

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011624\
 Data File : VL040985.D
 Acq On : 16 Jan 2024 13:55
 Operator : SY/MD
 Sample : P1138-05DL2 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jan 17 00:25:32 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL122023AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Jan 17 00:20:56 2024
 Response via : Initial Calibration

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

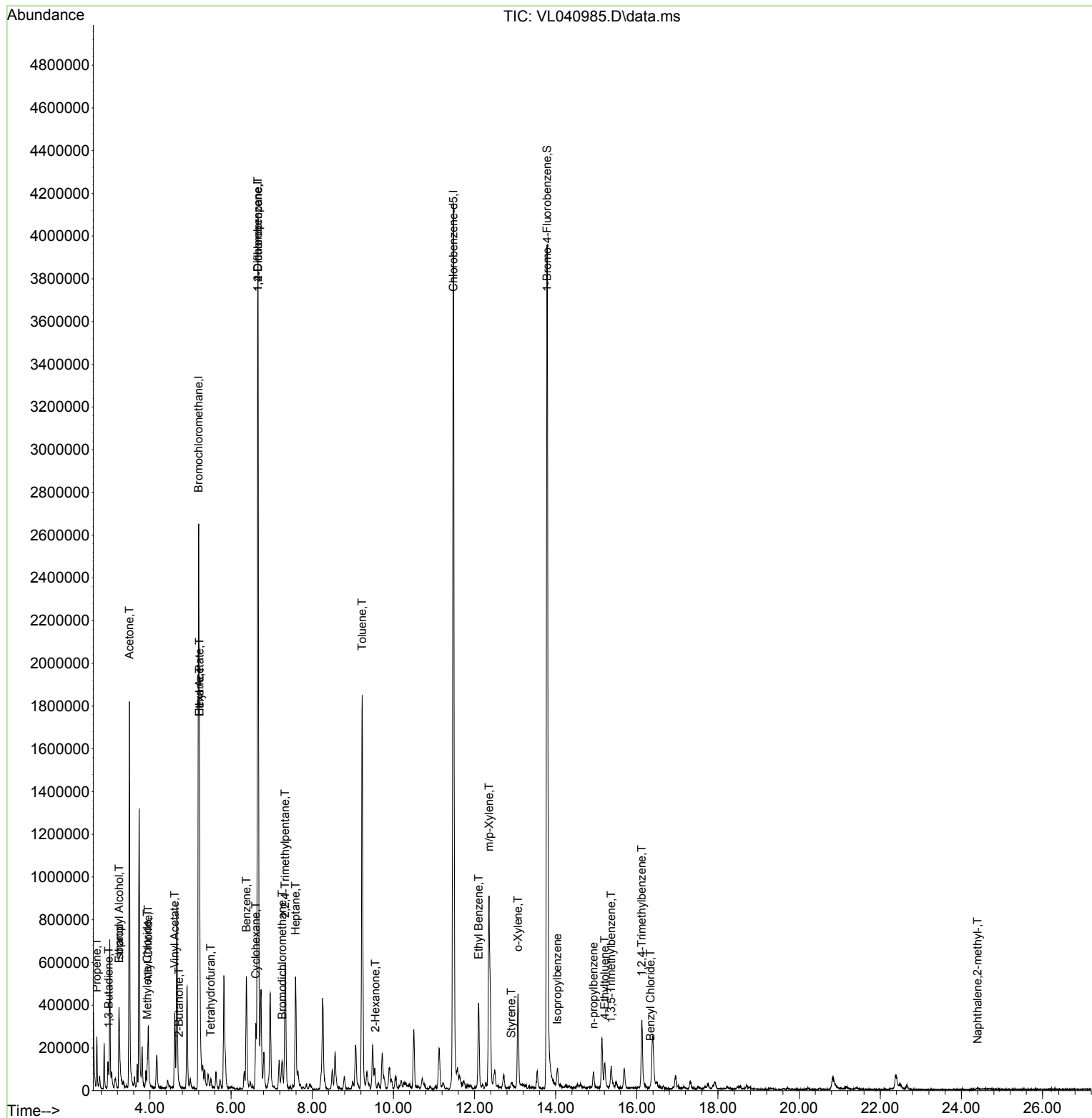
Internal Standards						
1) Bromochloromethane	5.198	49	1205359	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	3056687	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.478	117	2701897	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.789	95	2036497	10.233	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 102.300%	
Target Compounds						
					Qvalue	
9) Propene	2.690	41	90908	1.519	ppbv	97
10) Heptane	7.590	43	226813	1.525	ppbv	99
13) Ethanol	3.240	45	439042	29.078	ppbv	99
15) Acetone	3.494	43	631998	4.372	ppbv #	59
16) 1,3-Butadiene	2.983	39	18302	0.294	ppbv #	60
19) Isopropyl Alcohol	3.240	45	439042	5.820	ppbv #	95
20) Methylene Chloride	3.935	84	32686	0.634	ppbv	83
21) Allyl Chloride	3.957	41	40258	0.471	ppbv #	43
23) Vinyl Acetate	4.613	43	109091	0.684	ppbv #	1
25) Ethyl Acetate	5.221	43	260784	1.041	ppbv #	77
26) Hexane	5.221	57	369808	3.331	ppbv #	40
30) Cyclohexane	6.610	84	93983	1.015	ppbv	96
34) 2-Butanone	4.719	43	5214	0.032	ppbv	97
36) Benzene	6.378	78	427604	1.790	ppbv	94
39) 1,2-Dichloropropane	6.661	63	764873	8.146	ppbv #	24
41) Tetrahydrofuran	5.497	42	3214	0.033	ppbv #	49
42) Bromodichloromethane	7.262	83	8186	0.040	ppbv #	27
44) 2,2,4-Trimethylpentane	7.333	57	467249	1.151	ppbv #	83
51) 2-Hexanone	9.558	43	5452	0.031	ppbv #	30
53) Toluene	9.230	91	1347703	5.086	ppbv	99
58) Ethyl Benzene	12.101	91	357991	1.032	ppbv	94
59) m/p-Xylene	12.359	91	934423	3.166	ppbv #	100
60) o-Xylene	13.069	91	338049	1.215	ppbv	97
61) Styrene	12.908	104	5155	0.039	ppbv #	27
62) Isopropylbenzene	14.040	105	37930	0.092	ppbv #	49
64) n-propylbenzene	14.934	120	5985	0.058	ppbv #	1
66) Benzyl Chloride	16.336	91	620	0.026	ppbv #	66
72) 4-Ethyltoluene	15.207	105	96146	0.315	ppbv	94
73) 1,3,5-Trimethylbenzene	15.368	105	67066	0.255	ppbv	98
74) 1,2,4-Trimethylbenzene	16.121	105	261264	0.891	ppbv #	65
80) Naphthalene,2-methyl-	24.400	142	1082	0.042	ppbv #	1

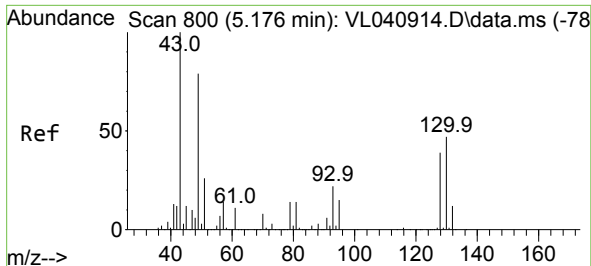
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VL040985.D
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Sample : P1138-05DL2 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
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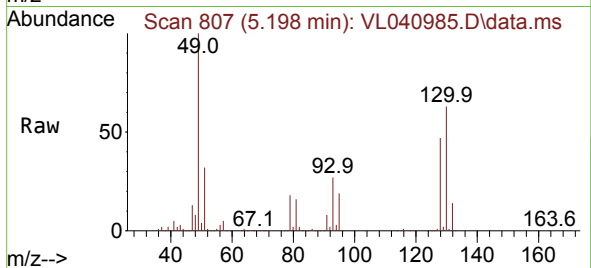
Quant Time: Jan 17 00:25:32 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL122023AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Jan 17 00:20:56 2024
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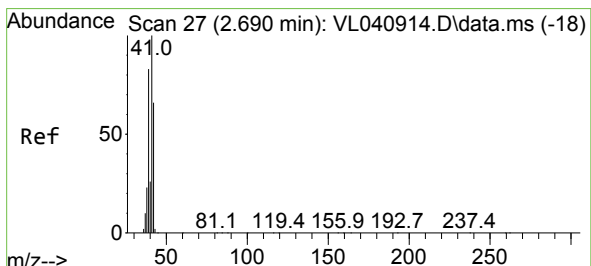
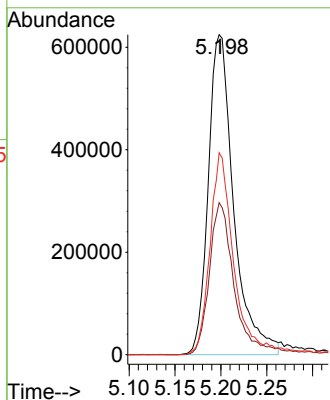
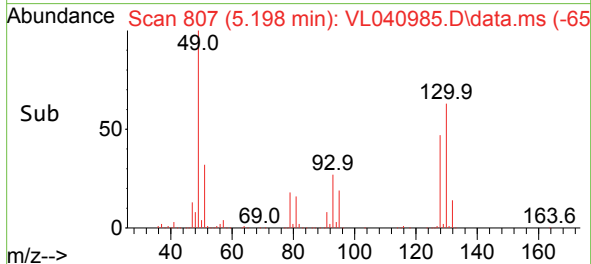


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.198 min Scan# 80
Delta R.T. 0.000 min
Lab File: VL040985.D
Acq: 16 Jan 2024 13:55

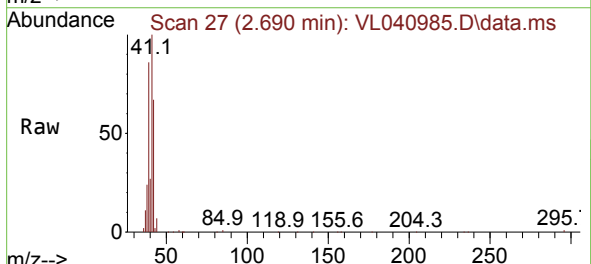
Instrument :
MSVOA_L
ClientSampleId :



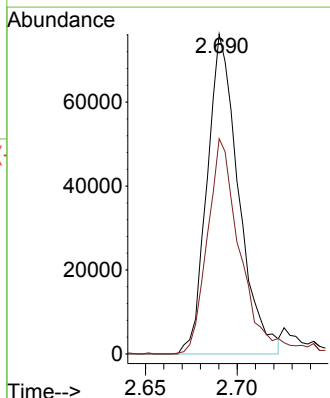
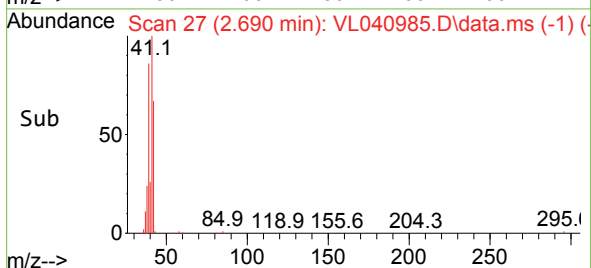
Tgt Ion: 49 Resp: 1205359
Ion Ratio Lower Upper
49 100
128 48.3 23.8 71.2
130 61.2 30.1 90.5

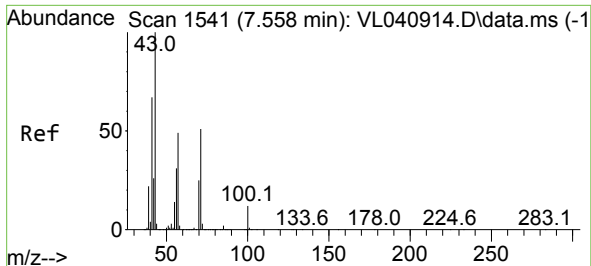


#9
Propene
Concen: 1.519 ppbv
RT: 2.690 min Scan# 27
Delta R.T. 0.003 min
Lab File: VL040985.D
Acq: 16 Jan 2024 13:55



Tgt Ion: 41 Resp: 90908
Ion Ratio Lower Upper
41 100
42 72.0 55.8 83.6

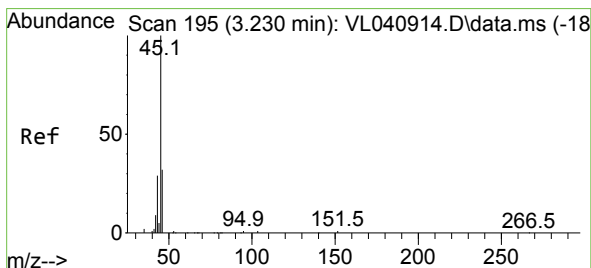
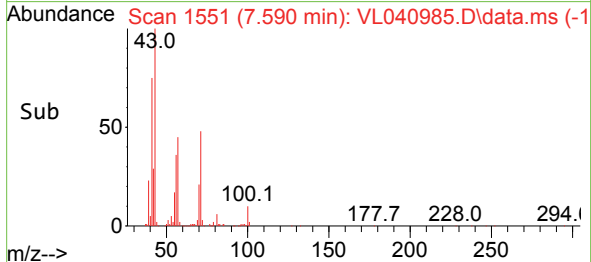
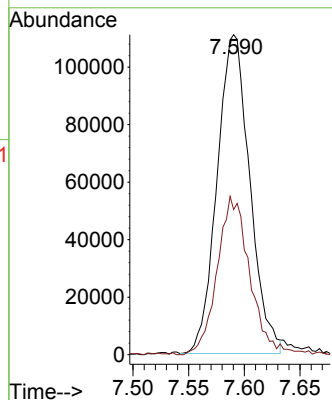
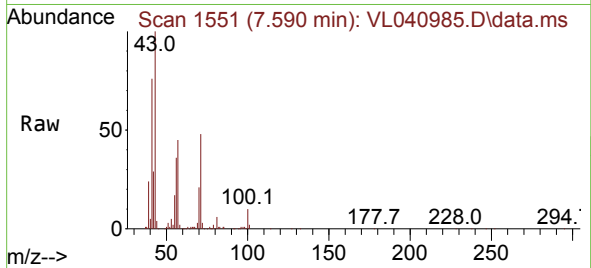




#10
Heptane
Concen: 1.525 ppbv
RT: 7.590 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL040985.D
Acq: 16 Jan 2024 13:55

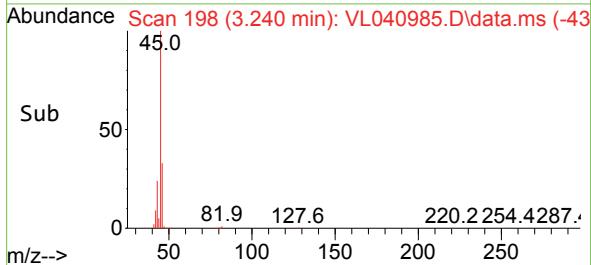
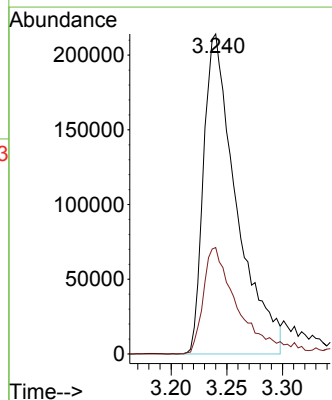
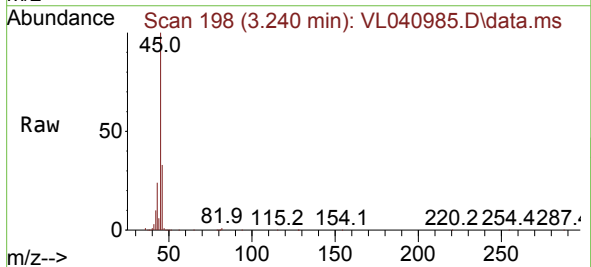
Instrument :
MSVOA_L
ClientSampleId :

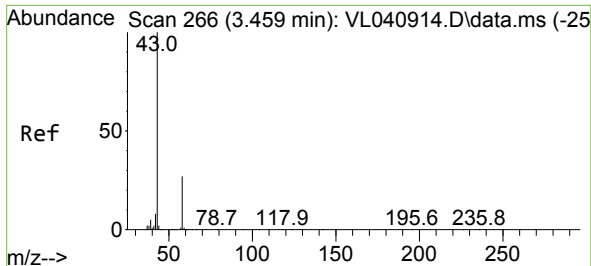
Tgt Ion: 43 Resp: 226813
Ion Ratio Lower Upper
43 100
57 49.7 39.3 58.9



#13
Ethanol
Concen: 29.078 ppbv
RT: 3.240 min Scan# 198
Delta R.T. -0.000 min
Lab File: VL040985.D
Acq: 16 Jan 2024 13:55

Tgt Ion: 45 Resp: 439042
Ion Ratio Lower Upper
45 100
46 36.9 15.0 60.0

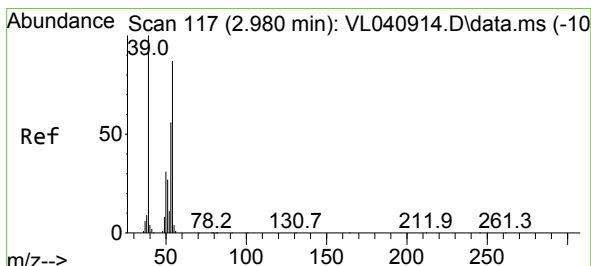
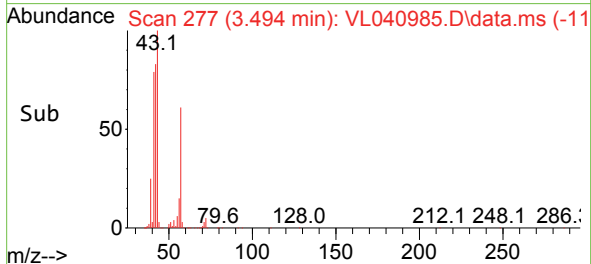
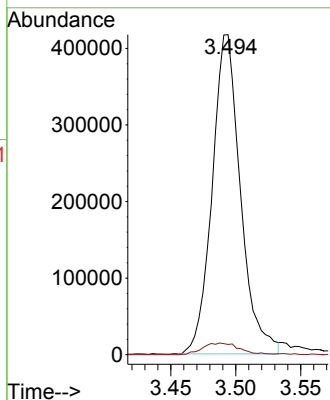
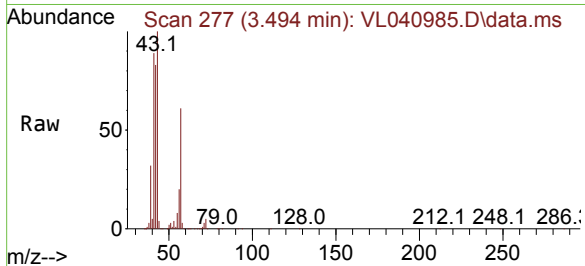




#15
Acetone
Concen: 4.372 ppbv
RT: 3.494 min Scan# 21
Delta R.T. 0.029 min
Lab File: VL040985.D
Acq: 16 Jan 2024 13:55

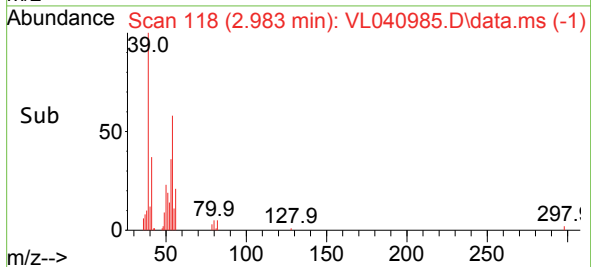
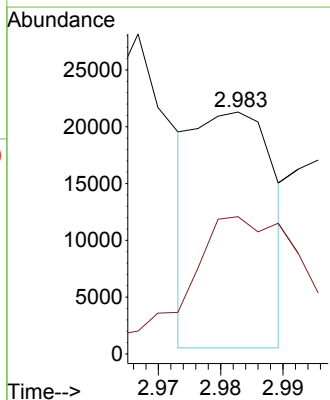
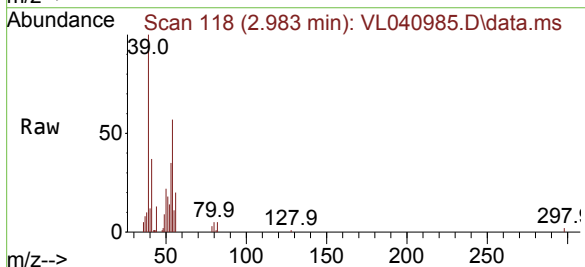
Instrument :
MSVOA_L
ClientSampleId :

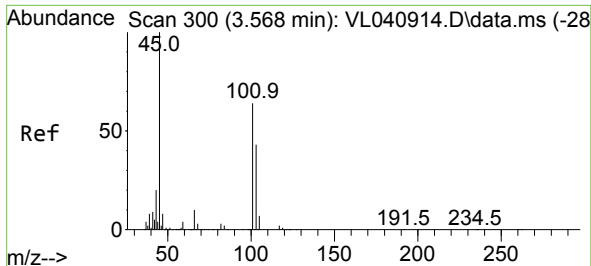
Tgt Ion: 43 Resp: 631998
Ion Ratio Lower Upper
43 100
58 5.0 20.6 30.8#



#16
1,3-Butadiene
Concen: 0.294 ppbv
RT: 2.983 min Scan# 118
Delta R.T. 0.003 min
Lab File: VL040985.D
Acq: 16 Jan 2024 13:55

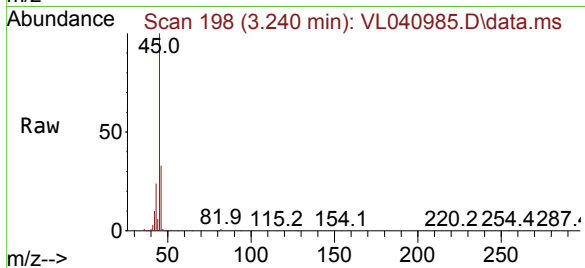
Tgt Ion: 39 Resp: 18302
Ion Ratio Lower Upper
39 100
54 114.5 63.8 95.6#



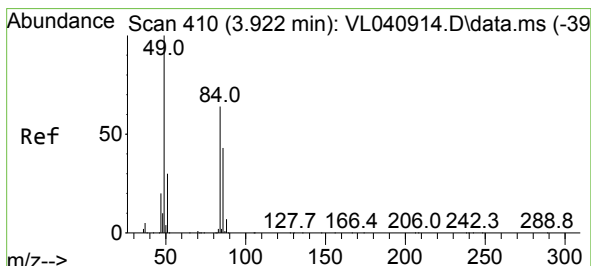
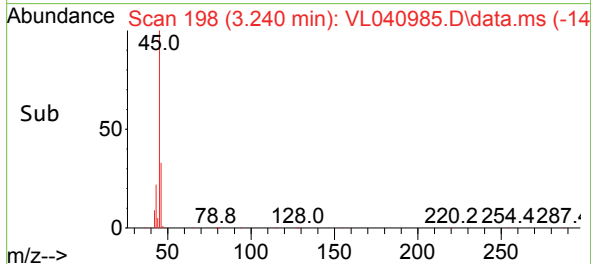
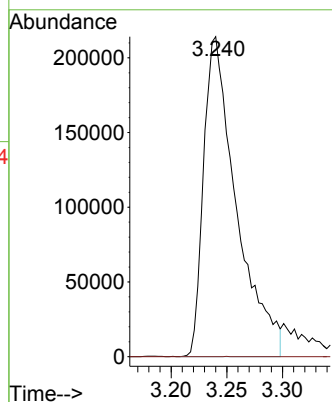


#19
Isopropyl Alcohol
Concen: 5.820 ppbv
RT: 3.240 min Scan# 198
Delta R.T. -0.334 min
Lab File: VL040985.D
Acq: 16 Jan 2024 13:55

Instrument :
MSVOA_L
ClientSampleId :

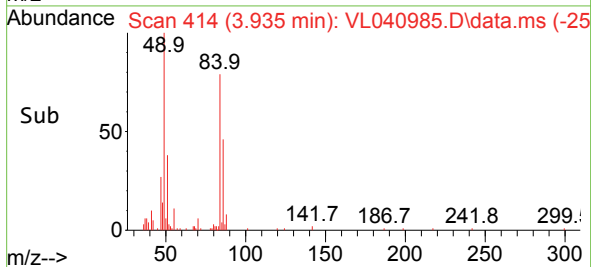
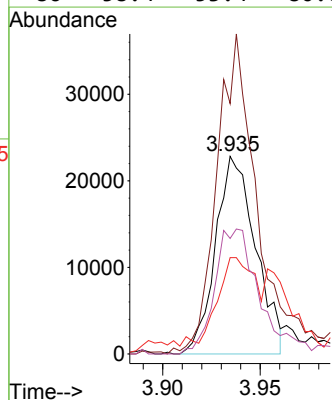
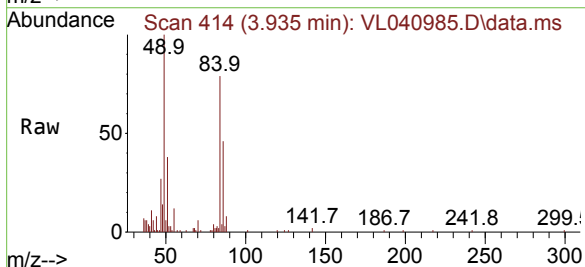


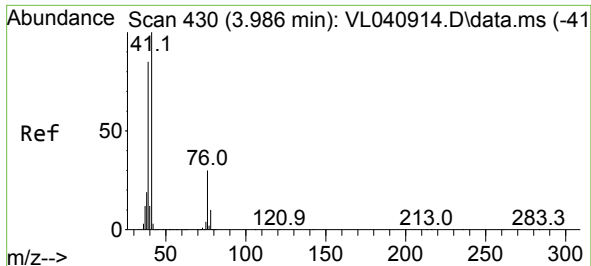
Tgt Ion: 45 Resp: 439042
Ion Ratio Lower Upper
45 100
58 0.0 1.5 2.3#



#20
Methylene Chloride
Concen: 0.634 ppbv
RT: 3.935 min Scan# 414
Delta R.T. -0.000 min
Lab File: VL040985.D
Acq: 16 Jan 2024 13:55

Tgt Ion: 84 Resp: 32686
Ion Ratio Lower Upper
84 100
49 125.1 124.6 187.0
51 44.8 37.2 55.8
86 58.4 53.4 80.0

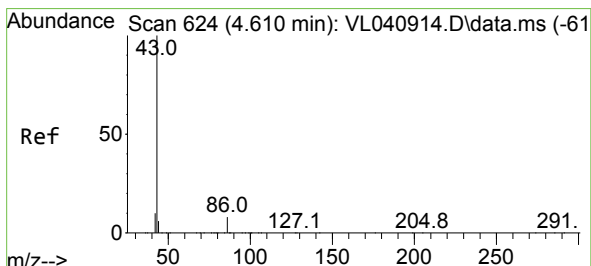
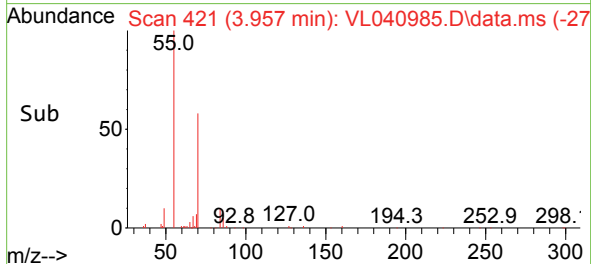
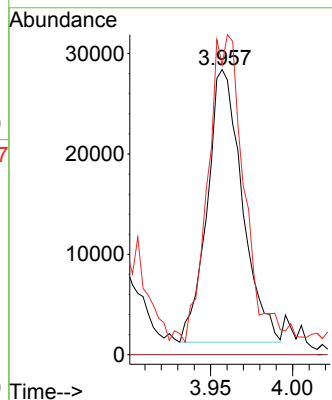
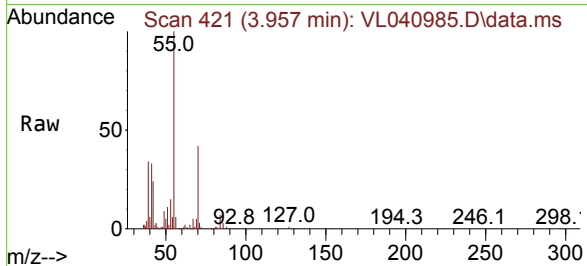




#21
 Allyl Chloride
 Concen: 0.471 ppbv
 RT: 3.957 min Scan# 41
 Delta R.T. -0.039 min
 Lab File: VL040985.D
 Acq: 16 Jan 2024 13:55

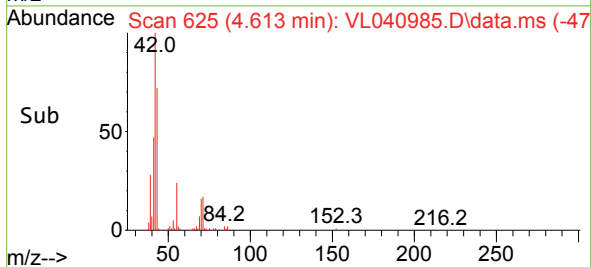
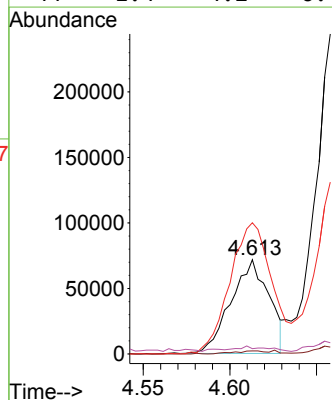
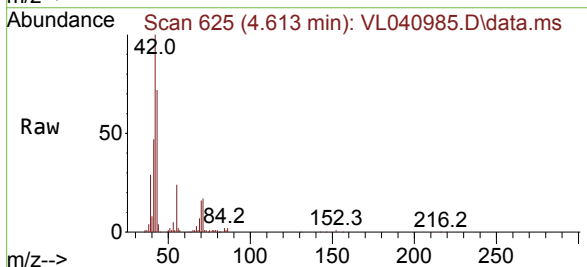
Instrument :
 MSVOA_L
 ClientSampleId :

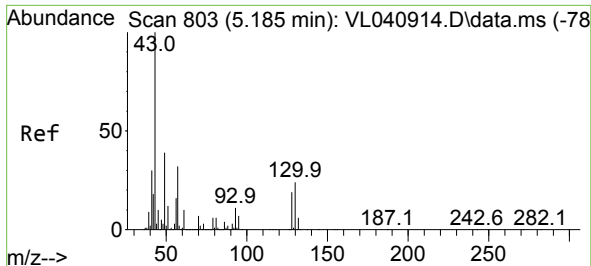
Tgt Ion: 41 Resp: 40258
 Ion Ratio Lower Upper
 41 100
 76 2.3 23.9 35.9#
 39 136.3 66.5 99.7#



#23
 Vinyl Acetate
 Concen: 0.684 ppbv
 RT: 4.613 min Scan# 625
 Delta R.T. -0.016 min
 Lab File: VL040985.D
 Acq: 16 Jan 2024 13:55

Tgt Ion: 43 Resp: 109091
 Ion Ratio Lower Upper
 43 100
 86 3.2 5.5 8.3#
 42 139.9 8.4 12.6#
 44 1.4 4.2 6.4#





#25

Ethyl Acetate

Concen: 1.041 ppbv

RT: 5.221 min Scan# 814

Delta R.T. 0.013 min

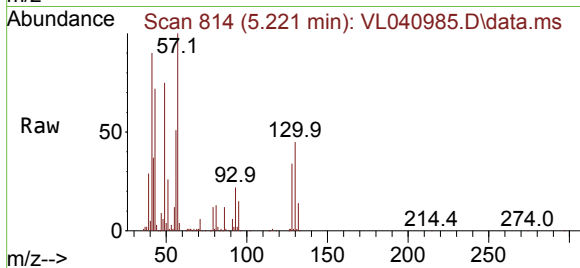
Lab File: VL040985.D

Acq: 16 Jan 2024 13:55

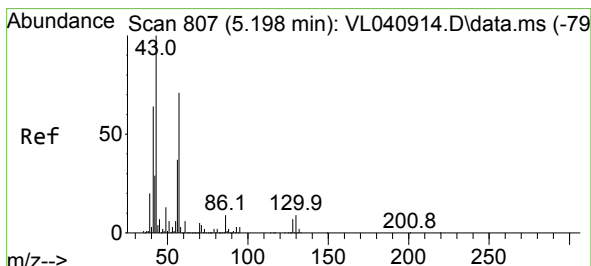
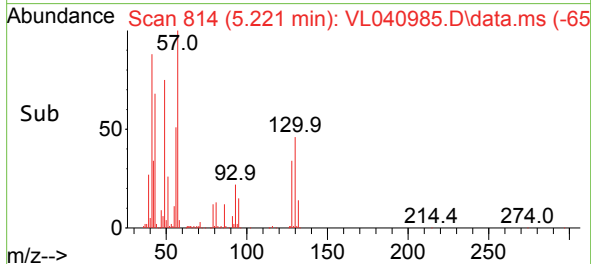
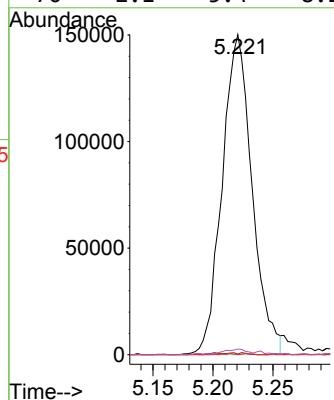
Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:	43	Resp:	260784
Ion	Ratio	Lower	Upper
43	100		
45	0.6	8.2	12.2#
61	0.1	7.6	11.4#
70	2.1	5.4	8.2#



#26

Hexane

Concen: 3.331 ppbv

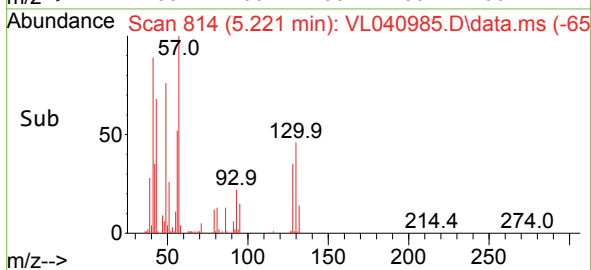
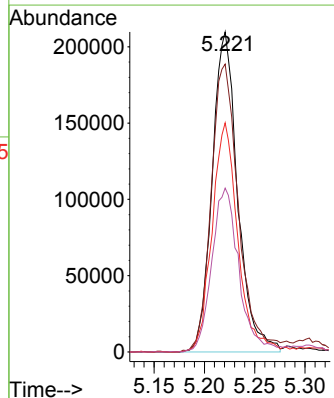
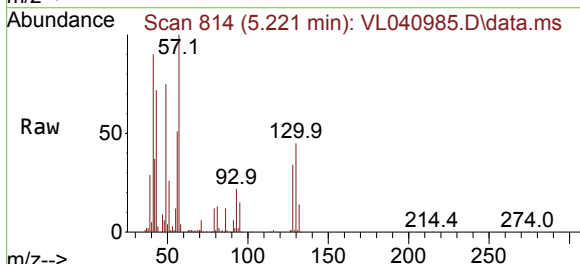
RT: 5.221 min Scan# 814

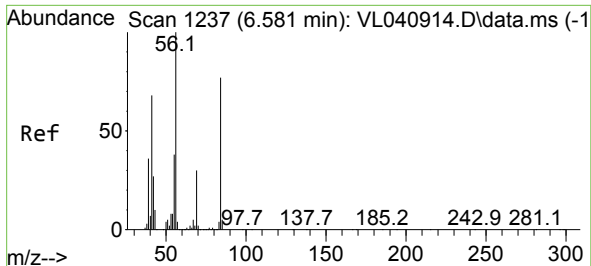
Delta R.T. 0.003 min

Lab File: VL040985.D

Acq: 16 Jan 2024 13:55

Tgt Ion:	57	Resp:	369808
Ion	Ratio	Lower	Upper
57	100		
41	97.6	75.2	112.8
43	74.4	188.0	282.0#
56	54.5	42.3	63.5

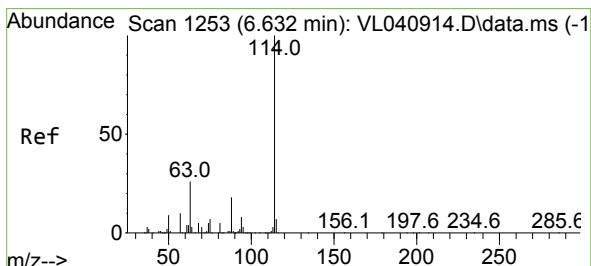
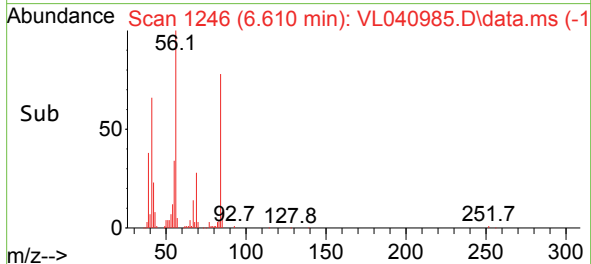
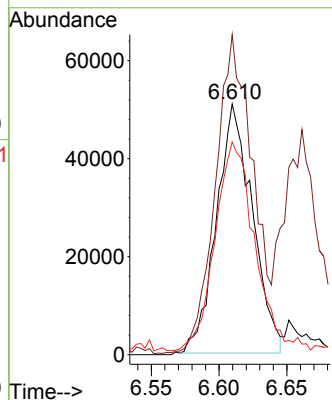
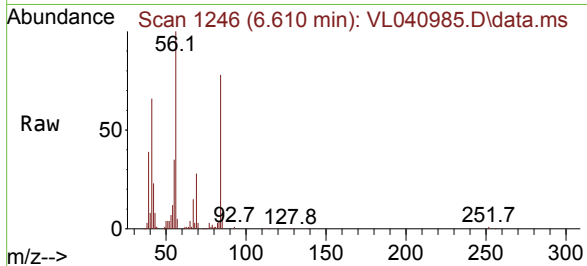




#30
Cyclohexane
Concen: 1.015 ppbv
RT: 6.610 min Scan# 1246
Delta R.T. -0.000 min
Lab File: VL040985.D
Acq: 16 Jan 2024 13:55

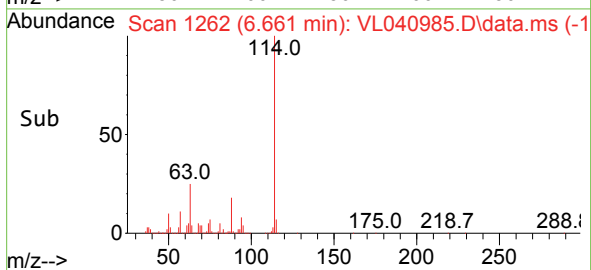
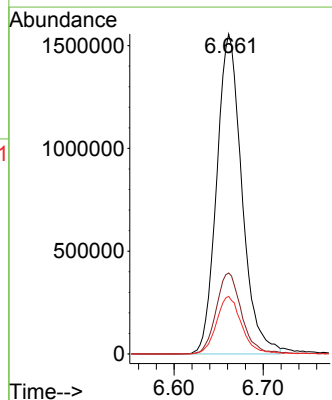
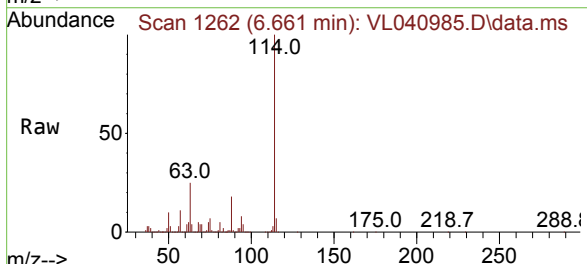
Instrument :
MSVOA_L
ClientSampleId :

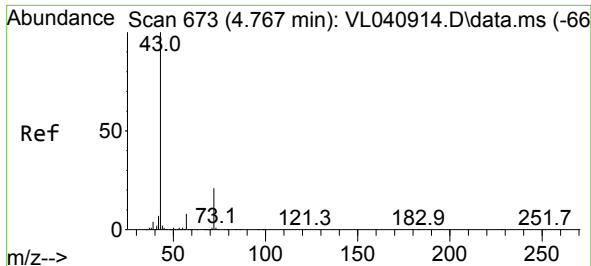
Tgt Ion: 84 Resp: 93983
Ion Ratio Lower Upper
84 100
56 138.3 111.4 167.2
41 95.4 70.0 105.0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.661 min Scan# 1262
Delta R.T. -0.000 min
Lab File: VL040985.D
Acq: 16 Jan 2024 13:55

Tgt Ion: 114 Resp: 3056687
Ion Ratio Lower Upper
114 100
63 26.0 21.0 31.6
88 18.1 14.3 21.5

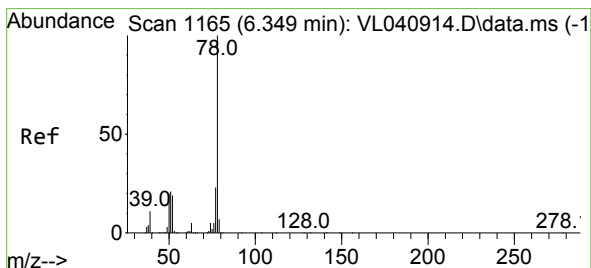
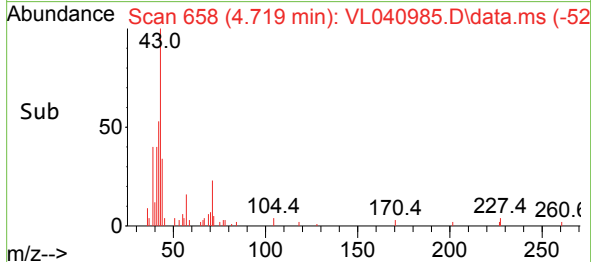
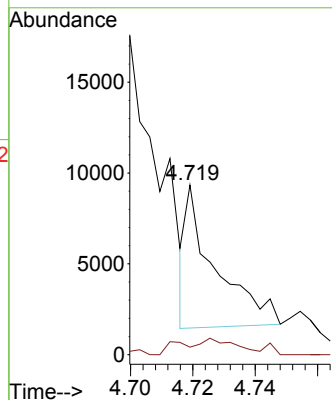
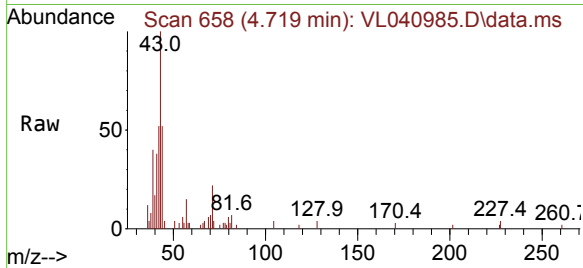




#34
2-Butanone
Concen: 0.032 ppbv
RT: 4.719 min Scan# 61
Delta R.T. -0.068 min
Lab File: VL040985.D
Acq: 16 Jan 2024 13:55

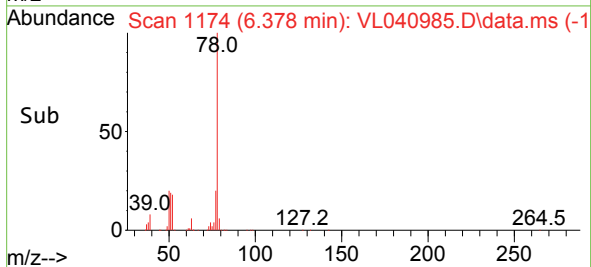
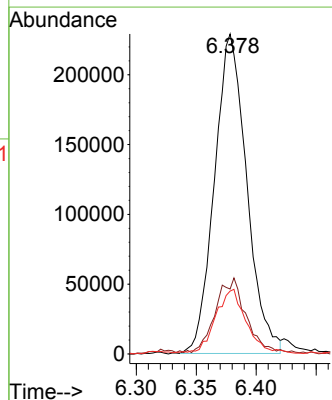
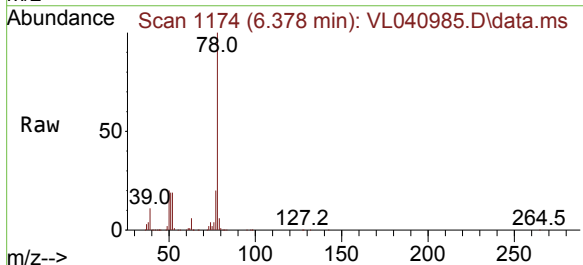
Instrument :
MSVOA_L
ClientSampleId :

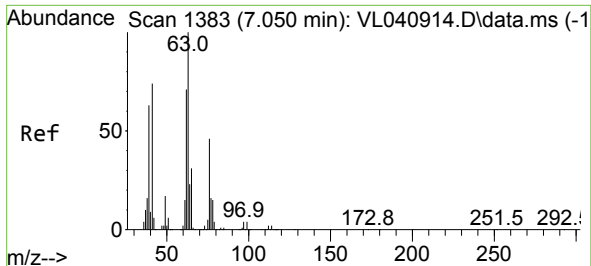
Tgt Ion: 43 Resp: 5214
Ion Ratio Lower Upper
43 100
72 22.9 17.2 25.8



#36
Benzene
Concen: 1.790 ppbv
RT: 6.378 min Scan# 1174
Delta R.T. 0.003 min
Lab File: VL040985.D
Acq: 16 Jan 2024 13:55

Tgt Ion: 78 Resp: 427604
Ion Ratio Lower Upper
78 100
77 19.3 18.4 27.6
50 18.6 16.0 24.0





#39

1,2-Dichloropropane

Concen: 8.146 ppbv

RT: 6.661 min Scan# 11

Delta R.T. -0.418 min

Lab File: VL040985.D

Acq: 16 Jan 2024 13:55

Instrument :

MSVOA_L

ClientSampleId :

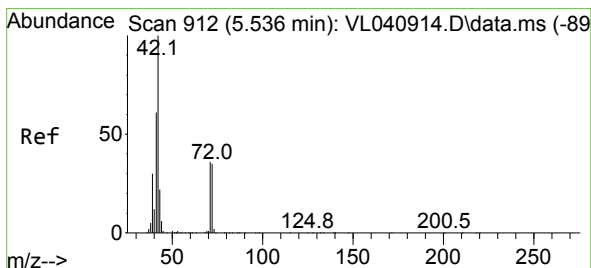
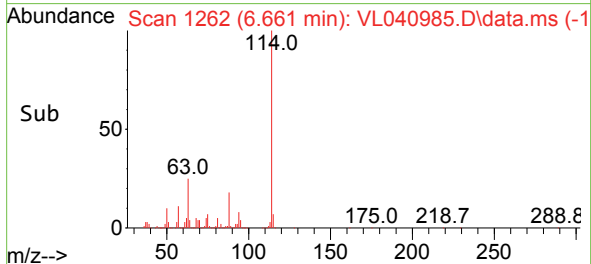
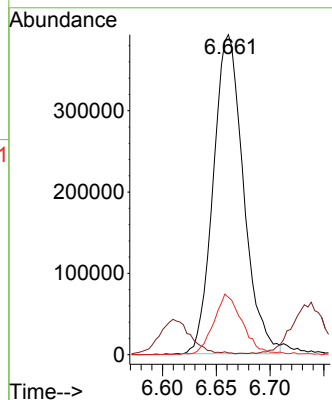
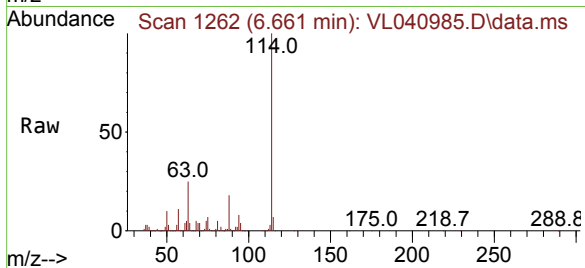
Tgt Ion: 63 Resp: 764873

Ion Ratio Lower Upper

63 100

41 0.0 59.0 88.6#

62 17.9 56.6 85.0#



#41

Tetrahydrofuran

Concen: 0.033 ppbv

RT: 5.497 min Scan# 900

Delta R.T. -0.064 min

Lab File: VL040985.D

Acq: 16 Jan 2024 13:55

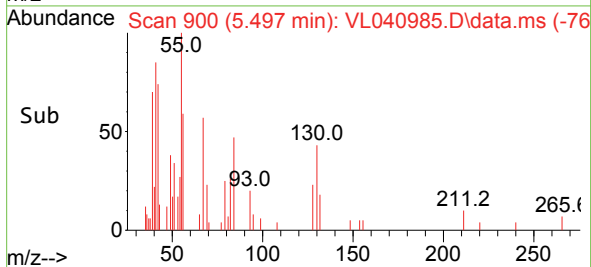
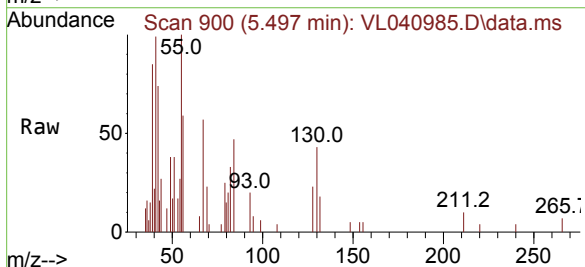
Tgt Ion: 42 Resp: 3214

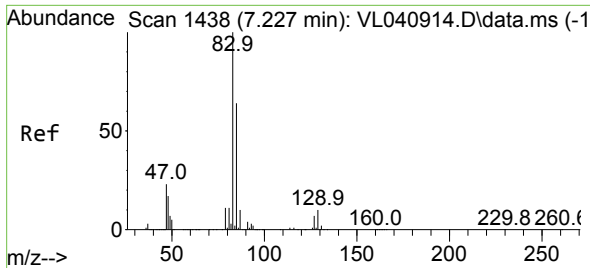
Ion Ratio Lower Upper

42 100

72 12.4 29.6 44.4#

71 0.0 29.1 43.7#

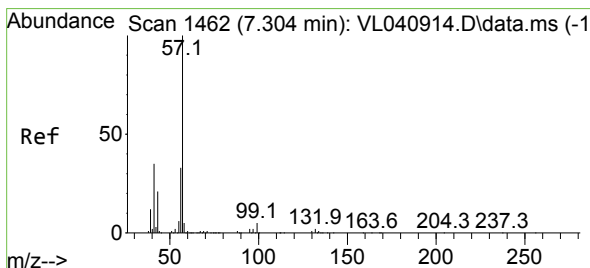
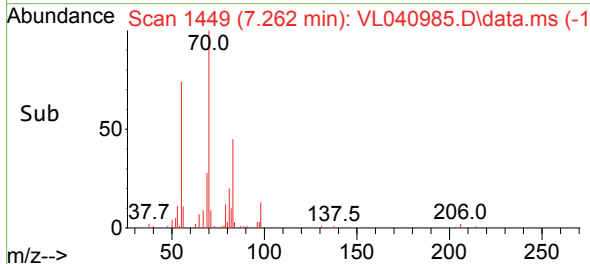
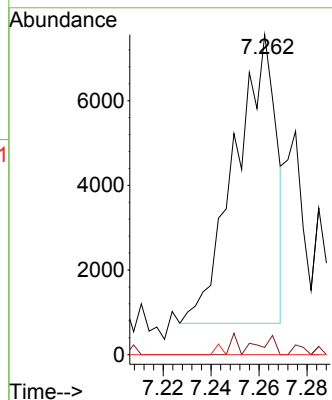
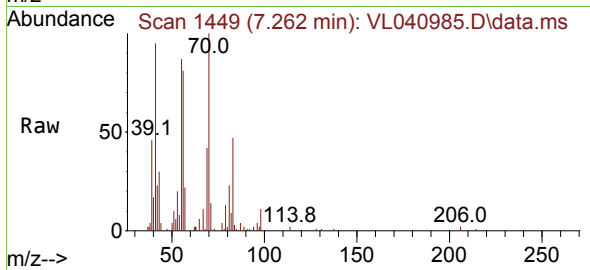




#42
Bromodichloromethane
Concen: 0.040 ppbv
RT: 7.262 min Scan# 1449
Delta R.T. 0.006 min
Lab File: VL040985.D
Acq: 16 Jan 2024 13:55

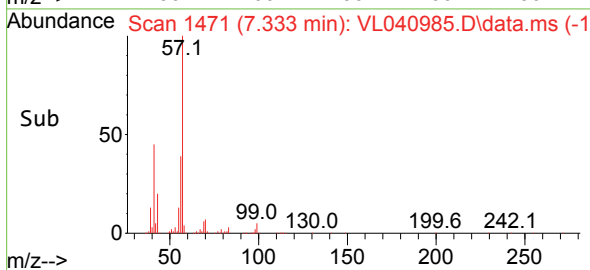
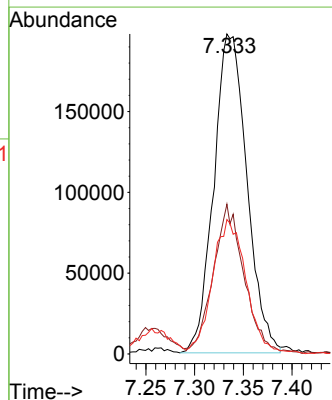
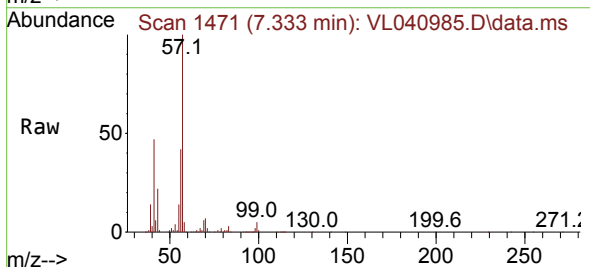
Instrument :
MSVOA_L
ClientSampleId :

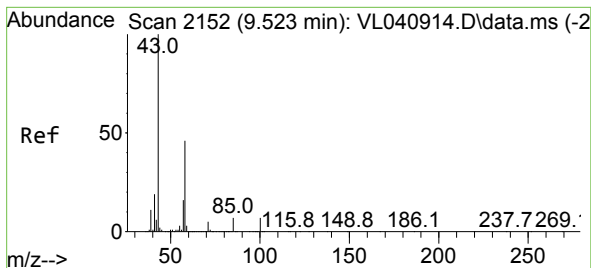
Tgt Ion: 83 Resp: 8186
Ion Ratio Lower Upper
83 100
85 2.5 51.4 77.0#
127 0.0 5.9 8.9#



#44
2,2,4-Trimethylpentane
Concen: 1.151 ppbv
RT: 7.333 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VL040985.D
Acq: 16 Jan 2024 13:55

Tgt Ion: 57 Resp: 467249
Ion Ratio Lower Upper
57 100
41 43.5 28.2 42.4#
56 42.5 25.3 37.9#





#51

2-Hexanone

Concen: 0.031 ppbv

RT: 9.558 min Scan# 2152

Delta R.T. -0.000 min

Lab File: VL040985.D

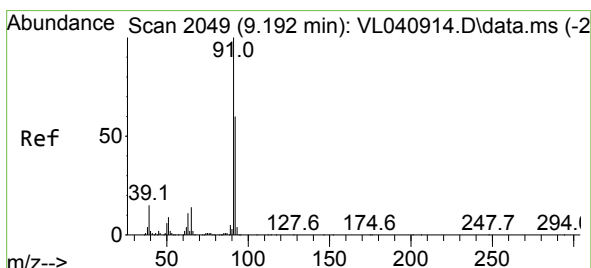
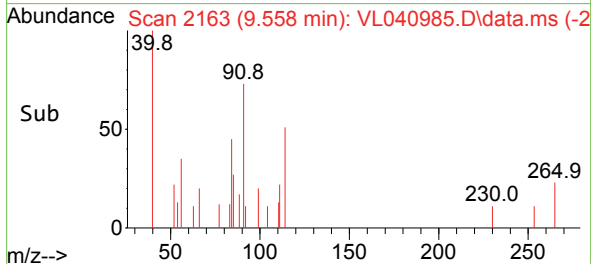
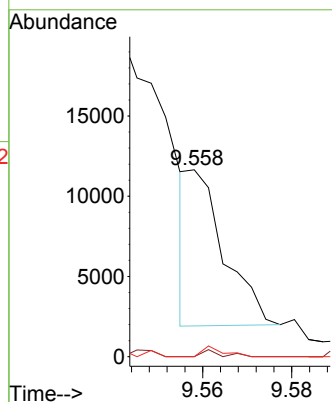
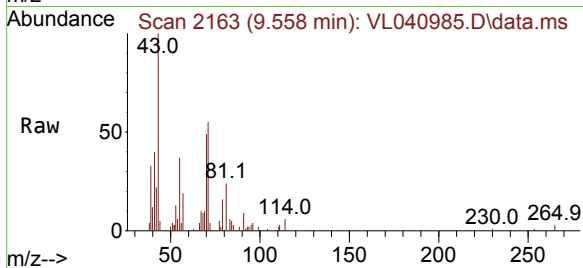
Acq: 16 Jan 2024 13:55

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 43	Resp: 5452
Ion Ratio	Lower Upper
43	100
58	0.0 37.3 55.9#
98	8.8 0.2 0.2#



#53

Toluene

Concen: 5.086 ppbv

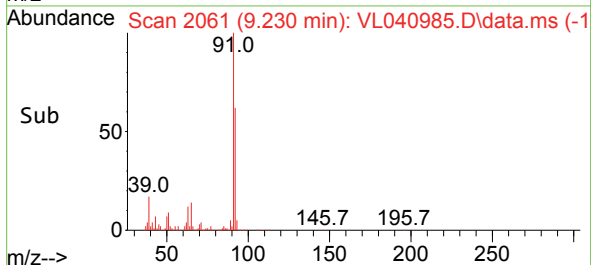
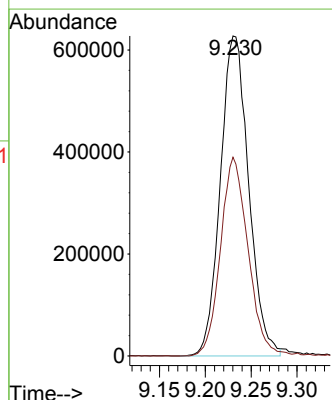
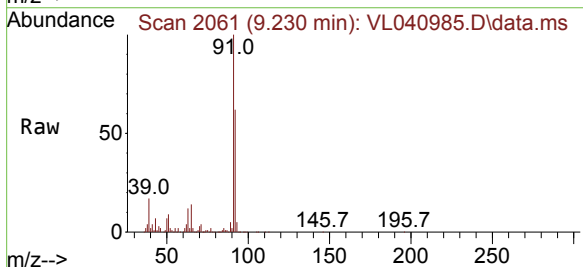
RT: 9.230 min Scan# 2061

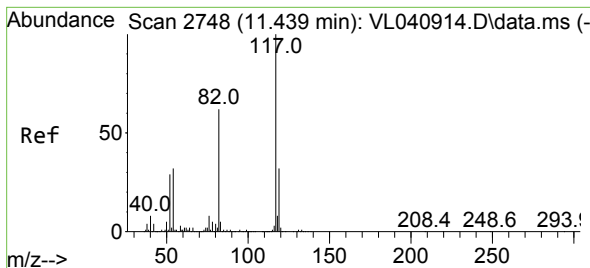
Delta R.T. -0.000 min

Lab File: VL040985.D

Acq: 16 Jan 2024 13:55

Tgt Ion: 91	Resp: 1347703
Ion Ratio	Lower Upper
91	100
92	60.8 49.2 73.8





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.478 min Scan# 21

Delta R.T. -0.000 min

Lab File: VL040985.D

Acq: 16 Jan 2024 13:55

Instrument :

MSVOA_L

ClientSampleId :

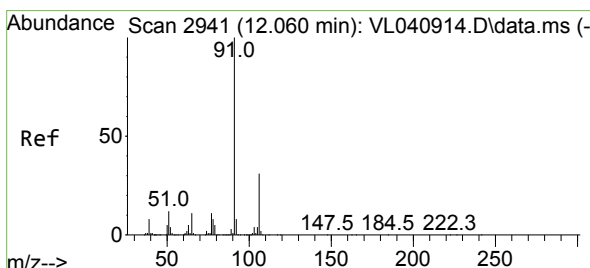
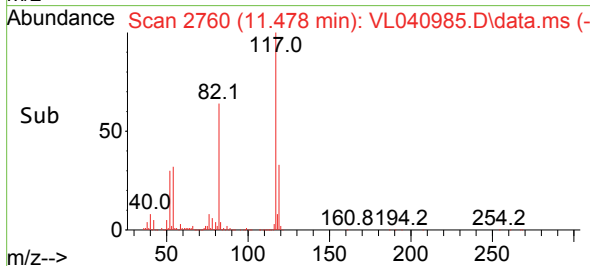
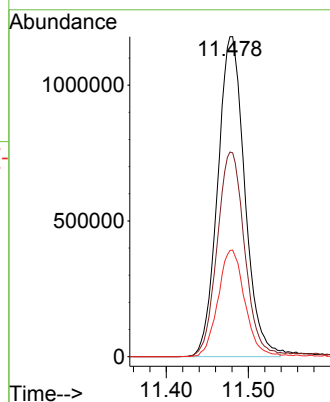
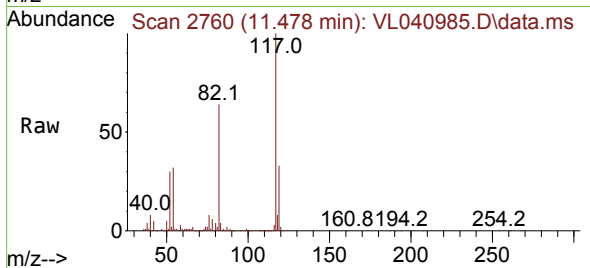
Tgt Ion:117 Resp: 2701897

Ion Ratio Lower Upper

117 100

82 67.0 49.6 74.4

119 33.3 23.4 35.0



#58

Ethyl Benzene

Concen: 1.032 ppbv

RT: 12.101 min Scan# 2954

Delta R.T. 0.003 min

Lab File: VL040985.D

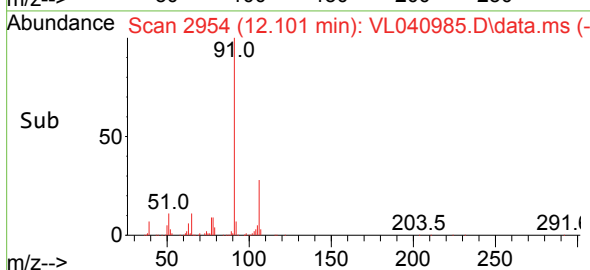
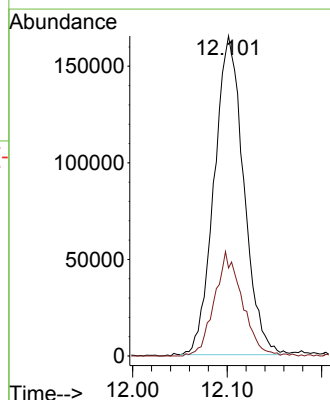
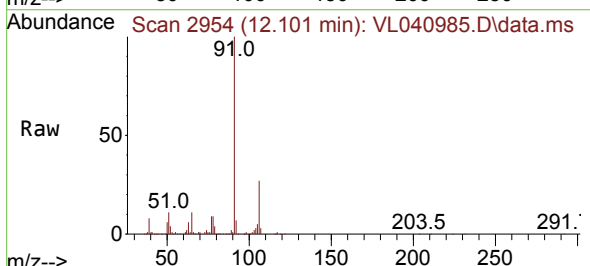
Acq: 16 Jan 2024 13:55

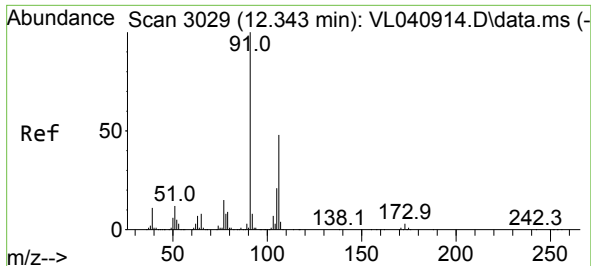
Tgt Ion: 91 Resp: 357991

Ion Ratio Lower Upper

91 100

106 27.6 24.9 37.3





#59

m/p-Xylene

Concen: 3.166 ppbv

RT: 12.359 min Scan# 3029

Delta R.T. -0.026 min

Lab File: VL040985.D

Acq: 16 Jan 2024 13:55

Instrument :

MSVOA_L

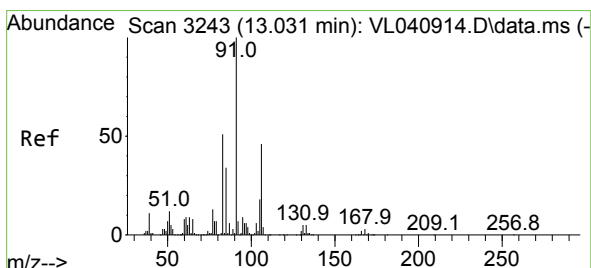
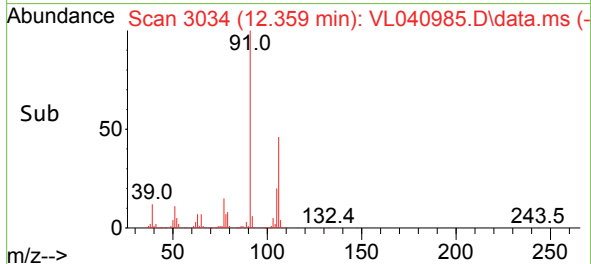
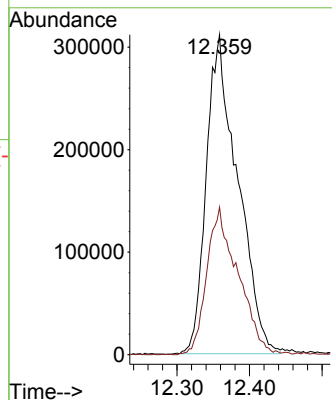
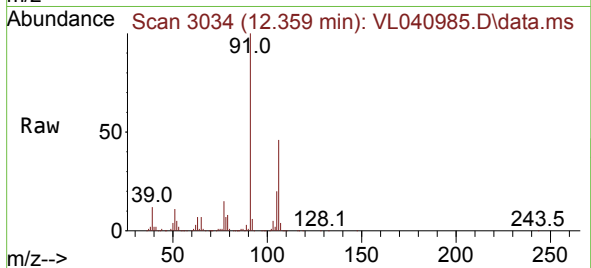
ClientSampleId :

Tgt Ion: 91 Resp: 934423

Ion Ratio Lower Upper

91 100

106 46.3 0.0 0.0#



#60

o-Xylene

Concen: 1.215 ppbv

RT: 13.069 min Scan# 3255

Delta R.T. -0.003 min

Lab File: VL040985.D

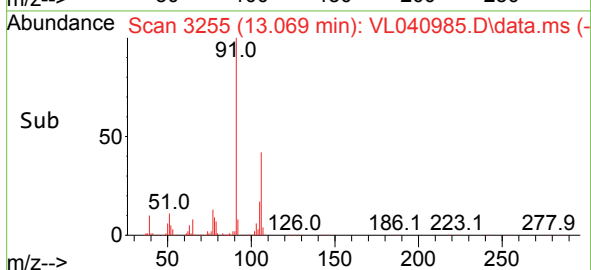
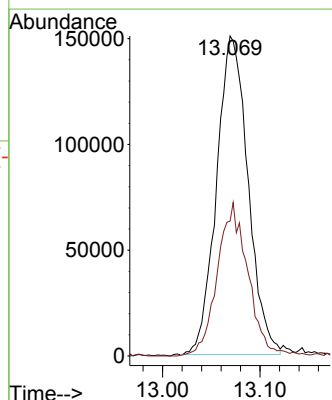
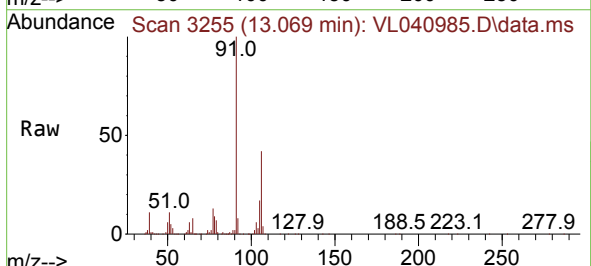
Acq: 16 Jan 2024 13:55

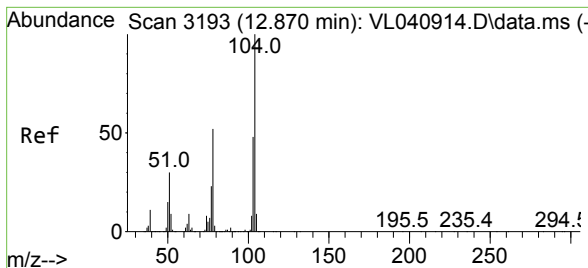
Tgt Ion: 91 Resp: 338049

Ion Ratio Lower Upper

91 100

106 46.9 22.6 67.7





#61

Styrene

Concen: 0.039 ppbv

RT: 12.908 min Scan# 31

Delta R.T. -0.003 min

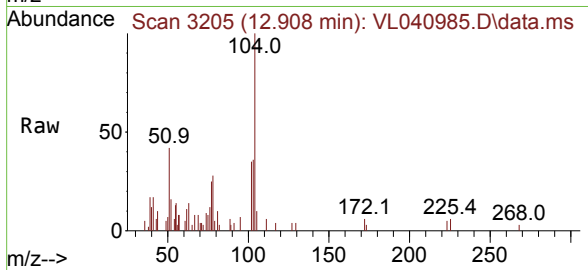
Lab File: VL040985.D

Acq: 16 Jan 2024 13:55

Instrument :

MSVOA_L

ClientSampleId :



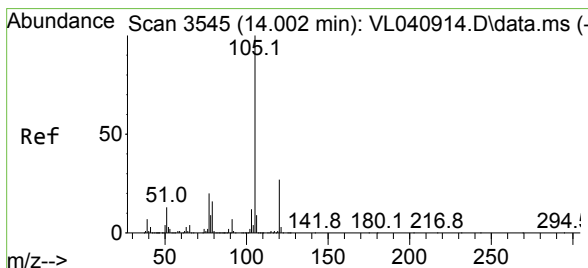
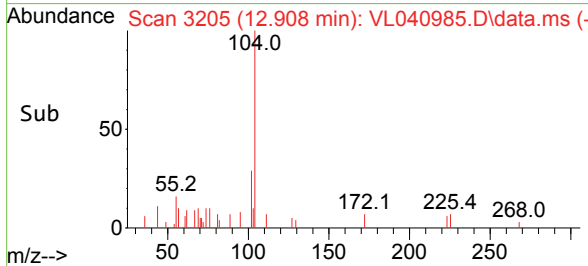
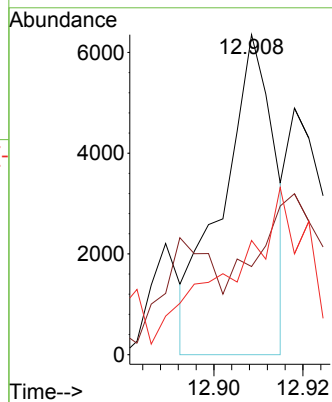
Tgt Ion:104 Resp: 5155

Ion Ratio Lower Upper

104 100

78 0.0 43.0 64.4#

103 0.0 37.6 56.4#



#62

Isopropylbenzene

Concen: 0.092 ppbv

RT: 14.040 min Scan# 3557

Delta R.T. -0.000 min

Lab File: VL040985.D

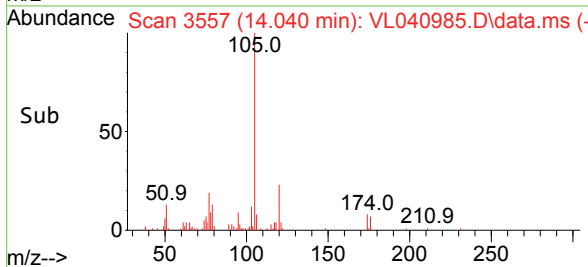
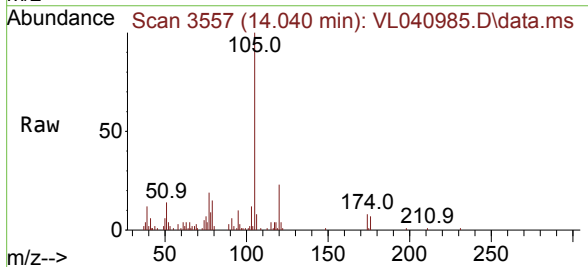
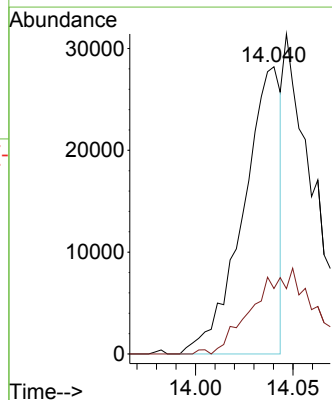
Acq: 16 Jan 2024 13:55

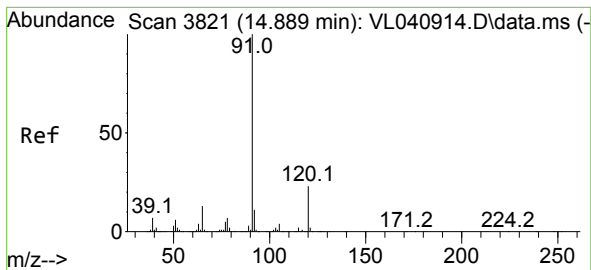
Tgt Ion:105 Resp: 37930

Ion Ratio Lower Upper

105 100

120 0.0 20.7 31.1#





#64

n-propylbenzene

Concen: 0.058 ppbv

RT: 14.934 min Scan# 3835

Delta R.T. 0.003 min

Lab File: VL040985.D

Acq: 16 Jan 2024 13:55

Instrument :

MSVOA_L

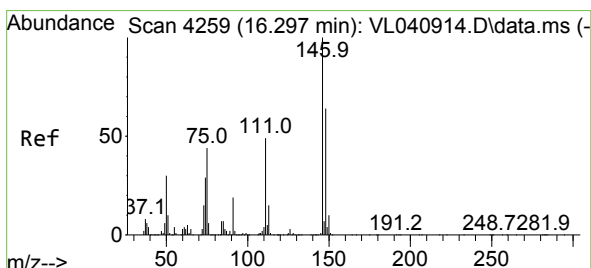
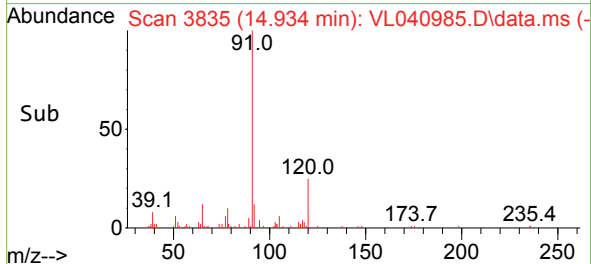
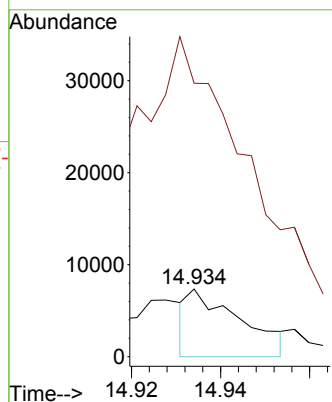
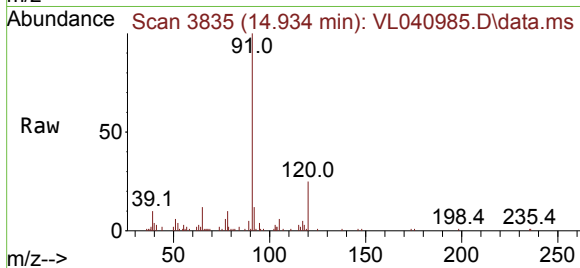
ClientSampleId :

Tgt Ion:120 Resp: 5985

Ion Ratio Lower Upper

120 100

91 1388.5 381.9 572.9#



#66

Benzyl Chloride

Concen: 0.026 ppbv

RT: 16.336 min Scan# 4271

Delta R.T. -0.003 min

Lab File: VL040985.D

Acq: 16 Jan 2024 13:55

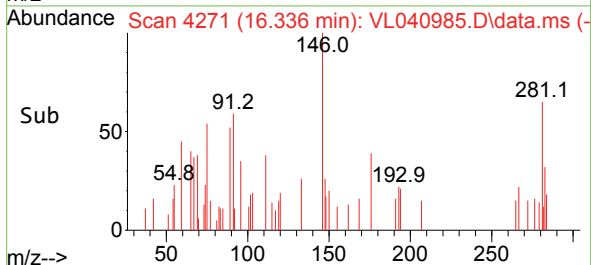
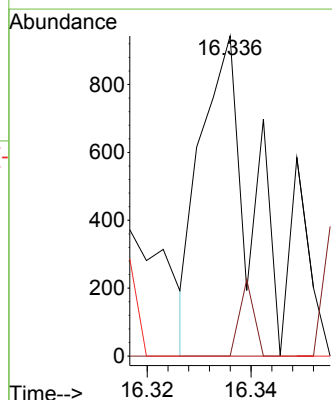
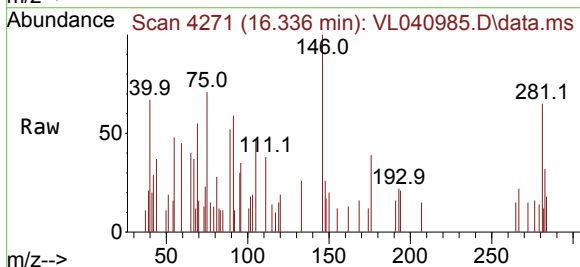
Tgt Ion: 91 Resp: 620

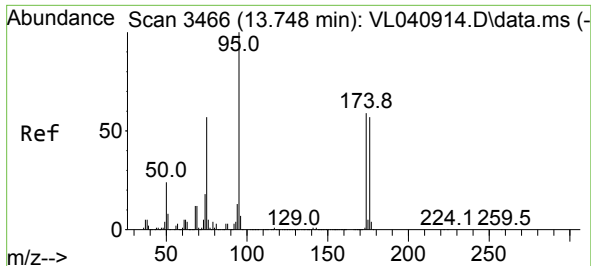
Ion Ratio Lower Upper

91 100

126 0.0 14.1 21.1#

128 0.0 4.6 6.8#

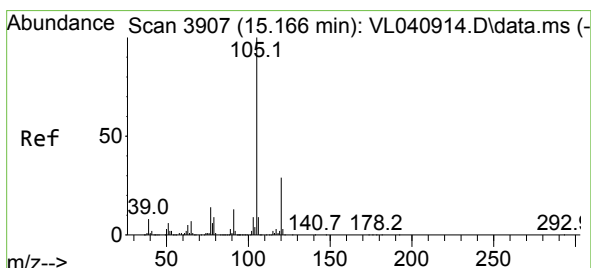
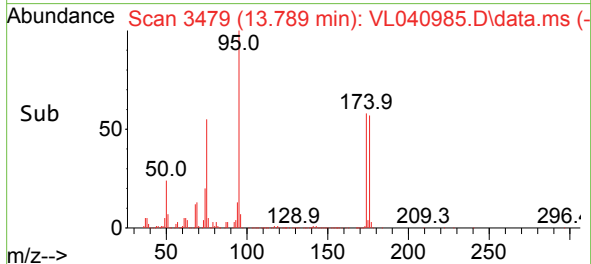
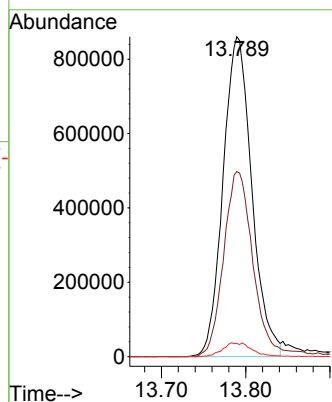
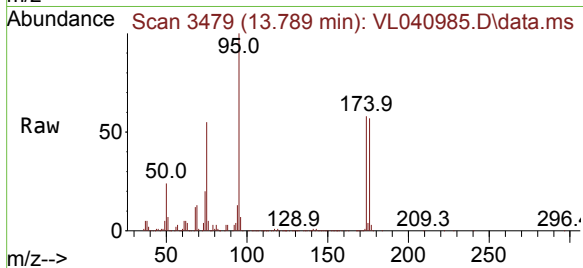




#68
1-Bromo-4-Fluorobenzene
Concen: 10.233 ppbv
RT: 13.789 min Scan# 3466
Delta R.T. -0.000 min
Lab File: VL040985.D
Acq: 16 Jan 2024 13:55

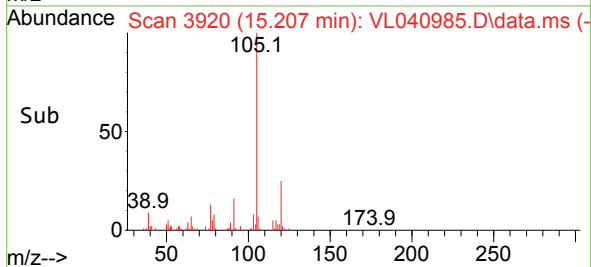
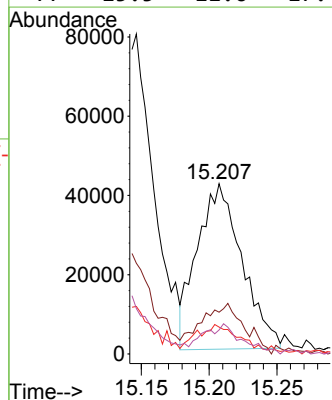
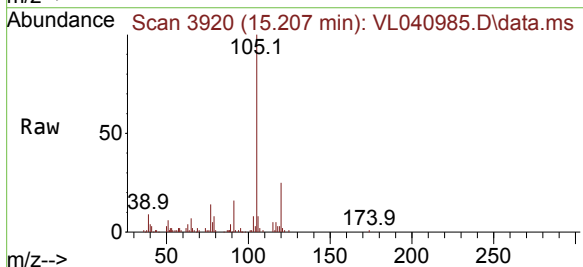
Instrument :
MSVOA_L
ClientSampleId :

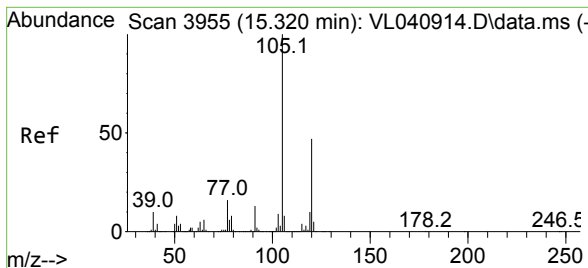
Tgt Ion: 95 Resp: 2036497
Ion Ratio Lower Upper
95 100
174 61.2 48.0 72.0
175 4.5 3.7 5.5



#72
4-Ethyltoluene
Concen: 0.315 ppbv
RT: 15.207 min Scan# 3920
Delta R.T. 0.003 min
Lab File: VL040985.D
Acq: 16 Jan 2024 13:55

Tgt Ion: 105 Resp: 96146
Ion Ratio Lower Upper
105 100
120 33.6 23.8 35.8
91 15.8 10.9 16.3
77 15.5 11.6 17.4





#73

1,3,5-Trimethylbenzene

Concen: 0.255 ppbv

RT: 15.368 min Scan# 3955

Delta R.T. 0.006 min

Lab File: VL040985.D

Acq: 16 Jan 2024 13:55

Instrument :

MSVOA_L

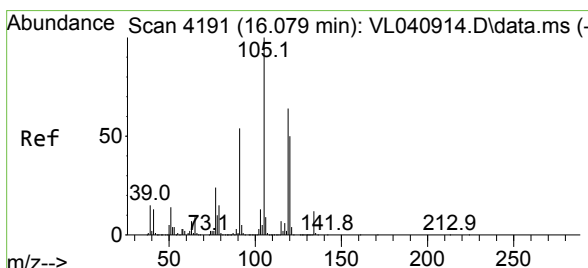
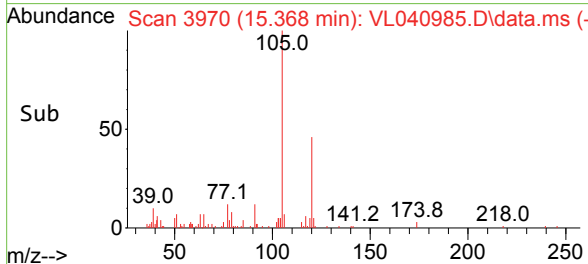
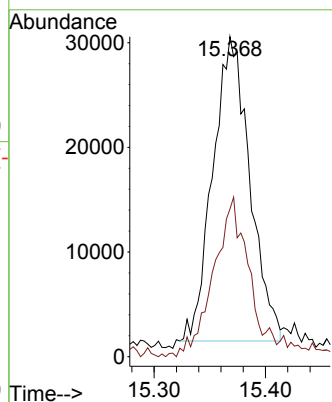
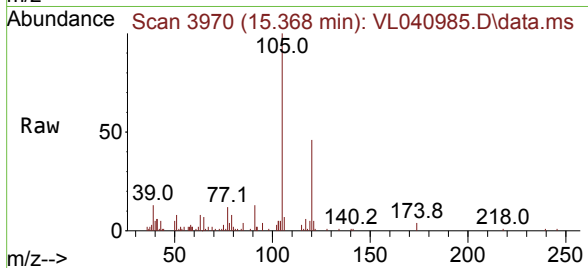
ClientSampleId :

Tgt Ion:105 Resp: 67066

Ion Ratio Lower Upper

105 100

120 45.7 37.8 56.8



#74

1,2,4-Trimethylbenzene

Concen: 0.891 ppbv

RT: 16.121 min Scan# 4204

Delta R.T. -0.000 min

Lab File: VL040985.D

Acq: 16 Jan 2024 13:55

Tgt Ion:105 Resp: 261264

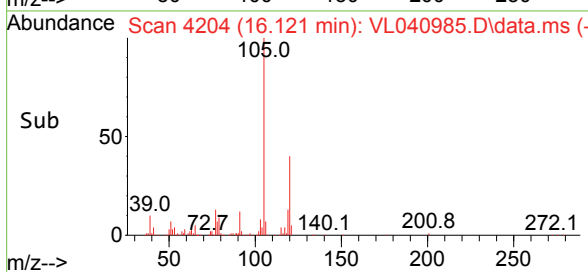
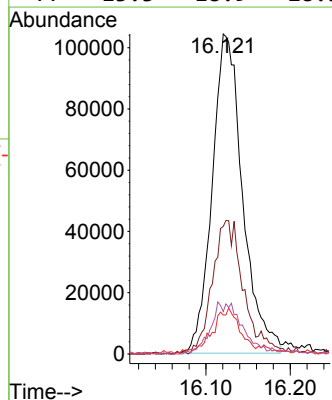
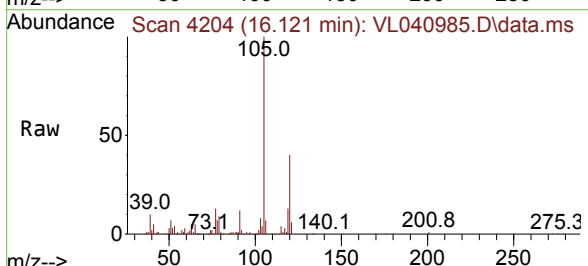
Ion Ratio Lower Upper

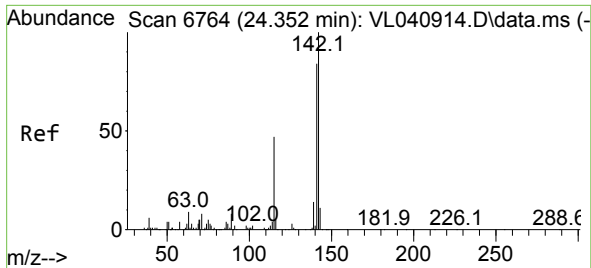
105 100

120 39.7 40.2 60.4#

91 11.8 43.0 64.6#

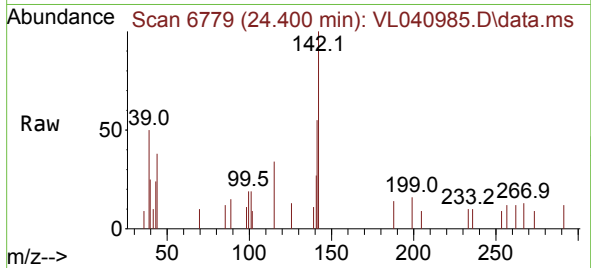
77 13.3 18.9 28.3#





#80
 Naphthalene, 2-methyl-
 Concen: 0.042 ppbv
 RT: 24.400 min Scan# 61
 Delta R.T. 0.010 min
 Lab File: VL040985.D
 Acq: 16 Jan 2024 13:55

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion: 142 Resp: 1082
 Ion Ratio Lower Upper
 142 100
 141 247.5 68.5 102.7#
 115 0.0 34.5 51.7#

