

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122022\
 Data File : VL040056.D
 Acq On : 20 Dec 2022 14:39
 Operator : SY/MD
 Sample : N6085-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

Quant Time: Dec 21 03:55:30 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121922AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Dec 20 04:50:21 2022
 Response via : Initial Calibration

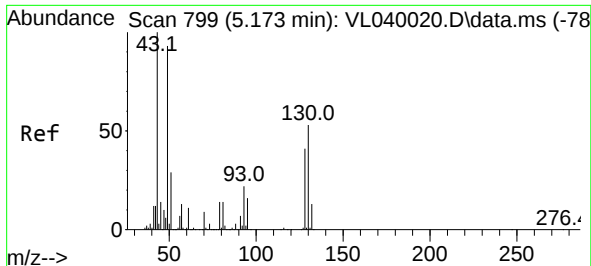
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.166	49	890448	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.626	114	2354637	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.442	117	2044148	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.754	95	1571882	10.067	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.700%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.706	85	39081	0.234	ppbv	99
3) Chlorodifluoromethane	2.652	51	46000	0.350	ppbv #	88
4) Chloromethane	2.790	50	29532	0.359	ppbv	92
9) Propene	2.848	41	326296	5.852	ppbv	95
10) Heptane	7.552	43	4968	0.037	ppbv #	1
11) Trichlorofluoromethane	3.539	101	37441	0.207	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.038	101	8679	0.063	ppbv	94
13) Ethanol	3.211	45	1469116	279.964	ppbv	98
15) Acetone	3.446	43	426937	3.099	ppbv	95
16) 1,3-Butadiene	2.938	39	9241	0.154	ppbv #	50
19) Isopropyl Alcohol	3.555	45	493231	7.266	ppbv #	96
20) Methylene Chloride	3.909	84	196890	3.363	ppbv	95
21) Allyl Chloride	3.867	41	3917	0.047	ppbv #	49
23) Vinyl Acetate	4.597	43	2818	0.065	ppbv #	1
25) Ethyl Acetate	5.185	43	139597	0.585	ppbv #	78
26) Hexane	5.185	57	197890	1.974	ppbv #	37
34) 2-Butanone	4.764	43	14653	0.115	ppbv #	51
35) Carbon Tetrachloride	6.468	117	5661	0.039	ppbv #	30
36) Benzene	6.343	78	38151	0.181	ppbv #	94
39) 1,2-Dichloropropane	6.629	63	587146	7.449	ppbv #	23
53) Toluene	9.192	91	65295	0.280	ppbv	97

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

Quant Time: Dec 21 03:55:30 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121922AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Dec 20 04:50:21 2022
Response via : Initial Calibration

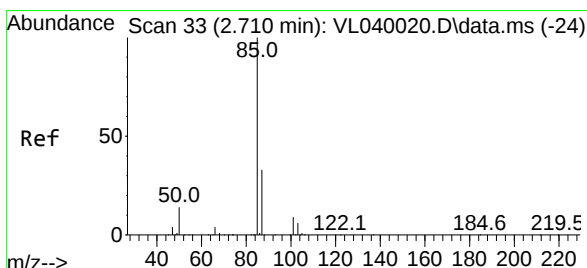
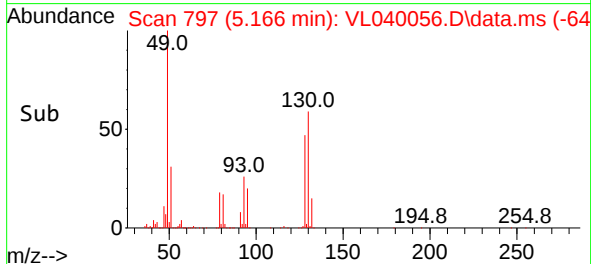
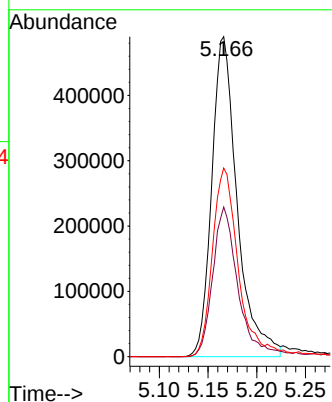
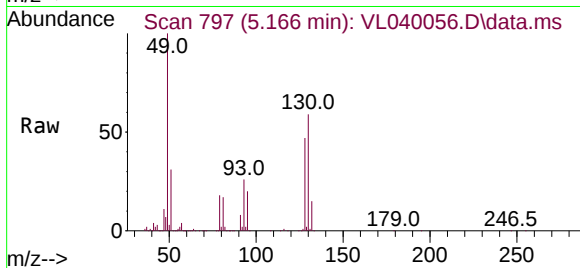




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.166 min Scan# 799
 Delta R.T. -0.007 min
 Lab File: VL040056.D
 Acq: 20 Dec 2022 14:39

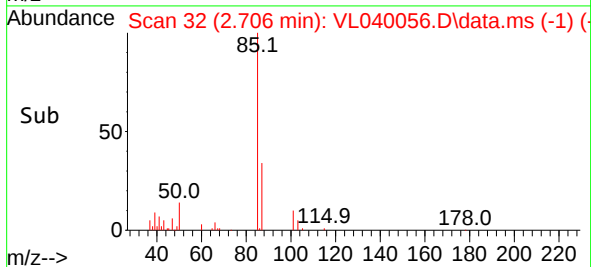
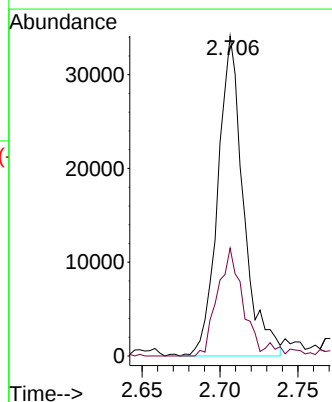
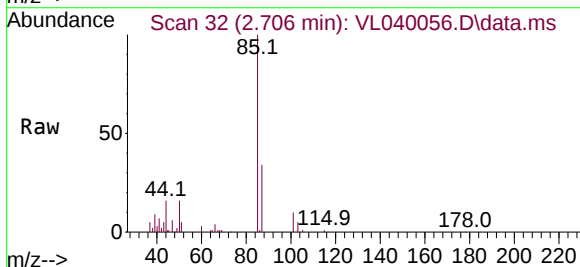
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

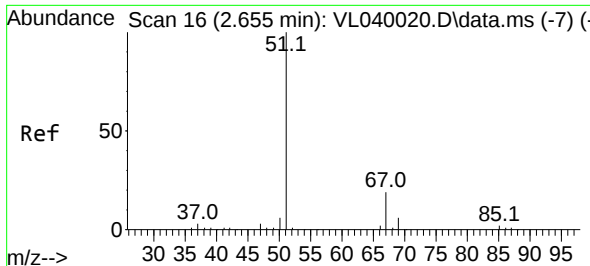
Tgt Ion: 49 Resp: 890448
 Ion Ratio Lower Upper
 49 100
 128 47.9 22.4 67.3
 130 62.4 28.9 86.8



#2
 Dichlorodifluoromethane
 Concen: 0.234 ppbv
 RT: 2.706 min Scan# 32
 Delta R.T. -0.003 min
 Lab File: VL040056.D
 Acq: 20 Dec 2022 14:39

Tgt Ion: 85 Resp: 39081
 Ion Ratio Lower Upper
 85 100
 87 33.7 26.6 40.0

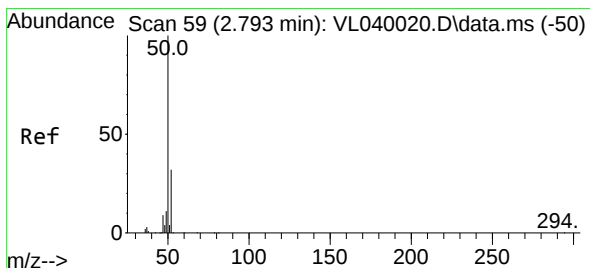
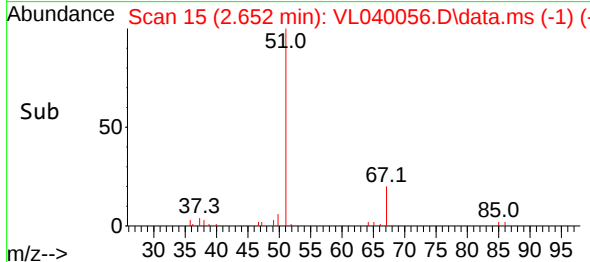
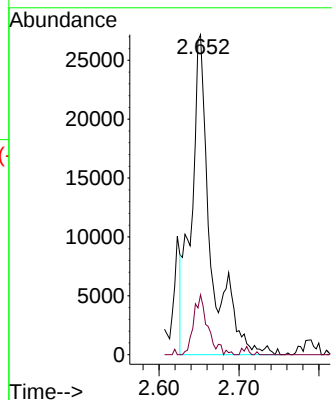
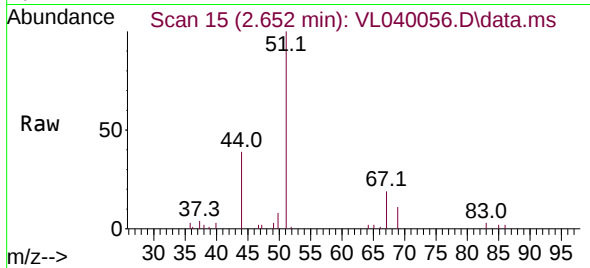




#3
Chlorodifluoromethane
Concen: 0.350 ppbv
RT: 2.652 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL040056.D
Acq: 20 Dec 2022 14:39

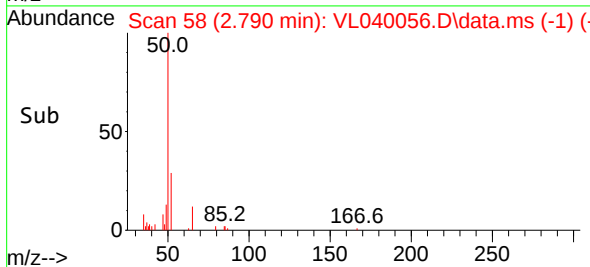
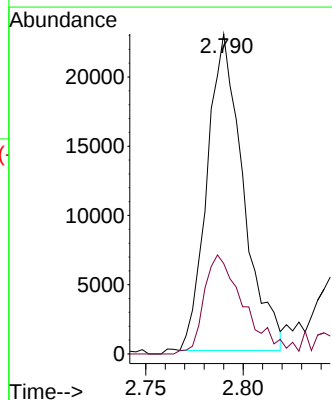
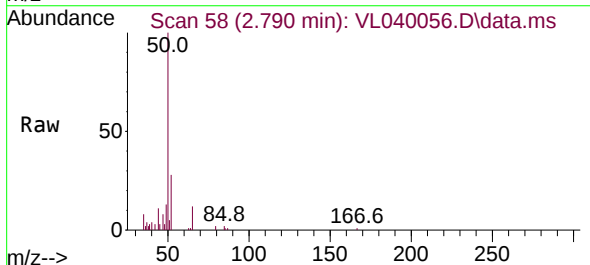
Instrument :
MSVOA_L
ClientSampleId :
IA-1

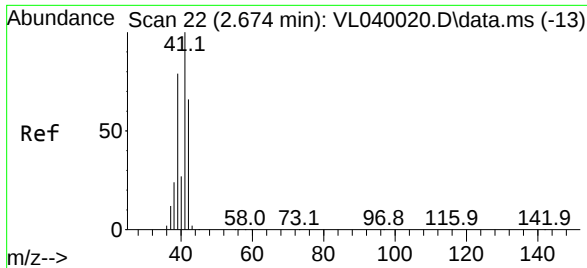
Tgt Ion: 51 Resp: 46000
Ion Ratio Lower Upper
51 100
67 13.6 15.3 22.9#



#4
Chloromethane
Concen: 0.359 ppbv
RT: 2.790 min Scan# 58
Delta R.T. -0.003 min
Lab File: VL040056.D
Acq: 20 Dec 2022 14:39

Tgt Ion: 50 Resp: 29532
Ion Ratio Lower Upper
50 100
52 27.5 25.5 38.3

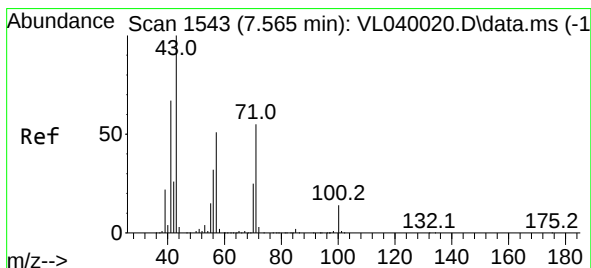
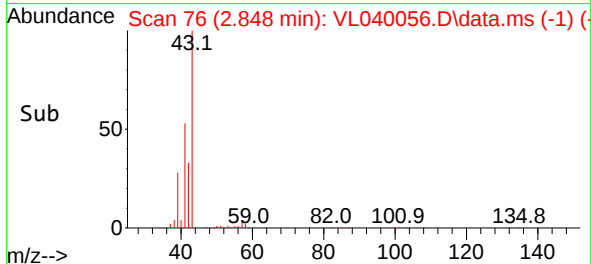
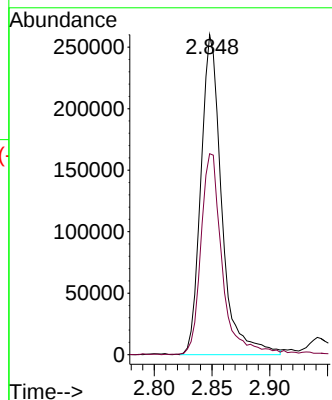
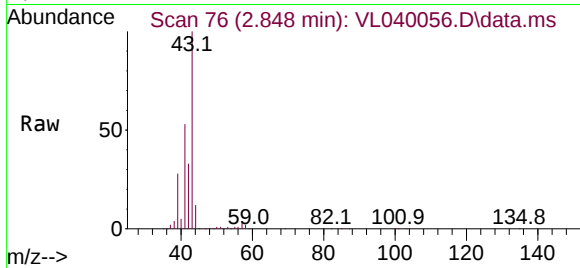




#9
 Propene
 Concen: 5.852 ppbv
 RT: 2.848 min Scan# 70
 Delta R.T. 0.174 min
 Lab File: VL040056.D
 Acq: 20 Dec 2022 14:39

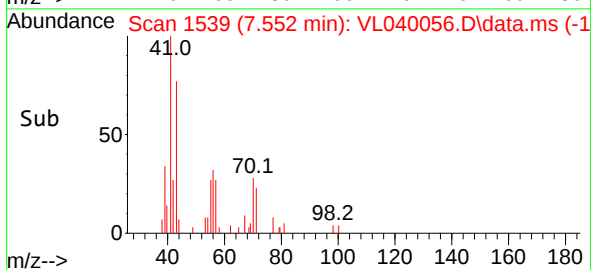
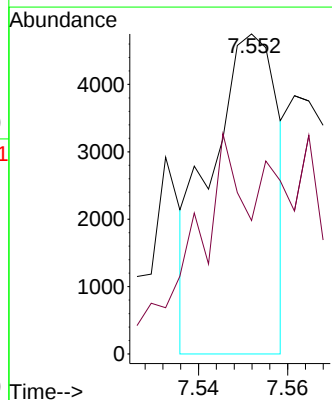
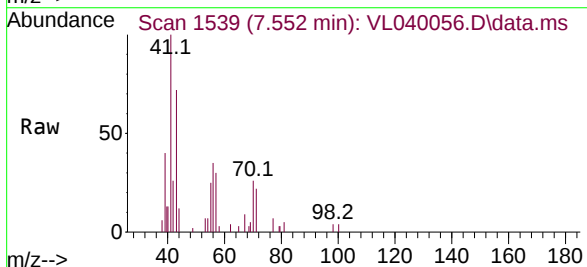
Instrument :
 MSVOA_1
 ClientSampleId :
 IA-1

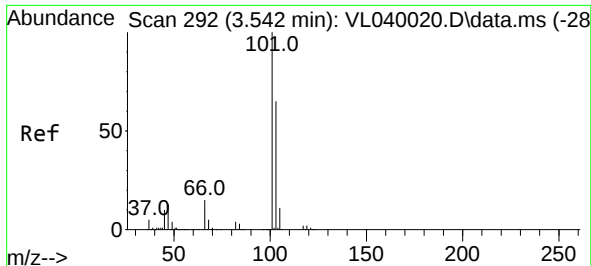
Tgt Ion: 41 Resp: 326296
 Ion Ratio Lower Upper
 41 100
 42 64.6 54.8 82.2



#10
 Heptane
 Concen: 0.037 ppbv
 RT: 7.552 min Scan# 1539
 Delta R.T. -0.013 min
 Lab File: VL040056.D
 Acq: 20 Dec 2022 14:39

Tgt Ion: 43 Resp: 4968
 Ion Ratio Lower Upper
 43 100
 57 130.3 41.2 61.8#

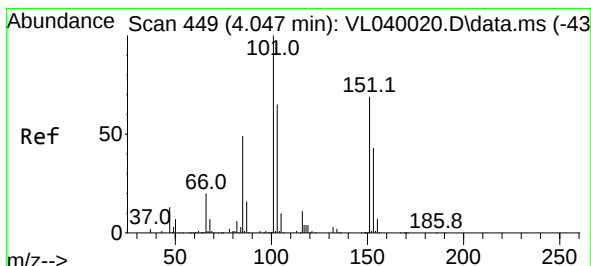
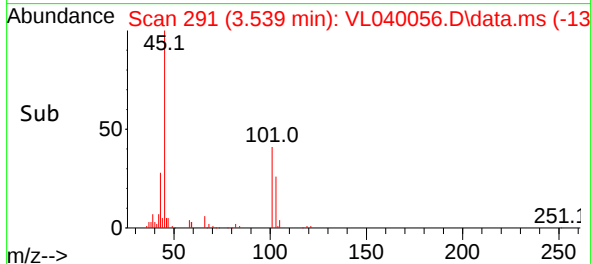
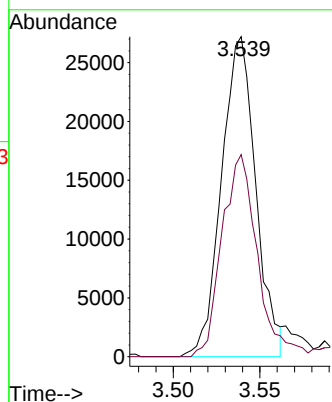
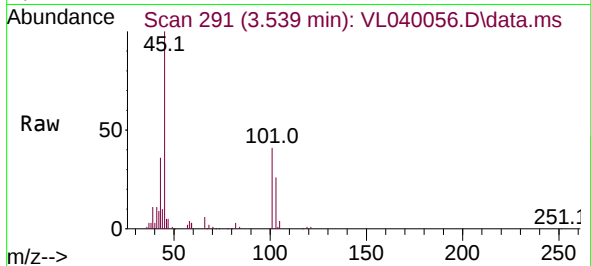




#11
 Trichlorofluoromethane
 Concen: 0.207 ppbv
 RT: 3.539 min Scan# 291
 Delta R.T. -0.003 min
 Lab File: VL040056.D
 Acq: 20 Dec 2022 14:39

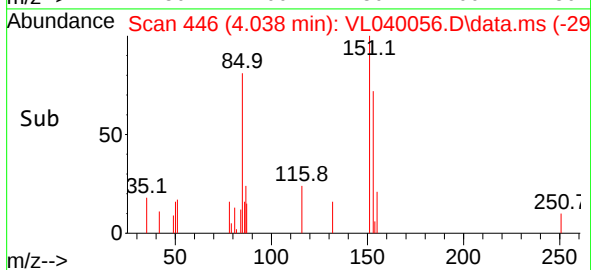
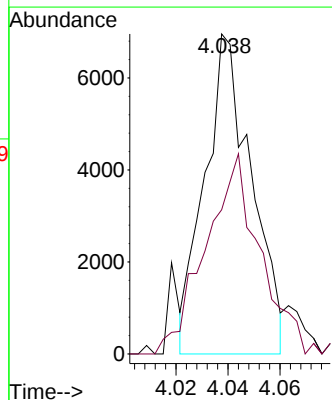
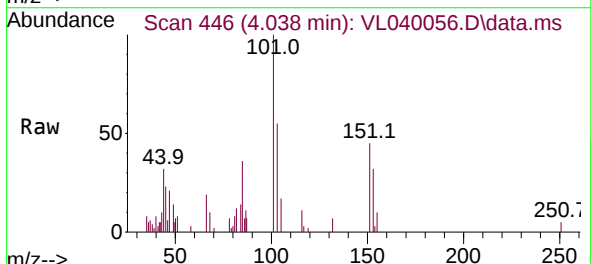
Instrument :
 MSVOA_1
 ClientSampleId :
 IA-1

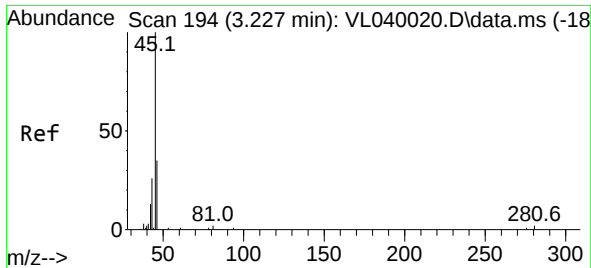
Tgt Ion:101 Resp: 37441
 Ion Ratio Lower Upper
 101 100
 103 63.1 51.7 77.5



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.063 ppbv
 RT: 4.038 min Scan# 446
 Delta R.T. -0.010 min
 Lab File: VL040056.D
 Acq: 20 Dec 2022 14:39

Tgt Ion:101 Resp: 8679
 Ion Ratio Lower Upper
 101 100
 151 73.3 55.0 82.4





#13

Ethanol

Concen: 279.964 ppbv

RT: 3.211 min Scan# 11

Delta R.T. -0.016 min

Lab File: VL040056.D

Acq: 20 Dec 2022 14:39

Instrument :

MSVOA_L

ClientSampleId :

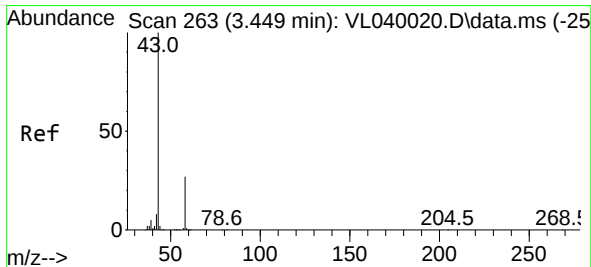
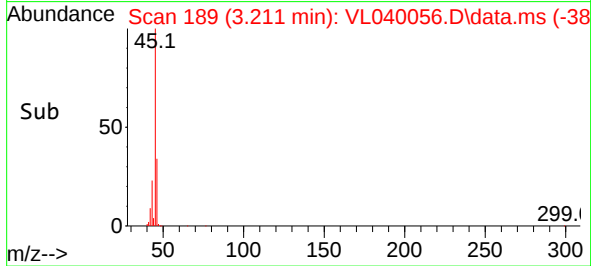
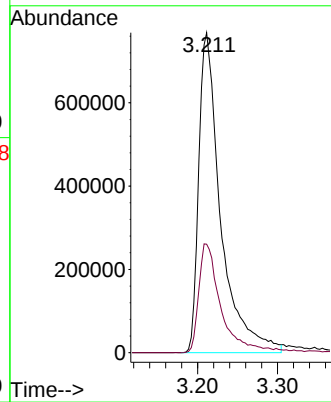
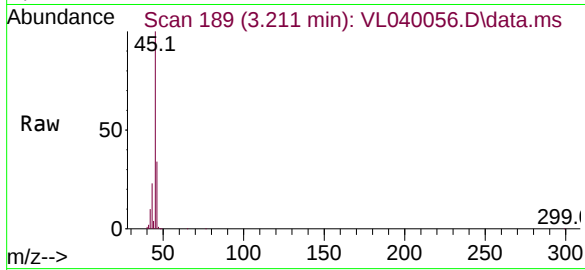
IA-1

Tgt Ion: 45 Resp: 1469116

Ion Ratio Lower Upper

45 100

46 35.5 13.7 54.7



#15

Acetone

Concen: 3.099 ppbv

RT: 3.446 min Scan# 262

Delta R.T. -0.003 min

Lab File: VL040056.D

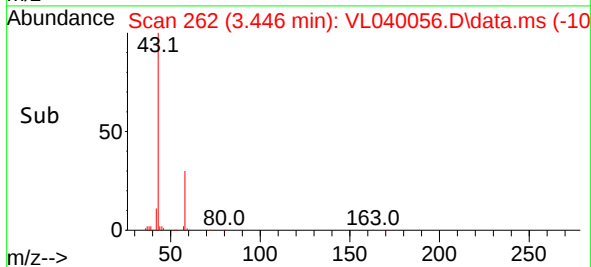
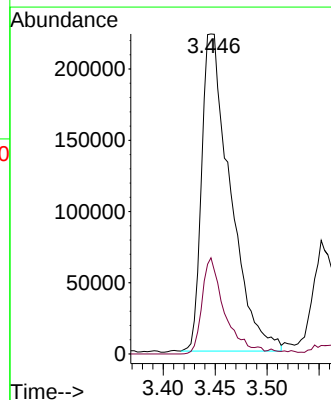
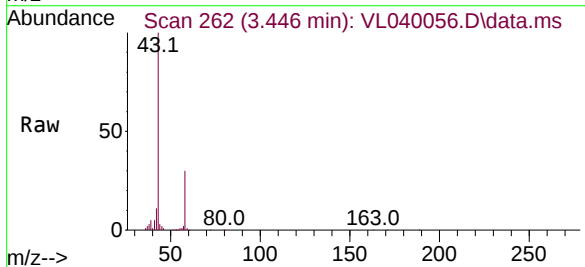
Acq: 20 Dec 2022 14:39

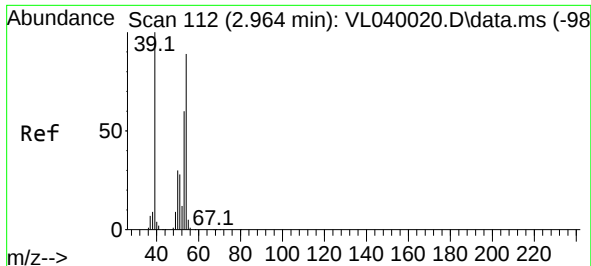
Tgt Ion: 43 Resp: 426937

Ion Ratio Lower Upper

43 100

58 24.8 21.8 32.8





#16

1,3-Butadiene

Concen: 0.154 ppbv

RT: 2.938 min Scan# 112

Delta R.T. -0.026 min

Lab File: VL040056.D

Acq: 20 Dec 2022 14:39

Instrument :

MSVOA_L

ClientSampleId :

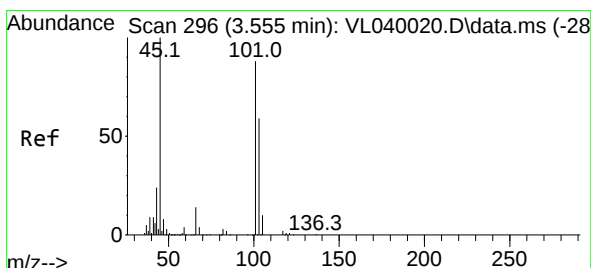
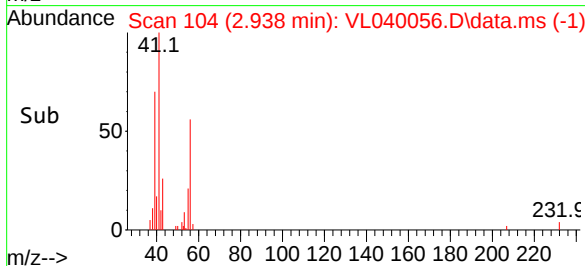
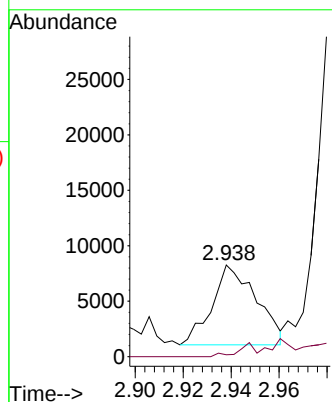
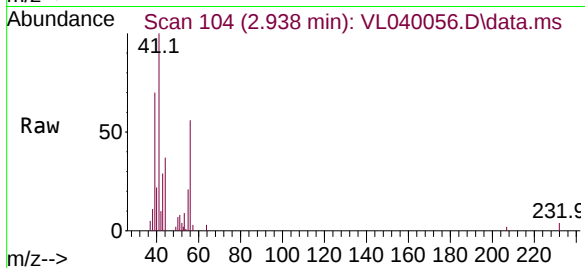
IA-1

Tgt Ion: 39 Resp: 9241

Ion Ratio Lower Upper

39 100

54 39.8 68.3 102.5#



#19

Isopropyl Alcohol

Concen: 7.266 ppbv

RT: 3.555 min Scan# 296

Delta R.T. 0.000 min

Lab File: VL040056.D

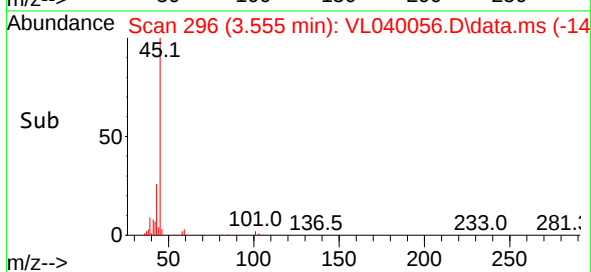
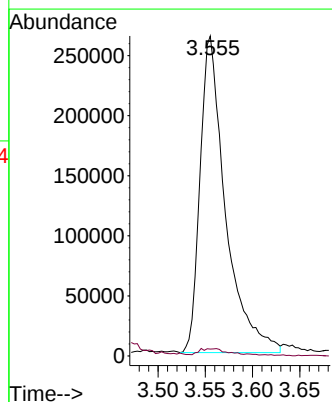
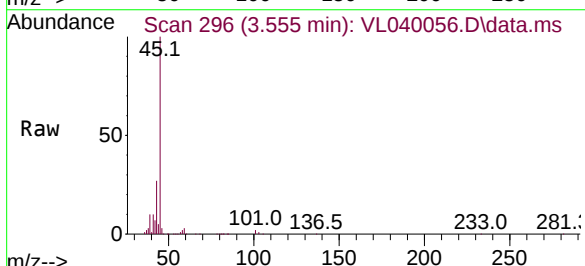
Acq: 20 Dec 2022 14:39

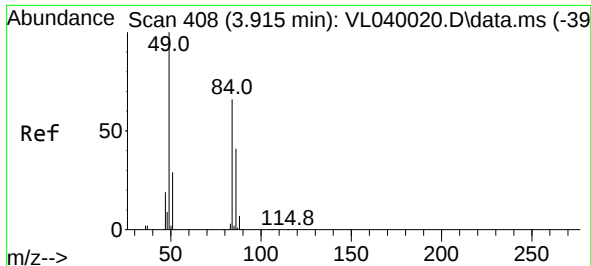
Tgt Ion: 45 Resp: 493231

Ion Ratio Lower Upper

45 100

58 3.4 1.7 2.5#



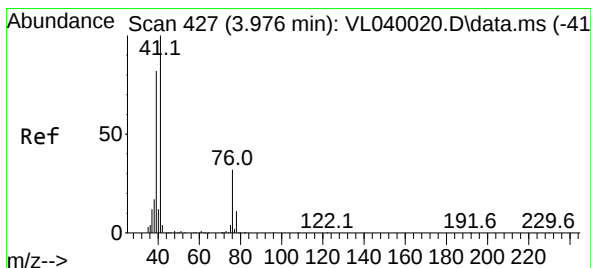
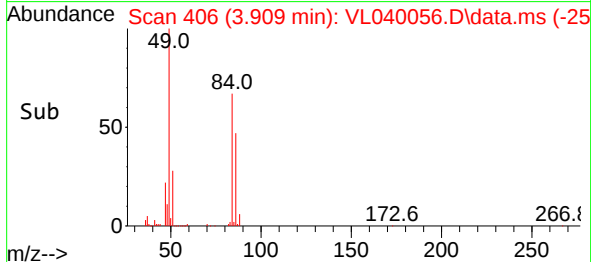
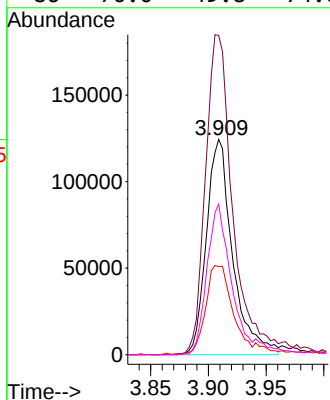
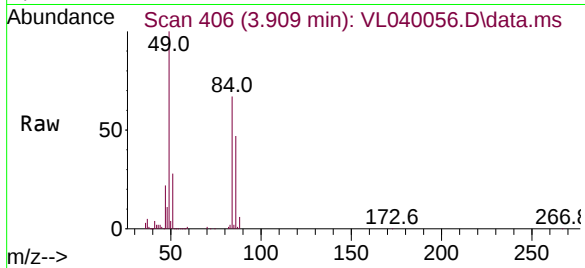


#20
Methylene Chloride
Concen: 3.363 ppbv
RT: 3.909 min Scan# 408
Delta R.T. -0.006 min
Lab File: VL040056.D
Acq: 20 Dec 2022 14:39

Instrument :
MSVOA_L
ClientSampleId :
IA-1

Tgt Ion: 84 Resp: 196890

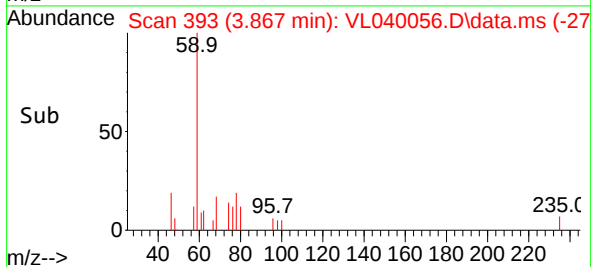
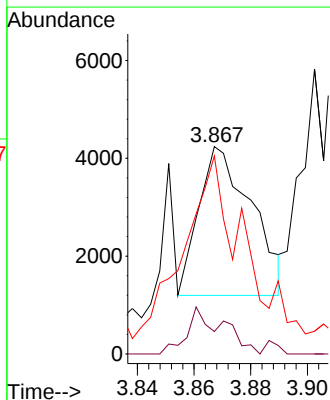
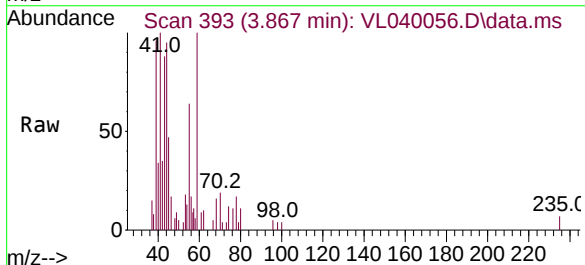
Ion	Ratio	Lower	Upper
84	100		
49	147.8	120.5	180.7
51	40.5	35.2	52.8
86	70.0	49.8	74.6

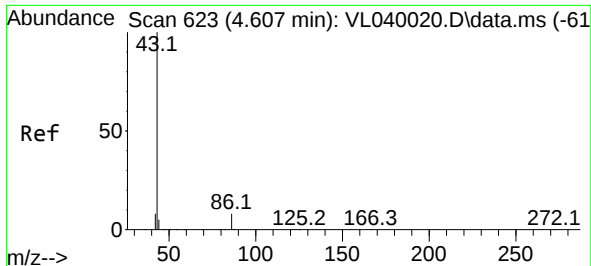


#21
Allyl Chloride
Concen: 0.047 ppbv
RT: 3.867 min Scan# 393
Delta R.T. -0.109 min
Lab File: VL040056.D
Acq: 20 Dec 2022 14:39

Tgt Ion: 41 Resp: 3917

Ion	Ratio	Lower	Upper
41	100		
76	23.7	25.9	38.9#
39	140.2	66.0	99.0#

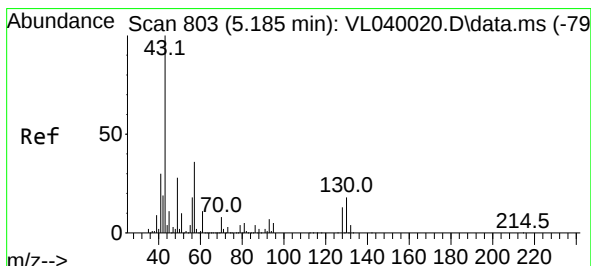
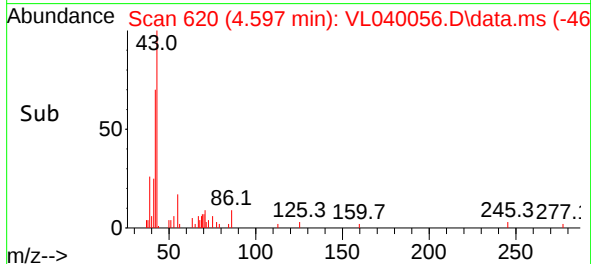
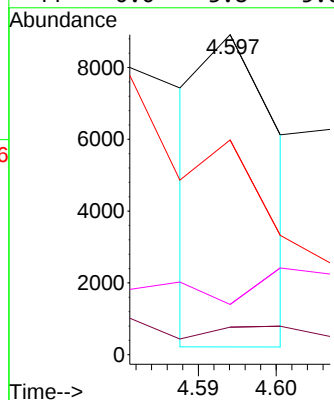
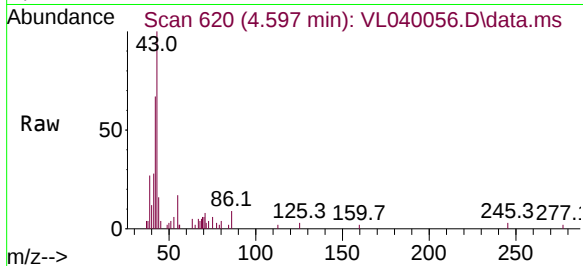




#23
 Vinyl Acetate
 Concen: 0.065 ppbv
 RT: 4.597 min Scan# 61
 Delta R.T. -0.010 min
 Lab File: VL040056.D
 Acq: 20 Dec 2022 14:39

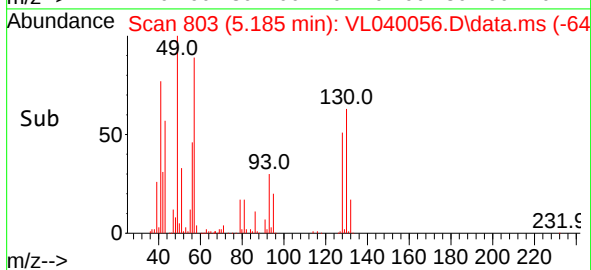
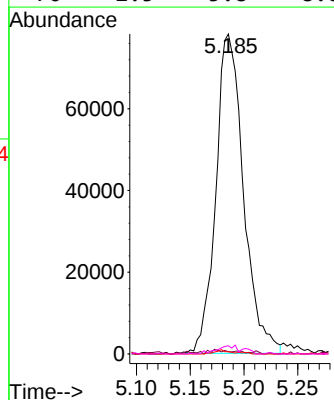
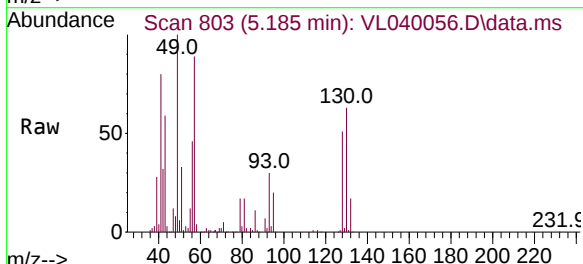
Instrument :
 MSVOA_1
 ClientSampleId :
 IA-1

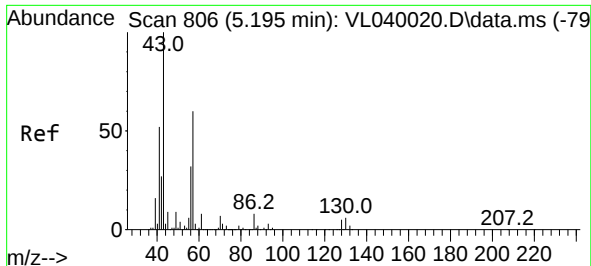
Tgt Ion:	43	Resp:	2818
Ion	Ratio	Lower	Upper
43	100		
86	11.9	5.3	7.9#
42	95.1	7.4	11.0#
44	0.0	3.8	5.6#



#25
 Ethyl Acetate
 Concen: 0.585 ppbv
 RT: 5.185 min Scan# 803
 Delta R.T. 0.000 min
 Lab File: VL040056.D
 Acq: 20 Dec 2022 14:39

Tgt Ion:	43	Resp:	139597
Ion	Ratio	Lower	Upper
43	100		
45	1.8	8.6	12.8#
61	0.8	8.5	12.7#
70	2.5	5.8	8.8#

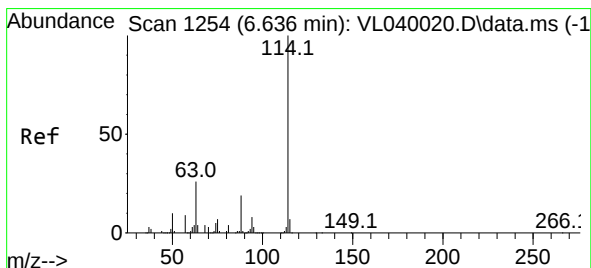
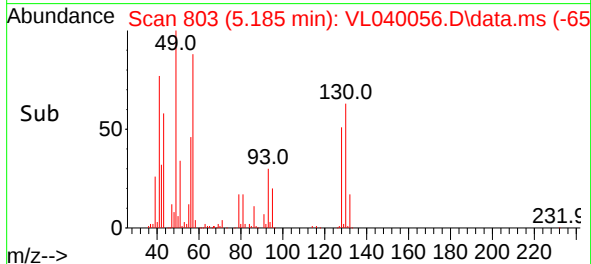
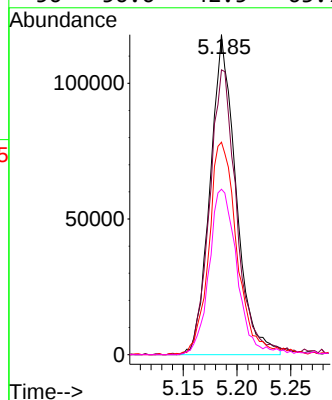
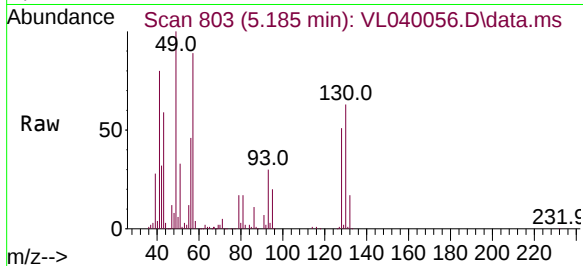




#26
Hexane
Concen: 1.974 ppbv
RT: 5.185 min Scan# 806
Delta R.T. -0.010 min
Lab File: VL040056.D
Acq: 20 Dec 2022 14:39

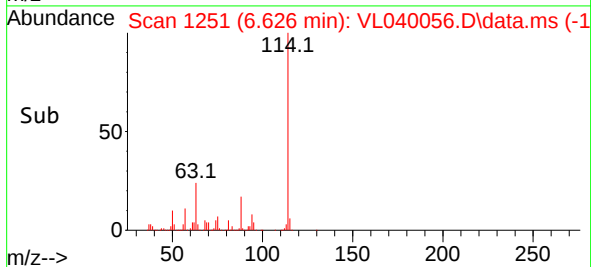
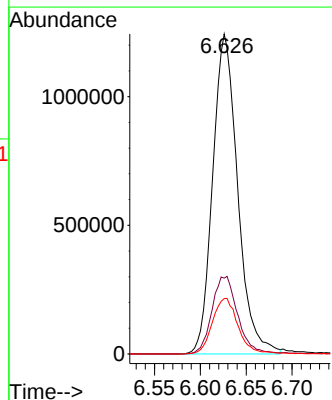
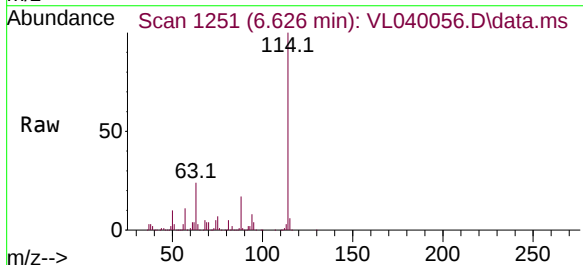
Instrument :
MSVOA_L
ClientSampleId :
IA-1

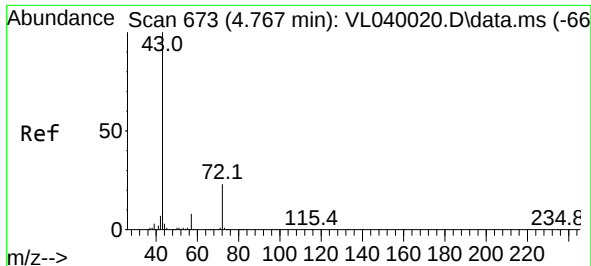
Tgt Ion: 57	Resp: 197890
Ion Ratio	Lower Upper
57 100	
41 93.3	72.1 108.1
43 72.9	192.1 288.1#
56 56.6	42.5 63.7



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.626 min Scan# 1251
Delta R.T. -0.010 min
Lab File: VL040056.D
Acq: 20 Dec 2022 14:39

Tgt Ion:114	Resp: 2354637		
Ion	Ratio	Lower	Upper
114	100		
63	25.4	20.2	30.2
88	18.0	14.6	21.8

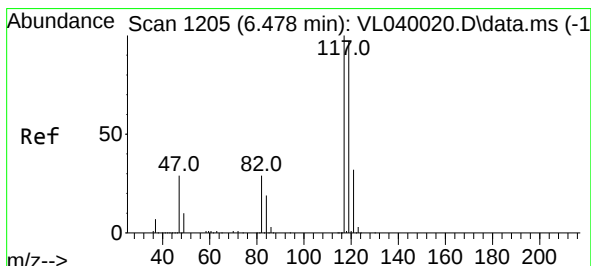
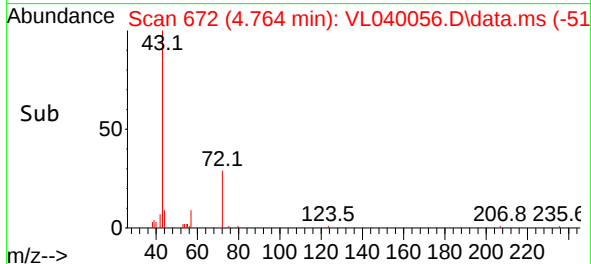
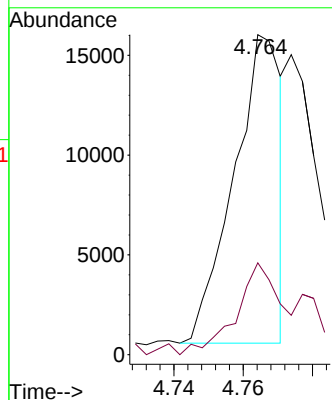
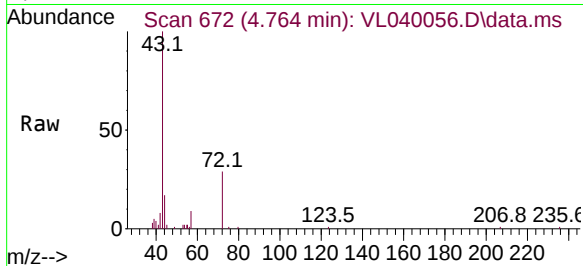




#34
2-Butanone
Concen: 0.115 ppbv
RT: 4.764 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL040056.D
Acq: 20 Dec 2022 14:39

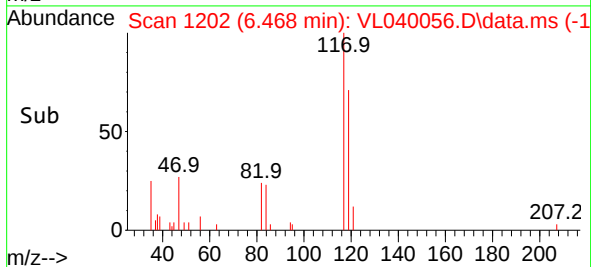
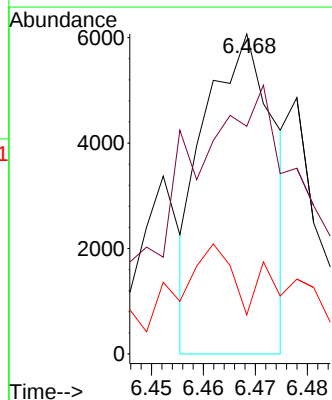
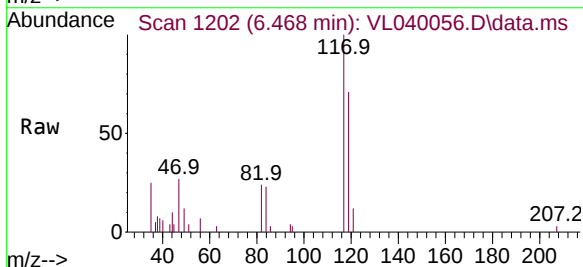
Instrument :
MSVOA_1
ClientSampleId :
IA-1

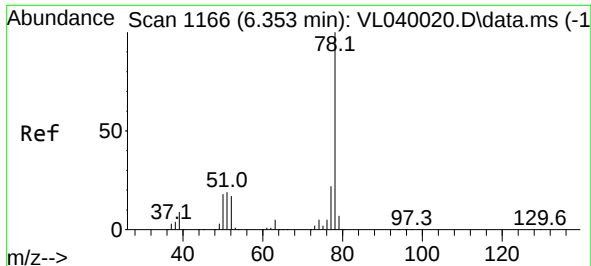
Tgt Ion: 43 Resp: 14653
Ion Ratio Lower Upper
43 100
72 46.2 18.0 27.0#



#35
Carbon Tetrachloride
Concen: 0.039 ppbv
RT: 6.468 min Scan# 1202
Delta R.T. -0.010 min
Lab File: VL040056.D
Acq: 20 Dec 2022 14:39

Tgt Ion: 117 Resp: 5661
Ion Ratio Lower Upper
117 100
119 23.6 77.3 115.9#
121 0.0 25.4 38.0#

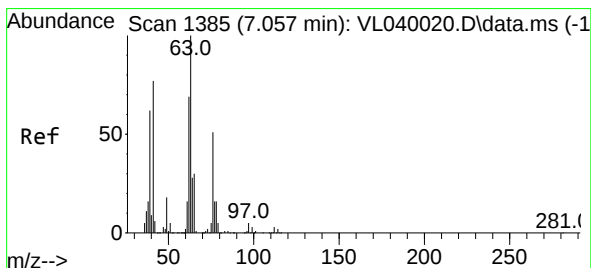
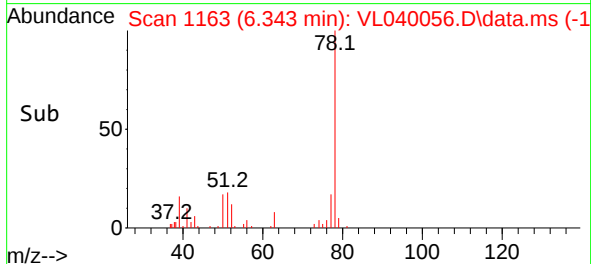
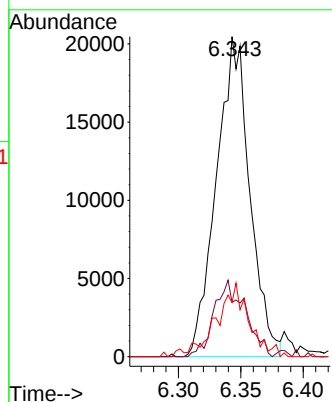
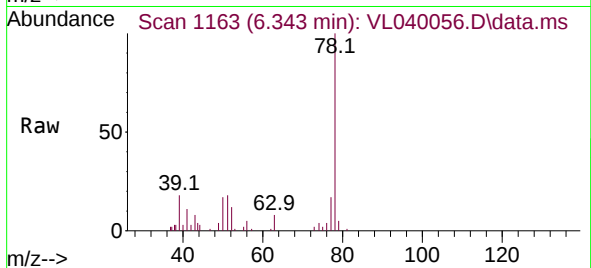




#36
Benzene
Concen: 0.181 ppbv
RT: 6.343 min Scan# 1163
Delta R.T. -0.010 min
Lab File: VL040056.D
Acq: 20 Dec 2022 14:39

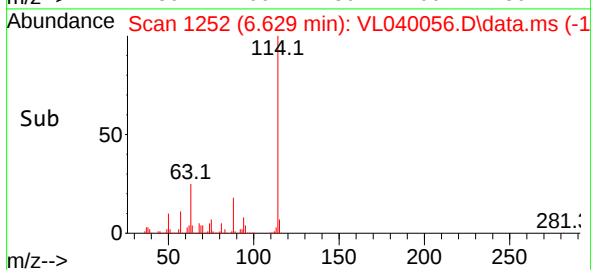
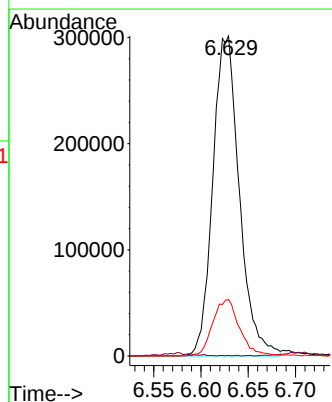
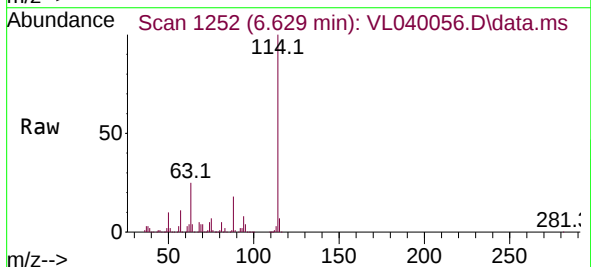
Instrument :
MSVOA_1
ClientSampleId :
IA-1

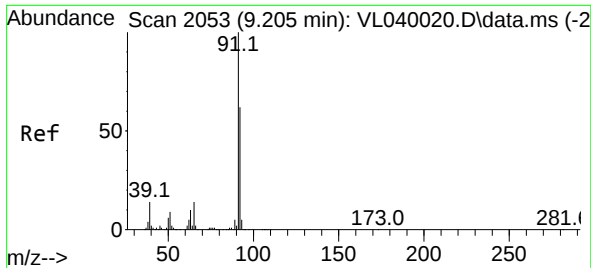
Tgt Ion: 78 Resp: 38151
Ion Ratio Lower Upper
78 100
77 17.2 17.5 26.3#
50 17.1 14.2 21.2



#39
1,2-Dichloropropane
Concen: 7.449 ppbv
RT: 6.629 min Scan# 1252
Delta R.T. -0.428 min
Lab File: VL040056.D
Acq: 20 Dec 2022 14:39

Tgt Ion: 63 Resp: 587146
Ion Ratio Lower Upper
63 100
41 0.0 61.4 92.0#
62 17.6 55.4 83.2#

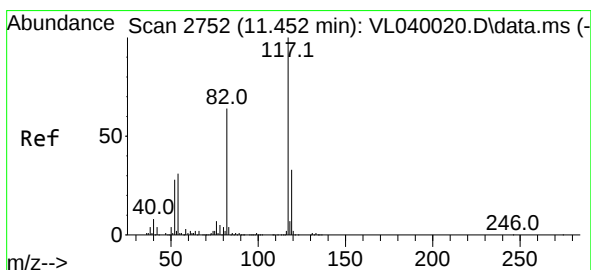
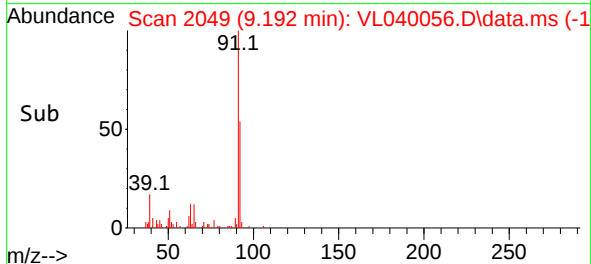
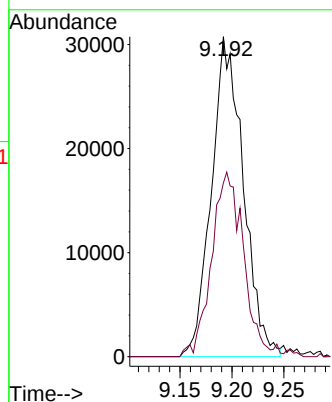
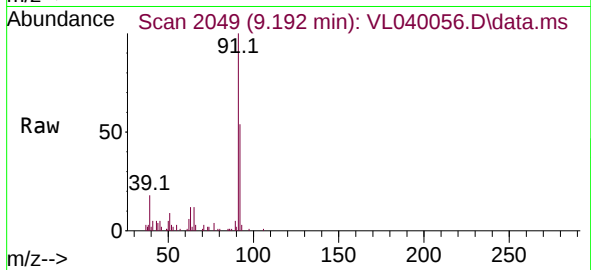




#53
Toluene
Concen: 0.280 ppbv
RT: 9.192 min Scan# 2053
Delta R.T. -0.013 min
Lab File: VL040056.D
Acq: 20 Dec 2022 14:39

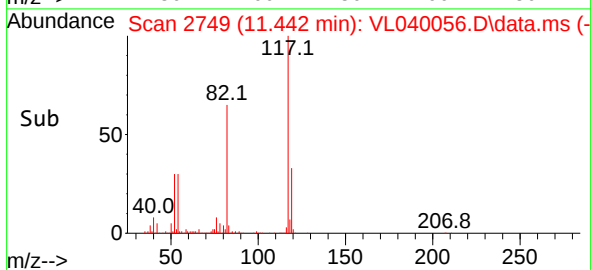
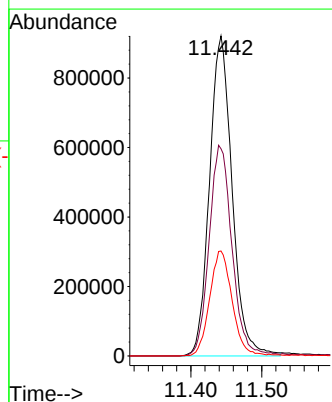
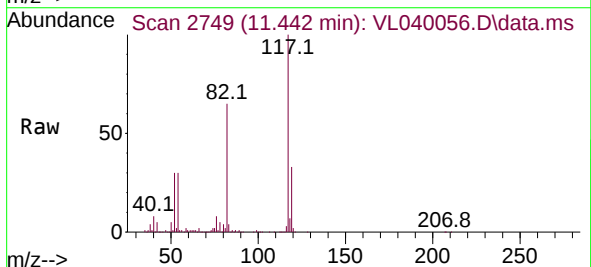
Instrument :
MSVOA_1
ClientSampleId :
IA-1

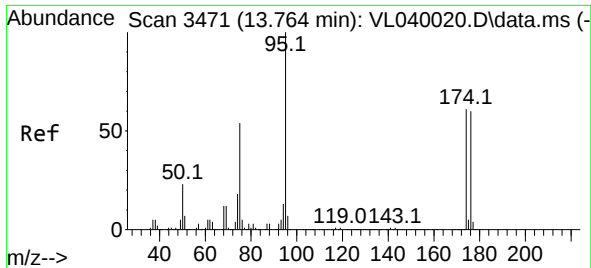
Tgt Ion: 91 Resp: 65295
Ion Ratio Lower Upper
91 100
92 58.7 48.7 73.1



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.442 min Scan# 2749
Delta R.T. -0.010 min
Lab File: VL040056.D
Acq: 20 Dec 2022 14:39

Tgt Ion: 117 Resp: 2044148
Ion Ratio Lower Upper
117 100
82 67.1 51.2 76.8
119 32.8 23.2 34.8





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.067 ppbv
 RT: 13.754 min Scan# 34
 Delta R.T. -0.010 min
 Lab File: VL040056.D
 Acq: 20 Dec 2022 14:39

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

Tgt Ion: 95 Resp: 1571882
 Ion Ratio Lower Upper
 95 100
 174 59.8 48.6 73.0
 175 4.2 3.4 5.2

