

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW111021\
 Data File : VW023365.D
 Acq On : 11 Nov 2021 04:54
 Operator : SY/MD
 Sample : M4542-08
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 11 05:20:32 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR110421WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Nov 11 03:34:54 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.619	114	137367	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.853	117	135175	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	74877	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.307	65	24990	2.904	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	58.000%
7) Chloroethane-d5	1.568	69	25201	3.593	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	71.800%
11) 1,1-Dichloroethene-d2	2.111	63	39935	2.479	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	49.600%#
20) 2-Butanone-d5	3.883	46	94390	63.666	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	127.340%
24) Chloroform-d	4.352	84	75844	4.136	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.800%
26) 1,2-Dichloroethane-d4	5.037	65	37279	4.520	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.400%
32) Benzene-d6	5.053	84	137239	3.957	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	79.200%
36) 1,2-Dichloropropane-d6	6.072	67	45363	4.443	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	88.800%
41) Toluene-d8	7.317	98	116191	3.575	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	71.400%
43) trans-1,3-Dichloroprop...	7.625	79	14877	3.843	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	76.800%
46) 2-Hexanone-d5	8.088	63	72192	50.683	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	101.360%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	34744	4.732	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	94.600%
66) 1,2-Dichlorobenzene-d4	11.625	152	56756	4.552	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	91.000%
Target Compounds						
					Qvalue	
3) Chloromethane	1.243	50	2654	0.233	ug/L	90
5) Vinyl chloride	1.310	62	8360	0.735	ug/L	99
12) 1,1-Dichloroethene	2.124	96	2050	0.250	ug/L #	1
13) Acetone	2.178	43	3608	3.983	ug/L	90
19) 1,1-Dichloroethane	3.195	63	25200	1.482	ug/L	100
22) cis-1,2-Dichloroethene	3.915	96	35112	3.623	ug/L #	89
25) Chloroform	4.381	83	16475	0.909	ug/L	95
29) 1,1,1-Trichloroethane	4.612	97	41118	2.505	ug/L	99
34) Trichloroethene	5.915	95	131842	13.122	ug/L	98
35) Methylcyclohexane	6.133	83	3467	0.219	ug/L	94
37) 1,2-Dichloropropane	6.069	63	5270	0.597	ug/L #	83
39) cis-1,3-Dichloropropene	6.992	75	1255	0.099	ug/L	89
42) Toluene	7.394	91	21764	0.539	ug/L	99
47) Tetrachloroethene	7.982	164	3514	0.404	ug/L	95
48) 2-Hexanone	8.153	43	2428	0.847	ug/L #	44
49) Dibromochloromethane	7.979	129	3645	0.454	ug/L #	10
51) Chlorobenzene	8.882	112	207794	7.736	ug/L	99
52) Ethylbenzene	9.021	91	5142	0.121	ug/L	96
53) m,p-xylene	9.149	106	1881	0.112	ug/L	83

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

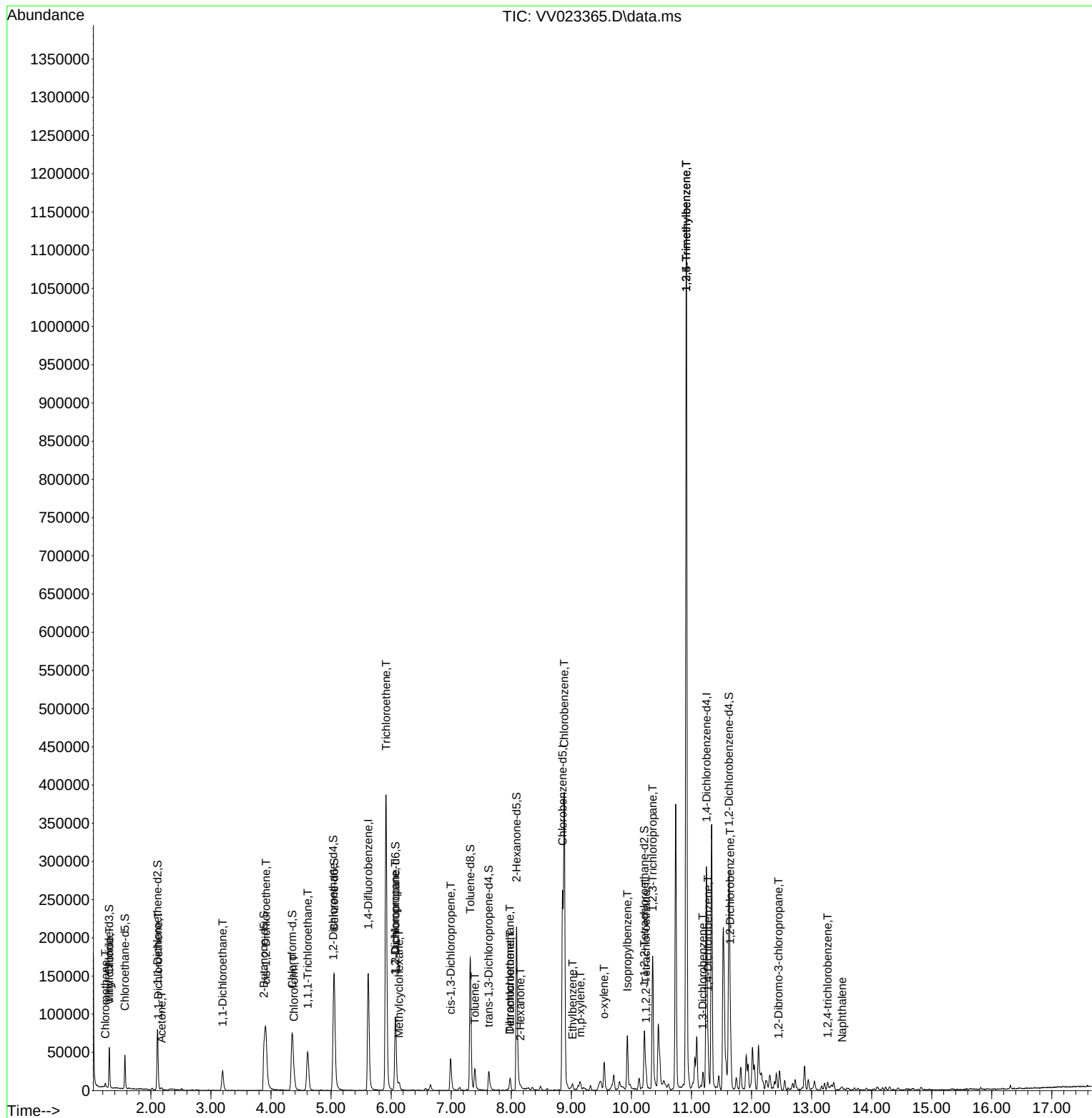
54) o-xylene	9.545	106	9639	0.614	ug/L	89
57) 1,1,2,2-Tetrachloroethane	10.242	83	2393	0.345	ug/L #	54
60) Isopropylbenzene	9.934	105	43713	1.017	ug/L	99
61) 1,2,3-Trichloropropane	10.355	75	924	0.186	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.914	105	609409	17.105	ug/L	95
63) 1,2,4-Trimethylbenzene	10.914	105	609409	17.186	ug/L	99
64) 1,3-Dichlorobenzene	11.188	146	2706	0.123	ug/L	86
65) 1,4-Dichlorobenzene	11.275	146	21847	0.974	ug/L	97
67) 1,2-Dichlorobenzene	11.644	146	19309	0.983	ug/L	97
68) 1,2-Dibromo-3-chloropr...	12.451	75	71	0.067	ug/L #	1
70) 1,2,4-trichlorobenzene	13.268	180	866	0.063	ug/L #	53
71) Naphthalene	13.509	128	3450	0.170	ug/L #	90

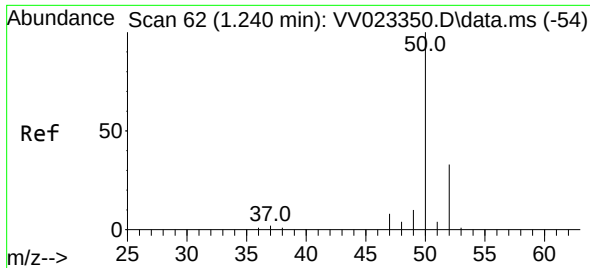
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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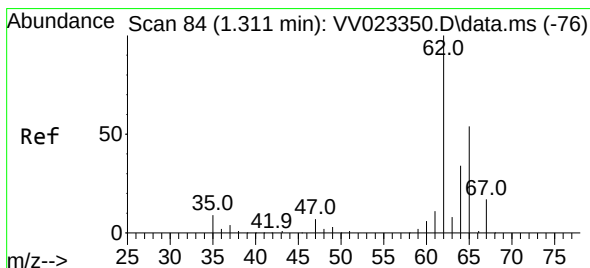
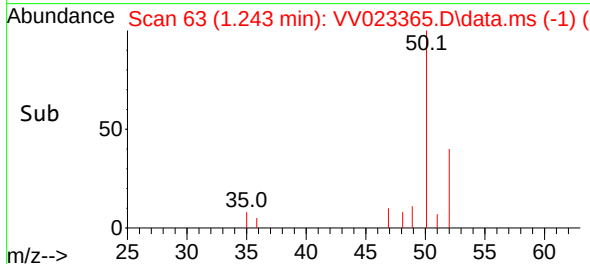
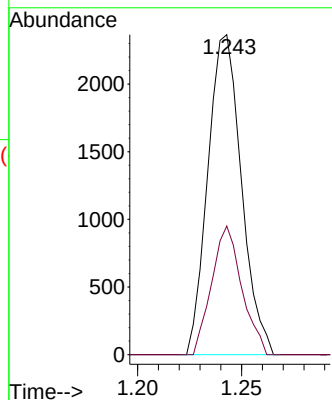
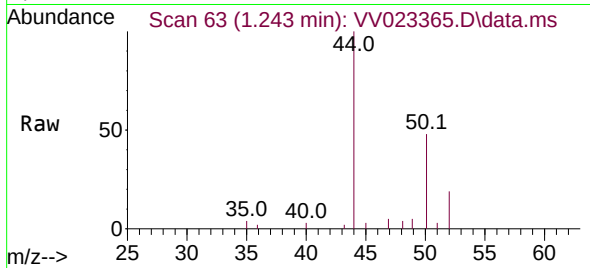




#3
Chloromethane
Concen: 0.233 ug/L
RT: 1.243 min Scan# 61
Delta R.T. 0.003 min
Lab File: VV023365.D
Acq: 11 Nov 2021 04:54

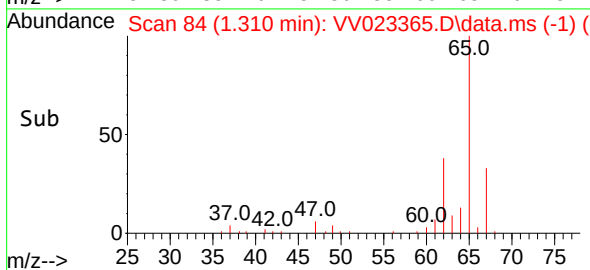
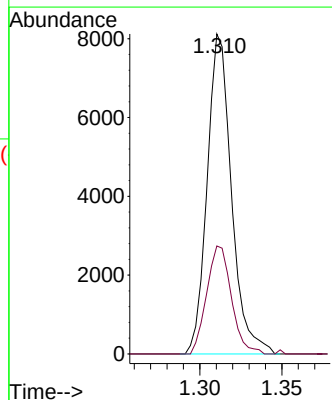
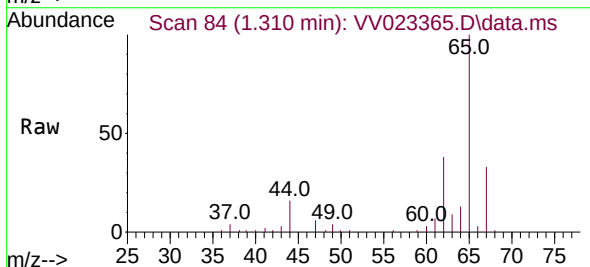
Instrument :
MSVOA_V
ClientSampleId :

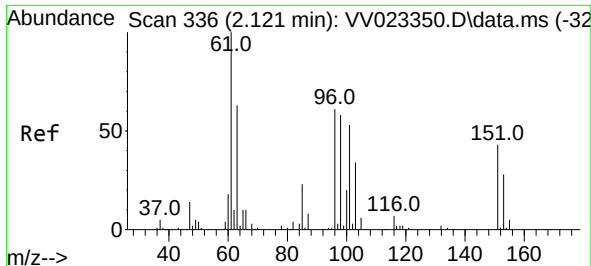
Tgt Ion: 50 Resp: 2654
Ion Ratio Lower Upper
50 100
52 40.2 24.3 45.1



#5
Vinyl chloride
Concen: 0.735 ug/L
RT: 1.310 min Scan# 84
Delta R.T. -0.000 min
Lab File: VV023365.D
Acq: 11 Nov 2021 04:54

Tgt Ion: 62 Resp: 8360
Ion Ratio Lower Upper
62 100
64 33.7 23.1 42.9





#12

1,1-Dichloroethene

Concen: 0.250 ug/L

RT: 2.124 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV023365.D

Acq: 11 Nov 2021 04:54

Instrument :

MSVOA_V

ClientSampleId :

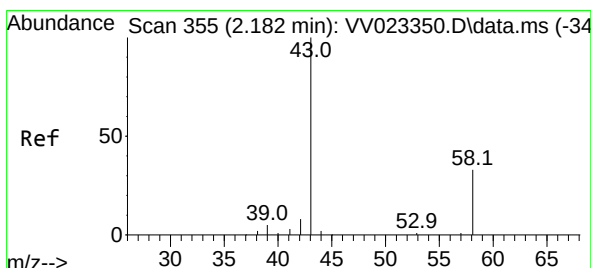
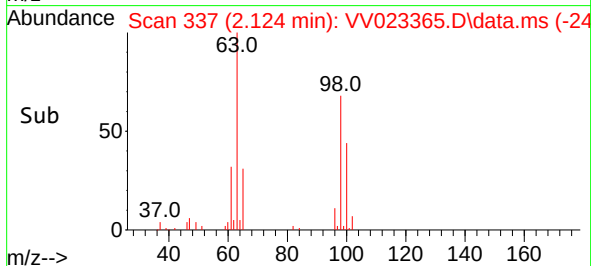
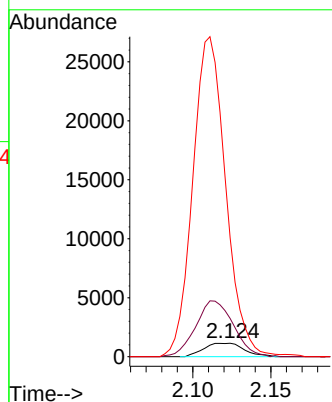
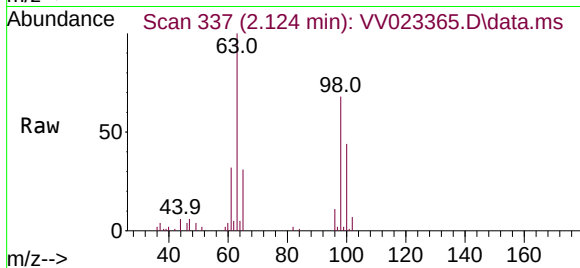
Tgt Ion: 96 Resp: 2050

Ion Ratio Lower Upper

96 100

61 283.5 121.5 225.7#

63 884.3 99.6 185.0#



#13

Acetone

Concen: 3.983 ug/L

RT: 2.178 min Scan# 354

Delta R.T. -0.003 min

Lab File: VV023365.D

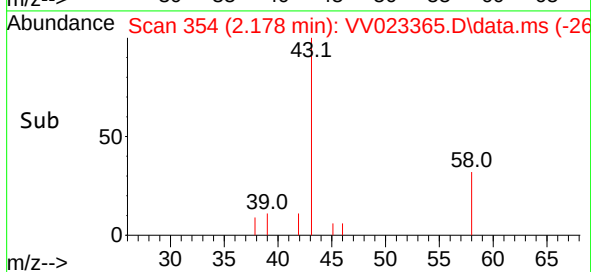
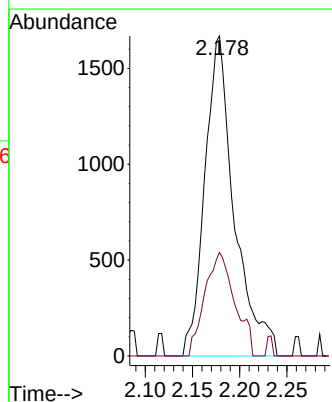
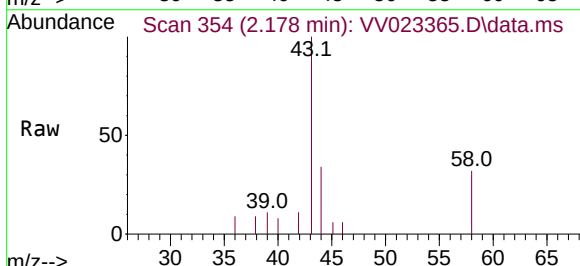
Acq: 11 Nov 2021 04:54

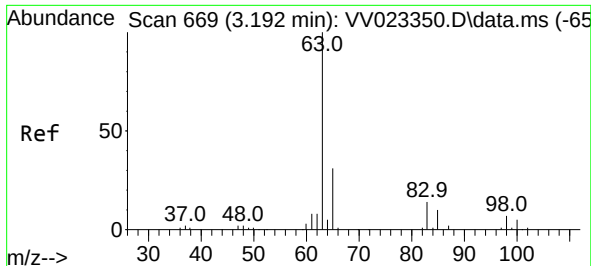
Tgt Ion: 43 Resp: 3608

Ion Ratio Lower Upper

43 100

58 32.9 0.0 55.4





#19

1,1-Dichloroethane

Concen: 1.482 ug/L

RT: 3.195 min Scan# 6

Delta R.T. 0.003 min

Lab File: VV023365.D

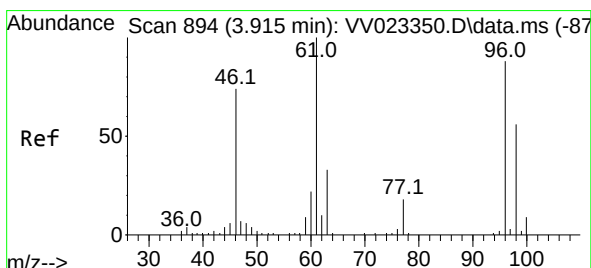
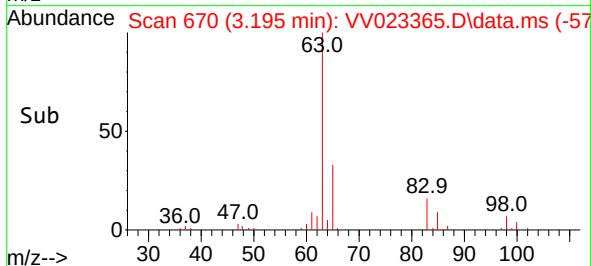
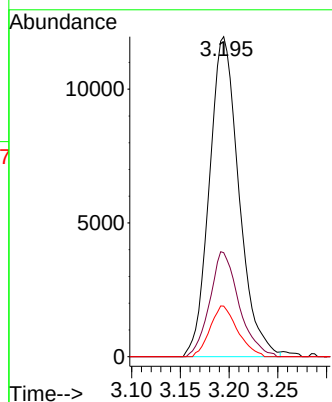
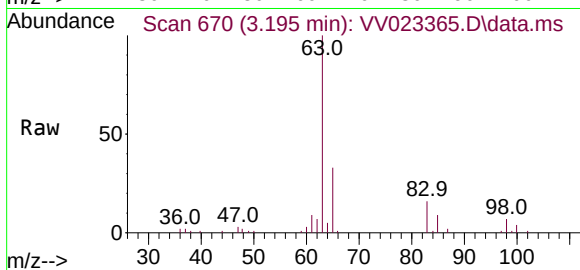
Acq: 11 Nov 2021 04:54

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 63	Resp: 25200
Ion Ratio	Lower Upper
63 100	
65 32.5	22.6 42.0
83 15.8	11.1 20.7



#22

cis-1,2-Dichloroethene

Concen: 3.623 ug/L

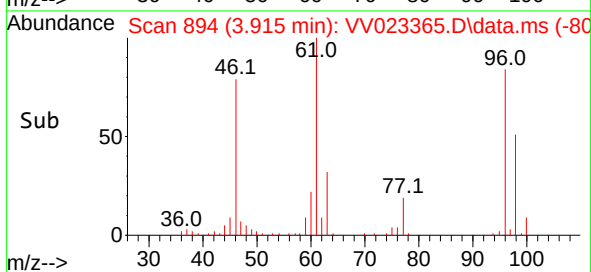
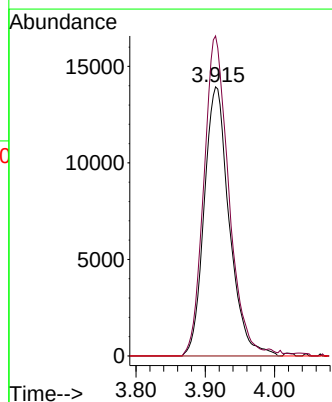
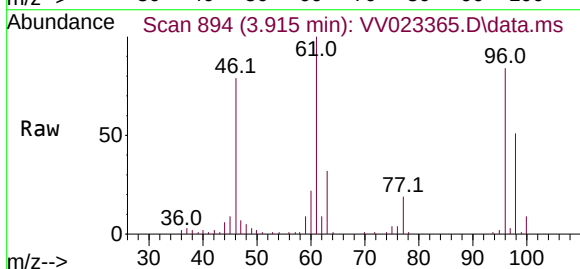
RT: 3.915 min Scan# 894

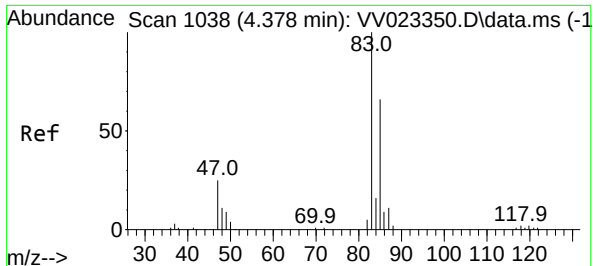
Delta R.T. -0.000 min

Lab File: VV023365.D

Acq: 11 Nov 2021 04:54

Tgt Ion: 96	Resp: 35112
Ion Ratio	Lower Upper
96 100	
61 118.9	92.3 171.3
68 0.0	0.4 0.8#





#25

Chloroform

Concen: 0.909 ug/L

RT: 4.381 min Scan# 1038

Delta R.T. 0.003 min

Lab File: VV023365.D

Acq: 11 Nov 2021 04:54

Instrument :

MSVOA_V

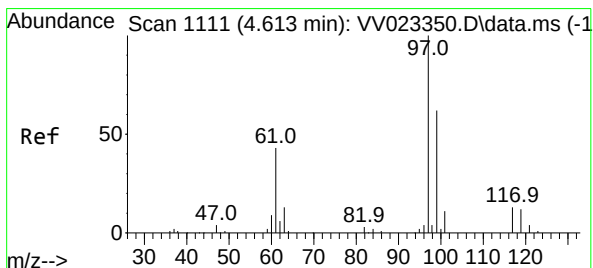
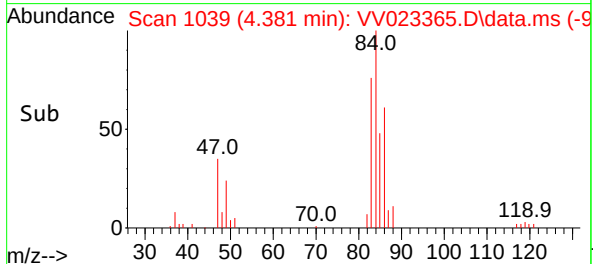
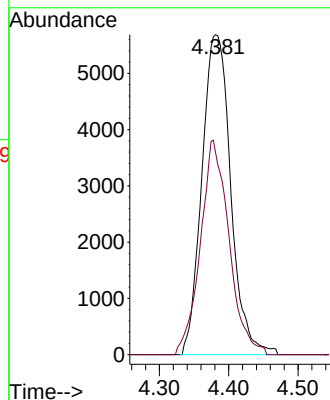
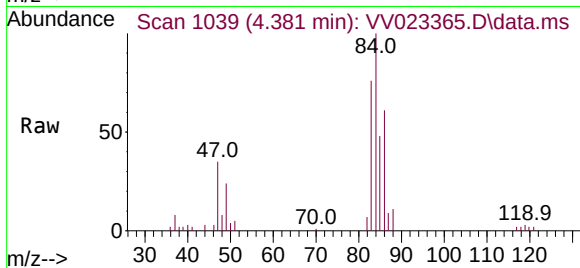
ClientSampleId :

Tgt Ion: 83 Resp: 16475

Ion Ratio Lower Upper

83 100

85 63.2 46.8 86.8



#29

1,1,1-Trichloroethane

Concen: 2.505 ug/L

RT: 4.612 min Scan# 1111

Delta R.T. -0.000 min

Lab File: VV023365.D

Acq: 11 Nov 2021 04:54

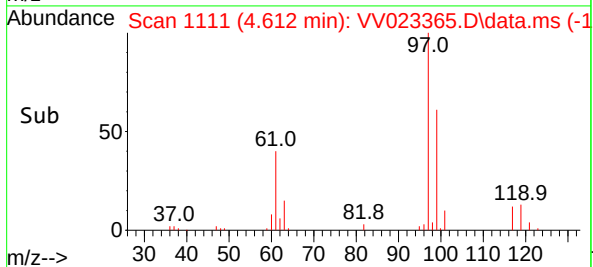
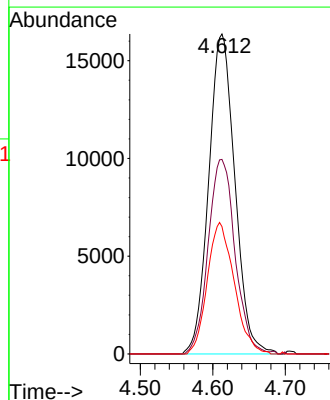
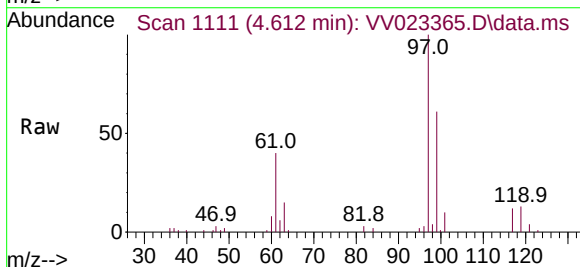
Tgt Ion: 97 Resp: 41118

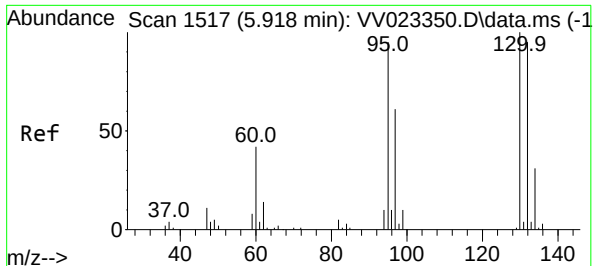
Ion Ratio Lower Upper

97 100

99 62.4 51.0 76.4

61 42.1 34.1 51.1





#34

Trichloroethene

Concen: 13.122 ug/L

RT: 5.915 min Scan# 1

Delta R.T. -0.003 min

Lab File: VV023365.D

Acq: 11 Nov 2021 04:54

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 95 Resp: 131842

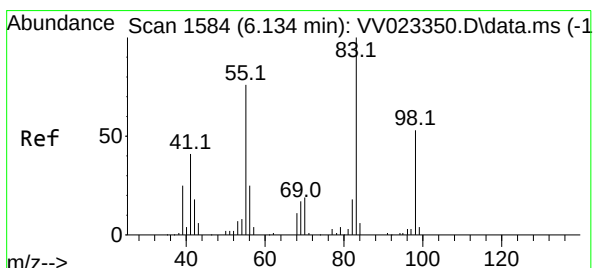
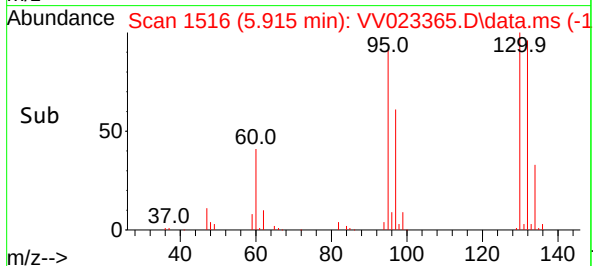
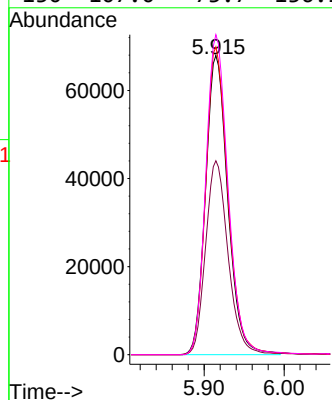
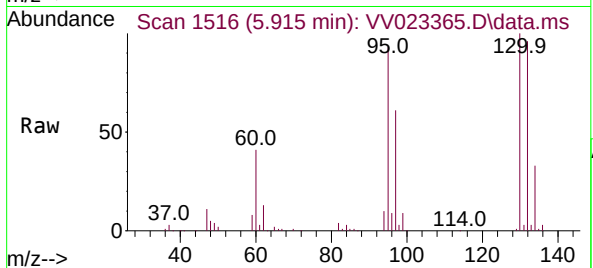
Ion Ratio Lower Upper

95 100

97 64.8 45.0 83.6

132 102.9 69.7 129.4

130 107.0 73.7 136.9



#35

Methylcyclohexane

Concen: 0.219 ug/L

RT: 6.133 min Scan# 1584

Delta R.T. -0.000 min

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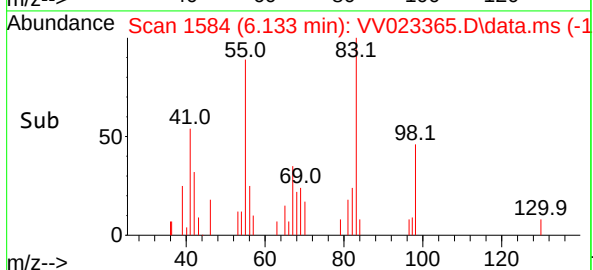
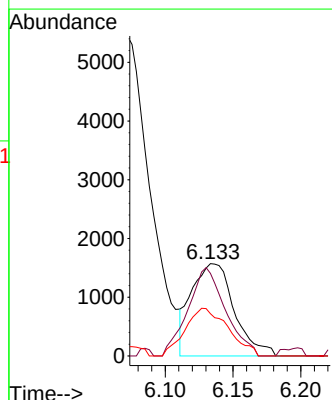
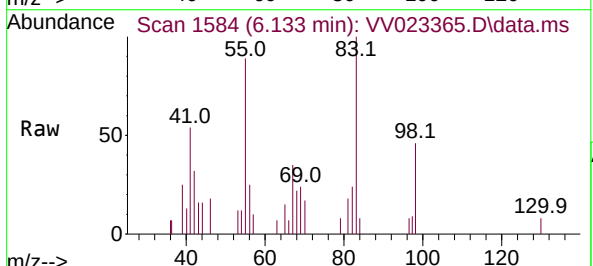
Tgt Ion: 83 Resp: 3467

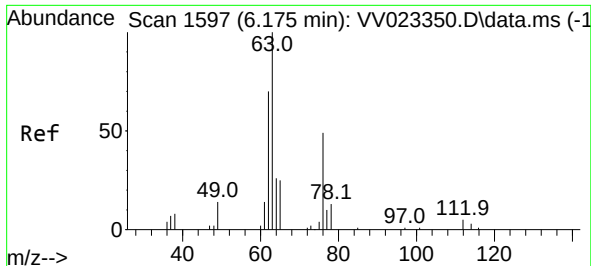
Ion Ratio Lower Upper

83 100

55 83.6 62.8 94.2

98 51.8 37.9 56.9





#37

1,2-Dichloropropane

Concen: 0.597 ug/L

RT: 6.069 min Scan# 11

Delta R.T. -0.106 min

Lab File: VV023365.D

Acq: 11 Nov 2021 04:54

Instrument :

MSVOA_V

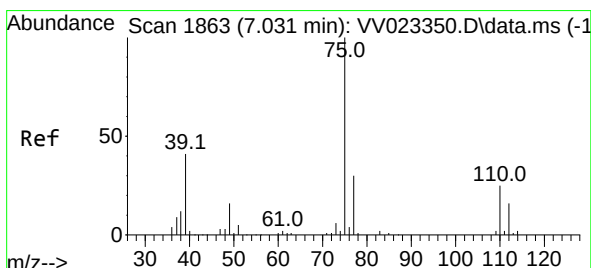
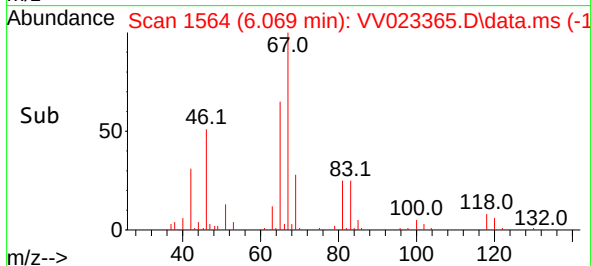
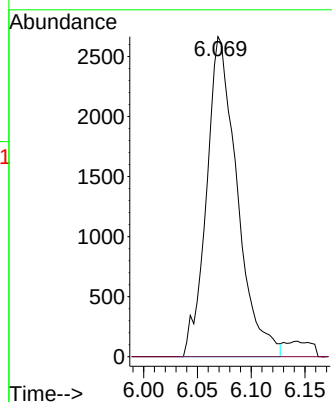
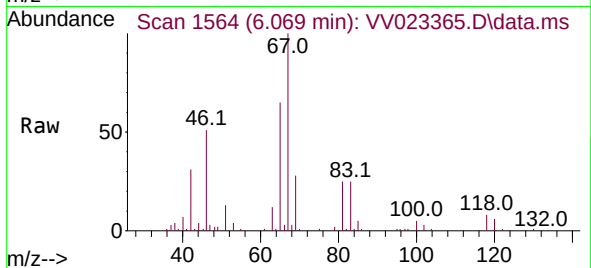
ClientSampleId :

Tgt Ion: 63 Resp: 5270

Ion Ratio Lower Upper

63 100

112 0.0 4.6 6.8#



#39

cis-1,3-Dichloropropene

Concen: 0.099 ug/L

RT: 6.992 min Scan# 1851

Delta R.T. -0.039 min

Lab File: VV023365.D

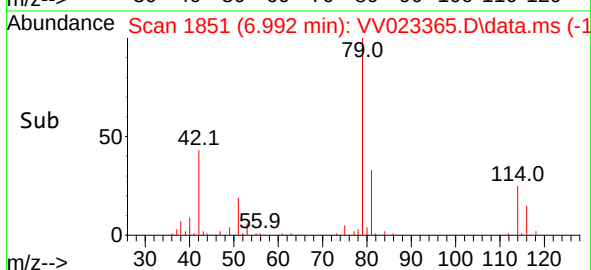
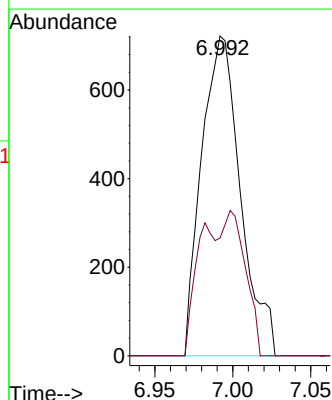
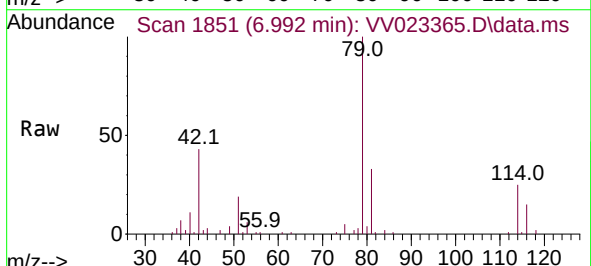
Acq: 11 Nov 2021 04:54

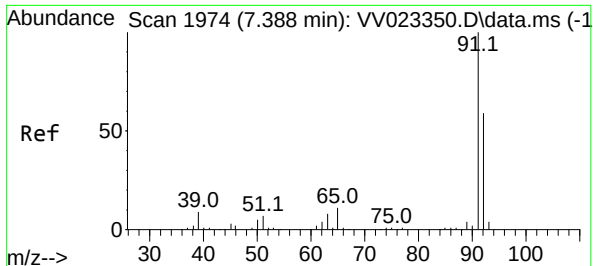
Tgt Ion: 75 Resp: 1255

Ion Ratio Lower Upper

75 100

77 36.8 21.6 40.2





#42

Toluene

Concen: 0.539 ug/L

RT: 7.394 min Scan# 1974

Delta R.T. 0.006 min

Lab File: VV023365.D

Acq: 11 Nov 2021 04:54

Instrument :

MSVOA_V

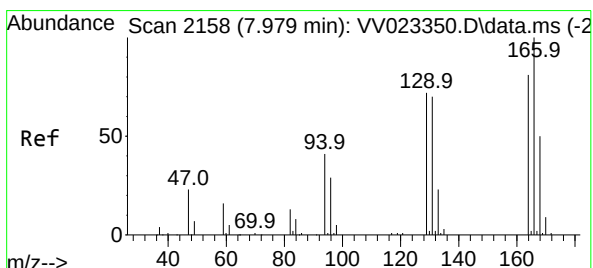
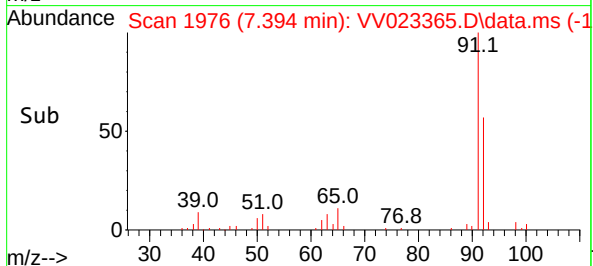
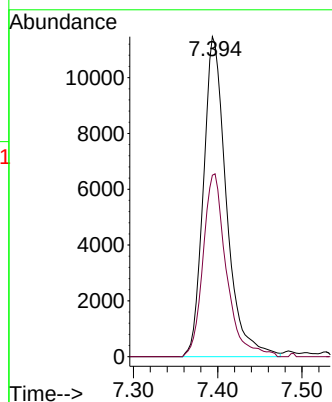
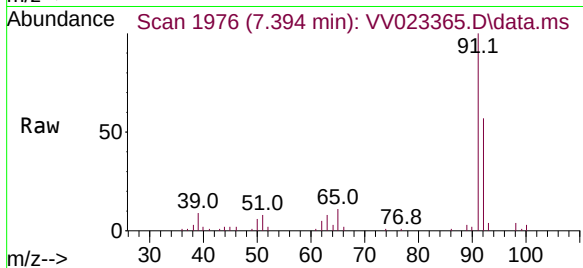
ClientSampleId :

Tgt Ion: 91 Resp: 21764

Ion Ratio Lower Upper

91 100

92 56.7 39.3 72.9



#47

Tetrachloroethene

Concen: 0.404 ug/L

RT: 7.982 min Scan# 2159

Delta R.T. 0.003 min

Lab File: VV023365.D

Acq: 11 Nov 2021 04:54

Tgt Ion: 164 Resp: 3514

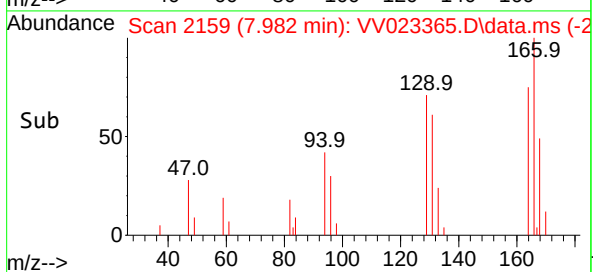
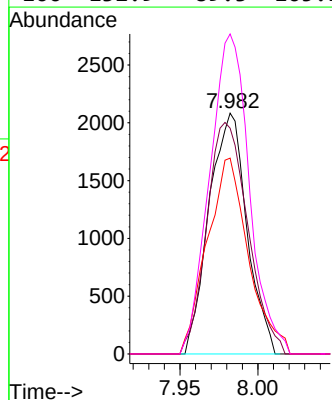
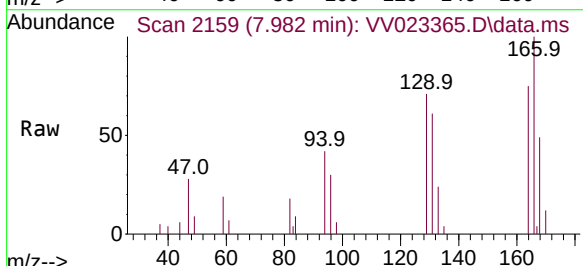
Ion Ratio Lower Upper

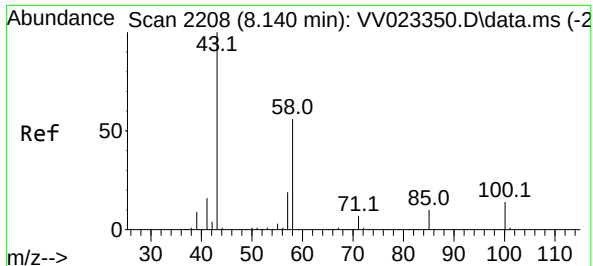
164 100

129 93.8 64.0 119.0

131 81.3 63.4 117.8

166 132.9 89.3 165.9

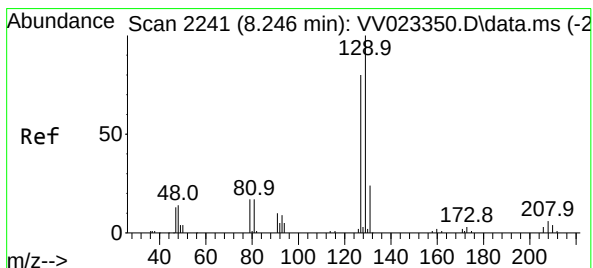
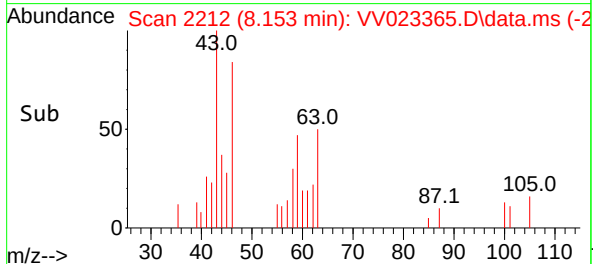
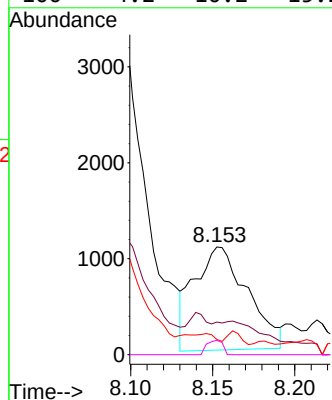
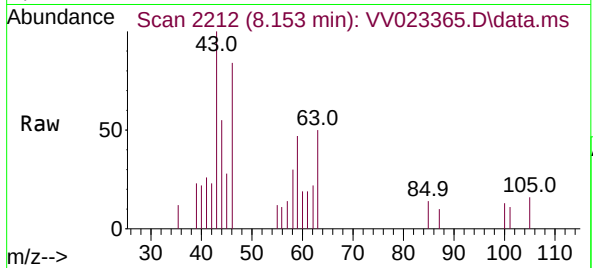




#48
2-Hexanone
Concen: 0.847 ug/L
RT: 8.153 min Scan# 2158
Delta R.T. 0.013 min
Lab File: VV023365.D
Acq: 11 Nov 2021 04:54

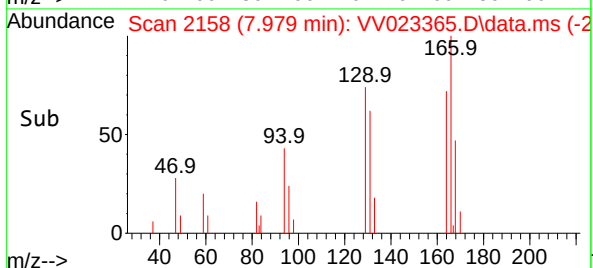
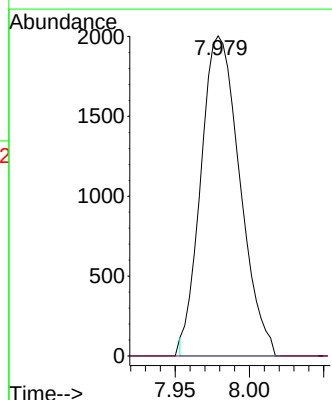
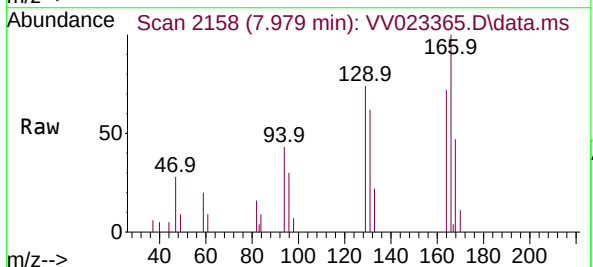
Instrument :
MSVOA_V
ClientSampleId :

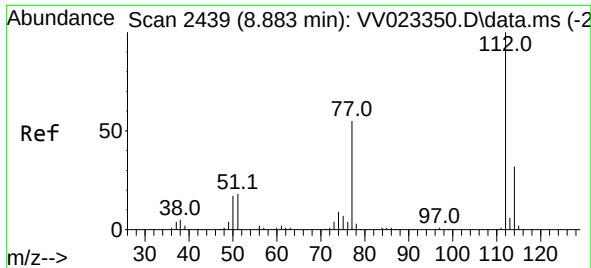
Tgt Ion: 43 Resp: 2428
Ion Ratio Lower Upper
43 100
58 4.5 43.7 65.5#
57 0.0 14.1 21.1#
100 4.2 10.2 15.2#



#49
Dibromochloromethane
Concen: 0.454 ug/L
RT: 7.979 min Scan# 2158
Delta R.T. -0.267 min
Lab File: VV023365.D
Acq: 11 Nov 2021 04:54

Tgt Ion: 129 Resp: 3645
Ion Ratio Lower Upper
129 100
127 0.0 54.7 101.7#

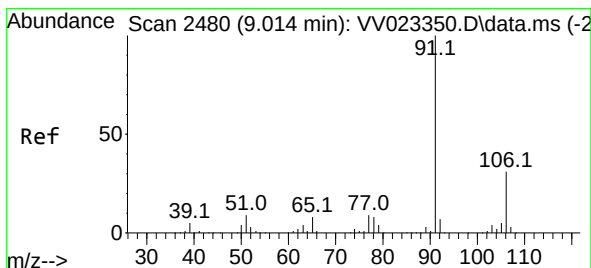
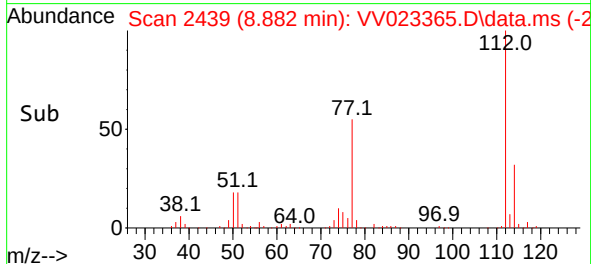
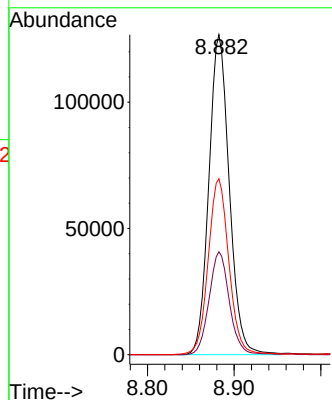
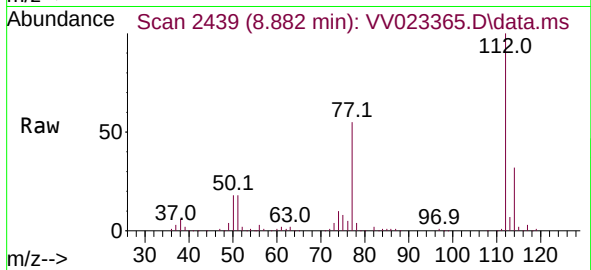




#51
Chlorobenzene
Concen: 7.736 ug/L
RT: 8.882 min Scan# 2439
Delta R.T. -0.000 min
Lab File: VV023365.D
Acq: 11 Nov 2021 04:54

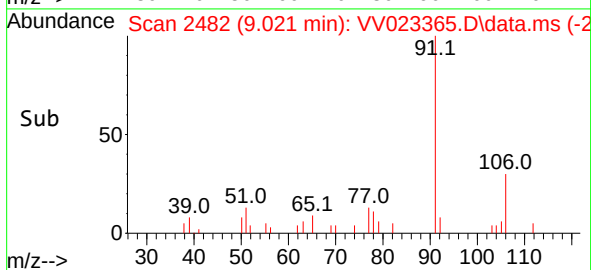
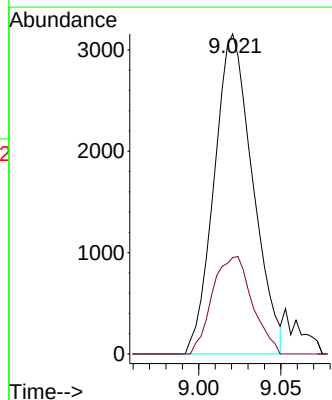
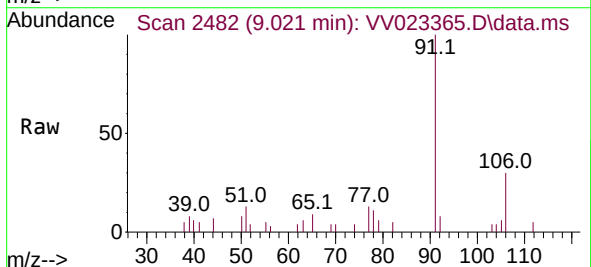
Instrument :
MSVOA_V
ClientSampleId :

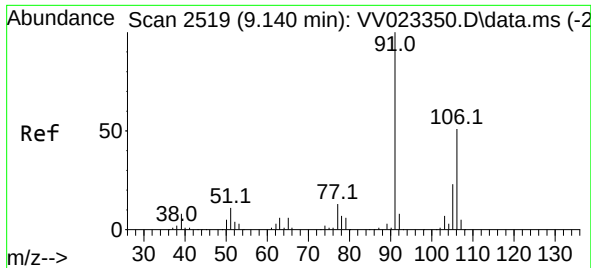
Tgt Ion:112 Resp: 207794
Ion Ratio Lower Upper
112 100
114 32.1 22.0 40.8
77 55.0 44.4 66.6



#52
Ethylbenzene
Concen: 0.121 ug/L
RT: 9.021 min Scan# 2482
Delta R.T. 0.006 min
Lab File: VV023365.D
Acq: 11 Nov 2021 04:54

Tgt Ion: 91 Resp: 5142
Ion Ratio Lower Upper
91 100
106 30.1 22.5 41.9

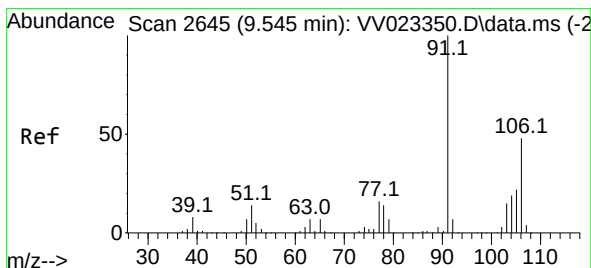
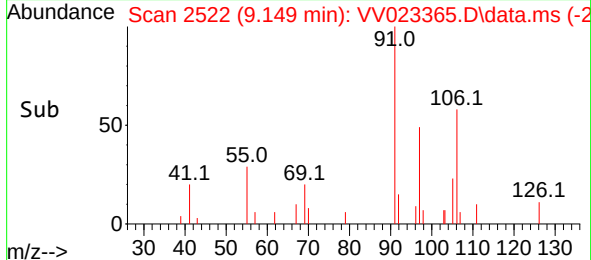
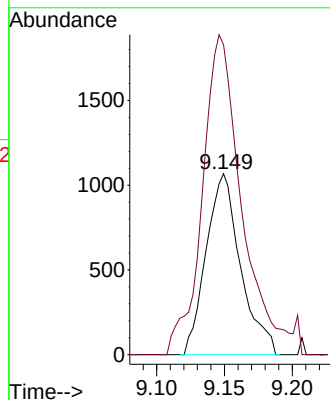
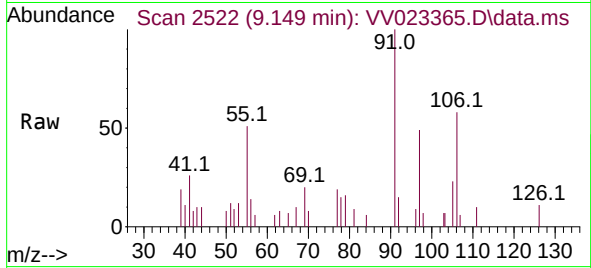




#53
m,p-xylene
Concen: 0.112 ug/L
RT: 9.149 min Scan# 21
Delta R.T. 0.009 min
Lab File: VV023365.D
Acq: 11 Nov 2021 04:54

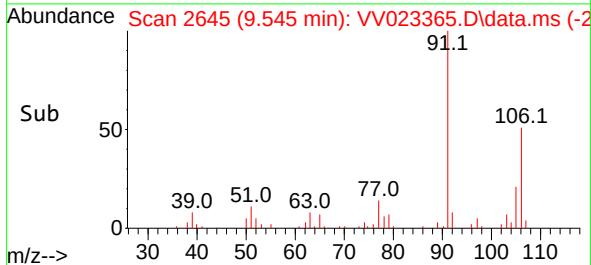
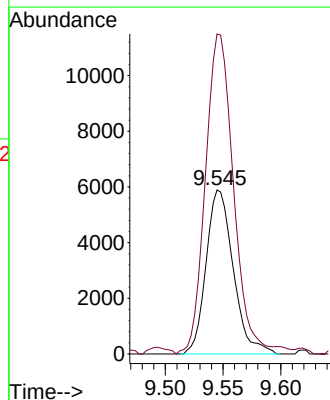
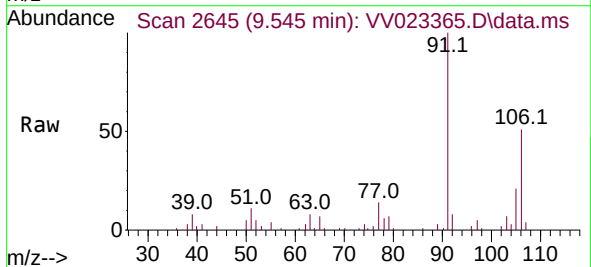
Instrument :
MSVOA_V
ClientSampleId :

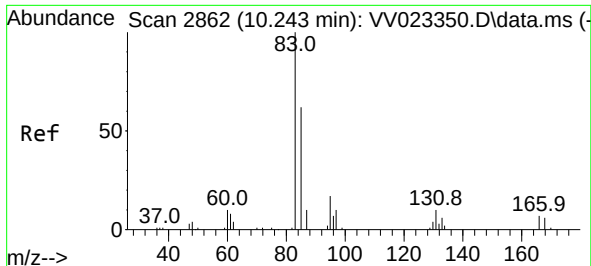
Tgt Ion:106 Resp: 1881
Ion Ratio Lower Upper
106 100
91 171.3 137.2 254.8



#54
o-xylene
Concen: 0.614 ug/L
RT: 9.545 min Scan# 2645
Delta R.T. -0.000 min
Lab File: VV023365.D
Acq: 11 Nov 2021 04:54

Tgt Ion:106 Resp: 9639
Ion Ratio Lower Upper
106 100
91 195.1 148.3 275.5





#57

1,1,2,2-Tetrachloroethane

Concen: 0.345 ug/L

RT: 10.242 min Scan# 2862

Delta R.T. -0.000 min

Lab File: VV023365.D

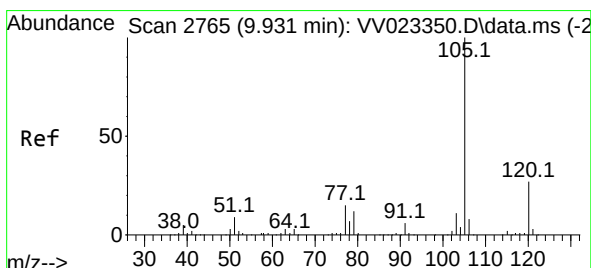
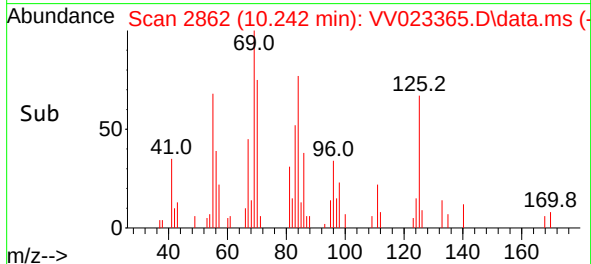
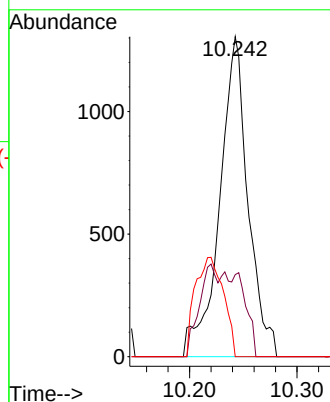
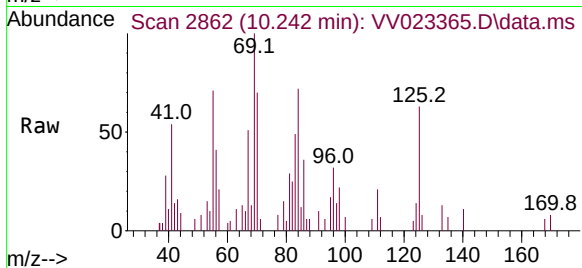
Acq: 11 Nov 2021 04:54

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:	83	Resp:	2393
Ion	Ratio	Lower	Upper
83	100		
85	25.7	45.1	83.9#
131	0.0	7.8	11.6#



#60

Isopropylbenzene

Concen: 1.017 ug/L

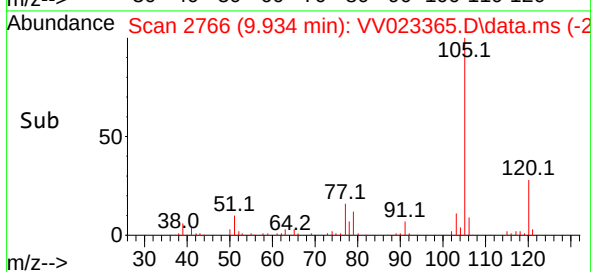
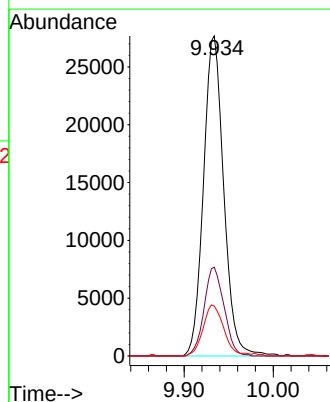
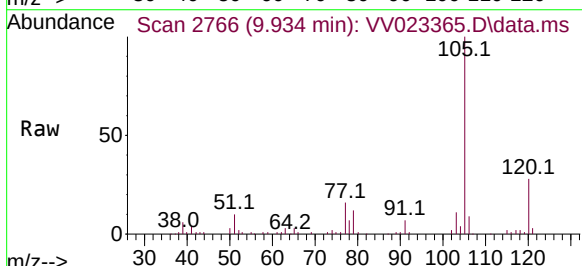
RT: 9.934 min Scan# 2766

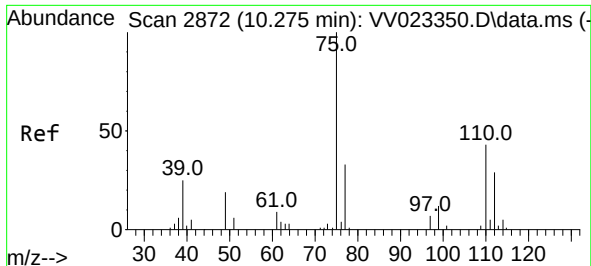
Delta R.T. 0.003 min

Lab File: VV023365.D

Acq: 11 Nov 2021 04:54

Tgt Ion:	105	Resp:	43713
Ion	Ratio	Lower	Upper
105	100		
120	27.3	21.7	32.5
77	16.4	12.6	19.0

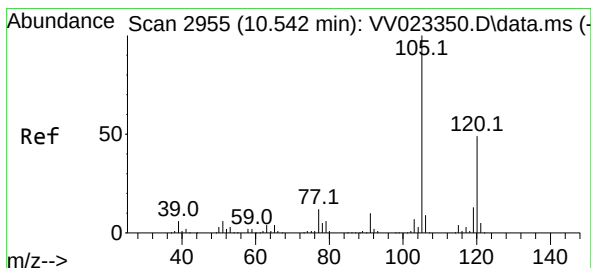
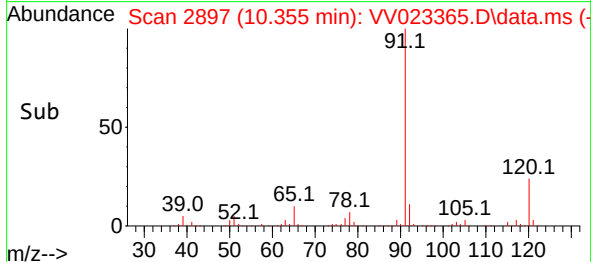
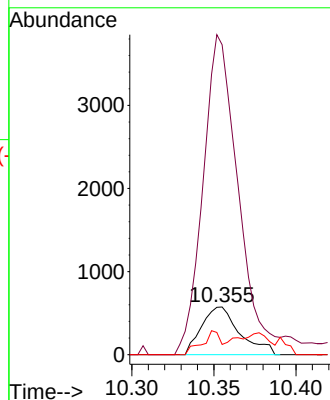
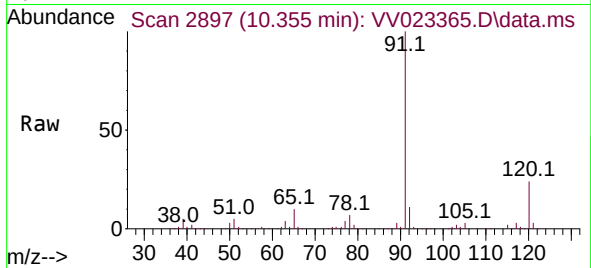




#61
1,2,3-Trichloropropane
Concen: 0.186 ug/L
RT: 10.355 min Scan# 21
Delta R.T. 0.080 min
Lab File: VV023365.D
Acq: 11 Nov 2021 04:54

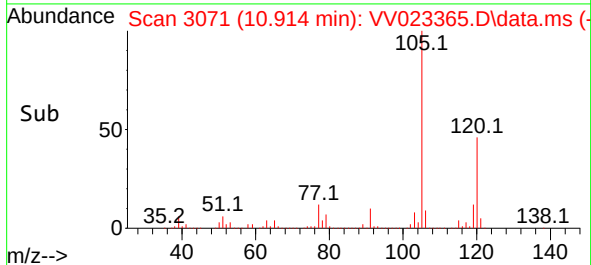
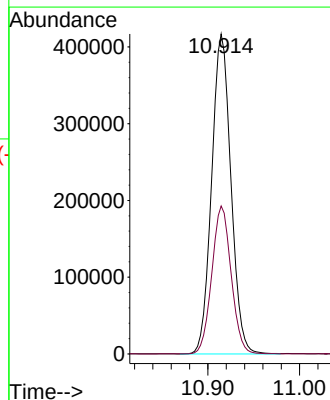
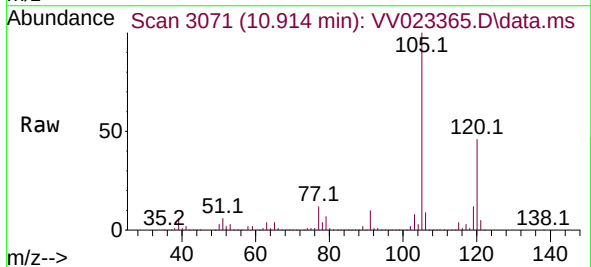
Instrument :
MSVOA_V
ClientSampleId :

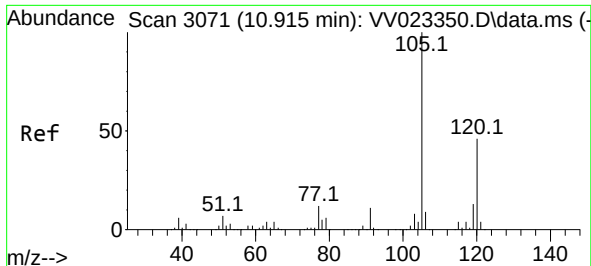
Tgt Ion: 75 Resp: 924
Ion Ratio Lower Upper
75 100
77 645.3 26.6 39.8#
110 27.1 31.8 47.6#



#62
1,3,5-Trimethylbenzene
Concen: 17.105 ug/L
RT: 10.914 min Scan# 3071
Delta R.T. 0.373 min
Lab File: VV023365.D
Acq: 11 Nov 2021 04:54

Tgt Ion: 105 Resp: 609409
Ion Ratio Lower Upper
105 100
120 46.2 39.7 59.5





#63

1,2,4-Trimethylbenzene

Concen: 17.186 ug/L

RT: 10.914 min Scan# 3071

Delta R.T. -0.000 min

Lab File: VV023365.D

Acq: 11 Nov 2021 04:54

Instrument :

MSVOA_V

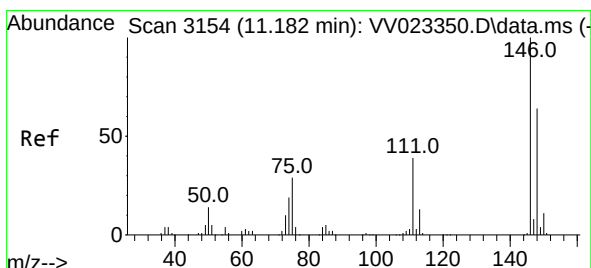
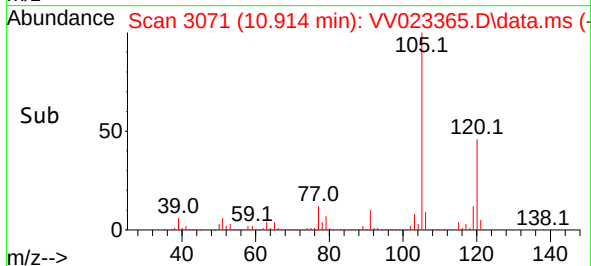
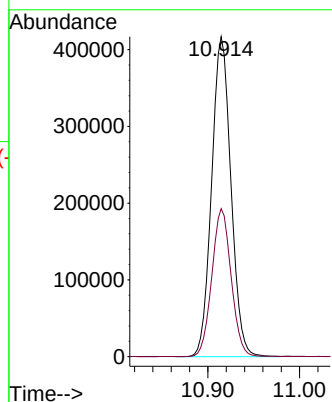
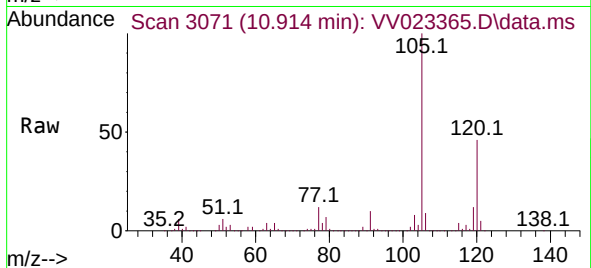
ClientSampleId :

Tgt Ion:105 Resp: 609409

Ion Ratio Lower Upper

105 100

120 46.2 37.4 56.2



#64

1,3-Dichlorobenzene

Concen: 0.123 ug/L

RT: 11.188 min Scan# 3156

Delta R.T. 0.006 min

Lab File: VV023365.D

Acq: 11 Nov 2021 04:54

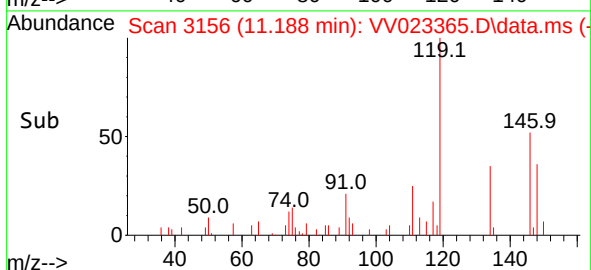
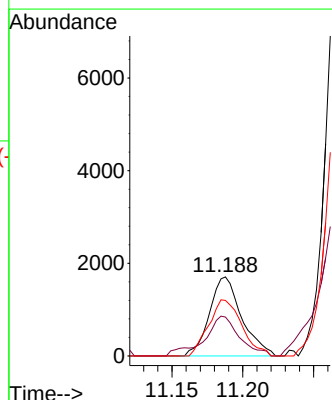
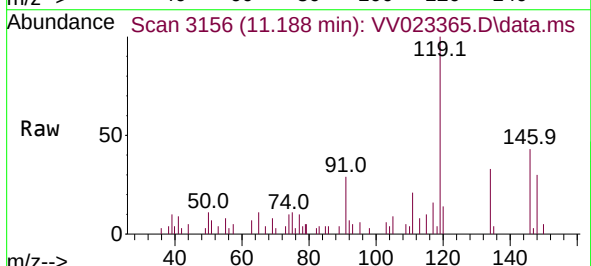
Tgt Ion:146 Resp: 2706

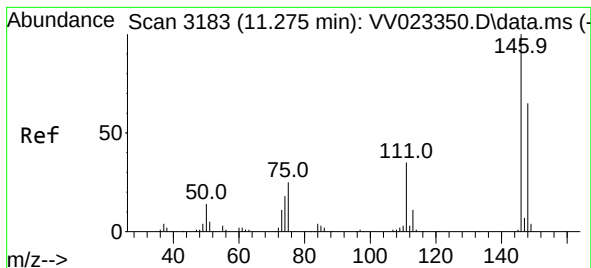
Ion Ratio Lower Upper

146 100

111 49.1 26.7 49.7

148 70.2 42.9 79.7





#65

1,4-Dichlorobenzene

Concen: 0.974 ug/L

RT: 11.275 min Scan# 3183

Delta R.T. -0.000 min

Lab File: VV023365.D

Acq: 11 Nov 2021 04:54

Instrument :

MSVOA_V

ClientSampleId :

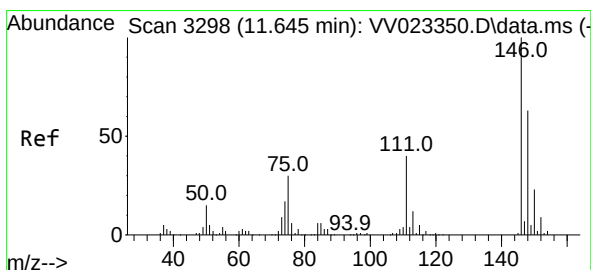
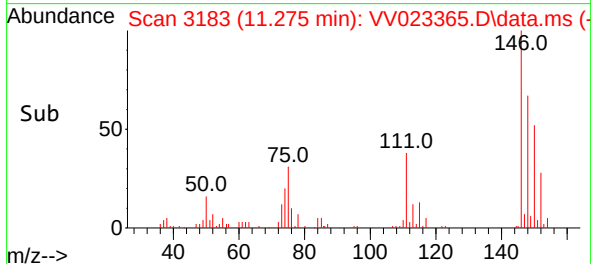
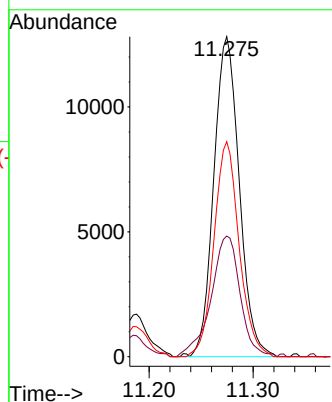
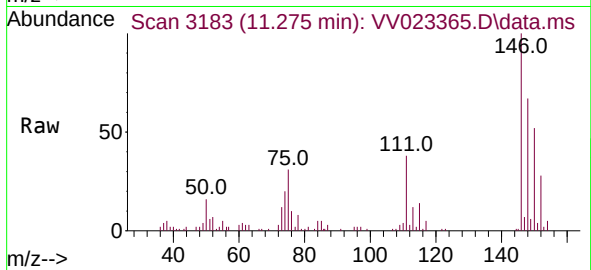
Tgt Ion:146 Resp: 21847

Ion Ratio Lower Upper

146 100

111 37.7 26.2 48.8

148 67.2 44.4 82.5



#67

1,2-Dichlorobenzene

Concen: 0.983 ug/L

RT: 11.644 min Scan# 3298

Delta R.T. -0.000 min

Lab File: VV023365.D

Acq: 11 Nov 2021 04:54

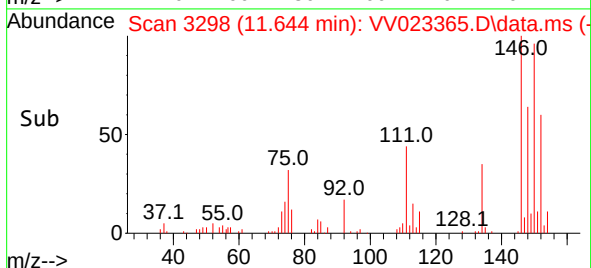
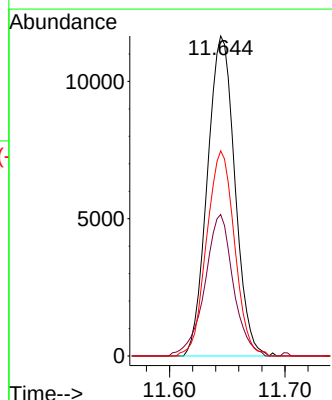
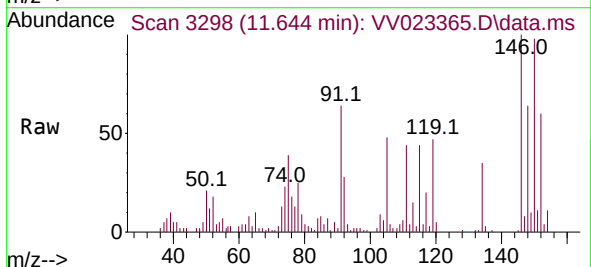
Tgt Ion:146 Resp: 19309

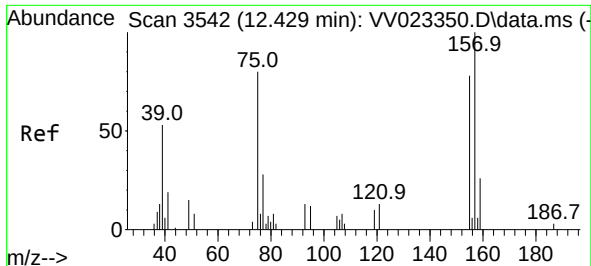
Ion Ratio Lower Upper

146 100

111 44.2 31.6 47.4

148 64.1 51.0 76.6

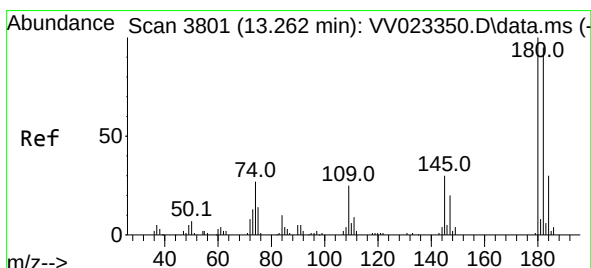
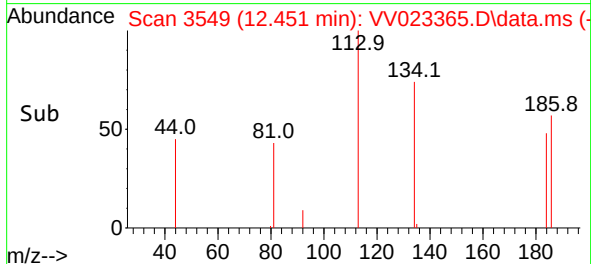
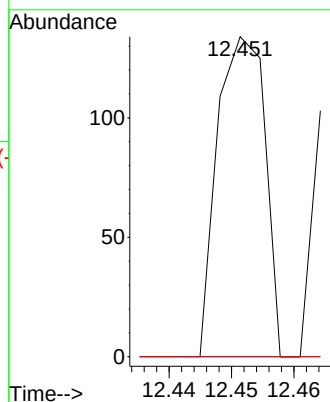
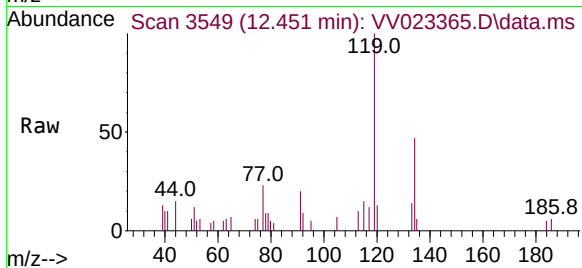




#68
1,2-Dibromo-3-chloropropane
Concen: 0.067 ug/L
RT: 12.451 min Scan# 3549
Delta R.T. 0.022 min
Lab File: VV023365.D
Acq: 11 Nov 2021 04:54

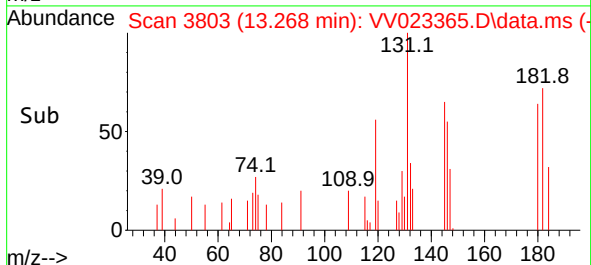
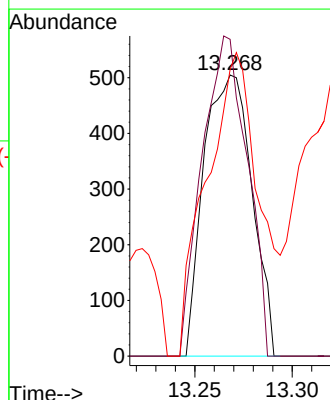
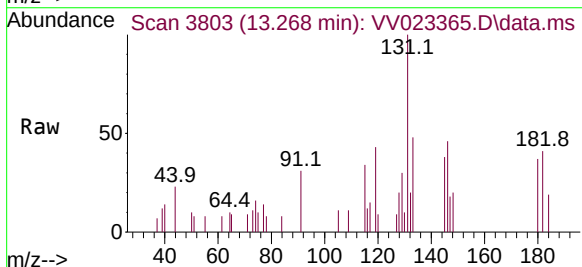
Instrument :
MSVOA_V
ClientSampleId :

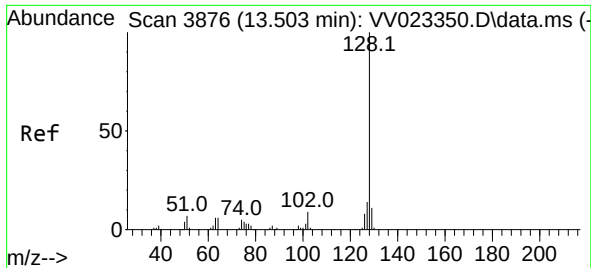
Tgt Ion: 75 Resp: 71
Ion Ratio Lower Upper
75 100
155 0.0 67.7 101.5#
157 0.0 87.9 131.9#



#70
1,2,4-trichlorobenzene
Concen: 0.063 ug/L
RT: 13.268 min Scan# 3803
Delta R.T. 0.006 min
Lab File: VV023365.D
Acq: 11 Nov 2021 04:54

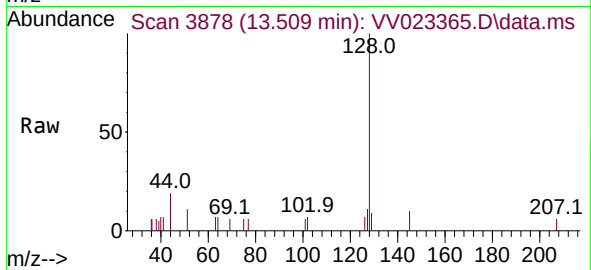
Tgt Ion:180 Resp: 866
Ion Ratio Lower Upper
180 100
182 106.9 76.9 115.3
145 118.2 24.4 36.6#





#71
Naphthalene
Concen: 0.170 ug/L
RT: 13.509 min Scan# 3878
Delta R.T. 0.006 min
Lab File: VV023365.D
Acq: 11 Nov 2021 04:54

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion:128 Resp: 3450
Ion Ratio Lower Upper
128 100
129 6.6 8.6 13.0#
127 9.3 10.5 15.7#

