

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW032322\
 Data File : VW025140.D
 Acq On : 23 Mar 2022 18:40
 Operator : SY/MD
 Sample : N2083-07
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Mar 24 01:18:44 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR031522WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Mar 24 01:12:55 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.619	114	124538	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.853	117	119493	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	57508	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.307	65	39489	4.016	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	80.400%
7) Chloroethane-d5	1.571	69	35335	4.908	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	98.200%
11) 1,1-Dichloroethene-d2	2.111	63	54639	3.438	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	68.800%
20) 2-Butanone-d5	3.895	46	90725	76.352	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	152.700%#
24) Chloroform-d	4.349	84	84933	5.208	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.200%
26) 1,2-Dichloroethane-d4	5.034	65	37472	5.496	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	110.000%
32) Benzene-d6	5.053	84	166992	4.818	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.400%
36) 1,2-Dichloropropane-d6	6.069	67	53984	5.416	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	108.400%
41) Toluene-d8	7.317	98	142468	4.510	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.200%
43) trans-1,3-Dichloroprop...	7.625	79	15478	4.454	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.000%
46) 2-Hexanone-d5	8.088	63	73849	62.307	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	124.620%
56) 1,1,2,2-Tetrachloroeth...	10.214	84	36531	6.230	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	124.600%#
66) 1,2-Dichlorobenzene-d4	11.622	152	53924	5.539	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	110.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.130	85	1797	0.163	ug/L	91
5) Vinyl chloride	1.314	62	16356	1.494	ug/L	92
8) Chloroethane	1.587	64	411726	62.014	ug/L	99
12) 1,1-Dichloroethene	2.114	96	1217	0.153	ug/L #	1
14) Carbon disulfide	2.297	76	2952	0.104	ug/L	100
15) Methyl Acetate	2.529	43	580	0.266	ug/L #	44
17) Methyl tert-butyl Ether	2.770	73	5444	0.315	ug/L #	86
18) trans-1,2-Dichloroethene	2.767	96	6690	0.701	ug/L	99
19) 1,1-Dichloroethane	3.191	63	477461	29.383	ug/L	99
22) cis-1,2-Dichloroethene	3.915	96	29605	3.071	ug/L	95
27) 1,2-Dichloroethane	5.153	62	1048	0.125	ug/L #	71
29) 1,1,1-Trichloroethane	4.609	97	249607	16.380	ug/L	98
30) Cyclohexane	4.680	56	3057	0.206	ug/L	95
31) Carbon tetrachloride	4.609	117	33026	2.526	ug/L	98
33) Benzene	5.104	78	2456	0.063	ug/L	100
34) Trichloroethene	5.915	95	94446	9.126	ug/L	99
35) Methylcyclohexane	6.127	83	11949	0.729	ug/L	96
37) 1,2-Dichloropropane	6.072	63	5519	0.618	ug/L #	86
39) cis-1,3-Dichloropropene	6.989	75	1129	0.091	ug/L	88

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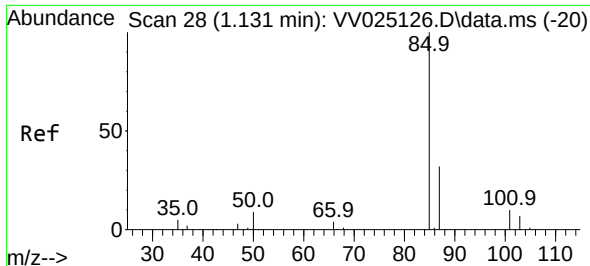
Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Mar 24 01:18:44 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR031522WMA.M
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

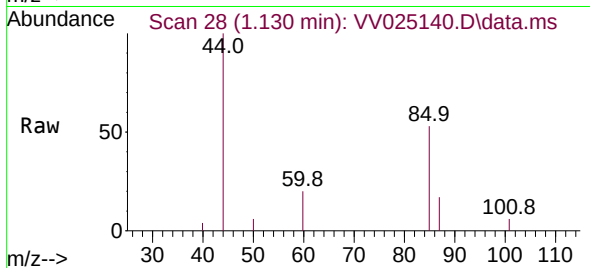
45) 1,1,2-Trichloroethane	7.789	97	4451	0.746	ug/L #	19
47) Tetrachloroethene	7.976	164	43374	5.958	ug/L	98
49) Dibromochloromethane	7.976	129	44164	6.614	ug/L #	10
52) Ethylbenzene	9.017	91	23181	0.539	ug/L	95
57) 1,1,2,2-Tetrachloroethane	10.239	83	534	0.091	ug/L #	26
60) Isopropylbenzene	9.931	105	108286	2.497	ug/L	99
61) 1,2,3-Trichloropropane	10.352	75	1355	0.280	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.538	105	9612	0.488	ug/L	99
63) 1,2,4-Trimethylbenzene	10.538	105	9612	0.276	ug/L	96
67) 1,2-Dichlorobenzene	11.641	146	25216	1.513	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.287	75	143	0.172	ug/L #	1
70) 1,2,4-trichlorobenzene	13.265	180	608	0.059	ug/L #	1
71) Naphthalene	13.500	128	83842	4.877	ug/L	99

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

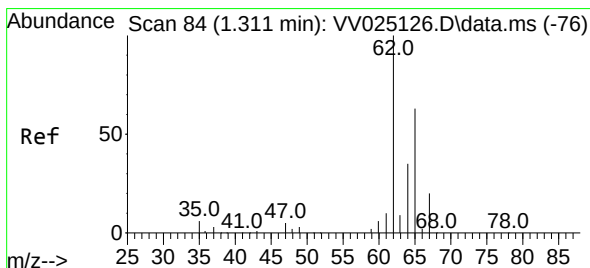
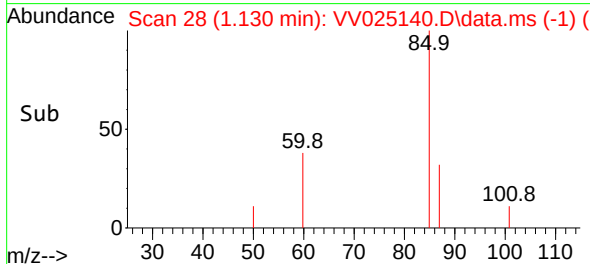
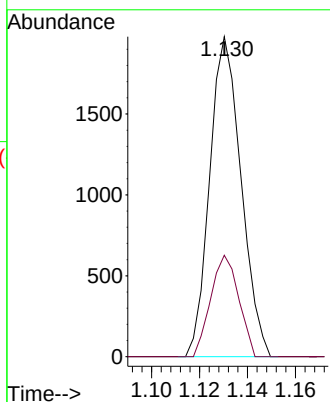


#2
 Dichlorodifluoromethane
 Concen: 0.163 ug/L
 RT: 1.130 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VV025140.D
 Acq: 23 Mar 2022 18:40

Instrument :
 MSVOA_V
 ClientSampleId :

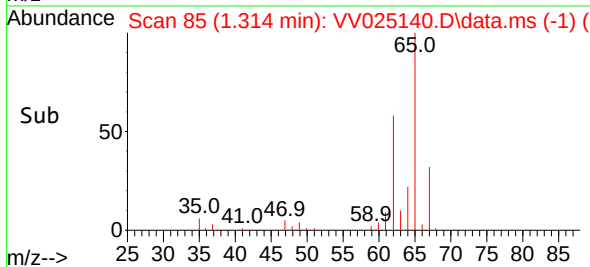
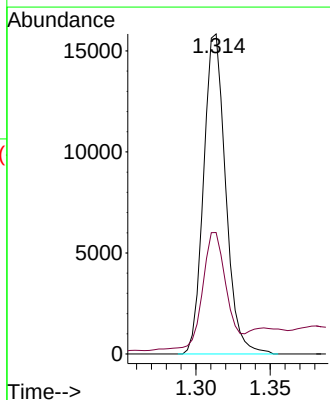
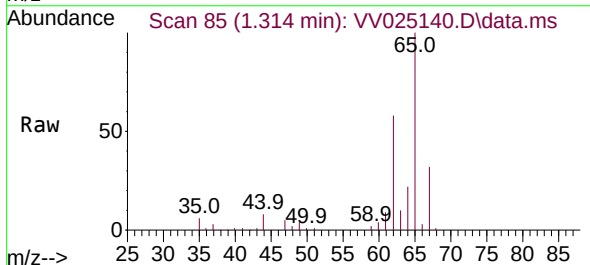


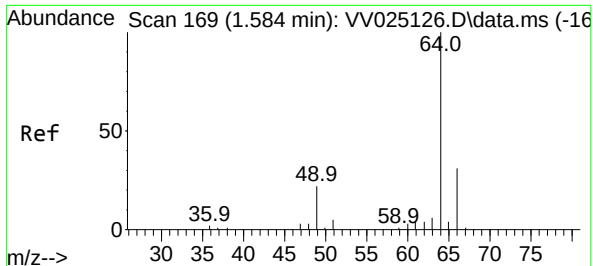
Tgt Ion: 85 Resp: 1797
 Ion Ratio Lower Upper
 85 100
 87 28.2 26.7 40.1



#5
 Vinyl chloride
 Concen: 1.494 ug/L
 RT: 1.314 min Scan# 85
 Delta R.T. 0.003 min
 Lab File: VV025140.D
 Acq: 23 Mar 2022 18:40

Tgt Ion: 62 Resp: 16356
 Ion Ratio Lower Upper
 62 100
 64 37.9 23.4 43.4





#8

Chloroethane

Concen: 62.014 ug/L

RT: 1.587 min Scan# 1

Delta R.T. 0.003 min

Lab File: VV025140.D

Acq: 23 Mar 2022 18:40

Instrument :

MSVOA_V

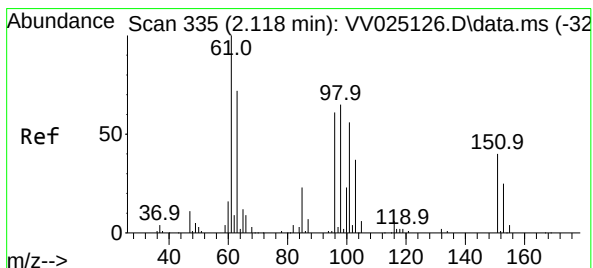
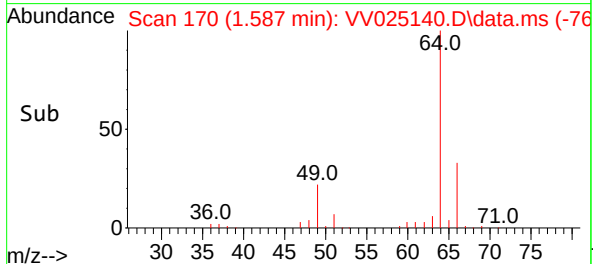
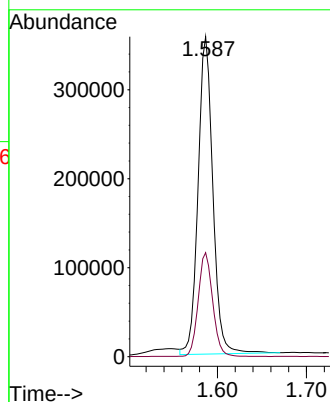
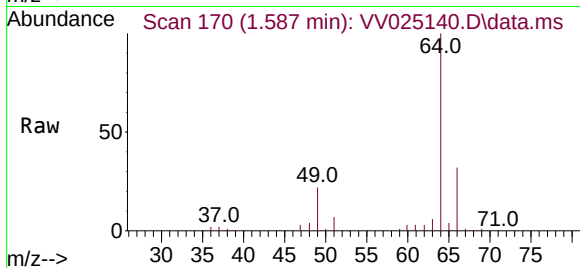
ClientSampleId :

Tgt Ion: 64 Resp: 411726

Ion Ratio Lower Upper

64 100

66 32.5 22.5 41.7



#12

1,1-Dichloroethene

Concen: 0.153 ug/L

RT: 2.114 min Scan# 334

Delta R.T. -0.003 min

Lab File: VV025140.D

Acq: 23 Mar 2022 18:40

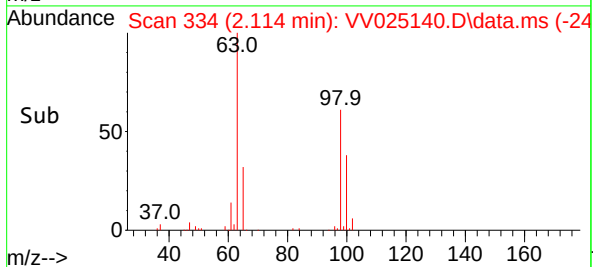
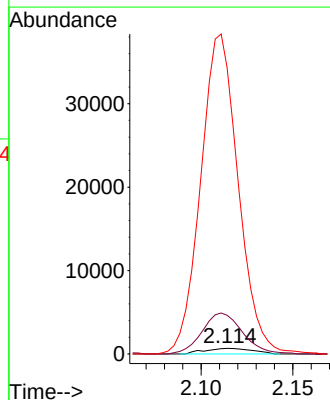
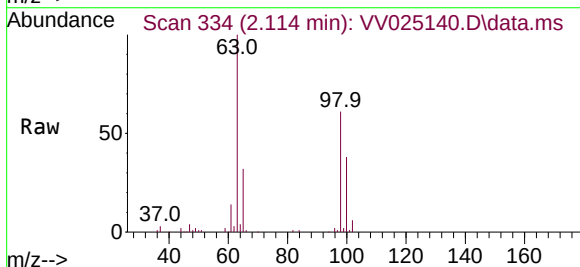
Tgt Ion: 96 Resp: 1217

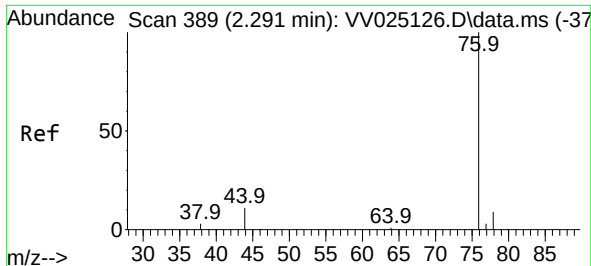
Ion Ratio Lower Upper

96 100

61 684.4 113.0 209.9#

63 5061.6 82.1 152.5#

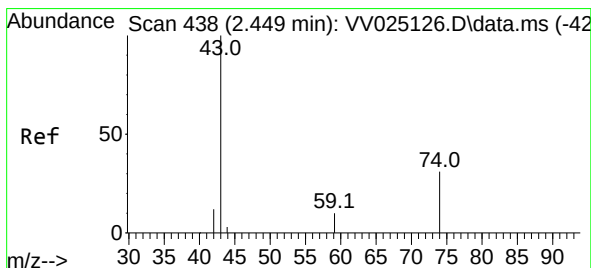
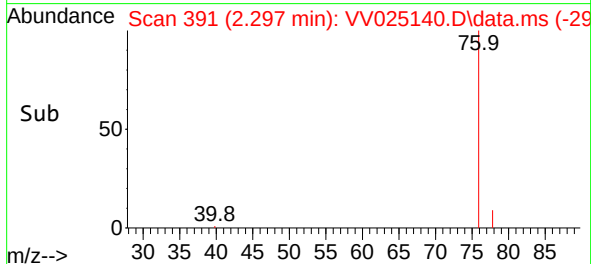
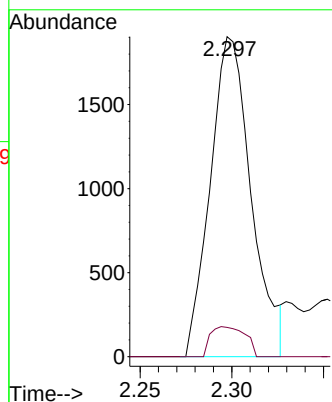
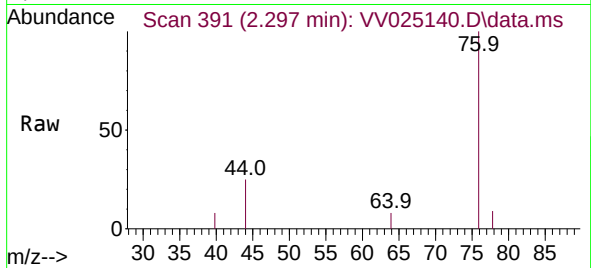




#14
Carbon disulfide
Concen: 0.104 ug/L
RT: 2.297 min Scan# 391
Delta R.T. 0.006 min
Lab File: VV025140.D
Acq: 23 Mar 2022 18:40

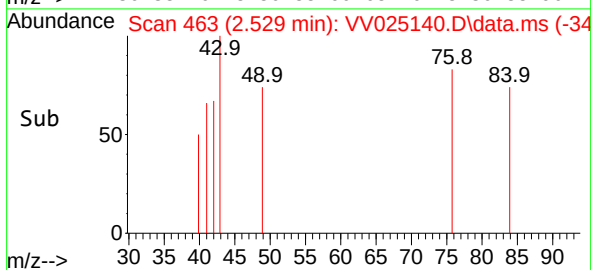
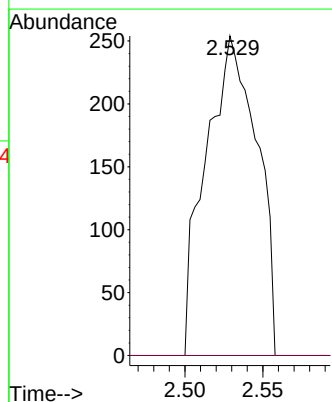
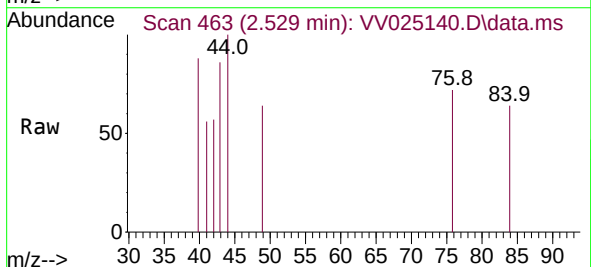
Instrument :
MSVOA_V
ClientSampleId :

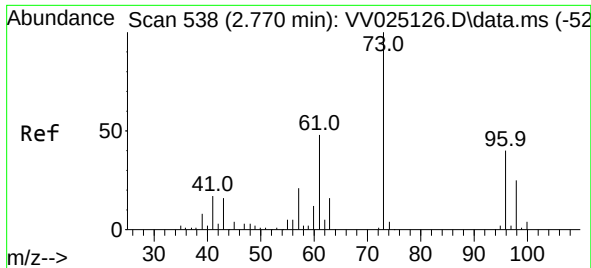
Tgt Ion: 76 Resp: 2952
Ion Ratio Lower Upper
76 100
78 9.1 7.4 11.0



#15
Methyl Acetate
Concen: 0.266 ug/L
RT: 2.529 min Scan# 463
Delta R.T. 0.080 min
Lab File: VV025140.D
Acq: 23 Mar 2022 18:40

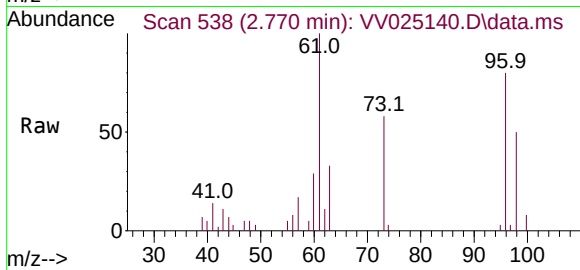
Tgt Ion: 43 Resp: 580
Ion Ratio Lower Upper
43 100
74 0.0 24.2 36.4#



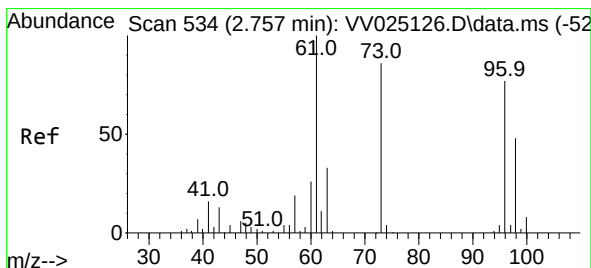
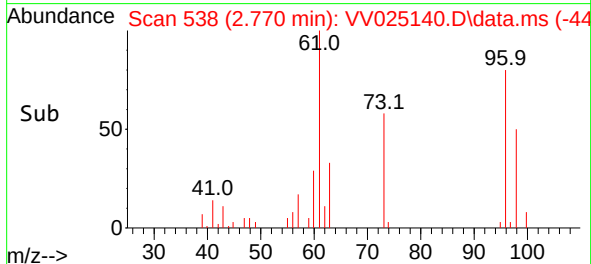
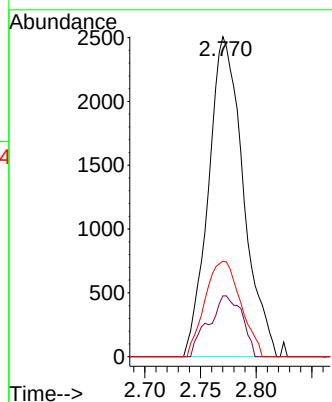


#17
Methyl tert-butyl Ether
Concen: 0.315 ug/L
RT: 2.770 min Scan# 51
Delta R.T. -0.000 min
Lab File: VV025140.D
Acq: 23 Mar 2022 18:40

Instrument :
MSVOA_V
ClientSampleId :

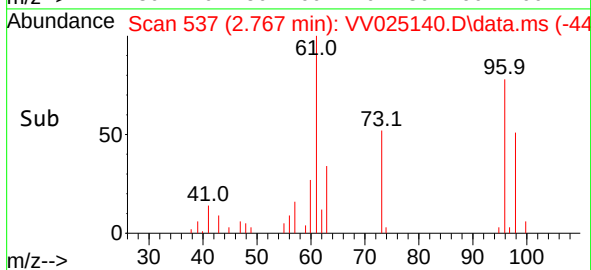
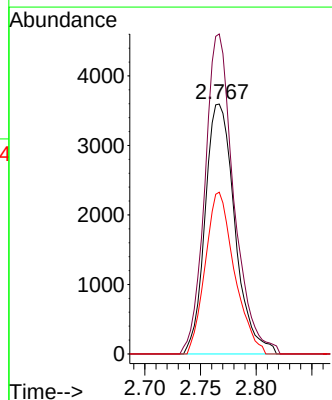
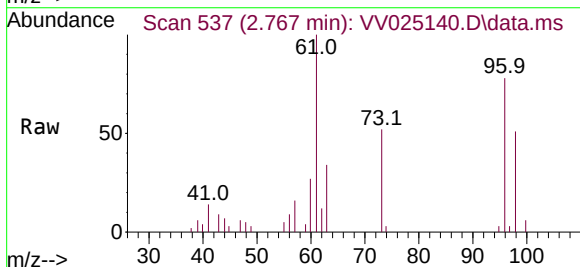


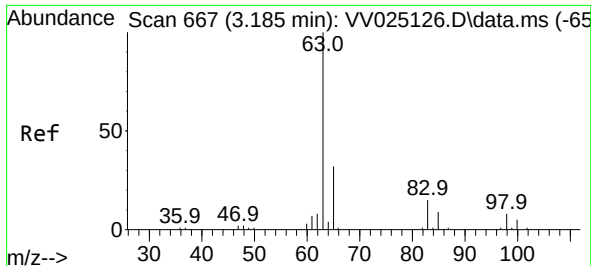
Tgt Ion: 73	Resp: 5444
Ion Ratio	Lower Upper
73 100	
43 18.3	13.2 19.8
57 30.6	16.7 25.1#



#18
trans-1,2-Dichloroethene
Concen: 0.701 ug/L
RT: 2.767 min Scan# 537
Delta R.T. 0.009 min
Lab File: VV025140.D
Acq: 23 Mar 2022 18:40

Tgt Ion: 96	Resp: 6690
Ion Ratio	Lower Upper
96 100	
61 128.0	89.2 165.6
98 64.7	43.9 81.5





#19

1,1-Dichloroethane

Concen: 29.383 ug/L

RT: 3.191 min Scan# 6

Delta R.T. 0.006 min

Lab File: VV025140.D

Acq: 23 Mar 2022 18:40

Instrument :

MSVOA_V

ClientSampleId :

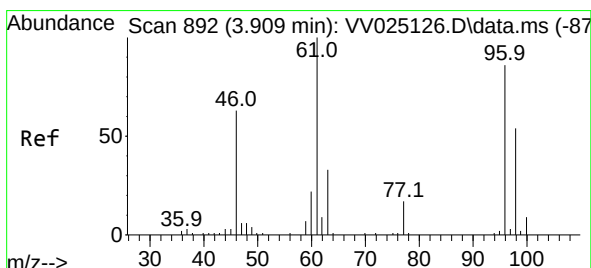
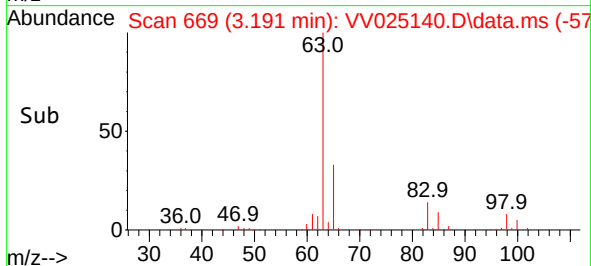
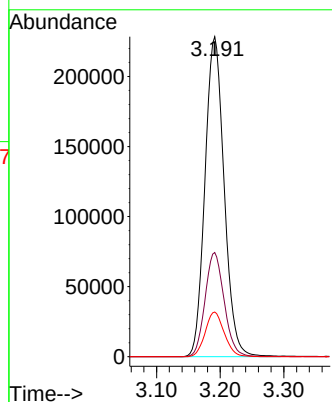
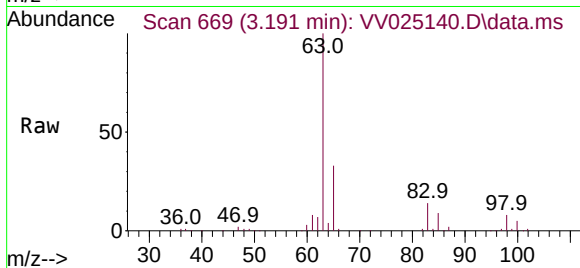
Tgt Ion: 63 Resp: 477461

Ion Ratio Lower Upper

63 100

65 32.5 22.2 41.2

83 13.9 9.4 17.4



#22

cis-1,2-Dichloroethene

Concen: 3.071 ug/L

RT: 3.915 min Scan# 894

Delta R.T. 0.006 min

Lab File: VV025140.D

Acq: 23 Mar 2022 18:40

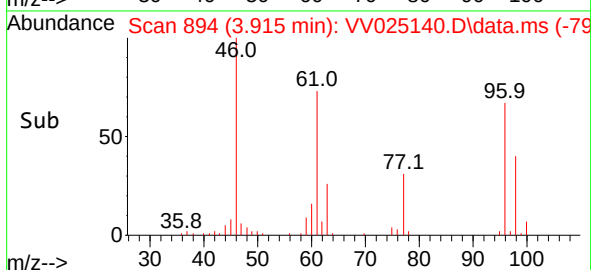
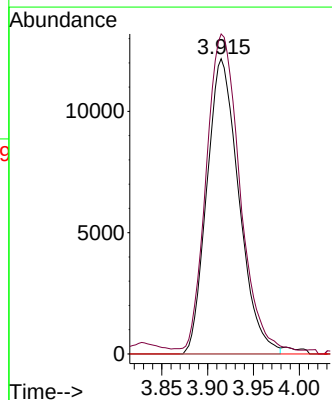
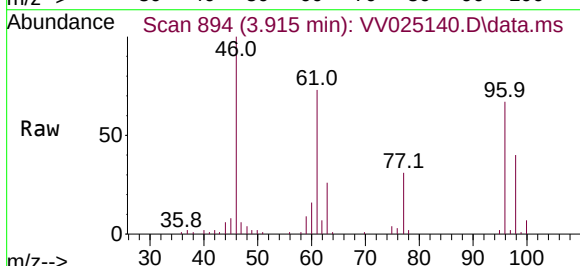
Tgt Ion: 96 Resp: 29605

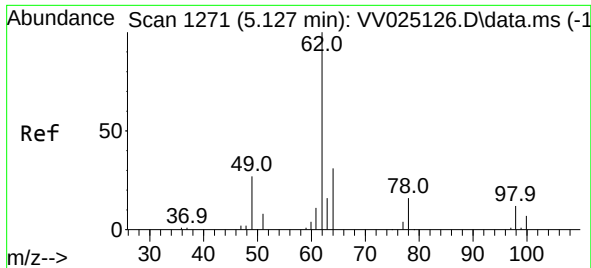
Ion Ratio Lower Upper

96 100

61 108.4 79.7 147.9

68 0.0 0.0 0.0





#27

1,2-Dichloroethane

Concen: 0.125 ug/L

RT: 5.153 min Scan# 11

Delta R.T. 0.025 min

Lab File: VV025140.D

Acq: 23 Mar 2022 18:40

Instrument :

MSVOA_V

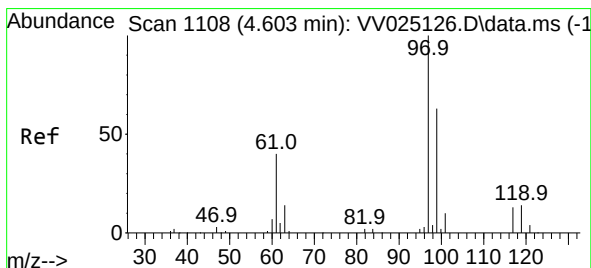
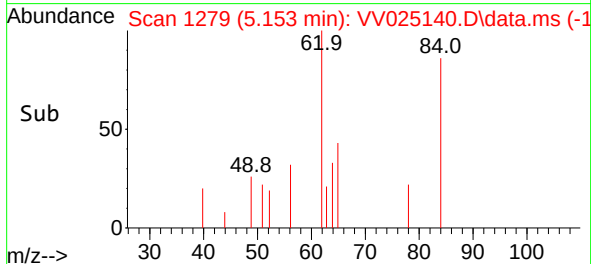
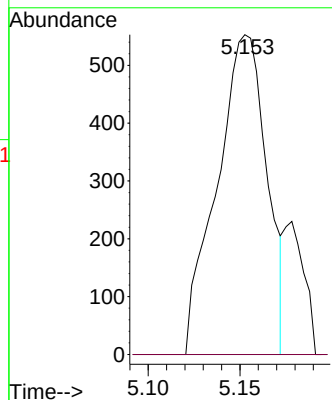
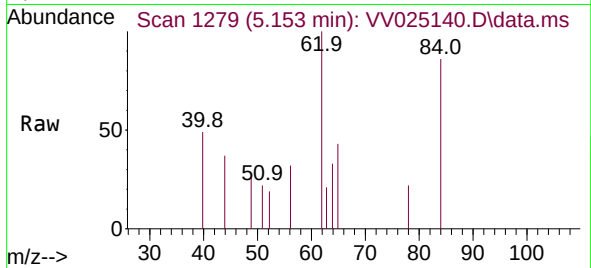
ClientSampleId :

Tgt Ion: 62 Resp: 1048

Ion Ratio Lower Upper

62 100

98 0.0 9.0 13.4#



#29

1,1,1-Trichloroethane

Concen: 16.380 ug/L

RT: 4.609 min Scan# 1110

Delta R.T. 0.006 min

Lab File: VV025140.D

Acq: 23 Mar 2022 18:40

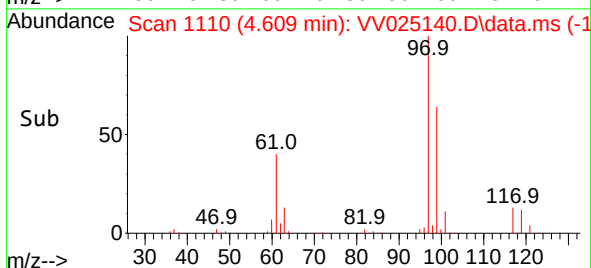
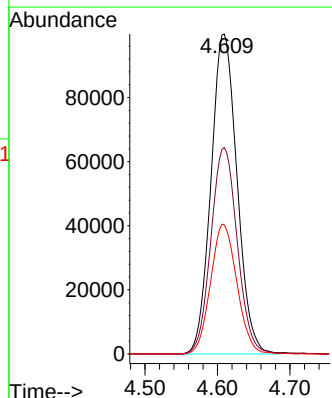
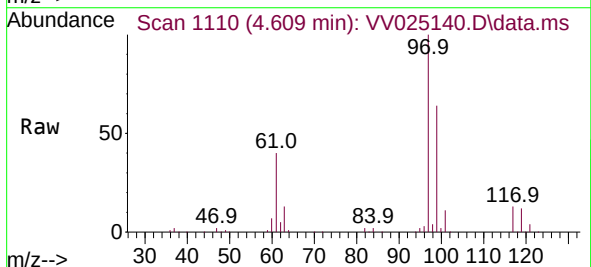
Tgt Ion: 97 Resp: 249607

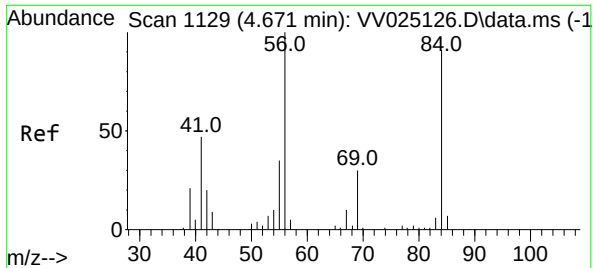
Ion Ratio Lower Upper

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99 65.3 50.7 76.1

61 41.0 32.4 48.6

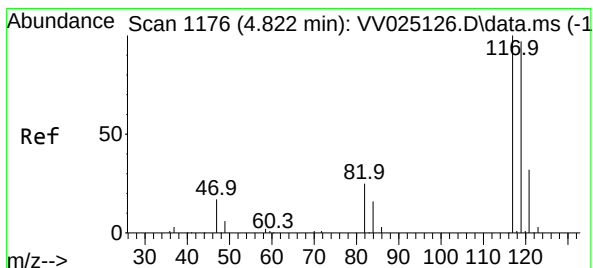
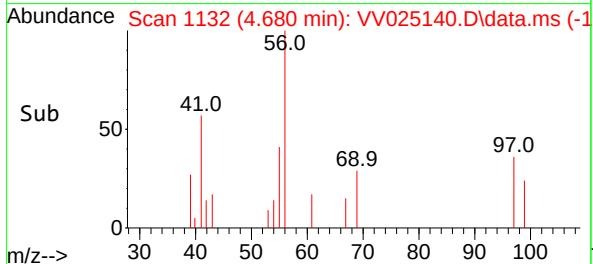
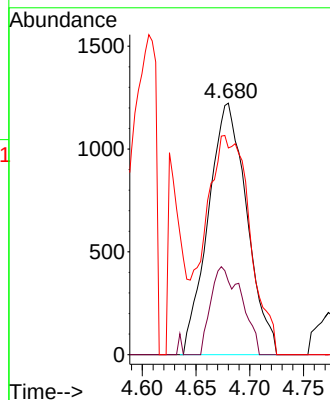
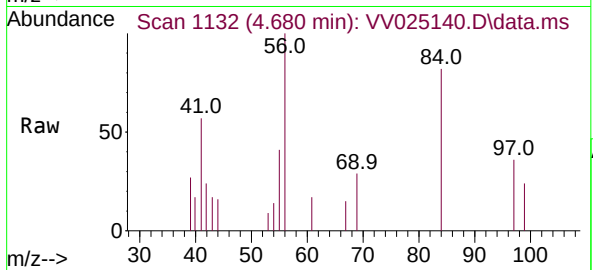




#30
Cyclohexane
Concen: 0.206 ug/L
RT: 4.680 min Scan# 1110
Delta R.T. 0.009 min
Lab File: VV025140.D
Acq: 23 Mar 2022 18:40

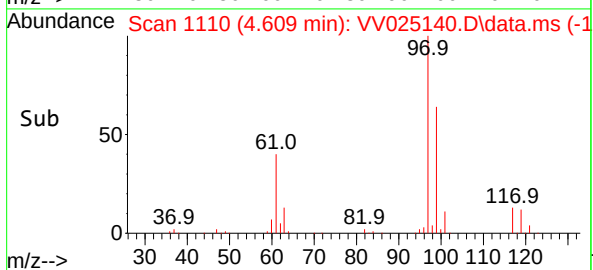
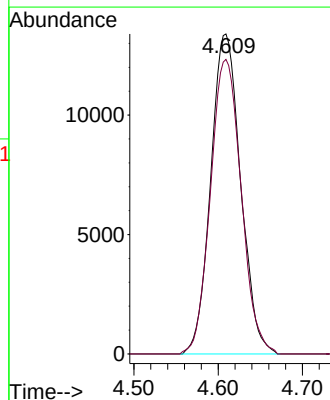
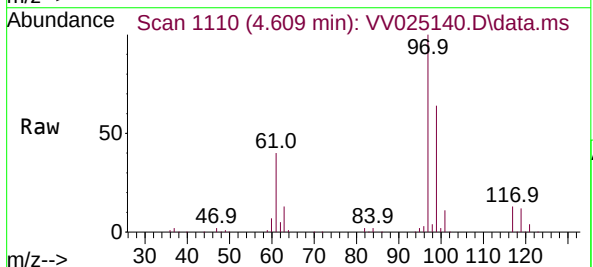
Instrument :
MSVOA_V
ClientSampleId :

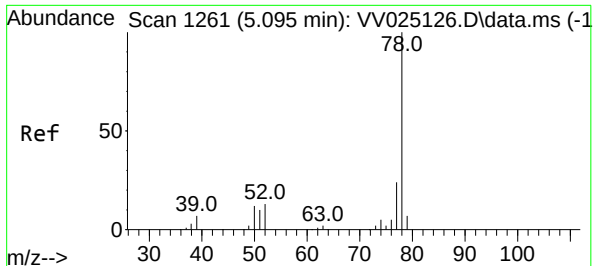
Tgt Ion: 56	Resp:	3057
Ion Ratio	Lower	Upper
56	100	
69	27.8	24.9 37.3
84	99.1	75.9 113.9



#31
Carbon tetrachloride
Concen: 2.526 ug/L
RT: 4.609 min Scan# 1110
Delta R.T. -0.212 min
Lab File: VV025140.D
Acq: 23 Mar 2022 18:40

Tgt Ion: 117	Resp:	33026
Ion Ratio	Lower	Upper
117	100	
119	94.5	76.8 115.2

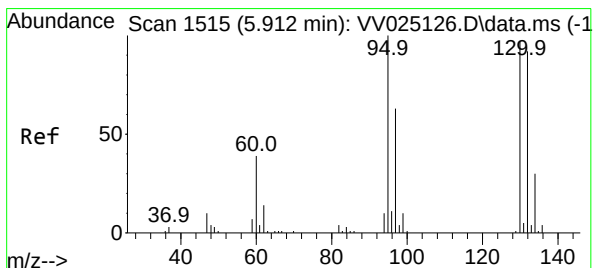
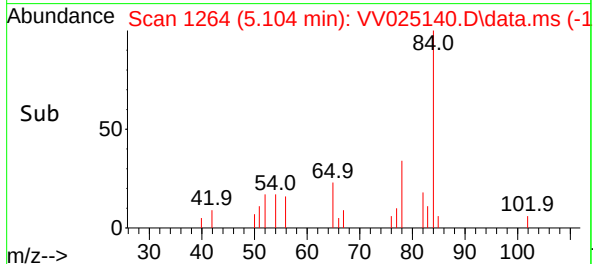
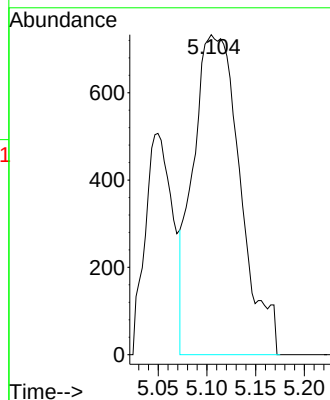
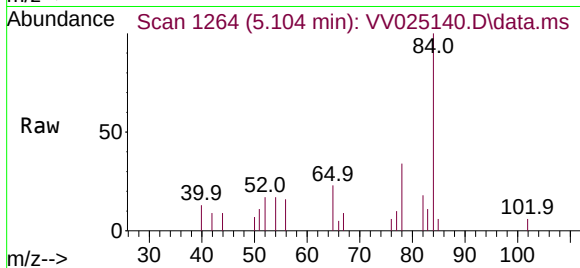




#33
Benzene
Concen: 0.063 ug/L
RT: 5.104 min Scan# 11
Delta R.T. 0.009 min
Lab File: VV025140.D
Acq: 23 Mar 2022 18:40

Instrument :
MSVOA_V
ClientSampleId :

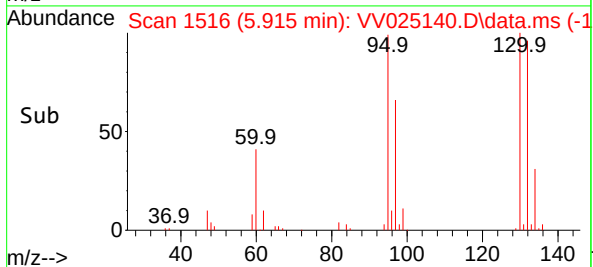
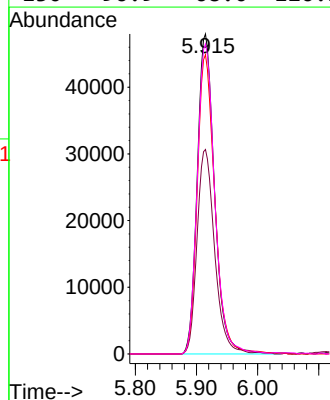
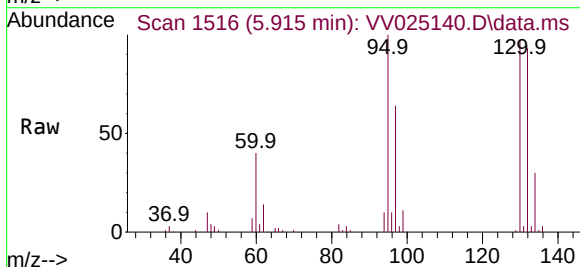
Tgt Ion: 78 Resp: 2456

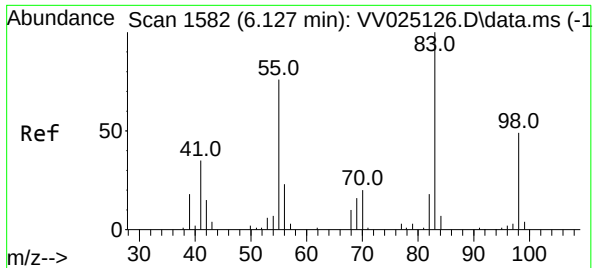


#34
Trichloroethene
Concen: 9.126 ug/L
RT: 5.915 min Scan# 1516
Delta R.T. 0.003 min
Lab File: VV025140.D
Acq: 23 Mar 2022 18:40

Tgt Ion: 95 Resp: 94446

Ion	Ratio	Lower	Upper
95	100		
97	63.9	44.5	82.7
132	93.5	66.5	123.5
130	96.9	68.0	126.2

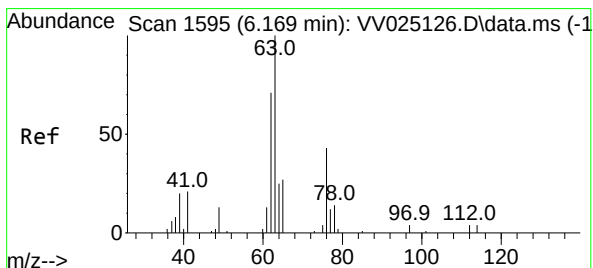
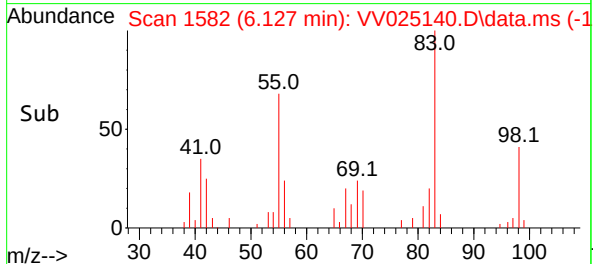
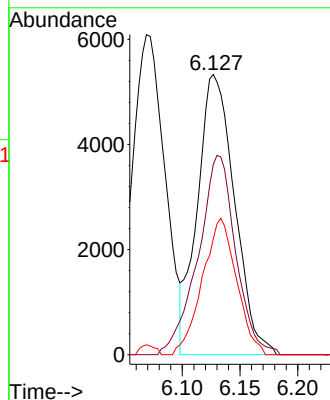
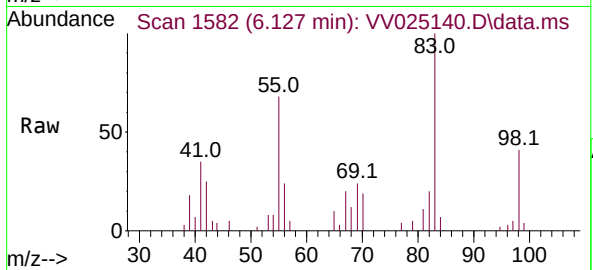




#35
Methylcyclohexane
Concen: 0.729 ug/L
RT: 6.127 min Scan# 11
Delta R.T. -0.000 min
Lab File: VV025140.D
Acq: 23 Mar 2022 18:40

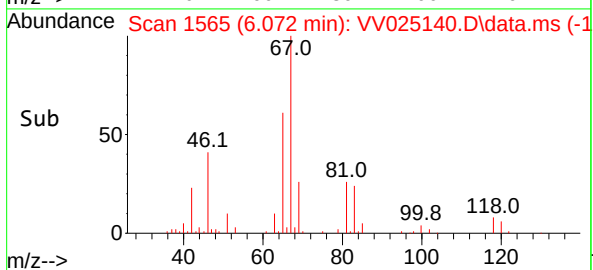
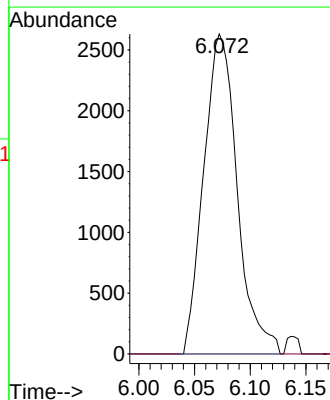
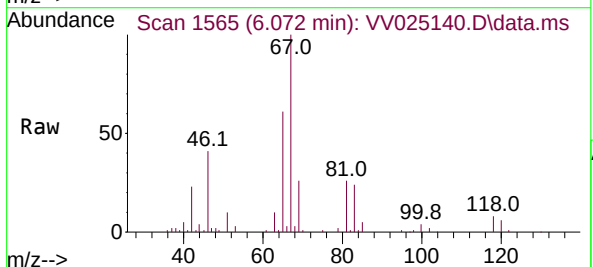
Instrument :
MSVOA_V
ClientSampleId :

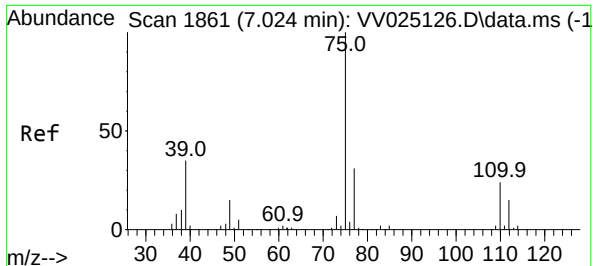
Tgt Ion: 83	Resp: 11949
Ion Ratio	Lower Upper
83 100	
55 71.9	55.4 83.0
98 44.6	38.4 57.6



#37
1,2-Dichloropropane
Concen: 0.618 ug/L
RT: 6.072 min Scan# 1565
Delta R.T. -0.097 min
Lab File: VV025140.D
Acq: 23 Mar 2022 18:40

Tgt Ion: 63	Resp: 5519		
Ion Ratio	Lower	Upper	
63 100			
112 0.0	3.8	5.6#	





#39

cis-1,3-Dichloropropene

Concen: 0.091 ug/L

RT: 6.989 min Scan# 1129

Delta R.T. -0.036 min

Lab File: VV025140.D

Acq: 23 Mar 2022 18:40

Instrument :

MSVOA_V

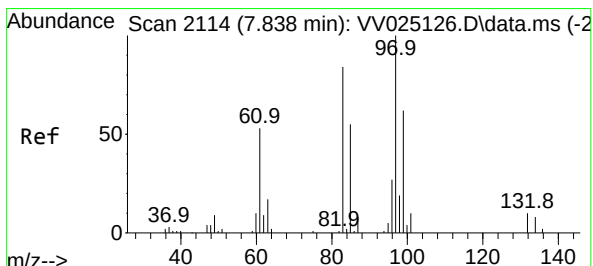
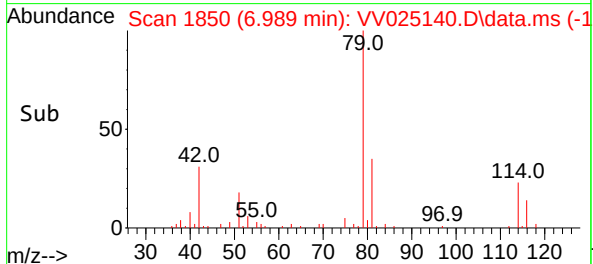
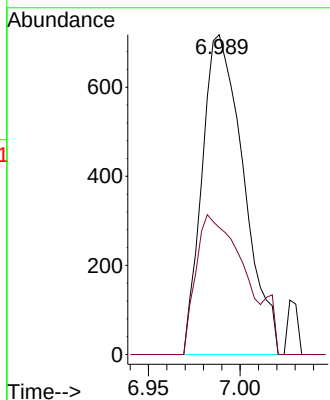
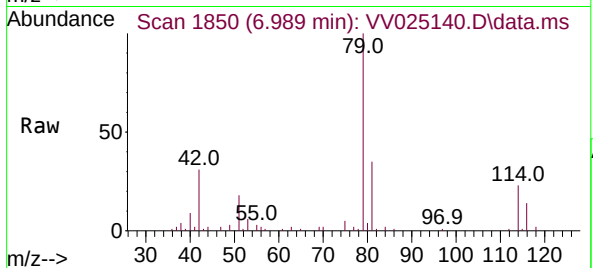
ClientSampleId :

Tgt Ion: 75 Resp: 1129

Ion Ratio Lower Upper

75 100

77 39.7 23.0 42.8



#45

1,1,2-Trichloroethane

Concen: 0.746 ug/L

RT: 7.789 min Scan# 2099

Delta R.T. -0.048 min

Lab File: VV025140.D

Acq: 23 Mar 2022 18:40

Tgt Ion: 97 Resp: 4451

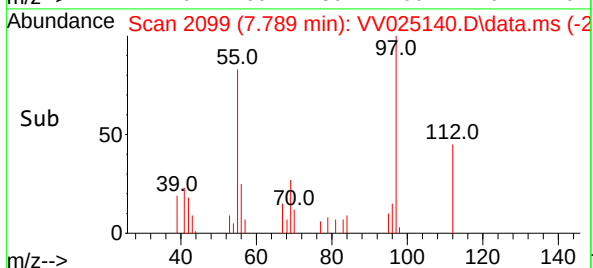
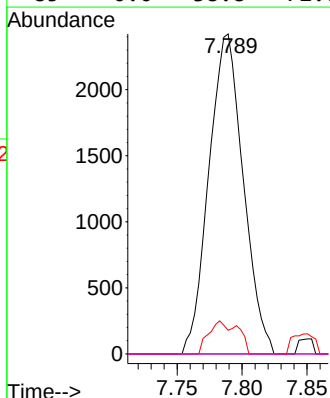
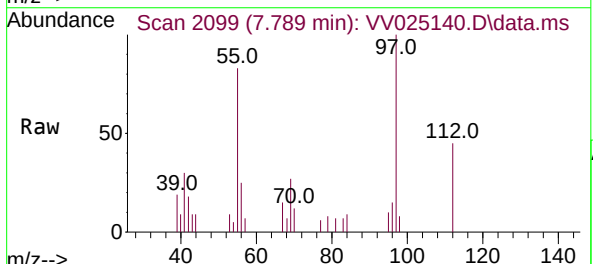
Ion Ratio Lower Upper

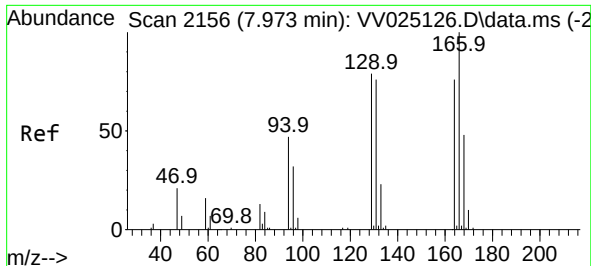
97 100

99 0.0 43.7 81.1#

83 7.4 58.9 109.3#

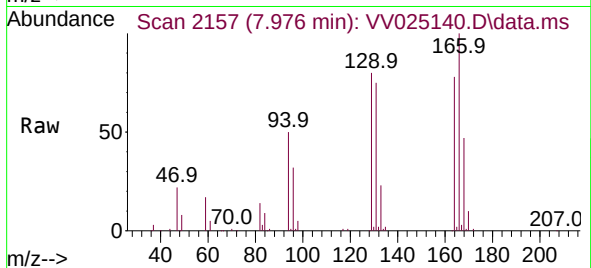
85 0.0 38.8 72.0#



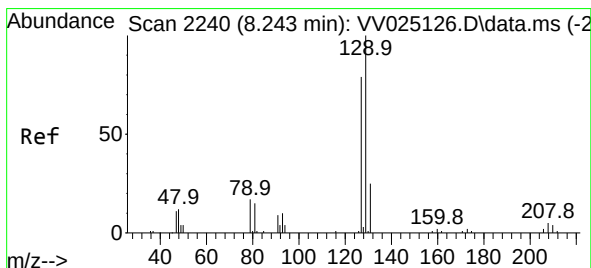
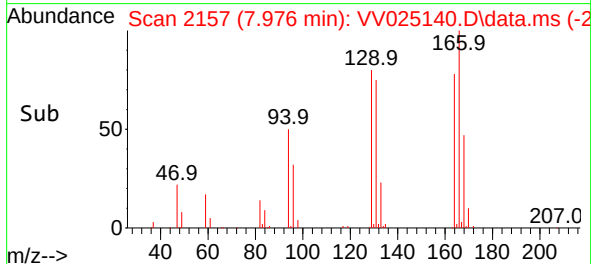
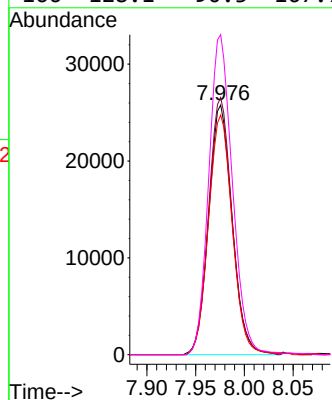


#47
Tetrachloroethene
Concen: 5.958 ug/L
RT: 7.976 min Scan# 2157
Delta R.T. 0.003 min
Lab File: VV025140.D
Acq: 23 Mar 2022 18:40

Instrument :
MSVOA_V
ClientSampleId :

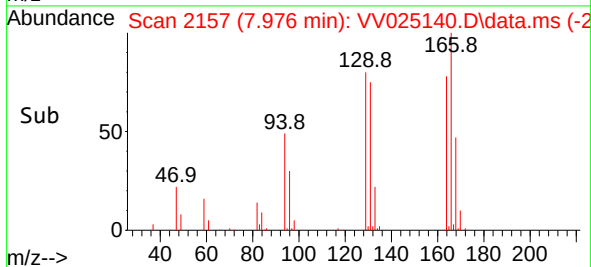
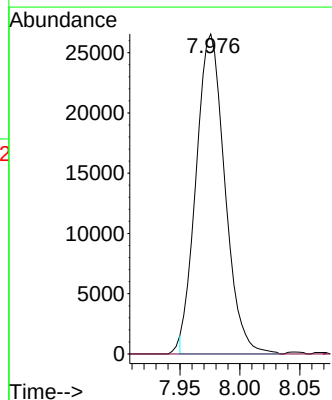
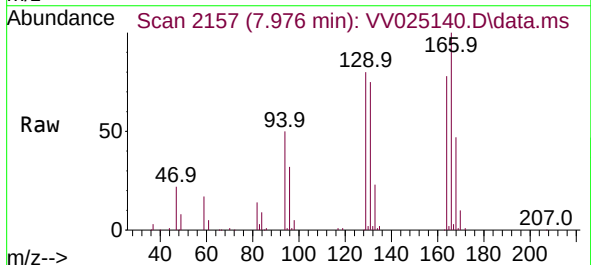


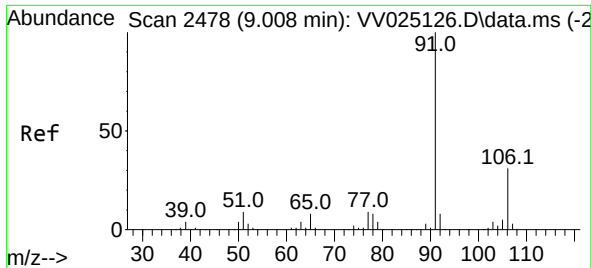
Tgt Ion:164 Resp: 43374
Ion Ratio Lower Upper
164 100
129 102.9 70.3 130.7
131 96.0 69.4 129.0
166 128.1 90.3 167.7



#49
Dibromochloromethane
Concen: 6.614 ug/L
RT: 7.976 min Scan# 2157
Delta R.T. -0.267 min
Lab File: VV025140.D
Acq: 23 Mar 2022 18:40

Tgt Ion:129 Resp: 44164
Ion Ratio Lower Upper
129 100
127 0.0 54.9 102.1#

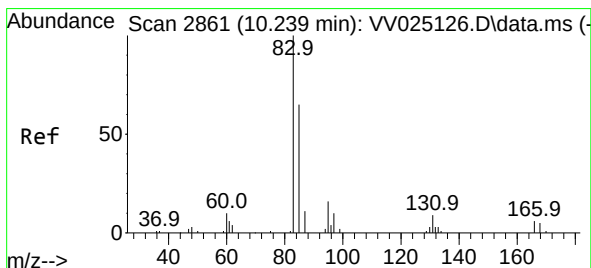
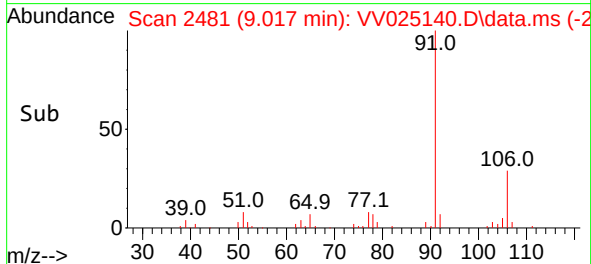
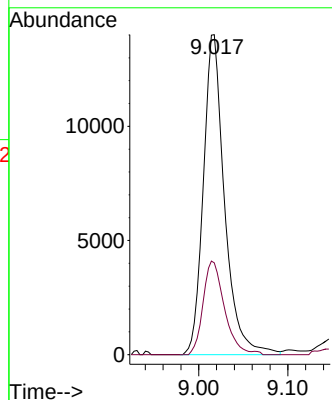
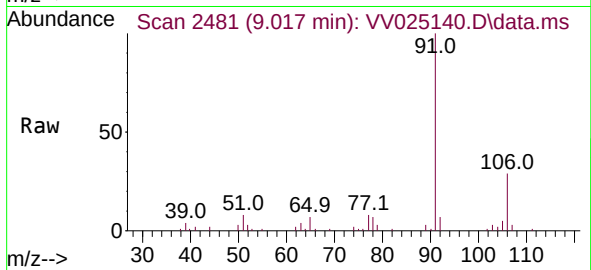




#52
Ethylbenzene
Concen: 0.539 ug/L
RT: 9.017 min Scan# 2478
Delta R.T. 0.009 min
Lab File: VV025140.D
Acq: 23 Mar 2022 18:40

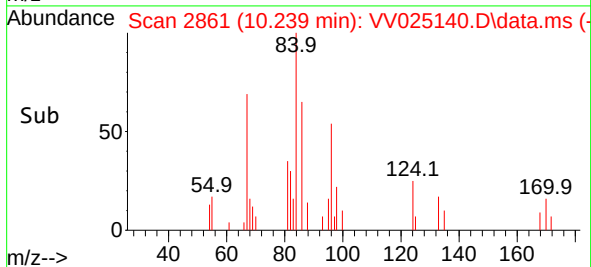
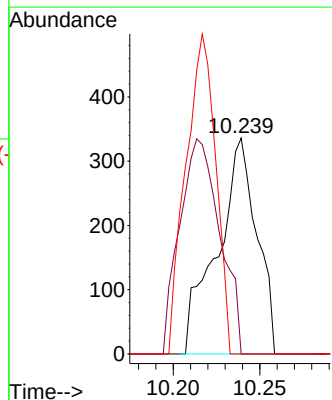
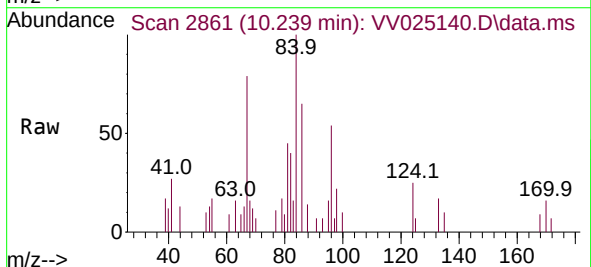
Instrument :
MSVOA_V
ClientSampleId :

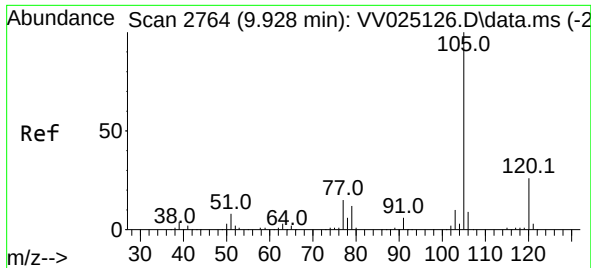
Tgt Ion: 91 Resp: 23181
Ion Ratio Lower Upper
91 100
106 28.7 21.9 40.7



#57
1,1,2,2-Tetrachloroethane
Concen: 0.091 ug/L
RT: 10.239 min Scan# 2861
Delta R.T. -0.000 min
Lab File: VV025140.D
Acq: 23 Mar 2022 18:40

Tgt Ion: 83 Resp: 534
Ion Ratio Lower Upper
83 100
85 0.0 43.9 81.5#
131 0.0 7.5 11.3#

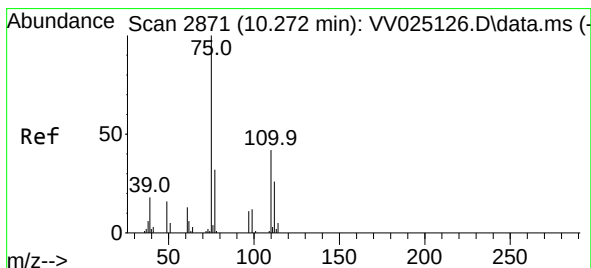
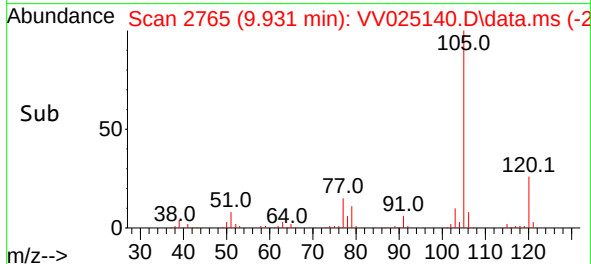
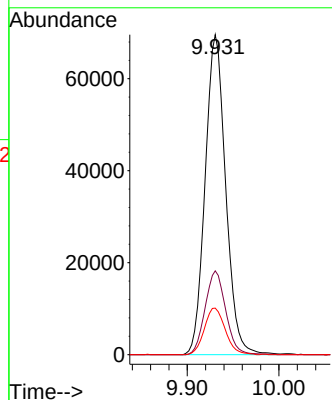
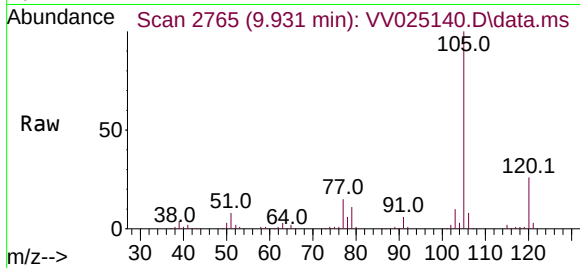




#60
Isopropylbenzene
Concen: 2.497 ug/L
RT: 9.931 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV025140.D
Acq: 23 Mar 2022 18:40

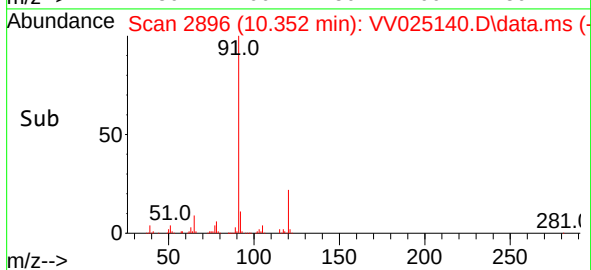
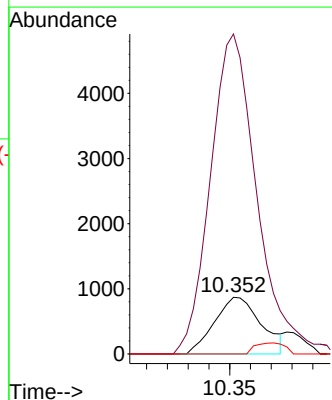
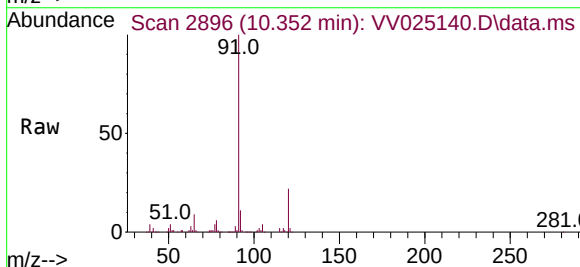
Instrument :
MSVOA_V
ClientSampleId :

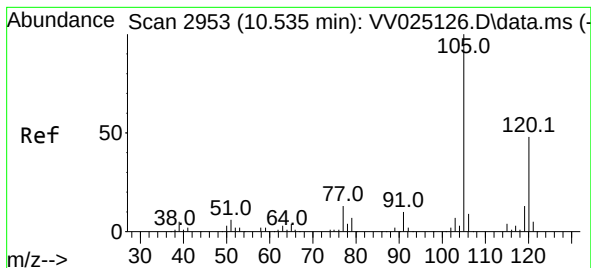
Tgt Ion:105 Resp: 108286
Ion Ratio Lower Upper
105 100
120 26.3 20.7 31.1
77 14.9 12.2 18.2



#61
1,2,3-Trichloropropane
Concen: 0.280 ug/L
RT: 10.352 min Scan# 2896
Delta R.T. 0.080 min
Lab File: VV025140.D
Acq: 23 Mar 2022 18:40

Tgt Ion: 75 Resp: 1355
Ion Ratio Lower Upper
75 100
77 563.5 25.7 38.5#
110 12.4 31.2 46.8#





#62

1,3,5-Trimethylbenzene

Concen: 0.488 ug/L

RT: 10.538 min Scan# 2954

Delta R.T. 0.003 min

Lab File: VV025140.D

Acq: 23 Mar 2022 18:40

Instrument :

MSVOA_V

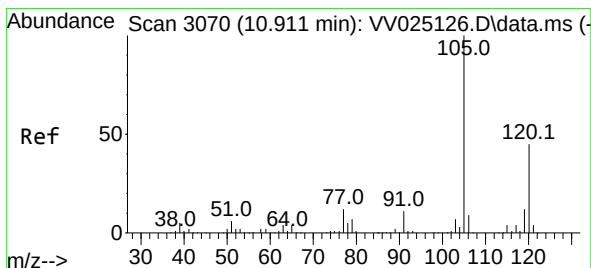
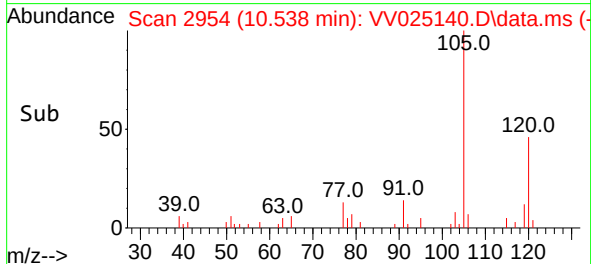
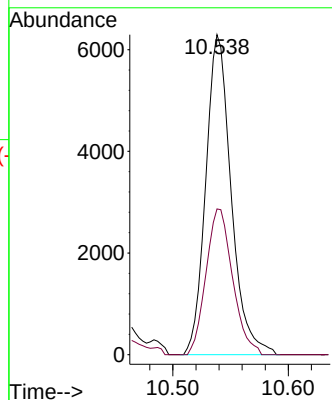
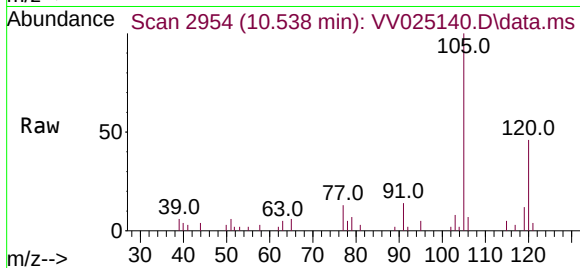
ClientSampleId :

Tgt Ion:105 Resp: 9612

Ion Ratio Lower Upper

105 100

120 47.6 38.5 57.7



#63

1,2,4-Trimethylbenzene

Concen: 0.276 ug/L

RT: 10.538 min Scan# 2954

Delta R.T. -0.373 min

Lab File: VV025140.D

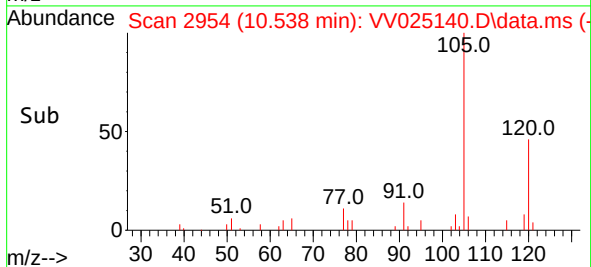
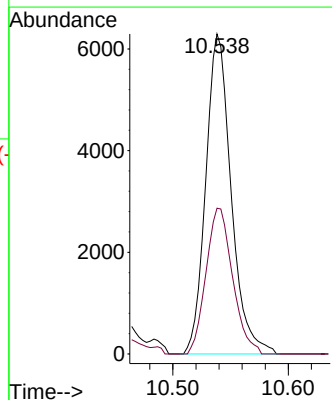
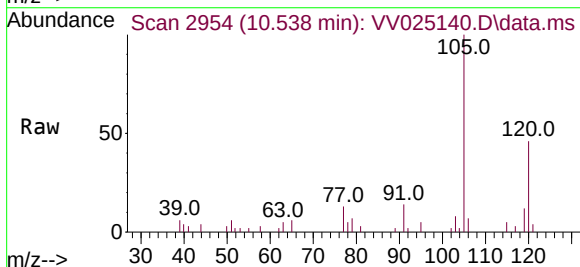
Acq: 23 Mar 2022 18:40

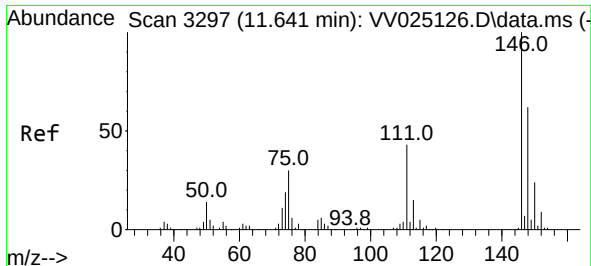
Tgt Ion:105 Resp: 9612

Ion Ratio Lower Upper

105 100

120 47.6 35.8 53.8





#67

1,2-Dichlorobenzene

Concen: 1.513 ug/L

RT: 11.641 min Scan# 31

Delta R.T. -0.000 min

Lab File: VV025140.D

Acq: 23 Mar 2022 18:40

Instrument :

MSVOA_V

ClientSampleId :

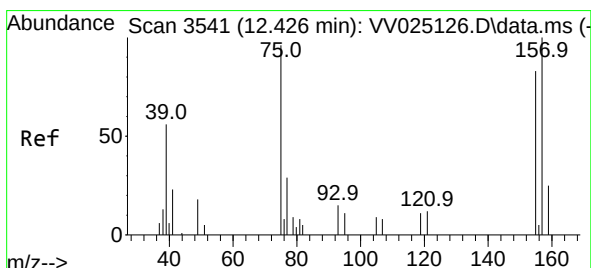
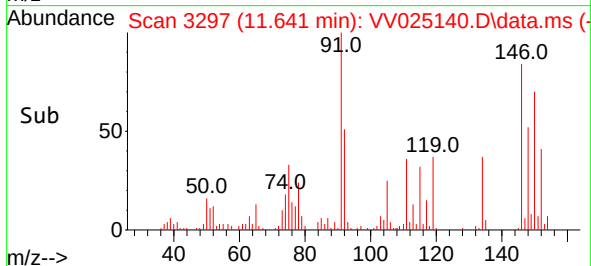
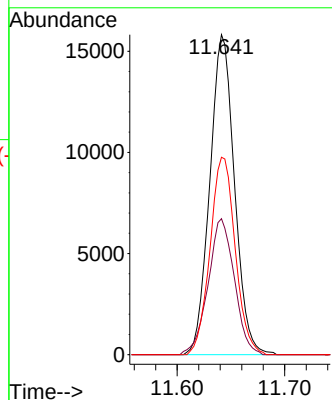
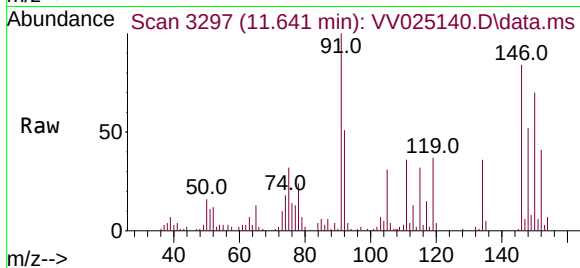
Tgt Ion:146 Resp: 25216

Ion Ratio Lower Upper

146 100

111 42.5 35.5 53.3

148 61.7 49.7 74.5



#68

1,2-Dibromo-3-chloropropane

Concen: 0.172 ug/L

RT: 12.287 min Scan# 3498

Delta R.T. -0.138 min

Lab File: VV025140.D

Acq: 23 Mar 2022 18:40

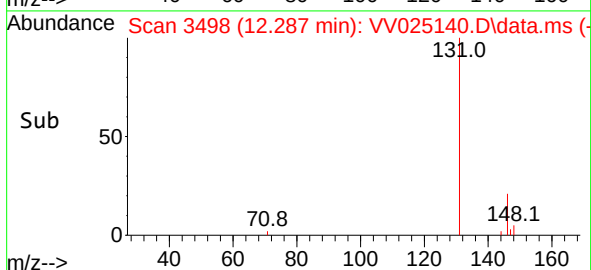
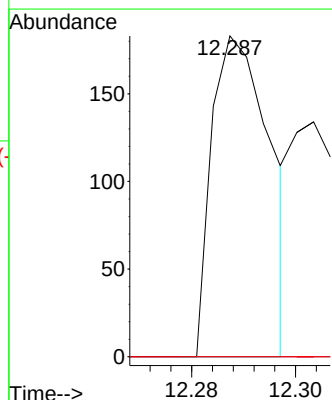
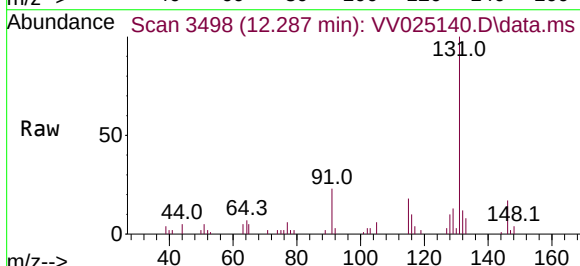
Tgt Ion: 75 Resp: 143

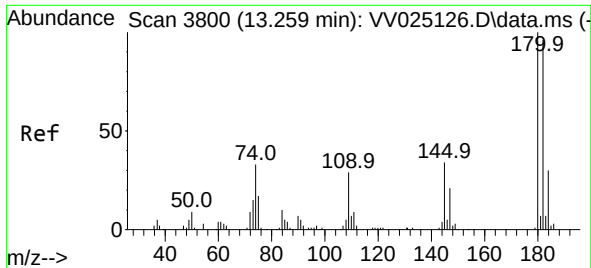
Ion Ratio Lower Upper

75 100

155 0.0 65.9 98.9#

157 0.0 89.7 134.5#

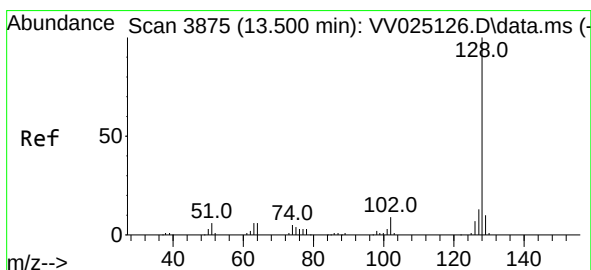
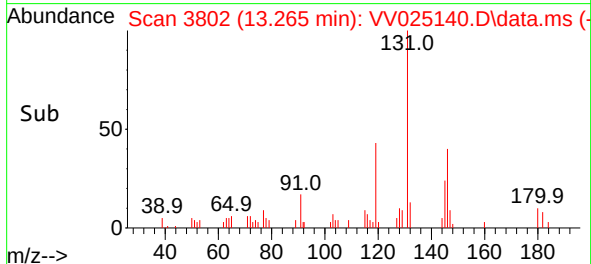
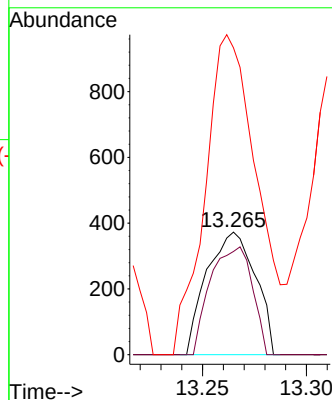
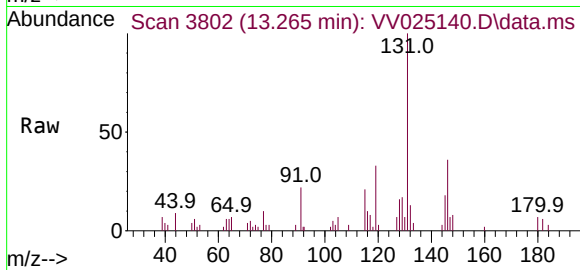




#70
1,2,4-trichlorobenzene
Concen: 0.059 ug/L
RT: 13.265 min Scan# 3802
Delta R.T. 0.006 min
Lab File: VV025140.D
Acq: 23 Mar 2022 18:40

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion:180 Resp: 608
Ion Ratio Lower Upper
180 100
182 75.7 74.6 112.0
145 274.5 26.1 39.1#



#71
Naphthalene
Concen: 4.877 ug/L
RT: 13.500 min Scan# 3875
Delta R.T. -0.000 min
Lab File: VV025140.D
Acq: 23 Mar 2022 18:40

Tgt Ion:128 Resp: 83842
Ion Ratio Lower Upper
128 100
129 11.6 8.5 12.7
127 12.4 9.8 14.8

