

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020724\
 Data File : VL041040.D
 Acq On : 7 Feb 2024 14:41
 Operator : SY/MD
 Sample : P1393-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA-1

Quant Time: Feb 08 02:44:05 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL012324AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Feb 08 02:04:13 2024
 Response via : Initial Calibration

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

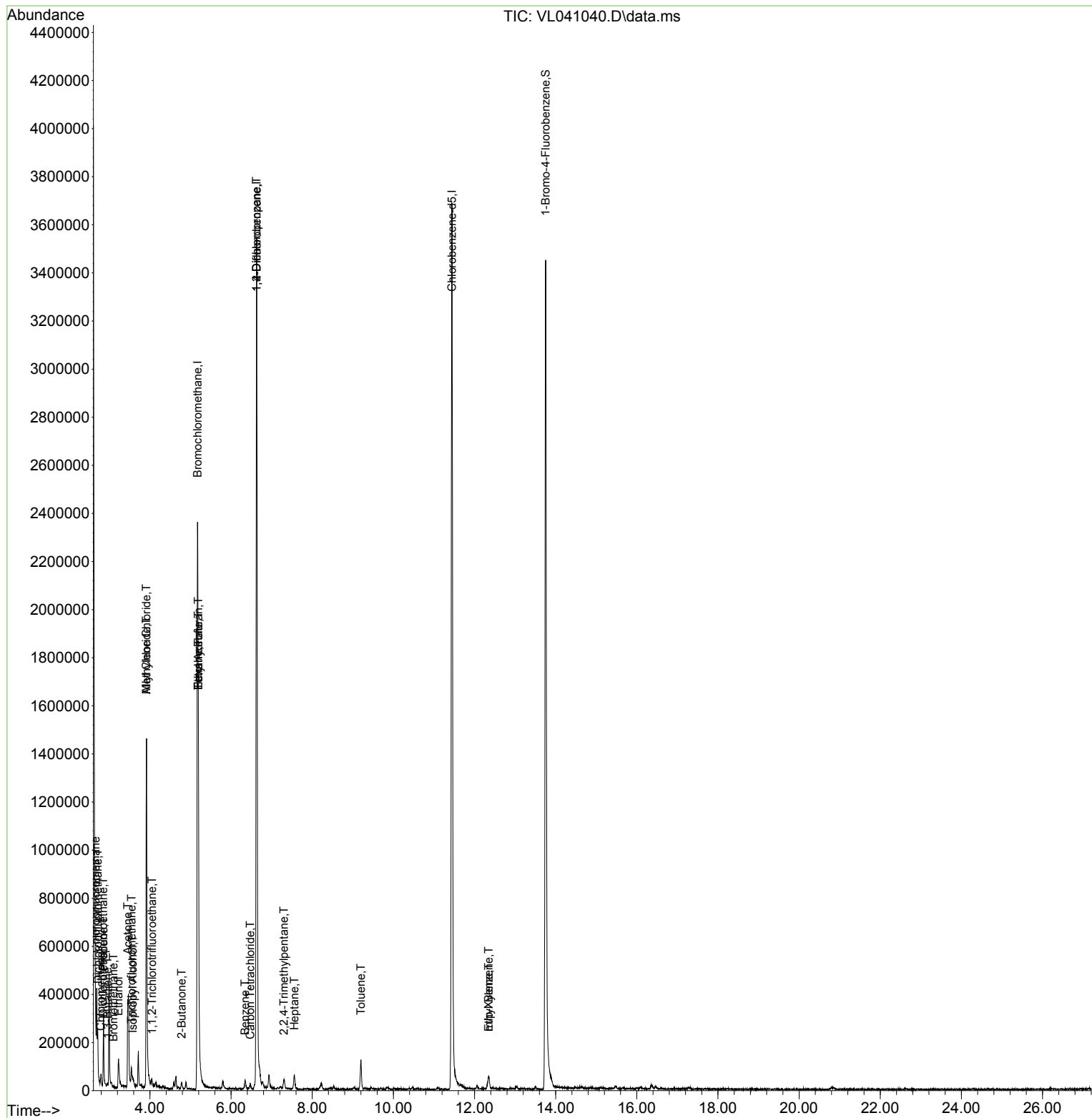
Internal Standards						
1) Bromochloromethane	5.173	49	1032618	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.632	114	2606503	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.442	117	2320226	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.754	95	1777798	10.144	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.713	85	117636	0.516	ppbv	98
3) Chlorodifluoromethane	2.658	51	70082	0.404	ppbv #	88
4) Chloromethane	2.793	50	30866	0.474	ppbv	92
6) Bromomethane	3.102	94	813	0.029	ppbv #	73
8) Dichlorotetrafluoroethane	2.845	85	3787	0.022	ppbv	90
9) Propene	2.854	41	63557	1.116	ppbv	91
10) Heptane	7.562	43	8046	0.057	ppbv #	1
11) Trichlorofluoromethane	3.546	101	43251	0.235	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.050	101	2730	0.020	ppbv #	1
13) Ethanol	3.224	45	131871	9.713	ppbv	97
15) Acetone	3.456	43	419673	3.178	ppbv	95
16) 1,3-Butadiene	2.954	39	1295	0.021	ppbv #	10
19) Isopropyl Alcohol	3.578	45	19327	0.253	ppbv #	92
20) Methylene Chloride	3.915	84	487202	9.588	ppbv	96
21) Allyl Chloride	3.915	41	13733	0.171	ppbv #	33
25) Ethyl Acetate	5.195	43	296587	1.239	ppbv #	79
26) Hexane	5.195	57	379623	3.720	ppbv #	40
34) 2-Butanone	4.780	43	26987	0.217	ppbv	92
35) Carbon Tetrachloride	6.472	117	8835	0.051	ppbv #	79
36) Benzene	6.346	78	26472	0.123	ppbv #	86
39) 1,2-Dichloropropane	6.629	63	674379	7.952	ppbv #	23
41) Tetrahydrofuran	5.195	42	160785	1.907	ppbv #	50
44) 2,2,4-Trimethylpentane	7.304	57	8056	0.022	ppbv #	1
53) Toluene	9.201	91	59488	0.252	ppbv #	67
58) Ethyl Benzene	12.346	91	16970	0.054	ppbv	91
59) m/p-Xylene	12.346	91	16970	0.062	ppbv #	32

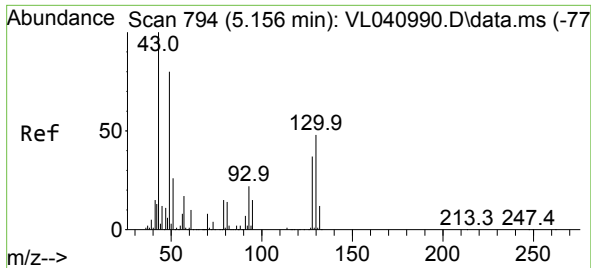
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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OA-1

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL012324AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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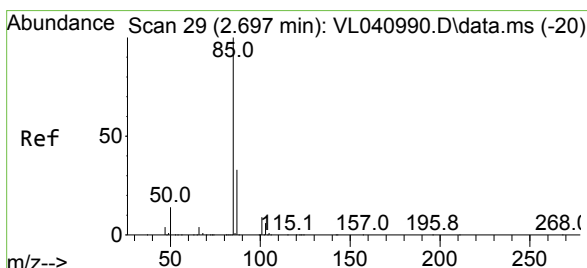
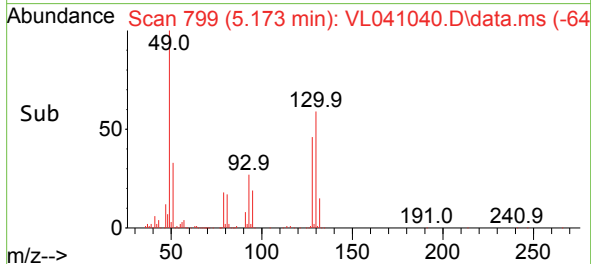
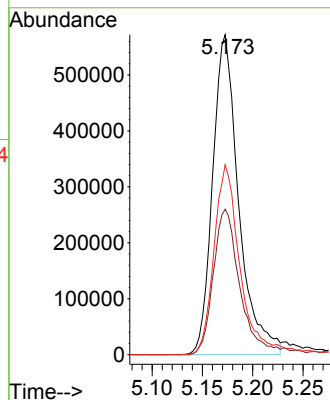
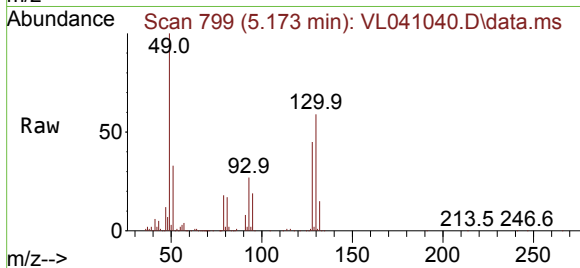




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.173 min Scan# 794
 Delta R.T. 0.007 min
 Lab File: VL041040.D
 Acq: 7 Feb 2024 14:41

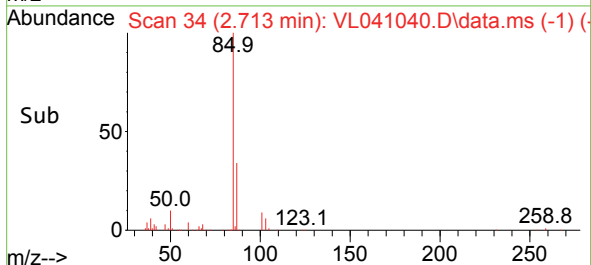
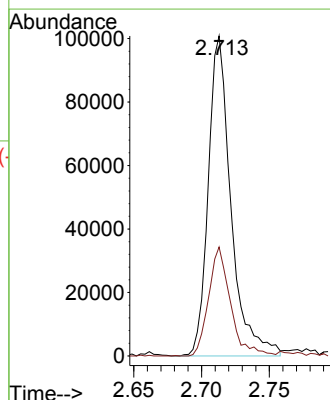
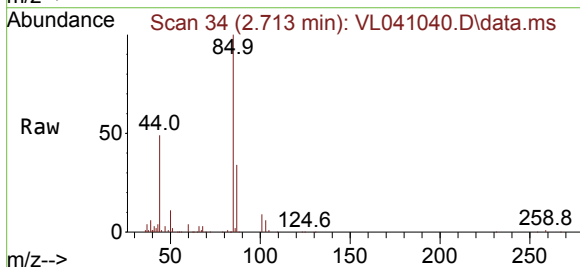
Instrument :
 MSVOA_L
 ClientSampleId :
 OA-1

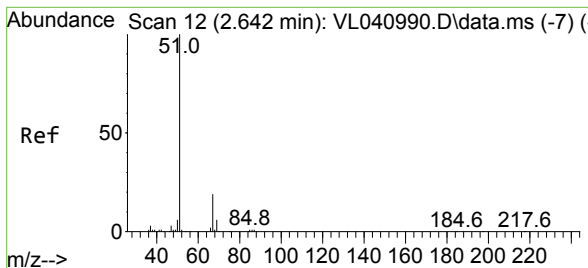
Tgt Ion: 49 Resp: 1032618
 Ion Ratio Lower Upper
 49 100
 128 48.6 23.9 71.7
 130 61.3 31.1 93.5



#2
 Dichlorodifluoromethane
 Concen: 0.516 ppbv
 RT: 2.713 min Scan# 34
 Delta R.T. 0.010 min
 Lab File: VL041040.D
 Acq: 7 Feb 2024 14:41

Tgt Ion: 85 Resp: 117636
 Ion Ratio Lower Upper
 85 100
 87 34.1 26.3 39.5

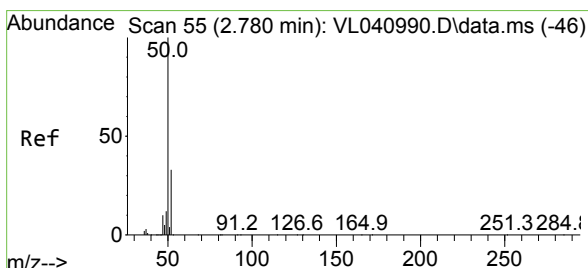
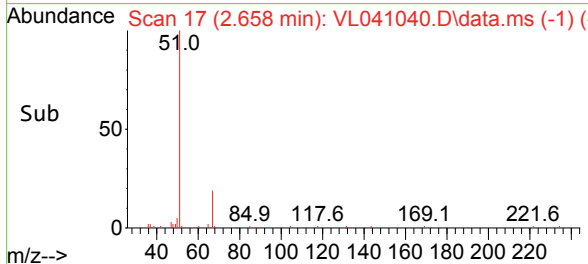
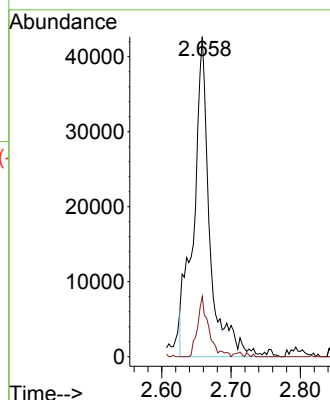
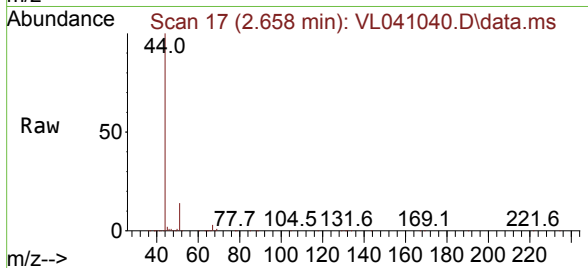




#3
Chlorodifluoromethane
Concen: 0.404 ppbv
RT: 2.658 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL041040.D
Acq: 7 Feb 2024 14:41

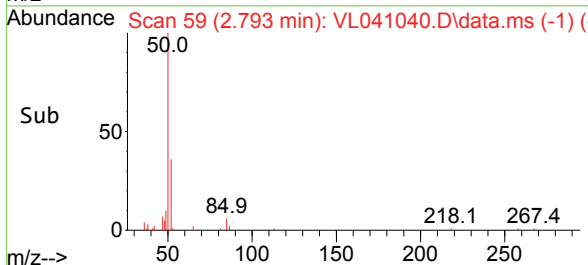
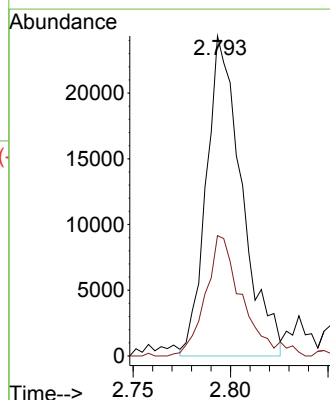
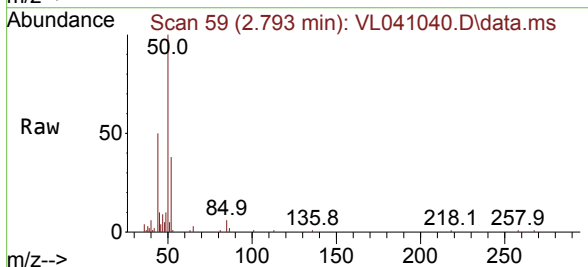
Instrument :
MSVOA_L
ClientSampleId :
OA-1

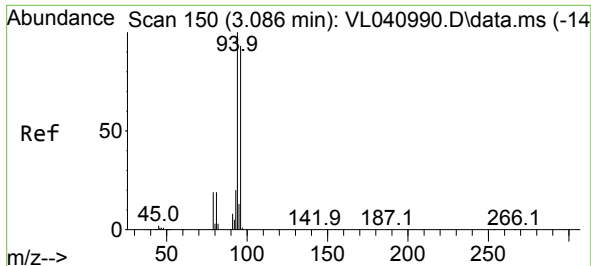
Tgt Ion: 51 Resp: 70082
Ion Ratio Lower Upper
51 100
67 13.0 14.8 22.2#



#4
Chloromethane
Concen: 0.474 ppbv
RT: 2.793 min Scan# 59
Delta R.T. 0.007 min
Lab File: VL041040.D
Acq: 7 Feb 2024 14:41

Tgt Ion: 50 Resp: 30866
Ion Ratio Lower Upper
50 100
52 37.4 26.2 39.4

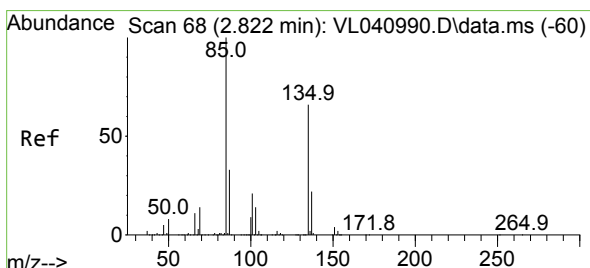
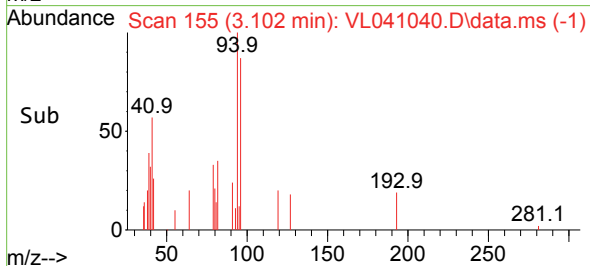
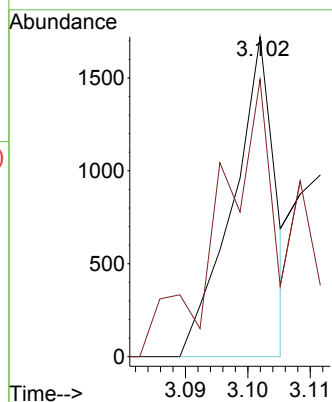
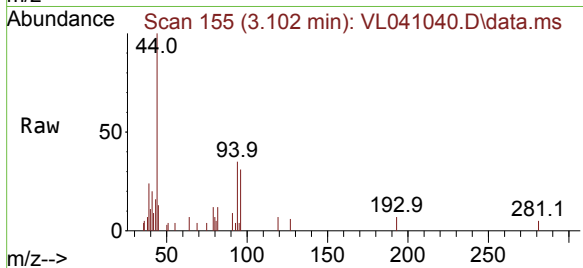




#6
Bromomethane
Concen: 0.029 ppbv
RT: 3.102 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL041040.D
Acq: 7 Feb 2024 14:41

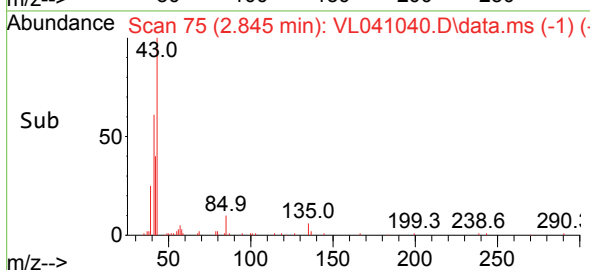
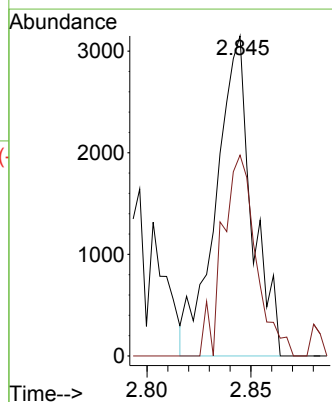
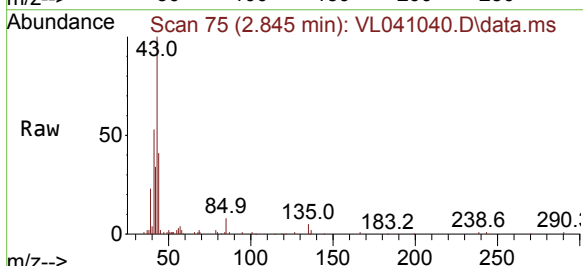
Instrument :
MSVOA_L
ClientSampleId :
OA-1

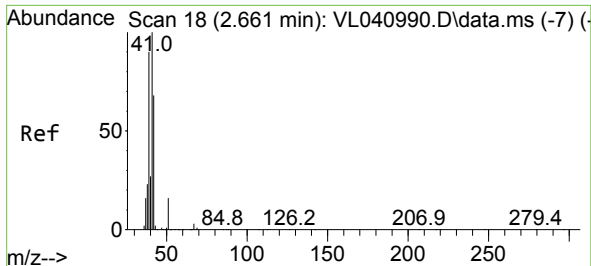
Tgt Ion: 94 Resp: 813
Ion Ratio Lower Upper
94 100
96 67.3 74.2 111.4#



#8
Dichlorotetrafluoroethane
Concen: 0.022 ppbv
RT: 2.845 min Scan# 75
Delta R.T. 0.013 min
Lab File: VL041040.D
Acq: 7 Feb 2024 14:41

Tgt Ion: 85 Resp: 3787
Ion Ratio Lower Upper
85 100
135 61.1 55.0 82.6

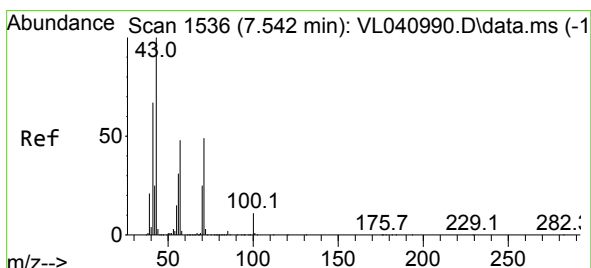
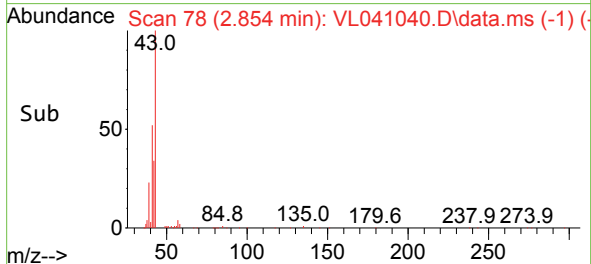
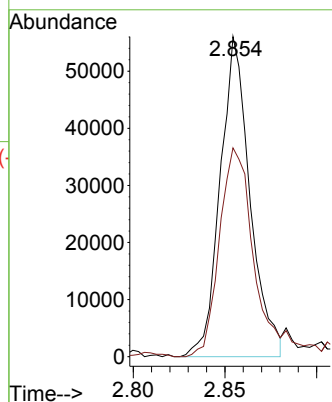
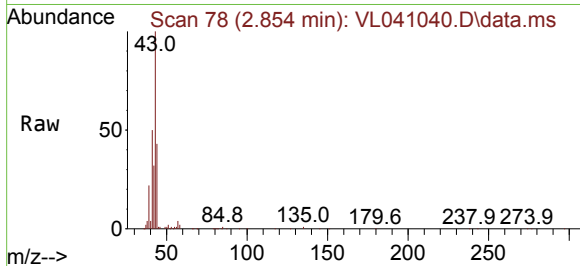




#9
 Propene
 Concen: 1.116 ppbv
 RT: 2.854 min Scan# 71
 Delta R.T. 0.187 min
 Lab File: VL041040.D
 Acq: 7 Feb 2024 14:41

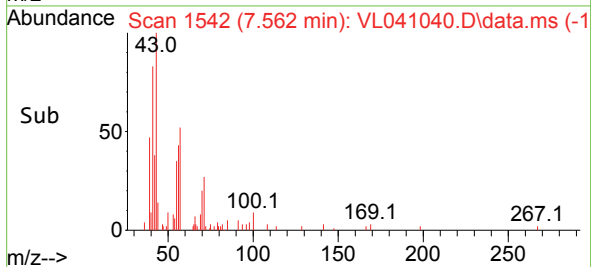
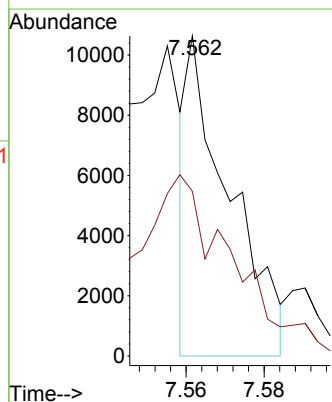
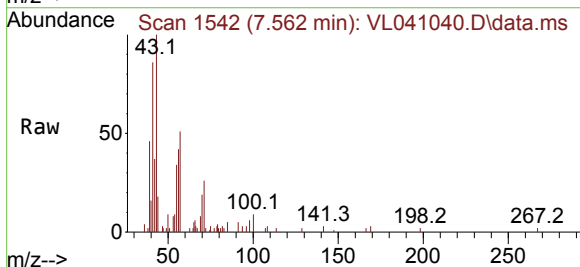
Instrument :
 MSVOA_L
 ClientSampleId :
 OA-1

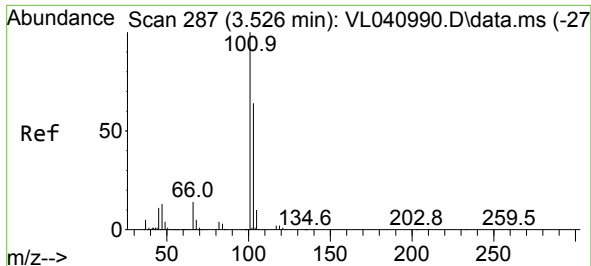
Tgt Ion: 41 Resp: 63557
 Ion Ratio Lower Upper
 41 100
 42 81.5 59.0 88.4



#10
 Heptane
 Concen: 0.057 ppbv
 RT: 7.562 min Scan# 1542
 Delta R.T. 0.010 min
 Lab File: VL041040.D
 Acq: 7 Feb 2024 14:41

Tgt Ion: 43 Resp: 8046
 Ion Ratio Lower Upper
 43 100
 57 140.0 39.4 59.2#

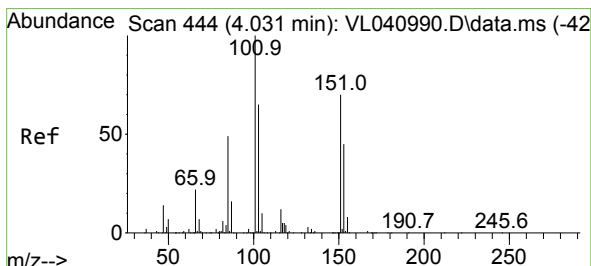
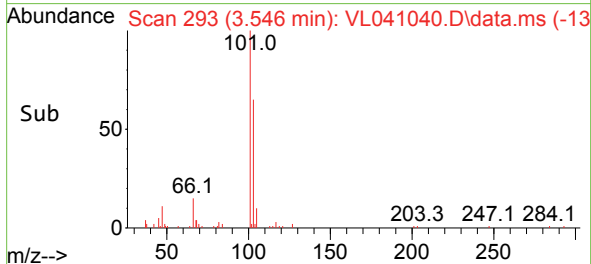
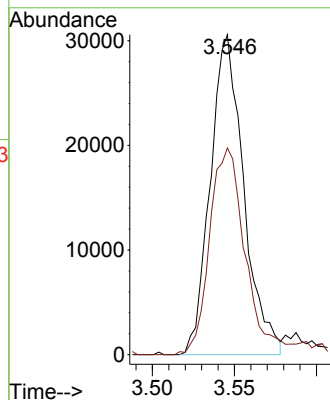
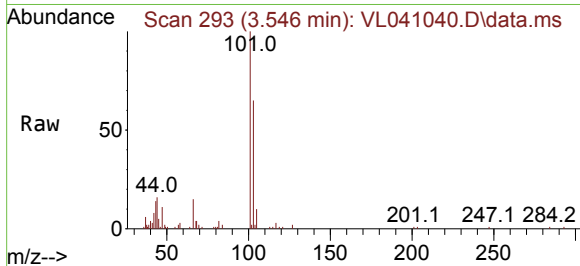




#11
 Trichlorofluoromethane
 Concen: 0.235 ppbv
 RT: 3.546 min Scan# 293
 Delta R.T. 0.013 min
 Lab File: VL041040.D
 Acq: 7 Feb 2024 14:41

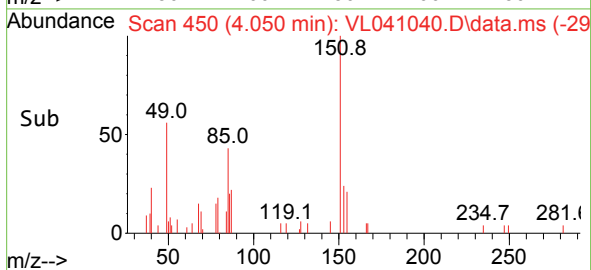
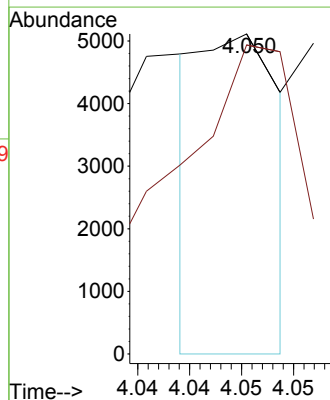
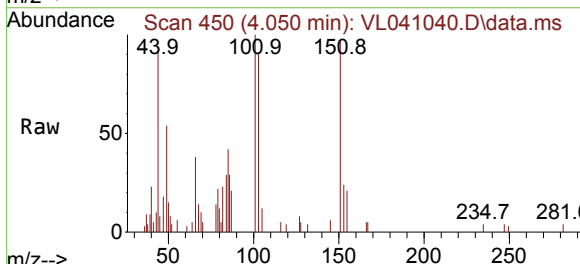
Instrument :
 MSVOA_L
 ClientSampleId :
 OA-1

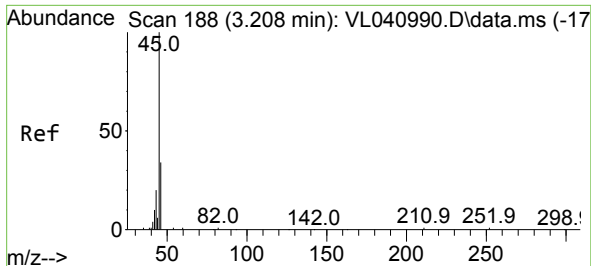
Tgt Ion:101 Resp: 43251
 Ion Ratio Lower Upper
 101 100
 103 63.7 51.4 77.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.020 ppbv
 RT: 4.050 min Scan# 450
 Delta R.T. 0.010 min
 Lab File: VL041040.D
 Acq: 7 Feb 2024 14:41

Tgt Ion:101 Resp: 2730
 Ion Ratio Lower Upper
 101 100
 151 221.9 56.6 85.0#

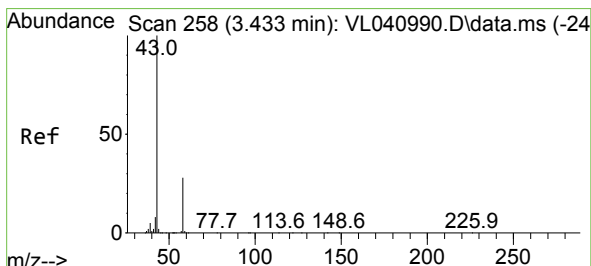
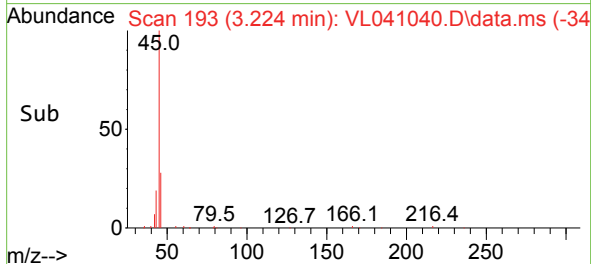
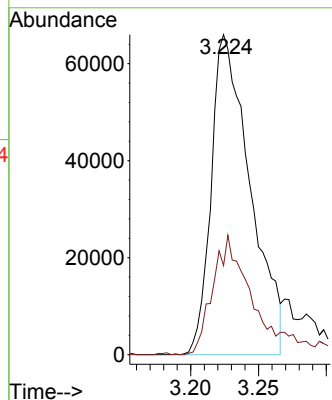
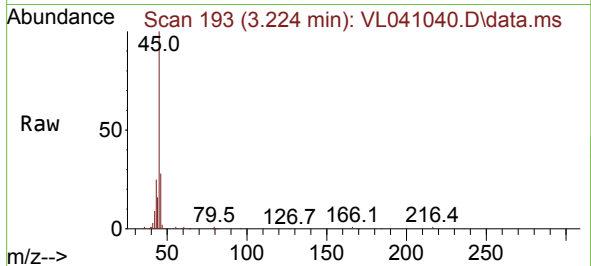




#13
Ethanol
Concen: 9.713 ppbv
RT: 3.224 min Scan# 193
Delta R.T. 0.010 min
Lab File: VL041040.D
Acq: 7 Feb 2024 14:41

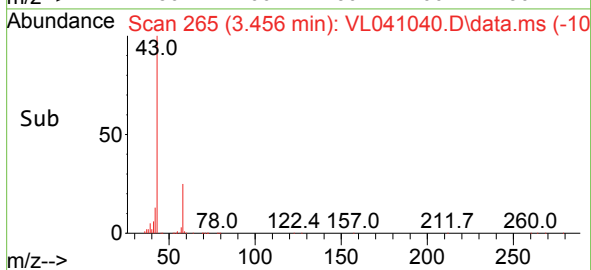
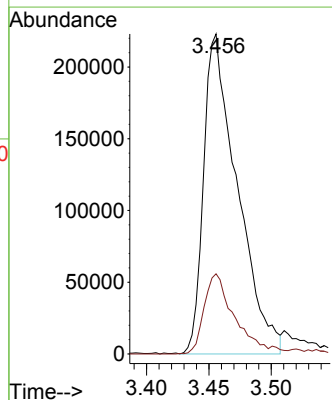
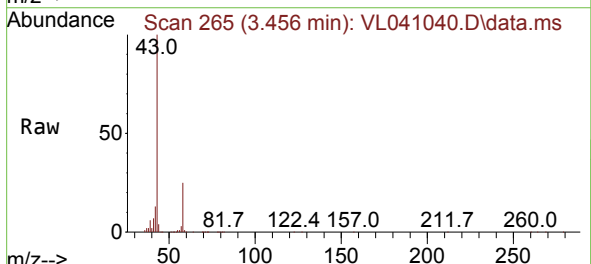
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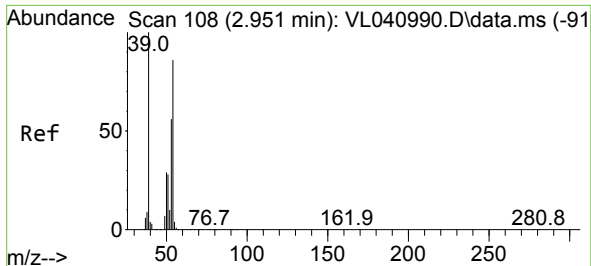
Tgt Ion: 45 Resp: 131871
Ion Ratio Lower Upper
45 100
46 42.2 16.2 64.8



#15
Acetone
Concen: 3.178 ppbv
RT: 3.456 min Scan# 265
Delta R.T. 0.016 min
Lab File: VL041040.D
Acq: 7 Feb 2024 14:41

Tgt Ion: 43 Resp: 419673
Ion Ratio Lower Upper
43 100
58 25.2 22.2 33.2

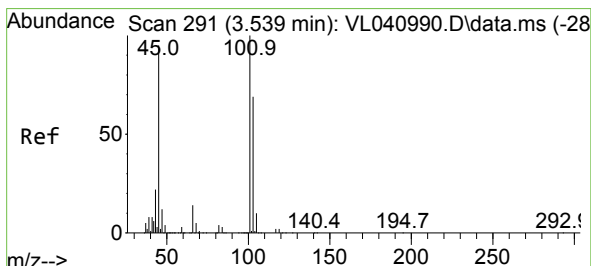
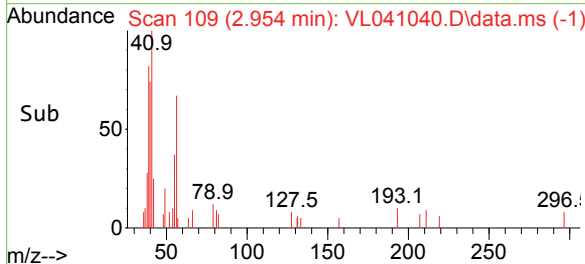
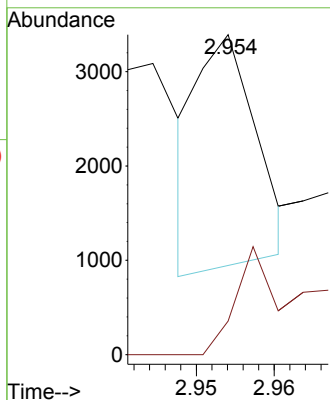
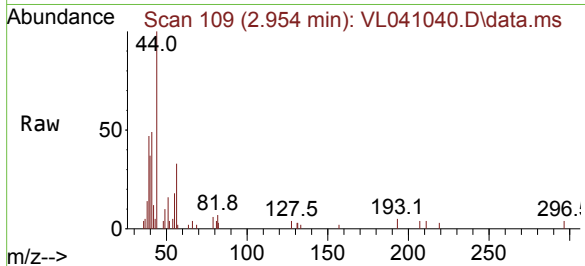




#16
1,3-Butadiene
Concen: 0.021 ppbv
RT: 2.954 min Scan# 108
Delta R.T. -0.003 min
Lab File: VL041040.D
Acq: 7 Feb 2024 14:41

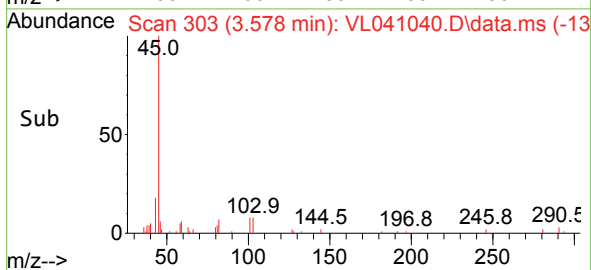
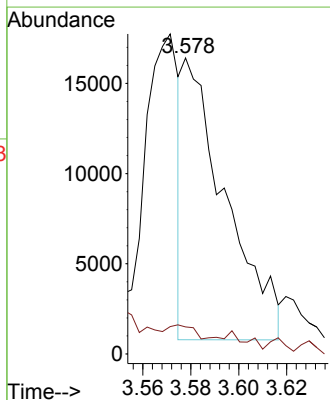
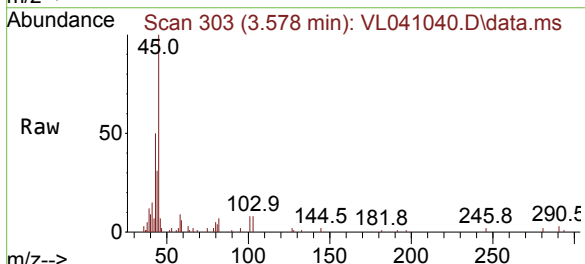
Instrument :
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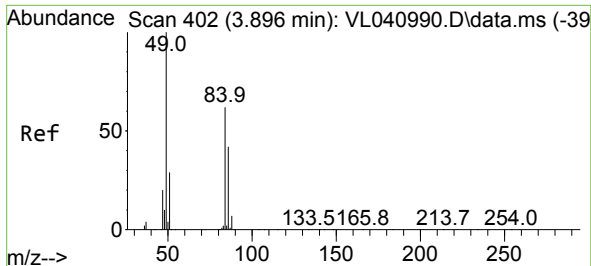
Tgt Ion: 39 Resp: 1295
Ion Ratio Lower Upper
39 100
54 0.0 62.7 94.1#



#19
Isopropyl Alcohol
Concen: 0.253 ppbv
RT: 3.578 min Scan# 303
Delta R.T. 0.029 min
Lab File: VL041040.D
Acq: 7 Feb 2024 14:41

Tgt Ion: 45 Resp: 19327
Ion Ratio Lower Upper
45 100
58 0.0 2.2 3.4#



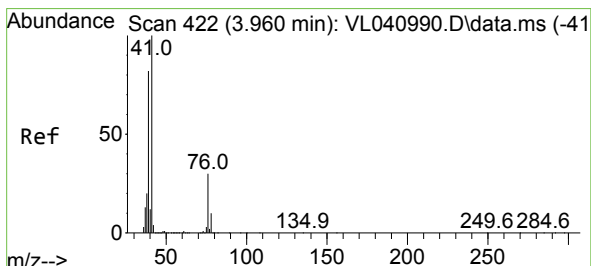
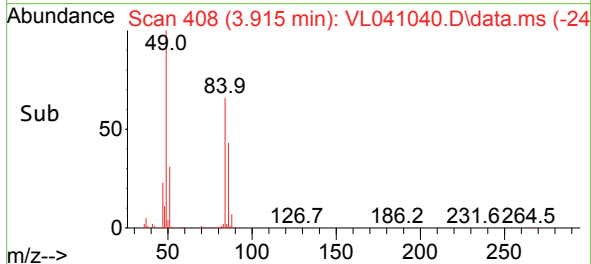
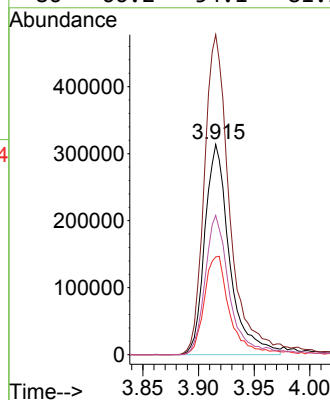
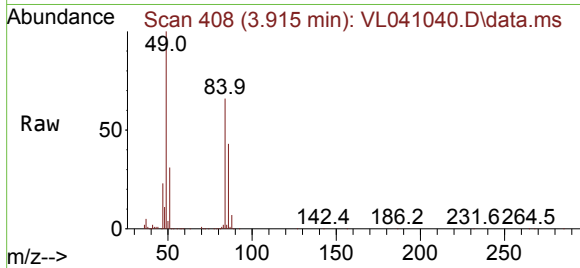


#20
Methylene Chloride
Concen: 9.588 ppbv
RT: 3.915 min Scan# 408
Delta R.T. 0.010 min
Lab File: VL041040.D
Acq: 7 Feb 2024 14:41

Instrument :
MSVOA_L
ClientSampleId :
OA-1

Tgt Ion: 84 Resp: 487202

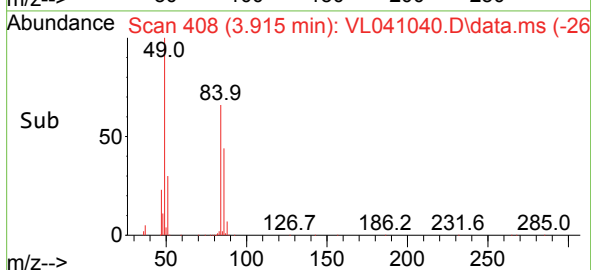
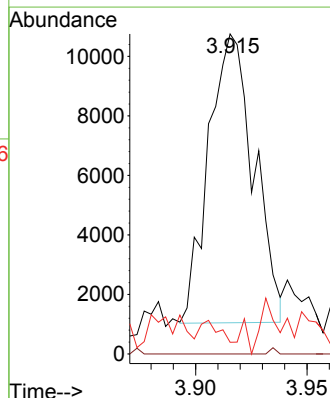
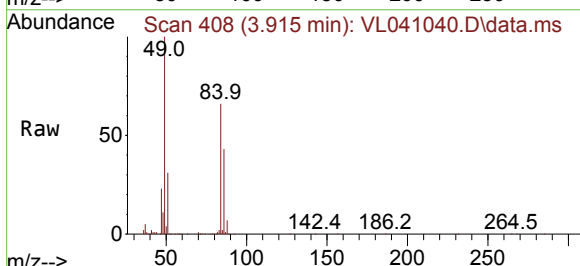
Ion	Ratio	Lower	Upper
84	100		
49	152.1	128.1	192.1
51	46.3	36.5	54.7
86	66.2	54.1	81.1

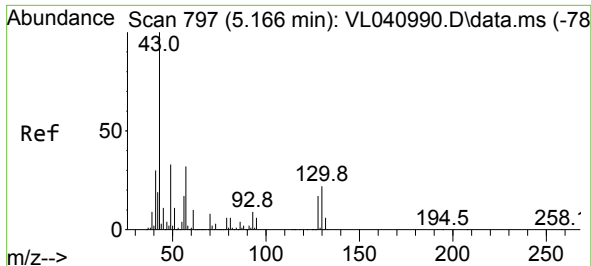


#21
Allyl Chloride
Concen: 0.171 ppbv
RT: 3.915 min Scan# 408
Delta R.T. -0.054 min
Lab File: VL041040.D
Acq: 7 Feb 2024 14:41

Tgt Ion: 41 Resp: 13733

Ion	Ratio	Lower	Upper
41	100		
76	0.0	25.0	37.4#
39	19.4	67.0	100.6#

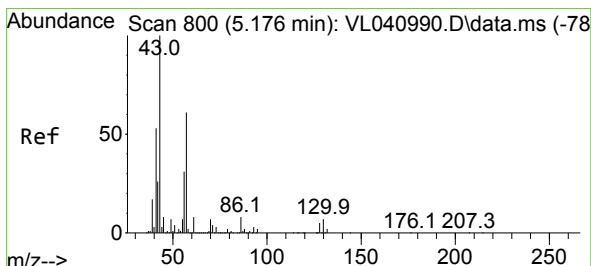
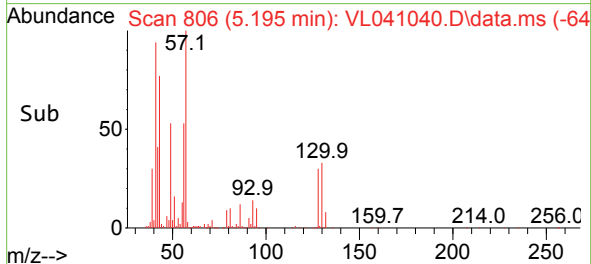
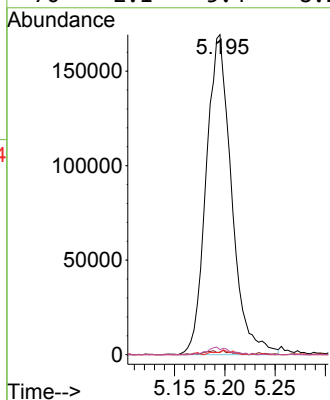
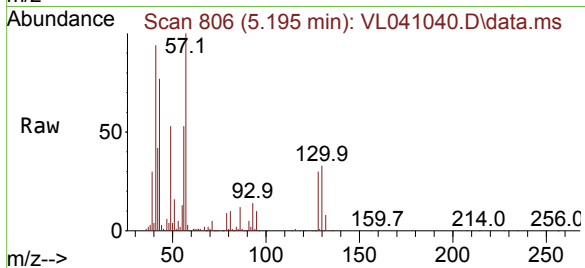




#25
Ethyl Acetate
Concen: 1.239 ppbv
RT: 5.195 min Scan# 806
Delta R.T. 0.016 min
Lab File: VL041040.D
Acq: 7 Feb 2024 14:41

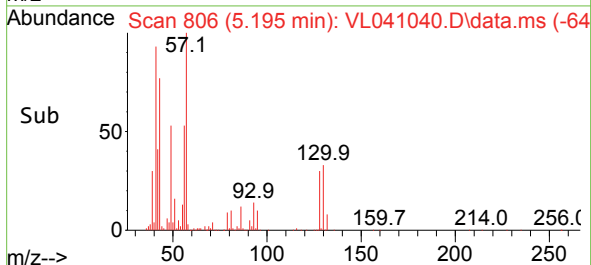
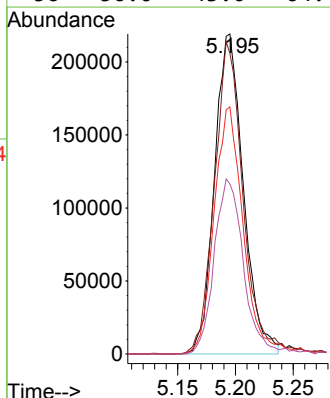
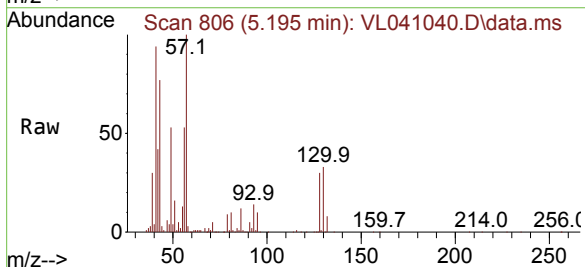
Instrument :
MSVOA_L
ClientSampleId :
OA-1

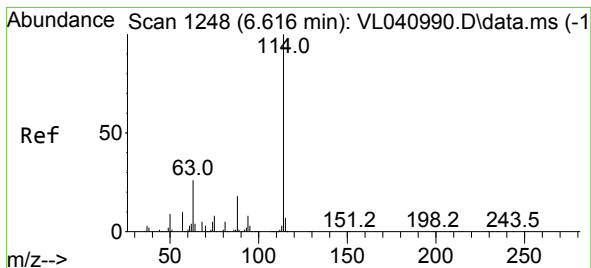
Tgt Ion: 43 Resp: 296587
Ion Ratio Lower Upper
43 100
45 1.3 8.2 12.4#
61 1.1 7.9 11.9#
70 2.1 5.4 8.2#



#26
Hexane
Concen: 3.720 ppbv
RT: 5.195 min Scan# 806
Delta R.T. 0.010 min
Lab File: VL041040.D
Acq: 7 Feb 2024 14:41

Tgt Ion: 57 Resp: 379623
Ion Ratio Lower Upper
57 100
41 98.7 74.4 111.6
43 79.4 190.6 285.8#
56 56.0 43.0 64.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.632 min Scan# 114

Delta R.T. 0.007 min

Lab File: VL041040.D

Acq: 7 Feb 2024 14:41

Instrument :

MSVOA_L

ClientSampleId :

OA-1

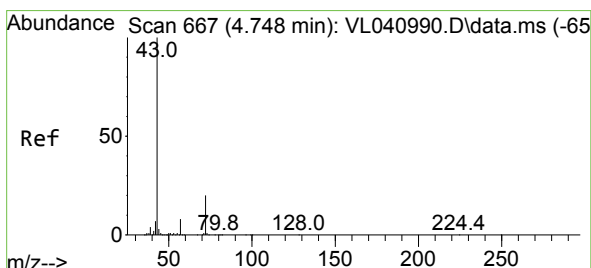
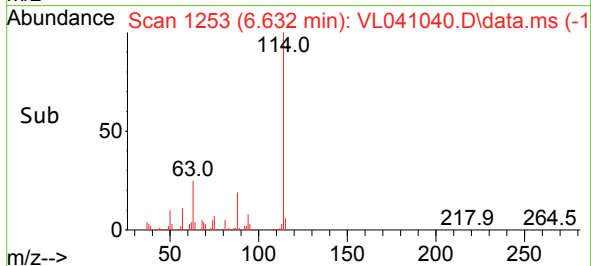
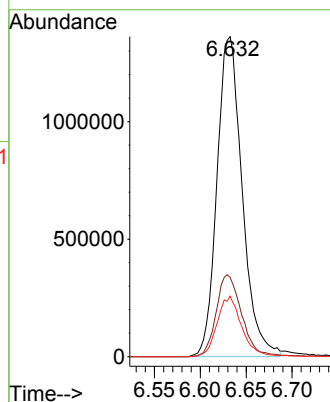
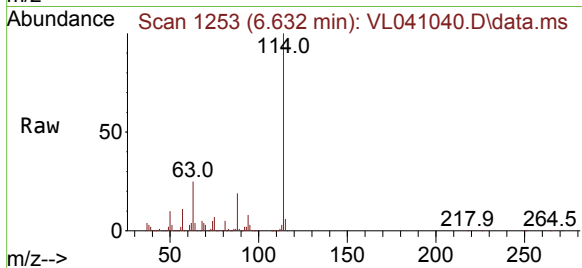
Tgt Ion:114 Resp: 2606503

Ion Ratio Lower Upper

114 100

63 26.1 20.8 31.2

88 18.5 14.3 21.5



#34

2-Butanone

Concen: 0.217 ppbv

RT: 4.780 min Scan# 677

Delta R.T. 0.023 min

Lab File: VL041040.D

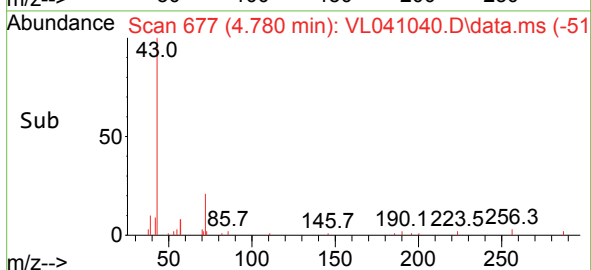
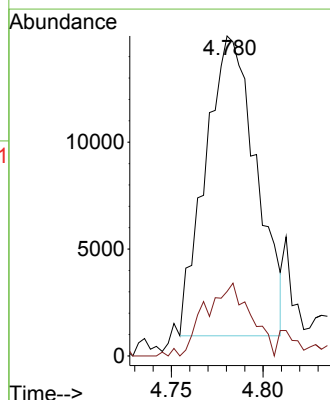
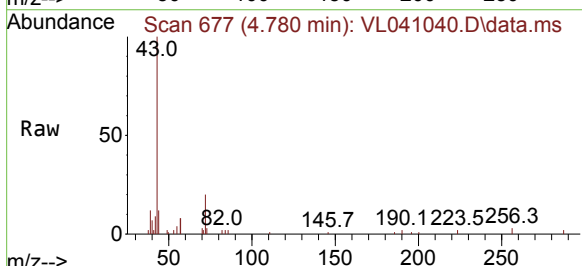
Acq: 7 Feb 2024 14:41

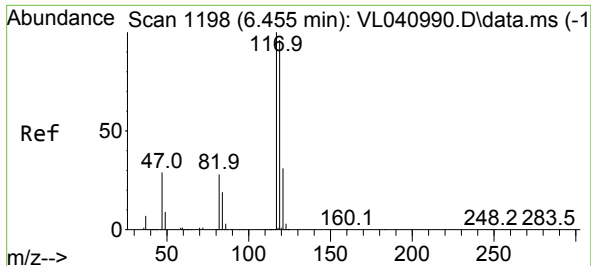
Tgt Ion: 43 Resp: 26987

Ion Ratio Lower Upper

43 100

72 25.7 17.5 26.3

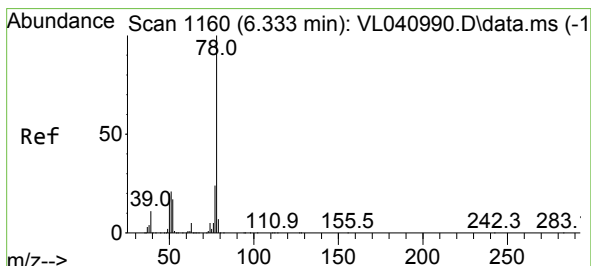
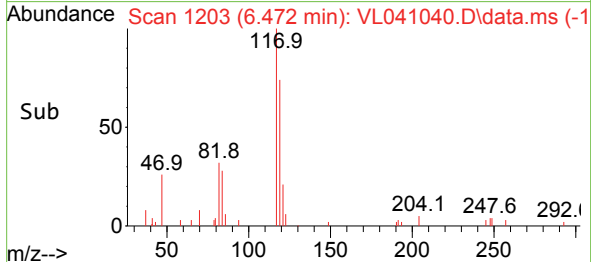
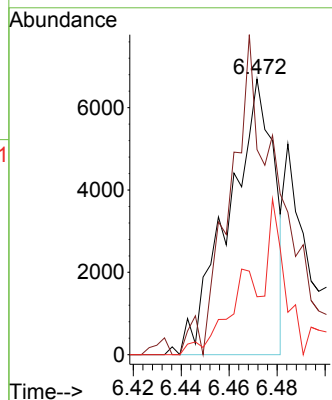
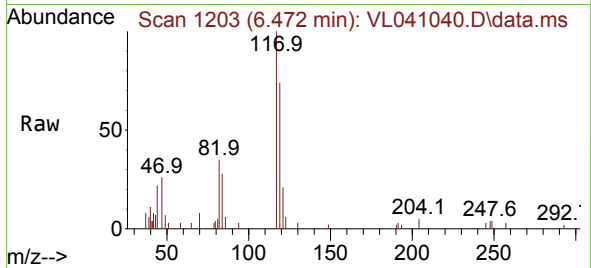




#35
Carbon Tetrachloride
Concen: 0.051 ppbv
RT: 6.472 min Scan# 1198
Delta R.T. 0.007 min
Lab File: VL041040.D
Acq: 7 Feb 2024 14:41

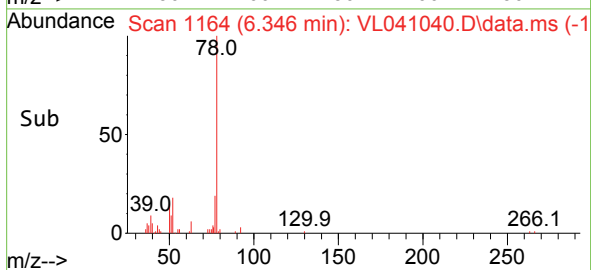
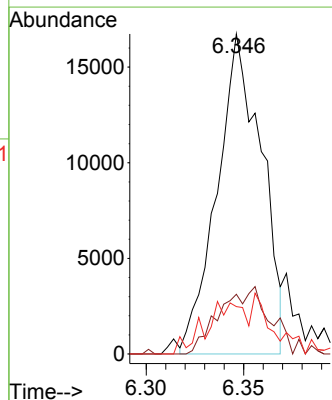
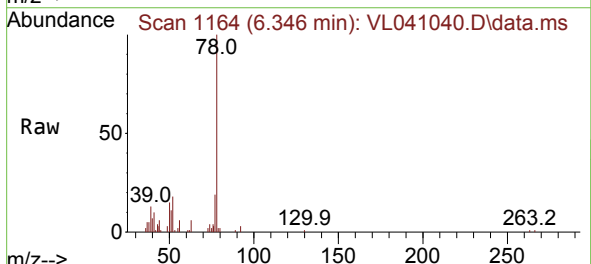
Instrument :
MSVOA_L
ClientSampleId :
OA-1

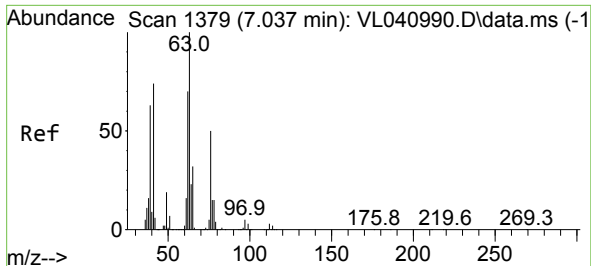
Tgt Ion:117 Resp: 8835
Ion Ratio Lower Upper
117 100
119 74.4 76.9 115.3#
121 21.0 24.7 37.1#



#36
Benzene
Concen: 0.123 ppbv
RT: 6.346 min Scan# 1164
Delta R.T. 0.003 min
Lab File: VL041040.D
Acq: 7 Feb 2024 14:41

Tgt Ion: 78 Resp: 26472
Ion Ratio Lower Upper
78 100
77 19.0 19.0 28.4
50 11.0 15.8 23.6#





#39

1,2-Dichloropropane

Concen: 7.952 ppbv

RT: 6.629 min Scan# 11

Delta R.T. -0.418 min

Lab File: VL041040.D

Acq: 7 Feb 2024 14:41

Instrument :

MSVOA_L

ClientSampleId :

OA-1

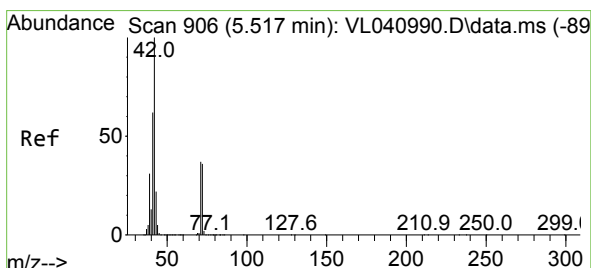
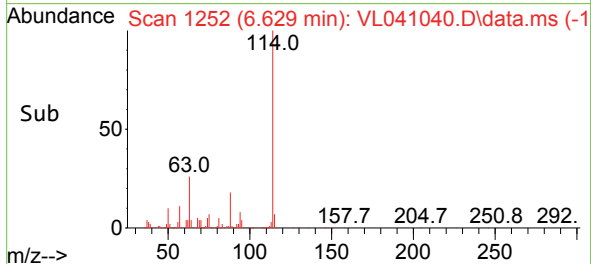
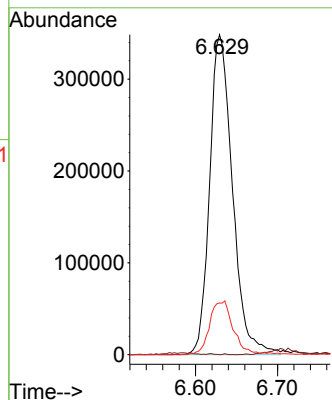
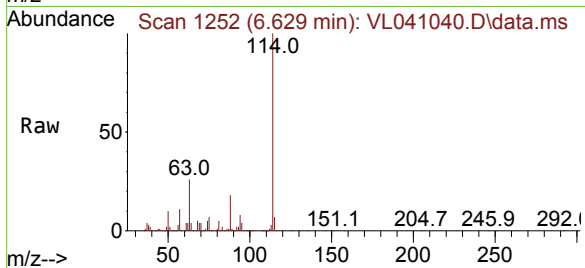
Tgt Ion: 63 Resp: 674379

Ion Ratio Lower Upper

63 100

41 0.0 59.6 89.4#

62 16.1 55.6 83.4#



#41

Tetrahydrofuran

Concen: 1.907 ppbv

RT: 5.195 min Scan# 806

Delta R.T. -0.334 min

Lab File: VL041040.D

Acq: 7 Feb 2024 14:41

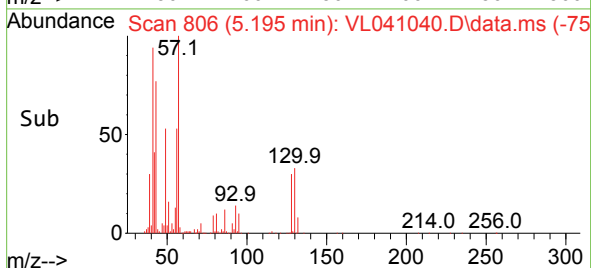
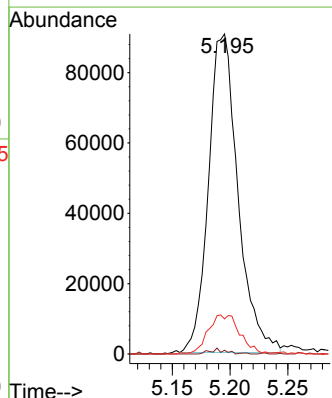
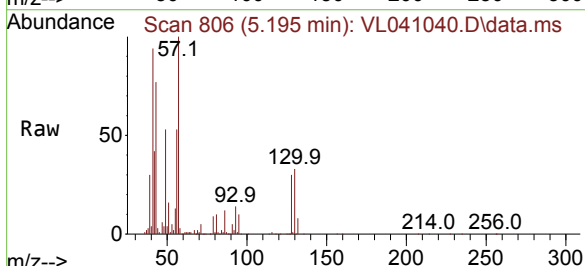
Tgt Ion: 42 Resp: 160785

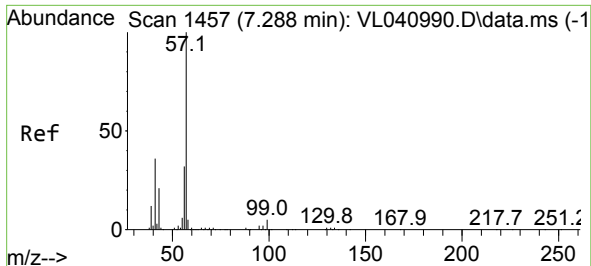
Ion Ratio Lower Upper

42 100

72 0.9 30.0 45.0#

71 13.6 29.5 44.3#

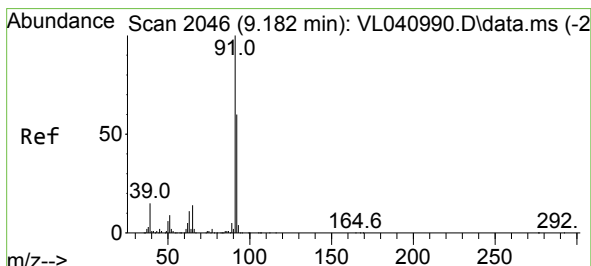
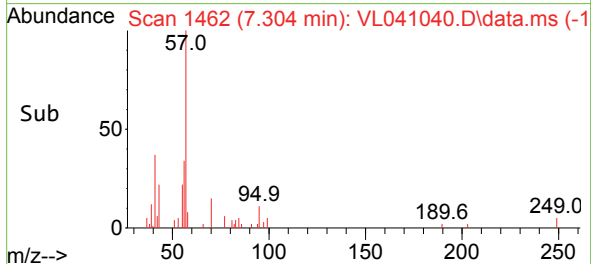
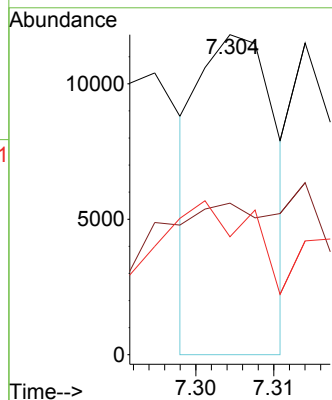
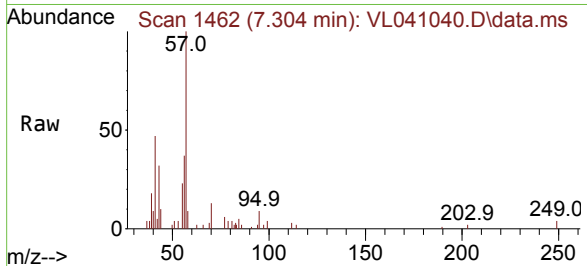




#44
2,2,4-Trimethylpentane
Concen: 0.022 ppbv
RT: 7.304 min Scan# 1457
Delta R.T. 0.007 min
Lab File: VL041040.D
Acq: 7 Feb 2024 14:41

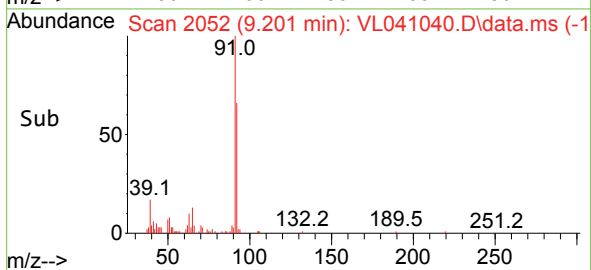
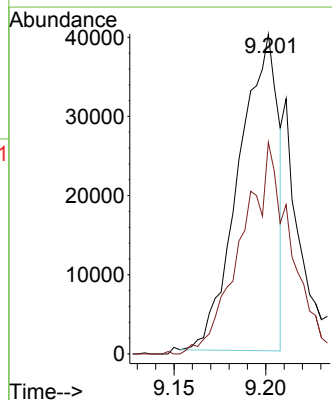
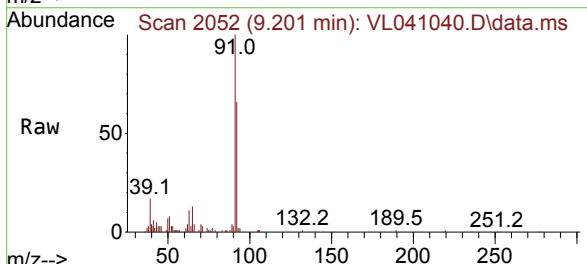
Instrument :
MSVOA_L
ClientSampleId :
OA-1

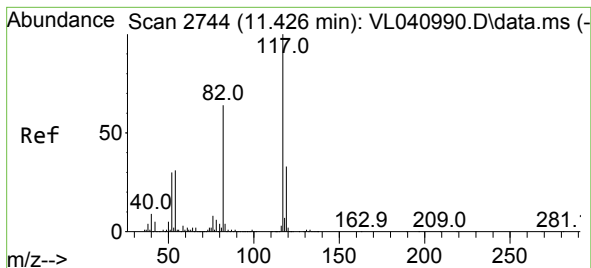
Tgt Ion: 57 Resp: 8056
Ion Ratio Lower Upper
57 100
41 0.0 28.6 43.0#
56 165.0 25.2 37.8#



#53
Toluene
Concen: 0.252 ppbv
RT: 9.201 min Scan# 2052
Delta R.T. 0.007 min
Lab File: VL041040.D
Acq: 7 Feb 2024 14:41

Tgt Ion: 91 Resp: 59488
Ion Ratio Lower Upper
91 100
92 85.6 48.6 72.8#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.442 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL041040.D

Acq: 7 Feb 2024 14:41

Instrument :

MSVOA_L

ClientSampleId :

OA-1

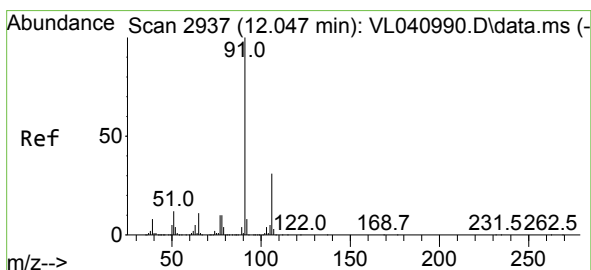
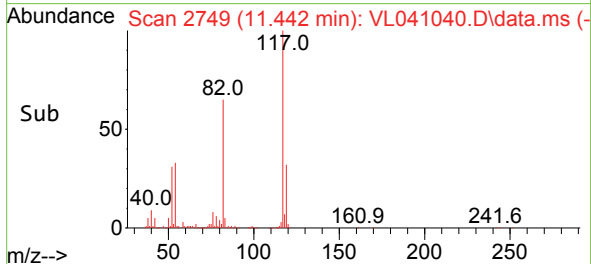
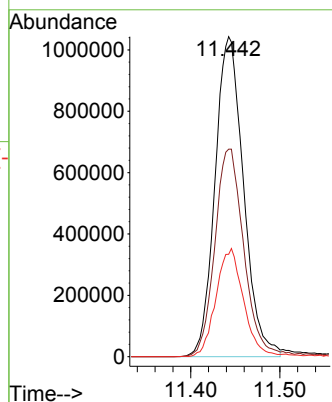
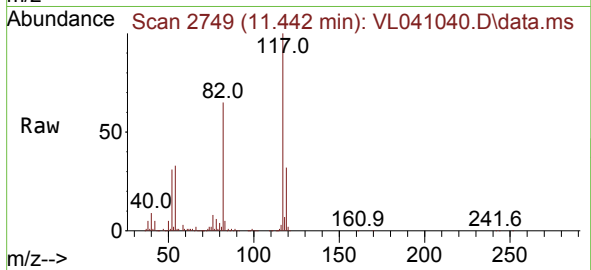
Tgt Ion:117 Resp: 2320226

Ion Ratio Lower Upper

117 100

82 67.8 51.7 77.5

119 33.3 23.8 35.6



#58

Ethyl Benzene

Concen: 0.054 ppbv

RT: 12.346 min Scan# 3030

Delta R.T. 0.286 min

Lab File: VL041040.D

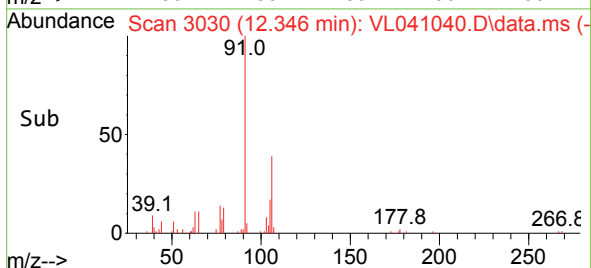
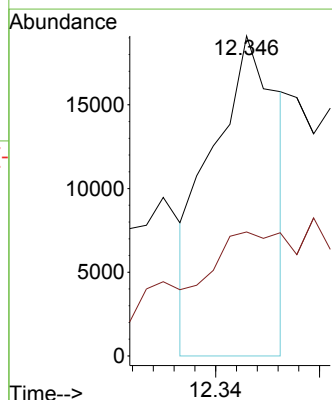
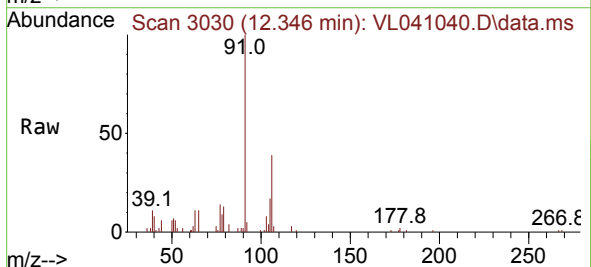
Acq: 7 Feb 2024 14:41

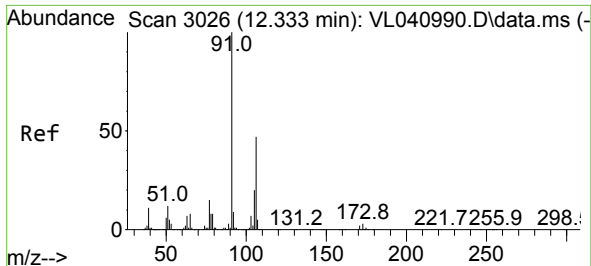
Tgt Ion: 91 Resp: 16970

Ion Ratio Lower Upper

91 100

106 26.1 24.8 37.2





#59

m/p-Xylene

Concen: 0.062 ppbv

RT: 12.346 min Scan# 3026

Delta R.T. -0.003 min

Lab File: VL041040.D

Acq: 7 Feb 2024 14:41

Instrument :

MSVOA_L

ClientSampleId :

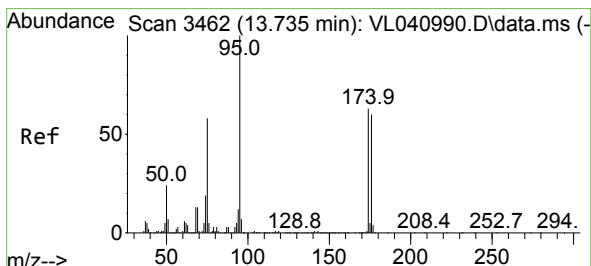
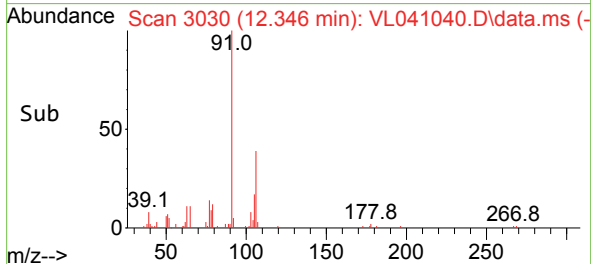
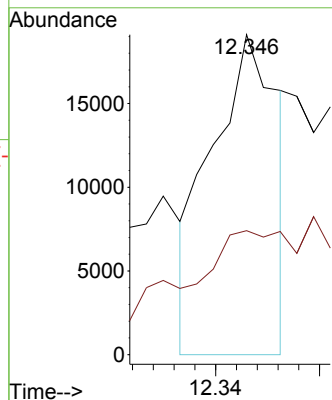
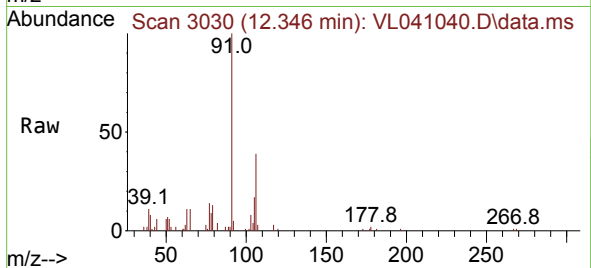
OA-1

Tgt Ion: 91 Resp: 16970

Ion Ratio Lower Upper

91 100

106 0.0 34.9 52.3#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.144 ppbv

RT: 13.754 min Scan# 3468

Delta R.T. 0.007 min

Lab File: VL041040.D

Acq: 7 Feb 2024 14:41

Tgt Ion: 95 Resp: 1777798

Ion Ratio Lower Upper

95 100

174 62.4 49.1 73.7

175 4.7 3.7 5.5

