

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW090919\
 Data File : VW012818.D
 Acq On : 09 Sep 2019 13:49
 Operator : SY/VA
 Sample : K4760-09
 Misc : 6.18G/5ML/MSVOA W/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 09 14:16:31 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	83231	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	123779	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	93943	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	29011	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	48884	52.57	ug/l	0.00
Spiked Amount			Recovery	=	105.14%	
35) Dibromofluoromethane	7.88	113	38546	52.38	ug/l	0.00
Spiked Amount			Recovery	=	104.76%	
50) Toluene-d8	10.32	98	143540	49.79	ug/l	0.00
Spiked Amount			Recovery	=	99.58%	
62) 4-Bromofluorobenzene	12.62	95	38699	36.97	ug/l	0.00
Spiked Amount			Recovery	=	73.94%	

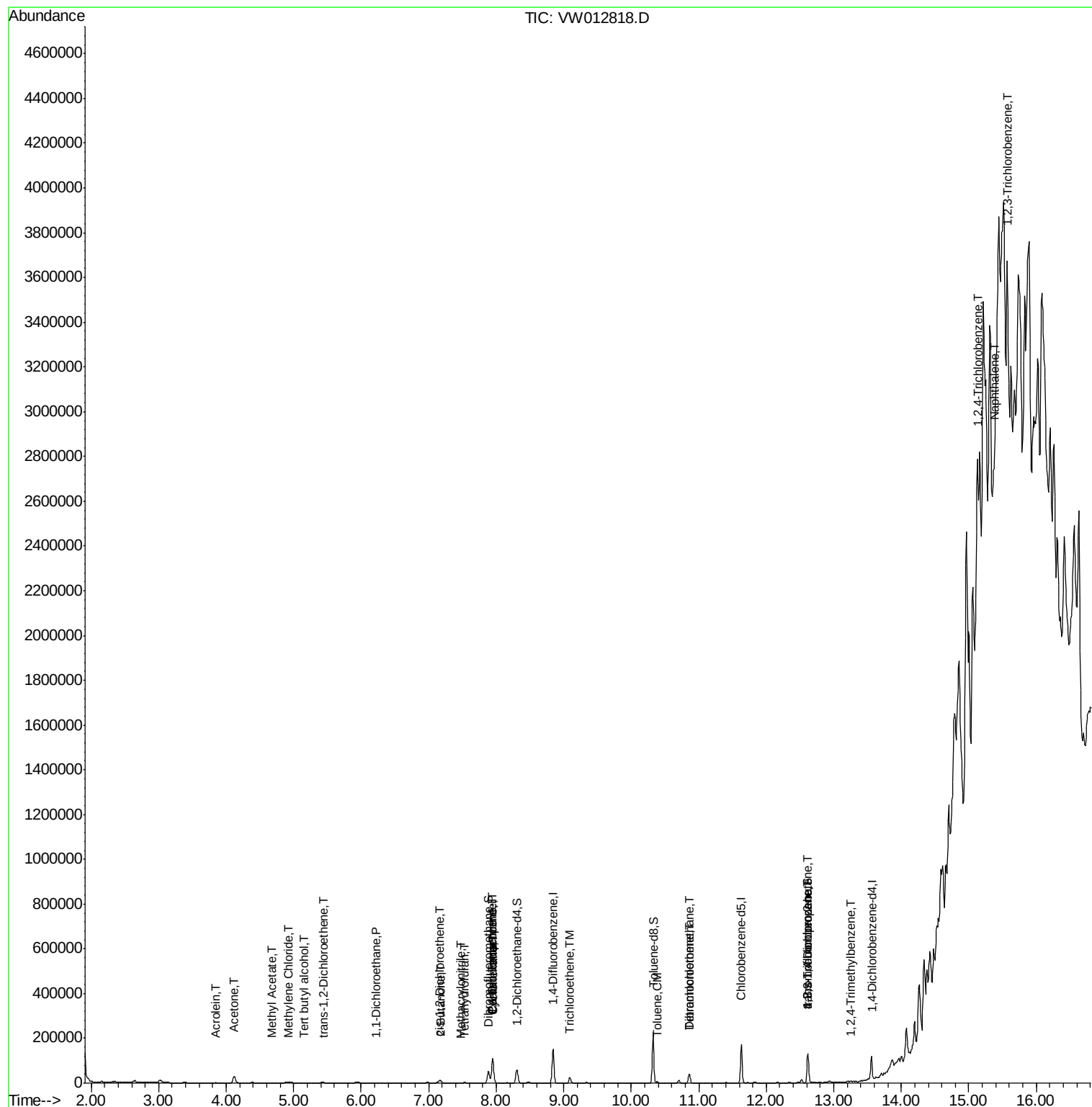
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.15	59	1941	27.280	ug/l #	90
13) Acrolein	3.84	56	82	1.086	ug/l #	1
16) Acetone	4.12	43	53775	212.107	ug/l	96
18) Methyl Acetate	4.68	43	1760	2.959	ug/l	99
20) Methylene Chloride	4.91	84	1895	2.389	ug/l #	88
21) trans-1,2-Dichloroethene	5.43	96	771	1.099	ug/l #	37
24) 1,1-Dichloroethane	6.21	63	1604	1.056	ug/l #	84
25) 2-Butanone	7.18	43	1915	24.406	ug/l #	85
27) cis-1,2-Dichloroethene	7.17	96	5548	6.822	ug/l	88
29) Tetrahydrofuran	7.54	42	1798	8.782	ug/l #	80
31) Cyclohexane	7.96	56	2463	1.802	ug/l #	40
36) 1,1-Dichloropropene	7.95	75	6780	6.165	ug/l #	51
38) Carbon Tetrachloride	7.95	117	8260	7.619	ug/l #	17
41) Methacrylonitrile	7.48	41	77	3.988	ug/l #	27
44) Trichloroethene	9.09	130	7966	10.128	ug/l	97
52) Toluene	10.38	92	2501	1.313	ug/l	96
60) Dibromochloromethane	10.86	129	7846	11.119	ug/l #	11
64) Tetrachloroethene	10.87	164	9394	16.480	ug/l	95
76) 1,2,3-Trichloropropane	12.62	75	19527	65.825	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	19527	139.224	ug/l #	7
84) 1,2,4-Trimethylbenzene	13.24	105	3528	1.997	ug/l	94
93) 1,2,4-Trichlorobenzene	15.14	180	25706	44.272	ug/l #	52
95) Naphthalene	15.37	128	1057	5.230	ug/l #	35
96) 1,2,3-Trichlorobenzene	15.58	180	47956	93.567	ug/l #	18

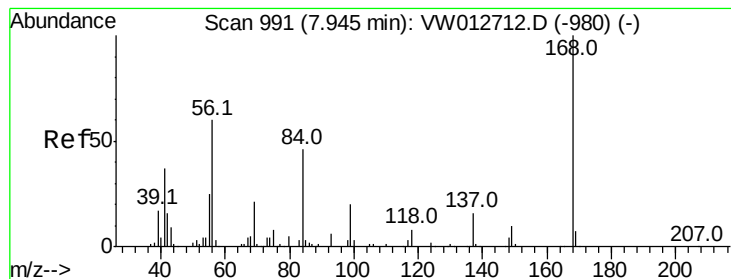
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sun Sep 08 05:04:40 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: VW012818.D

Acq: 09 Sep 2019 13:49

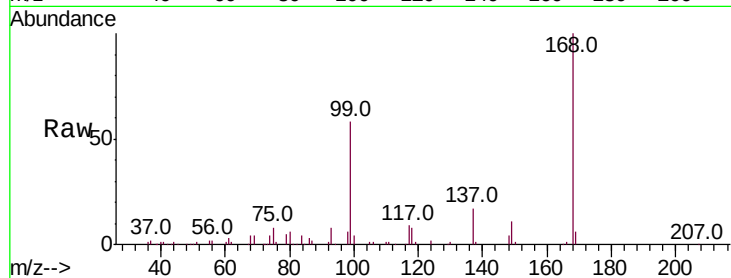
Instrument :
MSVOA_W
ClientSampled :

Tot Ion:168 Resp: 83231

Ion Ratio Lower Upper

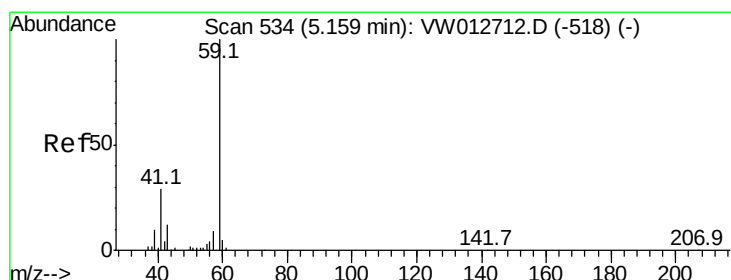
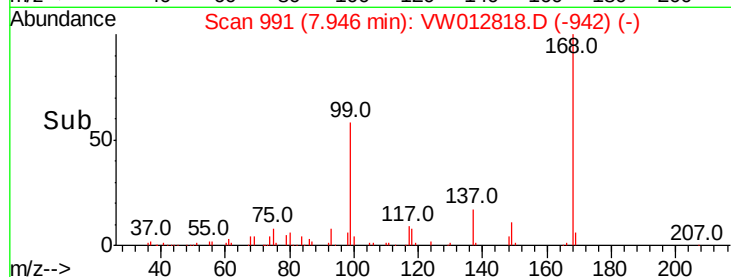
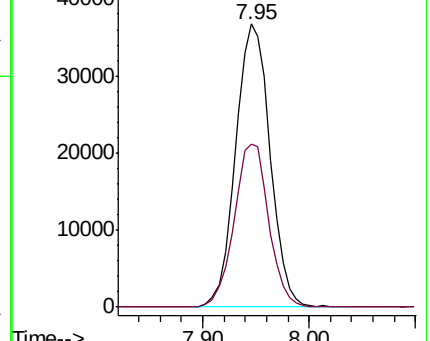
168 100

99 57.5 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: 27.280 ug/l

RT: 5.15 min Scan# 533

Delta R.T. -0.01 min

Lab File: VW012818.D

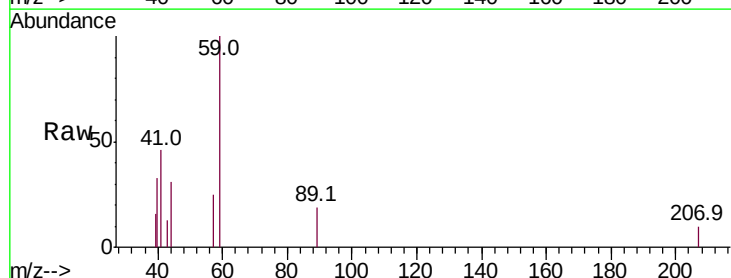
Acq: 09 Sep 2019 13:49

Tgt Ion: 59 Resp: 1941

Ion Ratio Lower Upper

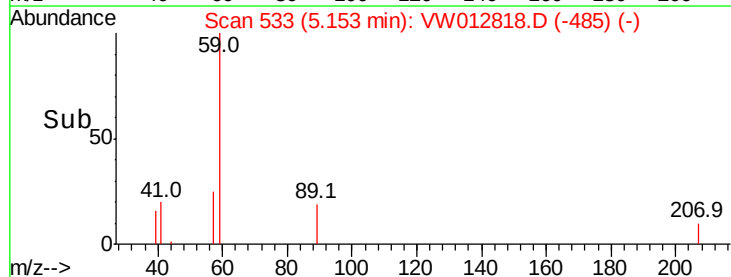
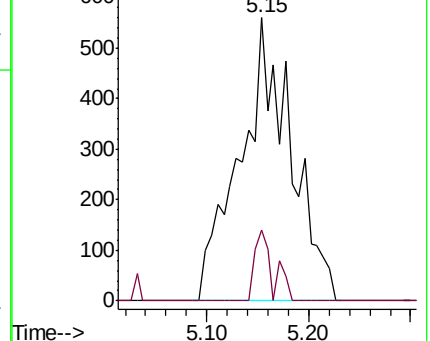
59 100

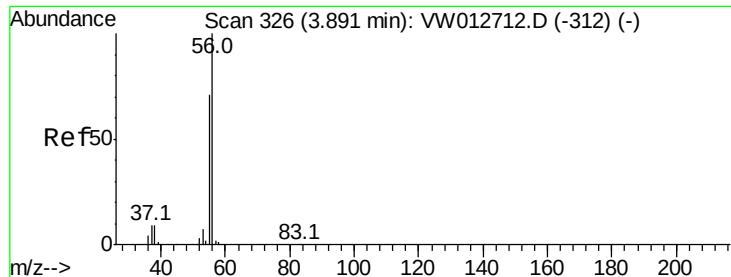
57 6.5 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: 1.086 ug/l

RT: 3.84 min Scan# 317

Delta R.T. -0.05 min

Lab File: VW012818.D

Acq: 09 Sep 2019 13:49

Instrument :

MSVOA_W

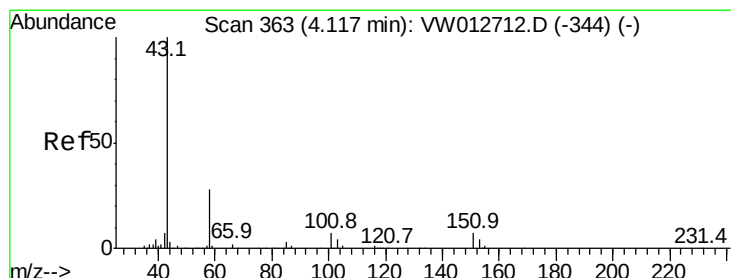
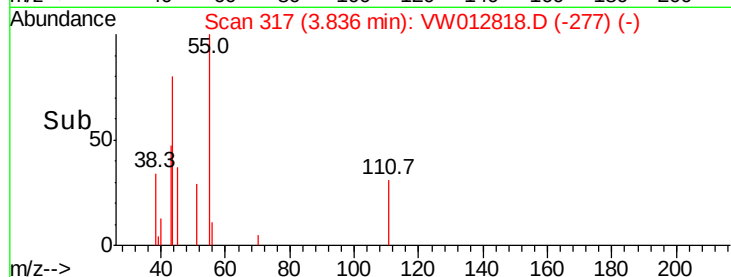
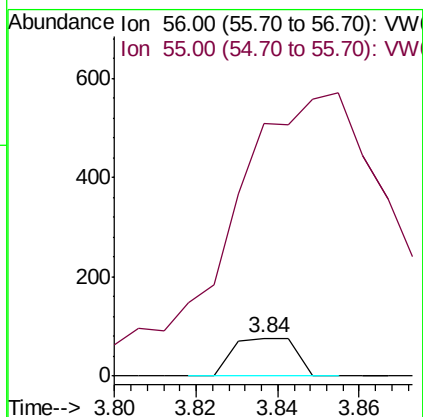
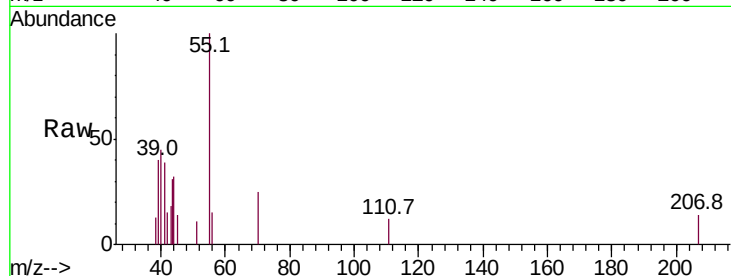
ClientSampleId :

Tot Ion: 56 Resp: 82

Ion Ratio Lower Upper

56 100

55 1929.3 56.9 85.3#



#16

Acetone

Concen: 212.107 ug/l

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW012818.D

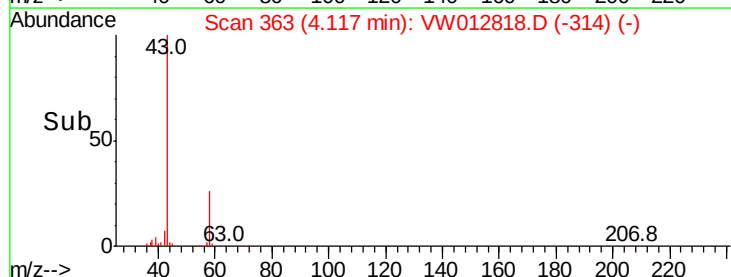
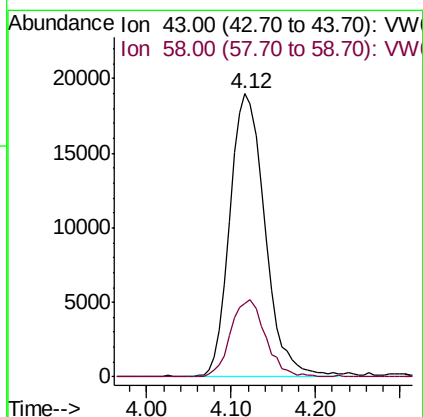
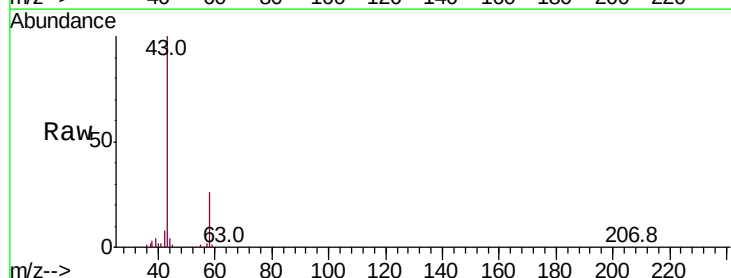
Acq: 09 Sep 2019 13:49

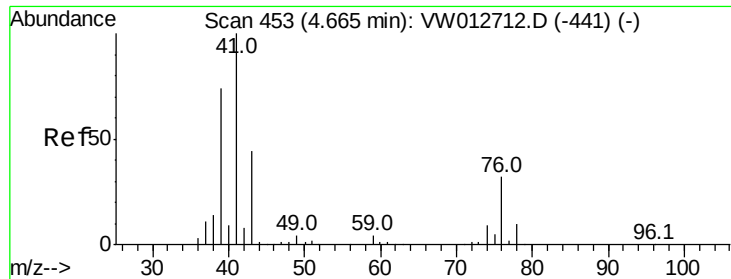
Tgt Ion: 43 Resp: 53775

Ion Ratio Lower Upper

43 100

58 26.1 22.6 33.8

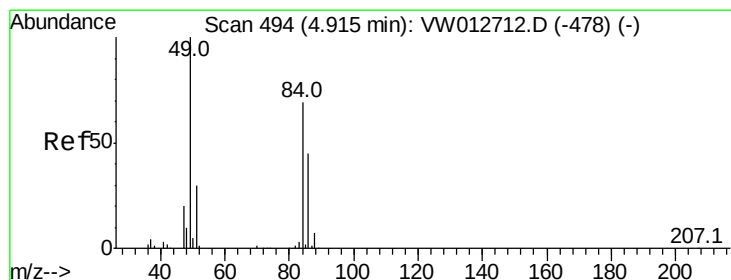
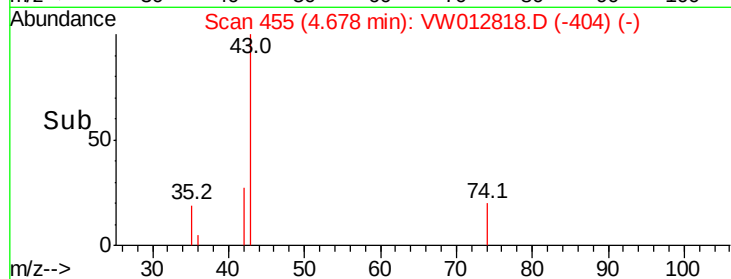
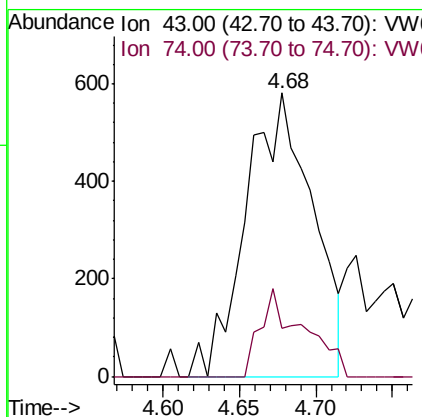
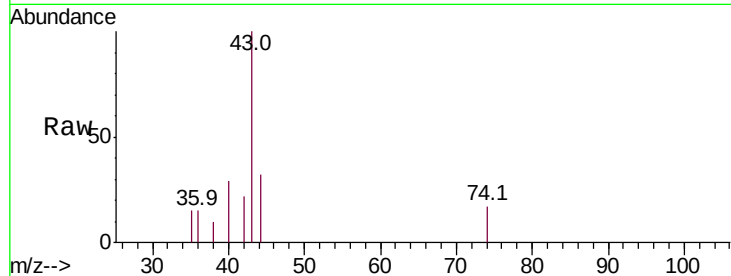




#18
Methyl Acetate
Concen: 2.959 ug/l
RT: 4.68 min Scan# 455
Delta R.T. 0.01 min
Lab File: VW012818.D
Acq: 09 Sep 2019 13:49

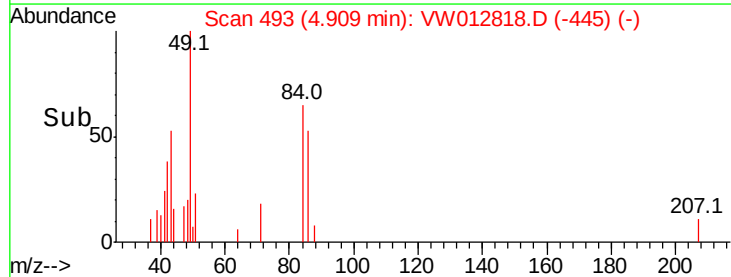
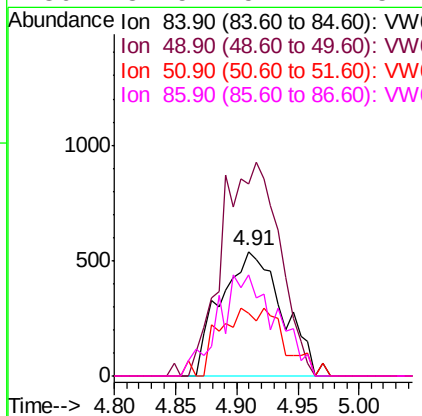
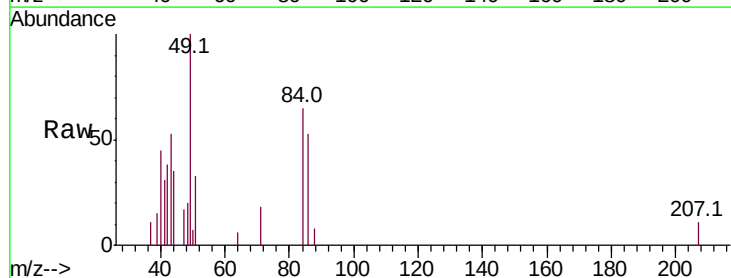
Instrument :
MSVOA_W
ClientSampled :

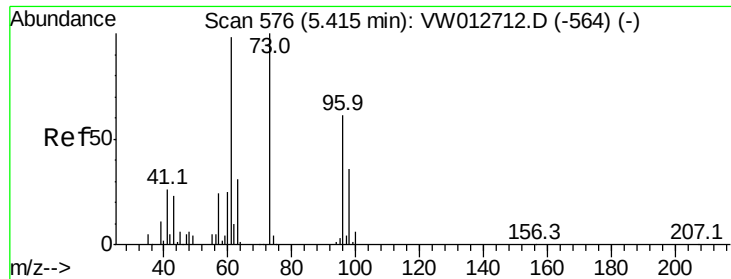
Tot Ion: 43 Resp: 1760
Ion Ratio Lower Upper
43 100
74 20.1 15.8 23.6



#20
Methylene Chloride
Concen: 2.389 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW012818.D
Acq: 09 Sep 2019 13:49

Tgt Ion: 84 Resp: 1895
Ion Ratio Lower Upper
84 100
49 154.3 115.4 173.0
51 50.2 34.9 52.3
86 81.5 52.2 78.4#





#21

trans-1,2-Dichloroethene

Concen: 1.099 ug/l

RT: 5.43 min Scan# 579

Delta R.T. 0.02 min

Lab File: VW012818.D

Acq: 09 Sep 2019 13:49

Instrument :

MSVOA_W

ClientSampleId :

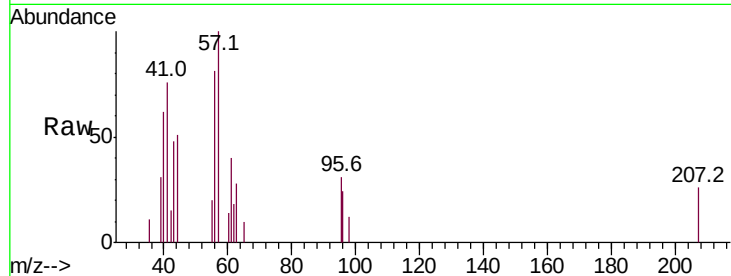
Tot Ion: 96 Resp: 771

Ion Ratio Lower Upper

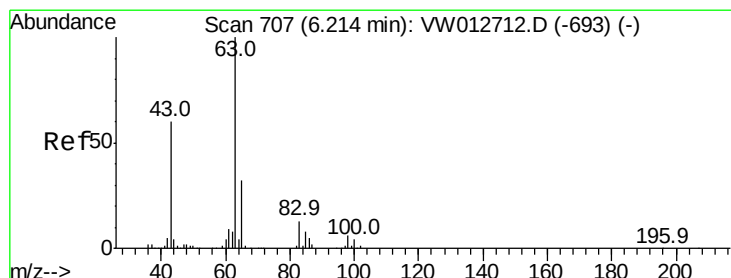
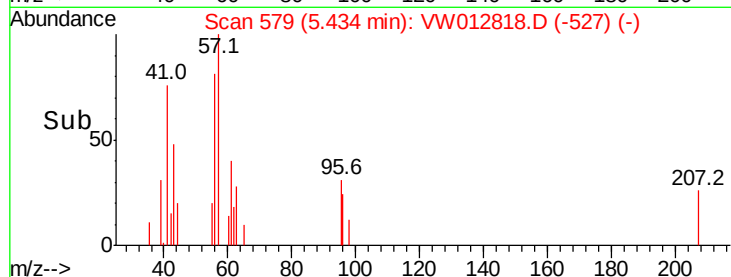
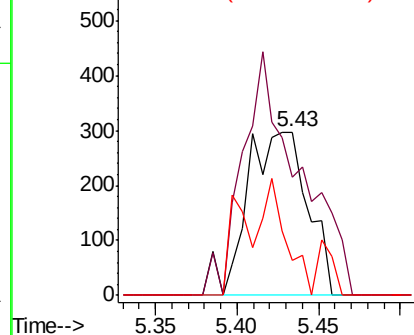
96 100

61 72.7 129.2 193.8#

98 21.5 48.0 72.0#



Abundance Ion 95.90 (95.60 to 96.60): VW
Ion 60.90 (60.60 to 61.60): VW
Ion 97.90 (97.60 to 98.60): VW



#24

1,1-Dichloroethane

Concen: 1.056 ug/l

RT: 6.21 min Scan# 706

Delta R.T. -0.01 min

Lab File: VW012818.D

Acq: 09 Sep 2019 13:49

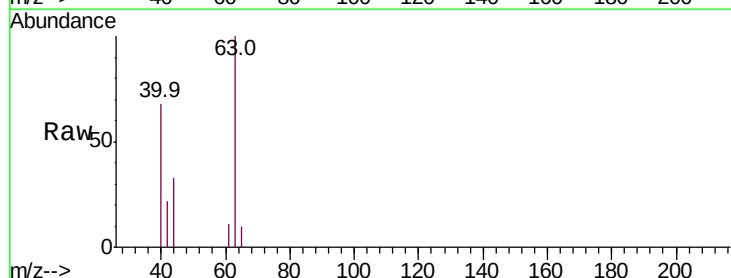
Tgt Ion: 63 Resp: 1604

Ion Ratio Lower Upper

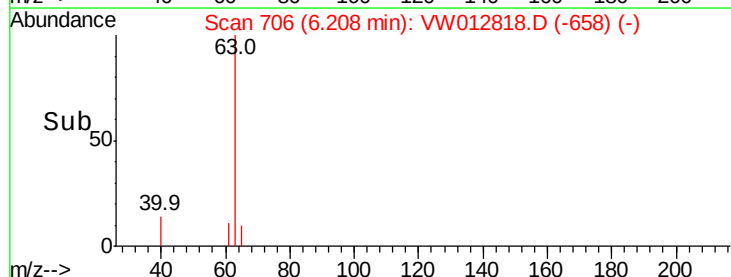
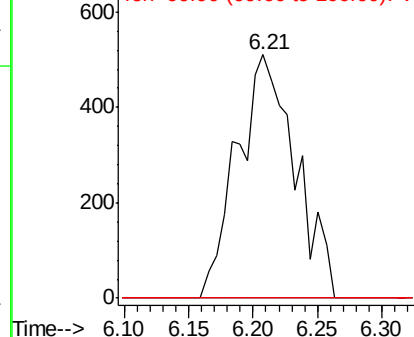
63 100

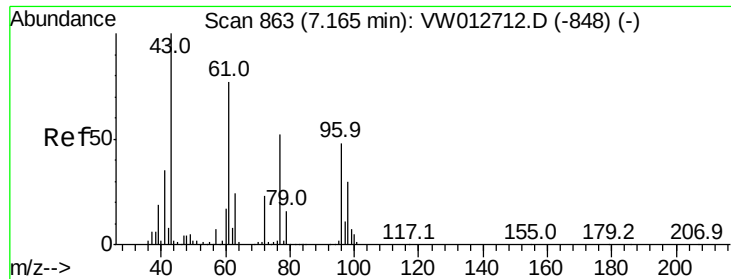
98 0.0 3.1 9.3#

100 0.0 1.8 5.5#



Abundance Ion 62.90 (62.60 to 63.60): VW
Ion 97.90 (97.60 to 98.60): VW
Ion 99.90 (99.60 to 100.60): VW





#25

2-Butanone

Concen: 24.406 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW012818.D

Acq: 09 Sep 2019 13:49

Instrument :

MSVOA_W

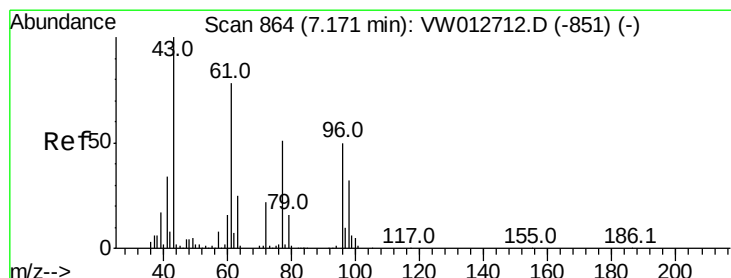
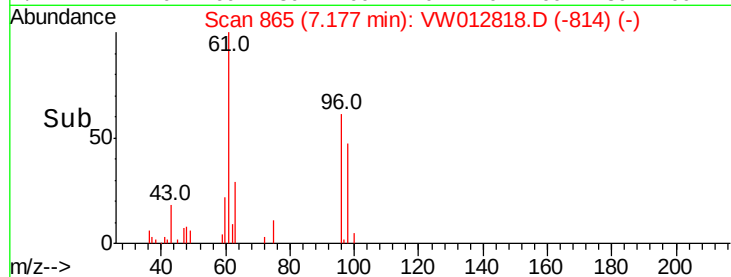
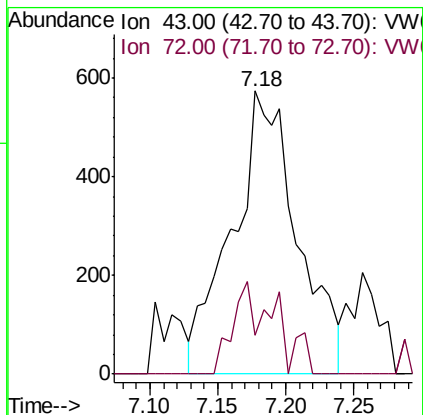
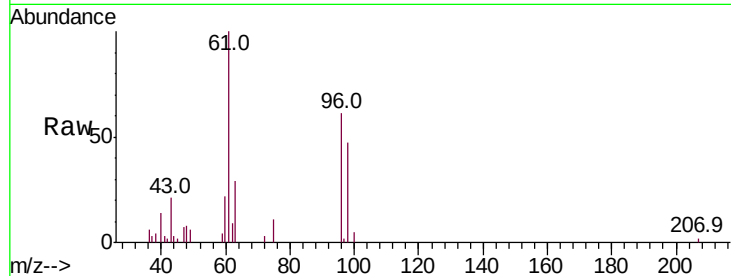
ClientSampled :

Tot Ion: 43 Resp: 1915

Ion Ratio Lower Upper

43 100

72 15.4 18.0 27.0#



#27

cis-1,2-Dichloroethene

Concen: 6.822 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW012818.D

Acq: 09 Sep 2019 13:49

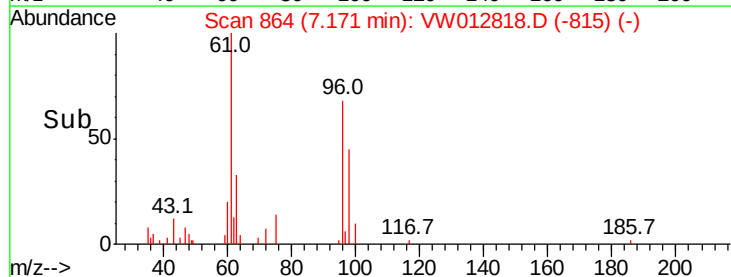
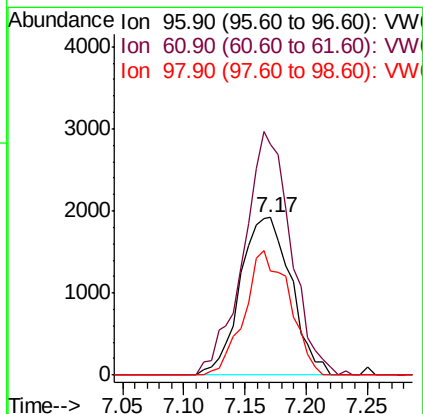
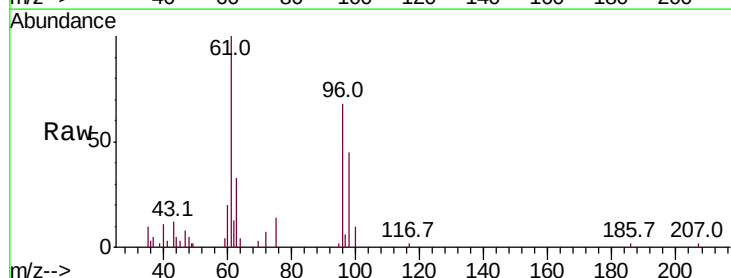
Tgt Ion: 96 Resp: 5548

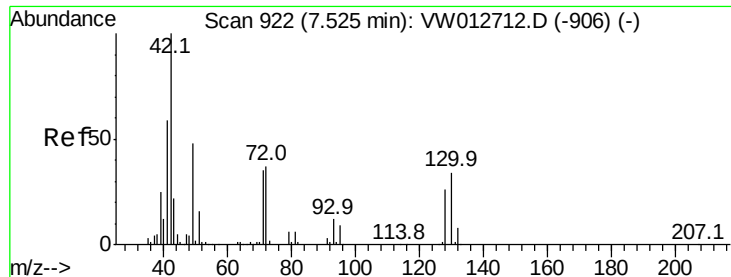
Ion Ratio Lower Upper

96 100

61 144.3 0.0 325.8

98 69.7 0.0 127.0

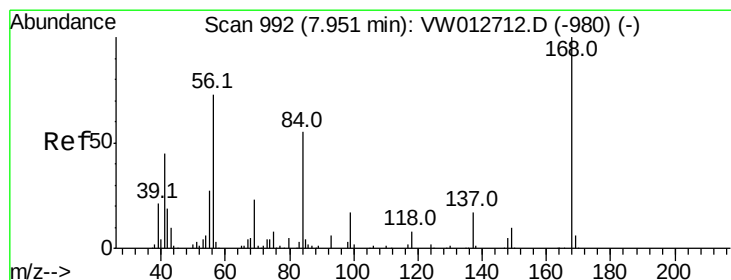
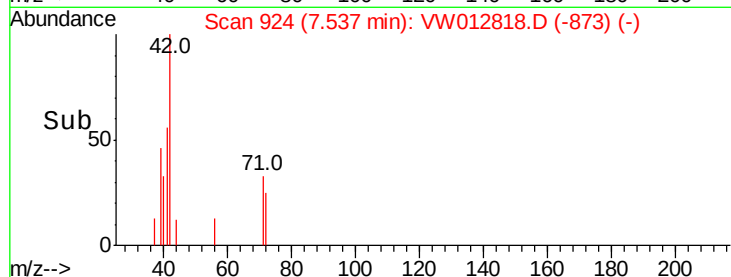
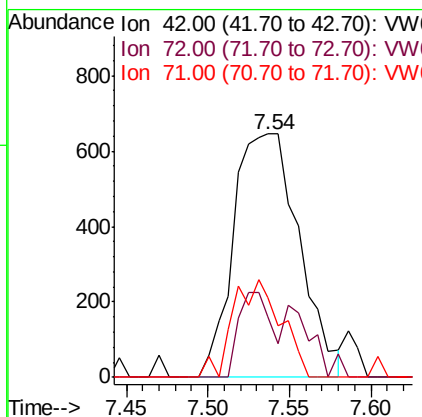
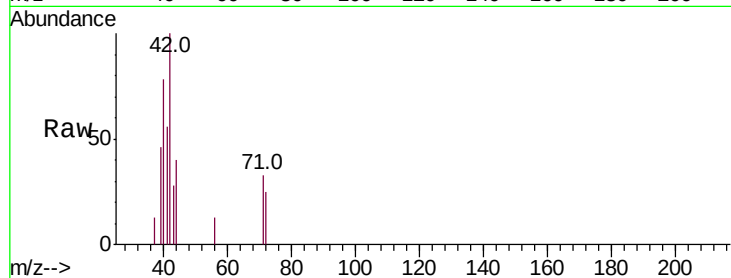




#29
Tetrahydrofuran
Concen: 8.782 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW012818.D
Acq: 09 Sep 2019 13:49

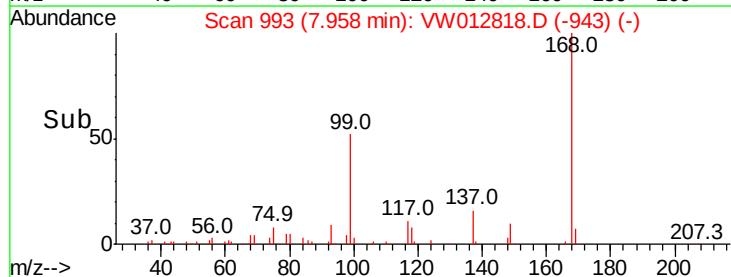
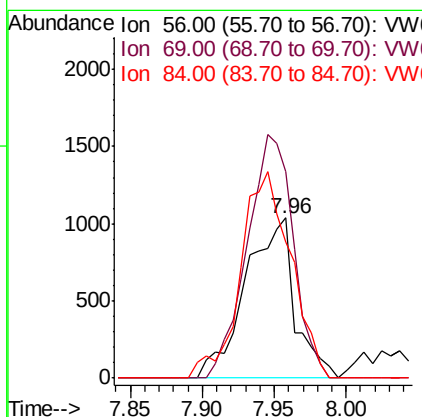
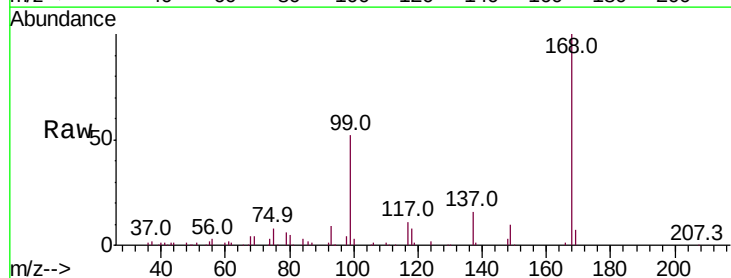
Instrument :
MSVOA_W
ClientSampleId :

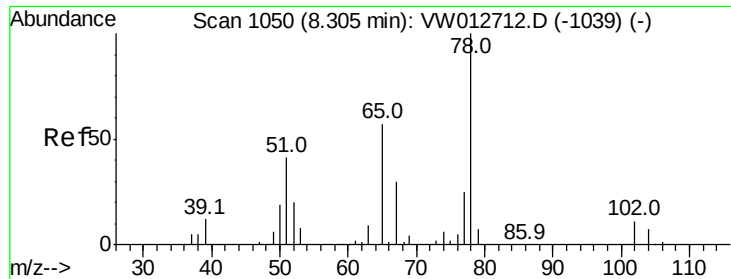
Tot Ion: 42 Resp: 1798
Ion Ratio Lower Upper
42 100
72 17.5 28.4 42.6#
71 29.5 27.1 40.7



#31
Cyclohexane
Concen: 1.802 ug/l
RT: 7.96 min Scan# 993
Delta R.T. 0.01 min
Lab File: VW012818.D
Acq: 09 Sep 2019 13:49

Tgt Ion: 56 Resp: 2463
Ion Ratio Lower Upper
56 100
69 128.8 25.7 38.5#
84 85.3 60.4 90.6





#33

1,2-Dichloroethane-d4

Concen: 52.565 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW012818.D

Acq: 09 Sep 2019 13:49

Instrument :

MSVOA_W

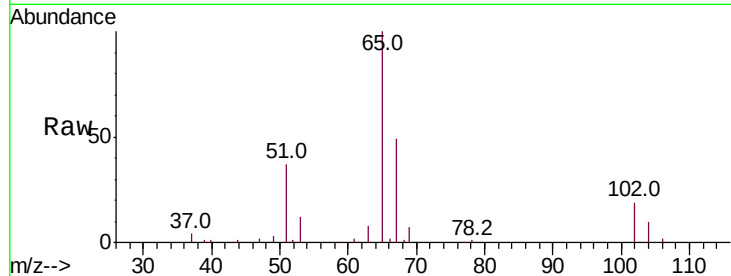
ClientSampled :

Tot Ion: 65 Resp: 48884

Ion Ratio Lower Upper

65 100

67 51.4 0.0 101.8



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW

8.31

25000

20000

15000

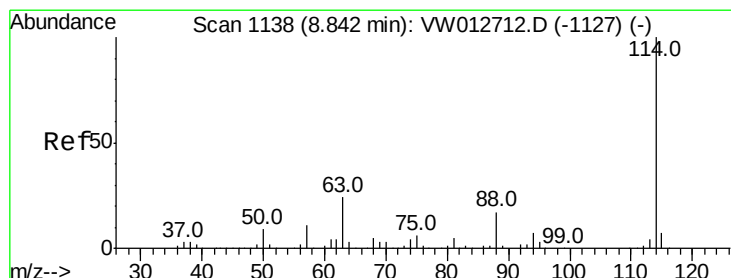
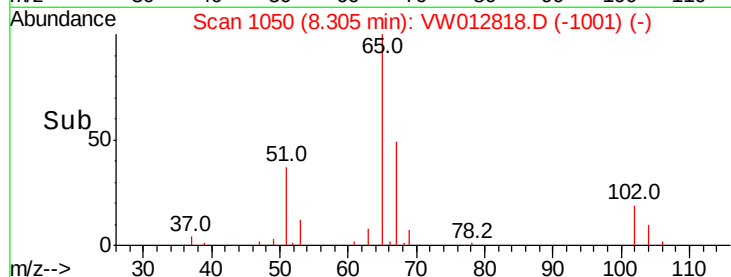
10000

5000

0

Time-->

8.20 8.30 8.40



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW012818.D

Acq: 09 Sep 2019 13:49

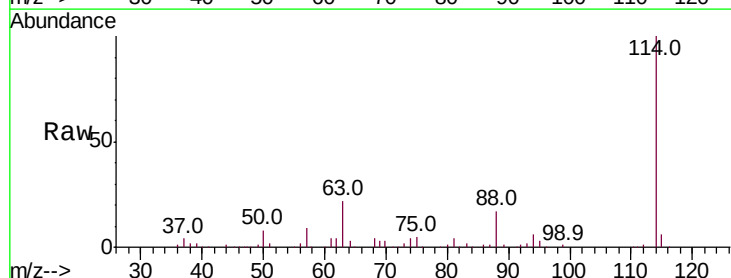
Tgt Ion: 114 Resp: 123779

Ion Ratio Lower Upper

114 100

63 21.9 0.0 47.2

88 17.1 0.0 34.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW

8.84

80000

60000

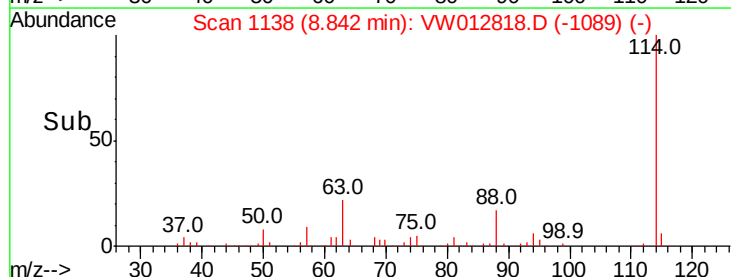
40000

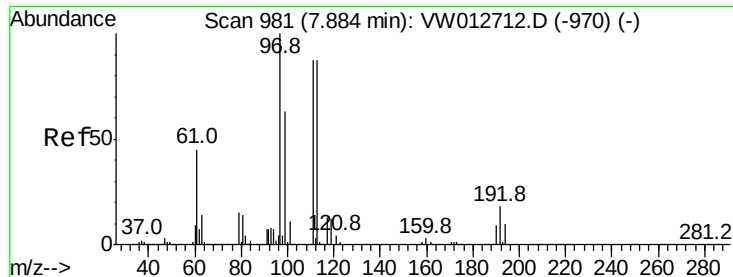
20000

0

Time-->

8.75 8.80 8.85 8.90 8.95





#35

Dibromofluoromethane

Concen: 52.379 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.01 min

Lab File: VW012818.D

Acq: 09 Sep 2019 13:49

Instrument :

MSVOA_W

ClientSampleId :

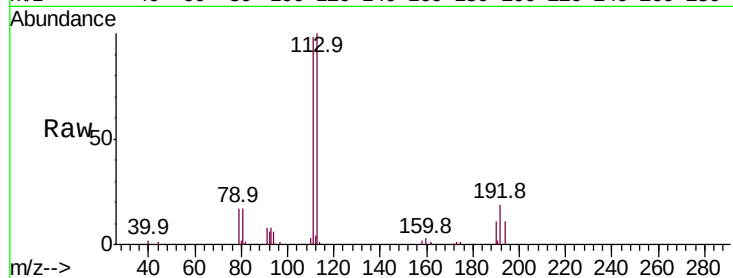
Tot Ion:113 Resp: 38546

Ion Ratio Lower Upper

113 100

111 101.5 80.2 120.4

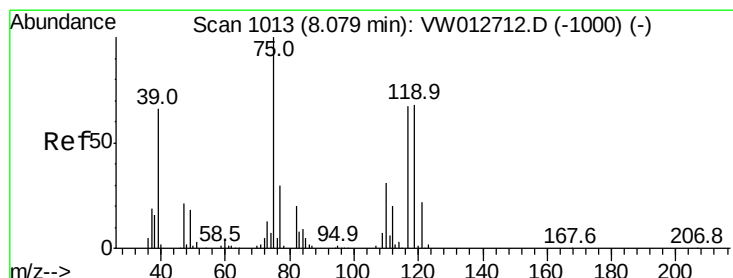
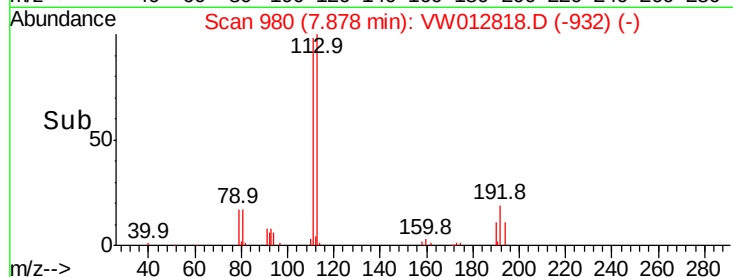
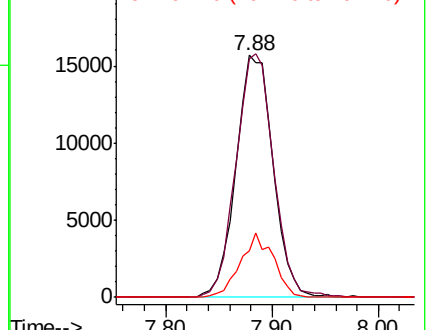
192 23.4 17.3 25.9



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 6.165 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW012818.D

Acq: 09 Sep 2019 13:49

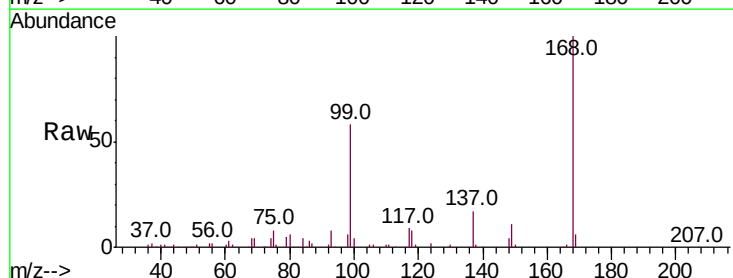
Tgt Ion: 75 Resp: 6780

Ion Ratio Lower Upper

75 100

110 8.7 15.9 47.7#

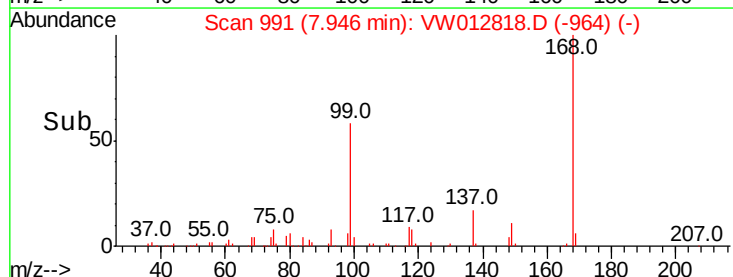
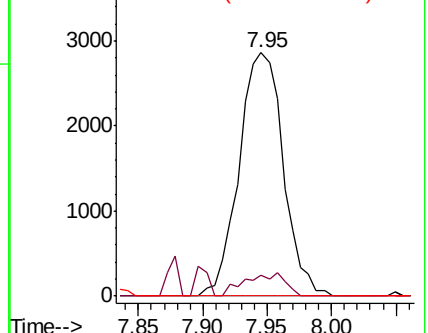
77 0.0 25.0 37.4#

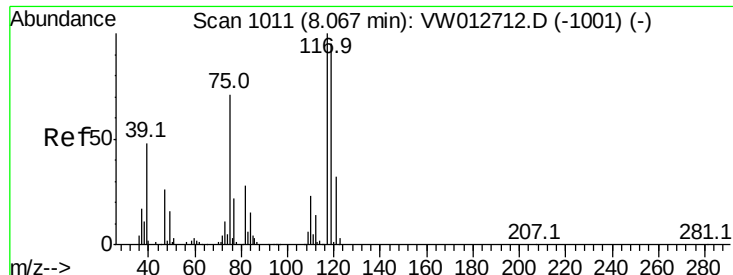


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 7.619 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW012818.D

Acq: 09 Sep 2019 13:49

Instrument :

MSVOA_W

ClientSampled :

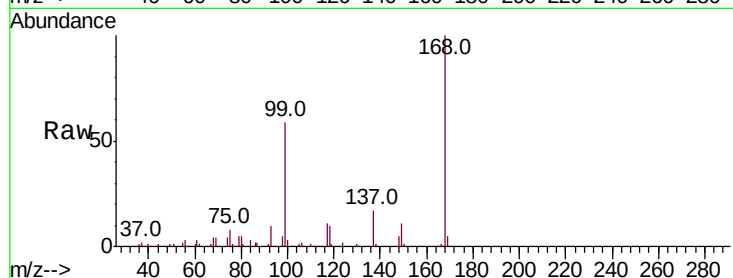
Tot Ion:117 Resp: 8260

Ion Ratio Lower Upper

117 100

119 6.7 76.2 114.2#

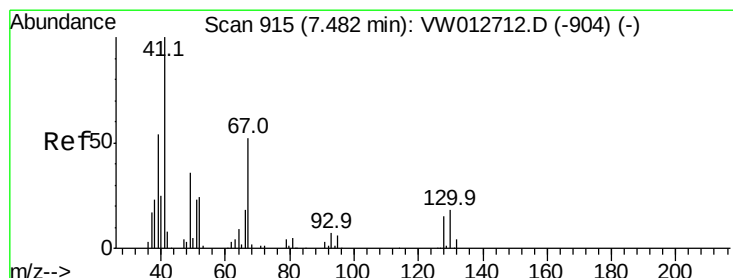
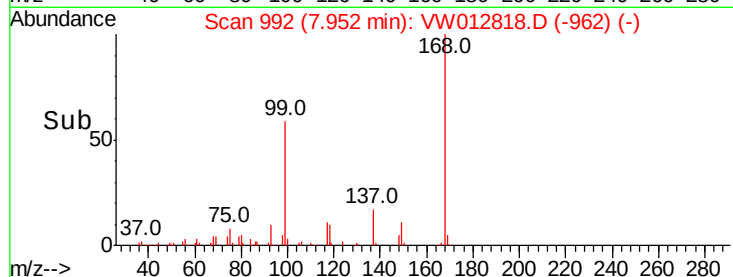
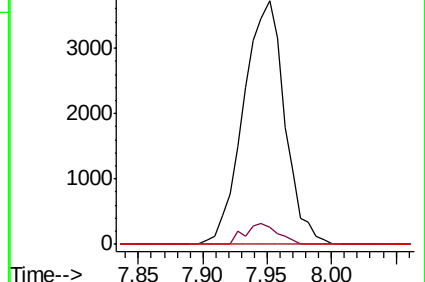
121 0.0 25.4 38.2#



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



#41

Methacrylonitrile

Concen: 3.988 ug/l

RT: 7.48 min Scan# 915

Delta R.T. 0.00 min

Lab File: VW012818.D

Acq: 09 Sep 2019 13:49

Tgt Ion: 41 Resp: 77

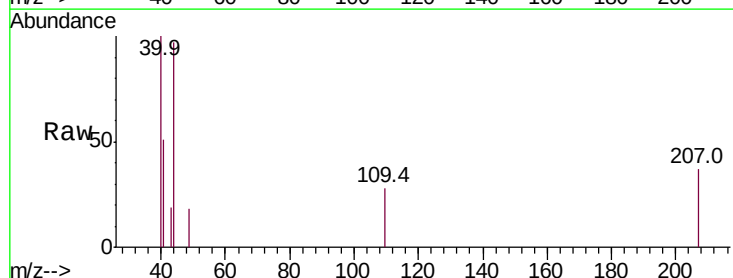
Ion Ratio Lower Upper

41 100

39 0.0 47.5 71.3#

67 0.0 45.1 67.7#

52 0.0 20.2 30.2#

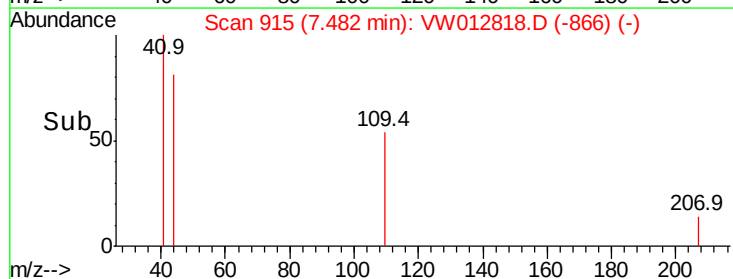
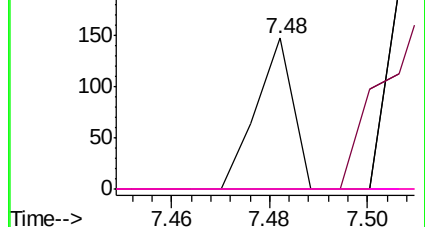


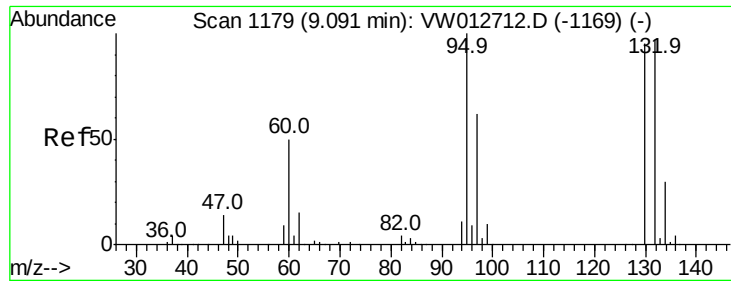
Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 67.00 (66.70 to 67.70): VW

Ion 52.00 (51.70 to 52.70): VW





#44

Trichloroethene

Concen: 10.128 ug/l

RT: 9.09 min Scan# 1178

Delta R.T. -0.01 min

Lab File: VW012818.D

Acq: 09 Sep 2019 13:49

Instrument :

MSVOA_W

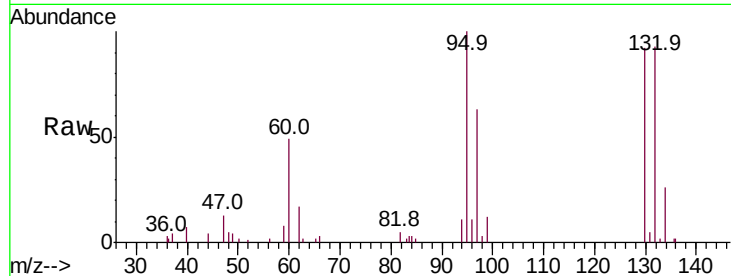
ClientSampled :

Tot Ion:130 Resp: 7966

Ion Ratio Lower Upper

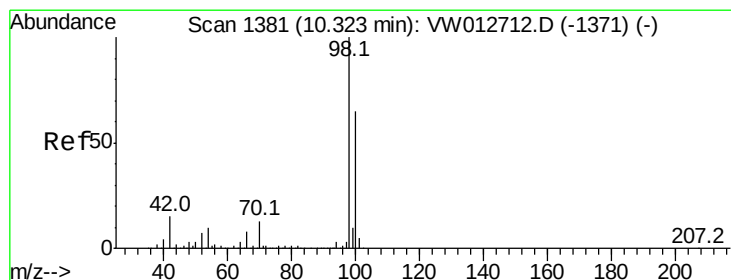
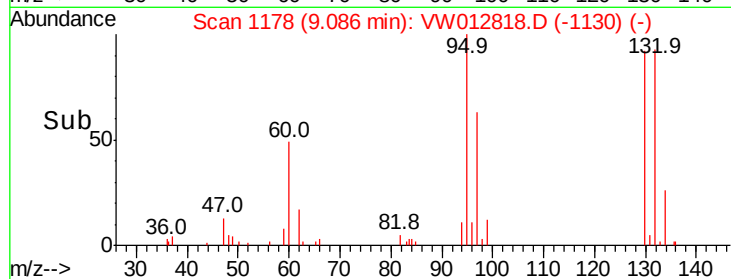
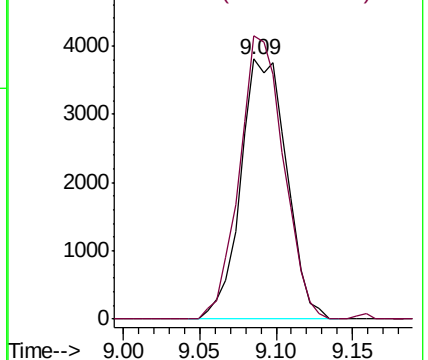
130 100

95 108.9 0.0 210.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VW



#50

Toluene-d8

Concen: 49.787 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW012818.D

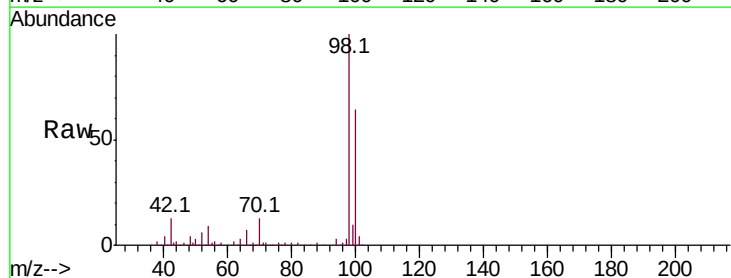
Acq: 09 Sep 2019 13:49

Tgt Ion: 98 Resp: 143540

Ion Ratio Lower Upper

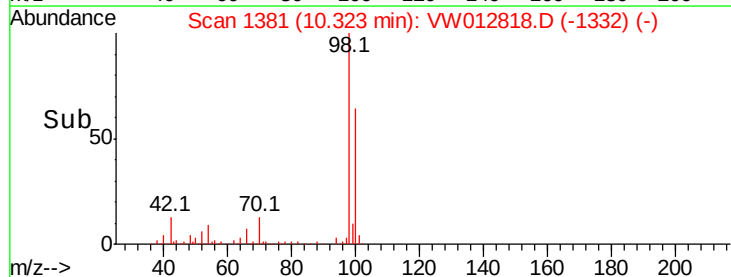
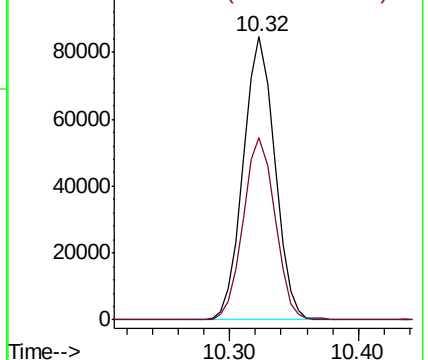
98 100

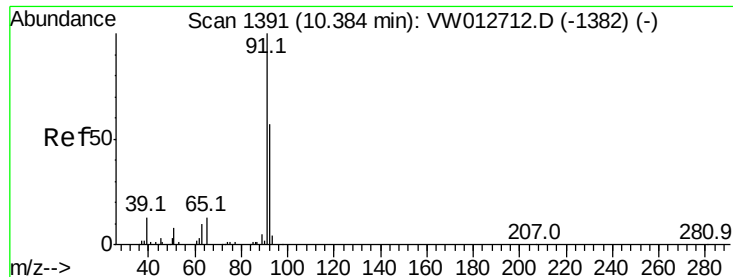
100 64.8 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#52

Toluene

Concen: 1.313 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW012818.D

Acq: 09 Sep 2019 13:49

Instrument :

MSVOA_W

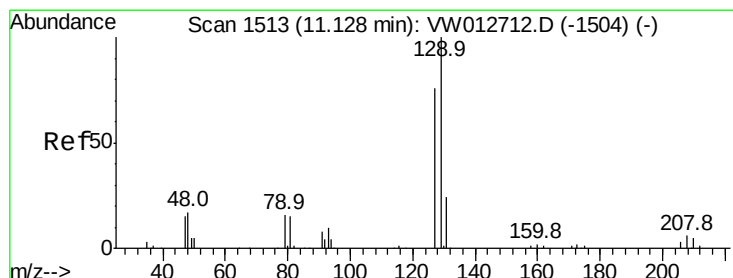
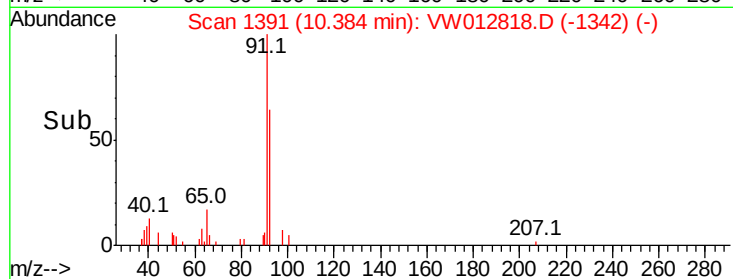
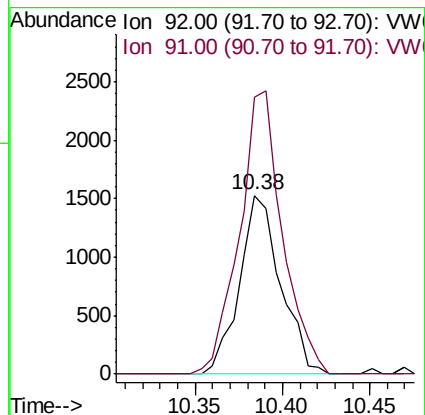
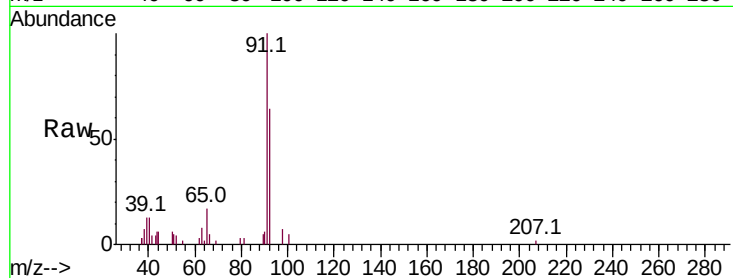
ClientSampled :

Tot Ion: 92 Resp: 2501

Ion Ratio Lower Upper

92 100

91 165.7 137.0 205.4



#60

Dibromochloromethane

Concen: 11.119 ug/l

RT: 10.86 min Scan# 1469

Delta R.T. -0.27 min

Lab File: VW012818.D

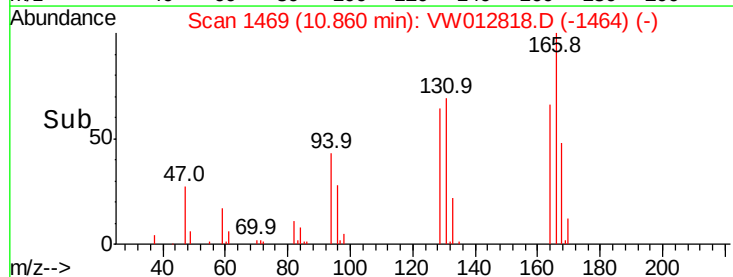
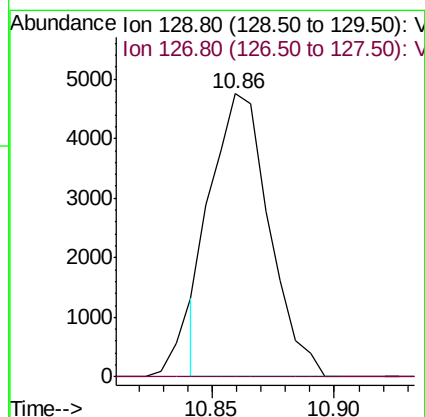
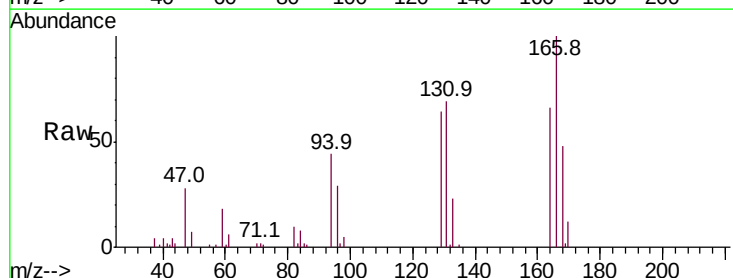
Acq: 09 Sep 2019 13:49

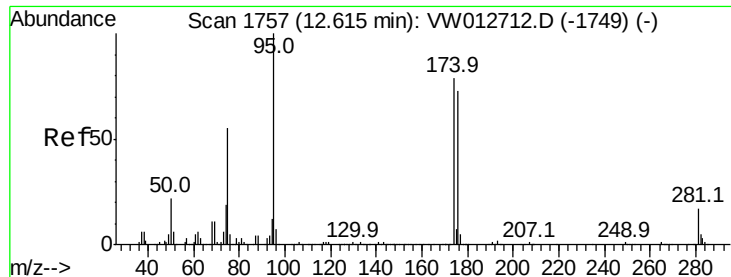
Tgt Ion: 129 Resp: 7846

Ion Ratio Lower Upper

129 100

127 0.0 38.6 115.8#

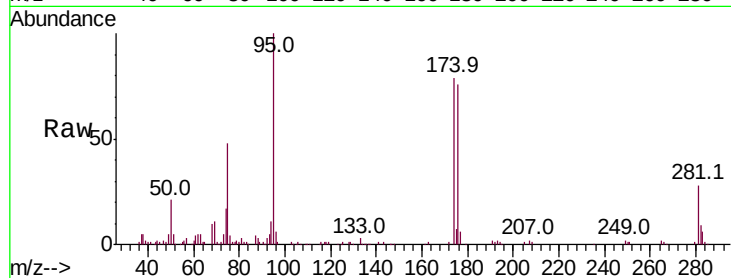




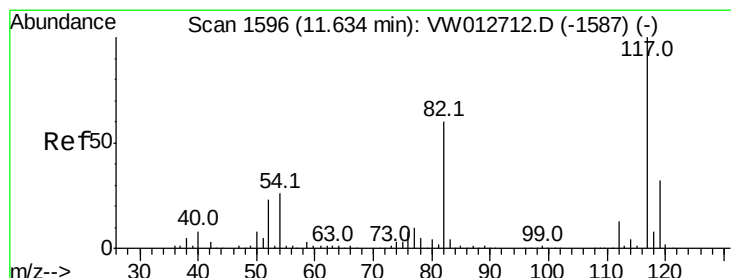
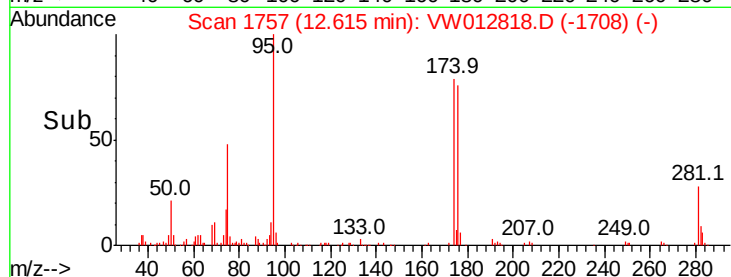
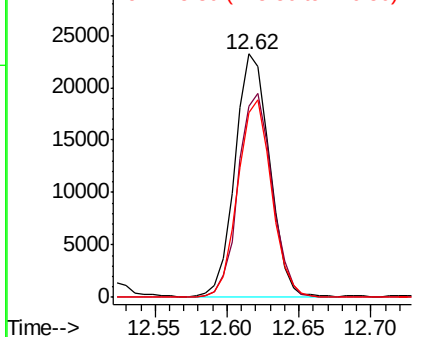
#62
4-Bromofluorobenzene
Concen: 36.974 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. 0.00 min
Lab File: VW012818.D
Acq: 09 Sep 2019 13:49

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 95 Resp: 38699
Ion Ratio Lower Upper
95 100
174 82.1 0.0 161.0
176 79.1 0.0 156.4

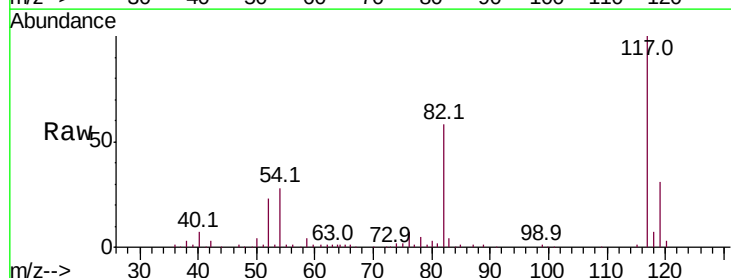


Abundance Ion 94.90 (94.60 to 95.60): VW
Ion 173.80 (173.50 to 174.50): VW
Ion 175.80 (175.50 to 176.50): VW

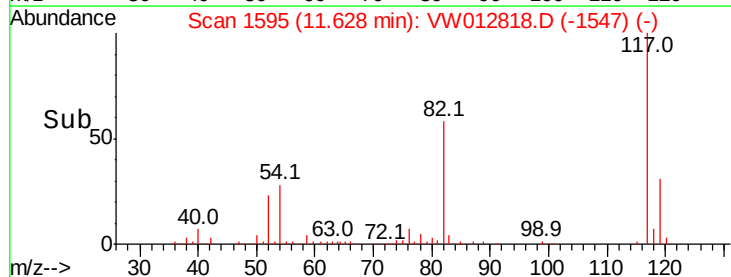
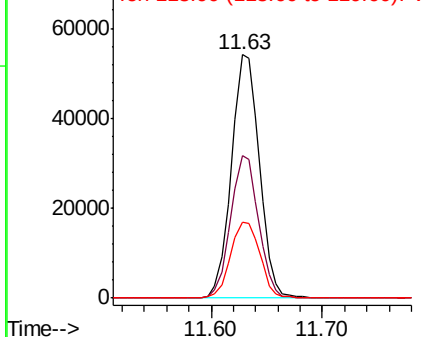


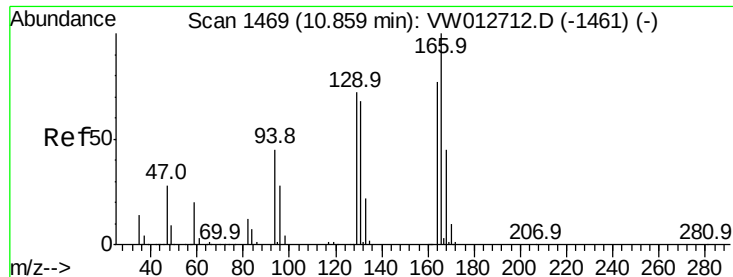
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW012818.D
Acq: 09 Sep 2019 13:49

Tgt Ion: 117 Resp: 93943
Ion Ratio Lower Upper
117 100
82 58.3 48.2 72.4
119 31.4 25.8 38.6



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

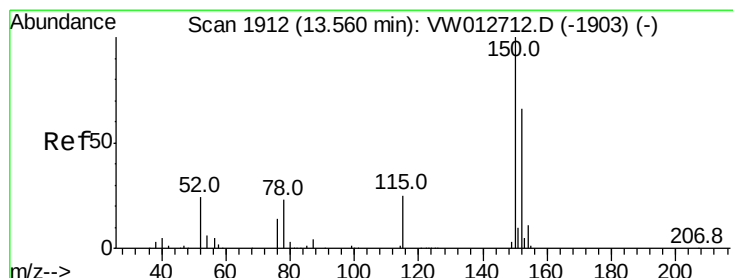
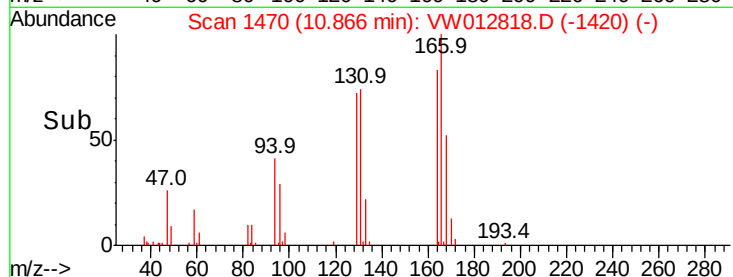
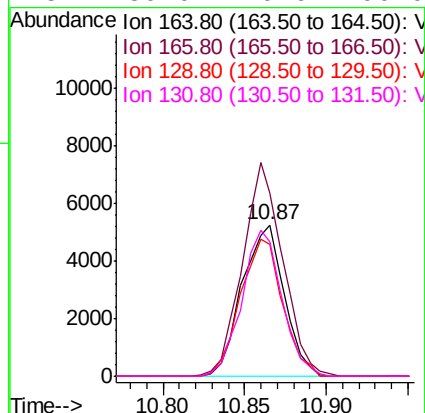
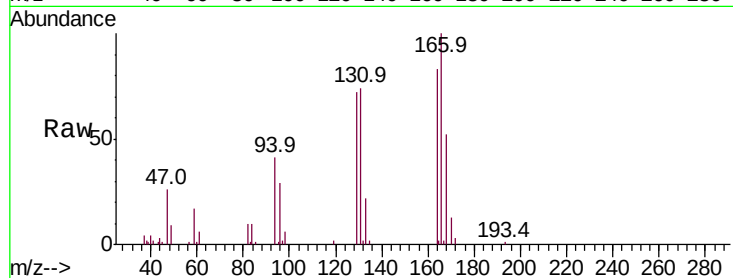




#64
Tetrachloroethene
Concen: 16.480 ug/l
RT: 10.87 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VW012818.D
Acq: 09 Sep 2019 13:49

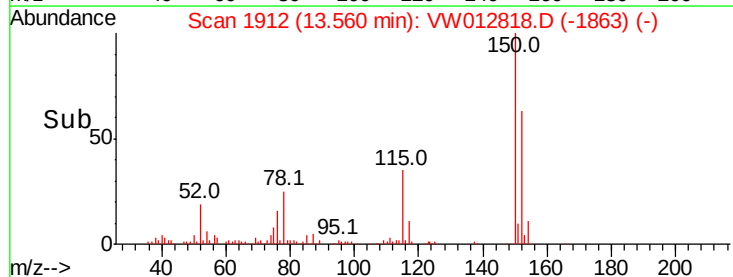
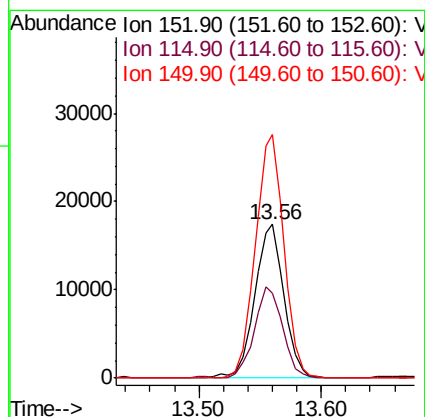
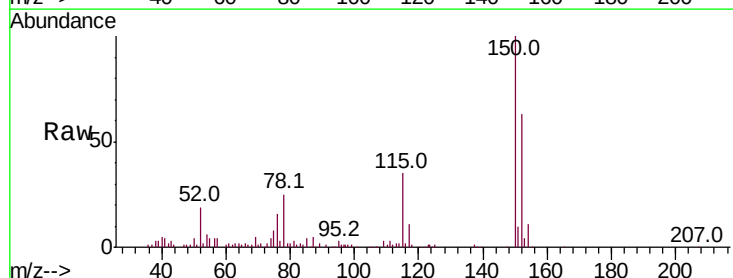
Instrument :
MSVOA_W
ClientSampled :

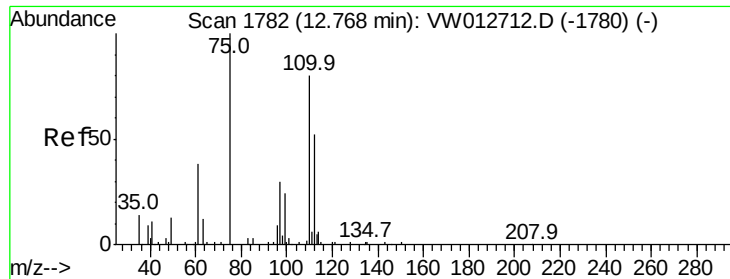
Tot Ion:164 Resp: 9394
Ion Ratio Lower Upper
164 100
166 120.8 103.6 155.4
129 87.4 74.6 112.0
131 89.0 70.6 106.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW012818.D
Acq: 09 Sep 2019 13:49

Tgt Ion:152 Resp: 29011
Ion Ratio Lower Upper
152 100
115 57.9 30.0 90.1
150 154.1 0.0 349.0





#76

1,2,3-Trichloropropane

Concen: 65.825 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012818.D

Acq: 09 Sep 2019 13:49

Instrument :

MSVOA_W

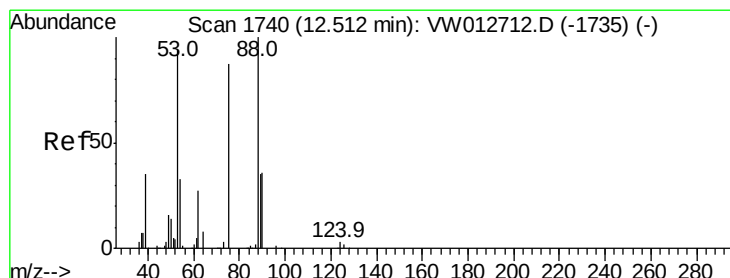
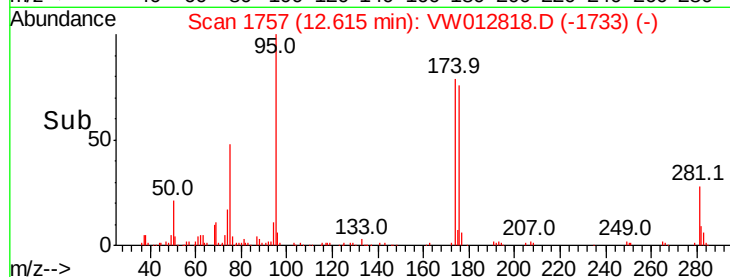
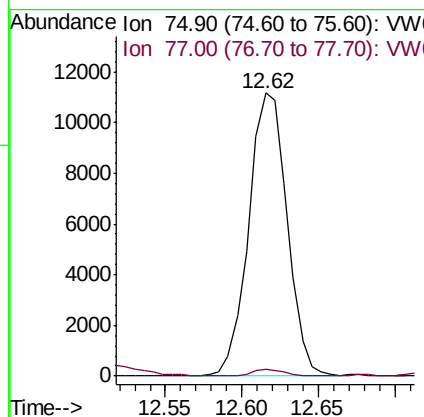
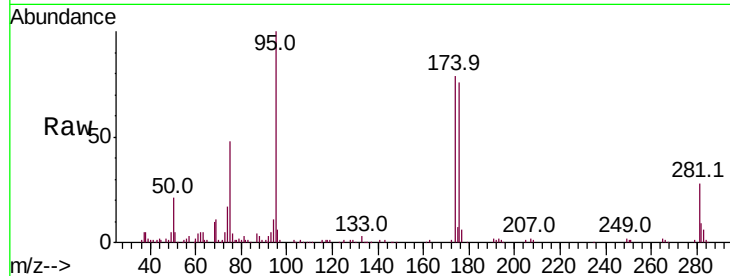
ClientSampleId :

Tot Ion: 75 Resp: 19527

Ion Ratio Lower Upper

75 100

77 1.9 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 139.224 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012818.D

Acq: 09 Sep 2019 13:49

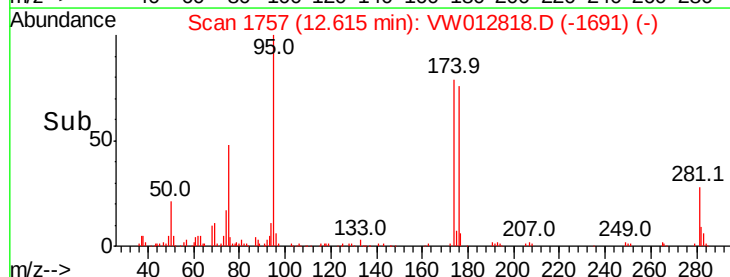
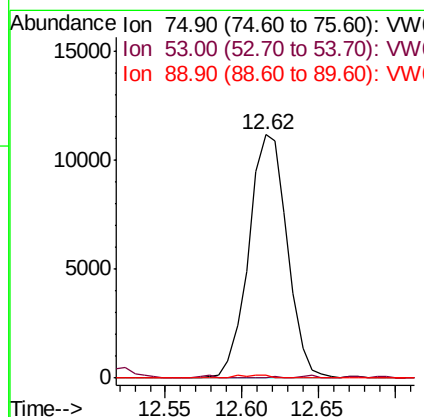
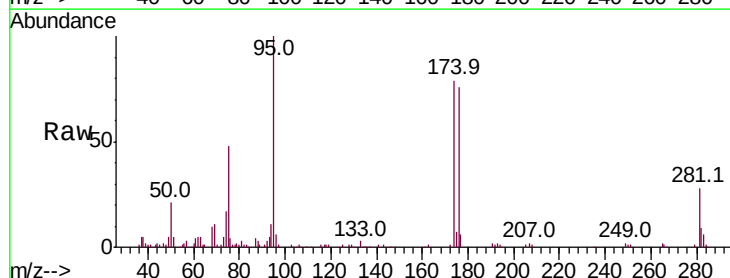
Tgt Ion: 75 Resp: 19527

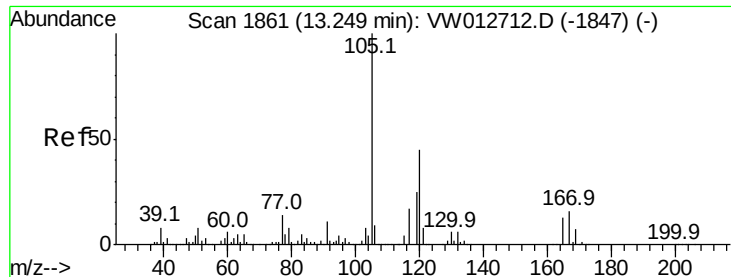
Ion Ratio Lower Upper

75 100

53 0.1 87.6 131.4#

89 0.9 35.5 53.3#

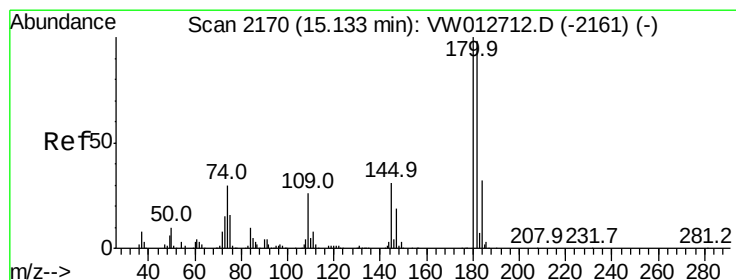
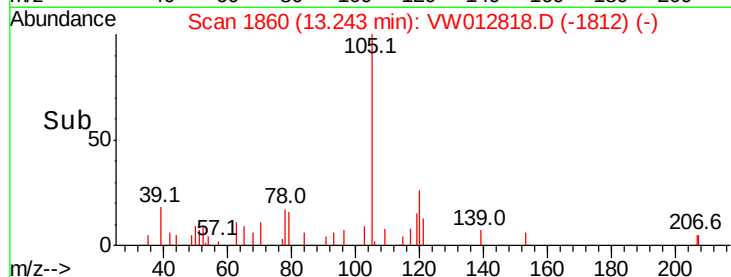
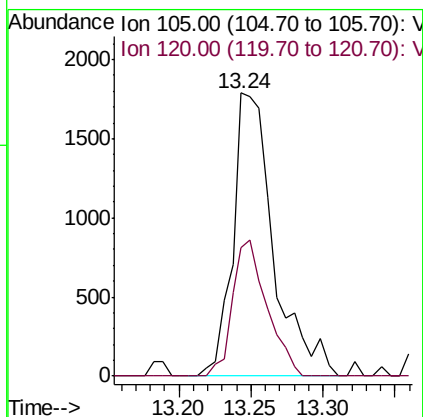
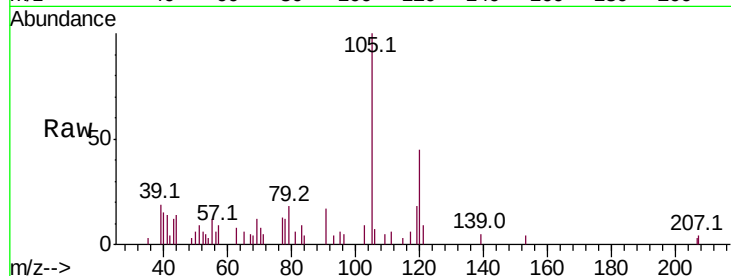




#84
 1,2,4-Trimethylbenzene
 Concen: 1.997 ug/l
 RT: 13.24 min Scan# 1860
 Delta R.T. -0.01 min
 Lab File: VW012818.D
 Acq: 09 Sep 2019 13:49

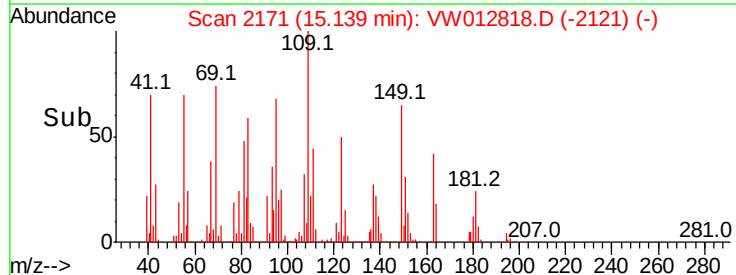
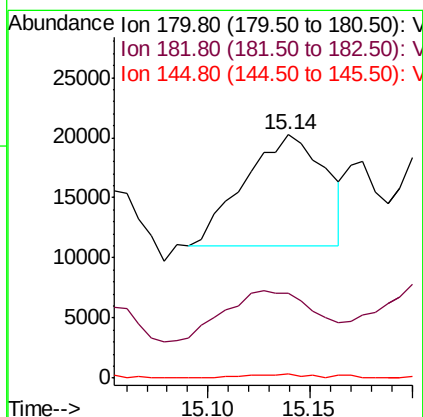
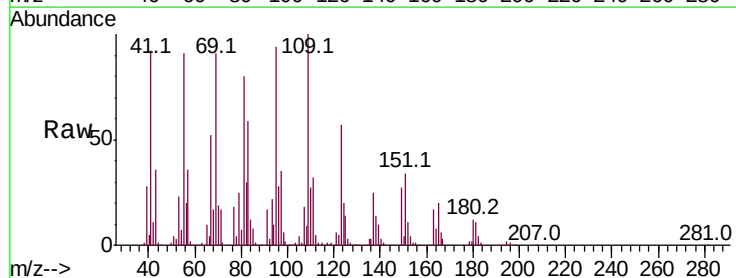
Instrument :
 MSVOA_W
 ClientSampled :

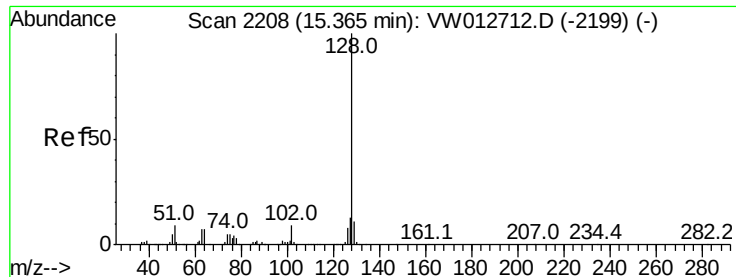
Tot Ion:105 Resp: 3528
 Ion Ratio Lower Upper
 105 100
 120 40.6 22.1 66.3



#93
 1,2,4-Trichlorobenzene
 Concen: 44.272 ug/l
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.01 min
 Lab File: VW012818.D
 Acq: 09 Sep 2019 13:49

Tgt Ion:180 Resp: 25706
 Ion Ratio Lower Upper
 180 100
 182 51.3 48.7 146.1
 145 2.4 15.0 45.1#

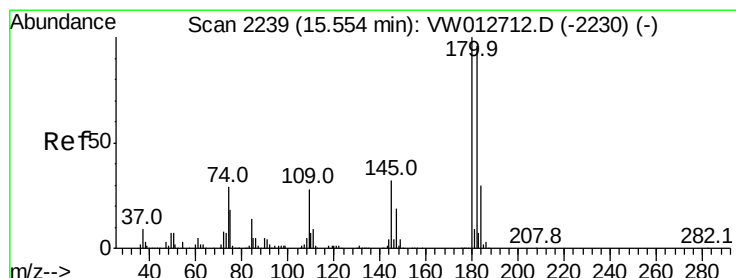
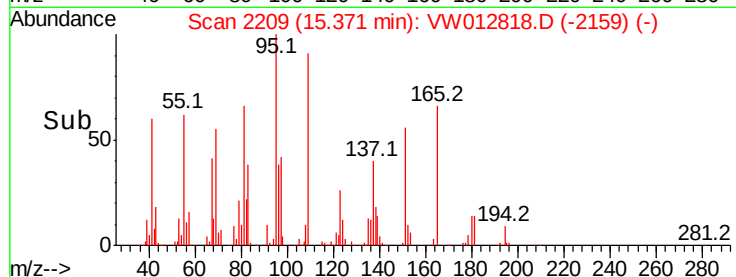
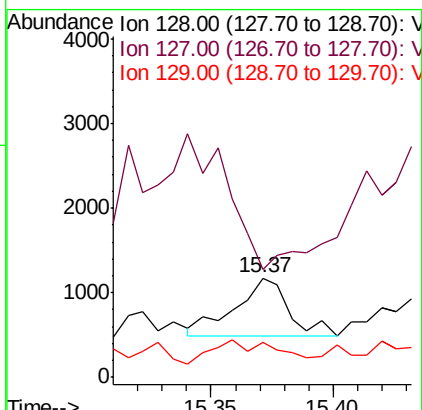
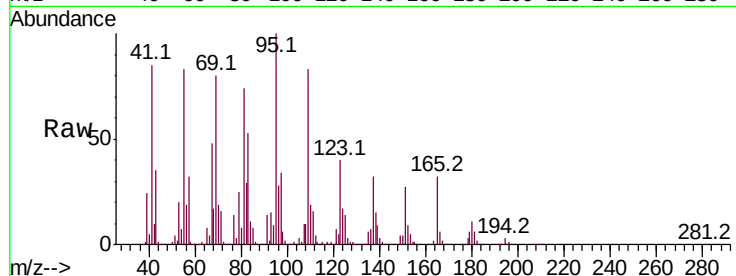




#95
Naphthalene
Concen: 5.230 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.01 min
Lab File: VW012818.D
Acq: 09 Sep 2019 13:49

Instrument :
MSVOA_W
ClientSampled :

Tot Ion:128 Resp: 1057
Ion Ratio Lower Upper
128 100
127 0.0 10.7 16.1#
129 50.0 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 93.567 ug/l
RT: 15.58 min Scan# 2243
Delta R.T. 0.02 min
Lab File: VW012818.D
Acq: 09 Sep 2019 13:49

Tgt Ion:180 Resp: 47956
Ion Ratio Lower Upper
180 100
182 7.4 47.8 143.3#
145 0.0 15.4 46.2#

