

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011923\
 Data File : VL040110.D
 Acq On : 19 Jan 2023 12:59
 Operator : SY/MD
 Sample : 01223-05
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AP-1

Quant Time: Jan 20 02:05:37 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011623AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Jan 16 14:40:47 2023
 Response via : Initial Calibration

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

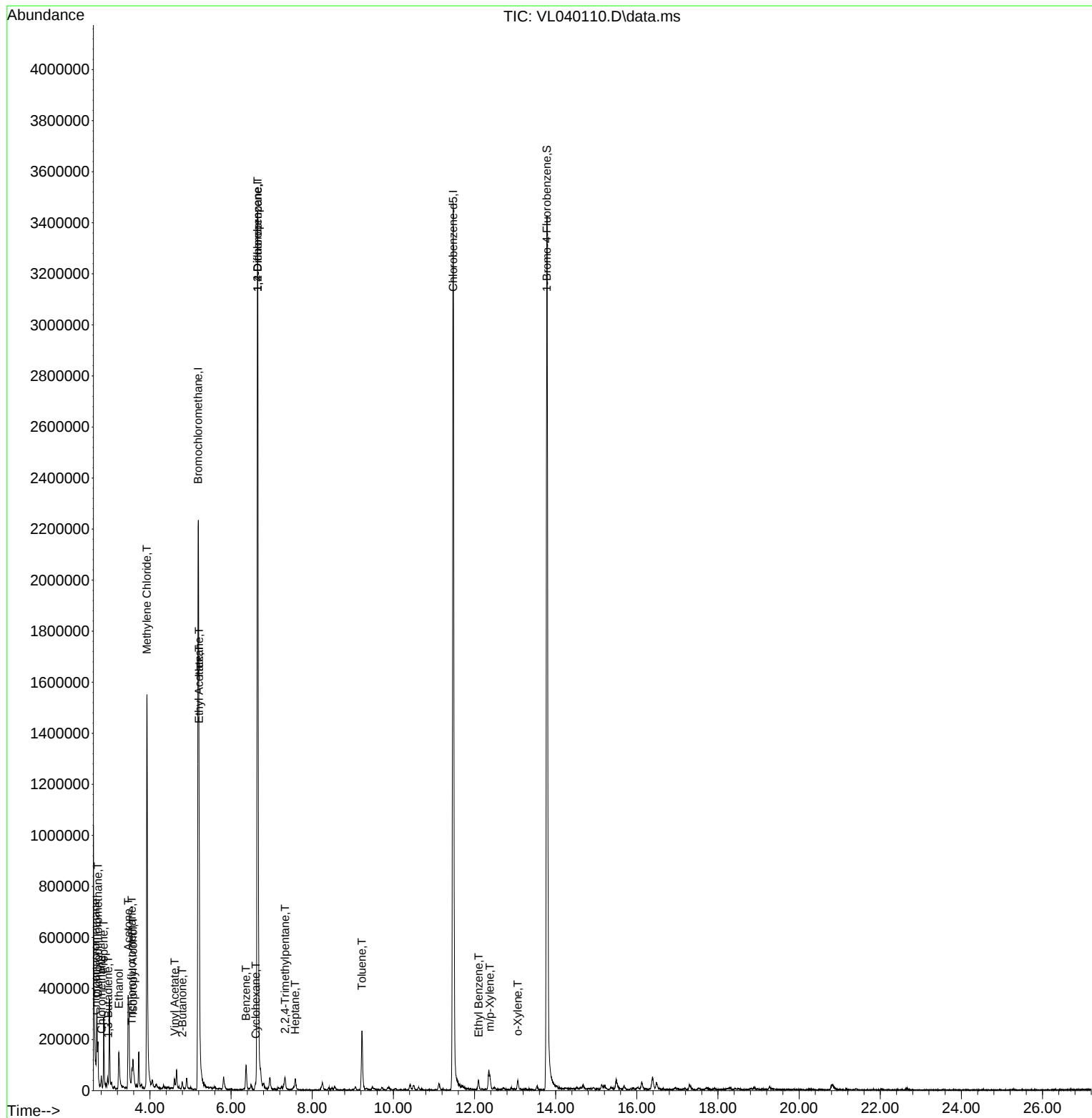
Internal Standards						
1) Bromochloromethane	5.189	49	1020999	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2570723	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.475	117	2189540	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.786	95	1745641	9.593	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.719	85	101079	0.565	ppbv	98
3) Chlorodifluoromethane	2.661	51	69755	0.570	ppbv #	88
4) Chloromethane	2.806	50	32936	0.435	ppbv	91
9) Propene	2.861	41	62503	1.228	ppbv	95
10) Heptane	7.581	43	7837	0.067	ppbv #	20
11) Trichlorofluoromethane	3.552	101	40445	0.226	ppbv	86
13) Ethanol	3.237	45	93646	19.997	ppbv #	50
15) Acetone	3.465	43	428258	3.497	ppbv	96
16) 1,3-Butadiene	2.973	39	2355	0.041	ppbv #	1
19) Isopropyl Alcohol	3.581	45	125022	2.087	ppbv #	93
20) Methylene Chloride	3.925	84	541457	10.023	ppbv	97
23) Vinyl Acetate	4.610	43	5488	0.138	ppbv #	1
25) Ethyl Acetate	5.211	43	236652	1.097	ppbv #	82
26) Hexane	5.208	57	271610	2.877	ppbv #	43
30) Cyclohexane	6.610	84	3252	0.043	ppbv #	1
34) 2-Butanone	4.800	43	32247	0.265	ppbv	97
36) Benzene	6.369	78	76432	0.402	ppbv	99
39) 1,2-Dichloropropane	6.652	63	649375	8.727	ppbv #	22
44) 2,2,4-Trimethylpentane	7.333	57	33603	0.106	ppbv #	66
53) Toluene	9.221	91	161019	0.794	ppbv	94
58) Ethyl Benzene	12.105	91	11471	0.047	ppbv	93
59) m/p-Xylene	12.381	91	8046	0.037	ppbv #	33
60) o-Xylene	13.066	91	6853	0.033	ppbv #	1

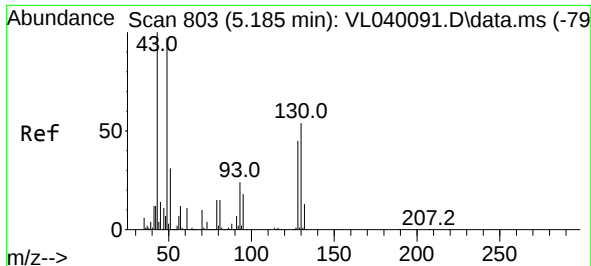
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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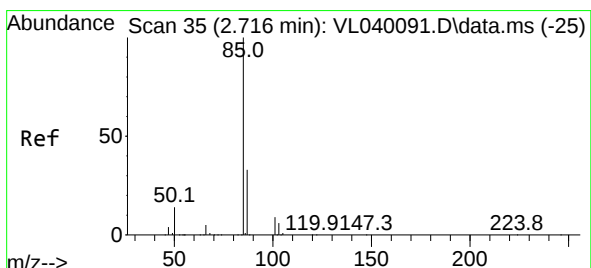
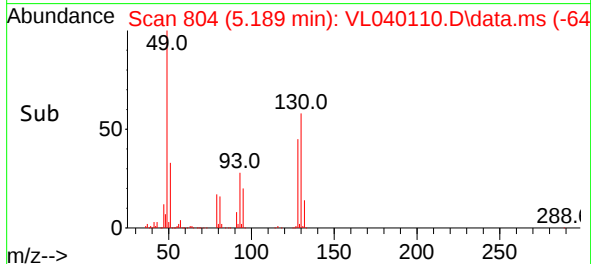
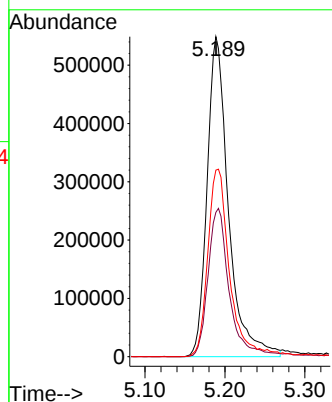
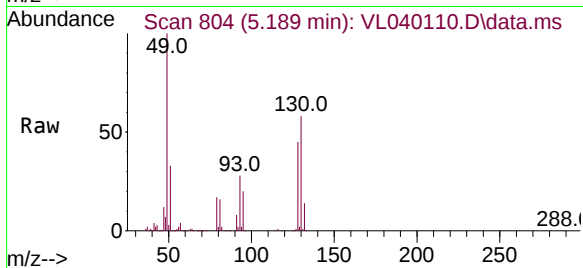




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.189 min Scan# 80
 Delta R.T. 0.004 min
 Lab File: VL040110.D
 Acq: 19 Jan 2023 12:59

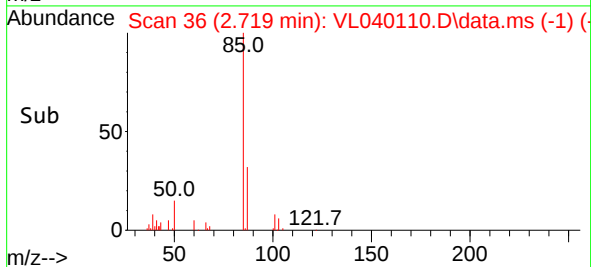
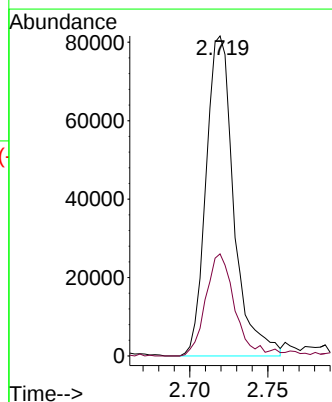
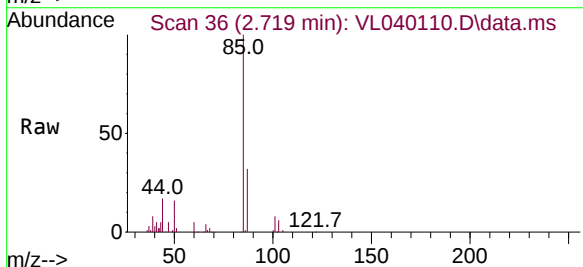
Instrument :
 MSVOA_L
 ClientSampleId :
 AP-1

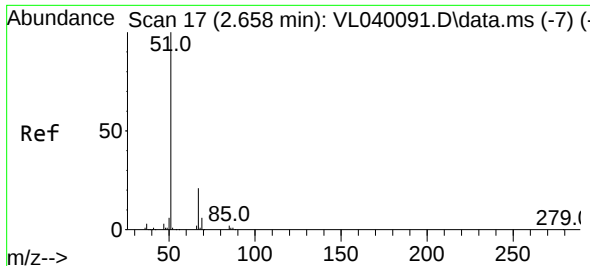
Tgt Ion: 49 Resp: 1020999
 Ion Ratio Lower Upper
 49 100
 128 47.2 23.6 71.0
 130 61.1 29.8 89.3



#2
 Dichlorodifluoromethane
 Concen: 0.565 ppbv
 RT: 2.719 min Scan# 36
 Delta R.T. 0.003 min
 Lab File: VL040110.D
 Acq: 19 Jan 2023 12:59

Tgt Ion: 85 Resp: 101079
 Ion Ratio Lower Upper
 85 100
 87 31.9 26.5 39.7

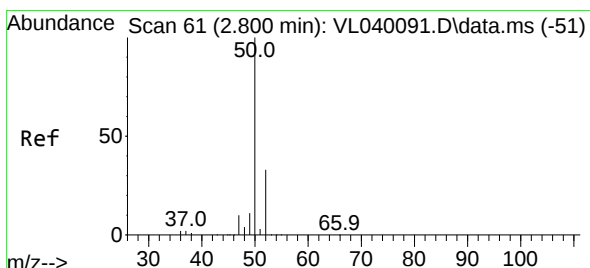
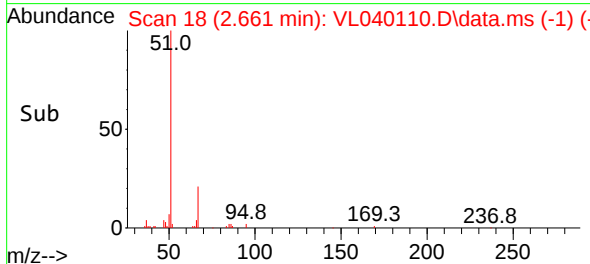
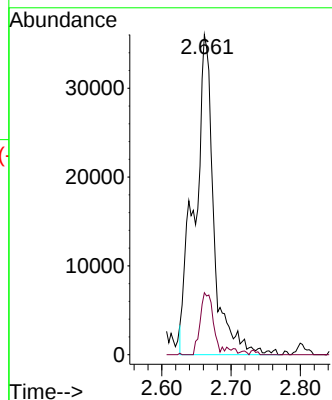
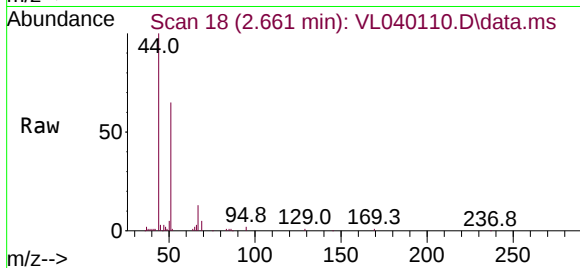




#3
Chlorodifluoromethane
Concen: 0.570 ppbv
RT: 2.661 min Scan# 18
Delta R.T. 0.003 min
Lab File: VL040110.D
Acq: 19 Jan 2023 12:59

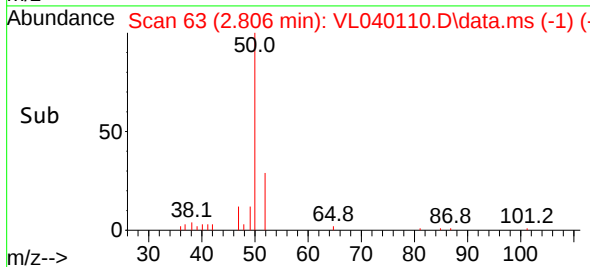
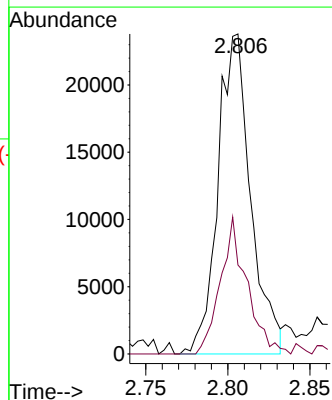
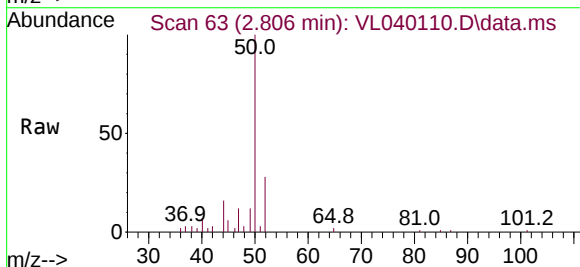
Instrument :
MSVOA_L
ClientSampleId :
AP-1

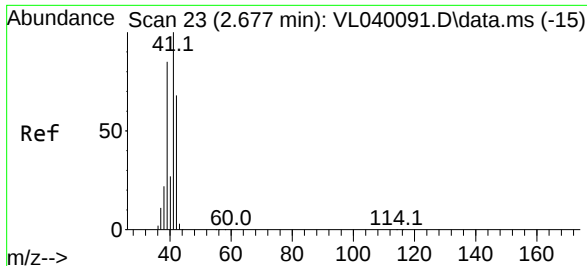
Tgt Ion: 51 Resp: 69755
Ion Ratio Lower Upper
51 100
67 14.9 16.4 24.6#



#4
Chloromethane
Concen: 0.435 ppbv
RT: 2.806 min Scan# 63
Delta R.T. 0.007 min
Lab File: VL040110.D
Acq: 19 Jan 2023 12:59

Tgt Ion: 50 Resp: 32936
Ion Ratio Lower Upper
50 100
52 27.8 26.5 39.7





#9

Propene

Concen: 1.228 ppbv

RT: 2.861 min Scan# 80

Delta R.T. 0.183 min

Lab File: VL040110.D

Acq: 19 Jan 2023 12:59

Instrument :

MSVOA_L

ClientSampleId :

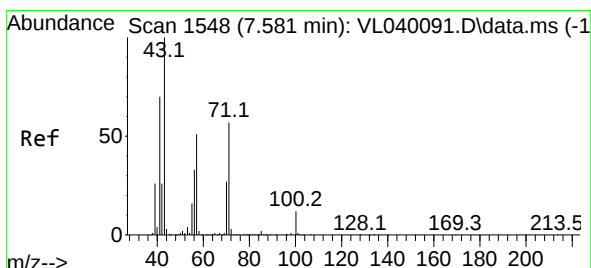
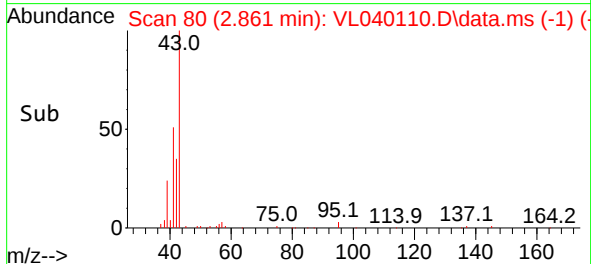
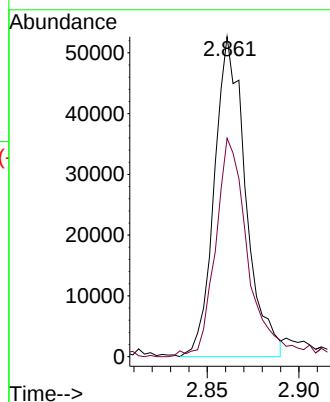
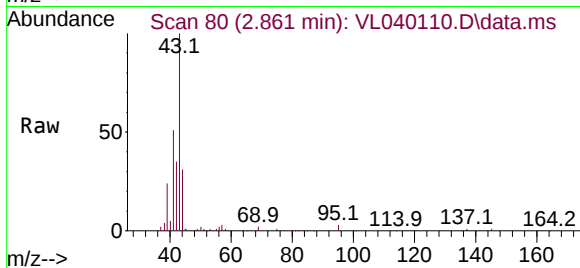
AP-1

Tgt Ion: 41 Resp: 62503

Ion Ratio Lower Upper

41 100

42 73.9 55.6 83.4



#10

Heptane

Concen: 0.067 ppbv

RT: 7.581 min Scan# 1548

Delta R.T. 0.000 min

Lab File: VL040110.D

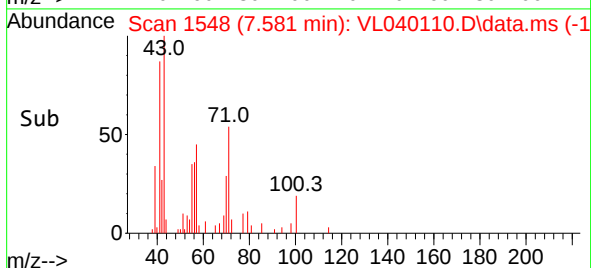
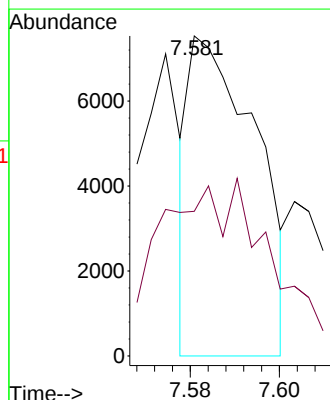
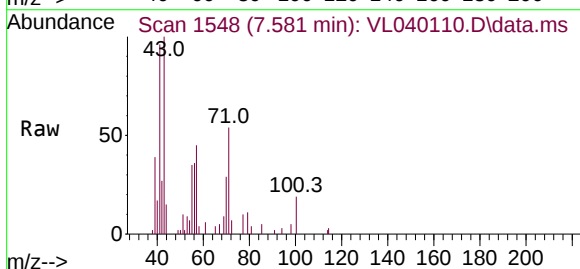
Acq: 19 Jan 2023 12:59

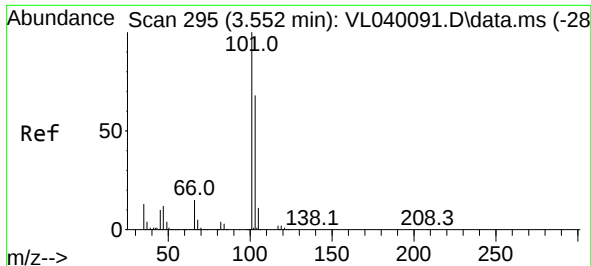
Tgt Ion: 43 Resp: 7837

Ion Ratio Lower Upper

43 100

57 106.6 40.9 61.3#

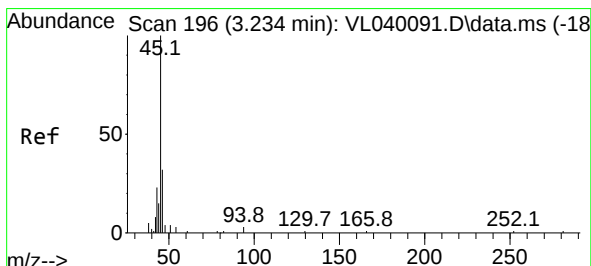
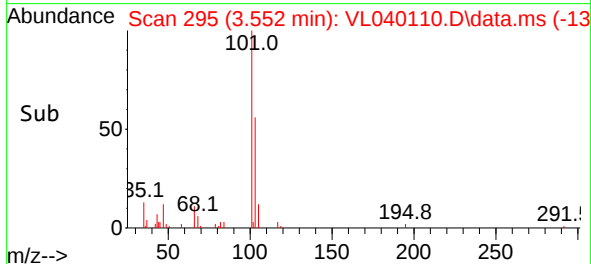
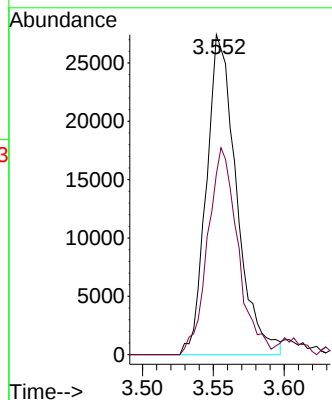
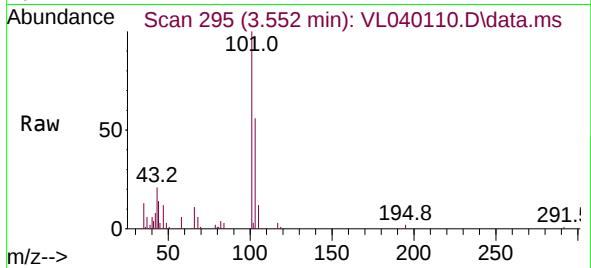




#11
 Trichlorofluoromethane
 Concen: 0.226 ppbv
 RT: 3.552 min Scan# 295
 Delta R.T. 0.000 min
 Lab File: VL040110.D
 Acq: 19 Jan 2023 12:59

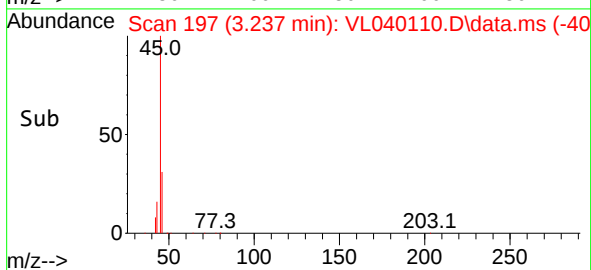
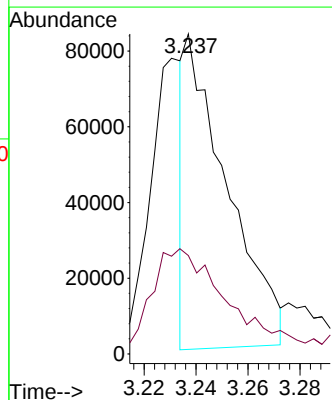
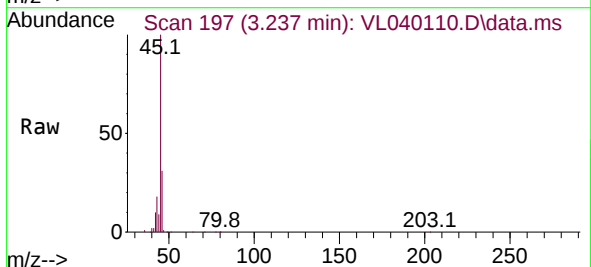
Instrument :
 MSVOA_L
 ClientSampleId :
 AP-1

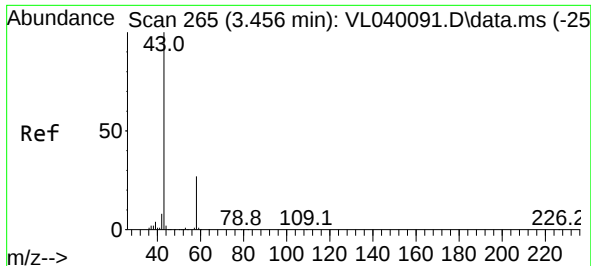
Tgt Ion:101 Resp: 40445
 Ion Ratio Lower Upper
 101 100
 103 56.5 54.0 81.0



#13
 Ethanol
 Concen: 19.997 ppbv
 RT: 3.237 min Scan# 197
 Delta R.T. 0.003 min
 Lab File: VL040110.D
 Acq: 19 Jan 2023 12:59

Tgt Ion: 45 Resp: 93646
 Ion Ratio Lower Upper
 45 100
 46 66.8 14.8 59.2#

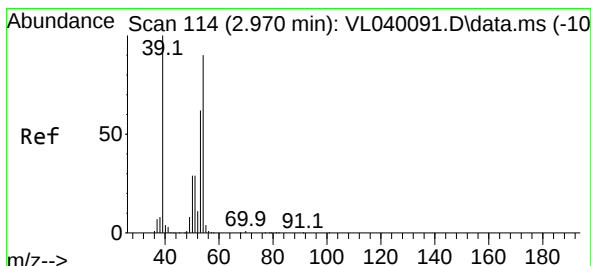
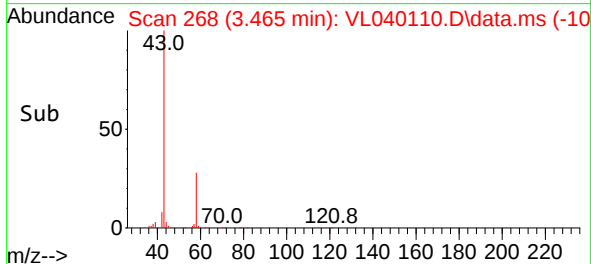
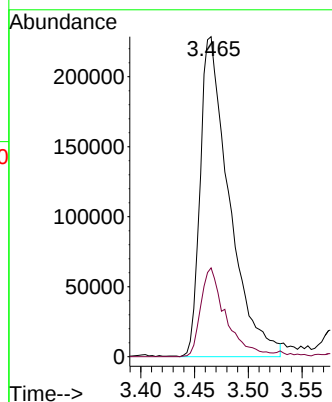
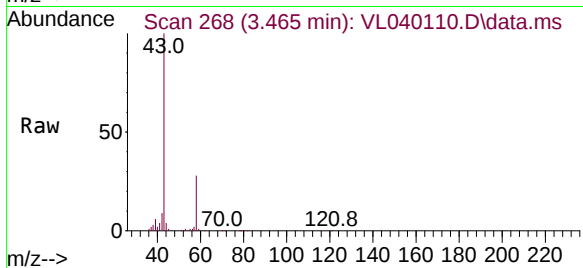




#15
Acetone
Concen: 3.497 ppbv
RT: 3.465 min Scan# 20
Delta R.T. 0.010 min
Lab File: VL040110.D
Acq: 19 Jan 2023 12:59

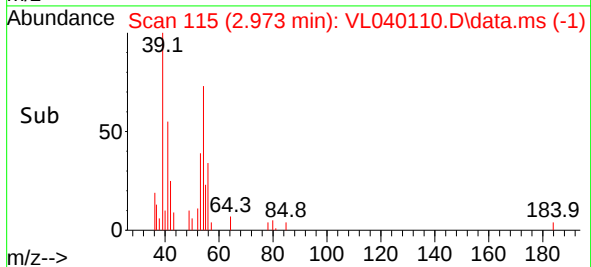
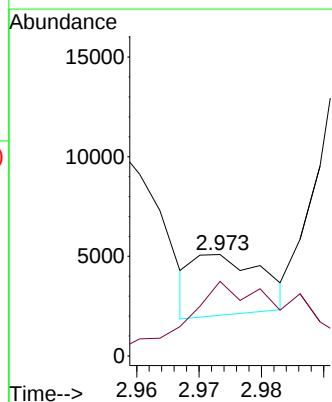
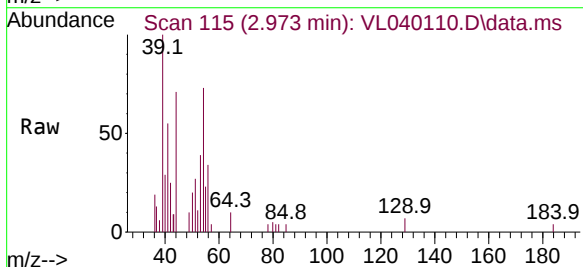
Instrument :
MSVOA_L
ClientSampleId :
AP-1

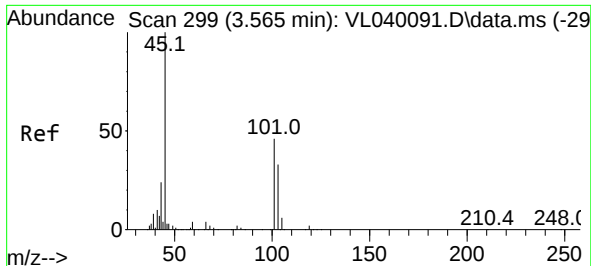
Tgt Ion: 43 Resp: 428258
Ion Ratio Lower Upper
43 100
58 25.0 21.8 32.8



#16
1,3-Butadiene
Concen: 0.041 ppbv
RT: 2.973 min Scan# 115
Delta R.T. 0.003 min
Lab File: VL040110.D
Acq: 19 Jan 2023 12:59

Tgt Ion: 39 Resp: 2355
Ion Ratio Lower Upper
39 100
54 270.8 67.9 101.9#





#19

Isopropyl Alcohol

Concen: 2.087 ppbv

RT: 3.581 min Scan# 304

Delta R.T. 0.016 min

Lab File: VL040110.D

Acq: 19 Jan 2023 12:59

Instrument :

MSVOA_L

ClientSampleId :

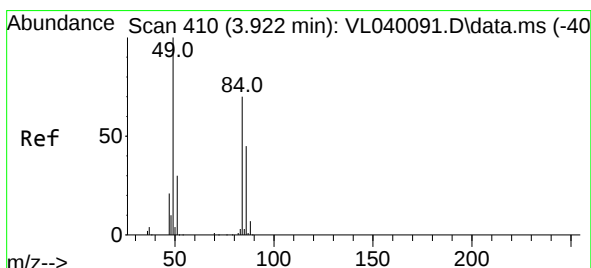
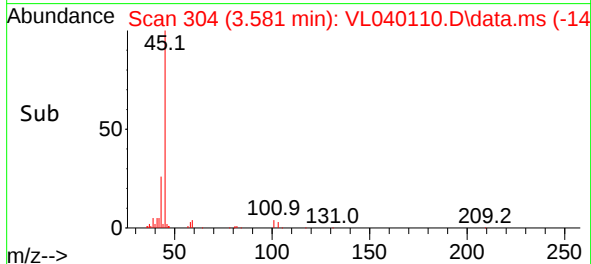
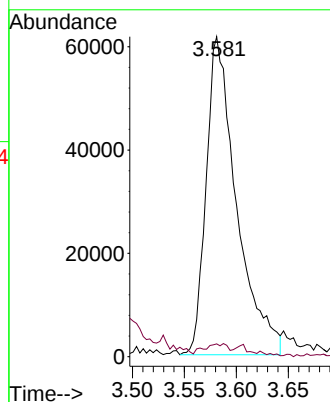
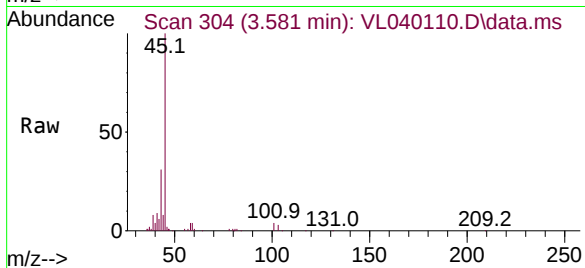
AP-1

Tgt Ion: 45 Resp: 125022

Ion Ratio Lower Upper

45 100

58 5.7 2.6 4.0#



#20

Methylene Chloride

Concen: 10.023 ppbv

RT: 3.925 min Scan# 411

Delta R.T. 0.003 min

Lab File: VL040110.D

Acq: 19 Jan 2023 12:59

Tgt Ion: 84 Resp: 541457

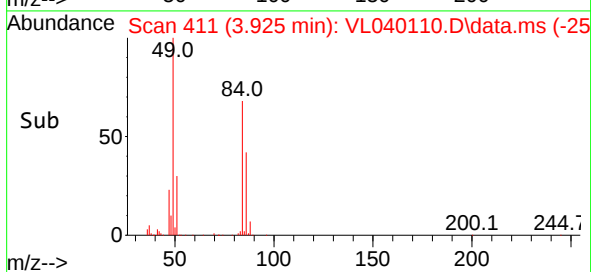
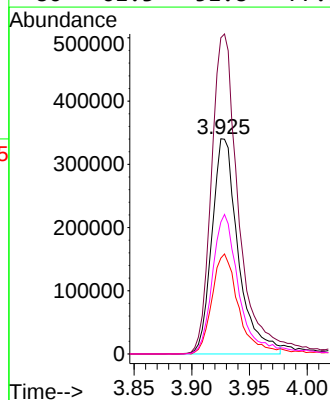
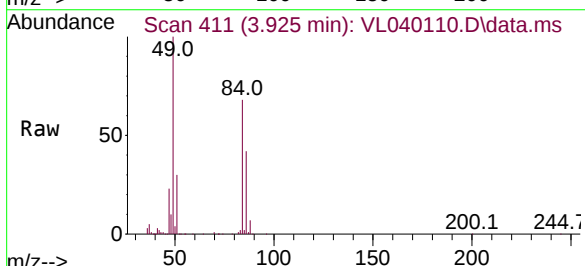
Ion Ratio Lower Upper

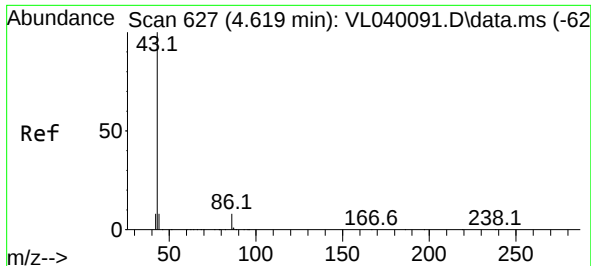
84 100

49 146.8 114.6 171.8

51 44.4 34.3 51.5

86 61.3 51.8 77.8

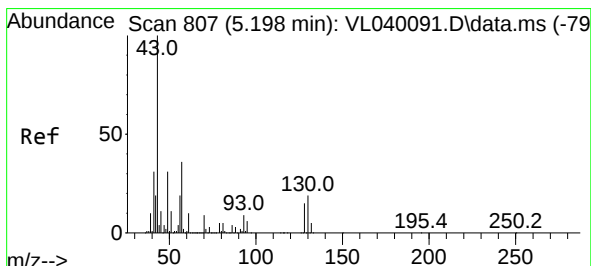
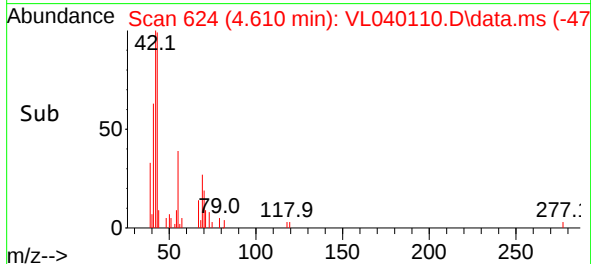
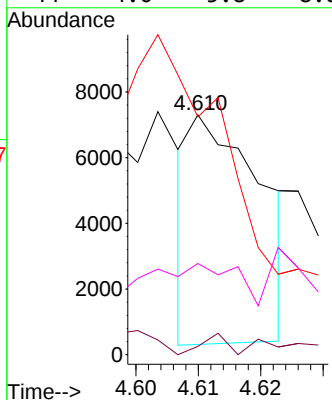
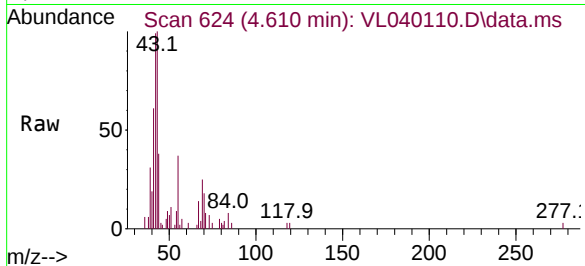




#23
 Vinyl Acetate
 Concen: 0.138 ppbv
 RT: 4.610 min Scan# 61
 Delta R.T. -0.010 min
 Lab File: VL040110.D
 Acq: 19 Jan 2023 12:59

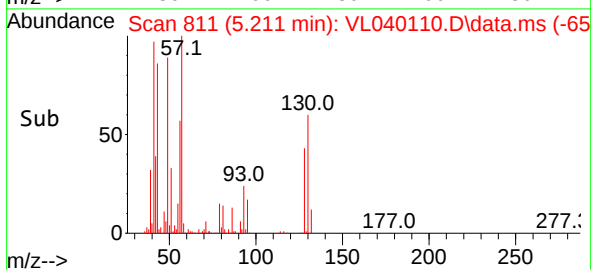
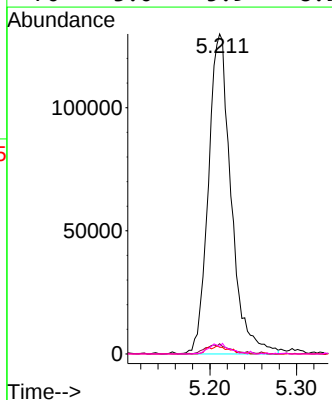
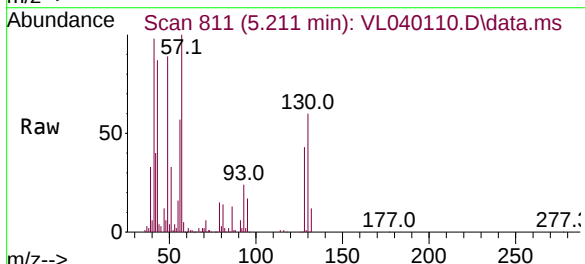
Instrument :
 MSVOA_L
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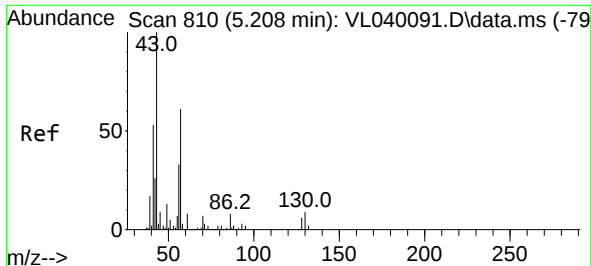
Tgt Ion:	43	Resp:	5488
Ion	Ratio	Lower	Upper
43	100		
86	11.0	5.6	8.4#
42	207.5	7.7	11.5#
44	4.0	5.8	8.8#



#25
 Ethyl Acetate
 Concen: 1.097 ppbv
 RT: 5.211 min Scan# 811
 Delta R.T. 0.013 min
 Lab File: VL040110.D
 Acq: 19 Jan 2023 12:59

Tgt Ion:	43	Resp:	236652
Ion	Ratio	Lower	Upper
43	100		
45	3.4	8.5	12.7#
61	2.5	8.4	12.6#
70	3.0	5.9	8.9#

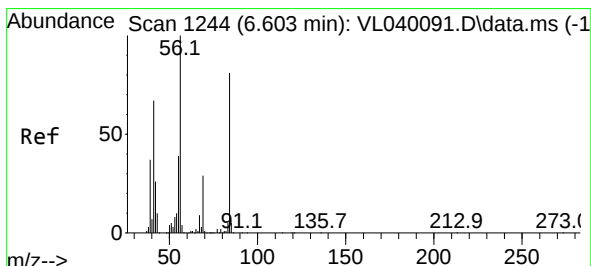
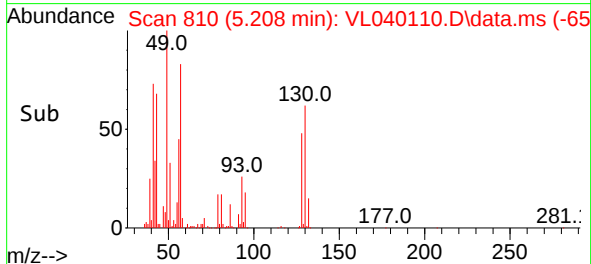
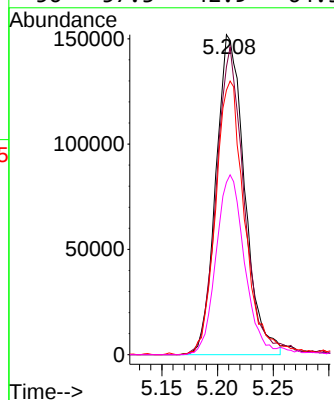
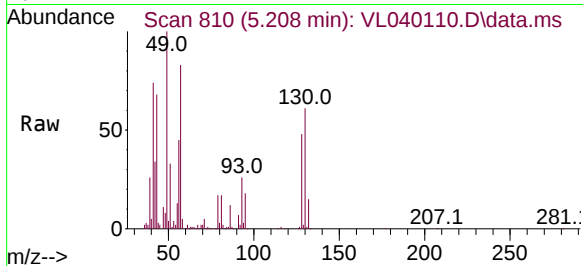




#26
Hexane
Concen: 2.877 ppbv
RT: 5.208 min Scan# 810
Delta R.T. 0.000 min
Lab File: VL040110.D
Acq: 19 Jan 2023 12:59

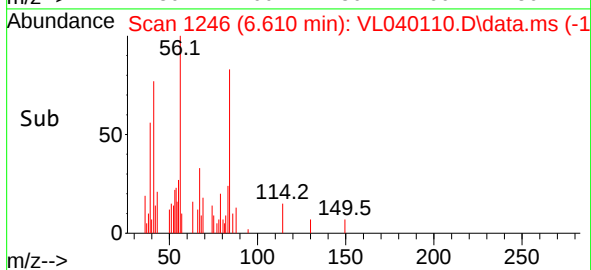
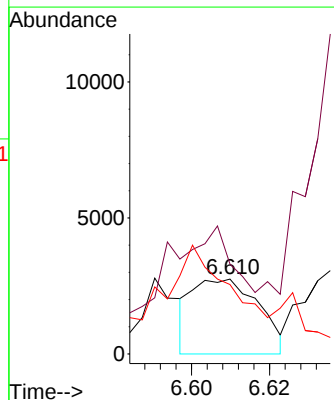
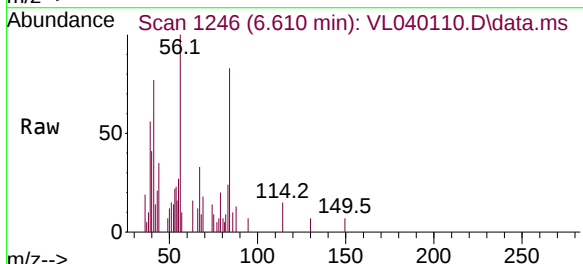
Instrument :
MSVOA_L
ClientSampleId :
AP-1

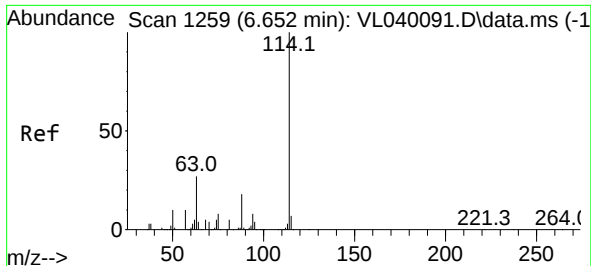
Tgt Ion: 57 Resp: 271610
Ion Ratio Lower Upper
57 100
41 94.9 72.2 108.4
43 89.0 192.1 288.1#
56 57.3 42.9 64.3



#30
Cyclohexane
Concen: 0.043 ppbv
RT: 6.610 min Scan# 1246
Delta R.T. 0.007 min
Lab File: VL040110.D
Acq: 19 Jan 2023 12:59

Tgt Ion: 84 Resp: 3252
Ion Ratio Lower Upper
84 100
56 0.0 111.5 167.3#
41 248.1 71.4 107.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.655 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL040110.D

Acq: 19 Jan 2023 12:59

Instrument :

MSVOA_L

ClientSampleId :

AP-1

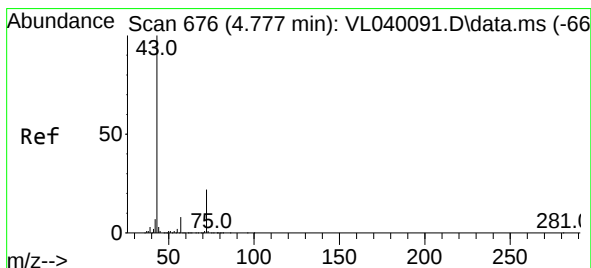
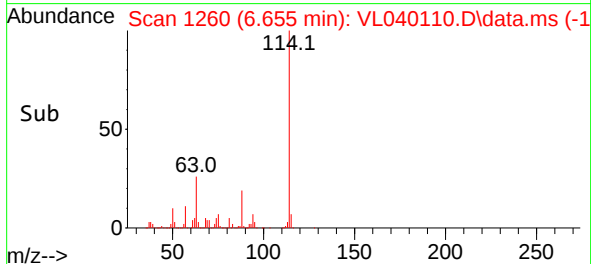
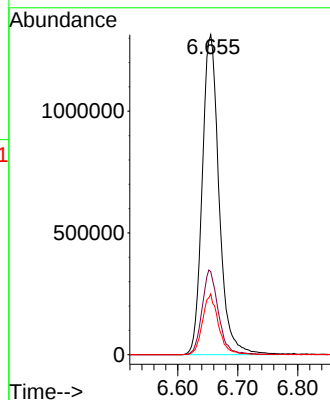
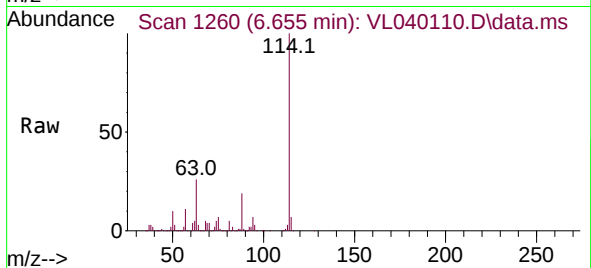
Tgt Ion:114 Resp: 2570723

Ion Ratio Lower Upper

114 100

63 25.8 21.8 32.8

88 18.1 14.8 22.2



#34

2-Butanone

Concen: 0.265 ppbv

RT: 4.800 min Scan# 683

Delta R.T. 0.023 min

Lab File: VL040110.D

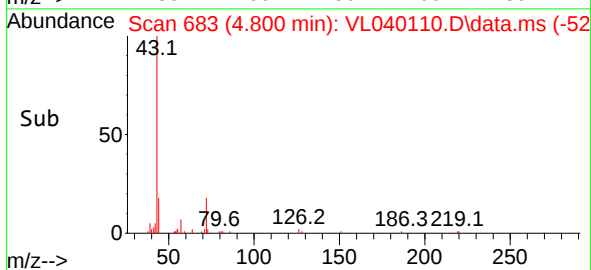
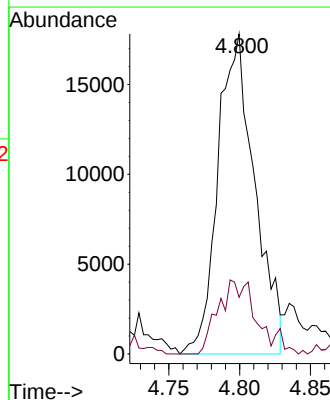
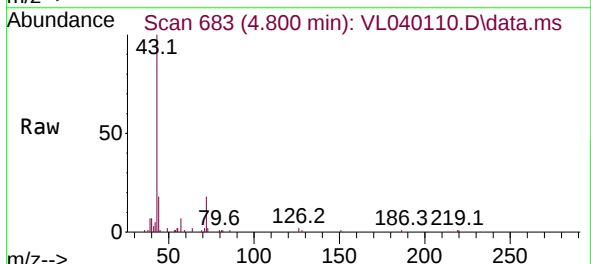
Acq: 19 Jan 2023 12:59

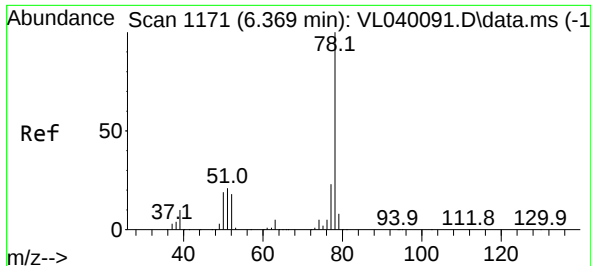
Tgt Ion: 43 Resp: 32247

Ion Ratio Lower Upper

43 100

72 24.5 18.4 27.6

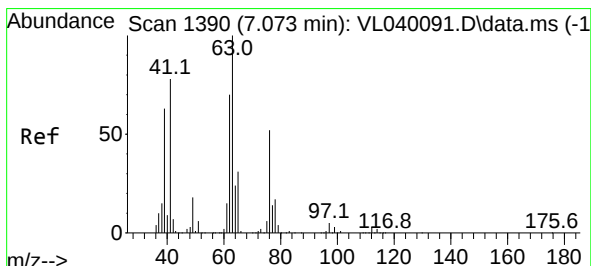
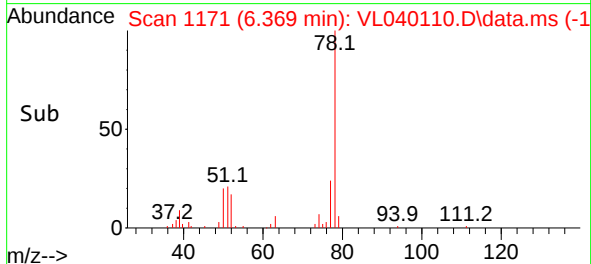
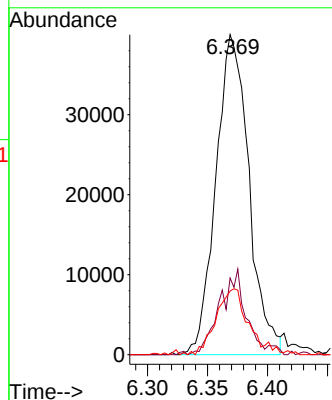
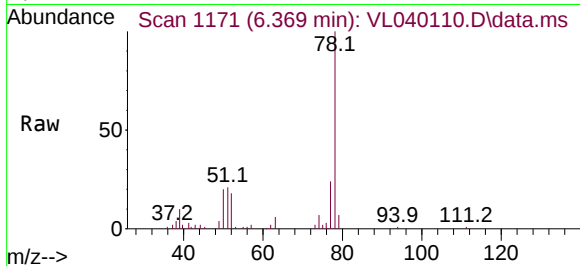




#36
Benzene
Concen: 0.402 ppbv
RT: 6.369 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VL040110.D
Acq: 19 Jan 2023 12:59

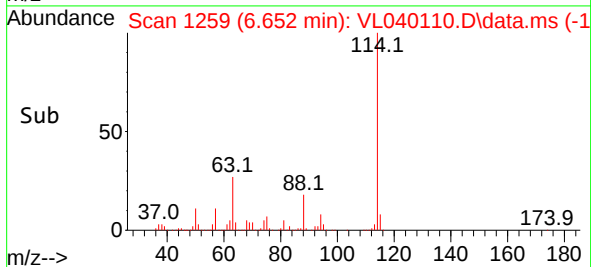
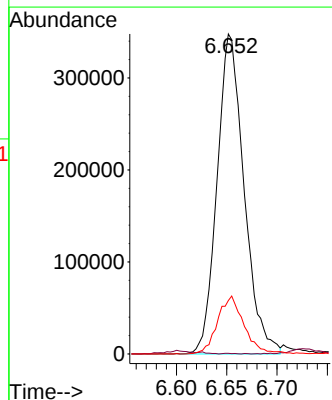
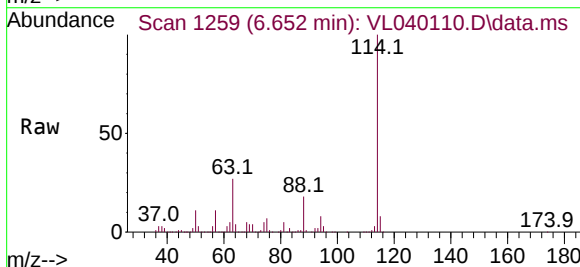
Instrument :
MSVOA_1
ClientSampleId :
AP-1

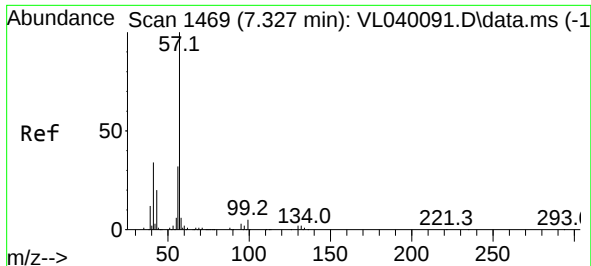
Tgt Ion: 78 Resp: 76432
Ion Ratio Lower Upper
78 100
77 23.3 18.1 27.1
50 19.9 15.6 23.4



#39
1,2-Dichloropropane
Concen: 8.727 ppbv
RT: 6.652 min Scan# 1259
Delta R.T. -0.421 min
Lab File: VL040110.D
Acq: 19 Jan 2023 12:59

Tgt Ion: 63 Resp: 649375
Ion Ratio Lower Upper
63 100
41 0.0 62.2 93.4#
62 16.7 55.8 83.8#





#44

2,2,4-Trimethylpentane

Concen: 0.106 ppbv

RT: 7.333 min Scan# 1469

Delta R.T. 0.007 min

Lab File: VL040110.D

Acq: 19 Jan 2023 12:59

Instrument :

MSVOA_L

ClientSampleId :

AP-1

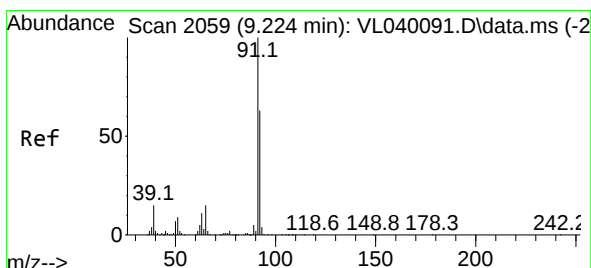
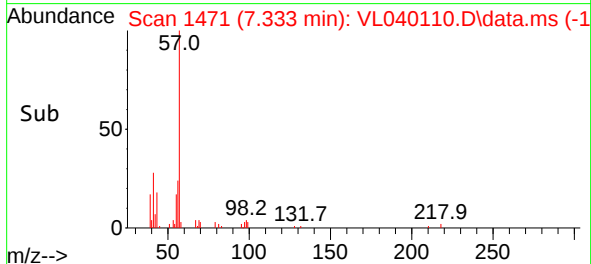
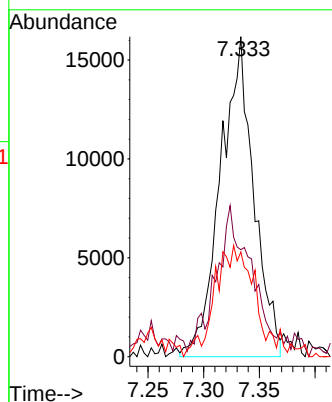
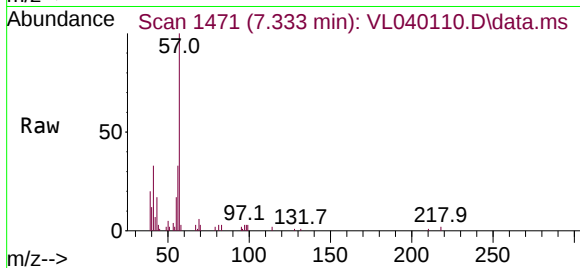
Tgt Ion: 57 Resp: 33603

Ion Ratio Lower Upper

57 100

41 58.1 27.1 40.7#

56 45.2 25.0 37.4#



#53

Toluene

Concen: 0.794 ppbv

RT: 9.221 min Scan# 2058

Delta R.T. -0.003 min

Lab File: VL040110.D

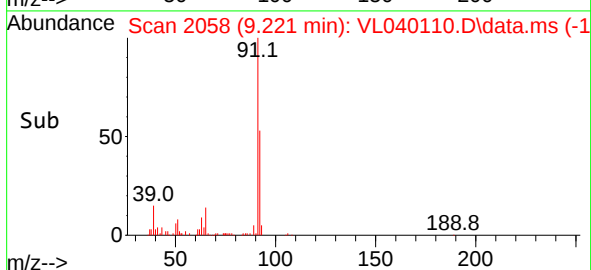
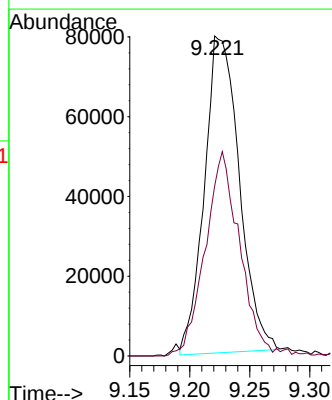
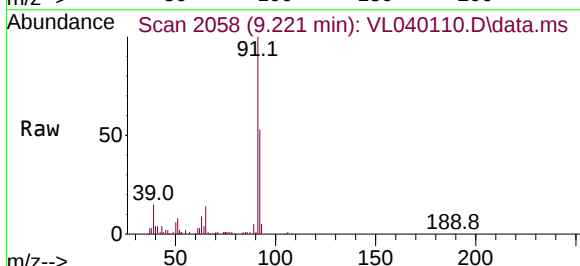
Acq: 19 Jan 2023 12:59

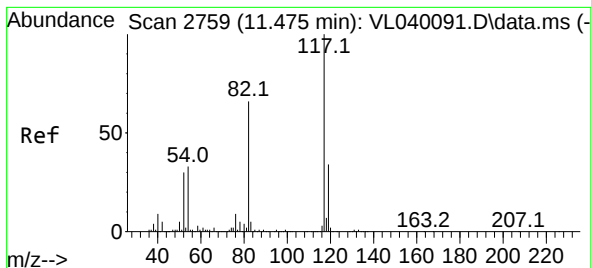
Tgt Ion: 91 Resp: 161019

Ion Ratio Lower Upper

91 100

92 64.7 48.3 72.5

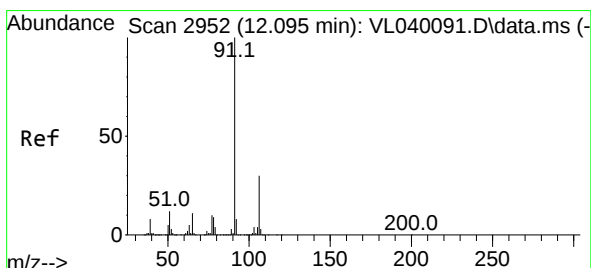
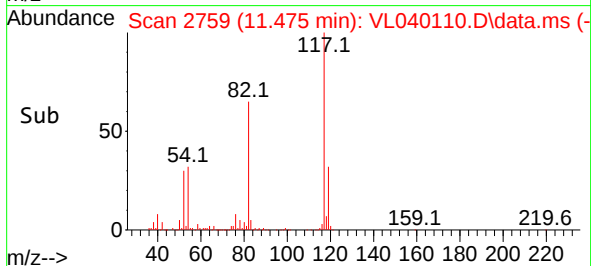
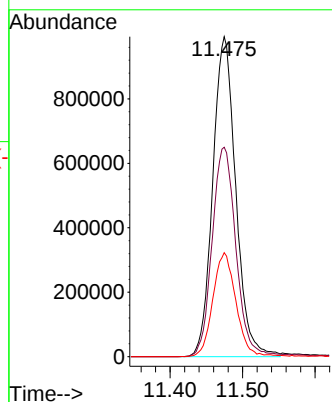
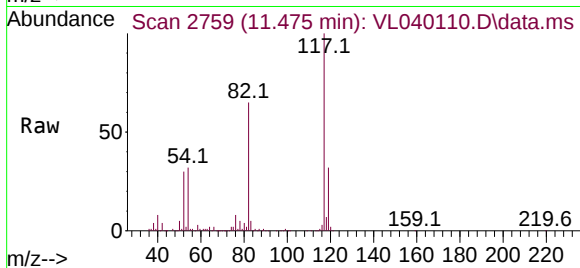




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.475 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL040110.D
Acq: 19 Jan 2023 12:59

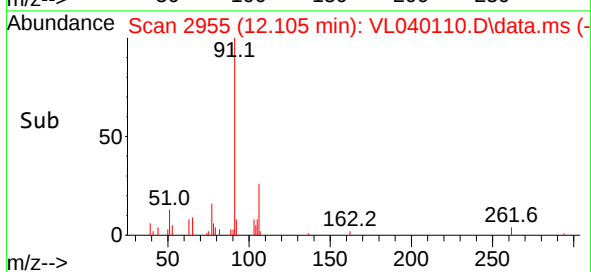
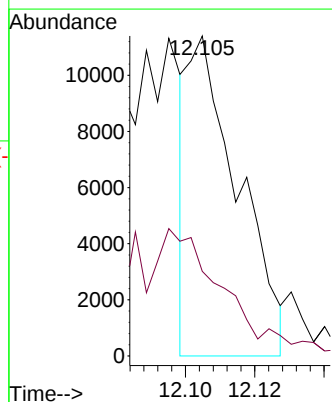
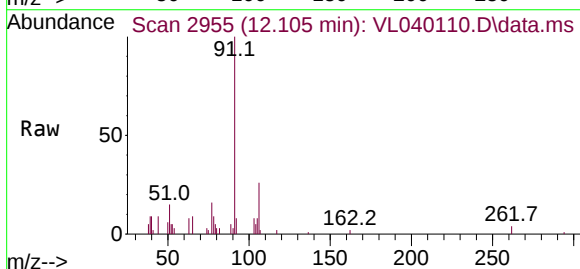
Instrument :
MSVOA_1
ClientSampleId :
AP-1

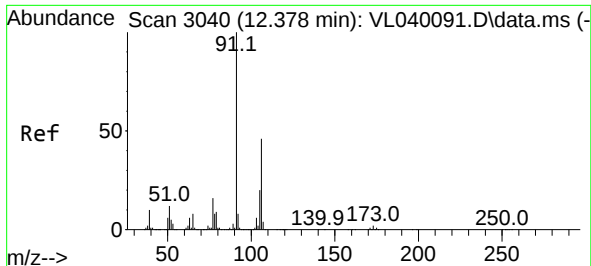
Tgt Ion:117 Resp: 2189540
Ion Ratio Lower Upper
117 100
82 68.5 54.4 81.6
119 32.9 26.8 40.2



#58
Ethyl Benzene
Concen: 0.047 ppbv
RT: 12.105 min Scan# 2955
Delta R.T. 0.010 min
Lab File: VL040110.D
Acq: 19 Jan 2023 12:59

Tgt Ion: 91 Resp: 11471
Ion Ratio Lower Upper
91 100
106 25.7 23.7 35.5





#59

m/p-Xylene

Concen: 0.037 ppbv

RT: 12.381 min Scan# 3040

Delta R.T. 0.003 min

Lab File: VL040110.D

Acq: 19 Jan 2023 12:59

Instrument :

MSVOA_L

ClientSampleId :

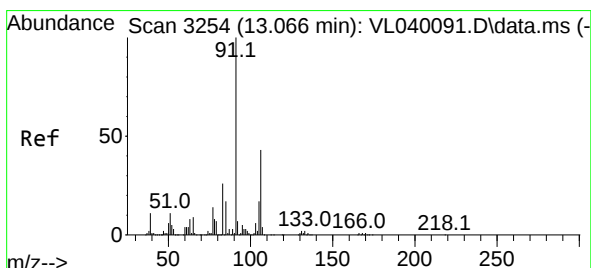
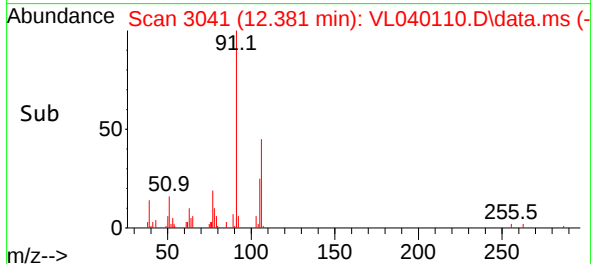
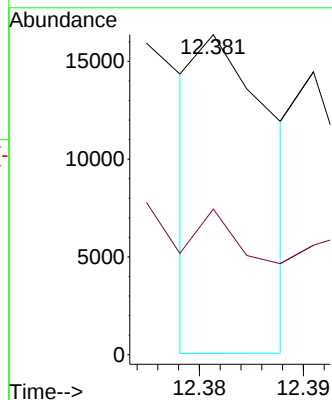
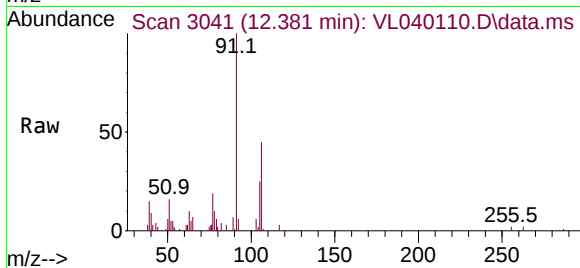
AP-1

Tgt Ion: 91 Resp: 8046

Ion Ratio Lower Upper

91 100

106 0.0 34.2 51.4#



#60

o-Xylene

Concen: 0.033 ppbv

RT: 13.066 min Scan# 3254

Delta R.T. 0.000 min

Lab File: VL040110.D

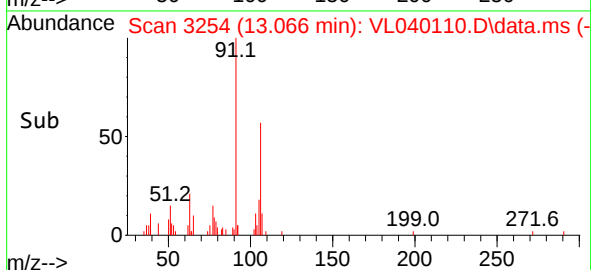
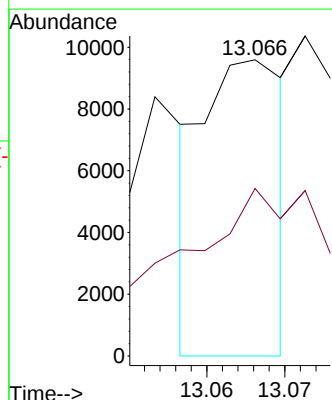
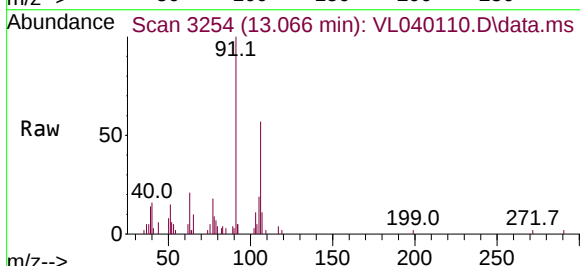
Acq: 19 Jan 2023 12:59

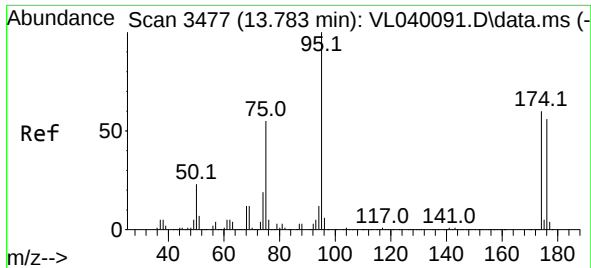
Tgt Ion: 91 Resp: 6853

Ion Ratio Lower Upper

91 100

106 169.5 21.6 64.8#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.593 ppbv
 RT: 13.786 min Scan# 34
 Delta R.T. 0.003 min
 Lab File: VL040110.D
 Acq: 19 Jan 2023 12:59

Instrument :
 MSVOA_L
 ClientSampleId :
 AP-1

Tgt Ion: 95 Resp: 1745641
 Ion Ratio Lower Upper
 95 100
 174 58.8 47.7 71.5
 175 4.4 3.4 5.2

