

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110922\
 Data File : VL039849.D
 Acq On : 9 Nov 2022 15:36
 Operator : SY/AP
 Sample : N5527-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 10053-BASEMENT-BAR

Quant Time: Nov 10 03:49:11 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110222AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Nov 03 09:27:12 2022
 Response via : Initial Calibration

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

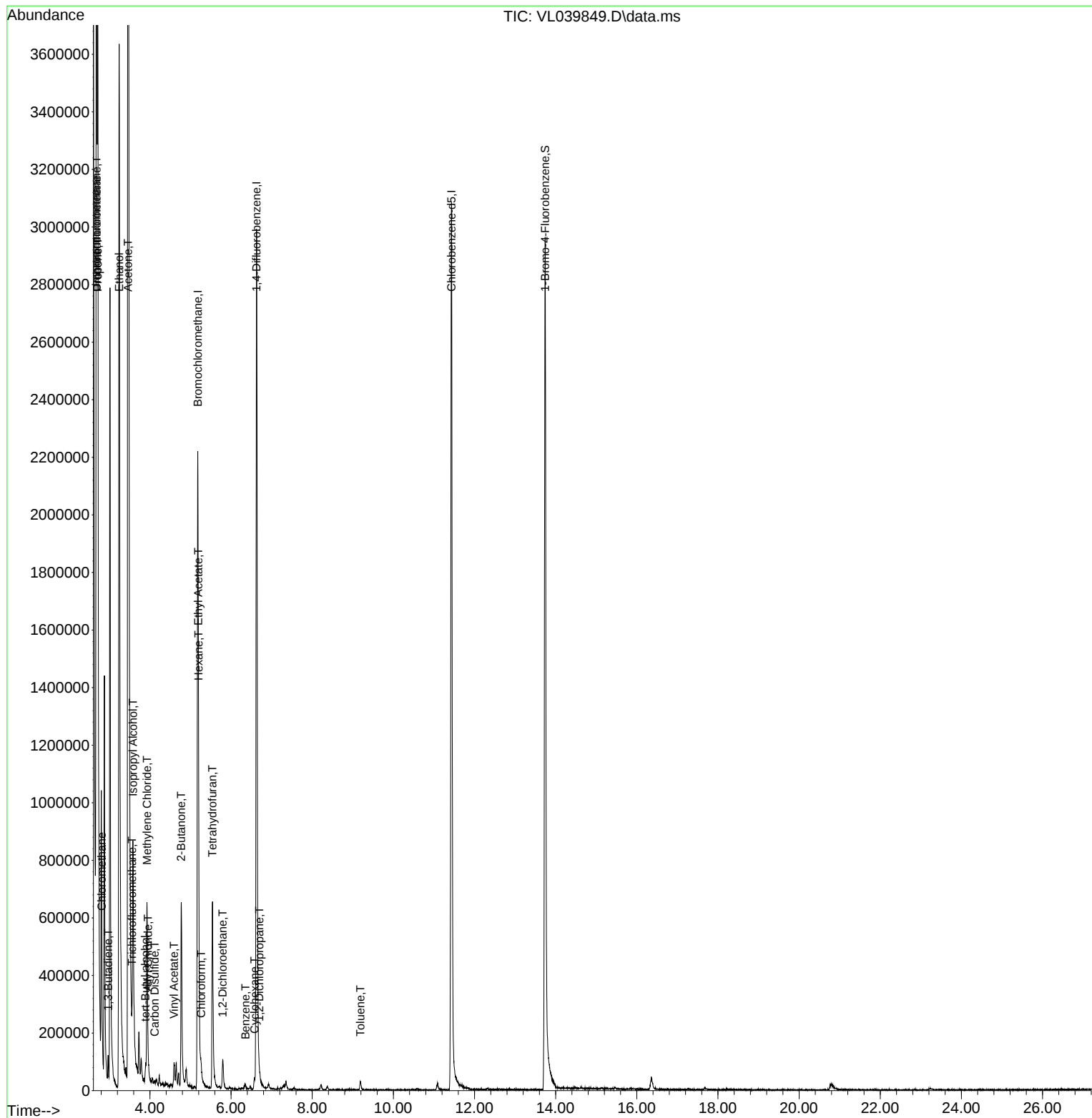
Internal Standards						
1) Bromochloromethane	5.179	49	1044497	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.629	114	2353035	10.000	ppbv	-0.02
55) Chlorobenzene-d5	11.432	117	2056218	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.741	95	1582883	10.285	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	= 102.800%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.680	85	140457	0.797	ppbv	97
3) Chlorodifluoromethane	2.680	51	8376054	67.266	ppbv #	90
4) Chloromethane	2.815	50	41580	0.536	ppbv	92
9) Propene	2.713	41	755063	11.638	ppbv #	59
11) Trichlorofluoromethane	3.558	101	31411	0.218	ppbv	92
13) Ethanol	3.243	45	4403548	960.364	ppbv	93
15) Acetone	3.462	43	10063196	79.153	ppbv	92
16) 1,3-Butadiene	2.970	39	19910	0.337	ppbv #	19
17) tert-Butyl alcohol	3.889	59	17925	0.148	ppbv #	70
19) Isopropyl Alcohol	3.581	45	893918	14.206	ppbv #	1
20) Methylene Chloride	3.931	84	218498	4.804	ppbv	90
21) Allyl Chloride	3.950	41	3634	0.045	ppbv #	1
23) Vinyl Acetate	4.594	43	8116	0.160	ppbv #	1
25) Ethyl Acetate	5.195	43	299841	1.145	ppbv #	93
26) Hexane	5.198	57	277863	2.380	ppbv #	55
27) Carbon Disulfide	4.121	76	11351	0.093	ppbv #	73
29) Chloroform	5.262	83	24615	0.150	ppbv	89
30) Cyclohexane	6.581	84	7766	0.080	ppbv #	23
34) 2-Butanone	4.770	43	779327	8.028	ppbv	98
36) Benzene	6.352	78	10256	0.052	ppbv #	89
37) 1,2-Dichloroethane	5.790	62	7924	0.083	ppbv #	75
39) 1,2-Dichloropropane	6.696	63	6242	0.081	ppbv #	32
41) Tetrahydrofuran	5.542	42	401496	4.949	ppbv	99
53) Toluene	9.185	91	16669	0.073	ppbv #	75

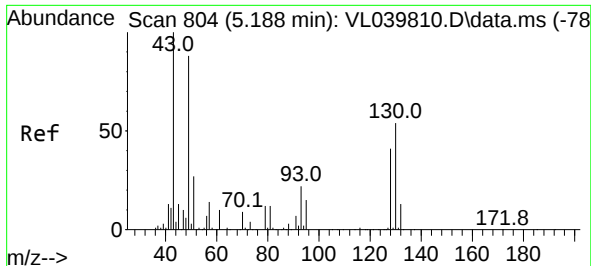
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.179 min Scan# 80

Delta R.T. -0.009 min

Lab File: VL039849.D

Acq: 9 Nov 2022 15:36

Instrument :

MSVOA_L

ClientSampleId :

10053-BASEMENT-BAR

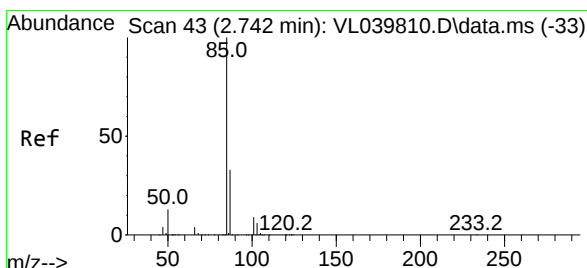
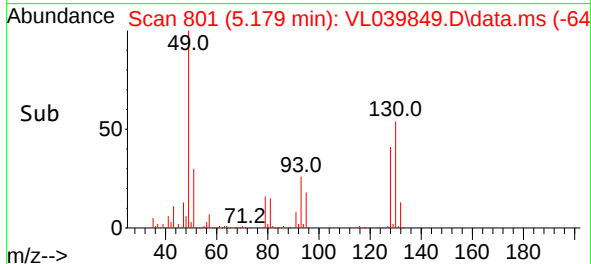
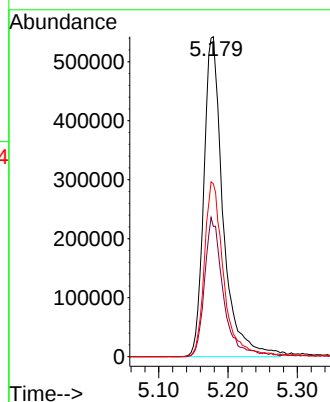
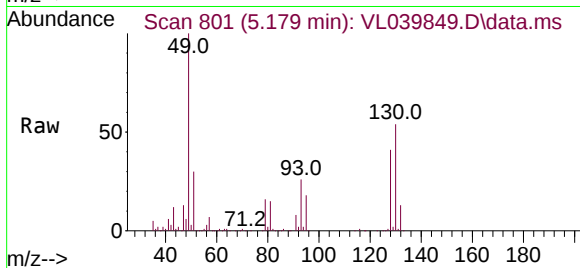
Tgt Ion: 49 Resp: 1044497

Ion Ratio Lower Upper

49 100

128 43.1 24.6 73.6

130 55.5 31.1 93.2



#2

Dichlorodifluoromethane

Concen: 0.797 ppbv

RT: 2.680 min Scan# 24

Delta R.T. -0.061 min

Lab File: VL039849.D

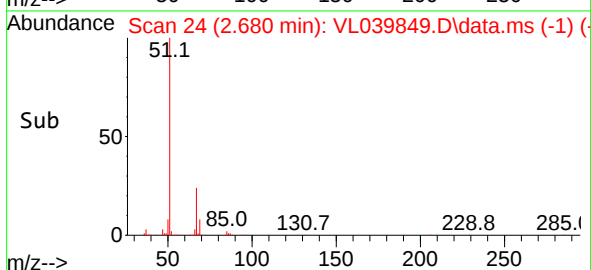
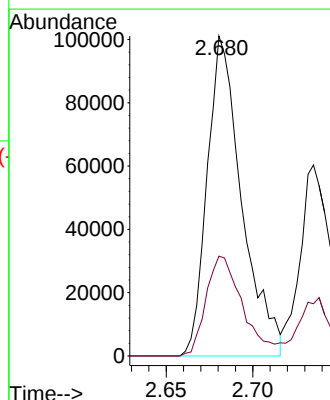
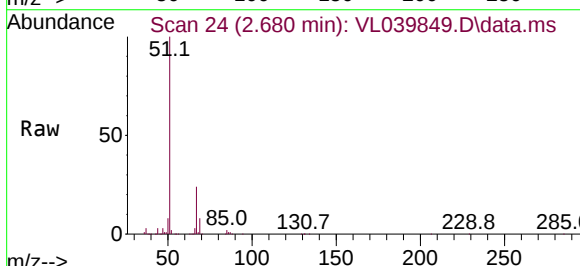
Acq: 9 Nov 2022 15:36

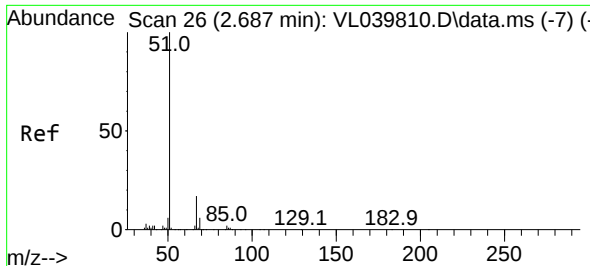
Tgt Ion: 85 Resp: 140457

Ion Ratio Lower Upper

85 100

87 31.2 26.4 39.6

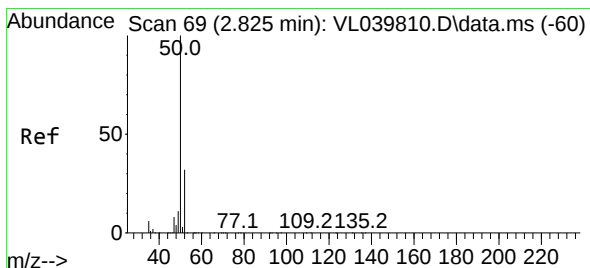
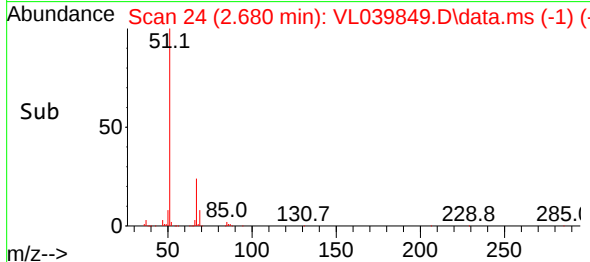
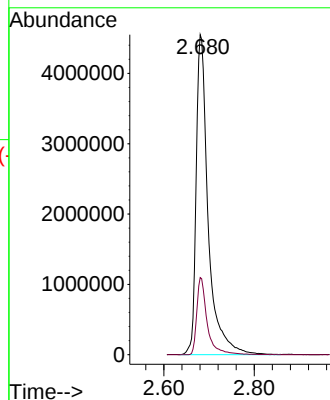
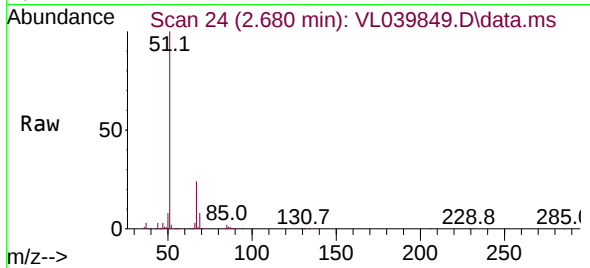




#3
Chlorodifluoromethane
Concen: 67.266 ppbv
RT: 2.680 min Scan# 24
Delta R.T. -0.007 min
Lab File: VL039849.D
Acq: 9 Nov 2022 15:36

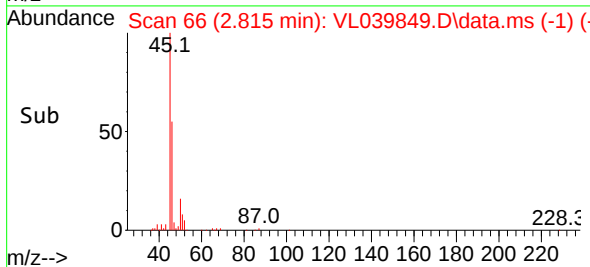
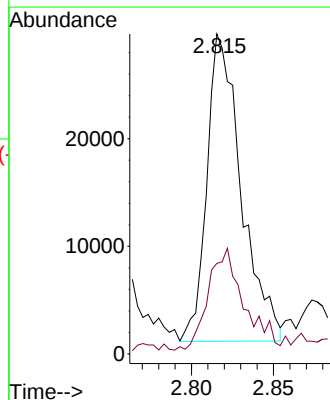
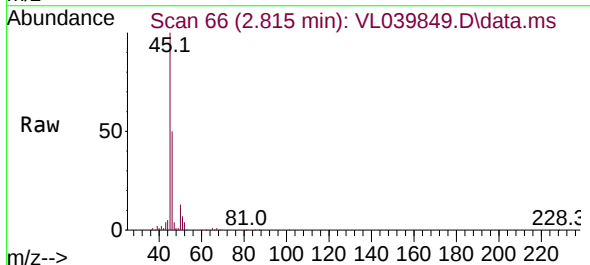
Instrument :
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ClientSampleId :
10053-BASEMENT-BAR

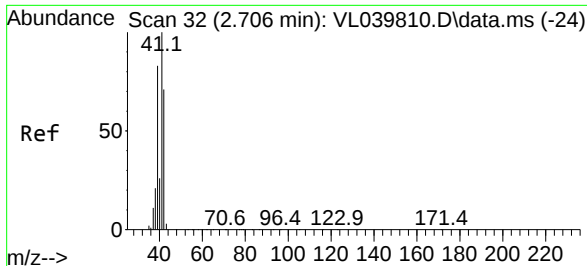
Tgt Ion: 51 Resp: 8376054
Ion Ratio Lower Upper
51 100
67 20.9 13.2 19.8#



#4
Chloromethane
Concen: 0.536 ppbv
RT: 2.815 min Scan# 66
Delta R.T. -0.010 min
Lab File: VL039849.D
Acq: 9 Nov 2022 15:36

Tgt Ion: 50 Resp: 41580
Ion Ratio Lower Upper
50 100
52 27.2 25.5 38.3

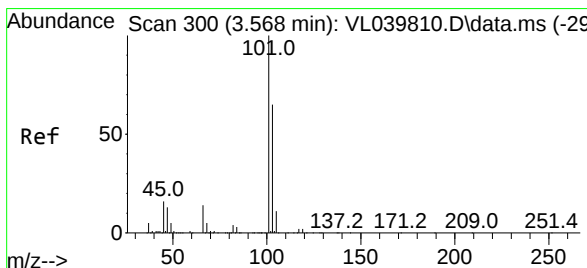
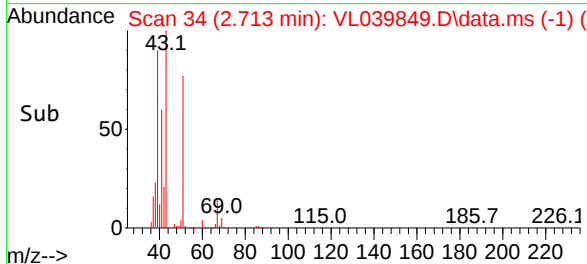
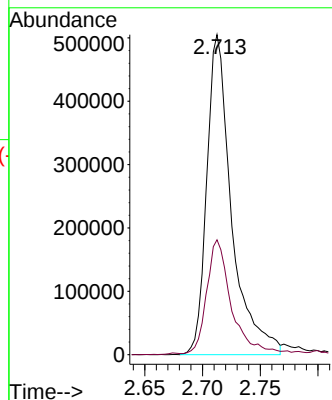
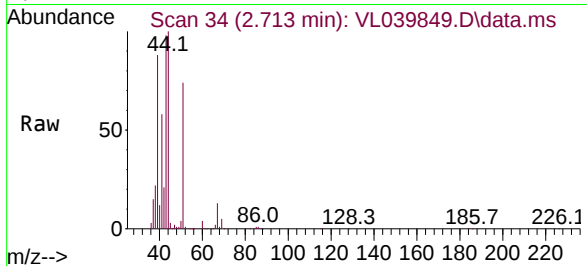




#9
Propene
Concen: 11.638 ppbv
RT: 2.713 min Scan# 34
Delta R.T. 0.006 min
Lab File: VL039849.D
Acq: 9 Nov 2022 15:36

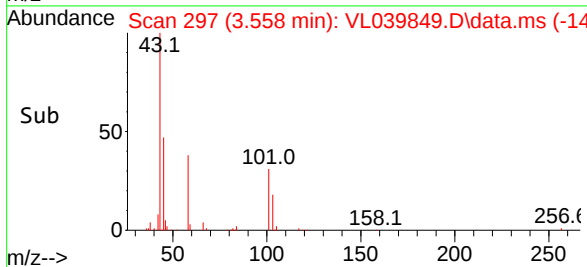
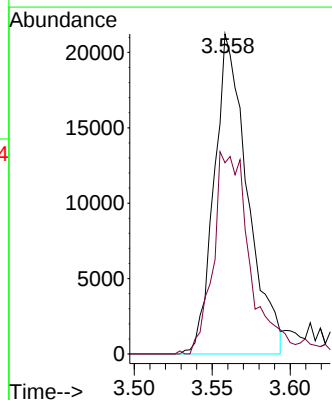
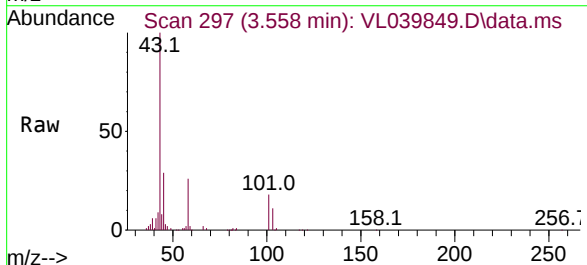
Instrument :
MSVOA_L
ClientSampleId :
10053-BASEMENT-BAR

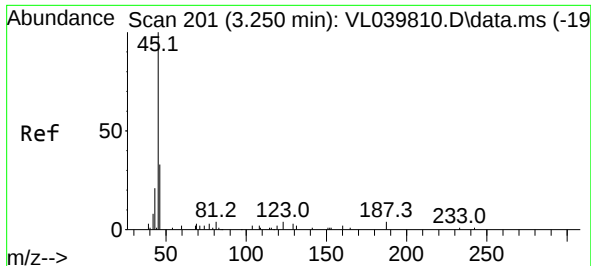
Tgt Ion: 41 Resp: 755063
Ion Ratio Lower Upper
41 100
42 36.9 56.3 84.5#



#11
Trichlorofluoromethane
Concen: 0.218 ppbv
RT: 3.558 min Scan# 297
Delta R.T. -0.010 min
Lab File: VL039849.D
Acq: 9 Nov 2022 15:36

Tgt Ion:101 Resp: 31411
Ion Ratio Lower Upper
101 100
103 58.8 52.2 78.2

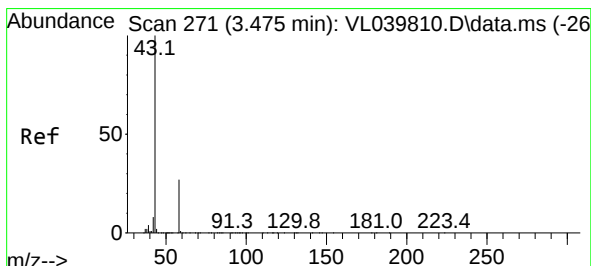
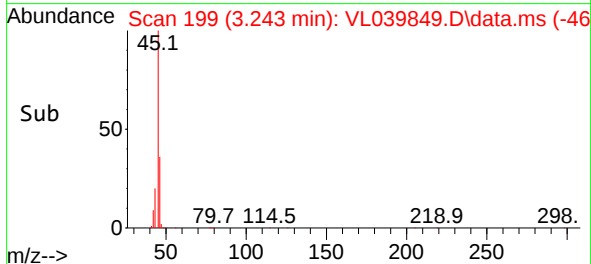
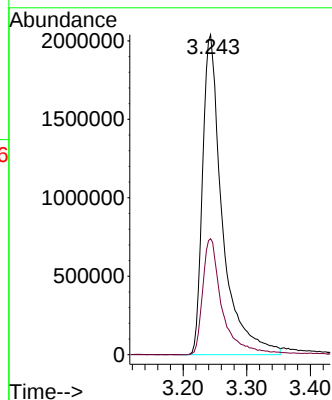
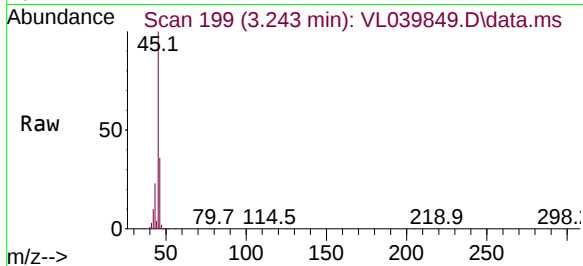




#13
Ethanol
Concen: 960.364 ppbv
RT: 3.243 min Scan# 199
Delta R.T. -0.007 min
Lab File: VL039849.D
Acq: 9 Nov 2022 15:36

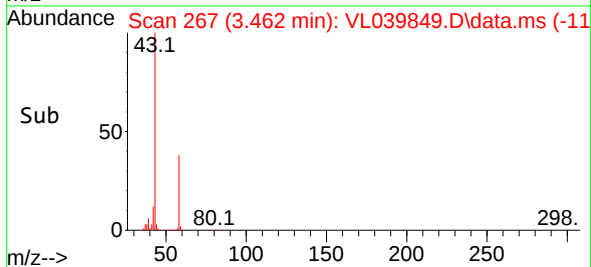
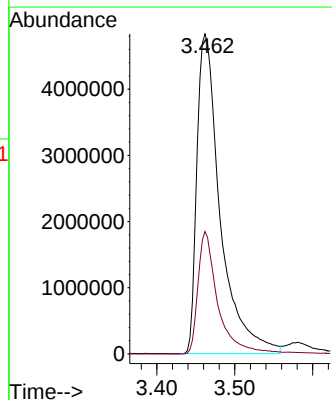
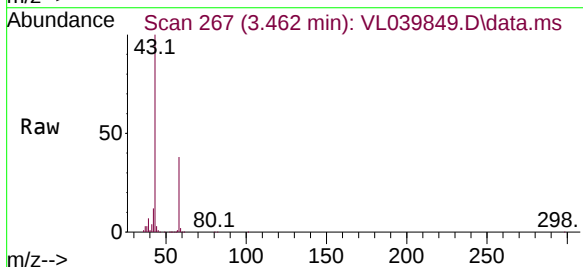
Instrument :
MSVOA_L
ClientSampleId :
10053-BASEMENT-BAR

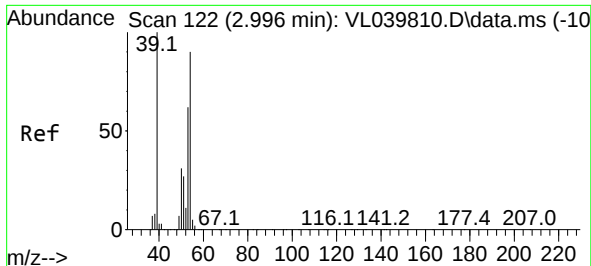
Tgt Ion: 45 Resp: 4403548
Ion Ratio Lower Upper
45 100
46 36.7 16.5 65.9



#15
Acetone
Concen: 79.153 ppbv
RT: 3.462 min Scan# 267
Delta R.T. -0.013 min
Lab File: VL039849.D
Acq: 9 Nov 2022 15:36

Tgt Ion: 43 Resp:10063196
Ion Ratio Lower Upper
43 100
58 33.4 23.2 34.8





#16

1,3-Butadiene

Concen: 0.337 ppbv

RT: 2.970 min Scan# 114

Delta R.T. -0.026 min

Lab File: VL039849.D

Acq: 9 Nov 2022 15:36

Instrument :

MSVOA_L

ClientSampleId :

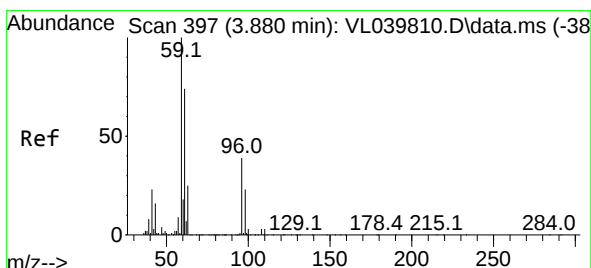
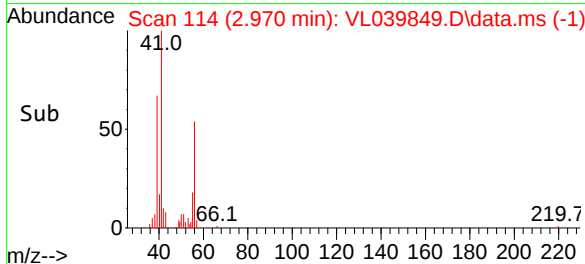
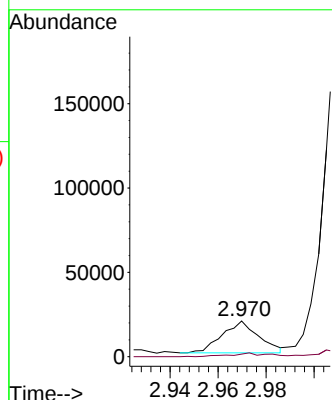
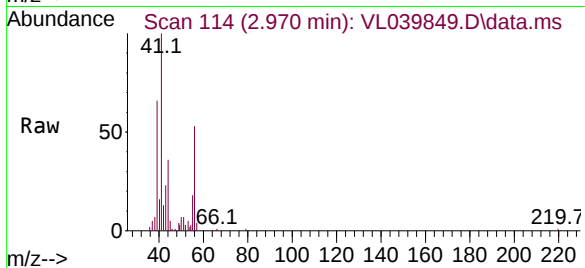
10053-BASEMENT-BAR

Tgt Ion: 39 Resp: 19910

Ion Ratio Lower Upper

39 100

54 12.9 71.0 106.4#



#17

tert-Butyl alcohol

Concen: 0.148 ppbv

RT: 3.889 min Scan# 400

Delta R.T. 0.010 min

Lab File: VL039849.D

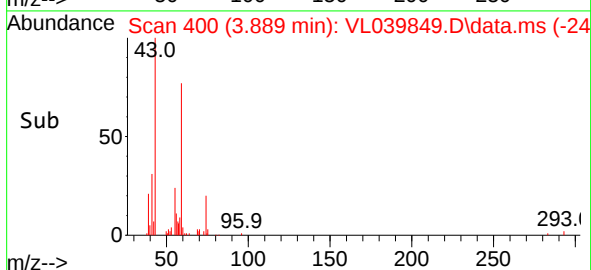
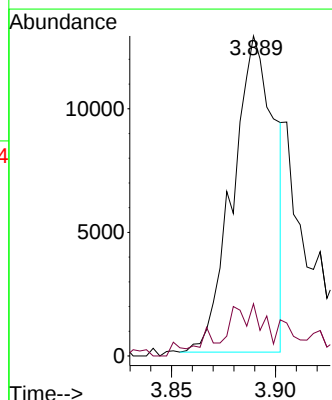
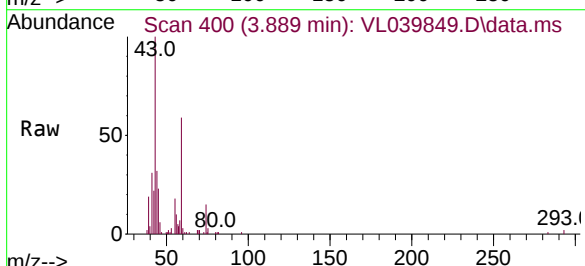
Acq: 9 Nov 2022 15:36

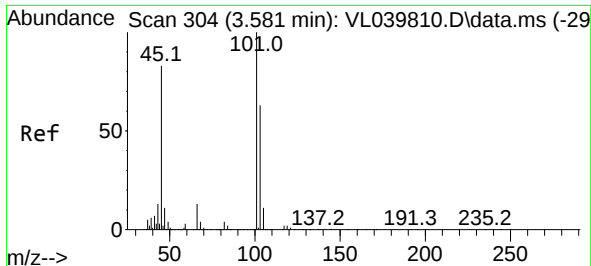
Tgt Ion: 59 Resp: 17925

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.6#





#19

Isopropyl Alcohol

Concen: 14.206 ppbv

RT: 3.581 min Scan# 304

Delta R.T. -0.000 min

Lab File: VL039849.D

Acq: 9 Nov 2022 15:36

Instrument :

MSVOA_L

ClientSampleId :

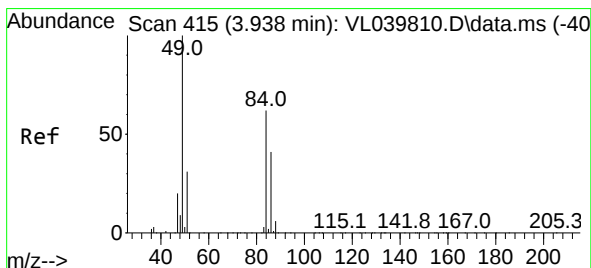
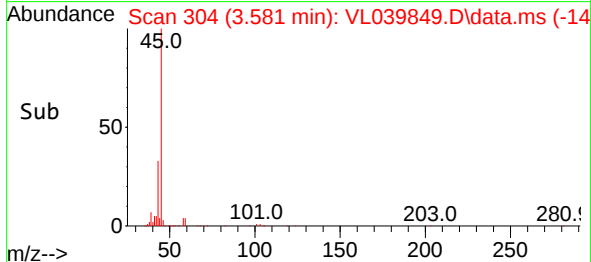
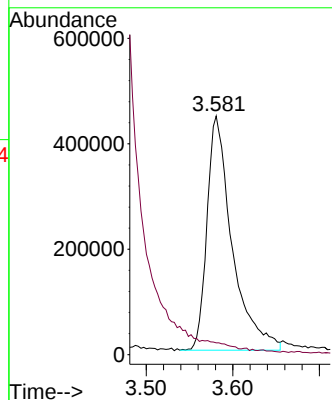
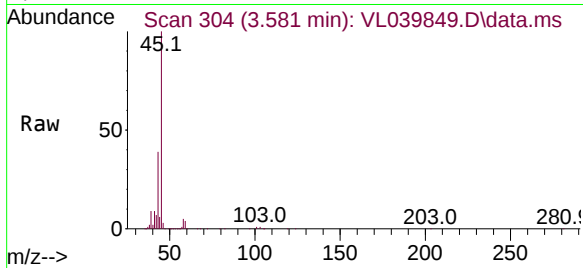
10053-BASEMENT-BAR

Tgt Ion: 45 Resp: 893918

Ion Ratio Lower Upper

45 100

58 375.6 38.3 57.5#



#20

Methylene Chloride

Concen: 4.804 ppbv

RT: 3.931 min Scan# 413

Delta R.T. -0.007 min

Lab File: VL039849.D

Acq: 9 Nov 2022 15:36

Tgt Ion: 84 Resp: 218498

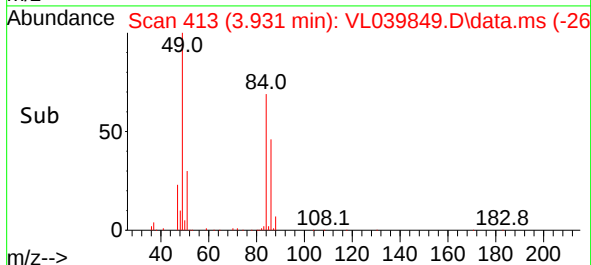
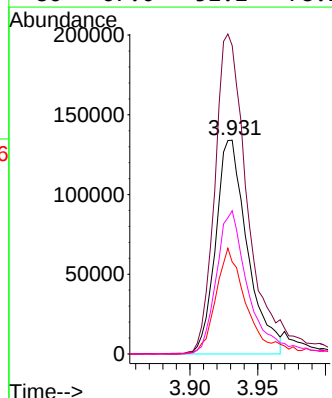
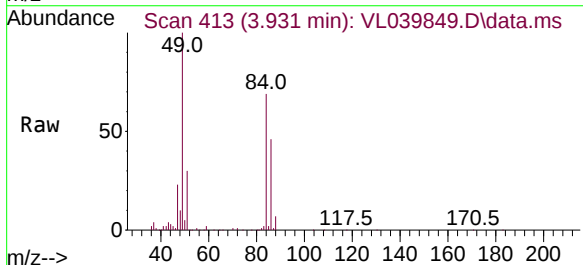
Ion Ratio Lower Upper

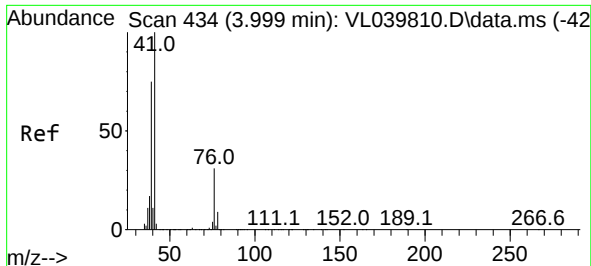
84 100

49 144.1 128.6 192.8

51 42.7 40.2 60.4

86 67.0 52.2 78.2

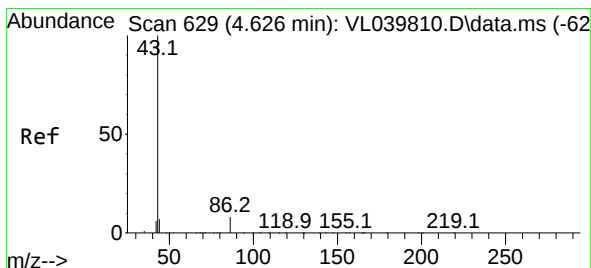
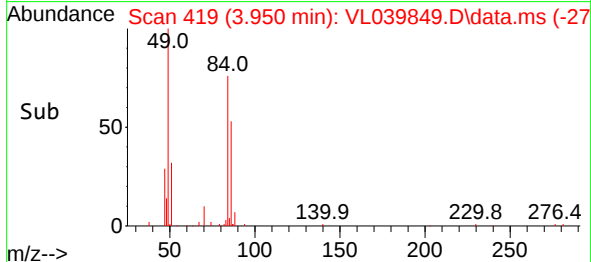
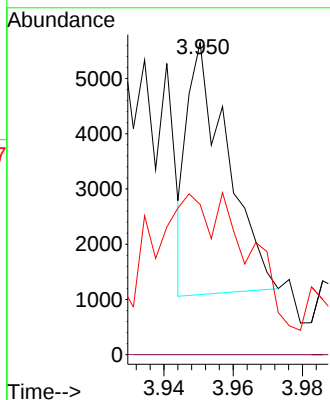
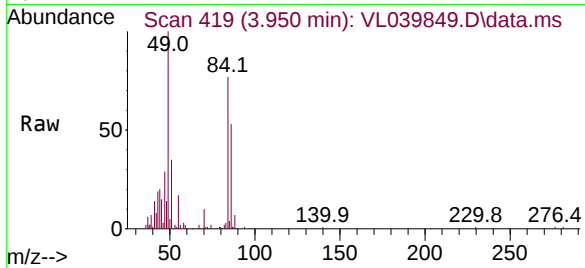




#21
 Allyl Chloride
 Concen: 0.045 ppbv
 RT: 3.950 min Scan# 41
 Delta R.T. -0.048 min
 Lab File: VL039849.D
 Acq: 9 Nov 2022 15:36

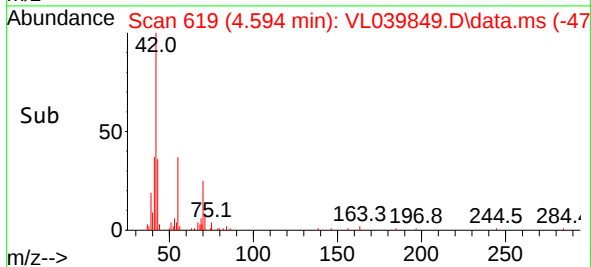
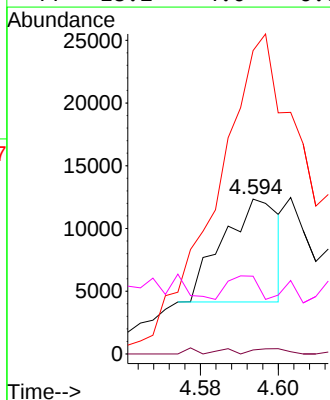
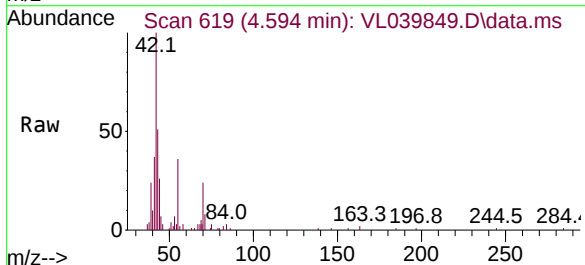
Instrument :
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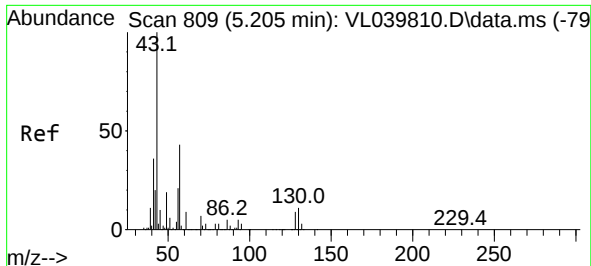
Tgt Ion: 41 Resp: 3634
 Ion Ratio Lower Upper
 41 100
 76 331.0 24.1 36.1#
 39 86.1 64.3 96.5



#23
 Vinyl Acetate
 Concen: 0.160 ppbv
 RT: 4.594 min Scan# 619
 Delta R.T. -0.032 min
 Lab File: VL039849.D
 Acq: 9 Nov 2022 15:36

Tgt Ion: 43 Resp: 8116
 Ion Ratio Lower Upper
 43 100
 86 3.9 5.0 7.4#
 42 234.9 6.8 10.2#
 44 18.2 4.0 6.0#

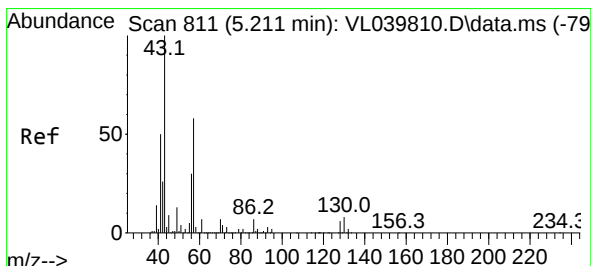
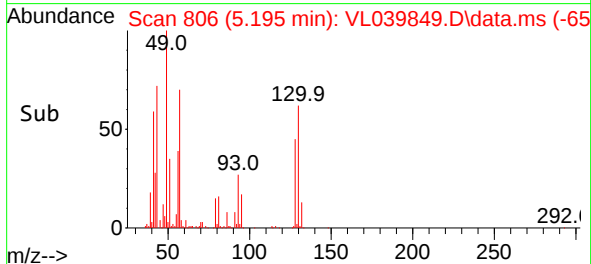
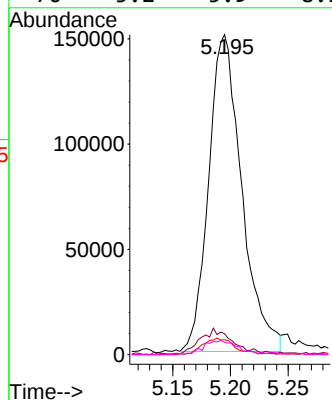
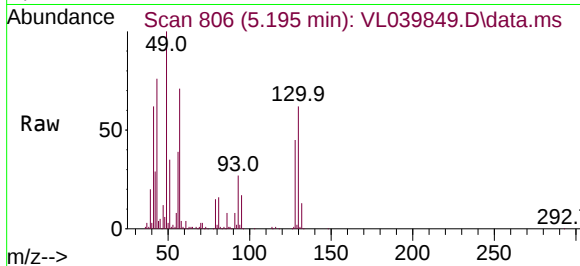




#25
Ethyl Acetate
Concen: 1.145 ppbv
RT: 5.195 min Scan# 806
Delta R.T. -0.010 min
Lab File: VL039849.D
Acq: 9 Nov 2022 15:36

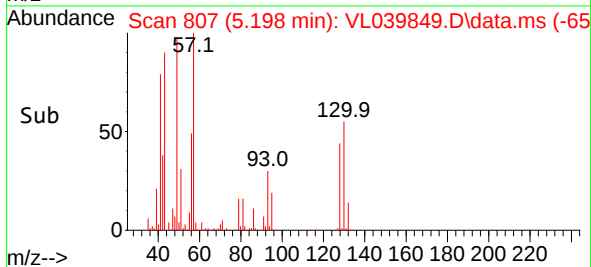
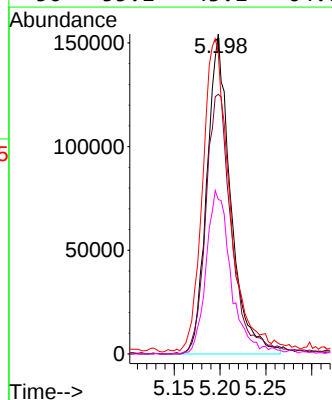
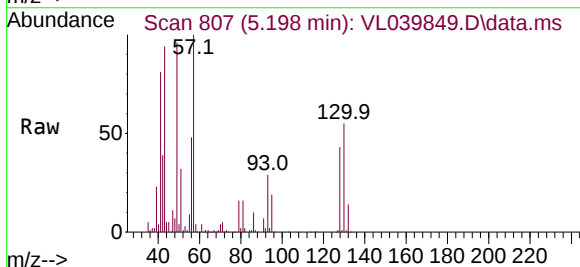
Instrument :
MSVOA_L
ClientSampleId :
10053-BASEMENT-BAR

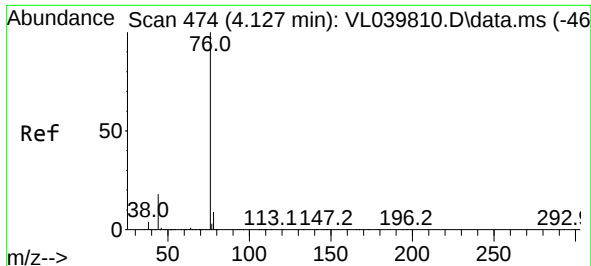
Tgt Ion: 43 Resp: 299841
Ion Ratio Lower Upper
43 100
45 9.4 8.2 12.2
61 5.3 8.1 12.1#
70 5.2 5.9 8.9#



#26
Hexane
Concen: 2.380 ppbv
RT: 5.198 min Scan# 807
Delta R.T. -0.013 min
Lab File: VL039849.D
Acq: 9 Nov 2022 15:36

Tgt Ion: 57 Resp: 277863
Ion Ratio Lower Upper
57 100
41 89.8 73.7 110.5
43 116.4 189.8 284.8#
56 55.1 43.1 64.7





#27

Carbon Disulfide

Concen: 0.093 ppbv

RT: 4.121 min Scan# 41

Delta R.T. -0.007 min

Lab File: VL039849.D

Acq: 9 Nov 2022 15:36

Instrument :

MSVOA_L

ClientSampleId :

10053-BASEMENT-BAR

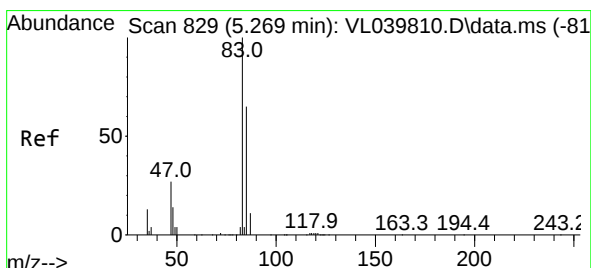
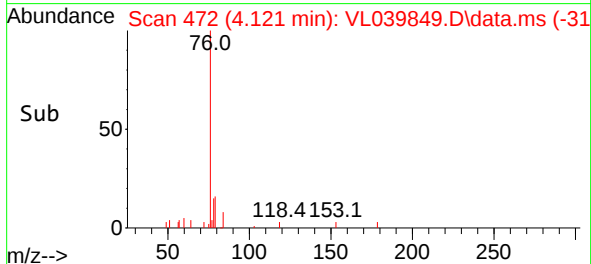
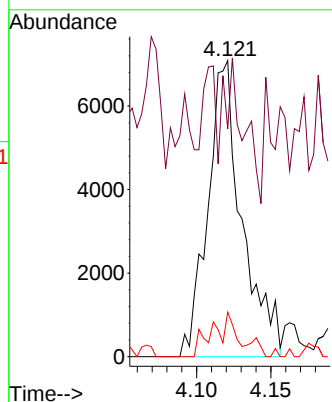
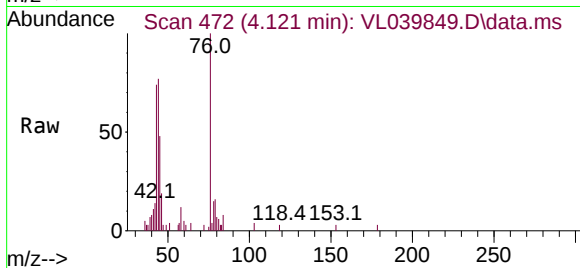
Tgt Ion: 76 Resp: 11351

Ion Ratio Lower Upper

76 100

44 34.8 14.6 22.0#

78 12.3 7.6 11.4#



#29

Chloroform

Concen: 0.150 ppbv

RT: 5.262 min Scan# 827

Delta R.T. -0.007 min

Lab File: VL039849.D

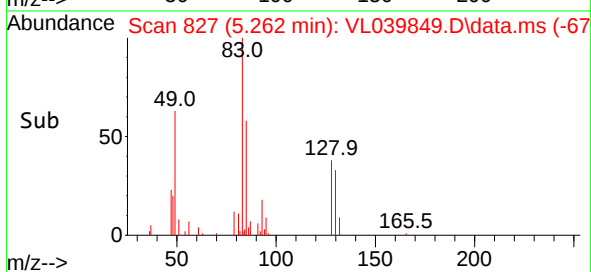
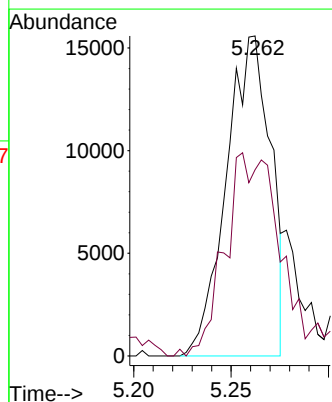
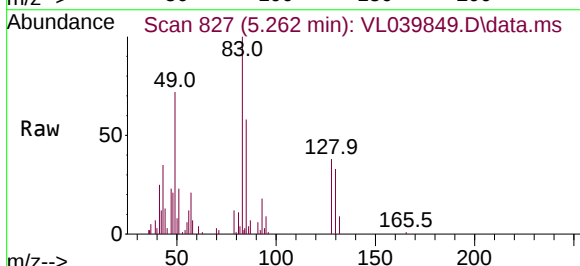
Acq: 9 Nov 2022 15:36

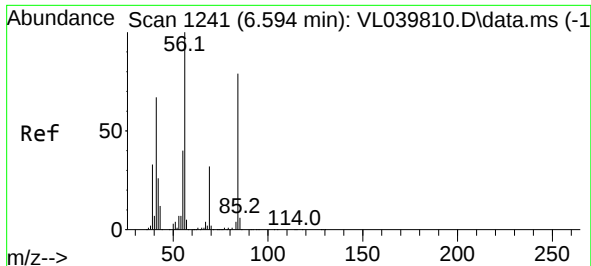
Tgt Ion: 83 Resp: 24615

Ion Ratio Lower Upper

83 100

85 56.1 51.6 77.4

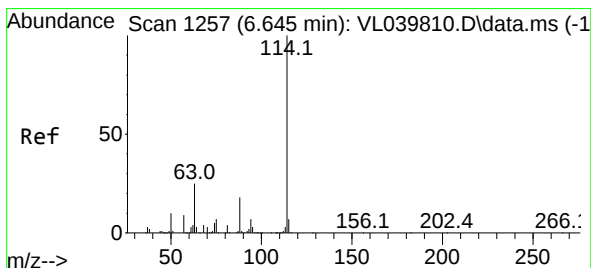
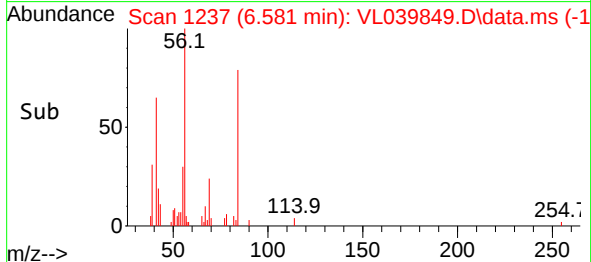
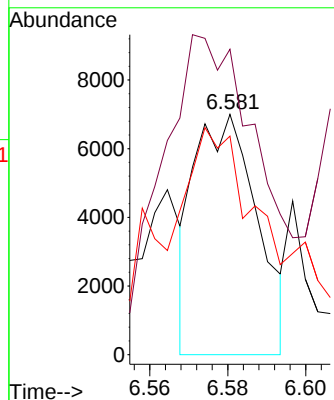
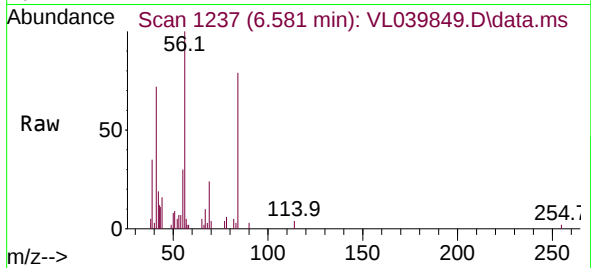




#30
Cyclohexane
Concen: 0.080 ppbv
RT: 6.581 min Scan# 1237
Delta R.T. -0.013 min
Lab File: VL039849.D
Acq: 9 Nov 2022 15:36

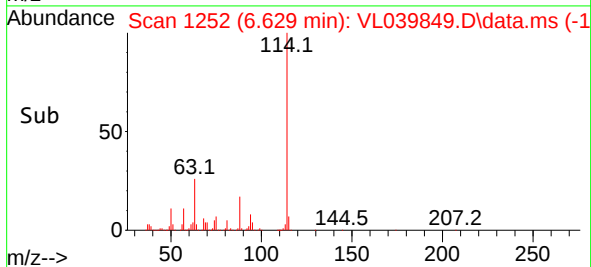
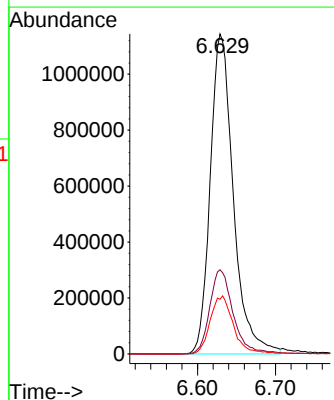
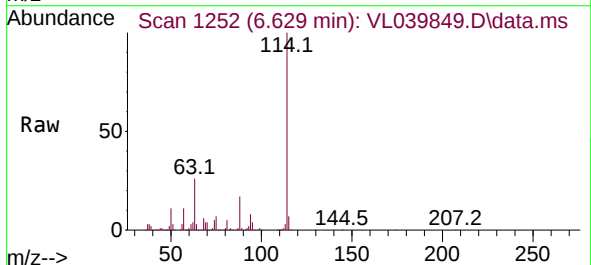
Instrument :
MSVOA_L
ClientSampleId :
10053-BASEMENT-BAR

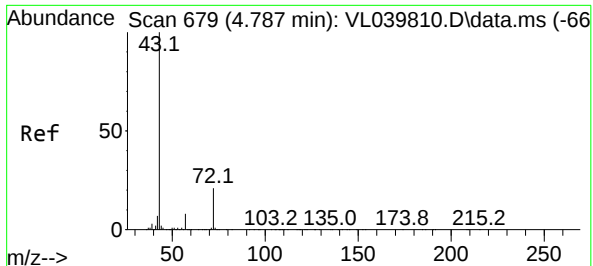
Tgt Ion: 84 Resp: 7766
Ion Ratio Lower Upper
84 100
56 218.2 114.8 172.2#
41 181.7 68.6 103.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.629 min Scan# 1252
Delta R.T. -0.016 min
Lab File: VL039849.D
Acq: 9 Nov 2022 15:36

Tgt Ion: 114 Resp: 2353035
Ion Ratio Lower Upper
114 100
63 27.1 19.8 29.6
88 18.6 14.4 21.6

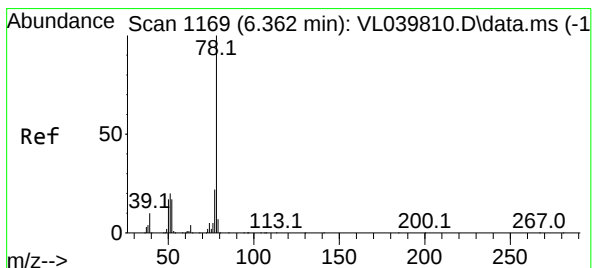
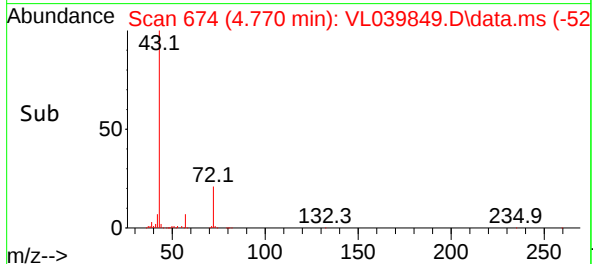
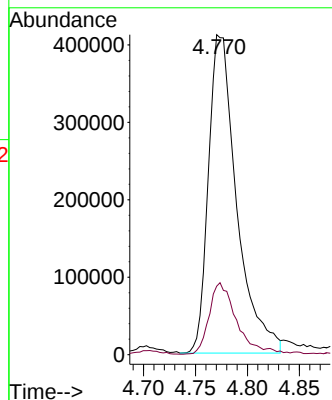
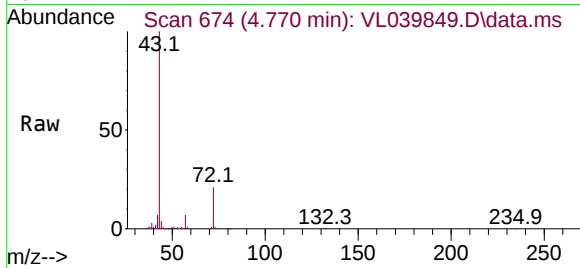




#34
2-Butanone
Concen: 8.028 ppbv
RT: 4.770 min Scan# 61
Delta R.T. -0.016 min
Lab File: VL039849.D
Acq: 9 Nov 2022 15:36

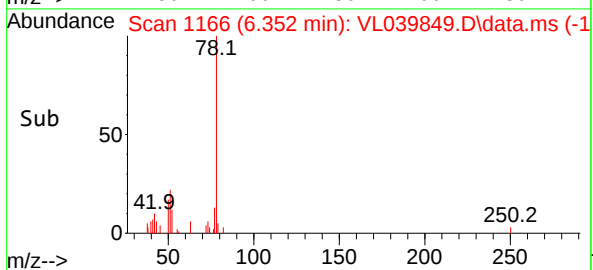
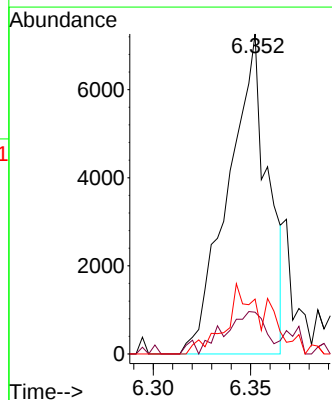
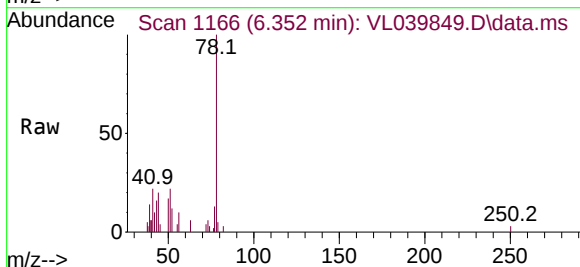
Instrument :
MSVOA_L
ClientSampleId :
10053-BASEMENT-BAR

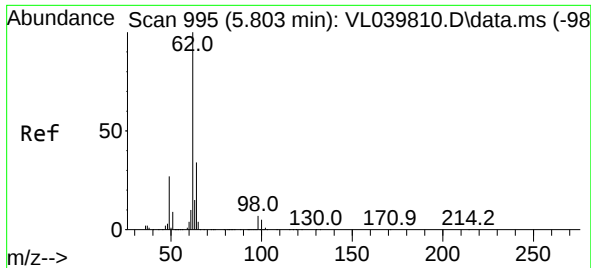
Tgt Ion: 43 Resp: 779327
Ion Ratio Lower Upper
43 100
72 22.9 17.5 26.3



#36
Benzene
Concen: 0.052 ppbv
RT: 6.352 min Scan# 1166
Delta R.T. -0.010 min
Lab File: VL039849.D
Acq: 9 Nov 2022 15:36

Tgt Ion: 78 Resp: 10256
Ion Ratio Lower Upper
78 100
77 13.1 17.4 26.2#
50 17.1 13.9 20.9

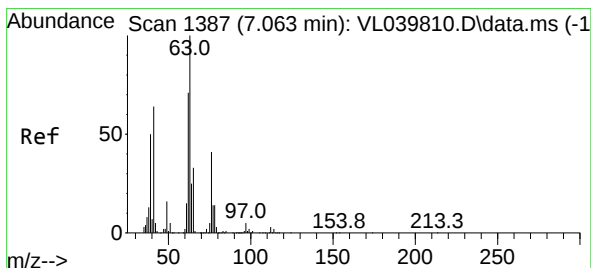
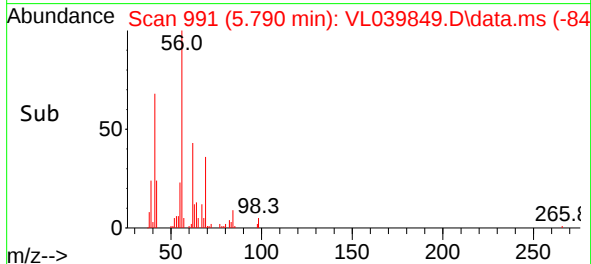
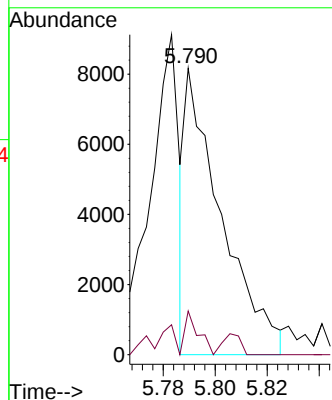
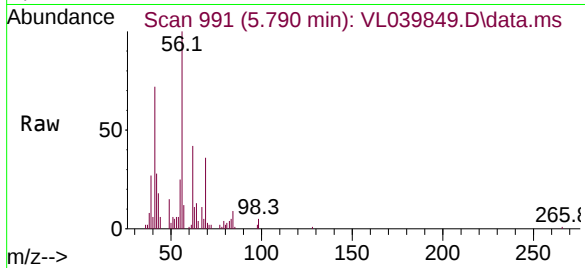




#37
1,2-Dichloroethane
Concen: 0.083 ppbv
RT: 5.790 min Scan# 91
Delta R.T. -0.013 min
Lab File: VL039849.D
Acq: 9 Nov 2022 15:36

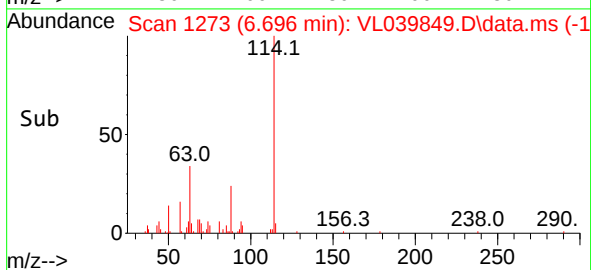
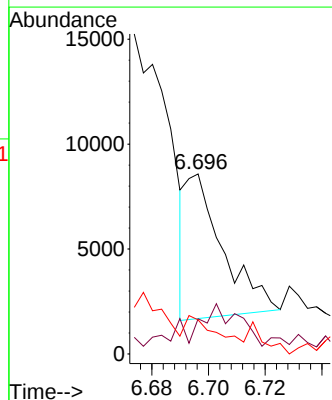
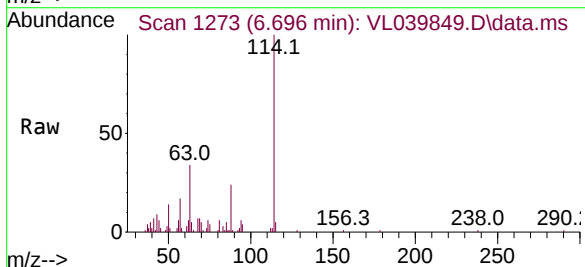
Instrument :
MSVOA_L
ClientSampleId :
10053-BASEMENT-BAR

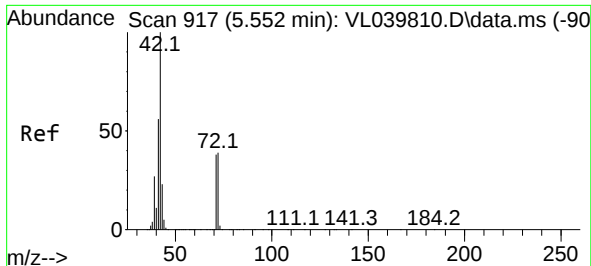
Tgt Ion: 62 Resp: 7924
Ion Ratio Lower Upper
62 100
98 15.4 5.4 8.2#



#39
1,2-Dichloropropane
Concen: 0.081 ppbv
RT: 6.696 min Scan# 1273
Delta R.T. -0.367 min
Lab File: VL039849.D
Acq: 9 Nov 2022 15:36

Tgt Ion: 63 Resp: 6242
Ion Ratio Lower Upper
63 100
41 8.3 51.0 76.4#
62 17.3 56.6 85.0#





#41

Tetrahydrofuran

Concen: 4.949 ppbv

RT: 5.542 min Scan# 917

Delta R.T. -0.010 min

Lab File: VL039849.D

Acq: 9 Nov 2022 15:36

Instrument :

MSVOA_L

ClientSampleId :

10053-BASEMENT-BAR

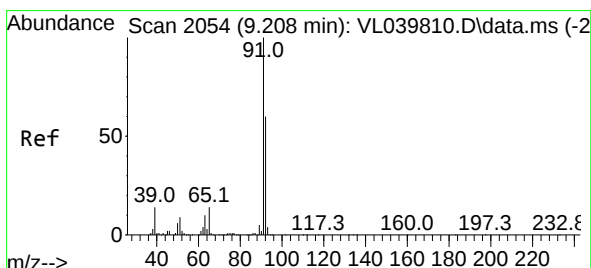
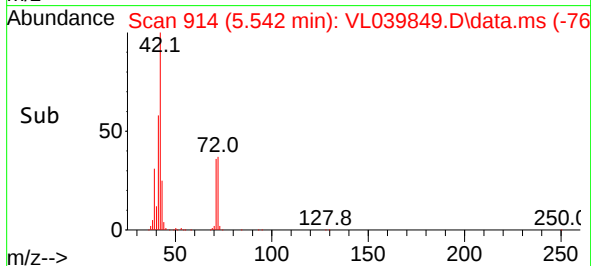
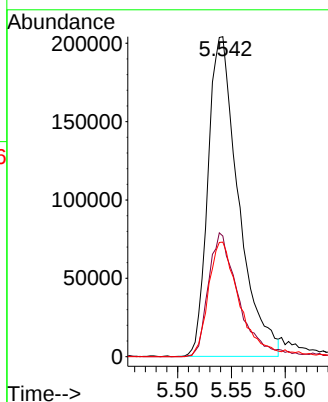
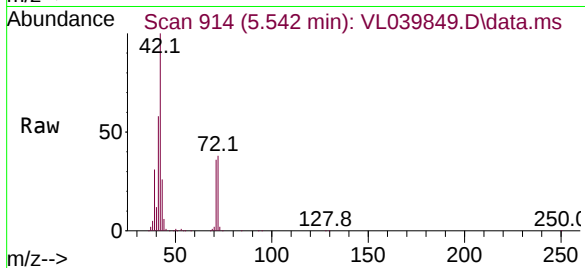
Tgt Ion: 42 Resp: 401496

Ion Ratio Lower Upper

42 100

72 39.1 31.4 47.2

71 37.9 31.5 47.3



#53

Toluene

Concen: 0.073 ppbv

RT: 9.185 min Scan# 2047

Delta R.T. -0.023 min

Lab File: VL039849.D

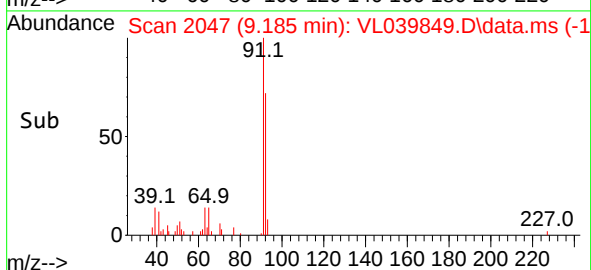
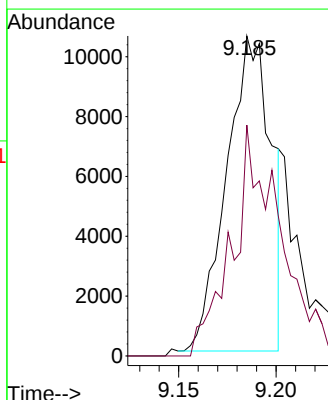
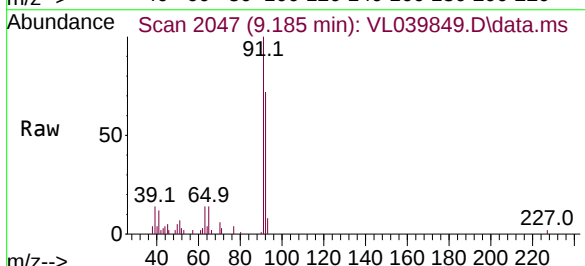
Acq: 9 Nov 2022 15:36

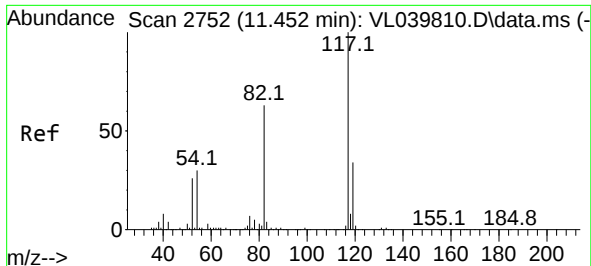
Tgt Ion: 91 Resp: 16669

Ion Ratio Lower Upper

91 100

92 81.5 49.6 74.4#

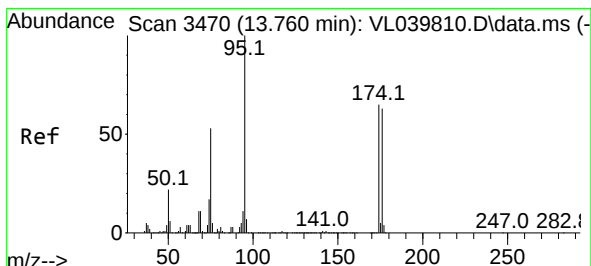
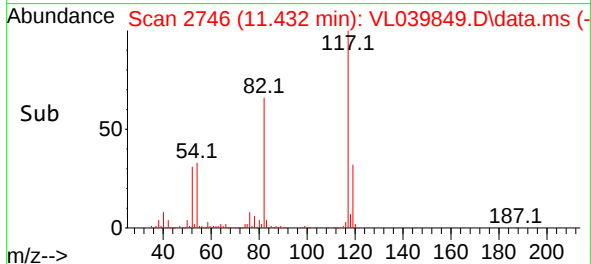
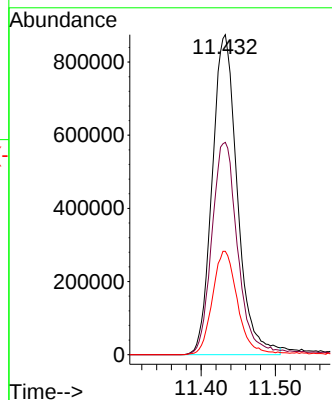
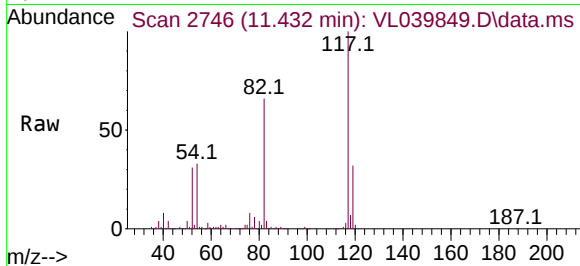




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.432 min Scan# 21
Delta R.T. -0.019 min
Lab File: VL039849.D
Acq: 9 Nov 2022 15:36

Instrument :
MSVOA_L
ClientSampleId :
10053-BASEMENT-BAR

Tgt Ion:117 Resp: 2056218
Ion Ratio Lower Upper
117 100
82 69.7 51.0 76.6
119 33.2 24.7 37.1



#68
1-Bromo-4-Fluorobenzene
Concen: 10.285 ppbv
RT: 13.741 min Scan# 3464
Delta R.T. -0.019 min
Lab File: VL039849.D
Acq: 9 Nov 2022 15:36

Tgt Ion: 95 Resp: 1582883
Ion Ratio Lower Upper
95 100
174 63.2 53.4 80.0
175 4.5 4.1 6.1

