

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW110921\
 Data File : VW023347.D
 Acq On : 10 Nov 2021 21:09
 Operator : SY/MD
 Sample : M4542-03
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 11 00:46:26 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	130697	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.853	117	128197	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.252	152	72194	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	34859	4.258	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	85.200%
7) Chloroethane-d5	1.564	69	27414	4.108	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	82.200%
11) 1,1-Dichloroethene-d2	2.108	63	49776	3.247	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	65.000%
20) 2-Butanone-d5	3.892	46	77931	55.247	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	110.500%
24) Chloroform-d	4.352	84	70666	4.050	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	81.000%
26) 1,2-Dichloroethane-d4	5.034	65	33514	4.271	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.400%
32) Benzene-d6	5.053	84	139931	4.254	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.000%
36) 1,2-Dichloropropane-d6	6.072	67	41967	4.334	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	86.600%
41) Toluene-d8	7.320	98	123907	4.020	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	80.400%
43) trans-1,3-Dichloroprop...	7.628	79	14594	3.975	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	79.400%
46) 2-Hexanone-d5	8.091	63	61699	45.674	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	91.340%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	29861	4.288	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	85.800%
66) 1,2-Dichlorobenzene-d4	11.625	152	52042	4.329	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	86.600%
Target Compounds						
					Qvalue	
3) Chloromethane	1.236	50	4538	0.419	ug/L	91
5) Vinyl chloride	1.307	62	4022	0.372	ug/L #	81
12) 1,1-Dichloroethene	2.114	96	1133	0.145	ug/L #	1
13) Acetone	2.178	43	5636	6.539	ug/L	94
19) 1,1-Dichloroethane	3.195	63	11941	0.738	ug/L	98
22) cis-1,2-Dichloroethene	3.915	96	23019	2.496	ug/L #	88
25) Chloroform	4.381	83	13256	0.769	ug/L	98
29) 1,1,1-Trichloroethane	4.612	97	18638	1.197	ug/L	98
31) Carbon tetrachloride	4.609	117	2357	0.169	ug/L	98
33) Benzene	5.108	78	4797	0.134	ug/L	100
34) Trichloroethene	5.918	95	78976	8.288	ug/L	99
35) Methylcyclohexane	6.137	83	2347	0.156	ug/L	91
37) 1,2-Dichloropropane	6.075	63	4541	0.543	ug/L #	83
39) cis-1,3-Dichloropropene	6.995	75	999	0.083	ug/L #	70
42) Toluene	7.391	91	159947	4.173	ug/L	99
47) Tetrachloroethene	7.979	164	2938	0.356	ug/L	90
49) Dibromochloromethane	7.979	129	3100	0.407	ug/L #	10
51) Chlorobenzene	8.882	112	141019	5.536	ug/L	99
52) Ethylbenzene	9.017	91	6650	0.165	ug/L	98

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

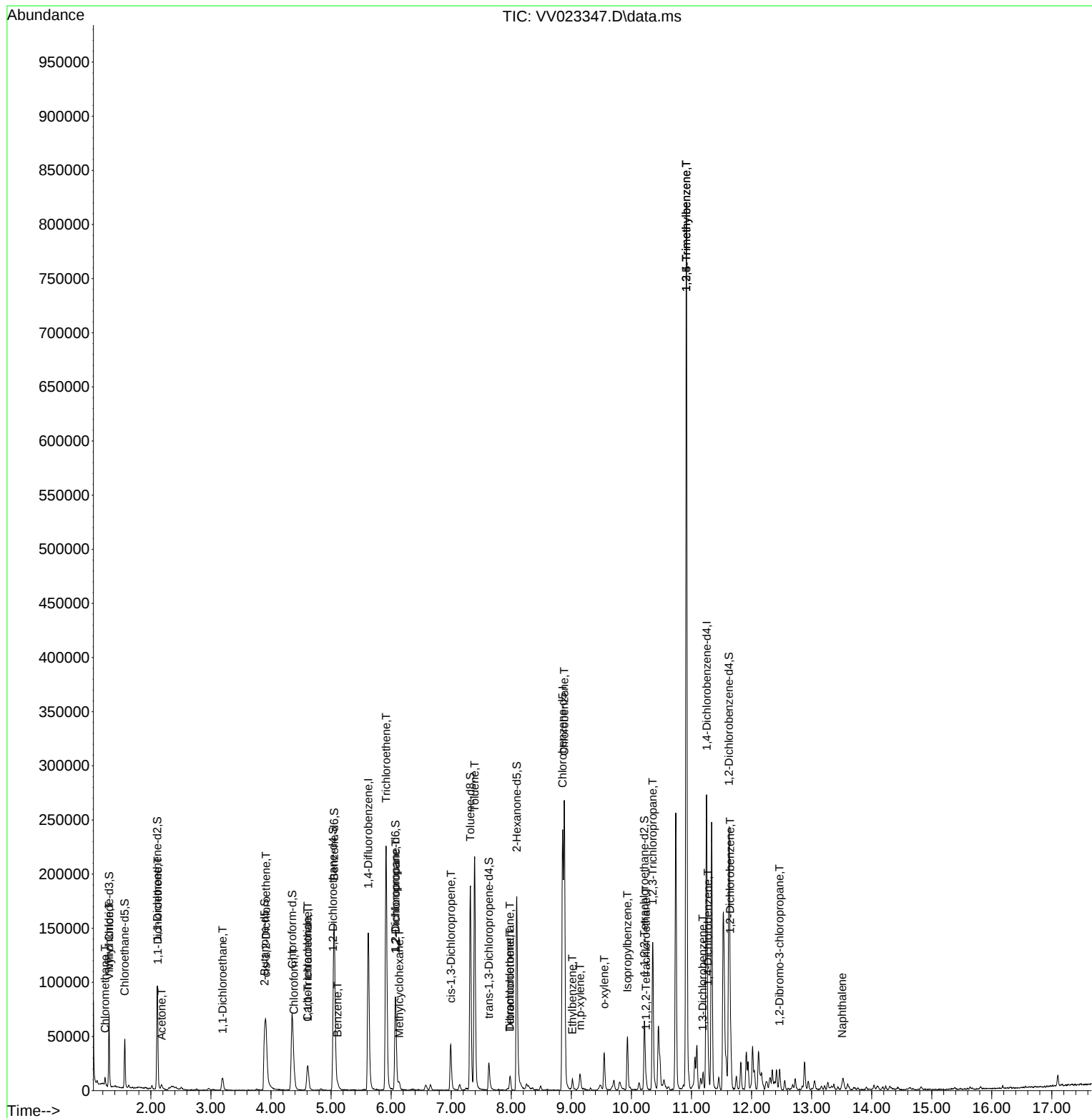
53) m,p-xylene	9.146	106	3963	0.250	ug/L	92
54) o-xylene	9.548	106	8979	0.603	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.242	83	1023	0.155	ug/L #	70
60) Isopropylbenzene	9.934	105	31348	0.757	ug/L	99
61) 1,2,3-Trichloropropane	10.352	75	750	0.156	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.914	105	427941	12.458	ug/L	95
63) 1,2,4-Trimethylbenzene	10.914	105	427941	12.517	ug/L	99
64) 1,3-Dichlorobenzene	11.188	146	2032	0.096	ug/L	97
65) 1,4-Dichlorobenzene	11.275	146	13633	0.631	ug/L	97
67) 1,2-Dichlorobenzene	11.644	146	10979	0.580	ug/L	95
68) 1,2-Dibromo-3-chloropr...	12.464	75	63	0.062	ug/L #	1
71) Naphthalene	13.509	128	4652	0.238	ug/L	97

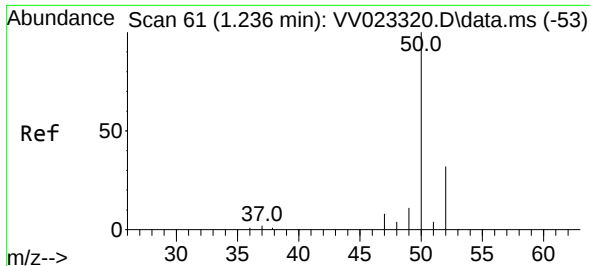
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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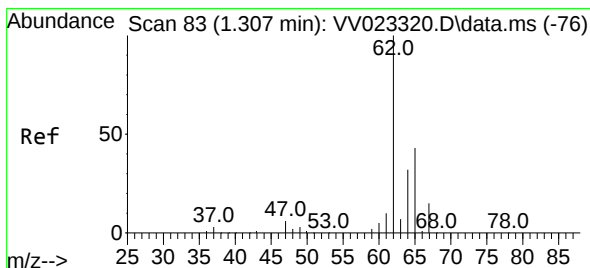
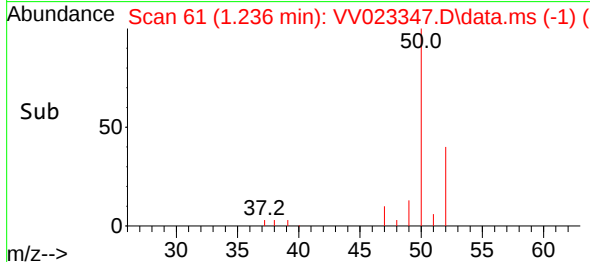
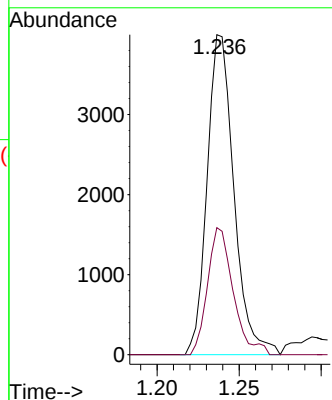
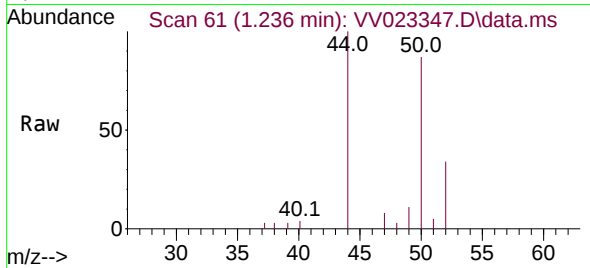




#3
Chloromethane
Concen: 0.419 ug/L
RT: 1.236 min Scan# 61
Delta R.T. -0.000 min
Lab File: VV023347.D
Acq: 10 Nov 2021 21:09

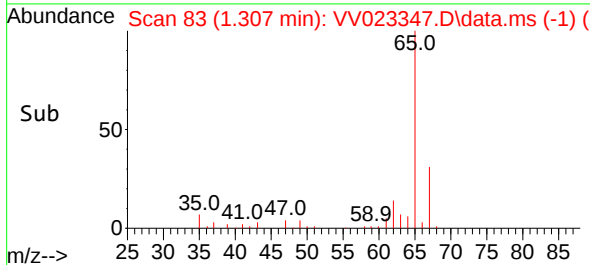
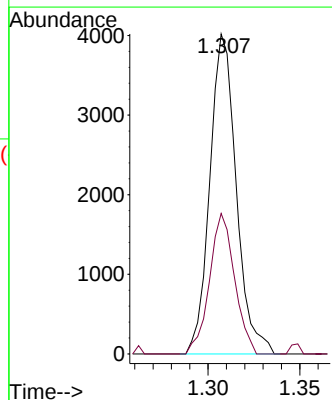
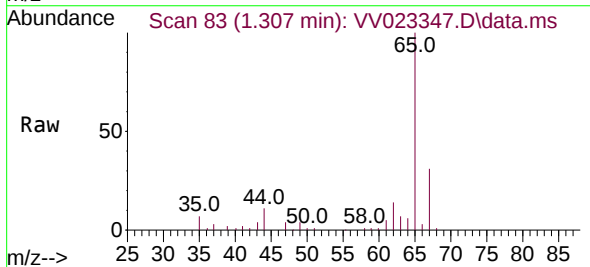
Instrument :
MSVOA_V
ClientSampleId :

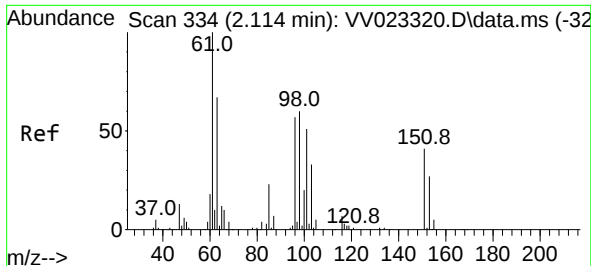
Tgt Ion: 50 Resp: 4538
Ion Ratio Lower Upper
50 100
52 39.7 24.3 45.1



#5
Vinyl chloride
Concen: 0.372 ug/L
RT: 1.307 min Scan# 83
Delta R.T. -0.000 min
Lab File: VV023347.D
Acq: 10 Nov 2021 21:09

Tgt Ion: 62 Resp: 4022
Ion Ratio Lower Upper
62 100
64 43.9 23.1 42.9#

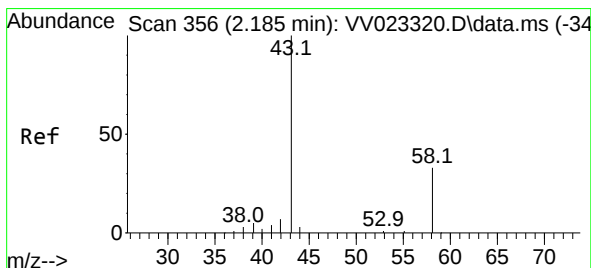
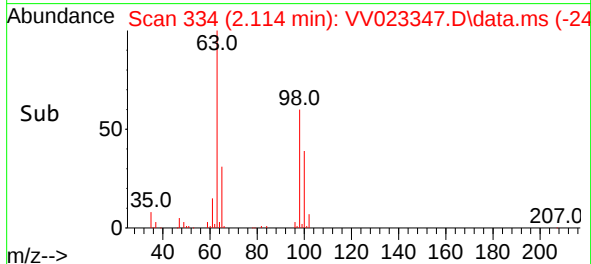
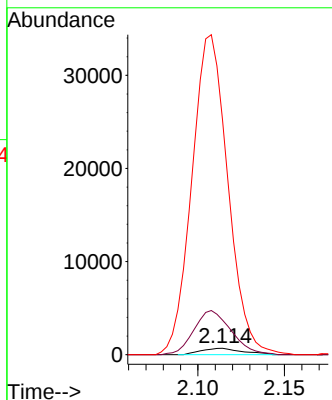
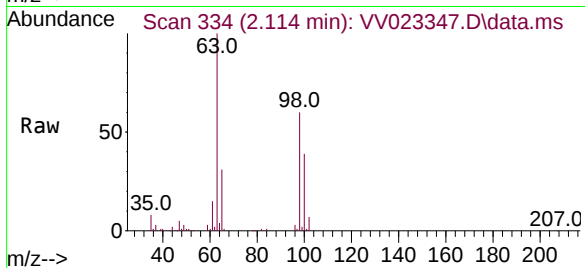




#12
 1,1-Dichloroethene
 Concen: 0.145 ug/L
 RT: 2.114 min Scan# 311
 Delta R.T. -0.000 min
 Lab File: VV023347.D
 Acq: 10 Nov 2021 21:09

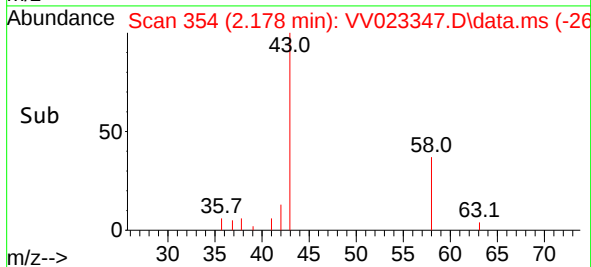
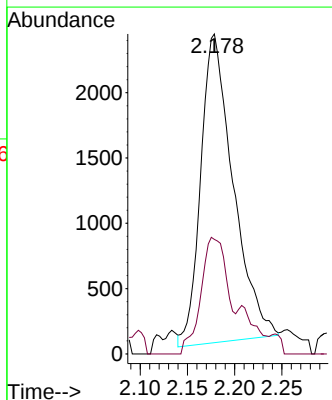
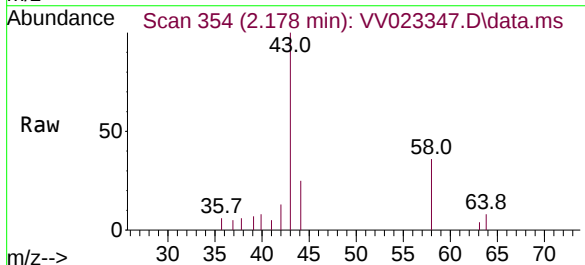
Instrument :
 MSVOA_V
 ClientSampleId :

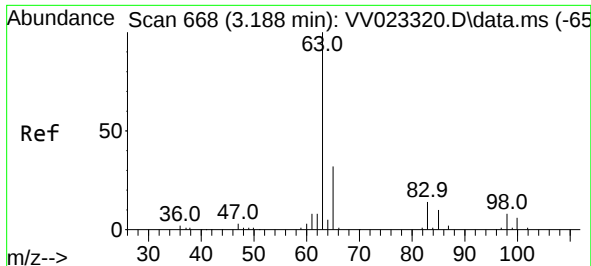
Tgt Ion: 96 Resp: 1133
 Ion Ratio Lower Upper
 96 100
 61 539.1 121.5 225.7#
 63 3667.4 99.6 185.0#



#13
 Acetone
 Concen: 6.539 ug/L
 RT: 2.178 min Scan# 354
 Delta R.T. -0.007 min
 Lab File: VV023347.D
 Acq: 10 Nov 2021 21:09

Tgt Ion: 43 Resp: 5636
 Ion Ratio Lower Upper
 43 100
 58 31.0 0.0 55.4





#19

1,1-Dichloroethane

Concen: 0.738 ug/L

RT: 3.195 min Scan# 61

Delta R.T. 0.006 min

Lab File: VV023347.D

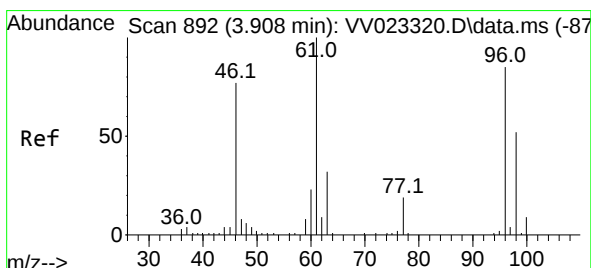
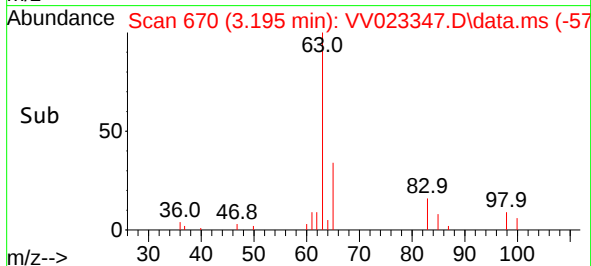
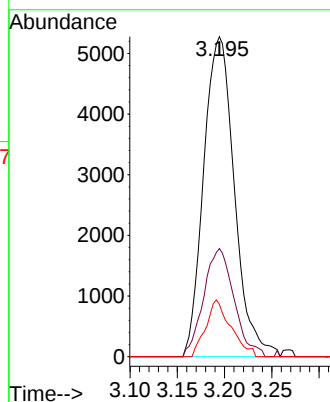
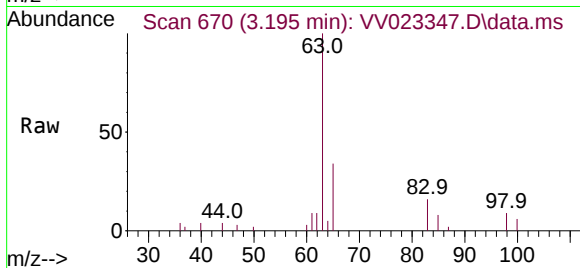
Acq: 10 Nov 2021 21:09

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 63	Resp: 11941
Ion Ratio	Lower Upper
63 100	
65 33.8	22.6 42.0
83 16.4	11.1 20.7



#22

cis-1,2-Dichloroethene

Concen: 2.496 ug/L

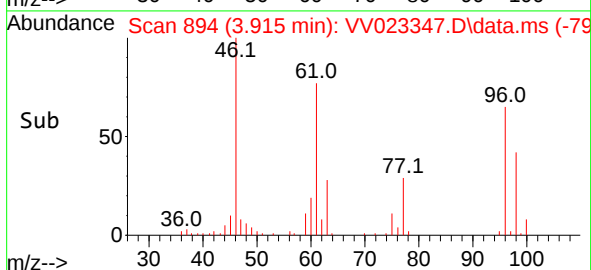
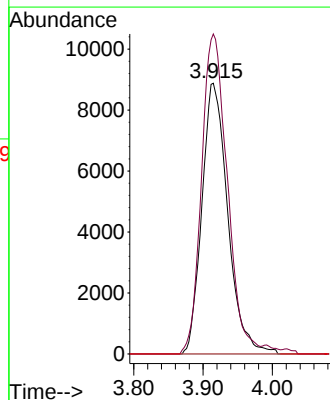
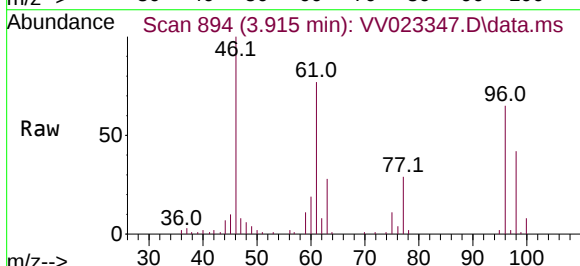
RT: 3.915 min Scan# 894

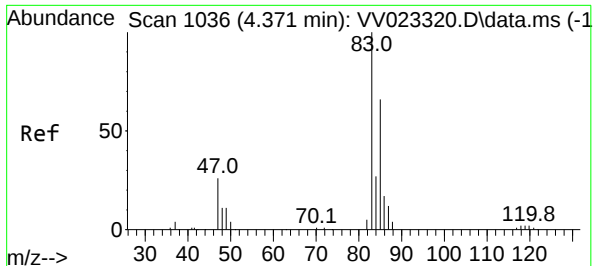
Delta R.T. 0.006 min

Lab File: VV023347.D

Acq: 10 Nov 2021 21:09

Tgt Ion: 96	Resp: 23019
Ion Ratio	Lower Upper
96 100	
61 118.2	92.3 171.3
68 0.0	0.4 0.8





#25

Chloroform

Concen: 0.769 ug/L

RT: 4.381 min Scan# 1109

Delta R.T. 0.010 min

Lab File: VV023347.D

Acq: 10 Nov 2021 21:09

Instrument :

MSVOA_V

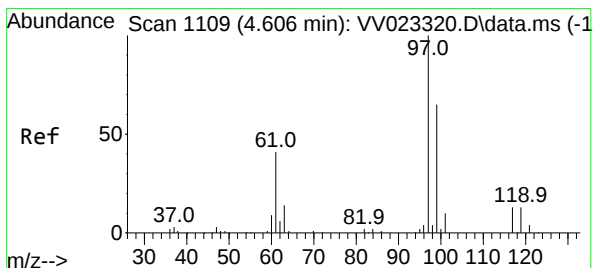
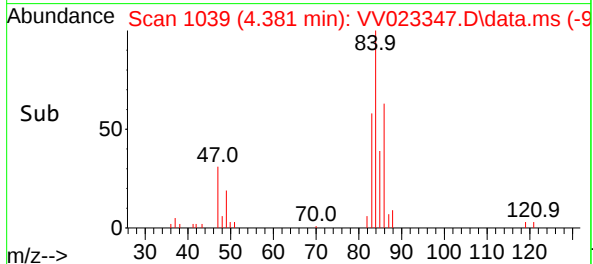
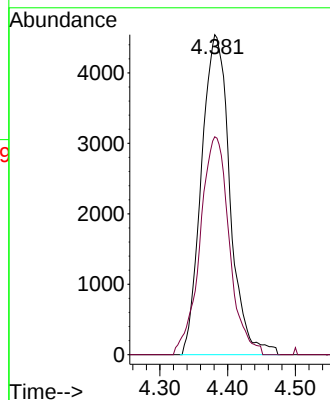
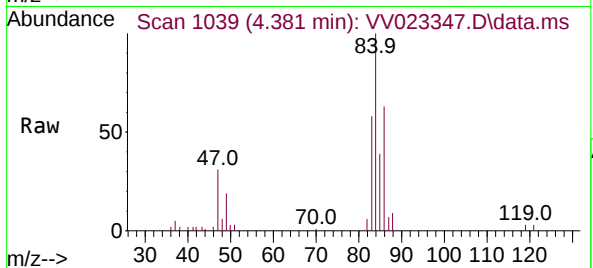
ClientSampleId :

Tgt Ion: 83 Resp: 13256

Ion Ratio Lower Upper

83 100

85 68.1 46.8 86.8



#29

1,1,1-Trichloroethane

Concen: 1.197 ug/L

RT: 4.612 min Scan# 1111

Delta R.T. 0.006 min

Lab File: VV023347.D

Acq: 10 Nov 2021 21:09

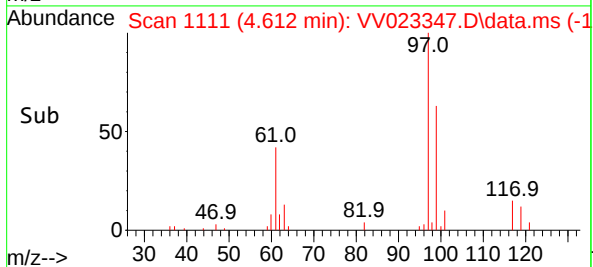
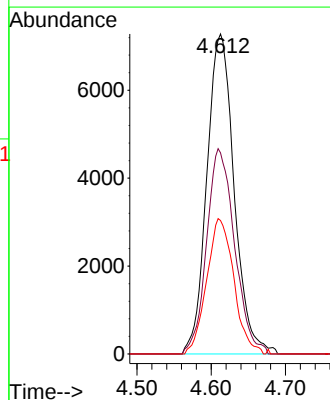
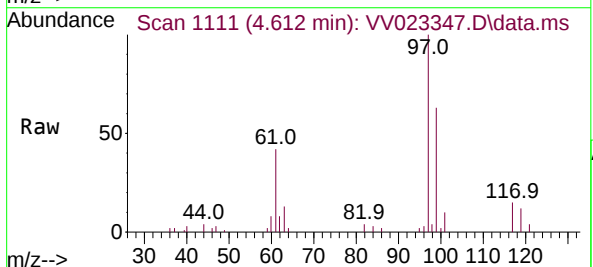
Tgt Ion: 97 Resp: 18638

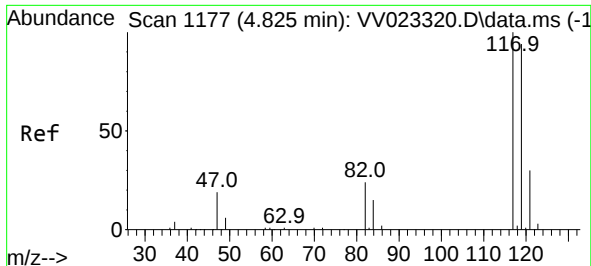
Ion Ratio Lower Upper

97 100

99 65.6 51.0 76.4

61 42.0 34.1 51.1

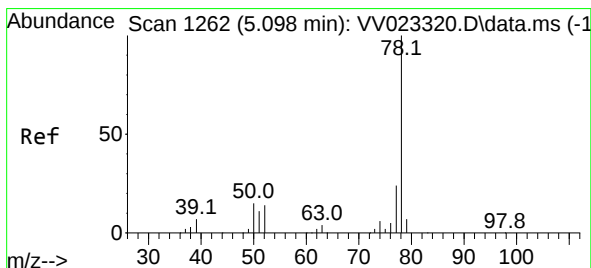
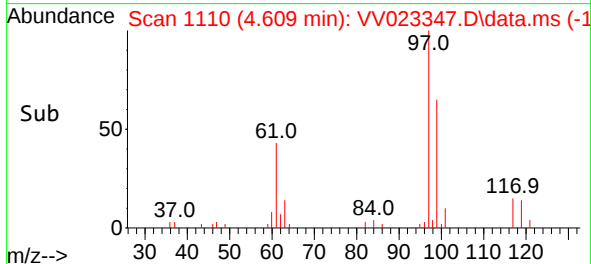
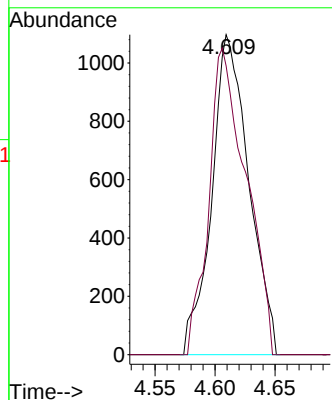
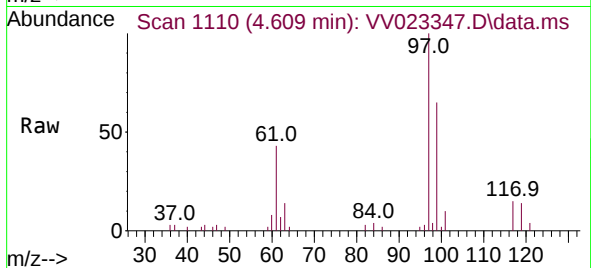




#31
Carbon tetrachloride
Concen: 0.169 ug/L
RT: 4.609 min Scan# 1177
Delta R.T. -0.216 min
Lab File: VV023347.D
Acq: 10 Nov 2021 21:09

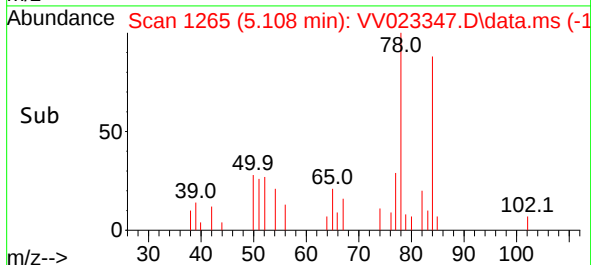
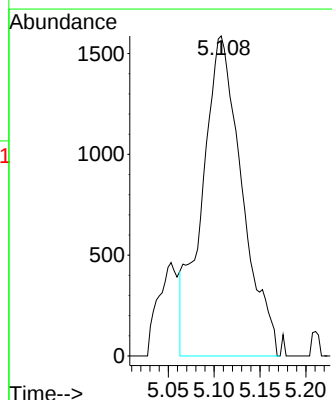
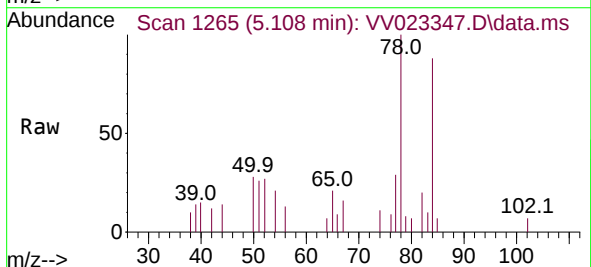
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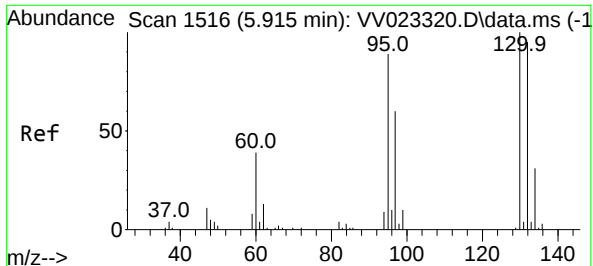
Tgt Ion:117 Resp: 2357
Ion Ratio Lower Upper
117 100
119 96.4 78.8 118.2



#33
Benzene
Concen: 0.134 ug/L
RT: 5.108 min Scan# 1265
Delta R.T. 0.010 min
Lab File: VV023347.D
Acq: 10 Nov 2021 21:09

Tgt Ion: 78 Resp: 4797

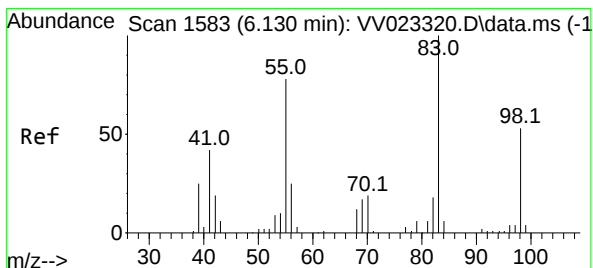
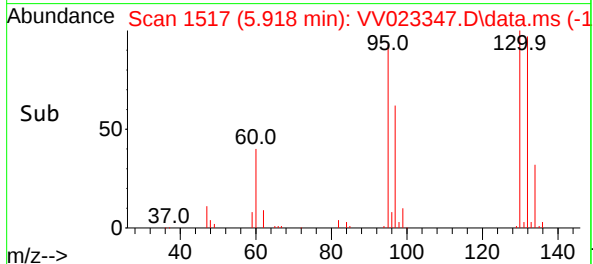
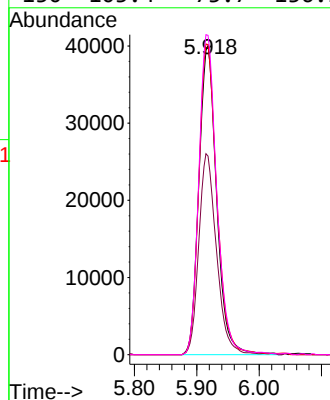
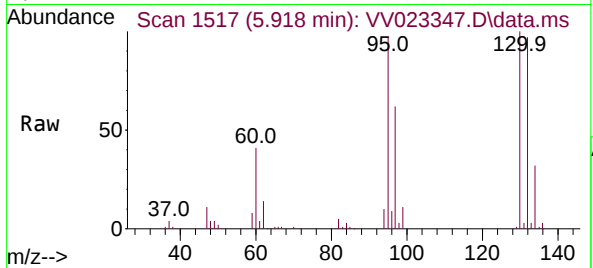




#34
Trichloroethene
Concen: 8.288 ug/L
RT: 5.918 min Scan# 1516
Delta R.T. 0.003 min
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Acq: 10 Nov 2021 21:09

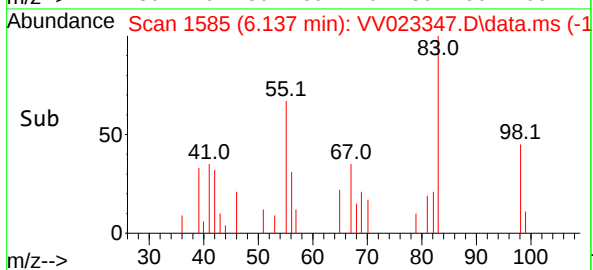
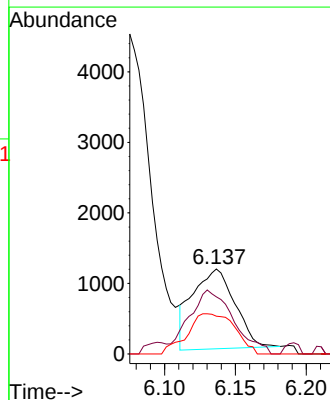
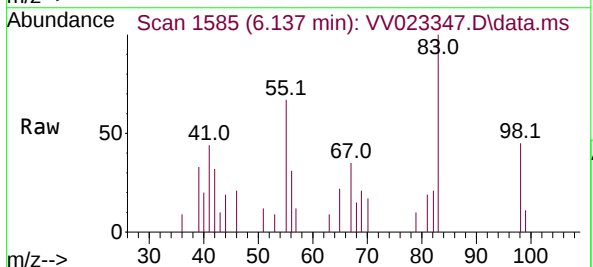
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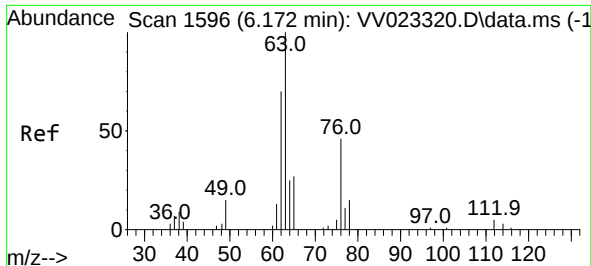
Tgt Ion: 95 Resp: 78976
Ion Ratio Lower Upper
95 100
97 64.3 45.0 83.6
132 100.4 69.7 129.4
130 103.4 73.7 136.9



#35
Methylcyclohexane
Concen: 0.156 ug/L
RT: 6.137 min Scan# 1585
Delta R.T. 0.006 min
Lab File: VV023347.D
Acq: 10 Nov 2021 21:09

Tgt Ion: 83 Resp: 2347
Ion Ratio Lower Upper
83 100
55 84.3 62.8 94.2
98 56.5 37.9 56.9





#37

1,2-Dichloropropane

Concen: 0.543 ug/L

RT: 6.075 min Scan# 11

Delta R.T. -0.097 min

Lab File: VV023347.D

Acq: 10 Nov 2021 21:09

Instrument :

MSVOA_V

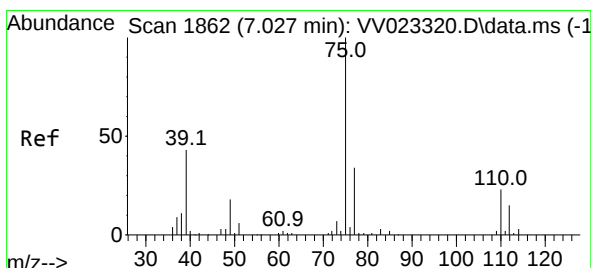
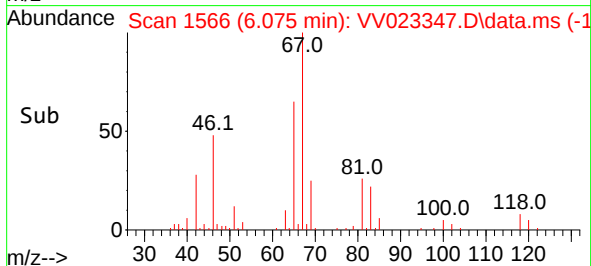
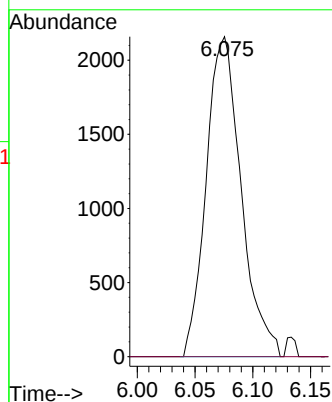
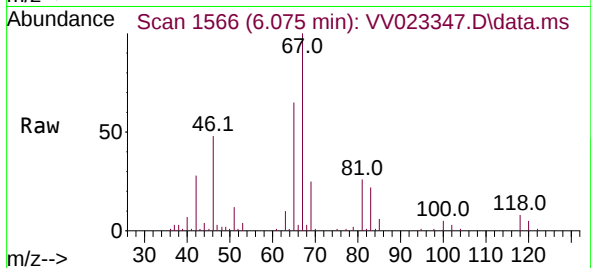
ClientSampleId :

Tgt Ion: 63 Resp: 4541

Ion Ratio Lower Upper

63 100

112 0.0 4.6 6.8#



#39

cis-1,3-Dichloropropene

Concen: 0.083 ug/L

RT: 6.995 min Scan# 1852

Delta R.T. -0.032 min

Lab File: VV023347.D

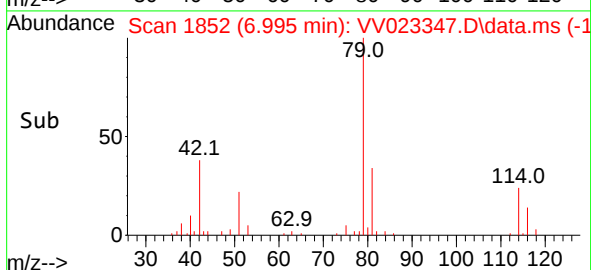
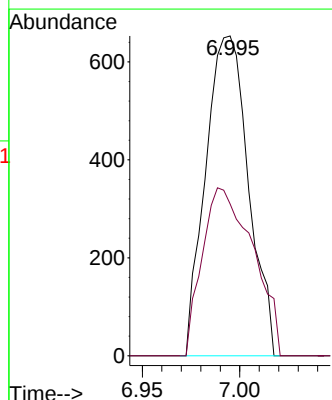
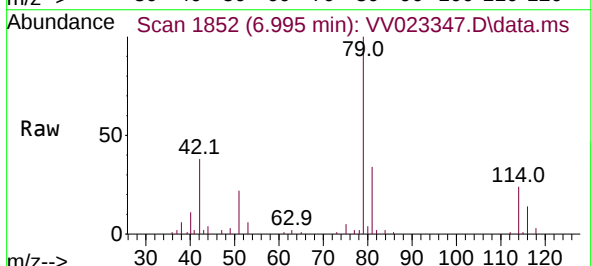
Acq: 10 Nov 2021 21:09

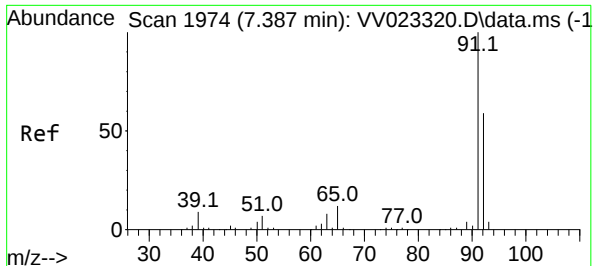
Tgt Ion: 75 Resp: 999

Ion Ratio Lower Upper

75 100

77 47.5 21.6 40.2#

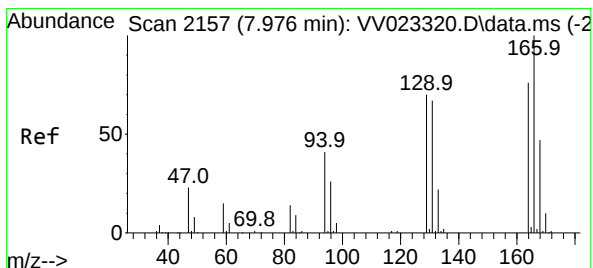
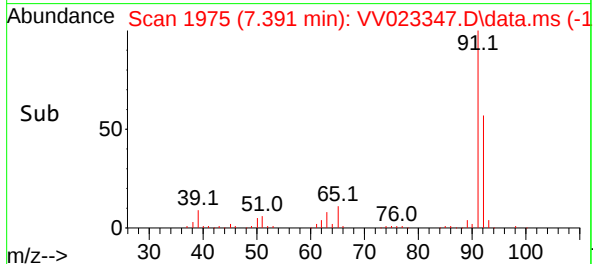
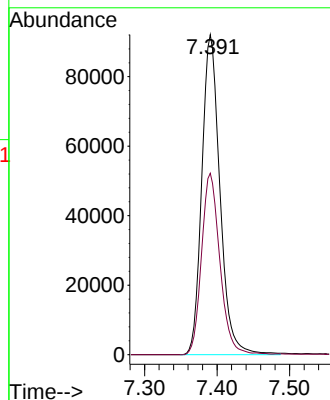
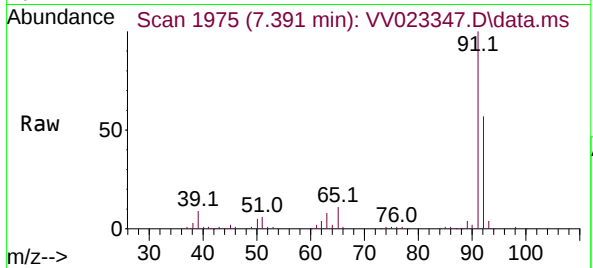




#42
Toluene
Concen: 4.173 ug/L
RT: 7.391 min Scan# 1975
Delta R.T. 0.003 min
Lab File: VV023347.D
Acq: 10 Nov 2021 21:09

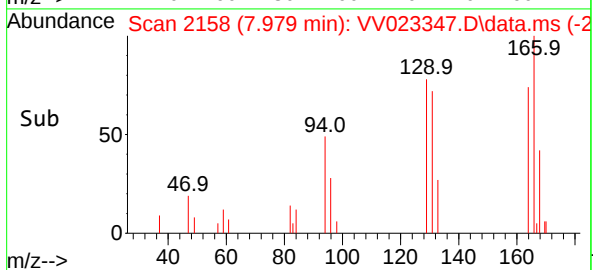
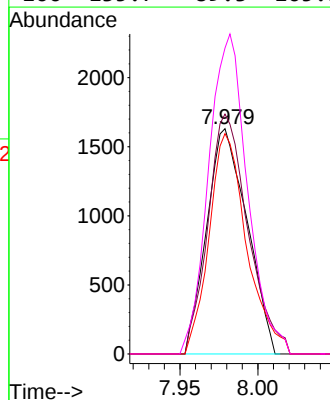
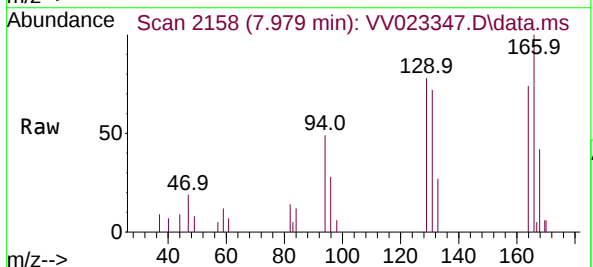
Instrument :
MSVOA_V
ClientSampleId :

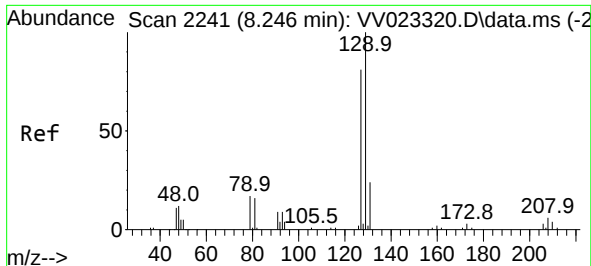
Tgt Ion: 91 Resp: 159947
Ion Ratio Lower Upper
91 100
92 56.7 39.3 72.9



#47
Tetrachloroethene
Concen: 0.356 ug/L
RT: 7.979 min Scan# 2158
Delta R.T. 0.003 min
Lab File: VV023347.D
Acq: 10 Nov 2021 21:09

Tgt Ion: 164 Resp: 2938
Ion Ratio Lower Upper
164 100
129 106.4 64.0 119.0
131 97.8 63.4 117.8
166 135.7 89.3 165.9





#49

Dibromochloromethane

Concen: 0.407 ug/L

RT: 7.979 min Scan# 2158

Delta R.T. -0.267 min

Lab File: VV023347.D

Acq: 10 Nov 2021 21:09

Instrument :

MSVOA_V

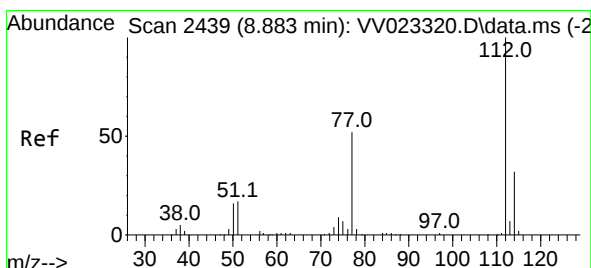
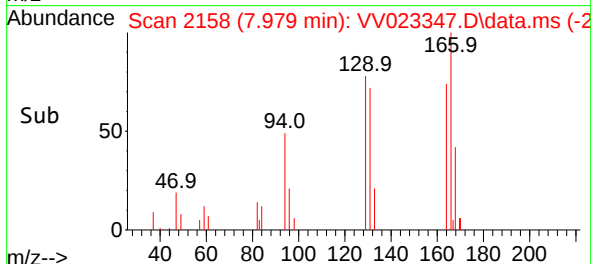
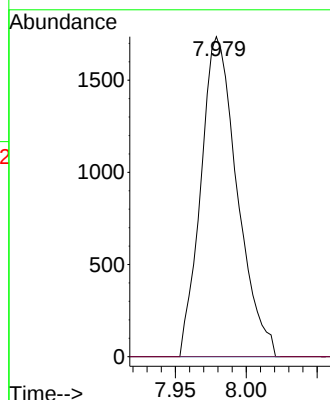
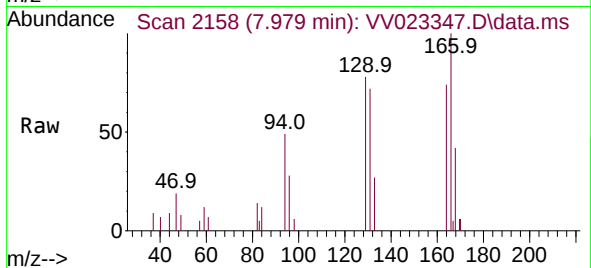
ClientSampleId :

Tgt Ion:129 Resp: 3100

Ion Ratio Lower Upper

129 100

127 0.0 54.7 101.7#



#51

Chlorobenzene

Concen: 5.536 ug/L

RT: 8.882 min Scan# 2439

Delta R.T. -0.000 min

Lab File: VV023347.D

Acq: 10 Nov 2021 21:09

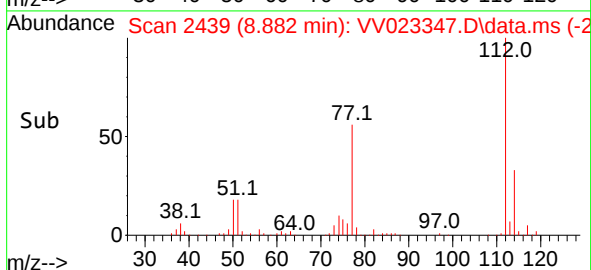
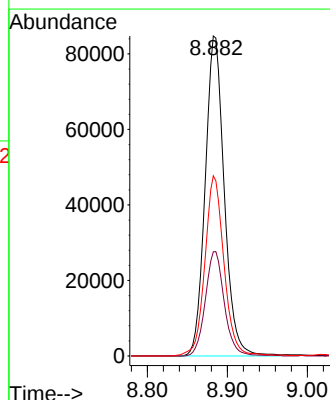
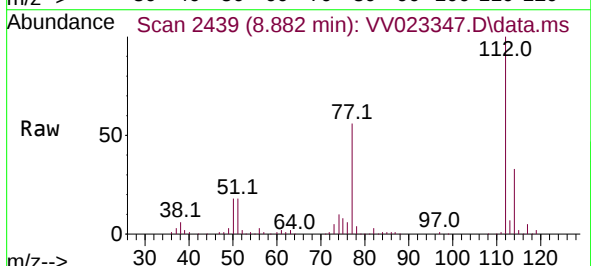
Tgt Ion:112 Resp: 141019

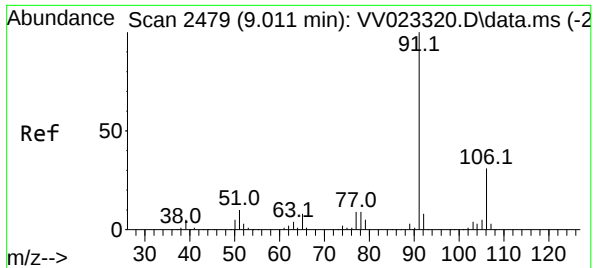
Ion Ratio Lower Upper

112 100

114 32.6 22.0 40.8

77 56.3 44.4 66.6





#52

Ethylbenzene

Concen: 0.165 ug/L

RT: 9.017 min Scan# 2479

Delta R.T. 0.006 min

Lab File: VV023347.D

Acq: 10 Nov 2021 21:09

Instrument :

MSVOA_V

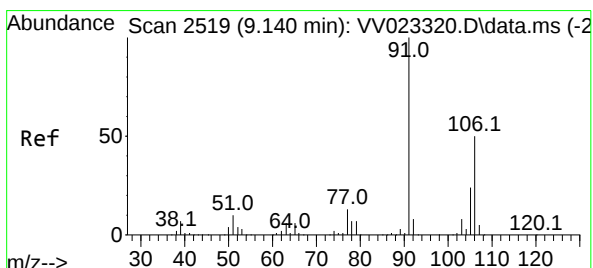
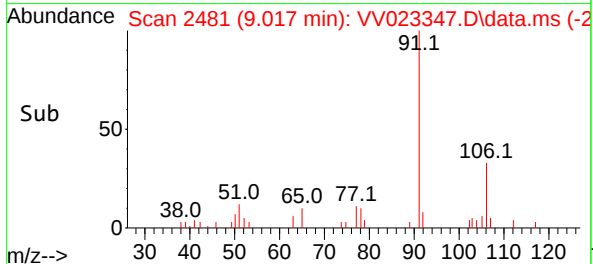
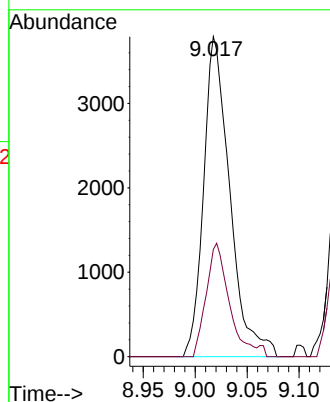
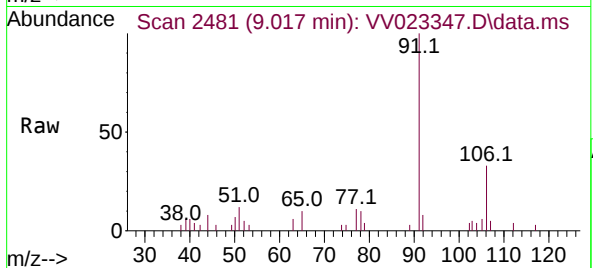
ClientSampleId :

Tgt Ion: 91 Resp: 6650

Ion Ratio Lower Upper

91 100

106 33.5 22.5 41.9



#53

m,p-xylene

Concen: 0.250 ug/L

RT: 9.146 min Scan# 2521

Delta R.T. 0.006 min

Lab File: VV023347.D

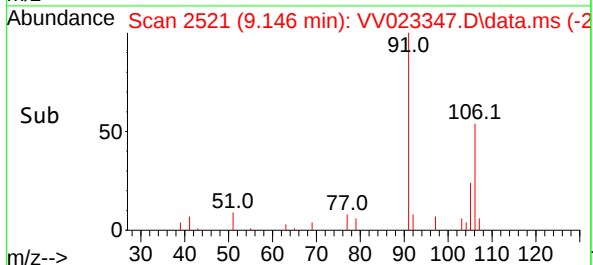
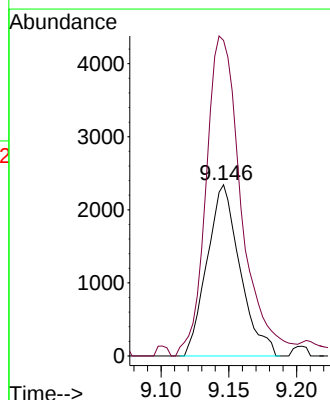
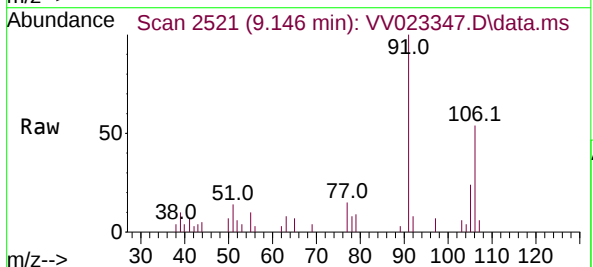
Acq: 10 Nov 2021 21:09

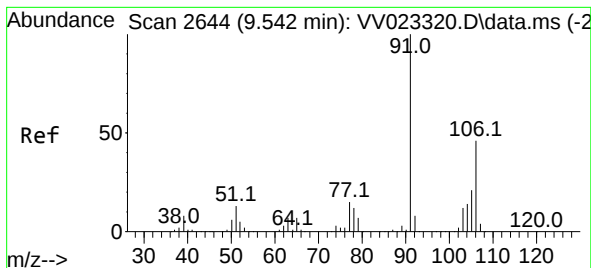
Tgt Ion: 106 Resp: 3963

Ion Ratio Lower Upper

106 100

91 184.3 137.2 254.8





#54

o-xylene

Concen: 0.603 ug/L

RT: 9.548 min Scan# 2

Delta R.T. 0.006 min

Lab File: VV023347.D

Acq: 10 Nov 2021 21:09

Instrument :

MSVOA_V

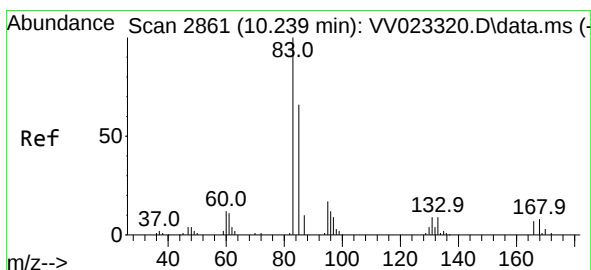
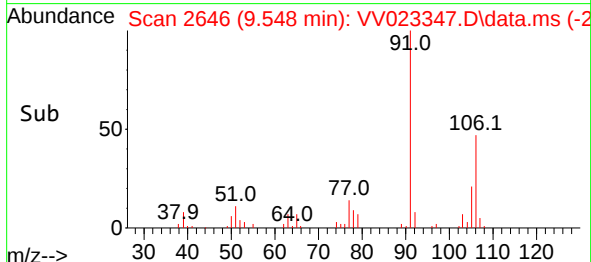
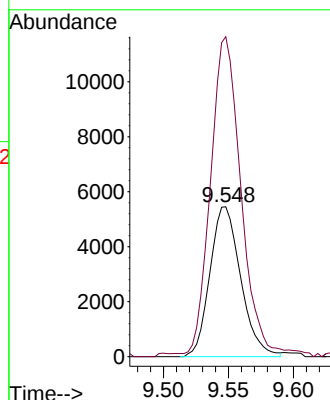
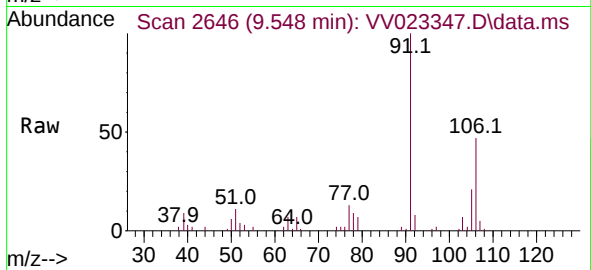
ClientSampleId :

Tgt Ion:106 Resp: 8979

Ion Ratio Lower Upper

106 100

91 213.4 148.3 275.5



#57

1,1,2,2-Tetrachloroethane

Concen: 0.155 ug/L

RT: 10.242 min Scan# 2862

Delta R.T. 0.003 min

Lab File: VV023347.D

Acq: 10 Nov 2021 21:09

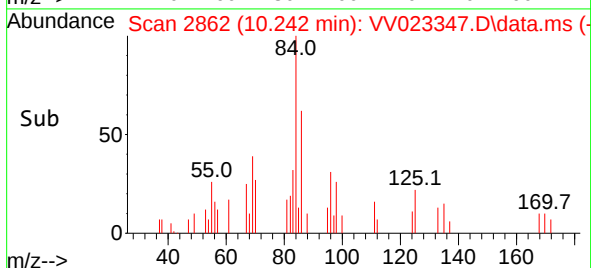
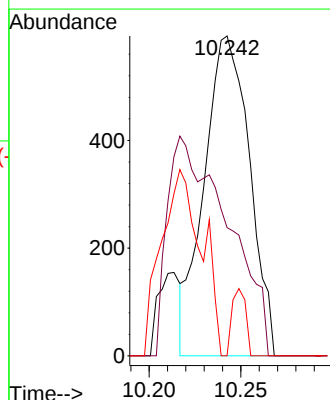
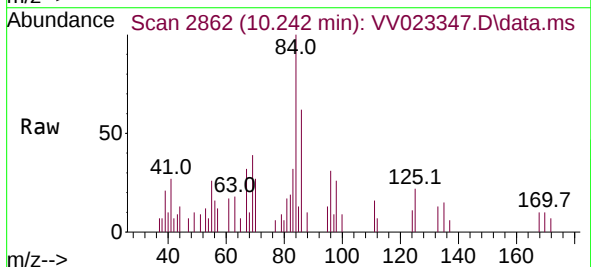
Tgt Ion: 83 Resp: 1023

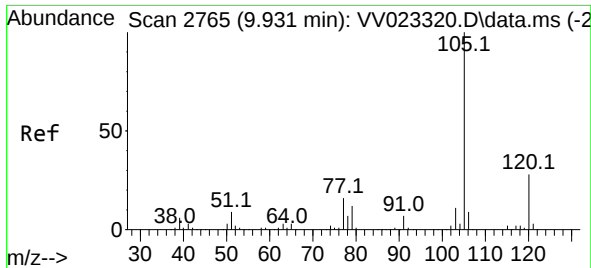
Ion Ratio Lower Upper

83 100

85 40.1 45.1 83.9#

131 0.0 7.8 11.6#

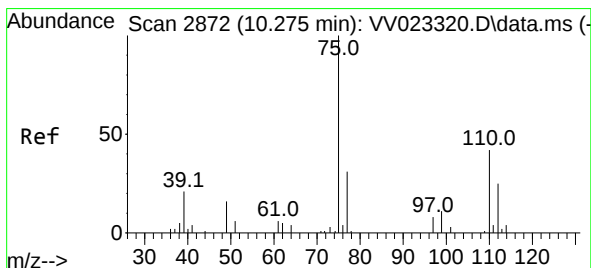
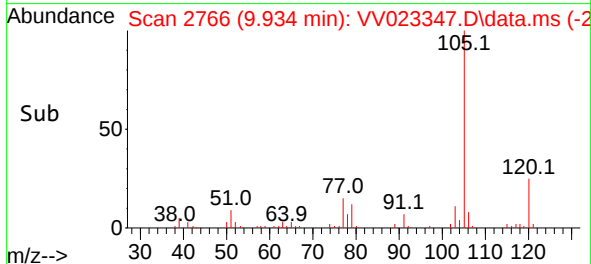
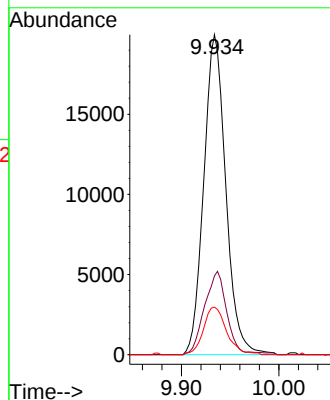
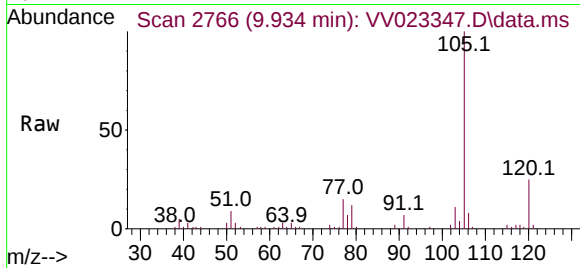




#60
Isopropylbenzene
Concen: 0.757 ug/L
RT: 9.934 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV023347.D
Acq: 10 Nov 2021 21:09

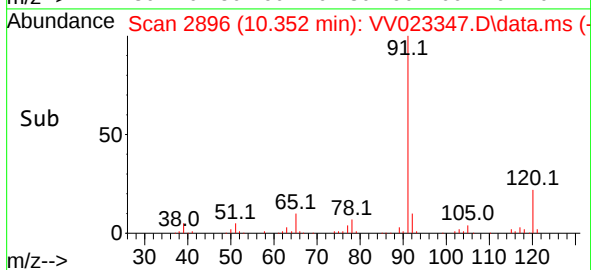
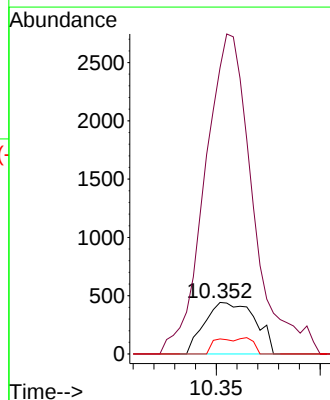
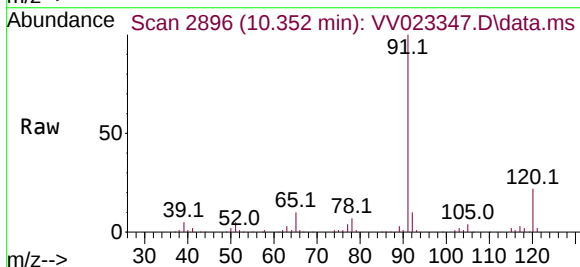
Instrument :
MSVOA_V
ClientSampleId :

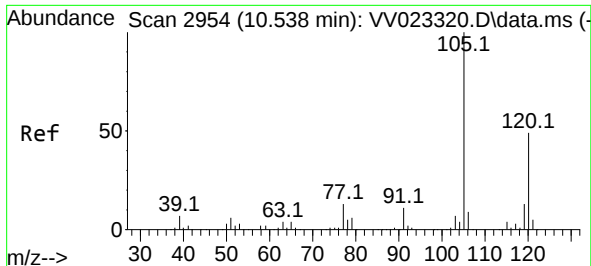
Tgt Ion:105 Resp: 31348
Ion Ratio Lower Upper
105 100
120 26.6 21.7 32.5
77 15.6 12.6 19.0



#61
1,2,3-Trichloropropane
Concen: 0.156 ug/L
RT: 10.352 min Scan# 2896
Delta R.T. 0.077 min
Lab File: VV023347.D
Acq: 10 Nov 2021 21:09

Tgt Ion: 75 Resp: 750
Ion Ratio Lower Upper
75 100
77 586.5 26.6 39.8#
110 12.4 31.8 47.6#





#62

1,3,5-Trimethylbenzene

Concen: 12.458 ug/L

RT: 10.914 min Scan# 3071

Delta R.T. 0.376 min

Lab File: VV023347.D

Acq: 10 Nov 2021 21:09

Instrument :

MSVOA_V

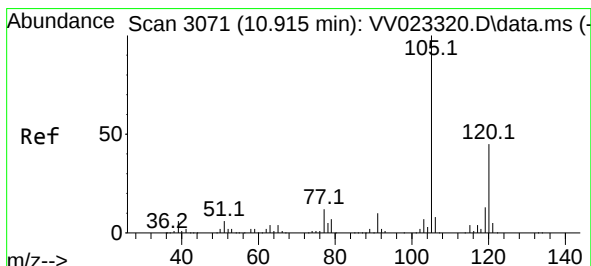
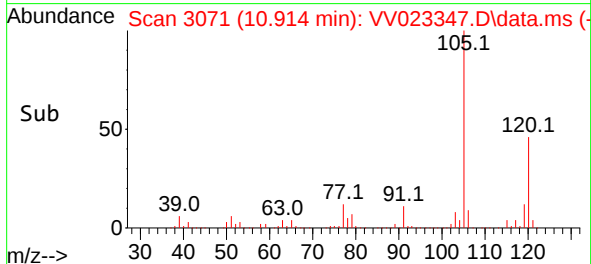
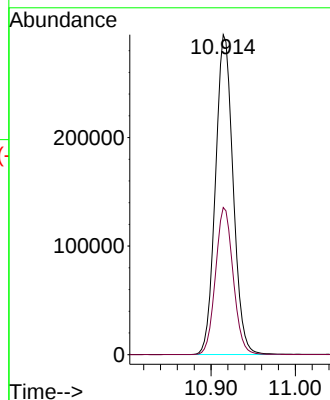
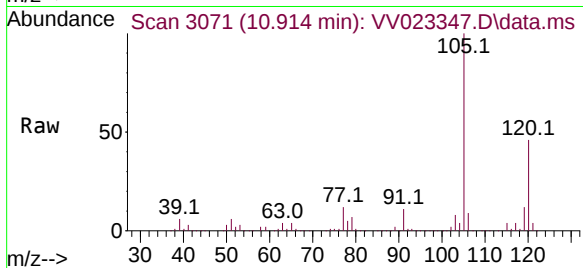
ClientSampleId :

Tgt Ion:105 Resp: 427941

Ion Ratio Lower Upper

105 100

120 45.9 39.7 59.5



#63

1,2,4-Trimethylbenzene

Concen: 12.517 ug/L

RT: 10.914 min Scan# 3071

Delta R.T. -0.000 min

Lab File: VV023347.D

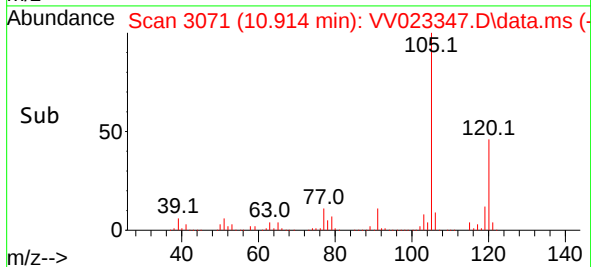
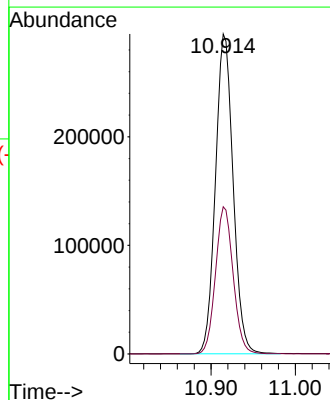
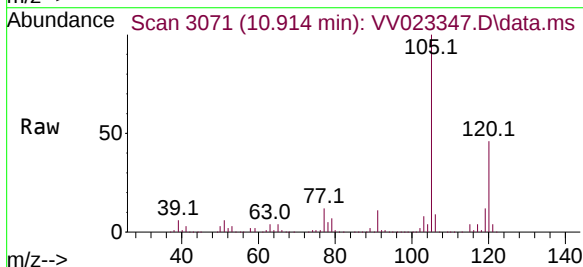
Acq: 10 Nov 2021 21:09

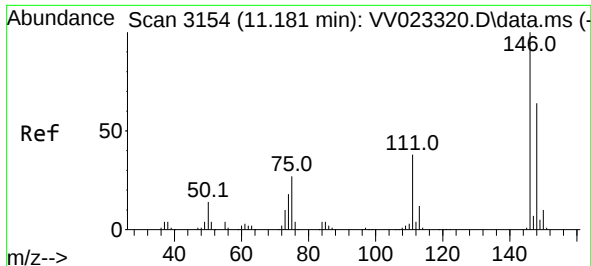
Tgt Ion:105 Resp: 427941

Ion Ratio Lower Upper

105 100

120 45.9 37.4 56.2

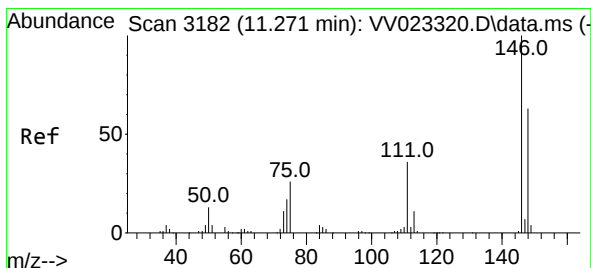
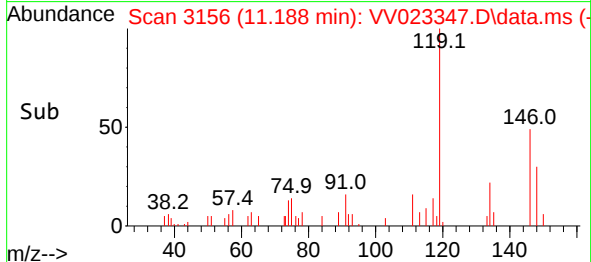
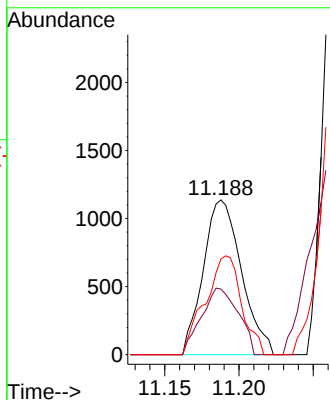
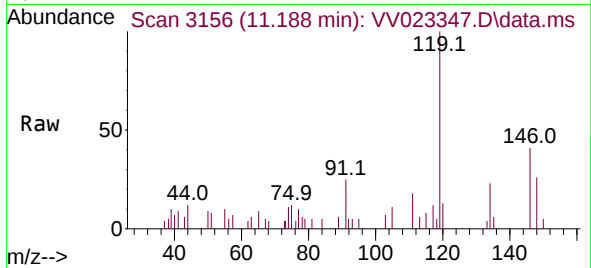




#64
1,3-Dichlorobenzene
Concen: 0.096 ug/L
RT: 11.188 min Scan# 3154
Delta R.T. 0.006 min
Lab File: VV023347.D
Acq: 10 Nov 2021 21:09

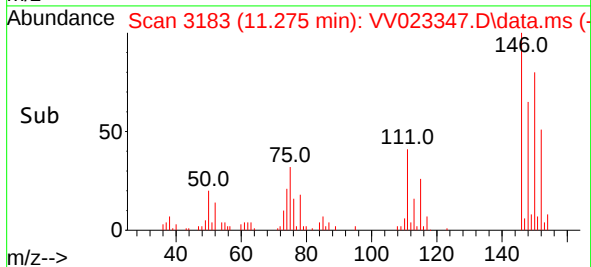
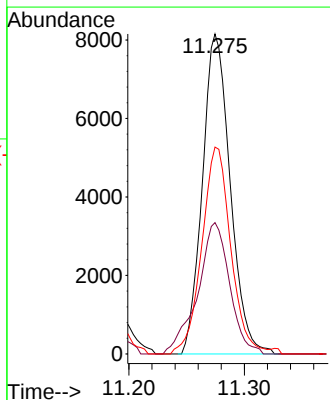
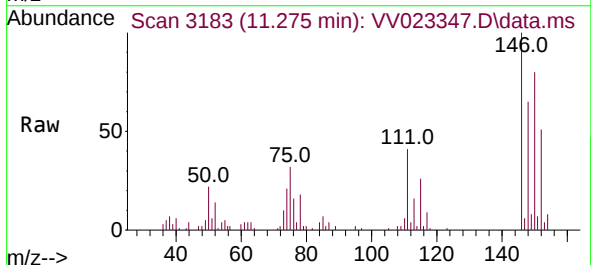
Instrument :
MSVOA_V
ClientSampleId :

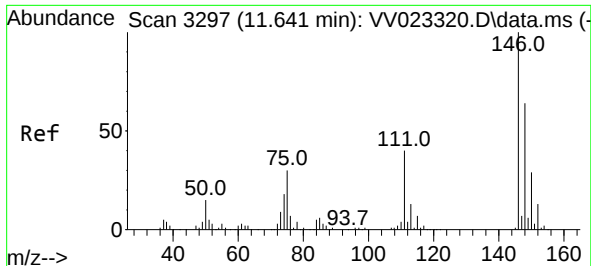
Tgt Ion:146 Resp: 2032
Ion Ratio Lower Upper
146 100
111 42.4 26.7 49.7
148 61.9 42.9 79.7



#65
1,4-Dichlorobenzene
Concen: 0.631 ug/L
RT: 11.275 min Scan# 3183
Delta R.T. 0.003 min
Lab File: VV023347.D
Acq: 10 Nov 2021 21:09

Tgt Ion:146 Resp: 13633
Ion Ratio Lower Upper
146 100
111 41.0 26.2 48.8
148 64.7 44.4 82.5





#67

1,2-Dichlorobenzene

Concen: 0.580 ug/L

RT: 11.644 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV023347.D

Acq: 10 Nov 2021 21:09

Instrument :

MSVOA_V

ClientSampleId :

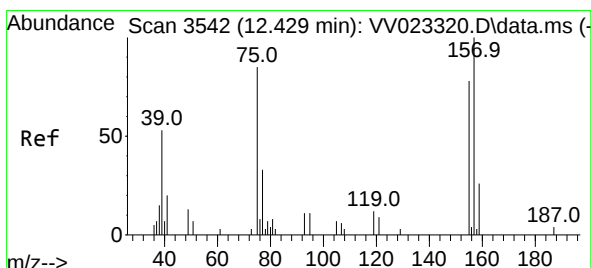
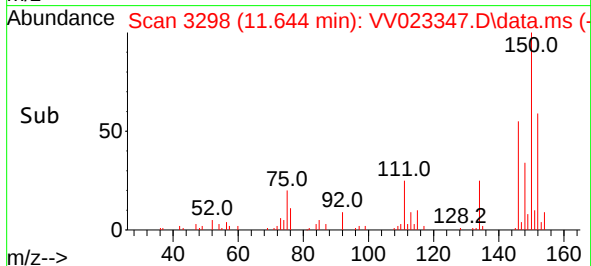
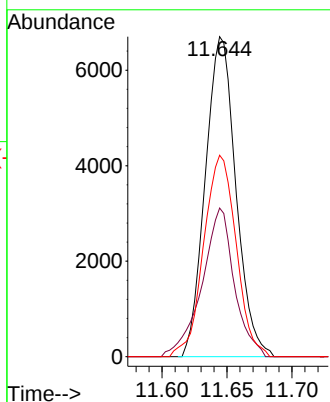
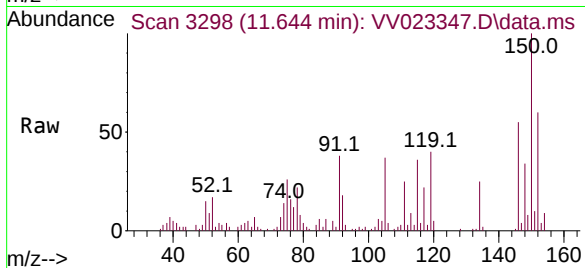
Tgt Ion:146 Resp: 10979

Ion Ratio Lower Upper

146 100

111 46.4 31.6 47.4

148 62.9 51.0 76.6



#68

1,2-Dibromo-3-chloropropane

Concen: 0.062 ug/L

RT: 12.464 min Scan# 3553

Delta R.T. 0.035 min

Lab File: VV023347.D

Acq: 10 Nov 2021 21:09

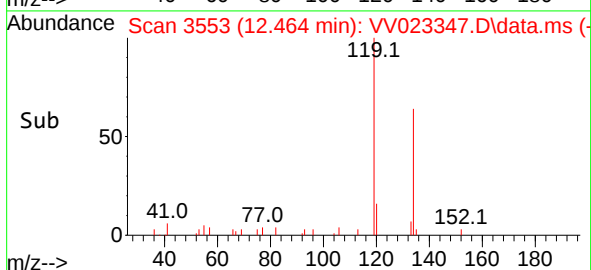
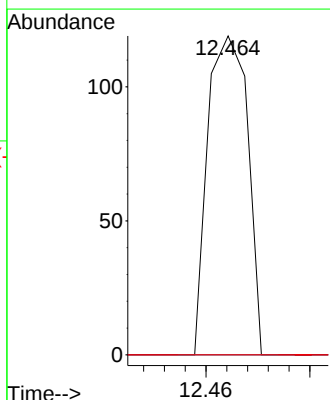
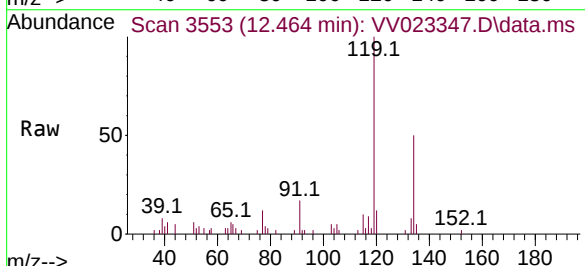
Tgt Ion: 75 Resp: 63

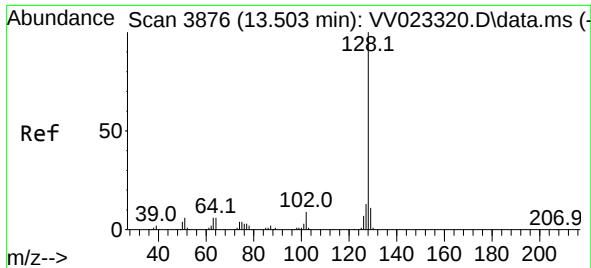
Ion Ratio Lower Upper

75 100

155 0.0 67.7 101.5#

157 0.0 87.9 131.9#





#71

Naphthalene

Concen: 0.238 ug/L

RT: 13.509 min Scan# 3876

Delta R.T. 0.006 min

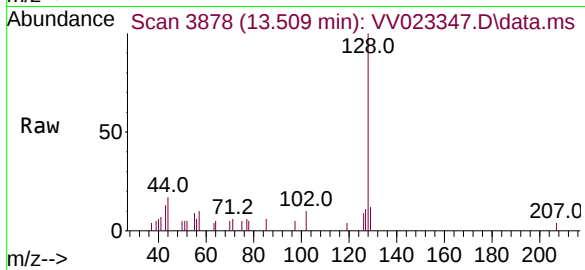
Lab File: VV023347.D

Acq: 10 Nov 2021 21:09

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:128 Resp: 4652

Ion Ratio Lower Upper

128 100

129 12.7 8.6 13.0

127 13.7 10.5 15.7

