

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121222\
 Data File : VL039989.D
 Acq On : 12 Dec 2022 23:44
 Operator : SY/MD
 Sample : N5971-09
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

Quant Time: Dec 13 07:11:17 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111822AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Dec 02 23:21:36 2022
 Response via : Initial Calibration

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

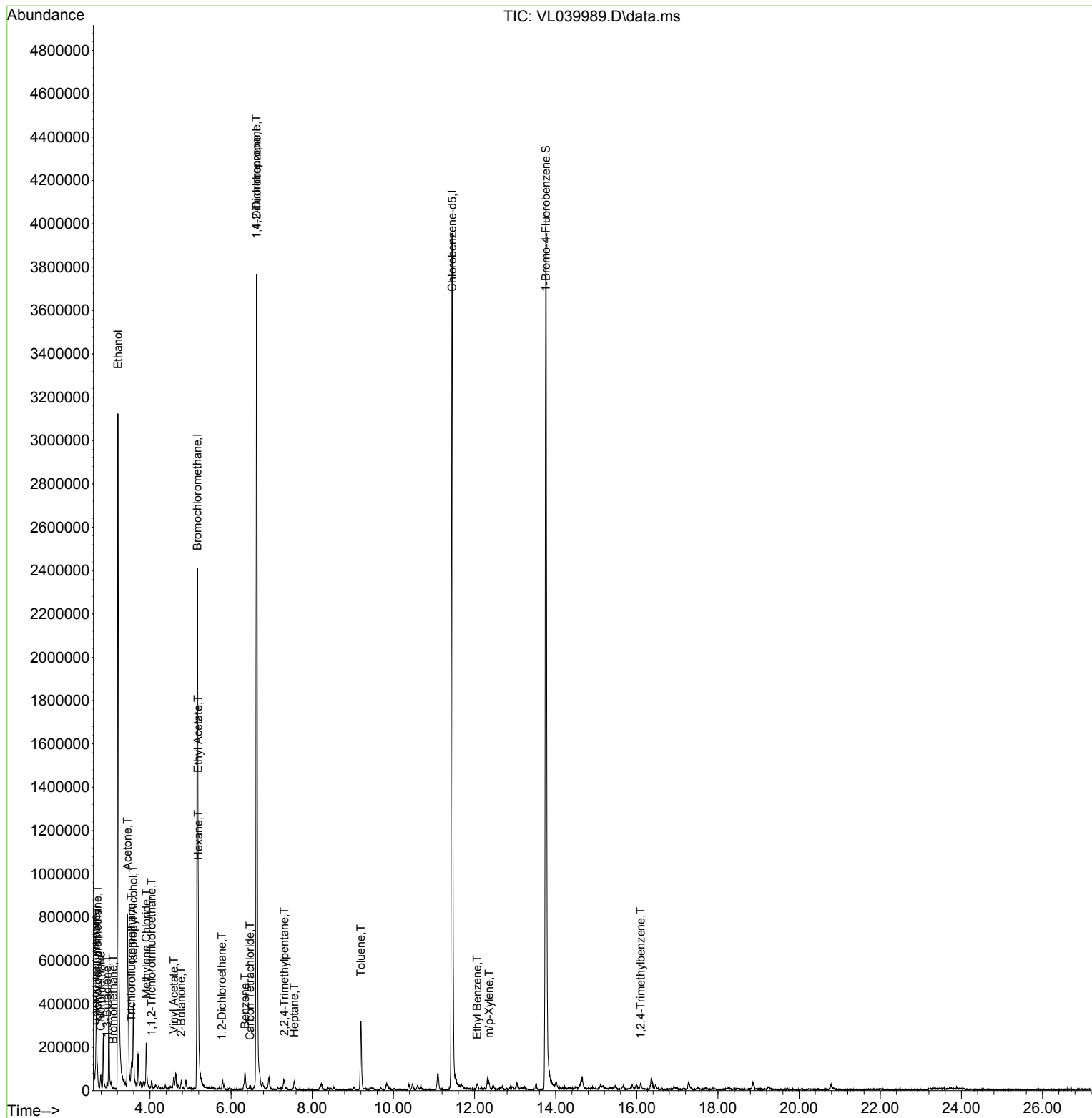
Internal Standards								
1) Bromochloromethane			5.166	49	1077457	10.000	ppbv	0.01
33) 1,4-Difluorobenzene			6.632	114	2760373	10.000	ppbv	0.01
55) Chlorobenzene-d5			11.446	117	2519261	10.000	ppbv	0.01
System Monitoring Compounds								
68) 1-Bromo-4-Fluorobenzene			13.757	95	2068539	10.750	ppbv	0.02
Spiked Amount		10.000	Range	65 - 135	Recovery	= 107.500%		
Target Compounds								
								Qvalue
2) Dichlorodifluoromethane			2.706	85	47313	0.307	ppbv	95
3) Chlorodifluoromethane			2.652	51	69106	0.465	ppbv	98
4) Chloromethane			2.790	50	38976	0.410	ppbv	93
6) Bromomethane			3.095	94	588	0.023	ppbv #	59
9) Propene			2.677	41	121441	1.734	ppbv	88
10) Heptane			7.558	43	6179	0.037	ppbv #	1
11) Trichlorofluoromethane			3.539	101	46152	0.245	ppbv	91
12) 1,1,2-Trichlorotrifluo...			4.041	101	5641	0.040	ppbv #	12
13) Ethanol			3.211	45	3269091	611.379	ppbv	100
15) Acetone			3.446	43	826136	5.781	ppbv	97
16) 1,3-Butadiene			2.944	39	6058	0.085	ppbv #	81
19) Isopropyl Alcohol			3.587	45	70586	0.912	ppbv #	29
20) Methylene Chloride			3.909	84	70236	1.014	ppbv	88
23) Vinyl Acetate			4.594	43	10159	0.173	ppbv #	23
25) Ethyl Acetate			5.185	43	106511	0.406	ppbv #	83
26) Hexane			5.192	57	134123	1.170	ppbv #	41
34) 2-Butanone			4.771	43	32574	0.247	ppbv #	84
35) Carbon Tetrachloride			6.465	117	6867	0.044	ppbv #	91
36) Benzene			6.343	78	51239	0.218	ppbv	94
37) 1,2-Dichloroethane			5.774	62	4089	0.032	ppbv #	81
39) 1,2-Dichloropropane			6.629	63	719121	7.867	ppbv #	27
44) 2,2,4-Trimethylpentane			7.311	57	12185	0.031	ppbv #	1
53) Toluene			9.201	91	235542	0.881	ppbv	96
58) Ethyl Benzene			12.066	91	10384	0.030	ppbv	95
59) m/p-Xylene			12.359	91	8989	0.031	ppbv #	30
74) 1,2,4-Trimethylbenzene			16.098	105	17076	0.057	ppbv #	84

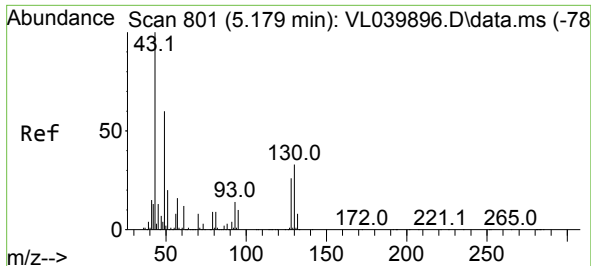
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121222\
Data File : VL039989.D
Acq On : 12 Dec 2022 23:44
Operator : SY/MD
Sample : N5971-09
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-1

Quant Time: Dec 13 07:11:17 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111822AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Dec 02 23:21:36 2022
Response via : Initial Calibration

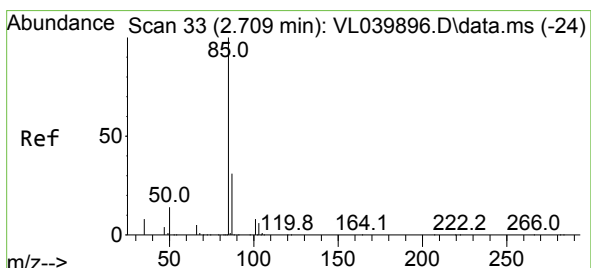
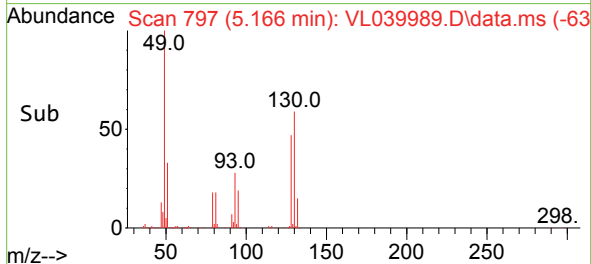
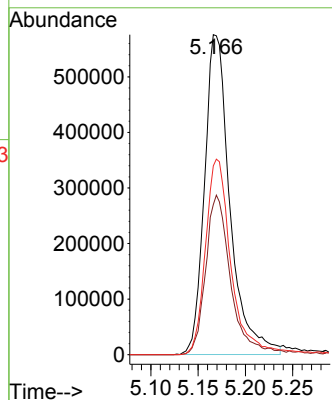
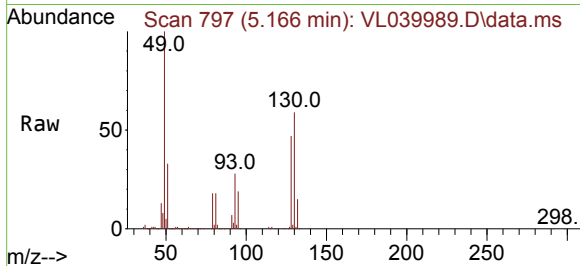




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.166 min Scan# 79
Delta R.T. 0.010 min
Lab File: VL039989.D
Acq: 12 Dec 2022 23:44

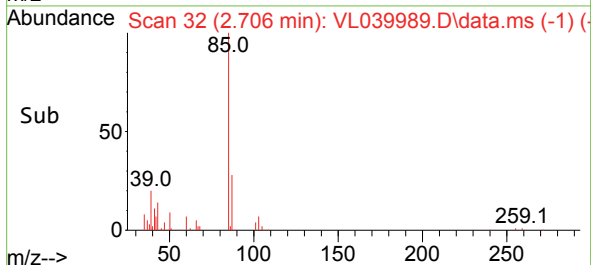
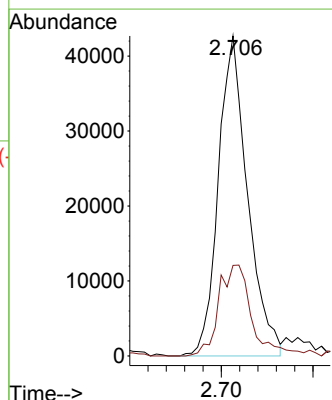
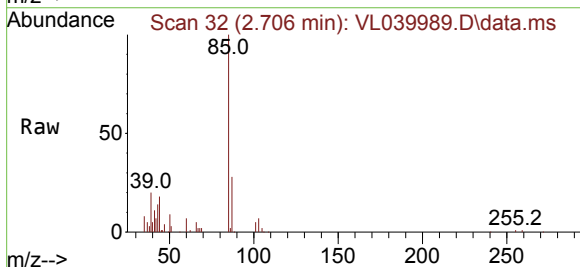
Instrument :
MSVOA_L
ClientSampleId :
IA-1

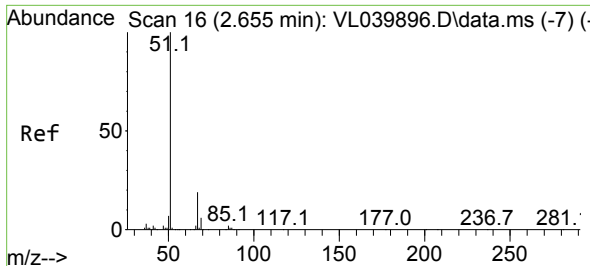
Tgt Ion: 49 Resp: 1077457
Ion Ratio Lower Upper
49 100
128 50.5 22.1 66.3
130 62.5 27.7 83.1



#2
Dichlorodifluoromethane
Concen: 0.307 ppbv
RT: 2.706 min Scan# 32
Delta R.T. 0.010 min
Lab File: VL039989.D
Acq: 12 Dec 2022 23:44

Tgt Ion: 85 Resp: 47313
Ion Ratio Lower Upper
85 100
87 28.3 25.0 37.4

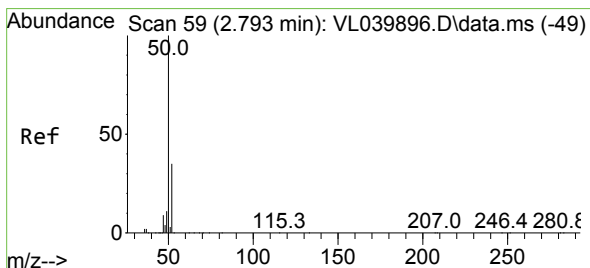
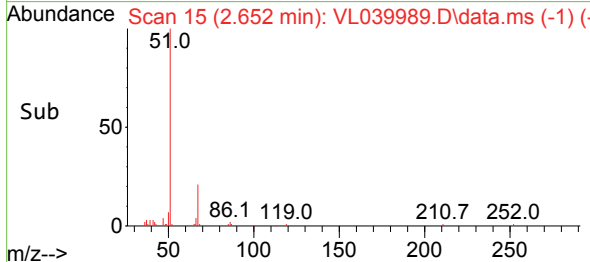
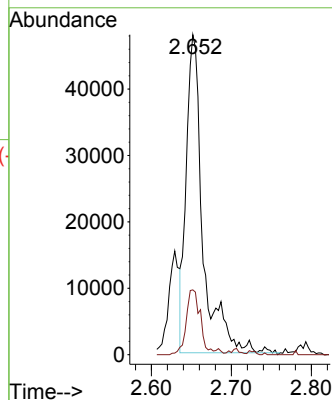
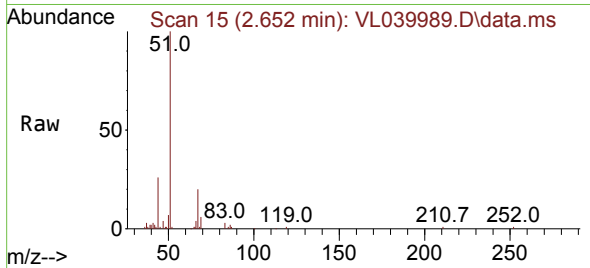




#3
Chlorodifluoromethane
Concen: 0.465 ppbv
RT: 2.652 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL039989.D
Acq: 12 Dec 2022 23:44

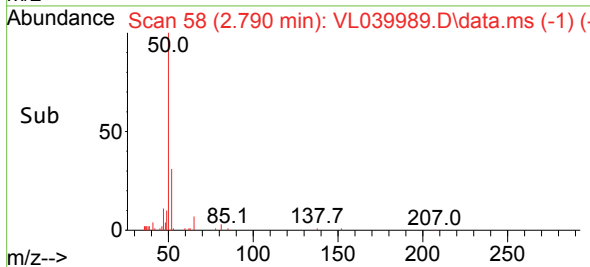
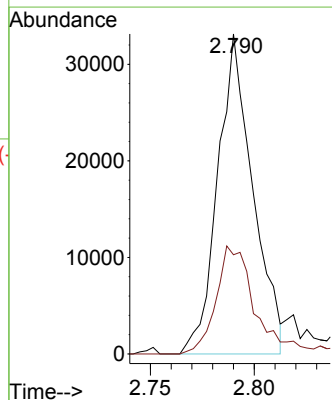
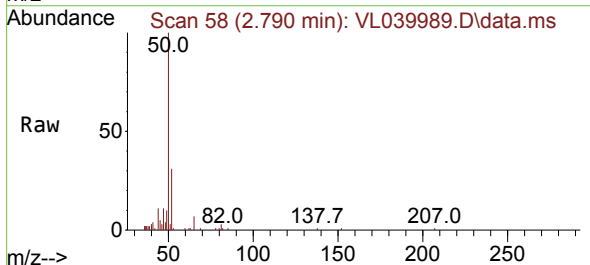
Instrument :
MSVOA_L
ClientSampleId :
IA-1

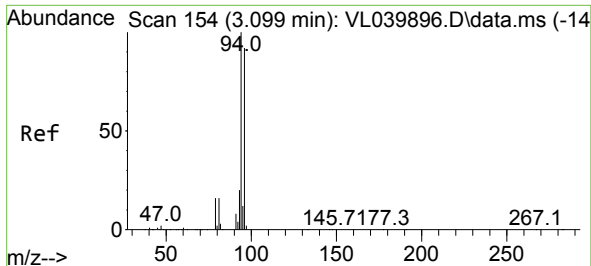
Tgt Ion: 51 Resp: 69106
Ion Ratio Lower Upper
51 100
67 16.9 14.2 21.4



#4
Chloromethane
Concen: 0.410 ppbv
RT: 2.790 min Scan# 58
Delta R.T. 0.010 min
Lab File: VL039989.D
Acq: 12 Dec 2022 23:44

Tgt Ion: 50 Resp: 38976
Ion Ratio Lower Upper
50 100
52 31.0 27.8 41.8

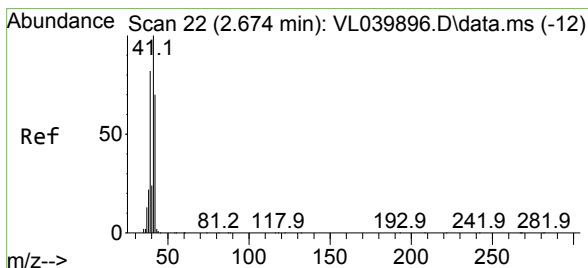
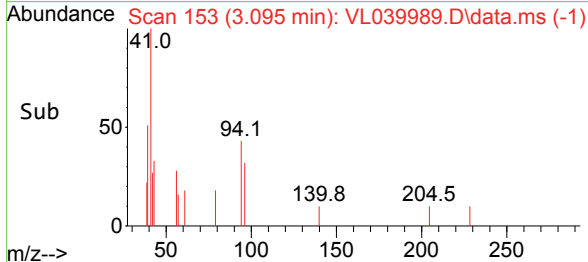
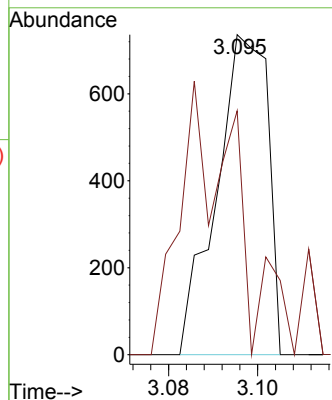
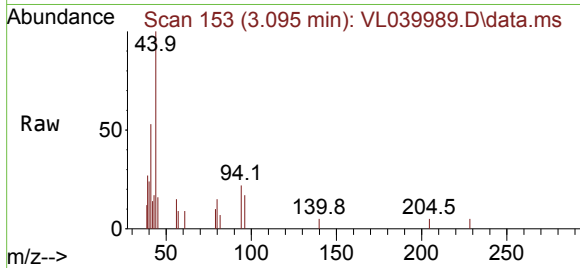




#6
Bromomethane
Concen: 0.023 ppbv
RT: 3.095 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL039989.D
Acq: 12 Dec 2022 23:44

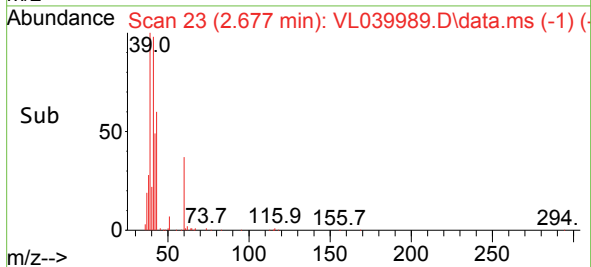
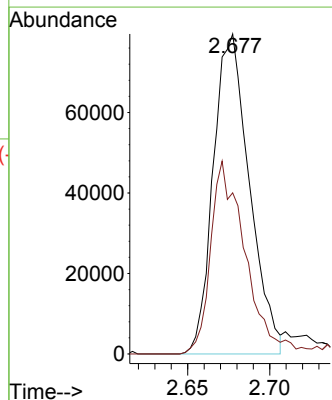
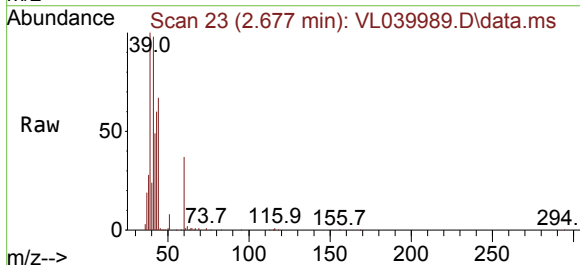
Instrument :
MSVOA_L
ClientSampleId :
IA-1

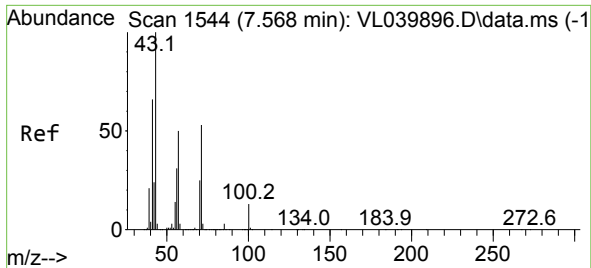
Tgt Ion: 94 Resp: 588
Ion Ratio Lower Upper
94 100
96 53.0 73.7 110.5#



#9
Propene
Concen: 1.734 ppbv
RT: 2.677 min Scan# 23
Delta R.T. 0.016 min
Lab File: VL039989.D
Acq: 12 Dec 2022 23:44

Tgt Ion: 41 Resp: 121441
Ion Ratio Lower Upper
41 100
42 59.6 55.8 83.6

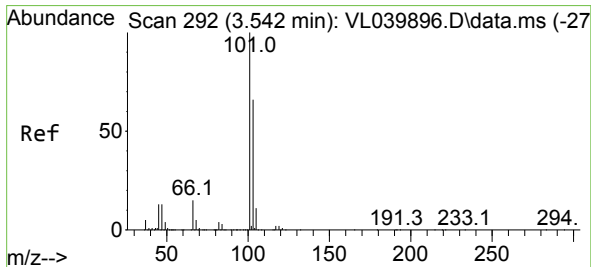
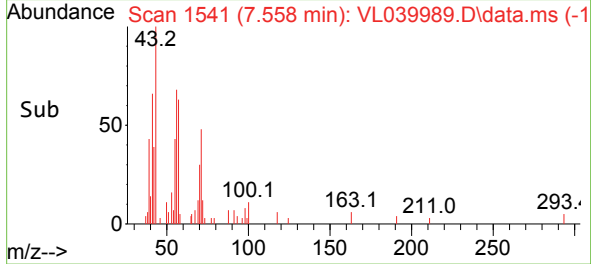
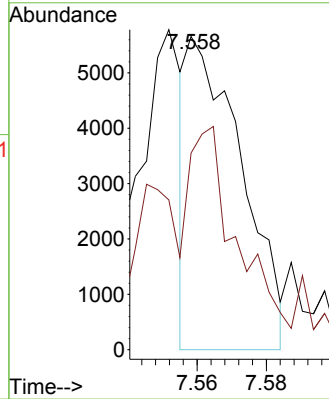
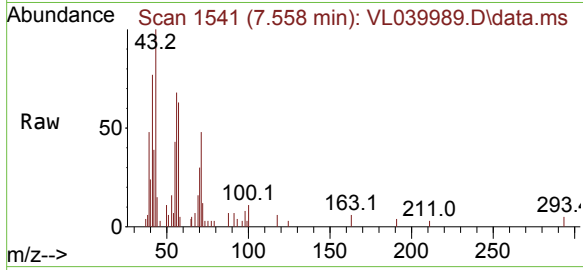




#10
 Heptane
 Concen: 0.037 ppbv
 RT: 7.558 min Scan# 11
 Delta R.T. 0.013 min
 Lab File: VL039989.D
 Acq: 12 Dec 2022 23:44

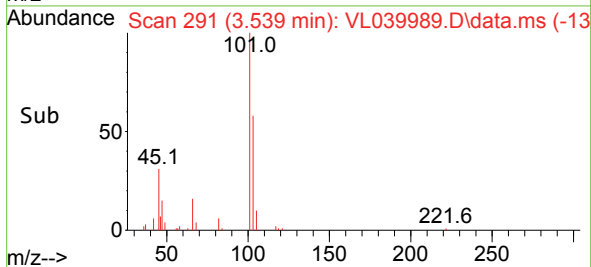
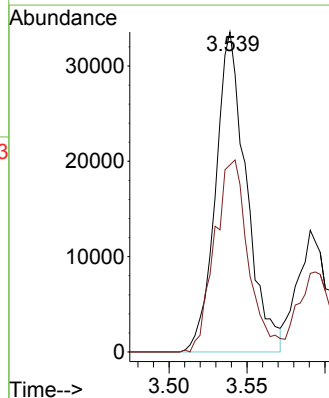
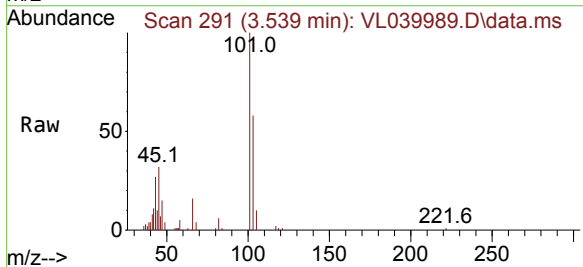
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

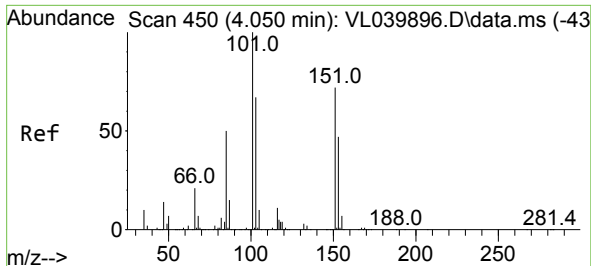
Tgt Ion: 43 Resp: 6179
 Ion Ratio Lower Upper
 43 100
 57 132.0 40.7 61.1#



#11
 Trichlorofluoromethane
 Concen: 0.245 ppbv
 RT: 3.539 min Scan# 291
 Delta R.T. 0.010 min
 Lab File: VL039989.D
 Acq: 12 Dec 2022 23:44

Tgt Ion: 101 Resp: 46152
 Ion Ratio Lower Upper
 101 100
 103 58.4 52.6 78.8

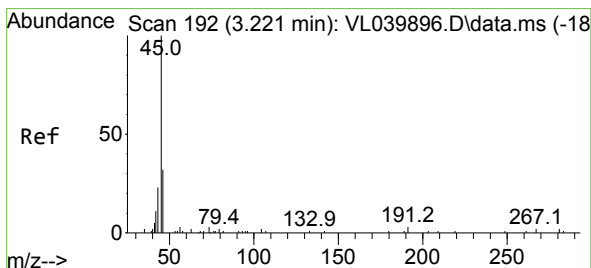
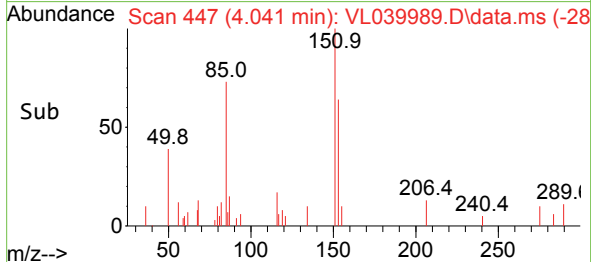
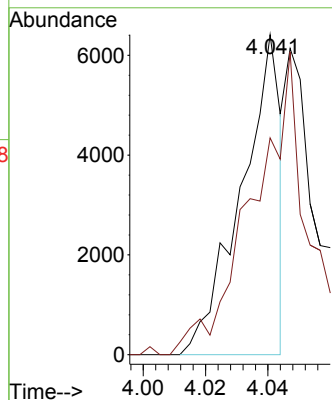
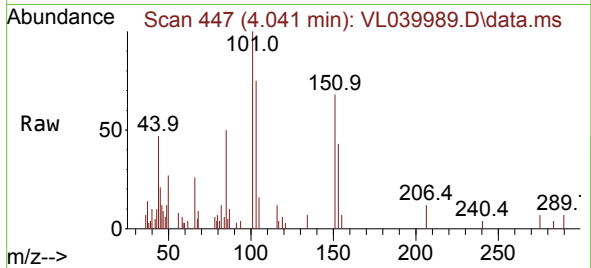




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.040 ppbv
RT: 4.041 min Scan# 41
Delta R.T. 0.010 min
Lab File: VL039989.D
Acq: 12 Dec 2022 23:44

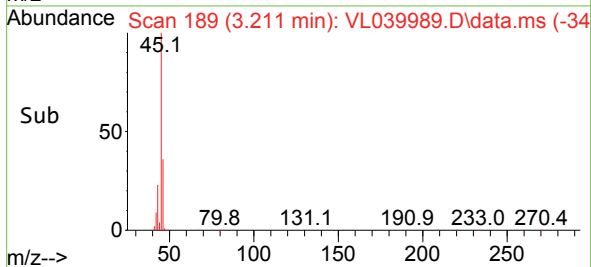
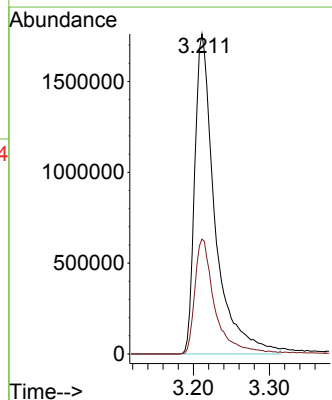
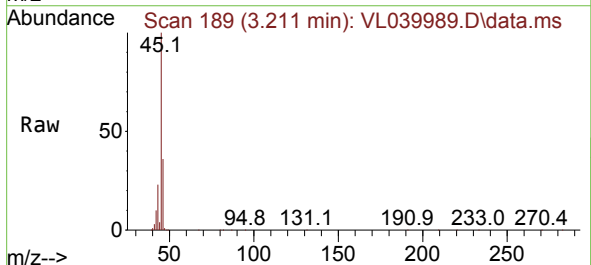
Instrument :
MSVOA_L
ClientSampleId :
IA-1

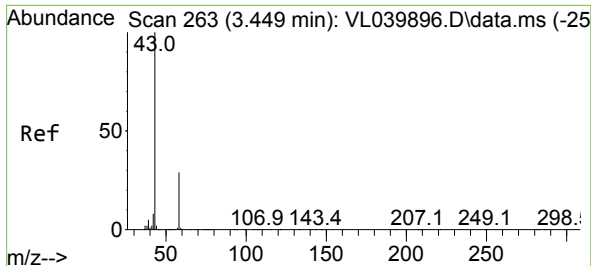
Tgt Ion:101 Resp: 5641
Ion Ratio Lower Upper
101 100
151 0.0 59.6 89.4#



#13
Ethanol
Concen: 611.379 ppbv
RT: 3.211 min Scan# 189
Delta R.T. -0.003 min
Lab File: VL039989.D
Acq: 12 Dec 2022 23:44

Tgt Ion: 45 Resp: 3269091
Ion Ratio Lower Upper
45 100
46 36.4 14.6 58.2





#15

Acetone

Concen: 5.781 ppbv

RT: 3.446 min Scan# 2

Delta R.T. 0.013 min

Lab File: VL039989.D

Acq: 12 Dec 2022 23:44

Instrument :

MSVOA_L

ClientSampleId :

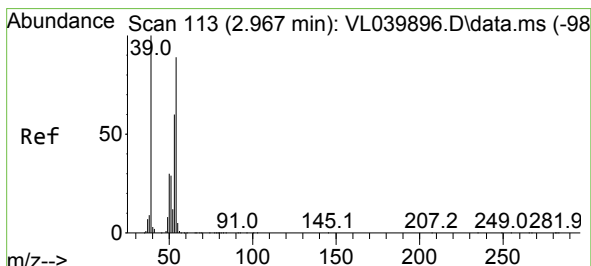
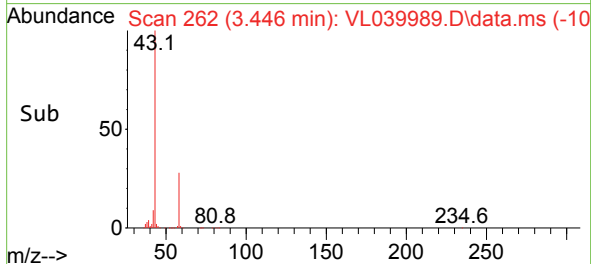
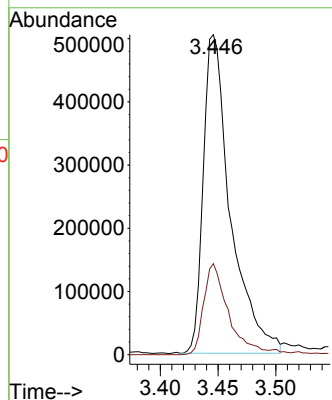
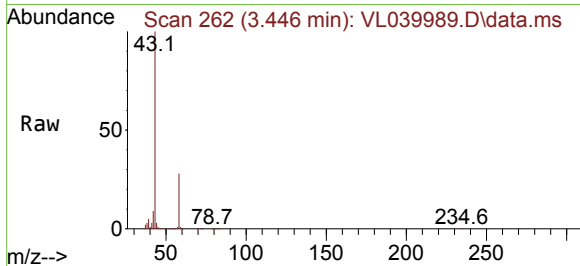
IA-1

Tgt Ion: 43 Resp: 826136

Ion Ratio Lower Upper

43 100

58 27.1 22.9 34.3



#16

1,3-Butadiene

Concen: 0.085 ppbv

RT: 2.944 min Scan# 106

Delta R.T. -0.006 min

Lab File: VL039989.D

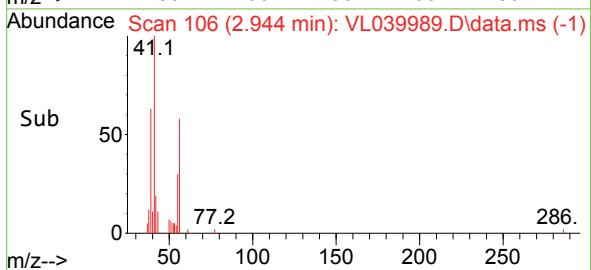
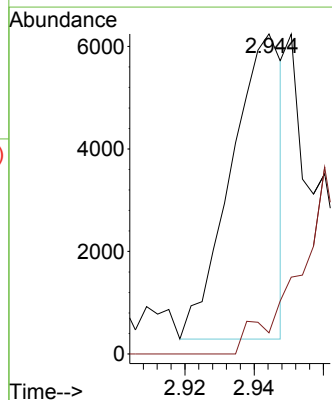
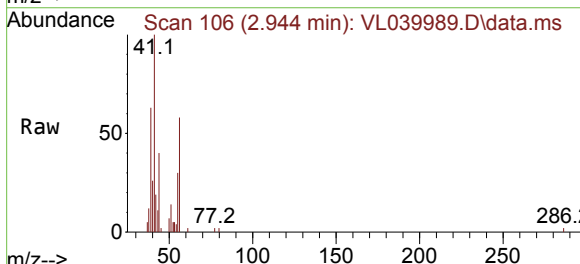
Acq: 12 Dec 2022 23:44

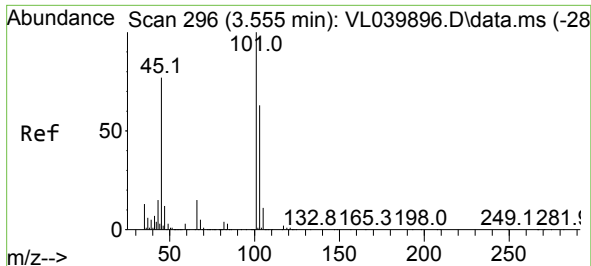
Tgt Ion: 39 Resp: 6058

Ion Ratio Lower Upper

39 100

54 100.6 66.6 99.8#

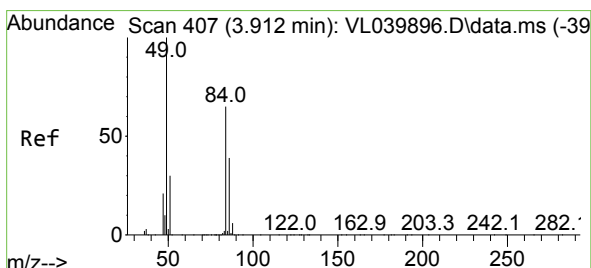
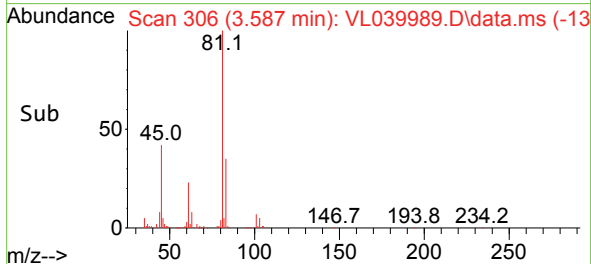
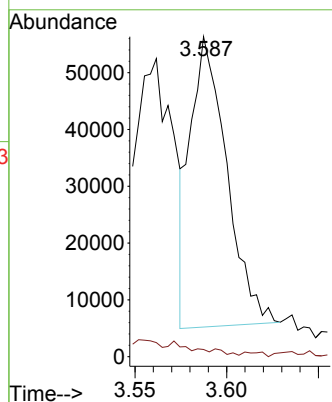
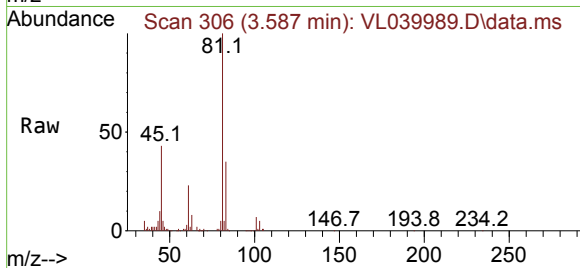




#19
Isopropyl Alcohol
Concen: 0.912 ppbv
RT: 3.587 min Scan# 306
Delta R.T. 0.045 min
Lab File: VL039989.D
Acq: 12 Dec 2022 23:44

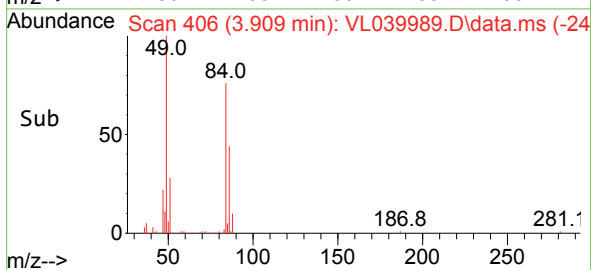
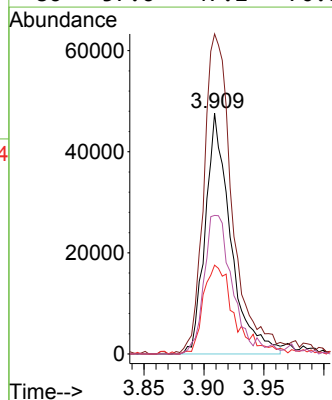
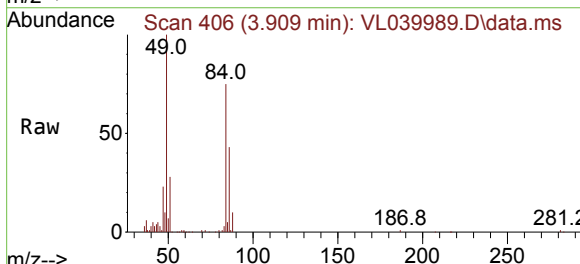
Instrument :
MSVOA_L
ClientSampleId :
IA-1

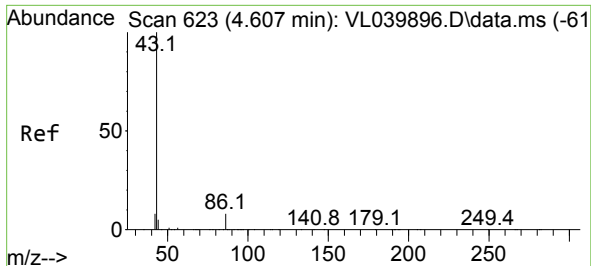
Tgt Ion: 45 Resp: 70586
Ion Ratio Lower Upper
45 100
58 0.0 38.7 58.1#



#20
Methylene Chloride
Concen: 1.014 ppbv
RT: 3.909 min Scan# 406
Delta R.T. 0.013 min
Lab File: VL039989.D
Acq: 12 Dec 2022 23:44

Tgt Ion: 84 Resp: 70236
Ion Ratio Lower Upper
84 100
49 132.3 122.2 183.4
51 36.9 36.3 54.5
86 57.6 47.2 70.8

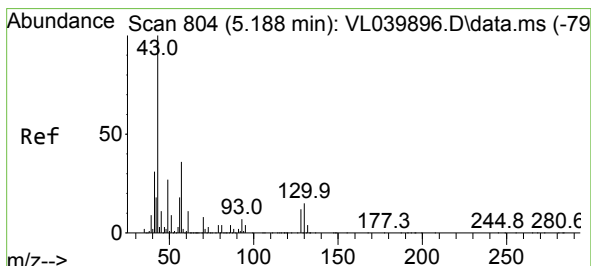
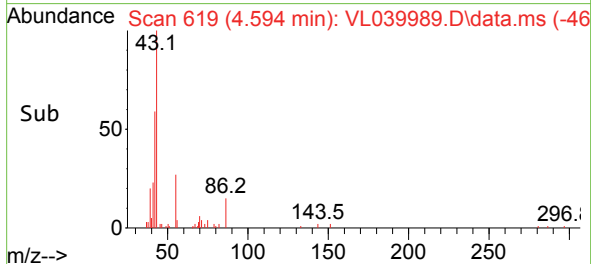
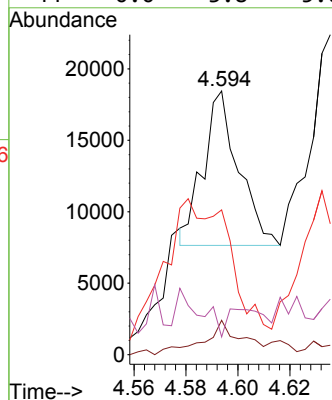
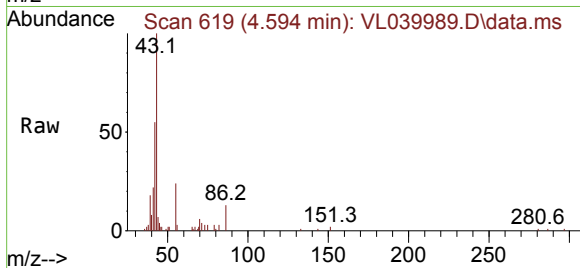




#23
 Vinyl Acetate
 Concen: 0.173 ppbv
 RT: 4.594 min Scan# 619
 Delta R.T. 0.000 min
 Lab File: VL039989.D
 Acq: 12 Dec 2022 23:44

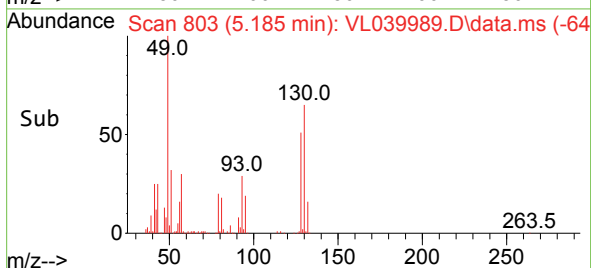
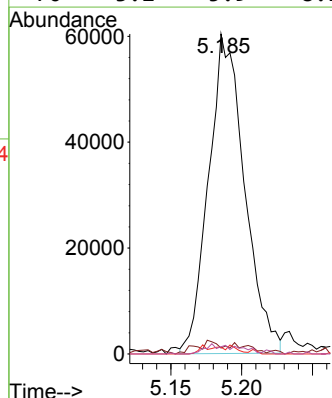
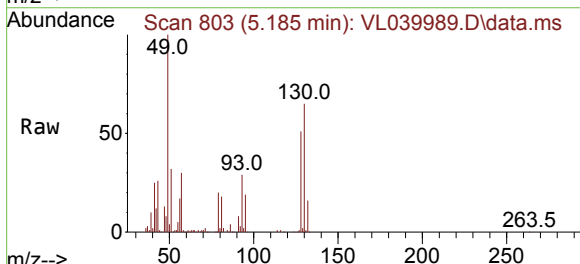
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

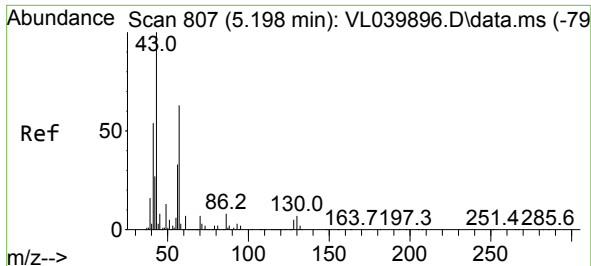
Tgt Ion: 43	Resp: 10159
Ion Ratio	Lower Upper
43	100
86	17.7 5.0 7.4#
42	59.6 7.6 11.4#
44	0.0 3.8 5.6#



#25
 Ethyl Acetate
 Concen: 0.406 ppbv
 RT: 5.185 min Scan# 803
 Delta R.T. 0.016 min
 Lab File: VL039989.D
 Acq: 12 Dec 2022 23:44

Tgt Ion: 43	Resp: 106511
Ion Ratio	Lower Upper
43	100
45	4.5 8.4 12.6#
61	2.4 8.5 12.7#
70	3.2 5.9 8.9#

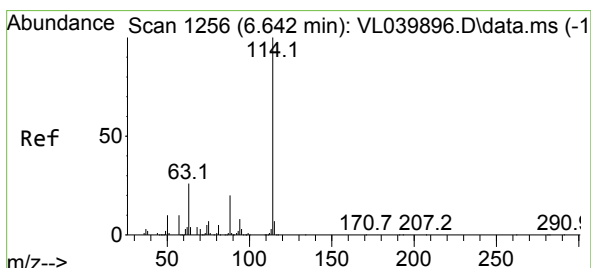
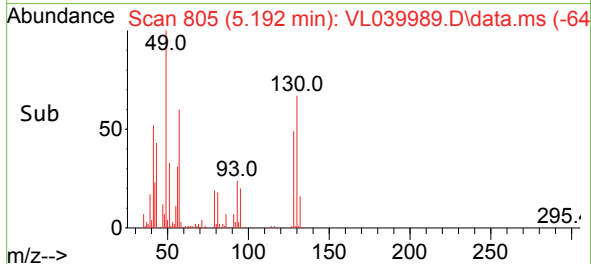
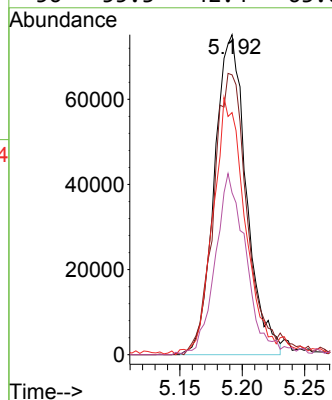
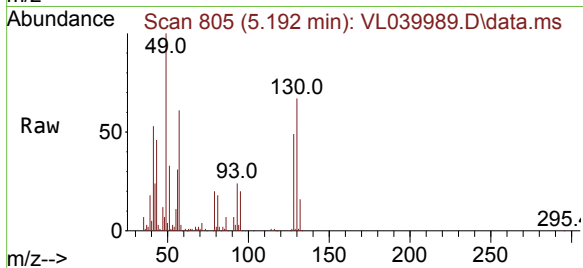




#26
Hexane
Concen: 1.170 ppbv
RT: 5.192 min Scan# 807
Delta R.T. 0.016 min
Lab File: VL039989.D
Acq: 12 Dec 2022 23:44

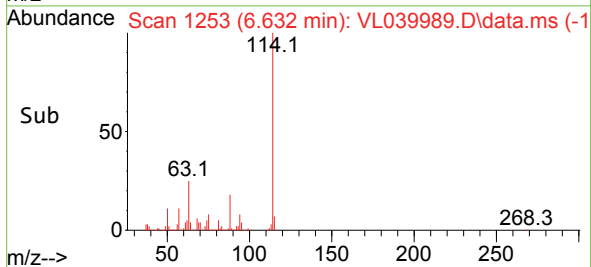
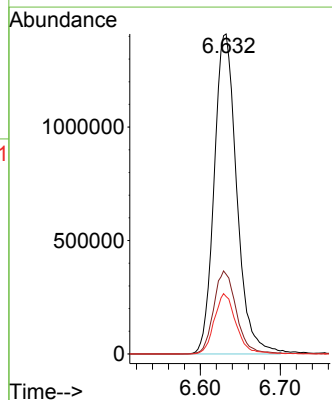
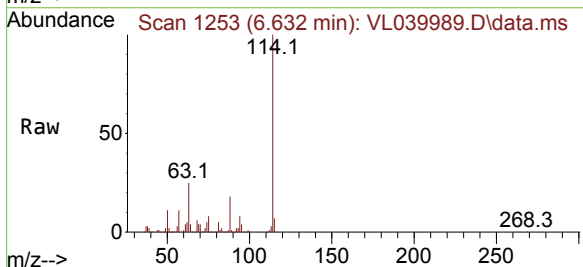
Instrument :
MSVOA_L
ClientSampleId :
IA-1

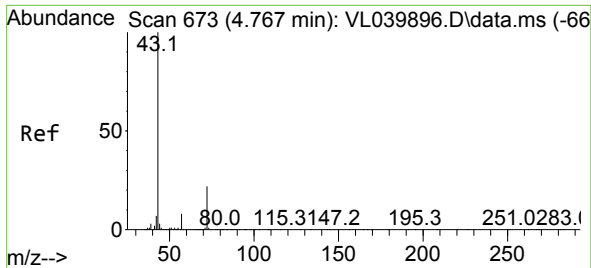
Tgt Ion: 57 Resp: 134123
Ion Ratio Lower Upper
57 100
41 97.2 72.3 108.5
43 82.8 188.7 283.1#
56 55.3 42.4 63.6



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.632 min Scan# 1253
Delta R.T. 0.013 min
Lab File: VL039989.D
Acq: 12 Dec 2022 23:44

Tgt Ion: 114 Resp: 2760373
Ion Ratio Lower Upper
114 100
63 26.4 21.4 32.0
88 18.3 15.3 22.9

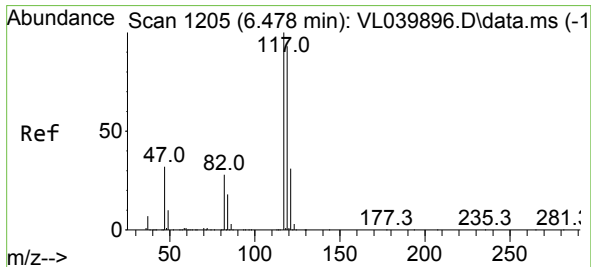
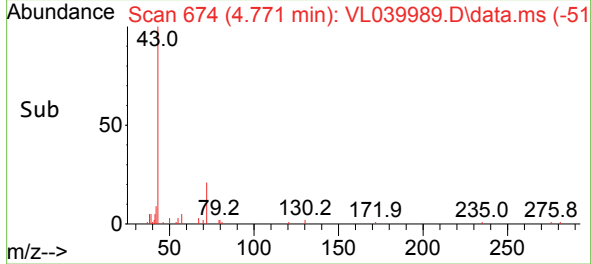
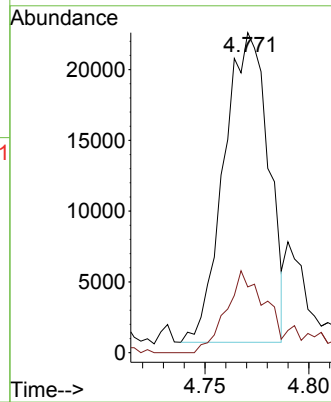
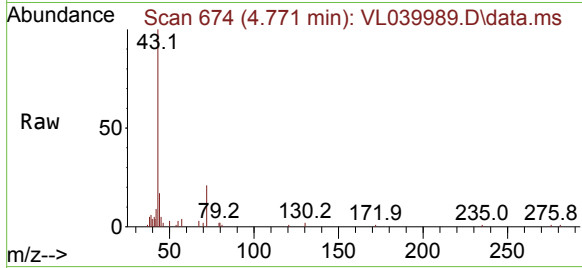




#34
2-Butanone
Concen: 0.247 ppbv
RT: 4.771 min Scan# 61
Delta R.T. 0.019 min
Lab File: VL039989.D
Acq: 12 Dec 2022 23:44

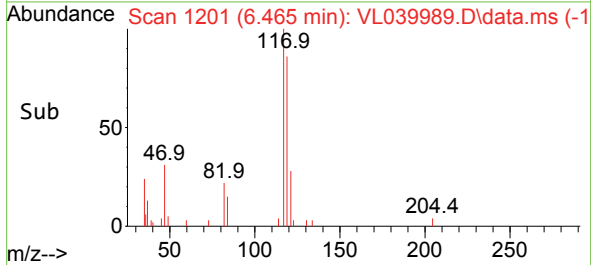
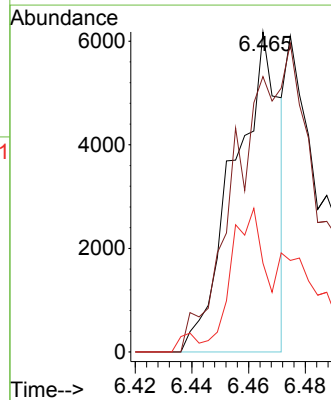
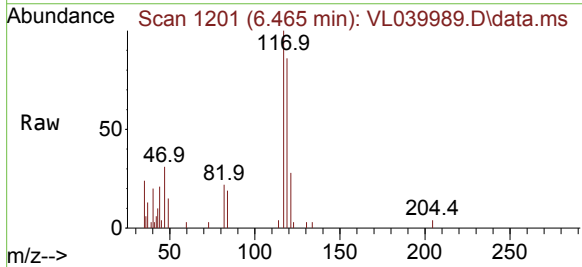
Instrument :
MSVOA_L
ClientSampleId :
IA-1

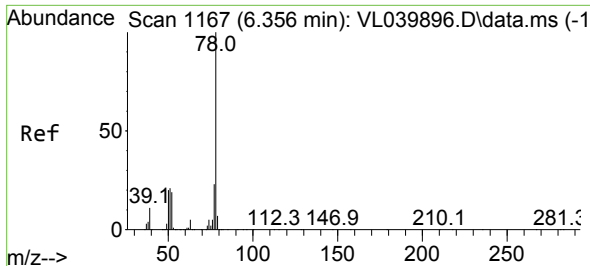
Tgt Ion: 43 Resp: 32574
Ion Ratio Lower Upper
43 100
72 29.5 17.4 26.2#



#35
Carbon Tetrachloride
Concen: 0.044 ppbv
RT: 6.465 min Scan# 1201
Delta R.T. 0.010 min
Lab File: VL039989.D
Acq: 12 Dec 2022 23:44

Tgt Ion: 117 Resp: 6867
Ion Ratio Lower Upper
117 100
119 86.1 74.7 112.1
121 22.9 24.5 36.7#

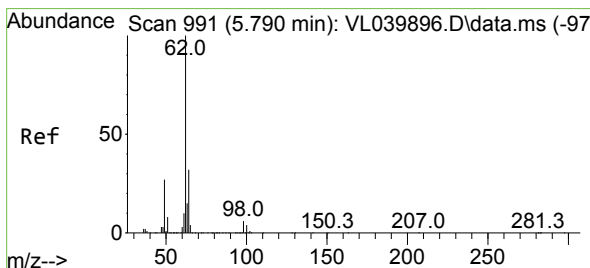
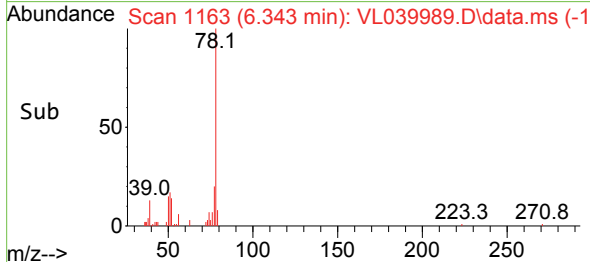
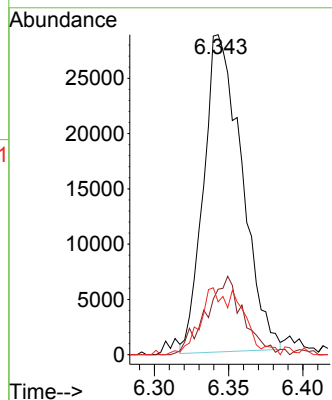
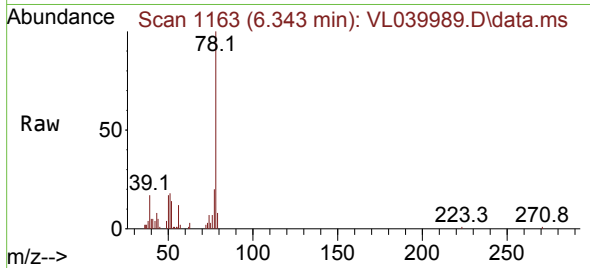




#36
Benzene
Concen: 0.218 ppbv
RT: 6.343 min Scan# 1163
Delta R.T. 0.010 min
Lab File: VL039989.D
Acq: 12 Dec 2022 23:44

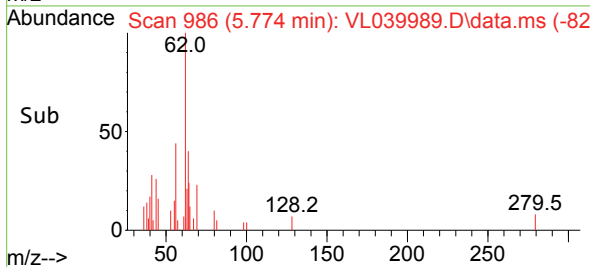
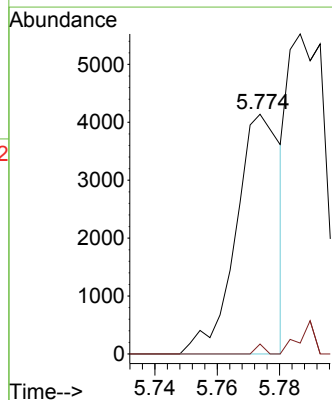
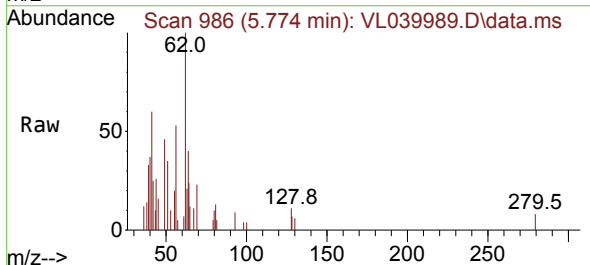
Instrument :
MSVOA_L
ClientSampleId :
IA-1

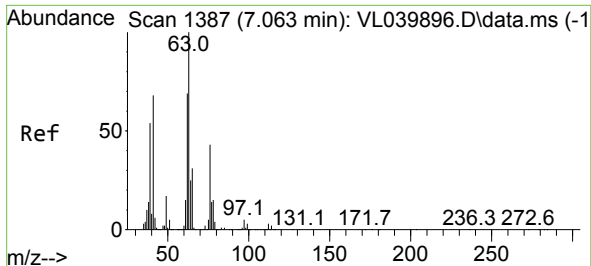
Tgt Ion: 78 Resp: 51239
Ion Ratio Lower Upper
78 100
77 19.9 18.2 27.2
50 17.1 15.8 23.8



#37
1,2-Dichloroethane
Concen: 0.032 ppbv
RT: 5.774 min Scan# 986
Delta R.T. 0.007 min
Lab File: VL039989.D
Acq: 12 Dec 2022 23:44

Tgt Ion: 62 Resp: 4089
Ion Ratio Lower Upper
62 100
98 0.0 5.0 7.6#





#39

1,2-Dichloropropane

Concen: 7.867 ppbv

RT: 6.629 min Scan# 11

Delta R.T. -0.405 min

Lab File: VL039989.D

Acq: 12 Dec 2022 23:44

Instrument :

MSVOA_L

ClientSampleId :

IA-1

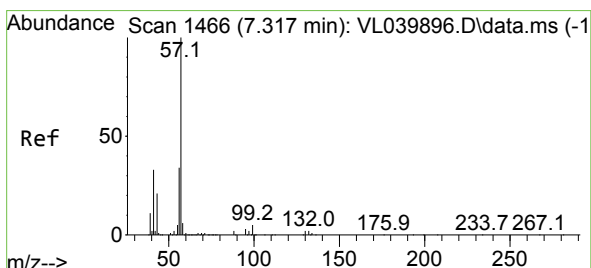
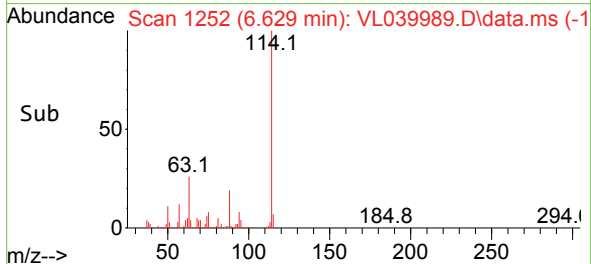
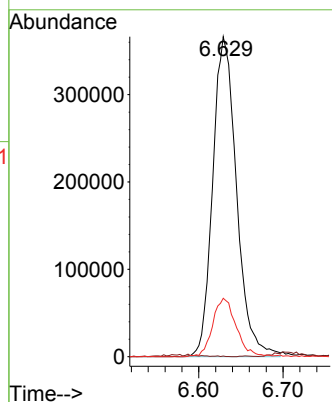
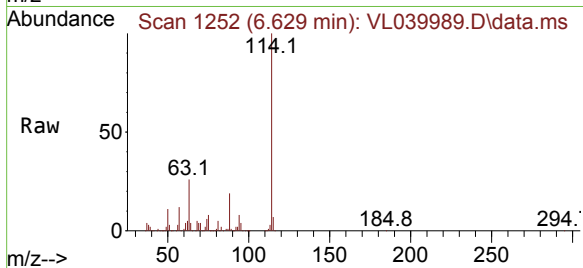
Tgt Ion: 63 Resp: 719121

Ion Ratio Lower Upper

63 100

41 0.0 54.7 82.1#

62 18.3 55.0 82.6#



#44

2,2,4-Trimethylpentane

Concen: 0.031 ppbv

RT: 7.311 min Scan# 1464

Delta R.T. 0.019 min

Lab File: VL039989.D

Acq: 12 Dec 2022 23:44

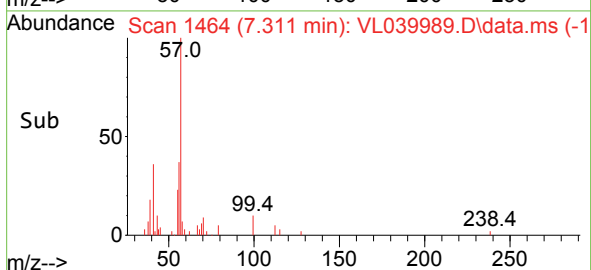
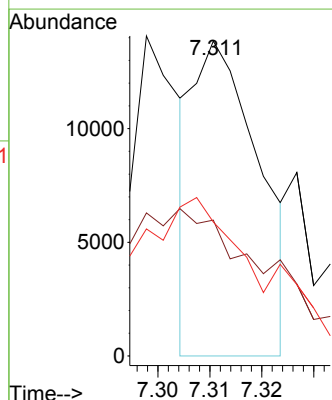
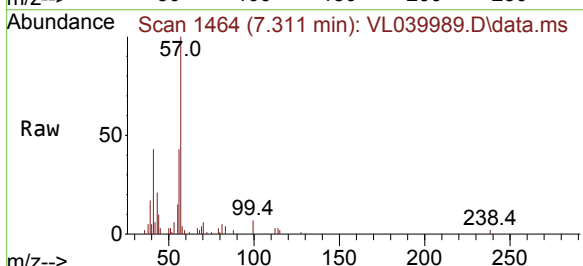
Tgt Ion: 57 Resp: 12185

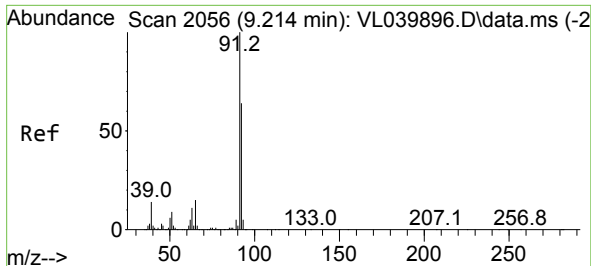
Ion Ratio Lower Upper

57 100

41 145.2 26.2 39.2#

56 129.7 25.5 38.3#

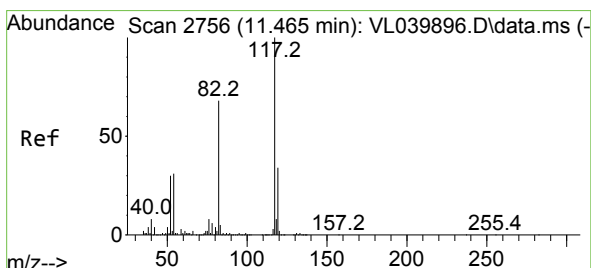
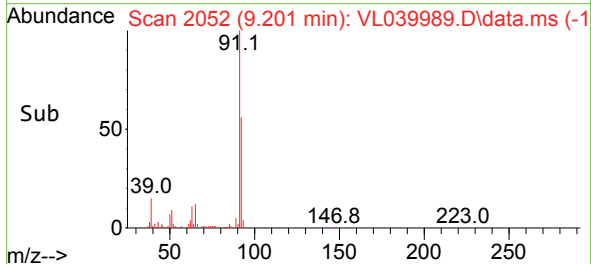
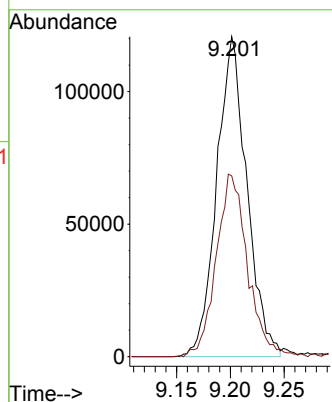
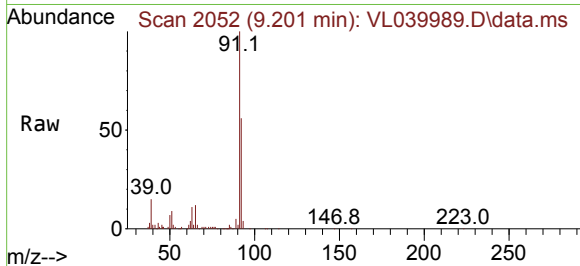




#53
Toluene
Concen: 0.881 ppbv
RT: 9.201 min Scan# 2056
Delta R.T. 0.016 min
Lab File: VL039989.D
Acq: 12 Dec 2022 23:44

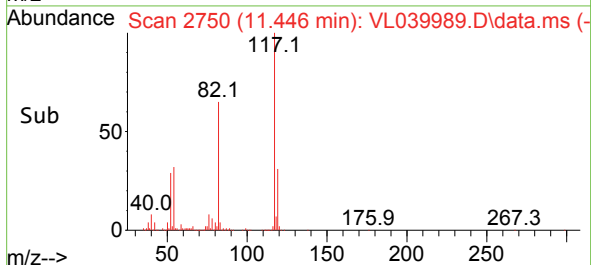
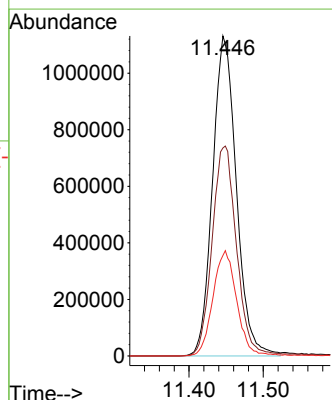
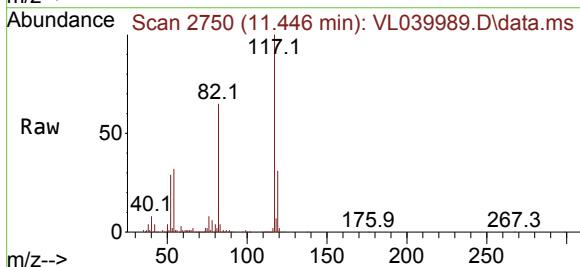
Instrument :
MSVOA_L
ClientSampleId :
IA-1

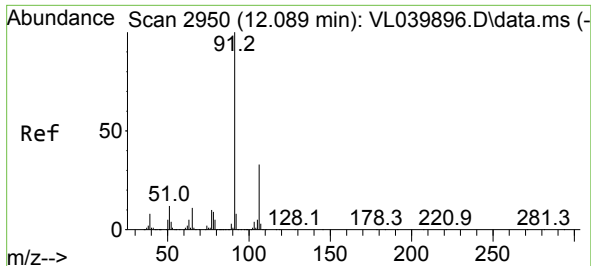
Tgt Ion: 91 Resp: 235542
Ion Ratio Lower Upper
91 100
92 59.3 49.8 74.6



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.446 min Scan# 2750
Delta R.T. 0.013 min
Lab File: VL039989.D
Acq: 12 Dec 2022 23:44

Tgt Ion: 117 Resp: 2519261
Ion Ratio Lower Upper
117 100
82 68.1 52.3 78.5
119 33.2 25.7 38.5

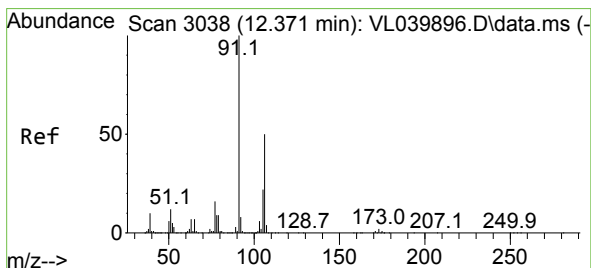
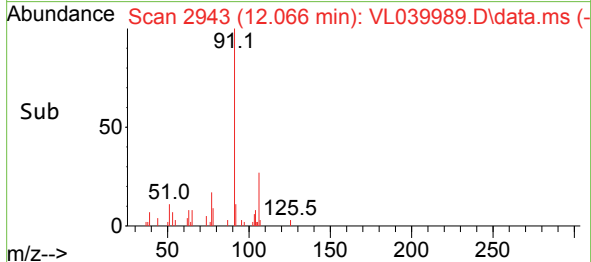
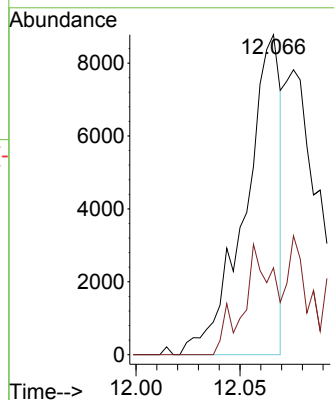
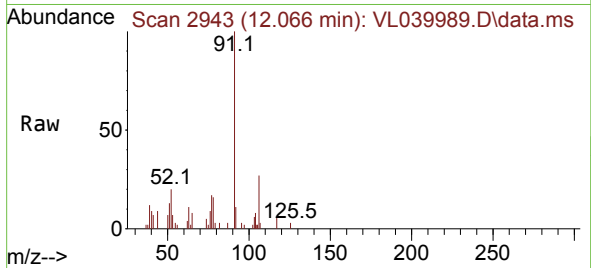




#58
Ethyl Benzene
Concen: 0.030 ppbv
RT: 12.066 min Scan# 2950
Delta R.T. 0.010 min
Lab File: VL039989.D
Acq: 12 Dec 2022 23:44

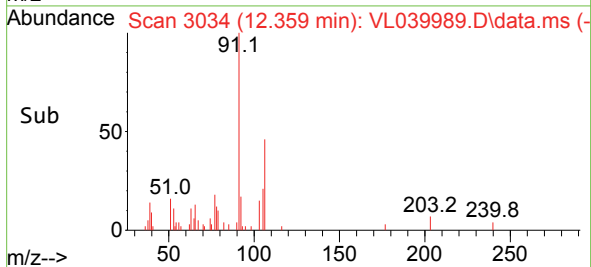
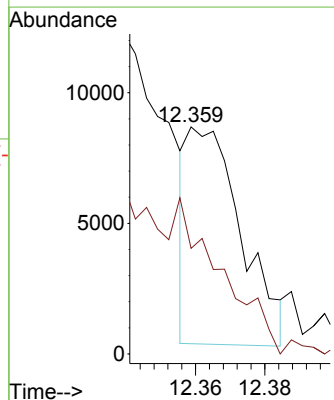
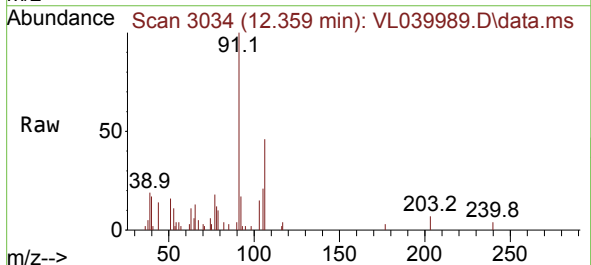
Instrument :
MSVOA_L
ClientSampleId :
IA-1

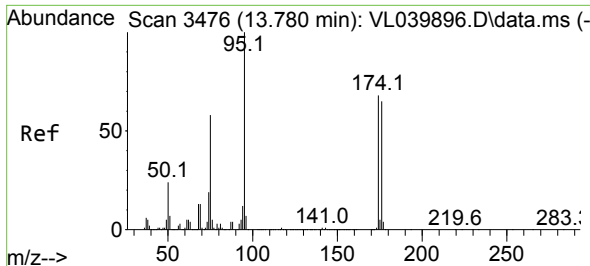
Tgt Ion: 91 Resp: 10384
Ion Ratio Lower Upper
91 100
106 30.1 26.1 39.1



#59
m/p-Xylene
Concen: 0.031 ppbv
RT: 12.359 min Scan# 3034
Delta R.T. 0.019 min
Lab File: VL039989.D
Acq: 12 Dec 2022 23:44

Tgt Ion: 91 Resp: 8989
Ion Ratio Lower Upper
91 100
106 0.0 37.0 55.6#

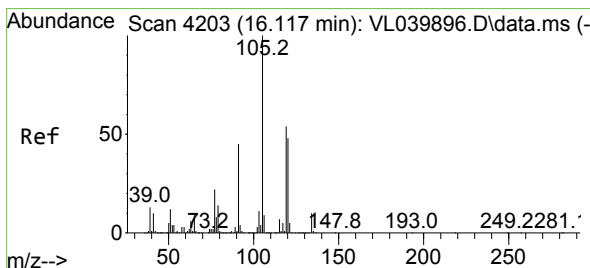
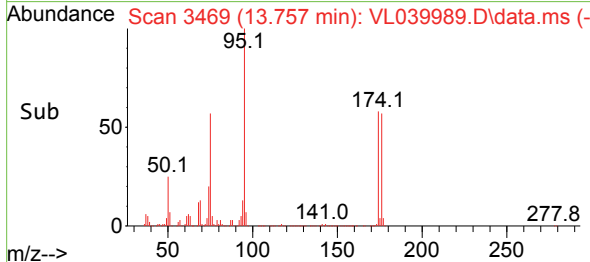
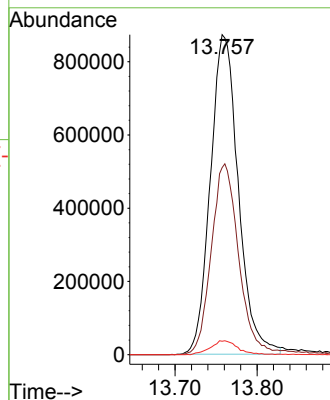
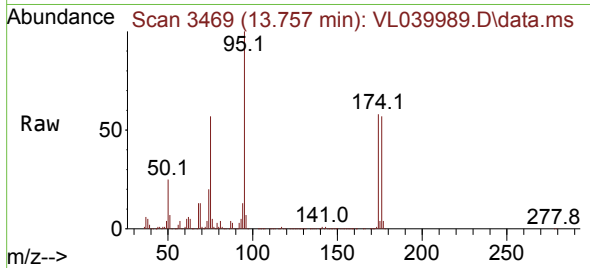




#68
1-Bromo-4-Fluorobenzene
Concen: 10.750 ppbv
RT: 13.757 min Scan# 3476
Delta R.T. 0.016 min
Lab File: VL039989.D
Acq: 12 Dec 2022 23:44

Instrument :
MSVOA_L
ClientSampleId :
IA-1

Tgt Ion: 95 Resp: 2068539
Ion Ratio Lower Upper
95 100
174 59.5 53.7 80.5
175 4.4 4.0 6.0



#74
1,2,4-Trimethylbenzene
Concen: 0.057 ppbv
RT: 16.098 min Scan# 4197
Delta R.T. 0.023 min
Lab File: VL039989.D
Acq: 12 Dec 2022 23:44

Tgt Ion: 105 Resp: 17076
Ion Ratio Lower Upper
105 100
120 46.5 38.7 58.1
91 25.5 36.4 54.6#
77 14.1 17.4 26.0#

