

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW012119\
 Data File : VW008379.D
 Acq On : 21 Jan 2019 17:00
 Operator : SY/VA
 Sample : K1009-07
 Misc : 6.34G/5ML/MSVOA_W/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 CL-01-011819-D

Quant Time: Jan 22 03:42:26 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

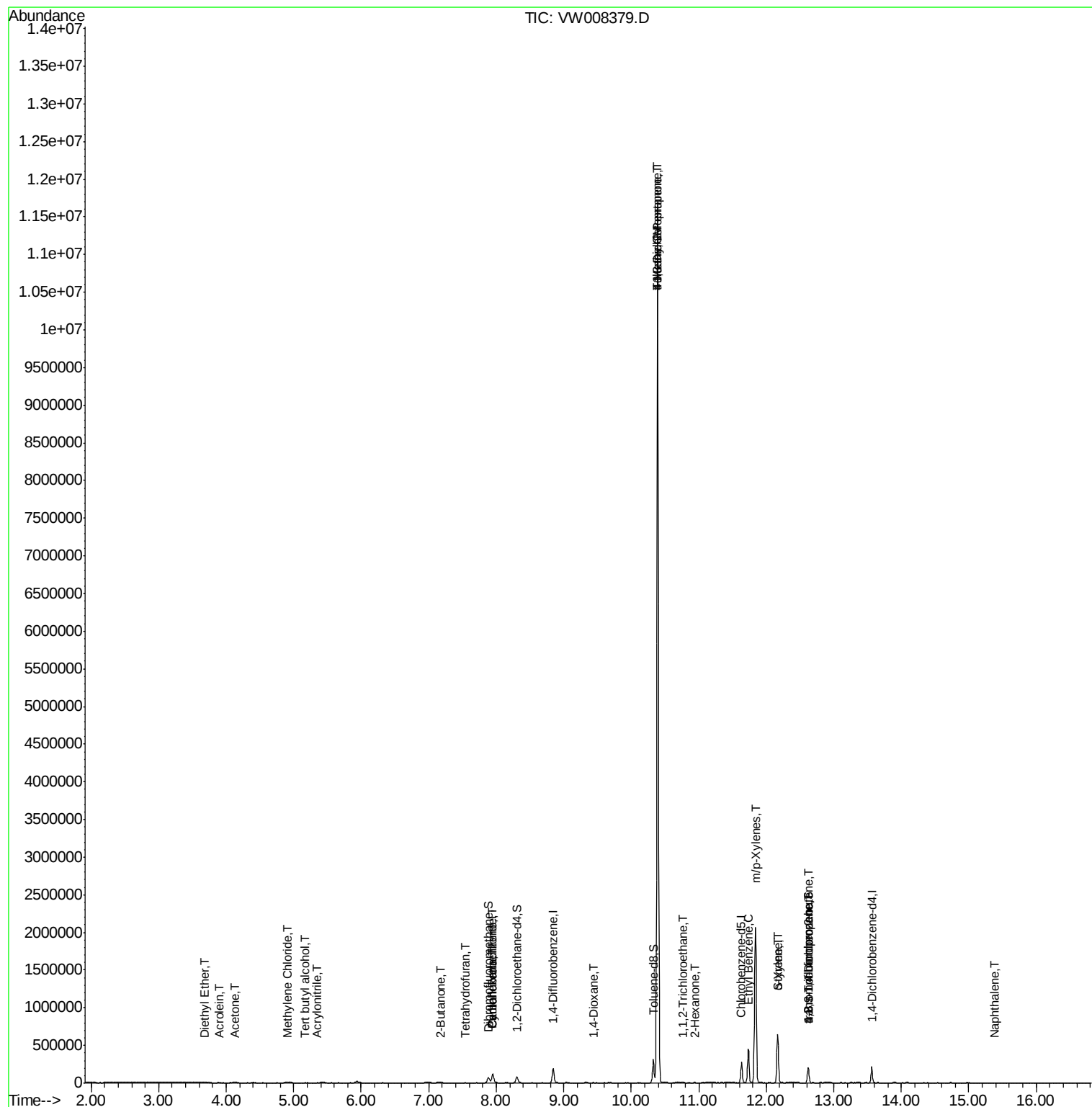
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	84209	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	159663	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	147585	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	53545	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	56027	63.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	127.92%	
35) Dibromofluoromethane	7.88	113	53376	52.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.74%	
50) Toluene-d8	10.33	98	206223	51.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.02%	
62) 4-Bromofluorobenzene	12.62	95	66077	46.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.02%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.68	74	1242	2.455	ug/l	50
11) Tert butyl alcohol	5.16	59	162	2.747	ug/l #	69
13) Acrolein	3.90	56	188	10.752	ug/l #	69
15) Acrylonitrile	5.34	53	487	2.505	ug/l #	30
16) Acetone	4.12	43	15304	75.229	ug/l	97
20) Methylene Chloride	4.90	84	5357	2.289	ug/l #	79
25) 2-Butanone	7.18	43	2088	8.014	ug/l	92
29) Tetrahydrofuran	7.54	42	720	4.433	ug/l #	87
31) Cyclohexane	7.95	56	2397	1.465	ug/l #	1
38) Carbon Tetrachloride	7.95	117	8975	5.658	ug/l #	21
49) 1,4-Dioxane	9.44	88	60	6.327	ug/l #	1
51) 4-Methyl-2-Pentanone	10.39	43	55840	88.133	ug/l #	37
52) Toluene	10.39	92	4536208	1575.293	ug/l	96
53) t-1,3-Dichloropropene	10.39	75	55736	38.431	ug/l #	1
55) 1,1,2-Trichloroethane	10.76	97	1891	2.314	ug/l #	21
59) 2-Hexanone	10.94	43	933	2.102	ug/l	77
67) Ethyl Benzene	11.73	91	306257	54.791	ug/l	97
68) m/p-Xylenes	11.84	106	638164	294.147	ug/l	98
69) o-Xylene	12.17	106	171408	84.566	ug/l	98
70) Styrene	12.17	104	9768	3.000	ug/l #	1
76) 1,2,3-Trichloropropane	12.62	75	32904	67.480	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	32904	161.036	ug/l #	12
95) Naphthalene	15.38	128	768	2.686	ug/l #	84

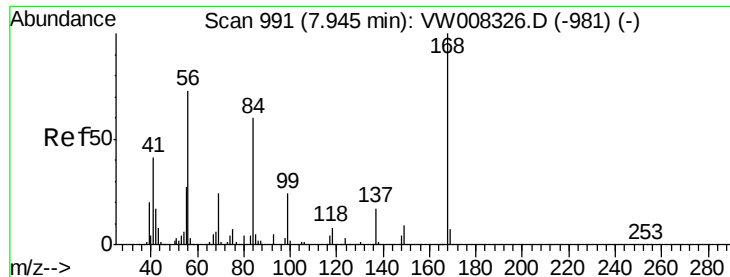
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW008379.D

Acq: 21 Jan 2019 17:00

Instrument :

MSVOA_W

ClientSampleId :

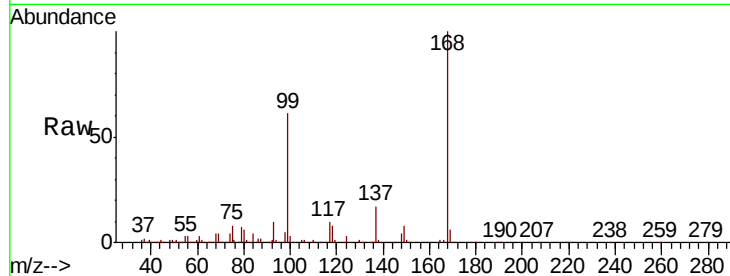
CL-01-011819-D

Tgt Ion:168 Resp: 84209

Ion Ratio Lower Upper

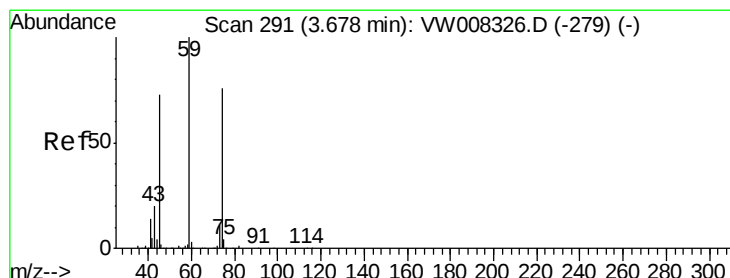
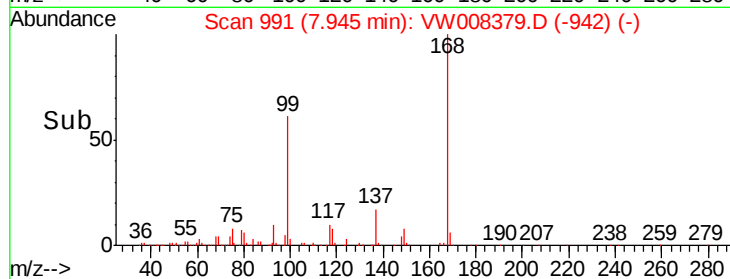
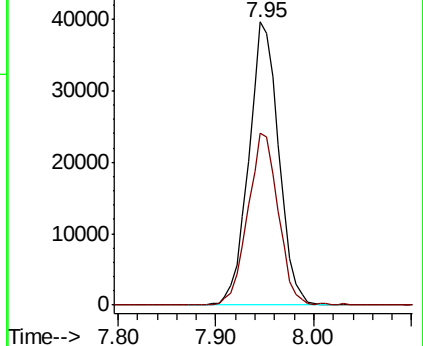
168 100

99 60.6 44.6 66.8



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 2.455 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.00 min

Lab File: VW008379.D

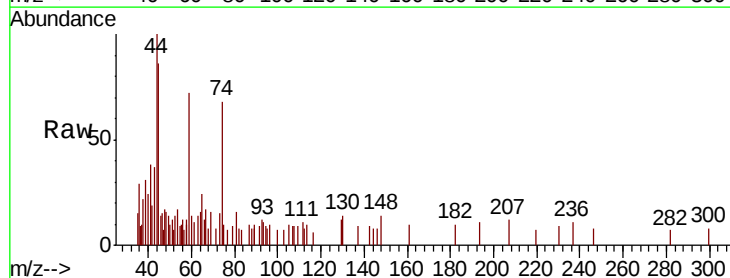
Acq: 21 Jan 2019 17:00

Tgt Ion: 74 Resp: 1242

Ion Ratio Lower Upper

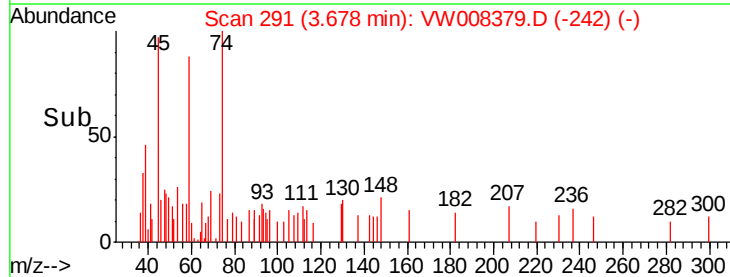
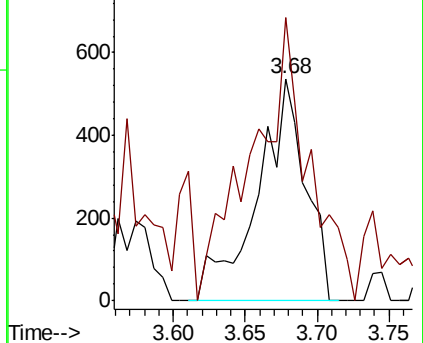
74 100

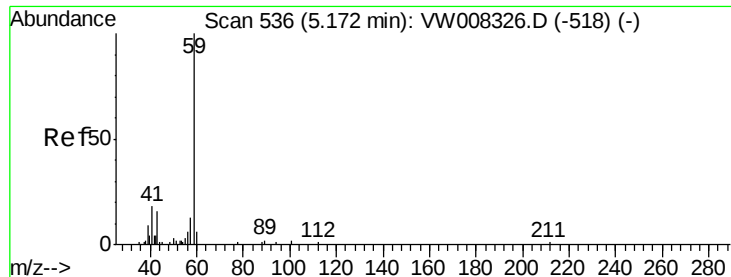
45 150.2 50.1 150.3



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW



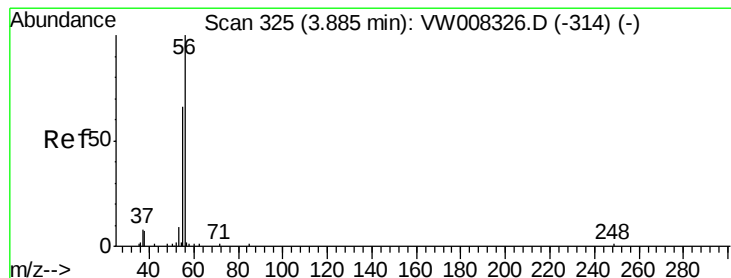
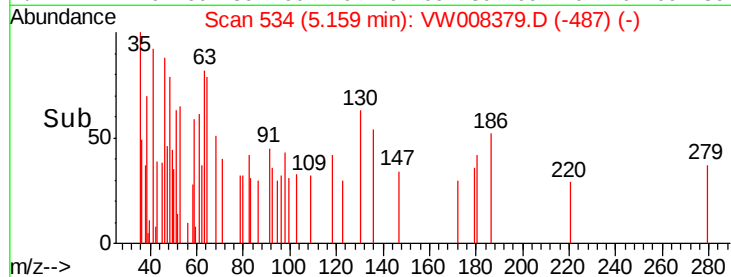
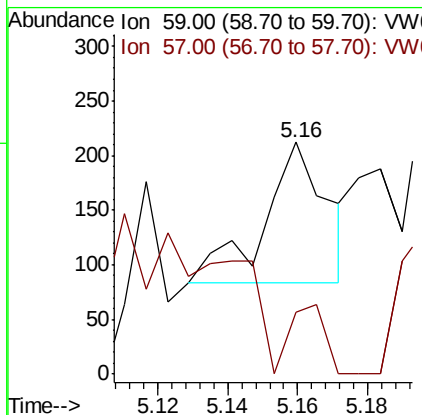
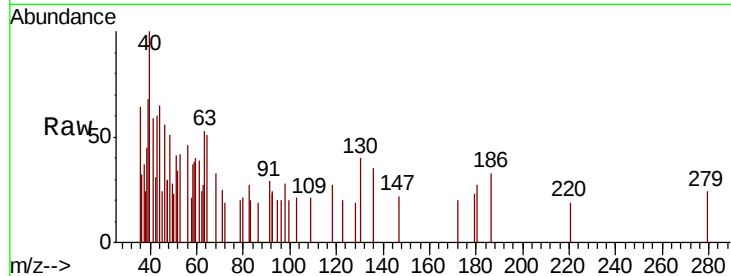


#11

Tert butyl alcohol
Concen: 2.747 ug/l
RT: 5.16 min Scan# 534
Delta R.T. -0.01 min
Lab File: VW008379.D
Acq: 21 Jan 2019 17:00

Instrument :
MSVOA_W
ClientSampled :
CL-01-011819-D

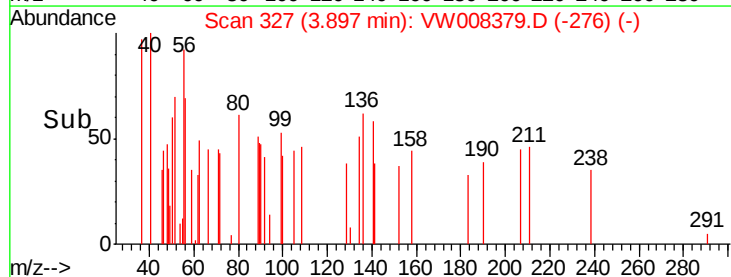
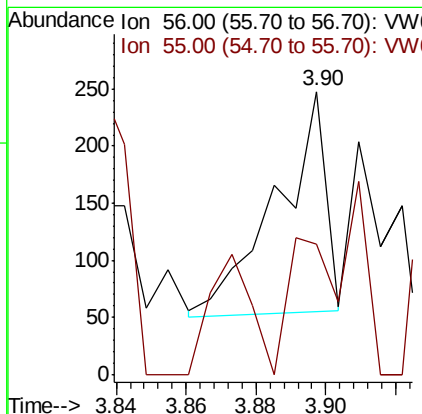
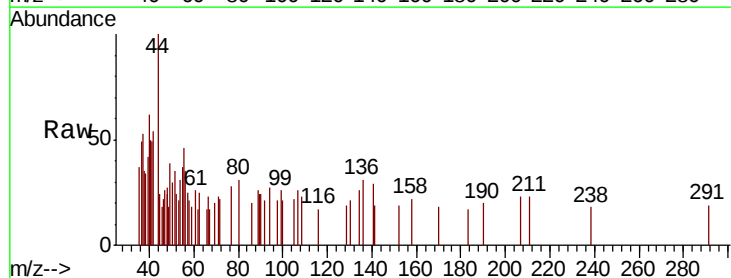
Tgt Ion: 59 Resp: 162
Ion Ratio Lower Upper
59 100
57 0.0 9.4 14.2#

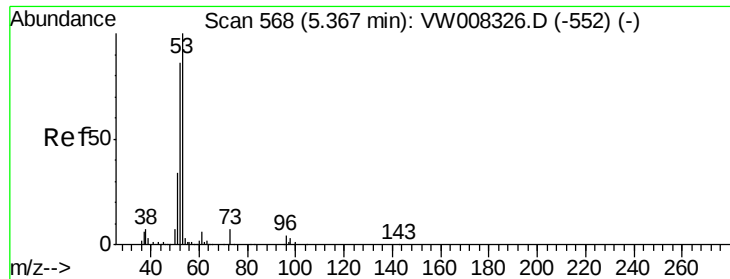


#13

Acrolein
Concen: 10.752 ug/l
RT: 3.90 min Scan# 327
Delta R.T. 0.01 min
Lab File: VW008379.D
Acq: 21 Jan 2019 17:00

Tgt Ion: 56 Resp: 188
Ion Ratio Lower Upper
56 100
55 91.0 52.9 79.3#

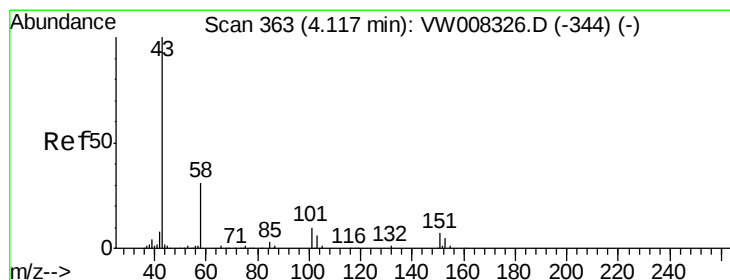
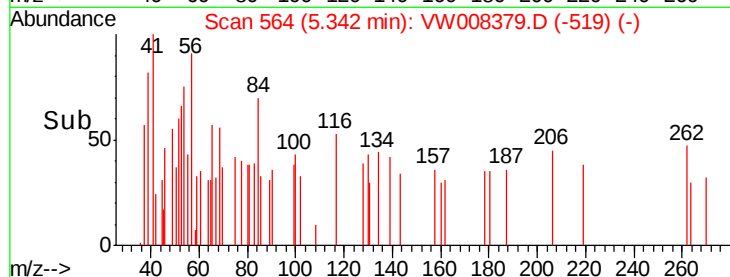
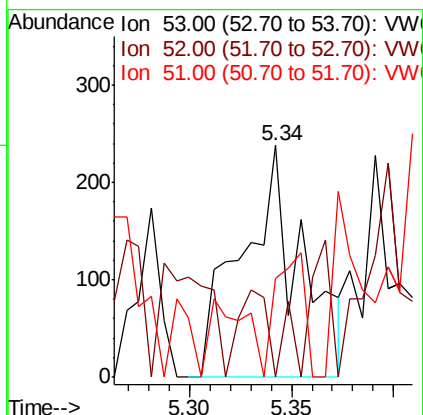
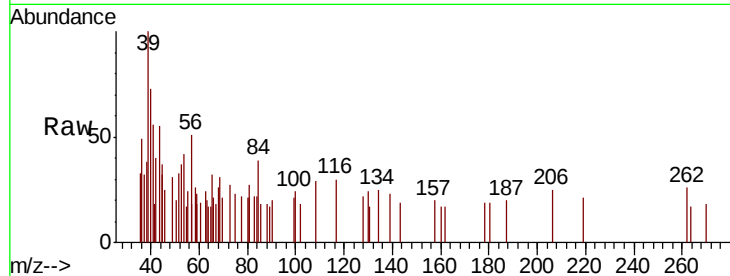




#15
Acrylonitrile
Concen: 2.505 ug/l
RT: 5.34 min Scan# 564
Delta R.T. -0.02 min
Lab File: VW008379.D
Acq: 21 Jan 2019 17:00

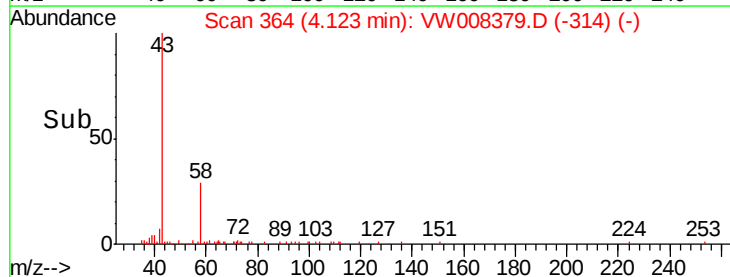
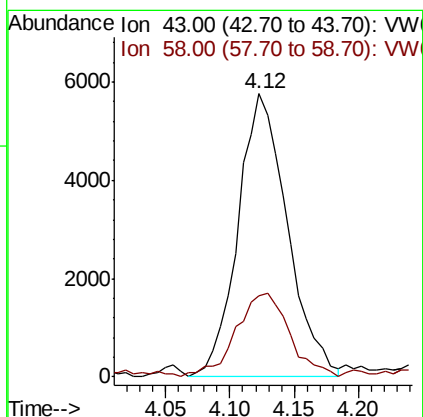
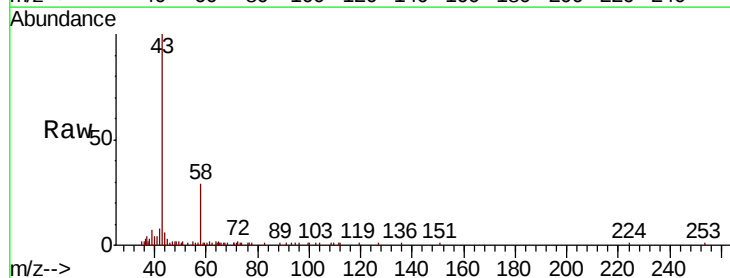
Instrument :
MSVOA_W
ClientSampleId :
CL-01-011819-D

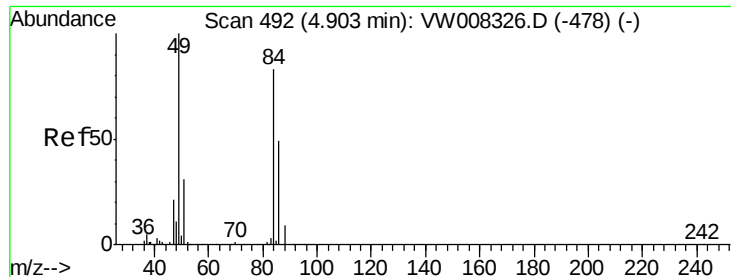
Tgt Ion: 53 Resp: 487
Ion Ratio Lower Upper
53 100
52 0.0 66.4 99.6#
51 25.7 29.6 44.4#



#16
Acetone
Concen: 75.229 ug/l
RT: 4.12 min Scan# 364
Delta R.T. 0.01 min
Lab File: VW008379.D
Acq: 21 Jan 2019 17:00

Tgt Ion: 43 Resp: 15304
Ion Ratio Lower Upper
43 100
58 29.5 24.7 37.1

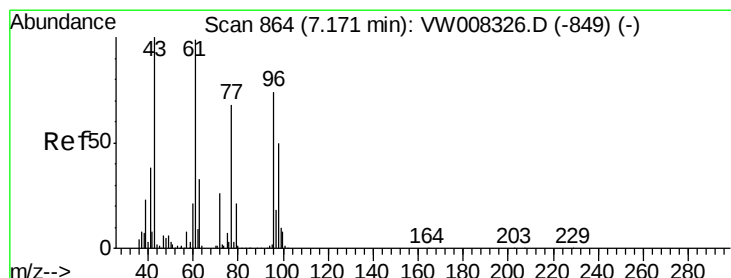
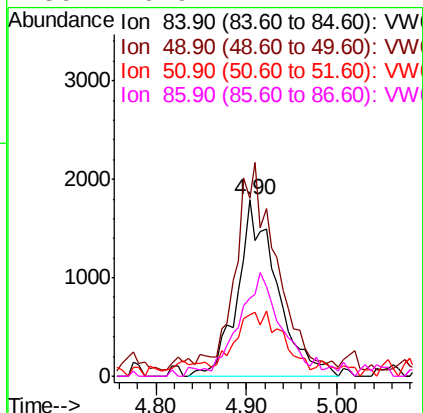
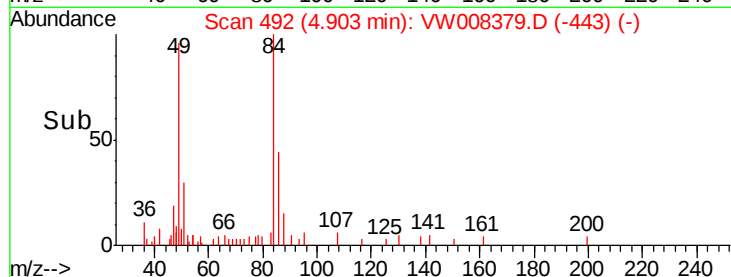
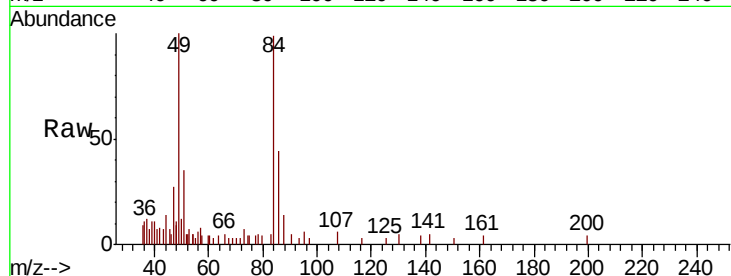




#20
Methylene Chloride
Concen: 2.289 ug/l
RT: 4.90 min Scan# 492
Delta R.T. 0.00 min
Lab File: VW008379.D
Acq: 21 Jan 2019 17:00

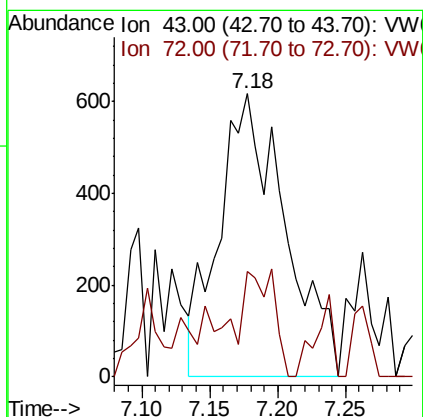
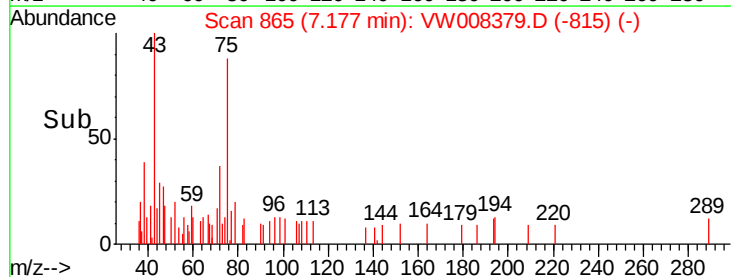
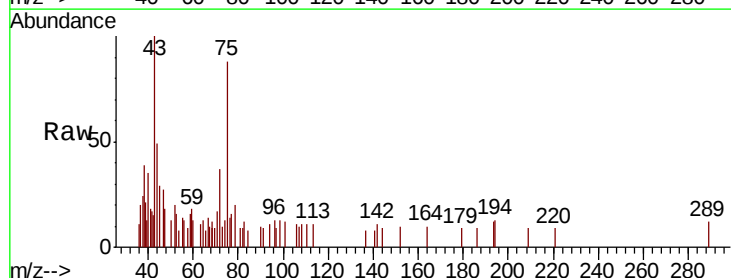
Instrument :
MSVOA_W
ClientSampleId :
CL-01-011819-D

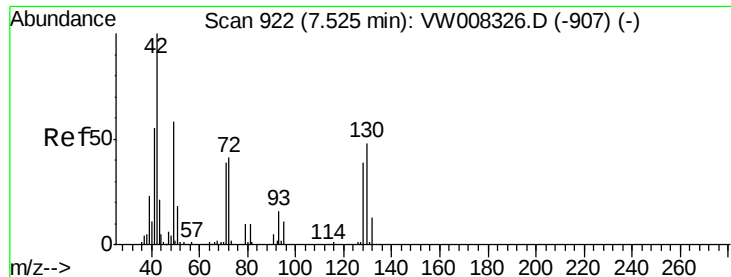
Tgt Ion: 84 Resp: 5357
Ion Ratio Lower Upper
84 100
49 95.6 95.9 143.9#
51 30.4 29.3 43.9
86 40.9 47.4 71.2#



#25
2-Butanone
Concen: 8.014 ug/l
RT: 7.18 min Scan# 865
Delta R.T. 0.01 min
Lab File: VW008379.D
Acq: 21 Jan 2019 17:00

Tgt Ion: 43 Resp: 2088
Ion Ratio Lower Upper
43 100
72 22.4 21.2 31.8

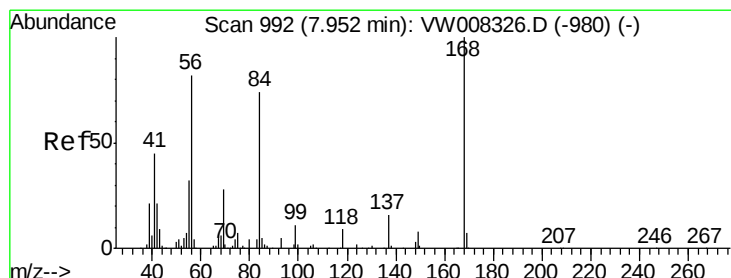
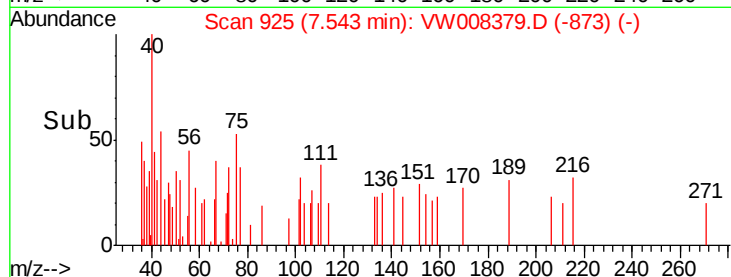
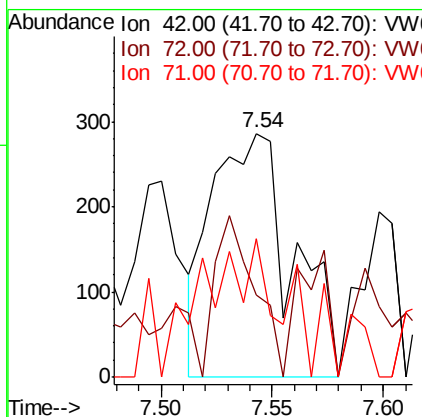
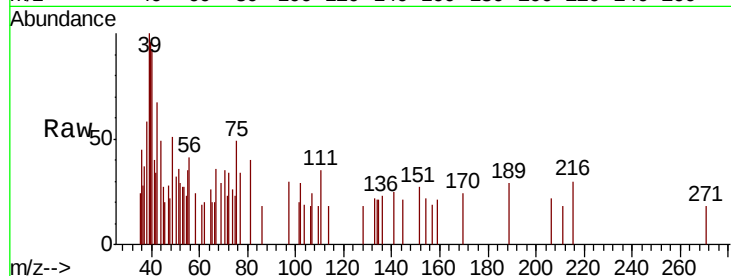




#29
Tetrahydrofuran
Concen: 4.433 ug/l
RT: 7.54 min Scan# 925
Delta R.T. 0.02 min
Lab File: VW008379.D
Acq: 21 Jan 2019 17:00

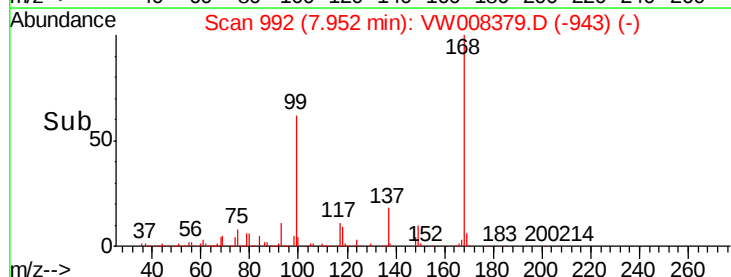
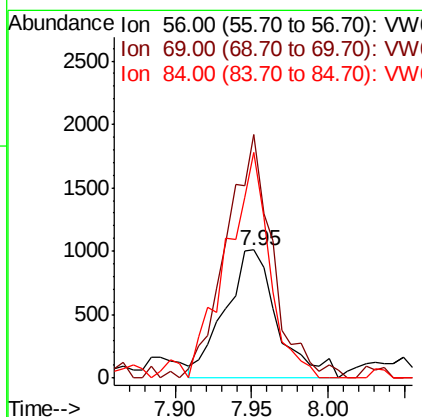
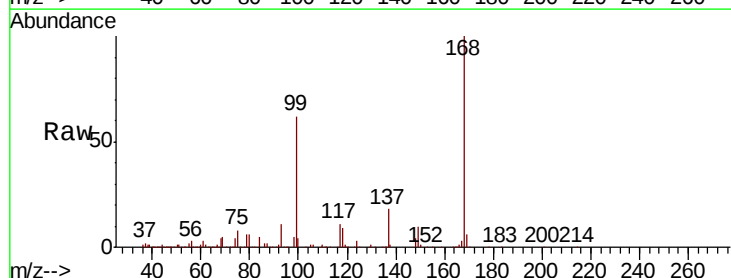
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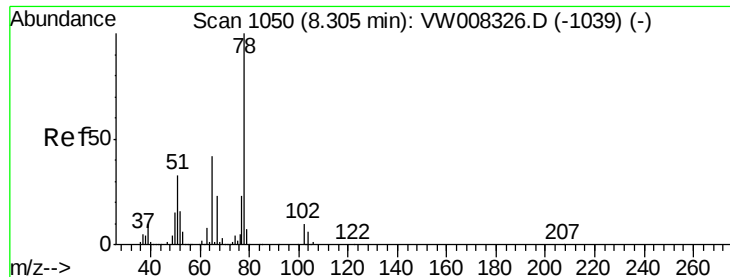
Tgt Ion: 42 Resp: 720
Ion Ratio Lower Upper
42 100
72 32.5 34.0 51.0#
71 45.8 32.0 48.0



#31
Cyclohexane
Concen: 1.465 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.00 min
Lab File: VW008379.D
Acq: 21 Jan 2019 17:00

Tgt Ion: 56 Resp: 2397
Ion Ratio Lower Upper
56 100
69 184.0 27.0 40.6#
84 176.4 72.5 108.7#

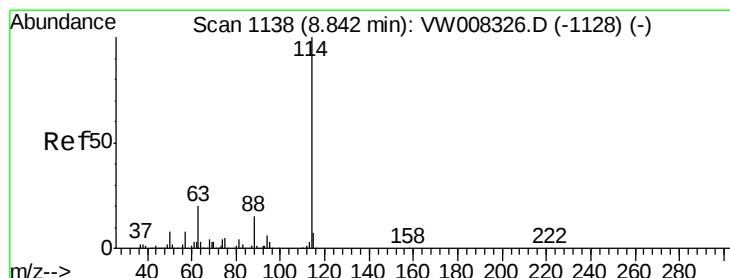
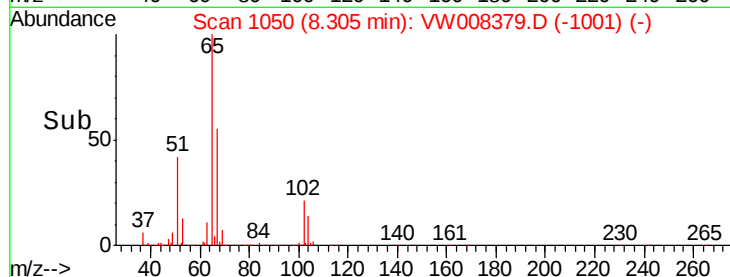
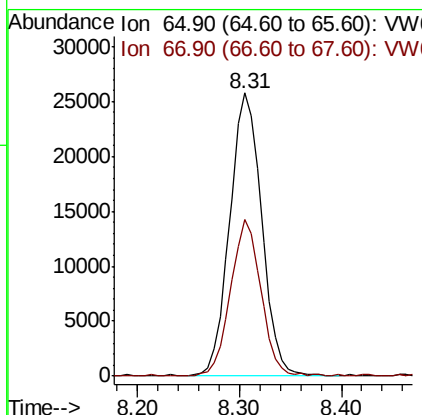
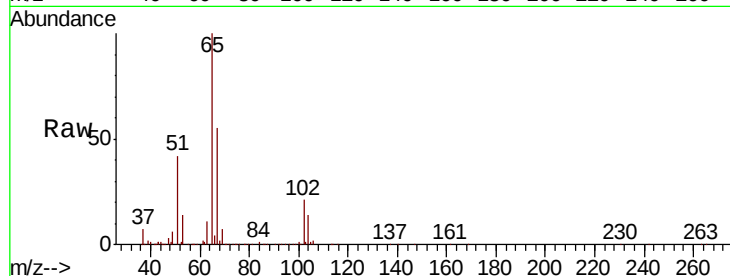




#33
 1,2-Dichloroethane-d4
 Concen: 63.960 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW008379.D
 Acq: 21 Jan 2019 17:00

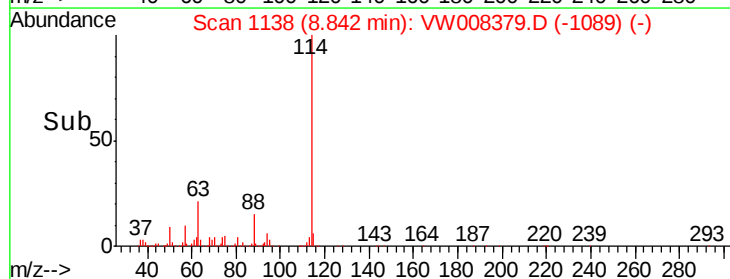
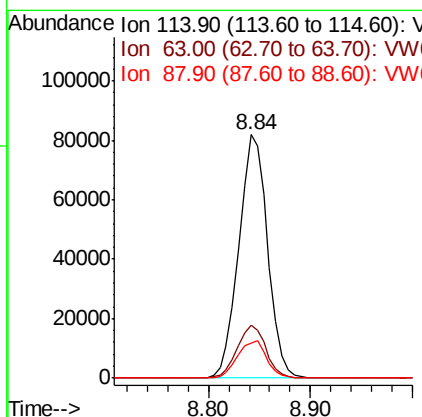
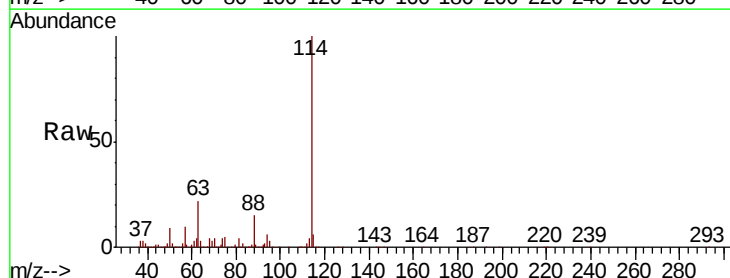
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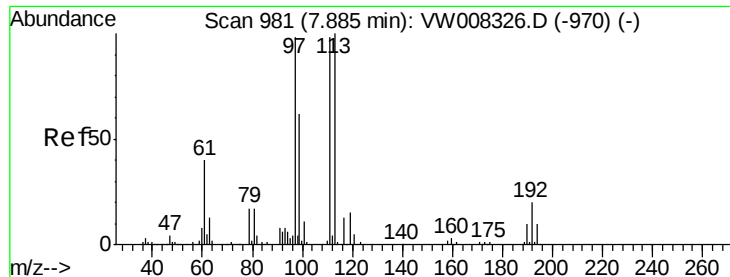
Tgt Ion: 65 Resp: 56027
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW008379.D
 Acq: 21 Jan 2019 17:00

Tgt Ion: 114 Resp: 159663
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 40.8
 88 14.6 0.0 30.4





#35

Dibromofluoromethane

Concen: 52.371 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW008379.D

Acq: 21 Jan 2019 17:00

Instrument :

MSVOA_W

ClientSampleId :

CL-01-011819-D

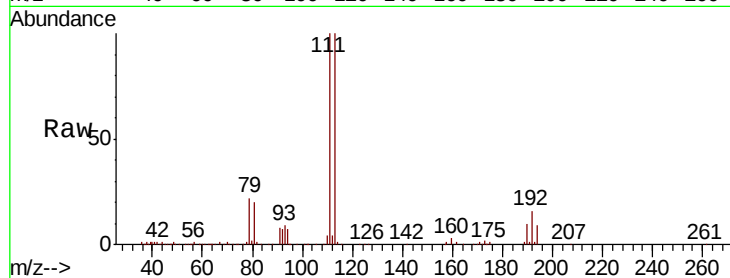
Tgt Ion:113 Resp: 53376

Ion Ratio Lower Upper

113 100

111 101.2 81.8 122.8

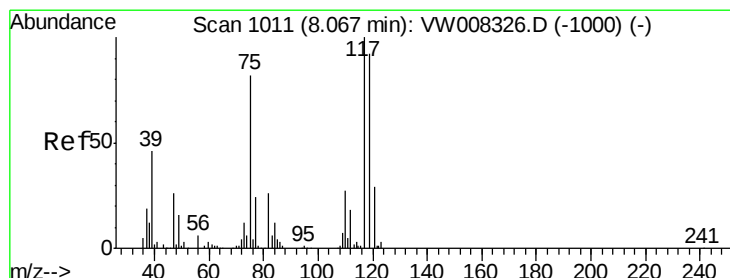
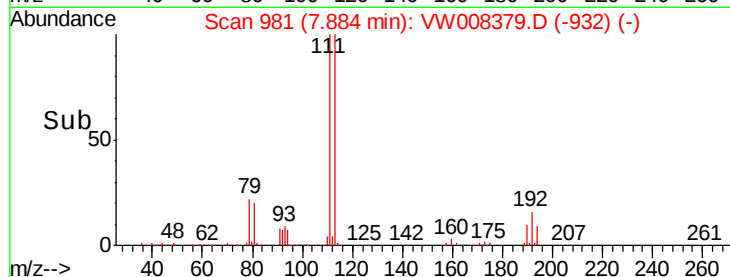
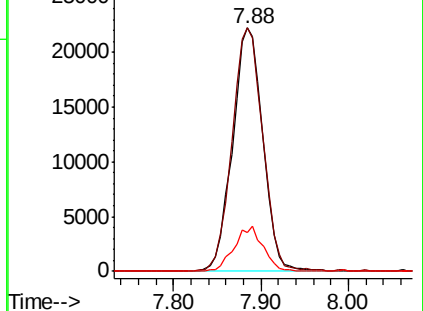
192 17.5 16.3 24.5



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



#38

Carbon Tetrachloride

Concen: 5.658 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW008379.D

Acq: 21 Jan 2019 17:00

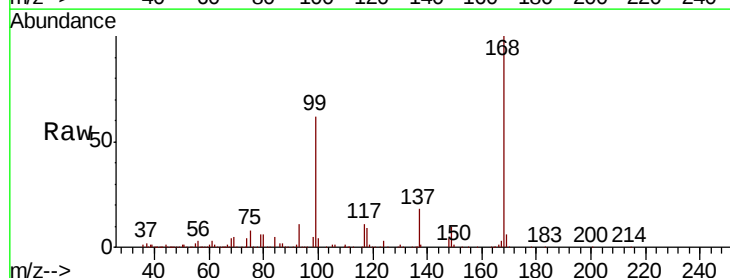
Tgt Ion:117 Resp: 8975

Ion Ratio Lower Upper

117 100

119 7.9 73.8 110.6#

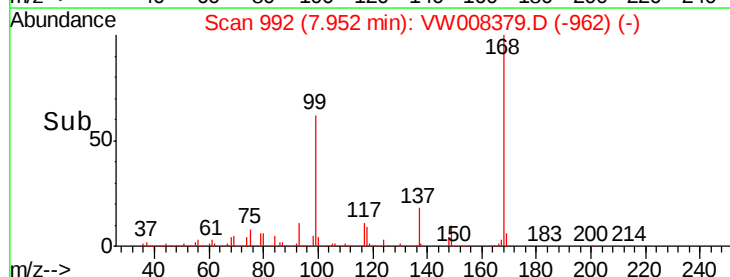
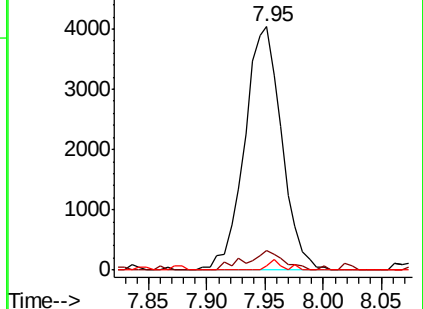
121 1.8 23.4 35.0#

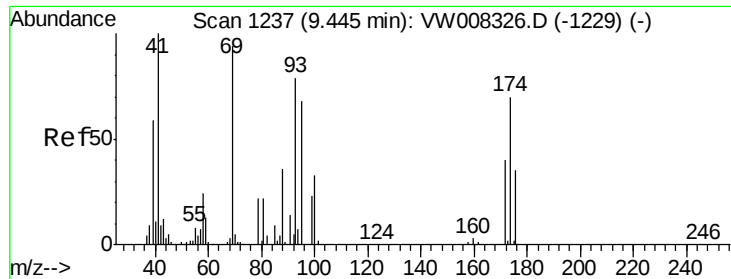


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

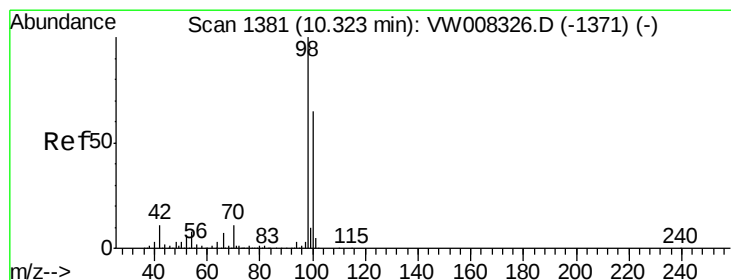
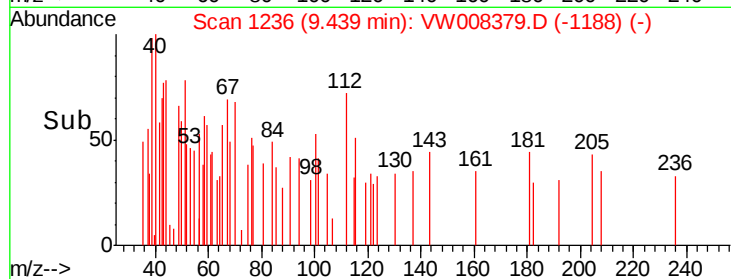
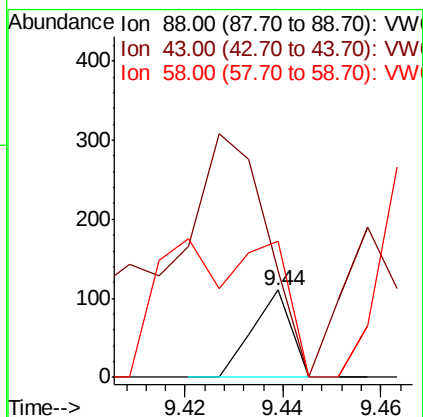
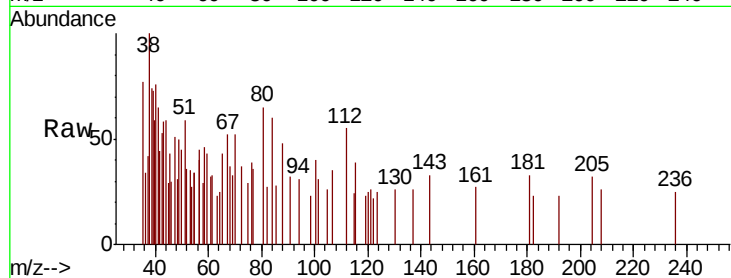




#49
1,4-Dioxane
Concen: 6.327 ug/l
RT: 9.44 min Scan# 1236
Delta R.T. -0.01 min
Lab File: VW008379.D
Acq: 21 Jan 2019 17:00

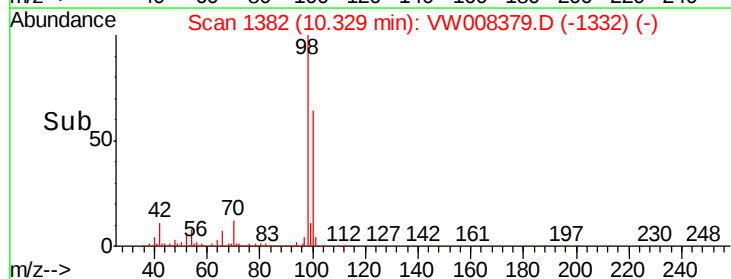
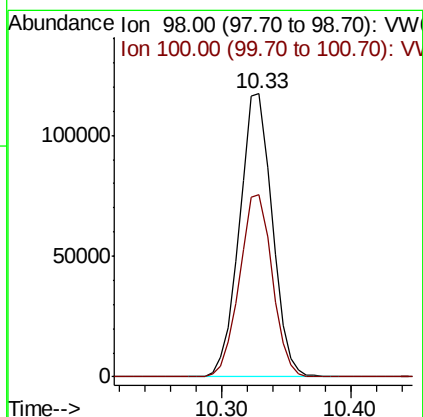
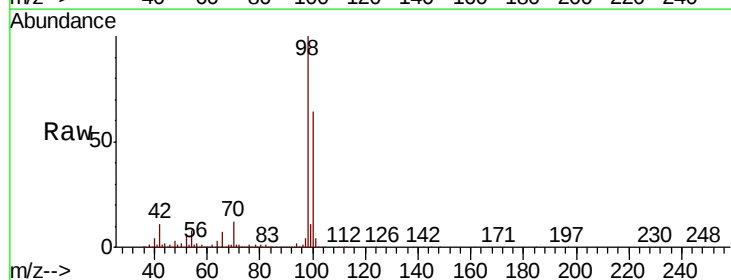
Instrument :
MSVOA_W
ClientSampleId :
CL-01-011819-D

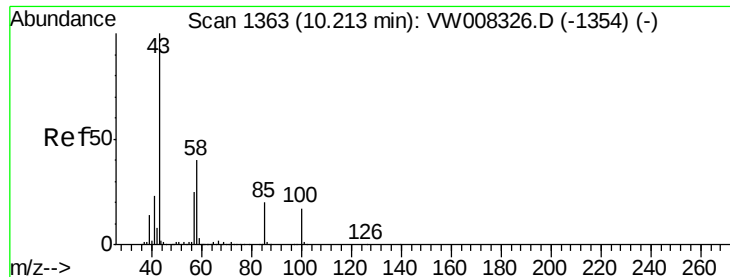
Tgt Ion: 88 Resp: 60
Ion Ratio Lower Upper
88 100
43 703.3 27.1 40.7#
58 466.7 57.9 86.9#



#50
Toluene-d8
Concen: 51.505 ug/l
RT: 10.33 min Scan# 1382
Delta R.T. 0.01 min
Lab File: VW008379.D
Acq: 21 Jan 2019 17:00

Tgt Ion: 98 Resp: 206223
Ion Ratio Lower Upper
98 100
100 64.6 51.8 77.8

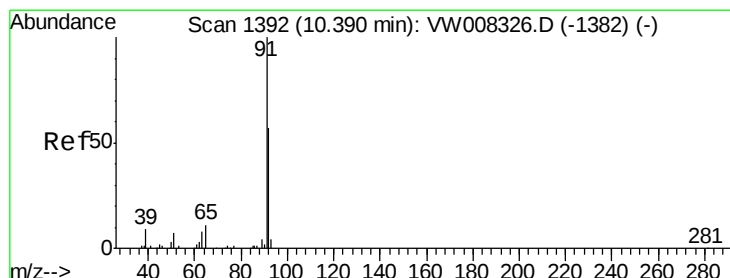
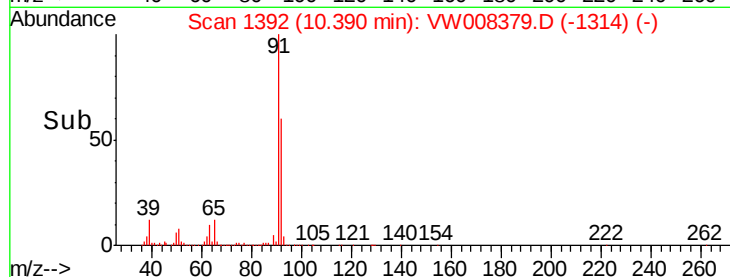
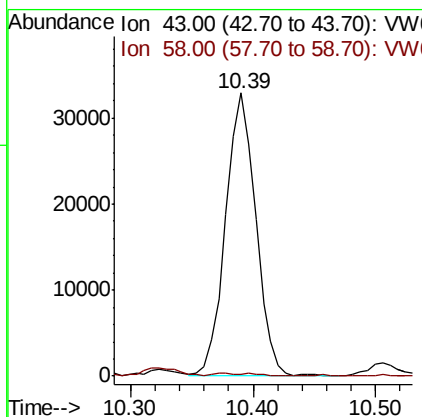
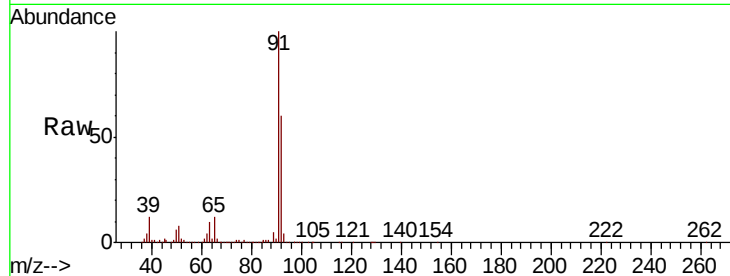




#51
 4-Methyl-2-Pentanone
 Concen: 88.133 ug/l
 RT: 10.39 min Scan# 1392
 Delta R.T. 0.18 min
 Lab File: VW008379.D
 Acq: 21 Jan 2019 17:00

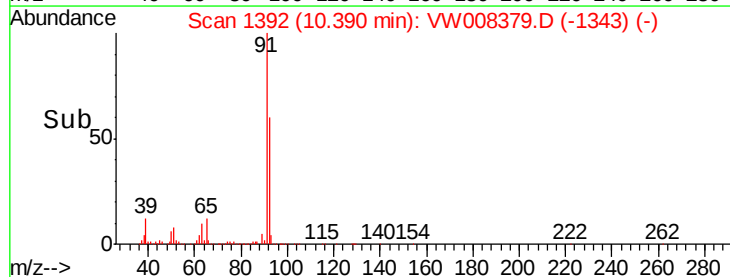
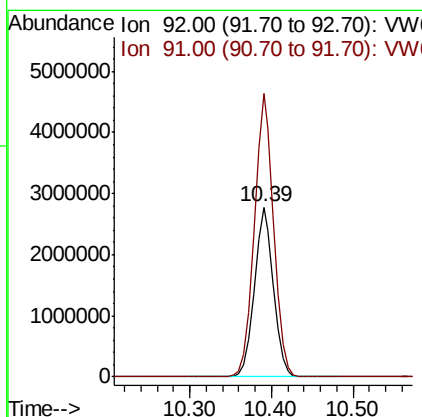
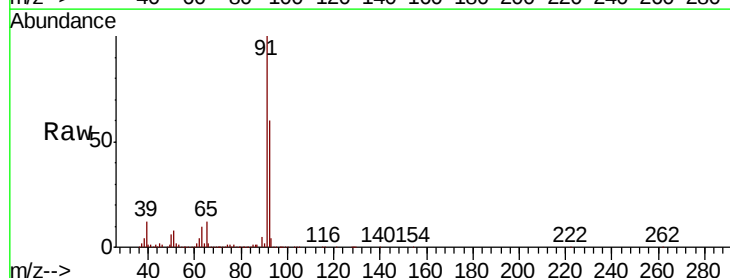
Instrument :
 MSVOA_W
 ClientSampled :
 CL-01-011819-D

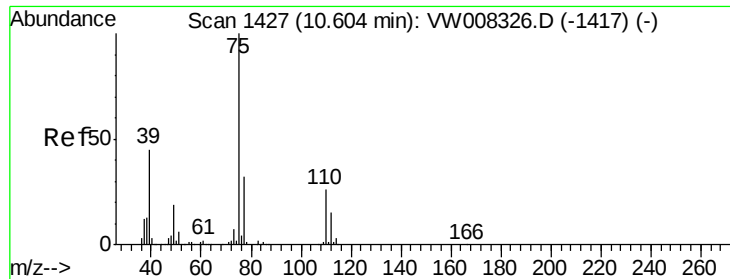
Tgt Ion: 43 Resp: 55840
 Ion Ratio Lower Upper
 43 100
 58 0.4 31.4 47.0#



#52
 Toluene
 Concen: 1575.293 ug/l
 RT: 10.39 min Scan# 1392
 Delta R.T. -0.00 min
 Lab File: VW008379.D
 Acq: 21 Jan 2019 17:00

Tgt Ion: 92 Resp: 4536208
 Ion Ratio Lower Upper
 92 100
 91 169.5 140.2 210.2





#53

t-1,3-Dichloropropene

Concen: 38.431 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.21 min

Lab File: VW008379.D

Acq: 21 Jan 2019 17:00

Instrument :

MSVOA_W

ClientSampleId :

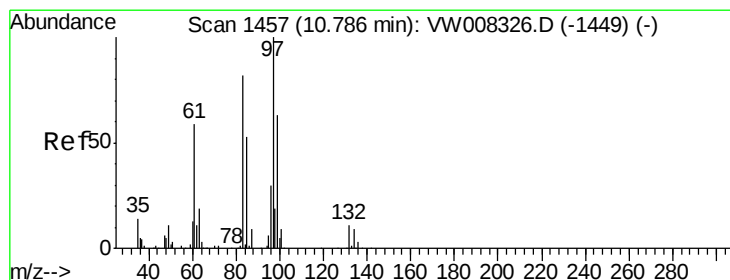
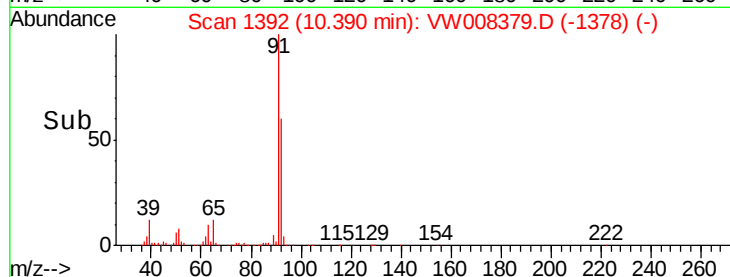
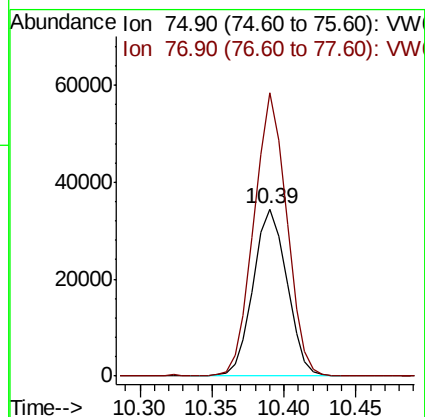
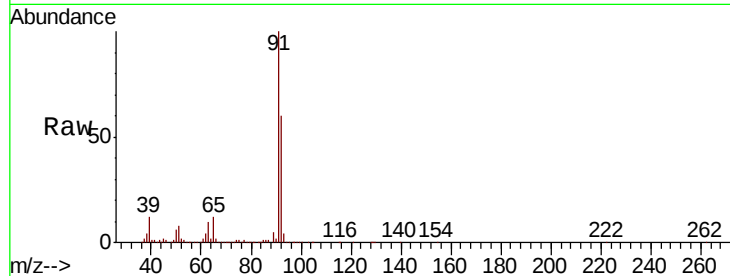
CL-01-011819-D

Tgt Ion: 75 Resp: 55736

Ion Ratio Lower Upper

75 100

77 169.6 25.8 38.8#



#55

1,1,2-Trichloroethane

Concen: 2.314 ug/l

RT: 10.76 min Scan# 1453

Delta R.T. -0.02 min

Lab File: VW008379.D

Acq: 21 Jan 2019 17:00

Tgt Ion: 97 Resp: 1891

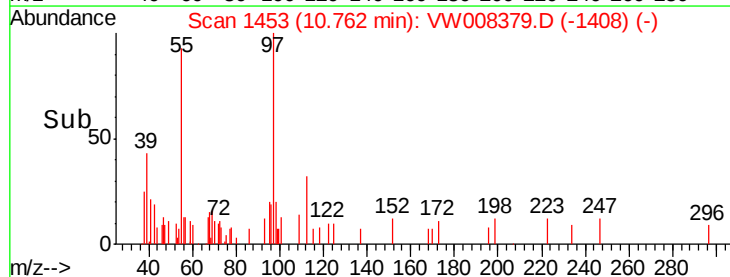
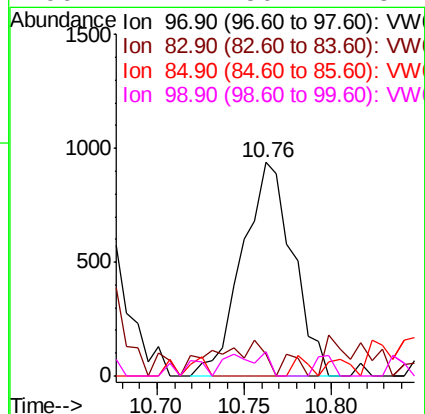
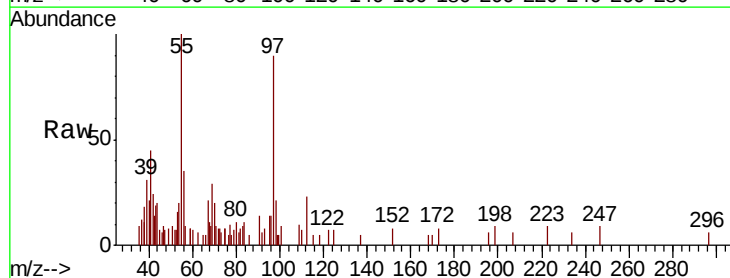
Ion Ratio Lower Upper

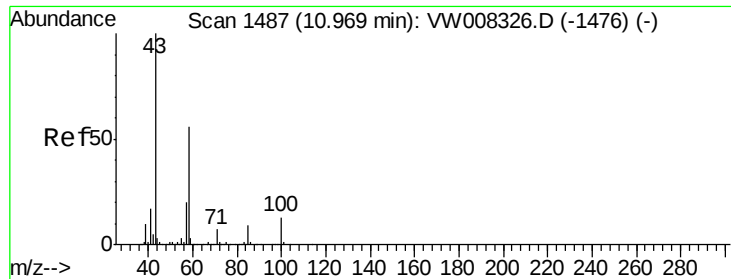
97 100

83 0.3 65.3 97.9#

85 0.0 42.6 64.0#

99 11.2 50.2 75.2#

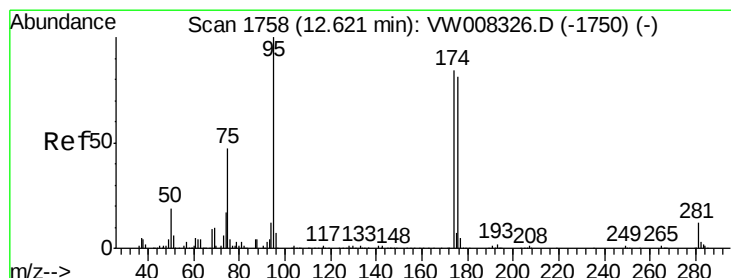
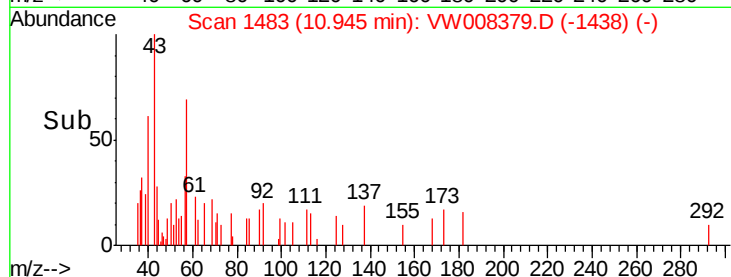
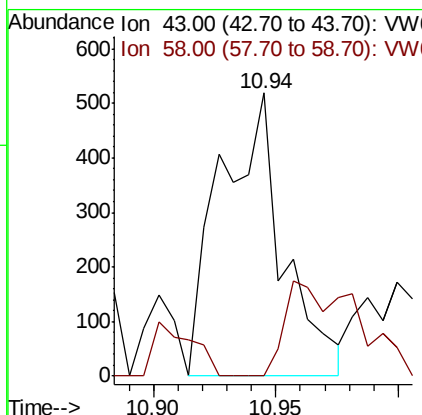
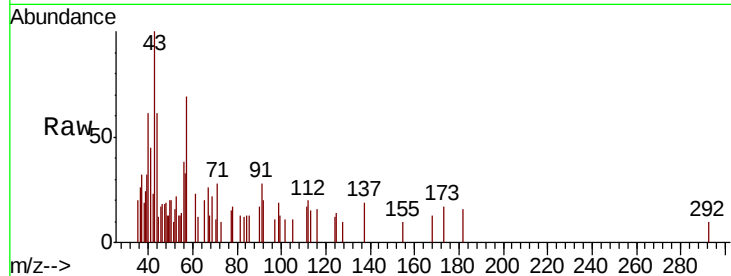




#59
2-Hexanone
Concen: 2.102 ug/l
RT: 10.94 min Scan# 1483
Delta R.T. -0.02 min
Lab File: VW008379.D
Acq: 21 Jan 2019 17:00

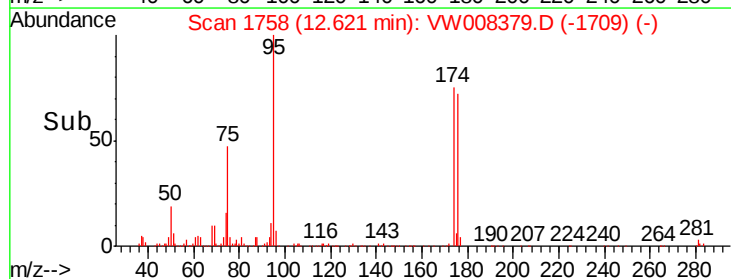
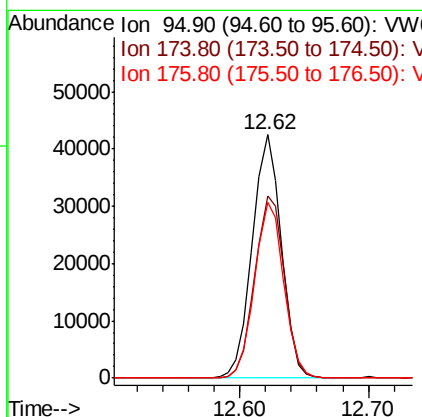
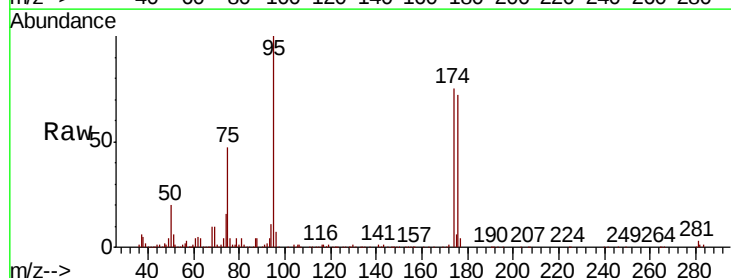
Instrument :
MSVOA_W
ClientSampleId :
CL-01-011819-D

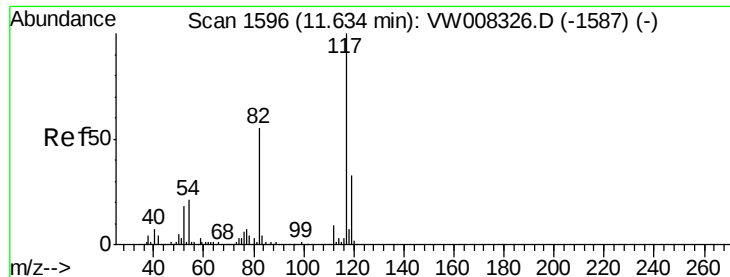
Tgt Ion: 43 Resp: 933
Ion Ratio Lower Upper
43 100
58 38.6 27.5 82.5



#62
4-Bromofluorobenzene
Concen: 46.015 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.00 min
Lab File: VW008379.D
Acq: 21 Jan 2019 17:00

Tgt Ion: 95 Resp: 66077
Ion Ratio Lower Upper
95 100
174 76.5 0.0 166.0
176 72.3 0.0 160.0

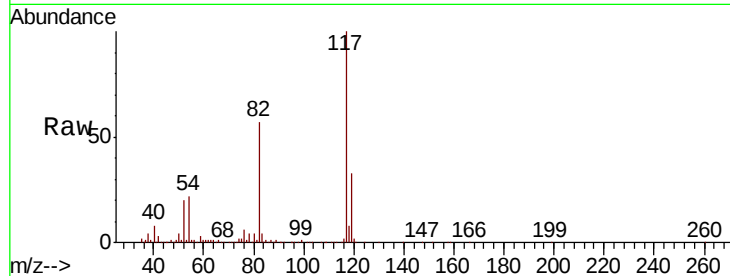




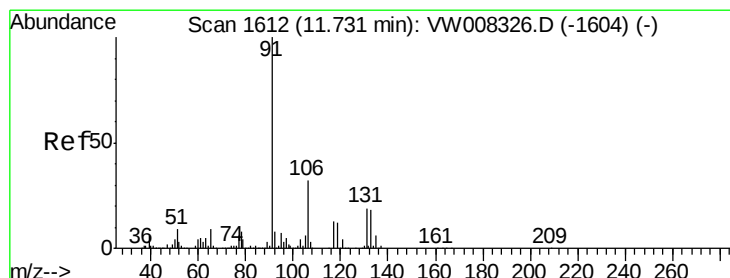
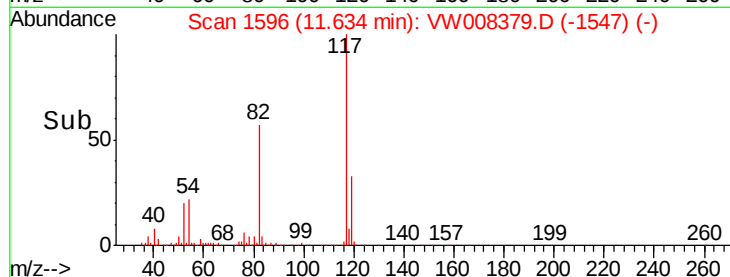
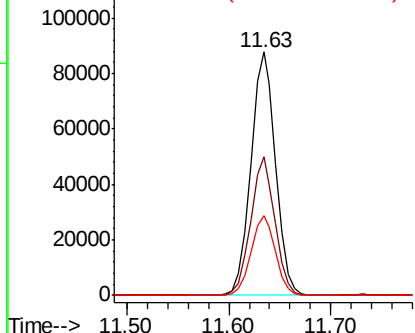
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW008379.D
Acq: 21 Jan 2019 17:00

Instrument :
MSVOA_W
ClientSampleId :
CL-01-011819-D

Tgt Ion: 117 Resp: 147585
Ion Ratio Lower Upper
117 100
82 56.8 44.3 66.5
119 32.9 26.3 39.5

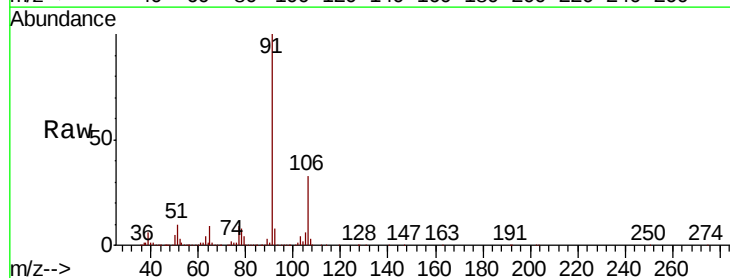


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VW
Ion 118.90 (118.60 to 119.60): V

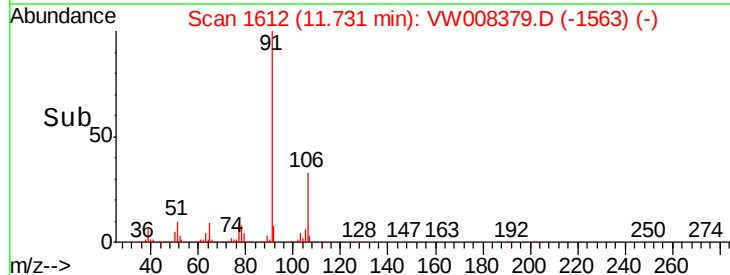
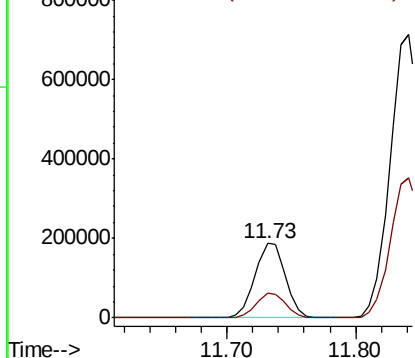


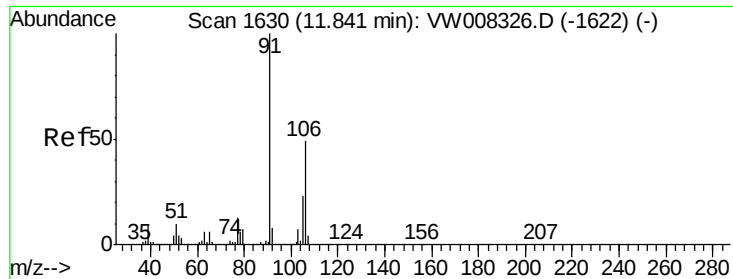
#67
Ethyl Benzene
Concen: 54.791 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW008379.D
Acq: 21 Jan 2019 17:00

Tgt Ion: 91 Resp: 306257
Ion Ratio Lower Upper
91 100
106 33.4 25.4 38.2



Abundance Ion 91.00 (90.70 to 91.70): VW
Ion 106.00 (105.70 to 106.70): V

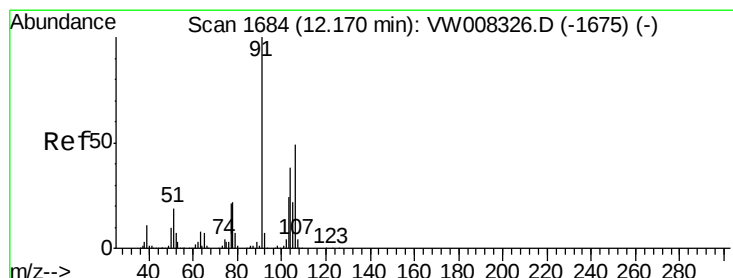
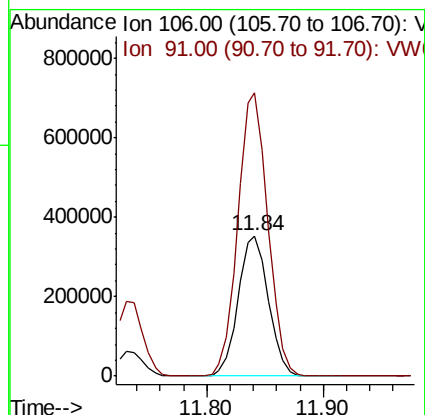
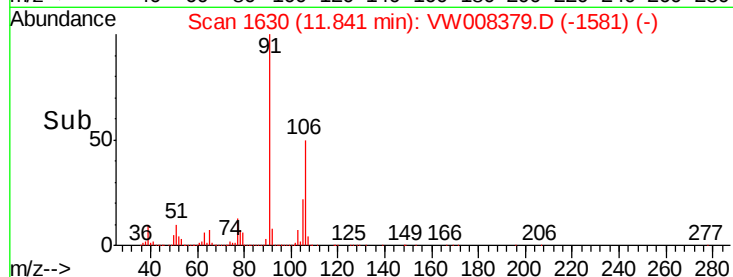
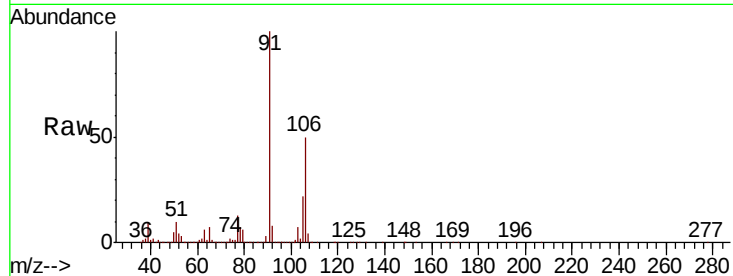




#68
m/p-Xylenes
Concen: 294.147 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW008379.D
Acq: 21 Jan 2019 17:00

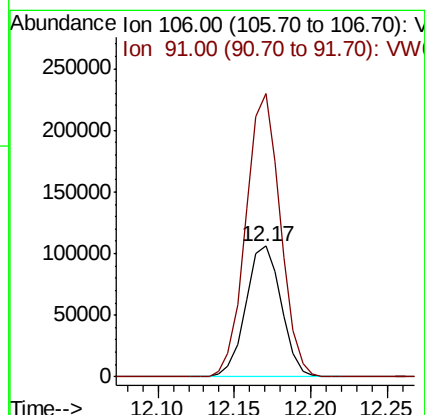
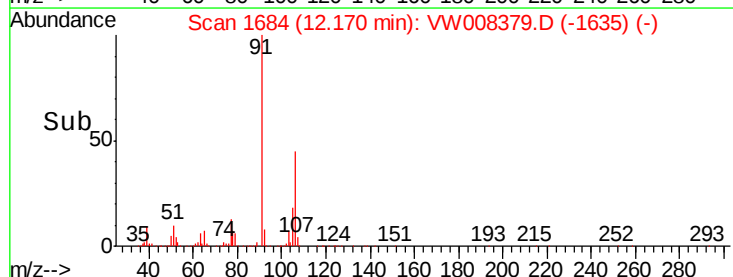
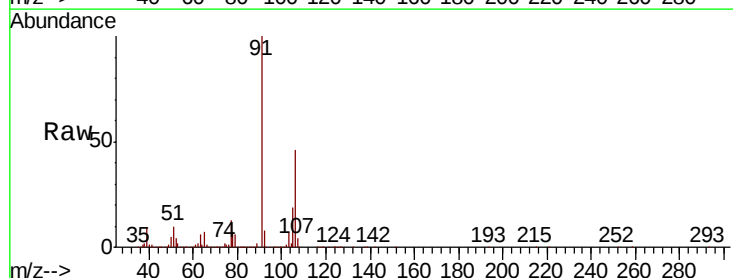
Instrument :
MSVOA_W
ClientSampleId :
CL-01-011819-D

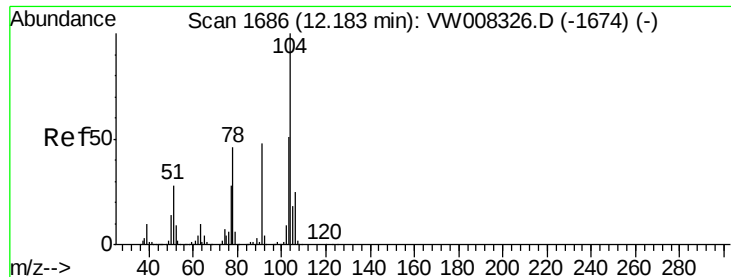
Tgt Ion:106 Resp: 638164
Ion Ratio Lower Upper
106 100
91 200.3 158.4 237.6



#69
o-Xylene
Concen: 84.566 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. -0.00 min
Lab File: VW008379.D
Acq: 21 Jan 2019 17:00

Tgt Ion:106 Resp: 171408
Ion Ratio Lower Upper
106 100
91 210.6 104.1 312.3





#70

Styrene

Concen: 3.000 ug/l

RT: 12.17 min Scan# 1684

Delta R.T. -0.01 min

Lab File: VW008379.D

Acq: 21 Jan 2019 17:00

Instrument :

MSVOA_W

ClientSampleId :

CL-01-011819-D

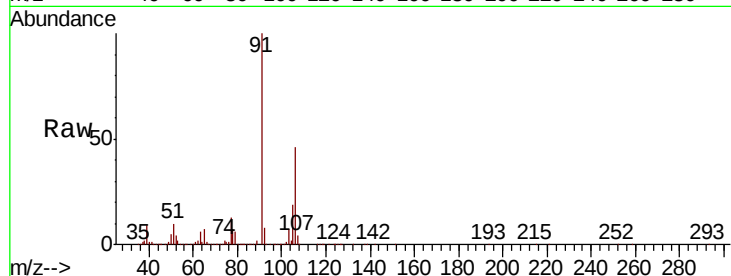
Tgt Ion:104 Resp: 9768

Ion Ratio Lower Upper

104 100

78 265.2 39.8 59.6#

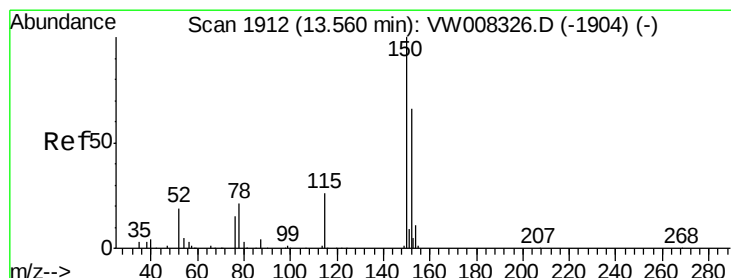
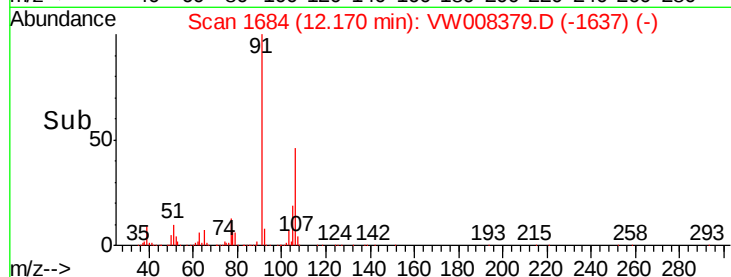
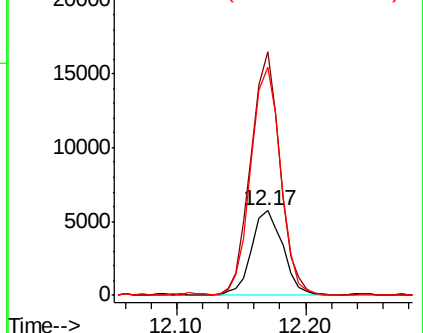
103 252.8 44.0 66.0#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW

Ion 103.00 (102.70 to 103.70): 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: VW008379.D

Acq: 21 Jan 2019 17:00

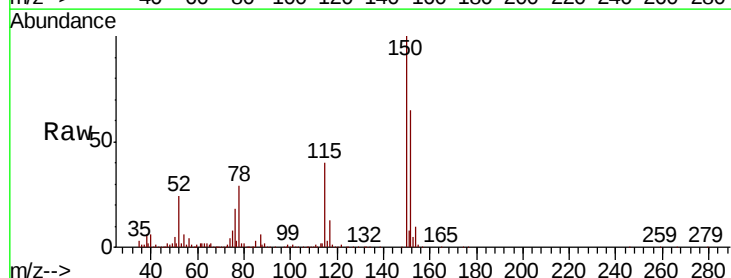
Tgt Ion:152 Resp: 53545

Ion Ratio Lower Upper

152 100

115 59.8 28.8 86.4

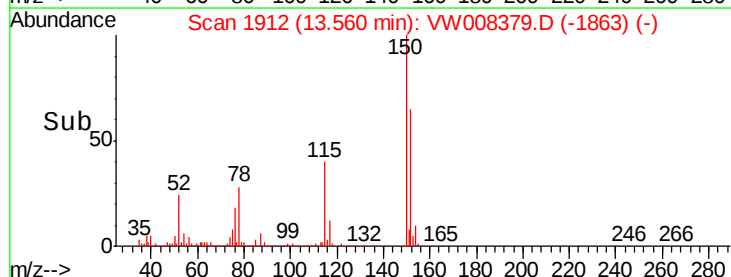
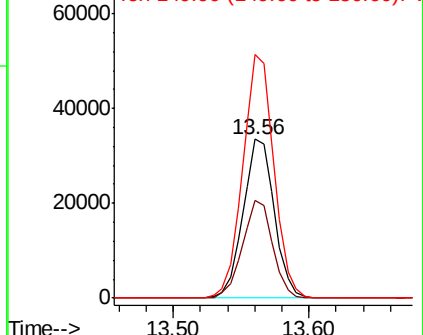
150 153.2 0.0 351.4

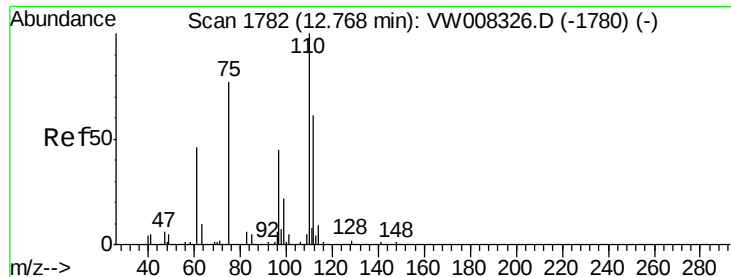


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 67.480 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW008379.D

Acq: 21 Jan 2019 17:00

Instrument :

MSVOA_W

ClientSampleId :

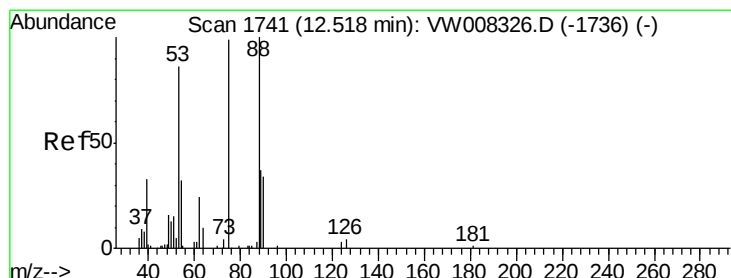
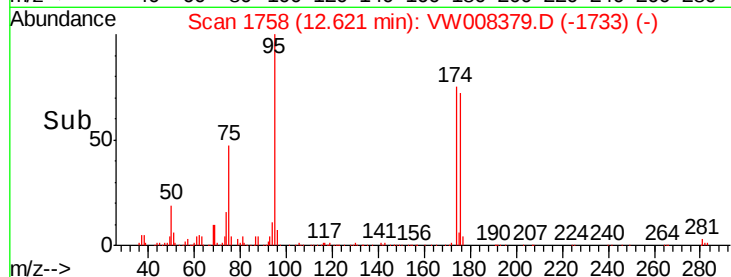
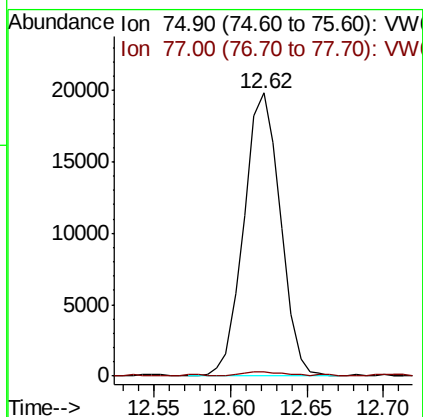
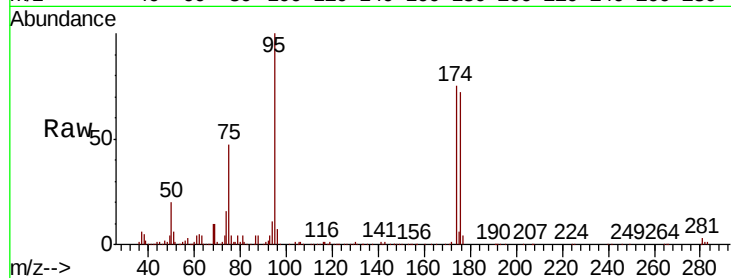
CL-01-011819-D

Tgt Ion: 75 Resp: 32904

Ion Ratio Lower Upper

75 100

77 2.0 175.3 526.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 161.036 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW008379.D

Acq: 21 Jan 2019 17:00

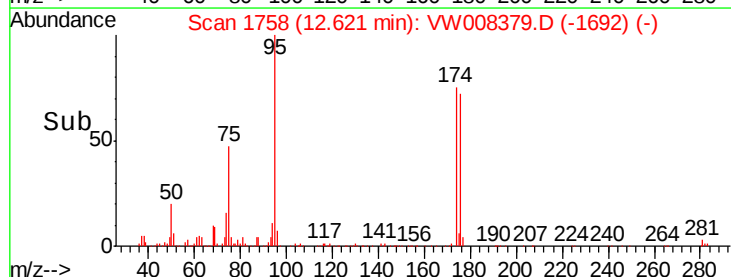
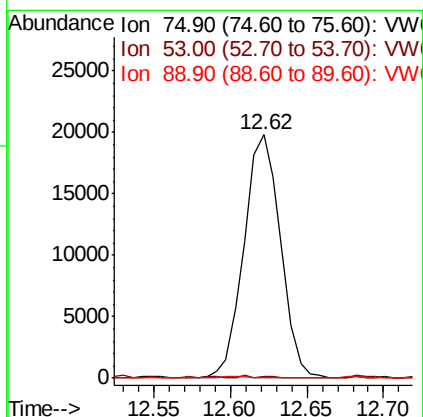
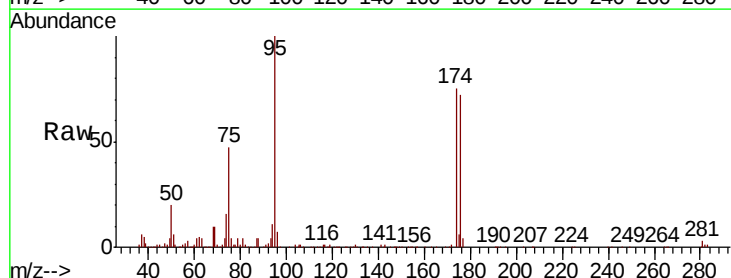
Tgt Ion: 75 Resp: 32904

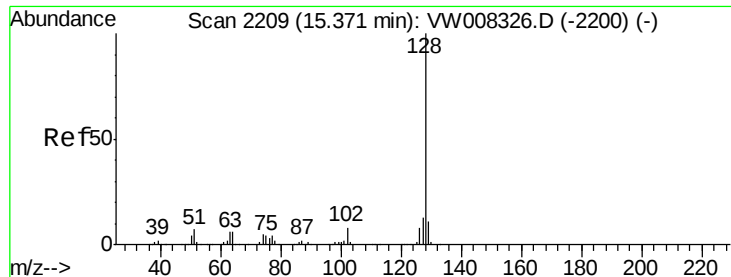
Ion Ratio Lower Upper

75 100

53 0.4 76.2 114.4#

89 0.4 36.7 55.1#

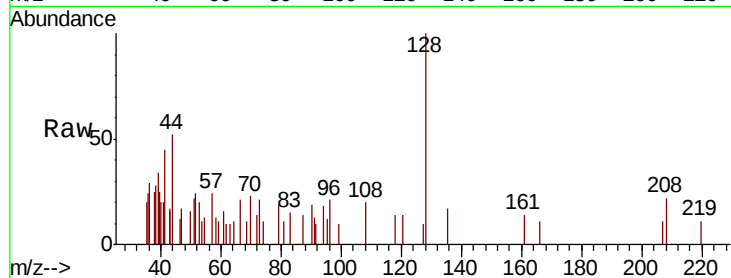




#95
 Naphthalene
 Concen: 2.686 ug/l
 RT: 15.38 min Scan# 2210
 Delta R.T. 0.01 min
 Lab File: VW008379.D
 Acq: 21 Jan 2019 17:00

Instrument :
 MSVOA_W
 ClientSampleId :
 CL-01-011819-D

Tgt Ion:128 Resp: 768
 Ion Ratio Lower Upper
 128 100
 127 2.5 10.5 15.7#
 129 12.5 8.8 13.2



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

