

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW080819\
 Data File : VW011748.D
 Acq On : 07 Aug 2019 13:57
 Operator : SY/VA
 Sample : K4107-04
 Misc : 5.00G/5ML/MSVOA_W/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 T-2A

Quant Time: Aug 07 15:12:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W072719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 00:23:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	219924	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	363813	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	302917	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	124248	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	139512	55.24	ug/l	0.00
Spiked Amount			Recovery	=	110.48%	
35) Dibromofluoromethane	7.88	113	111178	54.47	ug/l	0.00
Spiked Amount			Recovery	=	108.94%	
50) Toluene-d8	10.32	98	449641	53.81	ug/l	0.00
Spiked Amount			Recovery	=	107.62%	
62) 4-Bromofluorobenzene	12.62	95	143195	48.06	ug/l	0.00
Spiked Amount			Recovery	=	96.12%	

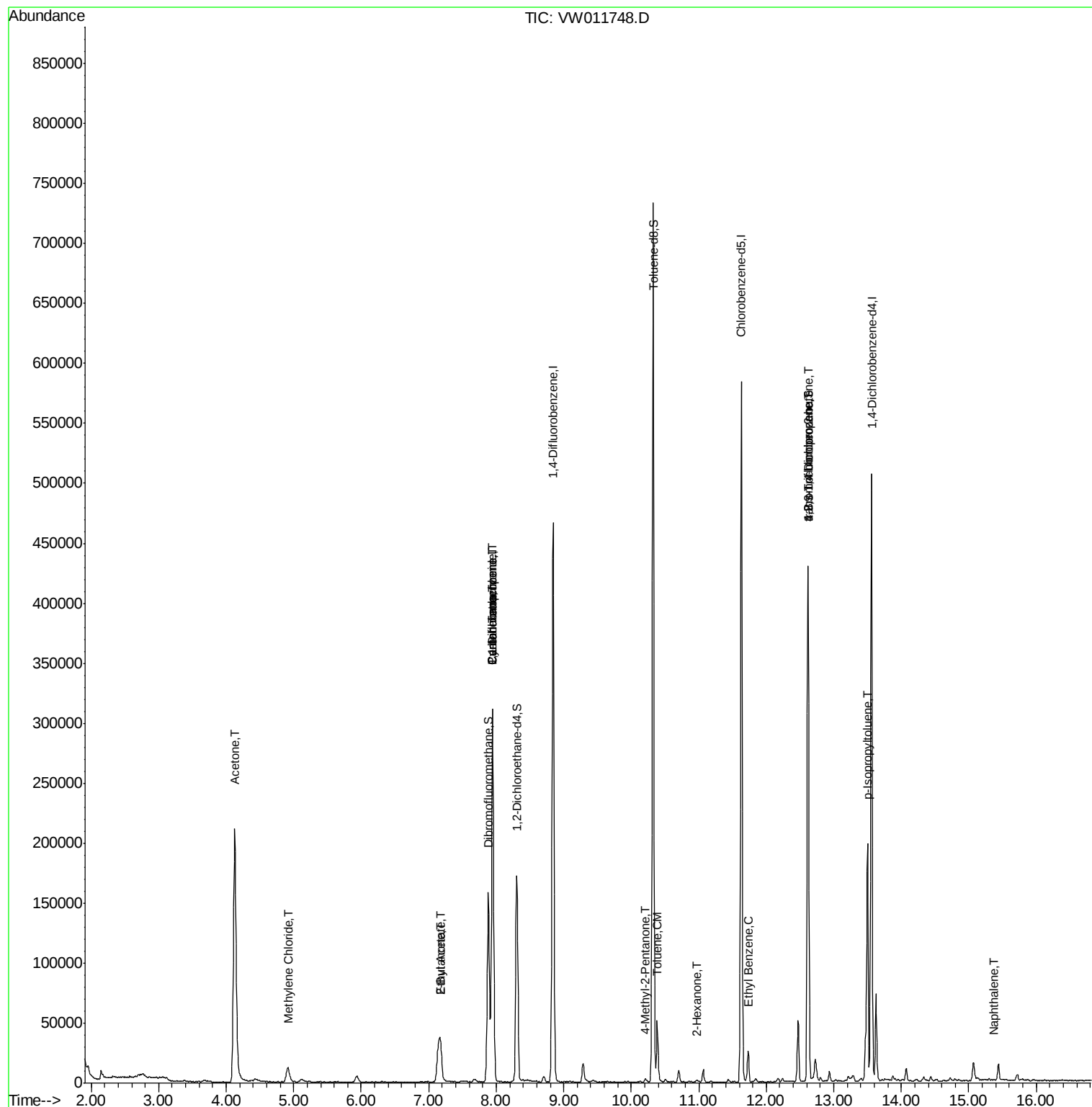
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.17	59	225	Below Cal	#	80
16) Acetone	4.13	43	404412	503.435	ug/l	98
20) Methylene Chloride	4.92	84	8660	3.126	ug/l	91
25) 2-Butanone	7.18	43	50158	47.717	ug/l	99
31) Cyclohexane	7.95	56	5694	1.206	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	19555	5.169	ug/l #	51
37) Ethyl Acetate	7.18	43	50158	23.046	ug/l #	73
38) Carbon Tetrachloride	7.95	117	22765	7.029	ug/l #	16
51) 4-Methyl-2-Pentanone	10.21	43	2101	1.009	ug/l	93
52) Toluene	10.39	92	20916	3.269	ug/l	99
59) 2-Hexanone	10.98	43	1732	1.178	ug/l	83
67) Ethyl Benzene	11.73	91	16409	1.415	ug/l	96
76) 1,2,3-Trichloropropane	12.62	75	75924	57.751	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	75924	133.095	ug/l #	6
86) p-Isopropyltoluene	13.50	119	102380	12.171	ug/l	97
95) Naphthalene	15.36	128	911	2.244	ug/l #	83

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW011748.D

Acq: 07 Aug 2019 13:57

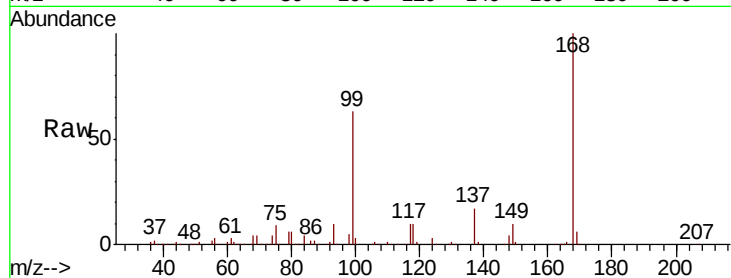
Instrument :
MSVOA_W
ClientSampled :
T-2A

Tgt Ion:168 Resp: 219924

Ion Ratio Lower Upper

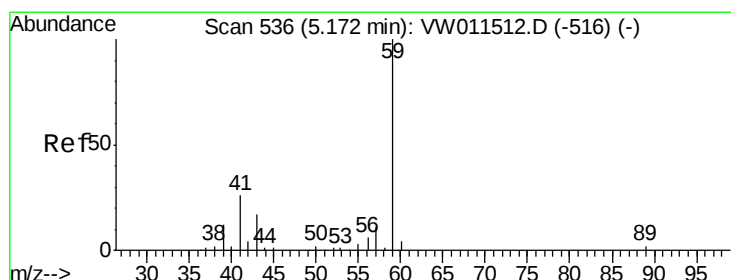
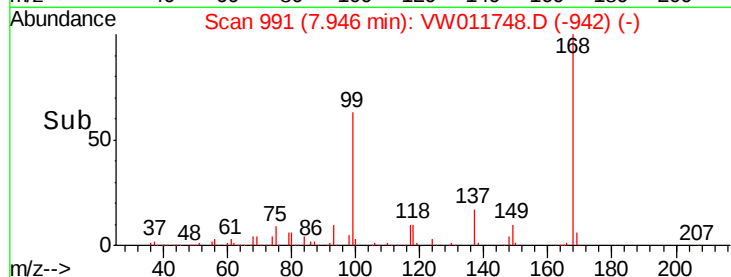
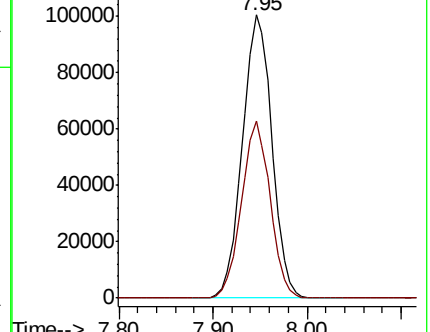
168 100

99 62.7 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.17 min Scan# 536

Delta R.T. 0.00 min

Lab File: VW011748.D

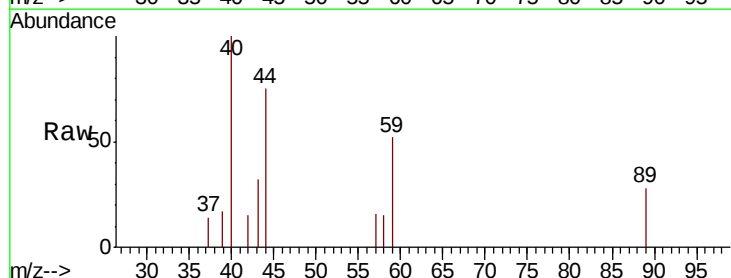
Acq: 07 Aug 2019 13:57

Tgt Ion: 59 Resp: 225

Ion Ratio Lower Upper

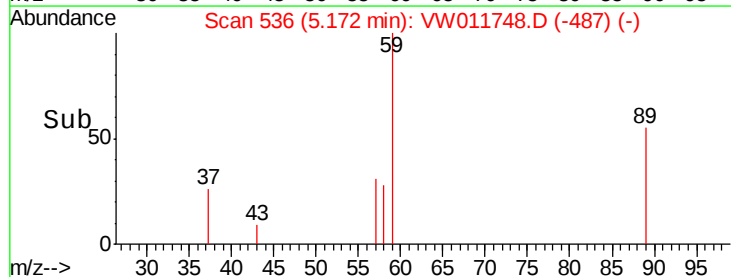
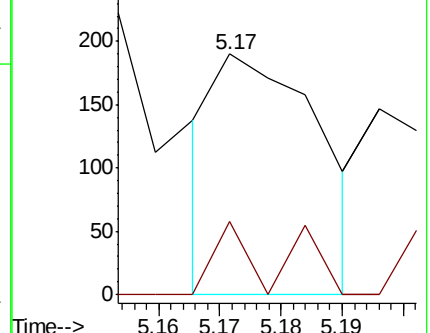
59 100

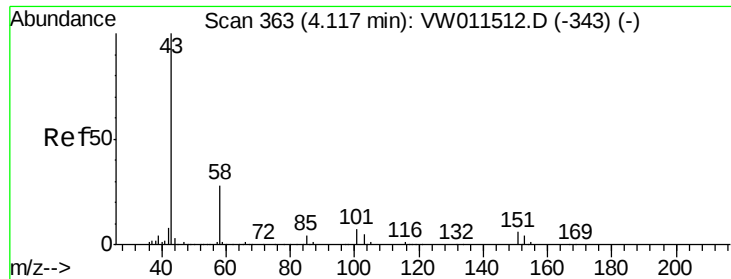
57 18.2 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

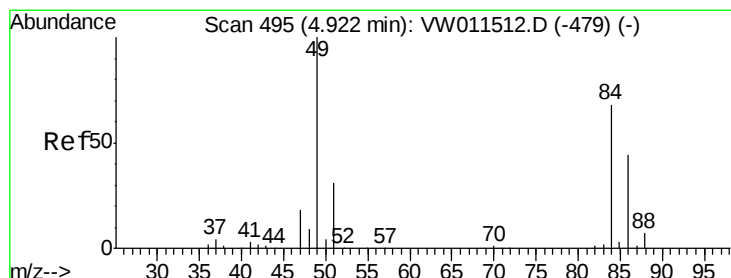
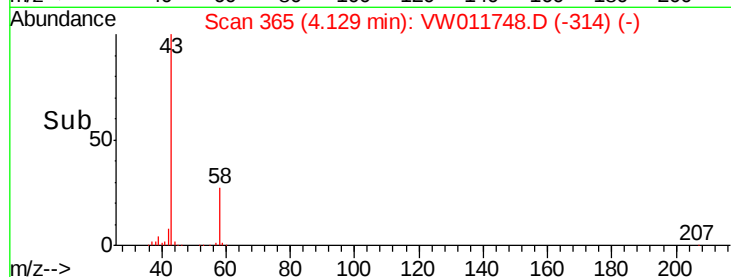
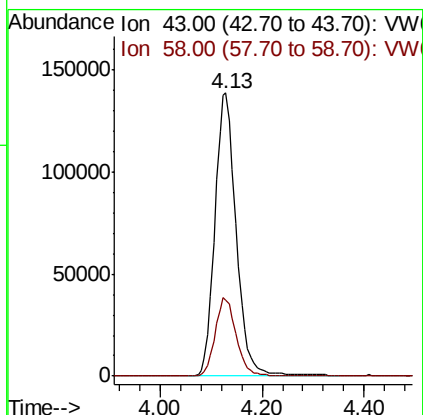
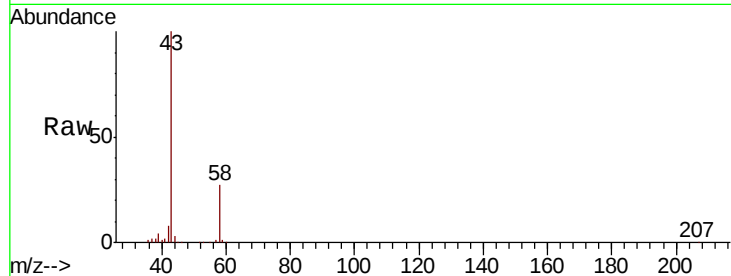




#16
Acetone
Concen: 503.435 ug/l
RT: 4.13 min Scan# 365
Delta R.T. 0.01 min
Lab File: VW011748.D
Acq: 07 Aug 2019 13:57

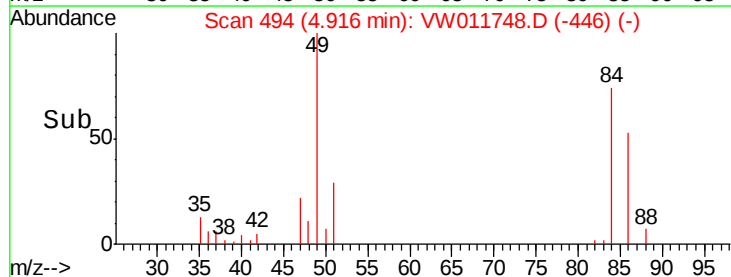
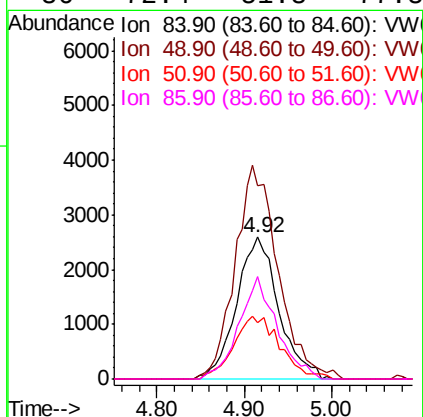
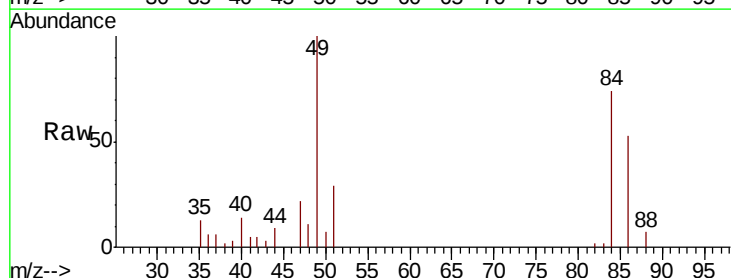
Instrument :
MSVOA_W
ClientSampleId :
T-2A

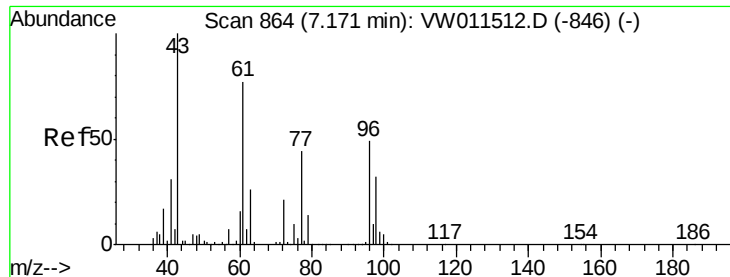
Tgt Ion: 43 Resp: 404412
Ion Ratio Lower Upper
43 100
58 27.1 22.3 33.5



#20
Methylene Chloride
Concen: 3.126 ug/l
RT: 4.92 min Scan# 494
Delta R.T. -0.01 min
Lab File: VW011748.D
Acq: 07 Aug 2019 13:57

Tgt Ion: 84 Resp: 8660
Ion Ratio Lower Upper
84 100
49 135.8 117.8 176.6
51 39.9 37.0 55.4
86 72.4 51.8 77.8





#25

2-Butanone

Concen: 47.717 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW011748.D

Acq: 07 Aug 2019 13:57

Instrument :

MSVOA_W

ClientSampleId :

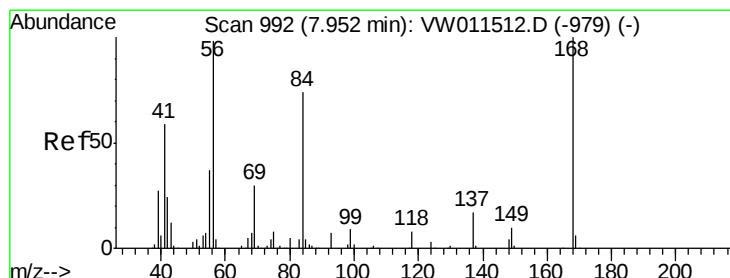
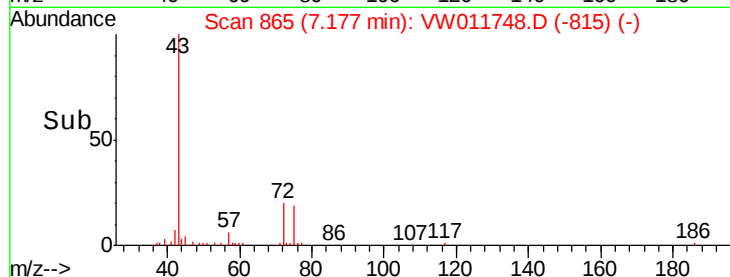
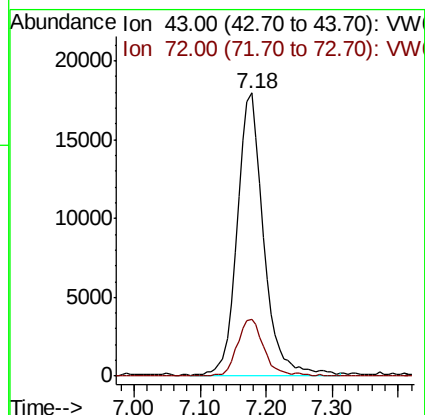
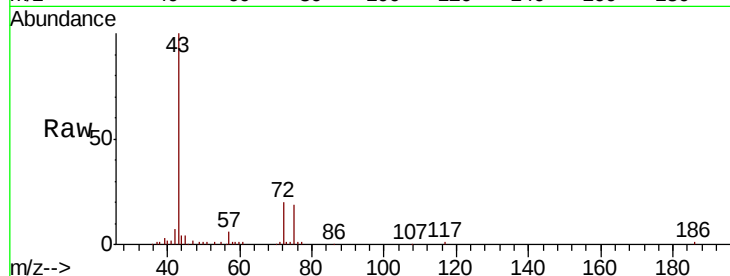
T-2A

Tgt Ion: 43 Resp: 50158

Ion Ratio Lower Upper

43 100

72 20.3 16.6 24.8



#31

Cyclohexane

Concen: 1.206 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW011748.D

Acq: 07 Aug 2019 13:57

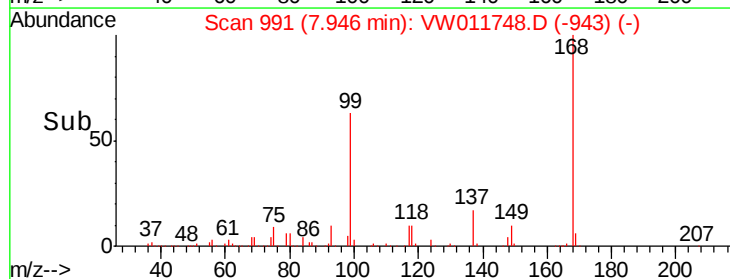
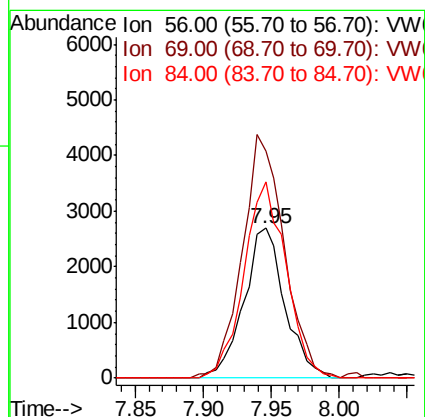
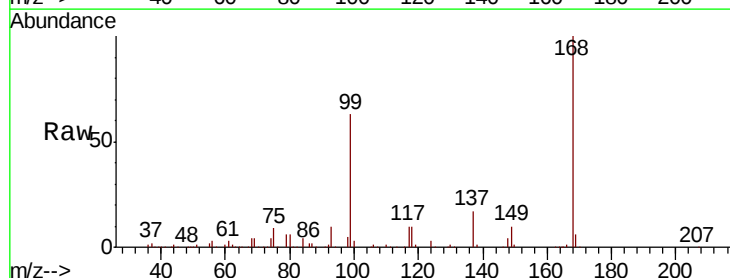
Tgt Ion: 56 Resp: 5694

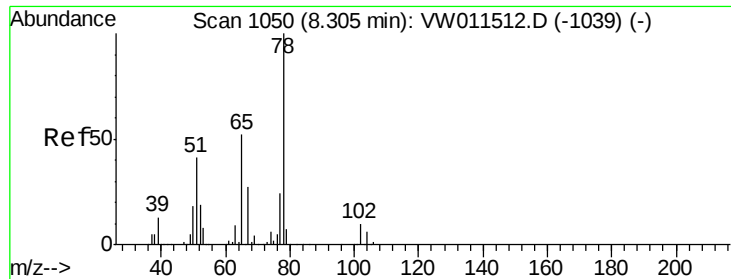
Ion Ratio Lower Upper

56 100

69 151.4 24.3 36.5#

84 131.4 60.4 90.6#

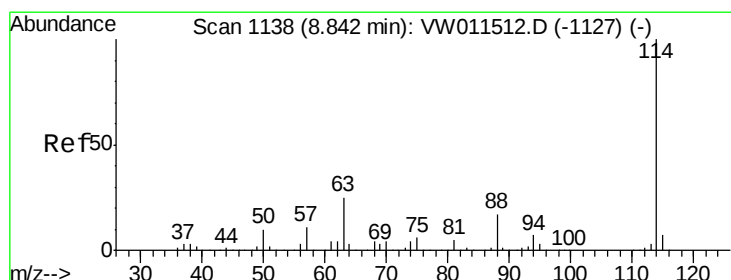
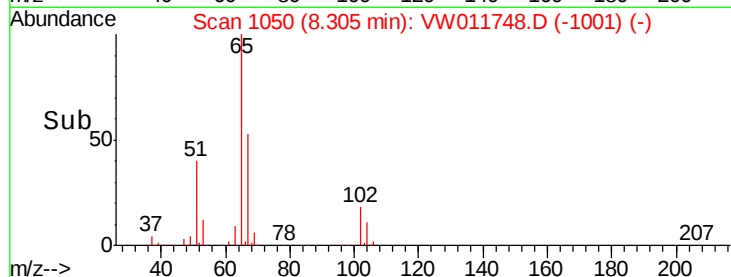
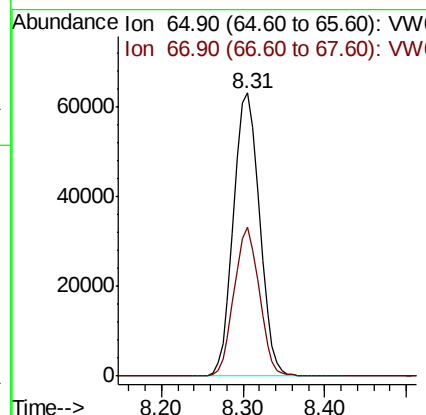
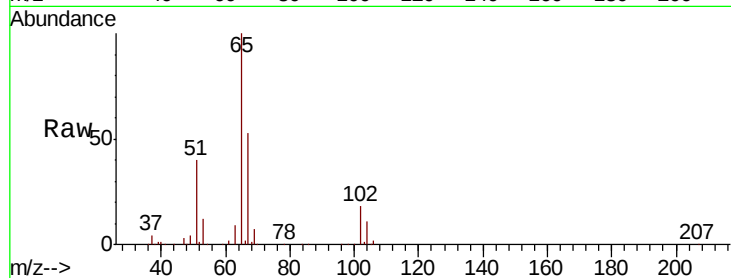




#33
 1,2-Dichloroethane-d4
 Concen: 55.245 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW011748.D
 Acq: 07 Aug 2019 13:57

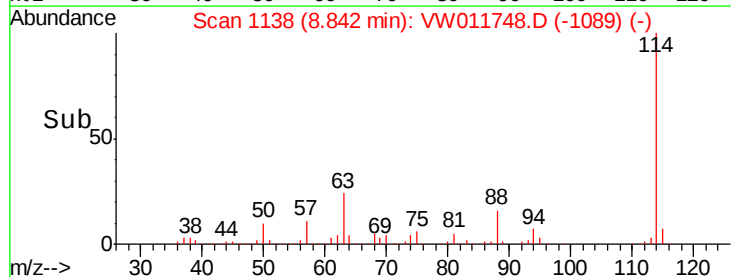
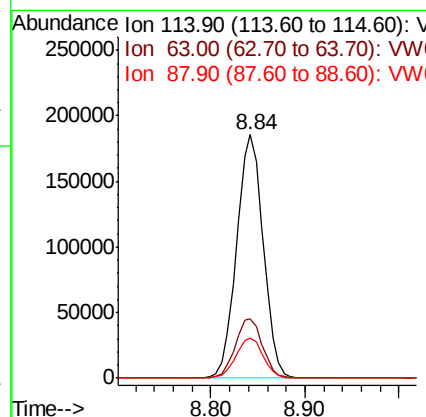
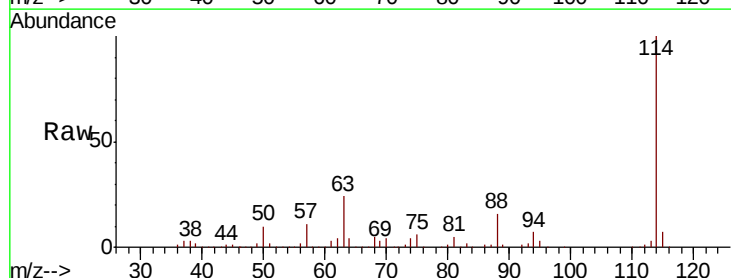
Instrument :
 MSVOA_W
 ClientSampleId :
 T-2A

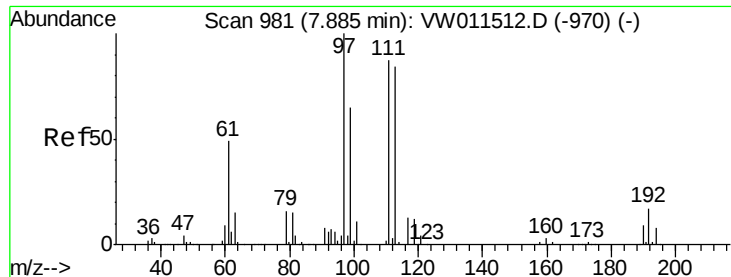
Tgt Ion: 65 Resp: 139512
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW011748.D
 Acq: 07 Aug 2019 13:57

Tgt Ion: 114 Resp: 363813
 Ion Ratio Lower Upper
 114 100
 63 24.4 0.0 49.2
 88 16.4 0.0 33.8

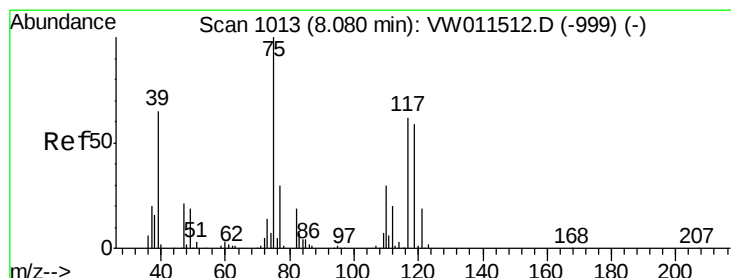
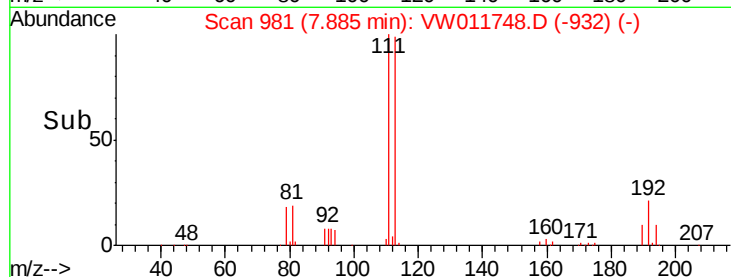
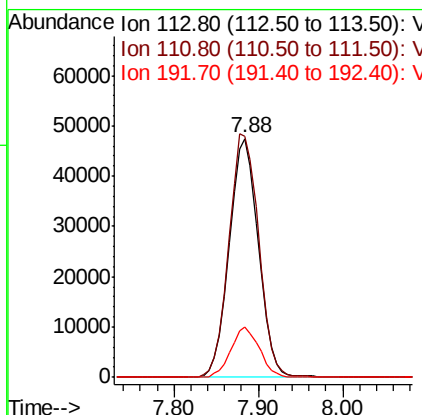
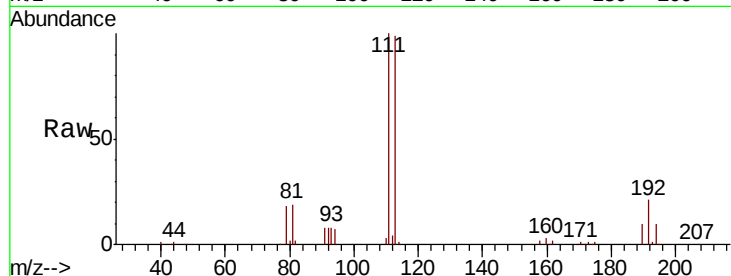




#35
 Dibromofluoromethane
 Concen: 54.471 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW011748.D
 Acq: 07 Aug 2019 13:57

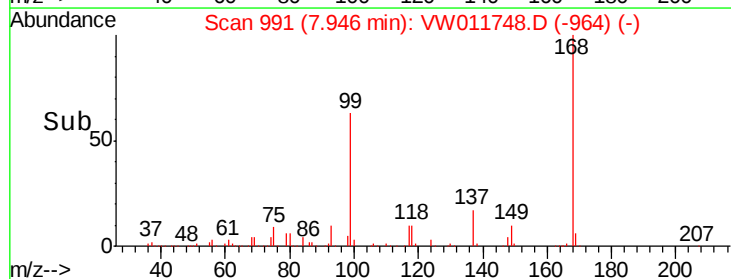
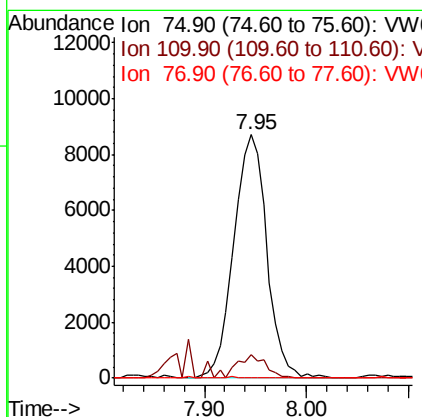
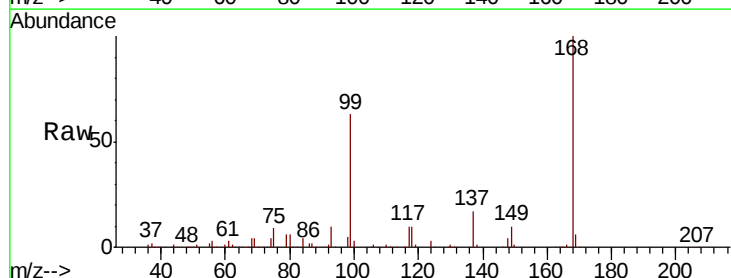
Instrument :
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 ClientSampleId :
 T-2A

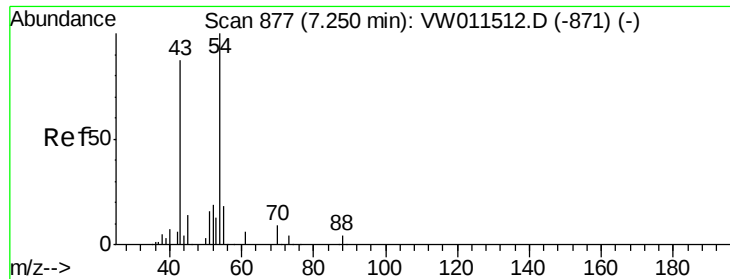
Tgt Ion:113 Resp: 111178
 Ion Ratio Lower Upper
 113 100
 111 104.4 82.7 124.1
 192 20.4 16.1 24.1



#36
 1,1-Dichloropropene
 Concen: 5.169 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW011748.D
 Acq: 07 Aug 2019 13:57

Tgt Ion: 75 Resp: 19555
 Ion Ratio Lower Upper
 75 100
 110 8.0 15.6 46.8#
 77 0.1 24.3 36.5#

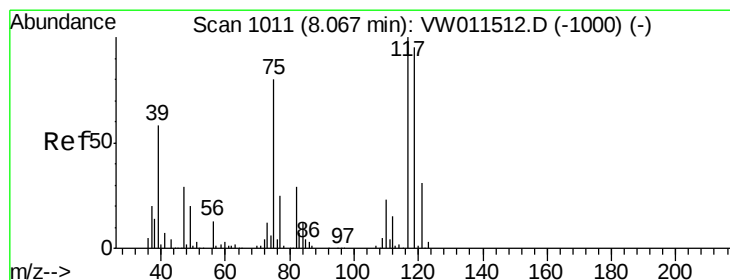
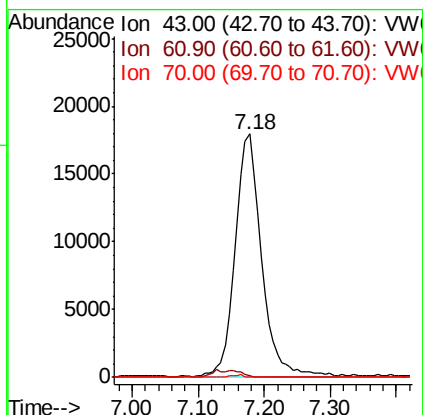
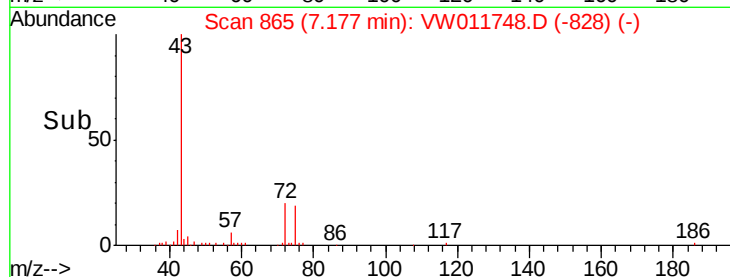
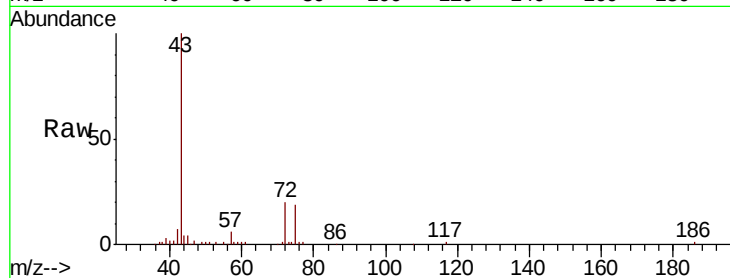




#37
Ethyl Acetate
Concen: 23.046 ug/l
RT: 7.18 min Scan# 865
Delta R.T. -0.07 min
Lab File: VW011748.D
Acq: 07 Aug 2019 13:57

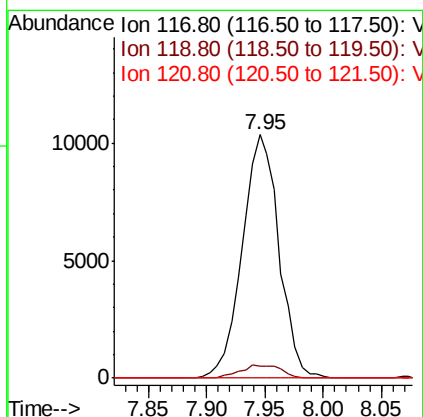
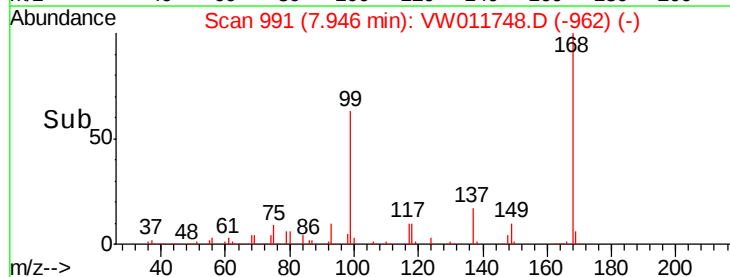
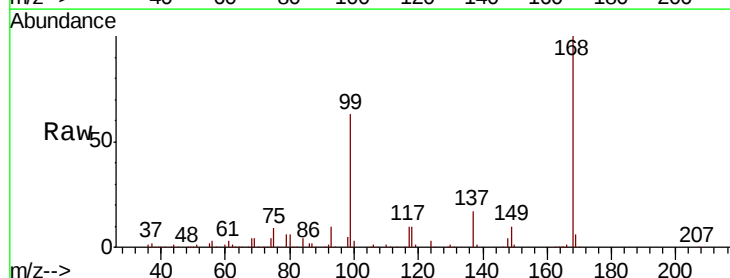
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MSVOA_W
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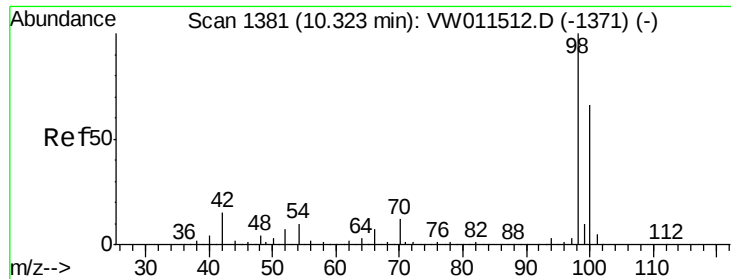
Tgt Ion: 43 Resp: 50158
Ion Ratio Lower Upper
43 100
61 0.0 8.8 13.2#
70 0.4 7.1 10.7#



#38
Carbon Tetrachloride
Concen: 7.029 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW011748.D
Acq: 07 Aug 2019 13:57

Tgt Ion: 117 Resp: 22765
Ion Ratio Lower Upper
117 100
119 5.0 75.8 113.6#
121 0.0 24.7 37.1#





#50

Toluene-d8

Concen: 53.806 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW011748.D

Acq: 07 Aug 2019 13:57

Instrument :

MSVOA_W

ClientSampled :

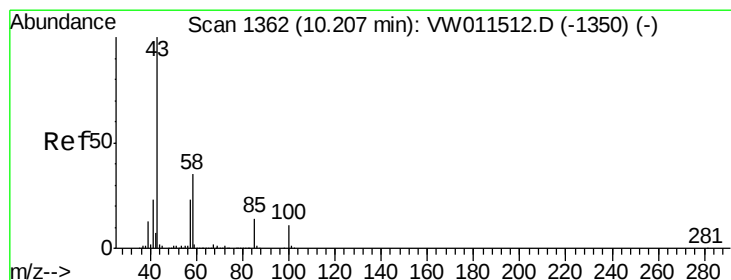
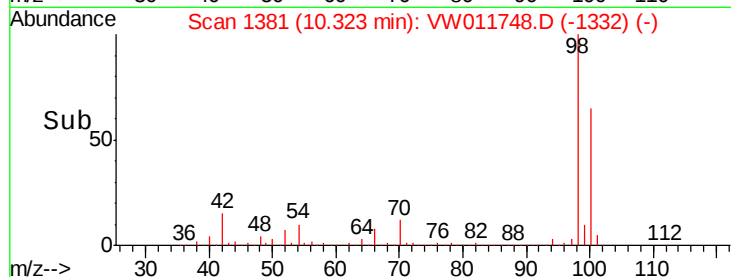
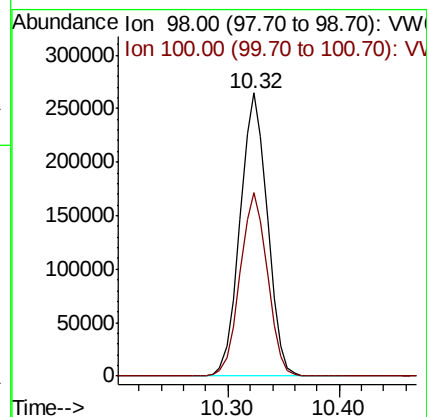
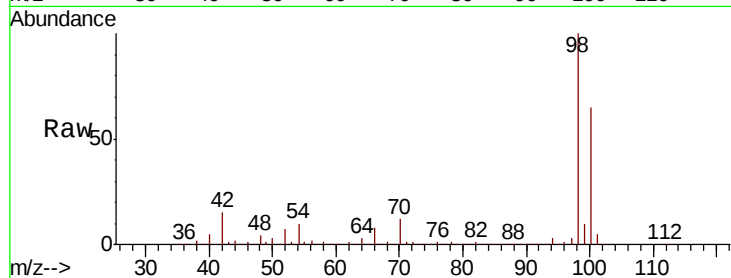
T-2A

Tgt Ion: 98 Resp: 449641

Ion Ratio Lower Upper

98 100

100 64.9 52.7 79.1



#51

4-Methyl-2-Pentanone

Concen: 1.009 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW011748.D

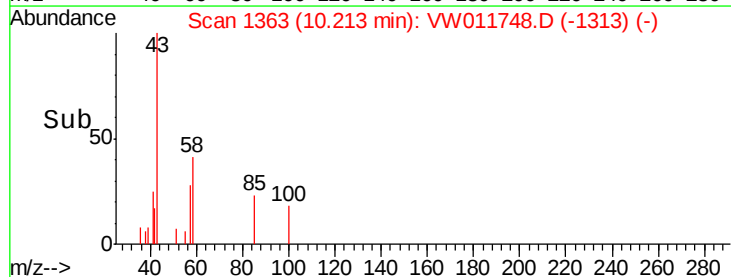
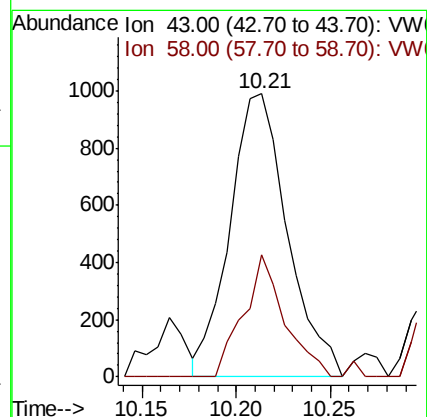
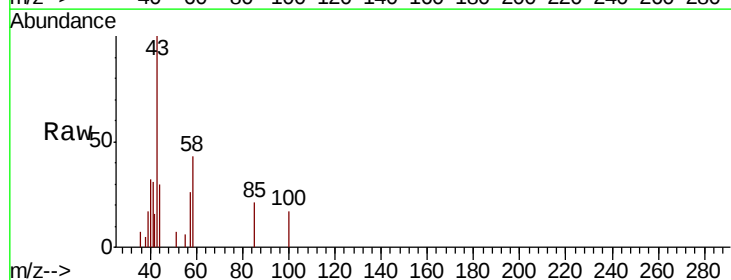
Acq: 07 Aug 2019 13:57

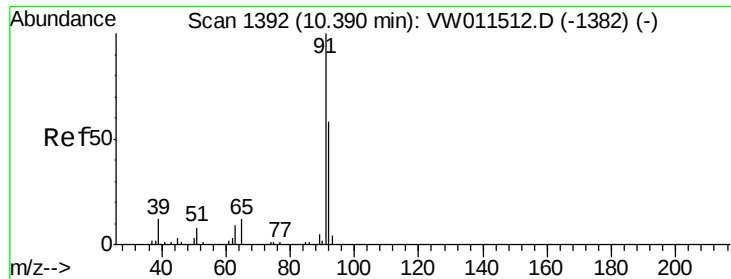
Tgt Ion: 43 Resp: 2101

Ion Ratio Lower Upper

43 100

58 30.8 28.2 42.2





#52

Toluene

Concen: 3.269 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW011748.D

Acq: 07 Aug 2019 13:57

Instrument :

MSVOA_W

ClientSampled :

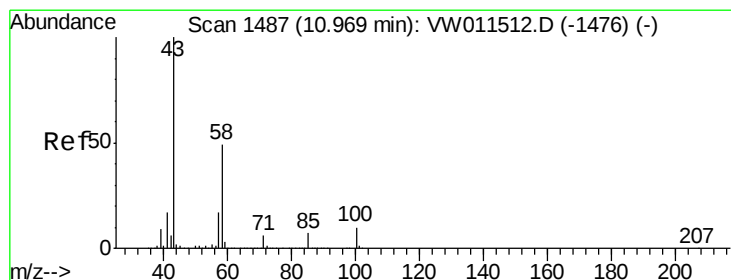
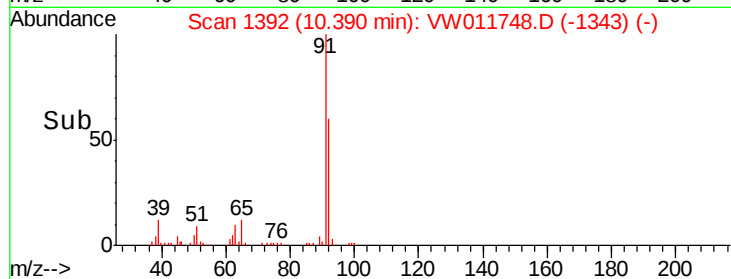
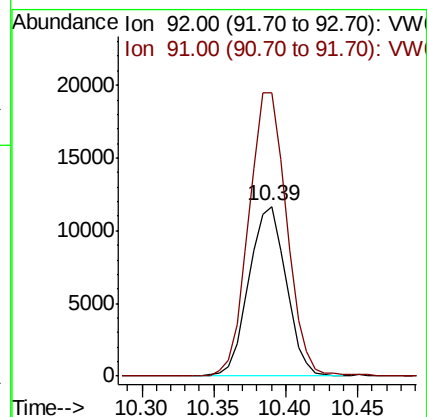
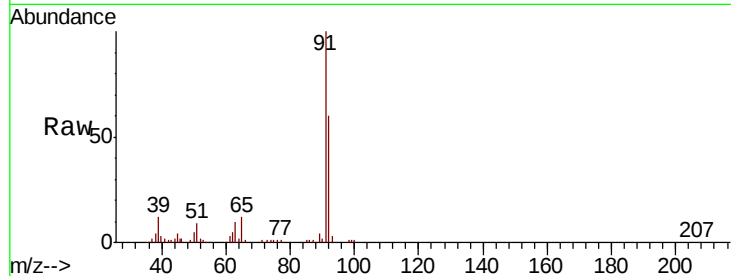
T-2A

Tgt Ion: 92 Resp: 20916

Ion Ratio Lower Upper

92 100

91 169.6 136.7 205.1



#59

2-Hexanone

Concen: 1.178 ug/l

RT: 10.98 min Scan# 1488

Delta R.T. 0.01 min

Lab File: VW011748.D

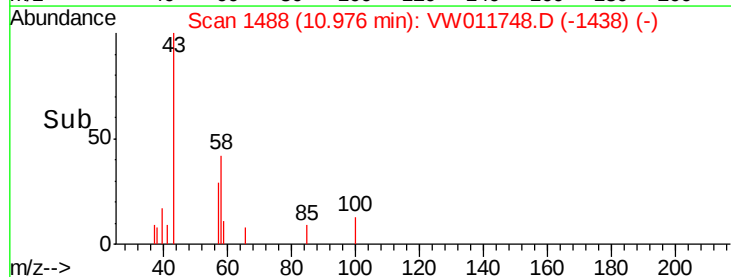
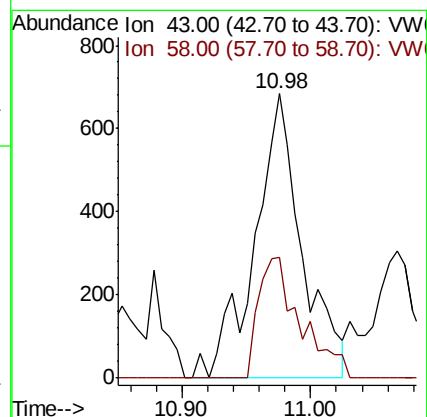
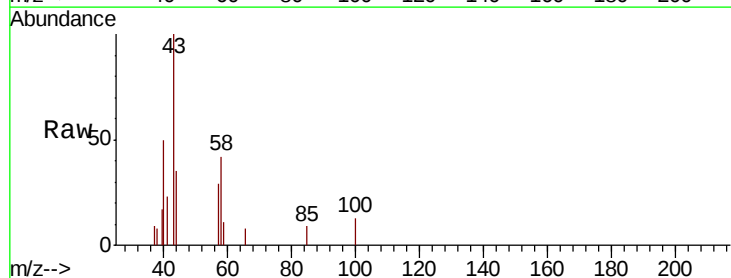
Acq: 07 Aug 2019 13:57

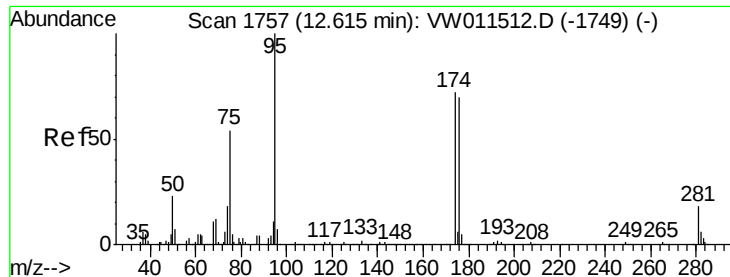
Tgt Ion: 43 Resp: 1732

Ion Ratio Lower Upper

43 100

58 37.2 24.3 72.9





#62

4-Bromofluorobenzene

Concen: 48.063 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.01 min

Lab File: VW011748.D

Acq: 07 Aug 2019 13:57

Instrument :

MSVOA_W

ClientSampleId :

T-2A

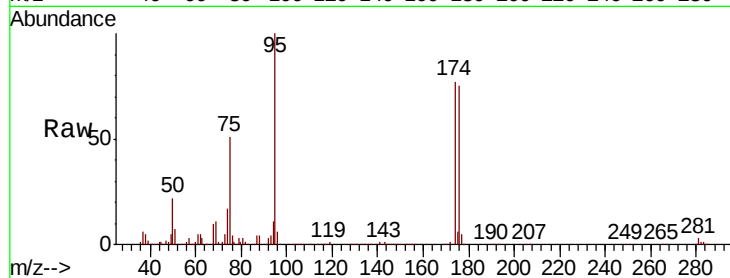
Tgt Ion: 95 Resp: 143195

Ion Ratio Lower Upper

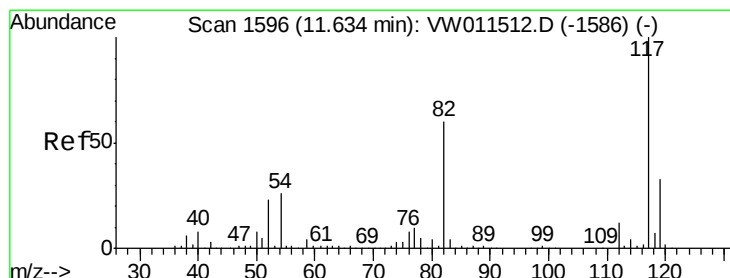
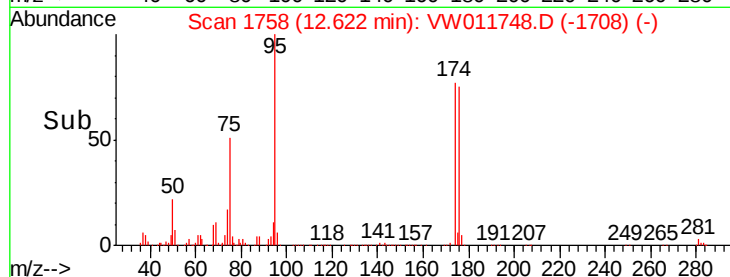
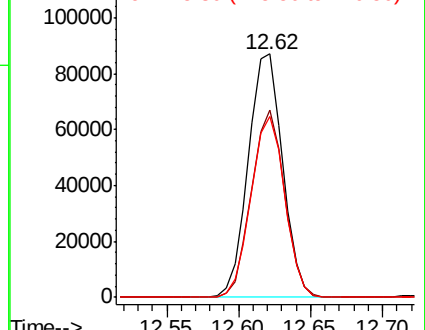
95 100

174 74.4 0.0 150.2

176 73.1 0.0 144.4



Abundance Ion 94.90 (94.60 to 95.60): VW
Ion 173.80 (173.50 to 174.50): VW
Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VW011748.D

Acq: 07 Aug 2019 13:57

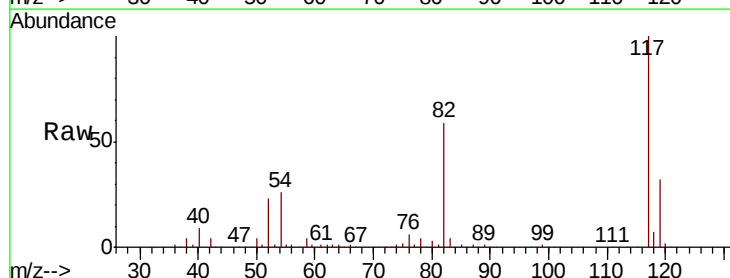
Tgt Ion: 117 Resp: 302917

Ion Ratio Lower Upper

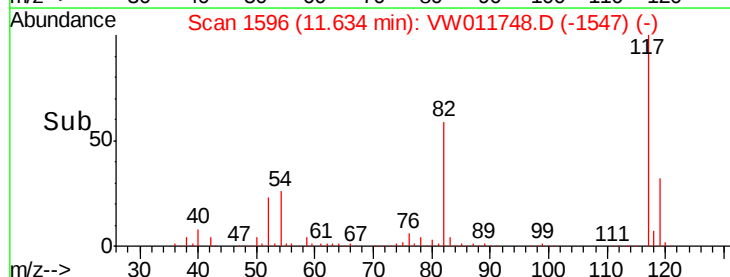
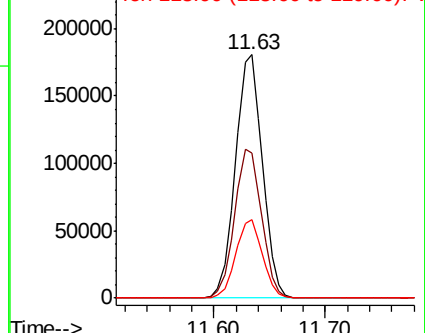
117 100

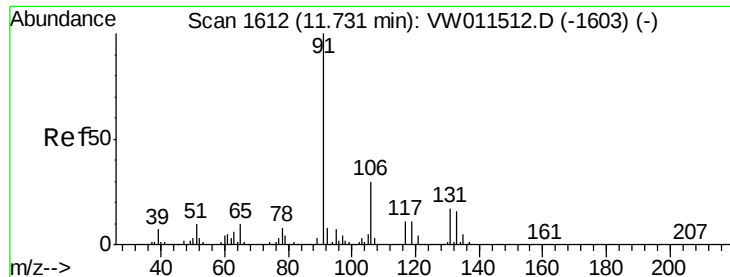
82 59.5 47.9 71.9

119 32.0 26.2 39.2



Abundance Ion 116.90 (116.60 to 117.60): VW
Ion 82.00 (81.70 to 82.70): VW
Ion 118.90 (118.60 to 119.60): VW

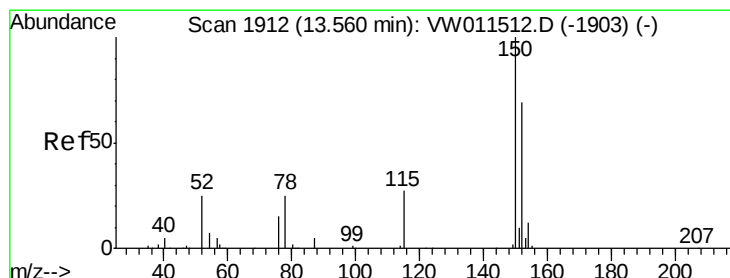
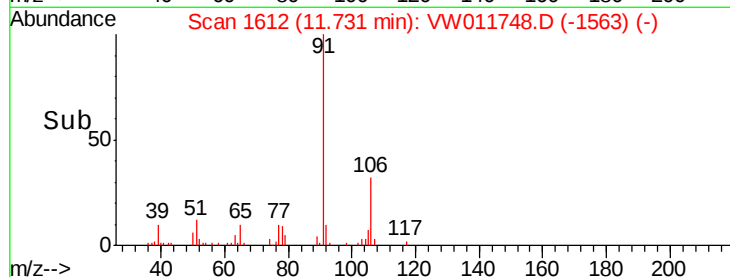
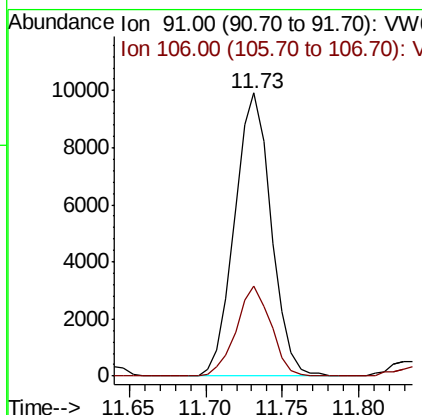
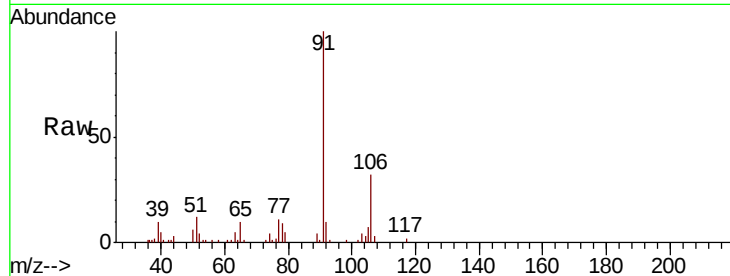




#67
Ethyl Benzene
Concen: 1.415 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW011748.D
Acq: 07 Aug 2019 13:57

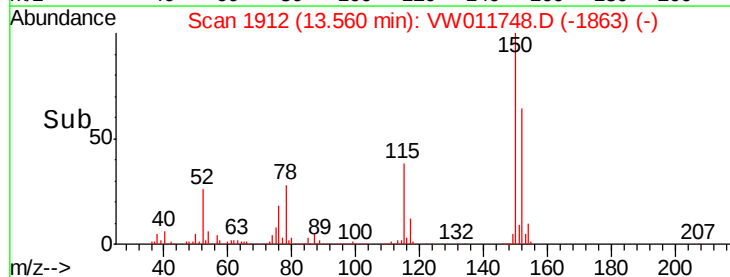
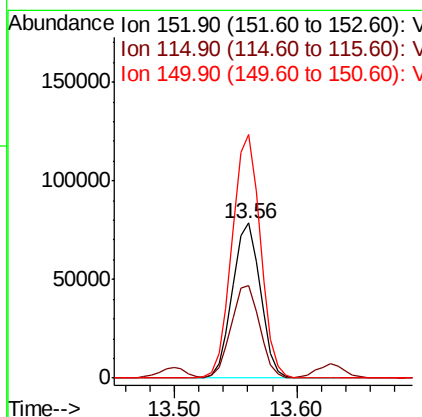
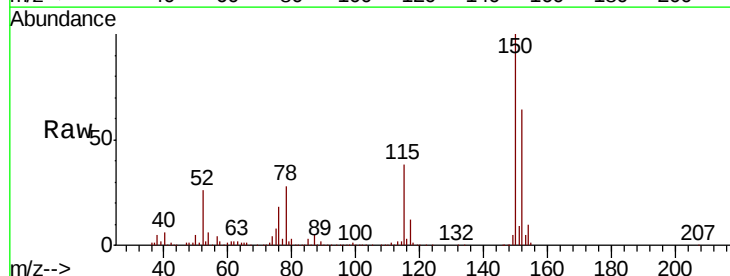
Instrument :
MSVOA_W
ClientSampled :
T-2A

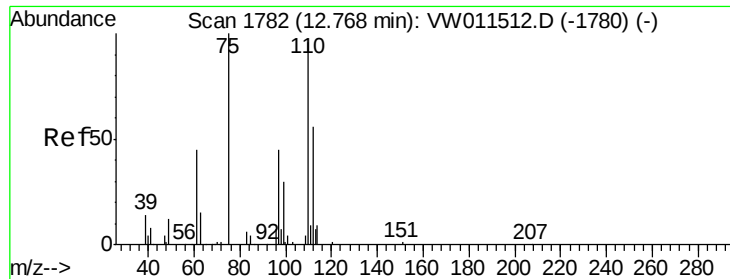
Tgt Ion: 91 Resp: 16409
Ion Ratio Lower Upper
91 100
106 32.1 23.8 35.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW011748.D
Acq: 07 Aug 2019 13:57

Tgt Ion: 152 Resp: 124248
Ion Ratio Lower Upper
152 100
115 60.8 30.5 91.5
150 158.2 0.0 352.6

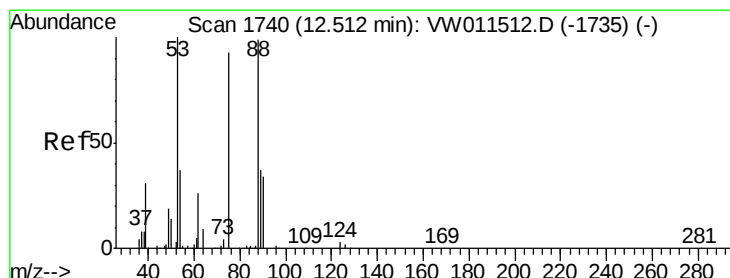
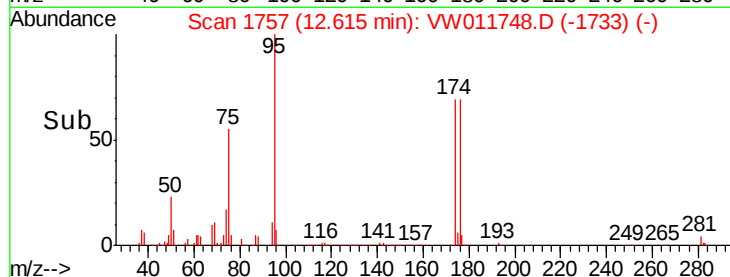
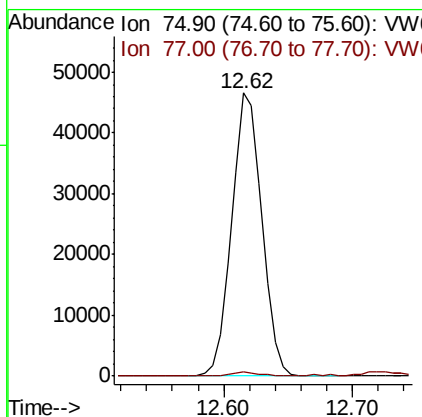
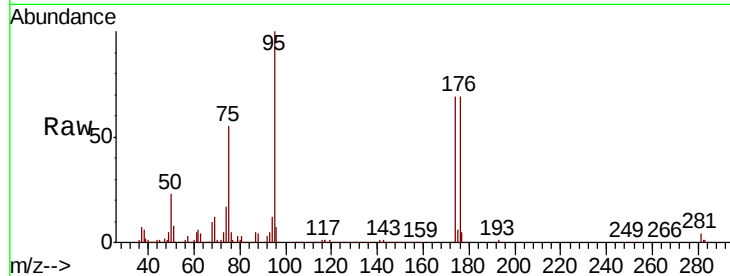




#76
 1,2,3-Trichloropropane
 Concen: 57.751 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.15 min
 Lab File: VW011748.D
 Acq: 07 Aug 2019 13:57

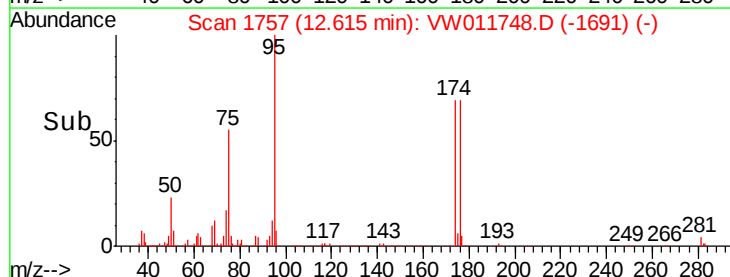
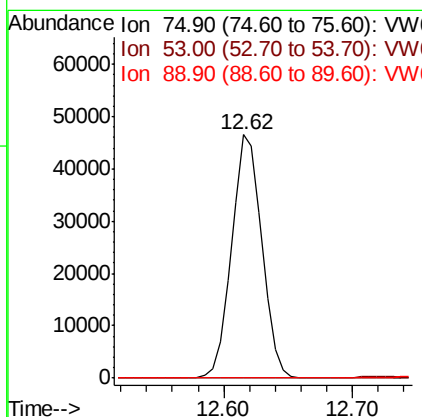
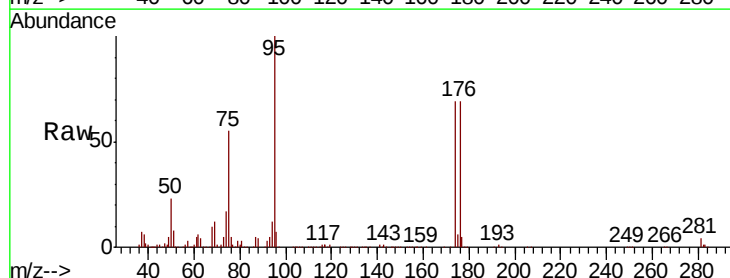
Instrument :
 MSVOA_W
 ClientSampled :
 T-2A

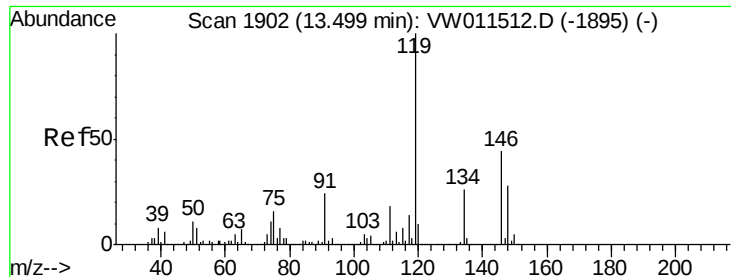
Tgt Ion: 75 Resp: 75924
 Ion Ratio Lower Upper
 75 100
 77 1.4 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 133.095 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. 0.10 min
 Lab File: VW011748.D
 Acq: 07 Aug 2019 13:57

Tgt Ion: 75 Resp: 75924
 Ion Ratio Lower Upper
 75 100
 53 0.1 88.0 132.0#
 89 0.0 35.3 52.9#





#86

p-Isopropyltoluene

Concen: 12.171 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW011748.D

Acq: 07 Aug 2019 13:57

Instrument :

MSVOA_W

ClientSampleId :

T-2A

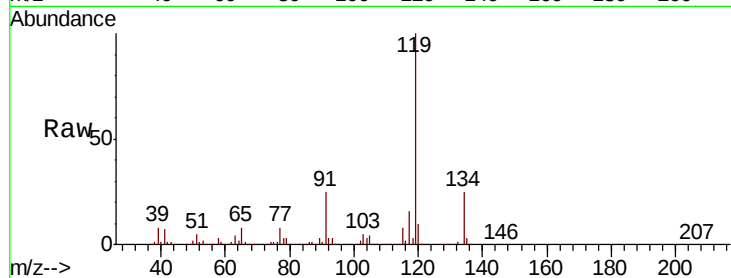
Tgt Ion:119 Resp: 102380

Ion Ratio Lower Upper

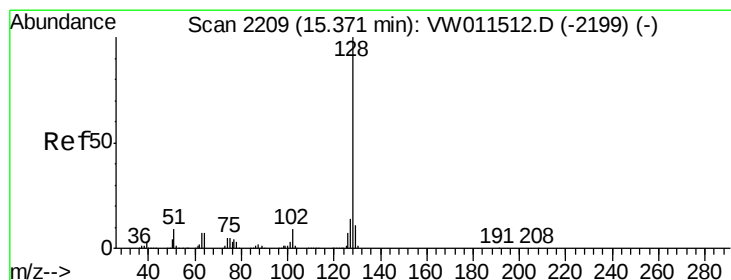
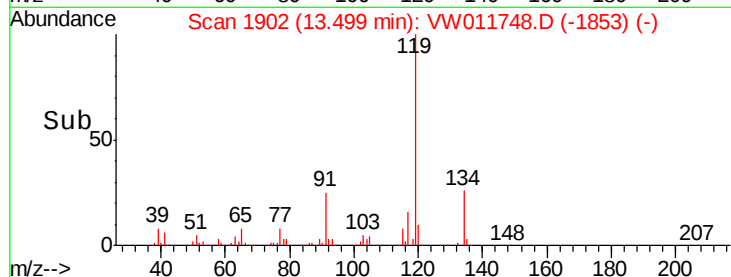
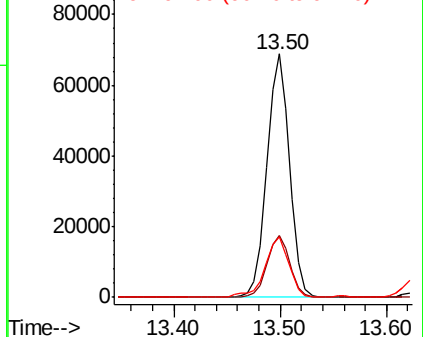
119 100

134 25.5 12.8 38.4

91 26.8 12.1 36.3



Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): V



#95

Naphthalene

Concen: 2.244 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. -0.01 min

Lab File: VW011748.D

Acq: 07 Aug 2019 13:57

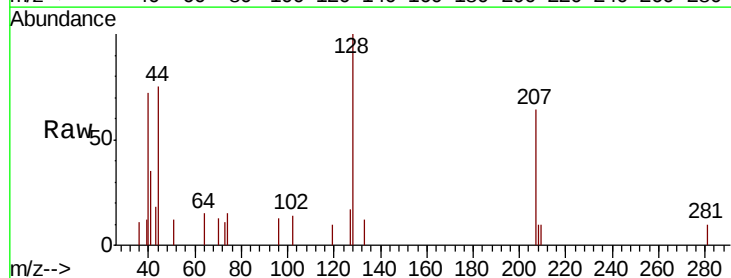
Tgt Ion:128 Resp: 911

Ion Ratio Lower Upper

128 100

127 6.6 10.6 16.0#

129 4.5 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

