

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092019\
 Data File : VW013212.D
 Acq On : 21 Sep 2019 04:48
 Operator : SY/VA
 Sample : K4939-06
 Misc : 6.36G/5ML/MSVOA W/SOIL
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 21 06:25:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W092019S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 20 15:58:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	387844	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	591358	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	471620	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	145960	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	167711	52.98	ug/l	0.00
Spiked Amount			Recovery	=	105.96%	
35) Dibromofluoromethane	7.88	113	164851	50.68	ug/l	0.00
Spiked Amount			Recovery	=	101.36%	
50) Toluene-d8	10.32	98	680110	49.96	ug/l	0.00
Spiked Amount			Recovery	=	99.92%	
62) 4-Bromofluorobenzene	12.62	95	184559	39.69	ug/l	0.00
Spiked Amount			Recovery	=	79.38%	

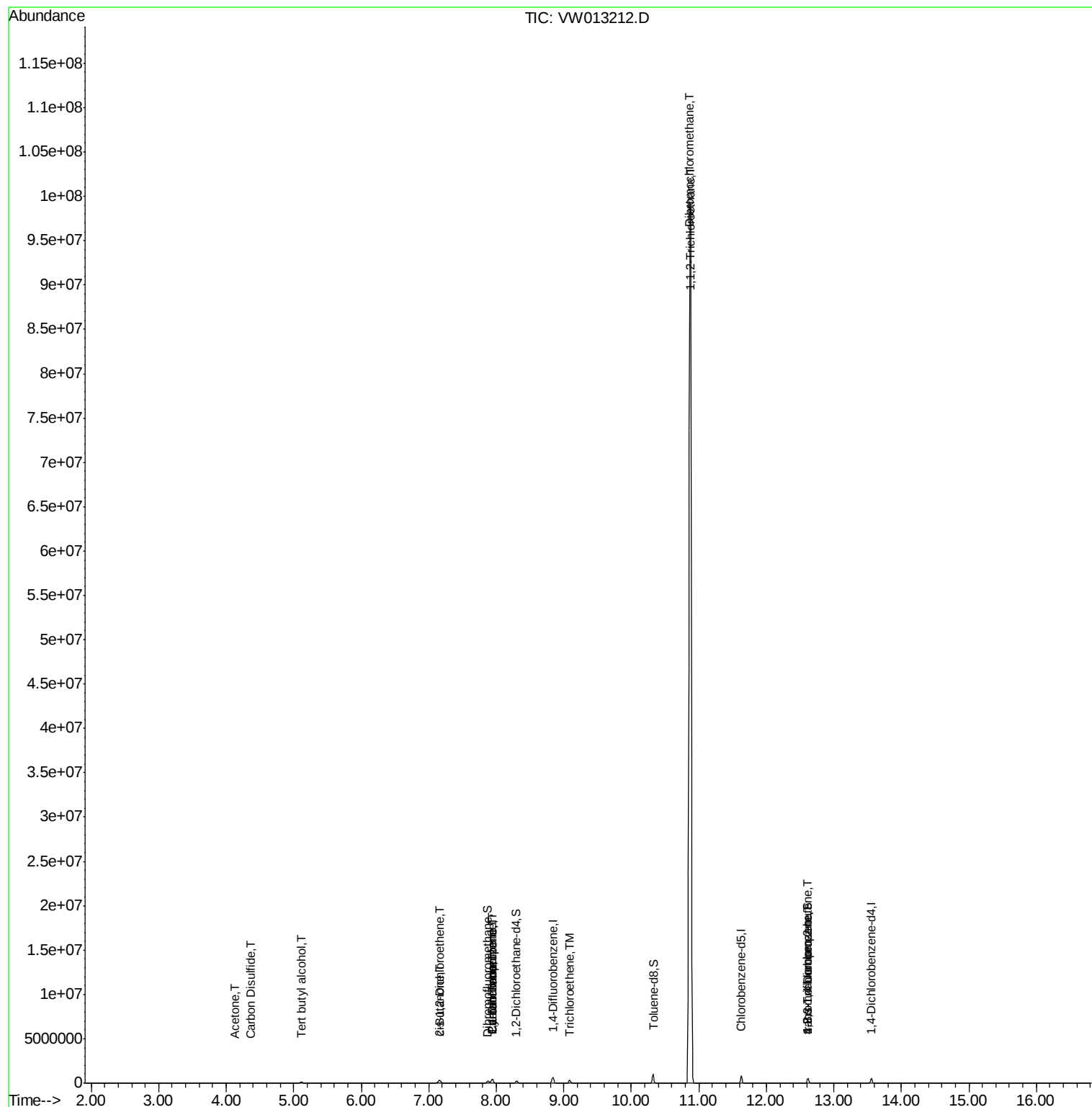
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.11	59	75062	332.763	ug/l #	77
16) Acetone	4.14	43	6745	9.449	ug/l	99
17) Carbon Disulfide	4.37	76	15309	1.470	ug/l	96
20) Methylene Chloride	4.92	84	9700	Below Cal	#	83
25) 2-Butanone	7.16	43	5957	5.559	ug/l	90
26) 2,2-Dichloropropane	7.14	77	6674	Below Cal	#	1
27) cis-1,2-Dichloroethene	7.16	96	158214	38.484	ug/l	93
31) Cyclohexane	7.95	56	8532	1.243	ug/l #	1
36) 1,1-Dichloropropene	7.94	75	25733	4.493	ug/l #	49
38) Carbon Tetrachloride	7.94	117	33171	6.460	ug/l #	18
44) Trichloroethene	9.09	130	120001	26.771	ug/l	95
55) 1,1,2-Trichloroethane	10.87	97	308399	108.958	ug/l #	1
60) Dibromochloromethane	10.86	129	2752125	856.314	ug/l #	11
76) 1,2,3-Trichloropropane	12.62	75	89131	69.146	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	89131	155.158	ug/l #	12

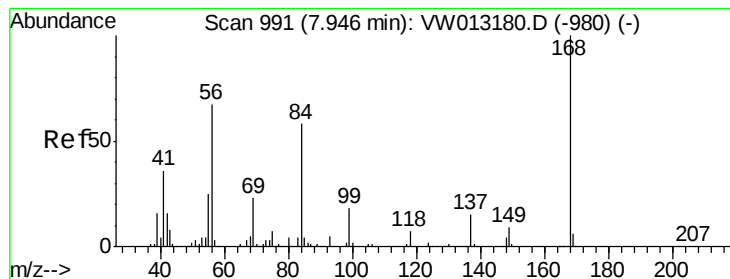
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW013212.D

Acq: 21 Sep 2019 04:48

Instrument :

MSVOA_W

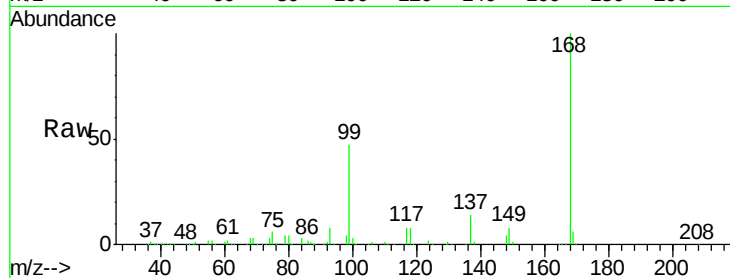
ClientSampled :

Tot Ion:168 Resp: 387844

Ion Ratio Lower Upper

168 100

99 47.0 40.2 60.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

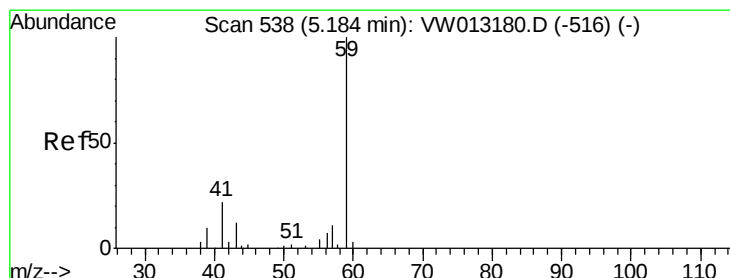
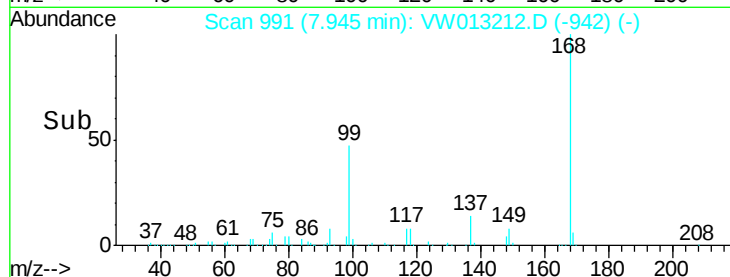
150000

100000

50000

0

Time--> 7.80 7.90 8.00



#11

Tert butyl alcohol

Concen: 332.763 ug/l

RT: 5.11 min Scan# 526

Delta R.T. -0.07 min

Lab File: VW013212.D

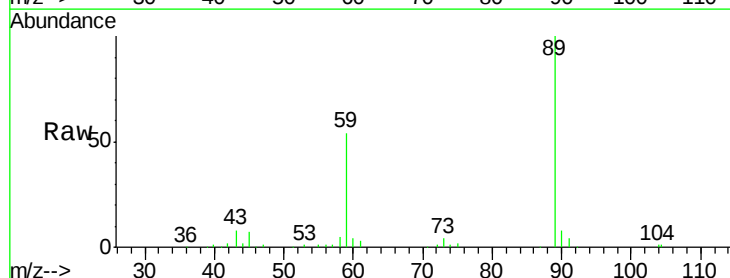
Acq: 21 Sep 2019 04:48

Tgt Ion: 59 Resp: 75062

Ion Ratio Lower Upper

59 100

57 1.6 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.11

20000

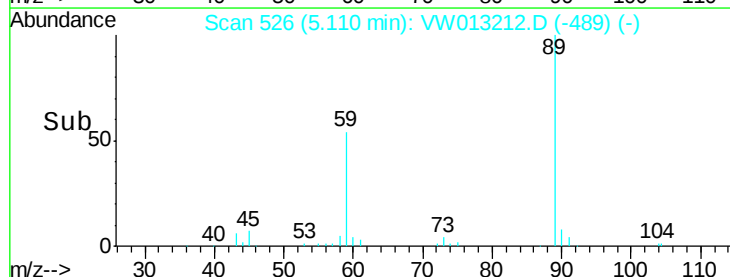
15000

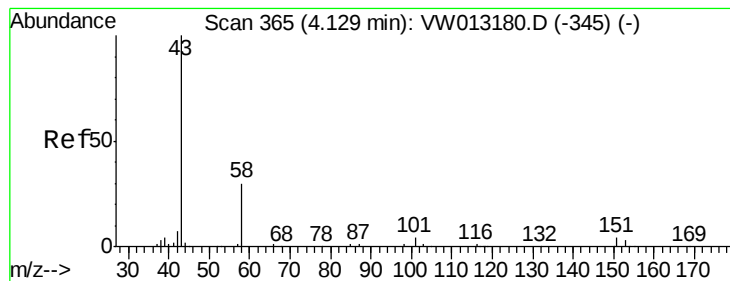
10000

5000

0

Time--> 5.00 5.10 5.20





#16

Acetone

Concen: 9.449 ug/l

RT: 4.14 min Scan# 367

Delta R.T. 0.01 min

Lab File: VW013212.D

Acq: 21 Sep 2019 04:48

Instrument :

MSVOA_W

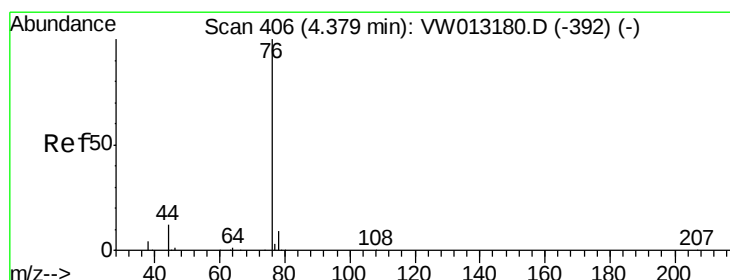
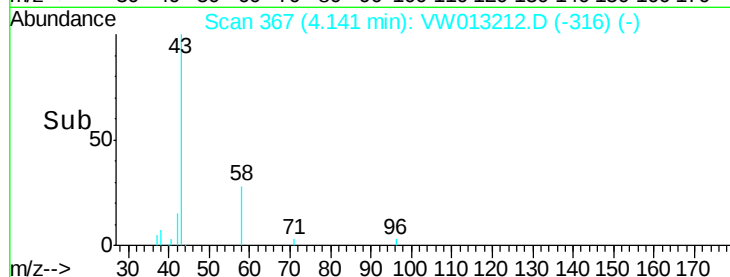
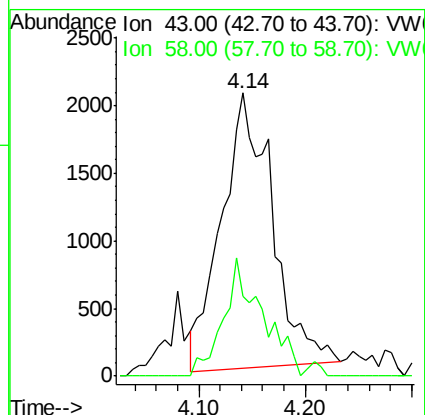
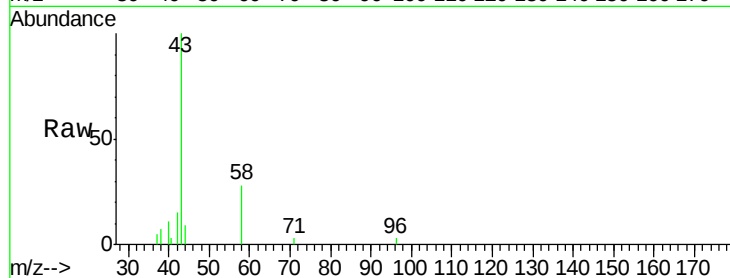
ClientSampleId :

Tot Ion: 43 Resp: 6745

Ion Ratio Lower Upper

43 100

58 29.6 24.1 36.1



#17

Carbon Disulfide

Concen: 1.470 ug/l

RT: 4.37 min Scan# 404

Delta R.T. -0.01 min

Lab File: VW013212.D

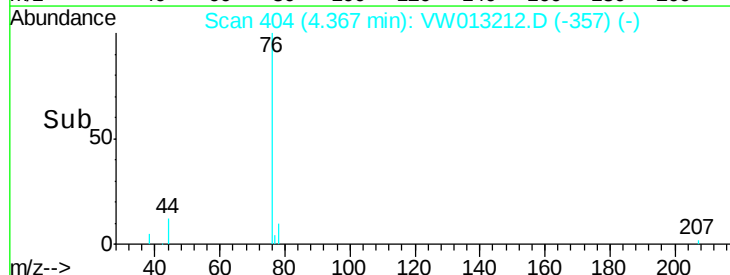
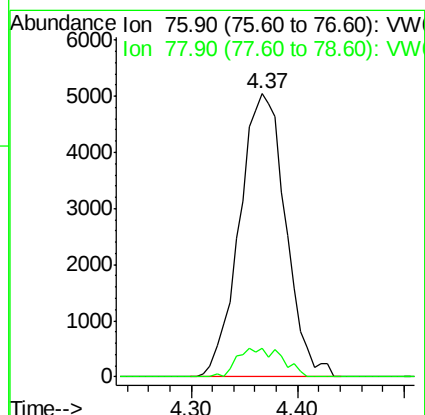
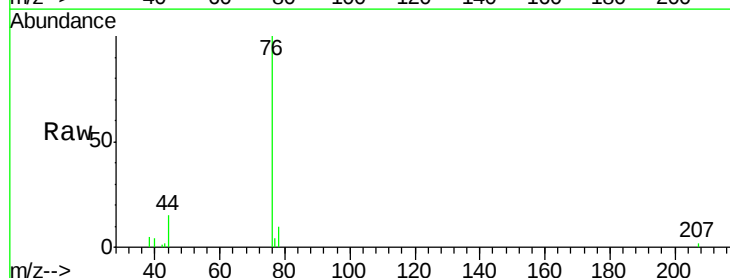
Acq: 21 Sep 2019 04:48

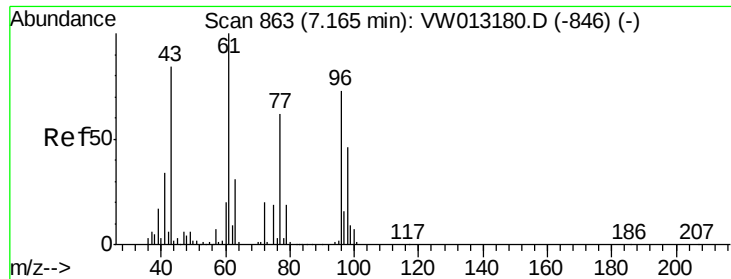
Tgt Ion: 76 Resp: 15309

Ion Ratio Lower Upper

76 100

78 10.2 7.0 10.4





#25

2-Butanone

Concen: 5.559 ug/l

RT: 7.16 min Scan# 862

Delta R.T. -0.01 min

Lab File: VW013212.D

Acq: 21 Sep 2019 04:48

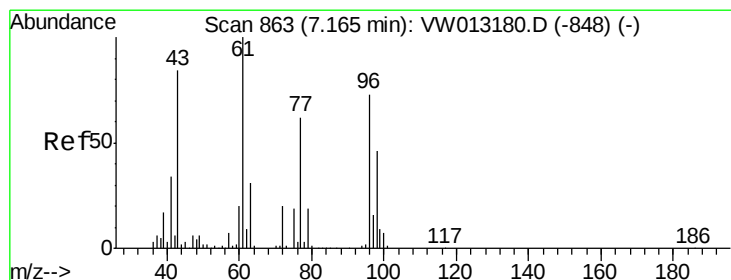
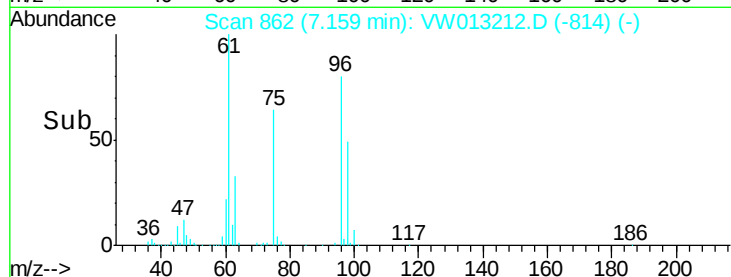
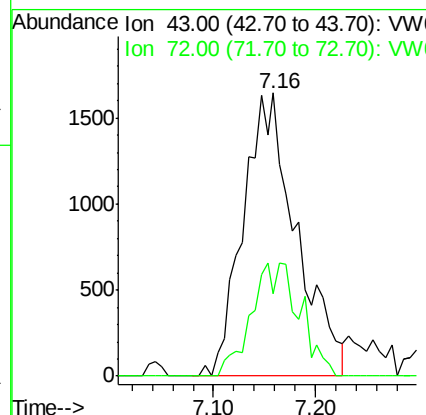
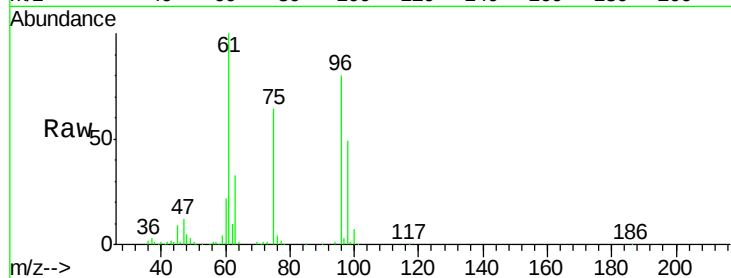
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 43 Resp: 5957

Ion Ratio Lower Upper

43 100

72 29.0 19.4 29.0



#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.14 min Scan# 859

Delta R.T. -0.02 min

Lab File: VW013212.D

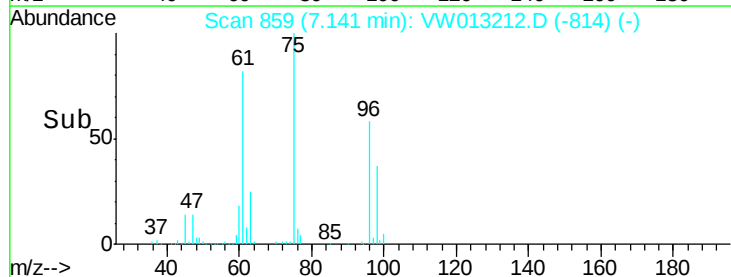
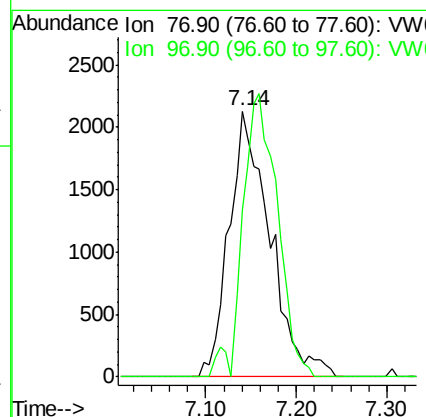
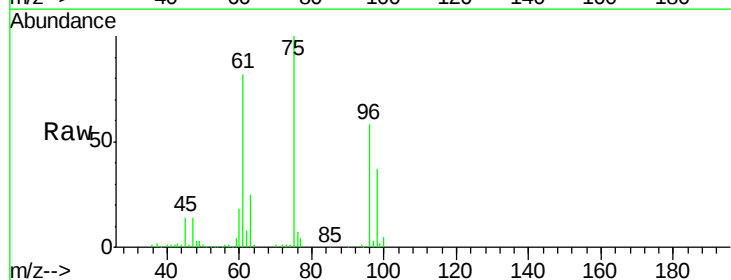
Acq: 21 Sep 2019 04:48

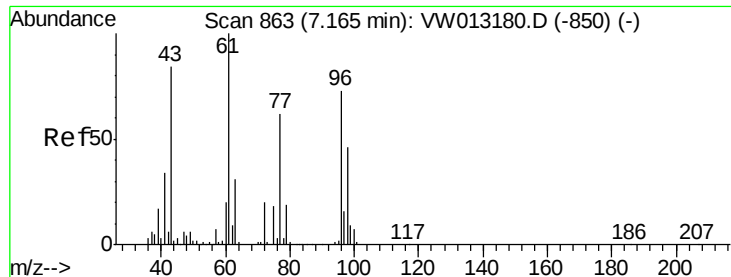
Tgt Ion: 77 Resp: 6674

Ion Ratio Lower Upper

77 100

97 90.1 11.8 35.4#



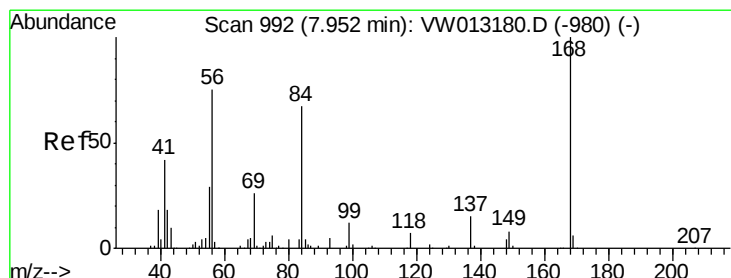
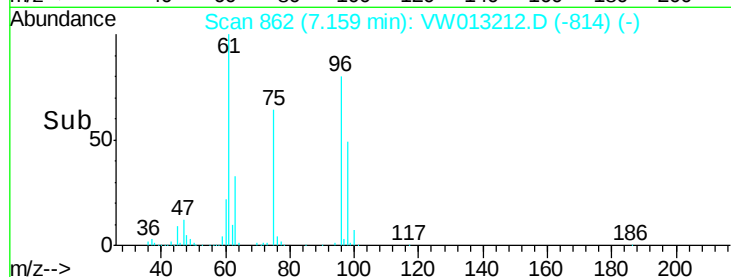
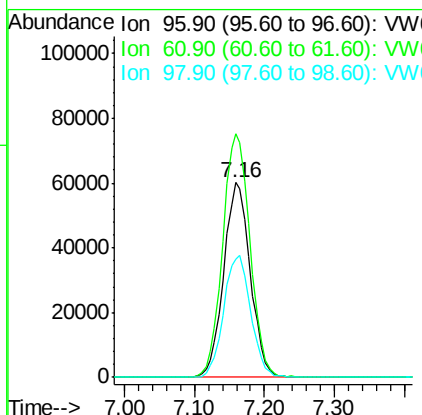
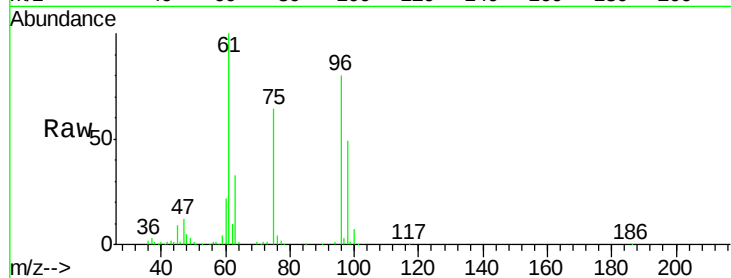


#27

cis-1,2-Dichloroethene
Concen: 38.484 ug/l
RT: 7.16 min Scan# 862
Delta R.T. -0.01 min
Lab File: VW013212.D
Acq: 21 Sep 2019 04:48

Instrument :
MSVOA_W
ClientSampleId :

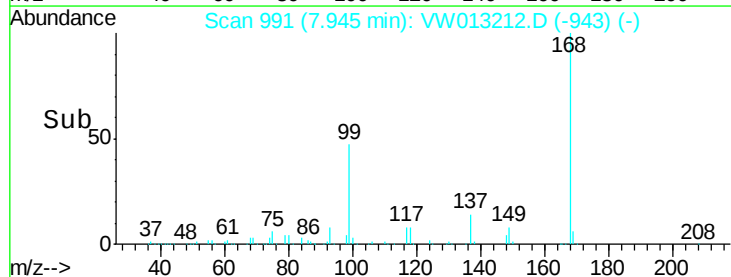
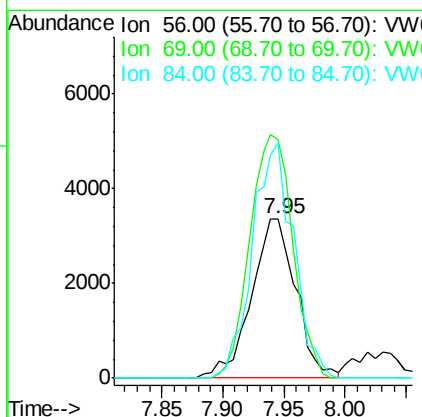
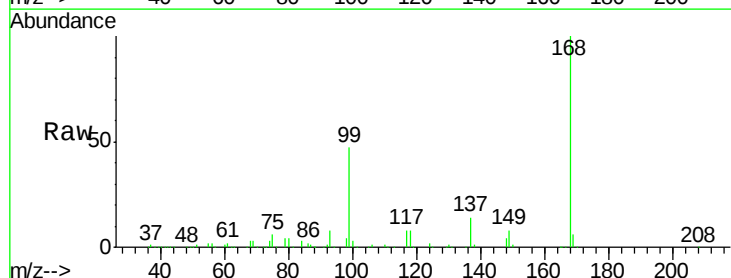
Tot Ion: 96 Resp: 158214
Ion Ratio Lower Upper
96 100
61 129.3 0.0 282.4
98 63.8 0.0 128.2

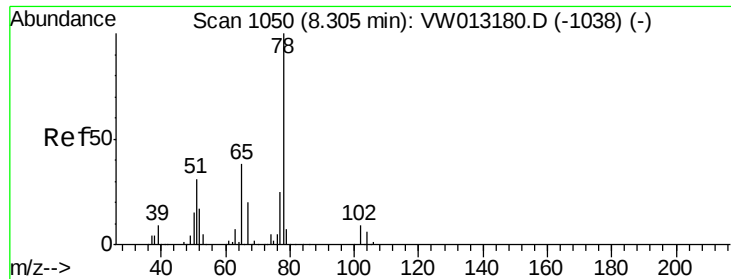


#31

Cyclohexane
Concen: 1.243 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW013212.D
Acq: 21 Sep 2019 04:48

Tgt Ion: 56 Resp: 8532
Ion Ratio Lower Upper
56 100
69 149.5 27.2 40.8#
84 147.2 70.8 106.2#





#33

1,2-Dichloroethane-d4

Concen: 52.983 ug/l

RT: 8.30 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VW013212.D

Acq: 21 Sep 2019 04:48

Instrument :

MSVOA_W

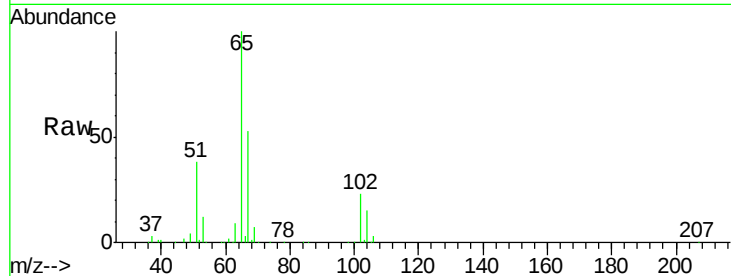
ClientSampleId :

Tot Ion: 65 Resp: 167711

Ion Ratio Lower Upper

65 100

67 52.7 0.0 106.2

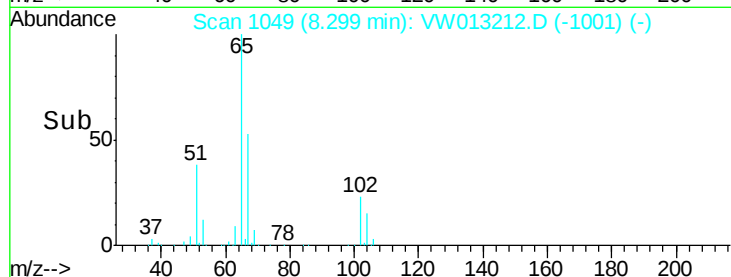


Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW

8.30

Time-->



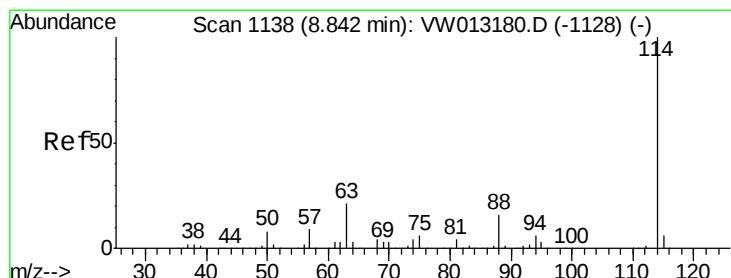
Abundance

Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW

8.30

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1137

Delta R.T. -0.01 min

Lab File: VW013212.D

Acq: 21 Sep 2019 04:48

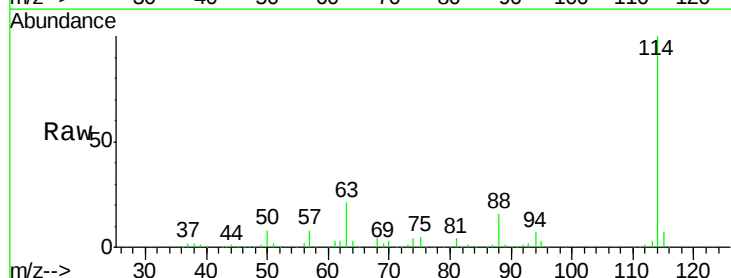
Tgt Ion: 114 Resp: 591358

Ion Ratio Lower Upper

114 100

63 20.7 0.0 41.4

88 15.6 0.0 32.0



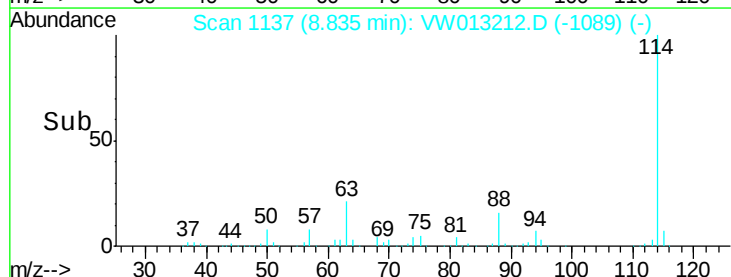
Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW

8.84

Time-->



Abundance

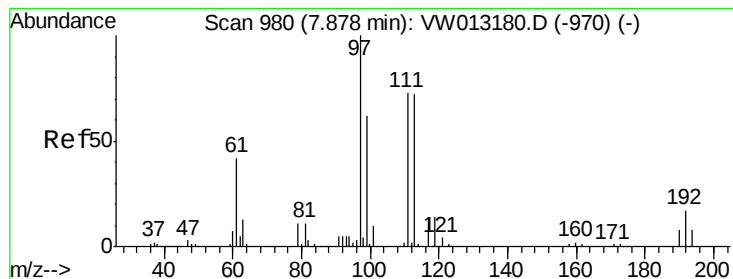
Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW

8.84

Time-->



#35

Dibromofluoromethane

Concen: 50.685 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.00 min

Lab File: VW013212.D

Acq: 21 Sep 2019 04:48

Instrument :

MSVOA_W

ClientSampleId :

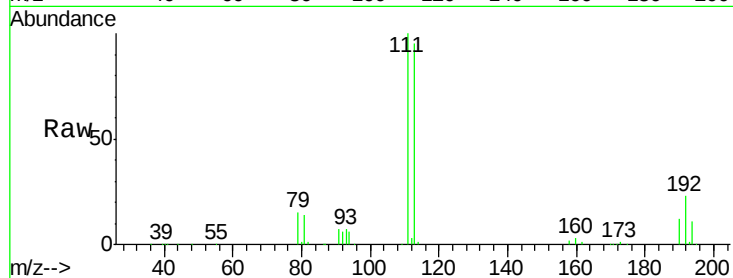
Tot Ion:113 Resp: 164851

Ion Ratio Lower Upper

113 100

111 101.9 81.9 122.9

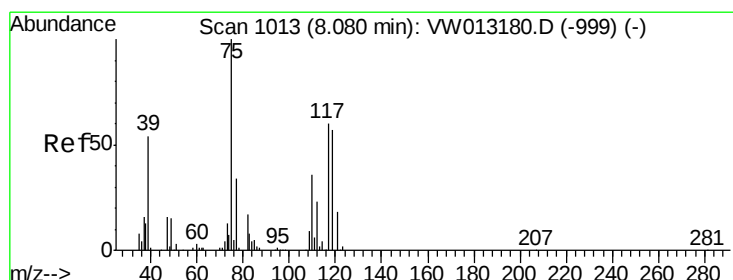
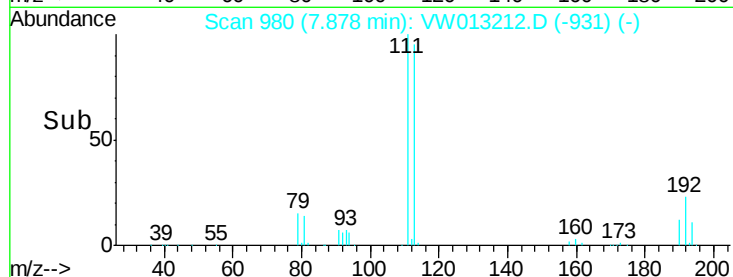
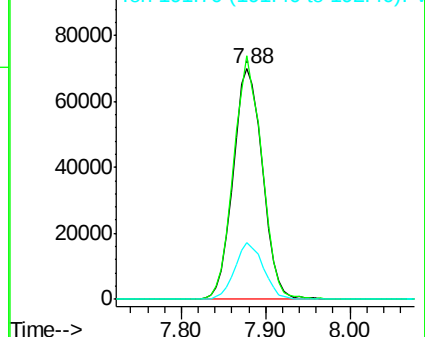
192 23.9 19.1 28.7



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.493 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW013212.D

Acq: 21 Sep 2019 04:48

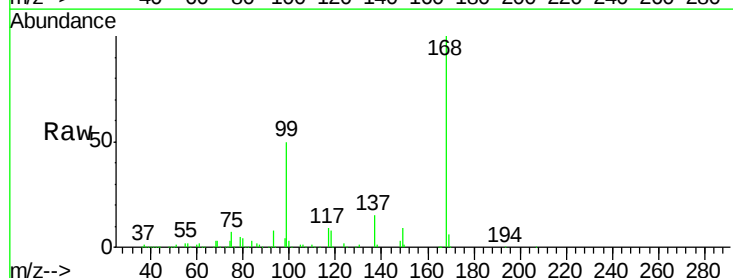
Tgt Ion: 75 Resp: 25733

Ion Ratio Lower Upper

75 100

110 8.8 18.1 54.3#

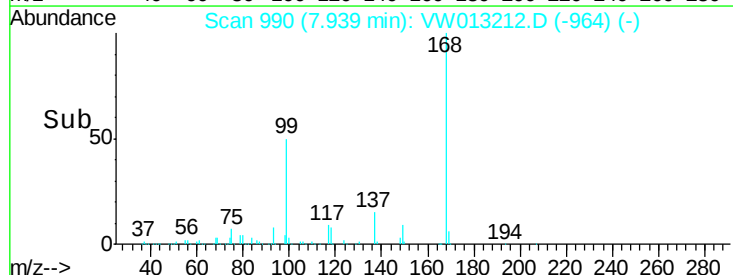
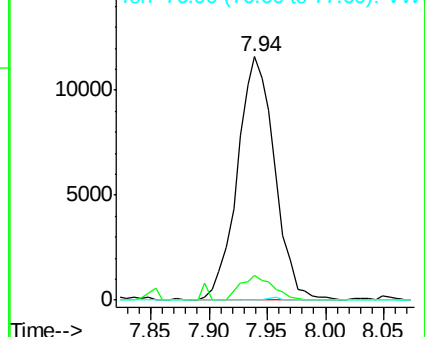
77 0.3 25.8 38.6#

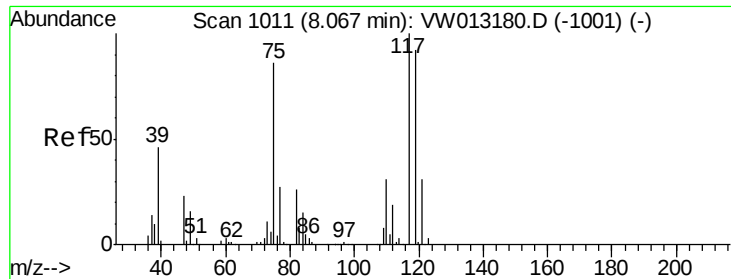


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 6.460 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.13 min

Lab File: VW013212.D

Acq: 21 Sep 2019 04:48

Instrument :

MSVOA_W

ClientSampled :

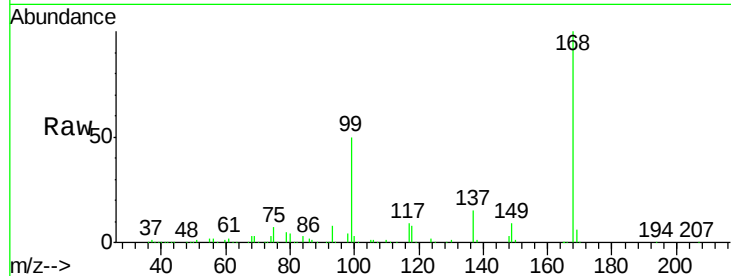
Tot Ion:117 Resp: 33171

Ion Ratio Lower Upper

117 100

119 5.4 73.5 110.3#

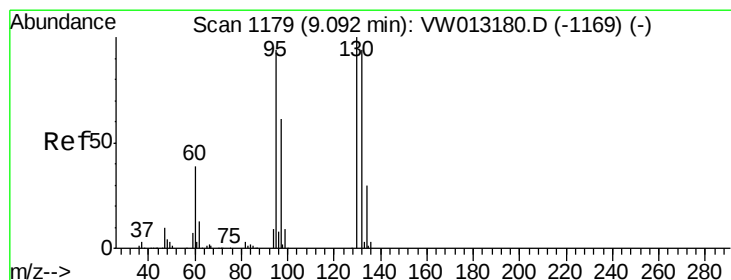
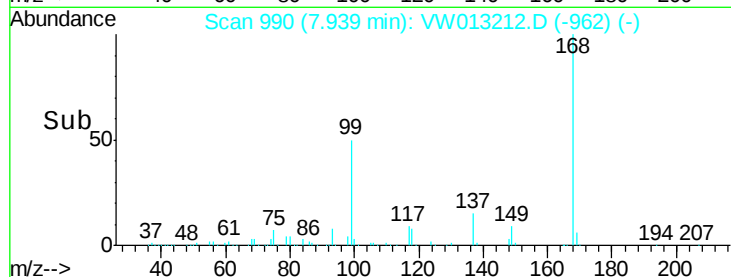
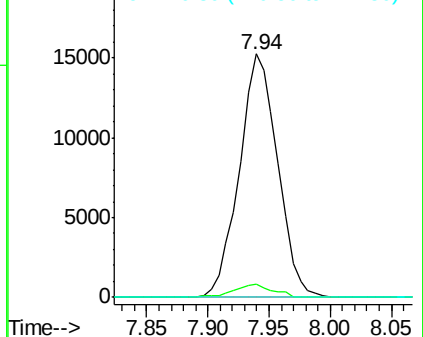
121 0.0 25.0 37.6#



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



#44

Trichloroethene

Concen: 26.771 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW013212.D

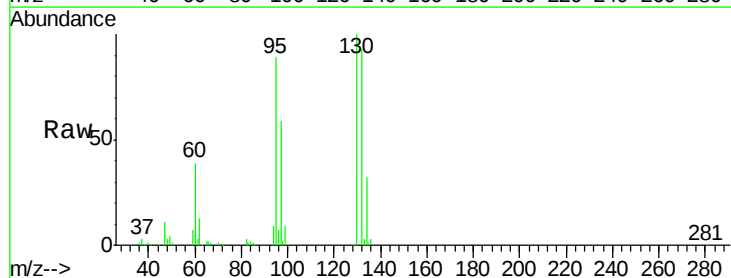
Acq: 21 Sep 2019 04:48

Tgt Ion:130 Resp: 120001

Ion Ratio Lower Upper

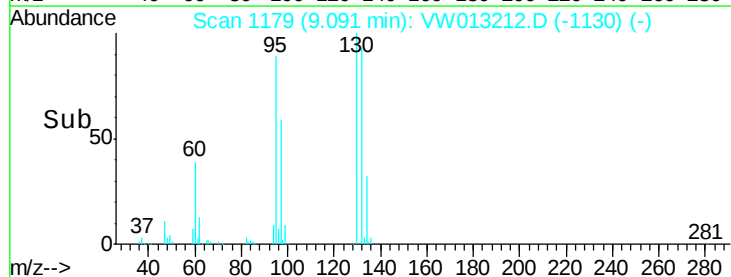
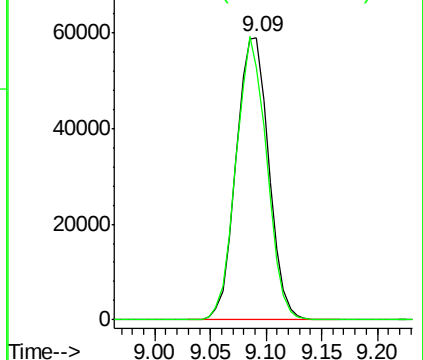
130 100

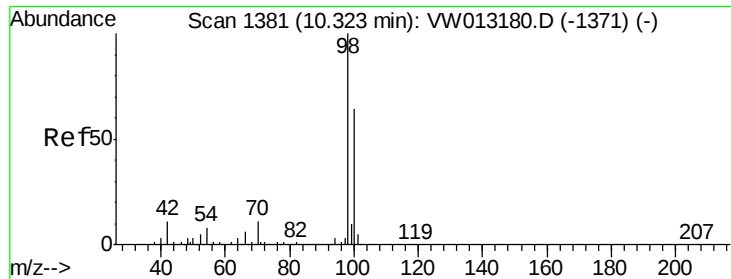
95 89.3 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VV





#50

Toluene-d8

Concen: 49.964 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW013212.D

Acq: 21 Sep 2019 04:48

Instrument :

MSVOA_W

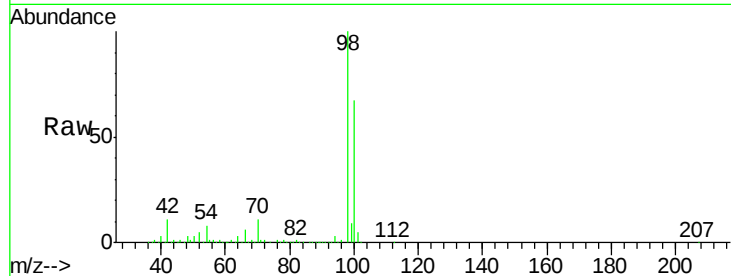
ClientSampleId :

Tot Ion: 98 Resp: 680110

Ion Ratio Lower Upper

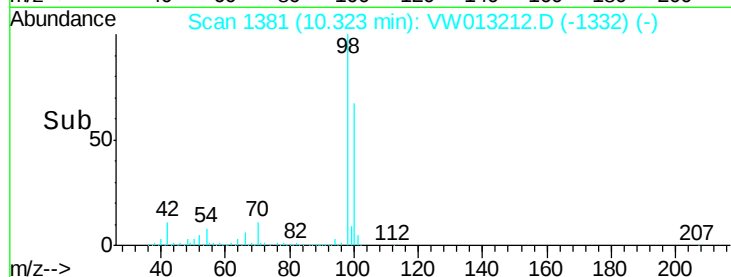
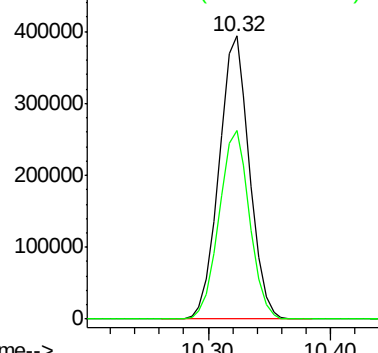
98 100

100 66.9 52.9 79.3

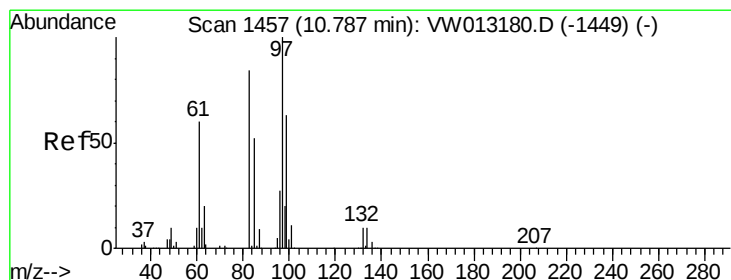


Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



Time-->



#55

1,1,2-Trichloroethane

Concen: 108.958 ug/l

RT: 10.87 min Scan# 1471

Delta R.T. 0.09 min

Lab File: VW013212.D

Acq: 21 Sep 2019 04:48

Tgt Ion: 97 Resp: 308399

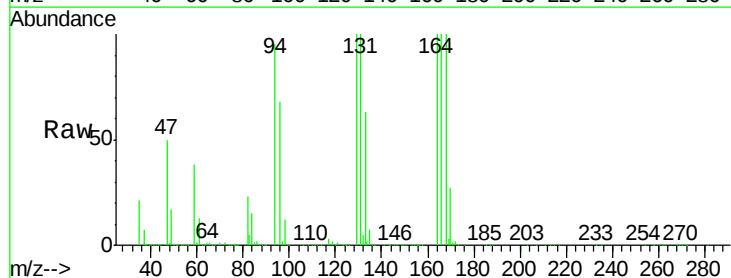
Ion Ratio Lower Upper

97 100

83 306.4 67.6 101.4#

85 40.0 41.9 62.9#

99 15.9 50.1 75.1#

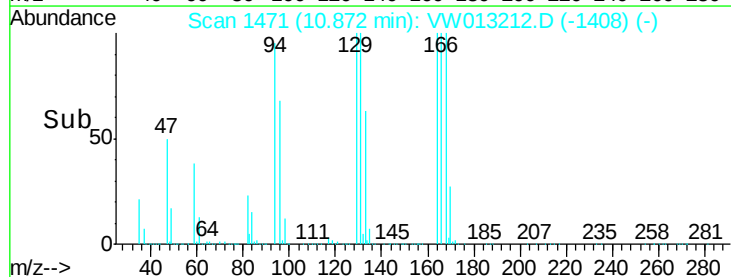
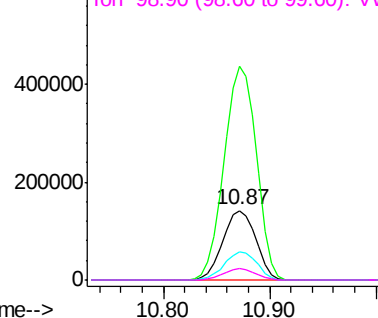


Abundance Ion 96.90 (96.60 to 97.60): VW

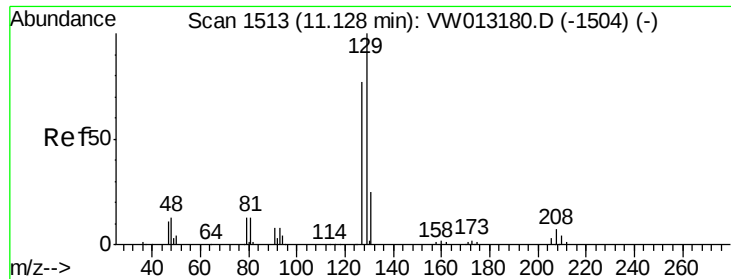
Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW



Time-->



#60

Dibromochloromethane

Concen: 856.314 ug/l

RT: 10.86 min Scan# 1469

Delta R.T. -0.27 min

Lab File: VW013212.D

Acq: 21 Sep 2019 04:48

Instrument :

MSVOA_W

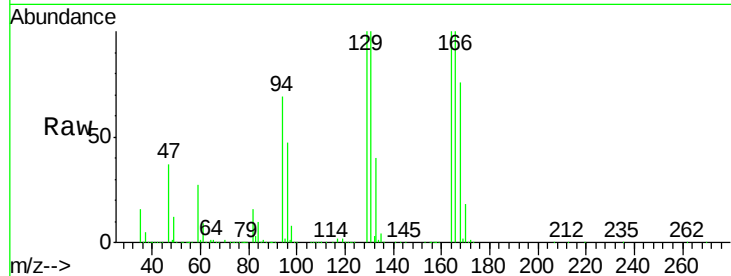
ClientSampleId :

Tot Ion:129 Resp: 2752125

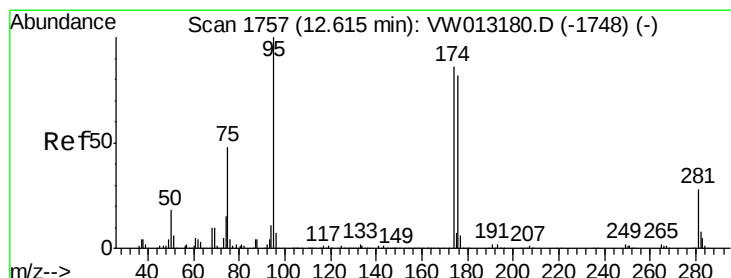
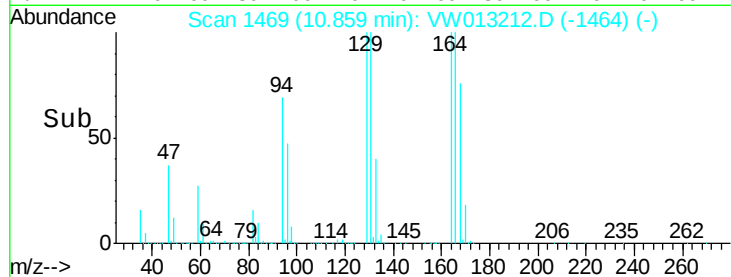
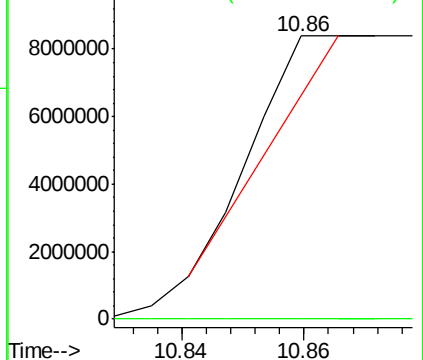
Ion Ratio Lower Upper

129 100

127 0.0 38.8 116.4#



Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 39.692 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW013212.D

Acq: 21 Sep 2019 04:48

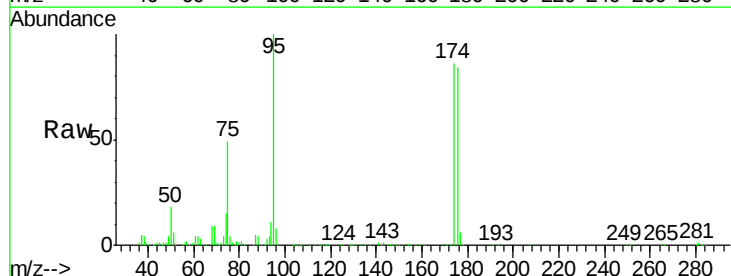
Tgt Ion: 95 Resp: 184559

Ion Ratio Lower Upper

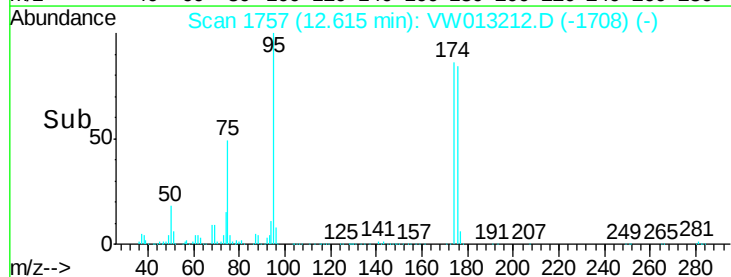
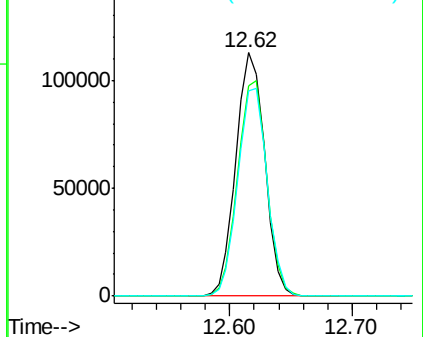
95 100

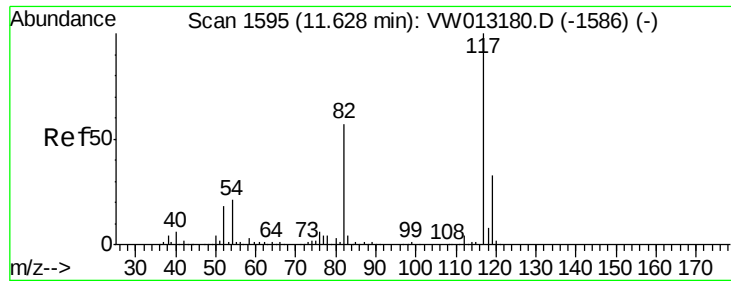
174 89.4 0.0 178.4

176 87.1 0.0 172.2



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

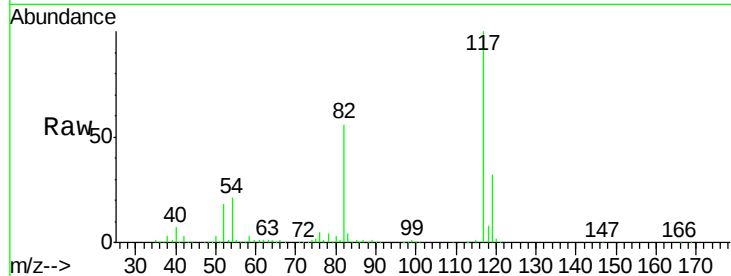




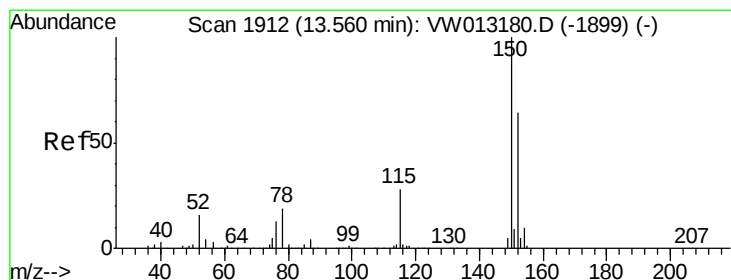
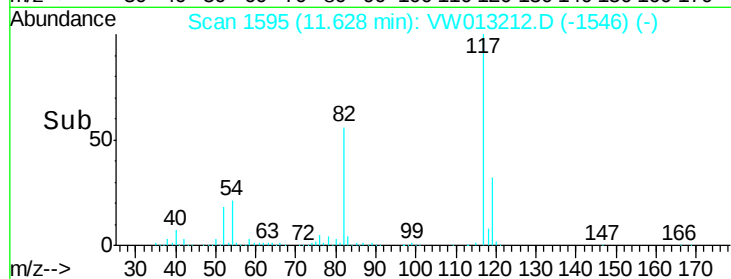
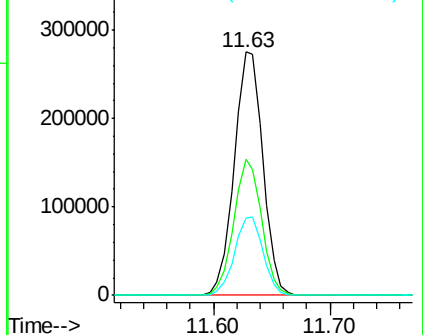
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.00 min
Lab File: VW013212.D
Acq: 21 Sep 2019 04:48

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:117 Resp: 471620
Ion Ratio Lower Upper
117 100
82 56.1 45.9 68.9
119 31.6 26.2 39.2

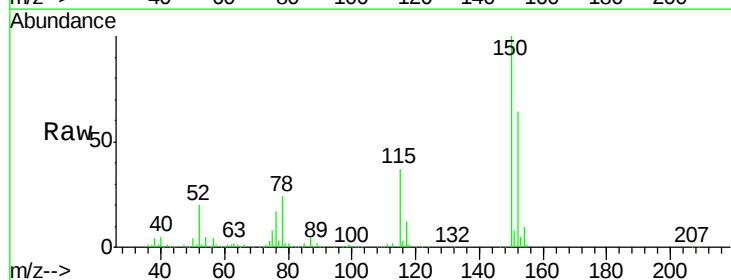


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

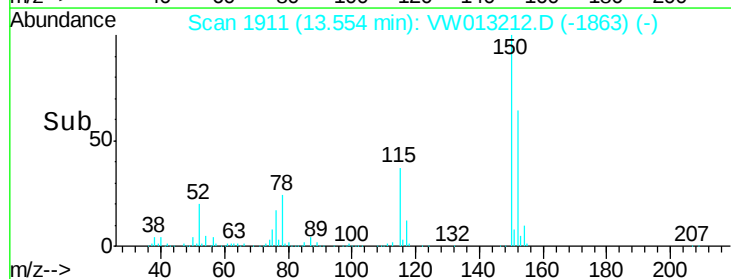
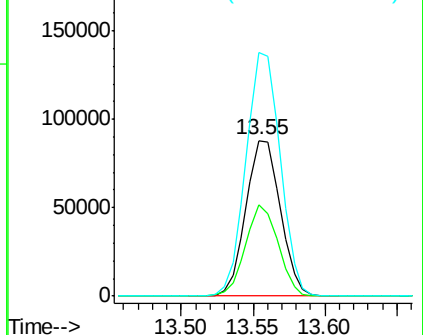


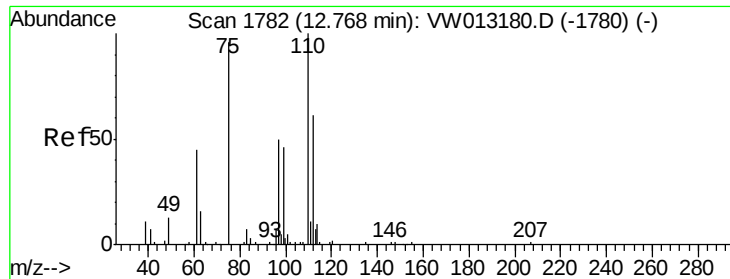
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.55 min Scan# 1911
Delta R.T. -0.01 min
Lab File: VW013212.D
Acq: 21 Sep 2019 04:48

Tgt Ion:152 Resp: 145960
Ion Ratio Lower Upper
152 100
115 55.7 27.3 81.9
150 156.1 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: 69.146 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW013212.D

Acq: 21 Sep 2019 04:48

Instrument :

MSVOA_W

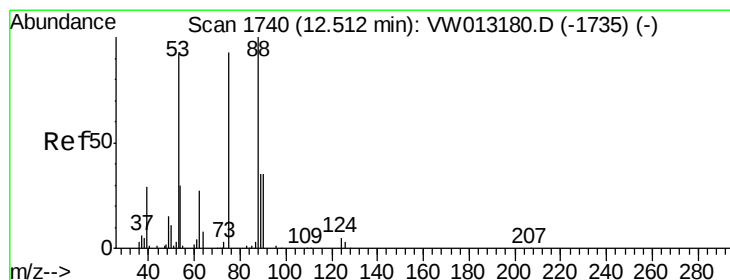
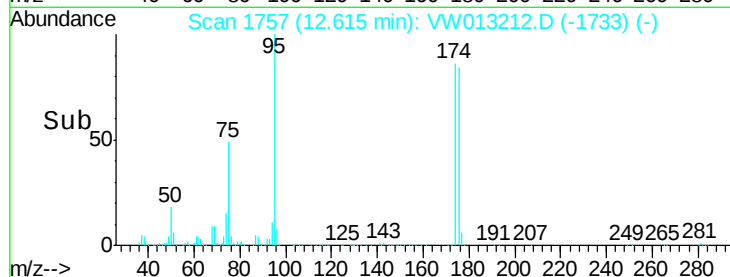
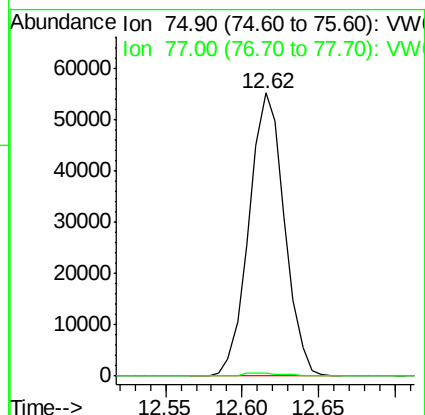
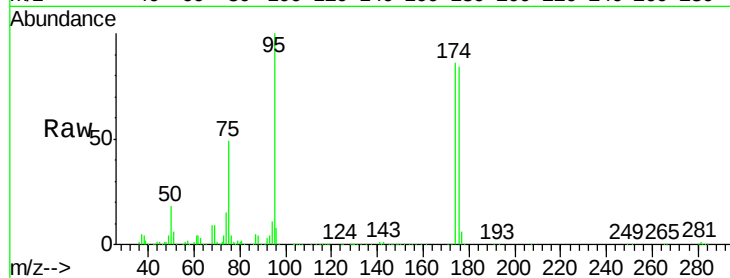
ClientSampled :

Tot Ion: 75 Resp: 89131

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 155.158 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW013212.D

Acq: 21 Sep 2019 04:48

Tgt Ion: 75 Resp: 89131

Ion Ratio Lower Upper

75 100

53 0.0 76.6 114.8#

89 0.1 33.5 50.3#

