

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW102818\
 Data File : VW006407.D
 Acq On : 26 Oct 2018 15:14
 Operator : SY/AP
 Sample : J5635-26
 Misc : 4.88G/10ML/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 A40G2

Quant Time: Oct 26 23:48:50 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM100918S.M
 Quant Title : VOC Analysis
 QLast Update : Fri Oct 26 23:43:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	294624	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	211978	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.86	152	22481	25.00	ug/L	0.29

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	65147	19.61	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	78.44%
7) Chloroethane-d5	2.89	69	66158	23.13	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	92.52%
10) 1,1-Dichloroethene-d2	4.01	63	97283	15.25	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	61.00%
20) 2-Butanone-d5	7.09	46	47589	43.21	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	86.42%
24) Chloroform-d	7.65	84	149921	23.49	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	93.96%
26) 1,2-Dichloroethane-d4	8.31	65	83616	23.68	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	94.72%
29) Benzene-d6	8.27	84	291158	30.25	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	121.00%
33) 1,2-Dichloropropane-d6	9.27	67	85017	29.27	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	117.08%
37) Toluene-d8	10.33	98	254430	26.44	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	105.76%
38) trans-1,3-Dichloropropene-	10.58	79	30175	21.38	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	85.52%
39) 2-Hexanone-d5	10.93	63	37775	53.82	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	107.64%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	45947	16.27	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	65.08%
61) 1,2-Dichlorobenzene-d4	13.86	152	24413	31.68	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	126.72%#

Target Compounds

					Qvalue
13) Acetone	4.14	43	17490	15.719 ug/L	97
14) Carbon disulfide	4.37	76	14294	1.293 ug/L #	95
21) 2-Butanone	7.19	43	4368	2.954 ug/L	76
34) Benzene	8.33	78	16991	1.561 ug/L	100
35) Trichloroethene	8.84	95	8616	2.814 ug/L #	2
36) Methylcyclohexane	9.34	83	3377	0.602 ug/L	94
40) 1,2-Dichloropropane	9.27	63	9987	3.700 ug/L #	88
42) cis-1,3-Dichloropropene	10.04	75	2372	0.538 ug/L #	81
44) Toluene	10.39	91	19522	1.598 ug/L	97
46) 1,1,2-Trichloroethane	10.76	97	1685	0.750 ug/L #	24
49) 2-Hexanone	10.93	43	6604	4.143 ug/L #	57
52) Chlorobenzene	11.66	112	38063	4.603 ug/L	98
53) Ethylbenzene	11.74	91	31626	2.223 ug/L	98
54) m,p-Xylene	11.84	106	45279	8.120 ug/L	96
55) o-xylene	12.17	106	66222	12.438 ug/L	98
56) Styrene	12.18	104	5063	0.552 ug/L #	1
57) Isopropylbenzene	12.47	105	658978	44.484 ug/L	98

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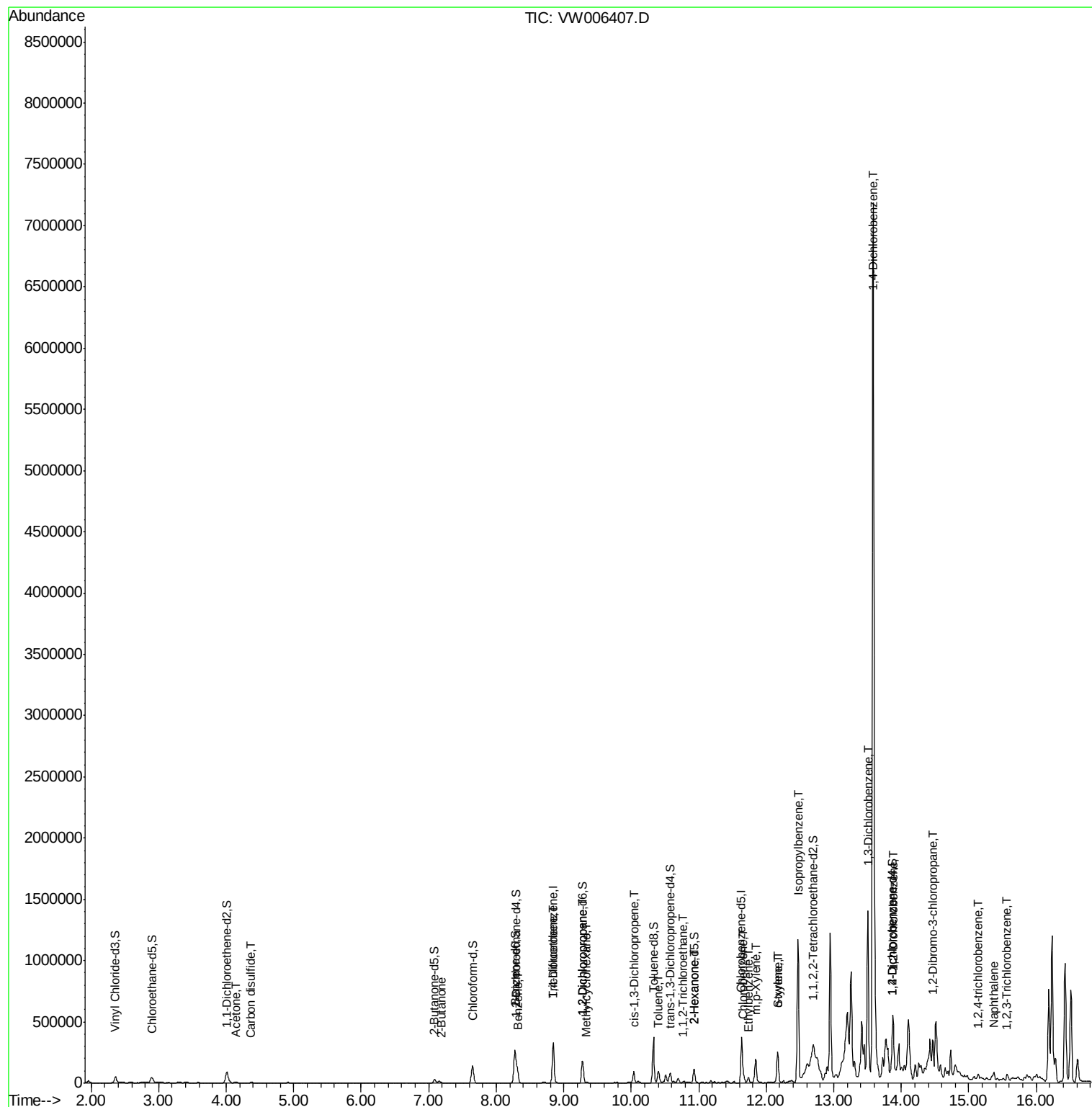
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,3-Dichlorobenzene	13.51	146	510642	369.879	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	3036971	2184.487	ug/L	99
65) 1,2-Dichlorobenzene	13.88	146	107062	84.298	ug/L	99
66) 1,2-Dibromo-3-chloropropan	14.46	75	1134	11.093	ug/L #	1
68) 1,2,4-trichlorobenzene	15.14	180	16273	17.149	ug/L #	95
69) Naphthalene	15.38	128	60813	31.653	ug/L	97
70) 1,2,3-Trichlorobenzene	15.57	180	1283	1.505	ug/L #	38

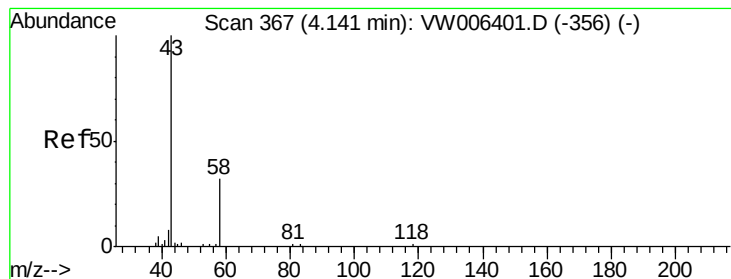
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_W\DATA\VW102818\
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Response via : Initial Calibration





#13

Acetone

Concen: 15.719 ug/L

RT: 4.14 min Scan# 367

Delta R.T. 0.00 min

Lab File: VW006407.D

Acq: 26 Oct 2018 15:14

Instrument :

MSVOA_W

ClientSampleId :

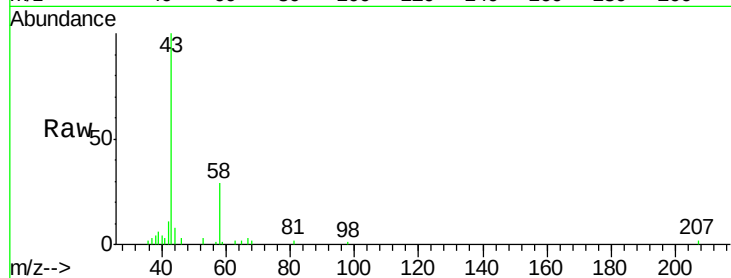
A40G2

Tgt Ion: 43 Resp: 17490

Ion Ratio Lower Upper

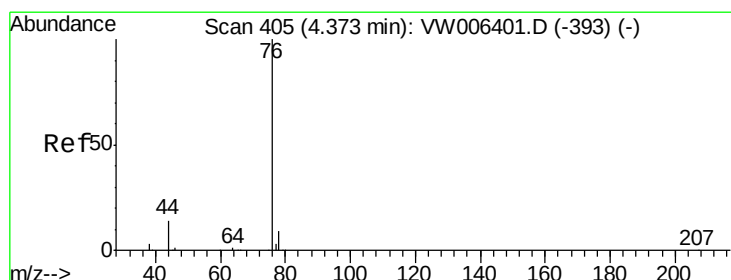
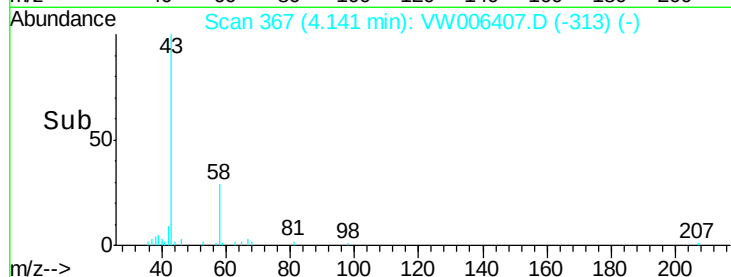
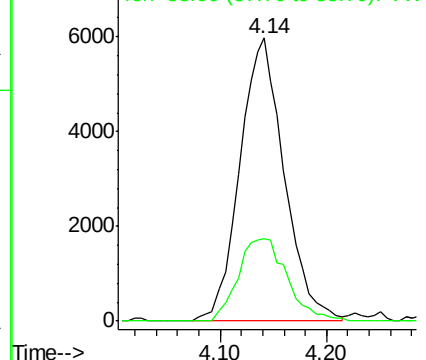
43 100

58 32.0 0.0 61.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 1.293 ug/L

RT: 4.37 min Scan# 404

Delta R.T. -0.01 min

Lab File: VW006407.D

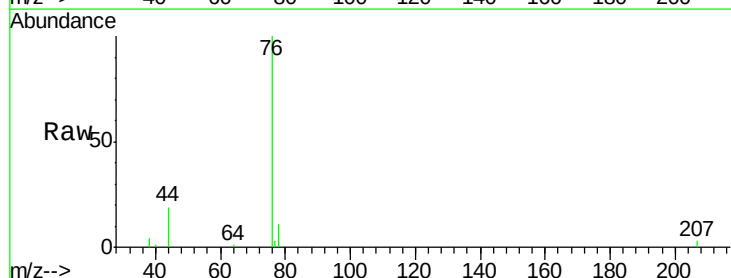
Acq: 26 Oct 2018 15:14

Tgt Ion: 76 Resp: 14294

Ion Ratio Lower Upper

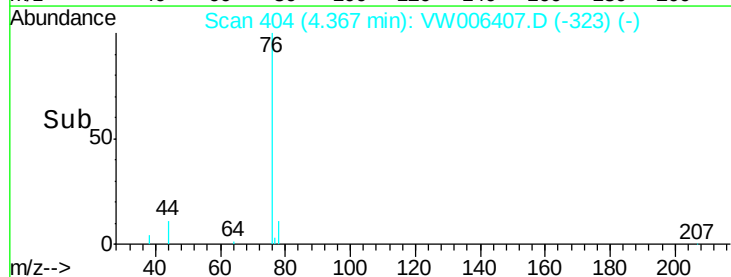
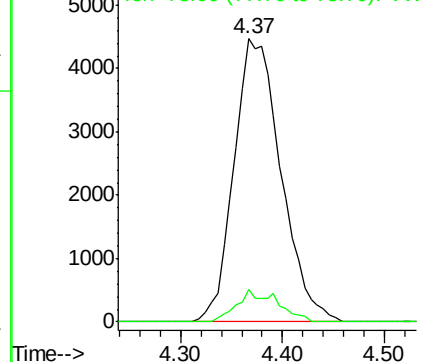
76 100

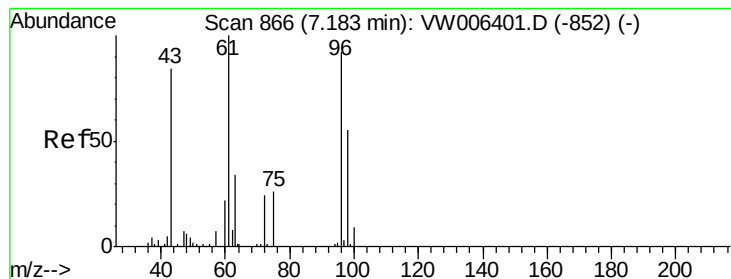
78 11.4 7.6 11.4#



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW





#21

2-Butanone

Concen: 2.954 ug/L

RT: 7.19 min Scan# 867

Delta R.T. 0.01 min

Lab File: VW006407.D

Acq: 26 Oct 2018 15:14

Instrument :

MSVOA_W

ClientSampleId :

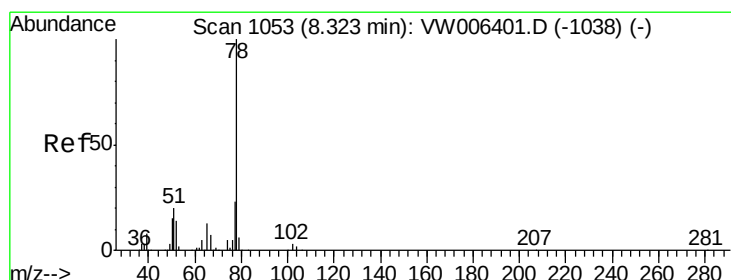
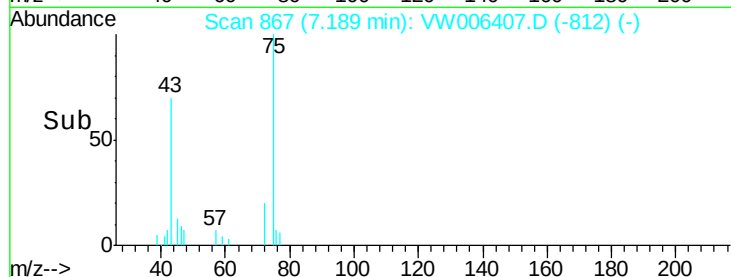
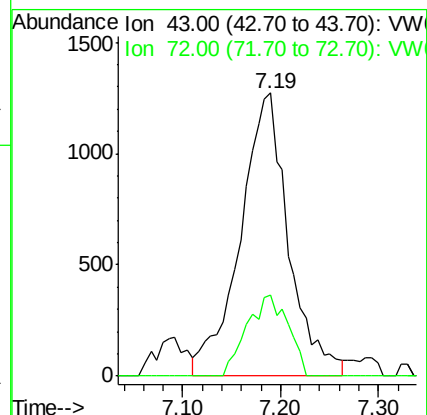
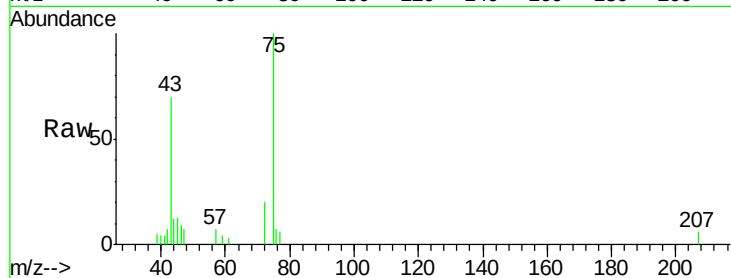
A40G2

Tgt Ion: 43 Resp: 4368

Ion Ratio Lower Upper

43 100

72 15.2 13.8 41.4



#34

Benzene

Concen: 1.561 ug/L

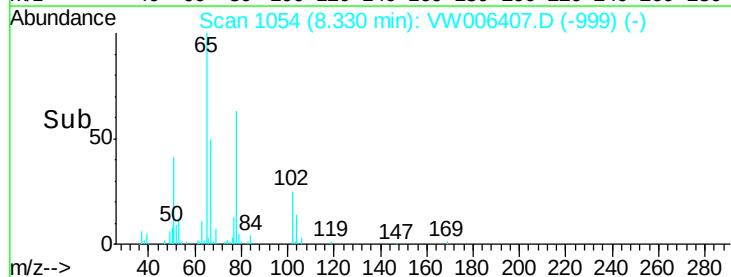
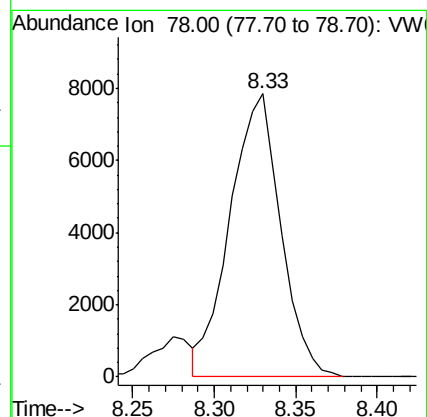
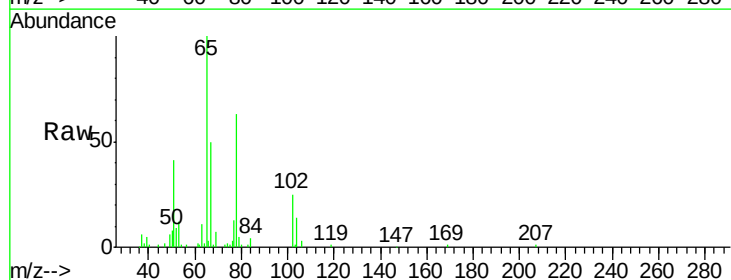
RT: 8.33 min Scan# 1054

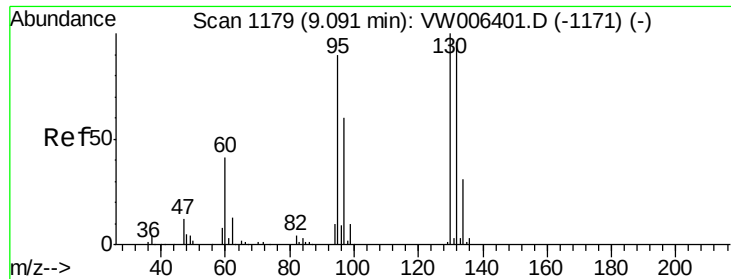
Delta R.T. 0.01 min

Lab File: VW006407.D

Acq: 26 Oct 2018 15:14

Tgt Ion: 78 Resp: 16991





#35

Trichloroethene

Concen: 2.814 ug/L

RT: 8.84 min Scan# 1138

Delta R.T. -0.25 min

Lab File: VW006407.D

Acq: 26 Oct 2018 15:14

Instrument :

MSVOA_W

ClientSampleId :

A40G2

Tgt Ion: 95 Resp: 8616

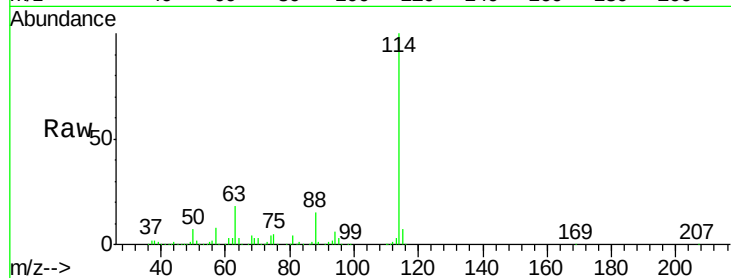
Ion Ratio Lower Upper

95 100

97 0.0 45.8 85.0#

132 0.0 72.9 135.3#

130 0.0 75.8 140.8#

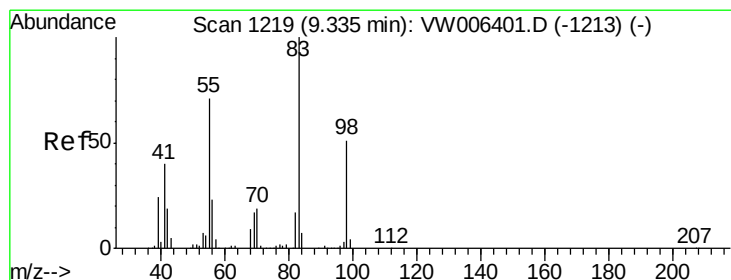
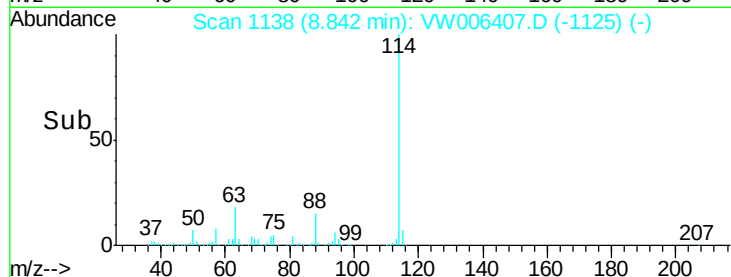
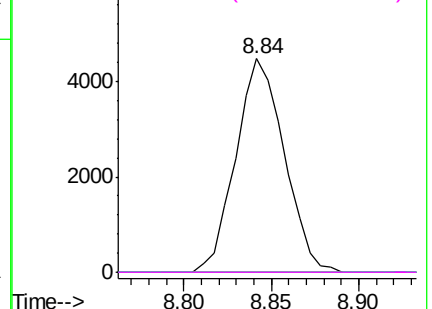


Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#36

Methylcyclohexane

Concen: 0.602 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. 0.00 min

Lab File: VW006407.D

Acq: 26 Oct 2018 15:14

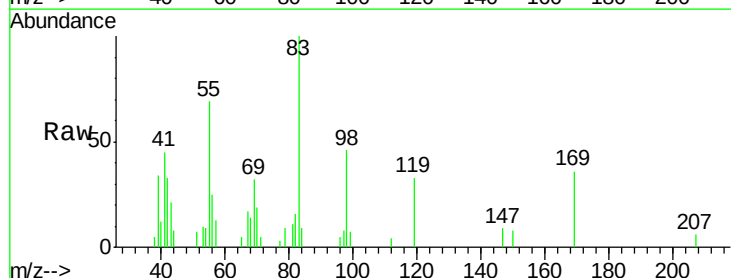
Tgt Ion: 83 Resp: 3377

Ion Ratio Lower Upper

83 100

55 79.3 57.1 85.7

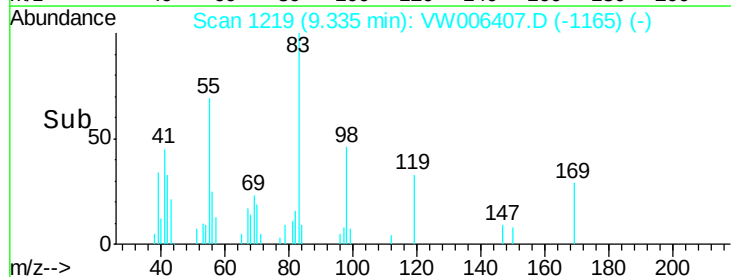
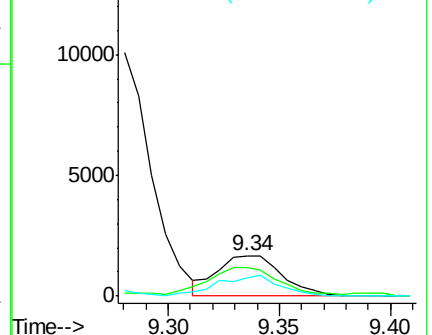
98 49.6 38.9 58.3

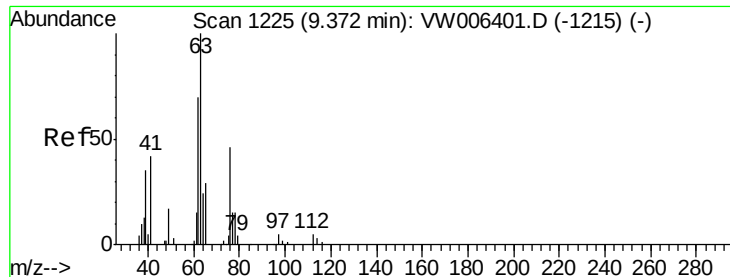


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#40

1,2-Dichloropropane

Concen: 3.700 ug/L

RT: 9.27 min Scan# 1209

Delta R.T. -0.10 min

Lab File: VW006407.D

Acq: 26 Oct 2018 15:14

Instrument :

MSVOA_W

ClientSampled :

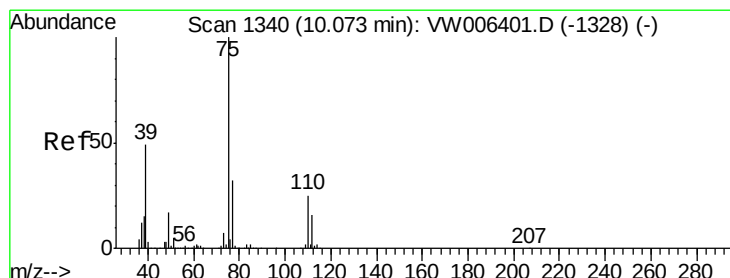
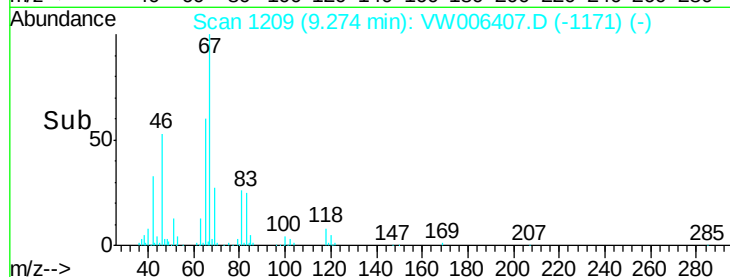
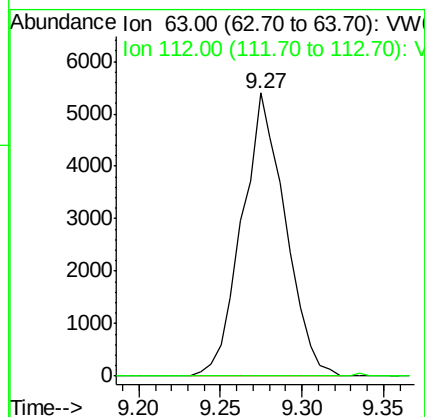
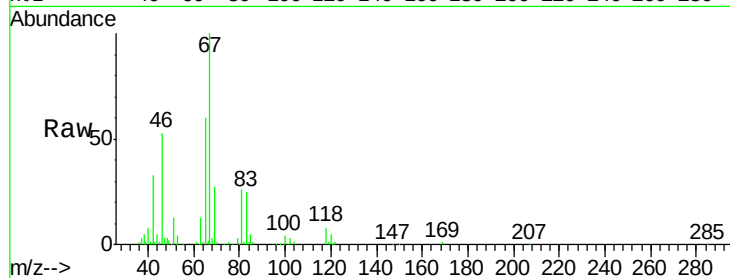
A40G2

Tgt Ion: 63 Resp: 9987

Ion Ratio Lower Upper

63 100

112 0.3 3.5 5.3#



#42

cis-1,3-Dichloropropene

Concen: 0.538 ug/L

RT: 10.04 min Scan# 1334

Delta R.T. -0.04 min

Lab File: VW006407.D

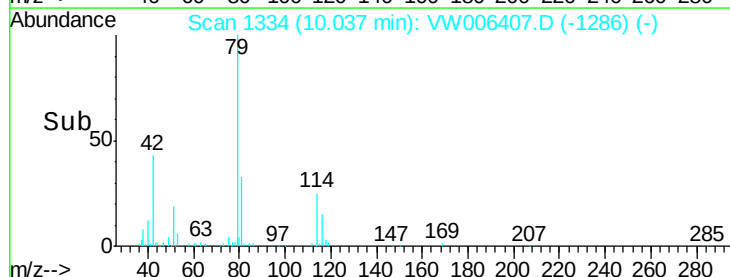
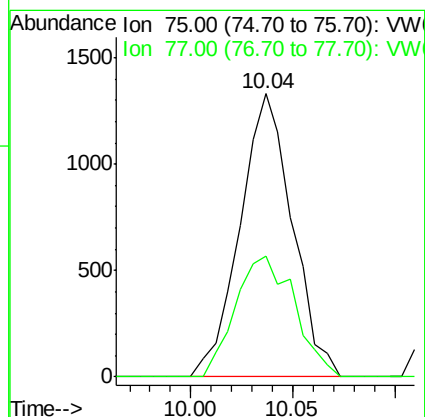
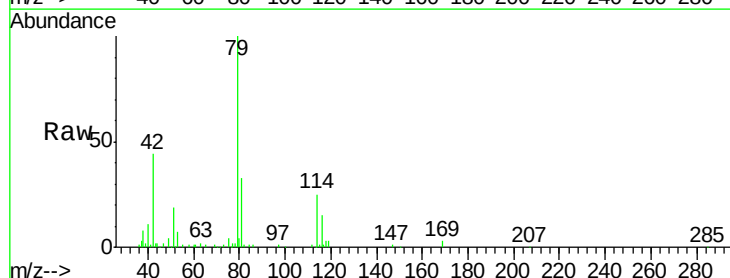
Acq: 26 Oct 2018 15:14

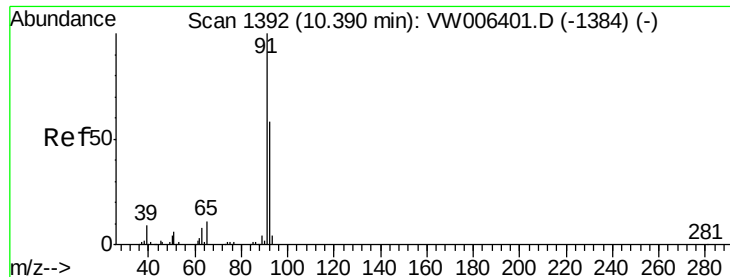
Tgt Ion: 75 Resp: 2372

Ion Ratio Lower Upper

75 100

77 42.7 22.6 42.0#





#44

Toluene

Concen: 1.598 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW006407.D

Acq: 26 Oct 2018 15:14

Instrument :

MSVOA_W

ClientSampled :

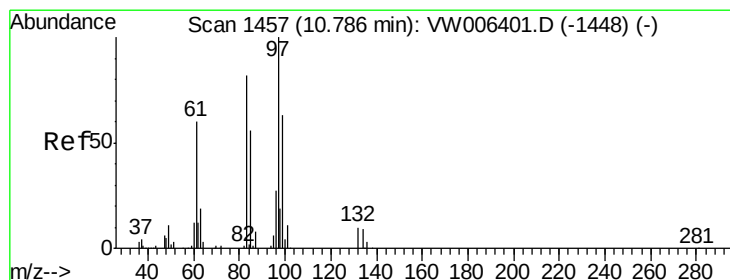
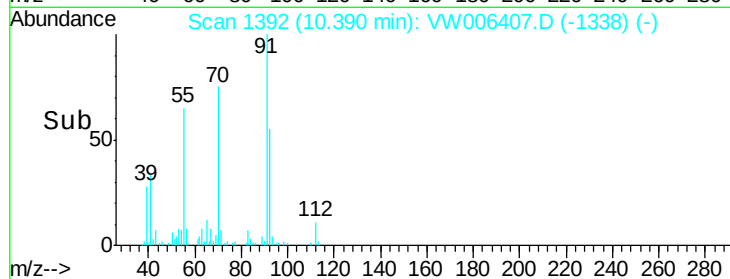
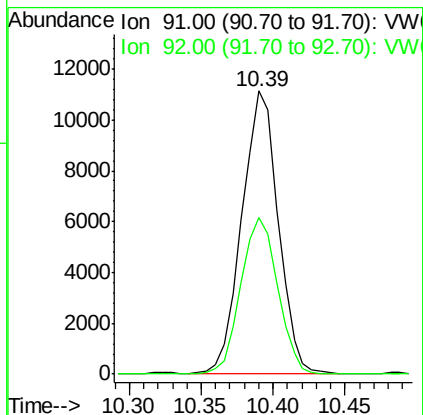
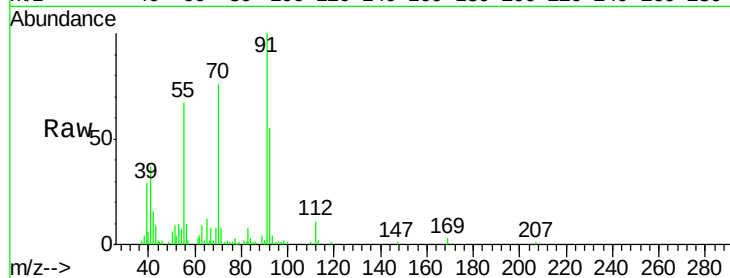
A40G2

Tgt Ion: 91 Resp: 19522

Ion Ratio Lower Upper

91 100

92 55.3 40.4 75.0



#46

1,1,2-Trichloroethane

Concen: 0.750 ug/L

RT: 10.76 min Scan# 1453

Delta R.T. -0.02 min

Lab File: VW006407.D

Acq: 26 Oct 2018 15:14

Tgt Ion: 97 Resp: 1685

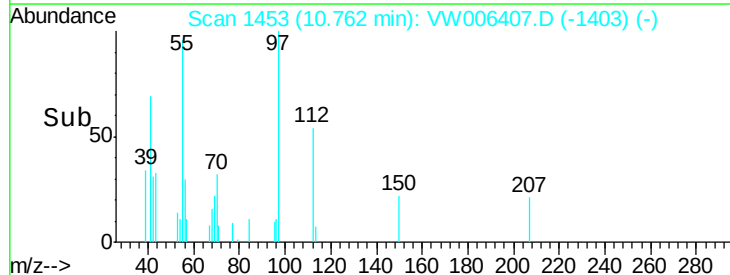
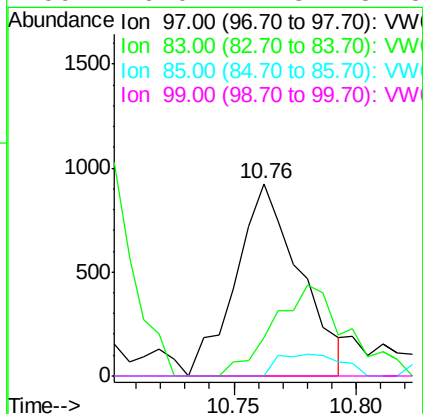
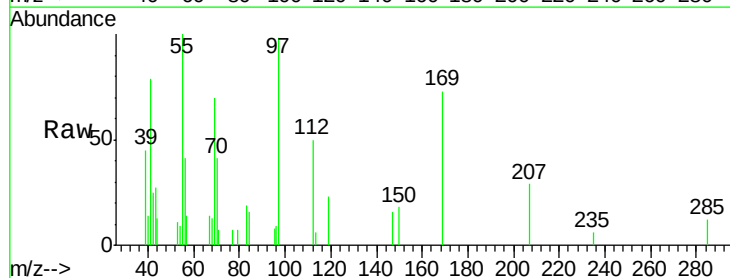
Ion Ratio Lower Upper

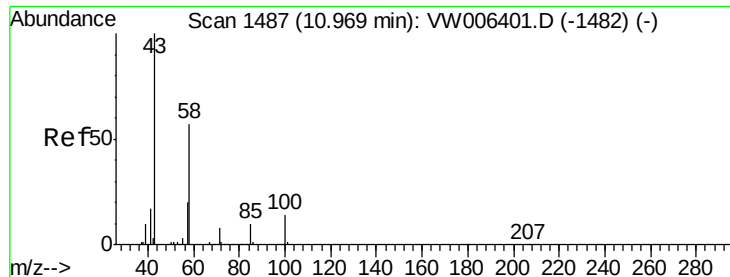
97 100

83 19.9 60.0 111.4#

85 0.0 38.7 71.9#

99 0.0 44.3 82.3#





#49

2-Hexanone

Concen: 4.143 ug/L

RT: 10.93 min Scan# 1481

Delta R.T. -0.04 min

Lab File: VW006407.D

Acq: 26 Oct 2018 15:14

Instrument :

MSVOA_W

ClientSampleId :

A40G2

Tgt Ion: 43 Resp: 6604

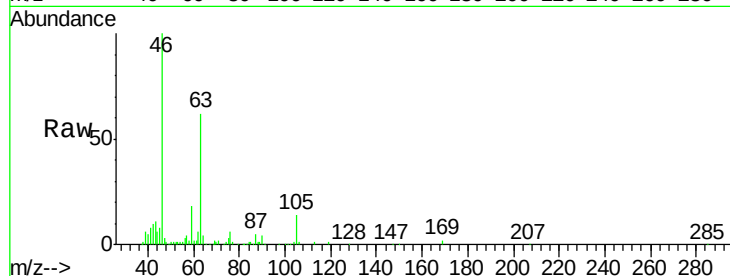
Ion Ratio Lower Upper

43 100

58 19.5 42.1 63.1#

57 38.2 15.1 22.7#

100 1.4 9.9 14.9#

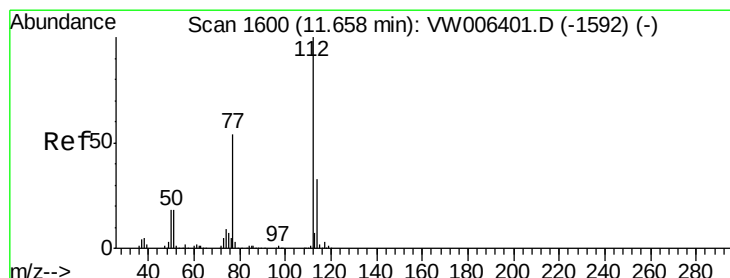
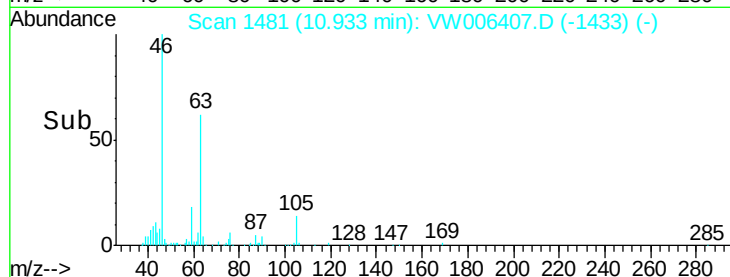
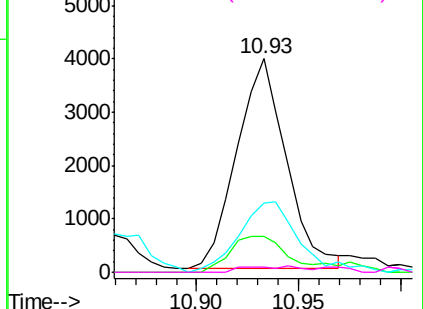


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 57.00 (56.70 to 57.70): VW

Ion 100.00 (99.70 to 100.70): VW



#52

Chlorobenzene

Concen: 4.603 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VW006407.D

Acq: 26 Oct 2018 15:14

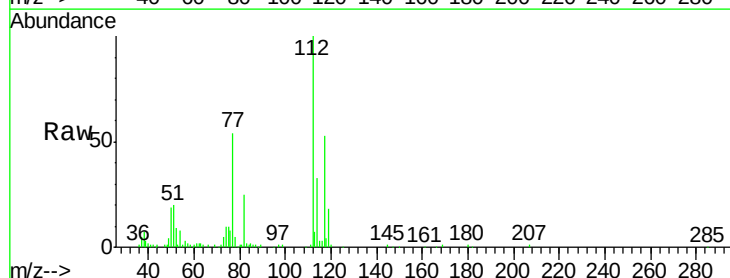
Tgt Ion: 112 Resp: 38063

Ion Ratio Lower Upper

112 100

77 54.0 44.2 66.2

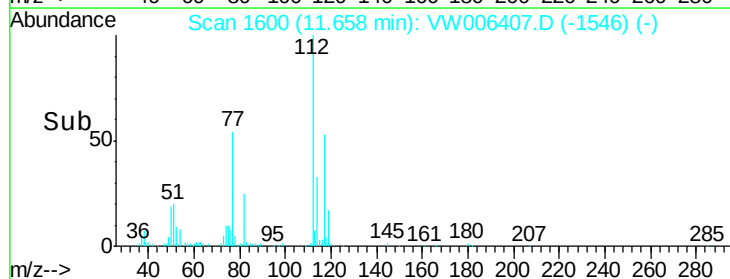
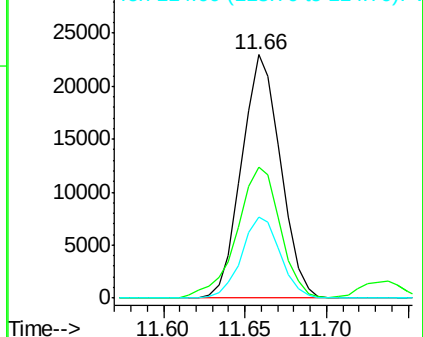
114 33.2 22.1 41.1

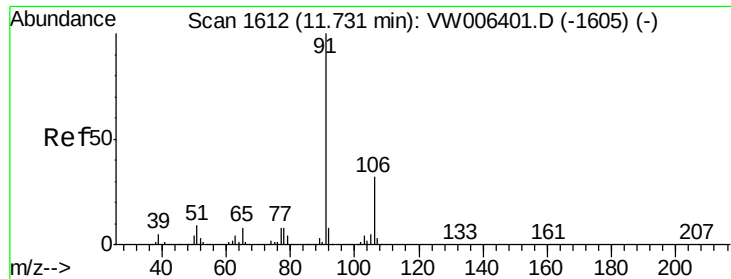


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VW

Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 2.223 ug/L

RT: 11.74 min Scan# 1613

Delta R.T. 0.01 min

Lab File: VW006407.D

Acq: 26 Oct 2018 15:14

Instrument :

MSVOA_W

ClientSampleId :

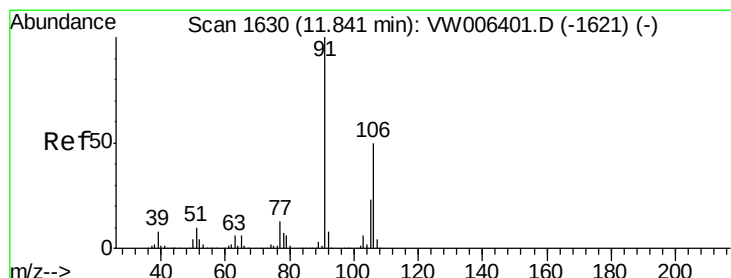
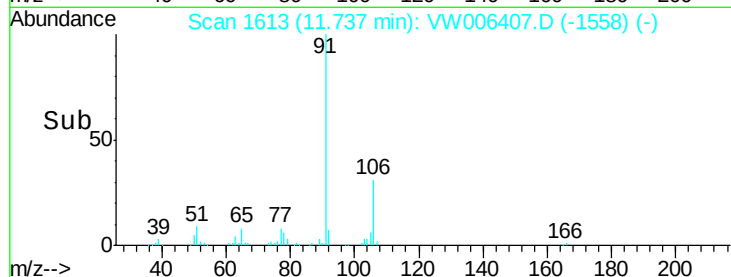
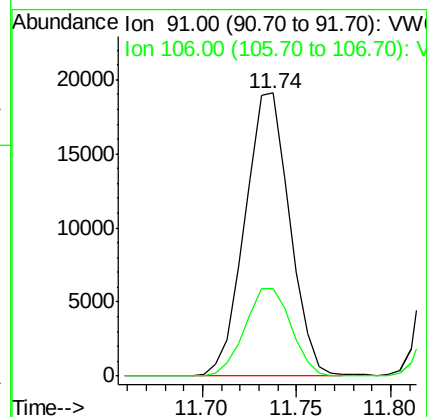
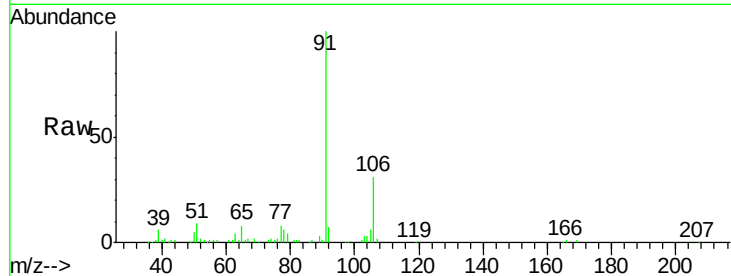
A40G2

Tgt Ion: 91 Resp: 31626

Ion Ratio Lower Upper

91 100

106 30.9 22.6 42.0



#54

m,p-Xylene

Concen: 8.120 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VW006407.D

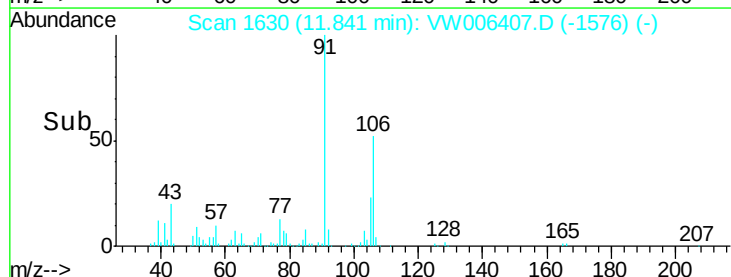
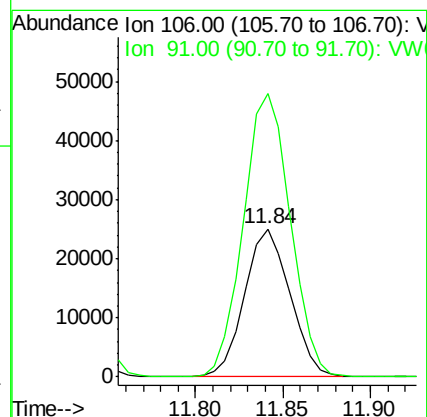
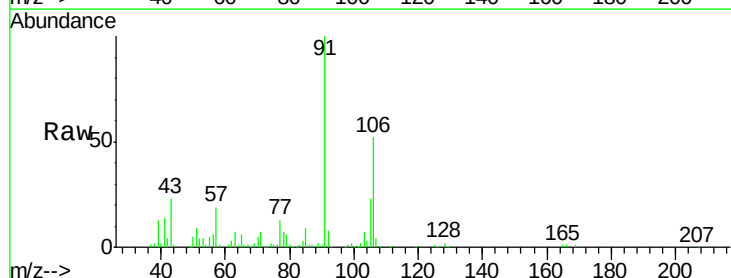
Acq: 26 Oct 2018 15:14

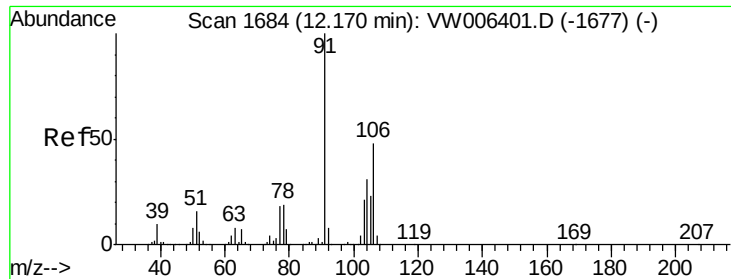
Tgt Ion: 106 Resp: 45279

Ion Ratio Lower Upper

106 100

91 191.3 138.4 257.0

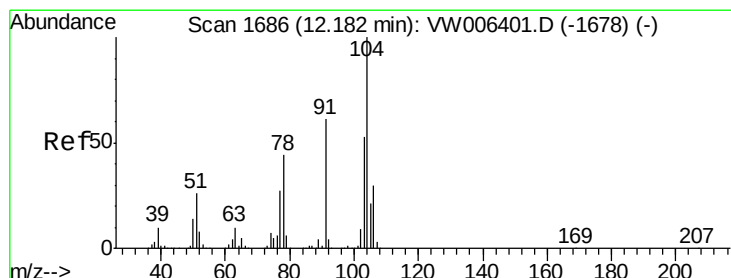
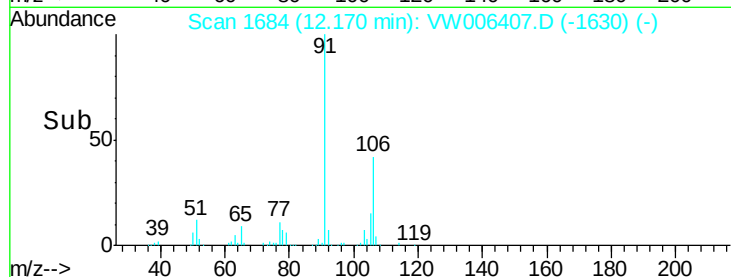
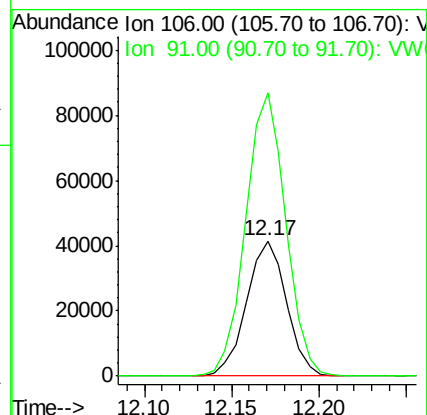
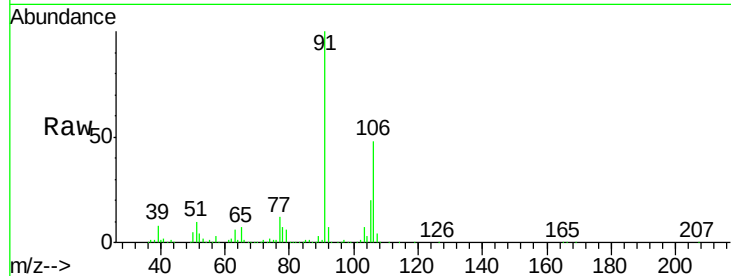




#55
o-xylene
Concen: 12.438 ug/L
RT: 12.17 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VW006407.D
Acq: 26 Oct 2018 15:14

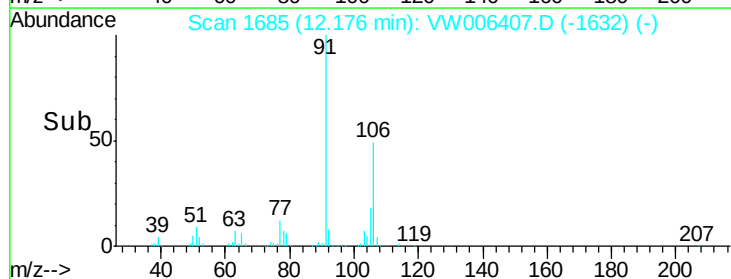
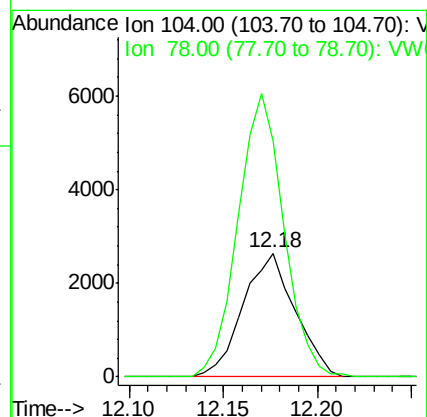
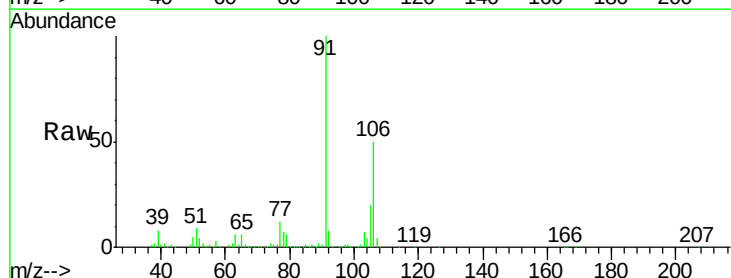
Instrument :
MSVOA_W
ClientSampled :
A40G2

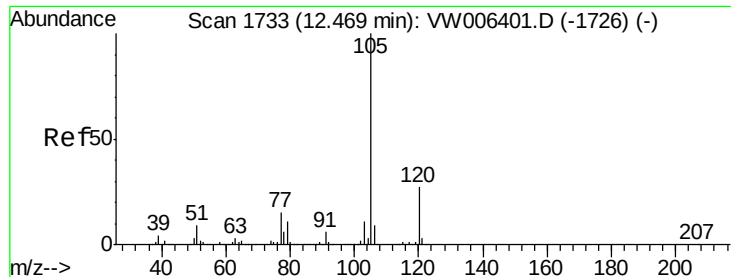
Tgt Ion:106 Resp: 66222
Ion Ratio Lower Upper
106 100
91 209.4 148.7 276.1



#56
Styrene
Concen: 0.552 ug/L
RT: 12.18 min Scan# 1685
Delta R.T. -0.01 min
Lab File: VW006407.D
Acq: 26 Oct 2018 15:14

Tgt Ion:104 Resp: 5063
Ion Ratio Lower Upper
104 100
78 190.3 31.2 58.0#





#57

Isopropylbenzene

Concen: 44.484 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.00 min

Lab File: VW006407.D

Acq: 26 Oct 2018 15:14

Instrument :

MSVOA_W

ClientSampleId :

A40G2

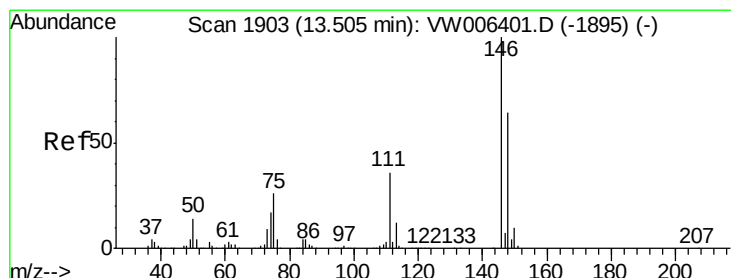
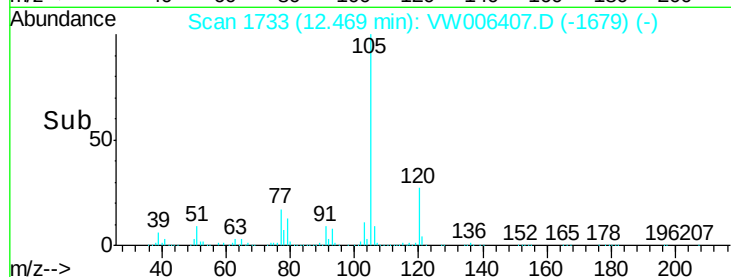
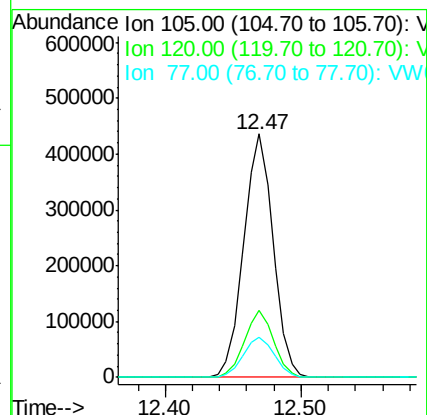
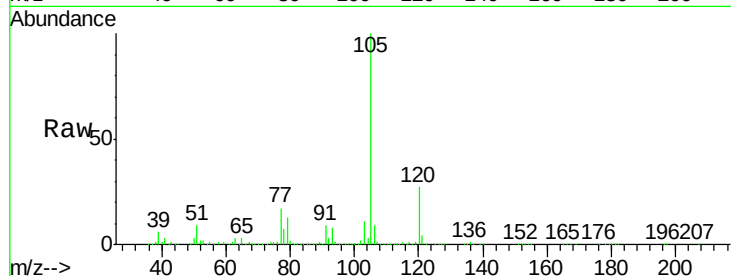
Tgt Ion:105 Resp: 658978

Ion Ratio Lower Upper

105 100

120 27.0 21.8 32.6

77 17.6 12.2 18.2



#63

1,3-Dichlorobenzene

Concen: 369.879 ug/L

RT: 13.51 min Scan# 1903

Delta R.T. 0.00 min

Lab File: VW006407.D

Acq: 26 Oct 2018 15:14

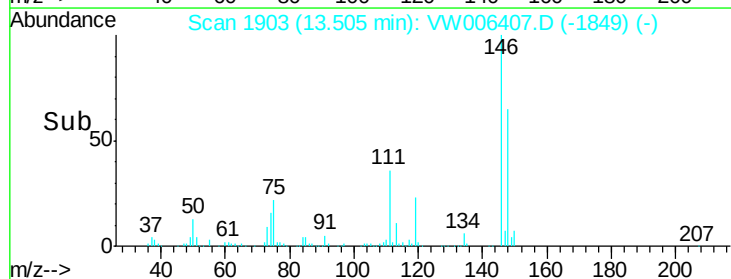
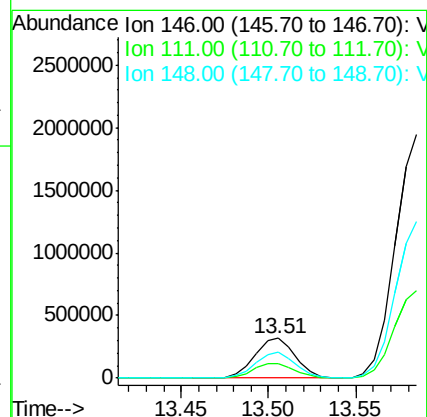
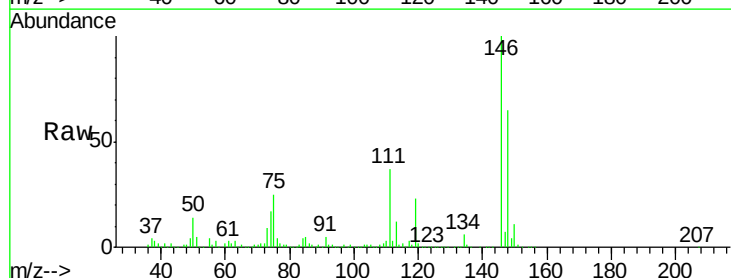
Tgt Ion:146 Resp: 510642

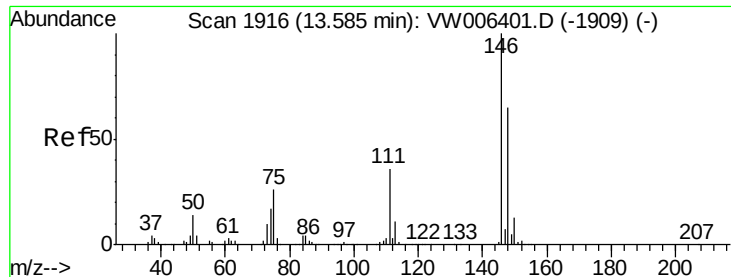
Ion Ratio Lower Upper

146 100

111 37.2 26.3 48.9

148 64.6 44.7 82.9

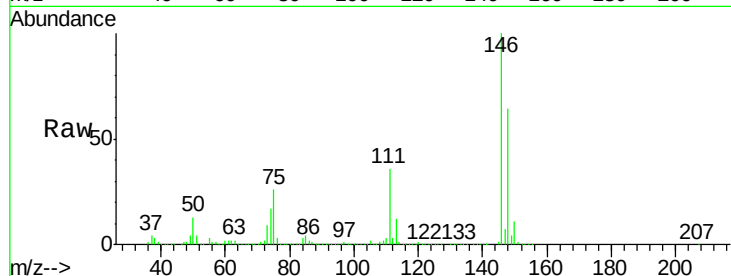




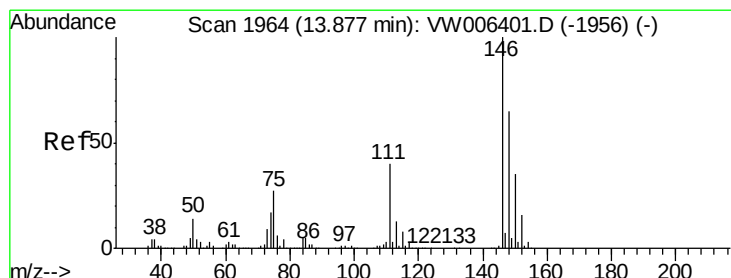
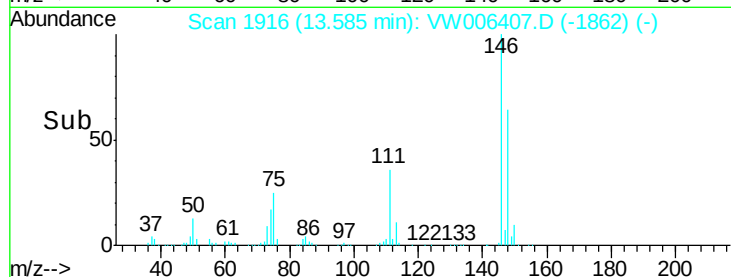
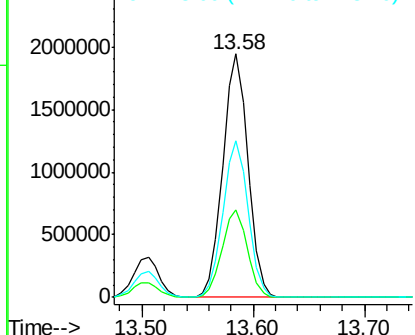
#64
1,4-Dichlorobenzene
Concen: 2184.487 ug/L
RT: 13.58 min Scan# 1916
Delta R.T. 0.00 min
Lab File: VW006407.D
Acq: 26 Oct 2018 15:14

Instrument :
MSVOA_W
ClientSampleId :
A40G2

Tgt Ion:146 Resp: 3036971
Ion Ratio Lower Upper
146 100
111 35.8 24.7 45.9
148 64.5 44.9 83.5

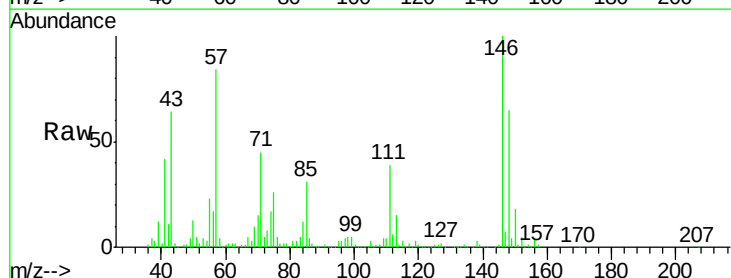


Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V

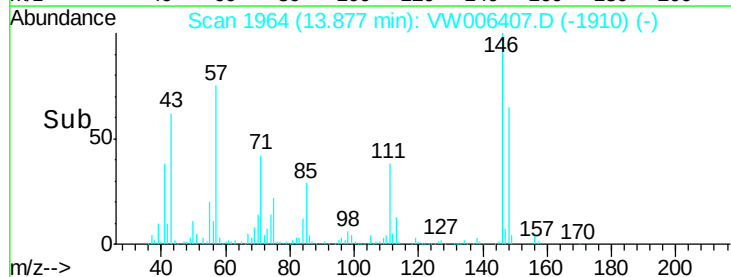
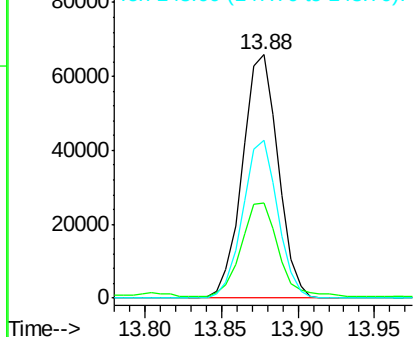


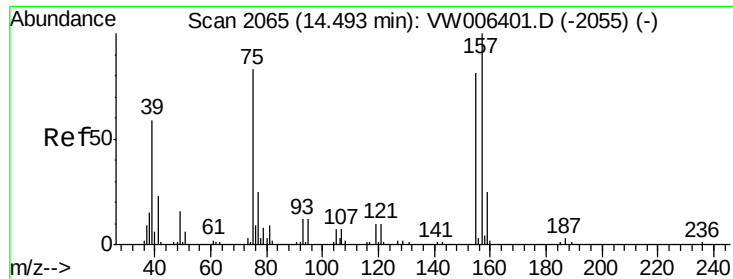
#65
1,2-Dichlorobenzene
Concen: 84.298 ug/L
RT: 13.88 min Scan# 1964
Delta R.T. 0.00 min
Lab File: VW006407.D
Acq: 26 Oct 2018 15:14

Tgt Ion:146 Resp: 107062
Ion Ratio Lower Upper
146 100
111 38.9 31.1 46.7
148 64.7 51.2 76.8



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V

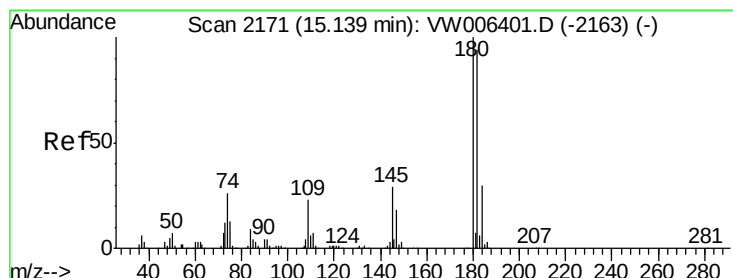
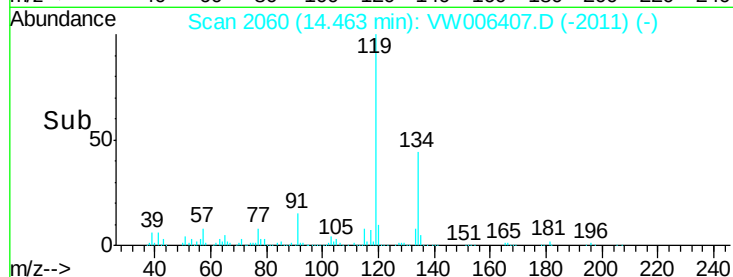
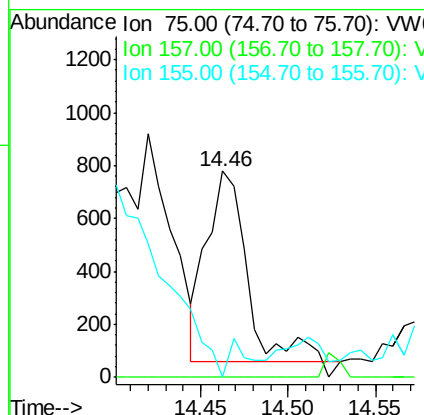
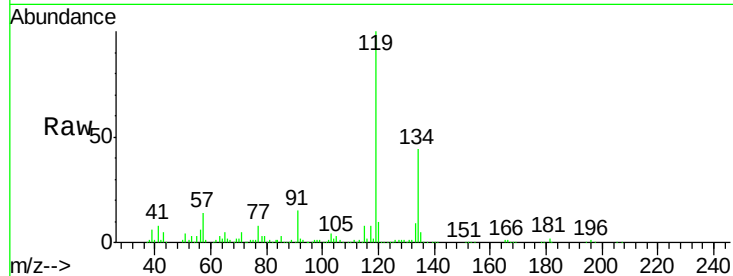




#66
 1,2-Dibromo-3-chloropropane
 Concen: 11.093 ug/L
 RT: 14.46 min Scan# 2060
 Delta R.T. -0.03 min
 Lab File: VW006407.D
 Acq: 26 Oct 2018 15:14

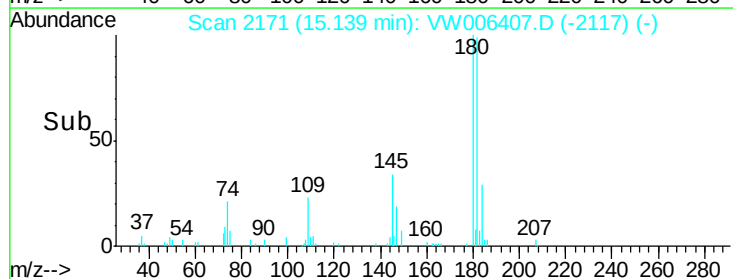
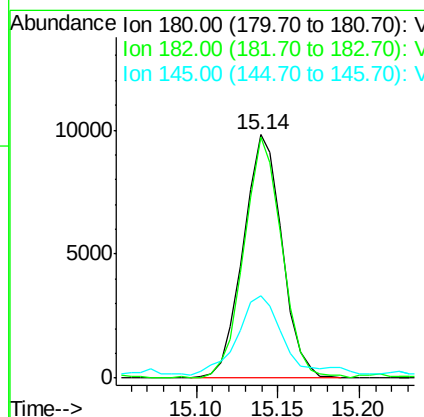
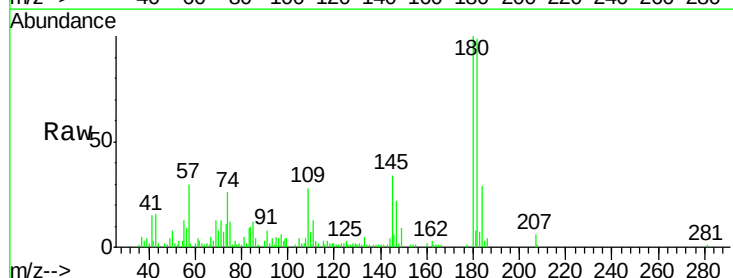
Instrument :
 MSVOA_W
 ClientSampleId :
 A40G2

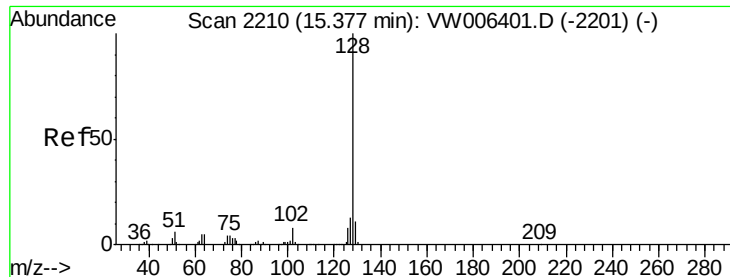
Tgt Ion: 75 Resp: 1134
 Ion Ratio Lower Upper
 75 100
 157 0.0 106.8 160.2#
 155 0.0 79.2 118.8#



#68
 1,2,4-trichlorobenzene
 Concen: 17.149 ug/L
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.00 min
 Lab File: VW006407.D
 Acq: 26 Oct 2018 15:14

Tgt Ion: 180 Resp: 16273
 Ion Ratio Lower Upper
 180 100
 182 96.6 76.2 114.2
 145 37.1 23.0 34.6#





#69

Naphthalene

Concen: 31.653 ug/L

RT: 15.38 min Scan# 2210

Delta R.T. 0.00 min

Lab File: VW006407.D

Acq: 26 Oct 2018 15:14

Instrument :

MSVOA_W

ClientSampleId :

A40G2

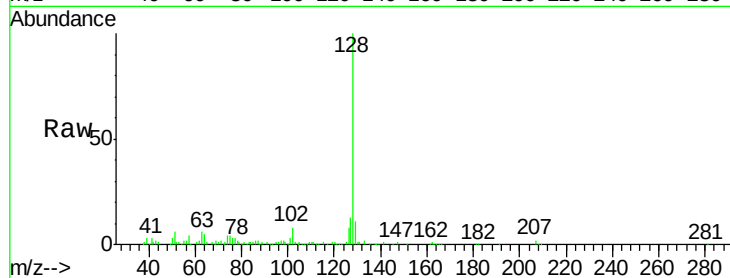
Tgt Ion:128 Resp: 60813

Ion Ratio Lower Upper

128 100

129 10.8 8.9 13.3

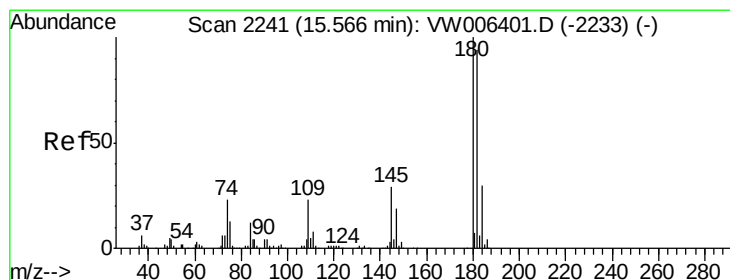
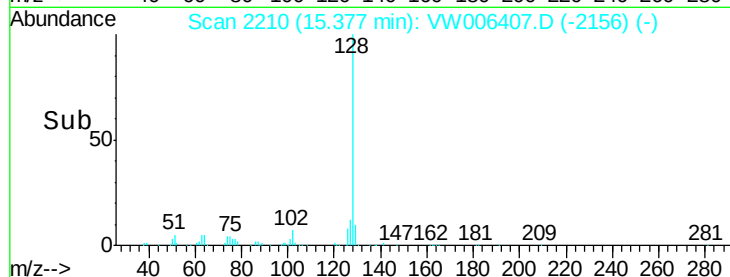
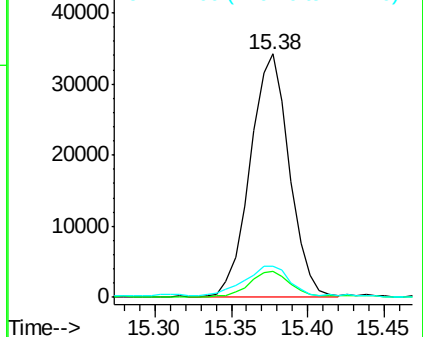
127 15.1 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 1.505 ug/L

RT: 15.57 min Scan# 2241

Delta R.T. 0.00 min

Lab File: VW006407.D

Acq: 26 Oct 2018 15:14

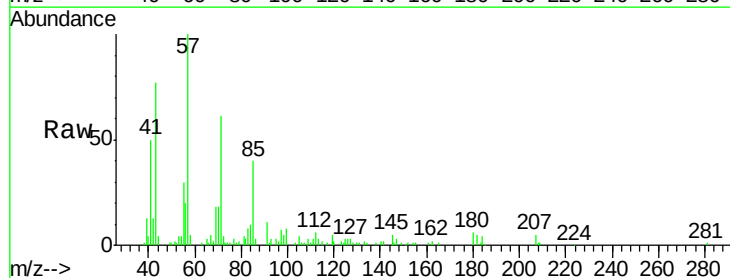
Tgt Ion:180 Resp: 1283

Ion Ratio Lower Upper

180 100

182 104.4 75.5 113.3

145 152.2 24.5 36.7#



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

