

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW090119\
 Data File : VW012477.D
 Acq On : 02 Sep 2019 04:59
 Operator : SY/VA
 Sample : K4528-03
 Misc : 3.92G/5ML/MSVOA_W/SOIL
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 T9-12-13-Q4-(0)

Quant Time: Sep 02 07:26:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W082319S.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 26 07:18:31 2019
 Response via : Initial Calibration

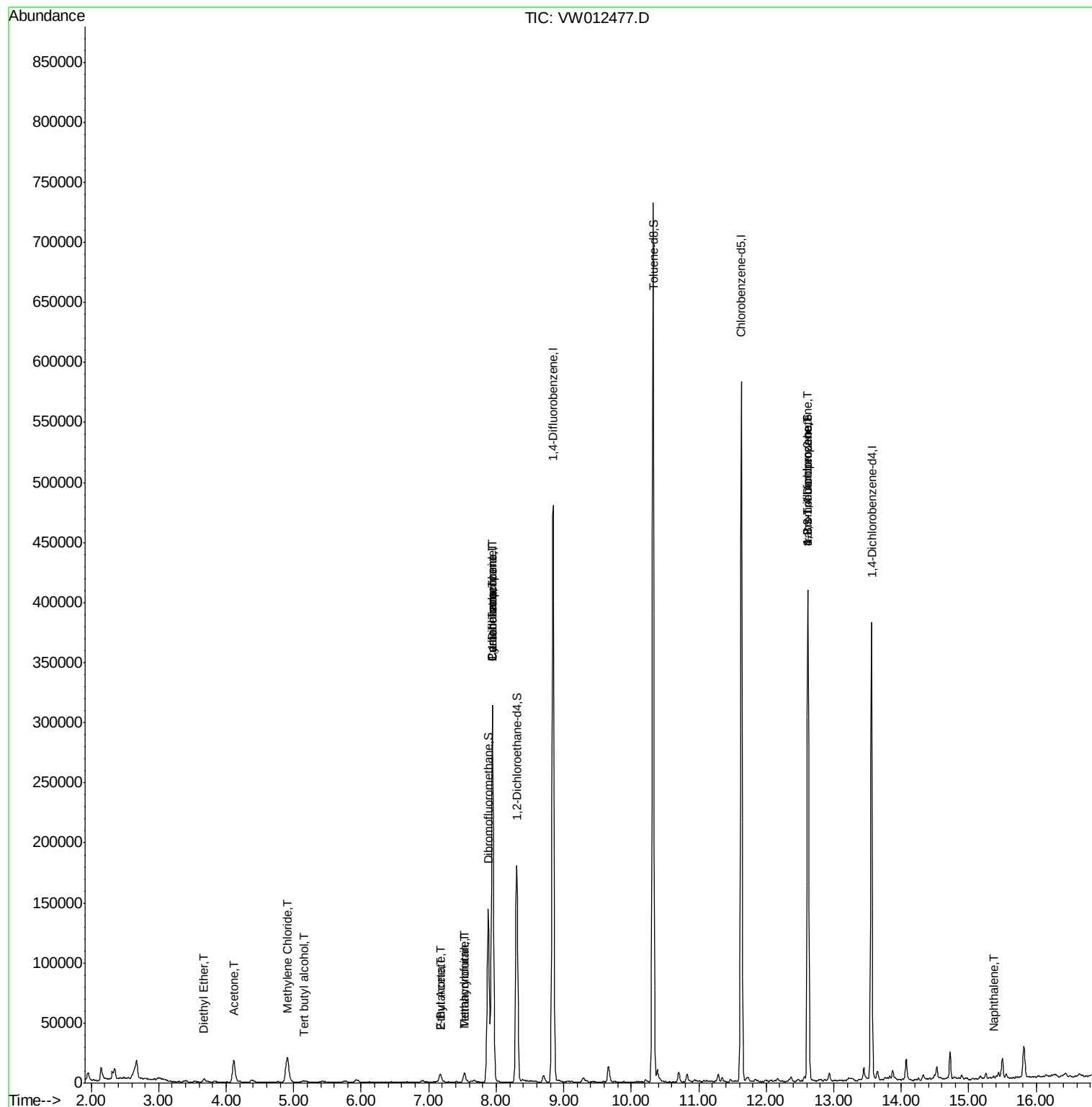
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	226637	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	378243	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	301118	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	95063	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	150492	55.86	ug/l	0.00
Spiked Amount 50.000			Recovery	=	111.72%	
35) Dibromofluoromethane	7.88	113	102369	45.34	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.68%	
50) Toluene-d8	10.32	98	460655	50.32	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.64%	
62) 4-Bromofluorobenzene	12.62	95	130967	40.59	ug/l	0.00
Spiked Amount 50.000			Recovery	=	81.18%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.67	74	1372	1.088	ug/l	80
11) Tert butyl alcohol	5.16	59	1960	12.089	ug/l #	82
16) Acetone	4.11	43	32883	47.748	ug/l	98
20) Methylene Chloride	4.91	84	14668	5.634	ug/l	92
25) 2-Butanone	7.17	43	10467	11.185	ug/l	93
29) Tetrahydrofuran	7.52	42	6050	10.775	ug/l	97
31) Cyclohexane	7.95	56	5948	1.226	ug/l #	2
36) 1,1-Dichloropropene	7.95	75	19965	5.108	ug/l #	52
37) Ethyl Acetate	7.17	43	10467	4.887	ug/l #	73
38) Carbon Tetrachloride	7.95	117	23607	6.978	ug/l #	17
41) Methacrylonitrile	7.53	41	4251	3.377	ug/l #	57
76) 1,2,3-Trichloropropane	12.62	75	71586	77.320	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	71586	169.526	ug/l #	6
95) Naphthalene	15.36	128	1637	4.738	ug/l #	94

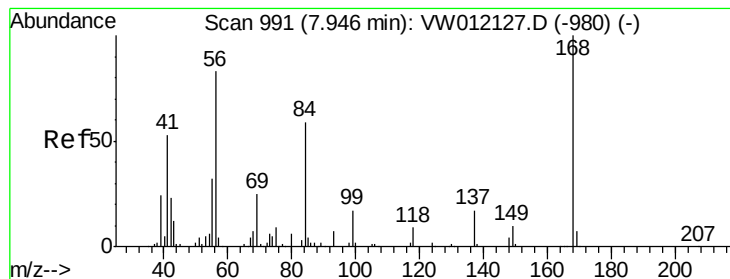
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW012477.D

Acq: 02 Sep 2019 04:59

Instrument :

MSVOA_W

ClientSampleId :

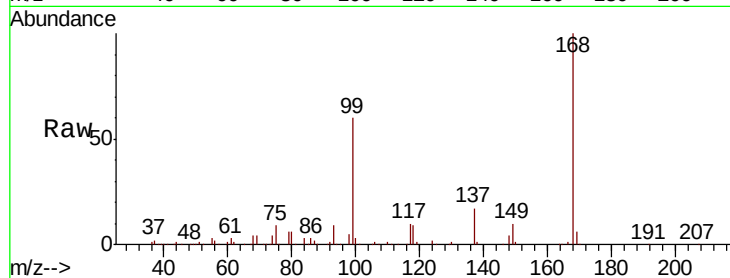
T9-12-13-Q4-(0)

Tgt Ion:168 Resp: 226637

Ion Ratio Lower Upper

168 100

99 59.9 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

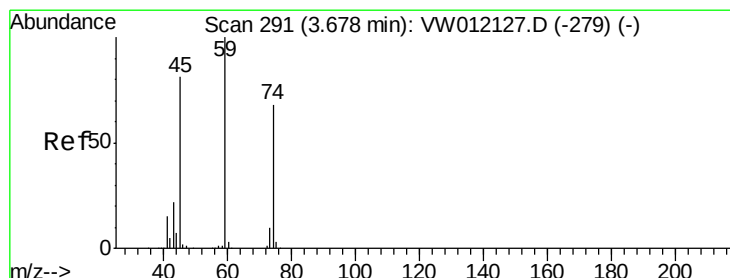
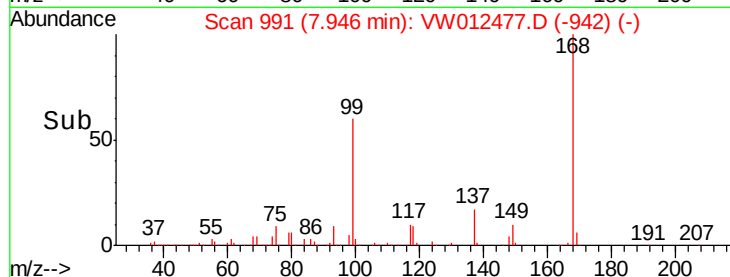
60000

40000

20000

0

Time-->



#8

Diethyl Ether

Concen: 1.088 ug/l

RT: 3.67 min Scan# 289

Delta R.T. -0.01 min

Lab File: VW012477.D

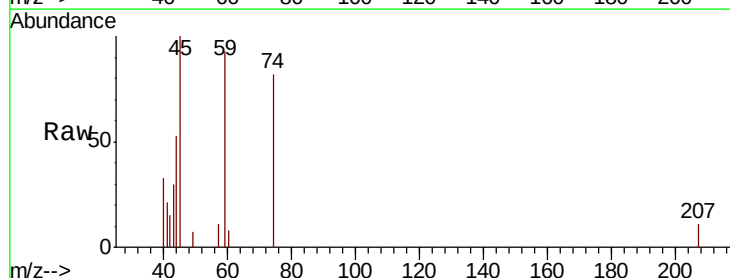
Acq: 02 Sep 2019 04:59

Tgt Ion: 74 Resp: 1372

Ion Ratio Lower Upper

74 100

45 139.9 59.2 177.6



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.67

800

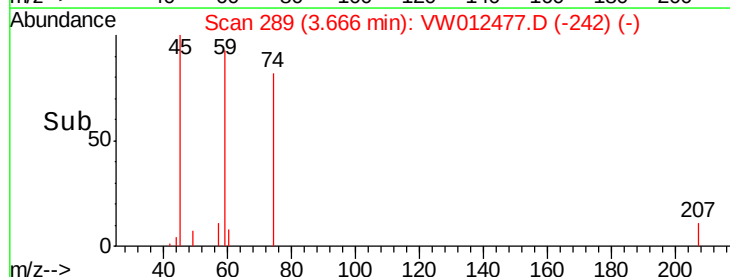
600

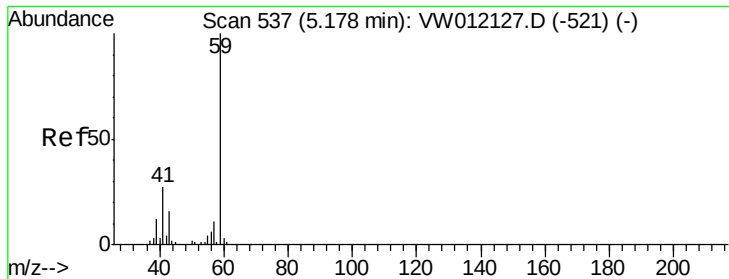
400

200

0

Time-->



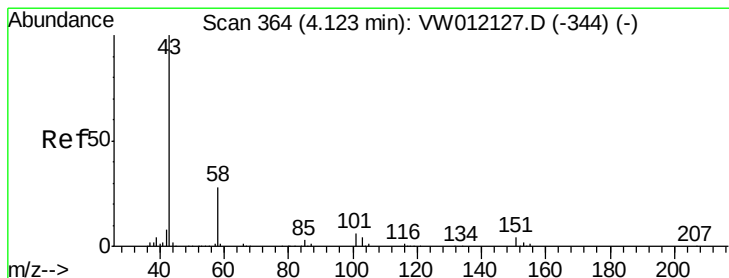
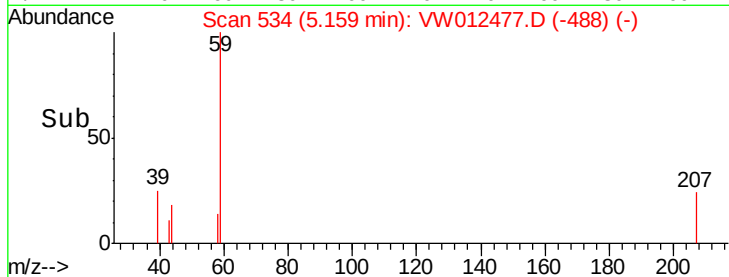
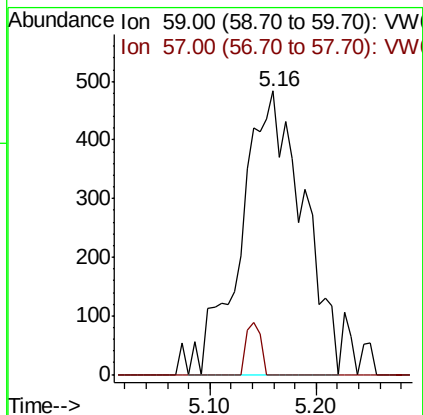
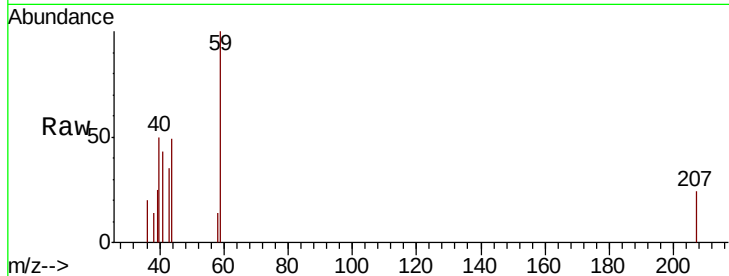


#11

Tert butyl alcohol
Concen: 12.089 ug/l
RT: 5.16 min Scan# 534
Delta R.T. -0.02 min
Lab File: VW012477.D
Acq: 02 Sep 2019 04:59

Instrument :
MSVOA_W
ClientSampleId :
T9-12-13-Q4-(0)

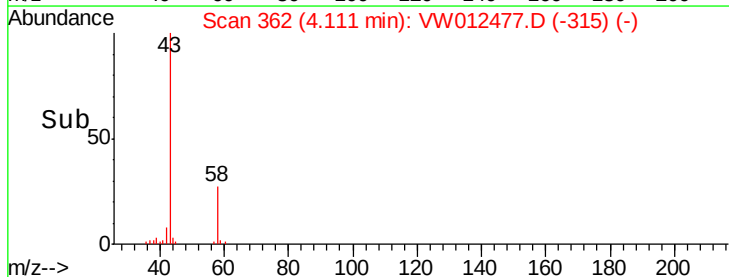
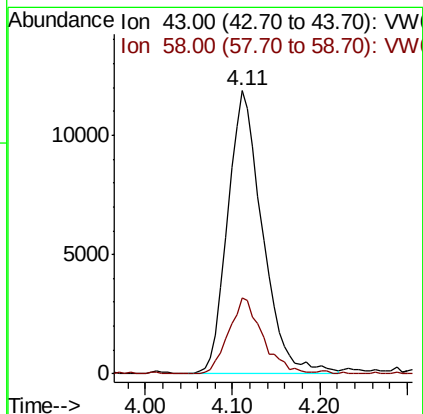
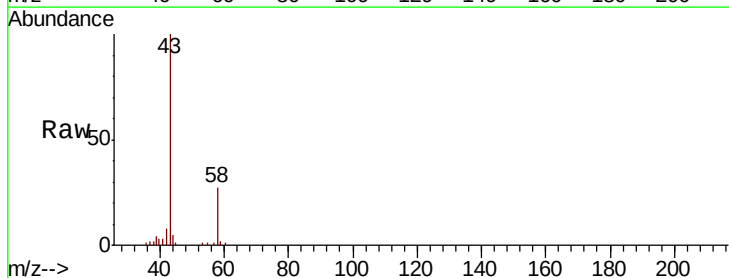
Tgt Ion: 59 Resp: 1960
Ion Ratio Lower Upper
59 100
57 4.4 9.0 13.4#

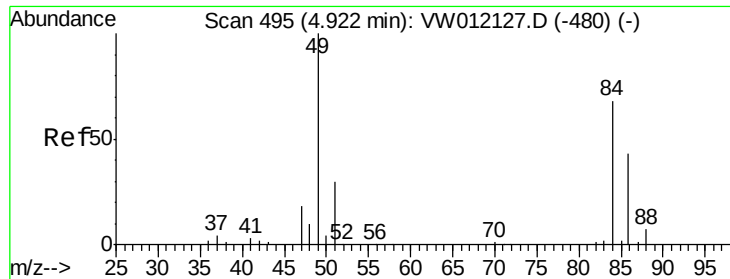


#16

Acetone
Concen: 47.748 ug/l
RT: 4.11 min Scan# 362
Delta R.T. -0.01 min
Lab File: VW012477.D
Acq: 02 Sep 2019 04:59

Tgt Ion: 43 Resp: 32883
Ion Ratio Lower Upper
43 100
58 26.8 22.4 33.6

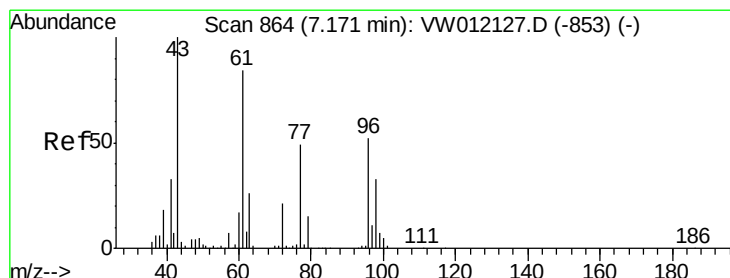
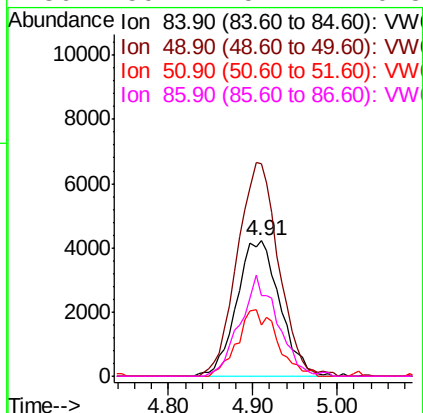
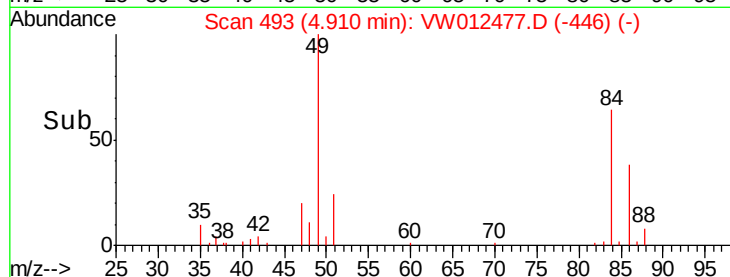
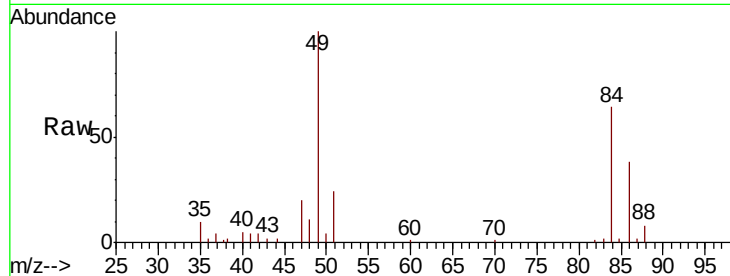




#20
Methylene Chloride
Concen: 5.634 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW012477.D
Acq: 02 Sep 2019 04:59

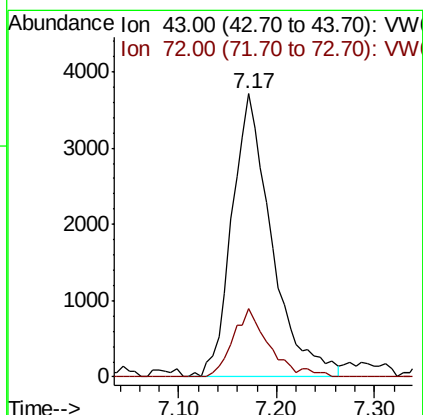
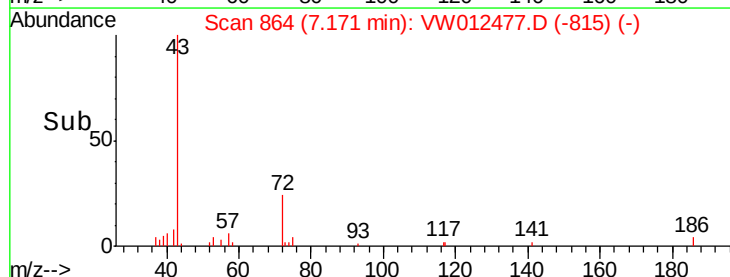
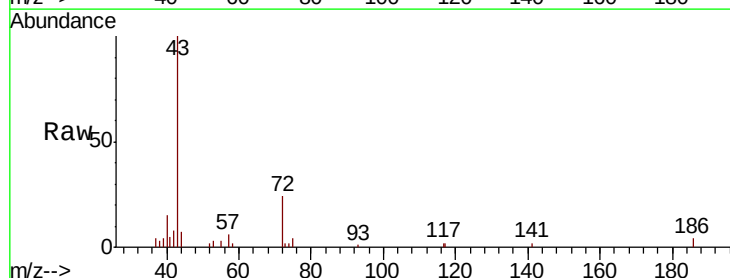
Instrument :
MSVOA_W
ClientSampleId :
T9-12-13-Q4-(0)

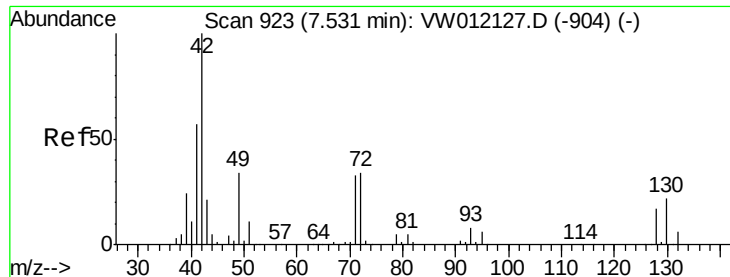
Tgt Ion:	84	Resp:	14668
Ion	Ratio	Lower	Upper
84	100		
49	157.2	117.8	176.8
51	38.2	35.6	53.4
86	59.7	51.2	76.8



#25
2-Butanone
Concen: 11.185 ug/l
RT: 7.17 min Scan# 864
Delta R.T. 0.00 min
Lab File: VW012477.D
Acq: 02 Sep 2019 04:59

Tgt Ion:	43	Resp:	10467
Ion	Ratio	Lower	Upper
43	100		
72	24.0	16.6	24.8





#29

Tetrahydrofuran

Concen: 10.775 ug/l

RT: 7.52 min Scan# 922

Delta R.T. -0.01 min

Lab File: VW012477.D

Acq: 02 Sep 2019 04:59

Instrument :

MSVOA_W

ClientSampleId :

T9-12-13-Q4-(0)

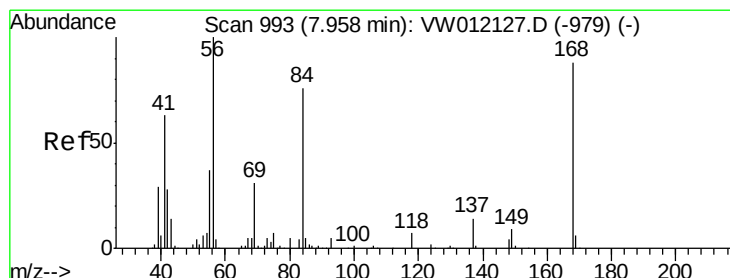
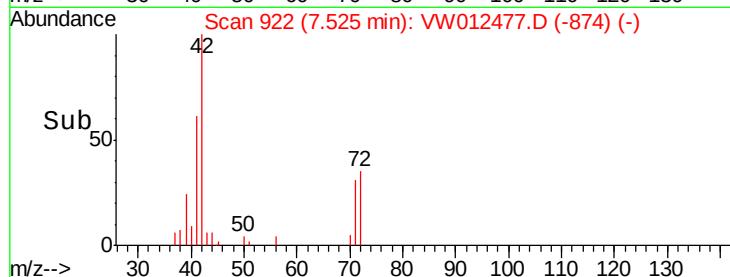
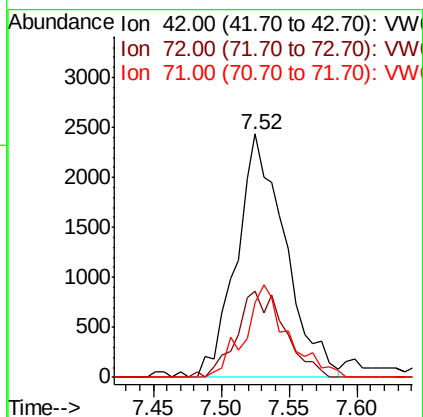
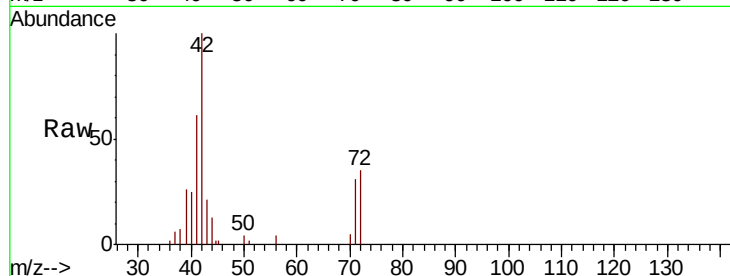
Tgt Ion: 42 Resp: 6050

Ion Ratio Lower Upper

42 100

72 35.2 27.3 40.9

71 33.8 25.5 38.3



#31

Cyclohexane

Concen: 1.226 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW012477.D

Acq: 02 Sep 2019 04:59

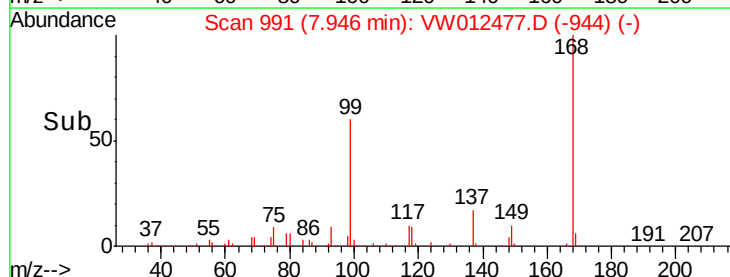
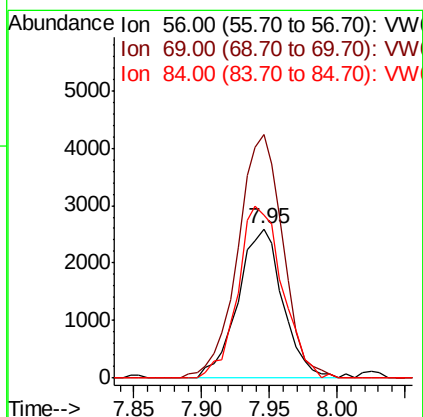
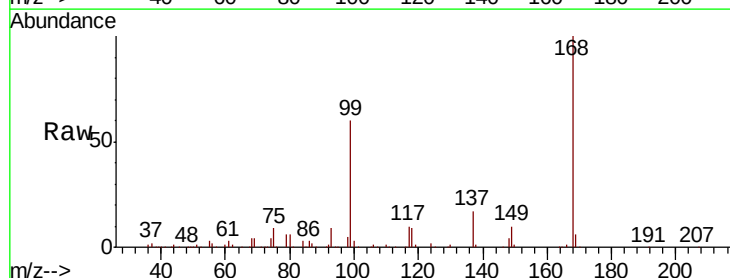
Tgt Ion: 56 Resp: 5948

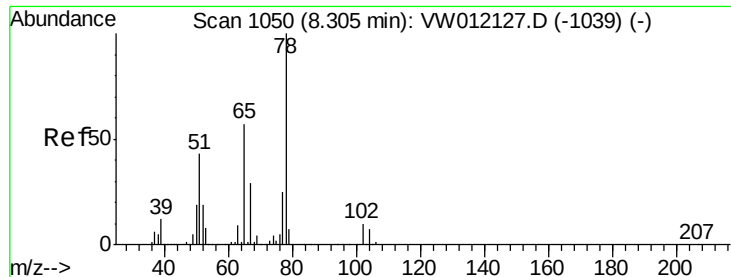
Ion Ratio Lower Upper

56 100

69 163.6 24.9 37.3#

84 109.7 60.6 90.8#

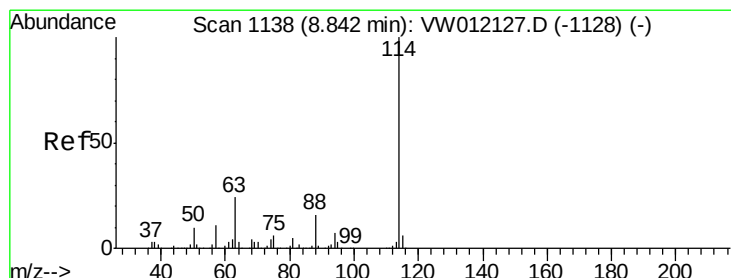
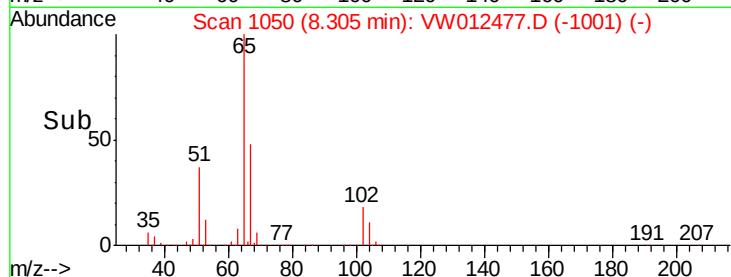
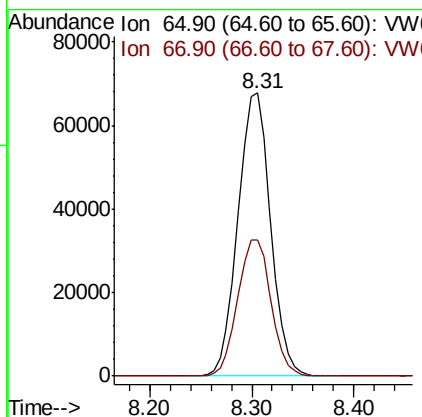
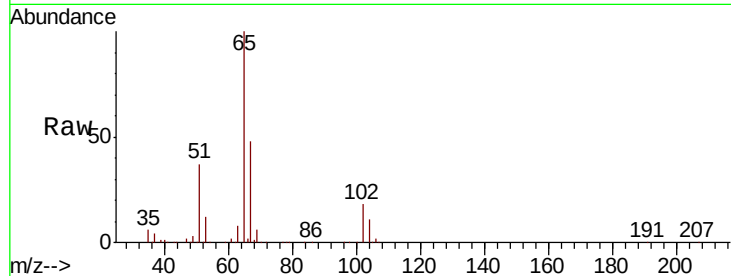




#33
 1,2-Dichloroethane-d4
 Concen: 55.859 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW012477.D
 Acq: 02 Sep 2019 04:59

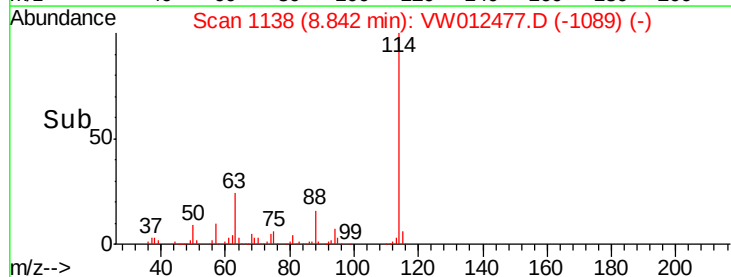
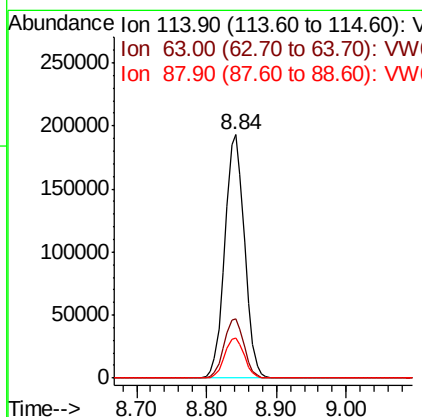
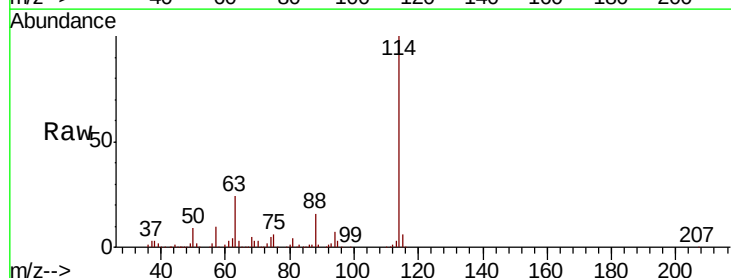
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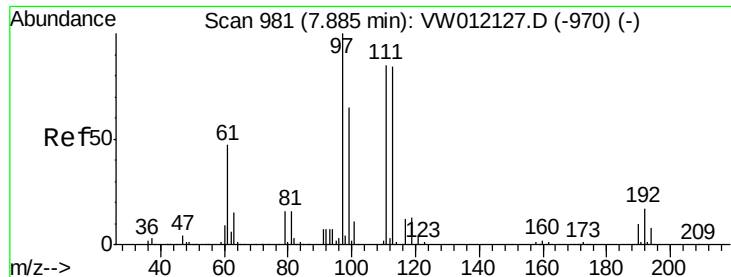
Tgt Ion: 65 Resp: 150492
 Ion Ratio Lower Upper
 65 100
 67 49.4 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW012477.D
 Acq: 02 Sep 2019 04:59

Tgt Ion: 114 Resp: 378243
 Ion Ratio Lower Upper
 114 100
 63 24.4 0.0 48.6
 88 16.5 0.0 32.2

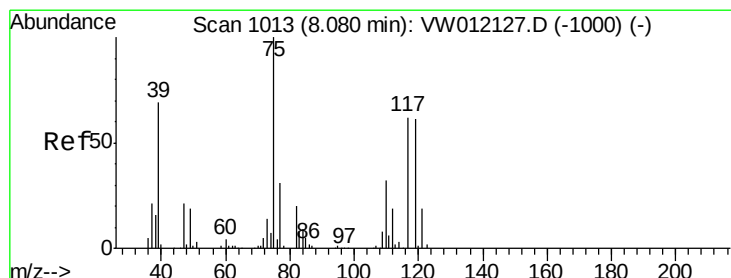
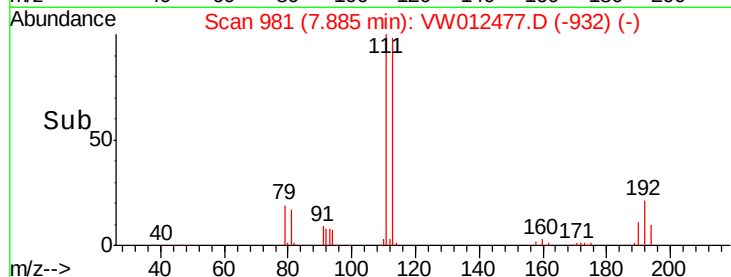
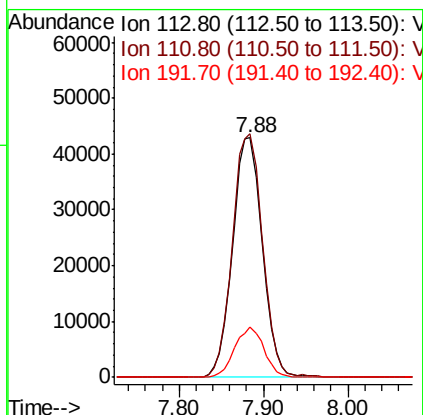
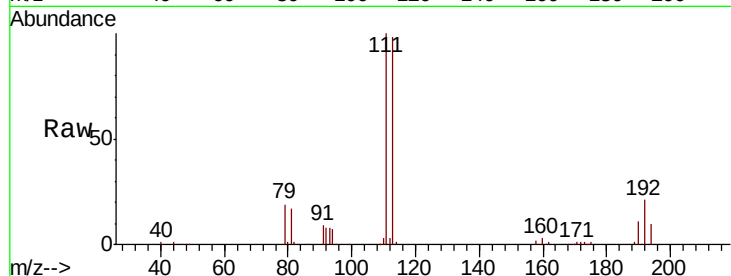




#35
 Dibromofluoromethane
 Concen: 45.341 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW012477.D
 Acq: 02 Sep 2019 04:59

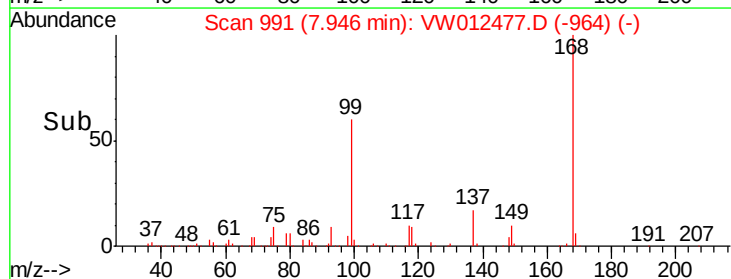
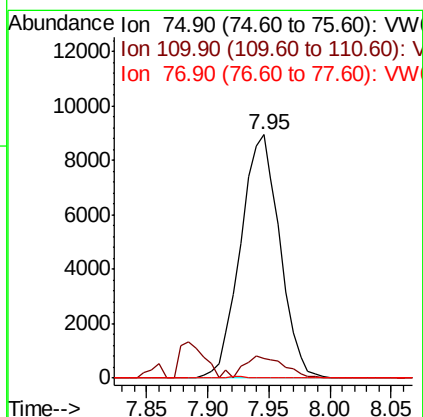
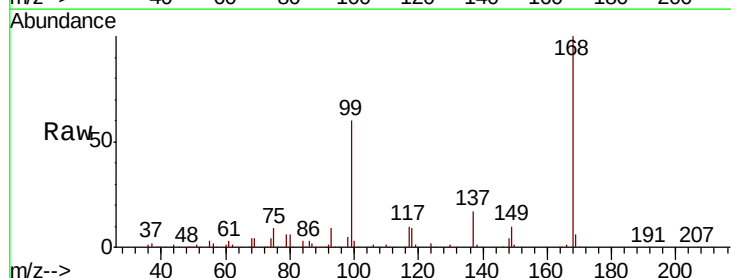
Instrument :
 MSVOA_W
 ClientSampleId :
 T9-12-13-Q4-(0)

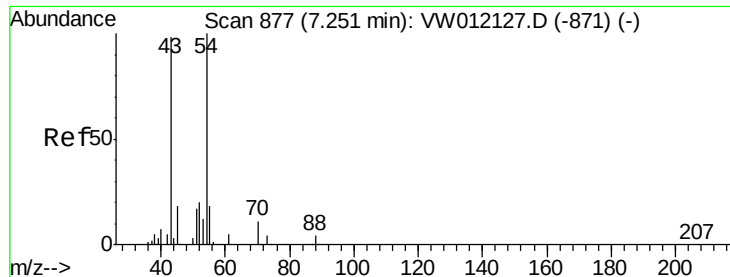
Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.7	124.1
192	20.7	16.2	24.2



#36
 1,1-Dichloropropene
 Concen: 5.108 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW012477.D
 Acq: 02 Sep 2019 04:59

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	15.6	46.8#
77	0.2	24.6	36.8#





#37

Ethyl Acetate

Concen: 4.887 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.08 min

Lab File: VW012477.D

Acq: 02 Sep 2019 04:59

Instrument :

MSVOA_W

ClientSampleId :

T9-12-13-Q4-(0)

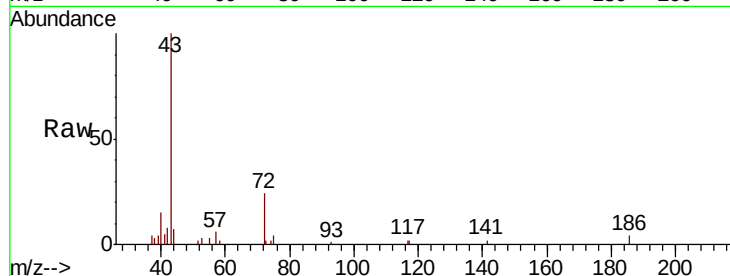
Tgt Ion: 43 Resp: 10467

Ion Ratio Lower Upper

43 100

61 0.0 9.2 13.8#

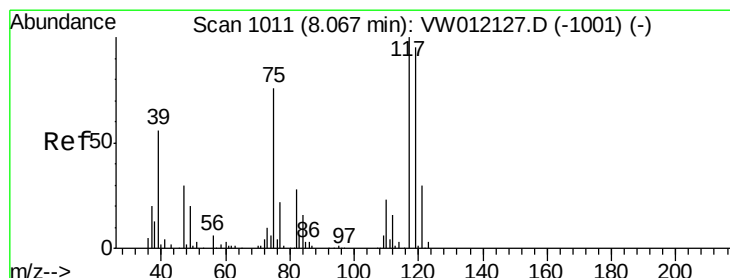
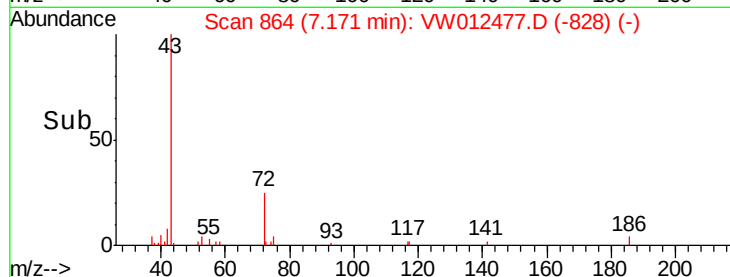
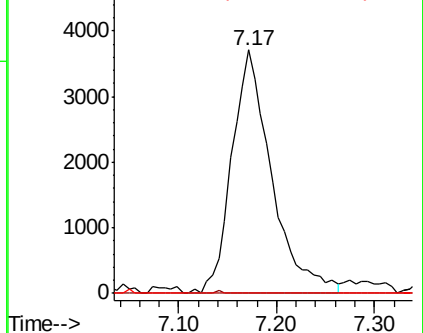
70 0.0 6.9 10.3#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 70.00 (69.70 to 70.70): VW



#38

Carbon Tetrachloride

Concen: 6.978 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW012477.D

Acq: 02 Sep 2019 04:59

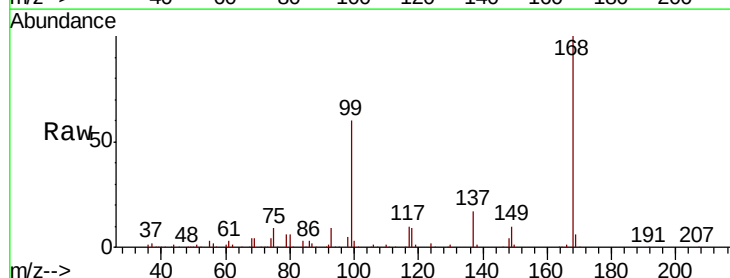
Tgt Ion: 117 Resp: 23607

Ion Ratio Lower Upper

117 100

119 5.9 76.2 114.2#

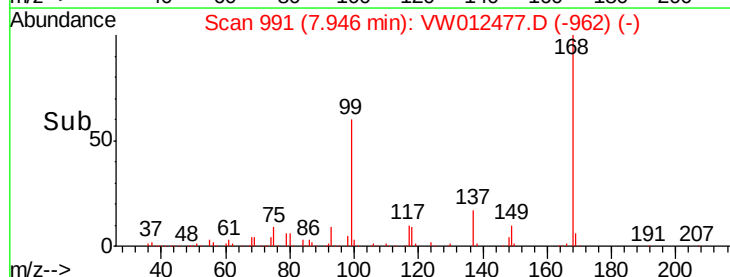
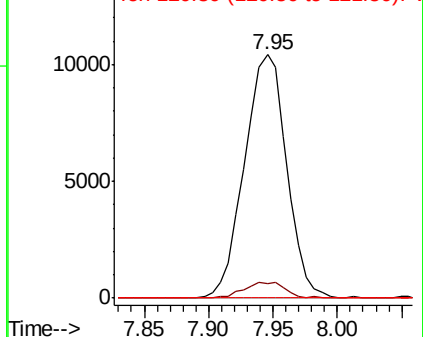
121 0.0 23.8 35.8#

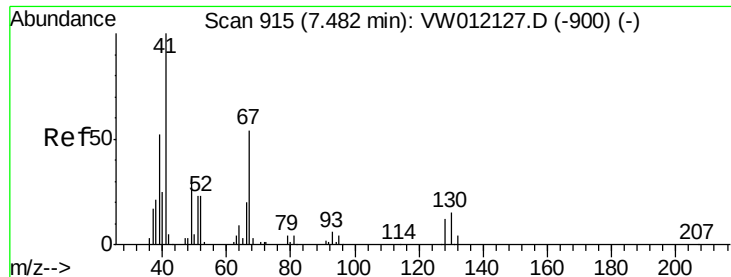


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#41

Methacrylonitrile

Concen: 3.377 ug/l

RT: 7.53 min Scan# 923

Delta R.T. 0.05 min

Lab File: VW012477.D

Acq: 02 Sep 2019 04:59

Instrument :

MSVOA_W

ClientSampleId :

T9-12-13-Q4-(0)

Tgt Ion: 41 Resp: 4251

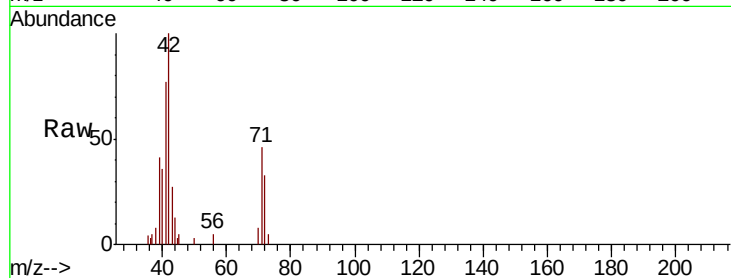
Ion Ratio Lower Upper

41 100

39 54.1 45.8 68.8

67 0.0 46.2 69.4#

52 0.0 21.0 31.6#

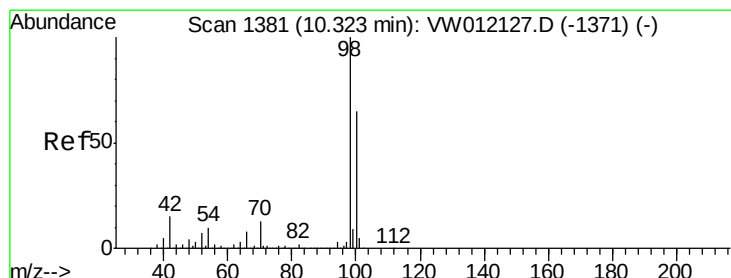
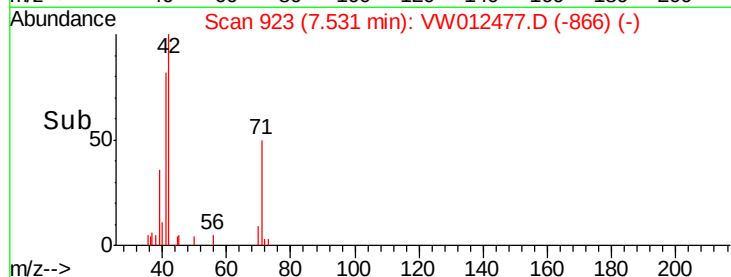
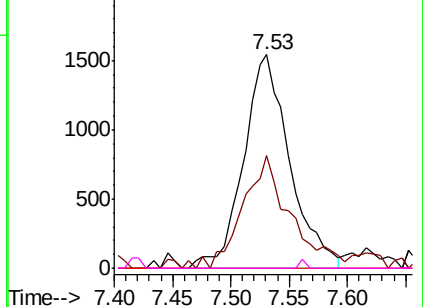


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 67.00 (66.70 to 67.70): VW

Ion 52.00 (51.70 to 52.70): VW



#50

Toluene-d8

Concen: 50.320 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW012477.D

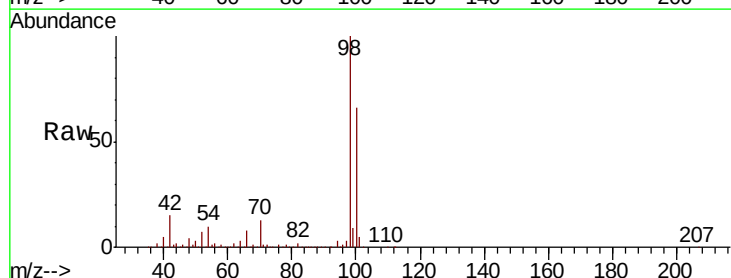
Acq: 02 Sep 2019 04:59

Tgt Ion: 98 Resp: 460655

Ion Ratio Lower Upper

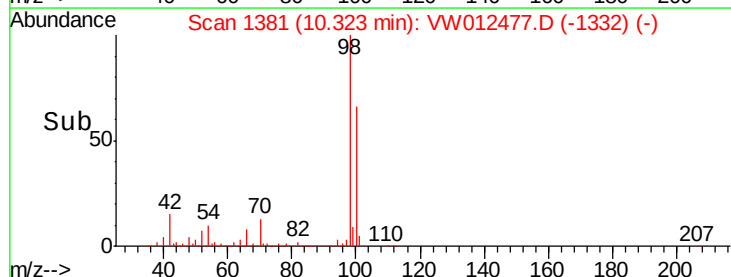
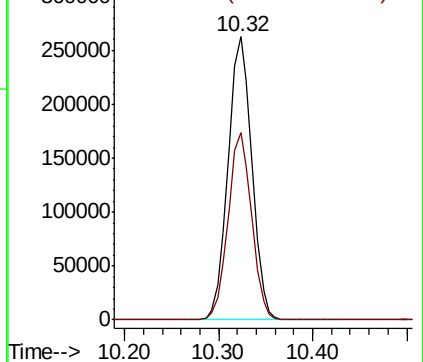
98 100

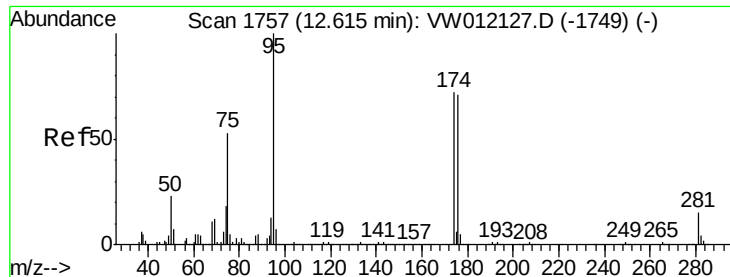
100 65.1 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#62

4-Bromofluorobenzene

Concen: 40.585 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VW012477.D

Acq: 02 Sep 2019 04:59

Instrument :

MSVOA_W

ClientSampleId :

T9-12-13-Q4-(0)

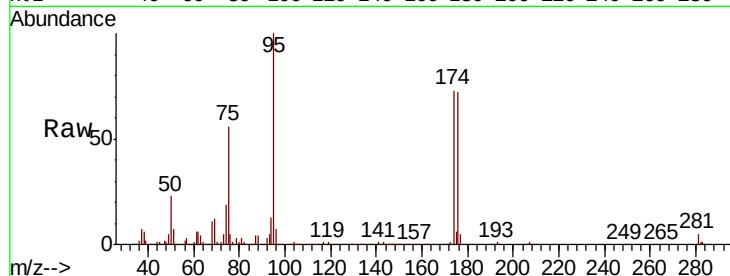
Tgt Ion: 95 Resp: 130967

Ion Ratio Lower Upper

95 100

174 77.6 0.0 150.8

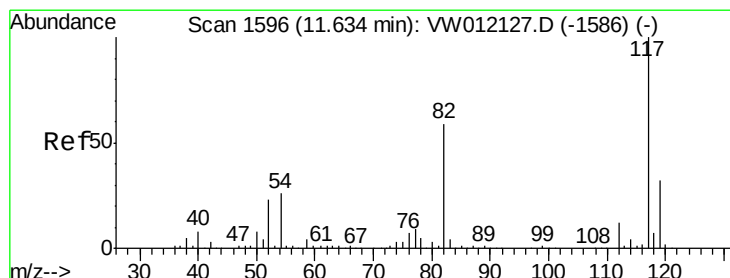
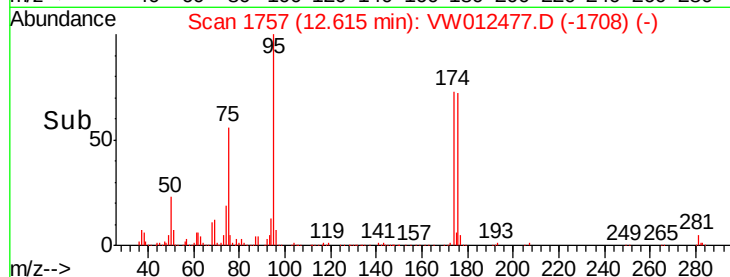
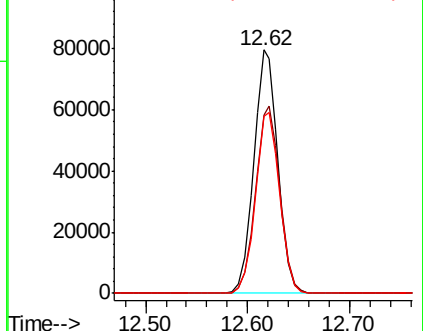
176 74.7 0.0 148.6



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# 1595

Delta R.T. -0.01 min

Lab File: VW012477.D

Acq: 02 Sep 2019 04:59

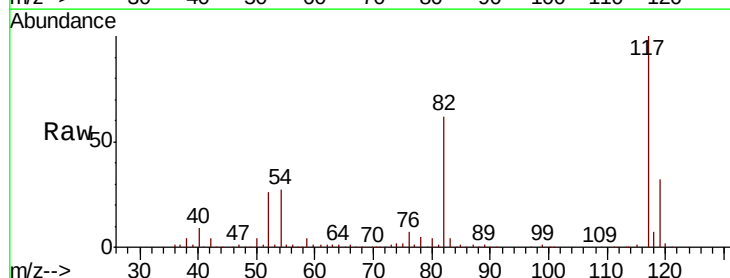
Tgt Ion: 117 Resp: 301118

Ion Ratio Lower Upper

117 100

82 61.6 47.4 71.2

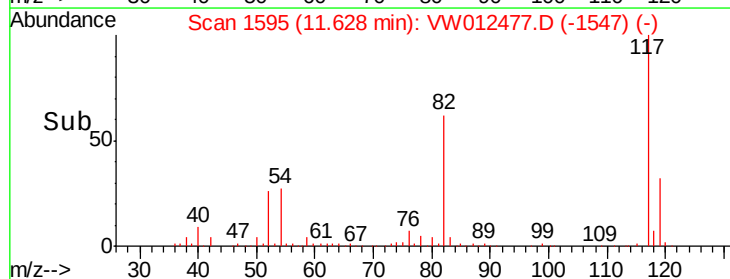
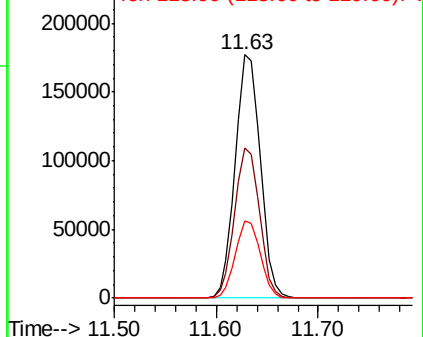
119 32.0 25.4 38.2

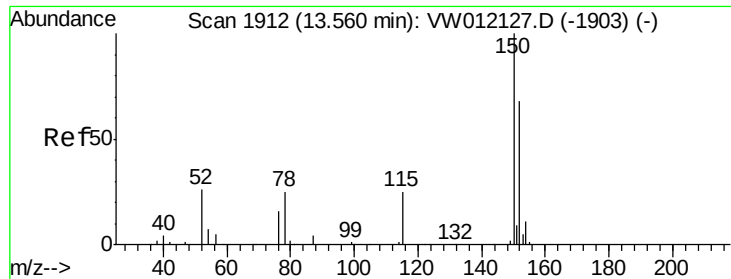


Abundance Ion 116.90 (116.60 to 117.60): VW

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: VW012477.D

Acq: 02 Sep 2019 04:59

Instrument :

MSVOA_W

ClientSampleId :

T9-12-13-Q4-(0)

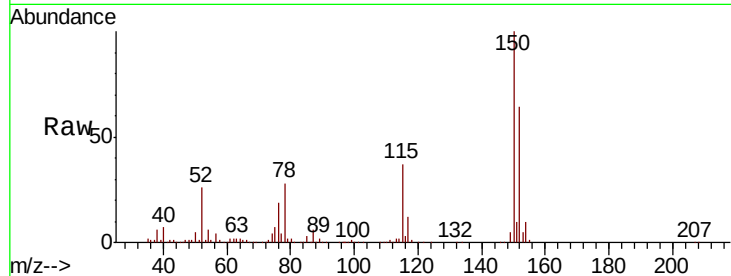
Tgt Ion:152 Resp: 95063

Ion Ratio Lower Upper

152 100

115 60.1 30.1 90.3

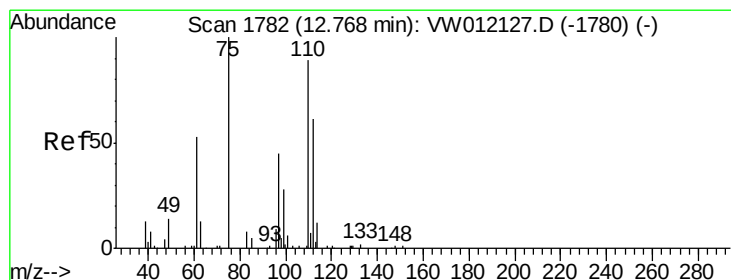
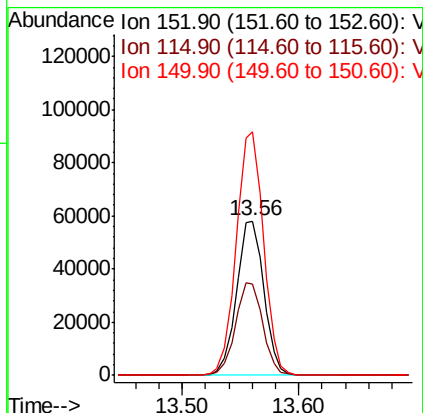
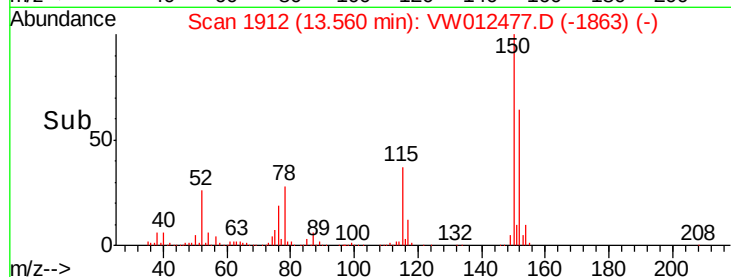
150 157.6 0.0 345.8



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



#76

1,2,3-Trichloropropane

Concen: 77.320 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012477.D

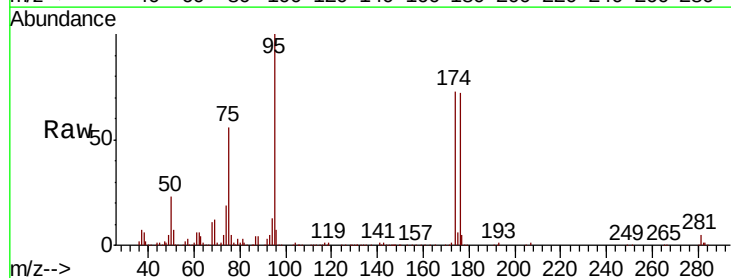
Acq: 02 Sep 2019 04:59

Tgt Ion: 75 Resp: 71586

Ion Ratio Lower Upper

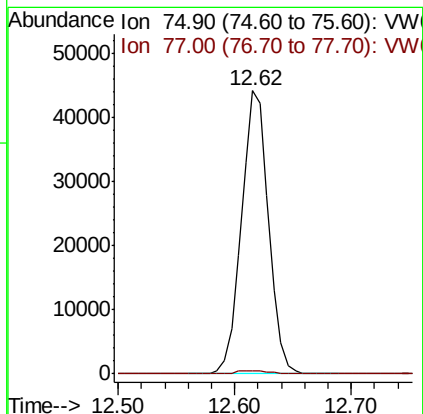
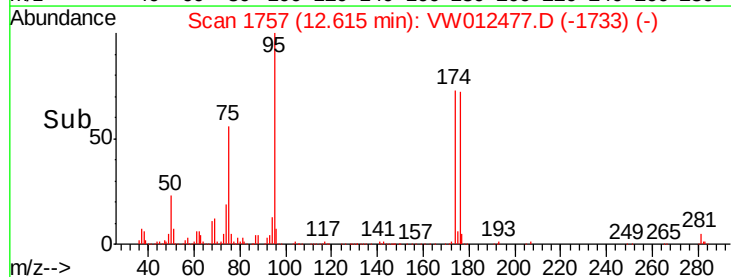
75 100

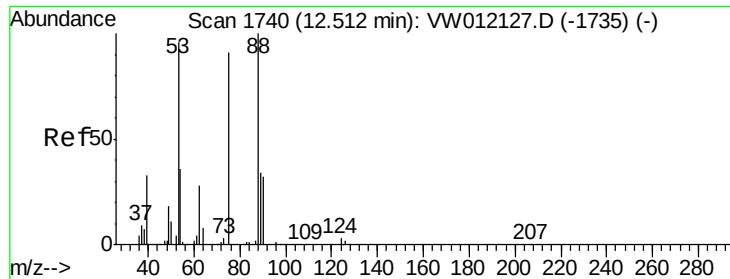
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

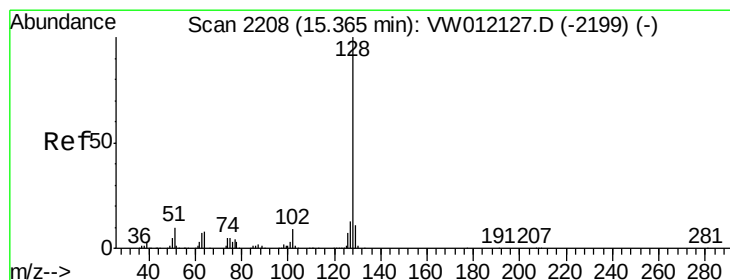
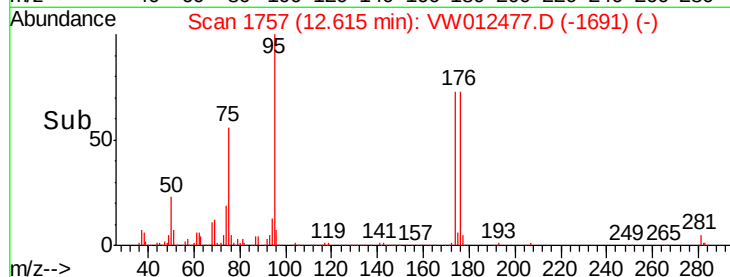
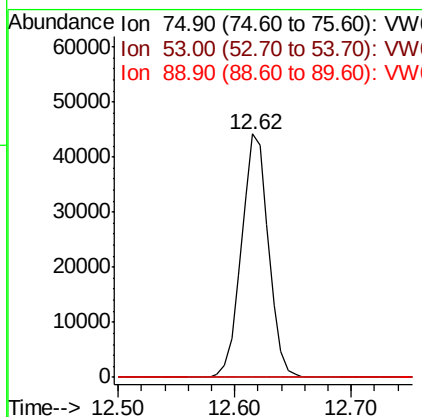
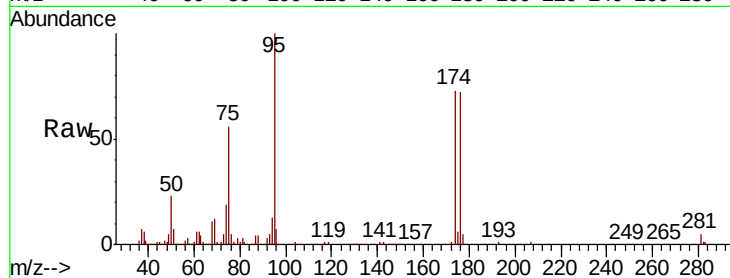




#81
 trans-1,4-Dichloro-2-butene
 Concen: 169.526 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. 0.10 min
 Lab File: VW012477.D
 Acq: 02 Sep 2019 04:59

Instrument :
 MSVOA_W
 ClientSampleId :
 T9-12-13-Q4-(0)

Tgt Ion: 75 Resp: 71586
 Ion Ratio Lower Upper
 75 100
 53 0.3 89.4 134.0#
 89 0.1 34.5 51.7#



#95
 Naphthalene
 Concen: 4.738 ug/l
 RT: 15.36 min Scan# 2208
 Delta R.T. 0.00 min
 Lab File: VW012477.D
 Acq: 02 Sep 2019 04:59

Tgt Ion: 128 Resp: 1637
 Ion Ratio Lower Upper
 128 100
 127 17.3 10.7 16.1#
 129 11.7 8.7 13.1

