

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW120618\
 Data File : VW007286.D
 Acq On : 06 Dec 2018 18:43
 Operator : SY/AP
 Sample : J6248-05RE
 Misc : 5.66G/5ML/MSVOA W/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Dec 07 01:16:06 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W120418S.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 05 01:35:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	87918	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	136187	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	124445	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	64367	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	35097	42.88	ug/l	0.00
Spiked Amount			Recovery	=	85.76%	
35) Dibromofluoromethane	7.89	113	30795	39.49	ug/l	0.00
Spiked Amount			Recovery	=	78.98%	
50) Toluene-d8	10.33	98	126775	36.91	ug/l	0.00
Spiked Amount			Recovery	=	73.82%	
62) 4-Bromofluorobenzene	12.62	95	50887	39.25	ug/l	0.00
Spiked Amount			Recovery	=	78.50%	

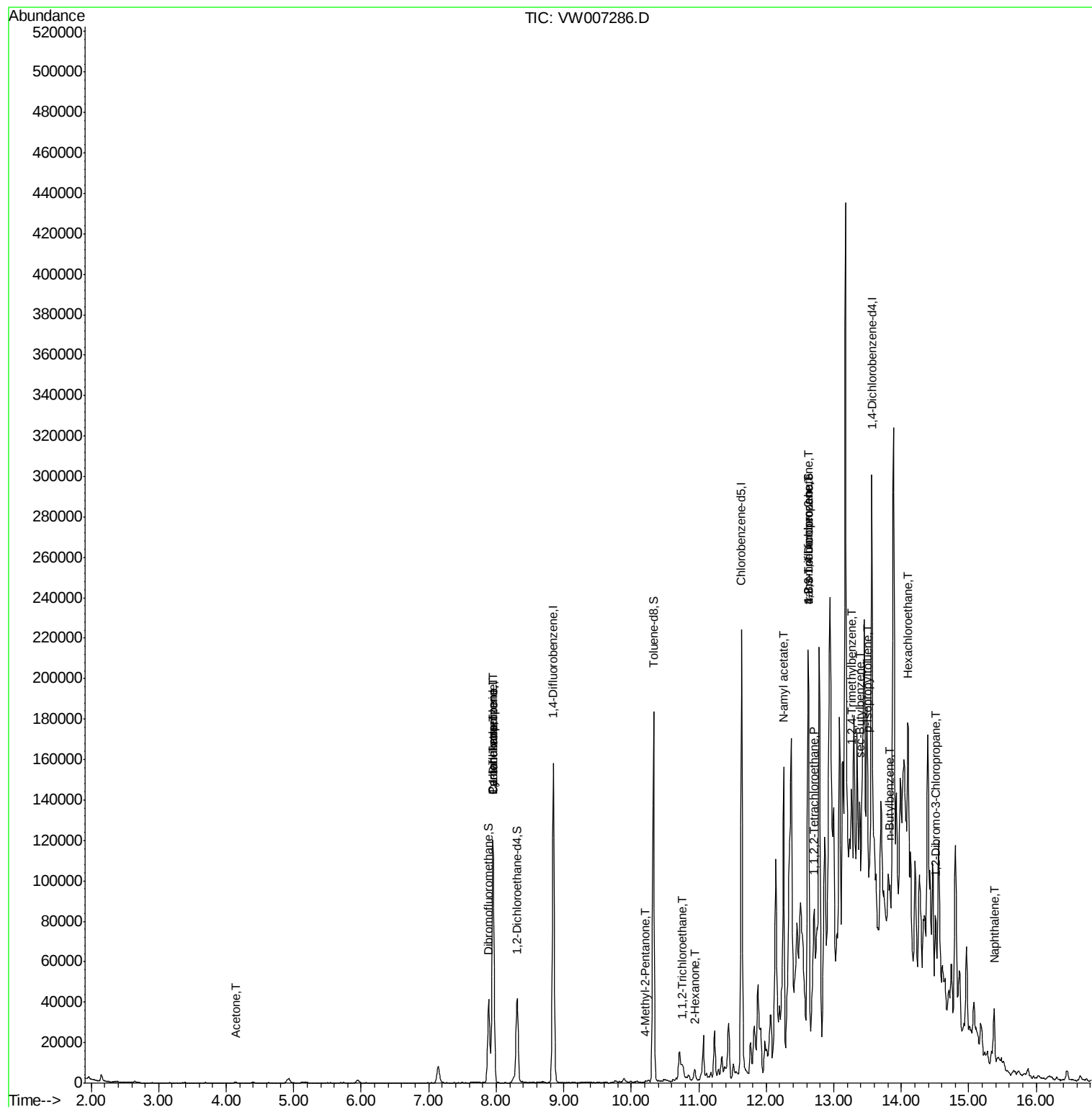
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.15	59	425	Below Cal	#	75
16) Acetone	4.14	43	810	4.180	ug/l #	88
20) Methylene Chloride	4.93	84	1996	Below Cal	#	80
31) Cyclohexane	7.95	56	1881	1.158	ug/l #	27
36) 1,1-Dichloropropene	7.95	75	6812	5.141	ug/l #	50
38) Carbon Tetrachloride	7.95	117	9193	6.797	ug/l #	18
51) 4-Methyl-2-Pentanone	10.21	43	462	1.007	ug/l #	69
55) 1,1,2-Trichloroethane	10.76	97	679	1.086	ug/l #	23
59) 2-Hexanone	10.94	43	2135	6.420	ug/l #	23
74) N-amyl acetate	12.26	43	29508	31.791	ug/l #	69
75) 1,1,2,2-Tetrachloroethane	12.69	83	4342	6.386	ug/l #	74
76) 1,2,3-Trichloropropane	12.62	75	25441	51.045	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	25441	110.021	ug/l #	16
84) 1,2,4-Trimethylbenzene	13.26	105	28240	6.177	ug/l	96
85) sec-Butylbenzene	13.39	105	5830	1.043	ug/l #	68
86) p-Isopropyltoluene	13.51	119	6026	1.212	ug/l	94
89) n-Butylbenzene	13.83	91	9807	2.110	ug/l #	78
90) Hexachloroethane	14.10	117	4458	5.882	ug/l #	14
92) 1,2-Dibromo-3-Chloropropan	14.52	75	190	1.443	ug/l #	7
95) Naphthalene	15.38	128	25814	10.349	ug/l	95

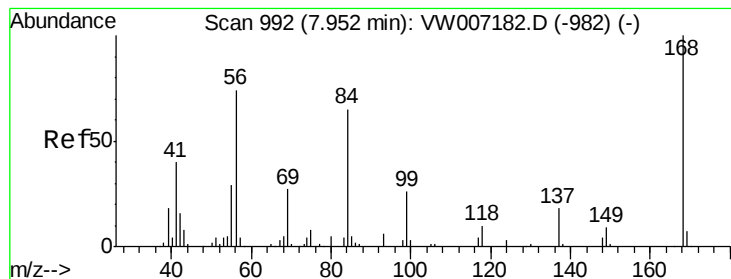
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W120418S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 05 01:35:23 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW007286.D

Acq: 06 Dec 2018 18:43

Instrument :

MSVOA_W

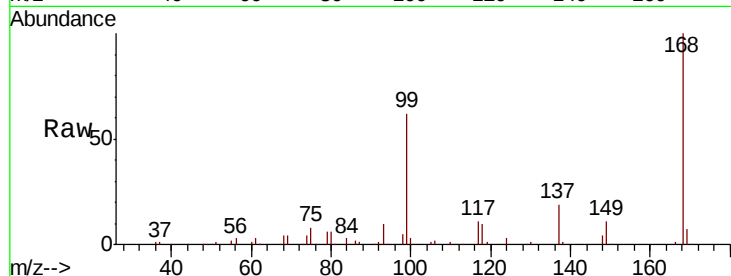
ClientSampleId :

Tot Ion:168 Resp: 87918

Ion Ratio Lower Upper

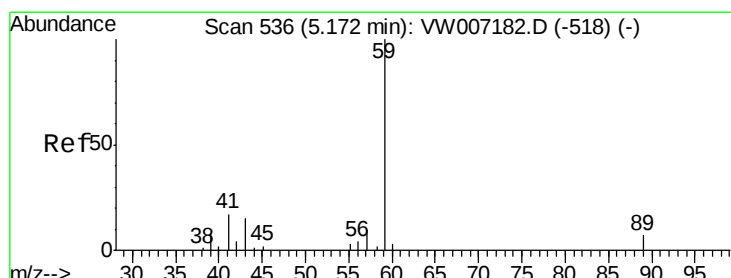
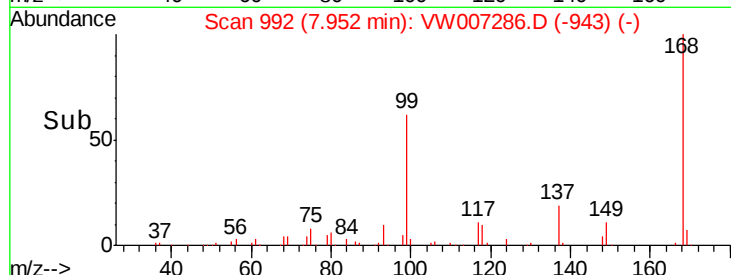
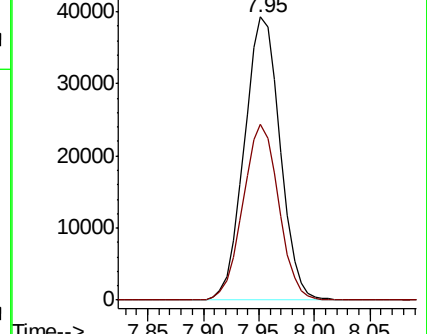
168 100

99 62.2 47.8 71.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.15 min Scan# 533

Delta R.T. -0.02 min

Lab File: VW007286.D

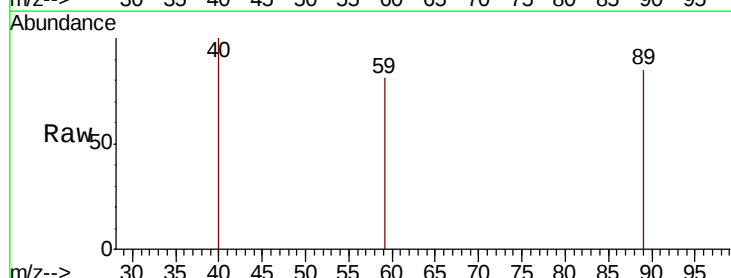
Acq: 06 Dec 2018 18:43

Tgt Ion: 59 Resp: 425

Ion Ratio Lower Upper

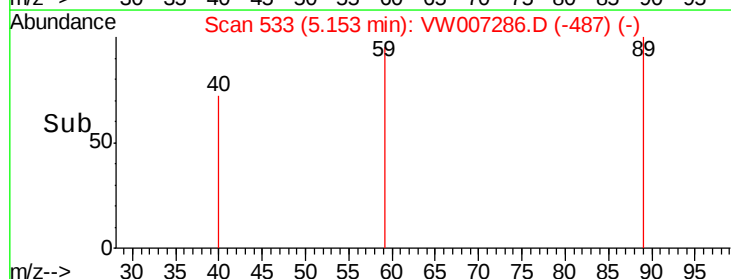
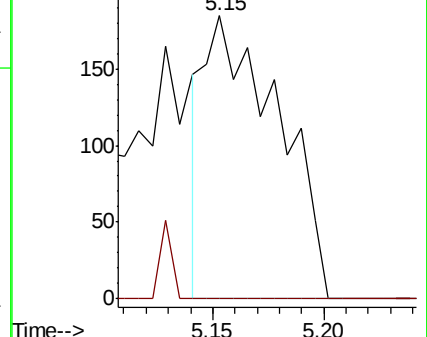
59 100

57 0.0 7.1 10.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

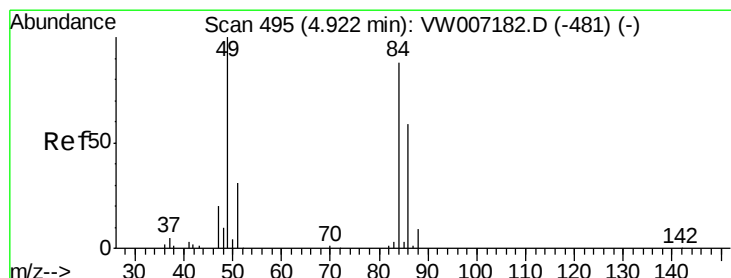
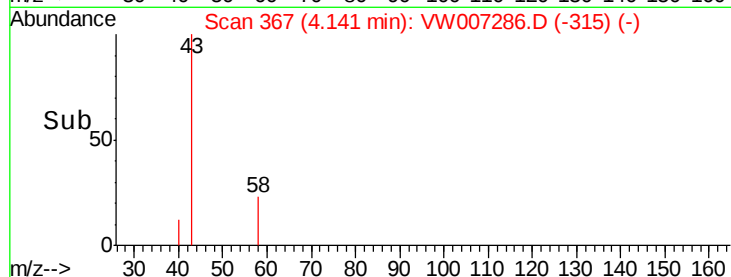
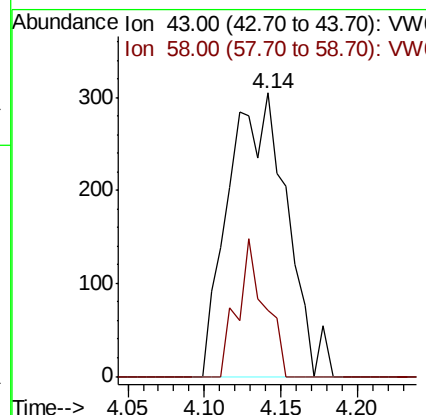
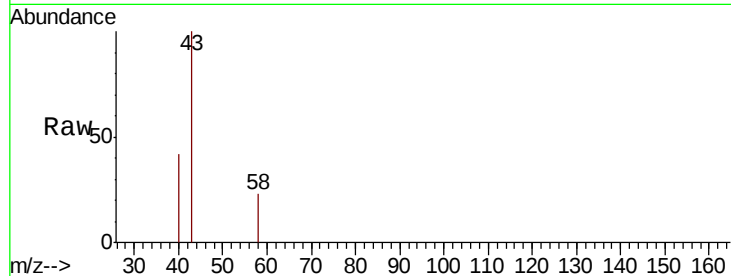




#16
Acetone
Concen: 4.180 ug/l
RT: 4.14 min Scan# 367
Delta R.T. 0.02 min
Lab File: VW007286.D
Acq: 06 Dec 2018 18:43

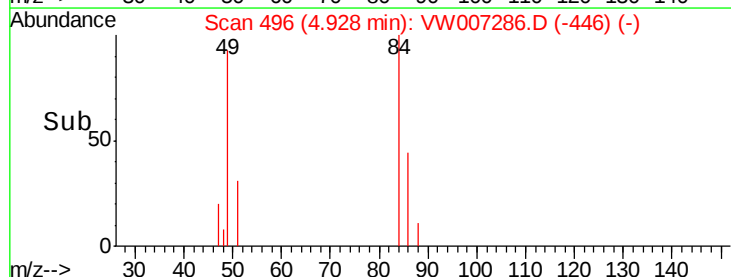
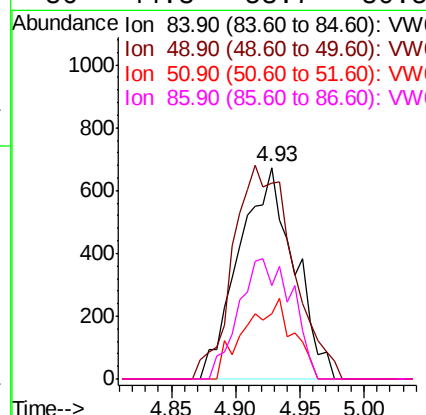
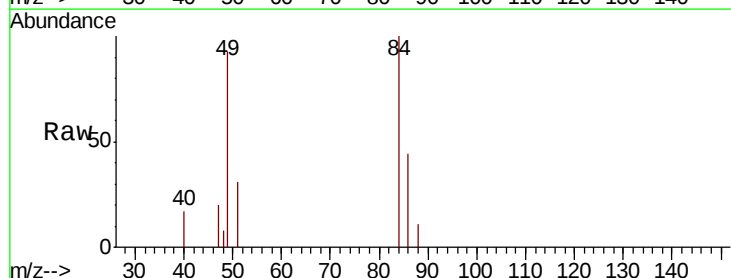
Instrument :
MSVOA_W
ClientSampleId :

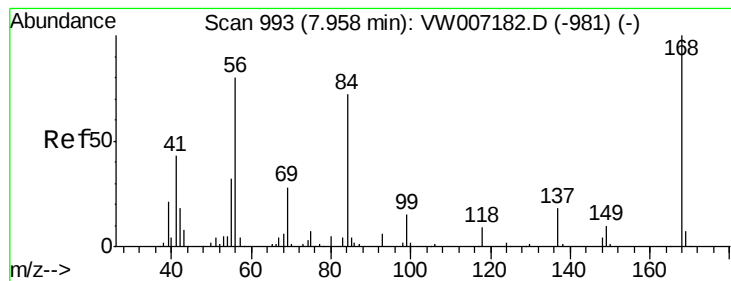
Tot Ion: 43 Resp: 810
Ion Ratio Lower Upper
43 100
58 23.3 23.8 35.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.93 min Scan# 496
Delta R.T. 0.01 min
Lab File: VW007286.D
Acq: 06 Dec 2018 18:43

Tgt Ion: 84 Resp: 1996
Ion Ratio Lower Upper
84 100
49 92.7 90.6 135.8
51 30.8 27.6 41.4
86 44.3 53.7 80.5#





#31

Cyclohexane

Concen: 1.158 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.01 min

Lab File: VW007286.D

Acq: 06 Dec 2018 18:43

Instrument :

MSVOA_W

ClientSampled :

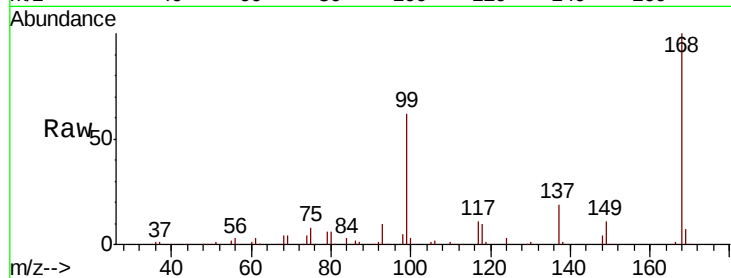
Tot Ion: 56 Resp: 1881

Ion Ratio Lower Upper

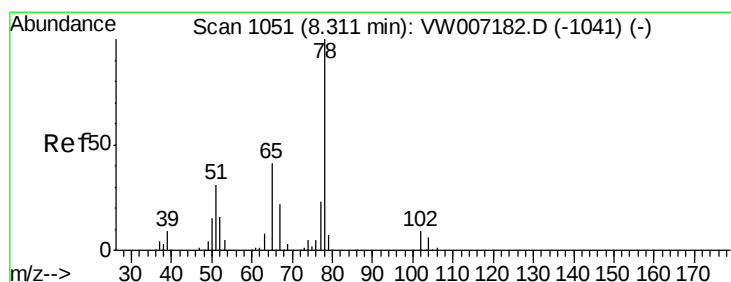
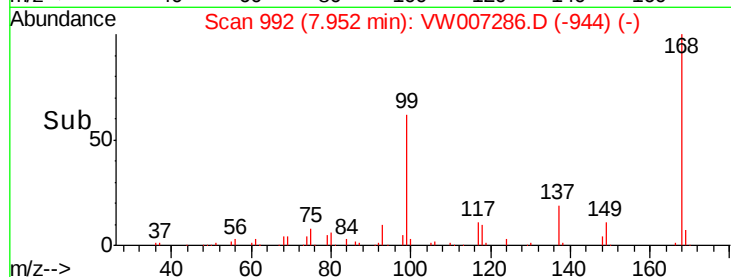
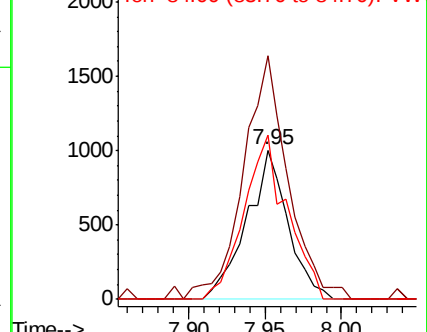
56 100

69 155.2 28.2 42.2#

84 110.2 72.1 108.1#



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: 42.877 ug/l

RT: 8.31 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VW007286.D

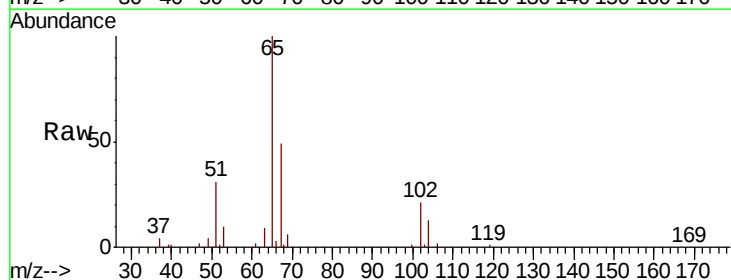
Acq: 06 Dec 2018 18:43

Tgt Ion: 65 Resp: 35097

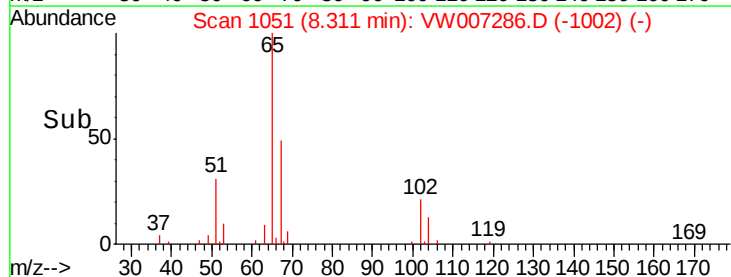
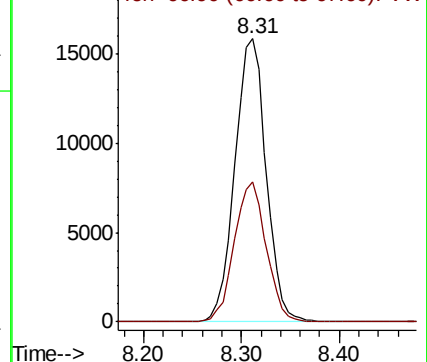
Ion Ratio Lower Upper

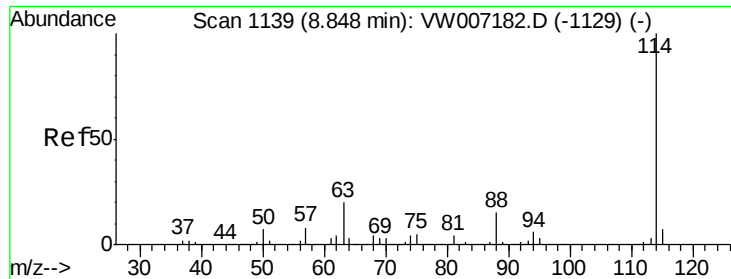
65 100

67 50.2 0.0 106.4



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

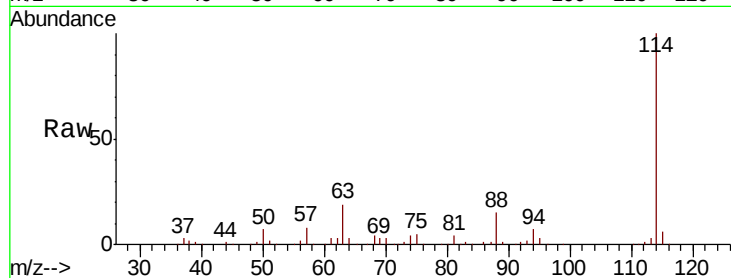




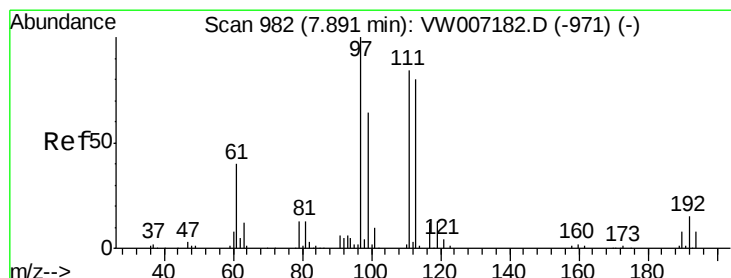
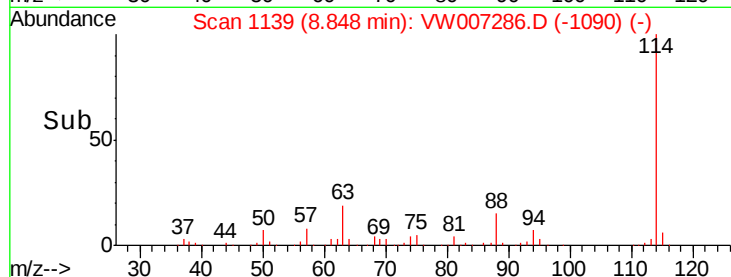
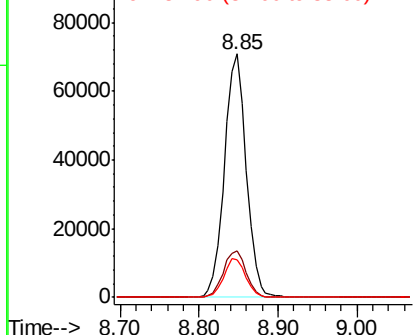
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1139
 Delta R.T. -0.00 min
 Lab File: VW007286.D
 Acq: 06 Dec 2018 18:43

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion:114 Resp: 136187
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 40.2
 88 15.3 0.0 30.0

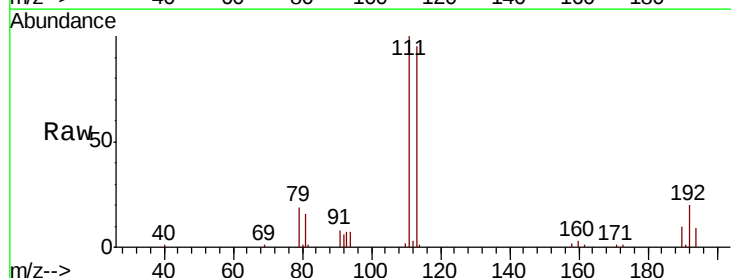


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

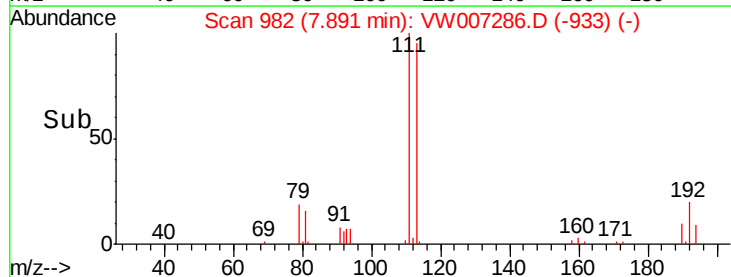
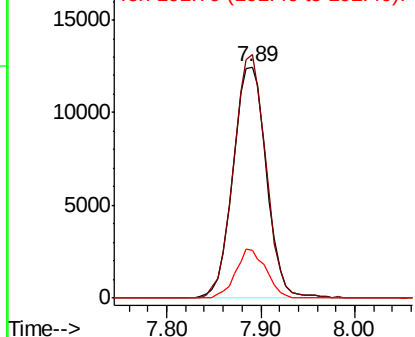


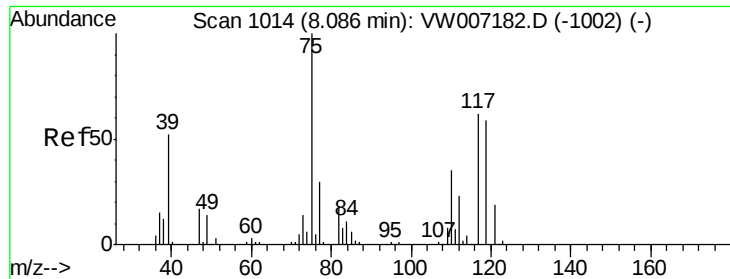
#35
 Dibromofluoromethane
 Concen: 39.491 ug/l
 RT: 7.89 min Scan# 982
 Delta R.T. -0.00 min
 Lab File: VW007286.D
 Acq: 06 Dec 2018 18:43

Tgt Ion:113 Resp: 30795
 Ion Ratio Lower Upper
 113 100
 111 101.8 82.2 123.4
 192 19.0 14.4 21.6



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

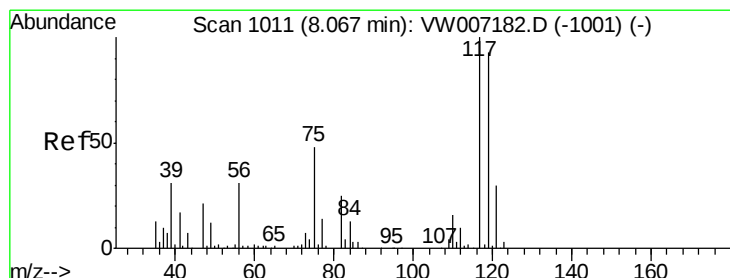
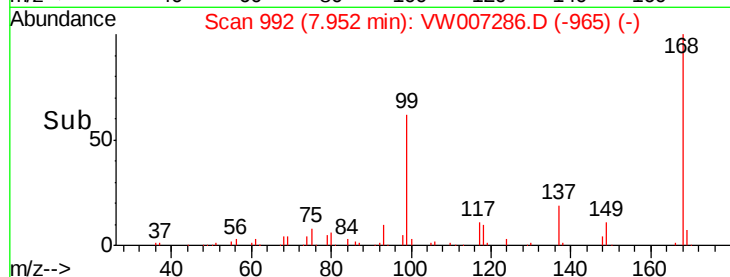
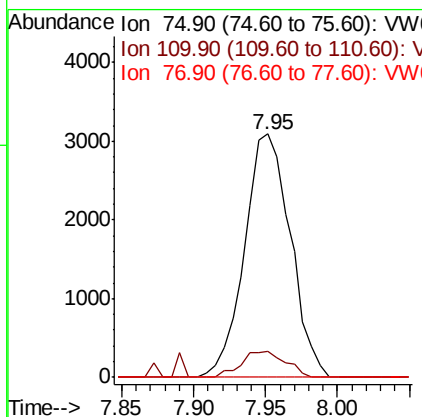
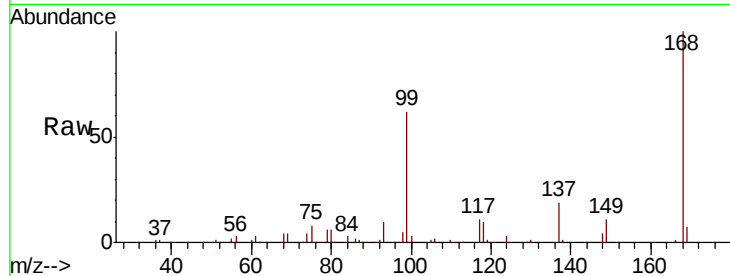




#36
 1,1-Dichloropropene
 Concen: 5.141 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.13 min
 Lab File: VW007286.D
 Acq: 06 Dec 2018 18:43

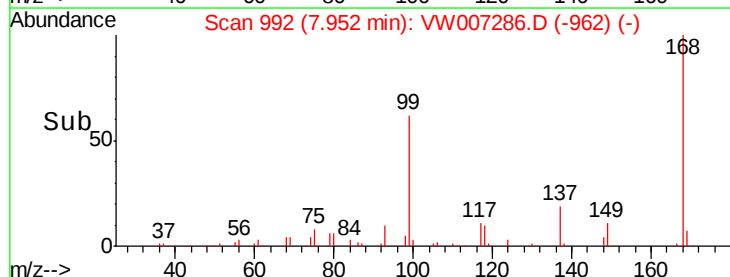
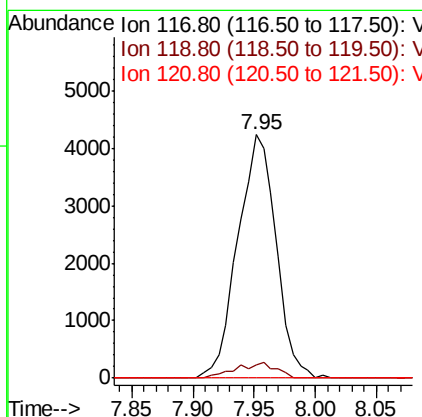
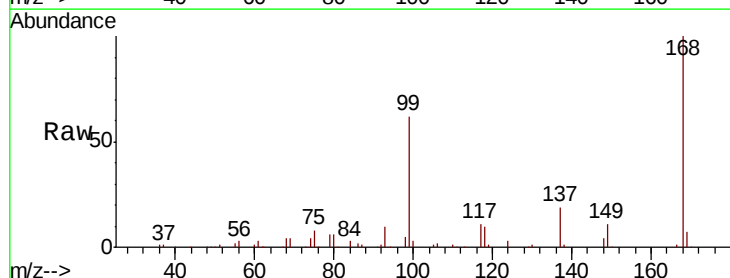
Instrument :
 MSVOA_W
 ClientSampleId :

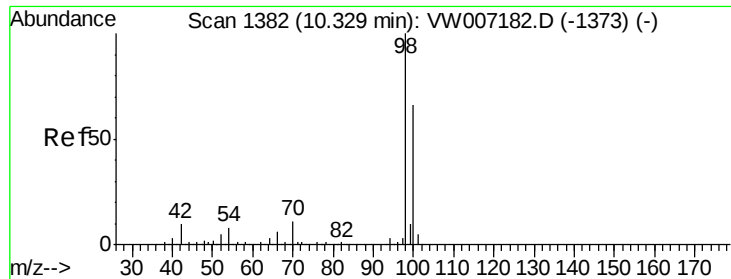
Tot Ion	75	Resp	6812
Ion Ratio	Lower	Upper	
75	100		
110	10.5	18.3	54.9#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 6.797 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.12 min
 Lab File: VW007286.D
 Acq: 06 Dec 2018 18:43

Tgt Ion	117	Resp	9193
Ion Ratio	Lower	Upper	
117	100		
119	5.5	74.1	111.1#
121	0.0	23.9	35.9#





#50

Toluene-d8

Concen: 36.907 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. -0.00 min

Lab File: VW007286.D

Acq: 06 Dec 2018 18:43

Instrument :

MSVOA_W

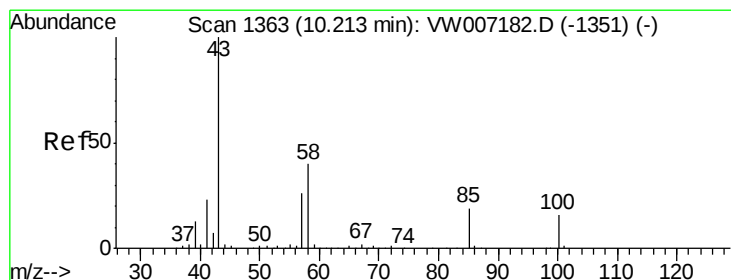
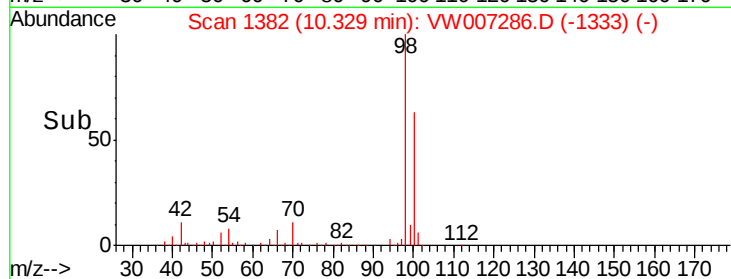
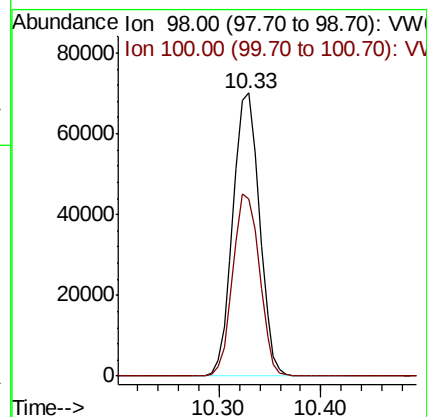
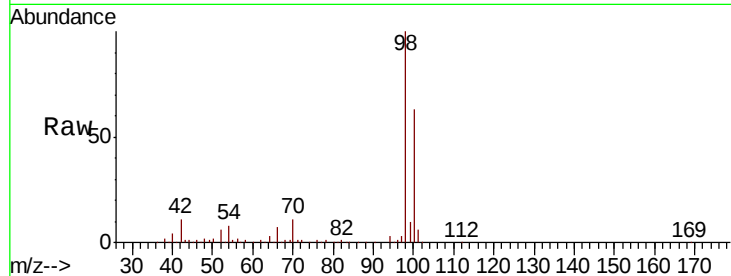
ClientSampled :

Tot Ion: 98 Resp: 126775

Ion Ratio Lower Upper

98 100

100 64.4 52.7 79.1



#51

4-Methyl-2-Pentanone

Concen: 1.007 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. -0.00 min

Lab File: VW007286.D

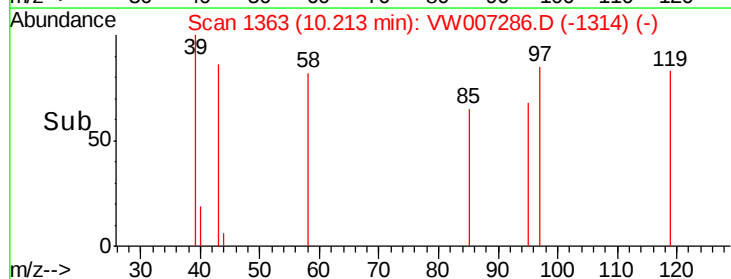
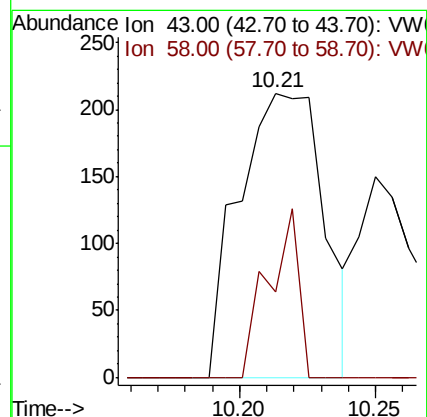
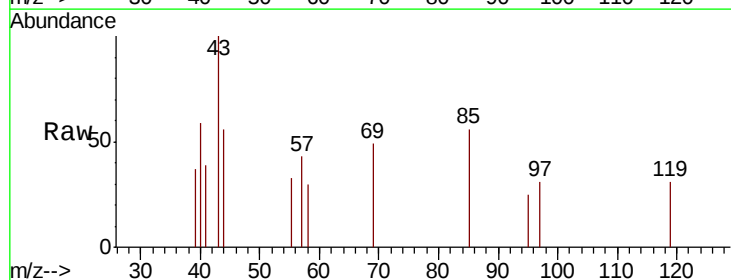
Acq: 06 Dec 2018 18:43

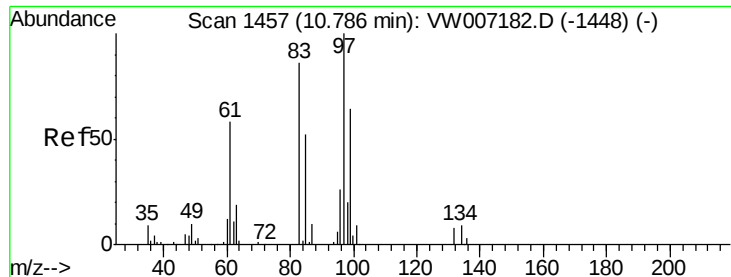
Tgt Ion: 43 Resp: 462

Ion Ratio Lower Upper

43 100

58 21.2 32.3 48.5#

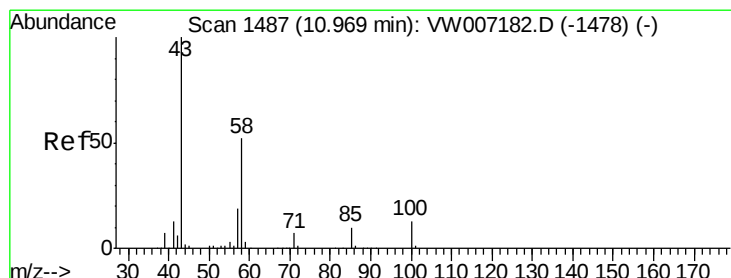
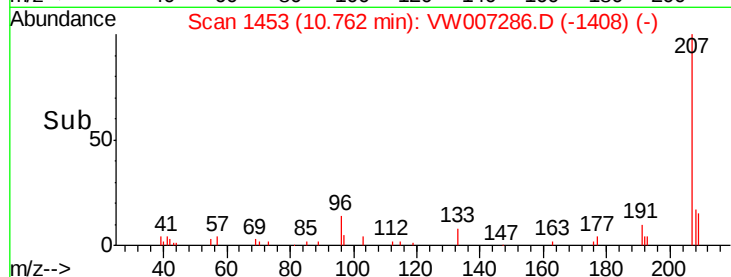
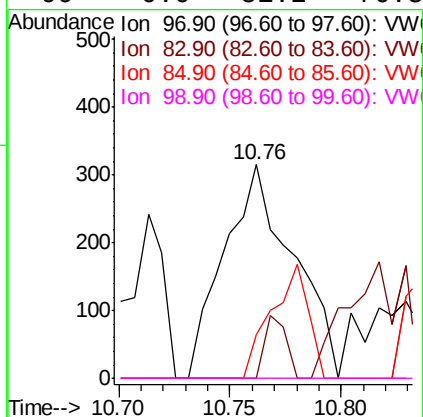
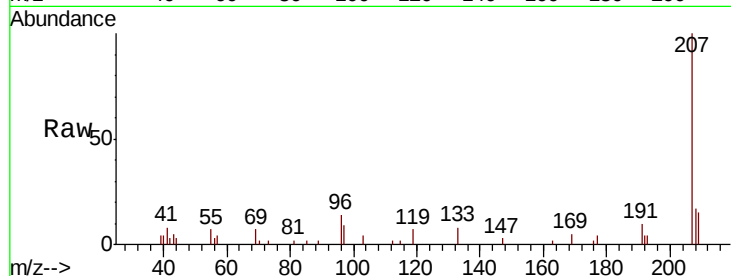




#55
 1,1,2-Trichloroethane
 Concen: 1.086 ug/l
 RT: 10.76 min Scan# 1453
 Delta R.T. -0.02 min
 Lab File: VW007286.D
 Acq: 06 Dec 2018 18:43

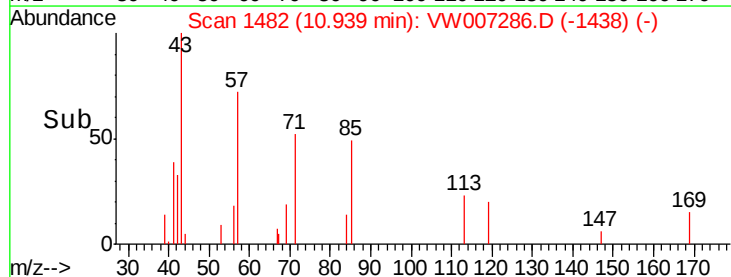
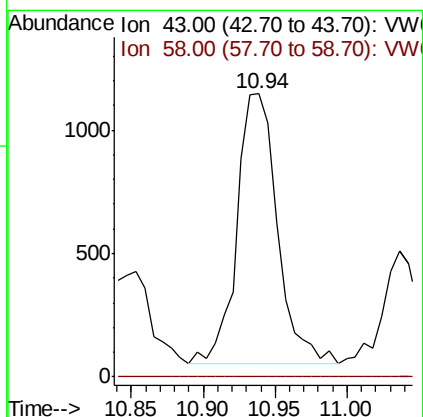
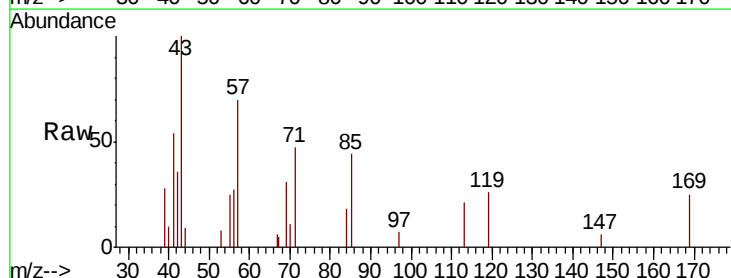
Instrument :
 MSVOA_W
 ClientSampled :

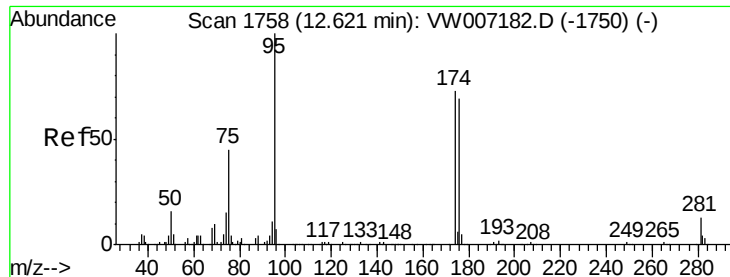
Tot Ion	Ratio	Lower	Upper
97	100		
83	0.0	68.6	102.8#
85	20.6	41.4	62.2#
99	0.0	51.2	76.8#



#59
 2-Hexanone
 Concen: 6.420 ug/l
 RT: 10.94 min Scan# 1482
 Delta R.T. -0.03 min
 Lab File: VW007286.D
 Acq: 06 Dec 2018 18:43

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.1	84.4#

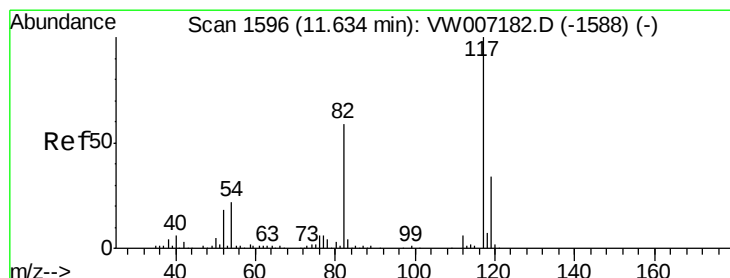
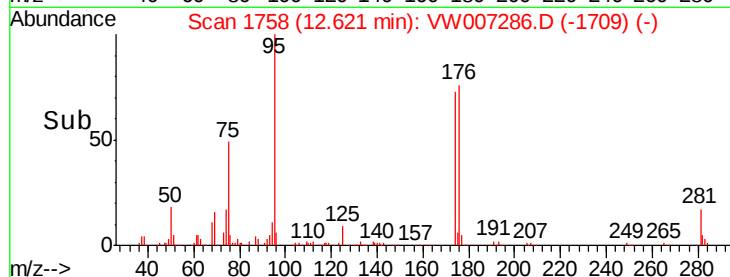
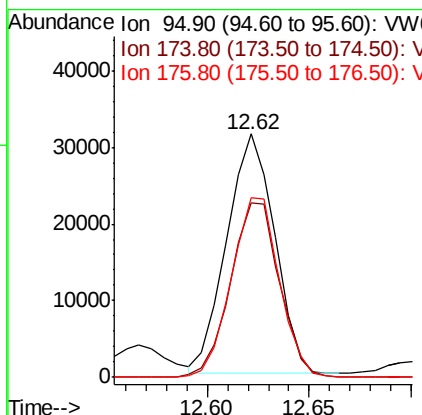
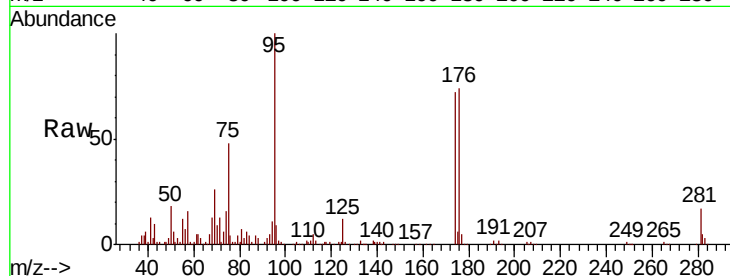




#62
4-Bromofluorobenzene
Concen: 39.249 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.00 min
Lab File: VW007286.D
Acq: 06 Dec 2018 18:43

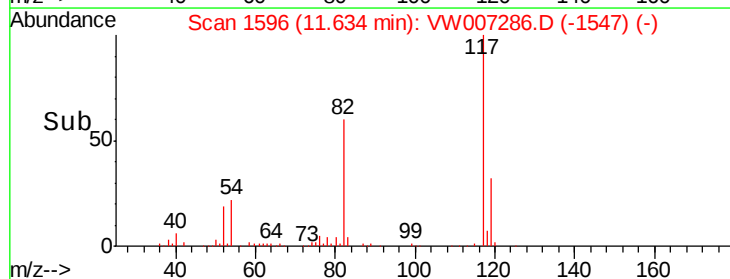
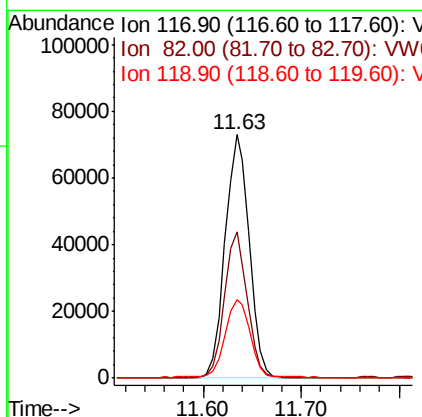
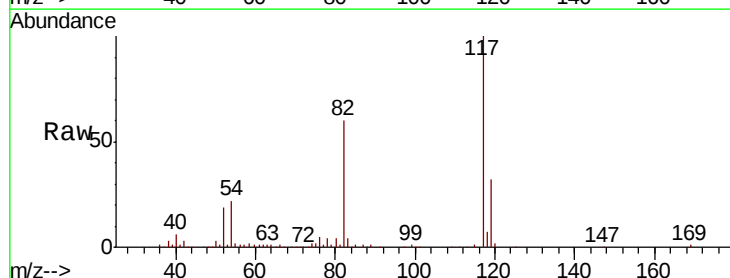
Instrument :
MSVOA_W
ClientSampled :

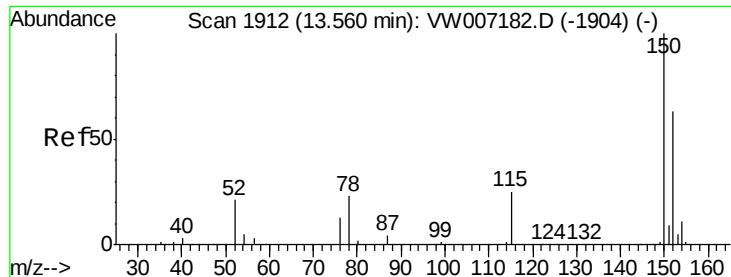
Tot Ion: 95 Resp: 50887
Ion Ratio Lower Upper
95 100
174 74.3 0.0 148.0
176 75.3 0.0 139.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW007286.D
Acq: 06 Dec 2018 18:43

Tgt Ion: 117 Resp: 124445
Ion Ratio Lower Upper
117 100
82 59.6 47.4 71.2
119 32.2 26.8 40.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1913

Delta R.T. 0.01 min

Lab File: VW007286.D

Acq: 06 Dec 2018 18:43

Instrument :

MSVOA_W

ClientSampleId :

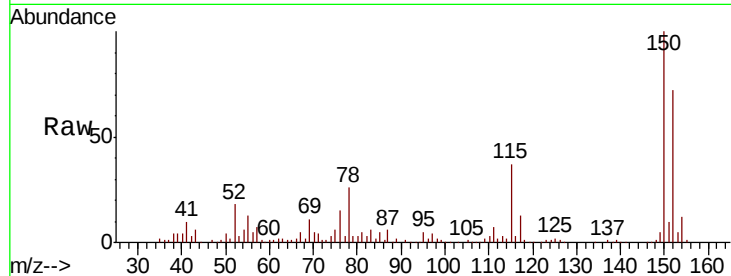
Tot Ion:152 Resp: 64367

Ion Ratio Lower Upper

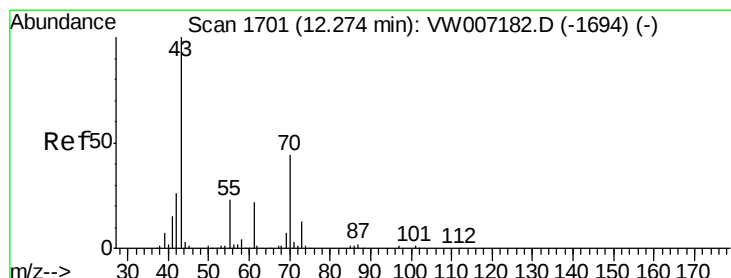
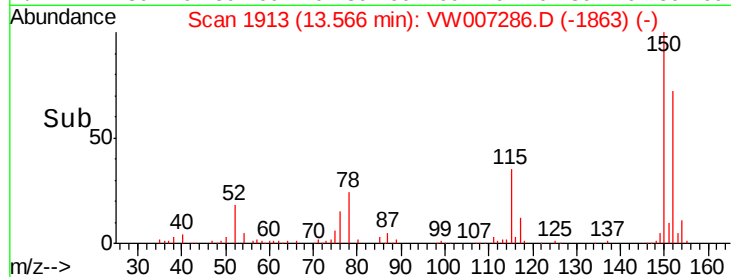
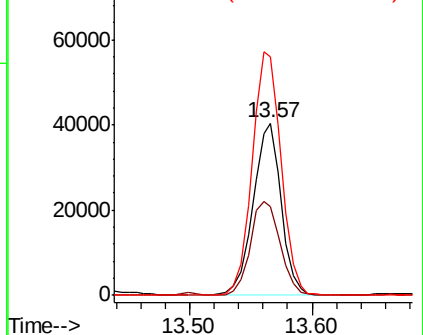
152 100

115 58.5 31.3 93.8

150 146.4 0.0 358.0



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-amil acetate

Concen: 31.791 ug/l

RT: 12.26 min Scan# 1698

Delta R.T. -0.02 min

Lab File: VW007286.D

Acq: 06 Dec 2018 18:43

Tgt Ion: 43 Resp: 29508

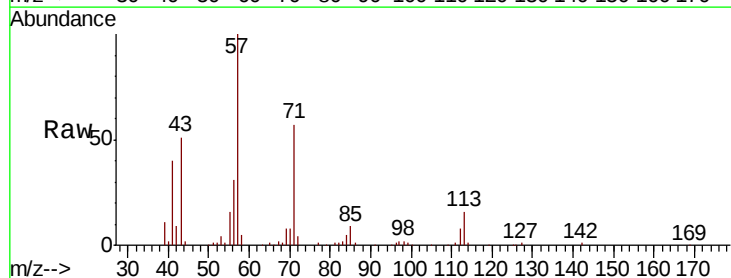
Ion Ratio Lower Upper

43 100

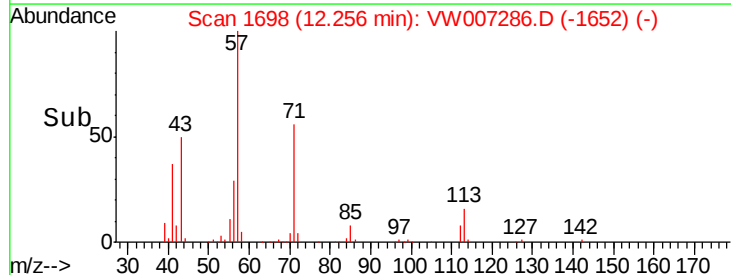
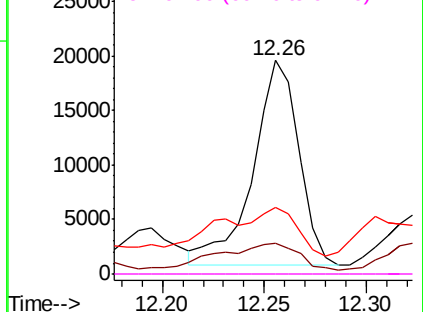
70 22.0 34.0 51.0#

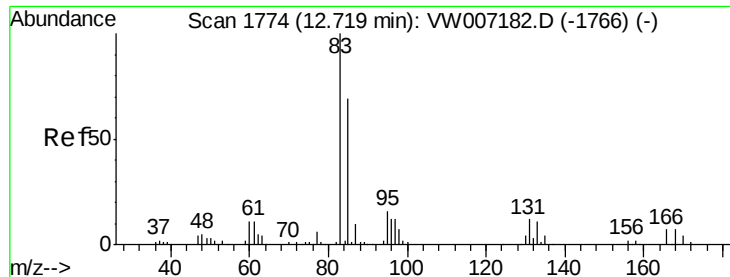
55 18.3 19.0 28.6#

61 0.0 19.7 29.5#



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: 6.386 ug/l

RT: 12.69 min Scan# 1770

Delta R.T. -0.02 min

Lab File: VW007286.D

Acq: 06 Dec 2018 18:43

Instrument :

MSVOA_W

ClientSampleId :

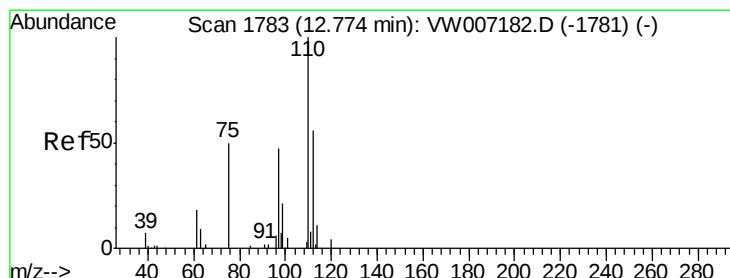
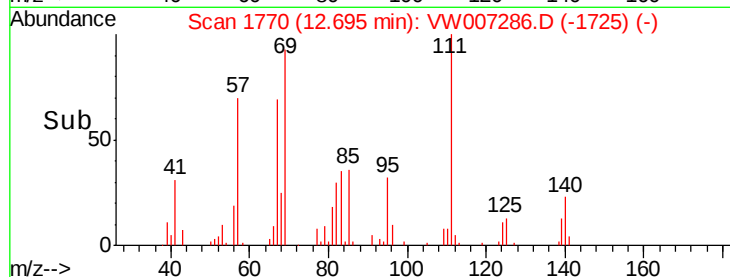
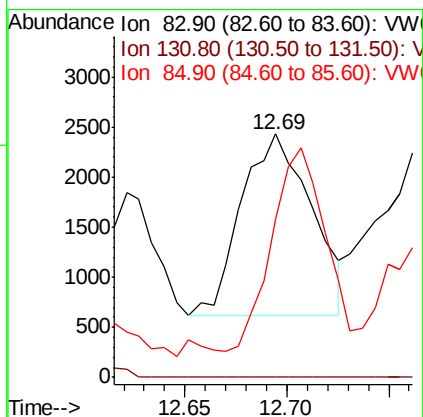
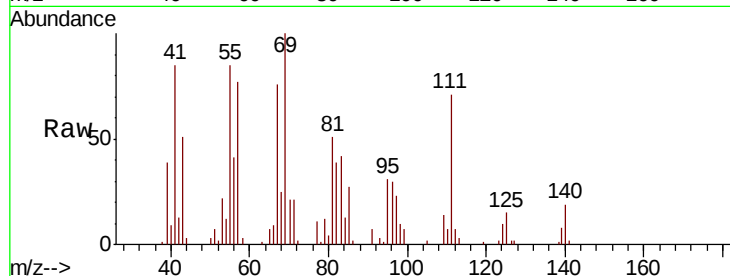
Tot Ion: 83 Resp: 4342

Ion Ratio Lower Upper

83 100

131 0.0 6.0 18.1#

85 85.8 33.0 99.0



#76

1,2,3-Trichloropropane

Concen: 51.045 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW007286.D

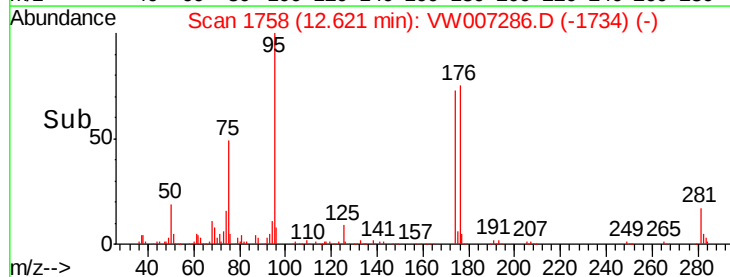
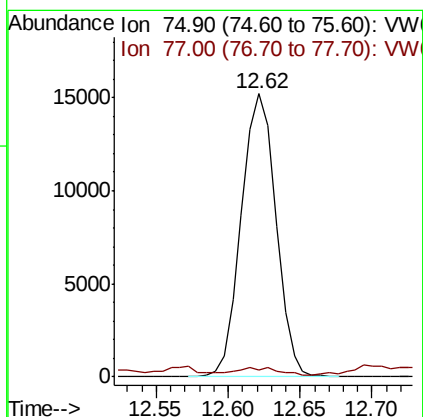
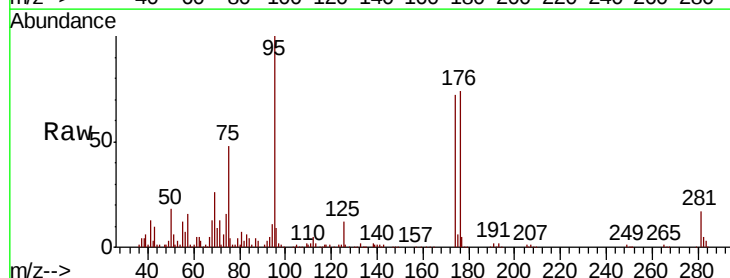
Acq: 06 Dec 2018 18:43

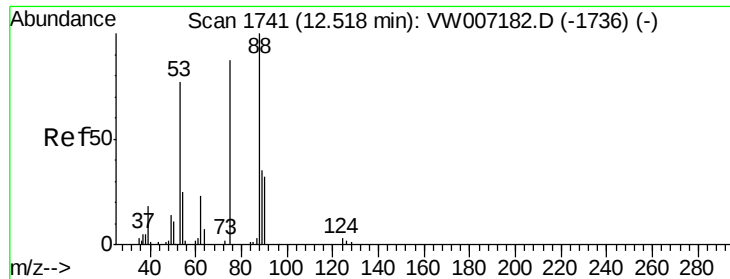
Tgt Ion: 75 Resp: 25441

Ion Ratio Lower Upper

75 100

77 2.9 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 110.021 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW007286.D

Acq: 06 Dec 2018 18:43

Instrument :

MSVOA_W

ClientSampleId :

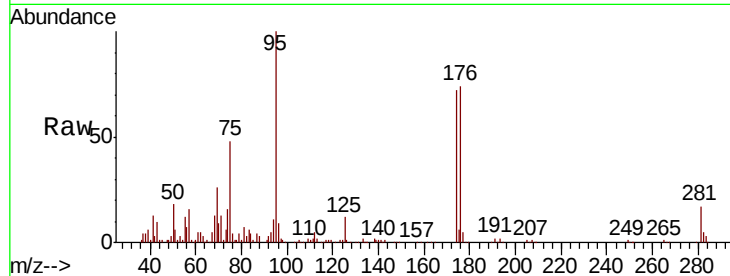
Tot Ion: 75 Resp: 25441

Ion Ratio Lower Upper

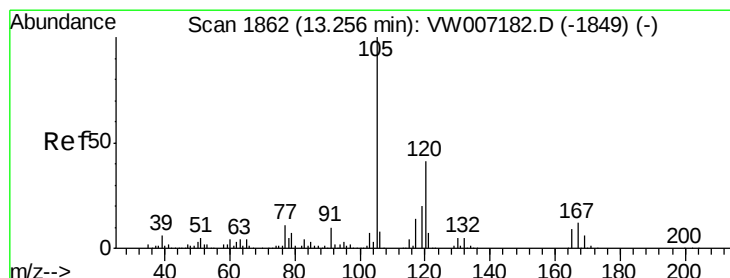
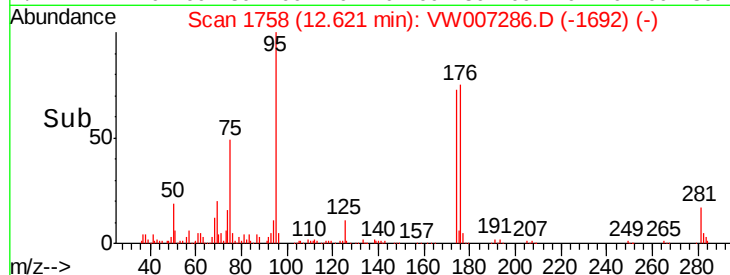
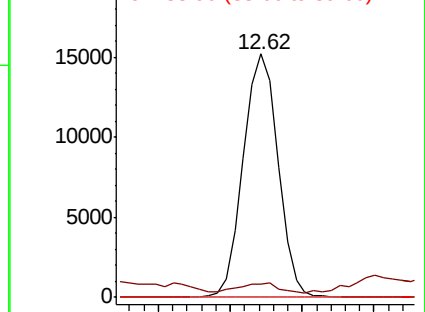
75 100

53 4.5 72.8 109.2#

89 0.2 36.4 54.6#



Abundance Ion 74.90 (74.60 to 75.60): VW
Ion 53.00 (52.70 to 53.70): VW
Ion 88.90 (88.60 to 89.60): VW



#84

1,2,4-Trimethylbenzene

Concen: 6.177 ug/l

RT: 13.26 min Scan# 1862

Delta R.T. -0.00 min

Lab File: VW007286.D

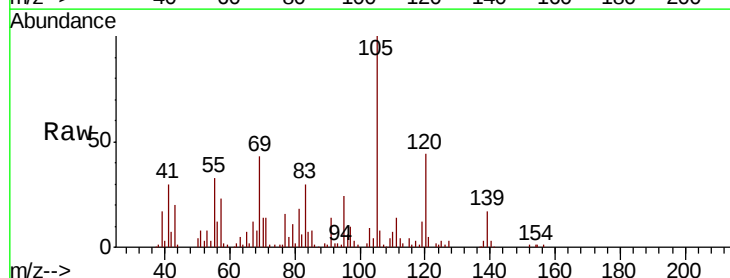
Acq: 06 Dec 2018 18:43

Tgt Ion:105 Resp: 28240

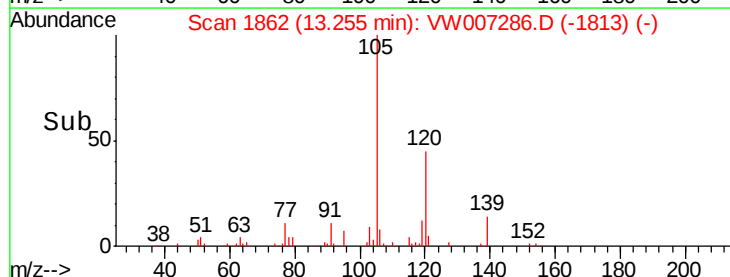
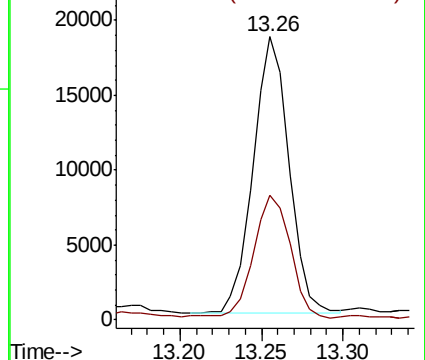
Ion Ratio Lower Upper

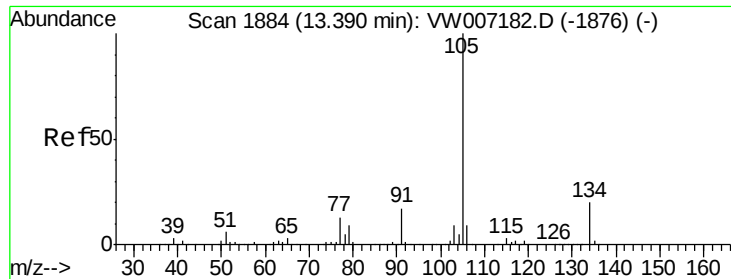
105 100

120 45.0 21.1 63.3



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

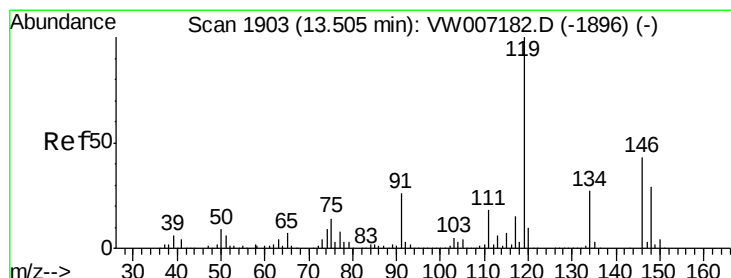
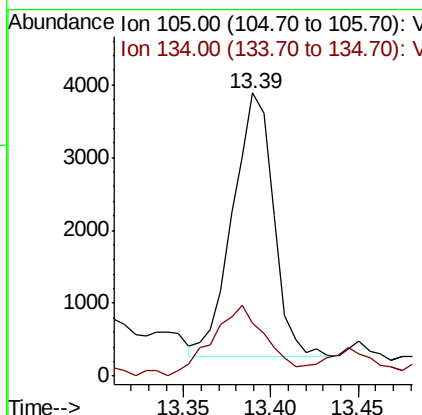
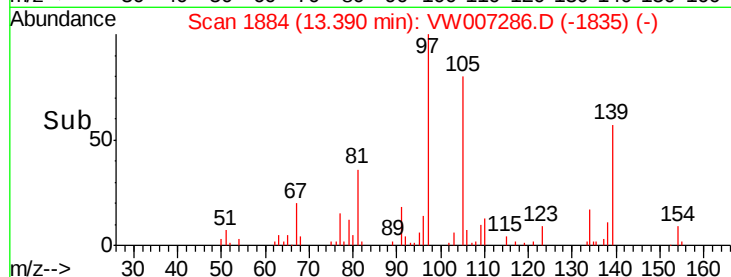
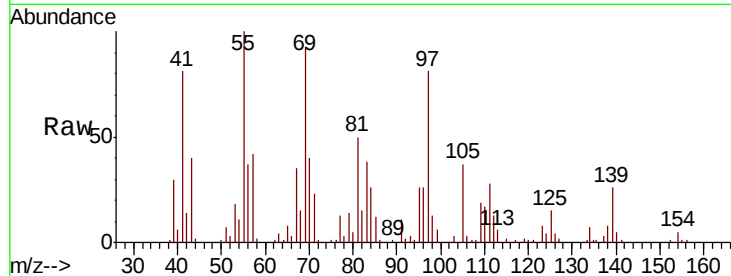




#85
 sec-Butylbenzene
 Concen: 1.043 ug/l
 RT: 13.39 min Scan# 1884
 Delta R.T. -0.00 min
 Lab File: VW007286.D
 Acq: 06 Dec 2018 18:43

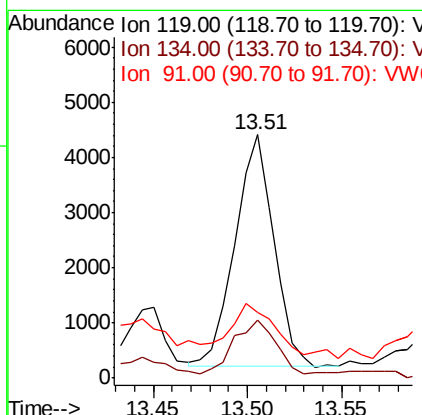
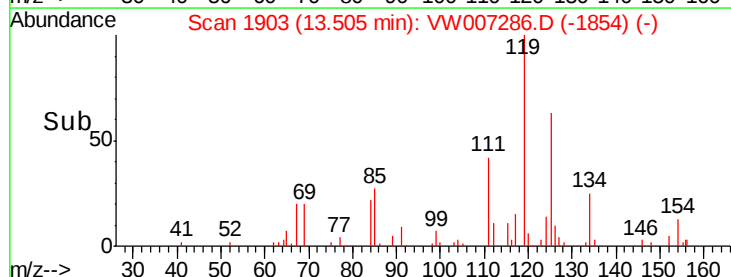
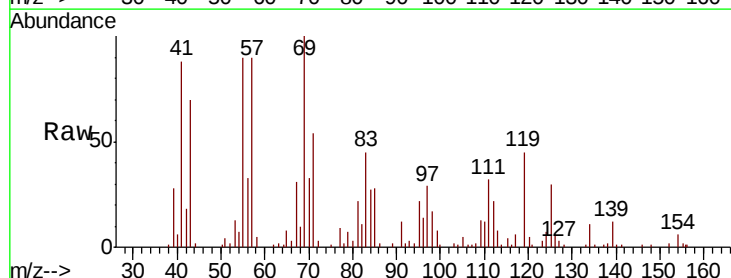
Instrument :
 MSVOA_W
 ClientSampled :

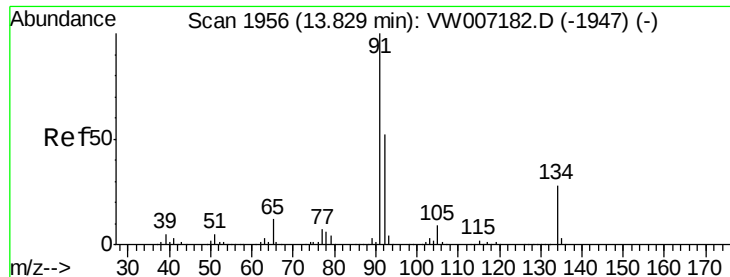
Tot Ion:105 Resp: 5830
 Ion Ratio Lower Upper
 105 100
 134 35.2 10.3 30.8#



#86
 p-Isopropyltoluene
 Concen: 1.212 ug/l
 RT: 13.51 min Scan# 1903
 Delta R.T. -0.00 min
 Lab File: VW007286.D
 Acq: 06 Dec 2018 18:43

Tgt Ion:119 Resp: 6026
 Ion Ratio Lower Upper
 119 100
 134 24.1 13.2 39.6
 91 21.1 12.4 37.2





#89

n-Butylbenzene

Concen: 2.110 ug/l

RT: 13.83 min Scan# 1956

Delta R.T. -0.00 min

Lab File: VW007286.D

Acq: 06 Dec 2018 18:43

Instrument :

MSVOA_W

ClientSampled :

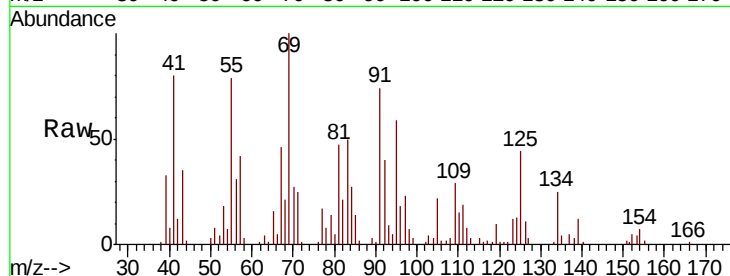
Tot Ion: 91 Resp: 9807

Ion Ratio Lower Upper

91 100

92 49.0 26.5 79.5

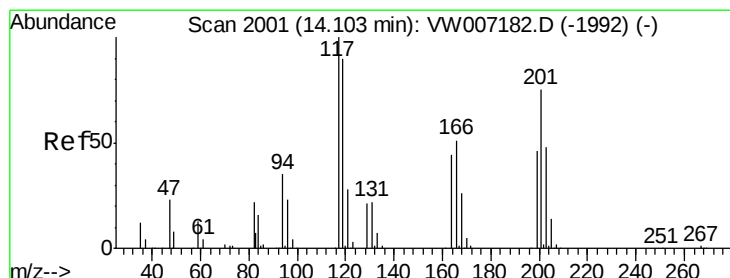
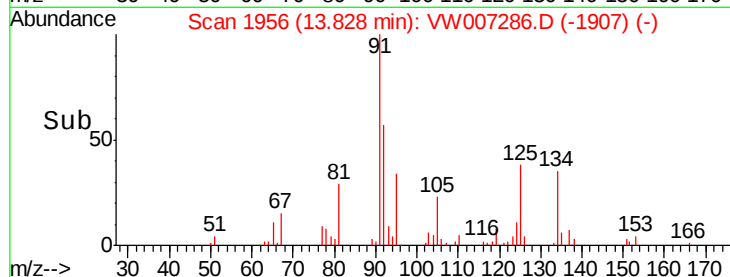
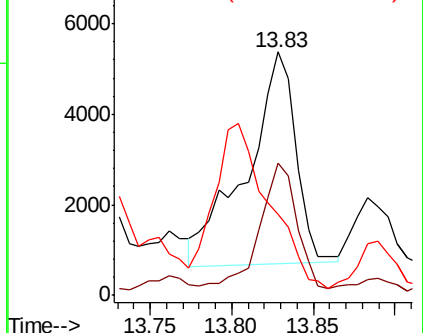
134 0.0 14.1 42.2#



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 5.882 ug/l

RT: 14.10 min Scan# 2001

Delta R.T. -0.00 min

Lab File: VW007286.D

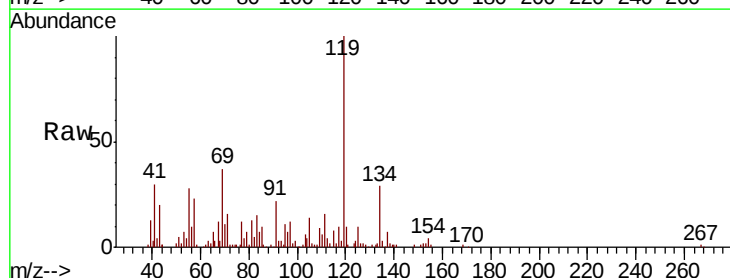
Acq: 06 Dec 2018 18:43

Tgt Ion: 117 Resp: 4458

Ion Ratio Lower Upper

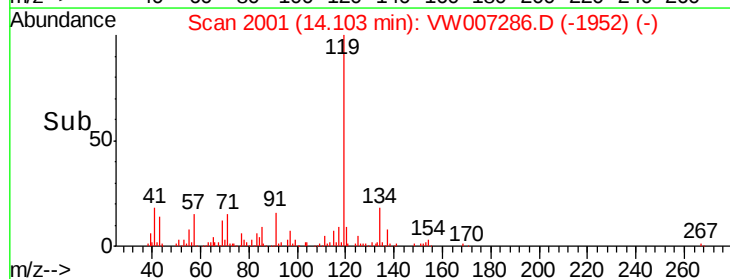
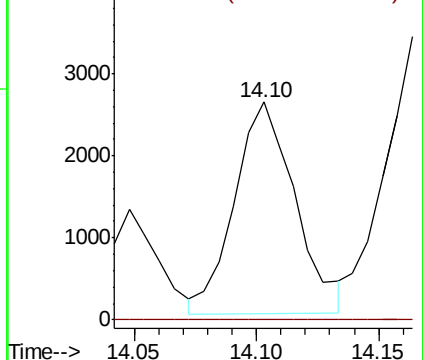
117 100

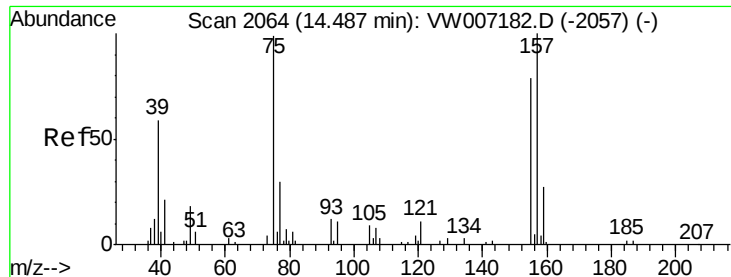
201 0.0 36.0 108.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.443 ug/l

RT: 14.52 min Scan# 2069

Delta R.T. 0.03 min

Lab File: VW007286.D

Acq: 06 Dec 2018 18:43

Instrument :

MSVOA_W

ClientSampled :

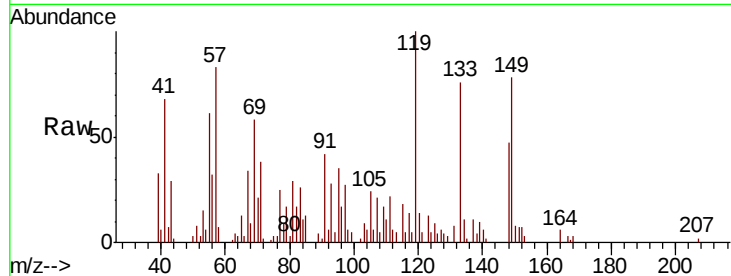
Tot Ion: 75 Resp: 190

Ion Ratio Lower Upper

75 100

155 12.6 42.4 127.2#

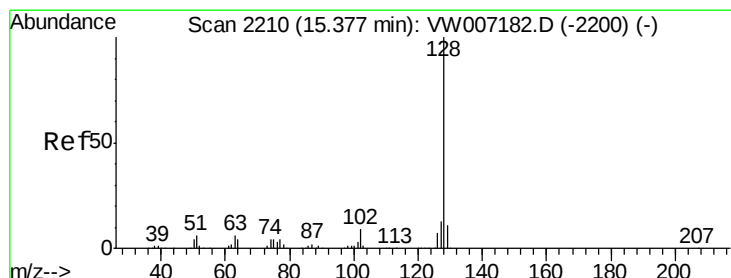
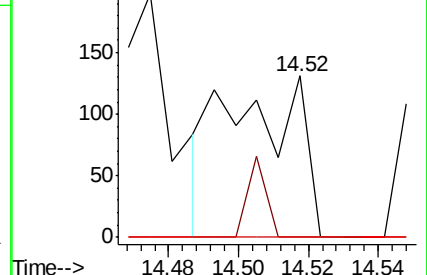
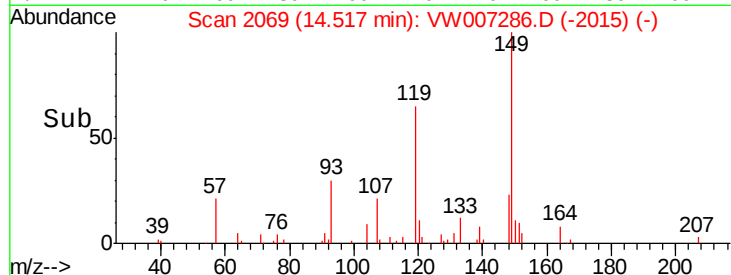
157 0.0 55.3 165.9#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#95

Naphthalene

Concen: 10.349 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. -0.00 min

Lab File: VW007286.D

Acq: 06 Dec 2018 18:43

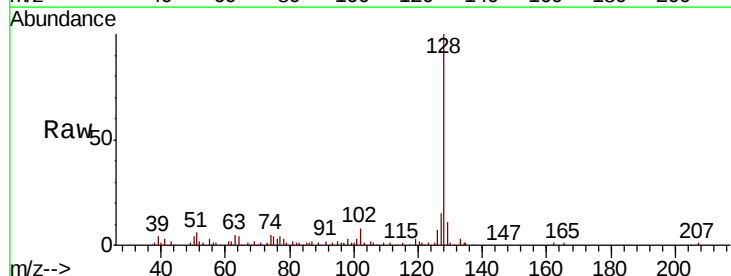
Tgt Ion:128 Resp: 25814

Ion Ratio Lower Upper

128 100

127 15.3 10.3 15.5

129 11.8 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

