

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121222\
 Data File : VL039981.D
 Acq On : 12 Dec 2022 18:27
 Operator : SY/MD
 Sample : N5971-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-4

Quant Time: Dec 13 06:12:51 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)

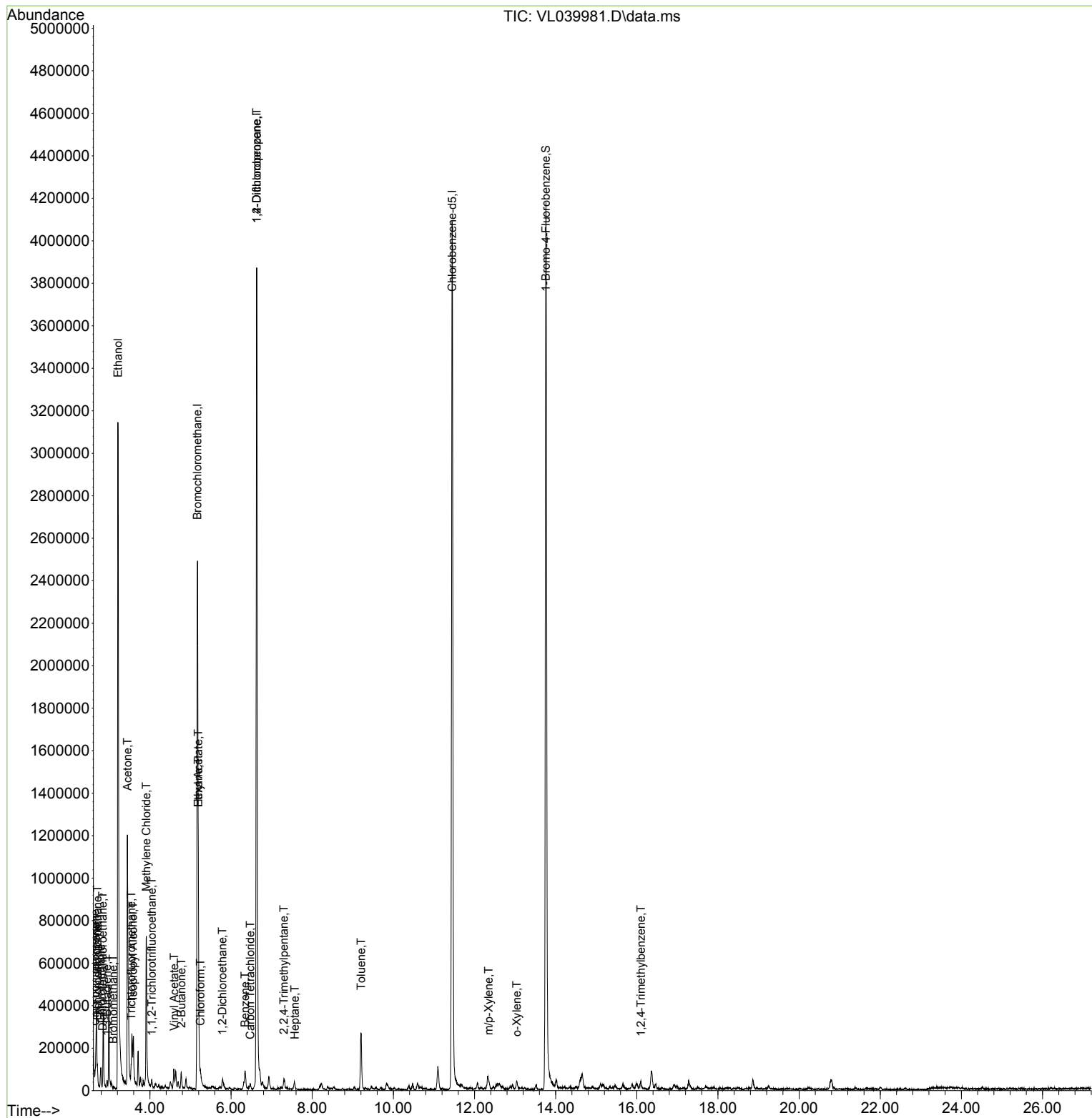
Internal Standards						
1) Bromochloromethane	5.169	49	1103712	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.632	114	2868111	10.000	ppbv	0.01
55) Chlorobenzene-d5	11.449	117	2631422	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.761	95	2137650	10.636	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.706	85	48755	0.308	ppbv	97
3) Chlorodifluoromethane	2.652	51	73311	0.481	ppbv	98
4) Chloromethane	2.790	50	68252	0.701	ppbv	96
6) Bromomethane	3.092	94	606	0.023	ppbv #	20
8) Dichlorotetrafluoroethane	2.835	85	4907	0.027	ppbv #	74
9) Propene	2.677	41	111835	1.559	ppbv	87
10) Heptane	7.571	43	4355	0.025	ppbv #	27
11) Trichlorofluoromethane	3.539	101	48989	0.254	ppbv #	83
12) 1,1,2-Trichlorotrifluo...	4.044	101	11072	0.076	ppbv	97
13) Ethanol	3.211	45	3351495	611.880	ppbv	99
15) Acetone	3.446	43	1211001	8.272	ppbv	98
16) 1,3-Butadiene	2.944	39	11013	0.151	ppbv #	54
19) Isopropyl Alcohol	3.584	45	46133	0.582	ppbv #	29
20) Methylene Chloride	3.912	84	243288	3.430	ppbv	93
23) Vinyl Acetate	4.600	43	23567	0.392	ppbv #	94
25) Ethyl Acetate	5.192	43	159184	0.592	ppbv #	82
26) Hexane	5.192	57	196419	1.673	ppbv #	42
29) Chloroform	5.247	83	9103	0.058	ppbv	88
34) 2-Butanone	4.774	43	80667	0.588	ppbv	94
35) Carbon Tetrachloride	6.475	117	5961	0.037	ppbv	93
36) Benzene	6.343	78	29190	0.120	ppbv #	88
37) 1,2-Dichloroethane	5.787	62	7815	0.058	ppbv	99
39) 1,2-Dichloropropane	6.632	63	711509	7.491	ppbv #	26
44) 2,2,4-Trimethylpentane	7.304	57	13955	0.034	ppbv #	1
53) Toluene	9.208	91	210734	0.759	ppbv	97
59) m/p-Xylene	12.349	91	21370	0.072	ppbv #	30
60) o-Xylene	13.040	91	15899	0.056	ppbv #	54
74) 1,2,4-Trimethylbenzene	16.101	105	12878	0.041	ppbv #	57

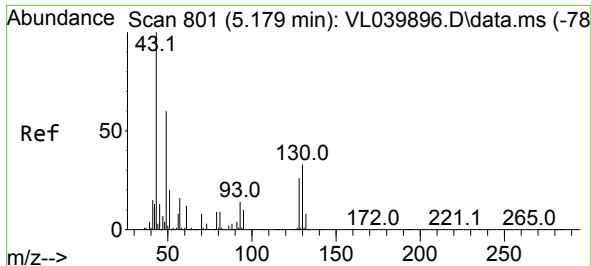
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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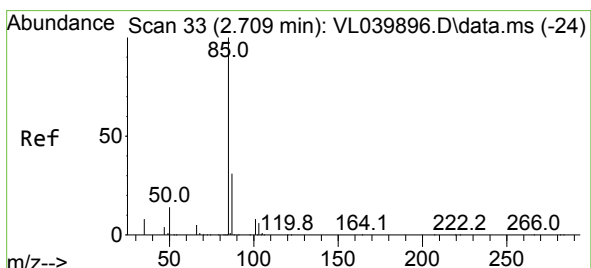
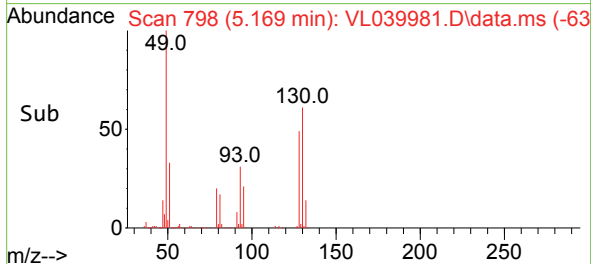
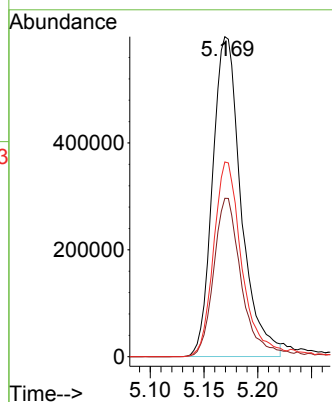
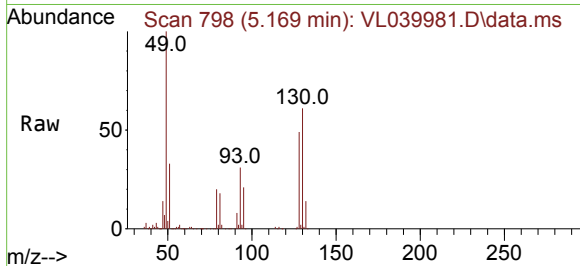




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.169 min Scan# 79
Delta R.T. 0.013 min
Lab File: VL039981.D
Acq: 12 Dec 2022 18:27

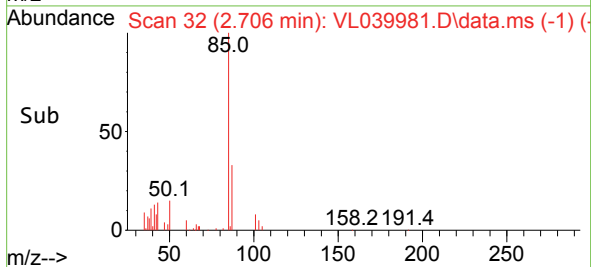
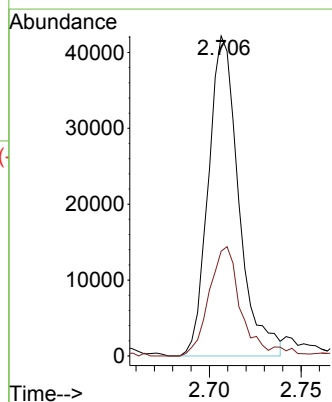
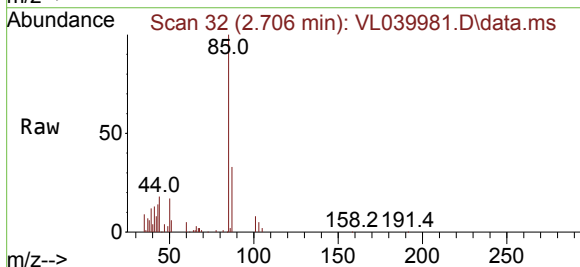
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MSVOA_L
ClientSampleId :
IA-4

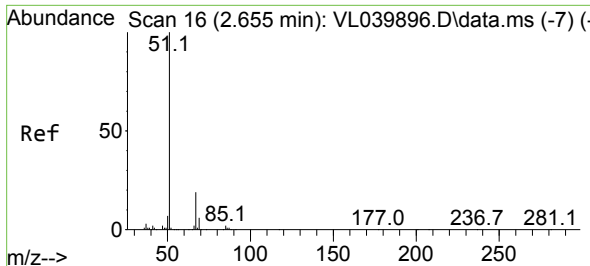
Tgt Ion: 49 Resp: 1103712
Ion Ratio Lower Upper
49 100
128 48.8 22.1 66.3
130 62.8 27.7 83.1



#2
Dichlorodifluoromethane
Concen: 0.308 ppbv
RT: 2.706 min Scan# 32
Delta R.T. 0.010 min
Lab File: VL039981.D
Acq: 12 Dec 2022 18:27

Tgt Ion: 85 Resp: 48755
Ion Ratio Lower Upper
85 100
87 32.8 25.0 37.4

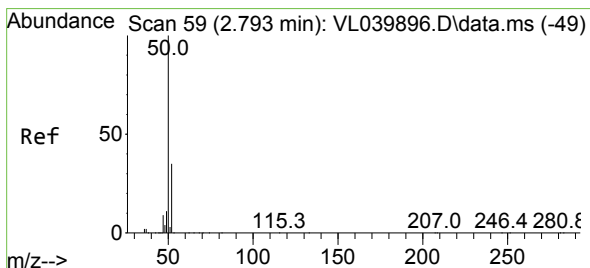
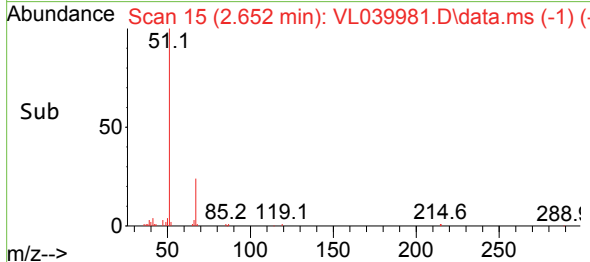
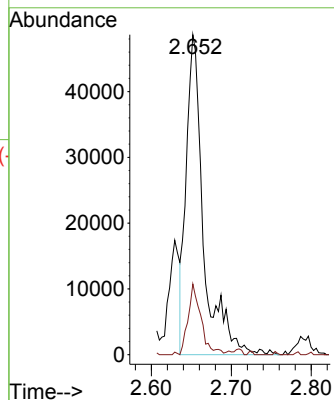
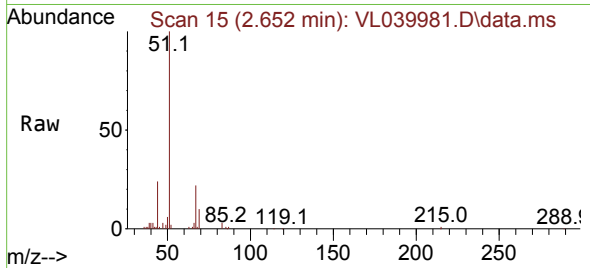




#3
Chlorodifluoromethane
Concen: 0.481 ppbv
RT: 2.652 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL039981.D
Acq: 12 Dec 2022 18:27

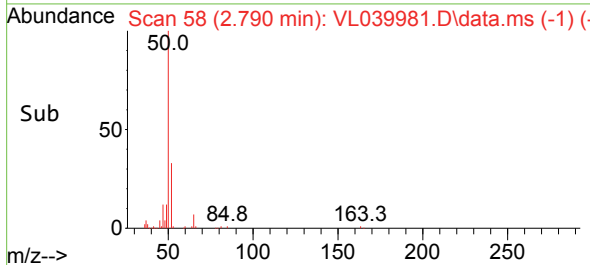
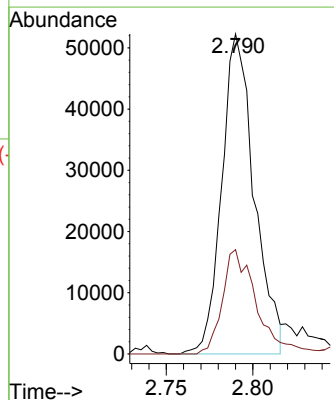
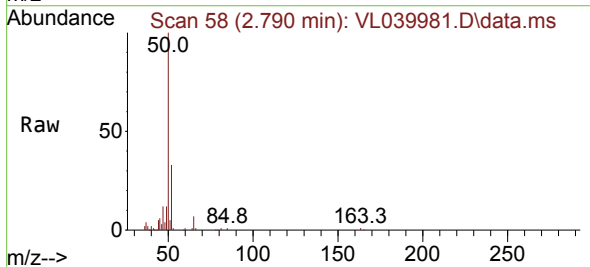
Instrument :
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ClientSampleId :
IA-4

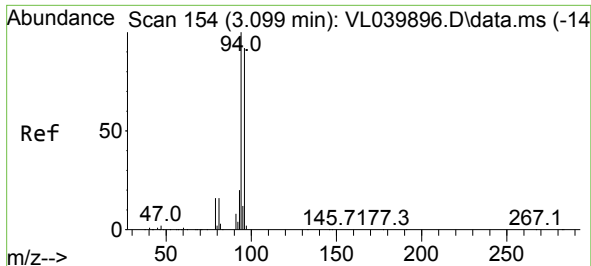
Tgt Ion: 51 Resp: 73311
Ion Ratio Lower Upper
51 100
67 16.9 14.2 21.4



#4
Chloromethane
Concen: 0.701 ppbv
RT: 2.790 min Scan# 58
Delta R.T. 0.010 min
Lab File: VL039981.D
Acq: 12 Dec 2022 18:27

Tgt Ion: 50 Resp: 68252
Ion Ratio Lower Upper
50 100
52 32.6 27.8 41.8

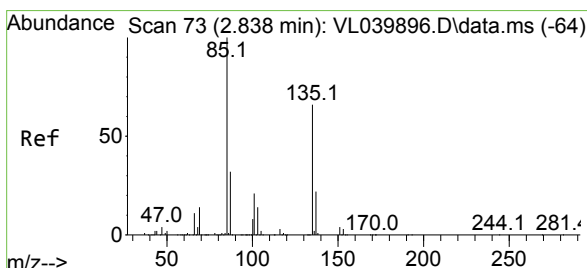
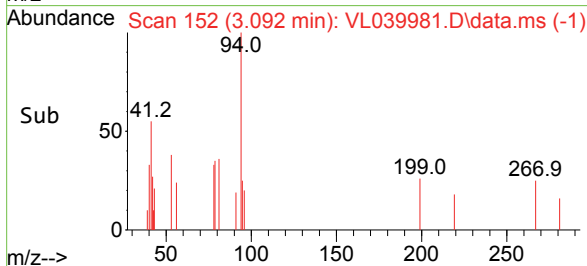
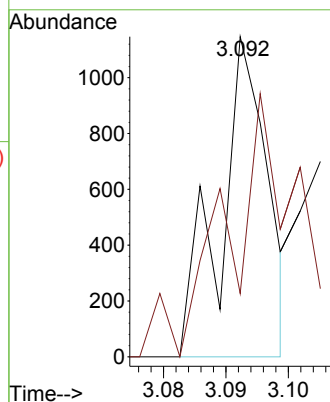
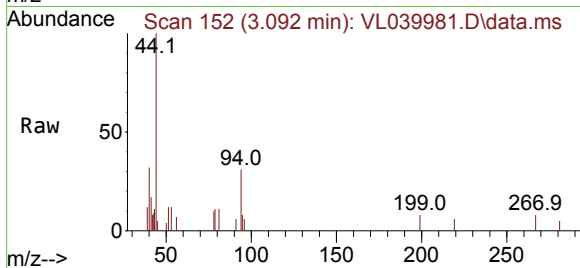




#6
Bromomethane
Concen: 0.023 ppbv
RT: 3.092 min Scan# 11
Delta R.T. 0.007 min
Lab File: VL039981.D
Acq: 12 Dec 2022 18:27

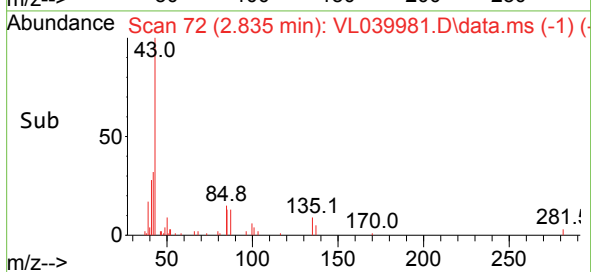
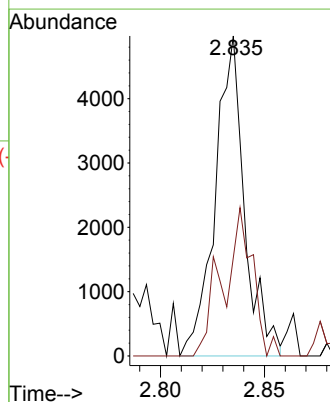
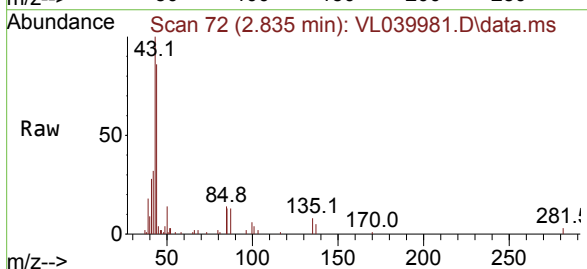
Instrument :
MSVOA_L
ClientSampleId :
IA-4

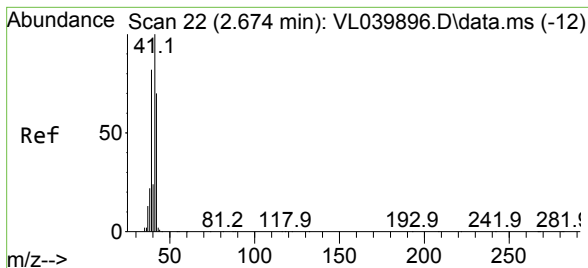
Tgt Ion: 94 Resp: 606
Ion Ratio Lower Upper
94 100
96 15.8 73.7 110.5#



#8
Dichlorotetrafluoroethane
Concen: 0.027 ppbv
RT: 2.835 min Scan# 72
Delta R.T. 0.010 min
Lab File: VL039981.D
Acq: 12 Dec 2022 18:27

Tgt Ion: 85 Resp: 4907
Ion Ratio Lower Upper
85 100
135 46.5 54.1 81.1#





#9

Propene

Concen: 1.559 ppbv

RT: 2.677 min Scan# 21

Delta R.T. 0.016 min

Lab File: VL039981.D

Acq: 12 Dec 2022 18:27

Instrument :

MSVOA_L

ClientSampleId :

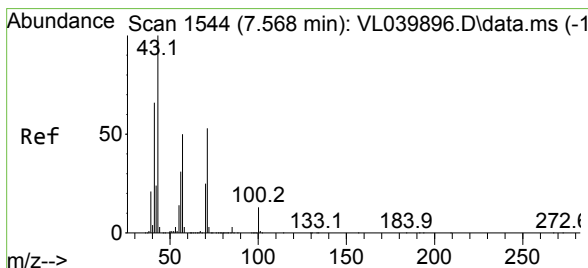
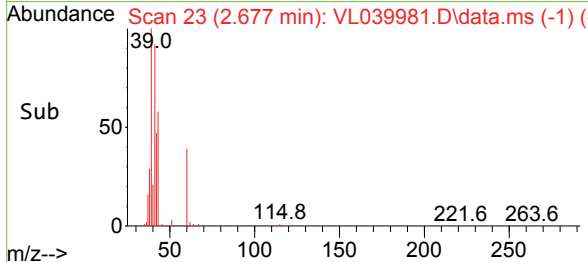
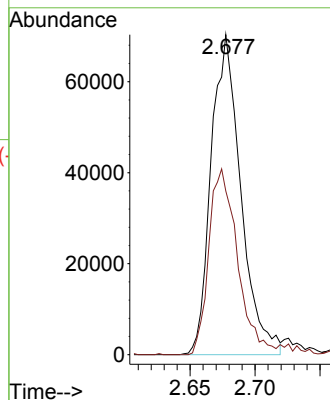
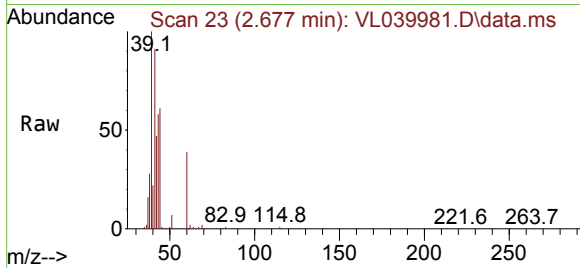
IA-4

Tgt Ion: 41 Resp: 111835

Ion Ratio Lower Upper

41 100

42 58.8 55.8 83.6



#10

Heptane

Concen: 0.025 ppbv

RT: 7.571 min Scan# 1545

Delta R.T. 0.026 min

Lab File: VL039981.D

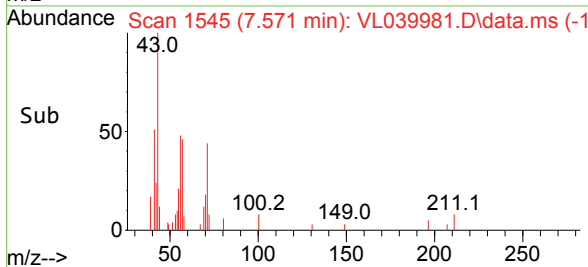
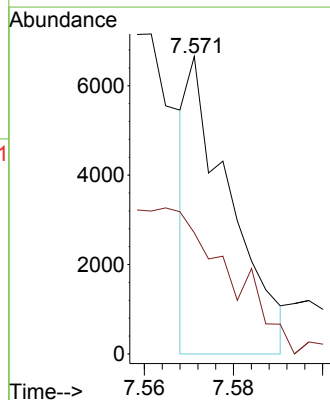
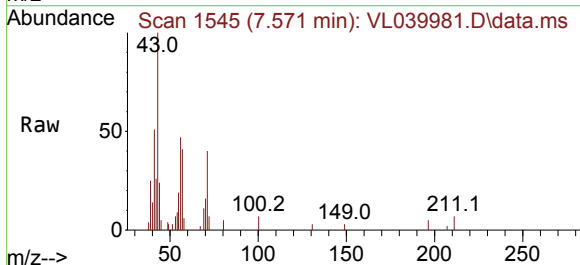
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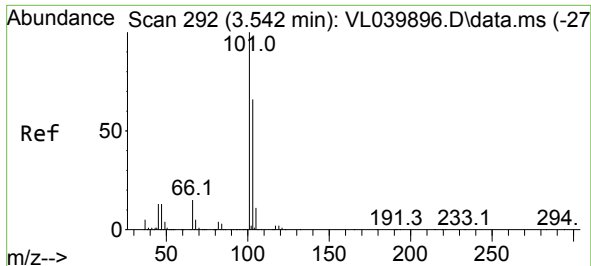
Tgt Ion: 43 Resp: 4355

Ion Ratio Lower Upper

43 100

57 0.0 40.7 61.1#

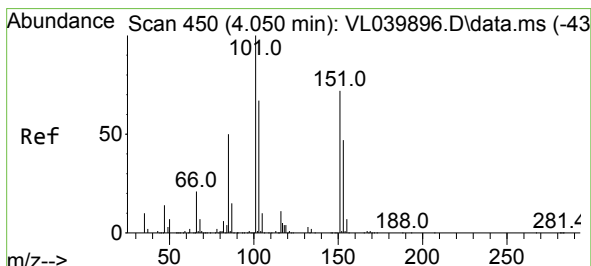
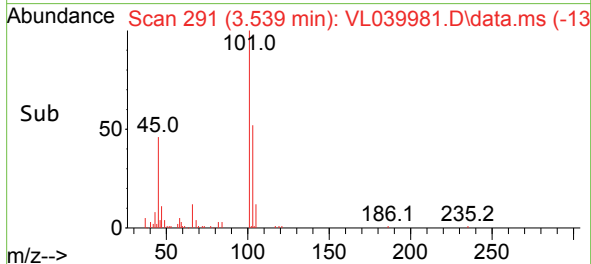
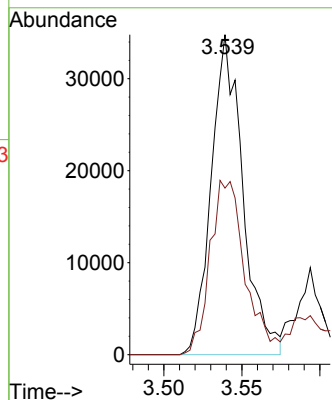
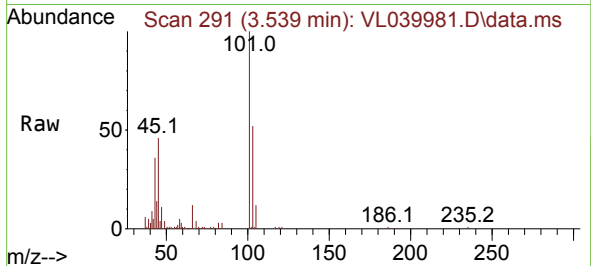




#11
 Trichlorofluoromethane
 Concen: 0.254 ppbv
 RT: 3.539 min Scan# 292
 Delta R.T. 0.010 min
 Lab File: VL039981.D
 Acq: 12 Dec 2022 18:27

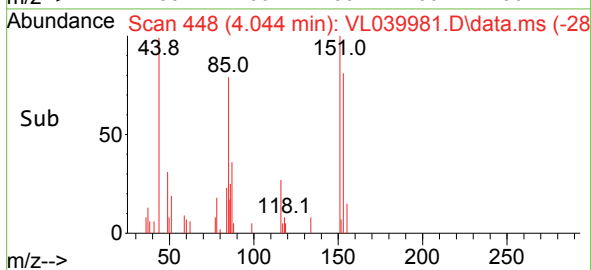
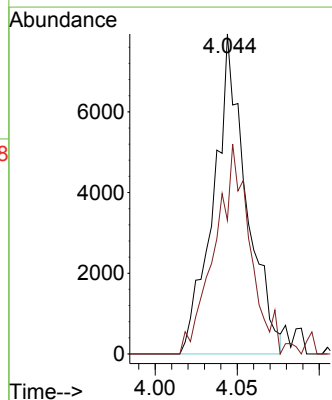
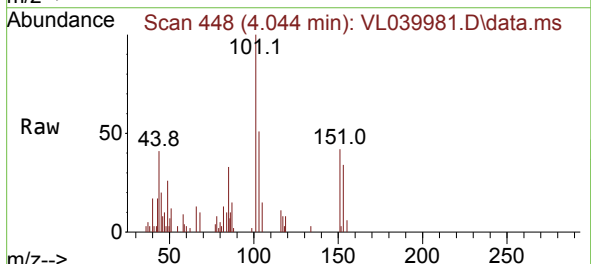
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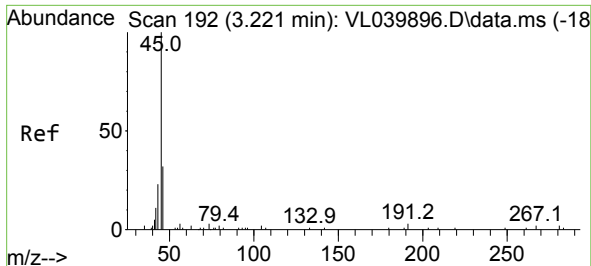
Tgt Ion:101 Resp: 48989
 Ion Ratio Lower Upper
 101 100
 103 52.1 52.6 78.8#



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.076 ppbv
 RT: 4.044 min Scan# 448
 Delta R.T. 0.013 min
 Lab File: VL039981.D
 Acq: 12 Dec 2022 18:27

Tgt Ion:101 Resp: 11072
 Ion Ratio Lower Upper
 101 100
 151 71.9 59.6 89.4

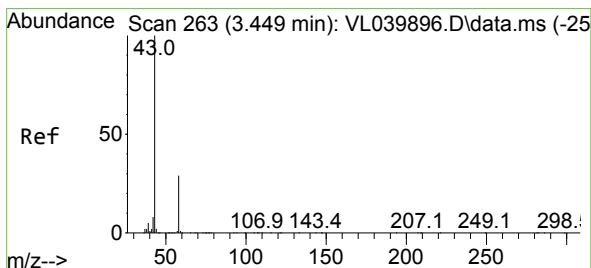
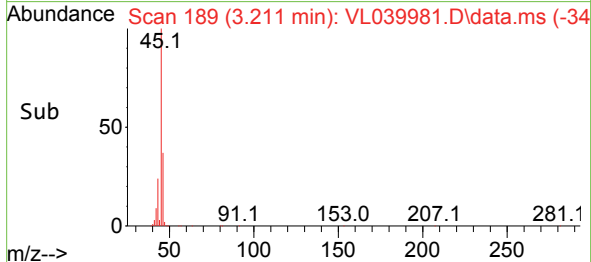
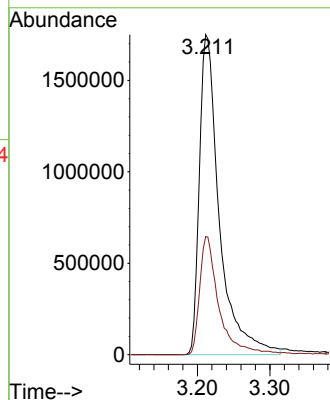
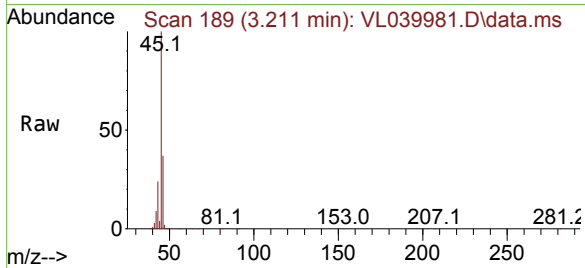




#13
Ethanol
Concen: 611.880 ppbv
RT: 3.211 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL039981.D
Acq: 12 Dec 2022 18:27

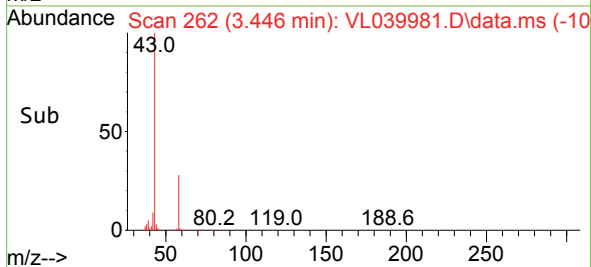
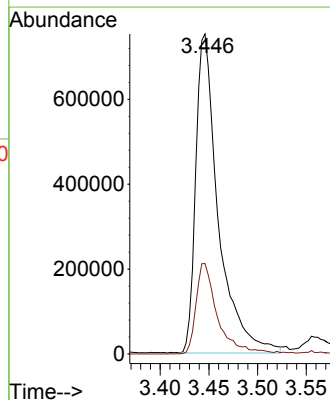
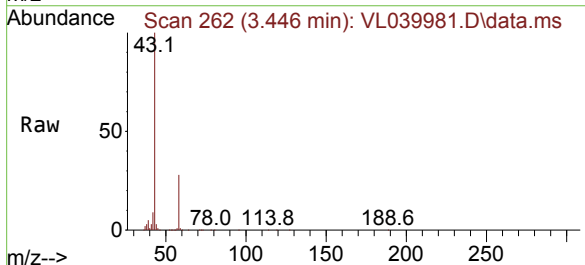
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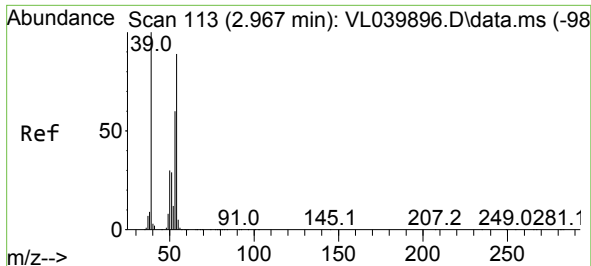
Tgt Ion: 45 Resp: 3351495
Ion Ratio Lower Upper
45 100
46 36.0 14.6 58.2



#15
Acetone
Concen: 8.272 ppbv
RT: 3.446 min Scan# 262
Delta R.T. 0.013 min
Lab File: VL039981.D
Acq: 12 Dec 2022 18:27

Tgt Ion: 43 Resp: 1211001
Ion Ratio Lower Upper
43 100
58 27.3 22.9 34.3

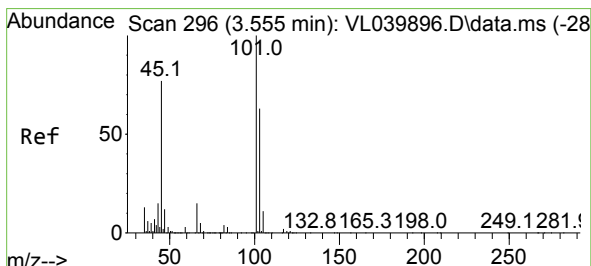
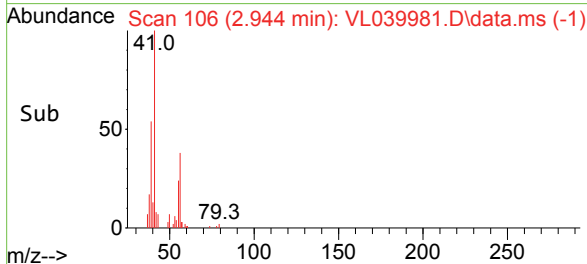
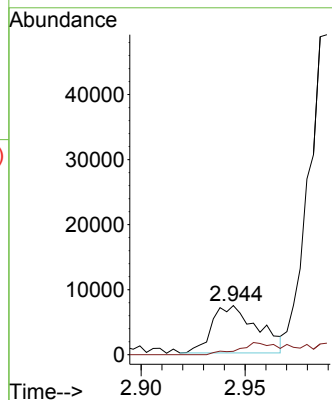
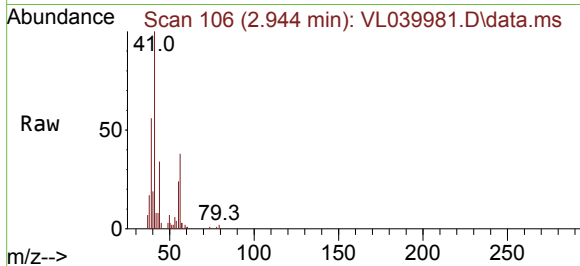




#16
1,3-Butadiene
Concen: 0.151 ppbv
RT: 2.944 min Scan# 110
Delta R.T. -0.006 min
Lab File: VL039981.D
Acq: 12 Dec 2022 18:27

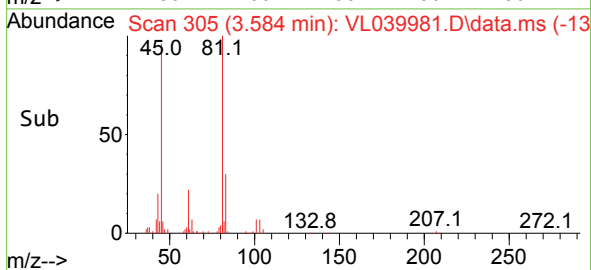
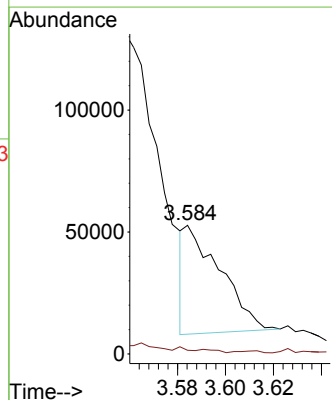
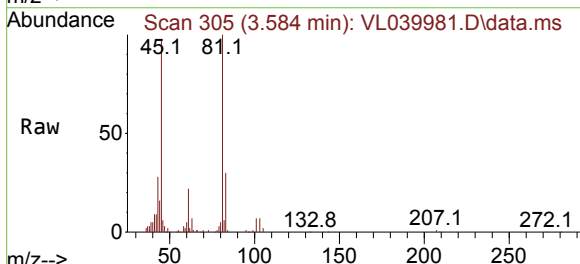
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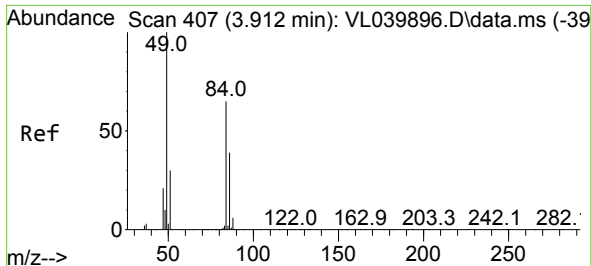
Tgt Ion: 39 Resp: 11013
Ion Ratio Lower Upper
39 100
54 41.7 66.6 99.8#



#19
Isopropyl Alcohol
Concen: 0.582 ppbv
RT: 3.584 min Scan# 305
Delta R.T. 0.042 min
Lab File: VL039981.D
Acq: 12 Dec 2022 18:27

Tgt Ion: 45 Resp: 46133
Ion Ratio Lower Upper
45 100
58 0.0 38.7 58.1#





#20

Methylene Chloride

Concen: 3.430 ppbv

RT: 3.912 min Scan# 407

Delta R.T. 0.016 min

Lab File: VL039981.D

Acq: 12 Dec 2022 18:27

Instrument :

MSVOA_L

ClientSampleId :

IA-4

Tgt Ion: 84 Resp: 243288

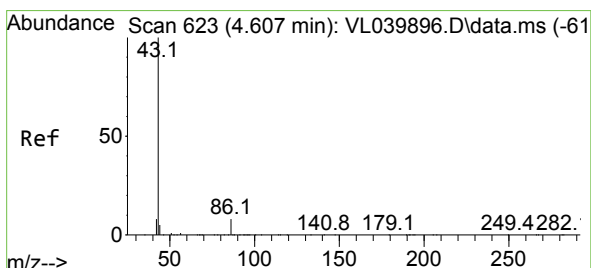
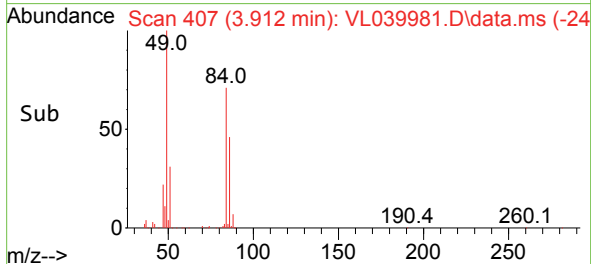
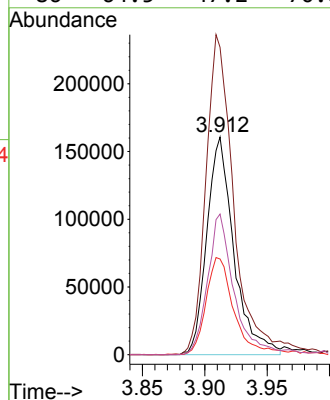
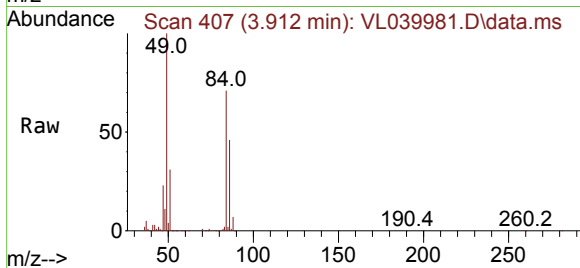
Ion Ratio Lower Upper

84 100

49 141.1 122.2 183.4

51 43.8 36.3 54.5

86 64.5 47.2 70.8



#23

Vinyl Acetate

Concen: 0.392 ppbv

RT: 4.600 min Scan# 621

Delta R.T. 0.007 min

Lab File: VL039981.D

Acq: 12 Dec 2022 18:27

Tgt Ion: 43 Resp: 23567

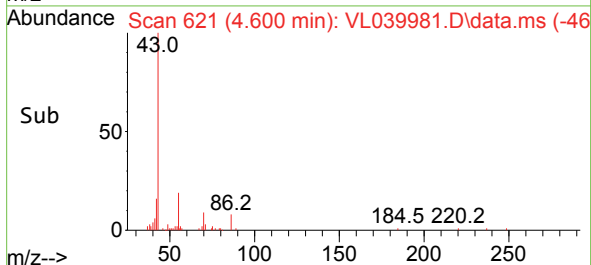
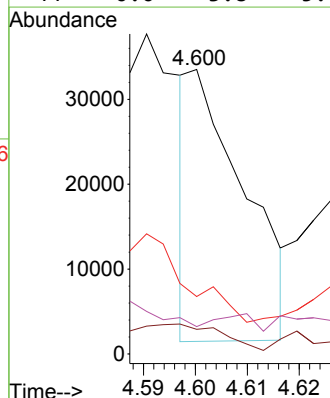
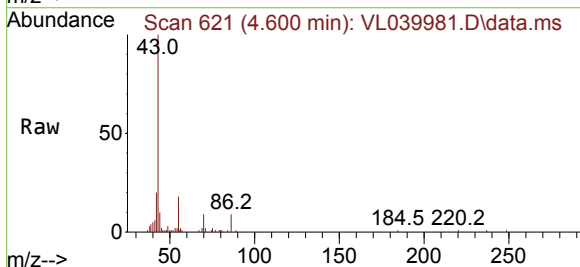
Ion Ratio Lower Upper

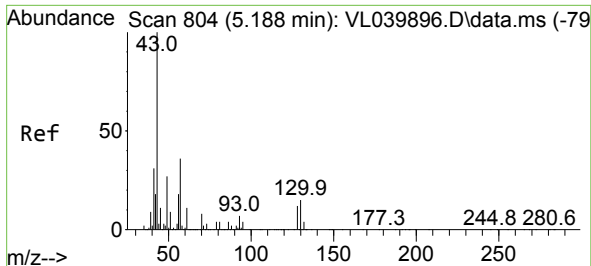
43 100

86 5.6 5.0 7.4

42 11.2 7.6 11.4

44 0.0 3.8 5.6#

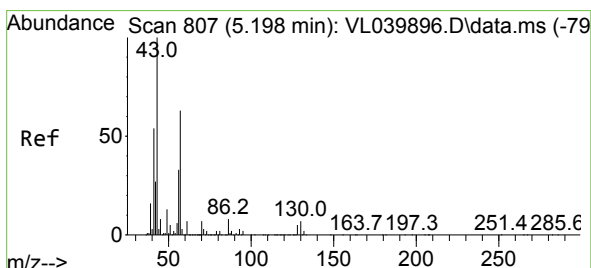
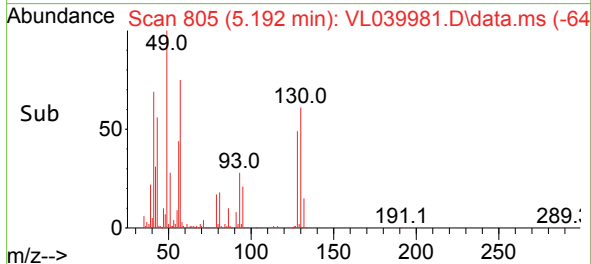
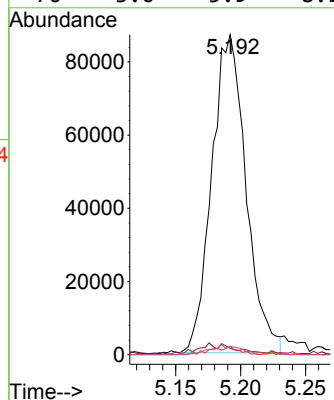
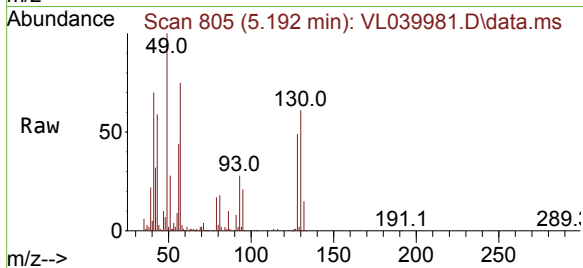




#25
Ethyl Acetate
Concen: 0.592 ppbv
RT: 5.192 min Scan# 805
Delta R.T. 0.023 min
Lab File: VL039981.D
Acq: 12 Dec 2022 18:27

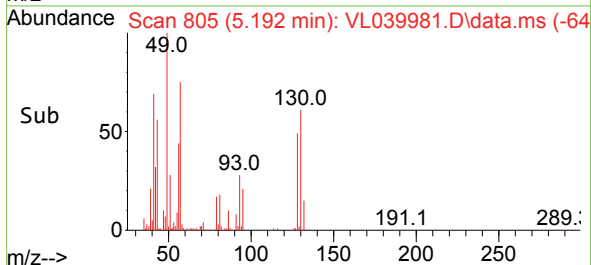
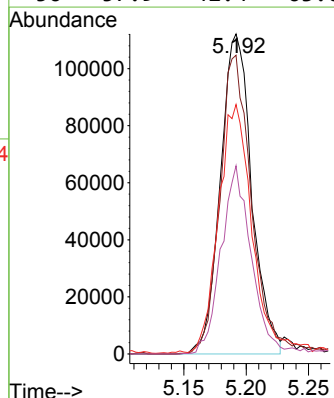
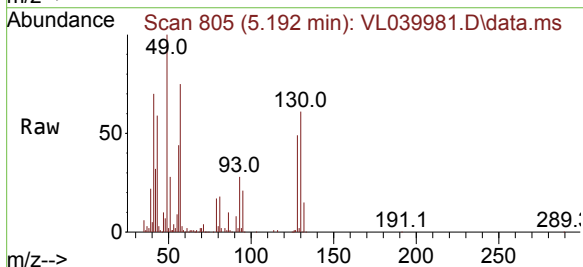
Instrument :
MSVOA_L
ClientSampleId :
IA-4

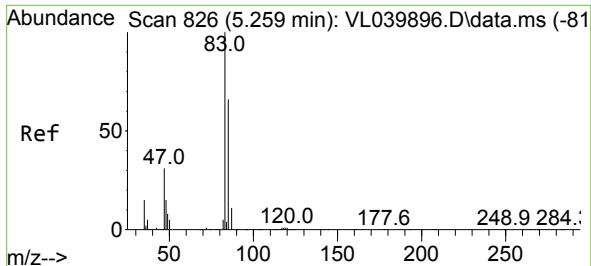
Tgt Ion: 43	Resp: 159184
Ion Ratio	Lower Upper
43 100	
45 3.9	8.4 12.6#
61 2.1	8.5 12.7#
70 3.0	5.9 8.9#



#26
Hexane
Concen: 1.673 ppbv
RT: 5.192 min Scan# 805
Delta R.T. 0.016 min
Lab File: VL039981.D
Acq: 12 Dec 2022 18:27

Tgt Ion: 57	Resp: 196419
Ion Ratio	Lower Upper
57 100	
41 97.1	72.3 108.5
43 85.8	188.7 283.1#
56 57.9	42.4 63.6





#29

Chloroform

Concen: 0.058 ppbv

RT: 5.247 min Scan# 81

Delta R.T. 0.010 min

Lab File: VL039981.D

Acq: 12 Dec 2022 18:27

Instrument :

MSVOA_L

ClientSampleId :

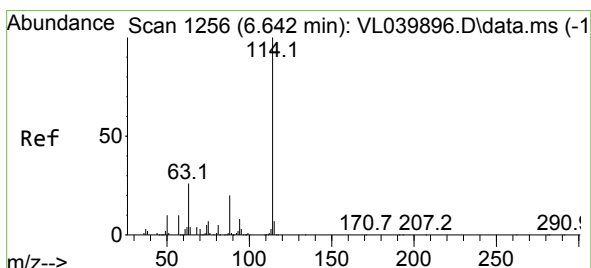
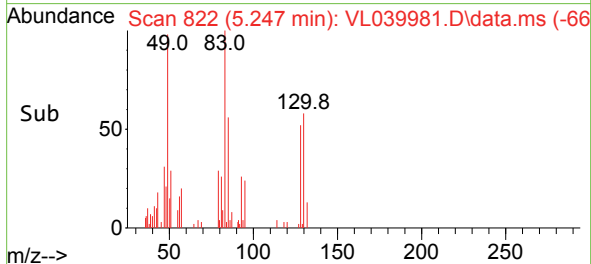
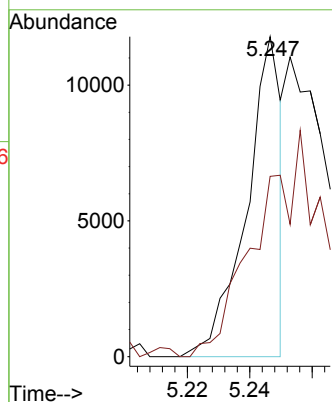
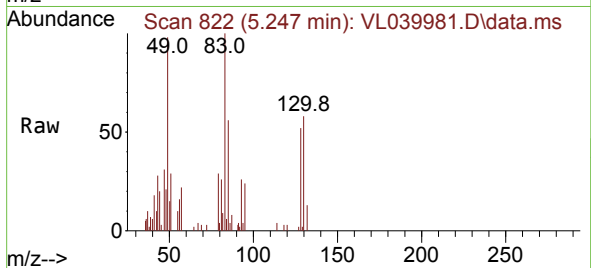
IA-4

Tgt Ion: 83 Resp: 9103

Ion Ratio Lower Upper

83 100

85 56.4 52.4 78.6



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.632 min Scan# 1253

Delta R.T. 0.013 min

Lab File: VL039981.D

Acq: 12 Dec 2022 18:27

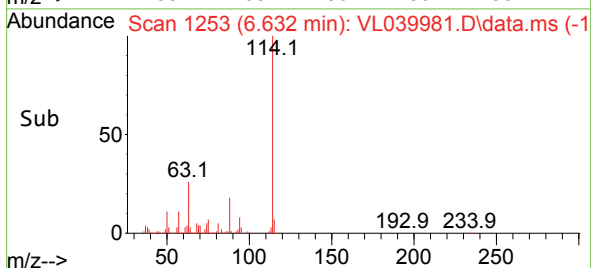
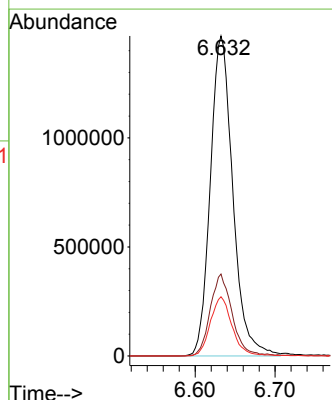
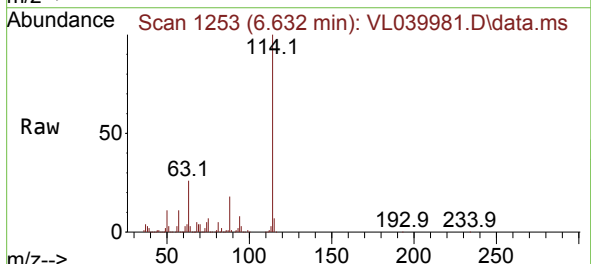
Tgt Ion: 114 Resp: 2868111

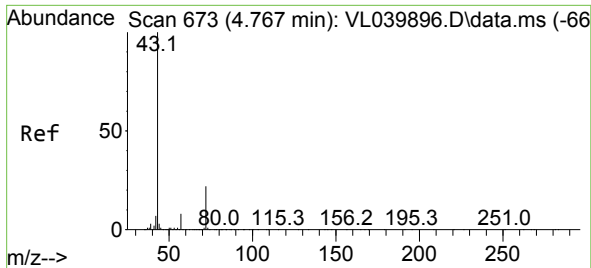
Ion Ratio Lower Upper

114 100

63 25.3 21.4 32.0

88 18.0 15.3 22.9

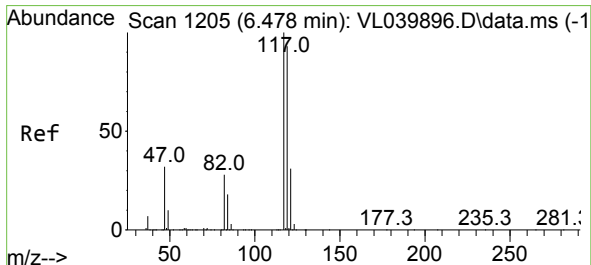
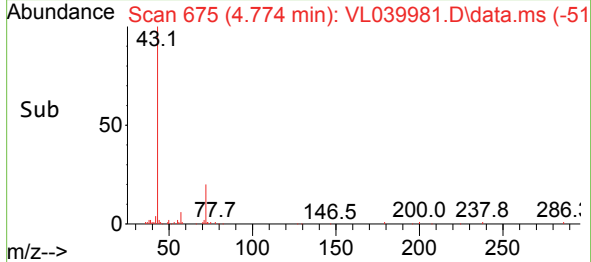
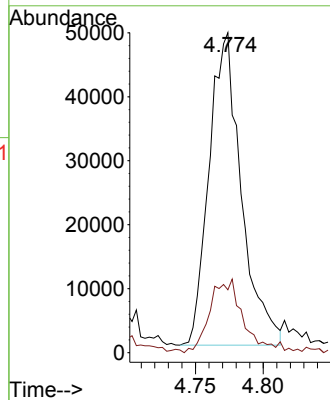
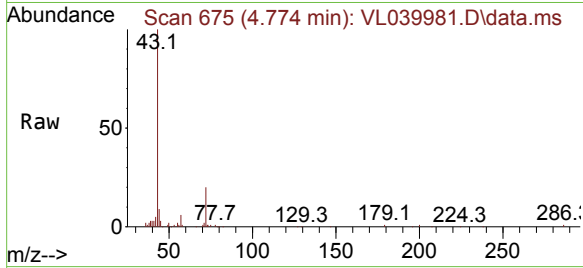




#34
2-Butanone
Concen: 0.588 ppbv
RT: 4.774 min Scan# 61
Delta R.T. 0.023 min
Lab File: VL039981.D
Acq: 12 Dec 2022 18:27

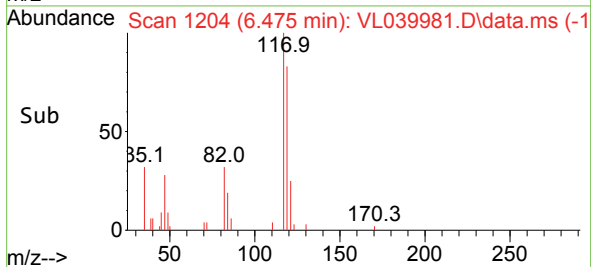
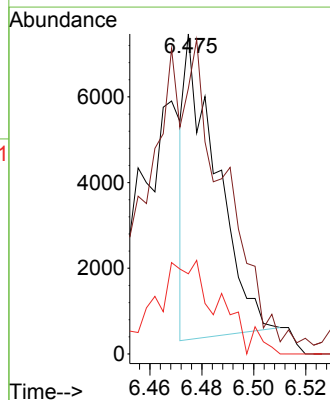
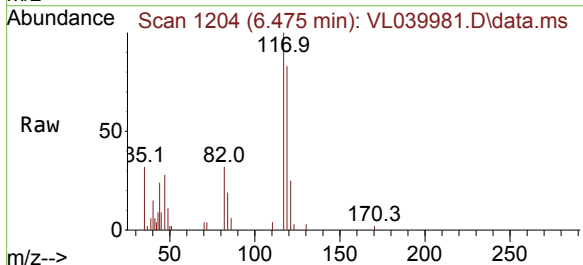
Instrument :
MSVOA_L
ClientSampleId :
IA-4

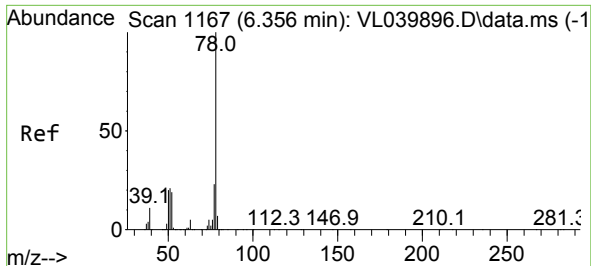
Tgt Ion: 43 Resp: 80667
Ion Ratio Lower Upper
43 100
72 24.8 17.4 26.2



#35
Carbon Tetrachloride
Concen: 0.037 ppbv
RT: 6.475 min Scan# 1204
Delta R.T. 0.019 min
Lab File: VL039981.D
Acq: 12 Dec 2022 18:27

Tgt Ion: 117 Resp: 5961
Ion Ratio Lower Upper
117 100
119 86.3 74.7 112.1
121 27.3 24.5 36.7

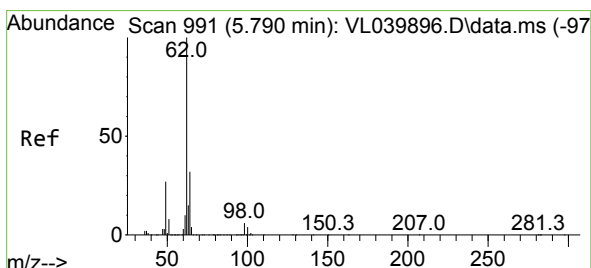
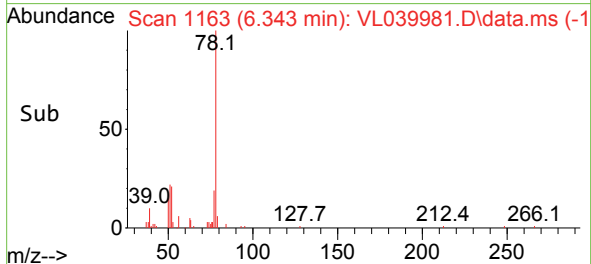
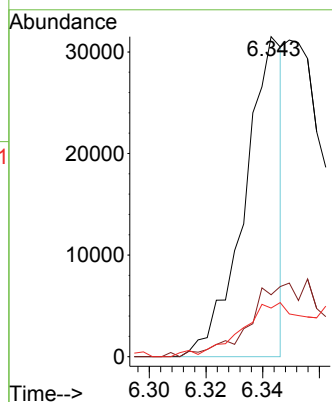
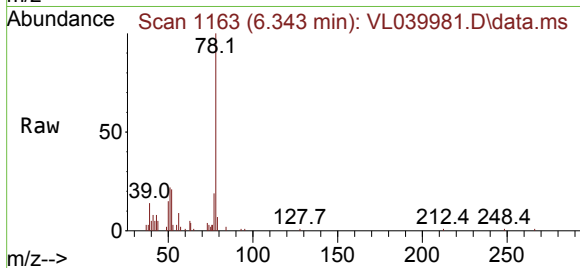




#36
Benzene
Concen: 0.120 ppbv
RT: 6.343 min Scan# 1163
Delta R.T. 0.010 min
Lab File: VL039981.D
Acq: 12 Dec 2022 18:27

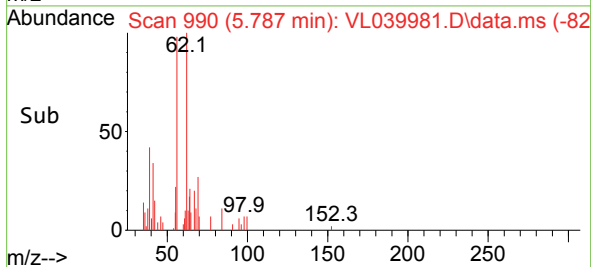
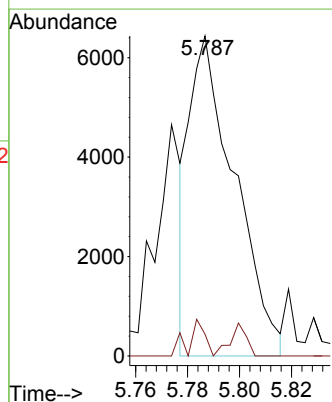
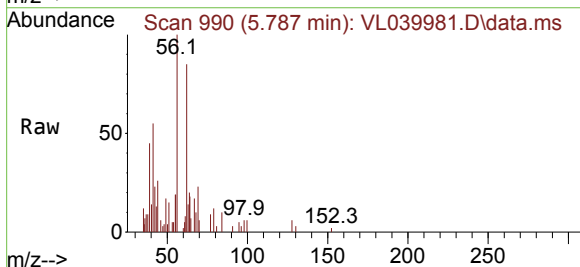
Instrument :
MSVOA_L
ClientSampleId :
IA-4

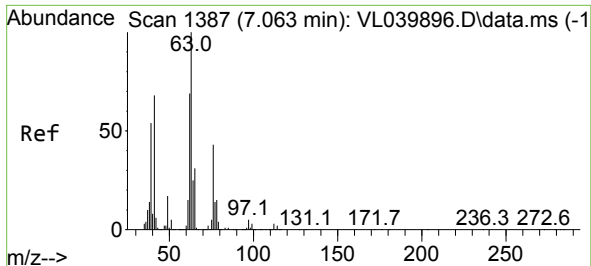
Tgt Ion: 78 Resp: 29190
Ion Ratio Lower Upper
78 100
77 19.3 18.2 27.2
50 11.4 15.8 23.8#



#37
1,2-Dichloroethane
Concen: 0.058 ppbv
RT: 5.787 min Scan# 990
Delta R.T. 0.019 min
Lab File: VL039981.D
Acq: 12 Dec 2022 18:27

Tgt Ion: 62 Resp: 7815
Ion Ratio Lower Upper
62 100
98 6.5 5.0 7.6

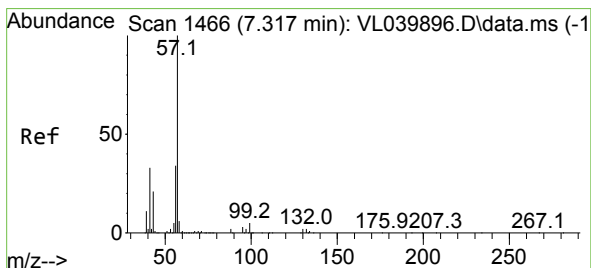
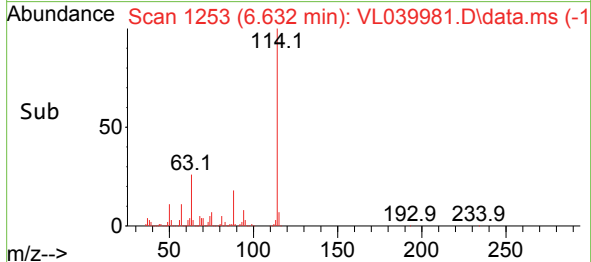
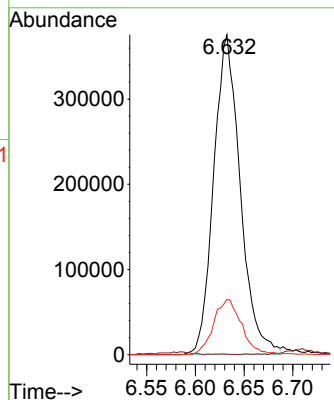
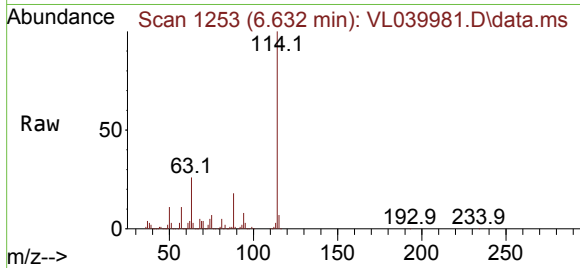




#39
 1,2-Dichloropropane
 Concen: 7.491 ppbv
 RT: 6.632 min Scan# 11
 Delta R.T. -0.402 min
 Lab File: VL039981.D
 Acq: 12 Dec 2022 18:27

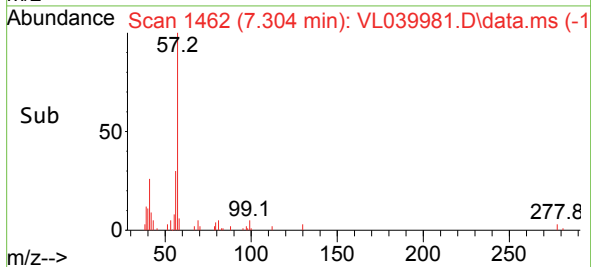
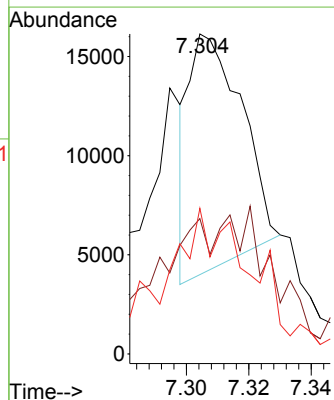
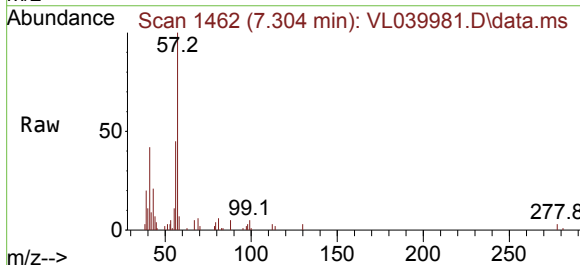
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-4

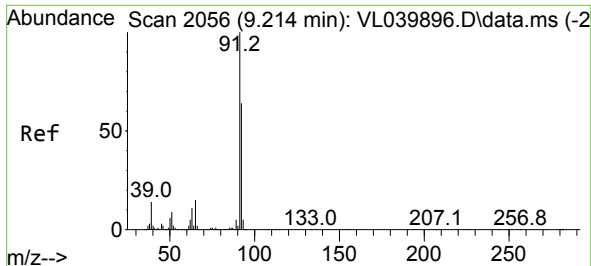
Tgt Ion: 63 Resp: 711509
 Ion Ratio Lower Upper
 63 100
 41 0.0 54.7 82.1#
 62 17.2 55.0 82.6#



#44
 2,2,4-Trimethylpentane
 Concen: 0.034 ppbv
 RT: 7.304 min Scan# 1462
 Delta R.T. 0.013 min
 Lab File: VL039981.D
 Acq: 12 Dec 2022 18:27

Tgt Ion: 57 Resp: 13955
 Ion Ratio Lower Upper
 57 100
 41 161.6 26.2 39.2#
 56 125.0 25.5 38.3#

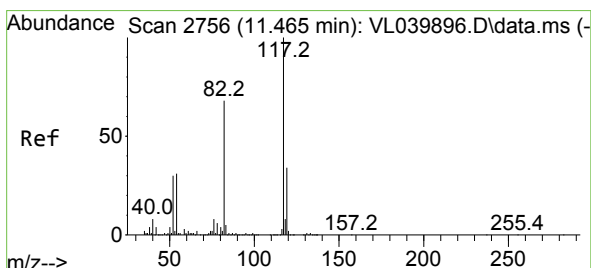
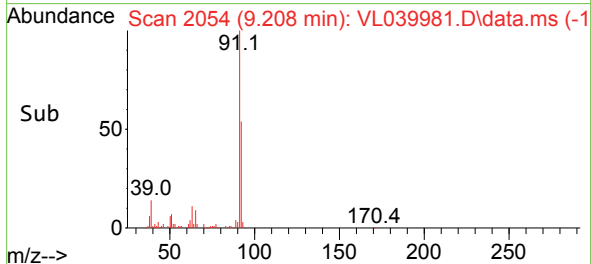
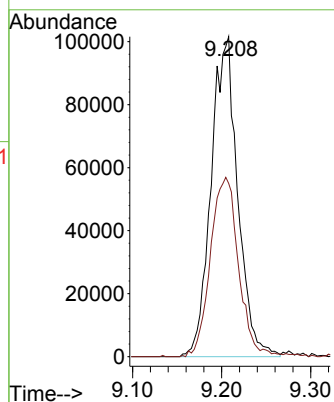
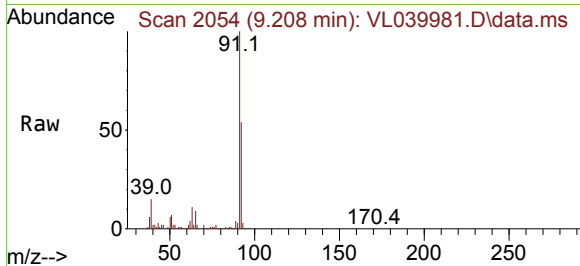




#53
Toluene
Concen: 0.759 ppbv
RT: 9.208 min Scan# 2056
Delta R.T. 0.023 min
Lab File: VL039981.D
Acq: 12 Dec 2022 18:27

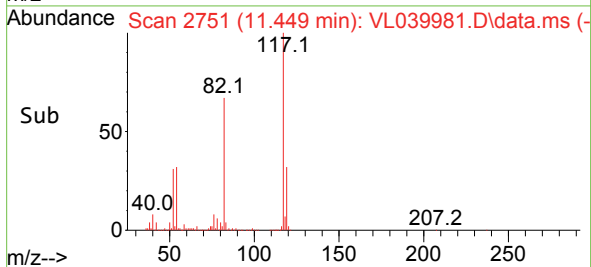
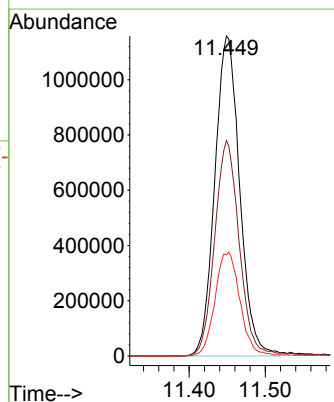
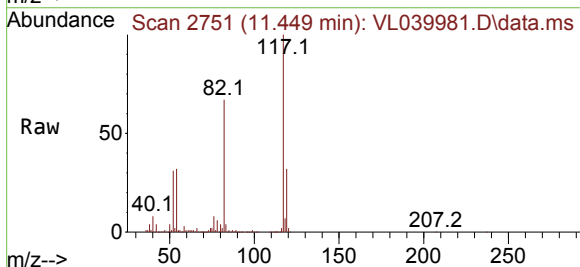
Instrument :
MSVOA_L
ClientSampleId :
IA-4

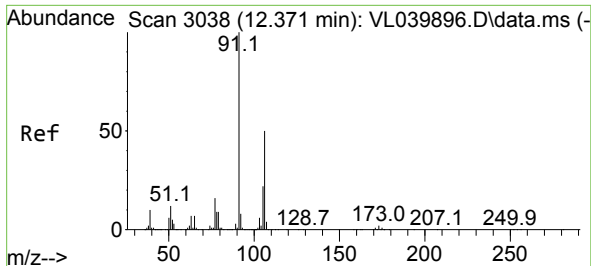
Tgt Ion: 91 Resp: 210734
Ion Ratio Lower Upper
91 100
92 59.6 49.8 74.6



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.449 min Scan# 2751
Delta R.T. 0.016 min
Lab File: VL039981.D
Acq: 12 Dec 2022 18:27

Tgt Ion: 117 Resp: 2631422
Ion Ratio Lower Upper
117 100
82 67.3 52.3 78.5
119 32.8 25.7 38.5





#59

m/p-Xylene

Concen: 0.072 ppbv

RT: 12.349 min Scan# 3038

Delta R.T. 0.010 min

Lab File: VL039981.D

Acq: 12 Dec 2022 18:27

Instrument :

MSVOA_L

ClientSampleId :

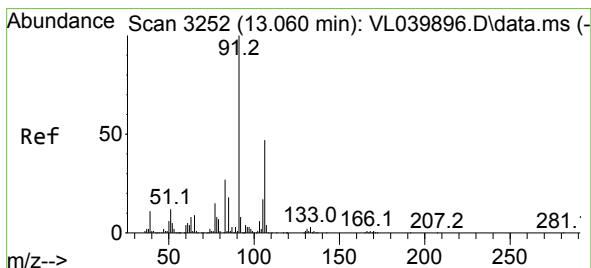
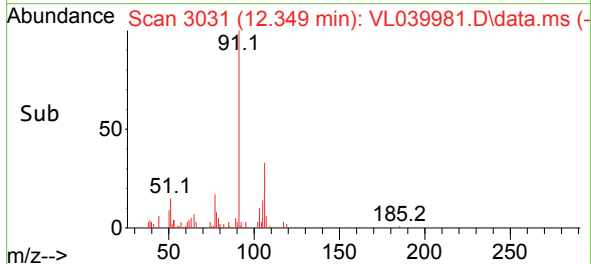
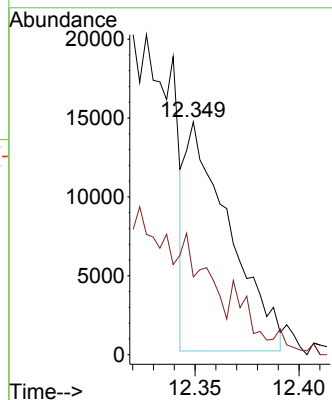
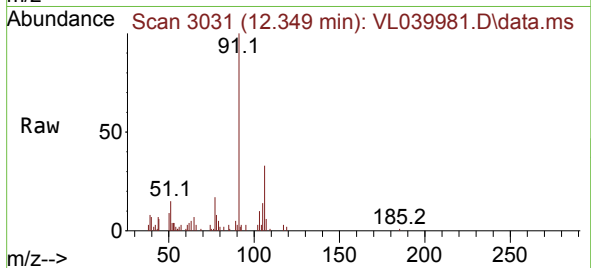
IA-4

Tgt Ion: 91 Resp: 21370

Ion Ratio Lower Upper

91 100

106 0.0 37.0 55.6#



#60

o-Xylene

Concen: 0.056 ppbv

RT: 13.040 min Scan# 3246

Delta R.T. 0.013 min

Lab File: VL039981.D

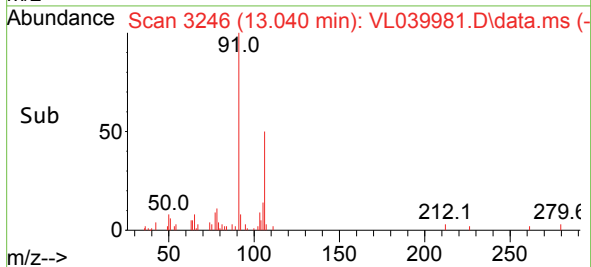
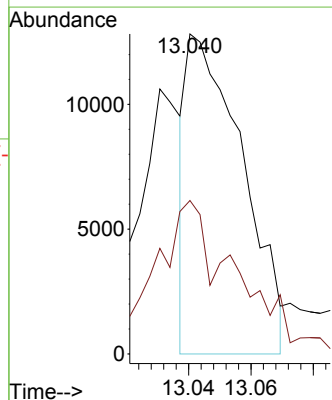
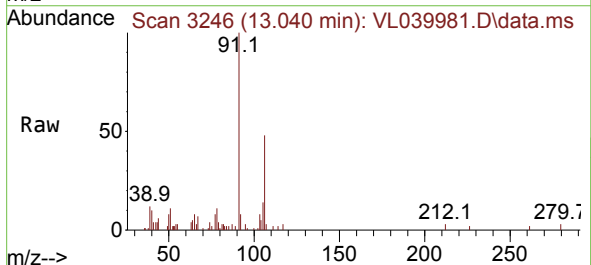
Acq: 12 Dec 2022 18:27

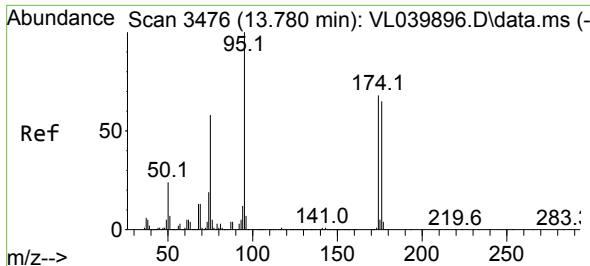
Tgt Ion: 91 Resp: 15899

Ion Ratio Lower Upper

91 100

106 76.9 23.2 69.6#

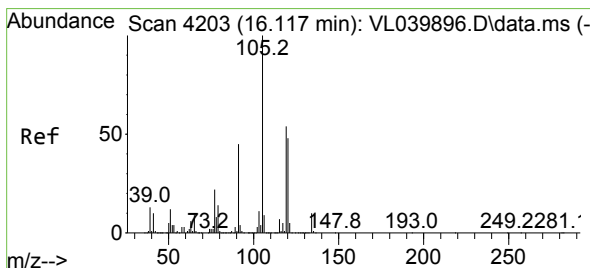
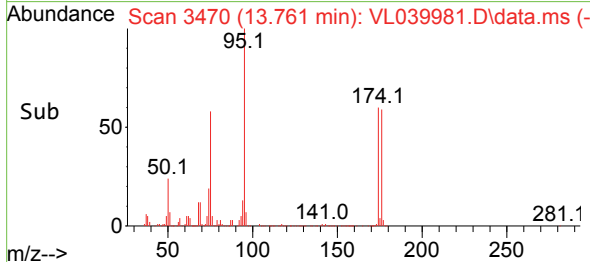
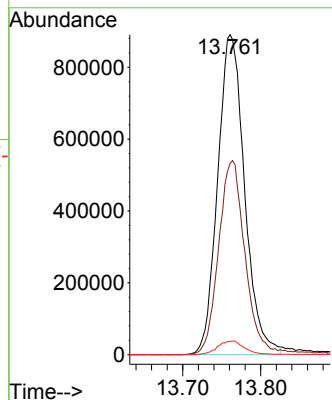
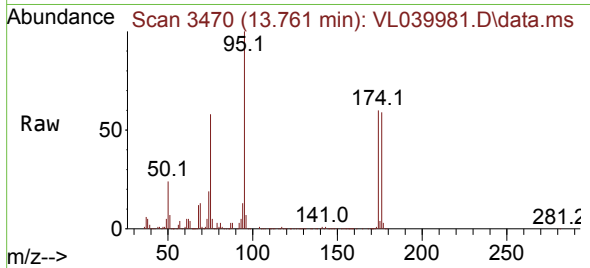




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.636 ppbv
 RT: 13.761 min Scan# 3476
 Delta R.T. 0.020 min
 Lab File: VL039981.D
 Acq: 12 Dec 2022 18:27

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-4

Tgt Ion: 95 Resp: 2137650
 Ion Ratio Lower Upper
 95 100
 174 60.5 53.7 80.5
 175 4.4 4.0 6.0



#74
 1,2,4-Trimethylbenzene
 Concen: 0.041 ppbv
 RT: 16.101 min Scan# 4198
 Delta R.T. 0.026 min
 Lab File: VL039981.D
 Acq: 12 Dec 2022 18:27

Tgt Ion: 105 Resp: 12878
 Ion Ratio Lower Upper
 105 100
 120 16.8 38.7 58.1#
 91 14.6 36.4 54.6#
 77 8.2 17.4 26.0#

