

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081822\
 Data File : VL039571.D
 Acq On : 18 Aug 2022 23:04
 Operator : SY/AP
 Sample : N3980-14 LOQ 0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 19 03:06:49 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081722AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 17 12:06:24 2022
 QLast Update : Wed Aug 17 12:06:24 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.208	49	913114	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	2528573	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.474	117	2322749	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.780	95	1798032	10.283	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.800%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.751	85	84119	0.685	ppbv	95
3) Chlorodifluoromethane	2.697	51	64907	0.593	ppbv	100
4) Chloromethane	2.835	50	37591	0.574	ppbv	89
5) Vinyl Chloride	2.941	62	30932	0.548	ppbv	95
6) Bromomethane	3.144	94	12639	0.547	ppbv #	78
7) Chloroethane	3.214	64	11578	0.576	ppbv	98
8) Dichlorotetrafluoroethane	2.880	85	71568	0.543	ppbv	86
9) Propene	2.719	41	31830	0.638	ppbv	93
10) Heptane	7.584	43	48441	0.418	ppbv #	84
11) Trichlorofluoromethane	3.584	101	75854	0.563	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.082	101	56323	0.566	ppbv	97
13) Ethanol	3.272	45	1025	0.286	ppbv #	1
14) Bromoethene	3.391	108	19555	0.481	ppbv #	77
15) Acetone	3.500	43	52009	0.504	ppbv #	78
16) 1,3-Butadiene	3.005	39	27815	0.519	ppbv	99
18) 1,1-Dichloroethene	3.902	96	25359	0.565	ppbv	93
19) Isopropyl Alcohol	3.610	45	22800	0.452	ppbv #	100
20) Methylene Chloride	3.954	84	27818	0.662	ppbv #	89
21) Allyl Chloride	4.015	41	30659	0.457	ppbv #	78
23) Vinyl Acetate	4.652	43	17752	0.342	ppbv #	94
24) 1,1-Dichloroethane	4.581	63	49834	0.546	ppbv #	97
25) Ethyl Acetate	5.227	43	103219	0.469	ppbv #	92
26) Hexane	5.224	57	43416	0.481	ppbv #	77
27) Carbon Disulfide	4.140	76	43999	0.457	ppbv #	80
28) Methyl tert-Butyl Ether	4.613	73	27002	0.340	ppbv #	67
29) Chloroform	5.285	83	79139	0.561	ppbv	97
30) Cyclohexane	6.613	84	22036	0.294	ppbv #	100
31) cis-1,2-Dichloroethene	5.095	61	36794	0.422	ppbv #	84
32) 1,1,1-Trichloroethane	6.018	97	71965	0.543	ppbv	97
34) 2-Butanone	4.815	43	55117	0.434	ppbv	99
35) Carbon Tetrachloride	6.507	117	43692	0.307	ppbv	98
36) Benzene	6.381	78	89302	0.463	ppbv #	93
37) 1,2-Dichloroethane	5.819	62	51924	0.485	ppbv #	94
38) Trichloroethene	7.301	130	49540	0.473	ppbv	94
39) 1,2-Dichloropropane	7.085	63	36366	0.504	ppbv	98
41) Tetrahydrofuran	5.594	42	19997	0.267	ppbv #	58
42) Bromodichloromethane	7.259	83	70737	0.483	ppbv	92
43) Methyl Methacrylate	7.491	69	20977	0.301	ppbv #	58
44) 2,2,4-Trimethylpentane	7.336	57	89597	0.276	ppbv #	43
45) t-1,3-Dichloropropene	8.712	75	8317	0.136	ppbv	99
46) cis-1,3-Dichloropropene	8.153	75	28718	0.340	ppbv #	85
47) 1,1,2-Trichloroethane	8.915	97	13650	0.165	ppbv	84
48) Dibromochloromethane	9.709	129	25073	0.204	ppbv #	1

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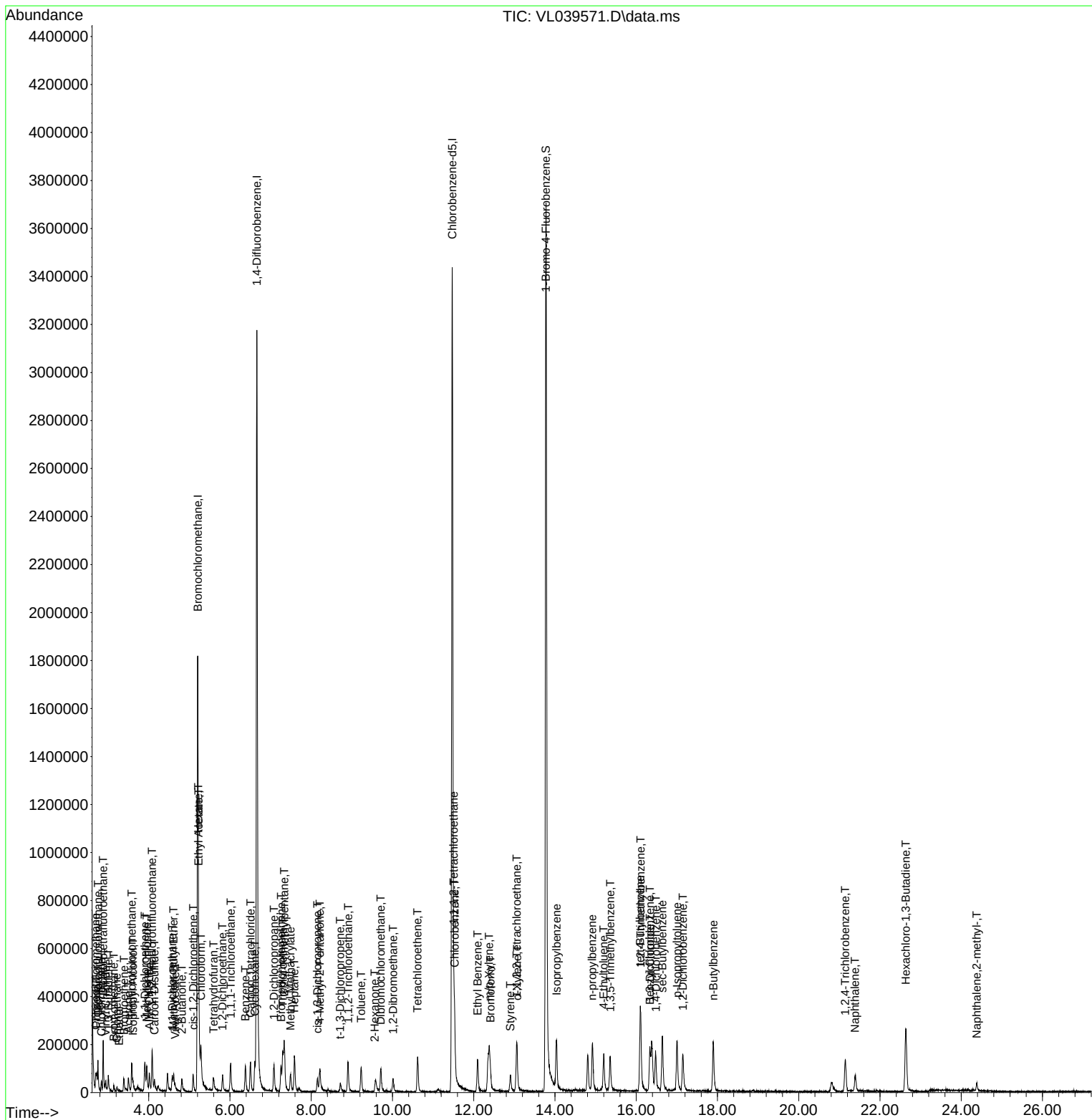
Instrument :
 MSVOA_L
 ClientSampleId :

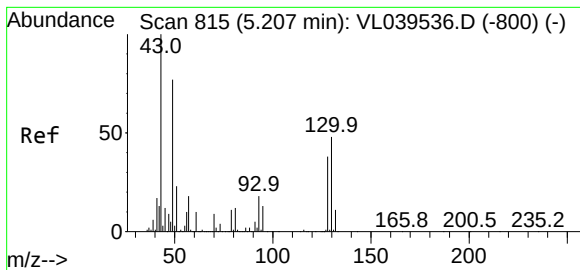
Quant Time: Aug 19 03:06:49 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081722AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 17 12:06:24 2022
 QLast Update : Wed Aug 17 12:06:24 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
49) Bromoform	12.413	173	26410	0.259	ppbv	#	100
50) 4-Methyl-2-Pentanone	8.211	43	68476	0.350	ppbv		95
51) 2-Hexanone	9.561	43	5346	0.037	ppbv	#	31
52) Tetrachloroethene	10.619	164	23435	0.310	ppbv		98
53) Toluene	9.230	91	78395	0.363	ppbv		97
54) 1,2-Dibromoethane	10.015	107	22812	0.242	ppbv		92
56) 1,1,1,2-Tetrachloroethane	11.510	131	53374	0.558	ppbv	#	1
57) Chlorobenzene	11.532	112	93173	0.534	ppbv	#	90
58) Ethyl Benzene	12.098	91	108820	0.405	ppbv		97
59) m/p-Xylene	12.381	91	84923	0.351	ppbv	#	100
60) o-Xylene	13.069	91	98193	0.423	ppbv		98
61) Styrene	12.899	104	39457	0.319	ppbv		95
62) Isopropylbenzene	14.037	105	166197	0.474	ppbv		100
63) 1,1,2,2-Tetrachloroethane	13.060	83	60503	0.519	ppbv		97
64) n-propylbenzene	14.918	120	11362	0.124	ppbv	#	1
65) tert-Butylbenzene	16.098	119	79381	0.254	ppbv	#	14
66) Benzyl Chloride	16.339	91	1852	0.069	ppbv	#	39
67) sec-Butylbenzene	16.641	105	221360	0.501	ppbv		99
69) p-Isopropyltoluene	17.008	119	71588	0.195	ppbv	#	48
70) n-Butylbenzene	17.902	91	69116	0.189	ppbv	#	15
72) 4-Ethyltoluene	15.201	105	115045	0.422	ppbv	#	100
73) 1,3,5-Trimethylbenzene	15.362	105	99886	0.401	ppbv		99
74) 1,2,4-Trimethylbenzene	16.111	105	132970	0.479	ppbv		97
75) 1,3-Dichlorobenzene	16.336	146	80858	0.480	ppbv		93
76) 1,4-Dichlorobenzene	16.484	146	76807	0.455	ppbv		92
77) 1,2-Dichlorobenzene	17.149	146	42496	0.257	ppbv	#	14
78) Hexachloro-1,3-Butadiene	22.638	225	21433	0.163	ppbv	#	100
79) Naphthalene	21.384	128	24058	0.122	ppbv	#	93
80) Naphthalene,2-methyl-	24.381	142	18392	0.236	ppbv	#	100
81) 1,2,4-Trichlorobenzene	21.146	180	54911	0.417	ppbv	#	100

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

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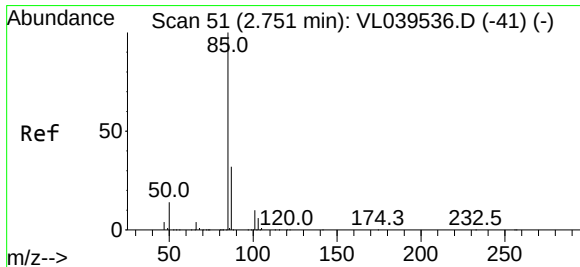
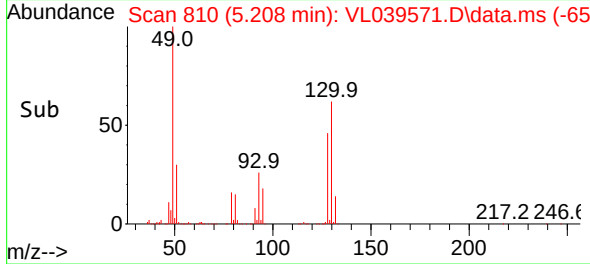
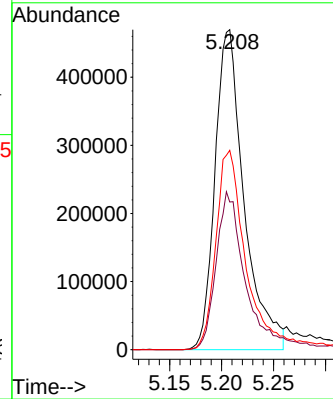
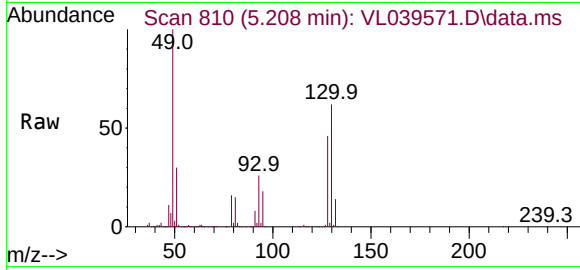




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.208 min Scan# 81
 Delta R.T. 0.001 min
 Lab File: VL039571.D
 Acq: 18 Aug 2022 23:04

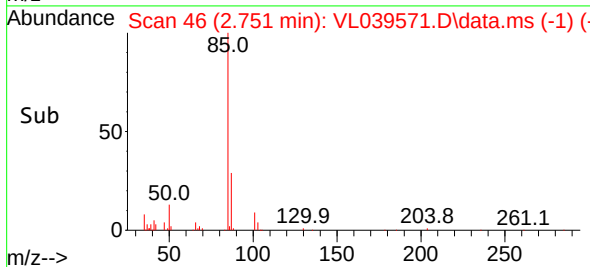
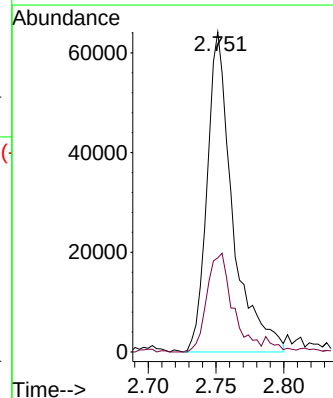
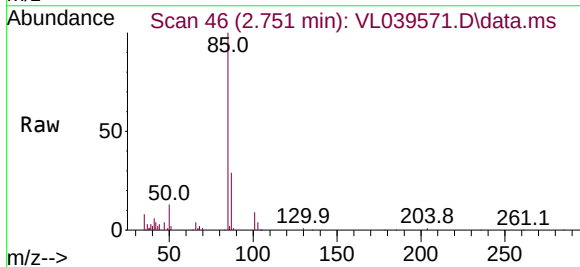
Instrument :
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 ClientSampleId :

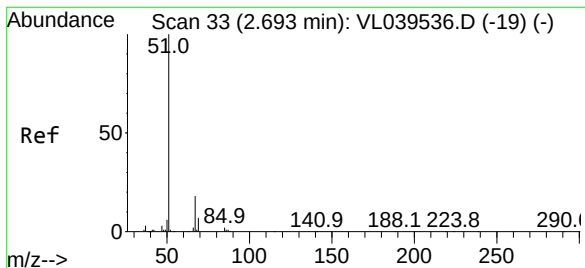
Tgt Ion: 49 Resp: 913114
 Ion Ratio Lower Upper
 49 100
 128 52.7 25.7 77.0
 130 68.6 31.6 95.0



#2
 Dichlorodifluoromethane
 Concen: 0.685 ppbv
 RT: 2.751 min Scan# 46
 Delta R.T. 0.001 min
 Lab File: VL039571.D
 Acq: 18 Aug 2022 23:04

Tgt Ion: 85 Resp: 84119
 Ion Ratio Lower Upper
 85 100
 87 29.4 25.9 38.9

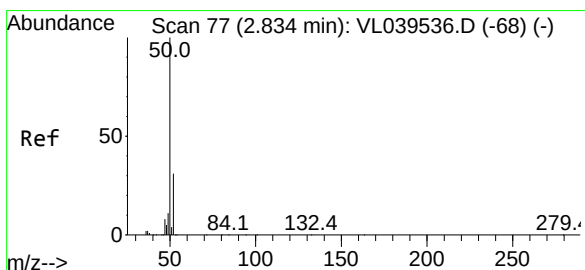
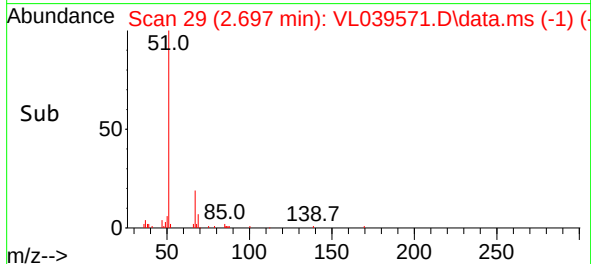
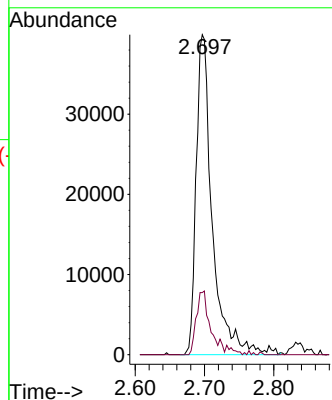
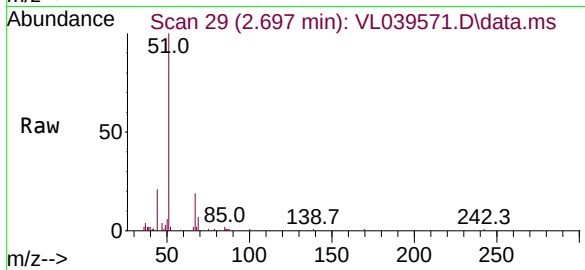




#3
 Chlorodifluoromethane
 Concen: 0.593 ppbv
 RT: 2.697 min Scan# 29
 Delta R.T. 0.004 min
 Lab File: VL039571.D
 Acq: 18 Aug 2022 23:04

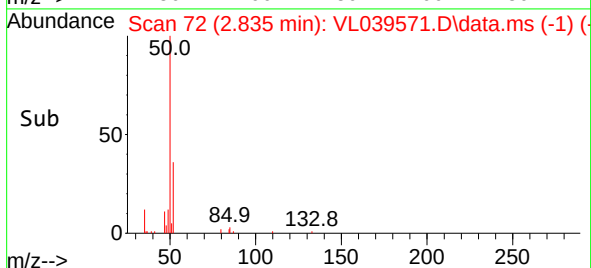
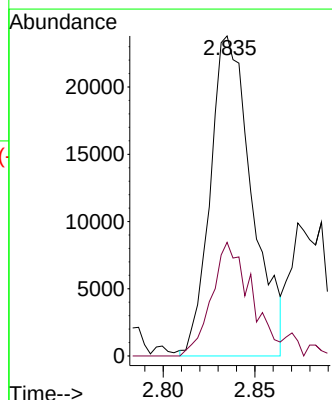
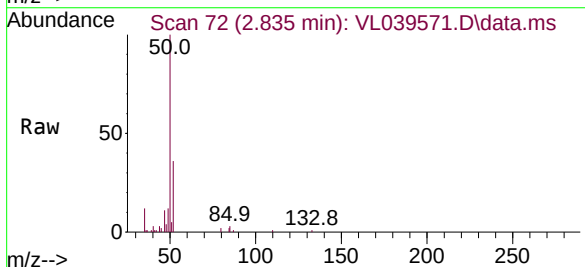
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 ClientSampleId :

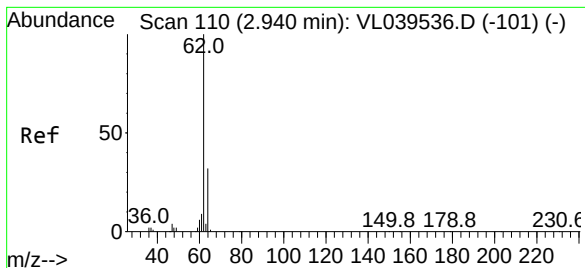
Tgt Ion: 51 Resp: 64907
 Ion Ratio Lower Upper
 51 100
 67 18.2 14.7 22.1



#4
 Chloromethane
 Concen: 0.574 ppbv
 RT: 2.835 min Scan# 72
 Delta R.T. 0.001 min
 Lab File: VL039571.D
 Acq: 18 Aug 2022 23:04

Tgt Ion: 50 Resp: 37591
 Ion Ratio Lower Upper
 50 100
 52 36.1 24.3 36.5

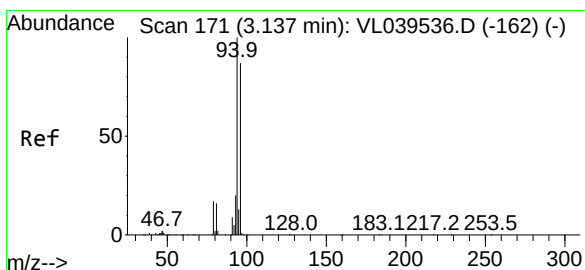
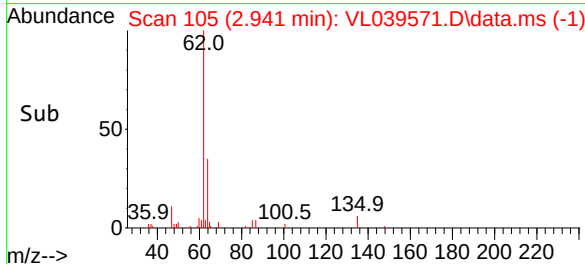
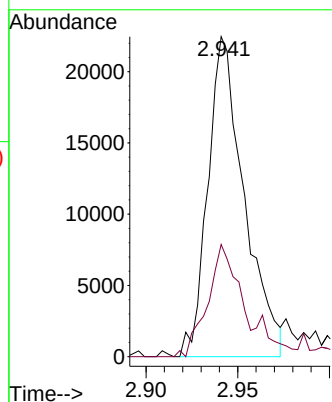
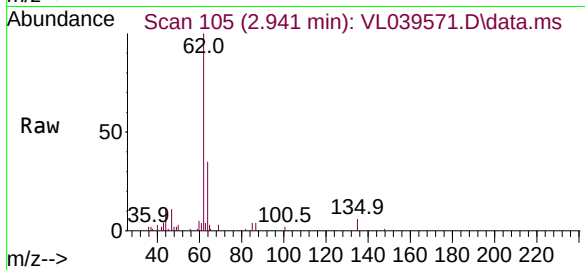




#5
 Vinyl Chloride
 Concen: 0.548 ppbv
 RT: 2.941 min Scan# 110
 Delta R.T. 0.001 min
 Lab File: VL039571.D
 Acq: 18 Aug 2022 23:04

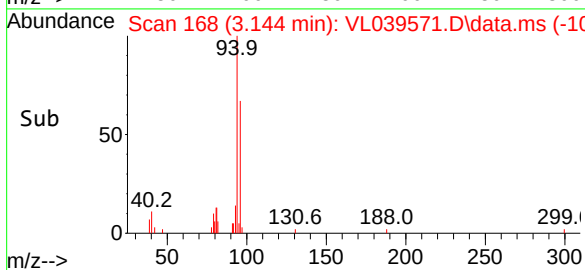
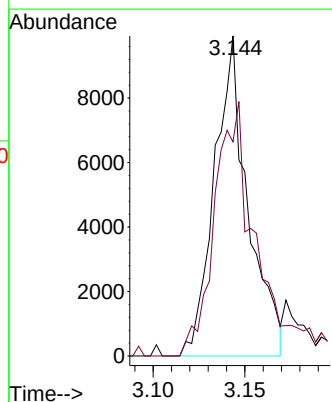
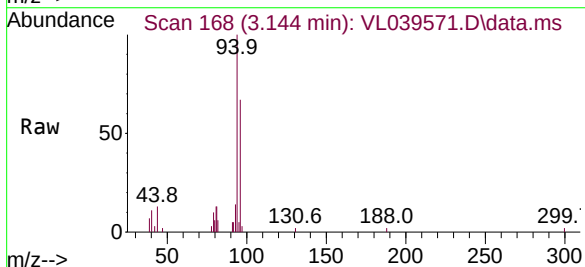
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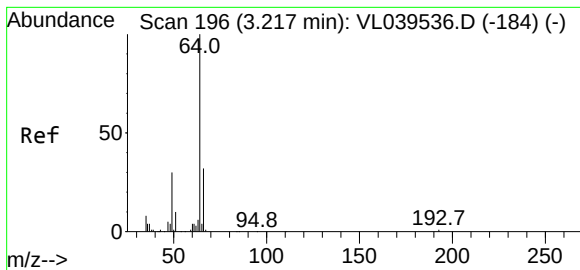
Tgt Ion: 62 Resp: 30932
 Ion Ratio Lower Upper
 62 100
 64 34.7 25.5 38.3



#6
 Bromomethane
 Concen: 0.547 ppbv
 RT: 3.144 min Scan# 168
 Delta R.T. 0.007 min
 Lab File: VL039571.D
 Acq: 18 Aug 2022 23:04

Tgt Ion: 94 Resp: 12639
 Ion Ratio Lower Upper
 94 100
 96 66.9 69.8 104.6#

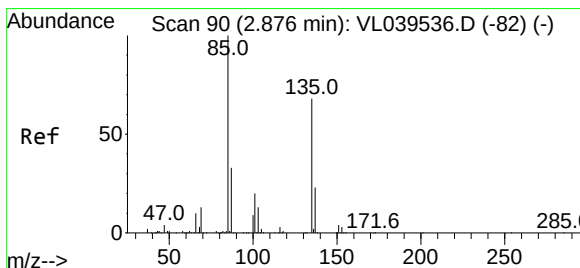
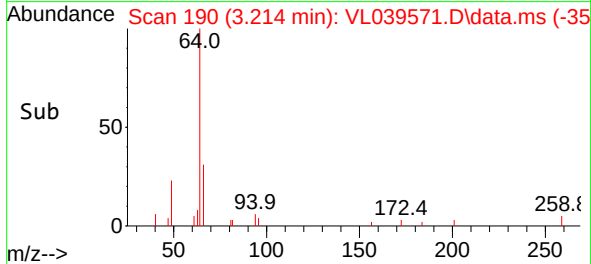
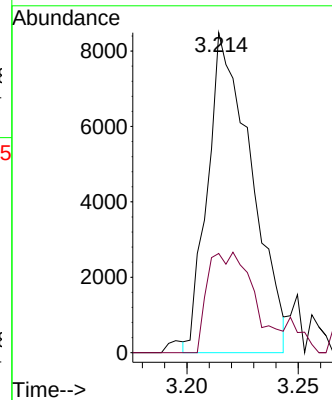
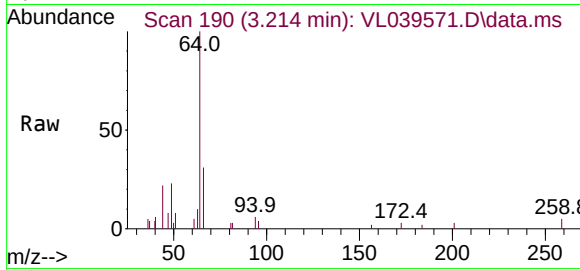




#7
Chloroethane
Concen: 0.576 ppbv
RT: 3.214 min Scan# 196
Delta R.T. -0.003 min
Lab File: VL039571.D
Acq: 18 Aug 2022 23:04

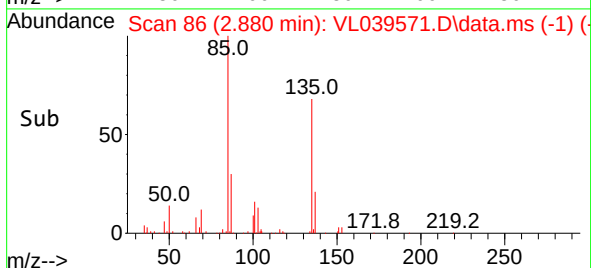
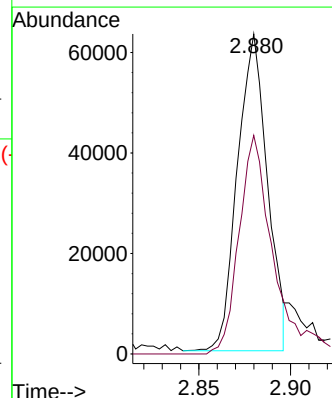
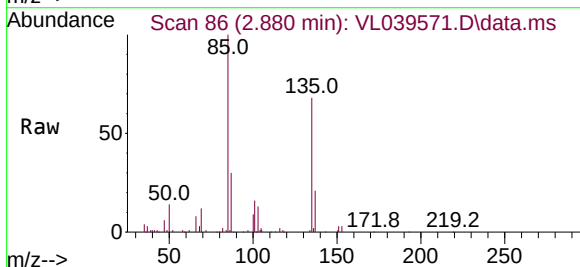
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MSVOA_L
ClientSampleId :

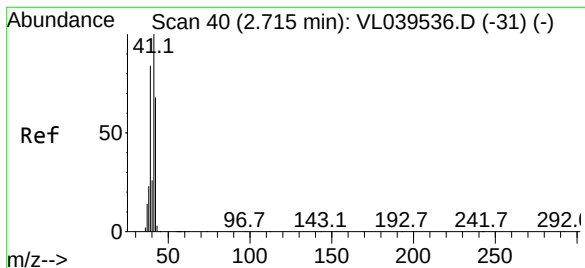
Tgt Ion: 64 Resp: 11578
Ion Ratio Lower Upper
64 100
66 31.0 25.6 38.4



#8
Dichlorotetrafluoroethane
Concen: 0.543 ppbv
RT: 2.880 min Scan# 86
Delta R.T. 0.004 min
Lab File: VL039571.D
Acq: 18 Aug 2022 23:04

Tgt Ion: 85 Resp: 71568
Ion Ratio Lower Upper
85 100
135 82.3 56.3 84.5





#9

Propene

Concen: 0.638 ppbv

RT: 2.719 min Scan# 3

Delta R.T. 0.004 min

Lab File: VL039571.D

Acq: 18 Aug 2022 23:04

Instrument :

MSVOA_L

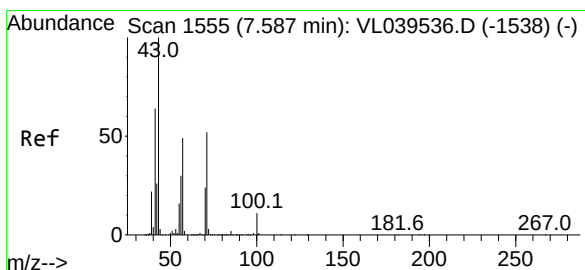
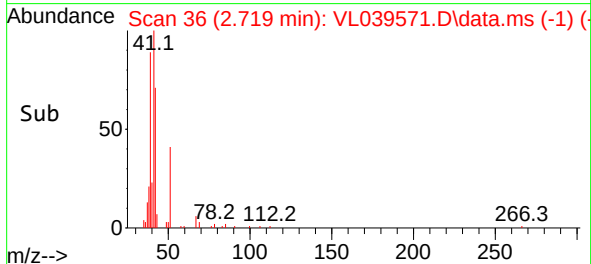
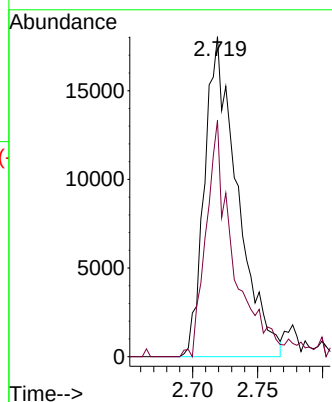
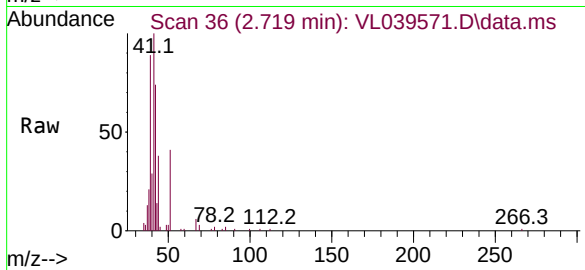
ClientSampleId :

Tgt Ion: 41 Resp: 31830

Ion Ratio Lower Upper

41 100

42 63.8 55.4 83.0



#10

Heptane

Concen: 0.418 ppbv

RT: 7.584 min Scan# 1549

Delta R.T. -0.003 min

Lab File: VL039571.D

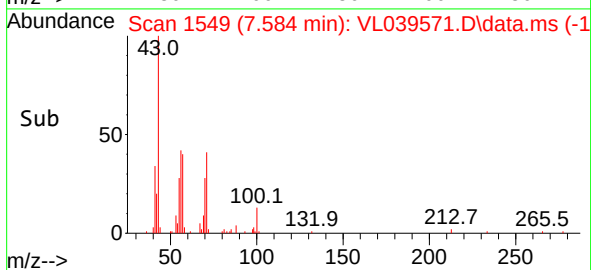
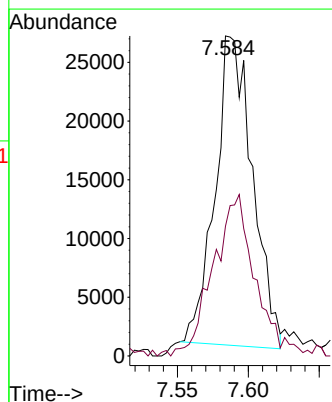
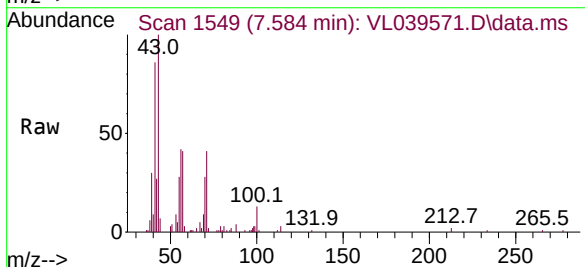
Acq: 18 Aug 2022 23:04

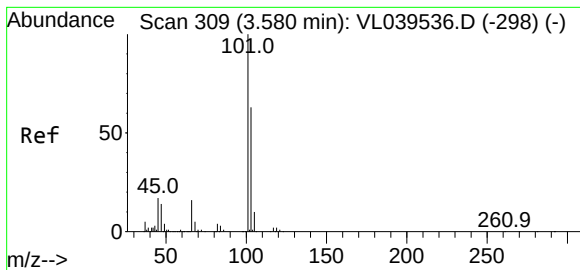
Tgt Ion: 43 Resp: 48441

Ion Ratio Lower Upper

43 100

57 60.7 39.8 59.6#

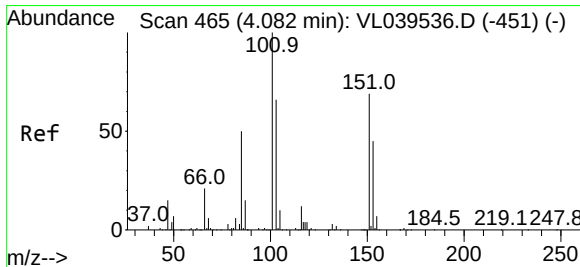
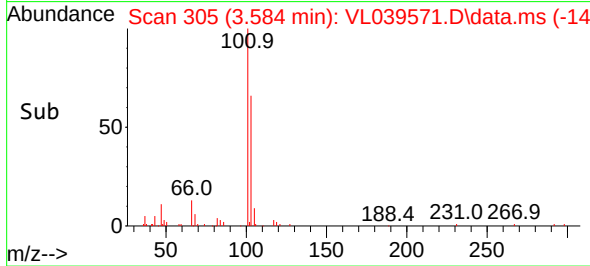
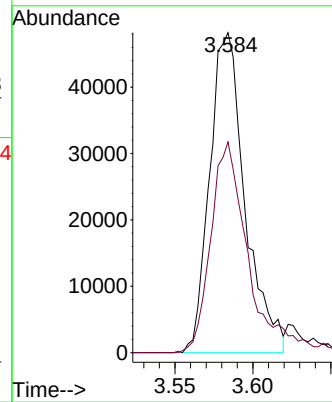
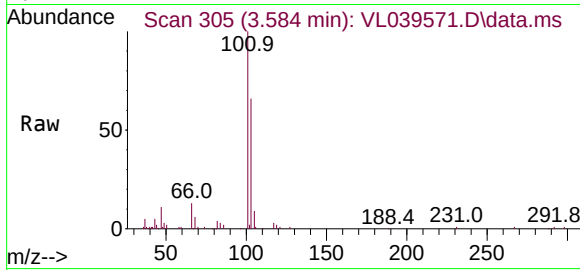




#11
 Trichlorofluoromethane
 Concen: 0.563 ppbv
 RT: 3.584 min Scan# 309
 Delta R.T. 0.004 min
 Lab File: VL039571.D
 Acq: 18 Aug 2022 23:04

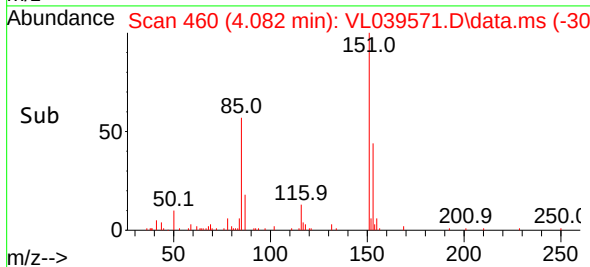
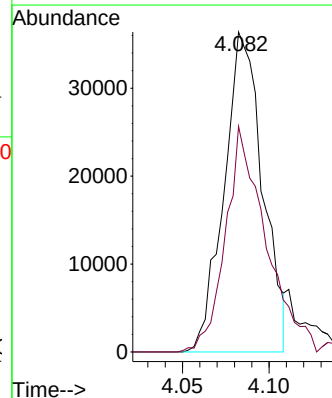
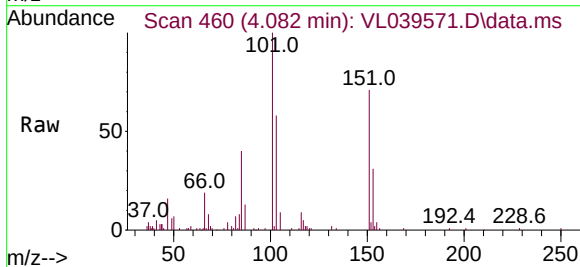
Instrument :
 MSVOA_L
 ClientSampleId :

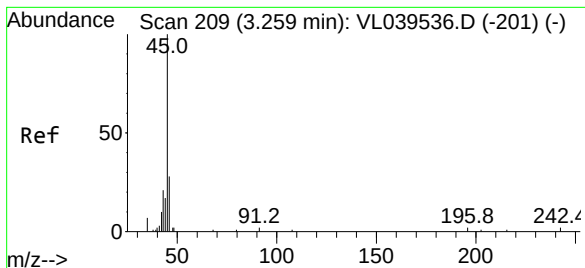
Tgt Ion:101 Resp: 75854
 Ion Ratio Lower Upper
 101 100
 103 65.2 50.6 76.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.566 ppbv
 RT: 4.082 min Scan# 460
 Delta R.T. 0.001 min
 Lab File: VL039571.D
 Acq: 18 Aug 2022 23:04

Tgt Ion:101 Resp: 56323
 Ion Ratio Lower Upper
 101 100
 151 76.0 58.6 87.8

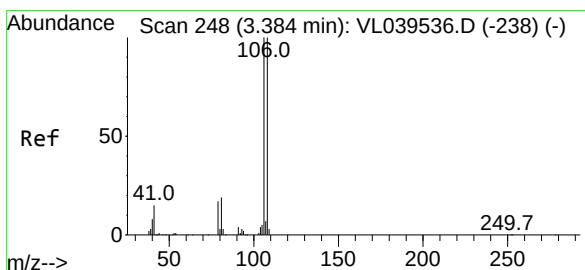
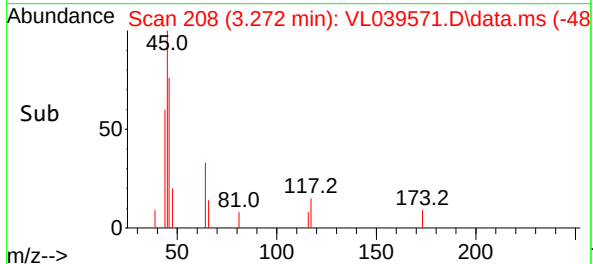
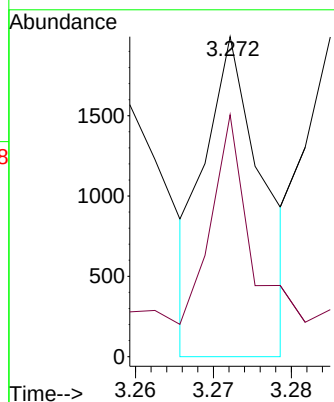
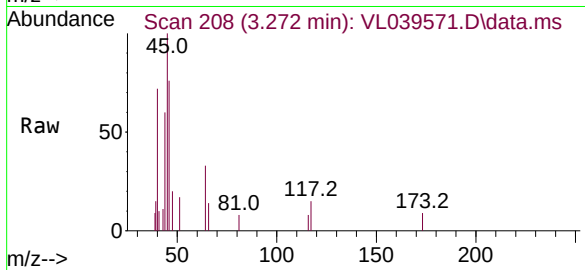




#13
Ethanol
Concen: 0.286 ppbv
RT: 3.272 min Scan# 209
Delta R.T. 0.013 min
Lab File: VL039571.D
Acq: 18 Aug 2022 23:04

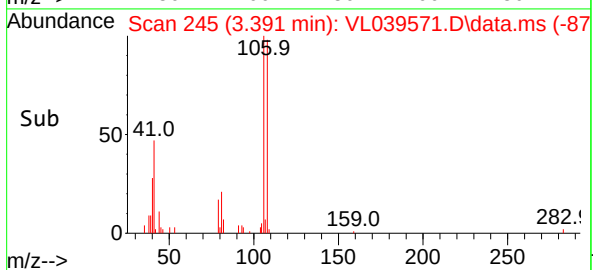
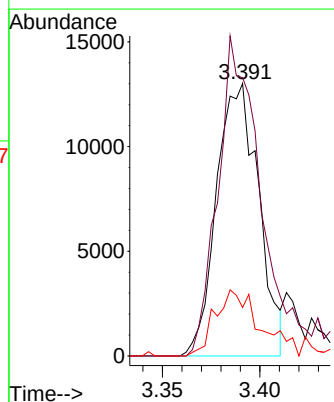
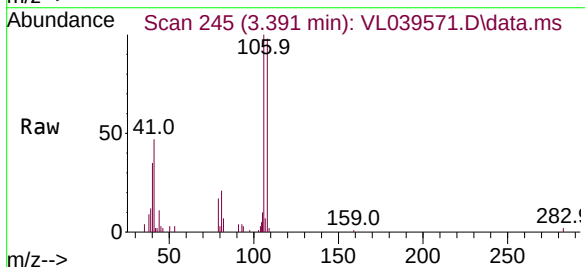
Instrument :
MSVOA_L
ClientSampleId :

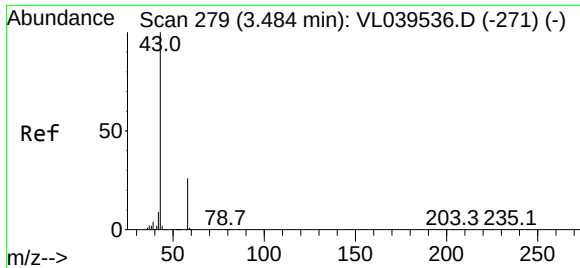
Tgt Ion: 45 Resp: 1025
Ion Ratio Lower Upper
45 100
46 138.1 19.3 77.1#



#14
Bromoethene
Concen: 0.481 ppbv
RT: 3.391 min Scan# 245
Delta R.T. 0.007 min
Lab File: VL039571.D
Acq: 18 Aug 2022 23:04

Tgt Ion: 108 Resp: 19555
Ion Ratio Lower Upper
108 100
106 131.5 86.6 130.0#
79 32.5 15.1 22.7#

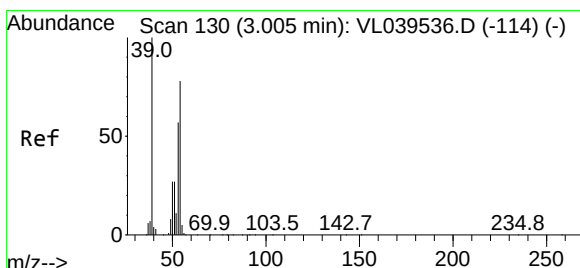
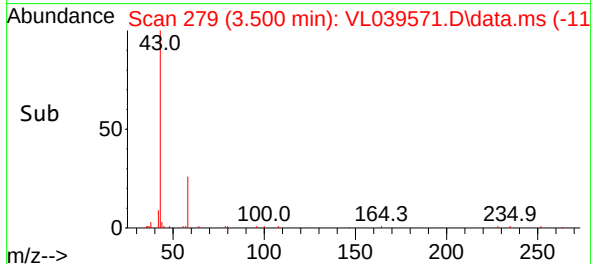
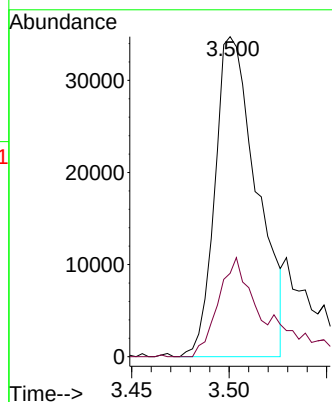
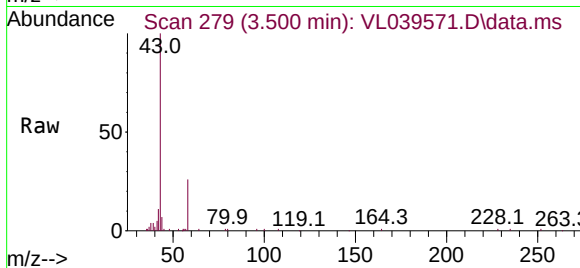




#15
Acetone
Concen: 0.504 ppbv
RT: 3.500 min Scan# 21
Delta R.T. 0.017 min
Lab File: VL039571.D
Acq: 18 Aug 2022 23:04

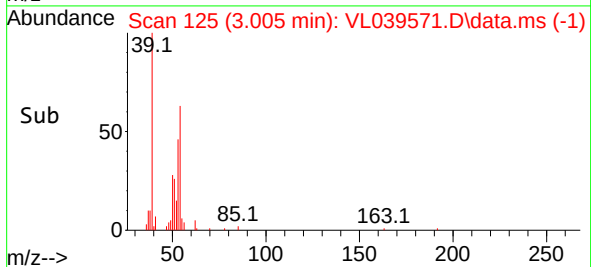
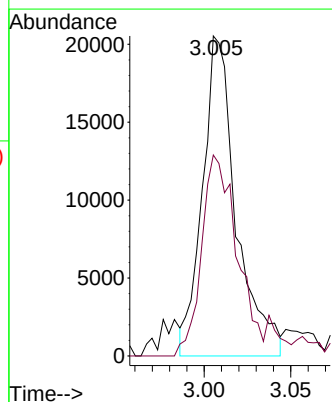
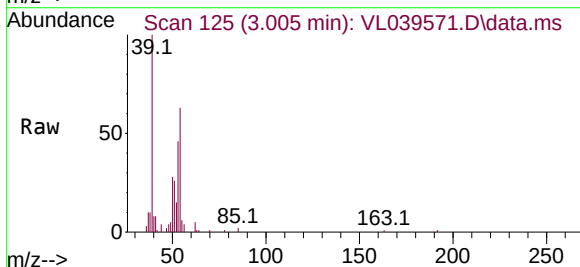
Instrument :
MSVOA_L
ClientSampleId :

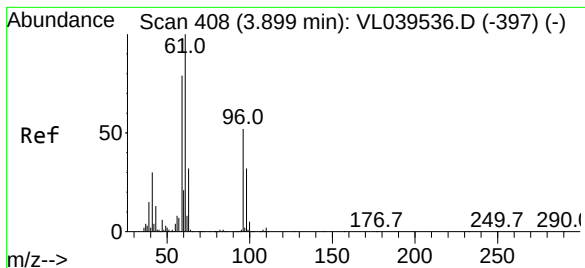
Tgt Ion: 43 Resp: 52009
Ion Ratio Lower Upper
43 100
58 37.3 20.7 31.1#



#16
1,3-Butadiene
Concen: 0.519 ppbv
RT: 3.005 min Scan# 125
Delta R.T. 0.001 min
Lab File: VL039571.D
Acq: 18 Aug 2022 23:04

Tgt Ion: 39 Resp: 27815
Ion Ratio Lower Upper
39 100
54 77.9 61.8 92.8

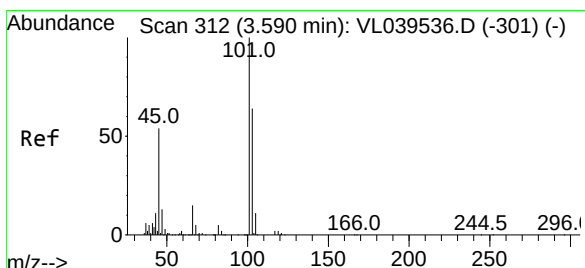
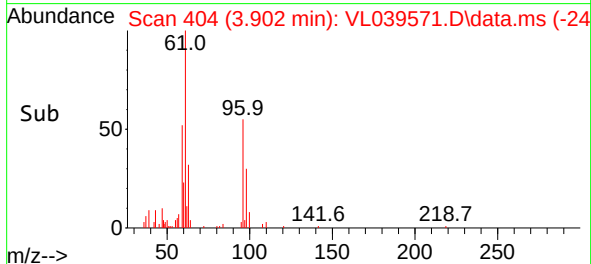
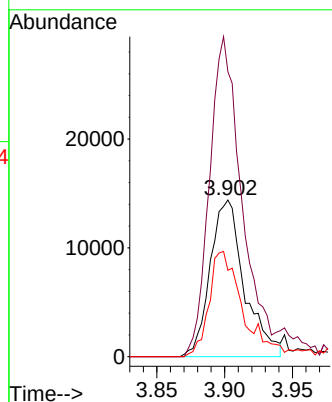
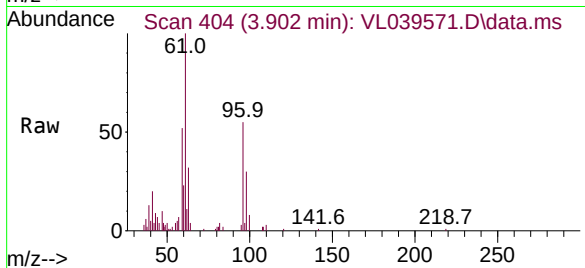




#18
1,1-Dichloroethene
Concen: 0.565 ppbv
RT: 3.902 min Scan# 408
Delta R.T. 0.004 min
Lab File: VL039571.D
Acq: 18 Aug 2022 23:04

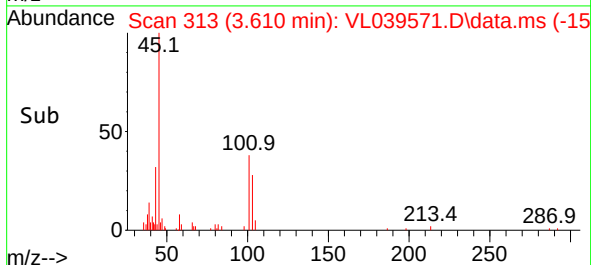
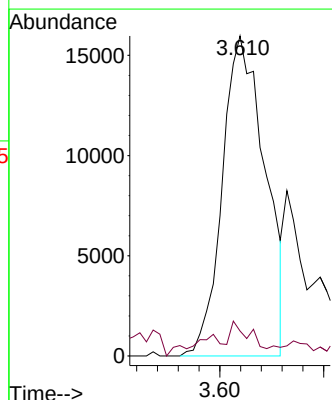
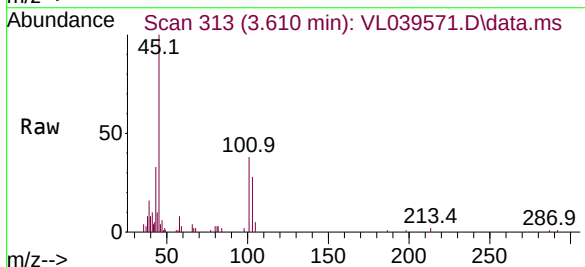
Instrument :
MSVOA_L
ClientSampleId :

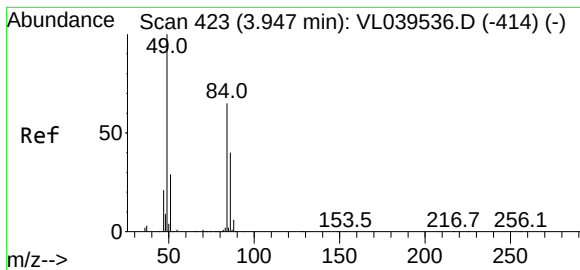
Tgt Ion: 96 Resp: 25359
Ion Ratio Lower Upper
96 100
61 182.0 153.8 230.6
98 55.2 48.6 73.0



#19
Isopropyl Alcohol
Concen: 0.452 ppbv
RT: 3.610 min Scan# 313
Delta R.T. 0.020 min
Lab File: VL039571.D
Acq: 18 Aug 2022 23:04

Tgt Ion: 45 Resp: 22800
Ion Ratio Lower Upper
45 100
58 9.9 0.0 0.0#

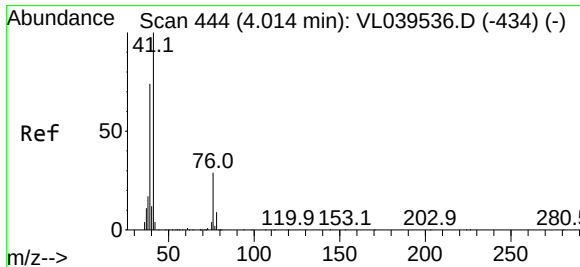
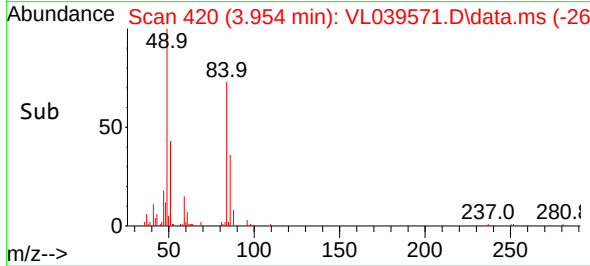
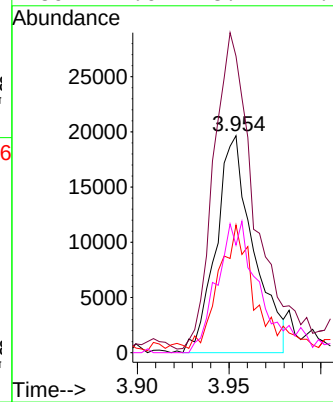
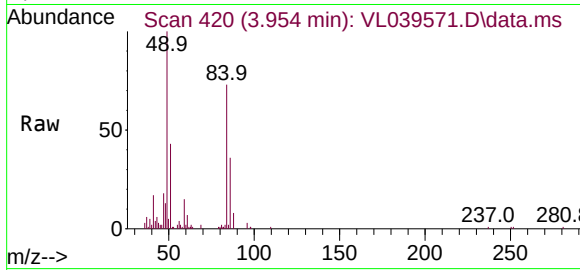




#20
Methylene Chloride
Concen: 0.662 ppbv
RT: 3.954 min Scan# 41
Delta R.T. 0.007 min
Lab File: VL039571.D
Acq: 18 Aug 2022 23:04

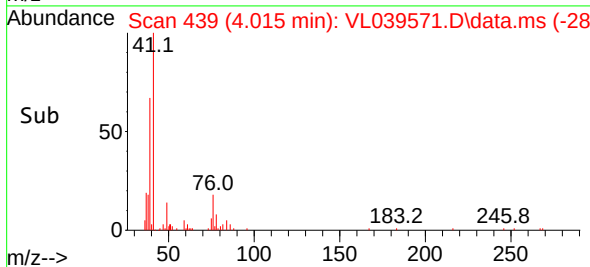
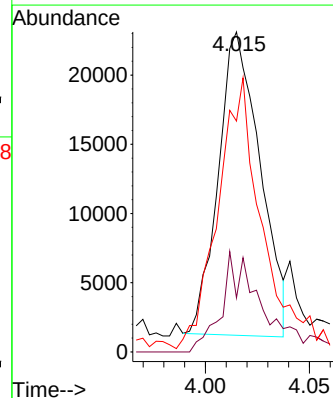
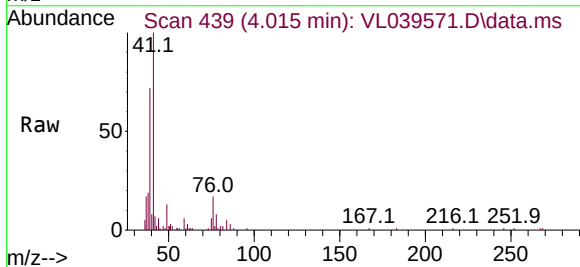
Instrument :
MSVOA_L
ClientSampleId :

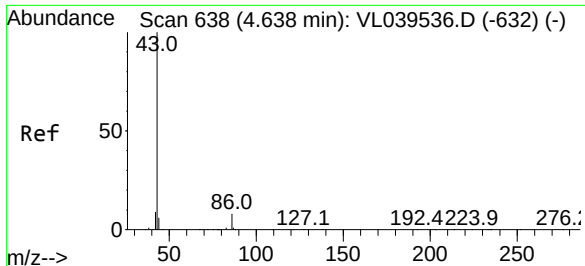
Tgt Ion:	84	Resp:	27818
Ion	Ratio	Lower	Upper
84	100		
49	141.5	122.2	183.4
51	55.4	35.8	53.6#
86	49.6	48.4	72.6



#21
Allyl Chloride
Concen: 0.457 ppbv
RT: 4.015 min Scan# 439
Delta R.T. 0.001 min
Lab File: VL039571.D
Acq: 18 Aug 2022 23:04

Tgt Ion:	41	Resp:	30659
Ion	Ratio	Lower	Upper
41	100		
76	34.8	23.1	34.7#
39	102.1	63.4	95.2#

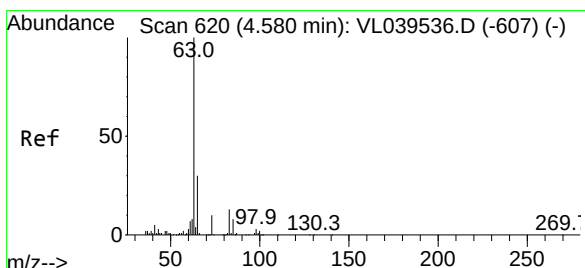
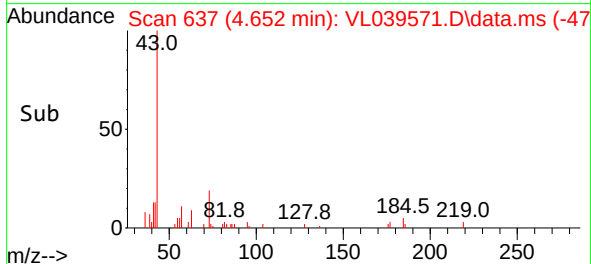
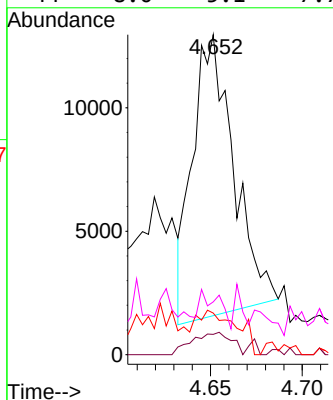
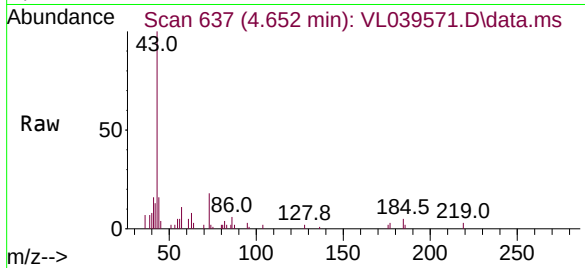




#23
 Vinyl Acetate
 Concen: 0.342 ppbv
 RT: 4.652 min Scan# 615
 Delta R.T. 0.013 min
 Lab File: VL039571.D
 Acq: 18 Aug 2022 23:04

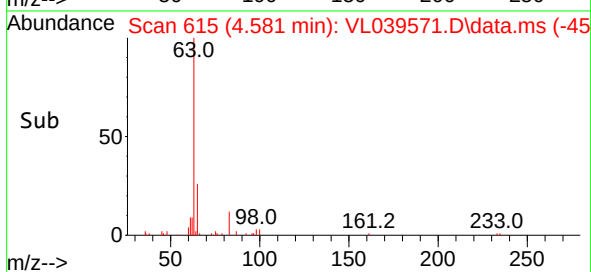
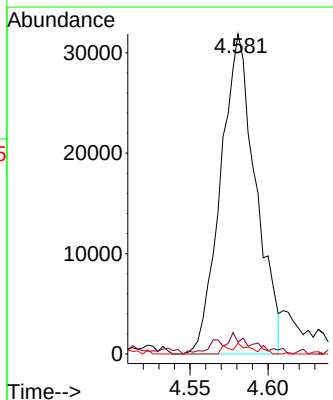
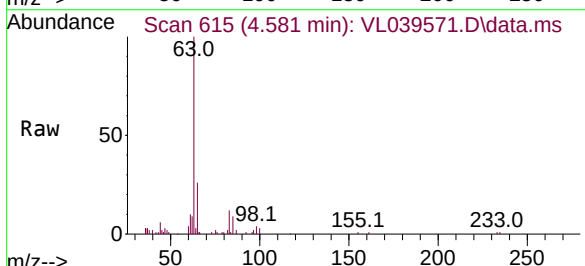
Instrument :
 MSVOA_L
 ClientSampleId :

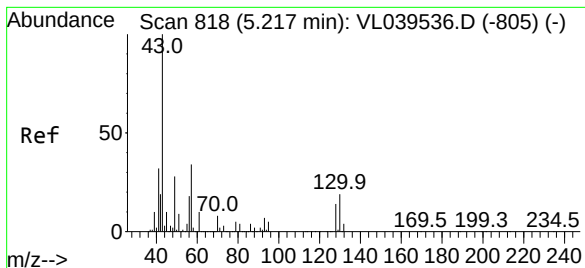
Tgt Ion:	43	Resp:	17752
Ion	Ratio	Lower	Upper
43	100		
86	5.8	5.3	7.9
42	14.3	8.7	13.1#
44	8.0	5.1	7.7#



#24
 1,1-Dichloroethane
 Concen: 0.546 ppbv
 RT: 4.581 min Scan# 615
 Delta R.T. 0.001 min
 Lab File: VL039571.D
 Acq: 18 Aug 2022 23:04

Tgt Ion:	63	Resp:	49834
Ion	Ratio	Lower	Upper
63	100		
98	2.4	1.7	5.0
100	3.3	1.1	3.3#



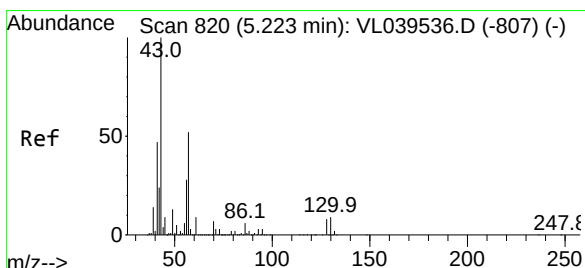
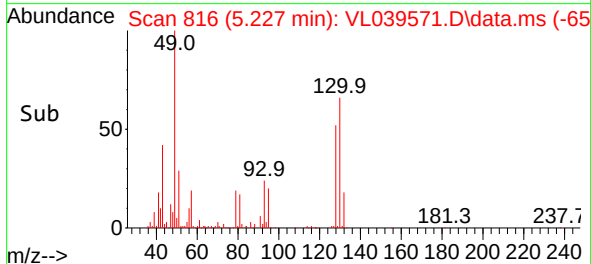
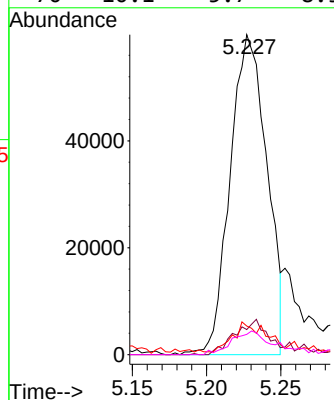
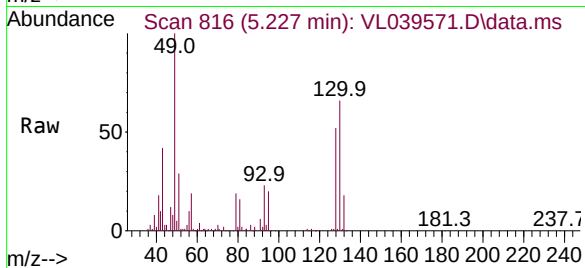


#25
Ethyl Acetate
Concen: 0.469 ppbv
RT: 5.227 min Scan# 815
Delta R.T. 0.010 min
Lab File: VL039571.D
Acq: 18 Aug 2022 23:04

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 43 Resp: 103219

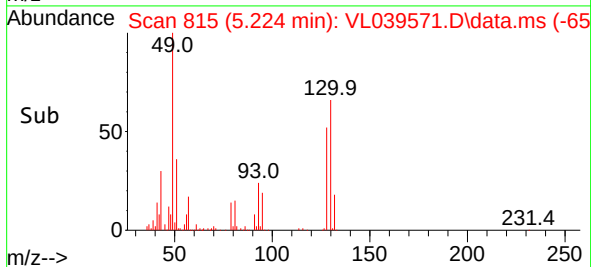
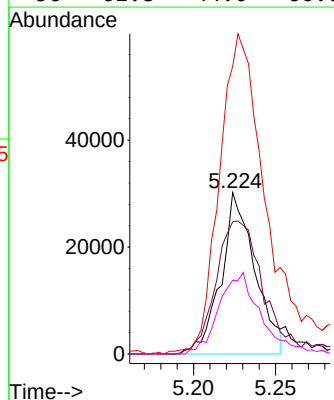
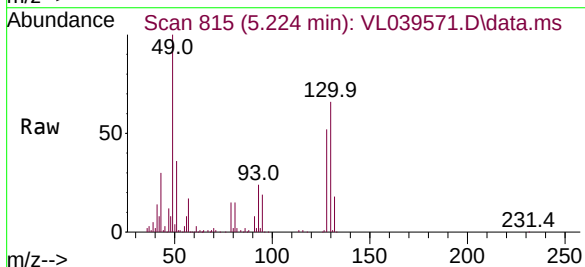
Ion	Ratio	Lower	Upper
43	100		
45	13.1	8.2	12.4#
61	13.9	8.6	12.8#
70	10.1	5.7	8.5#

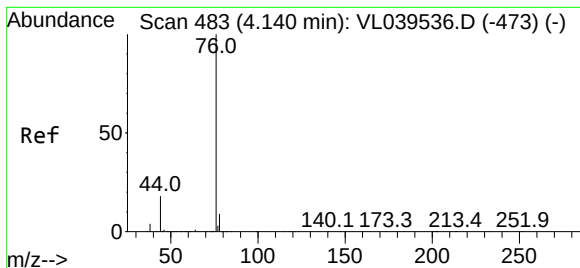


#26
Hexane
Concen: 0.481 ppbv
RT: 5.224 min Scan# 815
Delta R.T. 0.001 min
Lab File: VL039571.D
Acq: 18 Aug 2022 23:04

Tgt Ion: 57 Resp: 43416

Ion	Ratio	Lower	Upper
57	100		
41	121.9	79.4	119.2#
43	295.4	199.7	299.5
56	61.8	44.0	66.0





#27

Carbon Disulfide

Concen: 0.457 ppbv

RT: 4.140 min Scan# 41

Delta R.T. 0.001 min

Lab File: VL039571.D

Acq: 18 Aug 2022 23:04

Instrument :

MSVOA_L

ClientSampleId :

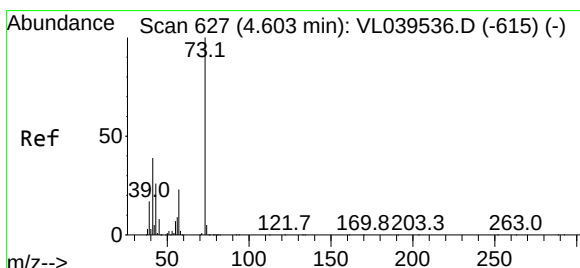
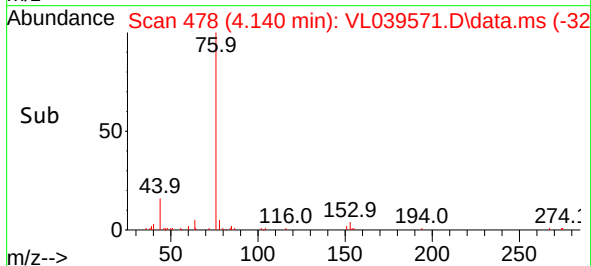
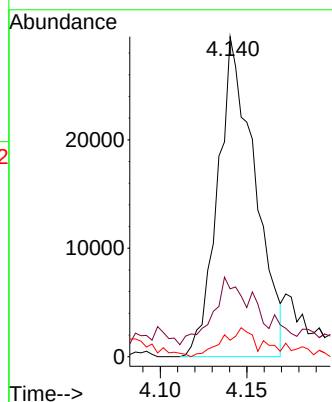
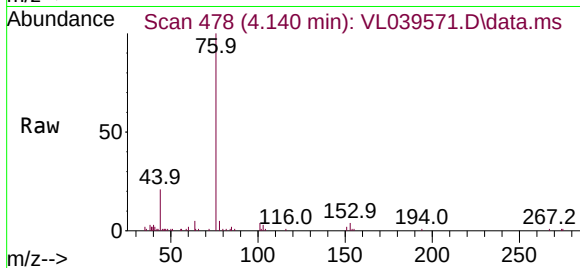
Tgt Ion: 76 Resp: 43999

Ion Ratio Lower Upper

76 100

44 33.1 16.3 24.5#

78 11.3 7.8 11.6



#28

Methyl tert-Butyl Ether

Concen: 0.340 ppbv

RT: 4.613 min Scan# 625

Delta R.T. 0.010 min

Lab File: VL039571.D

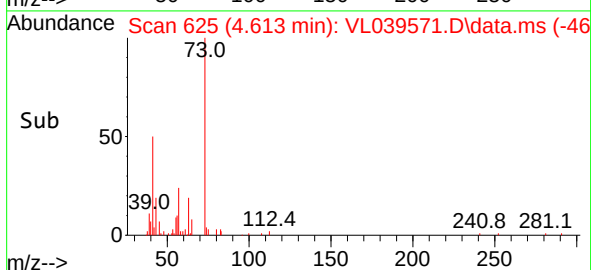
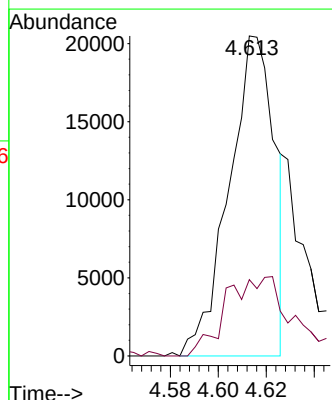
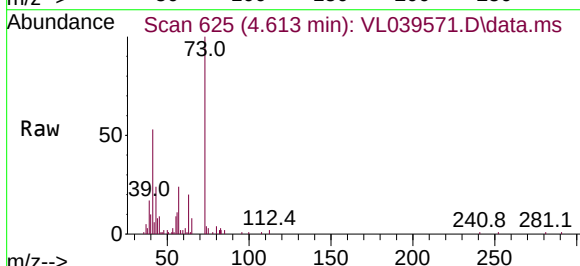
Acq: 18 Aug 2022 23:04

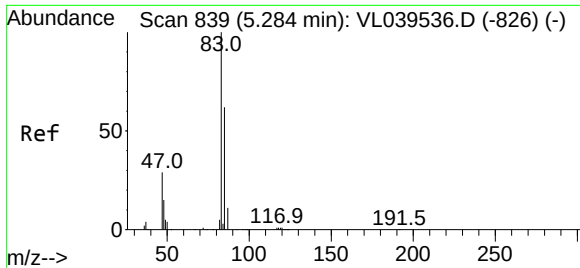
Tgt Ion: 73 Resp: 27002

Ion Ratio Lower Upper

73 100

57 41.2 19.8 29.6#

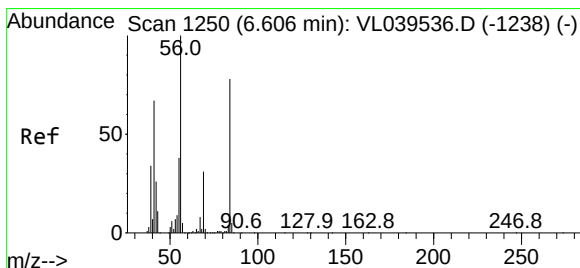
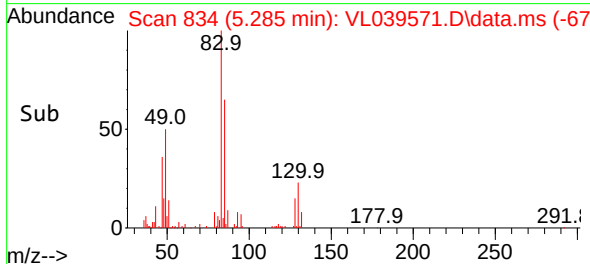
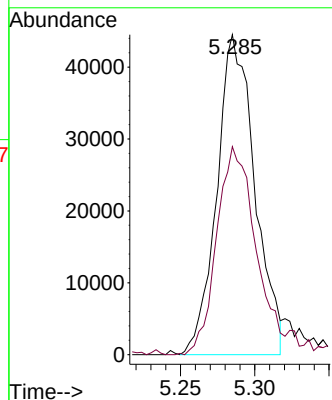
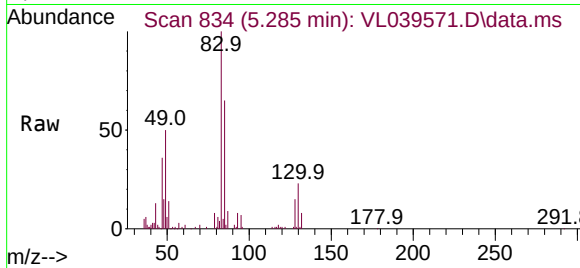




#29
Chloroform
Concen: 0.561 ppbv
RT: 5.285 min Scan# 81
Delta R.T. 0.001 min
Lab File: VL039571.D
Acq: 18 Aug 2022 23:04

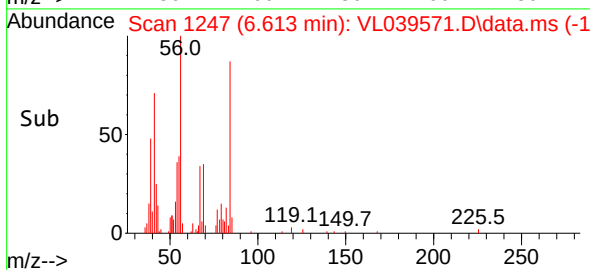
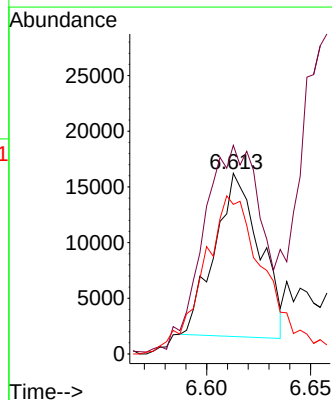
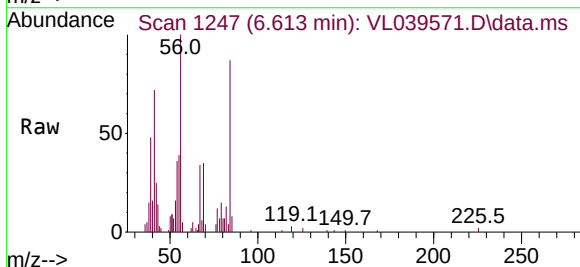
Instrument :
MSVOA_L
ClientSampleId :

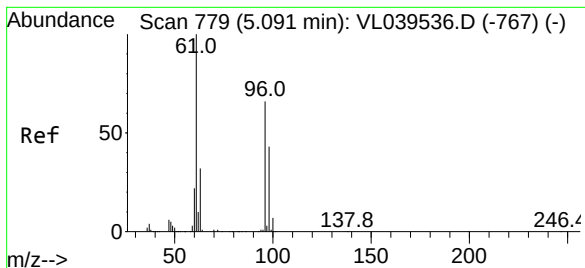
Tgt Ion: 83 Resp: 79139
Ion Ratio Lower Upper
83 100
85 64.6 49.8 74.8



#30
Cyclohexane
Concen: 0.294 ppbv
RT: 6.613 min Scan# 1247
Delta R.T. 0.007 min
Lab File: VL039571.D
Acq: 18 Aug 2022 23:04

Tgt Ion: 84 Resp: 22036
Ion Ratio Lower Upper
84 100
56 181.4 0.0 0.0#
41 138.0 0.0 0.0#

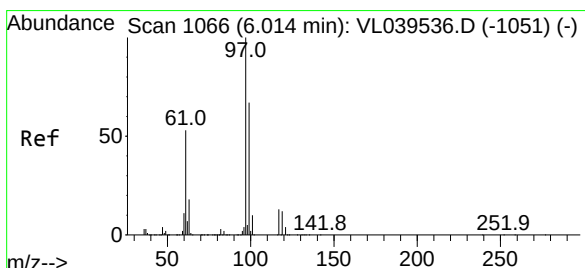
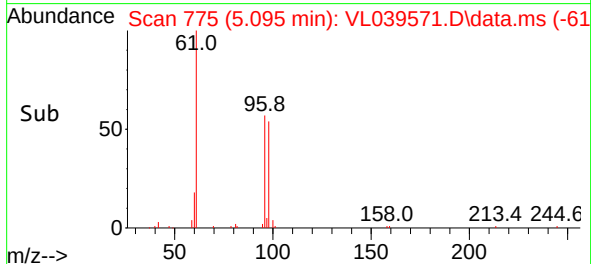
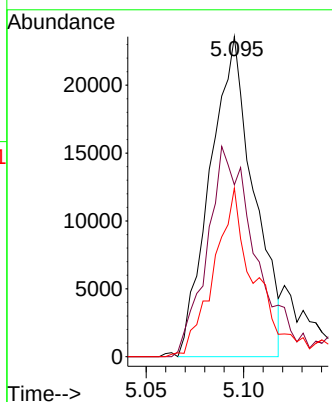
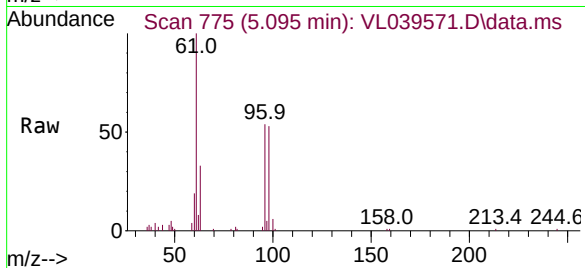




#31
 cis-1,2-Dichloroethene
 Concen: 0.422 ppbv
 RT: 5.095 min Scan# 71
 Delta R.T. 0.004 min
 Lab File: VL039571.D
 Acq: 18 Aug 2022 23:04

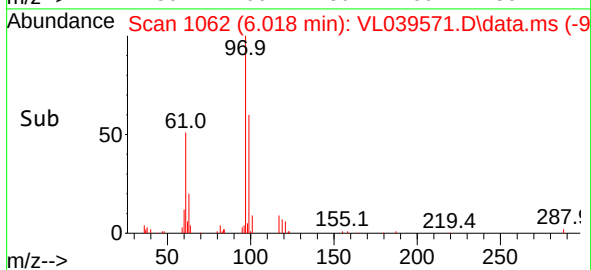
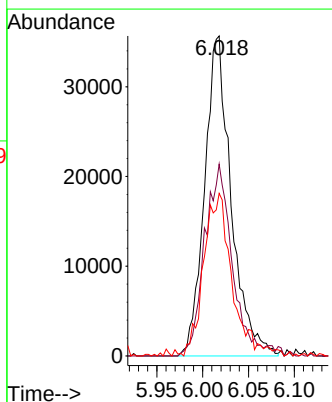
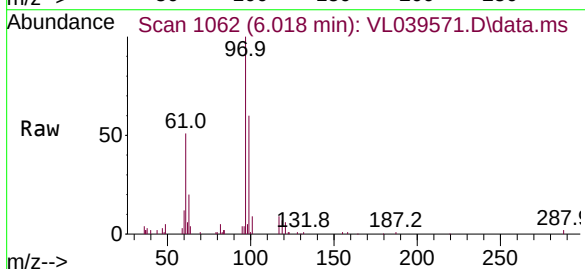
Instrument :
 MSVOA_L
 ClientSampleId :

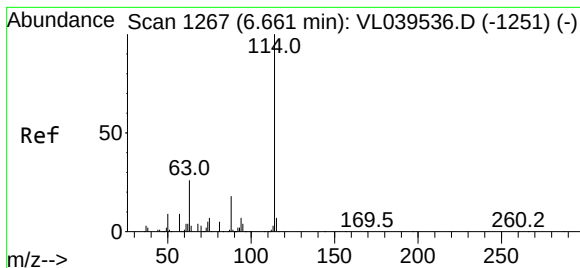
Tgt Ion: 61 Resp: 36794
 Ion Ratio Lower Upper
 61 100
 96 52.1 52.9 79.3#
 98 51.5 34.5 51.7



#32
 1,1,1-Trichloroethane
 Concen: 0.543 ppbv
 RT: 6.018 min Scan# 1062
 Delta R.T. 0.004 min
 Lab File: VL039571.D
 Acq: 18 Aug 2022 23:04

Tgt Ion: 97 Resp: 71965
 Ion Ratio Lower Upper
 97 100
 99 63.2 52.4 78.6
 61 55.2 42.9 64.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.661 min Scan# 114

Delta R.T. 0.001 min

Lab File: VL039571.D

Acq: 18 Aug 2022 23:04

Instrument :

MSVOA_L

ClientSampleId :

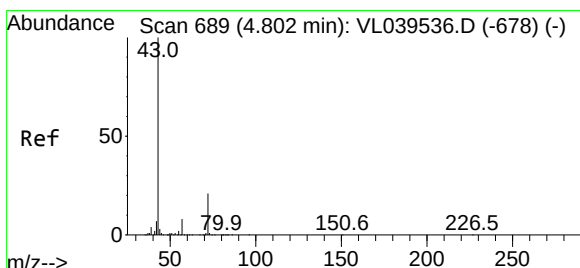
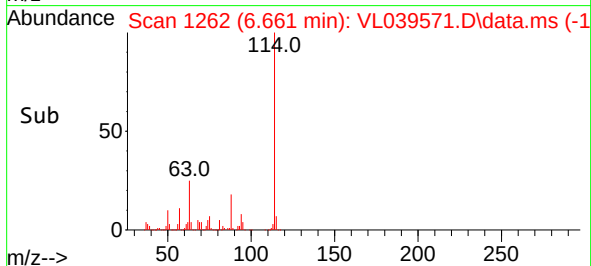
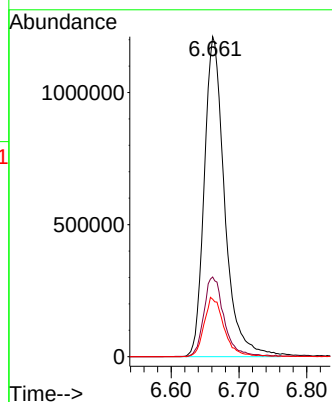
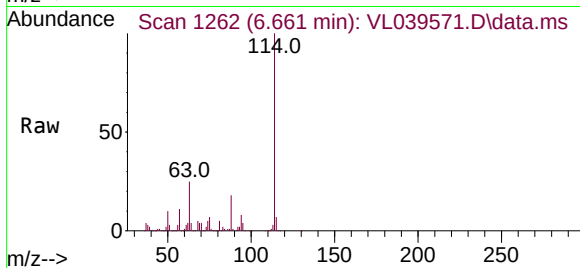
Tgt Ion:114 Resp: 2528573

Ion Ratio Lower Upper

114 100

63 25.3 20.6 31.0

88 18.4 14.6 22.0



#34

2-Butanone

Concen: 0.434 ppbv

RT: 4.815 min Scan# 688

Delta R.T. 0.013 min

Lab File: VL039571.D

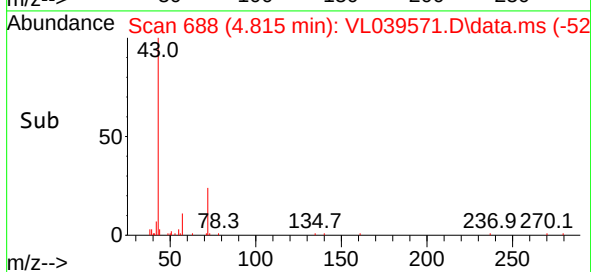
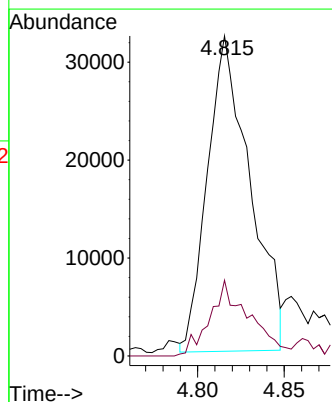
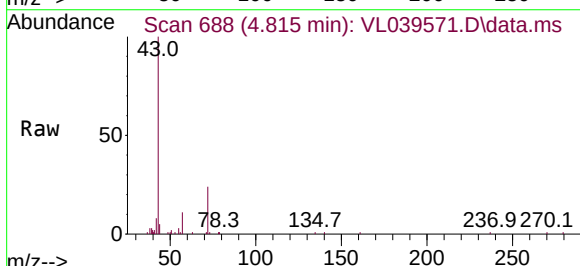
Acq: 18 Aug 2022 23:04

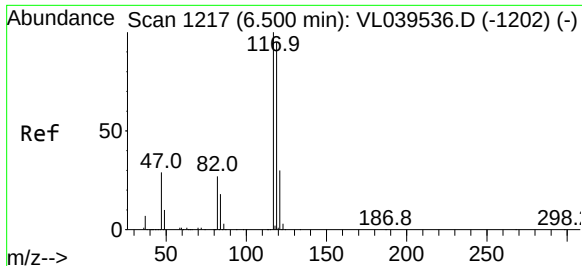
Tgt Ion: 43 Resp: 55117

Ion Ratio Lower Upper

43 100

72 22.0 17.4 26.0

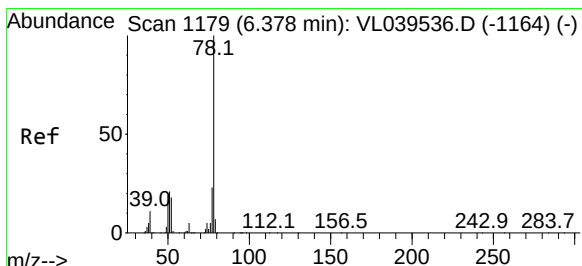
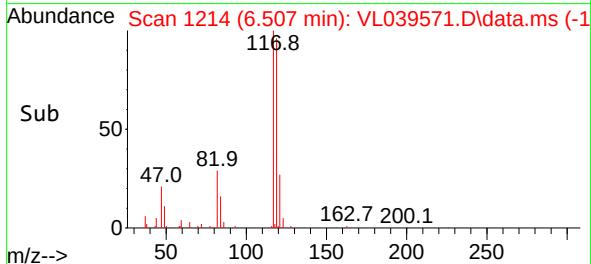
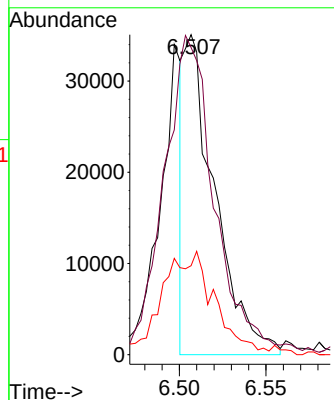
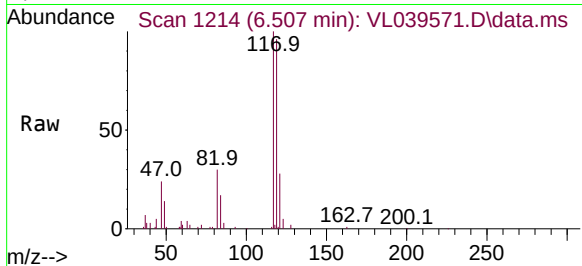




#35
Carbon Tetrachloride
Concen: 0.307 ppbv
RT: 6.507 min Scan# 1175
Delta R.T. 0.007 min
Lab File: VL039571.D
Acq: 18 Aug 2022 23:04

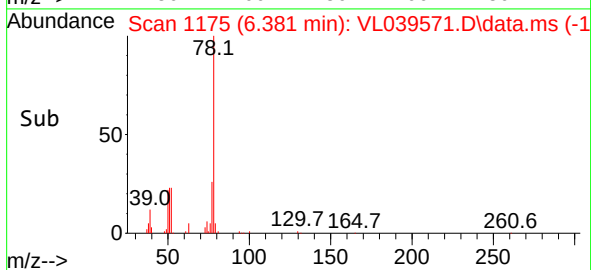
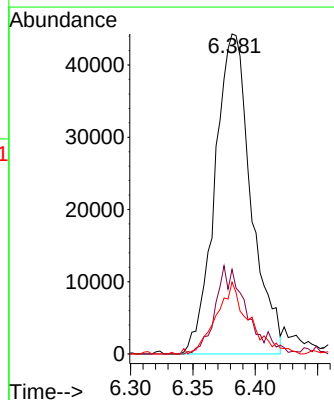
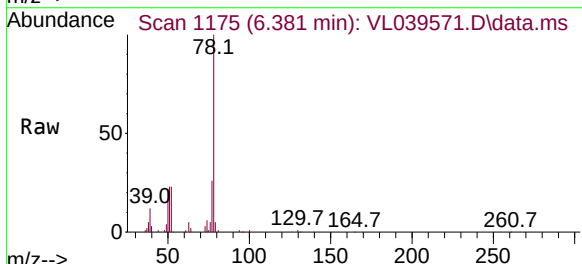
Instrument :
MSVOA_L
ClientSampleId :

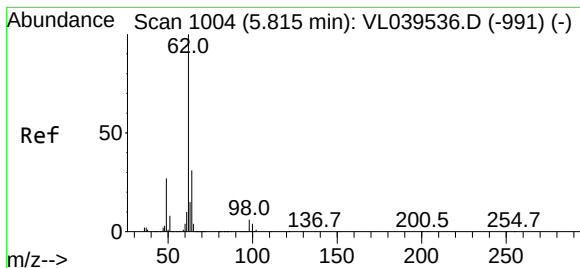
Tgt Ion:117 Resp: 43692
Ion Ratio Lower Upper
117 100
119 94.8 76.2 114.4
121 26.8 24.4 36.6



#36
Benzene
Concen: 0.463 ppbv
RT: 6.381 min Scan# 1175
Delta R.T. 0.004 min
Lab File: VL039571.D
Acq: 18 Aug 2022 23:04

Tgt Ion: 78 Resp: 89302
Ion Ratio Lower Upper
78 100
77 26.4 18.6 27.8
50 22.5 15.0 22.4#

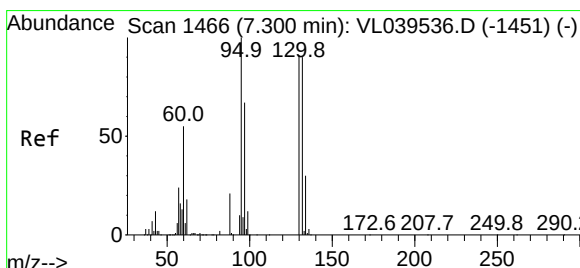
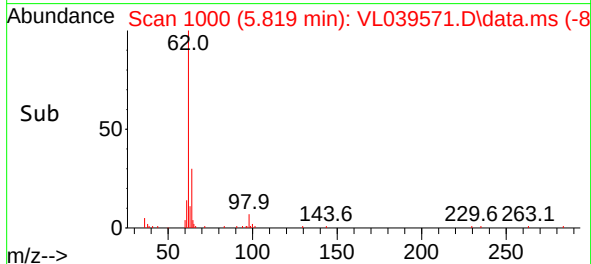
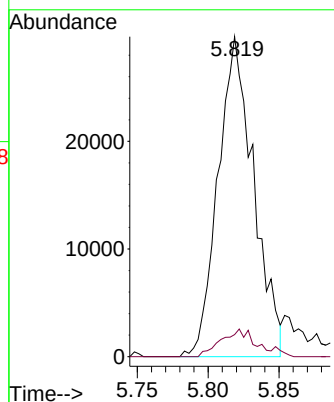
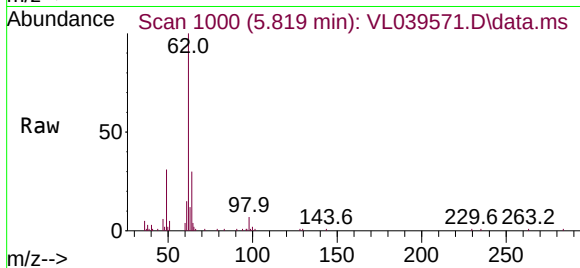




#37
1,2-Dichloroethane
Concen: 0.485 ppbv
RT: 5.819 min Scan# 1004
Delta R.T. 0.004 min
Lab File: VL039571.D
Acq: 18 Aug 2022 23:04

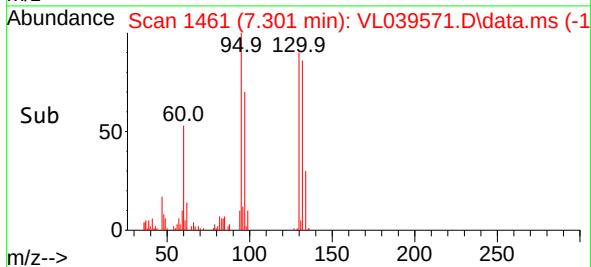
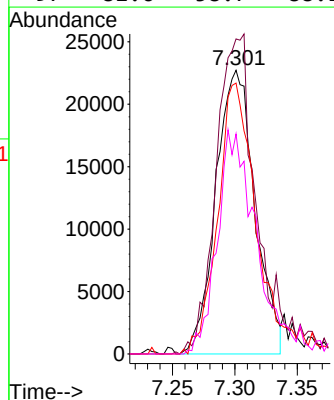
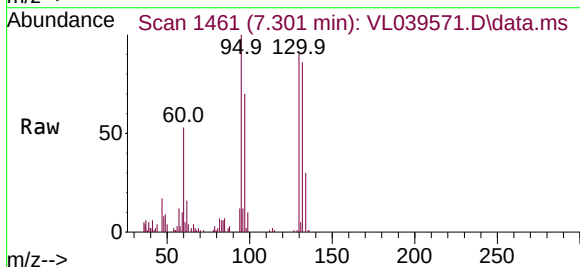
Instrument :
MSVOA_L
ClientSampleId :

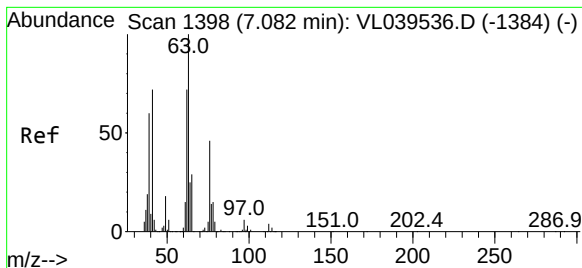
Tgt Ion: 62 Resp: 51924
Ion Ratio Lower Upper
62 100
98 8.8 5.4 8.2#



#38
Trichloroethene
Concen: 0.473 ppbv
RT: 7.301 min Scan# 1461
Delta R.T. 0.001 min
Lab File: VL039571.D
Acq: 18 Aug 2022 23:04

Tgt Ion:130 Resp: 49540
Ion Ratio Lower Upper
130 100
95 116.8 88.0 132.0
132 100.5 79.1 118.7
97 81.6 58.7 88.1

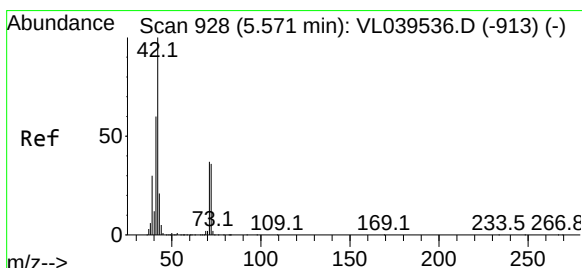
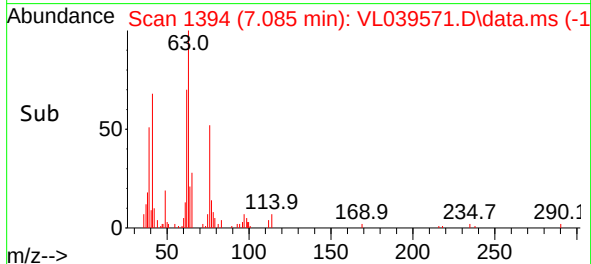
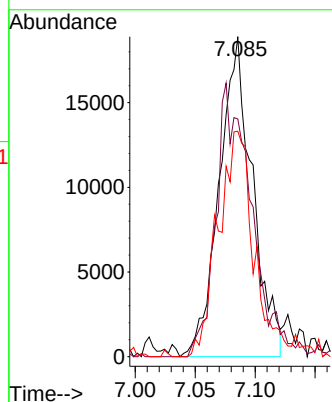
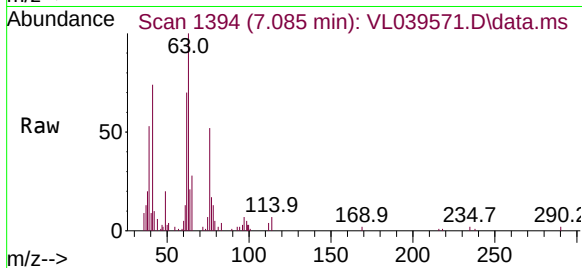




#39
1,2-Dichloropropane
Concen: 0.504 ppbv
RT: 7.085 min Scan# 11
Delta R.T. 0.004 min
Lab File: VL039571.D
Acq: 18 Aug 2022 23:04

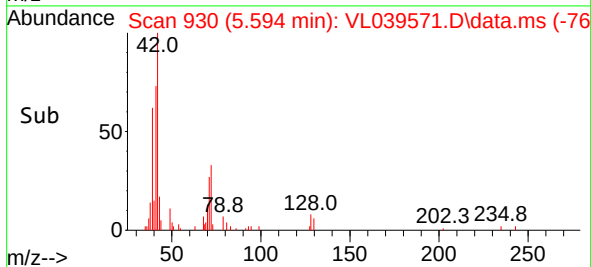
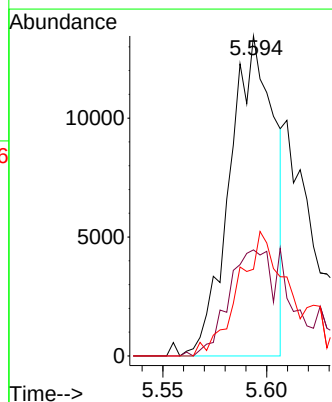
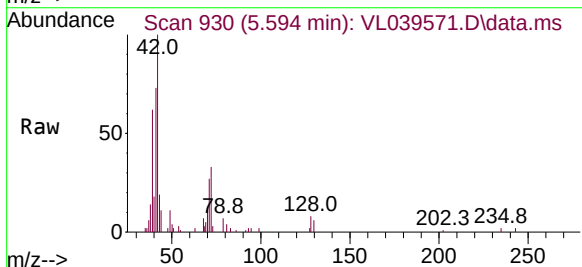
Instrument :
MSVOA_L
ClientSampleId :

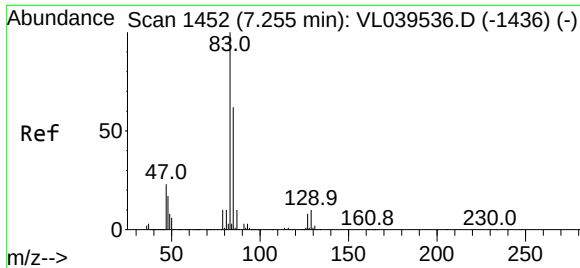
Tgt Ion: 63 Resp: 36366
Ion Ratio Lower Upper
63 100
41 75.2 58.0 87.0
62 71.3 57.8 86.8



#41
Tetrahydrofuran
Concen: 0.267 ppbv
RT: 5.594 min Scan# 930
Delta R.T. 0.023 min
Lab File: VL039571.D
Acq: 18 Aug 2022 23:04

Tgt Ion: 42 Resp: 19997
Ion Ratio Lower Upper
42 100
72 0.0 30.6 45.8#
71 50.6 30.7 46.1#

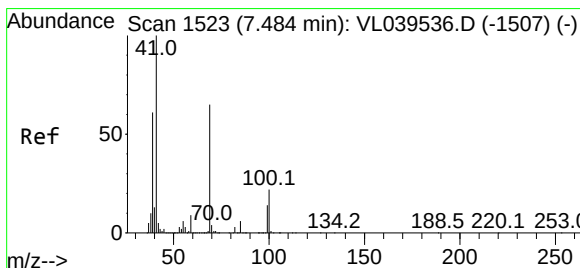
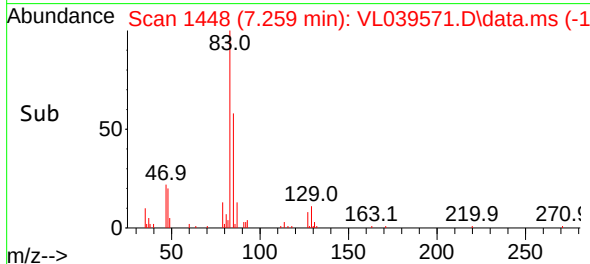
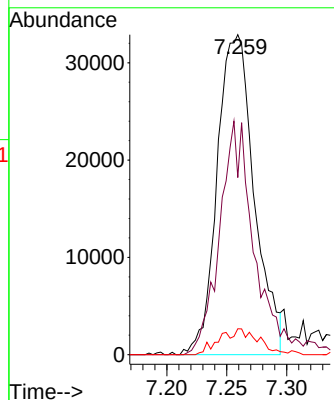
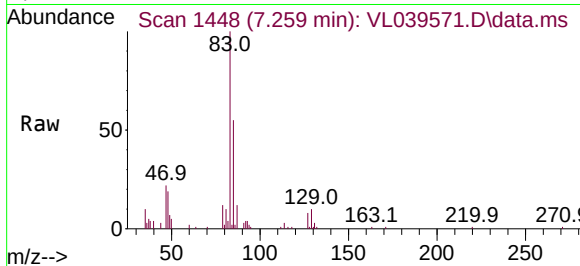




#42
Bromodichloromethane
Concen: 0.483 ppbv
RT: 7.259 min Scan# 1448
Delta R.T. 0.004 min
Lab File: VL039571.D
Acq: 18 Aug 2022 23:04

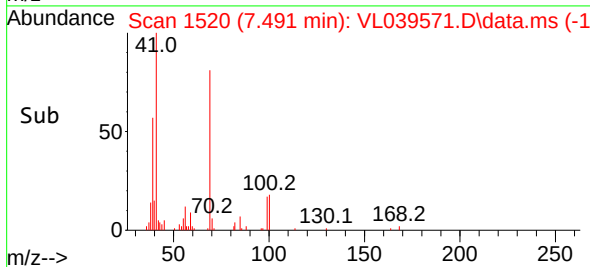
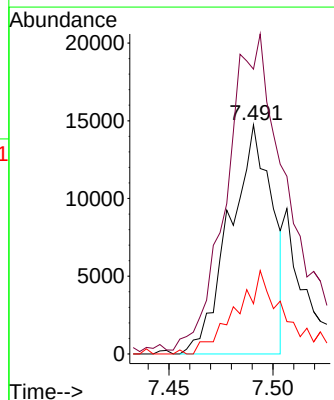
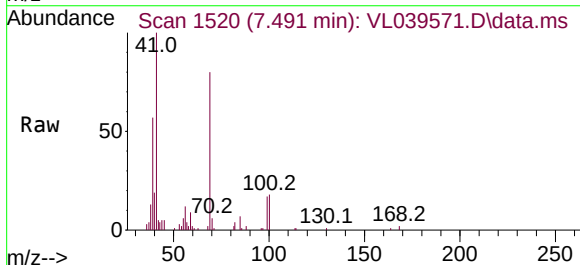
Instrument :
MSVOA_L
ClientSampleId :

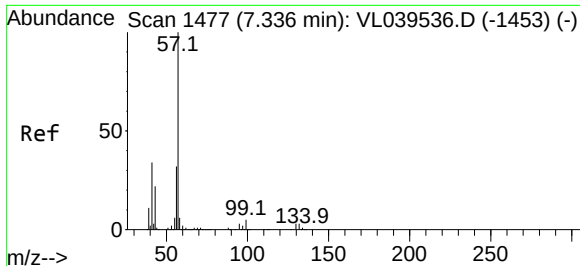
Tgt Ion: 83 Resp: 70737
Ion Ratio Lower Upper
83 100
85 55.4 49.9 74.9
127 8.1 6.7 10.1



#43
Methyl Methacrylate
Concen: 0.301 ppbv
RT: 7.491 min Scan# 1520
Delta R.T. 0.007 min
Lab File: VL039571.D
Acq: 18 Aug 2022 23:04

Tgt Ion: 69 Resp: 20977
Ion Ratio Lower Upper
69 100
41 214.5 123.0 184.6#
100 45.5 27.4 41.2#





#44

2,2,4-Trimethylpentane

Concen: 0.276 ppbv

RT: 7.336 min Scan# 1477

Delta R.T. 0.001 min

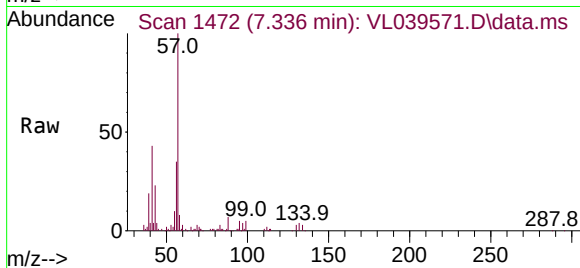
Lab File: VL039571.D

Acq: 18 Aug 2022 23:04

Instrument :

MSVOA_L

ClientSampleId :



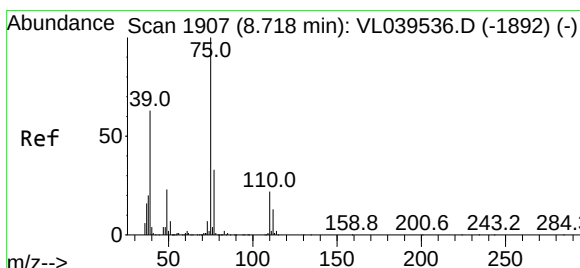
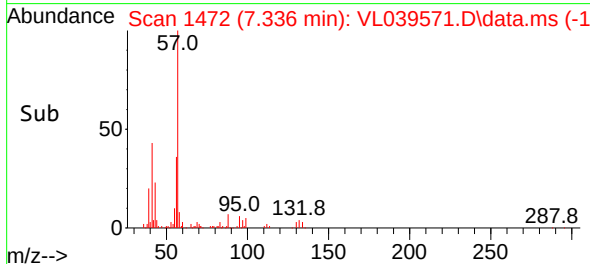
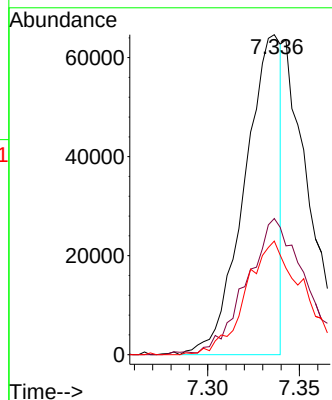
Tgt Ion: 57 Resp: 89597

Ion Ratio Lower Upper

57 100

41 72.1 27.8 41.6#

56 59.2 25.5 38.3#



#45

t-1,3-Dichloropropene

Concen: 0.136 ppbv

RT: 8.712 min Scan# 1900

Delta R.T. -0.006 min

Lab File: VL039571.D

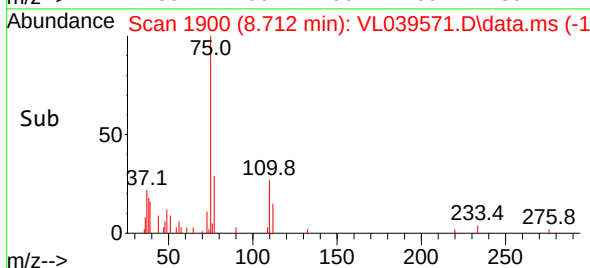
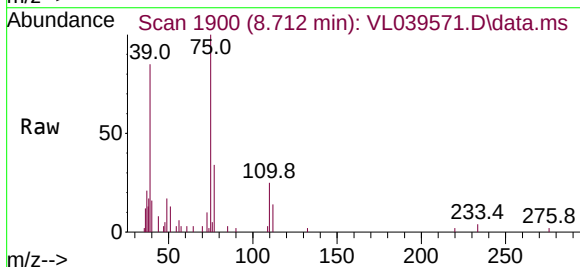
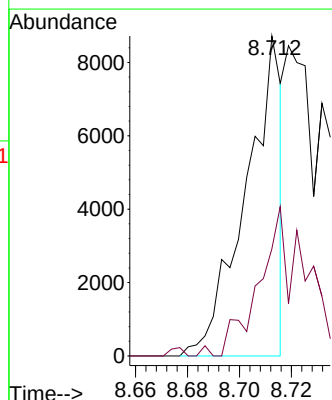
Acq: 18 Aug 2022 23:04

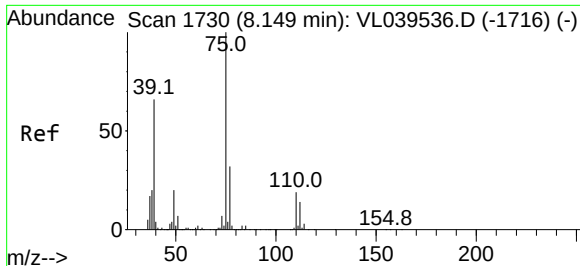
Tgt Ion: 75 Resp: 8317

Ion Ratio Lower Upper

75 100

77 33.5 26.2 39.2





#46

cis-1,3-Dichloropropene

Concen: 0.340 ppbv

RT: 8.153 min Scan# 1

Delta R.T. 0.004 min

Lab File: VL039571.D

Acq: 18 Aug 2022 23:04

Instrument :

MSVOA_L

ClientSampleId :

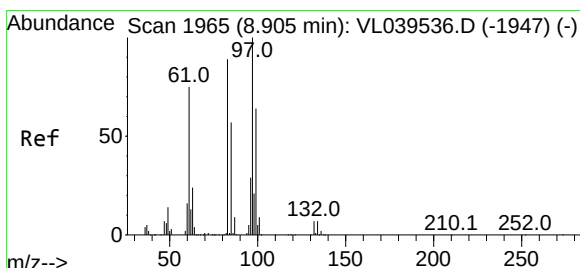
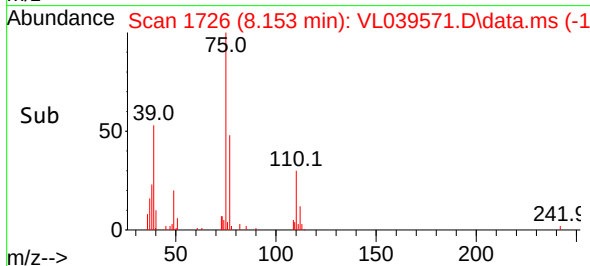
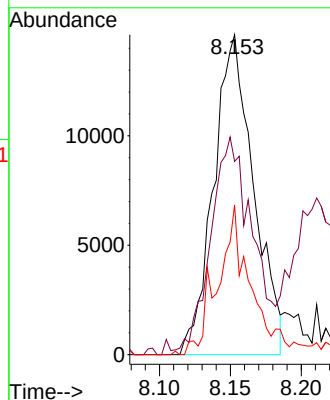
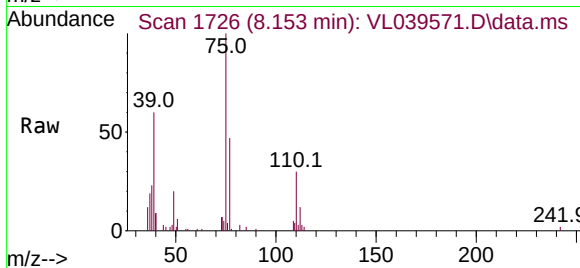
Tgt Ion: 75 Resp: 28718

Ion Ratio Lower Upper

75 100

39 58.4 52.8 79.2

77 46.8 25.3 37.9#



#47

1,1,2-Trichloroethane

Concen: 0.165 ppbv

RT: 8.915 min Scan# 1963

Delta R.T. 0.010 min

Lab File: VL039571.D

Acq: 18 Aug 2022 23:04

Tgt Ion: 97 Resp: 13650

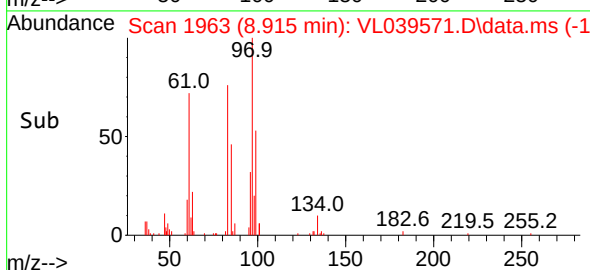
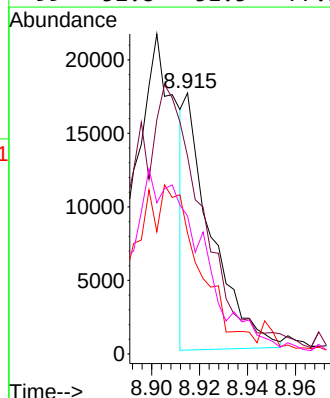
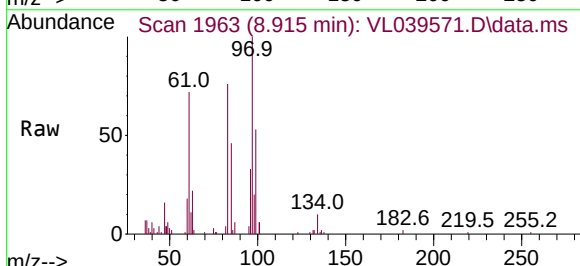
Ion Ratio Lower Upper

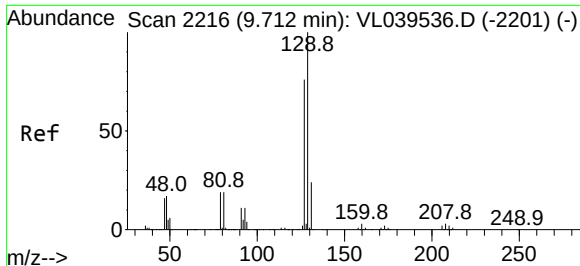
97 100

83 71.5 70.8 106.2

85 45.6 45.4 68.2

99 52.8 51.5 77.3





#48

Dibromochloromethane

Concen: 0.204 ppbv

RT: 9.709 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL039571.D

Acq: 18 Aug 2022 23:04

Instrument :

MSVOA_L

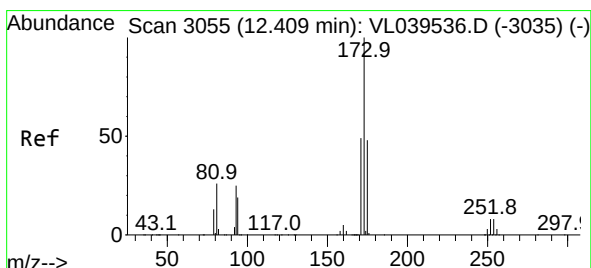
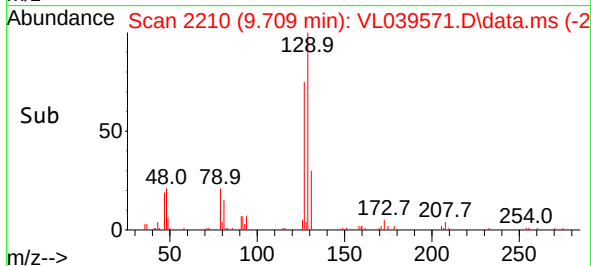
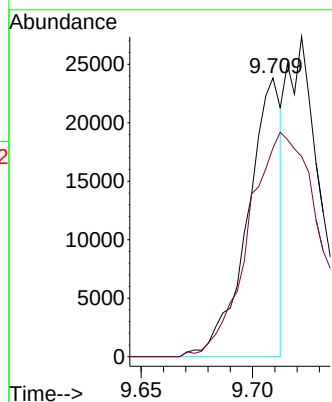
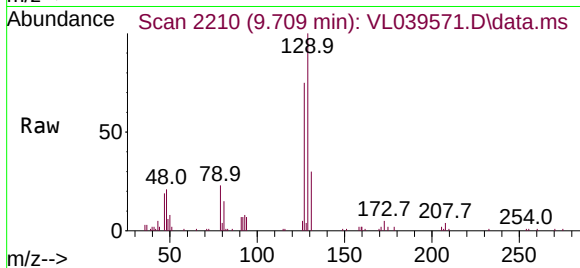
ClientSampleId :

Tgt Ion:129 Resp: 25073

Ion Ratio Lower Upper

129 100

127 181.9 38.8 116.3#



#49

Bromoform

Concen: 0.259 ppbv

RT: 12.413 min Scan# 3051

Delta R.T. 0.004 min

Lab File: VL039571.D

Acq: 18 Aug 2022 23:04

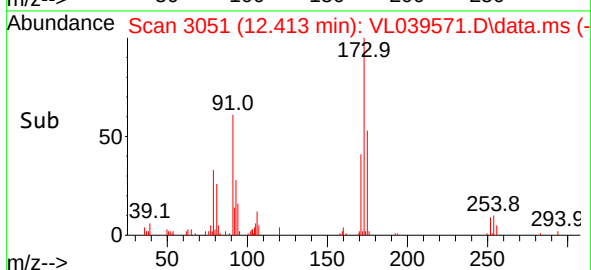
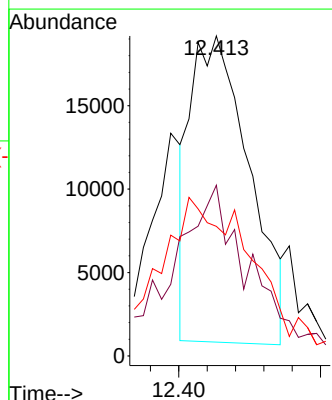
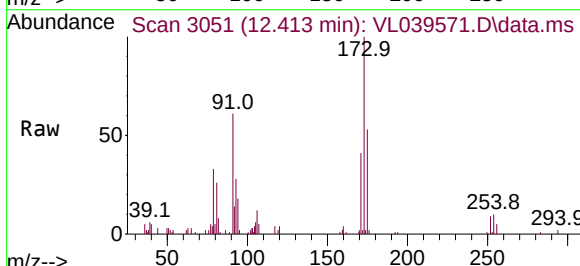
Tgt Ion:173 Resp: 26410

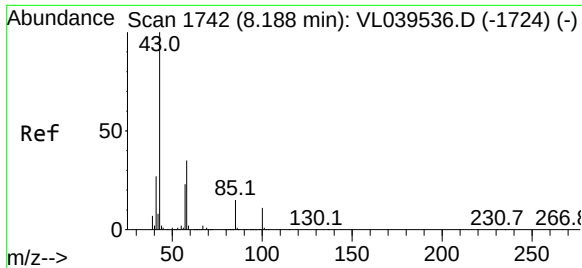
Ion Ratio Lower Upper

173 100

175 80.5 0.0 0.0#

171 0.0 0.0 0.0

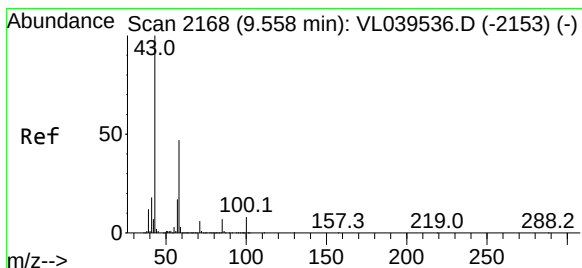
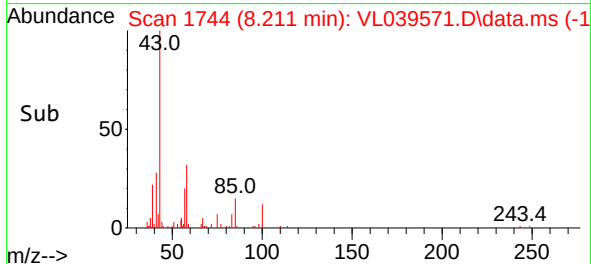
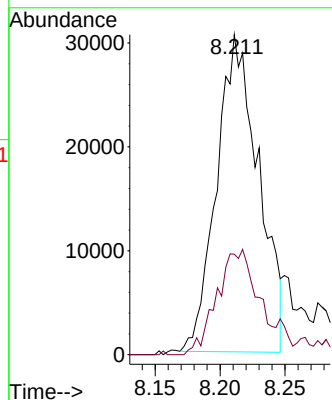
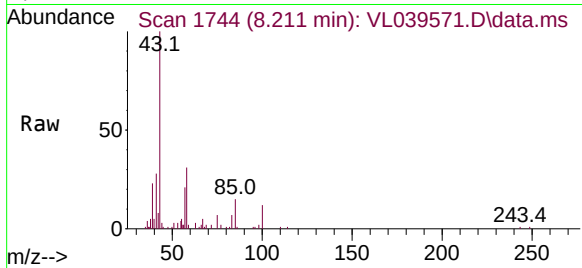




#50
4-Methyl-2-Pentanone
Concen: 0.350 ppbv
RT: 8.211 min Scan# 1
Delta R.T. 0.023 min
Lab File: VL039571.D
Acq: 18 Aug 2022 23:04

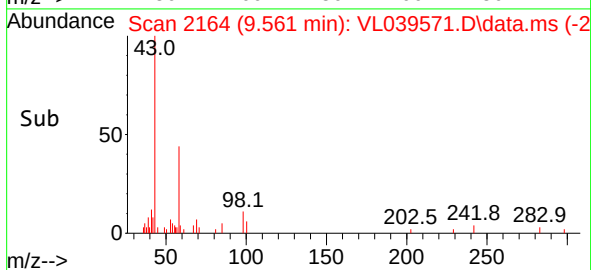
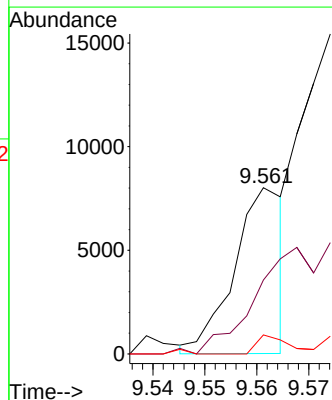
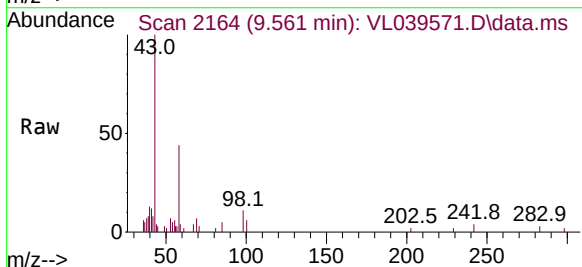
Instrument :
MSVOA_L
ClientSampleId :

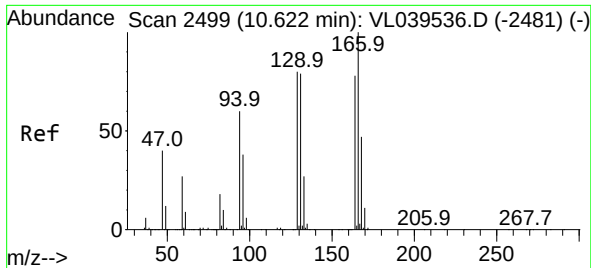
Tgt Ion: 43 Resp: 68476
Ion Ratio Lower Upper
43 100
58 37.9 28.0 42.0



#51
2-Hexanone
Concen: 0.037 ppbv
RT: 9.561 min Scan# 2164
Delta R.T. 0.004 min
Lab File: VL039571.D
Acq: 18 Aug 2022 23:04

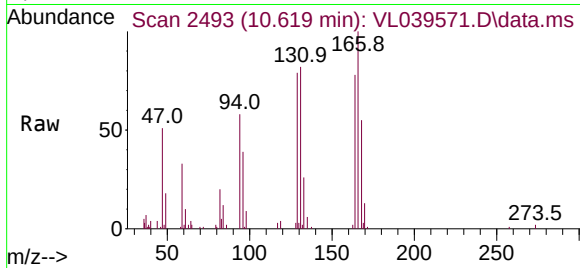
Tgt Ion: 43 Resp: 5346
Ion Ratio Lower Upper
43 100
58 0.0 37.5 56.3#
98 0.0 0.5 0.7#



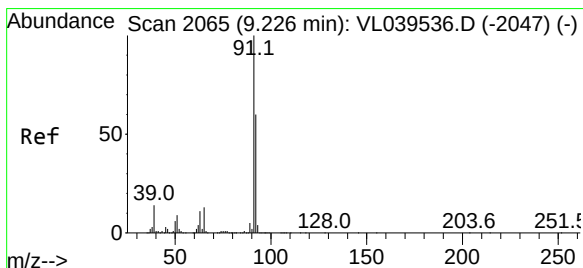
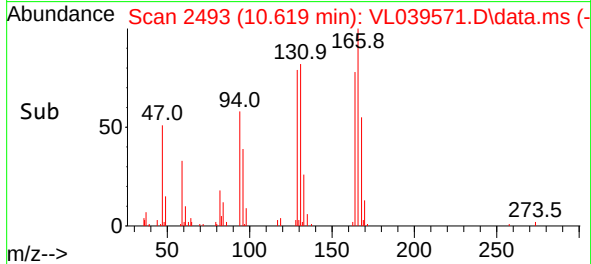
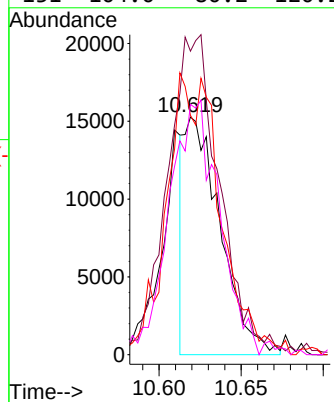


#52
Tetrachloroethene
Concen: 0.310 ppbv
RT: 10.619 min Scan# 2493
Delta R.T. -0.003 min
Lab File: VL039571.D
Acq: 18 Aug 2022 23:04

Instrument :
MSVOA_L
ClientSampleId :

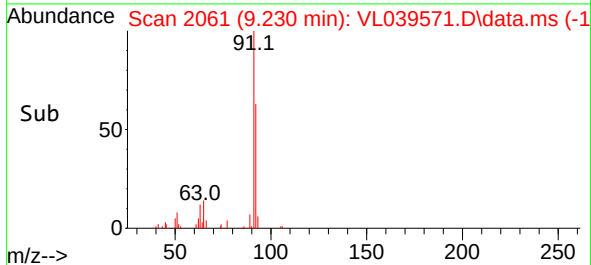
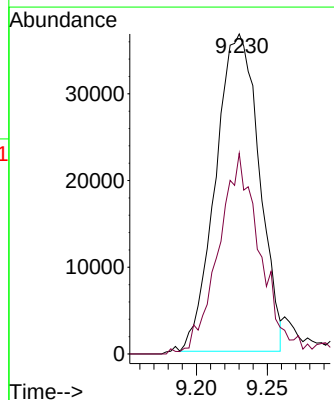
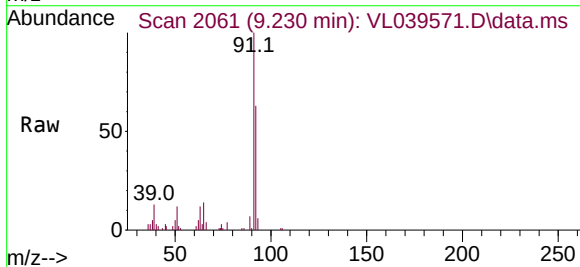


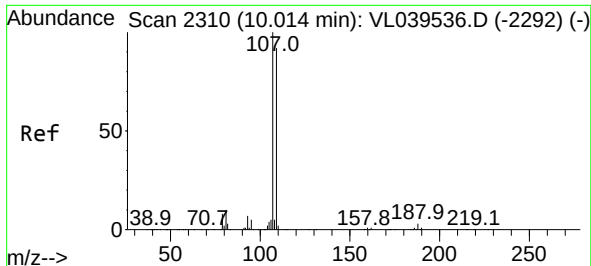
Tgt Ion:164 Resp: 23435
Ion Ratio Lower Upper
164 100
166 126.3 102.0 153.0
129 99.8 81.7 122.5
131 104.0 80.2 120.2



#53
Toluene
Concen: 0.363 ppbv
RT: 9.230 min Scan# 2061
Delta R.T. 0.004 min
Lab File: VL039571.D
Acq: 18 Aug 2022 23:04

Tgt Ion: 91 Resp: 78395
Ion Ratio Lower Upper
91 100
92 62.3 47.9 71.9

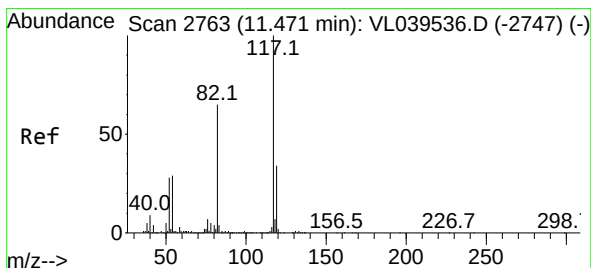
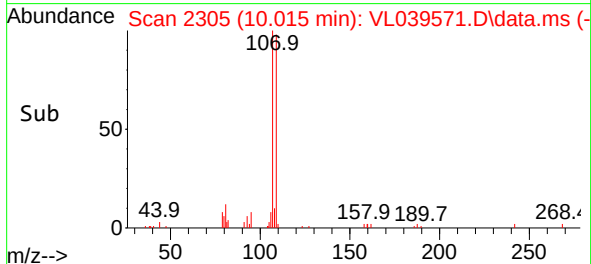
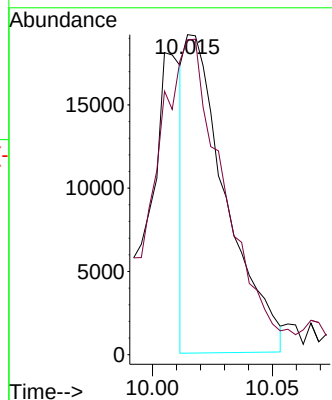
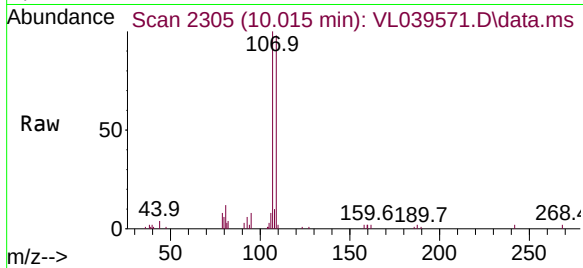




#54
1,2-Dibromoethane
Concen: 0.242 ppbv
RT: 10.015 min Scan# 21
Delta R.T. 0.001 min
Lab File: VL039571.D
Acq: 18 Aug 2022 23:04

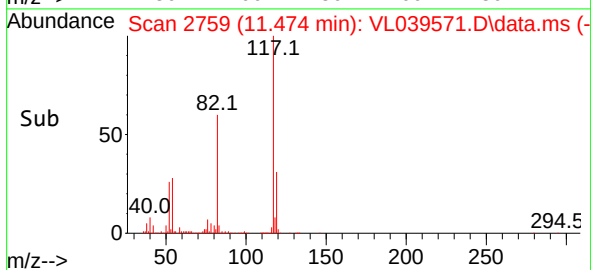
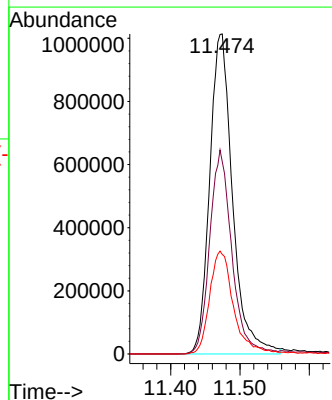
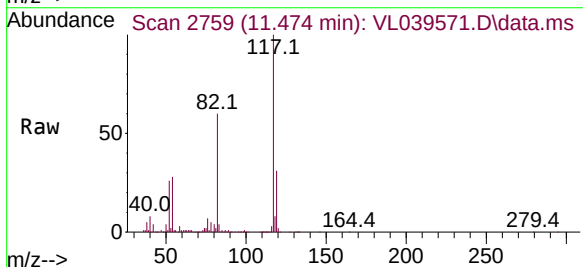
Instrument :
MSVOA_L
ClientSampleId :

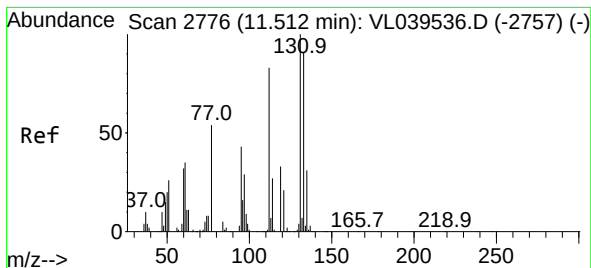
Tgt Ion:107 Resp: 22812
Ion Ratio Lower Upper
107 100
109 99.8 73.4 110.2



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.474 min Scan# 2759
Delta R.T. 0.004 min
Lab File: VL039571.D
Acq: 18 Aug 2022 23:04

Tgt Ion:117 Resp: 2322749
Ion Ratio Lower Upper
117 100
82 63.0 49.1 73.7
119 33.8 25.9 38.9





#56

1,1,1,2-Tetrachloroethane

Concen: 0.558 ppbv

RT: 11.510 min Scan# 2776

Delta R.T. -0.003 min

Lab File: VL039571.D

Acq: 18 Aug 2022 23:04

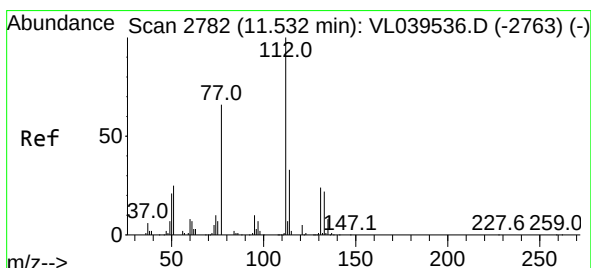
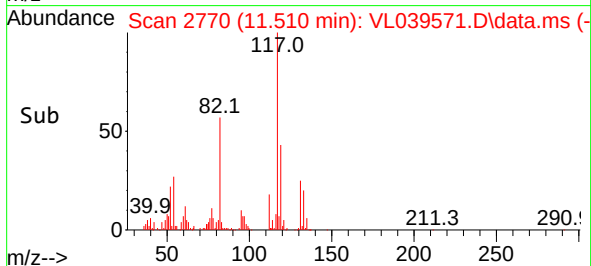
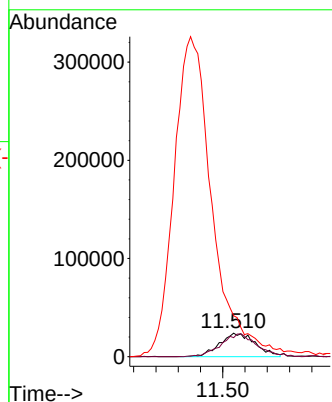
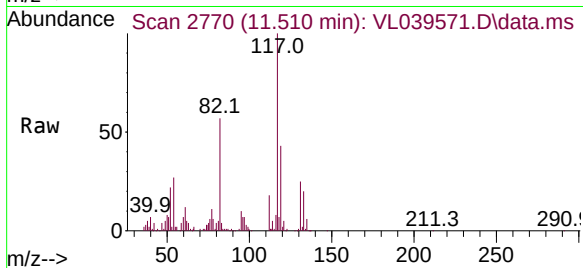
Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:131 Resp: 53374

Ion	Ratio	Lower	Upper
131	100		
133	97.8	75.4	113.2
119	1481.6	47.4	71.2#



#57

Chlorobenzene

Concen: 0.534 ppbv

RT: 11.532 min Scan# 2777

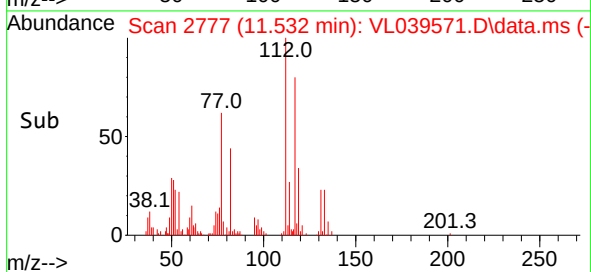
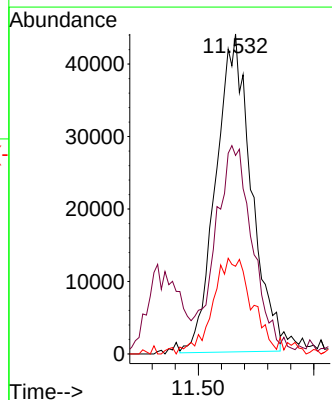
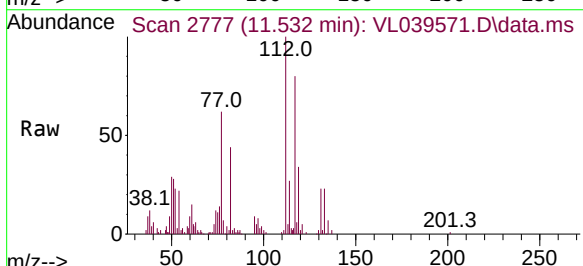
Delta R.T. 0.001 min

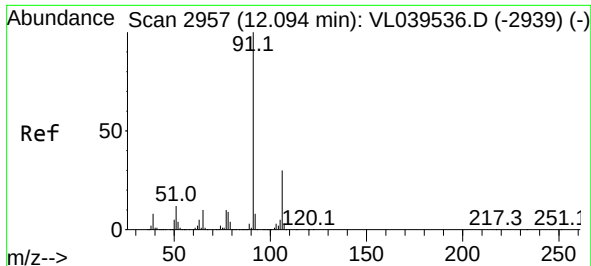
Lab File: VL039571.D

Acq: 18 Aug 2022 23:04

Tgt Ion:112 Resp: 93173

Ion	Ratio	Lower	Upper
112	100		
77	59.4	53.4	80.0
114	25.5	29.5	36.1#

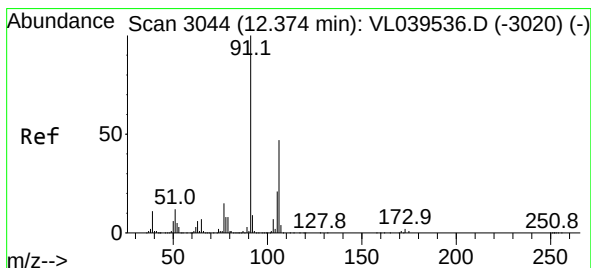
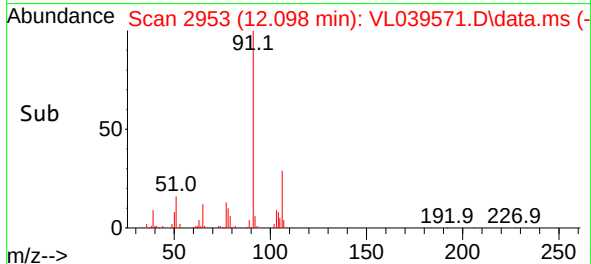
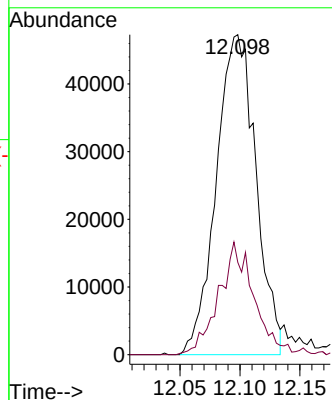
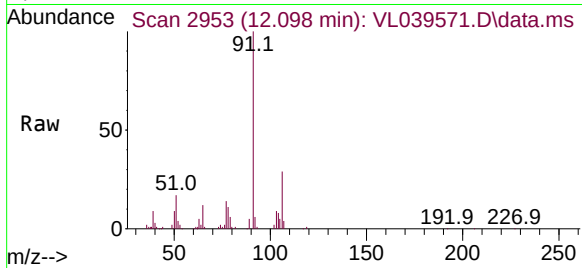




#58
Ethyl Benzene
Concen: 0.405 ppbv
RT: 12.098 min Scan# 2953
Delta R.T. 0.004 min
Lab File: VL039571.D
Acq: 18 Aug 2022 23:04

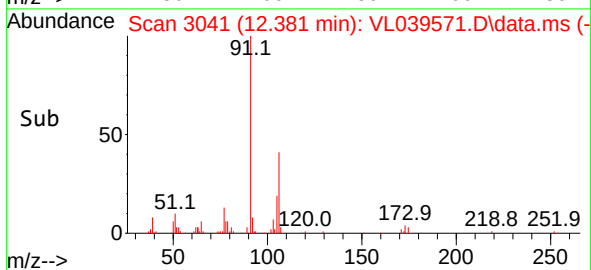
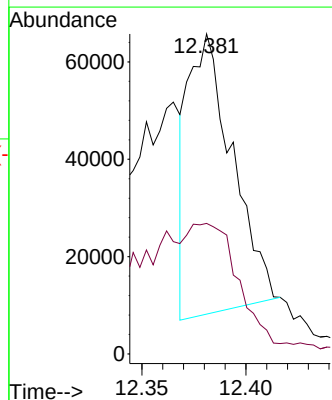
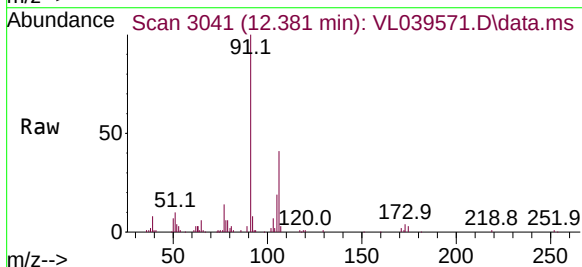
Instrument :
MSVOA_L
ClientSampleId :

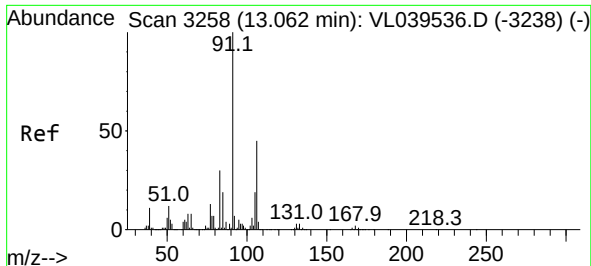
Tgt Ion: 91 Resp: 108820
Ion Ratio Lower Upper
91 100
106 28.5 24.2 36.4



#59
m/p-Xylene
Concen: 0.351 ppbv
RT: 12.381 min Scan# 3041
Delta R.T. 0.007 min
Lab File: VL039571.D
Acq: 18 Aug 2022 23:04

Tgt Ion: 91 Resp: 84923
Ion Ratio Lower Upper
91 100
106 116.0 0.0 0.0#

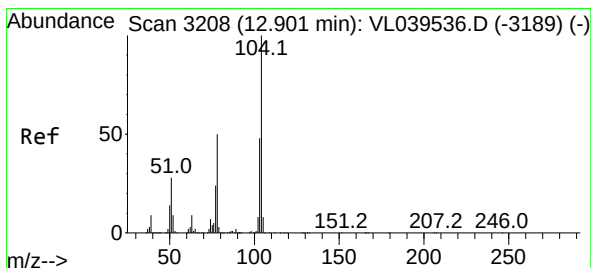
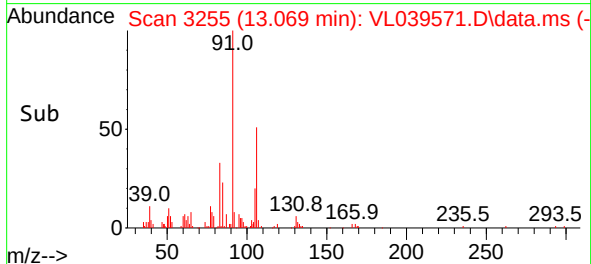
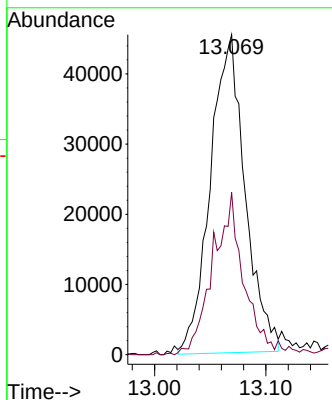
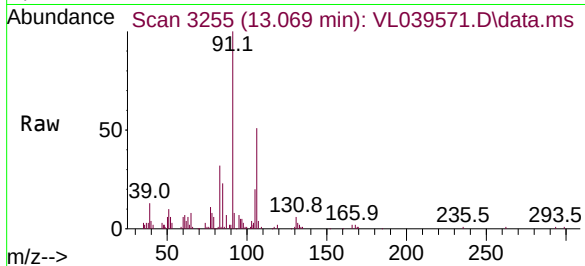




#60
o-Xylene
Concen: 0.423 ppbv
RT: 13.069 min Scan# 31
Delta R.T. 0.007 min
Lab File: VL039571.D
Acq: 18 Aug 2022 23:04

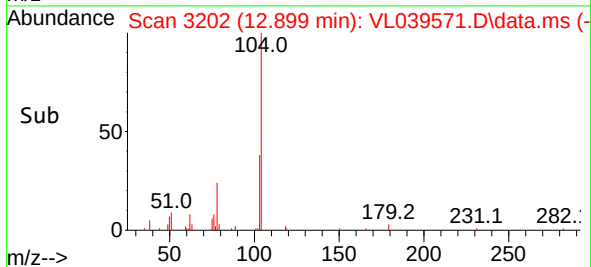
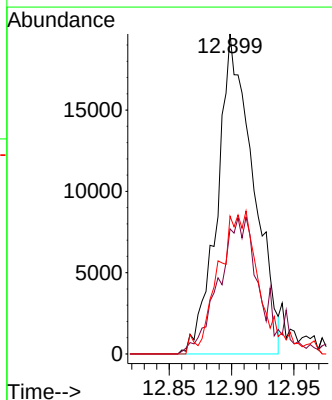
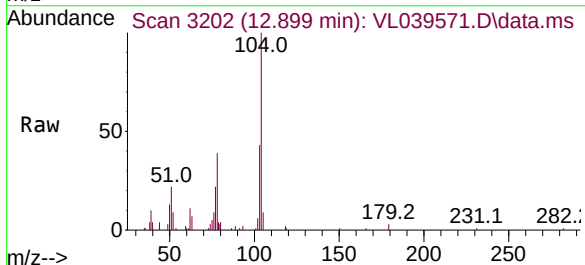
Instrument :
MSVOA_L
ClientSampleId :

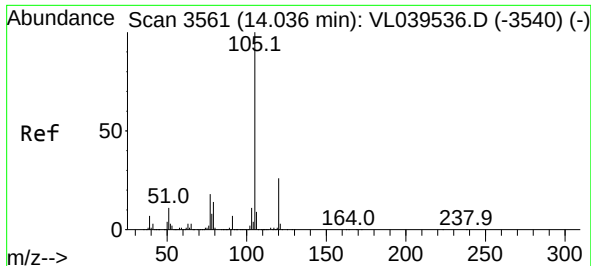
Tgt Ion: 91 Resp: 98193
Ion Ratio Lower Upper
91 100
106 46.5 22.7 68.0



#61
Styrene
Concen: 0.319 ppbv
RT: 12.899 min Scan# 3202
Delta R.T. -0.003 min
Lab File: VL039571.D
Acq: 18 Aug 2022 23:04

Tgt Ion:104 Resp: 39457
Ion Ratio Lower Upper
104 100
78 52.5 40.0 60.0
103 52.3 38.2 57.2

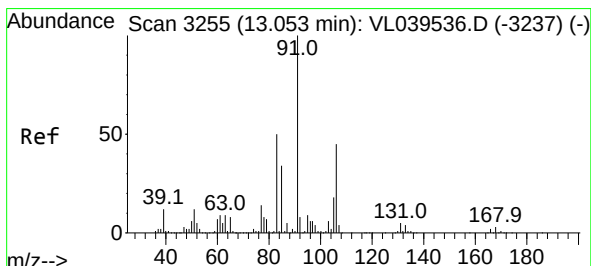
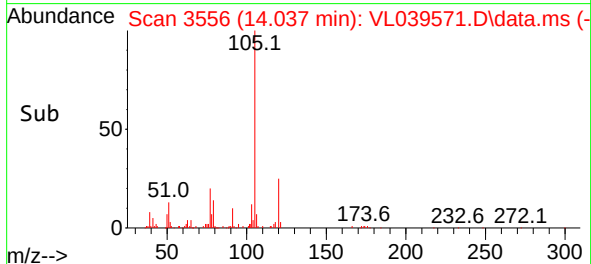
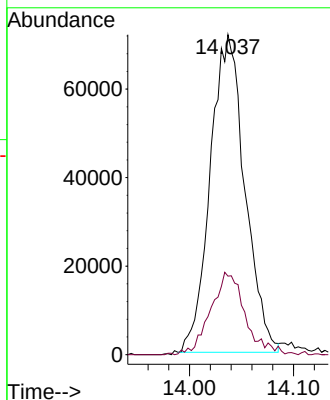
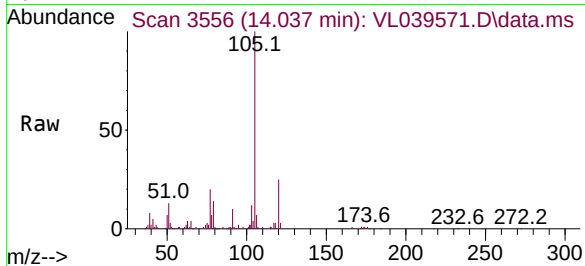




#62
Isopropylbenzene
Concen: 0.474 ppbv
RT: 14.037 min Scan# 31
Delta R.T. 0.001 min
Lab File: VL039571.D
Acq: 18 Aug 2022 23:04

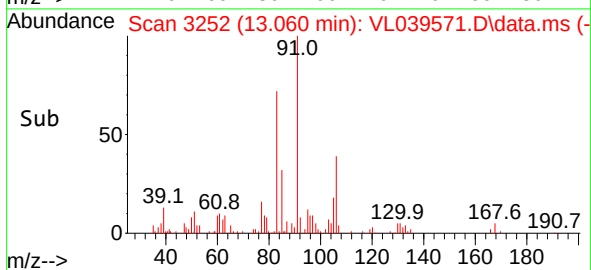
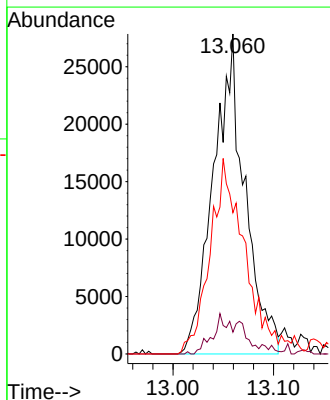
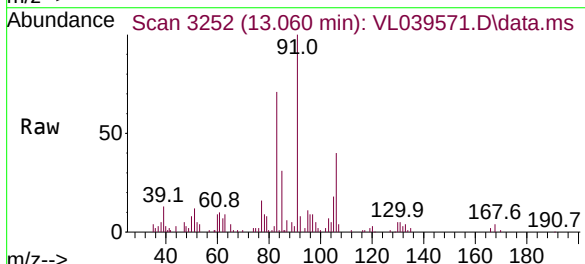
Instrument :
MSVOA_L
ClientSampleId :

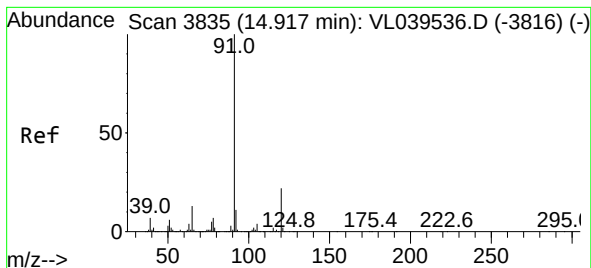
Tgt Ion:105 Resp: 166197
Ion Ratio Lower Upper
105 100
120 25.8 20.6 30.8



#63
1,1,2,2-Tetrachloroethane
Concen: 0.519 ppbv
RT: 13.060 min Scan# 3252
Delta R.T. 0.007 min
Lab File: VL039571.D
Acq: 18 Aug 2022 23:04

Tgt Ion: 83 Resp: 60503
Ion Ratio Lower Upper
83 100
131 12.2 4.9 14.7
85 68.1 33.2 99.6





#64

n-propylbenzene

Concen: 0.124 ppbv

RT: 14.918 min Scan# 3830

Delta R.T. 0.001 min

Lab File: VL039571.D

Acq: 18 Aug 2022 23:04

Instrument :

MSVOA_L

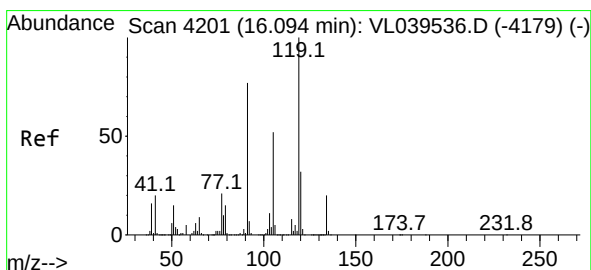
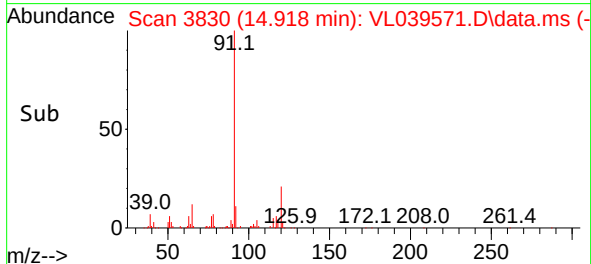
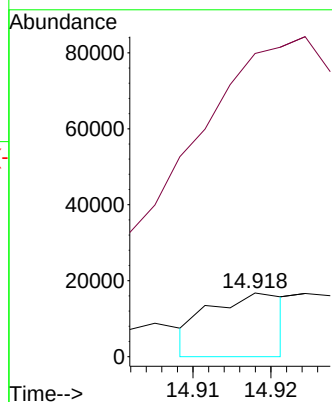
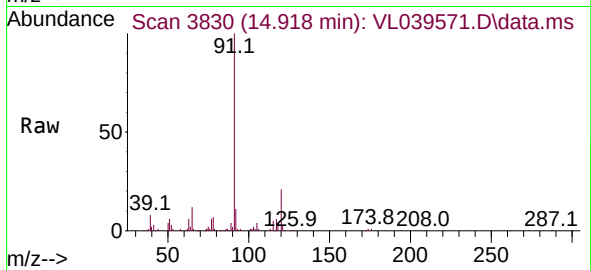
ClientSampleId :

Tgt Ion:120 Resp: 11362

Ion Ratio Lower Upper

120 100

91 0.0 372.6 559.0#



#65

tert-Butylbenzene

Concen: 0.254 ppbv

RT: 16.098 min Scan# 4197

Delta R.T. 0.004 min

Lab File: VL039571.D

Acq: 18 Aug 2022 23:04

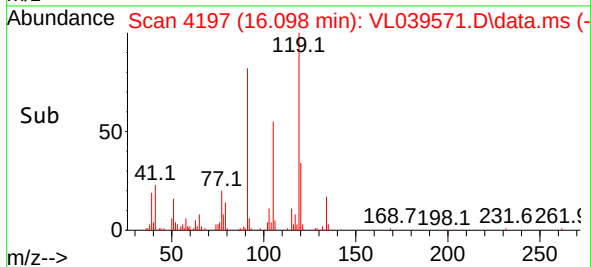
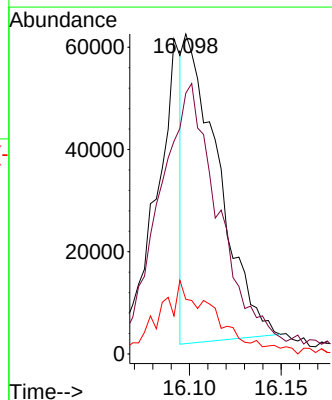
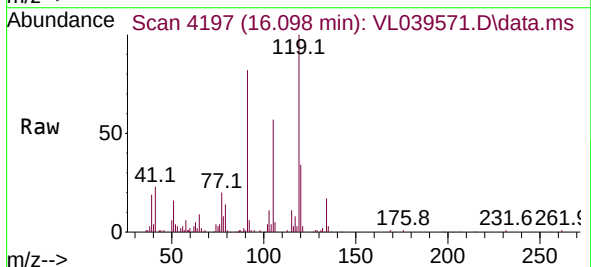
Tgt Ion:119 Resp: 79381

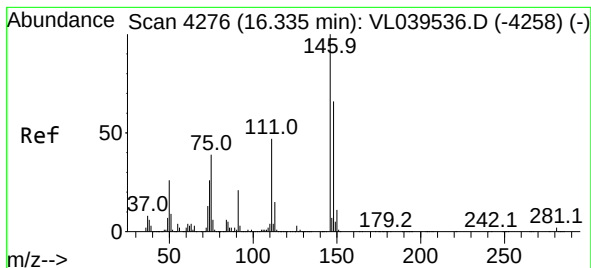
Ion Ratio Lower Upper

119 100

91 163.9 63.8 95.8#

134 40.6 15.4 23.2#





#66

Benzyl Chloride

Concen: 0.069 ppbv

RT: 16.339 min Scan# 41

Delta R.T. 0.004 min

Lab File: VL039571.D

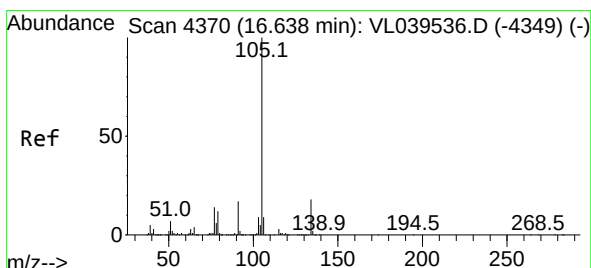
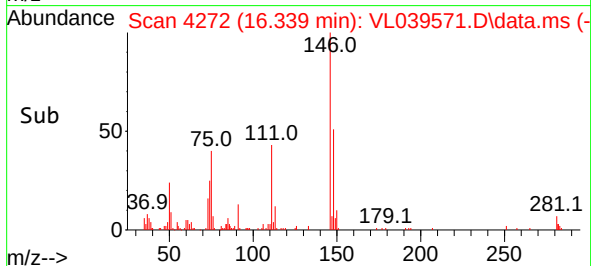
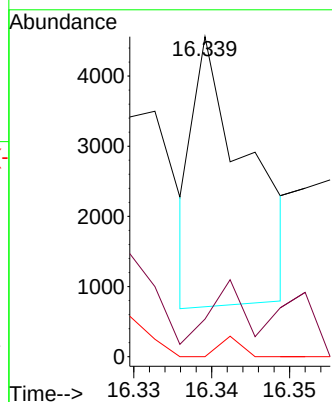
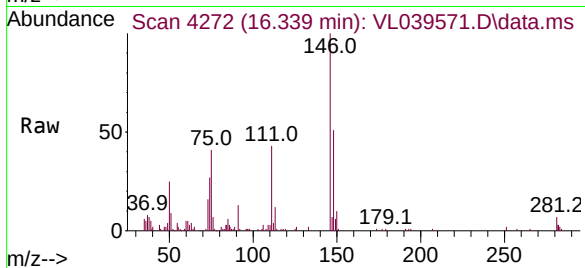
Acq: 18 Aug 2022 23:04

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:	91	Resp:	1852
Ion Ratio	Lower	Upper	
91	100		
126	93.9	0.0	0.0#
128	23.8	1.5	2.3#



#67

sec-Butylbenzene

Concen: 0.501 ppbv

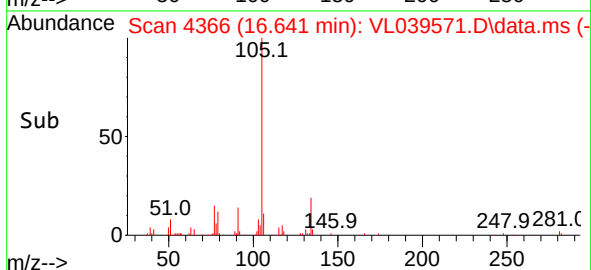
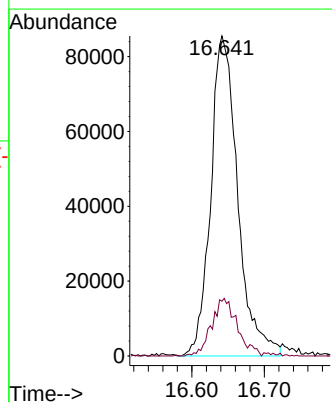
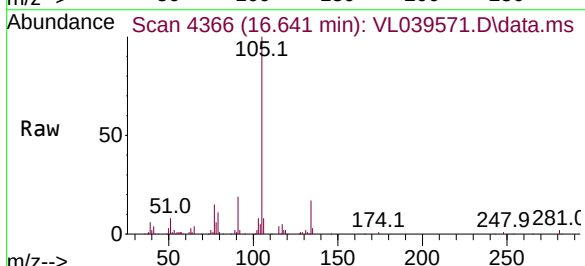
RT: 16.641 min Scan# 4366

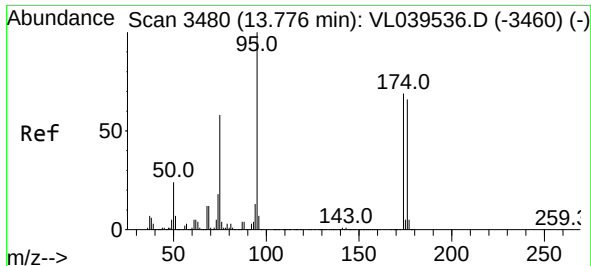
Delta R.T. 0.004 min

Lab File: VL039571.D

Acq: 18 Aug 2022 23:04

Tgt Ion:	105	Resp:	221360
Ion Ratio	Lower	Upper	
105	100		
134	17.6	14.3	21.5

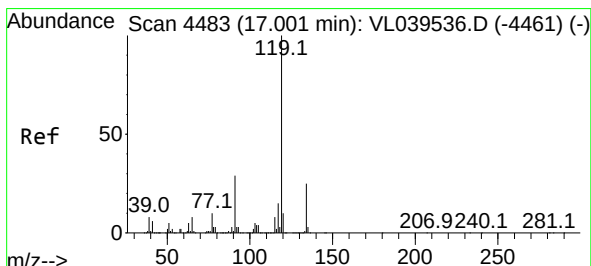
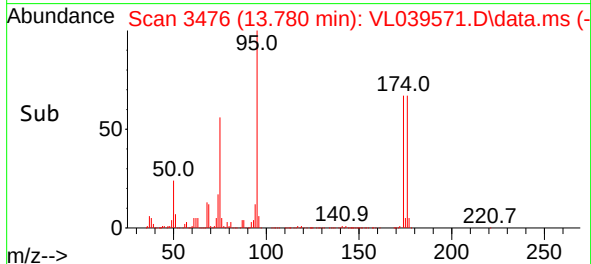
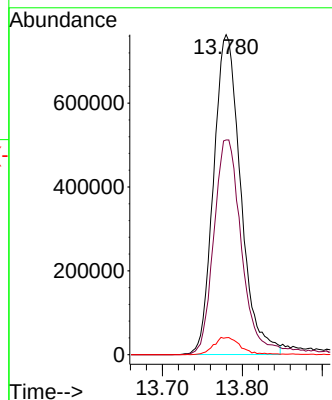
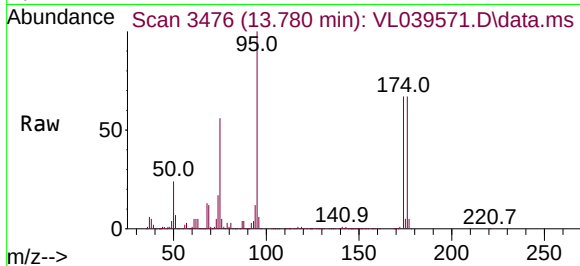




#68
1-Bromo-4-Fluorobenzene
Concen: 10.283 ppbv
RT: 13.780 min Scan# 3480
Delta R.T. 0.004 min
Lab File: VL039571.D
Acq: 18 Aug 2022 23:04

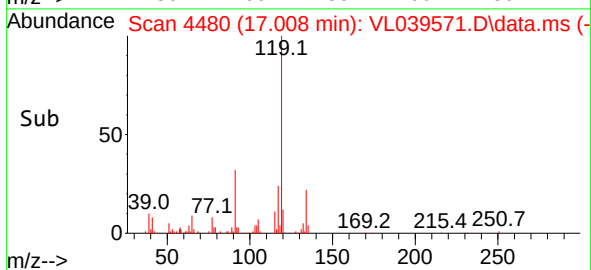
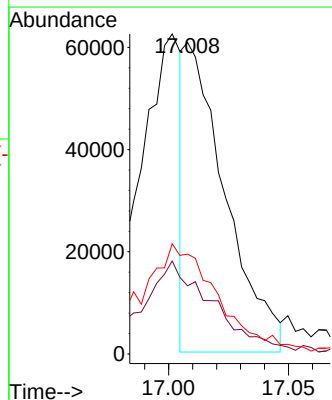
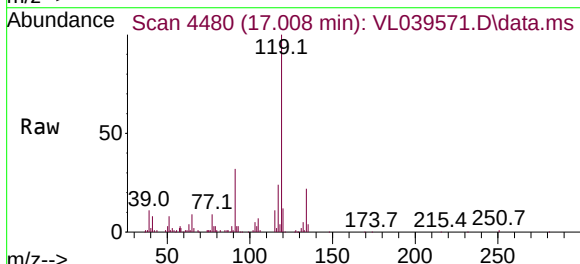
Instrument :
MSVOA_L
ClientSampleId :

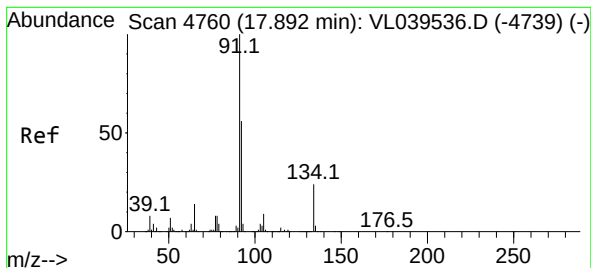
Tgt Ion: 95 Resp: 1798032
Ion Ratio Lower Upper
95 100
174 71.0 56.3 84.5
175 5.6 4.3 6.5



#69
p-Isopropyltoluene
Concen: 0.195 ppbv
RT: 17.008 min Scan# 4480
Delta R.T. 0.007 min
Lab File: VL039571.D
Acq: 18 Aug 2022 23:04

Tgt Ion: 119 Resp: 71588
Ion Ratio Lower Upper
119 100
134 0.0 19.8 29.6#
91 0.0 22.6 33.8#





#70

n-Butylbenzene

Concen: 0.189 ppbv

RT: 17.902 min Scan# 4760

Delta R.T. 0.010 min

Lab File: VL039571.D

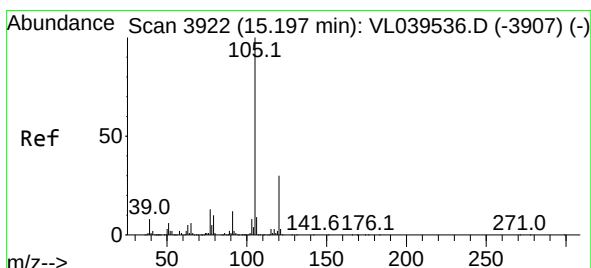
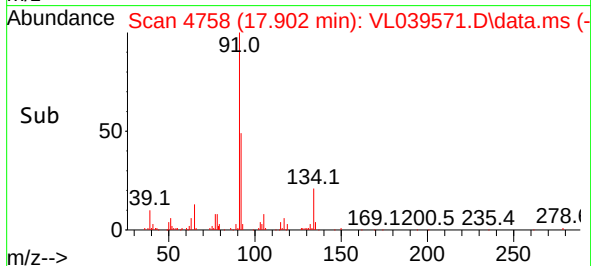
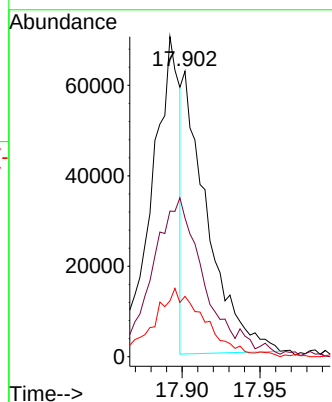
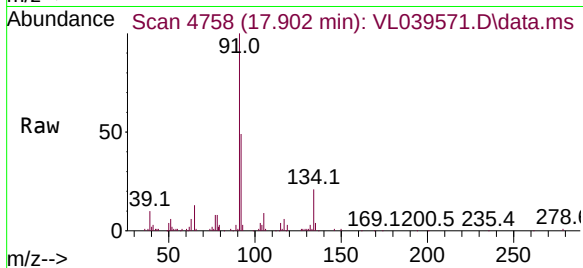
Acq: 18 Aug 2022 23:04

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:	91	Resp:	69116
Ion	Ratio	Lower	Upper
91	100		
92	122.3	43.0	64.6#
134	50.8	18.1	27.1#



#72

4-Ethyltoluene

Concen: 0.422 ppbv

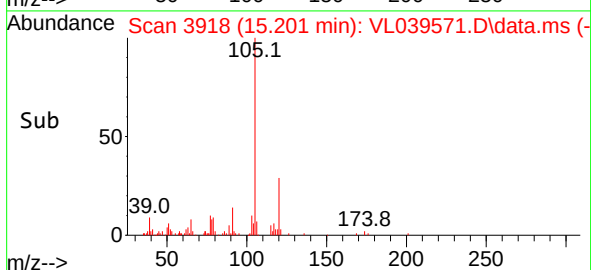
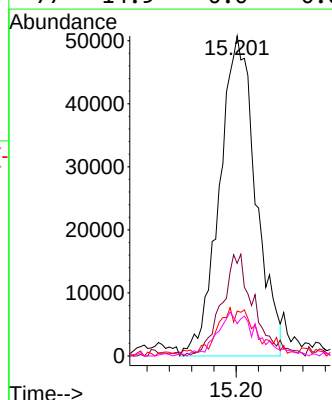
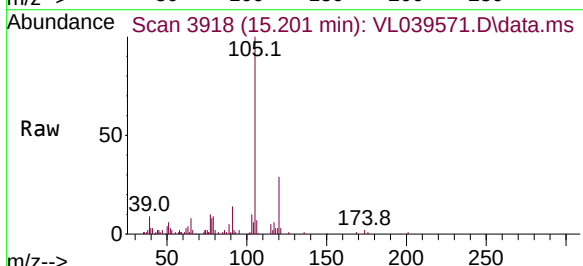
RT: 15.201 min Scan# 3918

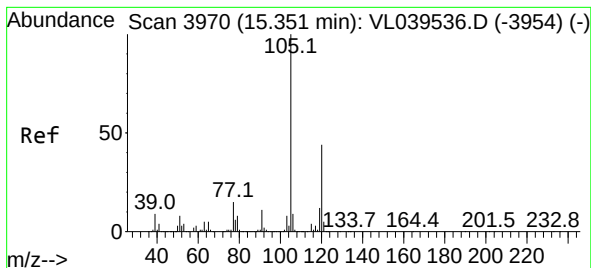
Delta R.T. 0.004 min

Lab File: VL039571.D

Acq: 18 Aug 2022 23:04

Tgt Ion:	105	Resp:	115045
Ion	Ratio	Lower	Upper
105	100		
120	28.5	0.0	0.0#
91	18.9	0.0	0.0#
77	14.9	0.0	0.0#





#73

1,3,5-Trimethylbenzene

Concen: 0.401 ppbv

RT: 15.362 min Scan# 3970

Delta R.T. 0.010 min

Lab File: VL039571.D

Acq: 18 Aug 2022 23:04

Instrument :

MSVOA_L

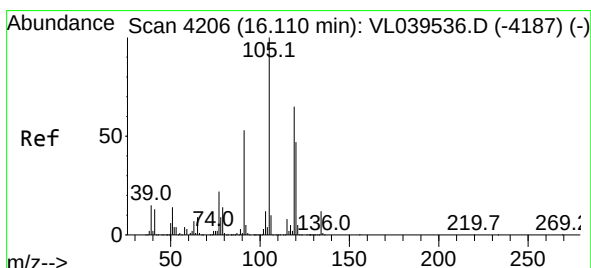
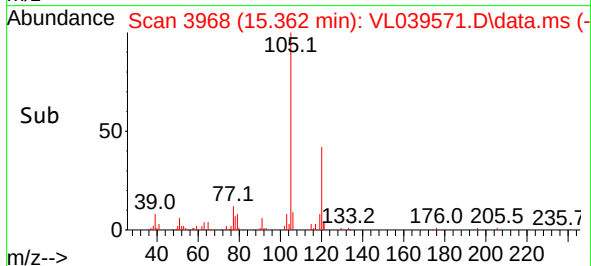
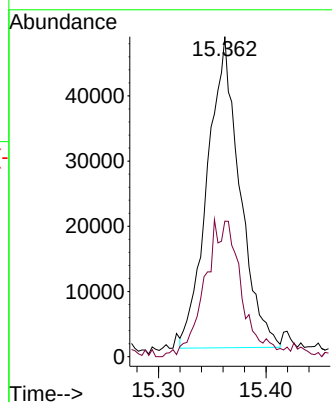
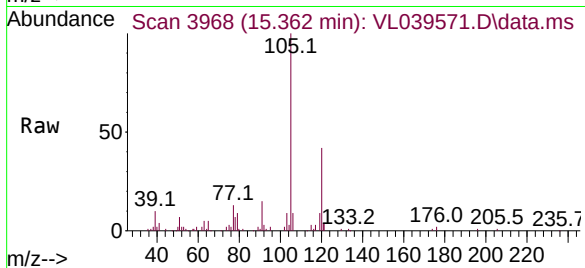
ClientSampleId :

Tgt Ion:105 Resp: 99886

Ion Ratio Lower Upper

105 100

120 45.1 35.4 53.2



#74

1,2,4-Trimethylbenzene

Concen: 0.479 ppbv

RT: 16.111 min Scan# 4201

Delta R.T. 0.001 min

Lab File: VL039571.D

Acq: 18 Aug 2022 23:04

Tgt Ion:105 Resp: 132970

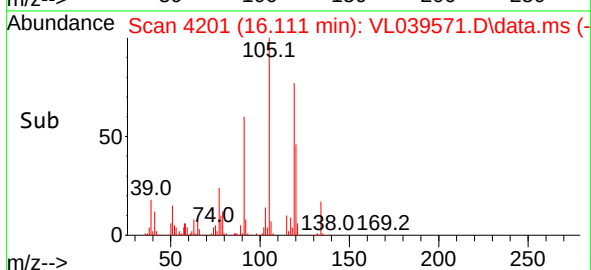
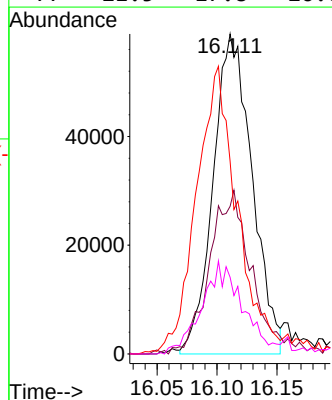
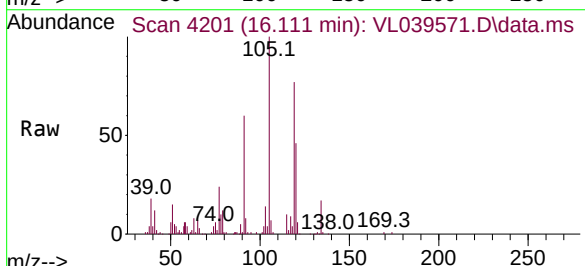
Ion Ratio Lower Upper

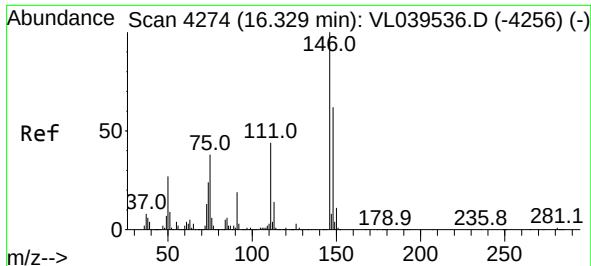
105 100

120 44.4 37.8 56.8

91 56.2 43.8 65.6

77 21.5 17.8 26.6

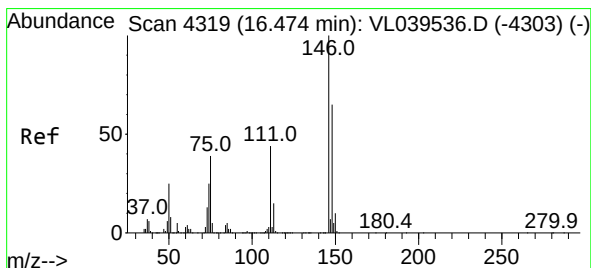
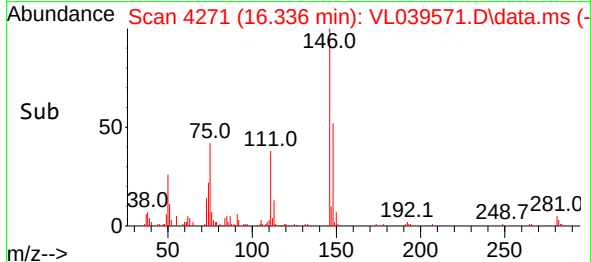
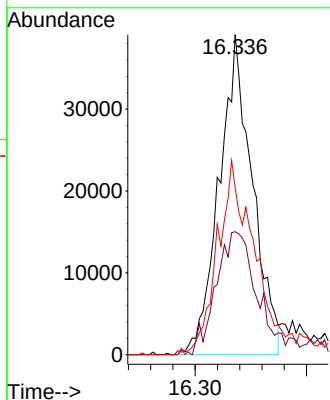
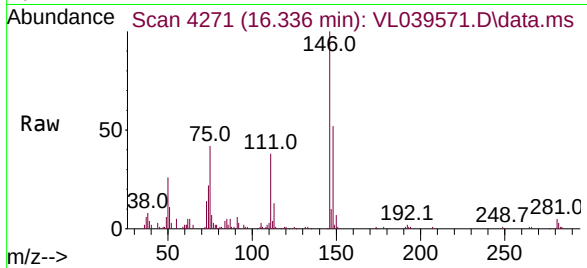




#75
1,3-Dichlorobenzene
Concen: 0.480 ppbv
RT: 16.336 min Scan# 41
Delta R.T. 0.007 min
Lab File: VL039571.D
Acq: 18 Aug 2022 23:04

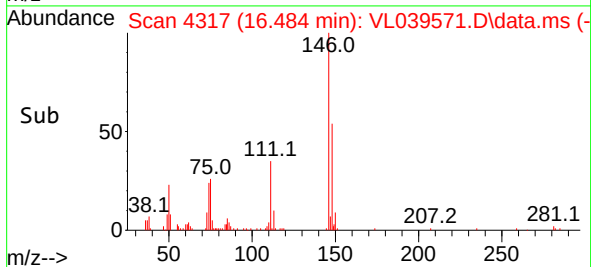
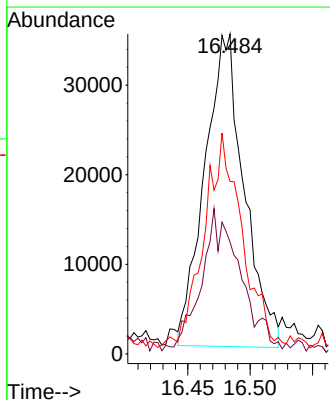
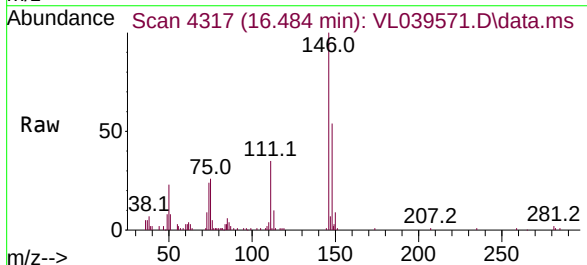
Instrument :
MSVOA_L
ClientSampleId :

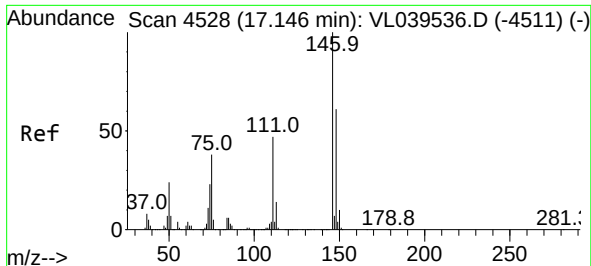
Tgt Ion:146 Resp: 80858
Ion Ratio Lower Upper
146 100
111 48.6 22.9 68.5
148 71.2 32.4 97.0



#76
1,4-Dichlorobenzene
Concen: 0.455 ppbv
RT: 16.484 min Scan# 4317
Delta R.T. 0.010 min
Lab File: VL039571.D
Acq: 18 Aug 2022 23:04

Tgt Ion:146 Resp: 76807
Ion Ratio Lower Upper
146 100
111 46.4 22.3 66.8
148 72.3 31.5 94.5

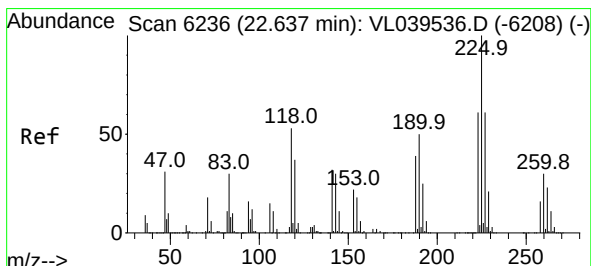
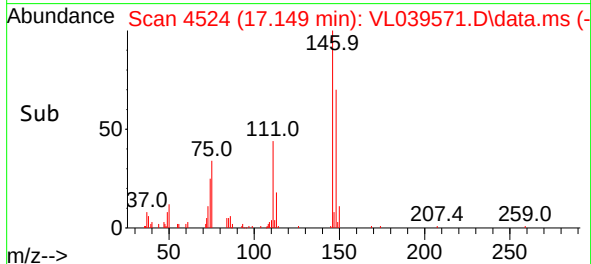
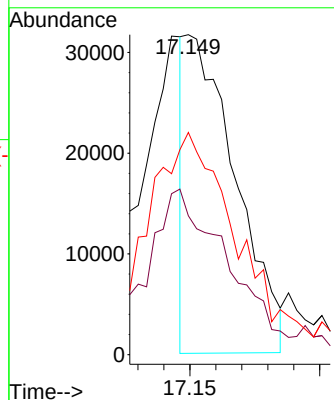
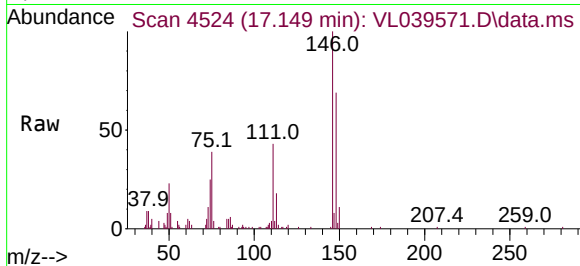




#77
 1,2-Dichlorobenzene
 Concen: 0.257 ppbv
 RT: 17.149 min Scan# 4528
 Delta R.T. 0.004 min
 Lab File: VL039571.D
 Acq: 18 Aug 2022 23:04

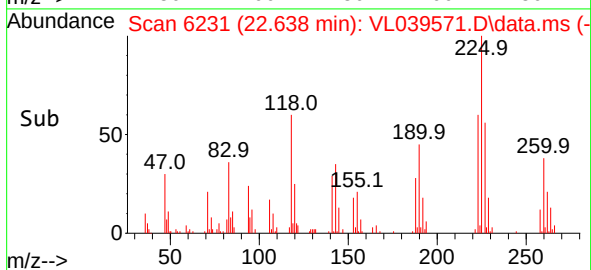
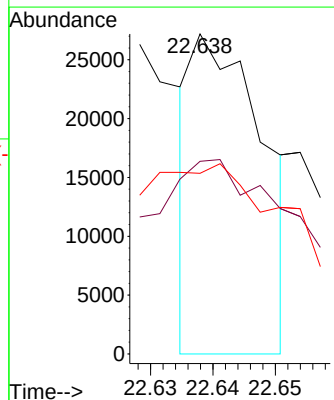
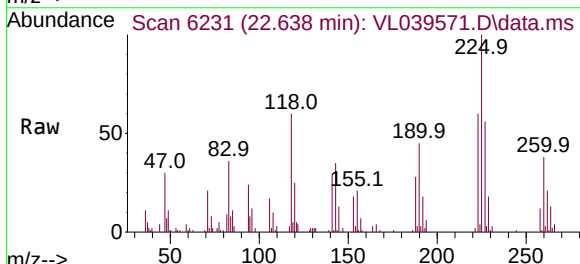
Instrument :
 MSVOA_L
 ClientSampleId :

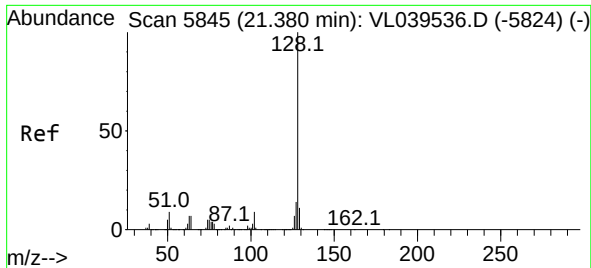
Tgt Ion:146 Resp: 42496
 Ion Ratio Lower Upper
 146 100
 111 97.0 23.9 71.8#
 148 141.2 32.6 97.7#



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.163 ppbv
 RT: 22.638 min Scan# 6231
 Delta R.T. 0.001 min
 Lab File: VL039571.D
 Acq: 18 Aug 2022 23:04

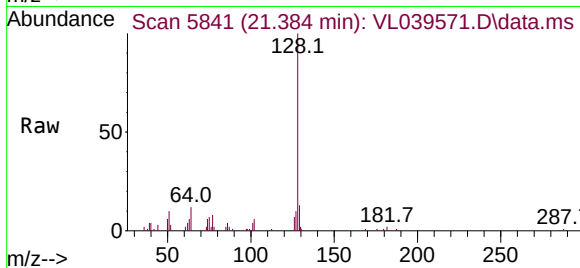
Tgt Ion:225 Resp: 21433
 Ion Ratio Lower Upper
 225 100
 223 222.7 0.0 0.0#
 227 218.2 0.0 0.0#



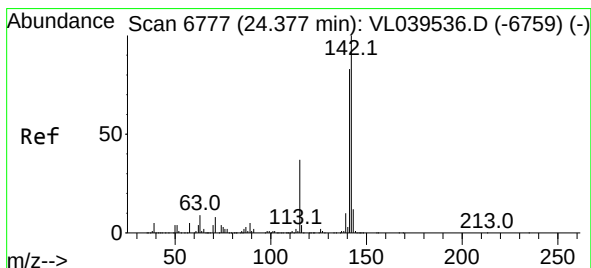
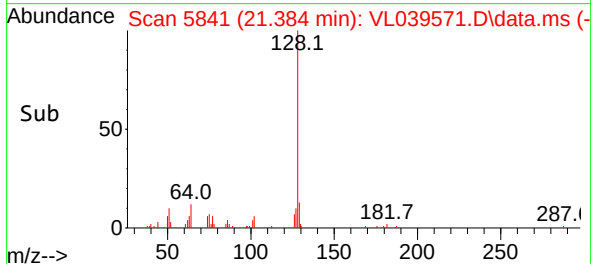
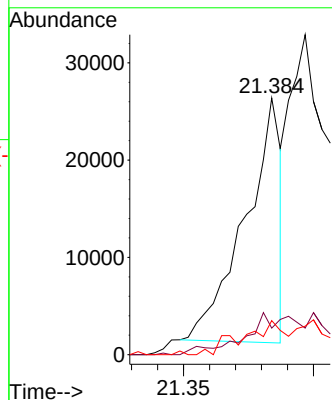


#79
Naphthalene
Concen: 0.122 ppbv
RT: 21.384 min Scan# 5841
Delta R.T. 0.004 min
Lab File: VL039571.D
Acq: 18 Aug 2022 23:04

Instrument :
MSVOA_L
ClientSampleId :

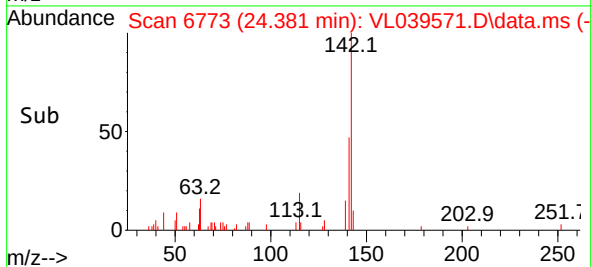
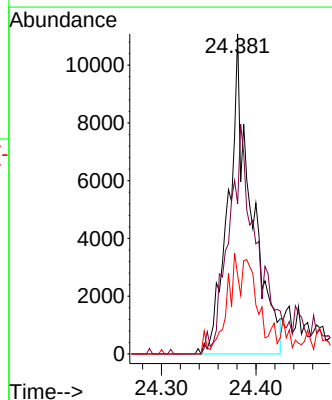
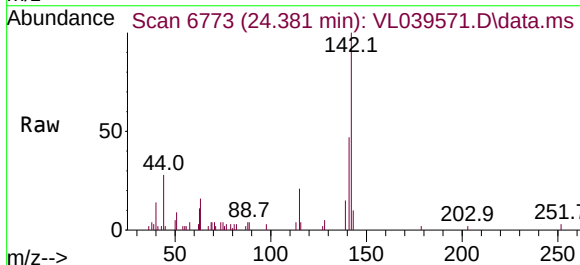


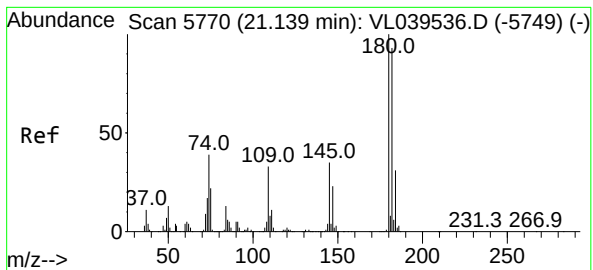
Tgt Ion:128 Resp: 24058
Ion Ratio Lower Upper
128 100
127 11.0 10.8 16.2
129 14.4 9.1 13.7#



#80
Naphthalene,2-methyl-
Concen: 0.236 ppbv
RT: 24.381 min Scan# 6773
Delta R.T. 0.004 min
Lab File: VL039571.D
Acq: 18 Aug 2022 23:04

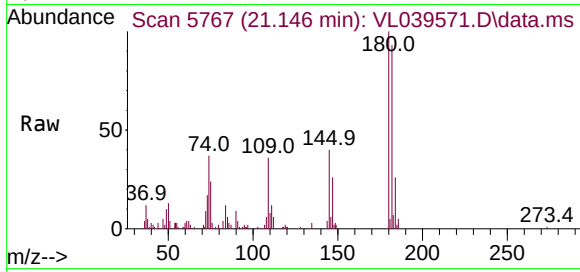
Tgt Ion:142 Resp: 18392
Ion Ratio Lower Upper
142 100
141 107.8 0.0 0.0#
115 44.4 0.0 0.0#





#81
 1,2,4-Trichlorobenzene
 Concen: 0.417 ppbv
 RT: 21.146 min Scan# 51
 Delta R.T. 0.007 min
 Lab File: VL039571.D
 Acq: 18 Aug 2022 23:04

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion:	180	Resp:	54911
Ion	Ratio	Lower	Upper
180	100		
182	100.2	0.0	0.0#
184	32.4	0.0	0.0#

