

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW081619\
 Data File : VW011947.D
 Acq On : 16 Aug 2019 00:19
 Operator : SY/VA
 Sample : K4339-12
 Misc : 6.03G/5ML/MSVOA_W/SOIL
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 T8-B1-(4)

Quant Time: Aug 16 04:37:28 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

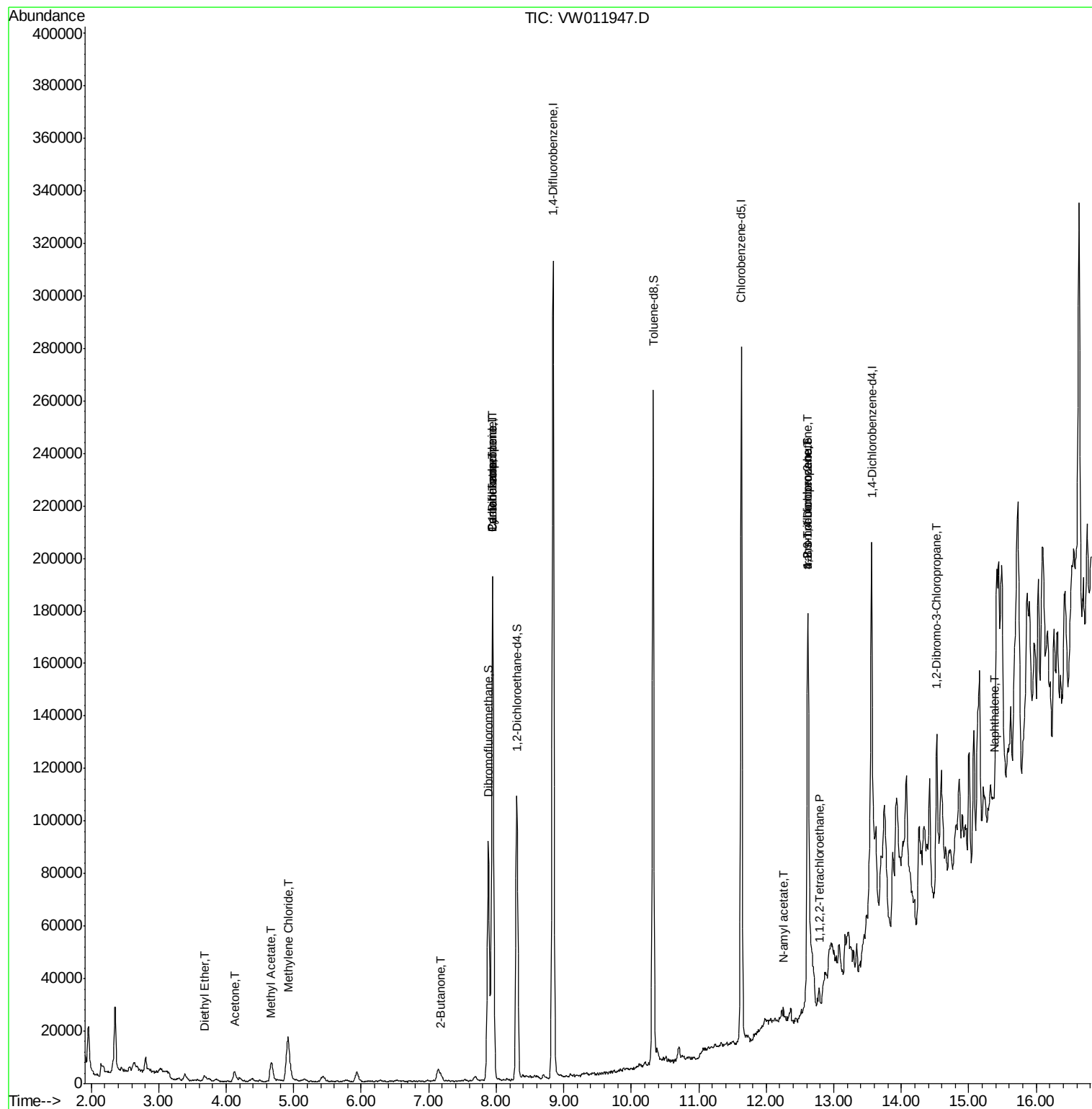
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	136806	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	242233	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	138588	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	31325	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	84590	53.85	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.70%	
35) Dibromofluoromethane	7.88	113	63639	46.83	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.66%	
50) Toluene-d8	10.32	98	158761	28.53	ug/l	0.00
Spiked Amount 50.000			Recovery	=	57.06%	
62) 4-Bromofluorobenzene	12.62	95	41814	21.08	ug/l	0.00
Spiked Amount 50.000			Recovery	=	42.16%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.67	74	1027	1.273	ug/l	88
11) Tert butyl alcohol	5.17	59	1318	Below Cal	#	86
16) Acetone	4.12	43	7512	15.033	ug/l	100
18) Methyl Acetate	4.67	43	16413	14.621	ug/l	96
20) Methylene Chloride	4.92	84	12938	7.507	ug/l	98
25) 2-Butanone	7.18	43	3715	5.681	ug/l	97
31) Cyclohexane	7.95	56	3920	1.335	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	12129	4.815	ug/l #	52
38) Carbon Tetrachloride	7.95	117	13606	6.310	ug/l #	18
74) N-amyl acetate	12.24	43	939	1.283	ug/l #	40
75) 1,1,2,2-Tetrachloroethane	12.78	83	655	1.490	ug/l #	53
76) 1,2,3-Trichloropropane	12.62	75	20702	62.458	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	20702	143.944	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.52	75	144	1.921	ug/l #	50
95) Naphthalene	15.37	128	591	2.524	ug/l #	66

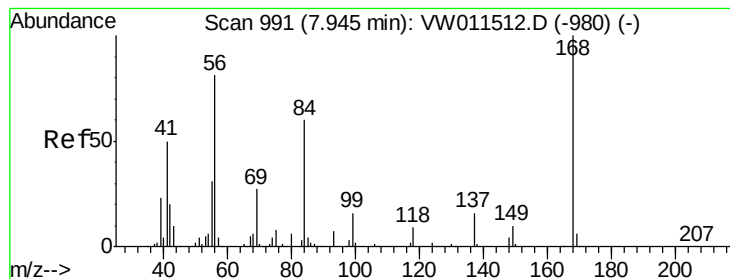
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW011947.D

Acq: 16 Aug 2019 00:19

Instrument :

MSVOA_W

ClientSampleId :

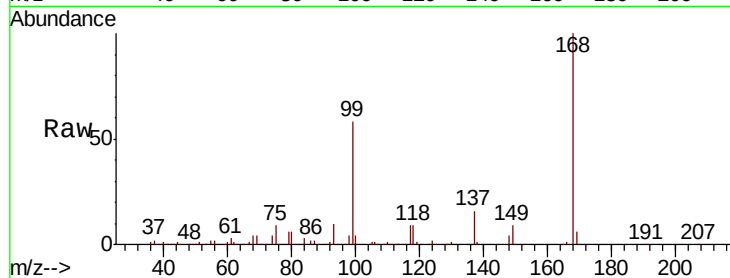
T8-B1-(4)

Tgt Ion:168 Resp: 136806

Ion Ratio Lower Upper

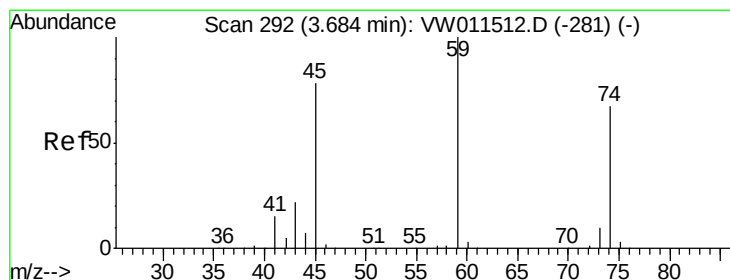
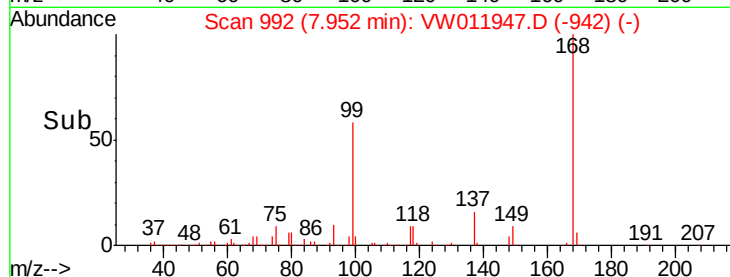
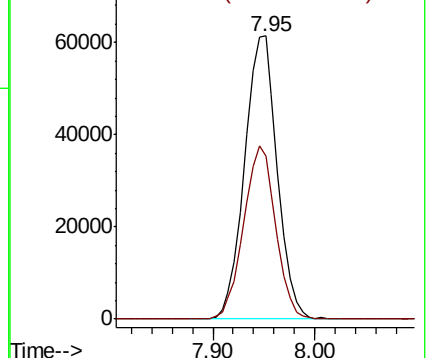
168 100

99 57.8 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 1.273 ug/l

RT: 3.67 min Scan# 290

Delta R.T. -0.01 min

Lab File: VW011947.D

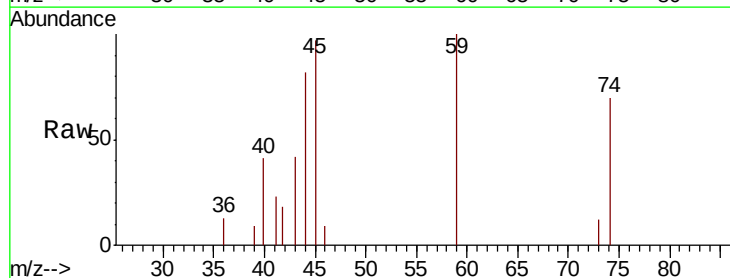
Acq: 16 Aug 2019 00:19

Tgt Ion: 74 Resp: 1027

Ion Ratio Lower Upper

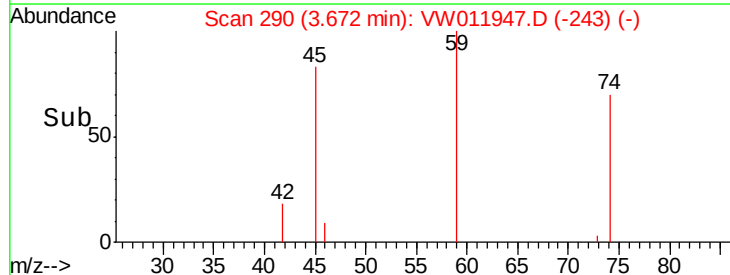
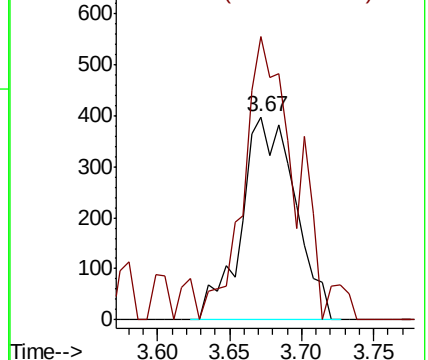
74 100

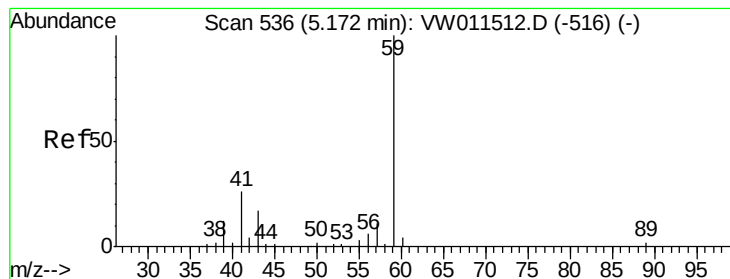
45 132.0 59.6 178.8



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW





#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.17 min Scan# 535

Delta R.T. -0.01 min

Lab File: VW011947.D

Acq: 16 Aug 2019 00:19

Instrument :

MSVOA_W

ClientSampleId :

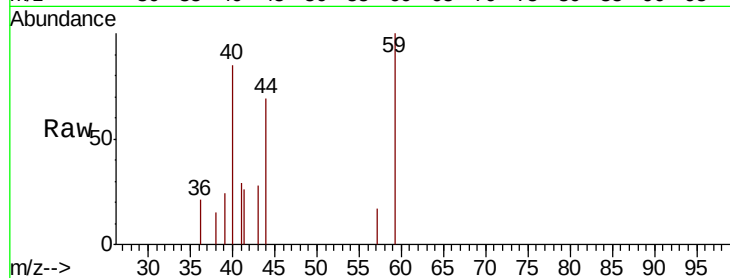
T8-B1-(4)

Tgt Ion: 59 Resp: 1318

Ion Ratio Lower Upper

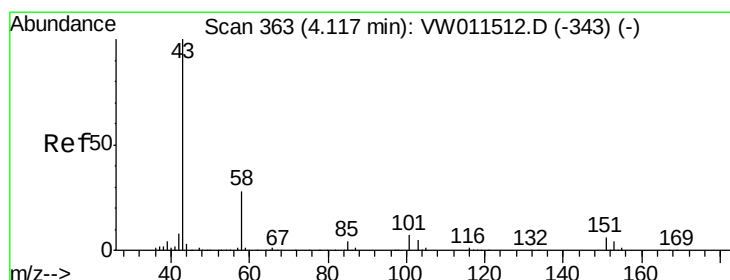
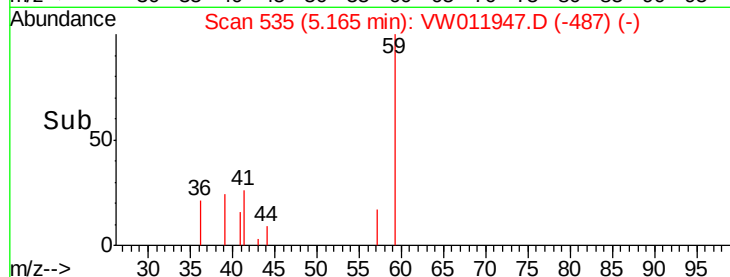
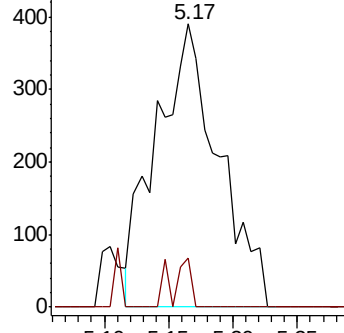
59 100

57 5.2 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: 15.033 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW011947.D

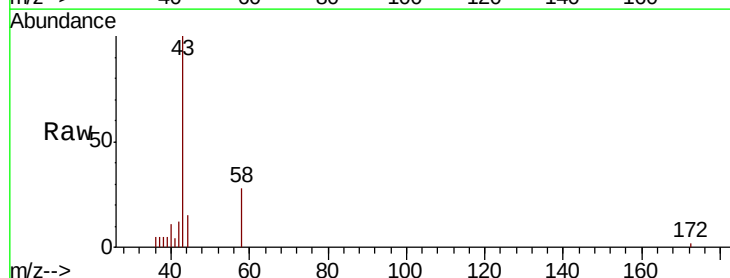
Acq: 16 Aug 2019 00:19

Tgt Ion: 43 Resp: 7512

Ion Ratio Lower Upper

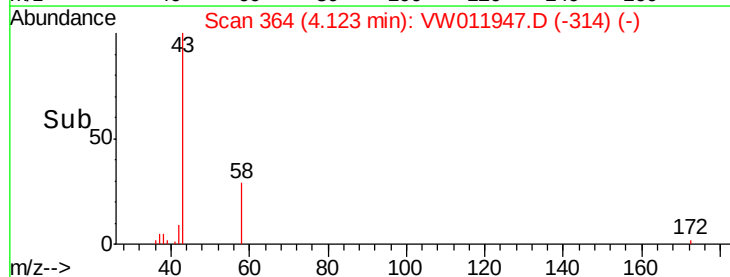
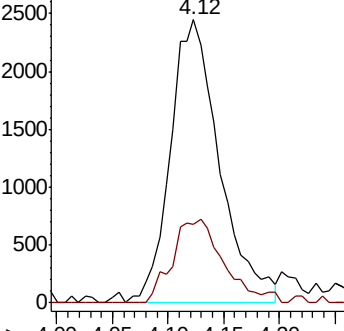
43 100

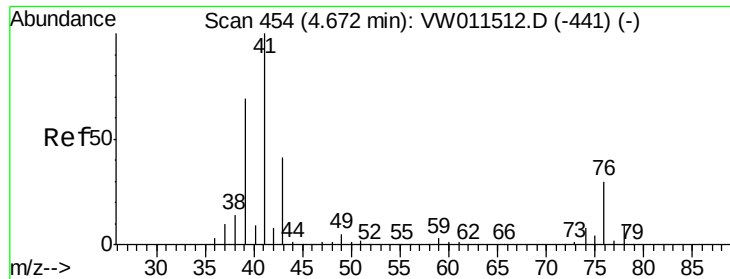
58 27.7 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

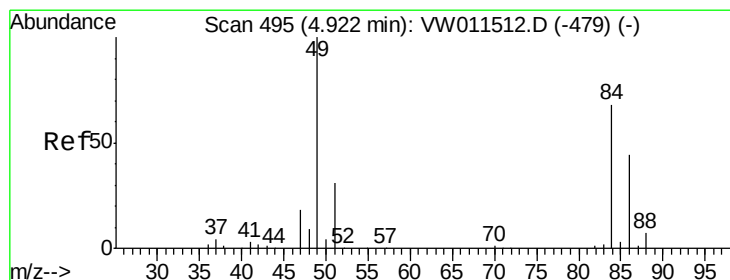
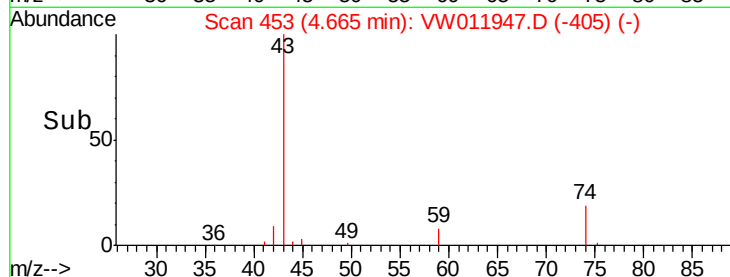
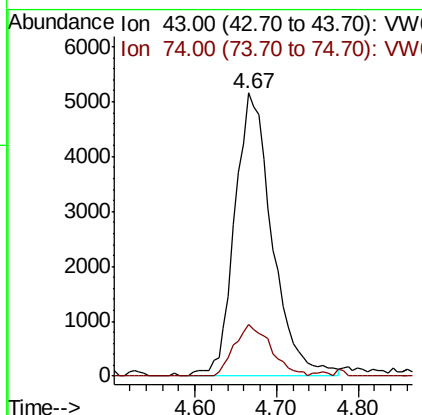
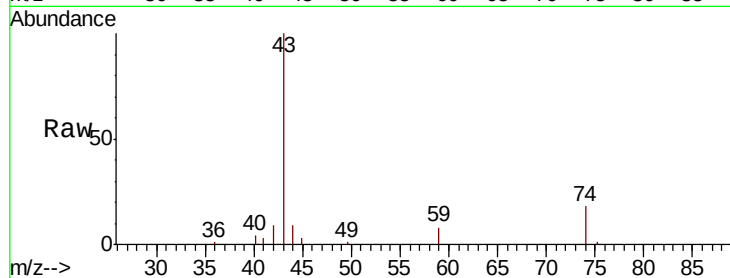




#18
Methyl Acetate
Concen: 14.621 ug/l
RT: 4.67 min Scan# 453
Delta R.T. -0.01 min
Lab File: VW011947.D
Acq: 16 Aug 2019 00:19

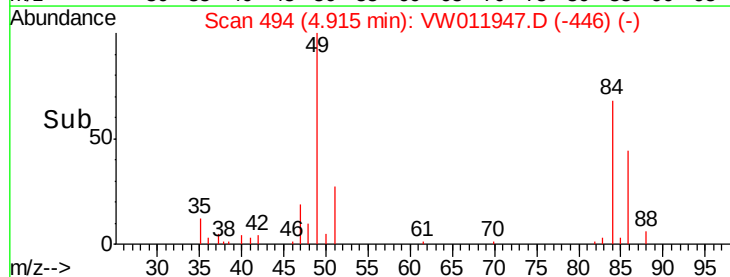
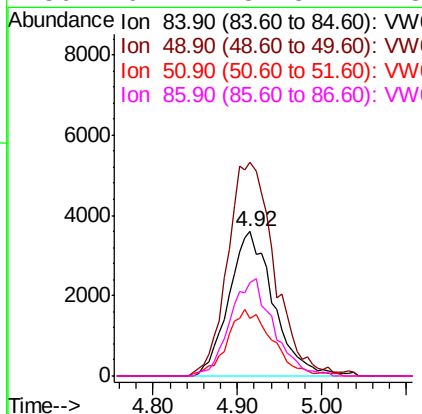
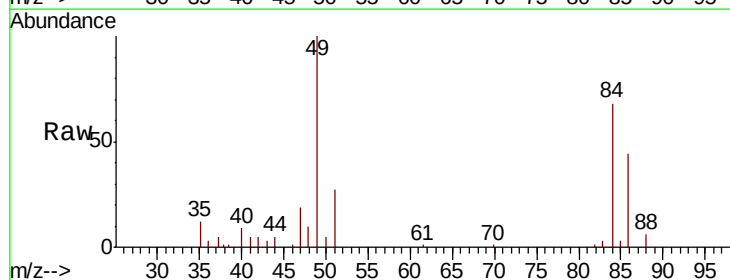
Instrument :
MSVOA_W
ClientSampleId :
T8-B1-(4)

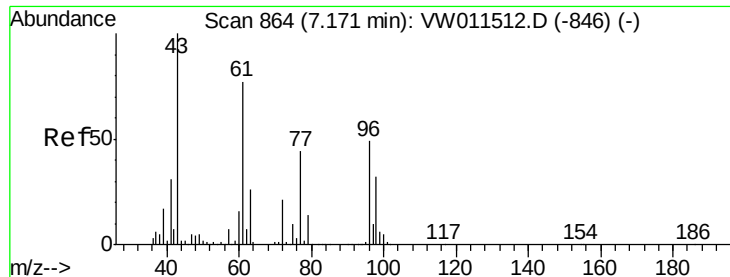
Tgt Ion: 43 Resp: 16413
Ion Ratio Lower Upper
43 100
74 17.8 15.9 23.9



#20
Methylene Chloride
Concen: 7.507 ug/l
RT: 4.92 min Scan# 494
Delta R.T. -0.01 min
Lab File: VW011947.D
Acq: 16 Aug 2019 00:19

Tgt Ion: 84 Resp: 12938
Ion Ratio Lower Upper
84 100
49 147.9 117.8 176.6
51 39.8 37.0 55.4
86 64.4 51.8 77.8





#25

2-Butanone

Concen: 5.681 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW011947.D

Acq: 16 Aug 2019 00:19

Instrument :

MSVOA_W

ClientSampled :

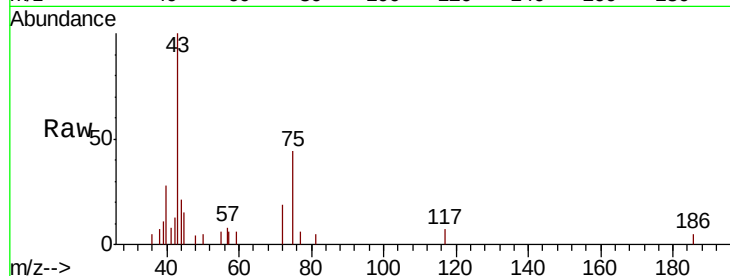
T8-B1-(4)

Tgt Ion: 43 Resp: 3715

Ion Ratio Lower Upper

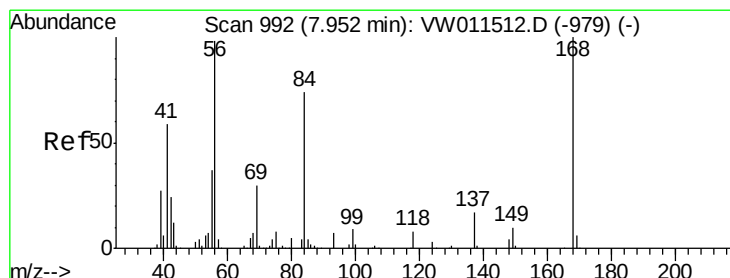
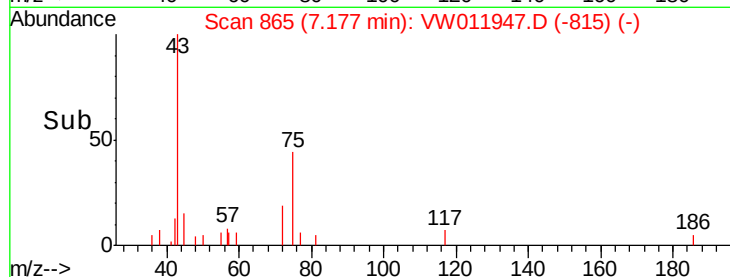
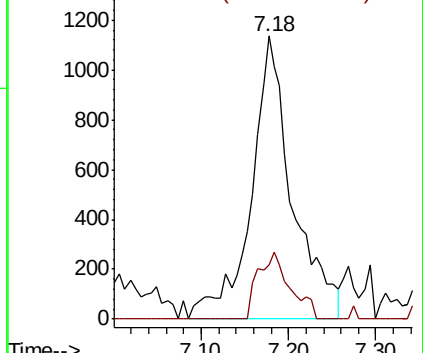
43 100

72 19.3 16.6 24.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#31

Cyclohexane

Concen: 1.335 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW011947.D

Acq: 16 Aug 2019 00:19

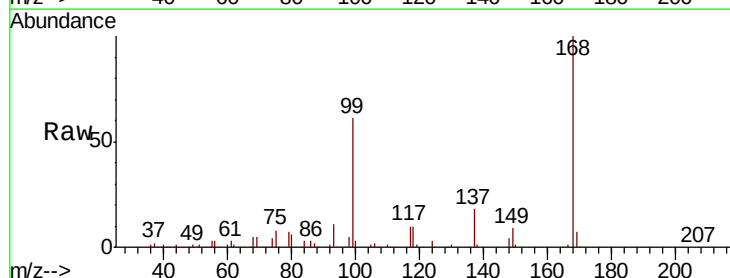
Tgt Ion: 56 Resp: 3920

Ion Ratio Lower Upper

56 100

69 161.5 24.3 36.5#

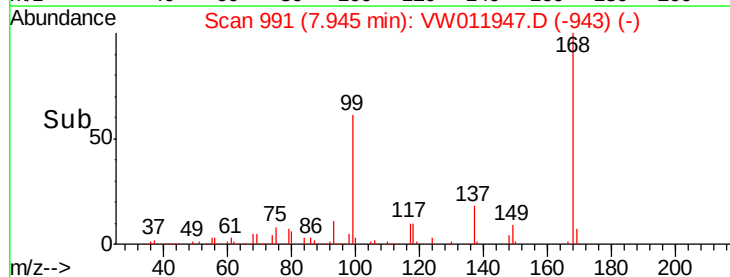
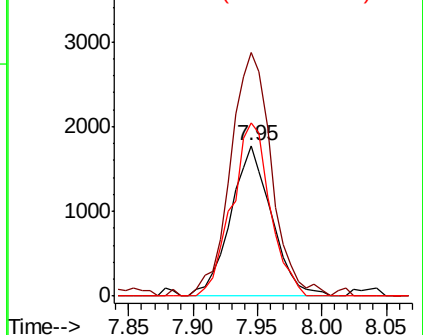
84 114.6 60.4 90.6#

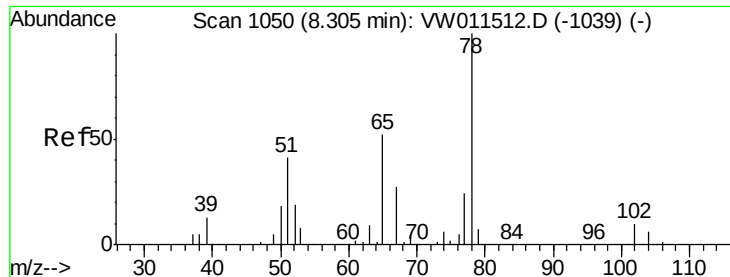


Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW

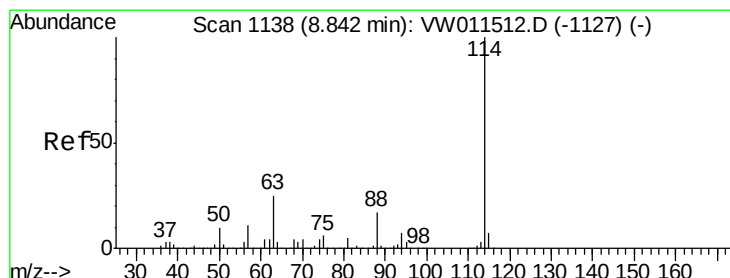
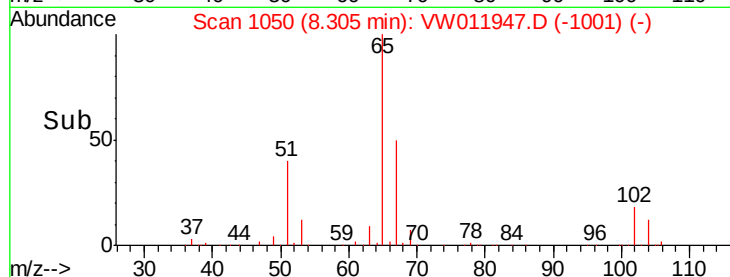
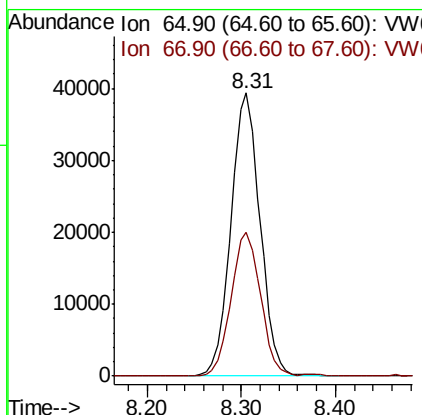
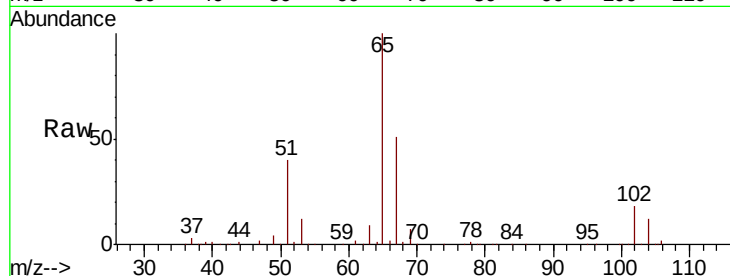




#33
 1,2-Dichloroethane-d4
 Concen: 53.848 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW011947.D
 Acq: 16 Aug 2019 00:19

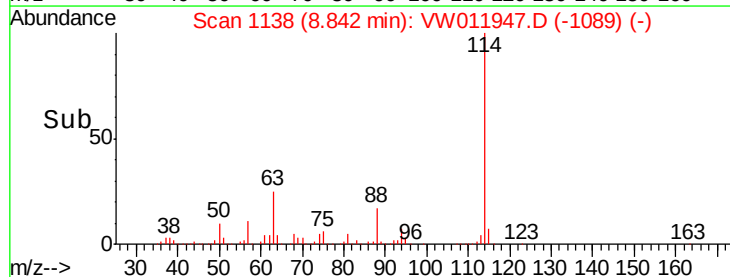
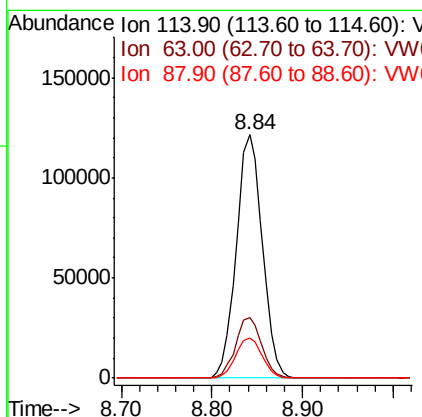
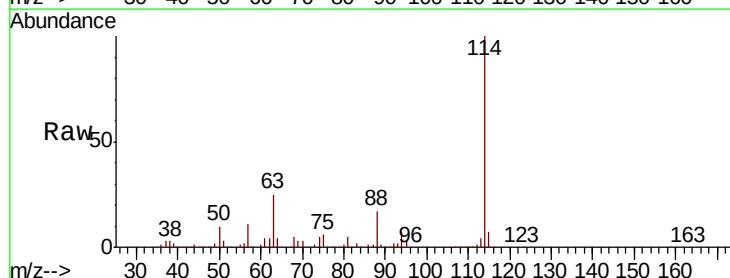
Instrument :
 MSVOA_W
 ClientSampleId :
 T8-B1-(4)

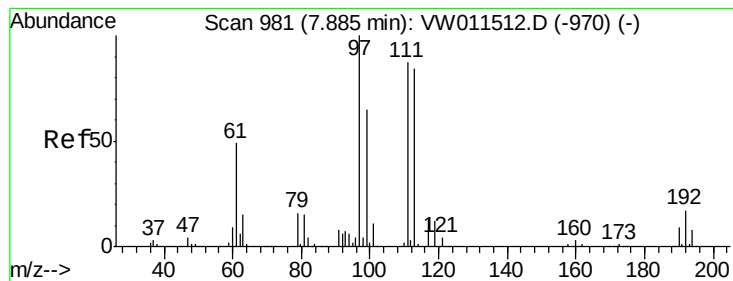
Tgt Ion: 65 Resp: 84590
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW011947.D
 Acq: 16 Aug 2019 00:19

Tgt Ion: 114 Resp: 242233
 Ion Ratio Lower Upper
 114 100
 63 25.0 0.0 49.2
 88 16.5 0.0 33.8





#35

Dibromofluoromethane

Concen: 46.829 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW011947.D

Acq: 16 Aug 2019 00:19

Instrument :

MSVOA_W

ClientSampleId :

T8-B1-(4)

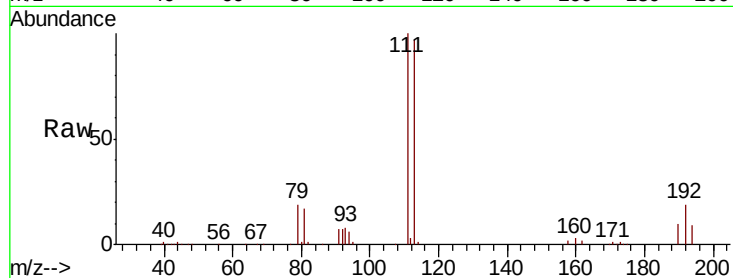
Tgt Ion:113 Resp: 63639

Ion Ratio Lower Upper

113 100

111 103.3 82.7 124.1

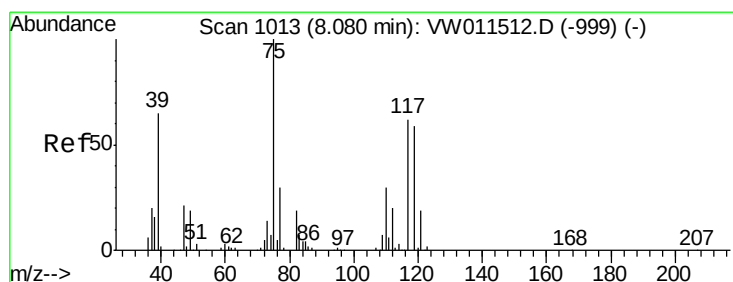
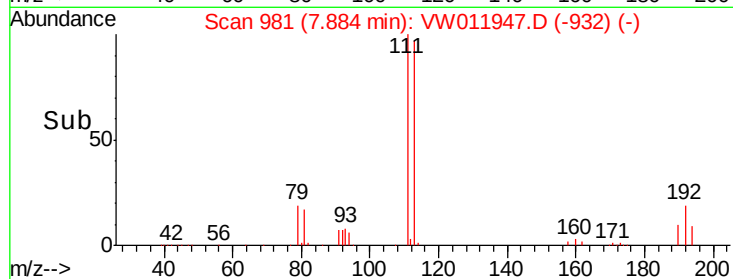
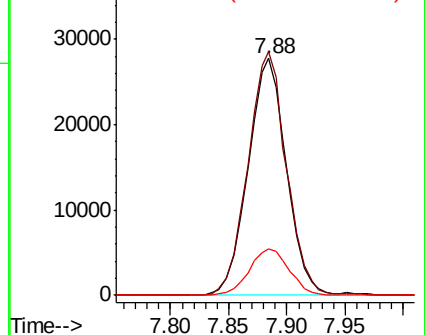
192 20.3 16.1 24.1



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.815 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.13 min

Lab File: VW011947.D

Acq: 16 Aug 2019 00:19

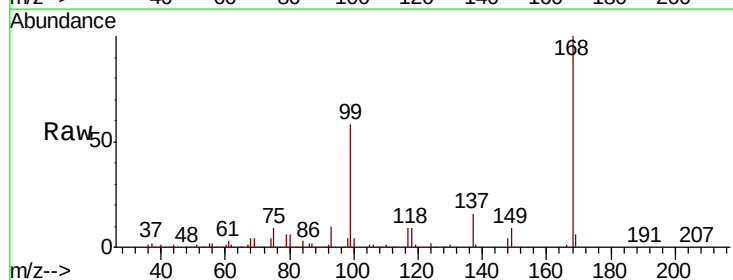
Tgt Ion: 75 Resp: 12129

Ion Ratio Lower Upper

75 100

110 8.5 15.6 46.8#

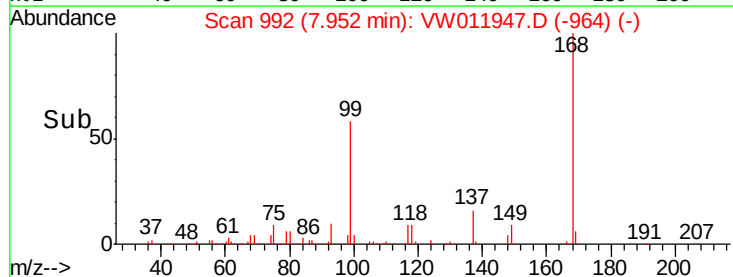
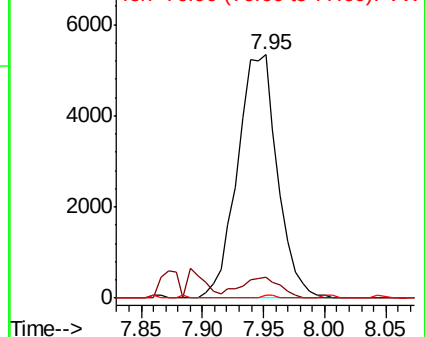
77 0.4 24.3 36.5#

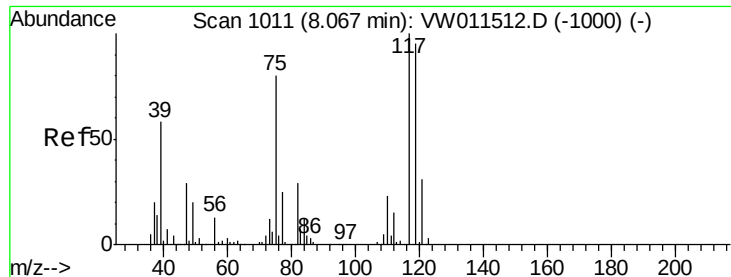


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 6.310 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW011947.D

Acq: 16 Aug 2019 00:19

Instrument :

MSVOA_W

ClientSampleId :

T8-B1-(4)

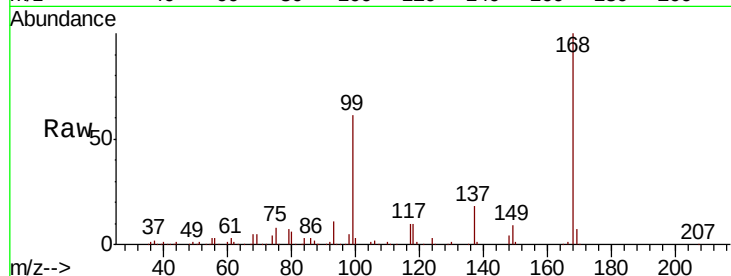
Tgt Ion:117 Resp: 13606

Ion Ratio Lower Upper

117 100

119 7.0 75.8 113.6#

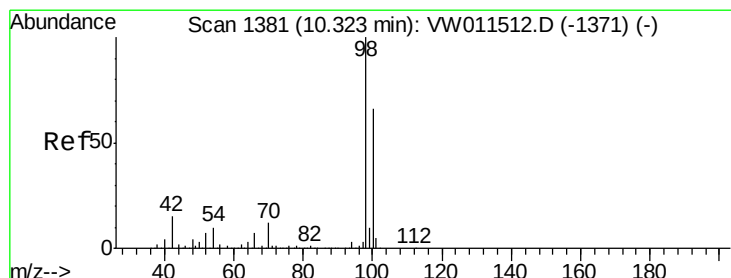
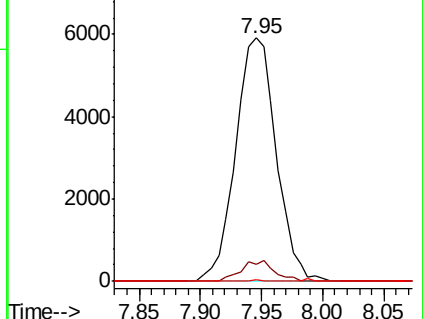
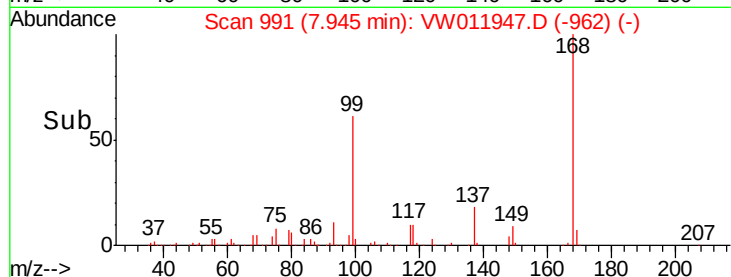
121 0.9 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 28.533 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW011947.D

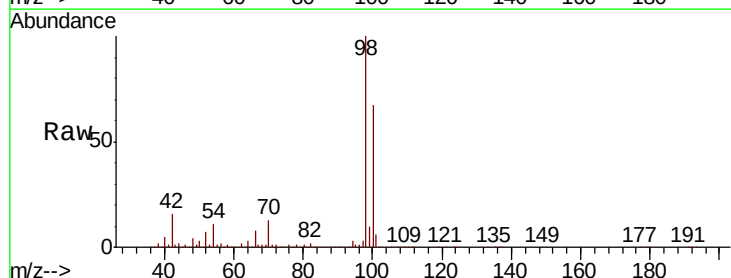
Acq: 16 Aug 2019 00:19

Tgt Ion: 98 Resp: 158761

Ion Ratio Lower Upper

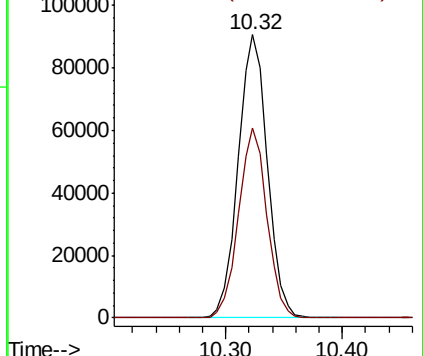
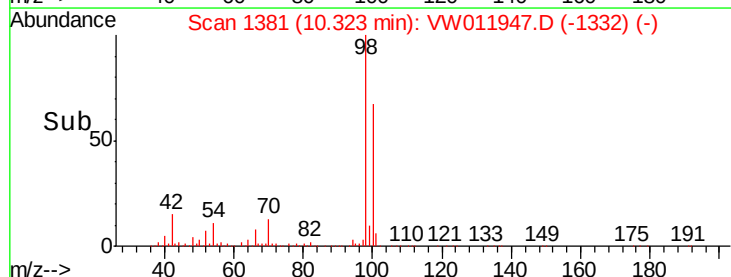
98 100

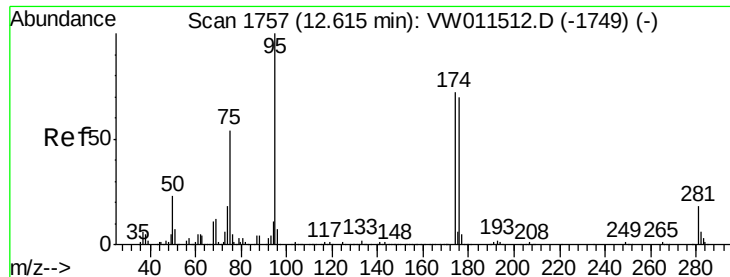
100 65.1 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#62

4-Bromofluorobenzene

Concen: 21.079 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW011947.D

Acq: 16 Aug 2019 00:19

Instrument :

MSVOA_W

ClientSampleId :

T8-B1-(4)

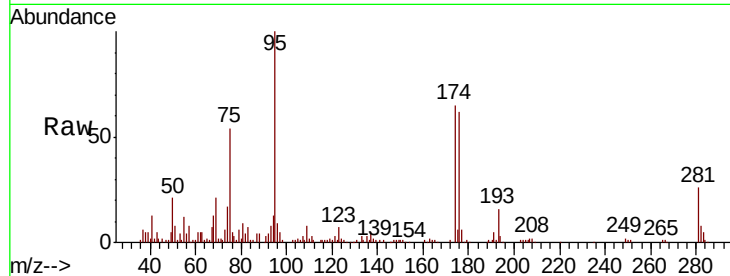
Tgt Ion: 95 Resp: 41814

Ion Ratio Lower Upper

95 100

174 67.8 0.0 150.2

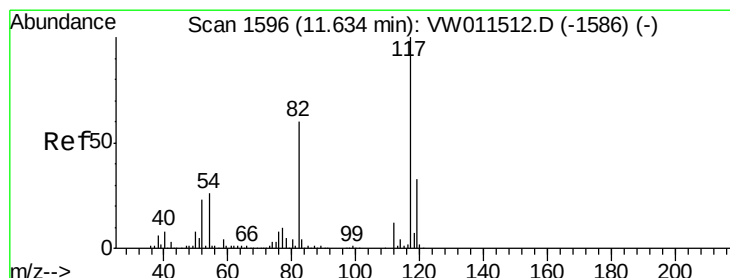
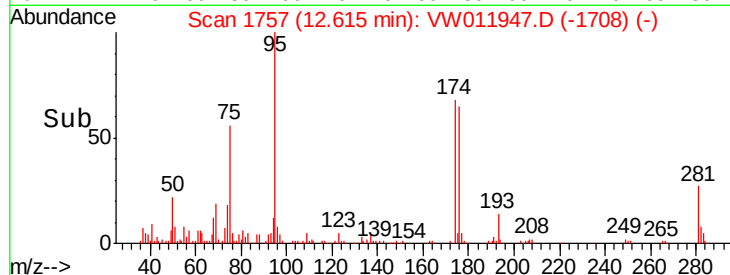
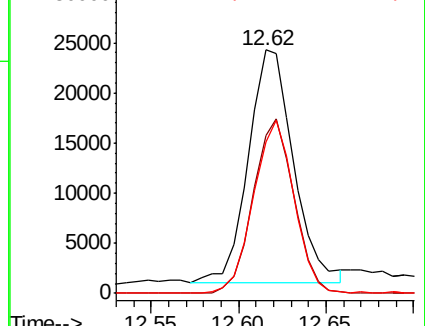
176 66.8 0.0 144.4



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: VW011947.D

Acq: 16 Aug 2019 00:19

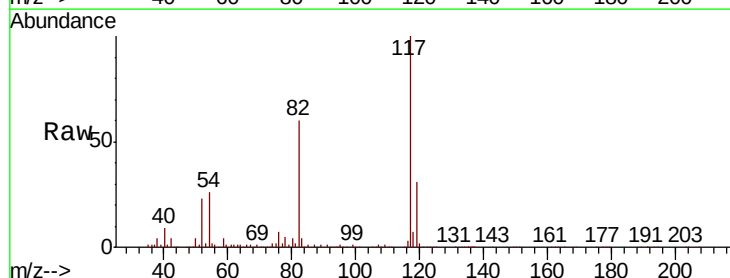
Tgt Ion: 117 Resp: 138588

Ion Ratio Lower Upper

117 100

82 59.9 47.9 71.9

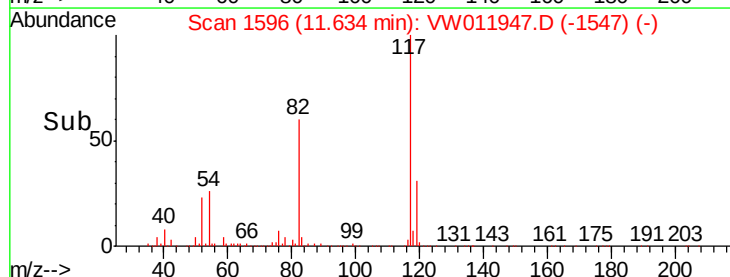
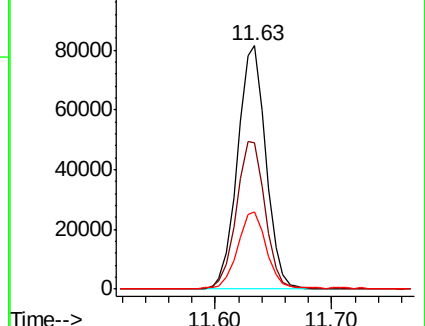
119 31.2 26.2 39.2

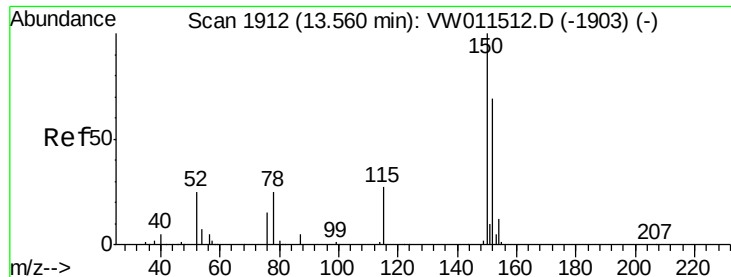


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW011947.D

Acq: 16 Aug 2019 00:19

Instrument :

MSVOA_W

ClientSampleId :

T8-B1-(4)

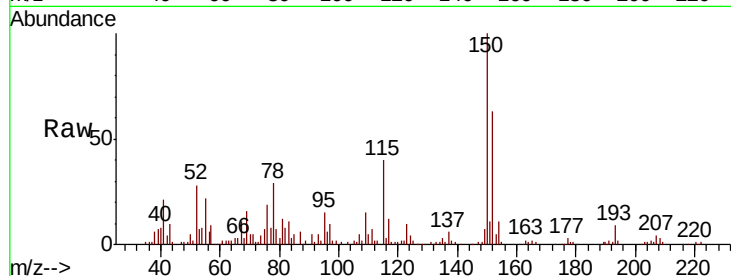
Tgt Ion:152 Resp: 31325

Ion Ratio Lower Upper

152 100

115 54.7 30.5 91.5

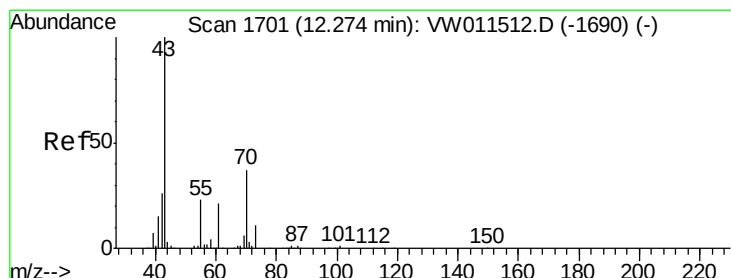
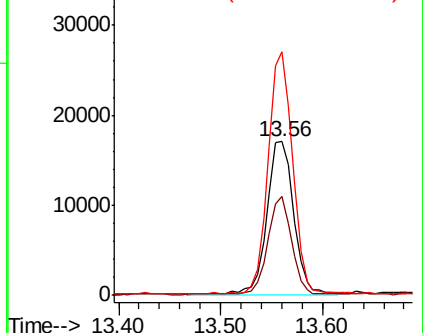
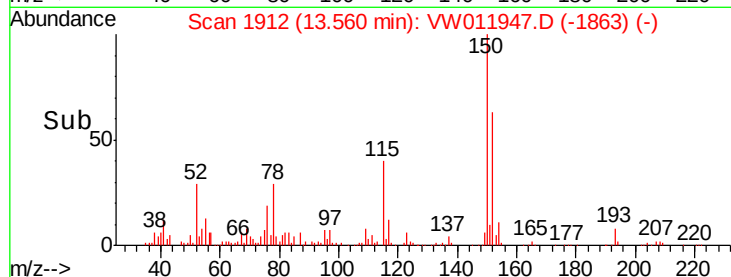
150 142.0 0.0 352.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 1.283 ug/l

RT: 12.24 min Scan# 1696

Delta R.T. -0.03 min

Lab File: VW011947.D

Acq: 16 Aug 2019 00:19

Tgt Ion: 43 Resp: 939

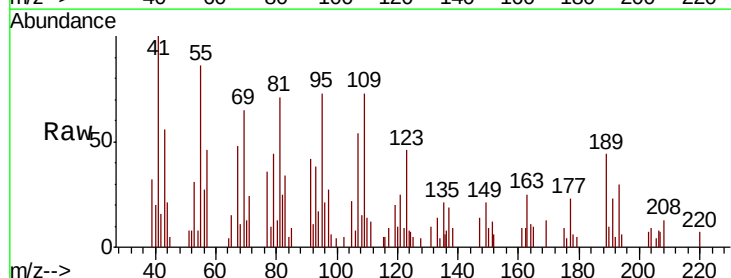
Ion Ratio Lower Upper

43 100

70 30.2 28.6 43.0

55 95.8 17.8 26.8#

61 0.0 17.0 25.6#

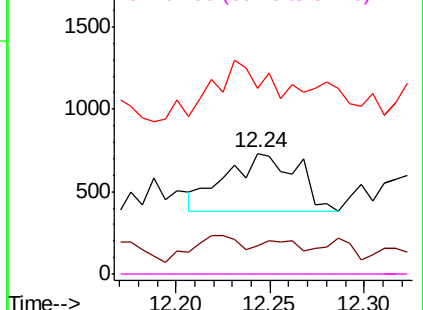
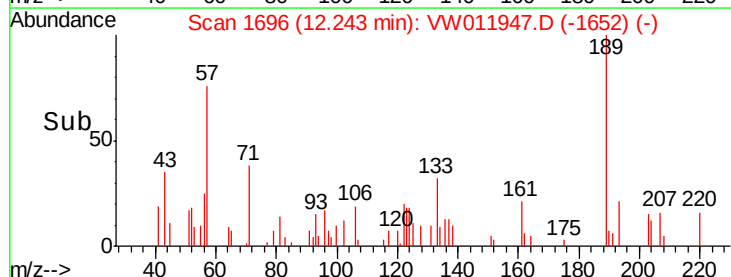


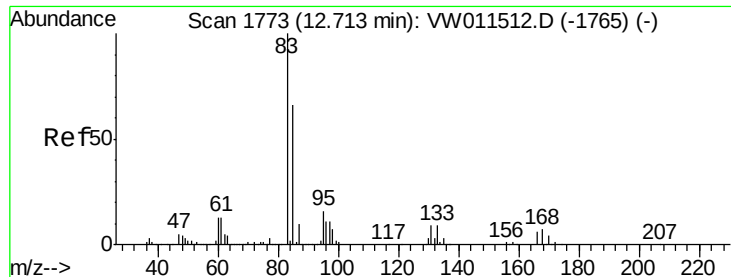
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW





#75

1,1,2,2-Tetrachloroethane

Concen: 1.490 ug/l

RT: 12.78 min Scan# 1784

Delta R.T. 0.07 min

Lab File: VW011947.D

Acq: 16 Aug 2019 00:19

Instrument :

MSVOA_W

ClientSampled :

T8-B1-(4)

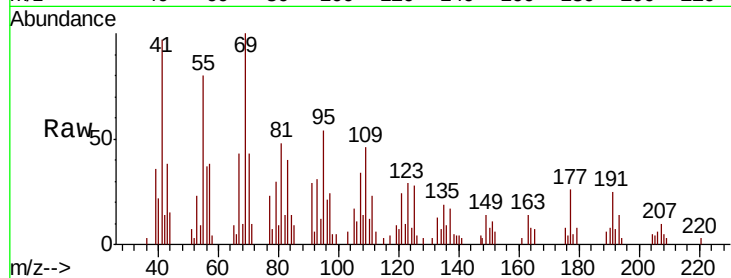
Tgt Ion: 83 Resp: 655

Ion Ratio Lower Upper

83 100

131 11.1 4.9 14.6

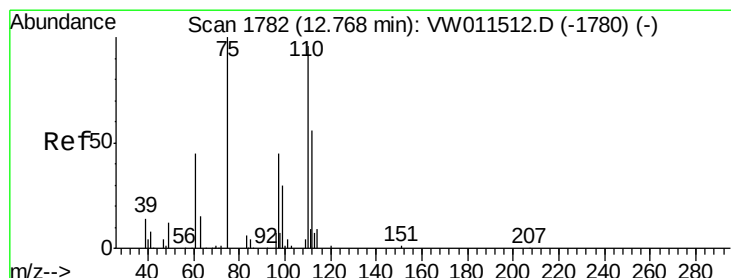
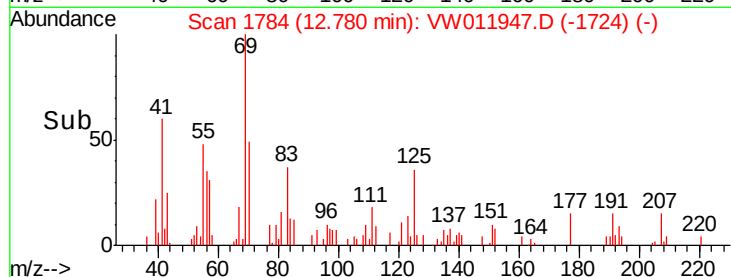
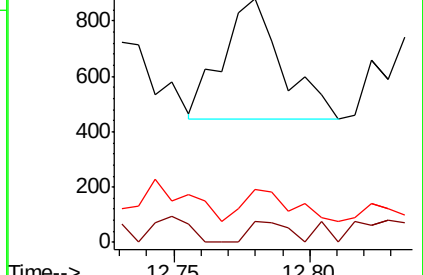
85 21.8 31.8 95.4#



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): VW

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 62.458 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW011947.D

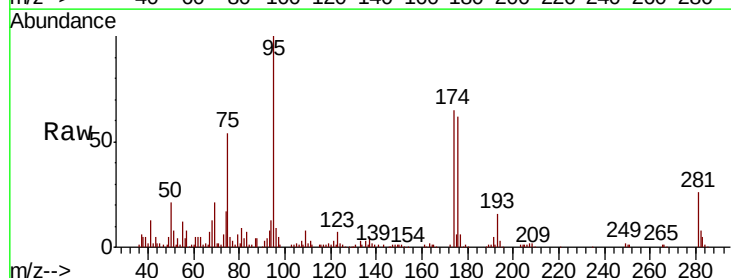
Acq: 16 Aug 2019 00:19

Tgt Ion: 75 Resp: 20702

Ion Ratio Lower Upper

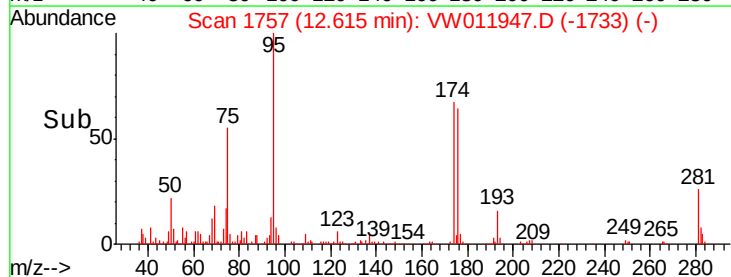
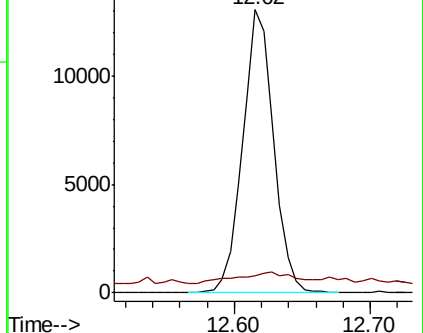
75 100

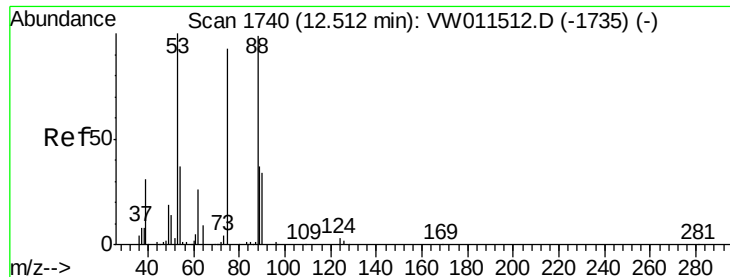
77 7.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 143.944 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW011947.D

Acq: 16 Aug 2019 00:19

Instrument :

MSVOA_W

ClientSampleId :

T8-B1-(4)

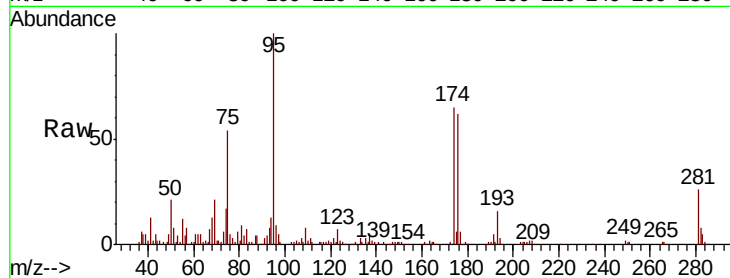
Tgt Ion: 75 Resp: 20702

Ion Ratio Lower Upper

75 100

53 6.9 88.0 132.0#

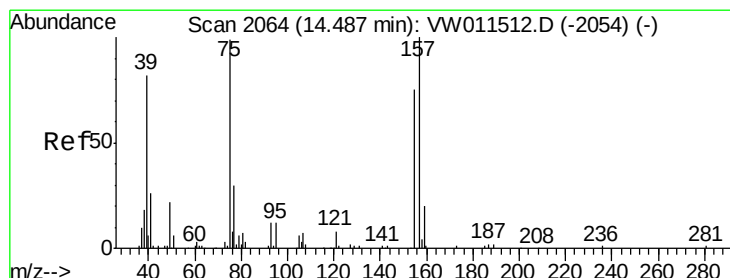
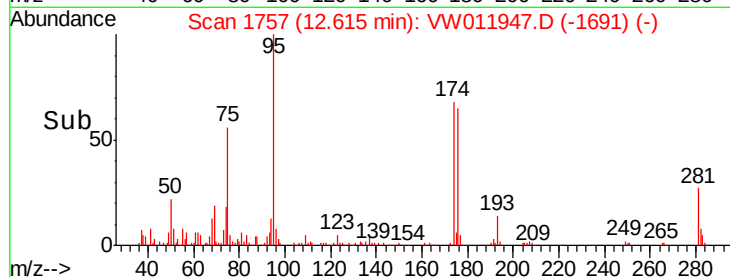
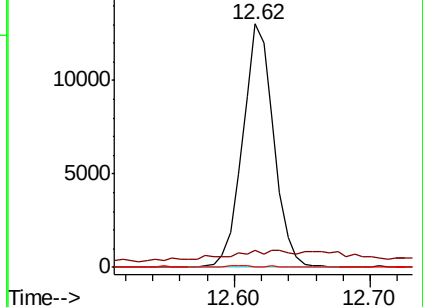
89 0.1 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.921 ug/l

RT: 14.52 min Scan# 2069

Delta R.T. 0.03 min

Lab File: VW011947.D

Acq: 16 Aug 2019 00:19

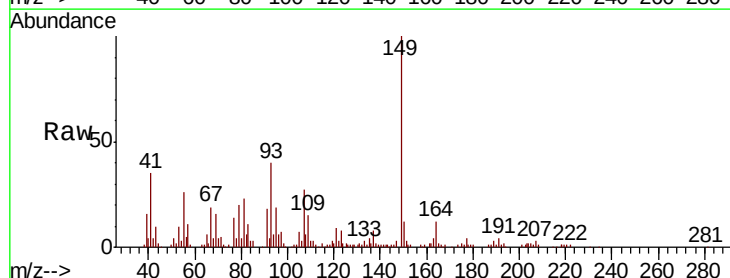
Tgt Ion: 75 Resp: 144

Ion Ratio Lower Upper

75 100

155 13.2 38.2 114.6#

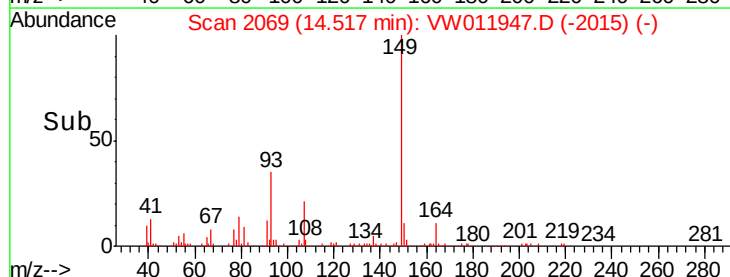
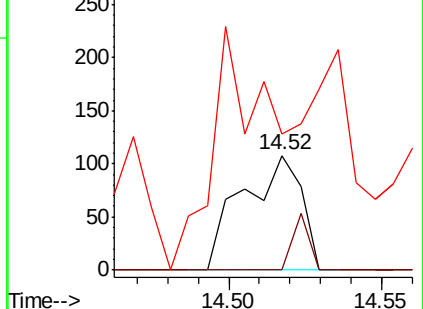
157 67.4 48.9 146.7

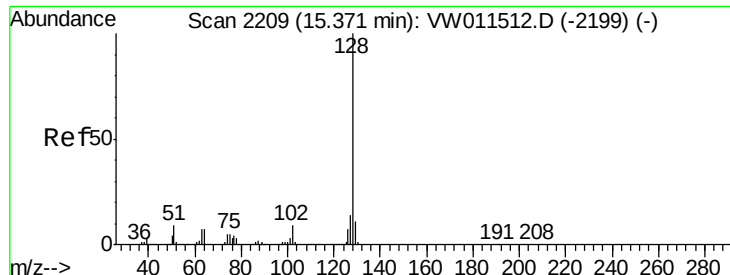


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 2.524 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW011947.D

Acq: 16 Aug 2019 00:19

Instrument :

MSVOA_W

ClientSampleId :

T8-B1-(4)

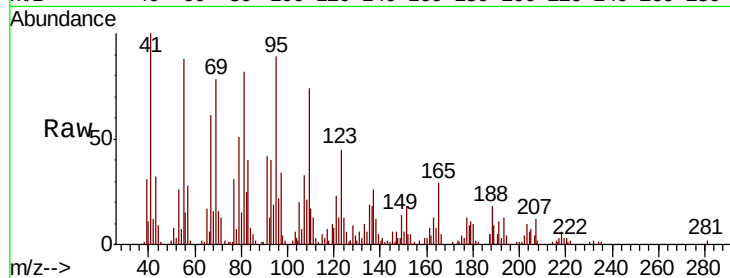
Tgt Ion:128 Resp: 591

Ion Ratio Lower Upper

128 100

127 28.8 10.6 16.0#

129 0.0 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

