

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW031323\
 Data File : VW030182.D
 Acq On : 13 Mar 2023 17:28
 Operator : SY/MD
 Sample : 01884-03
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 CB908

Quant Time: Mar 14 03:47:35 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR022323WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Mar 14 03:44:35 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.545	114	149586	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.792	117	152504	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.194	152	97545	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	56512	5.839	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	116.800%
7) Chloroethane-d5	1.536	69	48007	5.284	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	105.600%
11) 1,1-Dichloroethene-d2	2.060	63	82491	4.146	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	83.000%
20) 2-Butanone-d5	3.857	46	40751	22.836	ug/L	0.04
Spiked Amount	50.000	Range	40 - 130	Recovery	=	45.680%
24) Chloroform-d	4.262	84	99329	5.024	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.400%
26) 1,2-Dichloroethane-d4	4.953	65	42219	5.231	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	104.600%
32) Benzene-d6	4.969	84	190643	4.646	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.000%
36) 1,2-Dichloropropane-d6	5.998	67	60002	4.860	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.200%
41) Toluene-d8	7.252	98	168624	4.335	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.800%
43) trans-1,3-Dichloroprop...	7.564	79	19755	4.677	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	93.600%
46) 2-Hexanone-d5	8.040	63	70442	40.313	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	80.620%
56) 1,1,2,2-Tetrachloroeth...	10.162	84	49589	5.646	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	113.000%
66) 1,2-Dichlorobenzene-d4	11.570	152	83966	5.088	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	101.800%
Target Compounds						
					Qvalue	
3) Chloromethane	1.217	50	3276	0.171	ug/L	95
5) Vinyl chloride	1.285	62	2370	0.186	ug/L #	62
6) Bromomethane	1.491	94	352	0.154	ug/L	78
8) Chloroethane	1.555	64	1485	0.191	ug/L	91
13) Acetone	2.175	43	4148	3.145	ug/L	92
14) Carbon disulfide	2.246	76	4904	0.183	ug/L #	89
17) Methyl tert-butyl Ether	2.716	73	33931	1.728	ug/L	99
30) Cyclohexane	4.587	56	3713	0.240	ug/L	94
33) Benzene	5.024	78	8790	0.211	ug/L	100
35) Methylcyclohexane	6.056	83	4600	0.260	ug/L	95
37) 1,2-Dichloropropane	6.002	63	6520	0.615	ug/L #	87
42) Toluene	7.330	91	8793	0.195	ug/L	99
45) 1,1,2-Trichloroethane	7.725	97	3618	0.477	ug/L #	22
51) Chlorobenzene	8.821	112	1452584	47.747	ug/L	99
52) Ethylbenzene	8.956	91	5000	0.102	ug/L	90
53) m,p-Xylene	9.082	106	3627	0.192	ug/L	92
54) o-Xylene	9.490	106	2704	0.150	ug/L	77
57) 1,1,2,2-Tetrachloroethane	10.185	83	11150	1.315	ug/L #	34
60) Isopropylbenzene	9.876	105	446753	7.960	ug/L	99

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

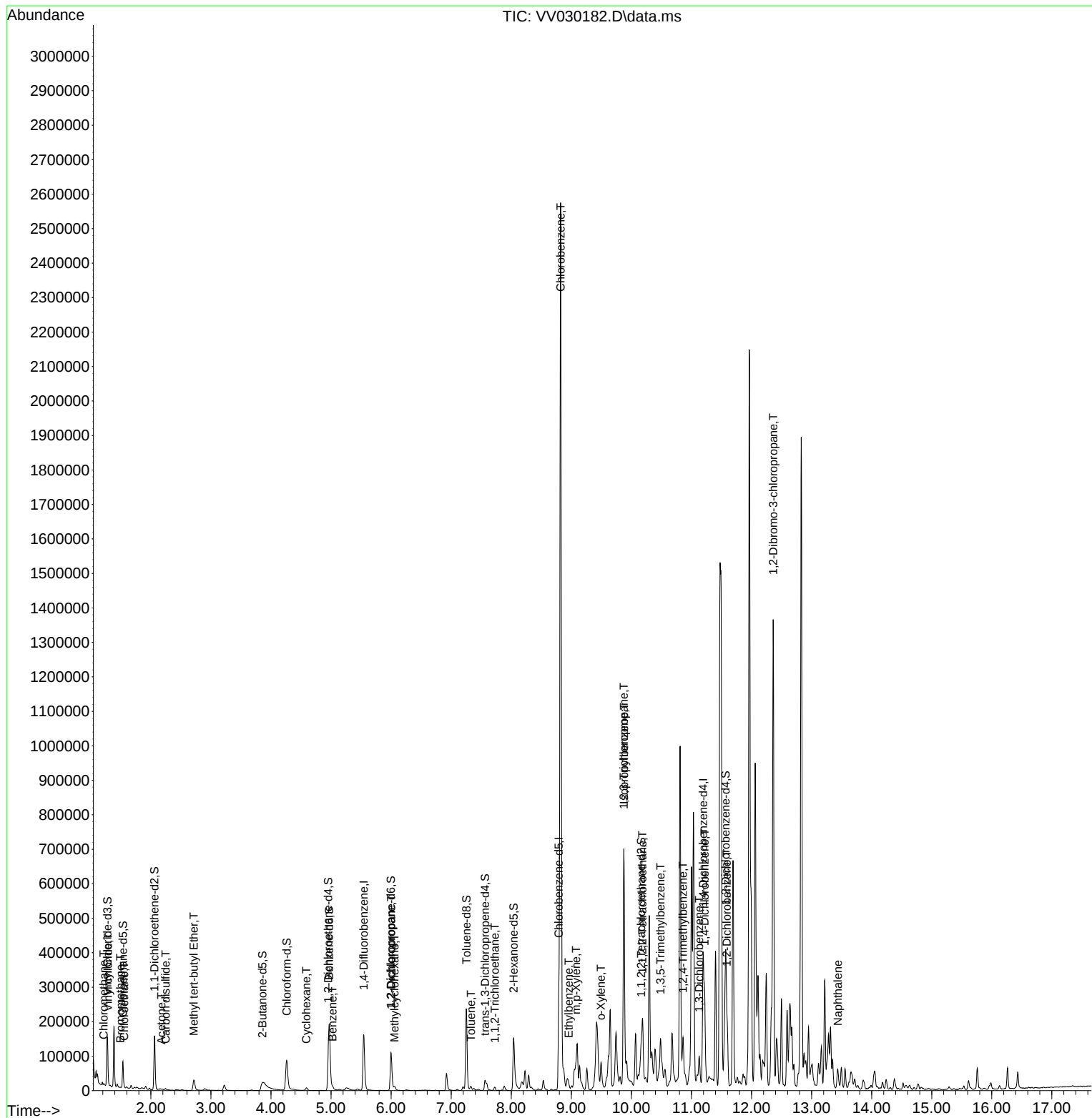
61) 1,2,3-Trichloropropane	9.873	75	5107	0.782	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.484	105	64748	1.404	ug/L	100
63) 1,2,4-Trimethylbenzene	10.860	105	56998	1.209	ug/L	100
64) 1,3-Dichlorobenzene	11.127	146	28329	0.969	ug/L	96
65) 1,4-Dichlorobenzene	11.220	146	109581	3.716	ug/L	99
67) 1,2-Dichlorobenzene	11.590	146	9018	0.349	ug/L	96
68) 1,2-Dibromo-3-chloropr...	12.361	75	4981	3.416	ug/L #	1
71) Naphthalene	13.439	128	6603	0.260	ug/L #	26

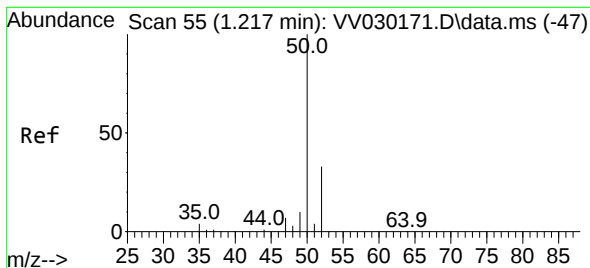
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.171 ug/L

RT: 1.217 min Scan# 51

Delta R.T. 0.000 min

Lab File: VV030182.D

Acq: 13 Mar 2023 17:28

Instrument :

MSVOA_V

ClientSampleId :

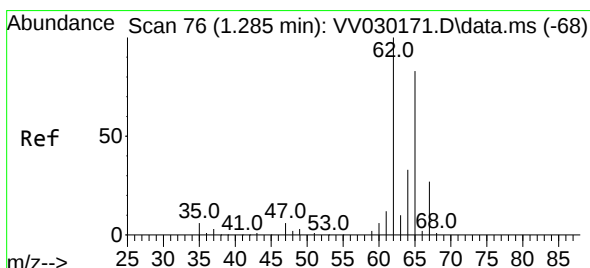
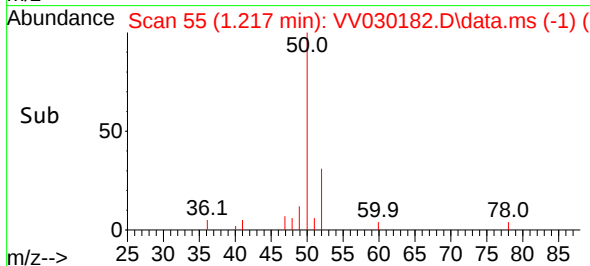
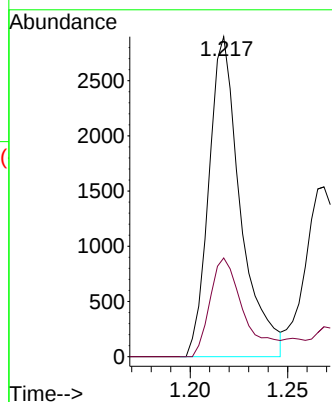
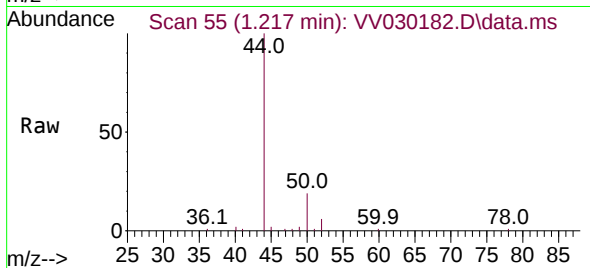
CB908

Tgt Ion: 50 Resp: 3276

Ion Ratio Lower Upper

50 100

52 30.8 23.6 43.8



#5

Vinyl chloride

Concen: 0.186 ug/L

RT: 1.285 min Scan# 76

Delta R.T. 0.000 min

Lab File: VV030182.D

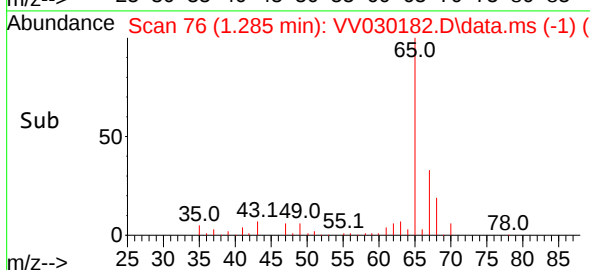
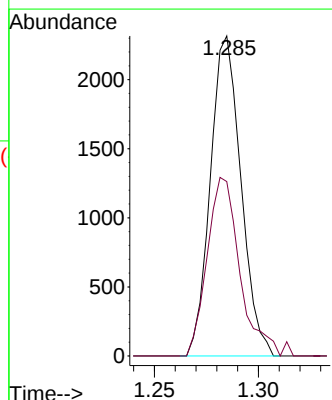
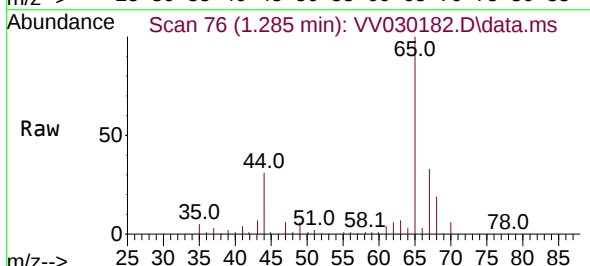
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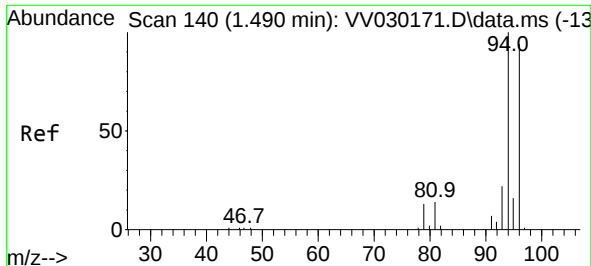
Tgt Ion: 62 Resp: 2370

Ion Ratio Lower Upper

62 100

64 54.5 23.1 42.9#





#6

Bromomethane

Concen: 0.154 ug/L

RT: 1.491 min Scan# 14

Delta R.T. 0.000 min

Lab File: VV030182.D

Acq: 13 Mar 2023 17:28

Instrument :

MSVOA_V

ClientSampleId :

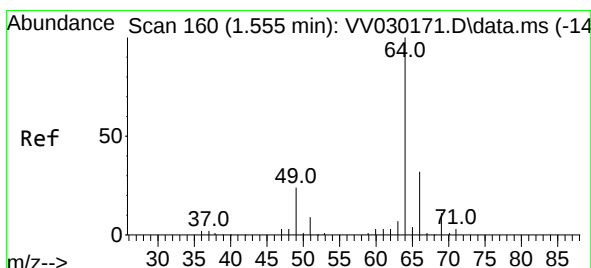
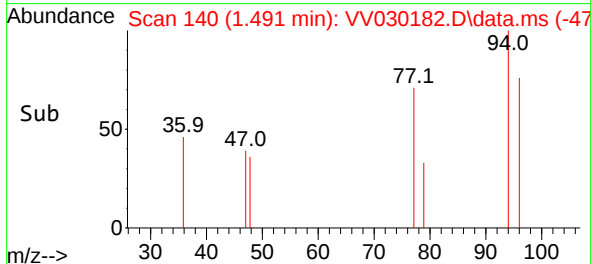
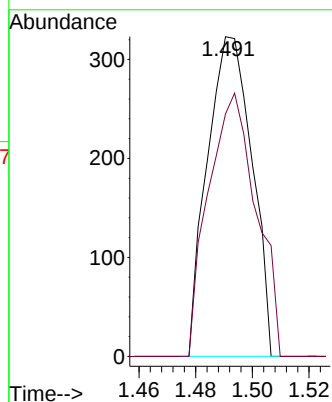
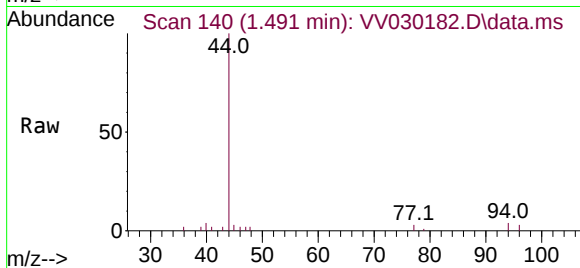
CB908

Tgt Ion: 94 Resp: 352

Ion Ratio Lower Upper

94 100

96 75.9 68.4 127.0



#8

Chloroethane

Concen: 0.191 ug/L

RT: 1.555 min Scan# 160

Delta R.T. 0.000 min

Lab File: VV030182.D

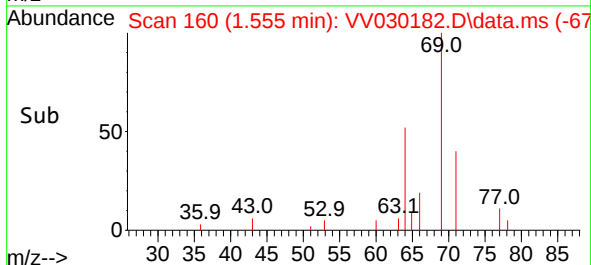
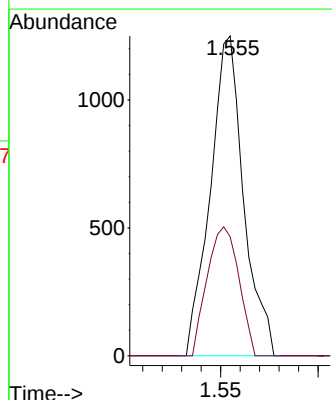
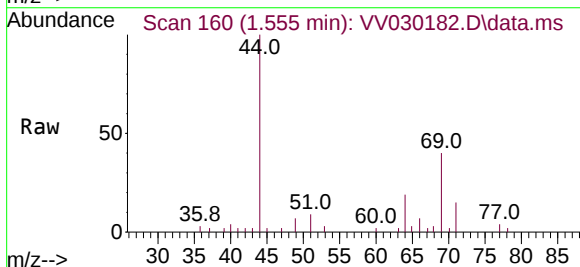
Acq: 13 Mar 2023 17:28

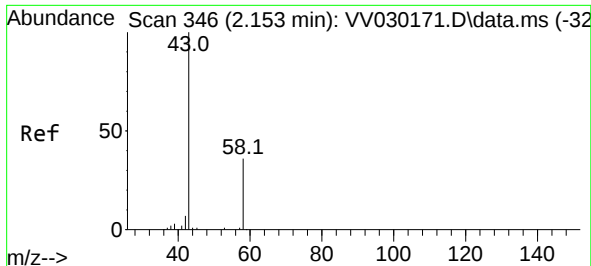
Tgt Ion: 64 Resp: 1485

Ion Ratio Lower Upper

64 100

66 37.3 22.4 41.6





#13

Acetone

Concen: 3.145 ug/L

RT: 2.175 min Scan# 3

Delta R.T. 0.023 min

Lab File: VV030182.D

Acq: 13 Mar 2023 17:28

Instrument :

MSVOA_V

ClientSampleId :

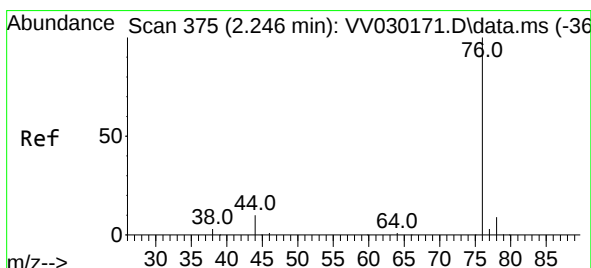
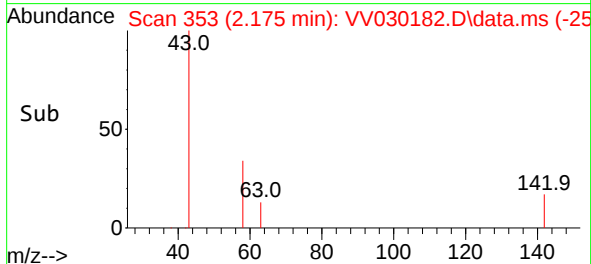
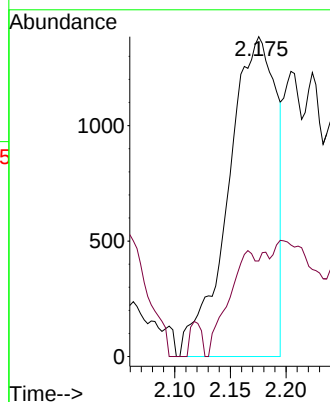
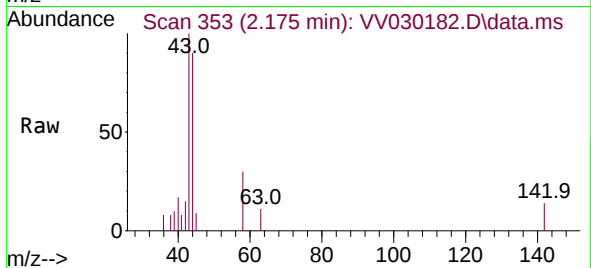
CB908

Tgt Ion: 43 Resp: 4148

Ion Ratio Lower Upper

43 100

58 18.1 0.0 29.4



#14

Carbon disulfide

Concen: 0.183 ug/L

RT: 2.246 min Scan# 375

Delta R.T. 0.000 min

Lab File: VV030182.D

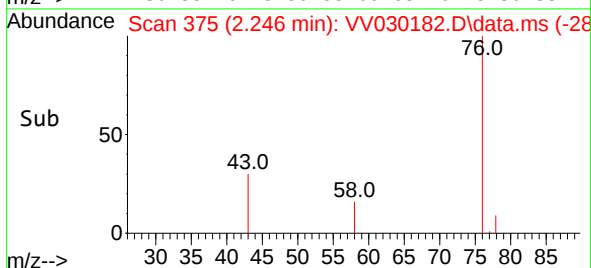
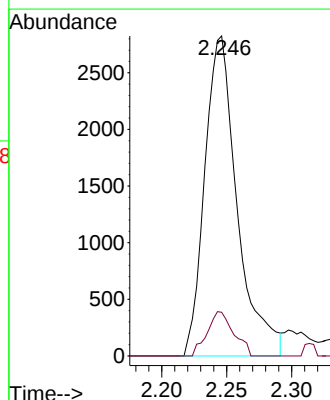
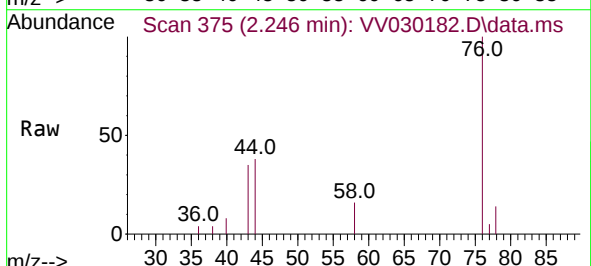
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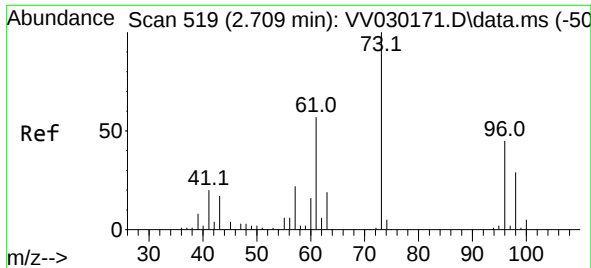
Tgt Ion: 76 Resp: 4904

Ion Ratio Lower Upper

76 100

78 13.7 7.7 11.5#

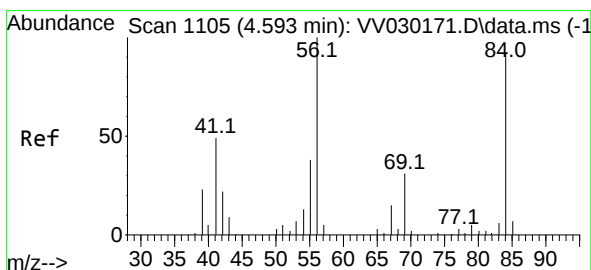
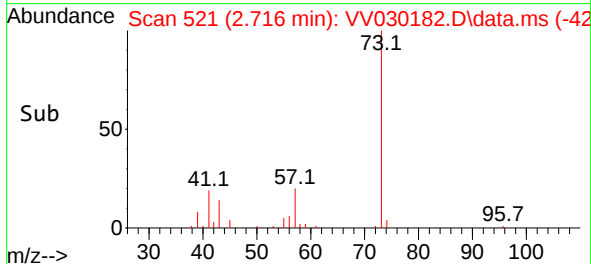
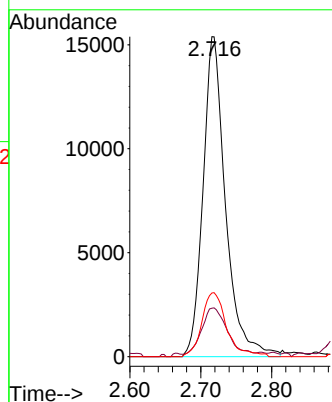
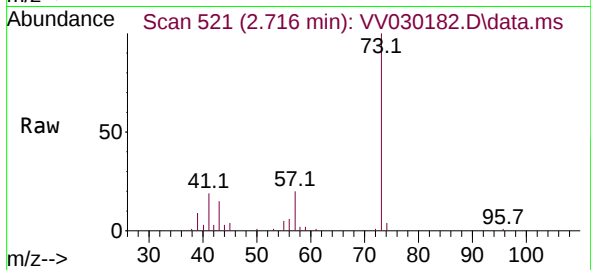




#17
Methyl tert-butyl Ether
Concen: 1.728 ug/L
RT: 2.716 min Scan# 51
Delta R.T. 0.006 min
Lab File: VV030182.D
Acq: 13 Mar 2023 17:28

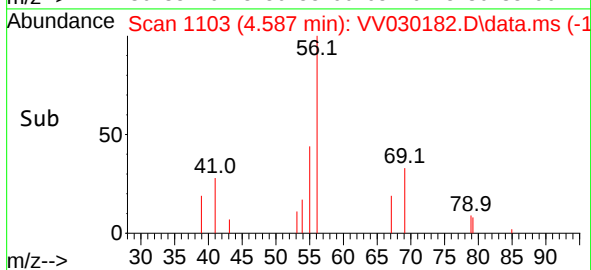
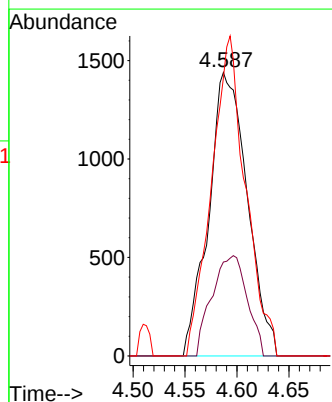
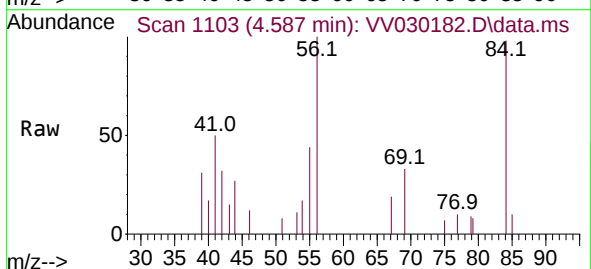
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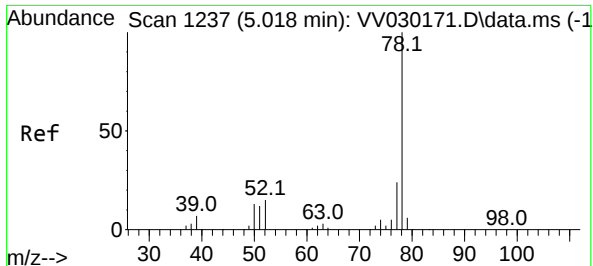
Tgt Ion: 73	Resp: 33931
Ion Ratio	Lower Upper
73 100	
43 16.8	13.4 20.2
57 22.1	16.8 25.2



#30
Cyclohexane
Concen: 0.240 ug/L
RT: 4.587 min Scan# 1103
Delta R.T. -0.006 min
Lab File: VV030182.D
Acq: 13 Mar 2023 17:28

Tgt Ion: 56	Resp: 3713
Ion Ratio	Lower Upper
56 100	
69 32.3	25.1 37.7
84 100.3	74.6 111.8

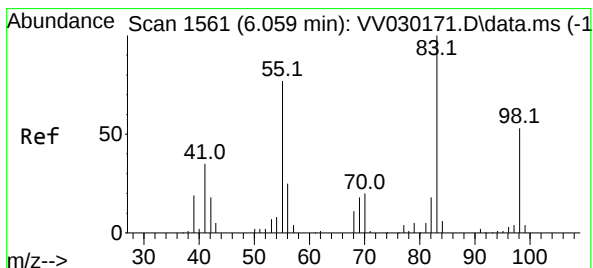
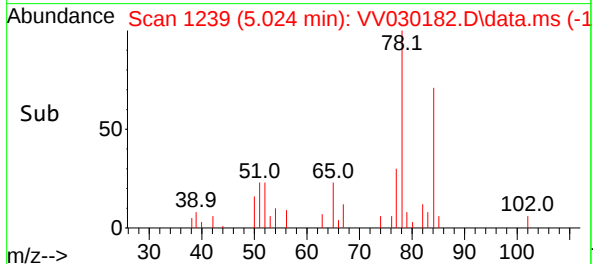
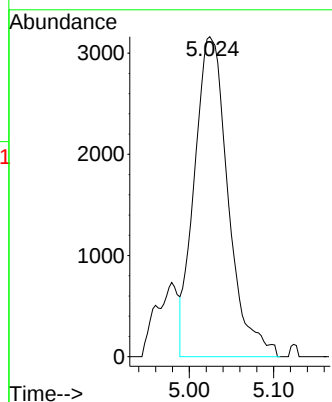
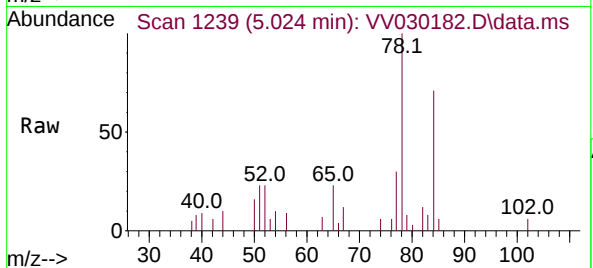




#33
Benzene
Concen: 0.211 ug/L
RT: 5.024 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV030182.D
Acq: 13 Mar 2023 17:28

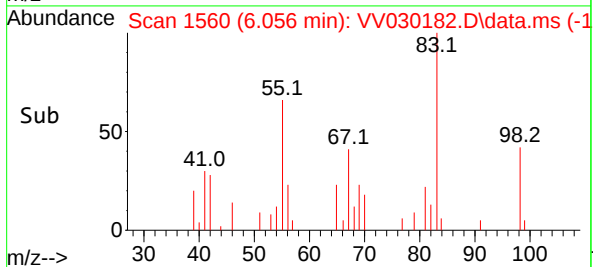
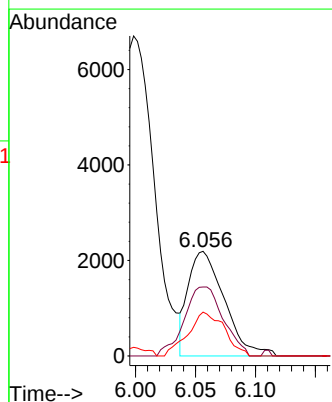
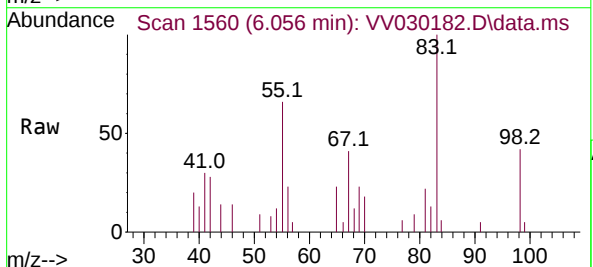
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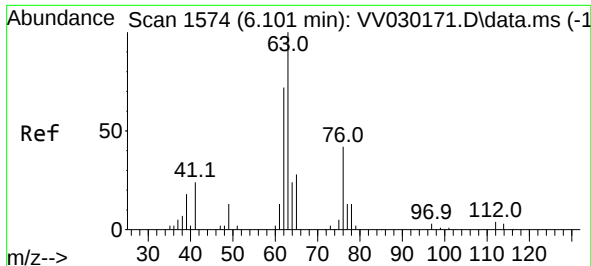
Tgt Ion: 78 Resp: 8790



#35
Methylcyclohexane
Concen: 0.260 ug/L
RT: 6.056 min Scan# 1560
Delta R.T. -0.003 min
Lab File: VV030182.D
Acq: 13 Mar 2023 17:28

Tgt Ion: 83 Resp: 4600
Ion Ratio Lower Upper
83 100
55 71.0 57.6 86.4
98 42.0 38.8 58.2





#37

1,2-Dichloropropane

Concen: 0.615 ug/L

RT: 6.002 min Scan# 11

Delta R.T. -0.100 min

Lab File: VV030182.D

Acq: 13 Mar 2023 17:28

Instrument :

MSVOA_V

ClientSampleId :

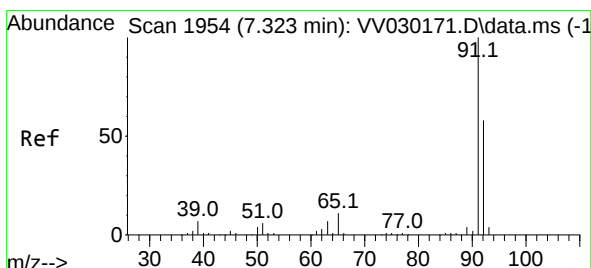
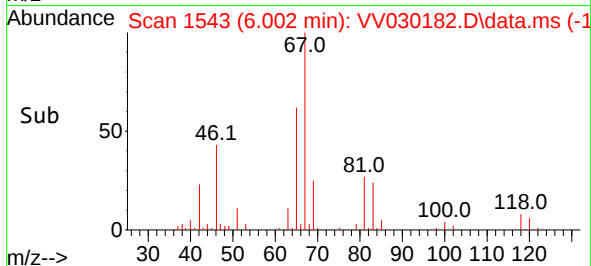
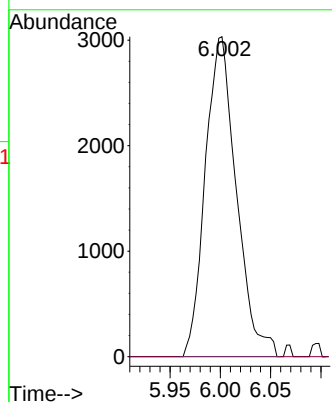
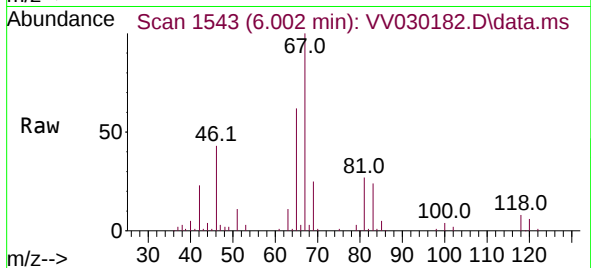
CB908

Tgt Ion: 63 Resp: 6520

Ion Ratio Lower Upper

63 100

112 0.3 3.8 5.6#



#42

Toluene

Concen: 0.195 ug/L

RT: 7.330 min Scan# 1956

Delta R.T. 0.006 min

Lab File: VV030182.D

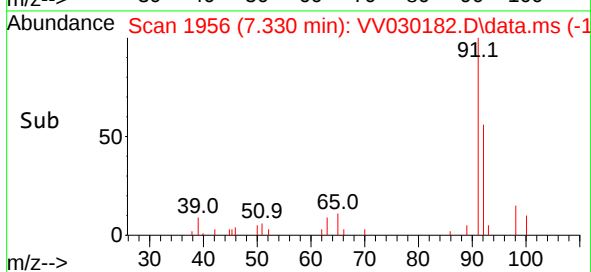
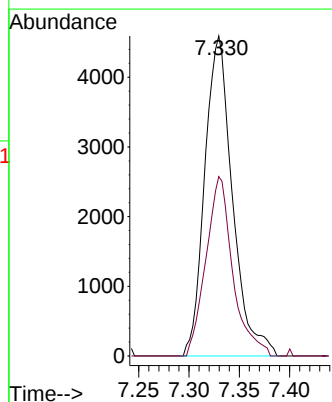
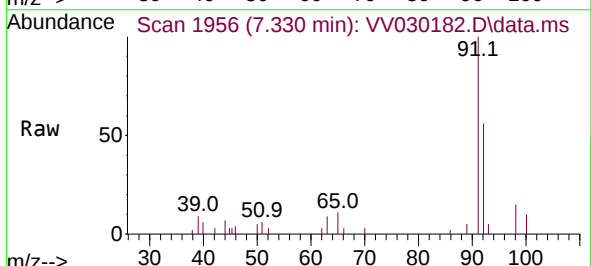
Acq: 13 Mar 2023 17:28

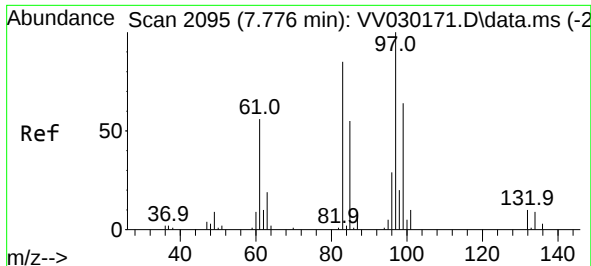
Tgt Ion: 91 Resp: 8793

Ion Ratio Lower Upper

91 100

92 56.0 39.6 73.6

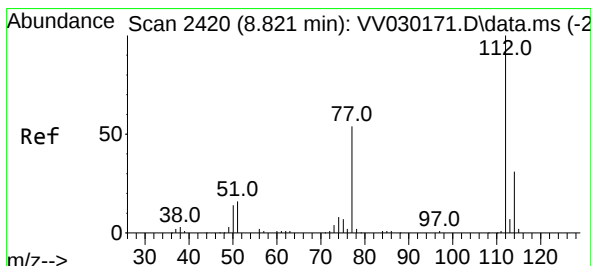
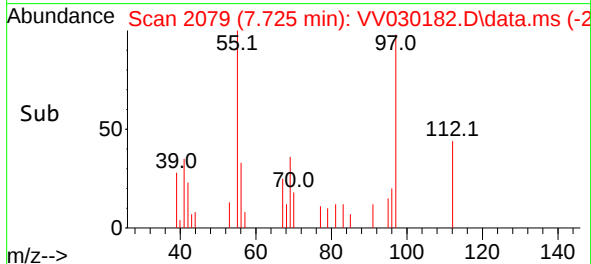
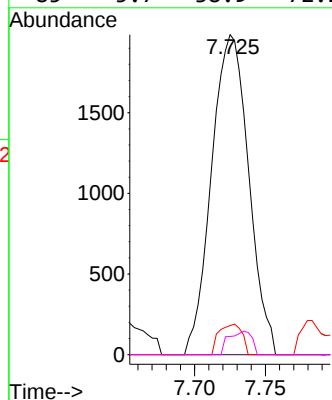
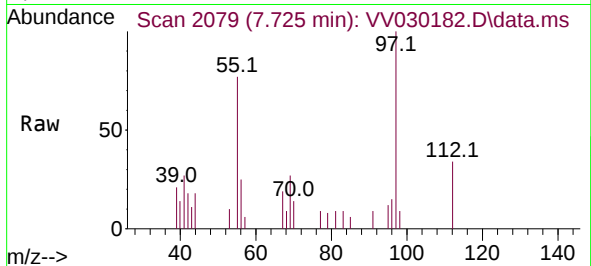




#45
1,1,2-Trichloroethane
Concen: 0.477 ug/L
RT: 7.725 min Scan# 2095
Delta R.T. -0.051 min
Lab File: VV030182.D
Acq: 13 Mar 2023 17:28

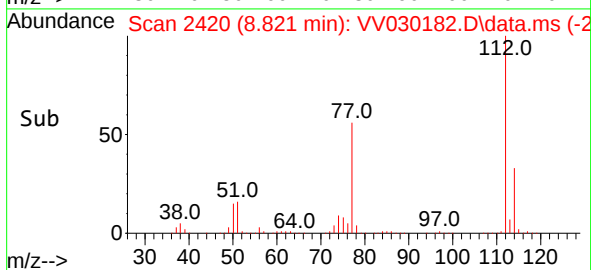
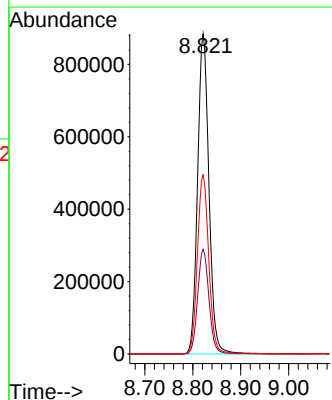
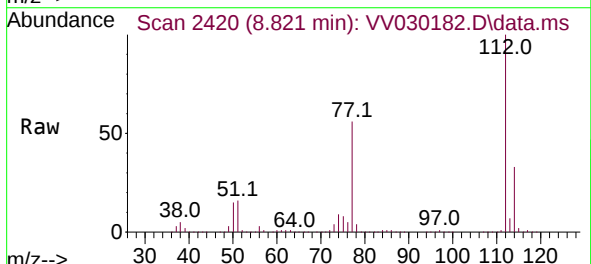
Instrument :
MSVOA_V
ClientSampleId :
CB908

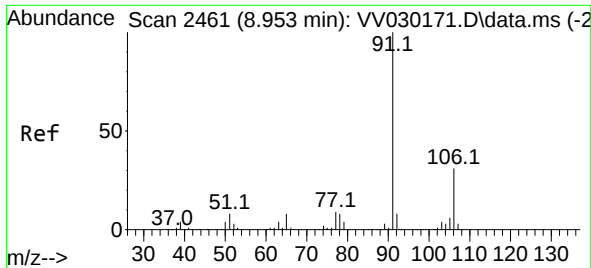
Tgt Ion: 97	Resp: 3618
Ion Ratio	Lower Upper
97 100	
99 0.0	42.6 79.2#
83 9.1	57.7 107.3#
85 5.7	38.9 72.2#



#51
Chlorobenzene
Concen: 47.747 ug/L
RT: 8.821 min Scan# 2420
Delta R.T. 0.000 min
Lab File: VV030182.D
Acq: 13 Mar 2023 17:28

Tgt Ion: 112	Resp: 1452584
Ion Ratio	Lower Upper
112 100	
114 32.7	22.5 41.7
77 56.0	45.3 67.9





#52

Ethylbenzene

Concen: 0.102 ug/L

RT: 8.956 min Scan# 2461

Delta R.T. 0.003 min

Lab File: VV030182.D

Acq: 13 Mar 2023 17:28

Instrument :

MSVOA_V

ClientSampleId :

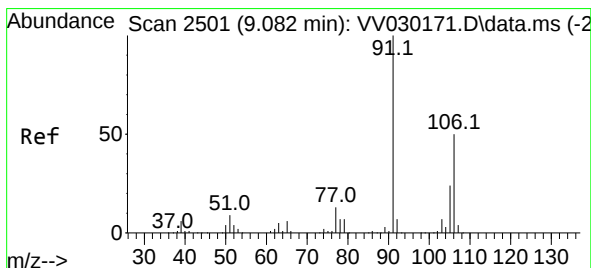
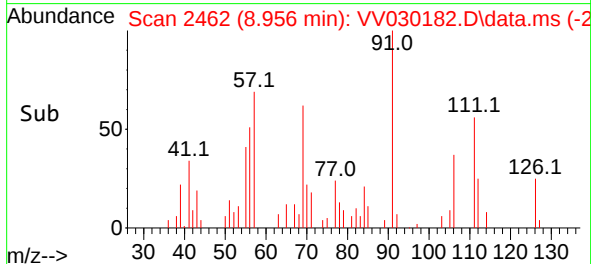
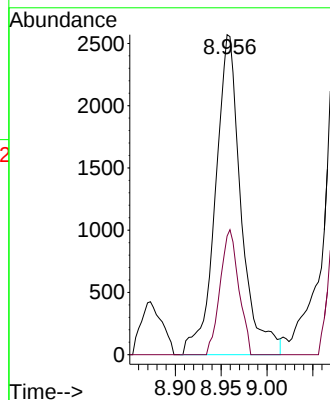
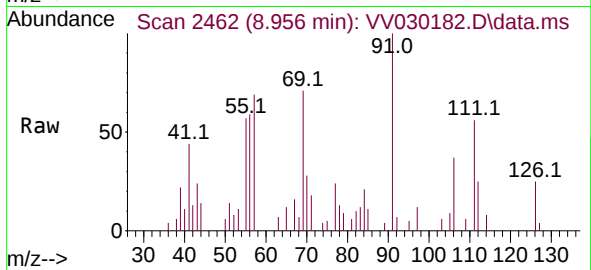
CB908

Tgt Ion: 91 Resp: 5000

Ion Ratio Lower Upper

91 100

106 37.0 22.0 40.8



#53

m,p-Xylene

Concen: 0.192 ug/L

RT: 9.082 min Scan# 2501

Delta R.T. 0.000 min

Lab File: VV030182.D

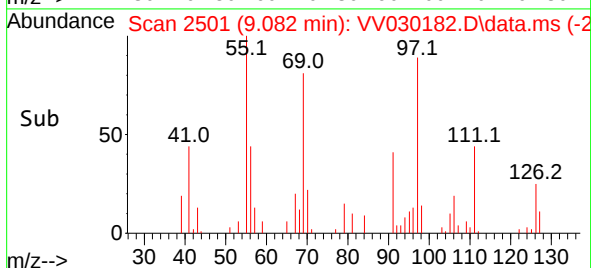
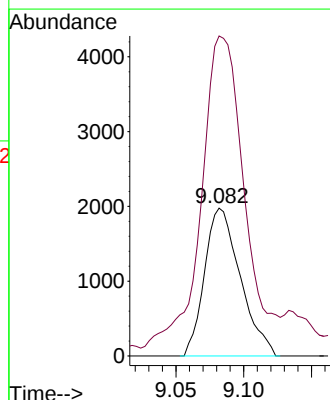
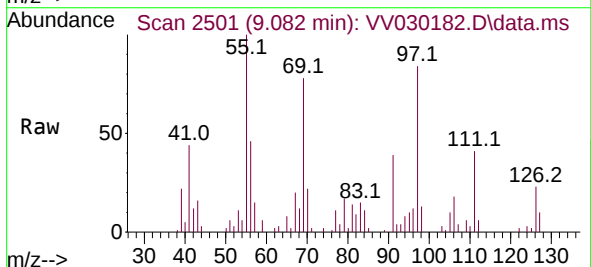
Acq: 13 Mar 2023 17:28

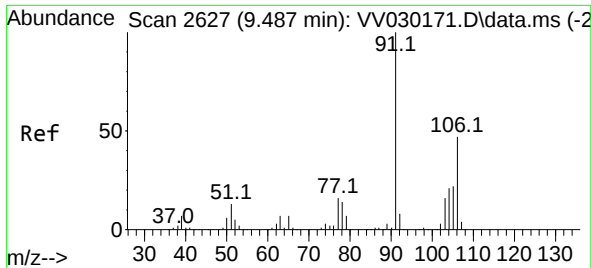
Tgt Ion: 106 Resp: 3627

Ion Ratio Lower Upper

106 100

91 216.3 142.5 264.7

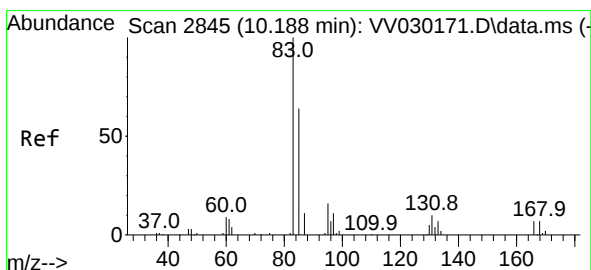
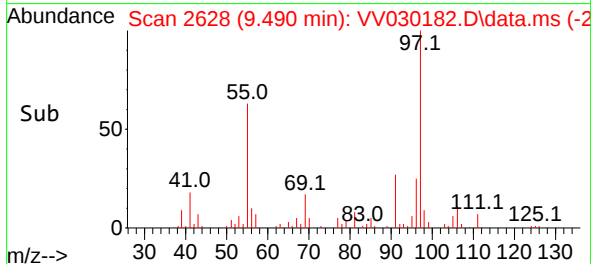
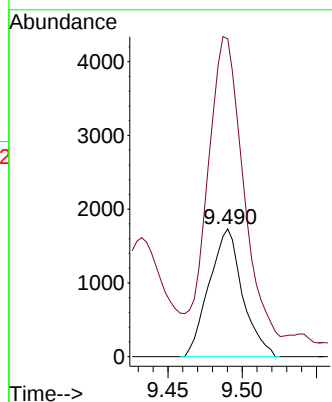
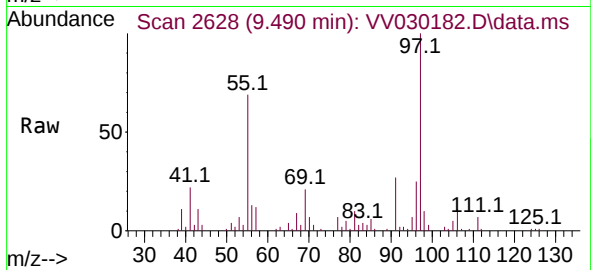




#54
o-Xylene
Concen: 0.150 ug/L
RT: 9.490 min Scan# 2628
Delta R.T. 0.003 min
Lab File: VV030182.D
Acq: 13 Mar 2023 17:28

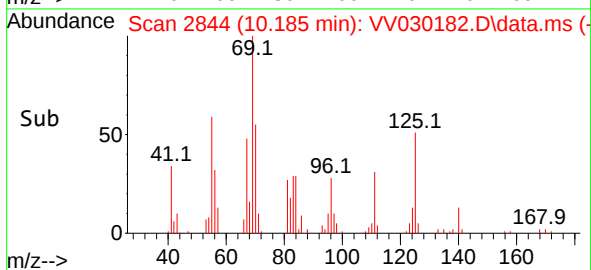
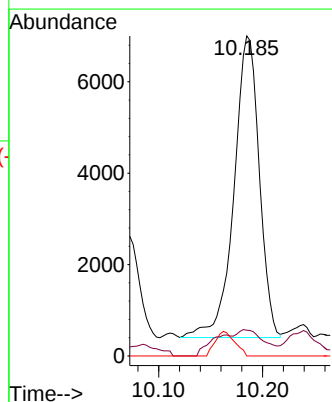
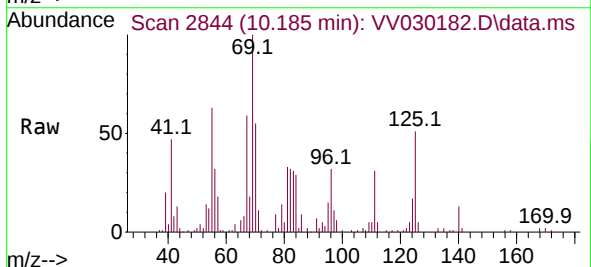
Instrument :
MSVOA_V
ClientSampleId :
CB908

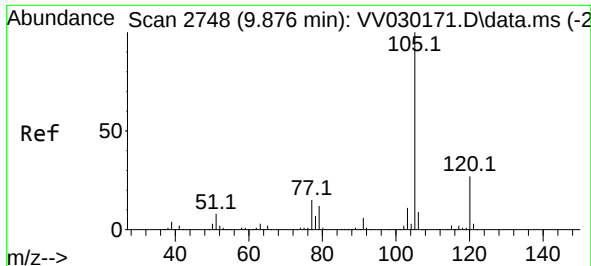
Tgt Ion:106 Resp: 2704
Ion Ratio Lower Upper
106 100
91 248.7 148.8 276.4



#57
1,1,2,2-Tetrachloroethane
Concen: 1.315 ug/L
RT: 10.185 min Scan# 2844
Delta R.T. -0.003 min
Lab File: VV030182.D
Acq: 13 Mar 2023 17:28

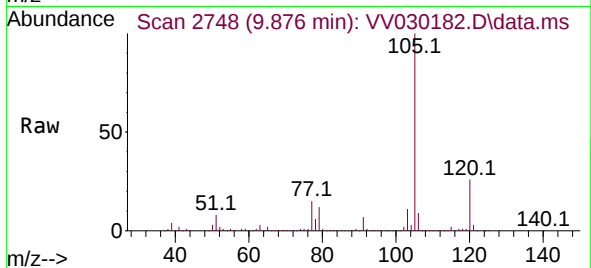
Tgt Ion: 83 Resp: 11150
Ion Ratio Lower Upper
83 100
85 8.1 45.0 83.6#
131 0.0 8.2 12.4#



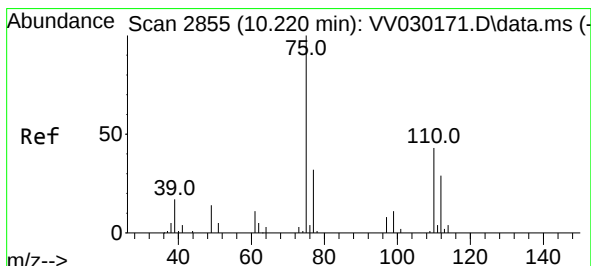
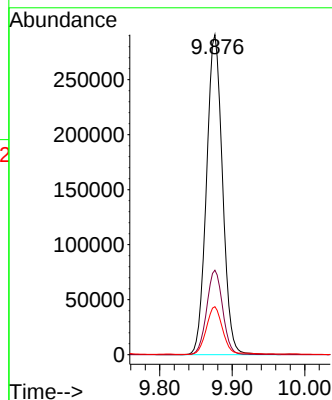
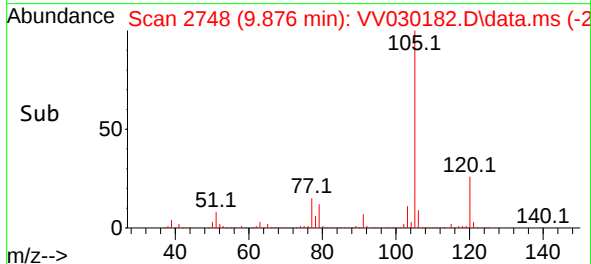


#60
Isopropylbenzene
Concen: 7.960 ug/L
RT: 9.876 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV030182.D
Acq: 13 Mar 2023 17:28

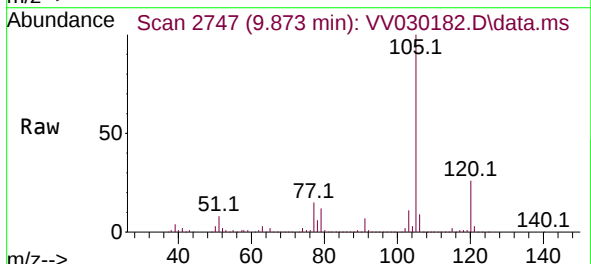
Instrument :
MSVOA_V
ClientSampleId :
CB908



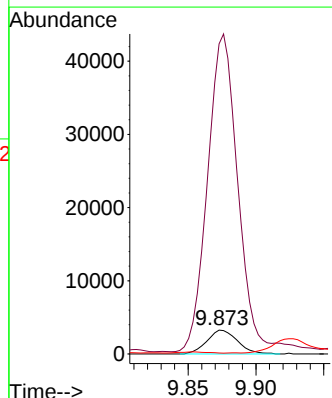
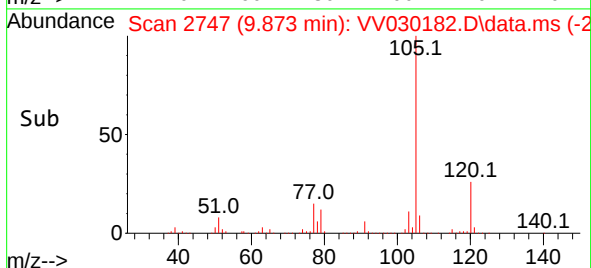
Tgt Ion:105 Resp: 446753
Ion Ratio Lower Upper
105 100
120 26.4 21.4 32.0
77 15.3 12.1 18.1

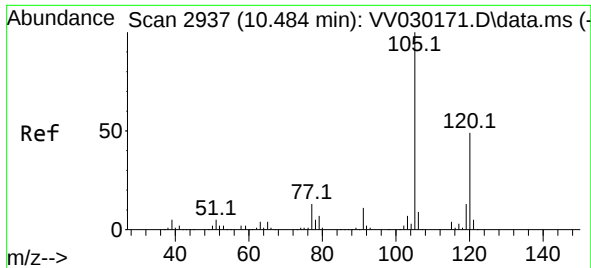


#61
1,2,3-Trichloropropane
Concen: 0.782 ug/L
RT: 9.873 min Scan# 2747
Delta R.T. -0.347 min
Lab File: VV030182.D
Acq: 13 Mar 2023 17:28



Tgt Ion: 75 Resp: 5107
Ion Ratio Lower Upper
75 100
77 1336.6 26.5 39.7#
110 4.4 31.8 47.6#





#62

1,3,5-Trimethylbenzene

Concen: 1.404 ug/L

RT: 10.484 min Scan# 2937

Delta R.T. 0.000 min

Lab File: VV030182.D

Acq: 13 Mar 2023 17:28

Instrument :

MSVOA_V

ClientSampleId :

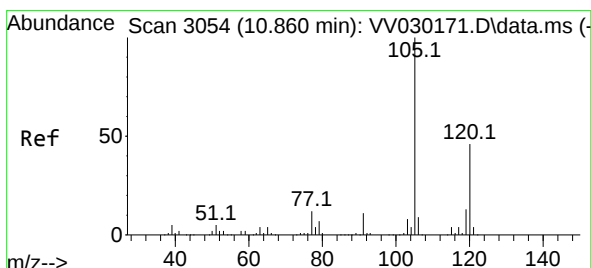
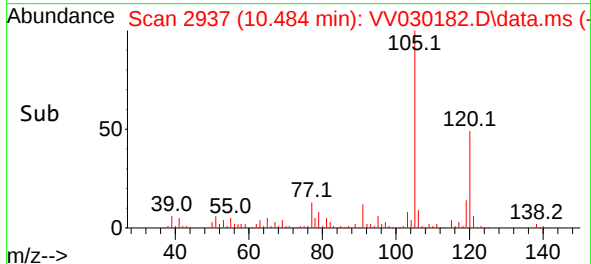
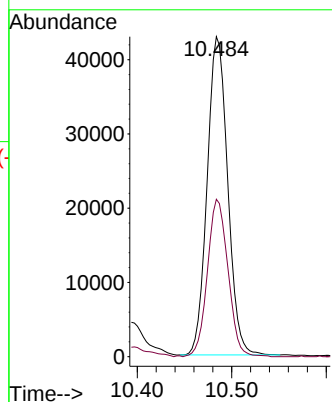
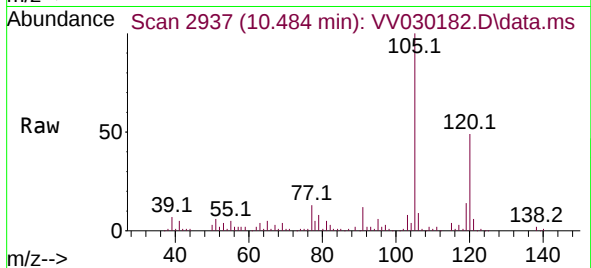
CB908

Tgt Ion:105 Resp: 64748

Ion Ratio Lower Upper

105 100

120 49.6 39.6 59.4



#63

1,2,4-Trimethylbenzene

Concen: 1.209 ug/L

RT: 10.860 min Scan# 3054

Delta R.T. 0.000 min

Lab File: VV030182.D

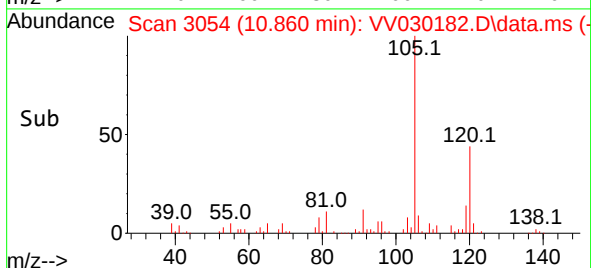
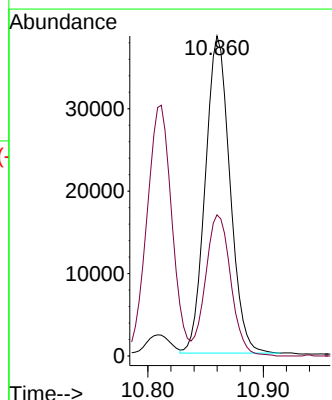
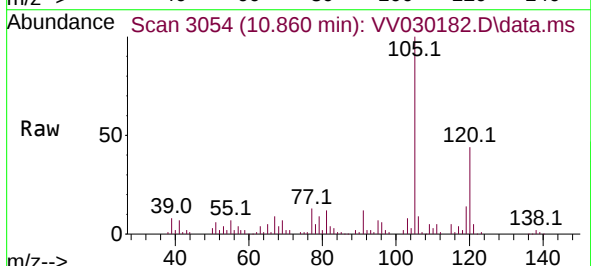
Acq: 13 Mar 2023 17:28

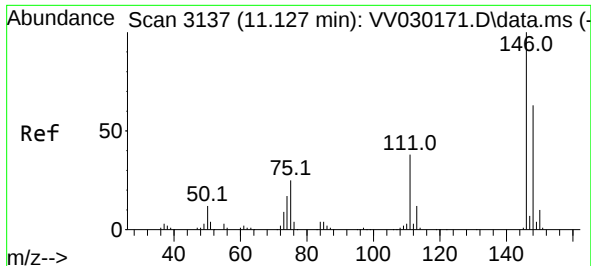
Tgt Ion:105 Resp: 56998

Ion Ratio Lower Upper

105 100

120 45.5 36.2 54.4

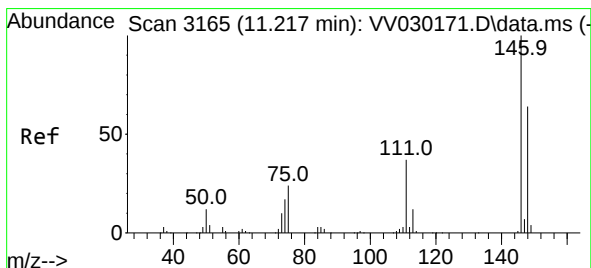
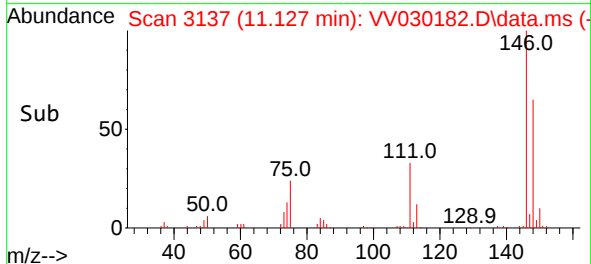
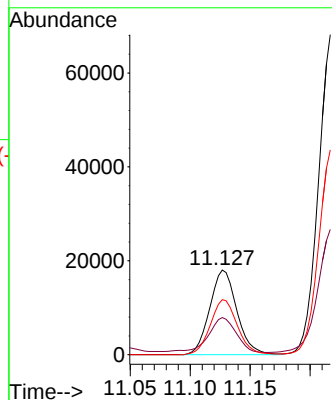
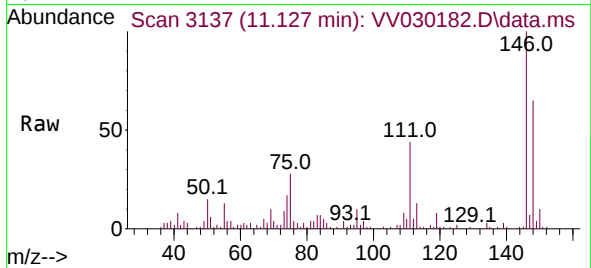




#64
1,3-Dichlorobenzene
Concen: 0.969 ug/L
RT: 11.127 min Scan# 3137
Delta R.T. 0.000 min
Lab File: VV030182.D
Acq: 13 Mar 2023 17:28

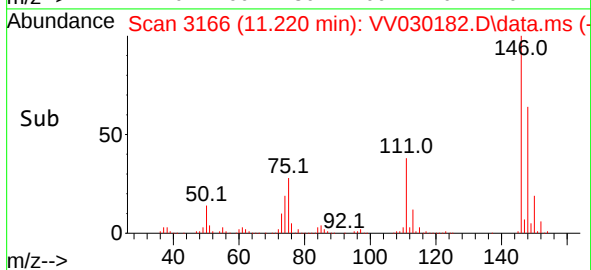
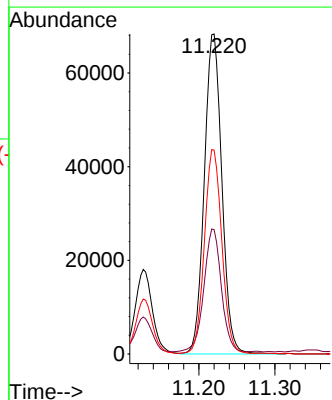
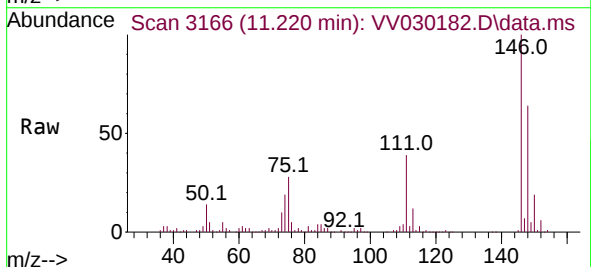
Instrument :
MSVOA_V
ClientSampleId :
CB908

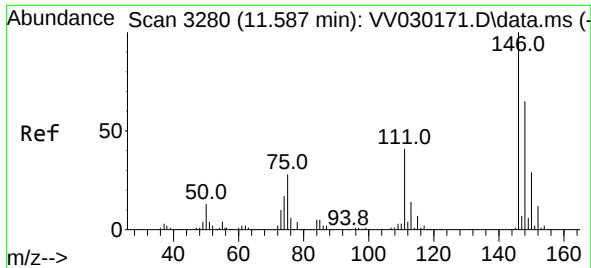
Tgt Ion:146 Resp: 28329
Ion Ratio Lower Upper
146 100
111 43.8 27.7 51.5
148 65.0 44.5 82.7



#65
1,4-Dichlorobenzene
Concen: 3.716 ug/L
RT: 11.220 min Scan# 3166
Delta R.T. 0.003 min
Lab File: VV030182.D
Acq: 13 Mar 2023 17:28

Tgt Ion:146 Resp: 109581
Ion Ratio Lower Upper
146 100
111 38.9 27.4 51.0
148 63.7 44.1 81.9





#67

1,2-Dichlorobenzene

Concen: 0.349 ug/L

RT: 11.590 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV030182.D

Acq: 13 Mar 2023 17:28

Instrument :

MSVOA_V

ClientSampleId :

CB908

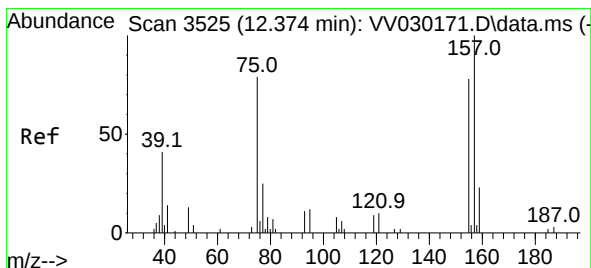
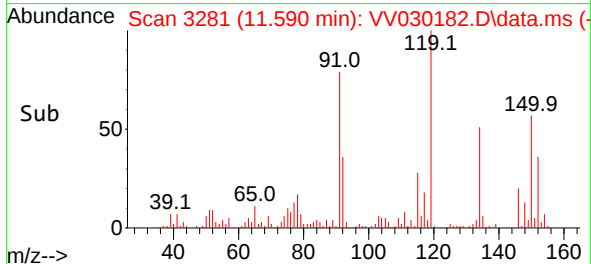
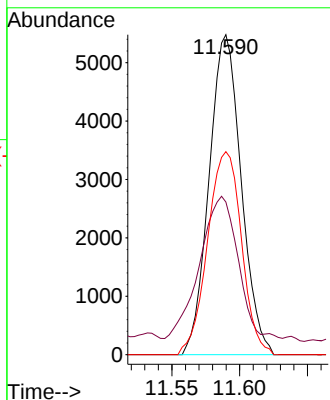
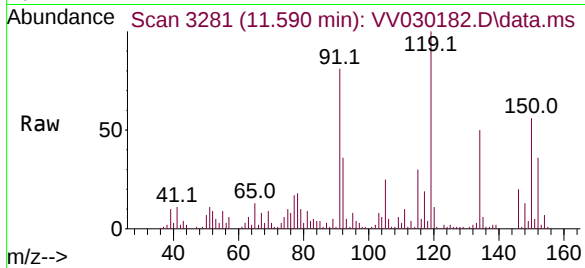
Tgt Ion:146 Resp: 9018

Ion Ratio Lower Upper

146 100

111 47.7 33.5 50.3

148 63.4 51.3 76.9



#68

1,2-Dibromo-3-chloropropane

Concen: 3.416 ug/L

RT: 12.361 min Scan# 3521

Delta R.T. -0.013 min

Lab File: VV030182.D

Acq: 13 Mar 2023 17:28

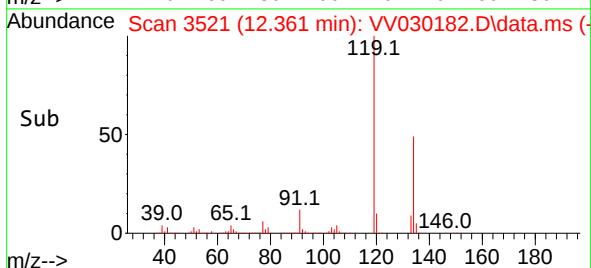
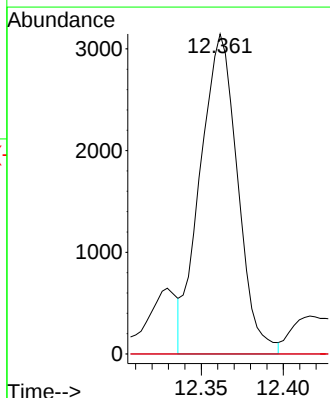
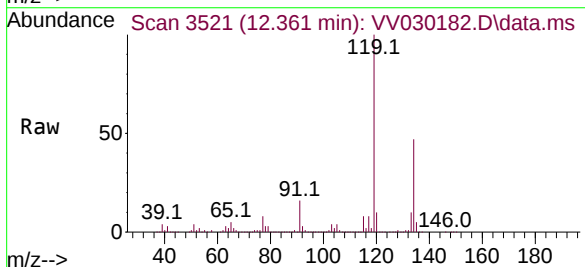
Tgt Ion: 75 Resp: 4981

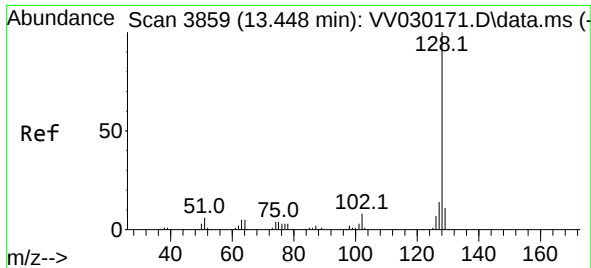
Ion Ratio Lower Upper

75 100

155 0.0 79.1 118.7#

157 0.0 95.5 143.3#





#71
Naphthalene
Concen: 0.260 ug/L
RT: 13.439 min Scan# 3856
Delta R.T. -0.010 min
Lab File: VV030182.D
Acq: 13 Mar 2023 17:28

Instrument :
MSVOA_V
ClientSampleId :
CB908

Tgt Ion:128 Resp: 6603
Ion Ratio Lower Upper
128 100
129 53.2 8.6 13.0#
127 29.5 10.4 15.6#

