

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121222\
 Data File : VL039980.D
 Acq On : 12 Dec 2022 17:46
 Operator : SY/MD
 Sample : N5969-06DL 5X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DL

Quant Time: Dec 13 06:12:25 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)

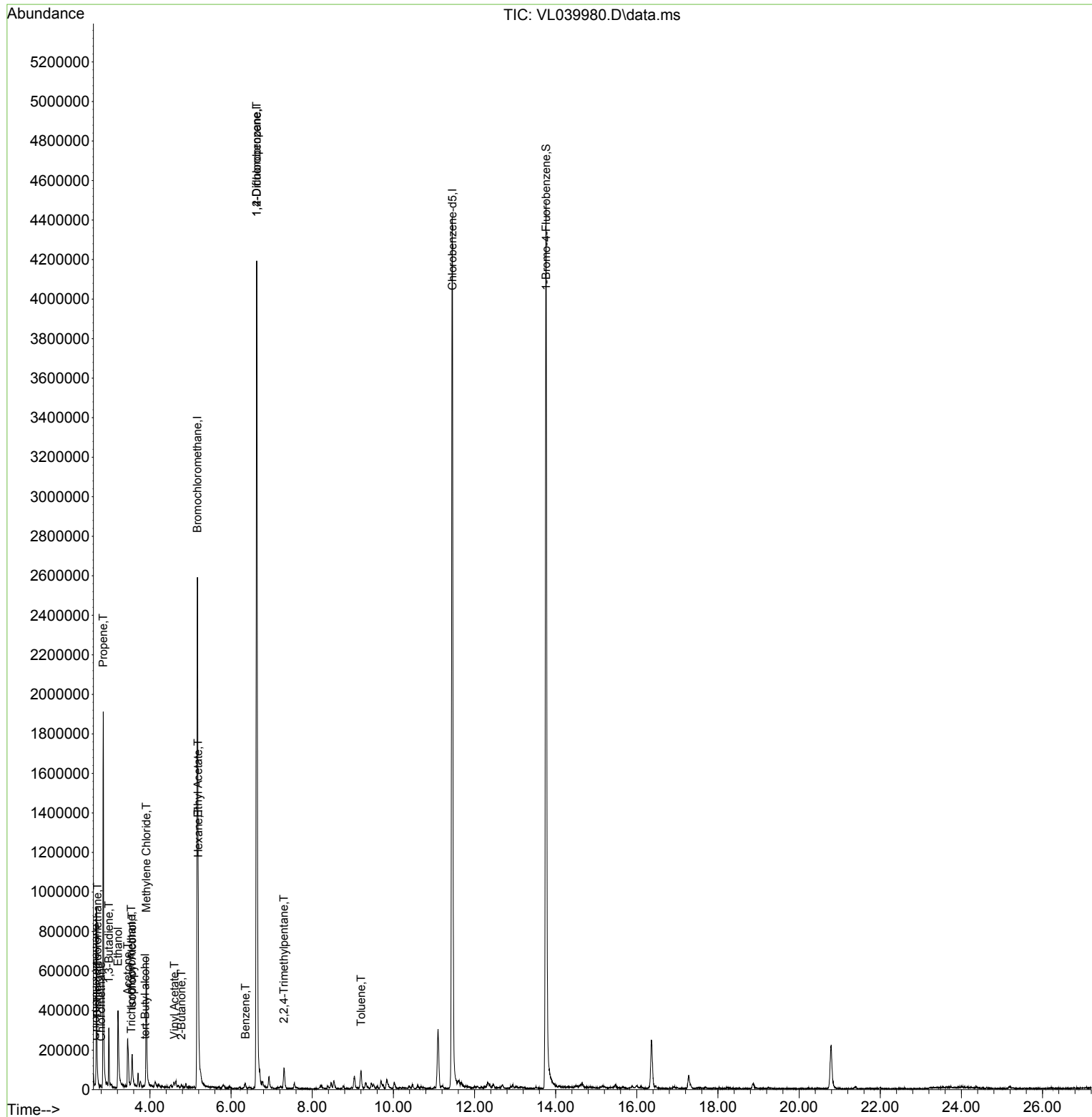
Internal Standards						
1) Bromochloromethane	5.169	49	1190345	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.632	114	3113181	10.000	ppbv	0.01
55) Chlorobenzene-d5	11.452	117	2840072	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.764	95	2335896	10.768	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	= 107.700%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.703	85	21662	0.127	ppbv	94
3) Chlorodifluoromethane	2.652	51	12294	0.075	ppbv	96
4) Chloromethane	2.796	50	9773	0.093	ppbv	95
9) Propene	2.848	41	519747	6.717	ppbv	96
11) Trichlorofluoromethane	3.539	101	16170	0.078	ppbv	86
13) Ethanol	3.214	45	422329	71.493	ppbv	97
15) Acetone	3.452	43	251784	1.595	ppbv	95
16) 1,3-Butadiene	2.989	39	34925	0.444	ppbv #	14
17) tert-Butyl alcohol	3.880	59	4195	0.023	ppbv #	72
19) Isopropyl Alcohol	3.562	45	179335	2.098	ppbv #	35
20) Methylene Chloride	3.912	84	200593	2.622	ppbv	95
23) Vinyl Acetate	4.603	43	8826	0.136	ppbv #	80
25) Ethyl Acetate	5.189	43	98216	0.339	ppbv #	85
26) Hexane	5.192	57	111300	0.879	ppbv #	45
34) 2-Butanone	4.774	43	9138	0.061	ppbv #	33
36) Benzene	6.353	78	12245	0.046	ppbv #	88
39) 1,2-Dichloropropane	6.632	63	773276	7.500	ppbv #	27
44) 2,2,4-Trimethylpentane	7.304	57	82424	0.187	ppbv #	85
53) Toluene	9.205	91	23992	0.080	ppbv #	69

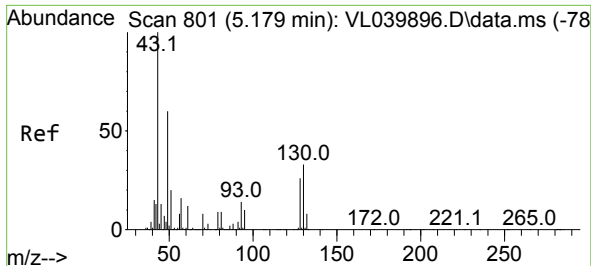
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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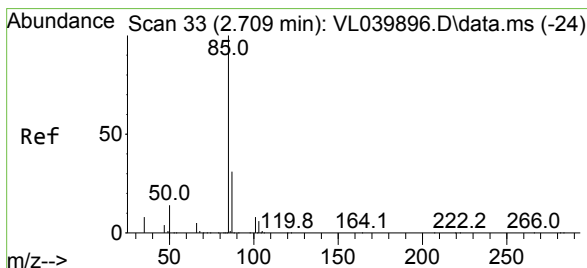
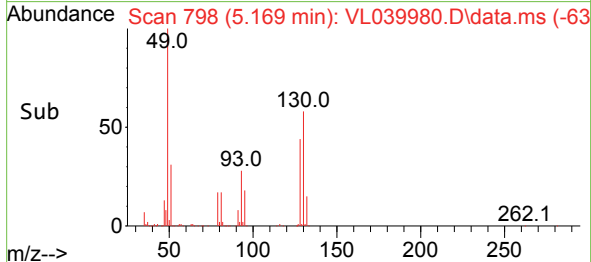
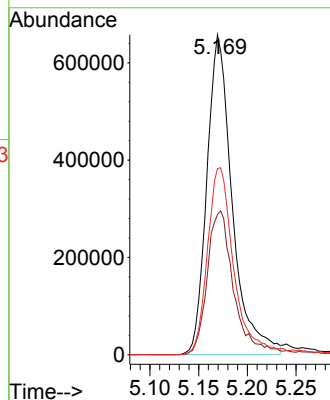
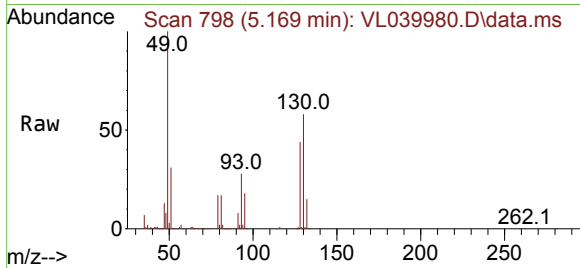




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.169 min Scan# 79
Delta R.T. 0.013 min
Lab File: VL039980.D
Acq: 12 Dec 2022 17:46

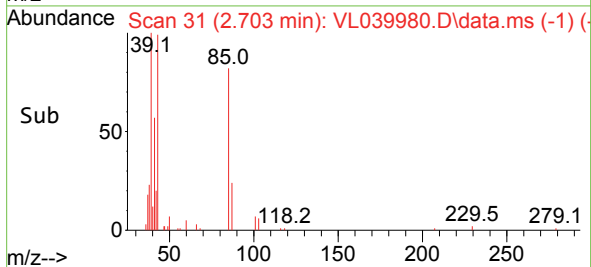
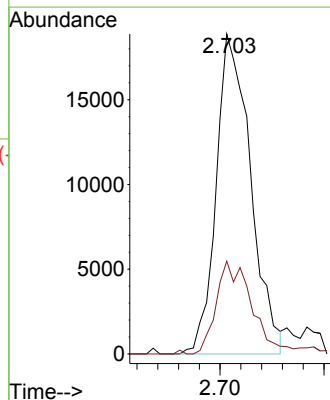
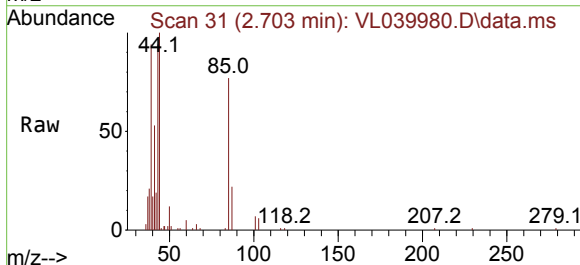
Instrument :
MSVOA_L
ClientSampleId :
IA-1DL

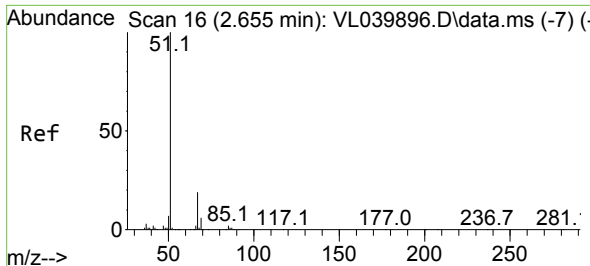
Tgt Ion: 49 Resp: 1190345
Ion Ratio Lower Upper
49 100
128 48.6 22.1 66.3
130 63.3 27.7 83.1



#2
Dichlorodifluoromethane
Concen: 0.127 ppbv
RT: 2.703 min Scan# 31
Delta R.T. 0.007 min
Lab File: VL039980.D
Acq: 12 Dec 2022 17:46

Tgt Ion: 85 Resp: 21662
Ion Ratio Lower Upper
85 100
87 27.8 25.0 37.4

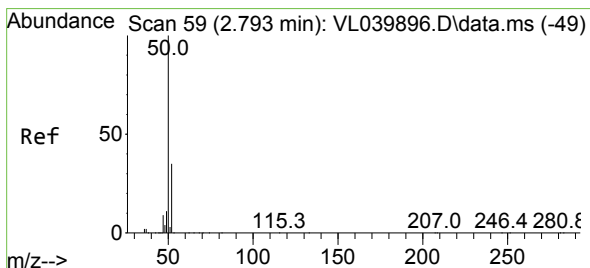
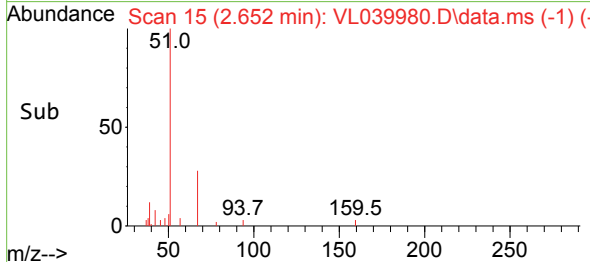
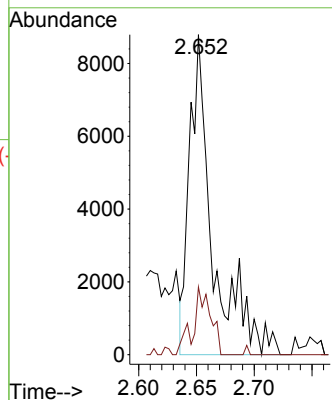
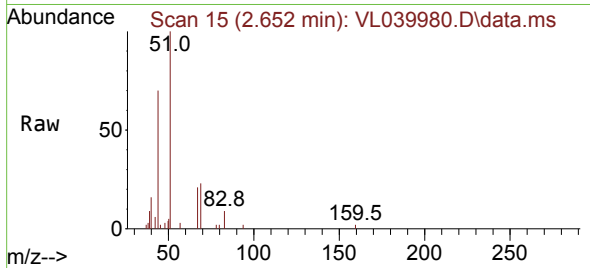




#3
Chlorodifluoromethane
Concen: 0.075 ppbv
RT: 2.652 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL039980.D
Acq: 12 Dec 2022 17:46

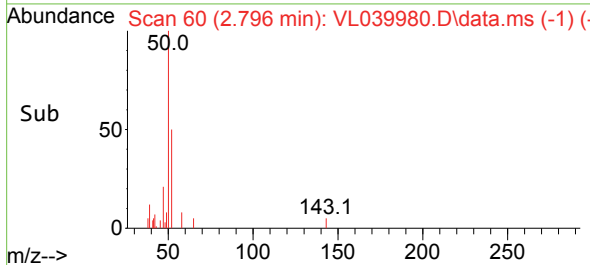
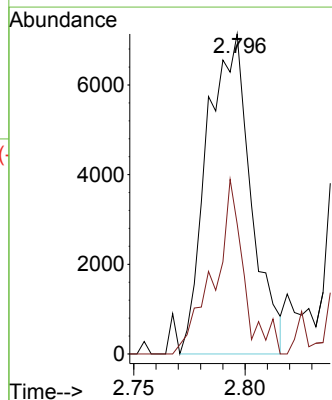
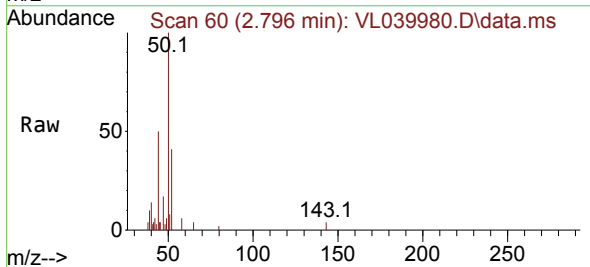
Instrument :
MSVOA_L
ClientSampleId :
IA-1DL

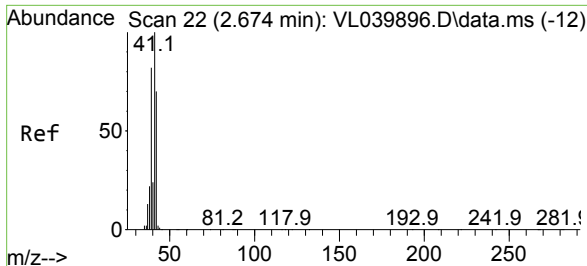
Tgt Ion: 51 Resp: 12294
Ion Ratio Lower Upper
51 100
67 16.0 14.2 21.4



#4
Chloromethane
Concen: 0.093 ppbv
RT: 2.796 min Scan# 60
Delta R.T. 0.016 min
Lab File: VL039980.D
Acq: 12 Dec 2022 17:46

Tgt Ion: 50 Resp: 9773
Ion Ratio Lower Upper
50 100
52 37.6 27.8 41.8

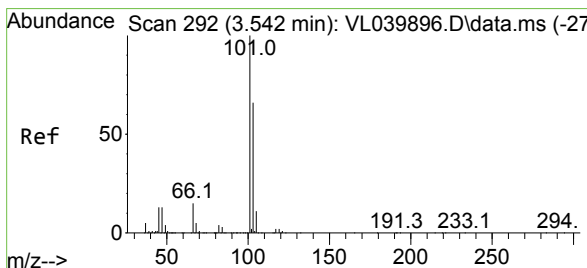
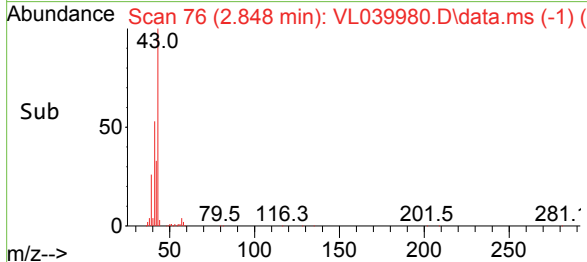
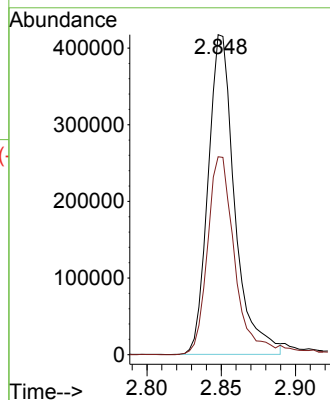
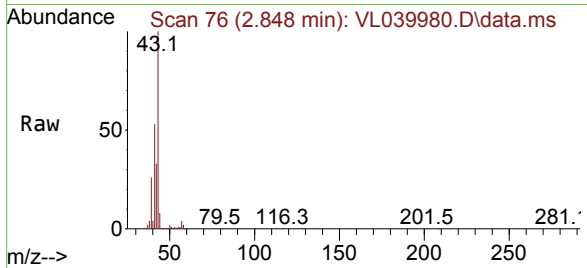




#9
Propene
Concen: 6.717 ppbv
RT: 2.848 min Scan# 70
Delta R.T. 0.187 min
Lab File: VL039980.D
Acq: 12 Dec 2022 17:46

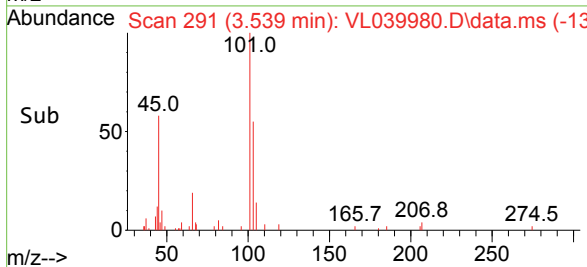
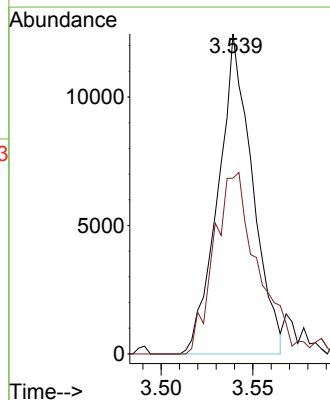
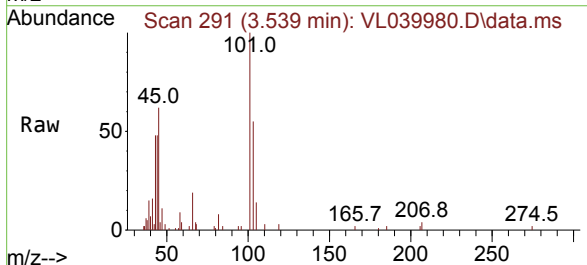
Instrument :
MSVOA_L
ClientSampleId :
IA-1DL

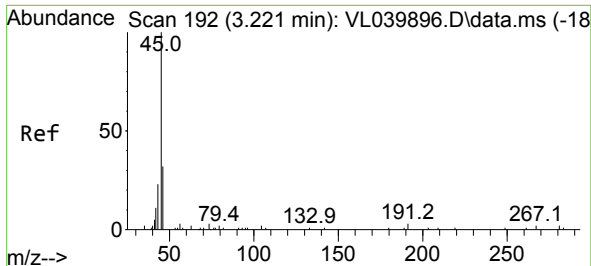
Tgt Ion: 41 Resp: 519747
Ion Ratio Lower Upper
41 100
42 66.0 55.8 83.6



#11
Trichlorofluoromethane
Concen: 0.078 ppbv
RT: 3.539 min Scan# 291
Delta R.T. 0.010 min
Lab File: VL039980.D
Acq: 12 Dec 2022 17:46

Tgt Ion: 101 Resp: 16170
Ion Ratio Lower Upper
101 100
103 55.0 52.6 78.8

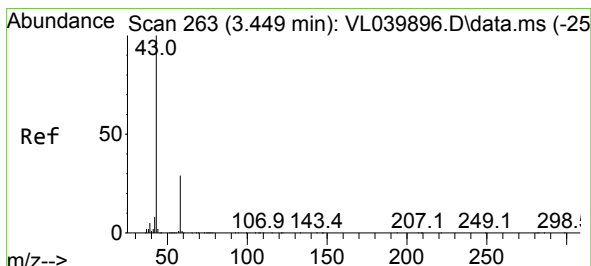
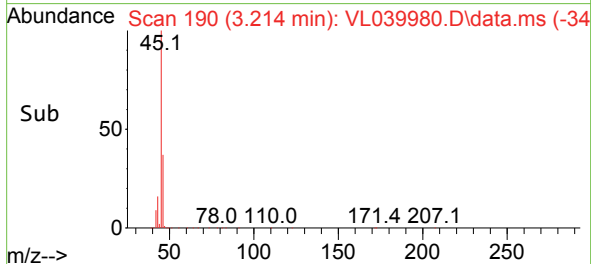
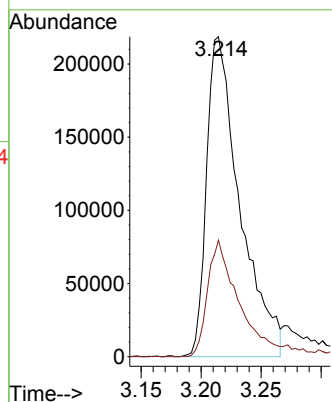
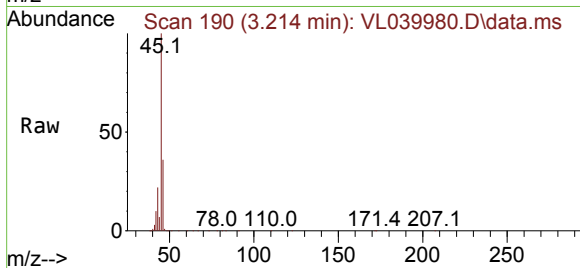




#13
Ethanol
Concen: 71.493 ppbv
RT: 3.214 min Scan# 19
Delta R.T. 0.000 min
Lab File: VL039980.D
Acq: 12 Dec 2022 17:46

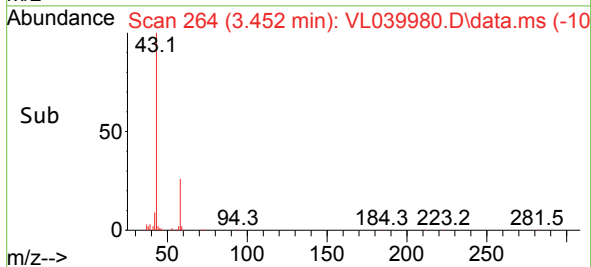
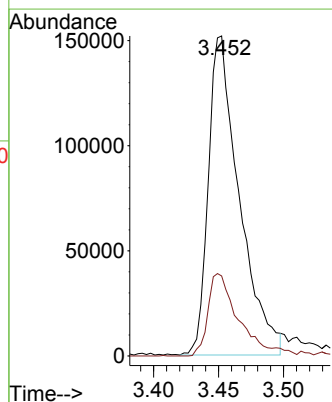
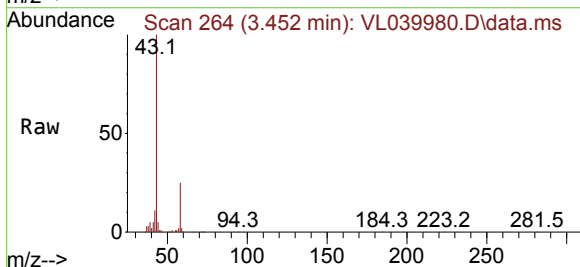
Instrument :
MSVOA_L
ClientSampleId :
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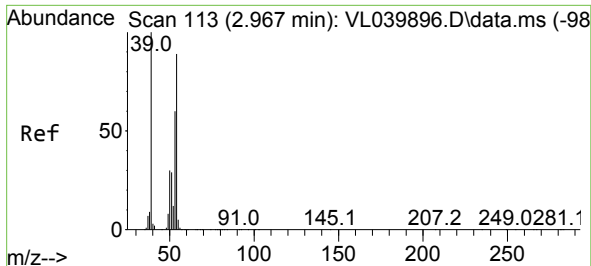
Tgt Ion: 45 Resp: 422329
Ion Ratio Lower Upper
45 100
46 38.1 14.6 58.2



#15
Acetone
Concen: 1.595 ppbv
RT: 3.452 min Scan# 264
Delta R.T. 0.019 min
Lab File: VL039980.D
Acq: 12 Dec 2022 17:46

Tgt Ion: 43 Resp: 251784
Ion Ratio Lower Upper
43 100
58 25.7 22.9 34.3

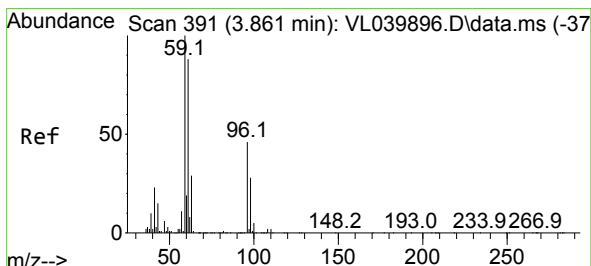
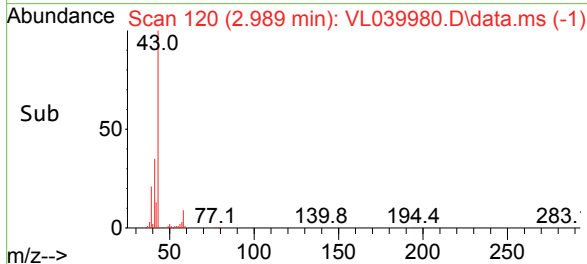
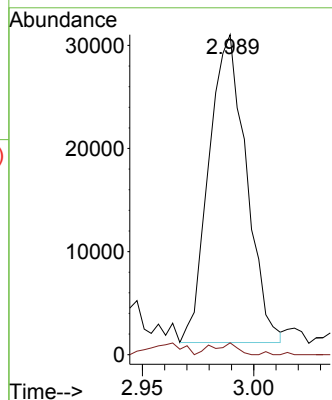
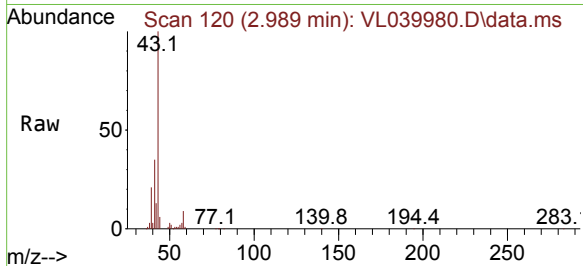




#16
1,3-Butadiene
Concen: 0.444 ppbv
RT: 2.989 min Scan# 113
Delta R.T. 0.039 min
Lab File: VL039980.D
Acq: 12 Dec 2022 17:46

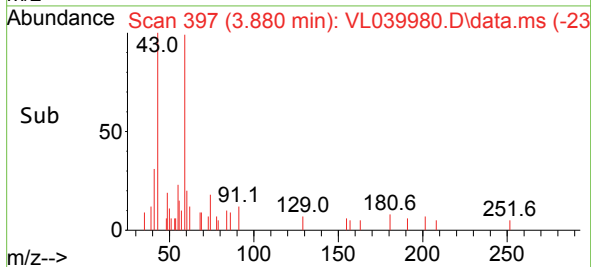
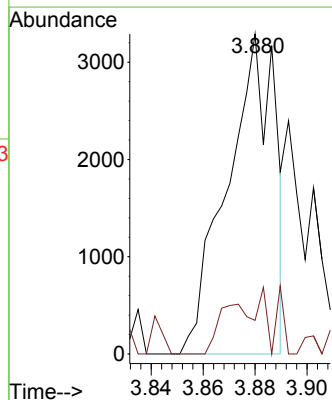
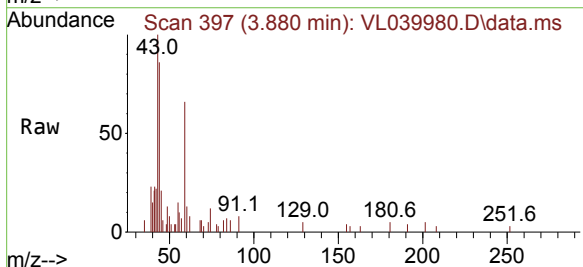
Instrument :
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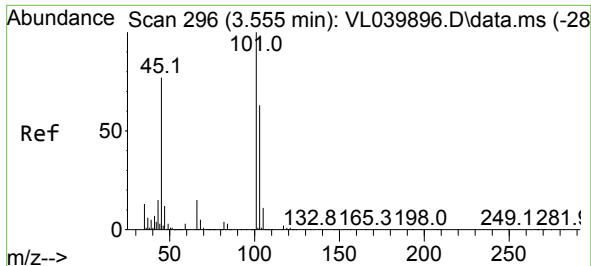
Tgt Ion: 39 Resp: 34925
Ion Ratio Lower Upper
39 100
54 6.1 66.6 99.8#



#17
tert-Butyl alcohol
Concen: 0.023 ppbv
RT: 3.880 min Scan# 397
Delta R.T. 0.036 min
Lab File: VL039980.D
Acq: 12 Dec 2022 17:46

Tgt Ion: 59 Resp: 4195
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

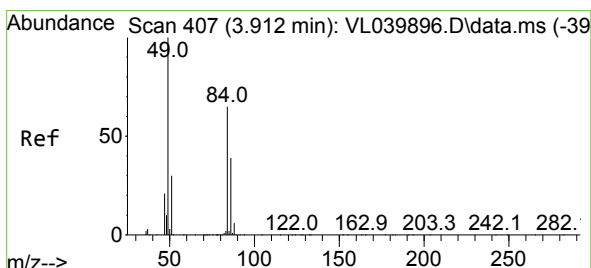
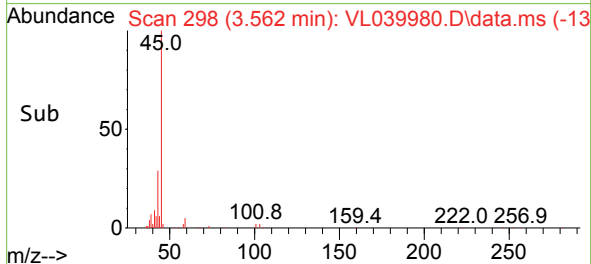
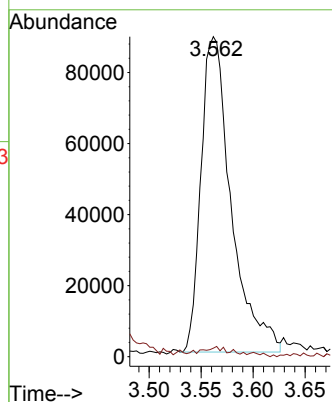
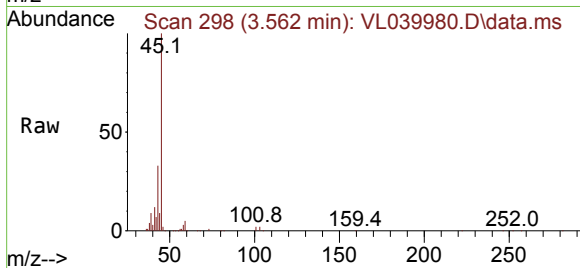




#19
Isopropyl Alcohol
Concen: 2.098 ppbv
RT: 3.562 min Scan# 296
Delta R.T. 0.019 min
Lab File: VL039980.D
Acq: 12 Dec 2022 17:46

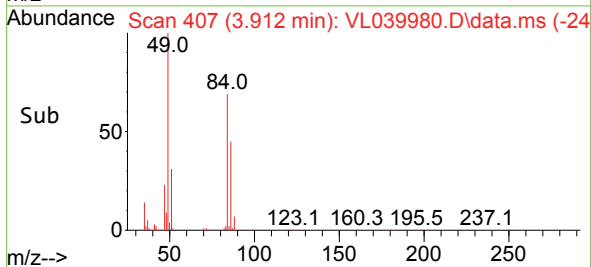
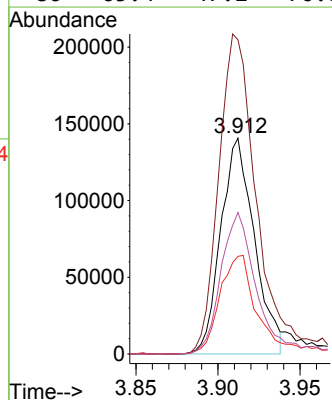
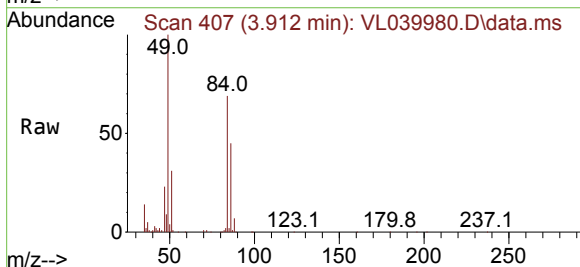
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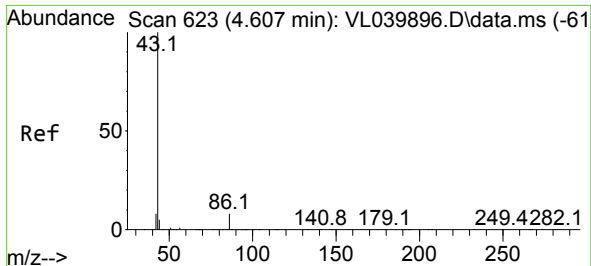
Tgt Ion: 45 Resp: 179335
Ion Ratio Lower Upper
45 100
58 4.4 38.7 58.1#



#20
Methylene Chloride
Concen: 2.622 ppbv
RT: 3.912 min Scan# 407
Delta R.T. 0.016 min
Lab File: VL039980.D
Acq: 12 Dec 2022 17:46

Tgt Ion: 84 Resp: 200593
Ion Ratio Lower Upper
84 100
49 145.5 122.2 183.4
51 45.0 36.3 54.5
86 65.4 47.2 70.8

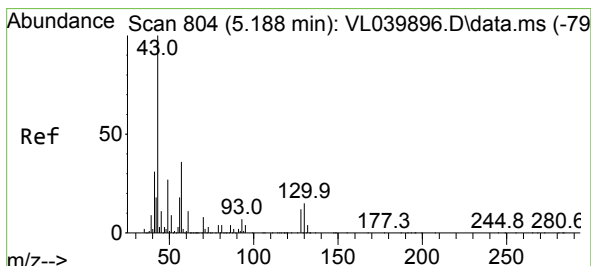
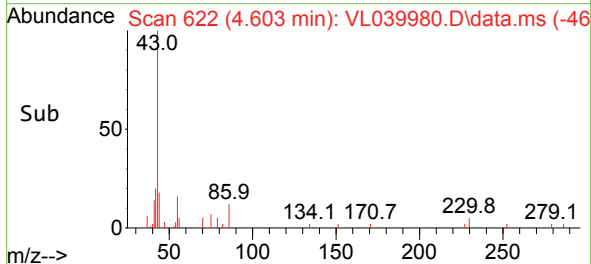
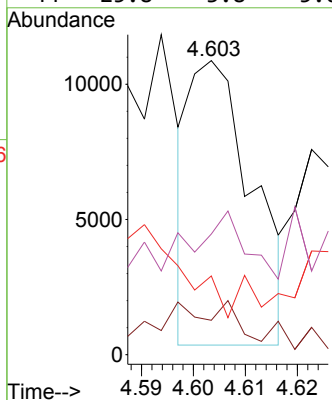
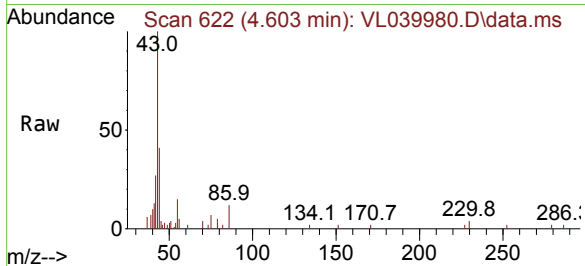




#23
 Vinyl Acetate
 Concen: 0.136 ppbv
 RT: 4.603 min Scan# 61
 Delta R.T. 0.010 min
 Lab File: VL039980.D
 Acq: 12 Dec 2022 17:46

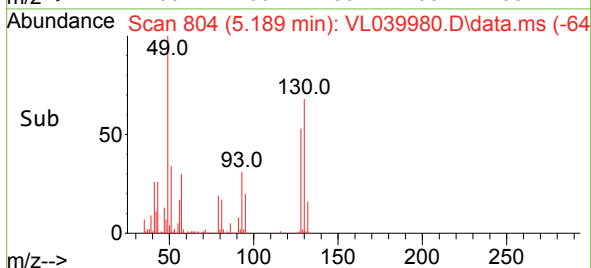
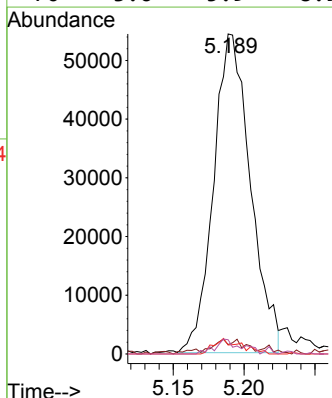
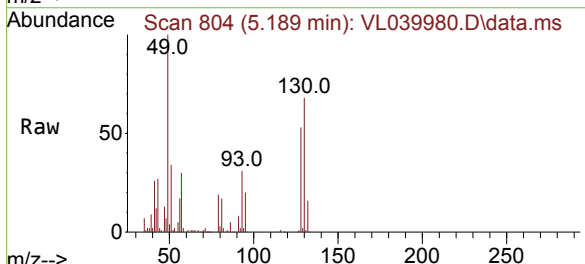
Instrument :
 MSVOA_L
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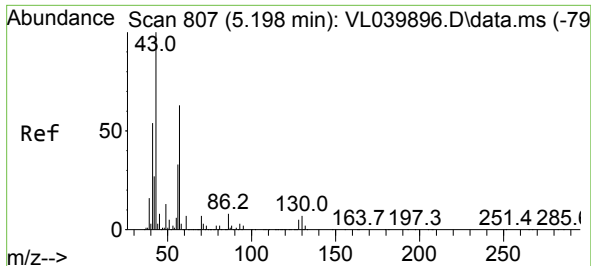
Tgt Ion:	43	Resp:	8826
Ion	Ratio	Lower	Upper
43	100		
86	0.5	5.0	7.4#
42	10.0	7.6	11.4
44	25.8	3.8	5.6#



#25
 Ethyl Acetate
 Concen: 0.339 ppbv
 RT: 5.189 min Scan# 804
 Delta R.T. 0.019 min
 Lab File: VL039980.D
 Acq: 12 Dec 2022 17:46

Tgt Ion:	43	Resp:	98216
Ion	Ratio	Lower	Upper
43	100		
45	5.6	8.4	12.6#
61	3.6	8.5	12.7#
70	3.6	5.9	8.9#

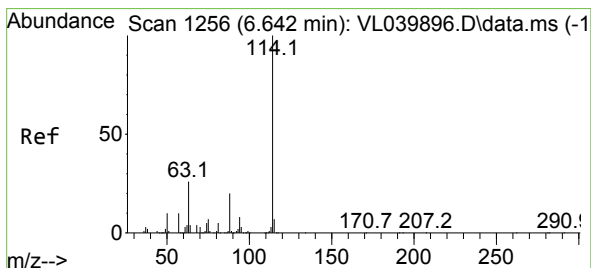
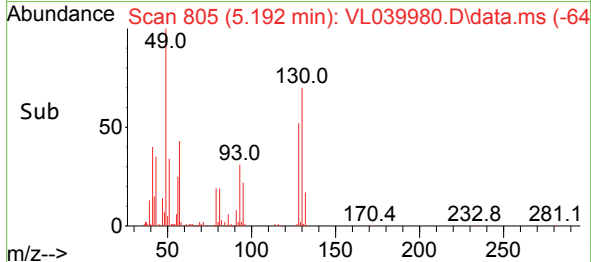
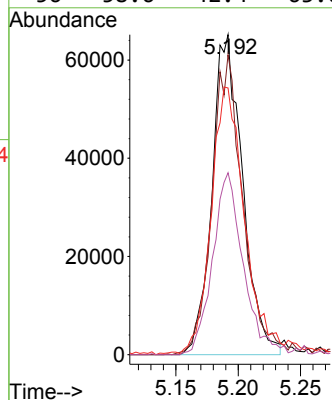
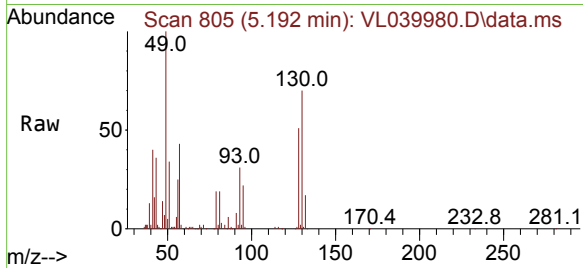




#26
Hexane
Concen: 0.879 ppbv
RT: 5.192 min Scan# 807
Delta R.T. 0.016 min
Lab File: VL039980.D
Acq: 12 Dec 2022 17:46

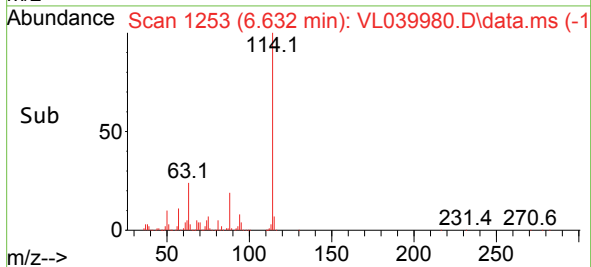
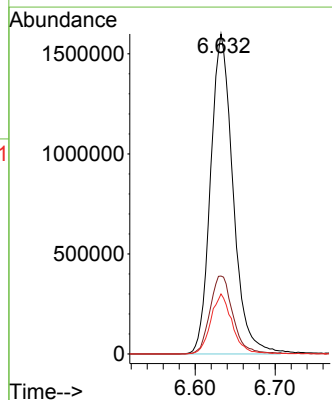
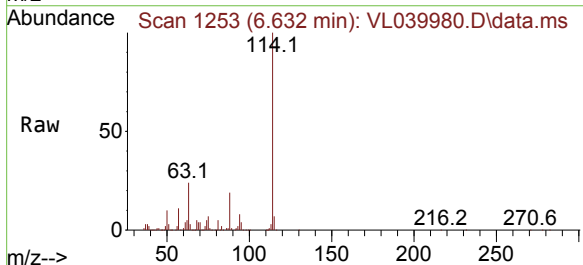
Instrument :
MSVOA_L
ClientSampleId :
IA-1DL

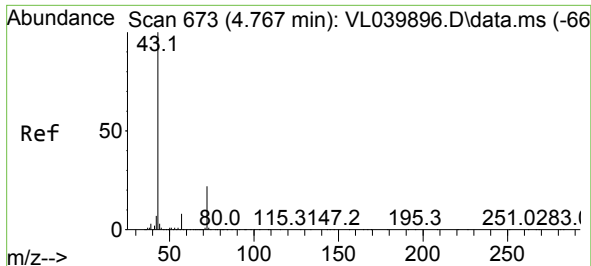
Tgt Ion: 57 Resp: 111300
Ion Ratio Lower Upper
57 100
41 96.8 72.3 108.5
43 95.8 188.7 283.1#
56 58.6 42.4 63.6



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.632 min Scan# 1253
Delta R.T. 0.013 min
Lab File: VL039980.D
Acq: 12 Dec 2022 17:46

Tgt Ion: 114 Resp: 3113181
Ion Ratio Lower Upper
114 100
63 25.3 21.4 32.0
88 18.1 15.3 22.9

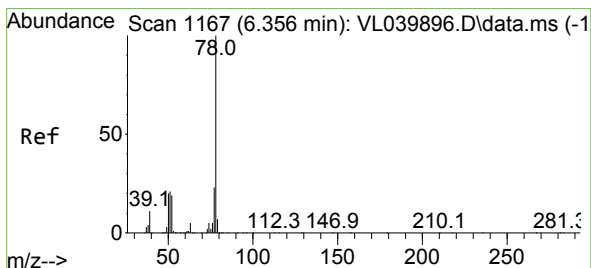
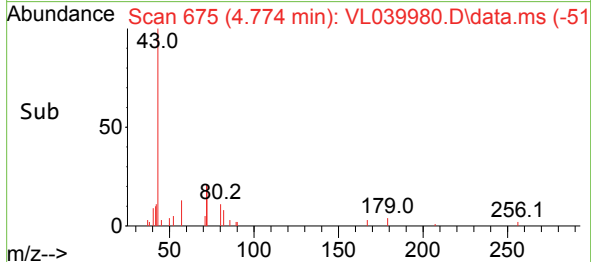
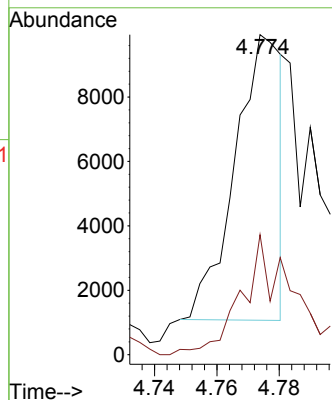
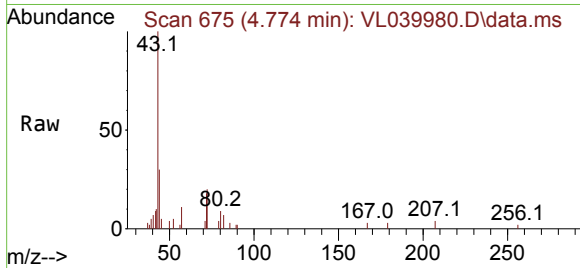




#34
2-Butanone
Concen: 0.061 ppbv
RT: 4.774 min Scan# 61
Delta R.T. 0.023 min
Lab File: VL039980.D
Acq: 12 Dec 2022 17:46

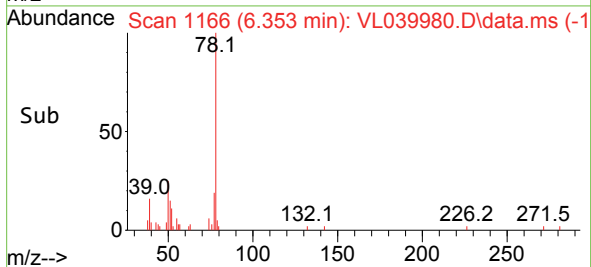
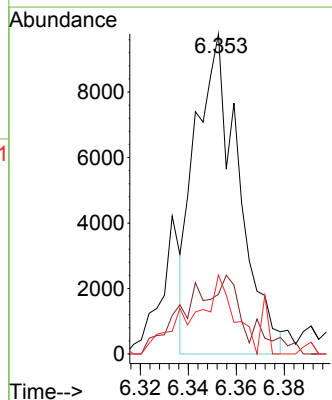
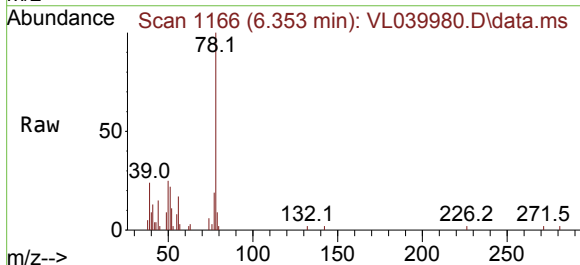
Instrument :
MSVOA_L
ClientSampleId :
IA-1DL

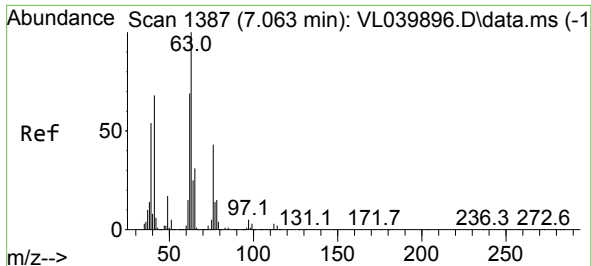
Tgt Ion: 43 Resp: 9138
Ion Ratio Lower Upper
43 100
72 53.7 17.4 26.2#



#36
Benzene
Concen: 0.046 ppbv
RT: 6.353 min Scan# 1166
Delta R.T. 0.019 min
Lab File: VL039980.D
Acq: 12 Dec 2022 17:46

Tgt Ion: 78 Resp: 12245
Ion Ratio Lower Upper
78 100
77 14.4 18.2 27.2#
50 23.0 15.8 23.8





#39

1,2-Dichloropropane

Concen: 7.500 ppbv

RT: 6.632 min Scan# 11

Delta R.T. -0.402 min

Lab File: VL039980.D

Acq: 12 Dec 2022 17:46

Instrument :

MSVOA_L

ClientSampleId :

IA-1DL

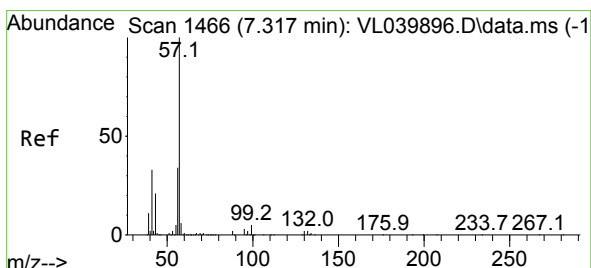
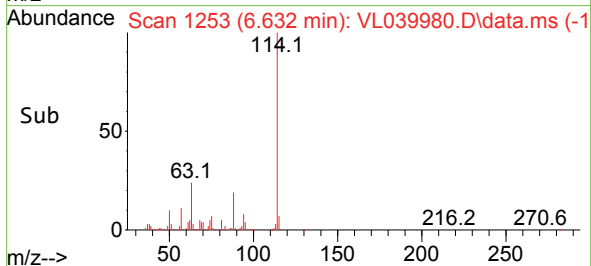
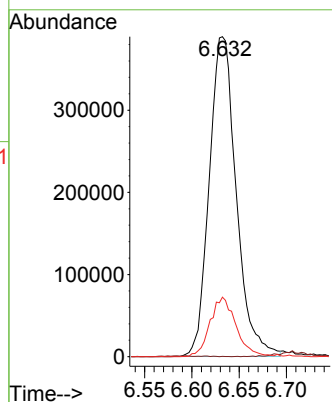
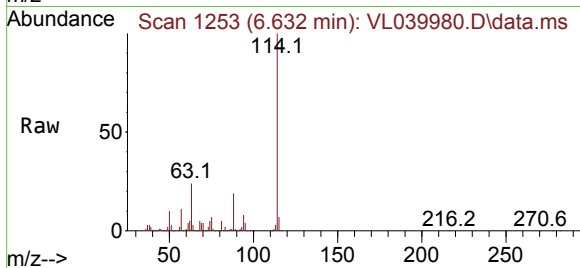
Tgt Ion: 63 Resp: 773276

Ion Ratio Lower Upper

63 100

41 0.0 54.7 82.1#

62 18.6 55.0 82.6#



#44

2,2,4-Trimethylpentane

Concen: 0.187 ppbv

RT: 7.304 min Scan# 1462

Delta R.T. 0.013 min

Lab File: VL039980.D

Acq: 12 Dec 2022 17:46

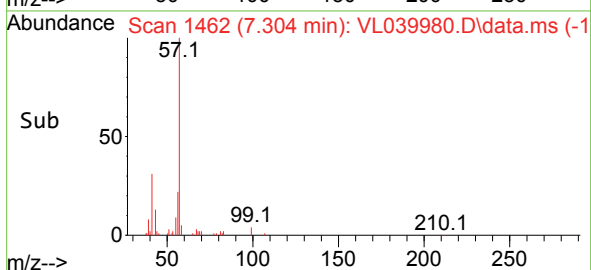
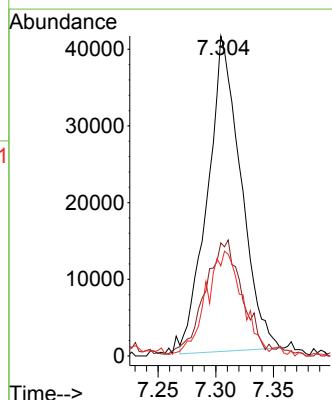
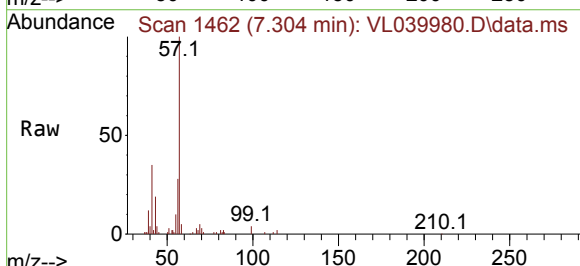
Tgt Ion: 57 Resp: 82424

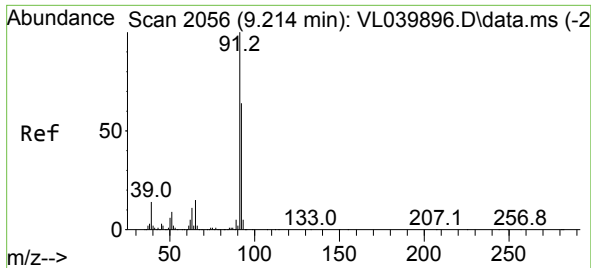
Ion Ratio Lower Upper

57 100

41 43.2 26.2 39.2#

56 38.2 25.5 38.3

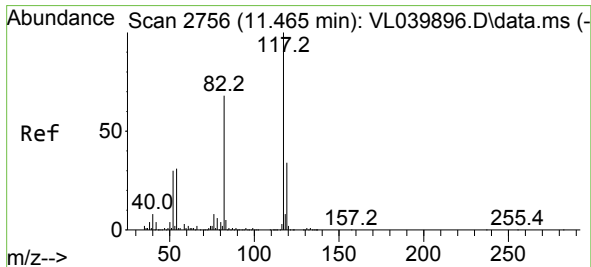
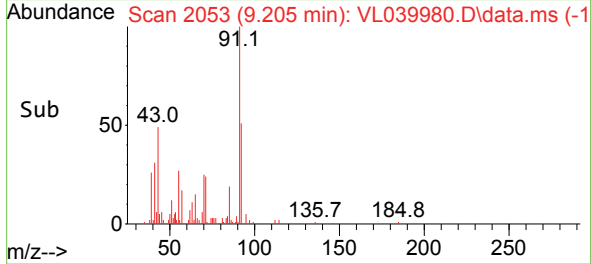
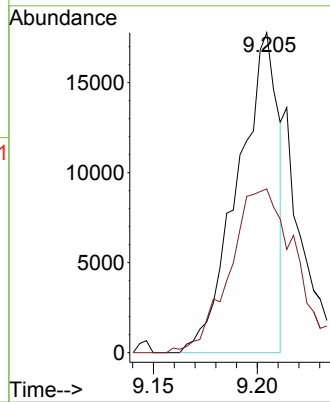
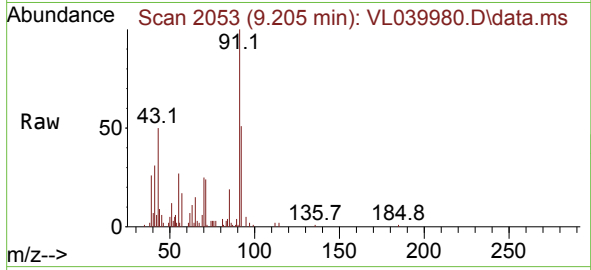




#53
Toluene
Concen: 0.080 ppbv
RT: 9.205 min Scan# 2053
Delta R.T. 0.019 min
Lab File: VL039980.D
Acq: 12 Dec 2022 17:46

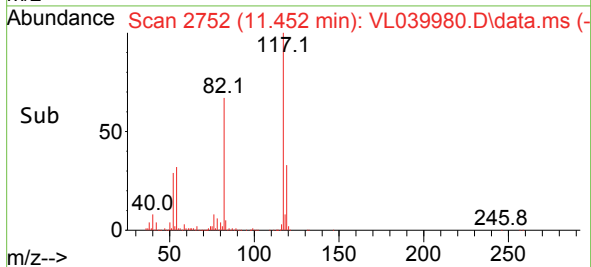
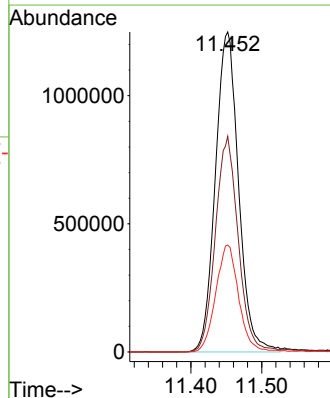
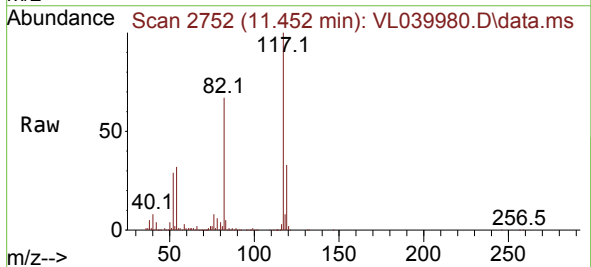
Instrument :
MSVOA_L
ClientSampleId :
IA-1DL

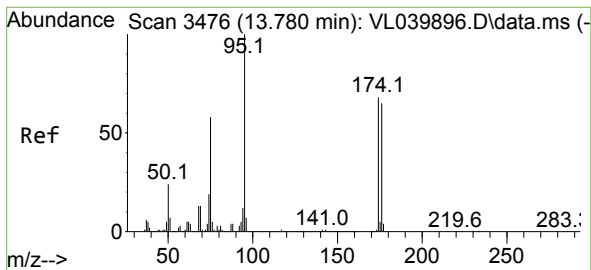
Tgt Ion: 91 Resp: 23992
Ion Ratio Lower Upper
91 100
92 86.3 49.8 74.6#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.452 min Scan# 2752
Delta R.T. 0.019 min
Lab File: VL039980.D
Acq: 12 Dec 2022 17:46

Tgt Ion: 117 Resp: 2840072
Ion Ratio Lower Upper
117 100
82 67.2 52.3 78.5
119 33.4 25.7 38.5





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.768 ppbv
 RT: 13.764 min Scan# 3471
 Delta R.T. 0.023 min
 Lab File: VL039980.D
 Acq: 12 Dec 2022 17:46

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DL

Tgt Ion: 95 Resp: 2335896

Ion	Ratio	Lower	Upper
95	100		
174	60.6	53.7	80.5
175	4.4	4.0	6.0

