

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW011819\
 Data File : VW008359.D
 Acq On : 18 Jan 2019 16:36
 Operator : SY/VA
 Sample : K1015-11
 Misc : 6.57G/5ML/MSVOA_W/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 SU-01-011719-B

Quant Time: Jan 19 01:45:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W011719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jan 18 00:57:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	89772	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	166702	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	151165	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	70919	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	55924	59.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.78%	
35) Dibromofluoromethane	7.88	113	53830	50.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.18%	
50) Toluene-d8	10.32	98	215935	51.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.30%	
62) 4-Bromofluorobenzene	12.62	95	70664	47.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.26%	

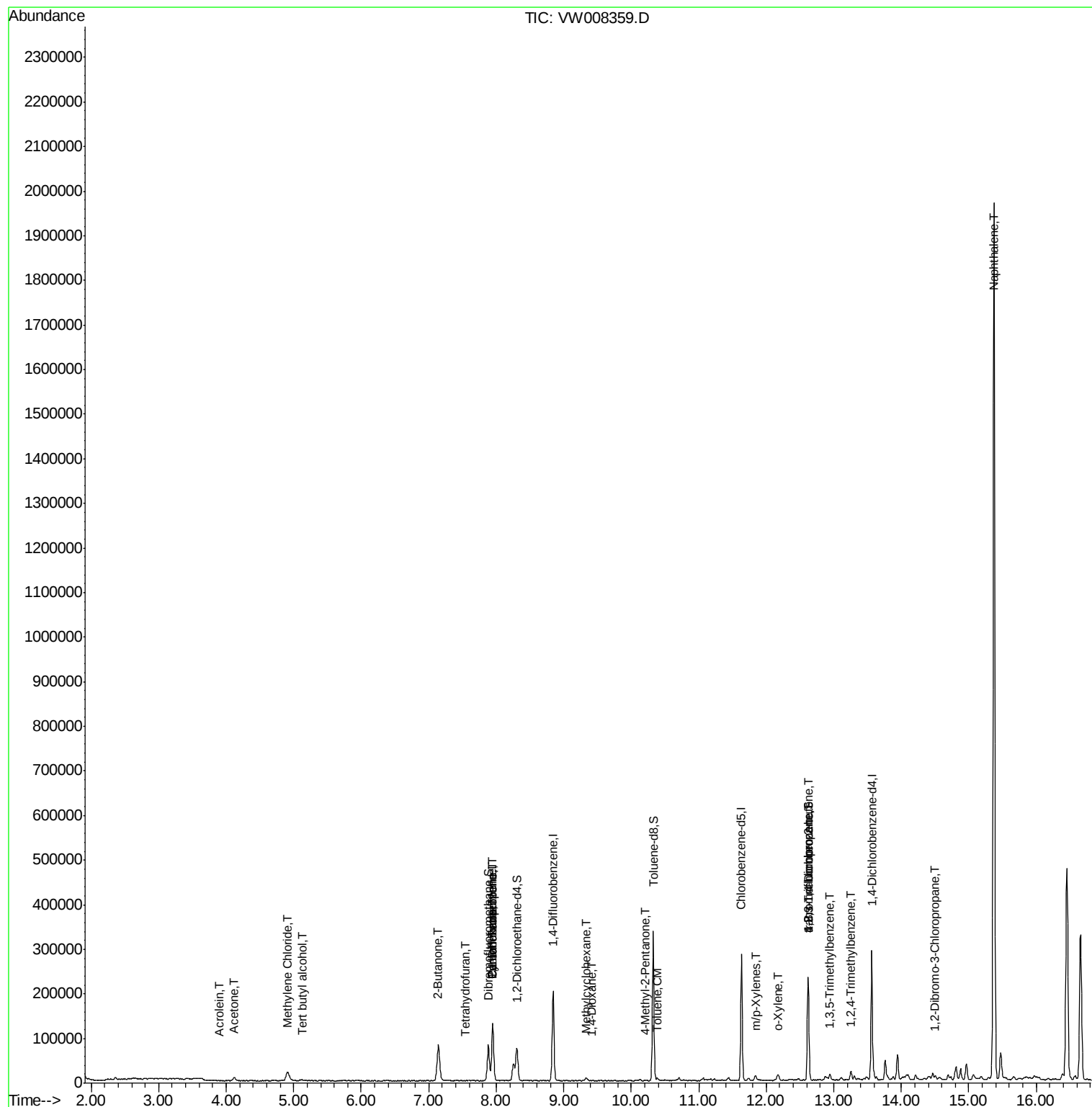
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.12	59	1392	22.139	ug/l #	58
13) Acrolein	3.90	56	142	9.883	ug/l #	79
16) Acetone	4.12	43	13776	63.522	ug/l	96
20) Methylene Chloride	4.90	84	15875	13.162	ug/l #	93
25) 2-Butanone	7.14	43	5916	21.298	ug/l #	73
29) Tetrahydrofuran	7.54	42	613	3.540	ug/l #	70
31) Cyclohexane	7.95	56	4016	2.303	ug/l #	68
36) 1,1-Dichloropropene	7.95	75	8122	4.843	ug/l #	53
38) Carbon Tetrachloride	7.95	117	10127	6.115	ug/l #	19
39) Methylcyclohexane	9.33	83	2320	1.163	ug/l #	84
49) 1,4-Dioxane	9.42	88	61	6.161	ug/l #	1
51) 4-Methyl-2-Pentanone	10.21	43	1130	1.708	ug/l #	74
52) Toluene	10.39	92	3031	1.008	ug/l	97
68) m/p-Xylenes	11.84	106	3044	1.370	ug/l	97
69) o-Xylene	12.16	106	3085	1.486	ug/l	95
76) 1,2,3-Trichloropropane	12.62	75	36672	56.783	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.95	105	4651	1.079	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.62	75	36672	135.508	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.26	105	10703	2.437	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.50	75	336	2.338	ug/l #	11
95) Naphthalene	15.37	128	1656375	582.457	ug/l	99

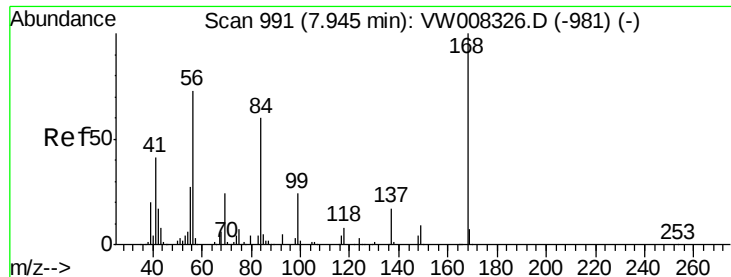
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW008359.D

Acq: 18 Jan 2019 16:36

Instrument :

MSVOA_W

ClientSampleId :

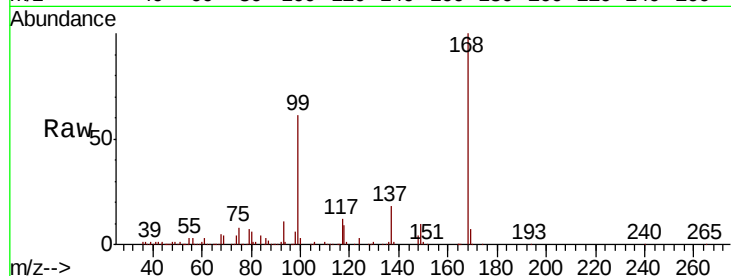
SU-01-011719-B

Tgt Ion:168 Resp: 89772

Ion Ratio Lower Upper

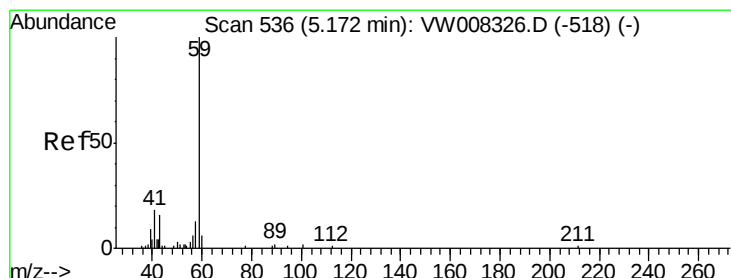
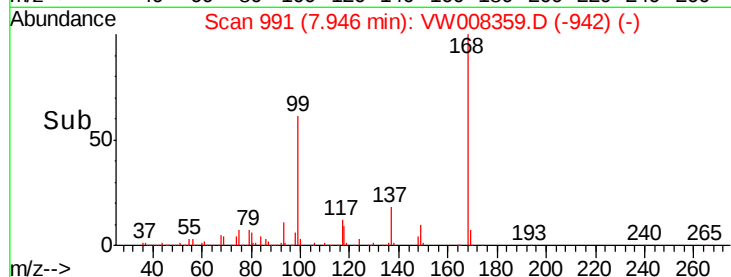
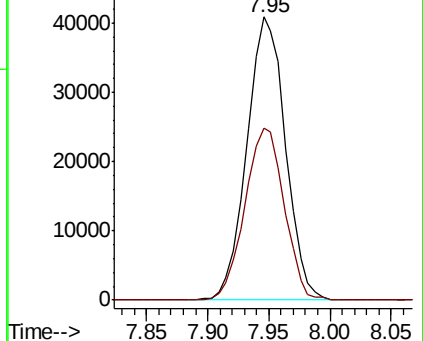
168 100

99 60.5 44.6 66.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 22.139 ug/l

RT: 5.12 min Scan# 527

Delta R.T. -0.05 min

Lab File: VW008359.D

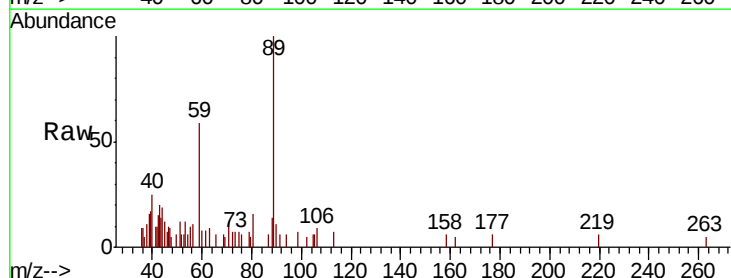
Acq: 18 Jan 2019 16:36

Tgt Ion: 59 Resp: 1392

Ion Ratio Lower Upper

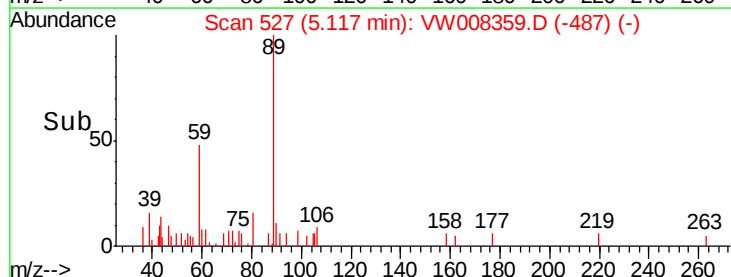
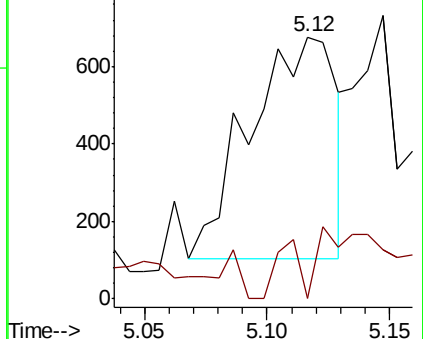
59 100

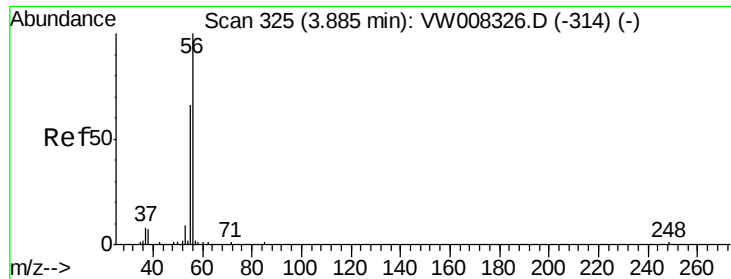
57 28.1 9.4 14.2#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: 9.883 ug/l

RT: 3.90 min Scan# 328

Delta R.T. 0.02 min

Lab File: VW008359.D

Acq: 18 Jan 2019 16:36

Instrument :

MSVOA_W

ClientSampleId :

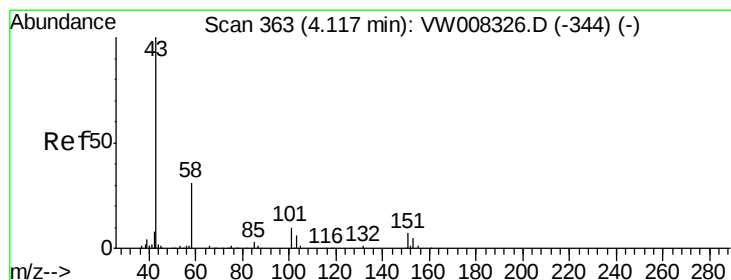
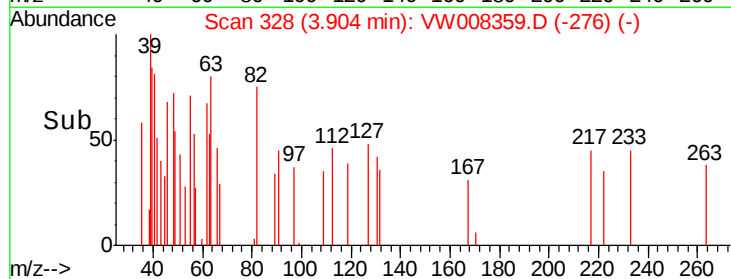
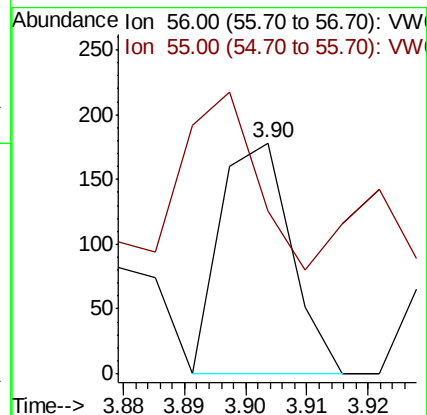
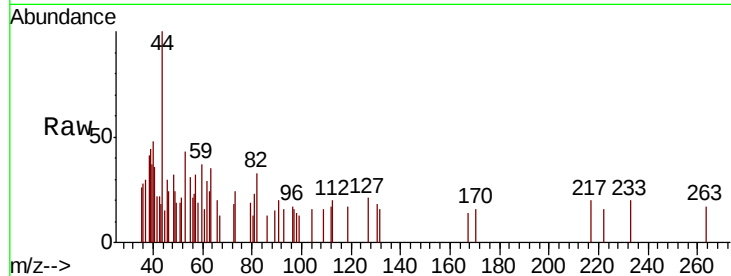
SU-01-011719-B

Tgt Ion: 56 Resp: 142

Ion Ratio Lower Upper

56 100

55 83.1 52.9 79.3#



#16

Acetone

Concen: 63.522 ug/l

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW008359.D

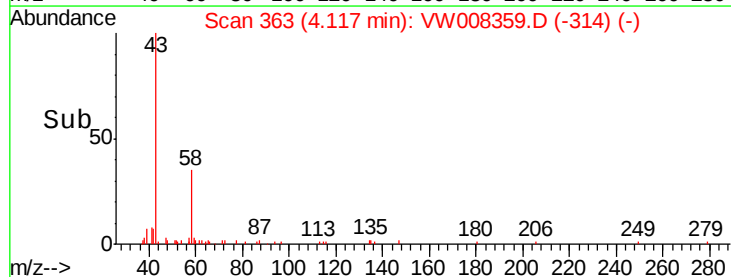
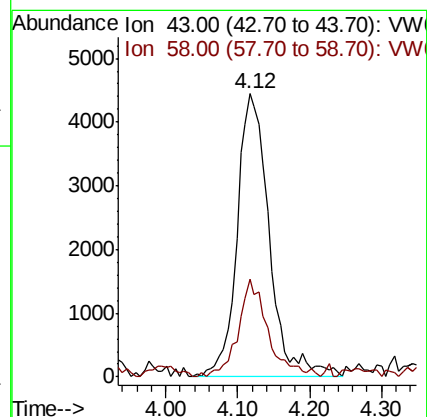
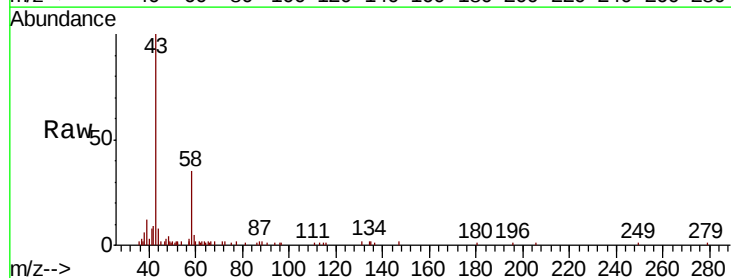
Acq: 18 Jan 2019 16:36

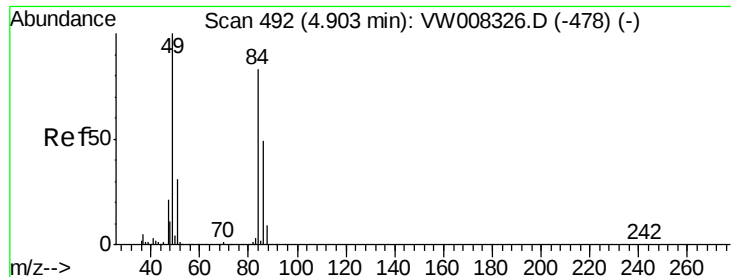
Tgt Ion: 43 Resp: 13776

Ion Ratio Lower Upper

43 100

58 33.2 24.7 37.1

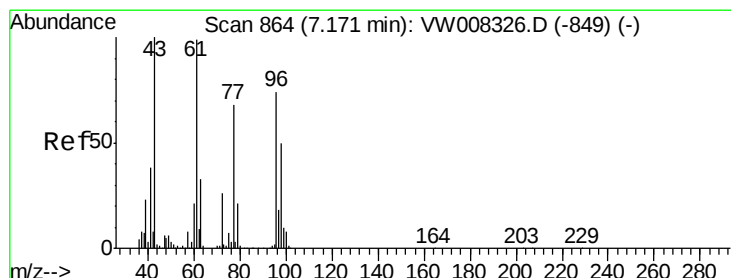
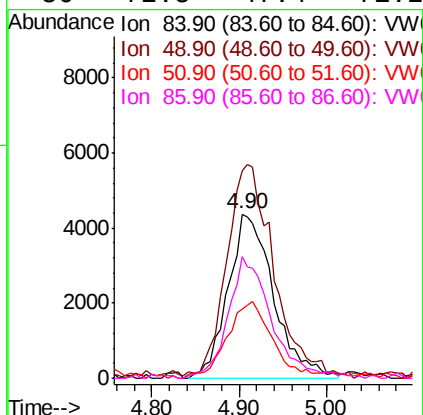
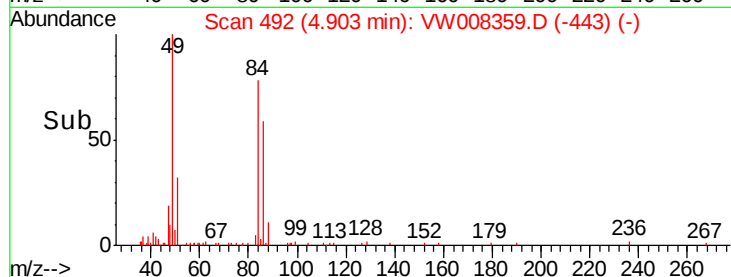
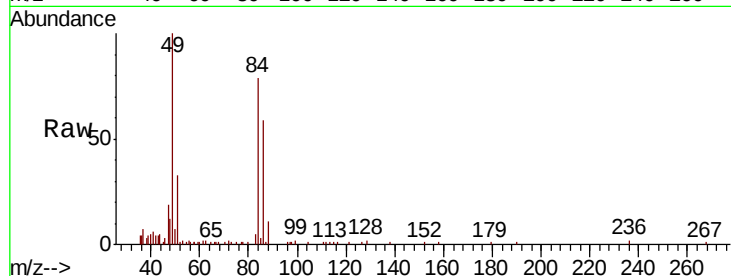




#20
Methylene Chloride
Concen: 13.162 ug/l
RT: 4.90 min Scan# 492
Delta R.T. 0.00 min
Lab File: VW008359.D
Acq: 18 Jan 2019 16:36

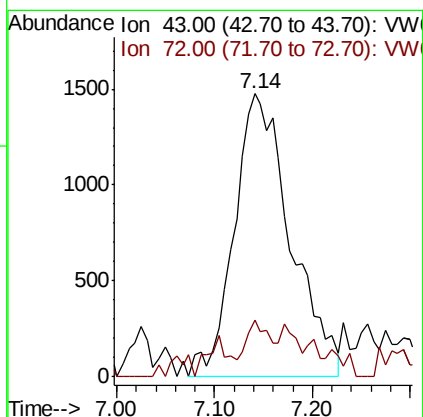
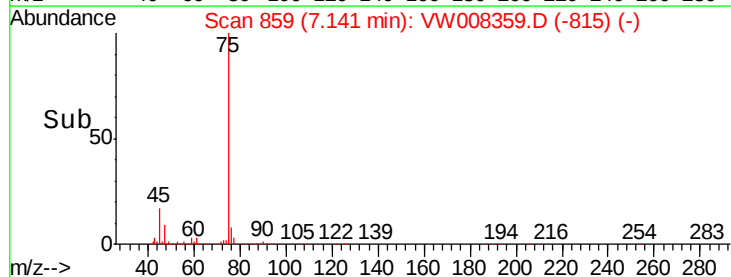
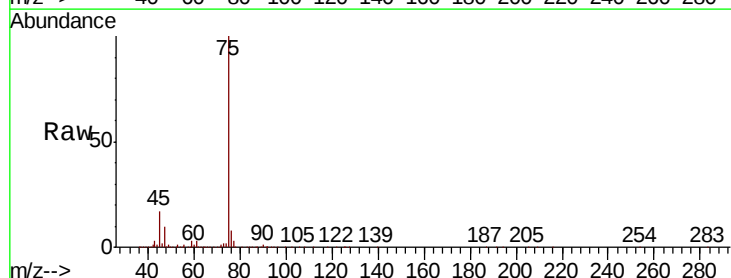
Instrument :
MSVOA_W
ClientSampleId :
SU-01-011719-B

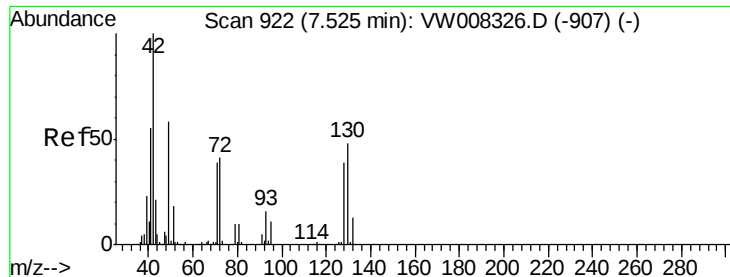
Tgt Ion: 84 Resp: 15875
Ion Ratio Lower Upper
84 100
49 122.9 95.9 143.9
51 39.9 29.3 43.9
86 72.5 47.4 71.2#



#25
2-Butanone
Concen: 21.298 ug/l
RT: 7.14 min Scan# 859
Delta R.T. -0.03 min
Lab File: VW008359.D
Acq: 18 Jan 2019 16:36

Tgt Ion: 43 Resp: 5916
Ion Ratio Lower Upper
43 100
72 12.4 21.2 31.8#

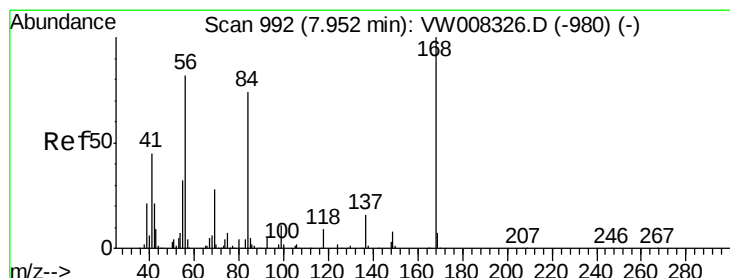
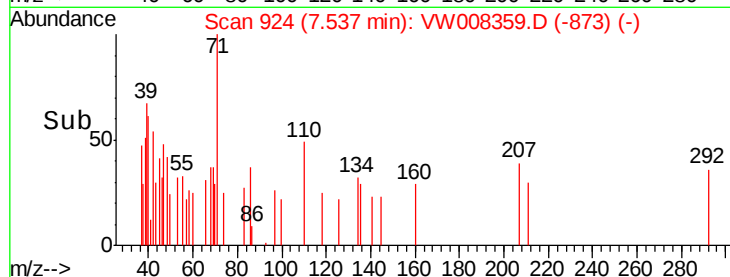
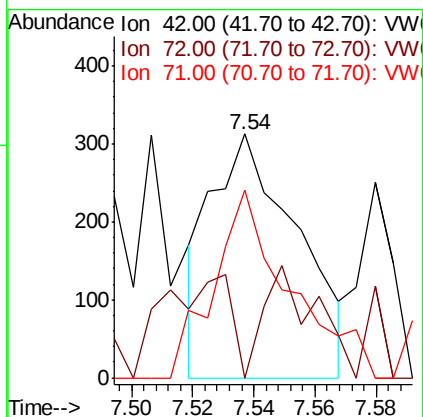
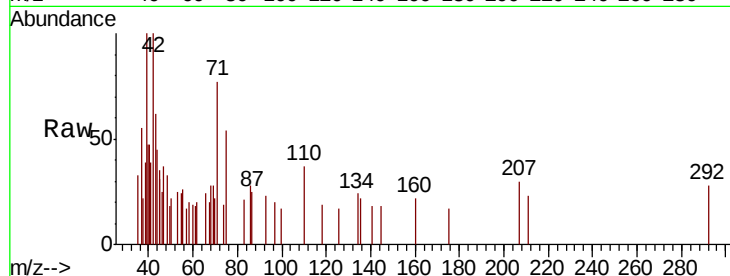




#29
Tetrahydrofuran
Concen: 3.540 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW008359.D
Acq: 18 Jan 2019 16:36

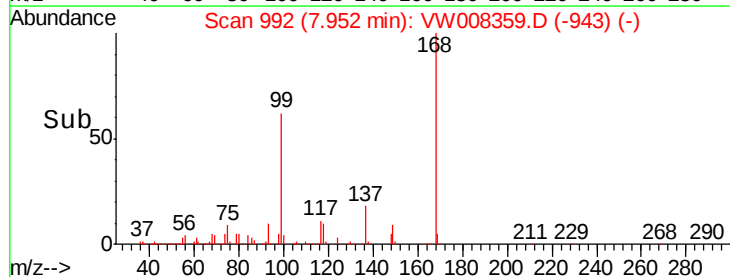
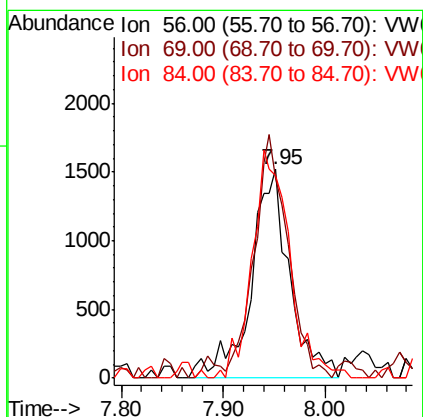
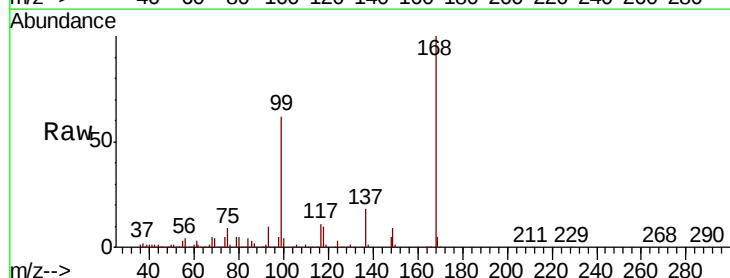
Instrument :
MSVOA_W
ClientSampleId :
SU-01-011719-B

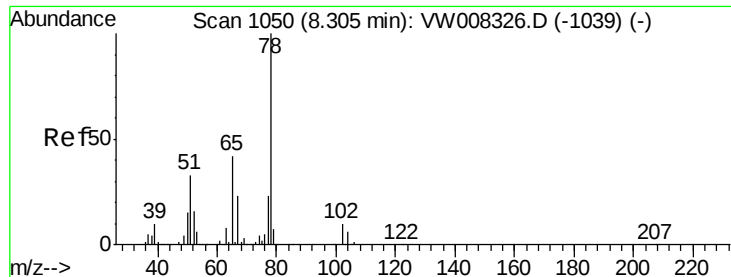
Tgt Ion: 42 Resp: 613
Ion Ratio Lower Upper
42 100
72 32.5 34.0 51.0#
71 67.5 32.0 48.0#



#31
Cyclohexane
Concen: 2.303 ug/l
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW008359.D
Acq: 18 Jan 2019 16:36

Tgt Ion: 56 Resp: 4016
Ion Ratio Lower Upper
56 100
69 95.7 27.0 40.6#
84 93.5 72.5 108.7





#33

1,2-Dichloroethane-d4

Concen: 59.887 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW008359.D

Acq: 18 Jan 2019 16:36

Instrument :

MSVOA_W

ClientSampleId :

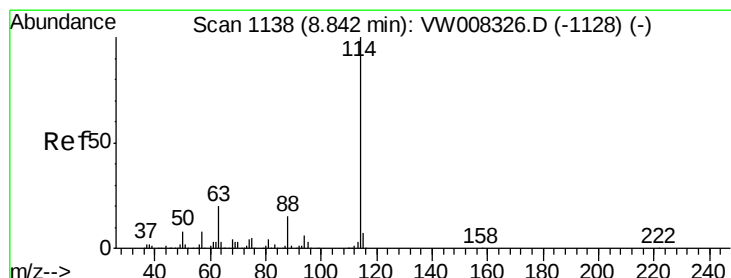
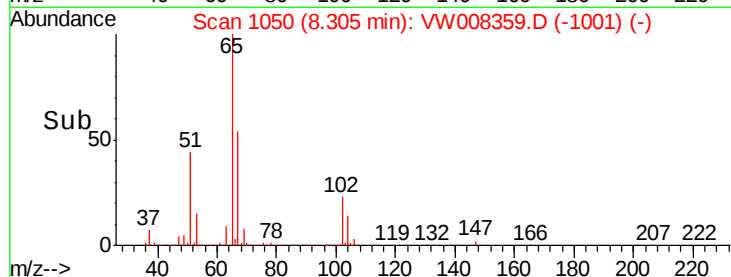
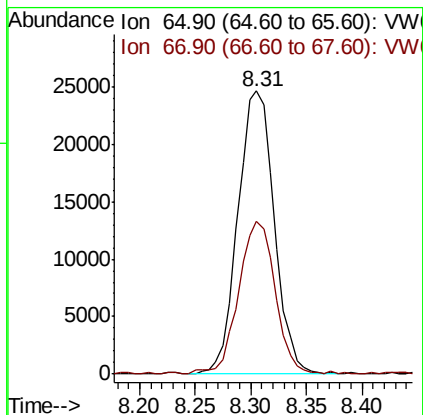
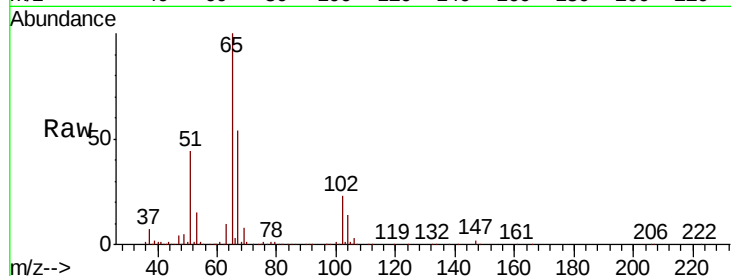
SU-01-011719-B

Tgt Ion: 65 Resp: 55924

Ion Ratio Lower Upper

65 100

67 54.4 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW008359.D

Acq: 18 Jan 2019 16:36

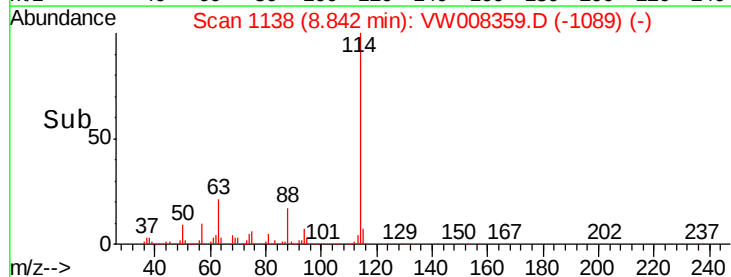
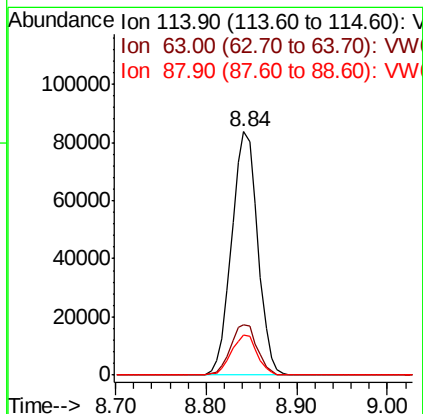
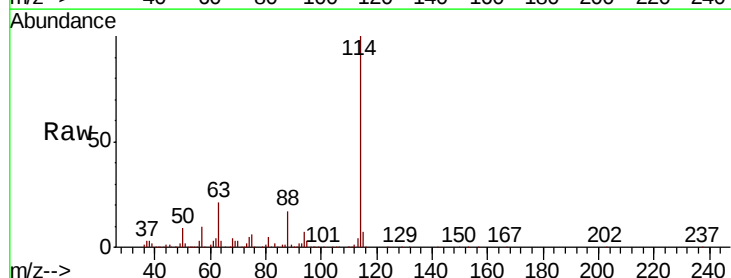
Tgt Ion: 114 Resp: 166702

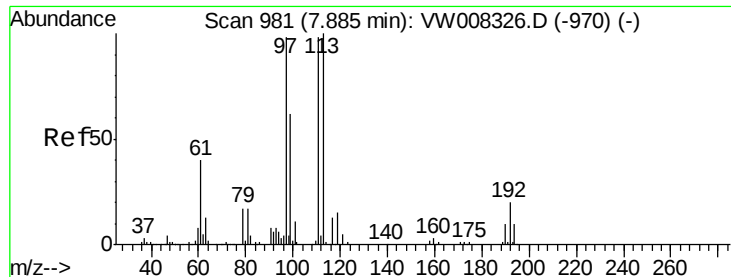
Ion Ratio Lower Upper

114 100

63 20.7 0.0 40.8

88 16.6 0.0 30.4





#35

Dibromofluoromethane

Concen: 50.587 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW008359.D

Acq: 18 Jan 2019 16:36

Instrument :

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SU-01-011719-B

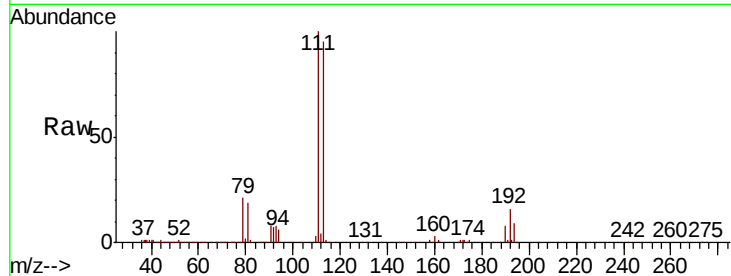
Tgt Ion:113 Resp: 53830

Ion Ratio Lower Upper

113 100

111 107.0 81.8 122.8

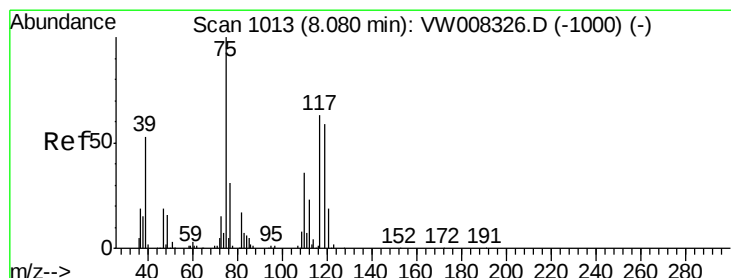
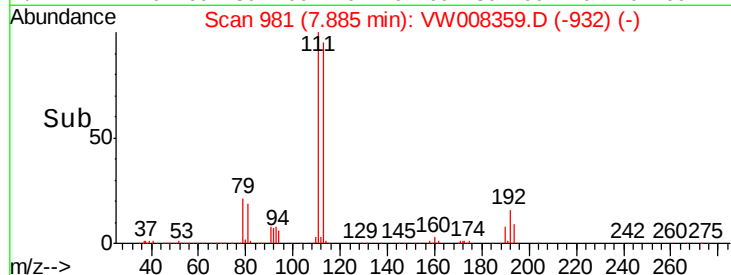
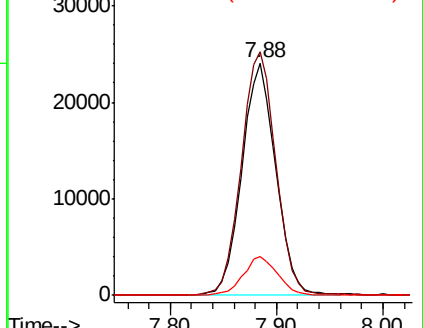
192 17.0 16.3 24.5



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: 4.843 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.13 min

Lab File: VW008359.D

Acq: 18 Jan 2019 16:36

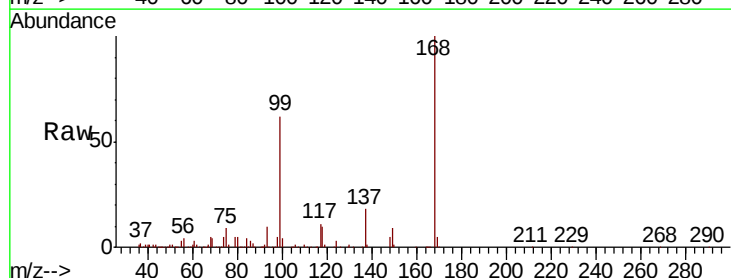
Tgt Ion: 75 Resp: 8122

Ion Ratio Lower Upper

75 100

110 11.2 17.5 52.6#

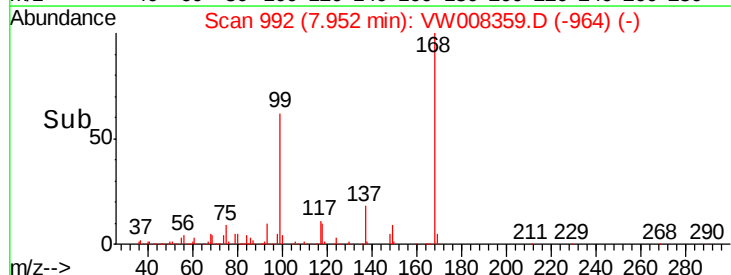
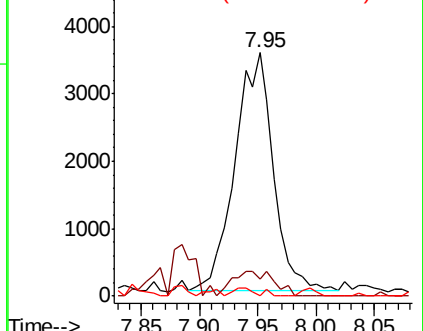
77 1.6 25.0 37.6#

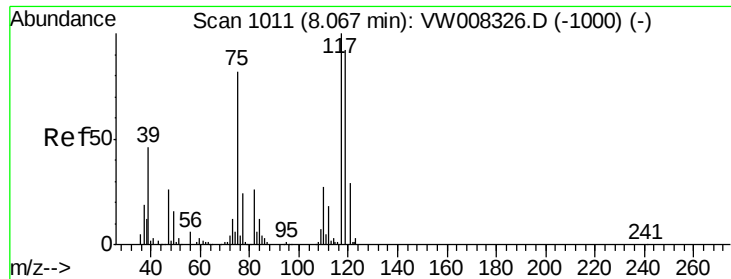


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 6.115 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW008359.D

Acq: 18 Jan 2019 16:36

Instrument :

MSVOA_W

ClientSampleId :

SU-01-011719-B

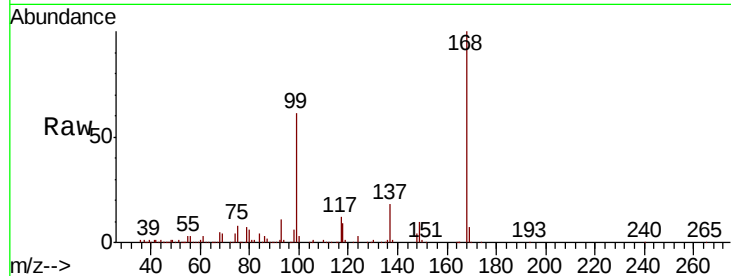
Tgt Ion:117 Resp: 10127

Ion Ratio Lower Upper

117 100

119 6.7 73.8 110.6#

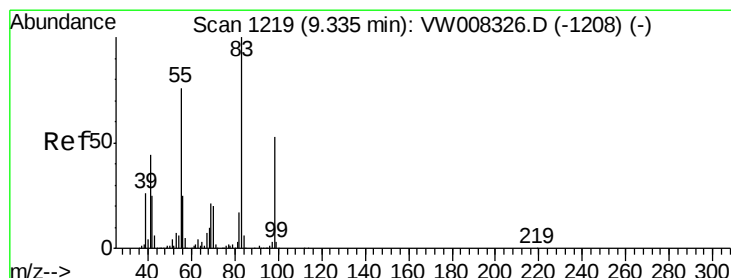
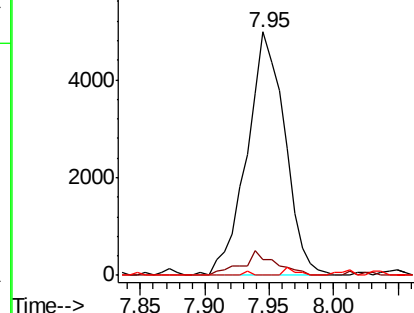
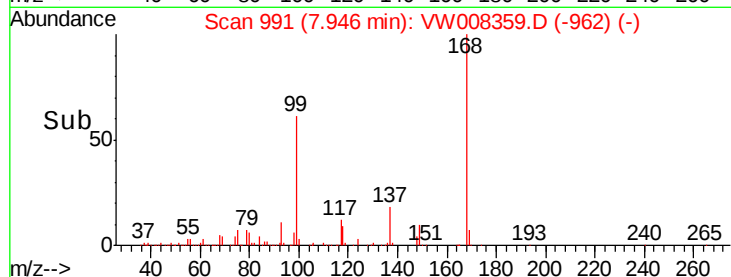
121 0.0 23.4 35.0#



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



#39

Methylcyclohexane

Concen: 1.163 ug/l

RT: 9.33 min Scan# 1218

Delta R.T. -0.01 min

Lab File: VW008359.D

Acq: 18 Jan 2019 16:36

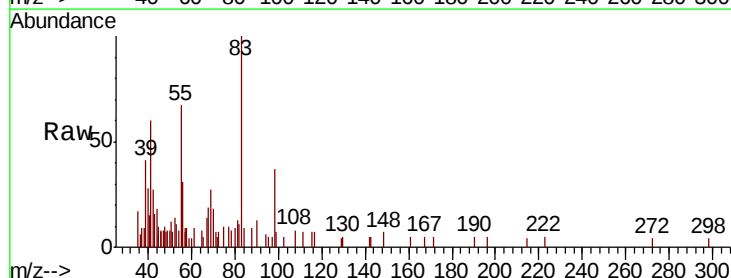
Tgt Ion: 83 Resp: 2320

Ion Ratio Lower Upper

83 100

55 67.3 61.1 91.7

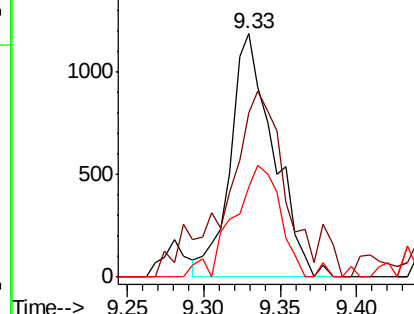
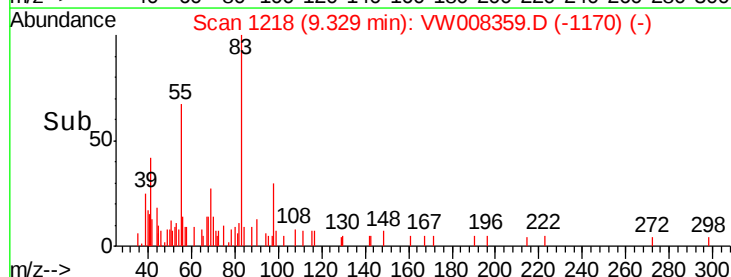
98 37.0 42.5 63.7#

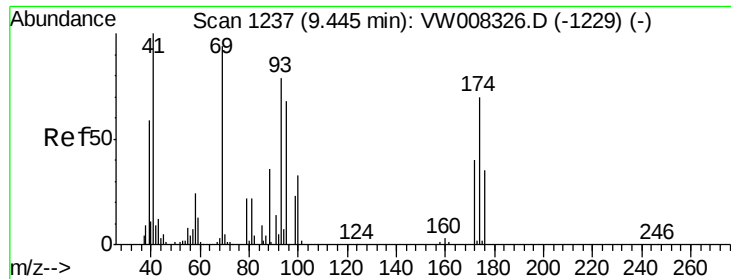


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW

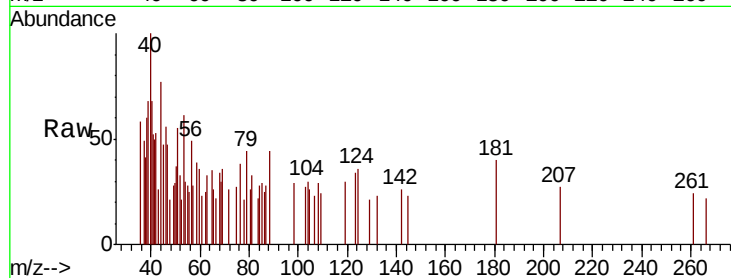




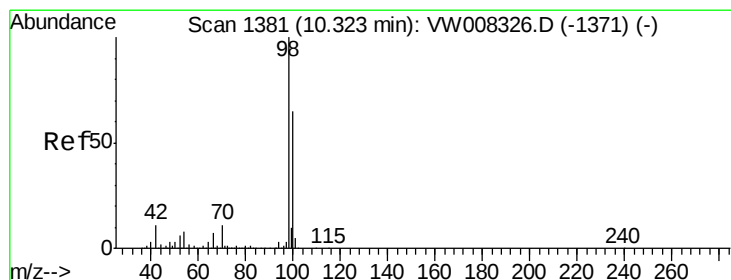
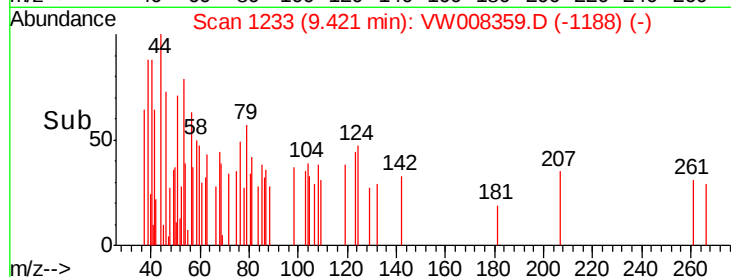
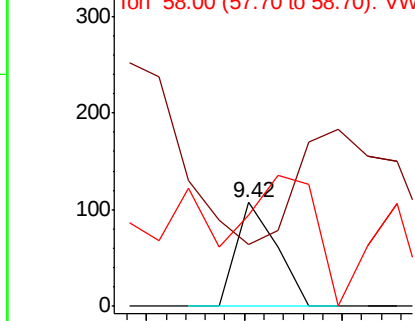
#49
1,4-Dioxane
Concen: 6.161 ug/l
RT: 9.42 min Scan# 1233
Delta R.T. -0.02 min
Lab File: VW008359.D
Acq: 18 Jan 2019 16:36

Instrument :
MSVOA_W
ClientSampleId :
SU-01-011719-B

Tgt Ion: 88 Resp: 61
Ion Ratio Lower Upper
88 100
43 583.6 27.1 40.7#
58 213.1 57.9 86.9#

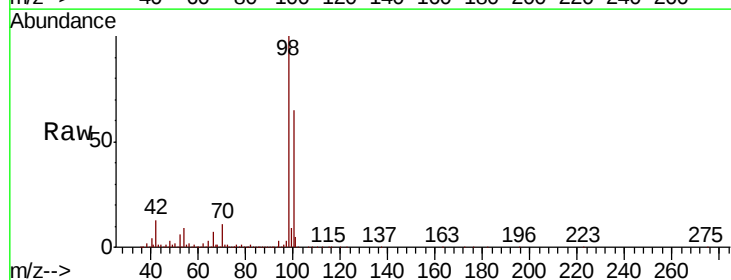


Abundance Ion 88.00 (87.70 to 88.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW

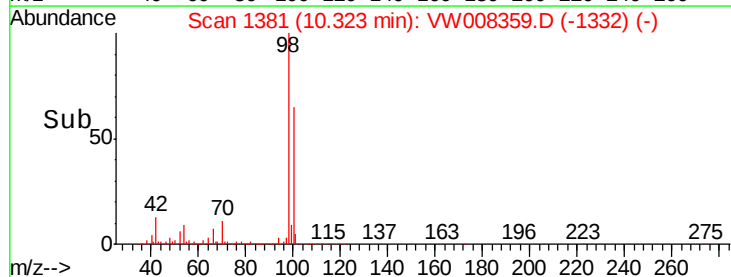
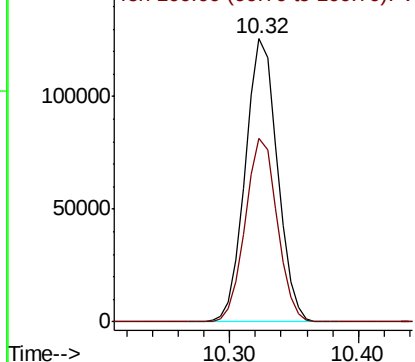


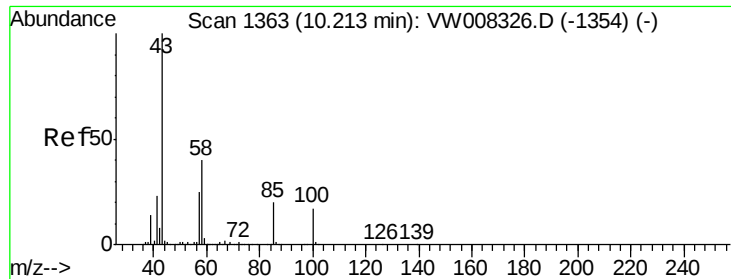
#50
Toluene-d8
Concen: 51.654 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW008359.D
Acq: 18 Jan 2019 16:36

Tgt Ion: 98 Resp: 215935
Ion Ratio Lower Upper
98 100
100 64.4 51.8 77.8



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

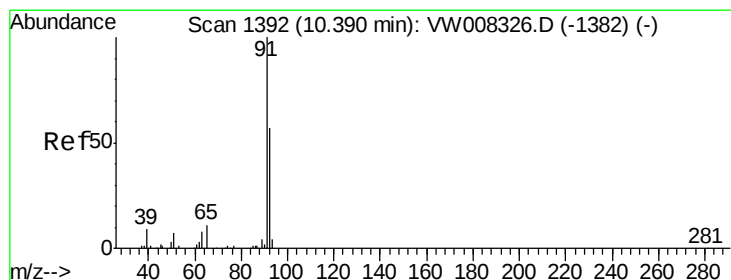
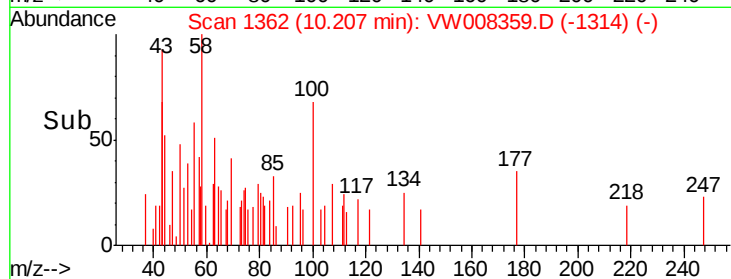
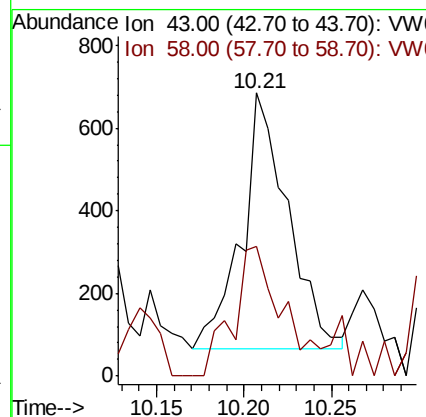
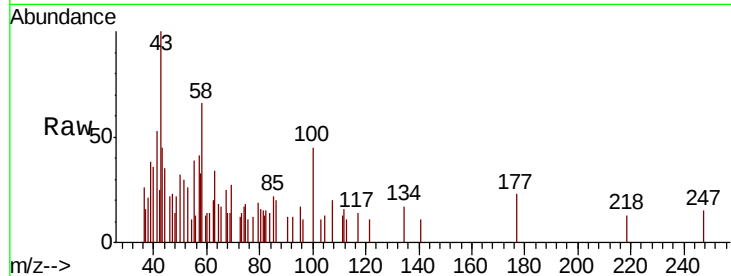




#51
4-Methyl-2-Pentanone
Concen: 1.708 ug/l
RT: 10.21 min Scan# 1362
Delta R.T. -0.01 min
Lab File: VW008359.D
Acq: 18 Jan 2019 16:36

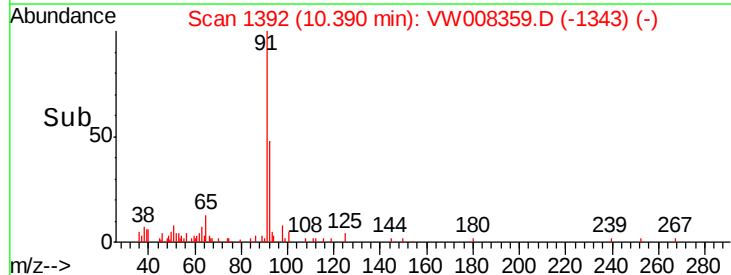
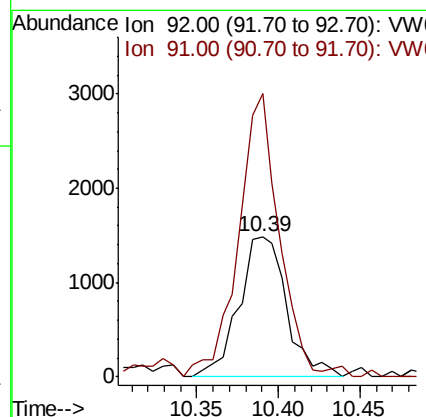
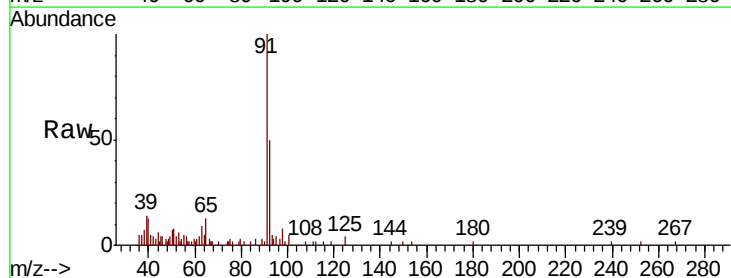
Instrument :
MSVOA_W
ClientSampleId :
SU-01-011719-B

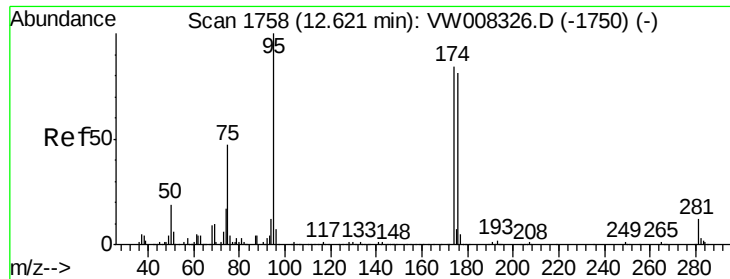
Tgt Ion: 43 Resp: 1130
Ion Ratio Lower Upper
43 100
58 54.9 31.4 47.0#



#52
Toluene
Concen: 1.008 ug/l
RT: 10.39 min Scan# 1392
Delta R.T. 0.00 min
Lab File: VW008359.D
Acq: 18 Jan 2019 16:36

Tgt Ion: 92 Resp: 3031
Ion Ratio Lower Upper
92 100
91 170.7 140.2 210.2

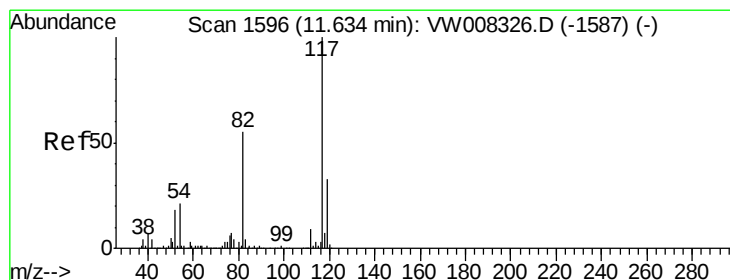
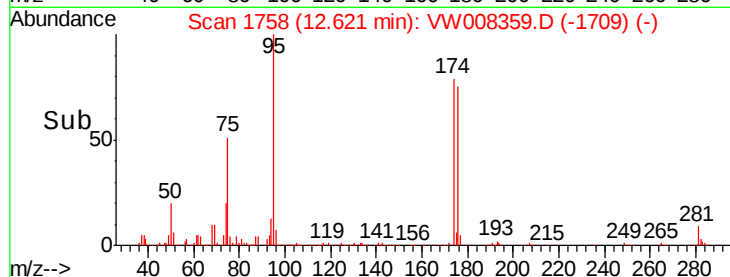
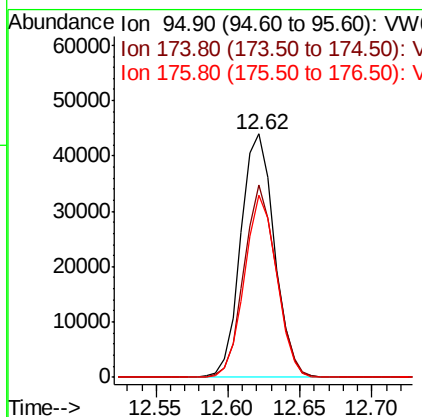
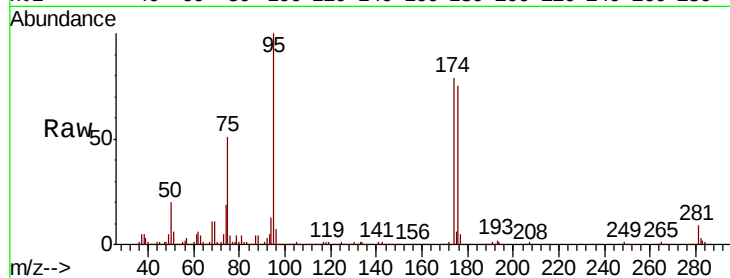




#62
4-Bromofluorobenzene
Concen: 47.131 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.00 min
Lab File: VW008359.D
Acq: 18 Jan 2019 16:36

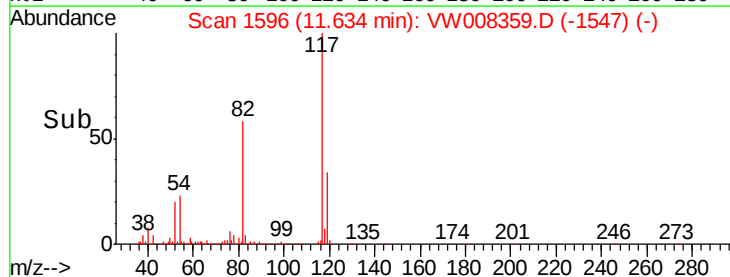
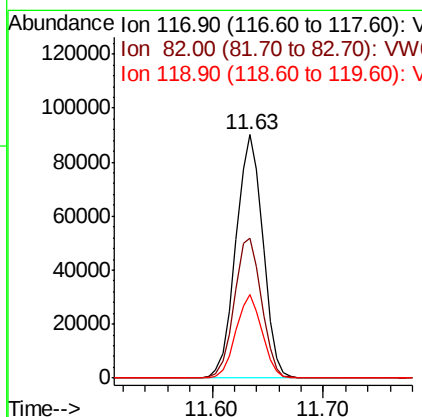
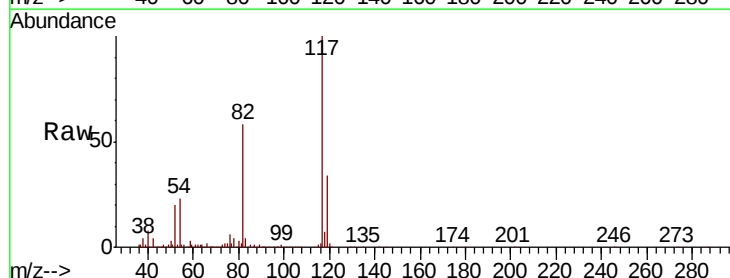
Instrument :
MSVOA_W
ClientSampleId :
SU-01-011719-B

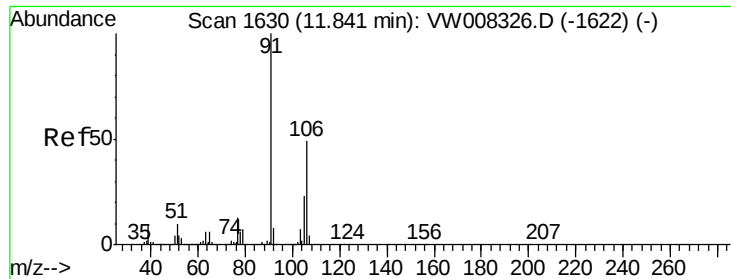
Tgt Ion: 95 Resp: 70664
Ion Ratio Lower Upper
95 100
174 76.5 0.0 166.0
176 72.1 0.0 160.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW008359.D
Acq: 18 Jan 2019 16:36

Tgt Ion: 117 Resp: 151165
Ion Ratio Lower Upper
117 100
82 57.5 44.3 66.5
119 34.3 26.3 39.5

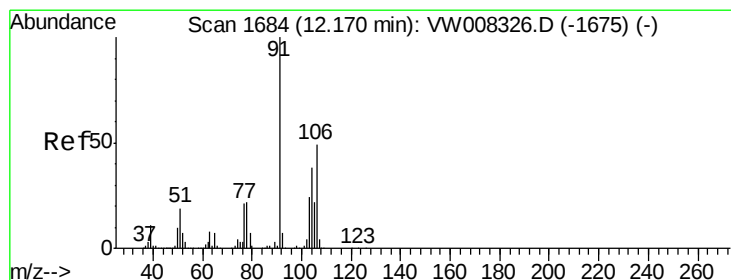
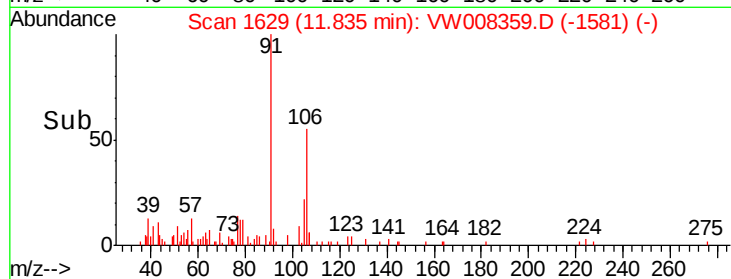
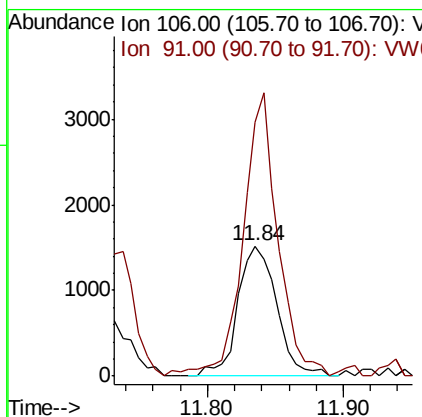
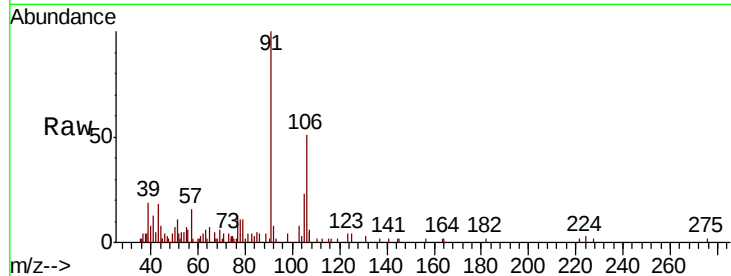




#68
m/p-Xylenes
Concen: 1.370 ug/l
RT: 11.84 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW008359.D
Acq: 18 Jan 2019 16:36

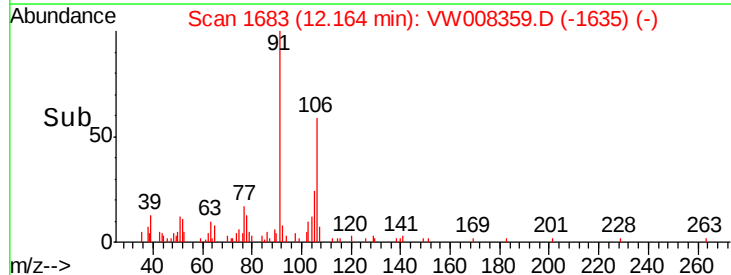
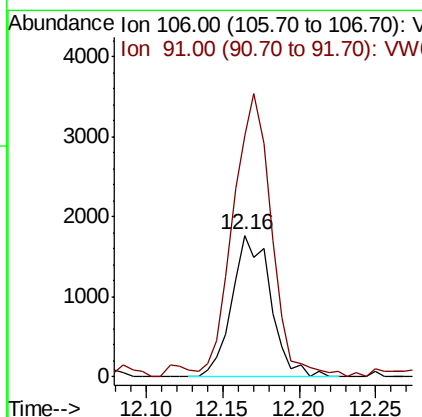
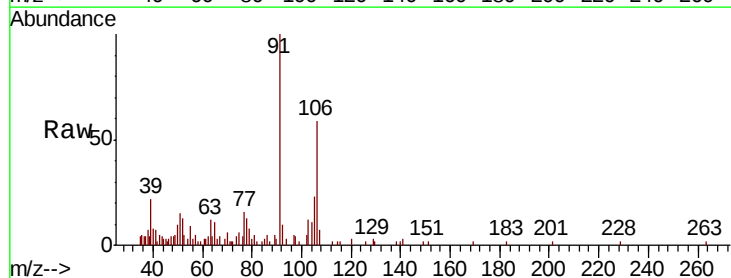
Instrument :
MSVOA_W
ClientSampleId :
SU-01-011719-B

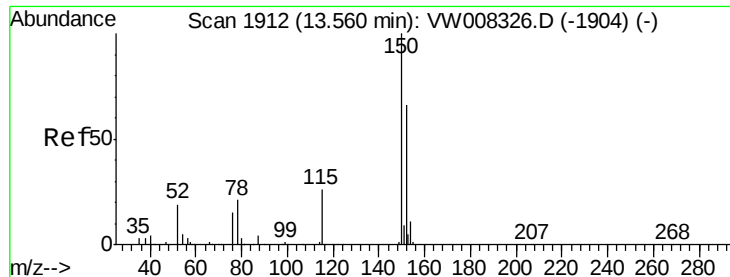
Tgt Ion:106 Resp: 3044
Ion Ratio Lower Upper
106 100
91 194.0 158.4 237.6



#69
o-Xylene
Concen: 1.486 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.01 min
Lab File: VW008359.D
Acq: 18 Jan 2019 16:36

Tgt Ion:106 Resp: 3085
Ion Ratio Lower Upper
106 100
91 199.8 104.1 312.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW008359.D

Acq: 18 Jan 2019 16:36

Instrument :

MSVOA_W

ClientSampleId :

SU-01-011719-B

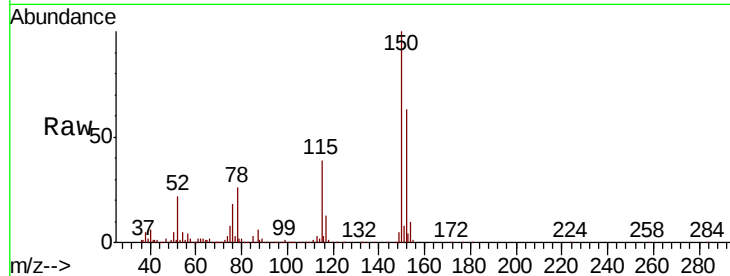
Tgt Ion:152 Resp: 70919

Ion Ratio Lower Upper

152 100

115 59.9 28.8 86.4

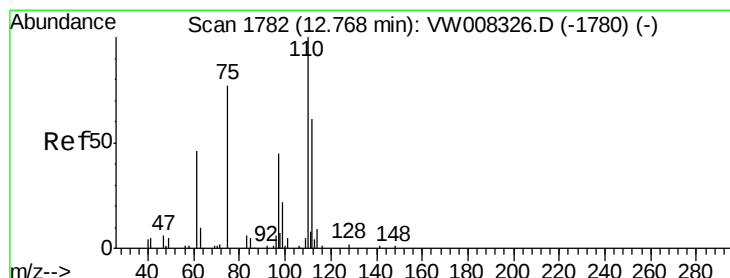
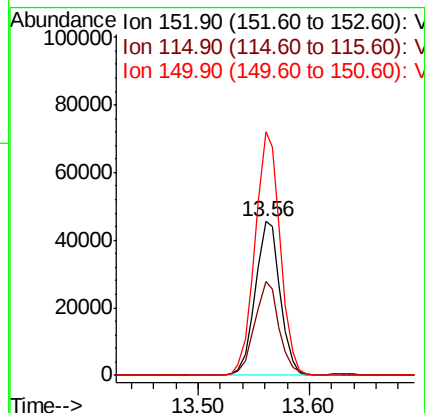
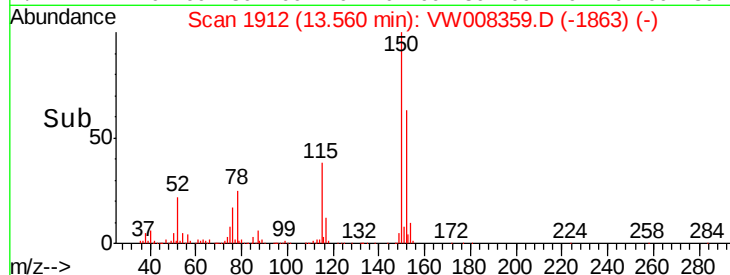
150 159.6 0.0 351.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 56.783 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW008359.D

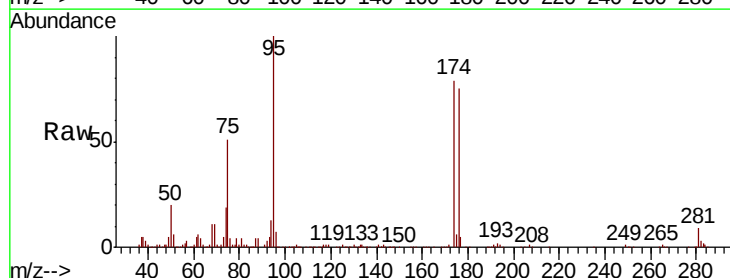
Acq: 18 Jan 2019 16:36

Tgt Ion: 75 Resp: 36672

Ion Ratio Lower Upper

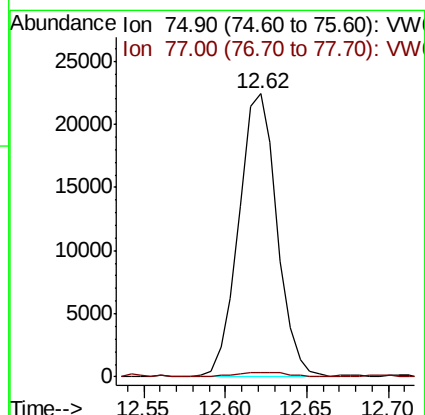
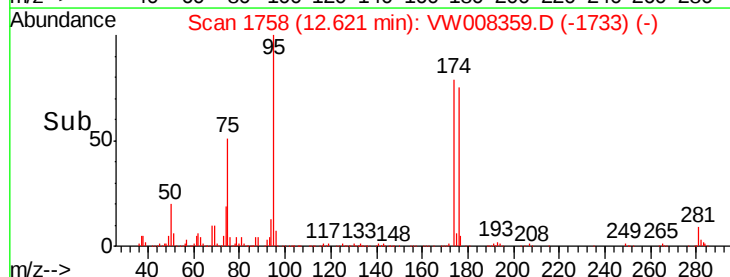
75 100

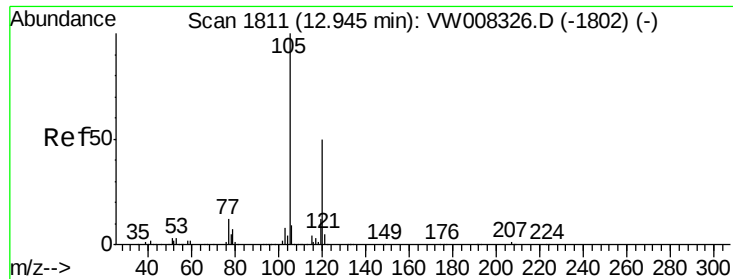
77 2.1 175.3 526.1#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

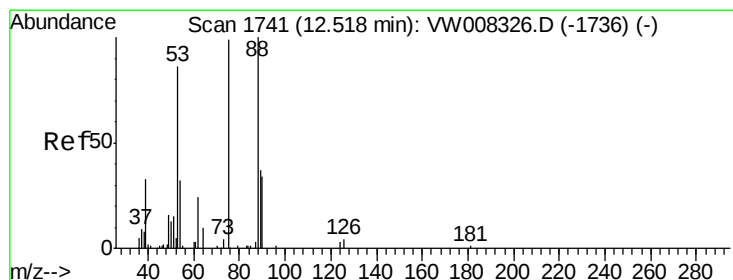
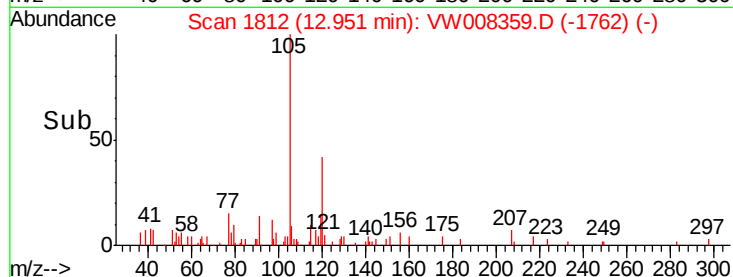
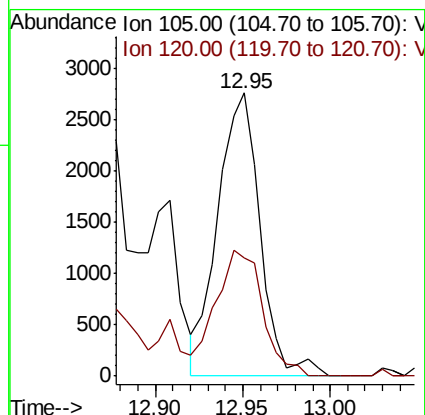
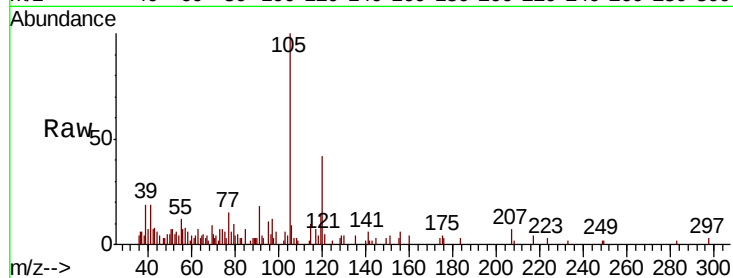




#80
 1,3,5-Trimethylbenzene
 Concen: 1.079 ug/l
 RT: 12.95 min Scan# 1812
 Delta R.T. 0.01 min
 Lab File: VW008359.D
 Acq: 18 Jan 2019 16:36

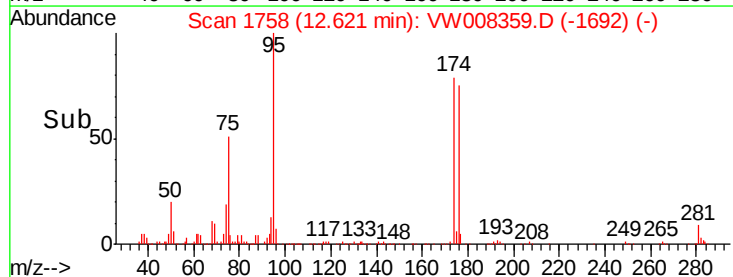
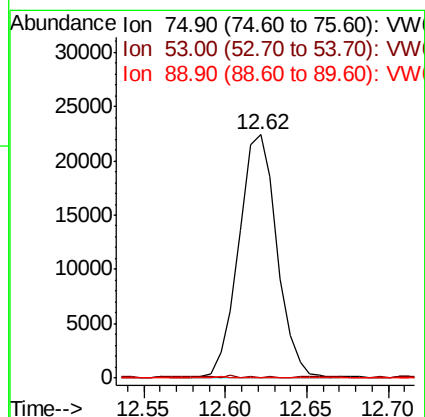
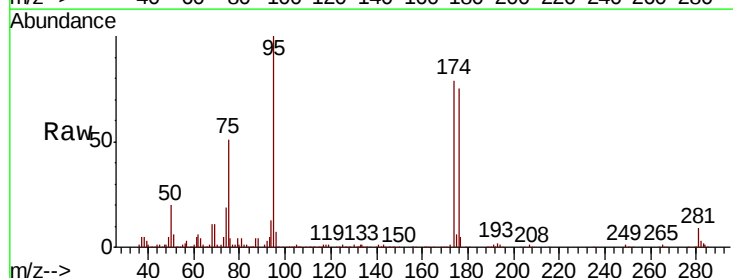
Instrument :
 MSVOA_W
 ClientSampleId :
 SU-01-011719-B

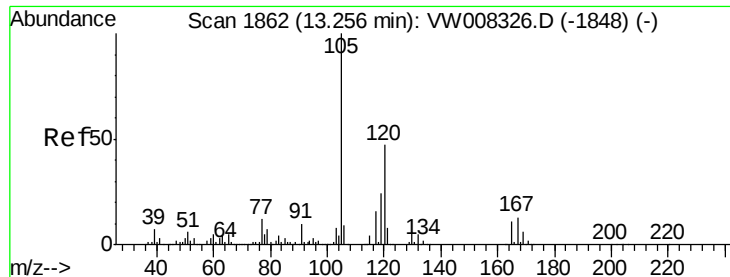
Tgt Ion: 105 Resp: 4651
 Ion Ratio Lower Upper
 105 100
 120 49.2 25.6 76.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 135.508 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.10 min
 Lab File: VW008359.D
 Acq: 18 Jan 2019 16:36

Tgt Ion: 75 Resp: 36672
 Ion Ratio Lower Upper
 75 100
 53 0.3 76.2 114.4#
 89 0.2 36.7 55.1#

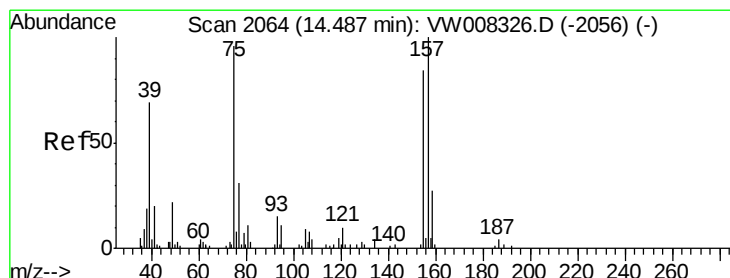
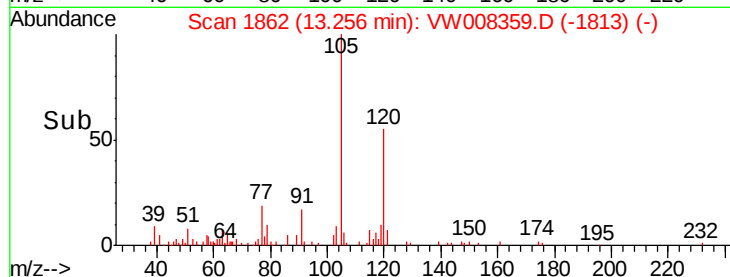
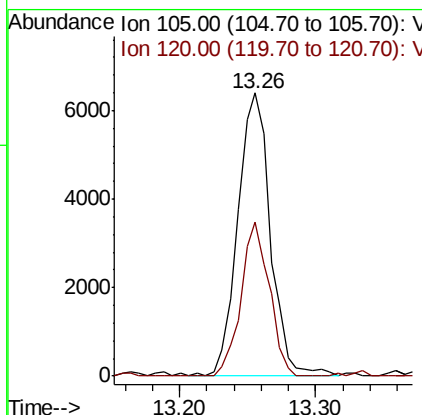
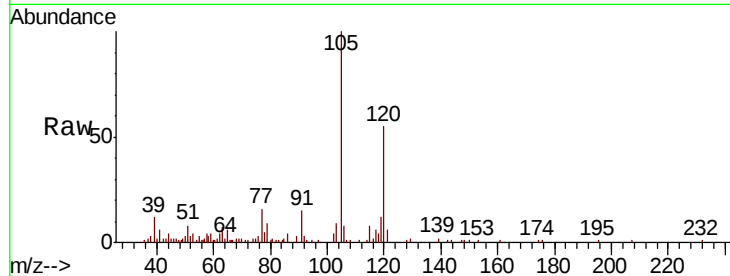




#84
 1,2,4-Trimethylbenzene
 Concen: 2.437 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. 0.00 min
 Lab File: VW008359.D
 Acq: 18 Jan 2019 16:36

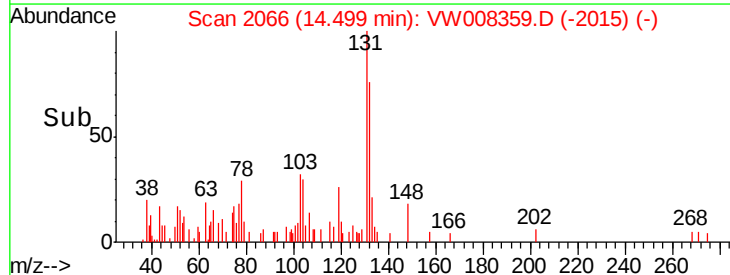
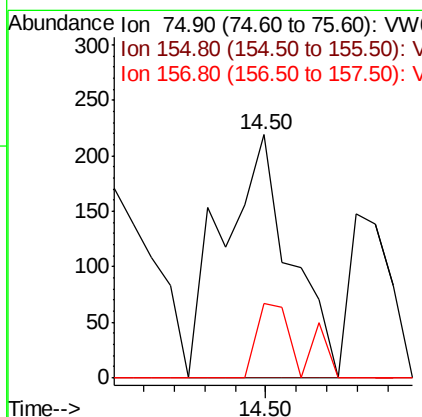
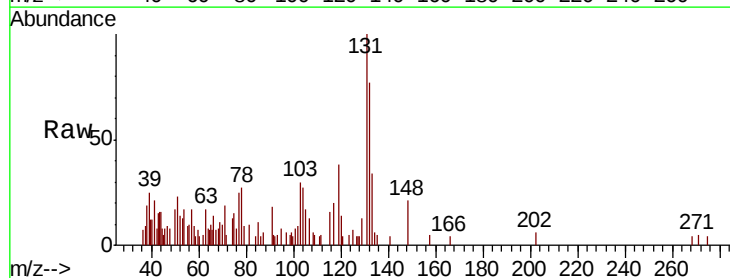
Instrument :
 MSVOA_W
 ClientSampleId :
 SU-01-011719-B

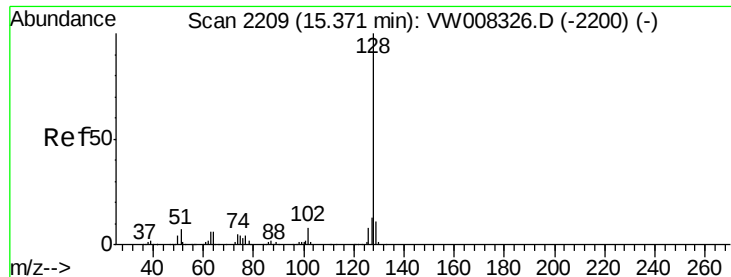
Tgt Ion: 105 Resp: 10703
 Ion Ratio Lower Upper
 105 100
 120 47.2 23.5 70.6



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.338 ug/l
 RT: 14.50 min Scan# 2066
 Delta R.T. 0.01 min
 Lab File: VW008359.D
 Acq: 18 Jan 2019 16:36

Tgt Ion: 75 Resp: 336
 Ion Ratio Lower Upper
 75 100
 155 0.0 44.7 134.1#
 157 19.6 53.9 161.8#





#95
Naphthalene
Concen: 582.457 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VW008359.D
Acq: 18 Jan 2019 16:36

Instrument :
MSVOA_W
ClientSampleId :
SU-01-011719-B

Tgt Ion:128 Resp: 1656375
Ion Ratio Lower Upper
128 100
127 13.7 10.5 15.7
129 11.0 8.8 13.2

