

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW081518\
 Data File : VW004684.D
 Acq On : 15 Aug 2018 00:20
 Operator : SY/AP
 Sample : J4450-08
 Misc : 6.16G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Aug 15 08:27:01 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM081418S.M
 Quant Title : VOC Analysis
 QLast Update : Tue Aug 14 12:36:48 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	826503	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.64	117	674038	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.57	152	389285	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	231115	17.59	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	70.36%
7) Chloroethane-d5	2.89	69	175538	17.28	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	69.12%
10) 1,1-Dichloroethene-d2	4.02	63	304311	12.66	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	50.64%
20) 2-Butanone-d5	7.09	46	232407	65.38	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	130.76%
24) Chloroform-d	7.65	84	431126	19.46	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	77.84%
26) 1,2-Dichloroethane-d4	8.31	65	261755	22.31	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	89.24%
29) Benzene-d6	8.28	84	900799	23.83	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	95.32%
33) 1,2-Dichloropropane-d6	9.34	67	3164516	269.52	ug/L	0.06
Spiked Amount	25.000	Range	70 - 120	Recovery	=	1078.08%#
37) Toluene-d8	10.34	98	3342357	98.54	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	394.16%#
38) trans-1,3-Dichloropropene-	10.58	79	201676	42.30	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	169.20%#
39) 2-Hexanone-d5	10.93	63	288496	122.95	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	245.90%#
48) 1,1,2,2-Tetrachloroethane-	12.71	84	471496	42.81	ug/L	0.01
Spiked Amount	25.000	Range	45 - 120	Recovery	=	171.24%#
61) 1,2-Dichlorobenzene-d4	13.87	152	340934	23.09	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	92.36%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Acetone	4.13	43	184313	56.509	ug/L	97
21) 2-Butanone	7.18	43	98084	21.501	ug/L #	72
30) Cyclohexane	7.93	56	5921612	336.158	ug/L #	75
35) Trichloroethene	9.12	95	138021	12.783	ug/L #	17
36) Methylcyclohexane	9.52	83	892959	44.323	ug/L #	1
40) 1,2-Dichloropropane	9.40	63	58680	5.390	ug/L #	87
41) Bromodichloromethane	9.63	83	1906453	149.878	ug/L #	42
43) 4-Methyl-2-pentanone	10.27	43	8596670	1192.543	ug/L #	78
44) Toluene	10.40	91	220352	5.072	ug/L	91
46) 1,1,2-Trichloroethane	10.77	97	12384898	1505.105	ug/L #	30
49) 2-Hexanone	10.94	43	18253049	3476.686	ug/L #	18
50) Dibromochloromethane	11.05	129	59538	6.433	ug/L	82
51) 1,2-Dibromoethane	11.21	107	58607	7.388	ug/L #	1
53) Ethylbenzene	11.65	91	180785	3.736	ug/L #	46
54) m,p-Xylene	11.84	106	18195129	989.331	ug/L #	35
55) o-xylene	12.18	106	826107	47.525	ug/L	93
57) Isopropylbenzene	12.48	105	12734064	270.500	ug/L	96

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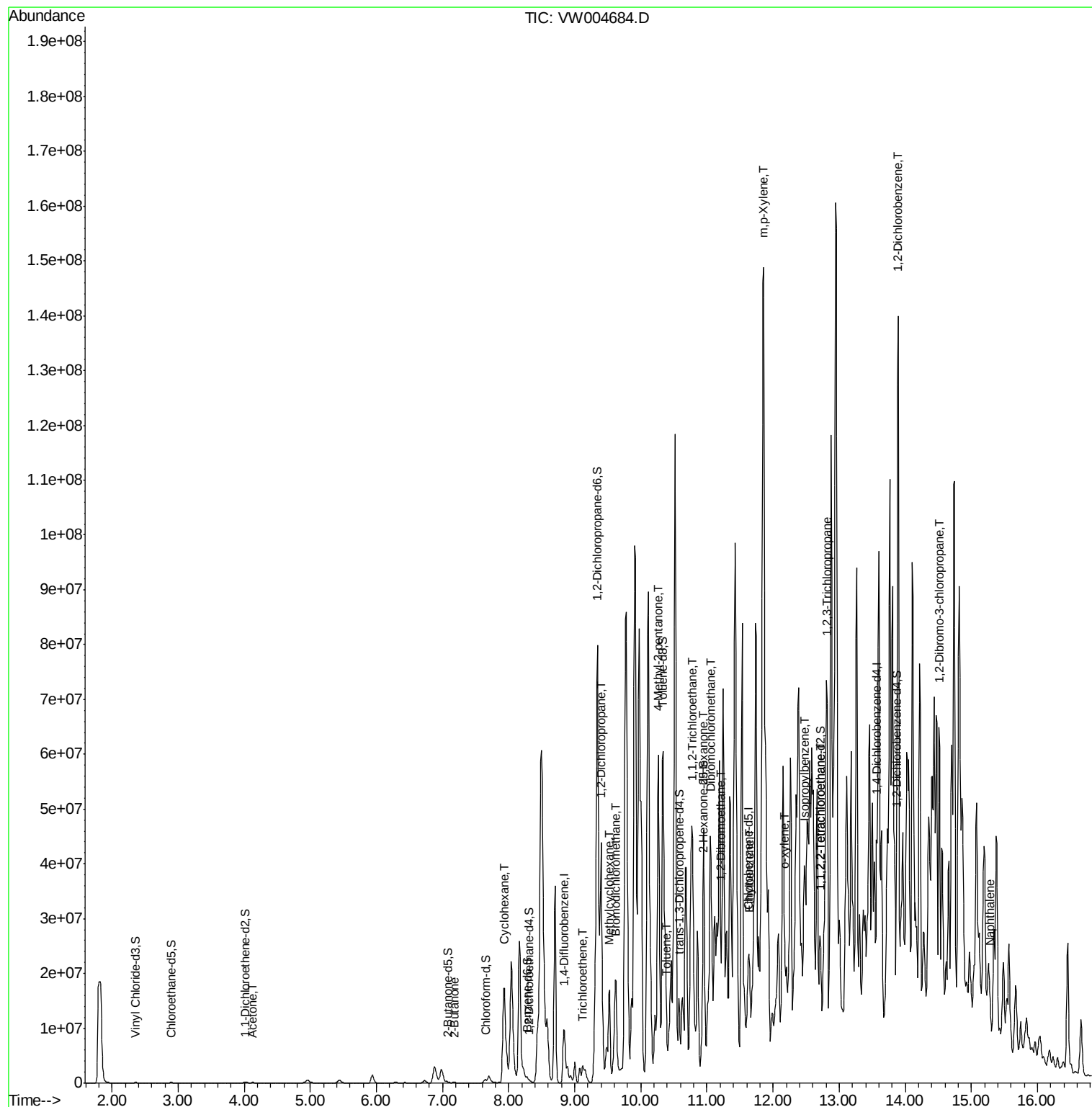
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
58) 1,1,2,2-Tetrachloroethane	12.71	83	528810	46.603	ug/L #	57
59) 1,2,3-Trichloropropane	12.82	75	321651	38.503	ug/L #	1
65) 1,2-Dichlorobenzene	13.88	146	84626	3.436	ug/L #	1
66) 1,2-Dibromo-3-chloropropan	14.51	75	117428	56.584	ug/L #	16
69) Naphthalene	15.29	128	133044	3.973	ug/L #	1

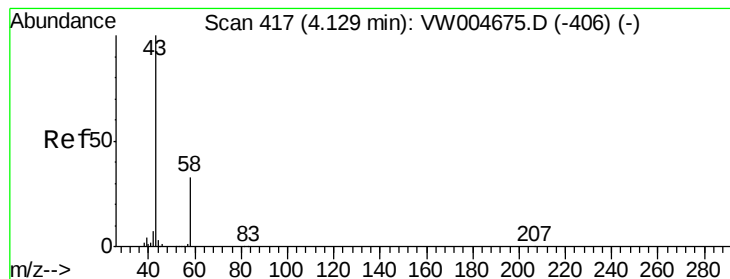
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 56.509 ug/L

RT: 4.13 min Scan# 417

Delta R.T. -0.01 min

Lab File: VW004684.D

Acq: 15 Aug 2018 00:20

Instrument :

MSVOA_W

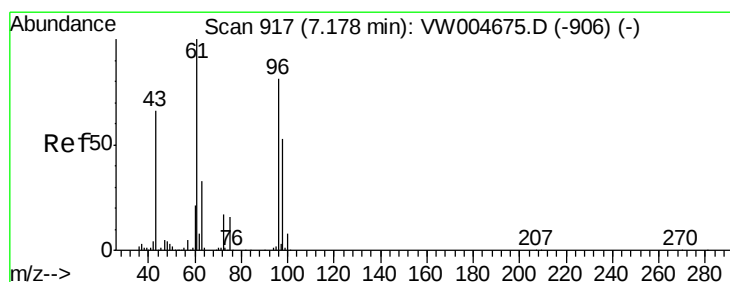
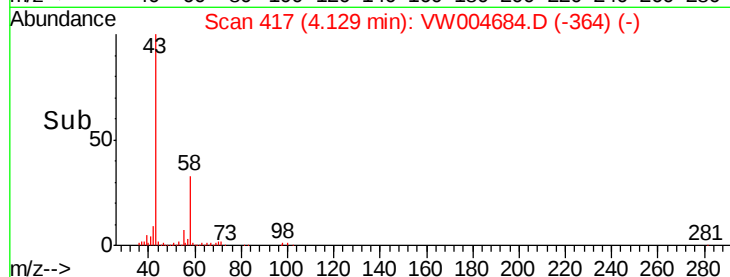
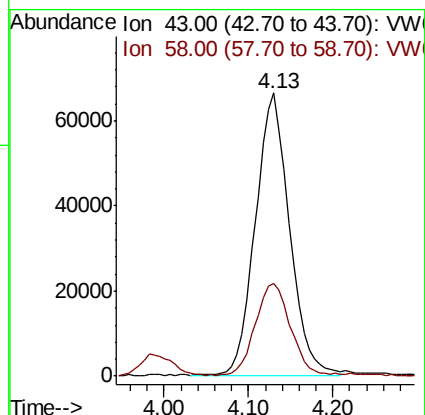
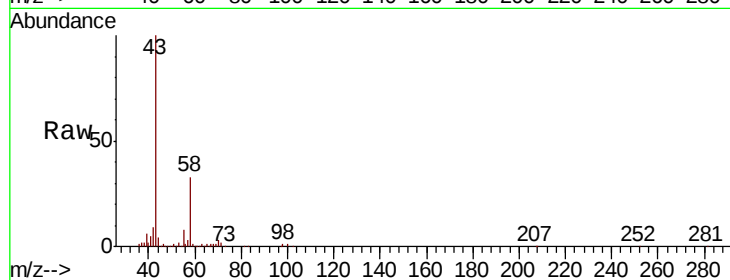
ClientSampleId :

Tot Ion: 43 Resp: 184313

Ion Ratio Lower Upper

43 100

58 33.2 0.0 69.4



#21

2-Butanone

Concen: 21.501 ug/L

RT: 7.18 min Scan# 917

Delta R.T. -0.00 min

Lab File: VW004684.D

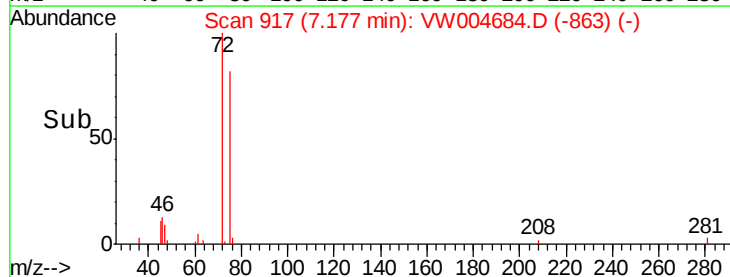
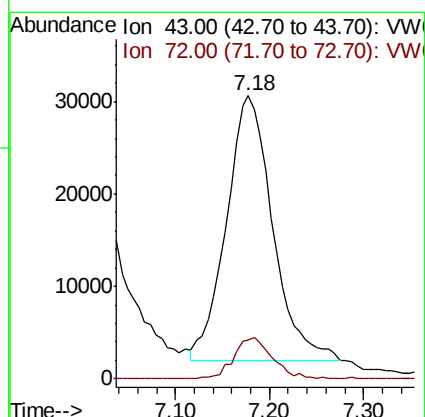
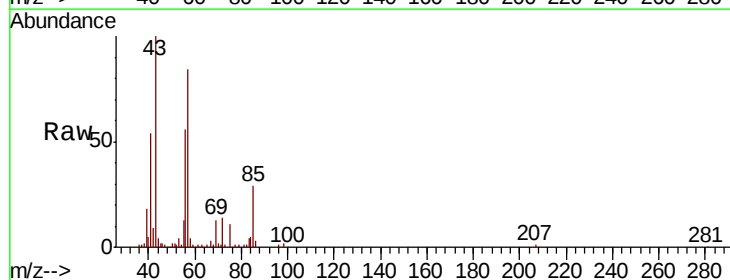
Acq: 15 Aug 2018 00:20

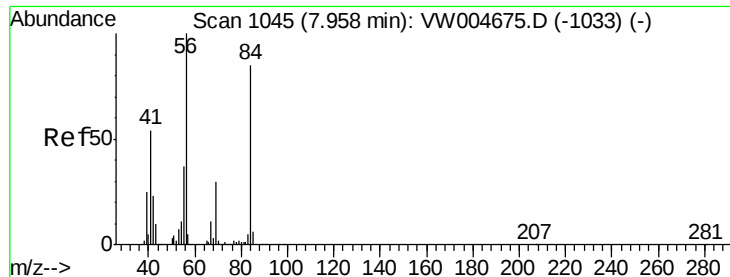
Tgt Ion: 43 Resp: 98084

Ion Ratio Lower Upper

43 100

72 13.2 14.1 42.2#

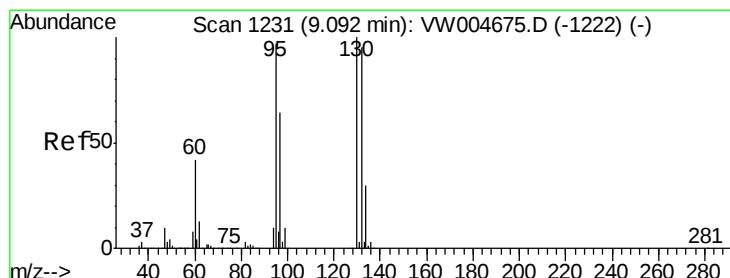
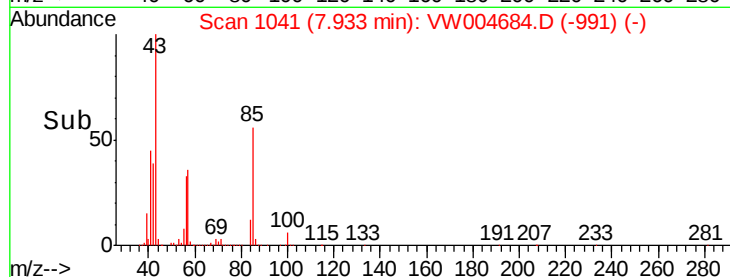
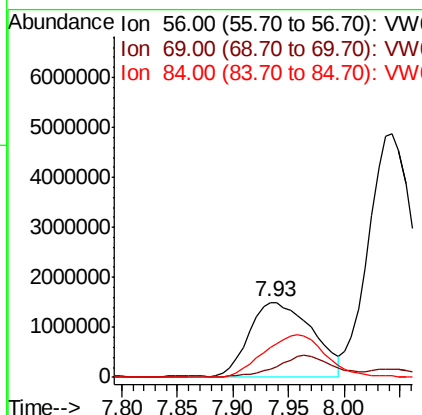
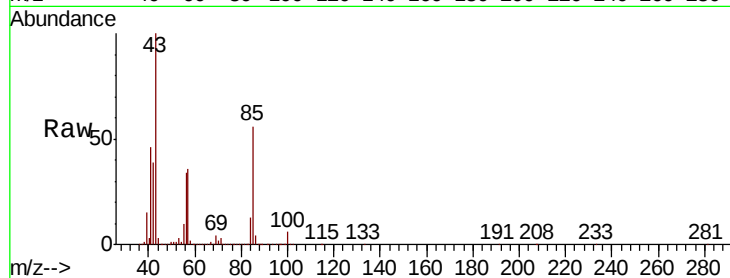




#30
Cvclohexane
Concen: 336.158 ug/L
RT: 7.93 min Scan# 1041
Delta R.T. -0.02 min
Lab File: VW004684.D
Acq: 15 Aug 2018 00:20

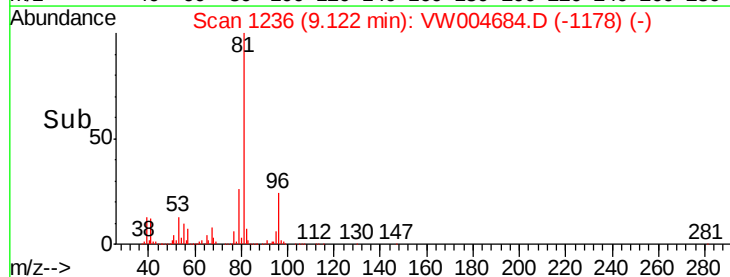
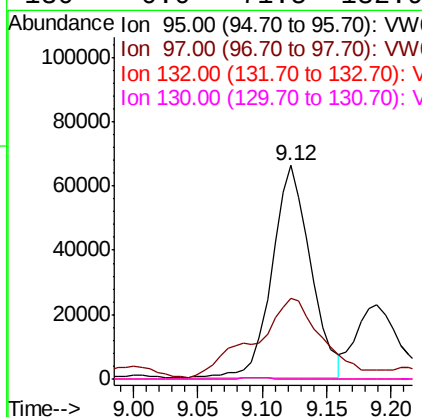
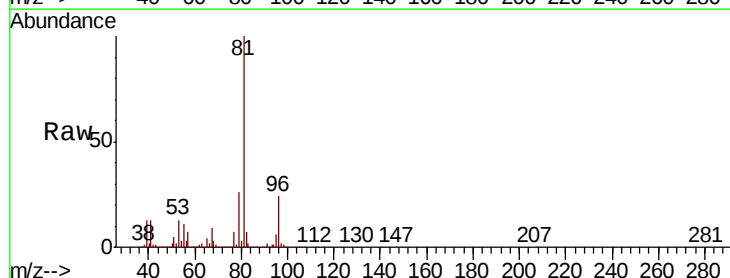
Instrument :
MSVOA_W
ClientSampleId :

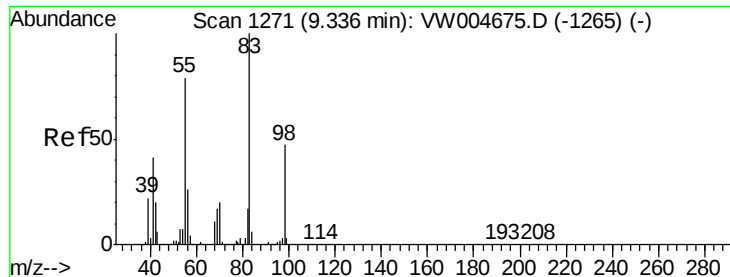
Tot Ion: 56 Resp: 5921612
Ion Ratio Lower Upper
56 100
69 23.4 23.9 35.9#
84 56.1 66.4 99.6#



#35
Trichloroethene
Concen: 12.783 ug/L
RT: 9.12 min Scan# 1236
Delta R.T. 0.02 min
Lab File: VW004684.D
Acq: 15 Aug 2018 00:20

Tgt Ion: 95 Resp: 138021
Ion Ratio Lower Upper
95 100
97 41.1 45.1 83.9#
132 0.2 68.8 127.8#
130 0.0 71.5 132.9#

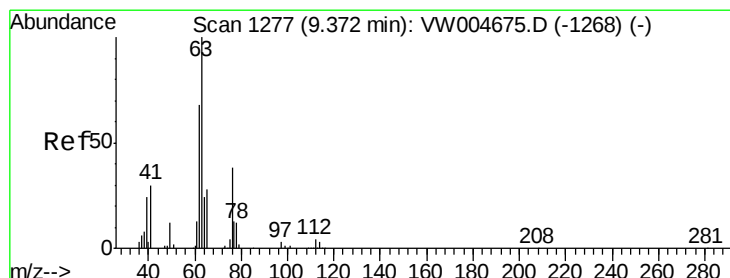
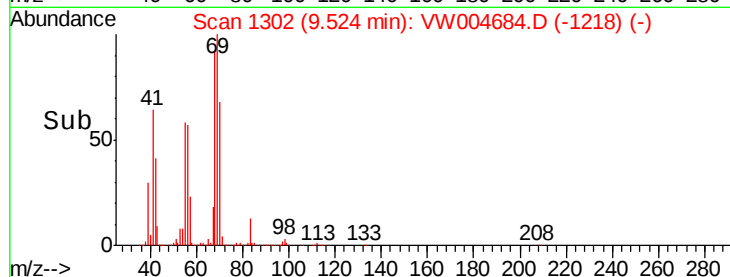
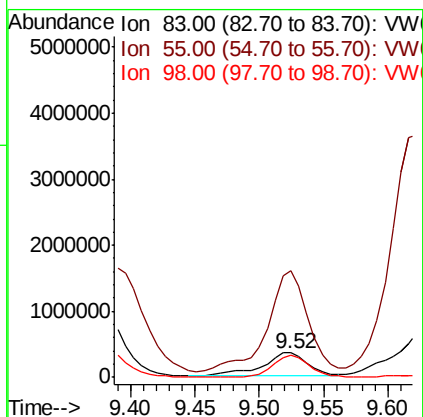
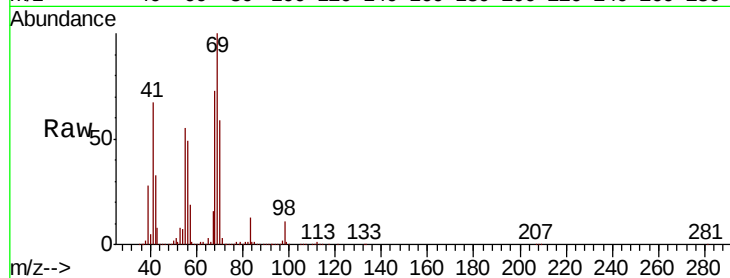




#36
Methylcyclohexane
Concen: 44.323 ug/L
RT: 9.52 min Scan# 1302
Delta R.T. 0.18 min
Lab File: VW004684.D
Acq: 15 Aug 2018 00:20

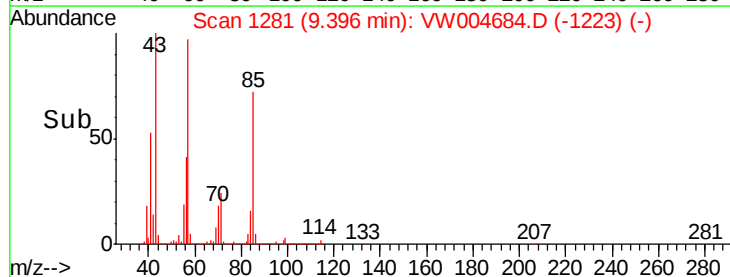
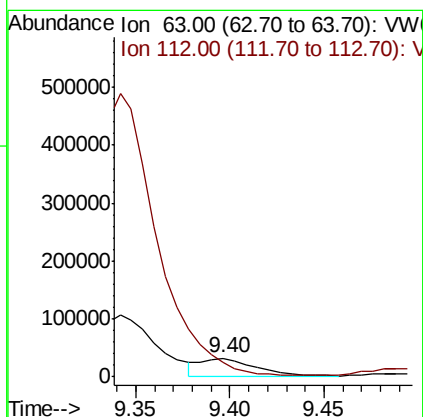
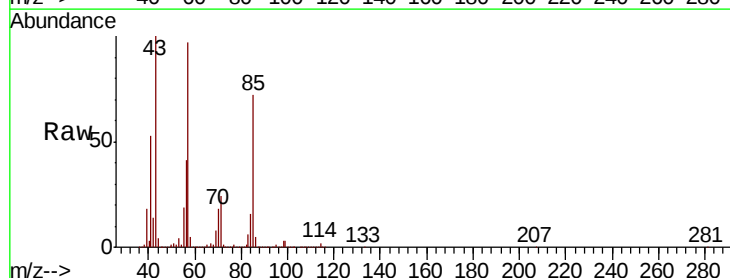
Instrument :
MSVOA_W
ClientSampleId :

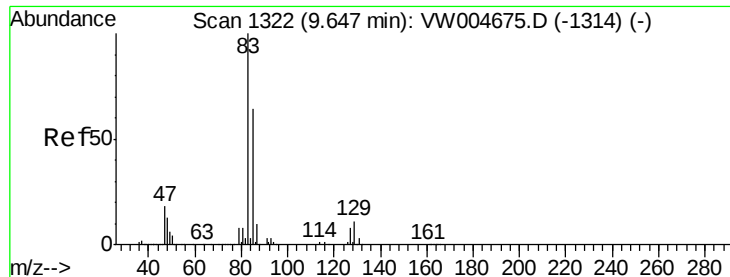
Tot Ion: 83 Resp: 892959
Ion Ratio Lower Upper
83 100
55 371.7 61.4 92.2#
98 71.8 36.2 54.4#



#40
1,2-Dichloropropane
Concen: 5.390 ug/L
RT: 9.40 min Scan# 1281
Delta R.T. 0.02 min
Lab File: VW004684.D
Acq: 15 Aug 2018 00:20

Tgt Ion: 63 Resp: 58680
Ion Ratio Lower Upper
63 100
112 0.0 3.4 5.0#





#41

Bromodichloromethane

Concen: 149.878 ug/L

RT: 9.63 min Scan# 1319

Delta R.T. -0.02 min

Lab File: VW004684.D

Acq: 15 Aug 2018 00:20

Instrument :

MSVOA_W

ClientSampled :

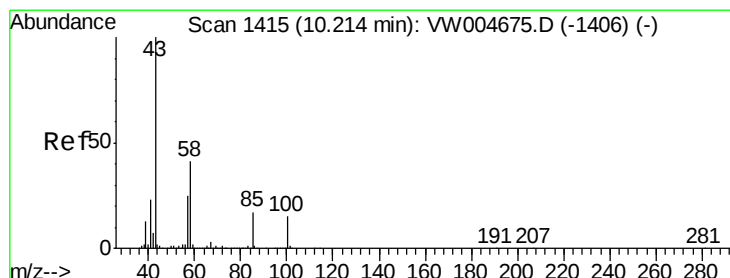
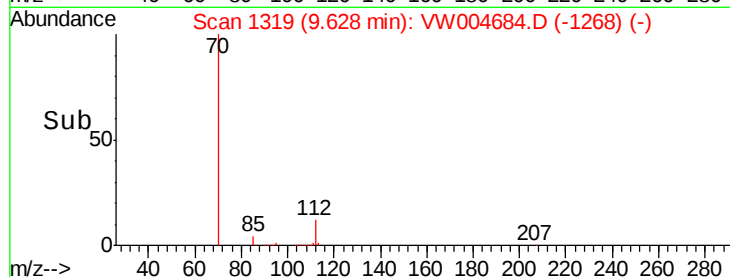
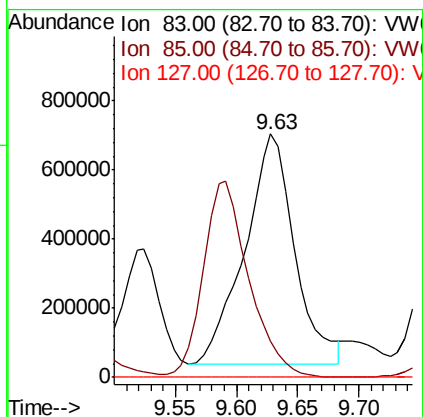
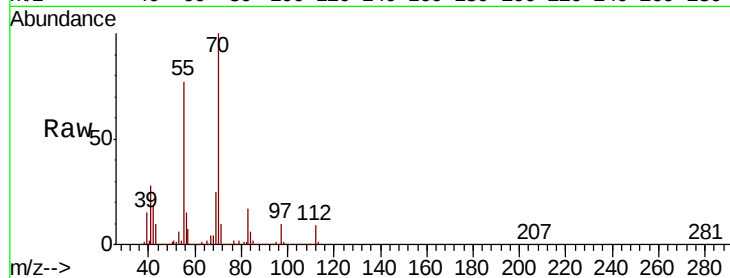
Tot Ion: 83 Resp: 1906453

Ion Ratio Lower Upper

83 100

85 14.7 44.9 83.5#

127 0.0 7.0 10.6#



#43

4-Methyl-2-pentanone

Concen: 1192.543 ug/L

RT: 10.27 min Scan# 1424

Delta R.T. 0.05 min

Lab File: VW004684.D

Acq: 15 Aug 2018 00:20

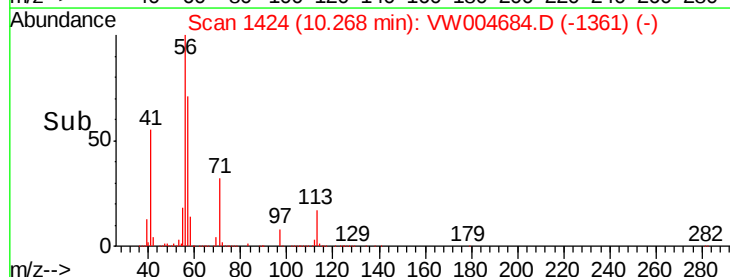
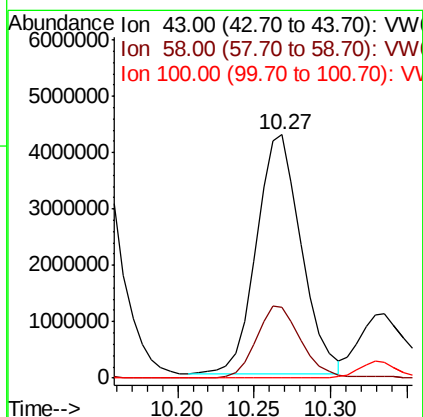
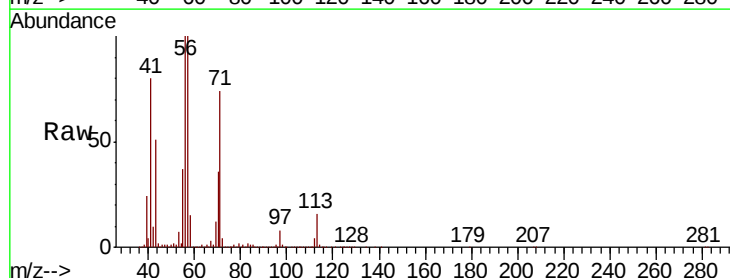
Tgt Ion: 43 Resp: 8596670

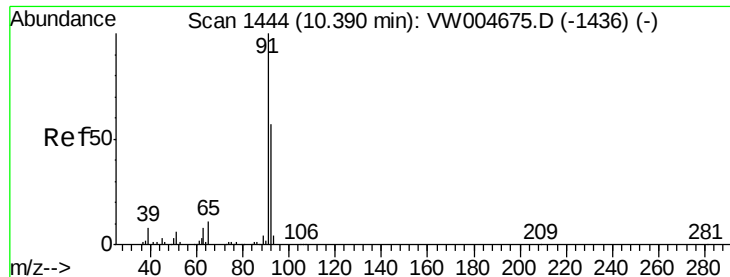
Ion Ratio Lower Upper

43 100

58 29.6 31.8 47.8#

100 0.0 12.2 18.4#





#44

Toluene

Concen: 5.072 ug/L

RT: 10.40 min Scan# 1445

Delta R.T. 0.01 min

Lab File: VW004684.D

Acq: 15 Aug 2018 00:20

Instrument :

MSVOA_W

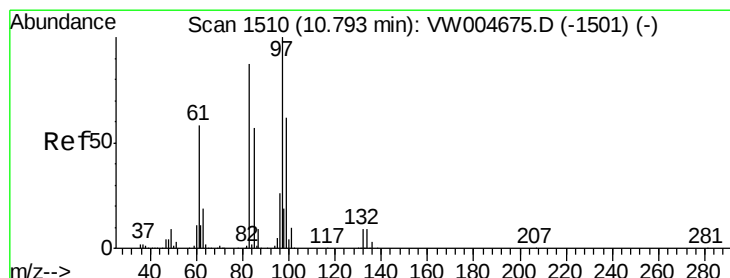
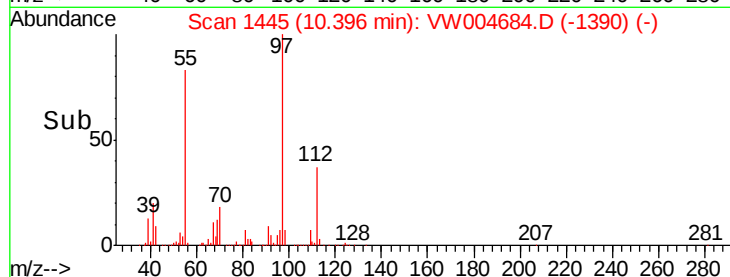
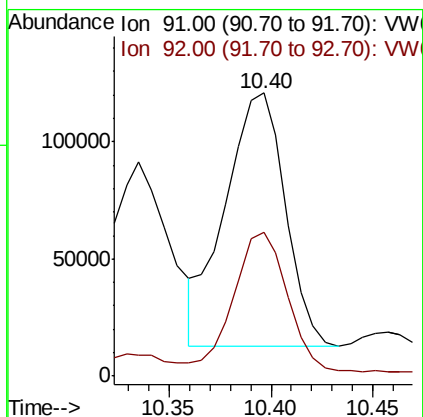
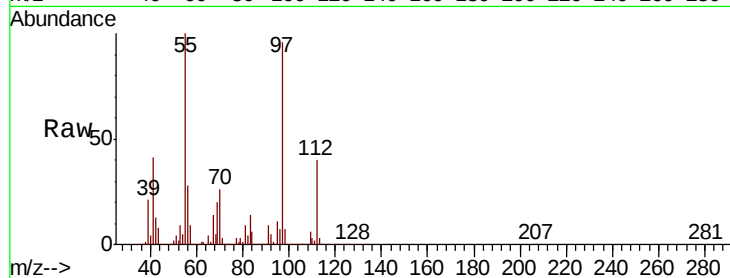
ClientSampled :

Tot Ion: 91 Resp: 220352

Ion Ratio Lower Upper

91 100

92 50.8 40.3 74.8



#46

1,1,2-Trichloroethane

Concen: 1505.105 ug/L

RT: 10.77 min Scan# 1507

Delta R.T. -0.02 min

Lab File: VW004684.D

Acq: 15 Aug 2018 00:20

Tgt Ion: 97 Resp: 12384898

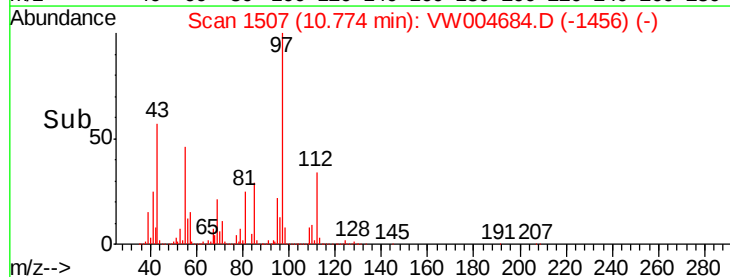
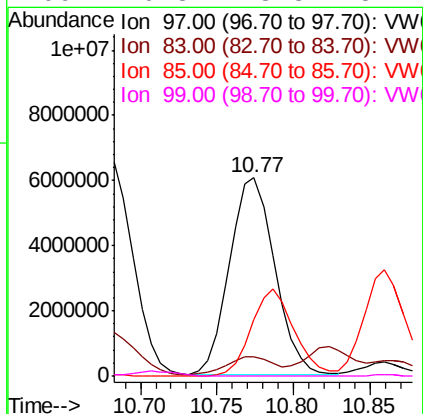
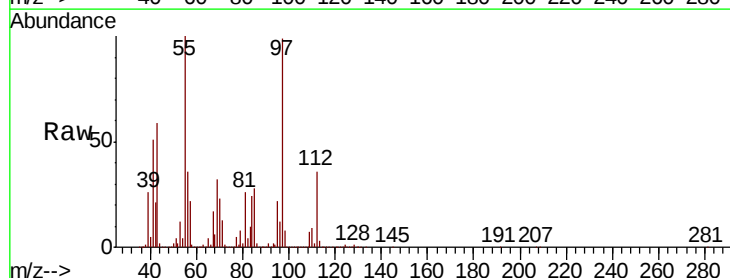
Ion Ratio Lower Upper

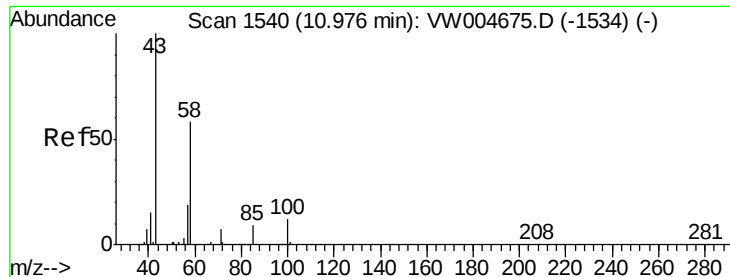
97 100

83 9.9 60.6 112.6#

85 28.6 37.9 70.5#

99 0.3 43.8 81.4#

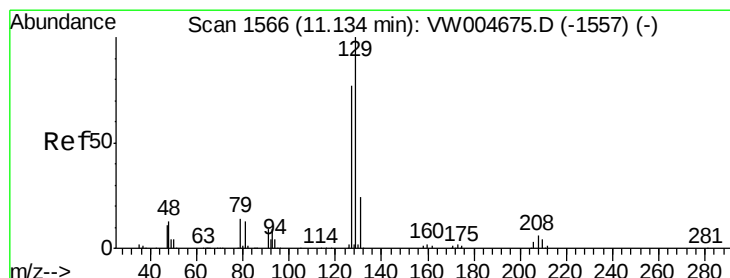
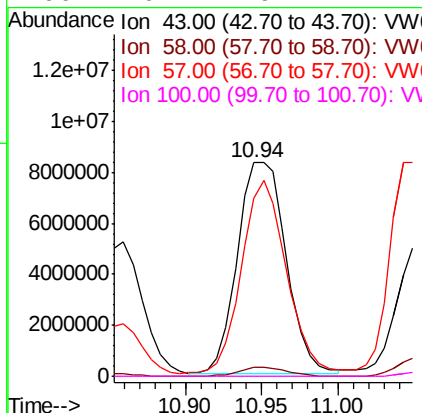
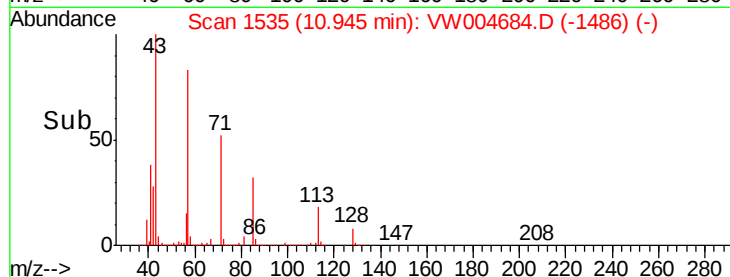
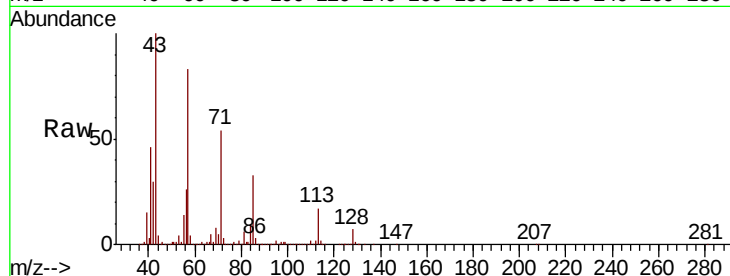




#49
2-Hexanone
Concen: 3476.686 ug/L
RT: 10.94 min Scan# 1535
Delta R.T. -0.03 min
Lab File: VW004684.D
Acq: 15 Aug 2018 00:20

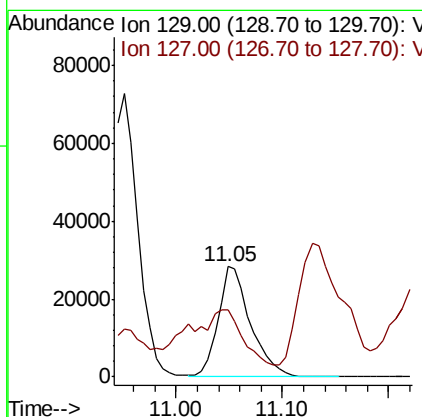
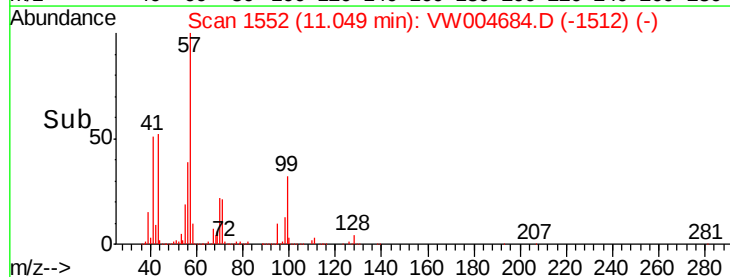
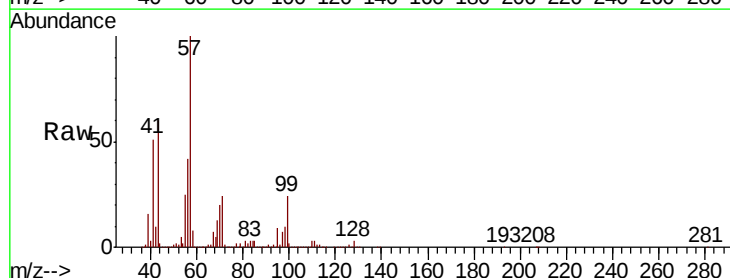
Instrument :
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ClientSampleId :

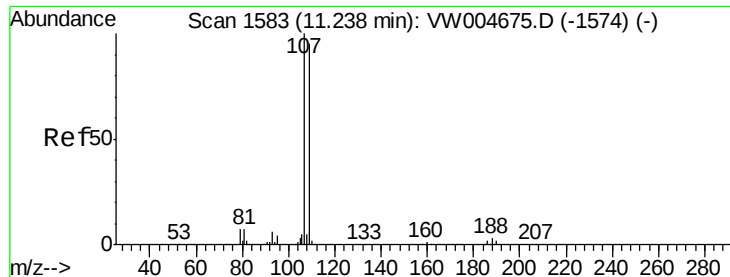
Tot Ion: 43 Resp:18253049
Ion Ratio Lower Upper
43 100
58 4.0 44.4 66.6#
57 84.2 14.8 22.2#
100 0.2 9.4 14.2#



#50
Dibromochloromethane
Concen: 6.433 ug/L
RT: 11.05 min Scan# 1552
Delta R.T. -0.09 min
Lab File: VW004684.D
Acq: 15 Aug 2018 00:20

Tgt Ion:129 Resp: 59538
Ion Ratio Lower Upper
129 100
127 60.3 53.3 98.9





#51

1,2-Dibromoethane

Concen: 7.388 ug/L

RT: 11.21 min Scan# 1579

Delta R.T. -0.02 min

Lab File: VW004684.D

Acq: 15 Aug 2018 00:20

Instrument :

MSVOA_W

ClientSampleId :

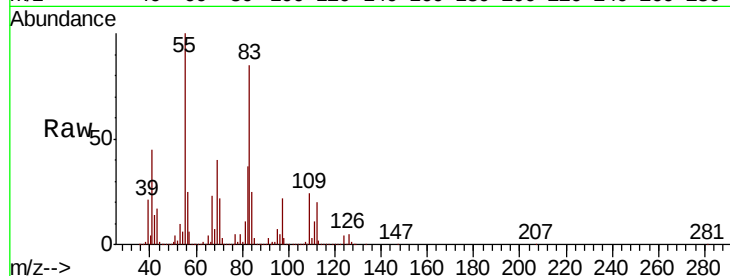
Tot Ion:107 Resp: 58607

Ion Ratio Lower Upper

107 100

109 3655.9 64.5 119.9#

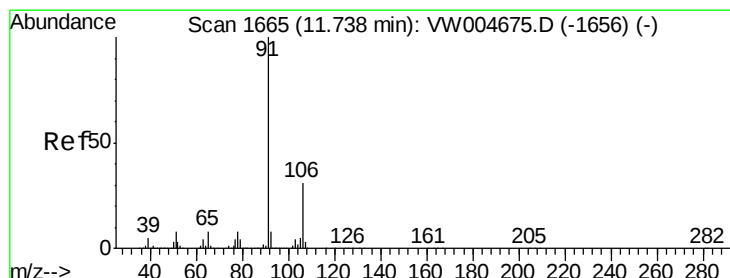
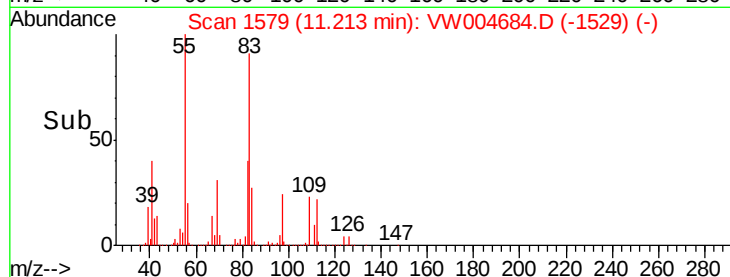
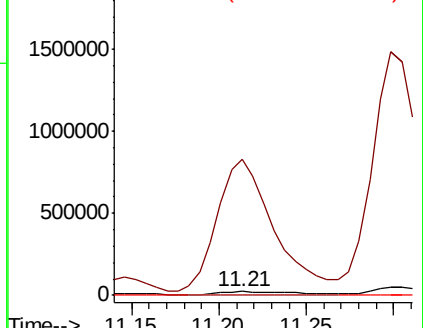
188 0.0 2.8 4.2#



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#53

Ethylbenzene

Concen: 3.736 ug/L

RT: 11.65 min Scan# 1650

Delta R.T. -0.09 min

Lab File: VW004684.D

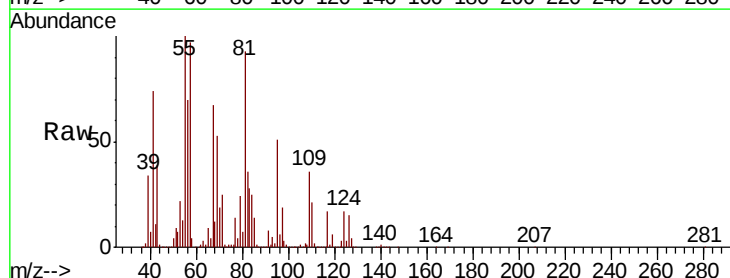
Acq: 15 Aug 2018 00:20

Tgt Ion: 91 Resp: 180785

Ion Ratio Lower Upper

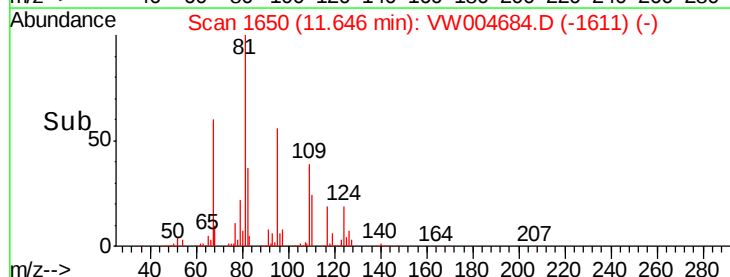
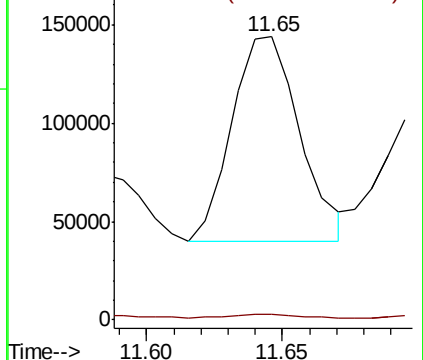
91 100

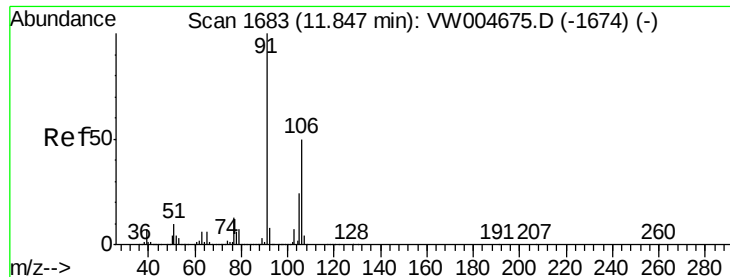
106 1.8 22.0 40.8#



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V





#54

m.p-Xylene

Concen: 989.331 ug/L

RT: 11.84 min Scan# 1682

Delta R.T. -0.00 min

Lab File: VW004684.D

Acq: 15 Aug 2018 00:20

Instrument :

MSVOA_W

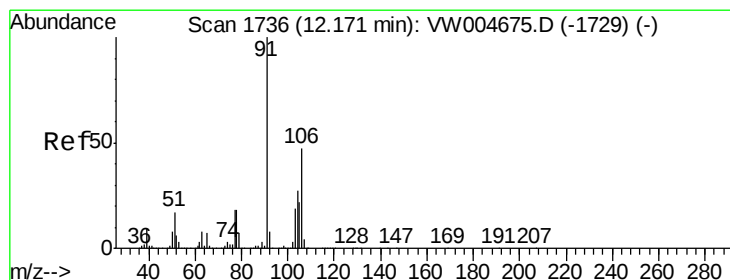
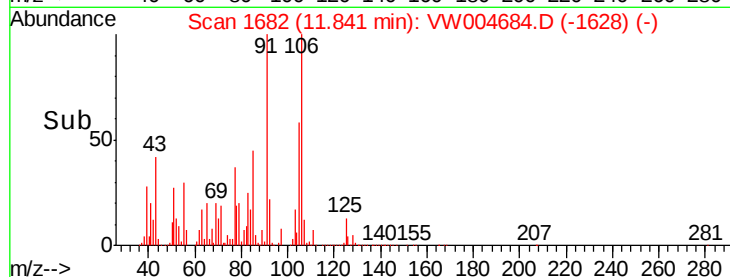
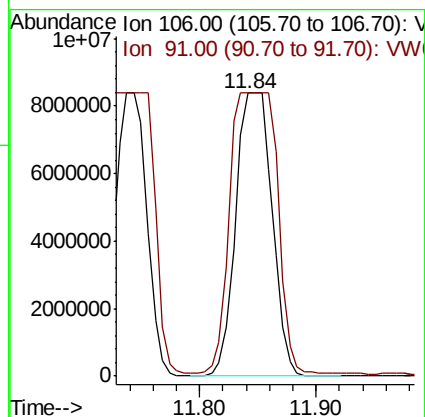
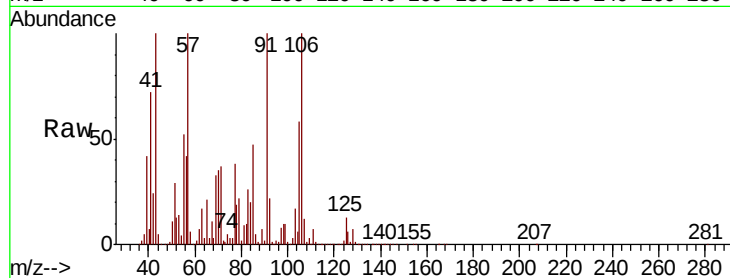
ClientSampleId :

Tot Ion:106 Resp:18195129

Ion Ratio Lower Upper

106 100

91 100.0 139.2 258.4#



#55

o-xylene

Concen: 47.525 ug/L

RT: 12.18 min Scan# 1737

Delta R.T. 0.01 min

Lab File: VW004684.D

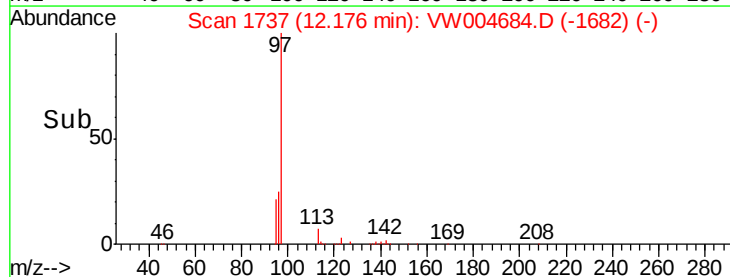
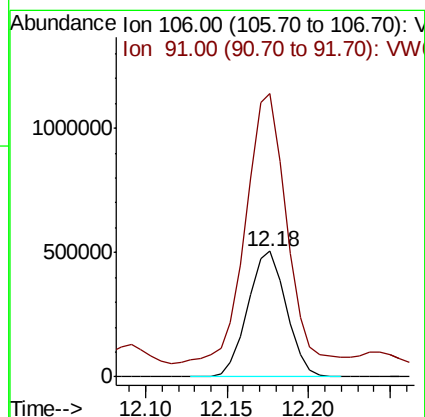
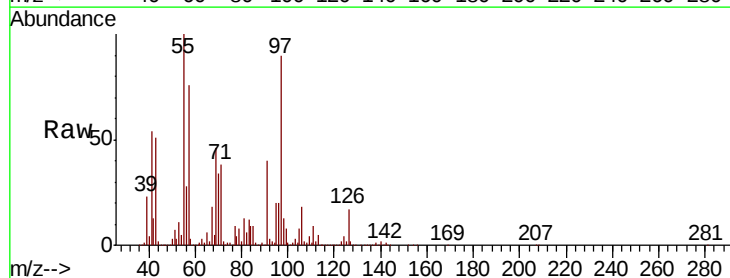
Acq: 15 Aug 2018 00:20

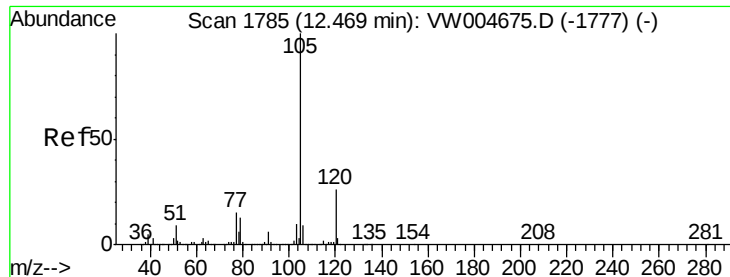
Tgt Ion:106 Resp: 826107

Ion Ratio Lower Upper

106 100

91 225.6 150.1 278.7





#57

Isopropylbenzene

Concen: 270.500 ug/L

RT: 12.48 min Scan# 1786

Delta R.T. 0.01 min

Lab File: VW004684.D

Acq: 15 Aug 2018 00:20

Instrument :

MSVOA_W

ClientSampleId :

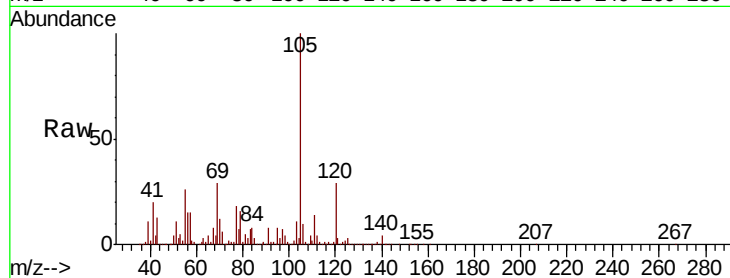
Tot Ion:105 Resp:12734064

Ion Ratio Lower Upper

105 100

120 27.8 21.2 31.8

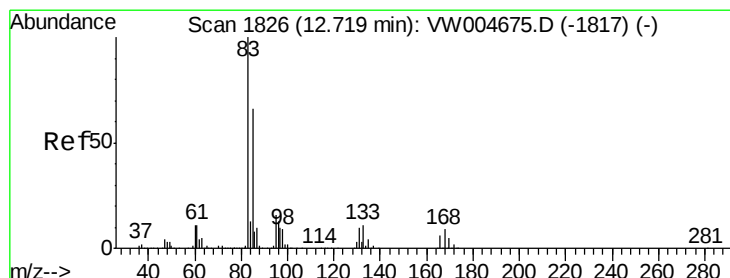
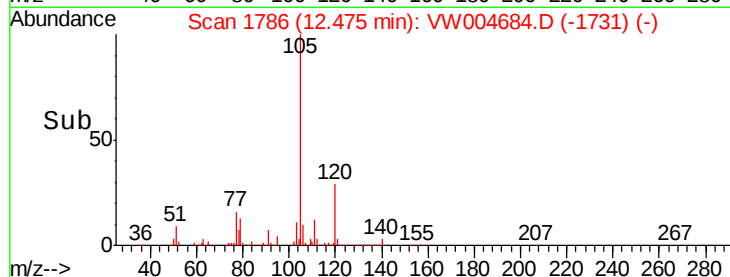
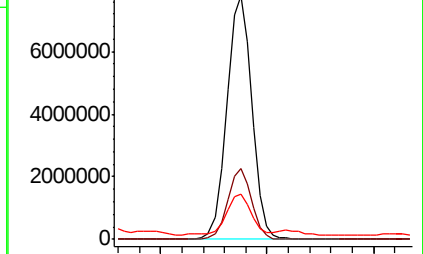
77 17.9 12.1 18.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 46.603 ug/L

RT: 12.71 min Scan# 1824

Delta R.T. -0.01 min

Lab File: VW004684.D

Acq: 15 Aug 2018 00:20

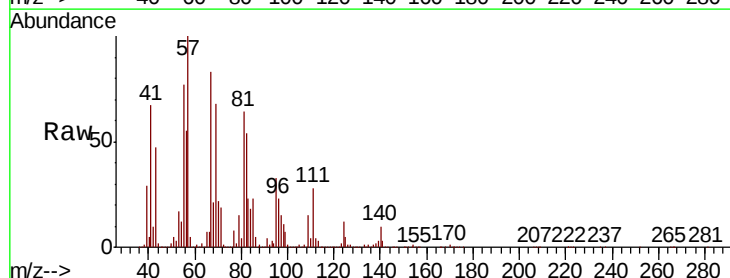
Tgt Ion: 83 Resp: 528810

Ion Ratio Lower Upper

83 100

85 99.1 44.4 82.5#

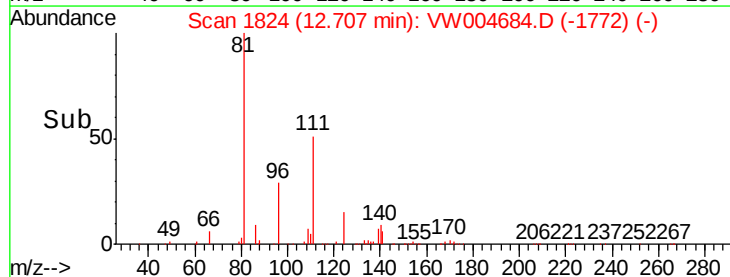
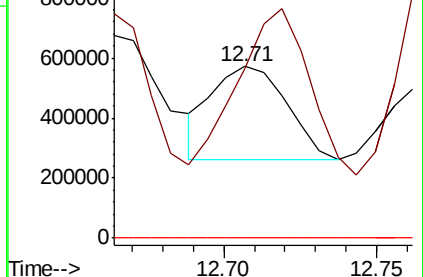
131 0.3 8.2 12.4#

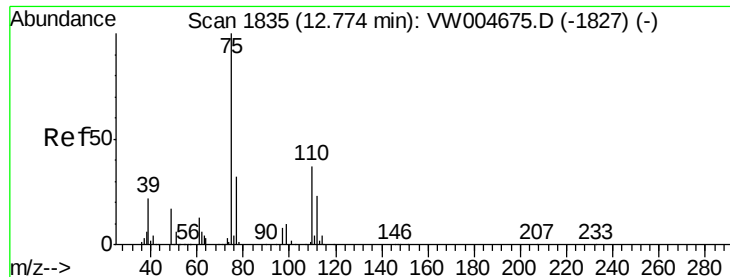


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 38.503 ug/L

RT: 12.82 min Scan# 1842

Delta R.T. 0.04 min

Lab File: VW004684.D

Acq: 15 Aug 2018 00:20

Instrument :

MSVOA_W

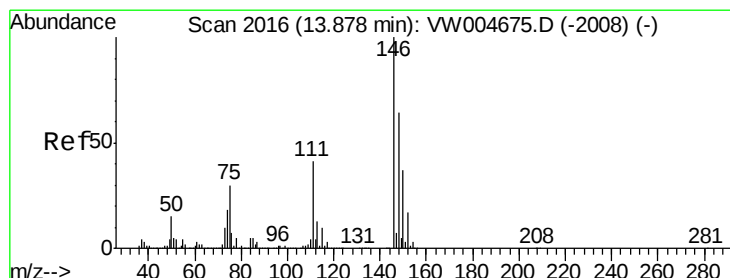
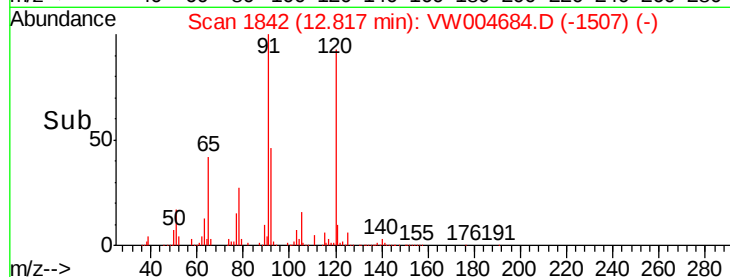
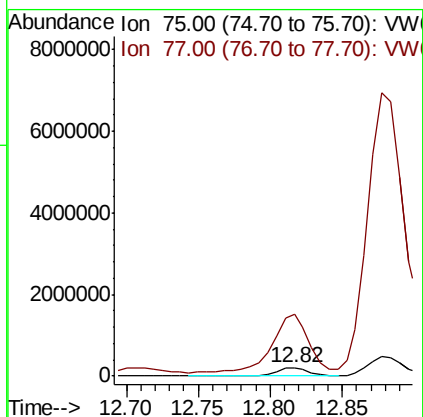
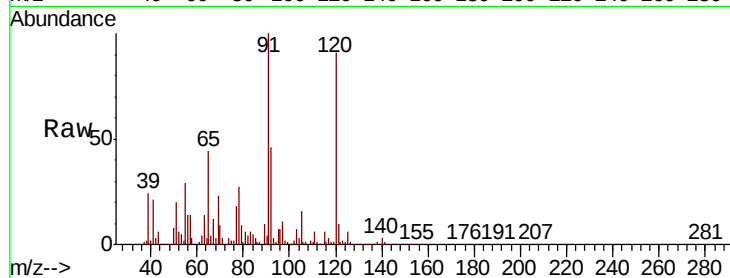
ClientSampleId :

Tot Ion: 75 Resp: 321651

Ion Ratio Lower Upper

75 100

77 775.3 25.8 38.6#



#65

1,2-Dichlorobenzene

Concen: 3.436 ug/L

RT: 13.88 min Scan# 2017

Delta R.T. 0.01 min

Lab File: VW004684.D

Acq: 15 Aug 2018 00:20

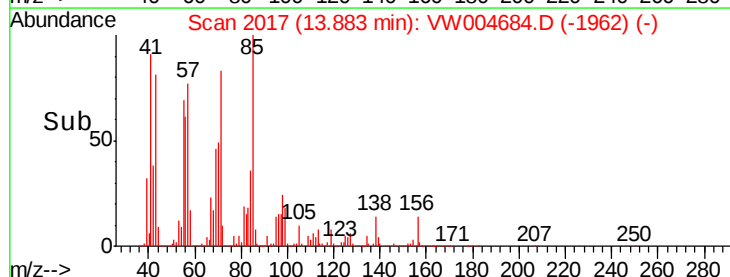
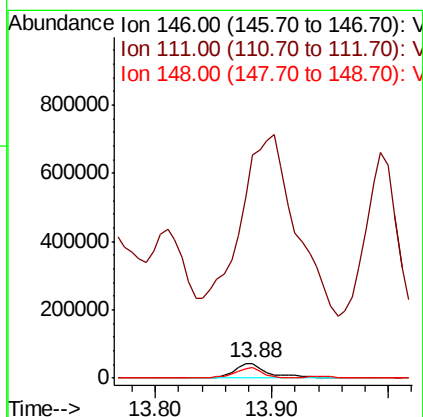
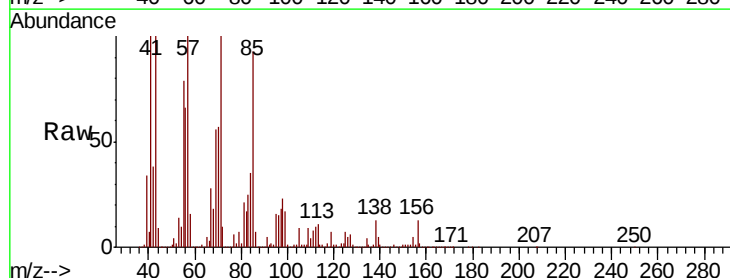
Tgt Ion: 146 Resp: 84626

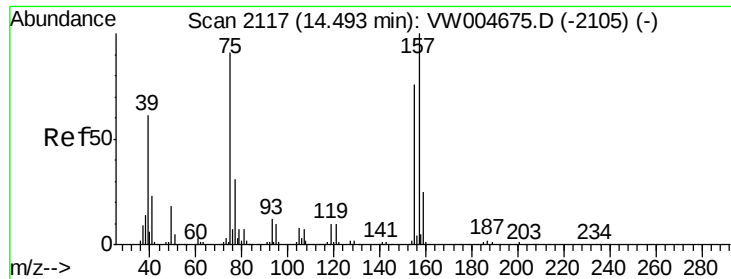
Ion Ratio Lower Upper

146 100

111 1484.7 32.9 49.3#

148 68.3 50.7 76.1

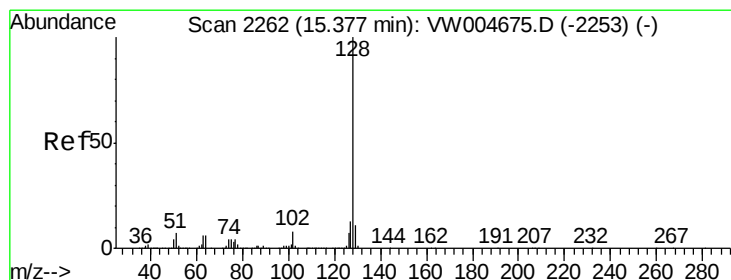
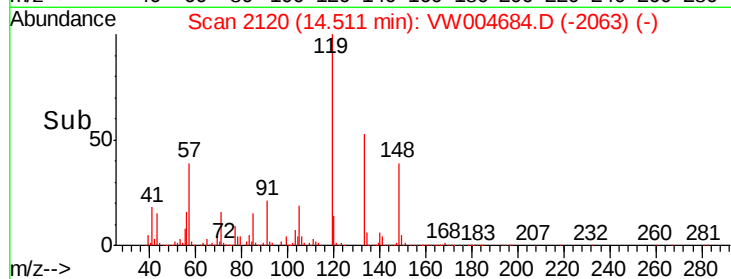
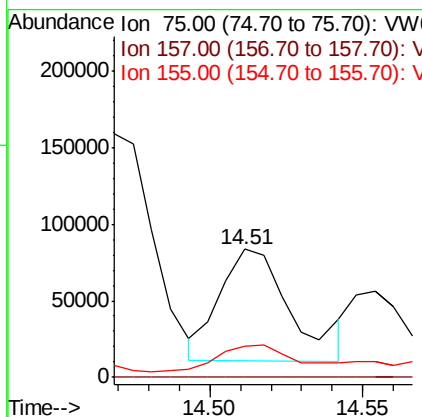
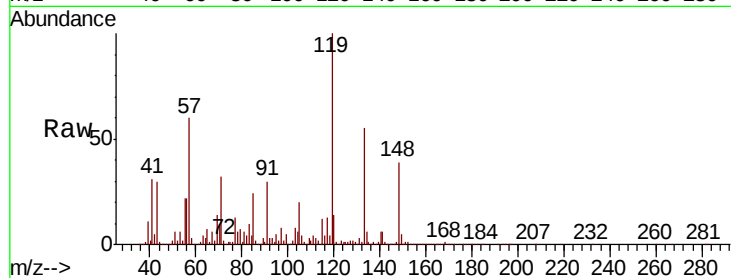




#66
 1,2-Dibromo-3-chloropropane
 Concen: 56.584 ug/L
 RT: 14.51 min Scan# 2120
 Delta R.T. 0.02 min
 Lab File: VW004684.D
 Acq: 15 Aug 2018 00:20

Instrument :
 MSVOA_W
 ClientSampled :

Tot Ion: 75 Resp: 117428
 Ion Ratio Lower Upper
 75 100
 157 0.4 81.8 122.8#
 155 24.3 65.4 98.0#



#69
 Naphthalene
 Concen: 3.973 ug/L
 RT: 15.29 min Scan# 2247
 Delta R.T. -0.09 min
 Lab File: VW004684.D
 Acq: 15 Aug 2018 00:20

Tgt Ion: 128 Resp: 133044
 Ion Ratio Lower Upper
 128 100
 129 103.3 8.8 13.2#
 127 51.3 10.6 15.8#

