

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW110921\
 Data File : VW023345.D
 Acq On : 10 Nov 2021 20:24
 Operator : SY/MD
 Sample : M4542-01
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 11 00:45:52 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR110421WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Nov 11 00:38:57 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.619	114	136395	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.853	117	136893	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	76656	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	25843	3.024	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	60.400%
7) Chloroethane-d5	1.568	69	24896	3.575	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	71.400%
11) 1,1-Dichloroethene-d2	2.108	63	39474	2.468	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	49.400%#
20) 2-Butanone-d5	3.886	46	97346	66.128	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	132.260%#
24) Chloroform-d	4.352	84	71915	3.949	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	79.000%
26) 1,2-Dichloroethane-d4	5.037	65	36929	4.510	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.200%
32) Benzene-d6	5.053	84	131546	3.745	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	75.000%
36) 1,2-Dichloropropane-d6	6.072	67	44580	4.312	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	86.200%
41) Toluene-d8	7.320	98	110535	3.358	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	67.200%#
43) trans-1,3-Dichloroprop...	7.628	79	14940	3.811	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	76.200%
46) 2-Hexanone-d5	8.088	63	78294	54.277	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	108.560%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	34981	4.705	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	94.000%
66) 1,2-Dichlorobenzene-d4	11.625	152	56496	4.426	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	88.600%
Target Compounds						
					Qvalue	
3) Chloromethane	1.240	50	5045	0.446	ug/L	98
5) Vinyl chloride	1.310	62	5800	0.514	ug/L	94
12) 1,1-Dichloroethene	2.117	96	1527	0.188	ug/L #	1
13) Acetone	2.175	43	4789	5.324	ug/L	91
14) Carbon disulfide	2.294	76	1585	0.052	ug/L #	93
19) 1,1-Dichloroethane	3.191	63	11446	0.678	ug/L	97
22) cis-1,2-Dichloroethene	3.915	96	22870	2.377	ug/L #	100
25) Chloroform	4.381	83	16078	0.893	ug/L	96
29) 1,1,1-Trichloroethane	4.616	97	18854	1.134	ug/L	98
33) Benzene	5.108	78	4686	0.122	ug/L	100
34) Trichloroethene	5.915	95	99414	9.770	ug/L	98
35) Methylcyclohexane	6.130	83	4266	0.266	ug/L	93
37) 1,2-Dichloropropane	6.072	63	4997	0.559	ug/L #	83
42) Toluene	7.391	91	69614	1.701	ug/L	95
47) Tetrachloroethene	7.982	164	3466	0.393	ug/L	91
49) Dibromochloromethane	7.979	129	3173	0.390	ug/L #	10
51) Chlorobenzene	8.882	112	194811	7.162	ug/L	98
52) Ethylbenzene	9.021	91	6307	0.146	ug/L	94
53) m,p-xylene	9.146	106	2100	0.124	ug/L	97

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

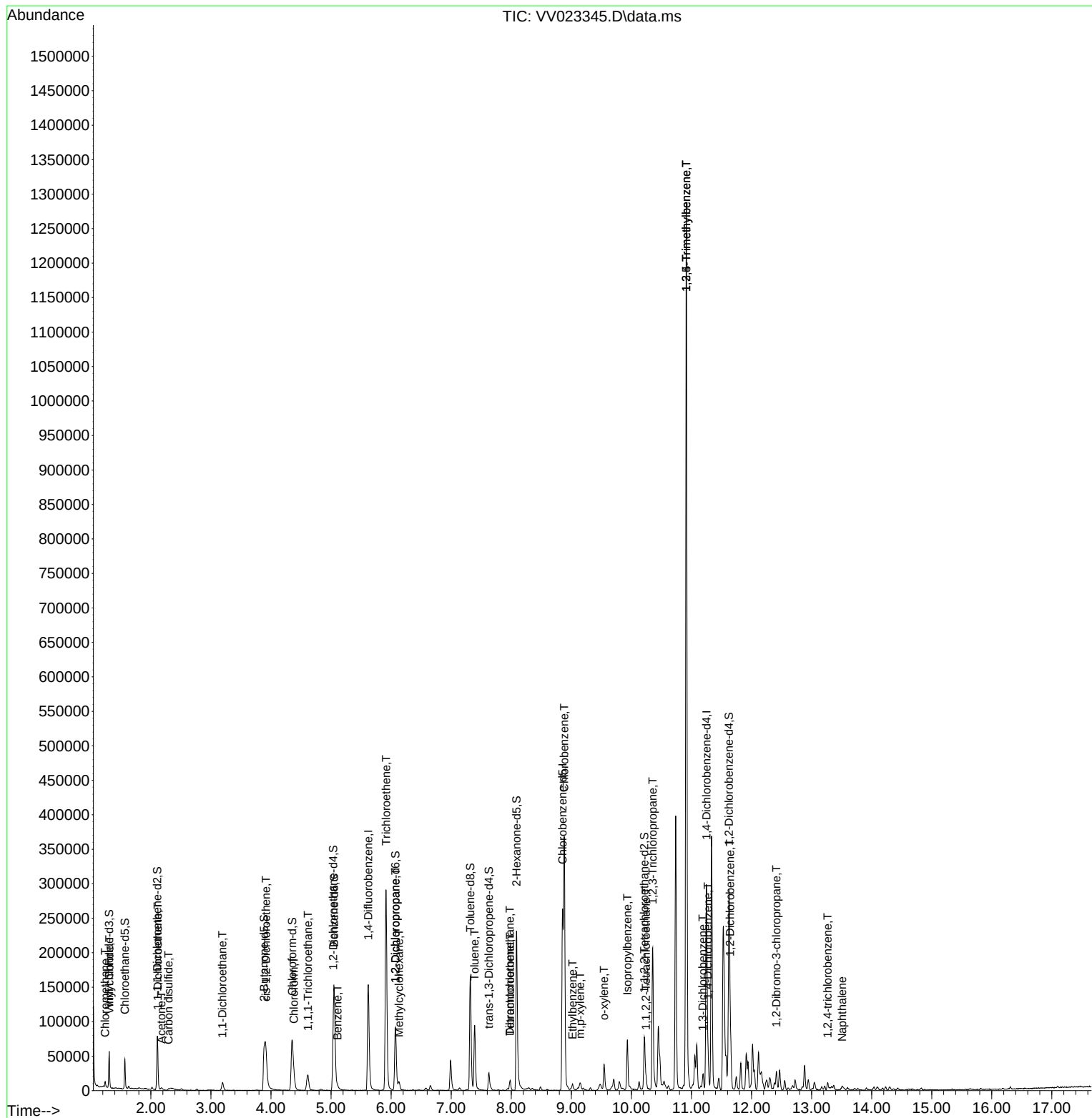
54) o-xylene	9.545	106	9307	0.586	ug/L	94
57) 1,1,2,2-Tetrachloroethane	10.243	83	1776	0.253	ug/L #	74
60) Isopropylbenzene	9.934	105	43171	0.981	ug/L	99
61) 1,2,3-Trichloropropane	10.352	75	1015	0.199	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.914	105	668014	18.315	ug/L	95
63) 1,2,4-Trimethylbenzene	10.914	105	668014	18.401	ug/L	99
64) 1,3-Dichlorobenzene	11.188	146	2576	0.115	ug/L #	78
65) 1,4-Dichlorobenzene	11.275	146	19892	0.867	ug/L	98
67) 1,2-Dichlorobenzene	11.644	146	14924	0.742	ug/L	94
68) 1,2-Dibromo-3-chloropr...	12.413	75	119	0.110	ug/L #	1
70) 1,2,4-trichlorobenzene	13.268	180	807	0.057	ug/L #	63
71) Naphthalene	13.509	128	4147	0.200	ug/L #	94

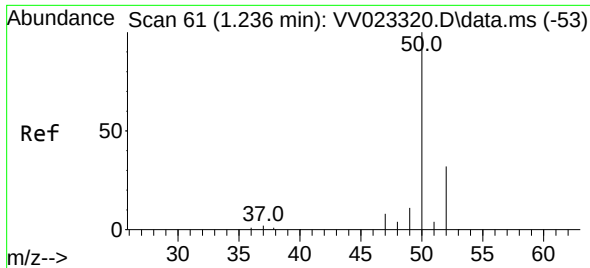
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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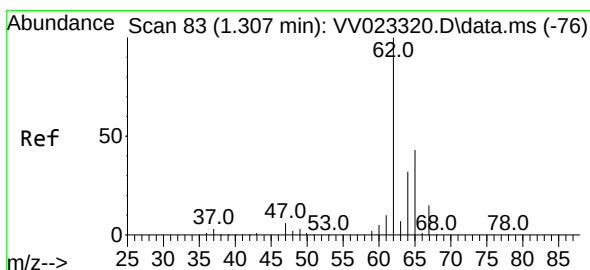
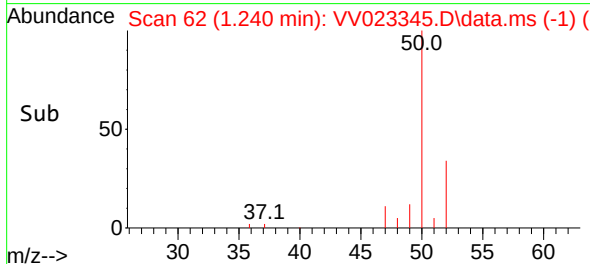
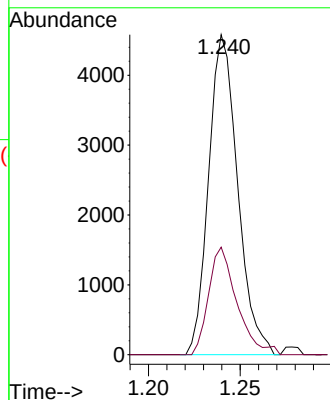
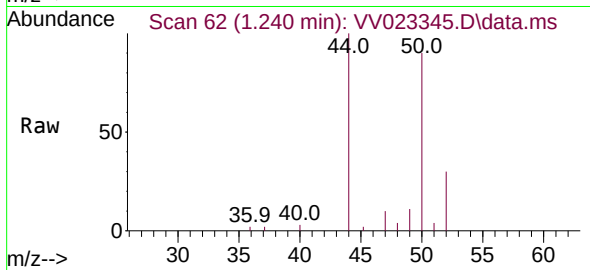




#3
Chloromethane
Concen: 0.446 ug/L
RT: 1.240 min Scan# 61
Delta R.T. 0.003 min
Lab File: VV023345.D
Acq: 10 Nov 2021 20:24

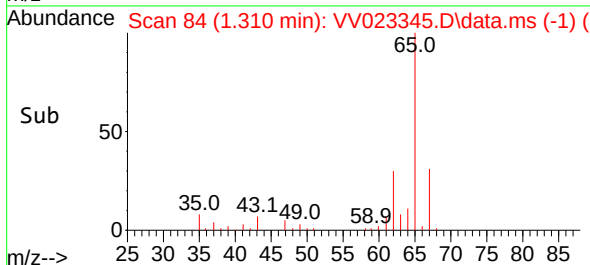
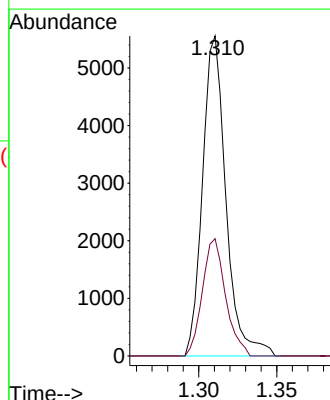
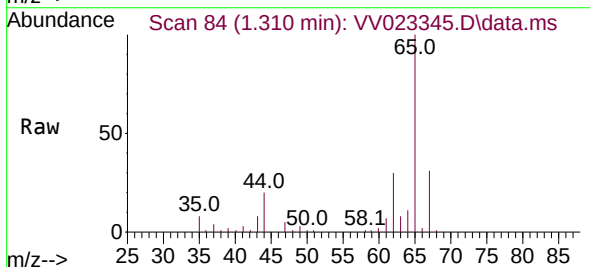
Instrument :
MSVOA_V
ClientSampleId :

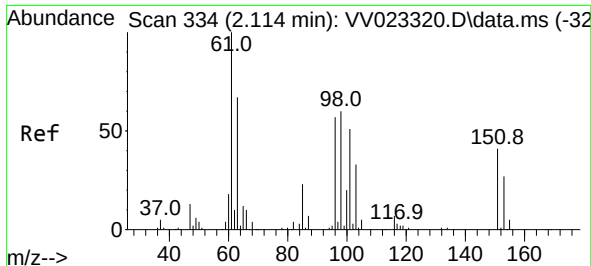
Tgt Ion: 50 Resp: 5045
Ion Ratio Lower Upper
50 100
52 33.6 24.3 45.1



#5
Vinyl chloride
Concen: 0.514 ug/L
RT: 1.310 min Scan# 84
Delta R.T. 0.003 min
Lab File: VV023345.D
Acq: 10 Nov 2021 20:24

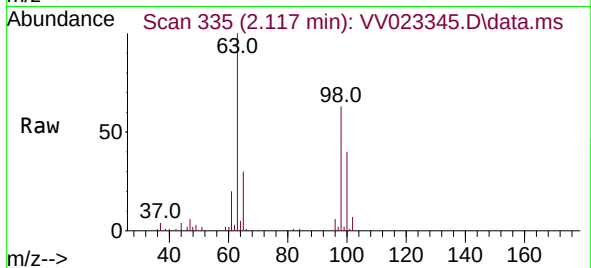
Tgt Ion: 62 Resp: 5800
Ion Ratio Lower Upper
62 100
64 36.6 23.1 42.9



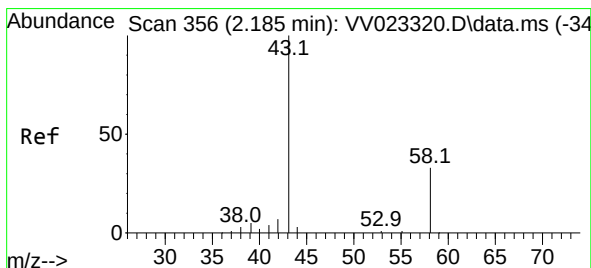
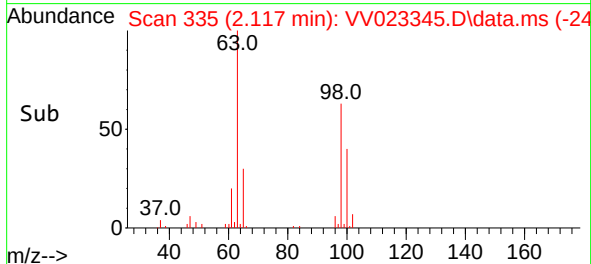
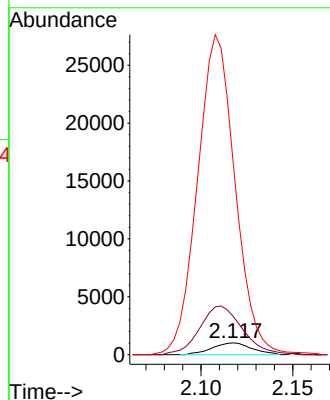


#12
1,1-Dichloroethene
Concen: 0.188 ug/L
RT: 2.117 min Scan# 31
Delta R.T. 0.003 min
Lab File: VV023345.D
Acq: 10 Nov 2021 20:24

Instrument :
MSVOA_V
ClientSampleId :

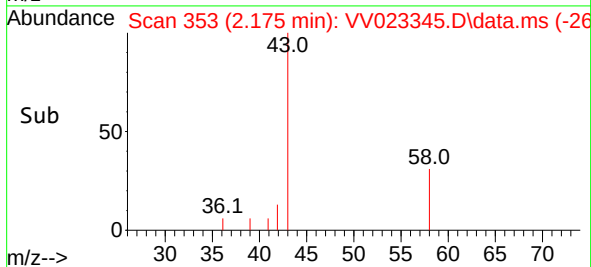
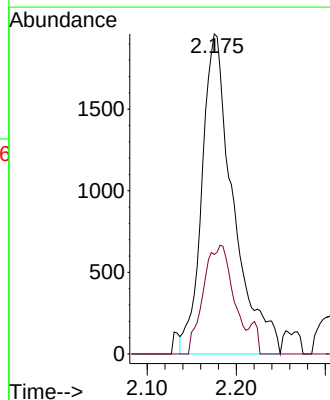
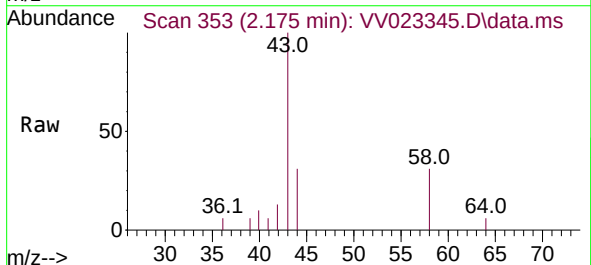


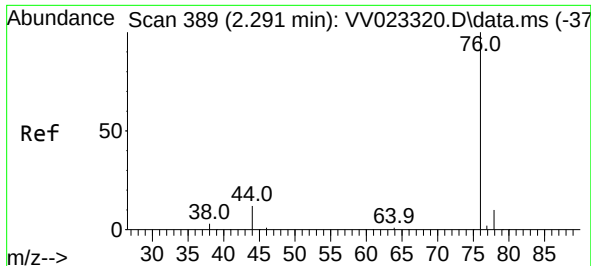
Tgt Ion: 96 Resp: 1527
Ion Ratio Lower Upper
96 100
61 324.0 121.5 225.7#
63 1626.4 99.6 185.0#



#13
Acetone
Concen: 5.324 ug/L
RT: 2.175 min Scan# 353
Delta R.T. -0.010 min
Lab File: VV023345.D
Acq: 10 Nov 2021 20:24

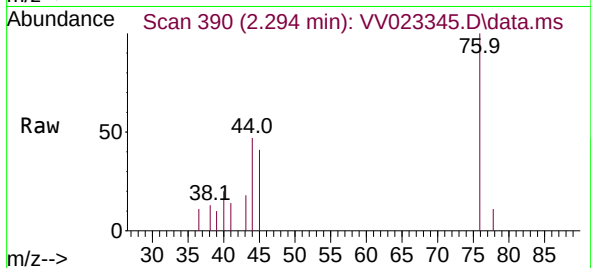
Tgt Ion: 43 Resp: 4789
Ion Ratio Lower Upper
43 100
58 32.2 0.0 55.4



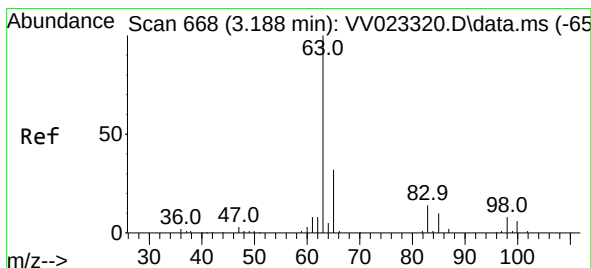
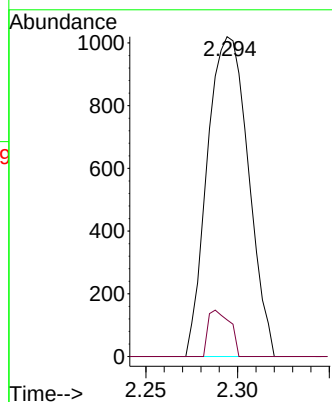
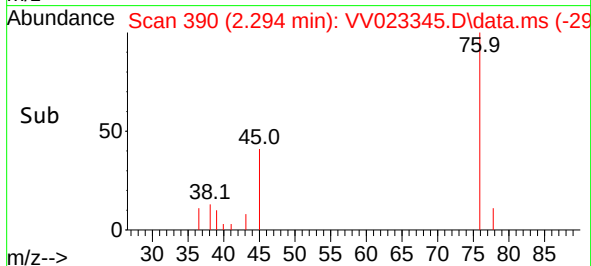


#14
Carbon disulfide
Concen: 0.052 ug/L
RT: 2.294 min Scan# 31
Delta R.T. 0.003 min
Lab File: VV023345.D
Acq: 10 Nov 2021 20:24

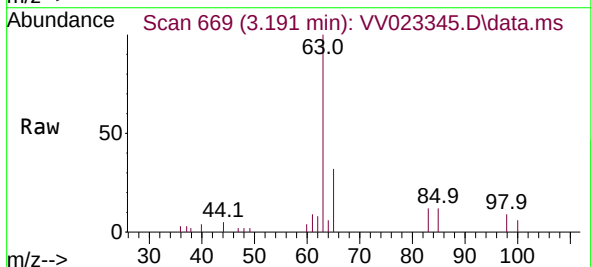
Instrument :
MSVOA_V
ClientSampleId :



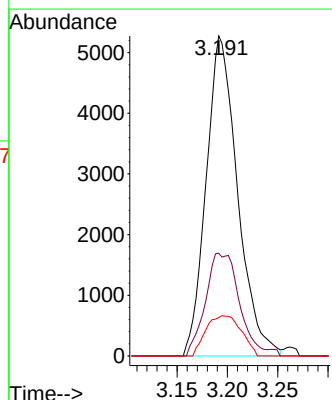
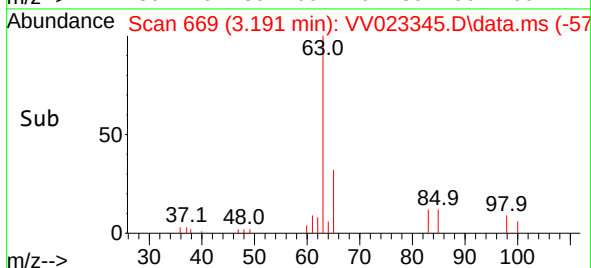
Tgt Ion: 76 Resp: 1585
Ion Ratio Lower Upper
76 100
78 11.5 7.2 10.8#

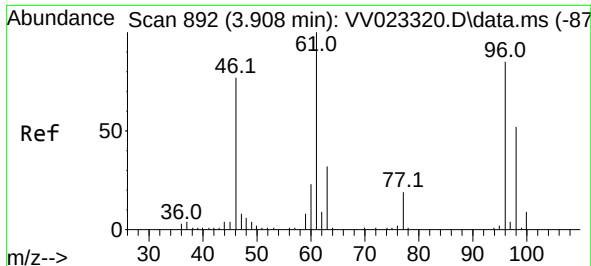


#19
1,1-Dichloroethane
Concen: 0.678 ug/L
RT: 3.191 min Scan# 669
Delta R.T. 0.003 min
Lab File: VV023345.D
Acq: 10 Nov 2021 20:24



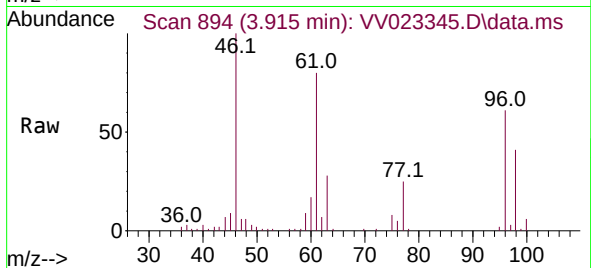
Tgt Ion: 63 Resp: 11446
Ion Ratio Lower Upper
63 100
65 32.1 22.6 42.0
83 12.0 11.1 20.7



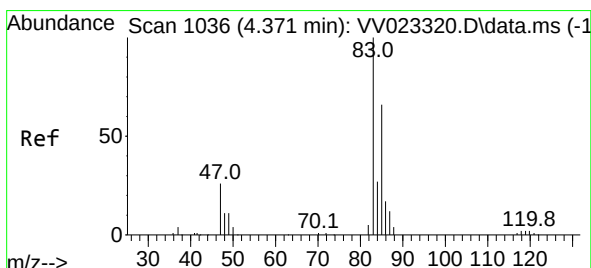
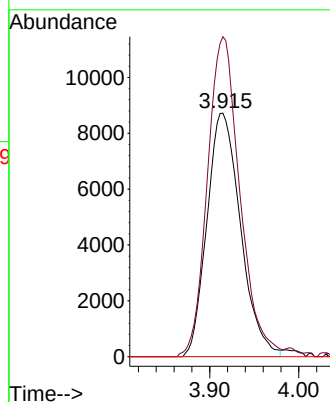
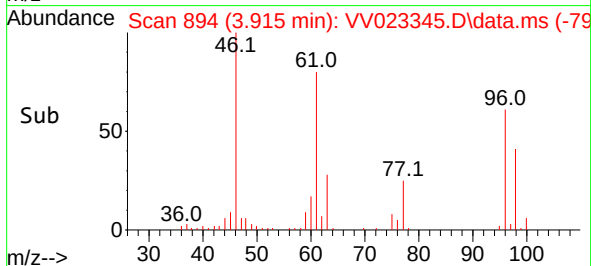


#22
 cis-1,2-Dichloroethene
 Concen: 2.377 ug/L
 RT: 3.915 min Scan# 894
 Delta R.T. 0.006 min
 Lab File: VV023345.D
 Acq: 10 Nov 2021 20:24

Instrument :
 MSVOA_V
 ClientSampleId :

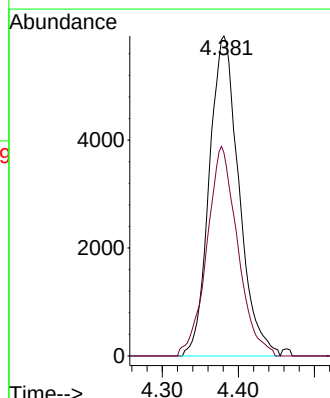
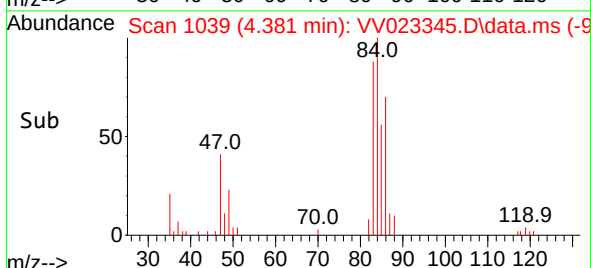
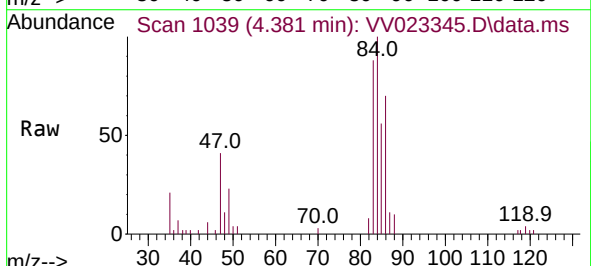


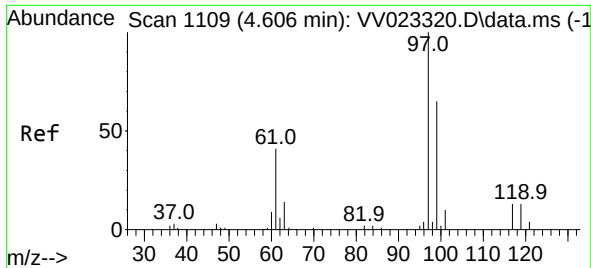
Tgt Ion: 96 Resp: 22870
 Ion Ratio Lower Upper
 96 100
 61 131.4 92.3 171.3
 68 0.0 0.4 0.8#



#25
 Chloroform
 Concen: 0.893 ug/L
 RT: 4.381 min Scan# 1039
 Delta R.T. 0.010 min
 Lab File: VV023345.D
 Acq: 10 Nov 2021 20:24

Tgt Ion: 83 Resp: 16078
 Ion Ratio Lower Upper
 83 100
 85 63.6 46.8 86.8





#29

1,1,1-Trichloroethane

Concen: 1.134 ug/L

RT: 4.616 min Scan# 1112

Delta R.T. 0.010 min

Lab File: VV023345.D

Acq: 10 Nov 2021 20:24

Instrument :

MSVOA_V

ClientSampleId :

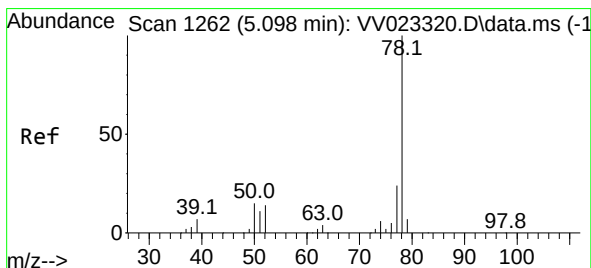
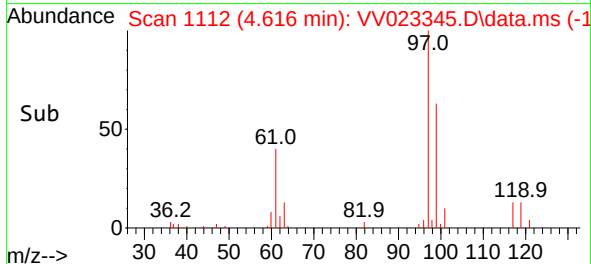
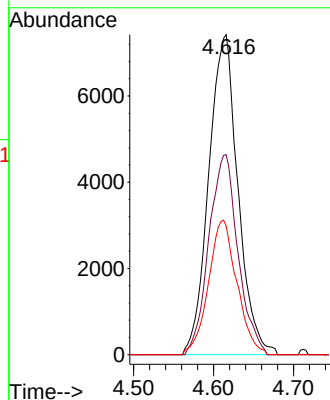
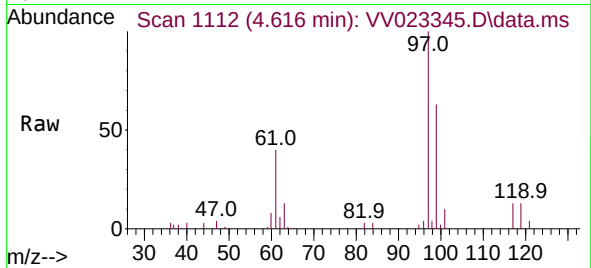
Tgt Ion: 97 Resp: 18854

Ion Ratio Lower Upper

97 100

99 62.2 51.0 76.4

61 41.0 34.1 51.1



#33

Benzene

Concen: 0.122 ug/L

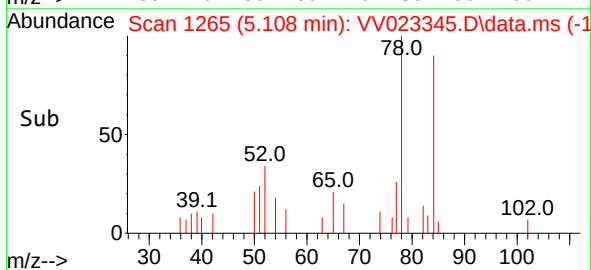
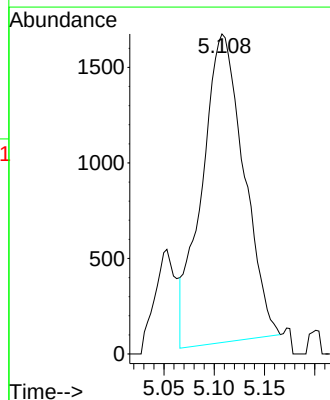
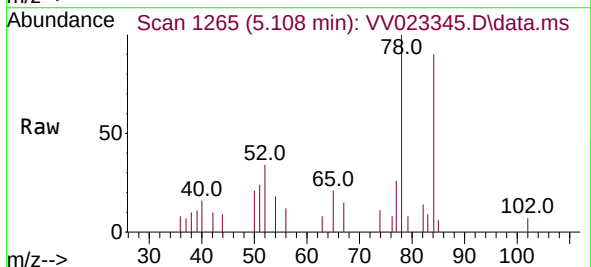
RT: 5.108 min Scan# 1265

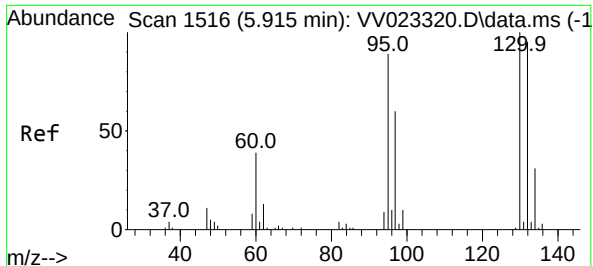
Delta R.T. 0.010 min

Lab File: VV023345.D

Acq: 10 Nov 2021 20:24

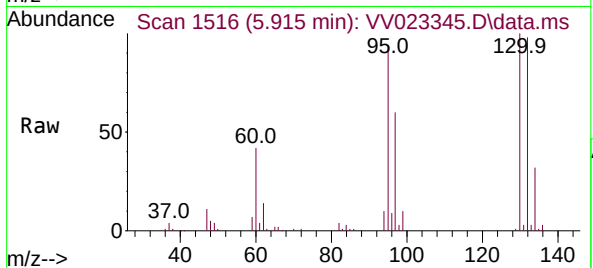
Tgt Ion: 78 Resp: 4686



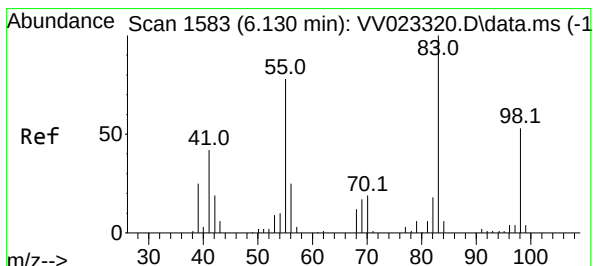
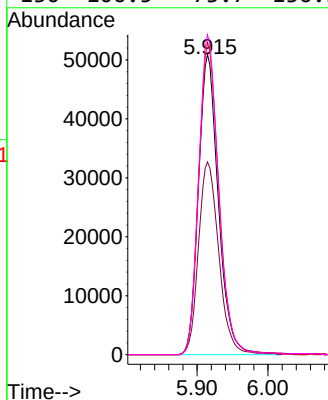
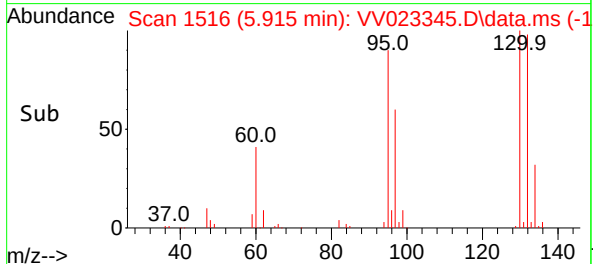


#34
Trichloroethene
Concen: 9.770 ug/L
RT: 5.915 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VV023345.D
Acq: 10 Nov 2021 20:24

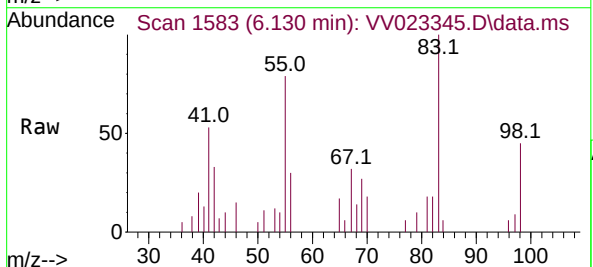
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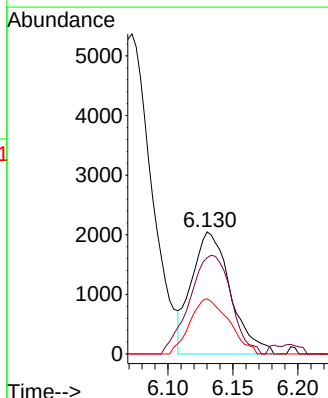
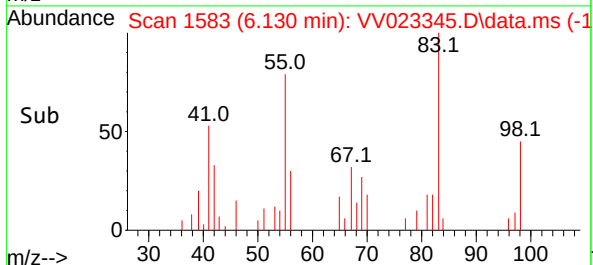
Tgt Ion: 95 Resp: 99414
Ion Ratio Lower Upper
95 100
97 64.2 45.0 83.6
132 103.9 69.7 129.4
130 106.5 73.7 136.9

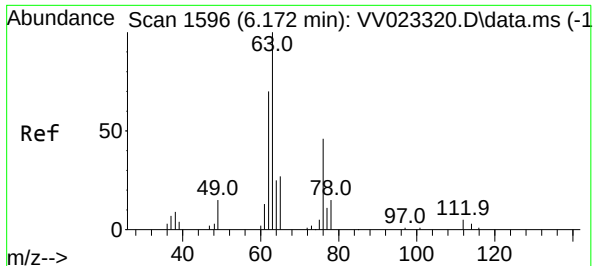


#35
Methylcyclohexane
Concen: 0.266 ug/L
RT: 6.130 min Scan# 1583
Delta R.T. -0.000 min
Lab File: VV023345.D
Acq: 10 Nov 2021 20:24



Tgt Ion: 83 Resp: 4266
Ion Ratio Lower Upper
83 100
55 85.8 62.8 94.2
98 45.1 37.9 56.9





#37

1,2-Dichloropropane

Concen: 0.559 ug/L

RT: 6.072 min Scan# 1

Delta R.T. -0.100 min

Lab File: VV023345.D

Acq: 10 Nov 2021 20:24

Instrument :

MSVOA_V

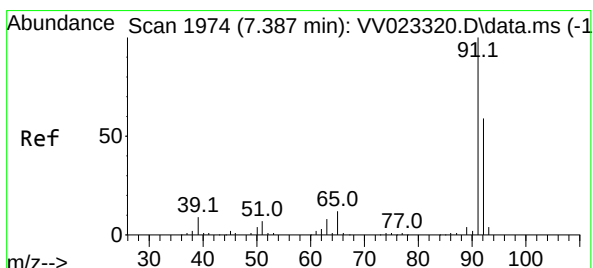
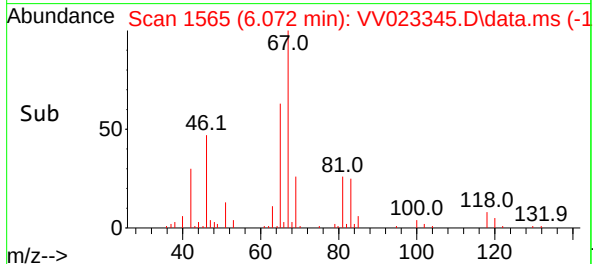
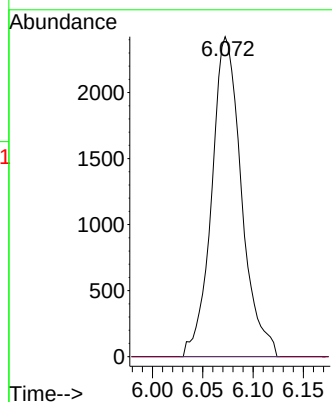
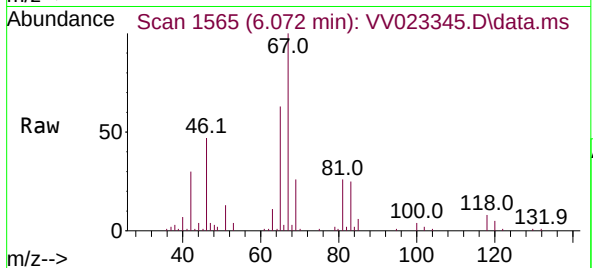
ClientSampleId :

Tgt Ion: 63 Resp: 4997

Ion Ratio Lower Upper

63 100

112 0.0 4.6 6.8#



#42

Toluene

Concen: 1.701 ug/L

RT: 7.391 min Scan# 1975

Delta R.T. 0.003 min

Lab File: VV023345.D

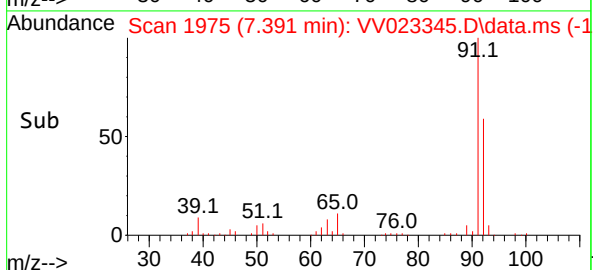
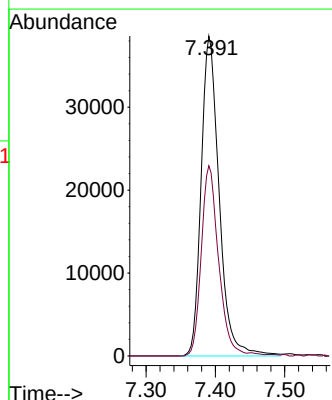
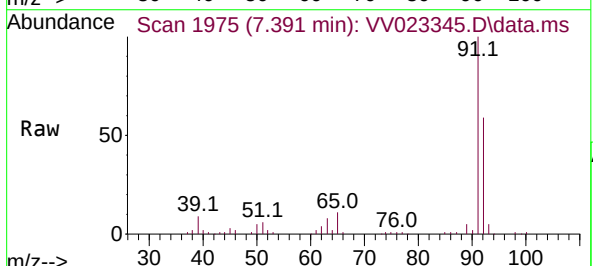
Acq: 10 Nov 2021 20:24

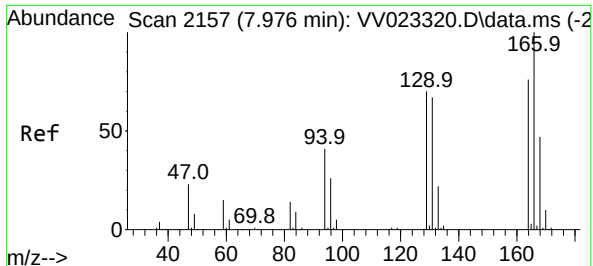
Tgt Ion: 91 Resp: 69614

Ion Ratio Lower Upper

91 100

92 59.4 39.3 72.9





#47

Tetrachloroethene

Concen: 0.393 ug/L

RT: 7.982 min Scan# 2158

Delta R.T. 0.006 min

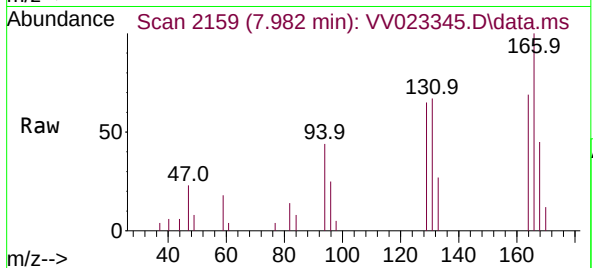
Lab File: VV023345.D

Acq: 10 Nov 2021 20:24

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:164 Resp: 3466

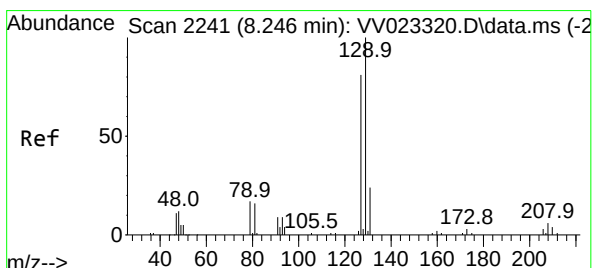
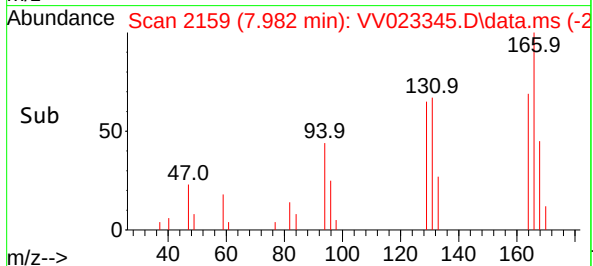
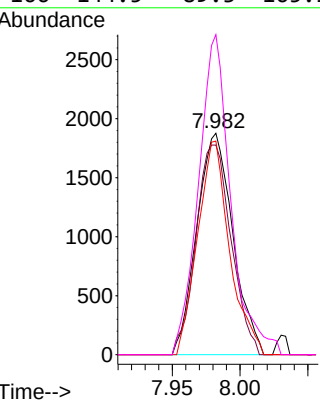
Ion Ratio Lower Upper

164 100

129 94.6 64.0 119.0

131 96.4 63.4 117.8

166 144.5 89.3 165.9



#49

Dibromochloromethane

Concen: 0.390 ug/L

RT: 7.979 min Scan# 2158

Delta R.T. -0.267 min

Lab File: VV023345.D

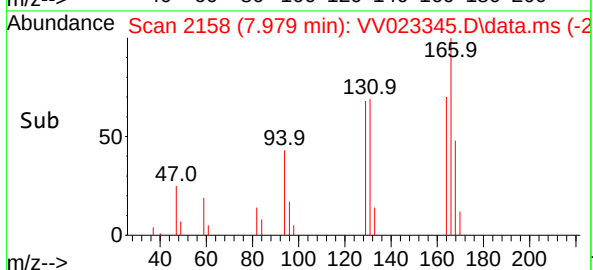
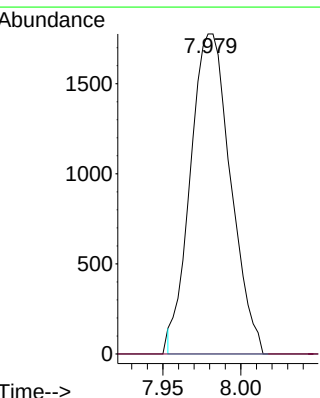
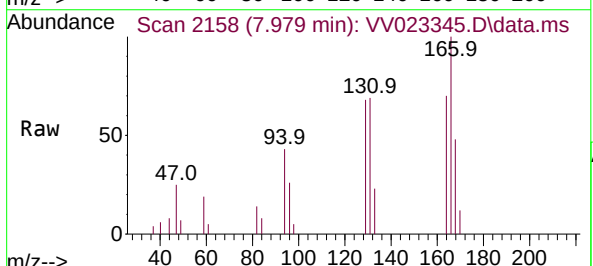
Acq: 10 Nov 2021 20:24

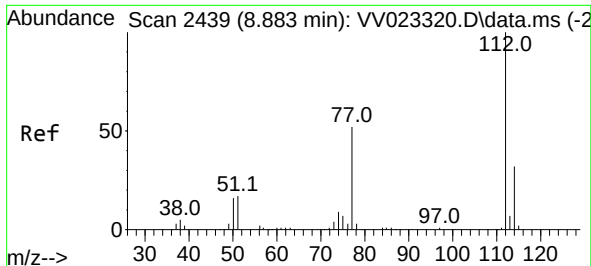
Tgt Ion:129 Resp: 3173

Ion Ratio Lower Upper

129 100

127 0.0 54.7 101.7#

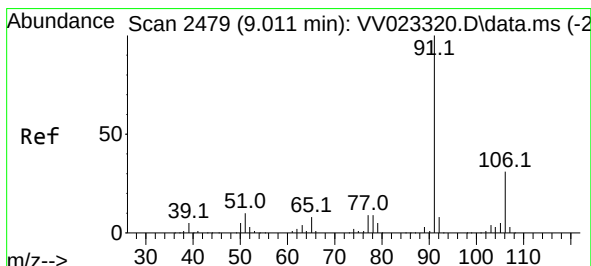
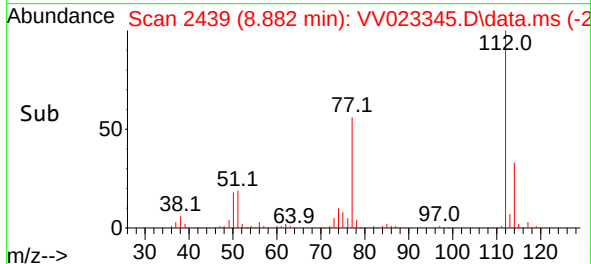
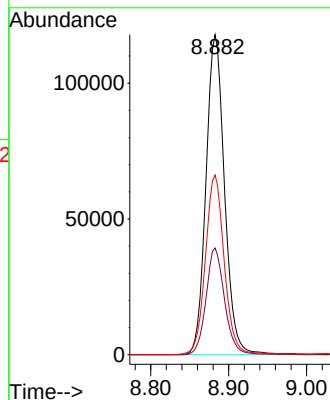
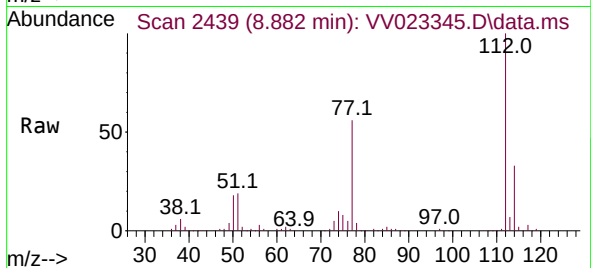




#51
Chlorobenzene
Concen: 7.162 ug/L
RT: 8.882 min Scan# 2439
Delta R.T. -0.000 min
Lab File: VV023345.D
Acq: 10 Nov 2021 20:24

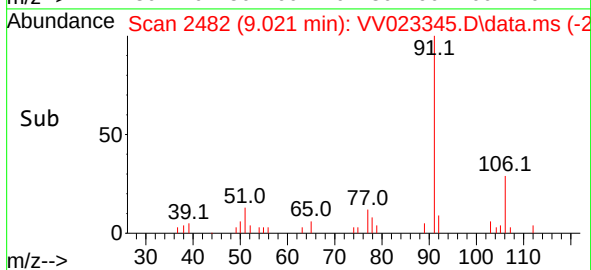
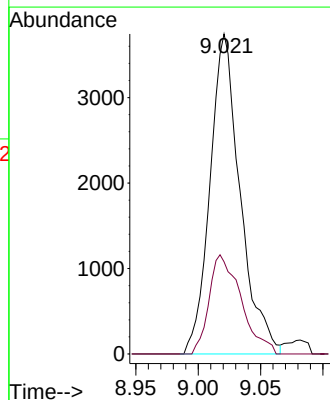
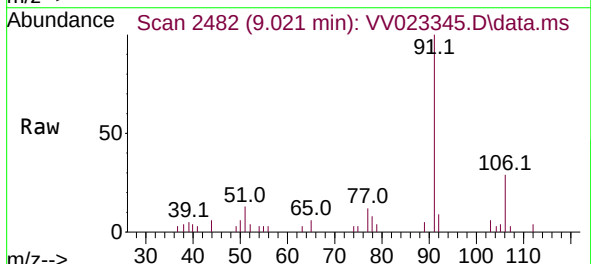
Instrument :
MSVOA_V
ClientSampleId :

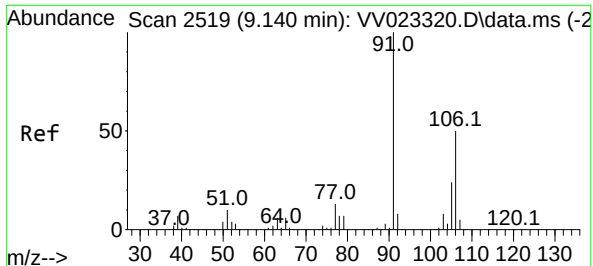
Tgt Ion:112 Resp: 194811
Ion Ratio Lower Upper
112 100
114 33.3 22.0 40.8
77 56.2 44.4 66.6



#52
Ethylbenzene
Concen: 0.146 ug/L
RT: 9.021 min Scan# 2482
Delta R.T. 0.010 min
Lab File: VV023345.D
Acq: 10 Nov 2021 20:24

Tgt Ion: 91 Resp: 6307
Ion Ratio Lower Upper
91 100
106 28.8 22.5 41.9

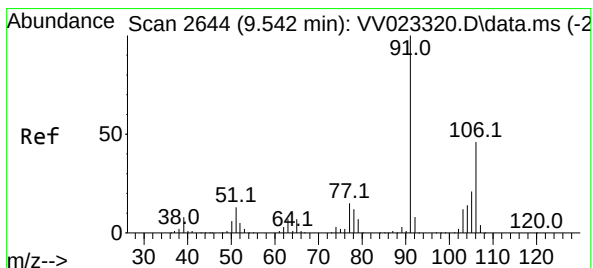
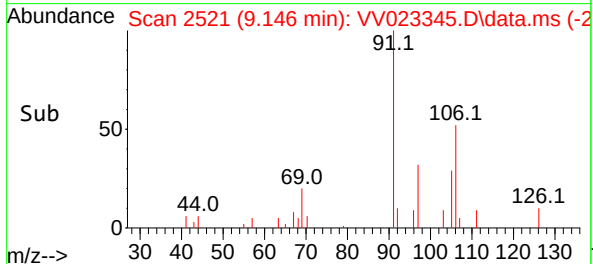
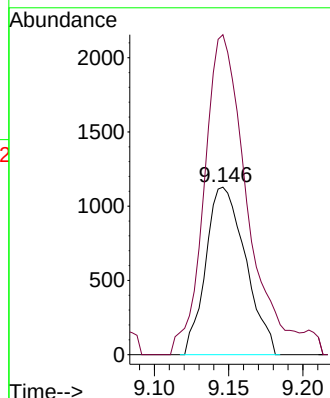
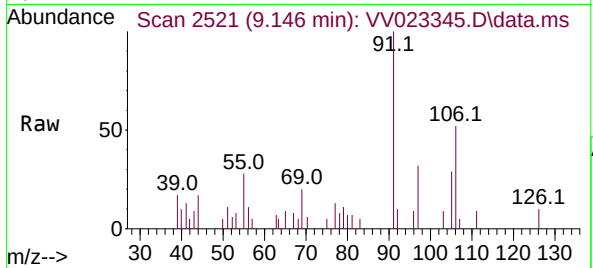




#53
m,p-xylene
Concen: 0.124 ug/L
RT: 9.146 min Scan# 2100
Delta R.T. 0.006 min
Lab File: VV023345.D
Acq: 10 Nov 2021 20:24

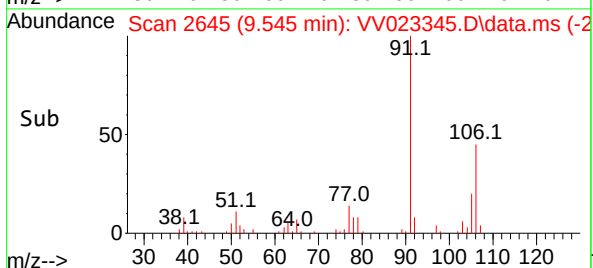
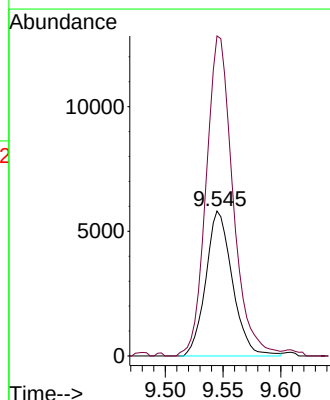
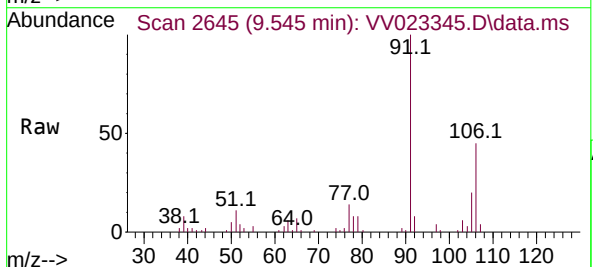
Instrument :
MSVOA_V
ClientSampleId :

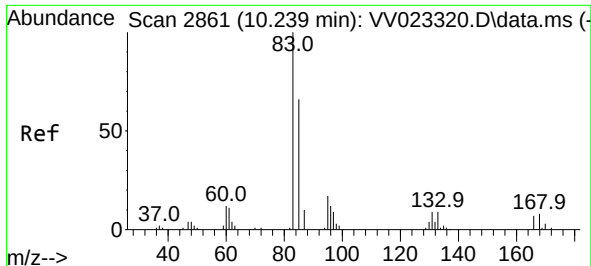
Tgt Ion:106 Resp: 2100
Ion Ratio Lower Upper
106 100
91 191.0 137.2 254.8



#54
o-xylene
Concen: 0.586 ug/L
RT: 9.545 min Scan# 2645
Delta R.T. 0.003 min
Lab File: VV023345.D
Acq: 10 Nov 2021 20:24

Tgt Ion:106 Resp: 9307
Ion Ratio Lower Upper
106 100
91 220.8 148.3 275.5





#57

1,1,2,2-Tetrachloroethane

Concen: 0.253 ug/L

RT: 10.243 min Scan# 2861

Delta R.T. 0.003 min

Lab File: VV023345.D

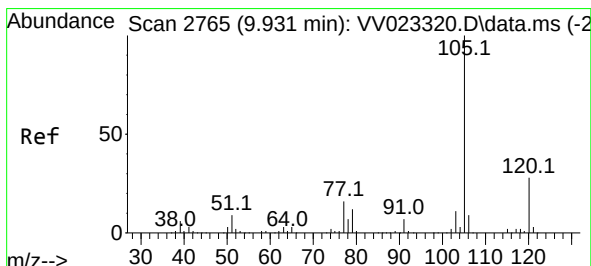
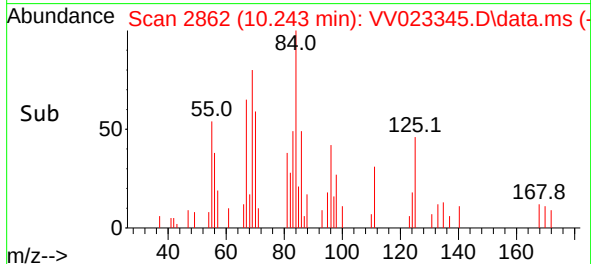
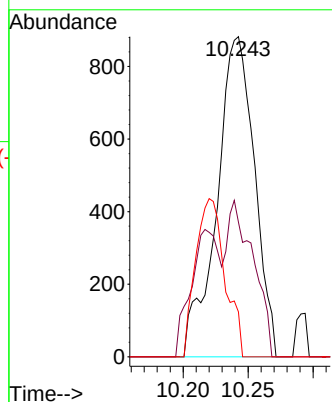
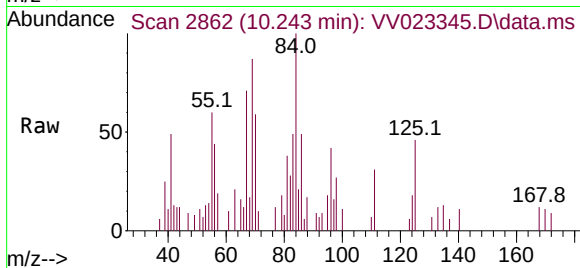
Acq: 10 Nov 2021 20:24

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:	83	Resp:	1776
Ion	Ratio	Lower	Upper
83	100		
85	42.1	45.1	83.9#
131	14.1	7.8	11.6#



#60

Isopropylbenzene

Concen: 0.981 ug/L

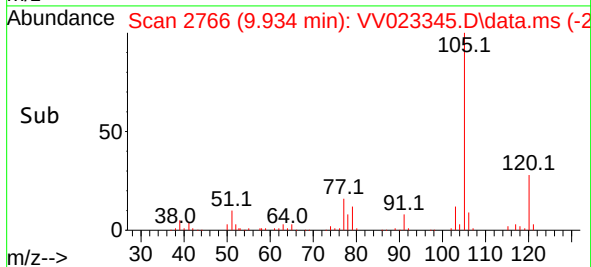
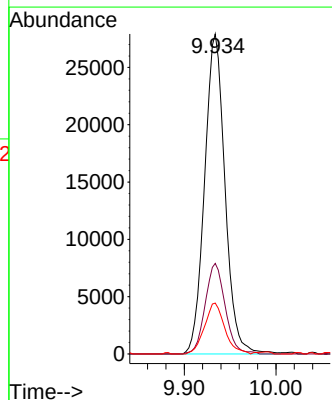
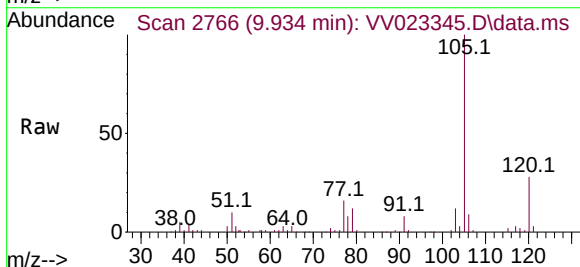
RT: 9.934 min Scan# 2766

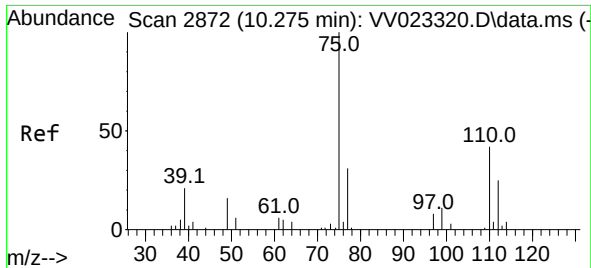
Delta R.T. 0.003 min

Lab File: VV023345.D

Acq: 10 Nov 2021 20:24

Tgt Ion:	105	Resp:	43171
Ion	Ratio	Lower	Upper
105	100		
120	27.7	21.7	32.5
77	15.8	12.6	19.0

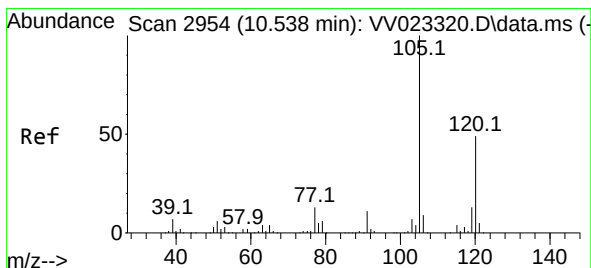
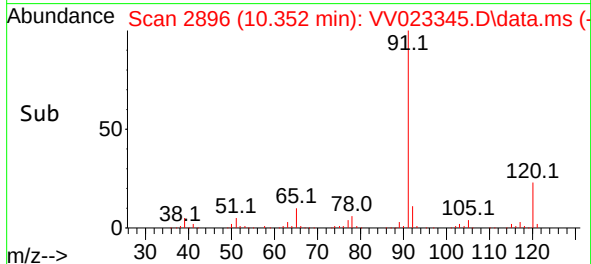
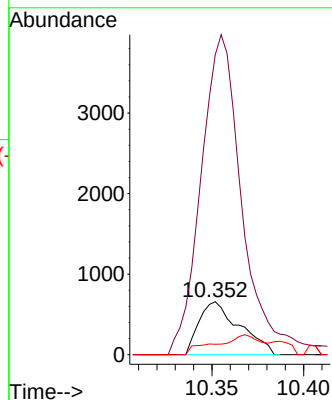
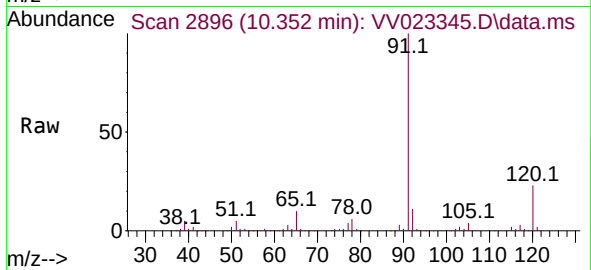




#61
1,2,3-Trichloropropane
Concen: 0.199 ug/L
RT: 10.352 min Scan# 21
Delta R.T. 0.077 min
Lab File: VV023345.D
Acq: 10 Nov 2021 20:24

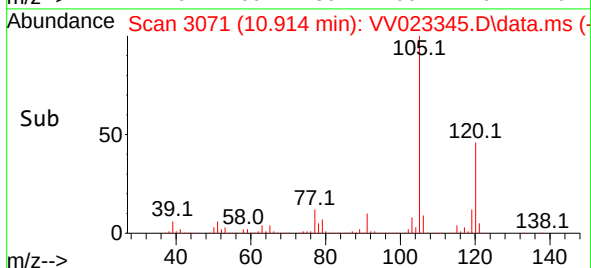
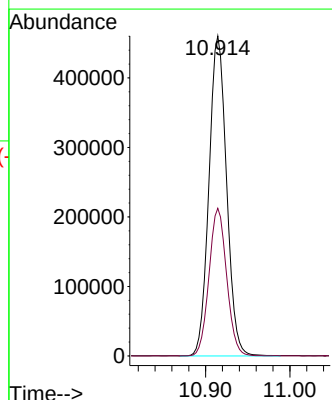
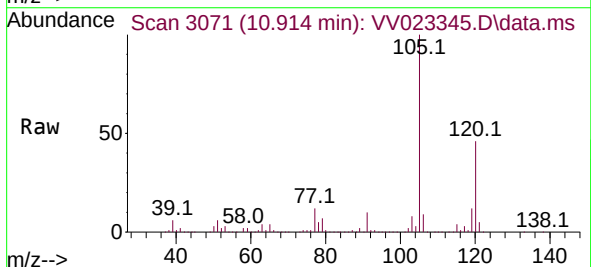
Instrument :
MSVOA_V
ClientSampleId :

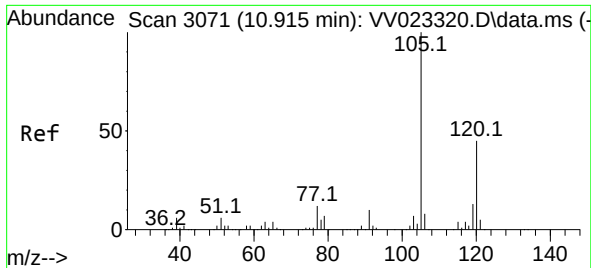
Tgt Ion: 75 Resp: 1015
Ion Ratio Lower Upper
75 100
77 615.0 26.6 39.8#
110 42.4 31.8 47.6



#62
1,3,5-Trimethylbenzene
Concen: 18.315 ug/L
RT: 10.914 min Scan# 3071
Delta R.T. 0.376 min
Lab File: VV023345.D
Acq: 10 Nov 2021 20:24

Tgt Ion: 105 Resp: 668014
Ion Ratio Lower Upper
105 100
120 46.2 39.7 59.5

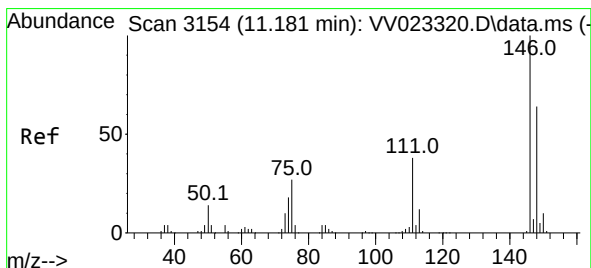
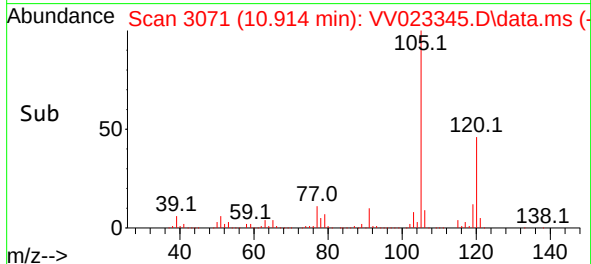
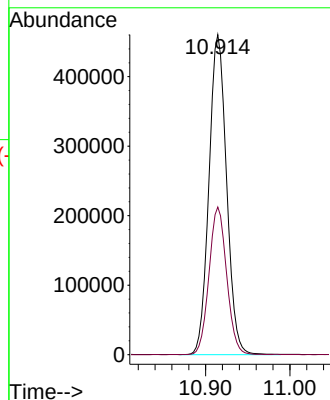
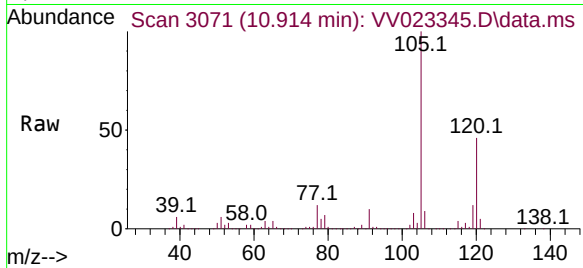




#63
1,2,4-Trimethylbenzene
Concen: 18.401 ug/L
RT: 10.914 min Scan# 3071
Delta R.T. -0.000 min
Lab File: VV023345.D
Acq: 10 Nov 2021 20:24

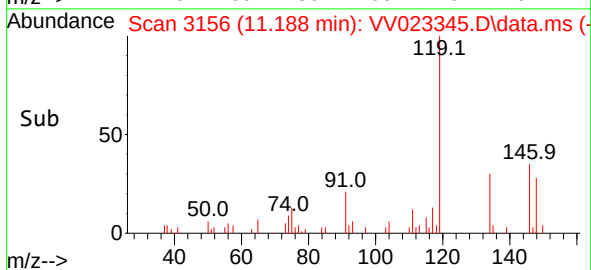
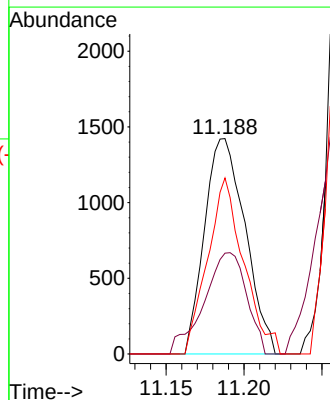
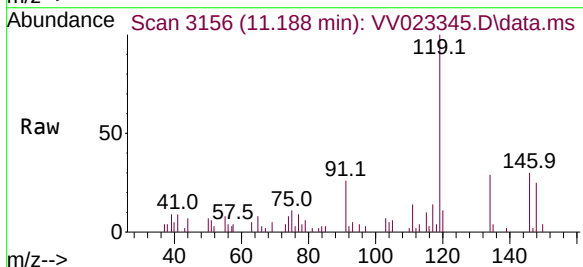
Instrument :
MSVOA_V
ClientSampleId :

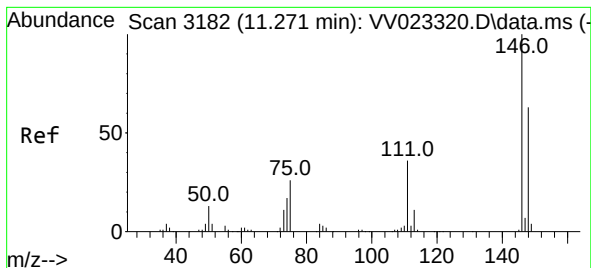
Tgt Ion:105 Resp: 668014
Ion Ratio Lower Upper
105 100
120 46.2 37.4 56.2



#64
1,3-Dichlorobenzene
Concen: 0.115 ug/L
RT: 11.188 min Scan# 3156
Delta R.T. 0.006 min
Lab File: VV023345.D
Acq: 10 Nov 2021 20:24

Tgt Ion:146 Resp: 2576
Ion Ratio Lower Upper
146 100
111 46.8 26.7 49.7
148 81.7 42.9 79.7#





#65

1,4-Dichlorobenzene

Concen: 0.867 ug/L

RT: 11.275 min Scan# 3182

Delta R.T. 0.003 min

Lab File: VV023345.D

Acq: 10 Nov 2021 20:24

Instrument :

MSVOA_V

ClientSampleId :

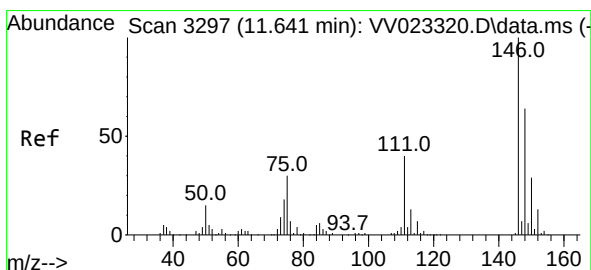
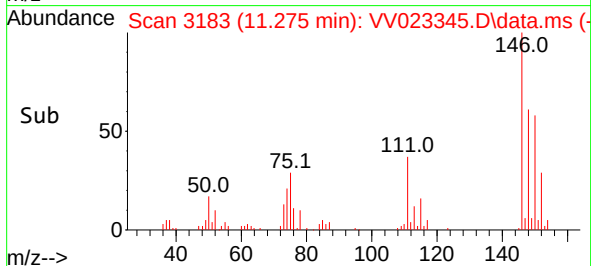
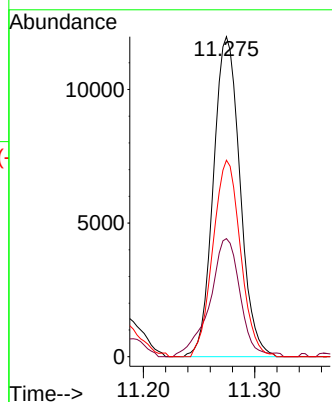
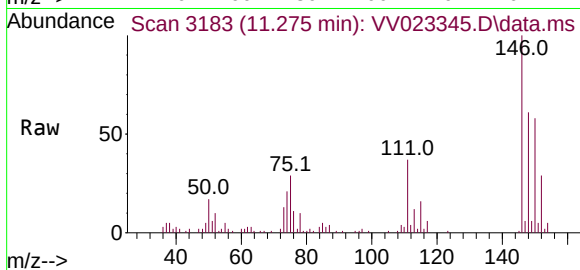
Tgt Ion:146 Resp: 19892

Ion Ratio Lower Upper

146 100

111 36.9 26.2 48.8

148 61.4 44.4 82.5



#67

1,2-Dichlorobenzene

Concen: 0.742 ug/L

RT: 11.644 min Scan# 3298

Delta R.T. 0.003 min

Lab File: VV023345.D

Acq: 10 Nov 2021 20:24

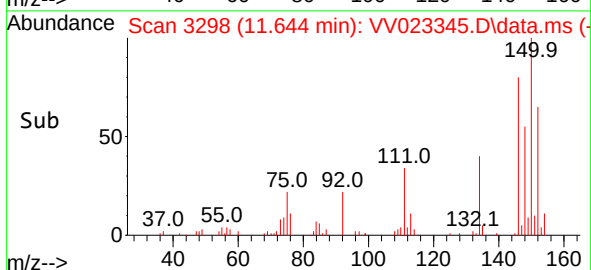
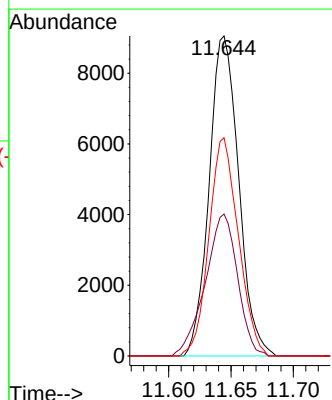
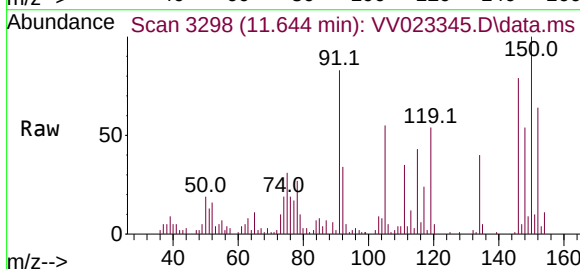
Tgt Ion:146 Resp: 14924

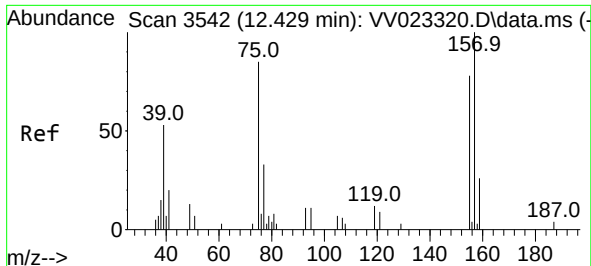
Ion Ratio Lower Upper

146 100

111 44.4 31.6 47.4

148 68.2 51.0 76.6





#68

1,2-Dibromo-3-chloropropane

Concen: 0.110 ug/L

RT: 12.413 min Scan# 3537

Delta R.T. -0.016 min

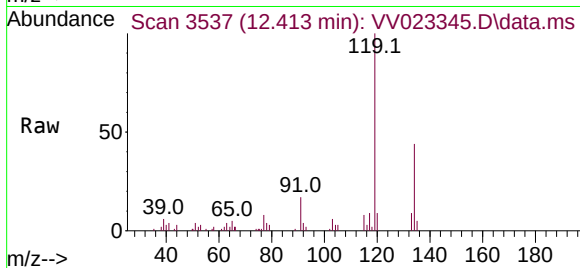
Lab File: VV023345.D

Acq: 10 Nov 2021 20:24

Instrument :

MSVOA_V

ClientSampleId :



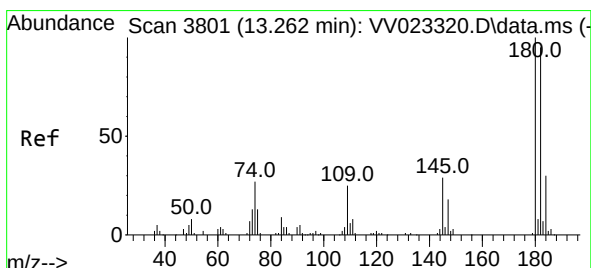
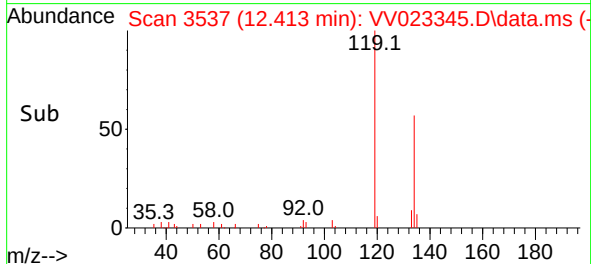
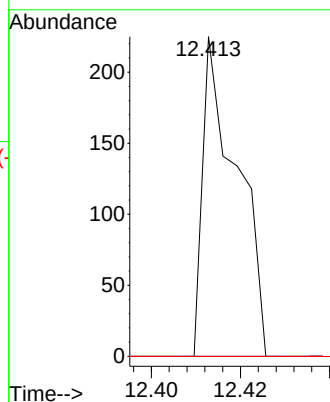
Tgt Ion: 75 Resp: 119

Ion Ratio Lower Upper

75 100

155 0.0 67.7 101.5#

157 0.0 87.9 131.9#



#70

1,2,4-trichlorobenzene

Concen: 0.057 ug/L

RT: 13.268 min Scan# 3803

Delta R.T. 0.006 min

Lab File: VV023345.D

Acq: 10 Nov 2021 20:24

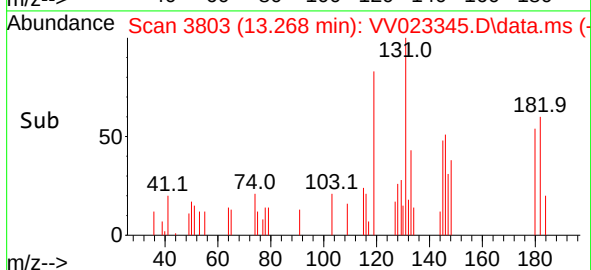
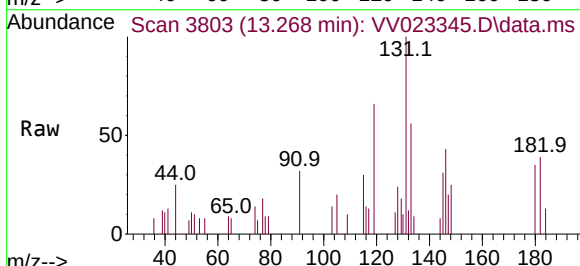
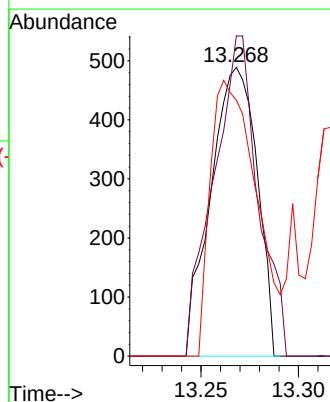
Tgt Ion:180 Resp: 807

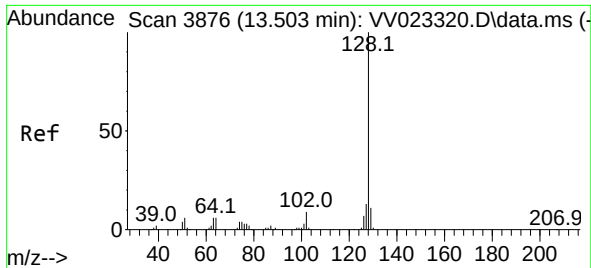
Ion Ratio Lower Upper

180 100

182 106.9 76.9 115.3

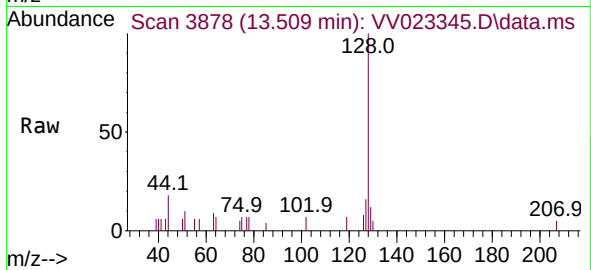
145 95.0 24.4 36.6#





#71
Naphthalene
Concen: 0.200 ug/L
RT: 13.509 min Scan# 3878
Delta R.T. 0.006 min
Lab File: VV023345.D
Acq: 10 Nov 2021 20:24

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion:128 Resp: 4147
Ion Ratio Lower Upper
128 100
129 14.5 8.6 13.0#
127 14.3 10.5 15.7

