

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW090919\
 Data File : VW012826.D
 Acq On : 09 Sep 2019 17:16
 Operator : SY/VA
 Sample : K4760-10RE
 Misc : 6.94G/5ML/MSVOA W/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 09 17:38:15 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	222840	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	325466	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	226997	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	67950	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	112990	45.38	ug/l	0.00
Spiked Amount			Recovery	=	90.76%	
35) Dibromofluoromethane	7.88	113	91926	47.51	ug/l	0.00
Spiked Amount			Recovery	=	95.02%	
50) Toluene-d8	10.32	98	365108	48.16	ug/l	0.00
Spiked Amount			Recovery	=	96.32%	
62) 4-Bromofluorobenzene	12.62	95	104211	37.87	ug/l	0.00
Spiked Amount			Recovery	=	75.74%	

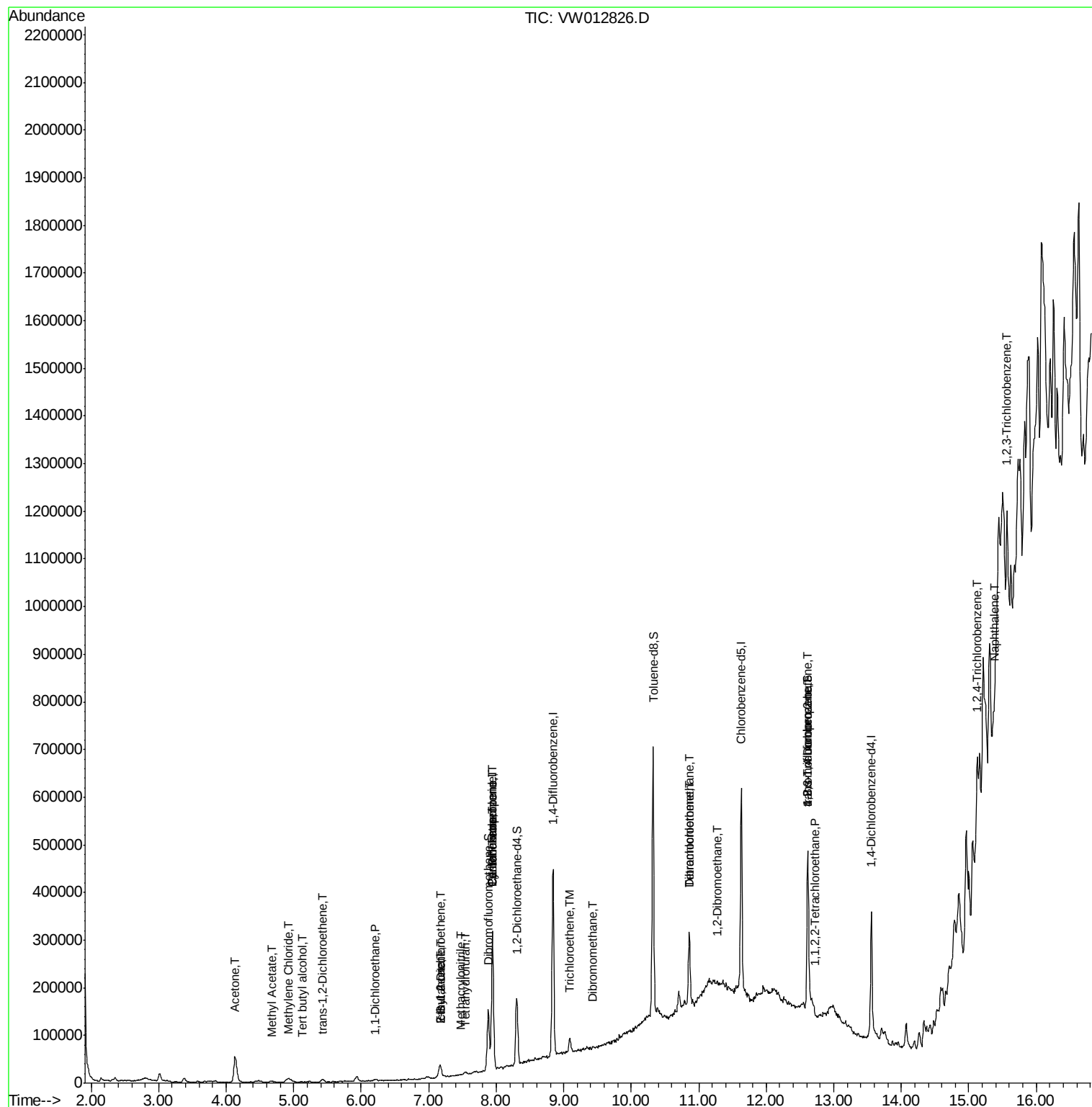
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.12	59	1135	5.958	ug/l #	92
16) Acetone	4.13	43	112211	165.311	ug/l	98
18) Methyl Acetate	4.67	43	4698	2.950	ug/l	98
20) Methylene Chloride	4.92	84	4394	2.069	ug/l #	80
21) trans-1,2-Dichloroethene	5.42	96	2138	1.139	ug/l #	81
24) 1,1-Dichloroethane	6.20	63	4379	1.077	ug/l #	93
25) 2-Butanone	7.18	43	13838	32.436	ug/l	99
27) cis-1,2-Dichloroethene	7.17	96	9825	4.513	ug/l	83
29) Tetrahydrofuran	7.53	42	4259	7.770	ug/l #	87
31) Cyclohexane	7.95	56	6121	1.672	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	16762	5.796	ug/l #	60
37) Ethyl Acetate	7.18	43	13838	7.506	ug/l #	1
38) Carbon Tetrachloride	7.95	117	21992	7.715	ug/l #	18
41) Methacrylonitrile	7.48	41	121	3.928	ug/l #	1
44) Trichloroethene	9.09	130	10376	5.017	ug/l	91
46) Dibromomethane	9.44	93	1247	1.183	ug/l #	32
60) Dibromochloromethane	10.86	129	29875	16.101	ug/l #	11
61) 1,2-Dibromoethane	11.26	107	3089	2.136	ug/l	90
64) Tetrachloroethene	10.86	164	37397	27.151	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.73	83	2084	2.129	ug/l #	53
76) 1,2,3-Trichloropropane	12.62	75	46590	67.053	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	46590	141.823	ug/l #	7
93) 1,2,4-Trichlorobenzene	15.13	180	7609	5.595	ug/l #	48
95) Naphthalene	15.37	128	1192	4.820	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.57	180	12792	10.656	ug/l #	20

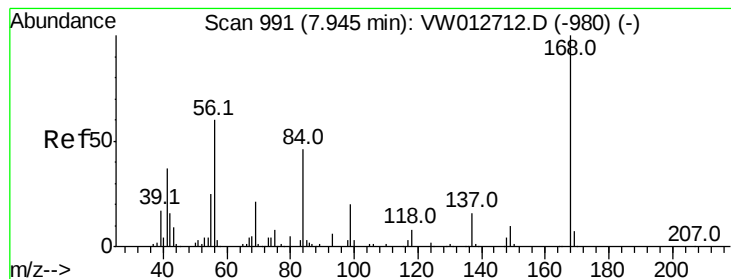
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW090919\
Data File : VW012826.D
Acq On : 09 Sep 2019 17:16
Operator : SY/VA
Sample : K4760-10RE
Misc : 6.94G/5ML/MSVOA W/SOIL
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampled :

Quant Time: Sep 09 17:38:15 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W090719S.M
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: VW012826.D

Acq: 09 Sep 2019 17:16

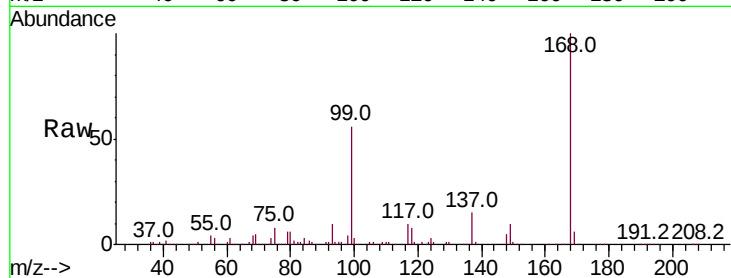
Instrument :
MSVOA_W
ClientSampled :

Tot Ion:168 Resp: 222840

Ion Ratio Lower Upper

168 100

99 55.8 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

100000

80000

60000

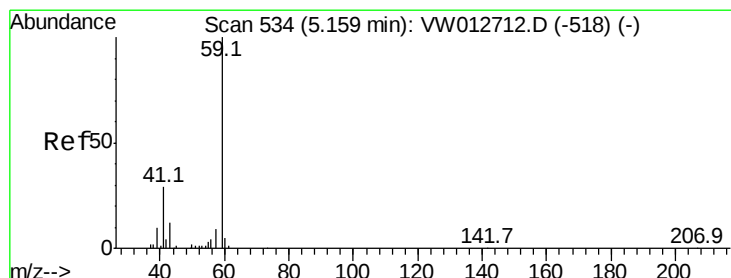
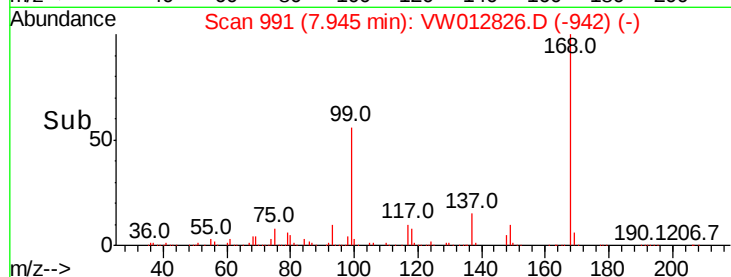
40000

20000

0

7.90 8.00

Time-->



#11

Tert butyl alcohol

Concen: 5.958 ug/l

RT: 5.12 min Scan# 528

Delta R.T. -0.04 min

Lab File: VW012826.D

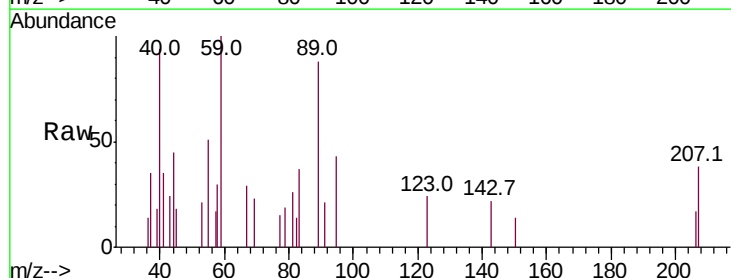
Acq: 09 Sep 2019 17:16

Tgt Ion: 59 Resp: 1135

Ion Ratio Lower Upper

59 100

57 7.1 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.12

500

400

300

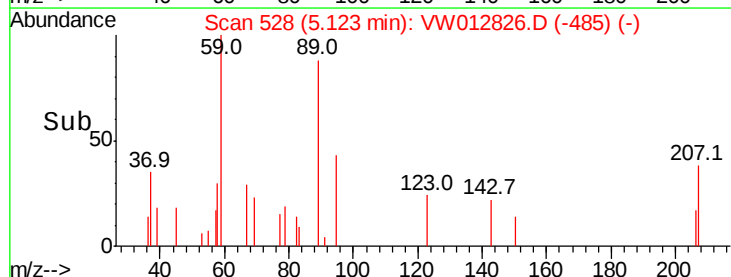
200

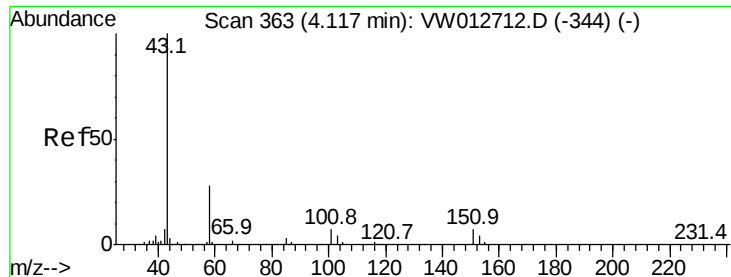
100

0

5.00 5.05 5.10 5.15

Time-->

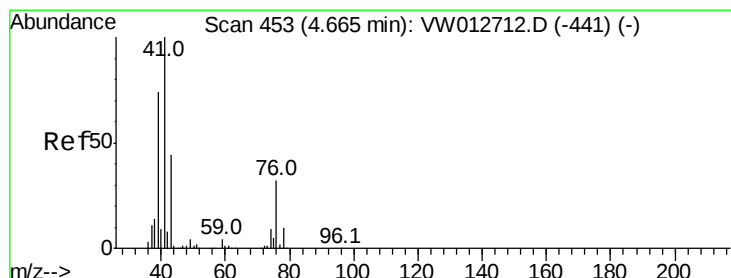
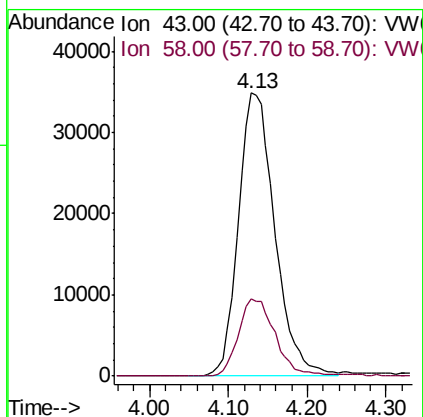
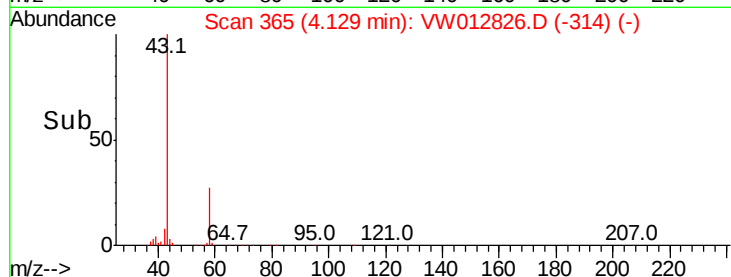
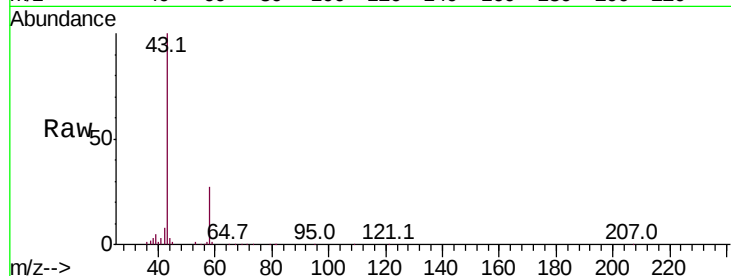




#16
Acetone
Concen: 165.311 ug/l
RT: 4.13 min Scan# 365
Delta R.T. 0.01 min
Lab File: VW012826.D
Acq: 09 Sep 2019 17:16

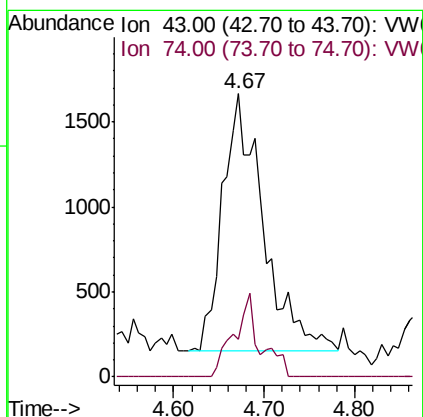
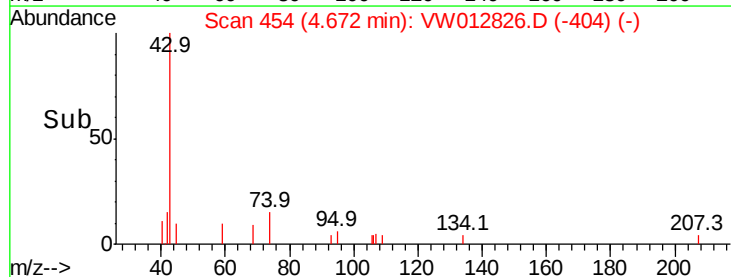
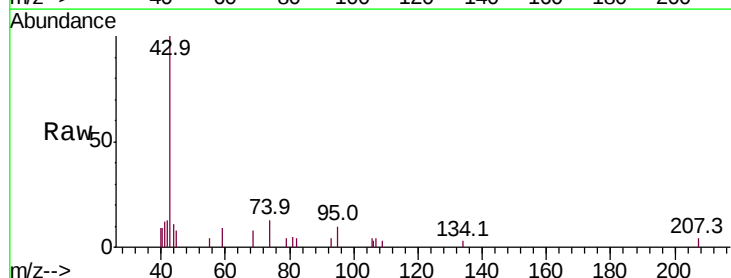
Instrument :
MSVOA_W
ClientSampleId :

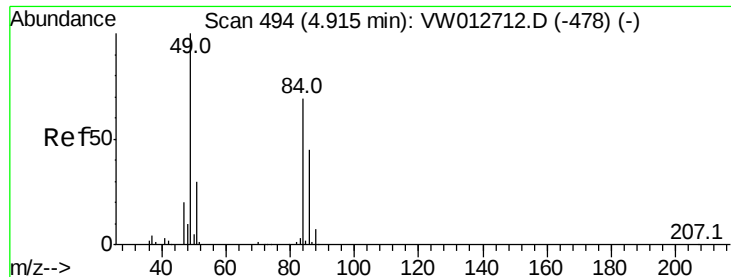
Tot Ion: 43 Resp: 112211
Ion Ratio Lower Upper
43 100
58 27.1 22.6 33.8



#18
Methyl Acetate
Concen: 2.950 ug/l
RT: 4.67 min Scan# 454
Delta R.T. 0.01 min
Lab File: VW012826.D
Acq: 09 Sep 2019 17:16

Tgt Ion: 43 Resp: 4698
Ion Ratio Lower Upper
43 100
74 20.8 15.8 23.6





#20

Methylene Chloride

Concen: 2.069 ug/l

RT: 4.92 min Scan# 494

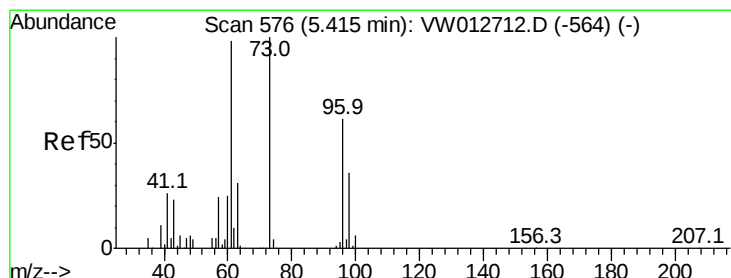
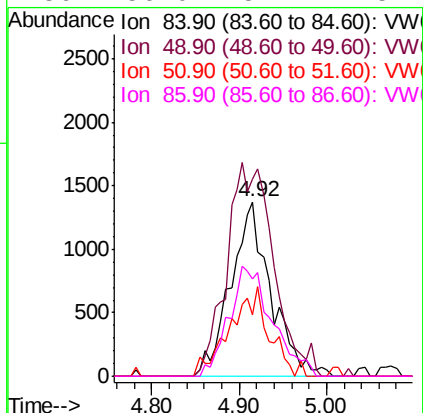
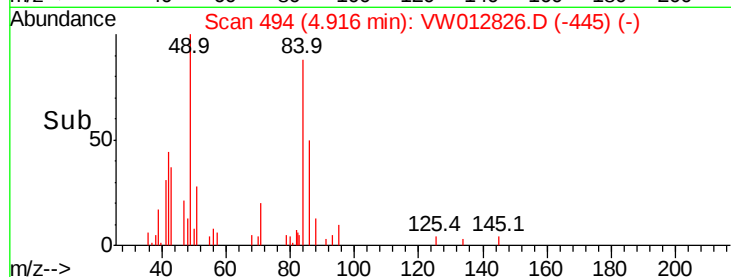
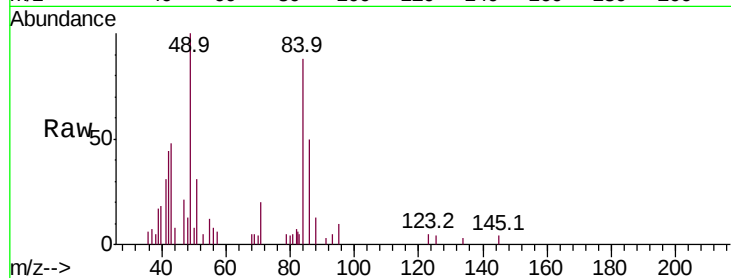
Delta R.T. 0.00 min

Lab File: VW012826.D

Acq: 09 Sep 2019 17:16

Instrument :
MSVOA_W
ClientSampled :

Tot Ion:	84	Resp:	4394
Ion	Ratio	Lower	Upper
84	100		
49	113.0	115.4	173.0#
51	35.4	34.9	52.3
86	56.0	52.2	78.4



#21

trans-1,2-Dichloroethene

Concen: 1.139 ug/l

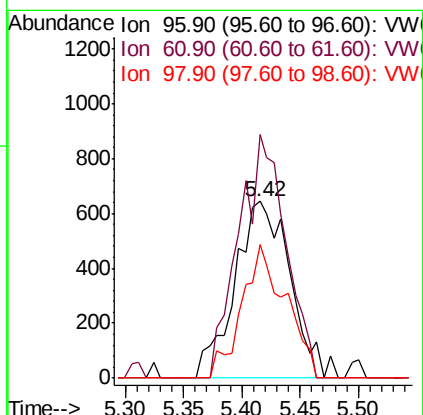
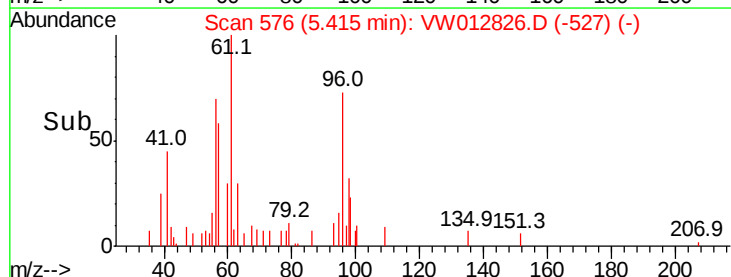
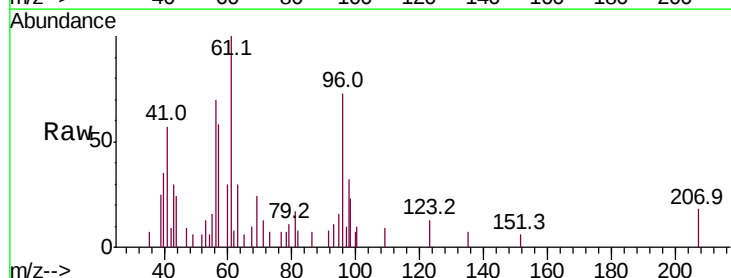
RT: 5.42 min Scan# 576

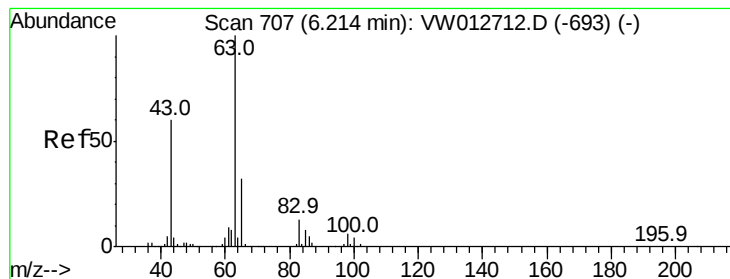
Delta R.T. 0.00 min

Lab File: VW012826.D

Acq: 09 Sep 2019 17:16

Tgt Ion:	96	Resp:	2138
Ion	Ratio	Lower	Upper
96	100		
61	137.7	129.2	193.8
98	75.7	48.0	72.0#





#24

1,1-Dichloroethane

Concen: 1.077 ug/l

RT: 6.20 min Scan# 705

Delta R.T. -0.01 min

Lab File: VW012826.D

Acq: 09 Sep 2019 17:16

Instrument :

MSVOA_W

ClientSampleId :

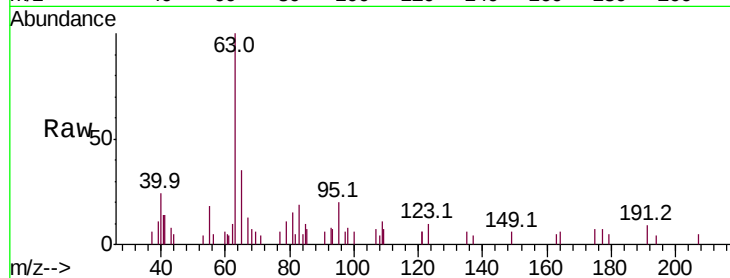
Tot Ion: 63 Resp: 4379

Ion Ratio Lower Upper

63 100

98 8.3 3.1 9.3

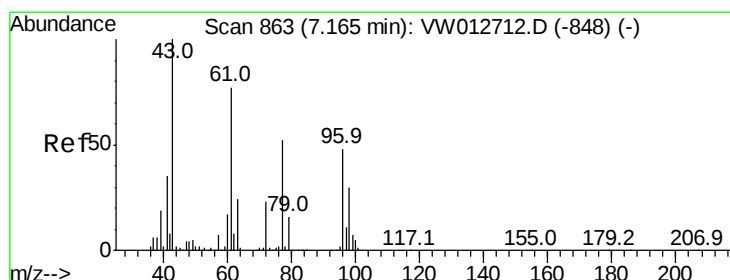
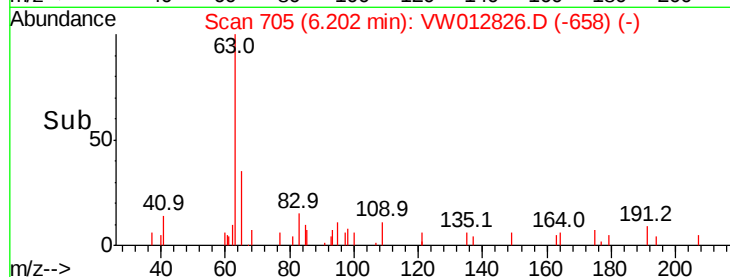
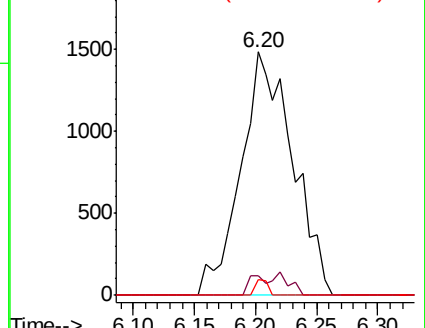
100 6.2 1.8 5.5#



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: 32.436 ug/l

RT: 7.18 min Scan# 866

Delta R.T. 0.02 min

Lab File: VW012826.D

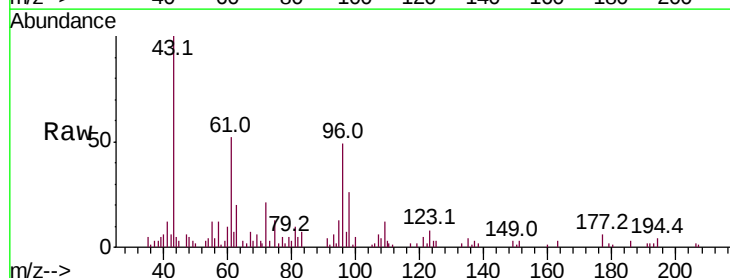
Acq: 09 Sep 2019 17:16

Tgt Ion: 43 Resp: 13838

Ion Ratio Lower Upper

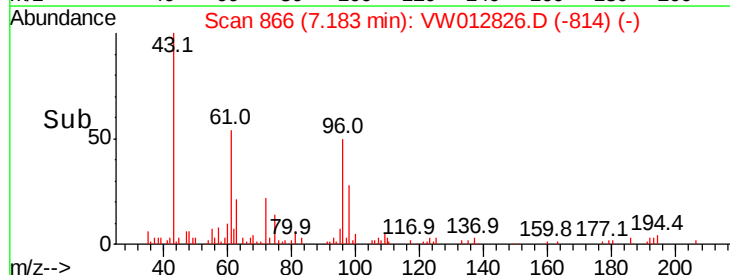
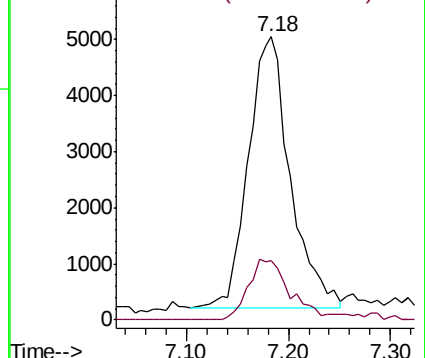
43 100

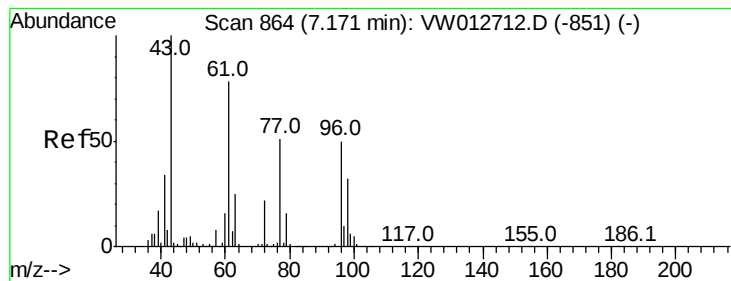
72 22.0 18.0 27.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



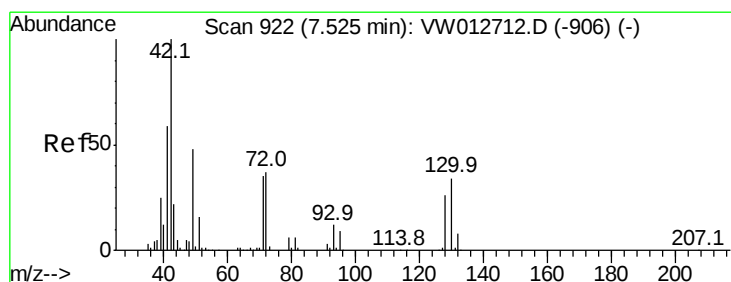
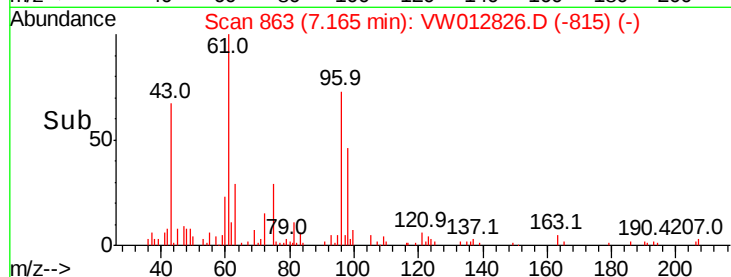
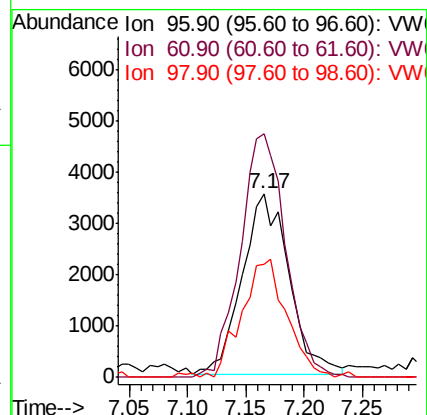
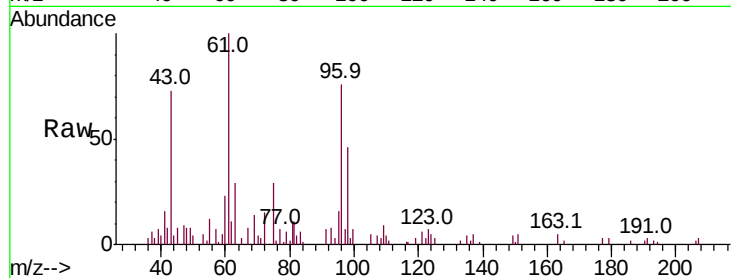


#27

cis-1,2-Dichloroethene
 Concen: 4.513 ug/l
 RT: 7.17 min Scan# 863
 Delta R.T. -0.01 min
 Lab File: VW012826.D
 Acq: 09 Sep 2019 17:16

Instrument :
 MSVOA_W
 ClientSampled :

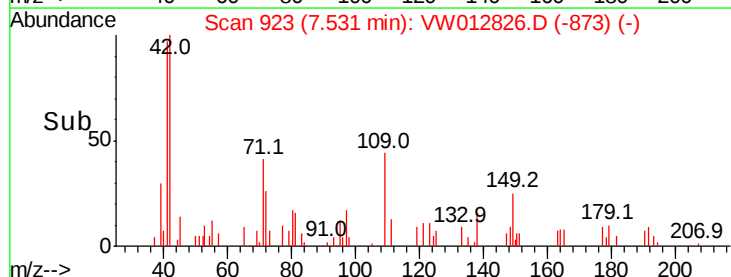
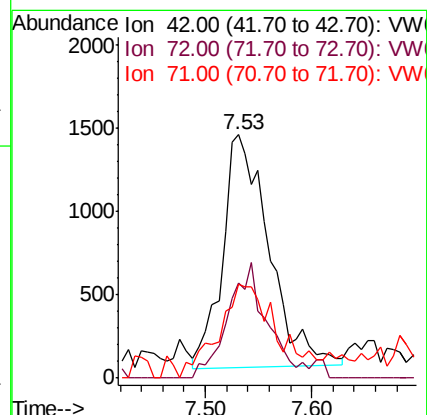
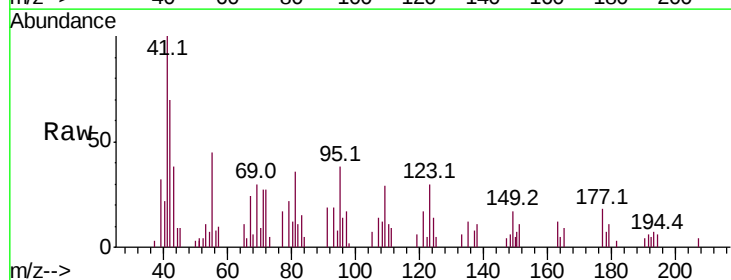
Tot Ion	96	Resp	9825
Ion	Ratio	Lower	Upper
96	100		
61	131.7	0.0	325.8
98	62.7	0.0	127.0

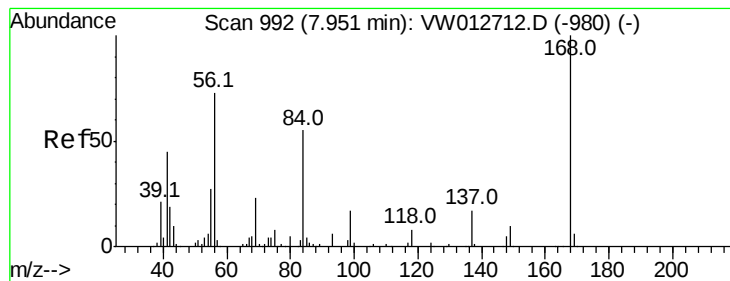


#29

Tetrahydrofuran
 Concen: 7.770 ug/l
 RT: 7.53 min Scan# 923
 Delta R.T. 0.01 min
 Lab File: VW012826.D
 Acq: 09 Sep 2019 17:16

Tgt Ion	42	Resp	4259
Ion	Ratio	Lower	Upper
42	100		
72	40.8	28.4	42.6
71	43.8	27.1	40.7#





#31

Cyclohexane

Concen: 1.672 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW012826.D

Acq: 09 Sep 2019 17:16

Instrument :

MSVOA_W

ClientSampleId :

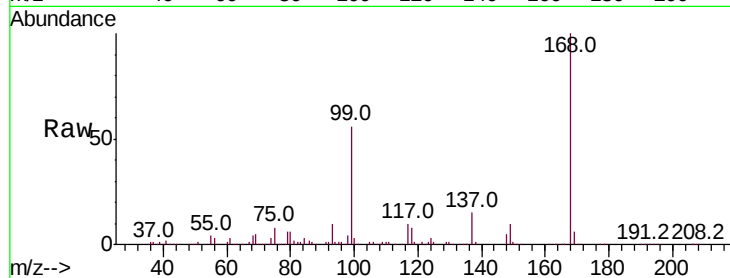
Tot Ion: 56 Resp: 6121

Ion Ratio Lower Upper

56 100

69 147.3 25.7 38.5#

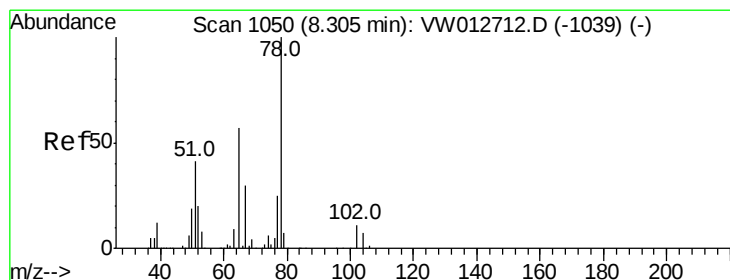
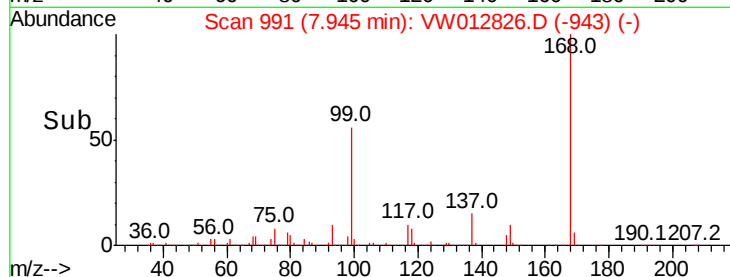
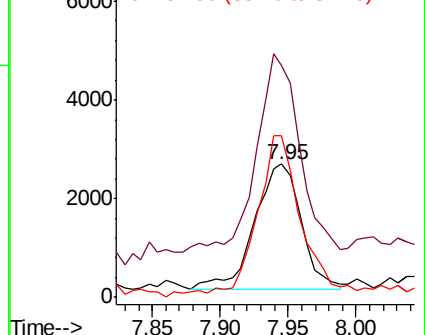
84 124.3 60.4 90.6#



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: 45.380 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW012826.D

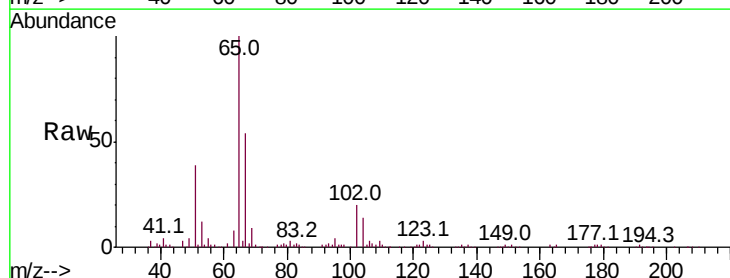
Acq: 09 Sep 2019 17:16

Tgt Ion: 65 Resp: 112990

Ion Ratio Lower Upper

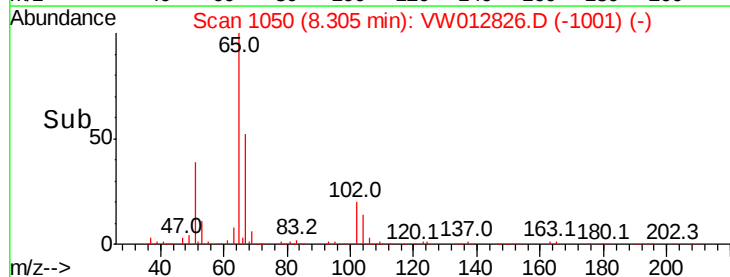
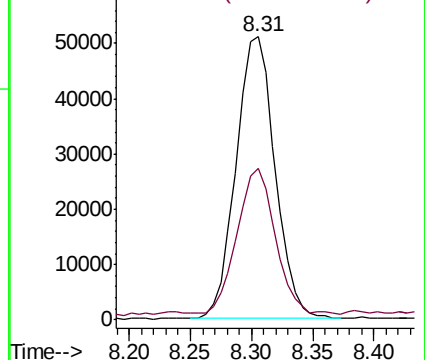
65 100

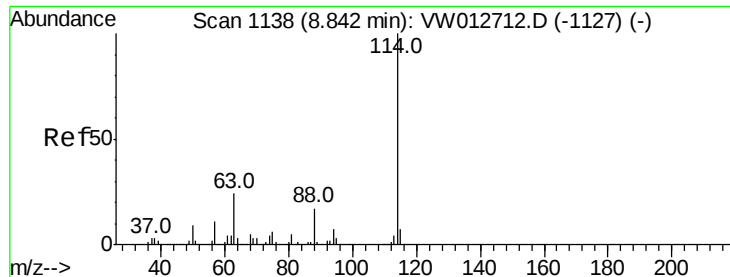
67 51.0 0.0 101.8



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW

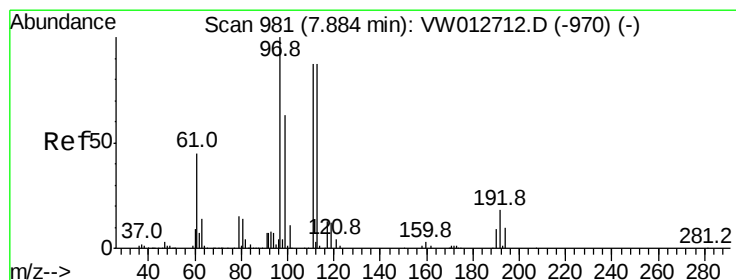
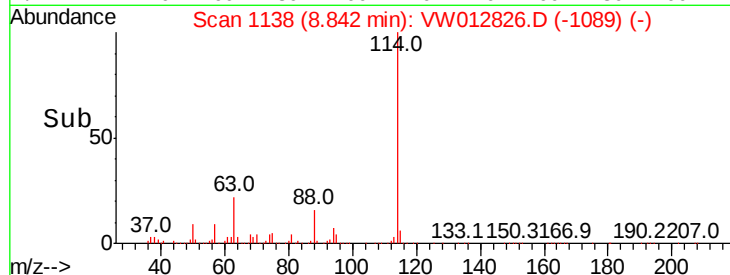
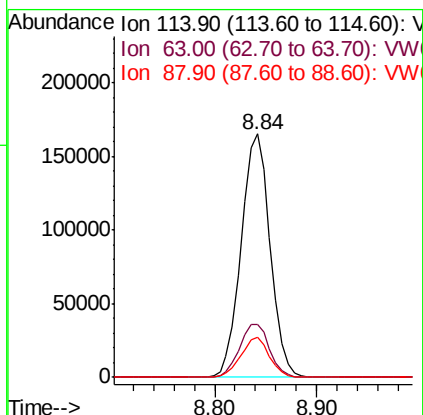
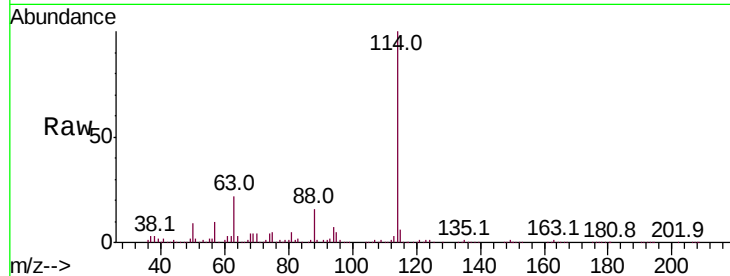




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.84 min Scan# 1138
Delta R.T. 0.00 min
Lab File: VW012826.D
Acq: 09 Sep 2019 17:16

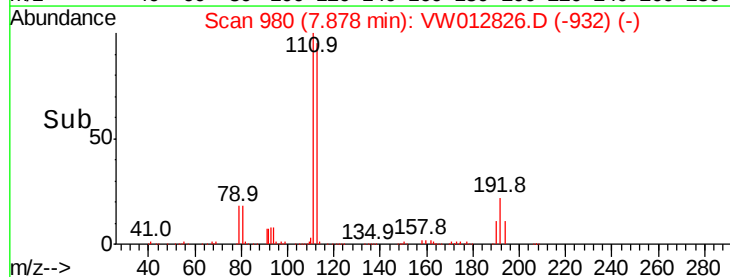
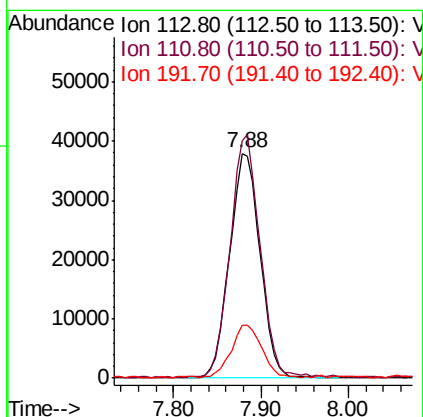
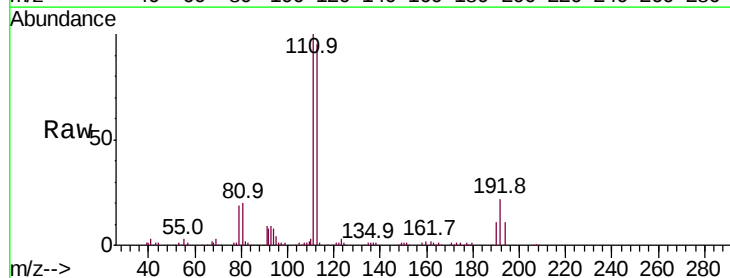
Instrument :
MSVOA_W
ClientSampleId :

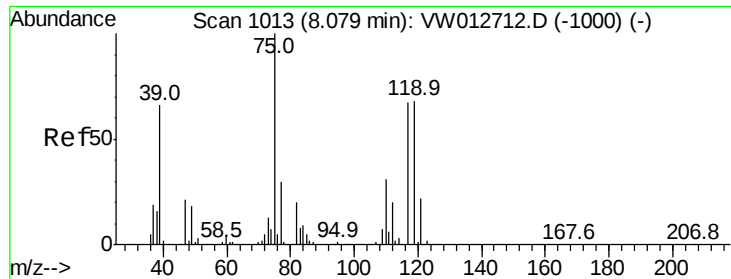
Tot Ion:114 Resp: 325466
Ion Ratio Lower Upper
114 100
63 21.7 0.0 47.2
88 16.2 0.0 34.0



#35
Dibromofluoromethane
Concen: 47.507 ug/l
RT: 7.88 min Scan# 980
Delta R.T. -0.01 min
Lab File: VW012826.D
Acq: 09 Sep 2019 17:16

Tgt Ion:113 Resp: 91926
Ion Ratio Lower Upper
113 100
111 105.7 80.2 120.4
192 23.6 17.3 25.9

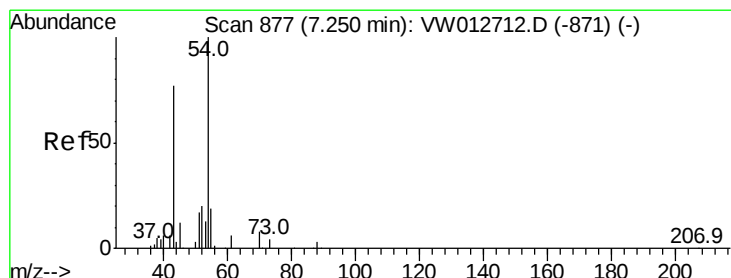
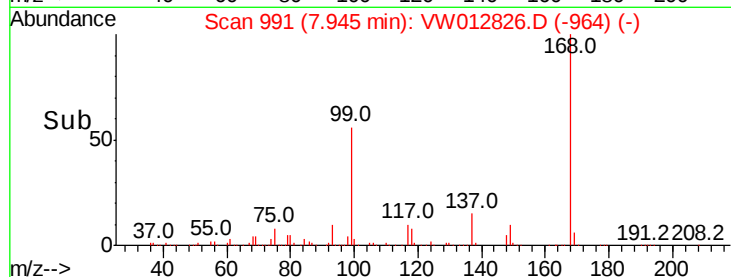
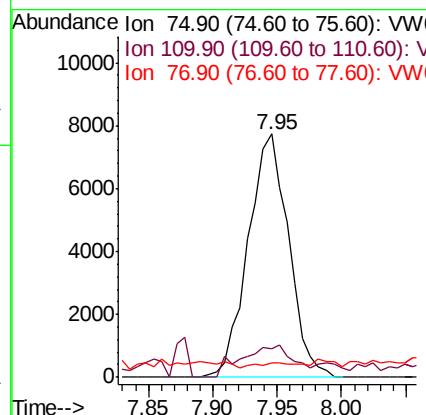
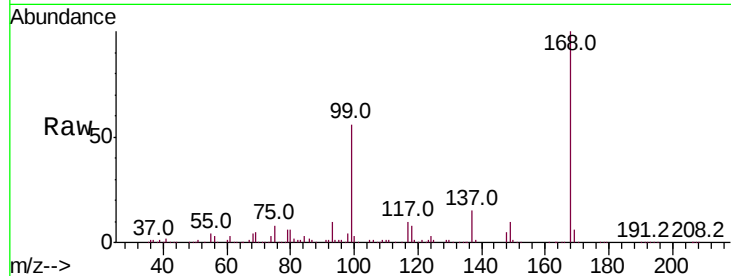




#36
 1,1-Dichloropropene
 Concen: 5.796 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW012826.D
 Acq: 09 Sep 2019 17:16

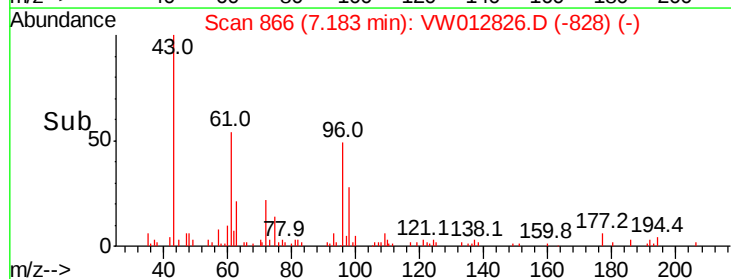
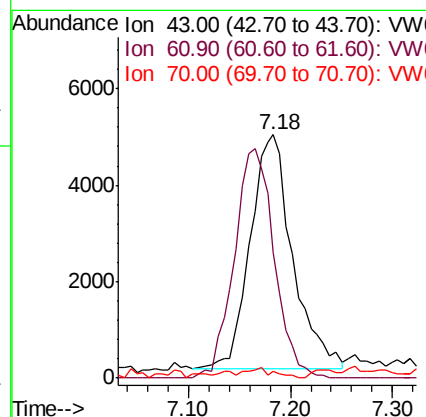
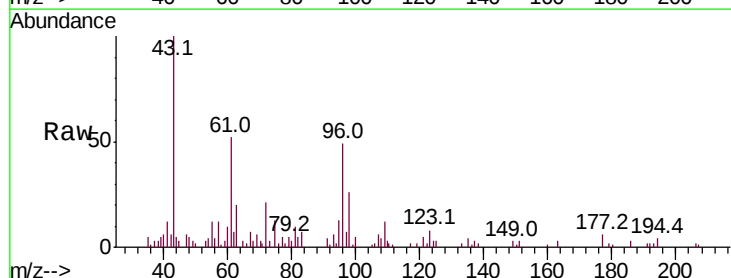
Instrument :
 MSVOA_W
 ClientSampled :

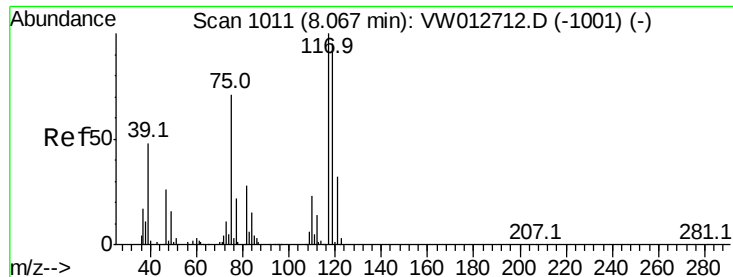
Tot Ion: 75 Resp: 16762
 Ion Ratio Lower Upper
 75 100
 110 17.2 15.9 47.7
 77 1.9 25.0 37.4#



#37
 Ethyl Acetate
 Concen: 7.506 ug/l
 RT: 7.18 min Scan# 866
 Delta R.T. -0.07 min
 Lab File: VW012826.D
 Acq: 09 Sep 2019 17:16

Tgt Ion: 43 Resp: 13838
 Ion Ratio Lower Upper
 43 100
 61 93.5 9.5 14.3#
 70 2.9 7.0 10.6#

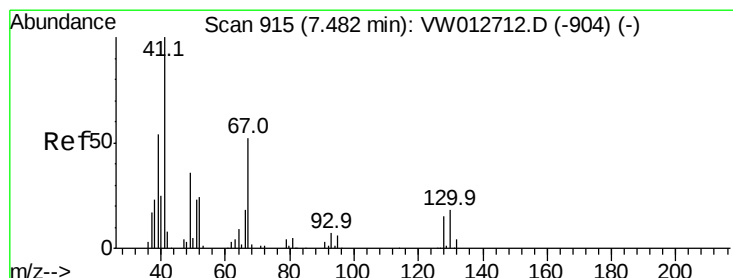
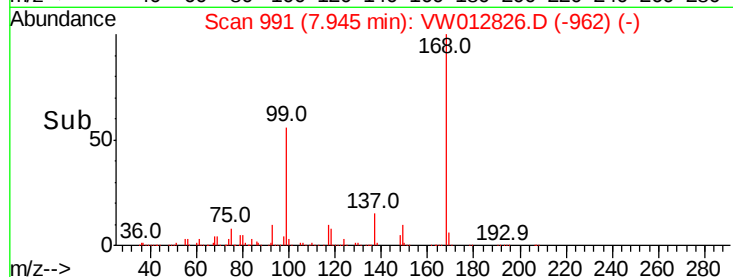
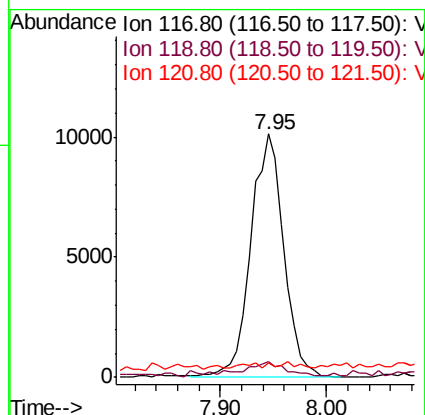
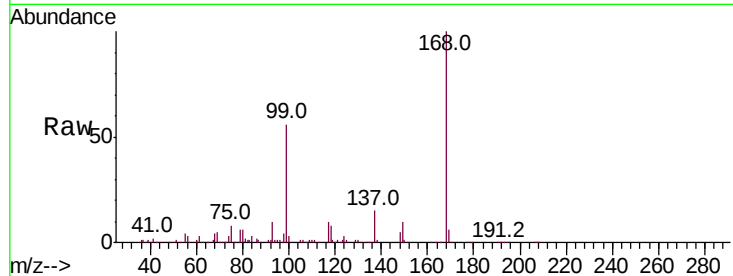




#38
Carbon Tetrachloride
Concen: 7.715 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW012826.D
Acq: 09 Sep 2019 17:16

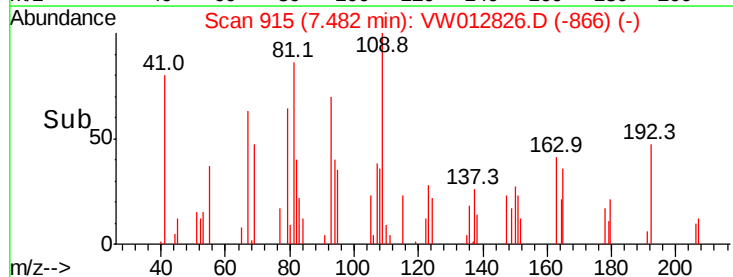
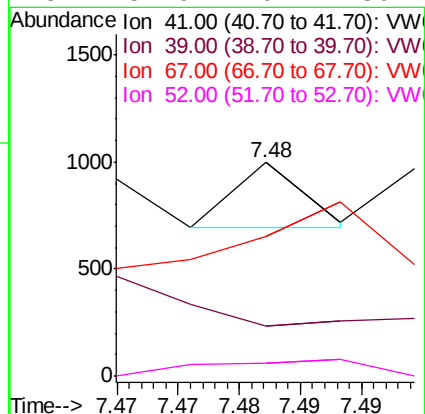
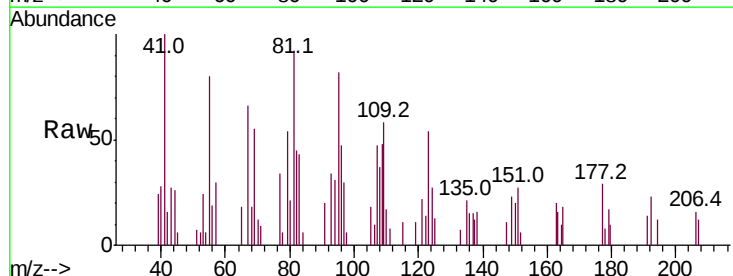
Instrument :
MSVOA_W
ClientSampled :

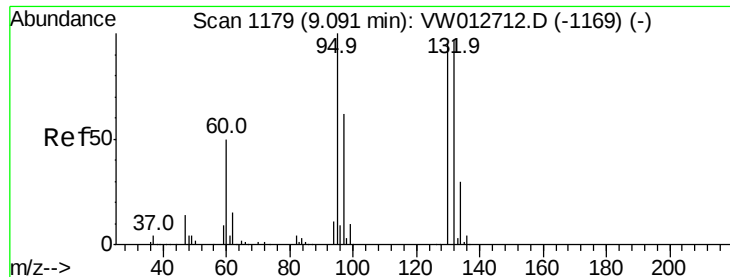
Tot Ion:117 Resp: 21992
Ion Ratio Lower Upper
117 100
119 5.7 76.2 114.2#
121 1.9 25.4 38.2#



#41
Methacrylonitrile
Concen: 3.928 ug/l
RT: 7.48 min Scan# 915
Delta R.T. 0.00 min
Lab File: VW012826.D
Acq: 09 Sep 2019 17:16

Tgt Ion: 41 Resp: 121
Ion Ratio Lower Upper
41 100
39 0.0 47.5 71.3#
67 313.2 45.1 67.7#
52 57.9 20.2 30.2#





#44

Trichloroethene

Concen: 5.017 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW012826.D

Acq: 09 Sep 2019 17:16

Instrument :

MSVOA_W

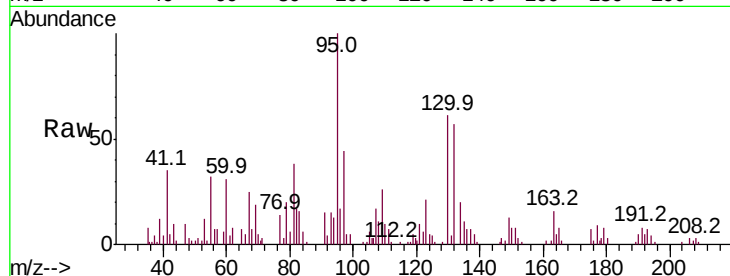
ClientSampled :

Tot Ion:130 Resp: 10376

Ion Ratio Lower Upper

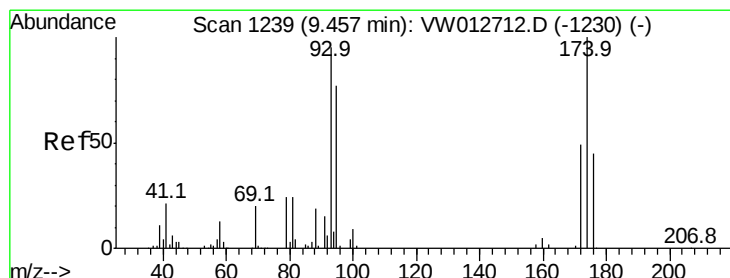
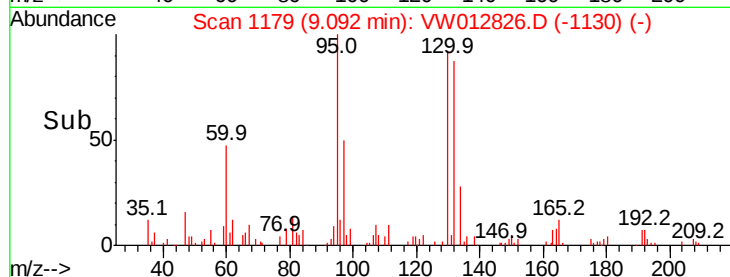
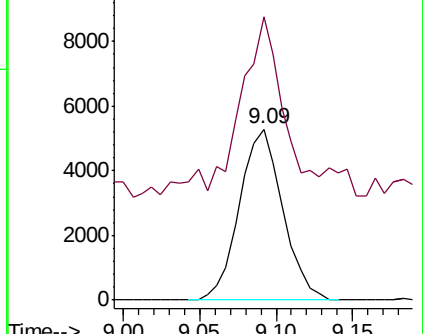
130 100

95 96.1 0.0 210.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VW



#46

Dibromomethane

Concen: 1.183 ug/l

RT: 9.44 min Scan# 1236

Delta R.T. -0.02 min

Lab File: VW012826.D

Acq: 09 Sep 2019 17:16

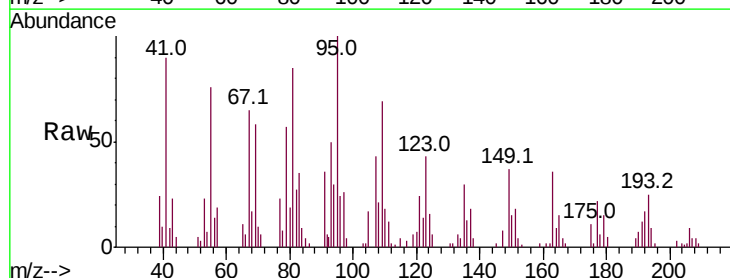
Tgt Ion: 93 Resp: 1247

Ion Ratio Lower Upper

93 100

95 60.1 65.2 97.8#

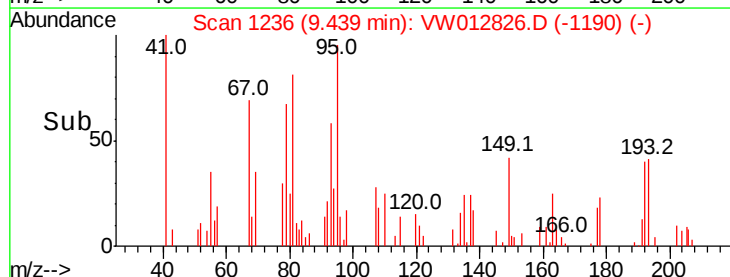
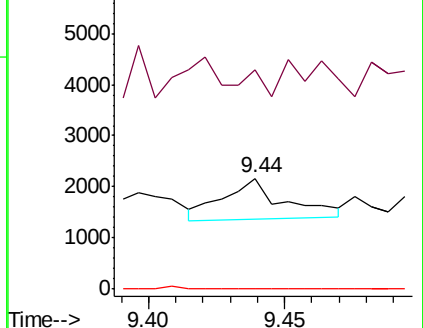
174 0.0 84.2 126.4#

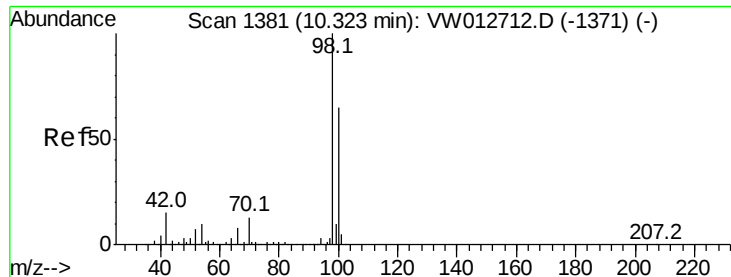


Abundance Ion 92.80 (92.50 to 93.50): VW

Ion 94.80 (94.50 to 95.50): VW

Ion 173.70 (173.40 to 174.40): V

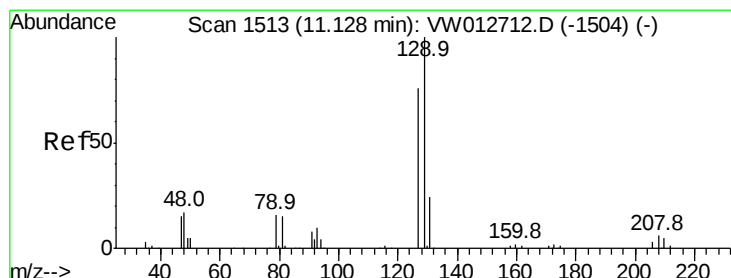
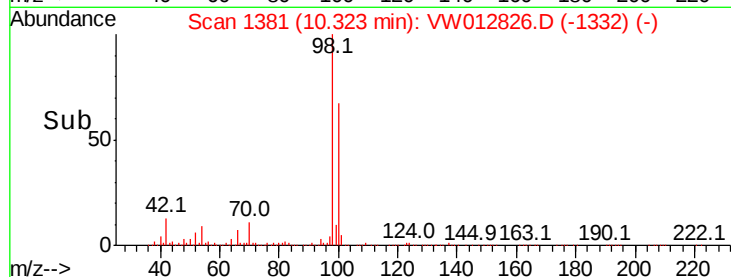
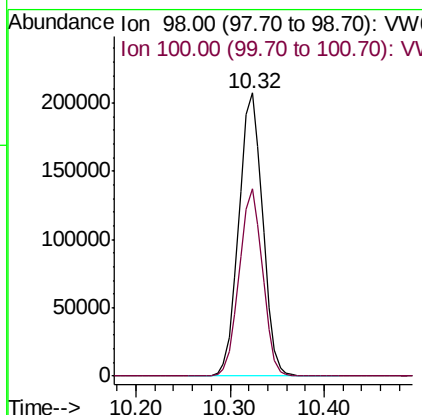
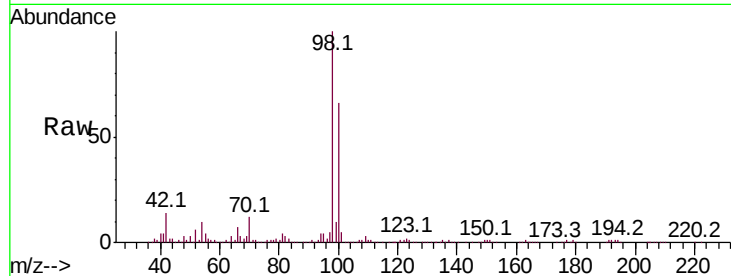




#50
Toluene-d8
Concen: 48.162 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW012826.D
Acq: 09 Sep 2019 17:16

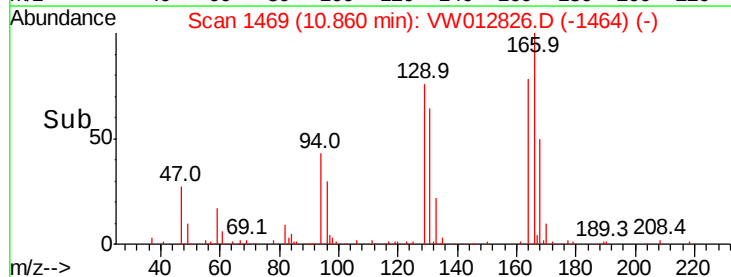
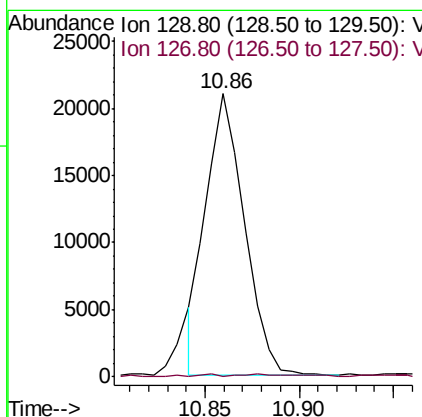
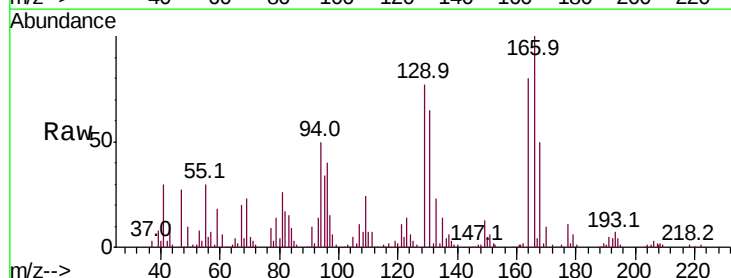
Instrument :
MSVOA_W
ClientSampleId :

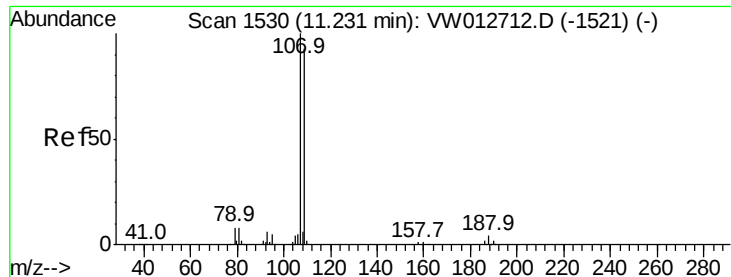
Tot Ion: 98 Resp: 365108
Ion Ratio Lower Upper
98 100
100 65.0 52.2 78.4



#60
Dibromochloromethane
Concen: 16.101 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. -0.27 min
Lab File: VW012826.D
Acq: 09 Sep 2019 17:16

Tgt Ion:129 Resp: 29875
Ion Ratio Lower Upper
129 100
127 0.4 38.6 115.8#





#61

1,2-Dibromoethane

Concen: 2.136 ug/l

RT: 11.26 min Scan# 1535

Delta R.T. 0.03 min

Lab File: VW012826.D

Acq: 09 Sep 2019 17:16

Instrument :

MSVOA_W

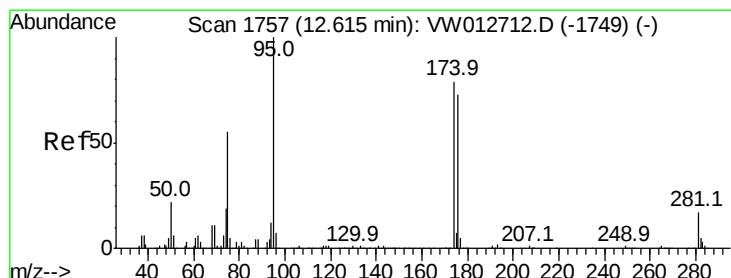
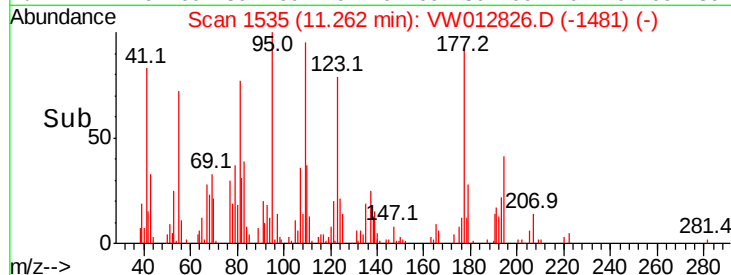
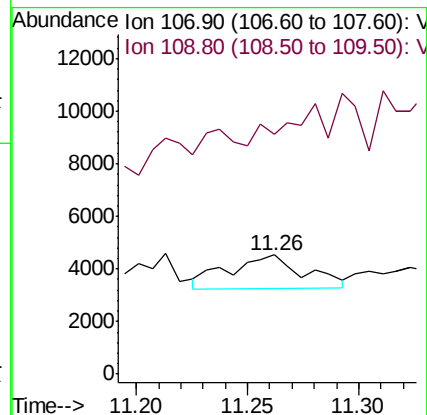
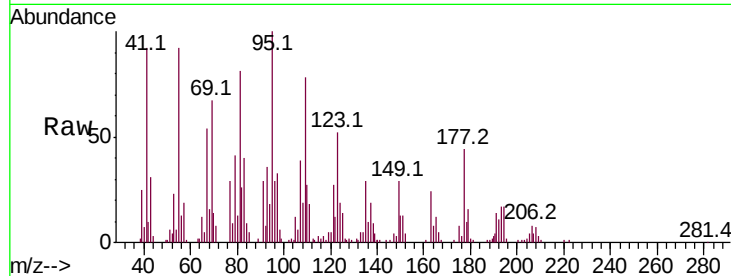
ClientSampleId :

Tot Ion:107 Resp: 3089

Ion Ratio Lower Upper

107 100

109 103.6 75.0 112.6



#62

4-Bromofluorobenzene

Concen: 37.866 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VW012826.D

Acq: 09 Sep 2019 17:16

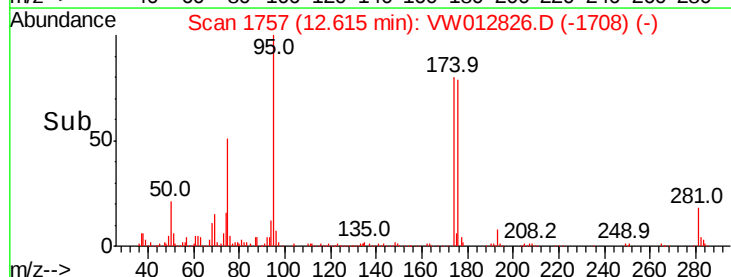
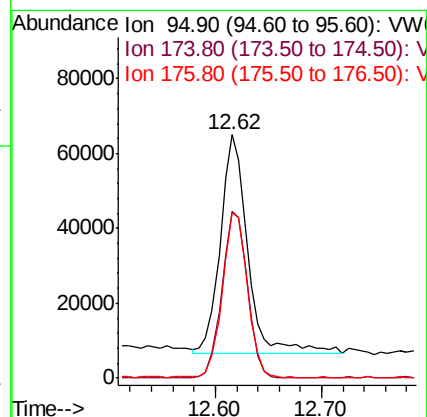
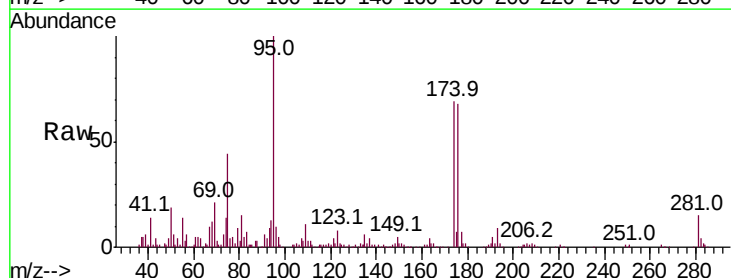
Tgt Ion: 95 Resp: 104211

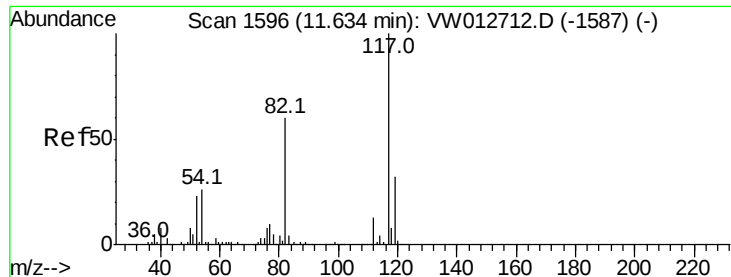
Ion Ratio Lower Upper

95 100

174 71.1 0.0 161.0

176 70.6 0.0 156.4

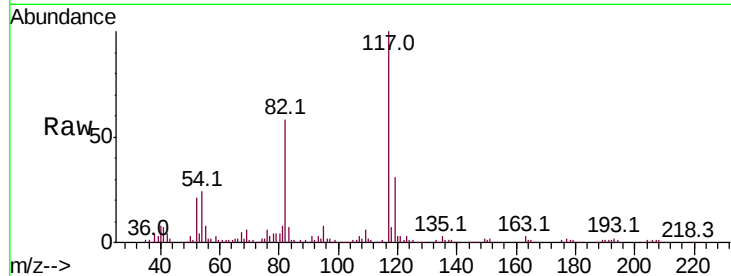




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW012826.D
Acq: 09 Sep 2019 17:16

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.4	48.2	72.4
119	30.0	25.8	38.6

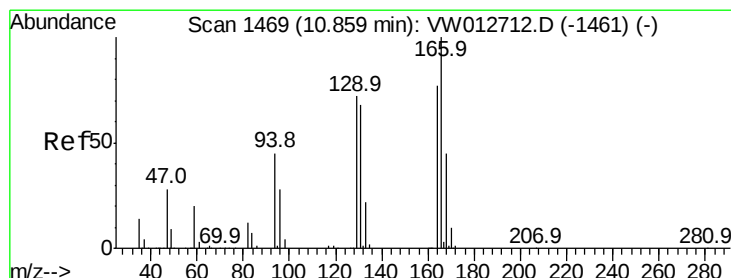
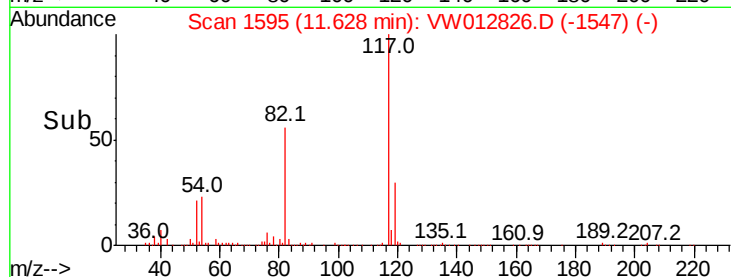
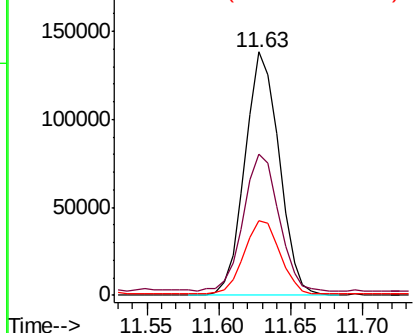


Abundance

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



#64
Tetrachloroethene
Concen: 27.151 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VW012826.D
Acq: 09 Sep 2019 17:16

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.4	103.6	155.4
129	100.1	74.6	112.0
131	84.0	70.6	106.0

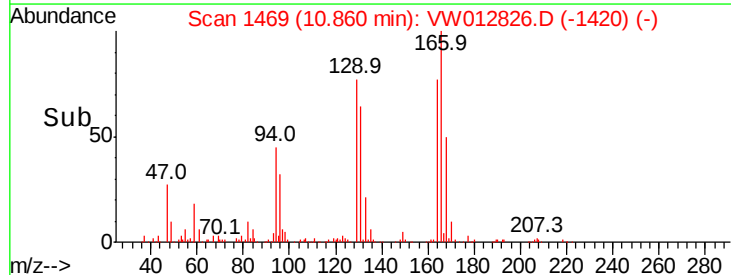
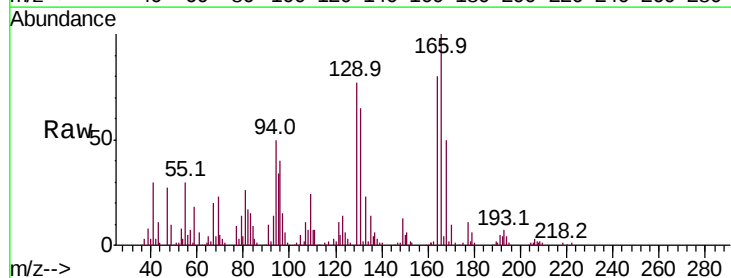
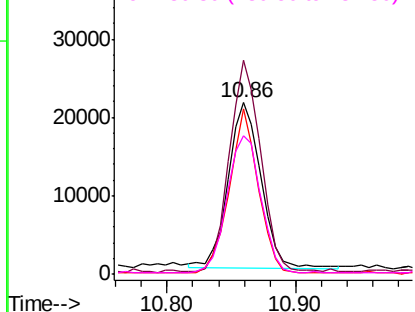
Abundance

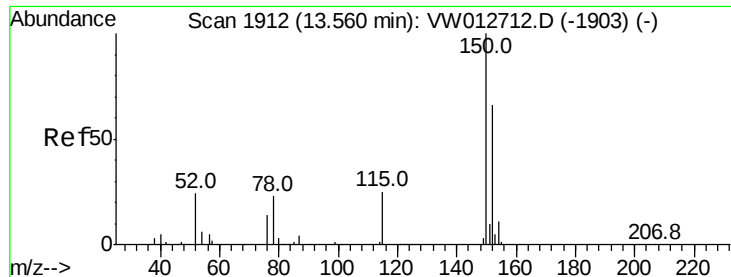
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): 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: VW012826.D

Acq: 09 Sep 2019 17:16

Instrument :

MSVOA_W

ClientSampleId :

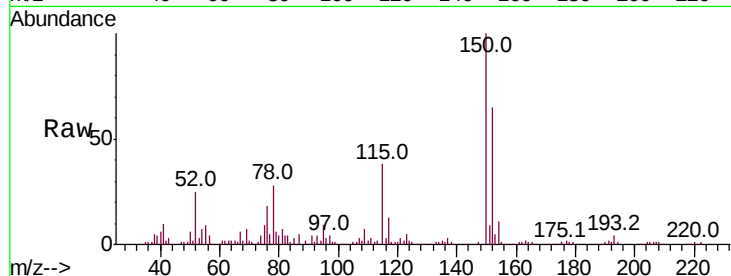
Tot Ion:152 Resp: 67950

Ion Ratio Lower Upper

152 100

115 57.3 30.0 90.1

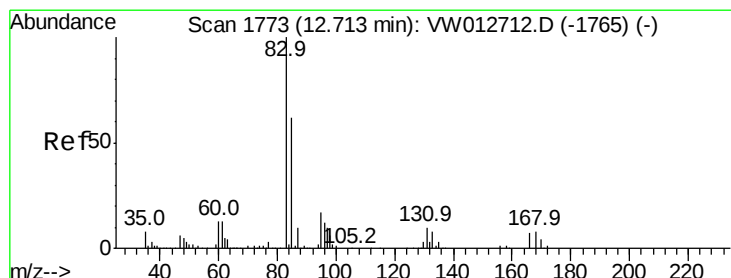
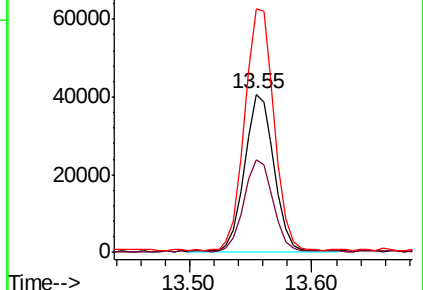
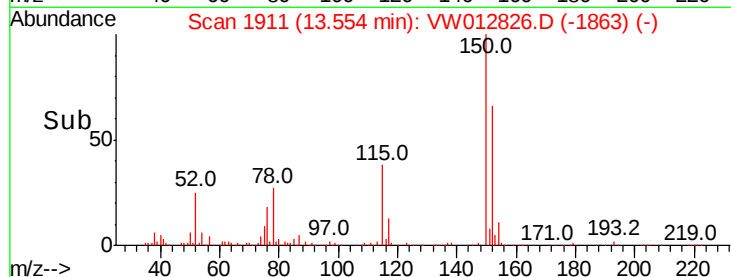
150 152.7 0.0 349.0



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



#75

1,1,2,2-Tetrachloroethane

Concen: 2.129 ug/l

RT: 12.73 min Scan# 1776

Delta R.T. 0.02 min

Lab File: VW012826.D

Acq: 09 Sep 2019 17:16

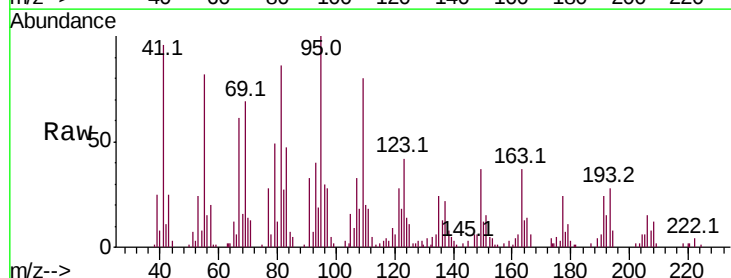
Tgt Ion: 83 Resp: 2084

Ion Ratio Lower Upper

83 100

131 16.8 5.1 15.4#

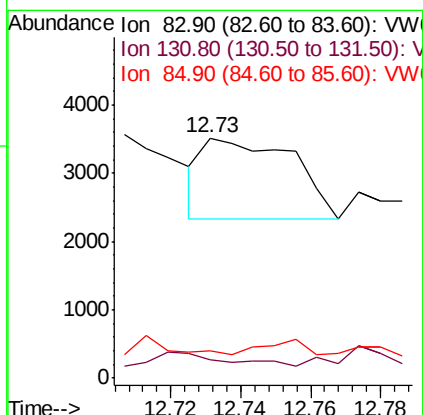
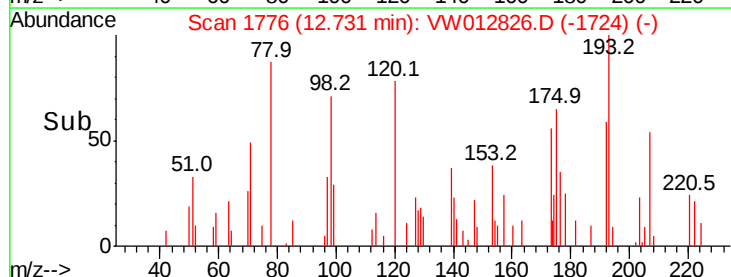
85 22.4 31.4 94.2#

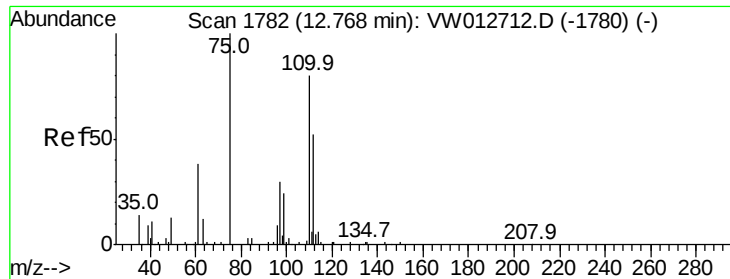


Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW

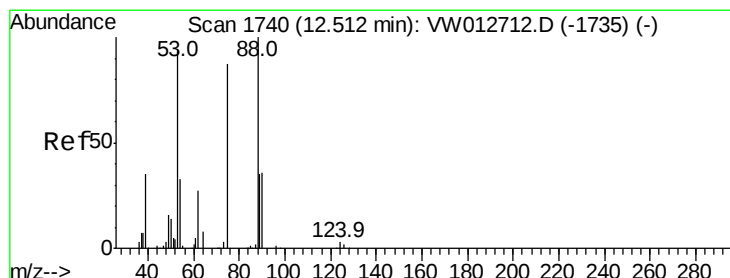
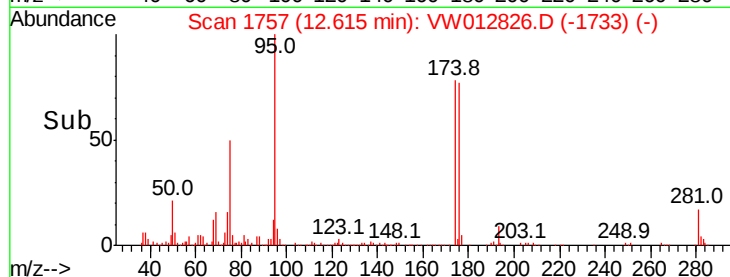
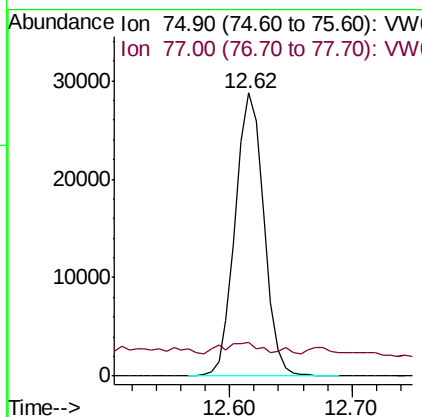
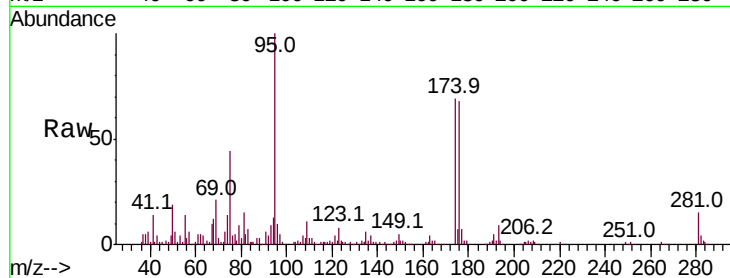




#76
 1,2,3-Trichloropropane
 Concen: 67.053 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.15 min
 Lab File: VW012826.D
 Acq: 09 Sep 2019 17:16

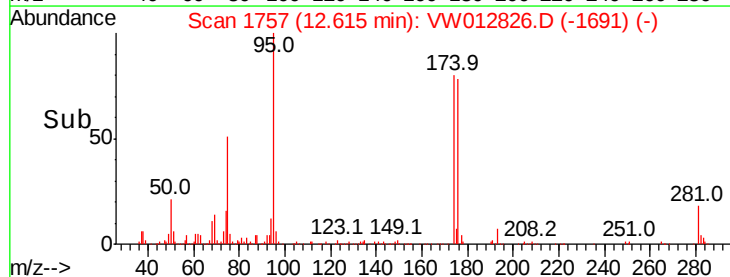
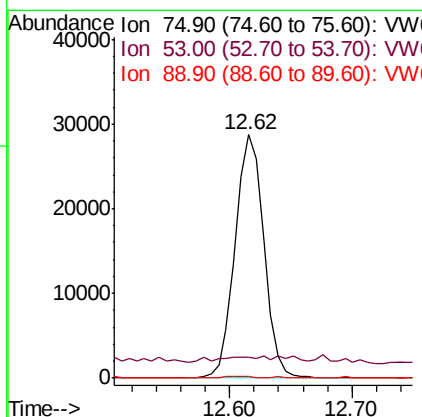
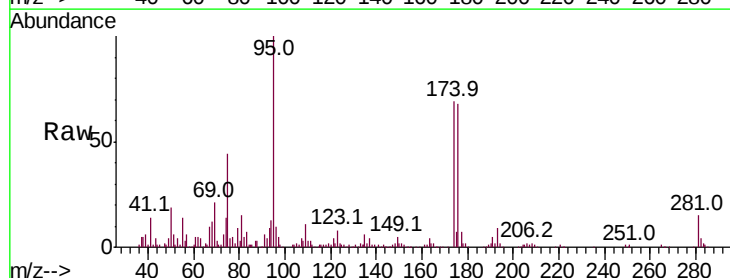
Instrument :
 MSVOA_W
 ClientSampleId :

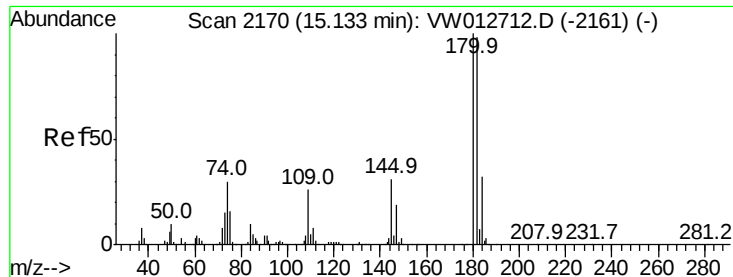
Tot Ion: 75 Resp: 46590
 Ion Ratio Lower Upper
 75 100
 77 5.0 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 141.823 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. 0.10 min
 Lab File: VW012826.D
 Acq: 09 Sep 2019 17:16

Tgt Ion: 75 Resp: 46590
 Ion Ratio Lower Upper
 75 100
 53 0.9 87.6 131.4#
 89 0.7 35.5 53.3#

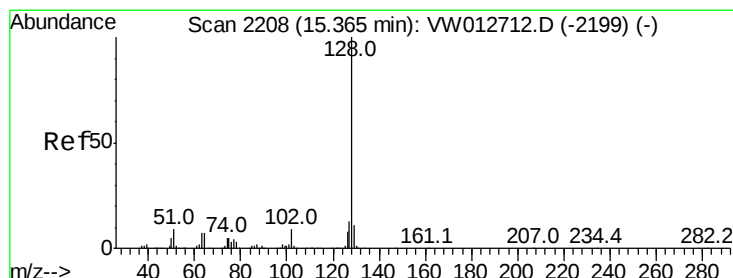
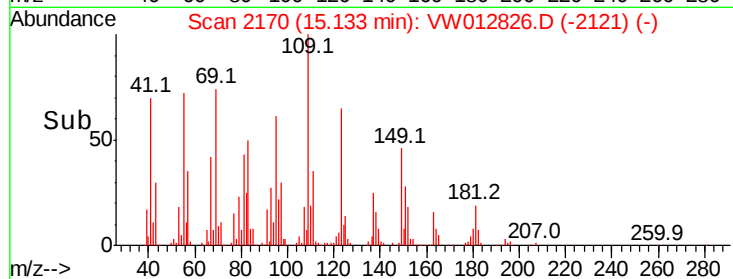
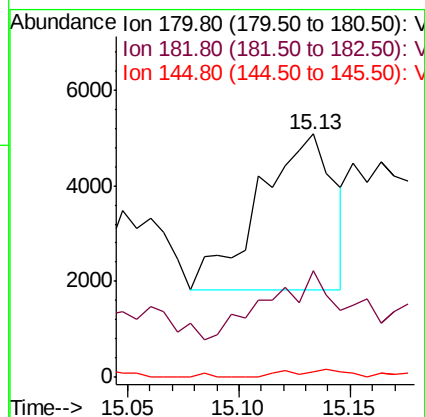
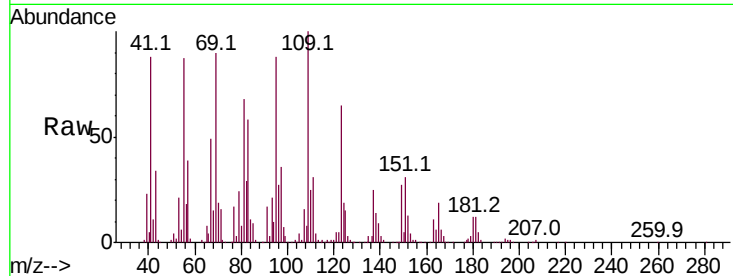




#93
 1,2,4-Trichlorobenzene
 Concen: 5.595 ug/l
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW012826.D
 Acq: 09 Sep 2019 17:16

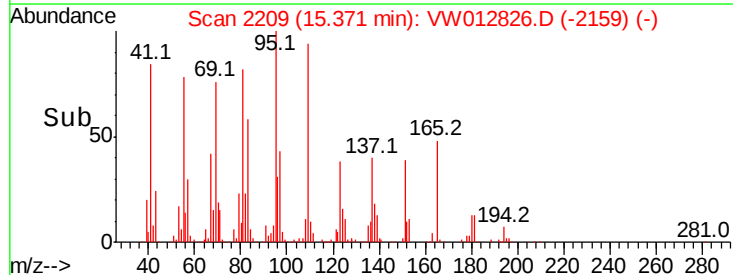
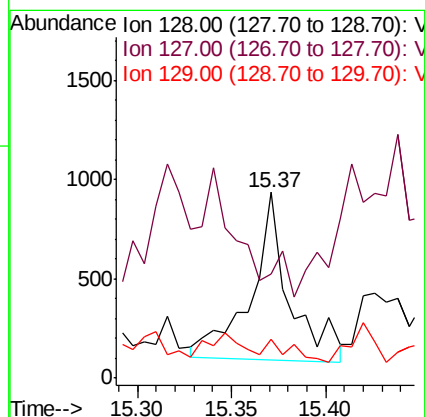
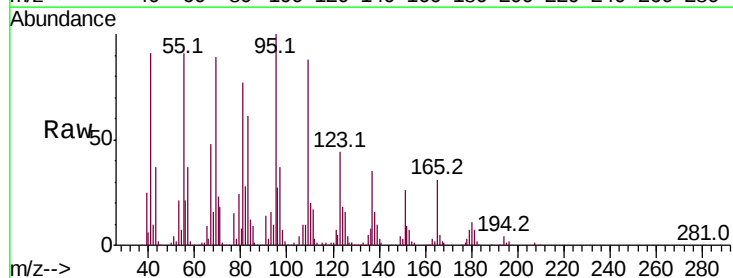
Instrument :
 MSVOA_W
 ClientSampled :

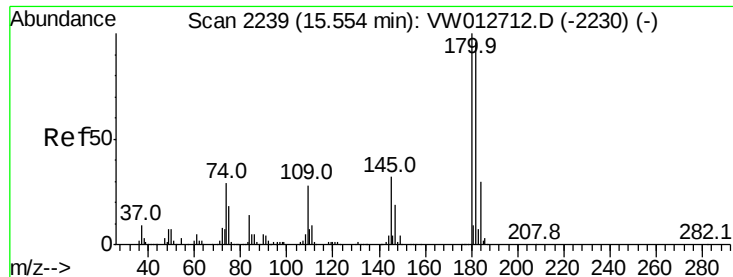
Tot Ion:180 Resp: 7609
 Ion Ratio Lower Upper
 180 100
 182 46.0 48.7 146.1#
 145 2.3 15.0 45.1#



#95
 Naphthalene
 Concen: 4.820 ug/l
 RT: 15.37 min Scan# 2209
 Delta R.T. 0.01 min
 Lab File: VW012826.D
 Acq: 09 Sep 2019 17:16

Tgt Ion:128 Resp: 1192
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.7 16.1#
 129 0.0 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 10.656 ug/l
 RT: 15.57 min Scan# 2242
 Delta R.T. 0.02 min
 Lab File: VW012826.D
 Acq: 09 Sep 2019 17:16

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion:180 Resp: 12792
 Ion Ratio Lower Upper
 180 100
 182 8.9 47.8 143.3#
 145 1.6 15.4 46.2#

