

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW090419\
 Data File : VW012616.D
 Acq On : 05 Sep 2019 03:59
 Operator : SY/VA
 Sample : K4547-06
 Misc : 4.10G/5ML/MSVOA_W/SOIL
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 T3-S-G-(2.5)

Quant Time: Sep 05 07:05:02 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	33946	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	53847	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	39678	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	10521	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	25580	63.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	126.78%	
35) Dibromofluoromethane	7.88	113	18349	57.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.18%	
50) Toluene-d8	10.32	98	63617	48.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.62%	
62) 4-Bromofluorobenzene	12.62	95	16342	35.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	71.14%	

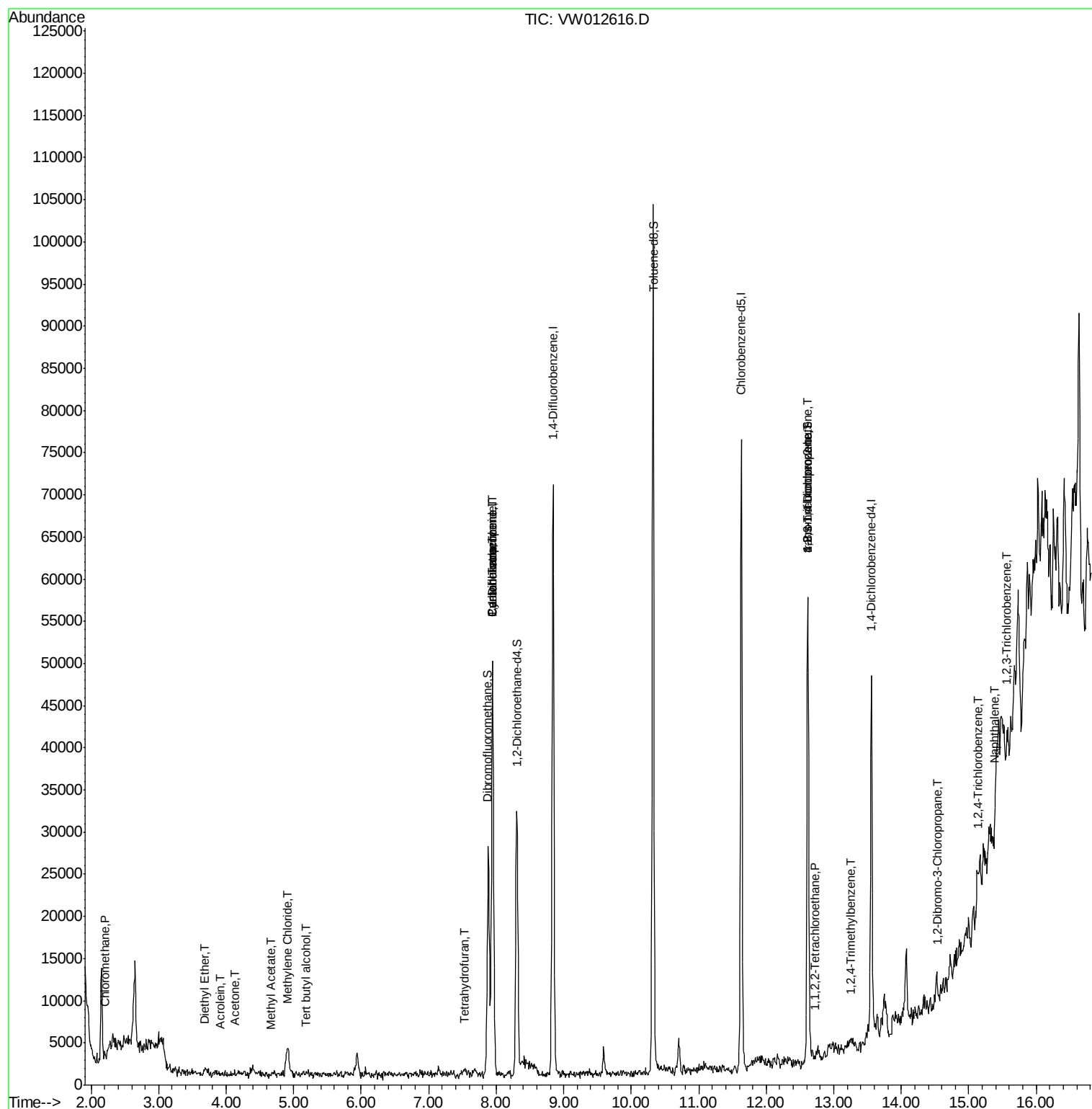
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.20	50	334	1.031	ug/l #	76
8) Diethyl Ether	3.68	74	193	1.022	ug/l	65
11) Tert butyl alcohol	5.18	59	58	2.388	ug/l #	1
13) Acrolein	3.91	56	76	3.325	ug/l #	77
16) Acetone	4.14	43	1069	10.363	ug/l #	81
18) Methyl Acetate	4.66	43	420	1.644	ug/l #	57
20) Methylene Chloride	4.90	84	2218	5.688	ug/l #	74
29) Tetrahydrofuran	7.53	42	584	6.944	ug/l #	66
31) Cyclohexane	7.95	56	1100	1.513	ug/l #	20
36) 1,1-Dichloropropene	7.94	75	2793	5.019	ug/l #	55
38) Carbon Tetrachloride	7.95	117	3706	7.695	ug/l #	12
75) 1,1,2,2-Tetrachloroethane	12.71	83	270	1.868	ug/l #	26
76) 1,2,3-Trichloropropane	12.62	75	8923	87.082	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	8923	190.930	ug/l #	8
84) 1,2,4-Trimethylbenzene	13.25	105	708	1.070	ug/l #	58
92) 1,2-Dibromo-3-Chloropropan	14.54	75	41	1.683	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.14	180	460	2.275	ug/l	62
95) Naphthalene	15.38	128	341	5.106	ug/l #	85
96) 1,2,3-Trichlorobenzene	15.57	180	547	3.100	ug/l #	24

(#) = 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: VW012616.D

Acq: 05 Sep 2019 03:59

Instrument :

MSVOA_W

ClientSampleId :

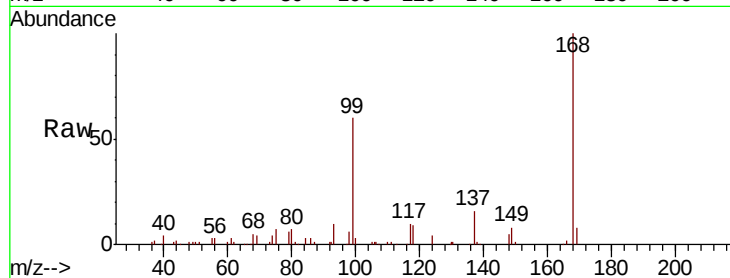
T3-S-G-(2.5)

Tgt Ion:168 Resp: 33946

Ion Ratio Lower Upper

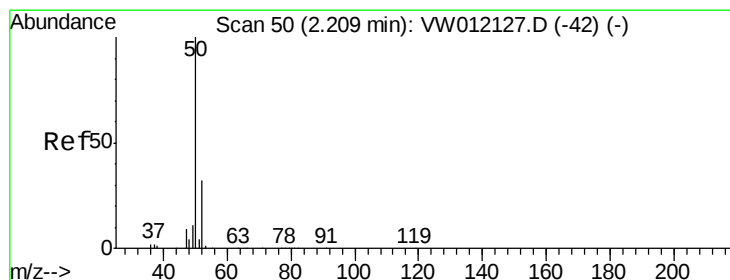
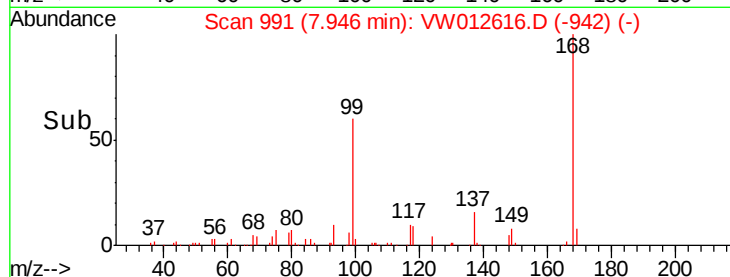
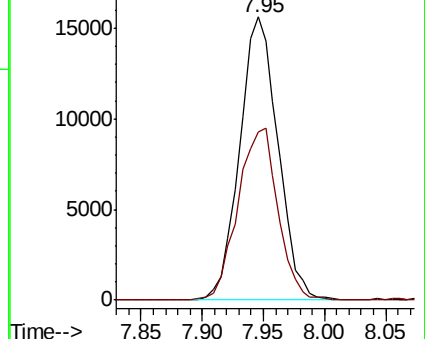
168 100

99 59.5 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#3

Chloromethane

Concen: 1.031 ug/l

RT: 2.20 min Scan# 49

Delta R.T. -0.01 min

Lab File: VW012616.D

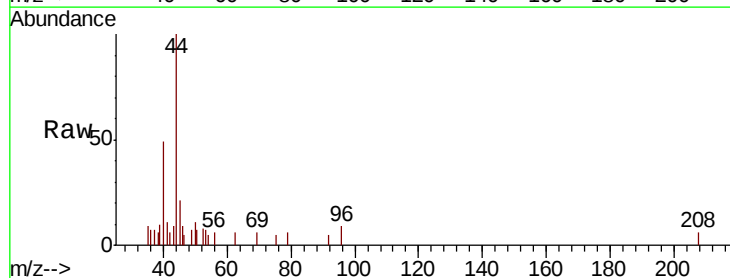
Acq: 05 Sep 2019 03:59

Tgt Ion: 50 Resp: 334

Ion Ratio Lower Upper

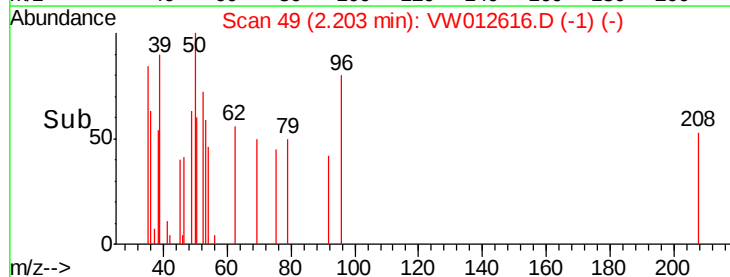
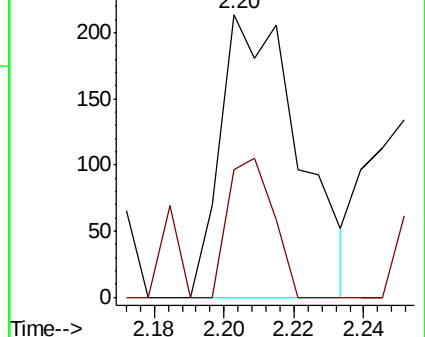
50 100

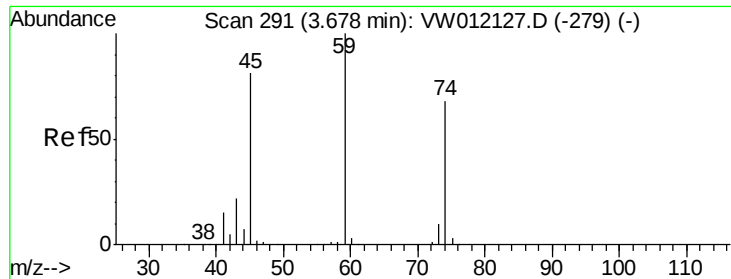
52 45.3 25.5 38.3#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW





#8

Diethyl Ether

Concen: 1.022 ug/l

RT: 3.68 min Scan# 291

Delta R.T. 0.00 min

Lab File: VW012616.D

Acq: 05 Sep 2019 03:59

Instrument :

MSVOA_W

ClientSampleId :

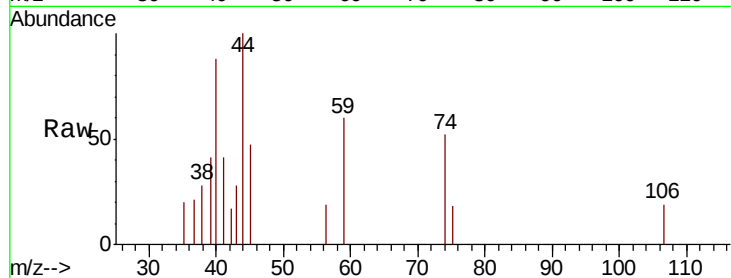
T3-S-G-(2.5)

Tgt Ion: 74 Resp: 193

Ion Ratio Lower Upper

74 100

45 157.0 59.2 177.6



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

250

200

150

100

50

0

3.64

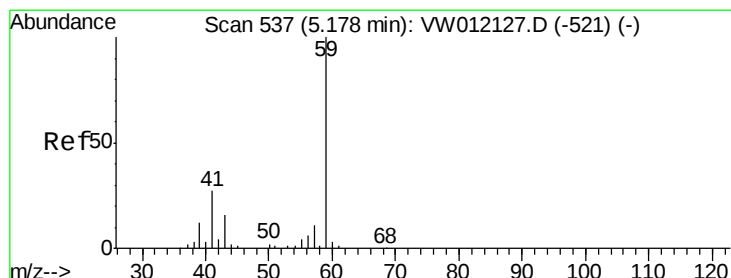
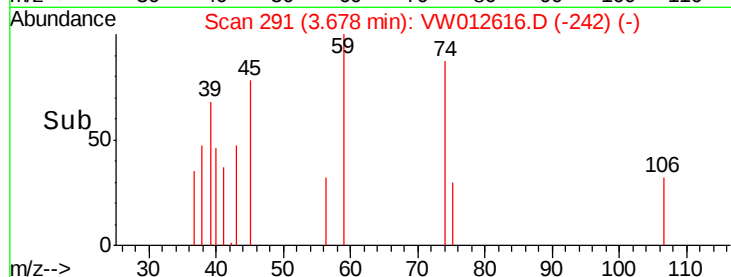
3.66

3.68

3.70

3.72

Time-->



#11

Tert butyl alcohol

Concen: 2.388 ug/l

RT: 5.18 min Scan# 538

Delta R.T. 0.01 min

Lab File: VW012616.D

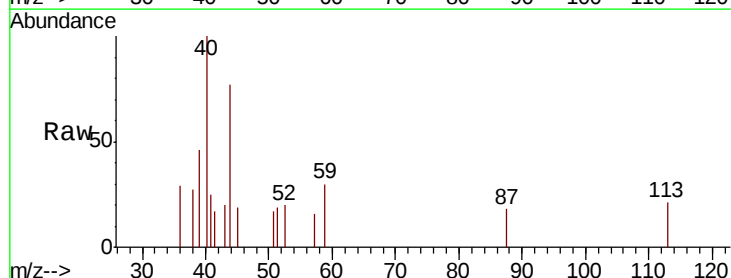
Acq: 05 Sep 2019 03:59

Tgt Ion: 59 Resp: 58

Ion Ratio Lower Upper

59 100

57 110.3 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

150

100

50

0

5.16

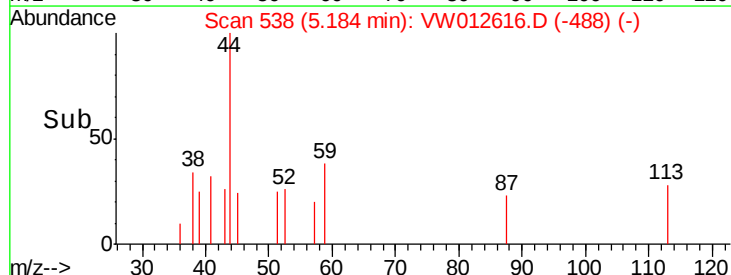
5.17

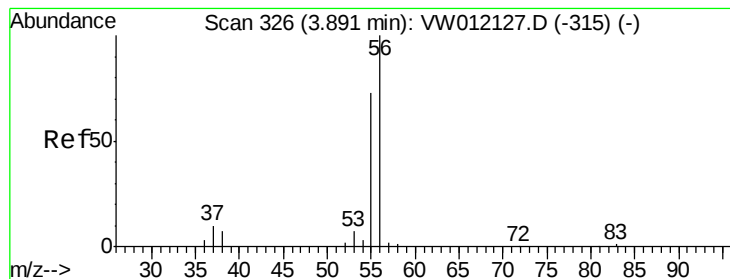
5.18

5.19

5.20

Time-->





#13

Acrolein

Concen: 3.325 ug/l

RT: 3.91 min Scan# 329

Delta R.T. 0.02 min

Lab File: VW012616.D

Acq: 05 Sep 2019 03:59

Instrument :

MSVOA_W

ClientSampled :

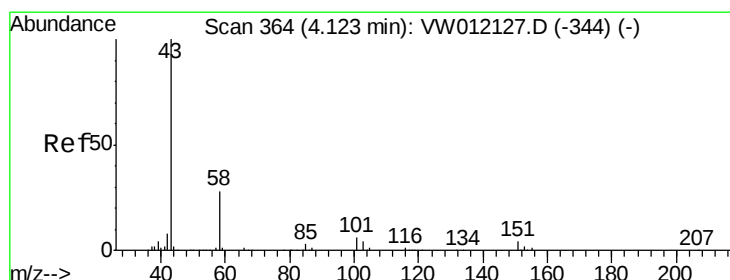
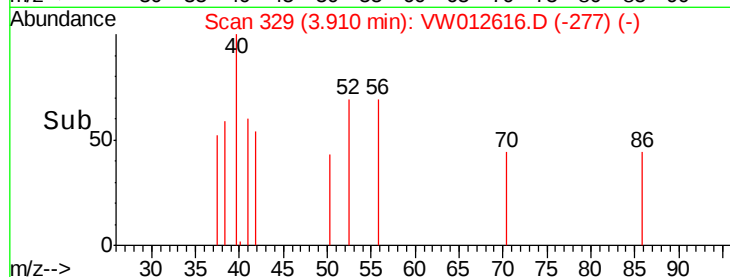
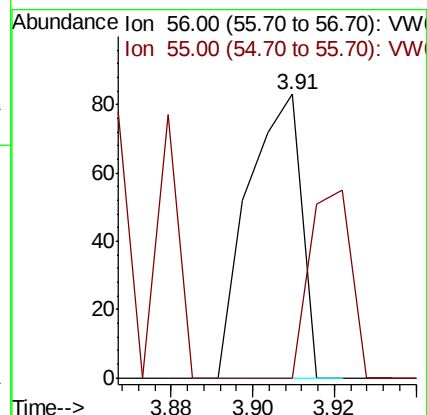
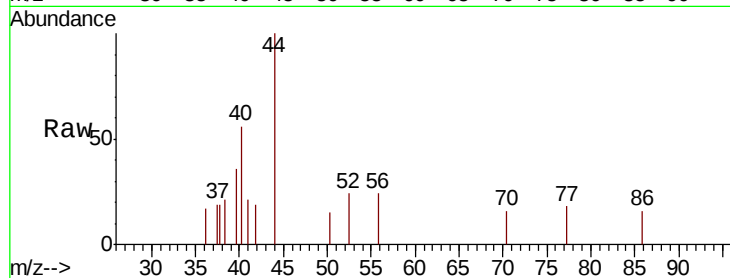
T3-S-G-(2.5)

Tgt Ion: 56 Resp: 76

Ion Ratio Lower Upper

56 100

55 51.3 55.8 83.8#



#16

Acetone

Concen: 10.363 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.01 min

Lab File: VW012616.D

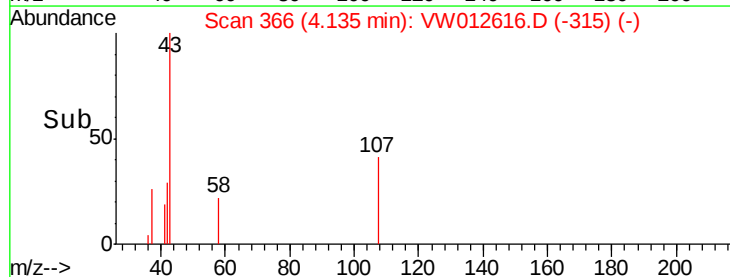
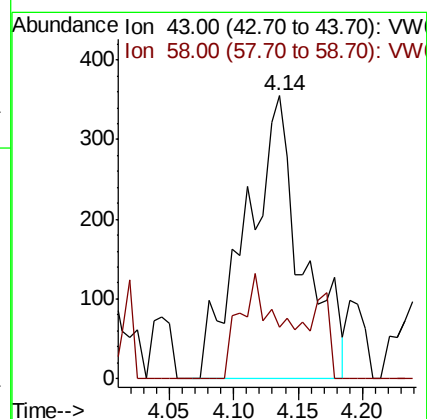
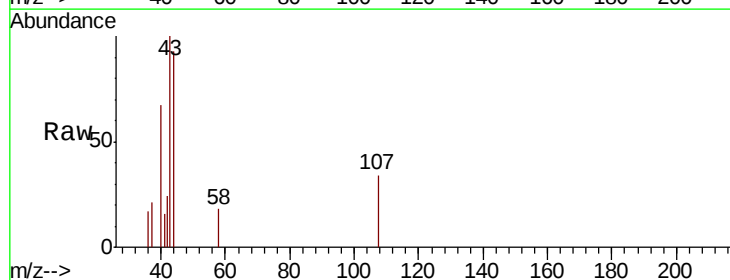
Acq: 05 Sep 2019 03:59

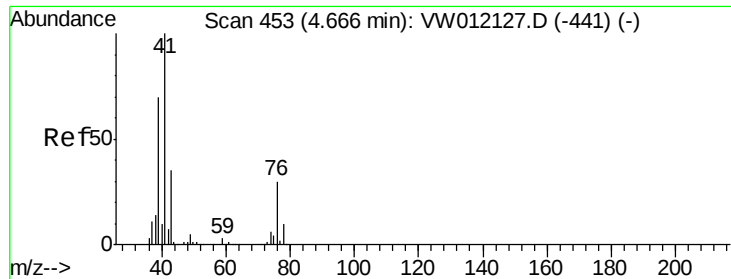
Tgt Ion: 43 Resp: 1069

Ion Ratio Lower Upper

43 100

58 18.0 22.4 33.6#

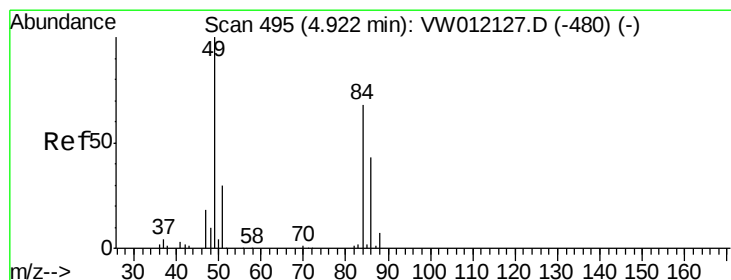
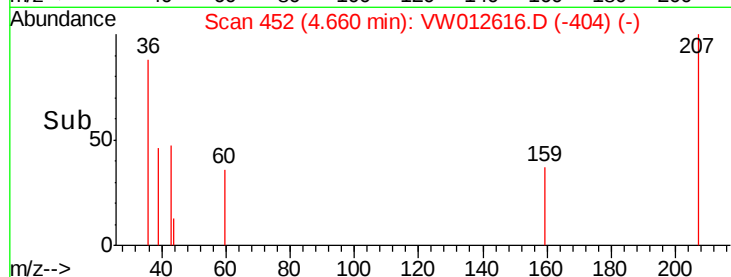
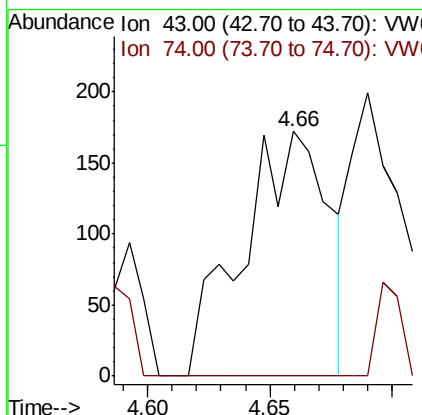
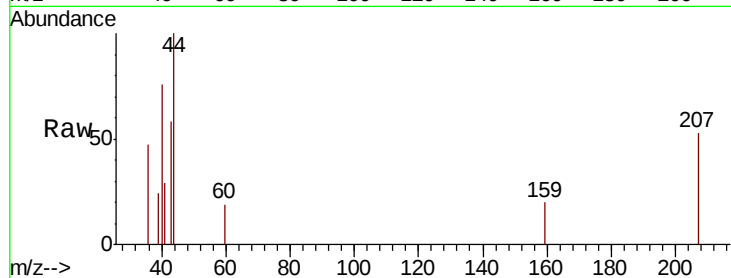




#18
Methyl Acetate
Concen: 1.644 ug/l
RT: 4.66 min Scan# 452
Delta R.T. -0.01 min
Lab File: VW012616.D
Acq: 05 Sep 2019 03:59

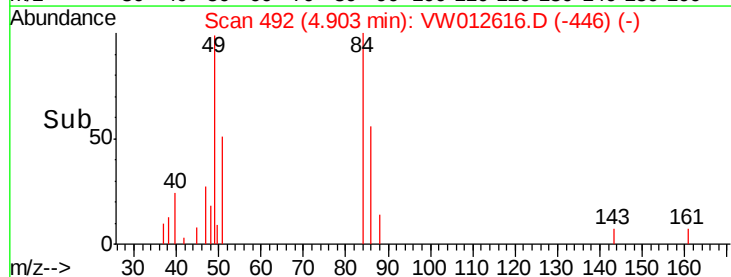
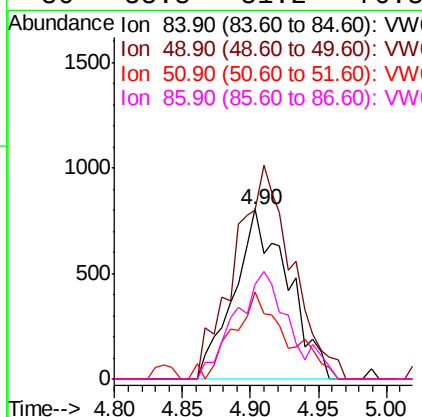
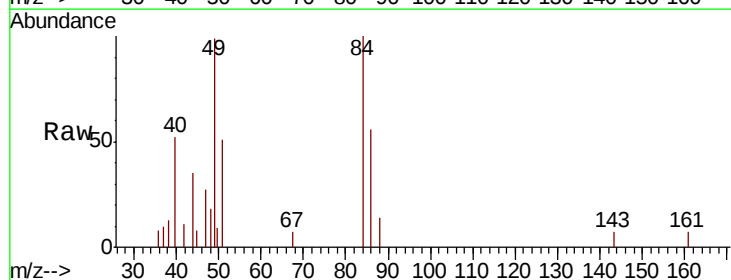
Instrument :
MSVOA_W
ClientSampleId :
T3-S-G-(2.5)

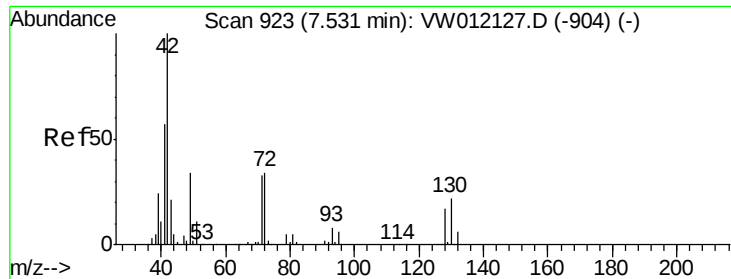
Tgt Ion: 43 Resp: 420
Ion Ratio Lower Upper
43 100
74 0.0 15.7 23.5#



#20
Methylene Chloride
Concen: 5.688 ug/l
RT: 4.90 min Scan# 492
Delta R.T. -0.02 min
Lab File: VW012616.D
Acq: 05 Sep 2019 03:59

Tgt Ion: 84 Resp: 2218
Ion Ratio Lower Upper
84 100
49 99.3 117.8 176.8#
51 51.2 35.6 53.4
86 55.8 51.2 76.8

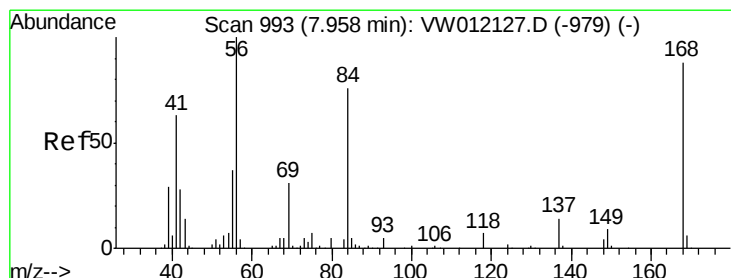
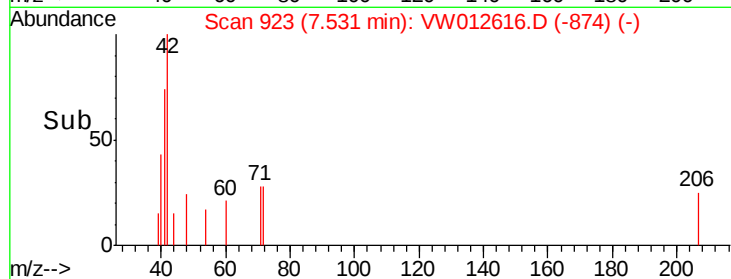
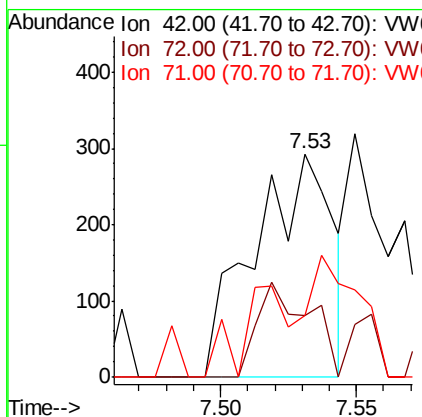
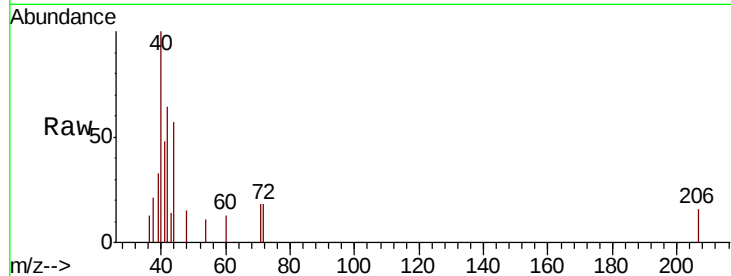




#29
Tetrahydrofuran
Concen: 6.944 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.00 min
Lab File: VW012616.D
Acq: 05 Sep 2019 03:59

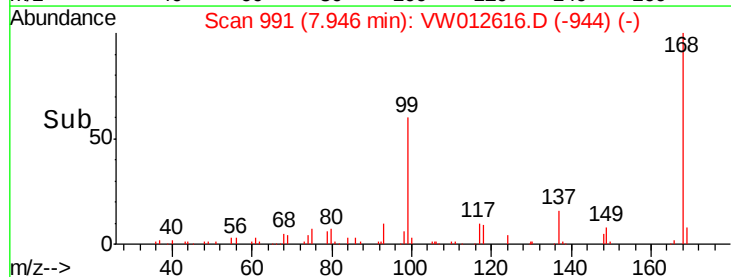
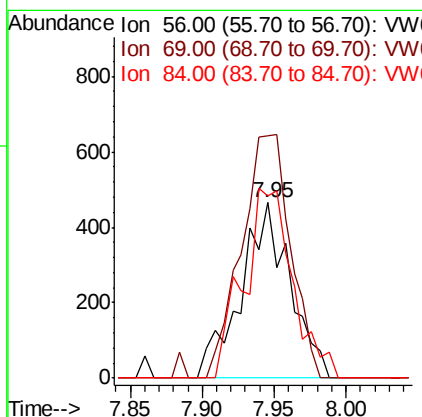
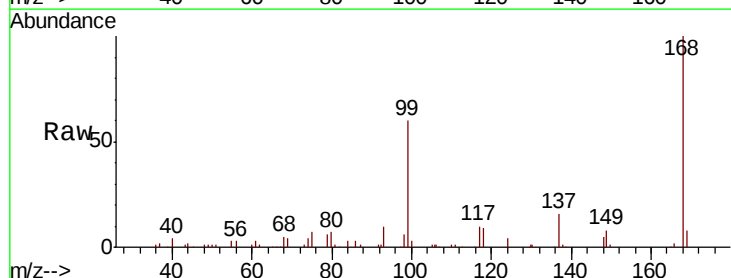
Instrument :
MSVOA_W
ClientSampleId :
T3-S-G-(2.5)

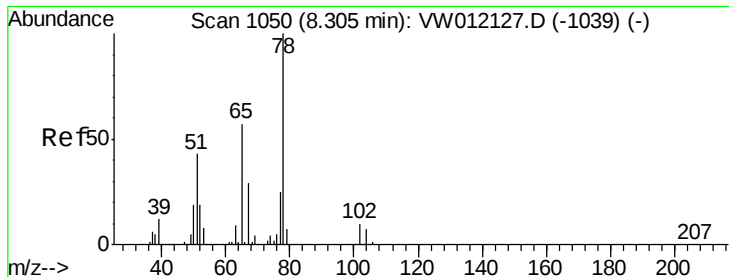
Tgt Ion: 42 Resp: 584
Ion Ratio Lower Upper
42 100
72 0.0 27.3 40.9#
71 35.6 25.5 38.3



#31
Cyclohexane
Concen: 1.513 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW012616.D
Acq: 05 Sep 2019 03:59

Tgt Ion: 56 Resp: 1100
Ion Ratio Lower Upper
56 100
69 138.5 24.9 37.3#
84 103.9 60.6 90.8#





#33

1,2-Dichloroethane-d4

Concen: 63.390 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW012616.D

Acq: 05 Sep 2019 03:59

Instrument :

MSVOA_W

ClientSampleId :

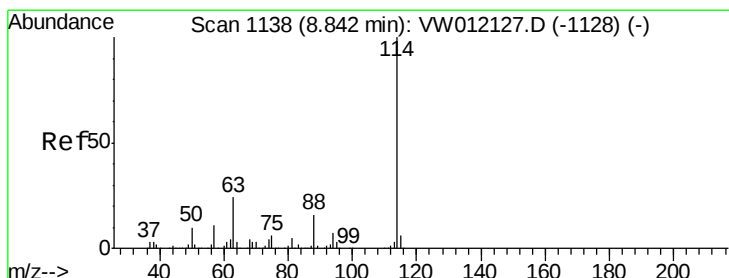
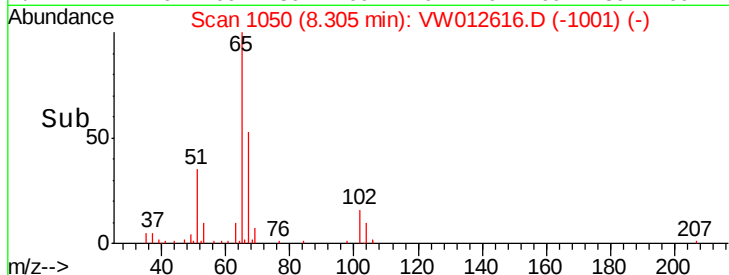
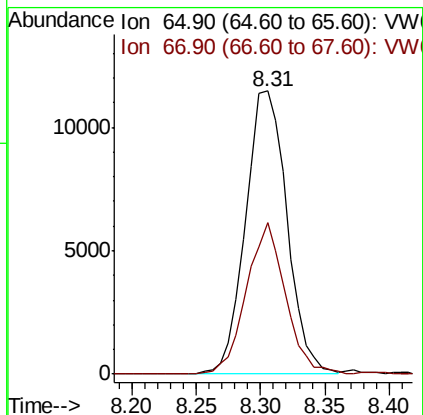
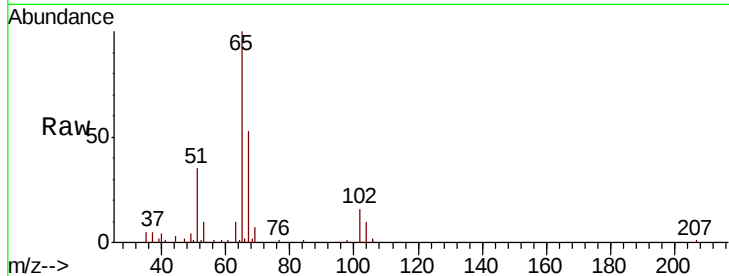
T3-S-G-(2.5)

Tgt Ion: 65 Resp: 25580

Ion Ratio Lower Upper

65 100

67 50.3 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: VW012616.D

Acq: 05 Sep 2019 03:59

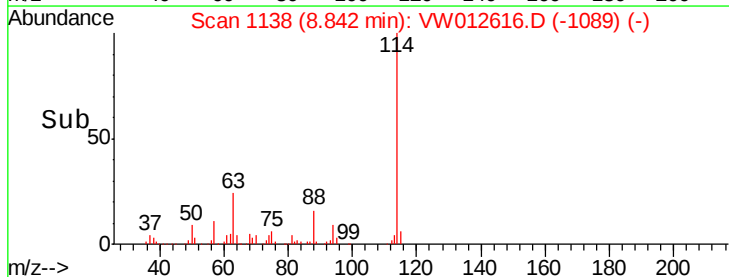
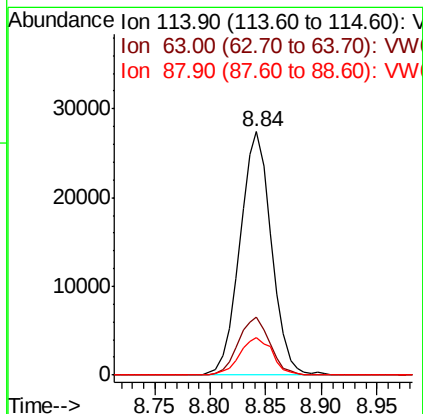
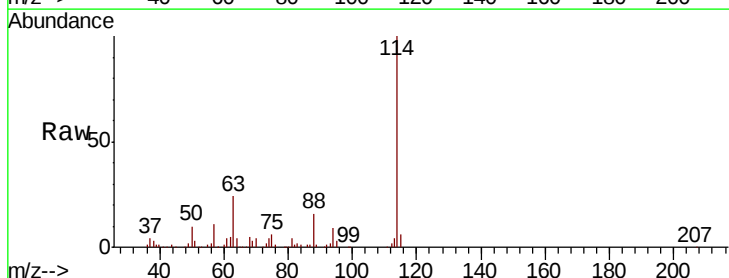
Tgt Ion: 114 Resp: 53847

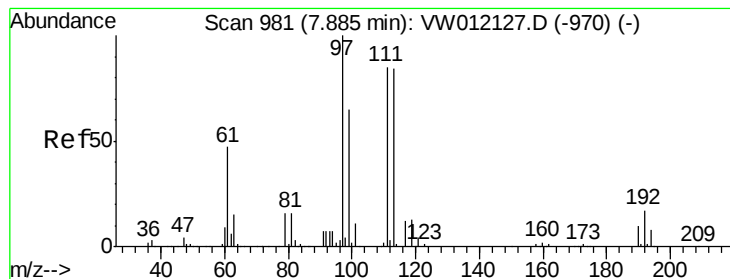
Ion Ratio Lower Upper

114 100

63 23.6 0.0 48.6

88 15.7 0.0 32.2





#35

Dibromofluoromethane

Concen: 57.088 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.01 min

Lab File: VW012616.D

Acq: 05 Sep 2019 03:59

Instrument :

MSVOA_W

ClientSampled :

T3-S-G-(2.5)

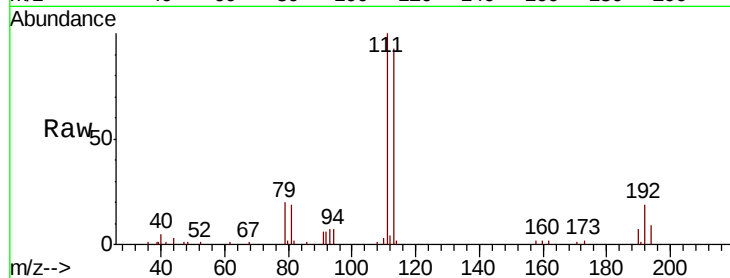
Tgt Ion:113 Resp: 18349

Ion Ratio Lower Upper

113 100

111 105.9 82.7 124.1

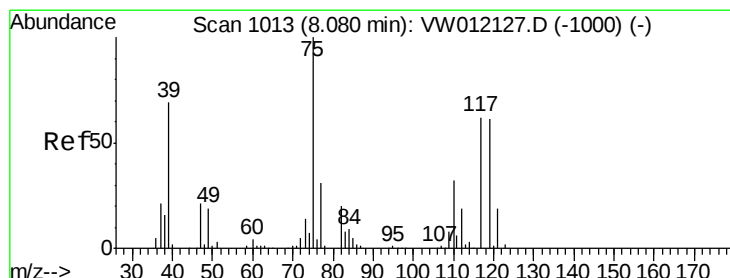
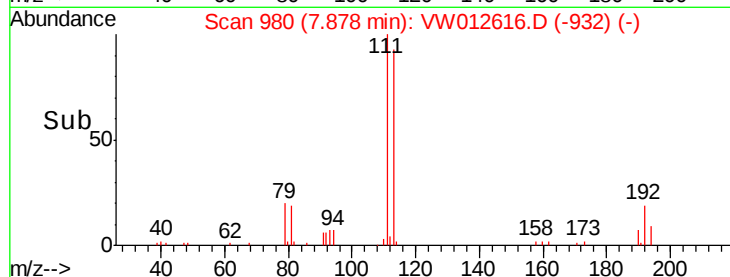
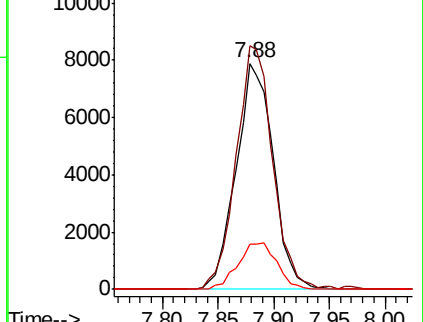
192 21.5 16.2 24.2



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: 5.019 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW012616.D

Acq: 05 Sep 2019 03:59

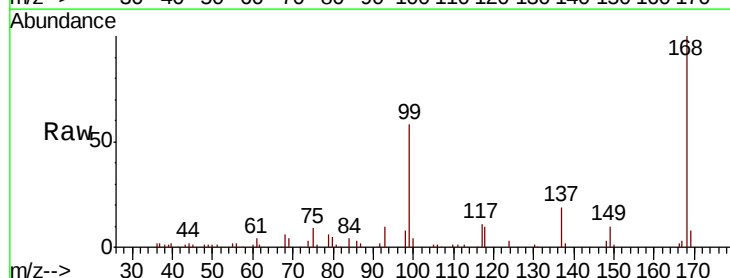
Tgt Ion: 75 Resp: 2793

Ion Ratio Lower Upper

75 100

110 12.0 15.6 46.8#

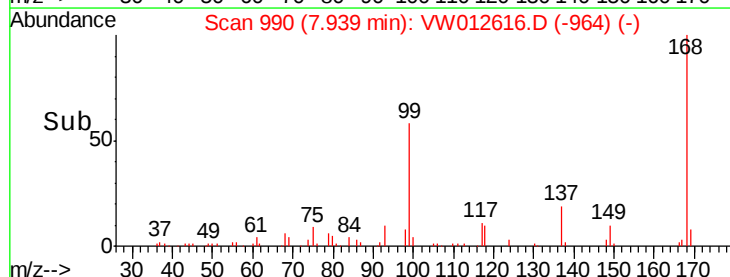
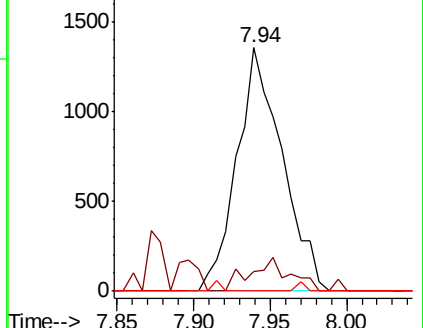
77 0.0 24.6 36.8#

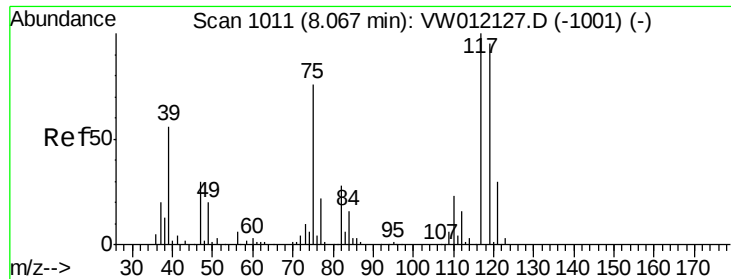


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

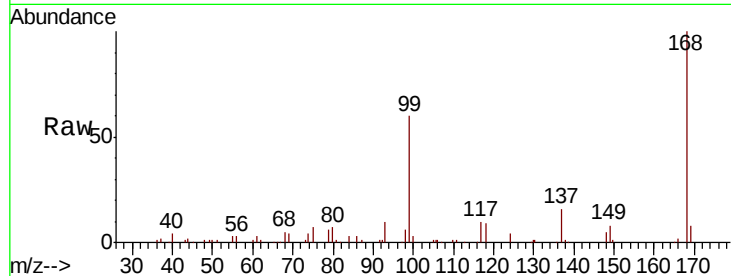




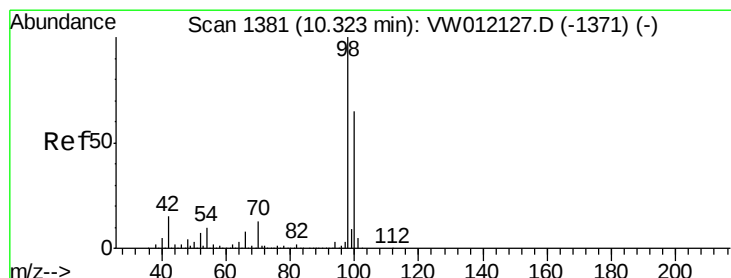
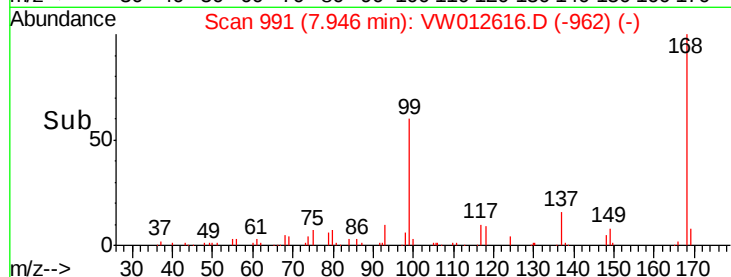
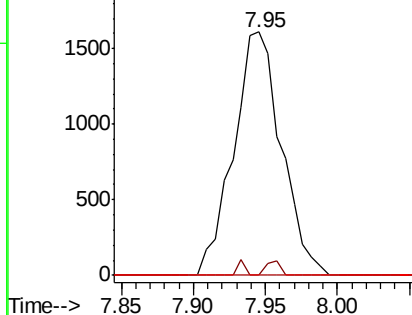
#38
Carbon Tetrachloride
Concen: 7.695 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW012616.D
Acq: 05 Sep 2019 03:59

Instrument :
MSVOA_W
ClientSampleId :
T3-S-G-(2.5)

Tgt Ion:117 Resp: 3706
Ion Ratio Lower Upper
117 100
119 0.0 76.2 114.2#
121 0.0 23.8 35.8#

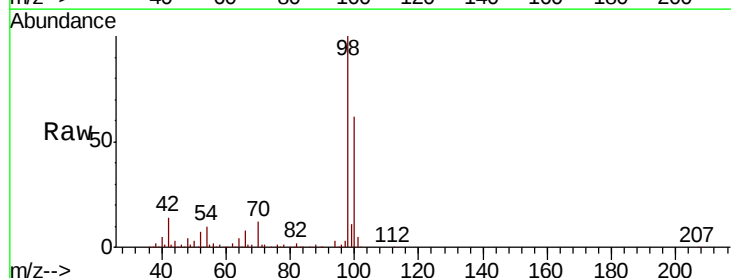


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

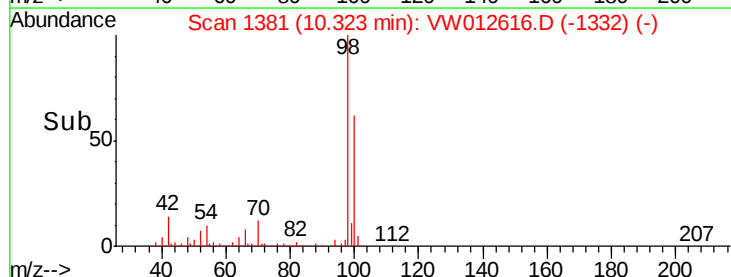
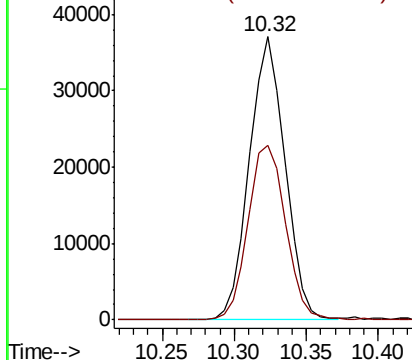


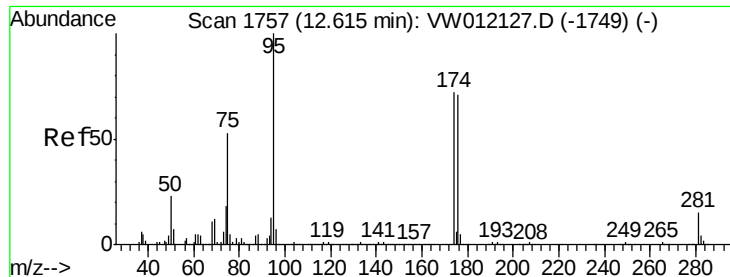
#50
Toluene-d8
Concen: 48.814 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW012616.D
Acq: 05 Sep 2019 03:59

Tgt Ion: 98 Resp: 63617
Ion Ratio Lower Upper
98 100
100 64.9 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VW
Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 35.573 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VW012616.D

Acq: 05 Sep 2019 03:59

Instrument :

MSVOA_W

ClientSampled :

T3-S-G-(2.5)

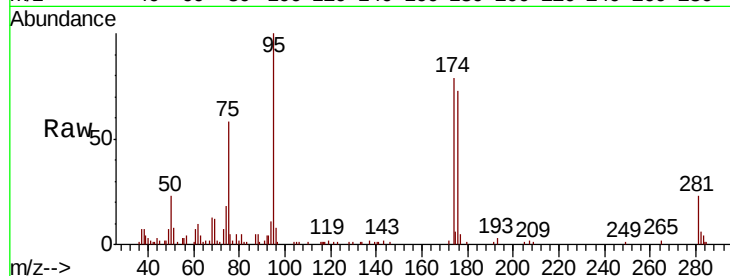
Tgt Ion: 95 Resp: 16342

Ion Ratio Lower Upper

95 100

174 76.4 0.0 150.8

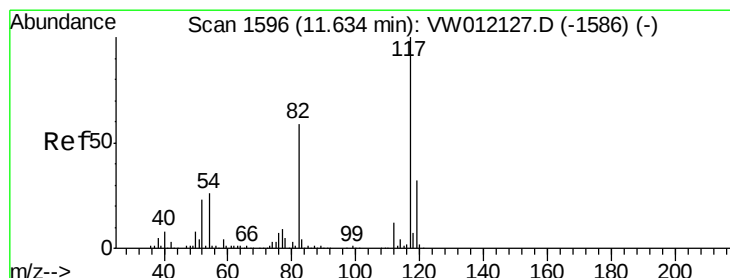
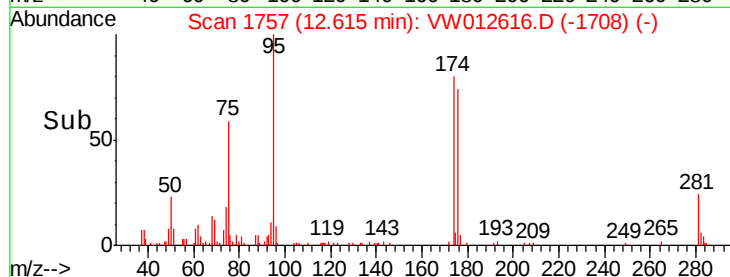
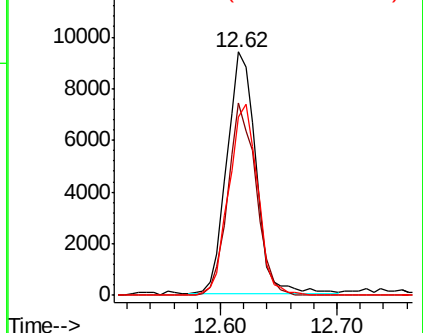
176 78.4 0.0 148.6



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: VW012616.D

Acq: 05 Sep 2019 03:59

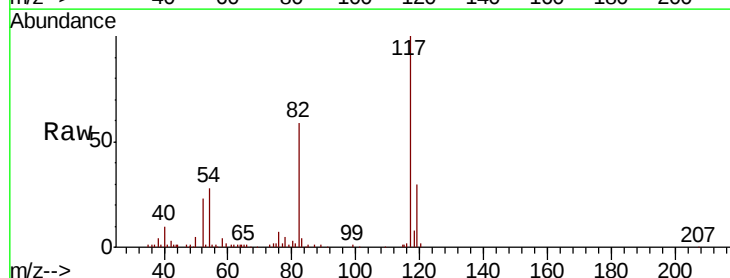
Tgt Ion: 117 Resp: 39678

Ion Ratio Lower Upper

117 100

82 59.1 47.4 71.2

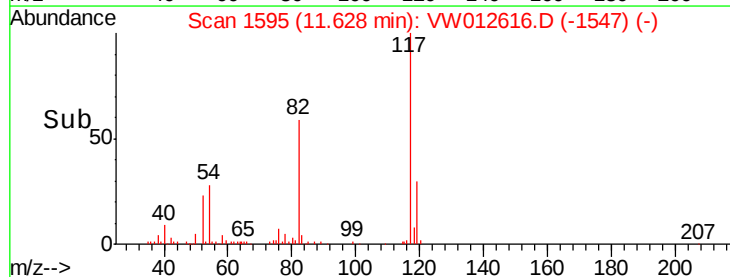
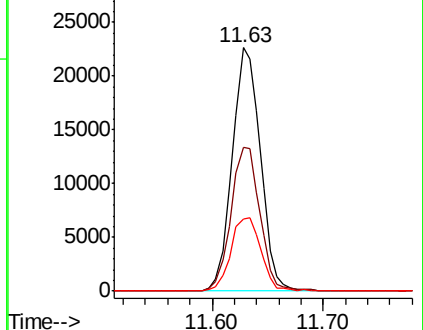
119 29.4 25.4 38.2

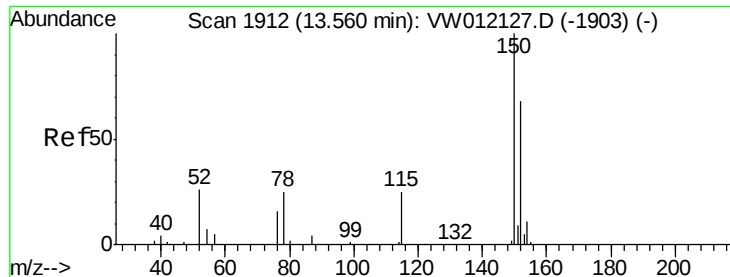


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW



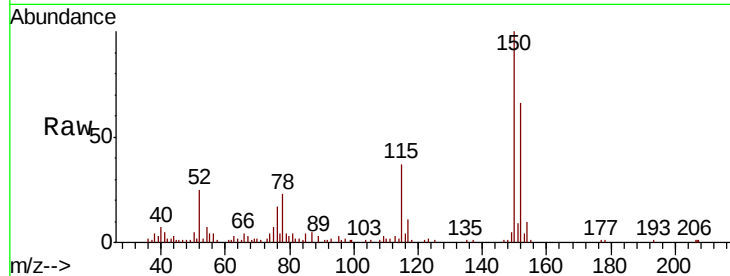


#72

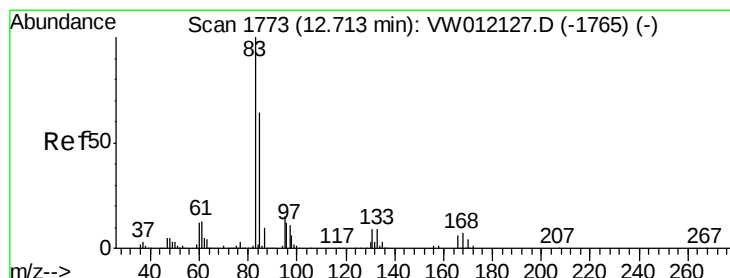
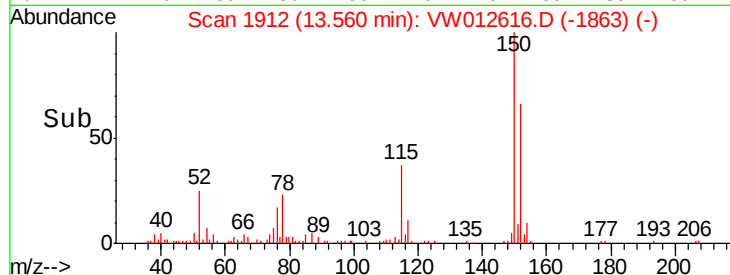
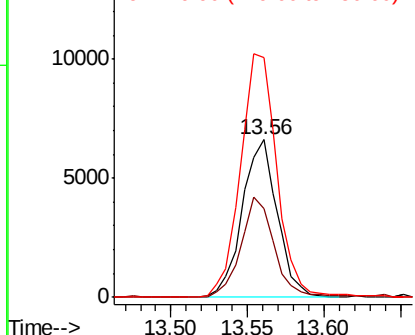
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW012616.D
Acq: 05 Sep 2019 03:59

Instrument :
MSVOA_W
ClientSampled :
T3-S-G-(2.5)

Tgt Ion:152 Resp: 10521
Ion Ratio Lower Upper
152 100
115 60.1 30.1 90.3
150 161.1 0.0 345.8



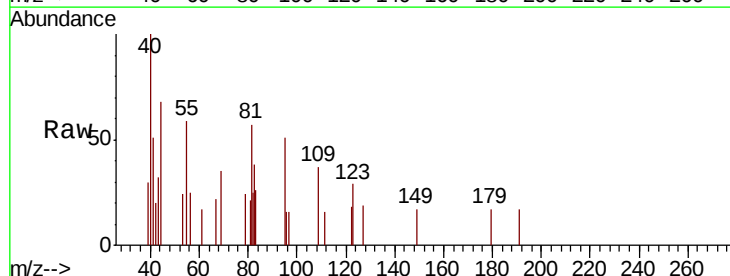
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



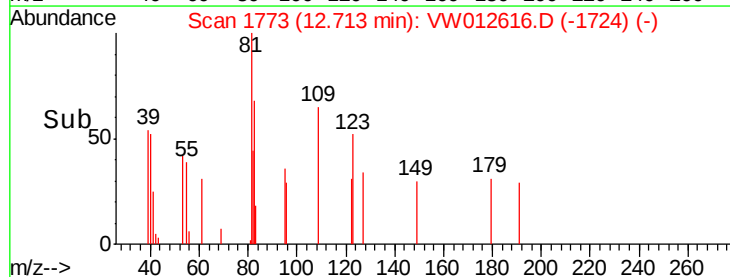
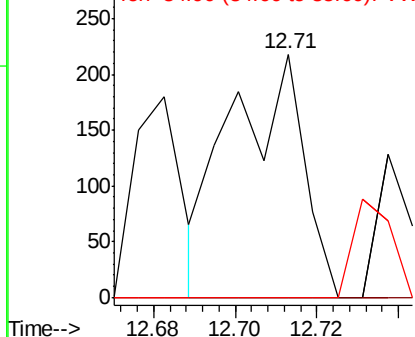
#75

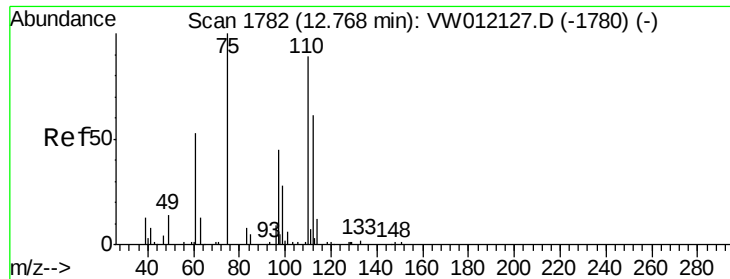
1,1,2,2-Tetrachloroethane
Concen: 1.868 ug/l
RT: 12.71 min Scan# 1773
Delta R.T. 0.00 min
Lab File: VW012616.D
Acq: 05 Sep 2019 03:59

Tgt Ion: 83 Resp: 270
Ion Ratio Lower Upper
83 100
131 0.0 4.9 14.7#
85 0.0 31.9 95.7#



Abundance Ion 82.90 (82.60 to 83.60): VW
Ion 130.80 (130.50 to 131.50): V
Ion 84.90 (84.60 to 85.60): VW

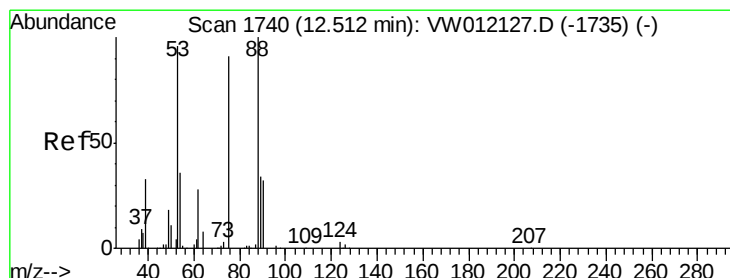
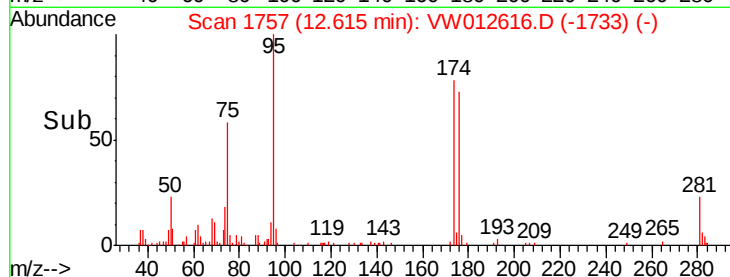
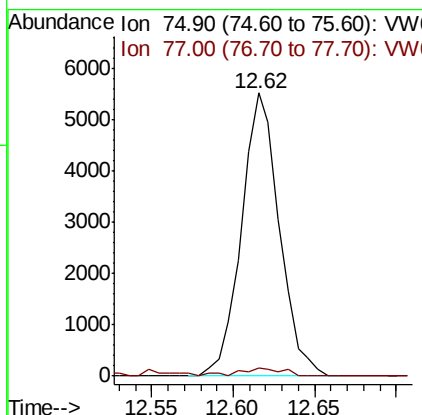
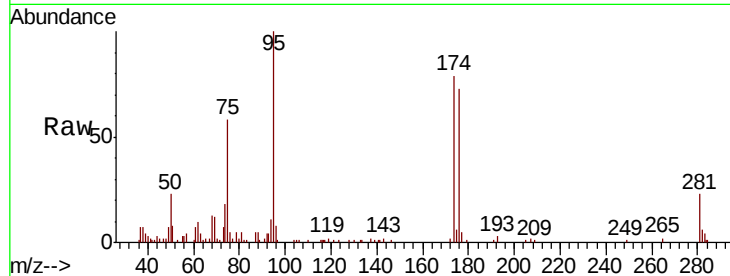




#76
 1,2,3-Trichloropropane
 Concen: 87.082 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.15 min
 Lab File: VW012616.D
 Acq: 05 Sep 2019 03:59

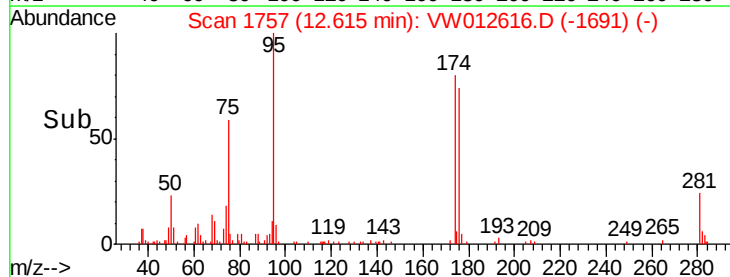
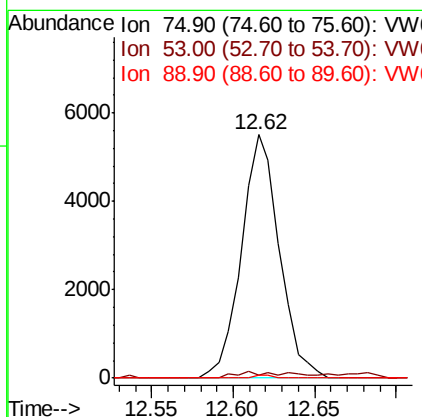
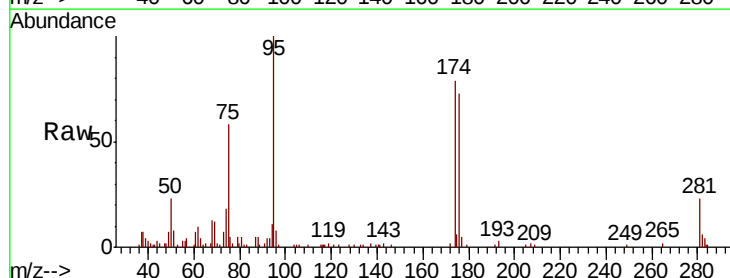
Instrument :
 MSVOA_W
 ClientSampled :
 T3-S-G-(2.5)

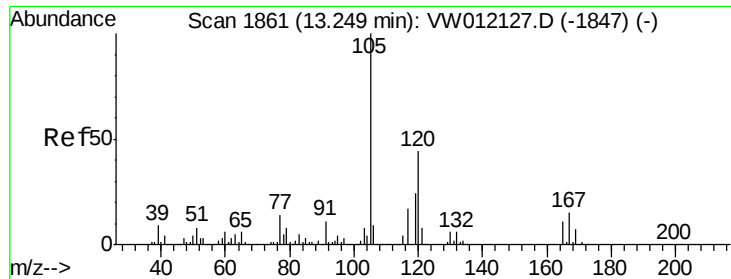
Tgt Ion: 75 Resp: 8923
 Ion Ratio Lower Upper
 75 100
 77 3.4 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 190.930 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. 0.10 min
 Lab File: VW012616.D
 Acq: 05 Sep 2019 03:59

Tgt Ion: 75 Resp: 8923
 Ion Ratio Lower Upper
 75 100
 53 2.4 89.4 134.0#
 89 0.5 34.5 51.7#

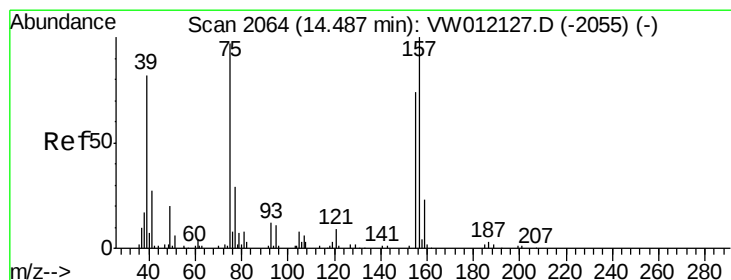
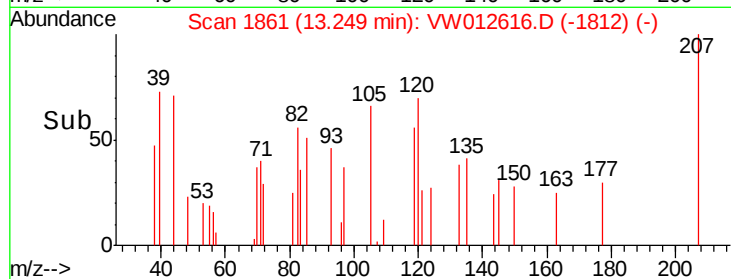
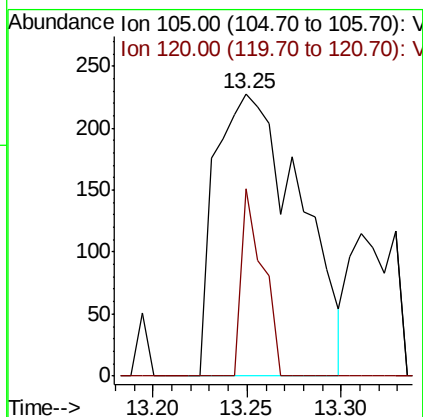
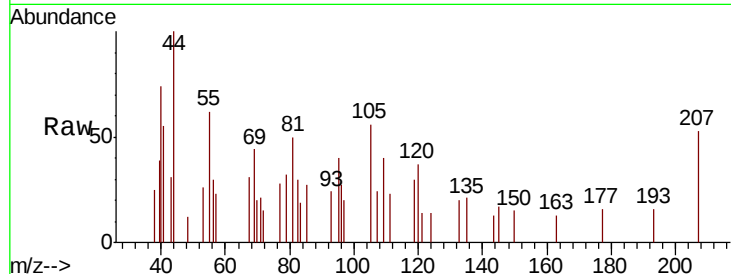




#84
 1,2,4-Trimethylbenzene
 Concen: 1.070 ug/l
 RT: 13.25 min Scan# 1861
 Delta R.T. 0.00 min
 Lab File: VW012616.D
 Acq: 05 Sep 2019 03:59

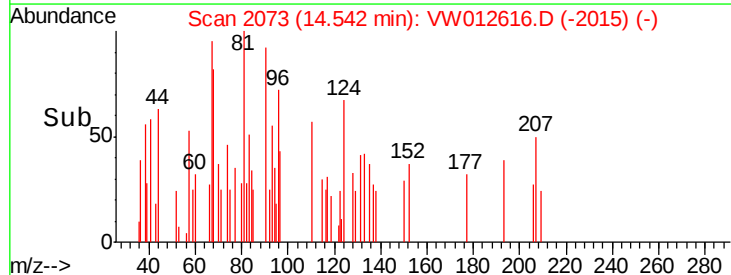
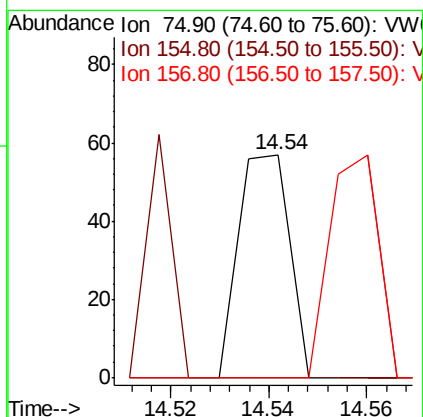
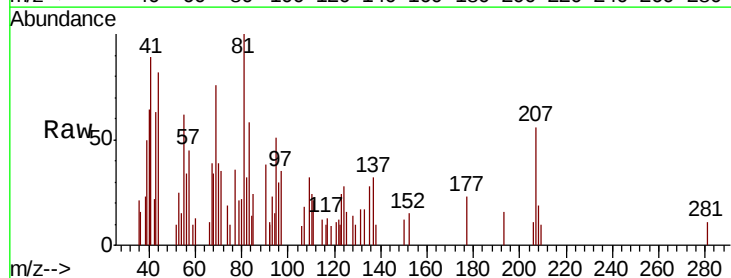
Instrument :
 MSVOA_W
 ClientSampled :
 T3-S-G-(2.5)

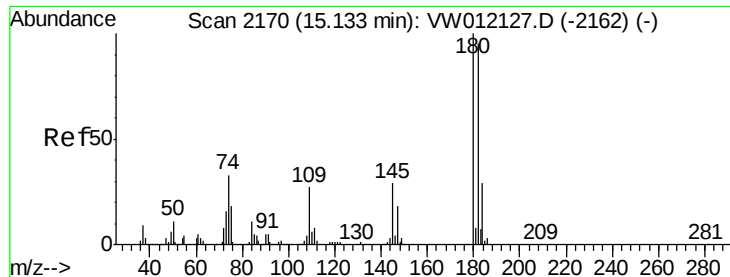
Tgt Ion: 105 Resp: 708
 Ion Ratio Lower Upper
 105 100
 120 16.8 21.9 65.7#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.683 ug/l
 RT: 14.54 min Scan# 2073
 Delta R.T. 0.05 min
 Lab File: VW012616.D
 Acq: 05 Sep 2019 03:59

Tgt Ion: 75 Resp: 41
 Ion Ratio Lower Upper
 75 100
 155 0.0 37.5 112.3#
 157 0.0 50.5 151.5#

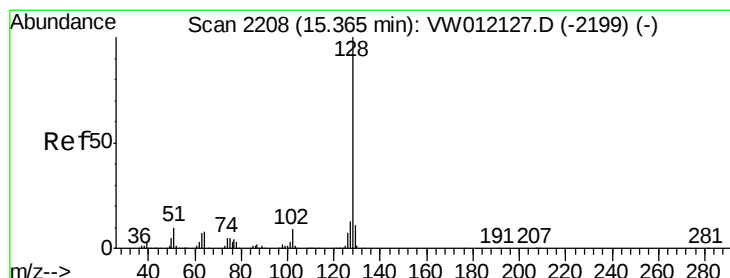
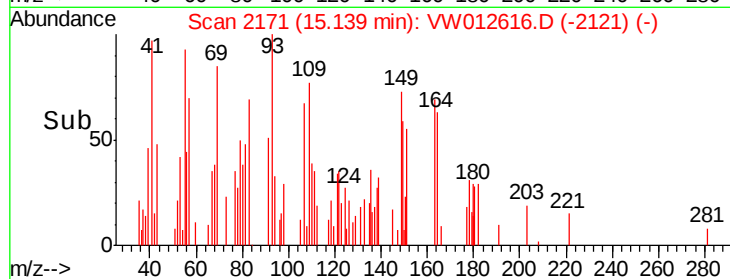
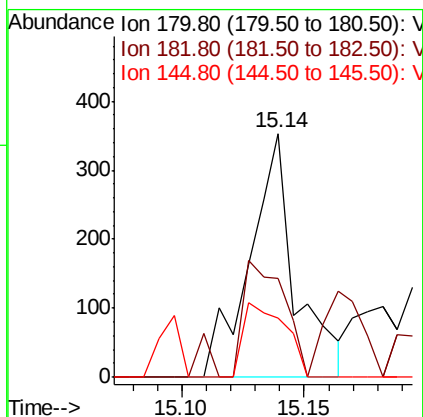
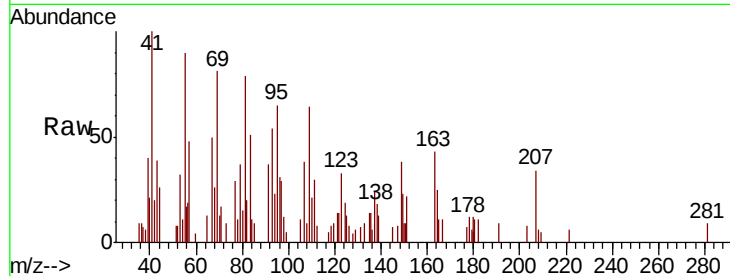




#93
 1,2,4-Trichlorobenzene
 Concen: 2.275 ug/l
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.01 min
 Lab File: VW012616.D
 Acq: 05 Sep 2019 03:59

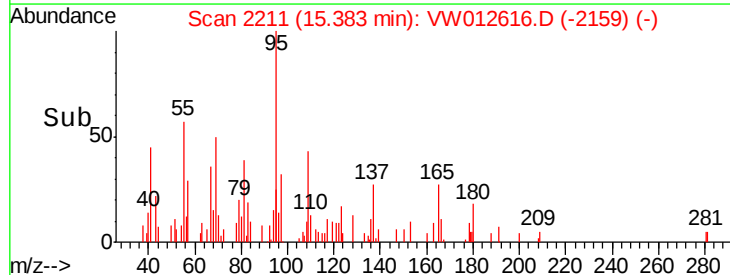
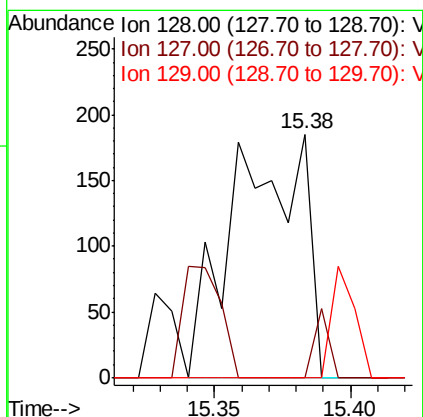
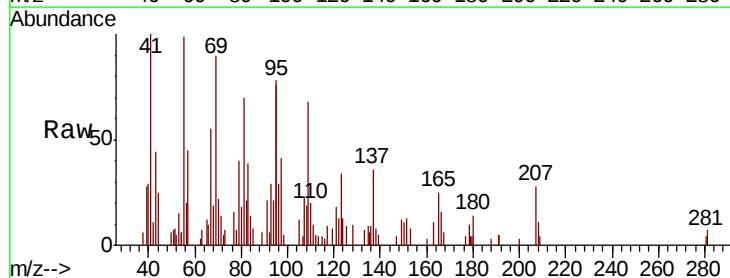
Instrument :
 MSVOA_W
 ClientSampleId :
 T3-S-G-(2.5)

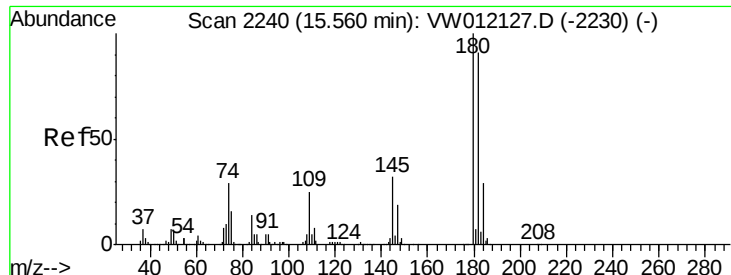
Tgt Ion:180 Resp: 460
 Ion Ratio Lower Upper
 180 100
 182 48.0 47.8 143.4
 145 27.8 15.0 45.1



#95
 Naphthalene
 Concen: 5.106 ug/l
 RT: 15.38 min Scan# 2211
 Delta R.T. 0.02 min
 Lab File: VW012616.D
 Acq: 05 Sep 2019 03:59

Tgt Ion:128 Resp: 341
 Ion Ratio Lower Upper
 128 100
 127 5.6 10.7 16.1#
 129 14.7 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 3.100 ug/l
 RT: 15.57 min Scan# 2241
 Delta R.T. 0.01 min
 Lab File: VW012616.D
 Acq: 05 Sep 2019 03:59

Instrument :
 MSVOA_W
 ClientSampleId :
 T3-S-G-(2.5)

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.1	141.3#
145	24.9	16.2	48.5

