

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
 Data File : VL041842.D
 Acq On : 07 Jan 2025 11:22
 Operator : SY/MD
 Sample : VSTDIC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jan 08 00:57:38 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M

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

QLast Update : Tue Jan 07 13:48:55 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.803	49	88722	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	202136	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	168288	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.396	95	139535	9.681	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.505	85	1605	0.110	ppbv	95
3) Chlorodifluoromethane	1.482	51	1724	0.124	ppbv	94
4) Chloromethane	1.538	50	871	0.145	ppbv	97
5) Vinyl Chloride	1.586	62	711	0.118	ppbv #	84
6) Bromomethane	1.677	94	383	0.148	ppbv	91
7) Chloroethane	1.712	64	238	0.102	ppbv	92
8) Dichlorotetrafluoroethane	1.560	85	1596	0.127	ppbv	97
9) Propene	1.489	41	780	0.161	ppbv	92
11) Trichlorofluoromethane	1.887	101	1776	0.120	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.149	101	1339	0.121	ppbv	99
13) Ethanol	1.728	45	176	0.319	ppbv #	35
14) Bromoethene	1.790	108	445	0.123	ppbv #	81
15) Acetone	1.845	43	3415	0.209	ppbv	95
16) 1,3-Butadiene	1.618	39	1114	0.174	ppbv #	79
17) tert-Butyl alcohol	2.055	59	1678	0.119	ppbv	97
18) 1,1-Dichloroethene	2.039	96	520	0.113	ppbv #	60
19) Isopropyl Alcohol	1.897	45	1751	0.228	ppbv #	93
20) Methylene Chloride	2.068	84	1234	0.264	ppbv #	67
21) Allyl Chloride	2.104	41	1130	0.134	ppbv #	66
22) trans-1,2-Dichloroethene	2.353	96	575	0.111	ppbv	84
23) Vinyl Acetate	2.473	43	852	0.163	ppbv #	54
24) 1,1-Dichloroethane	2.421	63	1310	0.116	ppbv #	91
25) Ethyl Acetate	2.858	43	2328	0.085	ppbv #	92
26) Hexane	2.842	57	808	0.085	ppbv #	76
27) Carbon Disulfide	2.162	76	851	0.094	ppbv #	1
28) Methyl tert-Butyl Ether	2.457	73	813	0.113	ppbv #	87
29) Chloroform	2.865	83	2136	0.121	ppbv	97
30) Cyclohexane	3.881	84	364	0.050	ppbv #	19
31) cis-1,2-Dichloroethene	2.735	61	571	0.058	ppbv #	84
32) 1,1,1-Trichloroethane	3.382	97	1574	0.098	ppbv #	21
34) 2-Butanone	2.576	43	1791	0.112	ppbv	96
35) Carbon Tetrachloride	3.784	117	1607	0.105	ppbv #	71
36) Benzene	3.680	78	985	0.051	ppbv #	92
37) 1,2-Dichloroethane	3.240	62	1302	0.103	ppbv #	82
38) Trichloroethene	4.580	130	408	0.054	ppbv #	80
39) 1,2-Dichloropropane	3.981	63	57040	7.636	ppbv #	16
41) Tetrahydrofuran	3.088	42	595	0.079	ppbv	96
42) Bromodichloromethane	4.515	83	1280	0.086	ppbv #	57
44) 2,2,4-Trimethylpentane	4.667	57	1703	0.054	ppbv #	42
45) t-1,3-Dichloropropene	6.451	75	189	0.032	ppbv	95
47) 1,1,2-Trichloroethane	6.616	97	393	0.050	ppbv #	81
48) Dibromochloromethane	7.412	129	551	0.055	ppbv #	11
49) Bromoform	9.506	173	359	0.045	ppbv #	34

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
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 Sample : VSTDIC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jan 08 00:57:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 07 13:48:55 2025
 Response via : Initial Calibration

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

54) 1,2-Dibromoethane	7.681	107	565	0.058	ppbv	94
57) Chlorobenzene	8.943	112	1918	0.109	ppbv #	88
62) Isopropylbenzene	10.555	105	2153	0.070	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.985	83	1698	0.098	ppbv #	94
64) n-propylbenzene	11.005	120	352	0.044	ppbv #	33
65) tert-Butylbenzene	11.545	119	1397	0.050	ppbv	91
66) Benzyl Chloride	11.636	91	132	0.057	ppbv #	69
67) sec-Butylbenzene	11.781	105	1966	0.048	ppbv	94
69) p-Isopropyltoluene	11.937	119	1453	0.045	ppbv	98
70) n-Butylbenzene	12.296	91	1597	0.050	ppbv	93
71) 2-Chlorotoluene	10.917	91	1600	0.071	ppbv	94
72) 4-Ethyltoluene	11.141	105	1042	0.044	ppbv #	85
73) 1,3,5-Trimethylbenzene	11.215	105	1270	0.061	ppbv #	78
74) 1,2,4-Trimethylbenzene	11.552	105	1059	0.044	ppbv #	86
75) 1,3-Dichlorobenzene	11.623	146	1045	0.065	ppbv	87
76) 1,4-Dichlorobenzene	11.691	146	1001	0.064	ppbv	92
77) 1,2-Dichlorobenzene	11.963	146	1136	0.067	ppbv	92
78) Hexachloro-1,3-Butadiene	13.901	225	1230	0.103	ppbv	95
79) Naphthalene	13.529	128	1063	0.060	ppbv #	86
80) Naphthalene,2-methyl-	14.478	142	408	0.062	ppbv	94
81) 1,2,4-Trichlorobenzene	13.455	180	662	0.067	ppbv #	81

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

Instrument :

MSVOA L

ClientSampleId :

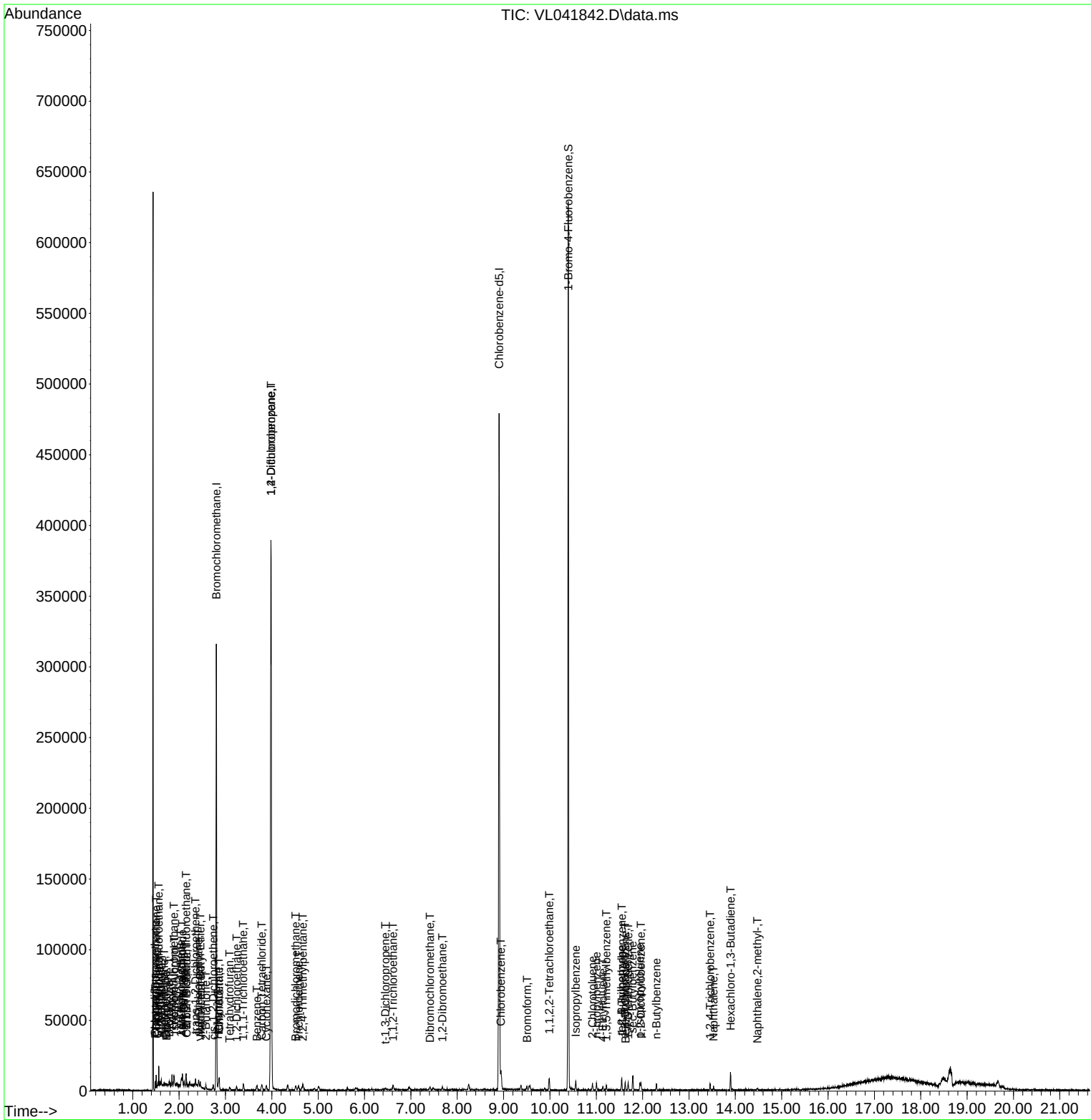
Quant Time: Jan 08 00:57:38 2025

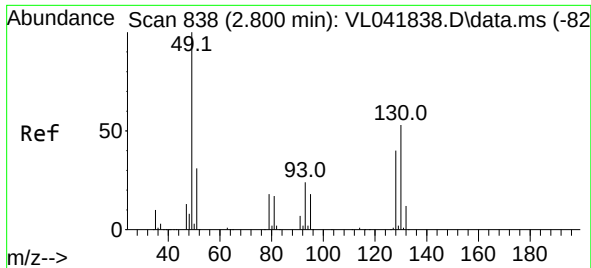
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

QLast Update : Tue Jan 07 13:48:55 2025

Response via : Initial Calibration

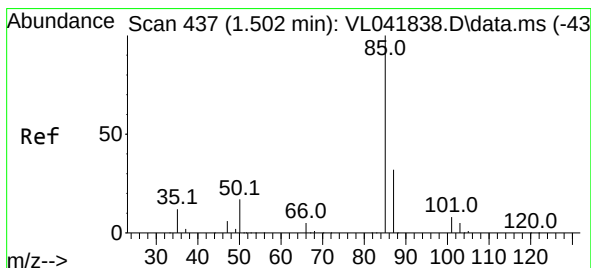
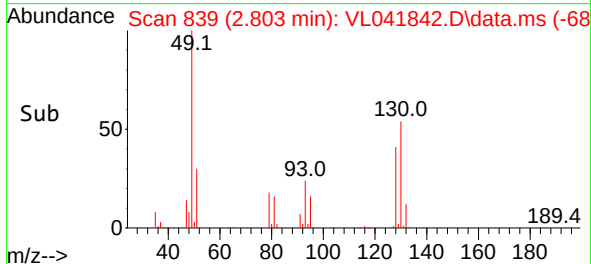
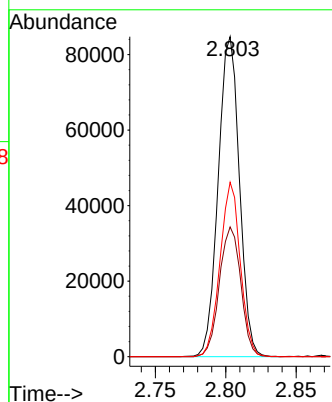
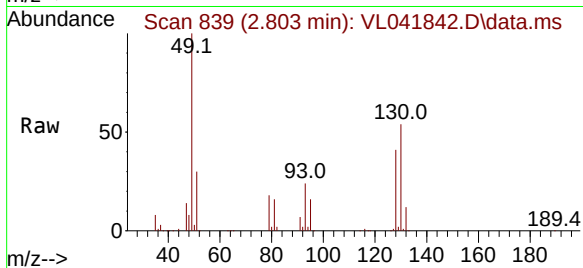




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL041842.D
Acq: 07 Jan 2025 11:22

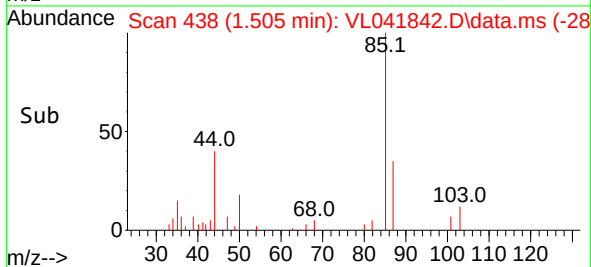
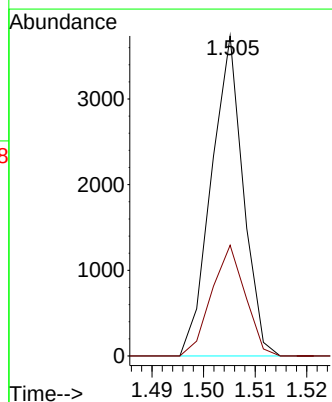
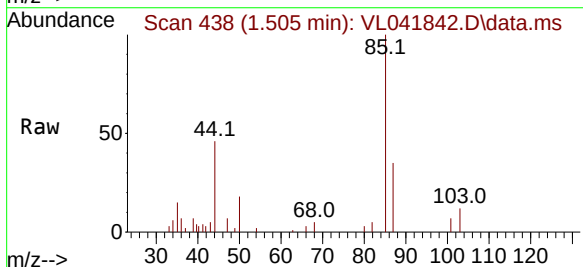
Instrument :
MSVOA_L
ClientSampleId :

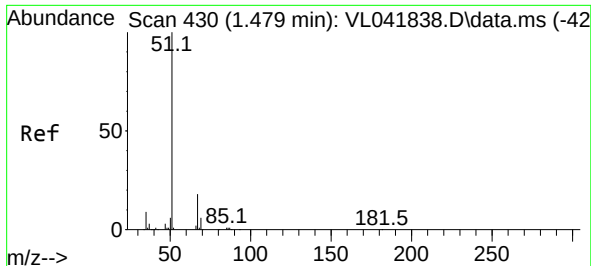
Tgt Ion: 49 Resp: 88722
Ion Ratio Lower Upper
49 100
128 41.0 19.7 59.1
130 52.1 26.4 79.2



#2
Dichlorodifluoromethane
Concen: 0.110 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.003 min
Lab File: VL041842.D
Acq: 07 Jan 2025 11:22

Tgt Ion: 85 Resp: 1605
Ion Ratio Lower Upper
85 100
87 34.6 25.6 38.4

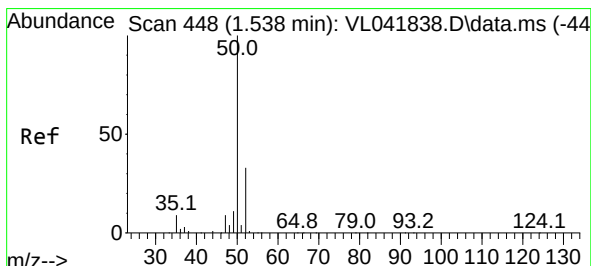
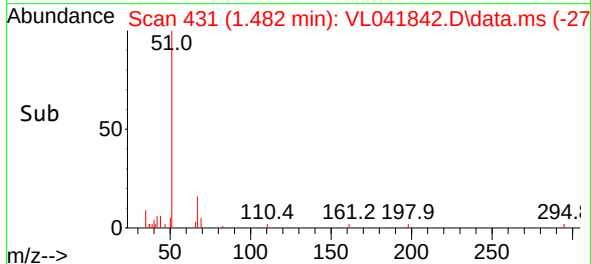
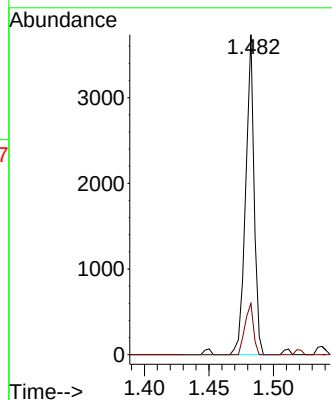
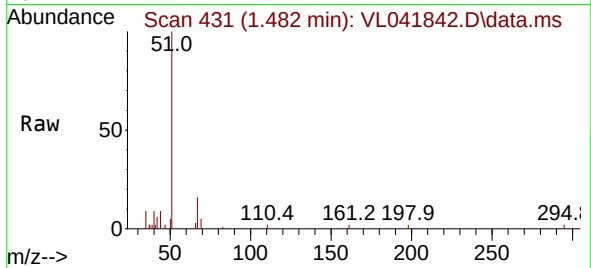




#3
Chlorodifluoromethane
Concen: 0.124 ppbv
RT: 1.482 min Scan# 431
Delta R.T. 0.003 min
Lab File: VL041842.D
Acq: 07 Jan 2025 11:22

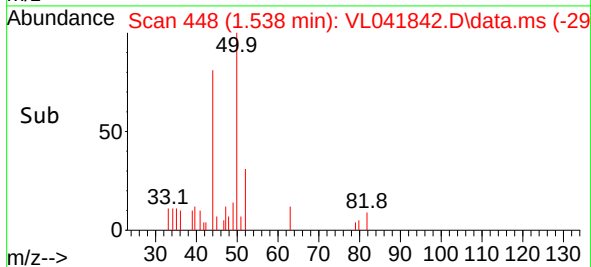
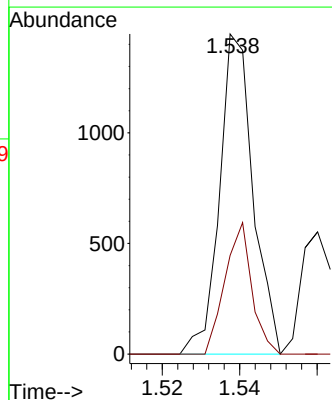
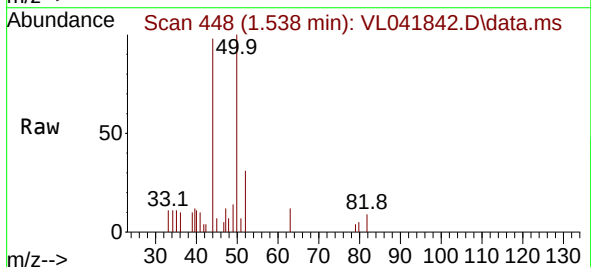
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MSVOA_L
ClientSampleId :

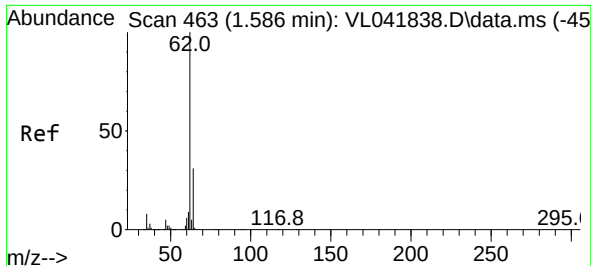
Tgt Ion: 51 Resp: 1724
Ion Ratio Lower Upper
51 100
67 15.8 14.6 22.0



#4
Chloromethane
Concen: 0.145 ppbv
RT: 1.538 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL041842.D
Acq: 07 Jan 2025 11:22

Tgt Ion: 50 Resp: 871
Ion Ratio Lower Upper
50 100
52 30.8 26.1 39.1

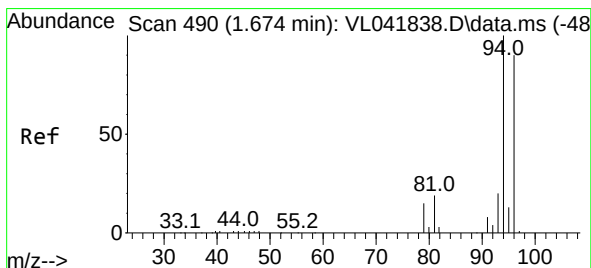
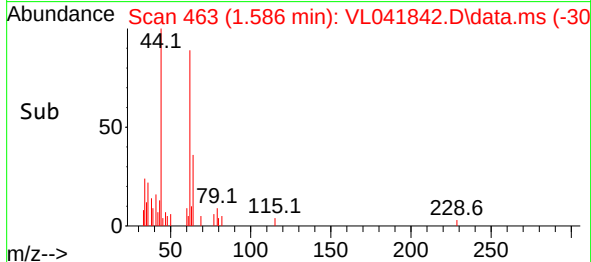
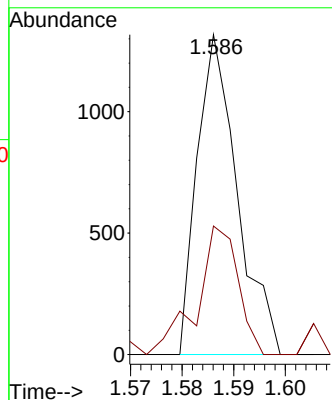
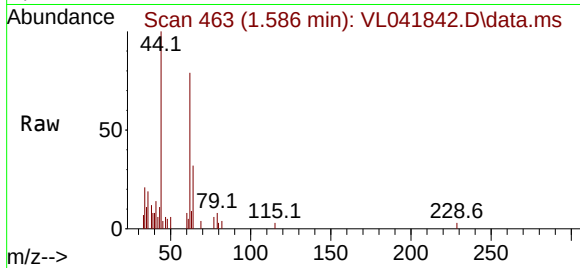




#5
 Vinyl Chloride
 Concen: 0.118 ppbv
 RT: 1.586 min Scan# 463
 Delta R.T. -0.000 min
 Lab File: VL041842.D
 Acq: 07 Jan 2025 11:22

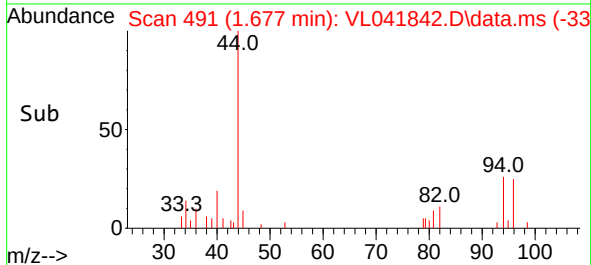
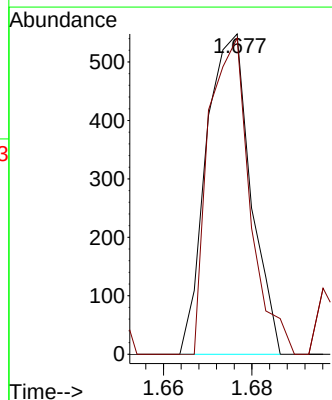
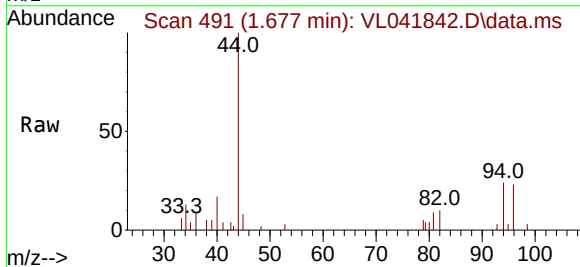
Instrument :
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 ClientSampleId :

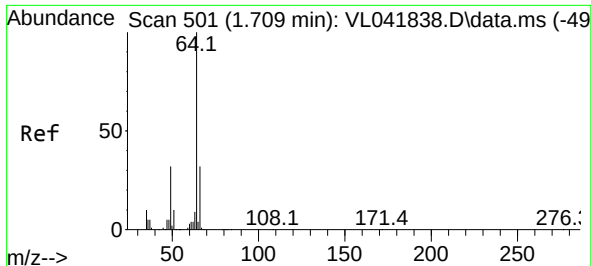
Tgt Ion: 62 Resp: 711
 Ion Ratio Lower Upper
 62 100
 64 40.2 24.9 37.3#



#6
 Bromomethane
 Concen: 0.148 ppbv
 RT: 1.677 min Scan# 491
 Delta R.T. 0.003 min
 Lab File: VL041842.D
 Acq: 07 Jan 2025 11:22

Tgt Ion: 94 Resp: 383
 Ion Ratio Lower Upper
 94 100
 96 98.7 72.0 108.0

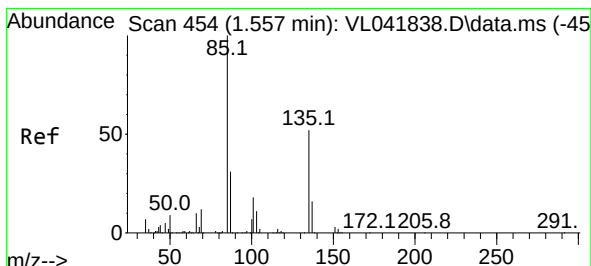
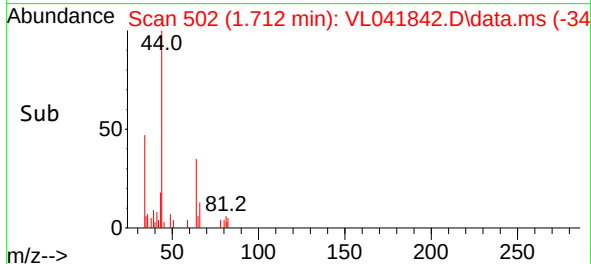
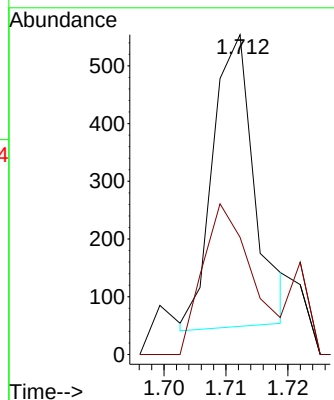
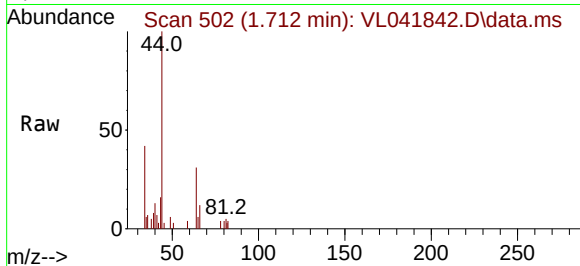




#7
Chloroethane
Concen: 0.102 ppbv
RT: 1.712 min Scan# 501
Delta R.T. 0.003 min
Lab File: VL041842.D
Acq: 07 Jan 2025 11:22

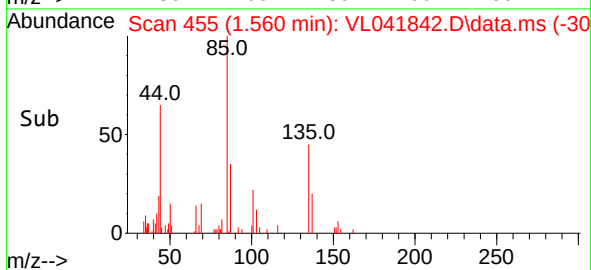
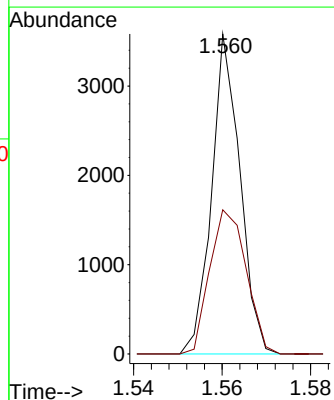
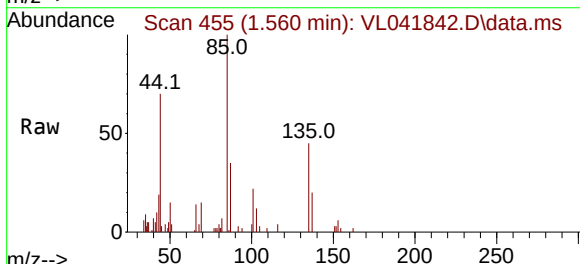
Instrument :
MSVOA_L
ClientSampleId :

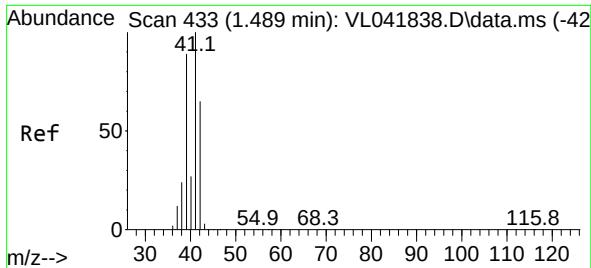
Tgt Ion: 64 Resp: 238
Ion Ratio Lower Upper
64 100
66 36.6 25.6 38.4



#8
Dichlorotetrafluoroethane
Concen: 0.127 ppbv
RT: 1.560 min Scan# 455
Delta R.T. 0.003 min
Lab File: VL041842.D
Acq: 07 Jan 2025 11:22

Tgt Ion: 85 Resp: 1596
Ion Ratio Lower Upper
85 100
135 58.0 47.9 71.9





#9

Propene

Concen: 0.161 ppbv

RT: 1.489 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL041842.D

Acq: 07 Jan 2025 11:22

Instrument :

MSVOA_L

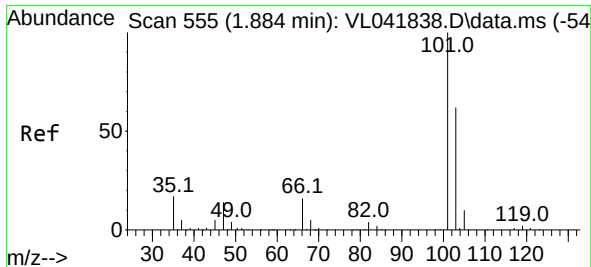
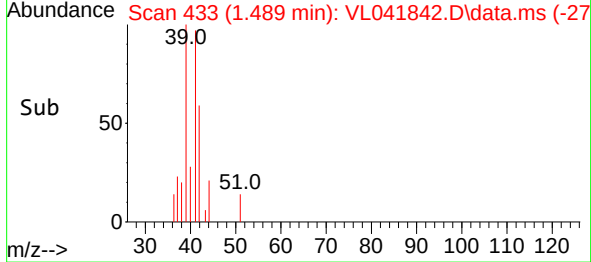
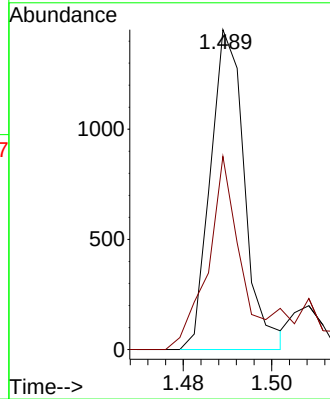
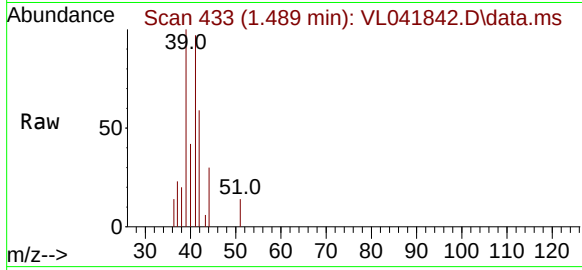
ClientSampleId :

Tgt Ion: 41 Resp: 780

Ion Ratio Lower Upper

41 100

42 74.2 54.4 81.6



#11

Trichlorofluoromethane

Concen: 0.120 ppbv

RT: 1.887 min Scan# 556

Delta R.T. 0.003 min

Lab File: VL041842.D

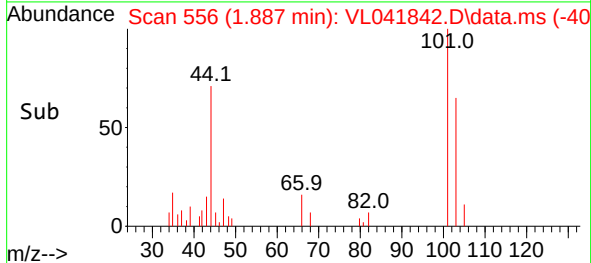
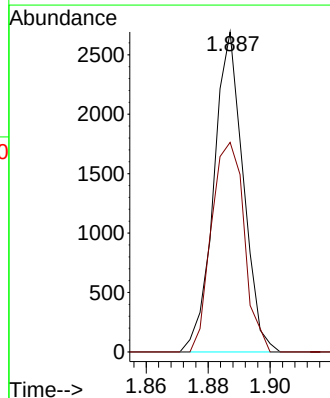
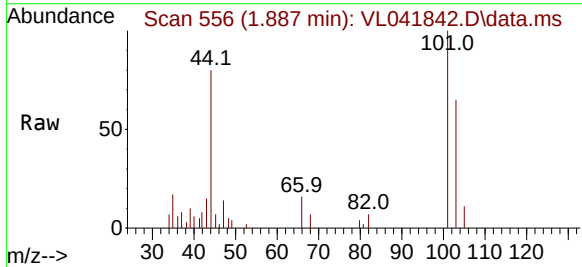
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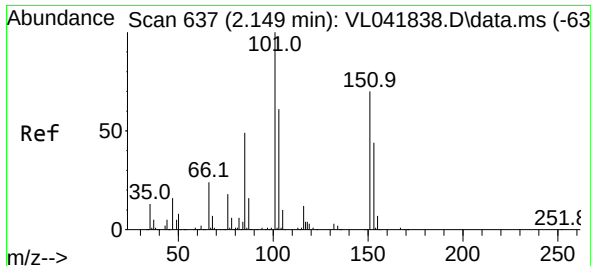
Tgt Ion: 101 Resp: 1776

Ion Ratio Lower Upper

101 100

103 65.5 49.4 74.0

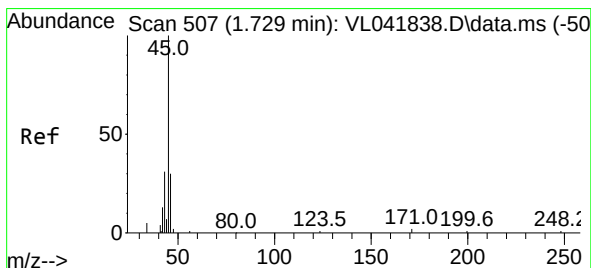
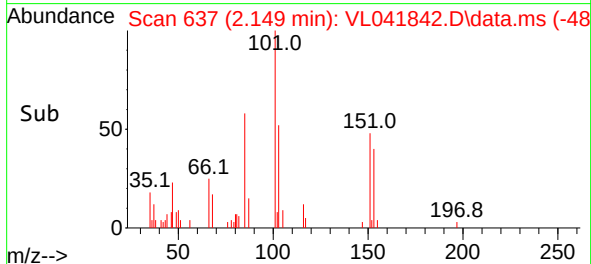
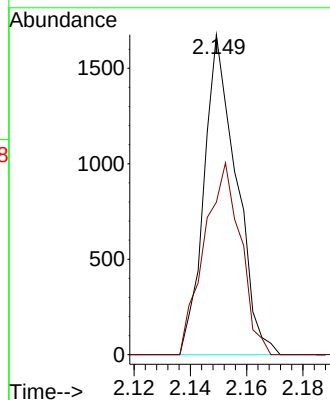
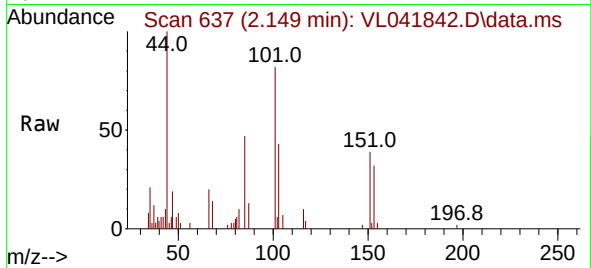




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.121 ppbv
 RT: 2.149 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL041842.D
 Acq: 07 Jan 2025 11:22

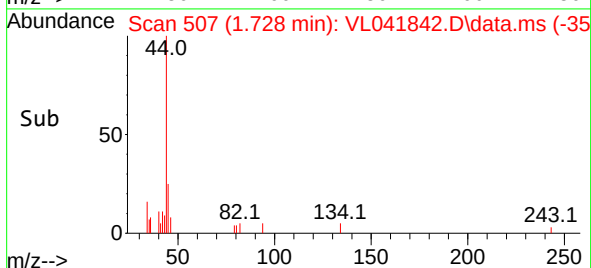
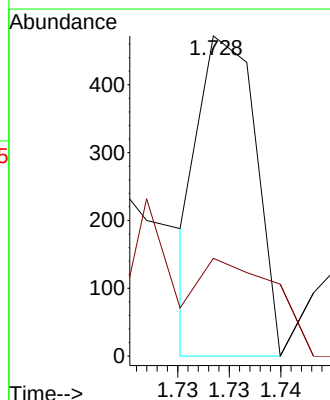
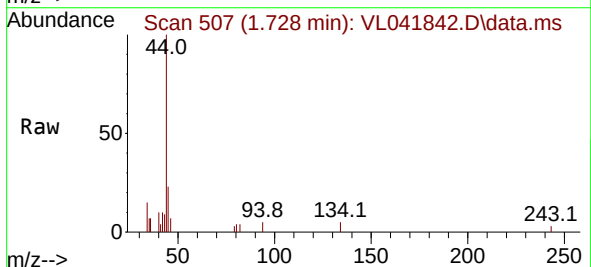
Instrument :
 MSVOA_L
 ClientSampleId :

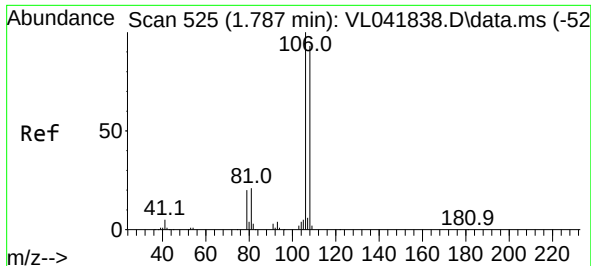
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 Ion Ratio Lower Upper
 101 100
 151 67.5 53.2 79.8



#13
 Ethanol
 Concen: 0.319 ppbv
 RT: 1.728 min Scan# 507
 Delta R.T. -0.000 min
 Lab File: VL041842.D
 Acq: 07 Jan 2025 11:22

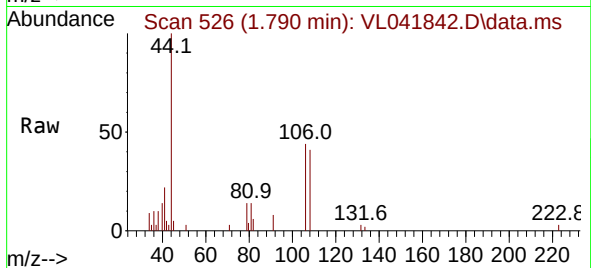
Tgt Ion: 45 Resp: 176
 Ion Ratio Lower Upper
 45 100
 46 0.0 16.1 64.5#



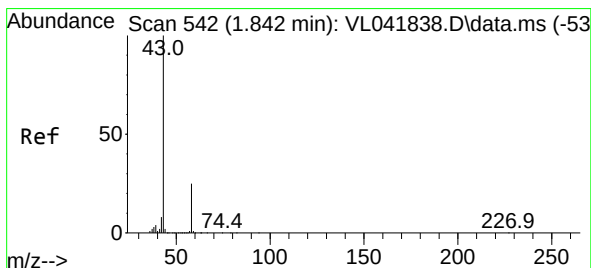
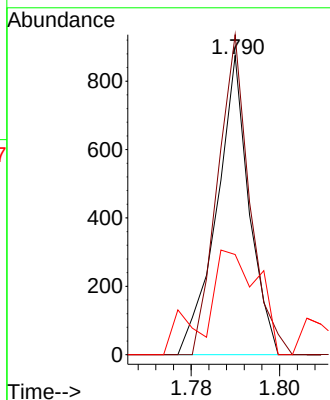
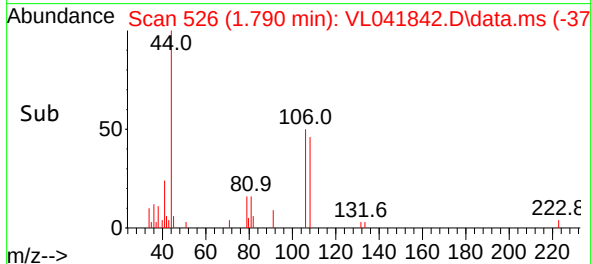


#14
Bromoethene
Concen: 0.123 ppbv
RT: 1.790 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL041842.D
Acq: 07 Jan 2025 11:22

Instrument :
MSVOA_L
ClientSampleId :

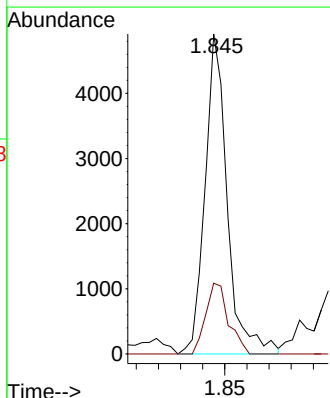
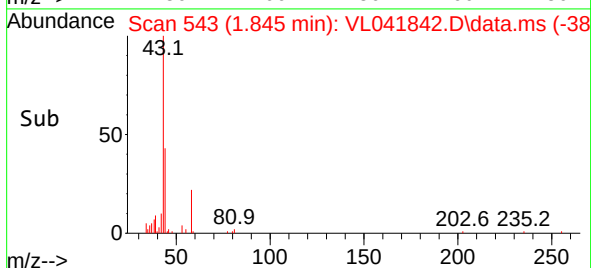
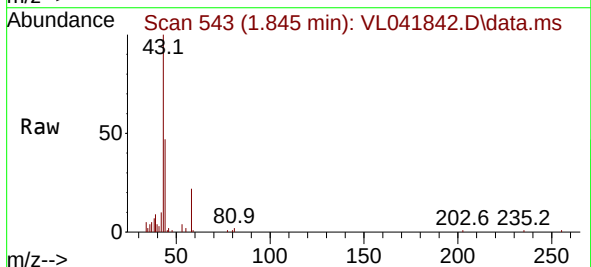


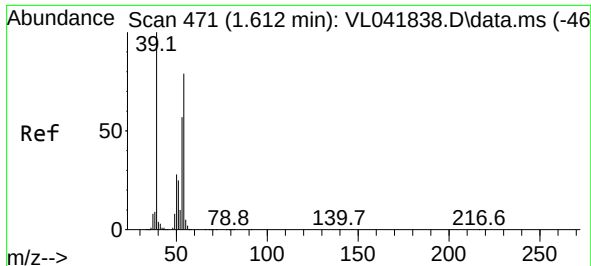
Tgt Ion:108 Resp: 445
Ion Ratio Lower Upper
108 100
106 105.6 84.6 126.8
79 73.7 18.3 27.5#



#15
Acetone
Concen: 0.209 ppbv
RT: 1.845 min Scan# 543
Delta R.T. 0.003 min
Lab File: VL041842.D
Acq: 07 Jan 2025 11:22

Tgt Ion: 43 Resp: 3415
Ion Ratio Lower Upper
43 100
58 22.6 20.2 30.2

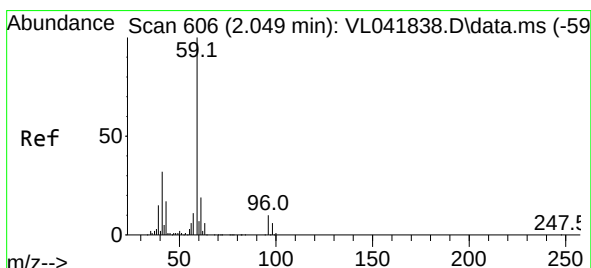
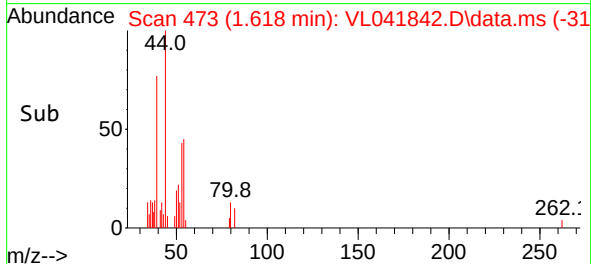
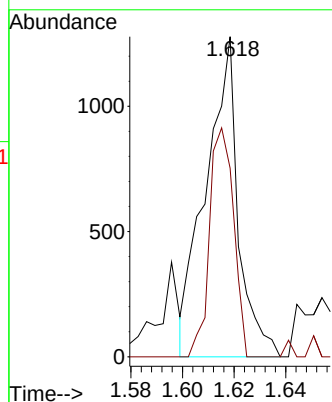
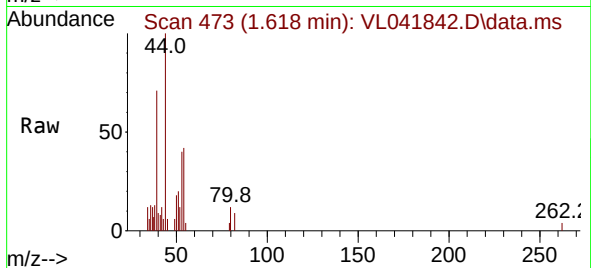




#16
1,3-Butadiene
Concen: 0.174 ppbv
RT: 1.618 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL041842.D
Acq: 07 Jan 2025 11:22

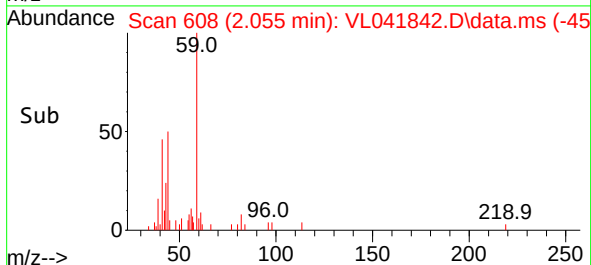
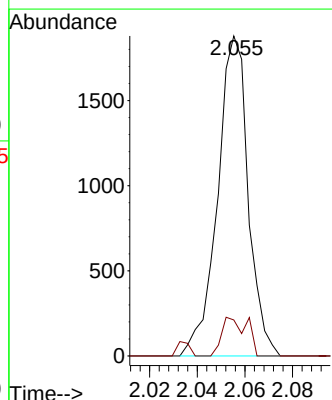
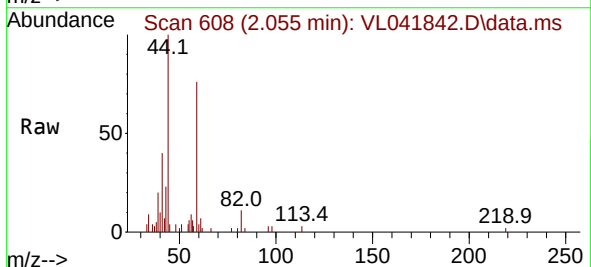
Instrument :
MSVOA_L
ClientSampleId :

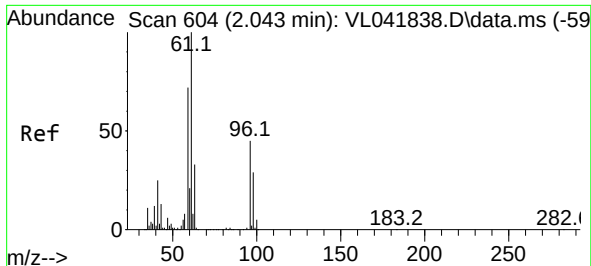
Tgt Ion: 39 Resp: 1114
Ion Ratio Lower Upper
39 100
54 53.1 56.2 84.4#



#17
tert-Butyl alcohol
Concen: 0.119 ppbv
RT: 2.055 min Scan# 608
Delta R.T. 0.006 min
Lab File: VL041842.D
Acq: 07 Jan 2025 11:22

Tgt Ion: 59 Resp: 1678
Ion Ratio Lower Upper
59 100
57 11.8 8.6 13.0





#18

1,1-Dichloroethene

Concen: 0.113 ppbv

RT: 2.039 min Scan# 604

Delta R.T. -0.003 min

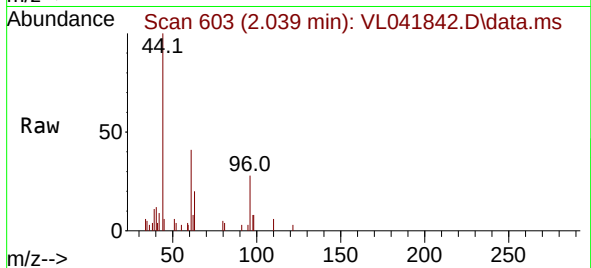
Lab File: VL041842.D

Acq: 07 Jan 2025 11:22

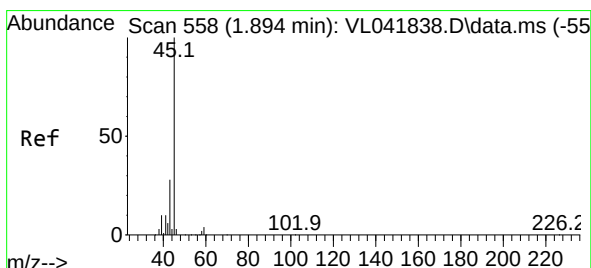
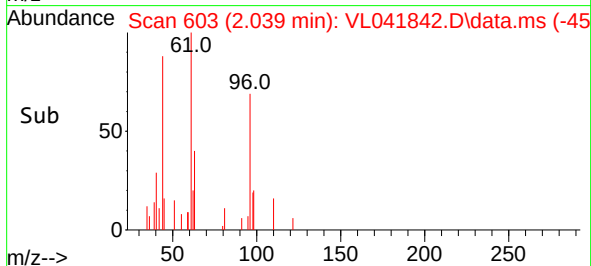
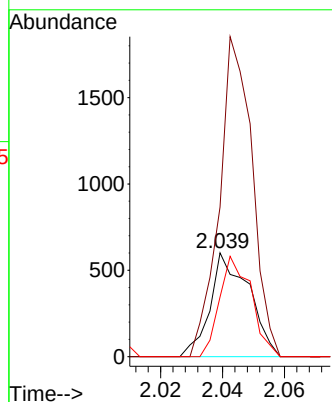
Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:	96	Resp:	520
Ion	Ratio	Lower	Upper
96	100		
61	144.1	179.2	268.8#
98	57.4	51.6	77.4



#19

Isopropyl Alcohol

Concen: 0.228 ppbv

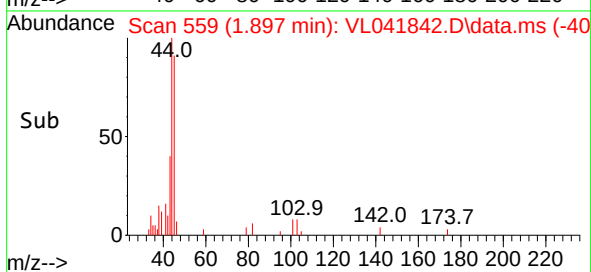
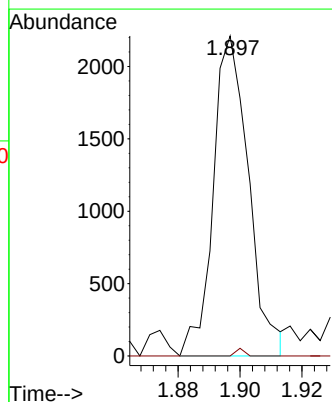
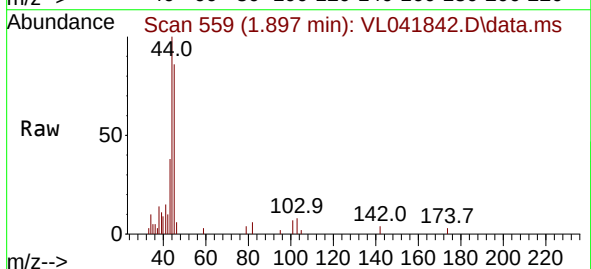
RT: 1.897 min Scan# 559

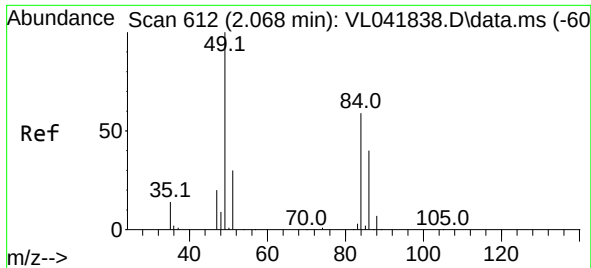
Delta R.T. 0.003 min

Lab File: VL041842.D

Acq: 07 Jan 2025 11:22

Tgt Ion:	45	Resp:	1751
Ion	Ratio	Lower	Upper
45	100		
58	0.0	2.0	3.0#





#20

Methylene Chloride

Concen: 0.264 ppbv

RT: 2.068 min Scan# 612

Delta R.T. -0.000 min

Lab File: VL041842.D

Acq: 07 Jan 2025 11:22

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 84 Resp: 1234

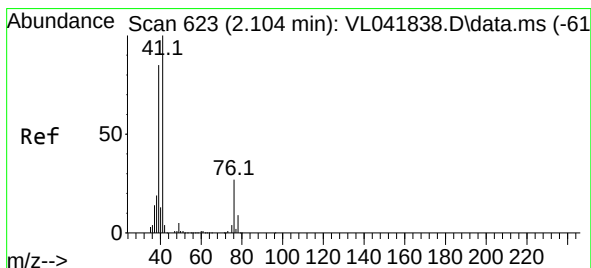
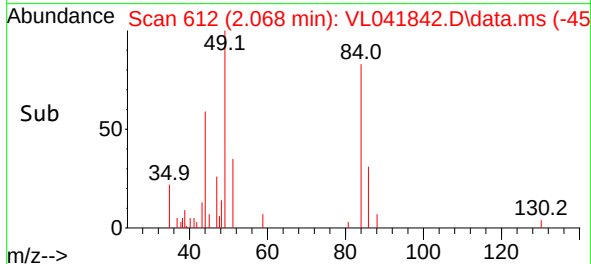
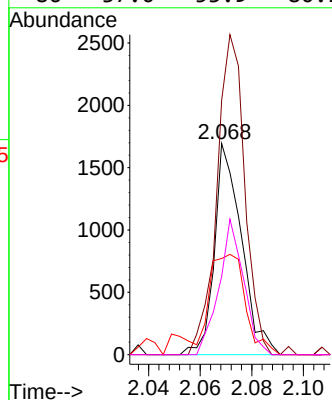
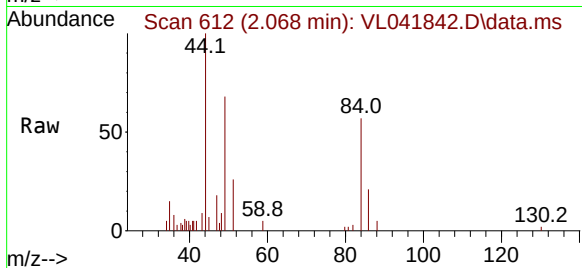
Ion Ratio Lower Upper

84 100

49 120.4 137.8 206.8#

51 45.5 43.9 65.9

86 37.0 53.9 80.9#



#21

Allyl Chloride

Concen: 0.134 ppbv

RT: 2.104 min Scan# 623

Delta R.T. -0.000 min

Lab File: VL041842.D

Acq: 07 Jan 2025 11:22

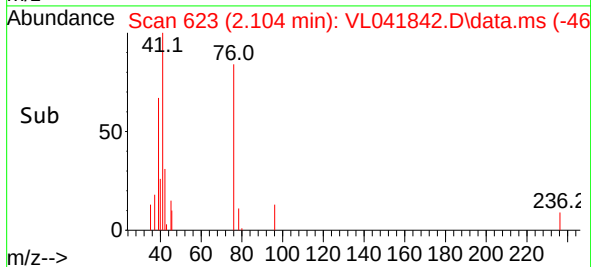
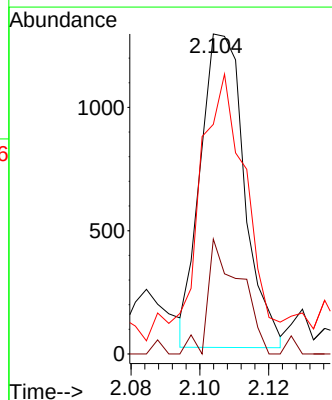
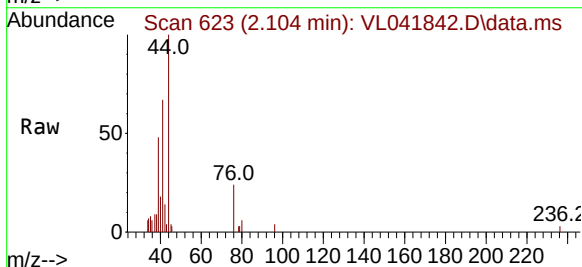
Tgt Ion: 41 Resp: 1130

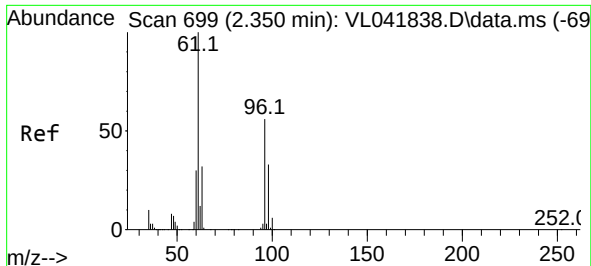
Ion Ratio Lower Upper

41 100

76 28.5 20.6 31.0

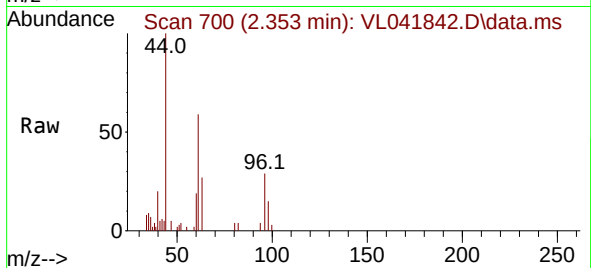
39 123.6 67.4 101.2#



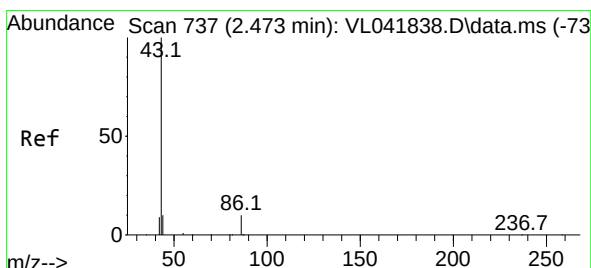
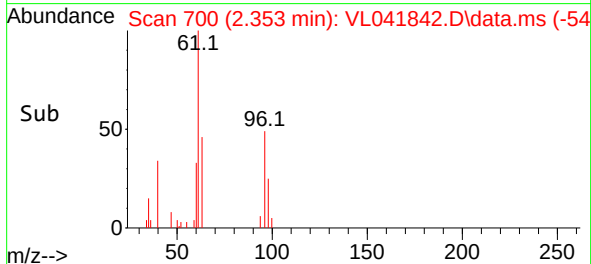
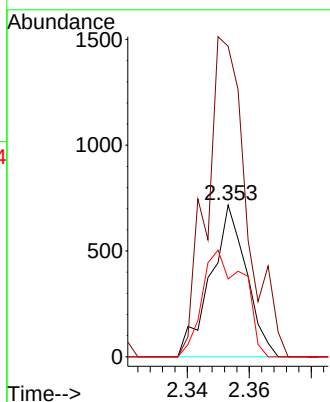


#22
trans-1,2-Dichloroethene
Concen: 0.111 ppbv
RT: 2.353 min Scan# 700
Delta R.T. 0.003 min
Lab File: VL041842.D
Acq: 07 Jan 2025 11:22

Instrument :
MSVOA_L
ClientSampleId :

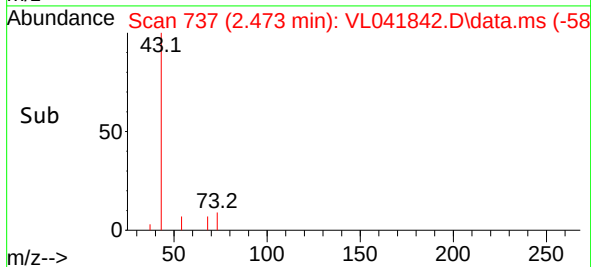
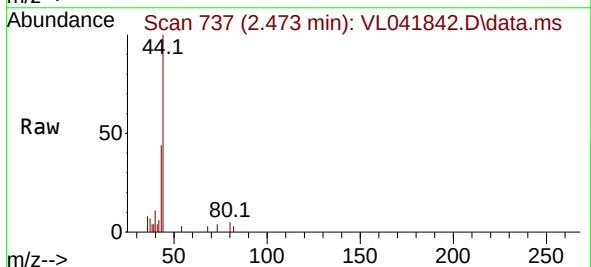
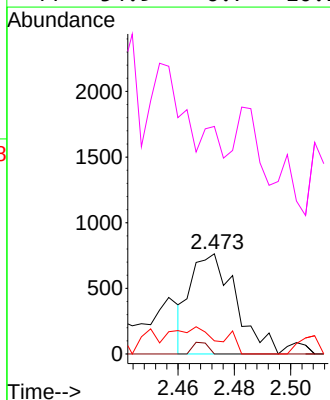


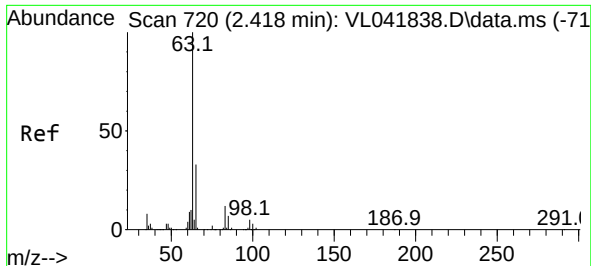
Tgt Ion: 96 Resp: 575
Ion Ratio Lower Upper
96 100
61 204.7 144.0 216.0
98 51.3 46.9 70.3



#23
Vinyl Acetate
Concen: 0.163 ppbv
RT: 2.473 min Scan# 737
Delta R.T. -0.000 min
Lab File: VL041842.D
Acq: 07 Jan 2025 11:22

Tgt Ion: 43 Resp: 852
Ion Ratio Lower Upper
43 100
86 0.0 6.4 9.6#
42 13.1 9.5 14.3
44 54.9 6.7 10.1#

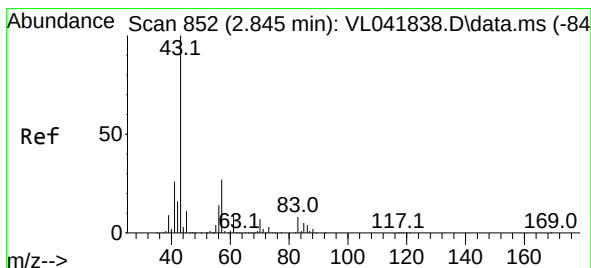
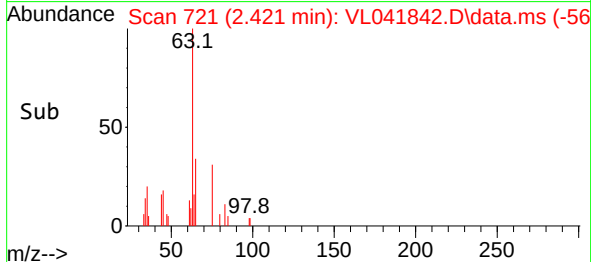
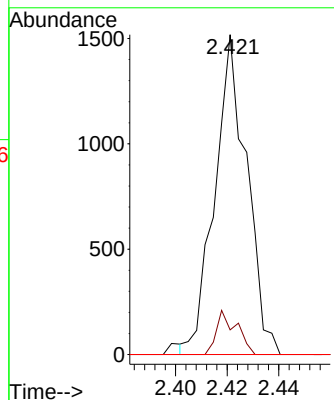
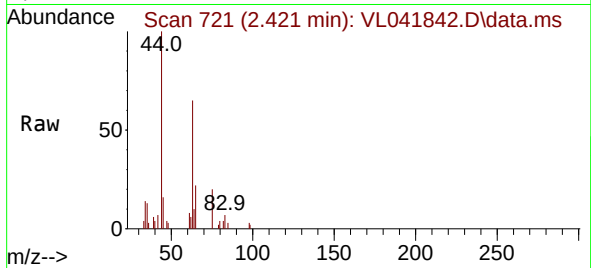




#24
1,1-Dichloroethane
Concen: 0.116 ppbv
RT: 2.421 min Scan# 71
Delta R.T. 0.003 min
Lab File: VL041842.D
Acq: 07 Jan 2025 11:22

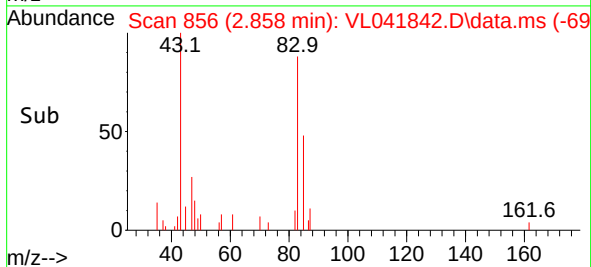
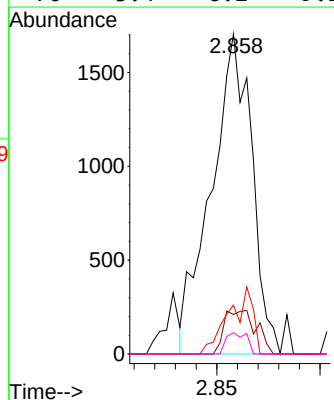
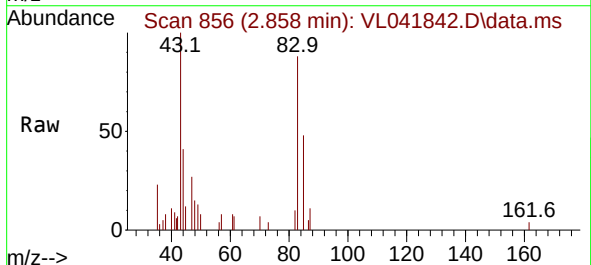
Instrument :
MSVOA_L
ClientSampleId :

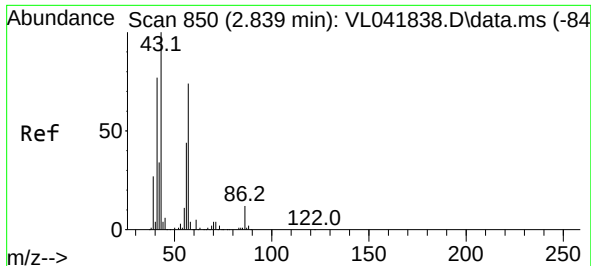
Tgt Ion: 63 Resp: 1310
Ion Ratio Lower Upper
63 100
98 7.7 2.3 6.9#
100 0.0 1.4 4.0#



#25
Ethyl Acetate
Concen: 0.085 ppbv
RT: 2.858 min Scan# 856
Delta R.T. 0.013 min
Lab File: VL041842.D
Acq: 07 Jan 2025 11:22

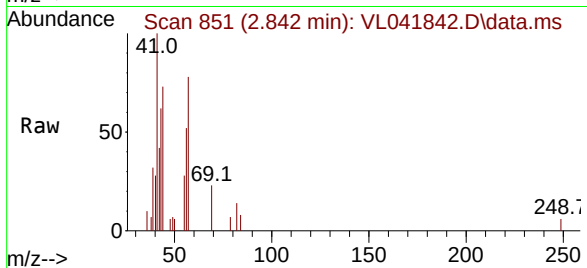
Tgt Ion: 43 Resp: 2328
Ion Ratio Lower Upper
43 100
45 10.7 7.8 11.8
61 12.5 7.0 10.6#
70 3.4 6.2 9.2#



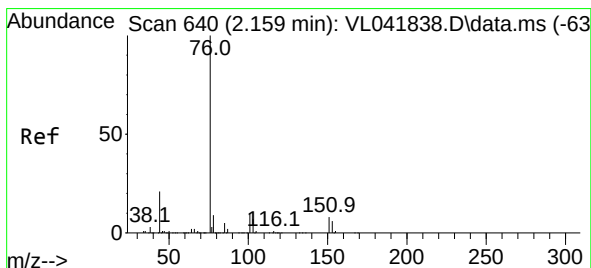
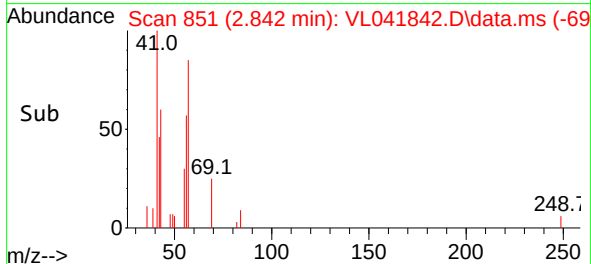
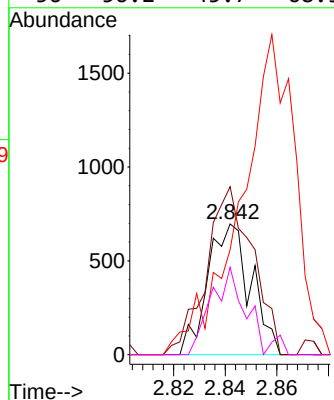


#26
Hexane
Concen: 0.085 ppbv
RT: 2.842 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL041842.D
Acq: 07 Jan 2025 11:22

Instrument :
MSVOA_L
ClientSampleId :

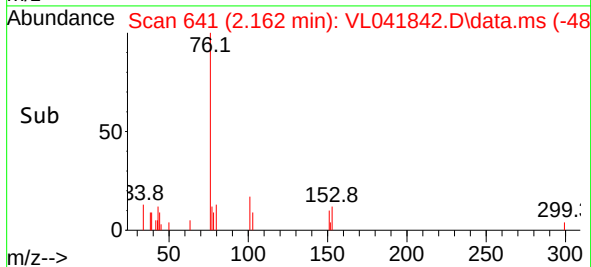
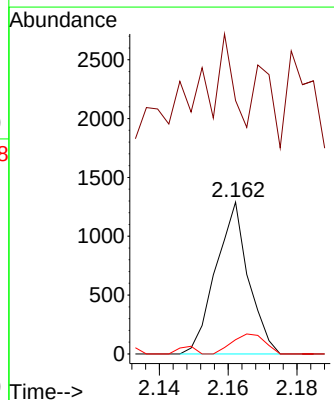
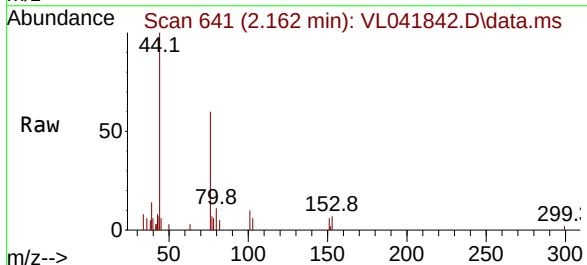


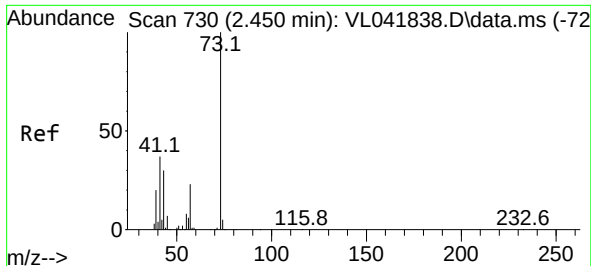
Tgt Ion: 57 Resp: 808
Ion Ratio Lower Upper
57 100
41 141.1 84.1 126.1#
43 318.7 218.4 327.6
56 56.2 45.7 68.5



#27
Carbon Disulfide
Concen: 0.094 ppbv
RT: 2.162 min Scan# 641
Delta R.T. 0.003 min
Lab File: VL041842.D
Acq: 07 Jan 2025 11:22

Tgt Ion: 76 Resp: 851
Ion Ratio Lower Upper
76 100
44 466.4 19.8 29.8#
78 15.7 9.8 14.8#

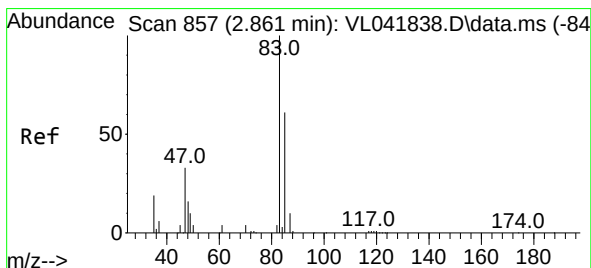
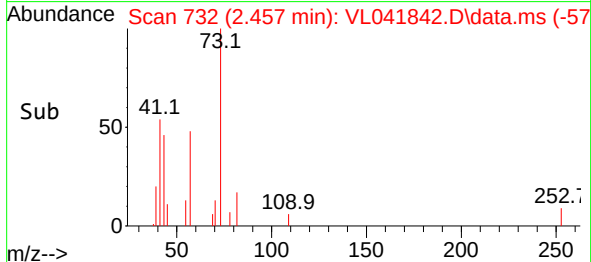
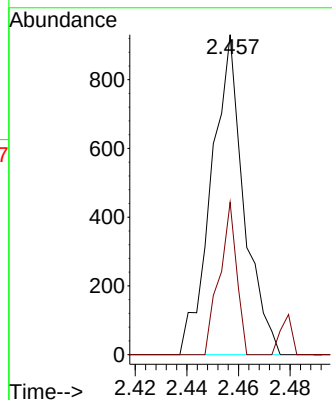
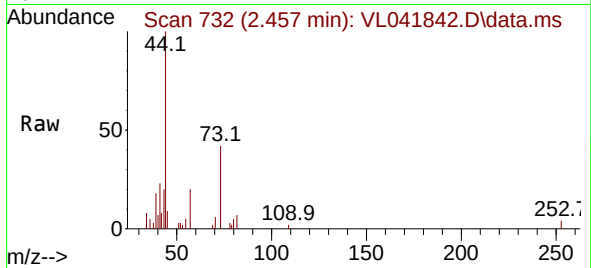




#28
Methyl tert-Butyl Ether
Concen: 0.113 ppbv
RT: 2.457 min Scan# 71
Delta R.T. 0.006 min
Lab File: VL041842.D
Acq: 07 Jan 2025 11:22

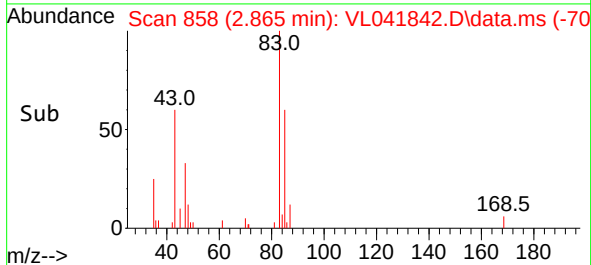
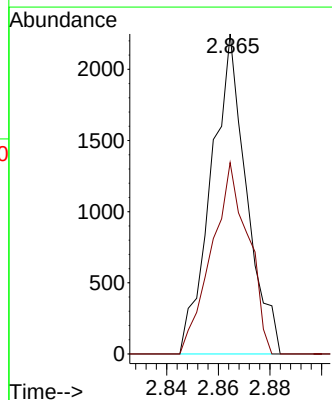
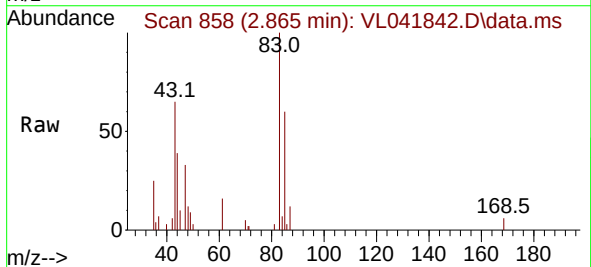
Instrument :
MSVOA_L
ClientSampleId :

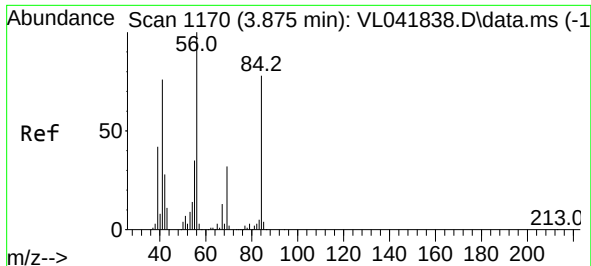
Tgt Ion: 73 Resp: 813
Ion Ratio Lower Upper
73 100
57 29.5 18.4 27.6#



#29
Chloroform
Concen: 0.121 ppbv
RT: 2.865 min Scan# 858
Delta R.T. 0.003 min
Lab File: VL041842.D
Acq: 07 Jan 2025 11:22

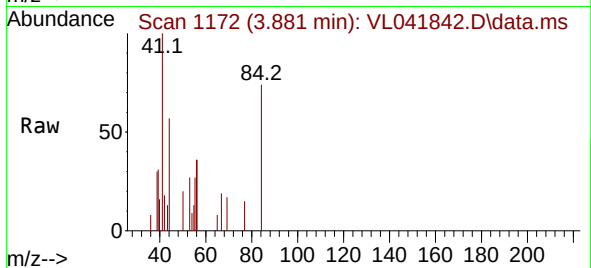
Tgt Ion: 83 Resp: 2136
Ion Ratio Lower Upper
83 100
85 59.8 49.6 74.4



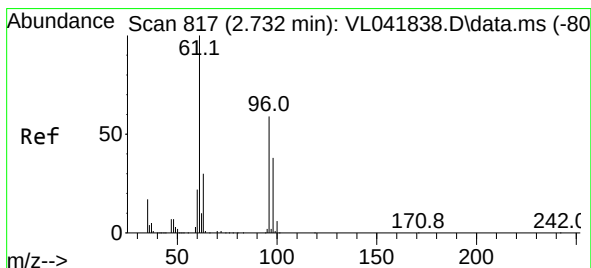
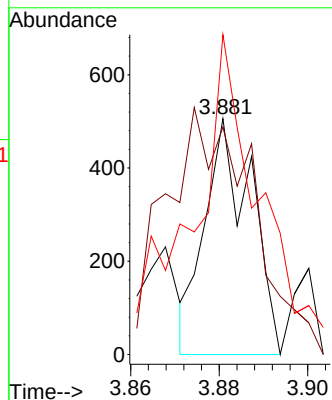
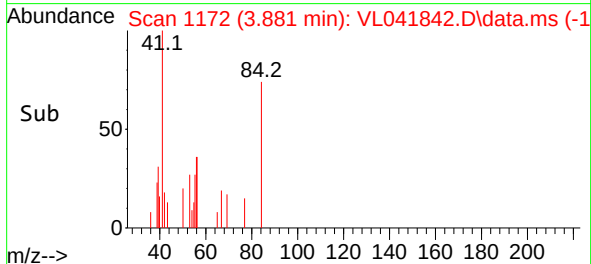


#30
Cyclohexane
Concen: 0.050 ppbv
RT: 3.881 min Scan# 1170
Delta R.T. 0.006 min
Lab File: VL041842.D
Acq: 07 Jan 2025 11:22

Instrument :
MSVOA_L
ClientSampleId :

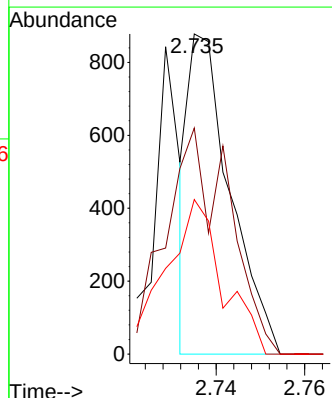
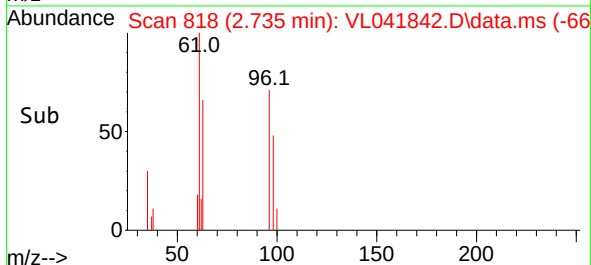
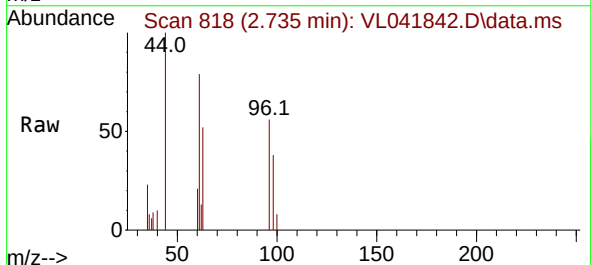


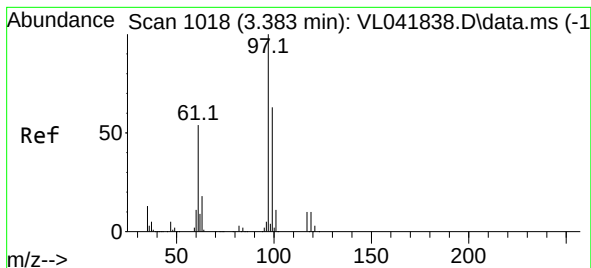
Tgt Ion: 84 Resp: 364
Ion Ratio Lower Upper
84 100
56 205.8 105.0 157.6#
41 201.1 78.9 118.3#



#31
cis-1,2-Dichloroethene
Concen: 0.058 ppbv
RT: 2.735 min Scan# 818
Delta R.T. 0.003 min
Lab File: VL041842.D
Acq: 07 Jan 2025 11:22

Tgt Ion: 61 Resp: 571
Ion Ratio Lower Upper
61 100
96 70.6 47.6 71.4
98 48.3 30.2 45.2#





#32

1,1,1-Trichloroethane

Concen: 0.098 ppbv

RT: 3.382 min Scan# 1018

Delta R.T. -0.000 min

Lab File: VL041842.D

Acq: 07 Jan 2025 11:22

Instrument :

MSVOA_L

ClientSampleId :

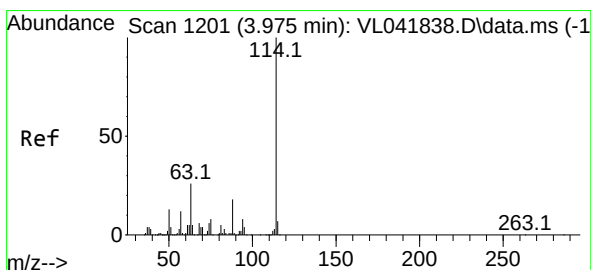
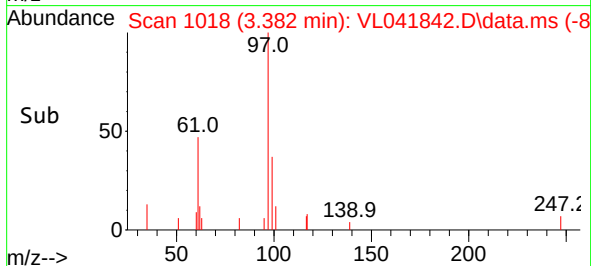
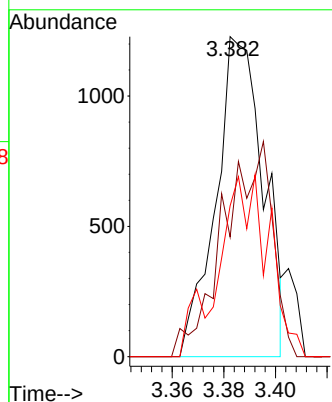
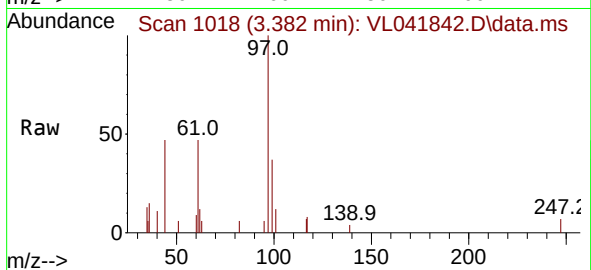
Tgt Ion: 97 Resp: 1574

Ion Ratio Lower Upper

97 100

99 0.0 50.6 76.0#

61 0.0 45.0 67.6#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.981 min Scan# 1203

Delta R.T. 0.006 min

Lab File: VL041842.D

Acq: 07 Jan 2025 11:22

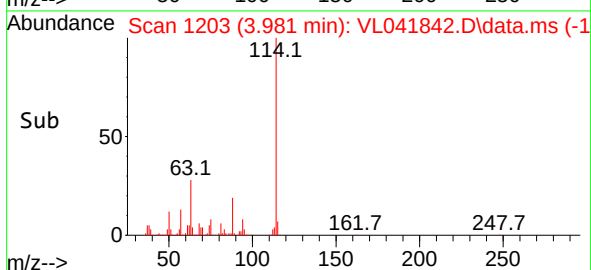
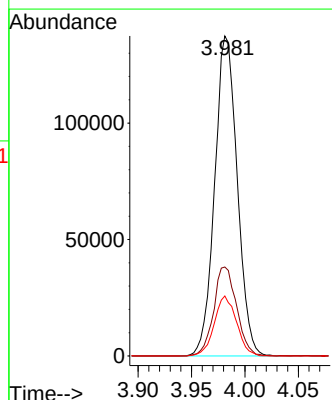
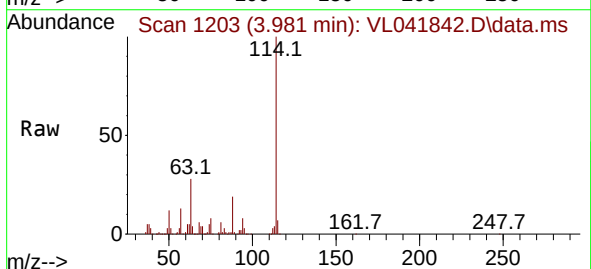
Tgt Ion: 114 Resp: 202136

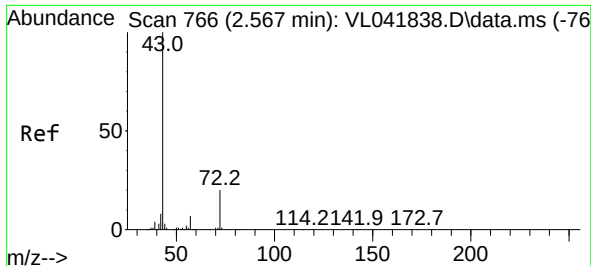
Ion Ratio Lower Upper

114 100

63 28.3 22.3 33.5

88 18.5 14.9 22.3

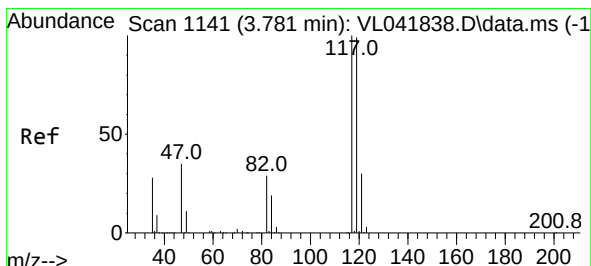
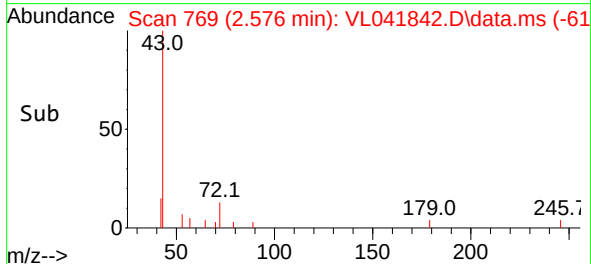
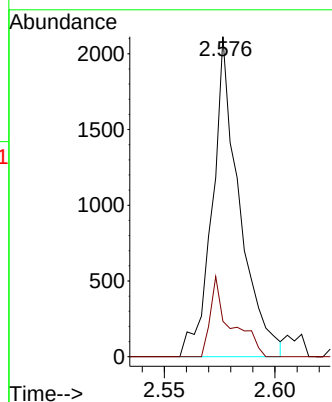
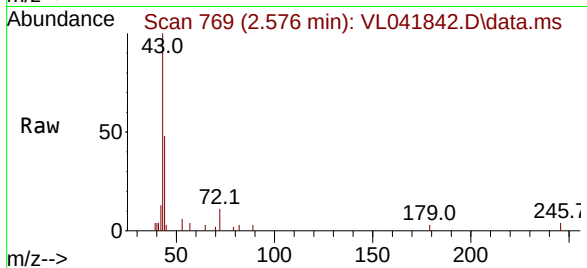




#34
2-Butanone
Concen: 0.112 ppbv
RT: 2.576 min Scan# 769
Delta R.T. 0.010 min
Lab File: VL041842.D
Acq: 07 Jan 2025 11:22

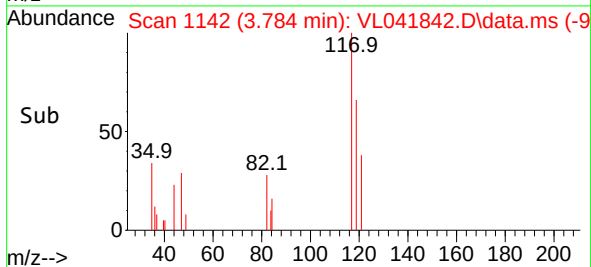
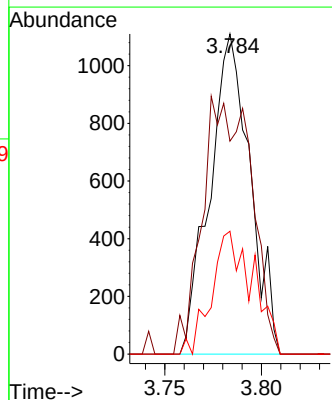
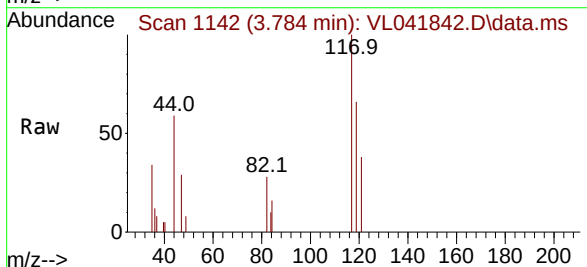
Instrument :
MSVOA_L
ClientSampleId :

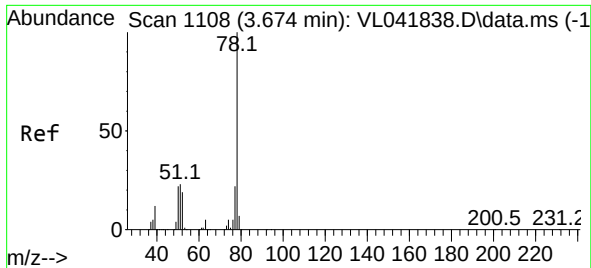
Tgt Ion: 43 Resp: 1791
Ion Ratio Lower Upper
43 100
72 18.9 16.6 25.0



#35
Carbon Tetrachloride
Concen: 0.105 ppbv
RT: 3.784 min Scan# 1142
Delta R.T. 0.003 min
Lab File: VL041842.D
Acq: 07 Jan 2025 11:22

Tgt Ion: 117 Resp: 1607
Ion Ratio Lower Upper
117 100
119 66.5 79.1 118.7#
121 38.4 24.2 36.2#

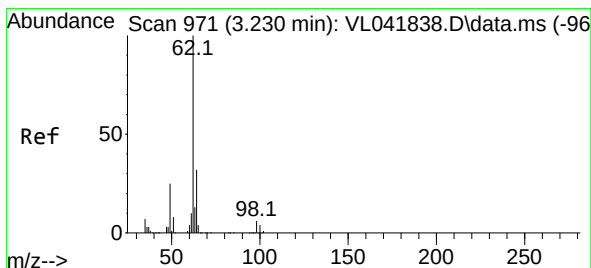
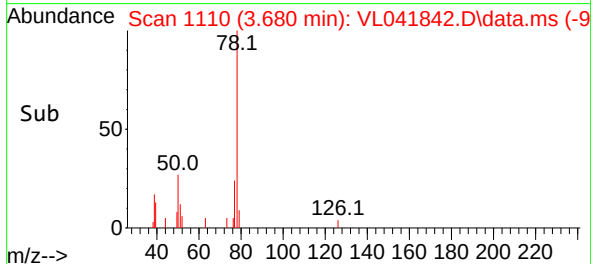
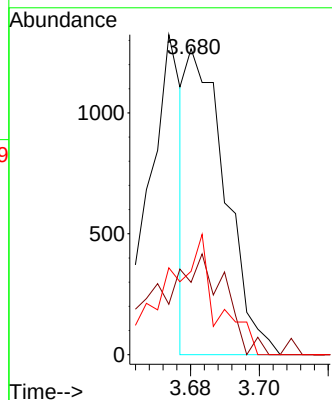
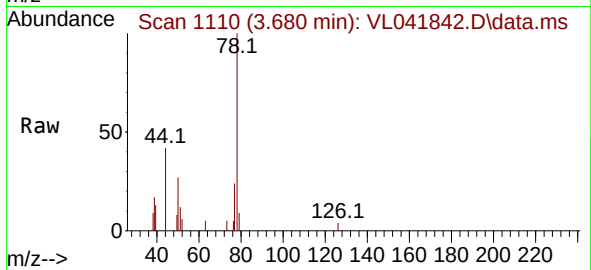




#36
Benzene
Concen: 0.051 ppbv
RT: 3.680 min Scan# 1108
Delta R.T. 0.006 min
Lab File: VL041842.D
Acq: 07 Jan 2025 11:22

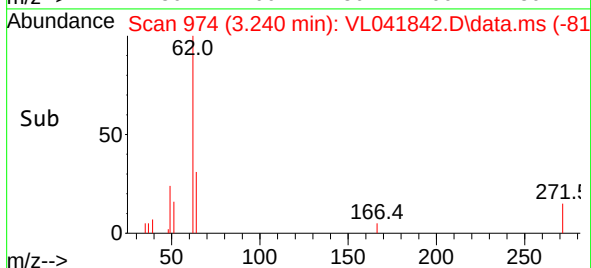
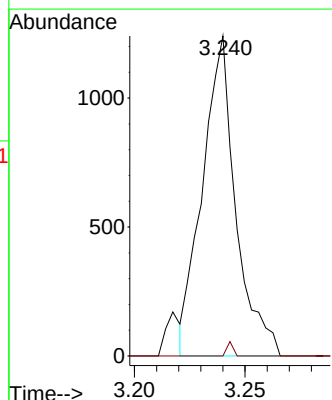
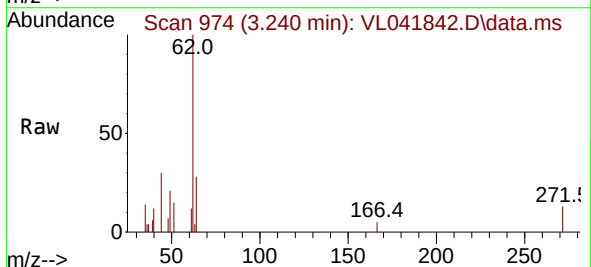
Instrument :
MSVOA_L
ClientSampleId :

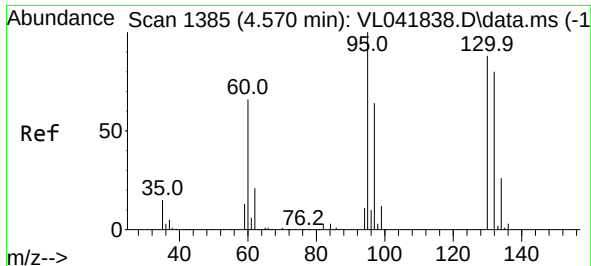
Tgt Ion: 78 Resp: 985
Ion Ratio Lower Upper
78 100
77 23.6 17.4 26.0
50 27.3 17.3 25.9#



#37
1,2-Dichloroethane
Concen: 0.103 ppbv
RT: 3.240 min Scan# 974
Delta R.T. 0.010 min
Lab File: VL041842.D
Acq: 07 Jan 2025 11:22

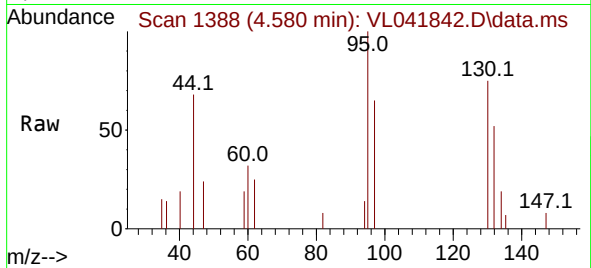
Tgt Ion: 62 Resp: 1302
Ion Ratio Lower Upper
62 100
98 0.0 4.8 7.2#



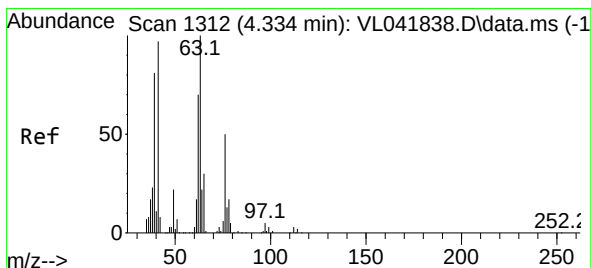
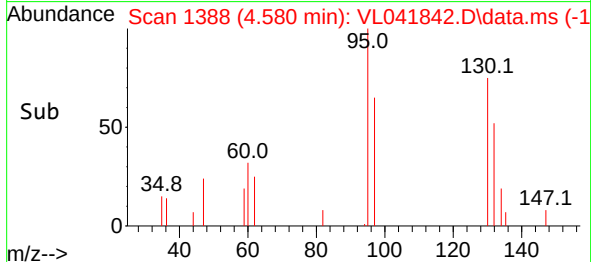
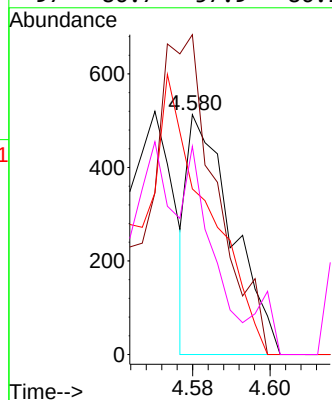


#38
 Trichloroethene
 Concen: 0.054 ppbv
 RT: 4.580 min Scan# 11
 Delta R.T. 0.010 min
 Lab File: VL041842.D
 Acq: 07 Jan 2025 11:22

Instrument :
 MSVOA_L
 ClientSampleId :

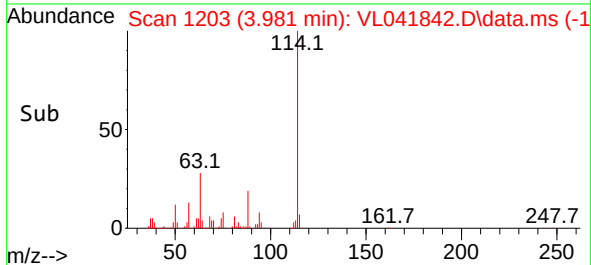
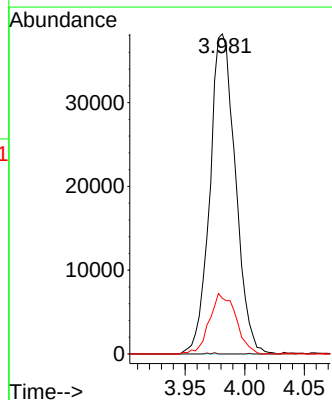
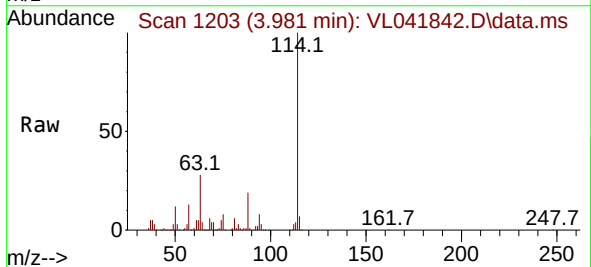


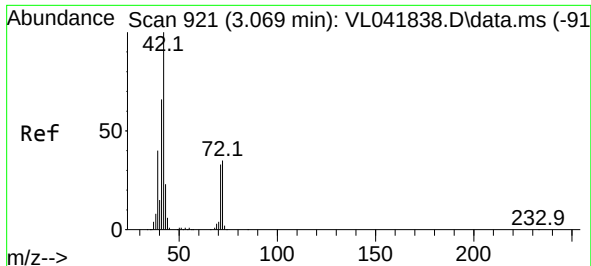
Tgt Ion:	130	Resp:	408
Ion	Ratio	Lower	Upper
130	100		
95	133.3	90.1	135.1
132	69.0	71.8	107.8#
97	86.7	57.9	86.9



#39
 1,2-Dichloropropane
 Concen: 7.636 ppbv
 RT: 3.981 min Scan# 1203
 Delta R.T. -0.353 min
 Lab File: VL041842.D
 Acq: 07 Jan 2025 11:22

Tgt Ion:	63	Resp:	57040
Ion	Ratio	Lower	Upper
63	100		
41	0.0	77.7	116.5#
62	17.4	56.2	84.2#





#41

Tetrahydrofuran

Concen: 0.079 ppbv

RT: 3.088 min Scan# 91

Delta R.T. 0.019 min

Lab File: VL041842.D

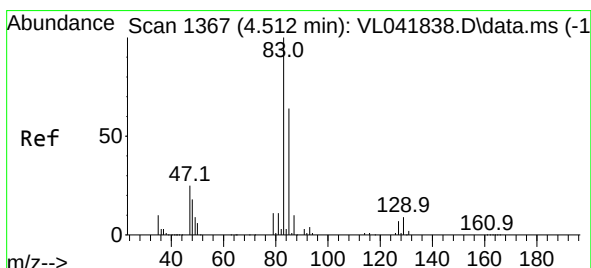
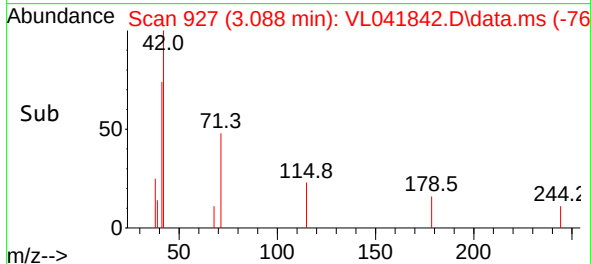
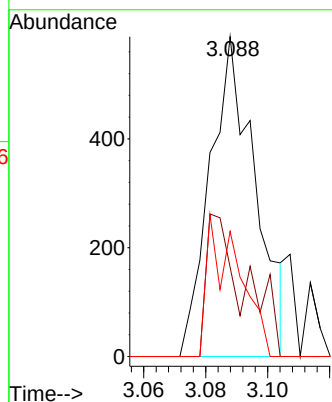
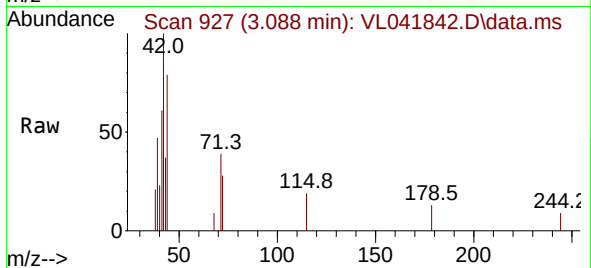
Acq: 07 Jan 2025 11:22

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:	42	Resp:	595
Ion	Ratio	Lower	Upper
42	100		
72	37.6	27.9	41.9
71	31.1	26.5	39.7



#42

Bromodichloromethane

Concen: 0.086 ppbv

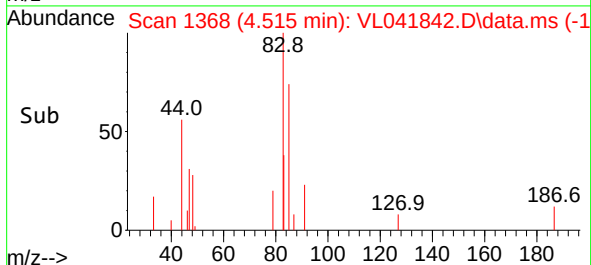
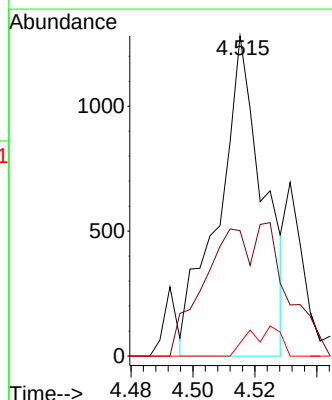
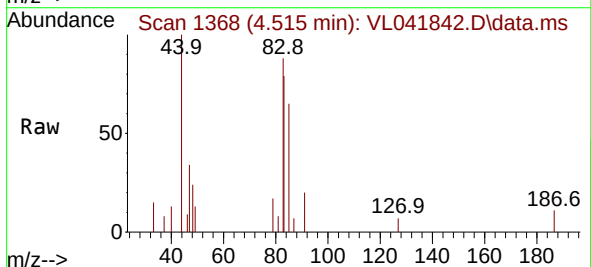
RT: 4.515 min Scan# 1368

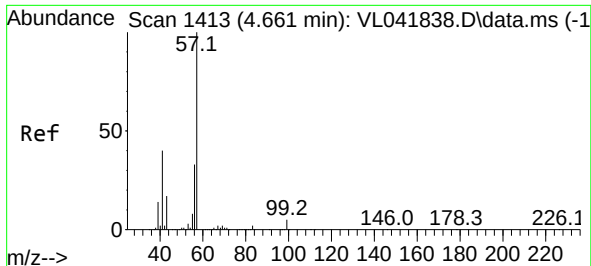
Delta R.T. 0.003 min

Lab File: VL041842.D

Acq: 07 Jan 2025 11:22

Tgt Ion:	83	Resp:	1280
Ion	Ratio	Lower	Upper
83	100		
85	27.3	51.3	76.9#
127	4.3	5.6	8.4#





#44

2,2,4-Trimethylpentane

Concen: 0.054 ppbv

RT: 4.667 min Scan# 1413

Delta R.T. 0.006 min

Lab File: VL041842.D

Acq: 07 Jan 2025 11:22

Instrument :

MSVOA_L

ClientSampleId :

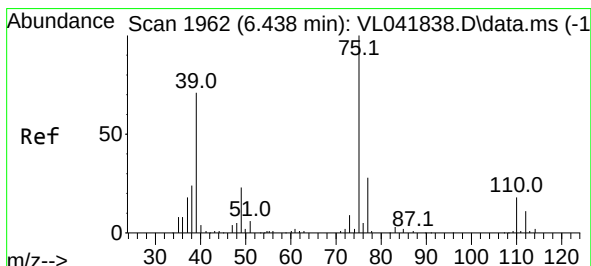
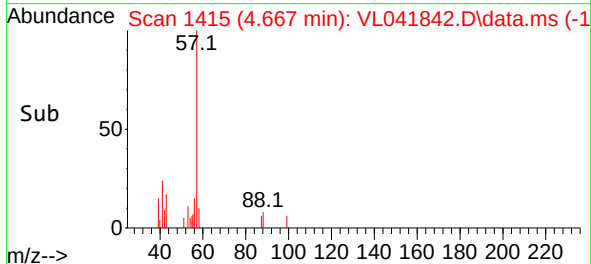
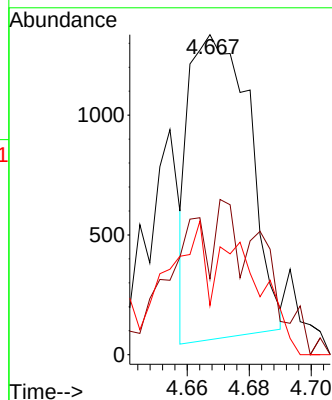
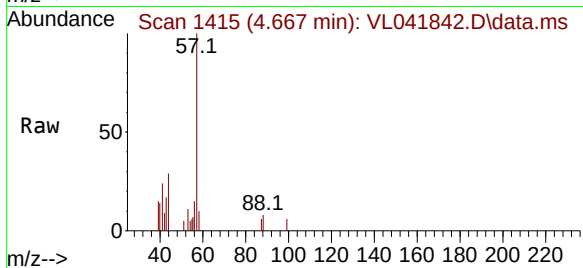
Tgt Ion: 57 Resp: 1703

Ion Ratio Lower Upper

57 100

41 77.9 31.4 47.2#

56 62.6 26.6 39.8#



#45

t-1,3-Dichloropropene

Concen: 0.032 ppbv

RT: 6.451 min Scan# 1966

Delta R.T. 0.013 min

Lab File: VL041842.D

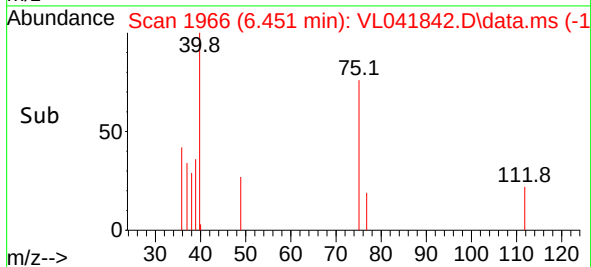
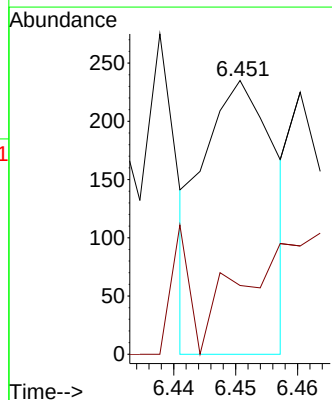
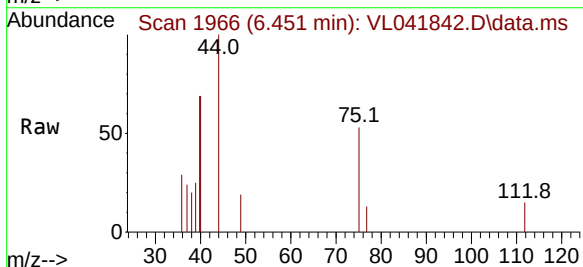
Acq: 07 Jan 2025 11:22

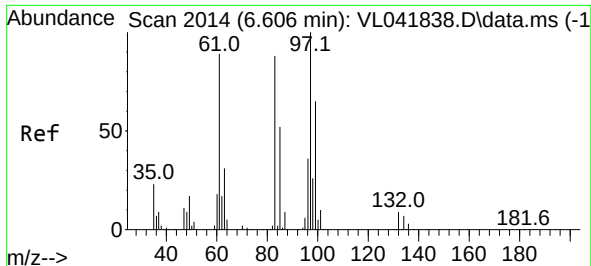
Tgt Ion: 75 Resp: 189

Ion Ratio Lower Upper

75 100

77 25.1 22.2 33.4





#47

1,1,2-Trichloroethane

Concen: 0.050 ppbv

RT: 6.616 min Scan# 2014

Delta R.T. 0.010 min

Lab File: VL041842.D

Acq: 07 Jan 2025 11:22

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 97 Resp: 393

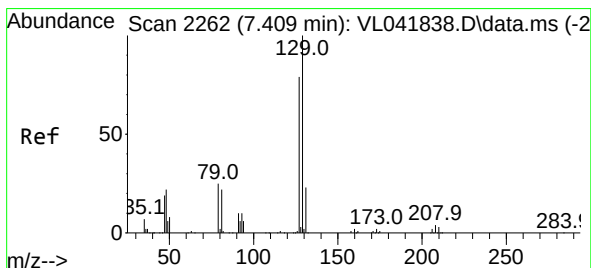
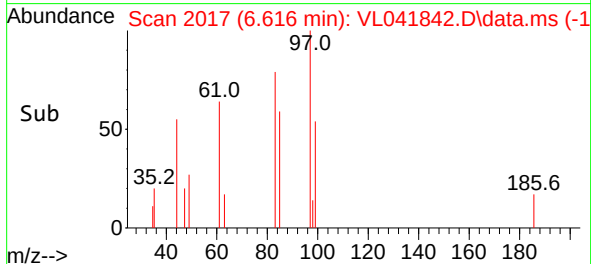
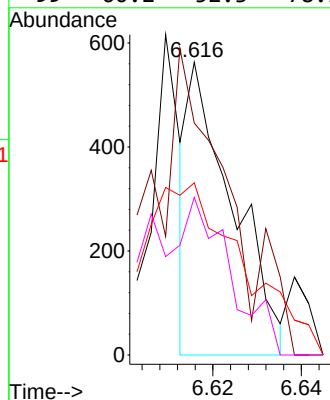
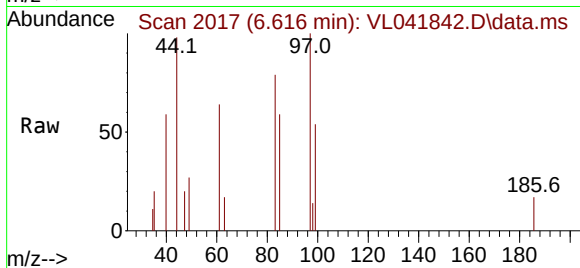
Ion Ratio Lower Upper

97 100

83 58.8 70.3 105.5#

85 41.7 41.5 62.3

99 60.2 52.3 78.5



#48

Dibromochloromethane

Concen: 0.055 ppbv

RT: 7.412 min Scan# 2263

Delta R.T. 0.003 min

Lab File: VL041842.D

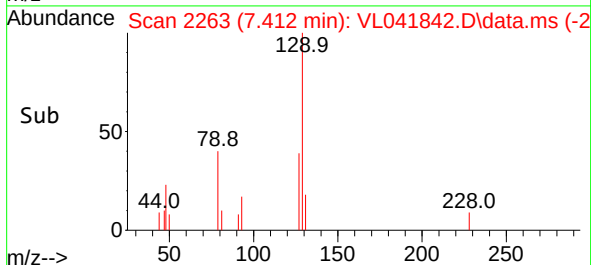
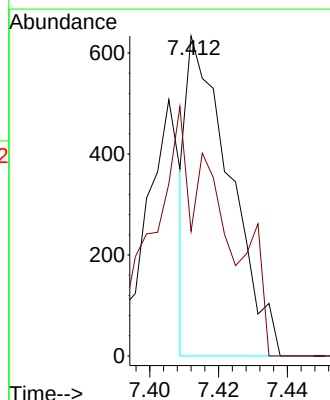
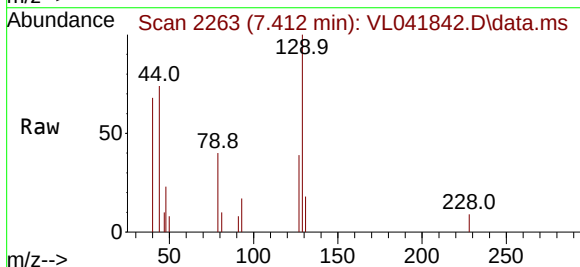
Acq: 07 Jan 2025 11:22

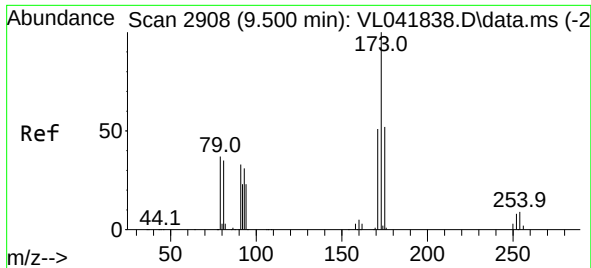
Tgt Ion: 129 Resp: 551

Ion Ratio Lower Upper

129 100

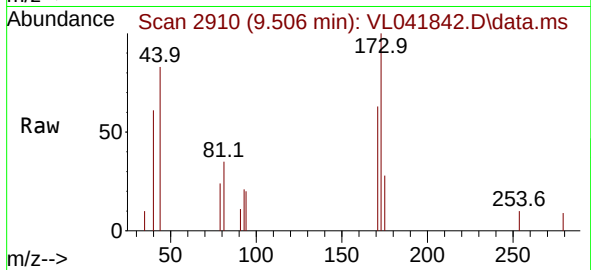
127 0.0 38.7 116.1#



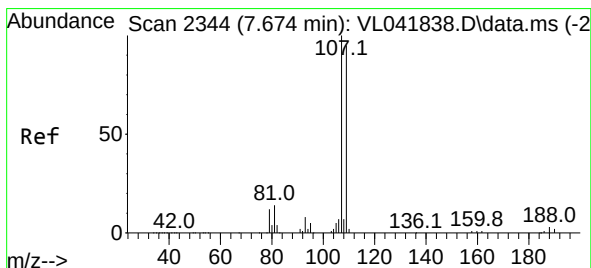
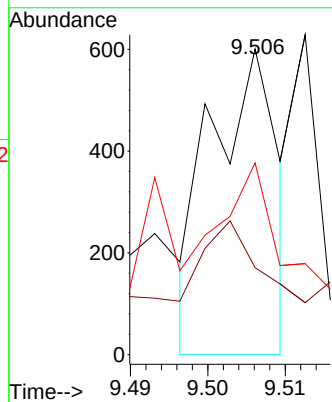
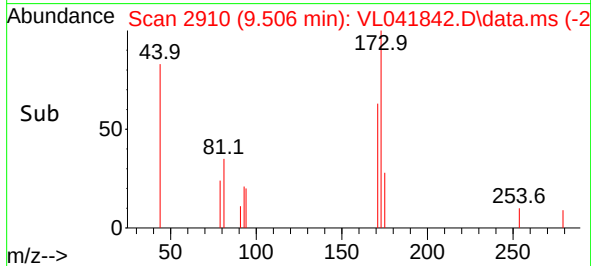


#49
Bromoform
Concen: 0.045 ppbv
RT: 9.506 min Scan# 2908
Delta R.T. 0.006 min
Lab File: VL041842.D
Acq: 07 Jan 2025 11:22

Instrument :
MSVOA_L
ClientSampleId :

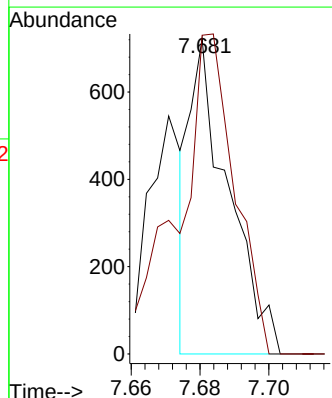
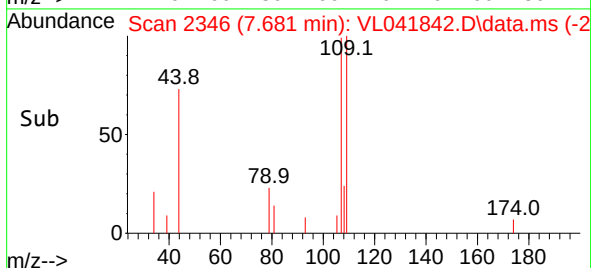
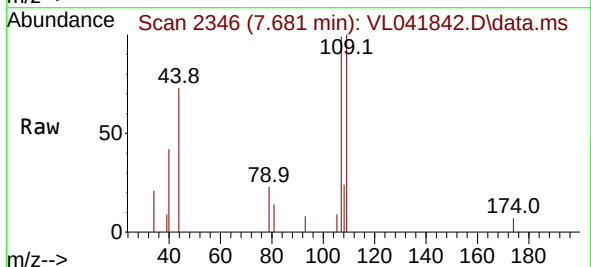


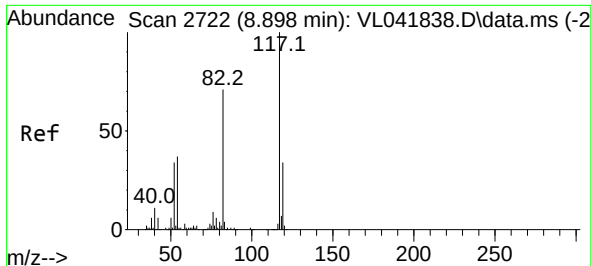
Tgt Ion:173 Resp: 359
Ion Ratio Lower Upper
173 100
175 80.8 39.5 59.3#
171 111.7 41.5 62.3#



#54
1,2-Dibromoethane
Concen: 0.058 ppbv
RT: 7.681 min Scan# 2346
Delta R.T. 0.006 min
Lab File: VL041842.D
Acq: 07 Jan 2025 11:22

Tgt Ion:107 Resp: 565
Ion Ratio Lower Upper
107 100
109 101.1 75.9 113.9

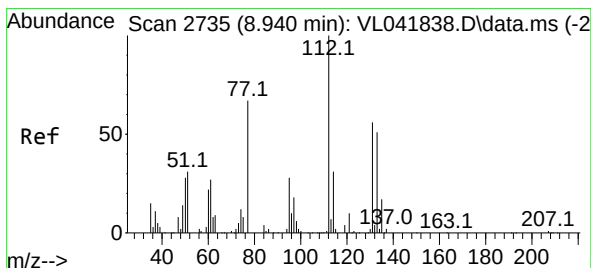
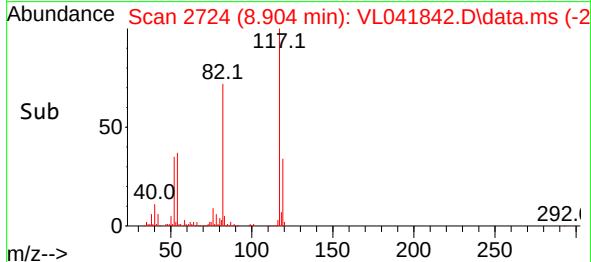
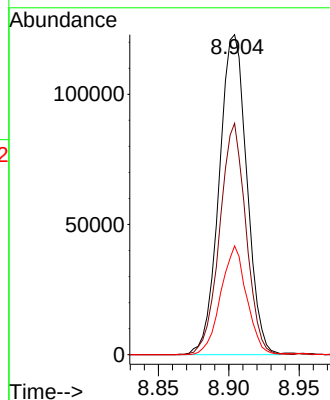
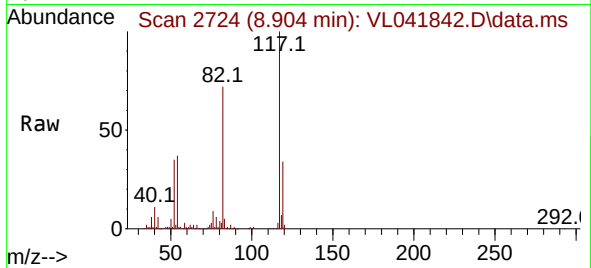




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 2724
Delta R.T. 0.006 min
Lab File: VL041842.D
Acq: 07 Jan 2025 11:22

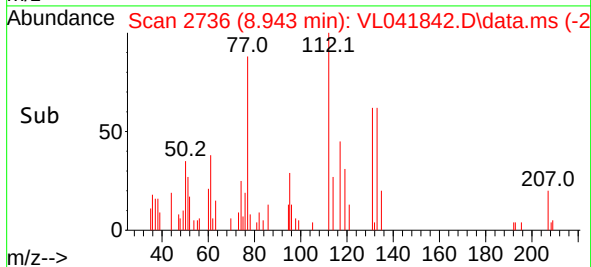
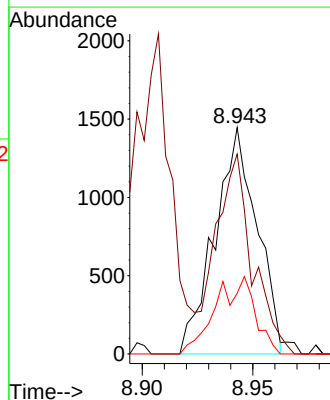
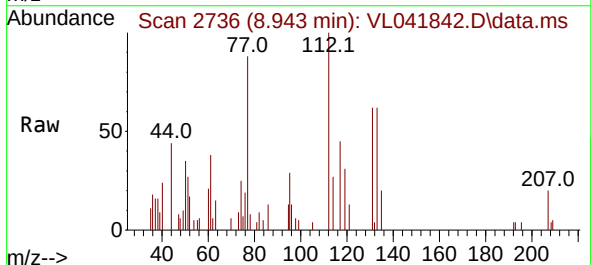
Instrument :
MSVOA_L
ClientSampleId :

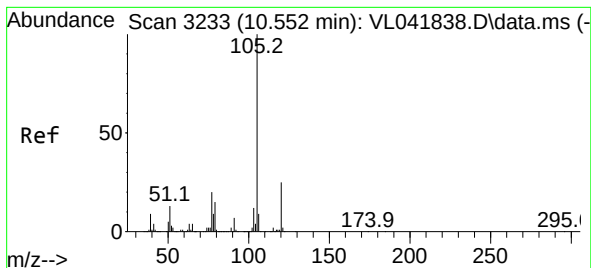
Tgt Ion:117 Resp: 168288
Ion Ratio Lower Upper
117 100
82 68.9 59.1 88.7
119 32.2 27.3 40.9



#57
Chlorobenzene
Concen: 0.109 ppbv
RT: 8.943 min Scan# 2736
Delta R.T. 0.003 min
Lab File: VL041842.D
Acq: 07 Jan 2025 11:22

Tgt Ion:112 Resp: 1918
Ion Ratio Lower Upper
112 100
77 80.3 55.1 82.7
114 26.8 28.3 34.5





#62

Isopropylbenzene

Concen: 0.070 ppbv

RT: 10.555 min Scan# 31

Delta R.T. 0.003 min

Lab File: VL041842.D

Acq: 07 Jan 2025 11:22

Instrument :

MSVOA_L

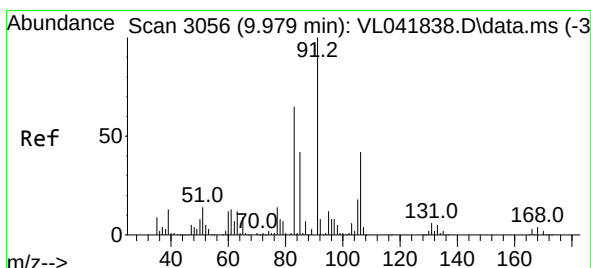
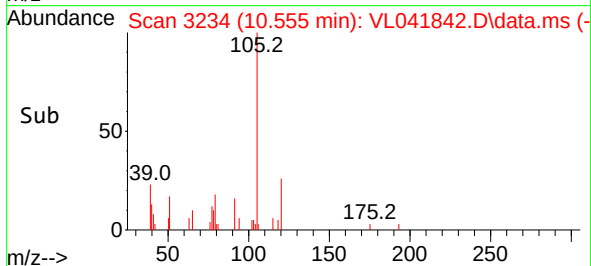
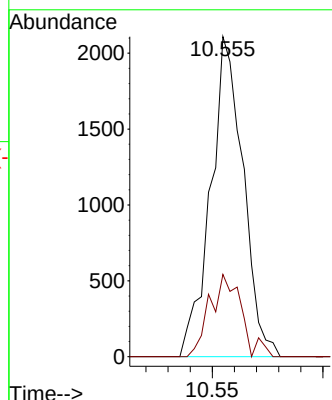
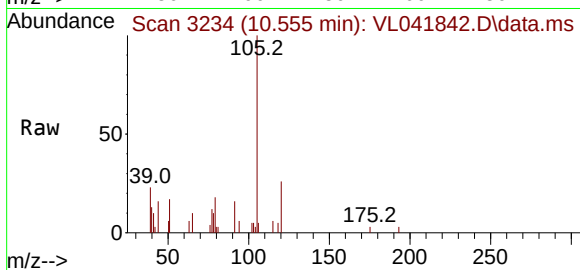
ClientSampleId :

Tgt Ion:105 Resp: 2153

Ion Ratio Lower Upper

105 100

120 25.0 20.4 30.6



#63

1,1,2,2-Tetrachloroethane

Concen: 0.098 ppbv

RT: 9.985 min Scan# 3058

Delta R.T. 0.006 min

Lab File: VL041842.D

Acq: 07 Jan 2025 11:22

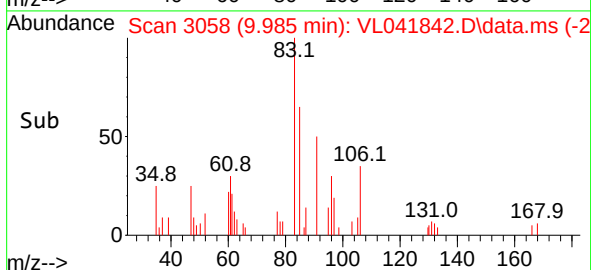
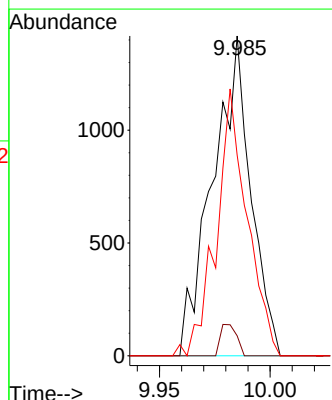
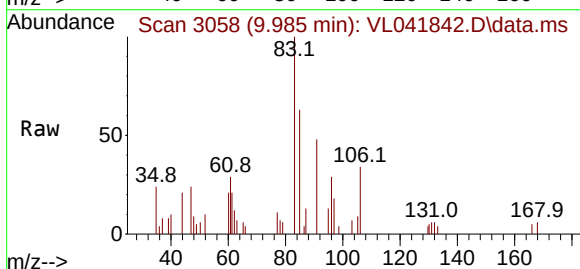
Tgt Ion: 83 Resp: 1698

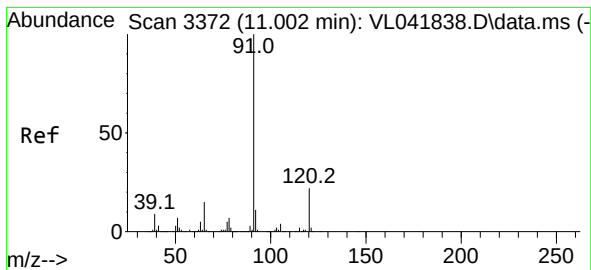
Ion Ratio Lower Upper

83 100

131 4.2 4.8 14.3#

85 67.4 31.9 95.9

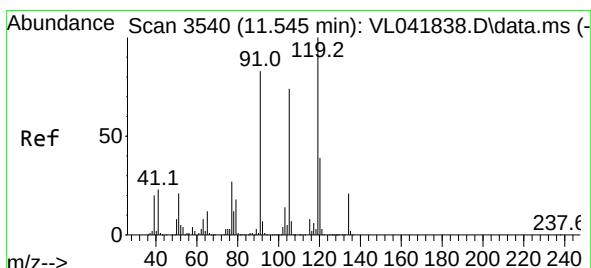
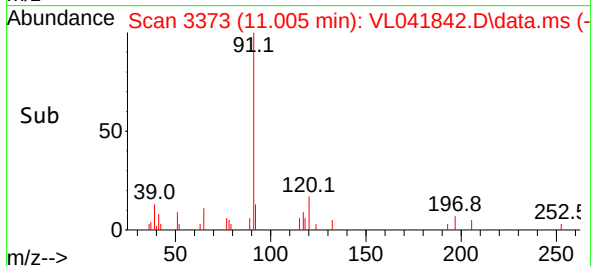
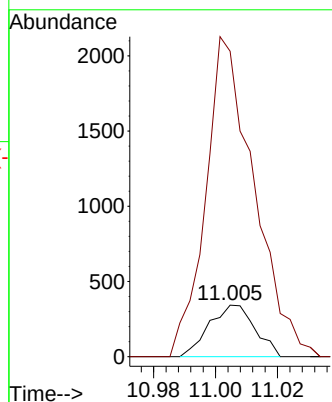
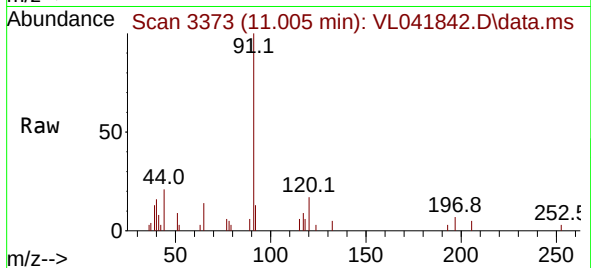




#64
n-propylbenzene
Concen: 0.044 ppbv
RT: 11.005 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL041842.D
Acq: 07 Jan 2025 11:22

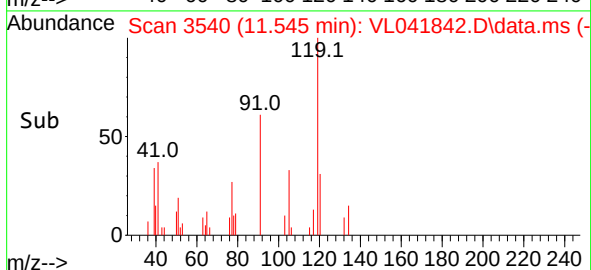
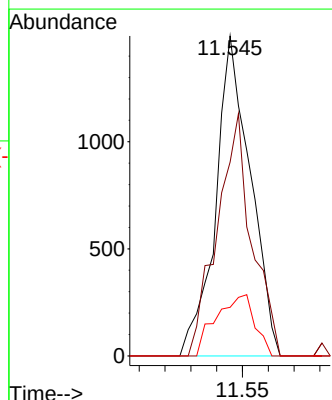
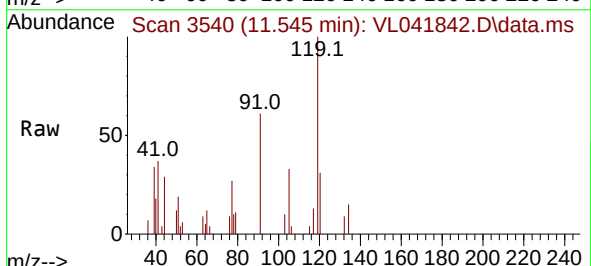
Instrument :
MSVOA_L
ClientSampleId :

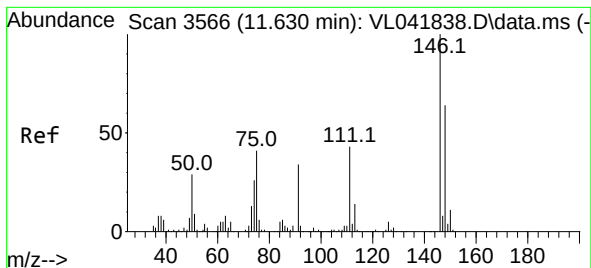
Tgt Ion:120 Resp: 352
Ion Ratio Lower Upper
120 100
91 656.3 382.1 573.1#



#65
tert-Butylbenzene
Concen: 0.050 ppbv
RT: 11.545 min Scan# 3540
Delta R.T. -0.000 min
Lab File: VL041842.D
Acq: 07 Jan 2025 11:22

Tgt Ion:119 Resp: 1397
Ion Ratio Lower Upper
119 100
91 75.5 68.0 102.0
134 21.3 16.2 24.4





#66

Benzyl Chloride

Concen: 0.057 ppbv

RT: 11.636 min Scan# 3566

Delta R.T. 0.006 min

Lab File: VL041842.D

Acq: 07 Jan 2025 11:22

Instrument :

MSVOA_L

ClientSampleId :

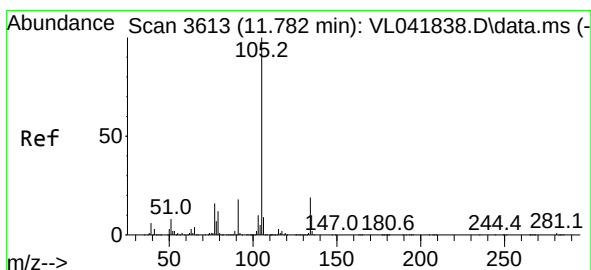
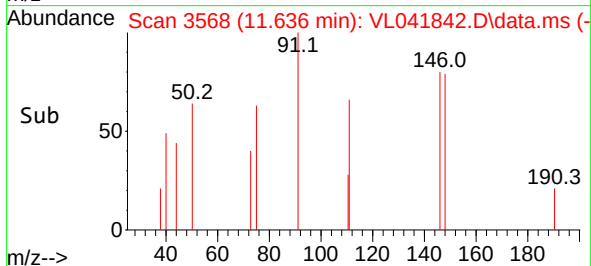
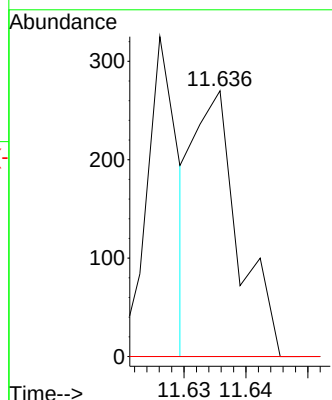
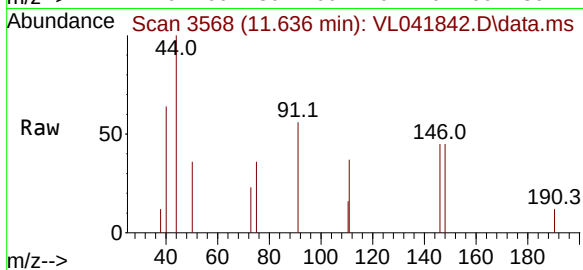
Tgt Ion: 91 Resp: 132

Ion Ratio Lower Upper

91 100

126 0.0 12.1 18.1#

128 0.0 4.3 6.5#



#67

sec-Butylbenzene

Concen: 0.048 ppbv

RT: 11.781 min Scan# 3613

Delta R.T. -0.000 min

Lab File: VL041842.D

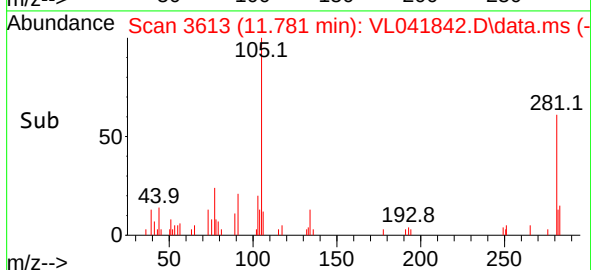
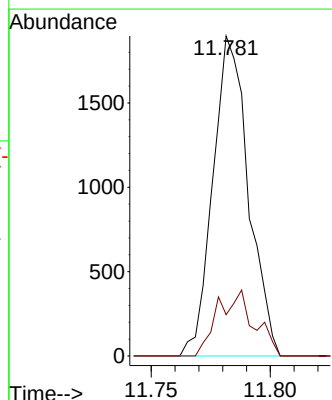
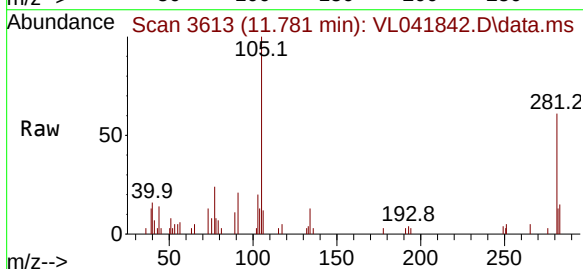
Acq: 07 Jan 2025 11:22

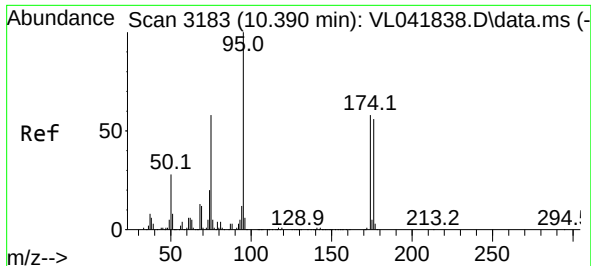
Tgt Ion: 105 Resp: 1966

Ion Ratio Lower Upper

105 100

134 21.1 14.6 22.0

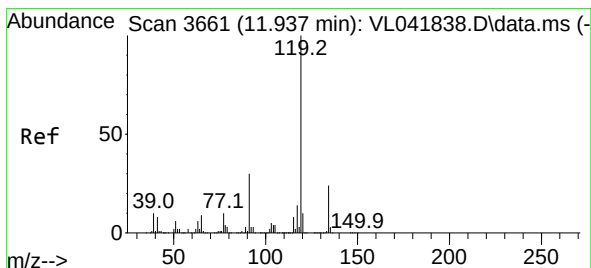
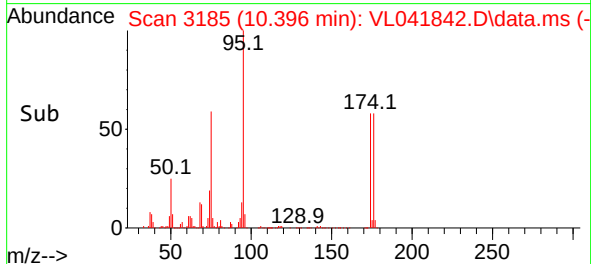
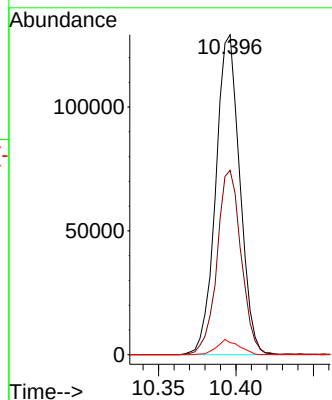
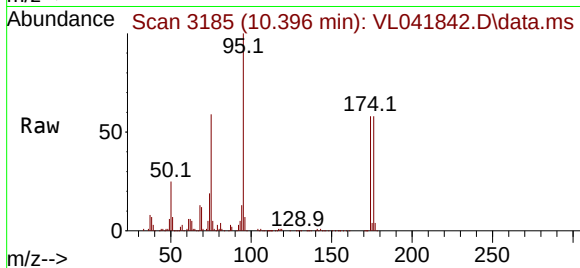




#68
1-Bromo-4-Fluorobenzene
Concen: 9.681 ppbv
RT: 10.396 min Scan# 3185
Delta R.T. 0.006 min
Lab File: VL041842.D
Acq: 07 Jan 2025 11:22

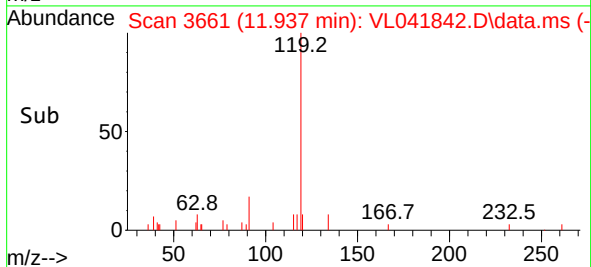
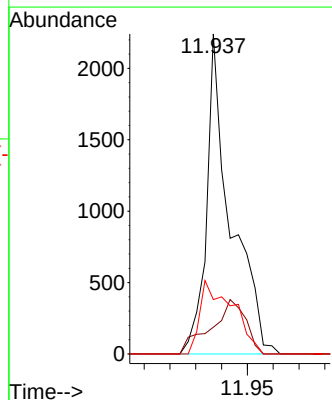
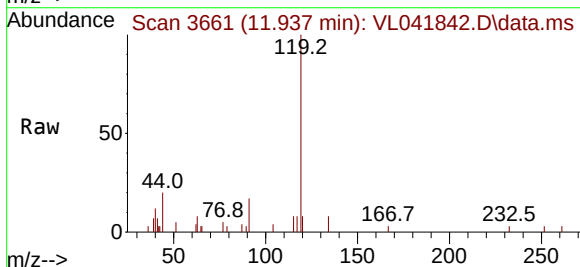
Instrument :
MSVOA_L
ClientSampleId :

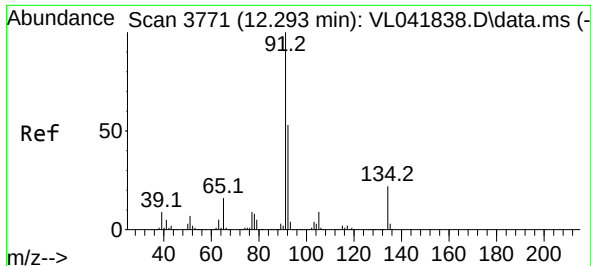
Tgt Ion: 95 Resp: 139535
Ion Ratio Lower Upper
95 100
174 58.4 47.6 71.4
175 4.4 3.8 5.6



#69
p-Isopropyltoluene
Concen: 0.045 ppbv
RT: 11.937 min Scan# 3661
Delta R.T. -0.000 min
Lab File: VL041842.D
Acq: 07 Jan 2025 11:22

Tgt Ion: 119 Resp: 1453
Ion Ratio Lower Upper
119 100
134 24.4 19.4 29.2
91 31.5 24.0 36.0

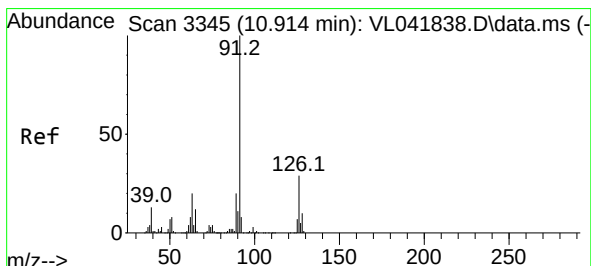
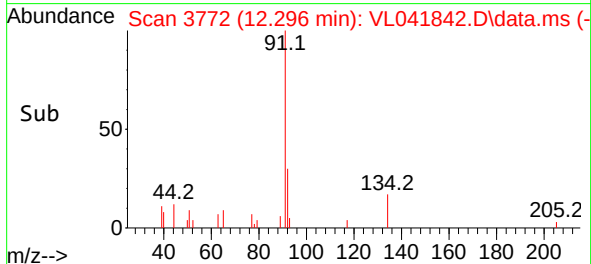
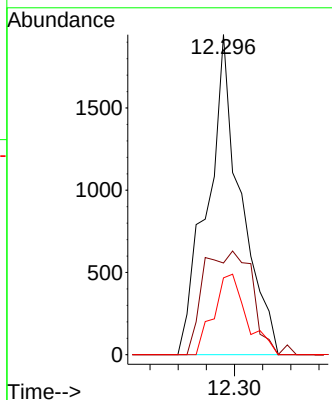
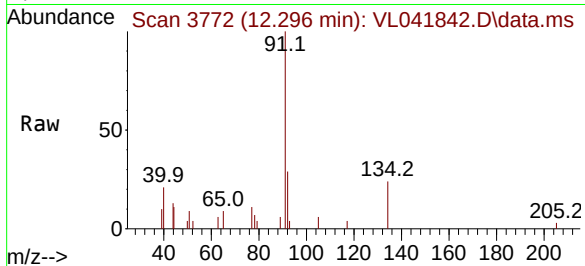




#70
n-Butylbenzene
Concen: 0.050 ppbv
RT: 12.296 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL041842.D
Acq: 07 Jan 2025 11:22

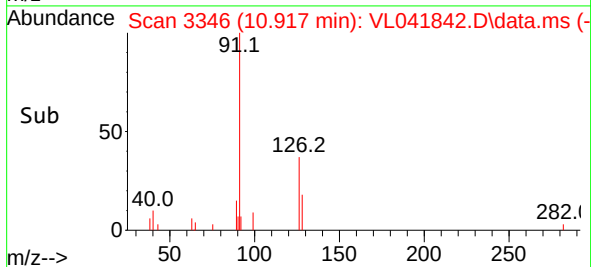
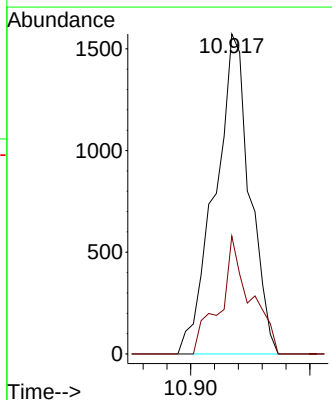
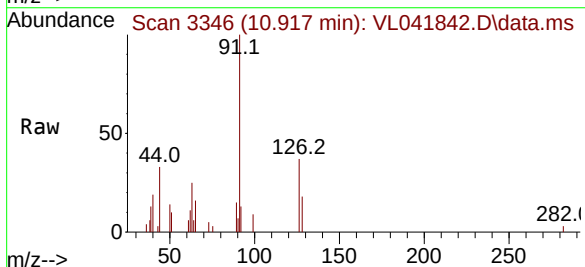
Instrument :
MSVOA_L
ClientSampleId :

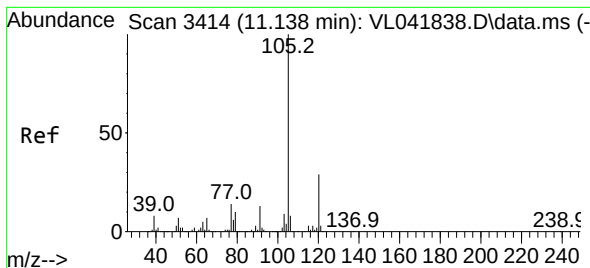
Tgt Ion: 91 Resp: 1597
Ion Ratio Lower Upper
91 100
92 48.0 42.8 64.2
134 24.9 17.8 26.6



#71
2-Chlorotoluene
Concen: 0.071 ppbv
RT: 10.917 min Scan# 3346
Delta R.T. 0.003 min
Lab File: VL041842.D
Acq: 07 Jan 2025 11:22

Tgt Ion: 91 Resp: 1600
Ion Ratio Lower Upper
91 100
126 32.1 11.6 46.6

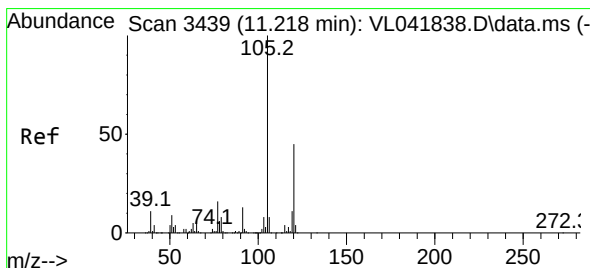
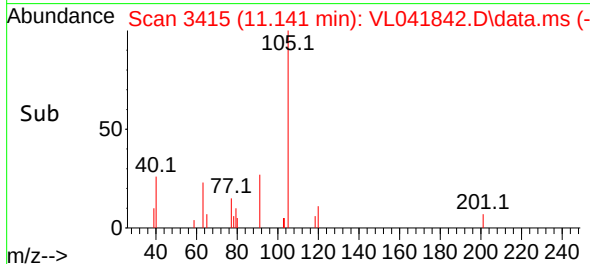
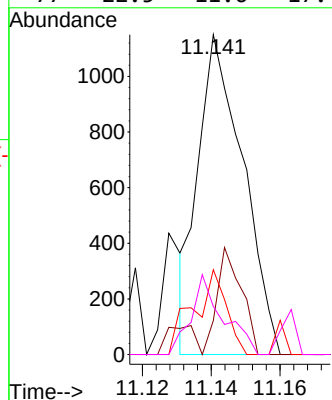
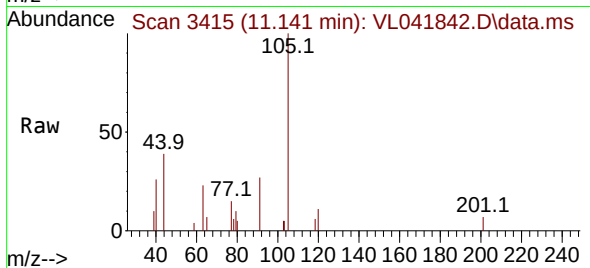




#72
4-Ethyltoluene
Concen: 0.044 ppbv
RT: 11.141 min Scan# 3414
Delta R.T. 0.003 min
Lab File: VL041842.D
Acq: 07 Jan 2025 11:22

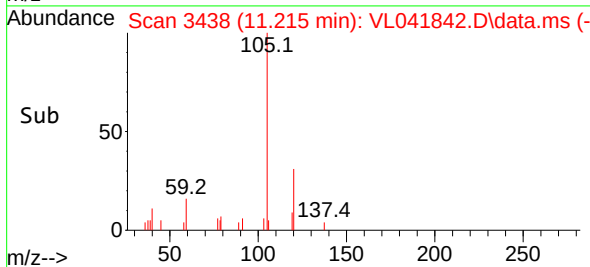
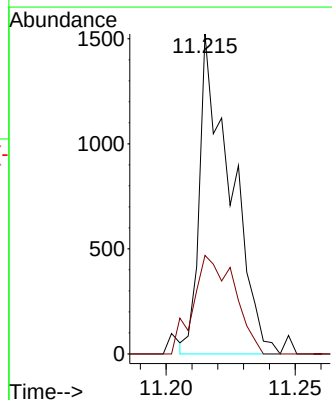
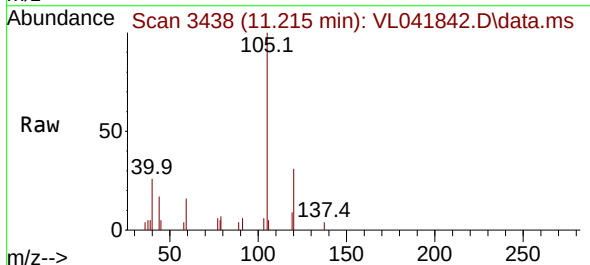
Instrument :
MSVOA_L
ClientSampleId :

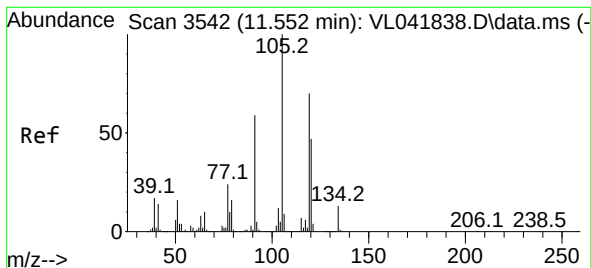
Tgt Ion:105 Resp: 1042
Ion Ratio Lower Upper
105 100
120 23.8 23.4 35.2
91 21.7 10.8 16.2#
77 22.5 11.6 17.4#



#73
1,3,5-Trimethylbenzene
Concen: 0.061 ppbv
RT: 11.215 min Scan# 3438
Delta R.T. -0.003 min
Lab File: VL041842.D
Acq: 07 Jan 2025 11:22

Tgt Ion:105 Resp: 1270
Ion Ratio Lower Upper
105 100
120 30.8 35.9 53.9#





#74

1,2,4-Trimethylbenzene

Concen: 0.044 ppbv

RT: 11.552 min Scan# 3542

Delta R.T. -0.000 min

Lab File: VL041842.D

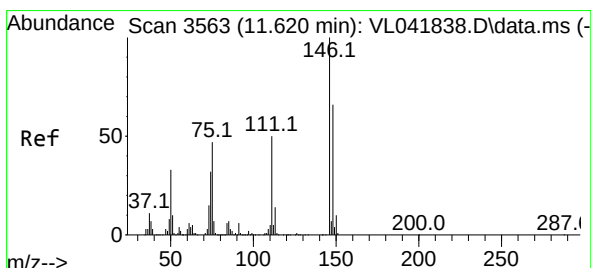
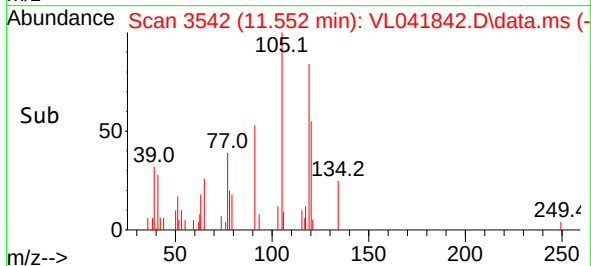
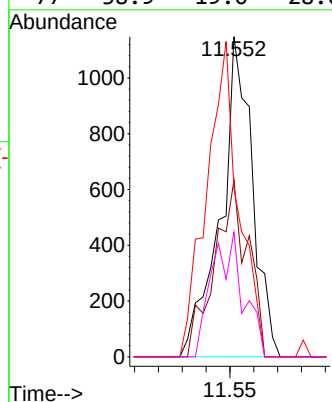
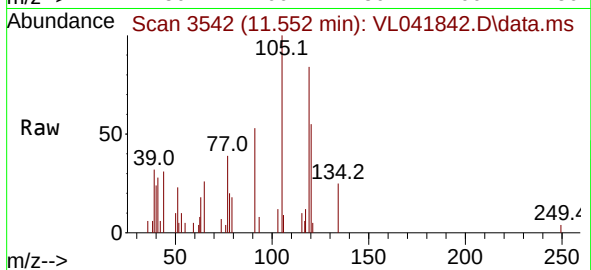
Acq: 07 Jan 2025 11:22

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:	105	Resp:	1059
Ion	Ratio	Lower	Upper
105	100		
120	55.2	37.4	56.0
91	52.5	47.4	71.2
77	38.9	19.0	28.6



#75

1,3-Dichlorobenzene

Concen: 0.065 ppbv

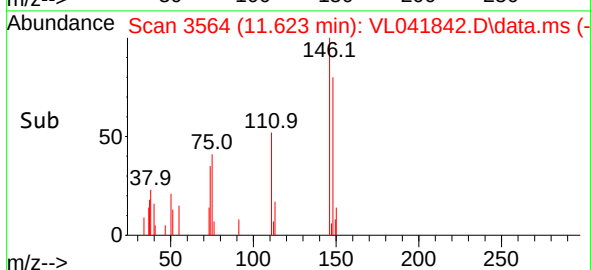
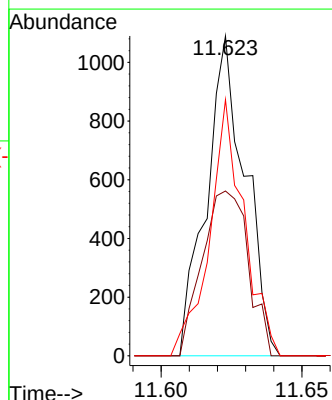
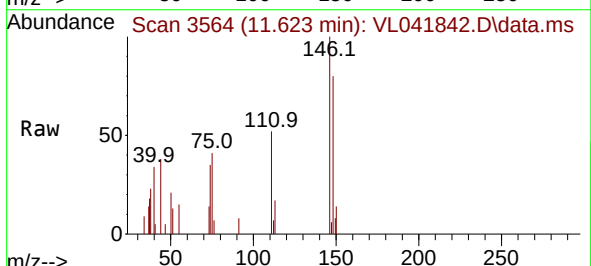
RT: 11.623 min Scan# 3564

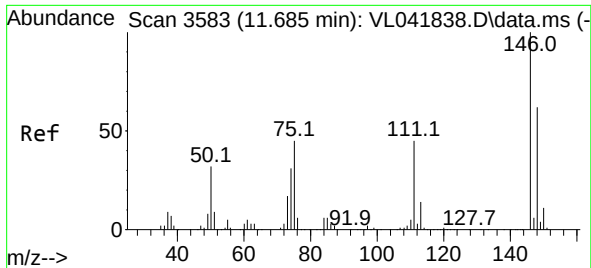
Delta R.T. 0.003 min

Lab File: VL041842.D

Acq: 07 Jan 2025 11:22

Tgt Ion:	146	Resp:	1045
Ion	Ratio	Lower	Upper
146	100		
111	61.1	24.1	72.2
148	70.5	32.0	96.0

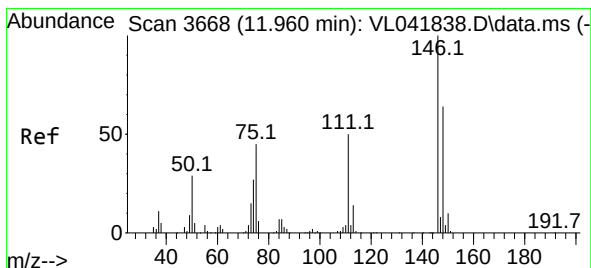
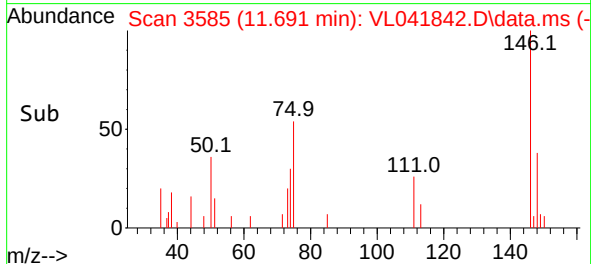
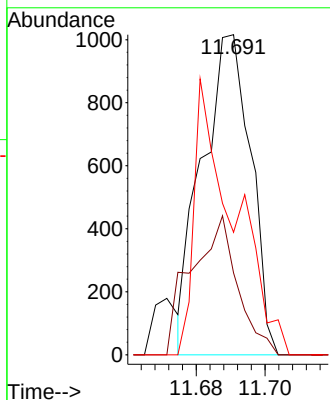
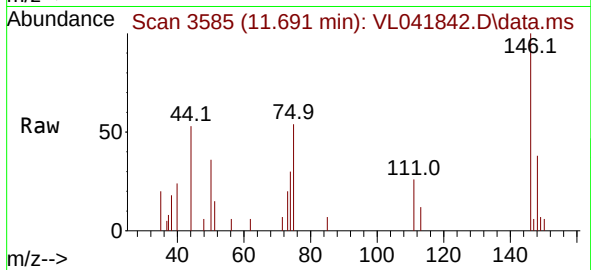




#76
1,4-Dichlorobenzene
Concen: 0.064 ppbv
RT: 11.691 min Scan# 3585
Delta R.T. 0.006 min
Lab File: VL041842.D
Acq: 07 Jan 2025 11:22

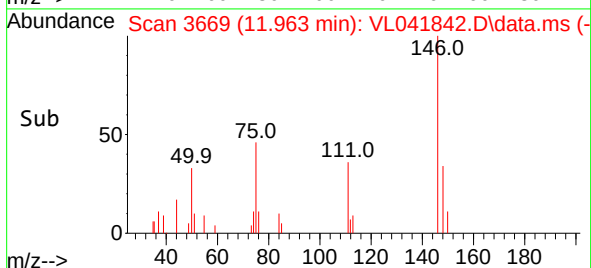
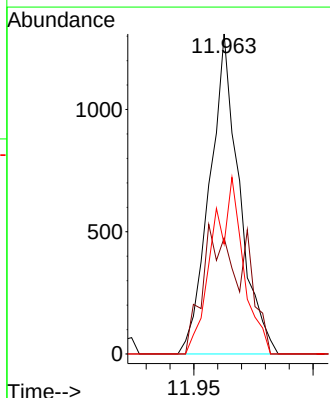
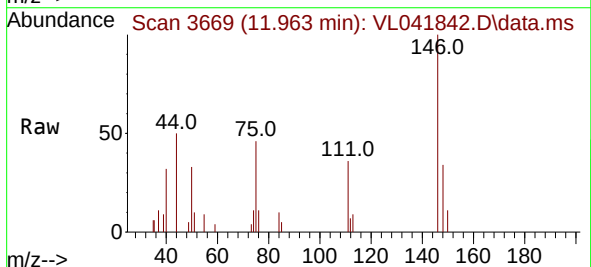
Instrument :
MSVOA_L
ClientSampleId :

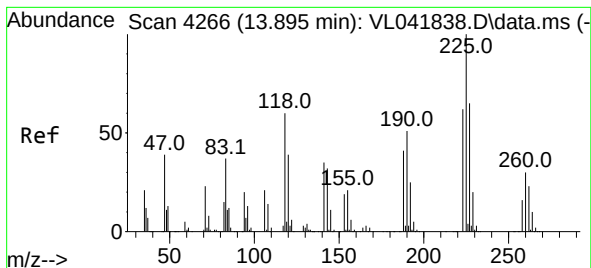
Tgt Ion:146 Resp: 1001
Ion Ratio Lower Upper
146 100
111 41.2 23.2 69.6
148 70.2 32.1 96.3



#77
1,2-Dichlorobenzene
Concen: 0.067 ppbv
RT: 11.963 min Scan# 3669
Delta R.T. 0.003 min
Lab File: VL041842.D
Acq: 07 Jan 2025 11:22

Tgt Ion:146 Resp: 1136
Ion Ratio Lower Upper
146 100
111 55.5 24.7 74.1
148 56.9 31.5 94.5





#78

Hexachloro-1,3-Butadiene

Concen: 0.103 ppbv

RT: 13.901 min Scan# 4153

Delta R.T. 0.006 min

Lab File: VL041842.D

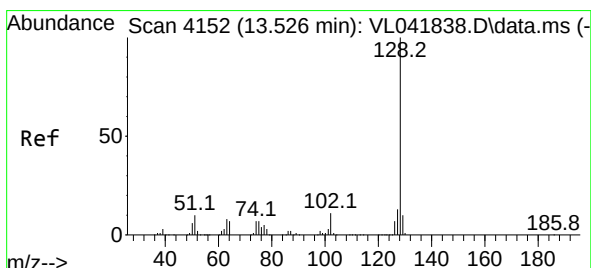
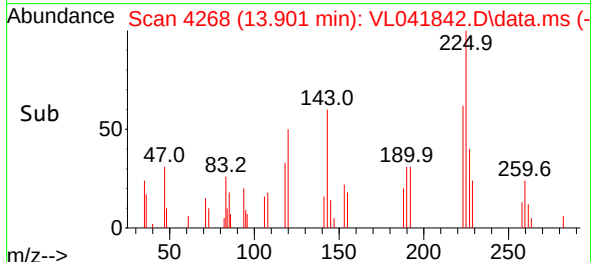
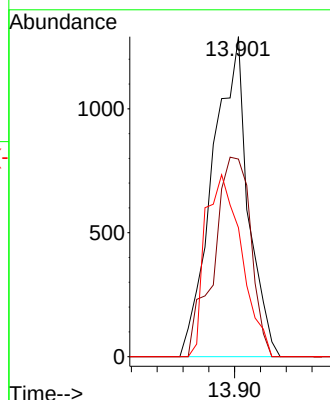
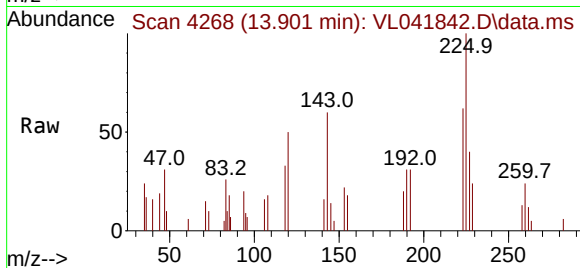
Acq: 07 Jan 2025 11:22

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:225	Resp:	1230
Ion Ratio	Lower	Upper
225	100	
223	65.1	50.4 75.6
227	58.2	51.2 76.8



#79

Naphthalene

Concen: 0.060 ppbv

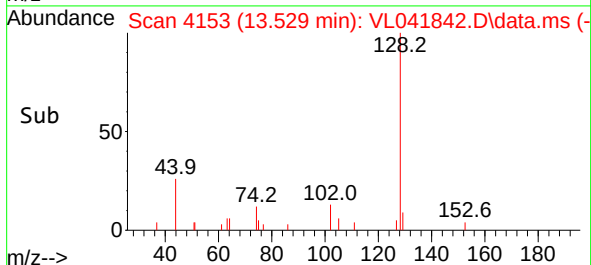
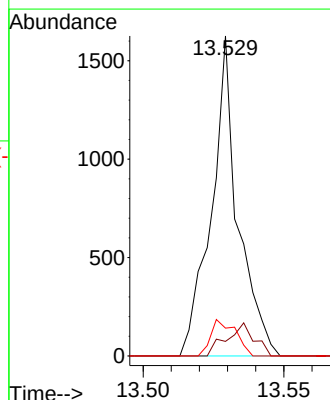
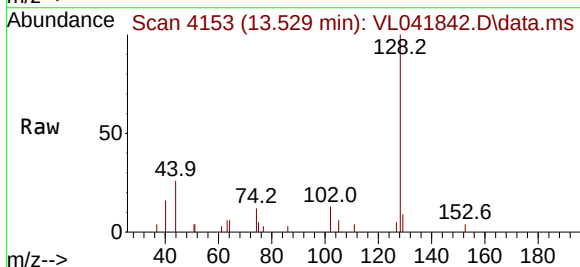
RT: 13.529 min Scan# 4153

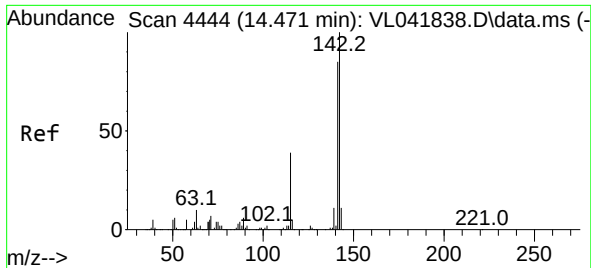
Delta R.T. 0.003 min

Lab File: VL041842.D

Acq: 07 Jan 2025 11:22

Tgt Ion:128	Resp:	1063
Ion Ratio	Lower	Upper
128	100	
127	4.6	10.5 15.7#
129	8.7	8.2 12.4

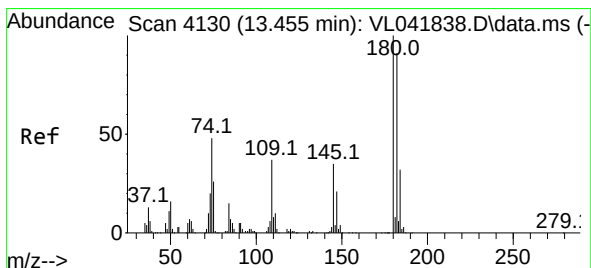
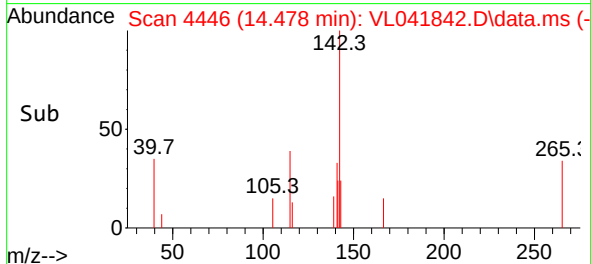
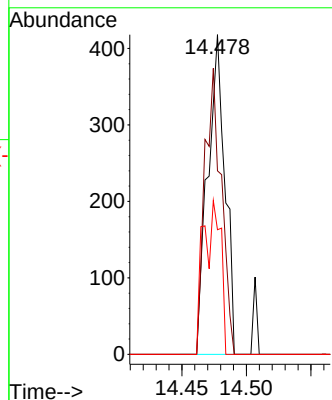
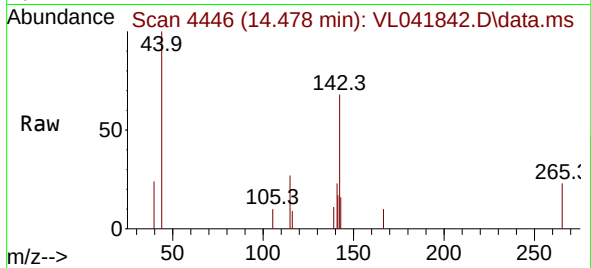




#80
Naphthalene, 2-methyl-
Concen: 0.062 ppbv
RT: 14.478 min Scan# 4444
Delta R.T. 0.006 min
Lab File: VL041842.D
Acq: 07 Jan 2025 11:22

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:	142	Resp:	408
Ion	Ratio	Lower	Upper
142	100		
141	81.1	67.8	101.6
115	46.6	32.7	49.1



#81
1,2,4-Trichlorobenzene
Concen: 0.067 ppbv
RT: 13.455 min Scan# 4130
Delta R.T. -0.000 min
Lab File: VL041842.D
Acq: 07 Jan 2025 11:22

Tgt Ion:	180	Resp:	662
Ion	Ratio	Lower	Upper
180	100		
182	116.9	75.9	113.9#
184	26.4	24.8	37.2

