

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110722\
 Data File : VL039838.D
 Acq On : 7 Nov 2022 13:42
 Operator : SY/AP
 Sample : N4526-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 E058-1100

Quant Time: Nov 08 06:13:39 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	5.198	49	1010753	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.655	114	2550925	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	2340041	10.000	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	1754135	10.015	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.100%

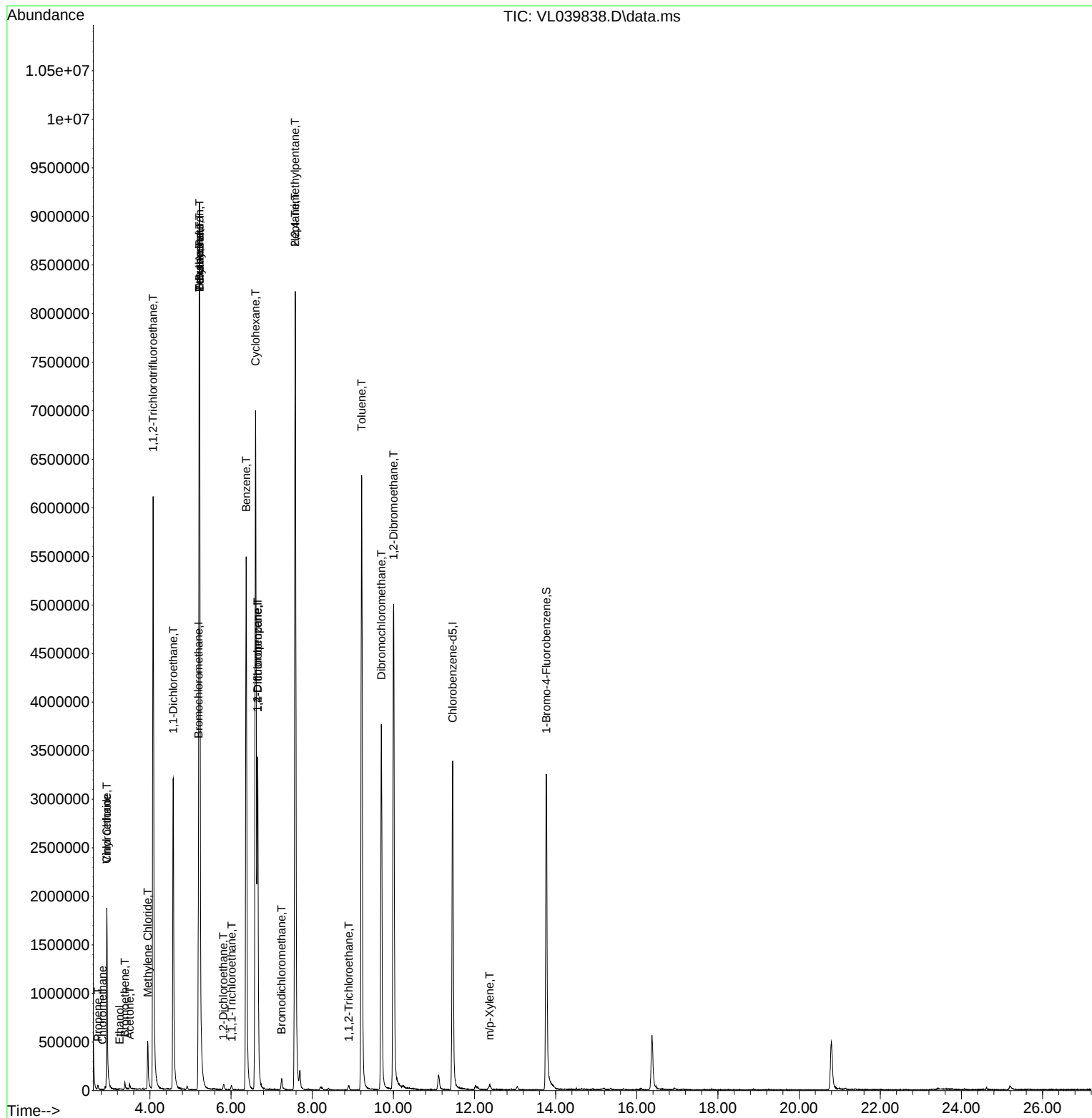
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Chloromethane	2.832	50	2430	0.032	ppbv #	69
5) Vinyl Chloride	2.938	62	1744278	28.716	ppbv	96
7) Chloroethane	2.938	64	556102	24.430	ppbv #	43
9) Propene	2.722	41	6983	0.111	ppbv #	82
10) Heptane	7.581	43	4387028	29.169	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.079	101	2508125	24.953	ppbv	98
13) Ethanol	3.256	45	719	0.162	ppbv #	34
14) Bromoethene	3.382	108	35700	0.793	ppbv #	86
15) Acetone	3.501	43	59106	0.480	ppbv	91
20) Methylene Chloride	3.947	84	188277	4.278	ppbv	93
24) 1,1-Dichloroethane	4.574	63	3022174	30.187	ppbv	100
25) Ethyl Acetate	5.221	43	2938193	11.594	ppbv #	75
26) Hexane	5.221	57	4255600	37.663	ppbv #	37
30) Cyclohexane	6.603	84	2783531	29.460	ppbv	93
32) 1,1,1-Trichloroethane	6.015	97	8874	0.056	ppbv #	22
34) 2-Butanone	5.221	43	2875037	27.320	ppbv #	55
36) Benzene	6.372	78	5069686	23.560	ppbv	96
37) 1,2-Dichloroethane	5.809	62	13958	0.135	ppbv #	93
39) 1,2-Dichloropropane	6.655	63	629086	7.503	ppbv #	35
41) Tetrahydrofuran	5.221	42	1558019	17.715	ppbv #	50
42) Bromodichloromethane	7.246	83	77339	0.469	ppbv	98
44) 2,2,4-Trimethylpentane	7.581	57	2237508	6.160	ppbv #	44
47) 1,1,2-Trichloroethane	8.899	97	6050	0.071	ppbv #	79
48) Dibromochloromethane	9.703	129	2437946	16.853	ppbv	99
53) Toluene	9.217	91	5534173	22.418	ppbv	97
54) 1,2-Dibromoethane	10.005	107	4648024	49.332	ppbv	98
59) m/p-Xylene	12.372	91	10878	0.041	ppbv #	1

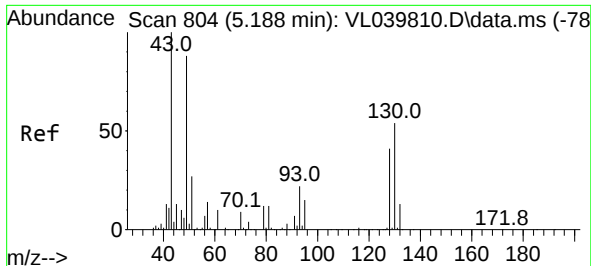
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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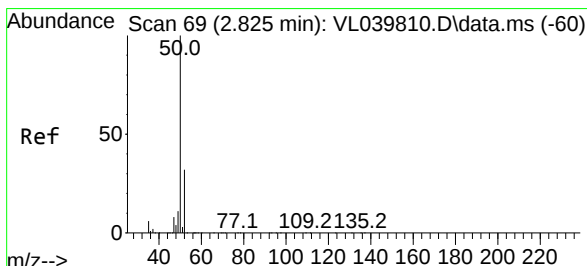
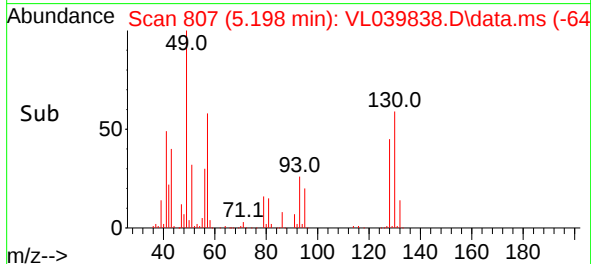
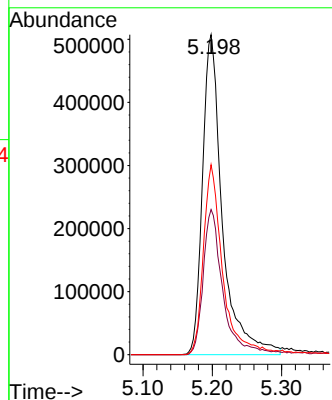
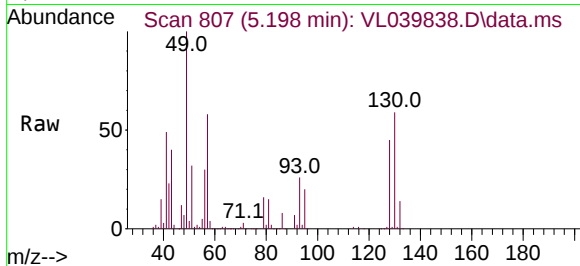




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.198 min Scan# 80
Delta R.T. 0.010 min
Lab File: VL039838.D
Acq: 7 Nov 2022 13:42

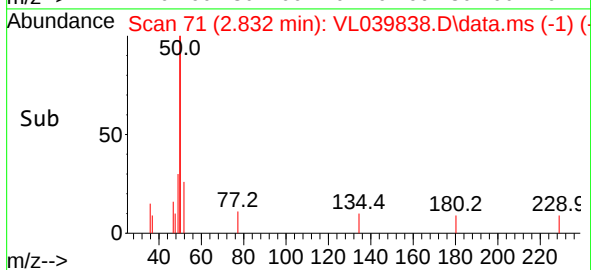
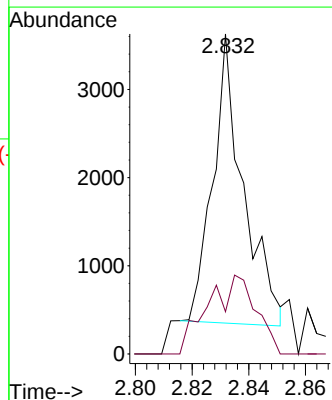
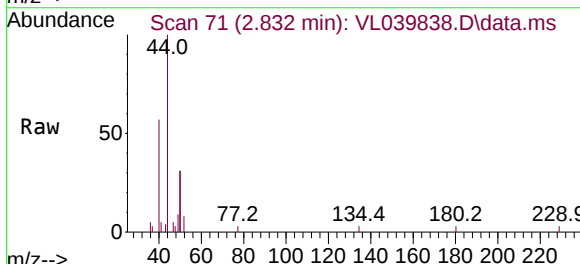
Instrument :
MSVOA_L
ClientSampleId :
E058-1100

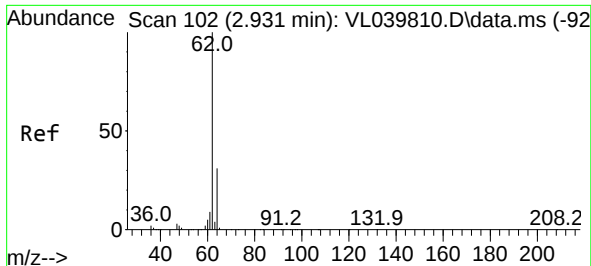
Tgt Ion: 49 Resp: 1010753
Ion Ratio Lower Upper
49 100
128 46.1 24.6 73.6
130 58.9 31.1 93.2



#4
Chloromethane
Concen: 0.032 ppbv
RT: 2.832 min Scan# 71
Delta R.T. 0.007 min
Lab File: VL039838.D
Acq: 7 Nov 2022 13:42

Tgt Ion: 50 Resp: 2430
Ion Ratio Lower Upper
50 100
52 14.7 25.5 38.3#

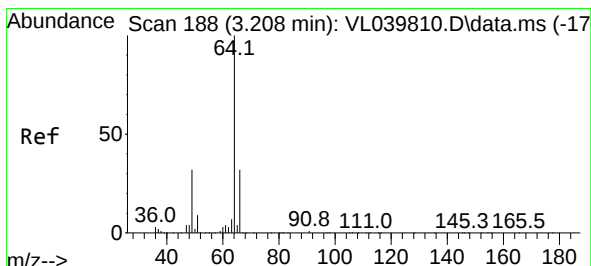
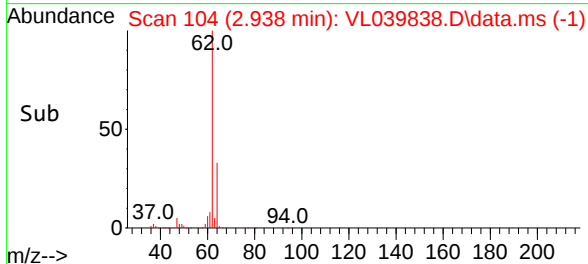
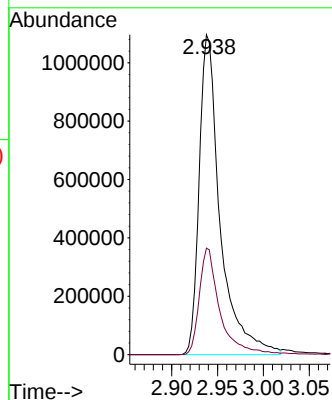
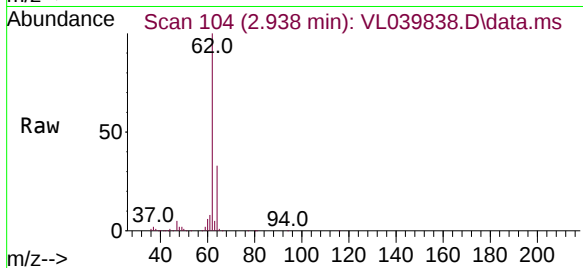




#5
 Vinyl Chloride
 Concen: 28.716 ppbv
 RT: 2.938 min Scan# 104
 Delta R.T. 0.007 min
 Lab File: VL039838.D
 Acq: 7 Nov 2022 13:42

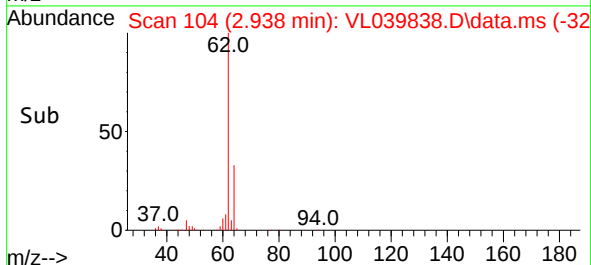
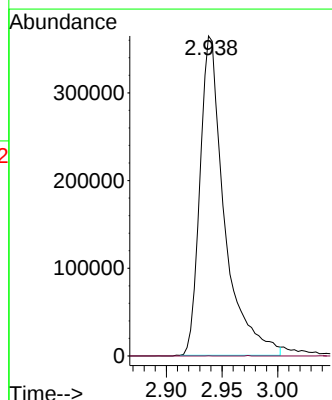
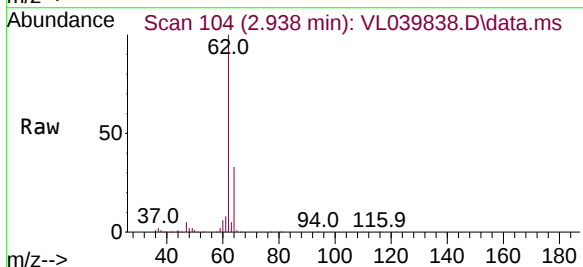
Instrument :
 MSVOA_L
 ClientSampleId :
 E058-1100

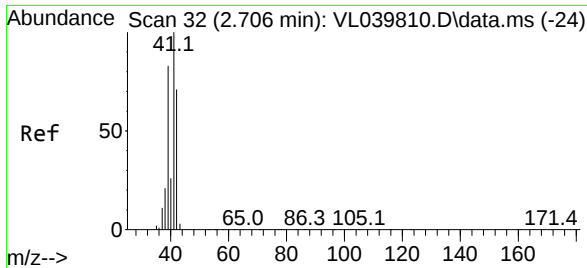
Tgt Ion: 62 Resp: 1744278
 Ion Ratio Lower Upper
 62 100
 64 33.2 25.0 37.4



#7
 Chloroethane
 Concen: 24.430 ppbv
 RT: 2.938 min Scan# 104
 Delta R.T. -0.270 min
 Lab File: VL039838.D
 Acq: 7 Nov 2022 13:42

Tgt Ion: 64 Resp: 556102
 Ion Ratio Lower Upper
 64 100
 66 0.1 25.5 38.3#





#9

Propene

Concen: 0.111 ppbv

RT: 2.722 min Scan# 31

Delta R.T. 0.016 min

Lab File: VL039838.D

Acq: 7 Nov 2022 13:42

Instrument :

MSVOA_L

ClientSampleId :

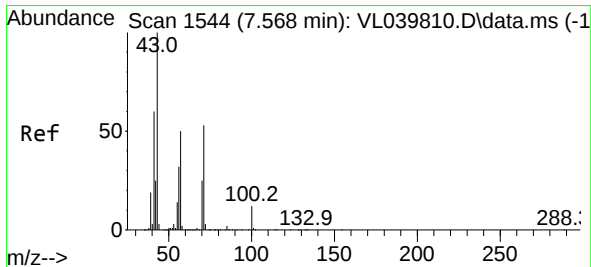
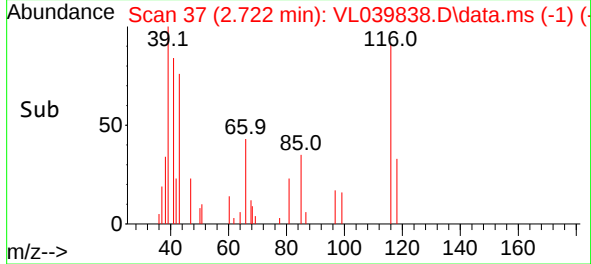
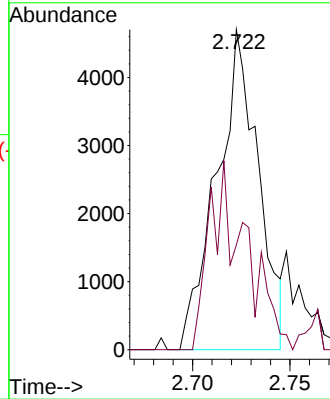
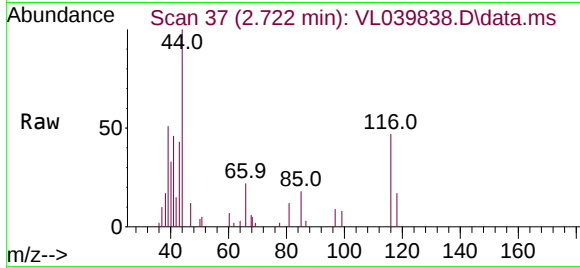
E058-1100

Tgt Ion: 41 Resp: 6983

Ion Ratio Lower Upper

41 100

42 55.8 56.3 84.5#



#10

Heptane

Concen: 29.169 ppbv

RT: 7.581 min Scan# 1548

Delta R.T. 0.013 min

Lab File: VL039838.D

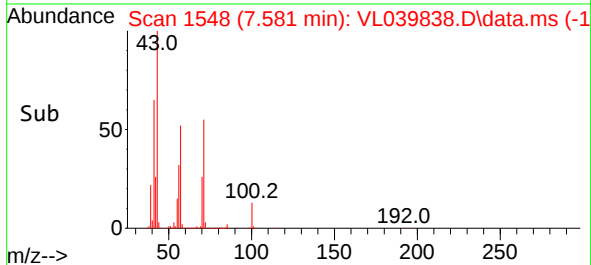
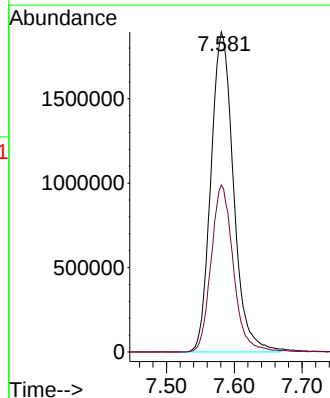
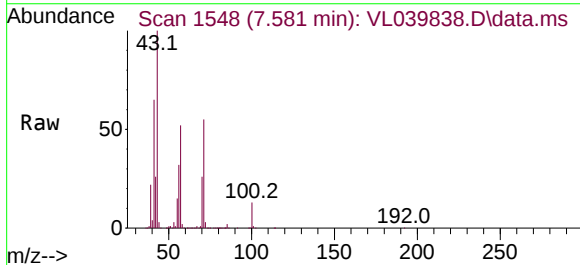
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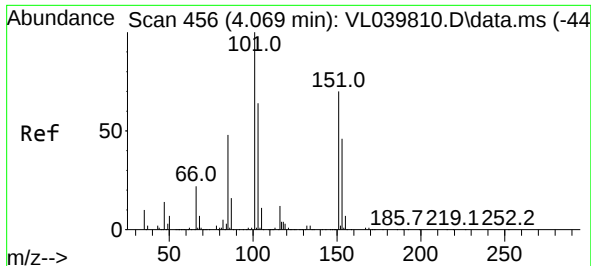
Tgt Ion: 43 Resp: 4387028

Ion Ratio Lower Upper

43 100

57 51.4 40.5 60.7





#12

1,1,2-Trichlorotrifluoroethane

Concen: 24.953 ppbv

RT: 4.079 min Scan# 4

Delta R.T. 0.010 min

Lab File: VL039838.D

Acq: 7 Nov 2022 13:42

Instrument :

MSVOA_1

ClientSampleId :

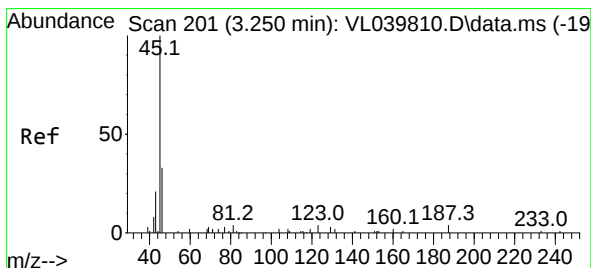
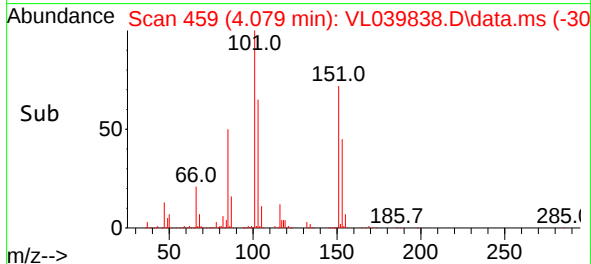
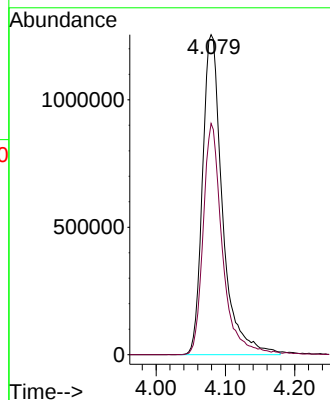
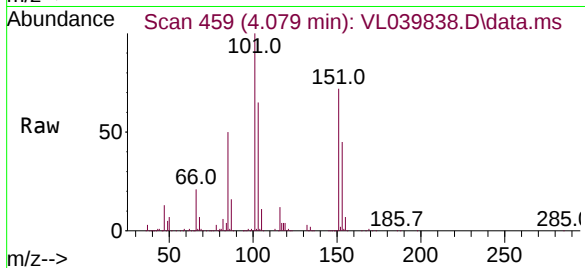
E058-1100

Tgt Ion:101 Resp: 2508125

Ion Ratio Lower Upper

101 100

151 70.2 57.2 85.8



#13

Ethanol

Concen: 0.162 ppbv

RT: 3.256 min Scan# 203

Delta R.T. 0.007 min

Lab File: VL039838.D

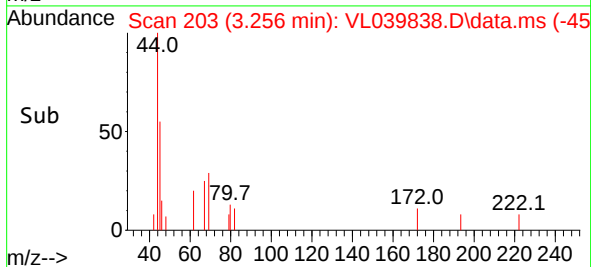
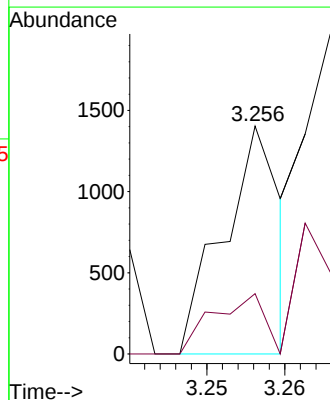
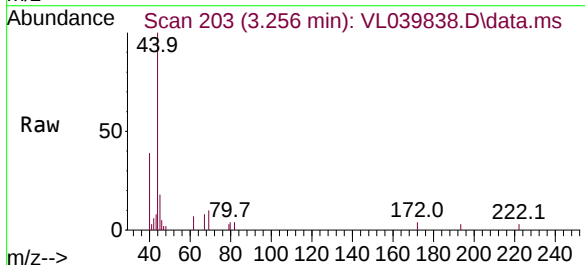
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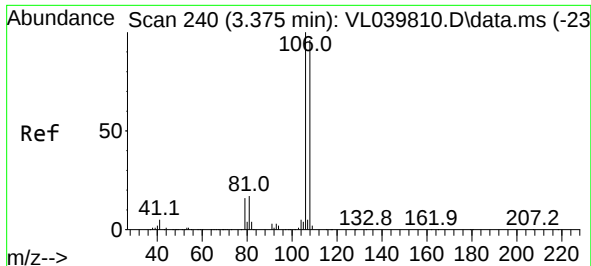
Tgt Ion: 45 Resp: 719

Ion Ratio Lower Upper

45 100

46 0.0 16.5 65.9#

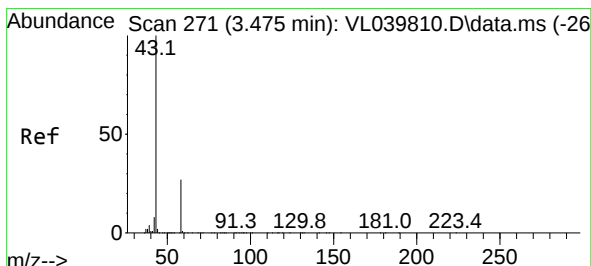
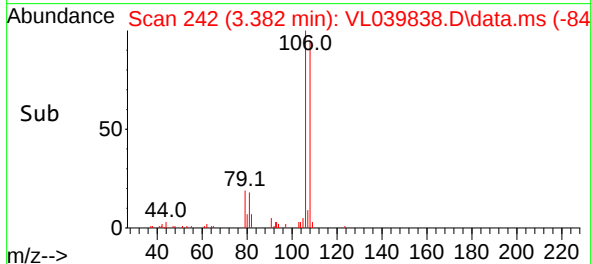
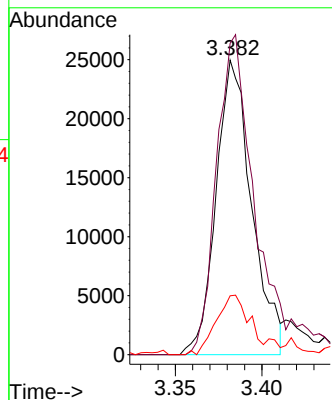
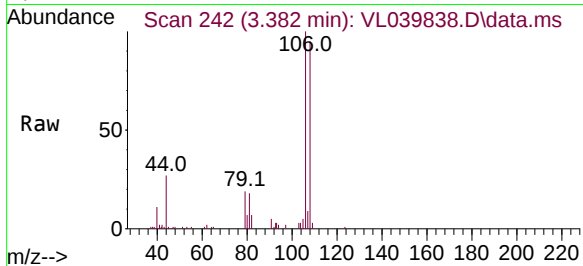




#14
Bromoethene
Concen: 0.793 ppbv
RT: 3.382 min Scan# 240
Delta R.T. 0.007 min
Lab File: VL039838.D
Acq: 7 Nov 2022 13:42

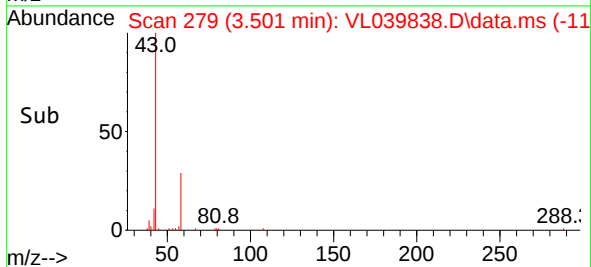
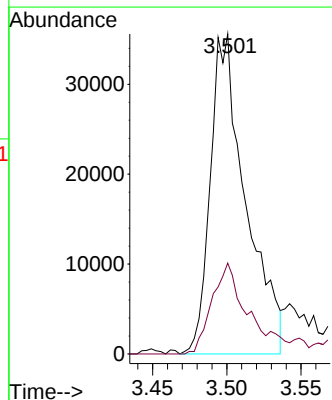
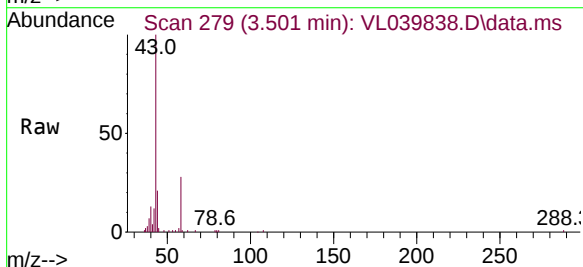
Instrument :
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E058-1100

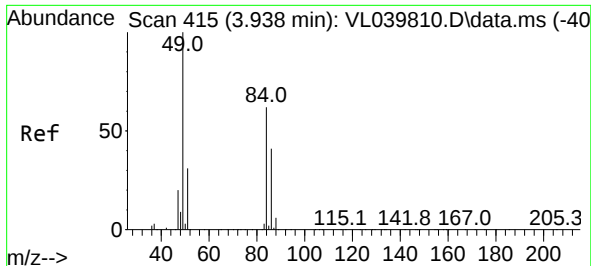
Tgt Ion:108 Resp: 35700
Ion Ratio Lower Upper
108 100
106 124.8 87.8 131.8
79 24.3 14.5 21.7#



#15
Acetone
Concen: 0.480 ppbv
RT: 3.501 min Scan# 279
Delta R.T. 0.026 min
Lab File: VL039838.D
Acq: 7 Nov 2022 13:42

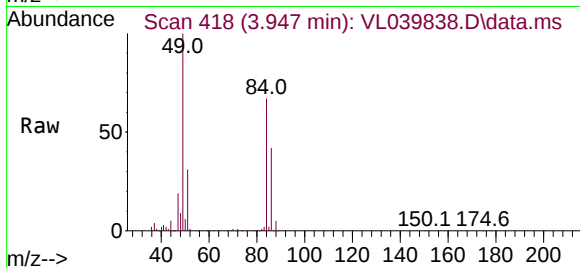
Tgt Ion: 43 Resp: 59106
Ion Ratio Lower Upper
43 100
58 33.6 23.2 34.8





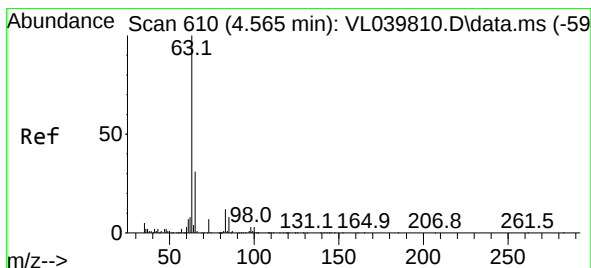
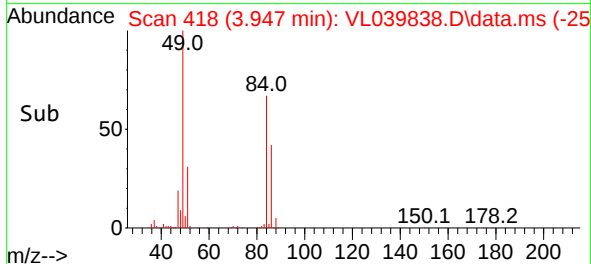
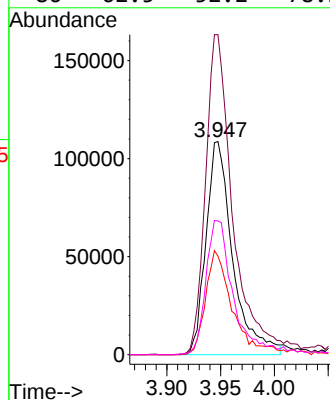
#20
Methylene Chloride
Concen: 4.278 ppbv
RT: 3.947 min Scan# 415
Delta R.T. 0.010 min
Lab File: VL039838.D
Acq: 7 Nov 2022 13:42

Instrument :
MSVOA_L
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E058-1100



Tgt Ion: 84 Resp: 188277

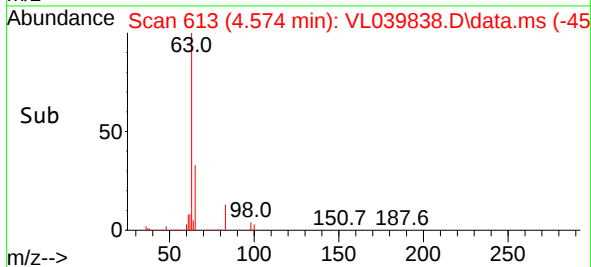
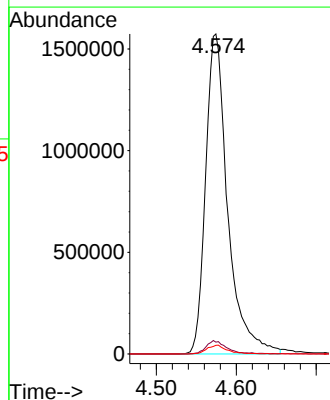
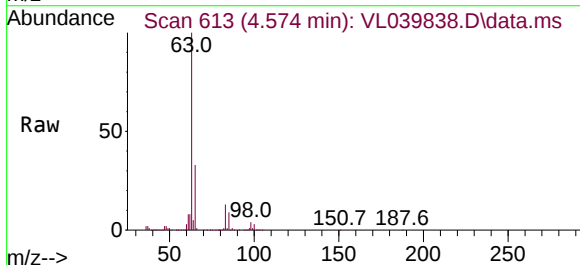
Ion	Ratio	Lower	Upper
84	100		
49	150.1	128.6	192.8
51	46.0	40.2	60.4
86	62.5	52.2	78.2

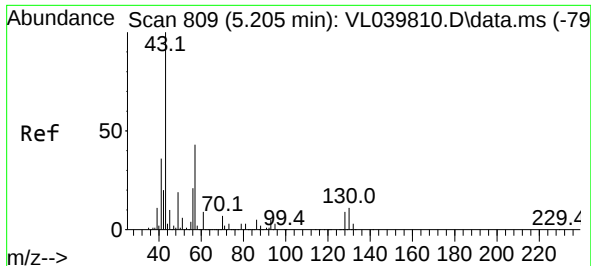


#24
1,1-Dichloroethane
Concen: 30.187 ppbv
RT: 4.574 min Scan# 613
Delta R.T. 0.010 min
Lab File: VL039838.D
Acq: 7 Nov 2022 13:42

Tgt Ion: 63 Resp: 3022174

Ion	Ratio	Lower	Upper
63	100		
98	3.7	1.8	5.4
100	2.7	1.5	4.4





#25

Ethyl Acetate

Concen: 11.594 ppbv

RT: 5.221 min Scan# 814

Delta R.T. 0.016 min

Lab File: VL039838.D

Acq: 7 Nov 2022 13:42

Instrument :

MSVOA_L

ClientSampleId :

E058-1100

Tgt Ion: 43 Resp: 2938193

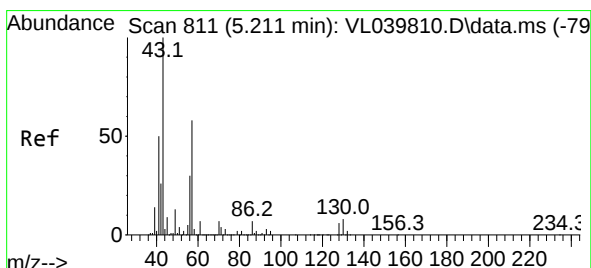
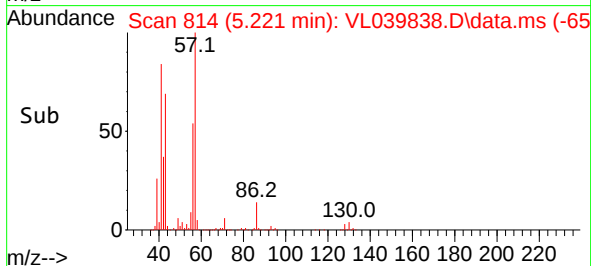
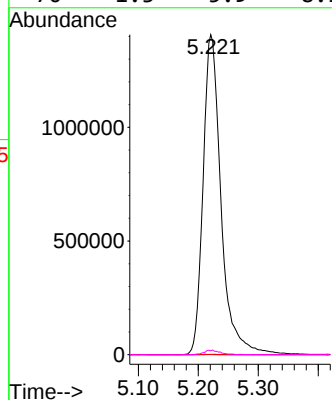
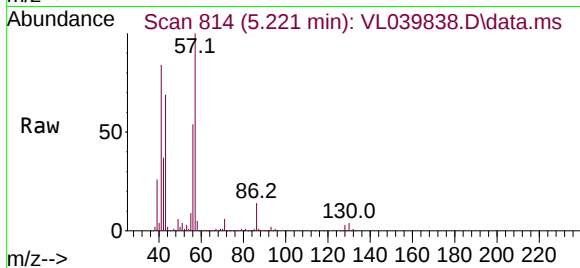
Ion Ratio Lower Upper

43 100

45 0.1 8.2 12.2#

61 0.1 8.1 12.1#

70 1.3 5.9 8.9#



#26

Hexane

Concen: 37.663 ppbv

RT: 5.221 min Scan# 814

Delta R.T. 0.010 min

Lab File: VL039838.D

Acq: 7 Nov 2022 13:42

Tgt Ion: 57 Resp: 4255600

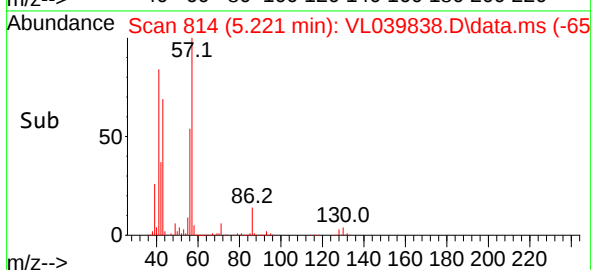
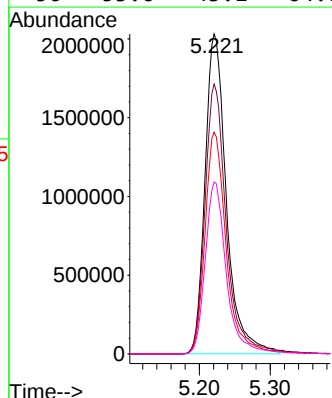
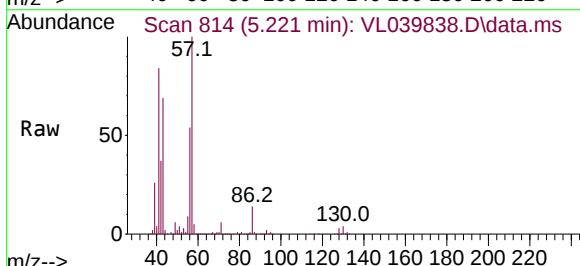
Ion Ratio Lower Upper

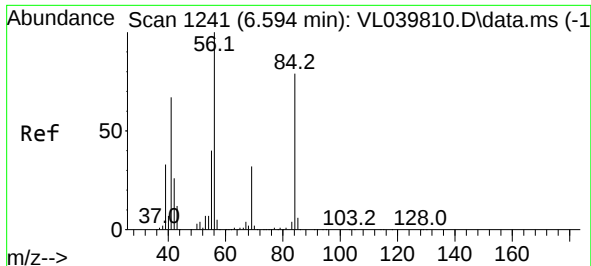
57 100

41 84.9 73.7 110.5

43 69.5 189.8 284.8#

56 53.6 43.1 64.7

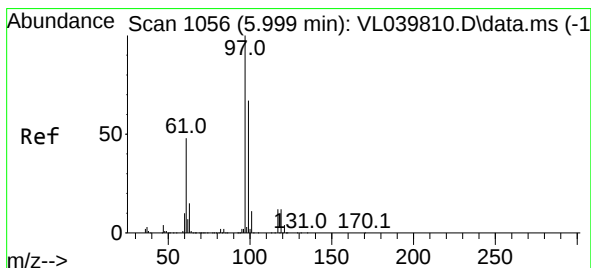
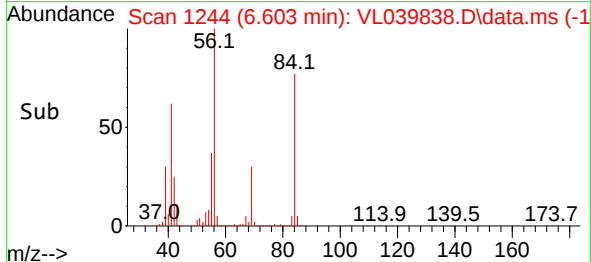
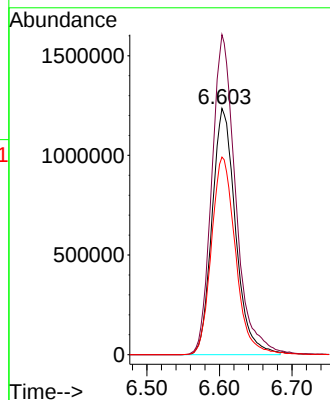
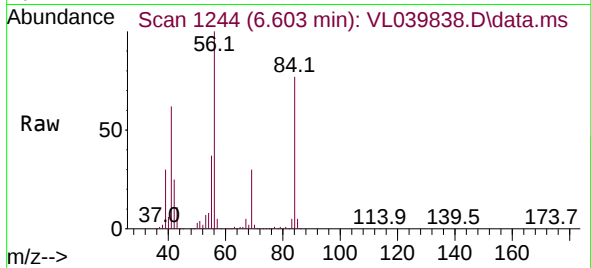




#30
Cyclohexane
Concen: 29.460 ppbv
RT: 6.603 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL039838.D
Acq: 7 Nov 2022 13:42

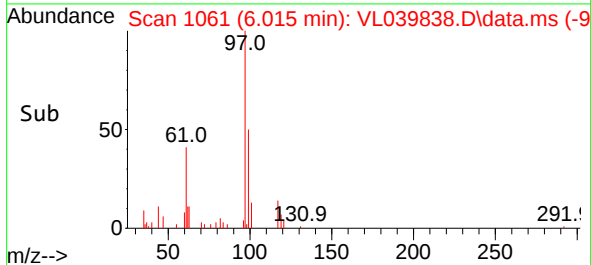
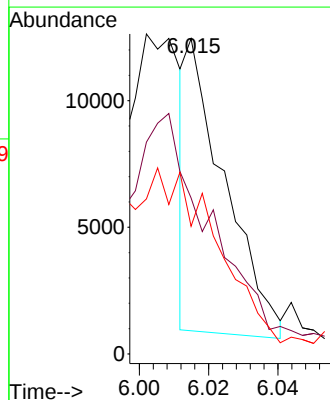
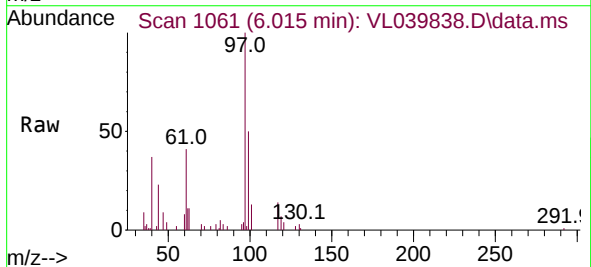
Instrument :
MSVOA_L
ClientSampleId :
E058-1100

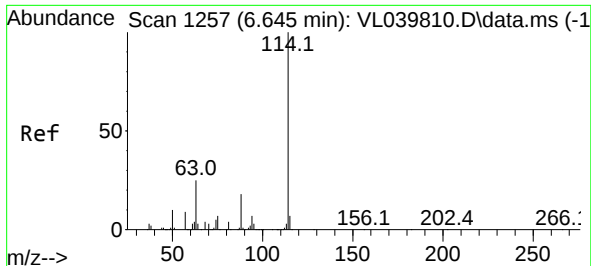
Tgt Ion: 84 Resp: 2783531
Ion Ratio Lower Upper
84 100
56 132.3 114.8 172.2
41 82.4 68.6 103.0



#32
1,1,1-Trichloroethane
Concen: 0.056 ppbv
RT: 6.015 min Scan# 1061
Delta R.T. 0.016 min
Lab File: VL039838.D
Acq: 7 Nov 2022 13:42

Tgt Ion: 97 Resp: 8874
Ion Ratio Lower Upper
97 100
99 0.0 52.7 79.1#
61 0.0 38.9 58.3#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.655 min Scan# 11

Delta R.T. 0.010 min

Lab File: VL039838.D

Acq: 7 Nov 2022 13:42

Instrument :

MSVOA_L

ClientSampleId :

E058-1100

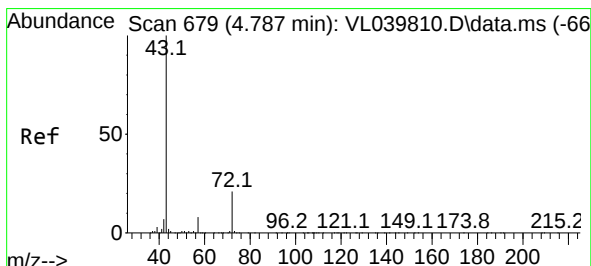
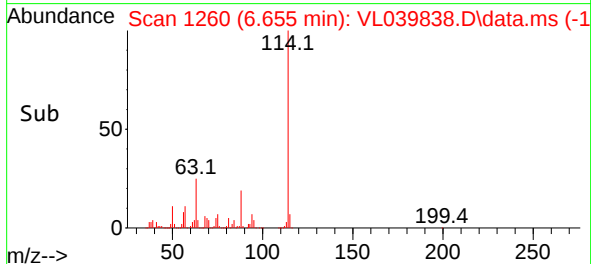
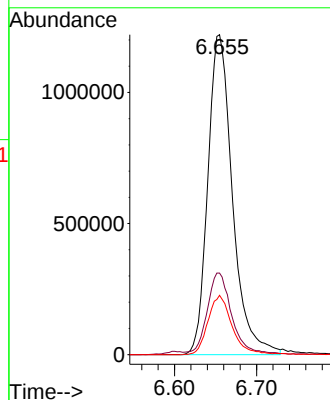
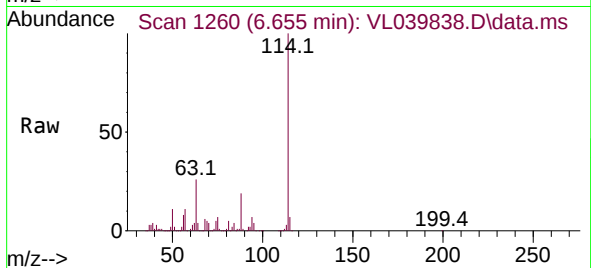
Tgt Ion:114 Resp: 2550925

Ion Ratio Lower Upper

114 100

63 26.8 19.8 29.6

88 18.4 14.4 21.6



#34

2-Butanone

Concen: 27.320 ppbv

RT: 5.221 min Scan# 814

Delta R.T. 0.434 min

Lab File: VL039838.D

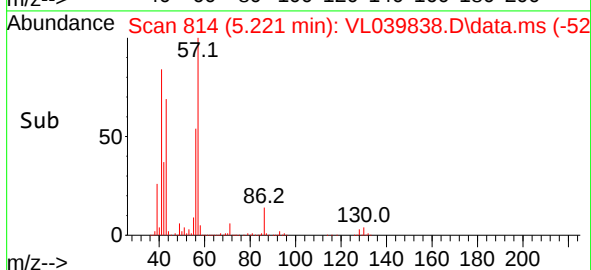
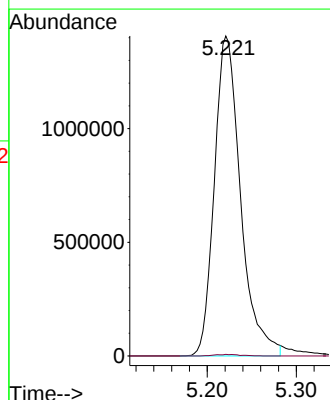
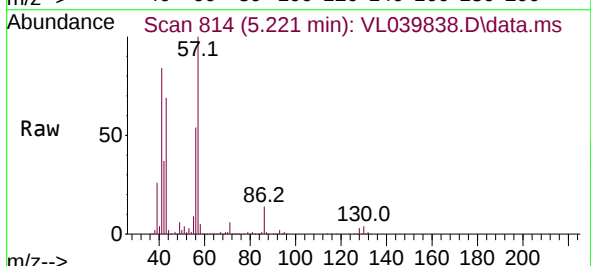
Acq: 7 Nov 2022 13:42

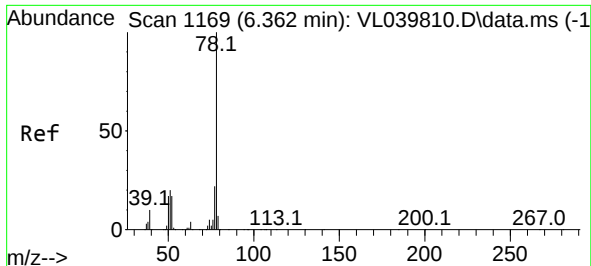
Tgt Ion: 43 Resp: 2875037

Ion Ratio Lower Upper

43 100

72 0.5 17.5 26.3#





#36

Benzene

Concen: 23.560 ppbv

RT: 6.372 min Scan# 1169

Delta R.T. 0.010 min

Lab File: VL039838.D

Acq: 7 Nov 2022 13:42

Instrument :

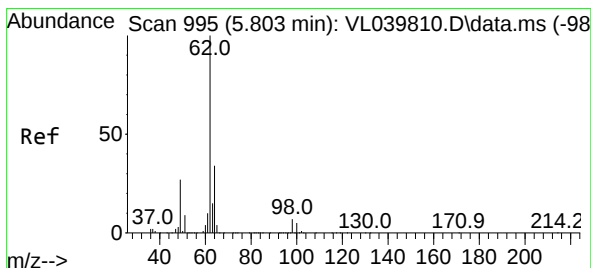
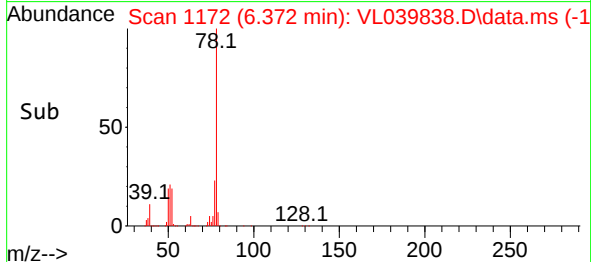
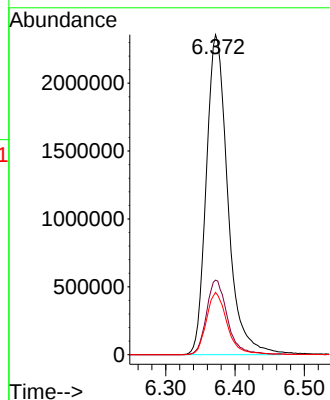
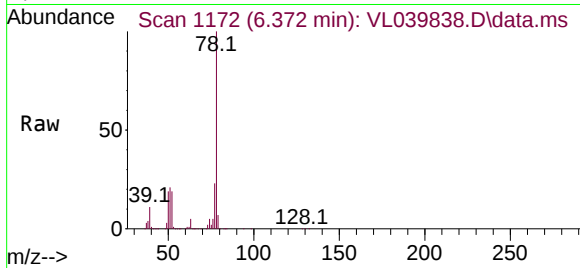
MSVOA_L

ClientSampleId :

E058-1100

Tgt Ion: 78 Resp: 5069686

Ion	Ratio	Lower	Upper
78	100		
77	23.3	17.4	26.2
50	19.4	13.9	20.9



#37

1,2-Dichloroethane

Concen: 0.135 ppbv

RT: 5.809 min Scan# 997

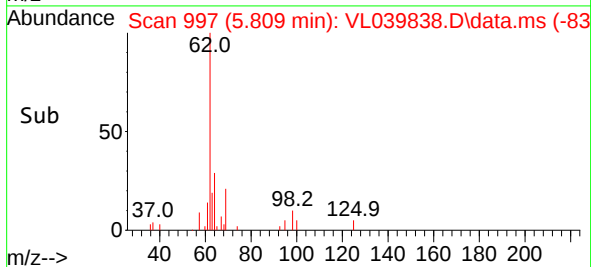
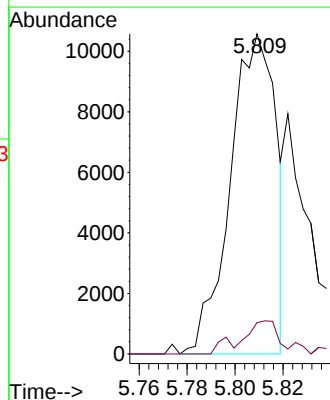
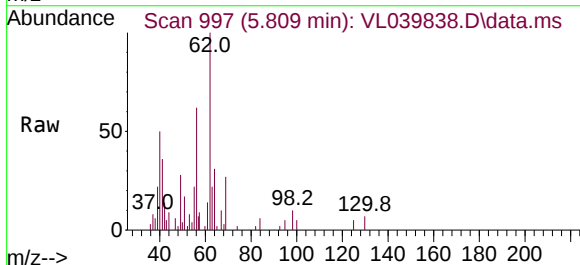
Delta R.T. 0.007 min

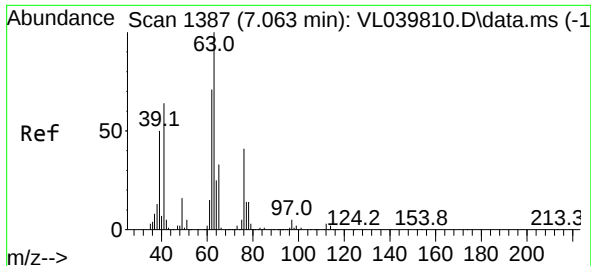
Lab File: VL039838.D

Acq: 7 Nov 2022 13:42

Tgt Ion: 62 Resp: 13958

Ion	Ratio	Lower	Upper
62	100		
98	9.1	5.4	8.2#





#39

1,2-Dichloropropane

Concen: 7.503 ppbv

RT: 6.655 min Scan# 11

Delta R.T. -0.408 min

Lab File: VL039838.D

Acq: 7 Nov 2022 13:42

Instrument :

MSVOA_L

ClientSampleId :

E058-1100

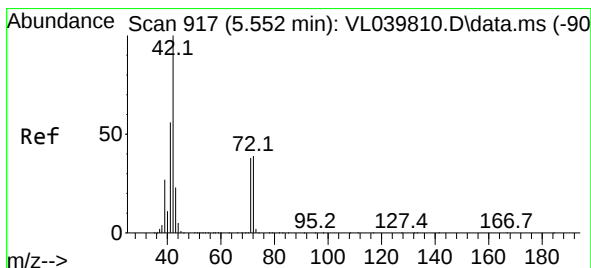
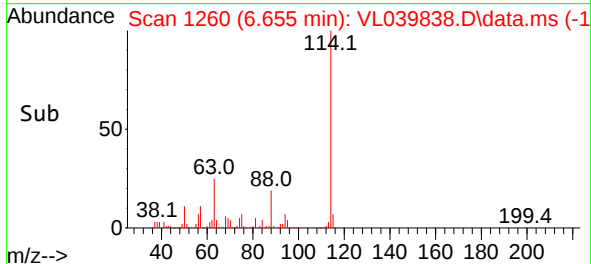
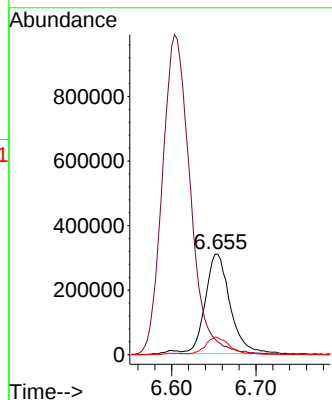
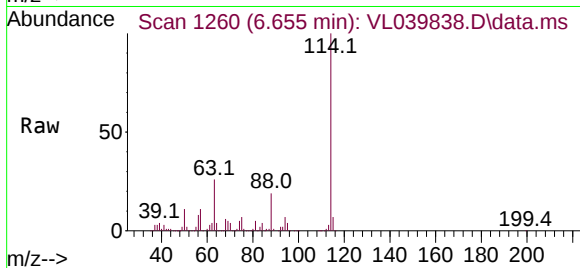
Tgt Ion: 63 Resp: 629086

Ion Ratio Lower Upper

63 100

41 12.6 51.0 76.4#

62 17.1 56.6 85.0#



#41

Tetrahydrofuran

Concen: 17.715 ppbv

RT: 5.221 min Scan# 814

Delta R.T. -0.331 min

Lab File: VL039838.D

Acq: 7 Nov 2022 13:42

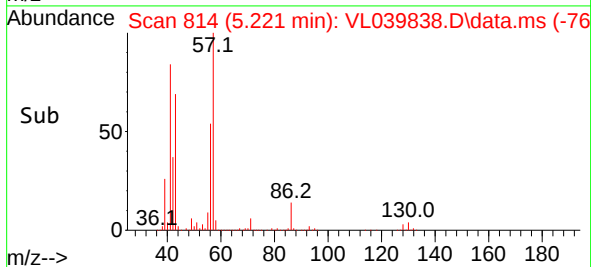
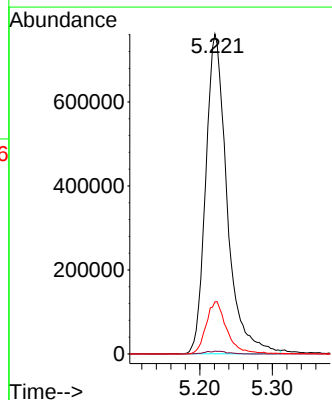
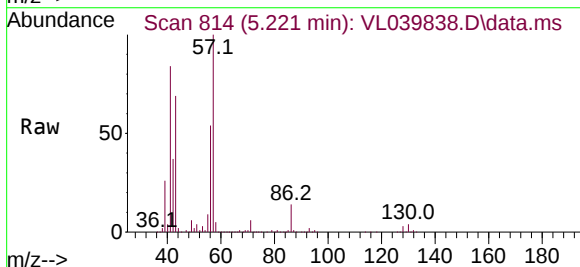
Tgt Ion: 42 Resp: 1558019

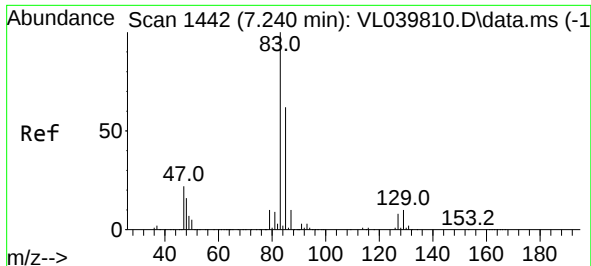
Ion Ratio Lower Upper

42 100

72 0.9 31.4 47.2#

71 16.1 31.5 47.3#

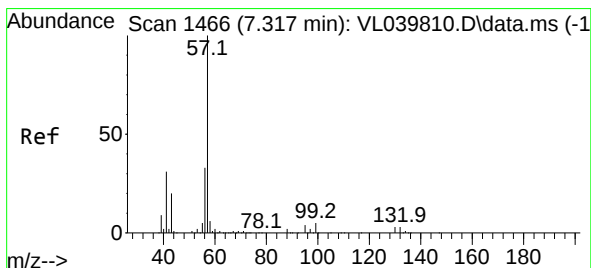
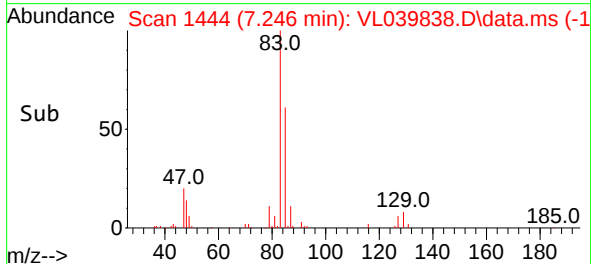
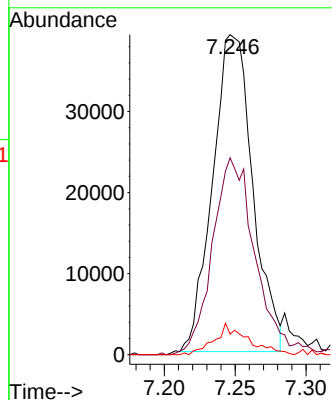
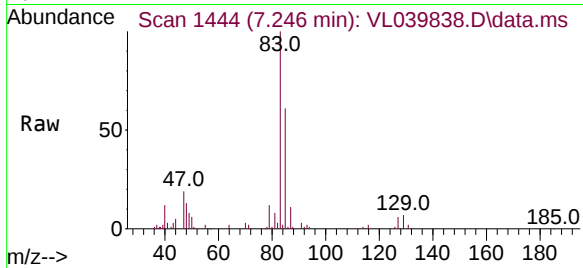




#42
Bromodichloromethane
Concen: 0.469 ppbv
RT: 7.246 min Scan# 1442
Delta R.T. 0.007 min
Lab File: VL039838.D
Acq: 7 Nov 2022 13:42

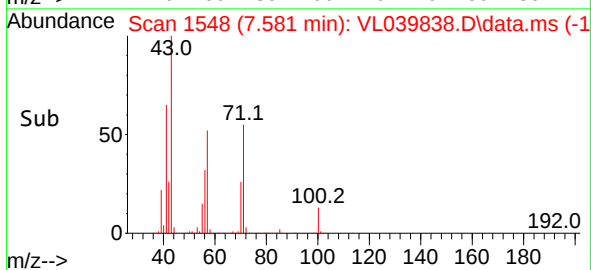
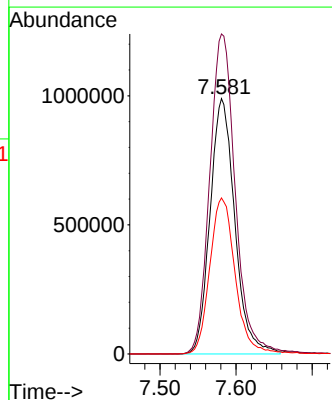
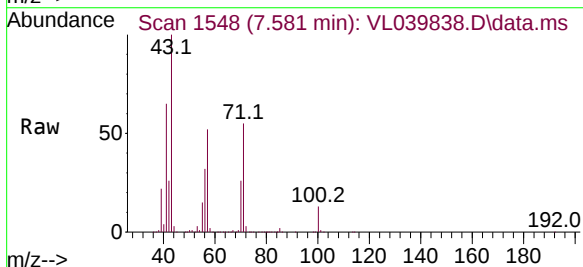
Instrument :
MSVOA_L
ClientSampleId :
E058-1100

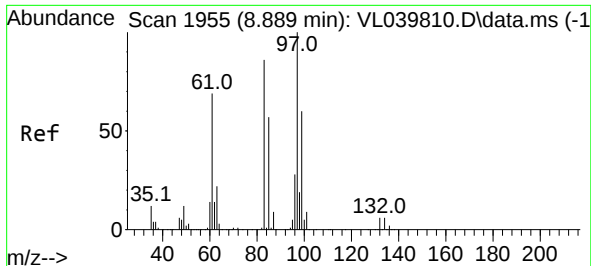
Tgt Ion: 83 Resp: 77339
Ion Ratio Lower Upper
83 100
85 61.0 49.9 74.9
127 6.5 6.4 9.6



#44
2,2,4-Trimethylpentane
Concen: 6.160 ppbv
RT: 7.581 min Scan# 1548
Delta R.T. 0.264 min
Lab File: VL039838.D
Acq: 7 Nov 2022 13:42

Tgt Ion: 57 Resp: 2237508
Ion Ratio Lower Upper
57 100
41 0.0 24.6 36.8#
56 63.0 25.4 38.0#

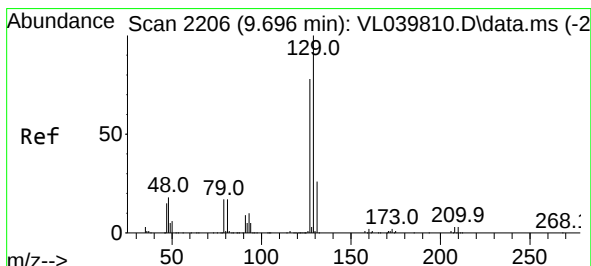
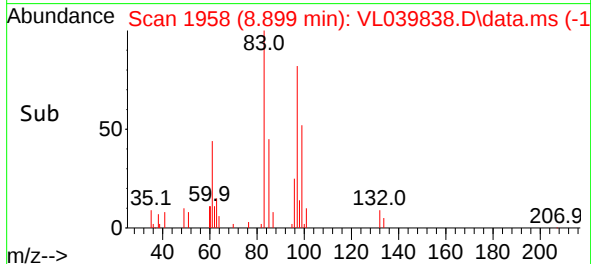
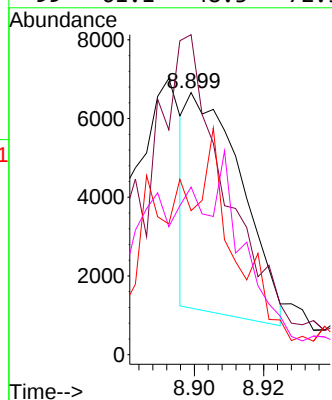
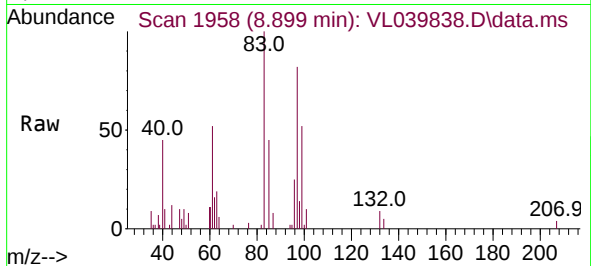




#47
1,1,2-Trichloroethane
Concen: 0.071 ppbv
RT: 8.899 min Scan# 1955
Delta R.T. 0.010 min
Lab File: VL039838.D
Acq: 7 Nov 2022 13:42

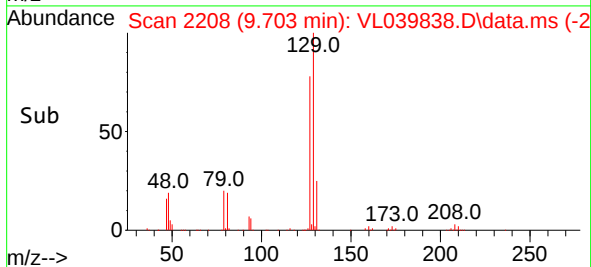
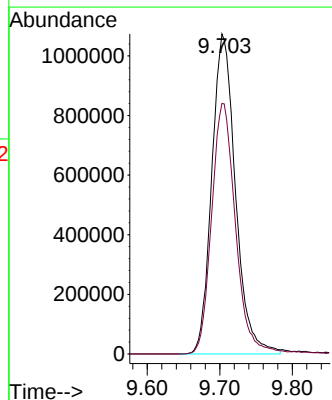
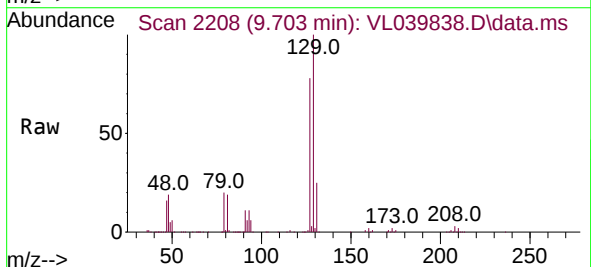
Instrument :
MSVOA_L
ClientSampleId :
E058-1100

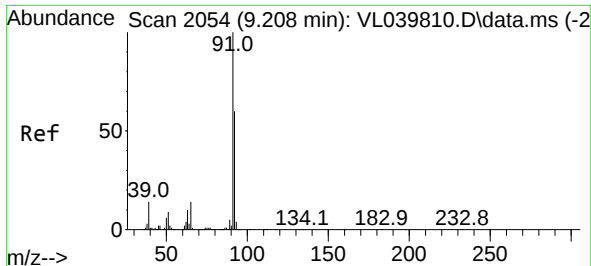
Tgt Ion:	97	Resp:	6050
Ion	Ratio	Lower	Upper
97	100		
83	127.6	68.8	103.2#
85	51.7	45.8	68.6
99	61.1	48.3	72.5



#48
Dibromochloromethane
Concen: 16.853 ppbv
RT: 9.703 min Scan# 2208
Delta R.T. 0.007 min
Lab File: VL039838.D
Acq: 7 Nov 2022 13:42

Tgt Ion:	129	Resp:	2437946
Ion	Ratio	Lower	Upper
129	100		
127	79.7	39.4	118.1





#53

Toluene

Concen: 22.418 ppbv

RT: 9.217 min Scan# 2054

Delta R.T. 0.010 min

Lab File: VL039838.D

Acq: 7 Nov 2022 13:42

Instrument :

MSVOA_L

ClientSampleId :

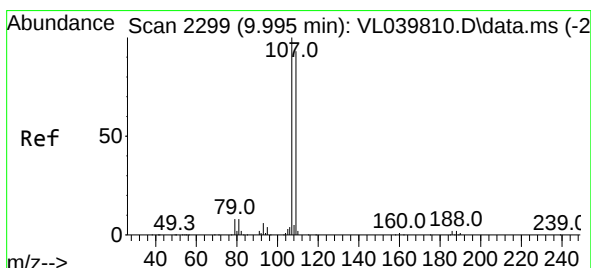
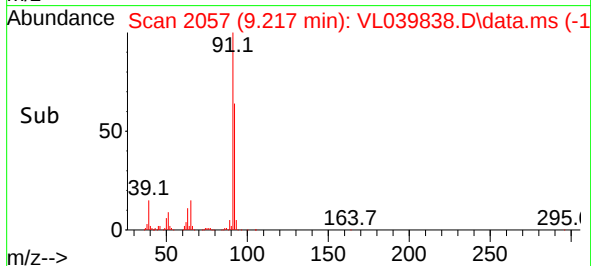
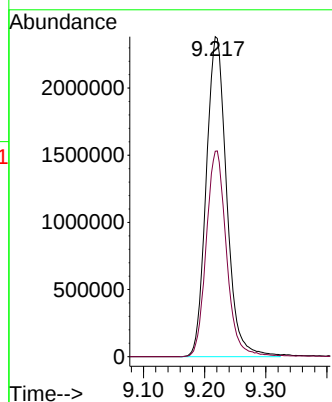
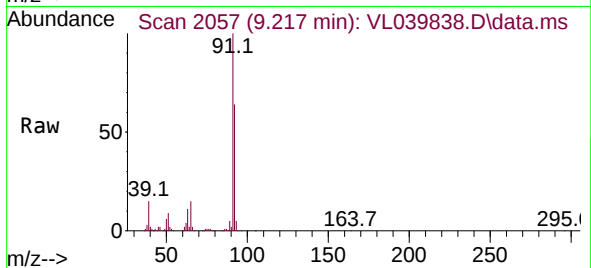
E058-1100

Tgt Ion: 91 Resp: 5534173

Ion Ratio Lower Upper

91 100

92 64.0 49.6 74.4



#54

1,2-Dibromoethane

Concen: 49.332 ppbv

RT: 10.005 min Scan# 2302

Delta R.T. 0.010 min

Lab File: VL039838.D

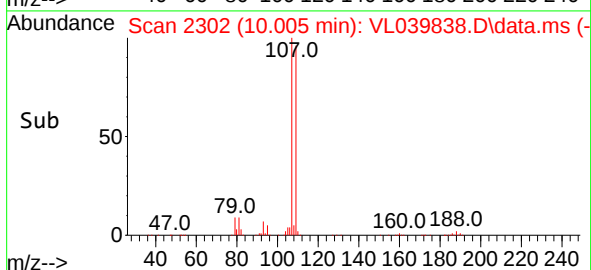
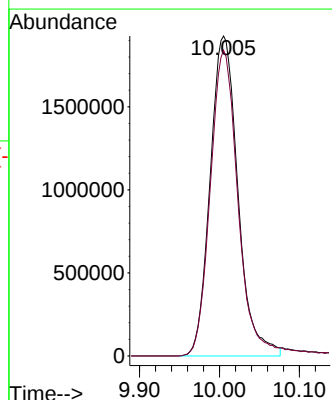
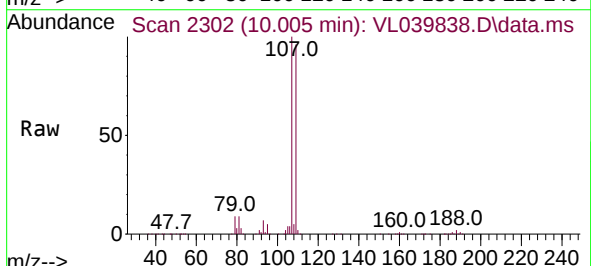
Acq: 7 Nov 2022 13:42

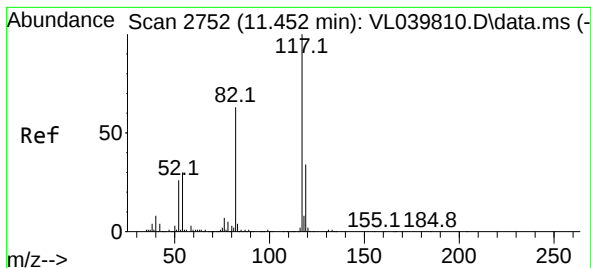
Tgt Ion: 107 Resp: 4648024

Ion Ratio Lower Upper

107 100

109 95.5 74.5 111.7

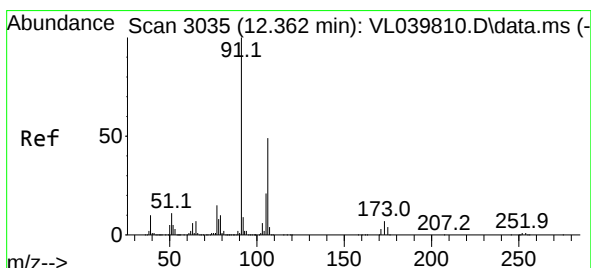
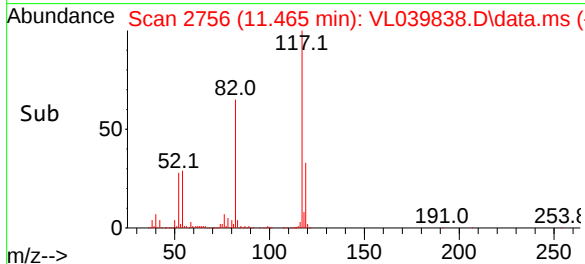
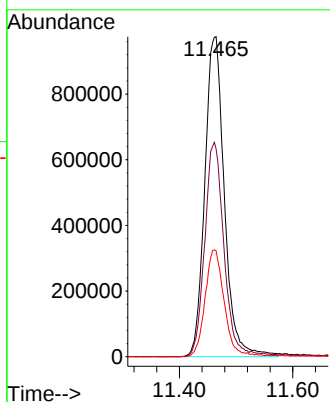
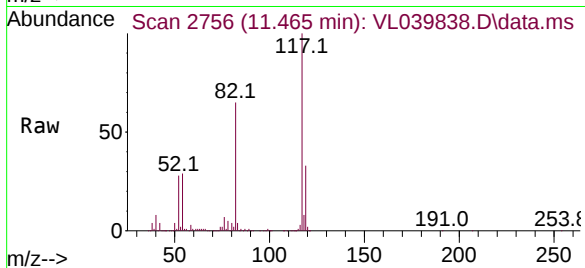




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.465 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL039838.D
Acq: 7 Nov 2022 13:42

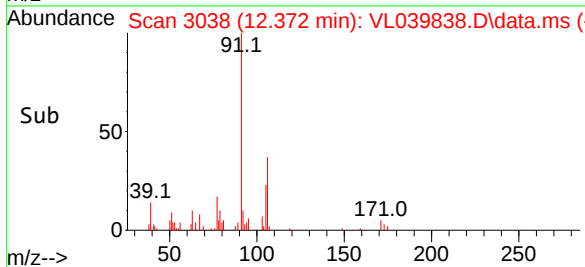
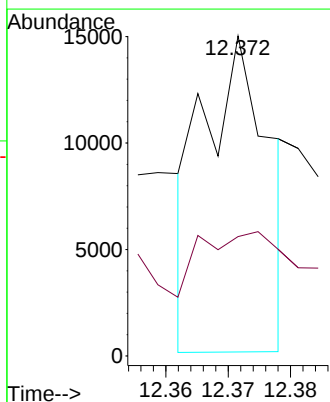
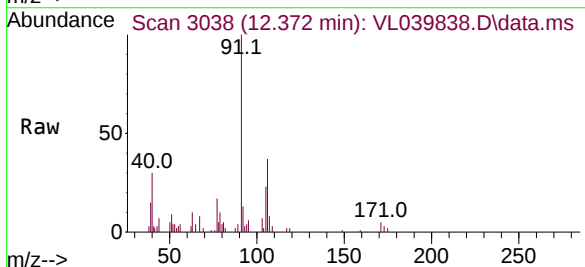
Instrument :
MSVOA_L
ClientSampleId :
E058-1100

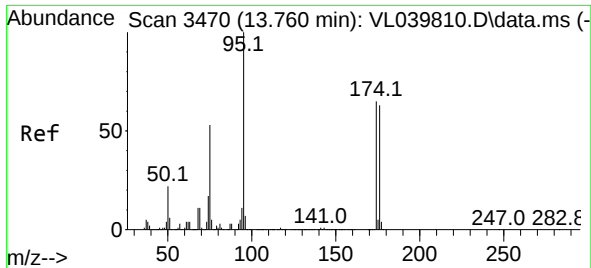
Tgt Ion:117 Resp: 2340041
Ion Ratio Lower Upper
117 100
82 67.0 51.0 76.6
119 33.1 24.7 37.1



#59
m/p-Xylene
Concen: 0.041 ppbv
RT: 12.372 min Scan# 3038
Delta R.T. 0.010 min
Lab File: VL039838.D
Acq: 7 Nov 2022 13:42

Tgt Ion: 91 Resp: 10878
Ion Ratio Lower Upper
91 100
106 150.4 37.6 56.4#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.015 ppbv
 RT: 13.767 min Scan# 3472
 Delta R.T. 0.007 min
 Lab File: VL039838.D
 Acq: 7 Nov 2022 13:42

Instrument :
 MSVOA_L
 ClientSampleId :
 E058-1100

Tgt Ion: 95 Resp: 1754135
 Ion Ratio Lower Upper
 95 100
 174 65.8 53.4 80.0
 175 4.6 4.1 6.1

