

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW083019\
 Data File : VW012381.D
 Acq On : 31 Aug 2019 05:56
 Operator : SY/VA
 Sample : K4517-02
 Misc : 5.97G/5ML/MSVOA_W/SOIL
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 T2-S-A1-(2.5)

Quant Time: Aug 31 06:31:21 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	195397	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	322242	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	251724	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	87660	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.30	65	134117	57.74	ug/l	0.00
Spiked Amount			Recovery	=	115.48%	
35) Dibromofluoromethane	7.88	113	102853	53.47	ug/l	0.00
Spiked Amount			Recovery	=	106.94%	
50) Toluene-d8	10.32	98	388878	49.86	ug/l	0.00
Spiked Amount			Recovery	=	99.72%	
62) 4-Bromofluorobenzene	12.62	95	110127	40.06	ug/l	0.00
Spiked Amount			Recovery	=	80.12%	

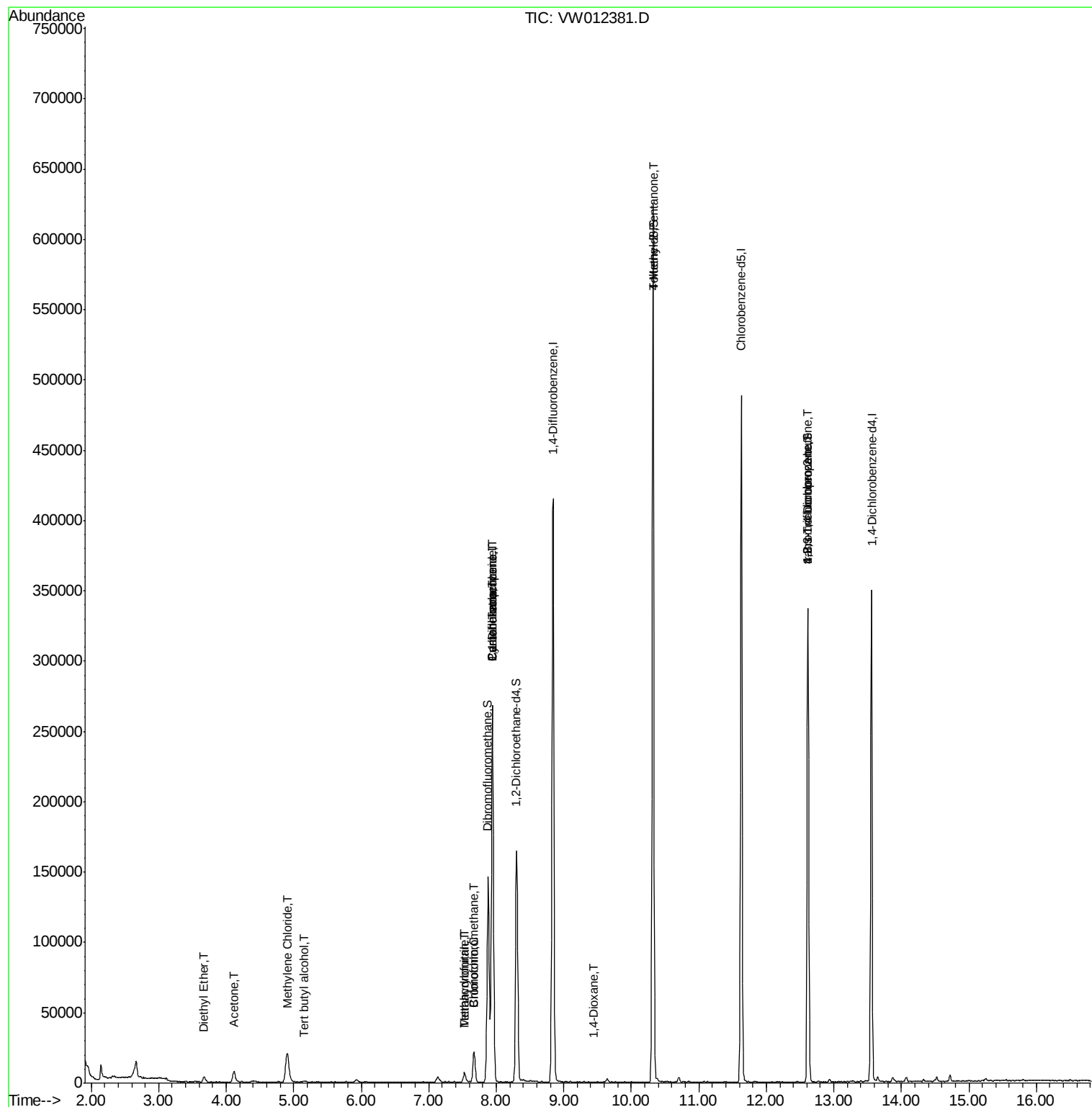
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.67	74	1834	1.687	ug/l	87
11) Tert butyl alcohol	5.17	59	499	3.570	ug/l #	71
16) Acetone	4.12	43	13834	23.299	ug/l	98
20) Methylene Chloride	4.90	84	15314	6.823	ug/l	98
28) Bromochloromethane	7.67	49	2091	1.134	ug/l #	24
29) Tetrahydrofuran	7.52	42	5451	11.261	ug/l	95
30) Chloroform	7.68	83	19064	4.927	ug/l	98
31) Cyclohexane	7.94	56	5119	1.224	ug/l #	4
36) 1,1-Dichloropropene	7.95	75	17093	5.133	ug/l #	52
38) Carbon Tetrachloride	7.94	117	19967	6.928	ug/l #	16
41) Methacrylonitrile	7.52	41	3414	3.183	ug/l #	52
49) 1,4-Dioxane	9.43	88	21	1.260	ug/l #	1
51) 4-Methyl-2-Pentanone	10.32	43	2401	1.397	ug/l #	1
76) 1,2,3-Trichloropropane	12.62	75	59976	70.250	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	59976	154.027	ug/l #	6

(#) = 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: VW012381.D

Acq: 31 Aug 2019 05:56

Instrument :

MSVOA_W

ClientSampleId :

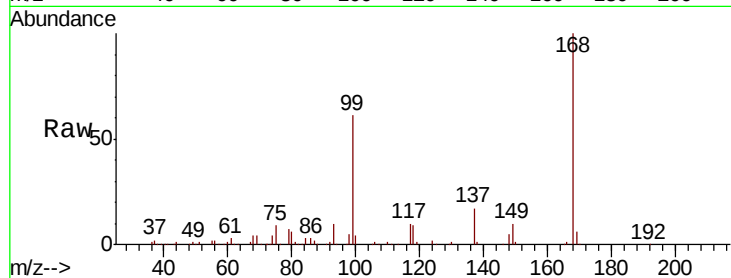
T2-S-A1-(2.5)

Tgt Ion:168 Resp: 195397

Ion Ratio Lower Upper

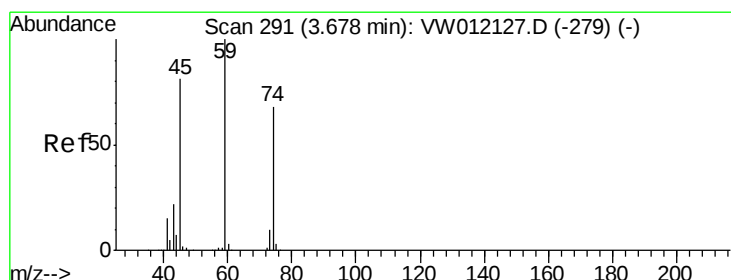
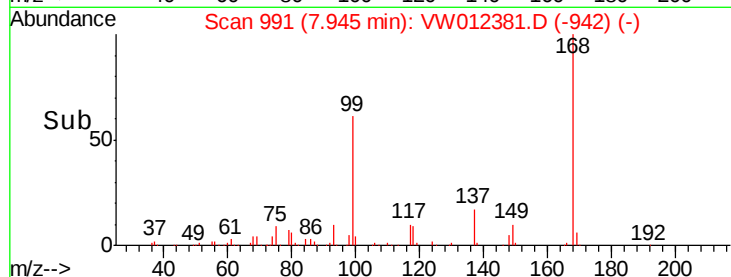
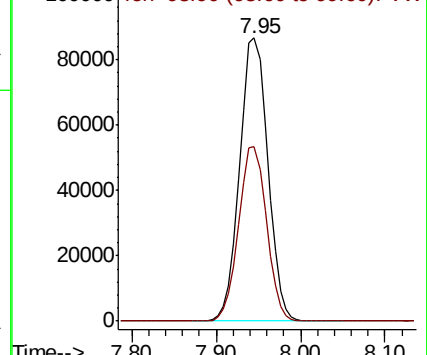
168 100

99 61.5 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 1.687 ug/l

RT: 3.67 min Scan# 289

Delta R.T. -0.01 min

Lab File: VW012381.D

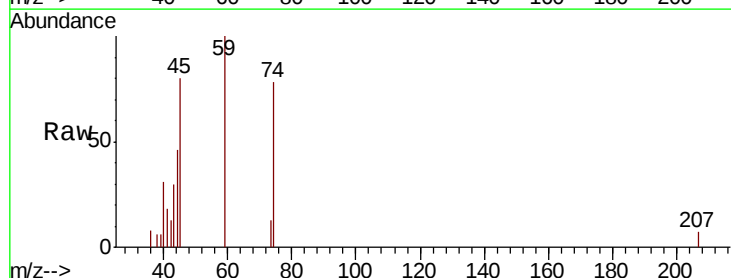
Acq: 31 Aug 2019 05:56

Tgt Ion: 74 Resp: 1834

Ion Ratio Lower Upper

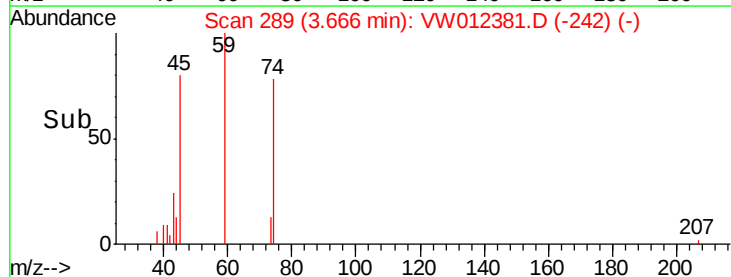
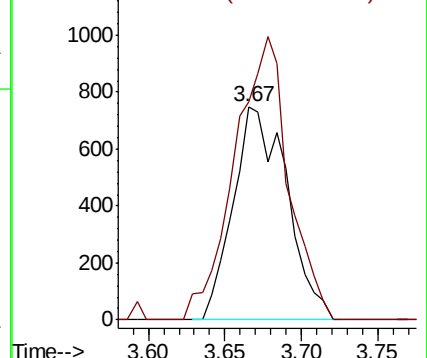
74 100

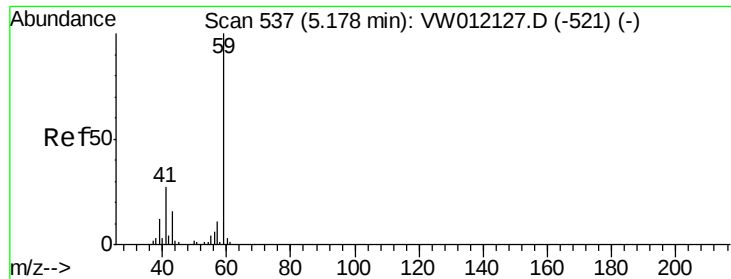
45 133.0 59.2 177.6



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

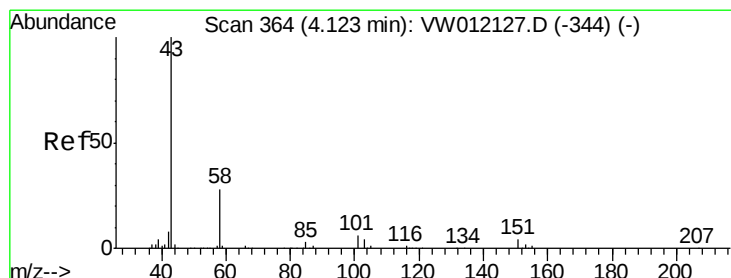
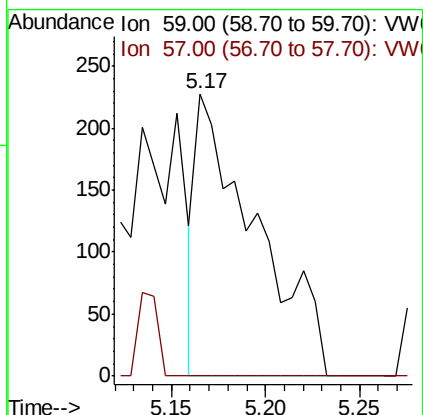
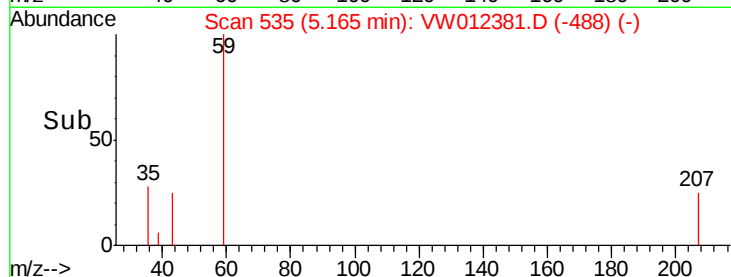
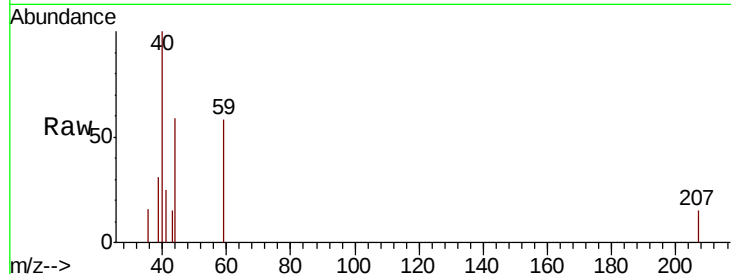




#11
Tert butyl alcohol
Concen: 3.570 ug/l
RT: 5.17 min Scan# 535
Delta R.T. -0.01 min
Lab File: VW012381.D
Acq: 31 Aug 2019 05:56

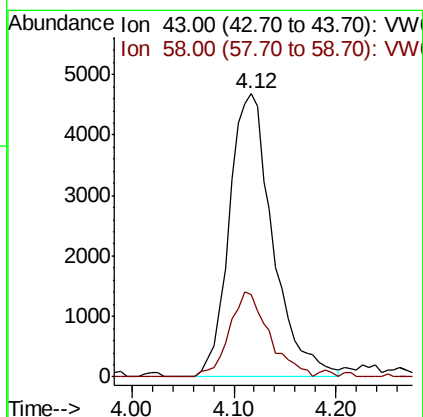
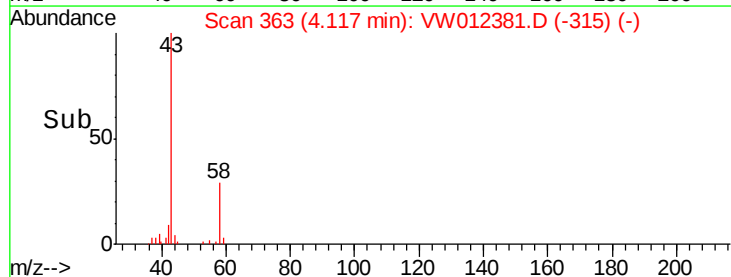
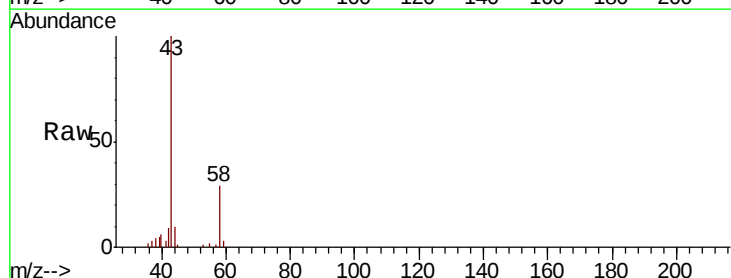
Instrument :
MSVOA_W
ClientSampled :
T2-S-A1-(2.5)

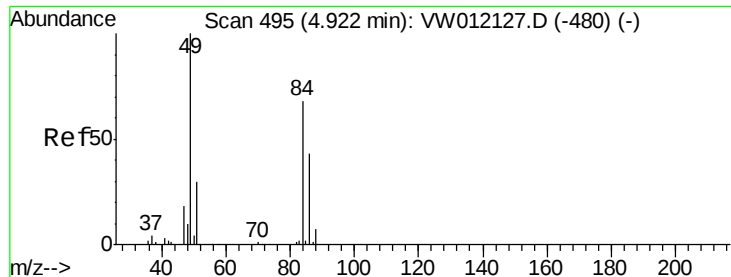
Tgt Ion: 59 Resp: 499
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#



#16
Acetone
Concen: 23.299 ug/l
RT: 4.12 min Scan# 363
Delta R.T. -0.01 min
Lab File: VW012381.D
Acq: 31 Aug 2019 05:56

Tgt Ion: 43 Resp: 13834
Ion Ratio Lower Upper
43 100
58 29.2 22.4 33.6





#20

Methylene Chloride

Concen: 6.823 ug/l

RT: 4.90 min Scan# 492

Delta R.T. -0.02 min

Lab File: VW012381.D

Acq: 31 Aug 2019 05:56

Instrument :

MSVOA_W

ClientSampleId :

T2-S-A1-(2.5)

Tgt Ion: 84 Resp: 15314

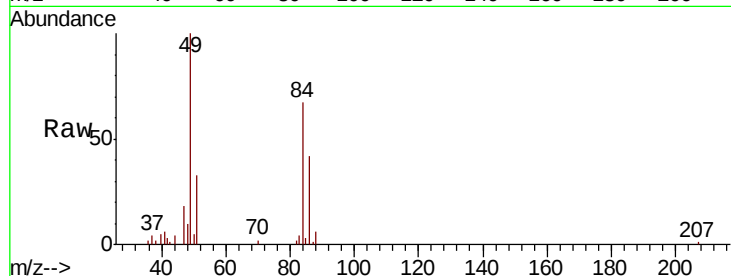
Ion Ratio Lower Upper

84 100

49 146.7 117.8 176.8

51 48.3 35.6 53.4

86 62.4 51.2 76.8

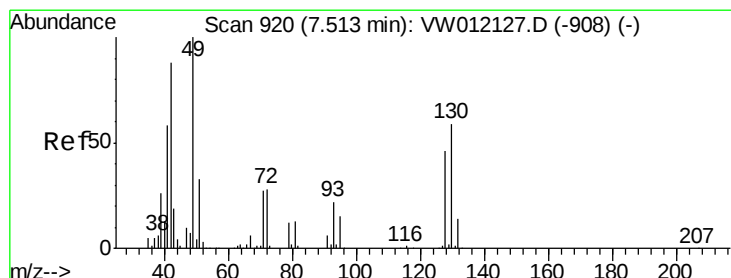
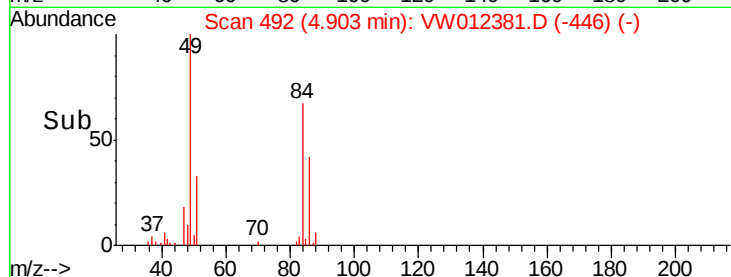
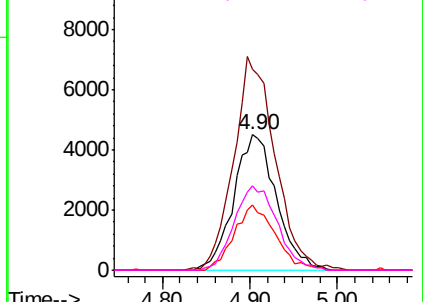


Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW



#28

Bromochloromethane

Concen: 1.134 ug/l

RT: 7.67 min Scan# 946

Delta R.T. 0.16 min

Lab File: VW012381.D

Acq: 31 Aug 2019 05:56

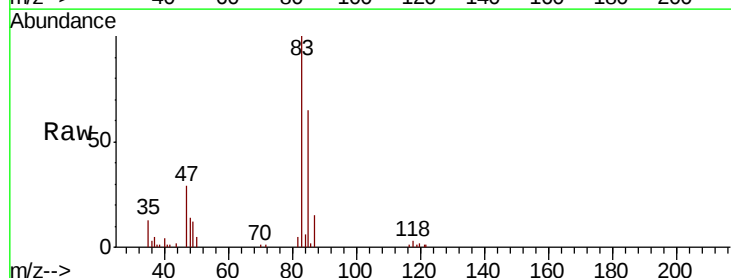
Tgt Ion: 49 Resp: 2091

Ion Ratio Lower Upper

49 100

129 0.0 0.0 1.4

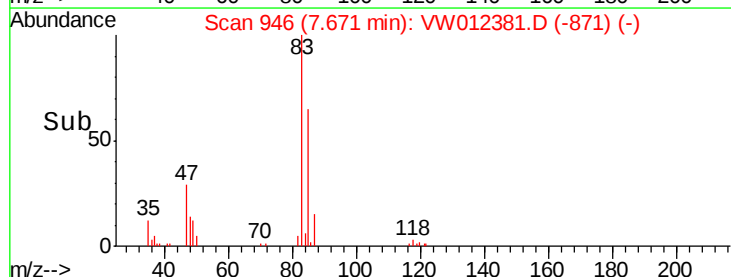
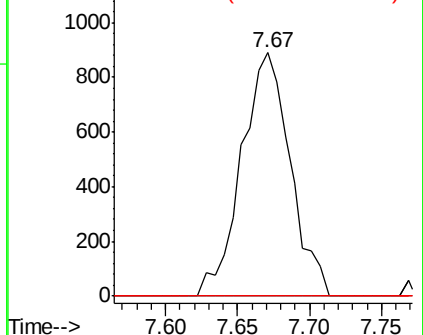
130 0.0 45.5 68.3#

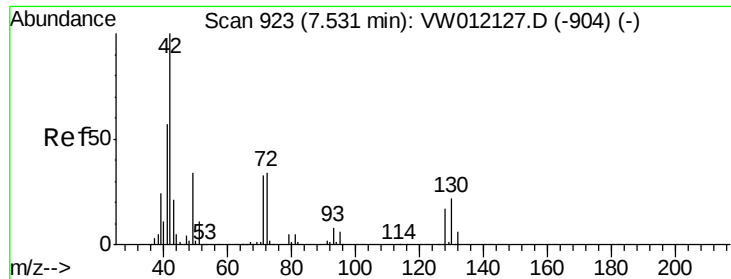


Abundance Ion 48.90 (48.60 to 49.60): VW

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

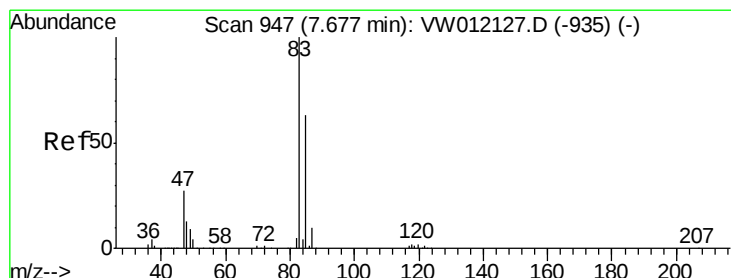
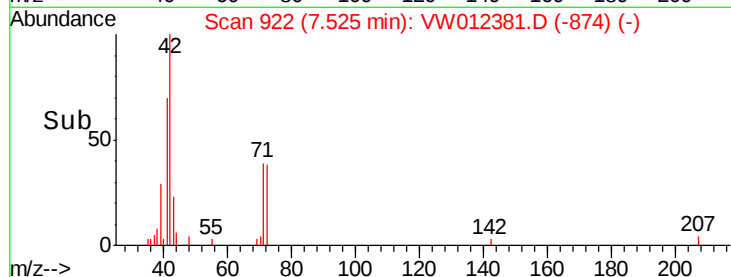
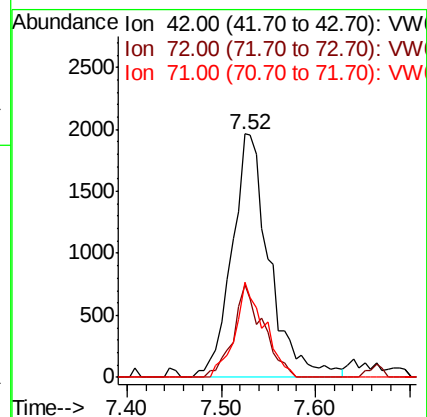
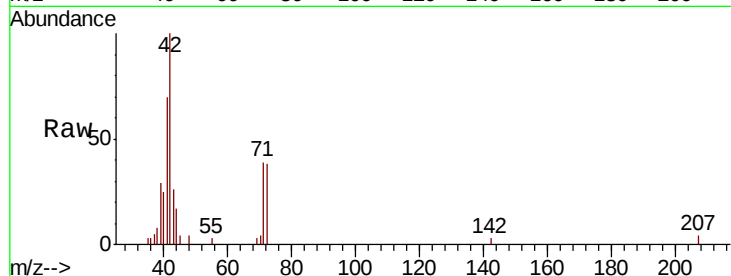




#29
Tetrahydrofuran
Concen: 11.261 ug/l
RT: 7.52 min Scan# 922
Delta R.T. -0.01 min
Lab File: VW012381.D
Acq: 31 Aug 2019 05:56

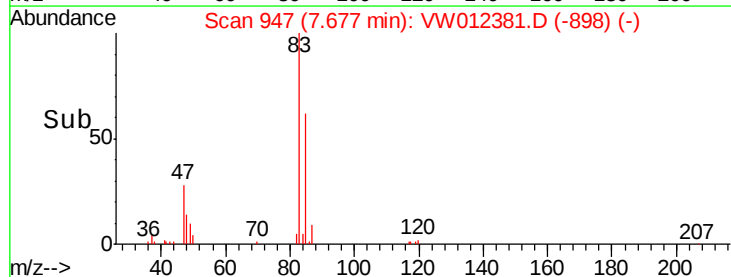
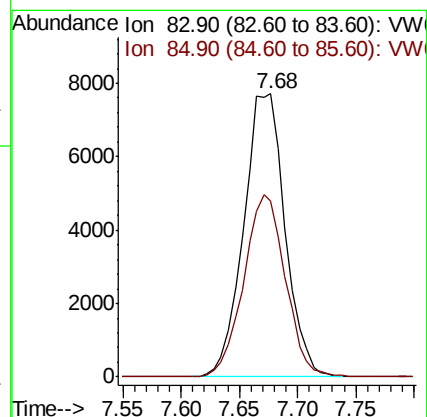
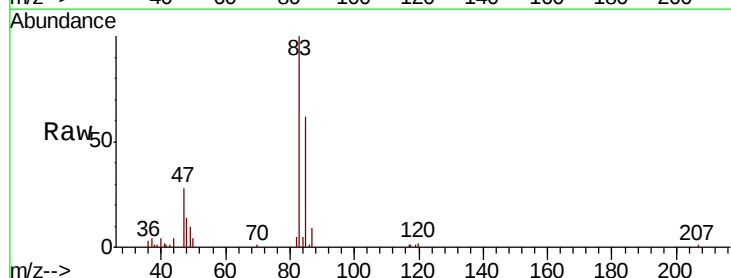
Instrument :
MSVOA_W
ClientSampleId :
T2-S-A1-(2.5)

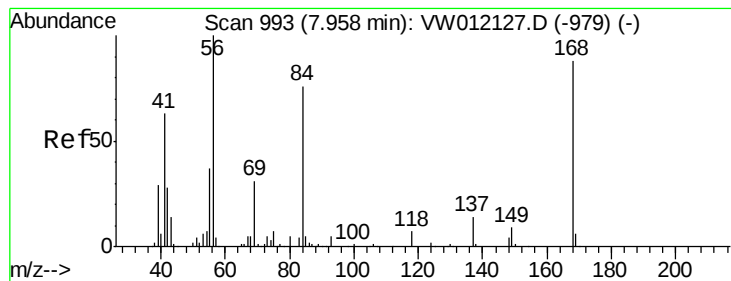
Tgt Ion: 42 Resp: 5451
Ion Ratio Lower Upper
42 100
72 30.3 27.3 40.9
71 30.4 25.5 38.3



#30
Chloroform
Concen: 4.927 ug/l
RT: 7.68 min Scan# 947
Delta R.T. -0.00 min
Lab File: VW012381.D
Acq: 31 Aug 2019 05:56

Tgt Ion: 83 Resp: 19064
Ion Ratio Lower Upper
83 100
85 62.1 50.6 76.0





#31

Cyclohexane

Concen: 1.224 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.02 min

Lab File: VW012381.D

Acq: 31 Aug 2019 05:56

Instrument :

MSVOA_W

ClientSampleId :

T2-S-A1-(2.5)

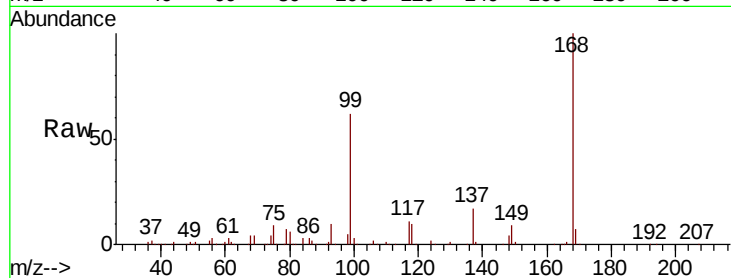
Tgt Ion: 56 Resp: 5119

Ion Ratio Lower Upper

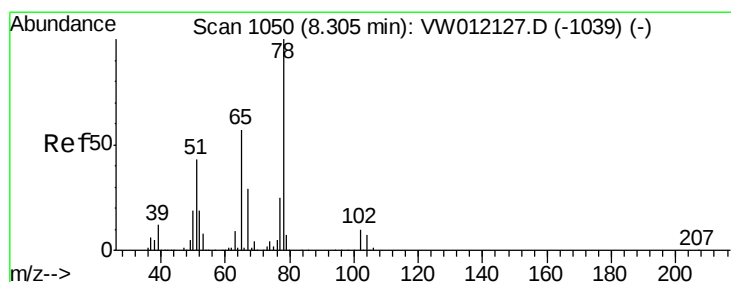
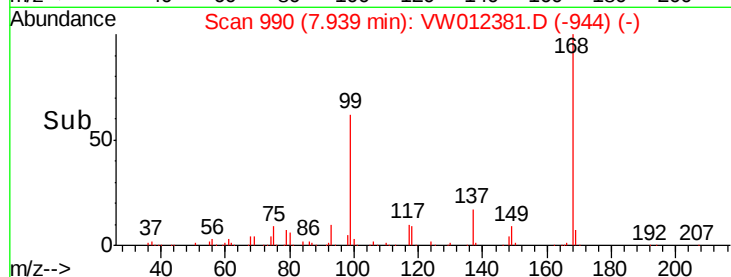
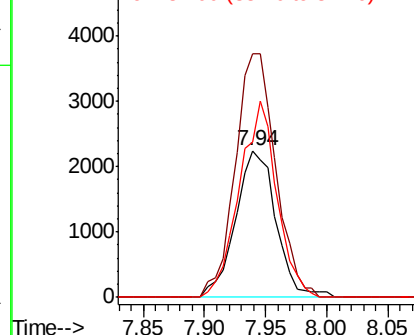
56 100

69 166.0 24.9 37.3#

84 105.6 60.6 90.8#



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: 57.740 ug/l

RT: 8.30 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VW012381.D

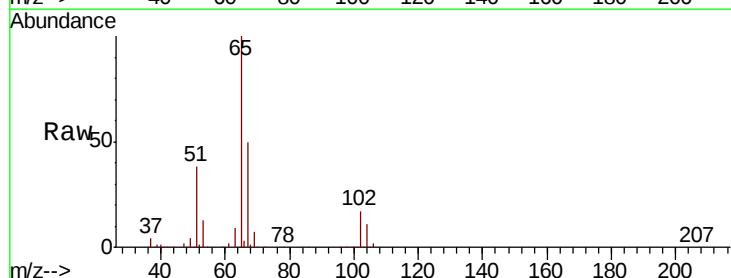
Acq: 31 Aug 2019 05:56

Tgt Ion: 65 Resp: 134117

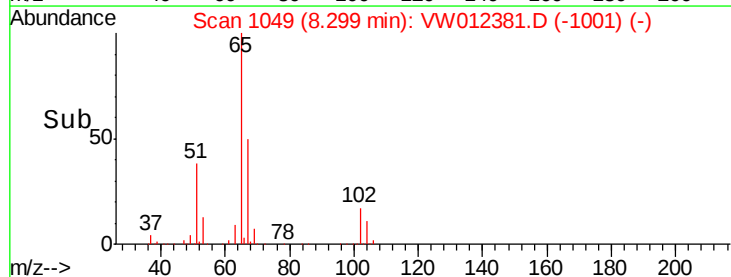
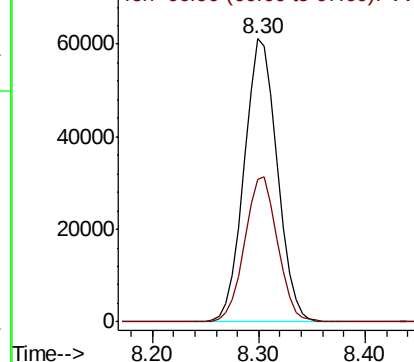
Ion Ratio Lower Upper

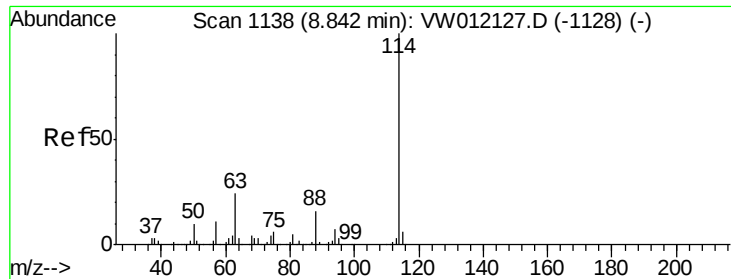
65 100

67 50.9 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VW
Ion 66.90 (66.60 to 67.60): VW

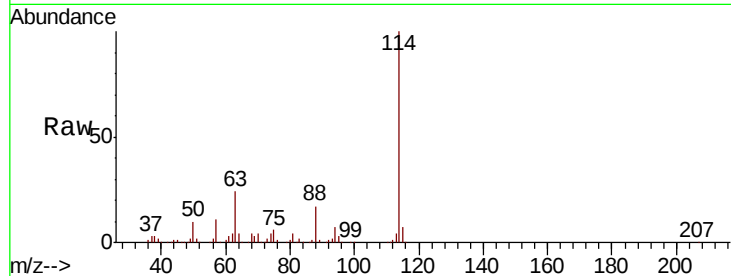




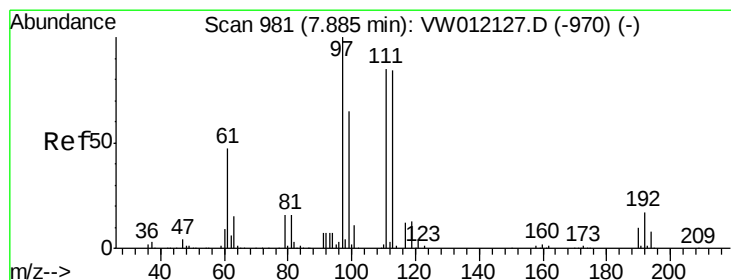
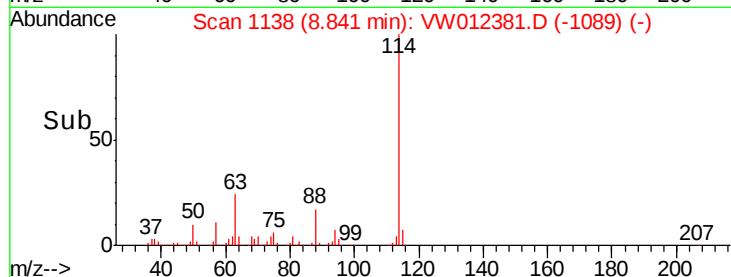
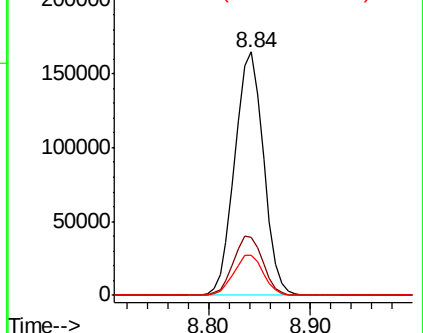
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW012381.D
 Acq: 31 Aug 2019 05:56

Instrument :
 MSVOA_W
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 T2-S-A1-(2.5)

Tgt Ion:114 Resp: 322242
 Ion Ratio Lower Upper
 114 100
 63 24.0 0.0 48.6
 88 16.7 0.0 32.2

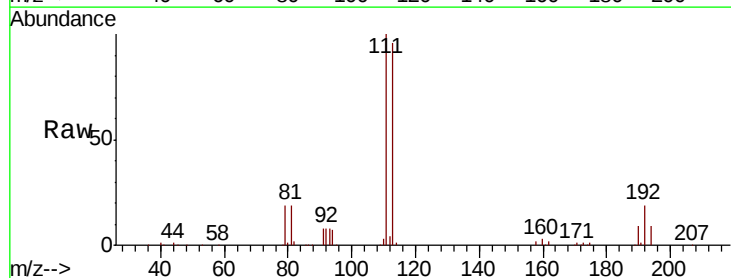


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

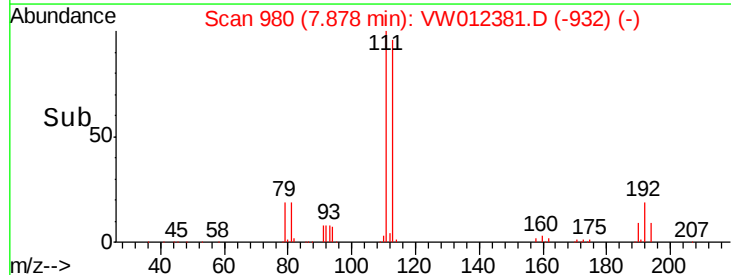
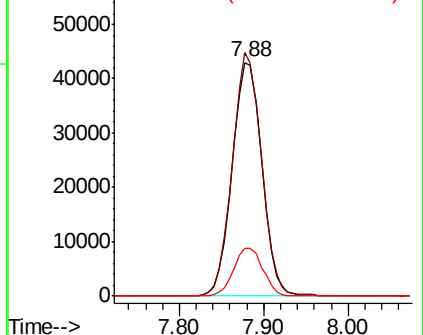


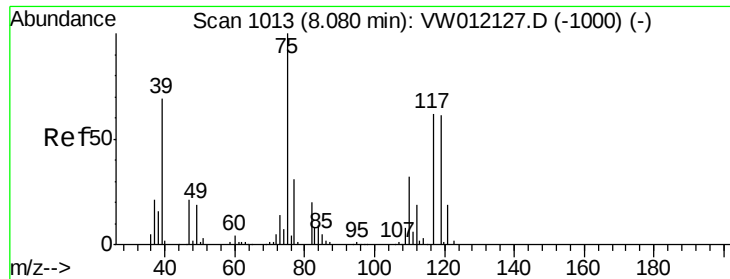
#35
 Dibromofluoromethane
 Concen: 53.473 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.01 min
 Lab File: VW012381.D
 Acq: 31 Aug 2019 05:56

Tgt Ion:113 Resp: 102853
 Ion Ratio Lower Upper
 113 100
 111 101.7 82.7 124.1
 192 20.3 16.2 24.2



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

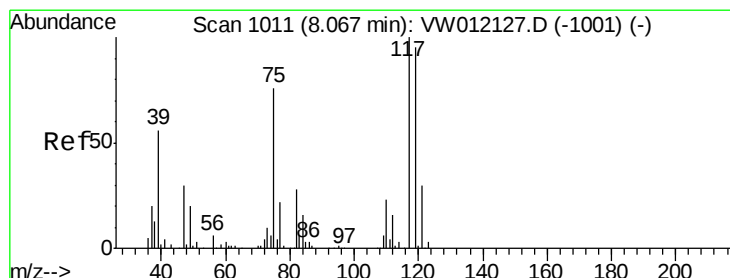
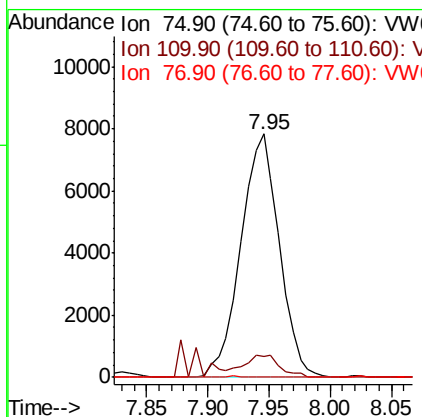
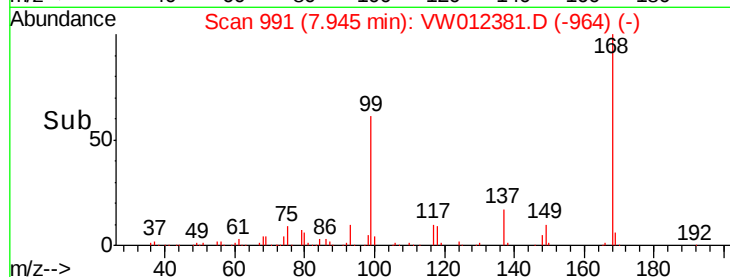
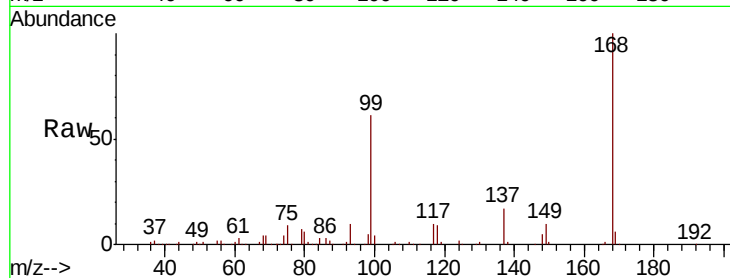




#36
 1,1-Dichloropropene
 Concen: 5.133 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW012381.D
 Acq: 31 Aug 2019 05:56

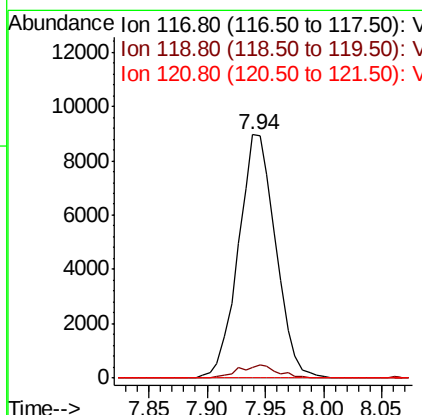
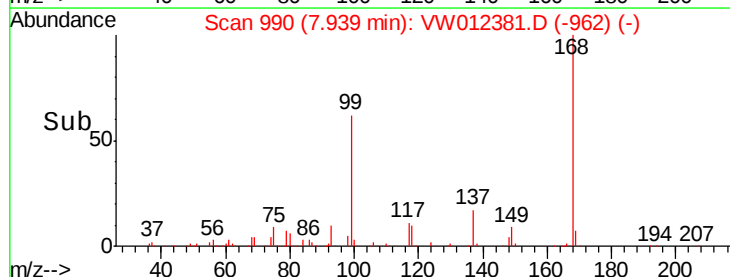
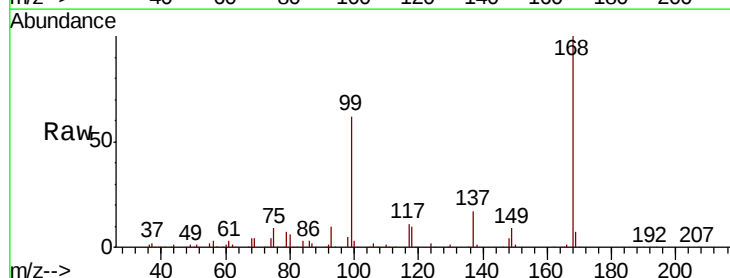
Instrument :
 MSVOA_W
 ClientSampleId :
 T2-S-A1-(2.5)

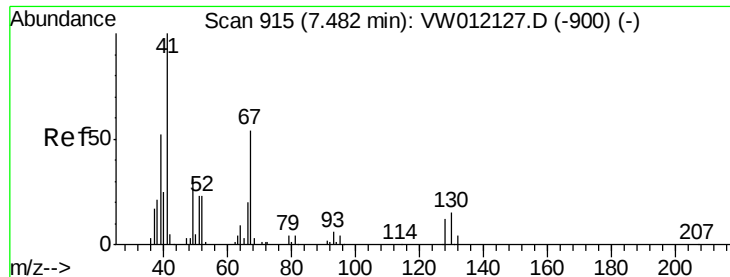
Tgt Ion: 75 Resp: 17093
 Ion Ratio Lower Upper
 75 100
 110 8.7 15.6 46.8#
 77 0.0 24.6 36.8#



#38
 Carbon Tetrachloride
 Concen: 6.928 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.13 min
 Lab File: VW012381.D
 Acq: 31 Aug 2019 05:56

Tgt Ion: 117 Resp: 19967
 Ion Ratio Lower Upper
 117 100
 119 4.3 76.2 114.2#
 121 0.0 23.8 35.8#

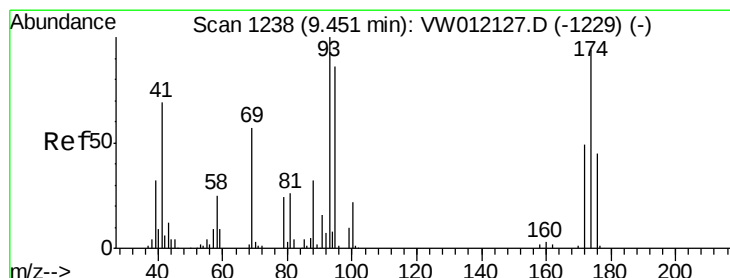
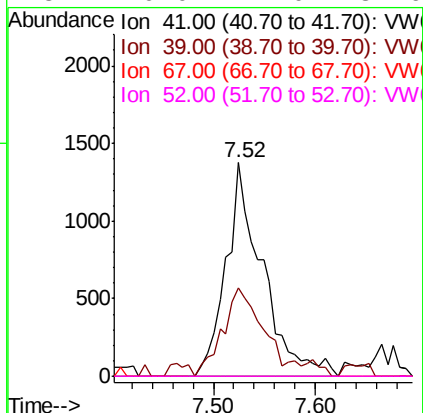
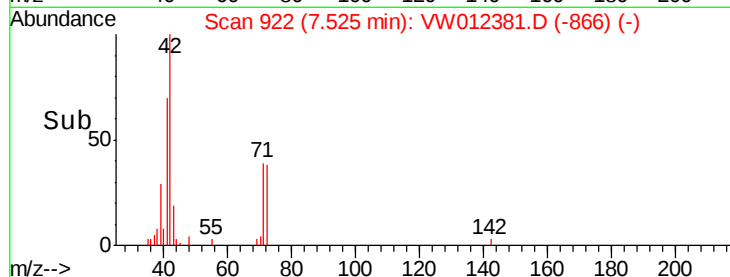
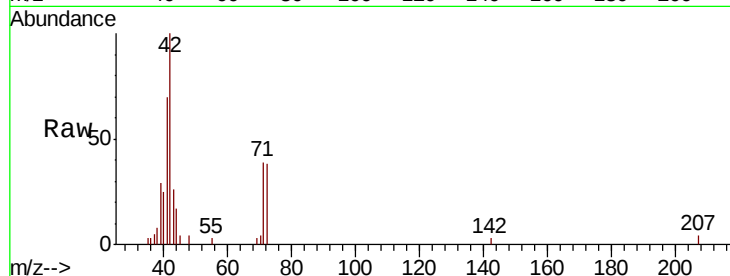




#41
Methacrylonitrile
Concen: 3.183 ug/l
RT: 7.52 min Scan# 922
Delta R.T. 0.04 min
Lab File: VW012381.D
Acq: 31 Aug 2019 05:56

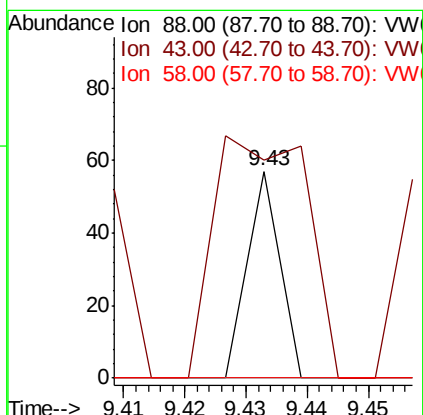
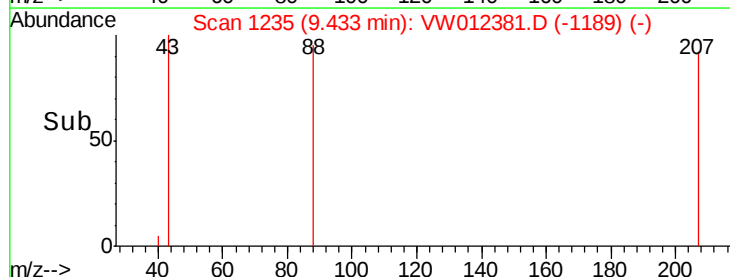
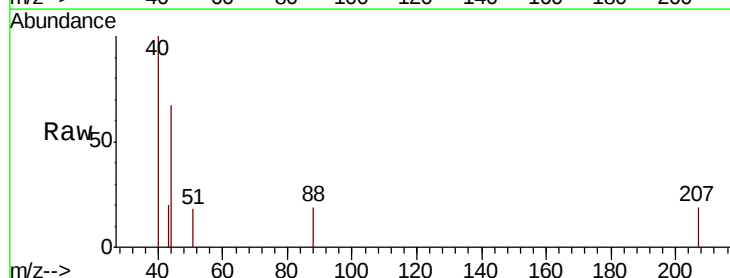
Instrument :
MSVOA_W
ClientSampleId :
T2-S-A1-(2.5)

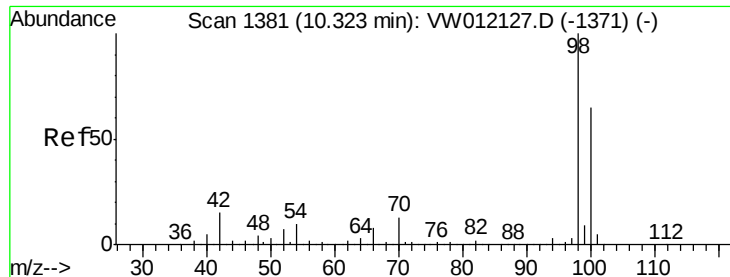
Tgt Ion: 41 Resp: 3414
Ion Ratio Lower Upper
41 100
39 45.0 45.8 68.8#
67 0.0 46.2 69.4#
52 0.0 21.0 31.6#



#49
1,4-Dioxane
Concen: 1.260 ug/l
RT: 9.43 min Scan# 1235
Delta R.T. -0.02 min
Lab File: VW012381.D
Acq: 31 Aug 2019 05:56

Tgt Ion: 88 Resp: 21
Ion Ratio Lower Upper
88 100
43 333.3 32.9 49.3#
58 0.0 71.0 106.4#





#50

Toluene-d8

Concen: 49.862 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012381.D

Acq: 31 Aug 2019 05:56

Instrument :

MSVOA_W

ClientSampleId :

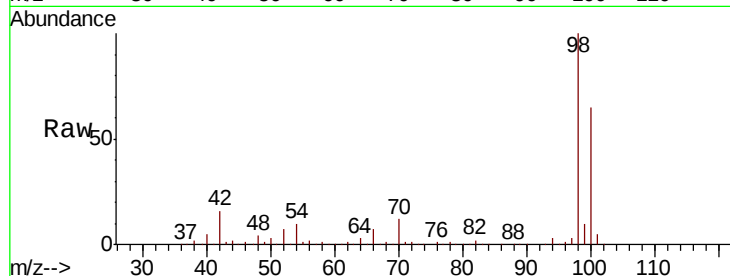
T2-S-A1-(2.5)

Tgt Ion: 98 Resp: 388878

Ion Ratio Lower Upper

98 100

100 65.2 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

250000

200000

150000

100000

50000

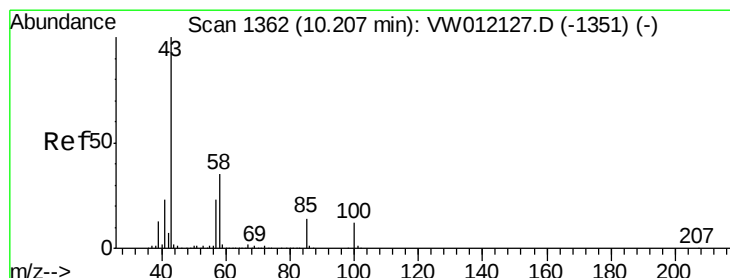
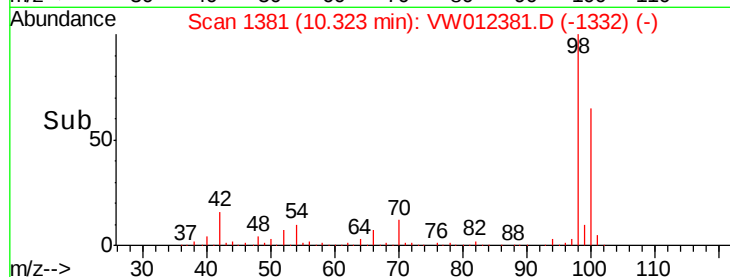
0

10.20

10.30

10.40

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.397 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.12 min

Lab File: VW012381.D

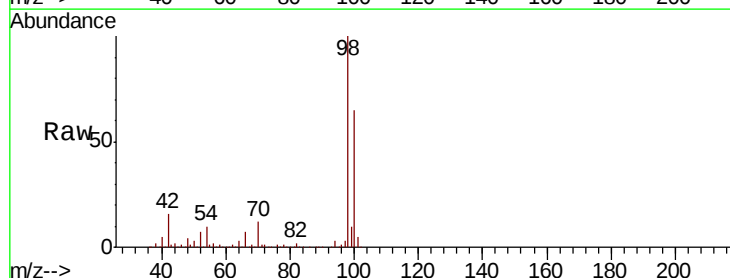
Acq: 31 Aug 2019 05:56

Tgt Ion: 43 Resp: 2401

Ion Ratio Lower Upper

43 100

58 165.1 28.2 42.2#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

2500

2000

1500

1000

500

0

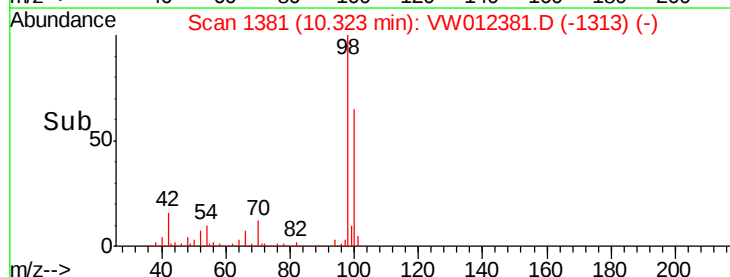
10.25

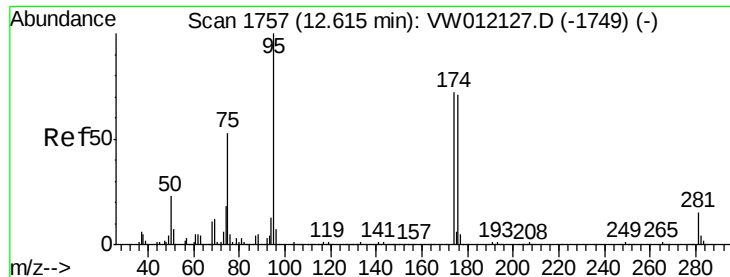
10.30

10.35

10.40

Time-->





#62

4-Bromofluorobenzene

Concen: 40.058 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012381.D

Acq: 31 Aug 2019 05:56

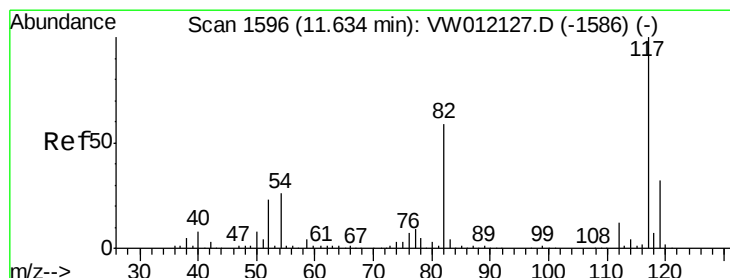
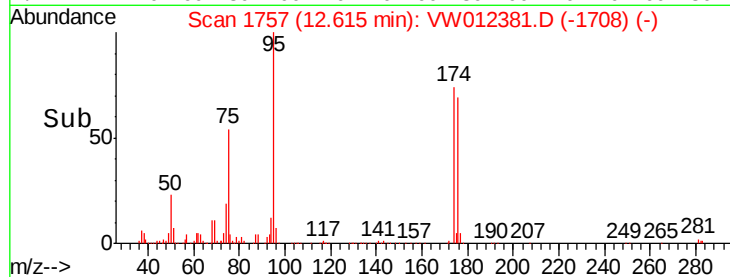
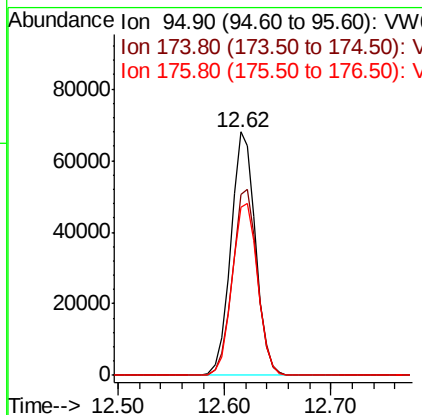
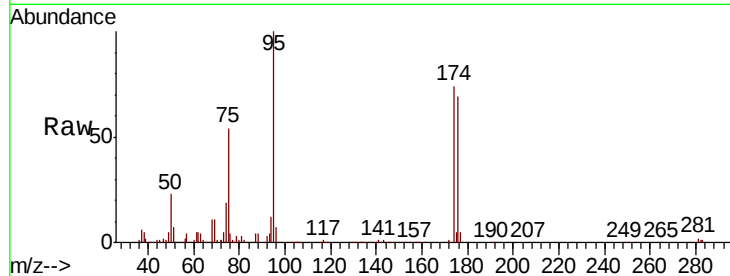
Instrument :

MSVOA_W

ClientSampleId :

T2-S-A1-(2.5)

Tgt Ion:	95	Resp:	110127
Ion Ratio	Lower	Upper	
95	100		
174	77.5	0.0	150.8
176	73.5	0.0	148.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

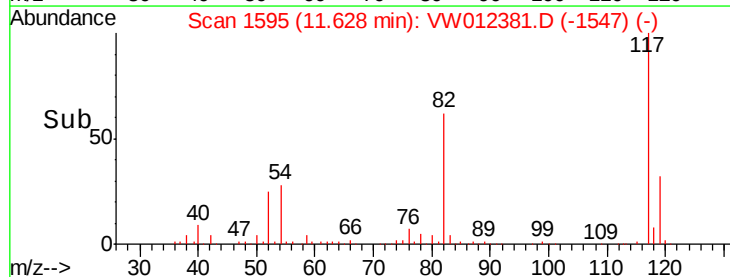
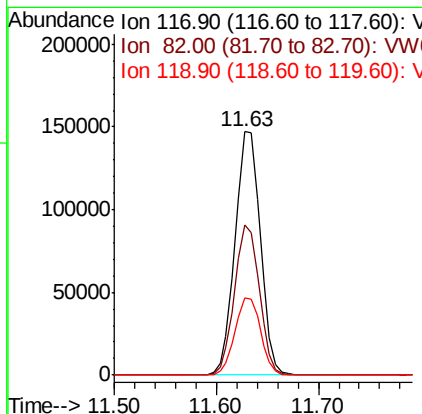
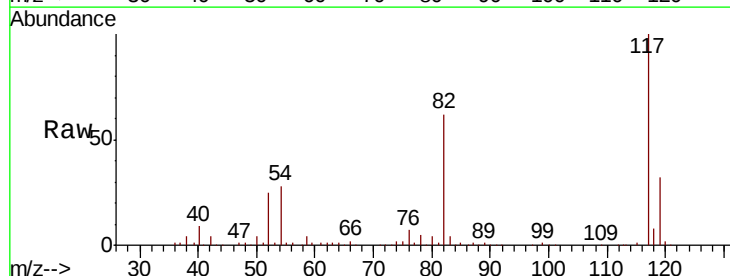
RT: 11.63 min Scan# 1595

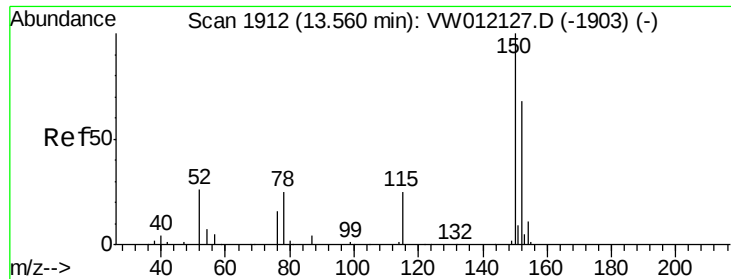
Delta R.T. -0.01 min

Lab File: VW012381.D

Acq: 31 Aug 2019 05:56

Tgt Ion:	117	Resp:	251724
Ion Ratio	Lower	Upper	
117	100		
82	61.9	47.4	71.2
119	32.0	25.4	38.2

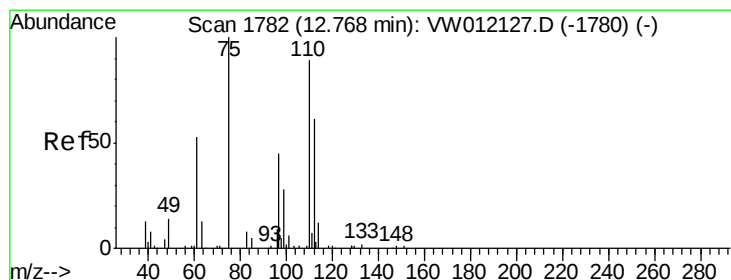
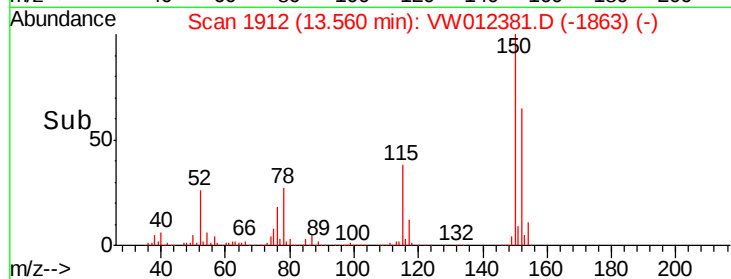
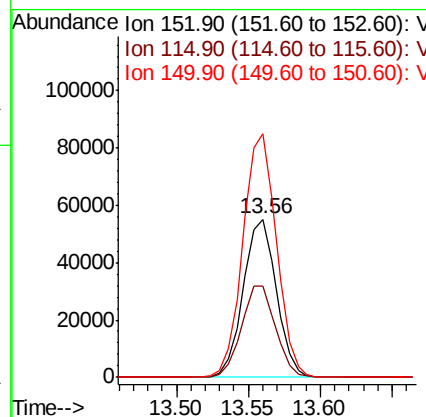
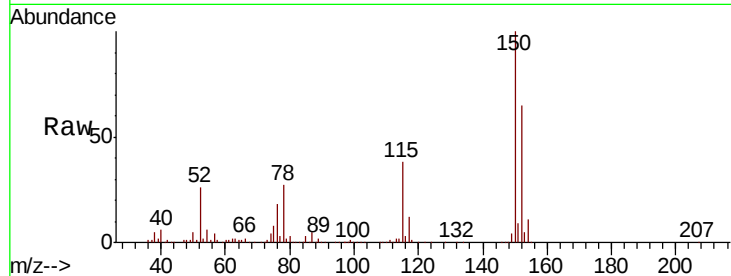




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.56 min Scan# 1912
 Delta R.T. -0.00 min
 Lab File: VW012381.D
 Acq: 31 Aug 2019 05:56

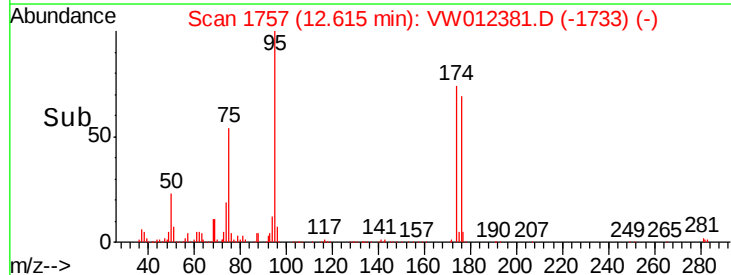
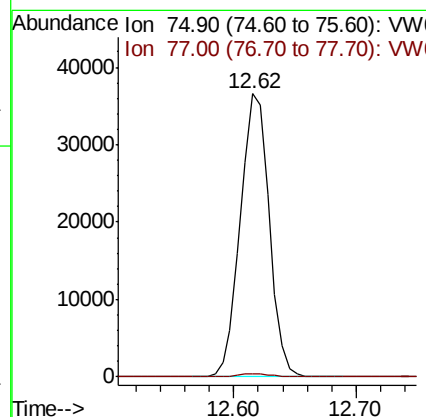
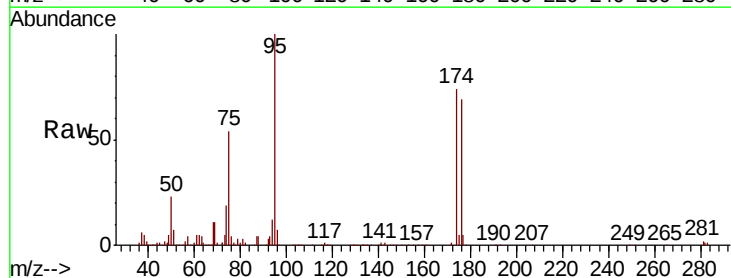
Instrument :
 MSVOA_W
 ClientSampleId :
 T2-S-A1-(2.5)

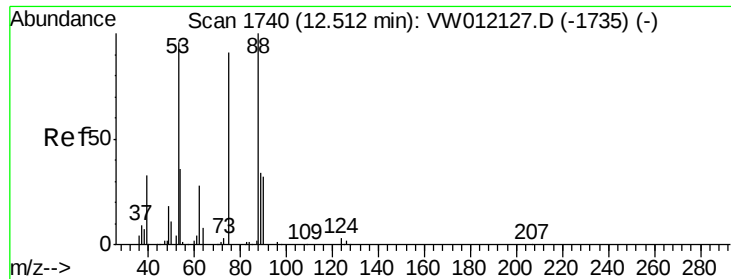
Tgt Ion:152 Resp: 87660
 Ion Ratio Lower Upper
 152 100
 115 59.7 30.1 90.3
 150 156.4 0.0 345.8



#76
 1,2,3-Trichloropropane
 Concen: 70.250 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.15 min
 Lab File: VW012381.D
 Acq: 31 Aug 2019 05:56

Tgt Ion: 75 Resp: 59976
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 154.027 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012381.D

Acq: 31 Aug 2019 05:56

Instrument :

MSVOA_W

ClientSampleId :

T2-S-A1-(2.5)

Tgt Ion: 75 Resp: 59976

Ion Ratio Lower Upper

75 100

53 0.3 89.4 134.0#

89 0.0 34.5 51.7#

