

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112222\
 Data File : VL039925.D
 Acq On : 22 Nov 2022 20:48
 Operator : SY/AP
 Sample : N5767-03DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL

Quant Time: Nov 23 04:51:38 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 : Tue Nov 22 03:45:31 2022
 Response via : Initial Calibration

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

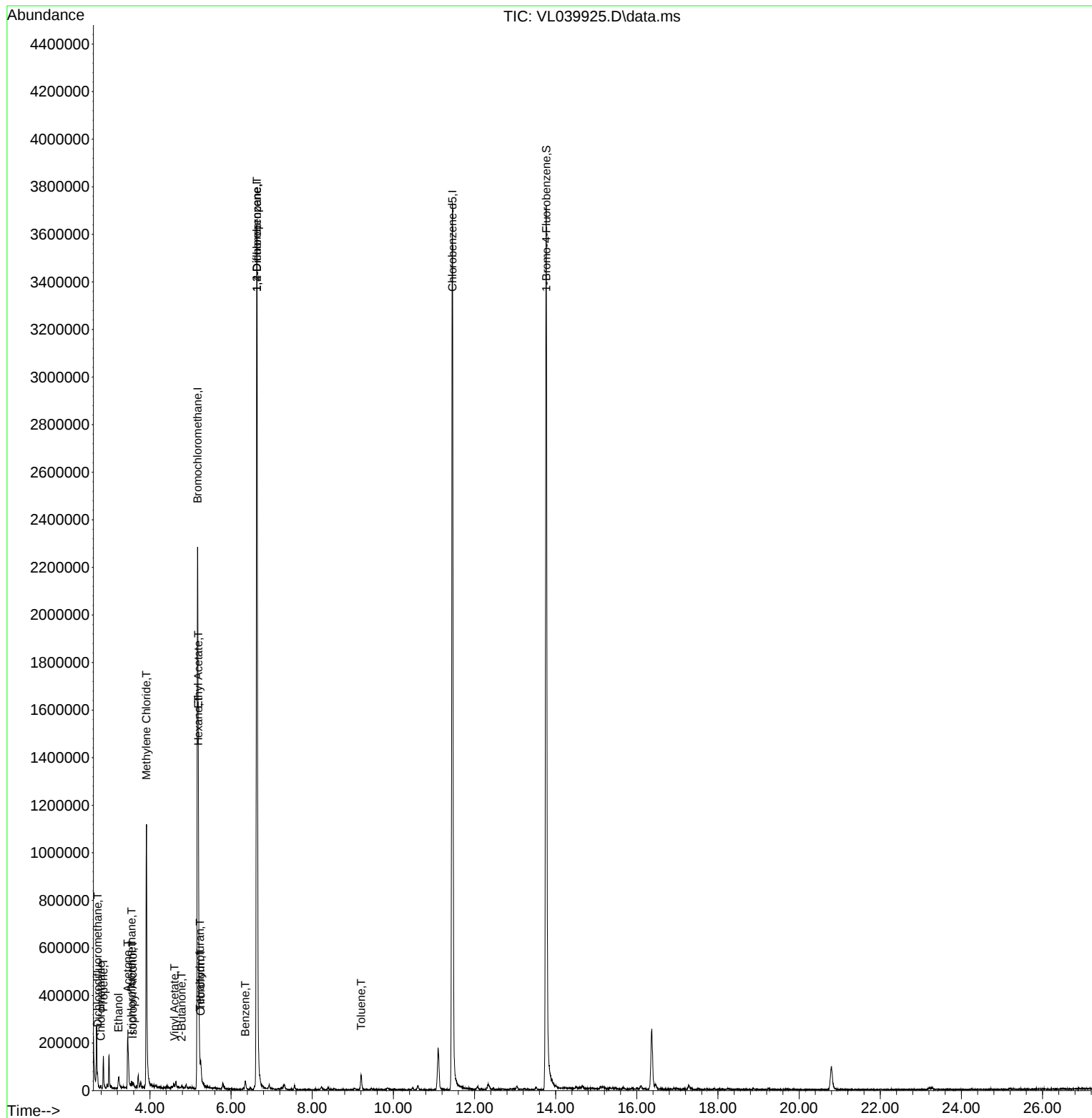
Internal Standards						
1) Bromochloromethane	5.173	49	1020770	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.635	114	2762588	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.455	117	2433259	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	1934736	10.410	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.710	85	28212	0.193	ppbv	91
4) Chloromethane	2.790	50	9486	0.105	ppbv	96
9) Propene	2.851	41	32089	0.484	ppbv	91
11) Trichlorofluoromethane	3.546	101	10978	0.062	ppbv #	78
13) Ethanol	3.227	45	34140	6.739	ppbv #	46
15) Acetone	3.456	43	218109	1.611	ppbv	97
19) Isopropyl Alcohol	3.578	45	9422	0.129	ppbv	91
20) Methylene Chloride	3.915	84	382571	5.832	ppbv	97
23) Vinyl Acetate	4.607	43	2792	0.050	ppbv #	1
25) Ethyl Acetate	5.192	43	194108	0.781	ppbv #	76
26) Hexane	5.195	57	281311	2.591	ppbv #	38
29) Chloroform	5.253	83	39547	0.274	ppbv	86
34) 2-Butanone	4.780	43	4291	0.032	ppbv #	1
36) Benzene	6.349	78	13136	0.056	ppbv #	85
39) 1,2-Dichloropropane	6.635	63	691861	7.562	ppbv #	27
41) Tetrahydrofuran	5.230	42	3246	0.036	ppbv #	57
53) Toluene	9.204	91	41256	0.154	ppbv	99

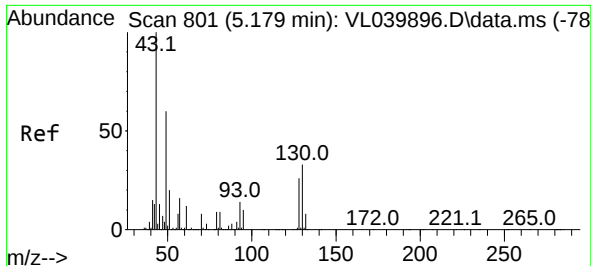
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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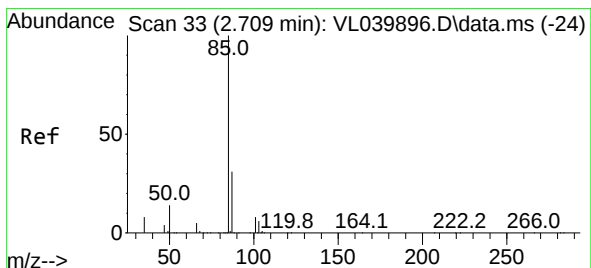
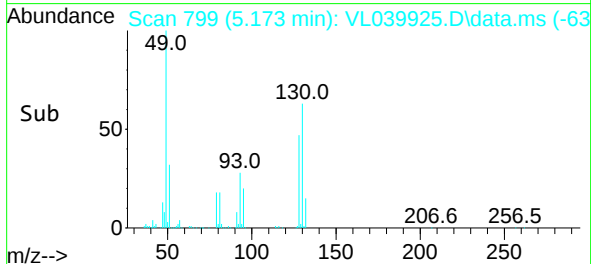
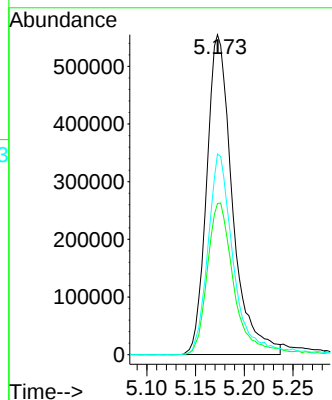
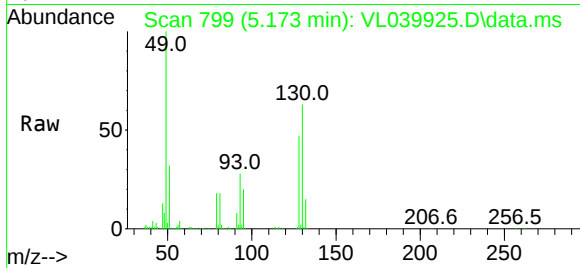




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.173 min Scan# 79
Delta R.T. 0.017 min
Lab File: VL039925.D
Acq: 22 Nov 2022 20:48

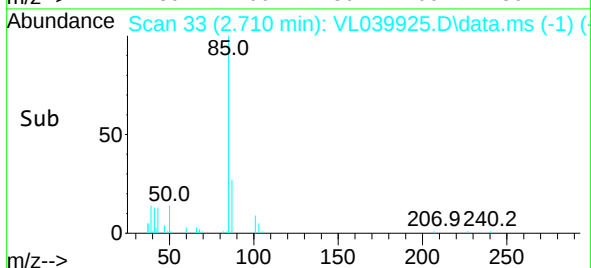
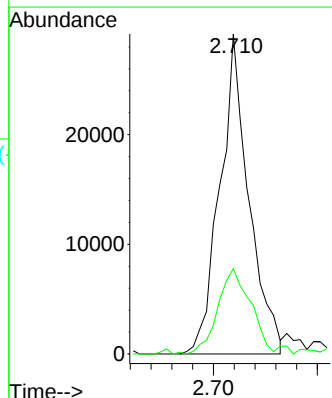
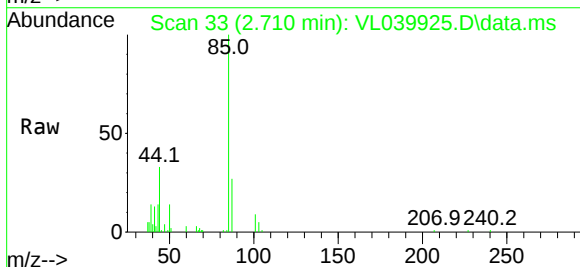
Instrument :
MSVOA_L
ClientSampleId :
IA1DL

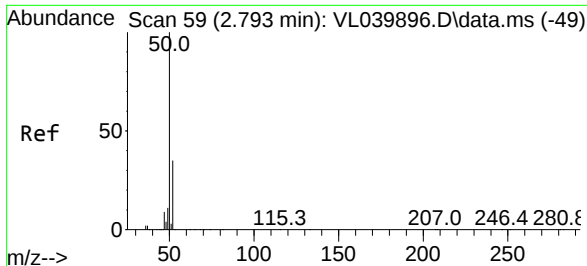
Tgt Ion: 49 Resp: 1020770
Ion Ratio Lower Upper
49 100
128 49.7 22.1 66.3
130 63.8 27.7 83.1



#2
Dichlorodifluoromethane
Concen: 0.193 ppbv
RT: 2.710 min Scan# 33
Delta R.T. 0.013 min
Lab File: VL039925.D
Acq: 22 Nov 2022 20:48

Tgt Ion: 85 Resp: 28212
Ion Ratio Lower Upper
85 100
87 26.1 25.0 37.4

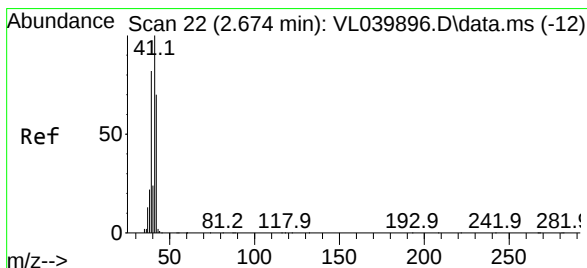
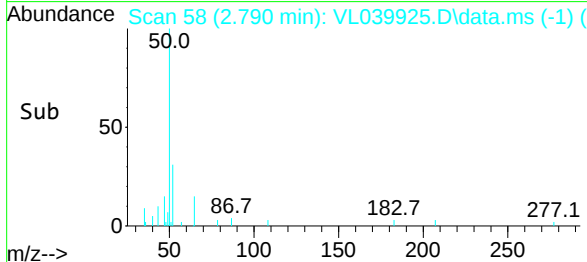
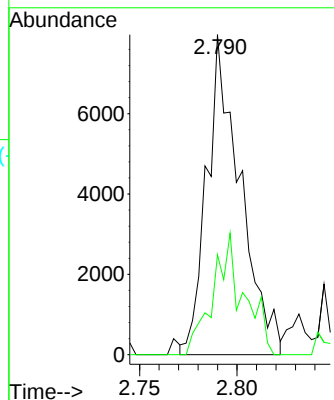
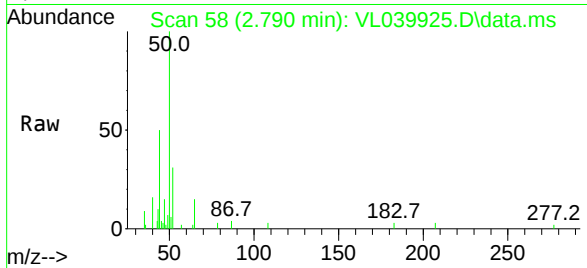




#4
Chloromethane
Concen: 0.105 ppbv
RT: 2.790 min Scan# 51
Delta R.T. 0.010 min
Lab File: VL039925.D
Acq: 22 Nov 2022 20:48

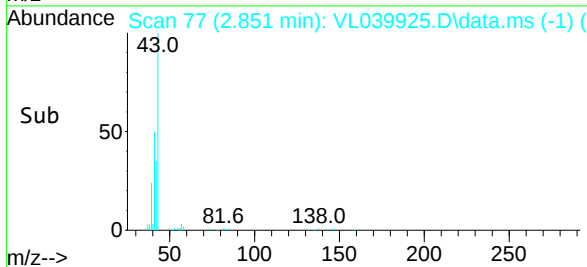
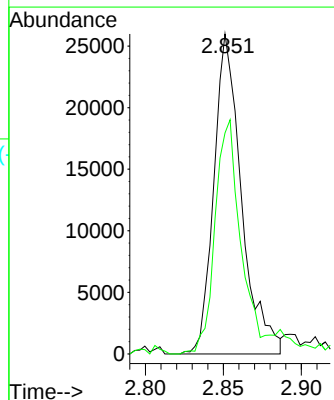
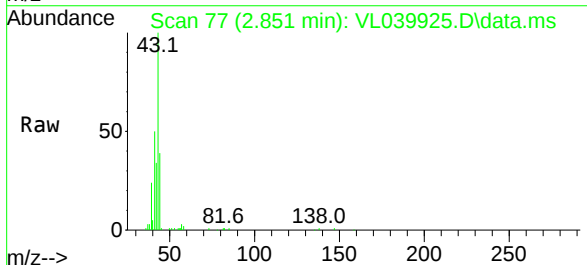
Instrument :
MSVOA_L
ClientSampleId :
IA1DL

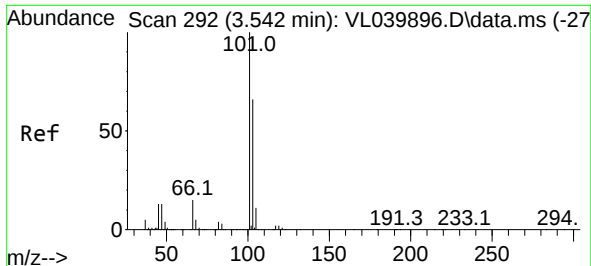
Tgt Ion: 50 Resp: 9486
Ion Ratio Lower Upper
50 100
52 32.2 27.8 41.8



#9
Propene
Concen: 0.484 ppbv
RT: 2.851 min Scan# 77
Delta R.T. 0.190 min
Lab File: VL039925.D
Acq: 22 Nov 2022 20:48

Tgt Ion: 41 Resp: 32089
Ion Ratio Lower Upper
41 100
42 77.3 55.8 83.6

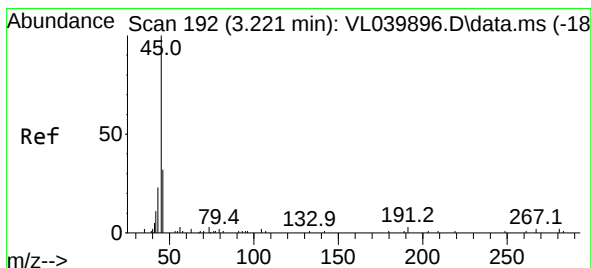
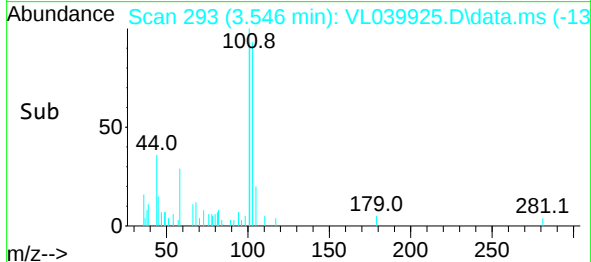
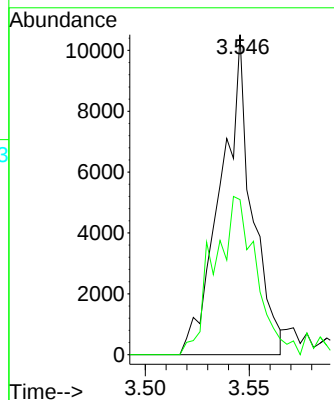
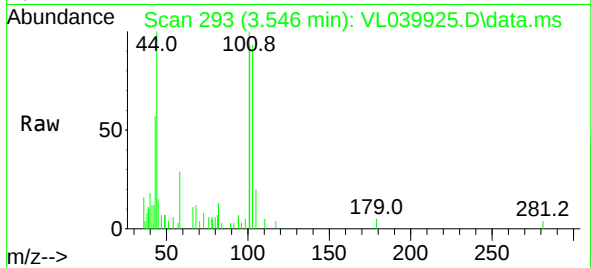




#11
 Trichlorofluoromethane
 Concen: 0.062 ppbv
 RT: 3.546 min Scan# 292
 Delta R.T. 0.016 min
 Lab File: VL039925.D
 Acq: 22 Nov 2022 20:48

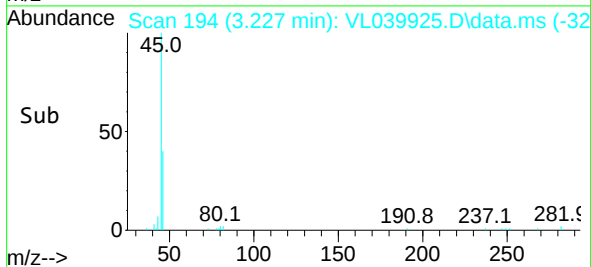
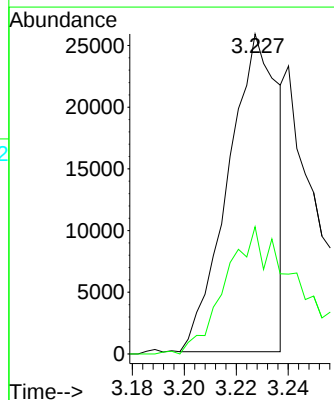
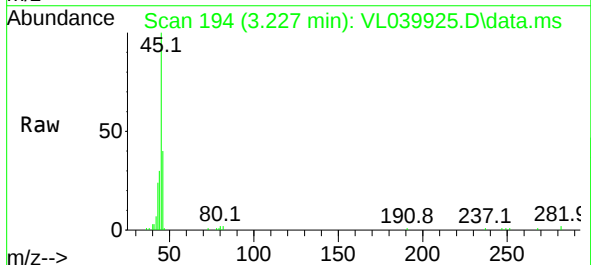
Instrument :
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 ClientSampleId :
 IA1DL

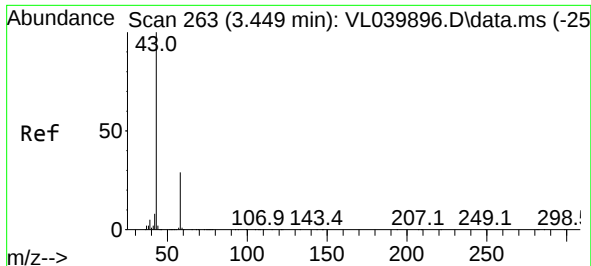
Tgt Ion:101 Resp: 10978
 Ion Ratio Lower Upper
 101 100
 103 48.4 52.6 78.8#



#13
 Ethanol
 Concen: 6.739 ppbv
 RT: 3.227 min Scan# 194
 Delta R.T. 0.019 min
 Lab File: VL039925.D
 Acq: 22 Nov 2022 20:48

Tgt Ion: 45 Resp: 34140
 Ion Ratio Lower Upper
 45 100
 46 68.3 14.6 58.2#

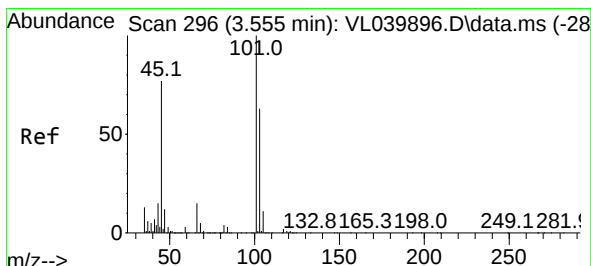
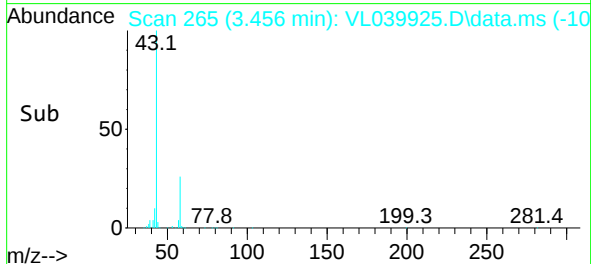
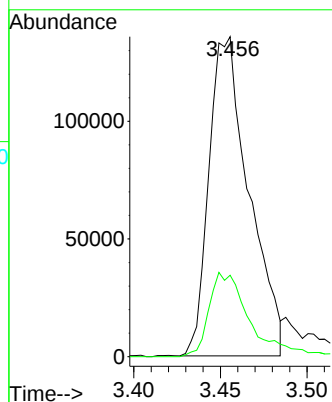
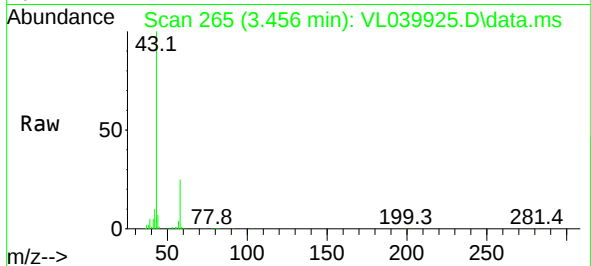




#15
Acetone
Concen: 1.611 ppbv
RT: 3.456 min Scan# 215
Delta R.T. 0.023 min
Lab File: VL039925.D
Acq: 22 Nov 2022 20:48

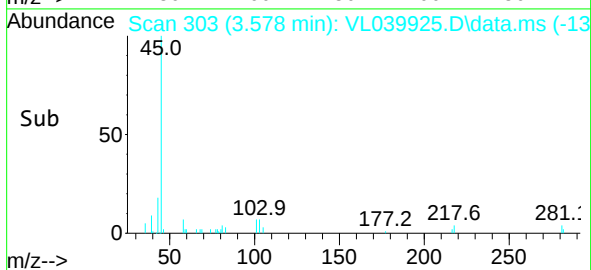
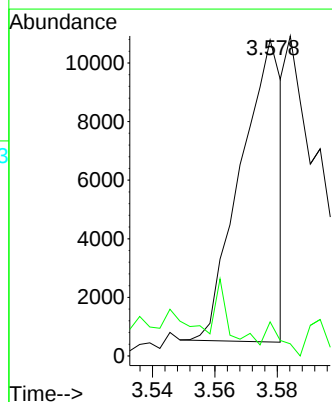
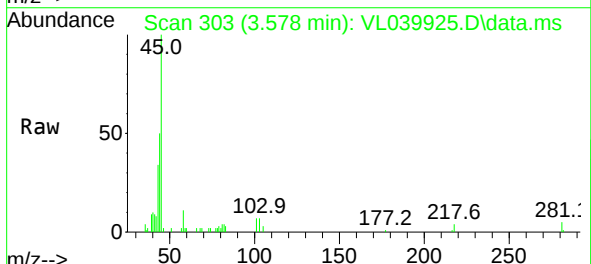
Instrument :
MSVOA_L
ClientSampleId :
IA1DL

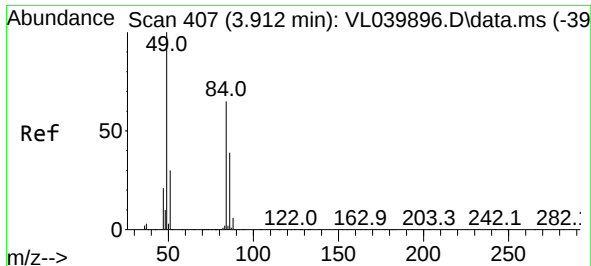
Tgt Ion: 43 Resp: 218109
Ion Ratio Lower Upper
43 100
58 27.0 22.9 34.3



#19
Isopropyl Alcohol
Concen: 0.129 ppbv
RT: 3.578 min Scan# 303
Delta R.T. 0.035 min
Lab File: VL039925.D
Acq: 22 Nov 2022 20:48

Tgt Ion: 45 Resp: 9422
Ion Ratio Lower Upper
45 100
58 42.0 38.7 58.1

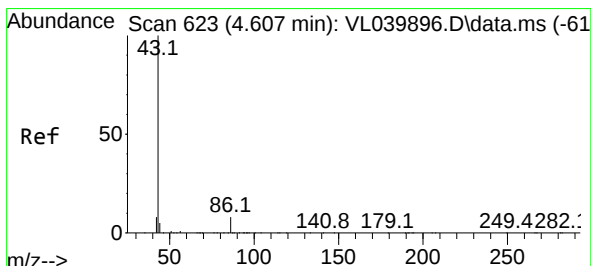
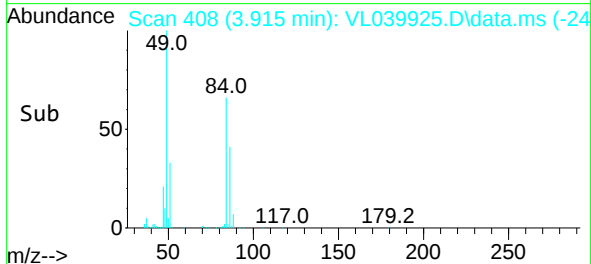
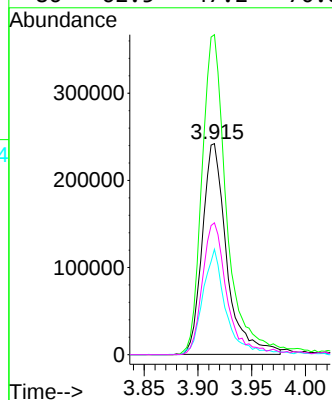
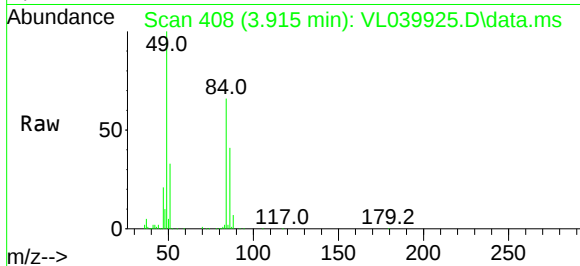




#20
Methylene Chloride
Concen: 5.832 ppbv
RT: 3.915 min Scan# 407
Delta R.T. 0.016 min
Lab File: VL039925.D
Acq: 22 Nov 2022 20:48

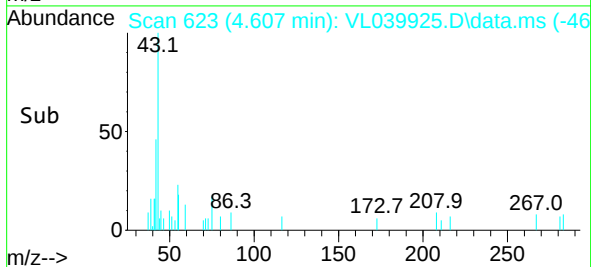
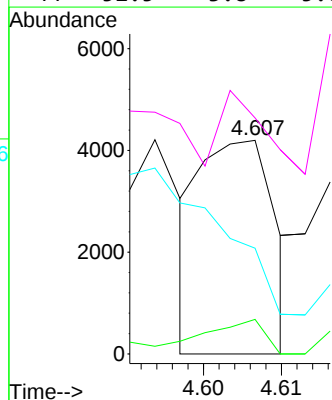
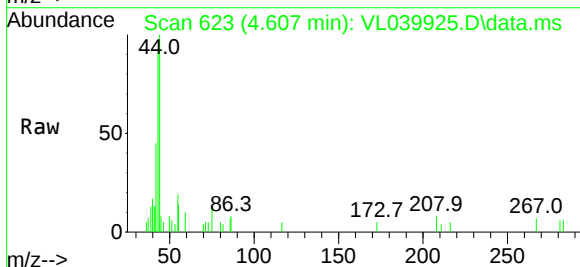
Instrument :
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ClientSampleId :
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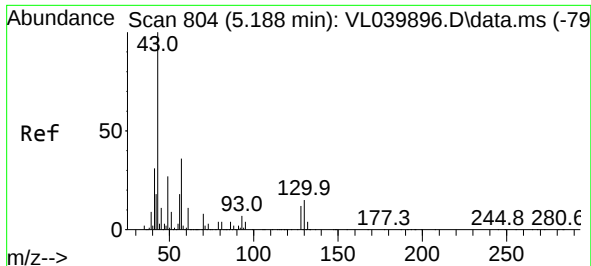
Tgt Ion: 84 Resp: 382571
Ion Ratio Lower Upper
84 100
49 151.6 122.2 183.4
51 50.0 36.3 54.5
86 62.5 47.2 70.8



#23
Vinyl Acetate
Concen: 0.050 ppbv
RT: 4.607 min Scan# 623
Delta R.T. 0.016 min
Lab File: VL039925.D
Acq: 22 Nov 2022 20:48

Tgt Ion: 43 Resp: 2792
Ion Ratio Lower Upper
43 100
86 36.4 5.0 7.4#
42 69.5 7.6 11.4#
44 52.5 3.8 5.6#

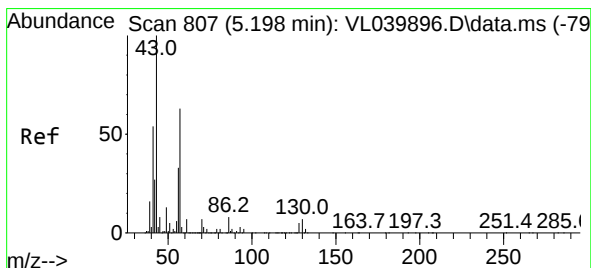
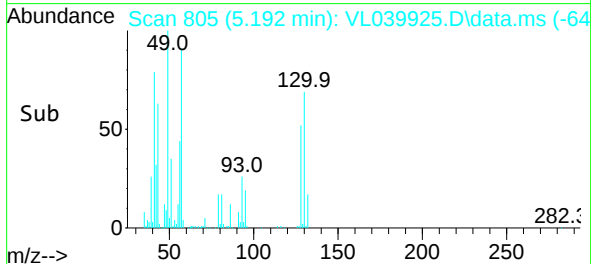
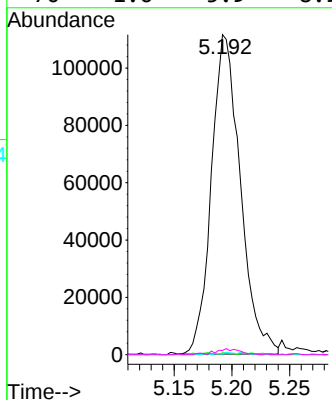
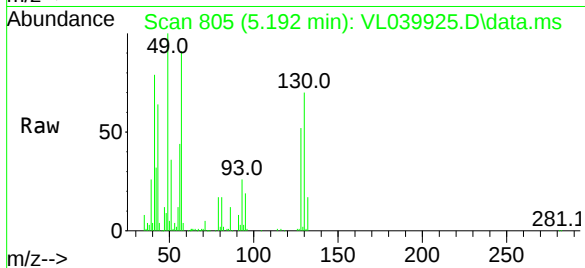




#25
Ethyl Acetate
Concen: 0.781 ppbv
RT: 5.192 min Scan# 805
Delta R.T. 0.023 min
Lab File: VL039925.D
Acq: 22 Nov 2022 20:48

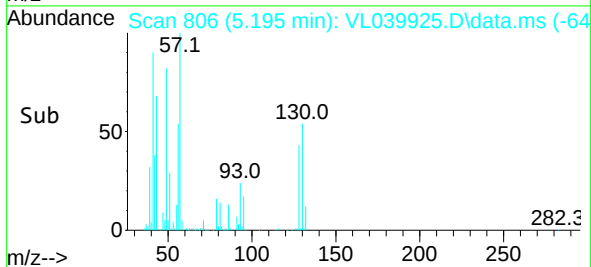
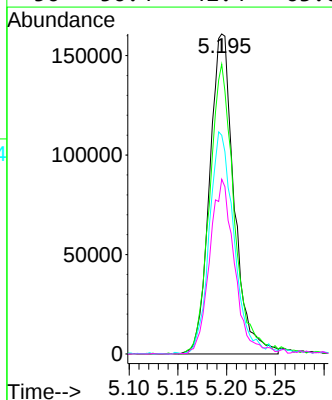
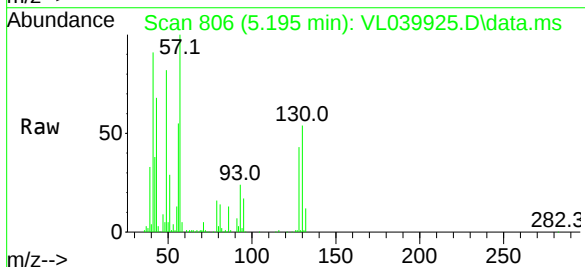
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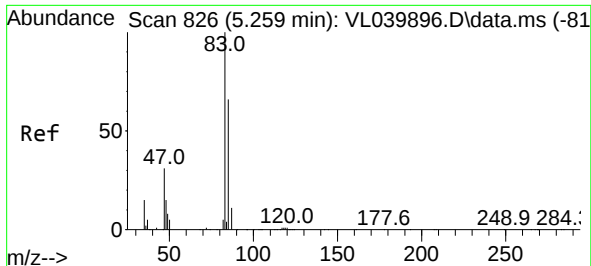
Tgt Ion: 43 Resp: 194108
Ion Ratio Lower Upper
43 100
45 0.4 8.4 12.6#
61 0.6 8.5 12.7#
70 1.6 5.9 8.9#



#26
Hexane
Concen: 2.591 ppbv
RT: 5.195 min Scan# 806
Delta R.T. 0.013 min
Lab File: VL039925.D
Acq: 22 Nov 2022 20:48

Tgt Ion: 57 Resp: 281311
Ion Ratio Lower Upper
57 100
41 92.5 72.3 108.5
43 71.8 188.7 283.1#
56 56.4 42.4 63.6





#29

Chloroform

Concen: 0.274 ppbv

RT: 5.253 min Scan# 81

Delta R.T. 0.013 min

Lab File: VL039925.D

Acq: 22 Nov 2022 20:48

Instrument :

MSVOA_L

ClientSampleId :

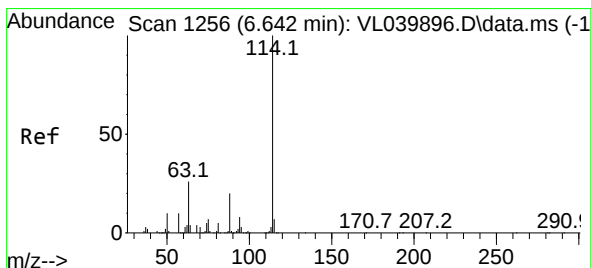
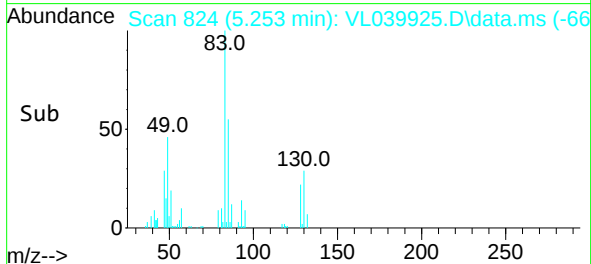
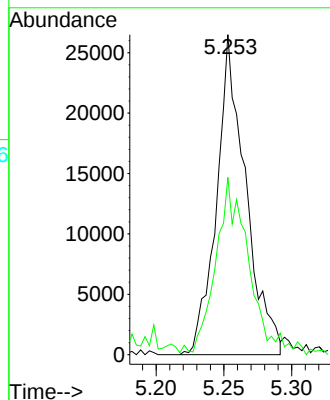
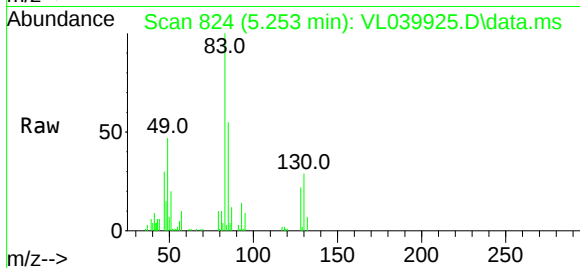
IA1DL

Tgt Ion: 83 Resp: 39547

Ion Ratio Lower Upper

83 100

85 54.8 52.4 78.6



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.635 min Scan# 1254

Delta R.T. 0.016 min

Lab File: VL039925.D

Acq: 22 Nov 2022 20:48

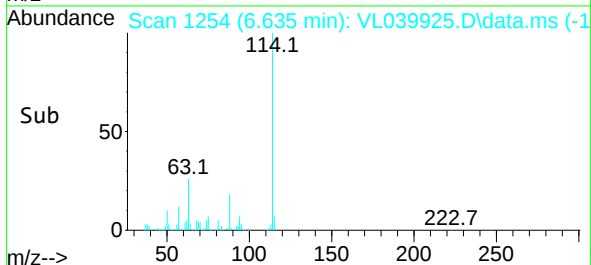
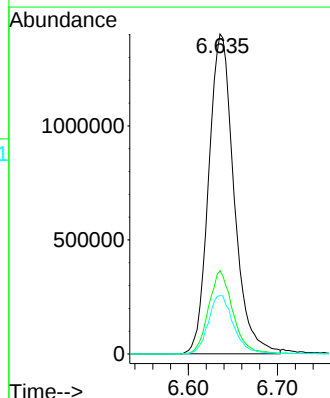
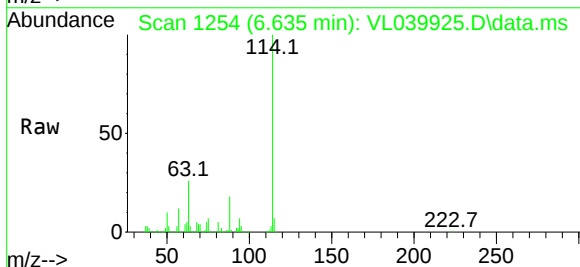
Tgt Ion: 114 Resp: 2762588

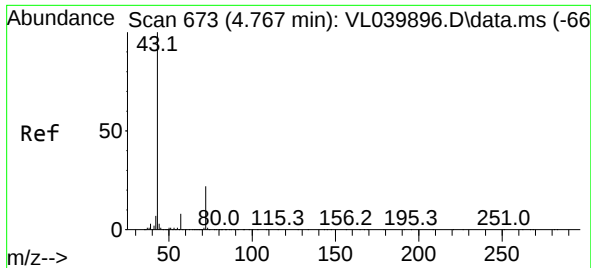
Ion Ratio Lower Upper

114 100

63 25.4 21.4 32.0

88 18.4 15.3 22.9

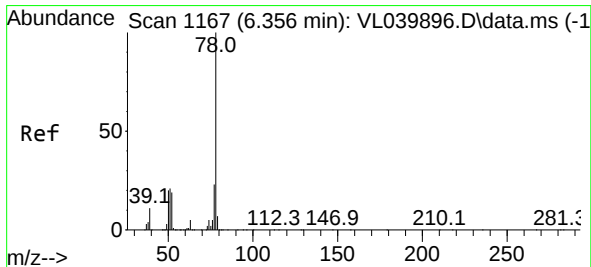
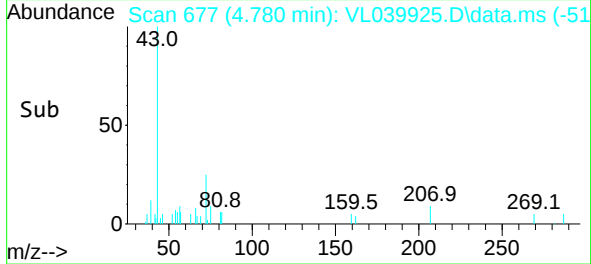
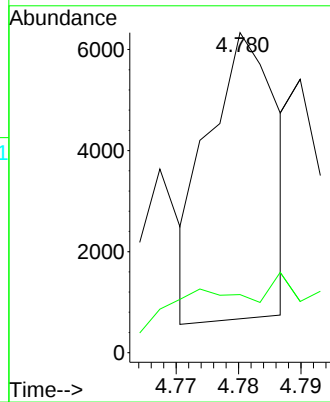
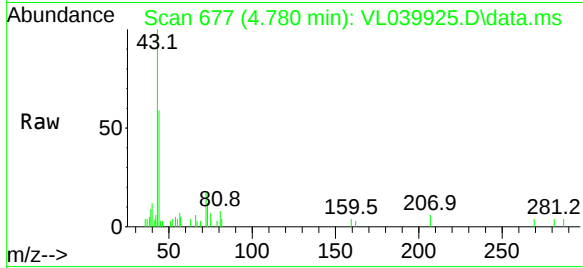




#34
2-Butanone
Concen: 0.032 ppbv
RT: 4.780 min Scan# 61
Delta R.T. 0.029 min
Lab File: VL039925.D
Acq: 22 Nov 2022 20:48

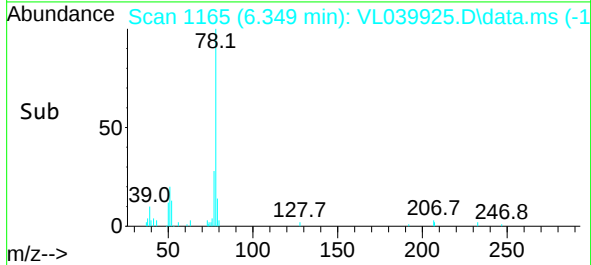
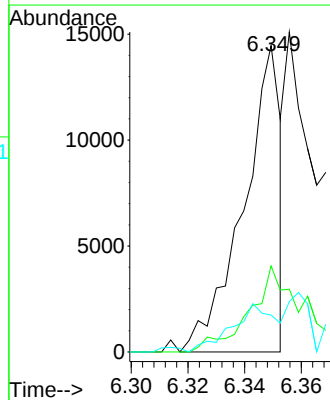
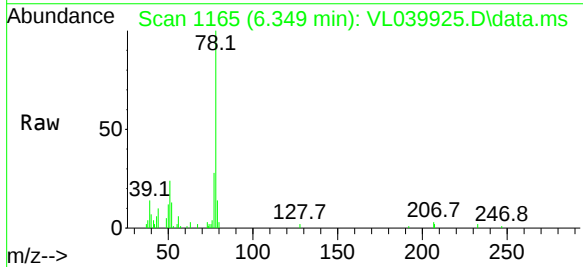
Instrument :
MSVOA_L
ClientSampleId :
IA1DL

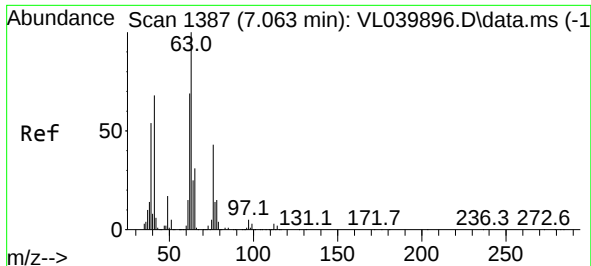
Tgt Ion: 43 Resp: 4291
Ion Ratio Lower Upper
43 100
72 73.2 17.4 26.2#



#36
Benzene
Concen: 0.056 ppbv
RT: 6.349 min Scan# 1165
Delta R.T. 0.013 min
Lab File: VL039925.D
Acq: 22 Nov 2022 20:48

Tgt Ion: 78 Resp: 13136
Ion Ratio Lower Upper
78 100
77 28.1 18.2 27.2#
50 10.9 15.8 23.8#





#39

1,2-Dichloropropane

Concen: 7.562 ppbv

RT: 6.635 min Scan# 1

Delta R.T. -0.405 min

Lab File: VL039925.D

Acq: 22 Nov 2022 20:48

Instrument :

MSVOA_L

ClientSampleId :

IA1DL

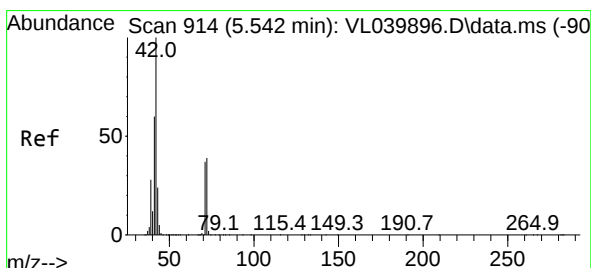
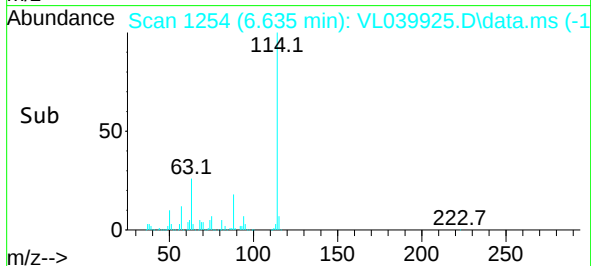
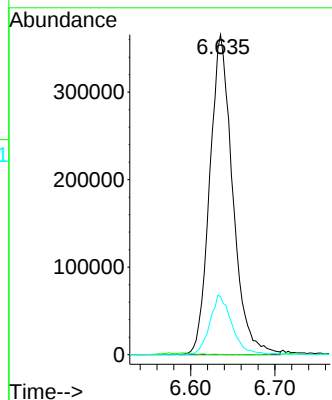
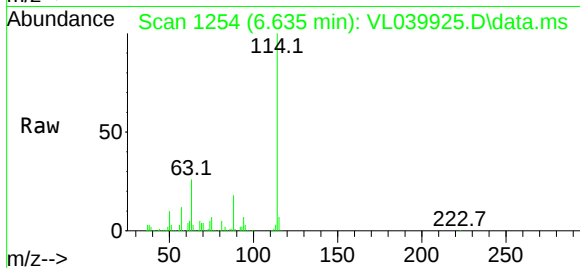
Tgt Ion: 63 Resp: 691861

Ion Ratio Lower Upper

63 100

41 0.0 54.7 82.1#

62 18.1 55.0 82.6#



#41

Tetrahydrofuran

Concen: 0.036 ppbv

RT: 5.230 min Scan# 817

Delta R.T. -0.293 min

Lab File: VL039925.D

Acq: 22 Nov 2022 20:48

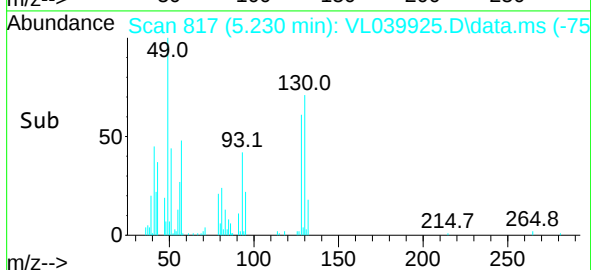
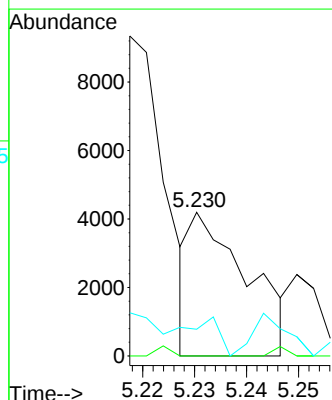
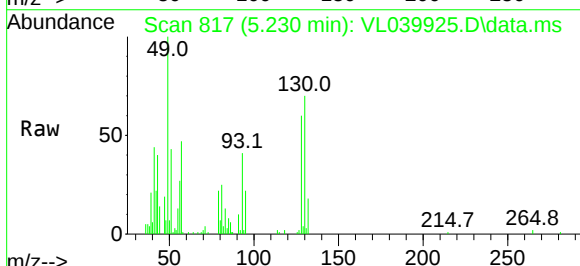
Tgt Ion: 42 Resp: 3246

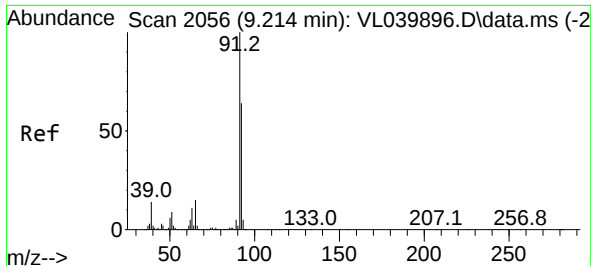
Ion Ratio Lower Upper

42 100

72 1.7 31.6 47.4#

71 24.2 31.2 46.8#





#53

Toluene

Concen: 0.154 ppbv

RT: 9.204 min Scan# 2056

Delta R.T. 0.013 min

Lab File: VL039925.D

Acq: 22 Nov 2022 20:48

Instrument :

MSVOA_L

ClientSampleId :

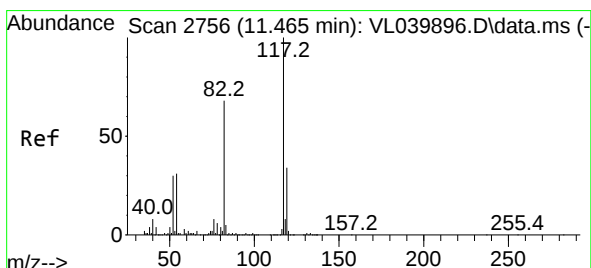
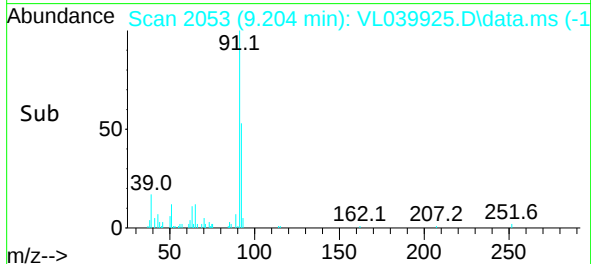
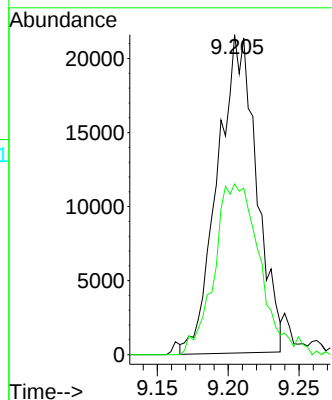
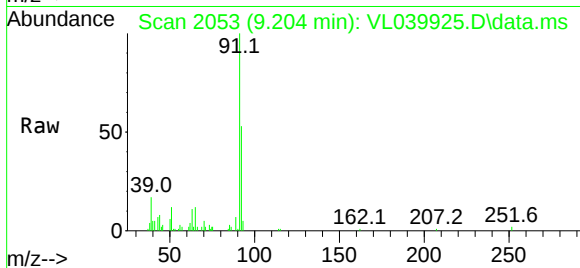
IA1DL

Tgt Ion: 91 Resp: 41256

Ion Ratio Lower Upper

91 100

92 62.8 49.8 74.6



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.455 min Scan# 2753

Delta R.T. 0.016 min

Lab File: VL039925.D

Acq: 22 Nov 2022 20:48

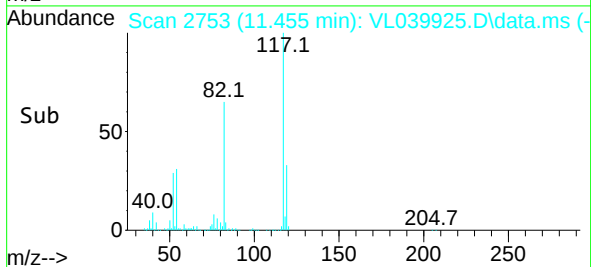
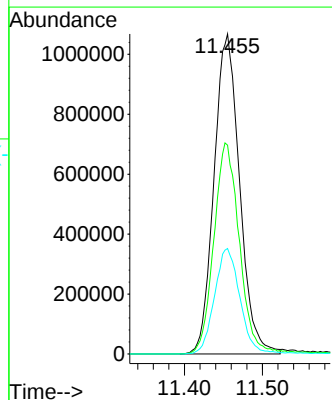
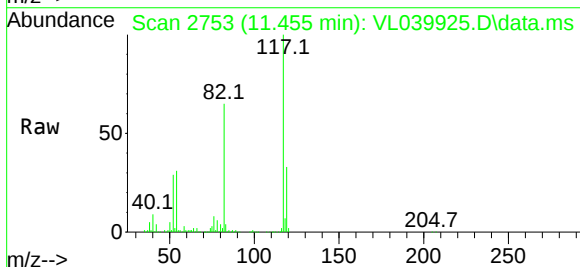
Tgt Ion: 117 Resp: 2433259

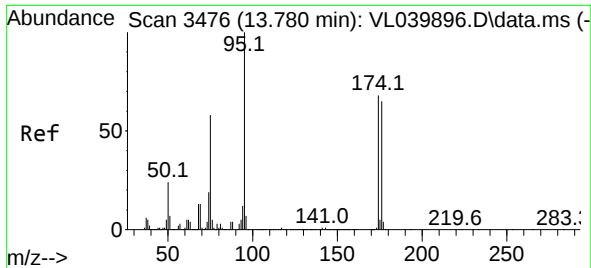
Ion Ratio Lower Upper

117 100

82 66.5 52.3 78.5

119 33.0 25.7 38.5





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.410 ppbv
 RT: 13.767 min Scan# 3472
 Delta R.T. 0.013 min
 Lab File: VL039925.D
 Acq: 22 Nov 2022 20:48

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL

Tgt Ion: 95 Resp: 1934736

Ion	Ratio	Lower	Upper
95	100		
174	62.4	53.7	80.5
175	4.4	4.0	6.0

