

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092618\
 Data File : VU027204.D
 Acq On : 27 Sep 2018 02:21
 Operator : MD/SY
 Sample : J5048-07
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-83-SEP18

Quant Time: Sep 27 02:48:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U092218W.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 22 01:31:57 2018
 Response via : Initial Calibration

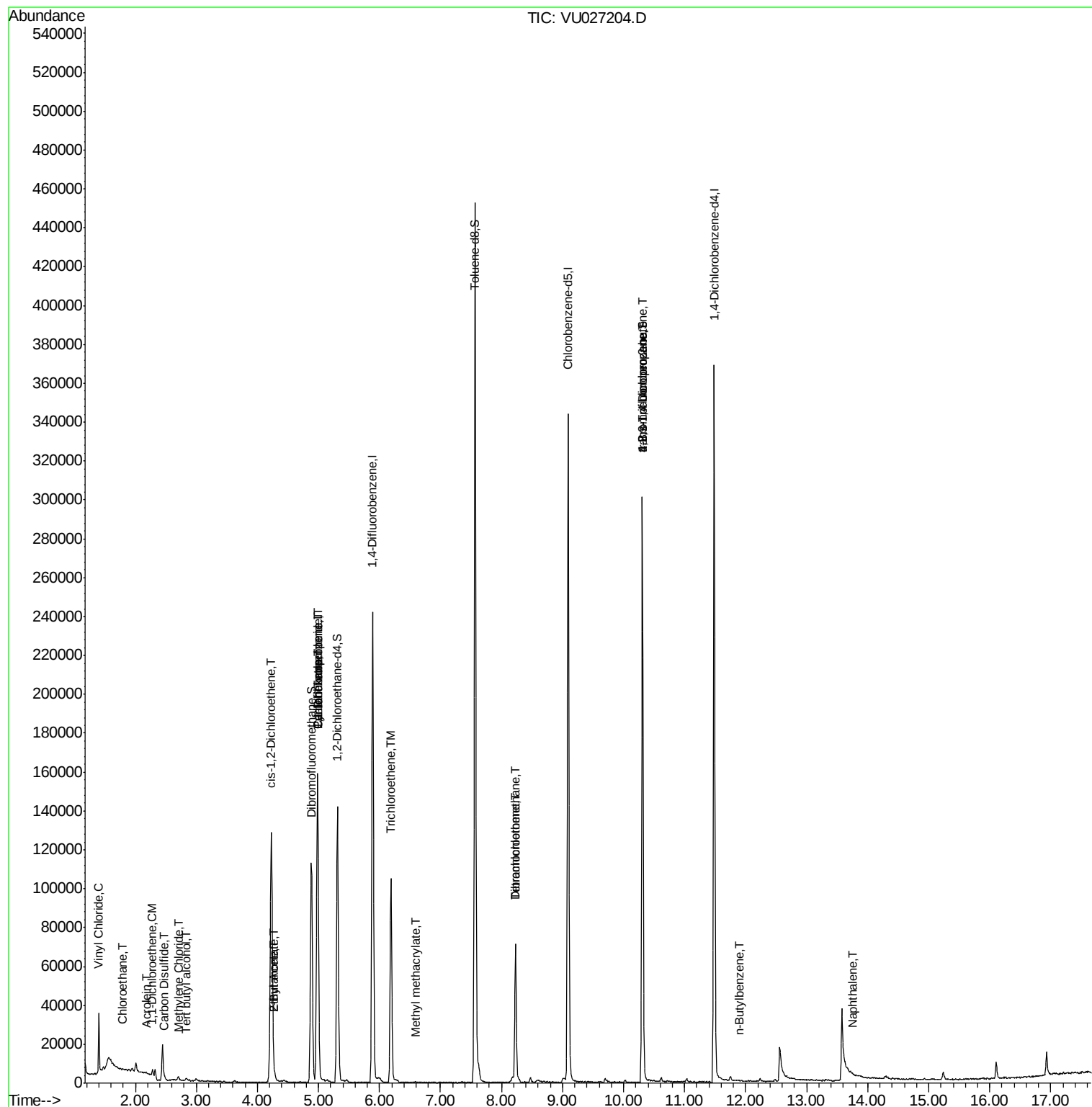
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	112615	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	189082	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	181182	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	87010	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	107898	47.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.20%	
35) Dibromofluoromethane	4.88	113	78569	47.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.88%	
50) Toluene-d8	7.57	98	295107	47.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.50%	
62) 4-Bromofluorobenzene	10.31	95	99891	46.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.22%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.40	62	18973	8.018	ug/l	98
6) Chloroethane	1.79	64	780	0.516	ug/l #	43
11) Tert butyl alcohol	2.83	59	597	1.149	ug/l #	72
12) 1,1-Dichloroethene	2.28	96	1148	0.738	ug/l	94
13) Acrolein	2.20	56	170	0.607	ug/l #	44
16) Acetone	2.32	43	5699	Below Cal		97
17) Carbon Disulfide	2.48	76	2258	0.446	ug/l #	75
20) Methylene Chloride	2.70	84	632	0.311	ug/l	90
25) 2-Butanone	4.28	43	7149	3.753	ug/l	93
27) cis-1,2-Dichloroethene	4.23	96	66559	35.491	ug/l	90
31) Cyclohexane	4.99	56	2646	0.211	ug/l #	1
36) 1,1-Dichloropropene	4.99	75	10063	3.988	ug/l #	49
37) Ethyl Acetate	4.28	43	7149	2.093	ug/l #	70
38) Carbon Tetrachloride	4.99	117	11514	4.795	ug/l #	19
44) Trichloroethene	6.19	130	35575	21.783	ug/l	95
48) Methyl methacrylate	6.59	41	63	1.035	ug/l #	17
60) Dibromochloromethane	8.23	129	15204	8.319	ug/l #	11
64) Tetrachloroethene	8.23	164	16107	11.537	ug/l	92
76) 1,2,3-Trichloropropane	10.31	75	52557	19.883	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	52557	63.628	ug/l #	100
89) n-Butylbenzene	11.89	91	170	2.419	ug/l #	71
95) Naphthalene	13.75	128	214	1.718	ug/l #	69

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

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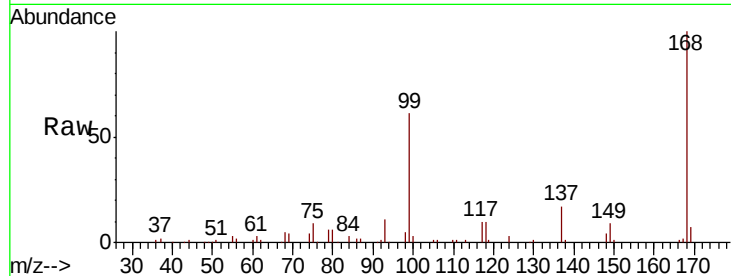




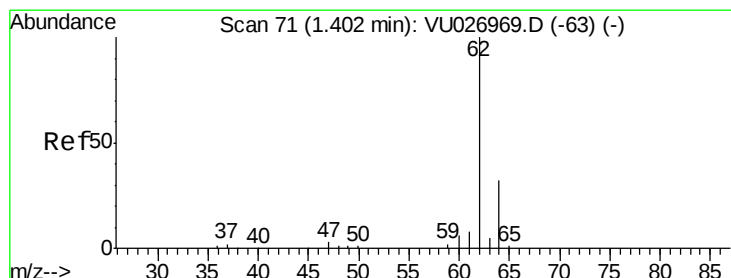
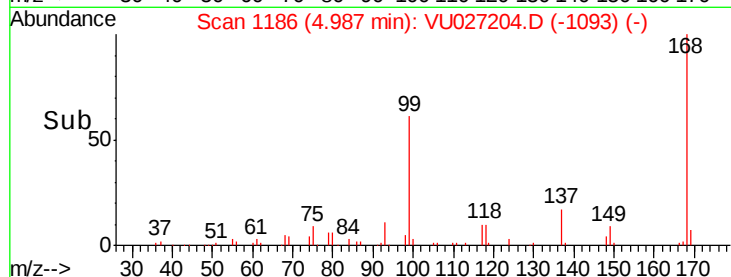
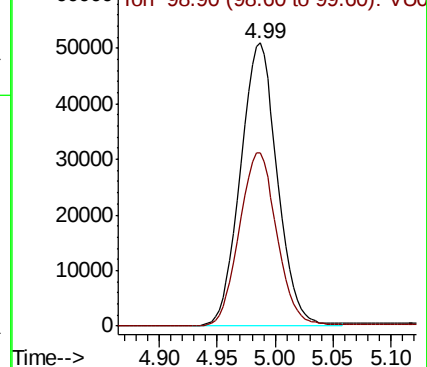
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.99 min Scan# 1186
Delta R.T. 0.00 min
Lab File: VU027204.D
Acq: 27 Sep 2018 02:21

Instrument :
MSVOA_U
ClientSampleId :
MW-83-SEP18

Tgt Ion:168 Resp: 112615
Ion Ratio Lower Upper
168 100
99 61.4 48.1 72.1

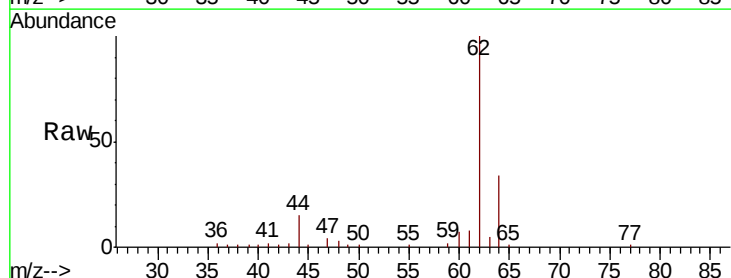


Abundance Ion 167.90 (167.60 to 168.60): VU026969.D (-1169) (-)
Ion 98.90 (98.60 to 99.60): VU026969.D (-1169) (-)

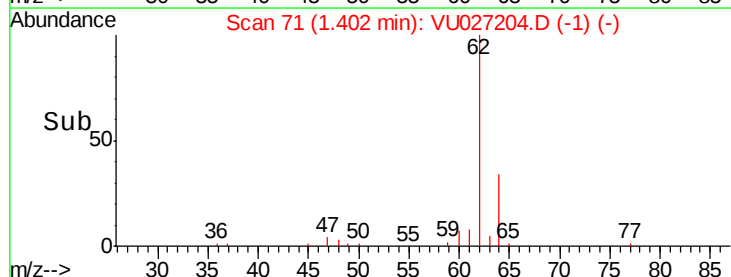
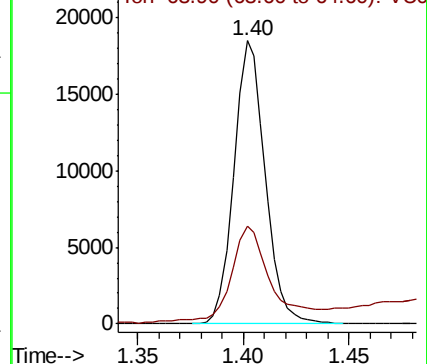


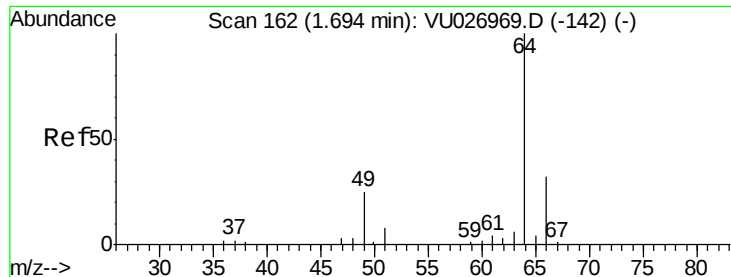
#4
Vinyl Chloride
Concen: 8.018 ug/l
RT: 1.40 min Scan# 71
Delta R.T. 0.00 min
Lab File: VU027204.D
Acq: 27 Sep 2018 02:21

Tgt Ion: 62 Resp: 18973
Ion Ratio Lower Upper
62 100
64 32.8 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VU026969.D (-63) (-)
Ion 63.90 (63.60 to 64.60): VU026969.D (-63) (-)





#6

Chloroethane

Concen: 0.516 ug/l

RT: 1.79 min Scan# 193

Delta R.T. 0.10 min

Lab File: VU027204.D

Acq: 27 Sep 2018 02:21

Instrument :

MSVOA_U

ClientSampleId :

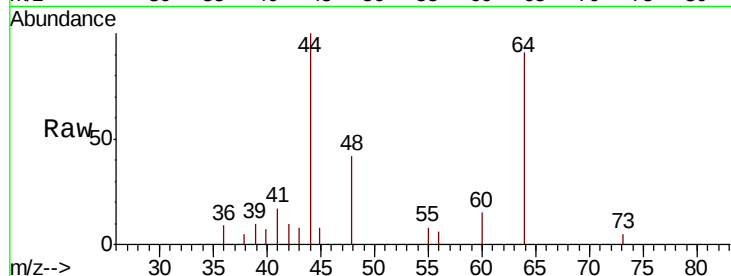
MW-83-SEP18

Tgt Ion: 64 Resp: 780

Ion Ratio Lower Upper

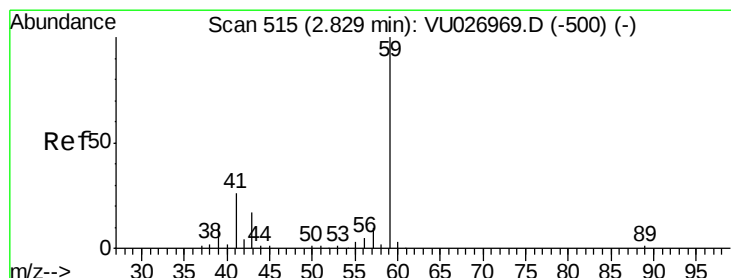
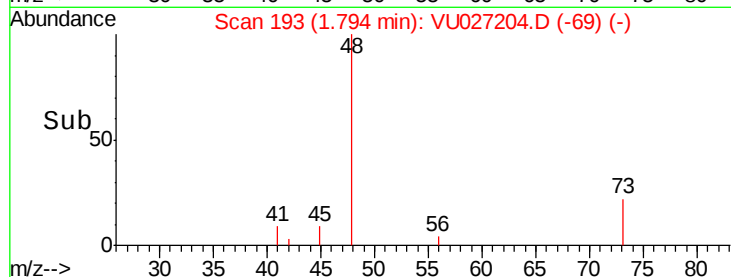
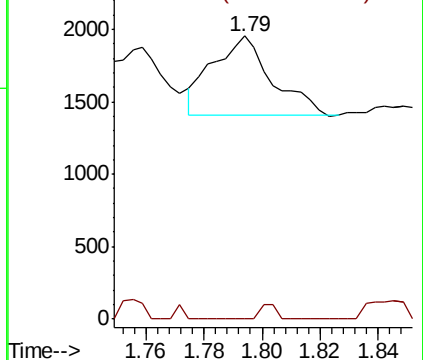
64 100

66 0.0 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0



#11

Tert butyl alcohol

Concen: 1.149 ug/l

RT: 2.83 min Scan# 516

Delta R.T. 0.00 min

Lab File: VU027204.D

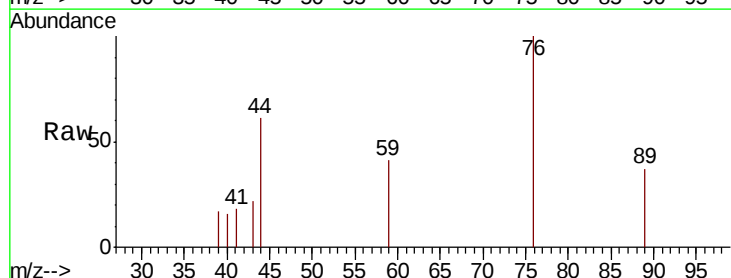
Acq: 27 Sep 2018 02:21

Tgt Ion: 59 Resp: 597

Ion Ratio Lower Upper

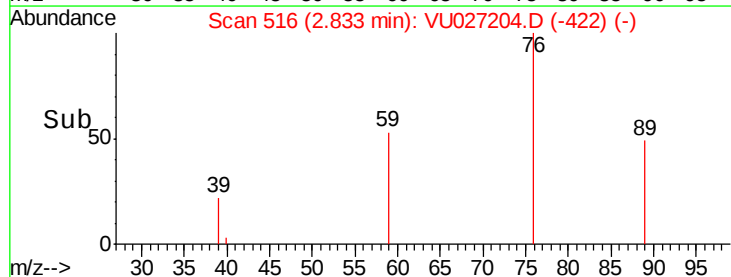
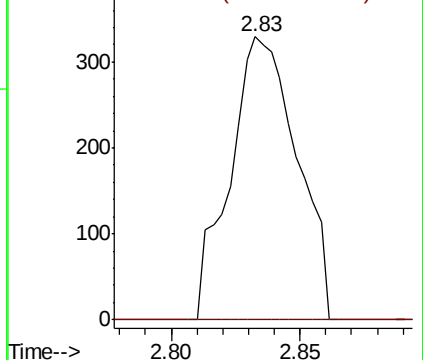
59 100

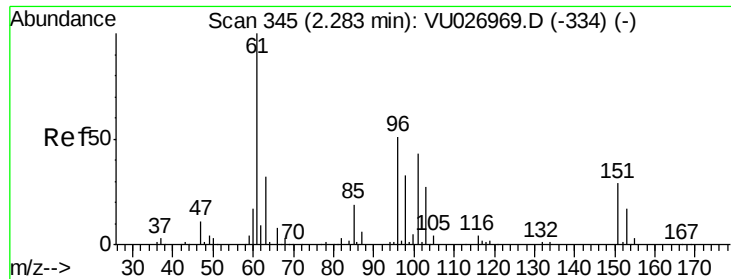
57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

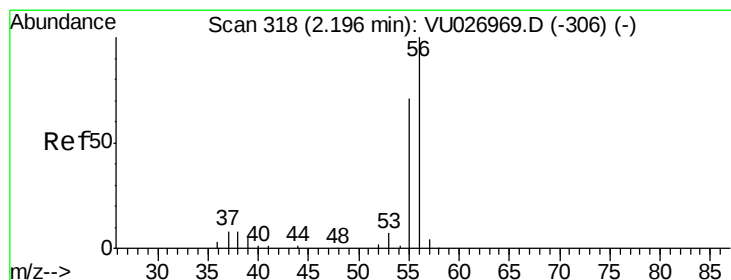
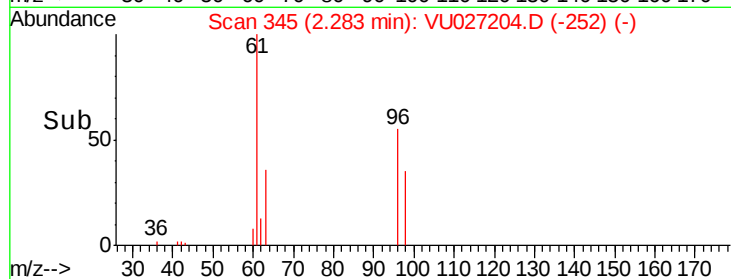
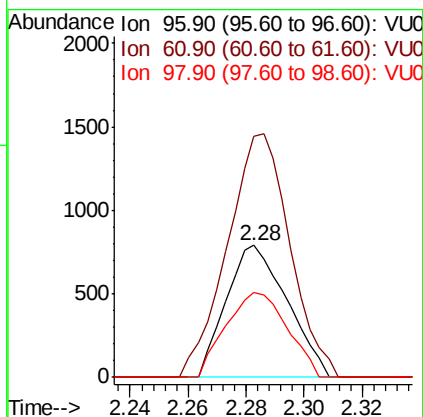
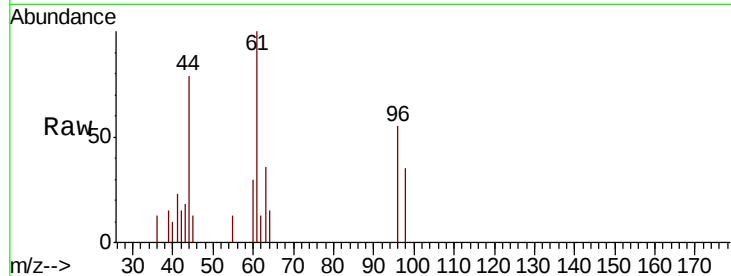




#12
 1,1-Dichloroethene
 Concen: 0.738 ug/l
 RT: 2.28 min Scan# 345
 Delta R.T. 0.00 min
 Lab File: VU027204.D
 Acq: 27 Sep 2018 02:21

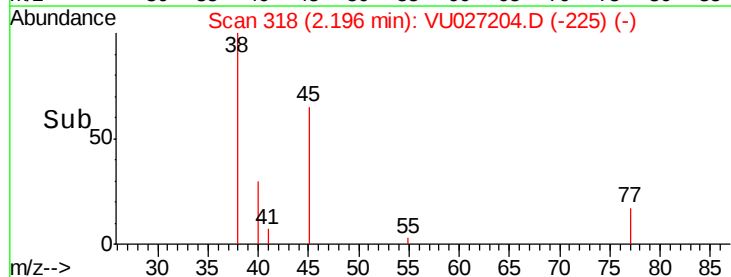
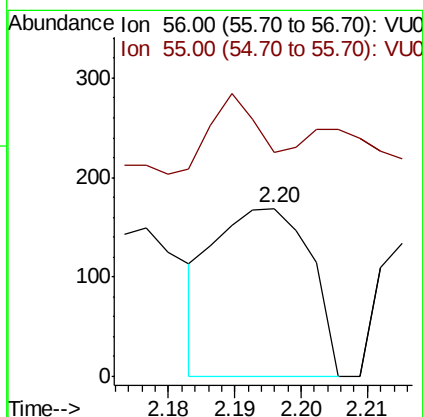
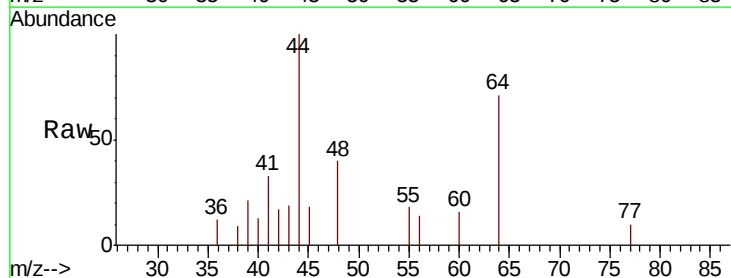
Instrument :
 MSVOA_U
 ClientSampleId :
 MW-83-SEP18

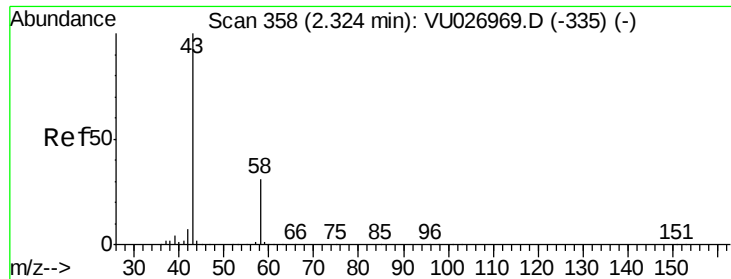
Tgt Ion: 96 Resp: 1148
 Ion Ratio Lower Upper
 96 100
 61 182.7 156.1 234.1
 98 64.2 51.4 77.0



#13
 Acrolein
 Concen: 0.607 ug/l
 RT: 2.20 min Scan# 318
 Delta R.T. 0.00 min
 Lab File: VU027204.D
 Acq: 27 Sep 2018 02:21

Tgt Ion: 56 Resp: 170
 Ion Ratio Lower Upper
 56 100
 55 25.3 57.1 85.7#





#16

Acetone

Concen: Below Cal

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU027204.D

Acq: 27 Sep 2018 02:21

Instrument :

MSVOA_U

ClientSampleId :

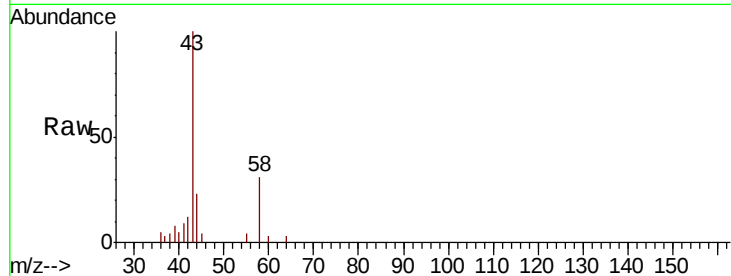
MW-83-SEP18

Tgt Ion: 43 Resp: 5699

Ion Ratio Lower Upper

43 100

58 32.5 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VU026969.D (-335) (-)

Ion 58.00 (57.70 to 58.70): VU026969.D (-335) (-)

2.32

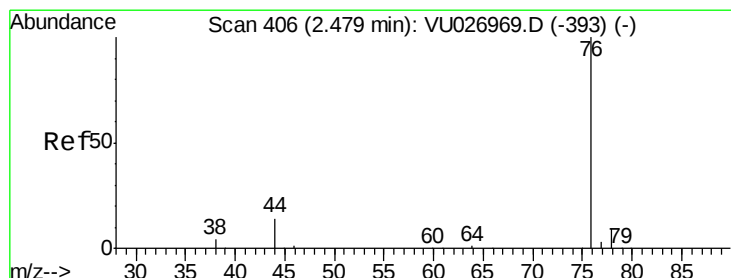
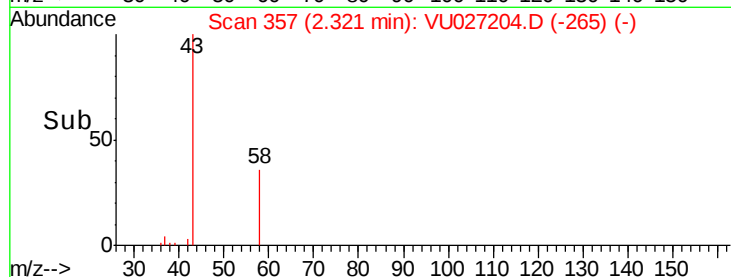
3000

2000

1000

0

Time--> 2.25 2.30 2.35 2.40



#17

Carbon Disulfide

Concen: 0.446 ug/l

RT: 2.48 min Scan# 407

Delta R.T. 0.00 min

Lab File: VU027204.D

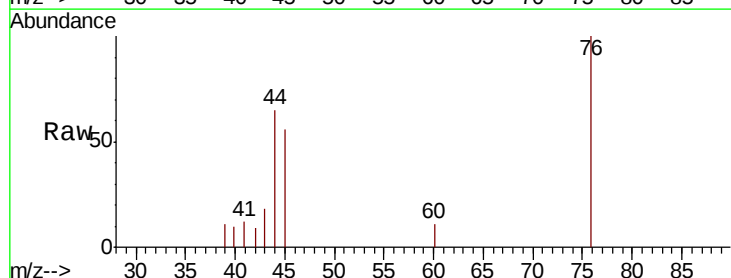
Acq: 27 Sep 2018 02:21

Tgt Ion: 76 Resp: 2258

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VU026969.D (-393) (-)

Ion 77.90 (77.60 to 78.60): VU026969.D (-393) (-)

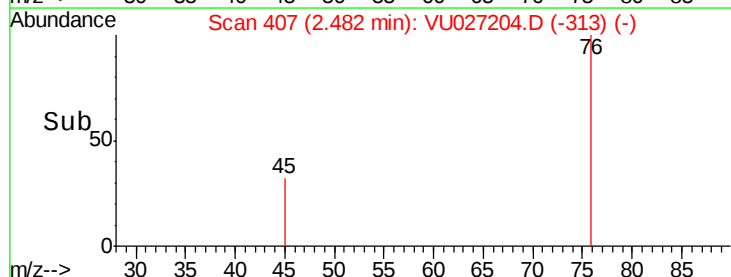
2.48

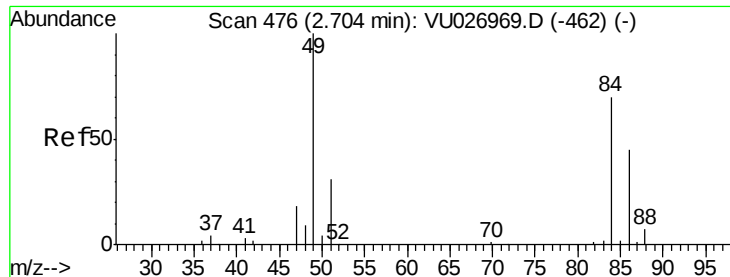
1000

500

0

Time--> 2.45 2.50 2.55



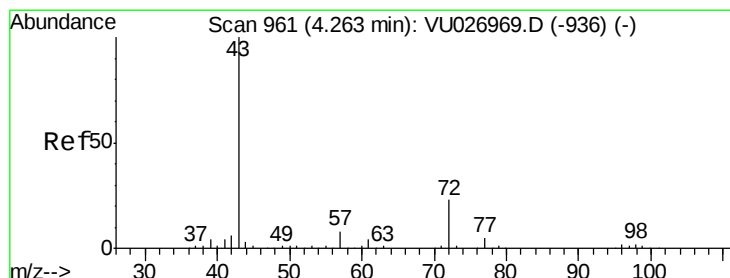
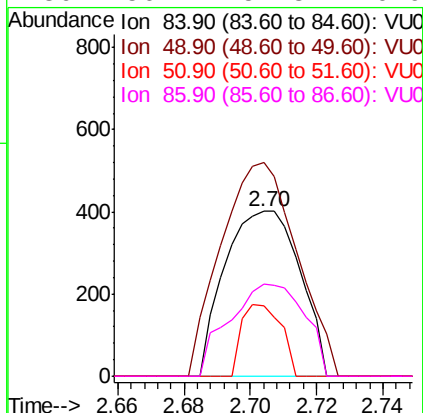
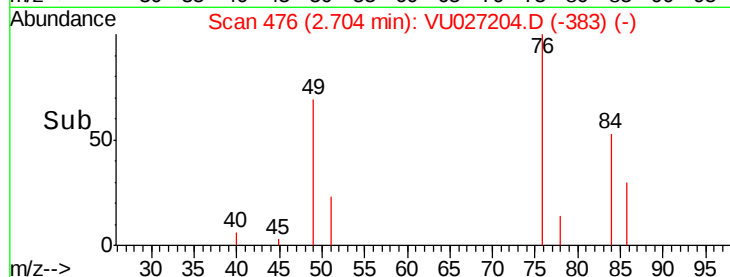
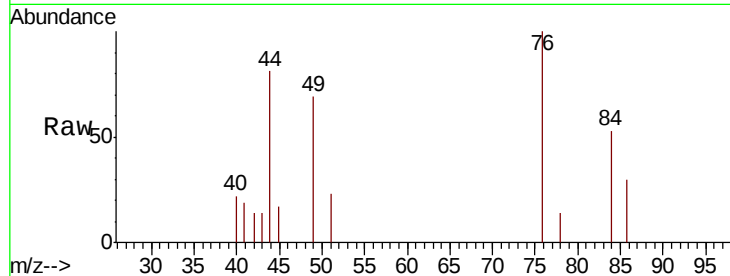


#20
Methylene Chloride
Concen: 0.311 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU027204.D
Acq: 27 Sep 2018 02:21

Instrument :
MSVOA_U
ClientSampleId :
MW-83-SEP18

Tgt Ion: 84 Resp: 632

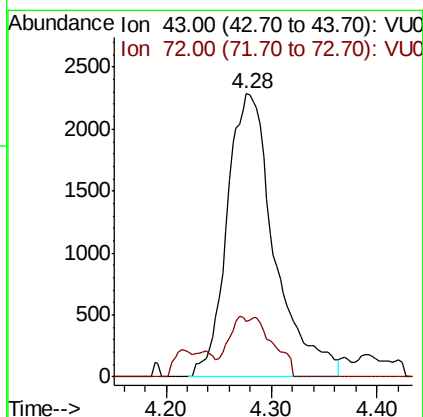
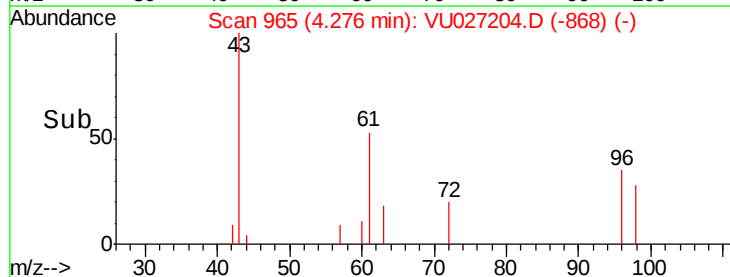
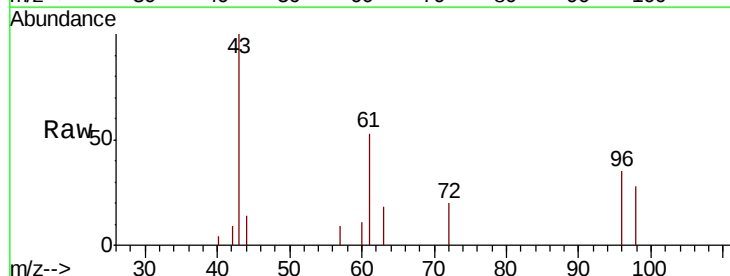
Ion	Ratio	Lower	Upper
84	100		
49	129.7	114.9	172.3
51	42.4	35.8	53.8
86	56.1	51.3	76.9

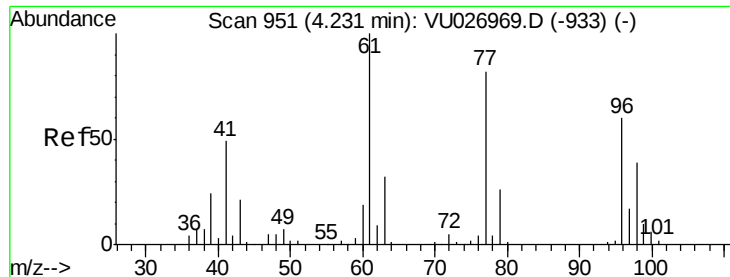


#25
2-Butanone
Concen: 3.753 ug/l
RT: 4.28 min Scan# 965
Delta R.T. 0.01 min
Lab File: VU027204.D
Acq: 27 Sep 2018 02:21

Tgt Ion: 43 Resp: 7149

Ion	Ratio	Lower	Upper
43	100		
72	19.8	18.4	27.6



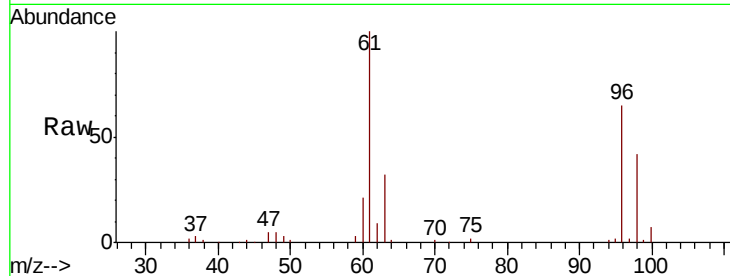


#27

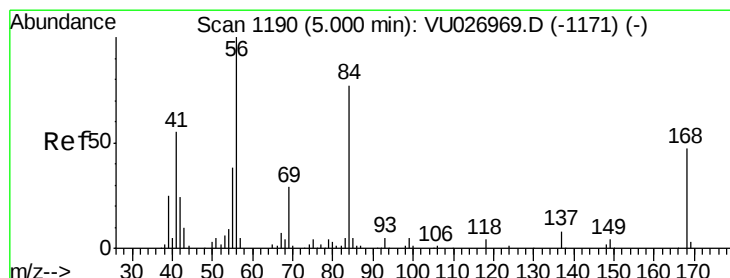
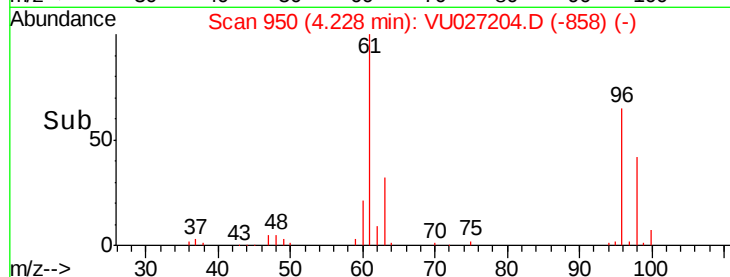
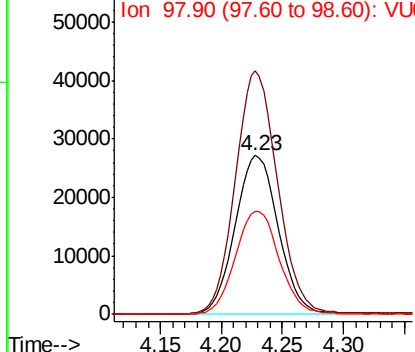
cis-1,2-Dichloroethene
Concen: 35.491 ug/l
RT: 4.23 min Scan# 950
Delta R.T. -0.00 min
Lab File: VU027204.D
Acq: 27 Sep 2018 02:21

Instrument :
MSVOA_U
ClientSampleId :
MW-83-SEP18

Tgt Ion: 96 Resp: 66559
Ion Ratio Lower Upper
96 100
61 150.4 0.0 337.2
98 66.0 0.0 127.6



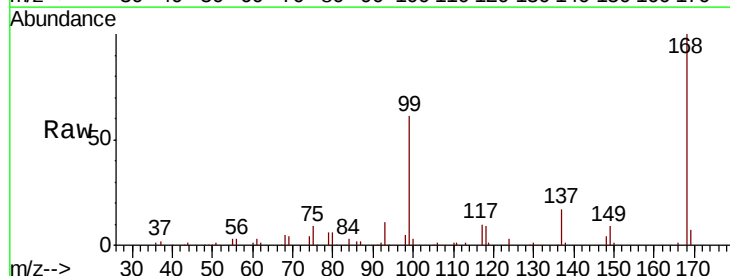
Abundance Ion 95.90 (95.60 to 96.60): VU0
Ion 60.90 (60.60 to 61.60): VU0
Ion 97.90 (97.60 to 98.60): VU0



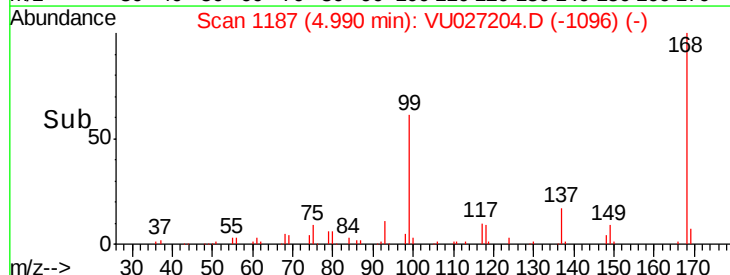
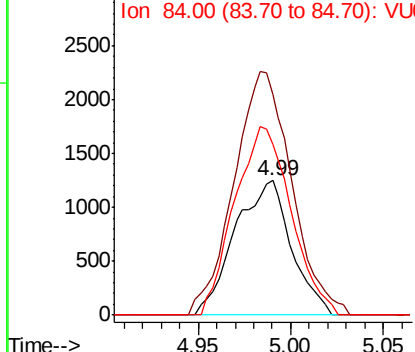
#31

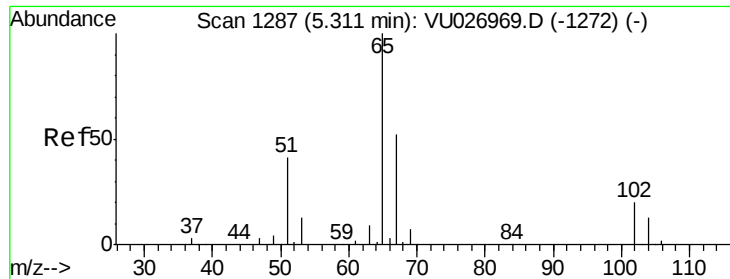
Cyclohexane
Concen: 0.211 ug/l
RT: 4.99 min Scan# 1187
Delta R.T. -0.01 min
Lab File: VU027204.D
Acq: 27 Sep 2018 02:21

Tgt Ion: 56 Resp: 2646
Ion Ratio Lower Upper
56 100
69 164.7 23.0 34.4#
84 127.4 61.4 92.2#



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

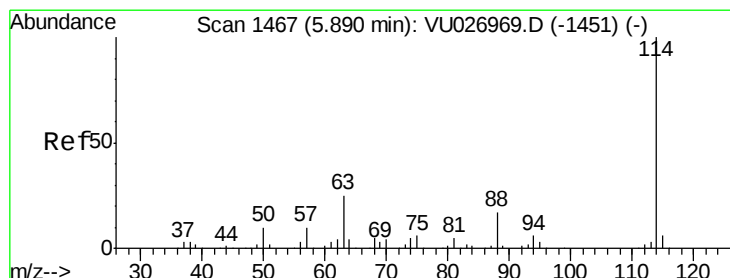
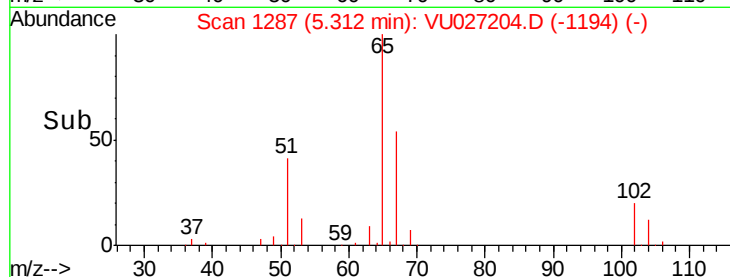
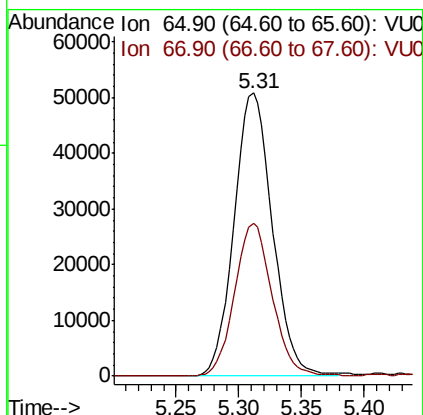
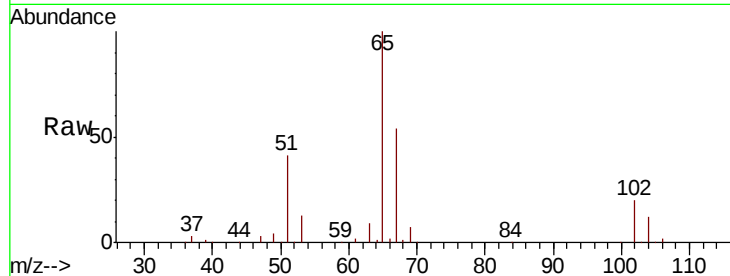




#33
 1,2-Dichloroethane-d4
 Concen: 47.604 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. 0.00 min
 Lab File: VU027204.D
 Acq: 27 Sep 2018 02:21

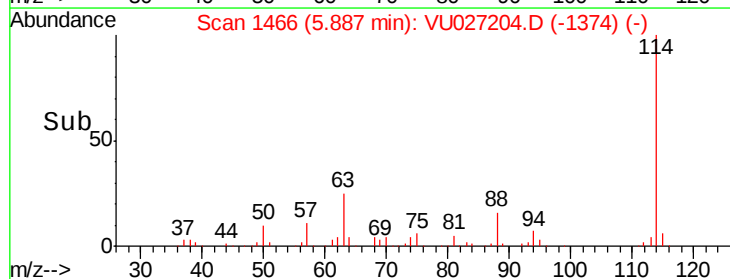
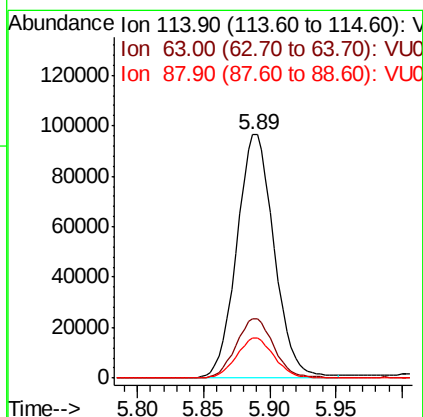
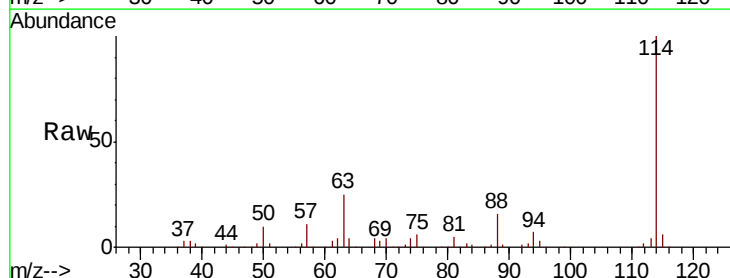
Instrument :
 MSVOA_U
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 MW-83-SEP18

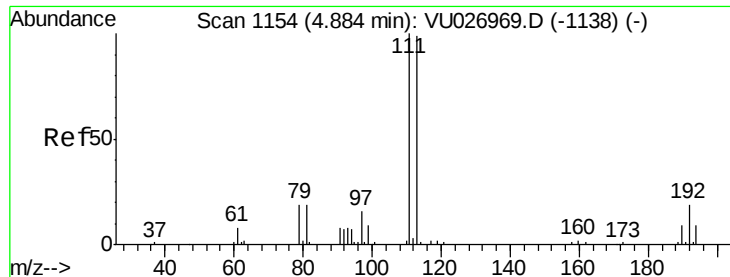
Tgt Ion: 65 Resp: 107898
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. -0.00 min
 Lab File: VU027204.D
 Acq: 27 Sep 2018 02:21

Tgt Ion: 114 Resp: 189082
 Ion Ratio Lower Upper
 114 100
 63 24.5 0.0 49.2
 88 16.4 0.0 33.8

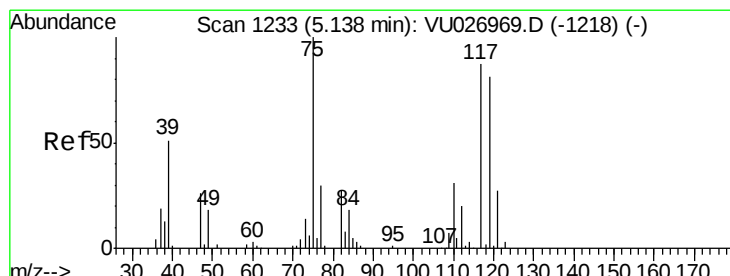
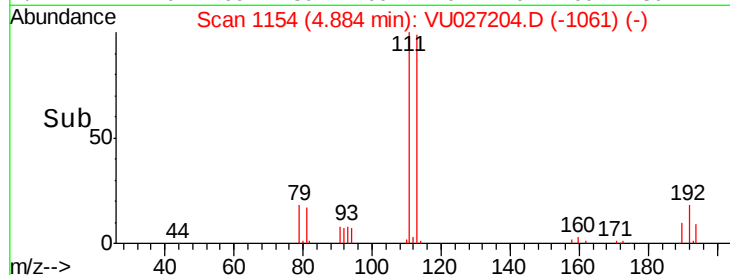
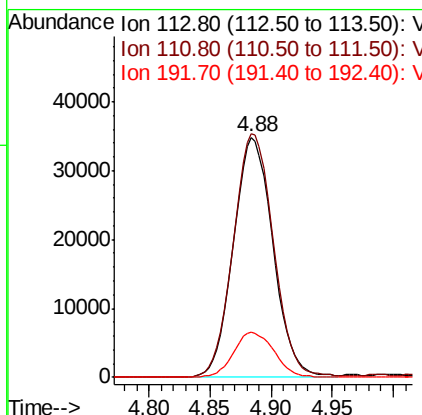
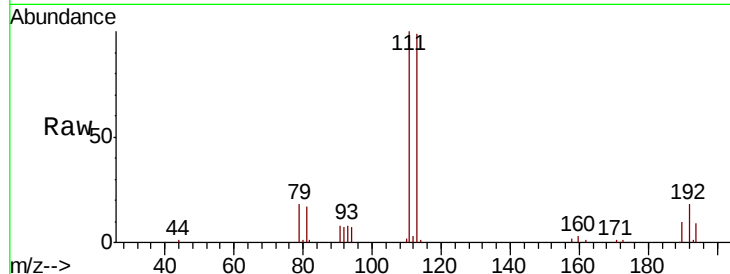




#35
 Dibromofluoromethane
 Concen: 47.938 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. 0.00 min
 Lab File: VU027204.D
 Acq: 27 Sep 2018 02:21

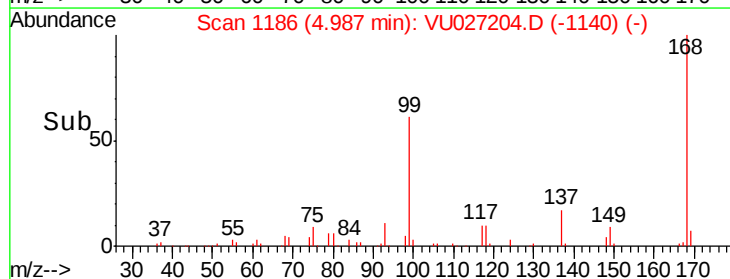
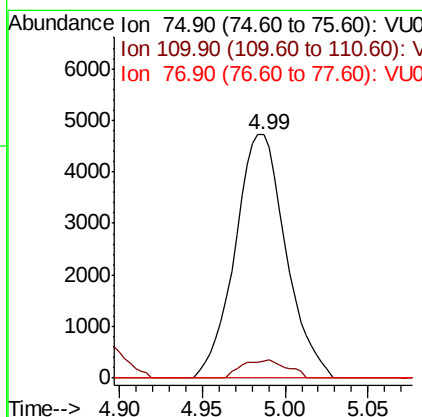
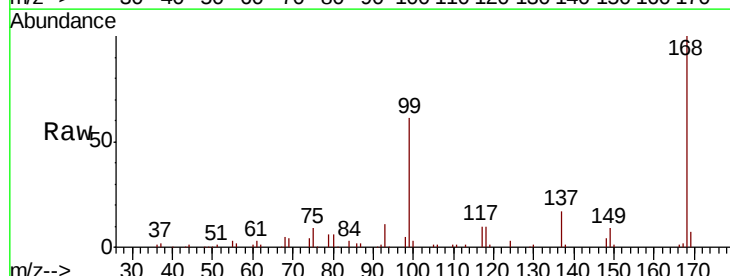
Instrument :
 MSVOA_U
 ClientSampleId :
 MW-83-SEP18

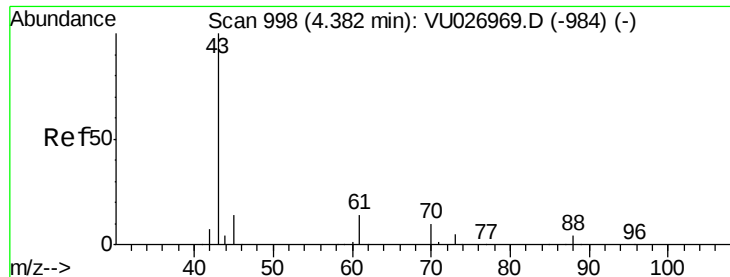
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.2	123.4
192	19.2	15.2	22.8



#36
 1,1-Dichloropropene
 Concen: 3.988 ug/l
 RT: 4.99 min Scan# 1186
 Delta R.T. -0.15 min
 Lab File: VU027204.D
 Acq: 27 Sep 2018 02:21

Tgt Ion	Ratio	Lower	Upper
75	100		
110	6.6	16.1	48.2#
77	0.0	24.6	36.8#





#37

Ethyl Acetate

Concen: 2.093 ug/l

RT: 4.28 min Scan# 965

Delta R.T. -0.11 min

Lab File: VU027204.D

Acq: 27 Sep 2018 02:21

Instrument :

MSVOA_U

ClientSampleId :

MW-83-SEP18

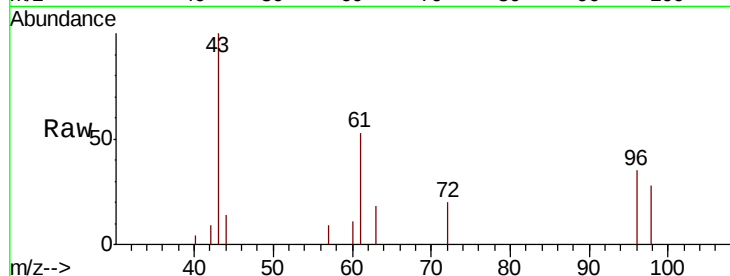
Tgt Ion: 43 Resp: 7149

Ion Ratio Lower Upper

43 100

61 0.0 10.5 15.7#

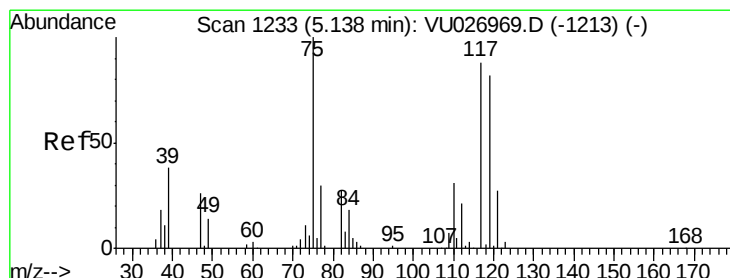
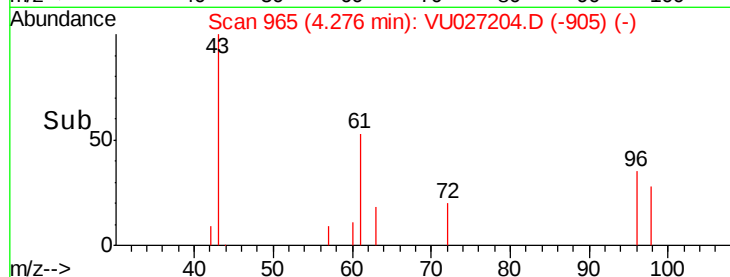
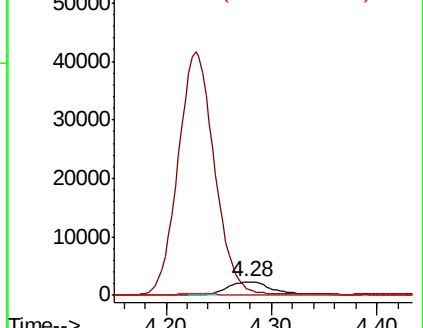
70 0.0 7.4 11.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 70.00 (69.70 to 70.70): VU0



#38

Carbon Tetrachloride

Concen: 4.795 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.15 min

Lab File: VU027204.D

Acq: 27 Sep 2018 02:21

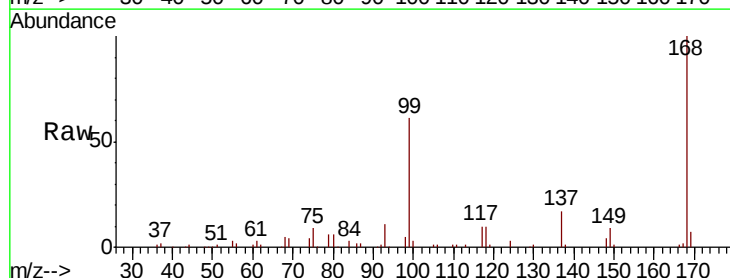
Tgt Ion: 117 Resp: 11514

Ion Ratio Lower Upper

117 100

119 6.8 74.4 111.6#

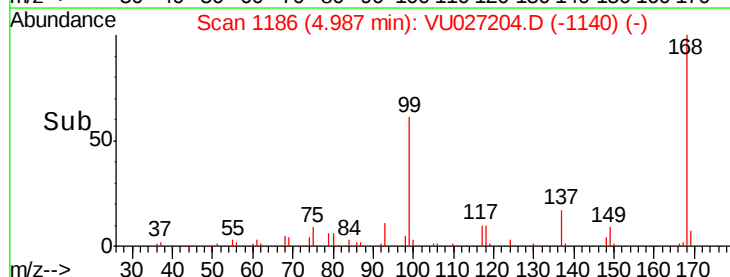
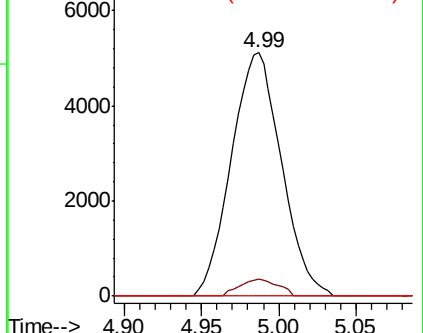
121 0.0 24.2 36.4#

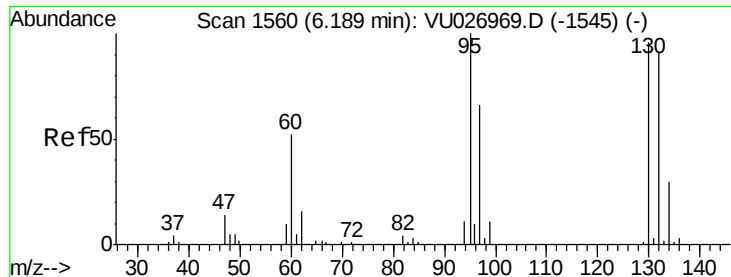


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 21.783 ug/l

RT: 6.19 min Scan# 1560

Delta R.T. 0.00 min

Lab File: VU027204.D

Acq: 27 Sep 2018 02:21

Instrument :

MSVOA_U

ClientSampleId :

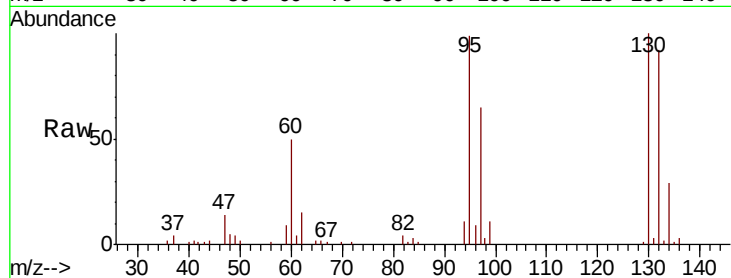
MW-83-SEP18

Tgt Ion:130 Resp: 35575

Ion Ratio Lower Upper

130 100

95 98.9 0.0 208.8



Abundance Ion 129.80 (129.50 to 130.50): VU026969.D (-1545) (-)

Ion 94.90 (94.60 to 95.60): VU026969.D (-1545) (-)

6.19

20000

15000

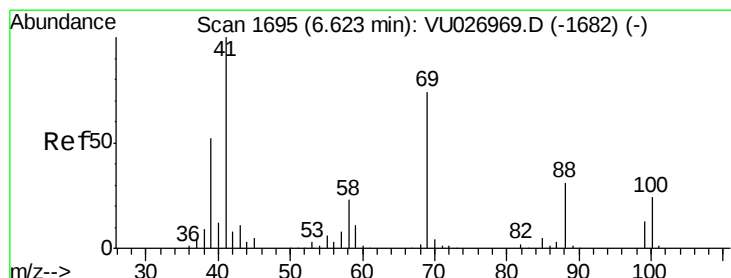
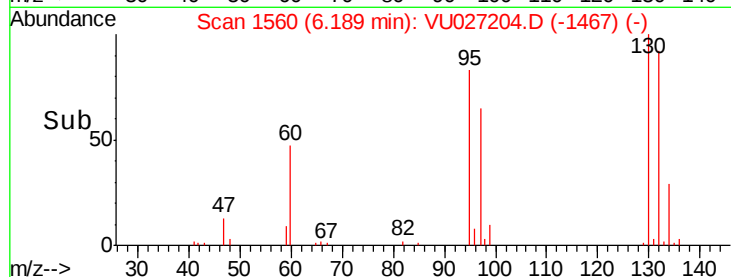
10000

5000

0

6.10 6.15 6.20 6.25

Time-->



#48

Methyl methacrylate

Concen: 1.035 ug/l

RT: 6.59 min Scan# 1684

Delta R.T. -0.03 min

Lab File: VU027204.D

Acq: 27 Sep 2018 02:21

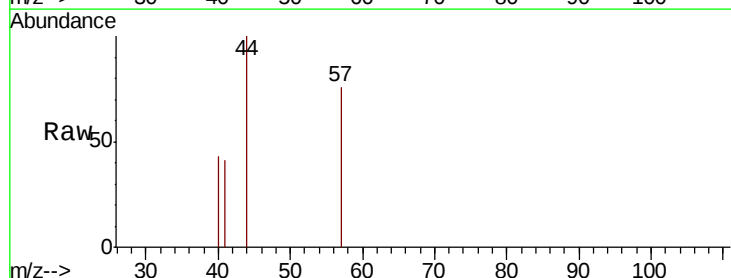
Tgt Ion: 41 Resp: 63

Ion Ratio Lower Upper

41 100

69 0.0 60.6 90.8#

39 0.0 42.8 64.2#



Abundance Ion 41.00 (40.70 to 41.70): VU026969.D (-1682) (-)

Ion 69.00 (68.70 to 69.70): VU026969.D (-1682) (-)

Ion 39.00 (38.70 to 39.70): VU026969.D (-1682) (-)

6.59

150

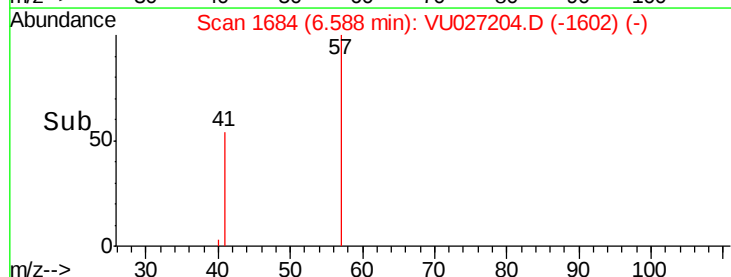
100

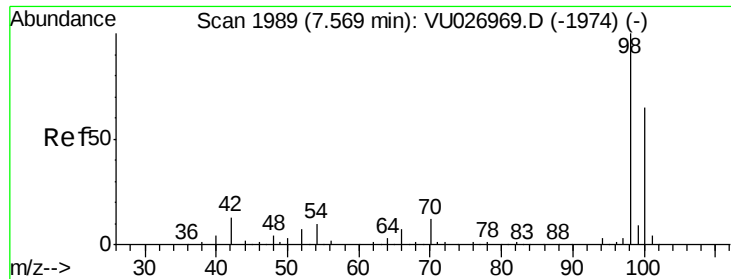
50

0

6.58 6.59 6.60

Time-->

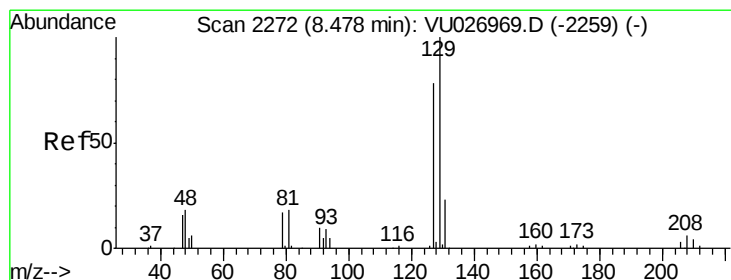
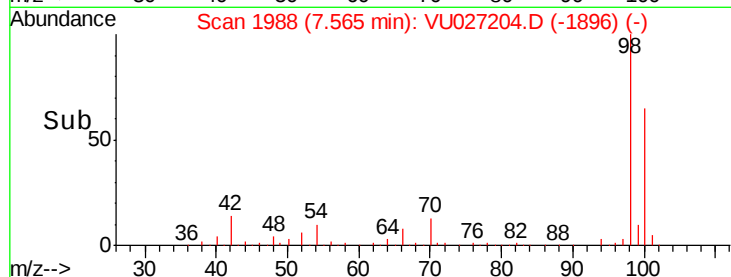
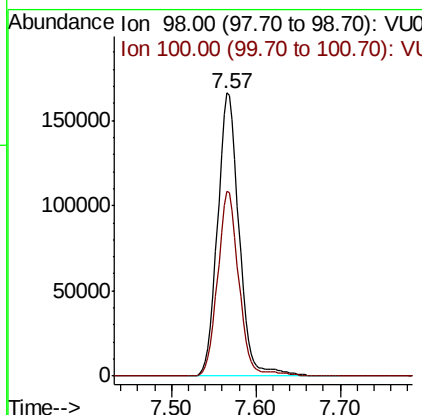
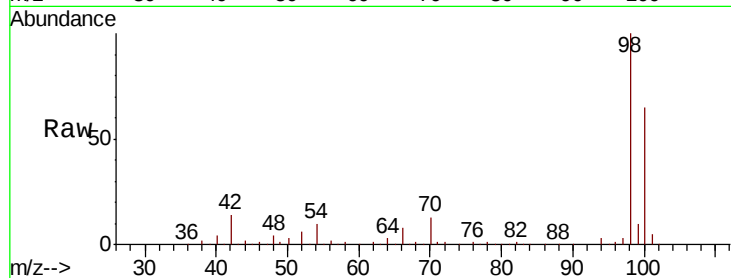




#50
Toluene-d8
Concen: 47.246 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VU027204.D
Acq: 27 Sep 2018 02:21

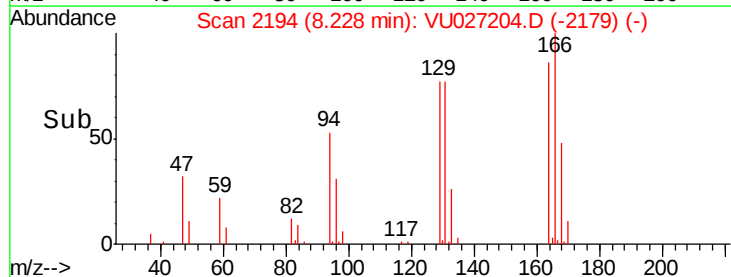
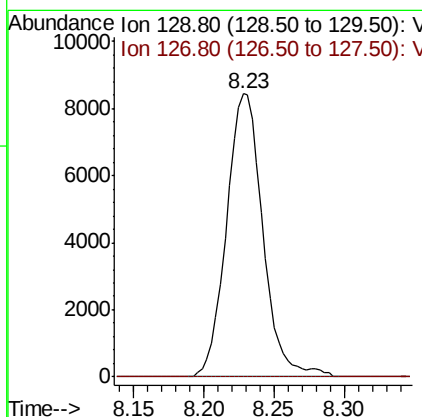
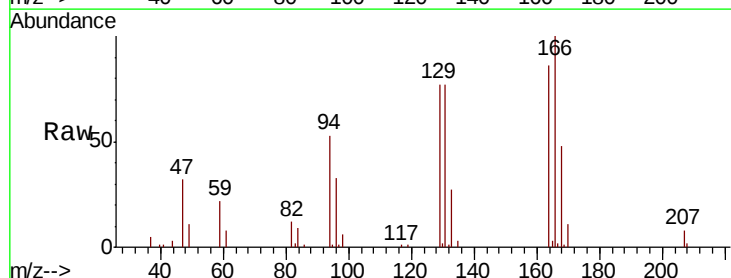
Instrument :
MSVOA_U
ClientSampleId :
MW-83-SEP18

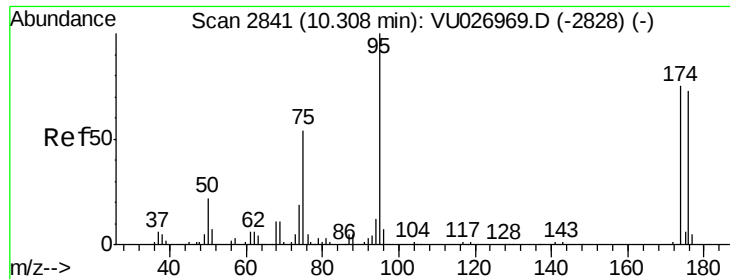
Tgt Ion: 98 Resp: 295107
Ion Ratio Lower Upper
98 100
100 64.7 52.1 78.1



#60
Dibromochloromethane
Concen: 8.319 ug/l
RT: 8.23 min Scan# 2194
Delta R.T. -0.25 min
Lab File: VU027204.D
Acq: 27 Sep 2018 02:21

Tgt Ion: 129 Resp: 15204
Ion Ratio Lower Upper
129 100
127 0.0 38.1 114.5#

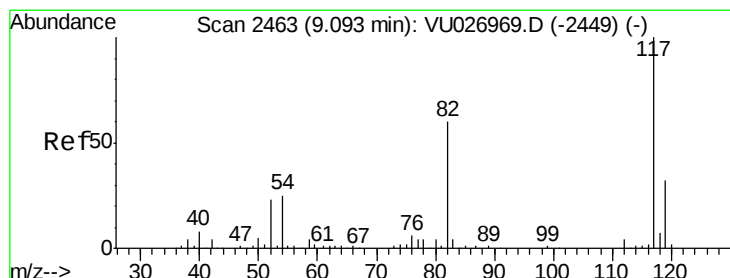
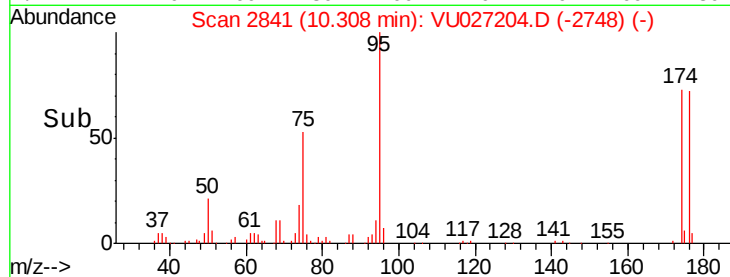
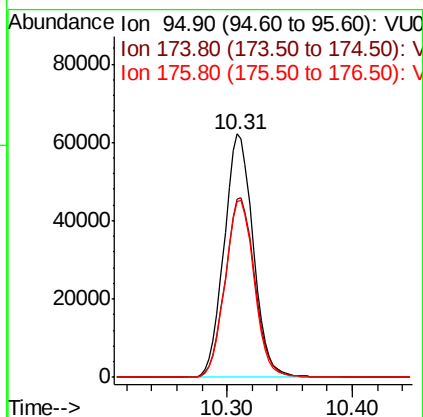
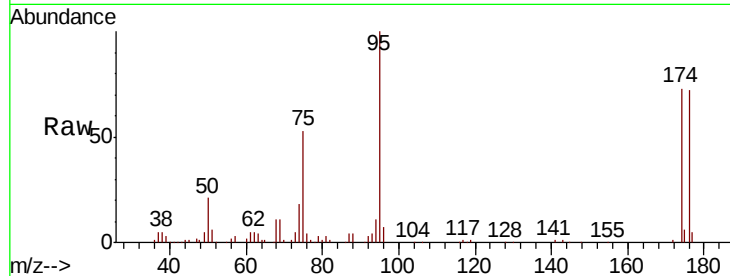




#62
 4-Bromofluorobenzene
 Concen: 46.607 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. 0.00 min
 Lab File: VU027204.D
 Acq: 27 Sep 2018 02:21

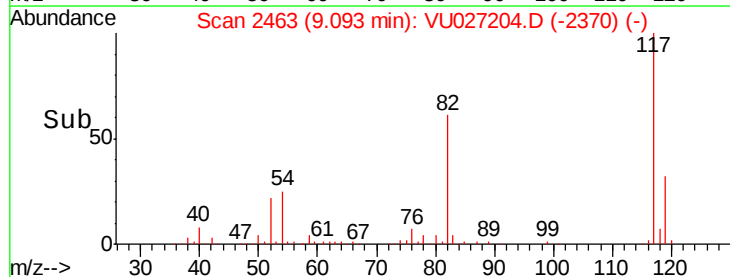
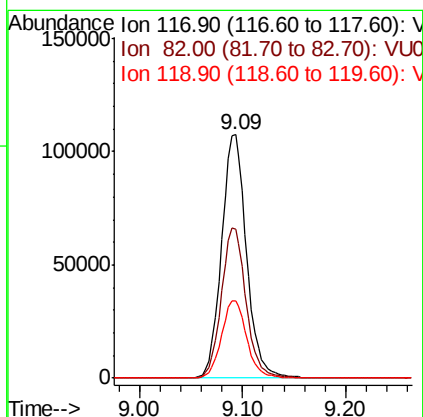
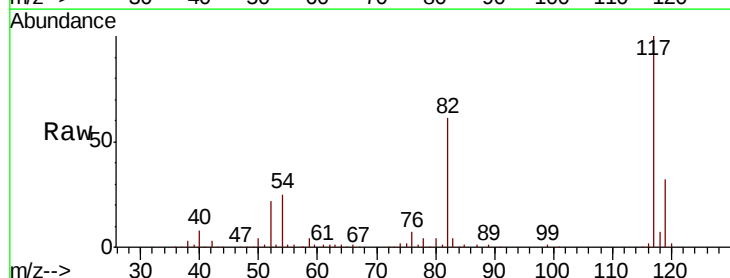
Instrument :
 MSVOA_U
 ClientSampleId :
 MW-83-SEP18

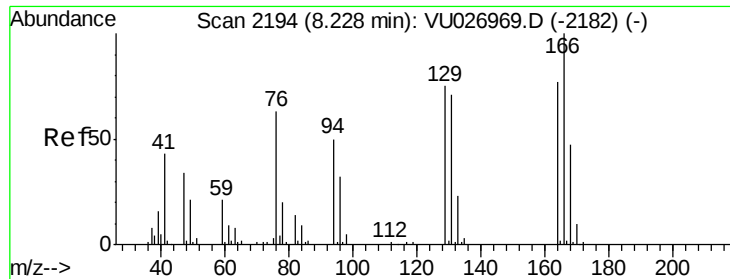
Tgt Ion: 95 Resp: 99891
 Ion Ratio Lower Upper
 95 100
 174 75.3 0.0 150.2
 176 72.7 0.0 145.2



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 9.09 min Scan# 2463
 Delta R.T. 0.00 min
 Lab File: VU027204.D
 Acq: 27 Sep 2018 02:21

Tgt Ion: 117 Resp: 181182
 Ion Ratio Lower Upper
 117 100
 82 61.2 48.0 72.0
 119 31.9 25.8 38.8

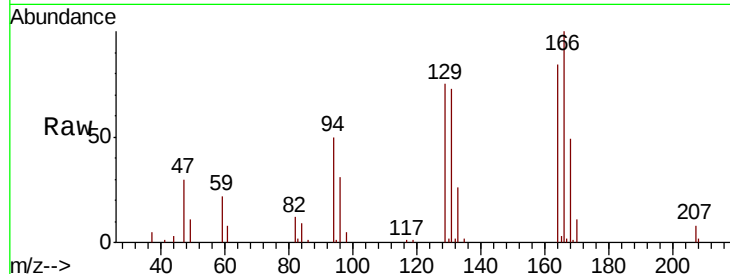




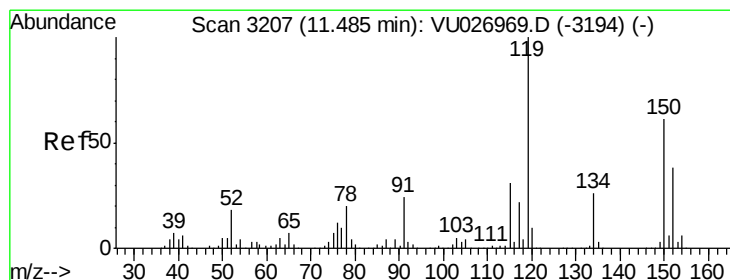
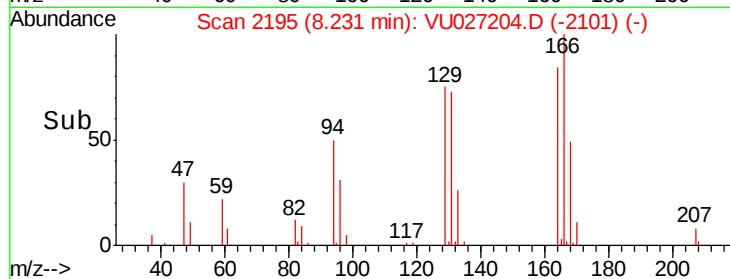
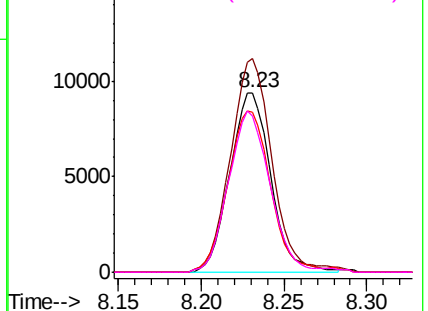
#64
Tetrachloroethene
Concen: 11.537 ug/l
RT: 8.23 min Scan# 2195
Delta R.T. 0.00 min
Lab File: VU027204.D
Acq: 27 Sep 2018 02:21

Instrument :
MSVOA_U
ClientSampleId :
MW-83-SEP18

Tgt Ion:164 Resp: 16107
Ion Ratio Lower Upper
164 100
166 118.9 104.4 156.6
129 89.2 78.7 118.1
131 87.2 73.9 110.9

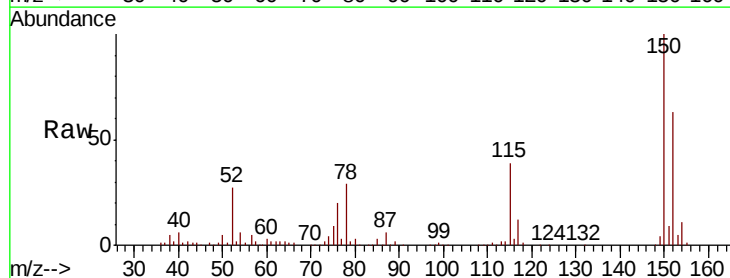


Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

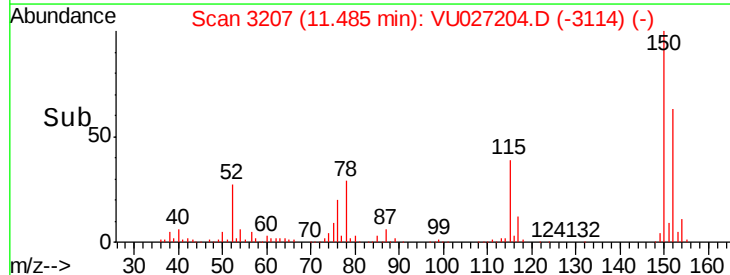
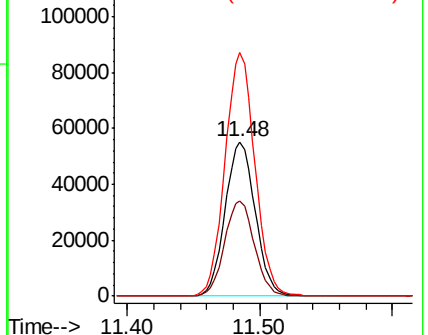


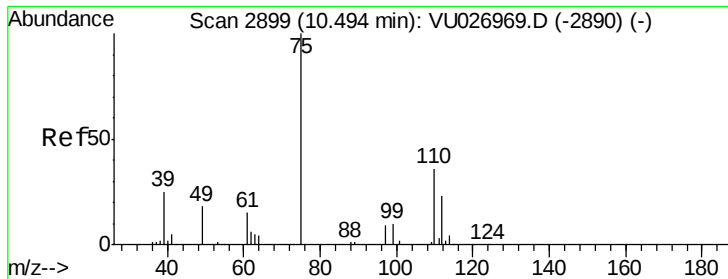
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3207
Delta R.T. 0.00 min
Lab File: VU027204.D
Acq: 27 Sep 2018 02:21

Tgt Ion:152 Resp: 87010
Ion Ratio Lower Upper
152 100
115 61.0 44.9 134.5
150 156.5 0.0 355.8



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: 19.883 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027204.D

Acq: 27 Sep 2018 02:21

Instrument :

MSVOA_U

ClientSampleId :

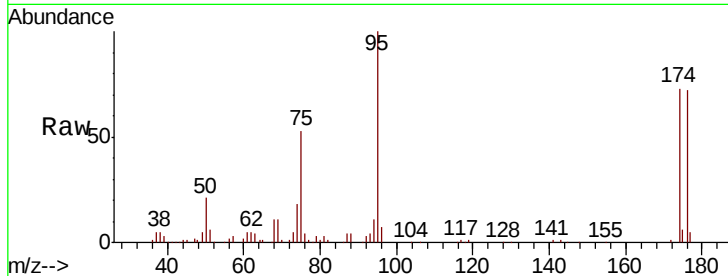
MW-83-SEP18

Tgt Ion: 75 Resp: 52557

Ion Ratio Lower Upper

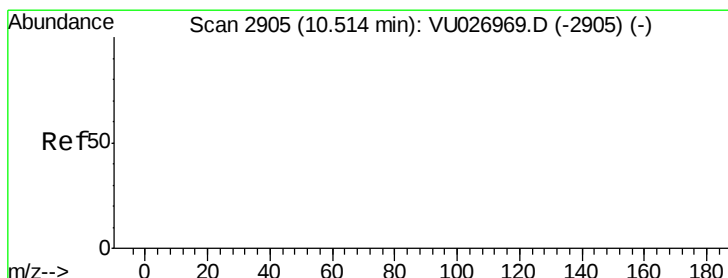
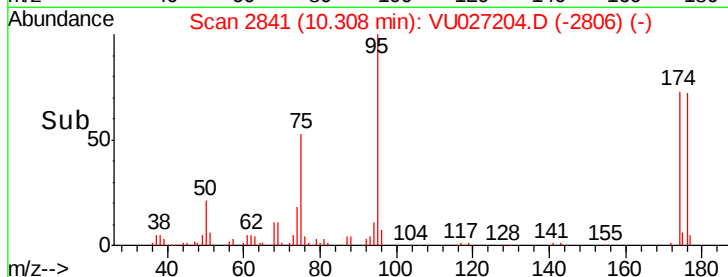
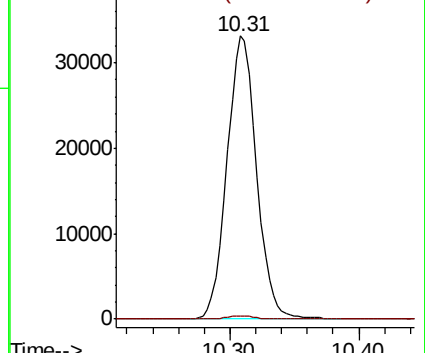
75 100

77 1.1 20.9 62.8#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0



#81

trans-1,4-Dichloro-2-butene

Concen: 63.628 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.21 min

Lab File: VU027204.D

Acq: 27 Sep 2018 02:21

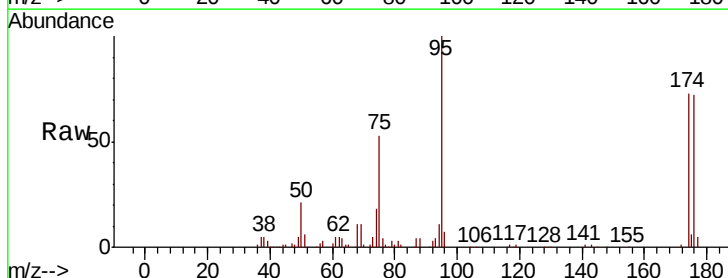
Tgt Ion: 75 Resp: 52557

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

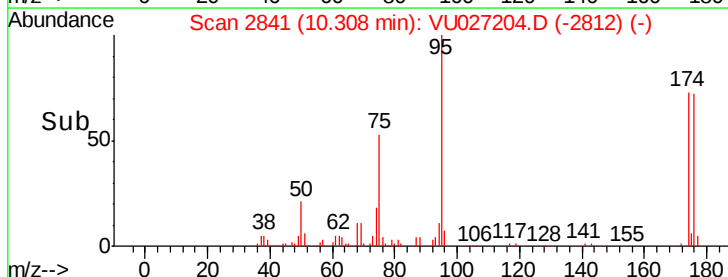
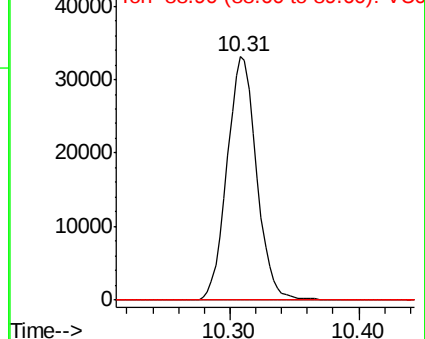
89 0.0 0.0 0.0

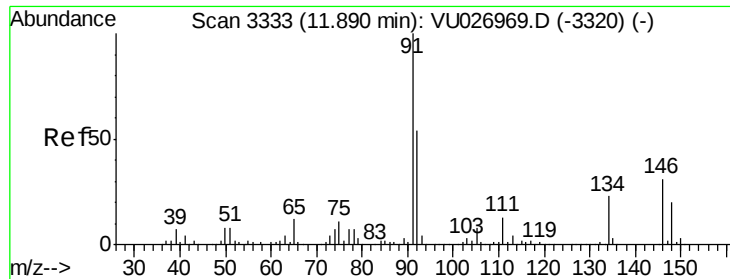


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0





#89

n-Butylbenzene

Concen: 2.419 ug/l

RT: 11.89 min Scan# 3334

Delta R.T. 0.00 min

Lab File: VU027204.D

Acq: 27 Sep 2018 02:21

Instrument :

MSVOA_U

ClientSampleId :

MW-83-SEP18

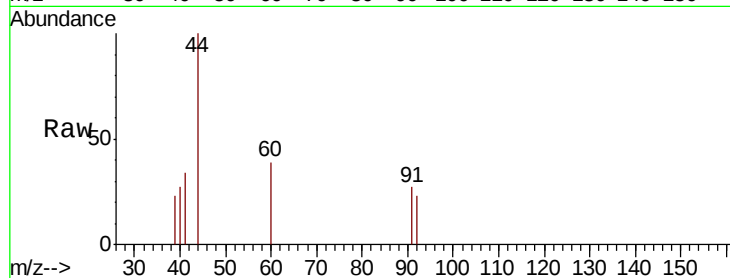
Tgt Ion: 91 Resp: 170

Ion Ratio Lower Upper

91 100

92 38.8 27.1 81.2

134 0.0 11.7 35.0#

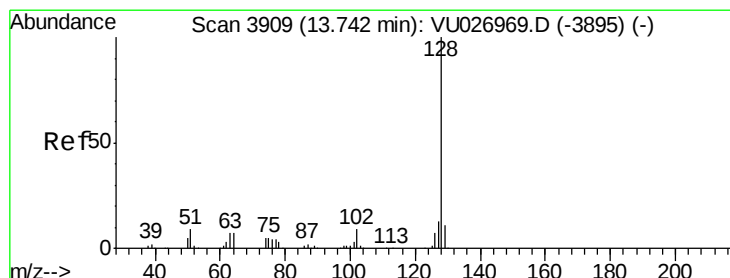
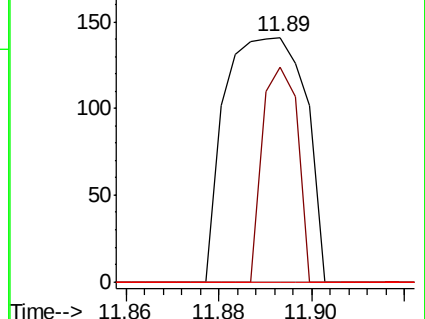
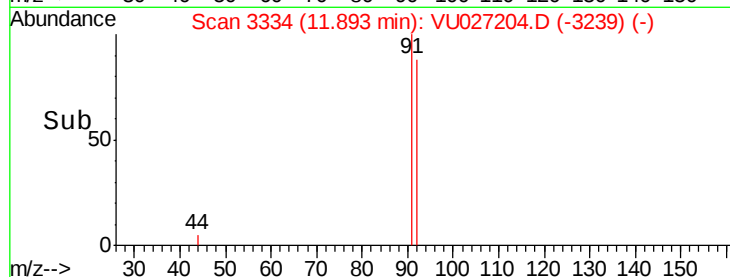


Abundance Ion 91.00 (90.70 to 91.70): VU026969.D (-3320) (-)

Ion 92.00 (91.70 to 92.70): VU026969.D (-3320) (-)

Ion 134.00 (133.70 to 134.70): VU026969.D (-3320) (-)

Time--> 11.86 11.88 11.90



#95

Naphthalene

Concen: 1.718 ug/l

RT: 13.75 min Scan# 3912

Delta R.T. 0.01 min

Lab File: VU027204.D

Acq: 27 Sep 2018 02:21

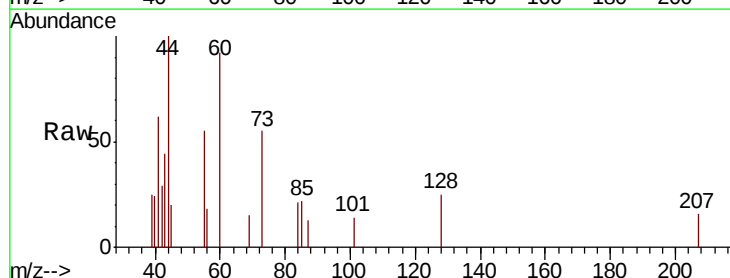
Tgt Ion: 128 Resp: 214

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): VU026969.D (-3895) (-)

Ion 127.00 (126.70 to 127.70): VU026969.D (-3895) (-)

Ion 129.00 (128.70 to 129.70): VU026969.D (-3895) (-)

Time--> 13.72 13.74 13.76

