

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080723\
 Data File : VL040599.D
 Acq On : 7 Aug 2023 15:14
 Operator : SY/MD
 Sample : 03907-01DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA-1DL

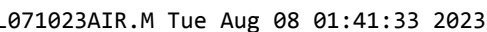
Quant Time: Aug 08 01:41:28 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Jul 10 16:32:00 2023
 Response via : Initial Calibration

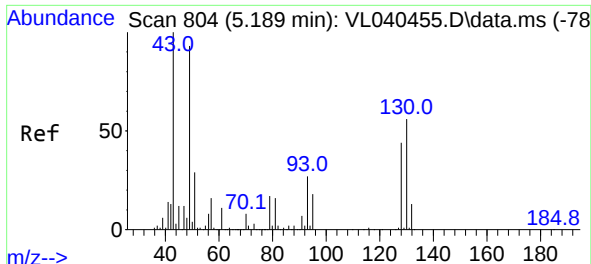
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.198	49	1160268	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	2804492	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.481	117	2484157	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.786	95	2079629	10.578	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 105.800%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.732	85	25984	0.112	ppbv	90
3) Chlorodifluoromethane	2.677	51	15034	0.082	ppbv	92
4) Chloromethane	2.819	50	7704	0.106	ppbv	99
9) Propene	3.018	41	6133	0.097	ppbv	87
13) Ethanol	3.243	45	269986	19.709	ppbv	94
15) Acetone	3.475	43	1004268	7.519	ppbv	98
19) Isopropyl Alcohol	3.587	45	260809	3.402	ppbv #	91
20) Methylene Chloride	3.941	84	572425	10.076	ppbv	94
23) Vinyl Acetate	4.623	43	14353	0.113	ppbv #	47
25) Ethyl Acetate	5.221	43	285727	1.124	ppbv #	81
26) Hexane	5.217	57	372182	3.151	ppbv #	43
34) 2-Butanone	4.799	43	18394	0.133	ppbv #	57
36) Benzene	6.381	78	12116	0.054	ppbv #	88
39) 1,2-Dichloropropane	6.661	63	725988	8.357	ppbv #	26
41) Tetrahydrofuran	5.221	42	155216	1.919	ppbv #	46
50) 4-Methyl-2-Pentanone	8.211	43	50448	0.251	ppbv	100
53) Toluene	9.233	91	448291	1.829	ppbv	99
58) Ethyl Benzene	12.111	91	15210	0.049	ppbv	99
60) o-Xylene	13.076	91	24909	0.094	ppbv #	36

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

Quant Time: Aug 08 01:41:28 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
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

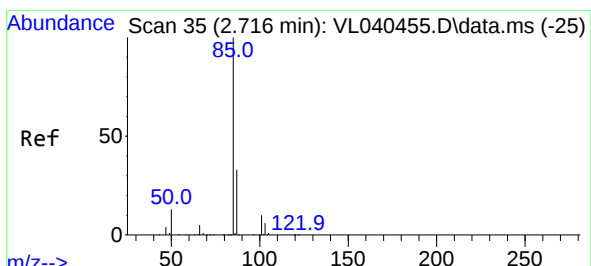
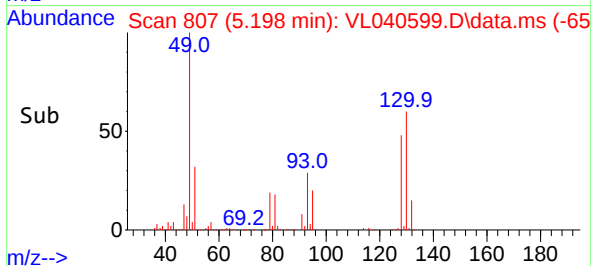
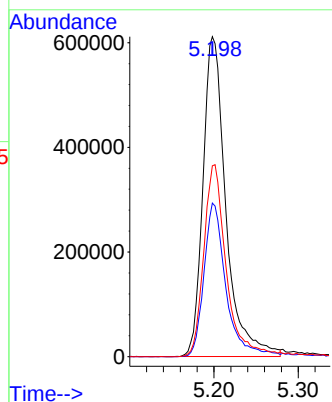
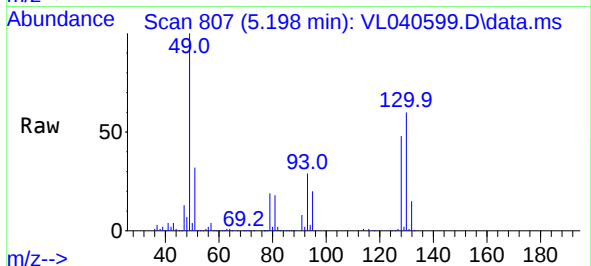




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.198 min Scan# 80
Delta R.T. -0.004 min
Lab File: VL040599.D
Acq: 7 Aug 2023 15:14

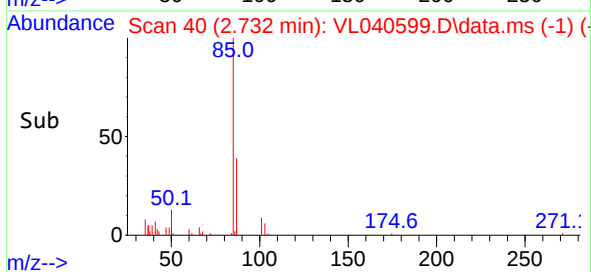
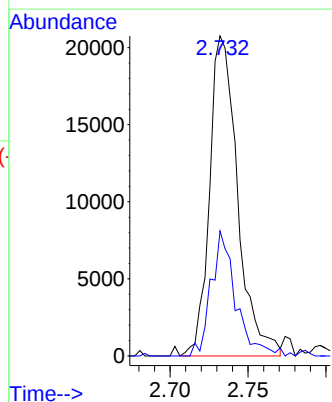
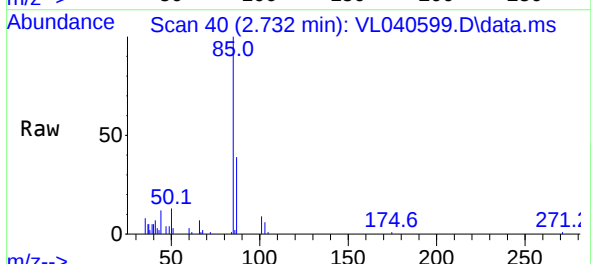
Instrument :
MSVOA_L
ClientSampleId :
OA-1DL

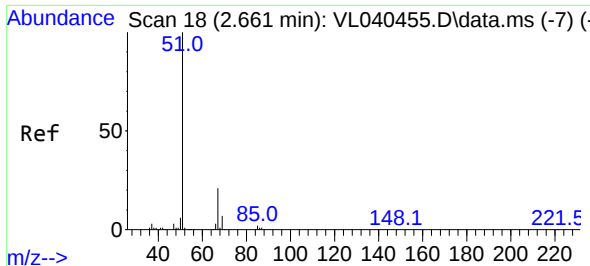
Tgt Ion: 49 Resp: 1160268
Ion Ratio Lower Upper
49 100
128 47.8 25.1 75.4
130 59.9 31.6 94.7



#2
Dichlorodifluoromethane
Concen: 0.112 ppbv
RT: 2.732 min Scan# 40
Delta R.T. -0.007 min
Lab File: VL040599.D
Acq: 7 Aug 2023 15:14

Tgt Ion: 85 Resp: 25984
Ion Ratio Lower Upper
85 100
87 39.1 26.8 40.2

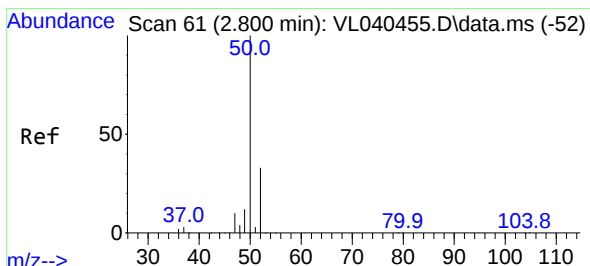
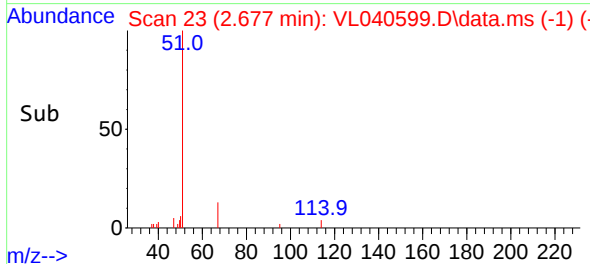
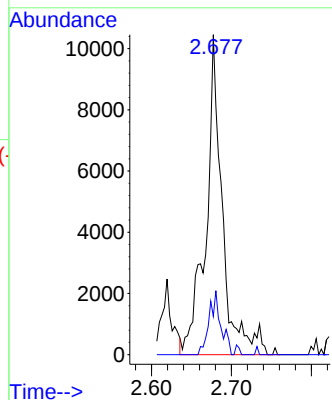
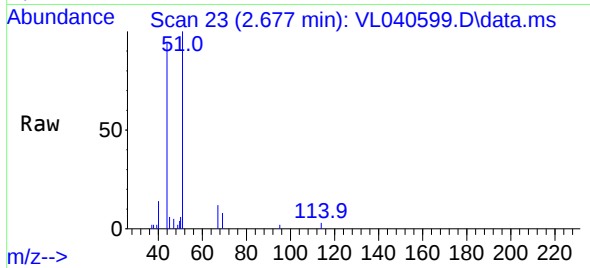




#3
Chlorodifluoromethane
Concen: 0.082 ppbv
RT: 2.677 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL040599.D
Acq: 7 Aug 2023 15:14

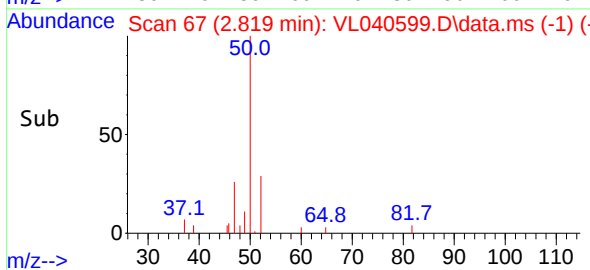
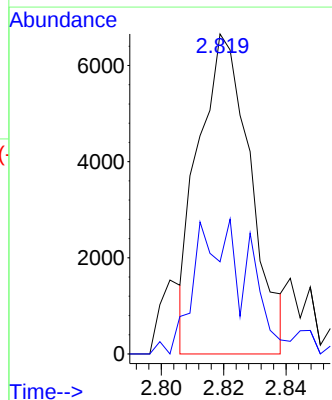
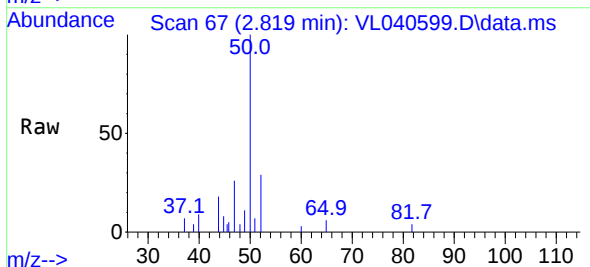
Instrument :
MSVOA_L
ClientSampleId :
OA-1DL

Tgt Ion: 51 Resp: 15034
Ion Ratio Lower Upper
51 100
67 14.7 14.6 21.8

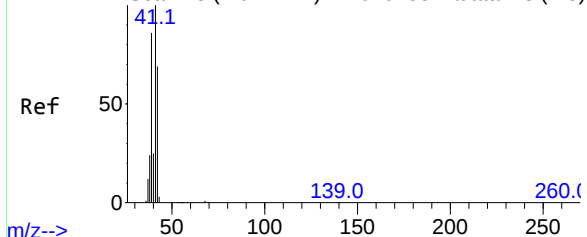


#4
Chloromethane
Concen: 0.106 ppbv
RT: 2.819 min Scan# 67
Delta R.T. -0.003 min
Lab File: VL040599.D
Acq: 7 Aug 2023 15:14

Tgt Ion: 50 Resp: 7704
Ion Ratio Lower Upper
50 100
52 30.0 24.4 36.6



Abundance Scan 23 (2.677 min): VL040455.D\data.ms (-15)



#9

Propene

Concen: 0.097 ppbv

RT: 3.018 min Scan# 11

Delta R.T. 0.315 min

Lab File: VL040599.D

Acq: 7 Aug 2023 15:14

Instrument :

MSVOA_L

ClientSampleId :

OA-1DL

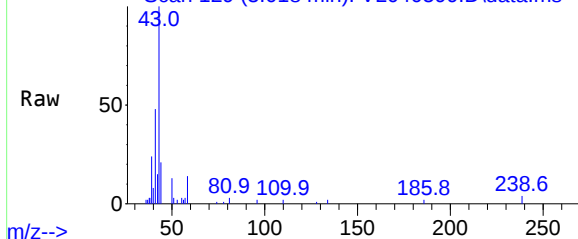
Tgt Ion: 41 Resp: 6133

Ion Ratio Lower Upper

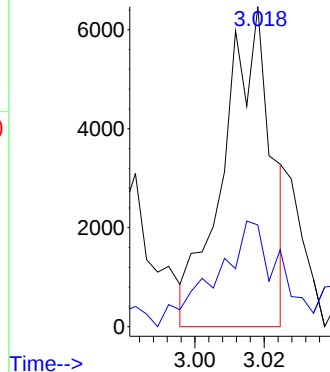
41 100

42 58.1 55.0 82.6

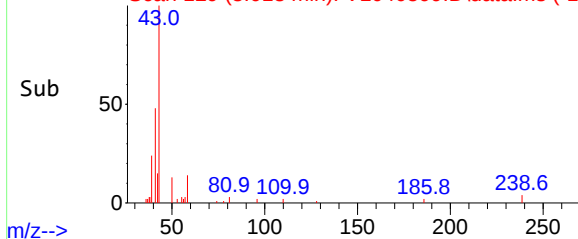
Abundance Scan 129 (3.018 min): VL040599.D\data.ms



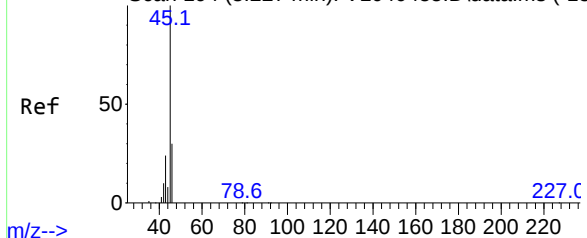
Abundance



Abundance Scan 129 (3.018 min): VL040599.D\data.ms (-1)



Abundance Scan 194 (3.227 min): VL040455.D\data.ms (-18)



#13

Ethanol

Concen: 19.709 ppbv

RT: 3.243 min Scan# 199

Delta R.T. -0.003 min

Lab File: VL040599.D

Acq: 7 Aug 2023 15:14

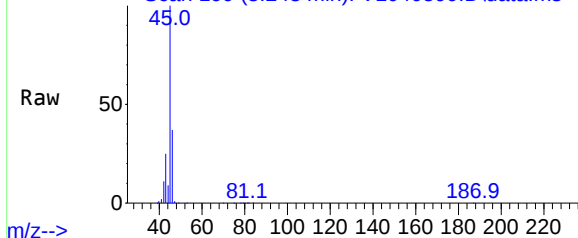
Tgt Ion: 45 Resp: 269986

Ion Ratio Lower Upper

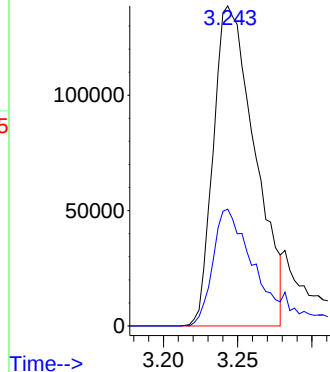
45 100

46 42.0 15.3 61.1

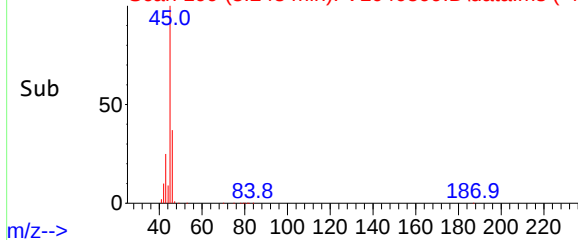
Abundance Scan 199 (3.243 min): VL040599.D\data.ms

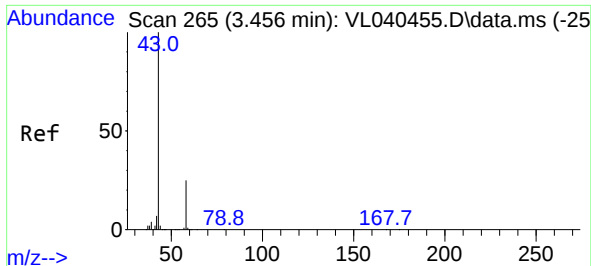


Abundance



Abundance Scan 199 (3.243 min): VL040599.D\data.ms (-45)

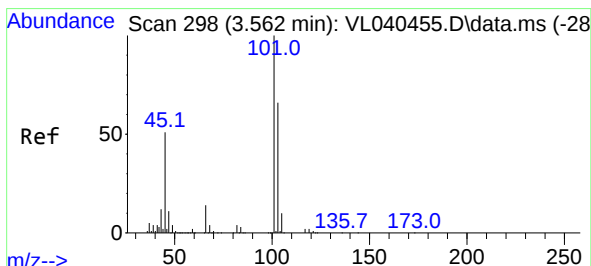
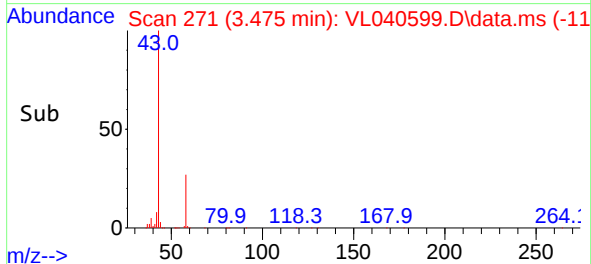
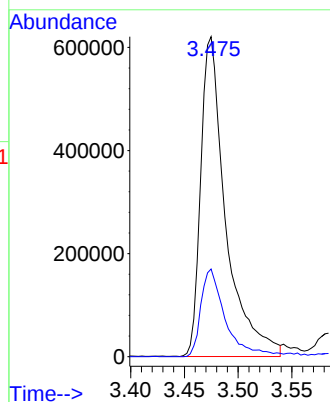
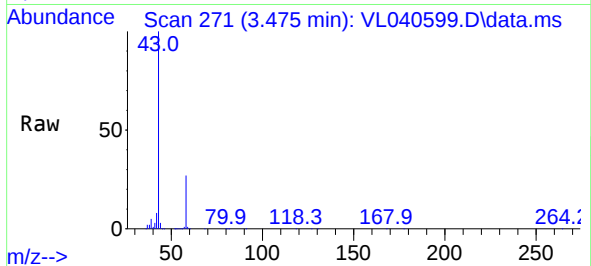




#15
Acetone
Concen: 7.519 ppbv
RT: 3.475 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL040599.D
Acq: 7 Aug 2023 15:14

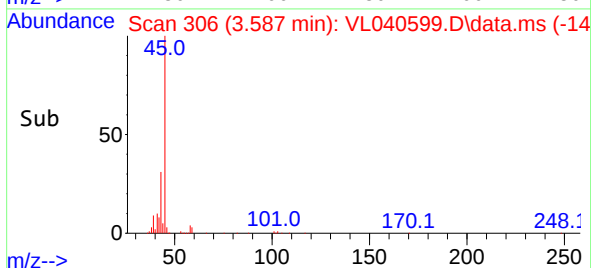
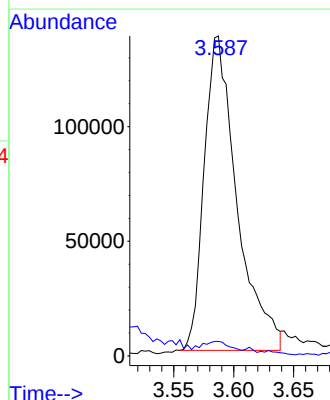
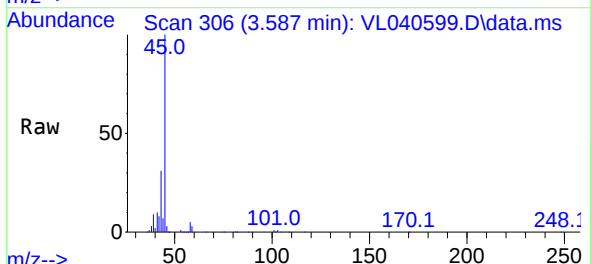
Instrument :
MSVOA_L
ClientSampleId :
OA-1DL

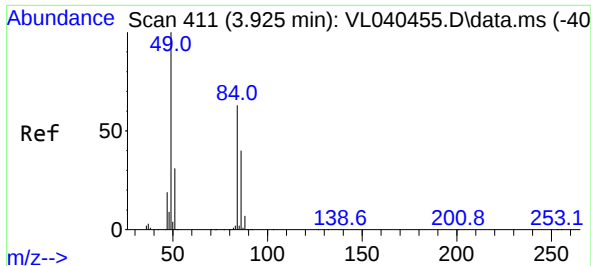
Tgt Ion: 43 Resp: 1004268
Ion Ratio Lower Upper
43 100
58 27.6 22.9 34.3



#19
Isopropyl Alcohol
Concen: 3.402 ppbv
RT: 3.587 min Scan# 306
Delta R.T. 0.006 min
Lab File: VL040599.D
Acq: 7 Aug 2023 15:14

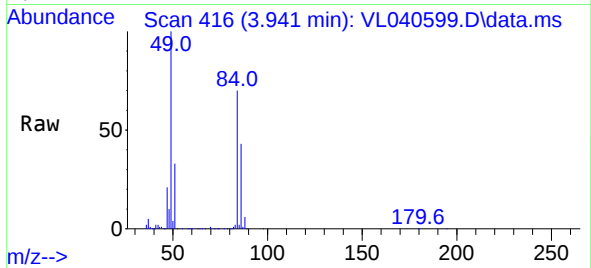
Tgt Ion: 45 Resp: 260809
Ion Ratio Lower Upper
45 100
58 4.8 1.1 1.7#



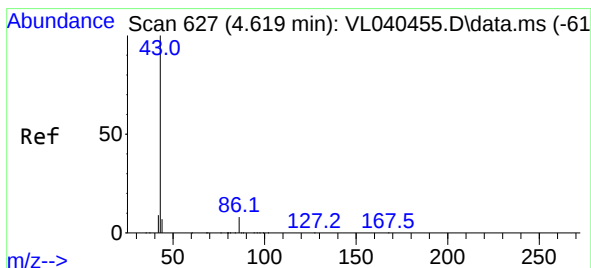
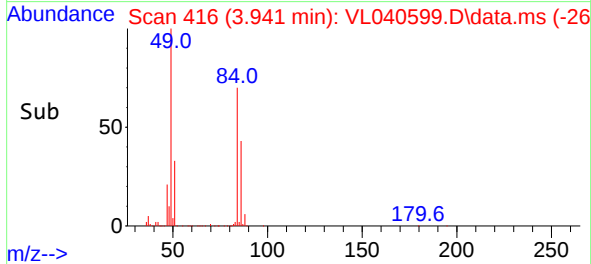
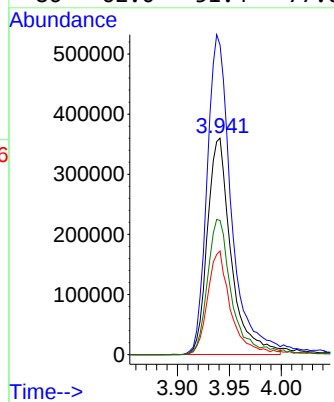


#20
Methylene Chloride
Concen: 10.076 ppbv
RT: 3.941 min Scan# 411
Delta R.T. -0.000 min
Lab File: VL040599.D
Acq: 7 Aug 2023 15:14

Instrument :
MSVOA_L
ClientSampleId :
OA-1DL

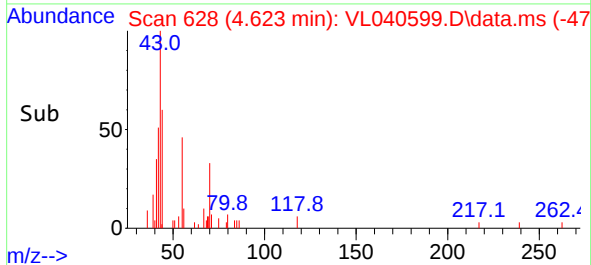
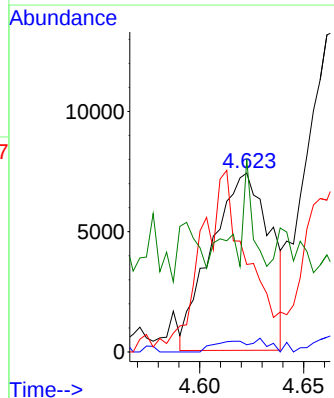
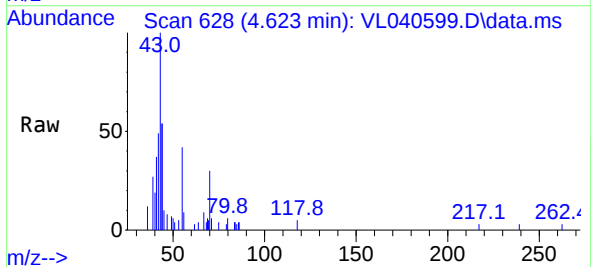


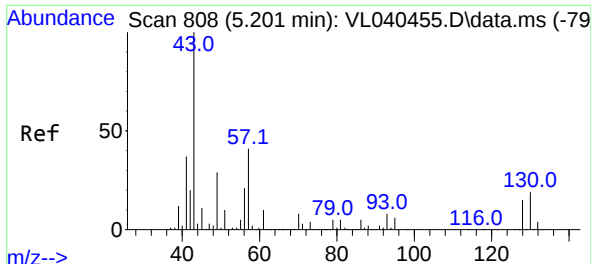
Tgt Ion: 84 Resp: 572425
Ion Ratio Lower Upper
84 100
49 143.0 123.4 185.2
51 47.9 38.3 57.5
86 62.0 51.4 77.0



#23
Vinyl Acetate
Concen: 0.113 ppbv
RT: 4.623 min Scan# 628
Delta R.T. -0.013 min
Lab File: VL040599.D
Acq: 7 Aug 2023 15:14

Tgt Ion: 43 Resp: 14353
Ion Ratio Lower Upper
43 100
86 4.5 5.6 8.4#
42 29.2 7.4 11.2#
44 42.2 4.4 6.6#

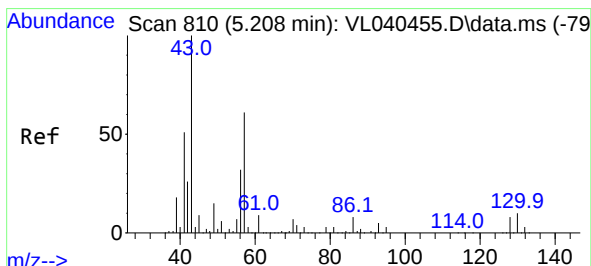
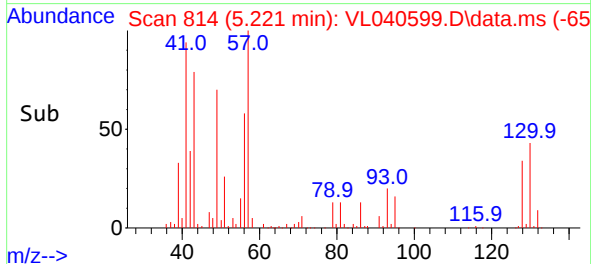
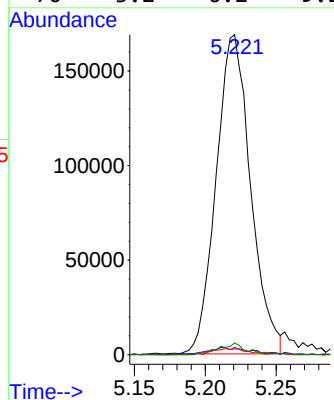
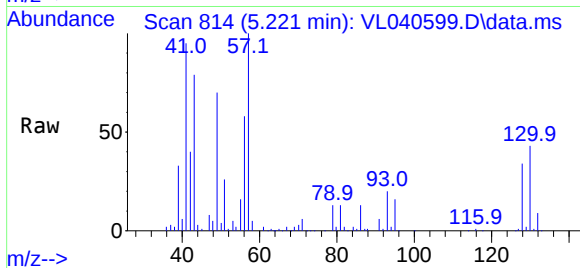




#25
Ethyl Acetate
Concen: 1.124 ppbv
RT: 5.221 min Scan# 814
Delta R.T. 0.010 min
Lab File: VL040599.D
Acq: 7 Aug 2023 15:14

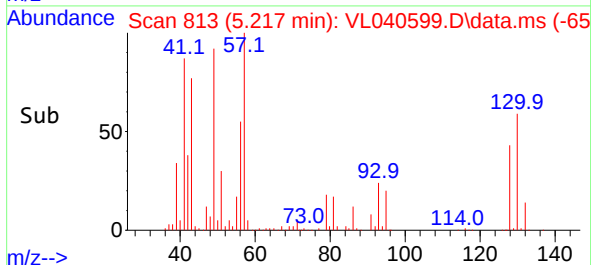
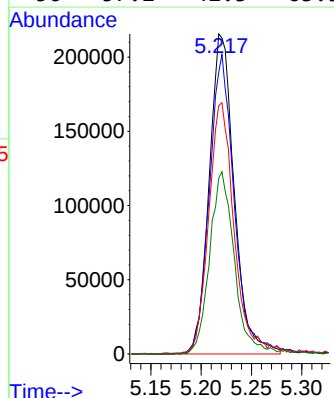
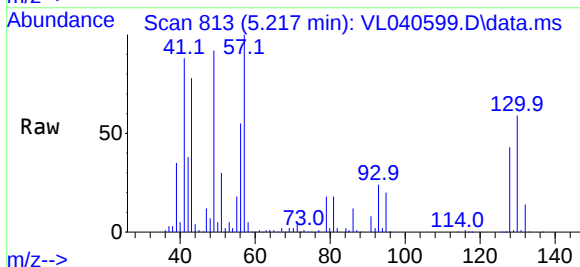
Instrument :
MSVOA_1
ClientSampleId :
OA-1DL

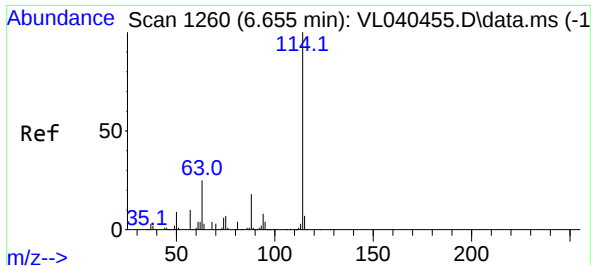
Tgt Ion: 43 Resp: 285727
Ion Ratio Lower Upper
43 100
45 3.0 8.2 12.4#
61 2.1 8.3 12.5#
70 3.2 6.2 9.2#



#26
Hexane
Concen: 3.151 ppbv
RT: 5.217 min Scan# 813
Delta R.T. -0.003 min
Lab File: VL040599.D
Acq: 7 Aug 2023 15:14

Tgt Ion: 57 Resp: 372182
Ion Ratio Lower Upper
57 100
41 94.6 69.5 104.3
43 80.1 177.1 265.7#
56 57.2 42.3 63.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.661 min Scan# 114

Delta R.T. -0.003 min

Lab File: VL040599.D

Acq: 7 Aug 2023 15:14

Instrument :

MSVOA_L

ClientSampleId :

OA-1DL

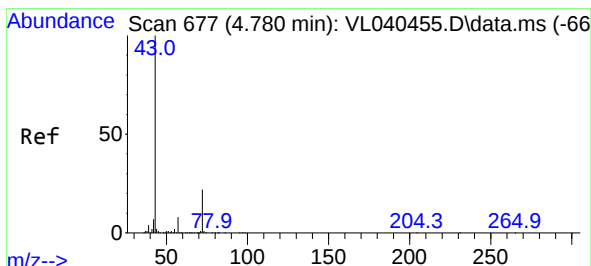
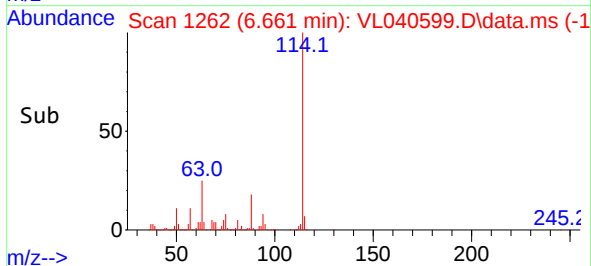
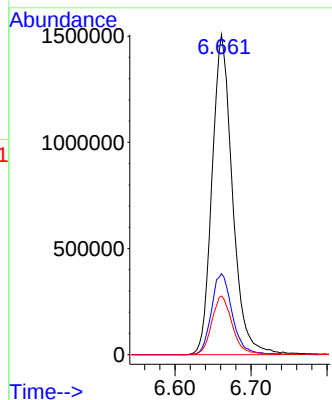
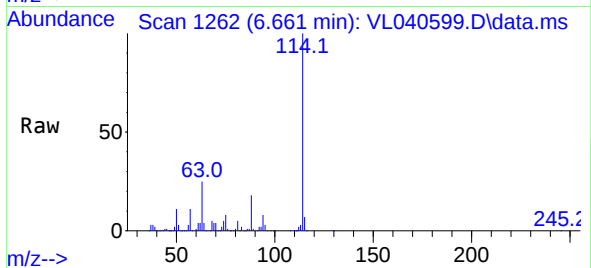
Tgt Ion:114 Resp: 2804492

Ion Ratio Lower Upper

114 100

63 26.2 19.6 29.4

88 18.6 14.2 21.2



#34

2-Butanone

Concen: 0.133 ppbv

RT: 4.799 min Scan# 683

Delta R.T. 0.006 min

Lab File: VL040599.D

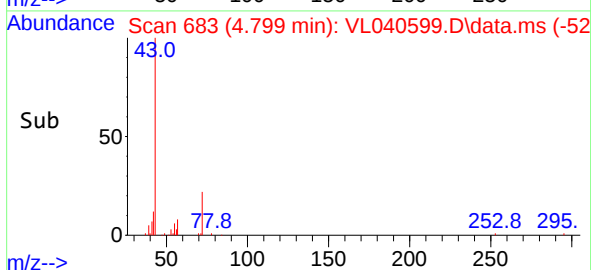
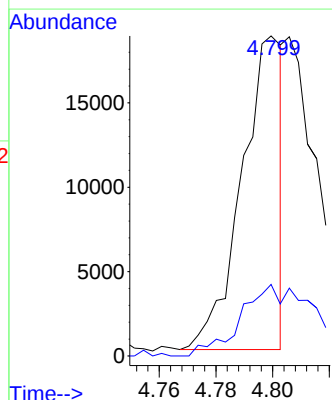
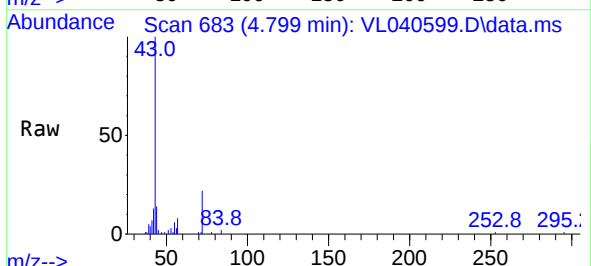
Acq: 7 Aug 2023 15:14

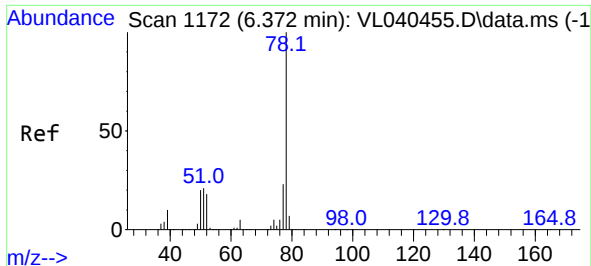
Tgt Ion: 43 Resp: 18394

Ion Ratio Lower Upper

43 100

72 45.1 19.1 28.7#

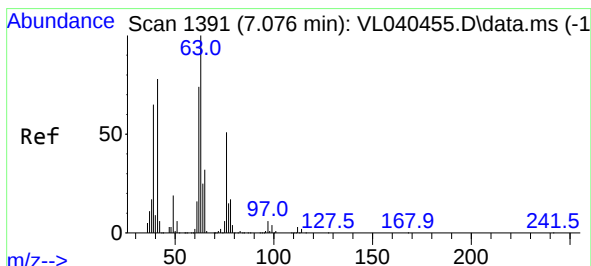
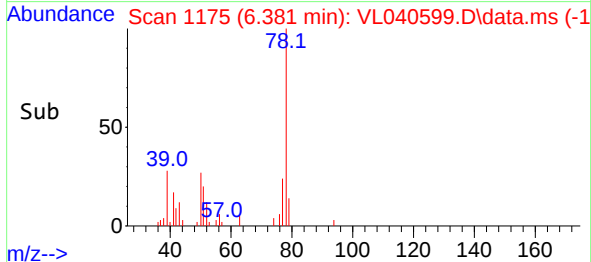
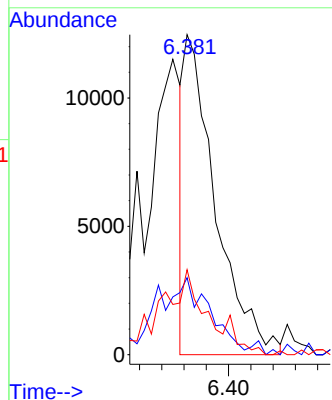
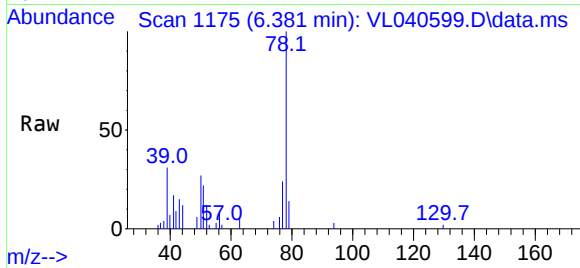




#36
Benzene
Concen: 0.054 ppbv
RT: 6.381 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VL040599.D
Acq: 7 Aug 2023 15:14

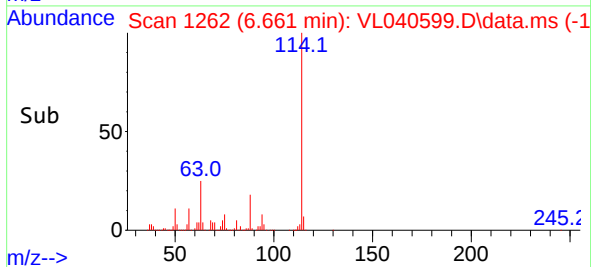
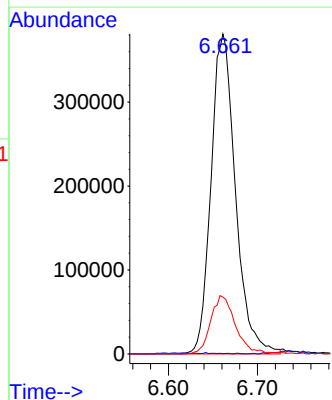
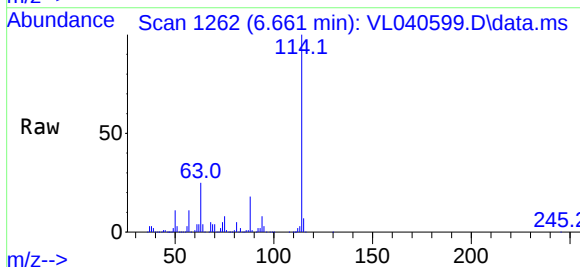
Instrument :
MSVOA_L
ClientSampleId :
OA-1DL

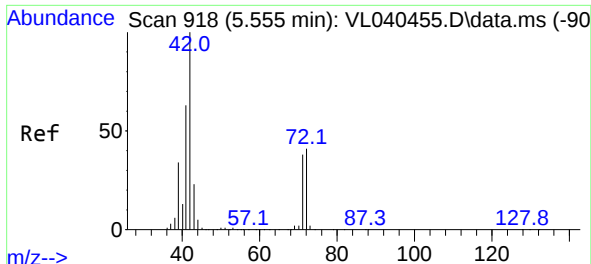
Tgt Ion: 78 Resp: 12116
Ion Ratio Lower Upper
78 100
77 24.8 17.4 26.0
50 26.1 14.4 21.6#



#39
1,2-Dichloropropane
Concen: 8.357 ppbv
RT: 6.661 min Scan# 1262
Delta R.T. -0.421 min
Lab File: VL040599.D
Acq: 7 Aug 2023 15:14

Tgt Ion: 63 Resp: 725988
Ion Ratio Lower Upper
63 100
41 0.0 54.3 81.5#
62 17.7 55.6 83.4#

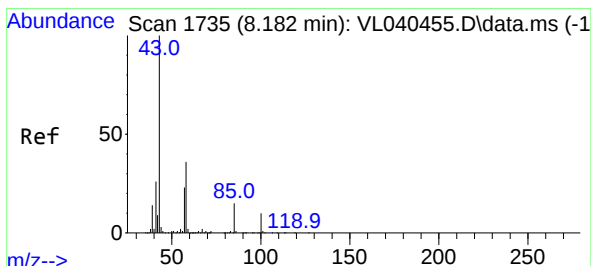
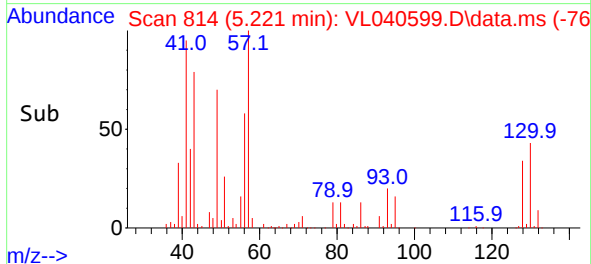
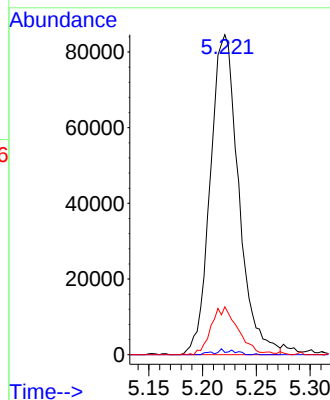
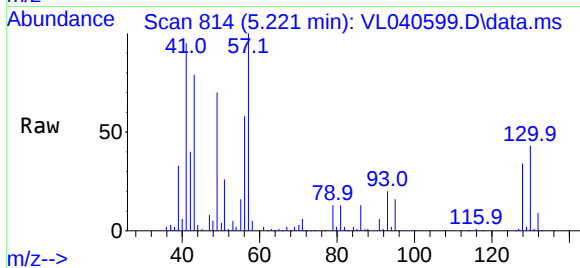




#41
Tetrahydrofuran
Concen: 1.919 ppbv
RT: 5.221 min Scan# 814
Delta R.T. -0.344 min
Lab File: VL040599.D
Acq: 7 Aug 2023 15:14

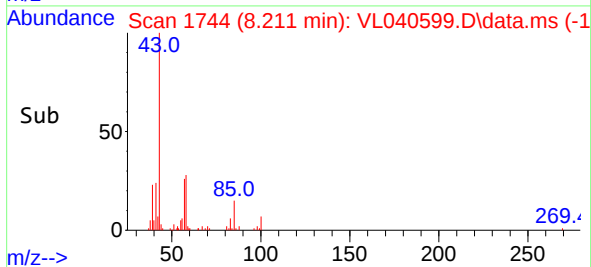
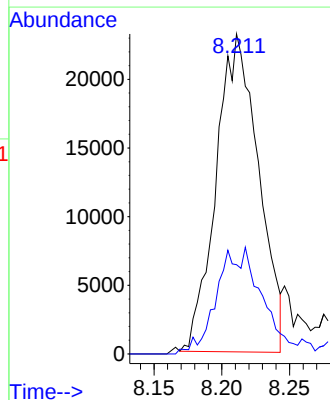
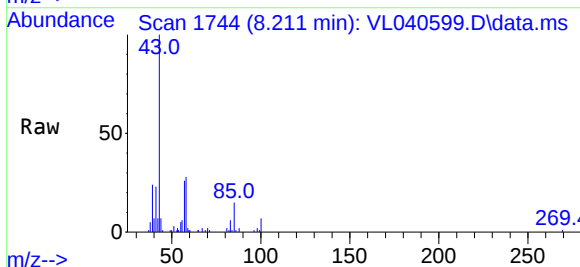
Instrument :
MSVOA_L
ClientSampleId :
OA-1DL

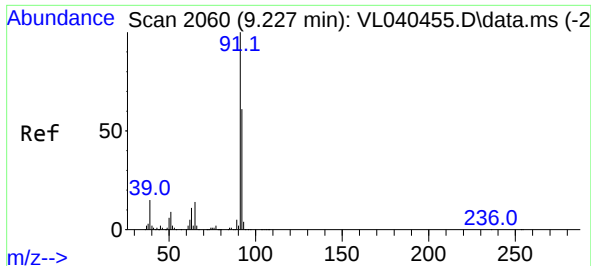
Tgt Ion: 42 Resp: 155216
Ion Ratio Lower Upper
42 100
72 1.1 33.8 50.8#
71 14.6 33.0 49.6#



#50
4-Methyl-2-Pentanone
Concen: 0.251 ppbv
RT: 8.211 min Scan# 1744
Delta R.T. 0.019 min
Lab File: VL040599.D
Acq: 7 Aug 2023 15:14

Tgt Ion: 43 Resp: 50448
Ion Ratio Lower Upper
43 100
58 37.6 30.2 45.2

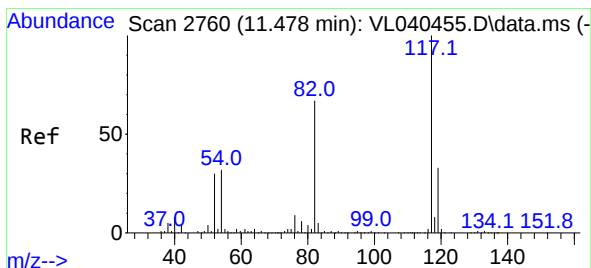
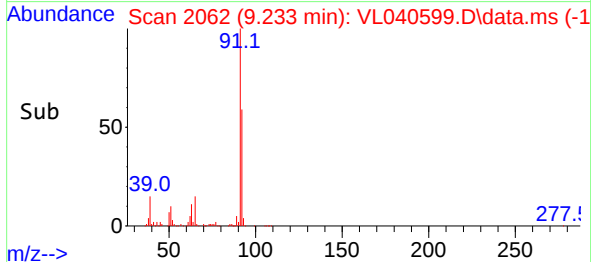
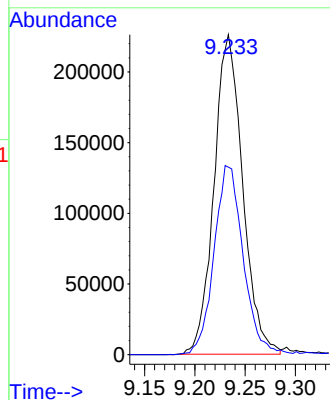
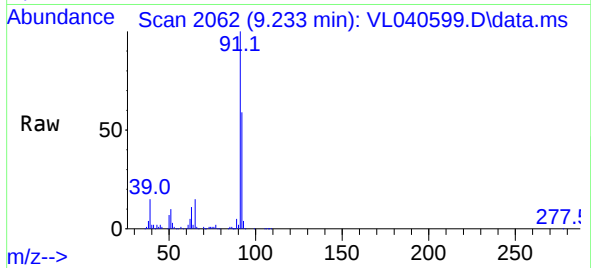




#53
Toluene
Concen: 1.829 ppbv
RT: 9.233 min Scan# 2060
Delta R.T. 0.003 min
Lab File: VL040599.D
Acq: 7 Aug 2023 15:14

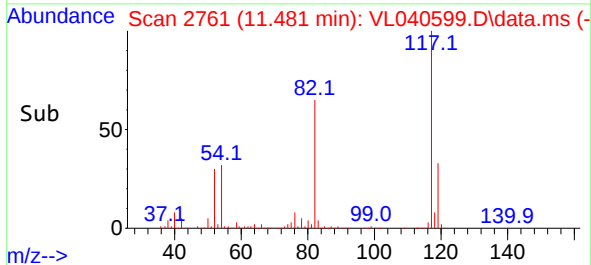
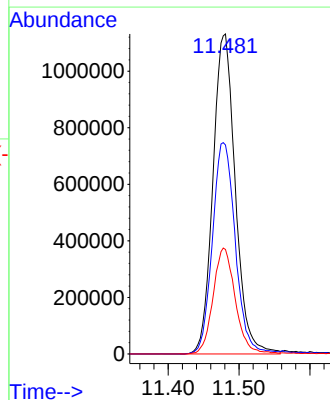
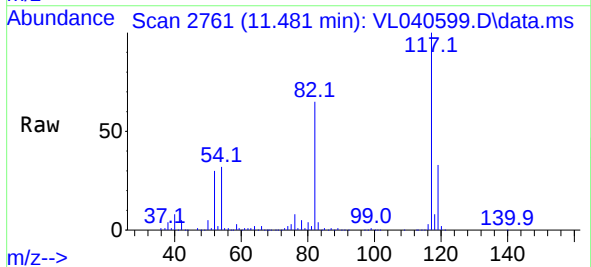
Instrument :
MSVOA_1
ClientSampleId :
OA-1DL

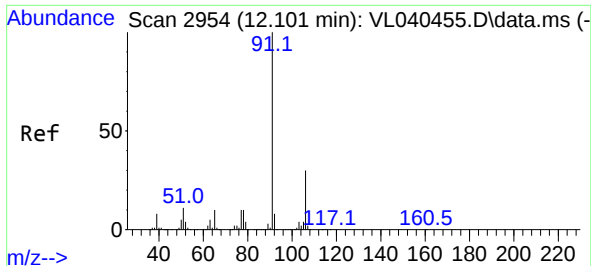
Tgt Ion: 91 Resp: 448291
Ion Ratio Lower Upper
91 100
92 60.4 49.1 73.7



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.481 min Scan# 2761
Delta R.T. 0.003 min
Lab File: VL040599.D
Acq: 7 Aug 2023 15:14

Tgt Ion: 117 Resp: 2484157
Ion Ratio Lower Upper
117 100
82 68.6 50.2 75.4
119 33.1 26.9 40.3

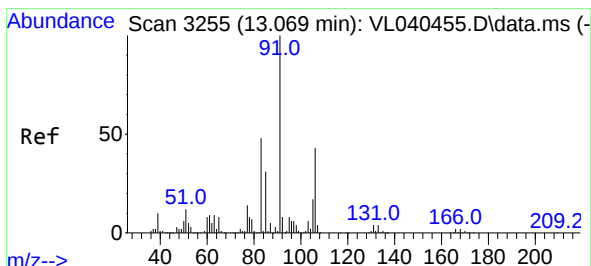
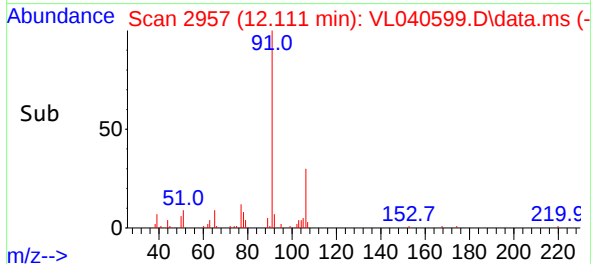
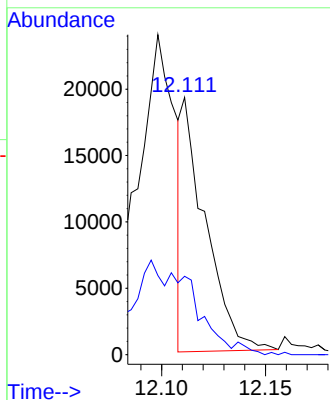
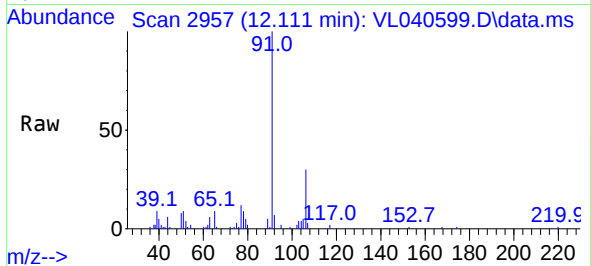




#58
Ethyl Benzene
Concen: 0.049 ppbv
RT: 12.111 min Scan# 2957
Delta R.T. 0.010 min
Lab File: VL040599.D
Acq: 7 Aug 2023 15:14

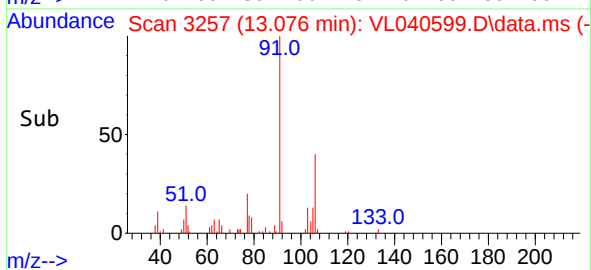
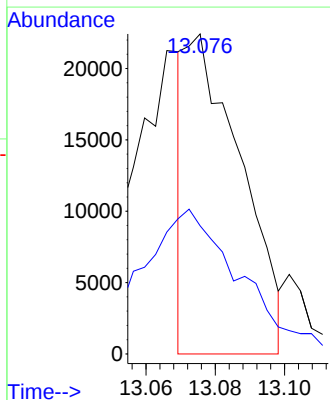
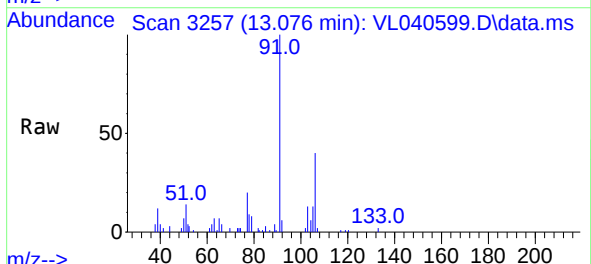
Instrument :
MSVOA_L
ClientSampleId :
OA-1DL

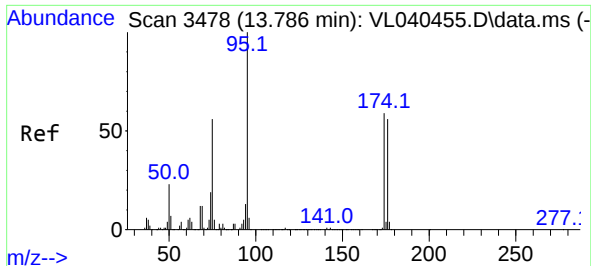
Tgt Ion: 91 Resp: 15210
Ion Ratio Lower Upper
91 100
106 31.1 25.4 38.0



#60
o-Xylene
Concen: 0.094 ppbv
RT: 13.076 min Scan# 3257
Delta R.T. 0.006 min
Lab File: VL040599.D
Acq: 7 Aug 2023 15:14

Tgt Ion: 91 Resp: 24909
Ion Ratio Lower Upper
91 100
106 87.3 22.7 68.0#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.578 ppbv

RT: 13.786 min Scan# 34

Delta R.T. 0.003 min

Lab File: VL040599.D

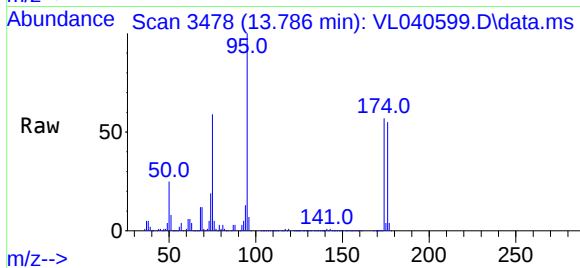
Acq: 7 Aug 2023 15:14

Instrument :

MSVOA_L

ClientSampleId :

OA-1DL



Tgt Ion: 95 Resp: 2079629

Ion Ratio Lower Upper

95 100

174 59.8 50.6 75.8

175 4.1 3.7 5.5

