

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042524\
 Data File : VL041174.D
 Acq On : 25 Apr 2024 17:16
 Operator : SY/MD
 Sample : P2253-05
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Quant Time: Apr 26 03:15:20 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL040424AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 26 03:09:28 2024
 Response via : Initial Calibration

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

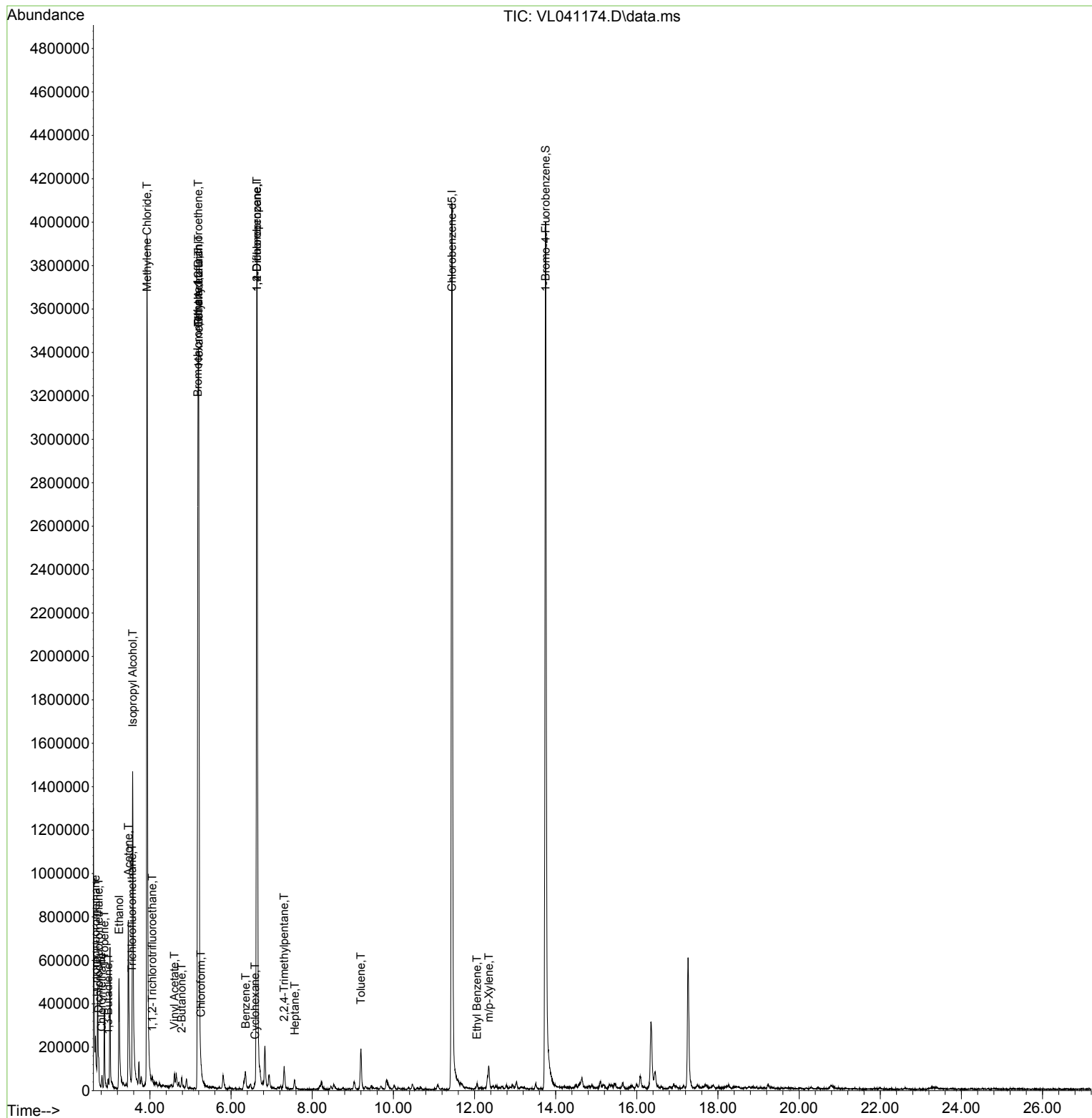
Internal Standards						
1) Bromochloromethane	5.182	49	1166244	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.639	114	3075960	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.442	117	2705266	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.751	95	2123195	9.760	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.738	85	66838	0.335	ppbv	93
3) Chlorodifluoromethane	2.658	51	138955	0.774	ppbv #	75
4) Chloromethane	2.816	50	45217	0.665	ppbv	93
9) Propene	2.877	41	69125	1.210	ppbv	91
10) Heptane	7.568	43	6172	0.045	ppbv #	27
11) Trichlorofluoromethane	3.558	101	54160	0.299	ppbv	96
12) 1,1,2-Trichlorotrifluo...	4.057	101	9919	0.076	ppbv	87
13) Ethanol	3.240	45	535315	39.386	ppbv	99
15) Acetone	3.468	43	785248	6.218	ppbv	98
16) 1,3-Butadiene	2.970	39	10940	0.176	ppbv #	10
19) Isopropyl Alcohol	3.574	45	1520945	19.826	ppbv #	96
20) Methylene Chloride	3.928	84	1314293	25.235	ppbv	96
23) Vinyl Acetate	4.607	43	43593	0.338	ppbv #	71
25) Ethyl Acetate	5.201	43	794428	3.350	ppbv #	79
26) Hexane	5.205	57	1075865	10.110	ppbv #	41
29) Chloroform	5.259	83	7246	0.040	ppbv #	82
30) Cyclohexane	6.590	84	4579	0.053	ppbv #	25
31) cis-1,2-Dichloroethene	5.195	61	5850	0.058	ppbv #	34
34) 2-Butanone	4.783	43	48833	0.375	ppbv #	90
36) Benzene	6.359	78	35676	0.158	ppbv #	91
39) 1,2-Dichloropropane	6.635	63	737804	8.284	ppbv #	24
41) Tetrahydrofuran	5.201	42	414002	4.777	ppbv #	50
44) 2,2,4-Trimethylpentane	7.307	57	53115	0.142	ppbv #	50
53) Toluene	9.201	91	108463	0.456	ppbv	98
58) Ethyl Benzene	12.060	91	9162	0.031	ppbv	90
59) m/p-Xylene	12.352	91	75293	0.281	ppbv #	66

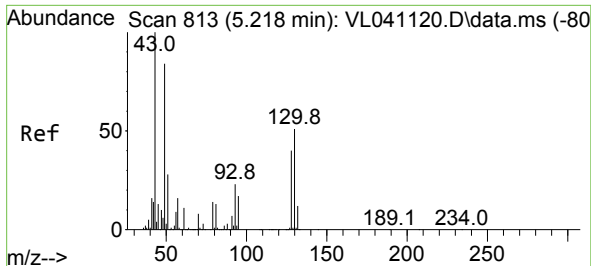
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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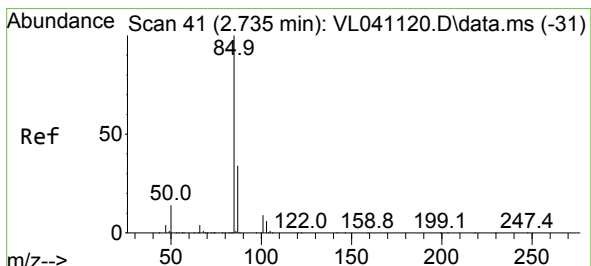
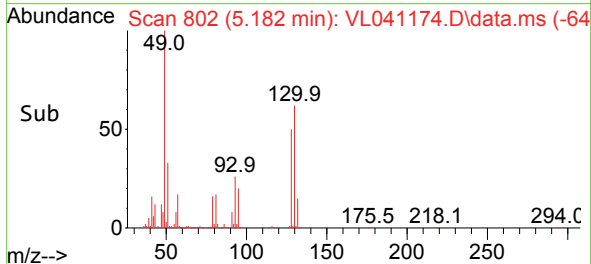
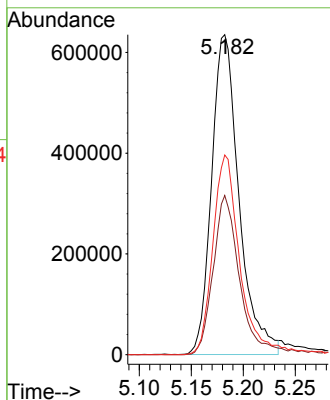
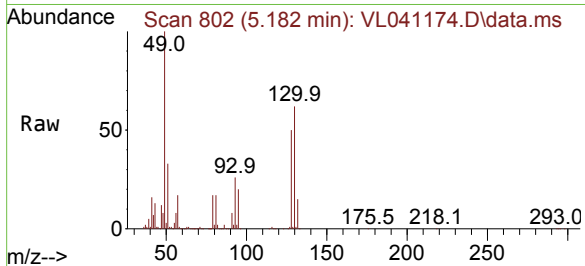




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.182 min Scan# 80
Delta R.T. 0.003 min
Lab File: VL041174.D
Acq: 25 Apr 2024 17:16

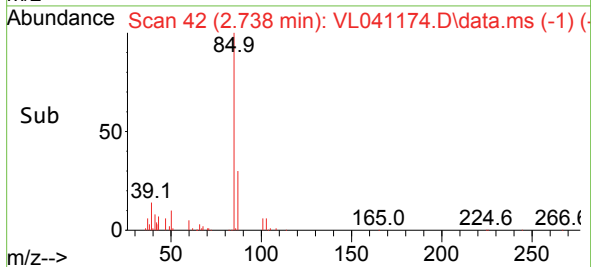
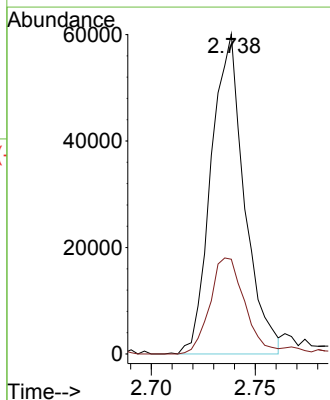
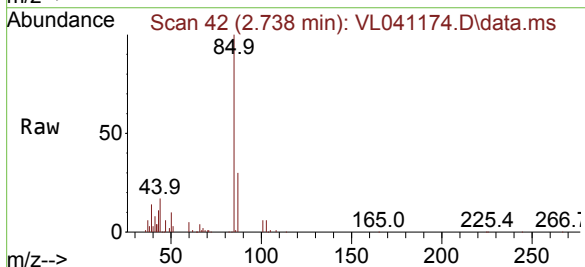
Instrument :
MSVOA_L
ClientSampleId :
OA1

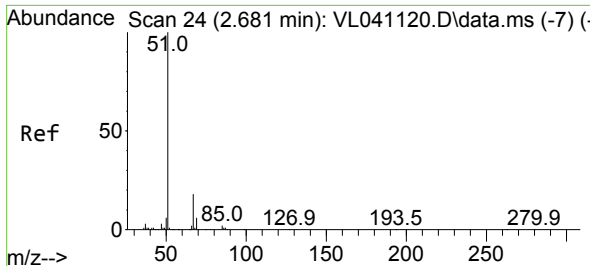
Tgt Ion: 49 Resp: 1166244
Ion Ratio Lower Upper
49 100
128 49.5 23.6 71.0
130 63.8 30.1 90.5



#2
Dichlorodifluoromethane
Concen: 0.335 ppbv
RT: 2.738 min Scan# 42
Delta R.T. 0.010 min
Lab File: VL041174.D
Acq: 25 Apr 2024 17:16

Tgt Ion: 85 Resp: 66838
Ion Ratio Lower Upper
85 100
87 29.6 27.0 40.6

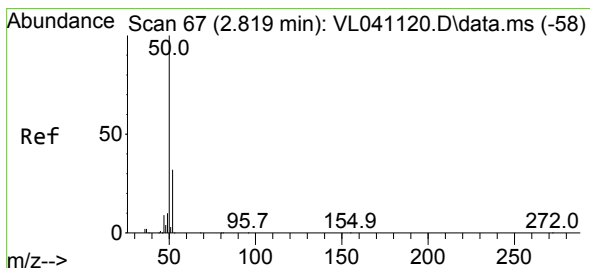
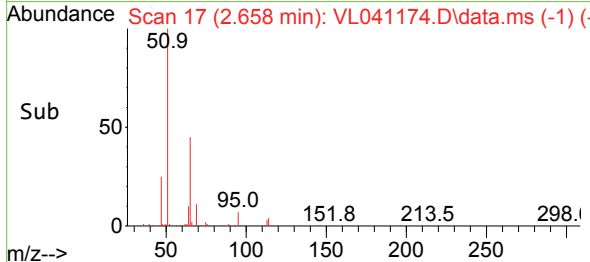
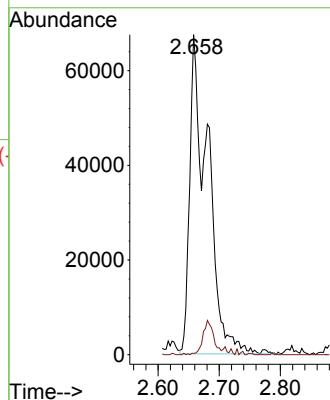
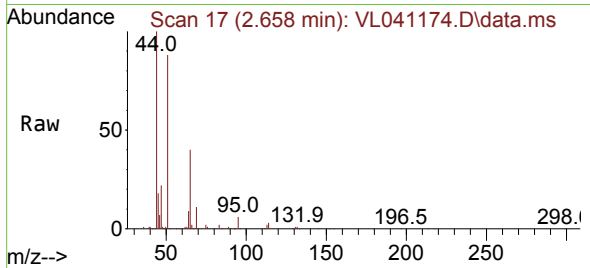




#3
Chlorodifluoromethane
Concen: 0.774 ppbv
RT: 2.658 min Scan# 11
Delta R.T. -0.016 min
Lab File: VL041174.D
Acq: 25 Apr 2024 17:16

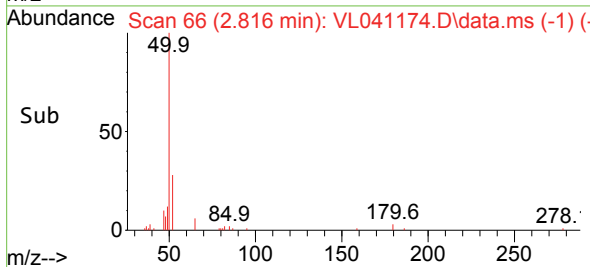
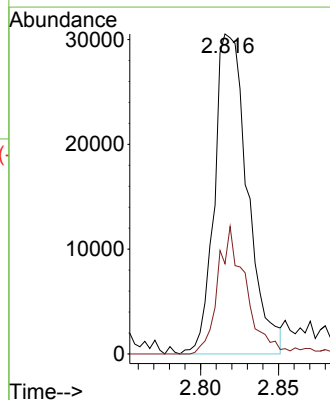
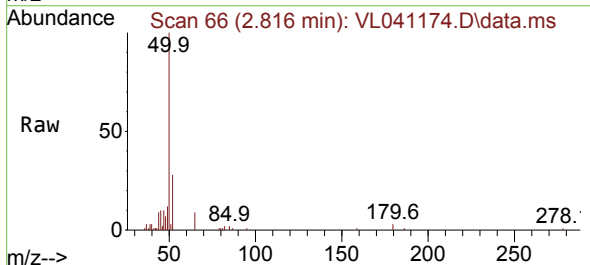
Instrument :
MSVOA_L
ClientSampleId :
OA1

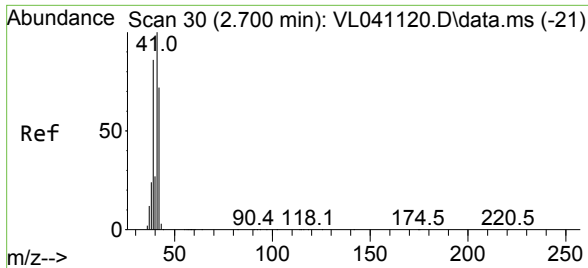
Tgt Ion: 51 Resp: 138955
Ion Ratio Lower Upper
51 100
67 7.4 14.9 22.3#



#4
Chloromethane
Concen: 0.665 ppbv
RT: 2.816 min Scan# 66
Delta R.T. 0.007 min
Lab File: VL041174.D
Acq: 25 Apr 2024 17:16

Tgt Ion: 50 Resp: 45217
Ion Ratio Lower Upper
50 100
52 28.4 26.0 39.0

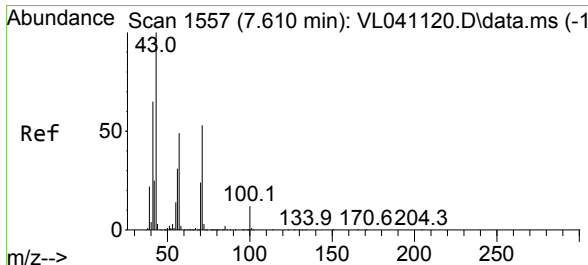
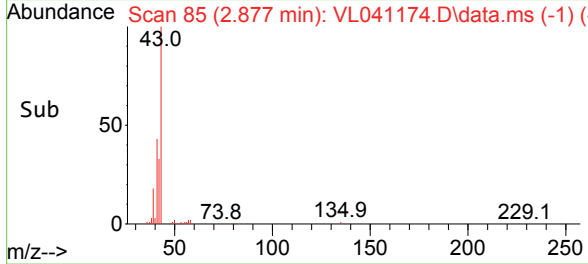
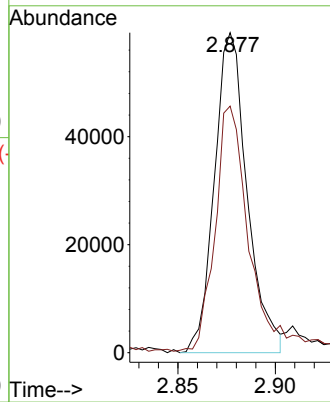
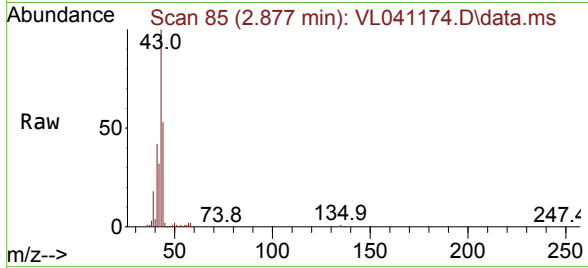




#9
 Propene
 Concen: 1.210 ppbv
 RT: 2.877 min Scan# 81
 Delta R.T. 0.183 min
 Lab File: VL041174.D
 Acq: 25 Apr 2024 17:16

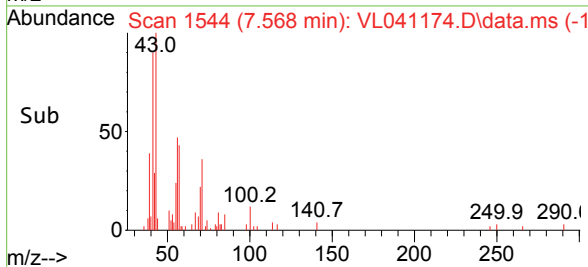
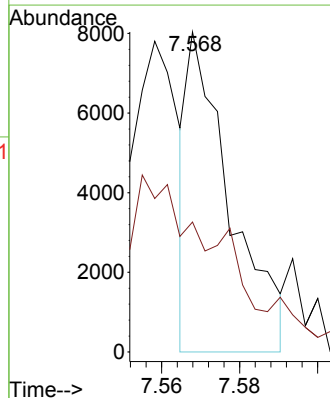
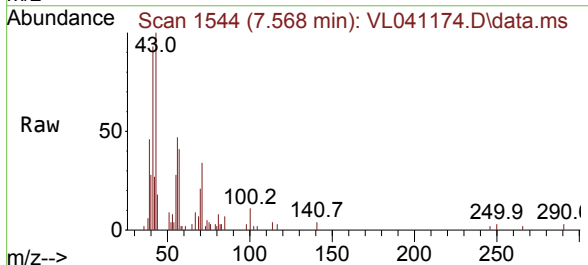
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

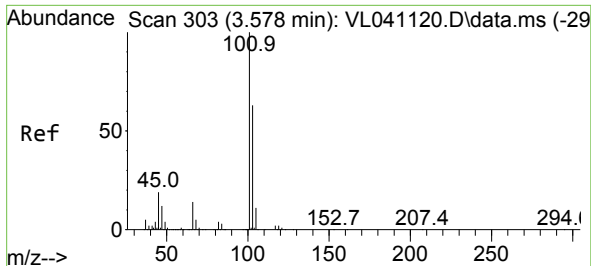
Tgt Ion: 41 Resp: 69125
 Ion Ratio Lower Upper
 41 100
 42 82.6 60.1 90.1



#10
 Heptane
 Concen: 0.045 ppbv
 RT: 7.568 min Scan# 1544
 Delta R.T. 0.010 min
 Lab File: VL041174.D
 Acq: 25 Apr 2024 17:16

Tgt Ion: 43 Resp: 6172
 Ion Ratio Lower Upper
 43 100
 57 0.0 39.9 59.9

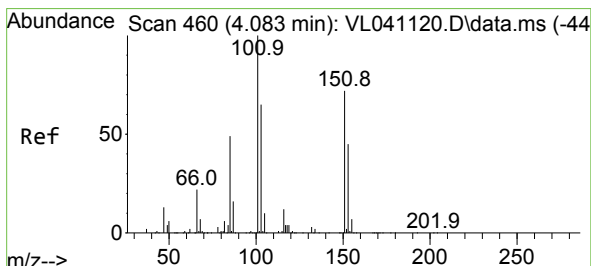
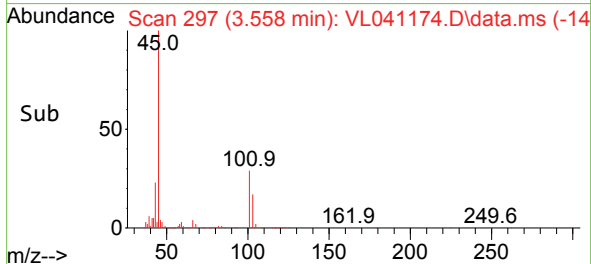
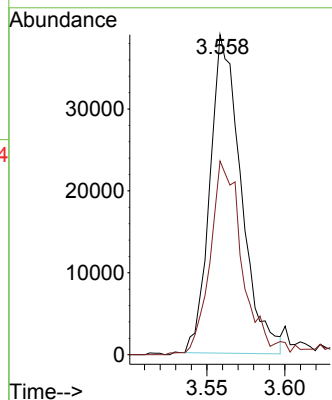
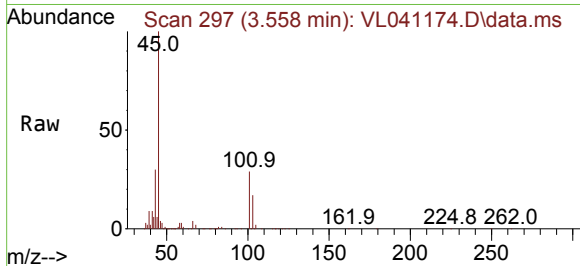




#11
 Trichlorofluoromethane
 Concen: 0.299 ppbv
 RT: 3.558 min Scan# 297
 Delta R.T. 0.003 min
 Lab File: VL041174.D
 Acq: 25 Apr 2024 17:16

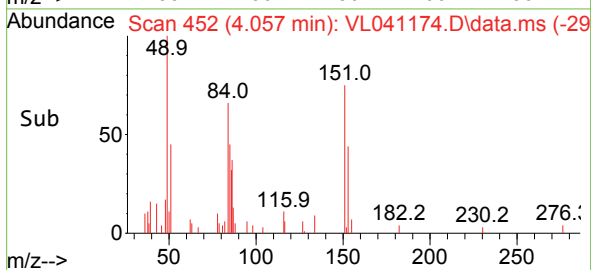
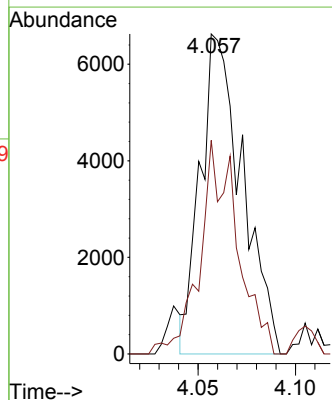
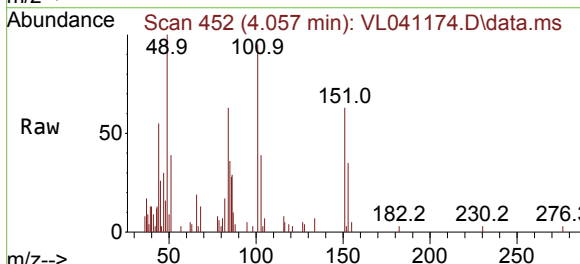
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

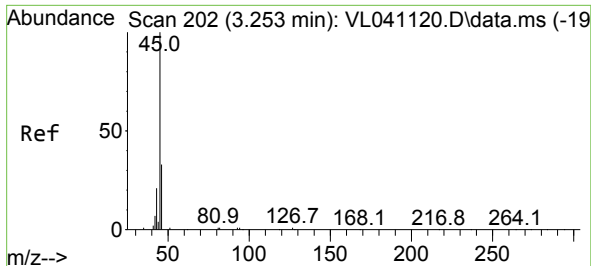
Tgt Ion:101 Resp: 54160
 Ion Ratio Lower Upper
 101 100
 103 60.3 50.6 75.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.076 ppbv
 RT: 4.057 min Scan# 452
 Delta R.T. 0.000 min
 Lab File: VL041174.D
 Acq: 25 Apr 2024 17:16

Tgt Ion:101 Resp: 9919
 Ion Ratio Lower Upper
 101 100
 151 59.5 56.2 84.4

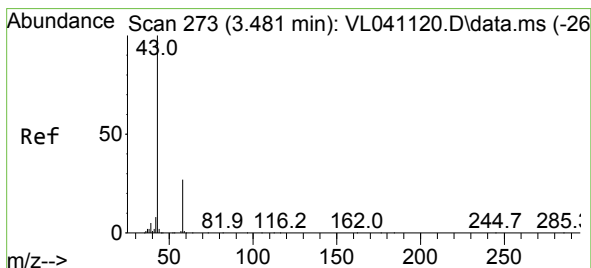
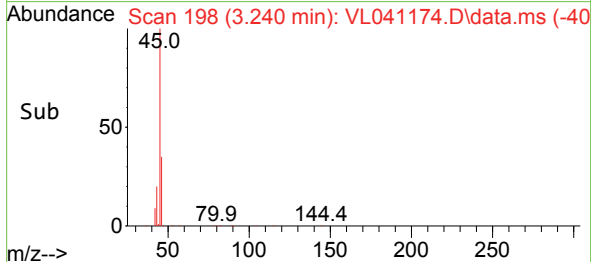
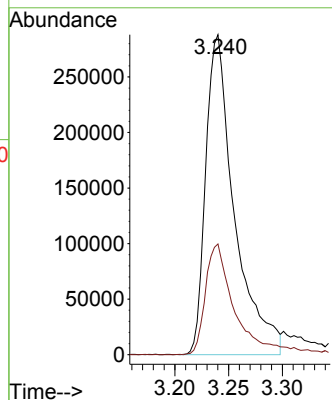
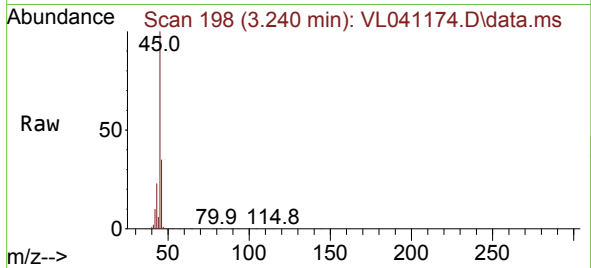




#13
Ethanol
Concen: 39.386 ppbv
RT: 3.240 min Scan# 198
Delta R.T. 0.006 min
Lab File: VL041174.D
Acq: 25 Apr 2024 17:16

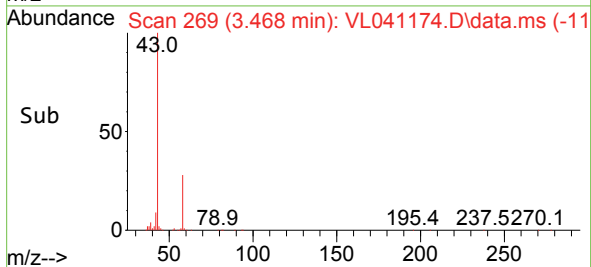
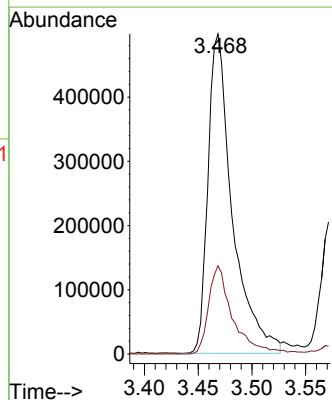
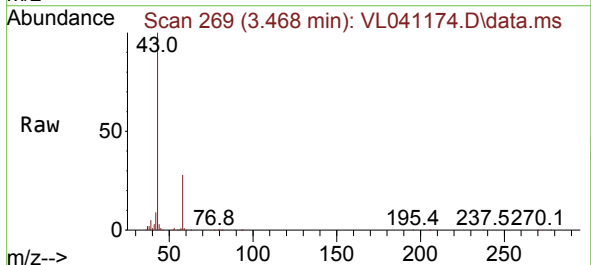
Instrument :
MSVOA_L
ClientSampleId :
OA1

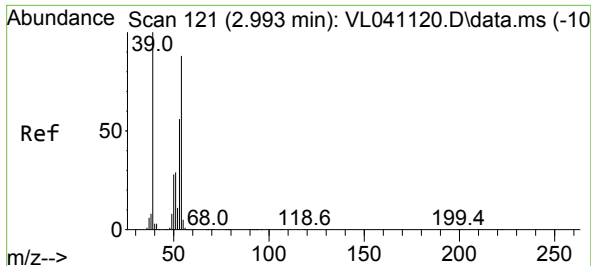
Tgt Ion: 45 Resp: 535315
Ion Ratio Lower Upper
45 100
46 36.8 15.0 59.8



#15
Acetone
Concen: 6.218 ppbv
RT: 3.468 min Scan# 269
Delta R.T. 0.010 min
Lab File: VL041174.D
Acq: 25 Apr 2024 17:16

Tgt Ion: 43 Resp: 785248
Ion Ratio Lower Upper
43 100
58 27.5 21.1 31.7

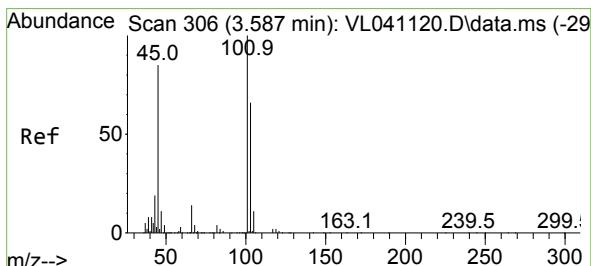
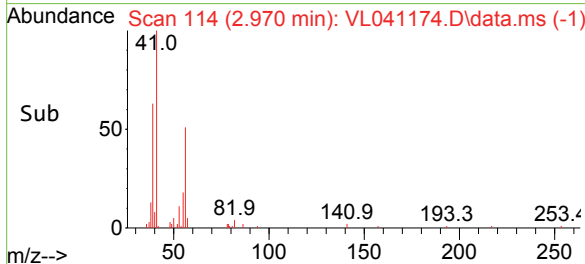
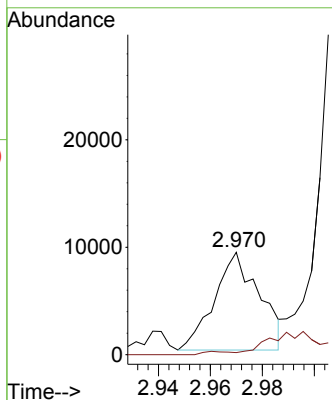
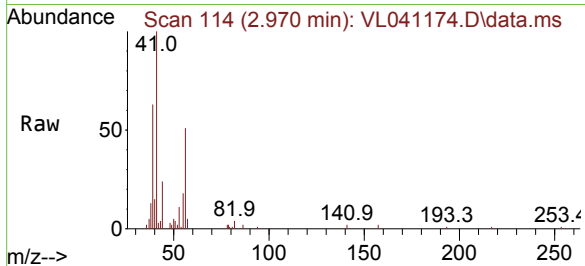




#16
1,3-Butadiene
Concen: 0.176 ppbv
RT: 2.970 min Scan# 114
Delta R.T. -0.013 min
Lab File: VL041174.D
Acq: 25 Apr 2024 17:16

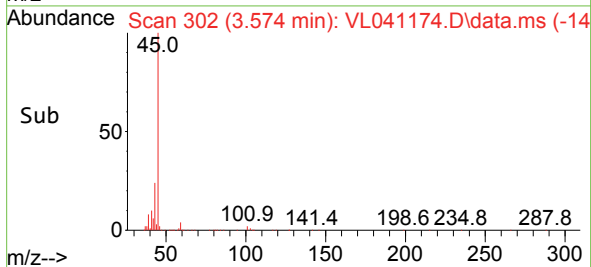
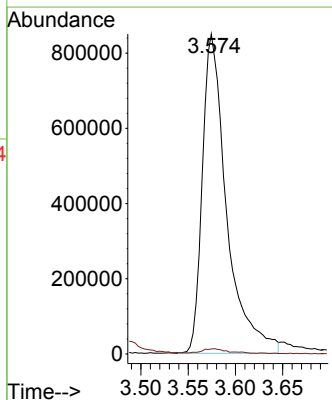
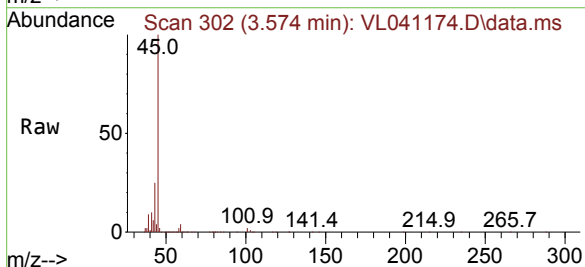
Instrument :
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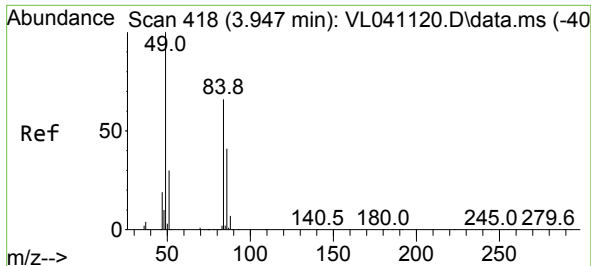
Tgt Ion: 39 Resp: 10940
Ion Ratio Lower Upper
39 100
54 0.0 63.5 95.3#



#19
Isopropyl Alcohol
Concen: 19.826 ppbv
RT: 3.574 min Scan# 302
Delta R.T. 0.006 min
Lab File: VL041174.D
Acq: 25 Apr 2024 17:16

Tgt Ion: 45 Resp: 1520945
Ion Ratio Lower Upper
45 100
58 2.3 2.8 4.2#



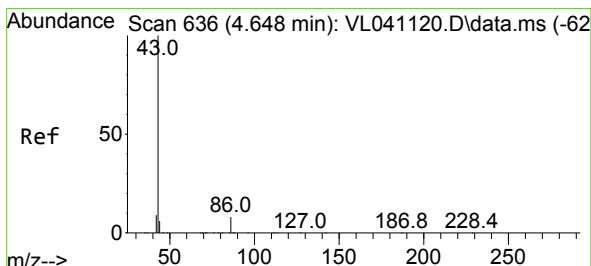
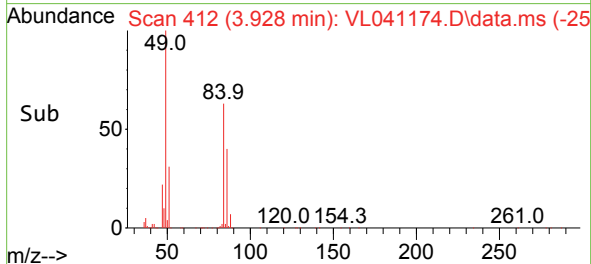
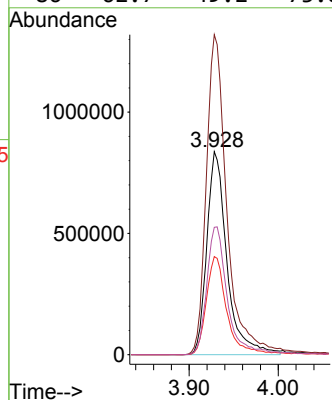
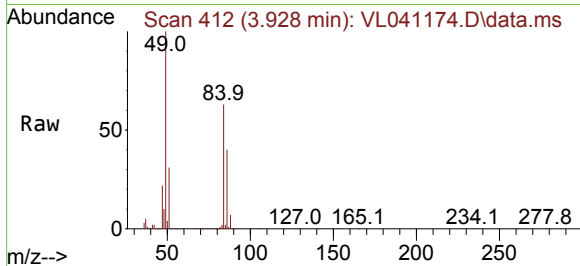


#20
Methylene Chloride
Concen: 25.235 ppbv
RT: 3.928 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL041174.D
Acq: 25 Apr 2024 17:16

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 84 Resp: 1314293

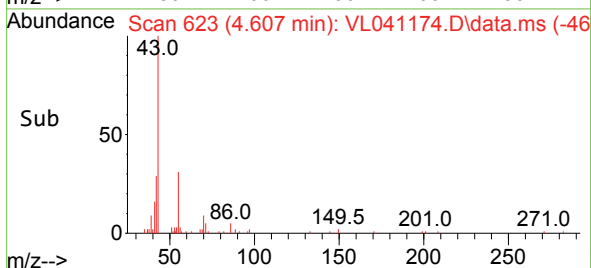
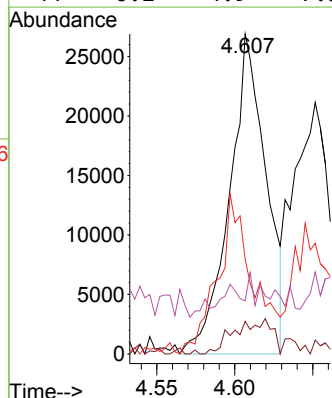
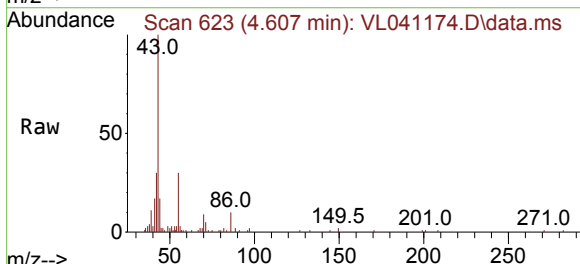
Ion	Ratio	Lower	Upper
84	100		
49	157.6	120.7	181.1
51	48.3	36.6	54.8
86	62.7	49.2	73.8

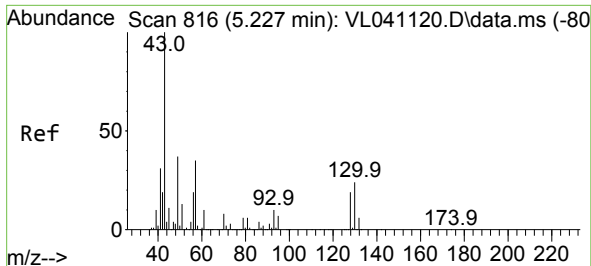


#23
Vinyl Acetate
Concen: 0.338 ppbv
RT: 4.607 min Scan# 623
Delta R.T. -0.006 min
Lab File: VL041174.D
Acq: 25 Apr 2024 17:16

Tgt Ion: 43 Resp: 43593

Ion	Ratio	Lower	Upper
43	100		
86	10.2	6.2	9.4#
42	29.6	7.7	11.5#
44	0.2	4.9	7.3#

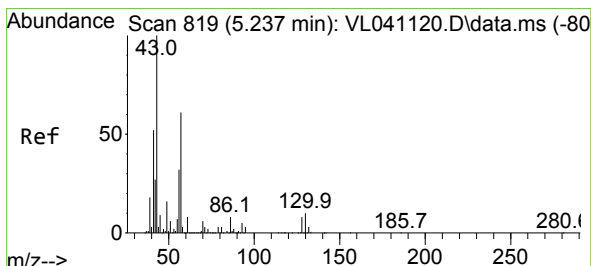
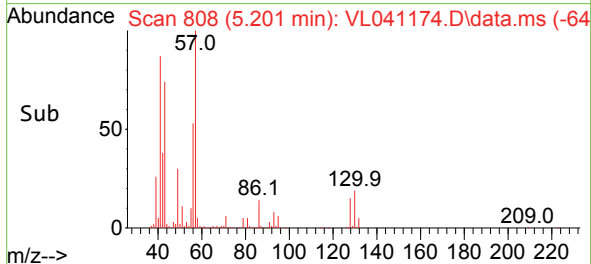
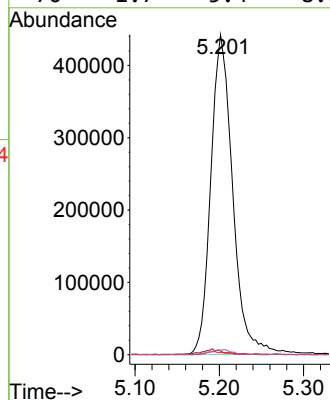
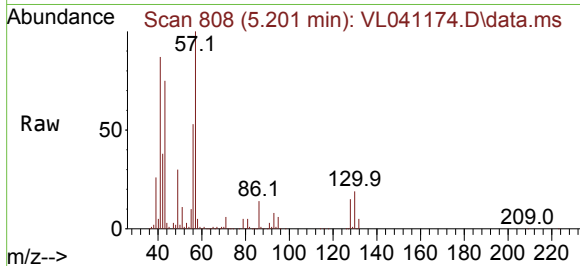




#25
Ethyl Acetate
Concen: 3.350 ppbv
RT: 5.201 min Scan# 808
Delta R.T. 0.013 min
Lab File: VL041174.D
Acq: 25 Apr 2024 17:16

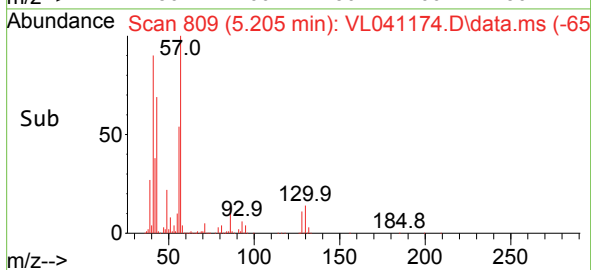
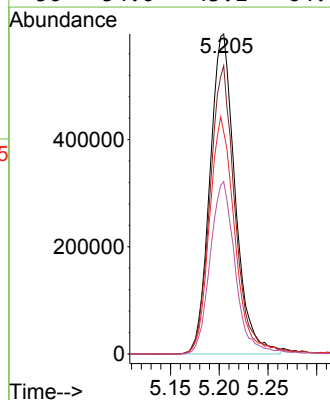
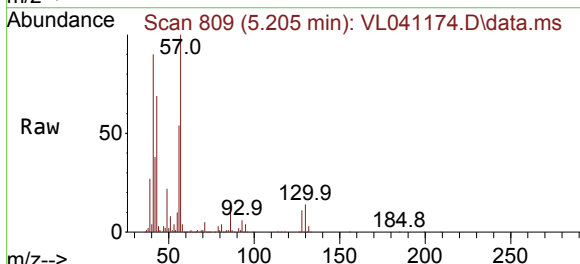
Instrument :
MSVOA_L
ClientSampleId :
OA1

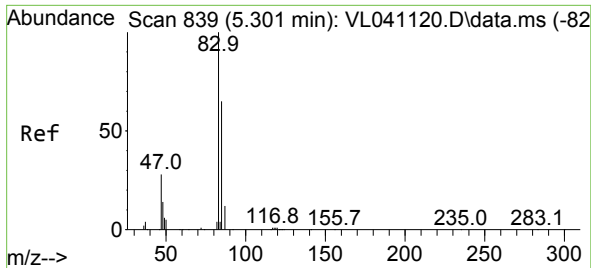
Tgt Ion: 43 Resp: 794428
Ion Ratio Lower Upper
43 100
45 2.0 8.0 12.0#
61 0.9 7.8 11.6#
70 1.7 5.4 8.0#



#26
Hexane
Concen: 10.110 ppbv
RT: 5.205 min Scan# 809
Delta R.T. 0.010 min
Lab File: VL041174.D
Acq: 25 Apr 2024 17:16

Tgt Ion: 57 Resp: 1075865
Ion Ratio Lower Upper
57 100
41 90.3 73.8 110.8
43 74.8 186.2 279.2#
56 54.0 43.1 64.7





#29

Chloroform

Concen: 0.040 ppbv

RT: 5.259 min Scan# 81

Delta R.T. 0.000 min

Lab File: VL041174.D

Acq: 25 Apr 2024 17:16

Instrument :

MSVOA_L

ClientSampleId :

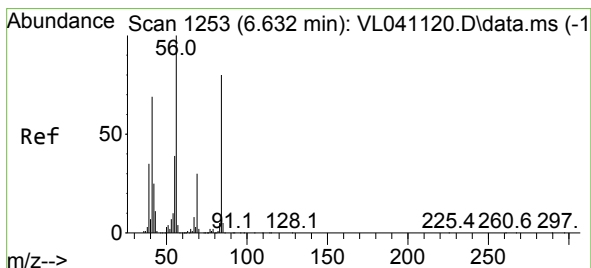
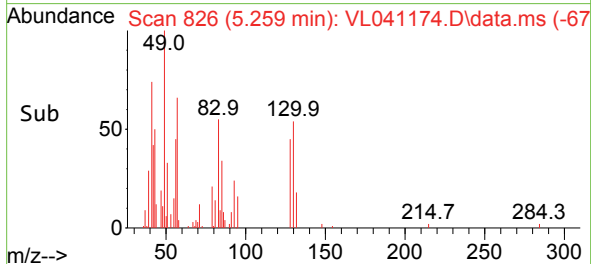
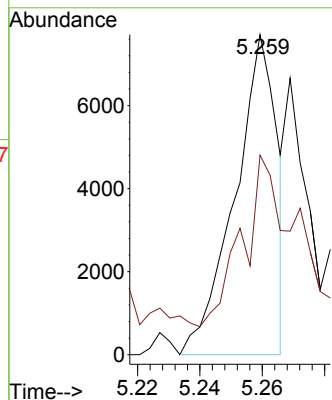
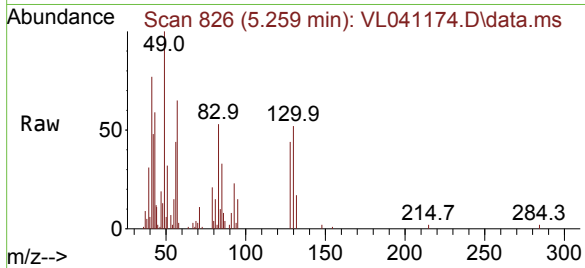
OA1

Tgt Ion: 83 Resp: 7246

Ion Ratio Lower Upper

83 100

85 50.2 51.5 77.3#



#30

Cyclohexane

Concen: 0.053 ppbv

RT: 6.590 min Scan# 1240

Delta R.T. 0.010 min

Lab File: VL041174.D

Acq: 25 Apr 2024 17:16

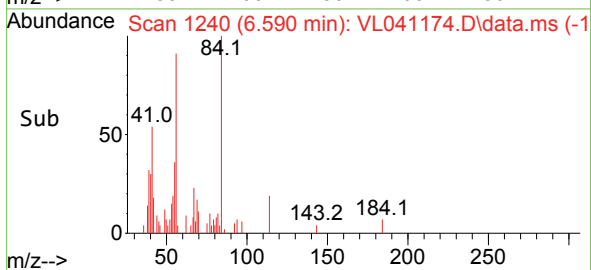
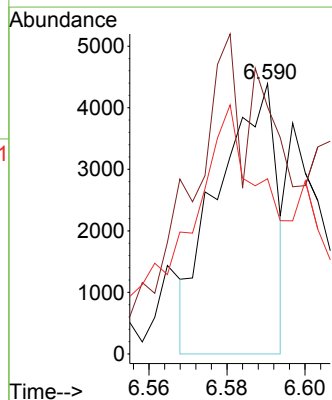
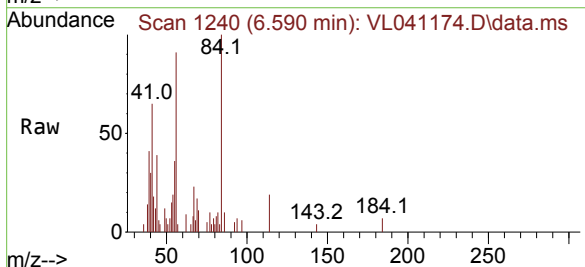
Tgt Ion: 84 Resp: 4579

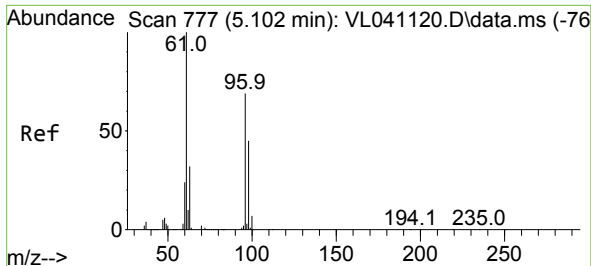
Ion Ratio Lower Upper

84 100

56 172.6 111.9 167.9#

41 230.8 71.0 106.6#

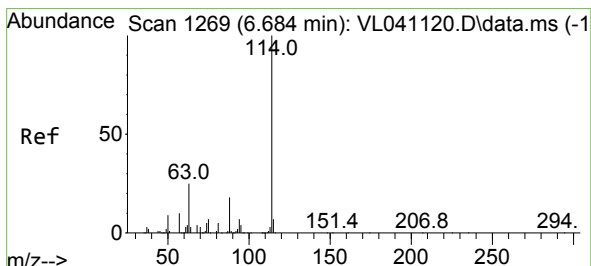
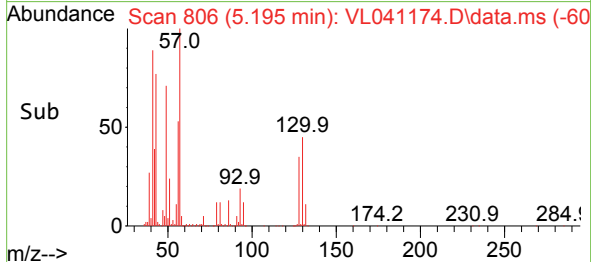
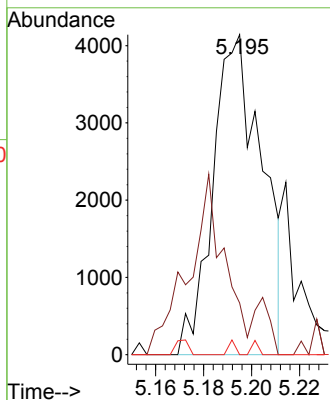
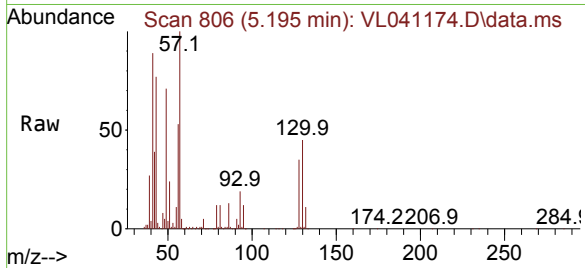




#31
 cis-1,2-Dichloroethene
 Concen: 0.058 ppbv
 RT: 5.195 min Scan# 80
 Delta R.T. 0.132 min
 Lab File: VL041174.D
 Acq: 25 Apr 2024 17:16

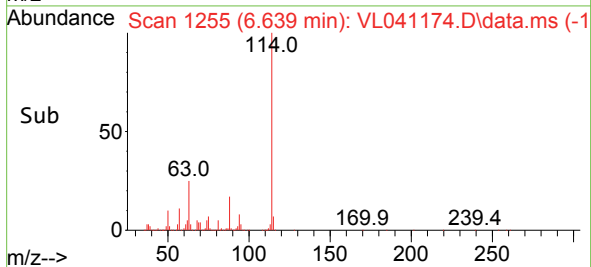
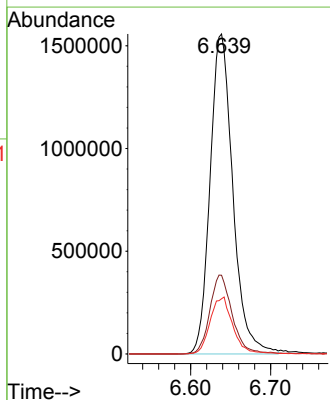
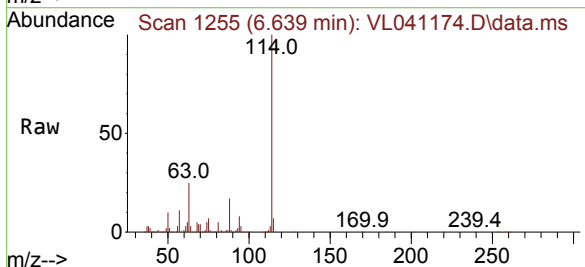
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

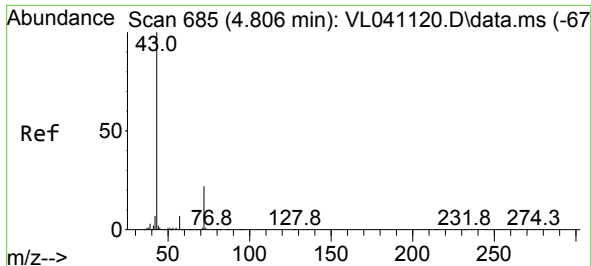
Tgt Ion: 61 Resp: 5850
 Ion Ratio Lower Upper
 61 100
 96 16.2 54.9 82.3#
 98 0.0 35.9 53.9#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 6.639 min Scan# 1255
 Delta R.T. 0.003 min
 Lab File: VL041174.D
 Acq: 25 Apr 2024 17:16

Tgt Ion: 114 Resp: 3075960
 Ion Ratio Lower Upper
 114 100
 63 24.5 20.9 31.3
 88 17.9 14.5 21.7

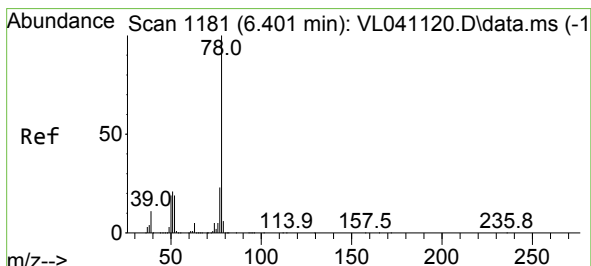
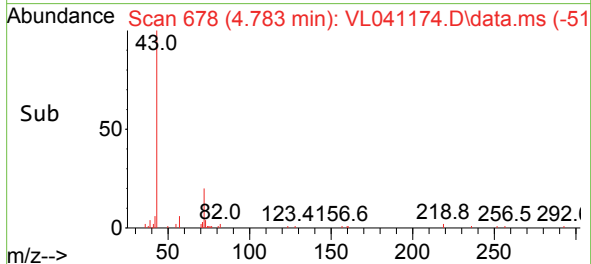
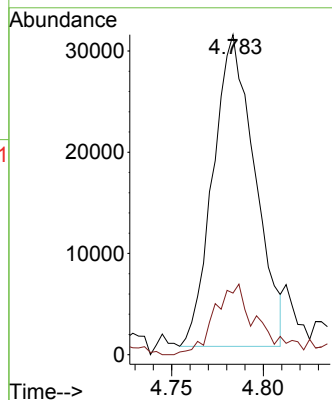
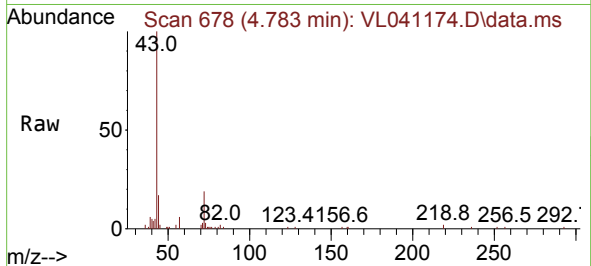




#34
2-Butanone
Concen: 0.375 ppbv
RT: 4.783 min Scan# 61
Delta R.T. 0.013 min
Lab File: VL041174.D
Acq: 25 Apr 2024 17:16

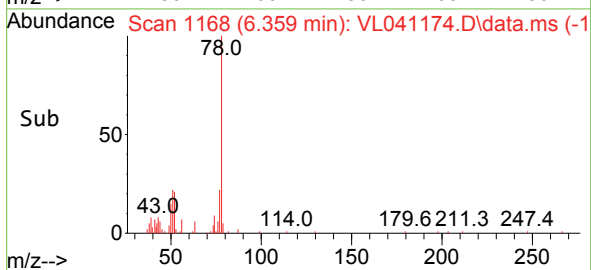
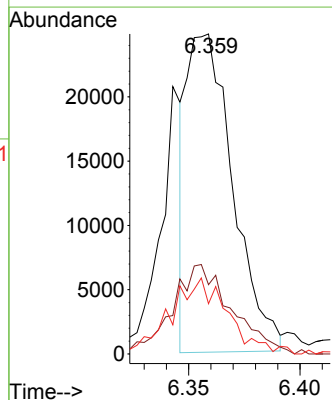
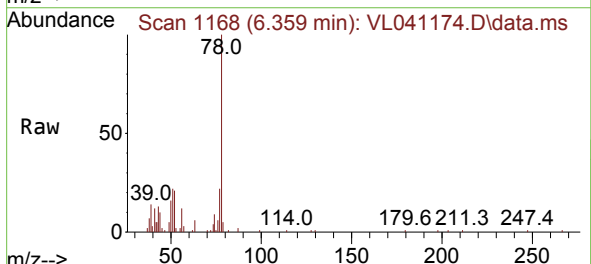
Instrument :
MSVOA_L
ClientSampleId :
OA1

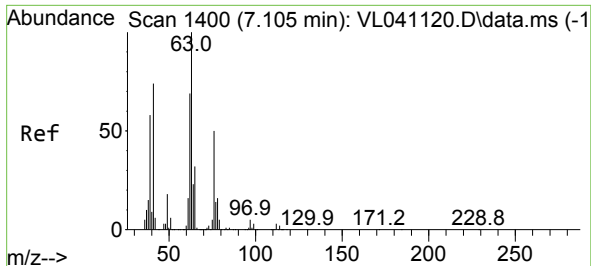
Tgt Ion: 43 Resp: 48833
Ion Ratio Lower Upper
43 100
72 27.0 17.6 26.4#



#36
Benzene
Concen: 0.158 ppbv
RT: 6.359 min Scan# 1168
Delta R.T. 0.006 min
Lab File: VL041174.D
Acq: 25 Apr 2024 17:16

Tgt Ion: 78 Resp: 35676
Ion Ratio Lower Upper
78 100
77 19.8 18.2 27.4
50 13.5 15.4 23.2#





#39

1,2-Dichloropropane

Concen: 8.284 ppbv

RT: 6.635 min Scan# 1

Delta R.T. -0.421 min

Lab File: VL041174.D

Acq: 25 Apr 2024 17:16

Instrument :

MSVOA_L

ClientSampleId :

OA1

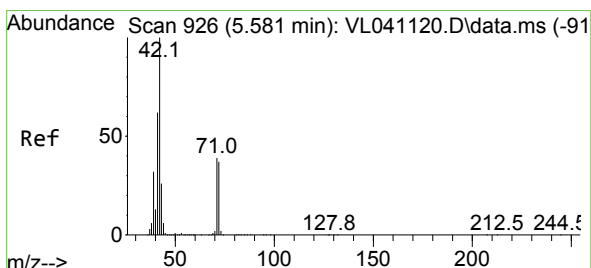
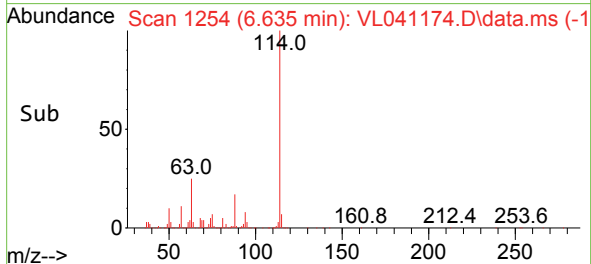
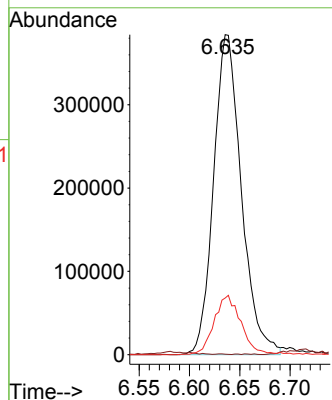
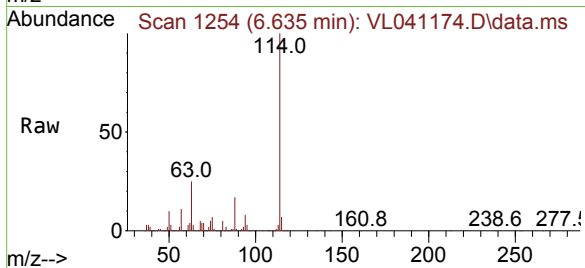
Tgt Ion: 63 Resp: 737804

Ion Ratio Lower Upper

63 100

41 0.0 58.7 88.1#

62 17.6 55.5 83.3#



#41

Tetrahydrofuran

Concen: 4.777 ppbv

RT: 5.201 min Scan# 808

Delta R.T. -0.338 min

Lab File: VL041174.D

Acq: 25 Apr 2024 17:16

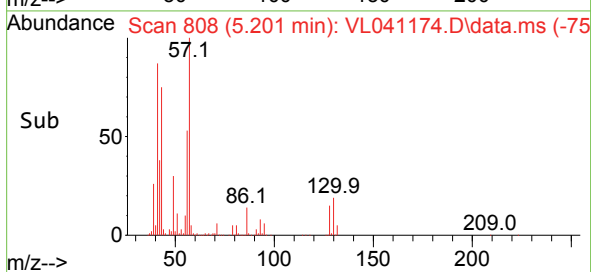
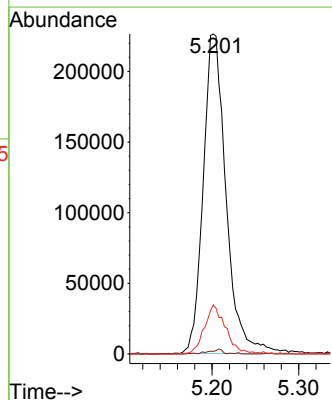
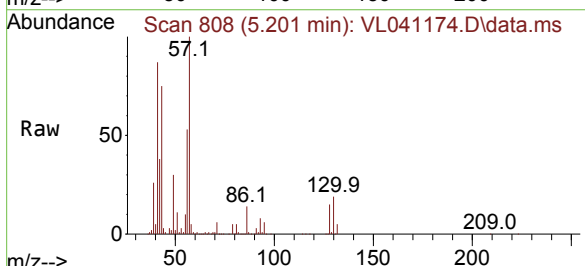
Tgt Ion: 42 Resp: 414002

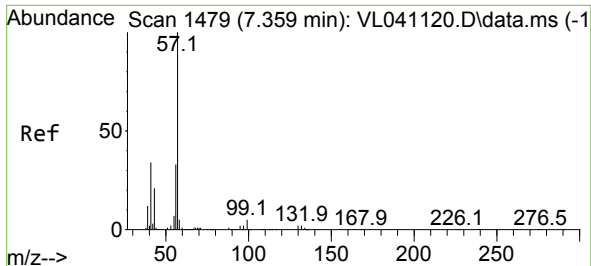
Ion Ratio Lower Upper

42 100

72 1.0 31.2 46.8#

71 14.6 29.9 44.9#

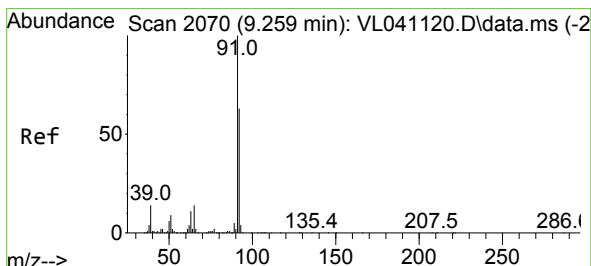
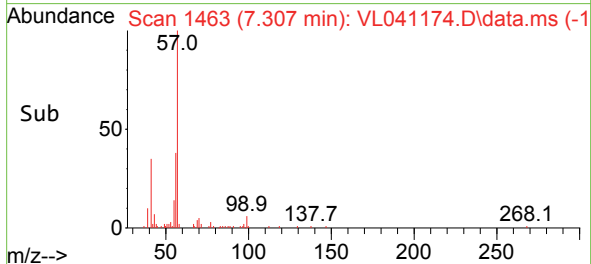
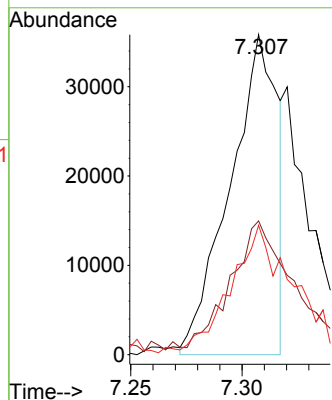
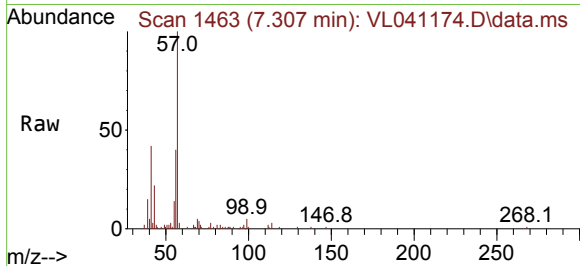




#44
2,2,4-Trimethylpentane
Concen: 0.142 ppbv
RT: 7.307 min Scan# 1479
Delta R.T. 0.003 min
Lab File: VL041174.D
Acq: 25 Apr 2024 17:16

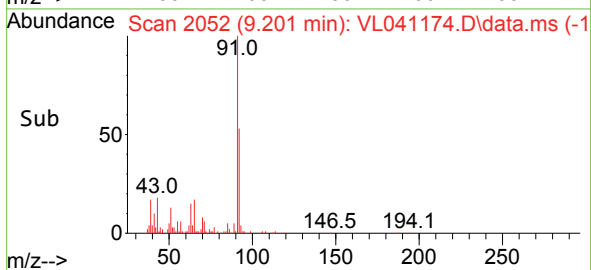
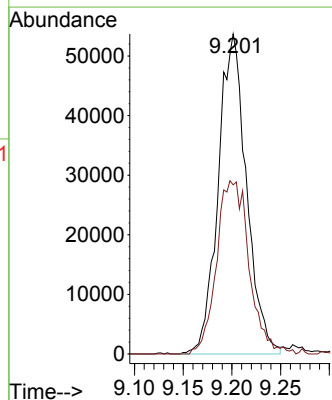
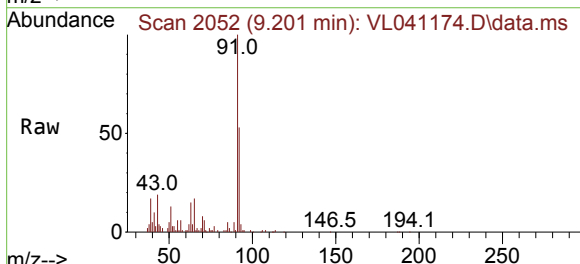
Instrument :
MSVOA_L
ClientSampleId :
OA1

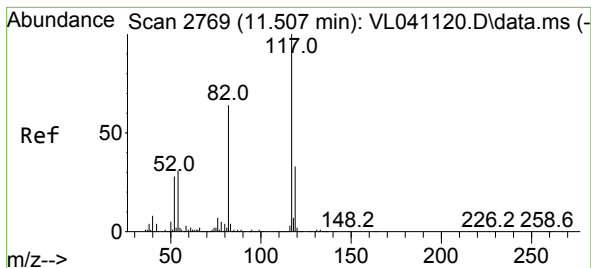
Tgt Ion: 57 Resp: 53115
Ion Ratio Lower Upper
57 100
41 65.6 28.2 42.2#
56 57.5 25.2 37.8#



#53
Toluene
Concen: 0.456 ppbv
RT: 9.201 min Scan# 2052
Delta R.T. 0.003 min
Lab File: VL041174.D
Acq: 25 Apr 2024 17:16

Tgt Ion: 91 Resp: 108463
Ion Ratio Lower Upper
91 100
92 62.9 49.0 73.4

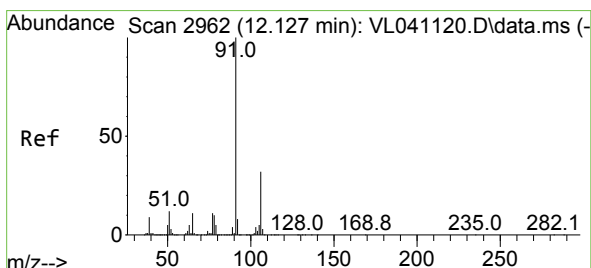
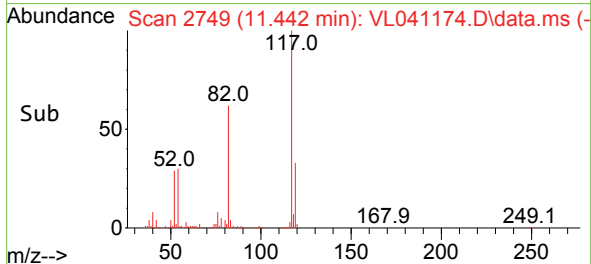
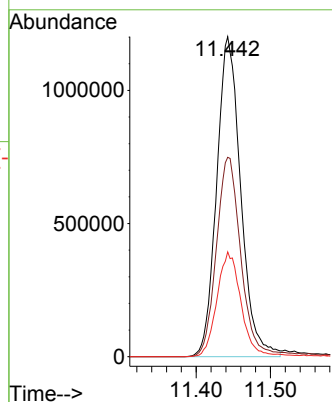
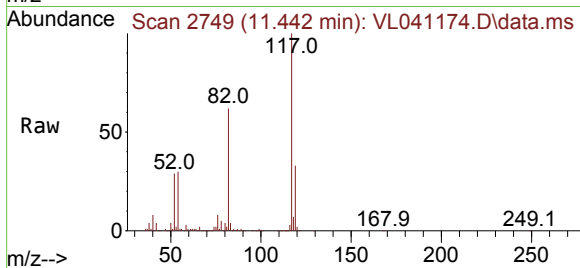




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.442 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL041174.D
Acq: 25 Apr 2024 17:16

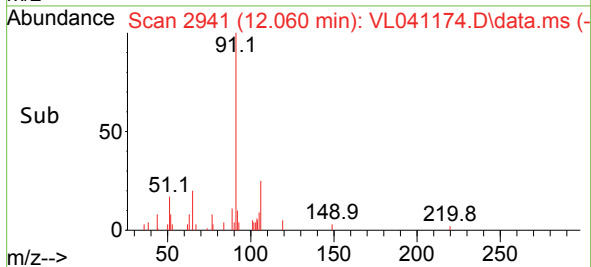
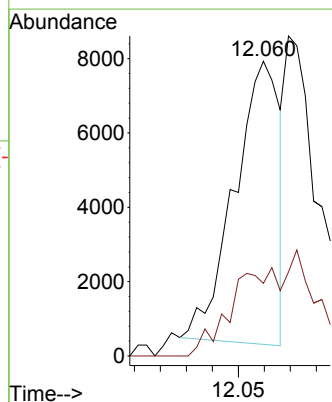
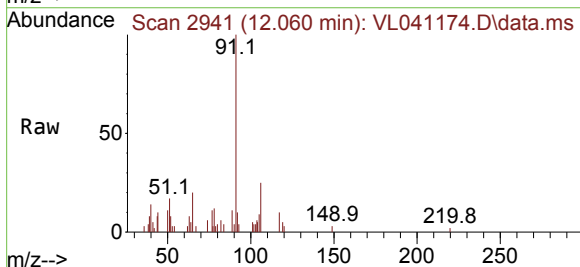
Instrument :
MSVOA_L
ClientSampleId :
OA1

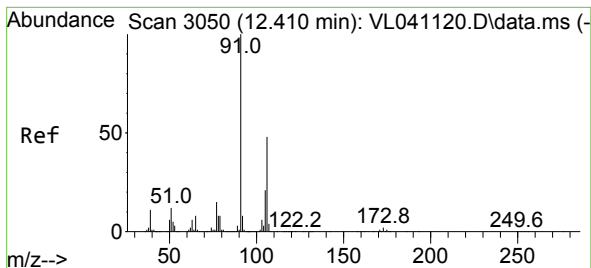
Tgt Ion:117 Resp: 2705266
Ion Ratio Lower Upper
117 100
82 65.5 51.0 76.6
119 33.6 25.2 37.8



#58
Ethyl Benzene
Concen: 0.031 ppbv
RT: 12.060 min Scan# 2941
Delta R.T. -0.003 min
Lab File: VL041174.D
Acq: 25 Apr 2024 17:16

Tgt Ion: 91 Resp: 9162
Ion Ratio Lower Upper
91 100
106 26.3 25.6 38.4





#59

m/p-Xylene

Concen: 0.281 ppbv

RT: 12.352 min Scan# 3050

Delta R.T. 0.003 min

Lab File: VL041174.D

Acq: 25 Apr 2024 17:16

Instrument :

MSVOA_L

ClientSampleId :

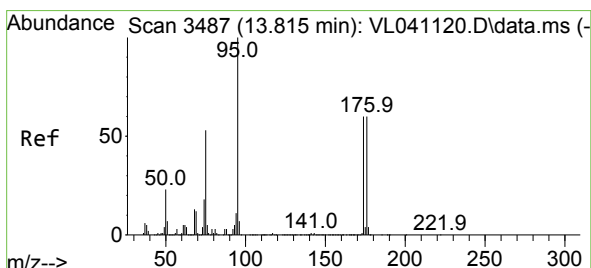
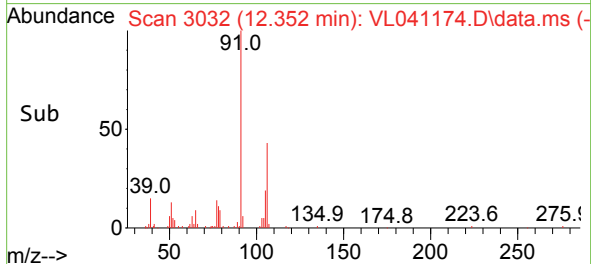
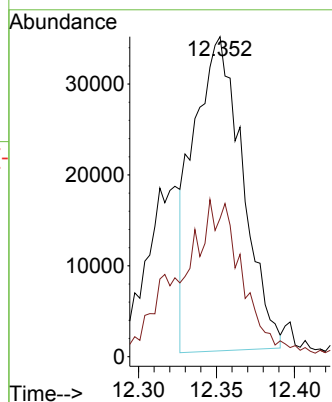
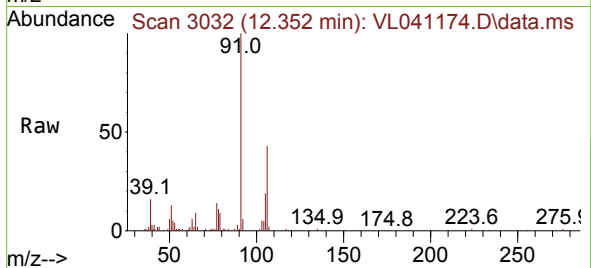
OA1

Tgt Ion: 91 Resp: 75293

Ion Ratio Lower Upper

91 100

106 66.5 35.4 53.2#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.760 ppbv

RT: 13.751 min Scan# 3467

Delta R.T. 0.003 min

Lab File: VL041174.D

Acq: 25 Apr 2024 17:16

Tgt Ion: 95 Resp: 2123195

Ion Ratio Lower Upper

95 100

174 62.3 49.3 73.9

175 4.7 3.6 5.4

