

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU063018\
 Data File : VU025106.D
 Acq On : 30 Jun 2018 22:27
 Operator : MD/SY
 Sample : J3759-07
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021MW353-180626

Quant Time: Jul 02 05:42:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 13 13:55:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	211473	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	313302	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	292362	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	150330	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	159137	46.10	ug/l	0.00
Spiked Amount 50.000			Recovery =	92.20%		
35) Dibromofluoromethane	4.89	113	124246	47.78	ug/l	0.00
Spiked Amount 50.000			Recovery =	95.56%		
50) Toluene-d8	7.57	98	457075	48.19	ug/l	0.00
Spiked Amount 50.000			Recovery =	96.38%		
62) 4-Bromofluorobenzene	10.31	95	168374	44.71	ug/l	0.00
Spiked Amount 50.000			Recovery =	89.42%		

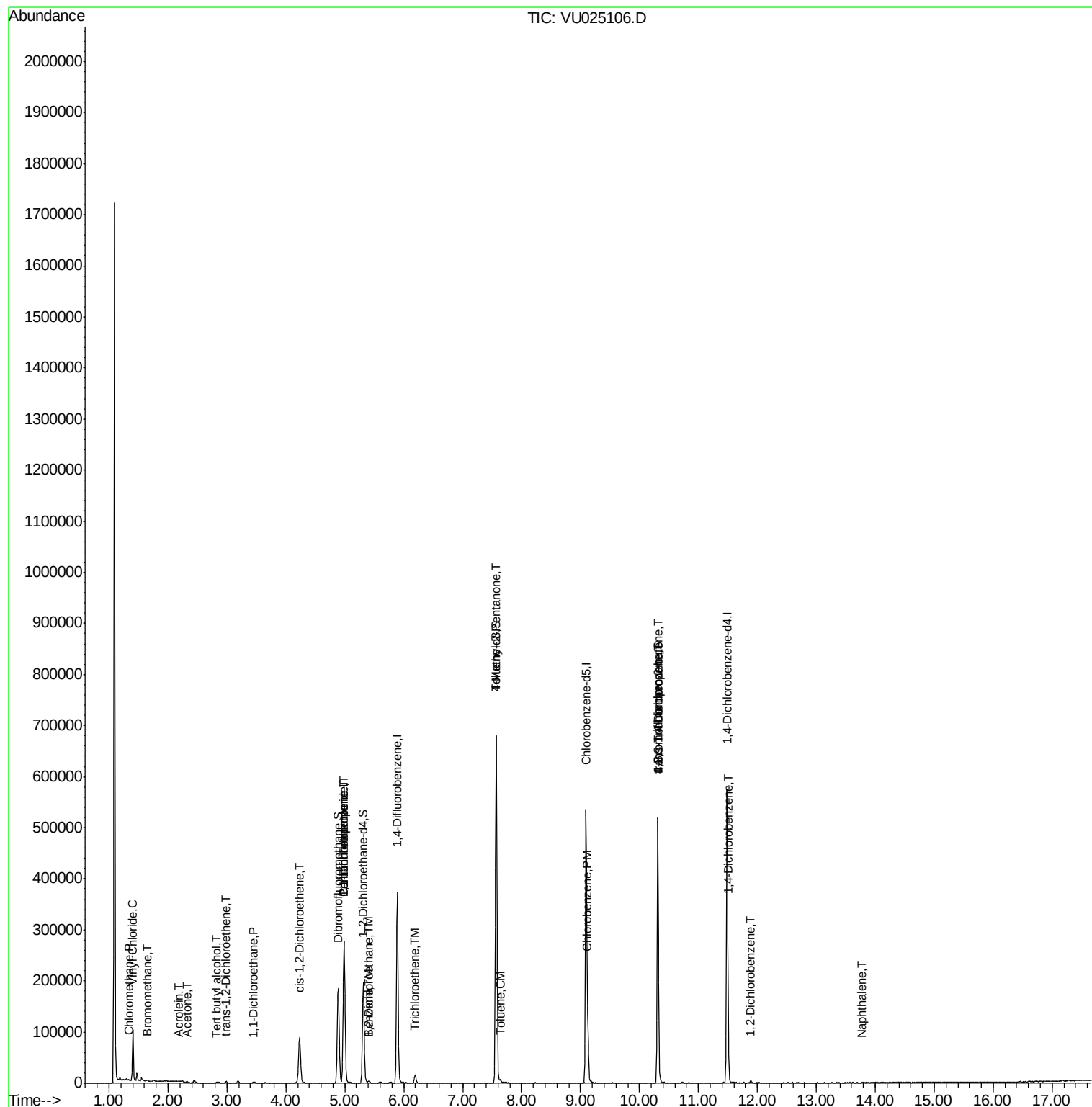
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	918	0.339	ug/l	98
4) Vinyl Chloride	1.40	62	60383	21.651	ug/l	97
5) Bromomethane	1.64	94	491	0.364	ug/l	90
11) Tert butyl alcohol	2.83	59	1279	1.523	ug/l #	72
13) Acrolein	2.19	56	241	0.547	ug/l #	1
16) Acetone	2.32	43	2547	1.373	ug/l	100
21) trans-1,2-Dichloroethene	2.98	96	1625	0.613	ug/l	91
24) 1,1-Dichloroethane	3.45	63	1620	0.318	ug/l #	83
27) cis-1,2-Dichloroethene	4.23	96	49457	16.221	ug/l	91
31) Cyclohexane	4.99	56	4201	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	15483	4.206	ug/l #	50
38) Carbon Tetrachloride	4.99	117	20871	5.155	ug/l #	17
40) Benzene	5.40	78	2253	0.215	ug/l	99
42) 1,2-Dichloroethane	5.41	62	1126	0.282	ug/l #	77
44) Trichloroethene	6.20	130	5809	1.946	ug/l	94
51) 4-Methyl-2-Pentanone	7.57	43	2343	0.538	ug/l #	1
52) Toluene	7.64	92	2345	0.347	ug/l	97
65) Chlorobenzene	9.12	112	58830	7.877	ug/l	99
76) 1,2,3-Trichloropropane	10.31	75	87683	26.493	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	87683	61.315	ug/l #	100
88) 1,4-Dichlorobenzene	11.51	146	2593	0.477	ug/l #	57
91) 1,2-Dichlorobenzene	11.89	146	2213	0.409	ug/l	95
95) Naphthalene	13.76	128	40	0.683	ug/l #	69

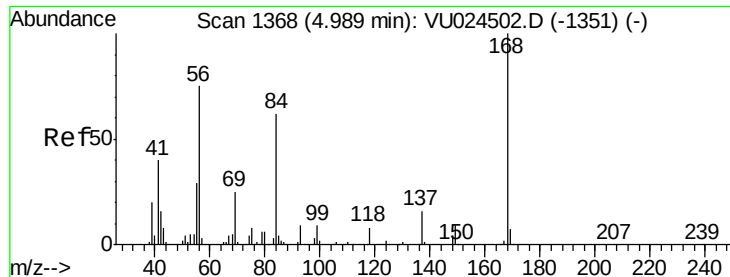
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025106.D

Acq: 30 Jun 2018 22:27

Instrument :

MSVOA_U

ClientSampleId :

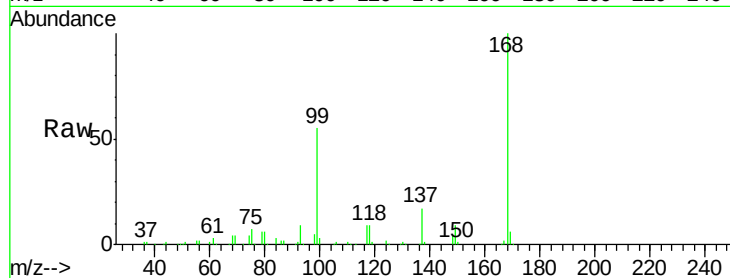
WP021MW353-180626

Tgt Ion:168 Resp: 211473

Ion Ratio Lower Upper

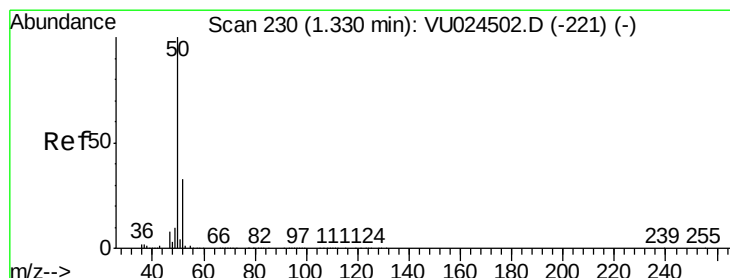
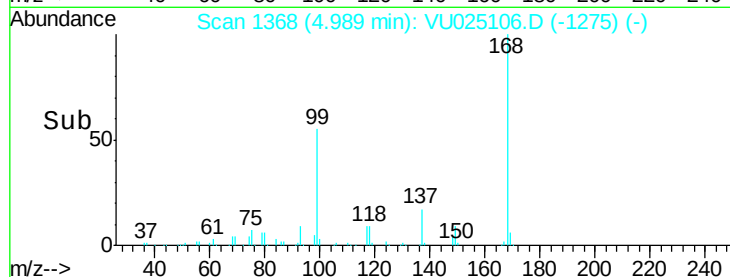
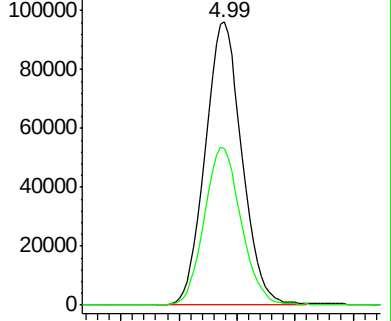
168 100

99 55.4 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VU0



#3

Chloromethane

Concen: 0.339 ug/l

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU025106.D

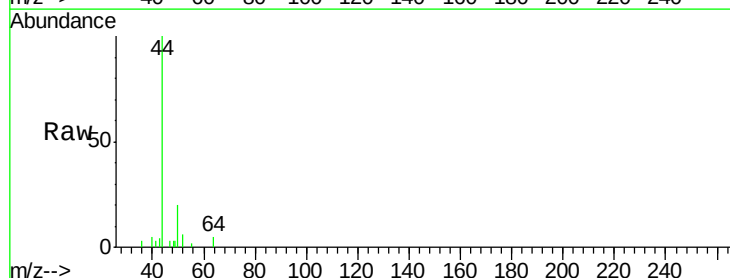
Acq: 30 Jun 2018 22:27

Tgt Ion: 50 Resp: 918

Ion Ratio Lower Upper

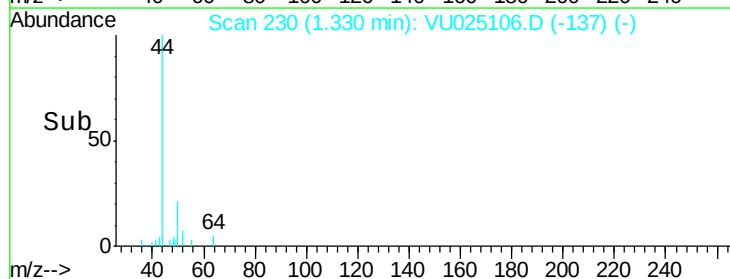
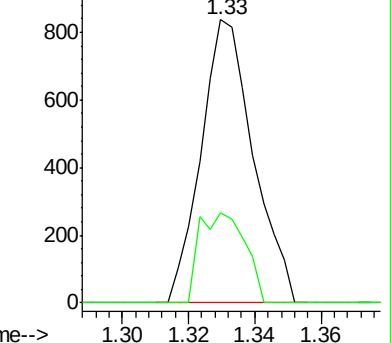
50 100

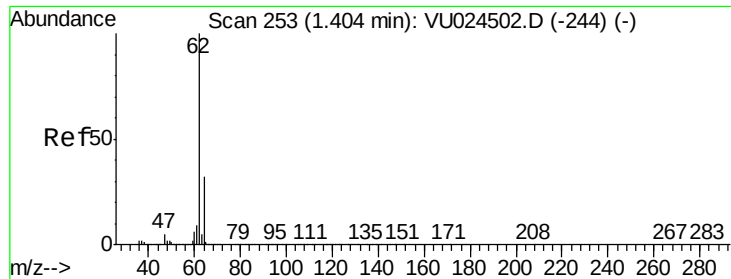
52 31.8 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VU0

Ion 51.90 (51.60 to 52.60): VU0





#4

Vinyl Chloride

Concen: 21.651 ug/l

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU025106.D

Acq: 30 Jun 2018 22:27

Instrument :

MSVOA_U

ClientSampleId :

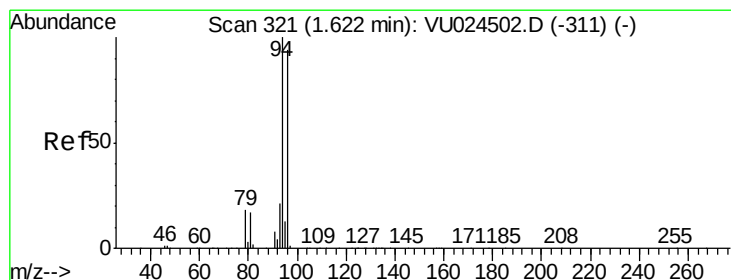
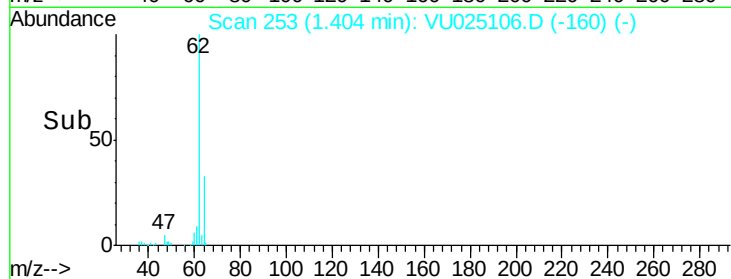
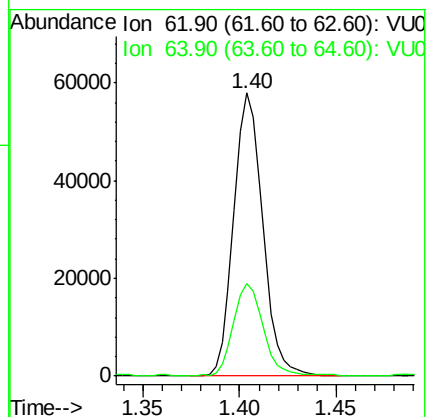
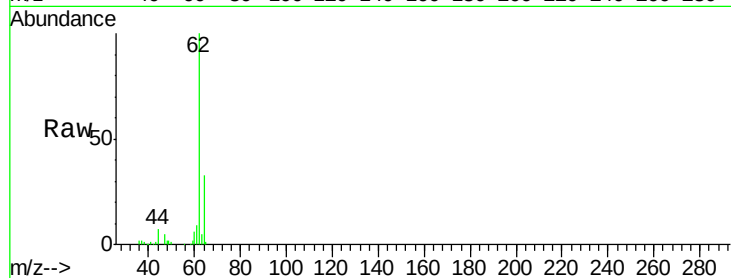
WP021MW353-180626

Tgt Ion: 62 Resp: 60383

Ion Ratio Lower Upper

62 100

64 32.7 24.8 37.2



#5

Bromomethane

Concen: 0.364 ug/l

RT: 1.64 min Scan# 327

Delta R.T. 0.02 min

Lab File: VU025106.D

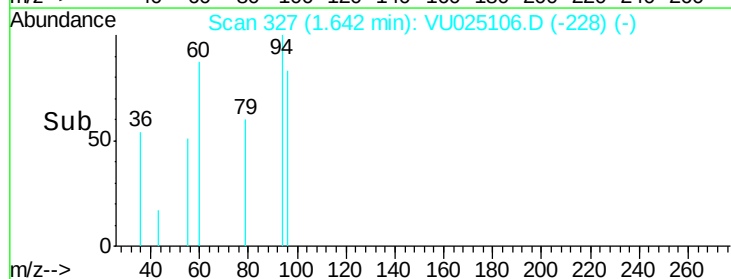
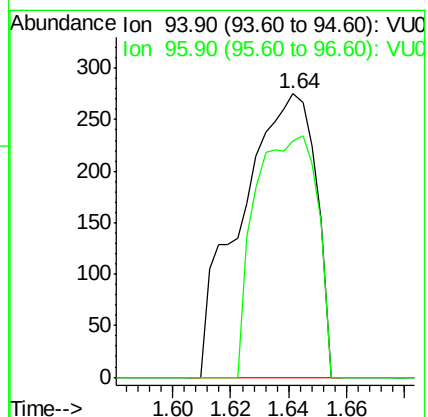
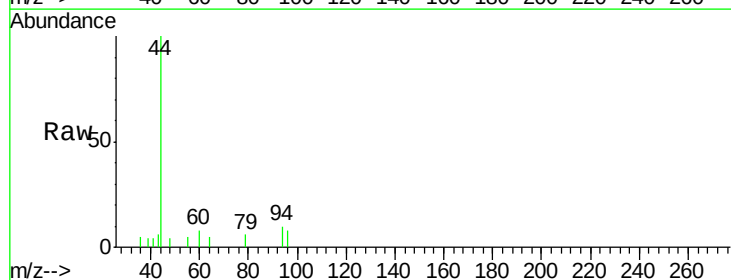
Acq: 30 Jun 2018 22:27

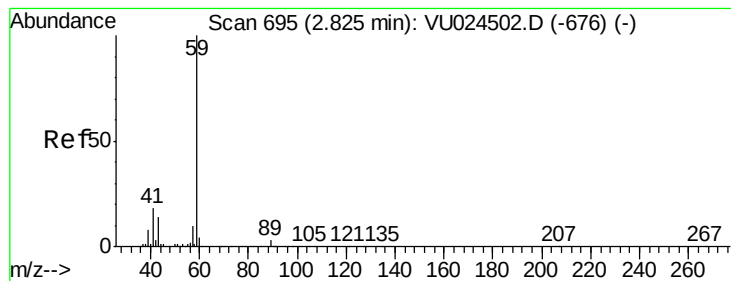
Tgt Ion: 94 Resp: 491

Ion Ratio Lower Upper

94 100

96 83.3 74.5 111.7





#11

Tert butyl alcohol

Concen: 1.523 ug/l

RT: 2.83 min Scan# 698

Delta R.T. 0.01 min

Lab File: VU025106.D

Acq: 30 Jun 2018 22:27

Instrument :

MSVOA_U

ClientSampleId :

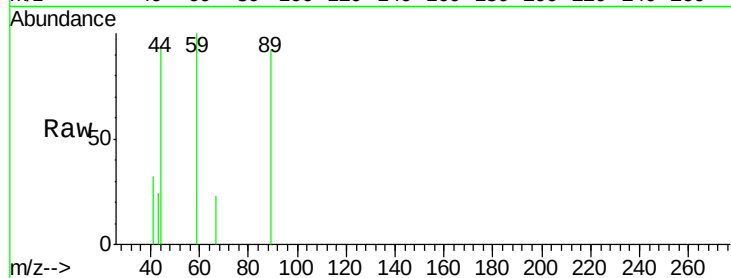
WP021MW353-180626

Tgt Ion: 59 Resp: 1279

Ion Ratio Lower Upper

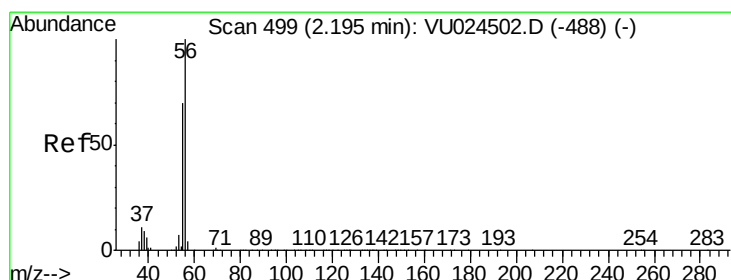
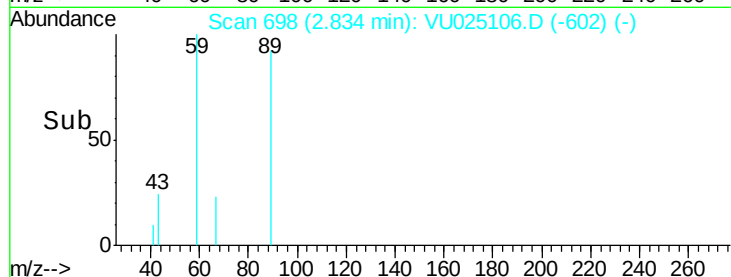
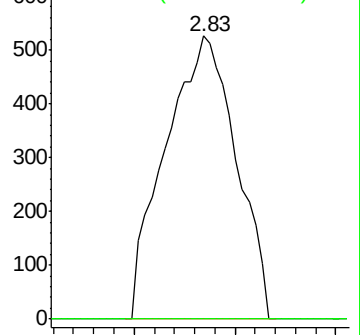
59 100

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



#13

Acrolein

Concen: 0.547 ug/l

RT: 2.19 min Scan# 499

Delta R.T. 0.00 min

Lab File: VU025106.D

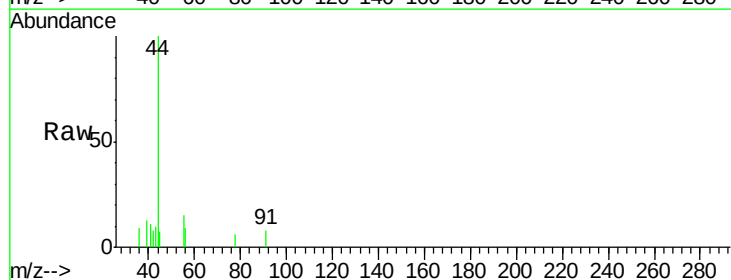
Acq: 30 Jun 2018 22:27

Tgt Ion: 56 Resp: 241

Ion Ratio Lower Upper

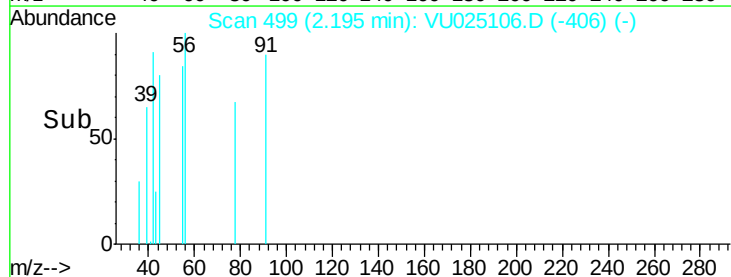
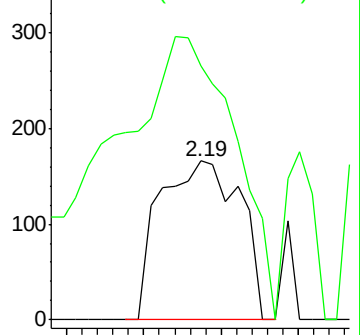
56 100

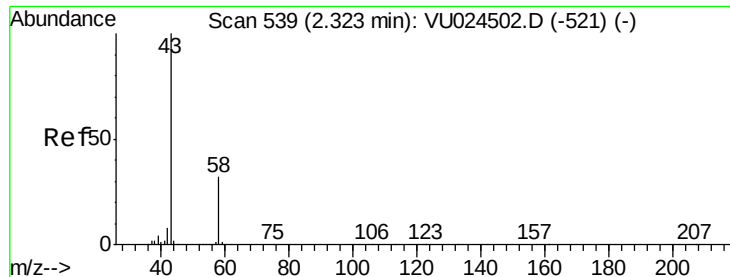
55 271.4 58.4 87.6#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0





#16

Acetone

Concen: 1.373 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU025106.D

Acq: 30 Jun 2018 22:27

Instrument :

MSVOA_U

ClientSampleId :

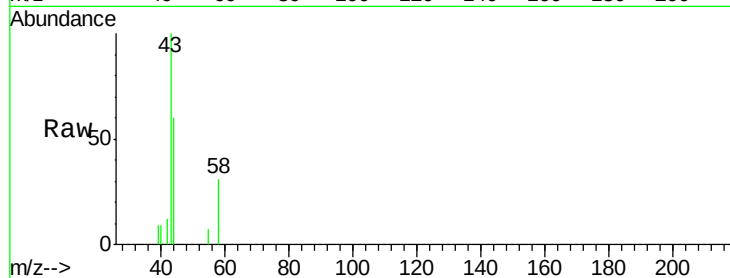
WP021MW353-180626

Tgt Ion: 43 Resp: 2547

Ion Ratio Lower Upper

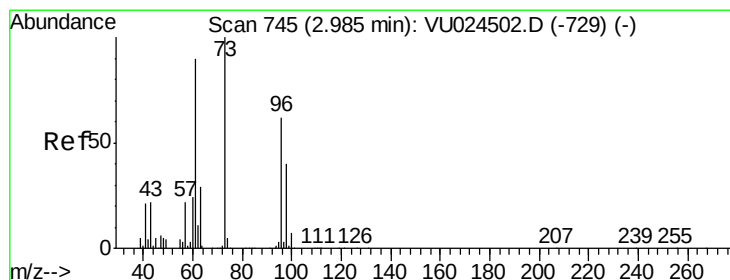
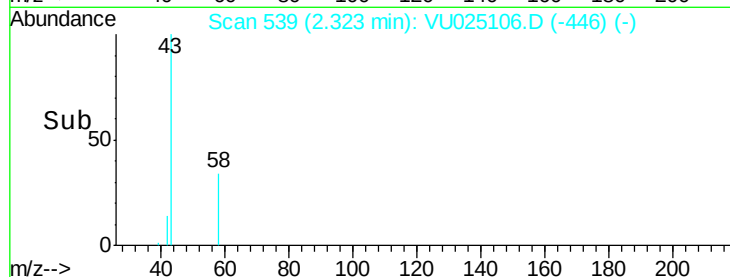
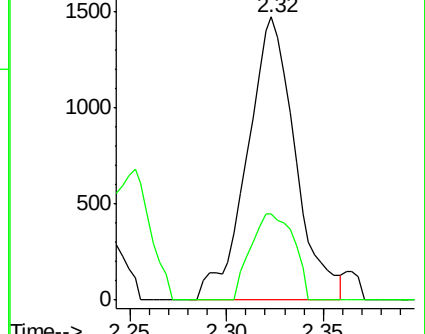
43 100

58 30.6 24.4 36.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#21

trans-1,2-Dichloroethene

Concen: 0.613 ug/l

RT: 2.98 min Scan# 744

Delta R.T. -0.00 min

Lab File: VU025106.D

Acq: 30 Jun 2018 22:27

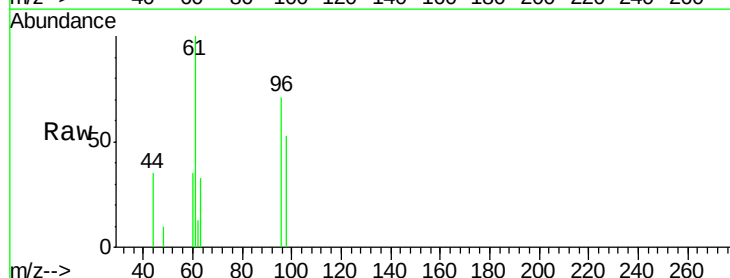
Tgt Ion: 96 Resp: 1625

Ion Ratio Lower Upper

96 100

61 141.3 119.4 179.0

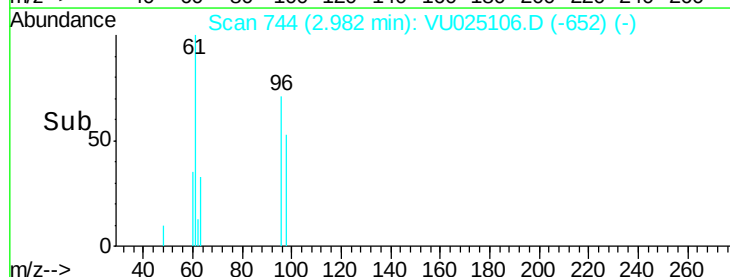
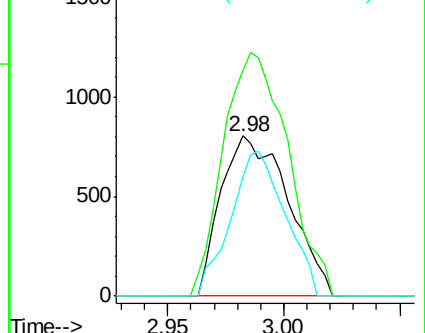
98 75.0 51.1 76.7

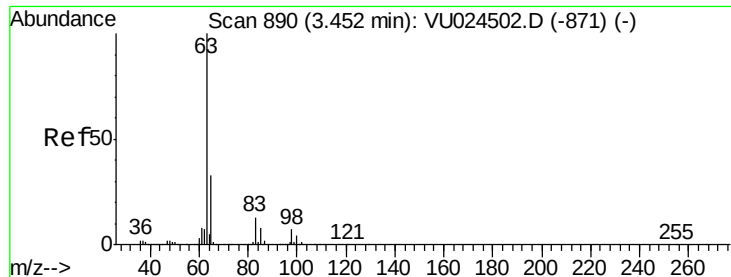


Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0





#24

1,1-Dichloroethane

Concen: 0.318 ug/l

RT: 3.45 min Scan# 889

Delta R.T. -0.00 min

Lab File: VU025106.D

Acq: 30 Jun 2018 22:27

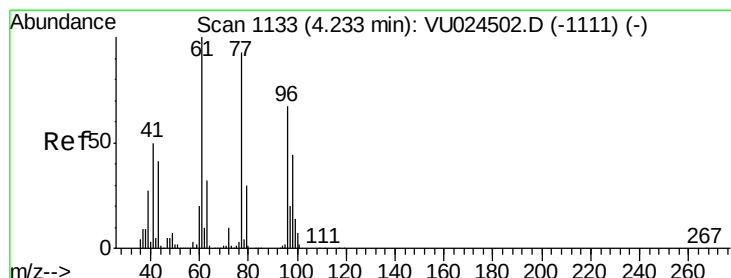
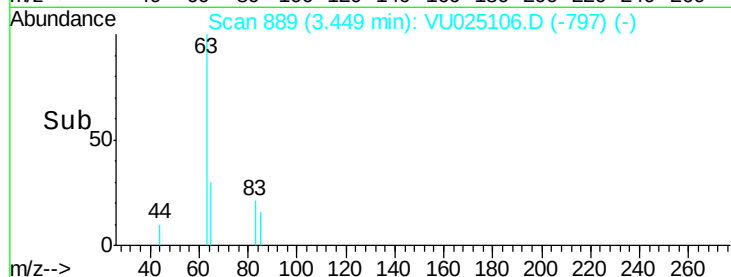
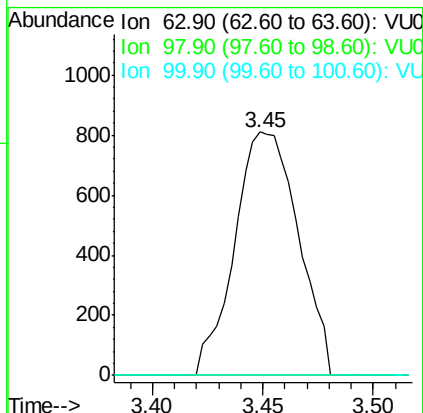
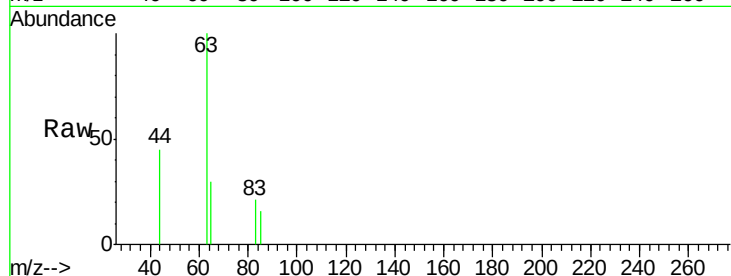
Instrument :

MSVOA_U

ClientSampleId :

WP021MW353-180626

Tgt Ion:	63	Resp:	1620
Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.5	10.4#
100	0.0	1.8	5.5#



#27

cis-1,2-Dichloroethene

Concen: 16.221 ug/l

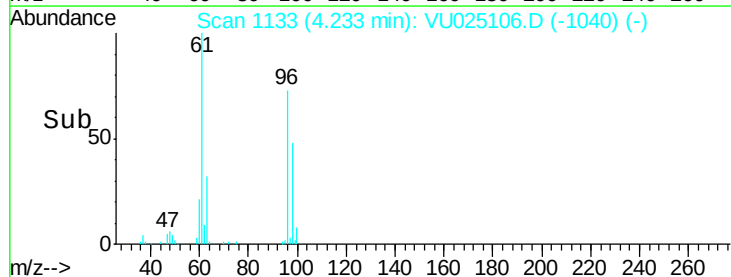
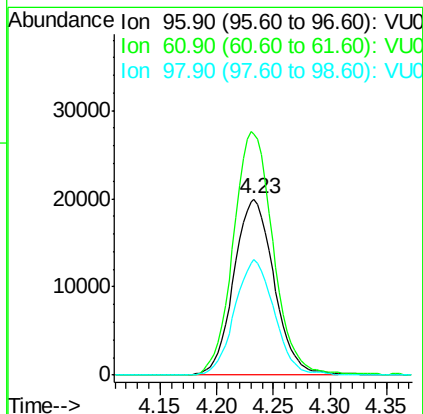
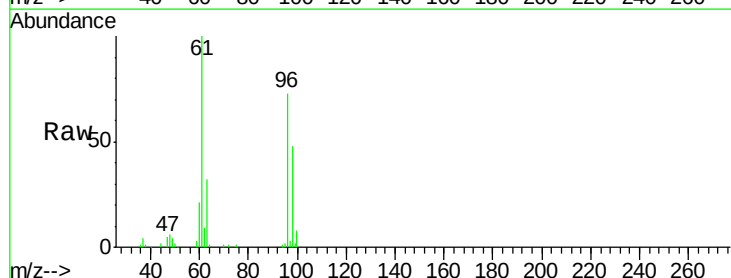
RT: 4.23 min Scan# 1133

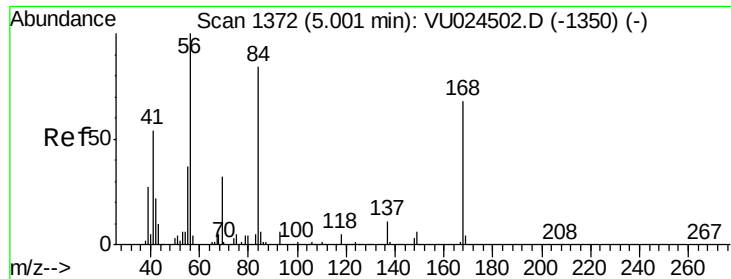
Delta R.T. 0.00 min

Lab File: VU025106.D

Acq: 30 Jun 2018 22:27

Tgt Ion:	96	Resp:	49457
Ion	Ratio	Lower	Upper
96	100		
61	136.7	0.0	306.6
98	64.5	0.0	128.8

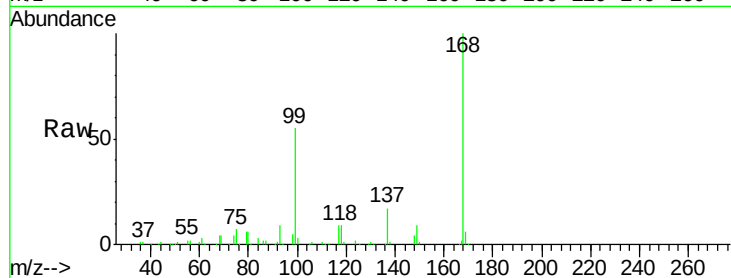




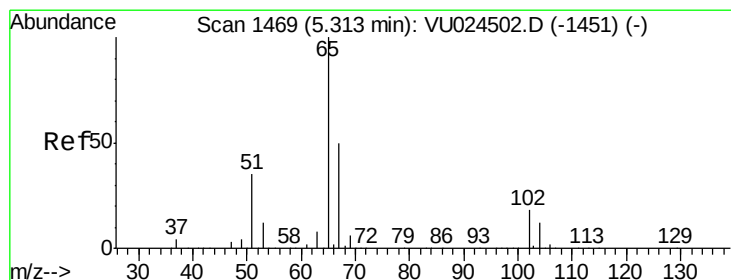
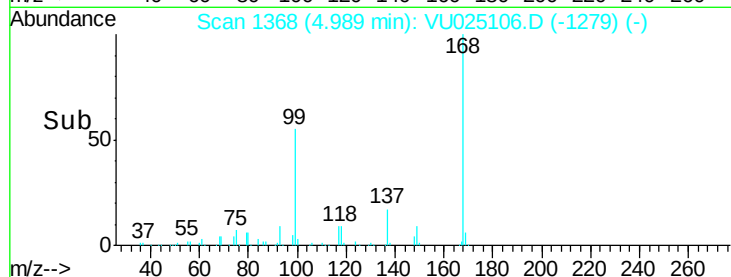
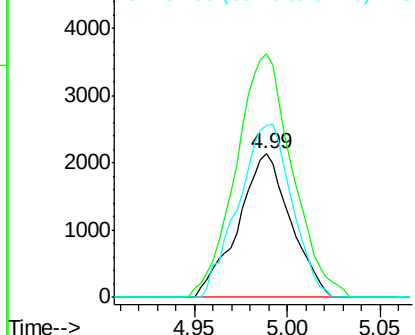
#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1368
Delta R.T. -0.01 min
Lab File: VU025106.D
Acq: 30 Jun 2018 22:27

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Tgt Ion: 56 Resp: 4201
Ion Ratio Lower Upper
56 100
69 170.1 24.8 37.2#
84 120.4 65.2 97.8#

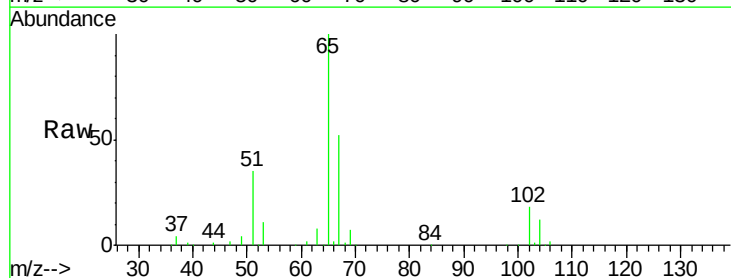


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

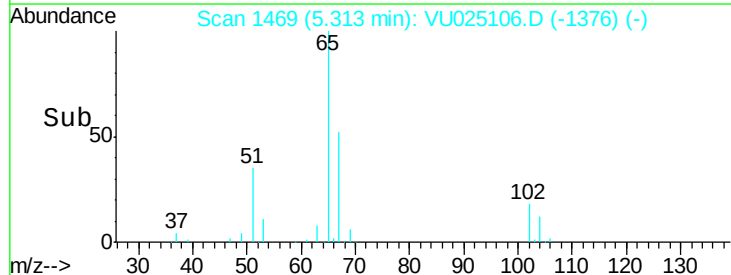
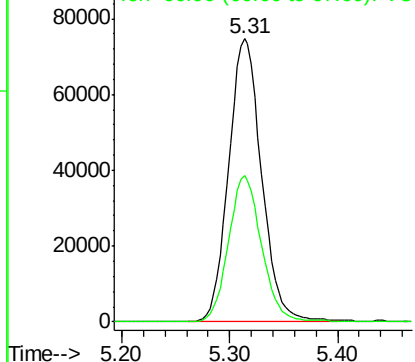


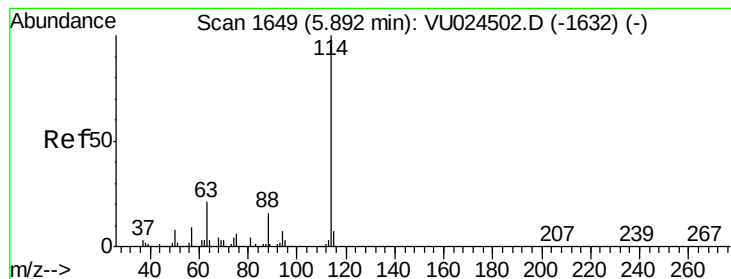
#33
1,2-Dichloroethane-d4
Concen: 46.095 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VU025106.D
Acq: 30 Jun 2018 22:27

Tgt Ion: 65 Resp: 159137
Ion Ratio Lower Upper
65 100
67 51.8 0.0 107.0



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# 1649

Delta R.T. 0.00 min

Lab File: VU025106.D

Acq: 30 Jun 2018 22:27

Instrument :

MSVOA_U

ClientSampleId :

WP021MW353-180626

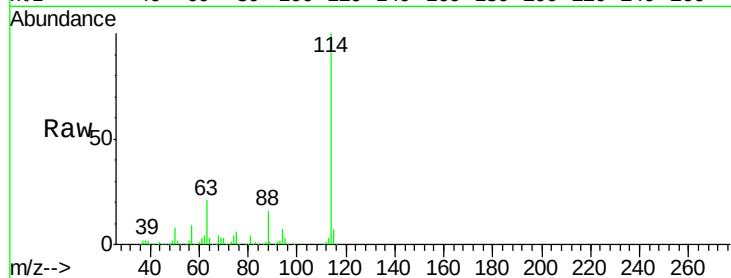
Tgt Ion:114 Resp: 313302

Ion Ratio Lower Upper

114 100

63 21.3 0.0 45.4

88 16.5 0.0 31.0



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

200000

150000

100000

50000

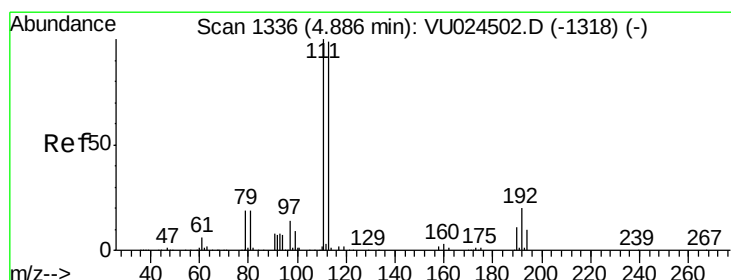
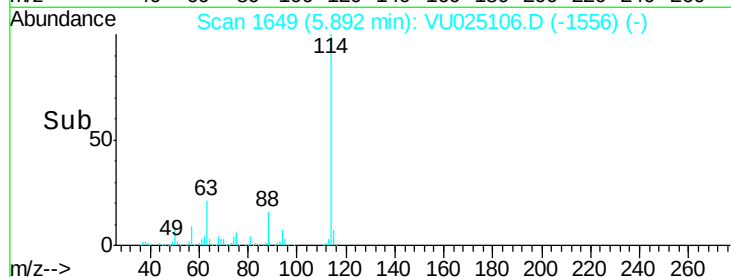
0

5.80

5.90

6.00

Time-->



#35

Dibromofluoromethane

Concen: 47.784 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU025106.D

Acq: 30 Jun 2018 22:27

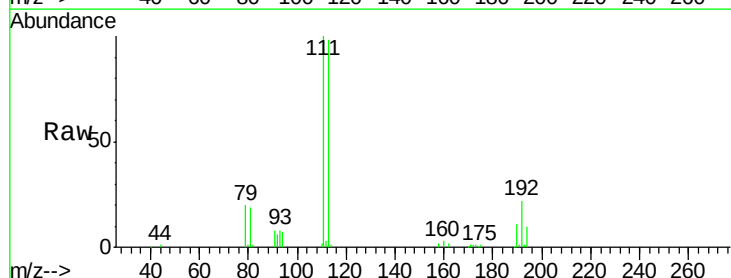
Tgt Ion:113 Resp: 124246

Ion Ratio Lower Upper

113 100

111 102.2 82.2 123.4

192 21.6 16.2 24.4



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

60000

40000

20000

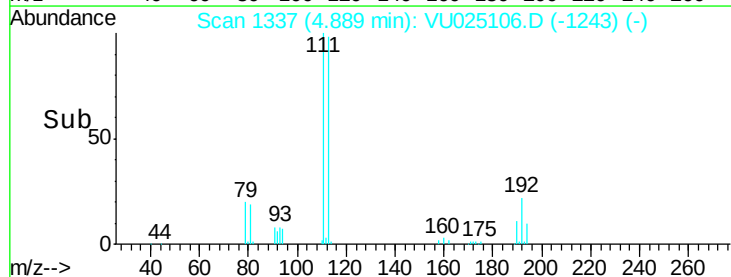
0

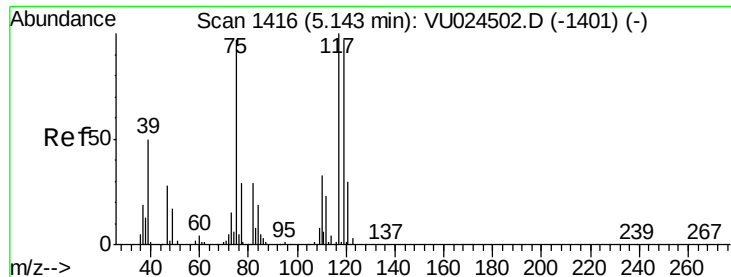
4.80

4.90

5.00

Time-->

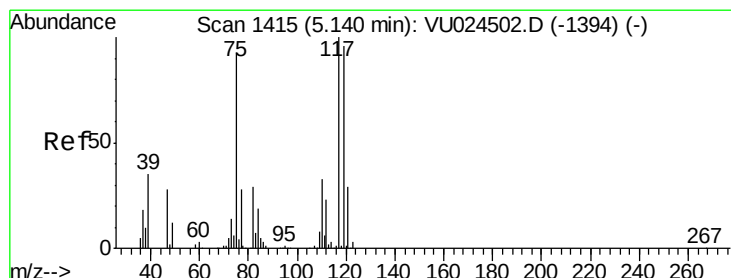
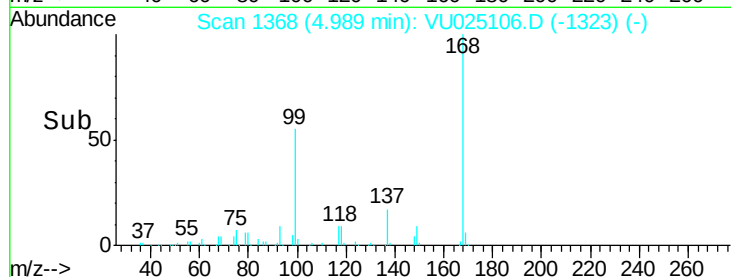
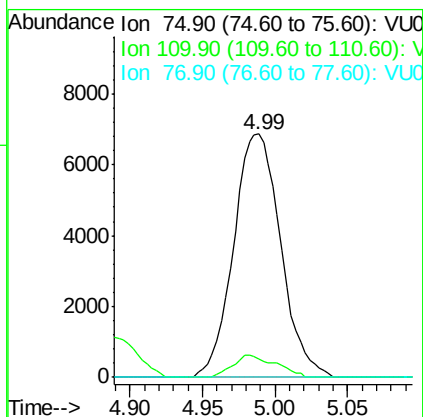
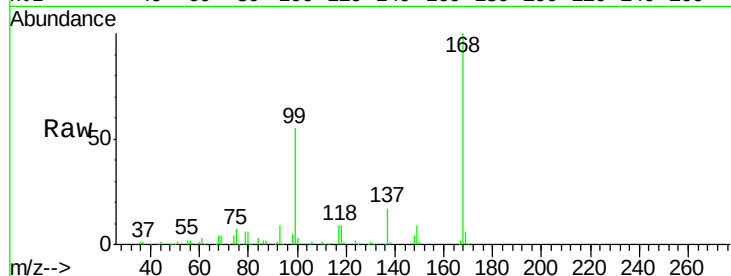




#36
 1,1-Dichloropropene
 Concen: 4.206 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU025106.D
 Acq: 30 Jun 2018 22:27

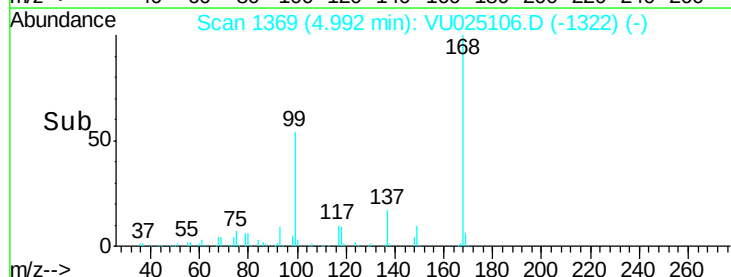
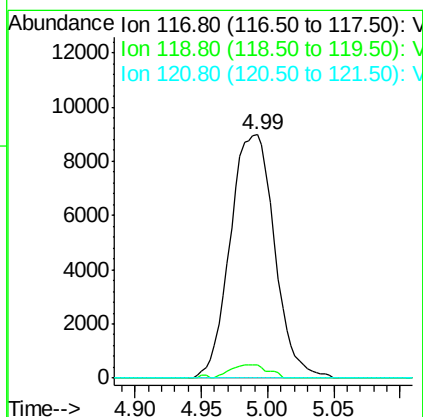
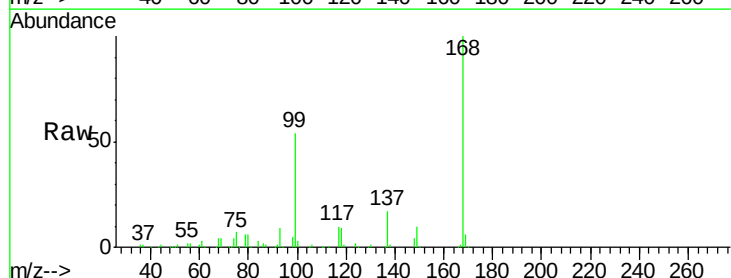
Instrument :
 MSVOA_U
 ClientSampleId :
 WP021MW353-180626

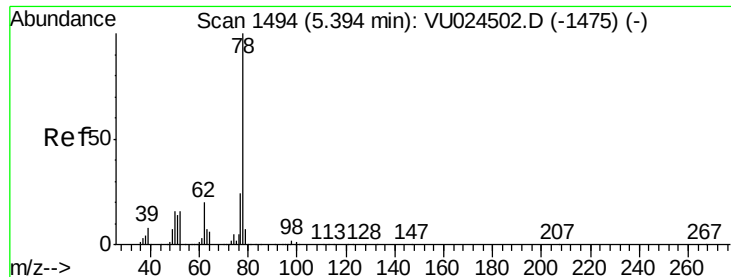
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	17.0	50.9#
77	0.0	24.2	36.4#



#38
 Carbon Tetrachloride
 Concen: 5.155 ug/l
 RT: 4.99 min Scan# 1369
 Delta R.T. -0.15 min
 Lab File: VU025106.D
 Acq: 30 Jun 2018 22:27

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.3	76.1	114.1#
121	0.0	23.7	35.5#





#40

Benzene

Concen: 0.215 ug/l

RT: 5.40 min Scan# 1496

Delta R.T. 0.01 min

Lab File: VU025106.D

Acq: 30 Jun 2018 22:27

Instrument :

MSVOA_U

ClientSampleId :

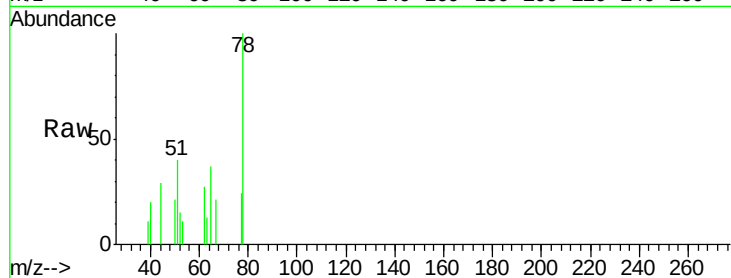
WP021MW353-180626

Tgt Ion: 78 Resp: 2253

Ion Ratio Lower Upper

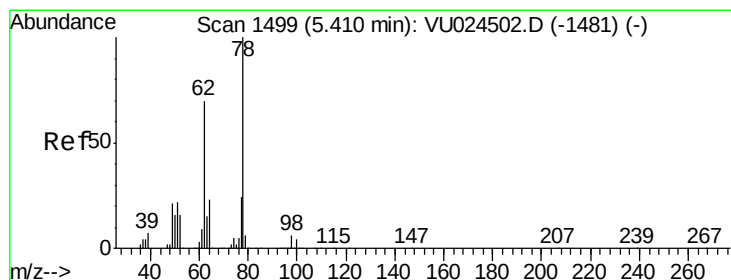
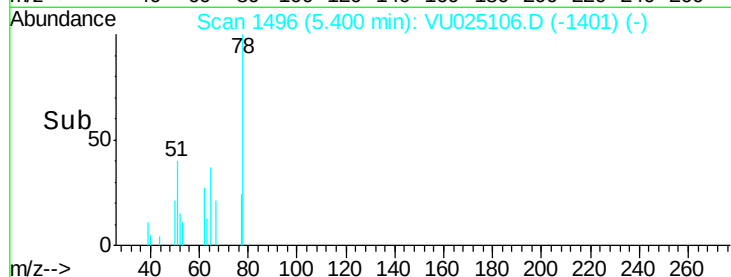
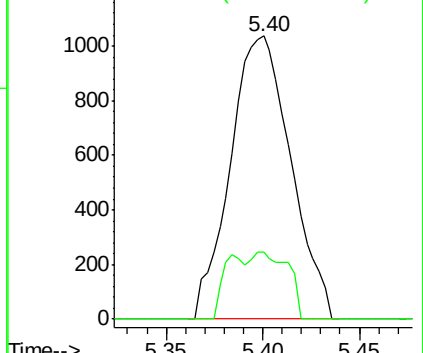
78 100

77 23.7 19.2 28.8



Abundance Ion 78.00 (77.70 to 78.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



#42

1,2-Dichloroethane

Concen: 0.282 ug/l

RT: 5.41 min Scan# 1500

Delta R.T. 0.00 min

Lab File: VU025106.D

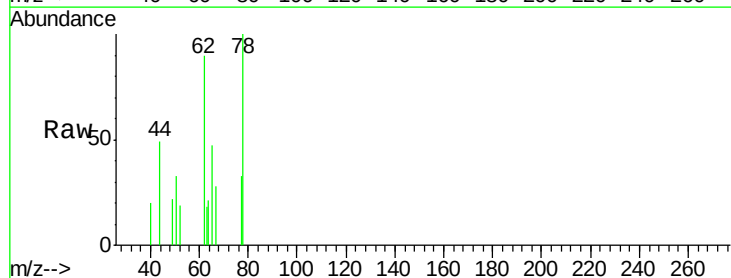
Acq: 30 Jun 2018 22:27

Tgt Ion: 62 Resp: 1126

Ion Ratio Lower Upper

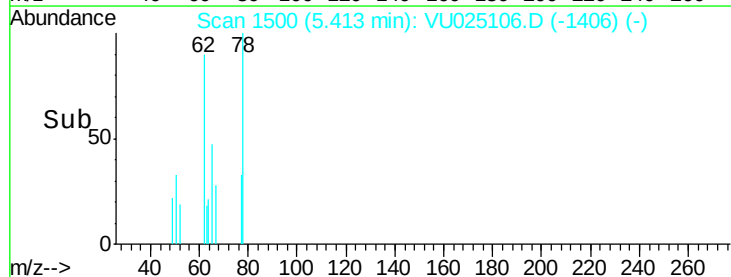
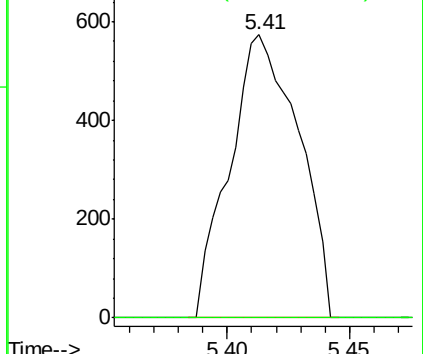
62 100

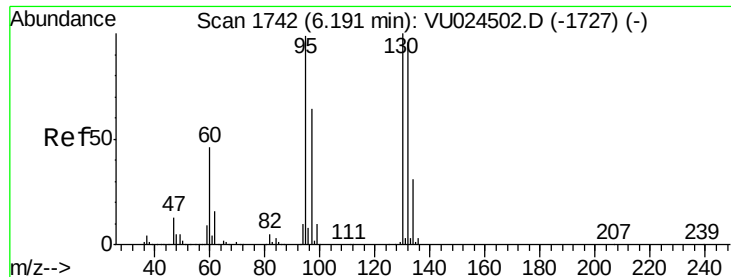
98 0.0 0.0 16.6



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 97.90 (97.60 to 98.60): VU0





#44

Trichloroethene

Concen: 1.946 ug/l

RT: 6.20 min Scan# 1744

Delta R.T. 0.01 min

Lab File: VU025106.D

Acq: 30 Jun 2018 22:27

Instrument :

MSVOA_U

ClientSampleId :

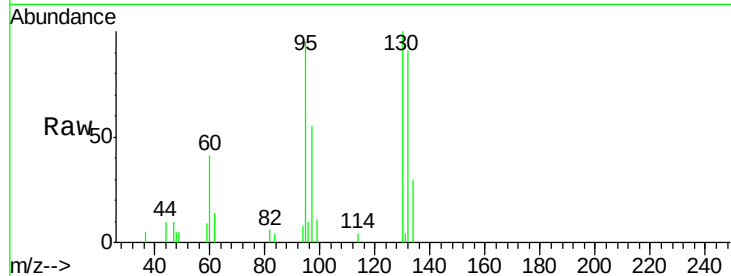
WP021MW353-180626

Tgt Ion:130 Resp: 5809

Ion Ratio Lower Upper

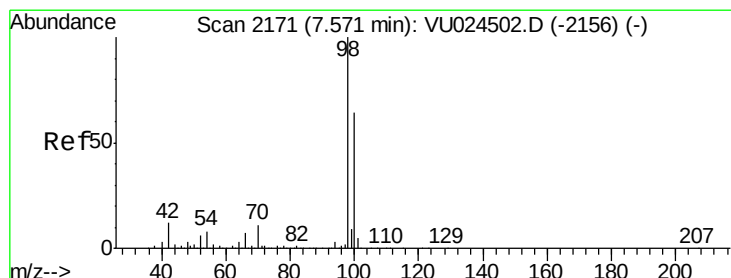
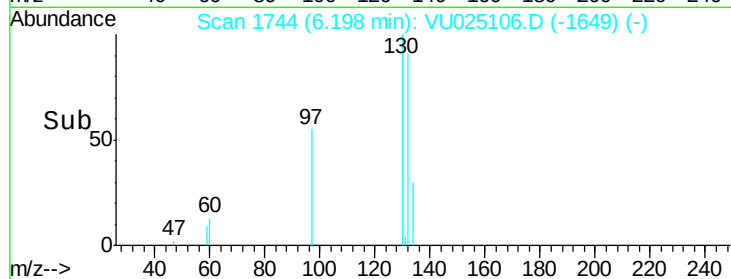
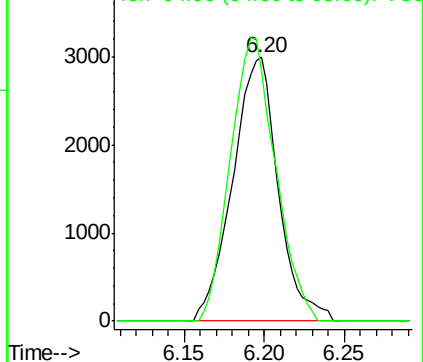
130 100

95 95.2 0.0 202.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VU0



#50

Toluene-d8

Concen: 48.193 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VU025106.D

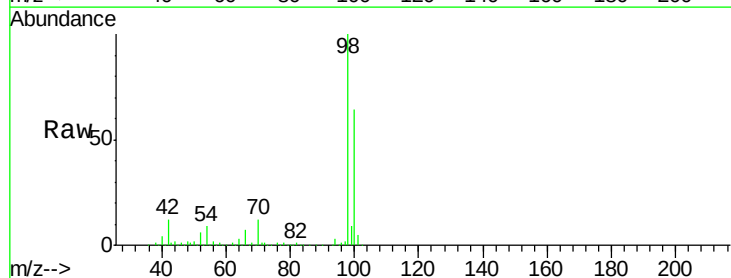
Acq: 30 Jun 2018 22:27

Tgt Ion: 98 Resp: 457075

Ion Ratio Lower Upper

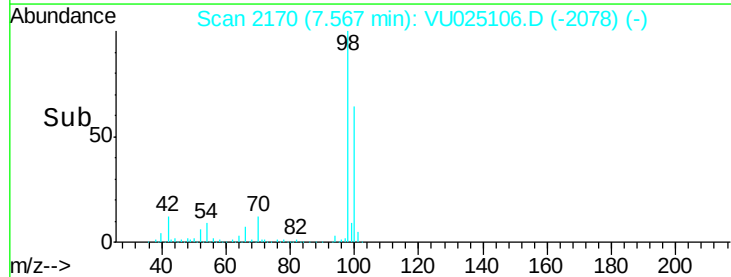
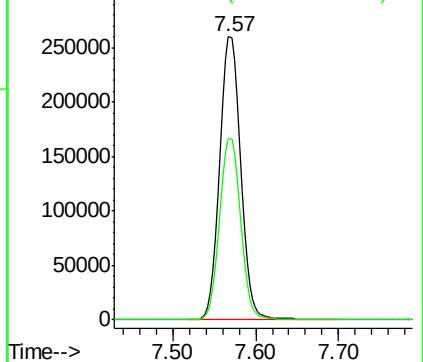
98 100

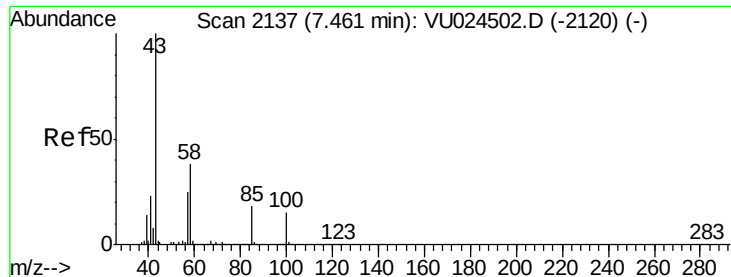
100 63.9 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU

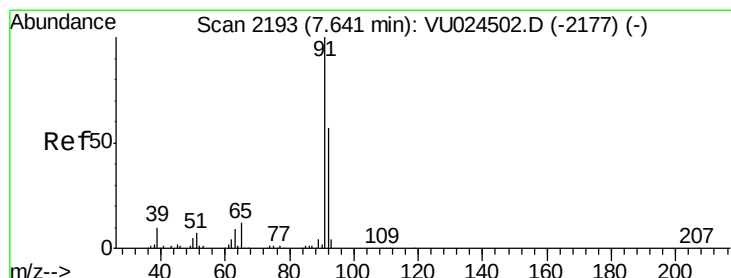
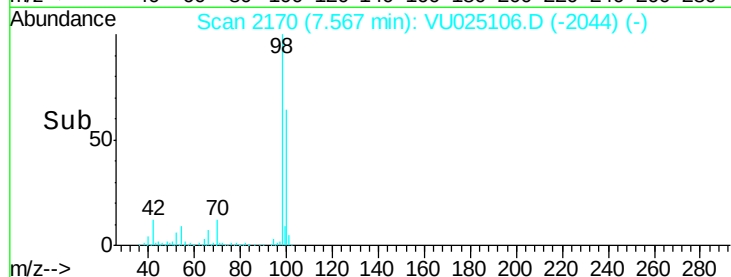
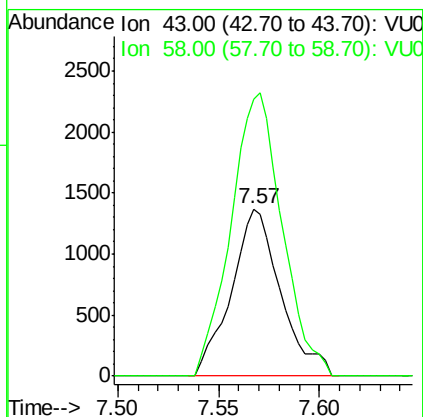
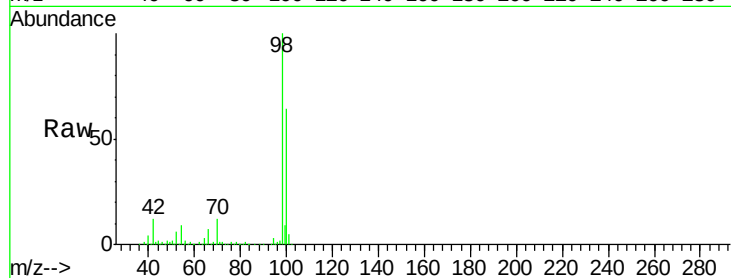




#51
 4-Methyl-2-Pentanone
 Concen: 0.538 ug/l
 RT: 7.57 min Scan# 2170
 Delta R.T. 0.11 min
 Lab File: VU025106.D
 Acq: 30 Jun 2018 22:27

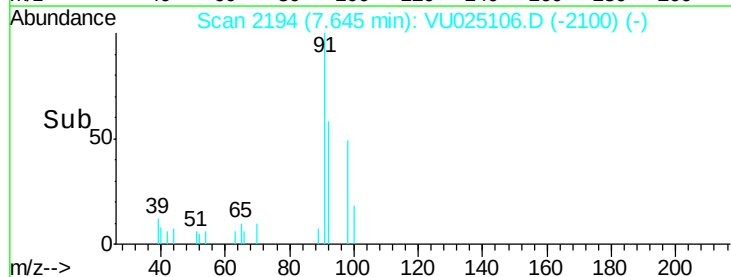
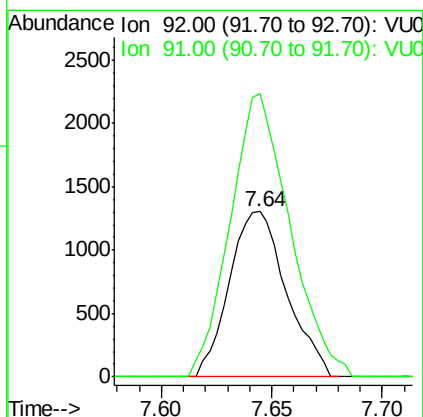
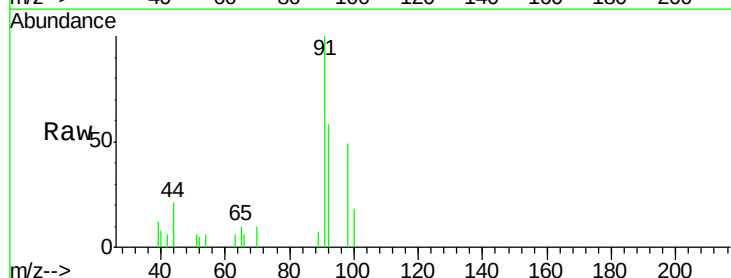
Instrument :
 MSVOA_U
 ClientSampleId :
 WP021MW353-180626

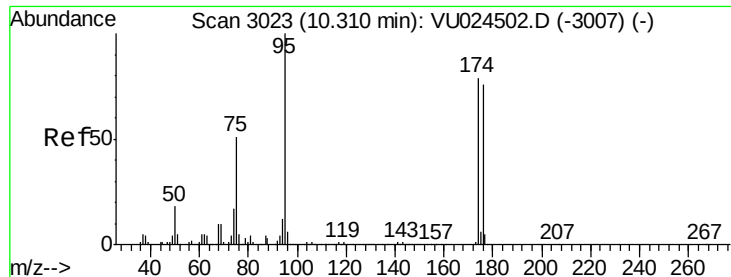
Tgt Ion: 43 Resp: 2343
 Ion Ratio Lower Upper
 43 100
 58 175.5 30.0 45.0#



#52
 Toluene
 Concen: 0.347 ug/l
 RT: 7.64 min Scan# 2194
 Delta R.T. 0.00 min
 Lab File: VU025106.D
 Acq: 30 Jun 2018 22:27

Tgt Ion: 92 Resp: 2345
 Ion Ratio Lower Upper
 92 100
 91 179.2 140.5 210.7





#62

4-Bromofluorobenzene

Concen: 44.713 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU025106.D

Acq: 30 Jun 2018 22:27

Instrument :

MSVOA_U

ClientSampleId :

WP021MW353-180626

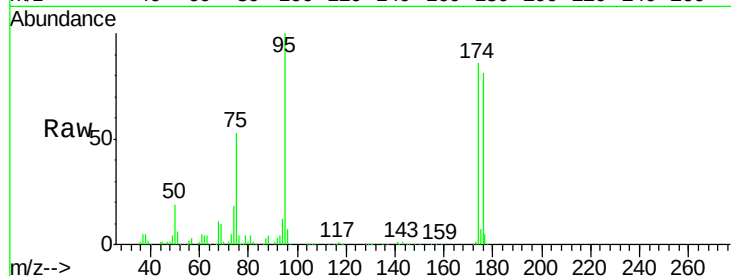
Tgt Ion: 95 Resp: 168374

Ion Ratio Lower Upper

95 100

174 85.6 0.0 165.8

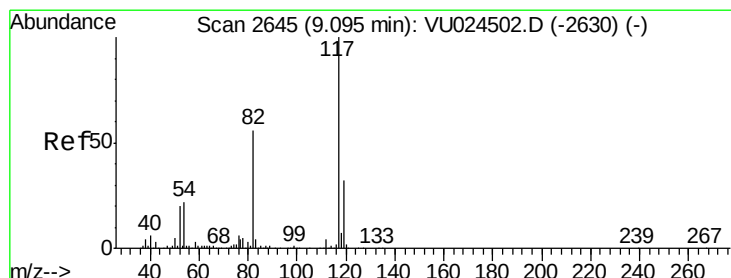
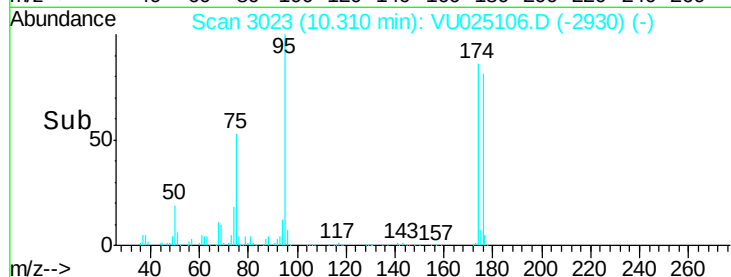
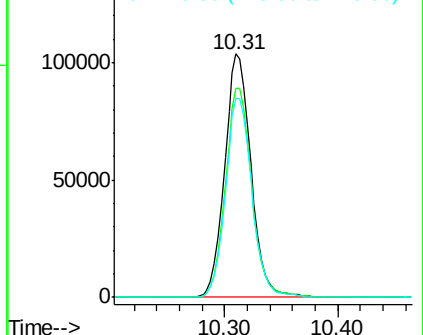
176 82.0 0.0 159.4



Abundance Ion 94.90 (94.60 to 95.60): VU025106.D (-2930) (-)

Ion 173.80 (173.50 to 174.50): VU025106.D (-2930) (-)

Ion 175.80 (175.50 to 176.50): VU025106.D (-2930) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2644

Delta R.T. -0.00 min

Lab File: VU025106.D

Acq: 30 Jun 2018 22:27

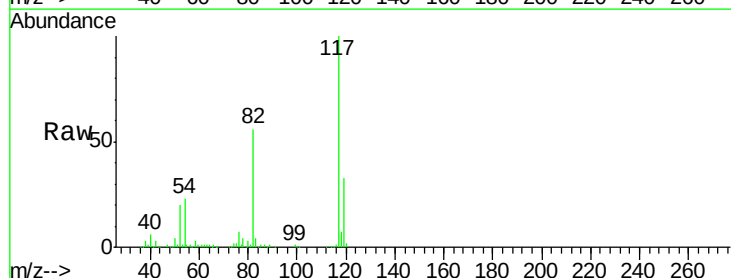
Tgt Ion: 117 Resp: 292362

Ion Ratio Lower Upper

117 100

82 55.7 44.3 66.5

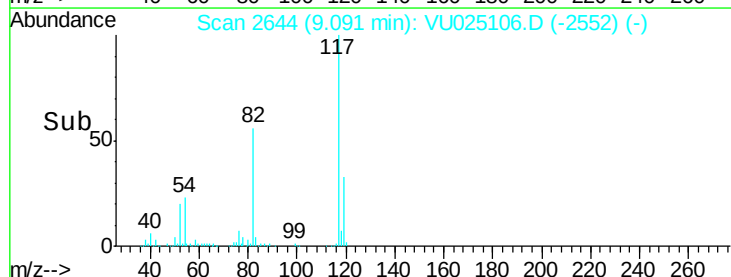
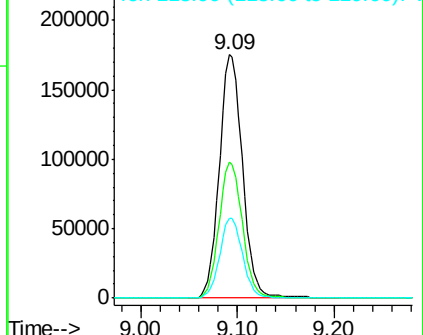
119 32.8 25.4 38.2

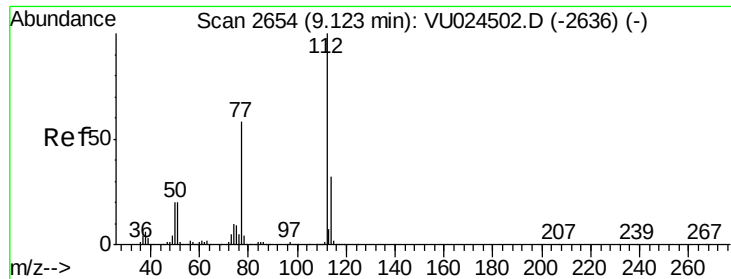


Abundance Ion 116.90 (116.60 to 117.60): VU025106.D (-2552) (-)

Ion 82.00 (81.70 to 82.70): VU025106.D (-2552) (-)

Ion 118.90 (118.60 to 119.60): VU025106.D (-2552) (-)

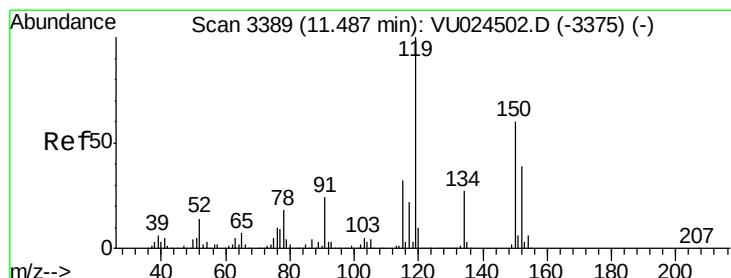
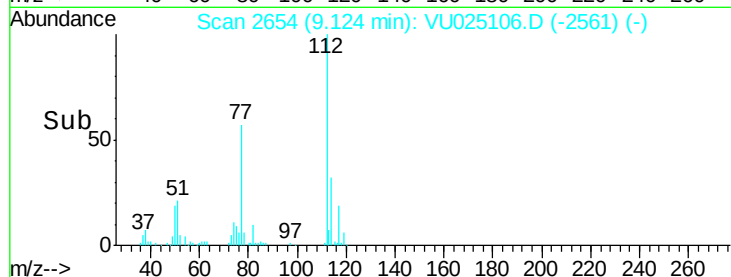
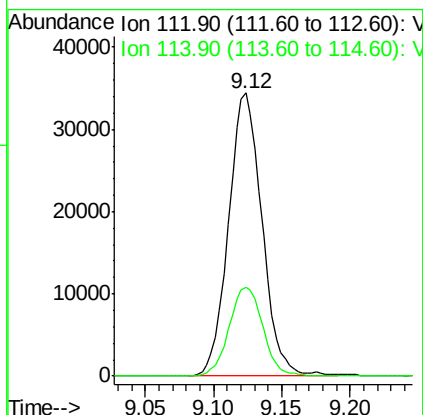
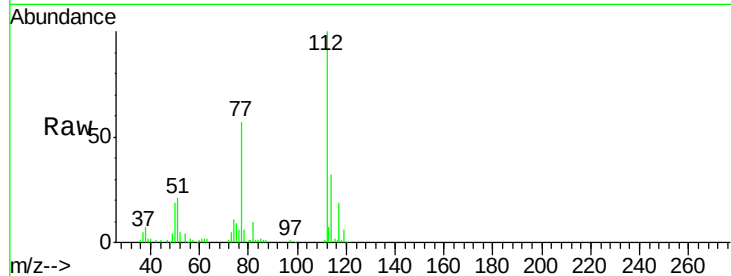




#65
Chlorobenzene
Concen: 7.877 ug/l
RT: 9.12 min Scan# 2654
Delta R.T. 0.00 min
Lab File: VU025106.D
Acq: 30 Jun 2018 22:27

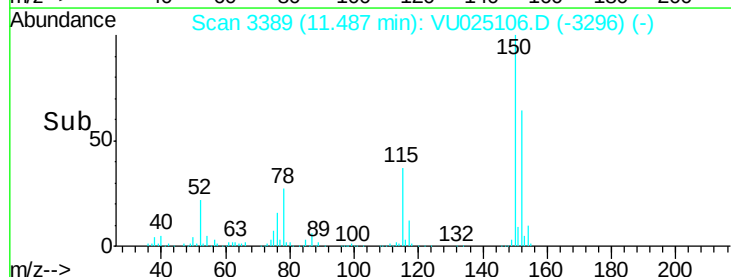
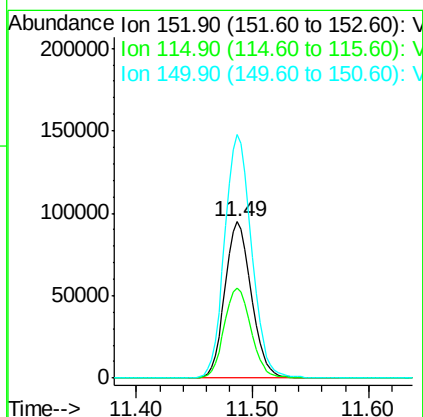
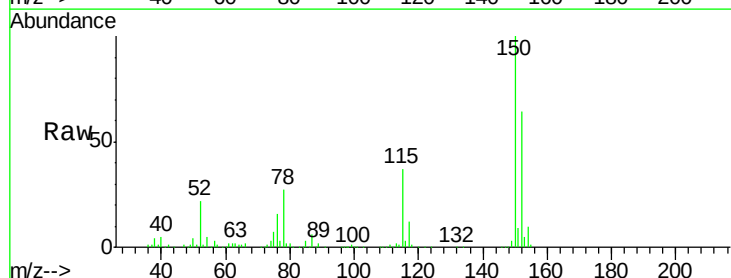
Instrument :
MSVOA_U
ClientSampleId :
WP021MW353-180626

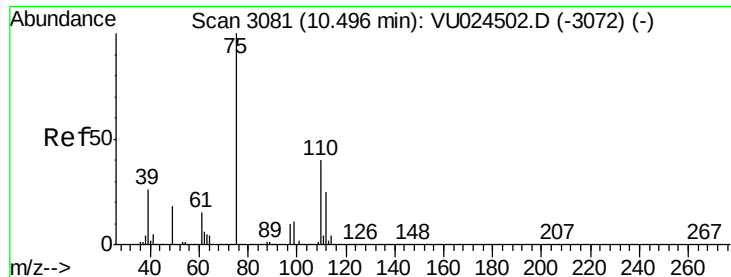
Tgt Ion:112 Resp: 58830
Ion Ratio Lower Upper
112 100
114 31.5 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. 0.00 min
Lab File: VU025106.D
Acq: 30 Jun 2018 22:27

Tgt Ion:152 Resp: 150330
Ion Ratio Lower Upper
152 100
115 58.2 43.0 129.0
150 158.0 0.0 354.0





#76

1,2,3-Trichloropropane

Concen: 26.493 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025106.D

Acq: 30 Jun 2018 22:27

Instrument :

MSVOA_U

ClientSampleId :

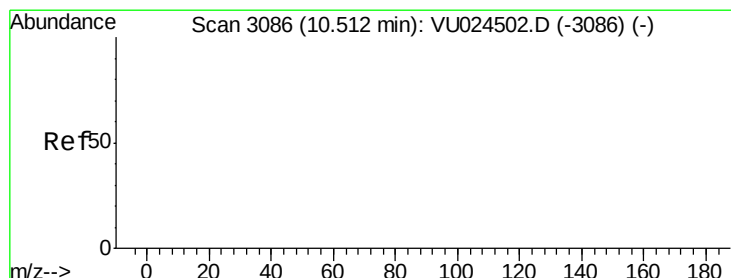
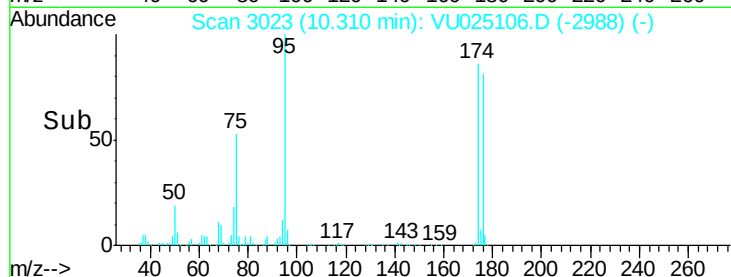
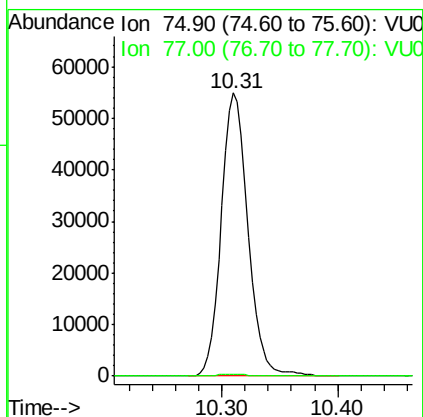
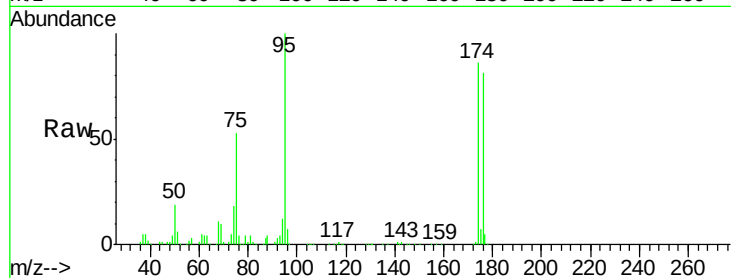
WP021MW353-180626

Tgt Ion: 75 Resp: 87683

Ion Ratio Lower Upper

75 100

77 0.9 20.9 62.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.315 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU025106.D

Acq: 30 Jun 2018 22:27

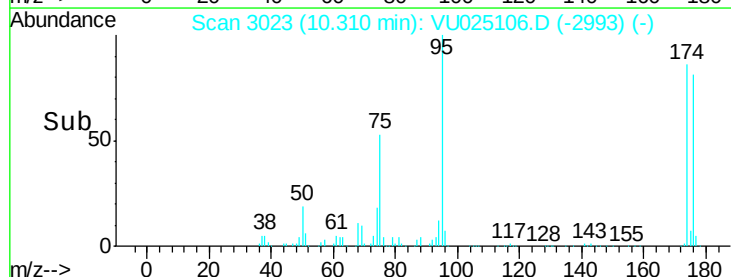
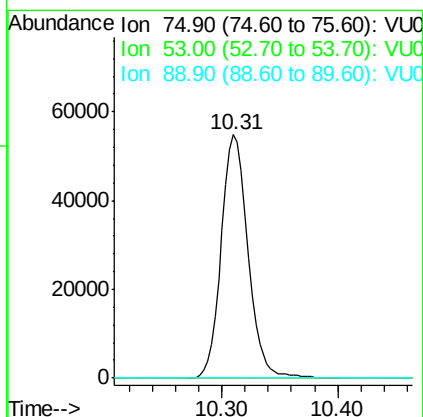
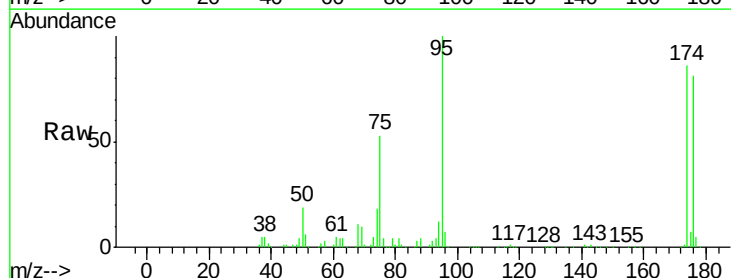
Tgt Ion: 75 Resp: 87683

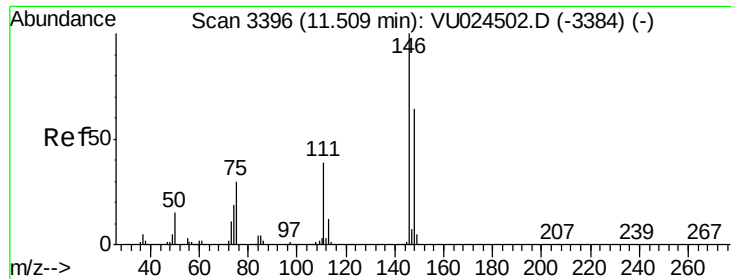
Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0

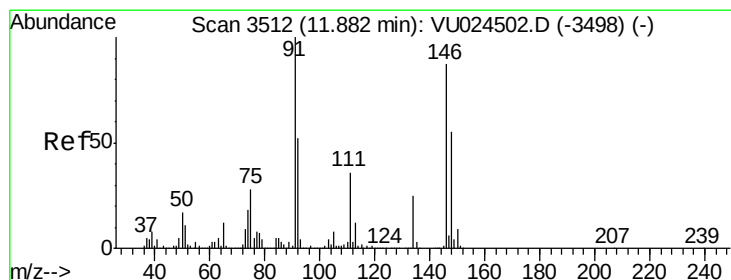
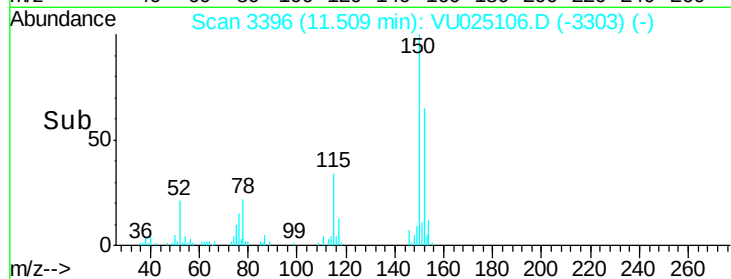
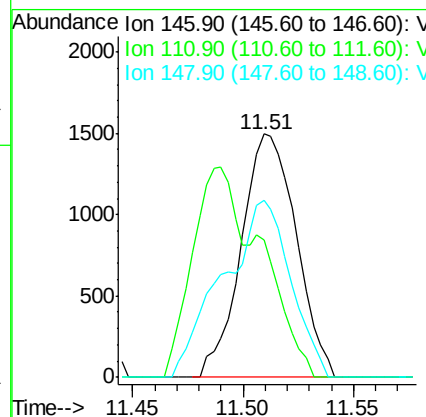
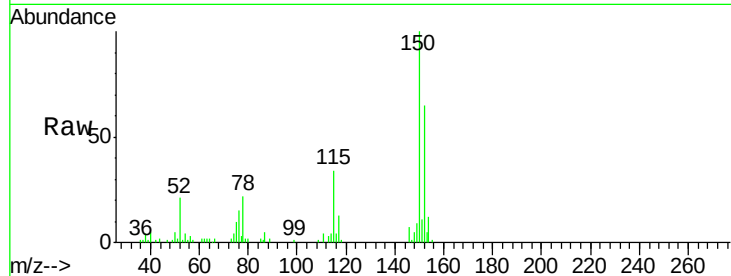




#88
 1,4-Dichlorobenzene
 Concen: 0.477 ug/l
 RT: 11.51 min Scan# 3396
 Delta R.T. 0.00 min
 Lab File: VU025106.D
 Acq: 30 Jun 2018 22:27

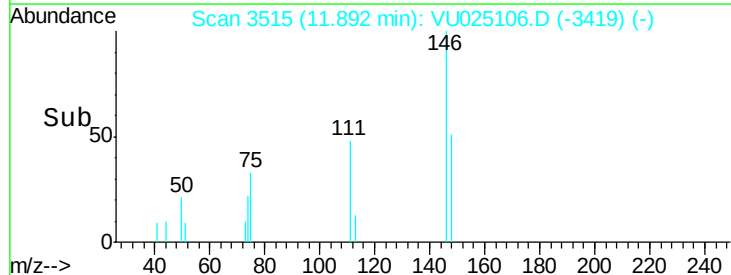
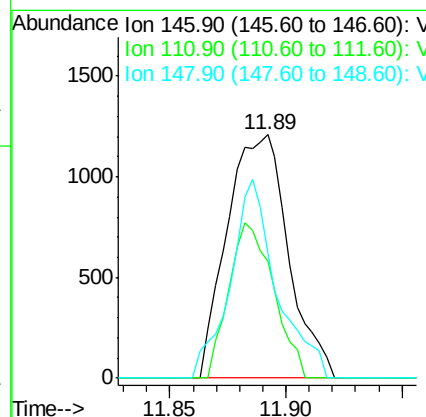
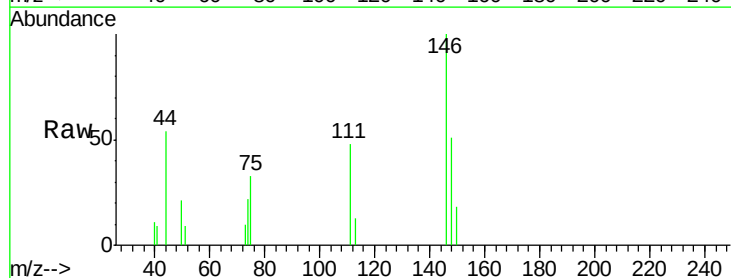
Instrument :
 MSVOA_U
 ClientSampleId :
 WP021MW353-180626

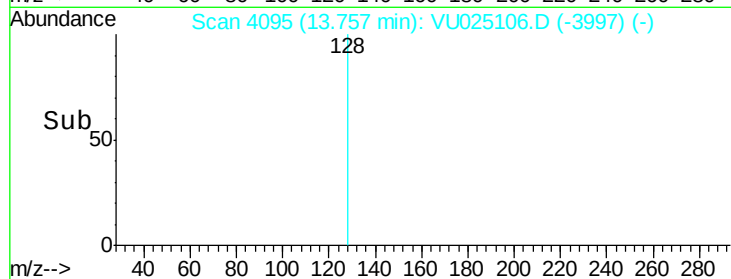
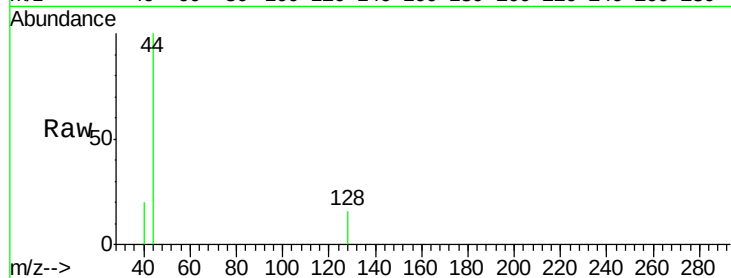
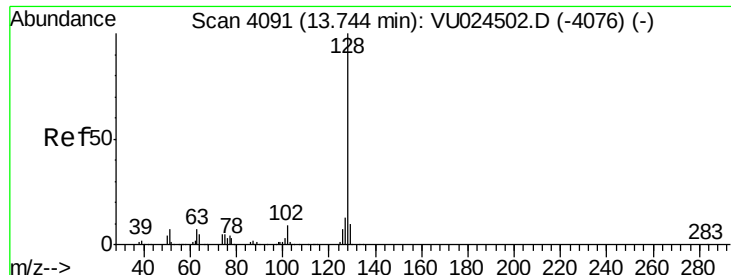
Tgt Ion	Ratio	Lower	Upper
146	100		
111	77.3	19.5	58.5#
148	89.4	32.4	97.0



#91
 1,2-Dichlorobenzene
 Concen: 0.409 ug/l
 RT: 11.89 min Scan# 3515
 Delta R.T. 0.01 min
 Lab File: VU025106.D
 Acq: 30 Jun 2018 22:27

Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.6	20.5	61.6
148	61.5	31.9	95.7





#95

Naphthalene

Concen: 0.683 ug/l

RT: 13.76 min Scan# 4095

Delta R.T. 0.01 min

Lab File: VU025106.D

Acq: 30 Jun 2018 22:27

Instrument :

MSVOA_U

ClientSampleId :

WP021MW353-180626

Tgt Ion:	128	Resp:	40
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.6	16.0#
129	0.0	8.6	12.8#

