

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL071423\
 Data File : VL040532.D
 Acq On : 14 Jul 2023 18:12
 Operator : SY/MD
 Sample : 03636-02DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Quant Time: Jul 16 23:32:08 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	964968	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	2583888	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	2356023	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.783	95	1949665	10.456	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.600%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.732	85	81138	0.420	ppbv	95
3) Chlorodifluoromethane	2.658	51	145956	0.954	ppbv #	72
4) Chloromethane	2.819	50	44299	0.731	ppbv #	88
9) Propene	2.700	41	529010	10.103	ppbv	95
10) Heptane	7.578	43	187797	1.624	ppbv #	25
11) Trichlorofluoromethane	3.568	101	39351	0.253	ppbv	92
12) 1,1,2-Trichlorotrifluo...	4.073	101	7095	0.065	ppbv #	82
13) Ethanol	3.243	45	280585	24.629	ppbv	100
15) Acetone	3.468	43	2415495	21.747	ppbv	94
16) 1,3-Butadiene	2.970	39	34299	0.612	ppbv #	38
17) tert-Butyl alcohol	3.886	59	117030	1.019	ppbv #	92
19) Isopropyl Alcohol	3.581	45	125204	1.964	ppbv #	1
20) Methylene Chloride	3.938	84	717630	15.189	ppbv	95
21) Allyl Chloride	3.938	41	27525	0.434	ppbv #	23
23) Vinyl Acetate	4.620	43	65930	0.623	ppbv #	26
25) Ethyl Acetate	5.214	43	461925	2.184	ppbv #	81
26) Hexane	5.214	57	633619	6.450	ppbv #	44
27) Carbon Disulfide	4.128	76	15070	0.130	ppbv #	57
29) Chloroform	5.275	83	16198	0.099	ppbv	92
30) Cyclohexane	6.600	84	20388	0.249	ppbv #	1
34) 2-Butanone	4.784	43	4328607	33.902	ppbv	100
35) Carbon Tetrachloride	6.494	117	8002	0.051	ppbv #	95
36) Benzene	6.372	78	97367	0.468	ppbv	95
39) 1,2-Dichloropropane	6.655	63	624169	7.799	ppbv #	26
41) Tetrahydrofuran	5.565	42	17201	0.231	ppbv #	22
44) 2,2,4-Trimethylpentane	7.333	57	83516	0.250	ppbv #	37
50) 4-Methyl-2-Pentanone	8.189	43	34656	0.187	ppbv	98
51) 2-Hexanone	9.552	43	71018	0.541	ppbv #	97
52) Tetrachloroethene	10.623	164	366503	5.444	ppbv	97
53) Toluene	9.224	91	649893	2.878	ppbv	98
58) Ethyl Benzene	12.095	91	4169257	14.101	ppbv	99
59) m/p-Xylene	12.356	91	14861414	56.316	ppbv	91
60) o-Xylene	13.069	91	10115841	40.239	ppbv	95
61) Styrene	12.905	104	165373	1.426	ppbv	96
62) Isopropylbenzene	14.040	105	3466646	9.200	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.040	83	23666	0.134	ppbv #	25
64) n-propylbenzene	14.937	120	5071333	52.021	ppbv #	63
65) tert-Butylbenzene	16.175	119	10727643	32.160	ppbv #	76
66) Benzyl Chloride	16.175	91	10586997	448.646	ppbv #	63
67) sec-Butylbenzene	16.661	105	2940057	5.999	ppbv	100
69) p-Isopropyltoluene	16.915	119	4388428	10.835	ppbv	97
70) n-Butylbenzene	17.918	91	5729846	12.686	ppbv #	48
71) 2-Chlorotoluene	14.937	91	18706422	64.419	ppbv #	44

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Quant Time: Jul 16 23:32:08 2023
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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

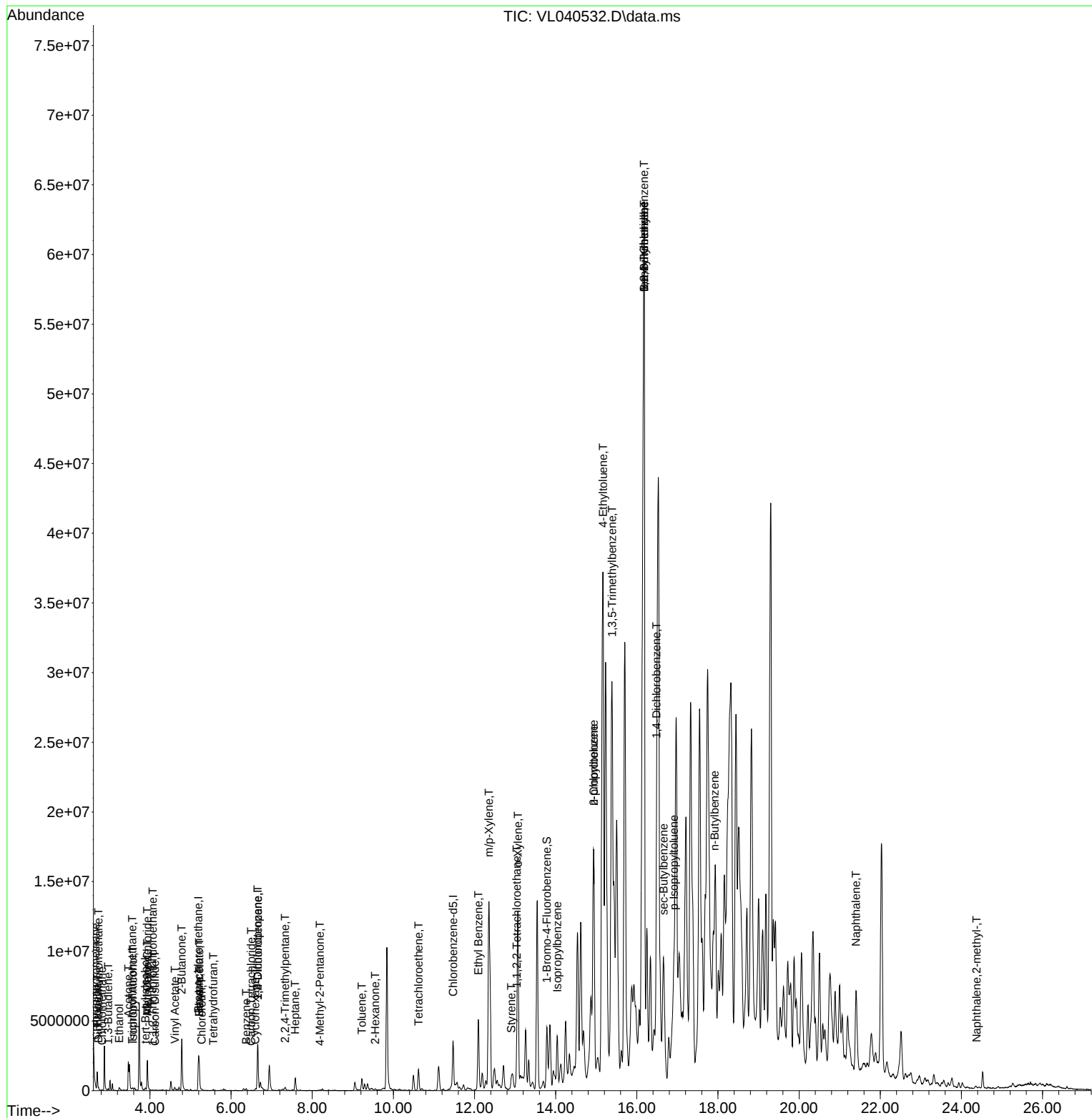
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 4-Ethyltoluene	15.166	105	31785218	107.861	ppbv #	69
73) 1,3,5-Trimethylbenzene	15.388	105	21396800	82.374	ppbv #	72
74) 1,2,4-Trimethylbenzene	16.175	105	42570549	140.566	ppbv #	62
76) 1,4-Dichlorobenzene	16.487	146	14339	0.080	ppbv #	23
79) Naphthalene	21.403	128	5081946	19.833	ppbv	99
80) Naphthalene,2-methyl-	24.374	142	62669	0.593	ppbv #	81

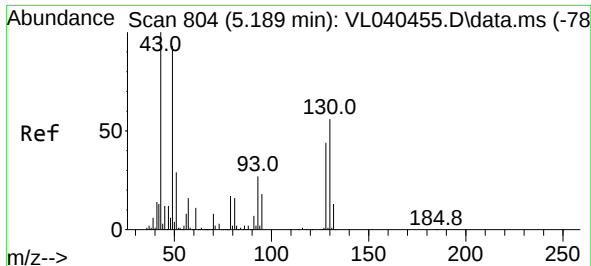
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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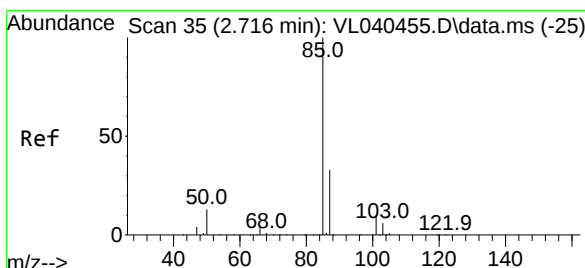
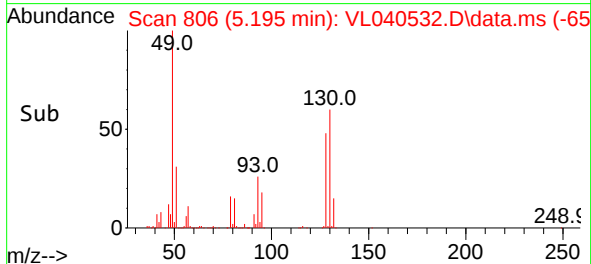
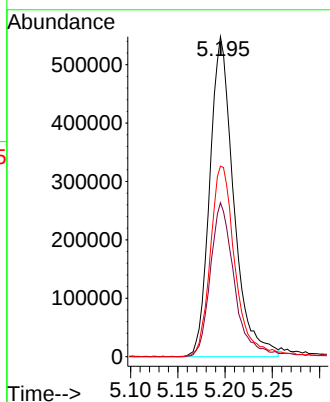
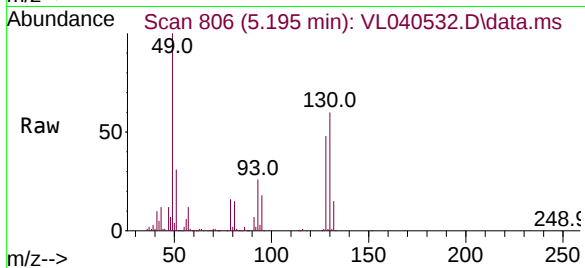




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.195 min Scan# 80
 Delta R.T. -0.007 min
 Lab File: VL040532.D
 Acq: 14 Jul 2023 18:12

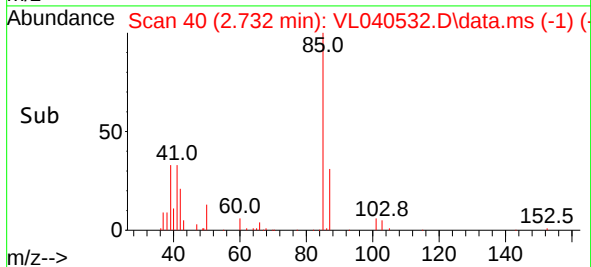
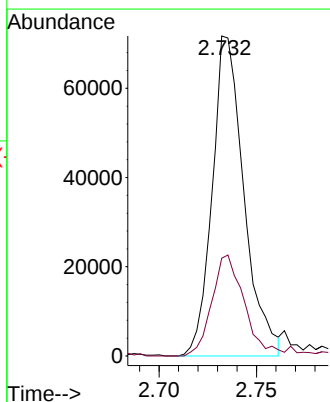
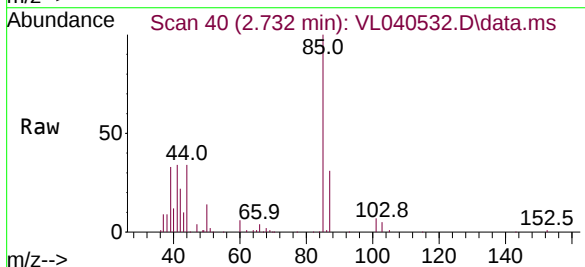
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

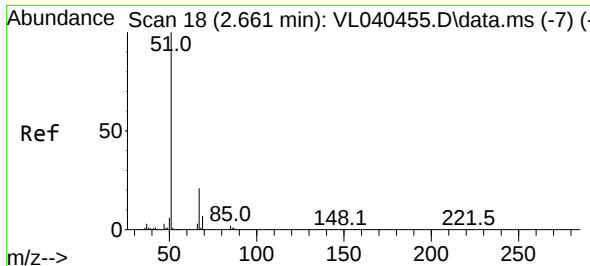
Tgt Ion: 49 Resp: 964968
 Ion Ratio Lower Upper
 49 100
 128 49.2 25.1 75.4
 130 62.8 31.6 94.7



#2
 Dichlorodifluoromethane
 Concen: 0.420 ppbv
 RT: 2.732 min Scan# 40
 Delta R.T. -0.006 min
 Lab File: VL040532.D
 Acq: 14 Jul 2023 18:12

Tgt Ion: 85 Resp: 81138
 Ion Ratio Lower Upper
 85 100
 87 30.6 26.8 40.2

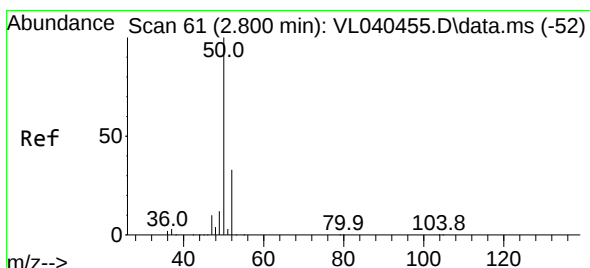
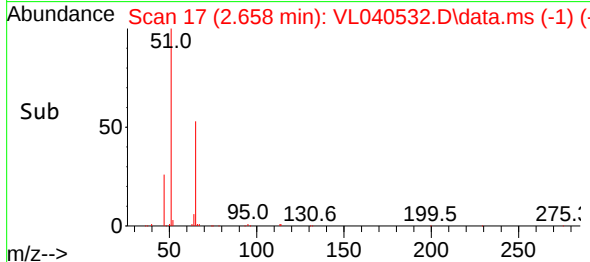
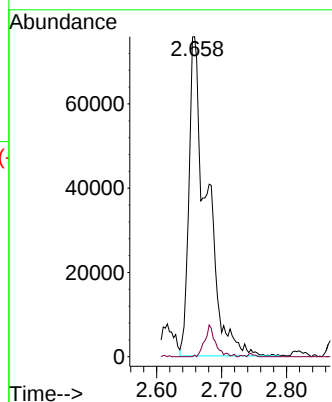
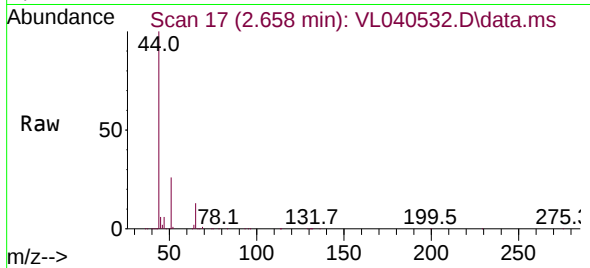




#3
Chlorodifluoromethane
Concen: 0.954 ppbv
RT: 2.658 min Scan# 11
Delta R.T. -0.026 min
Lab File: VL040532.D
Acq: 14 Jul 2023 18:12

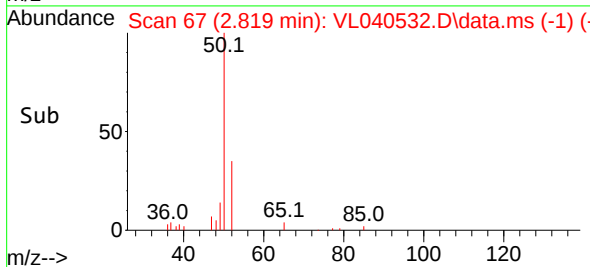
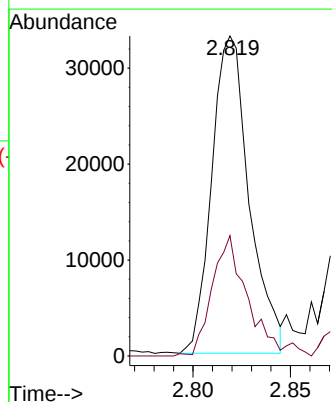
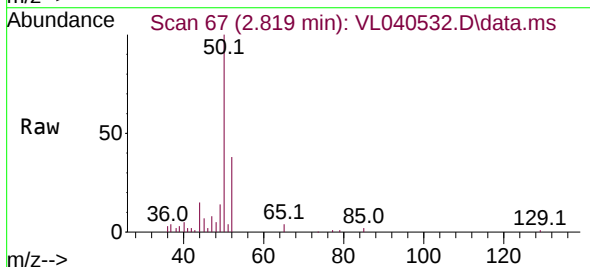
Instrument :
MSVOA_L
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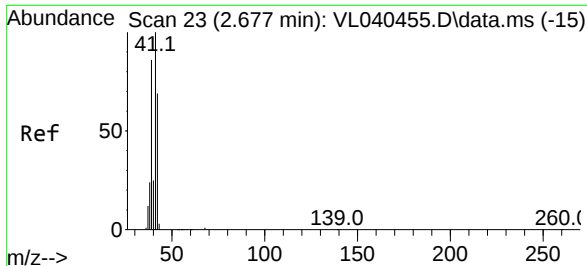
Tgt Ion: 51 Resp: 145956
Ion Ratio Lower Upper
51 100
67 5.9 14.6 21.8#



#4
Chloromethane
Concen: 0.731 ppbv
RT: 2.819 min Scan# 67
Delta R.T. -0.003 min
Lab File: VL040532.D
Acq: 14 Jul 2023 18:12

Tgt Ion: 50 Resp: 44299
Ion Ratio Lower Upper
50 100
52 37.2 24.4 36.6#





#9

Propene

Concen: 10.103 ppbv

RT: 2.700 min Scan# 30

Delta R.T. -0.003 min

Lab File: VL040532.D

Acq: 14 Jul 2023 18:12

Instrument :

MSVOA_L

ClientSampleId :

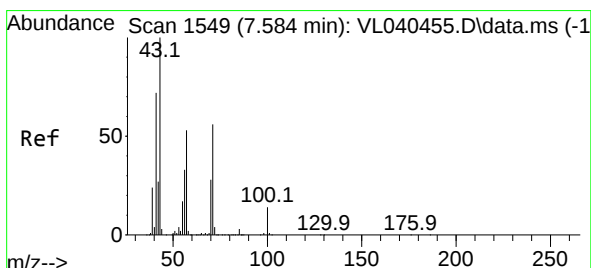
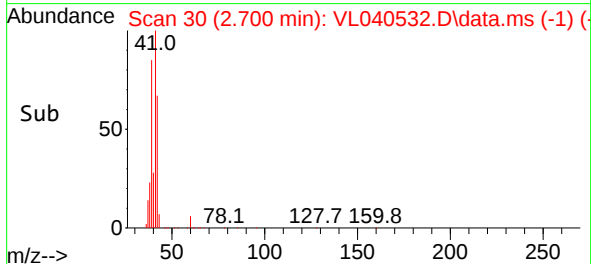
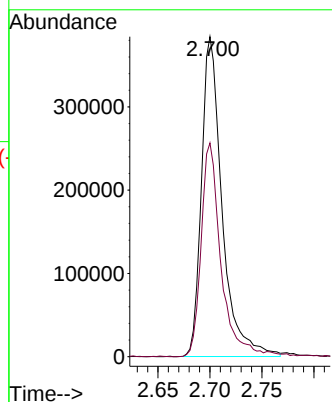
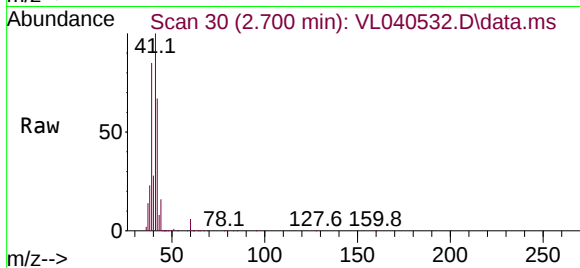
IA1DUP

Tgt Ion: 41 Resp: 529010

Ion Ratio Lower Upper

41 100

42 65.1 55.0 82.6



#10

Heptane

Concen: 1.624 ppbv

RT: 7.578 min Scan# 1547

Delta R.T. -0.013 min

Lab File: VL040532.D

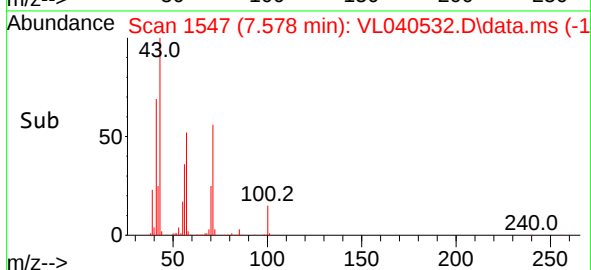
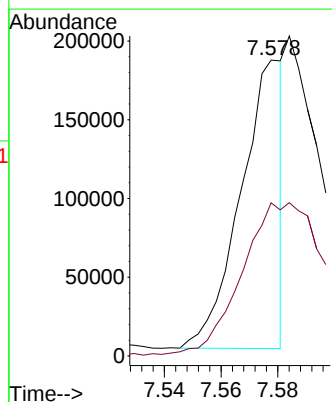
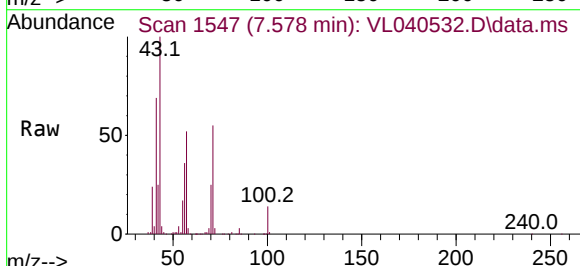
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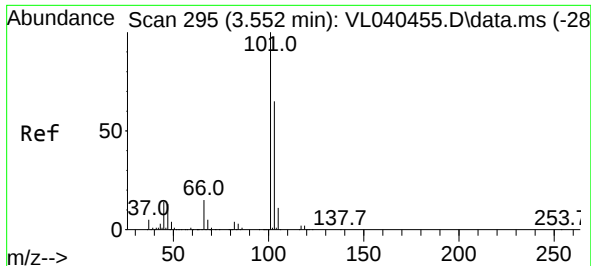
Tgt Ion: 43 Resp: 187797

Ion Ratio Lower Upper

43 100

57 0.0 42.5 63.7#

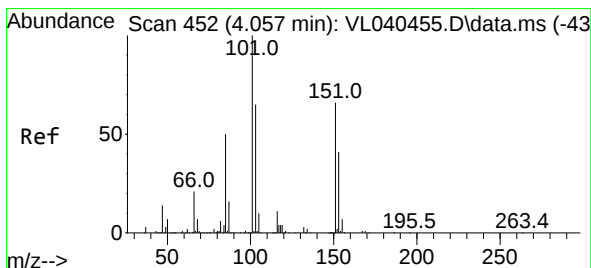
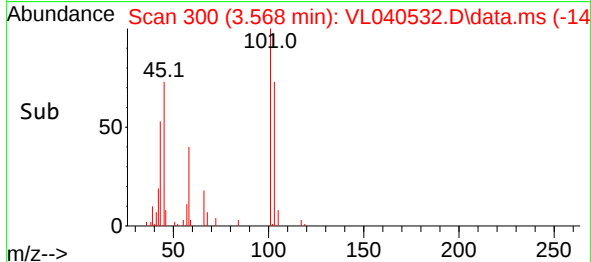
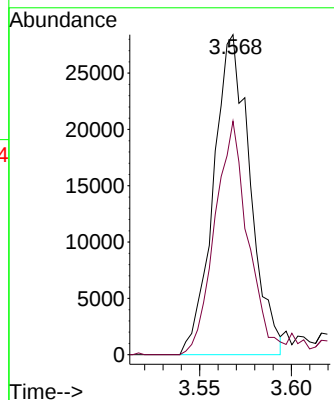
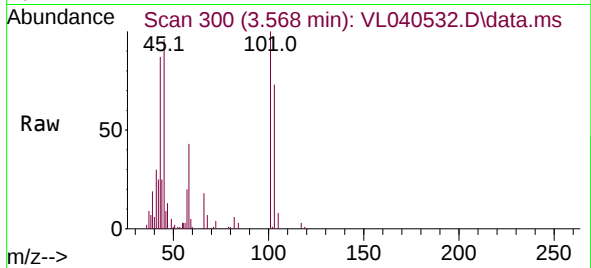




#11
 Trichlorofluoromethane
 Concen: 0.253 ppbv
 RT: 3.568 min Scan# 300
 Delta R.T. -0.003 min
 Lab File: VL040532.D
 Acq: 14 Jul 2023 18:12

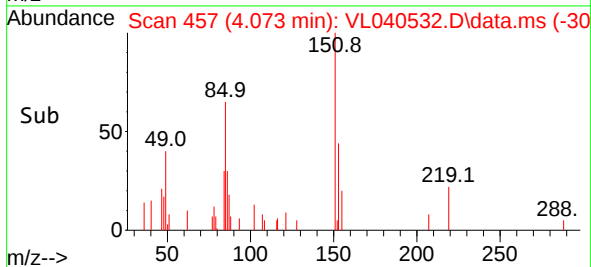
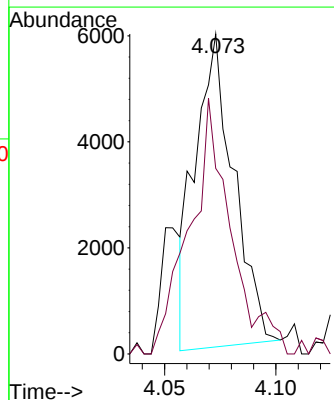
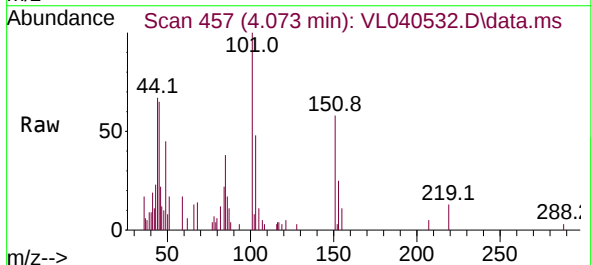
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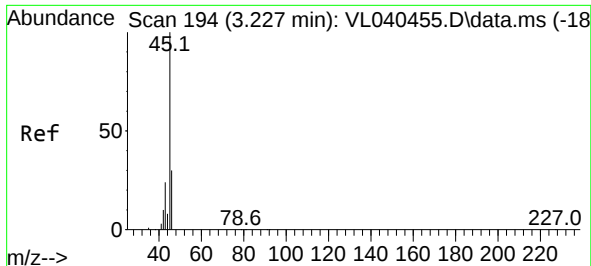
Tgt Ion:101 Resp: 39351
 Ion Ratio Lower Upper
 101 100
 103 72.9 53.4 80.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.065 ppbv
 RT: 4.073 min Scan# 457
 Delta R.T. 0.000 min
 Lab File: VL040532.D
 Acq: 14 Jul 2023 18:12

Tgt Ion:101 Resp: 7095
 Ion Ratio Lower Upper
 101 100
 151 87.7 58.2 87.4#

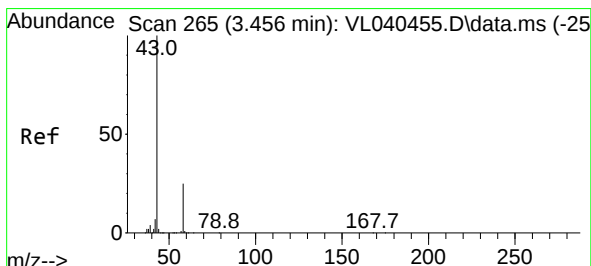
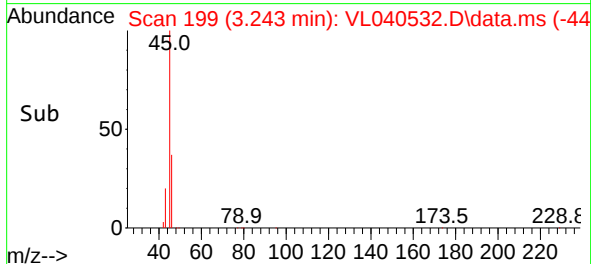
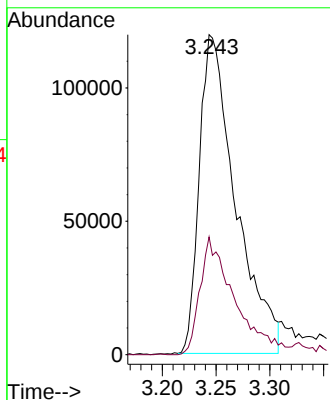
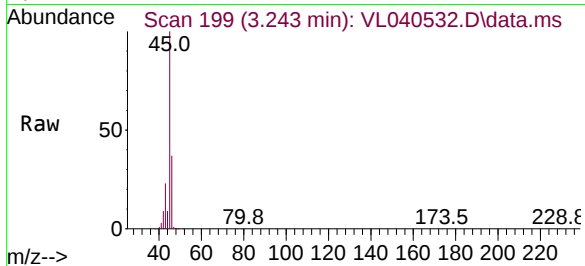




#13
 Ethanol
 Concen: 24.629 ppbv
 RT: 3.243 min Scan# 194
 Delta R.T. -0.003 min
 Lab File: VL040532.D
 Acq: 14 Jul 2023 18:12

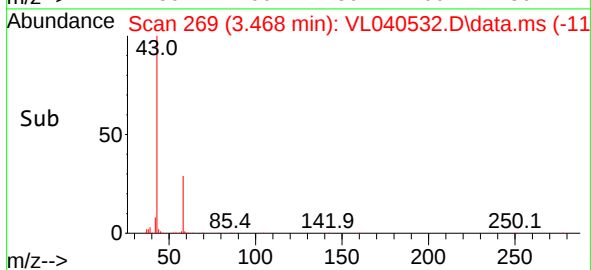
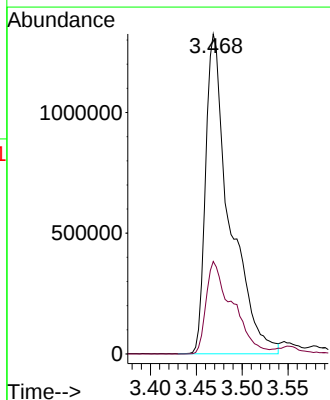
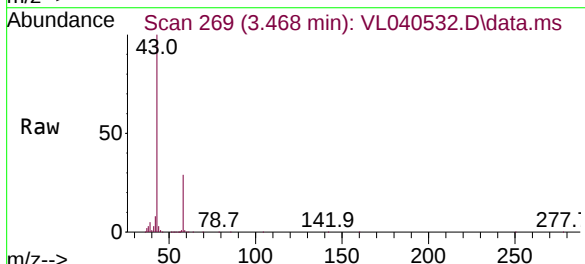
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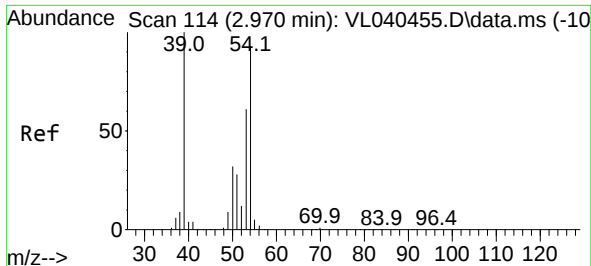
Tgt Ion: 45 Resp: 280585
 Ion Ratio Lower Upper
 45 100
 46 38.1 15.3 61.1



#15
 Acetone
 Concen: 21.747 ppbv
 RT: 3.468 min Scan# 269
 Delta R.T. -0.006 min
 Lab File: VL040532.D
 Acq: 14 Jul 2023 18:12

Tgt Ion: 43 Resp: 2415495
 Ion Ratio Lower Upper
 43 100
 58 31.8 22.9 34.3

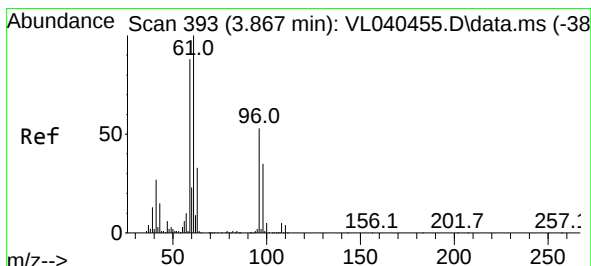
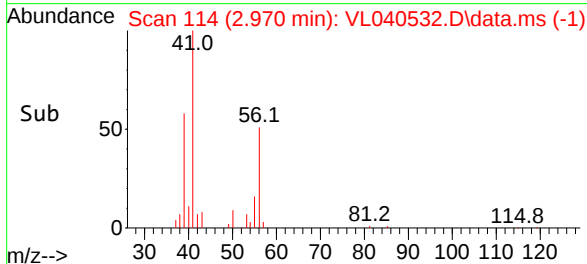
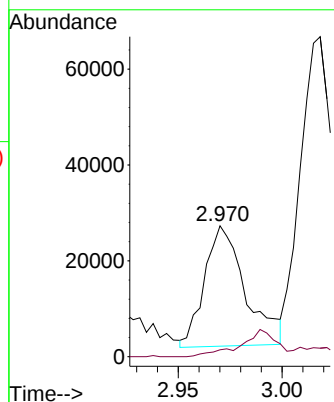
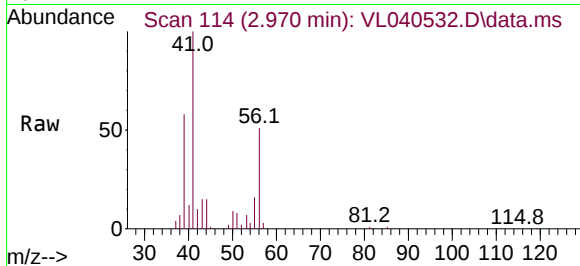




#16
1,3-Butadiene
Concen: 0.612 ppbv
RT: 2.970 min Scan# 114
Delta R.T. -0.022 min
Lab File: VL040532.D
Acq: 14 Jul 2023 18:12

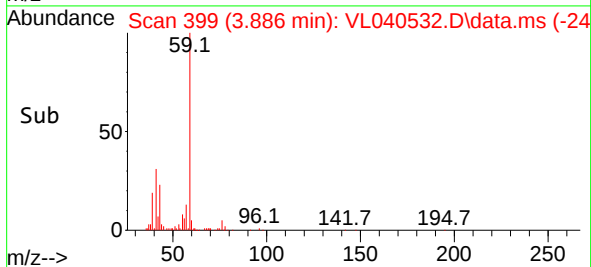
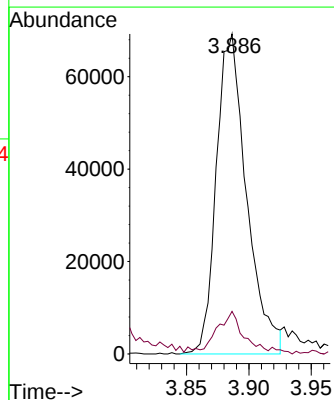
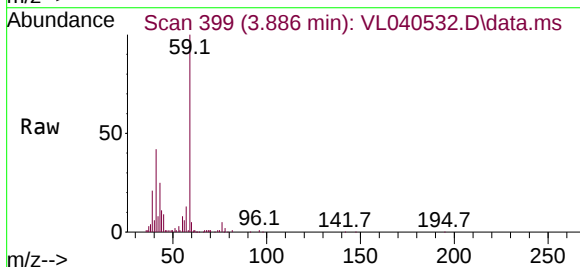
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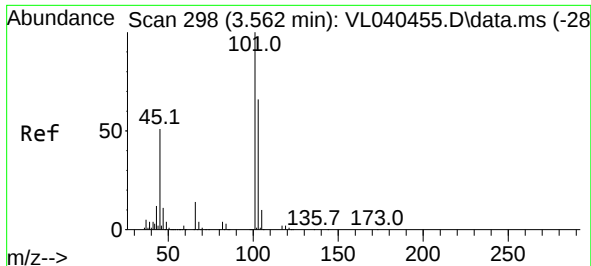
Tgt Ion: 39 Resp: 34299
Ion Ratio Lower Upper
39 100
54 26.9 66.6 100.0#



#17
tert-Butyl alcohol
Concen: 1.019 ppbv
RT: 3.886 min Scan# 399
Delta R.T. 0.003 min
Lab File: VL040532.D
Acq: 14 Jul 2023 18:12

Tgt Ion: 59 Resp: 117030
Ion Ratio Lower Upper
59 100
57 13.8 8.7 13.1#





#19

Isopropyl Alcohol

Concen: 1.964 ppbv

RT: 3.581 min Scan# 304

Delta R.T. 0.000 min

Lab File: VL040532.D

Acq: 14 Jul 2023 18:12

Instrument :

MSVOA_L

ClientSampleId :

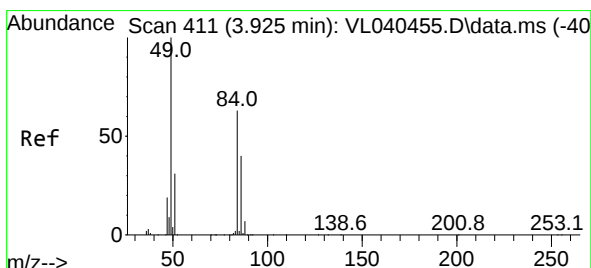
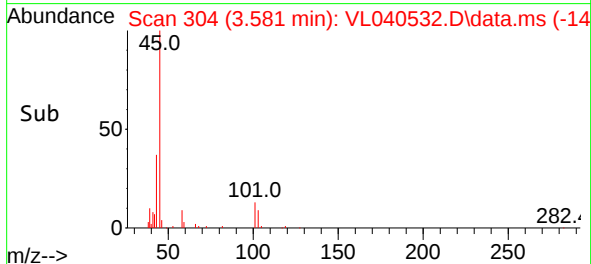
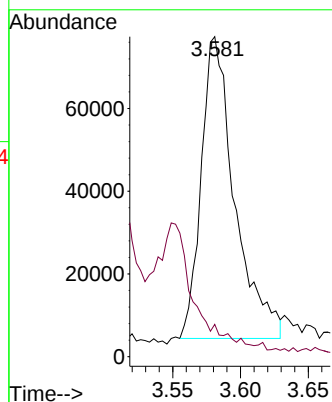
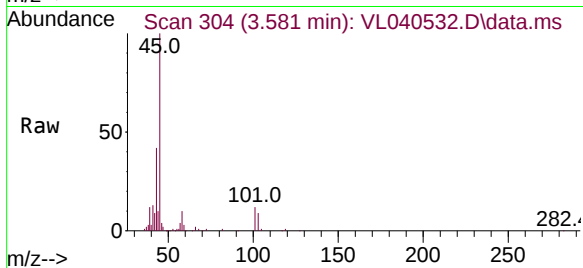
IA1DUP

Tgt Ion: 45 Resp: 125204

Ion Ratio Lower Upper

45 100

58 50.8 1.1 1.7#



#20

Methylene Chloride

Concen: 15.189 ppbv

RT: 3.938 min Scan# 415

Delta R.T. -0.003 min

Lab File: VL040532.D

Acq: 14 Jul 2023 18:12

Tgt Ion: 84 Resp: 717630

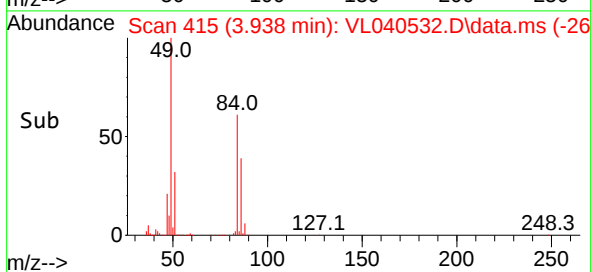
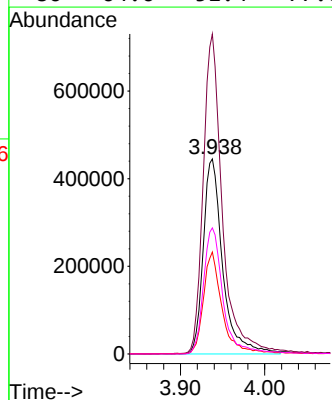
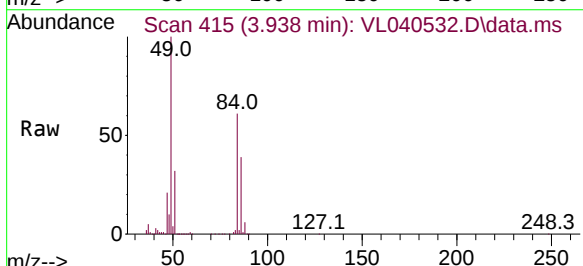
Ion Ratio Lower Upper

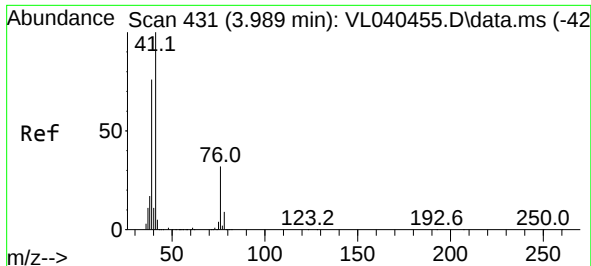
84 100

49 163.8 123.4 185.2

51 52.0 38.3 57.5

86 64.6 51.4 77.0





#21

Allyl Chloride

Concen: 0.434 ppbv

RT: 3.938 min Scan# 41

Delta R.T. -0.067 min

Lab File: VL040532.D

Acq: 14 Jul 2023 18:12

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

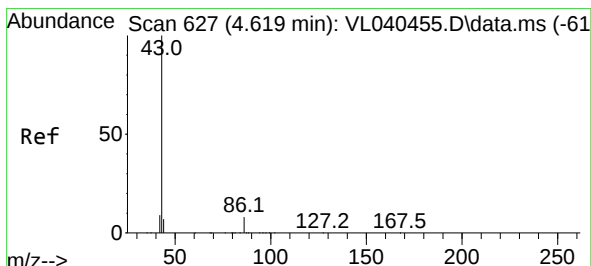
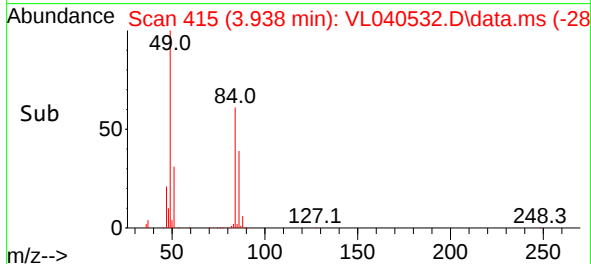
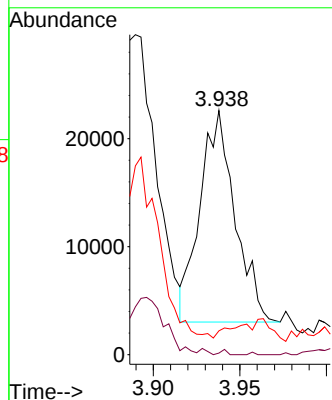
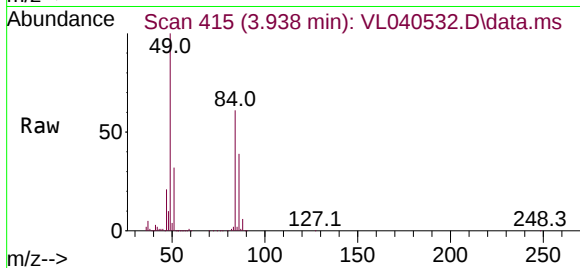
Tgt Ion: 41 Resp: 27525

Ion Ratio Lower Upper

41 100

76 3.3 24.8 37.2#

39 0.0 60.6 91.0#



#23

Vinyl Acetate

Concen: 0.623 ppbv

RT: 4.620 min Scan# 627

Delta R.T. -0.016 min

Lab File: VL040532.D

Acq: 14 Jul 2023 18:12

Tgt Ion: 43 Resp: 65930

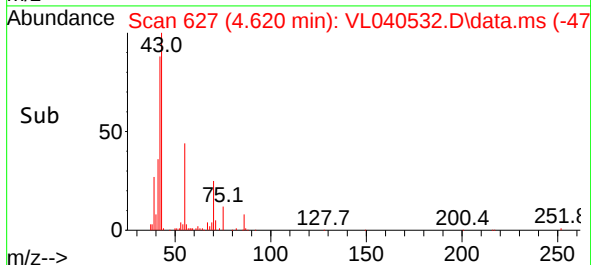
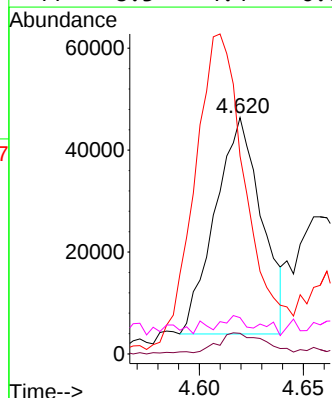
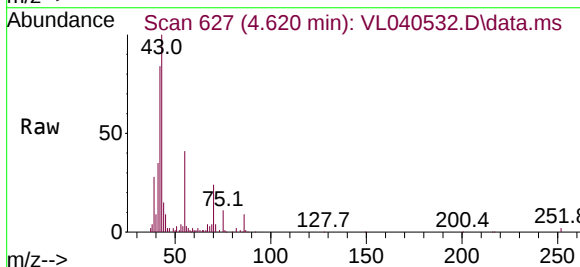
Ion Ratio Lower Upper

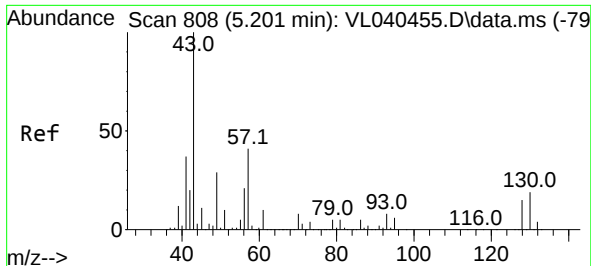
43 100

86 8.6 5.6 8.4#

42 69.0 7.4 11.2#

44 8.3 4.4 6.6#



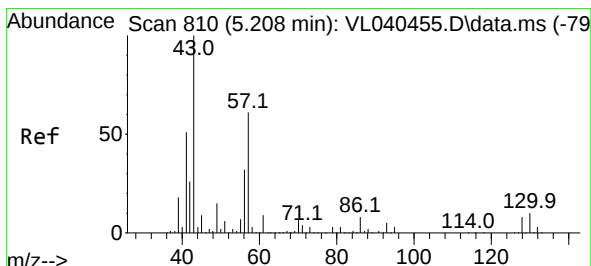
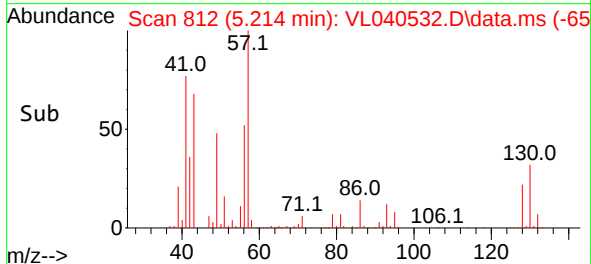
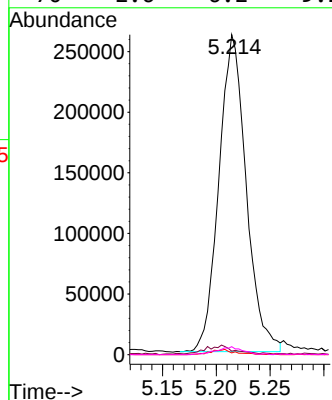
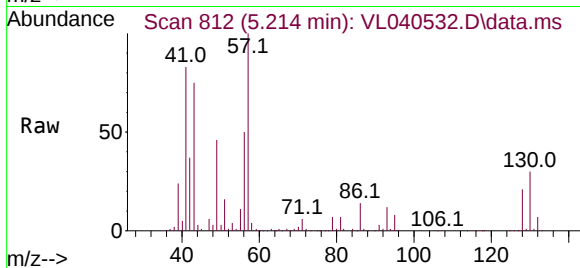


#25
Ethyl Acetate
Concen: 2.184 ppbv
RT: 5.214 min Scan# 812
Delta R.T. 0.003 min
Lab File: VL040532.D
Acq: 14 Jul 2023 18:12

Instrument :
MSVOA_1
ClientSampleId :
IA1DUP

Tgt Ion: 43 Resp: 461925

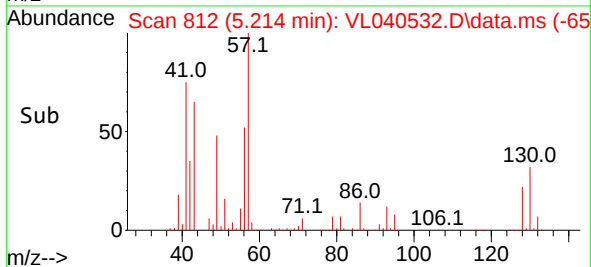
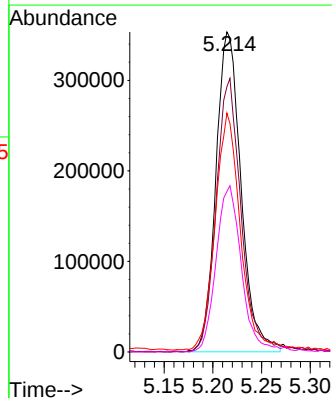
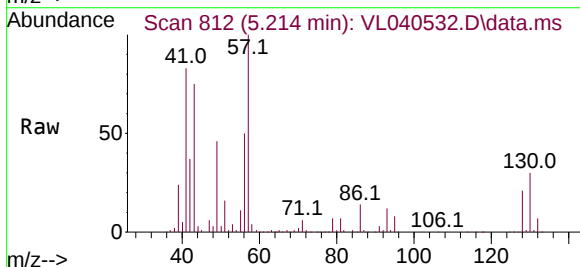
Ion	Ratio	Lower	Upper
43	100		
45	3.5	8.2	12.4#
61	1.5	8.3	12.5#
70	2.6	6.2	9.2#

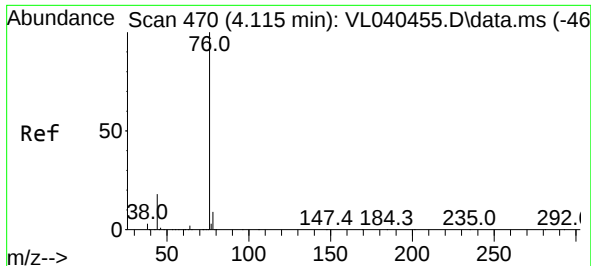


#26
Hexane
Concen: 6.450 ppbv
RT: 5.214 min Scan# 812
Delta R.T. -0.006 min
Lab File: VL040532.D
Acq: 14 Jul 2023 18:12

Tgt Ion: 57 Resp: 633619

Ion	Ratio	Lower	Upper
57	100		
41	85.6	69.5	104.3
43	75.8	177.1	265.7#
56	53.3	42.3	63.5

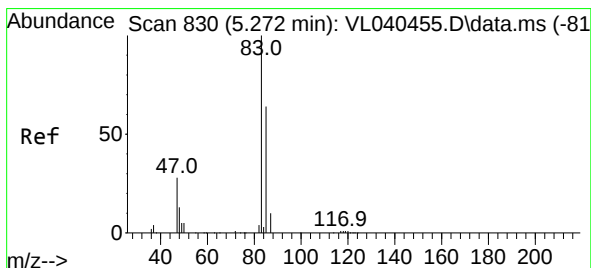
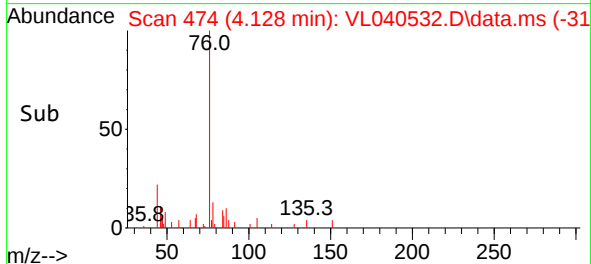
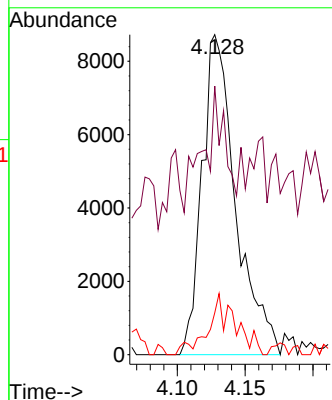
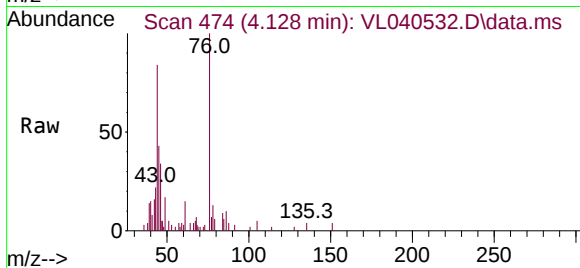




#27
Carbon Disulfide
Concen: 0.130 ppbv
RT: 4.128 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL040532.D
Acq: 14 Jul 2023 18:12

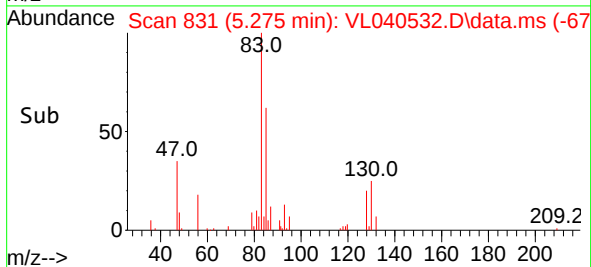
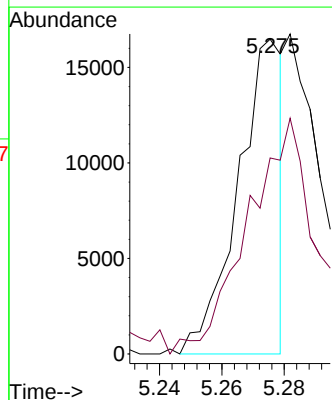
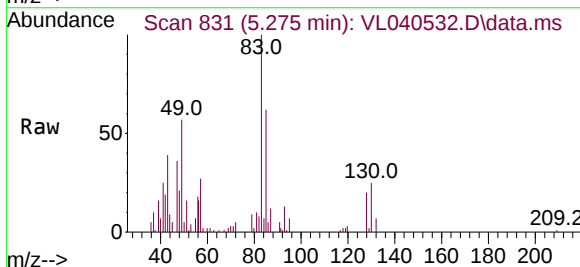
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

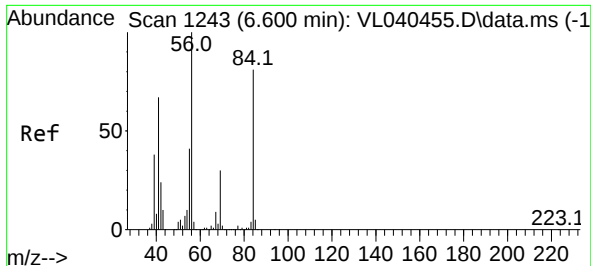
Tgt Ion: 76 Resp: 15070
Ion Ratio Lower Upper
76 100
44 43.2 15.1 22.7#
78 17.5 7.5 11.3#



#29
Chloroform
Concen: 0.099 ppbv
RT: 5.275 min Scan# 831
Delta R.T. -0.010 min
Lab File: VL040532.D
Acq: 14 Jul 2023 18:12

Tgt Ion: 83 Resp: 16198
Ion Ratio Lower Upper
83 100
85 57.6 51.1 76.7

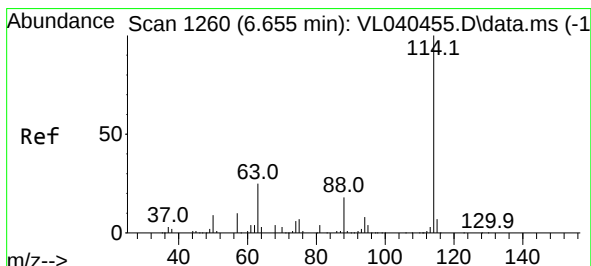
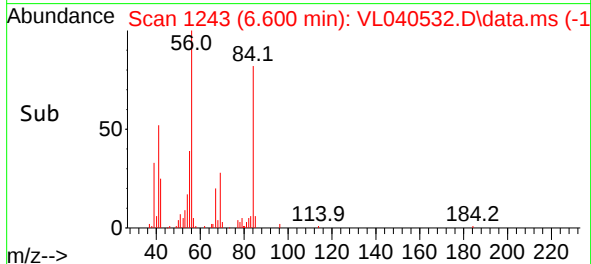
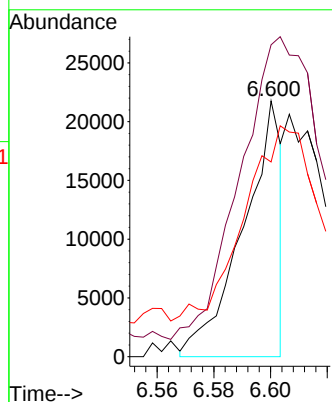
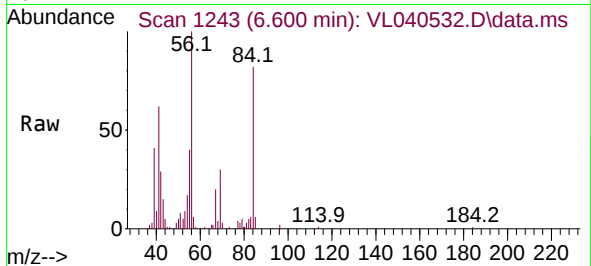




#30
Cyclohexane
Concen: 0.249 ppbv
RT: 6.600 min Scan# 1243
Delta R.T. -0.010 min
Lab File: VL040532.D
Acq: 14 Jul 2023 18:12

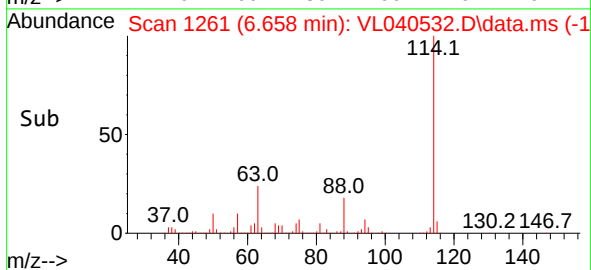
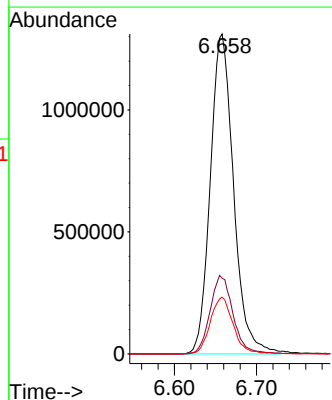
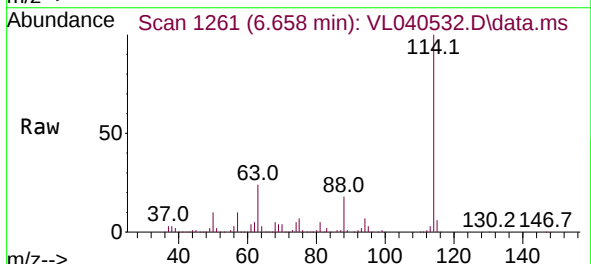
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

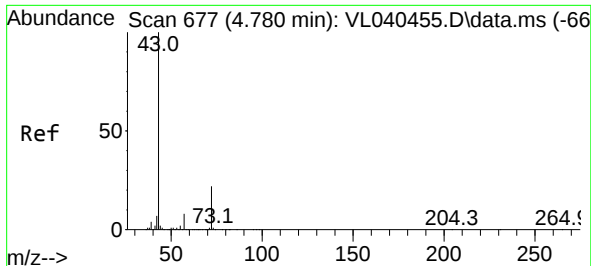
Tgt Ion: 84 Resp: 20388
Ion Ratio Lower Upper
84 100
56 0.0 108.7 163.1#
41 0.0 64.5 96.7#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.658 min Scan# 1261
Delta R.T. -0.006 min
Lab File: VL040532.D
Acq: 14 Jul 2023 18:12

Tgt Ion: 114 Resp: 2583888
Ion Ratio Lower Upper
114 100
63 24.5 19.6 29.4
88 17.6 14.2 21.2

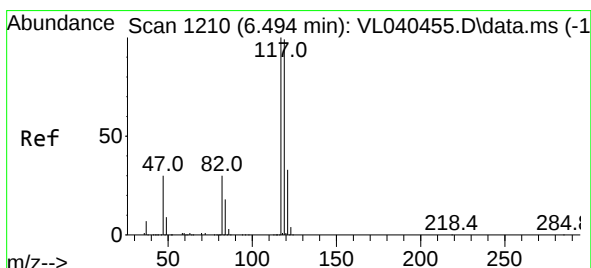
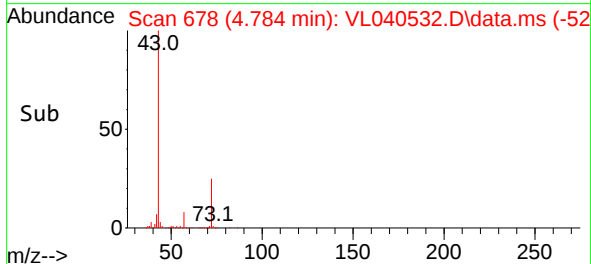
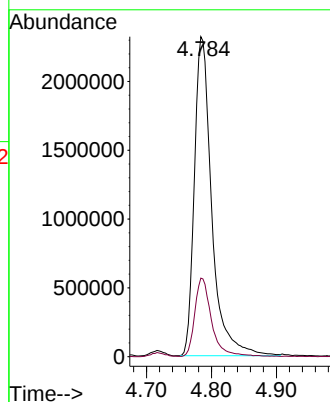
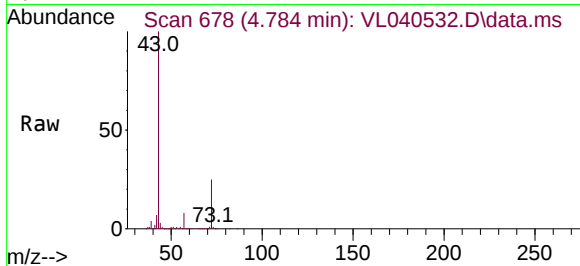




#34
2-Butanone
Concen: 33.902 ppbv
RT: 4.784 min Scan# 61
Delta R.T. -0.010 min
Lab File: VL040532.D
Acq: 14 Jul 2023 18:12

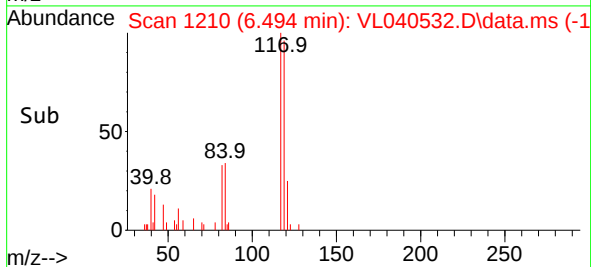
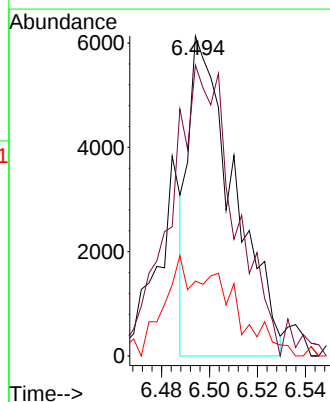
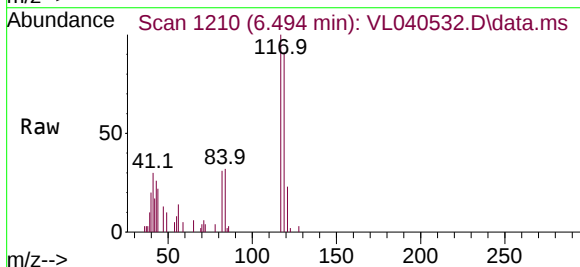
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

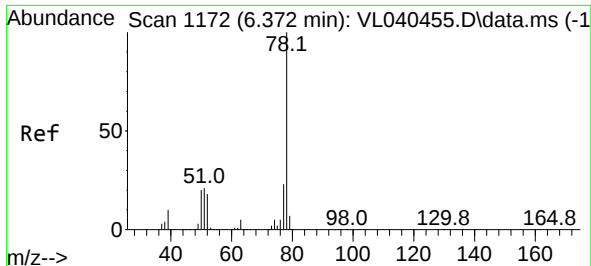
Tgt Ion: 43 Resp: 4328607
Ion Ratio Lower Upper
43 100
72 24.1 19.1 28.7



#35
Carbon Tetrachloride
Concen: 0.051 ppbv
RT: 6.494 min Scan# 1210
Delta R.T. -0.010 min
Lab File: VL040532.D
Acq: 14 Jul 2023 18:12

Tgt Ion: 117 Resp: 8002
Ion Ratio Lower Upper
117 100
119 96.9 77.8 116.6
121 21.3 24.8 37.2#

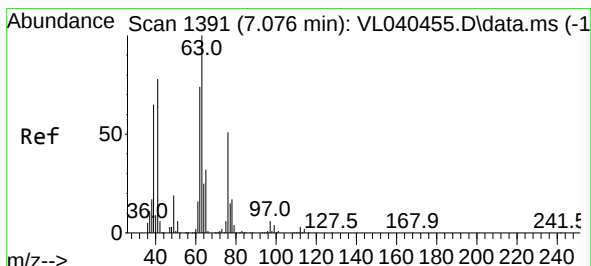
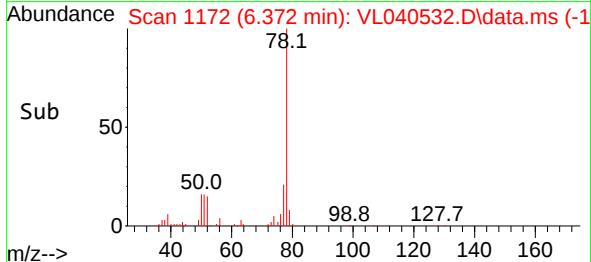
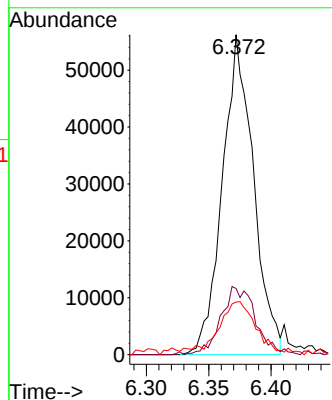
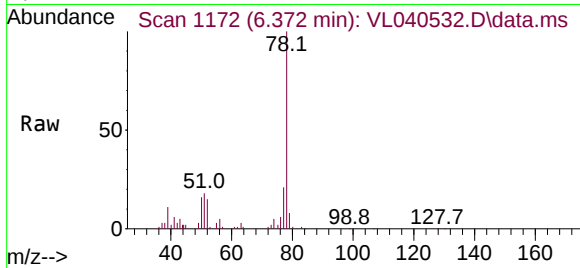




#36
Benzene
Concen: 0.468 ppbv
RT: 6.372 min Scan# 1172
Delta R.T. -0.010 min
Lab File: VL040532.D
Acq: 14 Jul 2023 18:12

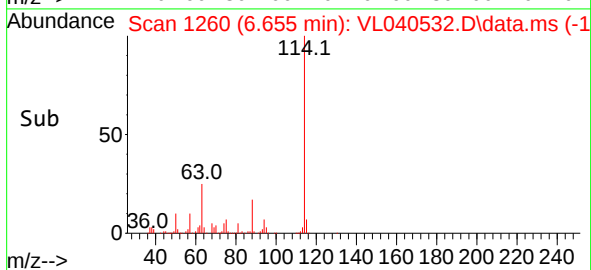
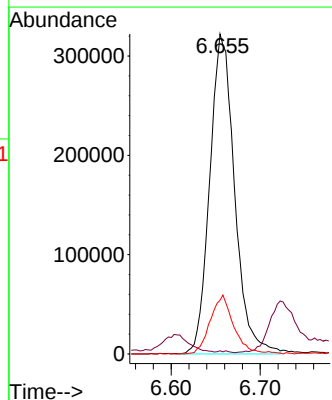
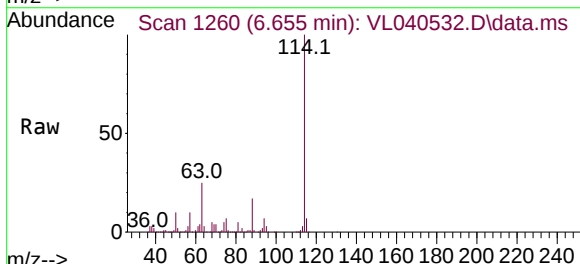
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

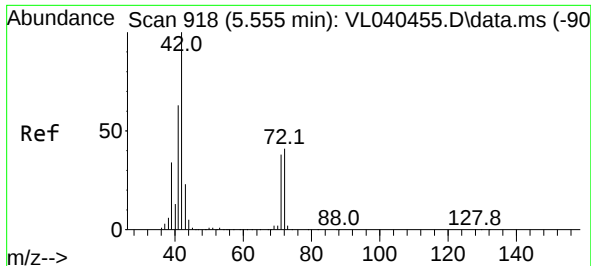
Tgt Ion:	78	Resp:	97367
Ion	Ratio	Lower	Upper
78	100		
77	19.8	17.4	26.0
50	15.1	14.4	21.6



#39
1,2-Dichloropropane
Concen: 7.799 ppbv
RT: 6.655 min Scan# 1260
Delta R.T. -0.428 min
Lab File: VL040532.D
Acq: 14 Jul 2023 18:12

Tgt Ion:	63	Resp:	624169
Ion	Ratio	Lower	Upper
63	100		
41	0.0	54.3	81.5#
62	16.7	55.6	83.4#





#41

Tetrahydrofuran

Concen: 0.231 ppbv

RT: 5.565 min Scan# 918

Delta R.T. 0.000 min

Lab File: VL040532.D

Acq: 14 Jul 2023 18:12

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

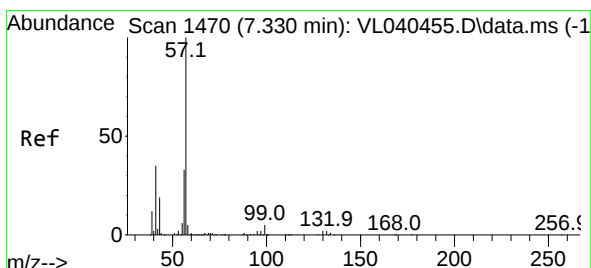
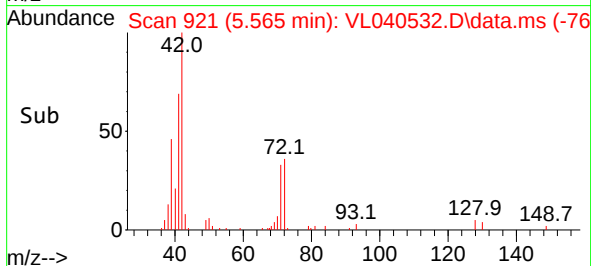
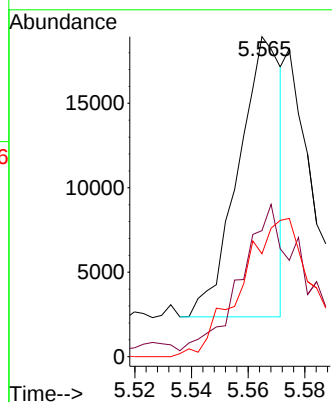
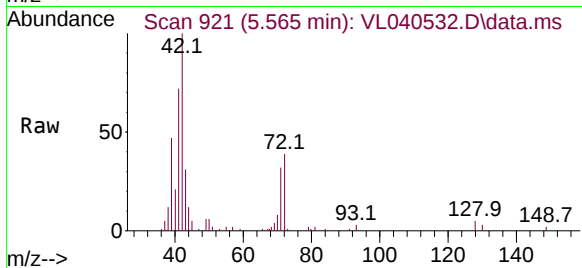
Tgt Ion: 42 Resp: 17201

Ion Ratio Lower Upper

42 100

72 99.5 33.8 50.8#

71 0.0 33.0 49.6#



#44

2,2,4-Trimethylpentane

Concen: 0.250 ppbv

RT: 7.333 min Scan# 1471

Delta R.T. -0.003 min

Lab File: VL040532.D

Acq: 14 Jul 2023 18:12

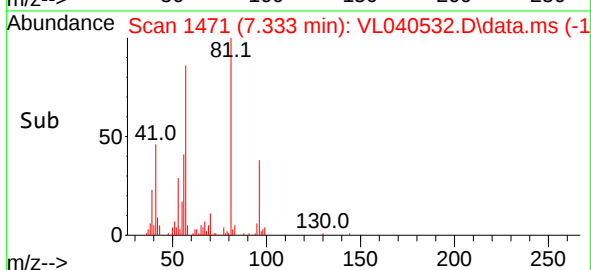
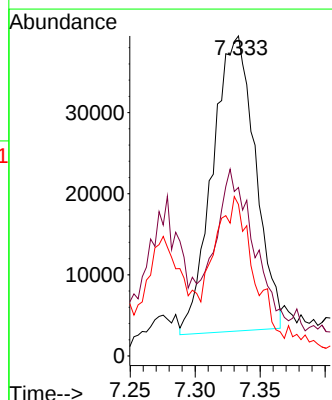
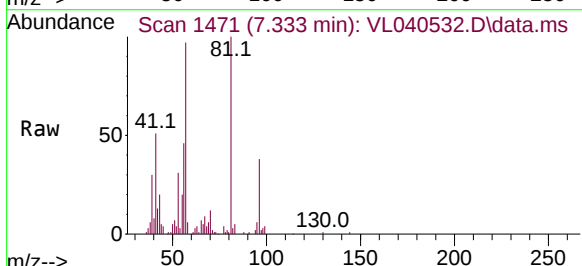
Tgt Ion: 57 Resp: 83516

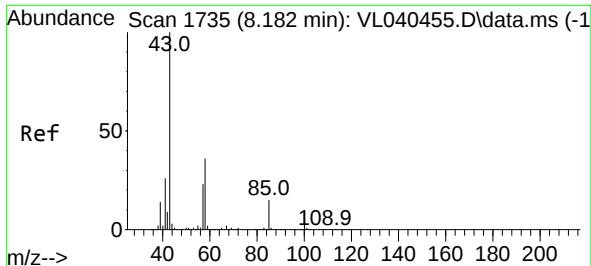
Ion Ratio Lower Upper

57 100

41 72.5 25.5 38.3#

56 61.0 25.1 37.7#





#50

4-Methyl-2-Pentanone

Concen: 0.187 ppbv

RT: 8.189 min Scan# 1

Delta R.T. -0.003 min

Lab File: VL040532.D

Acq: 14 Jul 2023 18:12

Instrument :

MSVOA_L

ClientSampleId :

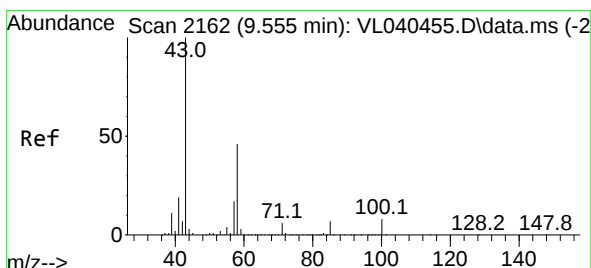
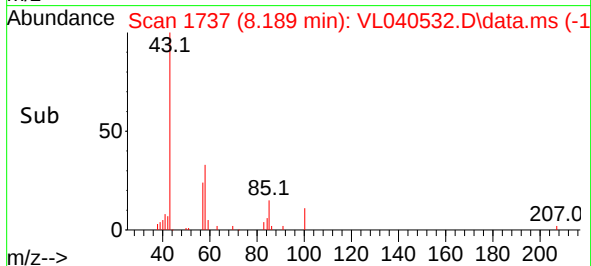
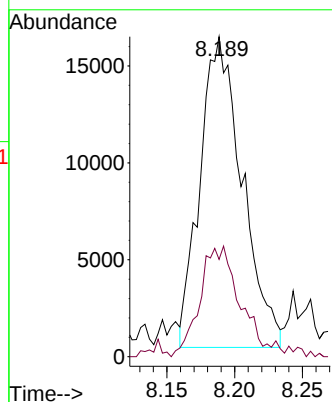
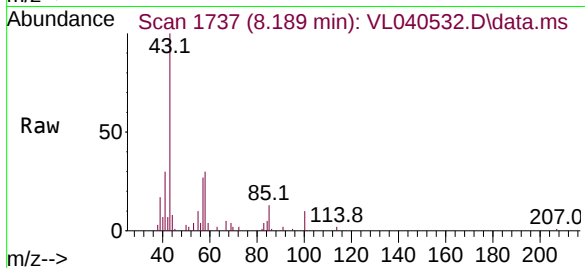
IA1DUP

Tgt Ion: 43 Resp: 34656

Ion Ratio Lower Upper

43 100

58 36.7 30.2 45.2



#51

2-Hexanone

Concen: 0.541 ppbv

RT: 9.552 min Scan# 2161

Delta R.T. -0.009 min

Lab File: VL040532.D

Acq: 14 Jul 2023 18:12

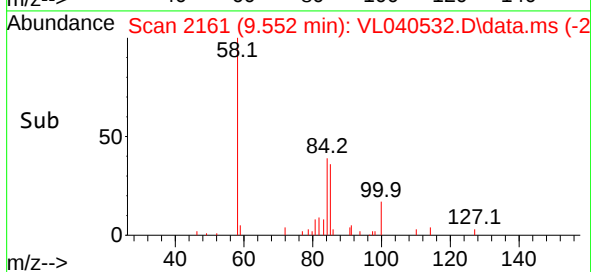
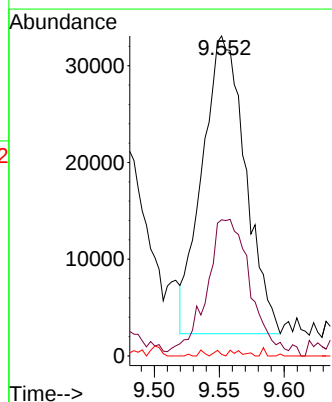
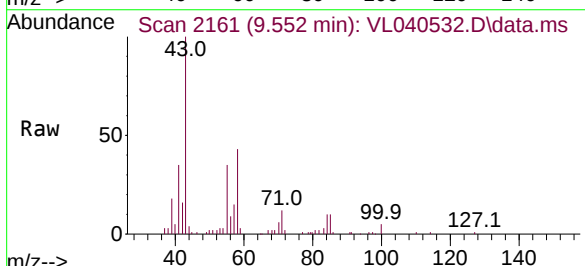
Tgt Ion: 43 Resp: 71018

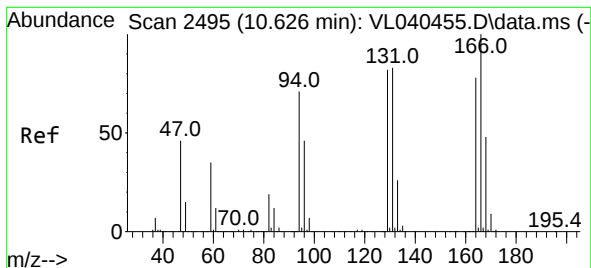
Ion Ratio Lower Upper

43 100

58 47.3 39.7 59.5

98 0.9 0.3 0.5#





#52

Tetrachloroethene

Concen: 5.444 ppbv

RT: 10.623 min Scan# 2495

Delta R.T. -0.003 min

Lab File: VL040532.D

Acq: 14 Jul 2023 18:12

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion:164 Resp: 366503

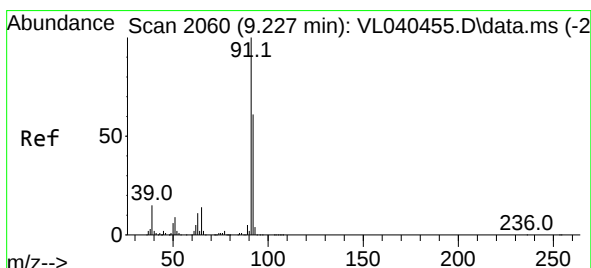
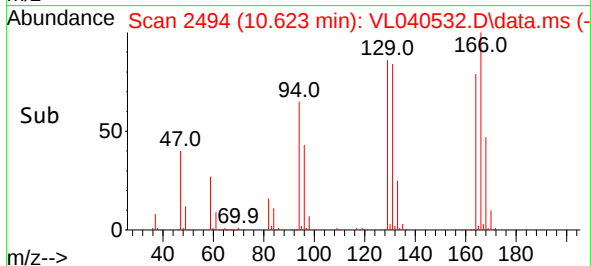
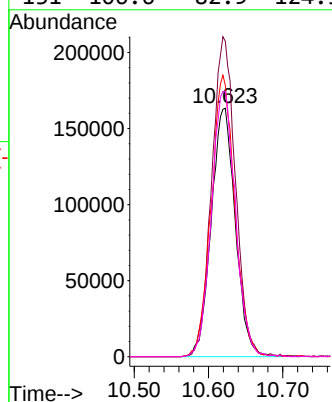
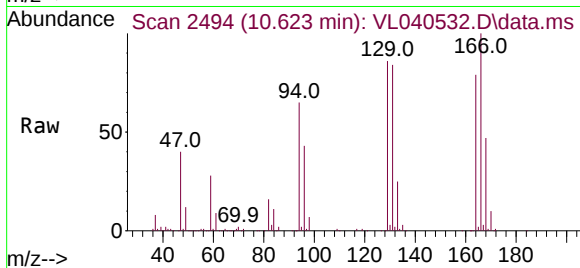
Ion Ratio Lower Upper

164 100

166 126.9 103.9 155.9

129 109.2 84.6 126.8

131 106.6 82.9 124.3



#53

Toluene

Concen: 2.878 ppbv

RT: 9.224 min Scan# 2059

Delta R.T. -0.006 min

Lab File: VL040532.D

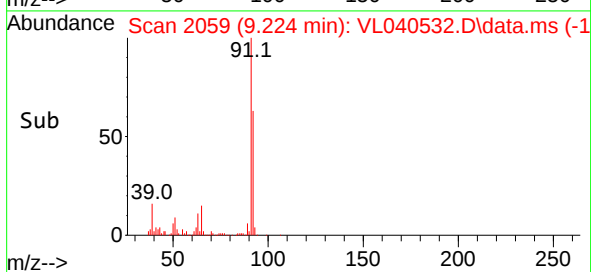
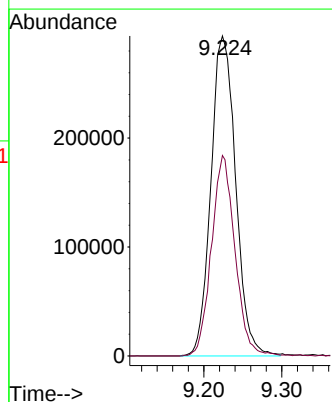
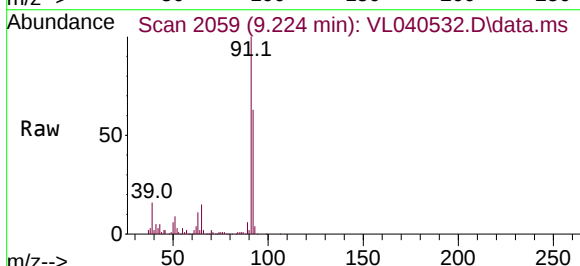
Acq: 14 Jul 2023 18:12

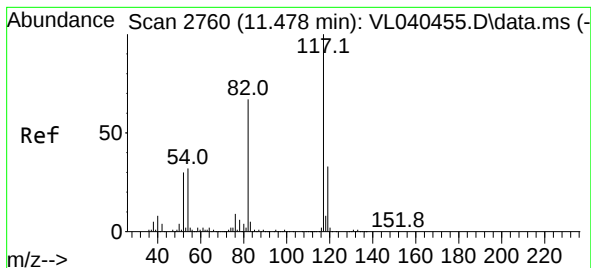
Tgt Ion: 91 Resp: 649893

Ion Ratio Lower Upper

91 100

92 59.7 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: VL040532.D

Acq: 14 Jul 2023 18:12

Instrument :

MSVOA_1

ClientSampleId :

IA1DUP

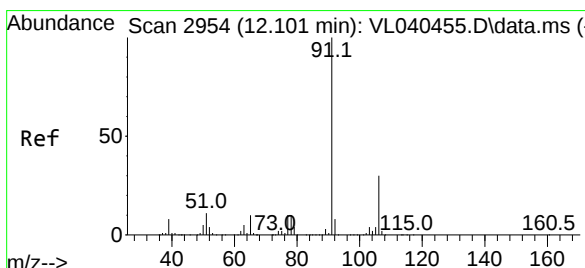
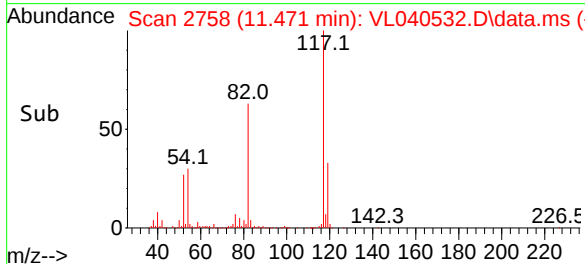
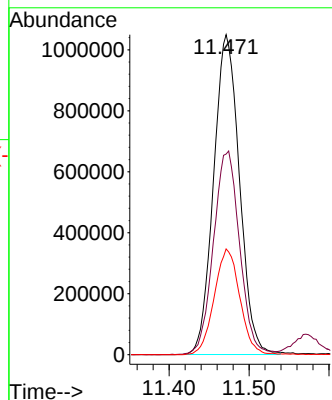
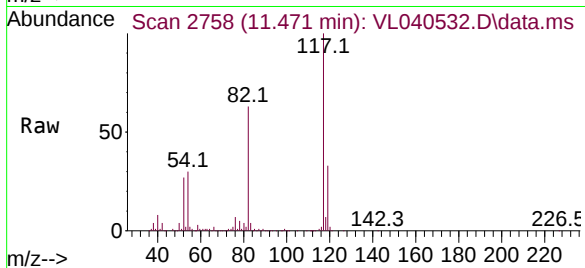
Tgt Ion:117 Resp: 2356023

Ion Ratio Lower Upper

117 100

82 64.6 50.2 75.4

119 32.9 26.9 40.3



#58

Ethyl Benzene

Concen: 14.101 ppbv

RT: 12.095 min Scan# 2952

Delta R.T. -0.006 min

Lab File: VL040532.D

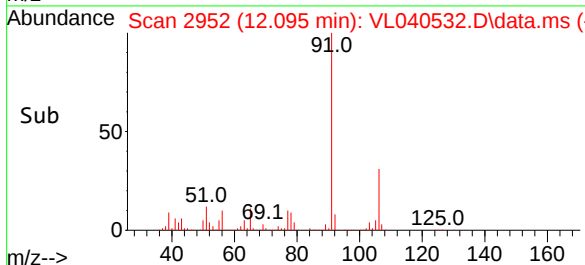
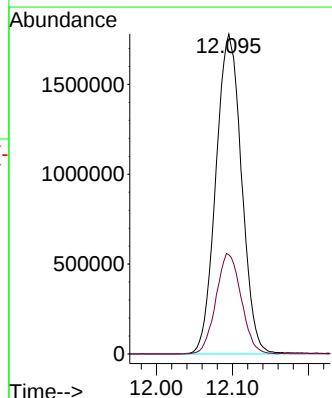
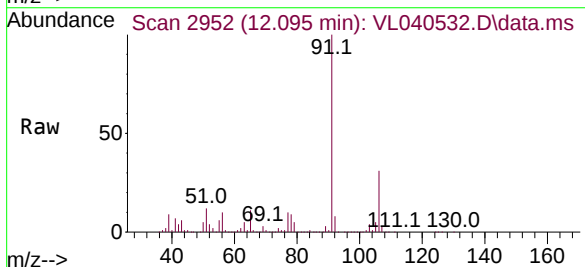
Acq: 14 Jul 2023 18:12

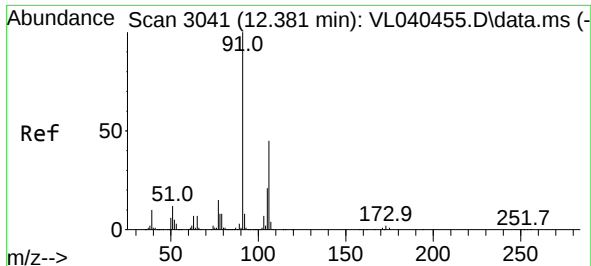
Tgt Ion: 91 Resp: 4169257

Ion Ratio Lower Upper

91 100

106 31.0 25.4 38.0





#59

m/p-Xylene

Concen: 56.316 ppbv

RT: 12.356 min Scan# 3041

Delta R.T. -0.029 min

Lab File: VL040532.D

Acq: 14 Jul 2023 18:12

Instrument :

MSVOA_L

ClientSampleId :

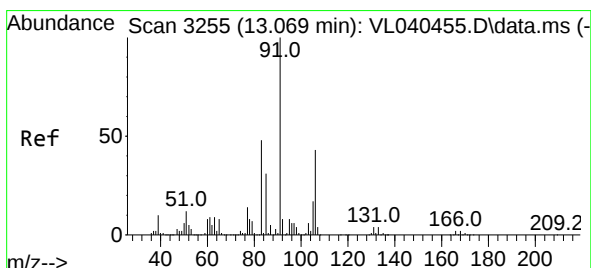
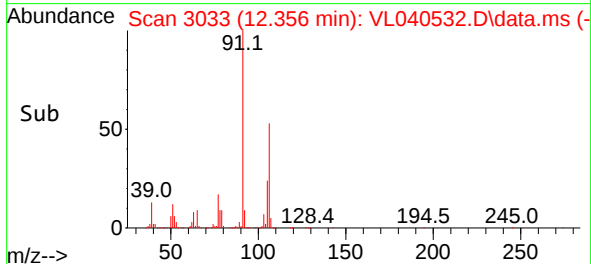
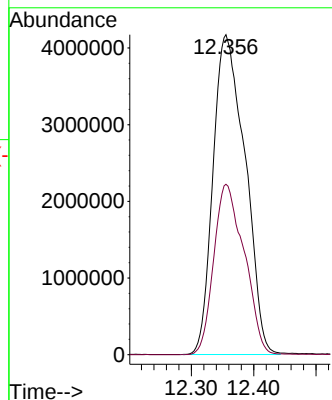
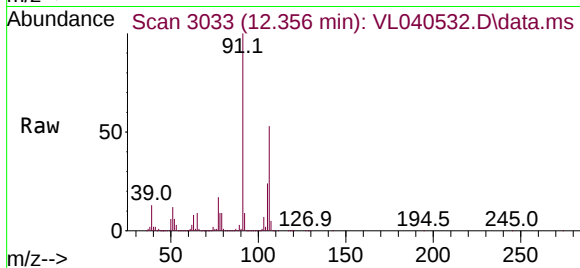
IA1DUP

Tgt Ion: 91 Resp:14861414

Ion Ratio Lower Upper

91 100

106 51.0 35.9 53.9



#60

o-Xylene

Concen: 40.239 ppbv

RT: 13.069 min Scan# 3255

Delta R.T. 0.000 min

Lab File: VL040532.D

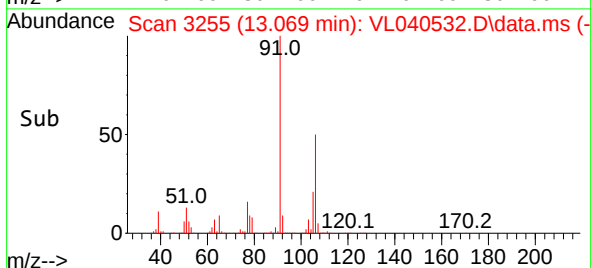
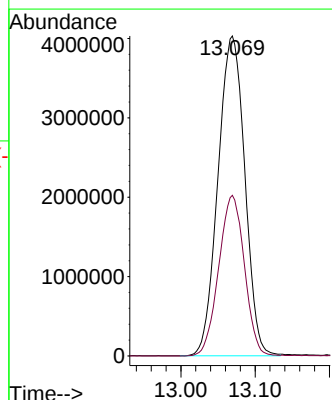
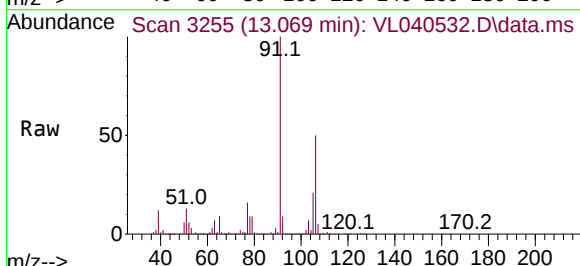
Acq: 14 Jul 2023 18:12

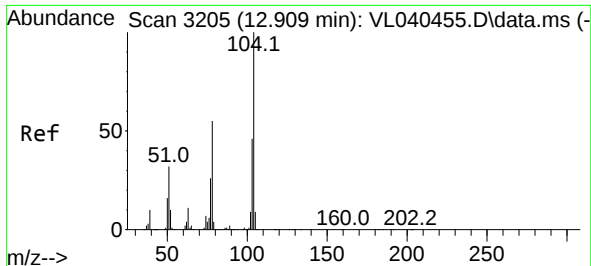
Tgt Ion: 91 Resp:10115841

Ion Ratio Lower Upper

91 100

106 48.4 22.7 68.0

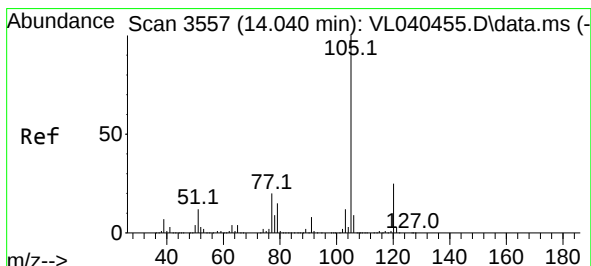
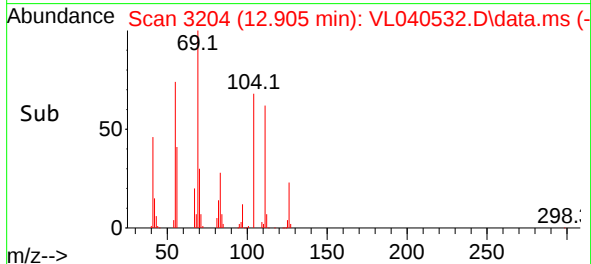
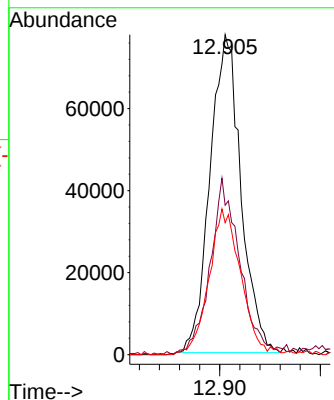
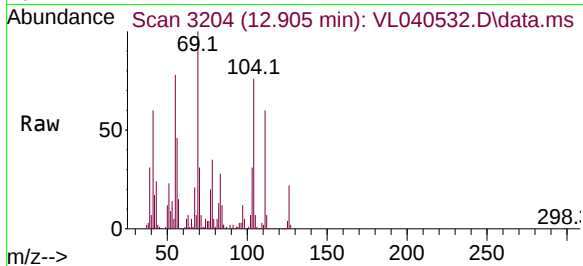




#61
Styrene
Concen: 1.426 ppbv
RT: 12.905 min Scan# 31
Delta R.T. -0.006 min
Lab File: VL040532.D
Acq: 14 Jul 2023 18:12

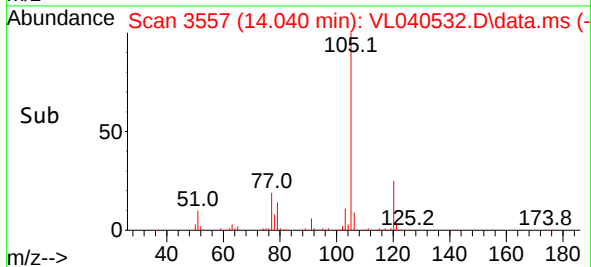
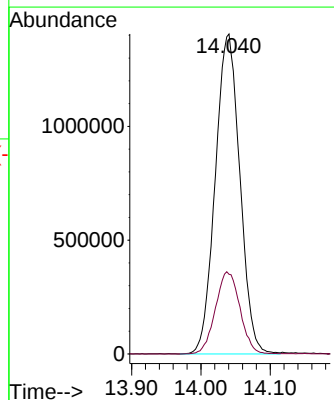
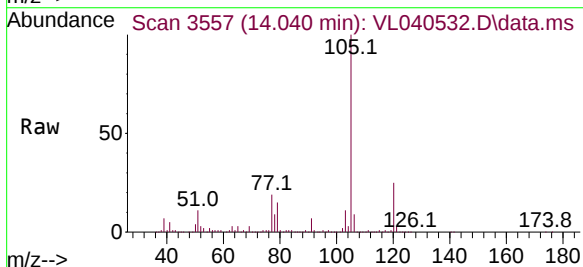
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

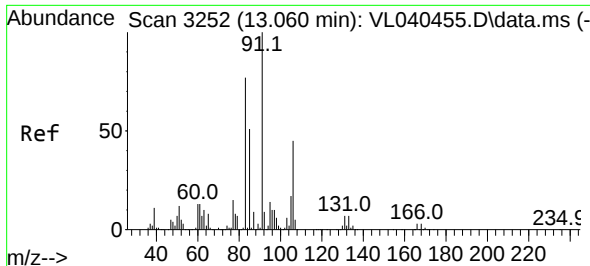
Tgt Ion:104 Resp: 165373
Ion Ratio Lower Upper
104 100
78 53.0 40.1 60.1
103 48.1 37.0 55.4



#62
Isopropylbenzene
Concen: 9.200 ppbv
RT: 14.040 min Scan# 3557
Delta R.T. 0.000 min
Lab File: VL040532.D
Acq: 14 Jul 2023 18:12

Tgt Ion:105 Resp: 3466646
Ion Ratio Lower Upper
105 100
120 25.7 20.8 31.2

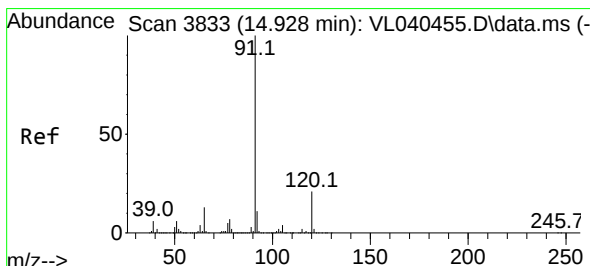
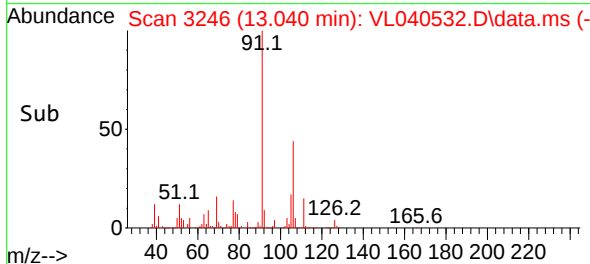
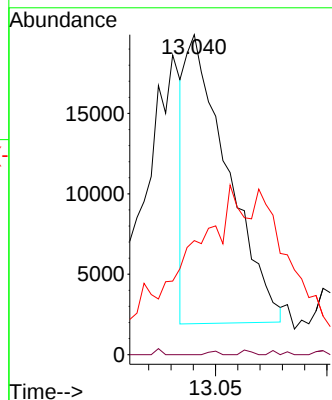
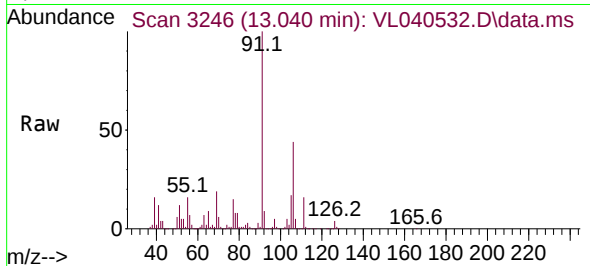




#63
1,1,2,2-Tetrachloroethane
Concen: 0.134 ppbv
RT: 13.040 min Scan# 31
Delta R.T. -0.019 min
Lab File: VL040532.D
Acq: 14 Jul 2023 18:12

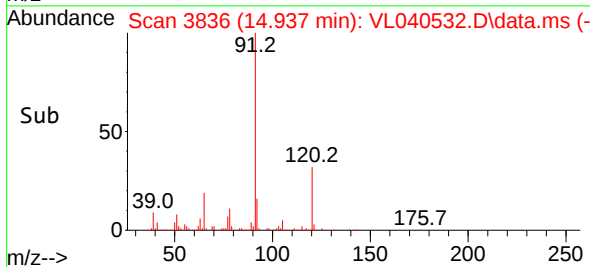
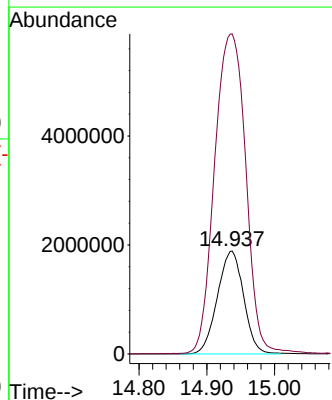
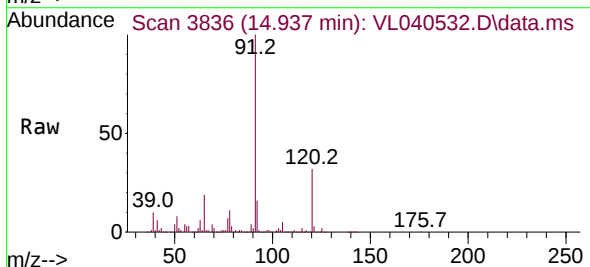
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

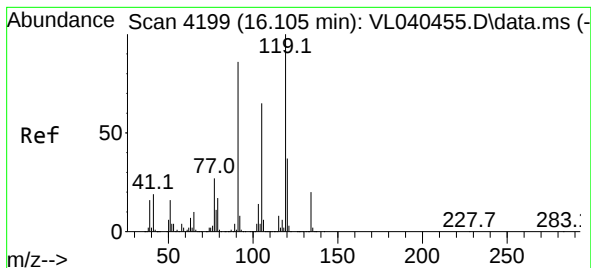
Tgt Ion: 83 Resp: 23666
Ion Ratio Lower Upper
83 100
131 1.1 4.6 13.8#
85 0.0 32.8 98.3#



#64
n-propylbenzene
Concen: 52.021 ppbv
RT: 14.937 min Scan# 3836
Delta R.T. 0.006 min
Lab File: VL040532.D
Acq: 14 Jul 2023 18:12

Tgt Ion: 120 Resp: 5071333
Ion Ratio Lower Upper
120 100
91 370.9 374.3 561.5#

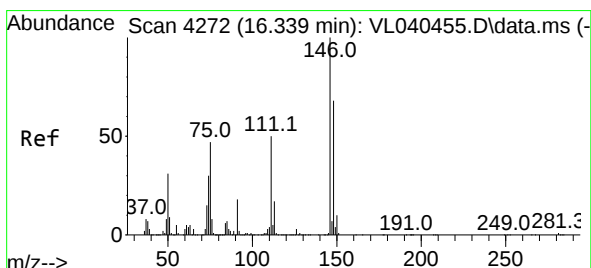
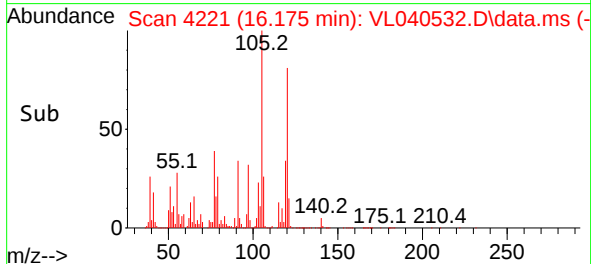
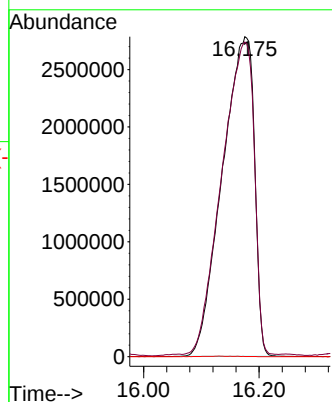
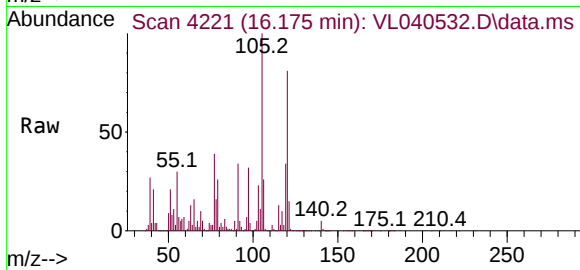




#65
tert-Butylbenzene
Concen: 32.160 ppbv
RT: 16.175 min Scan# 4199
Delta R.T. 0.074 min
Lab File: VL040532.D
Acq: 14 Jul 2023 18:12

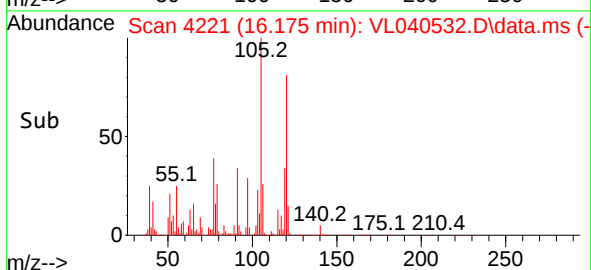
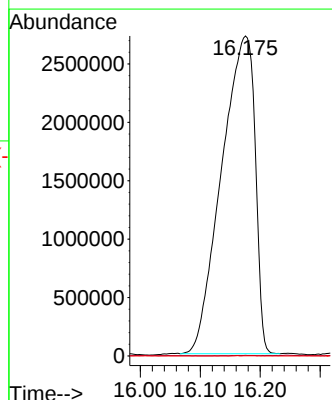
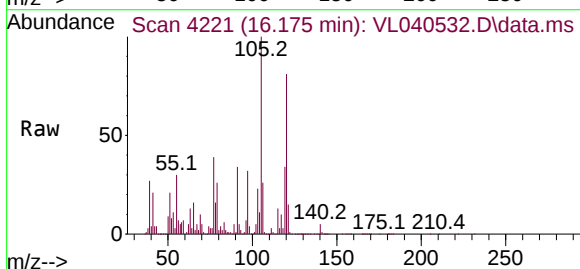
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

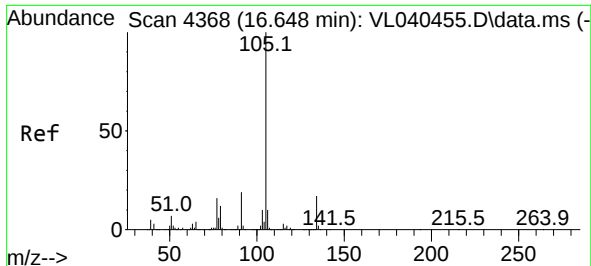
Tgt Ion:119 Resp:10727643
Ion Ratio Lower Upper
119 100
91 100.4 66.1 99.1#
134 0.0 15.7 23.5#



#66
Benzyl Chloride
Concen: 448.646 ppbv
RT: 16.175 min Scan# 4221
Delta R.T. -0.161 min
Lab File: VL040532.D
Acq: 14 Jul 2023 18:12

Tgt Ion: 91 Resp:10586997
Ion Ratio Lower Upper
91 100
126 0.1 15.4 23.2#
128 0.0 4.5 6.7#

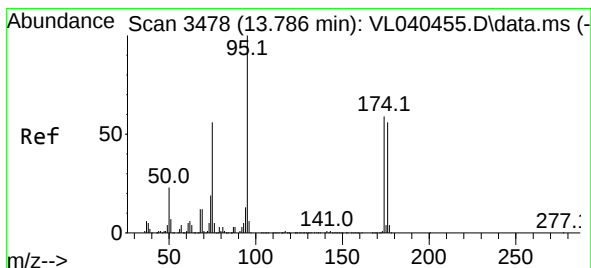
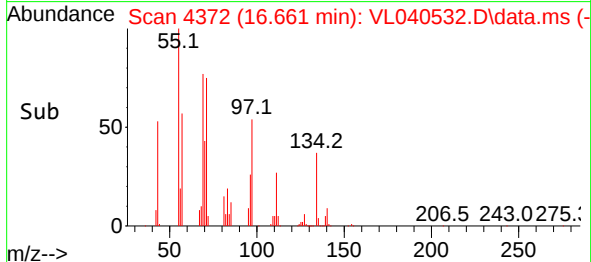
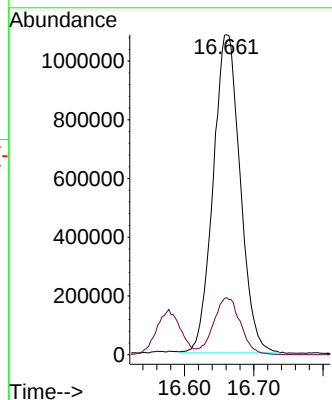
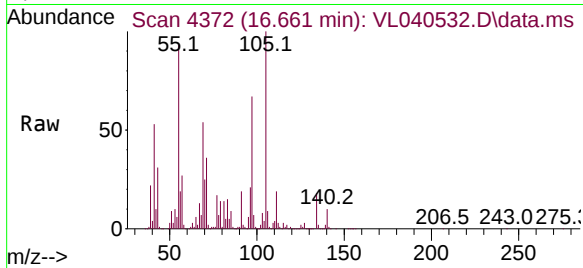




#67
 sec-Butylbenzene
 Concen: 5.999 ppbv
 RT: 16.661 min Scan# 41
 Delta R.T. 0.013 min
 Lab File: VL040532.D
 Acq: 14 Jul 2023 18:12

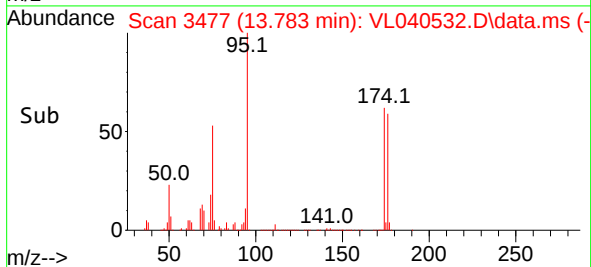
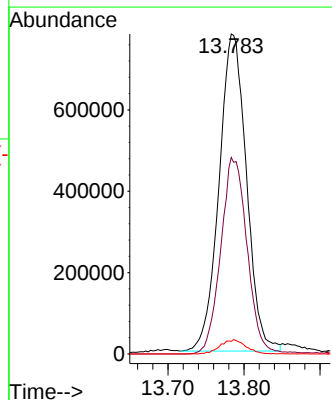
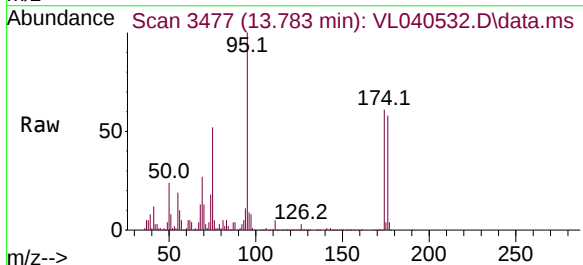
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

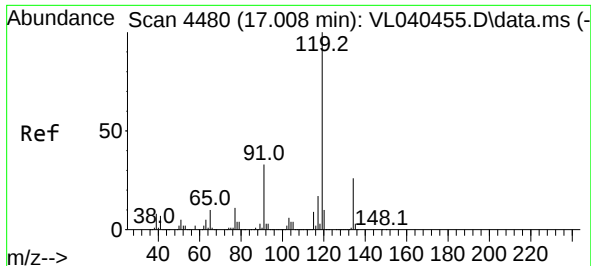
Tgt Ion:105 Resp: 2940057
 Ion Ratio Lower Upper
 105 100
 134 18.0 14.4 21.6



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.456 ppbv
 RT: 13.783 min Scan# 3477
 Delta R.T. 0.000 min
 Lab File: VL040532.D
 Acq: 14 Jul 2023 18:12

Tgt Ion: 95 Resp: 1949665
 Ion Ratio Lower Upper
 95 100
 174 60.3 50.6 75.8
 175 4.3 3.7 5.5

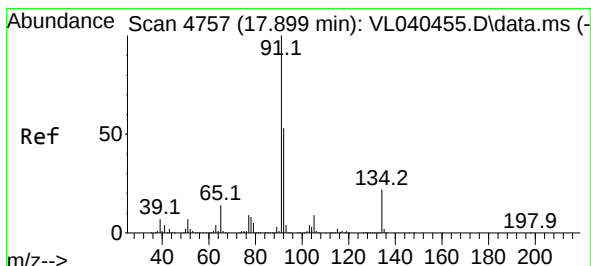
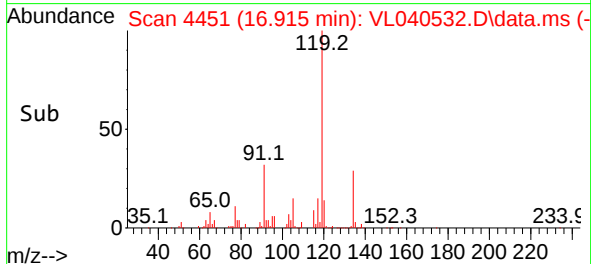
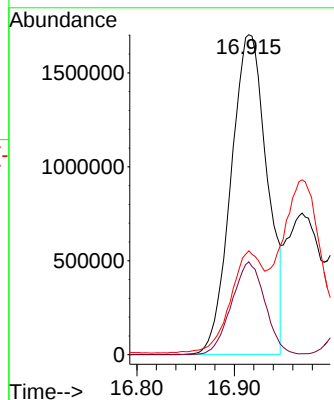
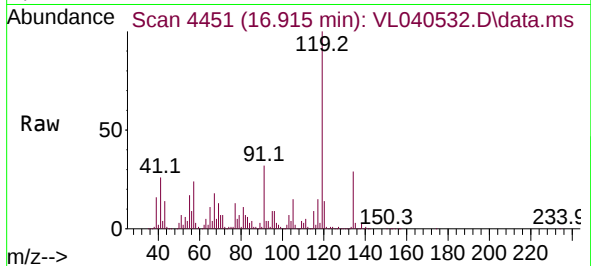




#69
p-Isopropyltoluene
Concen: 10.835 ppbv
RT: 16.915 min Scan# 4480
Delta R.T. -0.090 min
Lab File: VL040532.D
Acq: 14 Jul 2023 18:12

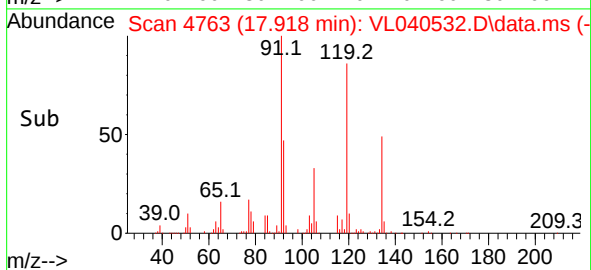
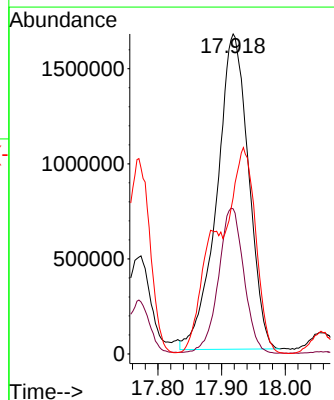
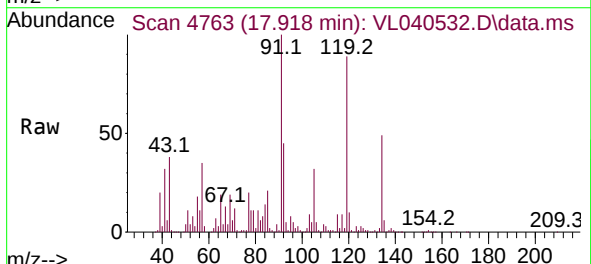
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

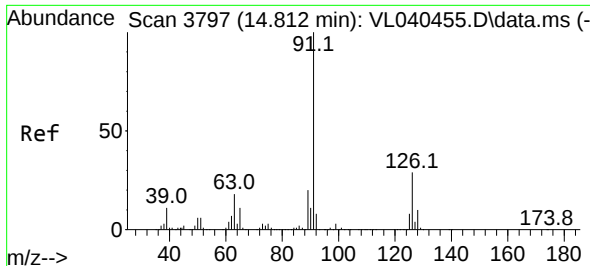
Tgt Ion:119 Resp: 4388428
Ion Ratio Lower Upper
119 100
134 27.0 20.5 30.7
91 28.1 23.8 35.8



#70
n-Butylbenzene
Concen: 12.686 ppbv
RT: 17.918 min Scan# 4763
Delta R.T. 0.023 min
Lab File: VL040532.D
Acq: 14 Jul 2023 18:12

Tgt Ion: 91 Resp: 5729846
Ion Ratio Lower Upper
91 100
92 37.3 43.4 65.0#
134 80.0 18.1 27.1#

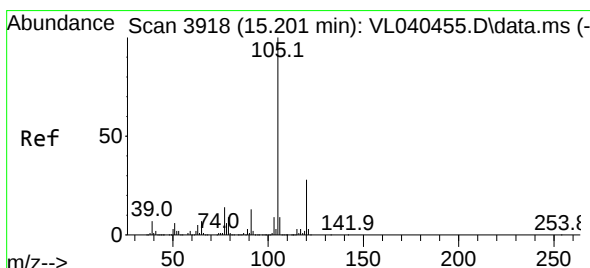
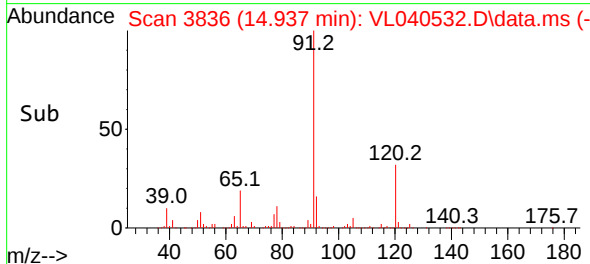
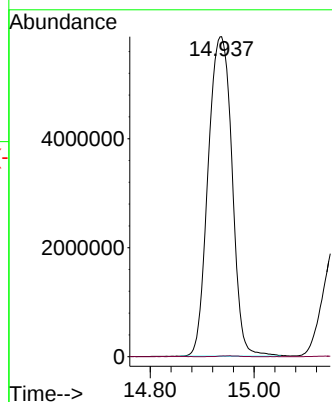
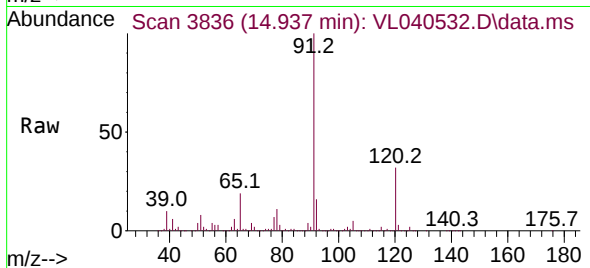




#71
2-Chlorotoluene
Concen: 64.419 ppbv
RT: 14.937 min Scan# 3836
Delta R.T. 0.125 min
Lab File: VL040532.D
Acq: 14 Jul 2023 18:12

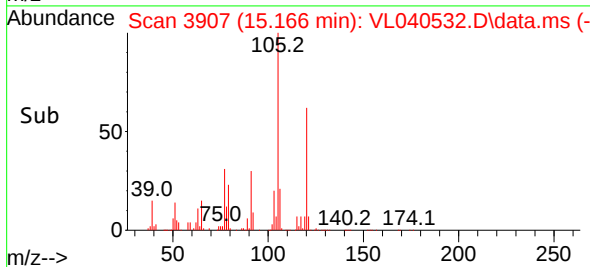
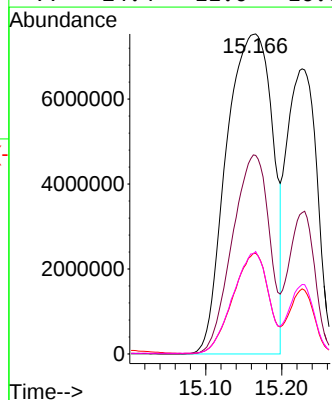
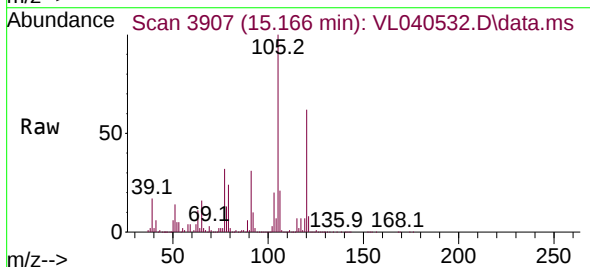
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

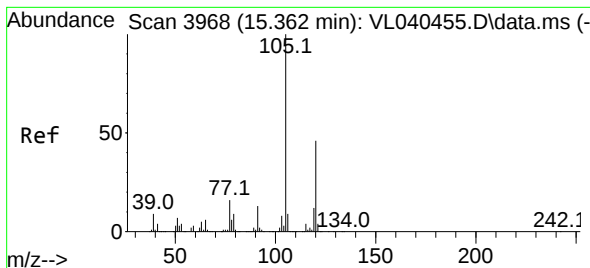
Tgt Ion: 91 Resp:18706422
Ion Ratio Lower Upper
91 100
126 0.2 12.4 49.8#



#72
4-Ethyltoluene
Concen: 107.861 ppbv
RT: 15.166 min Scan# 3907
Delta R.T. -0.039 min
Lab File: VL040532.D
Acq: 14 Jul 2023 18:12

Tgt Ion:105 Resp:31785218
Ion Ratio Lower Upper
105 100
120 50.2 24.6 37.0#
91 24.3 10.7 16.1#
77 24.4 11.0 16.6#





#73

1,3,5-Trimethylbenzene

Concen: 82.374 ppbv

RT: 15.388 min Scan# 3968

Delta R.T. 0.026 min

Lab File: VL040532.D

Acq: 14 Jul 2023 18:12

Instrument :

MSVOA_1

ClientSampleId :

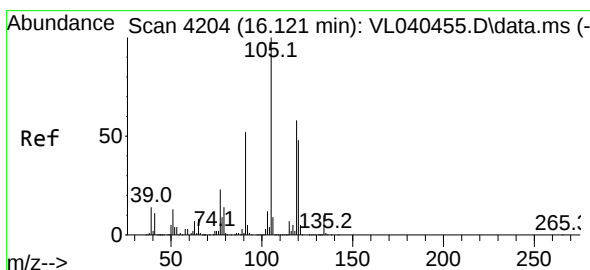
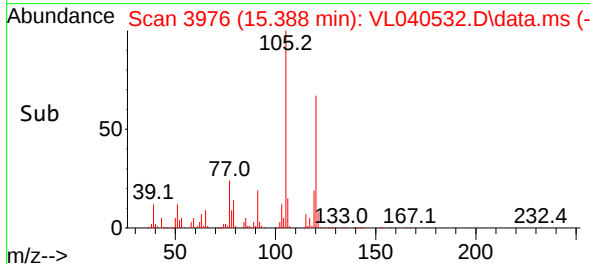
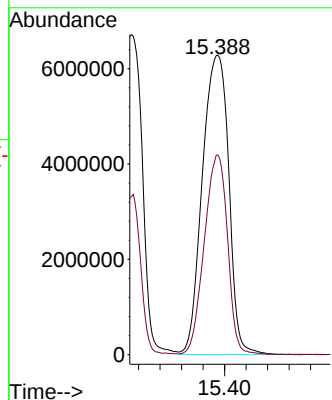
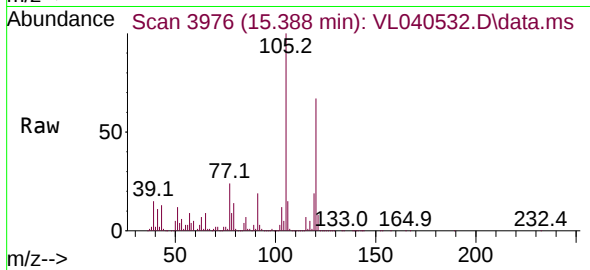
IA1DUP

Tgt Ion:105 Resp:21396800

Ion Ratio Lower Upper

105 100

120 66.6 38.2 57.2#



#74

1,2,4-Trimethylbenzene

Concen: 140.566 ppbv

RT: 16.175 min Scan# 4221

Delta R.T. 0.058 min

Lab File: VL040532.D

Acq: 14 Jul 2023 18:12

Tgt Ion:105 Resp:42570549

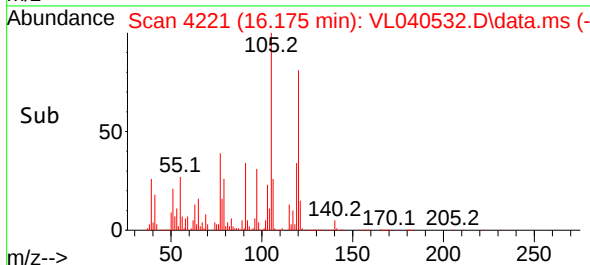
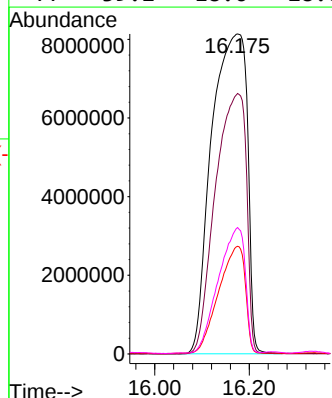
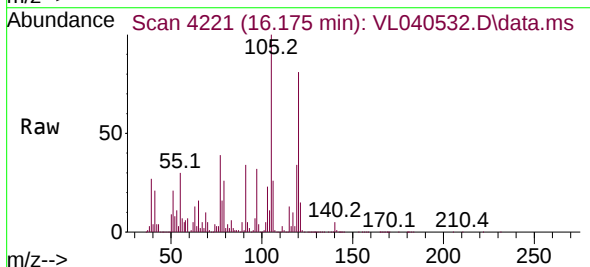
Ion Ratio Lower Upper

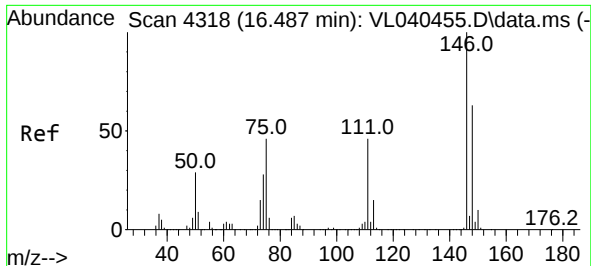
105 100

120 81.5 40.3 60.5#

91 33.5 46.8 70.2#

77 39.2 18.6 28.0#

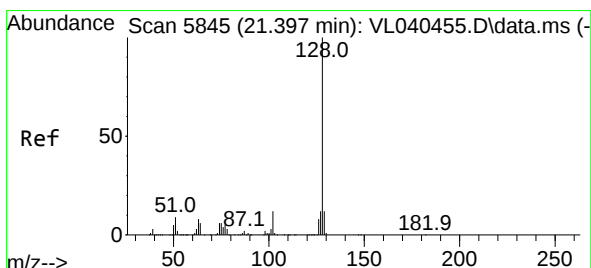
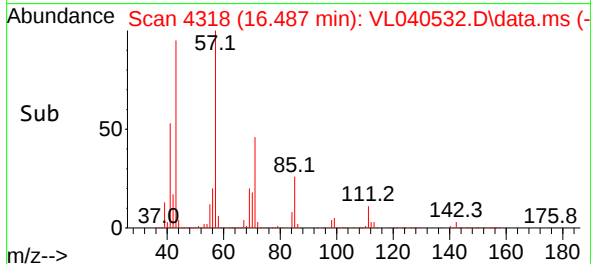
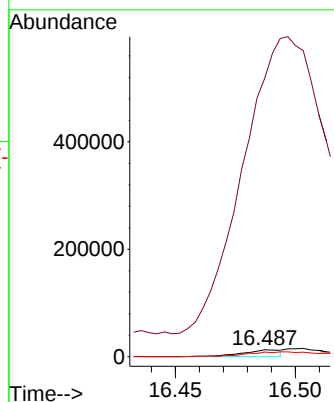
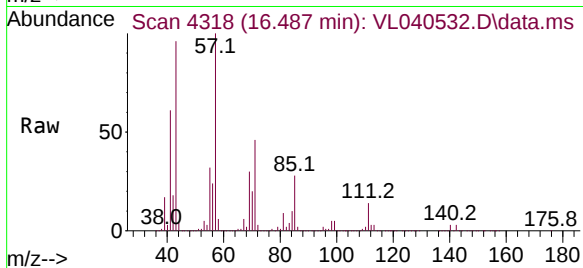




#76
1,4-Dichlorobenzene
Concen: 0.080 ppbv
RT: 16.487 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL040532.D
Acq: 14 Jul 2023 18:12

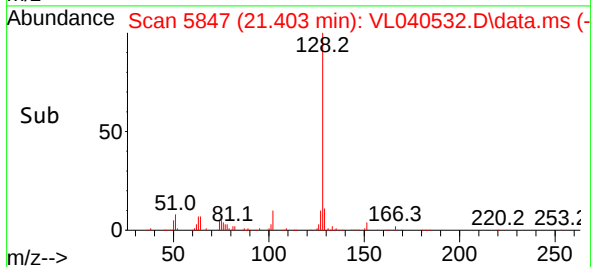
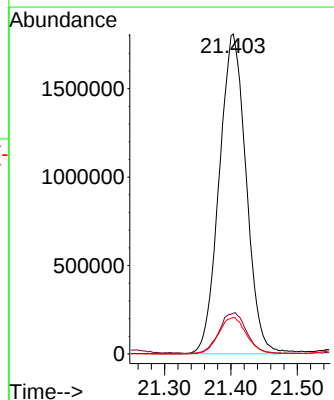
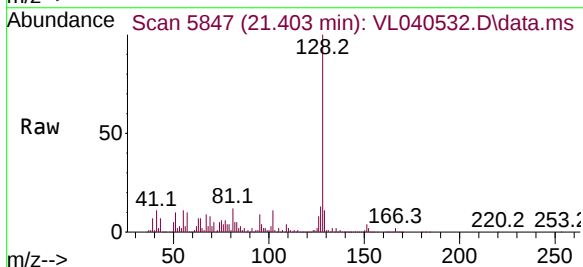
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

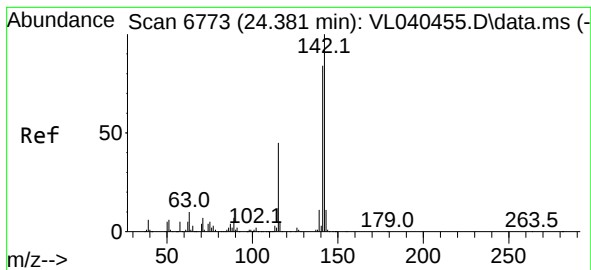
Tgt Ion:146 Resp: 14339
Ion Ratio Lower Upper
146 100
111 0.0 22.8 68.3#
148 0.0 32.6 97.8#



#79
Naphthalene
Concen: 19.833 ppbv
RT: 21.403 min Scan# 5847
Delta R.T. 0.010 min
Lab File: VL040532.D
Acq: 14 Jul 2023 18:12

Tgt Ion:128 Resp: 5081946
Ion Ratio Lower Upper
128 100
127 12.4 10.7 16.1
129 11.5 9.2 13.8





#80

Naphthalene, 2-methyl-

Concen: 0.593 ppbv

RT: 24.374 min Scan# 61

Delta R.T. -0.003 min

Lab File: VL040532.D

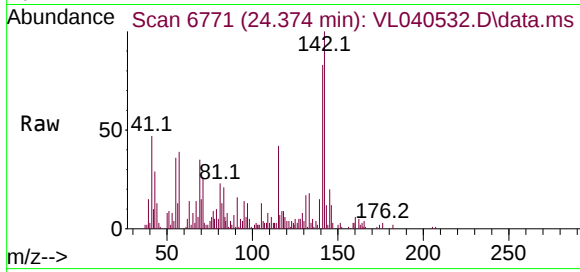
Acq: 14 Jul 2023 18:12

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP



Tgt Ion:142 Resp: 62669

Ion Ratio Lower Upper

142 100

141 78.7 66.7 100.1

115 70.1 33.0 49.6#

