

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW090519\
 Data File : VW012645.D
 Acq On : 05 Sep 2019 17:11
 Operator : SY/VA
 Sample : K4547-09RE
 Misc : 3.81G/5ML/MSVOA_W/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 T3-S-F-(2.5)RE

Quant Time: Sep 06 07:53:48 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	19682	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	29806	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	26260	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	5952	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	12269	52.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.88%	
35) Dibromofluoromethane	7.88	113	10023	56.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.68%	
50) Toluene-d8	10.32	98	37182	51.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.08%	
62) 4-Bromofluorobenzene	12.62	95	10482	41.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	82.44%	

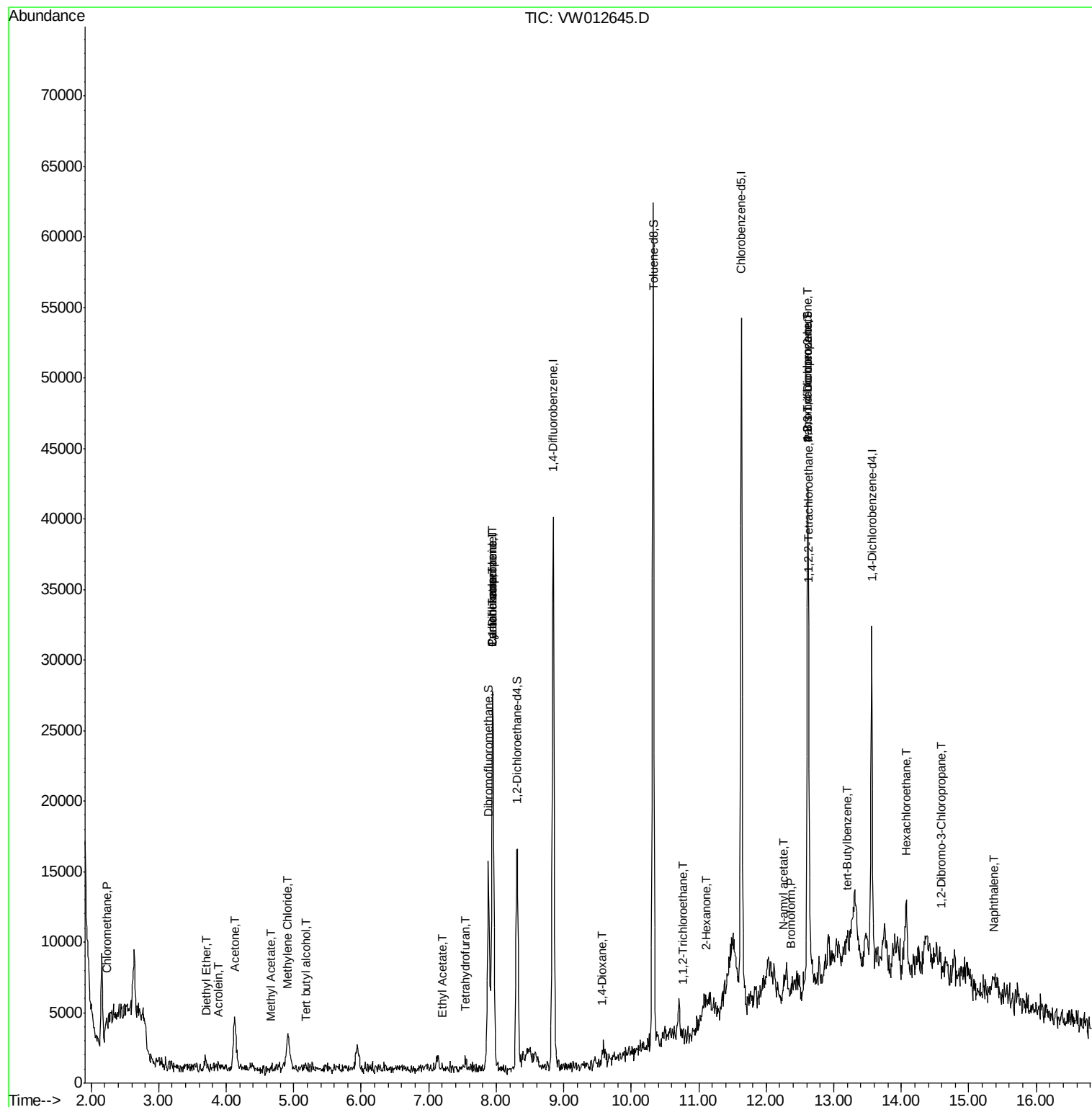
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.22	50	360	1.917	ug/l #	43
8) Diethyl Ether	3.70	74	220	2.009	ug/l	47
11) Tert butyl alcohol	5.19	59	28	1.989	ug/l #	71
13) Acrolein	3.89	56	84	6.338	ug/l #	38
16) Acetone	4.12	43	6648	111.156	ug/l #	82
18) Methyl Acetate	4.67	43	197	1.330	ug/l #	57
20) Methylene Chloride	4.92	84	1698	7.510	ug/l #	77
29) Tetrahydrofuran	7.54	42	413	8.470	ug/l #	60
31) Cyclohexane	7.94	56	599	1.421	ug/l #	27
36) 1,1-Dichloropropene	7.95	75	1563	5.075	ug/l #	57
37) Ethyl Acetate	7.20	43	222	1.315	ug/l #	73
38) Carbon Tetrachloride	7.95	117	1870	7.015	ug/l #	18
49) 1,4-Dioxane	9.57	88	20	12.972	ug/l #	1
55) 1,1,2-Trichloroethane	10.77	97	147	1.032	ug/l #	49
59) 2-Hexanone	11.10	43	162	1.440	ug/l	94
71) Bromoform	12.35	173	136	1.513	ug/l #	28
74) N-amyl acetate	12.26	43	165	1.225	ug/l #	47
75) 1,1,2,2-Tetrachloroethane	12.63	83	369	4.513	ug/l	90
76) 1,2,3-Trichloropropane	12.62	75	5845	100.831	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	5845	221.076	ug/l #	7
83) tert-Butylbenzene	13.19	119	479	1.517	ug/l #	48
90) Hexachloroethane	14.08	117	292	4.121	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.58	75	25	1.814	ug/l #	5
95) Naphthalene	15.36	128	252	5.347	ug/l #	50

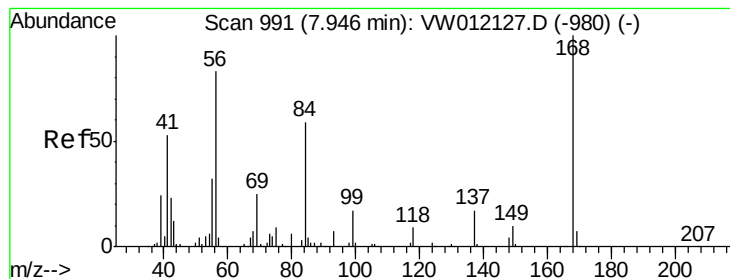
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_W\DATA\VW090519\
Data File : VW012645.D
Acq On : 05 Sep 2019 17:11
Operator : SY/VA
Sample : K4547-09RE
Misc : 3.81G/5ML/MSVOA_W/SOIL
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
T3-S-F-(2.5)RE

Quant Time: Sep 06 07:53:48 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W082319S.M
Quant Title : SW846 8260
QLast Update : Mon Aug 26 07:18:31 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW012645.D

Acq: 05 Sep 2019 17:11

Instrument :

MSVOA_W

ClientSampleId :

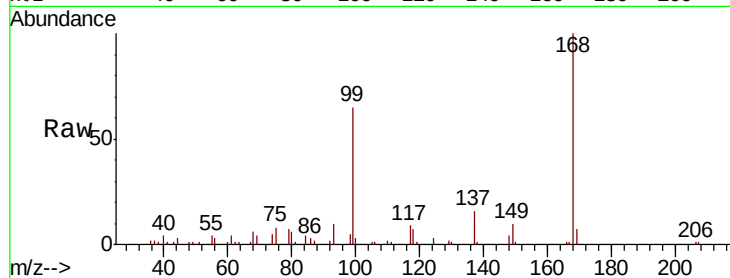
T3-S-F-(2.5)RE

Tgt Ion:168 Resp: 19682

Ion Ratio Lower Upper

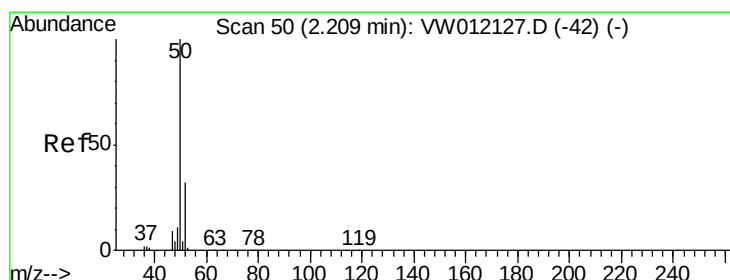
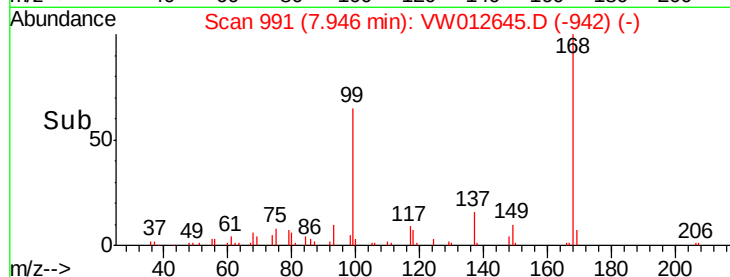
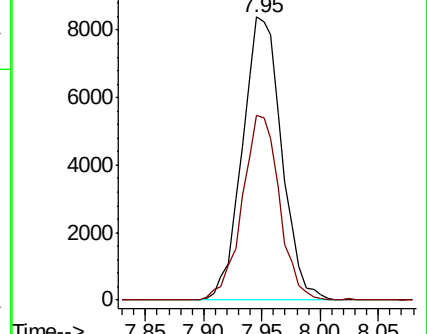
168 100

99 65.4 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW



#3

Chloromethane

Concen: 1.917 ug/l

RT: 2.22 min Scan# 52

Delta R.T. 0.01 min

Lab File: VW012645.D

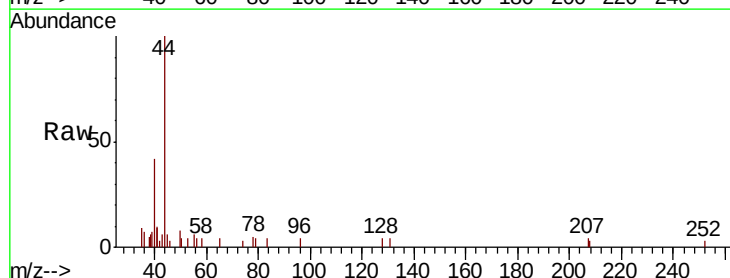
Acq: 05 Sep 2019 17:11

Tgt Ion: 50 Resp: 360

Ion Ratio Lower Upper

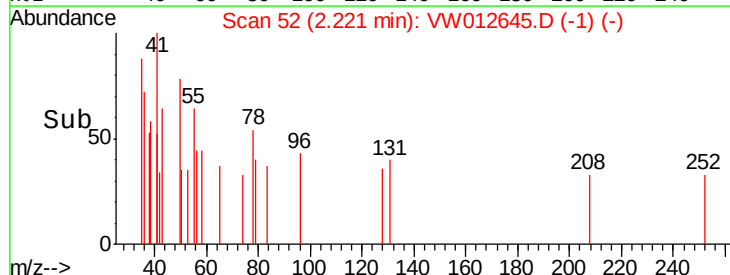
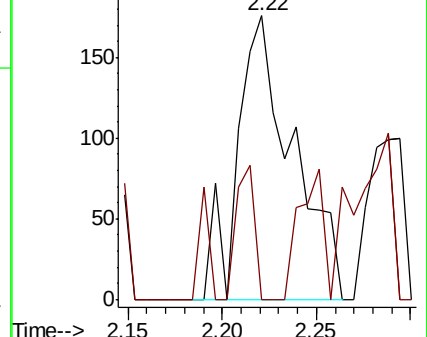
50 100

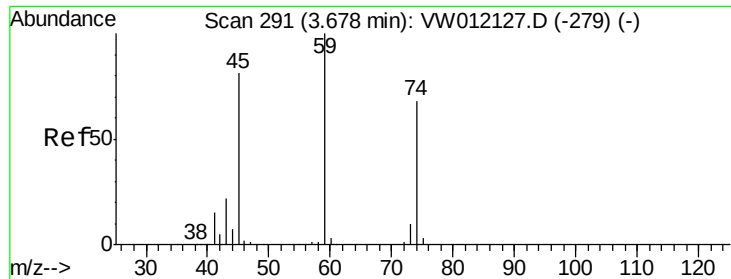
52 0.0 25.5 38.3#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW





#8

Diethyl Ether

Concen: 2.009 ug/l

RT: 3.70 min Scan# 295

Delta R.T. 0.02 min

Lab File: VW012645.D

Acq: 05 Sep 2019 17:11

Instrument :

MSVOA_W

ClientSampleId :

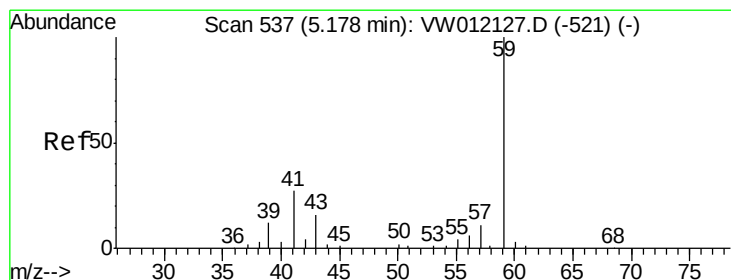
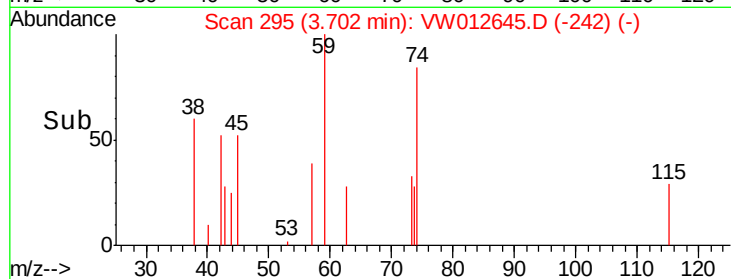
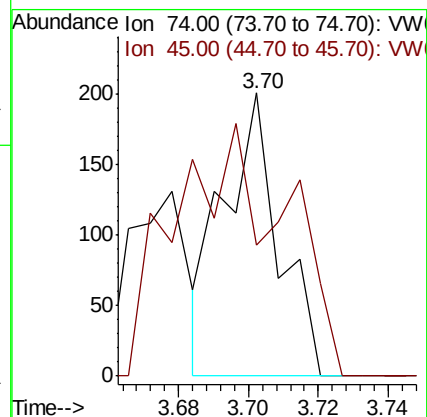
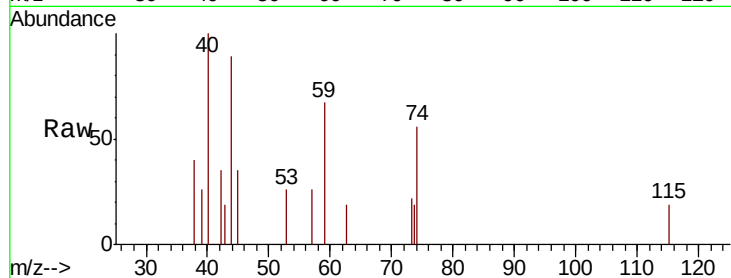
T3-S-F-(2.5)RE

Tgt Ion: 74 Resp: 220

Ion Ratio Lower Upper

74 100

45 176.8 59.2 177.6



#11

Tert butyl alcohol

Concen: 1.989 ug/l

RT: 5.19 min Scan# 539

Delta R.T. 0.01 min

Lab File: VW012645.D

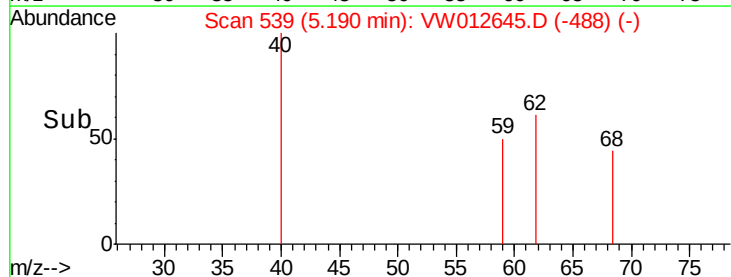
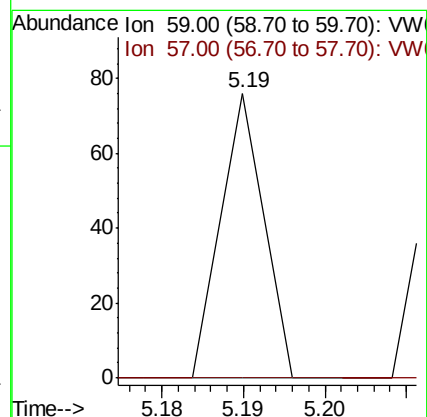
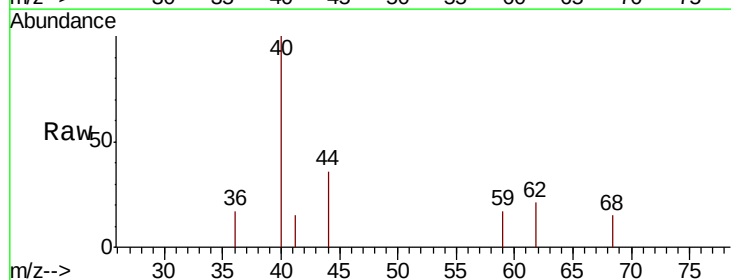
Acq: 05 Sep 2019 17:11

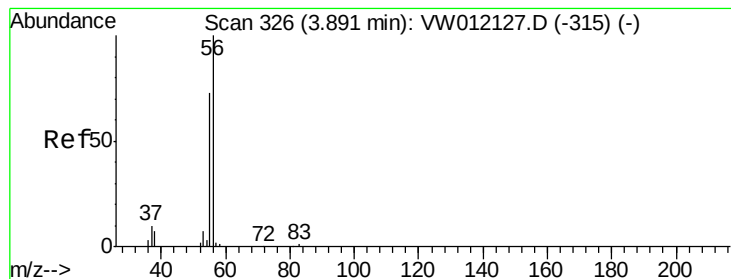
Tgt Ion: 59 Resp: 28

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.4#





#13

Acrolein

Concen: 6.338 ug/l

RT: 3.89 min Scan# 325

Delta R.T. -0.01 min

Lab File: VW012645.D

Acq: 05 Sep 2019 17:11

Instrument :

MSVOA_W

ClientSampleId :

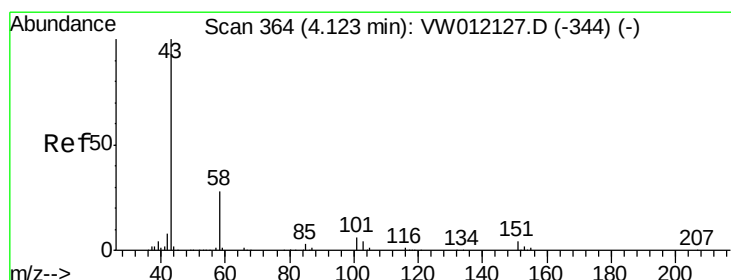
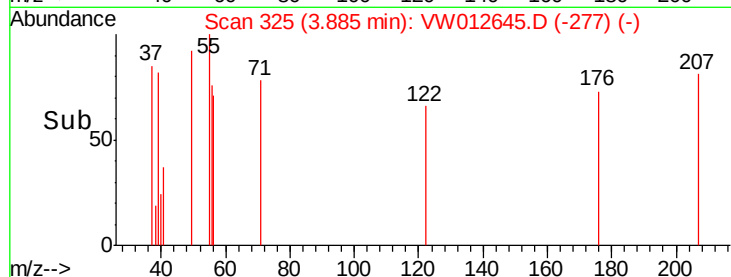
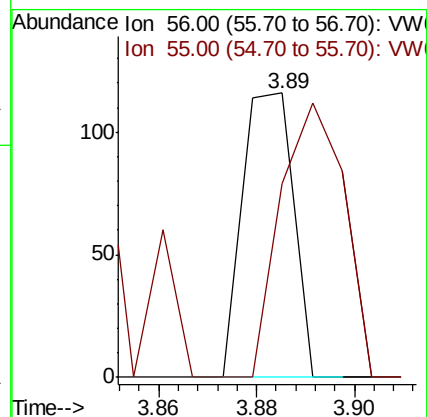
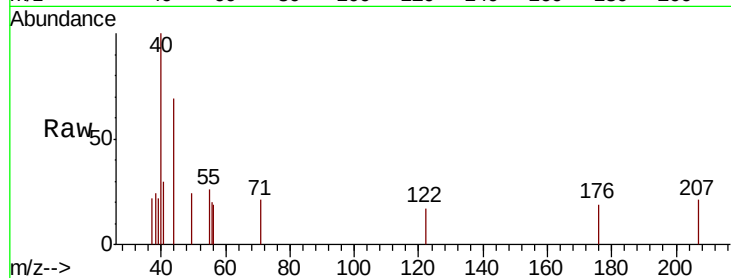
T3-S-F-(2.5)RE

Tgt Ion: 56 Resp: 84

Ion Ratio Lower Upper

56 100

55 120.2 55.8 83.8#



#16

Acetone

Concen: 111.156 ug/l

RT: 4.12 min Scan# 363

Delta R.T. -0.01 min

Lab File: VW012645.D

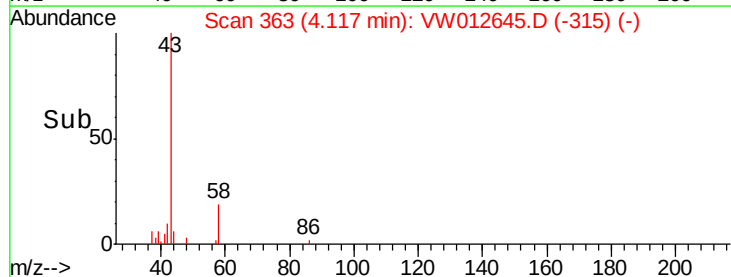
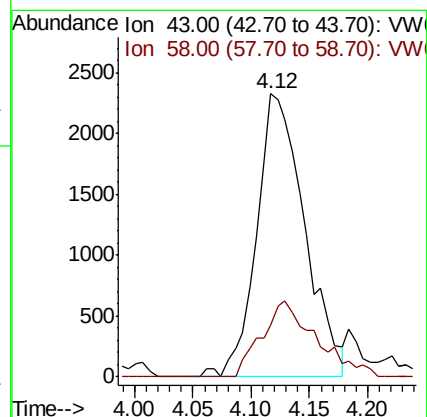
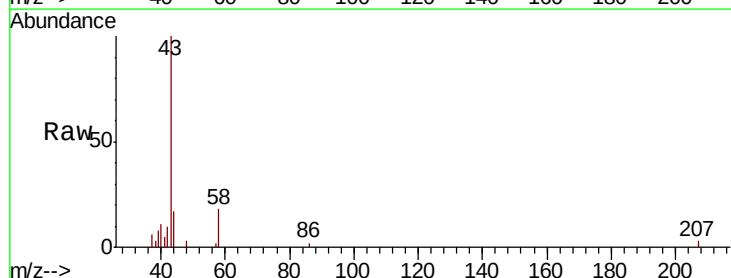
Acq: 05 Sep 2019 17:11

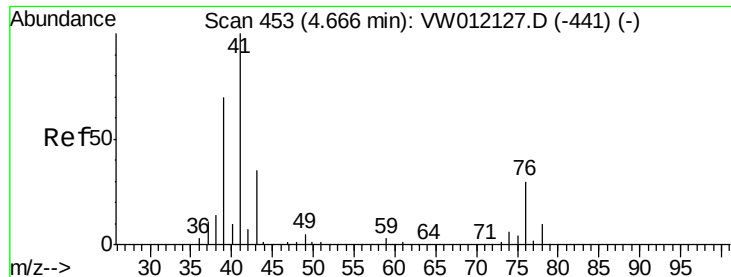
Tgt Ion: 43 Resp: 6648

Ion Ratio Lower Upper

43 100

58 18.4 22.4 33.6#

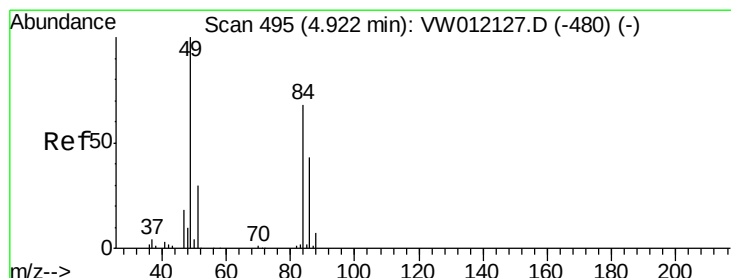
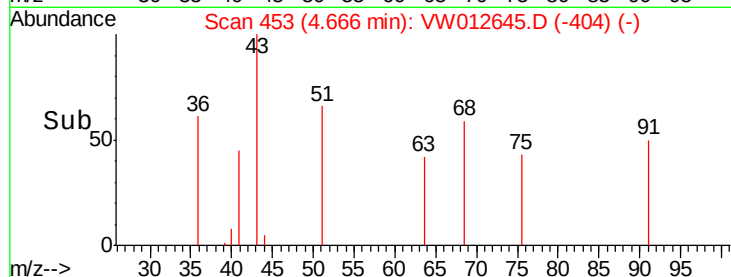
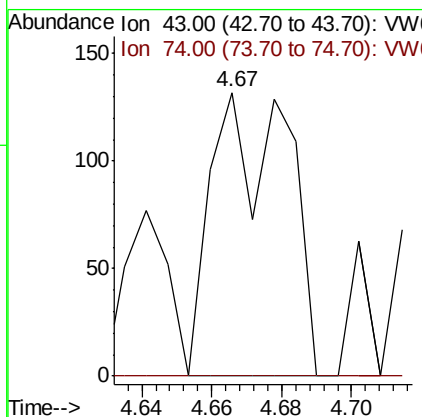
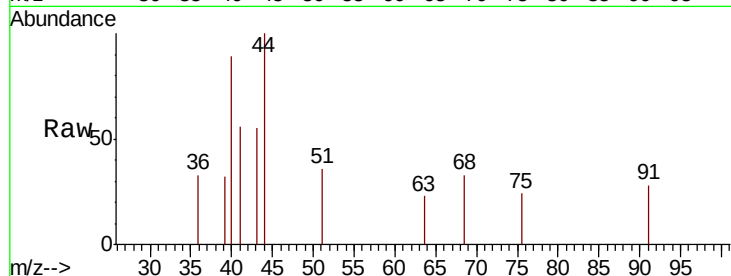




#18
Methyl Acetate
Concen: 1.330 ug/l
RT: 4.67 min Scan# 453
Delta R.T. -0.00 min
Lab File: VW012645.D
Acq: 05 Sep 2019 17:11

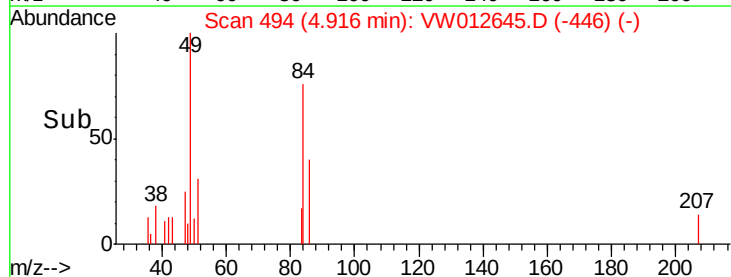
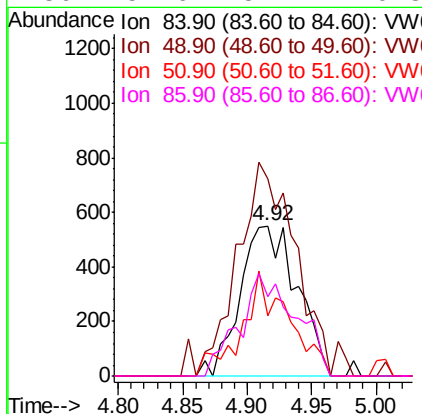
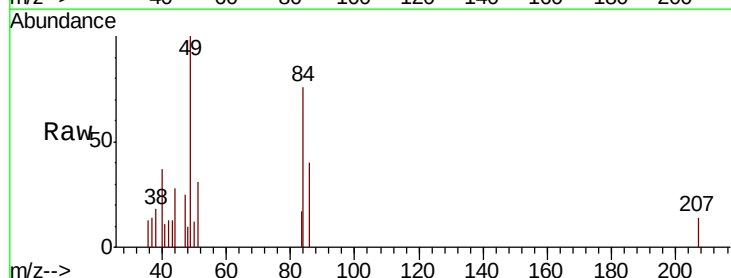
Instrument :
MSVOA_W
ClientSampleId :
T3-S-F-(2.5)RE

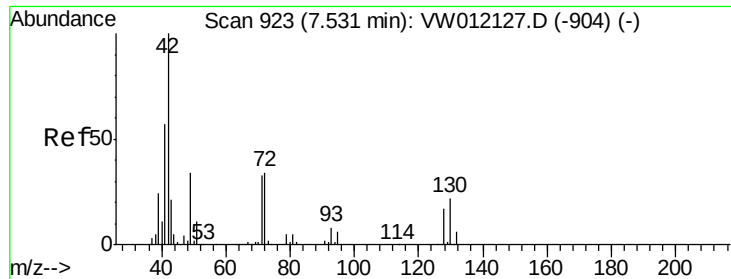
Tgt Ion: 43 Resp: 197
Ion Ratio Lower Upper
43 100
74 0.0 15.7 23.5#



#20
Methylene Chloride
Concen: 7.510 ug/l
RT: 4.92 min Scan# 494
Delta R.T. -0.01 min
Lab File: VW012645.D
Acq: 05 Sep 2019 17:11

Tgt Ion: 84 Resp: 1698
Ion Ratio Lower Upper
84 100
49 108.2 117.8 176.8#
51 40.3 35.6 53.4
86 52.6 51.2 76.8

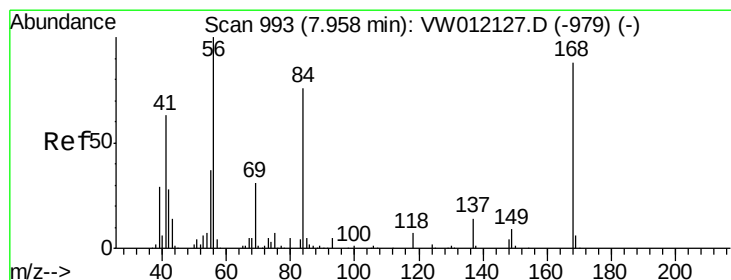
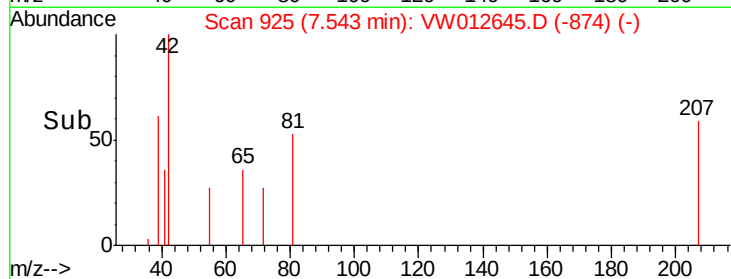
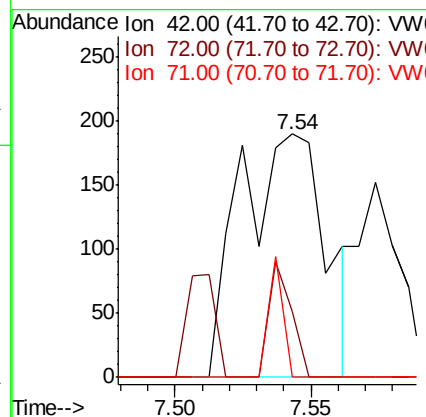
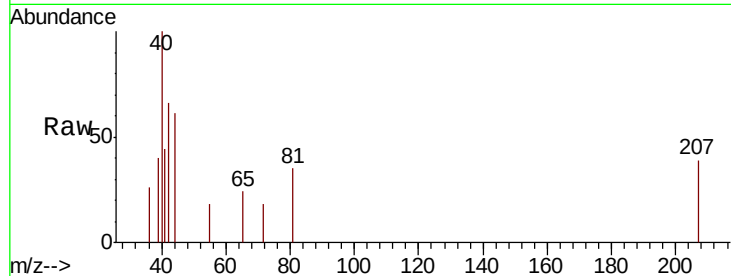




#29
Tetrahydrofuran
Concen: 8.470 ug/l
RT: 7.54 min Scan# 925
Delta R.T. 0.01 min
Lab File: VW012645.D
Acq: 05 Sep 2019 17:11

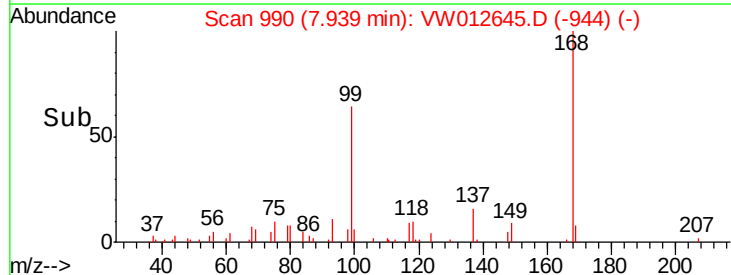
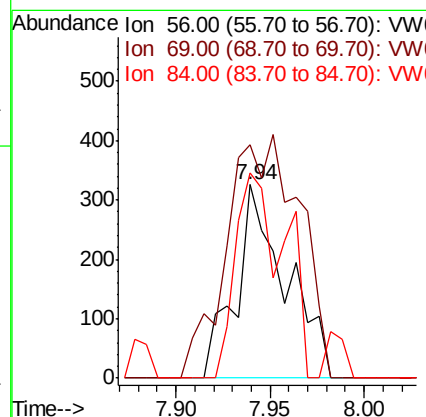
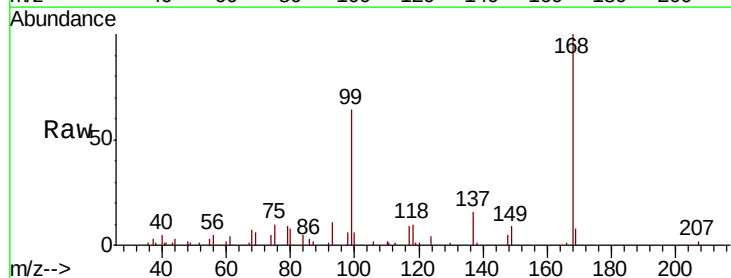
Instrument :
MSVOA_W
ClientSampleId :
T3-S-F-(2.5)RE

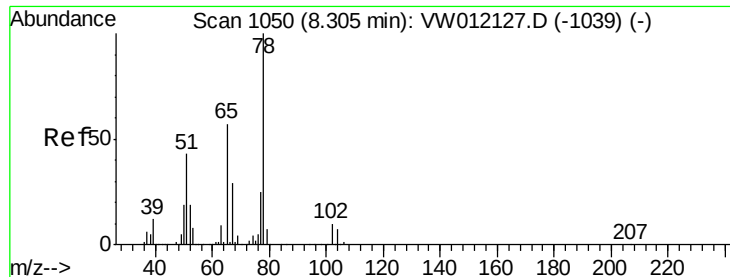
Tgt Ion: 42 Resp: 413
Ion Ratio Lower Upper
42 100
72 12.6 27.3 40.9#
71 8.2 25.5 38.3#



#31
Cyclohexane
Concen: 1.421 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.02 min
Lab File: VW012645.D
Acq: 05 Sep 2019 17:11

Tgt Ion: 56 Resp: 599
Ion Ratio Lower Upper
56 100
69 120.9 24.9 37.3#
84 106.1 60.6 90.8#

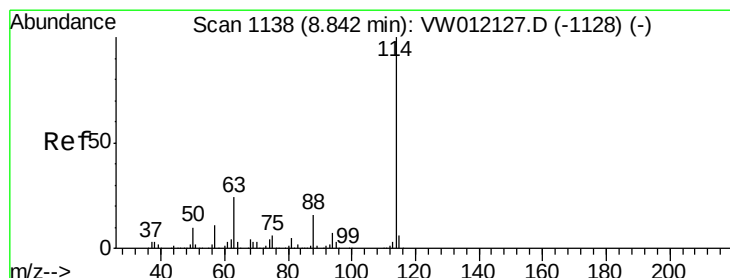
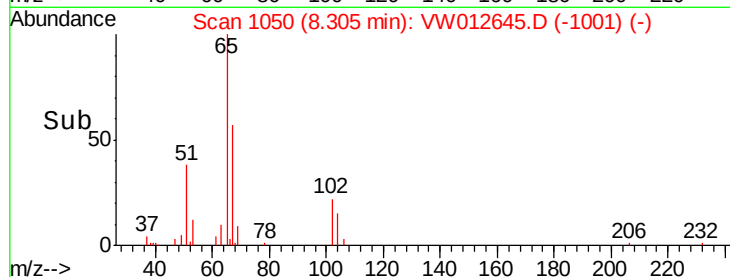
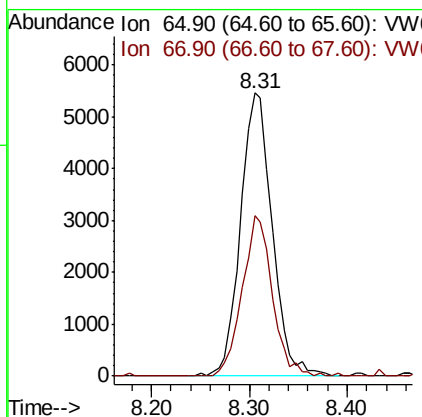
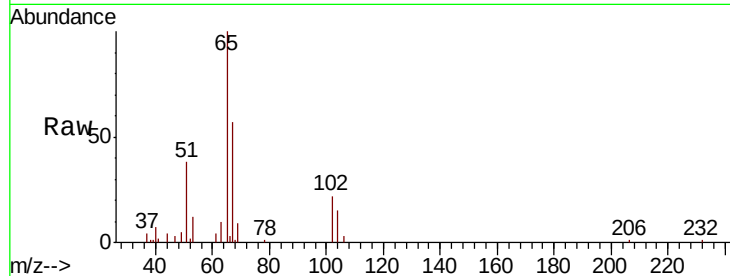




#33
 1,2-Dichloroethane-d4
 Concen: 52.438 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW012645.D
 Acq: 05 Sep 2019 17:11

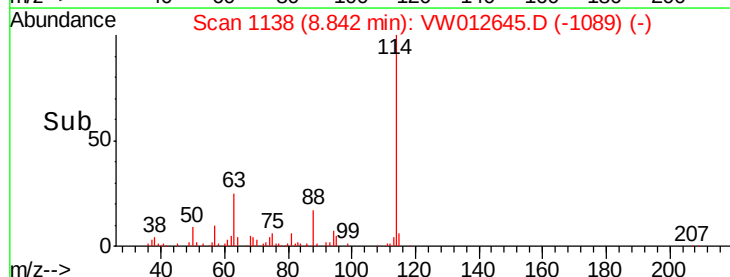
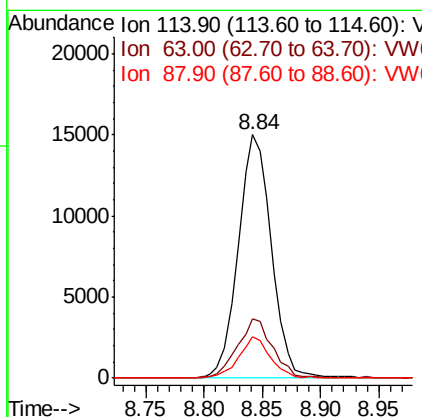
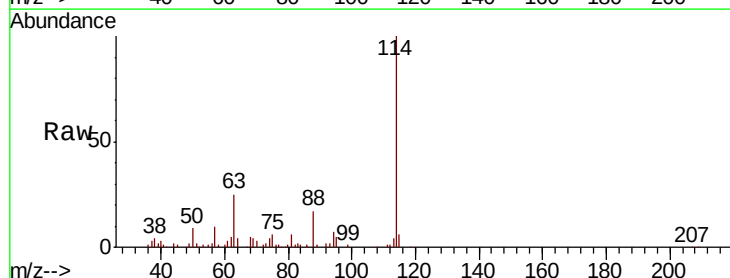
Instrument :
 MSVOA_W
 ClientSampleId :
 T3-S-F-(2.5)RE

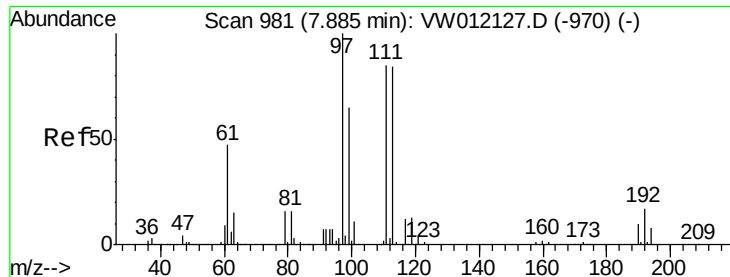
Tgt Ion: 65 Resp: 12269
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW012645.D
 Acq: 05 Sep 2019 17:11

Tgt Ion: 114 Resp: 29806
 Ion Ratio Lower Upper
 114 100
 63 24.6 0.0 48.6
 88 17.2 0.0 32.2

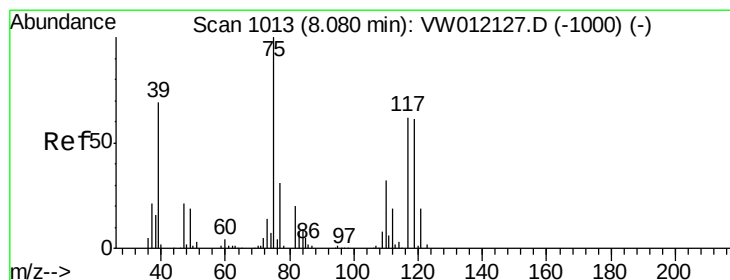
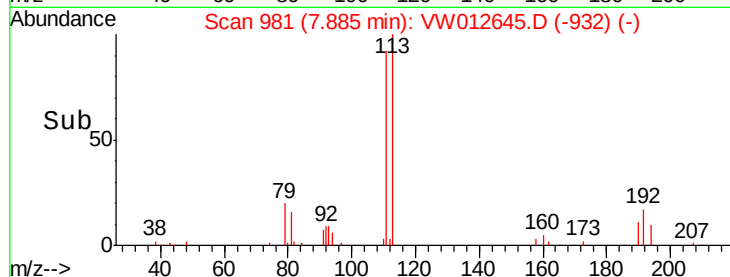
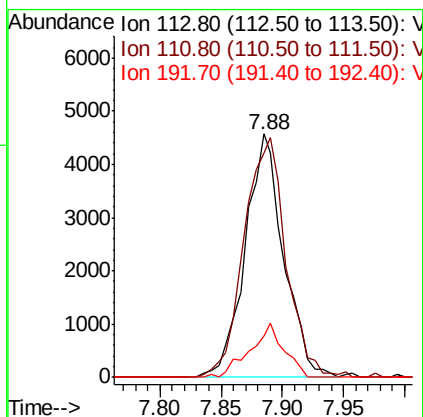
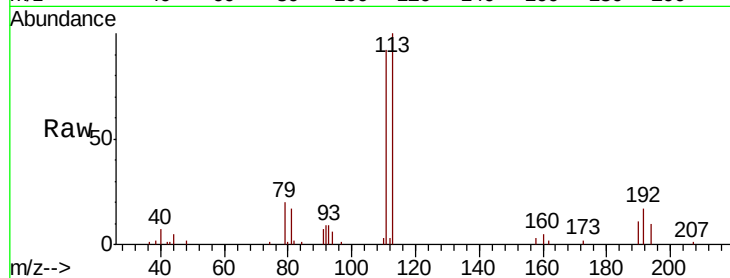




#35
 Dibromofluoromethane
 Concen: 56.337 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW012645.D
 Acq: 05 Sep 2019 17:11

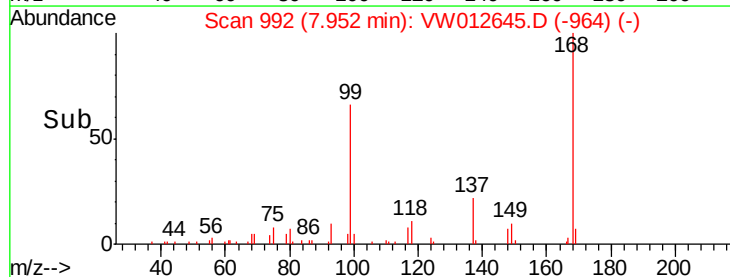
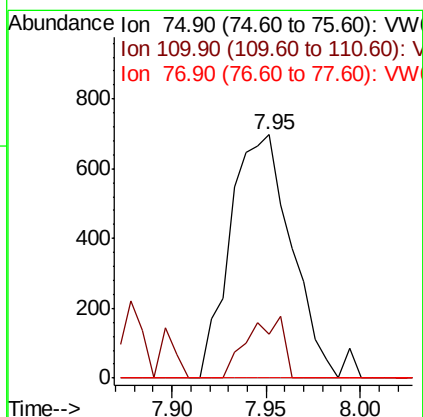
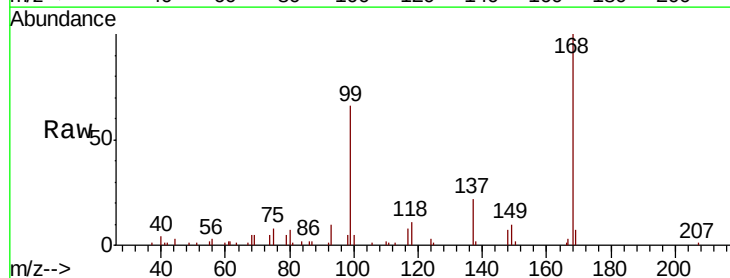
Instrument :
 MSVOA_W
 ClientSampleId :
 T3-S-F-(2.5)RE

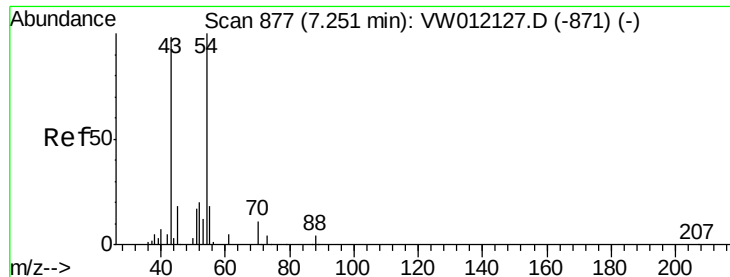
Tgt Ion:113 Resp: 10023
 Ion Ratio Lower Upper
 113 100
 111 107.4 82.7 124.1
 192 19.5 16.2 24.2



#36
 1,1-Dichloropropene
 Concen: 5.075 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.13 min
 Lab File: VW012645.D
 Acq: 05 Sep 2019 17:11

Tgt Ion: 75 Resp: 1563
 Ion Ratio Lower Upper
 75 100
 110 14.9 15.6 46.8#
 77 0.0 24.6 36.8#





#37

Ethyl Acetate

Concen: 1.315 ug/l

RT: 7.20 min Scan# 869

Delta R.T. -0.05 min

Lab File: VW012645.D

Acq: 05 Sep 2019 17:11

Instrument :

MSVOA_W

ClientSampled :

T3-S-F-(2.5)RE

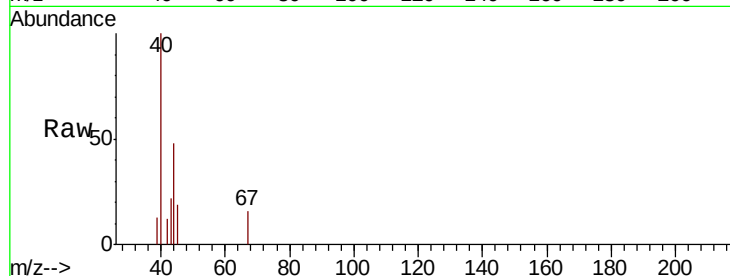
Tgt Ion: 43 Resp: 222

Ion Ratio Lower Upper

43 100

61 0.0 9.2 13.8#

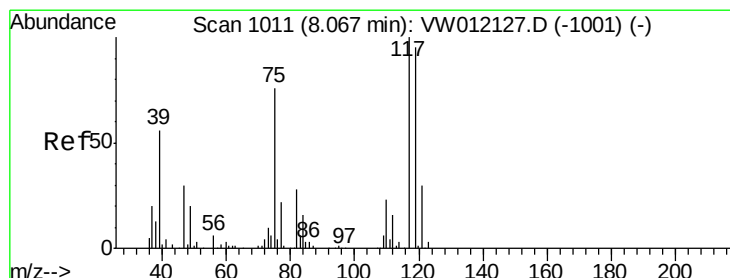
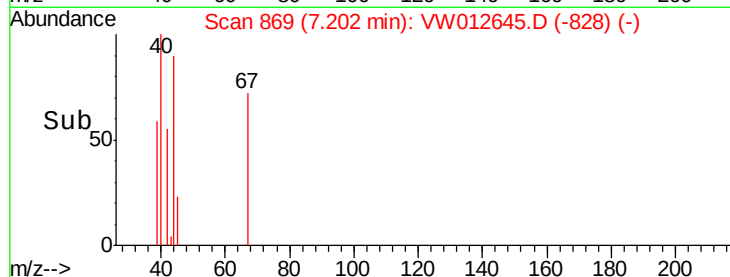
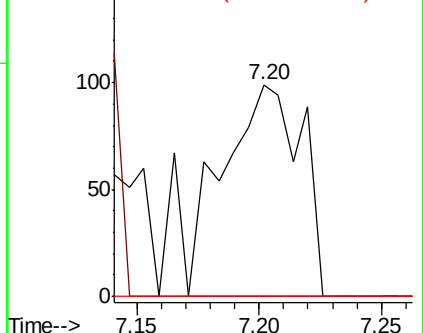
70 0.0 6.9 10.3#



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: 7.015 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW012645.D

Acq: 05 Sep 2019 17:11

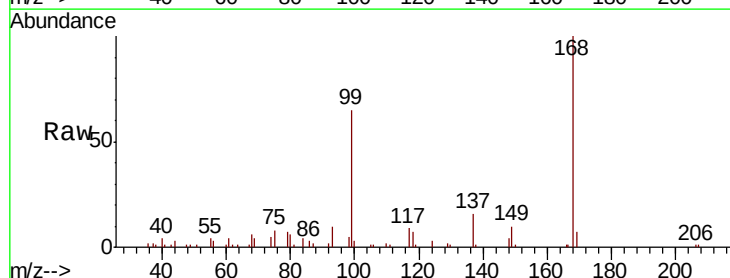
Tgt Ion: 117 Resp: 1870

Ion Ratio Lower Upper

117 100

119 7.4 76.2 114.2#

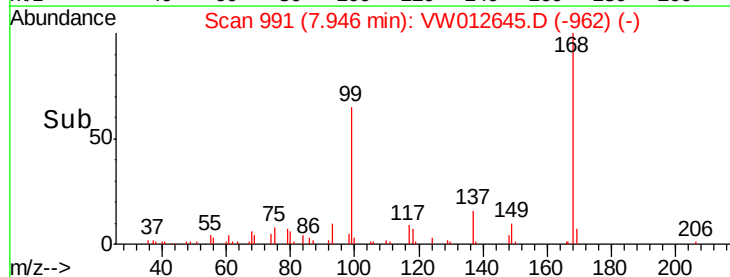
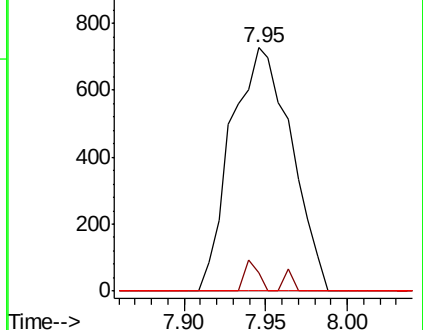
121 0.0 23.8 35.8#

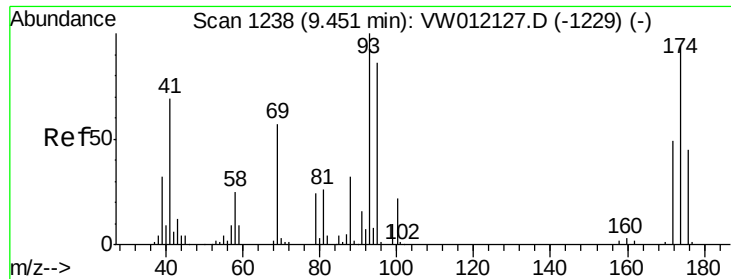


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

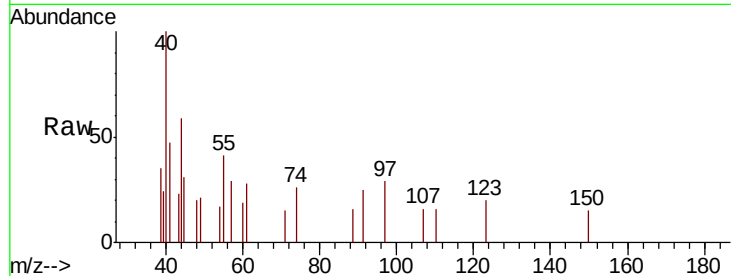




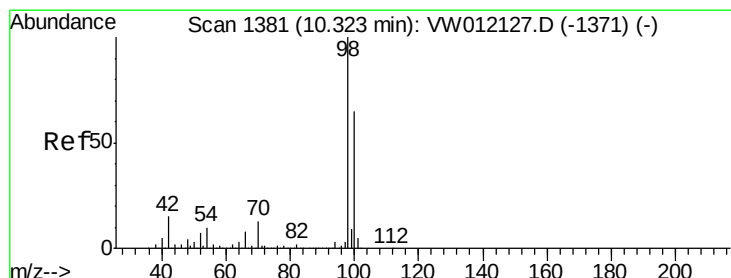
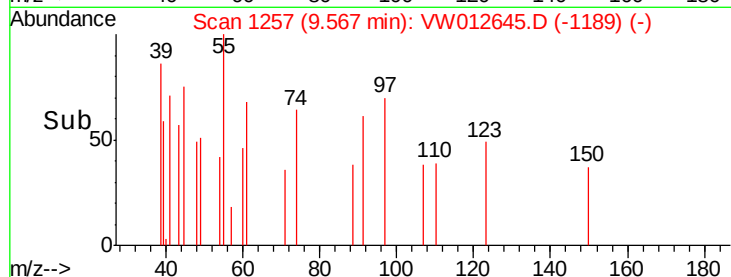
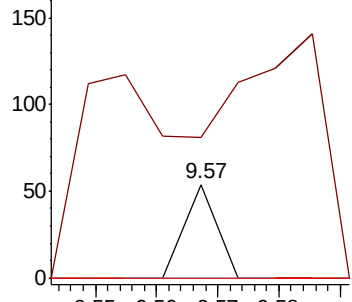
#49
 1,4-Dioxane
 Concen: 12.972 ug/l
 RT: 9.57 min Scan# 1257
 Delta R.T. 0.12 min
 Lab File: VW012645.D
 Acq: 05 Sep 2019 17:11

Instrument :
 MSVOA_W
 ClientSampleId :
 T3-S-F-(2.5)RE

Tgt Ion: 88 Resp: 20
 Ion Ratio Lower Upper
 88 100
 43 715.0 32.9 49.3#
 58 0.0 71.0 106.4#

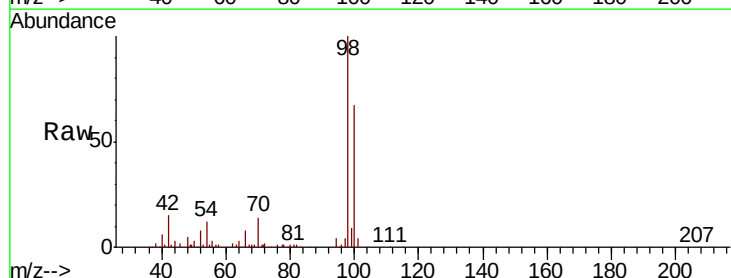


Abundance Ion 88.00 (87.70 to 88.70): VW
 Ion 43.00 (42.70 to 43.70): VW
 Ion 58.00 (57.70 to 58.70): VW

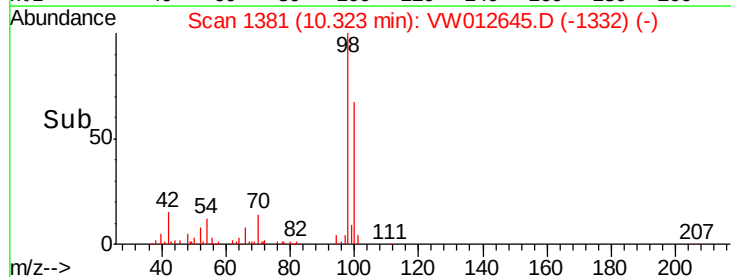
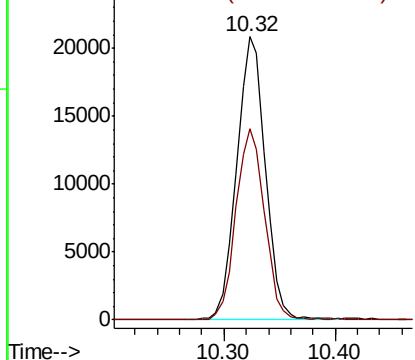


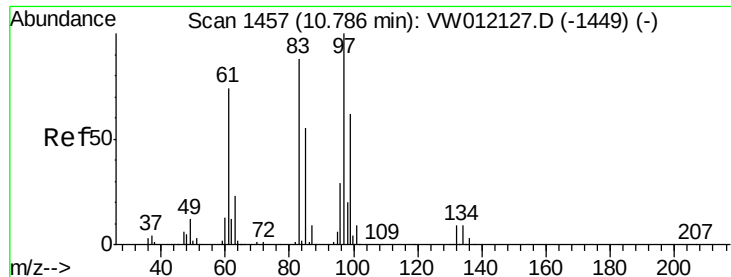
#50
 Toluene-d8
 Concen: 51.543 ug/l
 RT: 10.32 min Scan# 1381
 Delta R.T. -0.00 min
 Lab File: VW012645.D
 Acq: 05 Sep 2019 17:11

Tgt Ion: 98 Resp: 37182
 Ion Ratio Lower Upper
 98 100
 100 67.1 52.4 78.6



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

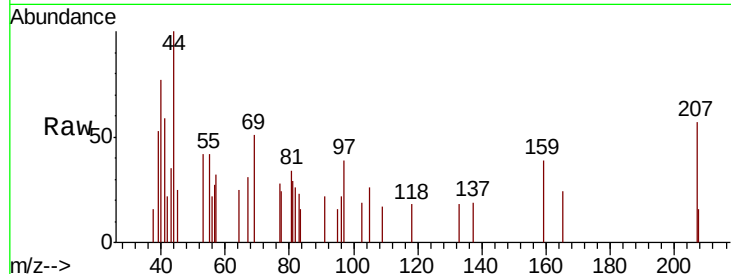




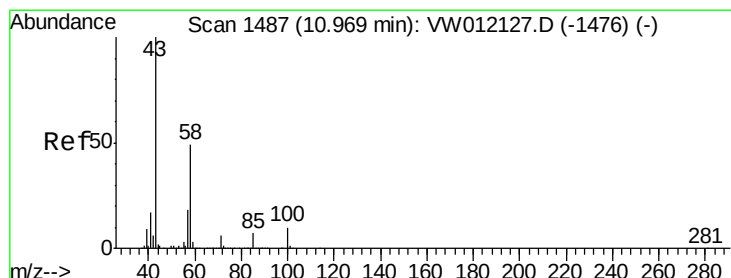
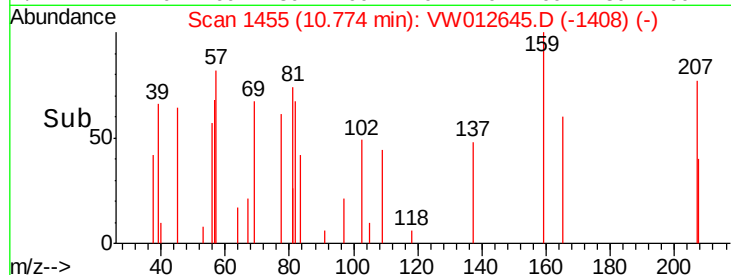
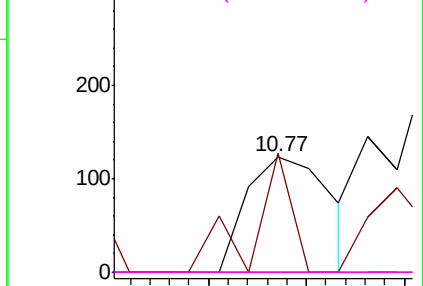
#55
 1,1,2-Trichloroethane
 Concen: 1.032 ug/l
 RT: 10.77 min Scan# 1455
 Delta R.T. -0.01 min
 Lab File: VW012645.D
 Acq: 05 Sep 2019 17:11

Instrument :
 MSVOA_W
 ClientSampleId :
 T3-S-F-(2.5)RE

Tgt Ion: 97 Resp: 147
 Ion Ratio Lower Upper
 97 100
 83 103.2 70.8 106.2
 85 0.0 43.8 65.8#
 99 0.0 49.8 74.6#

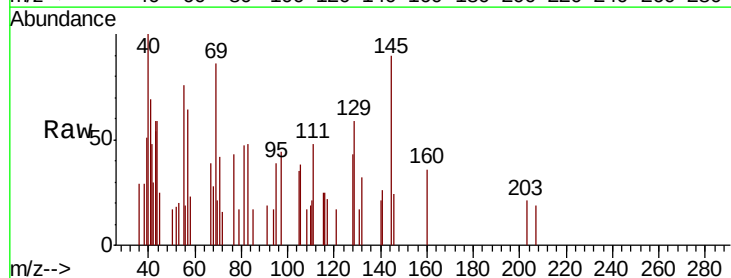


Abundance Ion 96.90 (96.60 to 97.60): VW
 Ion 82.90 (82.60 to 83.60): VW
 Ion 84.90 (84.60 to 85.60): VW
 Ion 98.90 (98.60 to 99.60): VW

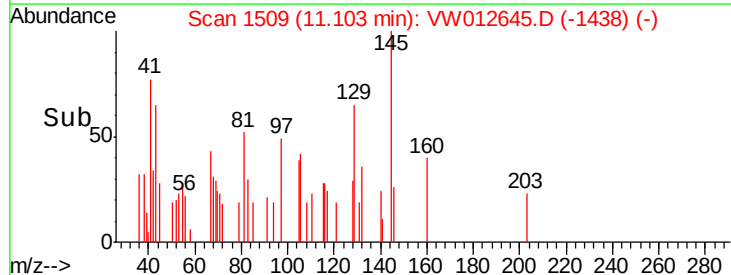
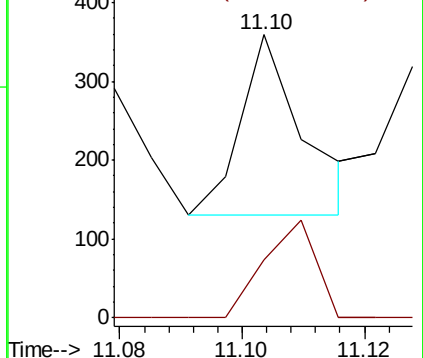


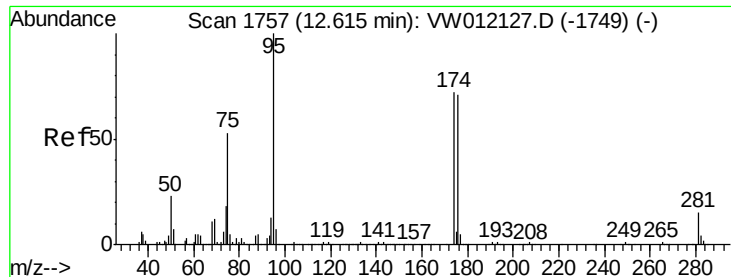
#59
 2-Hexanone
 Concen: 1.440 ug/l
 RT: 11.10 min Scan# 1509
 Delta R.T. 0.13 min
 Lab File: VW012645.D
 Acq: 05 Sep 2019 17:11

Tgt Ion: 43 Resp: 162
 Ion Ratio Lower Upper
 43 100
 58 44.4 24.3 72.9



Abundance Ion 43.00 (42.70 to 43.70): VW
 Ion 58.00 (57.70 to 58.70): VW





#62

4-Bromofluorobenzene

Concen: 41.221 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012645.D

Acq: 05 Sep 2019 17:11

Instrument :

MSVOA_W

ClientSampleId :

T3-S-F(2.5)RE

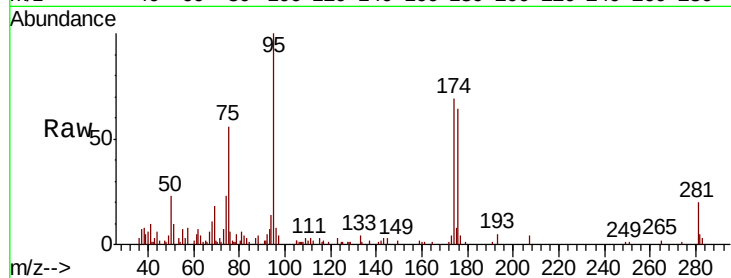
Tgt Ion: 95 Resp: 10482

Ion Ratio Lower Upper

95 100

174 74.6 0.0 150.8

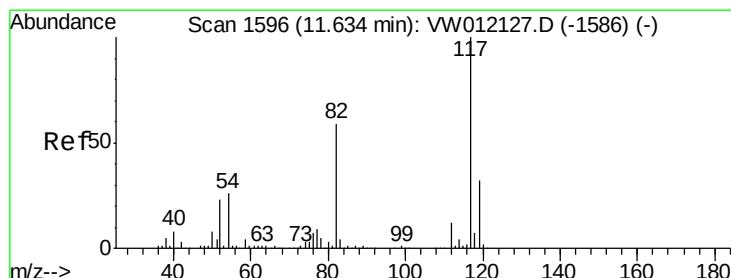
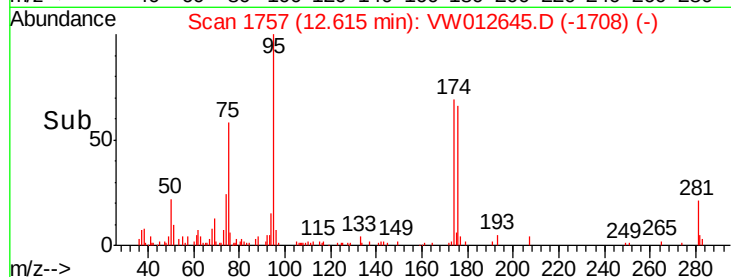
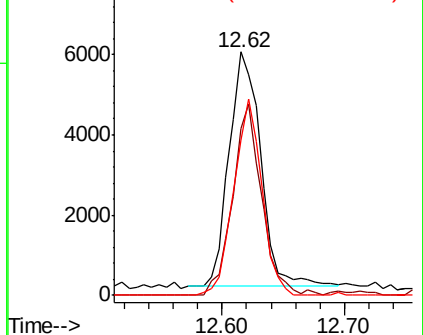
176 73.7 0.0 148.6



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: VW012645.D

Acq: 05 Sep 2019 17:11

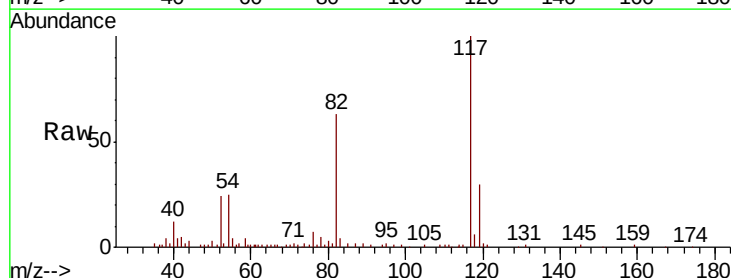
Tgt Ion: 117 Resp: 26260

Ion Ratio Lower Upper

117 100

82 62.3 47.4 71.2

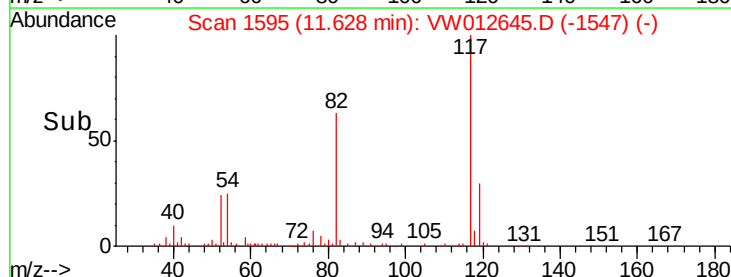
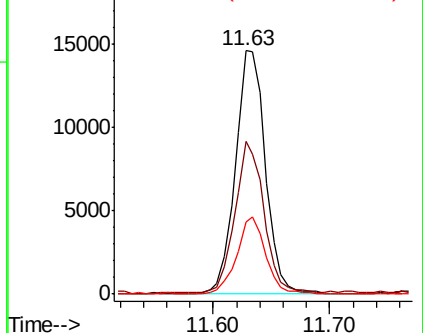
119 29.8 25.4 38.2

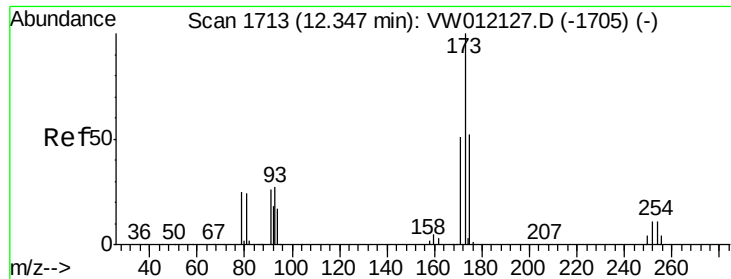


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW





#71

Bromoform

Concen: 1.513 ug/l

RT: 12.35 min Scan# 1714

Delta R.T. 0.01 min

Lab File: VW012645.D

Acq: 05 Sep 2019 17:11

Instrument :

MSVOA_W

ClientSampled :

T3-S-F-(2.5)RE

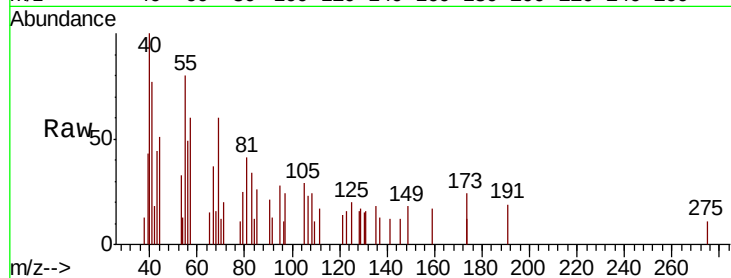
Tgt Ion:173 Resp: 136

Ion Ratio Lower Upper

173 100

175 0.0 24.6 74.0#

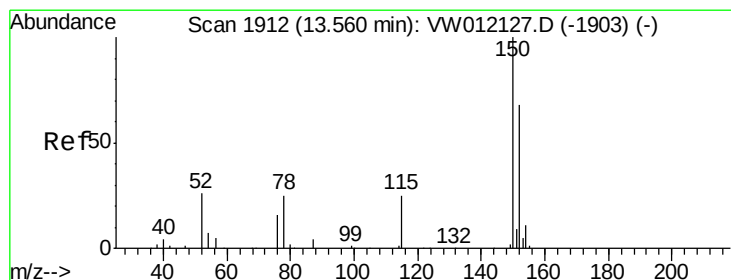
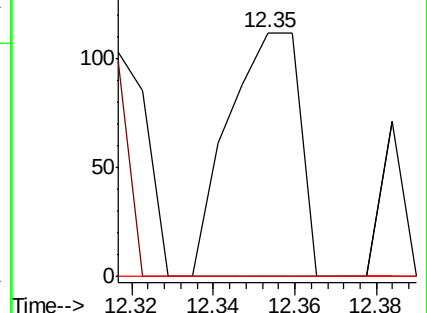
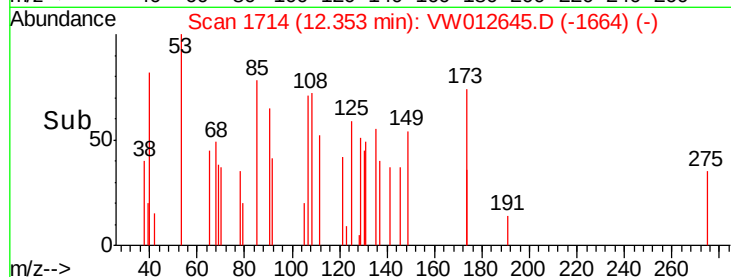
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW012645.D

Acq: 05 Sep 2019 17:11

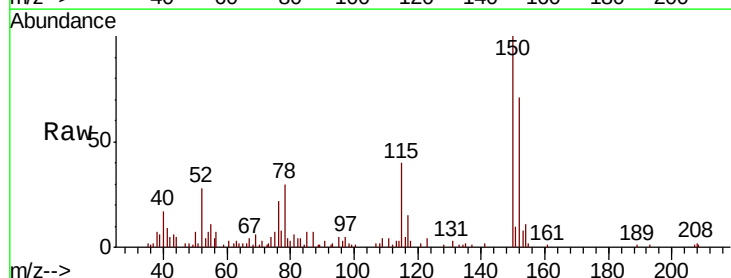
Tgt Ion:152 Resp: 5952

Ion Ratio Lower Upper

152 100

115 69.0 30.1 90.3

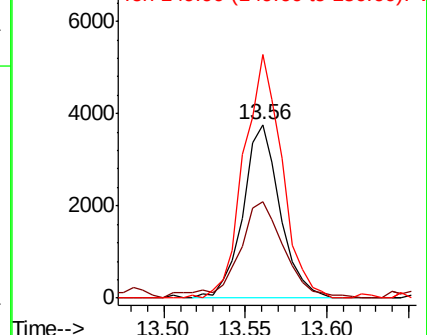
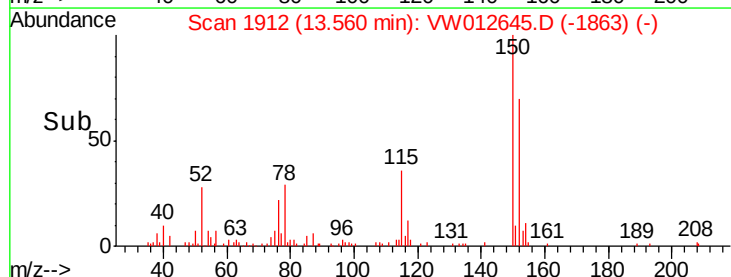
150 144.5 0.0 345.8

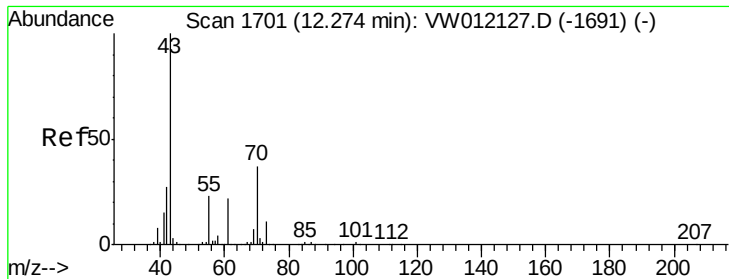


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyI acetate

Concen: 1.225 ug/l

RT: 12.26 min Scan# 1699

Delta R.T. -0.01 min

Lab File: VW012645.D

Acq: 05 Sep 2019 17:11

Instrument :

MSVOA_W

ClientSampleId :

T3-S-F-(2.5)RE

Tgt Ion: 43 Resp: 165

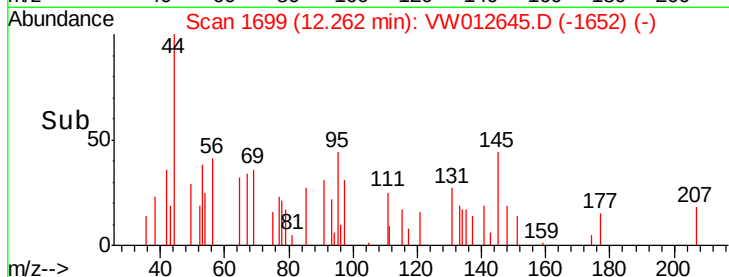
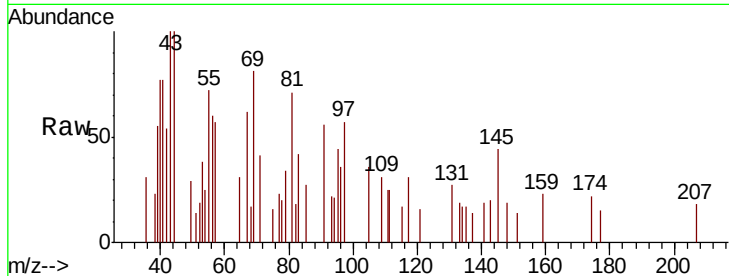
Ion Ratio Lower Upper

43 100

70 0.0 28.6 43.0#

55 0.0 17.8 26.6#

61 0.0 17.3 25.9#

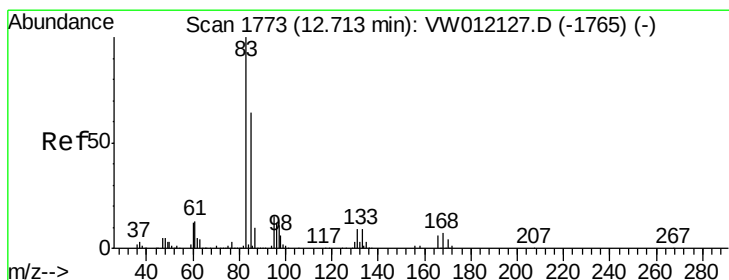
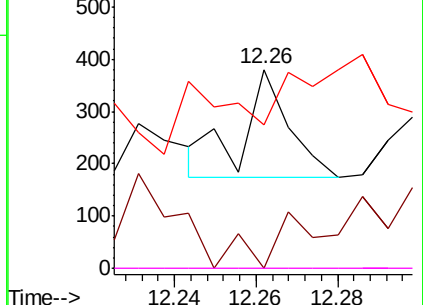


Abundance Ion 43.00 (42.70 to 43.70): VW

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: 4.513 ug/l

RT: 12.63 min Scan# 1760

Delta R.T. -0.08 min

Lab File: VW012645.D

Acq: 05 Sep 2019 17:11

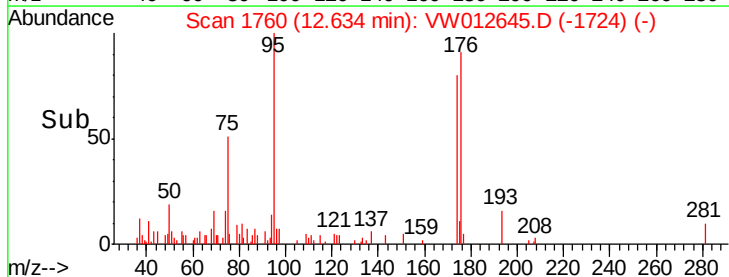
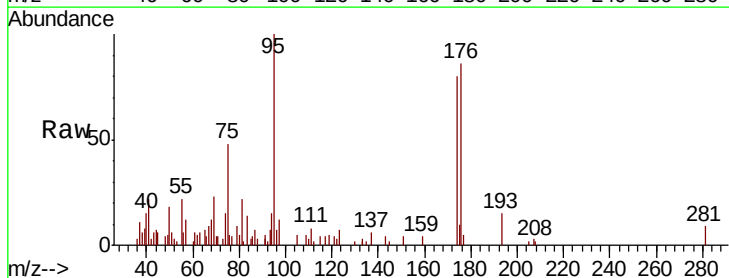
Tgt Ion: 83 Resp: 369

Ion Ratio Lower Upper

83 100

131 5.4 4.9 14.7

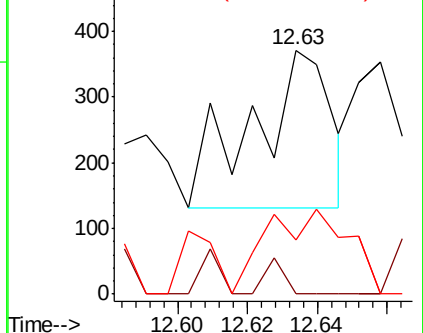
85 56.6 31.9 95.7

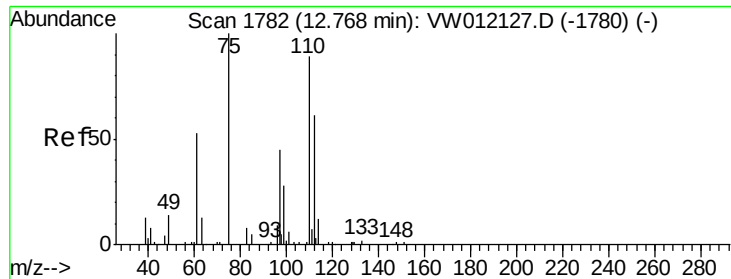


Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW





#76

1,2,3-Trichloropropane

Concen: 100.831 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012645.D

Acq: 05 Sep 2019 17:11

Instrument :

MSVOA_W

ClientSampleId :

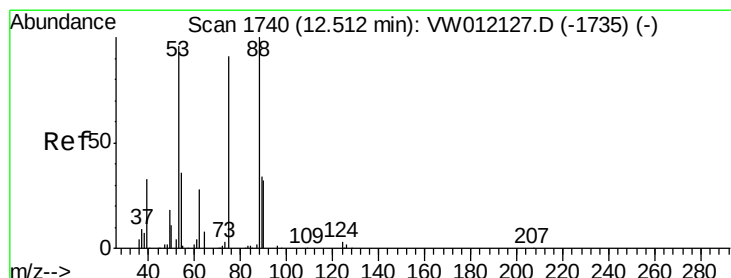
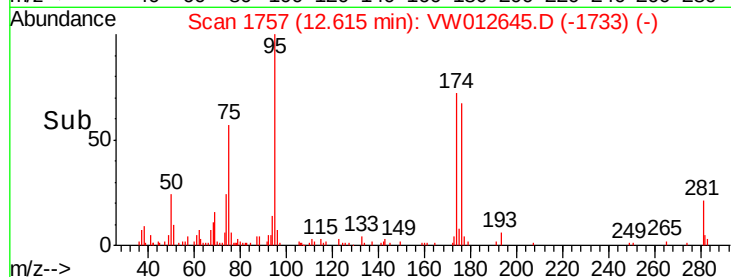
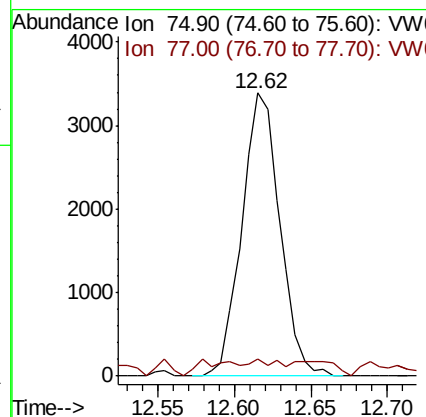
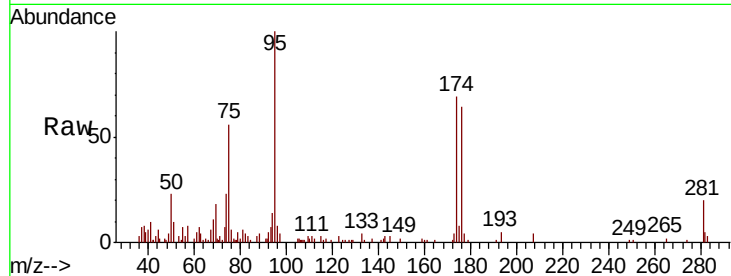
T3-S-F-(2.5)RE

Tgt Ion: 75 Resp: 5845

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 221.076 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012645.D

Acq: 05 Sep 2019 17:11

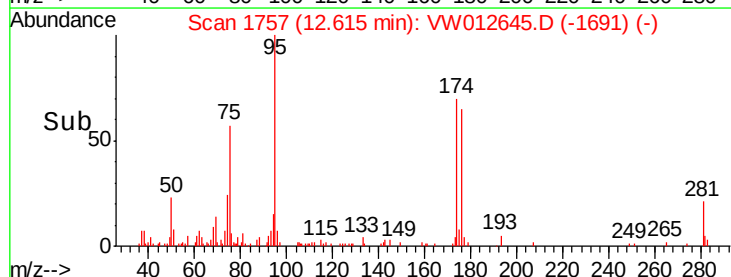
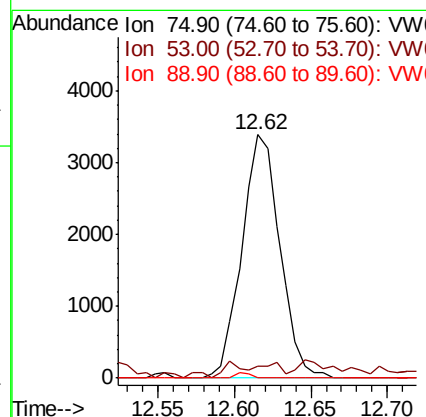
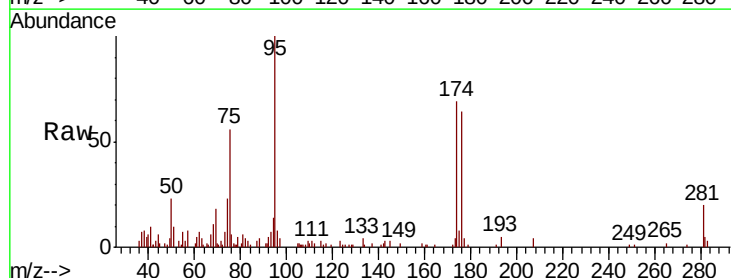
Tgt Ion: 75 Resp: 5845

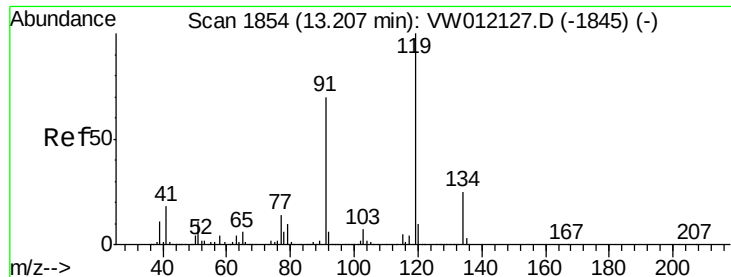
Ion Ratio Lower Upper

75 100

53 2.2 89.4 134.0#

89 0.0 34.5 51.7#

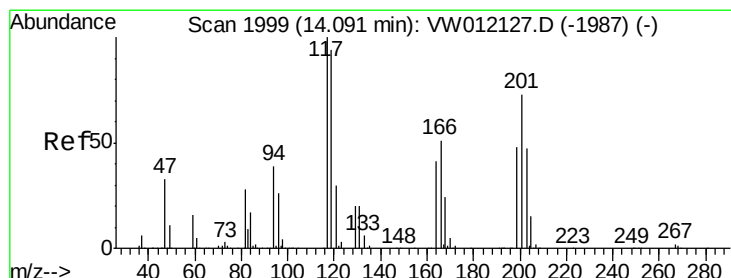
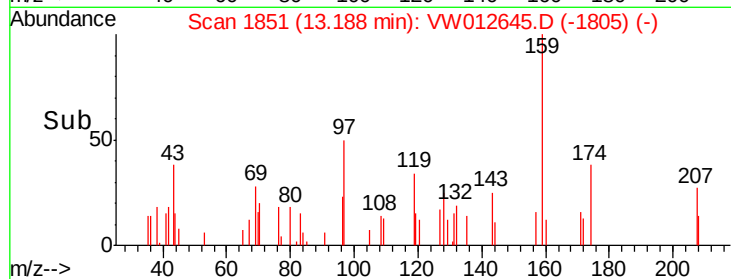
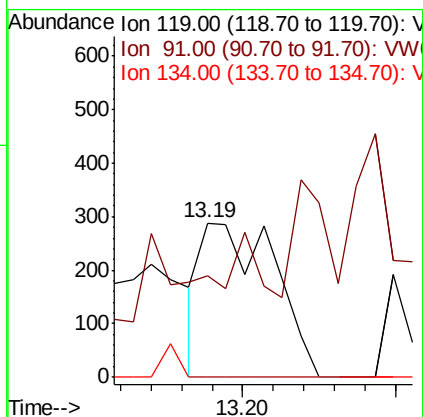
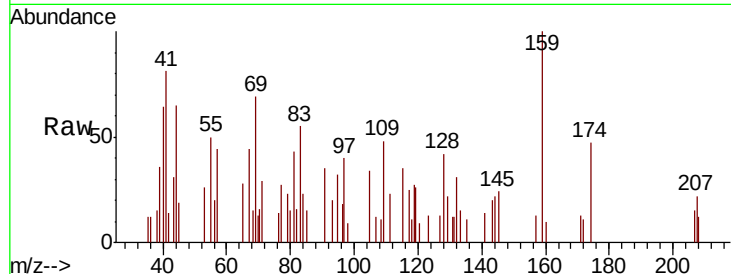




#83
tert-Butylbenzene
Concen: 1.517 ug/l
RT: 13.19 min Scan# 1851
Delta R.T. -0.02 min
Lab File: VW012645.D
Acq: 05 Sep 2019 17:11

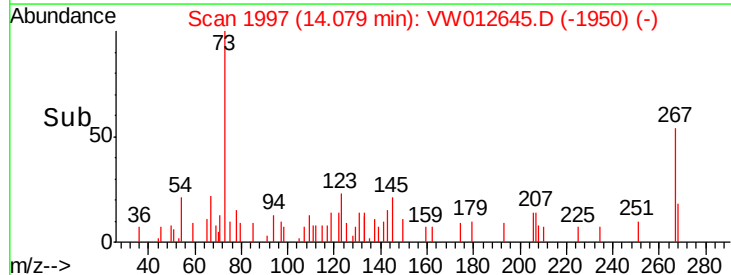
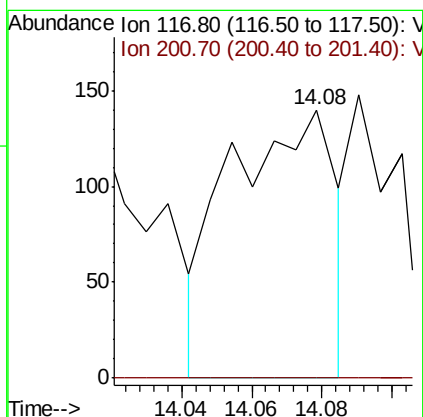
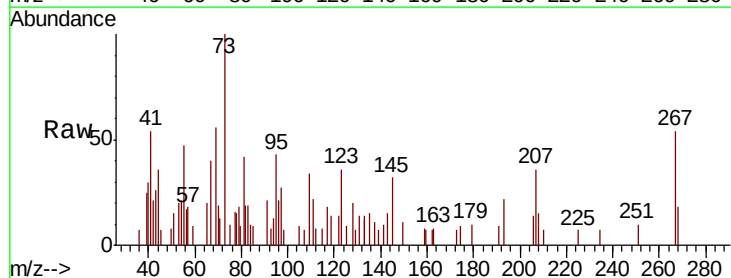
Instrument :
MSVOA_W
ClientSampleId :
T3-S-F(2.5)RE

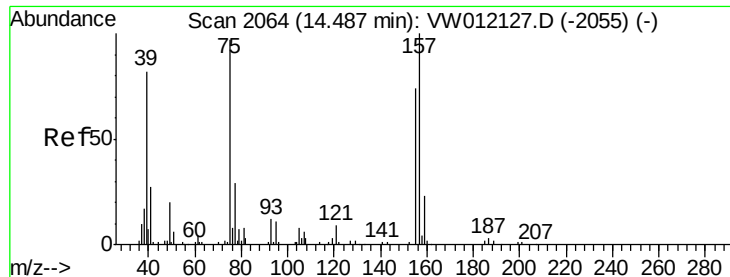
Tgt Ion:119 Resp: 479
Ion Ratio Lower Upper
119 100
91 23.6 34.8 104.3#
134 4.8 13.3 39.8#



#90
Hexachloroethane
Concen: 4.121 ug/l
RT: 14.08 min Scan# 1997
Delta R.T. -0.01 min
Lab File: VW012645.D
Acq: 05 Sep 2019 17:11

Tgt Ion:117 Resp: 292
Ion Ratio Lower Upper
117 100
201 0.0 38.6 115.7#

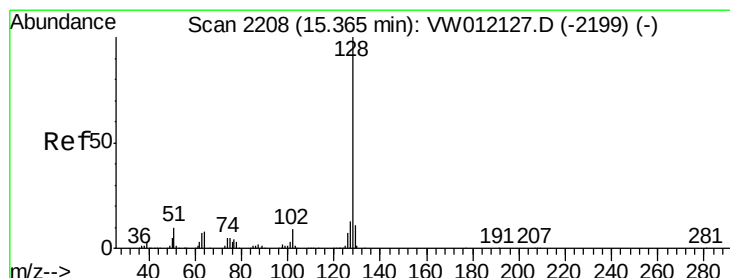
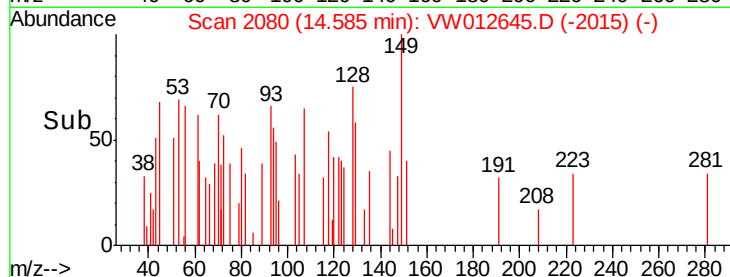
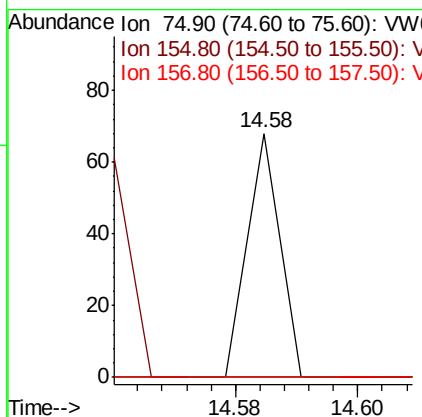
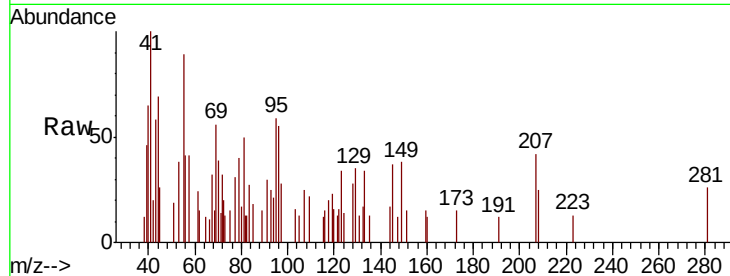




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.814 ug/l
 RT: 14.58 min Scan# 2080
 Delta R.T. 0.10 min
 Lab File: VW012645.D
 Acq: 05 Sep 2019 17:11

Instrument :
 MSVOA_W
 ClientSampled :
 T3-S-F-(2.5)RE

Tgt Ion: 75 Resp: 25
 Ion Ratio Lower Upper
 75 100
 155 0.0 37.5 112.3#
 157 0.0 50.5 151.5#



#95
 Naphthalene
 Concen: 5.347 ug/l
 RT: 15.36 min Scan# 2208
 Delta R.T. 0.00 min
 Lab File: VW012645.D
 Acq: 05 Sep 2019 17:11

Tgt Ion: 128 Resp: 252
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.7 16.1#
 129 37.7 8.7 13.1#

