: VL041255.D
 Acq: 9 May 2024 12:45

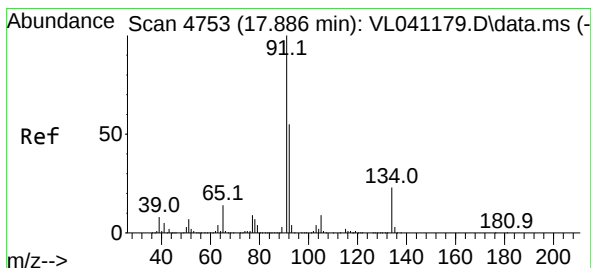
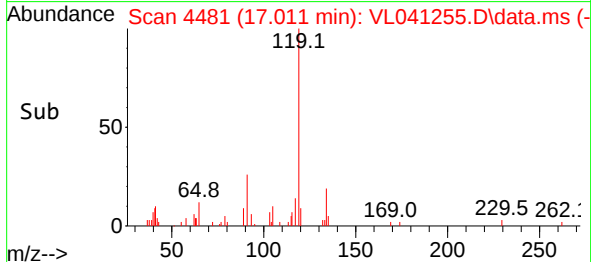
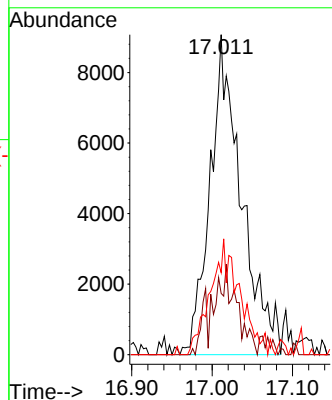
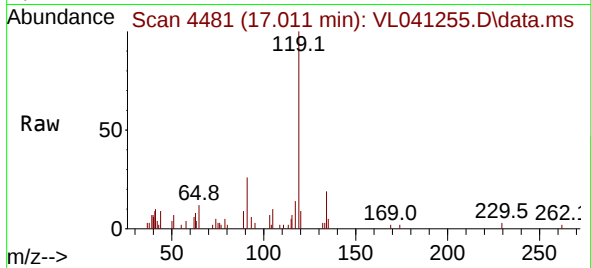
Tgt Ion: 95 Resp: 1407371
 Ion Ratio Lower Upper
 95 100
 174 63.8 53.6 80.4
 175 4.8 4.2 6.4





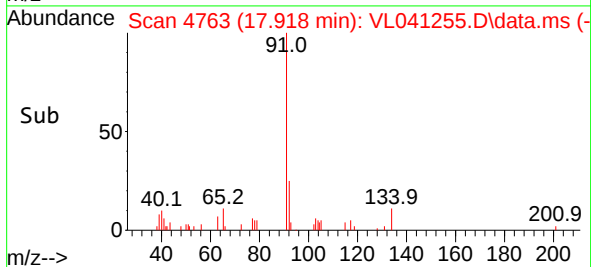
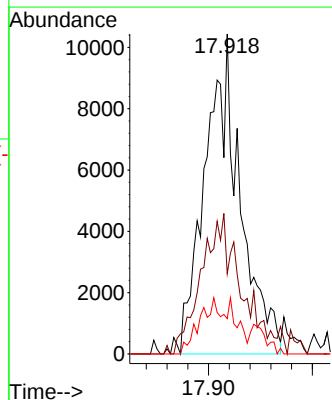
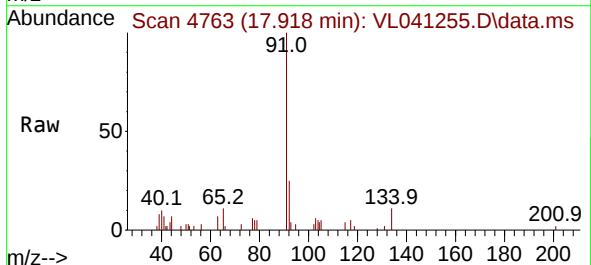
#69
p-Isopropyltoluene
Concen: 0.080 ppbv m
RT: 17.011 min Scan# 4481
Delta R.T. 0.003 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

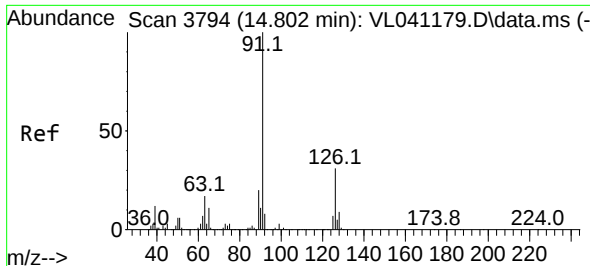
Tgt Ion:	119	Resp:	24579
Ion Ratio	Lower	Upper	
119	100		
134	0.0	20.1	30.1#
91	0.0	24.2	36.2#



#70
n-Butylbenzene
Concen: 0.076 ppbv m
RT: 17.918 min Scan# 4763
Delta R.T. 0.019 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

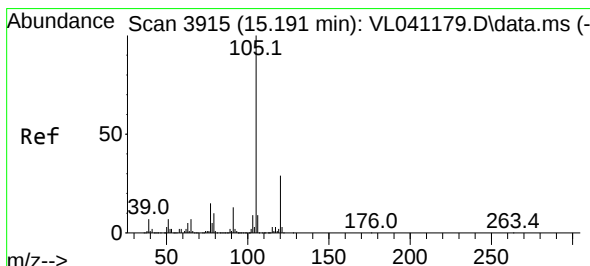
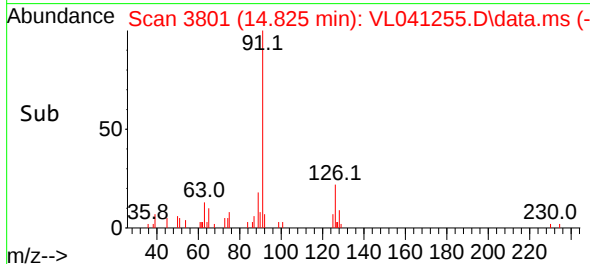
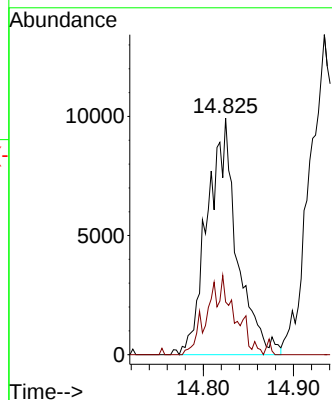
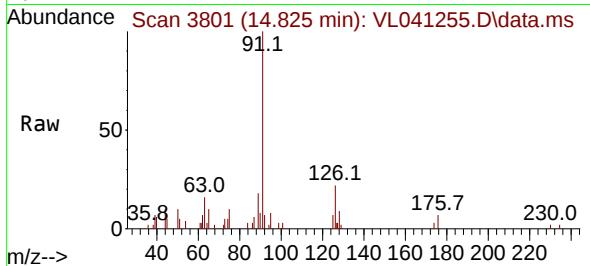
Tgt Ion:	91	Resp:	24435
Ion Ratio	Lower	Upper	
91	100		
92	0.0	43.3	64.9#
134	0.0	17.8	26.8#





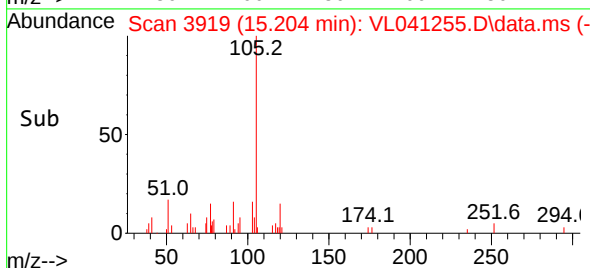
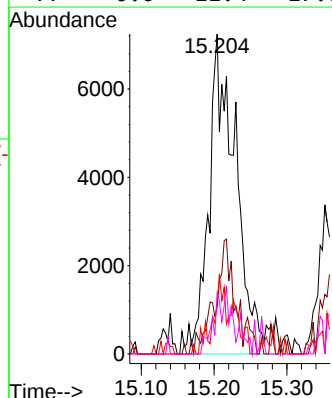
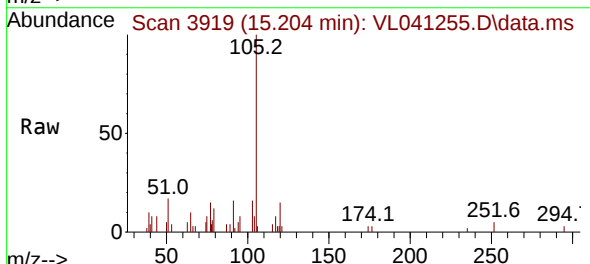
#71
2-Chlorotoluene
Concen: 0.100 ppbv m
RT: 14.825 min Scan# 3801
Delta R.T. 0.013 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

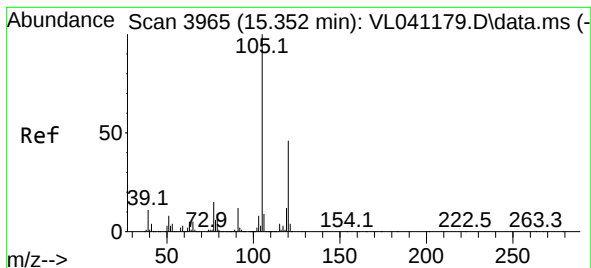
Tgt Ion: 91 Resp: 22615
Ion Ratio Lower Upper
91 100
126 0.0 12.2 48.8#



#72
4-Ethyltoluene
Concen: 0.085 ppbv m
RT: 15.204 min Scan# 3919
Delta R.T. -0.003 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

Tgt Ion: 105 Resp: 19001
Ion Ratio Lower Upper
105 100
120 0.0 24.7 37.1#
91 19.7 10.3 15.5#
77 0.0 11.4 17.0#





#73

1,3,5-Trimethylbenzene

Concen: 0.091 ppbv m

RT: 15.365 min Scan# 3969

Delta R.T. -0.000 min

Lab File: VL041255.D

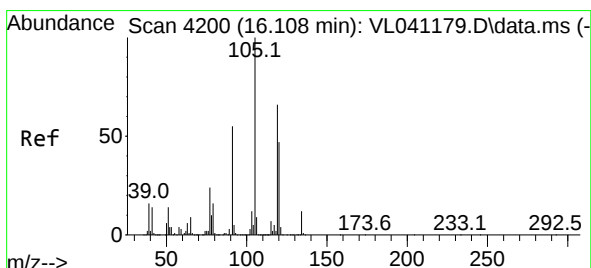
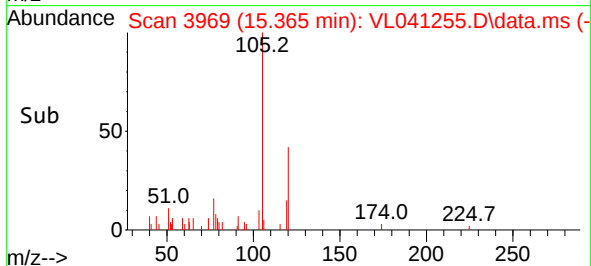
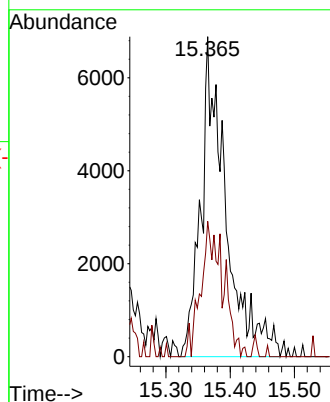
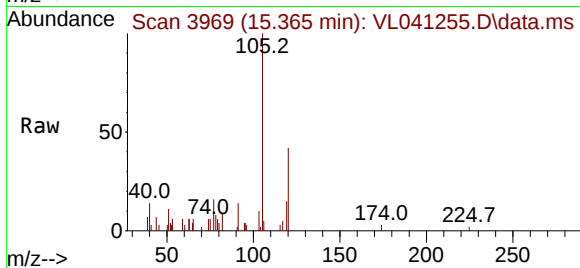
Acq: 9 May 2024 12:45

Tgt Ion:105 Resp: 18413

Ion Ratio Lower Upper

105 100

120 42.3 37.0 55.4



#74

1,2,4-Trimethylbenzene

Concen: 0.081 ppbv m

RT: 16.127 min Scan# 4206

Delta R.T. 0.006 min

Lab File: VL041255.D

Acq: 9 May 2024 12:45

Tgt Ion:105 Resp: 17891

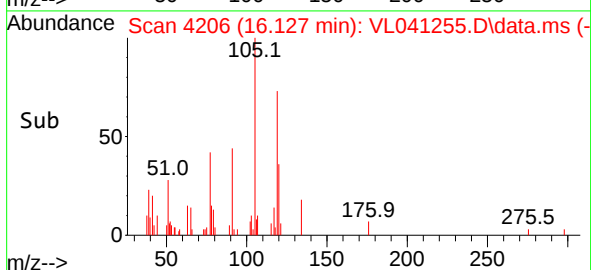
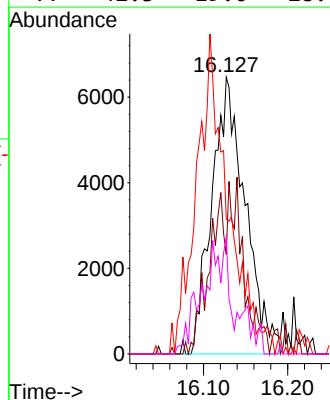
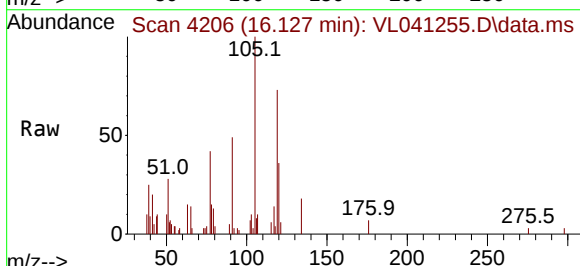
Ion Ratio Lower Upper

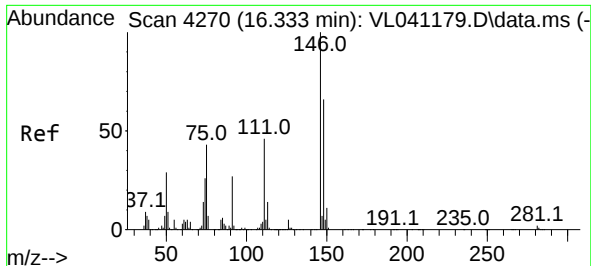
105 100

120 35.9 37.8 56.6#

91 48.7 44.3 66.5

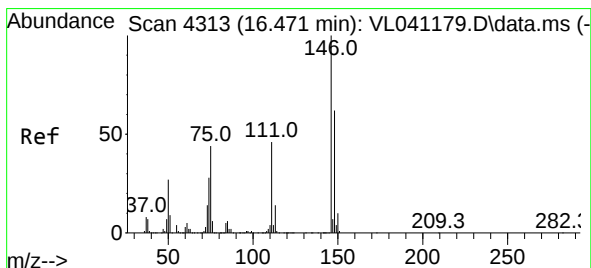
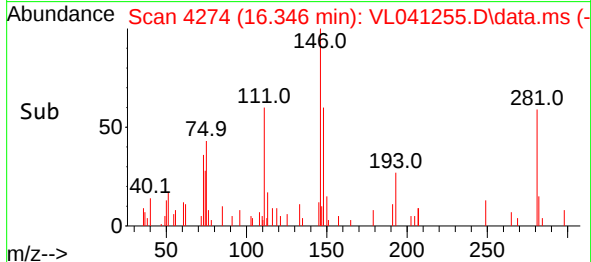
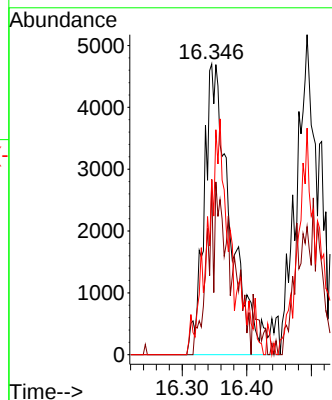
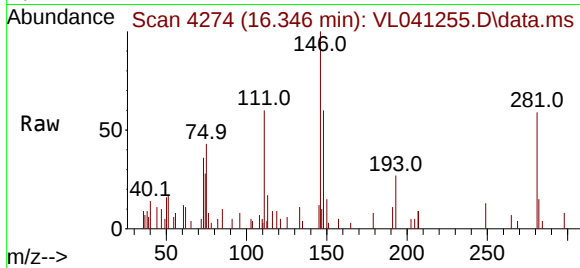
77 42.3 19.0 28.4#





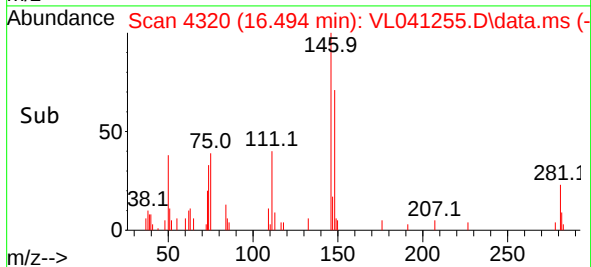
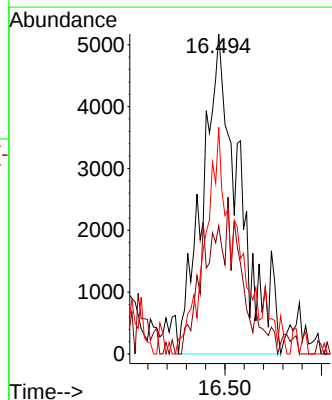
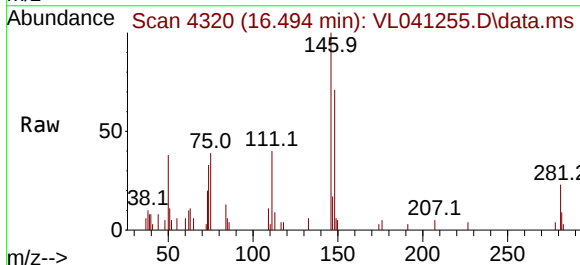
#75
1,3-Dichlorobenzene
Concen: 0.109 ppbv m
RT: 16.346 min Scan# 4274
Delta R.T. 0.003 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

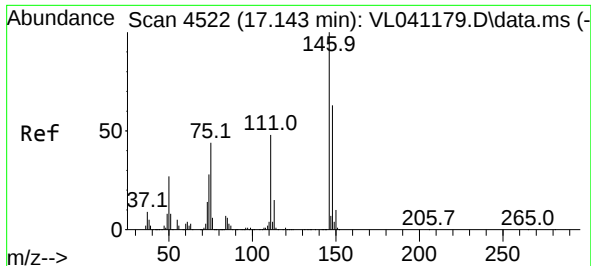
Tgt Ion:146 Resp: 13806
Ion Ratio Lower Upper
146 100
111 57.2 23.7 71.1
148 0.0 32.5 97.4#



#76
1,4-Dichlorobenzene
Concen: 0.113 ppbv m
RT: 16.494 min Scan# 4320
Delta R.T. 0.010 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

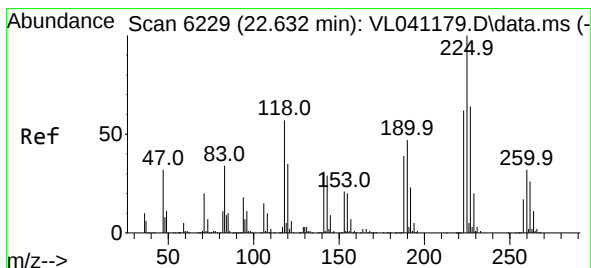
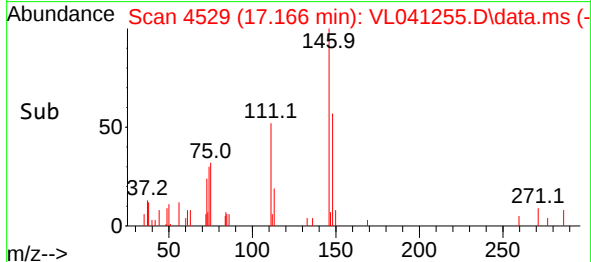
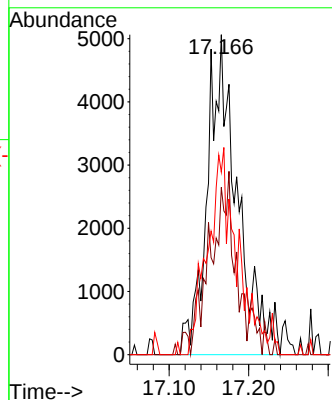
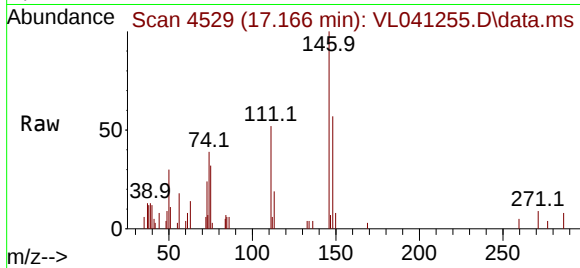
Tgt Ion:146 Resp: 13813
Ion Ratio Lower Upper
146 100
111 0.0 23.3 69.8#
148 0.0 32.6 97.7#





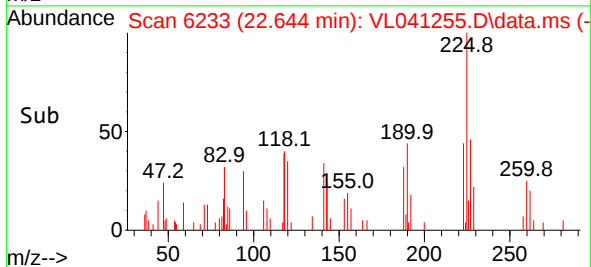
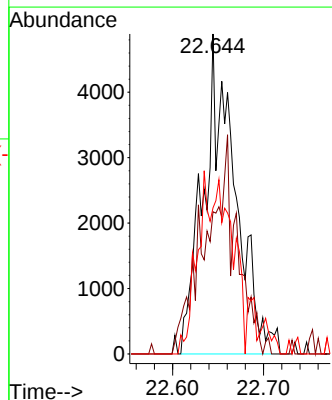
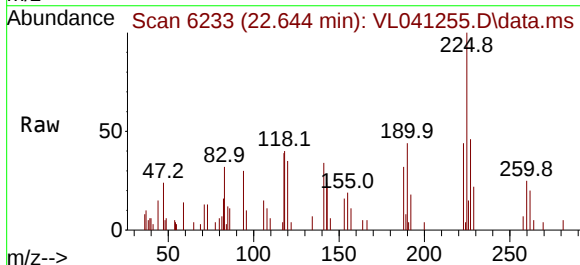
#77
1,2-Dichlorobenzene
Concen: 0.104 ppbv m
RT: 17.166 min Scan# 4529
Delta R.T. 0.006 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

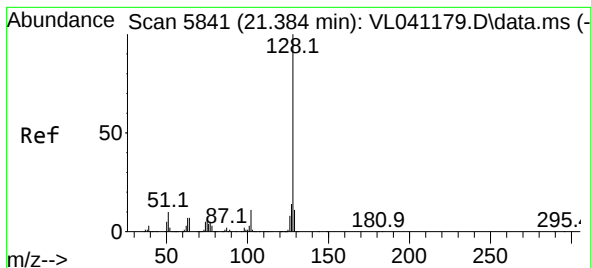
Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	24.5	73.5#
148	0.0	32.6	98.0#



#78
Hexachloro-1,3-Butadiene
Concen: 0.105 ppbv m
RT: 22.644 min Scan# 6233
Delta R.T. -0.003 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

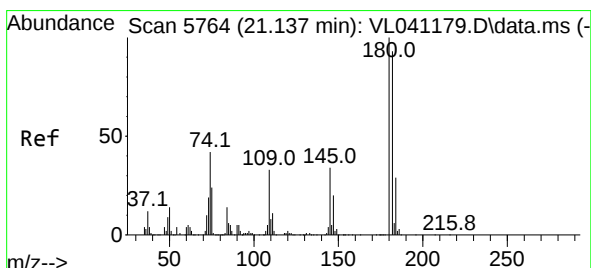
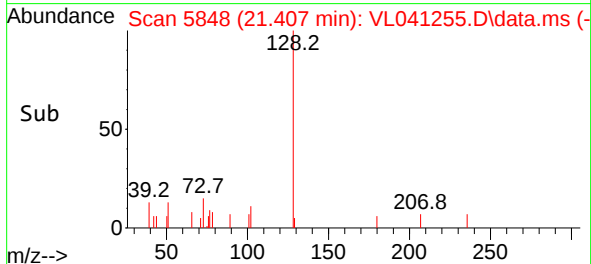
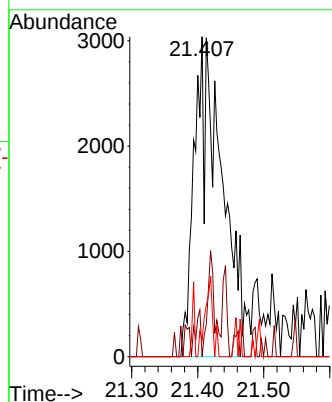
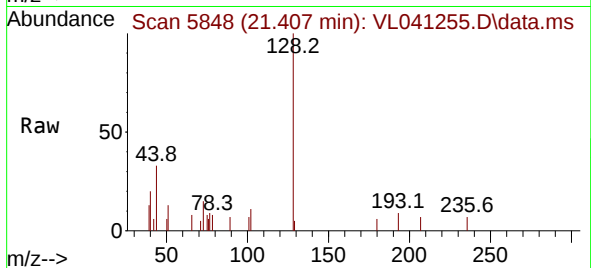
Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	50.9	76.3#
227	0.0	52.0	78.0#





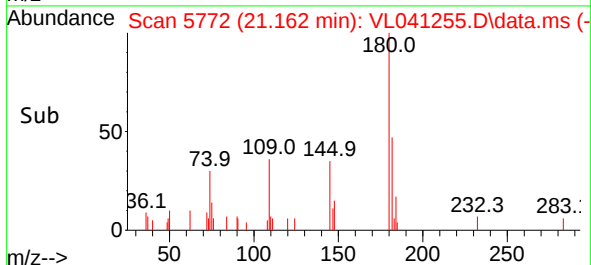
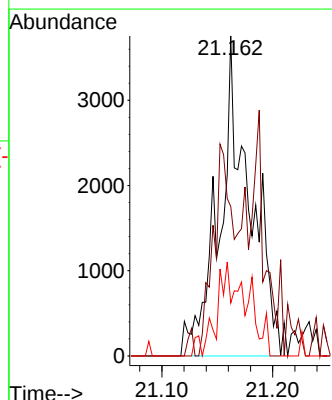
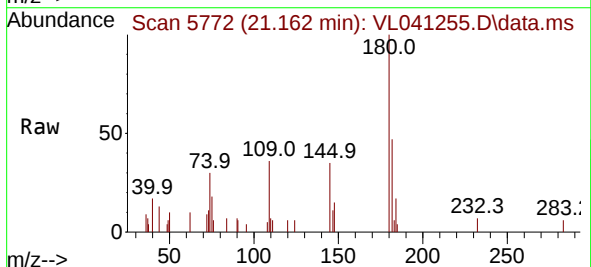
#79
Naphthalene
Concen: 0.049 ppbv m
RT: 21.407 min Scan# 5848
Delta R.T. 0.006 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

Tgt Ion:128 Resp: 10225
Ion Ratio Lower Upper
128 100
127 0.0 10.8 16.2#
129 5.1 8.9 13.3#



#81
1,2,4-Trichlorobenzene
Concen: 0.064 ppbv m
RT: 21.162 min Scan# 5772
Delta R.T. 0.010 min
Lab File: VL041255.D
Acq: 9 May 2024 12:45

Tgt Ion:180 Resp: 7104
Ion Ratio Lower Upper
180 100
182 0.0 77.2 115.8#
184 0.0 24.6 36.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050924\
 Data File : VL041256.D
 Acq On : 9 May 2024 13:23
 Operator : SY/MD
 Sample : P2403-15 MDL 0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 10 02:09:15 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 10 01:23:08 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.208	49	768482	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.668	114	1997985	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.481	117	1815331	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.790	95	1374537	10.030	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.300%
Target Compounds						
						Qvalue
35) Carbon Tetrachloride	6.504	117	4512m	0.040	ppbv	
38) Trichloroethene	7.301	130	2456m	0.039	ppbv	
52) Tetrachloroethene	10.626	164	1901m	0.032	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.069	83	4937m	0.037	ppbv	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050924\
Data File : VL041256.D
Acq On : 9 May 2024 13:23
Operator : SY/MD
Sample : P2403-15 MDL 0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

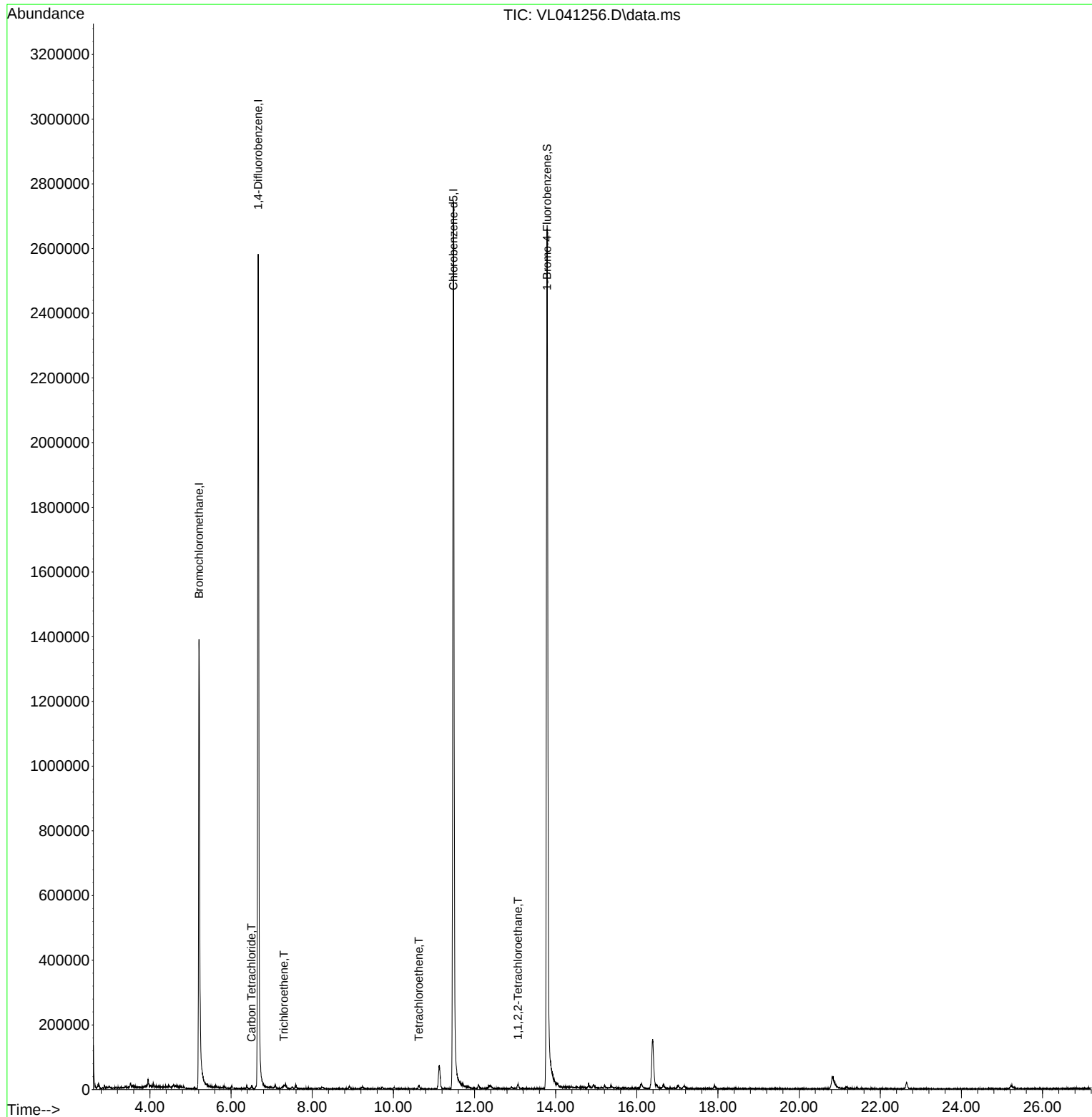
Quant Time: May 10 02:09:15 2024

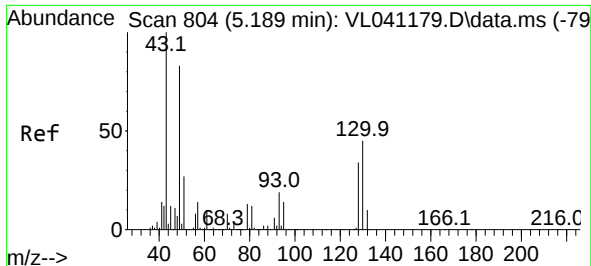
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

QLast Update : Fri May 10 01:23:08 2024

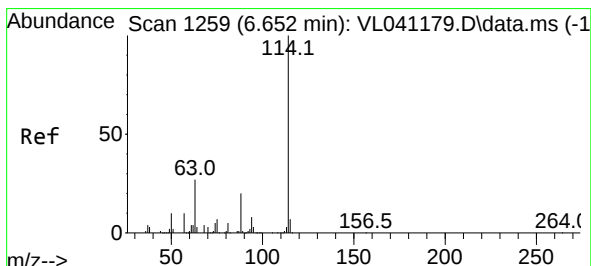
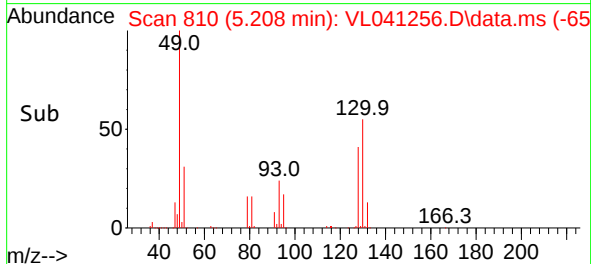
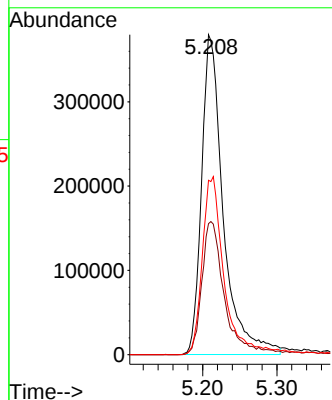
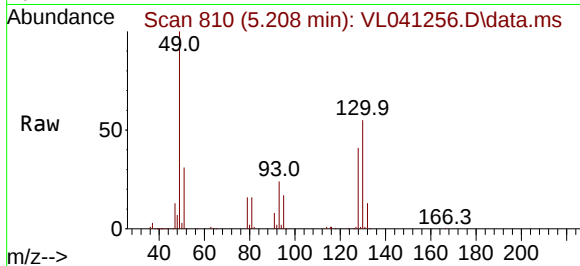
Response via : Initial Calibration





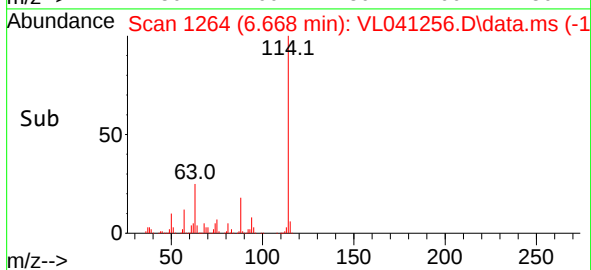
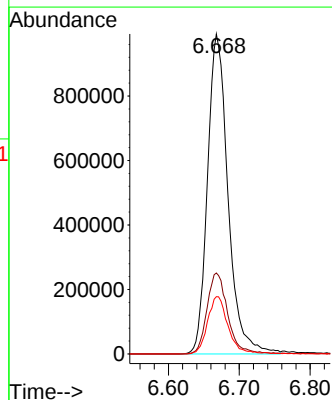
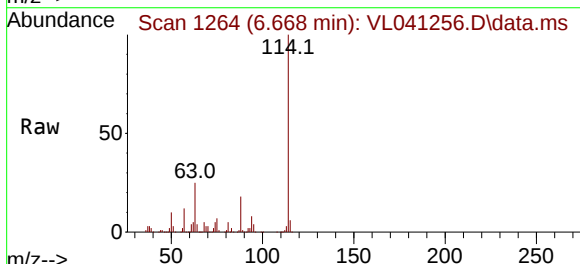
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.208 min Scan# 810
Delta R.T. 0.003 min
Lab File: VL041256.D
Acq: 9 May 2024 13:23

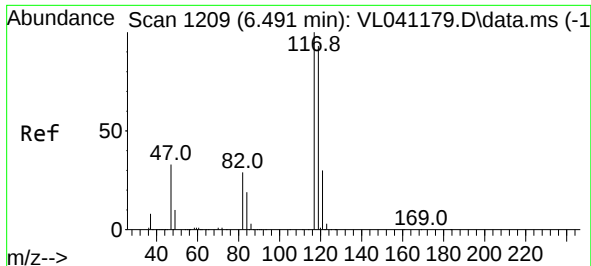
Tgt Ion: 49 Resp: 768482
Ion Ratio Lower Upper
49 100
128 44.6 21.5 64.5
130 58.0 27.2 81.6



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.668 min Scan# 1264
Delta R.T. 0.000 min
Lab File: VL041256.D
Acq: 9 May 2024 13:23

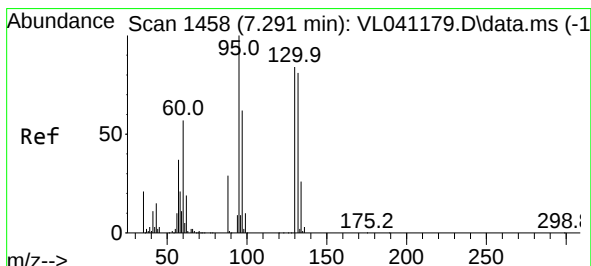
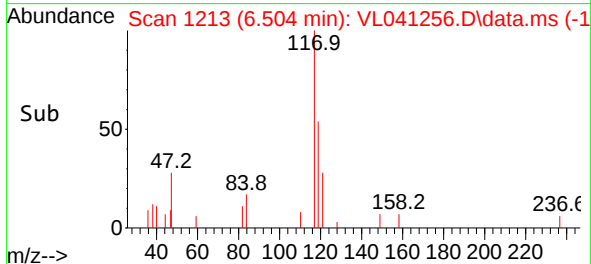
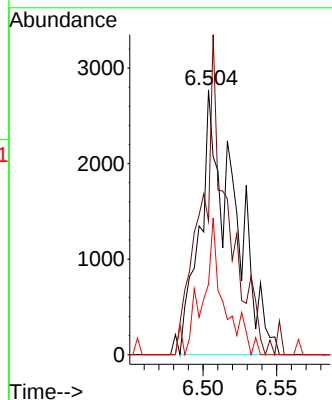
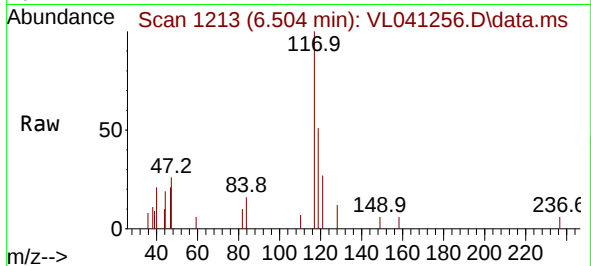
Tgt Ion: 114 Resp: 1997985
Ion Ratio Lower Upper
114 100
63 25.7 21.8 32.6
88 17.9 15.2 22.8





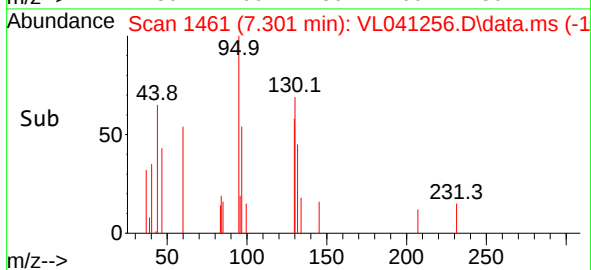
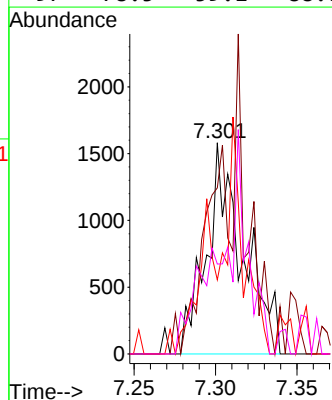
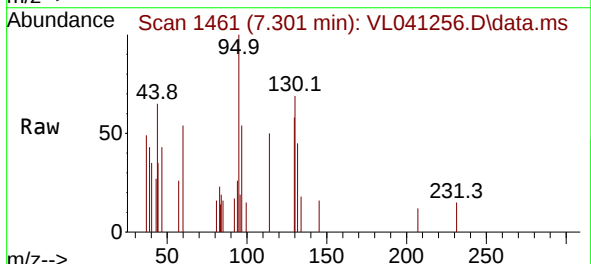
#35
Carbon Tetrachloride
Concen: 0.040 ppbv m
RT: 6.504 min Scan# 1213
Delta R.T. -0.006 min
Lab File: VL041256.D
Acq: 9 May 2024 13:23

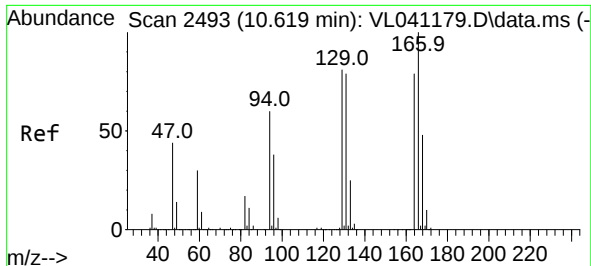
Tgt Ion:117 Resp: 4512
Ion Ratio Lower Upper
117 100
119 50.5 74.3 111.5#
121 26.6 23.8 35.8



#38
Trichloroethene
Concen: 0.039 ppbv m
RT: 7.301 min Scan# 1461
Delta R.T. -0.006 min
Lab File: VL041256.D
Acq: 9 May 2024 13:23

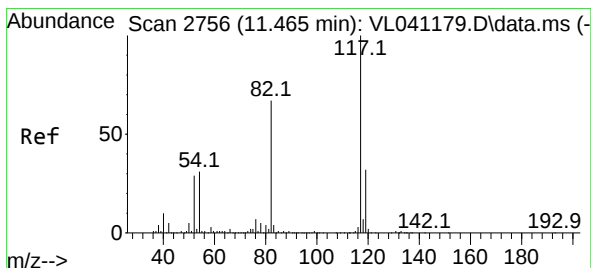
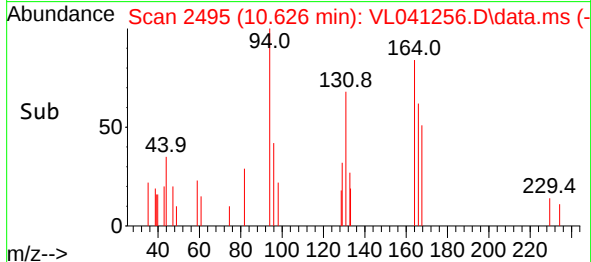
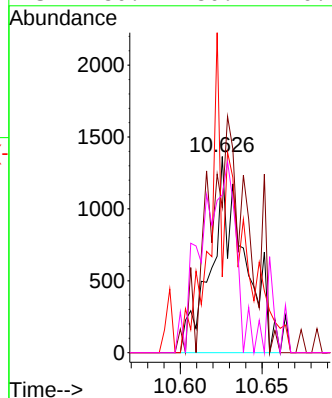
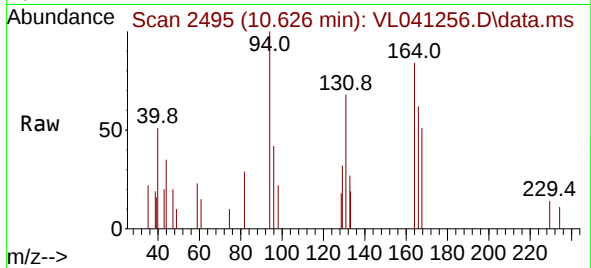
Tgt Ion:130 Resp: 2456
Ion Ratio Lower Upper
130 100
95 145.0 95.0 142.6#
132 64.8 77.0 115.4#
97 78.5 59.1 88.7





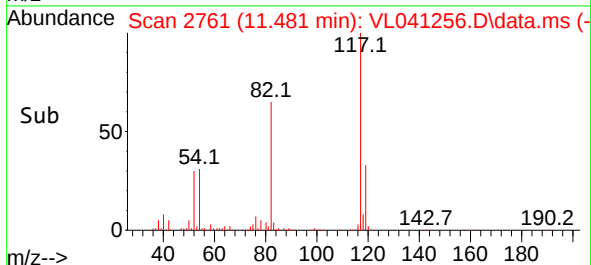
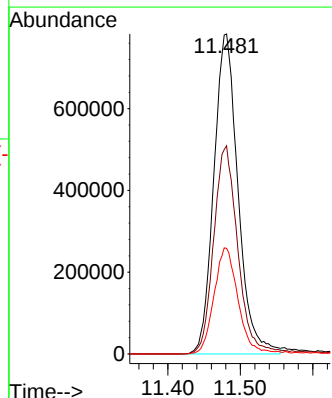
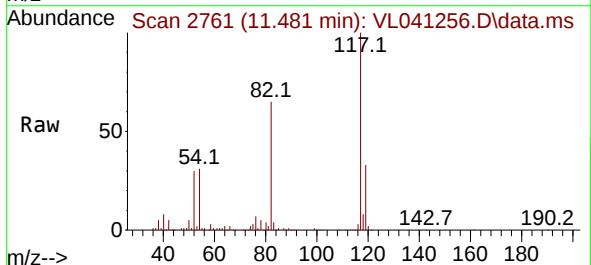
#52
Tetrachloroethene
Concen: 0.032 ppbv m
RT: 10.626 min Scan# 2495
Delta R.T. -0.003 min
Lab File: VL041256.D
Acq: 9 May 2024 13:23

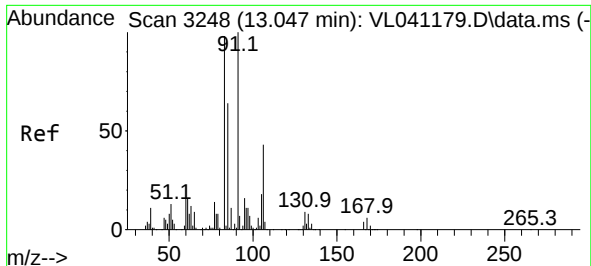
Tgt Ion	Ratio	Lower	Upper
164	100		
166	74.1	101.1	151.7#
129	38.5	81.7	122.5#
131	80.4	80.4	120.6#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.481 min Scan# 2761
Delta R.T. 0.000 min
Lab File: VL041256.D
Acq: 9 May 2024 13:23

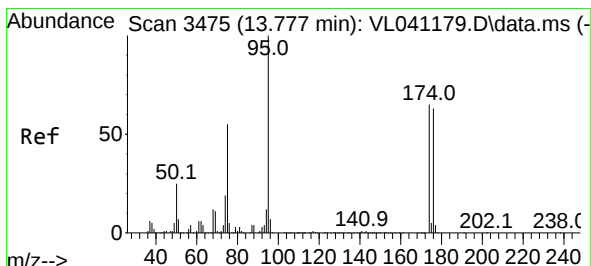
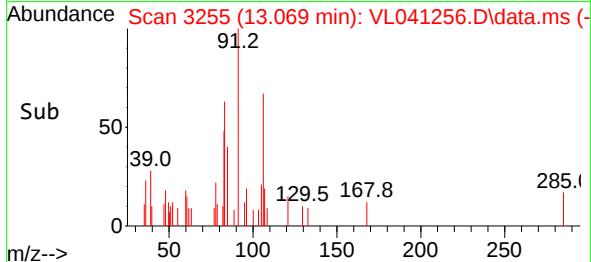
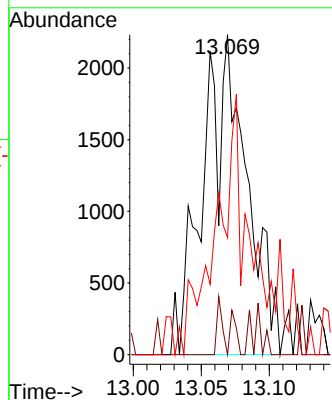
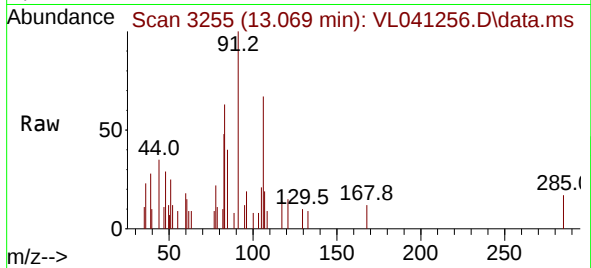
Tgt Ion	Ratio	Lower	Upper
117	100		
82	65.9	53.6	80.4
119	33.2	27.2	40.8





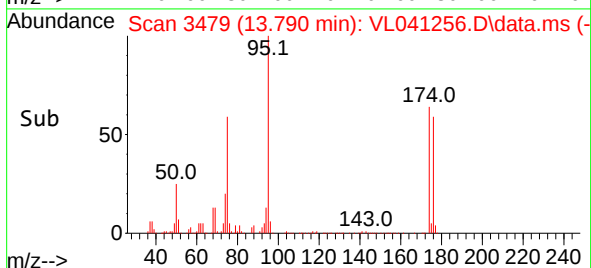
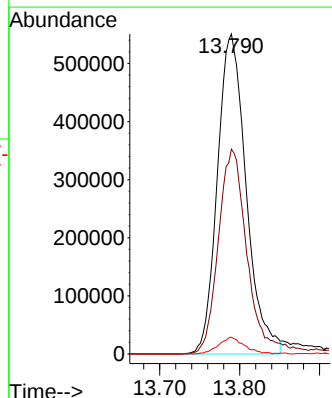
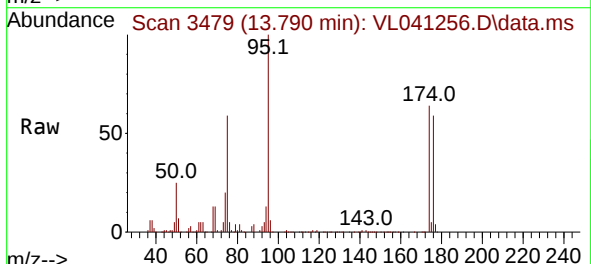
#63
1,1,2,2-Tetrachloroethane
Concen: 0.037 ppbv m
RT: 13.069 min Scan# 3255
Delta R.T. 0.010 min
Lab File: VL041256.D
Acq: 9 May 2024 13:23

Tgt Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.5	13.5#
85	0.0	32.7	98.1#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.030 ppbv
RT: 13.790 min Scan# 3479
Delta R.T. 0.003 min
Lab File: VL041256.D
Acq: 9 May 2024 13:23

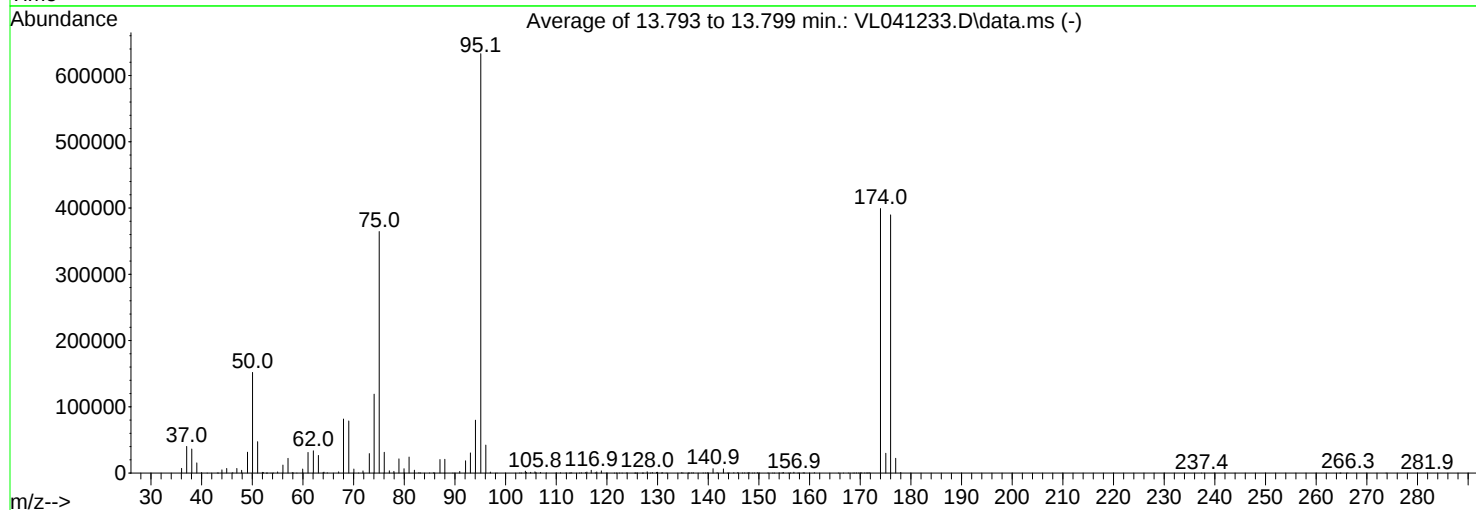
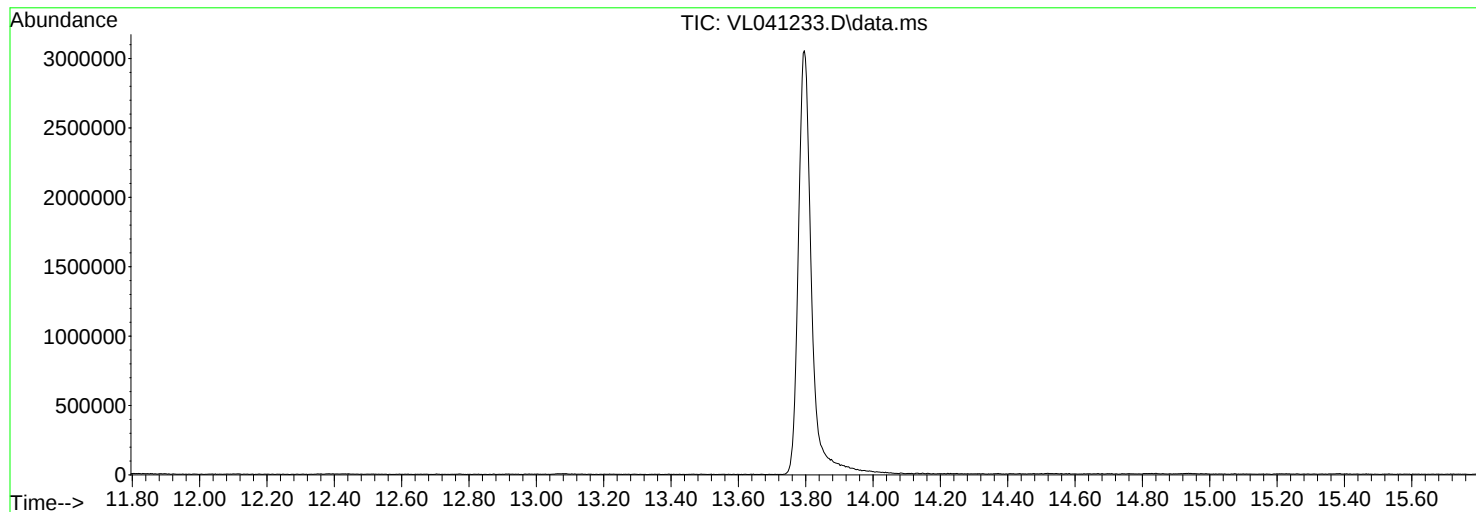
Tgt Ion	Ratio	Lower	Upper
95	100		
174	66.7	53.6	80.4
175	4.8	4.2	6.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050824\
Data File : VL041233.D
Acq On : 8 May 2024 7:56
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Thu May 09 02:43:03 2024



AutoFind: Scans 3480, 3481, 3482; Background Corrected with Scan 3453

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	24.0	151905	PASS
75	95	30	66	57.6	364565	PASS
95	95	100	100	100.0	632896	PASS
96	95	5	9	6.7	42296	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	63.1	399275	PASS
175	174	4	9	7.5	29907	PASS
176	174	93	101	97.6	389696	PASS
177	176	5	9	5.7	22307	PASS

Average of 13.793 to 13.799 min.: VL041233.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	7166	46.95	6963	56.05	12114	64.80	432
37.05	40237	47.90	4201	57.05	22280	67.05	1877
38.05	36331	49.05	31496	57.90	717	68.00	81578
39.05	15396	50.05	151905	58.10	219	69.05	78635
40.00	516	51.05	47395	58.80	72	70.05	6142
41.10	116	52.00	1155	59.95	6127	71.00	175
43.10	228	52.20	831	61.00	31187	71.85	3264
43.30	157	52.80	57	62.05	33600	73.10	29456
44.00	4856	53.70	115	63.05	26584	74.05	119109
44.95	6965	54.20	126	64.00	824	75.05	364565
46.15	580	55.00	1752	64.15	1459	76.05	31381

Average of 13.793 to 13.799 min.: VL041233.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
77.05	3482	87.05	20461	102.80	309	111.95	376
77.95	2598	88.00	20779	103.10	227	112.60	84
78.95	21453	89.60	85	103.90	2890	112.80	342
79.95	6650	90.95	2496	104.10	1120	113.05	544
80.95	24205	92.10	18563	104.95	1187	114.60	131
82.00	4325	93.05	30464	105.80	1967	114.95	489
82.90	676	94.05	79856	106.00	854	115.80	774
83.20	326	95.10	632896	106.90	1014	116.05	1627
85.00	203	96.10	42296	108.05	209	116.90	4264
85.75	474	97.00	1509	110.00	316	117.70	530
86.00	98	98.30	74	110.85	560	118.00	1788

Average of 13.793 to 13.799 min.: VL041233.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
118.90	3362	127.95	2021	136.75	479	145.85	966
120.00	158	128.60	189	137.05	511	146.75	275
121.50	74	128.95	981	139.00	263	147.20	343
121.90	108	129.80	1077	139.50	253	147.70	222
122.50	117	130.00	1289	139.90	486	148.05	1031
123.00	109	130.80	296	140.95	6692	148.70	153
123.95	502	131.00	595	141.75	660	149.10	321
125.50	58	131.70	126	143.00	6332	149.70	576
125.80	107	134.75	628	143.80	118	150.10	139
126.05	158	135.00	311	144.10	369	151.80	285
127.00	57	136.10	52	145.05	619	152.75	170

Average of 13.793 to 13.799 min.: VL041233.D\data.ms

BFB

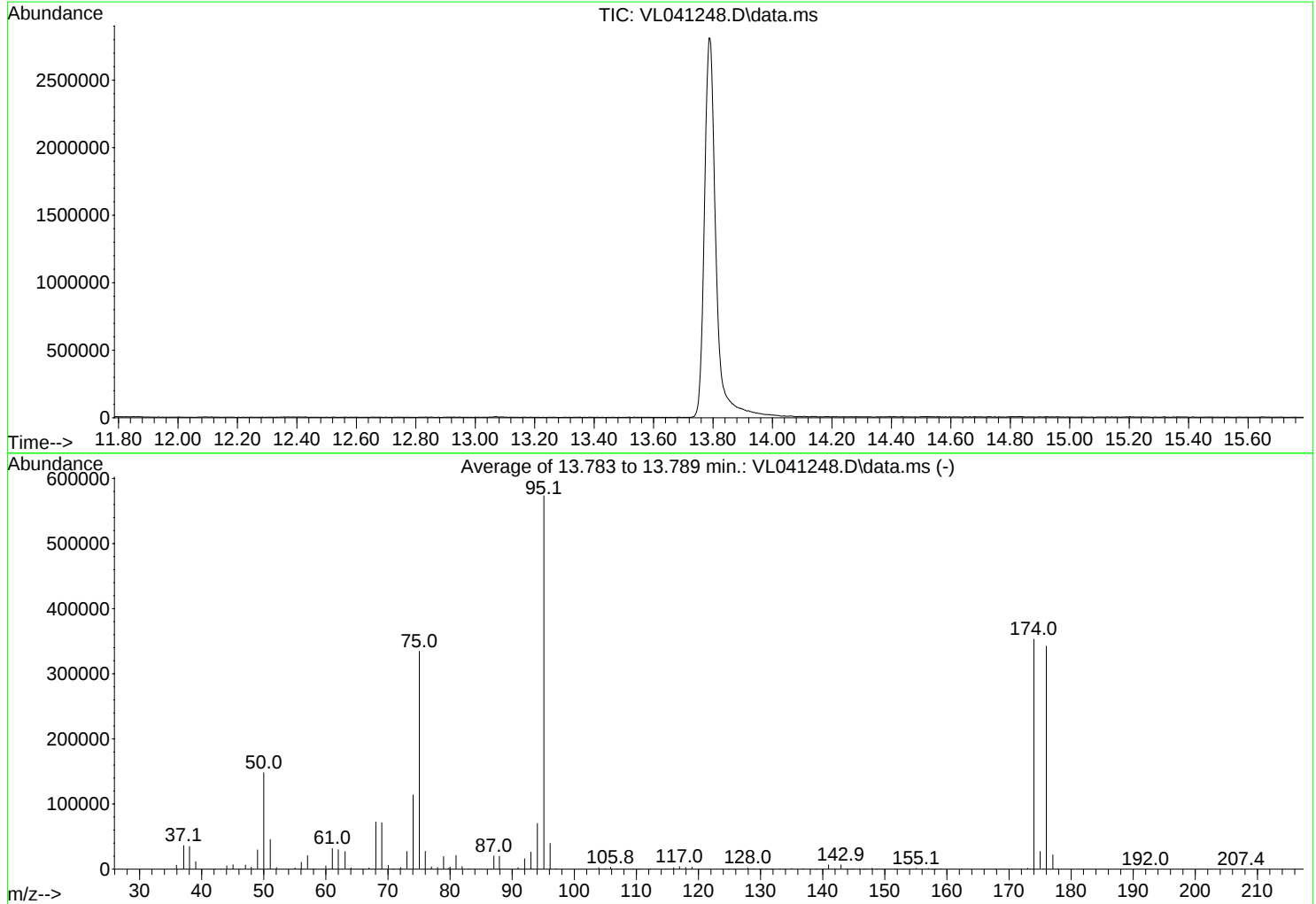
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
153.10	121	160.95	691	171.30	214	273.80	109
154.00	304	165.70	152	171.50	210	281.90	68
154.60	455	166.70	101	171.75	599		
154.85	839	167.65	169	174.00	399275		
155.80	97	168.60	90	175.05	29907		
156.25	270	168.90	79	176.00	389696		
156.90	1302	169.25	295	177.00	22307		
157.70	79	169.70	71	178.00	882		
157.90	237	170.00	163	237.40	69		
158.75	609	170.30	371	264.70	55		
159.00	334	170.90	200	266.25	186		

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050924\
Data File : VL041248.D
Acq On : 9 May 2024 8:07
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Fri May 10 01:23:08 2024



AutoFind: Scans 3477, 3478, 3479; Background Corrected with Scan 3453

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	25.8	148160	PASS
75	95	30	66	58.3	334549	PASS
95	95	100	100	100.0	573589	PASS
96	95	5	9	6.9	39600	PASS
173	174	0.00	2	0.4	1397	PASS
174	95	50	120	61.6	353216	PASS
175	174	4	9	7.7	27243	PASS
176	174	93	101	97.0	342443	PASS
177	176	5	9	6.5	22107	PASS

Average of 13.783 to 13.789 min.: VL041248.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	6016	47.05	6268	60.00	5068	70.80	75
37.10	36245	48.00	3270	61.05	31611	71.05	239
38.05	34907	49.00	29536	62.00	29864	71.80	753
39.05	11591	50.00	148160	63.10	26979	72.05	2418
39.90	233	51.05	45387	64.05	1996	73.05	27144
42.20	159	52.05	2409	64.85	298	74.05	114096
43.10	206	55.05	1714	65.20	148	75.05	334549
44.05	5062	56.05	10650	66.95	2040	76.00	27349
45.05	6844	57.05	20595	68.05	72536	77.00	3825
45.95	336	57.95	635	69.00	71352	78.00	2675
46.20	214	58.30	202	70.05	5597	78.95	19467

Average of 13.783 to 13.789 min.: VL041248.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
79.80	1642	92.00	16086	105.85	2846	114.70	372
80.00	3403	93.00	26075	106.80	509	114.90	386
80.95	21227	94.05	70248	107.00	313	116.00	2228
81.95	4068	95.10	573589	109.40	51	116.95	3947
82.90	324	96.10	39600	109.60	422	117.95	2597
83.10	384	97.00	801	110.00	136	118.95	3116
86.00	527	97.20	290	110.40	66	119.90	68
87.05	20275	102.65	199	110.90	564	121.75	210
87.95	19773	103.95	2325	111.90	350	122.95	152
88.85	265	104.70	184	112.10	102	123.85	237
90.95	2491	105.00	956	112.95	517	124.80	51

Average of 13.783 to 13.789 min.: VL041248.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
125.70	65	131.70	59	140.95	6500	147.95	1313
126.90	141	133.00	59	141.90	727	148.60	75
127.10	152	133.80	71	142.95	6647	149.05	214
127.95	1768	135.00	1138	143.75	412	149.70	143
128.80	717	135.95	255	144.40	163	150.10	299
129.10	190	136.70	200	144.60	142	151.60	67
129.80	444	136.80	316	144.80	295	151.95	271
130.00	797	136.95	742	145.05	616	152.85	181
130.20	730	138.90	75	145.95	846	153.15	202
130.80	608	139.10	149	146.60	110	154.00	132
131.10	362	139.95	490	147.05	209	154.60	334

Average of 13.783 to 13.789 min.: VL041248.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
155.05	1412	167.70	56	177.05	22107		
156.50	167	168.65	256	177.85	590		
157.00	1212	169.20	57	192.00	56		
157.70	105	169.90	359	207.40	65		
158.10	103	170.50	96				
158.90	233	171.05	533				
159.05	763	171.95	932				
160.60	282	173.00	1397				
161.10	340	174.00	353216				
162.30	52	175.00	27243				
166.90	167	176.00	342443				

Prep Standard - Chemical Standard Summary

Order ID : P2403

Test : TO-15

Prepbatch ID :

Sequence ID/Qc Batch ID: vl050824,vl050924,

Standard ID :

AP2513,AP2516,AP2517,AP2518,AP2519,

Chemical ID :

A1117,A1126,A1127,A1128,

Air STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
47	Internal Standard/Surrogate Mix-80 ppbv	AP2513	04/29/2024	05/29/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
05/09/2024								

FROM 2.40000psi of A1126 + 27.60000psi of A1117 = Final Quantity: 30.000 psi

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2396	TO-15 15 PPBV CAL MIX	AP2516	04/29/2024	05/29/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
05/09/2024								

FROM 1455.00000SCCM of A1117 + 45.00000SCCM of A1127 = Final Quantity: 30.000 psi

Air STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2397	TO-15 -2 PPBV CAL.MIX	AP2517	04/29/2024	05/29/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
								05/09/2024

FROM 26.00000psi of A1117 + 4.00000psi of AP2516 = Final Quantity: 30.000 psi

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2668	0.5 PPBV CAL.MIX	AP2518	04/29/2024	05/29/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
								05/09/2024

FROM 29.00000psi of A1117 + 1.00000psi of AP2516 = Final Quantity: 30.000 psi



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipettelID</u>	<u>Supervised By</u>
2396	TO-15 15 PPBV CAL MIX	AP2519	04/29/2024	05/29/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/09/2024
<u>FROM</u> 1455.00000SCCM of A1117 + 45.00000SCCM of A1128 = Final Quantity: 30.000 psi								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
AIR LIQUIDE	365A-49 / AIR, Compressed	90402401186-01	04/01/2026	04/01/2022 / apatel	04/01/2022 / SAM	A1117

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CUSTOMGAS Solutions	TB500009-110 / TO-15 Internal Standard/Surrogate Standard	BC418062	05/30/2024	06/02/2023 / SAM	06/01/2023 / SAM	A1126

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CUSTOMGAS Solutions	TO15-80-6R-07092 / TO-15 Modified (80 comp) in Nitrogen (addition of 2-methylnaphthalene)	122222-001A	05/30/2024	06/02/2023 / SAM	06/02/2023 / SAM	A1127

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CUSTOMGAS Solutions	TO15-80-6R-07092 / TO-15 Modified (80 comp) in Nitrogen (addition of 2-methylnaphthalene)	122222-001B	05/30/2024	06/02/2023 / SAM	06/02/2023 / SAM	A1128

CUSTOMGAS SOLUTIONS



1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

Certificate of Analysis

Customer:

Chem Tech
284 Sheffield Street
Mountainside, NJ 07092

Tel: (908) 789-8900

Cylinder Number: BC418062
Cylinder Size/CGA: 170/180SS
Fill Pressure: 1815 PSIA
Gas Volume: ~170 liters
Date of Mfg: 05/30/2023
Expiration Date: 05/30/2024

Ship To: Chem Tech
284 Sheffield Street
Mountainside, NJ 07092

Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	12222-001	221221-10	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Bromochloromethane	1 ppm	1.014 ppm +/- 0.02 ppm	Gravimetric Master Gas
4-Bromofluorobenzene	1 ppm	1.008 ppm +/- 0.02 ppm	
Chlorobenzene-D5	1 ppm	0.990 ppm +/- 0.02 ppm	
1,4-Difluorobenzene	1 ppm	0.977 ppm +/- 0.02 ppm	
Nitrogen	balance	balance	

NOTES: Blend Tolerance: +/- 10 %

Analytical Tolerance: +/- 5 %

Traceability: NIST by weight set. NIST Traceability No MT001810.
Internal Standards by analysis

Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.
Required wait time between analyses of >7 days.

Caution: Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

QA Signature: 

Signature: 

Date: 05/20/2023

*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

CUSTOMGAS

SOLUTIONS



1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

Certificate of Analysis

Customer:

ChemTech
284 Sheffield Street
Mountianside, NJ 07092

Cylinder Number: BC993219
Cylinder Size/CGA: 170/180
Fill Pressure: 1815 PSIA
Gas Volume: 110 liters
Date of Mfg: 05/30/2023
Expiration Date: 05/30/2024
Lot Number: 122222-001A

Ship To : Chemtech
284 Sheffield Street
Mountianside, NJ 07092

Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	122222-001	221221-10	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Acetone	500 ppb	512 ppb +/- 50 ppb	Gravimetric Master Gas
Acetonitrile	500 ppb	529 ppb +/- 50 ppb	
Acrolein	500 ppb	539 ppb +/- 50 ppb	
Acrylonitrile	500 ppb	534 ppb +/- 50 ppb	
Allyl chloride	500 ppb	503 ppb +/- 50 ppb	
Benzene	500 ppb	479 ppb +/- 50 ppb	
Benzyl Chloride	500 ppb	484 ppb +/- 50 ppb	
Bromodichloromethane	500 ppb	504 ppb +/- 50 ppb	
Bromoform	500 ppb	490 ppb +/- 50 ppb	
1,3-Butadiene	500 ppb	499 ppb +/- 50 ppb	
tert-Butyl alcohol	500 ppb	527 ppb +/- 50 ppb	
n-Butyl benzene	500 ppb	524 ppb +/- 50 ppb	
sec-Butyl benzene	500 ppb	524 ppb +/- 50 ppb	
tert-Butyl benzene	500 ppb	524 ppb +/- 50 ppb	
Carbon disulfide	500 ppb	480 ppb +/- 50 ppb	
Carbon tetrachloride	500 ppb	501 ppb +/- 50 ppb	
Chlorobenzene	500 ppb	486 ppb +/- 50 ppb	
Chlorodibromomethane	500 ppb	483 ppb +/- 50 ppb	
Chloroform	500 ppb	487 ppb +/- 50 ppb	
2-Chlorotoluene	500 ppb	527 ppb +/- 50 ppb	
Cyclohexane	500 ppb	478 ppb +/- 50 ppb	
1,2-Dibromoethane	500 ppb	486 ppb +/- 50 ppb	
1,2-Dichlorobenzene	500 ppb	504 ppb +/- 50 ppb	
1,3-Dichlorobenzene	500 ppb	484 ppb +/- 50 ppb	
1,4-Dichlorobenzene	500 ppb	485 ppb +/- 50 ppb	
Dichlorodifluoromethane (R12)	500 ppb	503 ppb +/- 50 ppb	

1,1-Dichloroethane	500 ppb	487 ppb +/- 50 ppb	
1,2-Dichloroethane	500 ppb	492 ppb +/- 50 ppb	
1,1-Dichloroethylene	500 ppb	488 ppb +/- 50 ppb	
cis 1,2-Dichloroethylene	500 ppb	483 ppb +/- 50 ppb	
trans 1,2-Dichloroethylene	500 ppb	483 ppb +/- 50 ppb	
1,2-Dichloropropane	500 ppb	485 ppb +/- 50 ppb	
cis 1,3-Dichloropropylene	500 ppb	511 ppb +/- 50 ppb	
trans 1,3-Dichloropropylene	500 ppb	461 ppb +/- 50 ppb	
1,2-Dichlorotetrafluoroethane	500 ppb	500 ppb +/- 50 ppb	
1,4-Dioxane	500 ppb	479 ppb +/- 50 ppb	
Ethyl acetate	500 ppb	481 ppb +/- 50 ppb	
Ethyl Alcohol	500 ppb	549 ppb +/- 50 ppb	
Ethyl benzene	500 ppb	492 ppb +/- 50 ppb	
Ethyl Chloride	500 ppb	501 ppb +/- 50 ppb	
4-Ethyltoluene	500 ppb	481 ppb +/- 50 ppb	
n-Heptane	500 ppb	482 ppb +/- 50 ppb	
Hexachloro-1,3-butadiene	500 ppb	484 ppb +/- 50 ppb	
2-Hexanone	500 ppb	485 ppb +/- 50 ppb	
n-Hexane	500 ppb	480 ppb +/- 50 ppb	
Isopropyl alcohol	500 ppb	506 ppb +/- 50 ppb	
Isopropyl benzene	500 ppb	522 ppb +/- 50 ppb	
p-Isopropyl toluene	500 ppb	529 ppb +/- 50 ppb	
Methyl Bromide	500 ppb	500 ppb +/- 50 ppb	
Methyl Chloride	500 ppb	503 ppb +/- 50 ppb	
Methyl ethyl ketone	500 ppb	491 ppb +/- 50 ppb	
Methyl isobutyl ketone	500 ppb	488 ppb +/- 50 ppb	
Methyl methacrylate	500 ppb	527 ppb +/- 50 ppb	
Methyl tertiary butyl ether	500 ppb	478 ppb +/- 50 ppb	
Methylene chloride	500 ppb	493 ppb +/- 50 ppb	
Naphthalene	500 ppb	537 ppb +/- 50 ppb	
n-Propylbenzene	500 ppb	508 ppb +/- 50 ppb	
Propylene	500 ppb	503 ppb +/- 50 ppb	
Styrene	500 ppb	481 ppb +/- 50 ppb	
1,1,1,2-Tetrachloroethane	500 ppb	529 ppb +/- 50 ppb	
1,1,2,2-Tetrachloroethane	500 ppb	479 ppb +/- 50 ppb	
Tetrachloroethylene	500 ppb	482 ppb +/- 50 ppb	
Tetrahydrofuran	500 ppb	530 ppb +/- 50 ppb	
Toluene	500 ppb	486 ppb +/- 50 ppb	
1,2,4-Trichlorobenzene	500 ppb	489 ppb +/- 50 ppb	
1,1,1-Trichloroethane	500 ppb	489 ppb +/- 50 ppb	
1,1,2-Trichloroethane	500 ppb	489 ppb +/- 50 ppb	
Trichloroethylene	500 ppb	483 ppb +/- 50 ppb	
Trichlorofluoromethane	500 ppb	503 ppb +/- 50 ppb	
1,1,2-Trichlorotrifluoroethane	500 ppb	490 ppb +/- 50 ppb	
1,2,4-Trimethylbenzene	500 ppb	489 ppb +/- 50 ppb	
1,3,5-Trimethylbenzene	500 ppb	493 ppb +/- 50 ppb	
2,2,4-Trimethylpentane	500 ppb	484 ppb +/- 50 ppb	
Vinyl acetate	500 ppb	489 ppb +/- 50 ppb	
Vinyl bromide	500 ppb	500 ppb +/- 50 ppb	
Vinyl chloride	500 ppb	502 ppb +/- 50 ppb	
m-Xylene	500 ppb	487 ppb +/- 50 ppb	
o-Xylene	500 ppb	475 ppb +/- 50 ppb	
p-Xylene	500 ppb	481 ppb +/- 50 ppb	
2-Methyl Naphthalene	500 ppb	498 ppb +/- 50 ppb	
R-22	500 ppb	590 ppb +/- 50 ppb	
Nitrogen	balance	balance	

NOTES: **Blend Tolerance:** +/- 20 %
Analytical Tolerance: +/- 10 %
Traceability: NIST by weight set. NIST Traceability No MT001810.
Internal Standards by analysis
Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.
Required wait time between analyses of >7 days.
Caution: Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

QA Signature: 

Signature: 

Date: 05/30/2023

*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

CUSTOMGAS SOLUTIONS



1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

Certificate of Analysis

Customer:

ChemTech
284 Sheffield Street
Mountianside, NJ 07092

Cylinder Number: BC993228
Cylinder Size/CGA: 170/180
Fill Pressure: 1815 PSIA
Gas Volume: 110 liters
Date of Mfg: 05/30/2023
Expiration Date: 05/30/2024
Lot Number: 122222-001B

Ship To : Chemtech
284 Sheffield Street
Mountainside, NJ 07092

Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	122222-001	221221-10	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Acetone	500 ppb	512 ppb +/- 50 ppb	Gravimetric Master Gas
Acetonitrile	500 ppb	513 ppb +/- 50 ppb	
Acrolein	500 ppb	522 ppb +/- 50 ppb	
Acrylonitrile	500 ppb	517 ppb +/- 50 ppb	
Allyl chloride	500 ppb	503 ppb +/- 50 ppb	
Benzene	500 ppb	479 ppb +/- 50 ppb	
Benzyl Chloride	500 ppb	484 ppb +/- 50 ppb	
Bromodichloromethane	500 ppb	504 ppb +/- 50 ppb	
Bromoform	500 ppb	490 ppb +/- 50 ppb	
1,3-Butadiene	500 ppb	499 ppb +/- 50 ppb	
tert-Butyl alcohol	500 ppb	510 ppb +/- 50 ppb	
n-Butyl benzene	500 ppb	508 ppb +/- 50 ppb	
sec-Butyl benzene	500 ppb	508 ppb +/- 50 ppb	
tert-Butyl benzene	500 ppb	508 ppb +/- 50 ppb	
Carbon disulfide	500 ppb	480 ppb +/- 50 ppb	
Carbon tetrachloride	500 ppb	501 ppb +/- 50 ppb	
Chlorobenzene	500 ppb	486 ppb +/- 50 ppb	
Chlorodibromomethane	500 ppb	483 ppb +/- 50 ppb	
Chloroform	500 ppb	487 ppb +/- 50 ppb	
2-Chlorotoluene	500 ppb	510 ppb +/- 50 ppb	
Cyclohexane	500 ppb	478 ppb +/- 50 ppb	
1,2-Dibromoethane	500 ppb	486 ppb +/- 50 ppb	
1,2-Dichlorobenzene	500 ppb	504 ppb +/- 50 ppb	
1,3-Dichlorobenzene	500 ppb	484 ppb +/- 50 ppb	
1,4-Dichlorobenzene	500 ppb	485 ppb +/- 50 ppb	
Dichlorodifluoromethane (R12)	500 ppb	503 ppb +/- 50 ppb	

1,1-Dichloroethane	500 ppb	487 ppb +/- 50 ppb	
1,2-Dichloroethane	500 ppb	492 ppb +/- 50 ppb	
1,1-Dichloroethylene	500 ppb	488 ppb +/- 50 ppb	
cis 1,2-Dichloroethylene	500 ppb	483 ppb +/- 50 ppb	
trans 1,2-Dichloroethylene	500 ppb	483 ppb +/- 50 ppb	
1,2-Dichloropropane	500 ppb	485 ppb +/- 50 ppb	
cis 1,3-Dichloropropylene	500 ppb	511 ppb +/- 50 ppb	
trans 1,3-Dichloropropylene	500 ppb	461 ppb +/- 50 ppb	
1,2-Dichlorotetrafluoroethane	500 ppb	500 ppb +/- 50 ppb	
1,4-Dioxane	500 ppb	479 ppb +/- 50 ppb	
Ethyl acetate	500 ppb	481 ppb +/- 50 ppb	
Ethyl Alcohol	500 ppb	532 ppb +/- 50 ppb	
Ethyl benzene	500 ppb	492 ppb +/- 50 ppb	
Ethyl Chloride	500 ppb	501 ppb +/- 50 ppb	
4-Ethyltoluene	500 ppb	481 ppb +/- 50 ppb	
n-Heptane	500 ppb	482 ppb +/- 50 ppb	
Hexachloro-1,3-butadiene	500 ppb	484 ppb +/- 50 ppb	
2-Hexanone	500 ppb	485 ppb +/- 50 ppb	
n-Hexane	500 ppb	480 ppb +/- 50 ppb	
Isopropyl alcohol	500 ppb	506 ppb +/- 50 ppb	
Isopropyl benzene	500 ppb	505 ppb +/- 50 ppb	
p-Isopropyl toluene	500 ppb	513 ppb +/- 50 ppb	
Methyl Bromide	500 ppb	500 ppb +/- 50 ppb	
Methyl Chloride	500 ppb	503 ppb +/- 50 ppb	
Methyl ethyl ketone	500 ppb	491 ppb +/- 50 ppb	
Methyl isobutyl ketone	500 ppb	488 ppb +/- 50 ppb	
Methyl methacrylate	500 ppb	510 ppb +/- 50 ppb	
Methyl tertiary butyl ether	500 ppb	478 ppb +/- 50 ppb	
Methylene chloride	500 ppb	493 ppb +/- 50 ppb	
Naphthalene	500 ppb	520 ppb +/- 50 ppb	
n-Propylbenzene	500 ppb	508 ppb +/- 50 ppb	
Propylene	500 ppb	503 ppb +/- 50 ppb	
Styrene	500 ppb	481 ppb +/- 50 ppb	
1,1,1,2-Tetrachloroethane	500 ppb	513 ppb +/- 50 ppb	
1,1,2,2-Tetrachloroethane	500 ppb	479 ppb +/- 50 ppb	
Tetrachloroethylene	500 ppb	482 ppb +/- 50 ppb	
Tetrahydrofuran	500 ppb	530 ppb +/- 50 ppb	
Toluene	500 ppb	486 ppb +/- 50 ppb	
1,2,4-Trichlorobenzene	500 ppb	489 ppb +/- 50 ppb	
1,1,1-Trichloroethane	500 ppb	489 ppb +/- 50 ppb	
1,1,2-Trichloroethane	500 ppb	489 ppb +/- 50 ppb	
Trichloroethylene	500 ppb	483 ppb +/- 50 ppb	
Trichlorofluoromethane	500 ppb	503 ppb +/- 50 ppb	
1,1,2-Trichlorotrifluoroethane	500 ppb	490 ppb +/- 50 ppb	
1,2,4-Trimethylbenzene	500 ppb	489 ppb +/- 50 ppb	
1,3,5-Trimethylbenzene	500 ppb	493 ppb +/- 50 ppb	
2,2,4-Trimethylpentane	500 ppb	484 ppb +/- 50 ppb	
Vinyl acetate	500 ppb	489 ppb +/- 50 ppb	
Vinyl bromide	500 ppb	500 ppb +/- 50 ppb	
Vinyl chloride	500 ppb	502 ppb +/- 50 ppb	
m-Xylene	500 ppb	487 ppb +/- 50 ppb	
o-Xylene	500 ppb	475 ppb +/- 50 ppb	
p-Xylene	500 ppb	481 ppb +/- 50 ppb	
2-Methyl Naphthalene	500 ppb	510 ppb +/- 50 ppb	
R-22	500 ppb	507 ppb +/- 50 ppb	
Nitrogen	balance	balance	

NOTES: **Blend Tolerance:** +/- 20 %
Analytical Tolerance: +/- 10 %
Traceability: NIST by weight set. NIST Traceability No MT001810.
Internal Standards by analysis
Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.
Required wait time between analyses of >7 days.
Caution: Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

QA Signature:



Signature:

Date: 05/30/2023



*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

Manual Integration Report

Sequence:	vl050824	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL041234.D	Benzyl Chloride	SAM	5/9/2024 10:42:14 AM	MMDadoda	5/9/2024 3:26:29 PM	Peak Integrated by Software incorrectly
VSTDCCC010	VL041234.D	Chlorobenzene-d5	SAM	5/9/2024 10:42:14 AM	MMDadoda	5/9/2024 3:26:29 PM	Peak Integrated by Software incorrectly
VSTDCCC010	VL041234.D	m/p-Xylene	SAM	5/9/2024 10:42:14 AM	MMDadoda	5/9/2024 3:26:29 PM	Peak Integrated by Software incorrectly
VSTDCCC010	VL041234.D	Naphthalene,2-methyl-	SAM	5/9/2024 10:42:14 AM	MMDadoda	5/9/2024 3:26:29 PM	Peak Integrated by Software incorrectly
VSTDCCC010	VL041247.D	Benzyl Chloride	SAM	5/9/2024 10:43:25 AM	MMDadoda	5/9/2024 3:26:53 PM	Peak Integrated by Software incorrectly
VSTDCCC010	VL041247.D	m/p-Xylene	SAM	5/9/2024 10:43:25 AM	MMDadoda	5/9/2024 3:26:53 PM	Peak Integrated by Software incorrectly

Manual Integration Report

Sequence:	vl050924	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL041249.D	Benzyl Chloride	SAM	5/10/2024 11:09:44 AM	MMDadoda	5/10/2024 12:02:39 PM	Peak Integrated by Software incorrectly
VSTDCCC010	VL041249.D	Chlorobenzene-d5	SAM	5/10/2024 11:09:44 AM	MMDadoda	5/10/2024 12:02:39 PM	Peak Integrated by Software incorrectly
VSTDCCC010	VL041249.D	Ethanol	SAM	5/10/2024 11:09:44 AM	MMDadoda	5/10/2024 12:02:39 PM	Peak Integrated by Software incorrectly
VSTDCCC010	VL041249.D	m/p-Xylene	SAM	5/10/2024 11:09:44 AM	MMDadoda	5/10/2024 12:02:39 PM	Peak Integrated by Software incorrectly
VSTDCCC010	VL041257.D	Benzyl Chloride	SAM	5/10/2024 11:10:02 AM	MMDadoda	5/10/2024 12:02:54 PM	Peak Integrated by Software incorrectly
VSTDCCC010	VL041257.D	m/p-Xylene	SAM	5/10/2024 11:10:02 AM	MMDadoda	5/10/2024 12:02:54 PM	Peak Integrated by Software incorrectly

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL050824

Review By	Semsettin Yesilyurt	Review On	5/9/2024 3:12:41 PM
Supervise By	Maresh Dadoda	Supervise On	5/9/2024 3:26:26 PM
SubDirectory	VL050824	HP Acquire Method	AIR-TO15
		HP Processing Method	VL042924AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2513		
Initial Calibration Stds	AP2516,AP2517,AP2518		
CCC	AP2516		
Internal Standard/PEM	AP2513		
ICV/I.BLK	AP2519		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	Sampleld	Data File Name	Date-Time	Operator	Status
1	BFB	VL041233.D	8 May 2024 7:56	SY/MD	Ok
2	VSTDCCC010	VL041234.D	8 May 2024 8:34	SY/MD	Ok,M
3	VL0508ABL01	VL041235.D	8 May 2024 9:24	SY/MD	Ok
4	VL0508ABS01	VL041236.D	8 May 2024 10:02	SY/MD	Ok,M
5	QC050624 CAN 10445	VL041237.D	8 May 2024 10:40	SY/MD	Ok
6	P2403-14 LOQ 0.5	VL041238.D	8 May 2024 11:18	SY/MD	Ok,M
7	P2403-13 LOD 0.45	VL041239.D	8 May 2024 11:56	SY/MD	Ok,M
8	P2403-13 LOD 0.40	VL041240.D	8 May 2024 12:35	SY/MD	Ok,M
9	P2403-13 LOD 0.1	VL041241.D	8 May 2024 13:13	SY/MD	Ok,M
10	P2403-13 LOD 0.03	VL041242.D	8 May 2024 13:51	SY/MD	Ok,M
11	P2403-14 LOQ 0.03	VL041243.D	8 May 2024 14:30	SY/MD	Ok,M
12	P2334-05	VL041244.D	8 May 2024 15:11	SY/MD	Dilution
13	P2334-05DL	VL041245.D	8 May 2024 15:51	SY/MD	Ok,M
14	P2334-05DL DUP	VL041246.D	8 May 2024 16:31	SY/MD	Ok,M
15	VSTDCCC010	VL041247.D	8 May 2024 17:10	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL050924

Review By	Semsettin Yesilyurt	Review On	5/10/2024 11:27:20 AM		
Supervise By	Mahesh Dadoda	Supervise On	5/10/2024 12:03:01 PM		
SubDirectory	VL050924	HP Acquire Method	AIR-TO15	HP Processing Method	VL042924AIR.M
STD. NAME	STD REF.#				
Tune/Reschk	AP2513				
Initial Calibration Stds	AP2516,AP2517,AP2518				
CCC	AP2516				
Internal Standard/PEM	AP2513				
ICV/I.BLK	AP2519				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041248.D	9 May 2024 8:07	SY/MD	Ok
2	VSTDCCC010	VL041249.D	9 May 2024 8:46	SY/MD	Ok,M
3	VL0509ABL01	VL041250.D	9 May 2024 9:34	SY/MD	Ok
4	VL0509ABS01	VL041251.D	9 May 2024 10:12	SY/MD	Ok,M
5	VIBLK	VL041252.D	9 May 2024 10:51	SY/MD	Ok
6	P2403-15 MDL 0.45	VL041253.D	9 May 2024 11:28	SY/MD	Ok,M
7	P2403-15 MDL 0.40	VL041254.D	9 May 2024 12:07	SY/MD	Ok,M
8	P2403-15 MDL 0.1	VL041255.D	9 May 2024 12:45	SY/MD	Ok,M
9	P2403-15 MDL 0.03	VL041256.D	9 May 2024 13:23	SY/MD	Ok,M
10	VSTDCCC010	VL041257.D	9 May 2024 14:29	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL050824

Review By	Semsettin Yesilyurt	Review On	5/9/2024 3:12:41 PM		
Supervise By	Mahesh Dadoda	Supervise On	5/9/2024 3:26:26 PM		
SubDirectory	VL050824	HP Acquire Method	AIR-TO15	HP Processing Method	VL042924AIR.M
STD. NAME	STD REF.#				
Tune/Reschk	AP2513				
Initial Calibration Stds	AP2516,AP2517,AP2518				
CCC	AP2516				
Internal Standard/PEM	AP2513				
ICV/I.BLK	AP2519				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL041233.D	8 May 2024 7:56		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL041234.D	8 May 2024 8:34		SY/MD	Ok,M
3	VL0508ABL01	VL0508ABL01	VL041235.D	8 May 2024 9:24		SY/MD	Ok
4	VL0508ABS01	VL0508ABS01	VL041236.D	8 May 2024 10:02		SY/MD	Ok,M
5	QC050624 CAN 10445	QC050624 CAN 10445	VL041237.D	8 May 2024 10:40		SY/MD	Ok
6	P2403-14 LOQ 0.5	LOQ-AIR-02-QT2-2024	VL041238.D	8 May 2024 11:18		SY/MD	Ok,M
7	P2403-13 LOD 0.45	LOD-MDL-AIR-01-QT2	VL041239.D	8 May 2024 11:56		SY/MD	Ok,M
8	P2403-13 LOD 0.40	LOD-MDL-AIR-01-QT2	VL041240.D	8 May 2024 12:35		SY/MD	Ok,M
9	P2403-13 LOD 0.1	LOD-MDL-AIR-01-QT2	VL041241.D	8 May 2024 13:13		SY/MD	Ok,M
10	P2403-13 LOD 0.03	LOD-MDL-AIR-01-QT2	VL041242.D	8 May 2024 13:51		SY/MD	Ok,M
11	P2403-14 LOQ 0.03	LOQ-AIR-02-QT2-2024	VL041243.D	8 May 2024 14:30		SY/MD	Ok,M
12	P2334-05	BA-03-SS02-20240425	VL041244.D	8 May 2024 15:11	Need 4X	SY/MD	Dilution
13	P2334-05DL	BA-03-SS02-20240425	VL041245.D	8 May 2024 15:51		SY/MD	Ok,M
14	P2334-05DL DUP	BA-03-SS02-20240425	VL041246.D	8 May 2024 16:31	DUP	SY/MD	Ok,M
15	VSTDCCC010	VSTDCCC010EC	VL041247.D	8 May 2024 17:10		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL050924

Review By	Semsettin Yesilyurt	Review On	5/10/2024 11:27:20 AM		
Supervise By	Mahesh Dadoda	Supervise On	5/10/2024 12:03:01 PM		
SubDirectory	VL050924	HP Acquire Method	AIR-TO15	HP Processing Method	VL042924AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2513
Initial Calibration Stds	AP2516,AP2517,AP2518
CCC	AP2516
Internal Standard/PEM	AP2513
ICV/I.BLK	AP2519
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL041248.D	9 May 2024 8:07		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL041249.D	9 May 2024 8:46		SY/MD	Ok,M
3	VL0509ABL01	VL0509ABL01	VL041250.D	9 May 2024 9:34		SY/MD	Ok
4	VL0509ABS01	VL0509ABS01	VL041251.D	9 May 2024 10:12		SY/MD	Ok,M
5	VIBLK	VIBLK	VL041252.D	9 May 2024 10:51		SY/MD	Ok
6	P2403-15 MDL 0.45	MDL-AIR-03-QT2-2024	VL041253.D	9 May 2024 11:28		SY/MD	Ok,M
7	P2403-15 MDL 0.40	MDL-AIR-03-QT2-2024	VL041254.D	9 May 2024 12:07		SY/MD	Ok,M
8	P2403-15 MDL 0.1	MDL-AIR-03-QT2-2024	VL041255.D	9 May 2024 12:45		SY/MD	Ok,M
9	P2403-15 MDL 0.03	MDL-AIR-03-QT2-2024	VL041256.D	9 May 2024 13:23		SY/MD	Ok,M
10	VSTDCCC010	VSTDCCC010EC	VL041257.D	9 May 2024 14:29		SY/MD	Ok,M

M : Manual Integration