

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U110218\
 Data File : VU027914.D
 Acq On : 02 Nov 2018 10:33
 Operator : MD/SY
 Sample : J5782-01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-7

Quant Time: Nov 03 04:19:15 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 02 02:28:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	164223	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	273616	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	256930	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	123545	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.31	65	140712	57.63	ug/l	0.00
Spiked Amount			Recovery	=	115.26%	
35) Dibromofluoromethane	4.89	113	106226	61.57	ug/l	0.00
Spiked Amount			Recovery	=	123.14%	
50) Toluene-d8	7.57	98	418277	62.76	ug/l	0.00
Spiked Amount			Recovery	=	125.52%	
62) 4-Bromofluorobenzene	10.31	95	146225	59.49	ug/l	0.00
Spiked Amount			Recovery	=	118.98%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	2.42	142	84	7.805	ug/l #	40
11) Tert butyl alcohol	2.83	59	478	0.740	ug/l #	73
13) Acrolein	2.20	56	183	Below Cal	#	15
16) Acetone	2.33	43	5089	3.359	ug/l	100
17) Carbon Disulfide	2.48	76	1622	0.288	ug/l #	75
31) Cyclohexane	4.99	56	4311	Below Cal	#	7
36) 1,1-Dichloropropene	4.98	75	13733	4.792	ug/l #	50
38) Carbon Tetrachloride	4.99	117	16138	6.355	ug/l #	16
40) Benzene	5.40	78	4121	0.470	ug/l	94
51) 4-Methyl-2-Pentanone	7.47	43	1279	0.291	ug/l	89
59) 2-Hexanone	8.39	43	942	0.277	ug/l	88
67) Ethyl Benzene	9.25	91	3382	0.338	ug/l #	84
76) 1,2,3-Trichloropropane	10.31	75	75575	22.364	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	75575	55.808	ug/l #	100
88) 1,4-Dichlorobenzene	11.51	146	836	0.201	ug/l #	31
93) 1,2,4-Trichlorobenzene	13.51	180	416	0.828	ug/l #	63
94) Hexachlorobutadiene	13.69	225	278	0.215	ug/l	91
96) 1,2,3-Trichlorobenzene	14.00	180	785	0.287	ug/l	80

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

```
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Acq On    : 02 Nov 2018   10:33  
Operator  : MD/SY  
Sample    : J5782-01  
Misc      : 5.0mL/MSVOA U/WATER  
ALS Vial  : 13      Sample Multiplier: 1
```



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU027914.D

Acq: 02 Nov 2018 10:33

Instrument :

MSVOA_U

ClientSampleId :

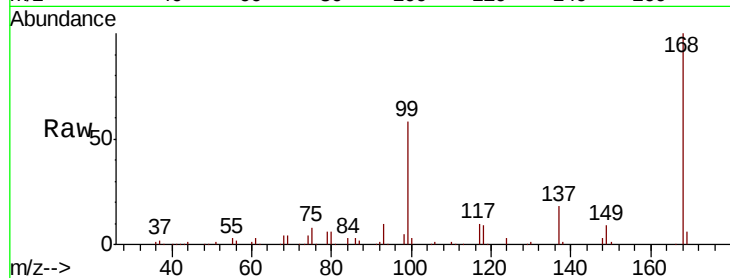
MW-7

Tot Ion:168 Resp: 164223

Ion Ratio Lower Upper

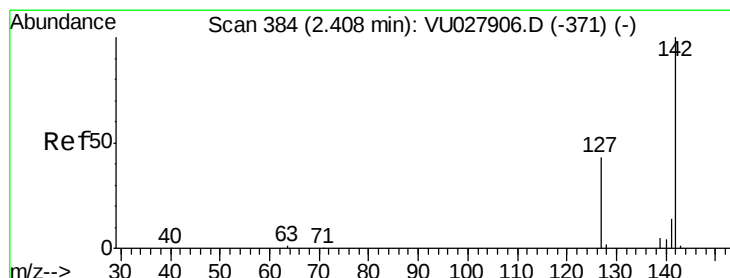
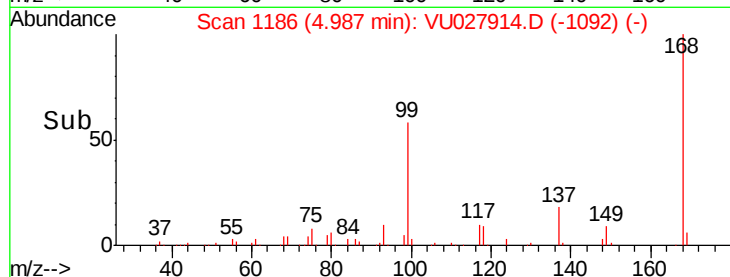
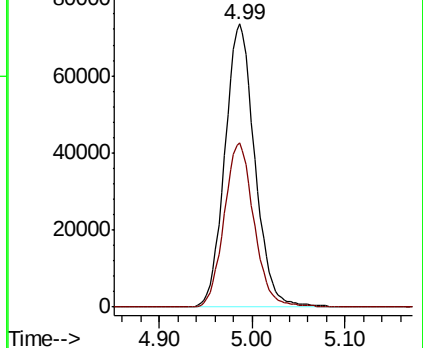
168 100

99 58.1 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VU0



#10

Methyl Iodide

Concen: 7.805 ug/l

RT: 2.42 min Scan# 387

Delta R.T. 0.01 min

Lab File: VU027914.D

Acq: 02 Nov 2018 10:33

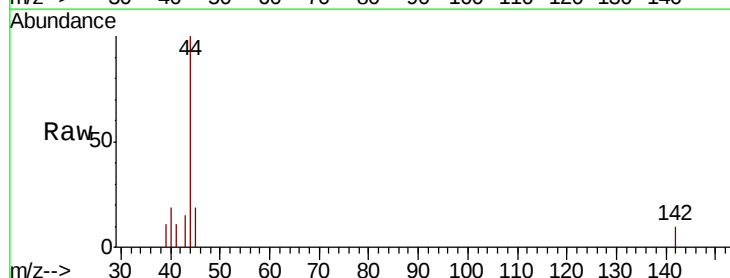
Tgt Ion:142 Resp: 84

Ion Ratio Lower Upper

142 100

127 0.0 35.2 52.8#

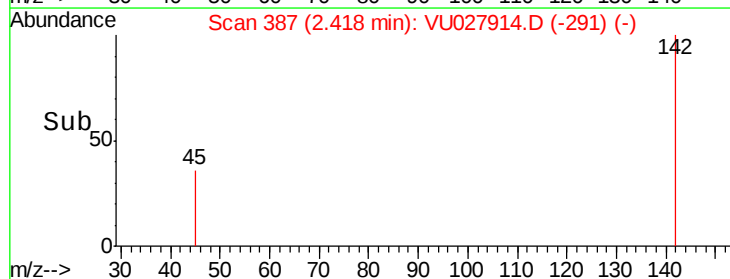
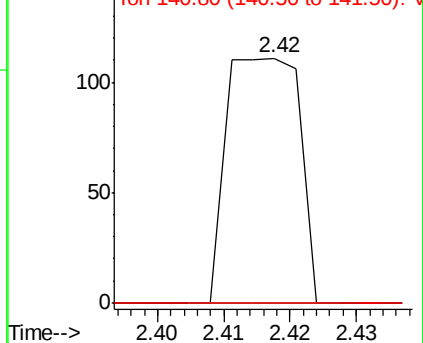
141 0.0 11.8 17.8#

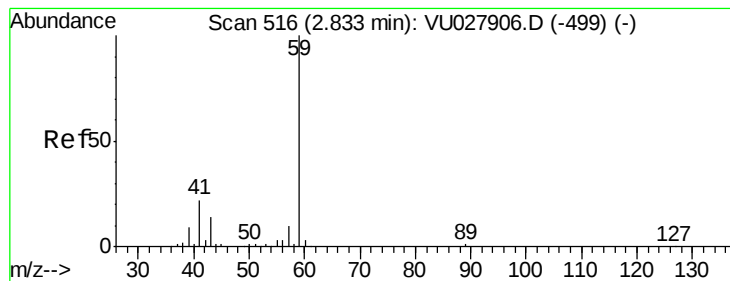


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



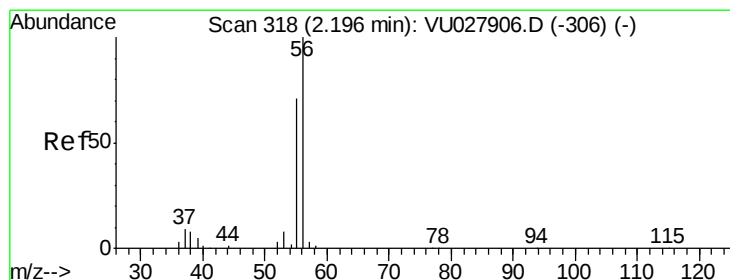
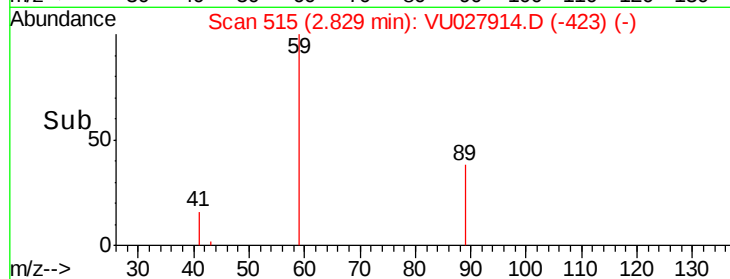
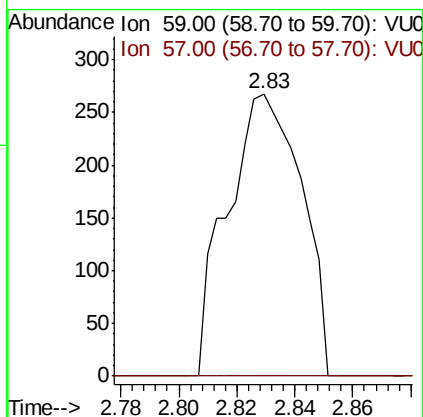
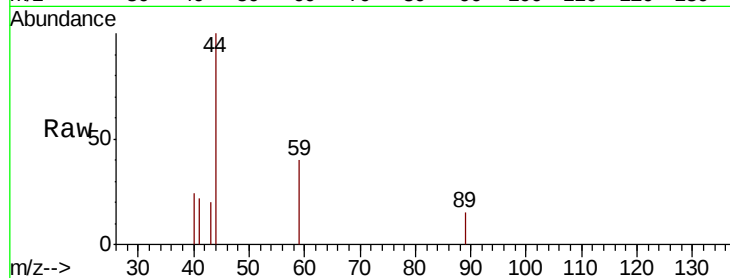


#11

Tert butyl alcohol
 Concen: 0.740 ug/l
 RT: 2.83 min Scan# 515
 Delta R.T. -0.00 min
 Lab File: VU027914.D
 Acq: 02 Nov 2018 10:33

Instrument :
 MSVOA_U
 ClientSampled :
 MW-7

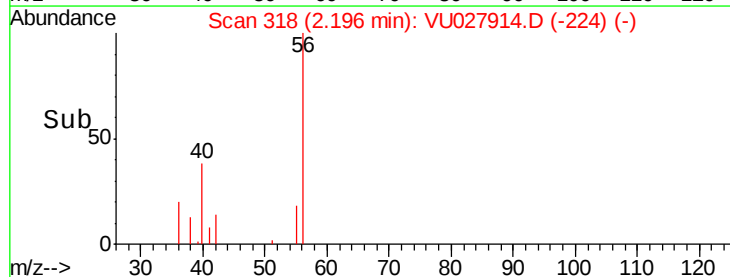
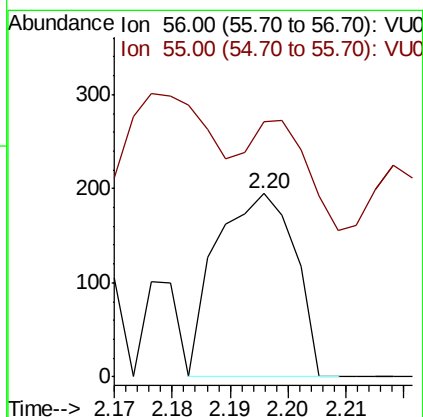
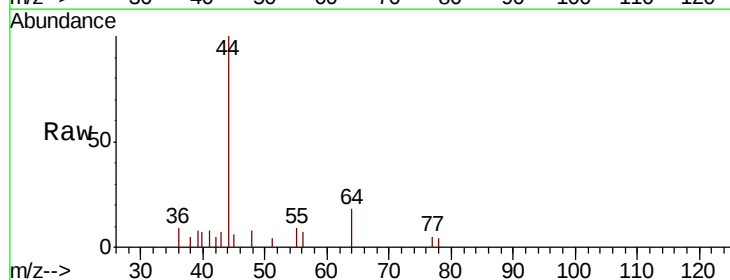
Tot Ion: 59 Resp: 478
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.8#

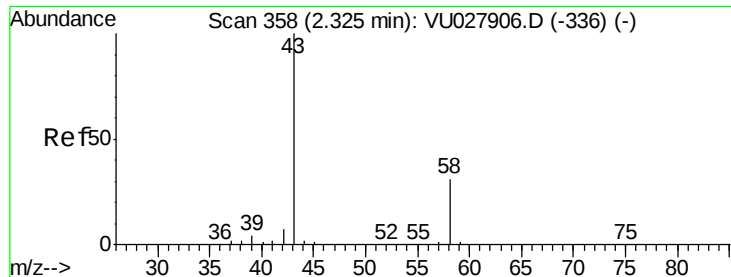


#13

Acrolein
 Concen: Below Cal
 RT: 2.20 min Scan# 318
 Delta R.T. 0.00 min
 Lab File: VU027914.D
 Acq: 02 Nov 2018 10:33

Tgt Ion: 56 Resp: 183
 Ion Ratio Lower Upper
 56 100
 55 0.0 56.2 84.4#





#16

Acetone

Concen: 3.359 ug/l

RT: 2.33 min Scan# 359

Delta R.T. 0.00 min

Lab File: VU027914.D

Acq: 02 Nov 2018 10:33

Instrument :

MSVOA_U

ClientSampleId :

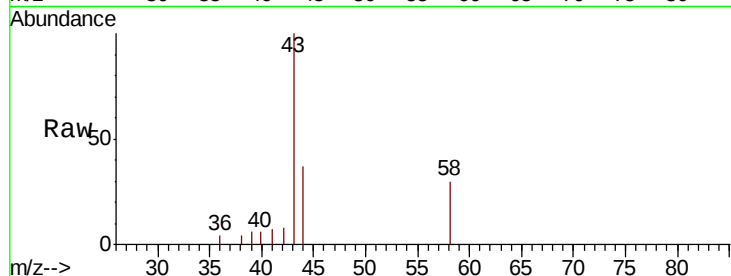
MW-7

Tot Ion: 43 Resp: 5089

Ion Ratio Lower Upper

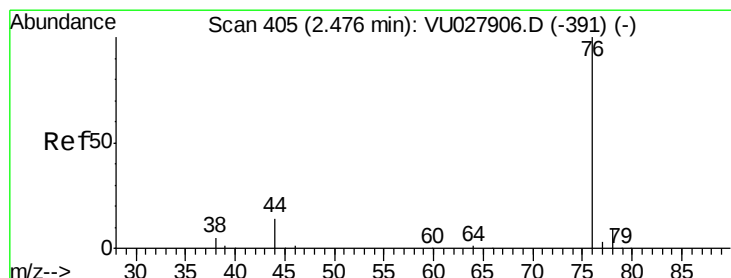
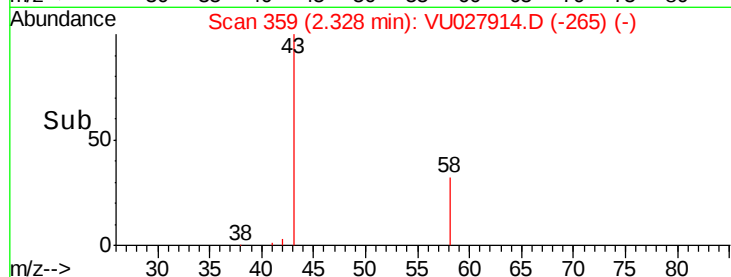
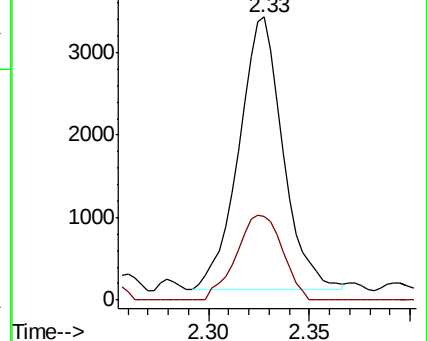
43 100

58 30.7 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VU027906.D (-336) (-)

Ion 58.00 (57.70 to 58.70): VU027906.D (-336) (-)



#17

Carbon Disulfide

Concen: 0.288 ug/l

RT: 2.48 min Scan# 406

Delta R.T. 0.00 min

Lab File: VU027914.D

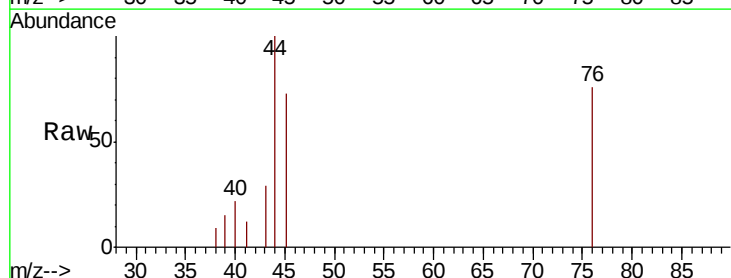
Acq: 02 Nov 2018 10:33

Tgt Ion: 76 Resp: 1622

Ion Ratio Lower Upper

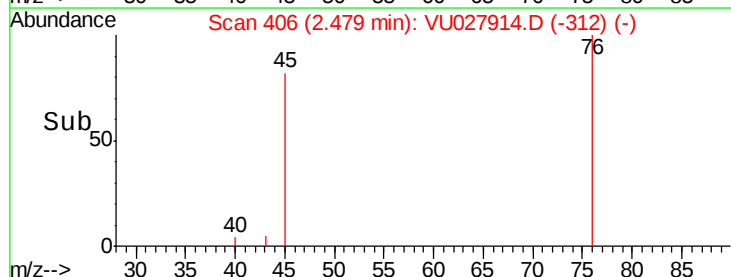
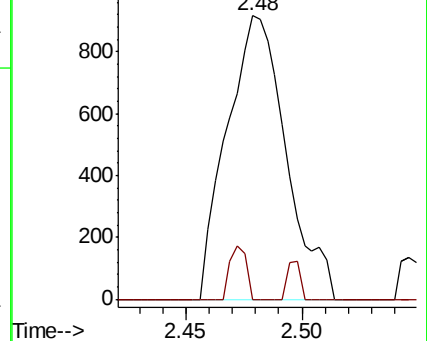
76 100

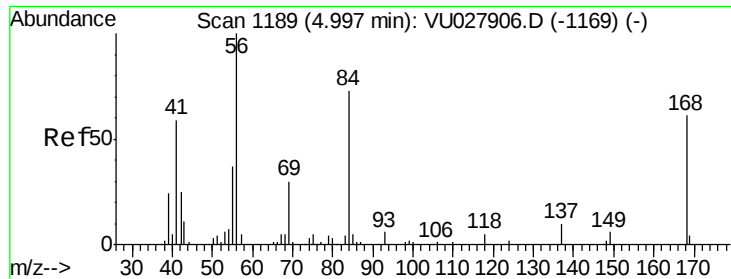
78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VU027906.D (-391) (-)

Ion 77.90 (77.60 to 78.60): VU027906.D (-391) (-)

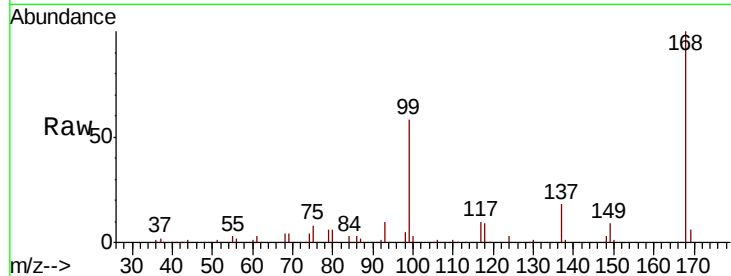




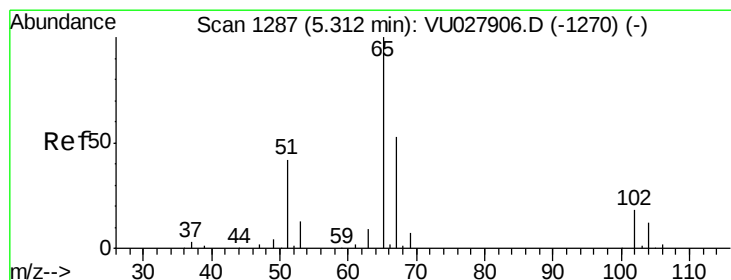
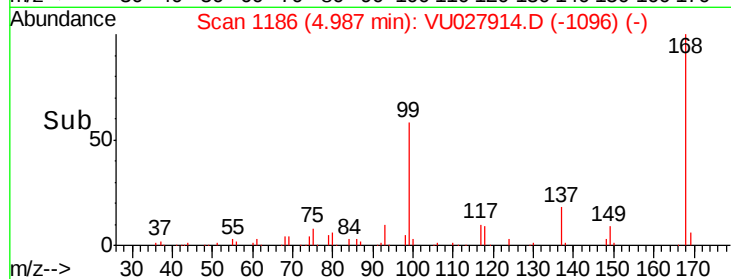
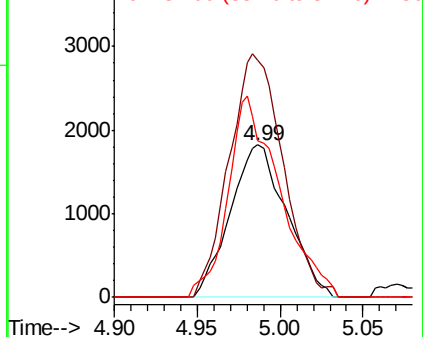
#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1186
Delta R.T. -0.01 min
Lab File: VU027914.D
Acq: 02 Nov 2018 10:33

Instrument :
MSVOA_U
ClientSampleId :
MW-7

Tot Ion: 56 Resp: 4311
Ion Ratio Lower Upper
56 100
69 155.8 23.7 35.5#
84 102.8 58.2 87.4#

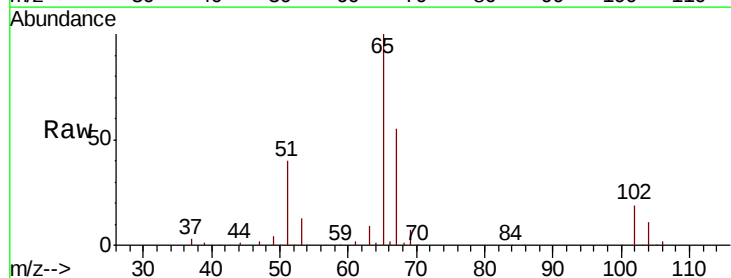


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

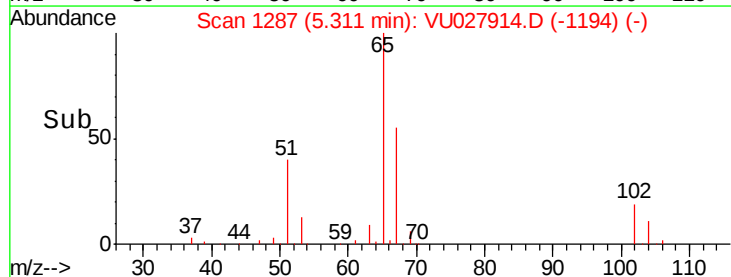
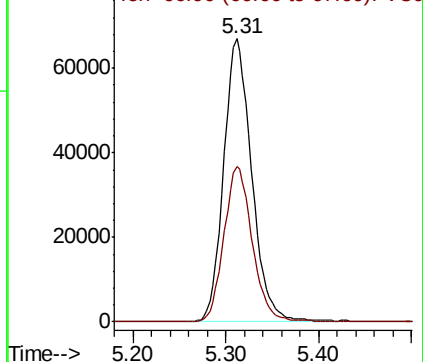


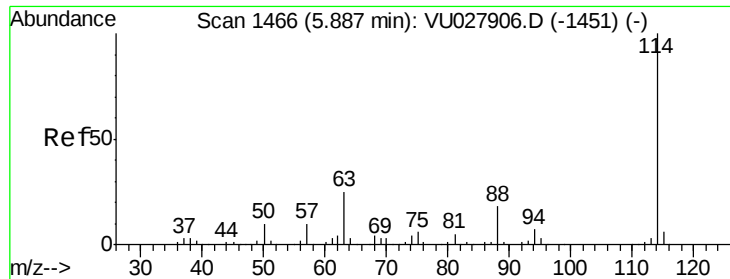
#33
1,2-Dichloroethane-d4
Concen: 57.631 ug/l
RT: 5.31 min Scan# 1287
Delta R.T. -0.00 min
Lab File: VU027914.D
Acq: 02 Nov 2018 10:33

Tgt Ion: 65 Resp: 140712
Ion Ratio Lower Upper
65 100
67 55.1 0.0 109.0



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0

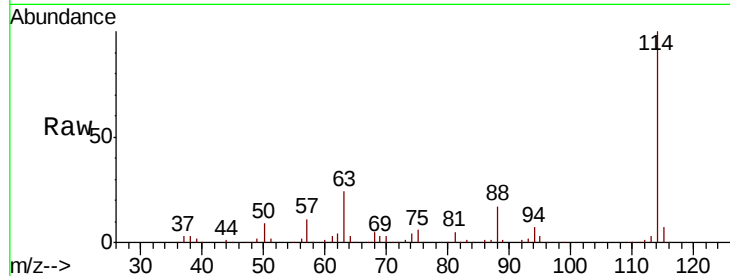




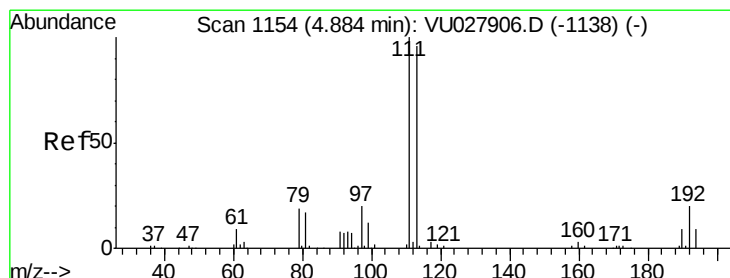
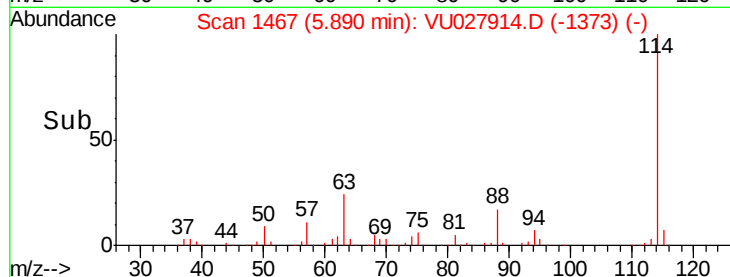
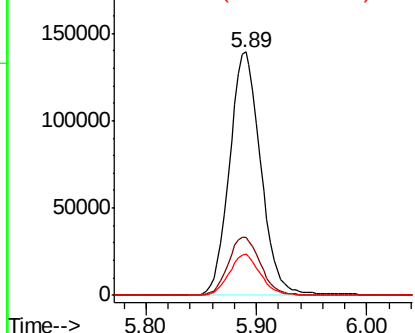
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1467
 Delta R.T. 0.00 min
 Lab File: VU027914.D
 Acq: 02 Nov 2018 10:33

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-7

Tot Ion:114 Resp: 273616
 Ion Ratio Lower Upper
 114 100
 63 23.6 0.0 50.8
 88 16.7 0.0 35.8

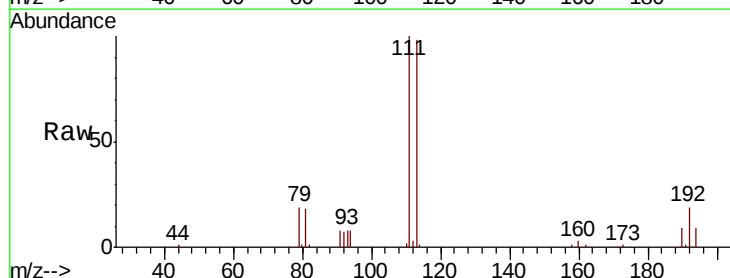


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

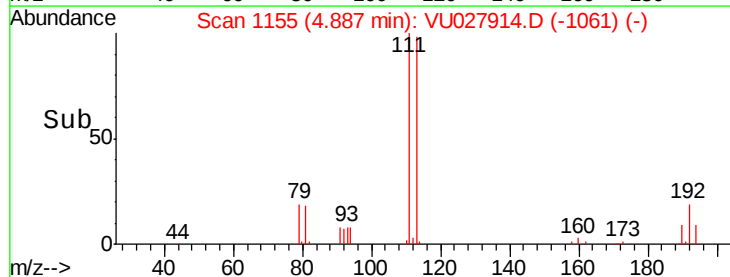
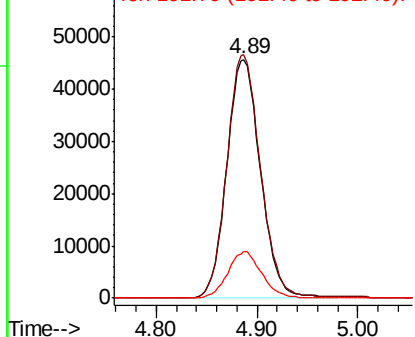


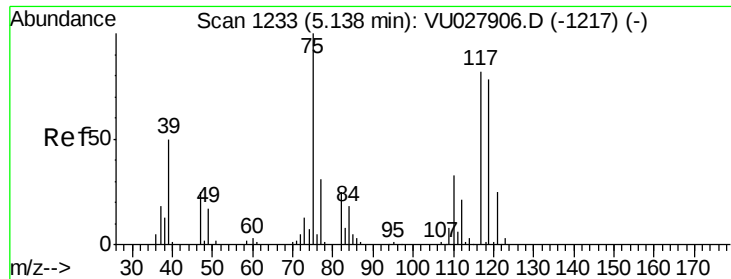
#35
 Dibromofluoromethane
 Concen: 61.573 ug/l
 RT: 4.89 min Scan# 1155
 Delta R.T. 0.00 min
 Lab File: VU027914.D
 Acq: 02 Nov 2018 10:33

Tgt Ion:113 Resp: 106226
 Ion Ratio Lower Upper
 113 100
 111 101.8 83.0 124.6
 192 19.4 15.6 23.4



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

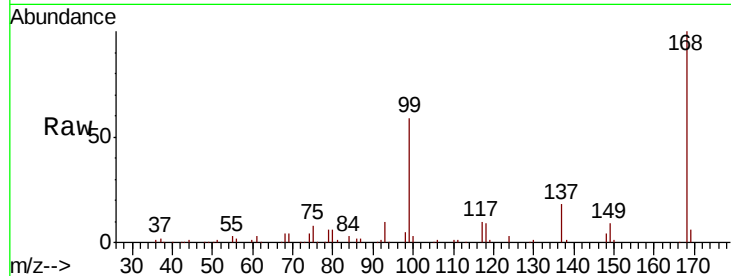




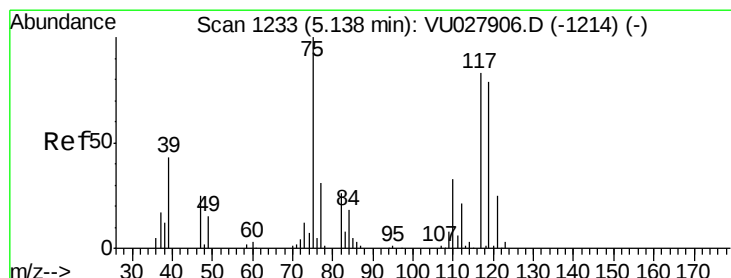
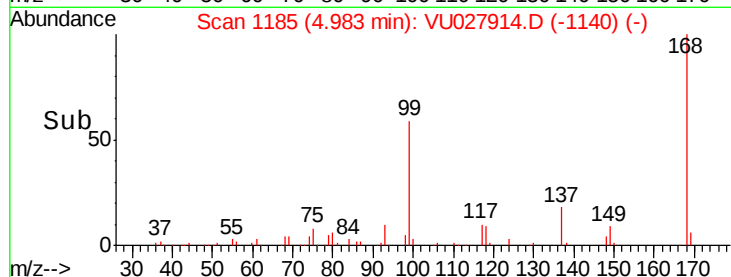
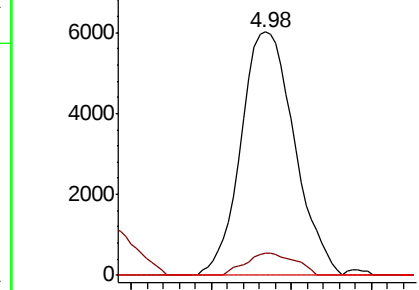
#36
 1,1-Dichloropropene
 Concen: 4.792 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU027914.D
 Acq: 02 Nov 2018 10:33

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-7

Tot Ion	Ratio	Lower	Upper
75	100		
110	8.4	16.5	49.5#
77	0.0	24.9	37.3#

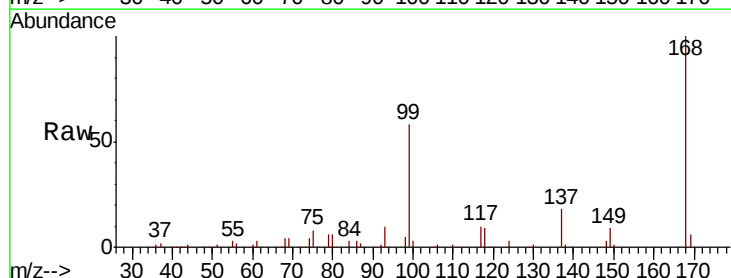


Abundance Ion 74.90 (74.60 to 75.60): VU027906.D (-1217) (-)
 Ion 109.90 (109.60 to 110.60): VU027906.D (-1217) (-)
 Ion 76.90 (76.60 to 77.60): VU027906.D (-1217) (-)

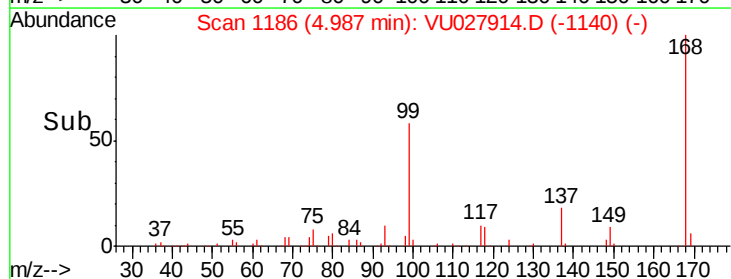
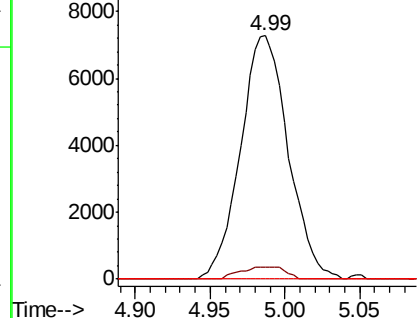


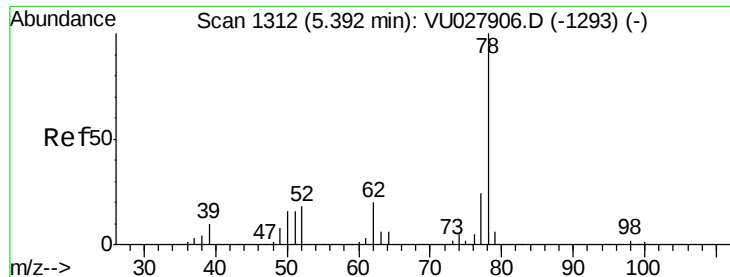
#38
 Carbon Tetrachloride
 Concen: 6.355 ug/l
 RT: 4.99 min Scan# 1186
 Delta R.T. -0.15 min
 Lab File: VU027914.D
 Acq: 02 Nov 2018 10:33

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.7	76.0	114.0#
121	0.0	24.5	36.7#



Abundance Ion 116.80 (116.50 to 117.50): VU027906.D (-1214) (-)
 Ion 118.80 (118.50 to 119.50): VU027906.D (-1214) (-)
 Ion 120.80 (120.50 to 121.50): VU027906.D (-1214) (-)





#40

Benzene

Concen: 0.470 ug/l

RT: 5.40 min Scan# 1314

Delta R.T. 0.01 min

Lab File: VU027914.D

Acq: 02 Nov 2018 10:33

Instrument :

MSVOA_U

ClientSampleId :

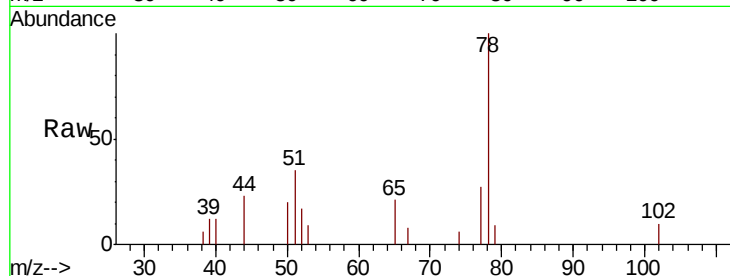
MW-7

Tot Ion: 78 Resp: 4121

Ion Ratio Lower Upper

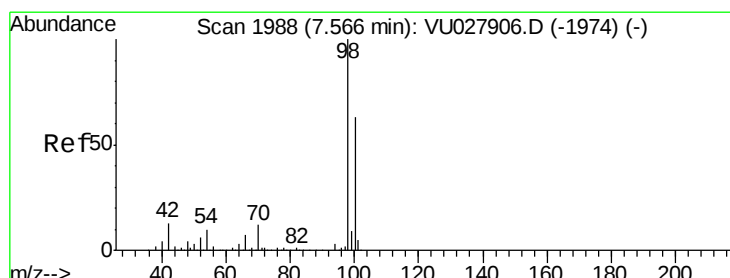
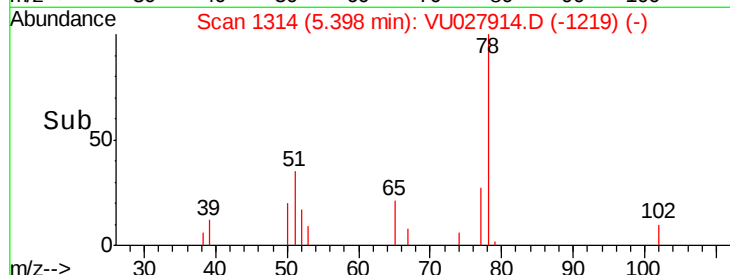
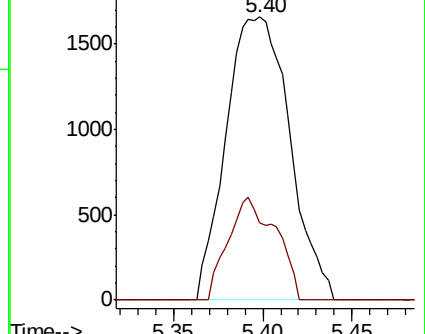
78 100

77 27.1 19.3 28.9



Abundance Ion 78.00 (77.70 to 78.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



#50

Toluene-d8

Concen: 62.764 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VU027914.D

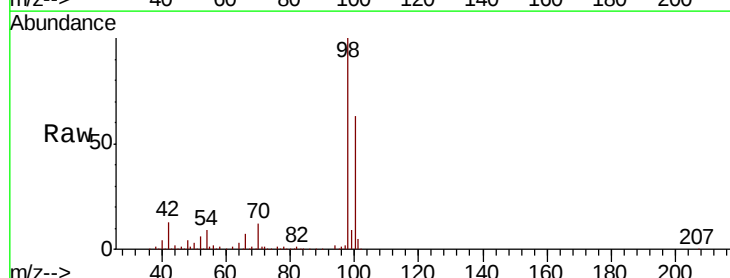
Acq: 02 Nov 2018 10:33

Tgt Ion: 98 Resp: 418277

Ion Ratio Lower Upper

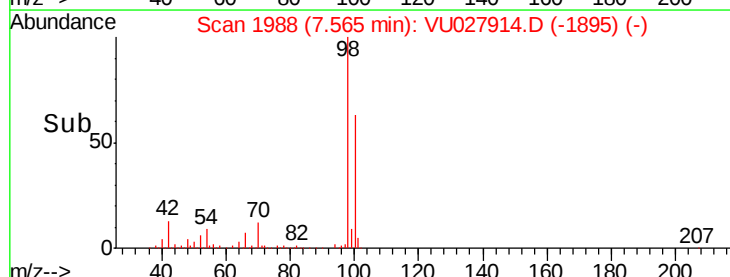
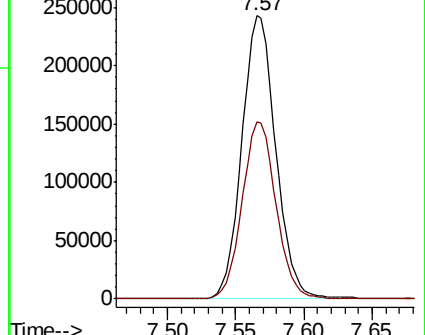
98 100

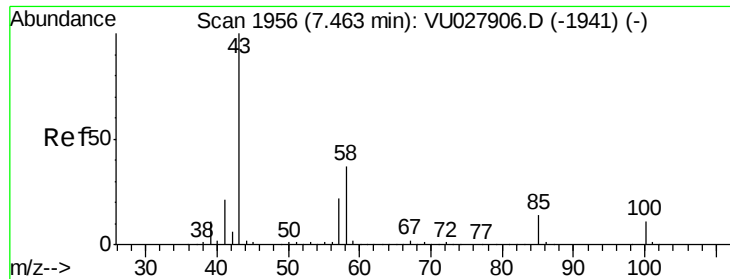
100 62.7 50.1 75.1



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU0





#51

4-Methyl-2-Pentanone

Concen: 0.291 ug/l

RT: 7.47 min Scan# 1957

Delta R.T. 0.00 min

Lab File: VU027914.D

Acq: 02 Nov 2018 10:33

Instrument :

MSVOA_U

ClientSampled :

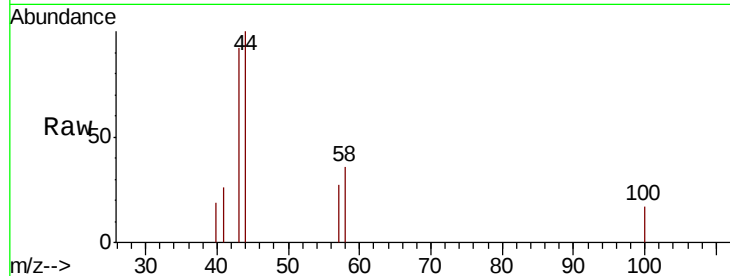
MW-7

Tot Ion: 43 Resp: 1279

Ion Ratio Lower Upper

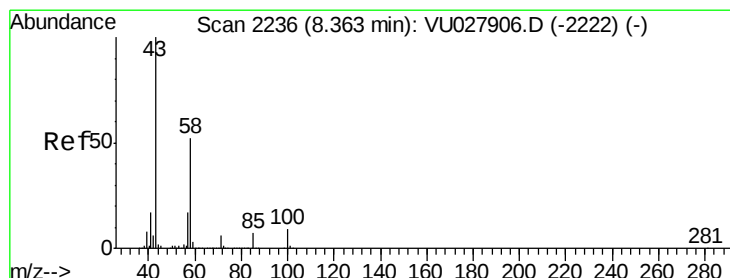
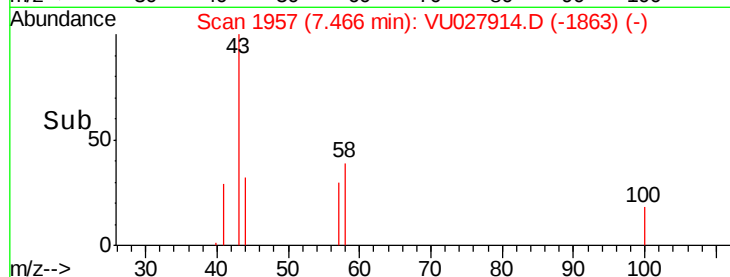
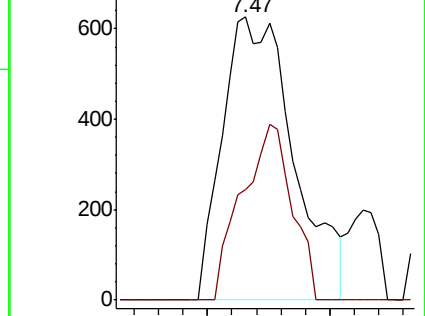
43 100

58 43.4 29.5 44.3



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#59

2-Hexanone

Concen: 0.277 ug/l

RT: 8.39 min Scan# 2244

Delta R.T. 0.03 min

Lab File: VU027914.D

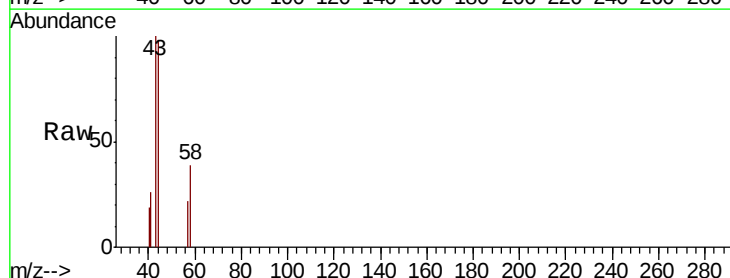
Acq: 02 Nov 2018 10:33

Tgt Ion: 43 Resp: 942

Ion Ratio Lower Upper

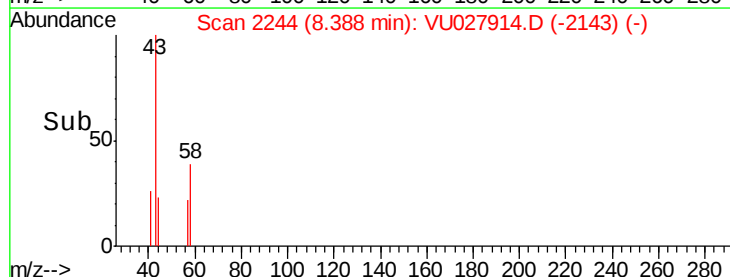
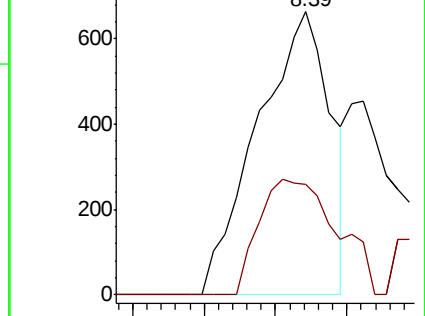
43 100

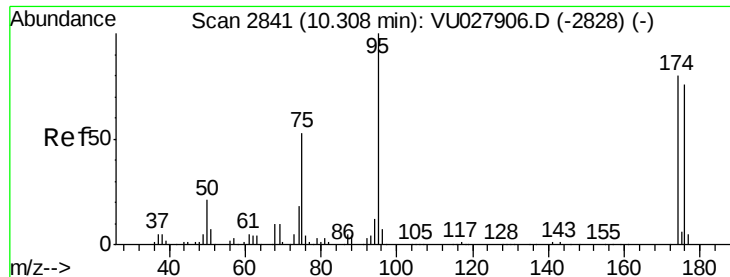
58 43.2 25.8 77.3



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0





#62

4-Bromofluorobenzene

Concen: 59.488 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.00 min

Lab File: VU027914.D

Acq: 02 Nov 2018 10:33

Instrument :

MSVOA_U

ClientSampleId :

MW-7

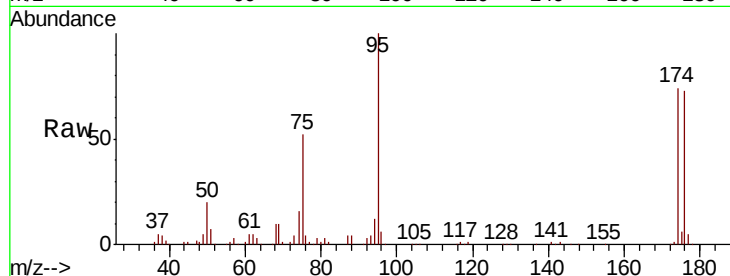
Tot Ion: 95 Resp: 146225

Ion Ratio Lower Upper

95 100

174 76.6 0.0 156.4

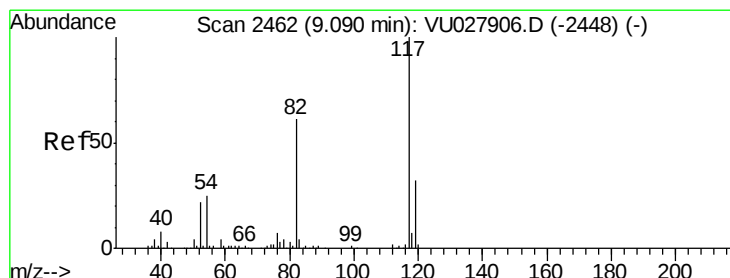
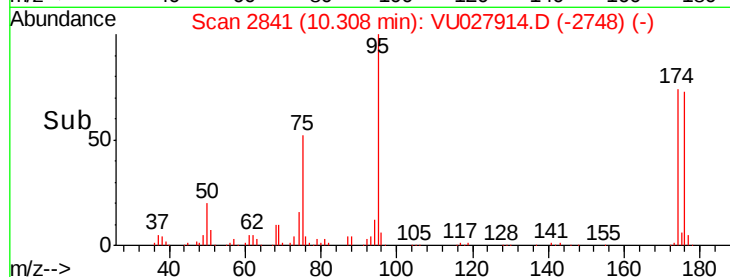
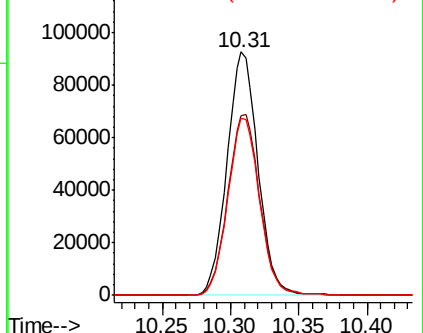
176 74.9 0.0 150.8



Abundance Ion 94.90 (94.60 to 95.60): VU0

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: 9.09 min Scan# 2462

Delta R.T. -0.00 min

Lab File: VU027914.D

Acq: 02 Nov 2018 10:33

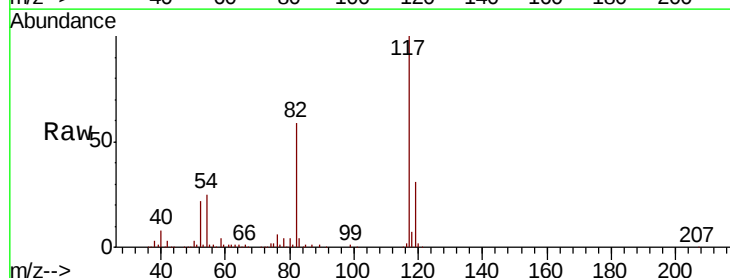
Tgt Ion: 117 Resp: 256930

Ion Ratio Lower Upper

117 100

82 59.2 48.6 73.0

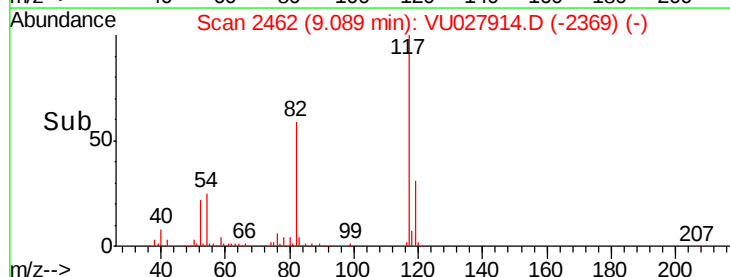
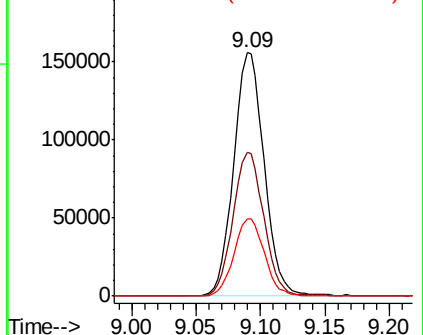
119 31.5 25.8 38.8

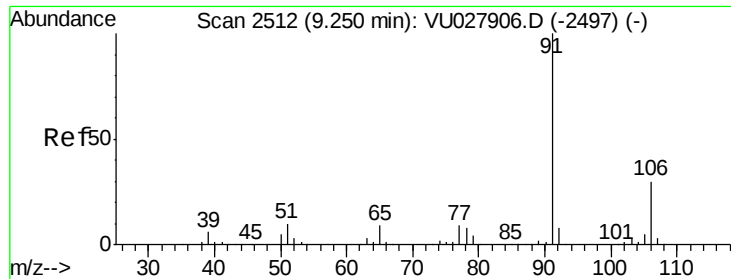


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VU0

Ion 118.90 (118.60 to 119.60): V

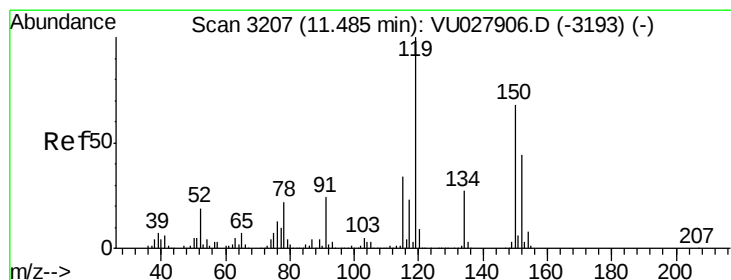
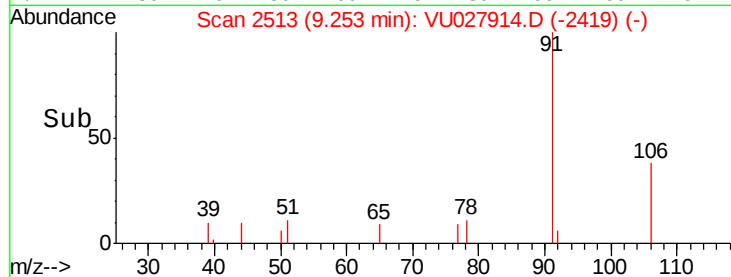
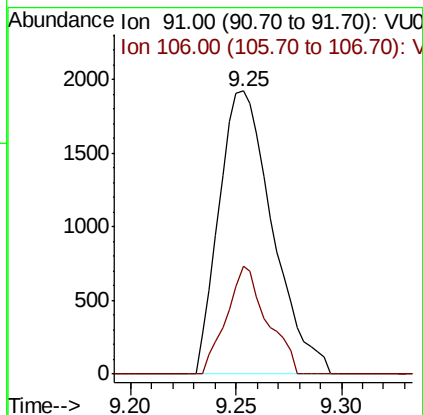
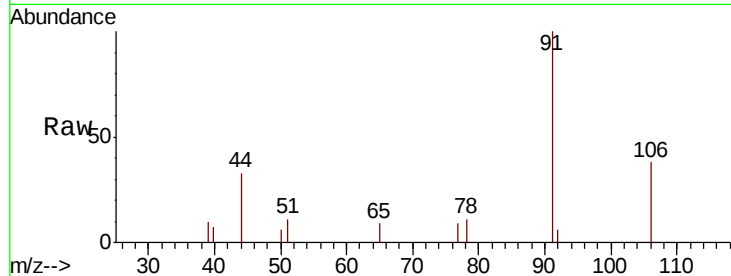




#67
Ethyl Benzene
Concen: 0.338 ug/l
RT: 9.25 min Scan# 2513
Delta R.T. 0.00 min
Lab File: VU027914.D
Acq: 02 Nov 2018 10:33

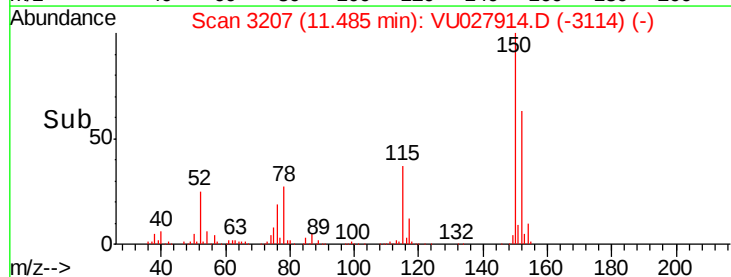
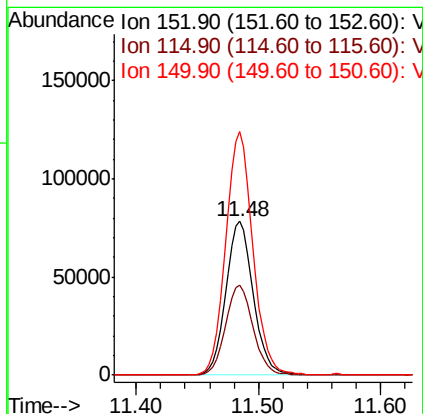
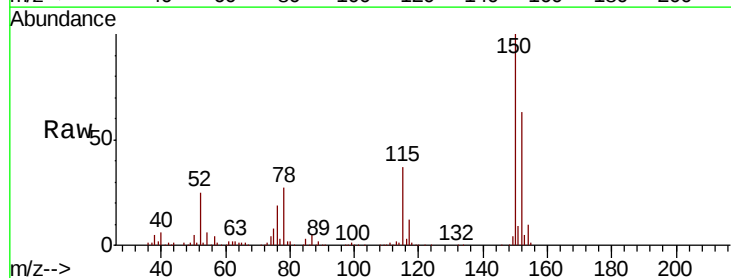
Instrument :
MSVOA_U
ClientSampleId :
MW-7

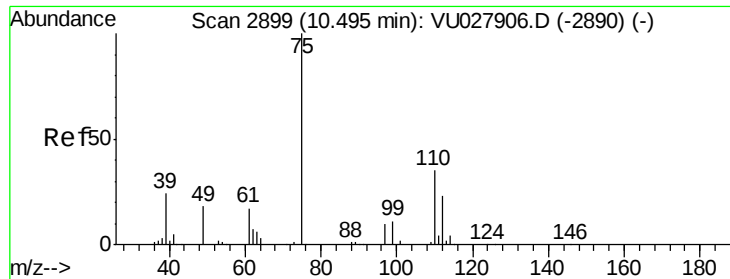
Tot Ion: 91 Resp: 3382
Ion Ratio Lower Upper
91 100
106 38.1 23.6 35.4#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3207
Delta R.T. -0.00 min
Lab File: VU027914.D
Acq: 02 Nov 2018 10:33

Tgt Ion: 152 Resp: 123545
Ion Ratio Lower Upper
152 100
115 59.0 43.0 129.0
150 156.8 0.0 349.4

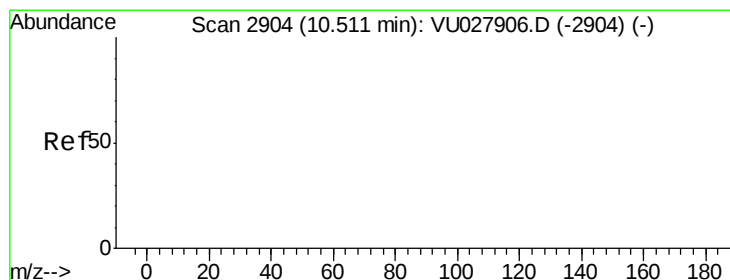
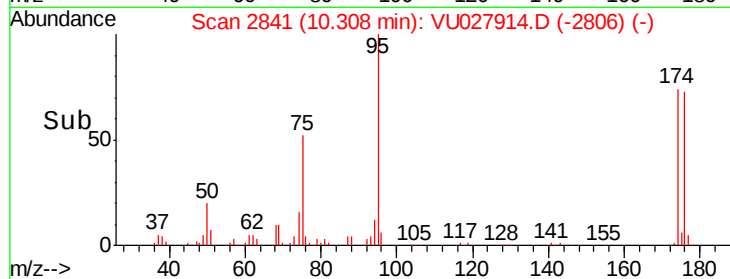
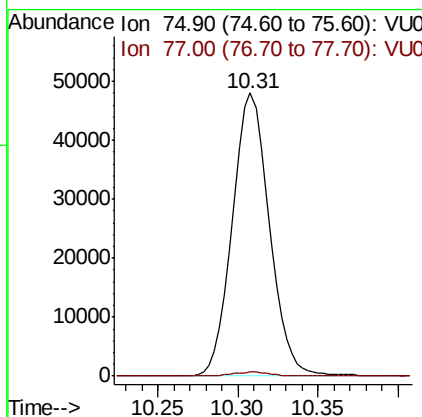
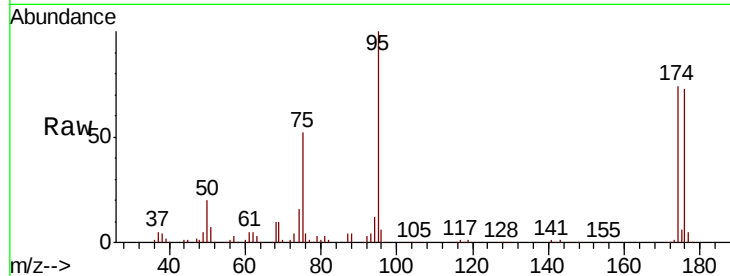




#76
 1,2,3-Trichloropropane
 Concen: 22.364 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. -0.19 min
 Lab File: VU027914.D
 Acq: 02 Nov 2018 10:33

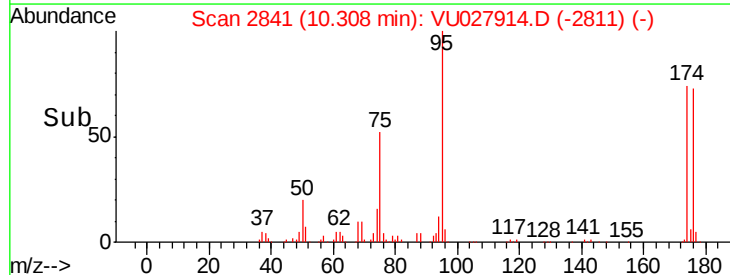
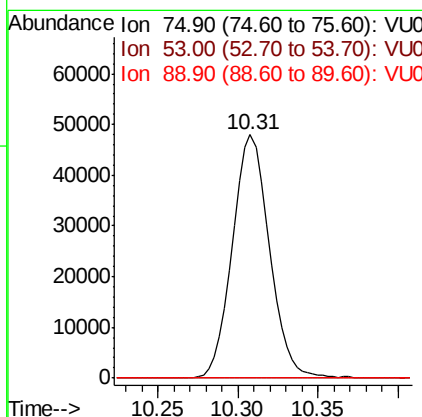
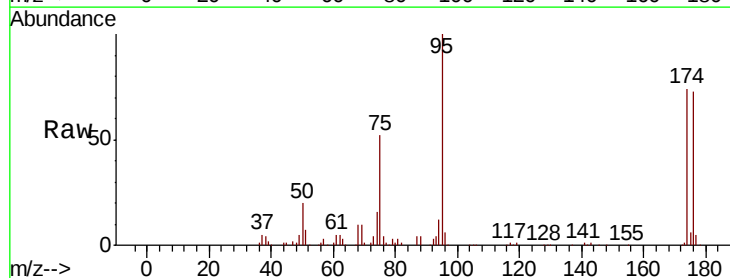
Instrument :
 MSVOA_U
 ClientSampled :
 MW-7

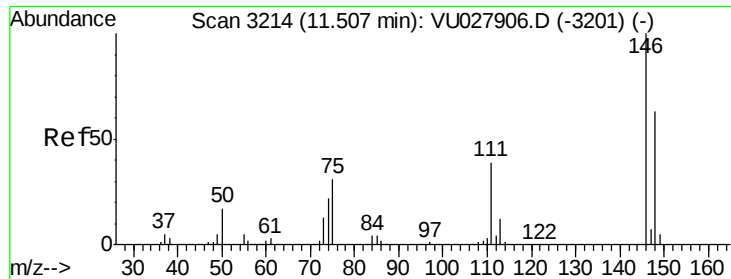
Tot Ion: 75 Resp: 75575
 Ion Ratio Lower Upper
 75 100
 77 1.3 21.6 64.6#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 55.808 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. -0.20 min
 Lab File: VU027914.D
 Acq: 02 Nov 2018 10:33

Tgt Ion: 75 Resp: 75575
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.0 0.0 0.0





#88

1,4-Dichlorobenzene

Concen: 0.201 ug/l

RT: 11.51 min Scan# 3214

Delta R.T. -0.00 min

Lab File: VU027914.D

Acq: 02 Nov 2018 10:33

Instrument :

MSVOA_U

ClientSampled :

MW-7

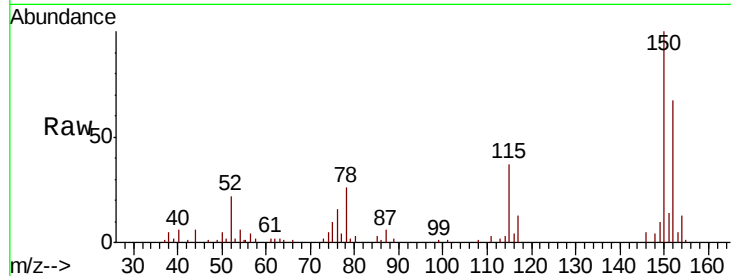
Tot Ion:146 Resp: 836

Ion Ratio Lower Upper

146 100

111 0.0 20.3 60.9#

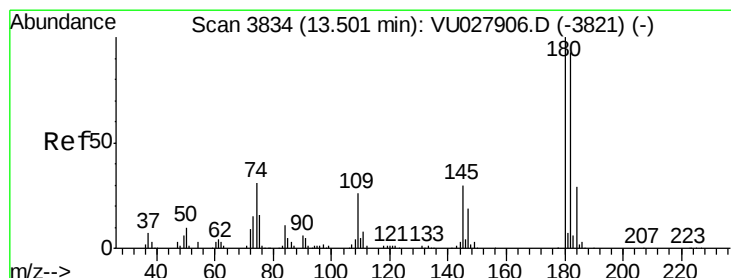
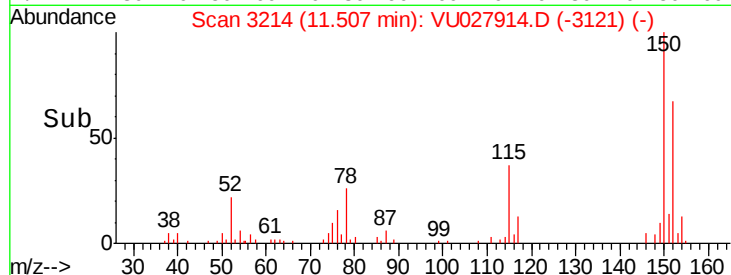
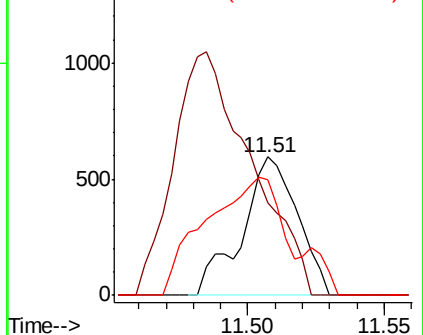
148 120.1 32.0 96.2#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#93

1,2,4-Trichlorobenzene

Concen: 0.828 ug/l

RT: 13.51 min Scan# 3838

Delta R.T. 0.01 min

Lab File: VU027914.D

Acq: 02 Nov 2018 10:33

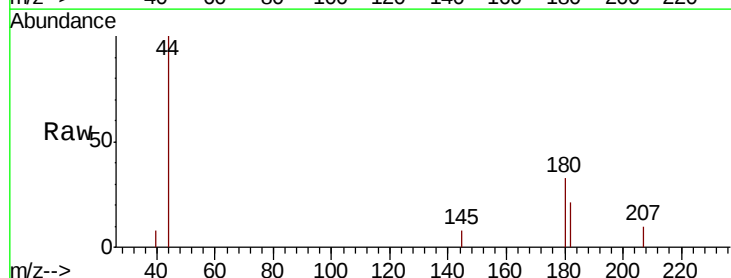
Tgt Ion:180 Resp: 416

Ion Ratio Lower Upper

180 100

182 129.8 48.4 145.2

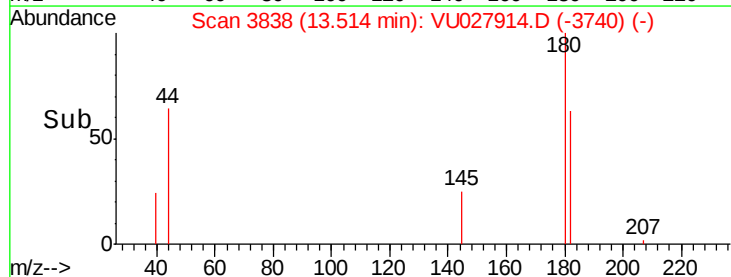
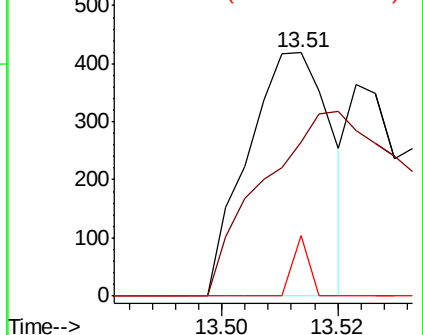
145 4.8 14.9 44.5#

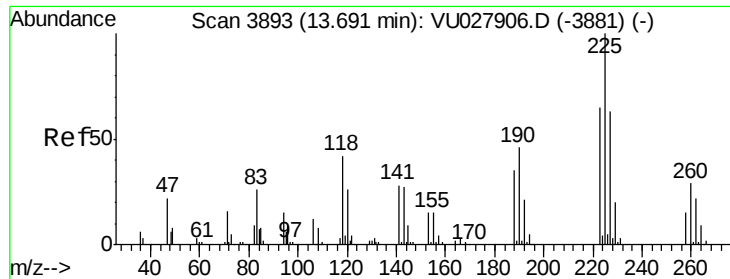


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.215 ug/l

RT: 13.69 min Scan# 3894

Delta R.T. 0.00 min

Lab File: VU027914.D

Acq: 02 Nov 2018 10:33

Instrument :

MSVOA_U

ClientSampleId :

MW-7

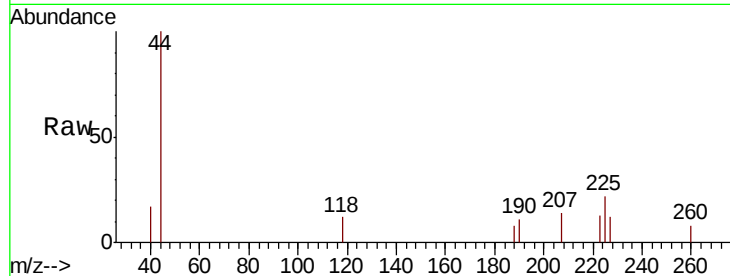
Tot Ion:225 Resp: 278

Ion Ratio Lower Upper

225 100

223 61.9 32.2 96.6

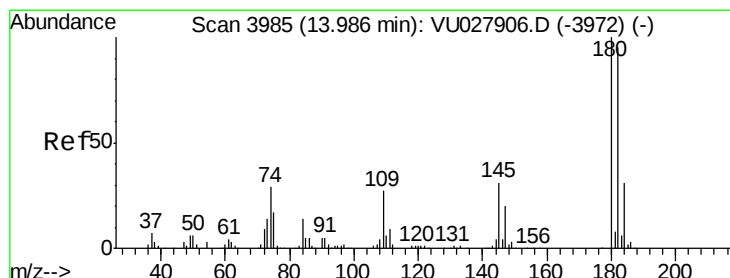
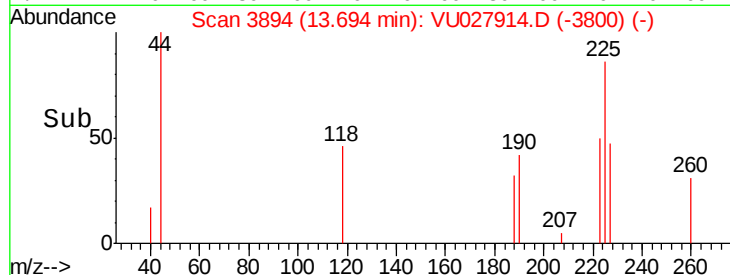
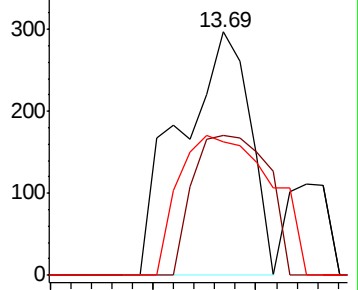
227 76.3 32.5 97.4



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#96

1,2,3-Trichlorobenzene

Concen: 0.287 ug/l

RT: 14.00 min Scan# 3990

Delta R.T. 0.02 min

Lab File: VU027914.D

Acq: 02 Nov 2018 10:33

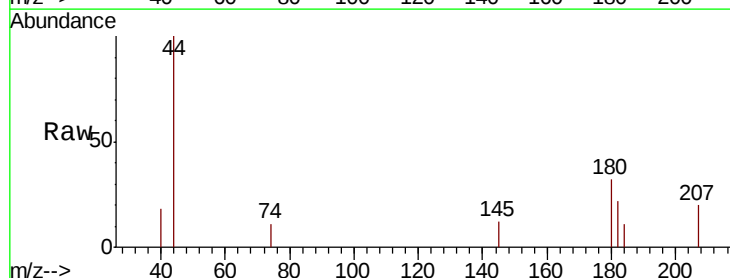
Tgt Ion:180 Resp: 785

Ion Ratio Lower Upper

180 100

182 74.0 47.4 142.3

145 23.4 16.0 47.9



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

