

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW062819\
 Data File : VW011040.D
 Acq On : 28 Jun 2019 02:44
 Operator : SY/VA
 Sample : K3517-13
 Misc : 6.79G/5ML/MSVOA W/SOIL
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 CL-02-062619-B

Quant Time: Jun 28 08:35:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W062819S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 28 01:55:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	188317	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	314984	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	260988	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	98762	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.30	65	128241	52.09	ug/l	0.00
Spiked Amount			Recovery	=	104.18%	
35) Dibromofluoromethane	7.88	113	97172	50.52	ug/l	0.00
Spiked Amount			Recovery	=	101.04%	
50) Toluene-d8	10.32	98	385029	48.63	ug/l	0.00
Spiked Amount			Recovery	=	97.26%	
62) 4-Bromofluorobenzene	12.62	95	121532	41.97	ug/l	0.00
Spiked Amount			Recovery	=	83.94%	

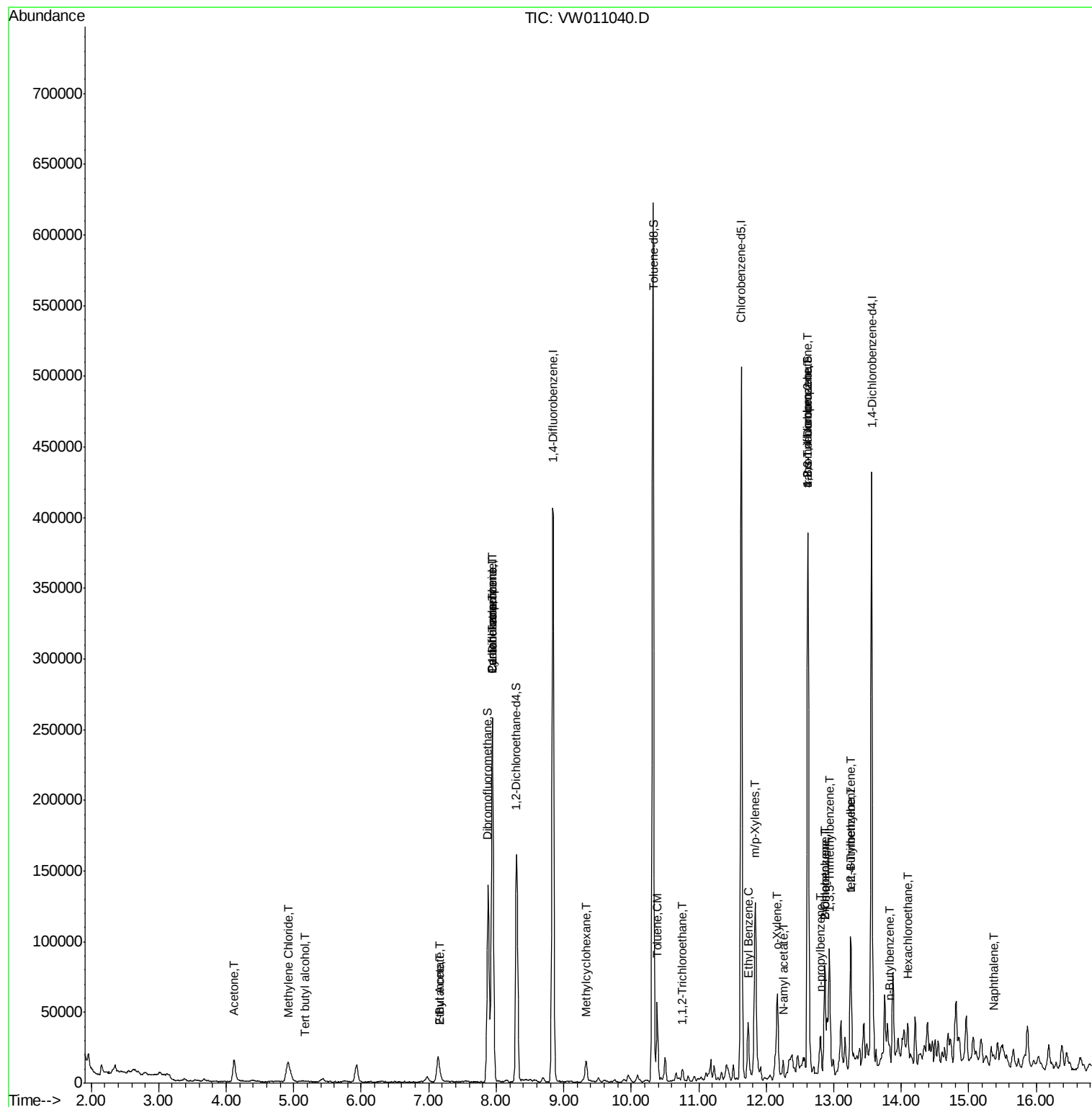
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.17	59	1289	7.209	ug/l #	85
16) Acetone	4.12	43	28750	47.844	ug/l	100
20) Methylene Chloride	4.92	84	10404	4.261	ug/l	92
25) 2-Butanone	7.17	43	5409	5.922	ug/l	92
31) Cyclohexane	7.94	56	6280	1.334	ug/l #	6
36) 1,1-Dichloropropene	7.95	75	17412	5.143	ug/l #	52
37) Ethyl Acetate	7.17	43	5409	2.746	ug/l #	73
38) Carbon Tetrachloride	7.95	117	19199	6.886	ug/l #	16
39) Methylcyclohexane	9.33	83	5083	1.220	ug/l	93
52) Toluene	10.38	92	21481	3.768	ug/l	96
55) 1,1,2-Trichloroethane	10.76	97	2774	1.660	ug/l #	16
67) Ethyl Benzene	11.73	91	25252	2.468	ug/l	95
68) m/p-Xylenes	11.84	106	27366	7.370	ug/l	98
69) o-Xylene	12.16	106	13847	4.004	ug/l	98
74) N-amyl acetate	12.25	43	3490	1.405	ug/l #	71
76) 1,2,3-Trichloropropane	12.62	75	66590	63.865	ug/l #	100
77) Bromobenzene	12.86	156	1644	1.011	ug/l #	27
78) n-propylbenzene	12.80	91	19850	2.167	ug/l	100
79) 2-Chlorotoluene	12.87	91	5410	1.034	ug/l #	44
80) 1,3,5-Trimethylbenzene	12.94	105	15932	2.541	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.62	75	66590	128.840	ug/l #	4
83) tert-Butylbenzene	13.25	119	6067	1.160	ug/l #	72
84) 1,2,4-Trimethylbenzene	13.25	105	48930	7.720	ug/l	100
89) n-Butylbenzene	13.82	91	9838	1.416	ug/l #	72
90) Hexachloroethane	14.10	117	1323	1.131	ug/l #	11
95) Naphthalene	15.36	128	4552	1.192	ug/l #	82

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

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Quant Title : SW846 8260
QLast Update : Fri Jun 28 01:55:46 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW011040.D

Acq: 28 Jun 2019 02:44

Instrument :

MSVOA_W

ClientSampleId :

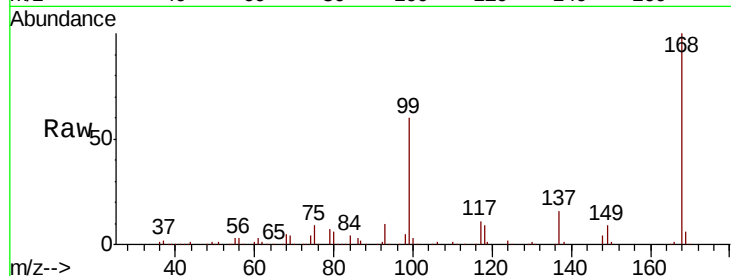
CL-02-062619-B

Tot Ion:168 Resp: 188317

Ion Ratio Lower Upper

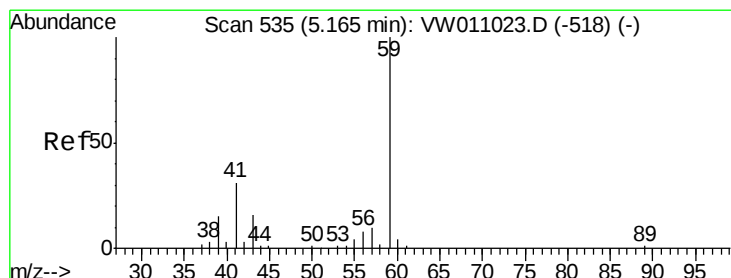
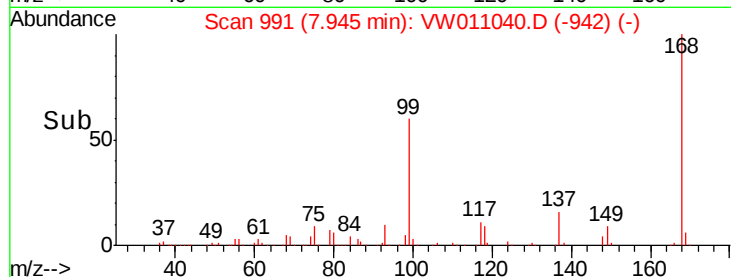
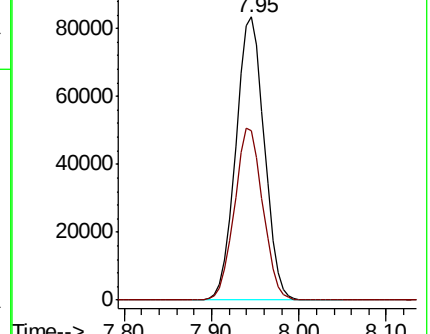
168 100

99 59.8 47.8 71.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 7.209 ug/l

RT: 5.17 min Scan# 536

Delta R.T. 0.01 min

Lab File: VW011040.D

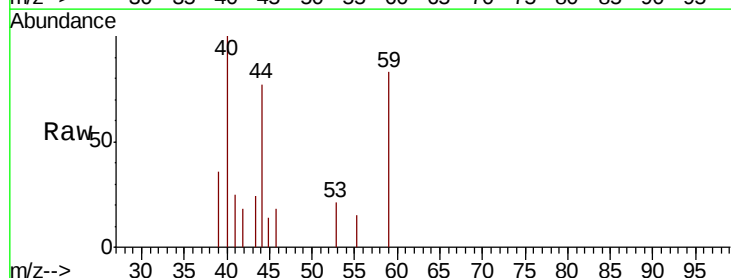
Acq: 28 Jun 2019 02:44

Tgt Ion: 59 Resp: 1289

Ion Ratio Lower Upper

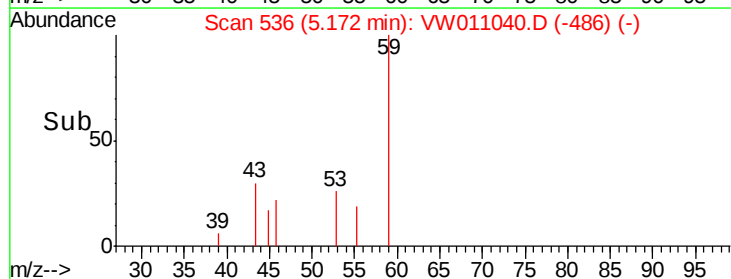
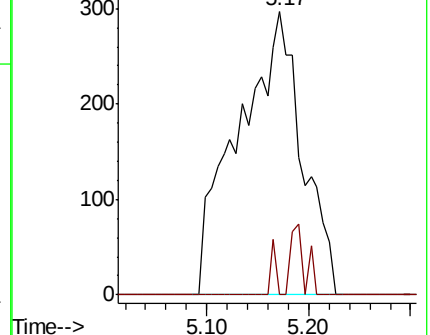
59 100

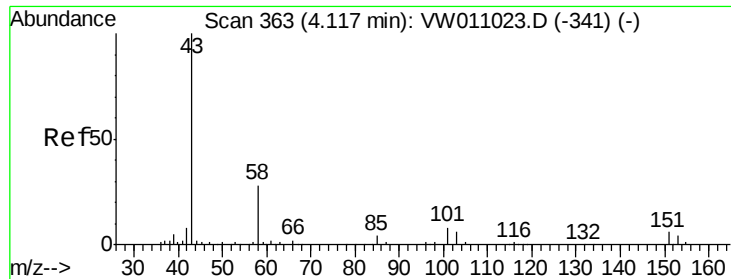
57 5.4 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 47.844 ug/l

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW011040.D

Acq: 28 Jun 2019 02:44

Instrument :

MSVOA_W

ClientSampleId :

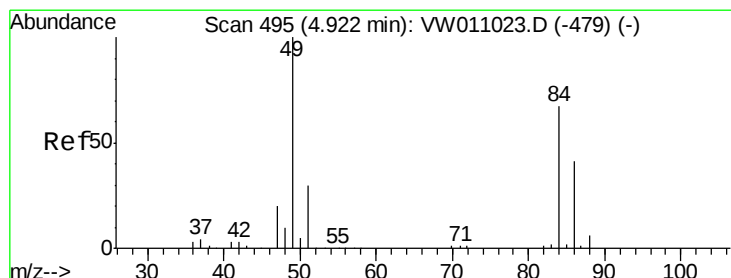
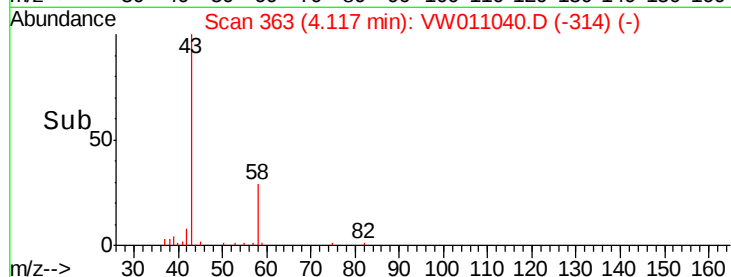
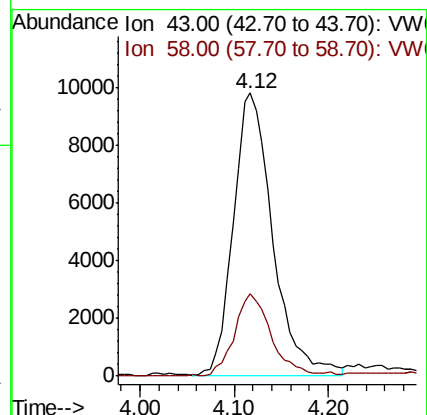
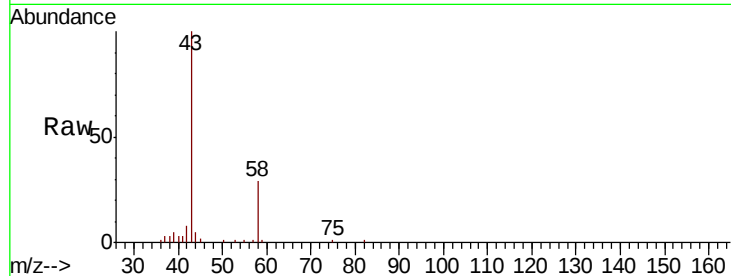
CL-02-062619-B

Tot Ion: 43 Resp: 28750

Ion Ratio Lower Upper

43 100

58 28.3 22.5 33.7



#20

Methylene Chloride

Concen: 4.261 ug/l

RT: 4.92 min Scan# 494

Delta R.T. -0.01 min

Lab File: VW011040.D

Acq: 28 Jun 2019 02:44

Tgt Ion: 84 Resp: 10404

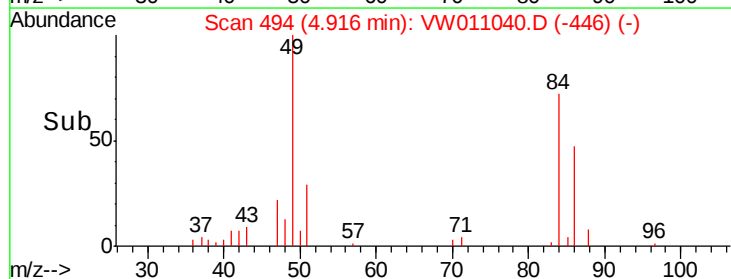
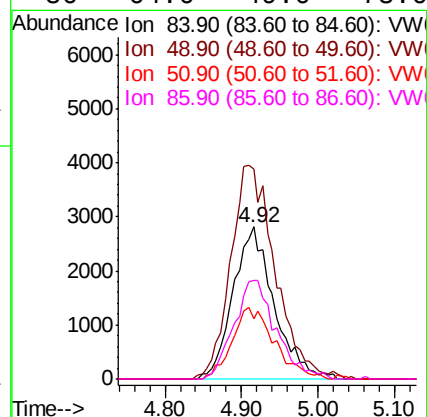
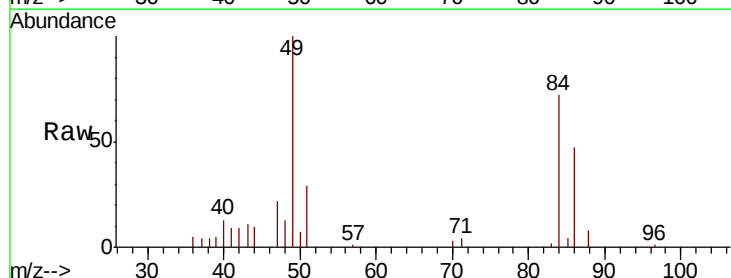
Ion Ratio Lower Upper

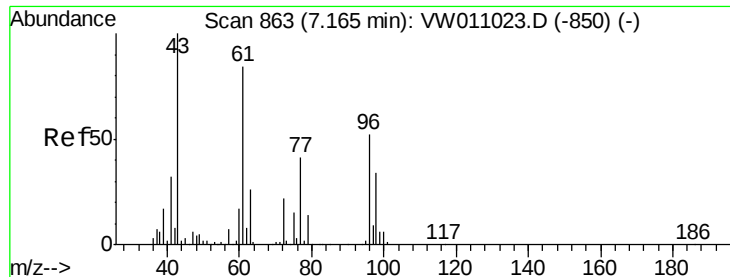
84 100

49 138.1 119.6 179.4

51 39.4 35.6 53.4

86 64.6 49.0 73.6





#25

2-Butanone

Concen: 5.922 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW011040.D

Acq: 28 Jun 2019 02:44

Instrument :

MSVOA_W

ClientSampleId :

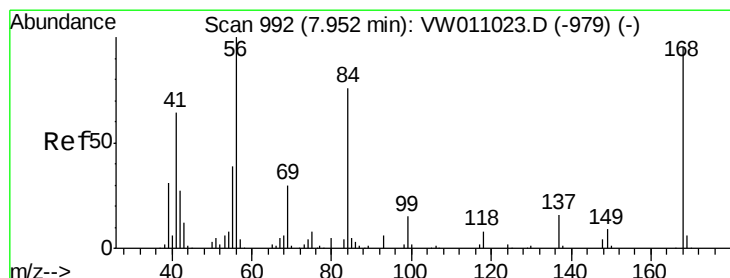
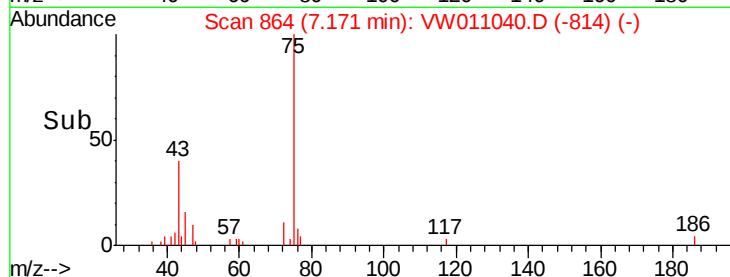
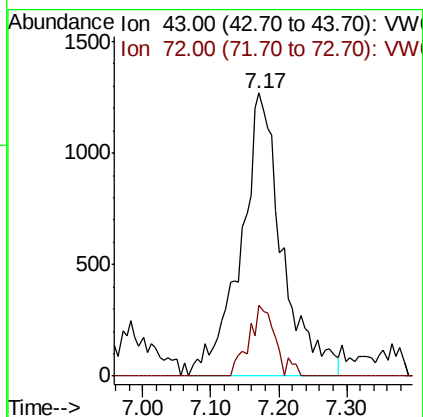
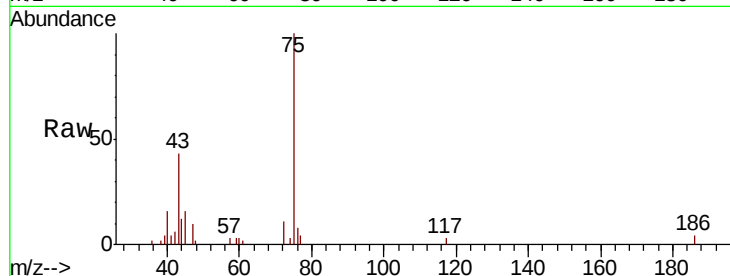
CL-02-062619-B

Tot Ion: 43 Resp: 5409

Ion Ratio Lower Upper

43 100

72 25.2 17.2 25.8



#31

Cyclohexane

Concen: 1.334 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW011040.D

Acq: 28 Jun 2019 02:44

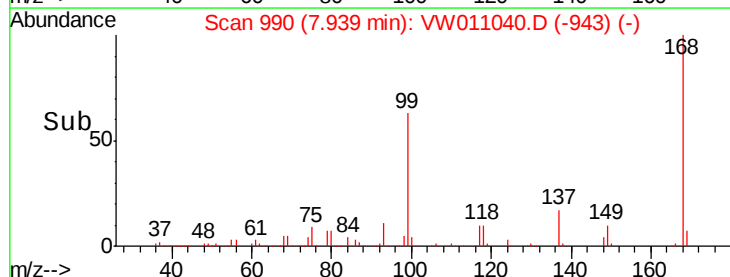
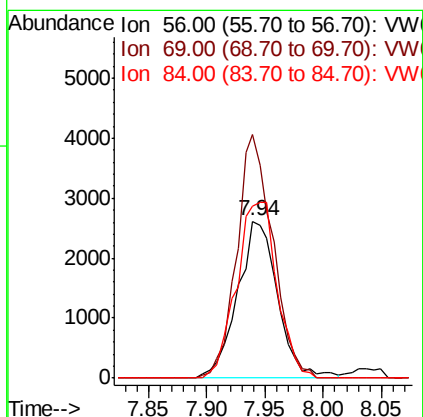
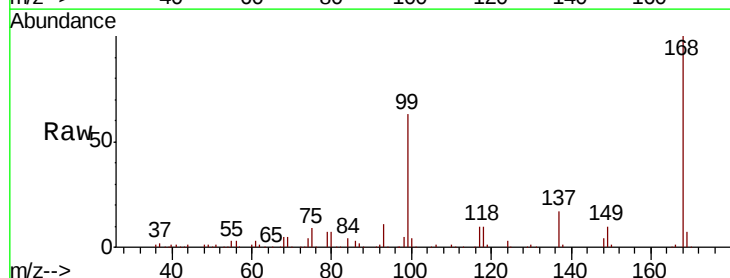
Tgt Ion: 56 Resp: 6280

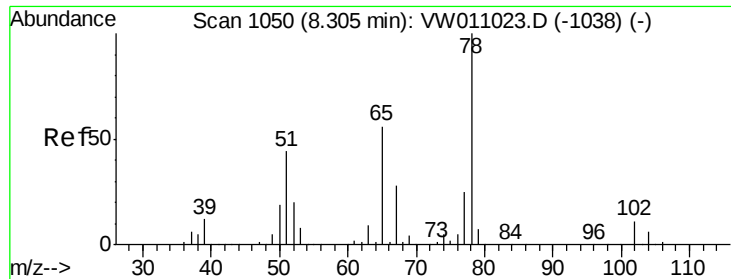
Ion Ratio Lower Upper

56 100

69 154.9 24.2 36.2#

84 109.6 60.6 90.8#

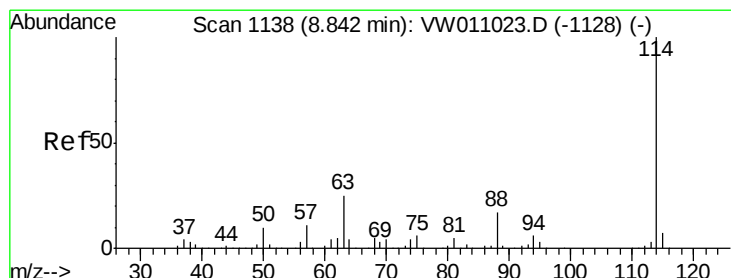
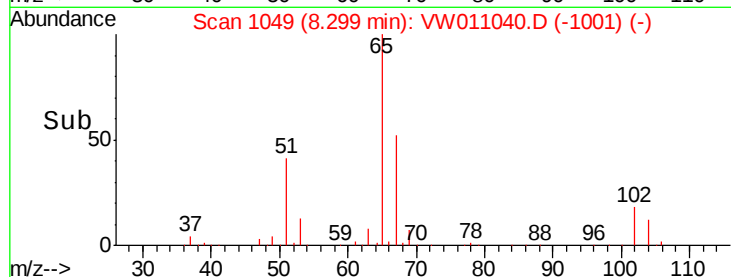
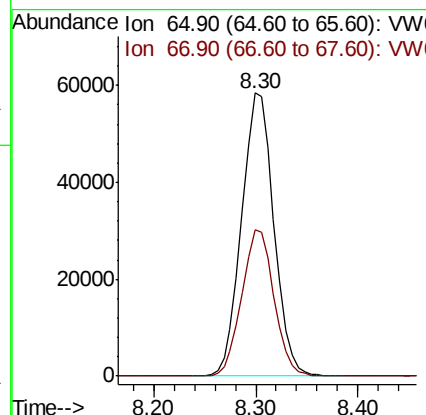
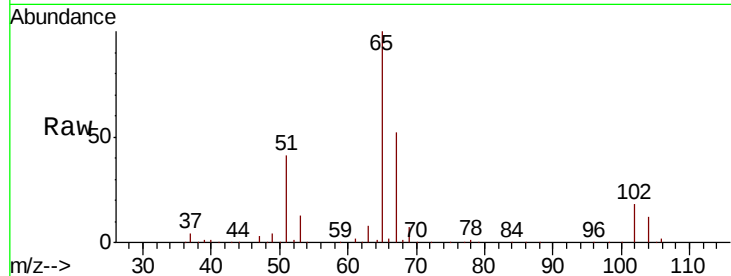




#33
 1,2-Dichloroethane-d4
 Concen: 52.092 ug/l
 RT: 8.30 min Scan# 1049
 Delta R.T. -0.01 min
 Lab File: VW011040.D
 Acq: 28 Jun 2019 02:44

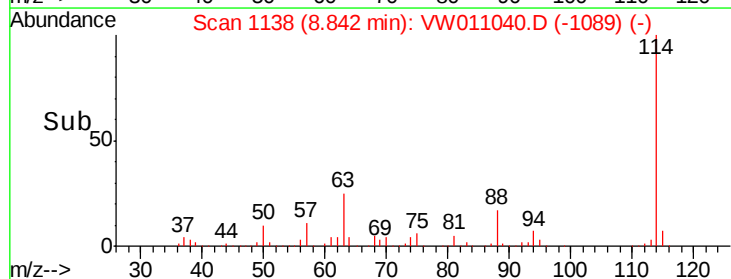
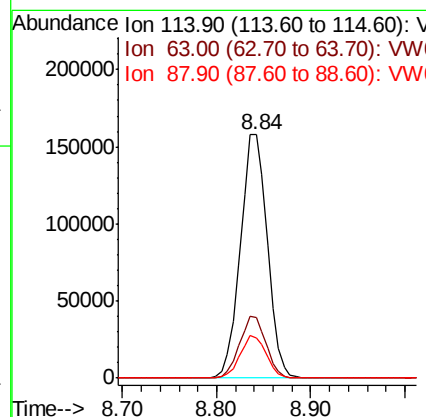
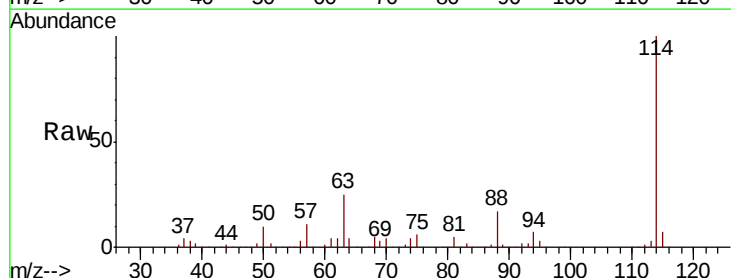
Instrument :
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 CL-02-062619-B

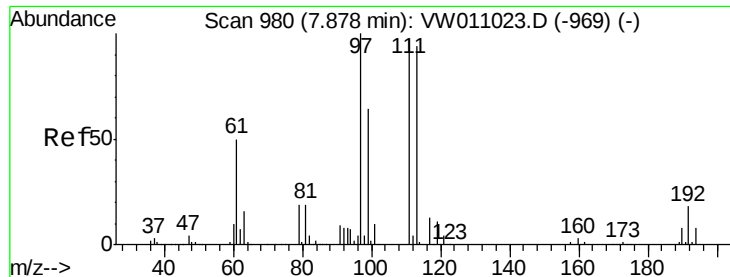
Tot Ion: 65 Resp: 128241
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 102.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW011040.D
 Acq: 28 Jun 2019 02:44

Tgt Ion: 114 Resp: 314984
 Ion Ratio Lower Upper
 114 100
 63 24.8 0.0 50.6
 88 16.6 0.0 34.0

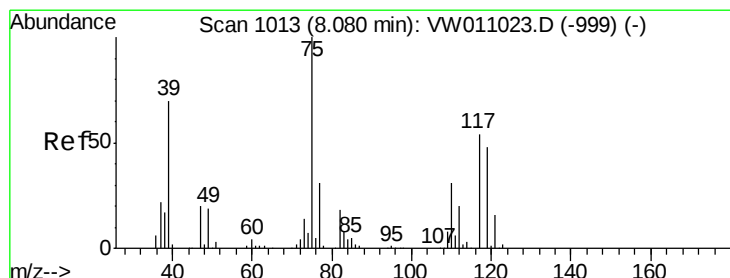
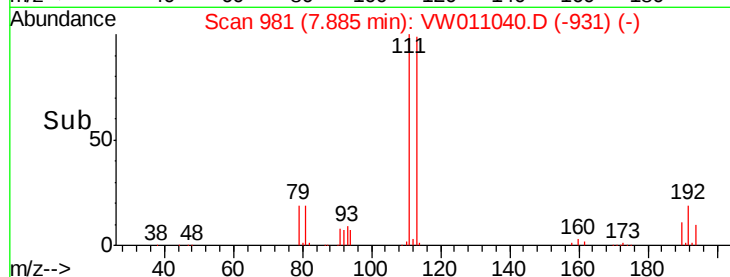
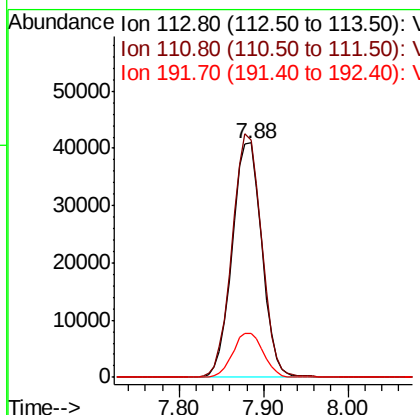
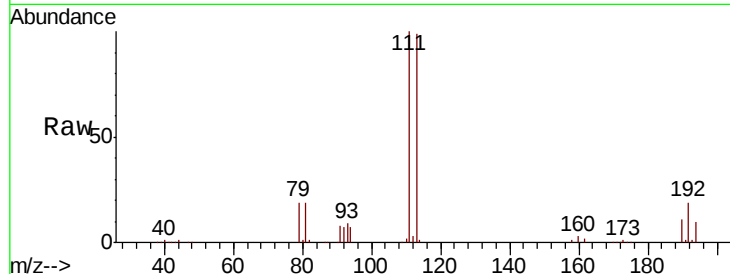




#35
 Dibromofluoromethane
 Concen: 50.520 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.01 min
 Lab File: VW011040.D
 Acq: 28 Jun 2019 02:44

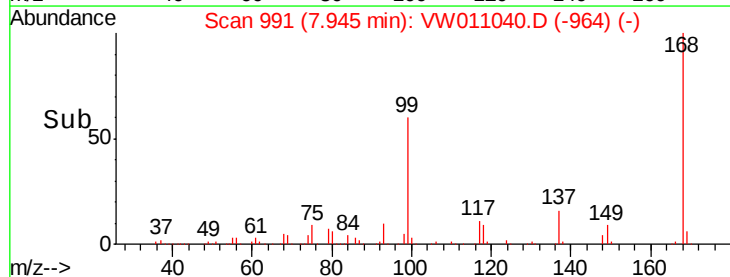
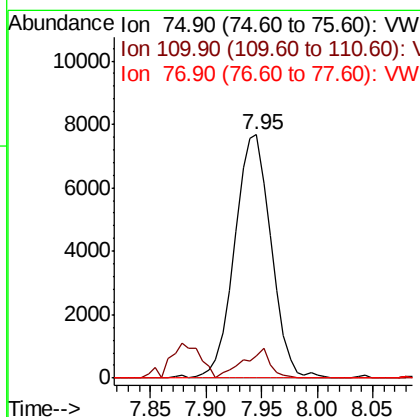
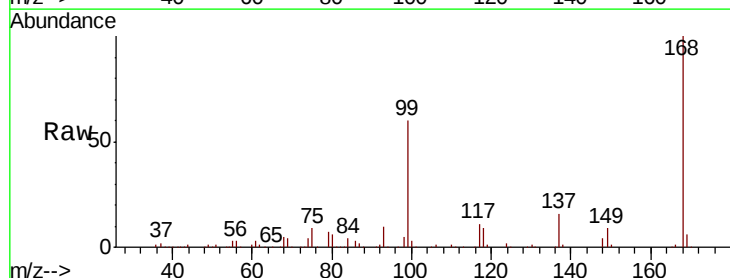
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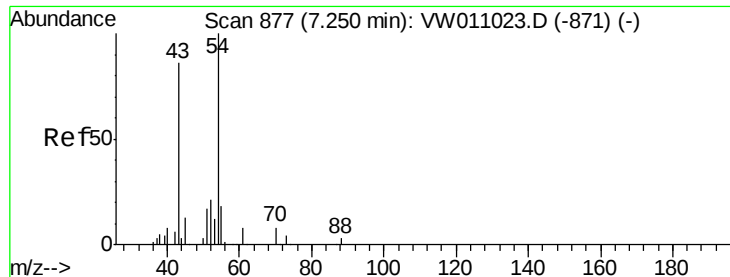
Tot Ion:113 Resp: 97172
 Ion Ratio Lower Upper
 113 100
 111 103.4 83.8 125.6
 192 19.3 16.0 24.0



#36
 1,1-Dichloropropene
 Concen: 5.143 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW011040.D
 Acq: 28 Jun 2019 02:44

Tgt Ion: 75 Resp: 17412
 Ion Ratio Lower Upper
 75 100
 110 9.1 15.5 46.5#
 77 0.0 24.9 37.3#

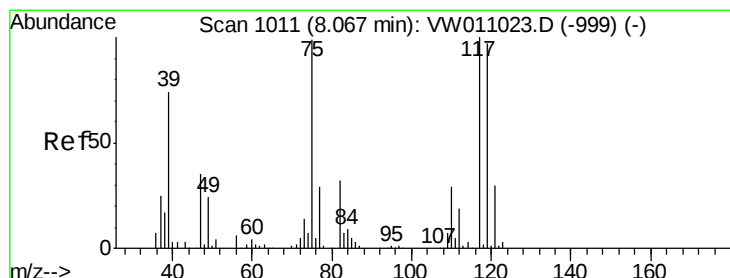
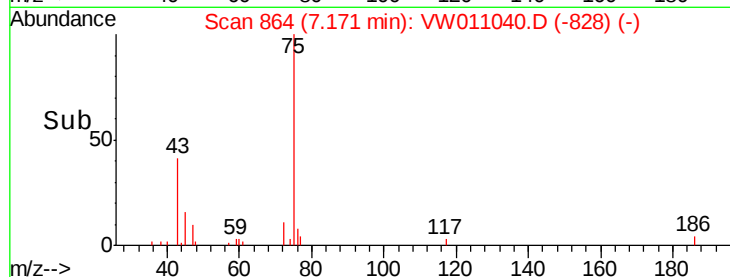
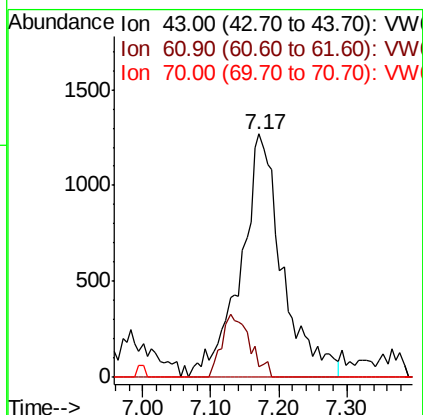
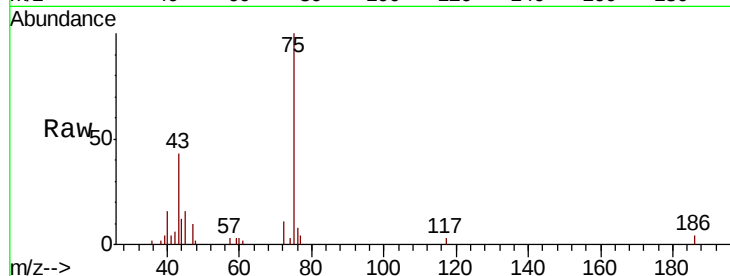




#37
Ethyl Acetate
Concen: 2.746 ug/l
RT: 7.17 min Scan# 864
Delta R.T. -0.08 min
Lab File: VW011040.D
Acq: 28 Jun 2019 02:44

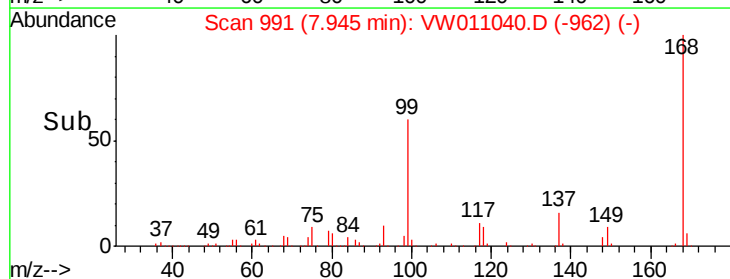
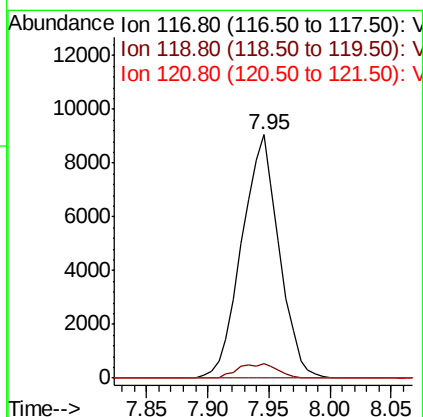
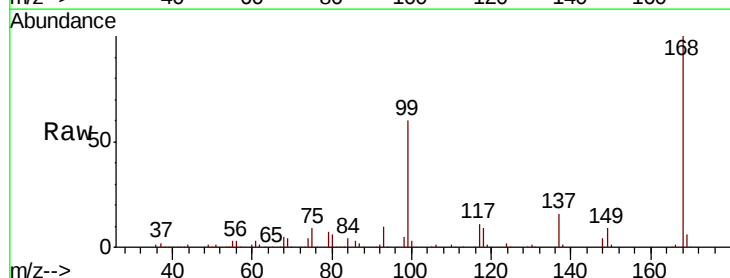
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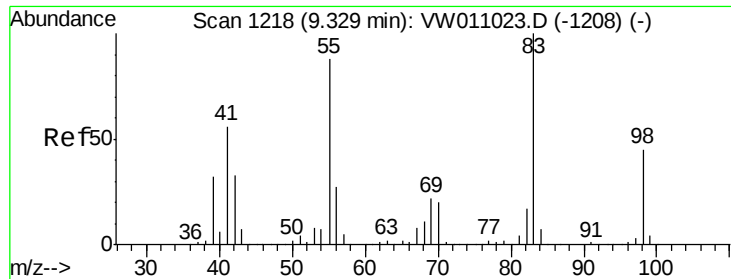
Tot Ion: 43 Resp: 5409
Ion Ratio Lower Upper
43 100
61 0.0 9.0 13.4#
70 0.0 7.2 10.8#



#38
Carbon Tetrachloride
Concen: 6.886 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW011040.D
Acq: 28 Jun 2019 02:44

Tgt Ion: 117 Resp: 19199
Ion Ratio Lower Upper
117 100
119 6.1 77.7 116.5#
121 0.0 23.9 35.9#

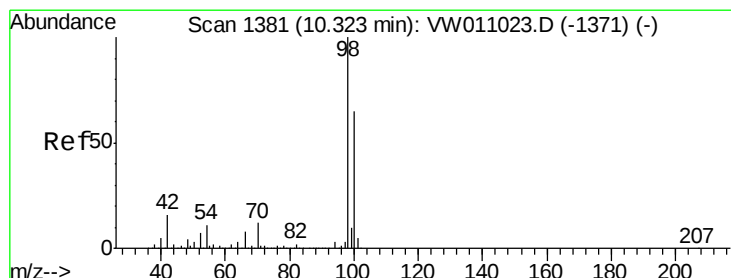
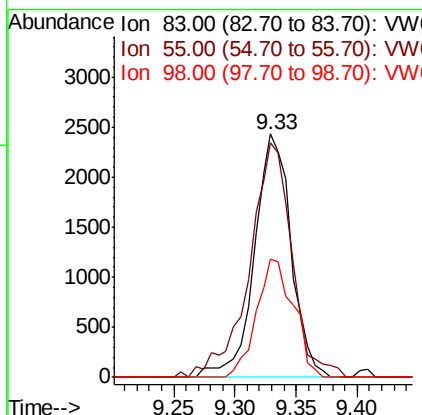
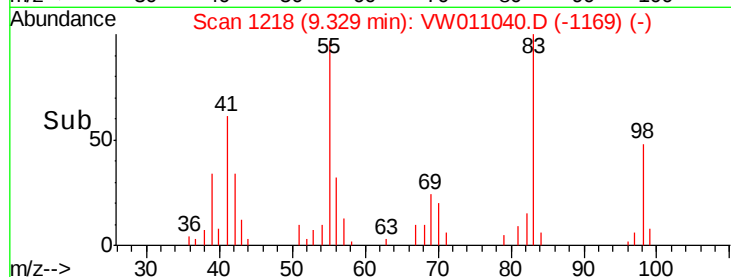
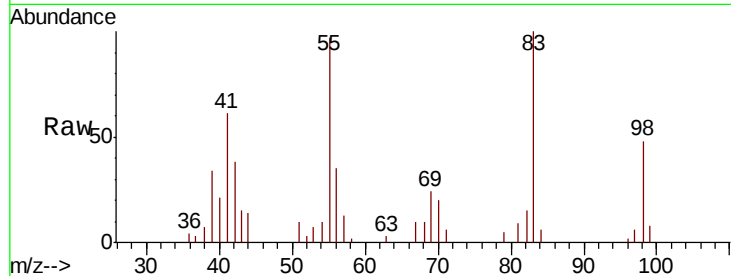




#39
Methylcyclohexane
Concen: 1.220 ug/l
RT: 9.33 min Scan# 1218
Delta R.T. 0.00 min
Lab File: VW011040.D
Acq: 28 Jun 2019 02:44

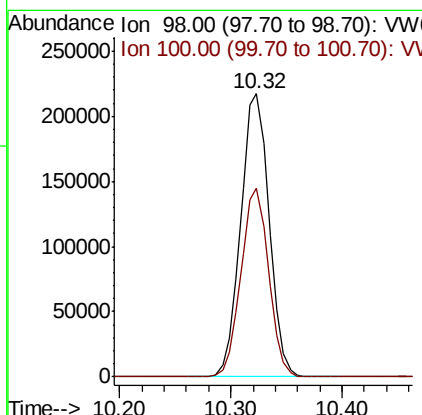
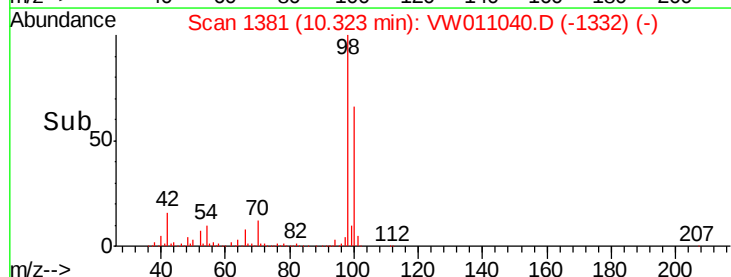
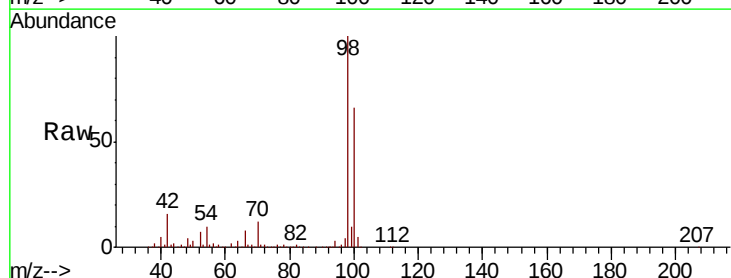
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CL-02-062619-B

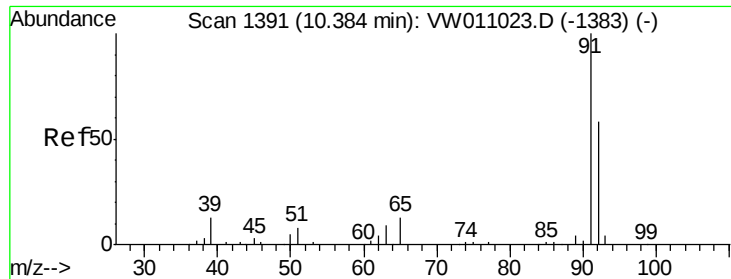
Tot Ion: 83 Resp: 5083
Ion Ratio Lower Upper
83 100
55 96.6 70.7 106.1
98 48.3 36.4 54.6



#50
Toluene-d8
Concen: 48.631 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW011040.D
Acq: 28 Jun 2019 02:44

Tgt Ion: 98 Resp: 385029
Ion Ratio Lower Upper
98 100
100 65.0 52.3 78.5





#52

Toluene

Concen: 3.768 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW011040.D

Acq: 28 Jun 2019 02:44

Instrument :

MSVOA_W

ClientSampleId :

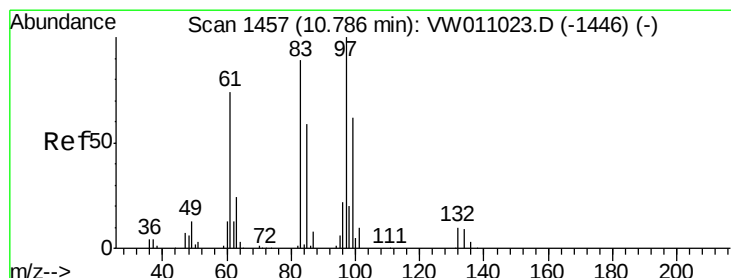
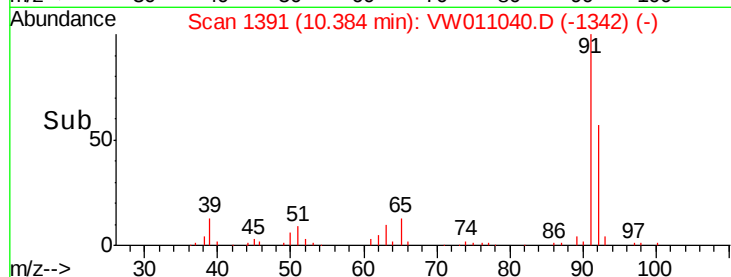
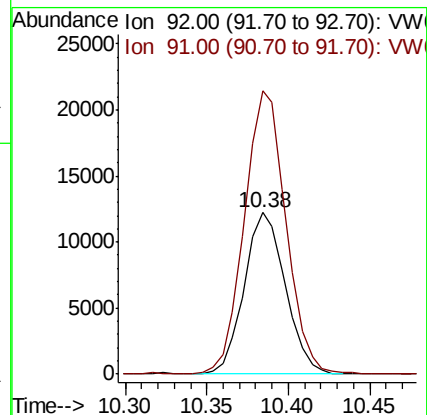
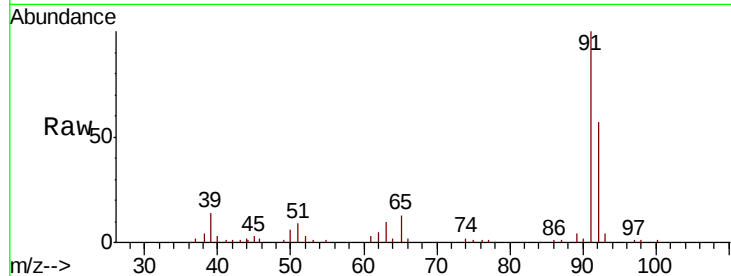
CL-02-062619-B

Tot Ion: 92 Resp: 21481

Ion Ratio Lower Upper

92 100

91 176.9 136.9 205.3



#55

1,1,2-Trichloroethane

Concen: 1.660 ug/l

RT: 10.76 min Scan# 1452

Delta R.T. -0.03 min

Lab File: VW011040.D

Acq: 28 Jun 2019 02:44

Tgt Ion: 97 Resp: 2774

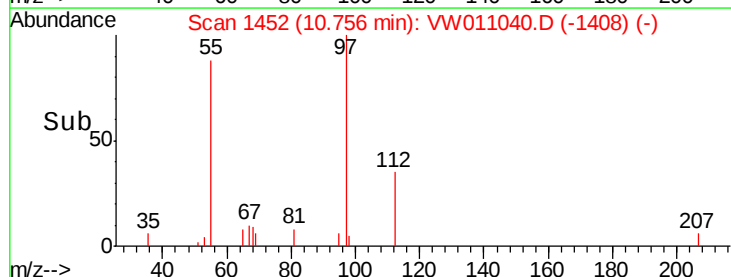
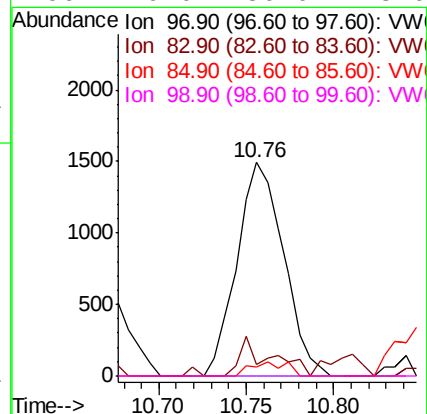
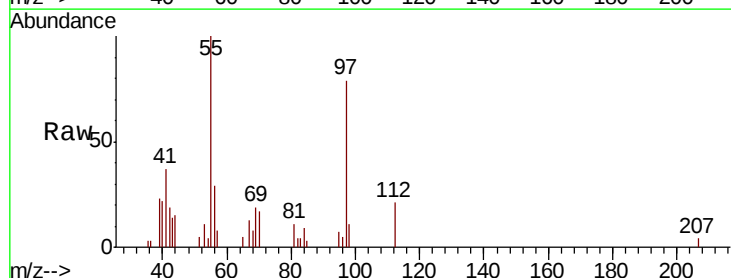
Ion Ratio Lower Upper

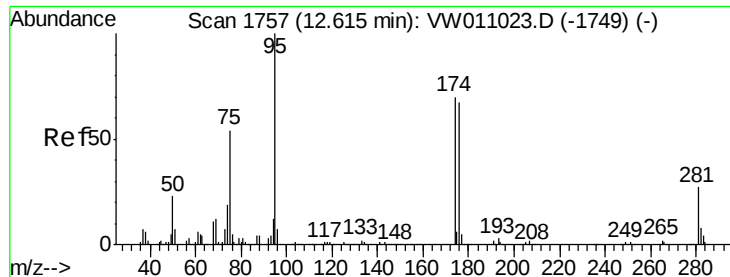
97 100

83 0.9 70.9 106.3#

85 4.0 47.2 70.8#

99 0.0 50.0 75.0#





#62

4-Bromofluorobenzene

Concen: 41.969 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VW011040.D

Acq: 28 Jun 2019 02:44

Instrument :

MSVOA_W

ClientSampleId :

CL-02-062619-B

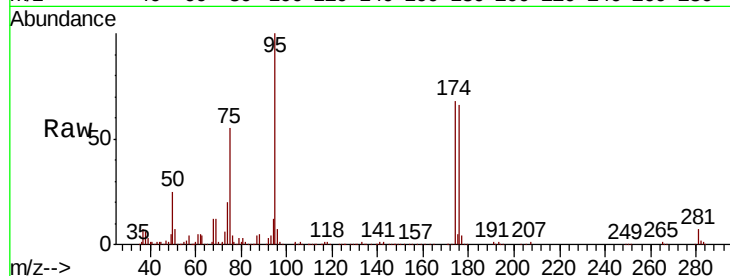
Tot Ion: 95 Resp: 121532

Ion Ratio Lower Upper

95 100

174 74.1 0.0 149.2

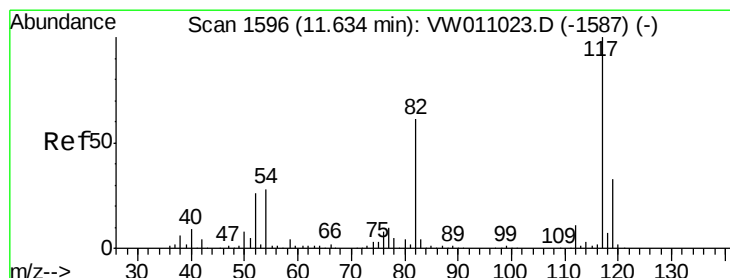
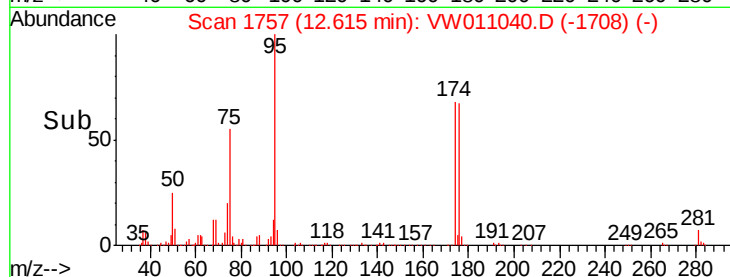
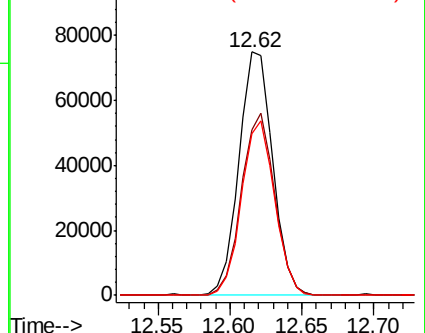
176 70.7 0.0 143.6



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1595

Delta R.T. -0.01 min

Lab File: VW011040.D

Acq: 28 Jun 2019 02:44

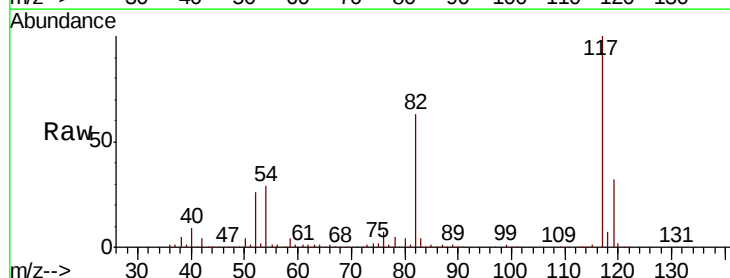
Tgt Ion: 117 Resp: 260988

Ion Ratio Lower Upper

117 100

82 62.7 48.6 73.0

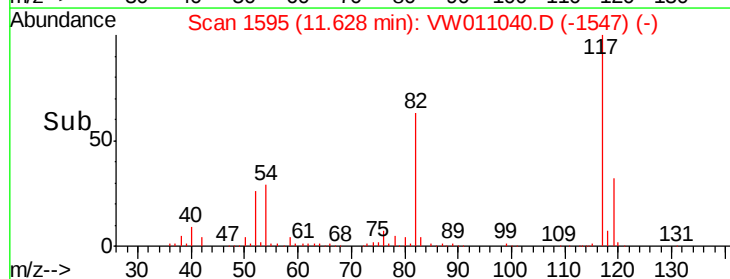
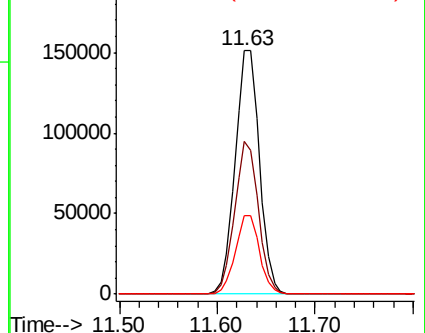
119 32.2 26.1 39.1

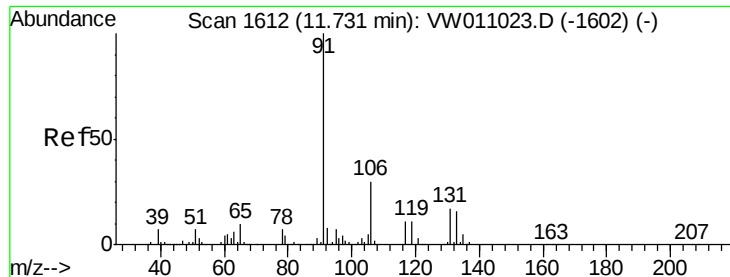


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW

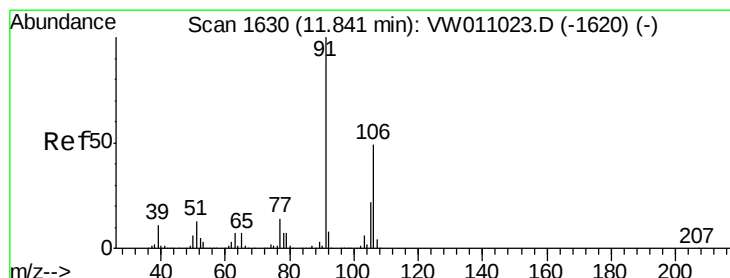
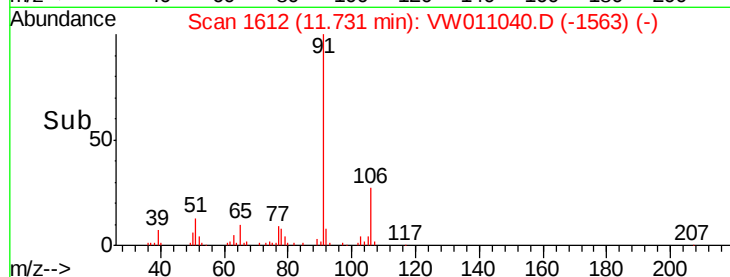
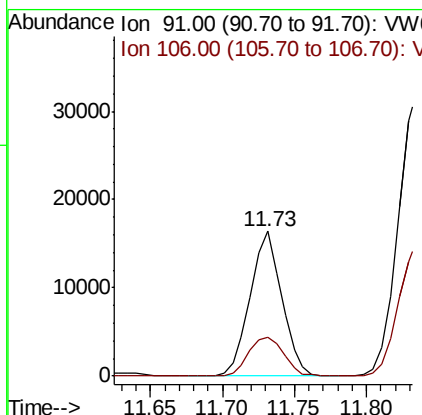
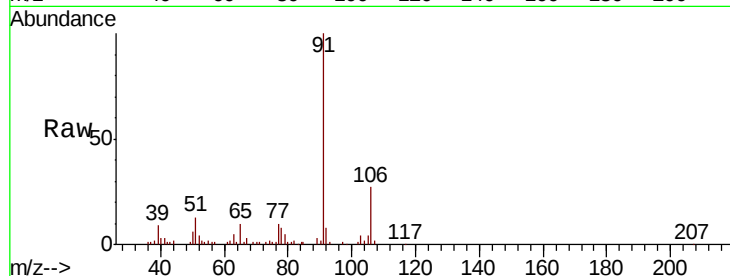




#67
Ethyl Benzene
Concen: 2.468 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW011040.D
Acq: 28 Jun 2019 02:44

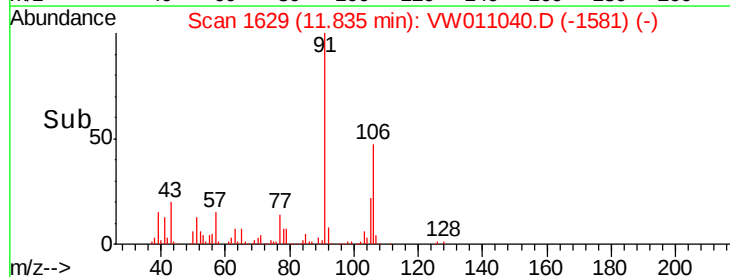
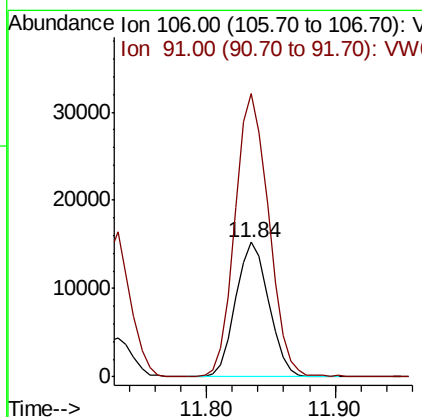
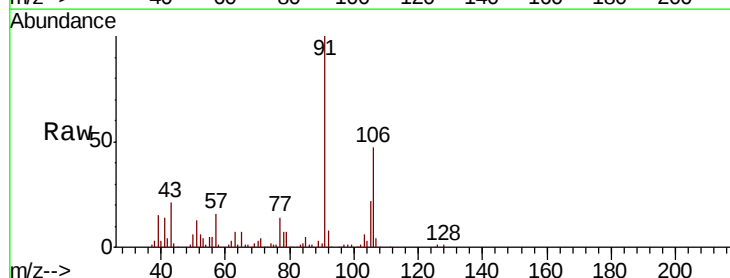
Instrument :
MSVOA_W
ClientSampled :
CL-02-062619-B

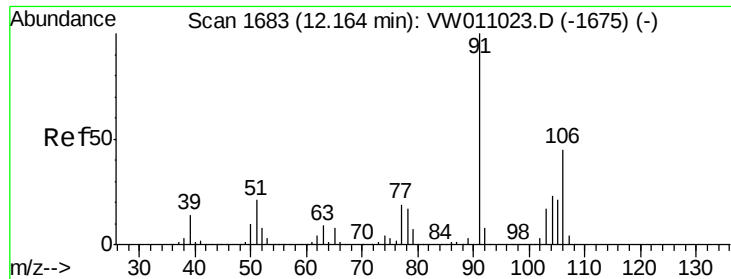
Tot Ion: 91 Resp: 25252
Ion Ratio Lower Upper
91 100
106 27.1 23.8 35.6



#68
m/p-Xylenes
Concen: 7.370 ug/l
RT: 11.84 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW011040.D
Acq: 28 Jun 2019 02:44

Tgt Ion: 106 Resp: 27366
Ion Ratio Lower Upper
106 100
91 213.2 167.5 251.3

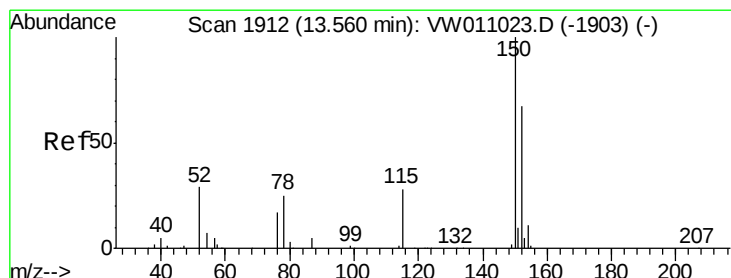
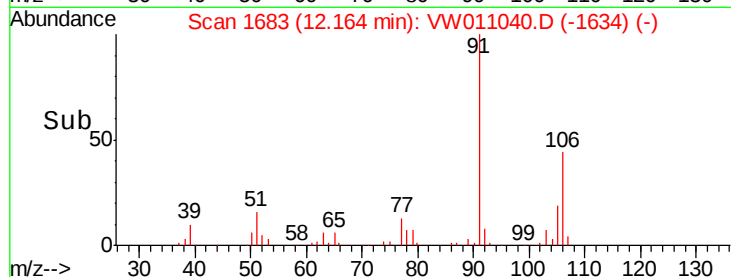
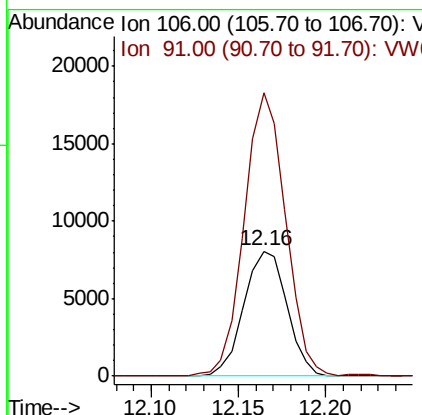
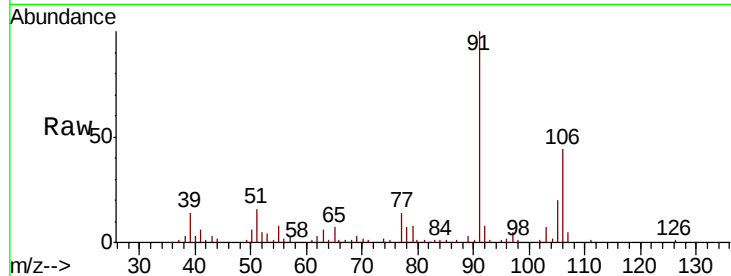




#69
o-Xylene
Concen: 4.004 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW011040.D
Acq: 28 Jun 2019 02:44

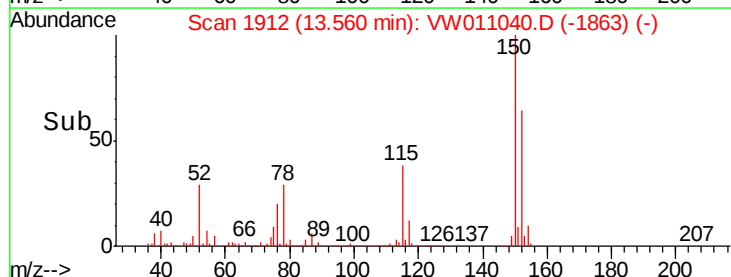
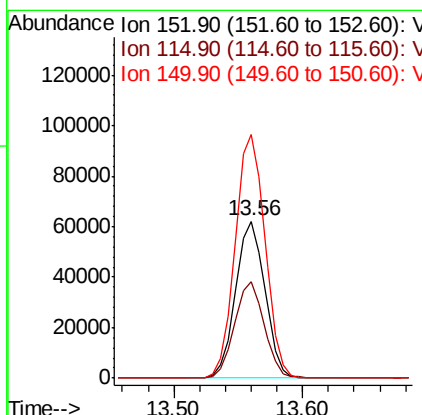
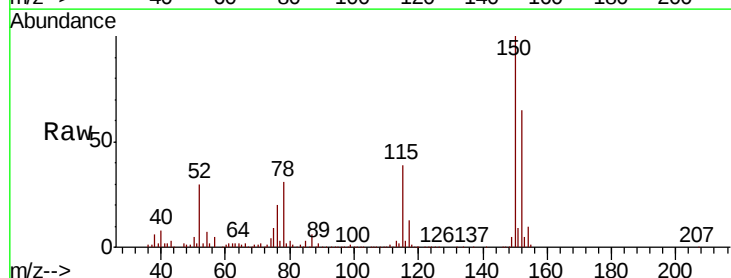
Instrument :
MSVOA_W
ClientSampleId :
CL-02-062619-B

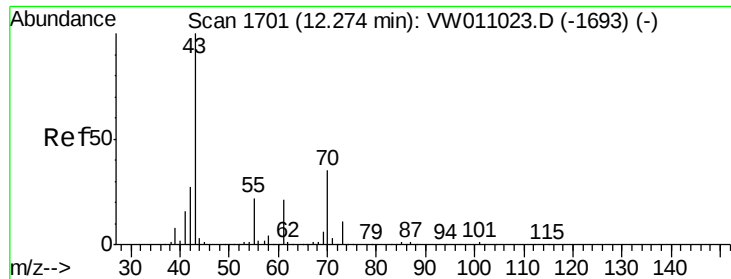
Tot Ion:106 Resp: 13847
Ion Ratio Lower Upper
106 100
91 217.7 110.8 332.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW011040.D
Acq: 28 Jun 2019 02:44

Tgt Ion:152 Resp: 98762
Ion Ratio Lower Upper
152 100
115 62.2 30.7 92.1
150 156.7 0.0 341.8





#74

N-amvl acetate

Concen: 1.405 ug/l

RT: 12.25 min Scan# 1697

Delta R.T. -0.02 min

Lab File: VW011040.D

Acq: 28 Jun 2019 02:44

Instrument :

MSVOA_W

ClientSampleId :

CL-02-062619-B

Tot Ion: 43 Resp: 3490

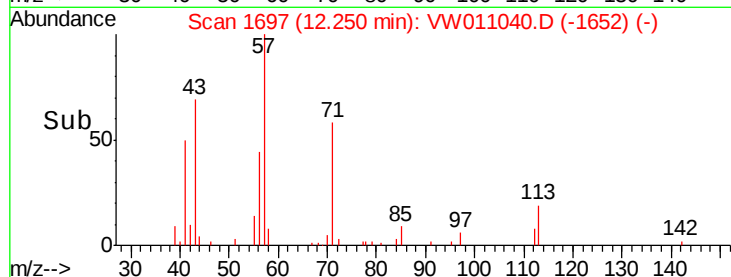
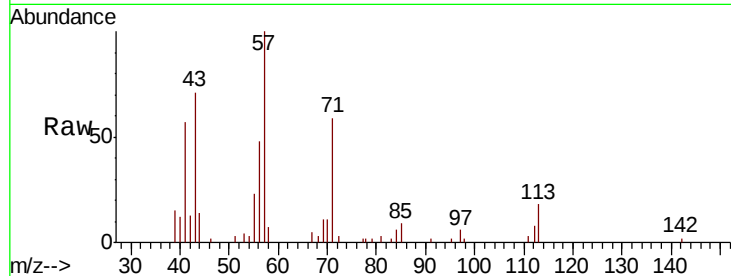
Ion Ratio Lower Upper

43 100

70 24.7 28.2 42.4#

55 37.2 17.8 26.8#

61 0.0 16.6 24.8#

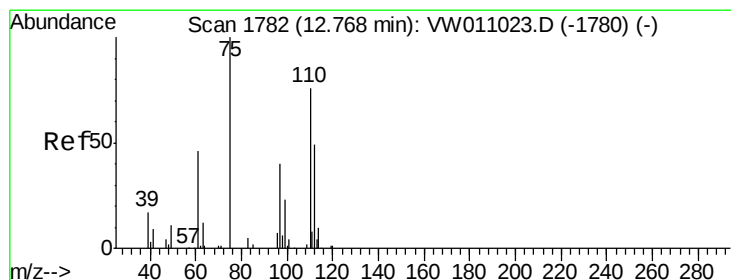
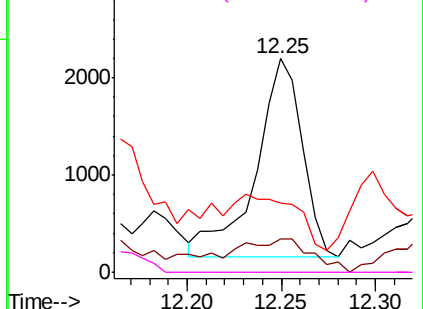


Abundance Ion 43.00 (42.70 to 43.70): VW

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



#76

1,2,3-Trichloropropane

Concen: 63.865 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW011040.D

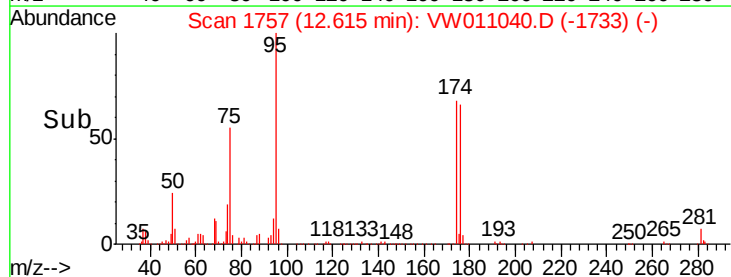
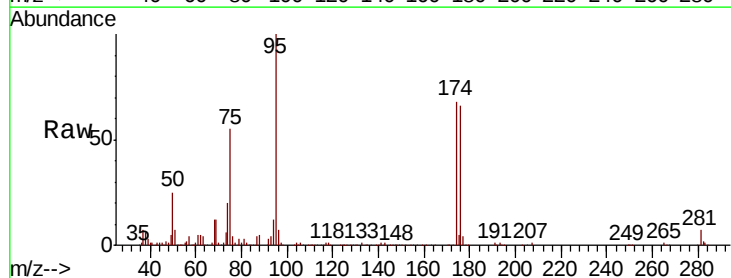
Acq: 28 Jun 2019 02:44

Tgt Ion: 75 Resp: 66590

Ion Ratio Lower Upper

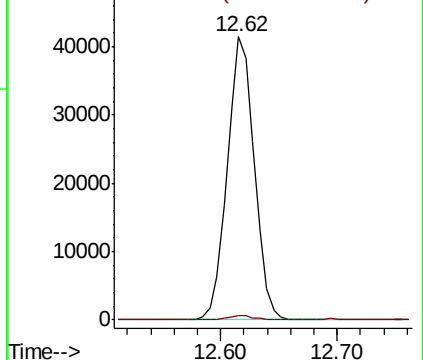
75 100

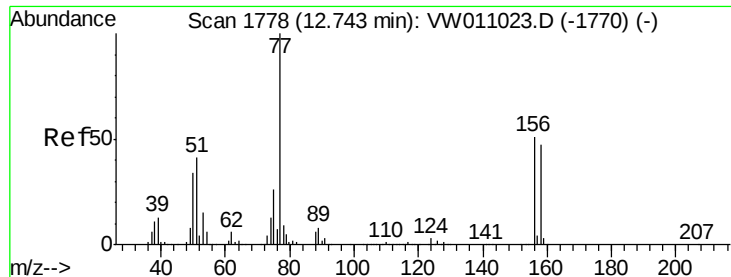
77 1.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 1.011 ug/l

RT: 12.86 min Scan# 1797

Delta R.T. 0.12 min

Lab File: VW011040.D

Acq: 28 Jun 2019 02:44

Instrument :

MSVOA_W

ClientSampled :

CL-02-062619-B

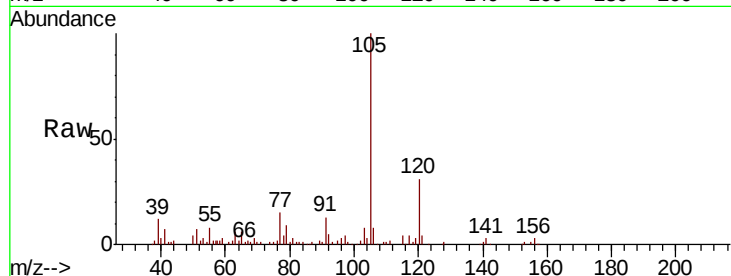
Tot Ion:156 Resp: 1644

Ion Ratio Lower Upper

156 100

77 318.1 109.5 328.5

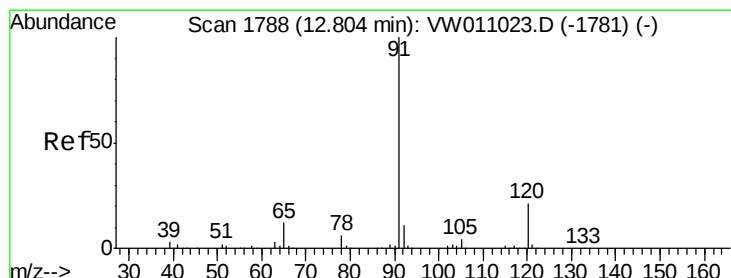
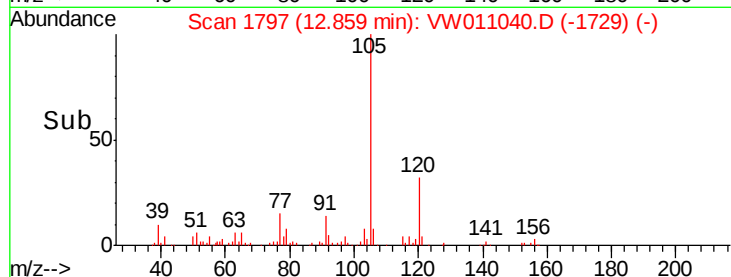
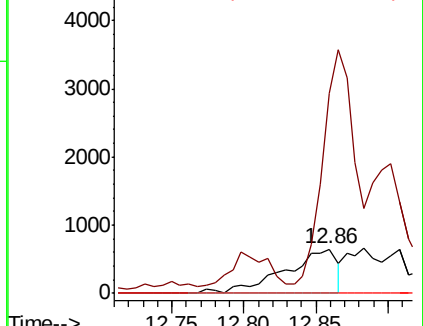
158 0.0 48.6 145.9#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 2.167 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. 0.00 min

Lab File: VW011040.D

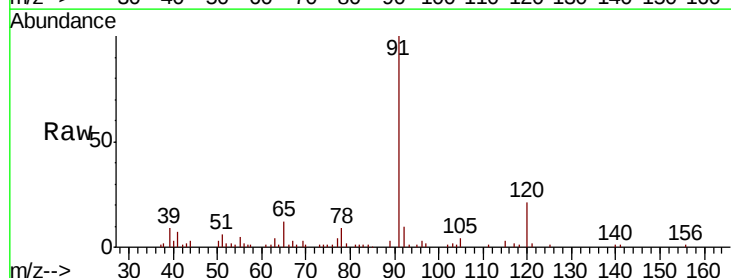
Acq: 28 Jun 2019 02:44

Tgt Ion: 91 Resp: 19850

Ion Ratio Lower Upper

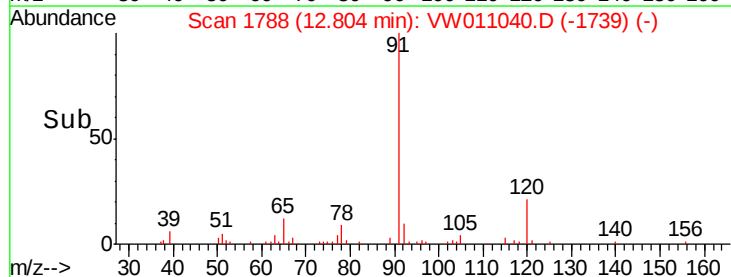
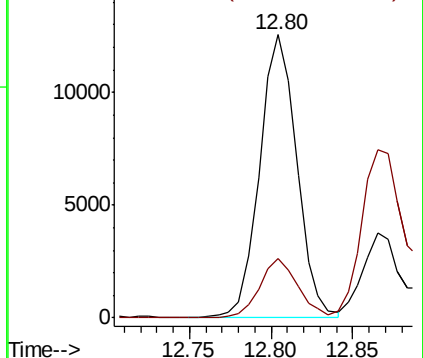
91 100

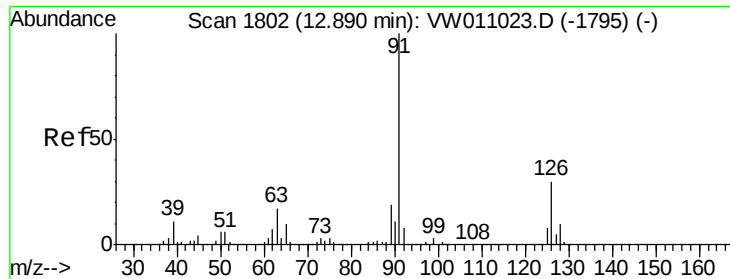
120 21.3 10.5 31.6



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V

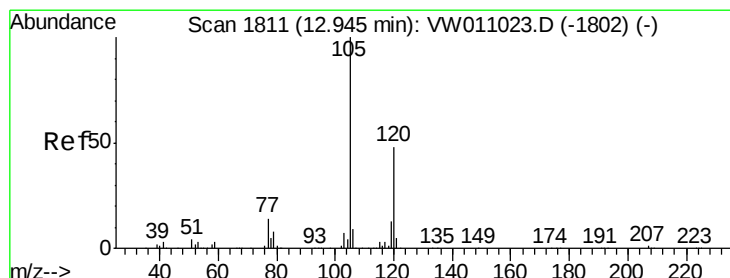
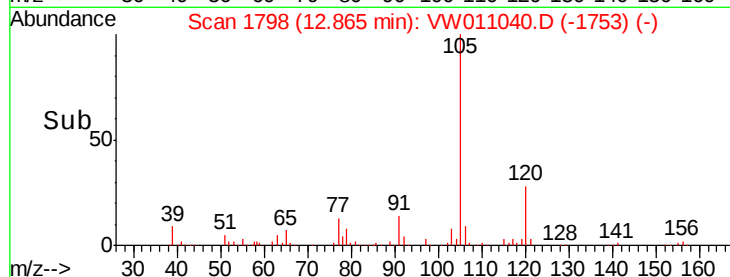
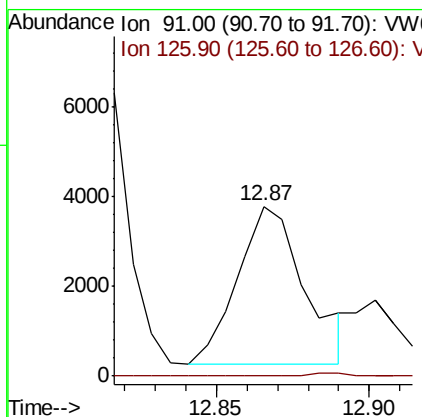
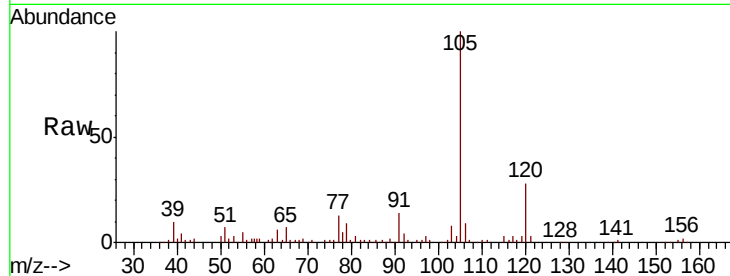




#79
2-Chlorotoluene
Concen: 1.034 ug/l
RT: 12.87 min Scan# 1798
Delta R.T. -0.02 min
Lab File: VW011040.D
Acq: 28 Jun 2019 02:44

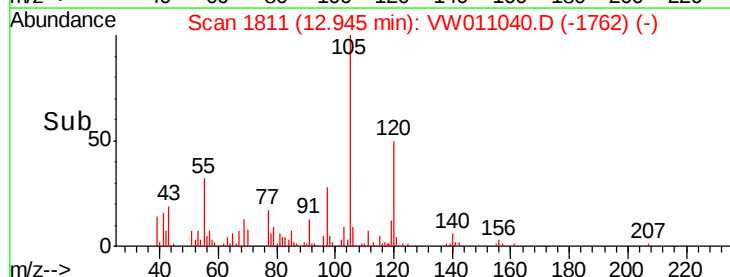
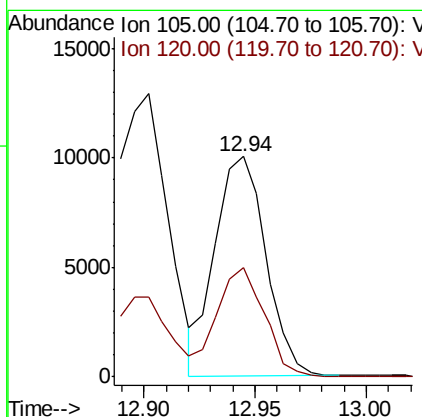
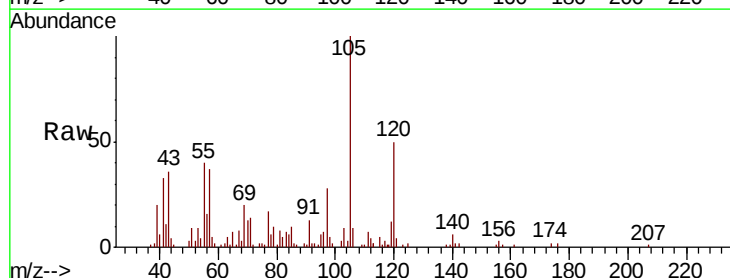
Instrument :
MSVOA_W
ClientSampleId :
CL-02-062619-B

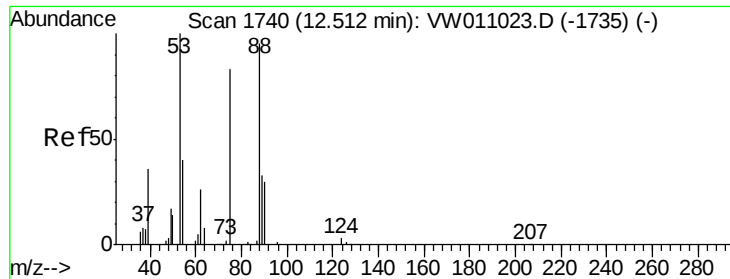
Tot Ion: 91 Resp: 5410
Ion Ratio Lower Upper
91 100
126 0.0 15.4 46.4#



#80
1,3,5-Trimethylbenzene
Concen: 2.541 ug/l
RT: 12.94 min Scan# 1811
Delta R.T. 0.00 min
Lab File: VW011040.D
Acq: 28 Jun 2019 02:44

Tgt Ion: 105 Resp: 15932
Ion Ratio Lower Upper
105 100
120 46.9 23.8 71.5





#81

trans-1,4-Dichloro-2-butene

Concen: 128.840 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW011040.D

Acq: 28 Jun 2019 02:44

Instrument :

MSVOA_W

ClientSampleId :

CL-02-062619-B

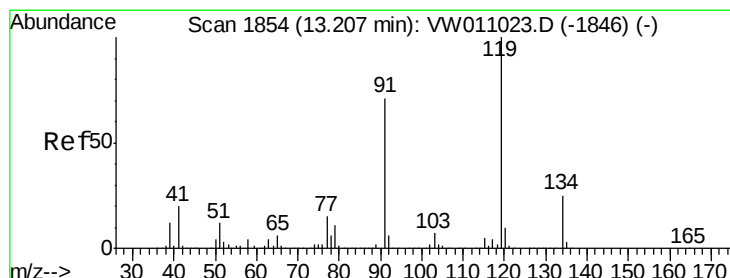
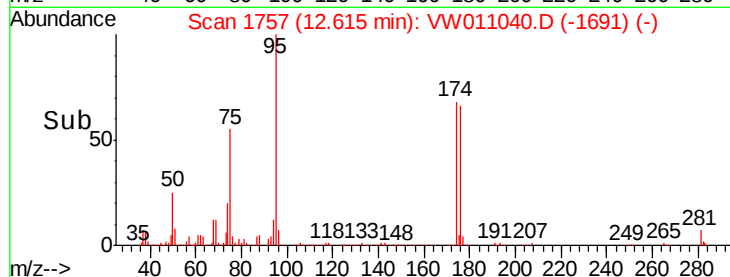
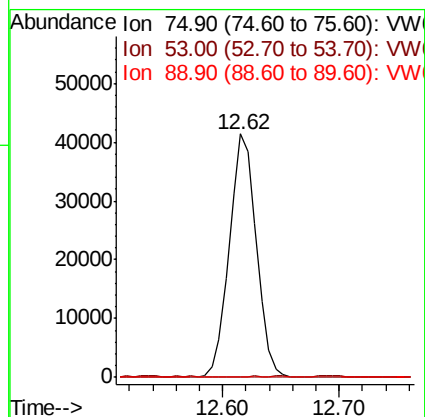
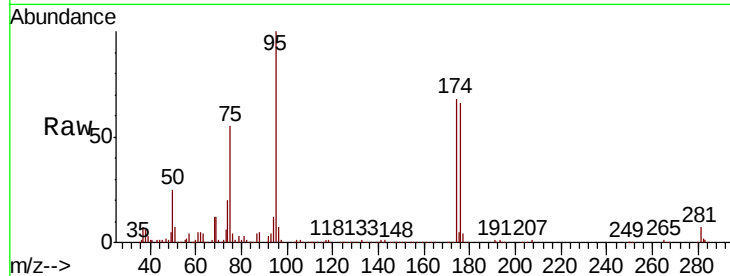
Tot Ion: 75 Resp: 66590

Ion Ratio Lower Upper

75 100

53 1.2 95.6 143.4#

89 0.0 34.4 51.6#



#83

tert-Butylbenzene

Concen: 1.160 ug/l

RT: 13.25 min Scan# 1861

Delta R.T. 0.04 min

Lab File: VW011040.D

Acq: 28 Jun 2019 02:44

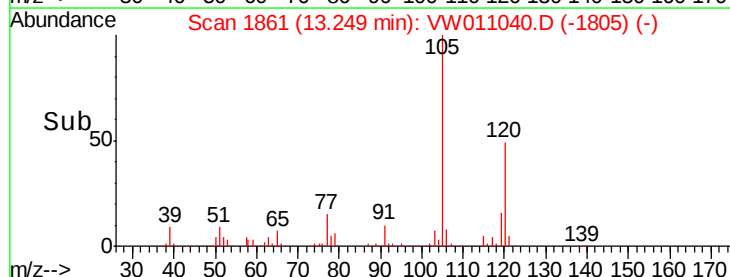
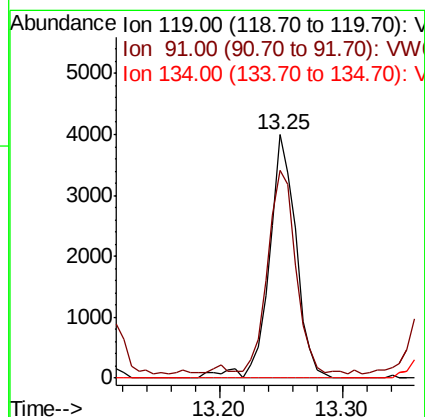
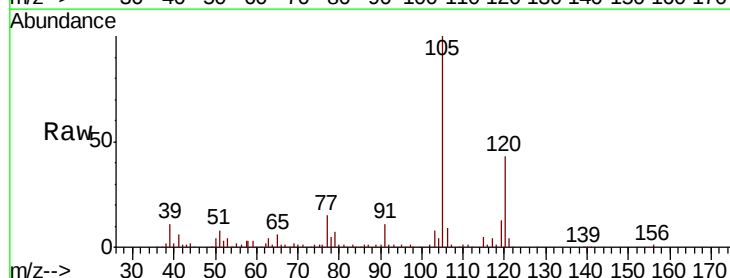
Tgt Ion: 119 Resp: 6067

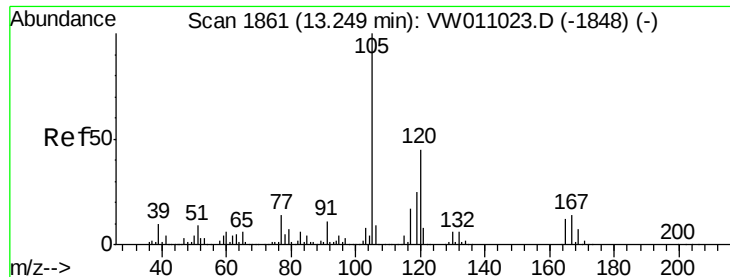
Ion Ratio Lower Upper

119 100

91 87.6 35.5 106.5

134 0.0 12.4 37.2#

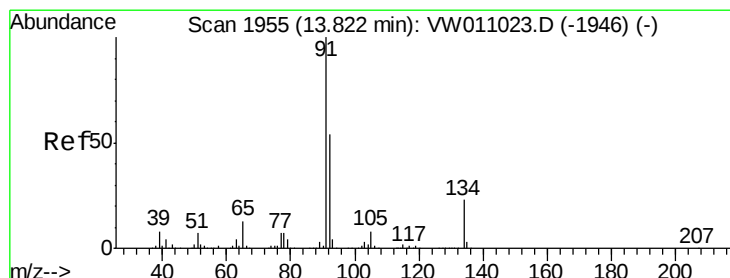
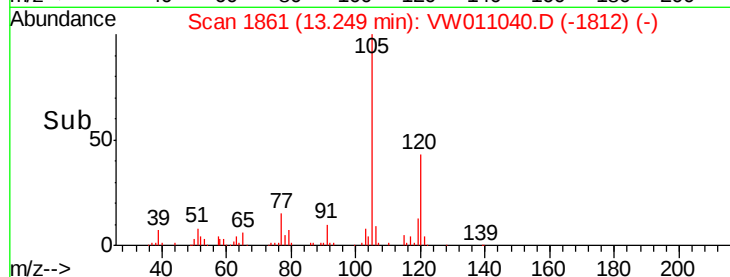
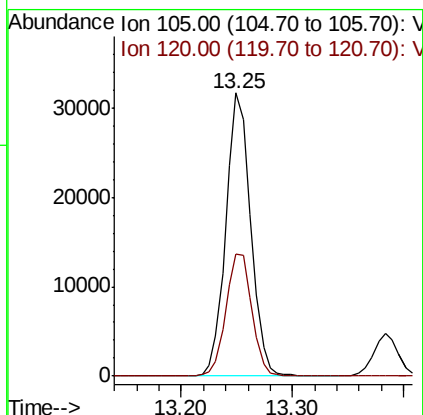
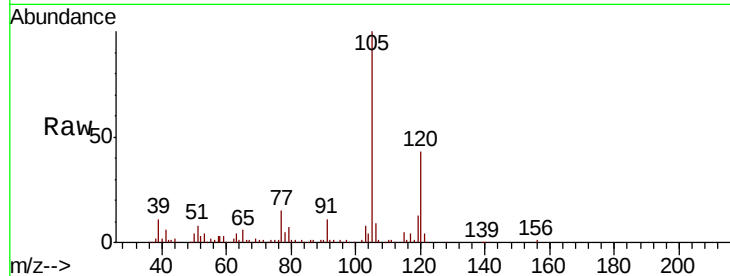




#84
 1,2,4-Trimethylbenzene
 Concen: 7.720 ug/l
 RT: 13.25 min Scan# 1861
 Delta R.T. 0.00 min
 Lab File: VW011040.D
 Acq: 28 Jun 2019 02:44

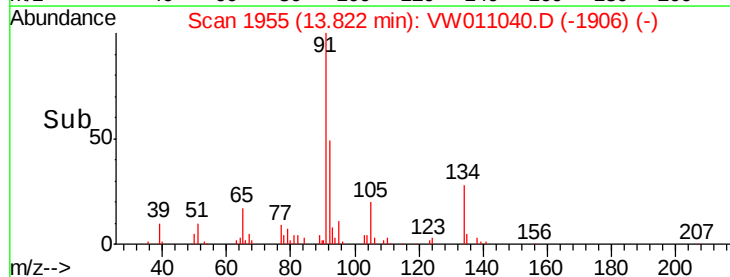
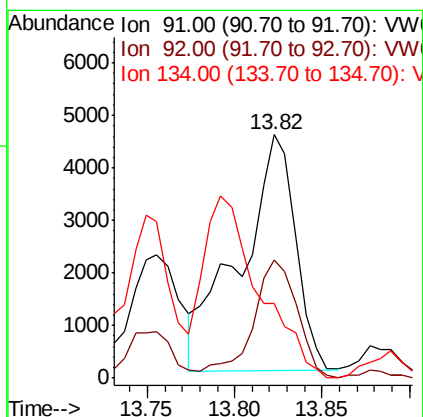
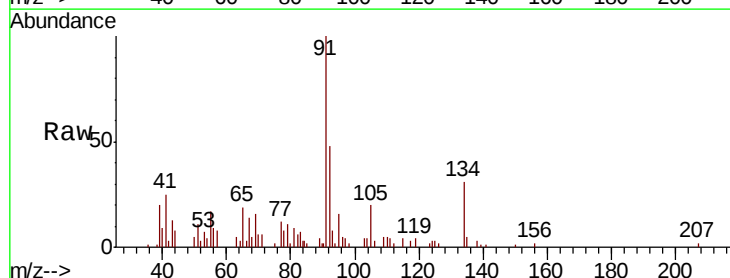
Instrument :
 MSVOA_W
 ClientSampleId :
 CL-02-062619-B

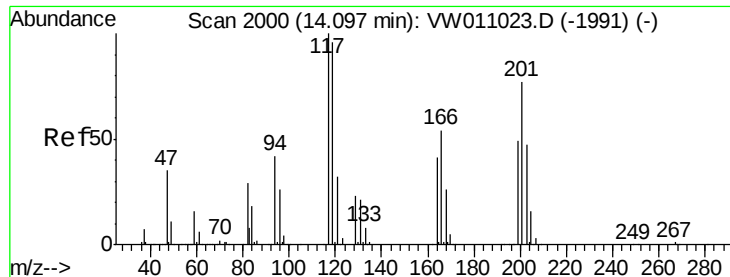
Tot Ion:105 Resp: 48930
 Ion Ratio Lower Upper
 105 100
 120 44.9 22.4 67.2



#89
 n-Butylbenzene
 Concen: 1.416 ug/l
 RT: 13.82 min Scan# 1955
 Delta R.T. 0.00 min
 Lab File: VW011040.D
 Acq: 28 Jun 2019 02:44

Tgt Ion: 91 Resp: 9838
 Ion Ratio Lower Upper
 91 100
 92 40.3 27.1 81.2
 134 0.0 12.0 36.1#





#90

Hexachloroethane

Concen: 1.131 ug/l

RT: 14.10 min Scan# 2001

Delta R.T. 0.01 min

Lab File: VW011040.D

Acq: 28 Jun 2019 02:44

Instrument :

MSVOA_W

ClientSampleId :

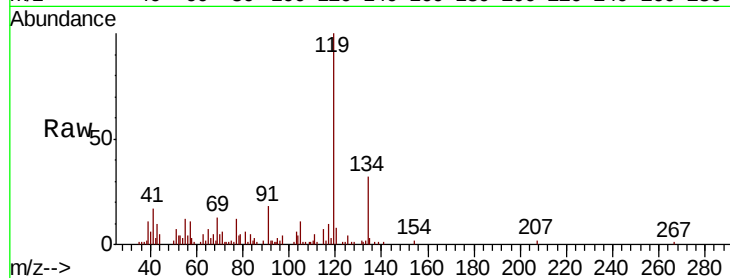
CL-02-062619-B

Tot Ion:117 Resp: 1323

Ion Ratio Lower Upper

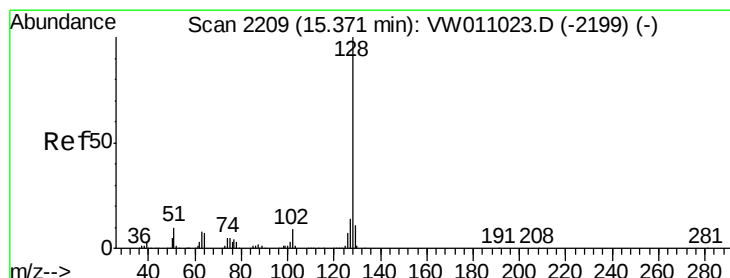
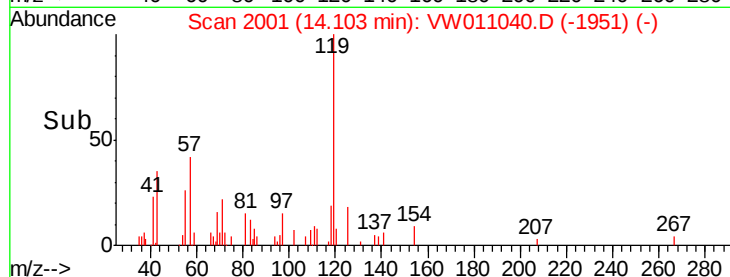
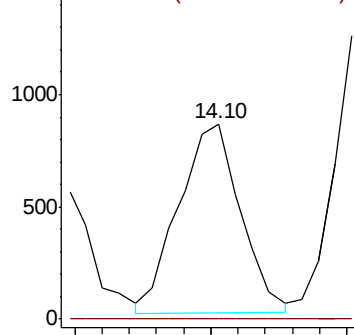
117 100

201 0.0 38.0 114.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 1.192 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. -0.01 min

Lab File: VW011040.D

Acq: 28 Jun 2019 02:44

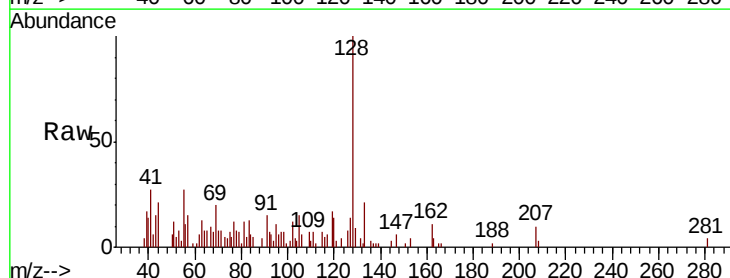
Tgt Ion:128 Resp: 4552

Ion Ratio Lower Upper

128 100

127 21.9 10.7 16.1#

129 16.0 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

