

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV031623\
 Data File : VV030225.D
 Acq On : 16 Mar 2023 16:10
 Operator : SY/MD
 Sample : 01947-01
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 CB929

Quant Time: Mar 17 05:49:18 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR022323WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Mar 17 05:46:57 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.545	114	114587	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.792	117	106592	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.194	152	57279	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	32714	4.412	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	88.200%
7) Chloroethane-d5	1.535	69	29606	4.254	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	85.000%
11) 1,1-Dichloroethene-d2	2.063	63	51597	3.385	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	67.600%
20) 2-Butanone-d5	3.847	46	56195	41.109	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	82.220%
24) Chloroform-d	4.262	84	67016	4.425	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.400%
26) 1,2-Dichloroethane-d4	4.953	65	34331	5.553	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	111.000%
32) Benzene-d6	4.969	84	123676	4.312	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.200%
36) 1,2-Dichloropropane-d6	5.998	67	39210	4.544	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	90.800%
41) Toluene-d8	7.252	98	101788	3.744	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	74.800%
43) trans-1,3-Dichloroprop...	7.561	79	14368	4.867	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	97.400%
46) 2-Hexanone-d5	8.040	63	57582	47.147	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	94.300%
56) 1,1,2,2-Tetrachloroeth...	10.162	84	32047	5.221	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	104.400%
66) 1,2-Dichlorobenzene-d4	11.570	152	41439	4.276	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	85.600%
Target Compounds						
					Qvalue	
3) Chloromethane	1.217	50	3332	0.227	ug/L	96
5) Vinyl chloride	1.285	62	2762	0.283	ug/L #	81
6) Bromomethane	1.490	94	609	0.347	ug/L	84
8) Chloroethane	1.545	64	60950	10.246	ug/L #	52
13) Acetone	2.188	43	2409	2.384	ug/L	69
14) Carbon disulfide	2.246	76	4316	0.210	ug/L	95
17) Methyl tert-butyl Ether	2.715	73	17423	1.159	ug/L #	83
22) cis-1,2-Dichloroethene	3.841	96	1008	0.125	ug/L #	15
30) Cyclohexane	4.583	56	3584	0.331	ug/L #	17
33) Benzene	5.024	78	11119	0.382	ug/L	100
35) Methylcyclohexane	6.059	83	13452	1.090	ug/L	93
42) Toluene	7.329	91	7946	0.252	ug/L	95
45) 1,1,2-Trichloroethane	7.728	97	2691	0.508	ug/L #	24
48) 2-Hexanone	8.037	43	8725	3.988	ug/L #	56
51) Chlorobenzene	8.821	112	1054958	49.613	ug/L	97
52) Ethylbenzene	8.956	91	2433	0.071	ug/L	88
53) m,p-Xylene	9.085	106	5437	0.412	ug/L	100
54) o-Xylene	9.487	106	5141	0.408	ug/L	92
57) 1,1,2,2-Tetrachloroethane	10.185	83	5753	0.971	ug/L #	36

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV031623\
 Data File : VV030225.D
 Acq On : 16 Mar 2023 16:10
 Operator : SY/MD
 Sample : 01947-01
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 CB929

Quant Time: Mar 17 05:49:18 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR022323WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Mar 17 05:46:57 2023
 Response via : Initial Calibration

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

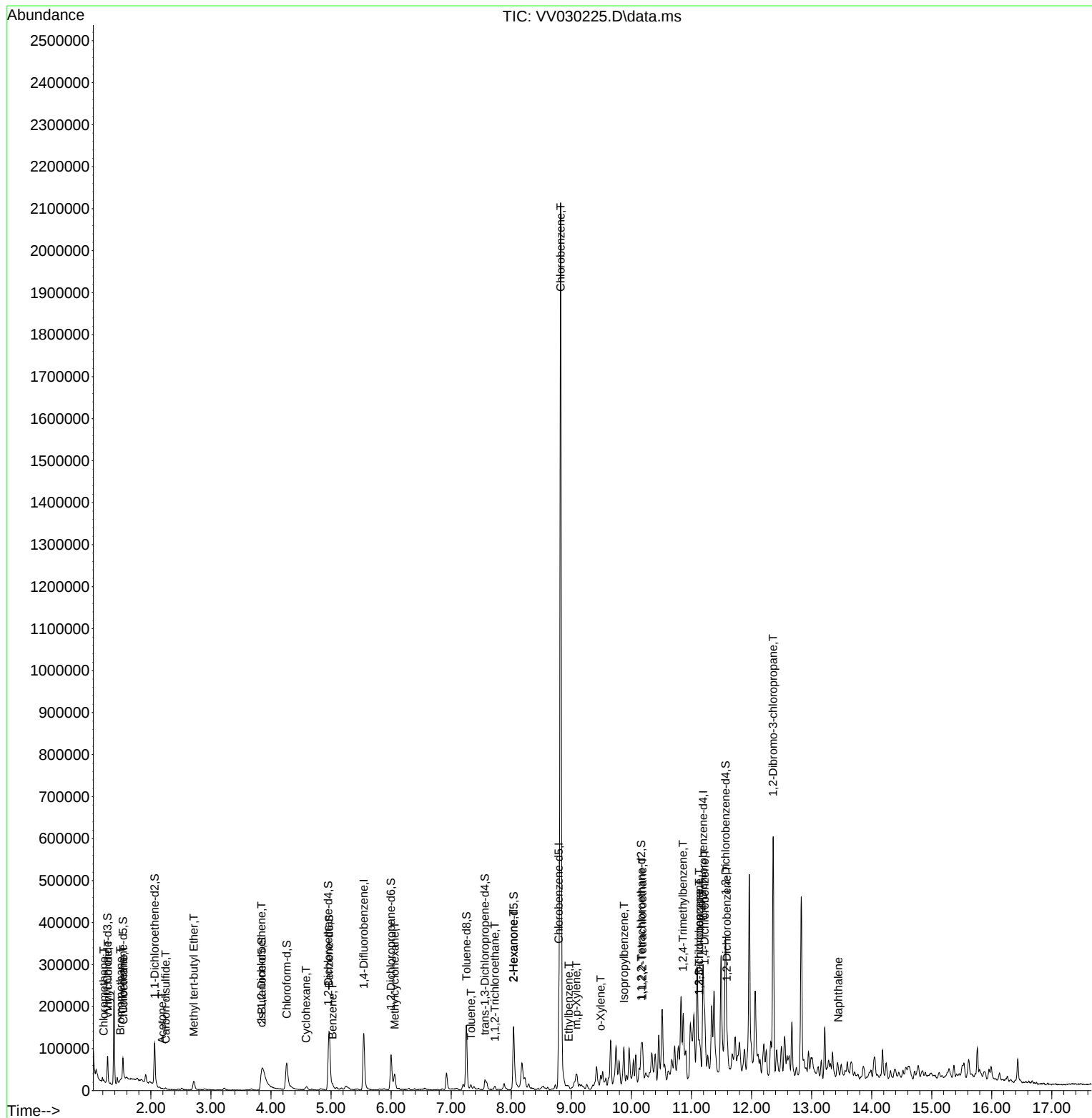
60) Isopropylbenzene	9.876	105	50960	1.546	ug/L #	85
61) 1,2,3-Trichloropropane	11.127	75	6699	1.747	ug/L #	55
63) 1,2,4-Trimethylbenzene	10.860	105	4595	0.166	ug/L	90
64) 1,3-Dichlorobenzene	11.127	146	21799	1.270	ug/L	92
65) 1,4-Dichlorobenzene	11.220	146	45198	2.610	ug/L	96
67) 1,2-Dichlorobenzene	11.590	146	4712	0.311	ug/L #	84
68) 1,2-Dibromo-3-chloropr...	12.358	75	2902	3.389	ug/L #	1
71) Naphthalene	13.445	128	3352	0.224	ug/L #	16

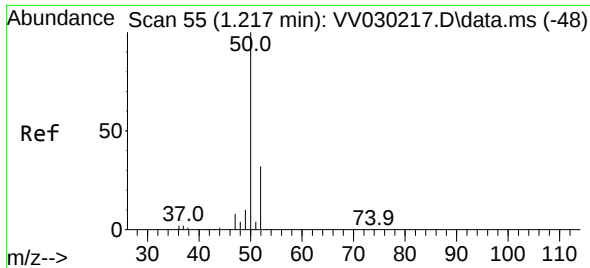
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV031623\
Data File : VV030225.D
Acq On : 16 Mar 2023 16:10
Operator : SY/MD
Sample : 01947-01
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
CB929

Quant Time: Mar 17 05:49:18 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR022323WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Fri Mar 17 05:46:57 2023
Response via : Initial Calibration

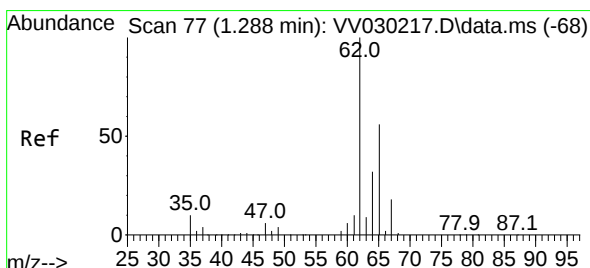
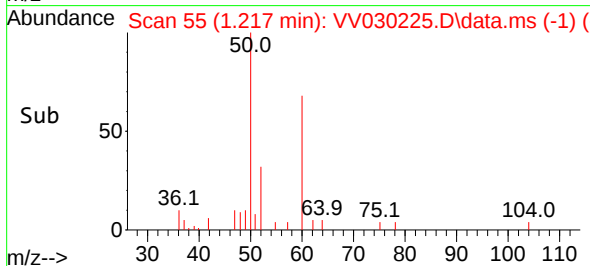
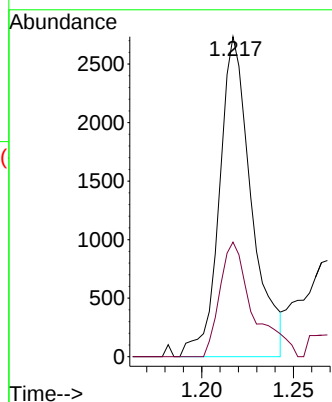
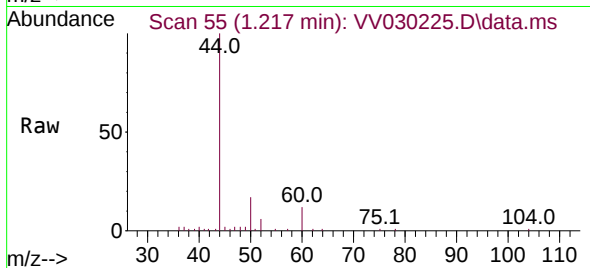




#3
Chloromethane
Concen: 0.227 ug/L
RT: 1.217 min Scan# 51
Delta R.T. -0.000 min
Lab File: VV030225.D
Acq: 16 Mar 2023 16:10

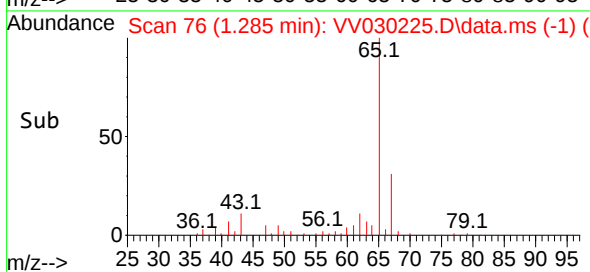
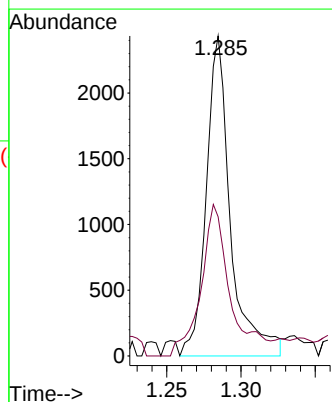
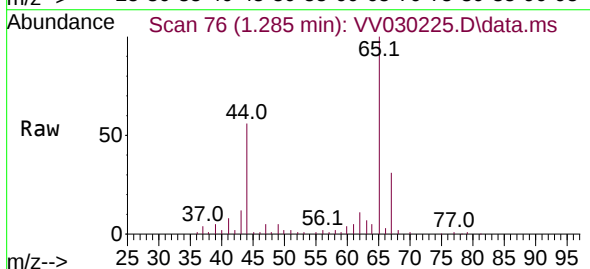
Instrument :
MSVOA_V
ClientSampleId :
CB929

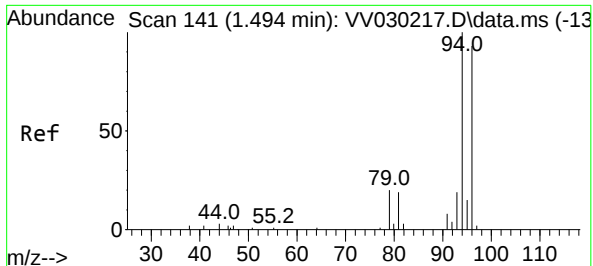
Tgt Ion: 50 Resp: 3332
Ion Ratio Lower Upper
50 100
52 35.8 23.6 43.8



#5
Vinyl chloride
Concen: 0.283 ug/L
RT: 1.285 min Scan# 76
Delta R.T. -0.003 min
Lab File: VV030225.D
Acq: 16 Mar 2023 16:10

Tgt Ion: 62 Resp: 2762
Ion Ratio Lower Upper
62 100
64 43.5 23.1 42.9#

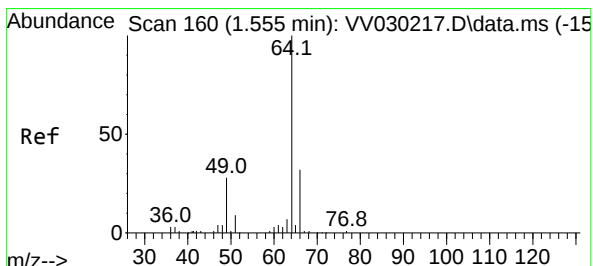
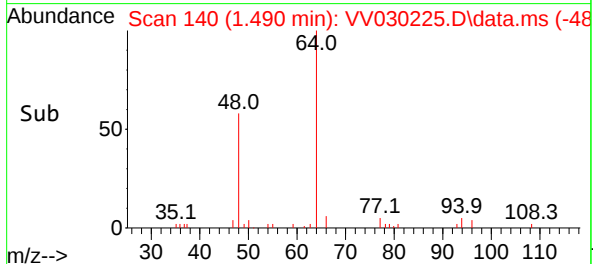
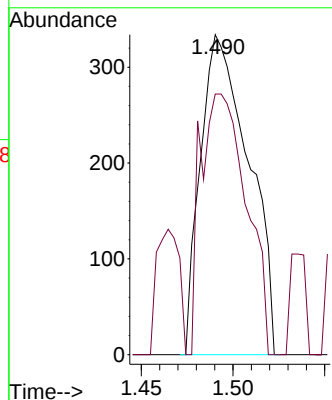
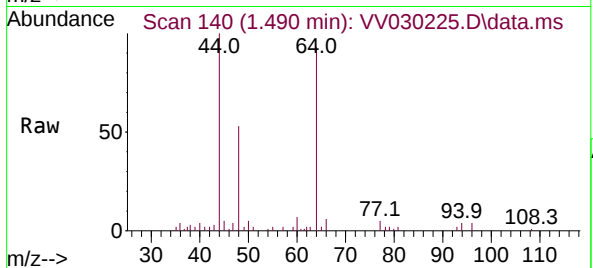




#6
Bromomethane
Concen: 0.347 ug/L
RT: 1.490 min Scan# 141
Delta R.T. -0.003 min
Lab File: VV030225.D
Acq: 16 Mar 2023 16:10

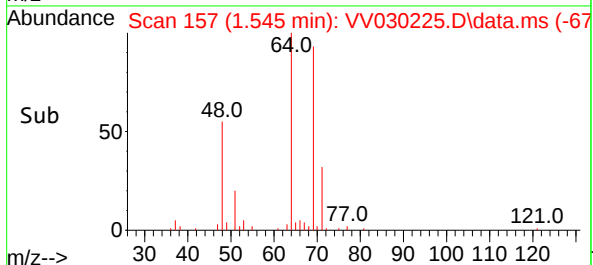
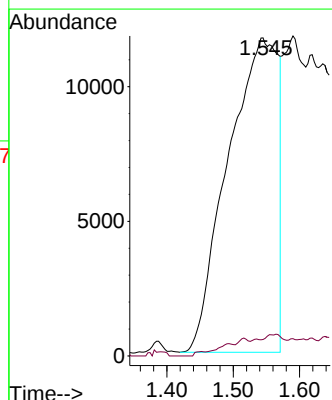
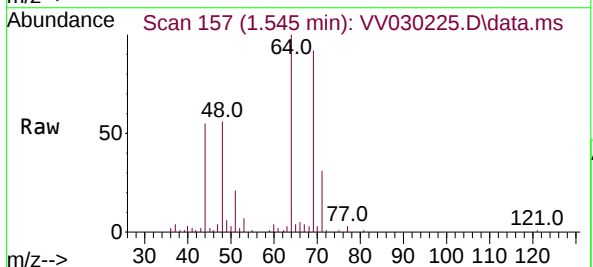
Instrument :
MSVOA_V
ClientSampleId :
CB929

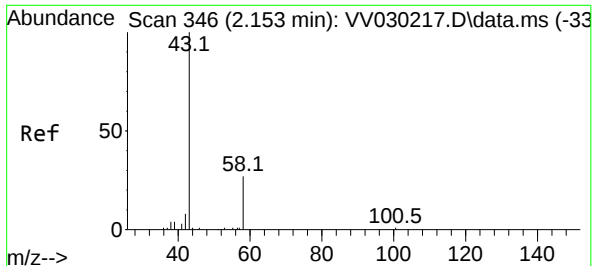
Tgt Ion: 94 Resp: 609
Ion Ratio Lower Upper
94 100
96 81.4 68.4 127.0



#8
Chloroethane
Concen: 10.246 ug/L
RT: 1.545 min Scan# 157
Delta R.T. -0.010 min
Lab File: VV030225.D
Acq: 16 Mar 2023 16:10

Tgt Ion: 64 Resp: 60950
Ion Ratio Lower Upper
64 100
66 5.2 22.4 41.6#





#13

Acetone

Concen: 2.384 ug/L

RT: 2.188 min Scan# 3

Delta R.T. 0.035 min

Lab File: VV030225.D

Acq: 16 Mar 2023 16:10

Instrument :

MSVOA_V

ClientSampleId :

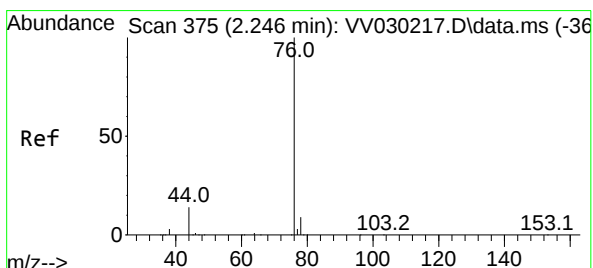
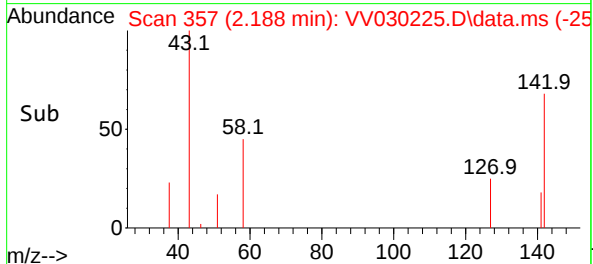
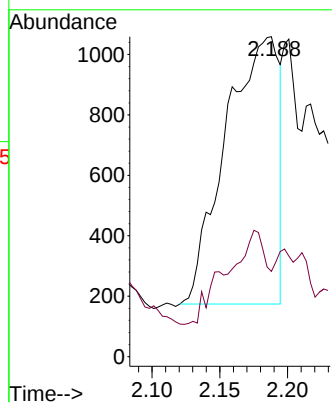
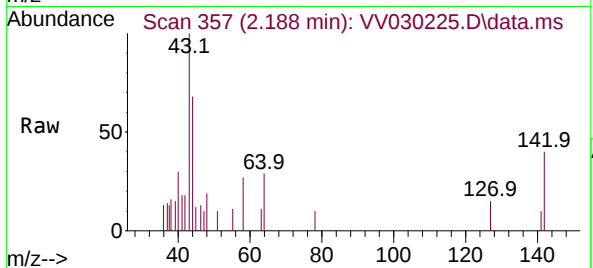
CB929

Tgt Ion: 43 Resp: 2409

Ion Ratio Lower Upper

43 100

58 2.0 0.0 29.4



#14

Carbon disulfide

Concen: 0.210 ug/L

RT: 2.246 min Scan# 375

Delta R.T. -0.000 min

Lab File: VV030225.D

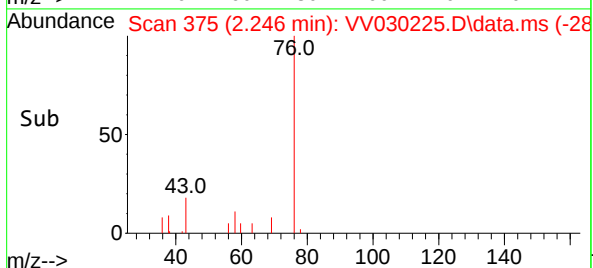
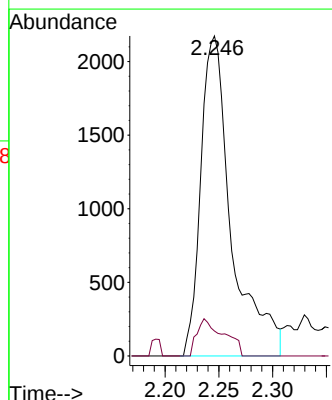
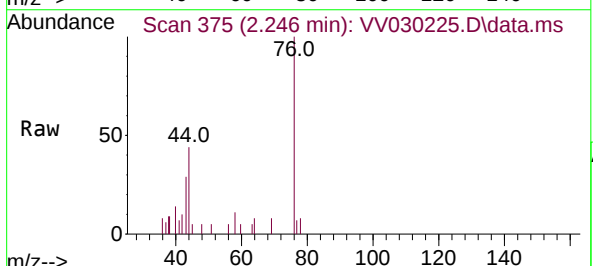
Acq: 16 Mar 2023 16:10

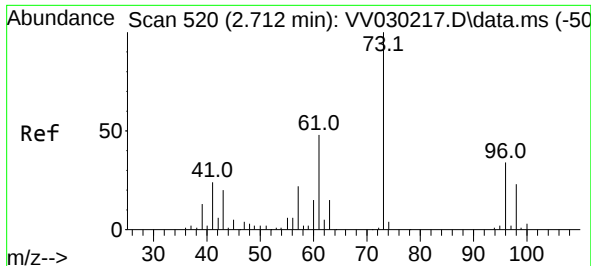
Tgt Ion: 76 Resp: 4316

Ion Ratio Lower Upper

76 100

78 7.8 7.7 11.5





#17

Methyl tert-butyl Ether

Concen: 1.159 ug/L

RT: 2.715 min Scan# 51

Delta R.T. 0.003 min

Lab File: VV030225.D

Acq: 16 Mar 2023 16:10

Instrument :

MSVOA_V

ClientSampleId :

CB929

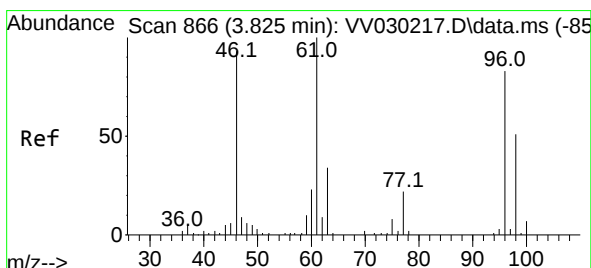
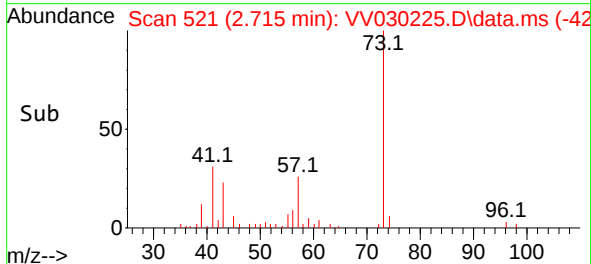
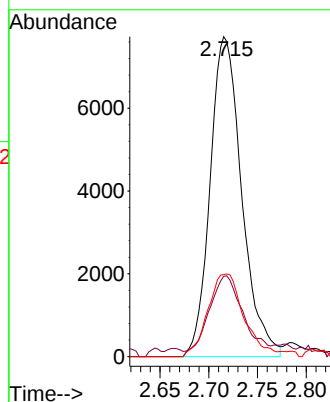
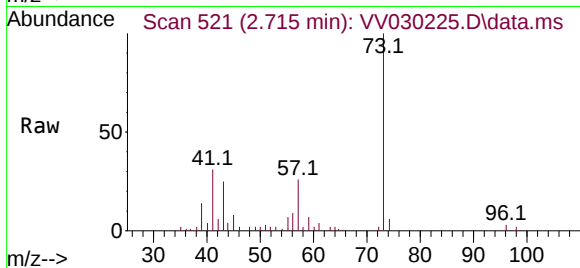
Tgt Ion: 73 Resp: 17423

Ion Ratio Lower Upper

73 100

43 24.2 13.4 20.2#

57 29.3 16.8 25.2#



#22

cis-1,2-Dichloroethene

Concen: 0.125 ug/L

RT: 3.841 min Scan# 871

Delta R.T. 0.016 min

Lab File: VV030225.D

Acq: 16 Mar 2023 16:10

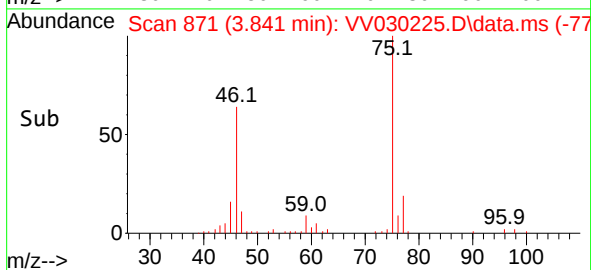
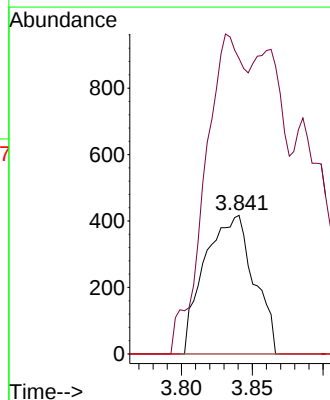
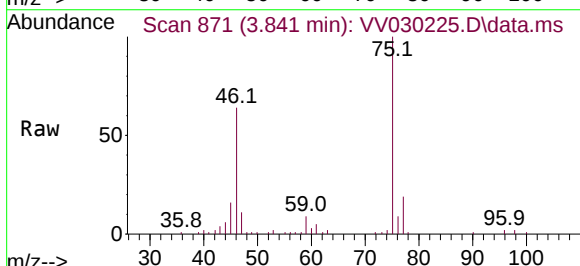
Tgt Ion: 96 Resp: 1008

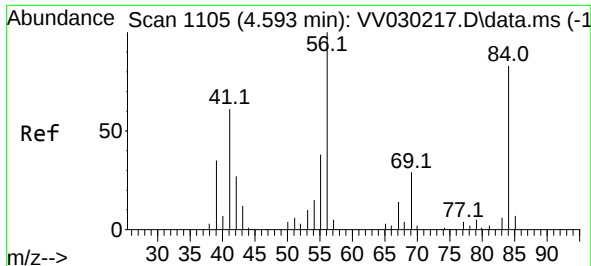
Ion Ratio Lower Upper

96 100

61 213.2 83.4 154.8#

68 0.0 0.0 0.0

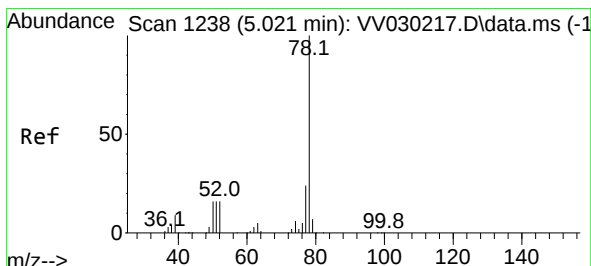
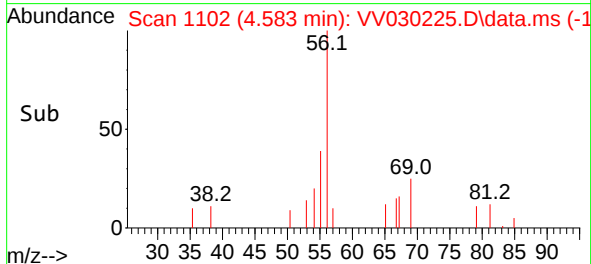
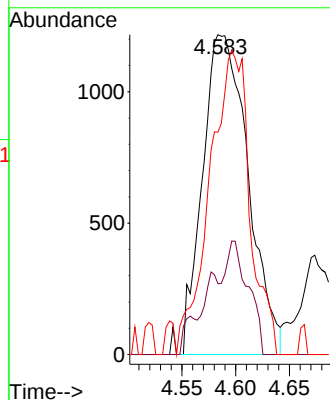
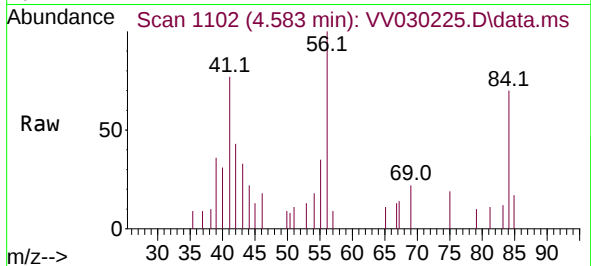




#30
Cyclohexane
Concen: 0.331 ug/L
RT: 4.583 min Scan# 1105
Delta R.T. -0.010 min
Lab File: VV030225.D
Acq: 16 Mar 2023 16:10

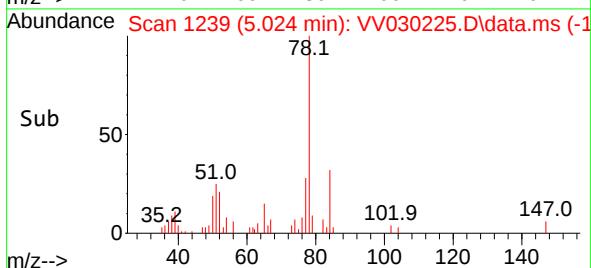
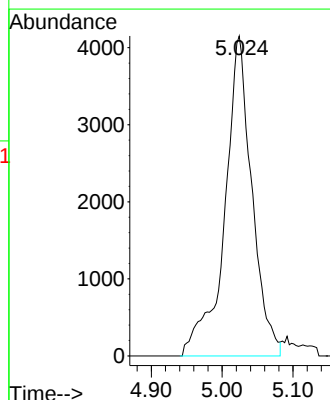
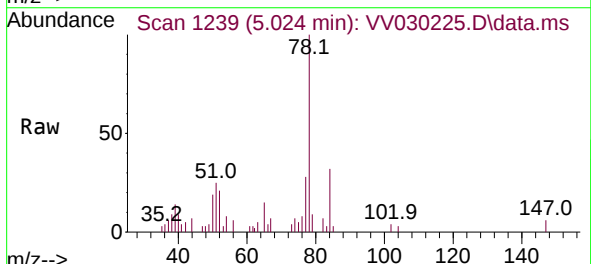
Instrument :
MSVOA_V
ClientSampleId :
CB929

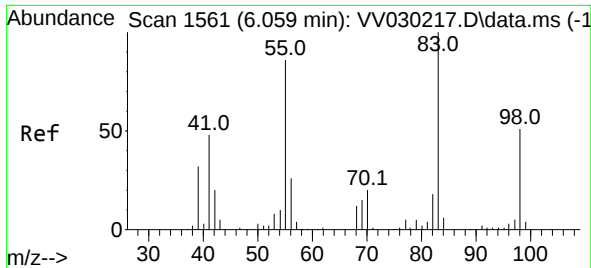
Tgt Ion: 56 Resp: 3584
Ion Ratio Lower Upper
56 100
69 7.9 25.1 37.7#
84 0.0 74.6 111.8#



#33
Benzene
Concen: 0.382 ug/L
RT: 5.024 min Scan# 1239
Delta R.T. 0.003 min
Lab File: VV030225.D
Acq: 16 Mar 2023 16:10

Tgt Ion: 78 Resp: 11119

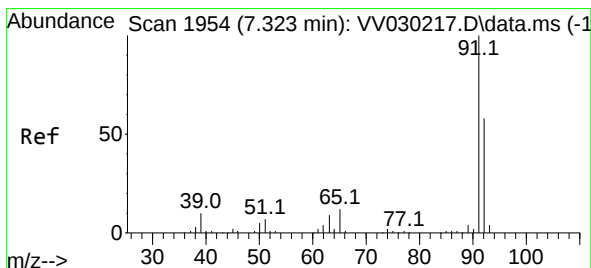
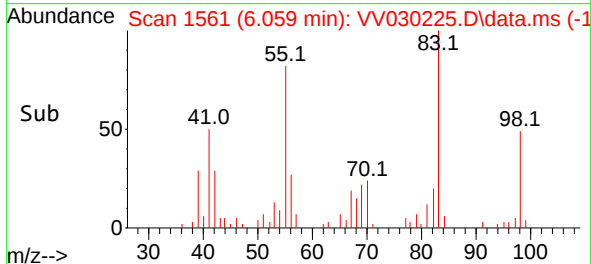
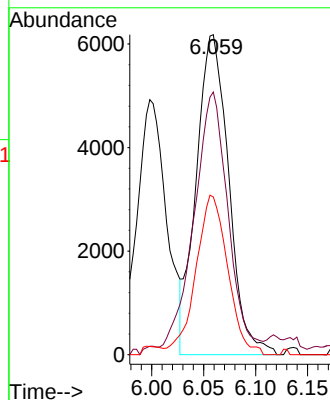
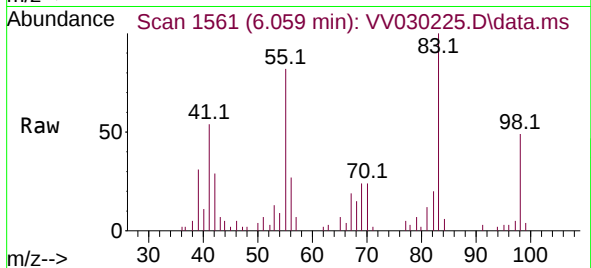




#35
Methylcyclohexane
Concen: 1.090 ug/L
RT: 6.059 min Scan# 11
Delta R.T. -0.000 min
Lab File: VV030225.D
Acq: 16 Mar 2023 16:10

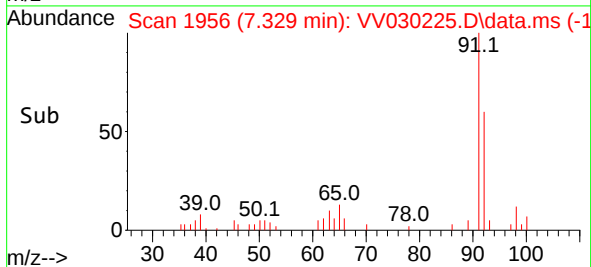
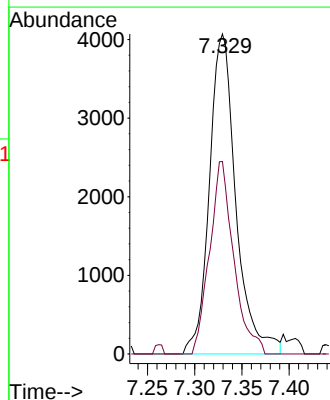
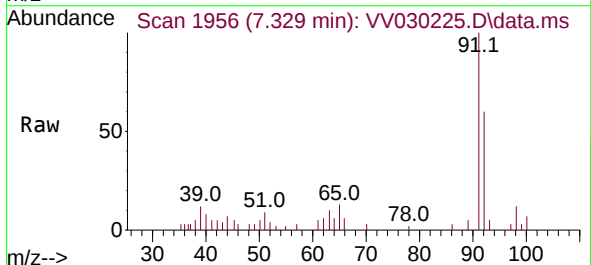
Instrument :
MSVOA_V
ClientSampleId :
CB929

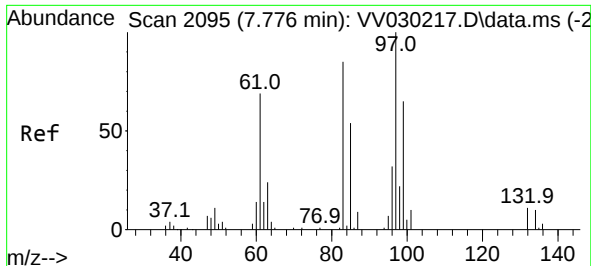
Tgt Ion: 83	Resp: 13452
Ion Ratio	Lower Upper
83 100	
55 81.0	57.6 86.4
98 48.9	38.8 58.2



#42
Toluene
Concen: 0.252 ug/L
RT: 7.329 min Scan# 1956
Delta R.T. 0.006 min
Lab File: VV030225.D
Acq: 16 Mar 2023 16:10

Tgt Ion: 91	Resp: 7946		
Ion Ratio	Lower	Upper	
91 100			
92 60.2	39.6	73.6	

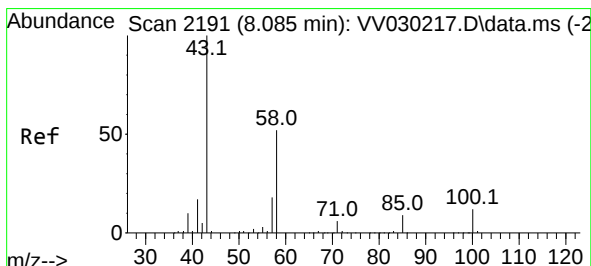
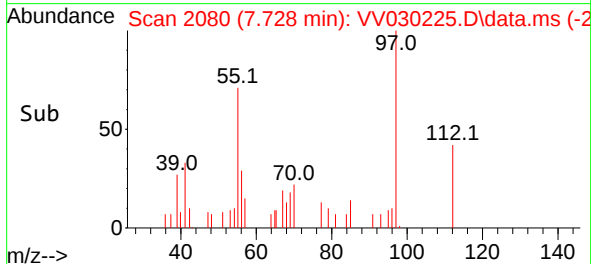
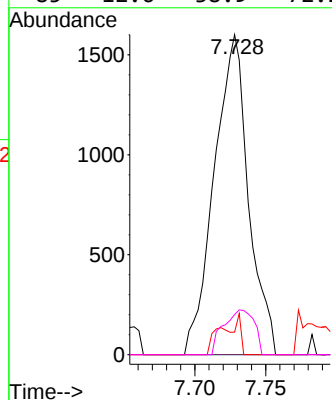
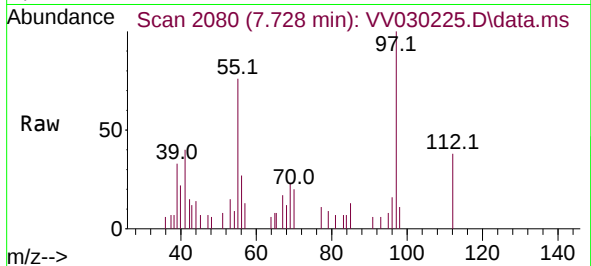




#45
1,1,2-Trichloroethane
Concen: 0.508 ug/L
RT: 7.728 min Scan# 2095
Delta R.T. -0.048 min
Lab File: VV030225.D
Acq: 16 Mar 2023 16:10

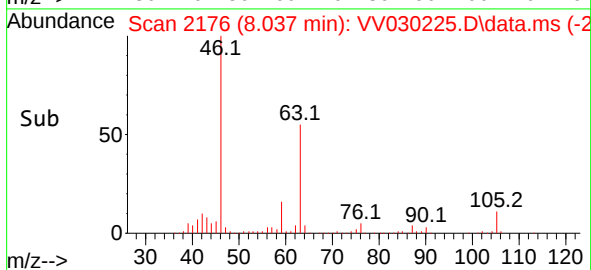
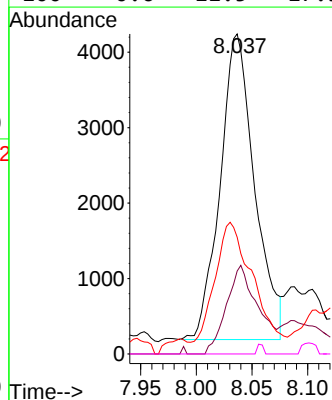
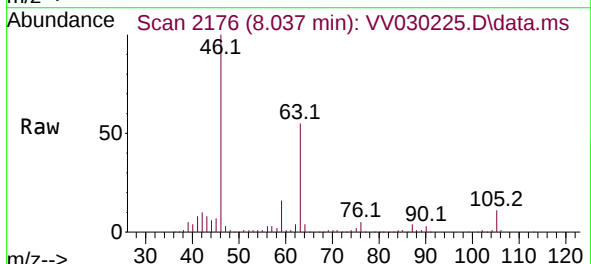
Instrument :
MSVOA_V
ClientSampleId :
CB929

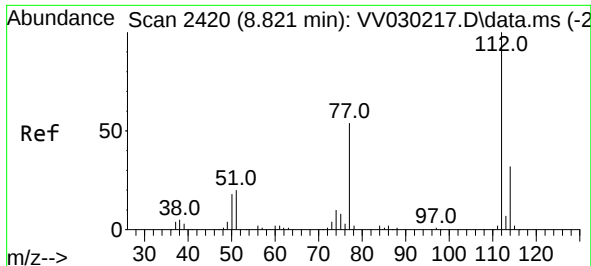
Tgt Ion: 97 Resp: 2691
Ion Ratio Lower Upper
97 100
99 0.0 42.6 79.2#
83 7.1 57.7 107.3#
85 12.6 38.9 72.2#



#48
2-Hexanone
Concen: 3.988 ug/L
RT: 8.037 min Scan# 2176
Delta R.T. -0.048 min
Lab File: VV030225.D
Acq: 16 Mar 2023 16:10

Tgt Ion: 43 Resp: 8725
Ion Ratio Lower Upper
43 100
58 26.7 49.8 74.8#
57 41.0 16.6 24.8#
100 0.6 11.5 17.3#

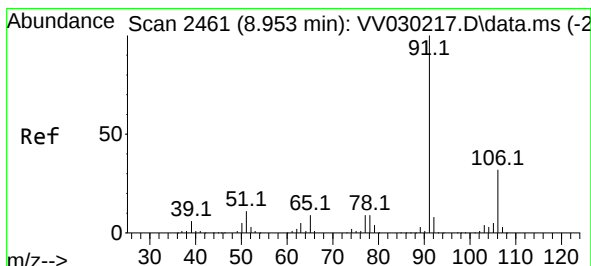
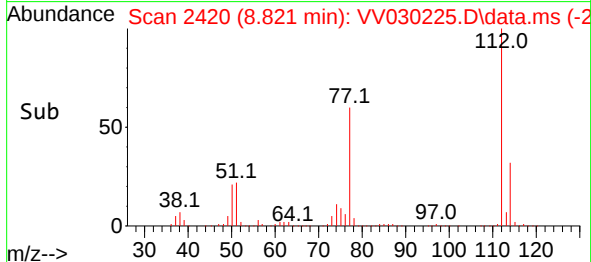
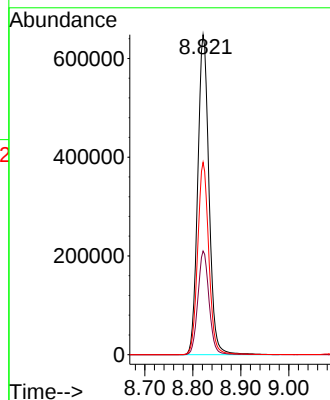
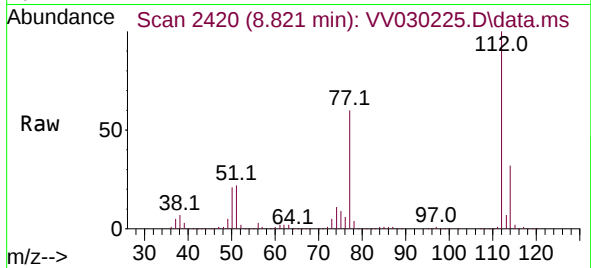




#51
Chlorobenzene
Concen: 49.613 ug/L
RT: 8.821 min Scan# 2420
Delta R.T. -0.000 min
Lab File: VV030225.D
Acq: 16 Mar 2023 16:10

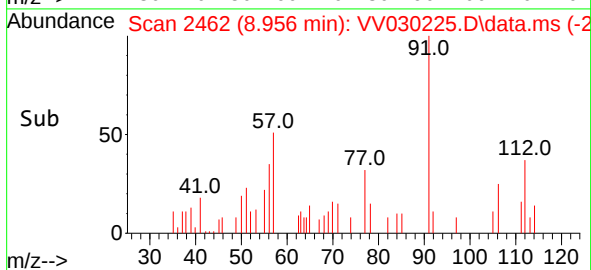
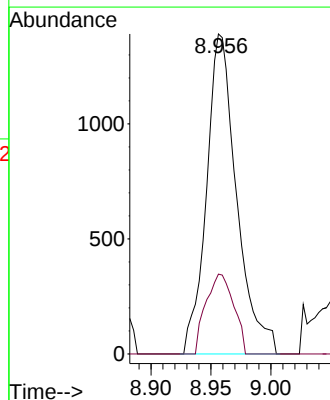
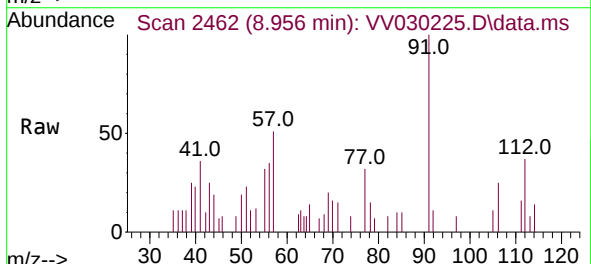
Instrument : MSVOA_V
ClientSampleId : CB929

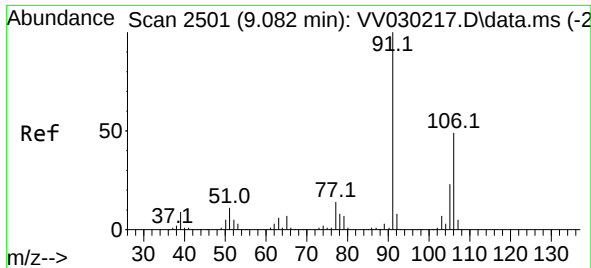
Tgt Ion:112 Resp: 1054958
Ion Ratio Lower Upper
112 100
114 32.4 22.5 41.7
77 60.1 45.3 67.9



#52
Ethylbenzene
Concen: 0.071 ug/L
RT: 8.956 min Scan# 2462
Delta R.T. 0.003 min
Lab File: VV030225.D
Acq: 16 Mar 2023 16:10

Tgt Ion: 91 Resp: 2433
Ion Ratio Lower Upper
91 100
106 24.9 22.0 40.8

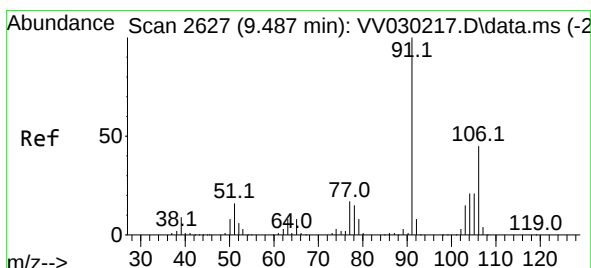
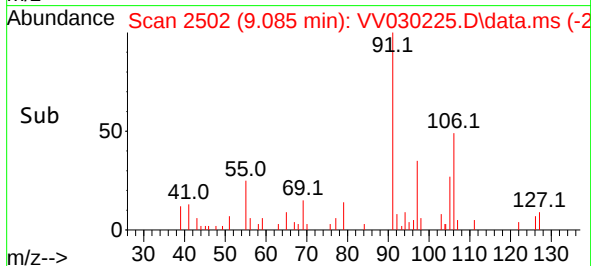
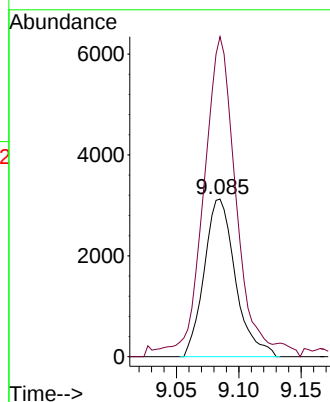
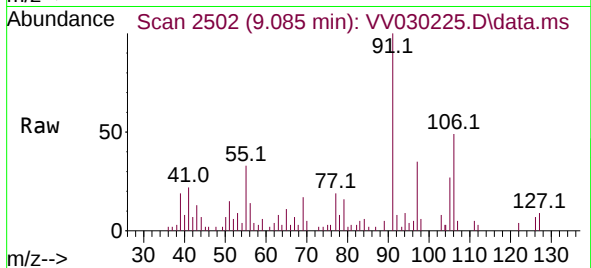




#53
m,p-Xylene
Concen: 0.412 ug/L
RT: 9.085 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV030225.D
Acq: 16 Mar 2023 16:10

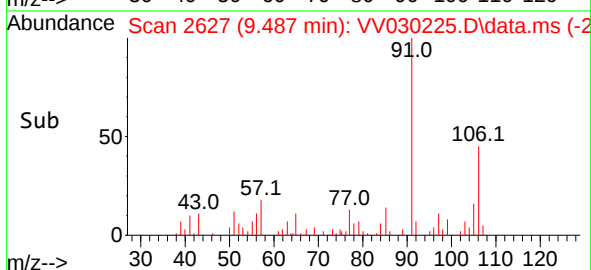
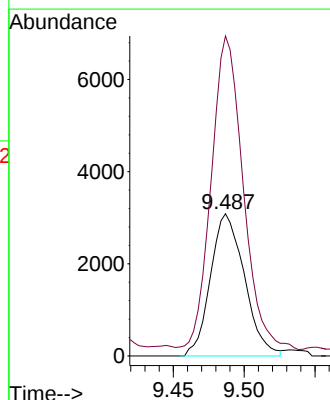
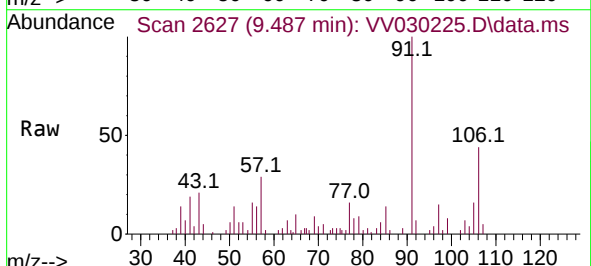
Instrument :
MSVOA_V
ClientSampleId :
CB929

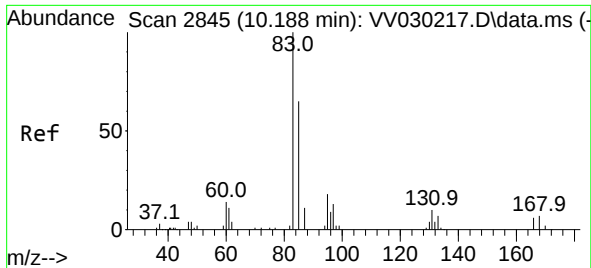
Tgt Ion:106 Resp: 5437
Ion Ratio Lower Upper
106 100
91 203.0 142.5 264.7



#54
o-Xylene
Concen: 0.408 ug/L
RT: 9.487 min Scan# 2627
Delta R.T. -0.000 min
Lab File: VV030225.D
Acq: 16 Mar 2023 16:10

Tgt Ion:106 Resp: 5141
Ion Ratio Lower Upper
106 100
91 224.9 148.8 276.4





#57

1,1,2,2-Tetrachloroethane

Concen: 0.971 ug/L

RT: 10.185 min Scan# 2845

Delta R.T. -0.003 min

Lab File: VV030225.D

Acq: 16 Mar 2023 16:10

Instrument :

MSVOA_V

ClientSampleId :

CB929

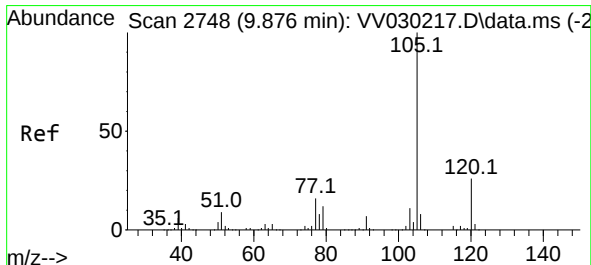
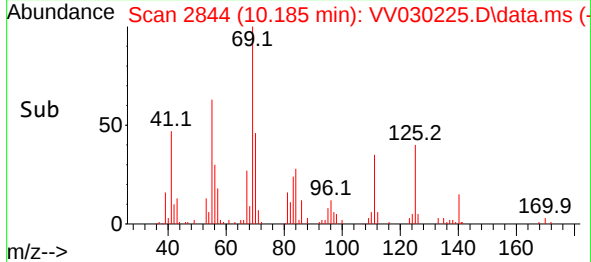
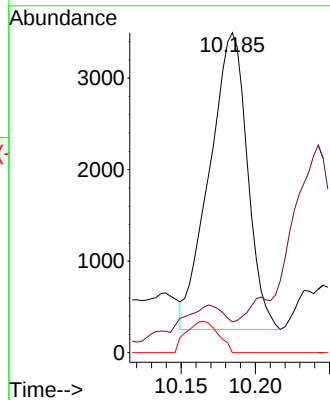
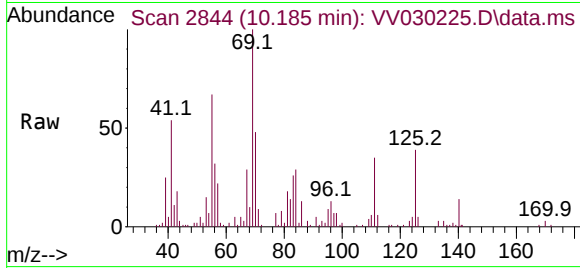
Tgt Ion: 83 Resp: 5753

Ion Ratio Lower Upper

83 100

85 9.7 45.0 83.6#

131 0.0 8.2 12.4#



#60

Isopropylbenzene

Concen: 1.546 ug/L

RT: 9.876 min Scan# 2748

Delta R.T. -0.000 min

Lab File: VV030225.D

Acq: 16 Mar 2023 16:10

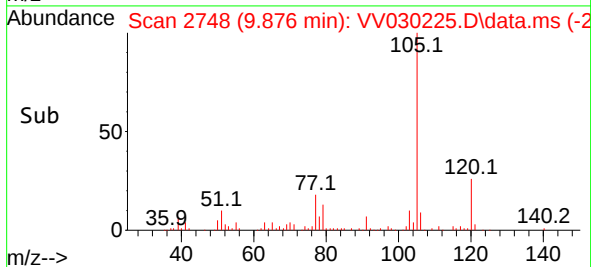
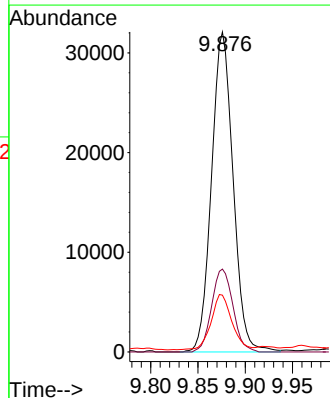
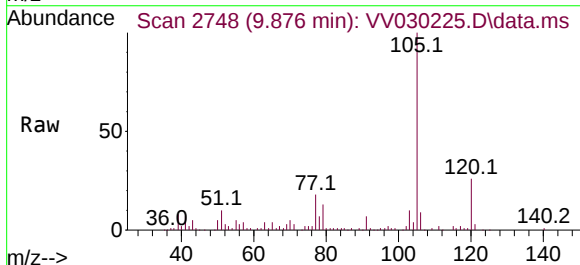
Tgt Ion: 105 Resp: 50960

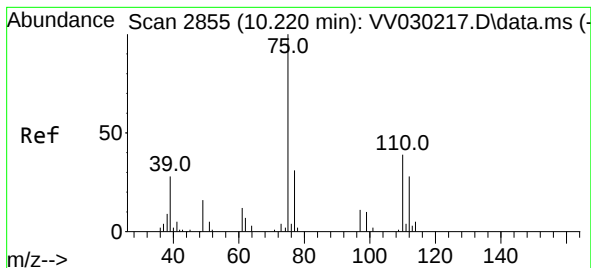
Ion Ratio Lower Upper

105 100

120 25.5 21.4 32.0

77 0.0 12.1 18.1#





#61

1,2,3-Trichloropropane

Concen: 1.747 ug/L

RT: 11.127 min Scan# 3137

Delta R.T. 0.907 min

Lab File: VV030225.D

Acq: 16 Mar 2023 16:10

Instrument :

MSVOA_V

ClientSampleId :

CB929

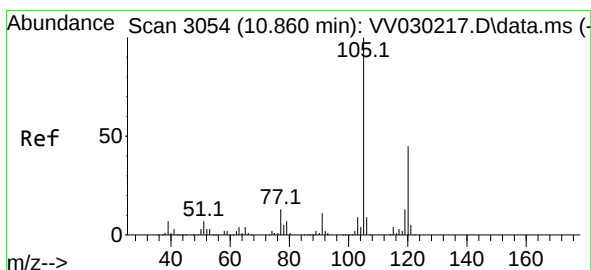
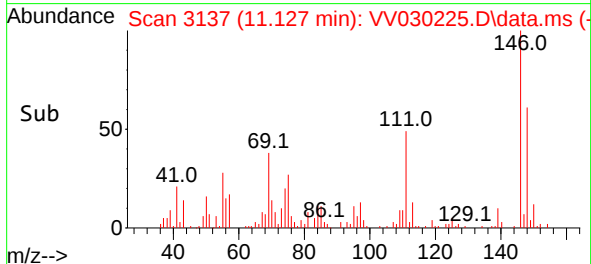
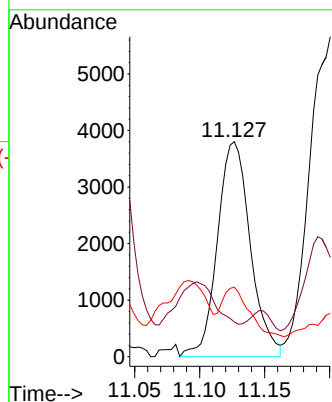
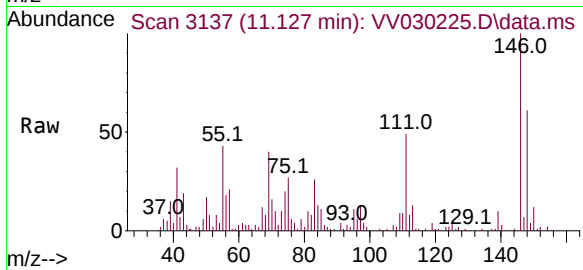
Tgt Ion: 75 Resp: 6699

Ion Ratio Lower Upper

75 100

77 0.0 26.5 39.7#

110 19.3 31.8 47.6#



#63

1,2,4-Trimethylbenzene

Concen: 0.166 ug/L

RT: 10.860 min Scan# 3054

Delta R.T. -0.000 min

Lab File: VV030225.D

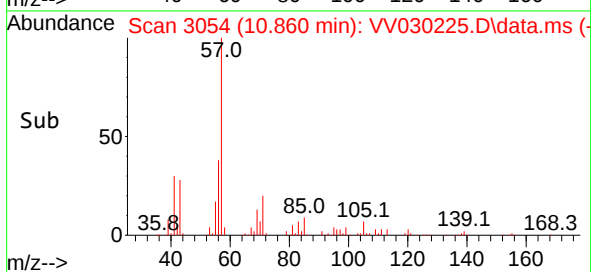
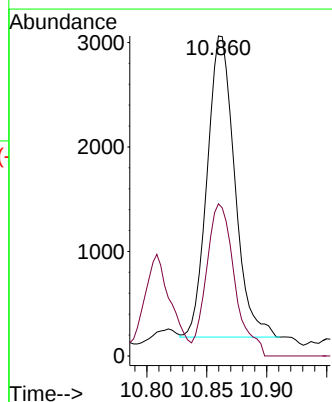
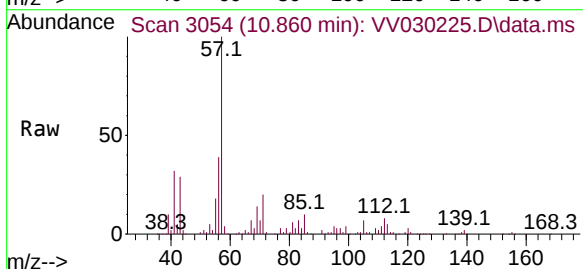
Acq: 16 Mar 2023 16:10

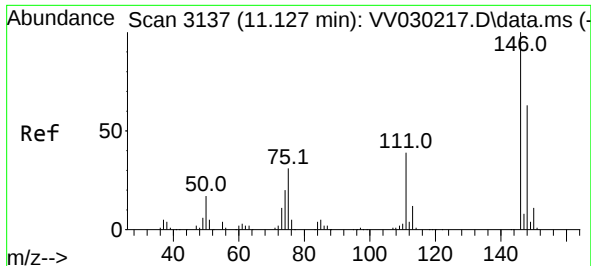
Tgt Ion: 105 Resp: 4595

Ion Ratio Lower Upper

105 100

120 51.7 36.2 54.4

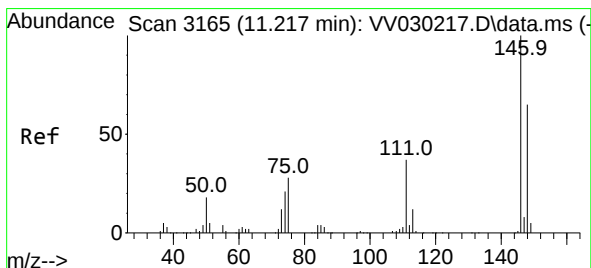
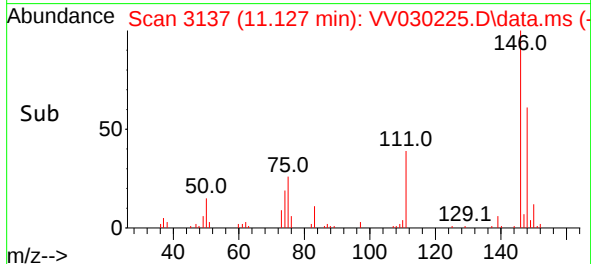
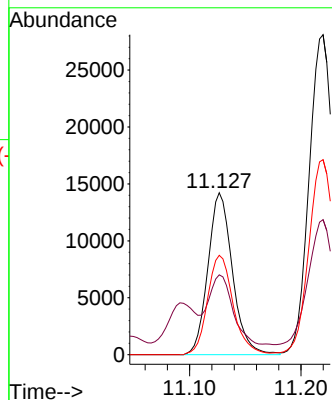
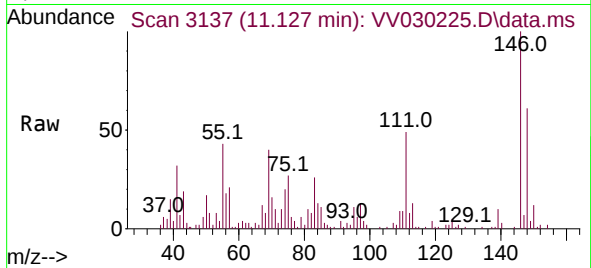




#64
1,3-Dichlorobenzene
Concen: 1.270 ug/L
RT: 11.127 min Scan# 3137
Delta R.T. -0.000 min
Lab File: VV030225.D
Acq: 16 Mar 2023 16:10

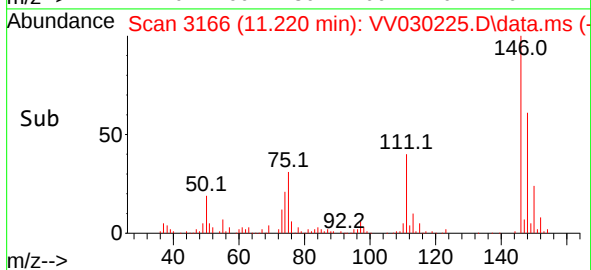
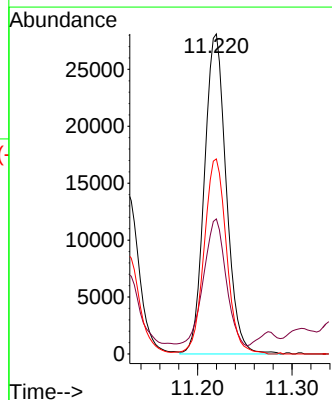
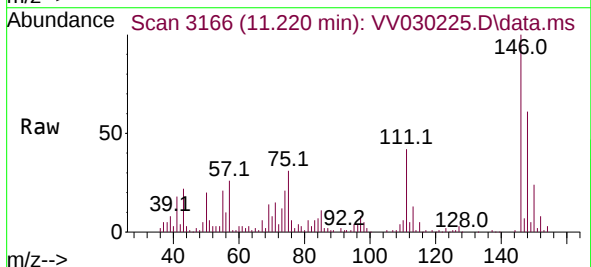
Instrument :
MSVOA_V
ClientSampleId :
CB929

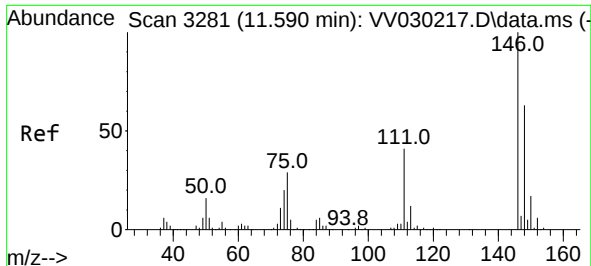
Tgt Ion:146 Resp: 21799
Ion Ratio Lower Upper
146 100
111 49.3 27.7 51.5
148 61.4 44.5 82.7



#65
1,4-Dichlorobenzene
Concen: 2.610 ug/L
RT: 11.220 min Scan# 3166
Delta R.T. 0.003 min
Lab File: VV030225.D
Acq: 16 Mar 2023 16:10

Tgt Ion:146 Resp: 45198
Ion Ratio Lower Upper
146 100
111 42.2 27.4 51.0
148 60.9 44.1 81.9





#67

1,2-Dichlorobenzene

Concen: 0.311 ug/L

RT: 11.590 min Scan# 31

Delta R.T. -0.000 min

Lab File: VV030225.D

Acq: 16 Mar 2023 16:10

Instrument :

MSVOA_V

ClientSampleId :

CB929

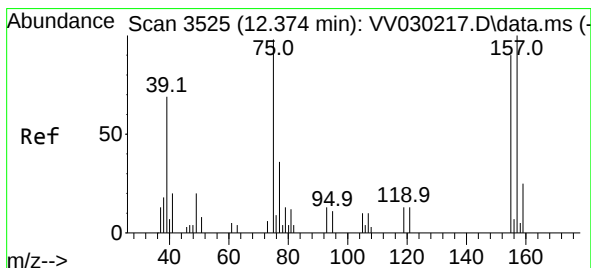
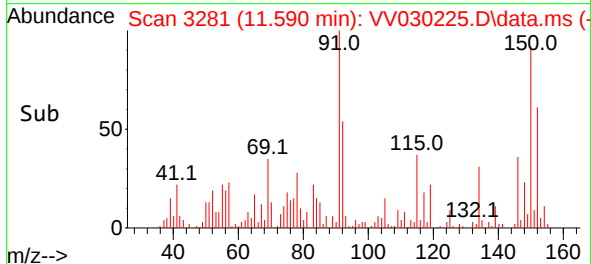
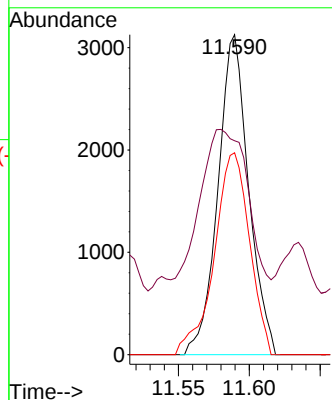
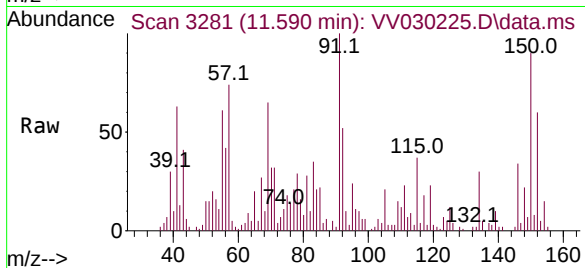
Tgt Ion:146 Resp: 4712

Ion Ratio Lower Upper

146 100

111 66.8 33.5 50.3#

148 63.1 51.3 76.9



#68

1,2-Dibromo-3-chloropropane

Concen: 3.389 ug/L

RT: 12.358 min Scan# 3520

Delta R.T. -0.016 min

Lab File: VV030225.D

Acq: 16 Mar 2023 16:10

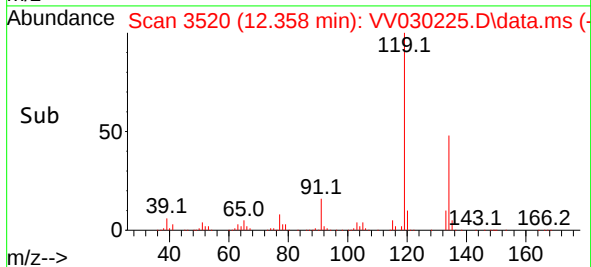
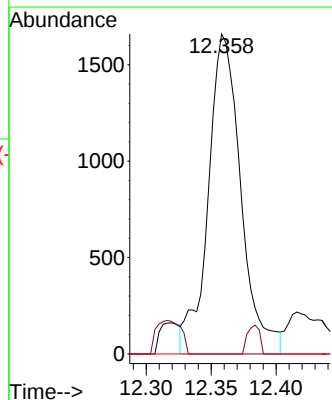
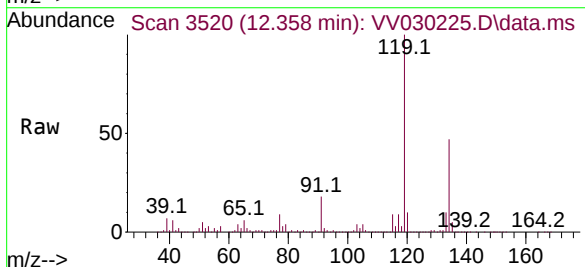
Tgt Ion: 75 Resp: 2902

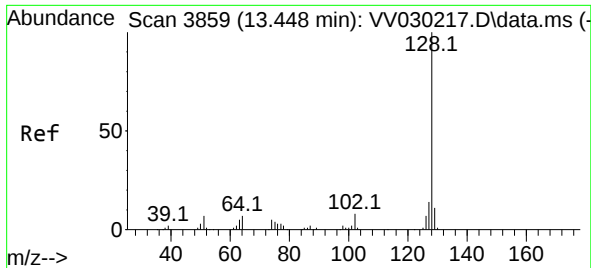
Ion Ratio Lower Upper

75 100

155 0.0 79.1 118.7#

157 0.0 95.5 143.3#





#71
Naphthalene
Concen: 0.224 ug/L
RT: 13.445 min Scan# 31
Delta R.T. -0.003 min
Lab File: VV030225.D
Acq: 16 Mar 2023 16:10

Instrument :
MSVOA_V
ClientSampleId :
CB929

Tgt Ion:128 Resp: 3352
Ion Ratio Lower Upper
128 100
129 53.4 8.6 13.0#
127 36.6 10.4 15.6#

