

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW091019\
 Data File : VW012903.D
 Acq On : 11 Sep 2019 07:05
 Operator : SY/VA
 Sample : K4662-01
 Misc : 6.72G/5ML/MSVOA_W/SOIL
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 CL-01-090619

Quant Time: Sep 11 08:25:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W090719S.M
 Quant Title : SW846 8260
 QLast Update : Sun Sep 08 05:04:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	239540	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	362618	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	306375	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	117293	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	134133	50.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.24%	
35) Dibromofluoromethane	7.88	113	106228	49.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.54%	
50) Toluene-d8	10.32	98	433308	51.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.60%	
62) 4-Bromofluorobenzene	12.62	95	133770	43.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.26%	

Target Compounds

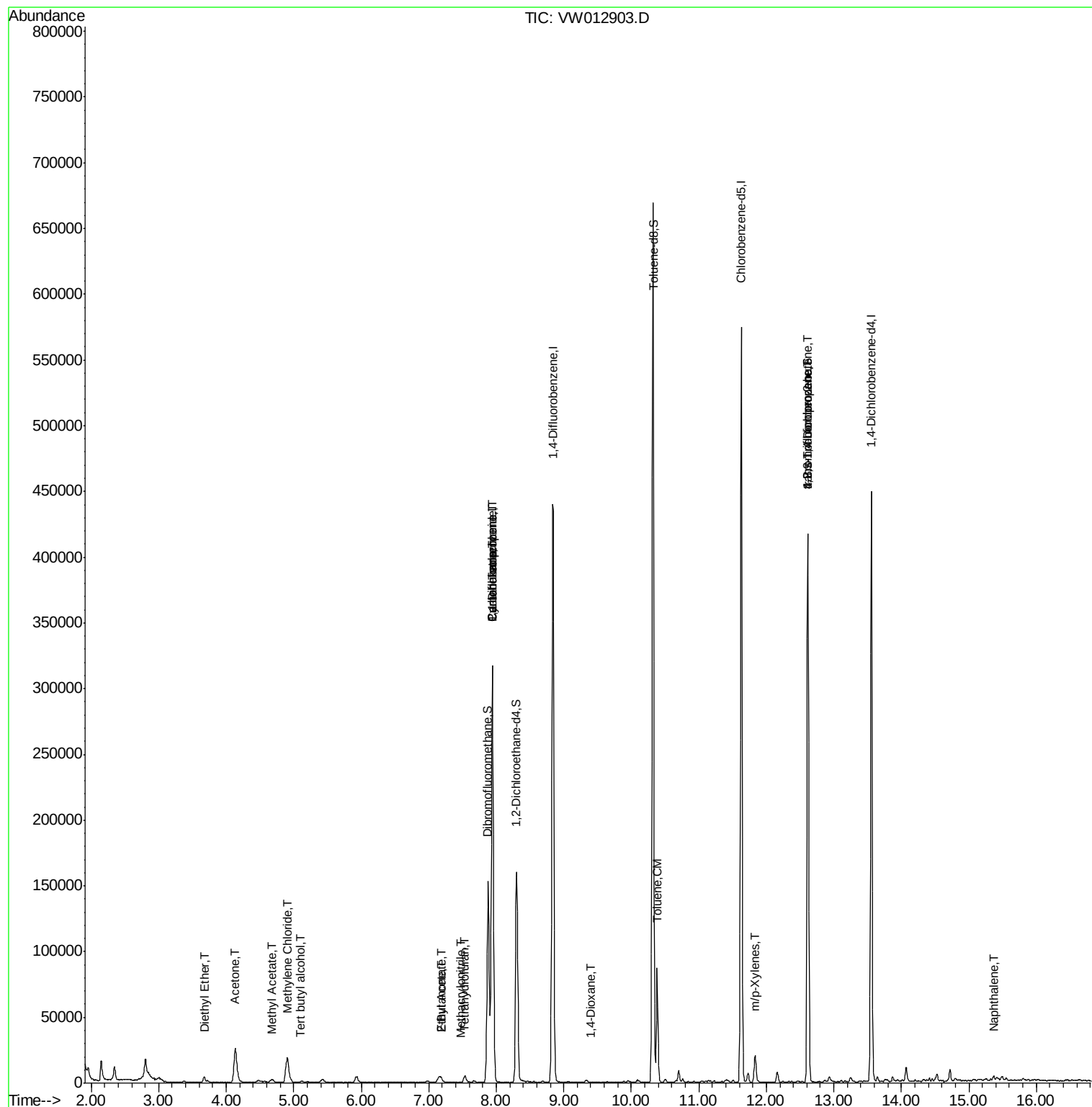
						Qvalue
8) Diethyl Ether	3.68	74	1996	1.778	ug/l	84
11) Tert butyl alcohol	5.10	59	797	3.892	ug/l #	72
16) Acetone	4.13	43	53408	73.196	ug/l	96
18) Methyl Acetate	4.67	43	5390	3.149	ug/l	100
20) Methylene Chloride	4.90	84	13962	6.116	ug/l	97
25) 2-Butanone	7.18	43	5182	24.124	ug/l	100
29) Tetrahydrofuran	7.54	42	4340	7.366	ug/l	97
31) Cyclohexane	7.94	56	5336	1.356	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	18117	5.623	ug/l #	53
37) Ethyl Acetate	7.18	43	5182	2.523	ug/l #	72
38) Carbon Tetrachloride	7.95	117	22553	7.101	ug/l #	16
41) Methacrylonitrile	7.48	41	116	3.915	ug/l #	27
49) 1,4-Dioxane	9.40	88	26	1.121	ug/l #	1
52) Toluene	10.38	92	34833	6.243	ug/l	99
68) m/p-Xylenes	11.83	106	5914	1.508	ug/l	84
76) 1,2,3-Trichloropropane	12.62	75	69418	57.879	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	69418	122.417	ug/l #	6
95) Naphthalene	15.37	128	3374	5.064	ug/l #	90

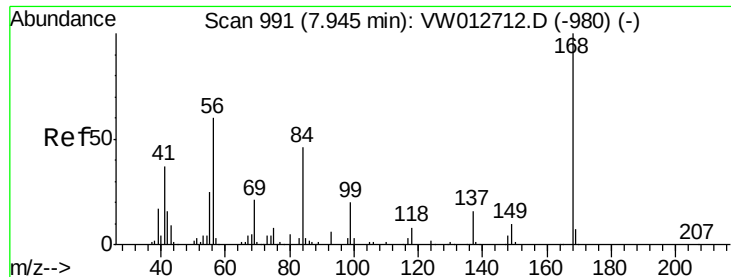
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW012903.D

Acq: 11 Sep 2019 07:05

Instrument :

MSVOA_W

ClientSampleId :

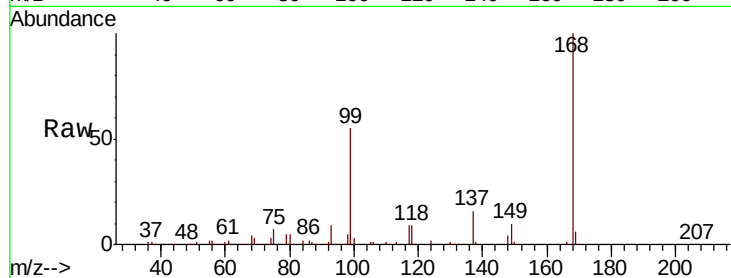
CL-01-090619

Tgt Ion:168 Resp: 239540

Ion Ratio Lower Upper

168 100

99 55.2 47.8 71.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

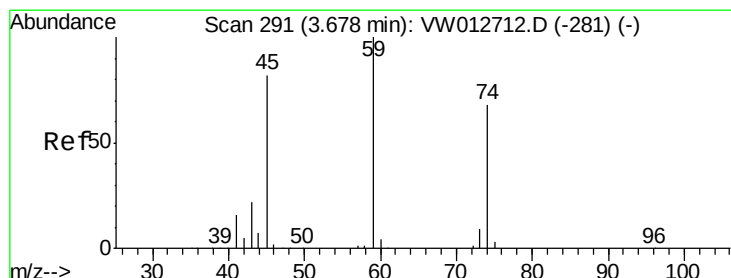
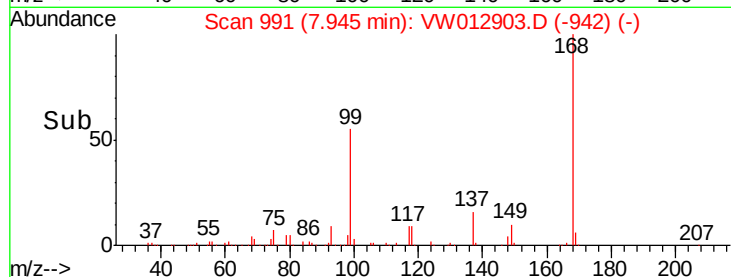
60000

40000

20000

0

Time--> 7.80 7.90 8.00



#8

Diethyl Ether

Concen: 1.778 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.00 min

Lab File: VW012903.D

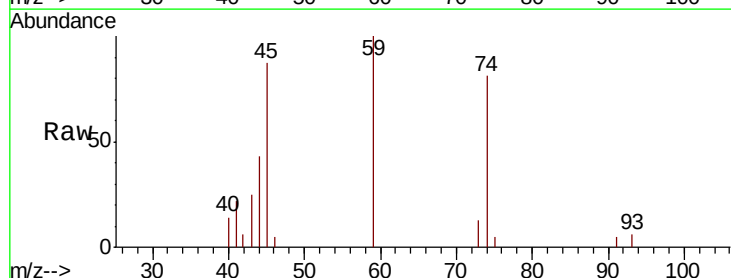
Acq: 11 Sep 2019 07:05

Tgt Ion: 74 Resp: 1996

Ion Ratio Lower Upper

74 100

45 134.7 58.8 176.4



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

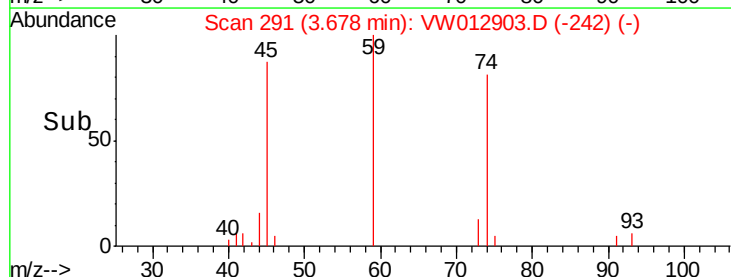
3.68

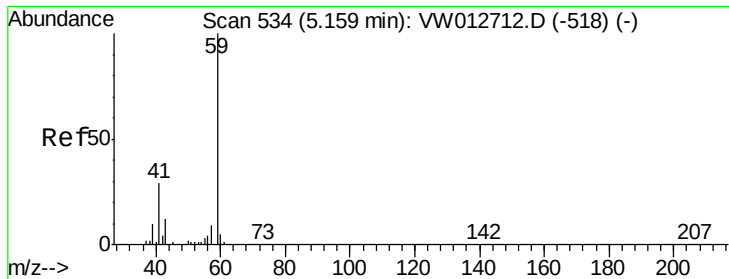
1000

500

0

Time--> 3.60 3.65 3.70 3.75



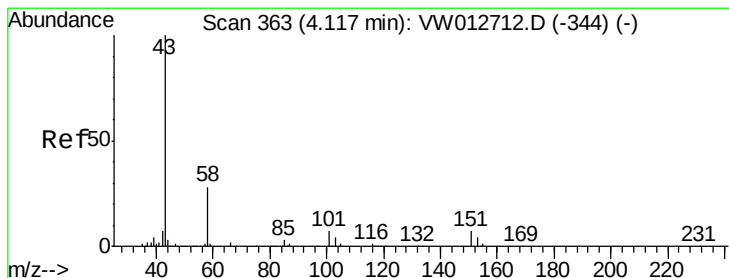
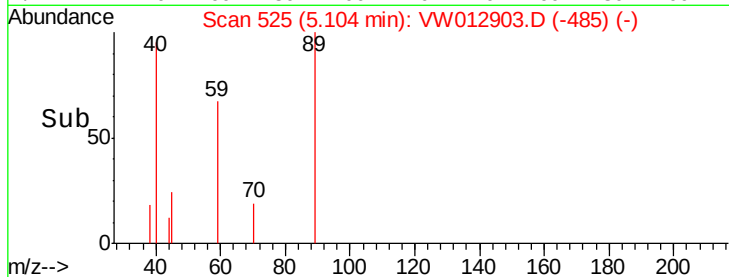
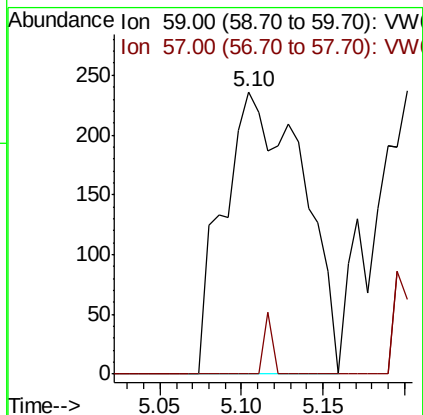
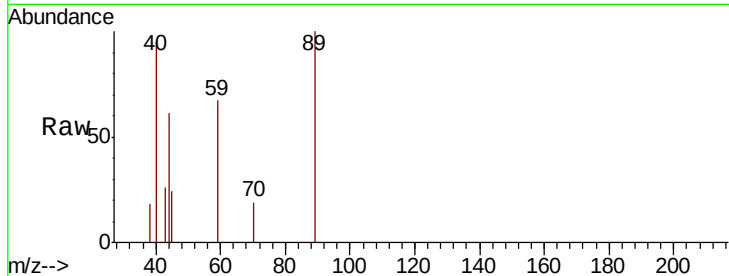


#11

Tert butyl alcohol
 Concen: 3.892 ug/l
 RT: 5.10 min Scan# 525
 Delta R.T. -0.06 min
 Lab File: VW012903.D
 Acq: 11 Sep 2019 07:05

Instrument :
 MSVOA_W
 ClientSampled :
 CL-01-090619

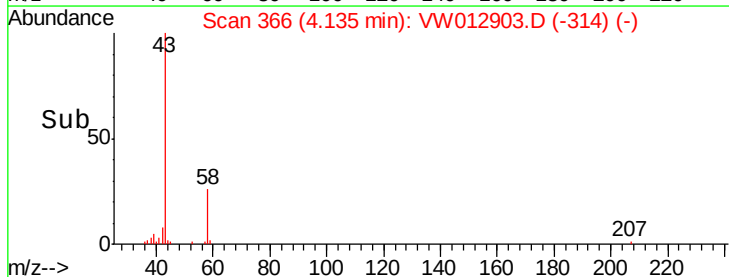
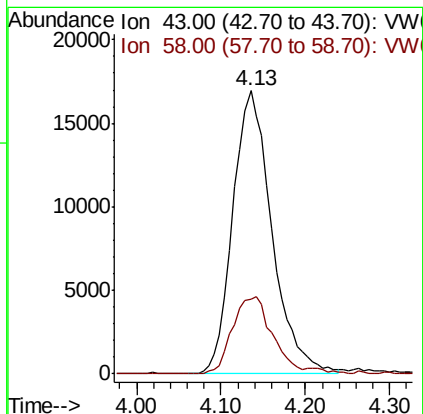
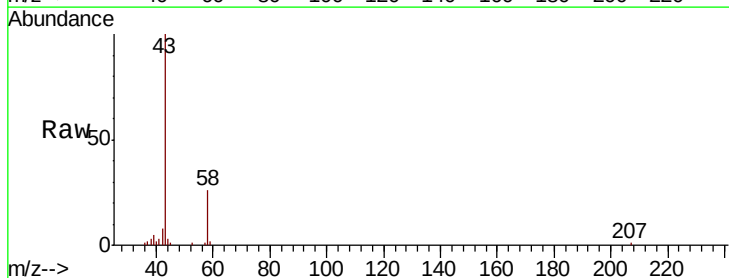
Tgt Ion: 59 Resp: 797
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.4#

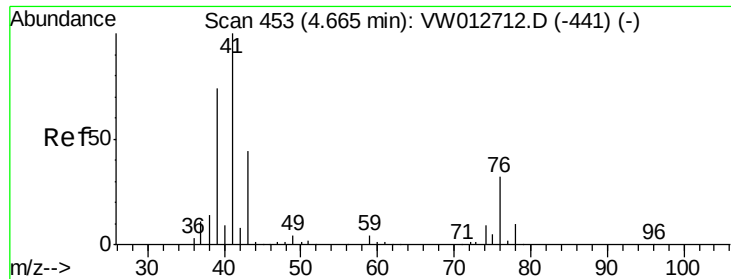


#16

Acetone
 Concen: 73.196 ug/l
 RT: 4.13 min Scan# 366
 Delta R.T. 0.02 min
 Lab File: VW012903.D
 Acq: 11 Sep 2019 07:05

Tgt Ion: 43 Resp: 53408
 Ion Ratio Lower Upper
 43 100
 58 26.3 22.6 33.8

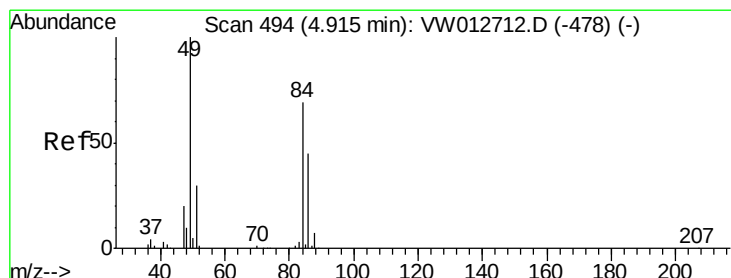
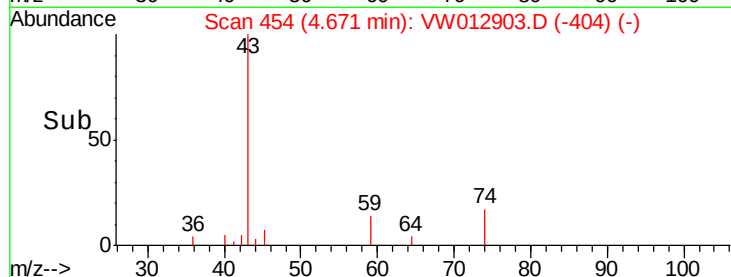
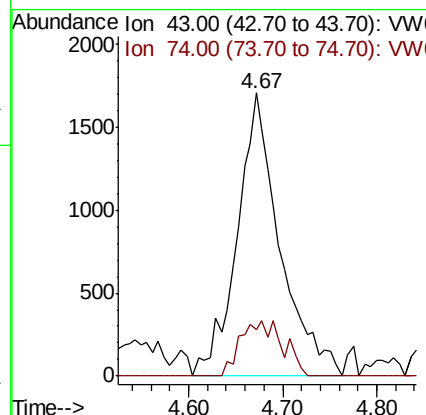
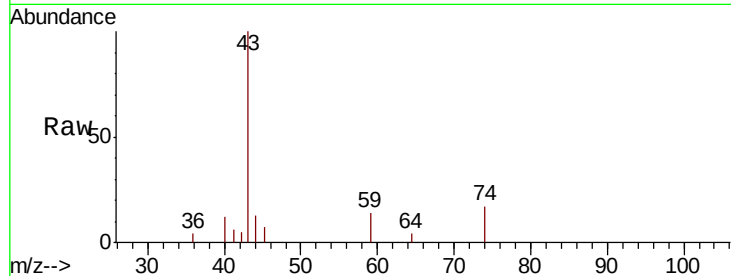




#18
Methyl Acetate
Concen: 3.149 ug/l
RT: 4.67 min Scan# 454
Delta R.T. 0.01 min
Lab File: VW012903.D
Acq: 11 Sep 2019 07:05

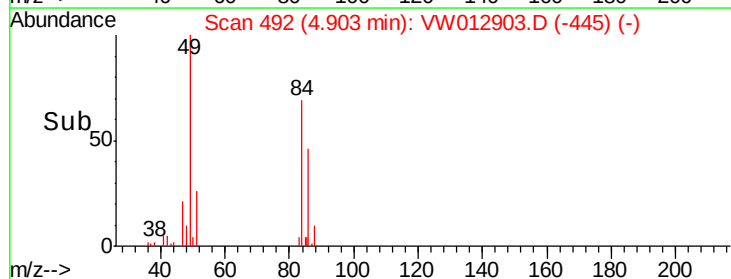
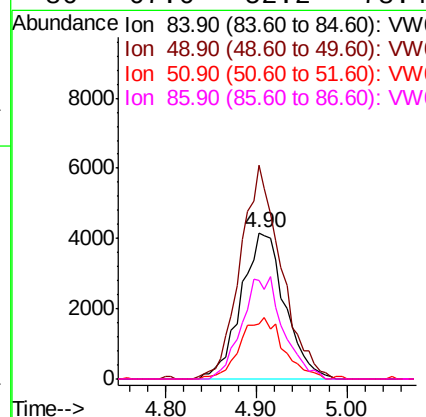
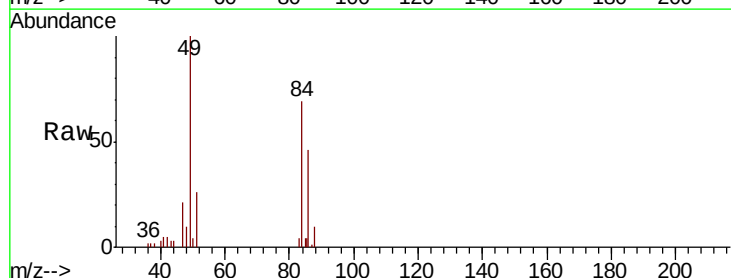
Instrument :
MSVOA_W
ClientSampleId :
CL-01-090619

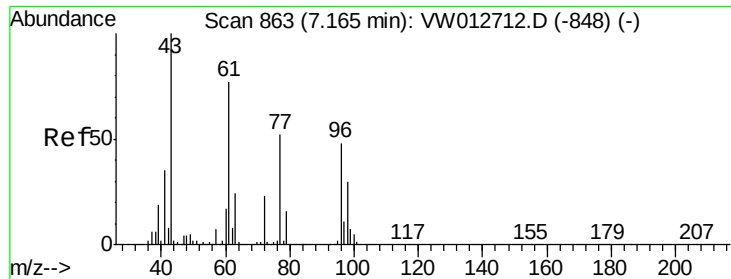
Tgt Ion: 43 Resp: 5390
Ion Ratio Lower Upper
43 100
74 19.5 15.8 23.6



#20
Methylene Chloride
Concen: 6.116 ug/l
RT: 4.90 min Scan# 492
Delta R.T. -0.01 min
Lab File: VW012903.D
Acq: 11 Sep 2019 07:05

Tgt Ion: 84 Resp: 13962
Ion Ratio Lower Upper
84 100
49 145.7 115.4 173.0
51 37.5 34.9 52.3
86 67.6 52.2 78.4





#25

2-Butanone

Concen: 24.124 ug/l

RT: 7.18 min Scan# 866

Delta R.T. 0.02 min

Lab File: VW012903.D

Acq: 11 Sep 2019 07:05

Instrument :

MSVOA_W

ClientSampleId :

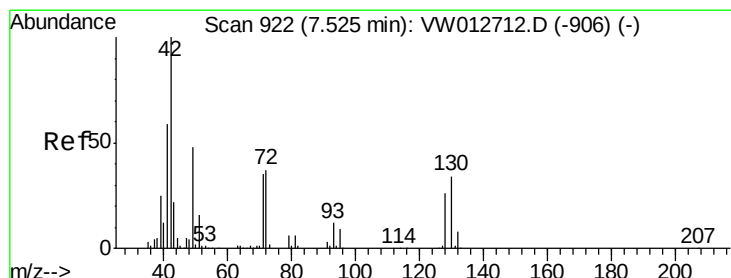
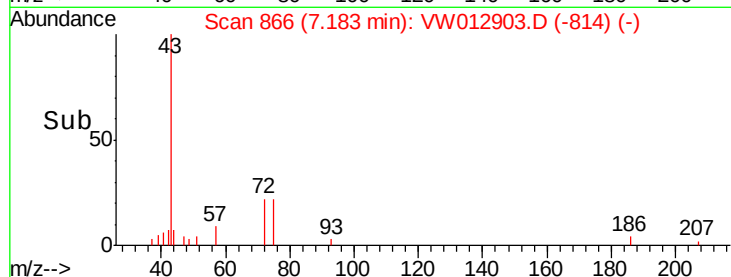
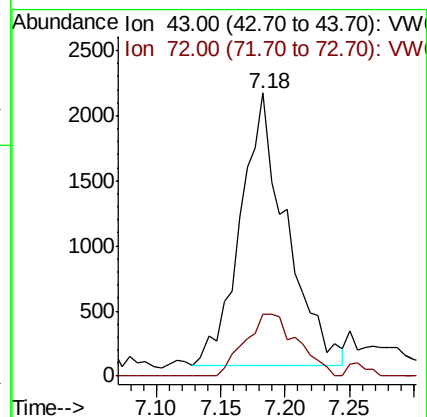
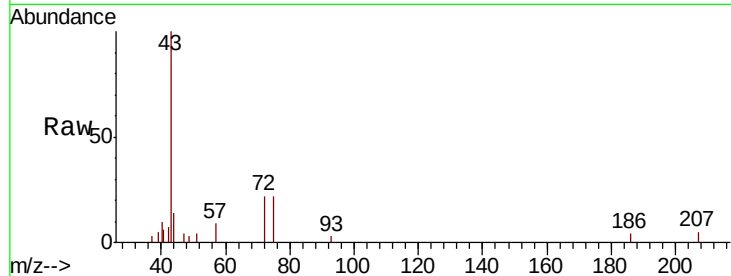
CL-01-090619

Tgt Ion: 43 Resp: 5182

Ion Ratio Lower Upper

43 100

72 22.7 18.0 27.0



#29

Tetrahydrofuran

Concen: 7.366 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW012903.D

Acq: 11 Sep 2019 07:05

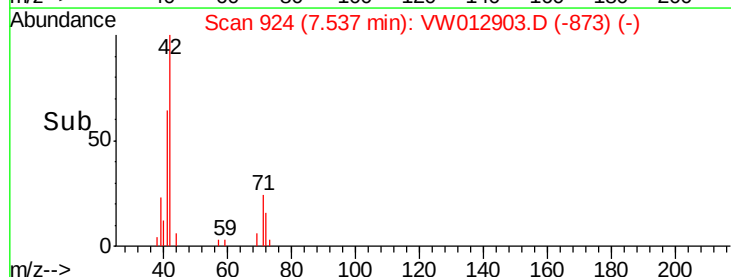
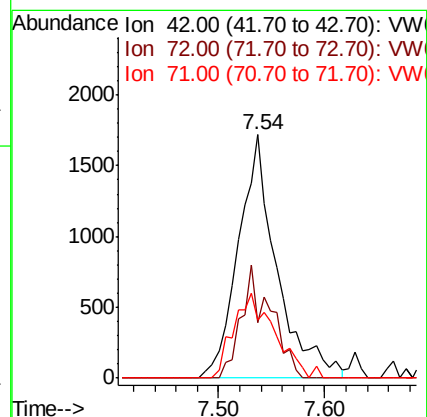
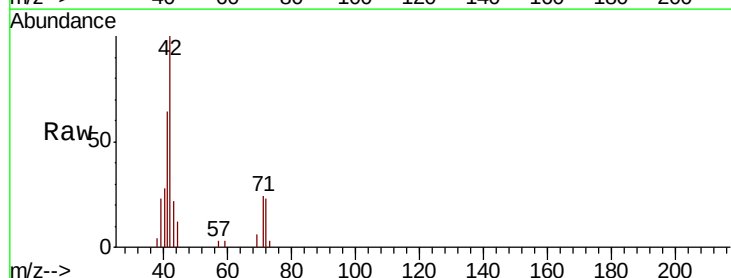
Tgt Ion: 42 Resp: 4340

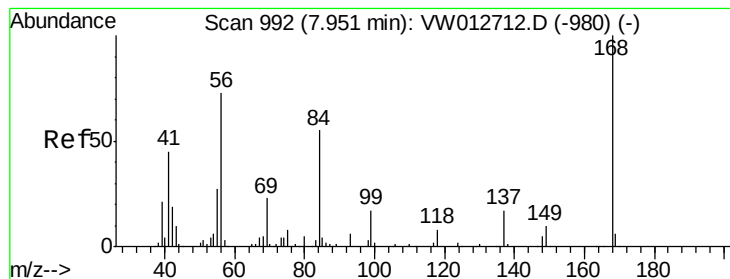
Ion Ratio Lower Upper

42 100

72 35.8 28.4 42.6

71 36.8 27.1 40.7





#31

Cyclohexane

Concen: 1.356 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW012903.D

Acq: 11 Sep 2019 07:05

Instrument :

MSVOA_W

ClientSampleId :

CL-01-090619

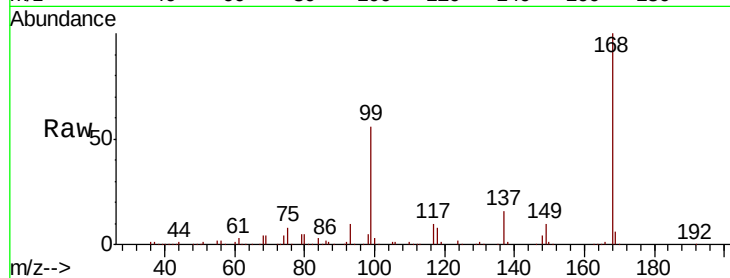
Tgt Ion: 56 Resp: 5336

Ion Ratio Lower Upper

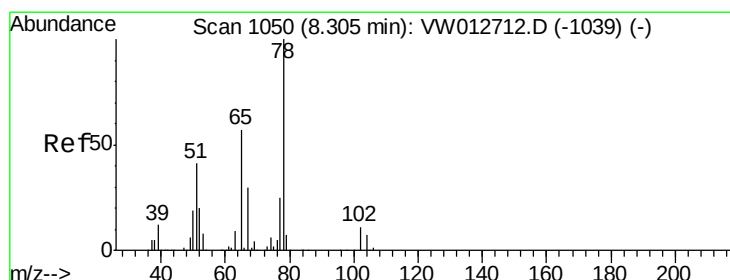
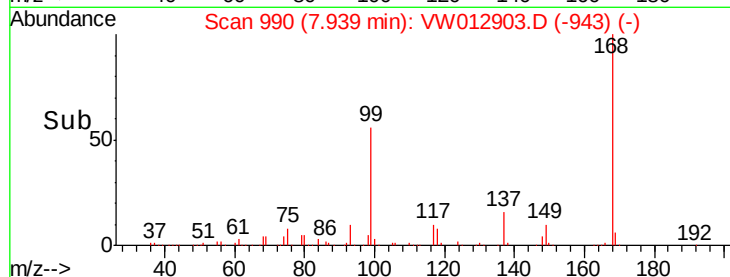
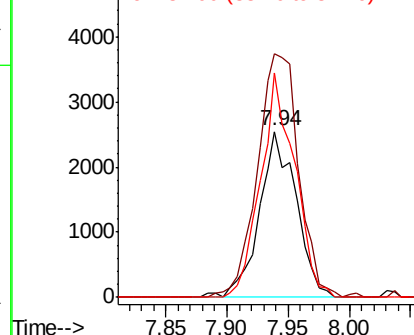
56 100

69 146.8 25.7 38.5#

84 134.9 60.4 90.6#



Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW



#33

1,2-Dichloroethane-d4

Concen: 50.116 ug/l

RT: 8.30 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VW012903.D

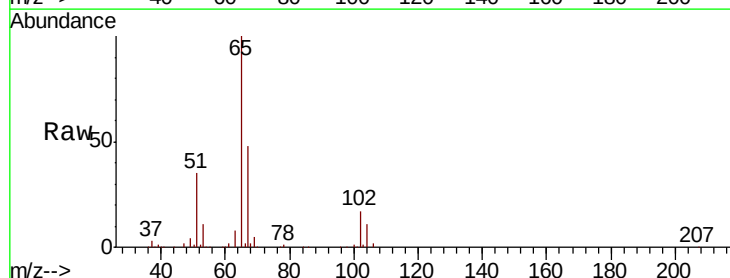
Acq: 11 Sep 2019 07:05

Tgt Ion: 65 Resp: 134133

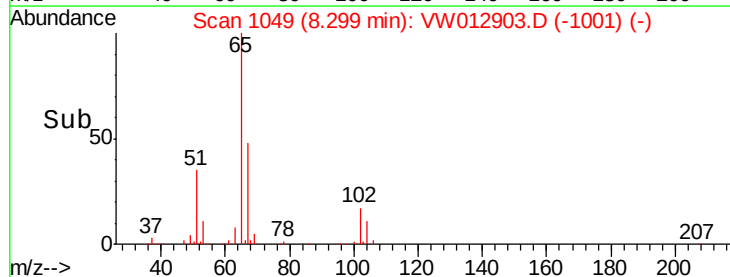
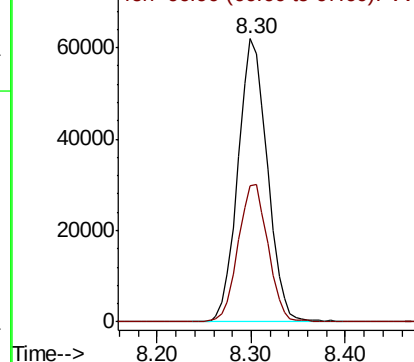
Ion Ratio Lower Upper

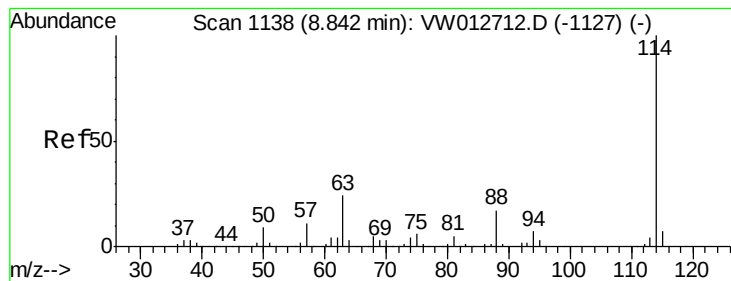
65 100

67 49.5 0.0 101.8



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW012903.D

Acq: 11 Sep 2019 07:05

Instrument :

MSVOA_W

ClientSampleId :

CL-01-090619

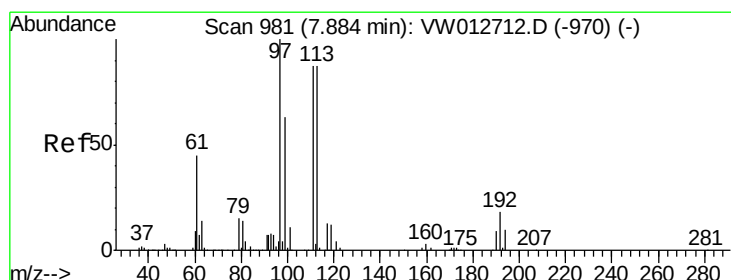
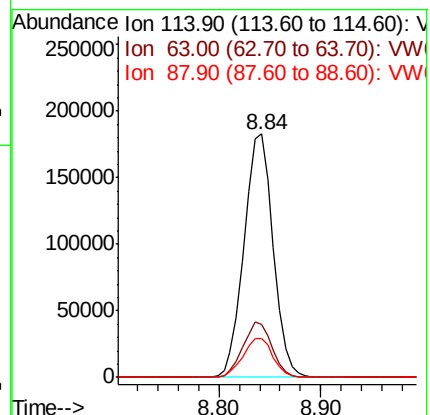
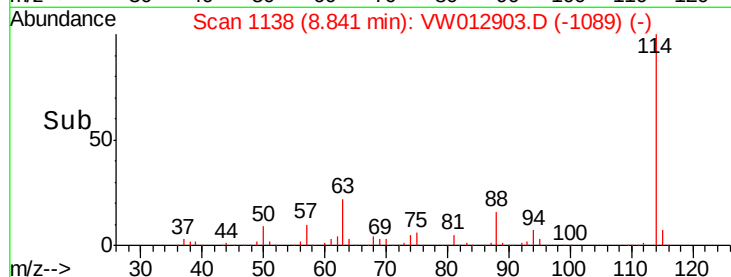
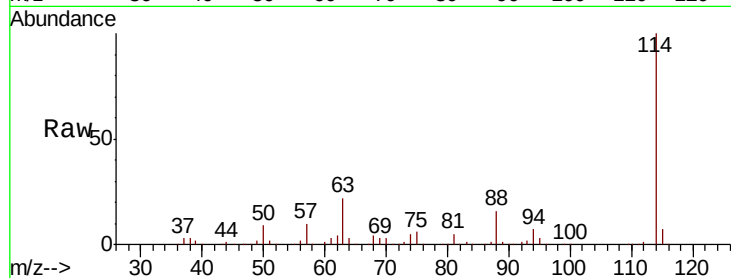
Tgt Ion:114 Resp: 362618

Ion Ratio Lower Upper

114 100

63 21.8 0.0 47.2

88 16.2 0.0 34.0



#35

Dibromofluoromethane

Concen: 49.274 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.01 min

Lab File: VW012903.D

Acq: 11 Sep 2019 07:05

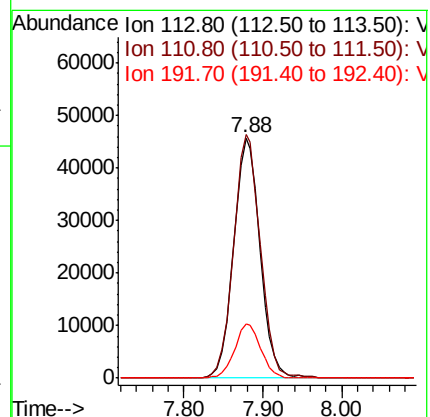
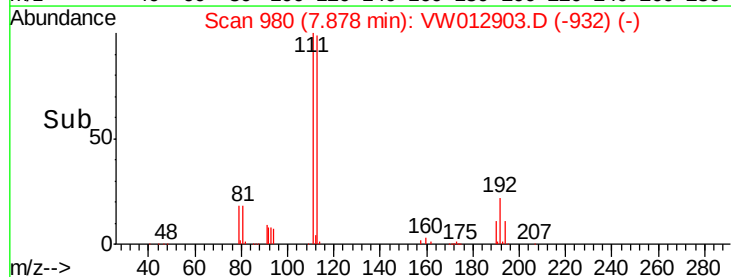
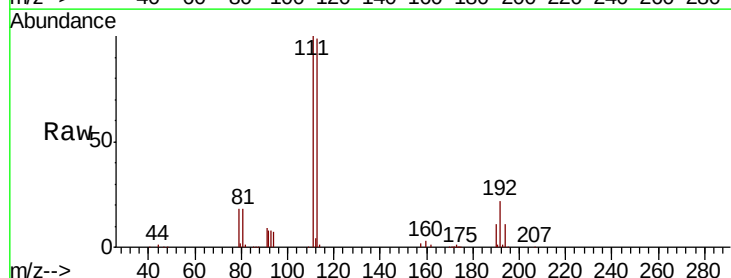
Tgt Ion:113 Resp: 106228

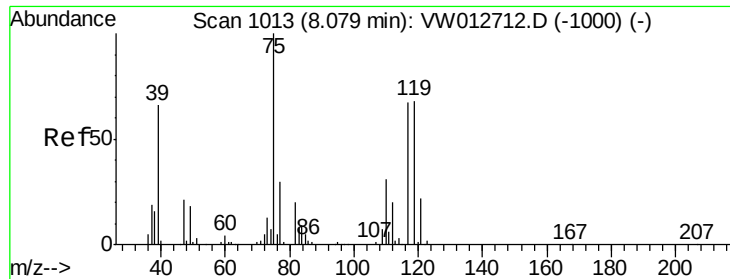
Ion Ratio Lower Upper

113 100

111 102.7 80.2 120.4

192 22.2 17.3 25.9





#36

1,1-Dichloropropene

Concen: 5.623 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW012903.D

Acq: 11 Sep 2019 07:05

Instrument :

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ClientSampled :

CL-01-090619

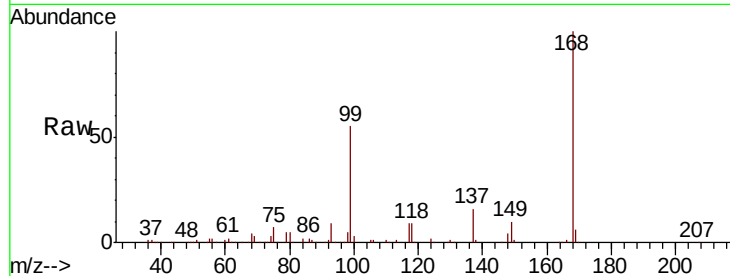
Tgt Ion: 75 Resp: 18117

Ion Ratio Lower Upper

75 100

110 10.6 15.9 47.7#

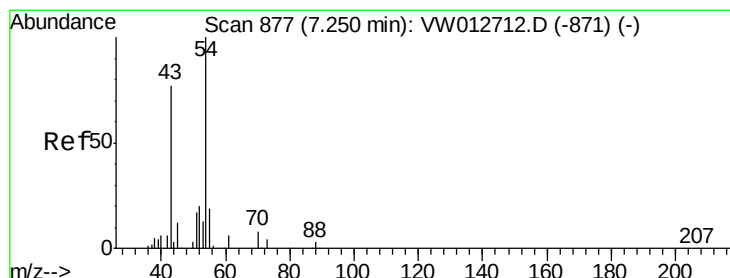
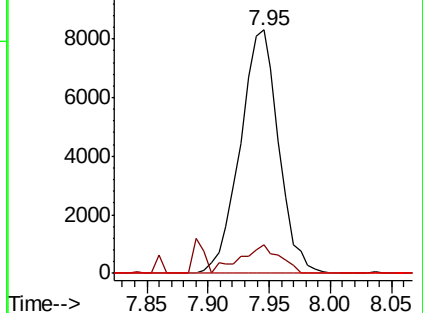
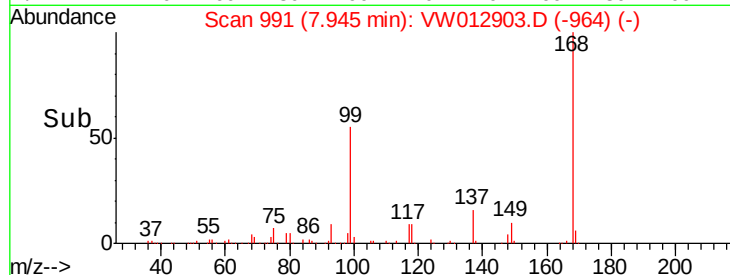
77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): VW

Ion 76.90 (76.60 to 77.60): VW



#37

Ethyl Acetate

Concen: 2.523 ug/l

RT: 7.18 min Scan# 866

Delta R.T. -0.07 min

Lab File: VW012903.D

Acq: 11 Sep 2019 07:05

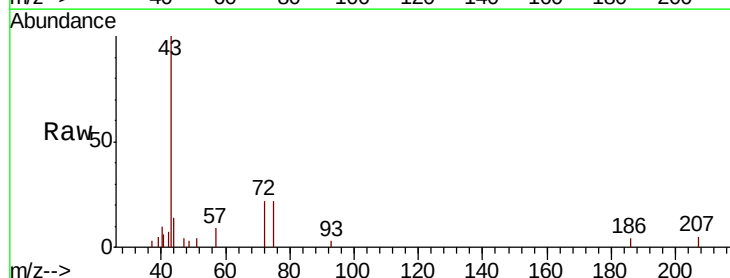
Tgt Ion: 43 Resp: 5182

Ion Ratio Lower Upper

43 100

61 0.0 9.5 14.3#

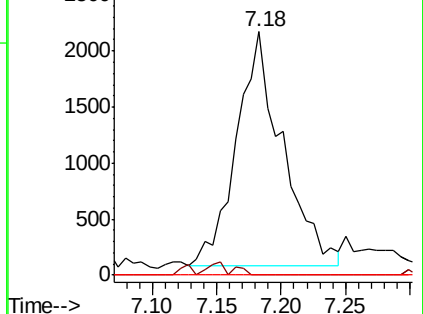
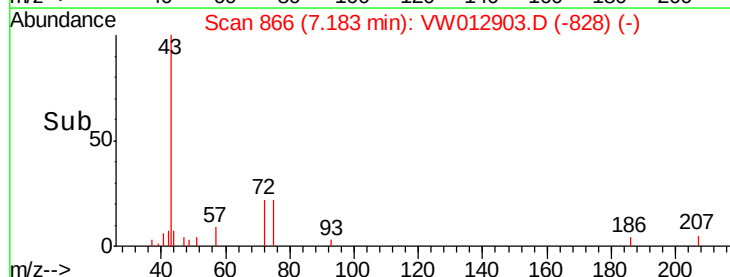
70 0.0 7.0 10.6#

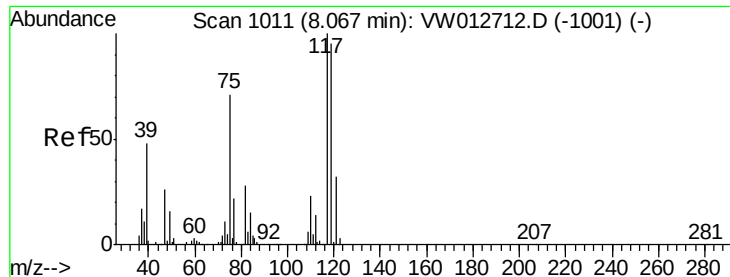


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 70.00 (69.70 to 70.70): VW

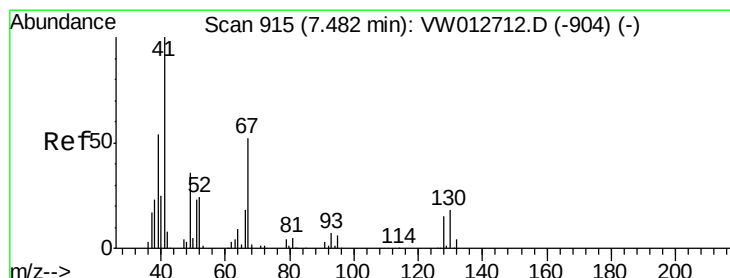
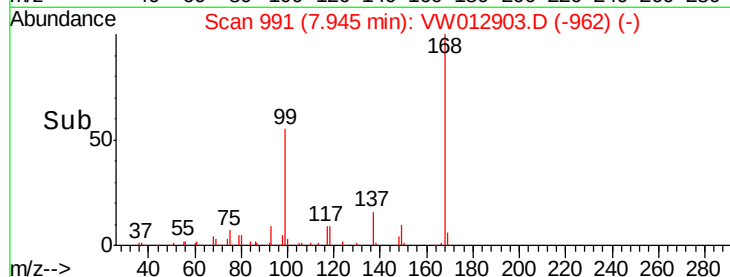
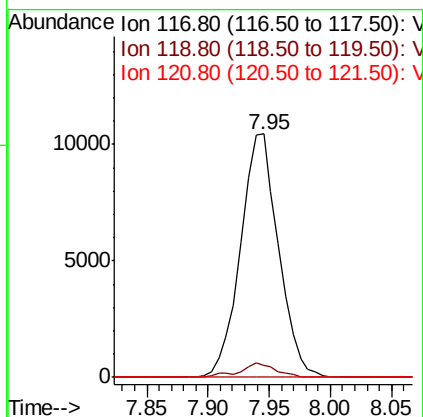
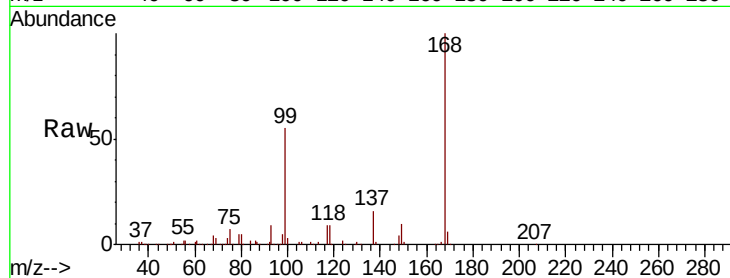




#38
Carbon Tetrachloride
Concen: 7.101 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW012903.D
Acq: 11 Sep 2019 07:05

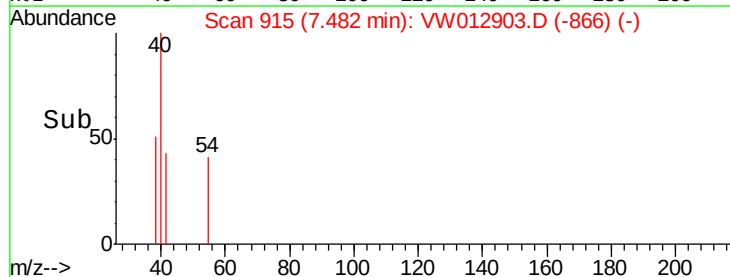
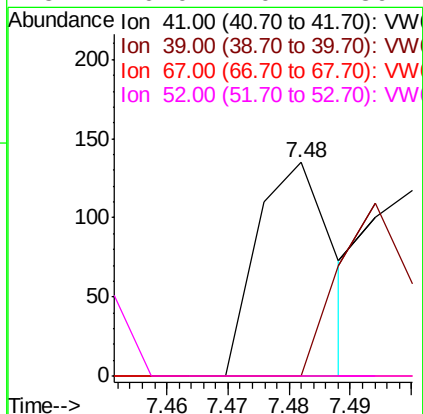
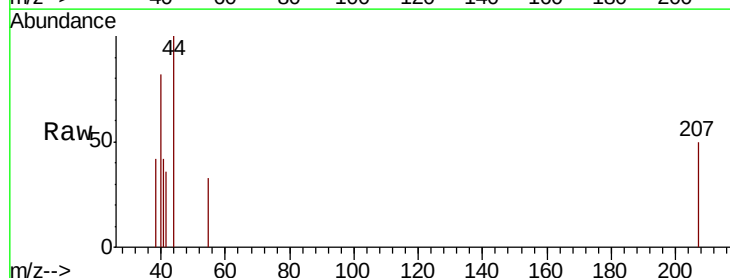
Instrument :
MSVOA_W
ClientSampleId :
CL-01-090619

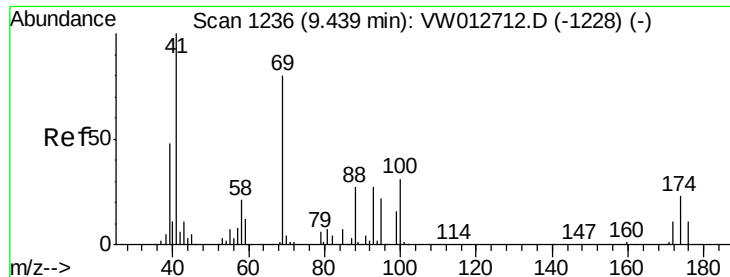
Tgt Ion:117 Resp: 22553
Ion Ratio Lower Upper
117 100
119 4.7 76.2 114.2#
121 0.0 25.4 38.2#



#41
Methacrylonitrile
Concen: 3.915 ug/l
RT: 7.48 min Scan# 915
Delta R.T. -0.00 min
Lab File: VW012903.D
Acq: 11 Sep 2019 07:05

Tgt Ion: 41 Resp: 116
Ion Ratio Lower Upper
41 100
39 0.0 47.5 71.3#
67 0.0 45.1 67.7#
52 0.0 20.2 30.2#





#49

1,4-Dioxane

Concen: 1.121 ug/l

RT: 9.40 min Scan# 1230

Delta R.T. -0.04 min

Lab File: VW012903.D

Acq: 11 Sep 2019 07:05

Instrument :

MSVOA_W

ClientSampleId :

CL-01-090619

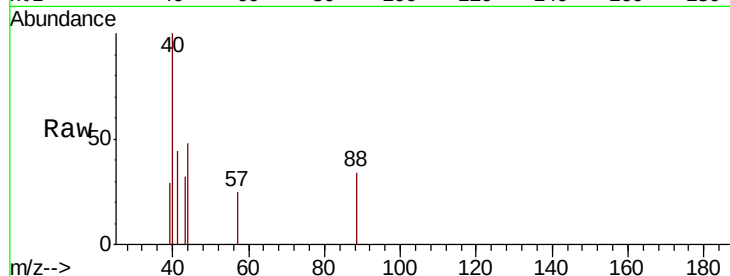
Tgt Ion: 88 Resp: 26

Ion Ratio Lower Upper

88 100

43 157.7 34.8 52.2#

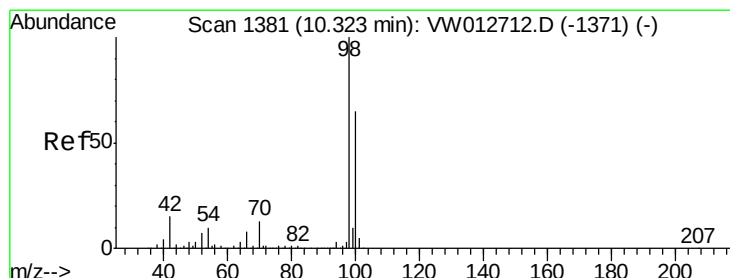
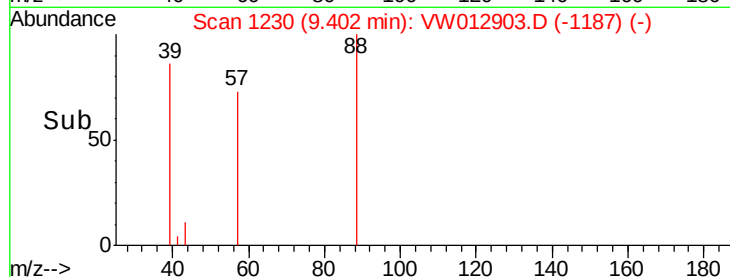
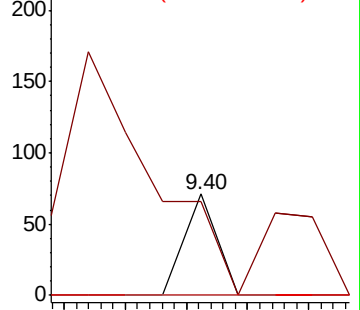
58 0.0 64.1 96.1#



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: 51.302 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012903.D

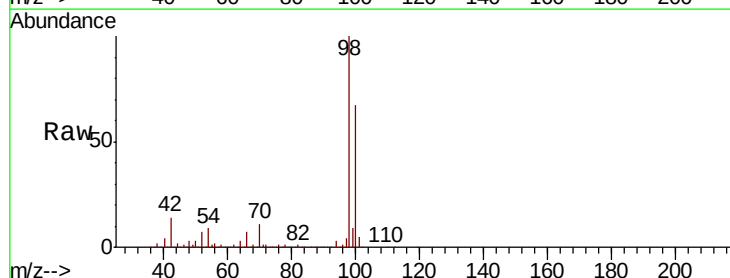
Acq: 11 Sep 2019 07:05

Tgt Ion: 98 Resp: 433308

Ion Ratio Lower Upper

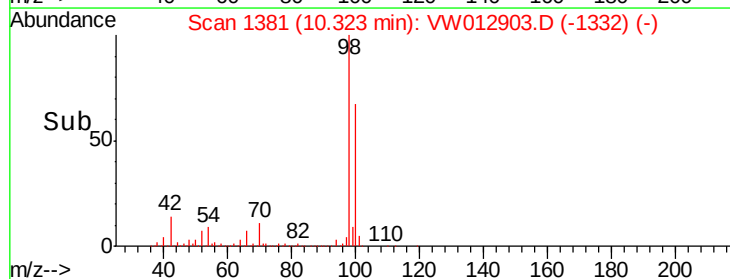
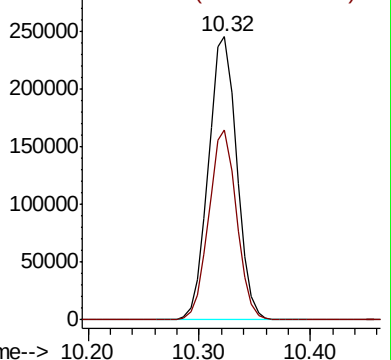
98 100

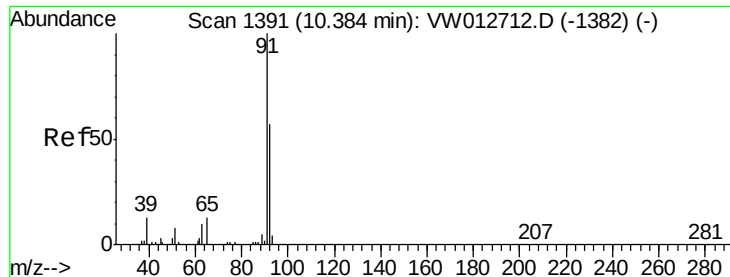
100 65.8 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#52

Toluene

Concen: 6.243 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW012903.D

Acq: 11 Sep 2019 07:05

Instrument :

MSVOA_W

ClientSampleId :

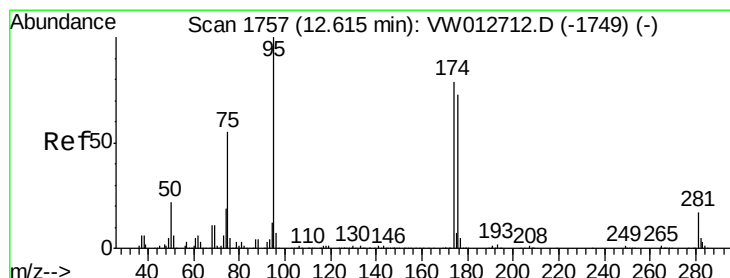
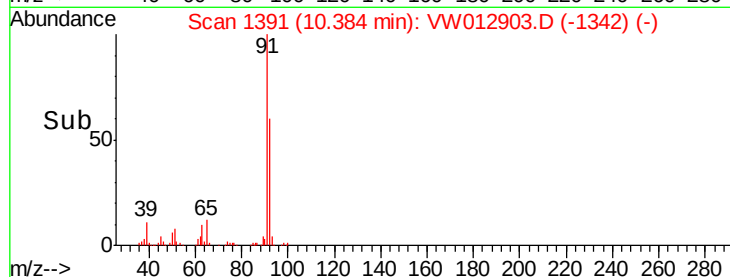
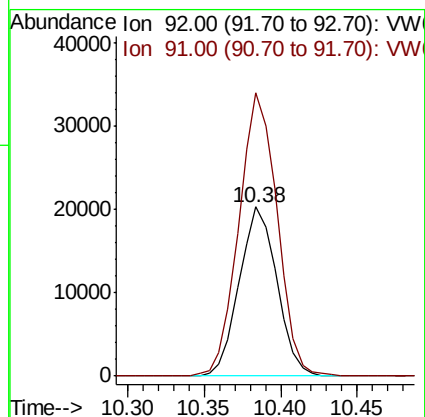
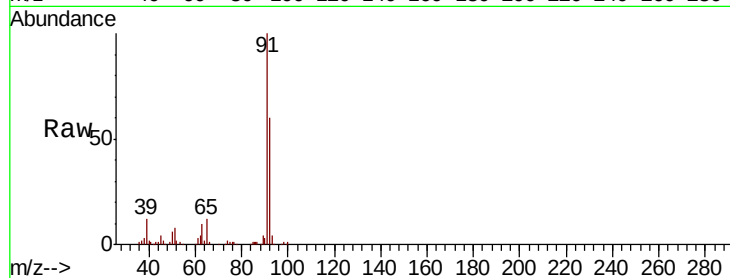
CL-01-090619

Tgt Ion: 92 Resp: 34833

Ion Ratio Lower Upper

92 100

91 170.2 137.0 205.4



#62

4-Bromofluorobenzene

Concen: 43.627 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012903.D

Acq: 11 Sep 2019 07:05

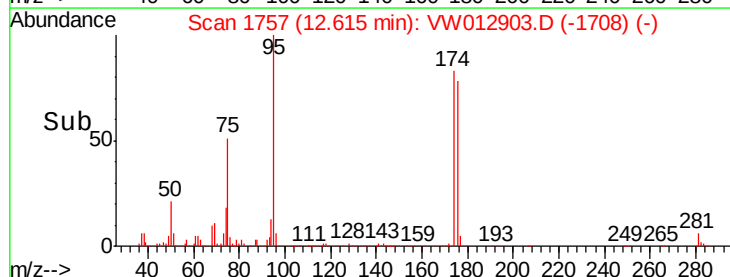
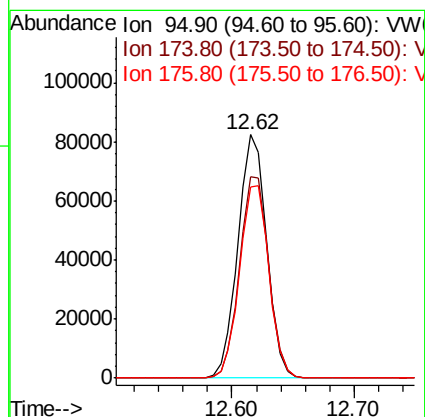
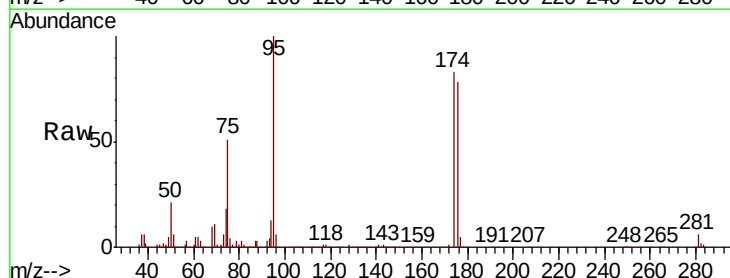
Tgt Ion: 95 Resp: 133770

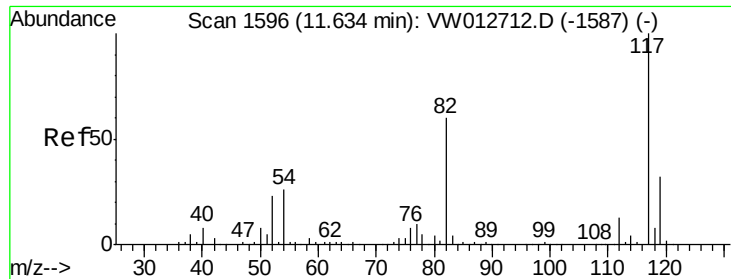
Ion Ratio Lower Upper

95 100

174 84.2 0.0 161.0

176 80.8 0.0 156.4

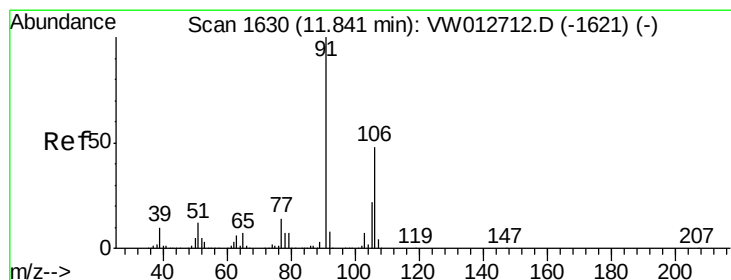
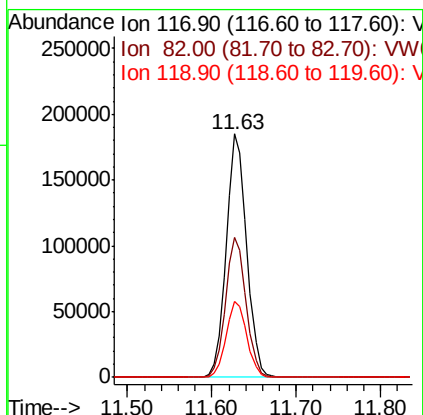
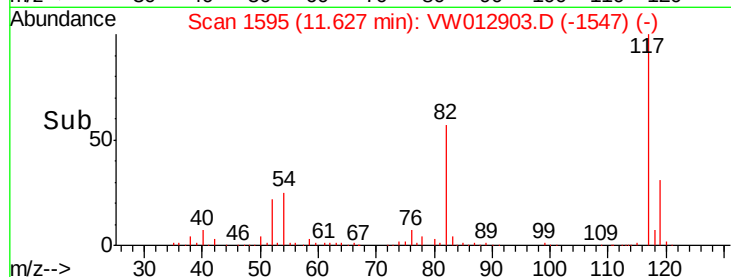
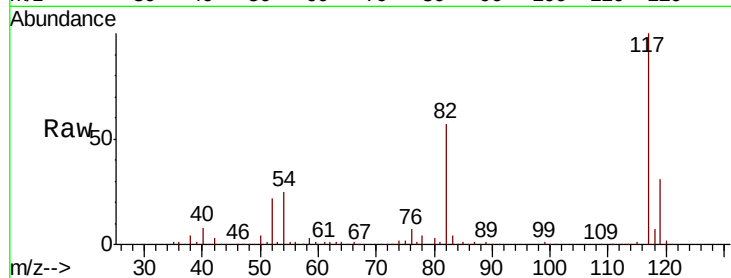




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW012903.D
Acq: 11 Sep 2019 07:05

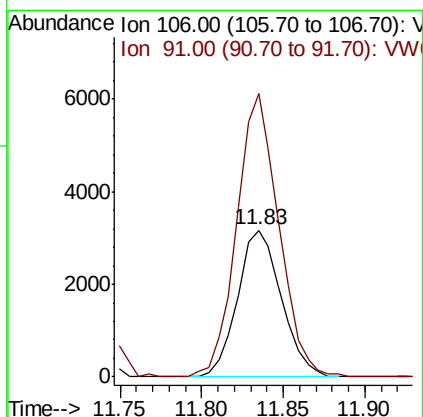
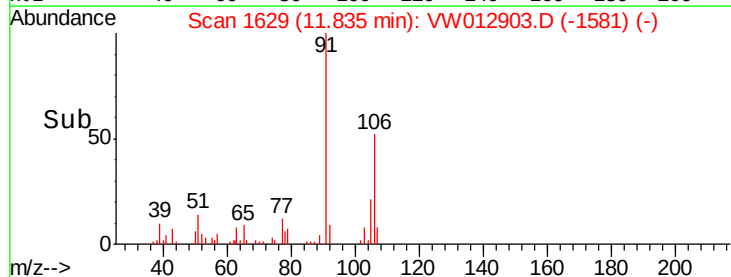
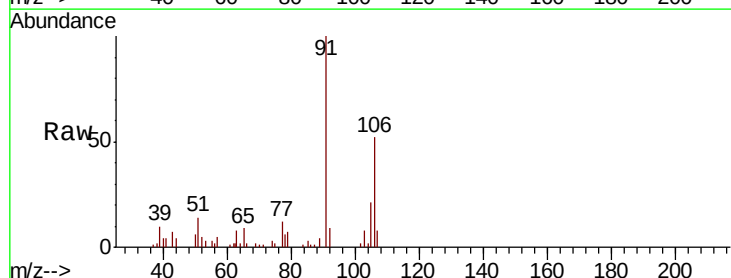
Instrument :
MSVOA_W
ClientSampleId :
CL-01-090619

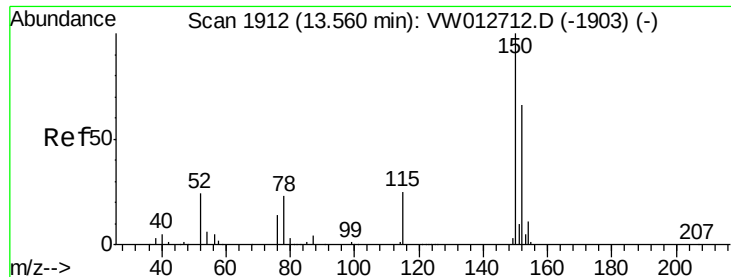
Tgt Ion:117 Resp: 306375
Ion Ratio Lower Upper
117 100
82 57.3 48.2 72.4
119 31.2 25.8 38.6



#68
m/p-Xylenes
Concen: 1.508 ug/l
RT: 11.83 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW012903.D
Acq: 11 Sep 2019 07:05

Tgt Ion:106 Resp: 5914
Ion Ratio Lower Upper
106 100
91 185.8 168.2 252.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW012903.D

Acq: 11 Sep 2019 07:05

Instrument :

MSVOA_W

ClientSampleId :

CL-01-090619

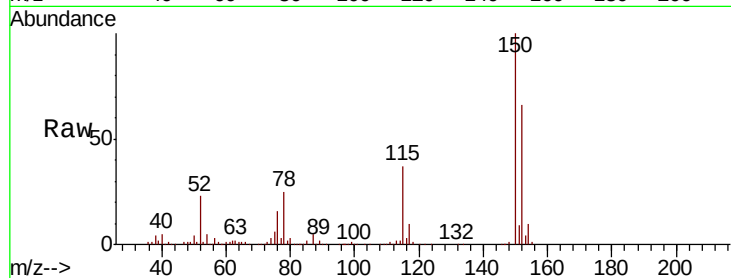
Tgt Ion:152 Resp: 117293

Ion Ratio Lower Upper

152 100

115 58.2 30.0 90.1

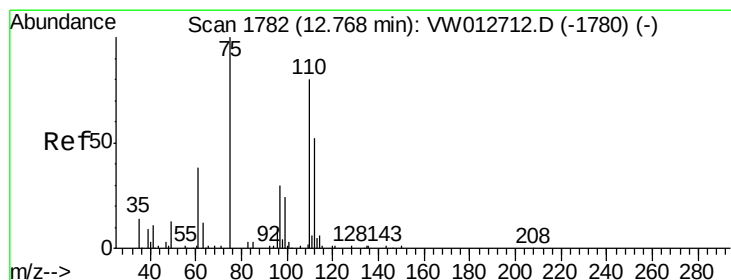
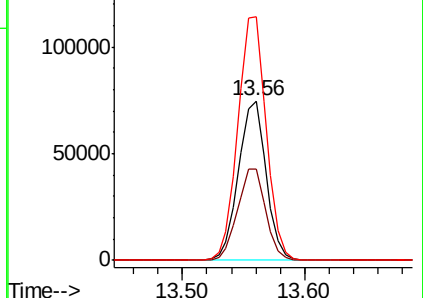
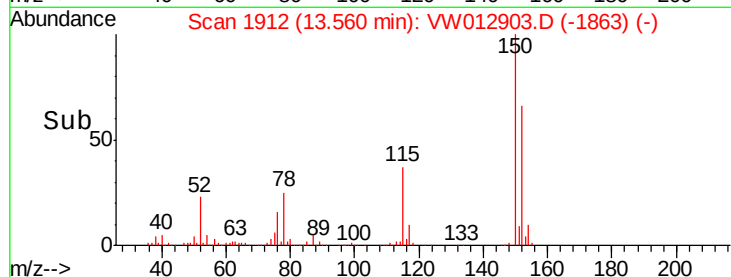
150 155.8 0.0 349.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 57.879 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012903.D

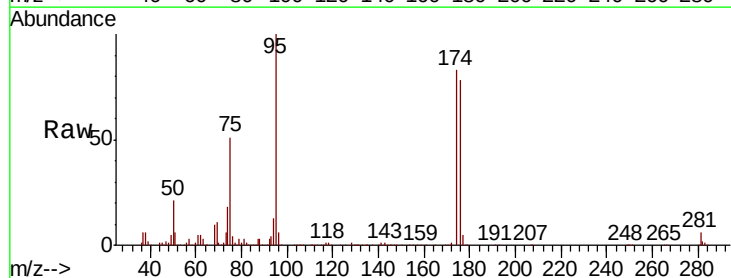
Acq: 11 Sep 2019 07:05

Tgt Ion: 75 Resp: 69418

Ion Ratio Lower Upper

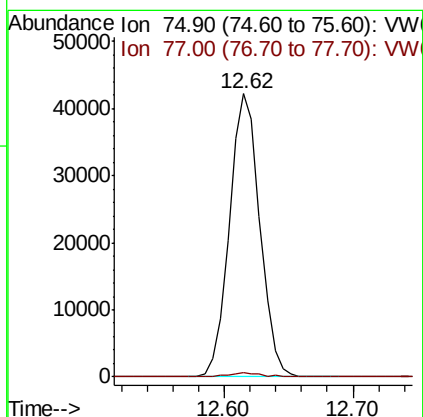
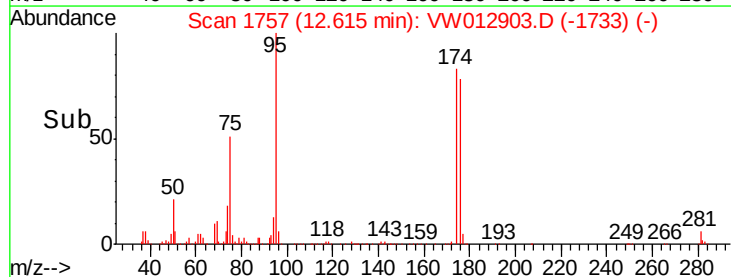
75 100

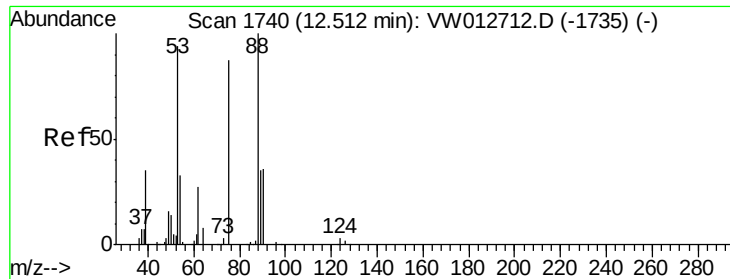
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 122.417 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012903.D

Acq: 11 Sep 2019 07:05

Instrument :

MSVOA_W

ClientSampled :

CL-01-090619

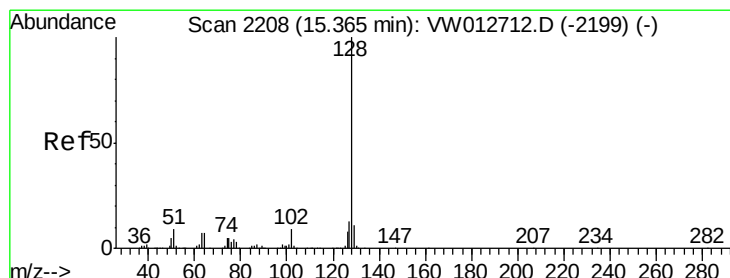
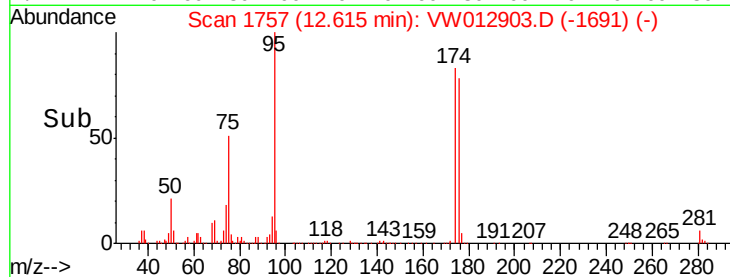
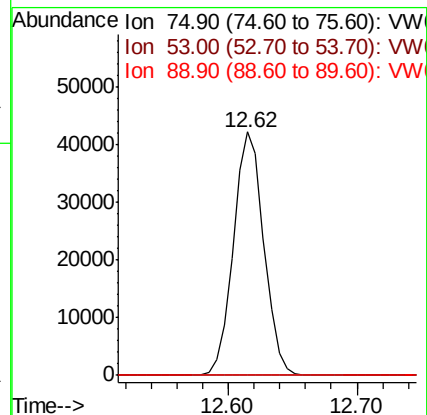
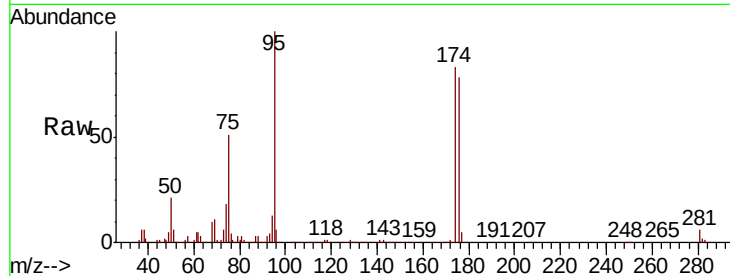
Tgt Ion: 75 Resp: 69418

Ion Ratio Lower Upper

75 100

53 0.1 87.6 131.4#

89 0.1 35.5 53.3#



#95

Naphthalene

Concen: 5.064 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.01 min

Lab File: VW012903.D

Acq: 11 Sep 2019 07:05

Tgt Ion: 128 Resp: 3374

Ion Ratio Lower Upper

128 100

127 20.0 10.7 16.1#

129 10.0 8.7 13.1

