

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL071423\
 Data File : VL040531.D
 Acq On : 14 Jul 2023 17:25
 Operator : SY/MD
 Sample : 03636-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Quant Time: Jul 16 23:31:32 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Jul 10 16:32:00 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.195	49	951827	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2418501	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	2212572	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	13.783	95	1916878	10.947	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	109.500%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.735	85	81862	0.430	ppbv	94
3) Chlorodifluoromethane	3.073	51	11205	0.074	ppbv	93
4) Chloromethane	2.819	50	42857	0.717	ppbv	97
9) Propene	2.700	41	482988	9.351	ppbv	98
10) Heptane	7.581	43	350546	3.074	ppbv	99
11) Trichlorofluoromethane	3.568	101	43055	0.280	ppbv	91
12) 1,1,2-Trichlorotrifluo...	4.073	101	7908	0.073	ppbv	91
13) Ethanol	3.250	45	70895	6.309	ppbv	94
15) Acetone	3.472	43	1131049	10.323	ppbv #	65
16) 1,3-Butadiene	2.973	39	25783	0.466	ppbv #	49
17) tert-Butyl alcohol	3.890	59	15621	0.138	ppbv #	71
19) Isopropyl Alcohol	3.584	45	29025	0.461	ppbv #	1
20) Methylene Chloride	3.938	84	719523	15.439	ppbv	98
21) Allyl Chloride	3.938	41	20951	0.335	ppbv #	23
23) Vinyl Acetate	4.613	43	45776	0.439	ppbv #	1
25) Ethyl Acetate	5.218	43	432410	2.073	ppbv #	80
26) Hexane	5.218	57	583760	6.024	ppbv #	43
27) Carbon Disulfide	4.128	76	16158	0.142	ppbv #	50
29) Chloroform	5.279	83	31807	0.198	ppbv	97
30) Cyclohexane	6.603	84	38187	0.474	ppbv #	87
34) 2-Butanone	4.787	43	2885525	24.145	ppbv	99
35) Carbon Tetrachloride	6.491	117	7641	0.052	ppbv #	74
36) Benzene	6.375	78	87426	0.449	ppbv	93
39) 1,2-Dichloropropane	6.658	63	617221	8.239	ppbv #	27
41) Tetrahydrofuran	5.565	42	9689	0.139	ppbv #	42
44) 2,2,4-Trimethylpentane	7.330	57	45357	0.145	ppbv #	1
50) 4-Methyl-2-Pentanone	8.185	43	12968	0.075	ppbv #	37
51) 2-Hexanone	9.446	43	26854	0.219	ppbv #	53
52) Tetrachloroethene	10.623	164	330891	5.251	ppbv	95
53) Toluene	9.221	91	549255	2.598	ppbv	99
57) Chlorobenzene	11.523	112	9522	0.055	ppbv #	37
58) Ethyl Benzene	12.095	91	3925852	14.139	ppbv	99
59) m/p-Xylene	12.356	91	14736653	59.464	ppbv	91
60) o-Xylene	13.069	91	10055265	42.592	ppbv	95
61) Styrene	12.902	104	93904	0.862	ppbv #	50
62) Isopropylbenzene	14.037	105	3282499	9.277	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.047	83	17764	0.107	ppbv #	1
64) n-propylbenzene	14.934	120	4897689	53.497	ppbv	65
65) tert-Butylbenzene	16.169	119	9670447	30.870	ppbv #	75
66) Benzyl Chloride	16.169	91	9683084	436.945	ppbv #	63
67) sec-Butylbenzene	16.658	105	2667467	5.795	ppbv	99
69) p-Isopropyltoluene	16.912	119	3996062	10.506	ppbv	99
70) n-Butylbenzene	17.918	91	5412711	12.761	ppbv #	49

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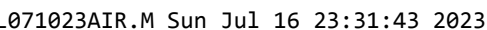
Quant Time: Jul 16 23:31:32 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Jul 10 16:32:00 2023
 Response via : Initial Calibration

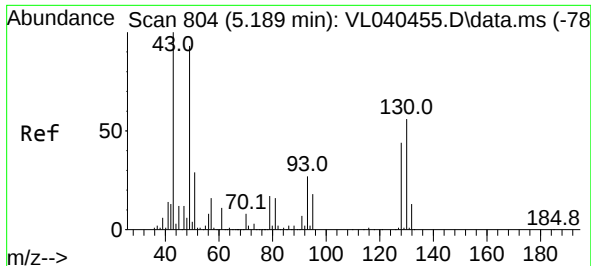
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

71) 2-Chlorotoluene	14.934	91	18188793	66.697	ppbv #	44
72) 4-Ethyltoluene	15.227	105	19028231	68.758	ppbv #	85
73) 1,3,5-Trimethylbenzene	15.384	105	20275248	83.117	ppbv #	74
74) 1,2,4-Trimethylbenzene	16.169	105	40367069	141.932	ppbv #	63
76) 1,4-Dichlorobenzene	16.500	146	33254	0.197	ppbv #	1
77) 1,2-Dichlorobenzene	17.166	146	4986	0.030	ppbv #	1
79) Naphthalene	21.403	128	4885122	20.301	ppbv	99
80) Naphthalene,2-methyl-	24.722	142	20217	0.204	ppbv	93

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

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Mon Jul 10 16:32:00 2023
Response via : Initial Calibration

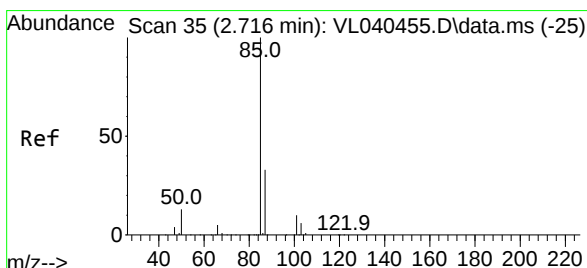
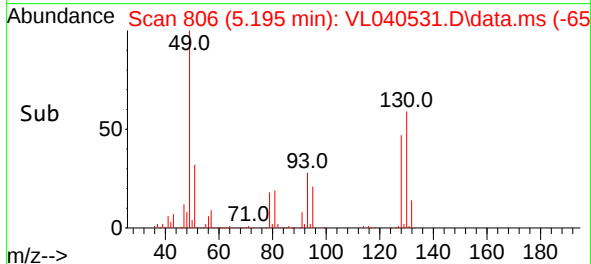
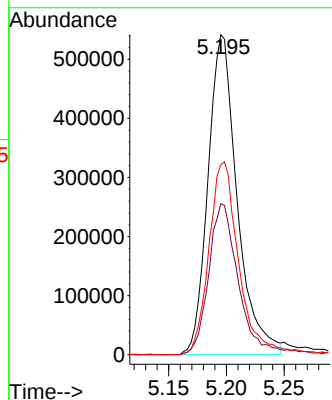
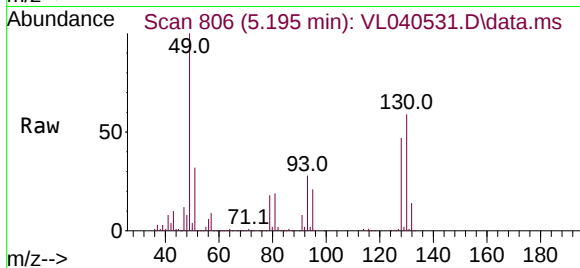




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.195 min Scan# 80
 Delta R.T. -0.007 min
 Lab File: VL040531.D
 Acq: 14 Jul 2023 17:25

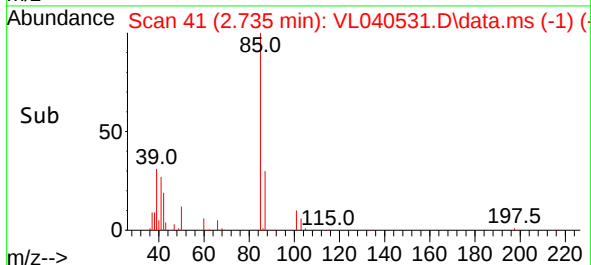
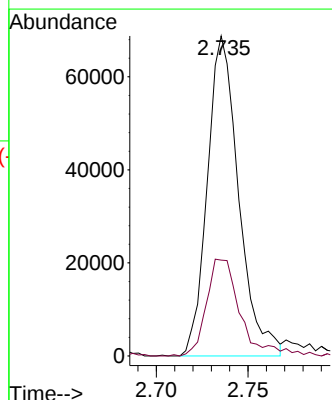
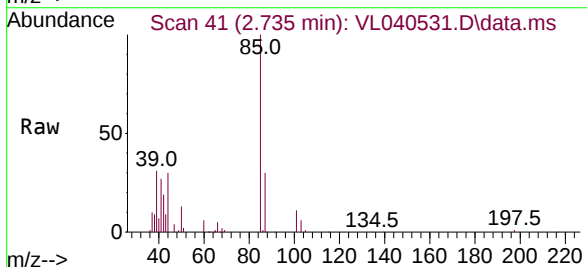
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 IA1

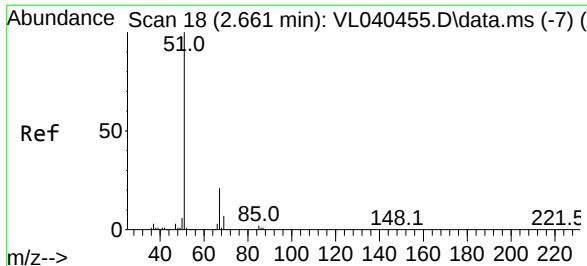
Tgt Ion: 49 Resp: 951827
 Ion Ratio Lower Upper
 49 100
 128 49.3 25.1 75.4
 130 62.7 31.6 94.7



#2
 Dichlorodifluoromethane
 Concen: 0.430 ppbv
 RT: 2.735 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL040531.D
 Acq: 14 Jul 2023 17:25

Tgt Ion: 85 Resp: 81862
 Ion Ratio Lower Upper
 85 100
 87 29.9 26.8 40.2

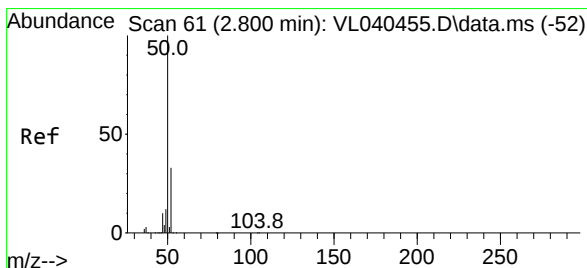
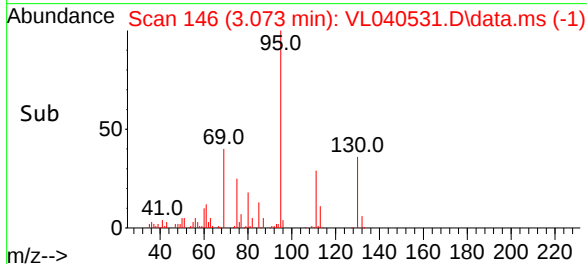
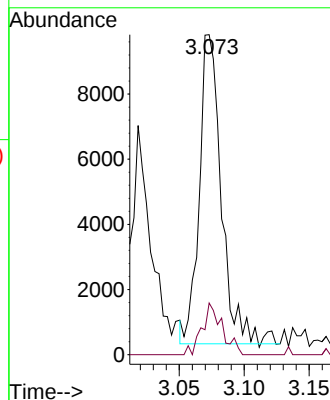
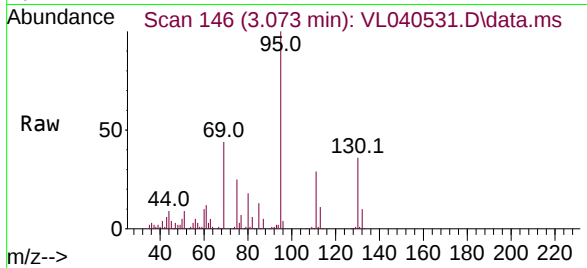




#3
Chlorodifluoromethane
Concen: 0.074 ppbv
RT: 3.073 min Scan# 14
Delta R.T. 0.389 min
Lab File: VL040531.D
Acq: 14 Jul 2023 17:25

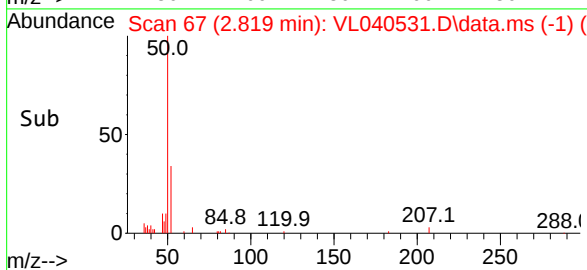
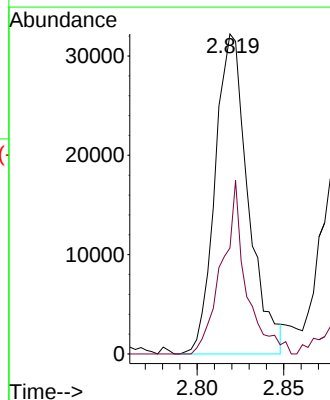
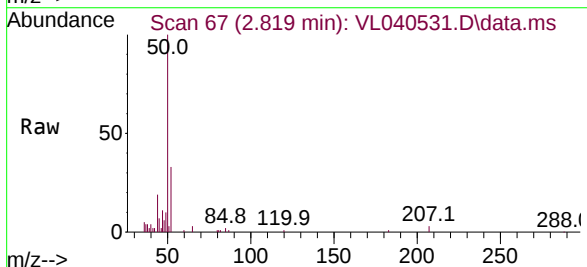
Instrument :
MSVOA_L
ClientSampleId :
IA1

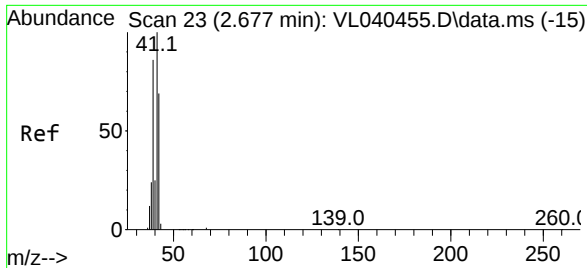
Tgt Ion: 51 Resp: 11205
Ion Ratio Lower Upper
51 100
67 15.2 14.6 21.8



#4
Chloromethane
Concen: 0.717 ppbv
RT: 2.819 min Scan# 67
Delta R.T. -0.003 min
Lab File: VL040531.D
Acq: 14 Jul 2023 17:25

Tgt Ion: 50 Resp: 42857
Ion Ratio Lower Upper
50 100
52 32.3 24.4 36.6





#9

Propene

Concen: 9.351 ppbv

RT: 2.700 min Scan# 30

Delta R.T. -0.003 min

Lab File: VL040531.D

Acq: 14 Jul 2023 17:25

Instrument :

MSVOA_L

ClientSampleId :

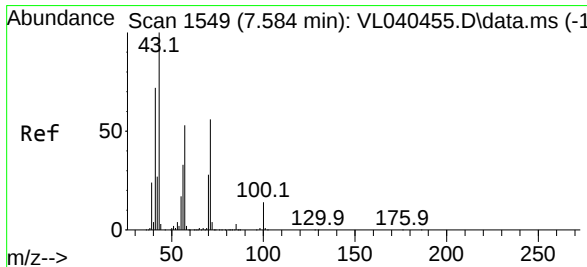
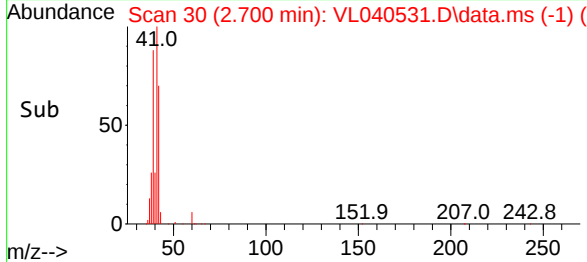
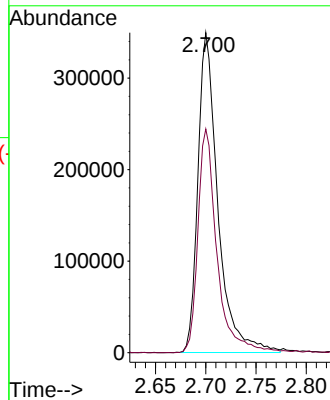
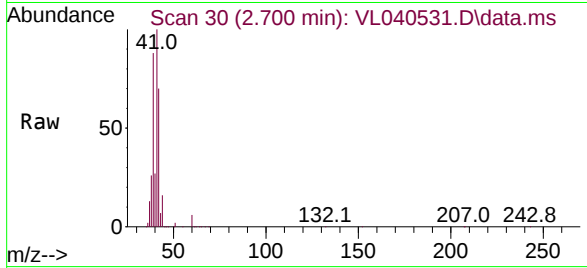
IA1

Tgt Ion: 41 Resp: 482988

Ion Ratio Lower Upper

41 100

42 67.5 55.0 82.6



#10

Heptane

Concen: 3.074 ppbv

RT: 7.581 min Scan# 1548

Delta R.T. -0.010 min

Lab File: VL040531.D

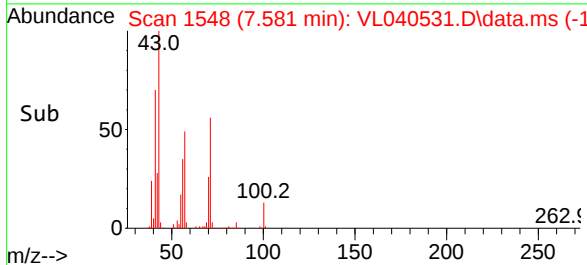
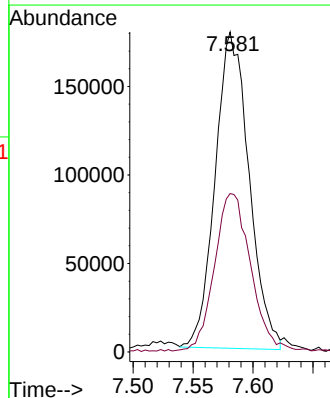
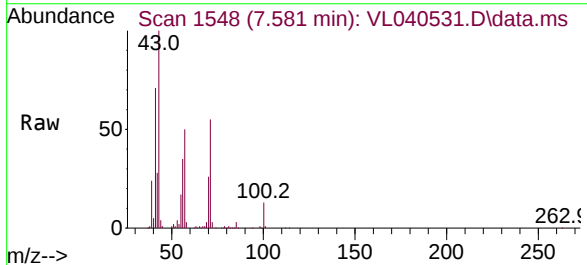
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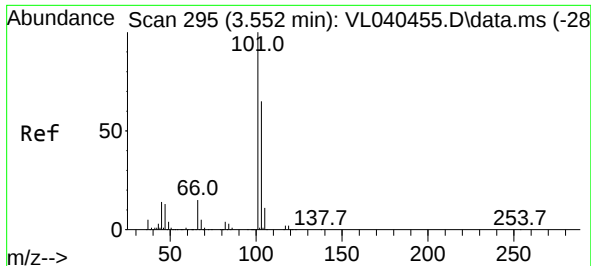
Tgt Ion: 43 Resp: 350546

Ion Ratio Lower Upper

43 100

57 54.2 42.5 63.7

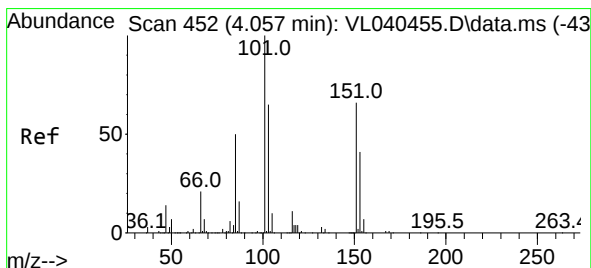
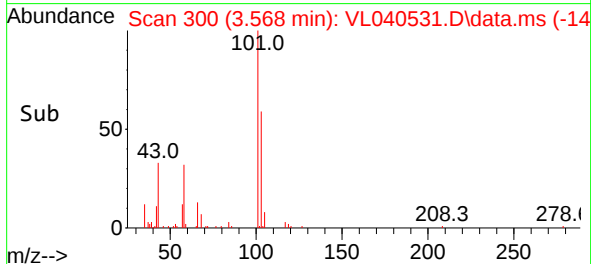
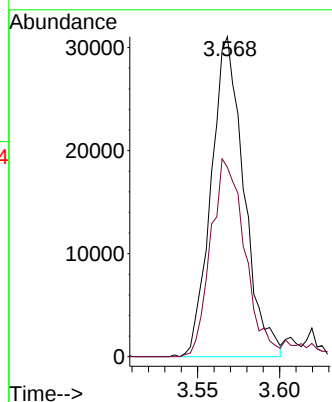
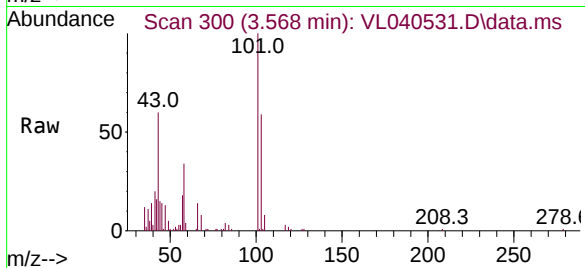




#11
 Trichlorofluoromethane
 Concen: 0.280 ppbv
 RT: 3.568 min Scan# 300
 Delta R.T. -0.003 min
 Lab File: VL040531.D
 Acq: 14 Jul 2023 17:25

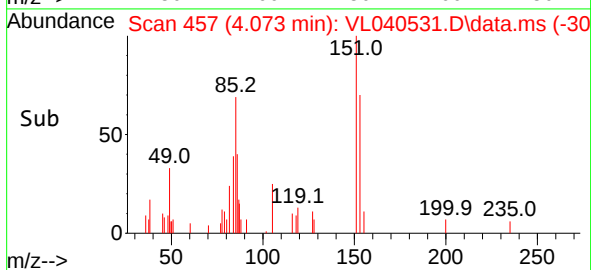
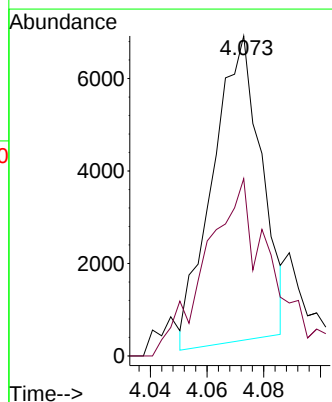
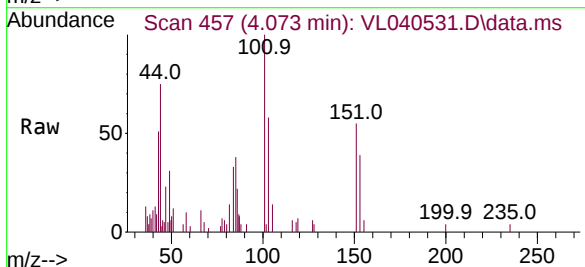
Instrument :
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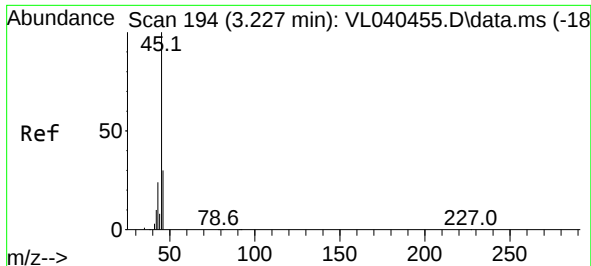
Tgt Ion:101 Resp: 43055
 Ion Ratio Lower Upper
 101 100
 103 59.2 53.4 80.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.073 ppbv
 RT: 4.073 min Scan# 457
 Delta R.T. 0.000 min
 Lab File: VL040531.D
 Acq: 14 Jul 2023 17:25

Tgt Ion:101 Resp: 7908
 Ion Ratio Lower Upper
 101 100
 151 80.8 58.2 87.4

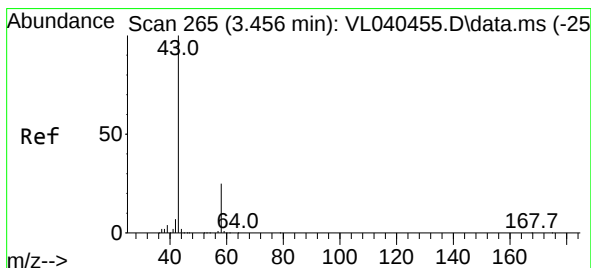
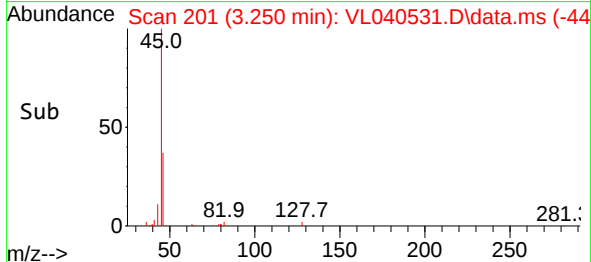
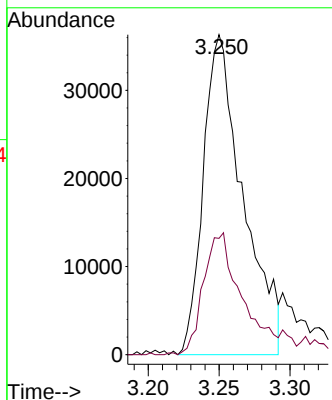
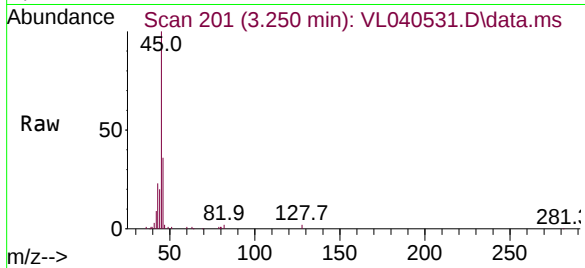




#13
 Ethanol
 Concen: 6.309 ppbv
 RT: 3.250 min Scan# 201
 Delta R.T. 0.003 min
 Lab File: VL040531.D
 Acq: 14 Jul 2023 17:25

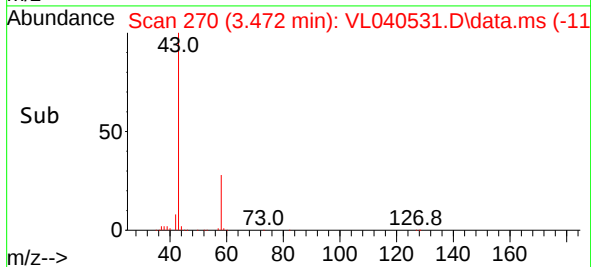
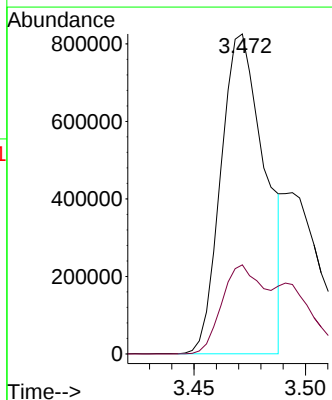
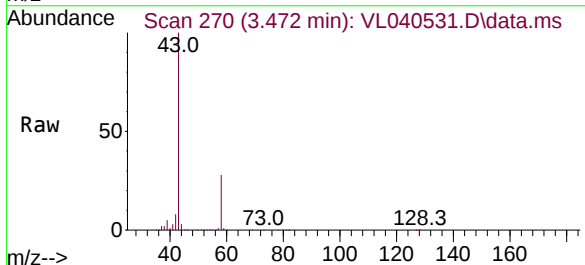
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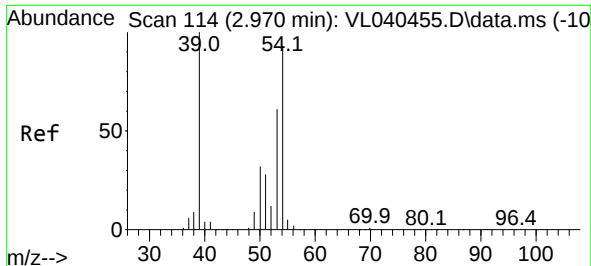
Tgt Ion: 45 Resp: 70895
 Ion Ratio Lower Upper
 45 100
 46 42.1 15.3 61.1



#15
 Acetone
 Concen: 10.323 ppbv
 RT: 3.472 min Scan# 270
 Delta R.T. -0.003 min
 Lab File: VL040531.D
 Acq: 14 Jul 2023 17:25

Tgt Ion: 43 Resp: 1131049
 Ion Ratio Lower Upper
 43 100
 58 47.2 22.9 34.3#

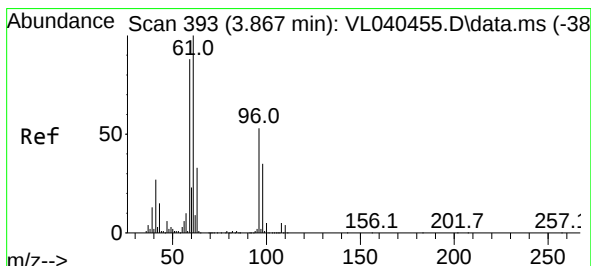
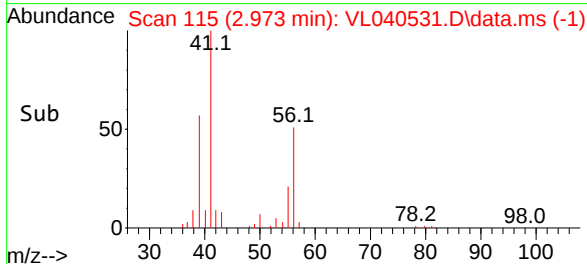
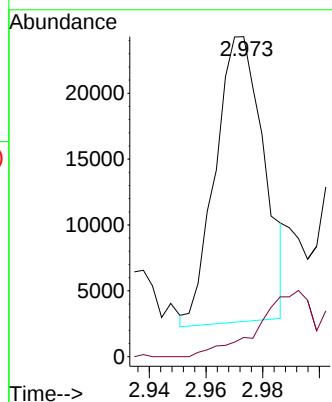
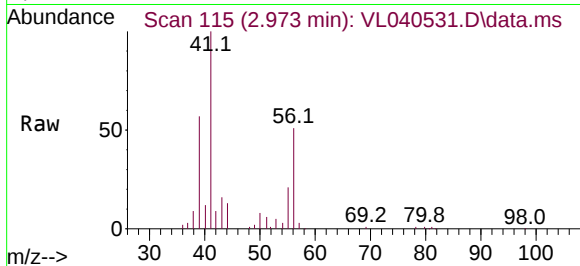




#16
1,3-Butadiene
Concen: 0.466 ppbv
RT: 2.973 min Scan# 114
Delta R.T. -0.019 min
Lab File: VL040531.D
Acq: 14 Jul 2023 17:25

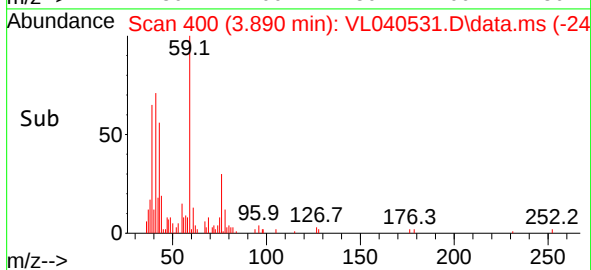
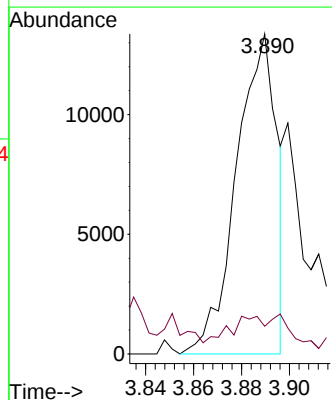
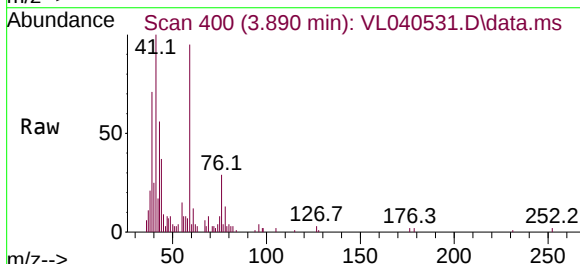
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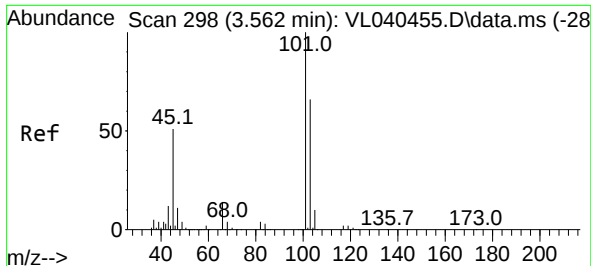
Tgt Ion: 39 Resp: 25783
Ion Ratio Lower Upper
39 100
54 37.2 66.6 100.0#



#17
tert-Butyl alcohol
Concen: 0.138 ppbv
RT: 3.890 min Scan# 400
Delta R.T. 0.006 min
Lab File: VL040531.D
Acq: 14 Jul 2023 17:25

Tgt Ion: 59 Resp: 15621
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#

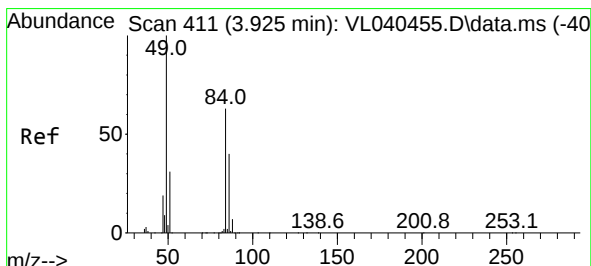
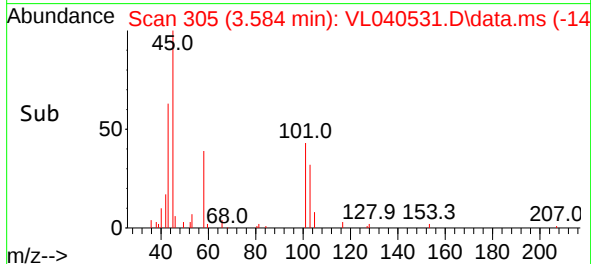
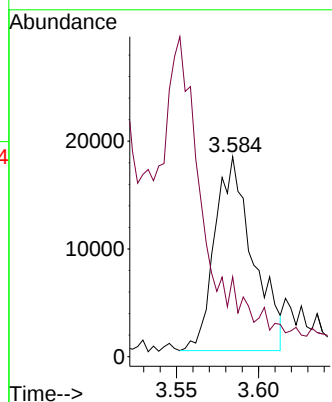
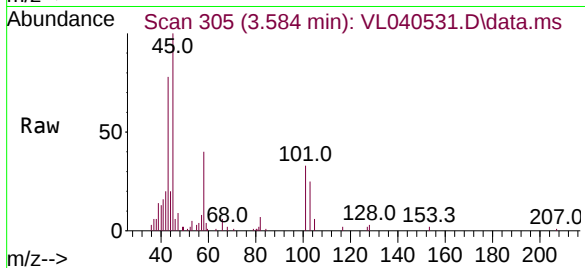




#19
Isopropyl Alcohol
Concen: 0.461 ppbv
RT: 3.584 min Scan# 305
Delta R.T. 0.003 min
Lab File: VL040531.D
Acq: 14 Jul 2023 17:25

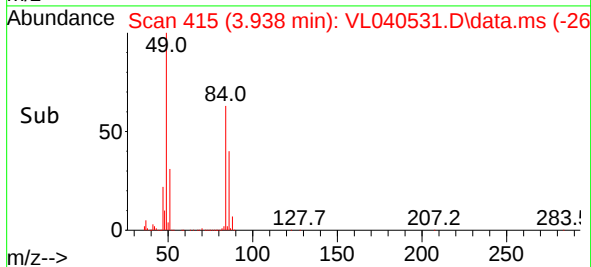
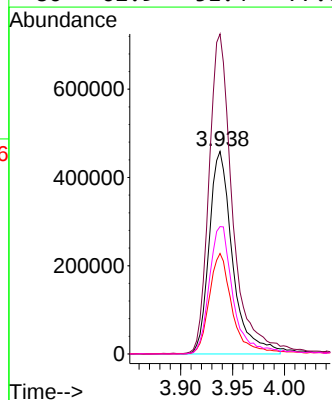
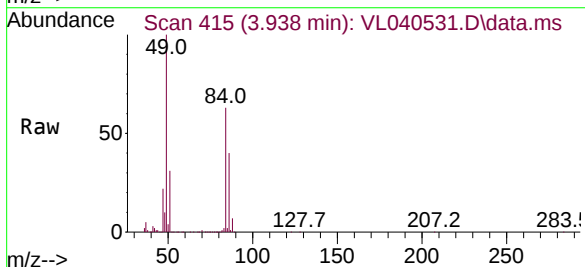
Instrument :
MSVOA_L
ClientSampleId :
IA1

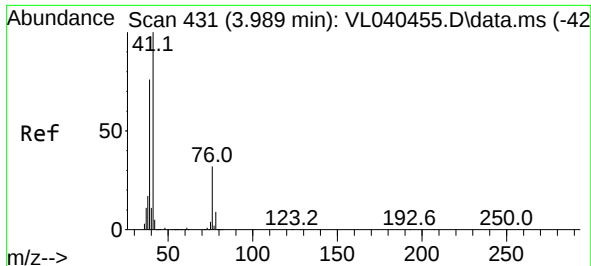
Tgt Ion: 45 Resp: 29025
Ion Ratio Lower Upper
45 100
58 207.3 1.1 1.7#



#20
Methylene Chloride
Concen: 15.439 ppbv
RT: 3.938 min Scan# 415
Delta R.T. -0.003 min
Lab File: VL040531.D
Acq: 14 Jul 2023 17:25

Tgt Ion: 84 Resp: 719523
Ion Ratio Lower Upper
84 100
49 157.6 123.4 185.2
51 49.3 38.3 57.5
86 62.9 51.4 77.0





#21

Allyl Chloride

Concen: 0.335 ppbv

RT: 3.938 min Scan# 41

Delta R.T. -0.068 min

Lab File: VL040531.D

Acq: 14 Jul 2023 17:25

Instrument :

MSVOA_L

ClientSampleId :

IA1

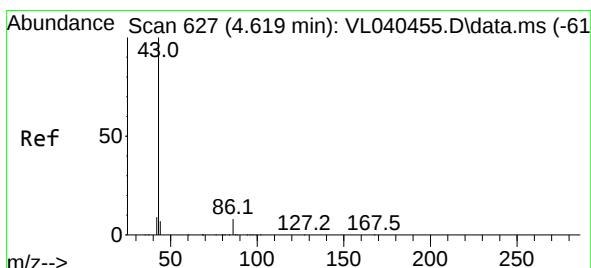
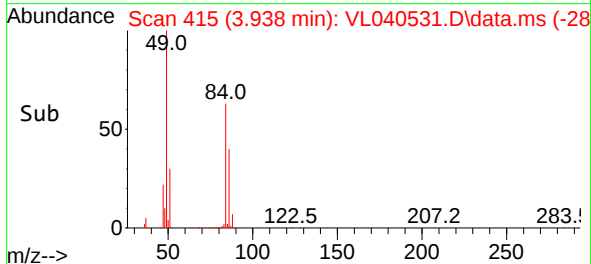
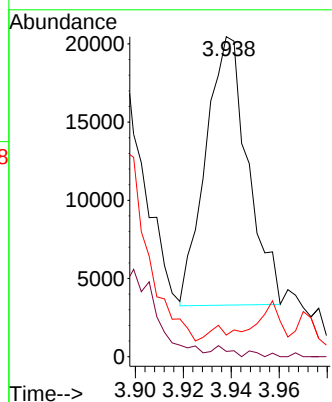
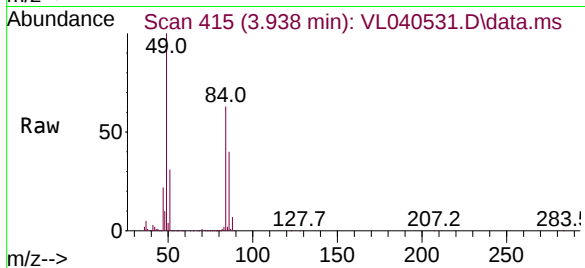
Tgt Ion: 41 Resp: 20951

Ion Ratio Lower Upper

41 100

76 4.7 24.8 37.2#

39 0.0 60.6 91.0#



#23

Vinyl Acetate

Concen: 0.439 ppbv

RT: 4.613 min Scan# 625

Delta R.T. -0.022 min

Lab File: VL040531.D

Acq: 14 Jul 2023 17:25

Tgt Ion: 43 Resp: 45776

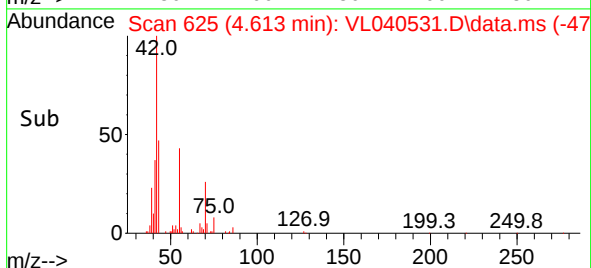
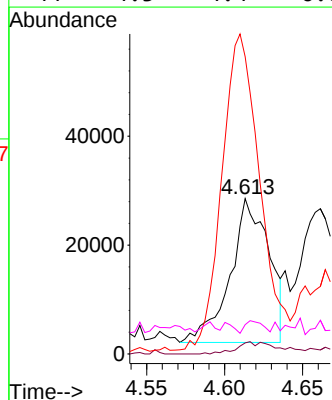
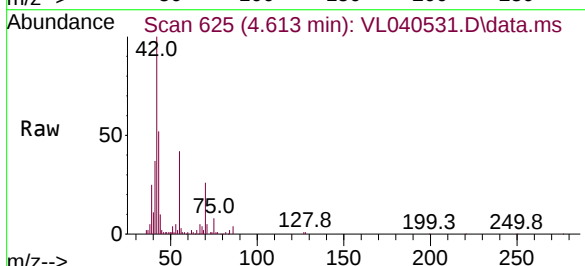
Ion Ratio Lower Upper

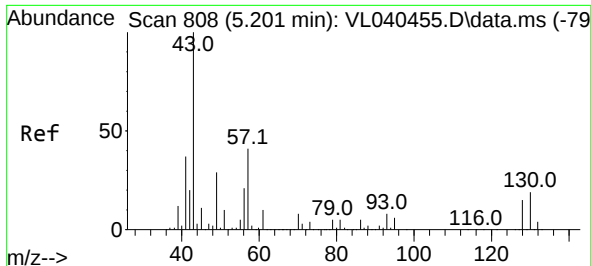
43 100

86 7.6 5.6 8.4

42 203.8 7.4 11.2#

44 4.3 4.4 6.6#





#25

Ethyl Acetate

Concen: 2.073 ppbv

RT: 5.218 min Scan# 813

Delta R.T. 0.006 min

Lab File: VL040531.D

Acq: 14 Jul 2023 17:25

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 43 Resp: 432410

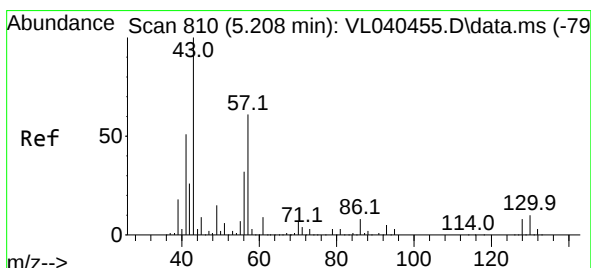
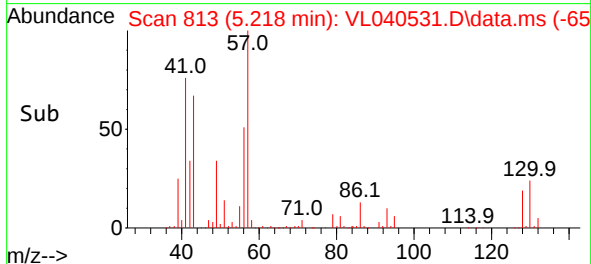
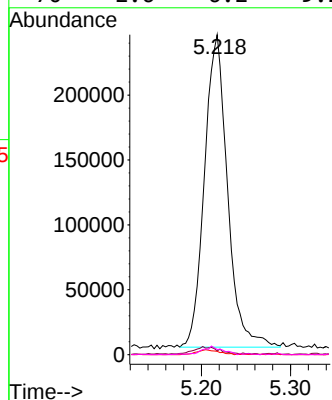
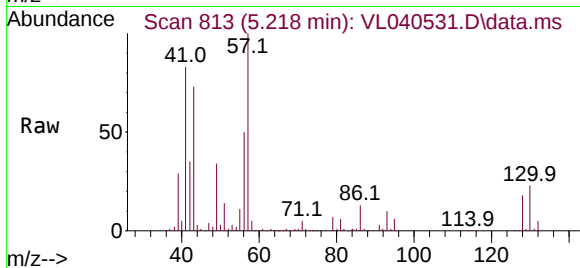
Ion Ratio Lower Upper

43 100

45 3.2 8.2 12.4#

61 1.6 8.3 12.5#

70 2.6 6.2 9.2#



#26

Hexane

Concen: 6.024 ppbv

RT: 5.218 min Scan# 813

Delta R.T. -0.003 min

Lab File: VL040531.D

Acq: 14 Jul 2023 17:25

Tgt Ion: 57 Resp: 583760

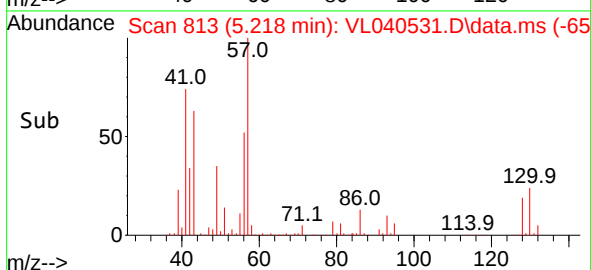
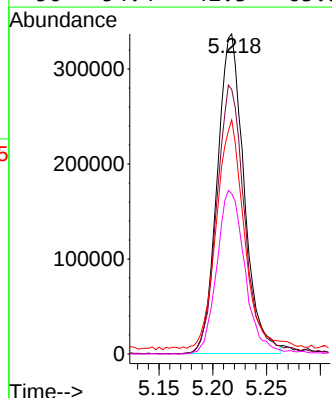
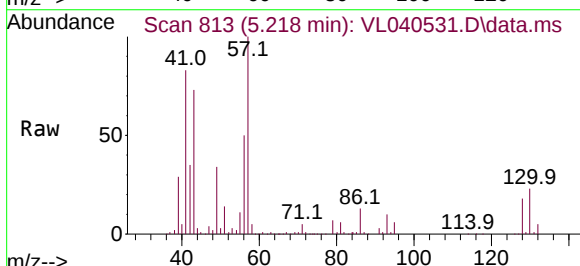
Ion Ratio Lower Upper

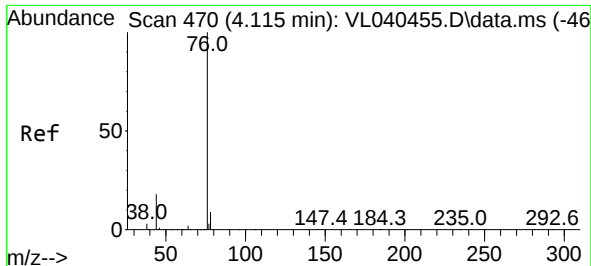
57 100

41 89.0 69.5 104.3

43 74.3 177.1 265.7#

56 54.4 42.3 63.5

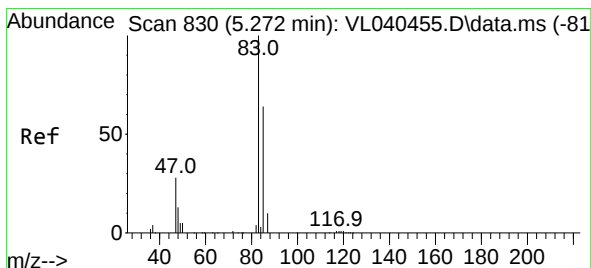
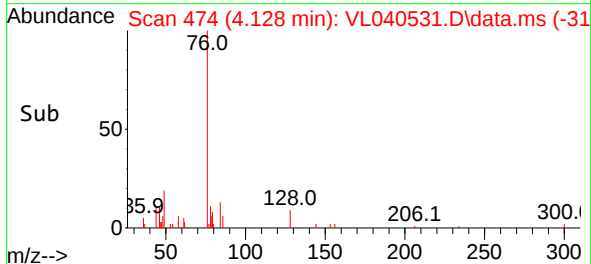
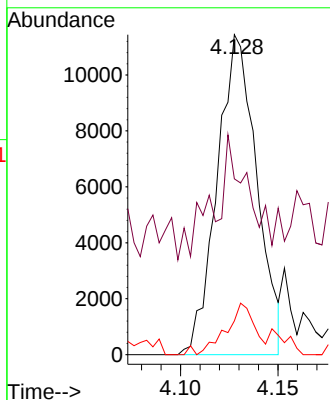
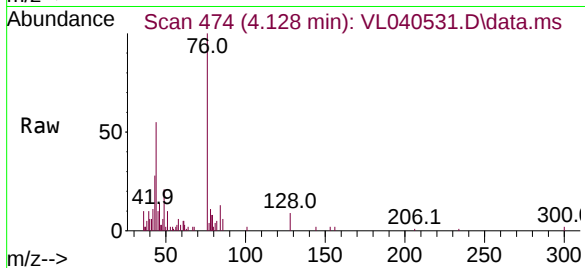




#27
Carbon Disulfide
Concen: 0.142 ppbv
RT: 4.128 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL040531.D
Acq: 14 Jul 2023 17:25

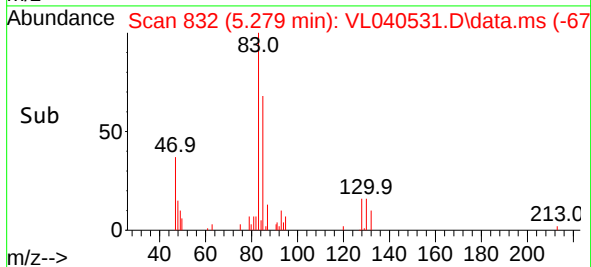
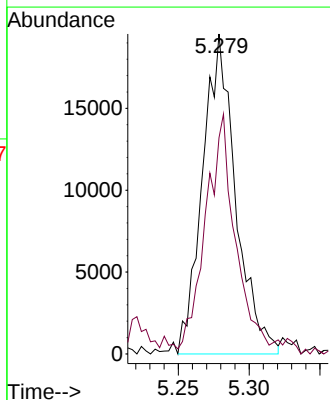
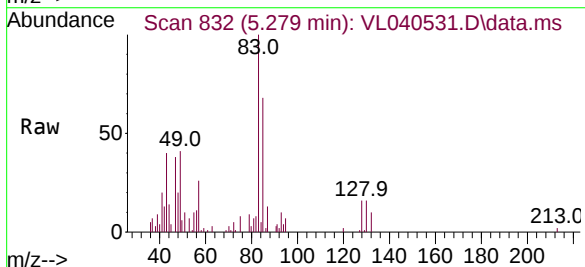
Instrument :
MSVOA_L
ClientSampleId :
IA1

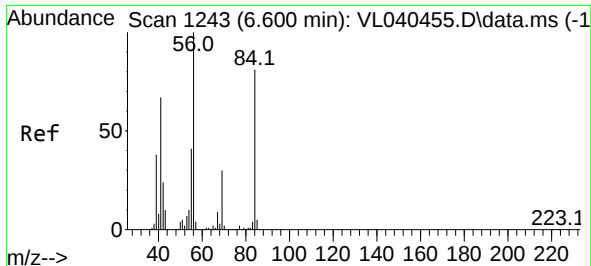
Tgt Ion: 76 Resp: 16158
Ion Ratio Lower Upper
76 100
44 49.4 15.1 22.7#
78 14.9 7.5 11.3#



#29
Chloroform
Concen: 0.198 ppbv
RT: 5.279 min Scan# 832
Delta R.T. -0.006 min
Lab File: VL040531.D
Acq: 14 Jul 2023 17:25

Tgt Ion: 83 Resp: 31807
Ion Ratio Lower Upper
83 100
85 65.9 51.1 76.7

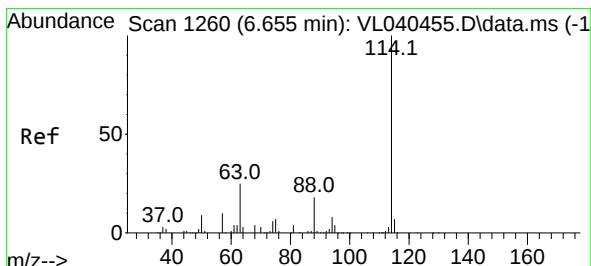
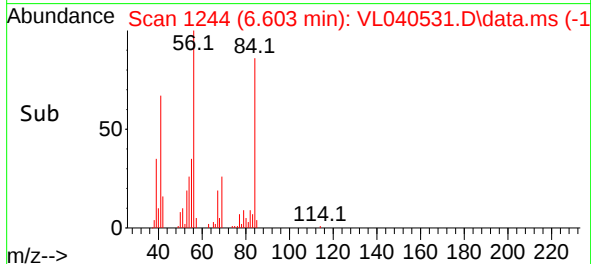
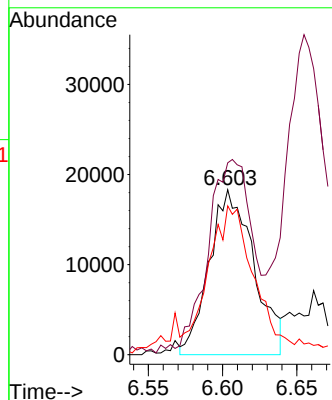
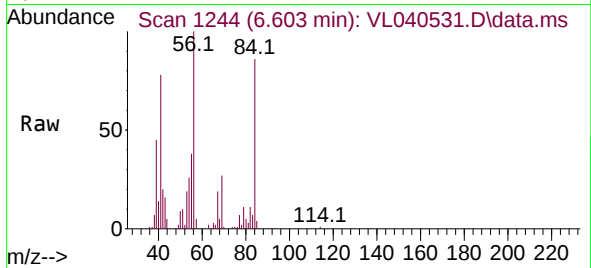




#30
Cyclohexane
Concen: 0.474 ppbv
RT: 6.603 min Scan# 1243
Delta R.T. -0.006 min
Lab File: VL040531.D
Acq: 14 Jul 2023 17:25

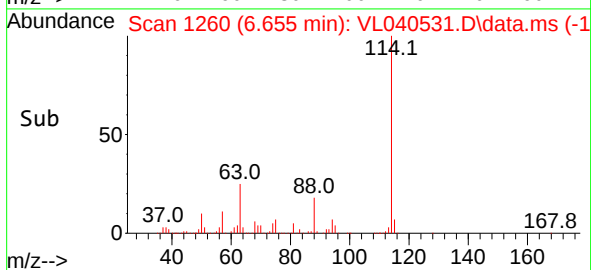
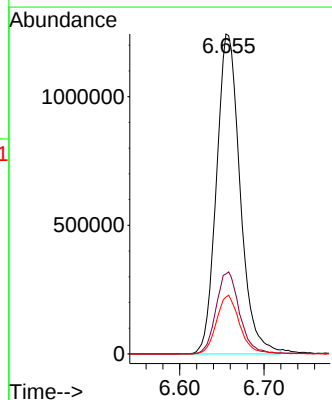
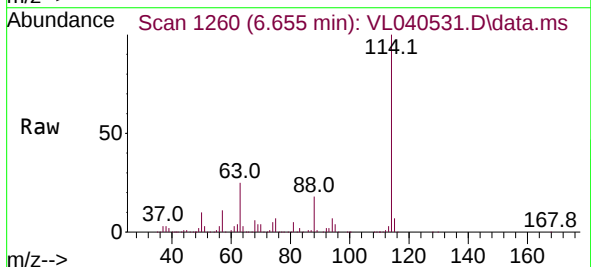
Instrument :
MSVOA_L
ClientSampleId :
IA1

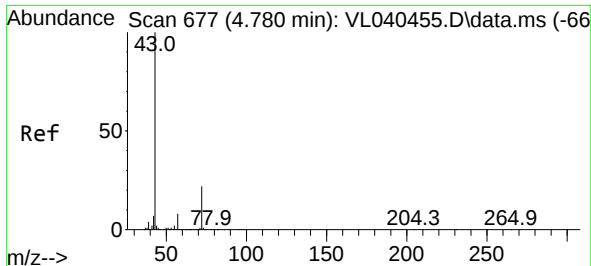
Tgt Ion: 84 Resp: 38187
Ion Ratio Lower Upper
84 100
56 129.1 108.7 163.1
41 103.6 64.5 96.7#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.655 min Scan# 1260
Delta R.T. -0.010 min
Lab File: VL040531.D
Acq: 14 Jul 2023 17:25

Tgt Ion: 114 Resp: 2418501
Ion Ratio Lower Upper
114 100
63 25.9 19.6 29.4
88 18.1 14.2 21.2

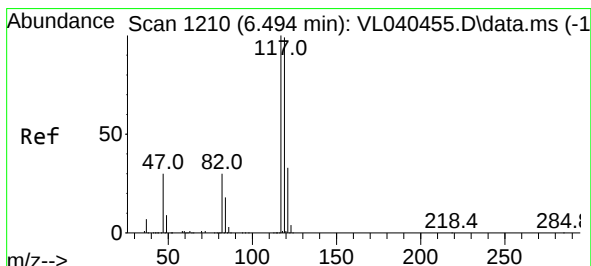
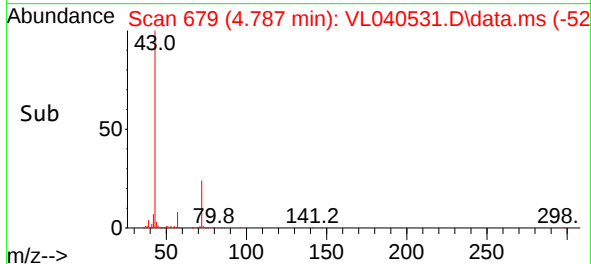
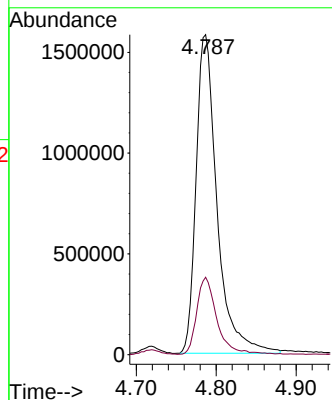
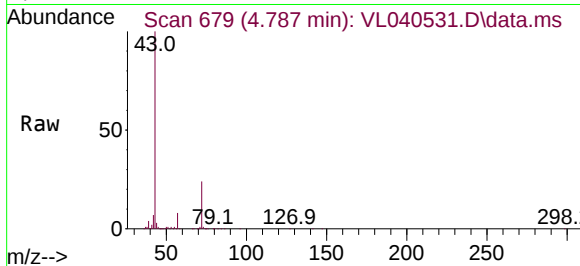




#34
2-Butanone
Concen: 24.145 ppbv
RT: 4.787 min Scan# 61
Delta R.T. -0.006 min
Lab File: VL040531.D
Acq: 14 Jul 2023 17:25

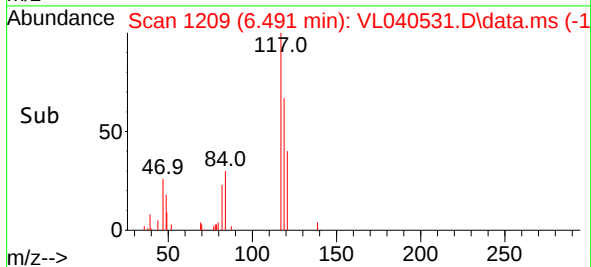
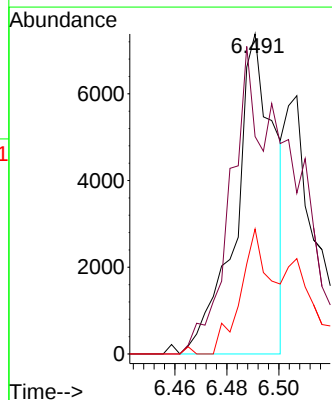
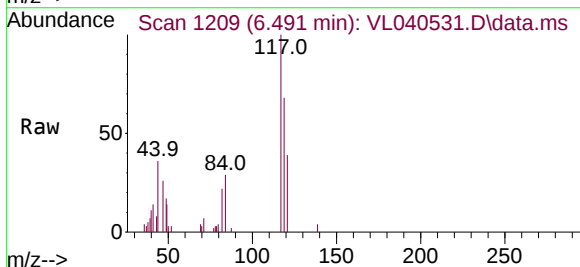
Instrument :
MSVOA_L
ClientSampleId :
IA1

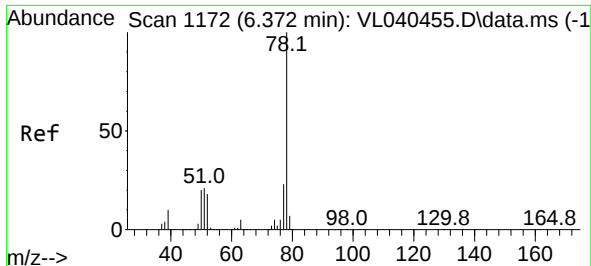
Tgt Ion: 43 Resp: 2885525
Ion Ratio Lower Upper
43 100
72 23.5 19.1 28.7



#35
Carbon Tetrachloride
Concen: 0.052 ppbv
RT: 6.491 min Scan# 1209
Delta R.T. -0.013 min
Lab File: VL040531.D
Acq: 14 Jul 2023 17:25

Tgt Ion: 117 Resp: 7641
Ion Ratio Lower Upper
117 100
119 67.9 77.8 116.6#
121 39.1 24.8 37.2#

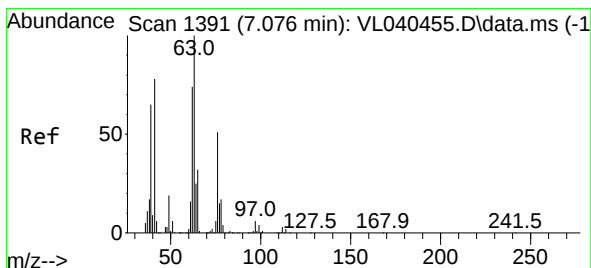
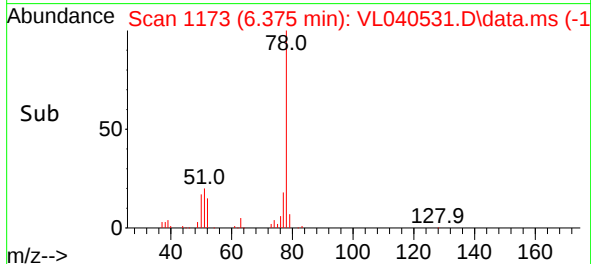
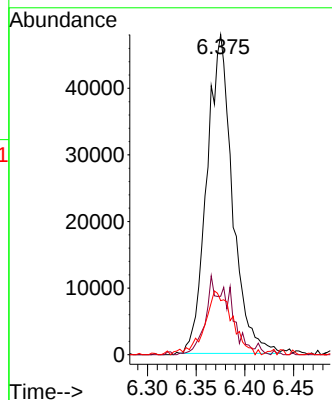
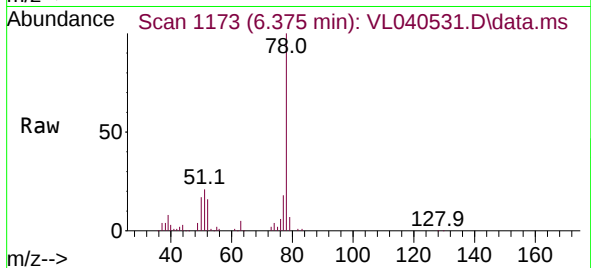




#36
Benzene
Concen: 0.449 ppbv
RT: 6.375 min Scan# 1172
Delta R.T. -0.006 min
Lab File: VL040531.D
Acq: 14 Jul 2023 17:25

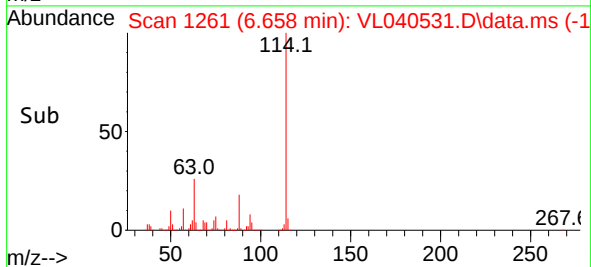
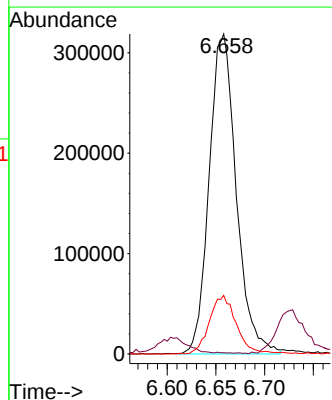
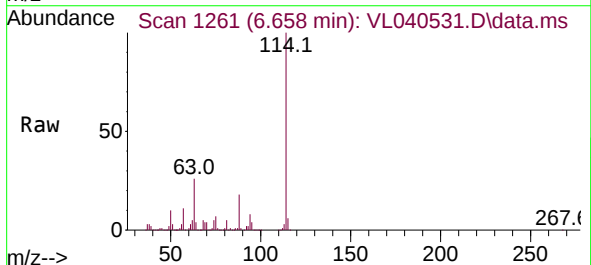
Instrument :
MSVOA_L
ClientSampleId :
IA1

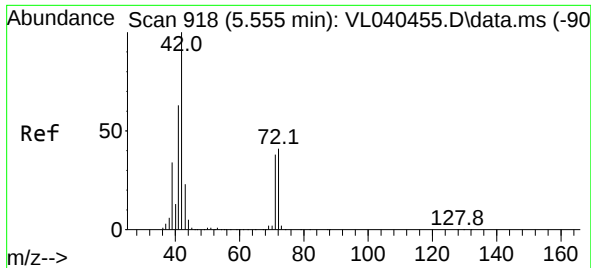
Tgt Ion: 78 Resp: 87426
Ion Ratio Lower Upper
78 100
77 17.9 17.4 26.0
50 15.3 14.4 21.6



#39
1,2-Dichloropropane
Concen: 8.239 ppbv
RT: 6.658 min Scan# 1261
Delta R.T. -0.424 min
Lab File: VL040531.D
Acq: 14 Jul 2023 17:25

Tgt Ion: 63 Resp: 617221
Ion Ratio Lower Upper
63 100
41 0.0 54.3 81.5#
62 18.1 55.6 83.4#

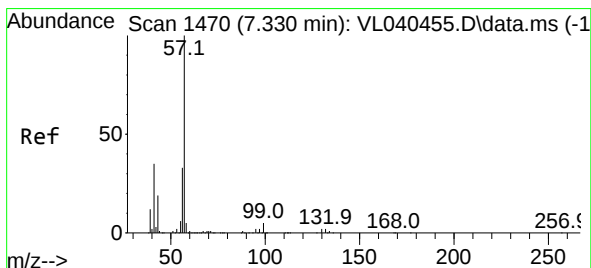
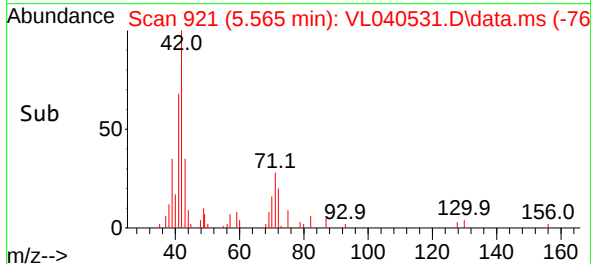
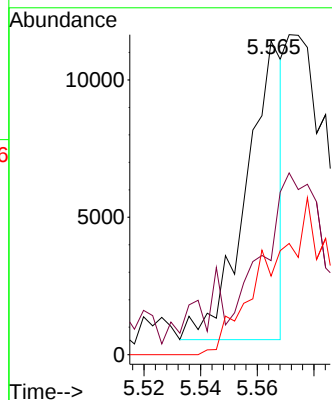
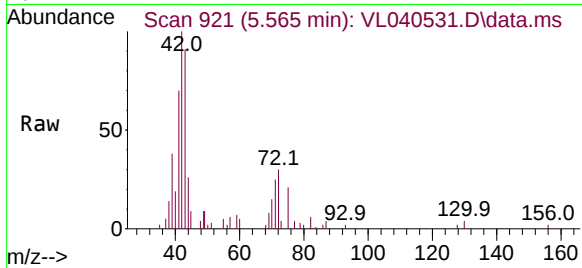




#41
Tetrahydrofuran
Concen: 0.139 ppbv
RT: 5.565 min Scan# 918
Delta R.T. 0.000 min
Lab File: VL040531.D
Acq: 14 Jul 2023 17:25

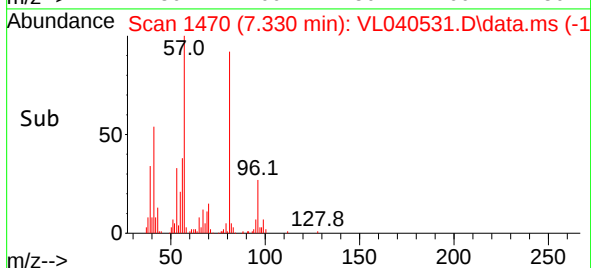
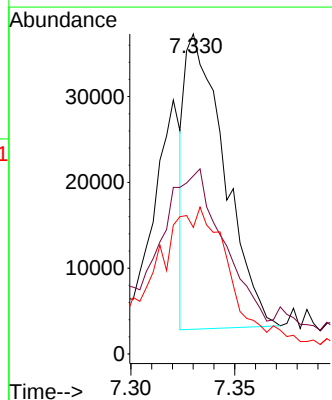
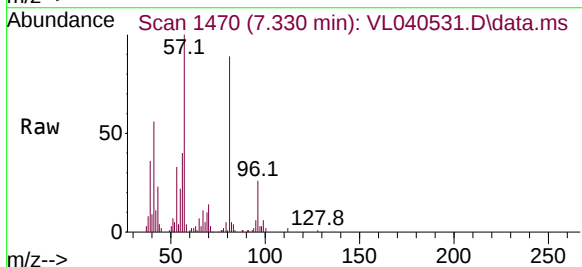
Instrument :
MSVOA_L
ClientSampleId :
IA1

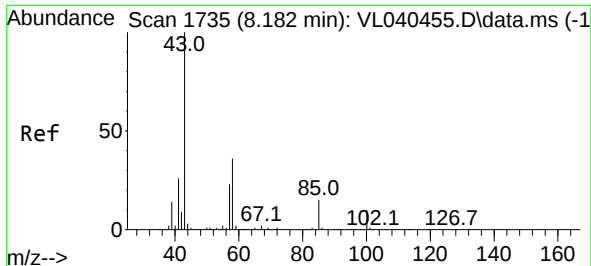
Tgt Ion: 42 Resp: 9689
Ion Ratio Lower Upper
42 100
72 10.9 33.8 50.8#
71 0.0 33.0 49.6#



#44
2,2,4-Trimethylpentane
Concen: 0.145 ppbv
RT: 7.330 min Scan# 1470
Delta R.T. -0.006 min
Lab File: VL040531.D
Acq: 14 Jul 2023 17:25

Tgt Ion: 57 Resp: 45357
Ion Ratio Lower Upper
57 100
41 125.9 25.5 38.3#
56 97.7 25.1 37.7#





#50

4-Methyl-2-Pentanone

Concen: 0.075 ppbv

RT: 8.185 min Scan# 11

Delta R.T. -0.006 min

Lab File: VL040531.D

Acq: 14 Jul 2023 17:25

Instrument :

MSVOA_L

ClientSampleId :

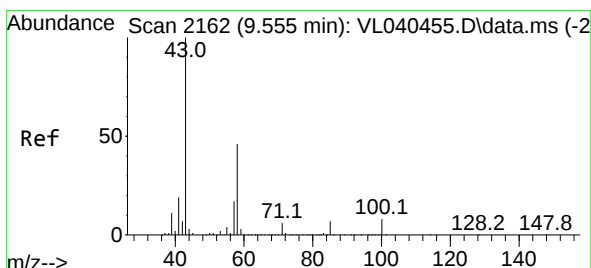
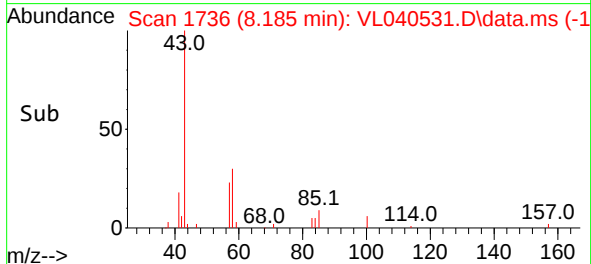
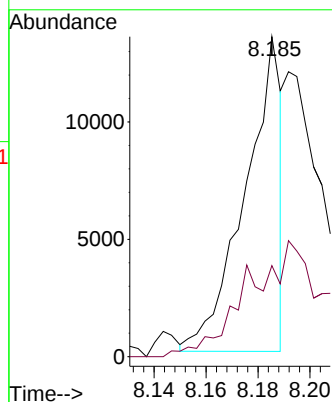
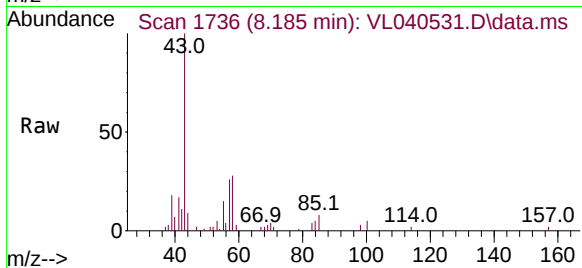
IA1

Tgt Ion: 43 Resp: 12968

Ion Ratio Lower Upper

43 100

58 0.0 30.2 45.2#



#51

2-Hexanone

Concen: 0.219 ppbv

RT: 9.446 min Scan# 2128

Delta R.T. -0.115 min

Lab File: VL040531.D

Acq: 14 Jul 2023 17:25

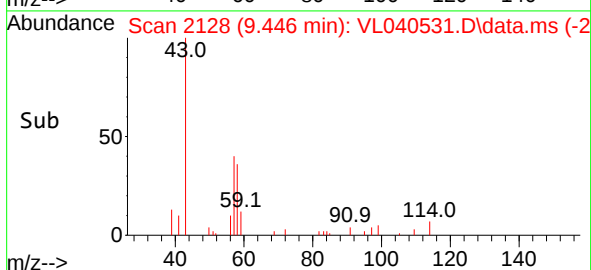
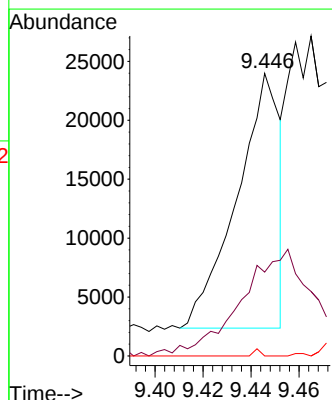
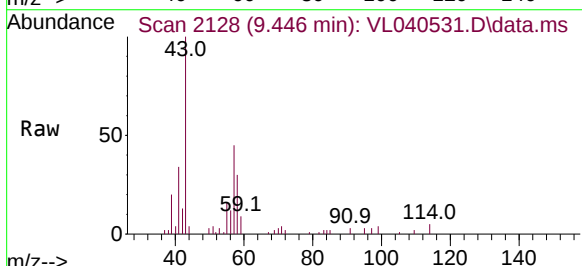
Tgt Ion: 43 Resp: 26854

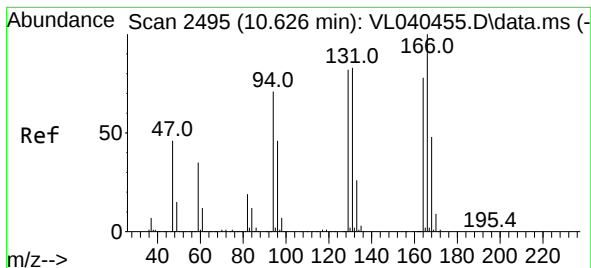
Ion Ratio Lower Upper

43 100

58 82.3 39.7 59.5#

98 6.6 0.3 0.5#





#52

Tetrachloroethene

Concen: 5.251 ppbv

RT: 10.623 min Scan# 2495

Delta R.T. -0.003 min

Lab File: VL040531.D

Acq: 14 Jul 2023 17:25

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion:164 Resp: 330891

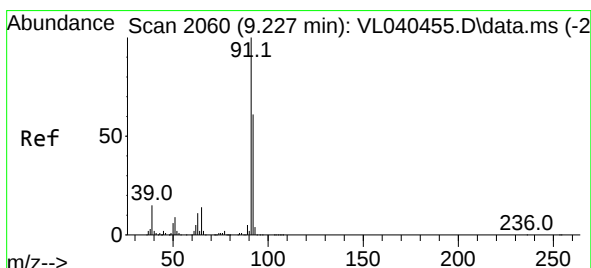
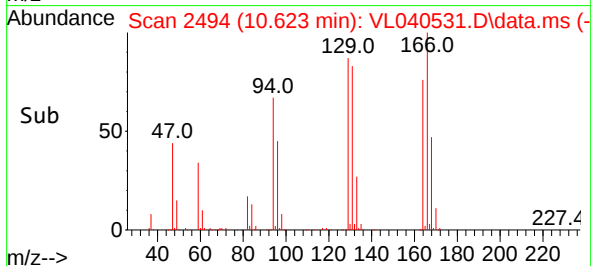
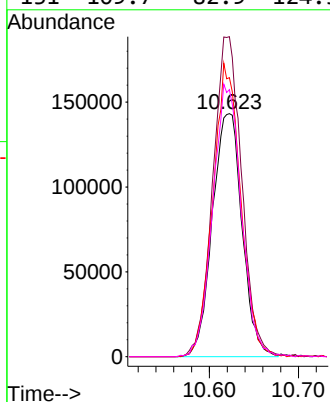
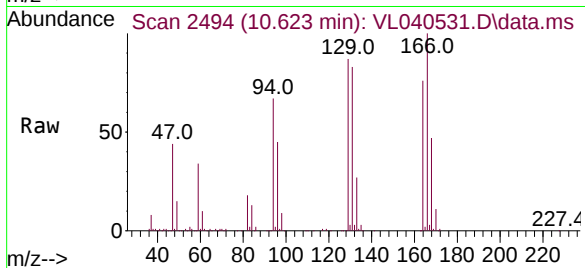
Ion Ratio Lower Upper

164 100

166 131.6 103.9 155.9

129 114.7 84.6 126.8

131 109.7 82.9 124.3



#53

Toluene

Concen: 2.598 ppbv

RT: 9.221 min Scan# 2058

Delta R.T. -0.010 min

Lab File: VL040531.D

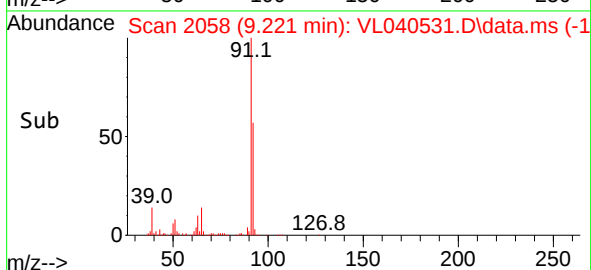
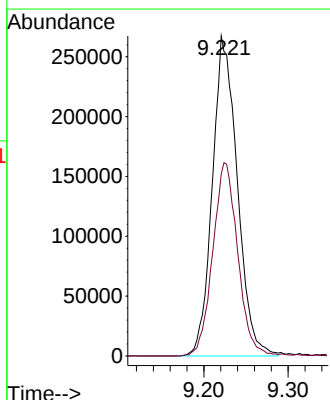
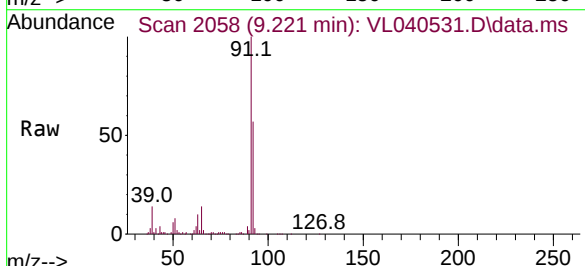
Acq: 14 Jul 2023 17:25

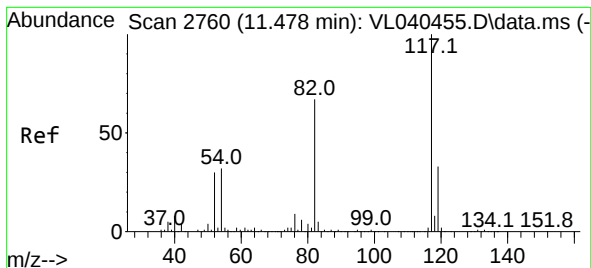
Tgt Ion: 91 Resp: 549255

Ion Ratio Lower Upper

91 100

92 60.9 49.1 73.7





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.471 min Scan# 21

Delta R.T. -0.006 min

Lab File: VL040531.D

Acq: 14 Jul 2023 17:25

Instrument :

MSVOA_L

ClientSampleId :

IA1

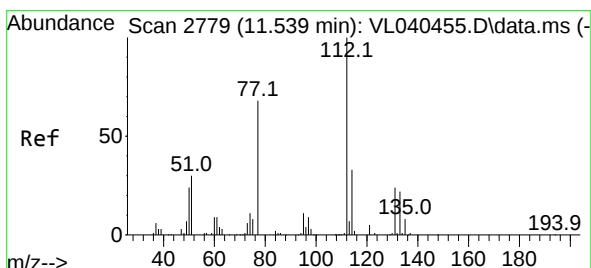
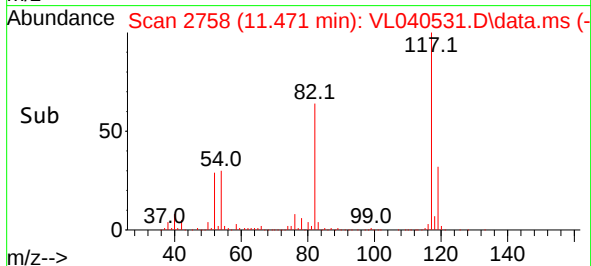
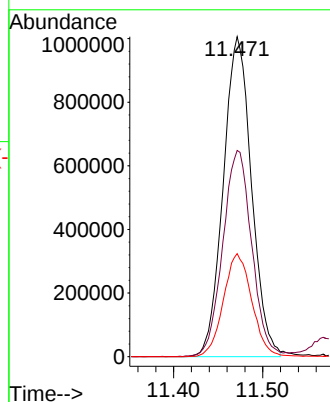
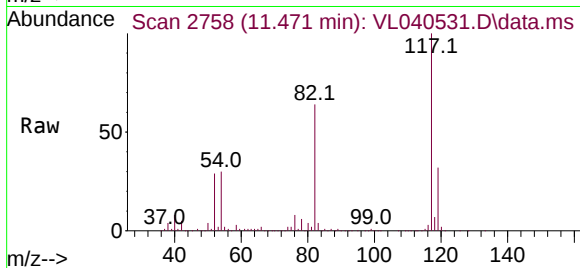
Tgt Ion:117 Resp: 2212572

Ion Ratio Lower Upper

117 100

82 66.5 50.2 75.4

119 32.6 26.9 40.3



#57

Chlorobenzene

Concen: 0.055 ppbv

RT: 11.523 min Scan# 2774

Delta R.T. -0.013 min

Lab File: VL040531.D

Acq: 14 Jul 2023 17:25

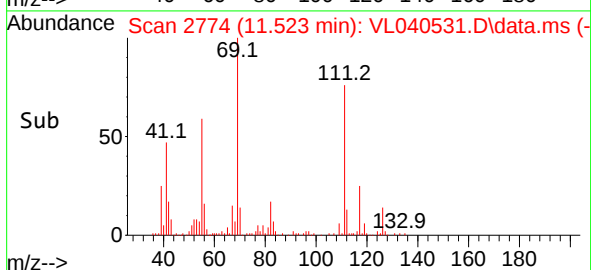
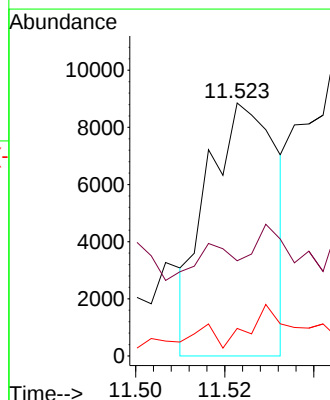
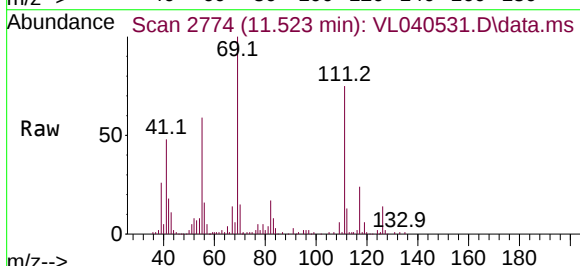
Tgt Ion:112 Resp: 9522

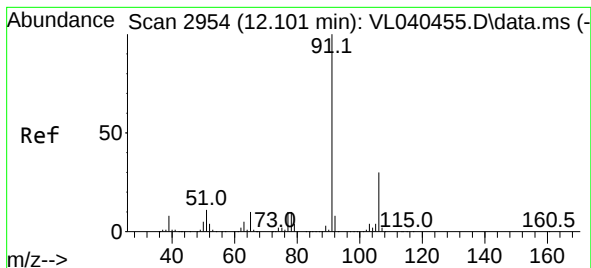
Ion Ratio Lower Upper

112 100

77 6.7 51.0 76.6#

114 8.3 28.3 34.5#





#58

Ethyl Benzene

Concen: 14.139 ppbv

RT: 12.095 min Scan# 2954

Delta R.T. -0.006 min

Lab File: VL040531.D

Acq: 14 Jul 2023 17:25

Instrument :

MSVOA_L

ClientSampleId :

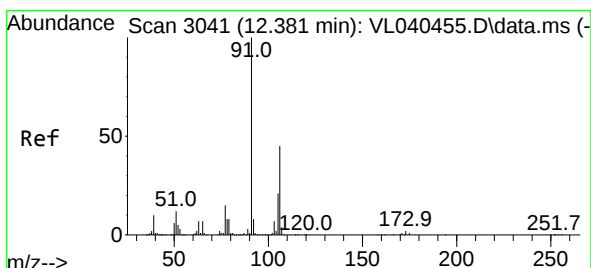
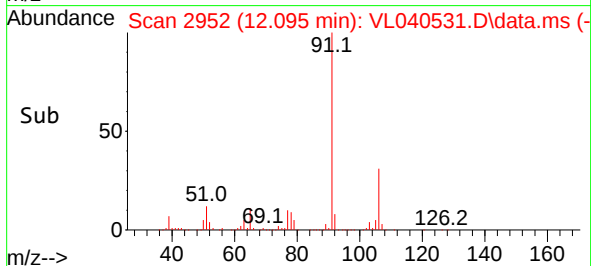
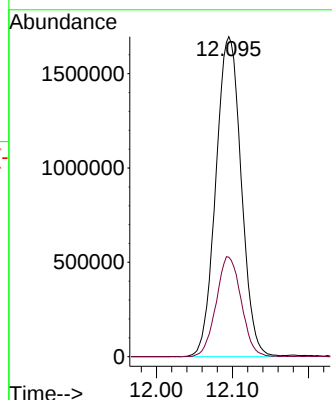
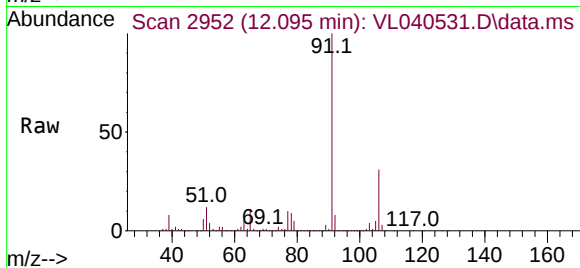
IA1

Tgt Ion: 91 Resp: 3925852

Ion Ratio Lower Upper

91 100

106 31.1 25.4 38.0



#59

m/p-Xylene

Concen: 59.464 ppbv

RT: 12.356 min Scan# 3033

Delta R.T. -0.029 min

Lab File: VL040531.D

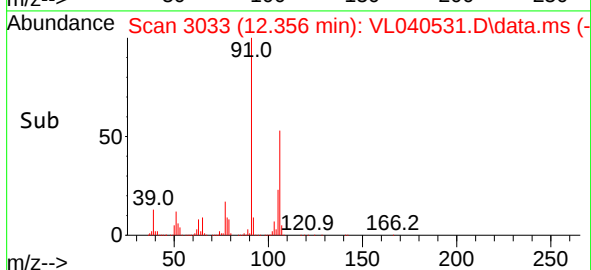
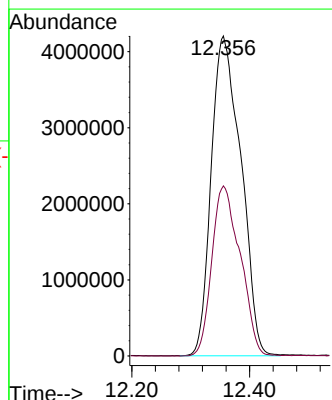
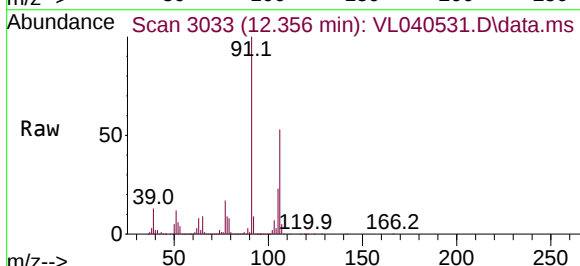
Acq: 14 Jul 2023 17:25

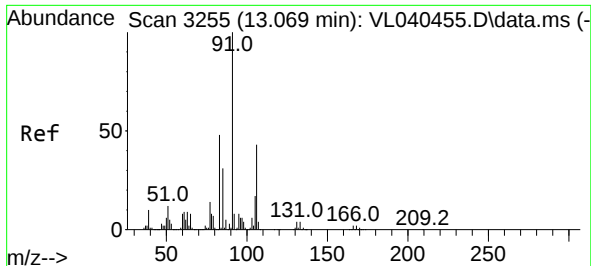
Tgt Ion: 91 Resp: 14736653

Ion Ratio Lower Upper

91 100

106 50.8 35.9 53.9

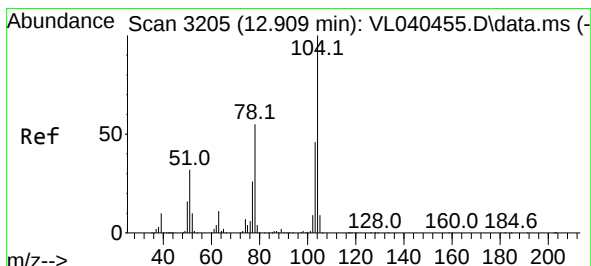
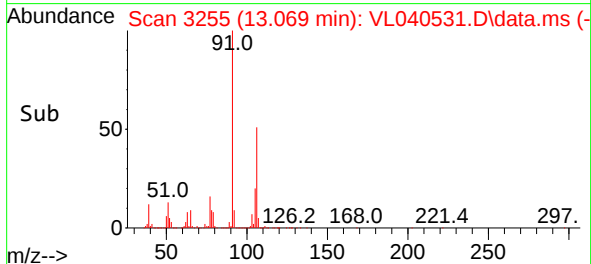
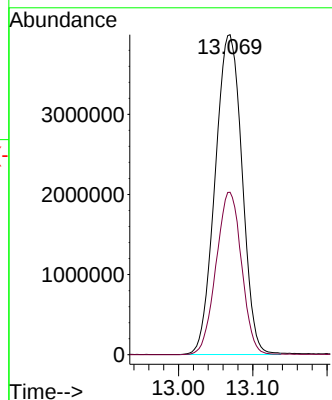
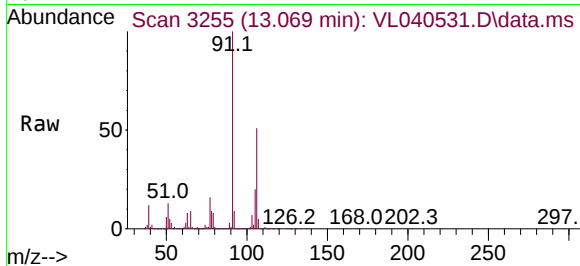




#60
o-Xylene
Concen: 42.592 ppbv
RT: 13.069 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL040531.D
Acq: 14 Jul 2023 17:25

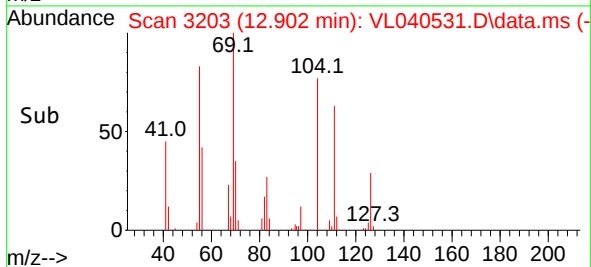
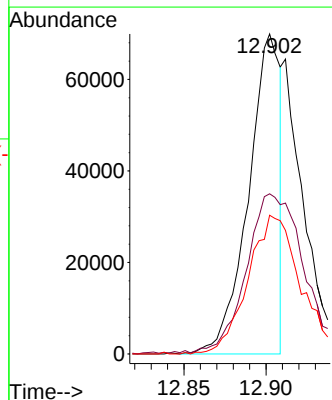
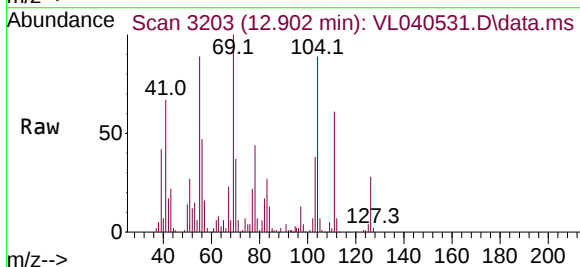
Instrument :
MSVOA_L
ClientSampleId :
IA1

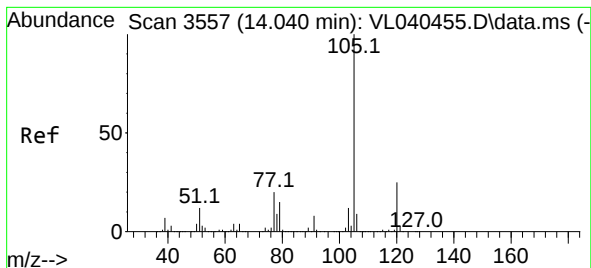
Tgt Ion: 91 Resp:10055265
Ion Ratio Lower Upper
91 100
106 48.5 22.7 68.0



#61
Styrene
Concen: 0.862 ppbv
RT: 12.902 min Scan# 3203
Delta R.T. -0.010 min
Lab File: VL040531.D
Acq: 14 Jul 2023 17:25

Tgt Ion:104 Resp: 93904
Ion Ratio Lower Upper
104 100
78 90.5 40.1 60.1#
103 73.6 37.0 55.4#





#62

Isopropylbenzene

Concen: 9.277 ppbv

RT: 14.037 min Scan# 31

Delta R.T. -0.003 min

Lab File: VL040531.D

Acq: 14 Jul 2023 17:25

Instrument :

MSVOA_L

ClientSampleId :

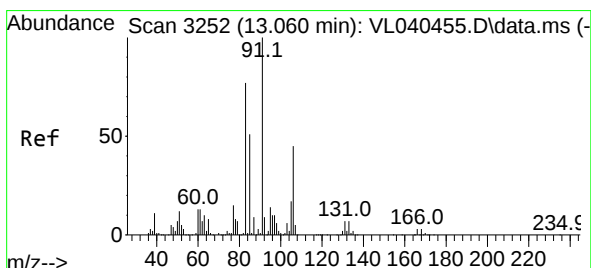
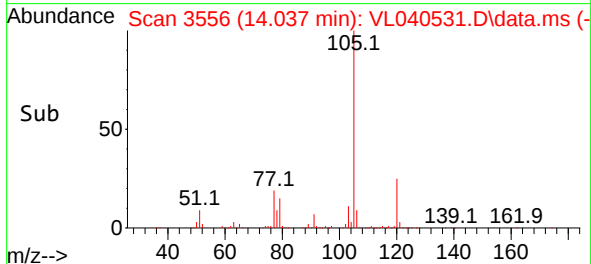
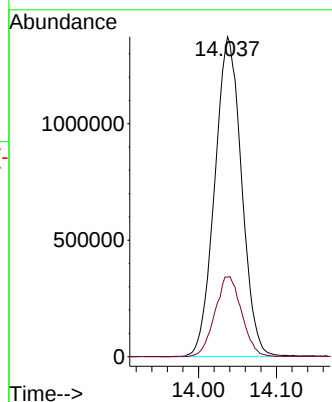
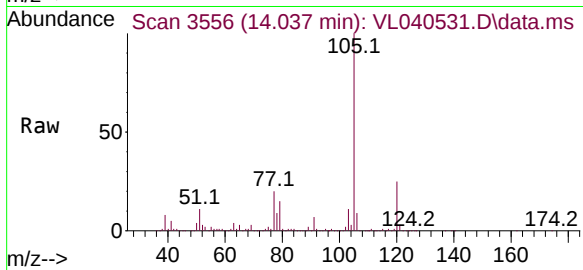
IA1

Tgt Ion:105 Resp: 3282499

Ion Ratio Lower Upper

105 100

120 25.1 20.8 31.2



#63

1,1,2,2-Tetrachloroethane

Concen: 0.107 ppbv

RT: 13.047 min Scan# 3248

Delta R.T. -0.013 min

Lab File: VL040531.D

Acq: 14 Jul 2023 17:25

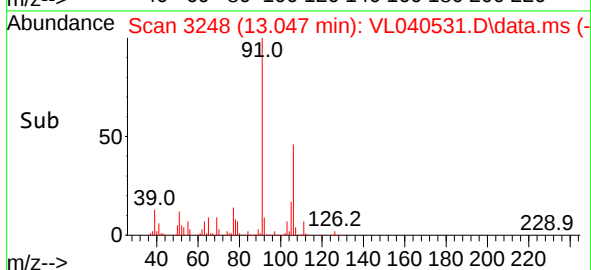
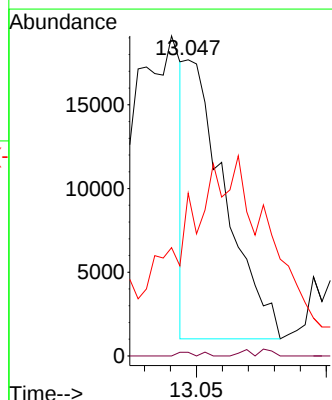
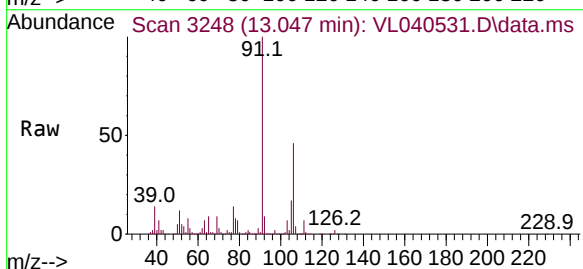
Tgt Ion: 83 Resp: 17764

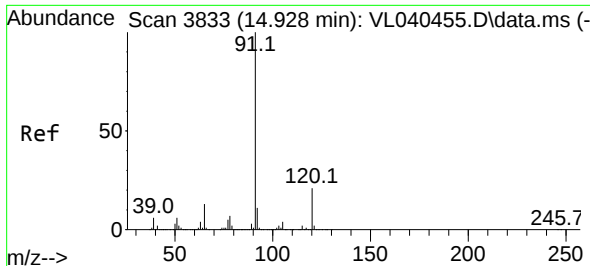
Ion Ratio Lower Upper

83 100

131 1.3 4.6 13.8#

85 167.0 32.8 98.3#

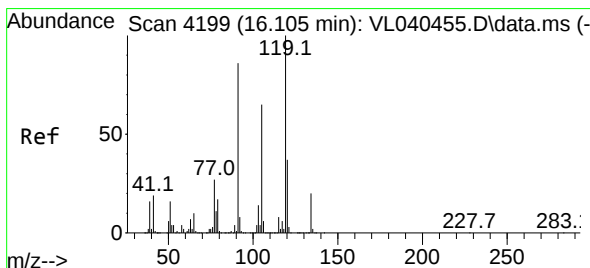
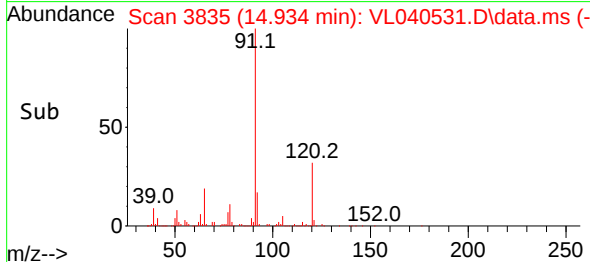
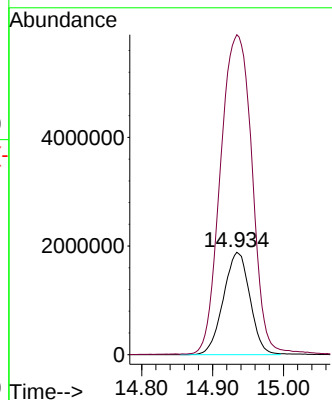
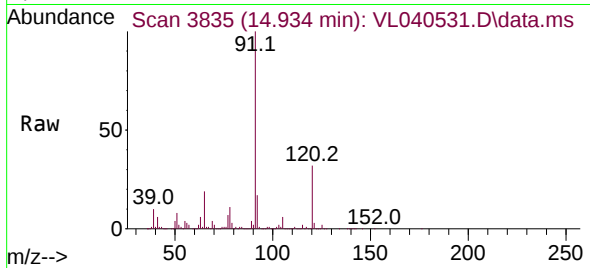




#64
n-propylbenzene
Concen: 53.497 ppbv
RT: 14.934 min Scan# 3835
Delta R.T. 0.003 min
Lab File: VL040531.D
Acq: 14 Jul 2023 17:25

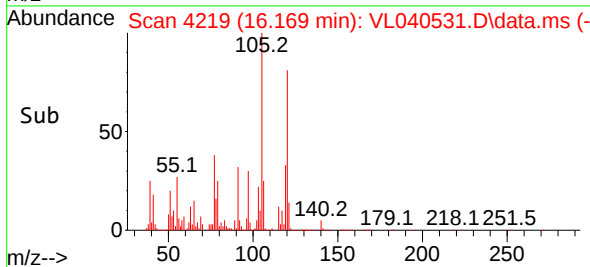
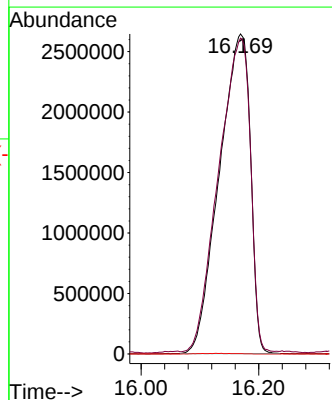
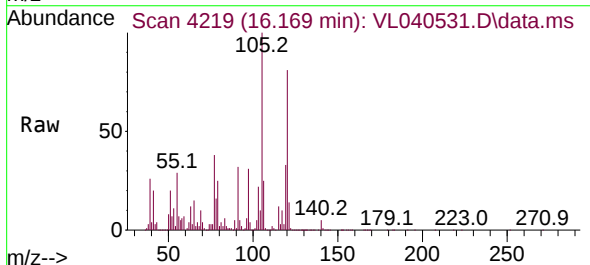
Instrument :
MSVOA_L
ClientSampleId :
IA1

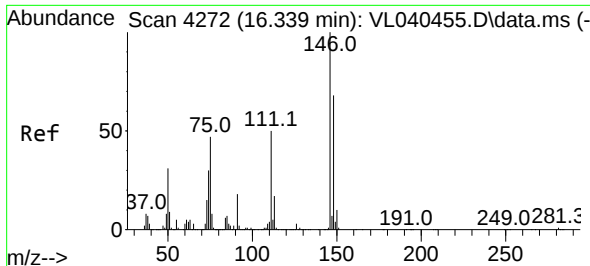
Tgt Ion:120 Resp: 4897689
Ion Ratio Lower Upper
120 100
91 374.9 374.3 561.5



#65
tert-Butylbenzene
Concen: 30.870 ppbv
RT: 16.169 min Scan# 4219
Delta R.T. 0.068 min
Lab File: VL040531.D
Acq: 14 Jul 2023 17:25

Tgt Ion:119 Resp: 9670447
Ion Ratio Lower Upper
119 100
91 101.5 66.1 99.1#
134 0.2 15.7 23.5#

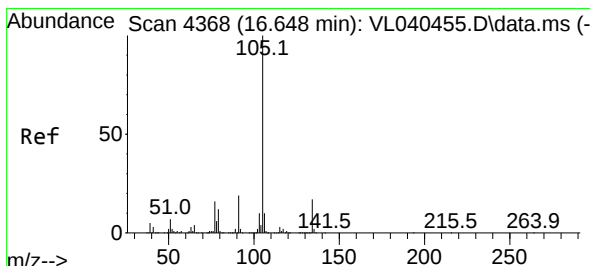
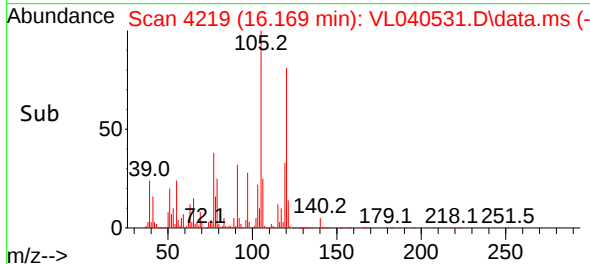
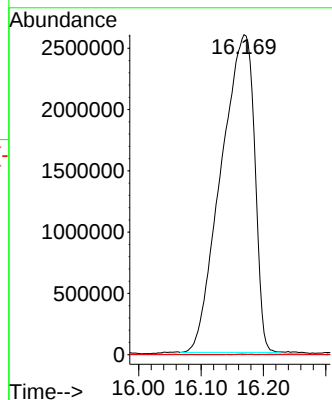
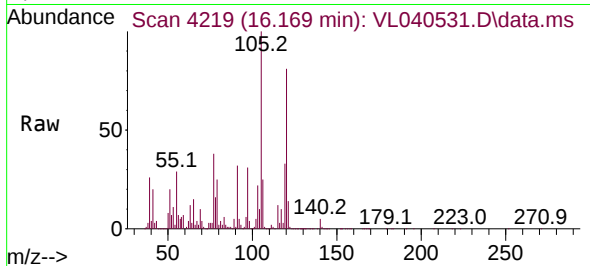




#66
Benzyl Chloride
Concen: 436.945 ppbv
RT: 16.169 min Scan# 4371
Delta R.T. -0.167 min
Lab File: VL040531.D
Acq: 14 Jul 2023 17:25

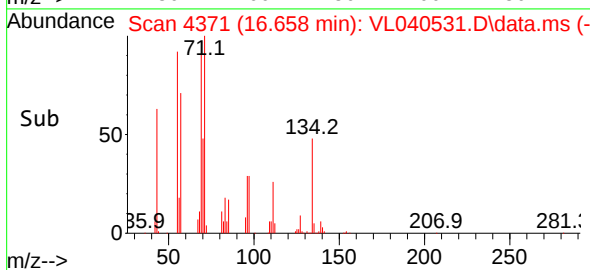
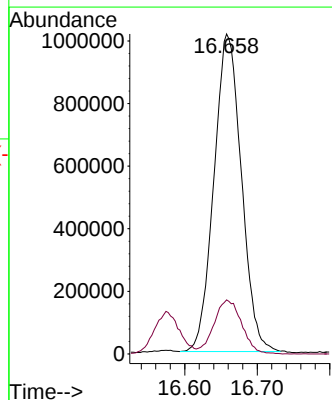
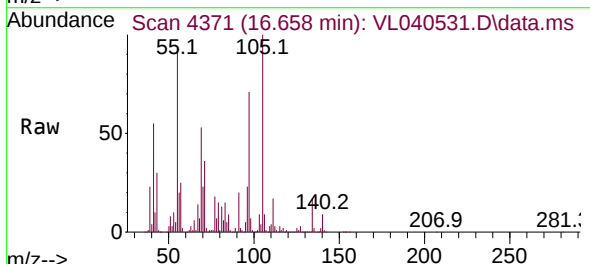
Instrument :
MSVOA_L
ClientSampleId :
IA1

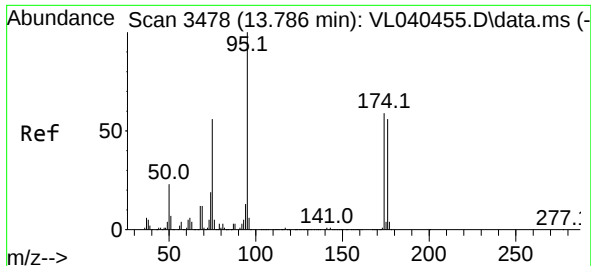
Tgt Ion: 91 Resp: 9683084
Ion Ratio Lower Upper
91 100
126 0.1 15.4 23.2#
128 0.0 4.5 6.7#



#67
sec-Butylbenzene
Concen: 5.795 ppbv
RT: 16.658 min Scan# 4371
Delta R.T. 0.010 min
Lab File: VL040531.D
Acq: 14 Jul 2023 17:25

Tgt Ion:105 Resp: 2667467
Ion Ratio Lower Upper
105 100
134 17.4 14.4 21.6

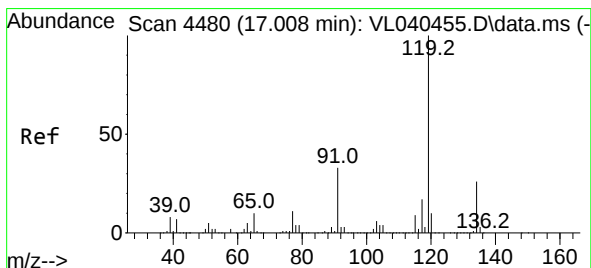
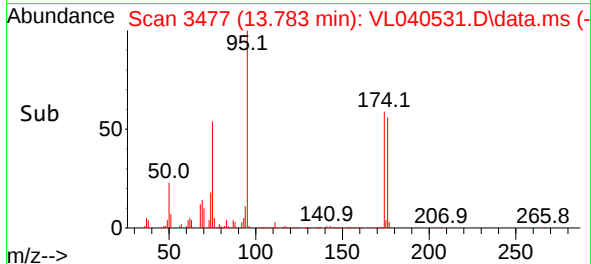
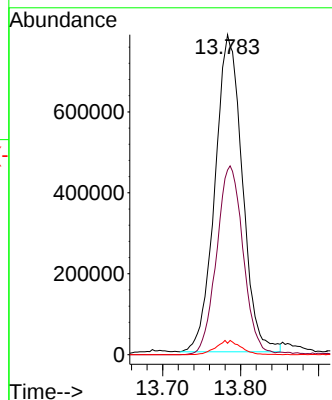
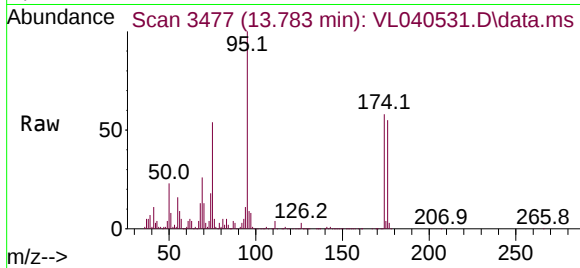




#68
1-Bromo-4-Fluorobenzene
Concen: 10.947 ppbv
RT: 13.783 min Scan# 3478
Delta R.T. 0.000 min
Lab File: VL040531.D
Acq: 14 Jul 2023 17:25

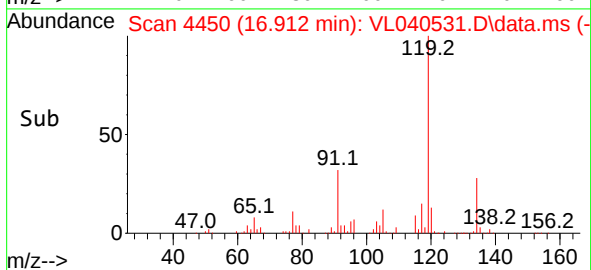
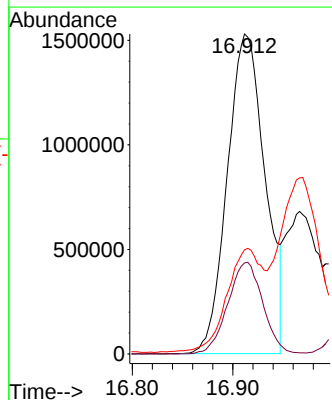
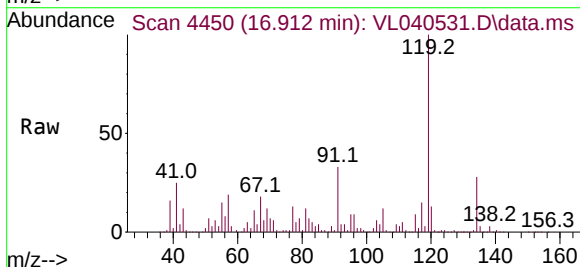
Instrument :
MSVOA_L
ClientSampleId :
IA1

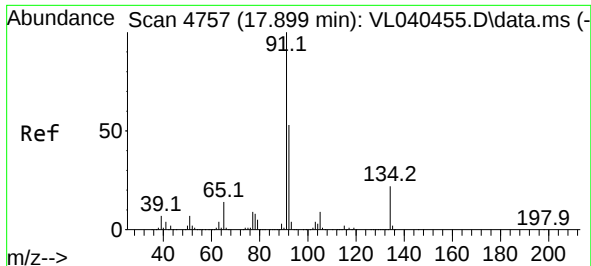
Tgt Ion: 95 Resp: 1916878
Ion Ratio Lower Upper
95 100
174 58.1 50.6 75.8
175 4.1 3.7 5.5



#69
p-Isopropyltoluene
Concen: 10.506 ppbv
RT: 16.912 min Scan# 4450
Delta R.T. -0.093 min
Lab File: VL040531.D
Acq: 14 Jul 2023 17:25

Tgt Ion: 119 Resp: 3996062
Ion Ratio Lower Upper
119 100
134 26.6 20.5 30.7
91 29.5 23.8 35.8

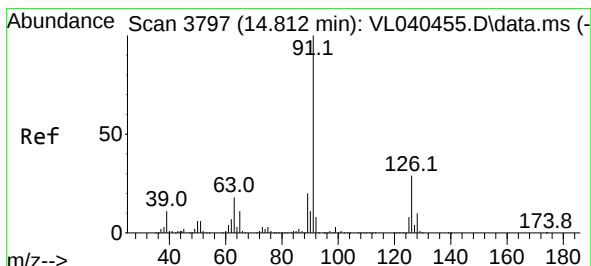
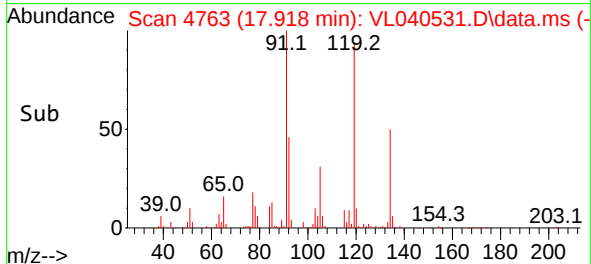
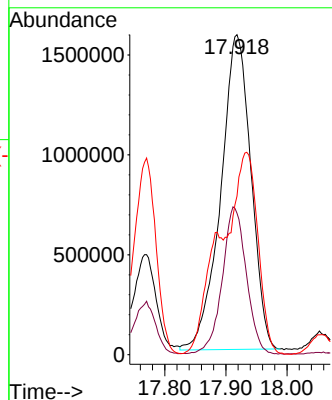
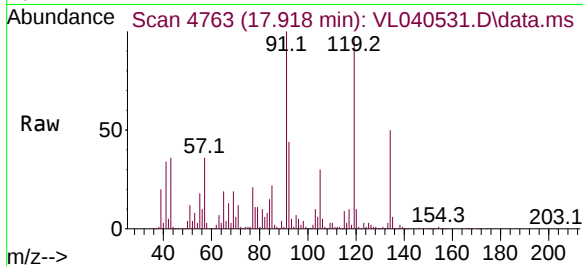




#70
n-Butylbenzene
Concen: 12.761 ppbv
RT: 17.918 min Scan# 41
Delta R.T. 0.023 min
Lab File: VL040531.D
Acq: 14 Jul 2023 17:25

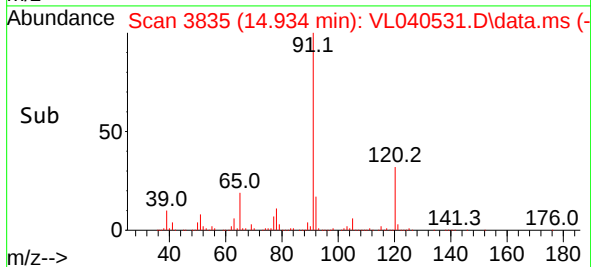
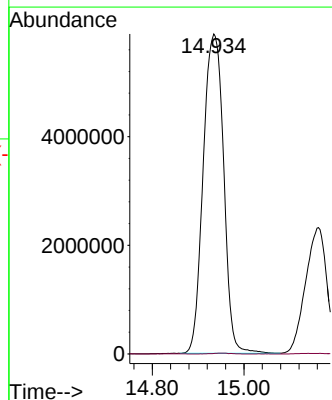
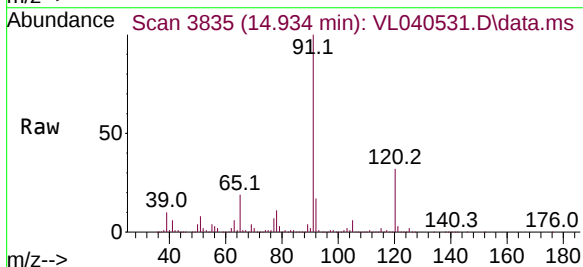
Instrument :
MSVOA_L
ClientSampleId :
IA1

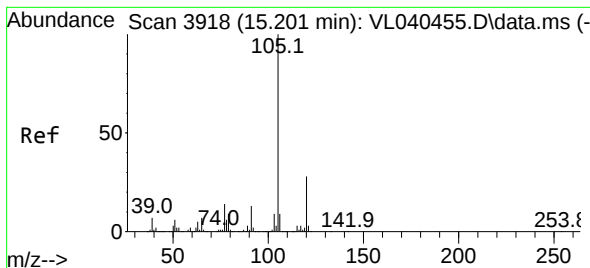
Tgt Ion: 91 Resp: 5412711
Ion Ratio Lower Upper
91 100
92 37.7 43.4 65.0#
134 79.2 18.1 27.1#



#71
2-Chlorotoluene
Concen: 66.697 ppbv
RT: 14.934 min Scan# 3835
Delta R.T. 0.122 min
Lab File: VL040531.D
Acq: 14 Jul 2023 17:25

Tgt Ion: 91 Resp: 18188793
Ion Ratio Lower Upper
91 100
126 0.2 12.4 49.8#





#72

4-Ethyltoluene

Concen: 68.758 ppbv

RT: 15.227 min Scan# 3918

Delta R.T. 0.022 min

Lab File: VL040531.D

Acq: 14 Jul 2023 17:25

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion:105 Resp:19028231

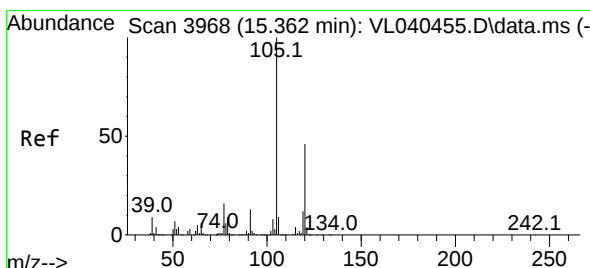
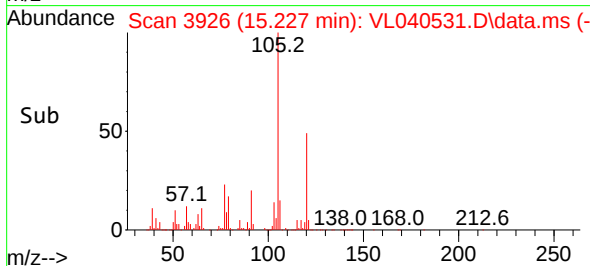
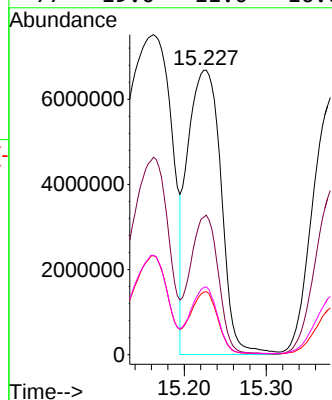
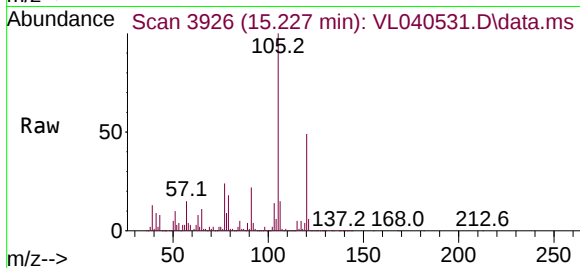
Ion Ratio Lower Upper

105 100

120 40.5 24.6 37.0#

91 17.8 10.7 16.1#

77 19.0 11.0 16.6#



#73

1,3,5-Trimethylbenzene

Concen: 83.117 ppbv

RT: 15.384 min Scan# 3975

Delta R.T. 0.023 min

Lab File: VL040531.D

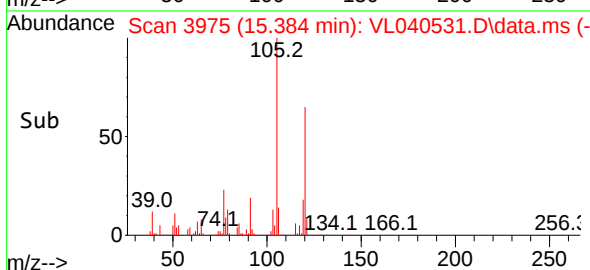
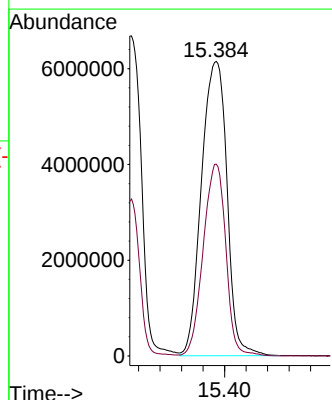
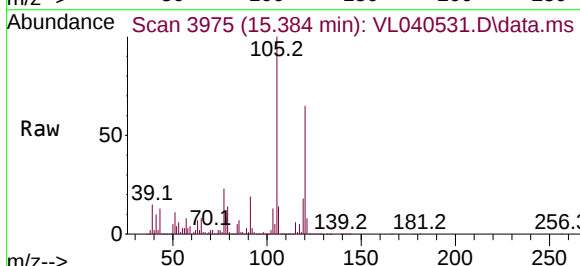
Acq: 14 Jul 2023 17:25

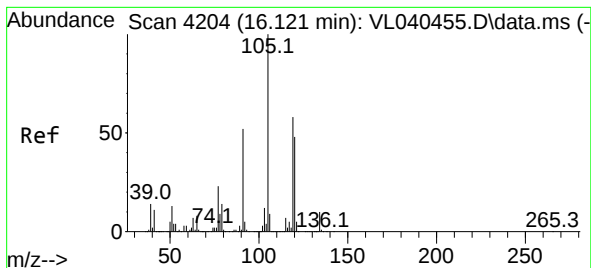
Tgt Ion:105 Resp:20275248

Ion Ratio Lower Upper

105 100

120 65.1 38.2 57.2#





#74

1,2,4-Trimethylbenzene

Concen: 141.932 ppbv

RT: 16.169 min Scan# 4322

Delta R.T. 0.051 min

Lab File: VL040531.D

Acq: 14 Jul 2023 17:25

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion:105 Resp:40367069

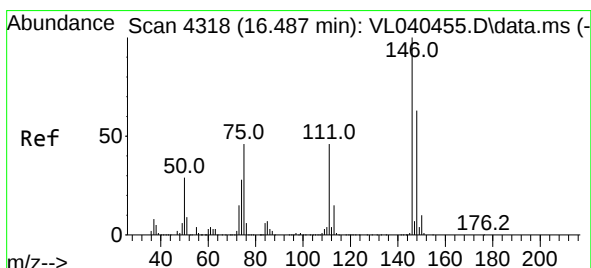
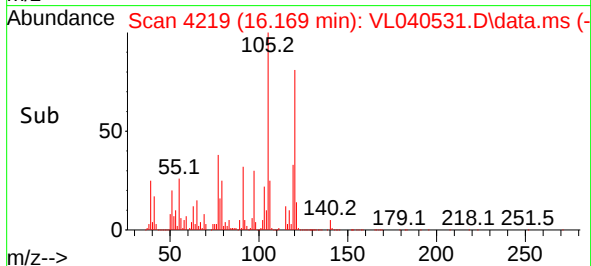
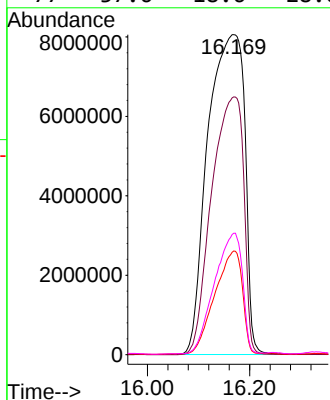
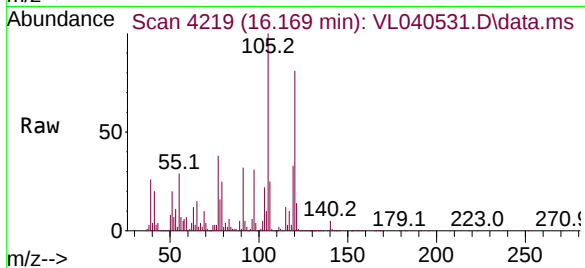
Ion Ratio Lower Upper

105 100

120 80.6 40.3 60.5#

91 32.2 46.8 70.2#

77 37.6 18.6 28.0#



#76

1,4-Dichlorobenzene

Concen: 0.197 ppbv

RT: 16.500 min Scan# 4322

Delta R.T. 0.013 min

Lab File: VL040531.D

Acq: 14 Jul 2023 17:25

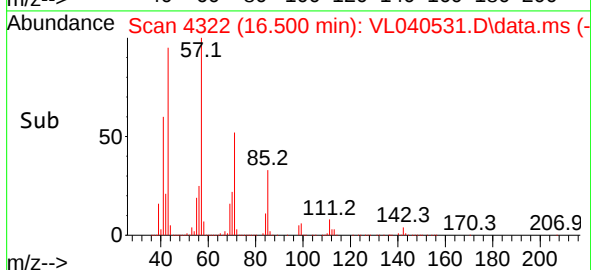
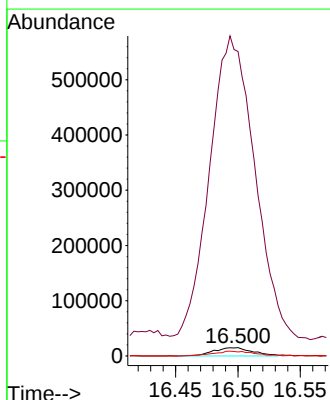
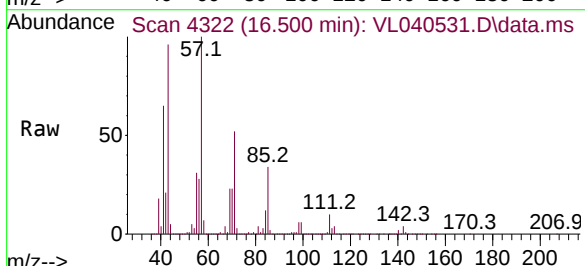
Tgt Ion:146 Resp: 33254

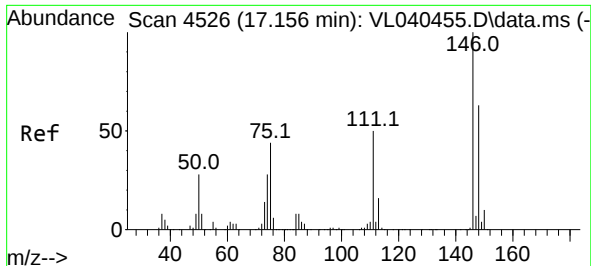
Ion Ratio Lower Upper

146 100

111 4197.7 22.8 68.3#

148 63.0 32.6 97.8

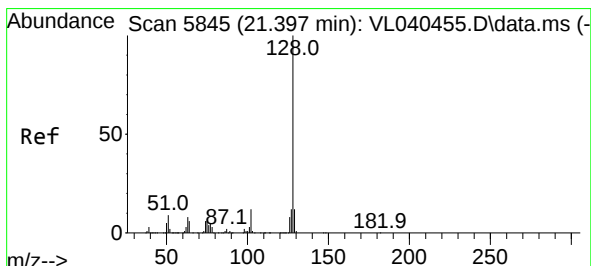
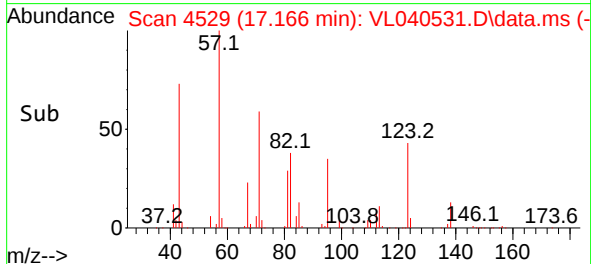
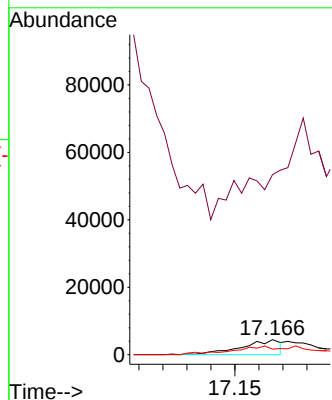
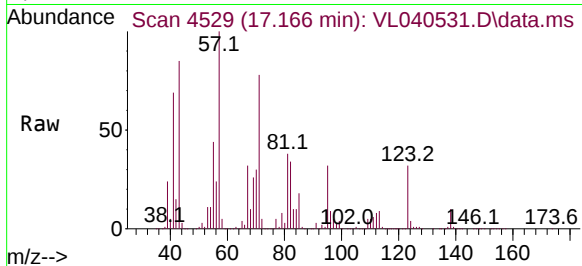




#77
1,2-Dichlorobenzene
Concen: 0.030 ppbv
RT: 17.166 min Scan# 4529
Delta R.T. 0.013 min
Lab File: VL040531.D
Acq: 14 Jul 2023 17:25

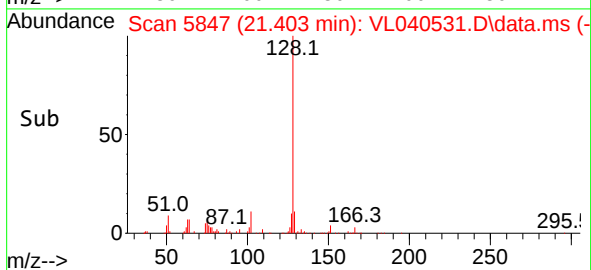
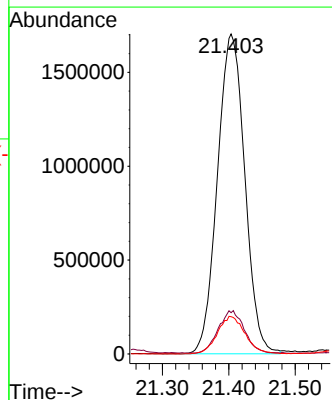
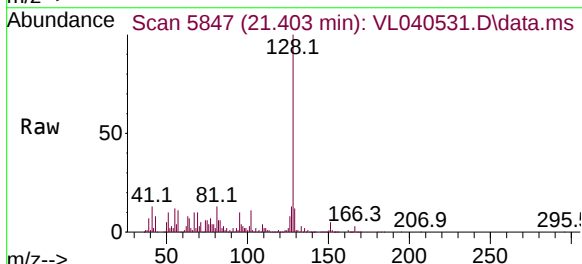
Instrument :
MSVOA_1
ClientSampleId :
IA1

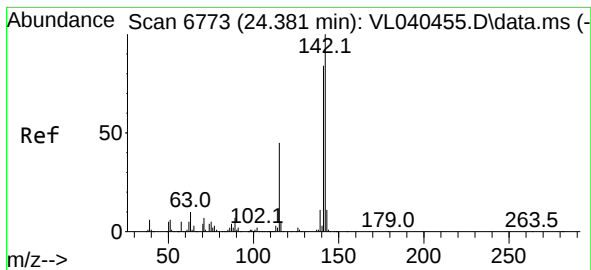
Tgt Ion:146 Resp: 4986
Ion Ratio Lower Upper
146 100
111 6882.0 24.3 72.8#
148 0.0 32.1 96.3#



#79
Naphthalene
Concen: 20.301 ppbv
RT: 21.403 min Scan# 5847
Delta R.T. 0.010 min
Lab File: VL040531.D
Acq: 14 Jul 2023 17:25

Tgt Ion:128 Resp: 4885122
Ion Ratio Lower Upper
128 100
127 12.6 10.7 16.1
129 11.7 9.2 13.8





#80

Naphthalene, 2-methyl-

Concen: 0.204 ppbv

RT: 24.722 min Scan# 61

Delta R.T. 0.344 min

Lab File: VL040531.D

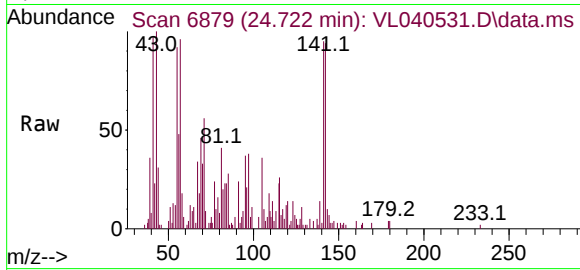
Acq: 14 Jul 2023 17:25

Instrument :

MSVOA_L

ClientSampleId :

IA1



Tgt Ion:142 Resp: 20217

Ion Ratio Lower Upper

142 100

141 92.9 66.7 100.1

115 41.8 33.0 49.6

