

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121222\
 Data File : VL039977.D
 Acq On : 12 Dec 2022 15:49
 Operator : SY/MD
 Sample : N5969-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1

Quant Time: Dec 13 06:11:07 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)

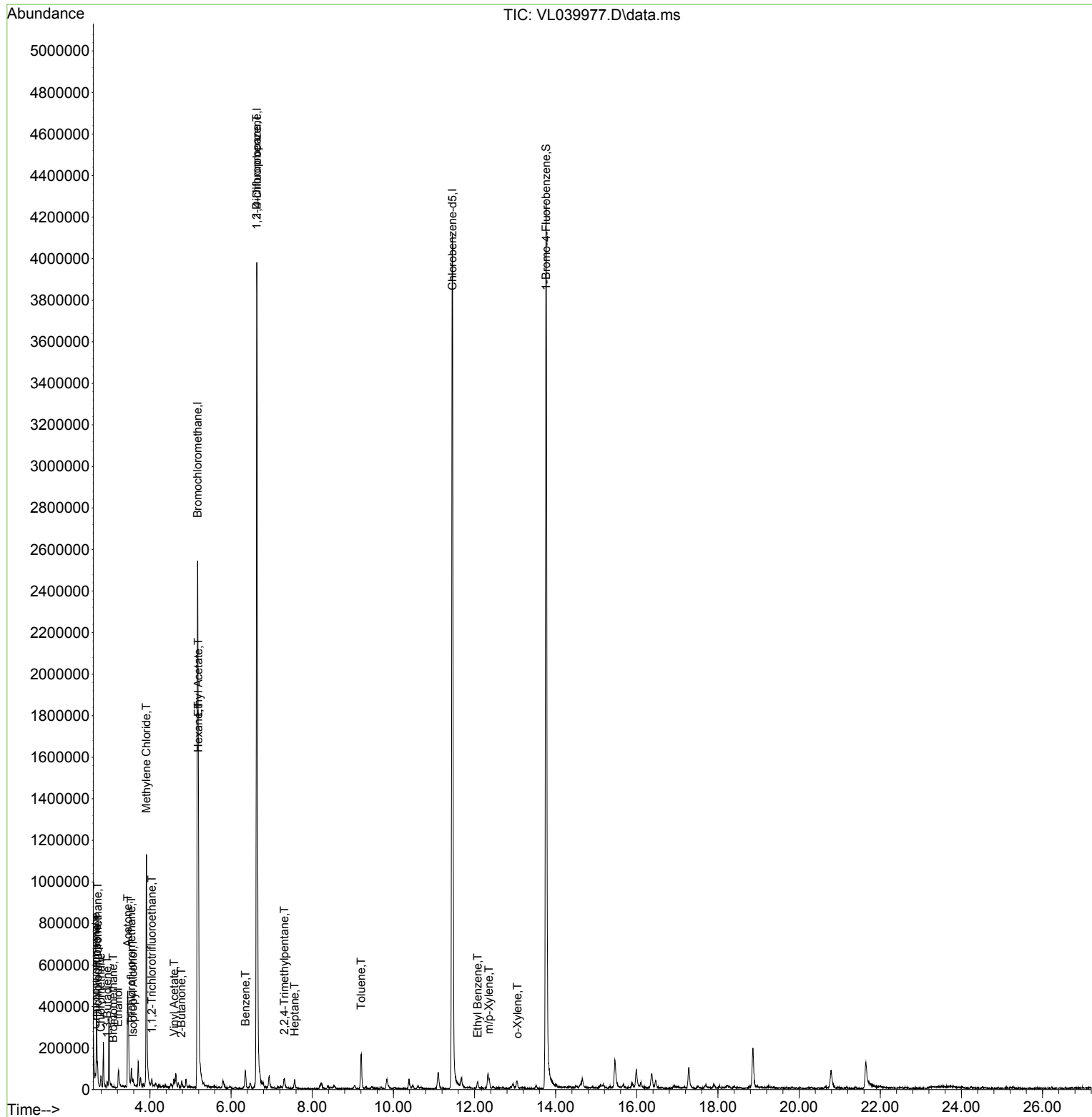
Internal Standards						
1) Bromochloromethane	5.172	49	1161064	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.635	114	3003714	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.455	117	2680775	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.764	95	2185515	10.673	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	= 106.700%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.709	85	57434	0.345	ppbv	94
3) Chlorodifluoromethane	2.658	51	50492	0.315	ppbv	99
4) Chloromethane	2.793	50	42254	0.413	ppbv #	87
6) Bromomethane	3.095	94	556	0.020	ppbv #	54
9) Propene	2.687	41	75659	1.003	ppbv #	73
10) Heptane	7.565	43	9592	0.053	ppbv #	54
11) Trichlorofluoromethane	3.542	101	46219	0.228	ppbv #	80
12) 1,1,2-Trichlorotrifluo...	4.047	101	7037	0.046	ppbv #	47
13) Ethanol	3.221	45	97234	16.875	ppbv	92
15) Acetone	3.452	43	517716	3.362	ppbv	99
16) 1,3-Butadiene	2.951	39	2708	0.035	ppbv #	74
19) Isopropyl Alcohol	3.581	45	6123	0.073	ppbv #	29
20) Methylene Chloride	3.912	84	378174	5.069	ppbv	96
23) Vinyl Acetate	4.600	43	28752	0.454	ppbv #	76
25) Ethyl Acetate	5.192	43	242388	0.857	ppbv #	81
26) Hexane	5.195	57	310518	2.514	ppbv #	42
34) 2-Butanone	4.777	43	13356	0.093	ppbv #	54
36) Benzene	6.352	78	66258	0.260	ppbv #	90
39) 1,2-Dichloropropane	6.632	63	750496	7.545	ppbv #	28
44) 2,2,4-Trimethylpentane	7.314	57	28425	0.067	ppbv #	49
53) Toluene	9.208	91	119531	0.411	ppbv	98
58) Ethyl Benzene	12.076	91	24593	0.068	ppbv #	87
59) m/p-Xylene	12.355	91	18910	0.062	ppbv #	30
60) o-Xylene	13.060	91	7709	0.027	ppbv #	1

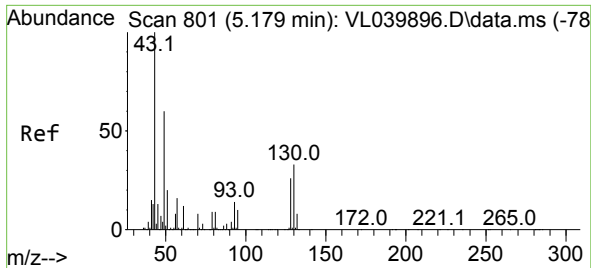
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 13 06:11:07 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL11822AIR.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
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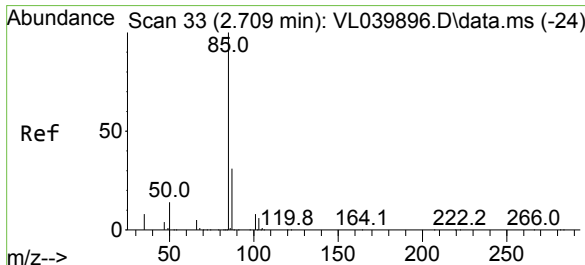
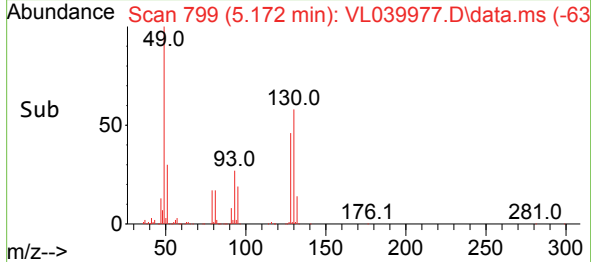
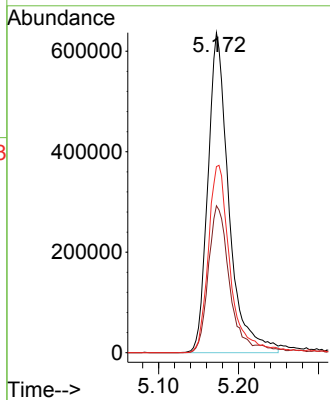
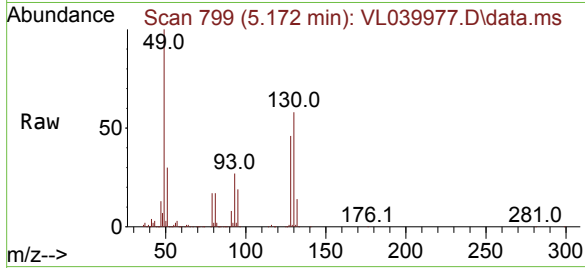




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.172 min Scan# 799
 Delta R.T. 0.016 min
 Lab File: VL039977.D
 Acq: 12 Dec 2022 15:49

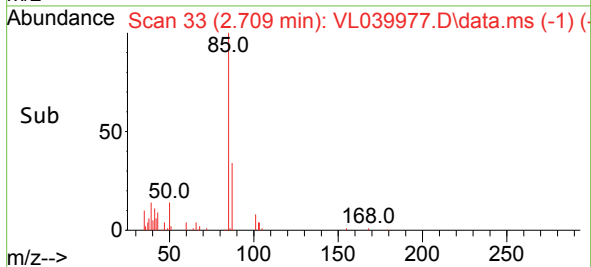
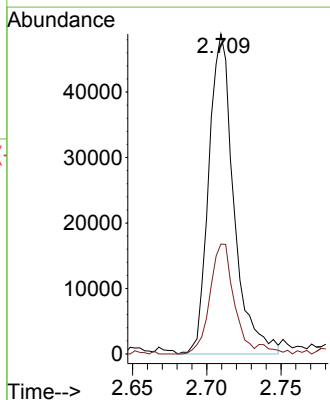
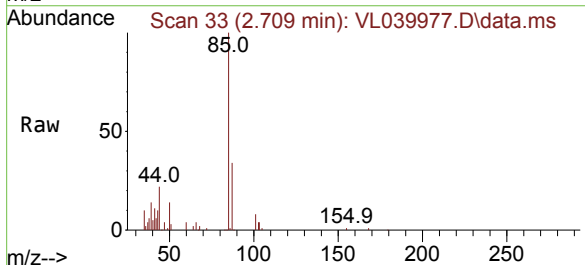
Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1

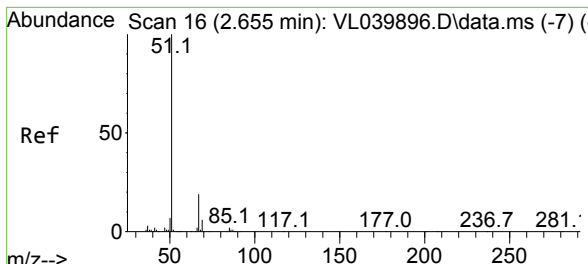
Tgt Ion: 49 Resp: 1161064
 Ion Ratio Lower Upper
 49 100
 128 48.6 22.1 66.3
 130 62.3 27.7 83.1



#2
 Dichlorodifluoromethane
 Concen: 0.345 ppbv
 RT: 2.709 min Scan# 33
 Delta R.T. 0.013 min
 Lab File: VL039977.D
 Acq: 12 Dec 2022 15:49

Tgt Ion: 85 Resp: 57434
 Ion Ratio Lower Upper
 85 100
 87 34.4 25.0 37.4

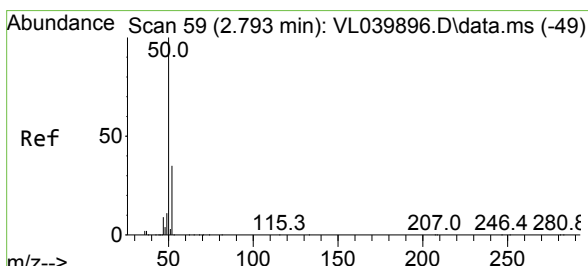
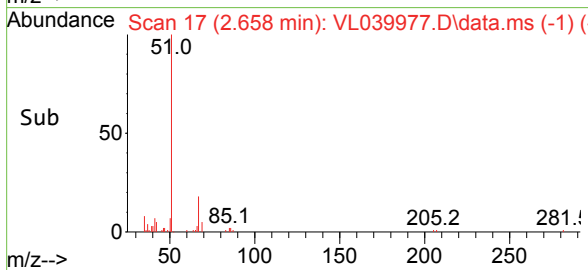
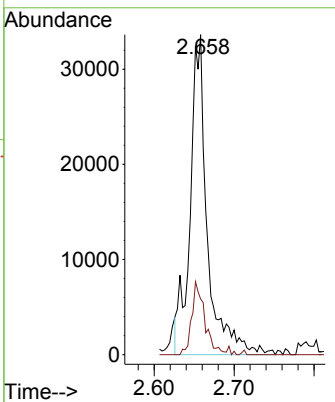
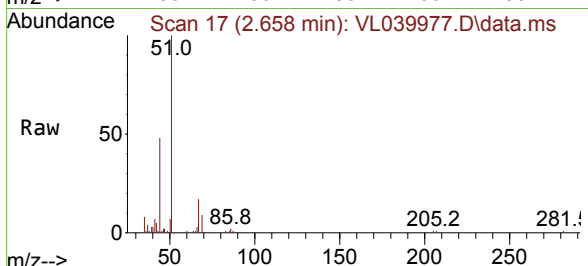




#3
 Chlorodifluoromethane
 Concen: 0.315 ppbv
 RT: 2.658 min Scan# 11
 Delta R.T. 0.016 min
 Lab File: VL039977.D
 Acq: 12 Dec 2022 15:49

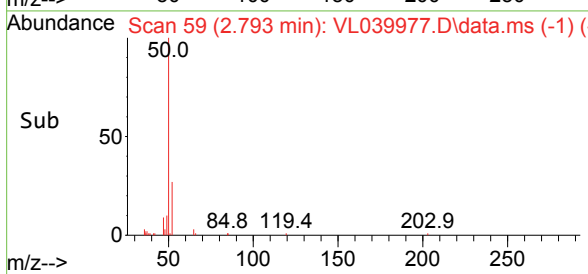
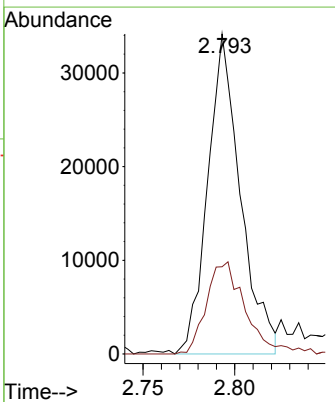
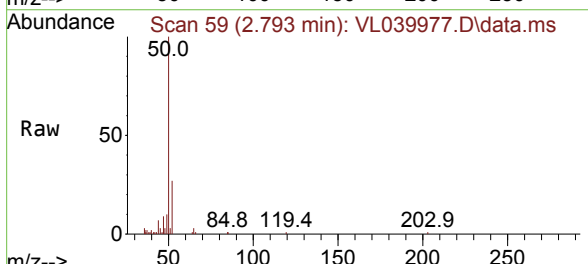
Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1

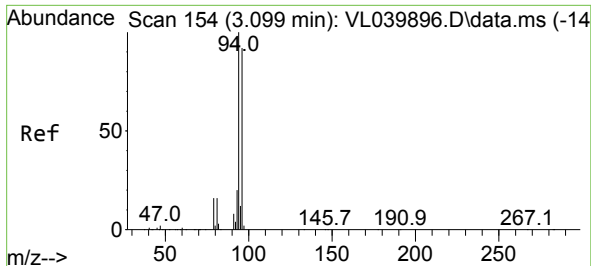
Tgt Ion:	51	Resp:	50492
Ion Ratio	Lower	Upper	
51	100		
67	18.1	14.2	21.4



#4
 Chloromethane
 Concen: 0.413 ppbv
 RT: 2.793 min Scan# 59
 Delta R.T. 0.013 min
 Lab File: VL039977.D
 Acq: 12 Dec 2022 15:49

Tgt Ion:	50	Resp:	42254
Ion Ratio	Lower	Upper	
50	100		
52	27.2	27.8	41.8#

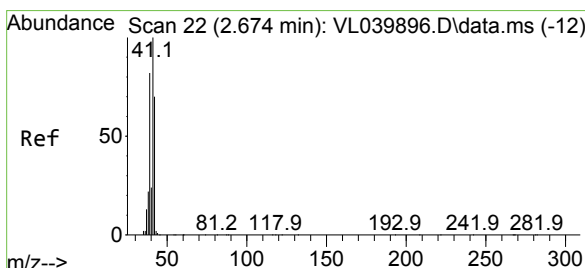
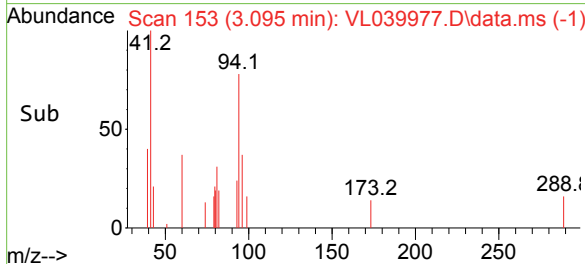
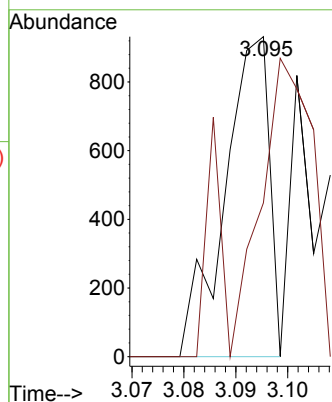
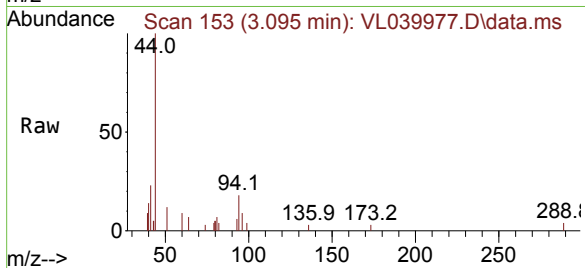




#6
Bromomethane
Concen: 0.020 ppbv
RT: 3.095 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL039977.D
Acq: 12 Dec 2022 15:49

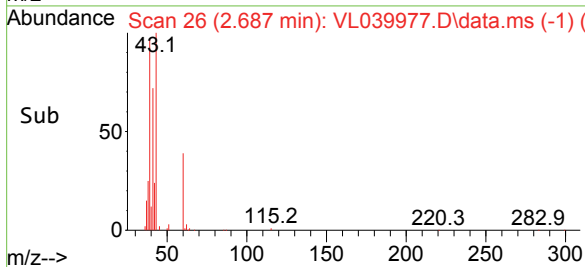
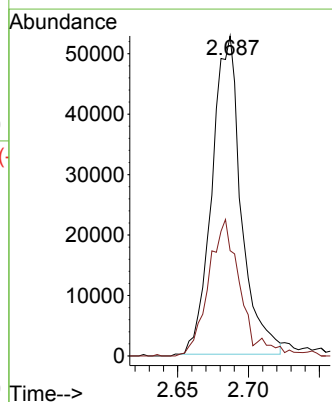
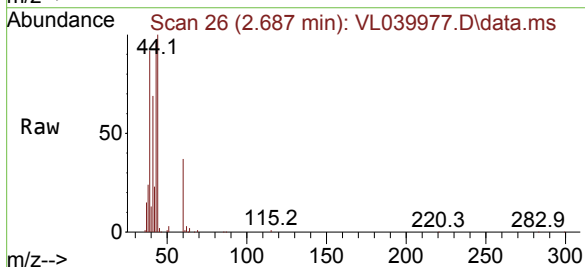
Instrument :
MSVOA_L
ClientSampleId :
AA-1

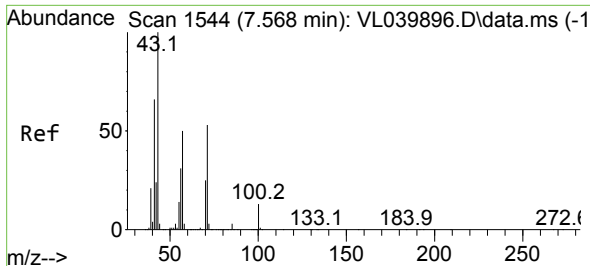
Tgt Ion: 94 Resp: 556
Ion Ratio Lower Upper
94 100
96 48.1 73.7 110.5#



#9
Propene
Concen: 1.003 ppbv
RT: 2.687 min Scan# 26
Delta R.T. 0.026 min
Lab File: VL039977.D
Acq: 12 Dec 2022 15:49

Tgt Ion: 41 Resp: 75659
Ion Ratio Lower Upper
41 100
42 47.9 55.8 83.6#

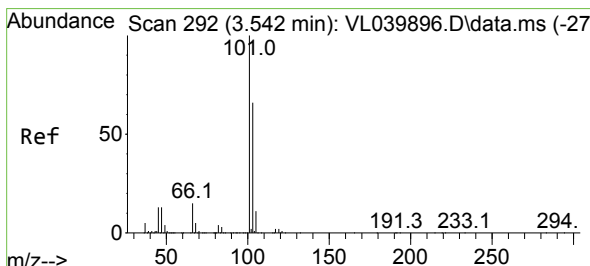
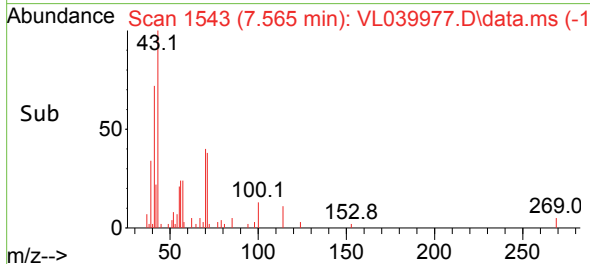
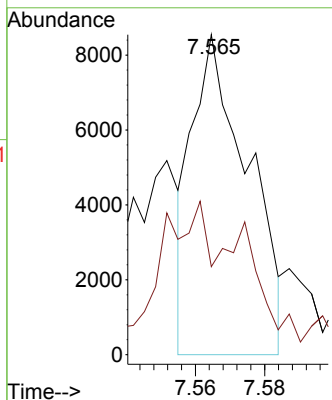
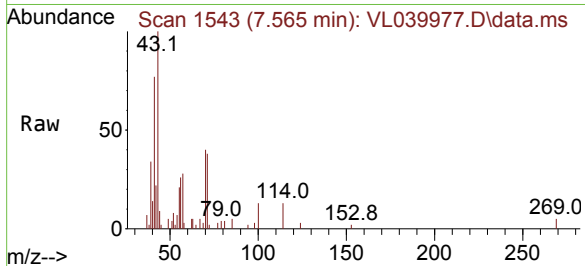




#10
 Heptane
 Concen: 0.053 ppbv
 RT: 7.565 min Scan# 11
 Delta R.T. 0.019 min
 Lab File: VL039977.D
 Acq: 12 Dec 2022 15:49

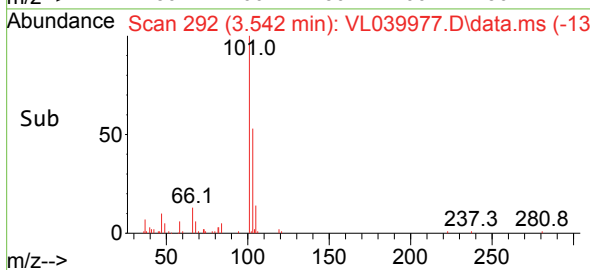
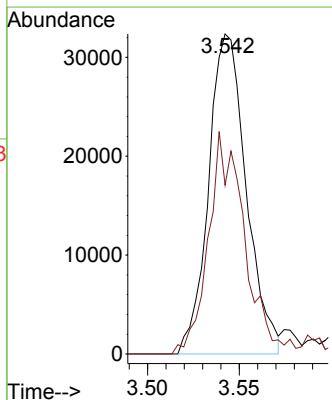
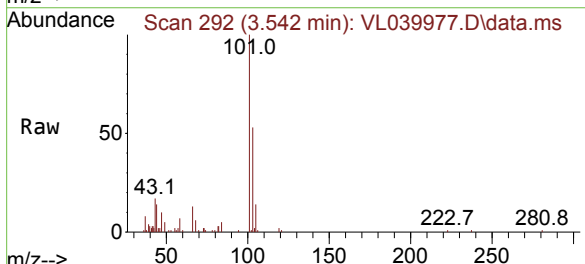
Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1

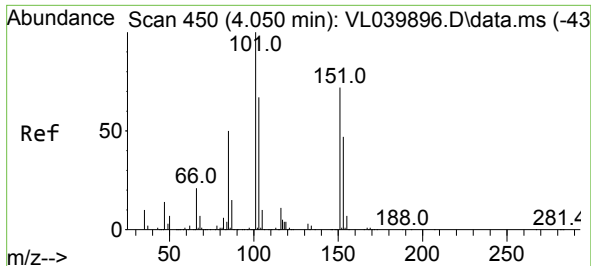
Tgt Ion: 43 Resp: 9592
 Ion Ratio Lower Upper
 43 100
 57 82.9 40.7 61.1#



#11
 Trichlorofluoromethane
 Concen: 0.228 ppbv
 RT: 3.542 min Scan# 292
 Delta R.T. 0.013 min
 Lab File: VL039977.D
 Acq: 12 Dec 2022 15:49

Tgt Ion: 101 Resp: 46219
 Ion Ratio Lower Upper
 101 100
 103 49.9 52.6 78.8#





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.046 ppbv

RT: 4.047 min Scan# 449

Delta R.T. 0.016 min

Lab File: VL039977.D

Acq: 12 Dec 2022 15:49

Instrument :

MSVOA_L

ClientSampleId :

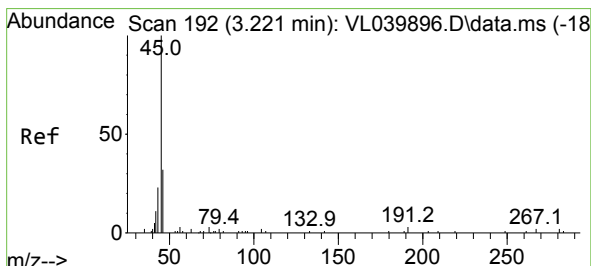
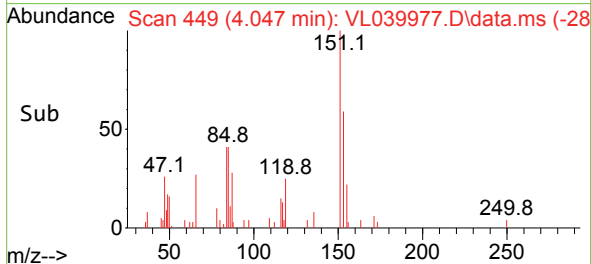
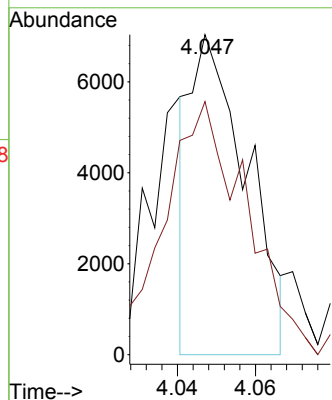
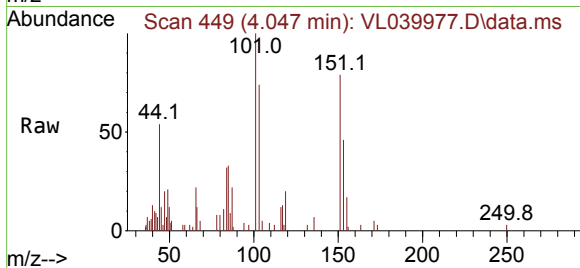
AA-1

Tgt Ion:101 Resp: 7037

Ion Ratio Lower Upper

101 100

151 119.2 59.6 89.4#



#13

Ethanol

Concen: 16.875 ppbv

RT: 3.221 min Scan# 192

Delta R.T. 0.006 min

Lab File: VL039977.D

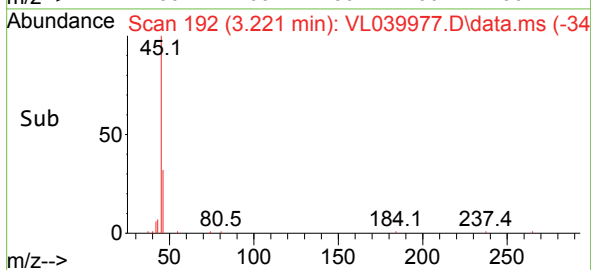
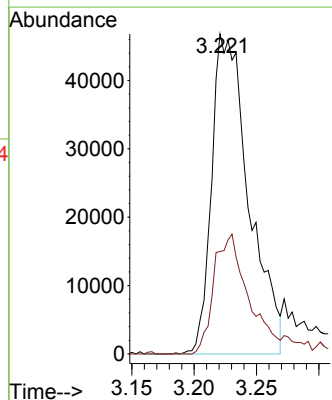
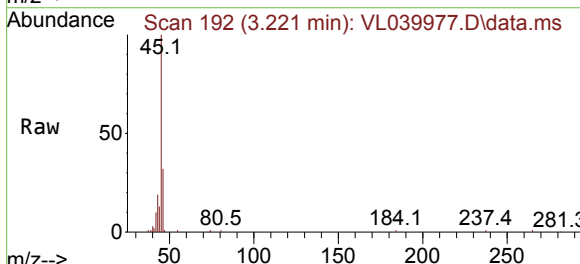
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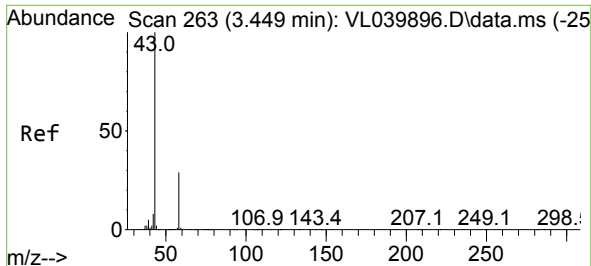
Tgt Ion: 45 Resp: 97234

Ion Ratio Lower Upper

45 100

46 41.2 14.6 58.2





#15

Acetone

Concen: 3.362 ppbv

RT: 3.452 min Scan# 20

Delta R.T. 0.019 min

Lab File: VL039977.D

Acq: 12 Dec 2022 15:49

Instrument :

MSVOA_L

ClientSampleId :

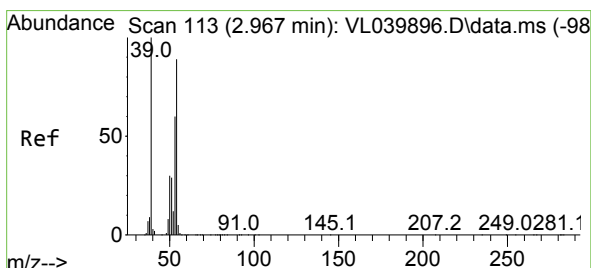
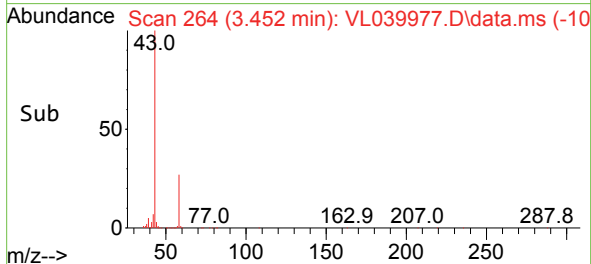
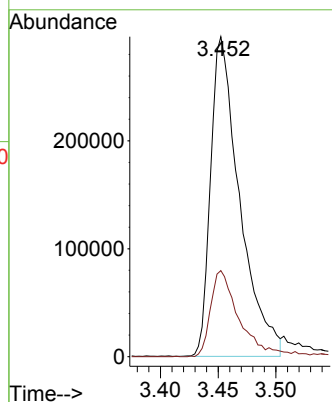
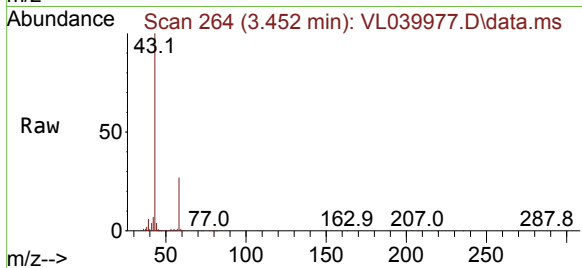
AA-1

Tgt Ion: 43 Resp: 517716

Ion Ratio Lower Upper

43 100

58 28.2 22.9 34.3



#16

1,3-Butadiene

Concen: 0.035 ppbv

RT: 2.951 min Scan# 108

Delta R.T. 0.000 min

Lab File: VL039977.D

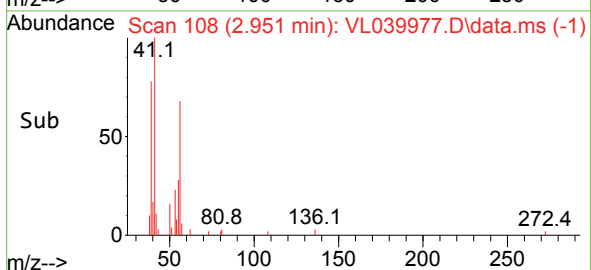
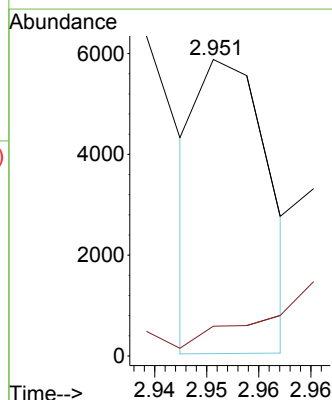
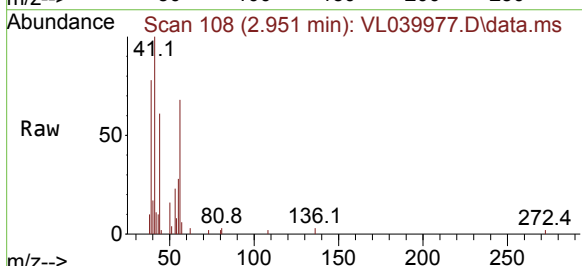
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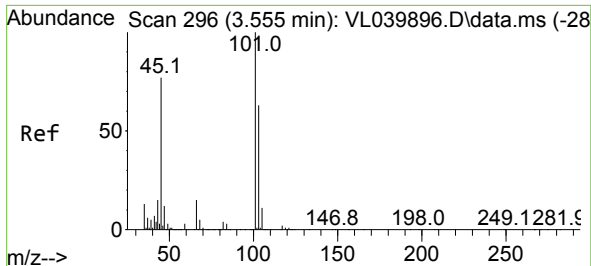
Tgt Ion: 39 Resp: 2708

Ion Ratio Lower Upper

39 100

54 59.8 66.6 99.8#





#19

Isopropyl Alcohol

Concen: 0.073 ppbv

RT: 3.581 min Scan# 304

Delta R.T. 0.039 min

Lab File: VL039977.D

Acq: 12 Dec 2022 15:49

Instrument :

MSVOA_L

ClientSampleId :

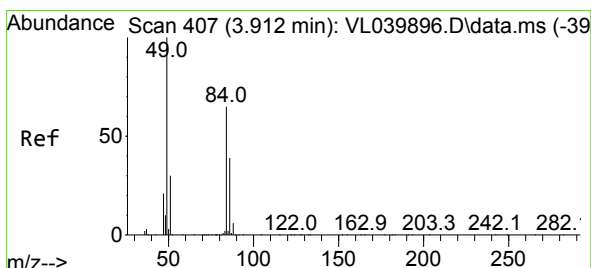
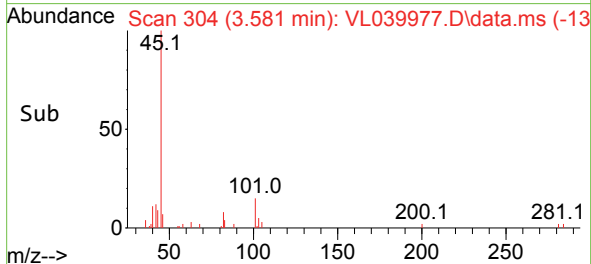
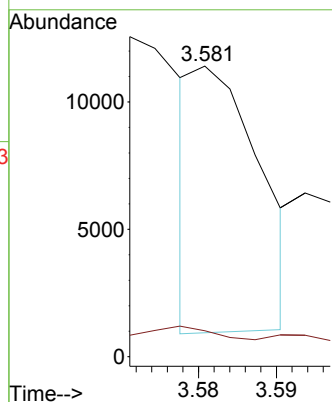
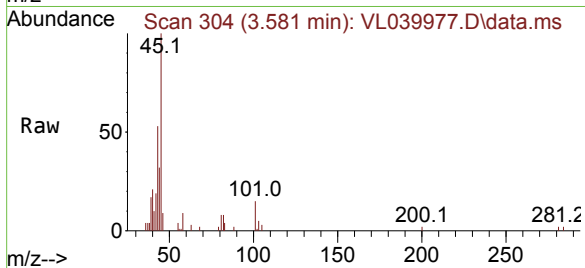
AA-1

Tgt Ion: 45 Resp: 6123

Ion Ratio Lower Upper

45 100

58 0.0 38.7 58.1#



#20

Methylene Chloride

Concen: 5.069 ppbv

RT: 3.912 min Scan# 407

Delta R.T. 0.016 min

Lab File: VL039977.D

Acq: 12 Dec 2022 15:49

Tgt Ion: 84 Resp: 378174

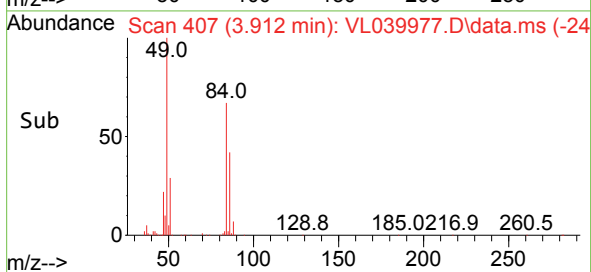
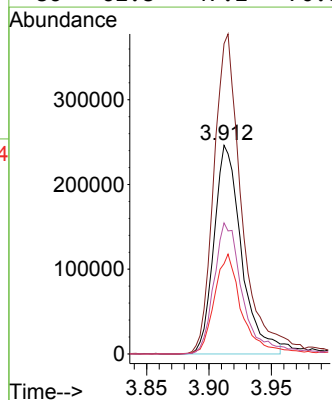
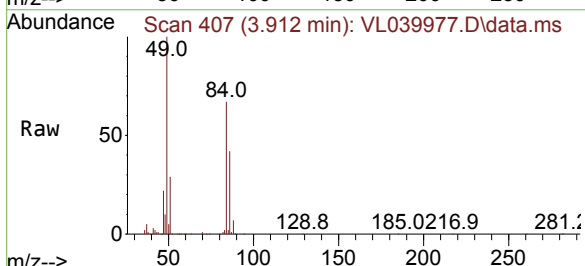
Ion Ratio Lower Upper

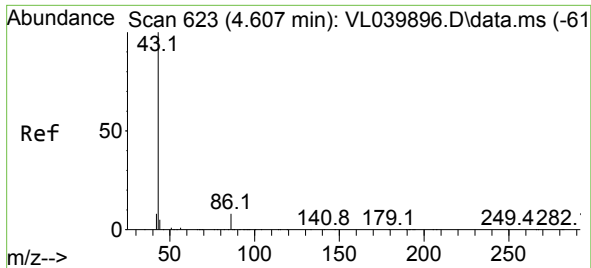
84 100

49 148.7 122.2 183.4

51 43.1 36.3 54.5

86 62.8 47.2 70.8

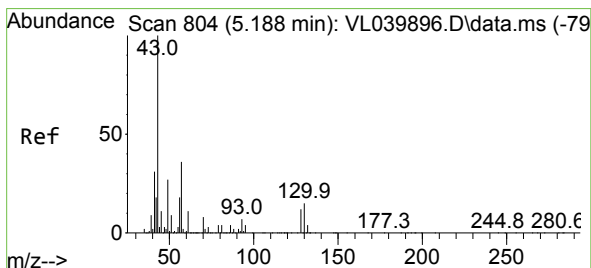
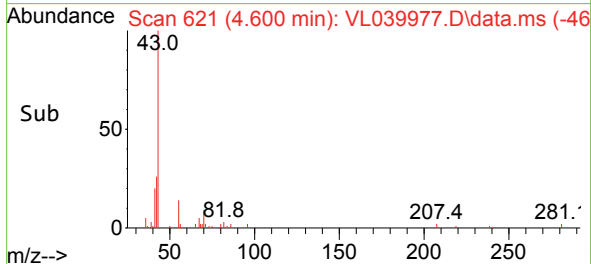
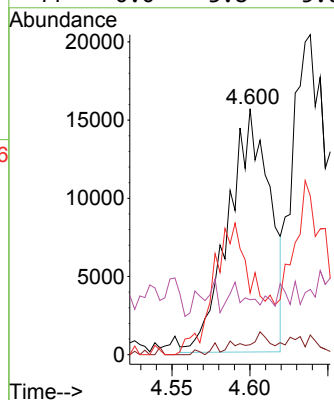
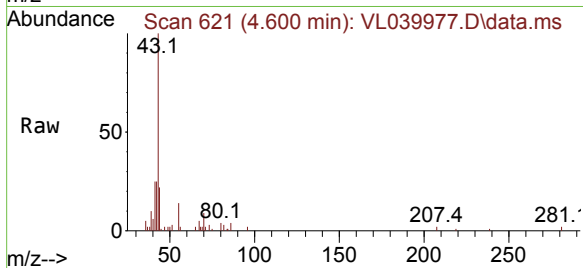




#23
 Vinyl Acetate
 Concen: 0.454 ppbv
 RT: 4.600 min Scan# 61
 Delta R.T. 0.006 min
 Lab File: VL039977.D
 Acq: 12 Dec 2022 15:49

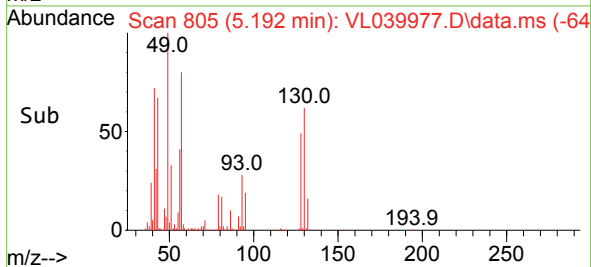
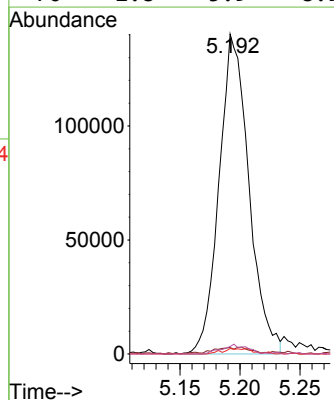
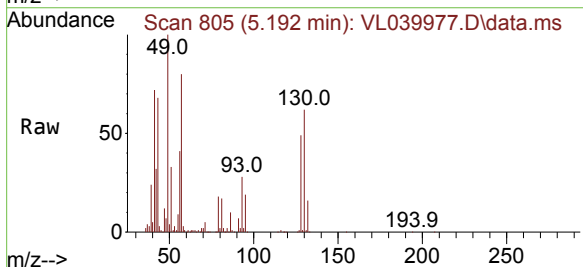
Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1

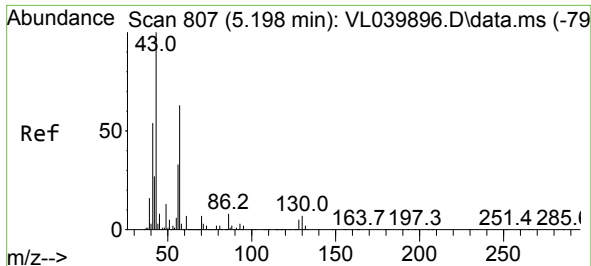
Tgt Ion:	43	Resp:	28752
Ion	Ratio	Lower	Upper
43	100		
86	4.2	5.0	7.4#
42	24.7	7.6	11.4#
44	0.0	3.8	5.6#



#25
 Ethyl Acetate
 Concen: 0.857 ppbv
 RT: 5.192 min Scan# 805
 Delta R.T. 0.023 min
 Lab File: VL039977.D
 Acq: 12 Dec 2022 15:49

Tgt Ion:	43	Resp:	242388
Ion	Ratio	Lower	Upper
43	100		
45	3.2	8.4	12.6#
61	1.8	8.5	12.7#
70	2.8	5.9	8.9#

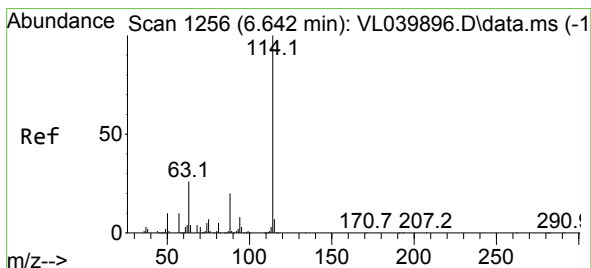
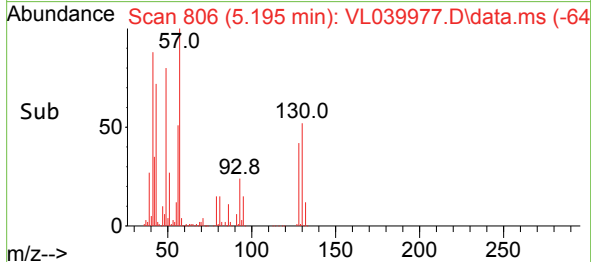
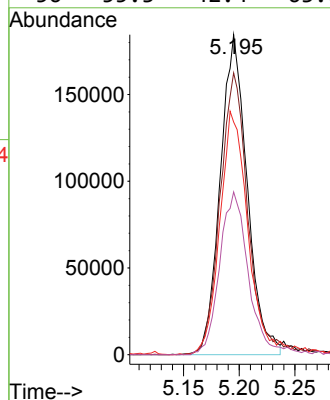
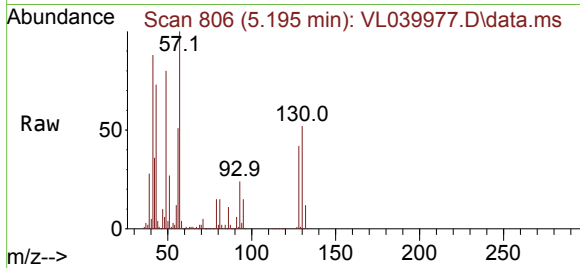




#26
Hexane
Concen: 2.514 ppbv
RT: 5.195 min Scan# 807
Delta R.T. 0.019 min
Lab File: VL039977.D
Acq: 12 Dec 2022 15:49

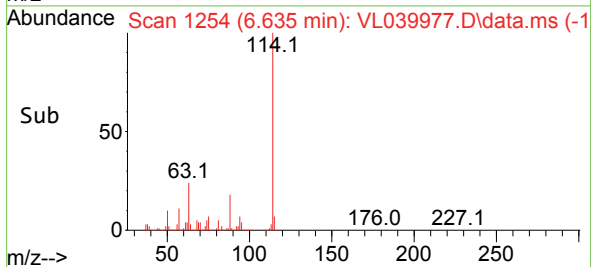
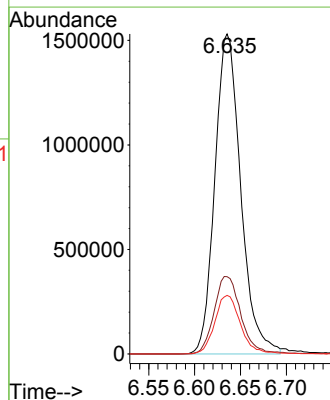
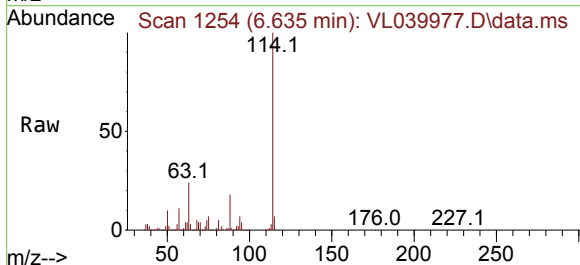
Instrument :
MSVOA_L
ClientSampleId :
AA-1

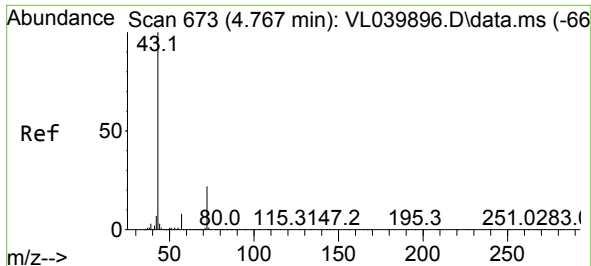
Tgt Ion: 57 Resp: 310518
Ion Ratio Lower Upper
57 100
41 92.5 72.3 108.5
43 82.2 188.7 283.1#
56 55.3 42.4 63.6



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.635 min Scan# 1254
Delta R.T. 0.016 min
Lab File: VL039977.D
Acq: 12 Dec 2022 15:49

Tgt Ion:114 Resp: 3003714
Ion Ratio Lower Upper
114 100
63 25.2 21.4 32.0
88 18.3 15.3 22.9

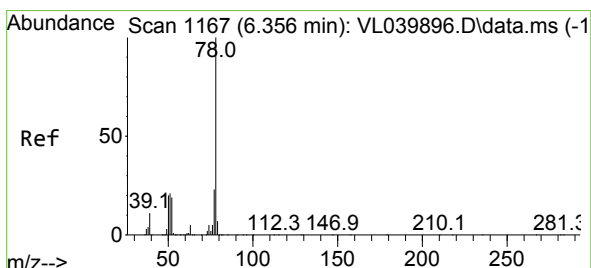
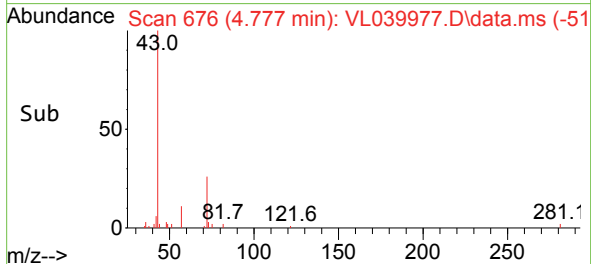
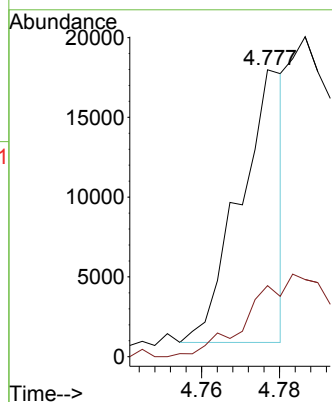
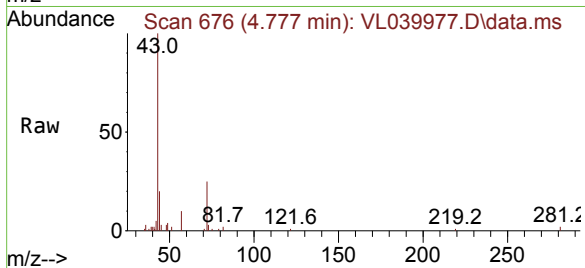




#34
2-Butanone
Concen: 0.093 ppbv
RT: 4.777 min Scan# 61
Delta R.T. 0.026 min
Lab File: VL039977.D
Acq: 12 Dec 2022 15:49

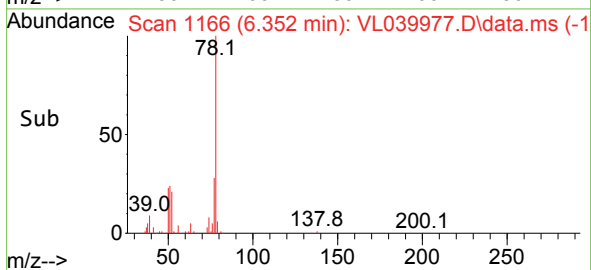
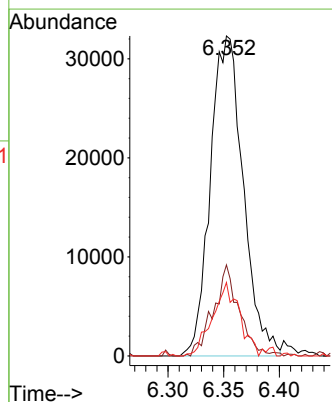
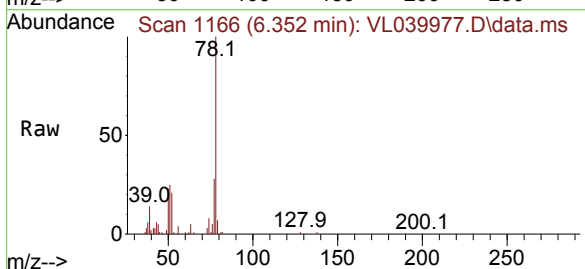
Instrument :
MSVOA_L
ClientSampleId :
AA-1

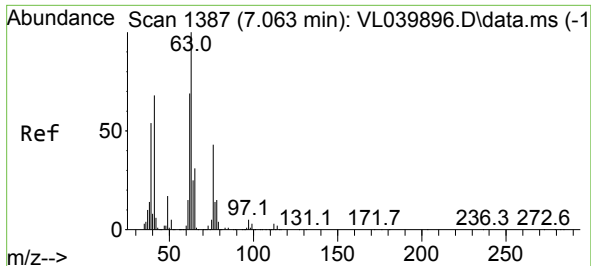
Tgt Ion: 43 Resp: 13356
Ion Ratio Lower Upper
43 100
72 0.0 17.4 26.2#



#36
Benzene
Concen: 0.260 ppbv
RT: 6.352 min Scan# 1166
Delta R.T. 0.019 min
Lab File: VL039977.D
Acq: 12 Dec 2022 15:49

Tgt Ion: 78 Resp: 66258
Ion Ratio Lower Upper
78 100
77 28.4 18.2 27.2#
50 22.9 15.8 23.8





#39

1,2-Dichloropropane

Concen: 7.545 ppbv

RT: 6.632 min Scan# 1

Delta R.T. -0.402 min

Lab File: VL039977.D

Acq: 12 Dec 2022 15:49

Instrument :

MSVOA_L

ClientSampleId :

AA-1

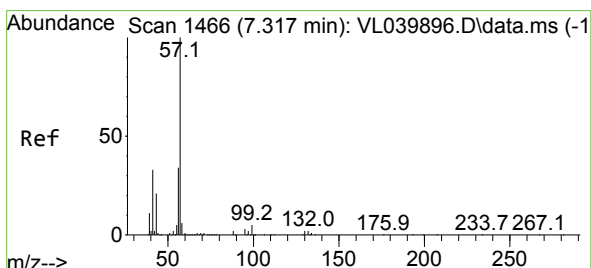
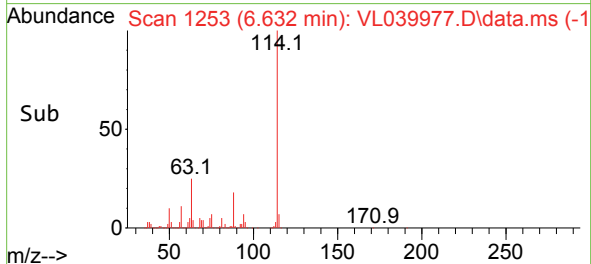
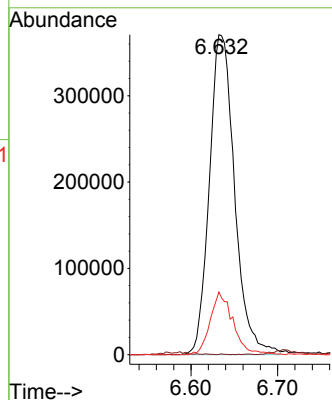
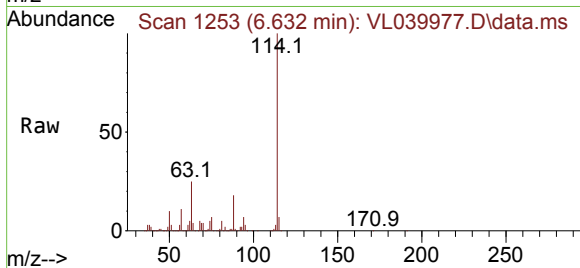
Tgt Ion: 63 Resp: 750496

Ion Ratio Lower Upper

63 100

41 0.0 54.7 82.1#

62 19.5 55.0 82.6#



#44

2,2,4-Trimethylpentane

Concen: 0.067 ppbv

RT: 7.314 min Scan# 1465

Delta R.T. 0.023 min

Lab File: VL039977.D

Acq: 12 Dec 2022 15:49

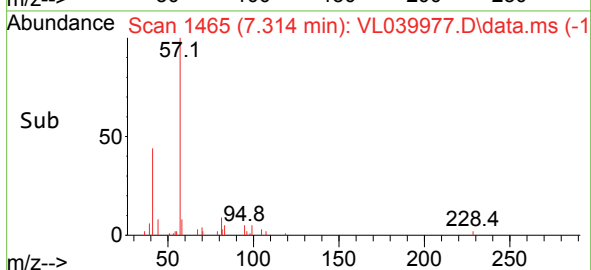
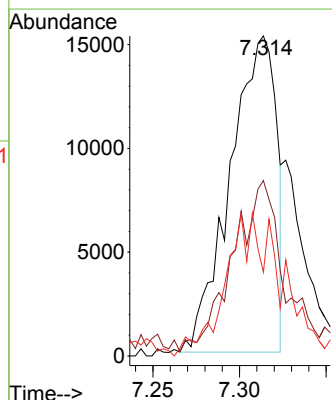
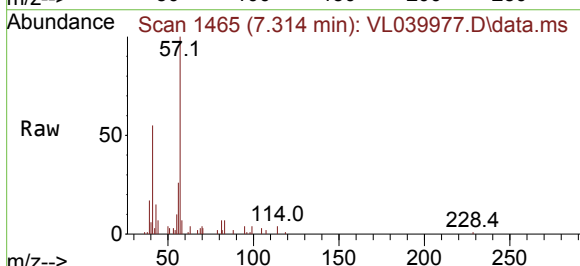
Tgt Ion: 57 Resp: 28425

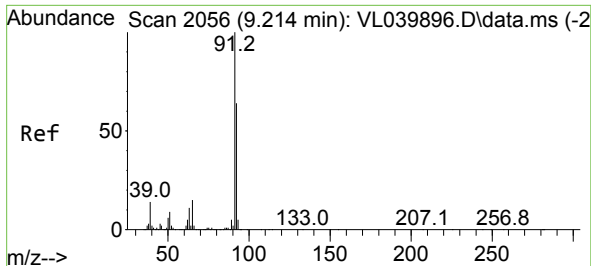
Ion Ratio Lower Upper

57 100

41 67.5 26.2 39.2#

56 54.6 25.5 38.3#





#53

Toluene

Concen: 0.411 ppbv

RT: 9.208 min Scan# 2056

Delta R.T. 0.023 min

Lab File: VL039977.D

Acq: 12 Dec 2022 15:49

Instrument :

MSVOA_L

ClientSampleId :

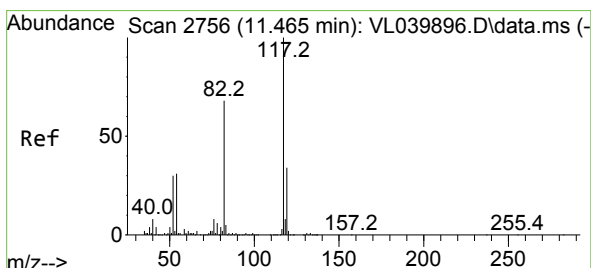
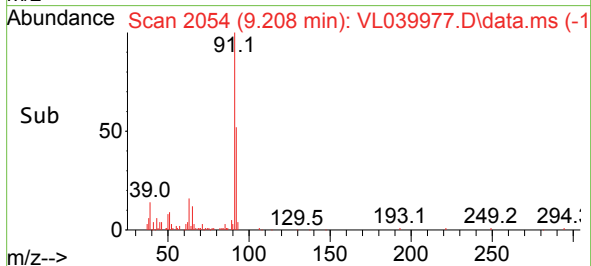
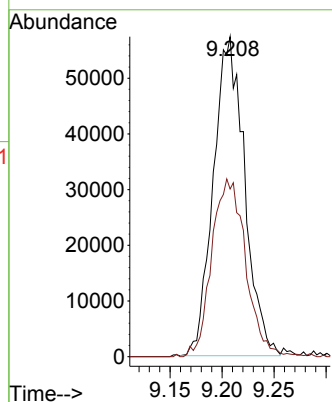
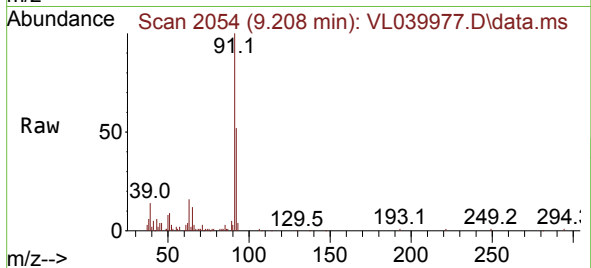
AA-1

Tgt Ion: 91 Resp: 119531

Ion Ratio Lower Upper

91 100

92 60.7 49.8 74.6



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.455 min Scan# 2753

Delta R.T. 0.023 min

Lab File: VL039977.D

Acq: 12 Dec 2022 15:49

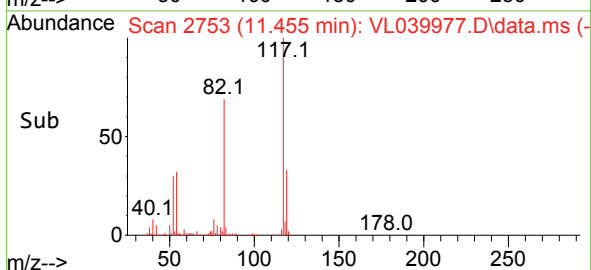
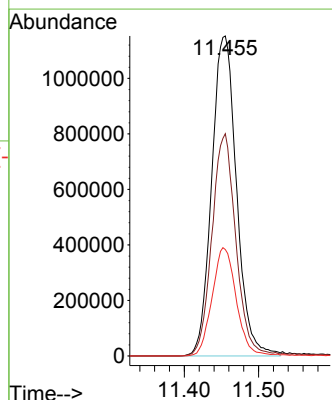
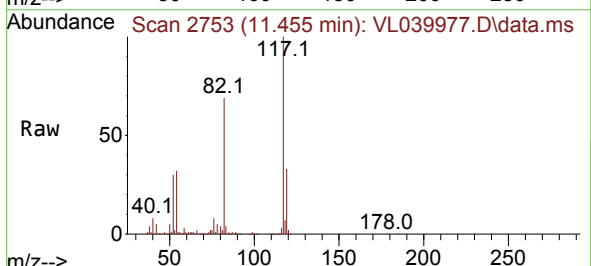
Tgt Ion: 117 Resp: 2680775

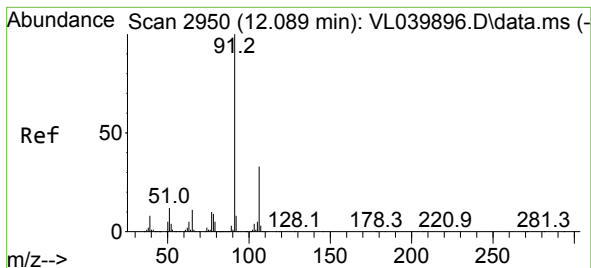
Ion Ratio Lower Upper

117 100

82 68.2 52.3 78.5

119 33.2 25.7 38.5





#58

Ethyl Benzene

Concen: 0.068 ppbv

RT: 12.076 min Scan# 2946

Delta R.T. 0.019 min

Lab File: VL039977.D

Acq: 12 Dec 2022 15:49

Instrument :

MSVOA_L

ClientSampleId :

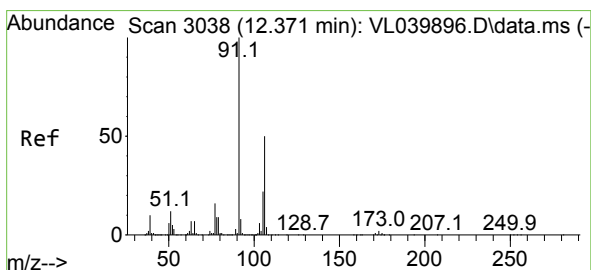
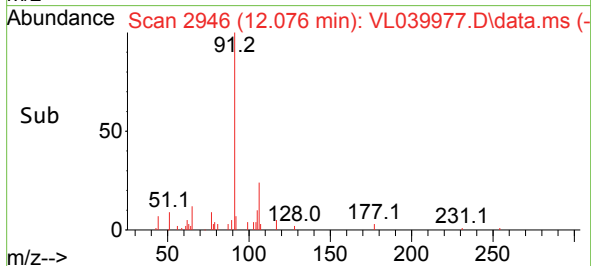
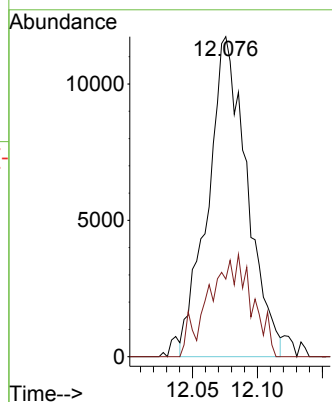
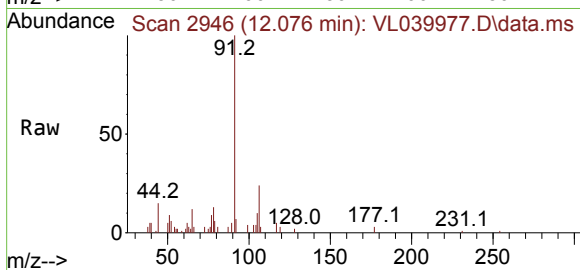
AA-1

Tgt Ion: 91 Resp: 24593

Ion Ratio Lower Upper

91 100

106 25.3 26.1 39.1#



#59

m/p-Xylene

Concen: 0.062 ppbv

RT: 12.355 min Scan# 3033

Delta R.T. 0.016 min

Lab File: VL039977.D

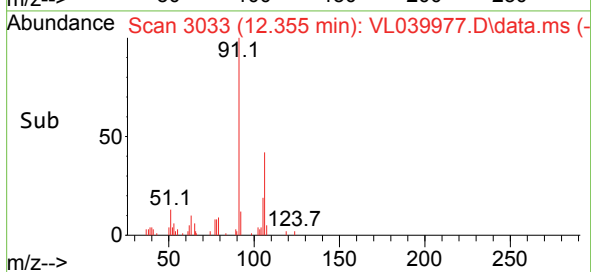
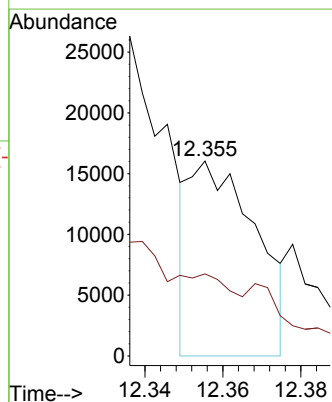
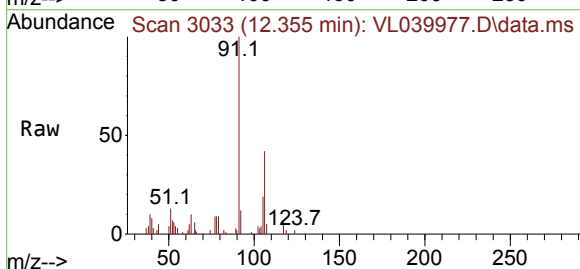
Acq: 12 Dec 2022 15:49

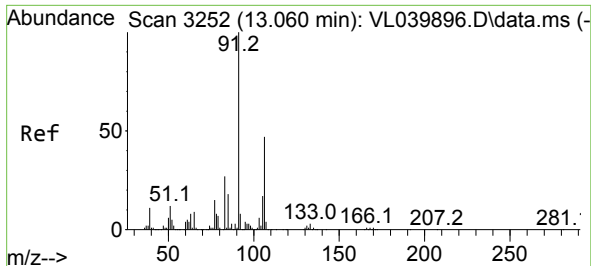
Tgt Ion: 91 Resp: 18910

Ion Ratio Lower Upper

91 100

106 0.0 37.0 55.6#

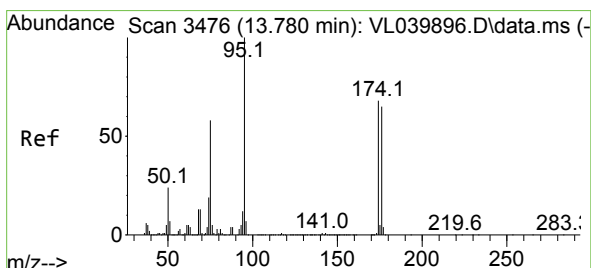
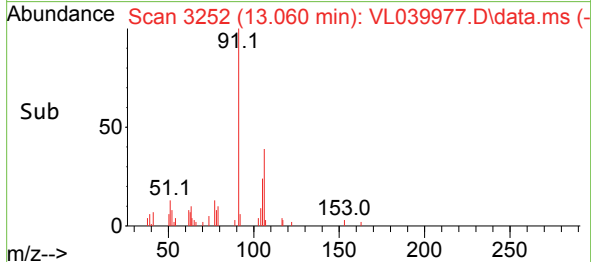
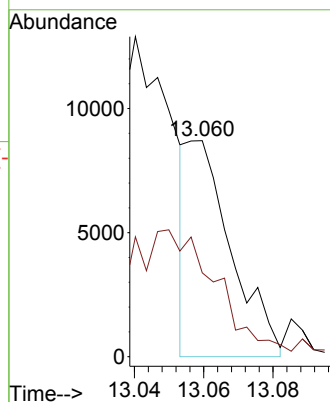
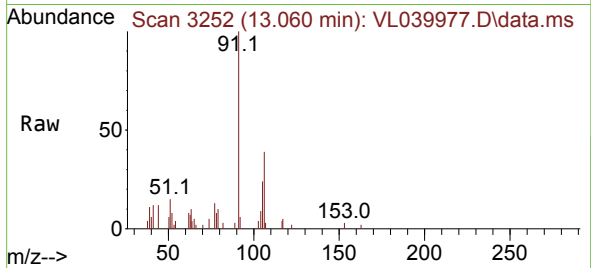




#60
o-Xylene
Concen: 0.027 ppbv
RT: 13.060 min Scan# 31
Delta R.T. 0.032 min
Lab File: VL039977.D
Acq: 12 Dec 2022 15:49

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Tgt Ion: 91 Resp: 7709
Ion Ratio Lower Upper
91 100
106 150.5 23.2 69.6#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.673 ppbv
RT: 13.764 min Scan# 3471
Delta R.T. 0.023 min
Lab File: VL039977.D
Acq: 12 Dec 2022 15:49

Tgt Ion: 95 Resp: 2185515
Ion Ratio Lower Upper
95 100
174 60.8 53.7 80.5
175 4.3 4.0 6.0

