

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU070718\
 Data File : VU025250.D
 Acq On : 06 Jul 2018 19:17
 Operator : MD/SY
 Sample : J3808-13
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021MW004-180628

Quant Time: Jul 06 23:31:33 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	200888	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	301605	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	282048	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	142672	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	155162	47.31	ug/l	0.00
Spiked Amount			Recovery	=	94.62%	
35) Dibromofluoromethane	4.89	113	118278	47.25	ug/l	0.00
Spiked Amount			Recovery	=	94.50%	
50) Toluene-d8	7.57	98	436926	47.85	ug/l	0.00
Spiked Amount			Recovery	=	95.70%	
62) 4-Bromofluorobenzene	10.31	95	158848	43.82	ug/l	0.00
Spiked Amount			Recovery	=	87.64%	

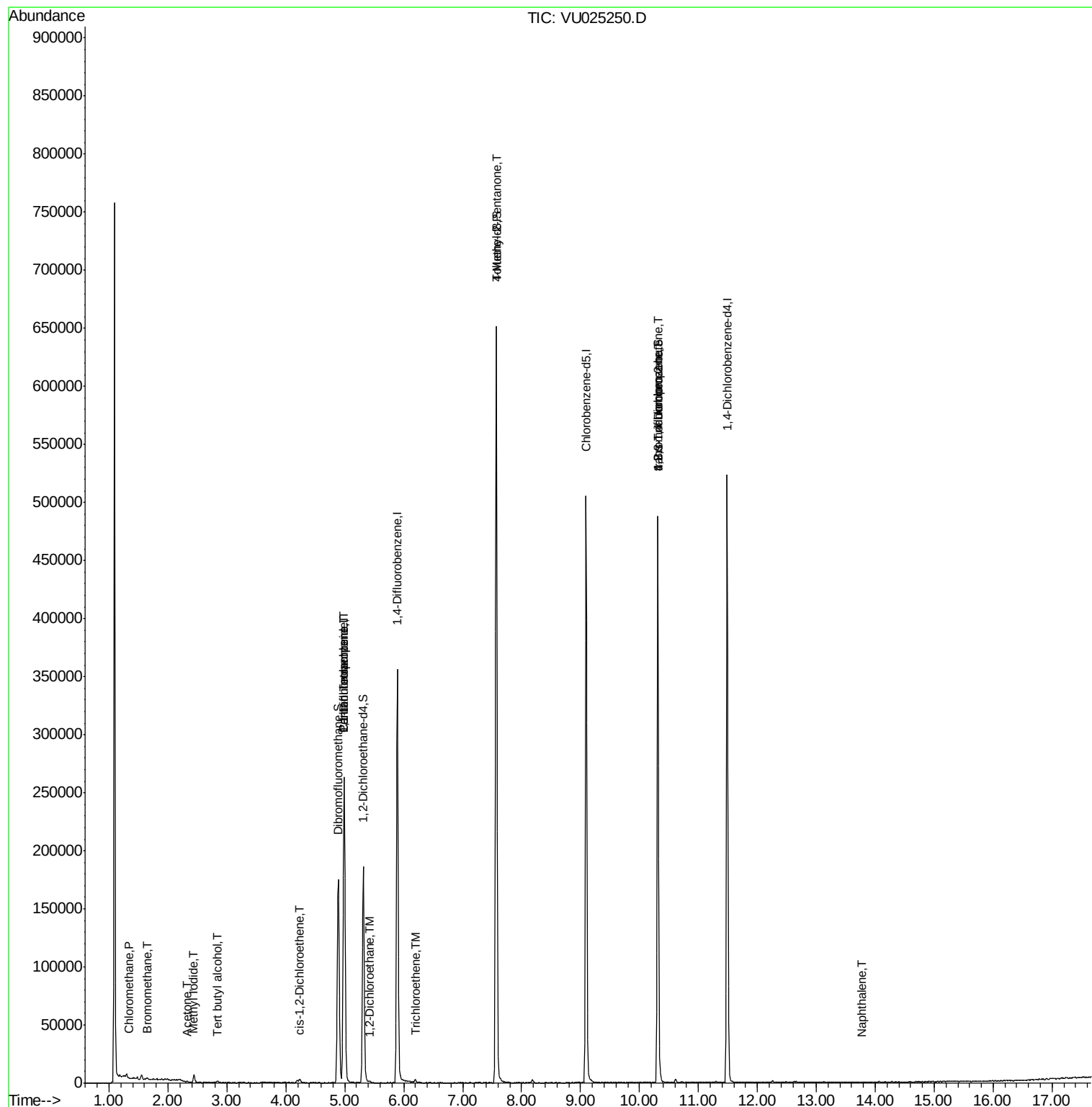
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	555	0.216	ug/l #	67
5) Bromomethane	1.64	94	408	0.319	ug/l	97
6) Chloroethane	1.69	64	19	Below Cal	#	43
10) Methyl Iodide	2.42	142	65	5.316	ug/l #	40
11) Tert butyl alcohol	2.84	59	713	0.894	ug/l #	72
16) Acetone	2.32	43	909	0.516	ug/l	94
27) cis-1,2-Dichloroethene	4.24	96	1627	0.562	ug/l	82
31) Cyclohexane	4.99	56	4076	Below Cal	#	4
36) 1,1-Dichloropropene	4.99	75	15658	4.418	ug/l #	50
38) Carbon Tetrachloride	4.99	117	20524	5.266	ug/l #	16
42) 1,2-Dichloroethane	5.42	62	854	0.222	ug/l #	77
44) Trichloroethene	6.19	130	762	0.265	ug/l	95
51) 4-Methyl-2-Pentanone	7.57	43	2024	0.482	ug/l #	1
76) 1,2,3-Trichloropropane	10.31	75	82982	26.418	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	82982	61.142	ug/l #	100
95) Naphthalene	13.78	128	146	0.693	ug/l #	69

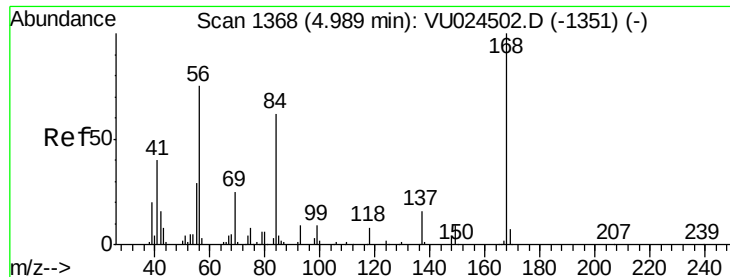
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU025250.D

Acq: 06 Jul 2018 19:17

Instrument :

MSVOA_U

ClientSampleId :

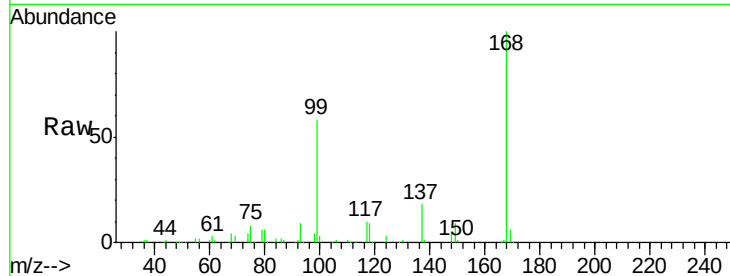
WP021MW004-180628

Tot Ion:168 Resp: 200888

Ion Ratio Lower Upper

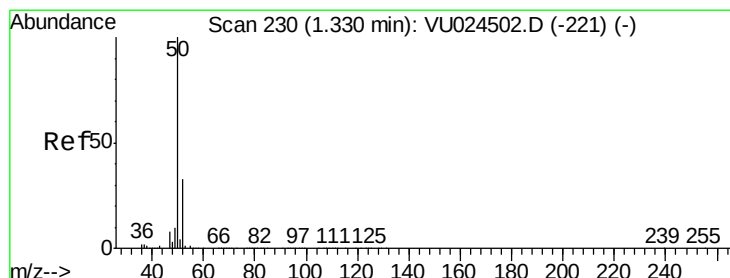
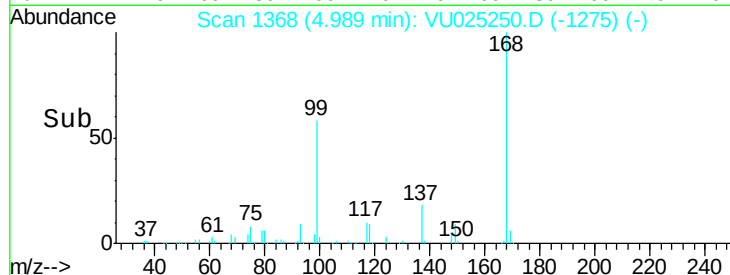
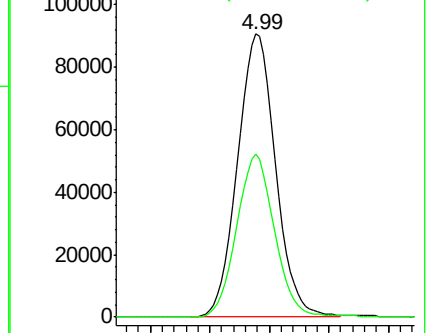
168 100

99 57.6 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024502.D (-1351) (-)

Ion 98.90 (98.60 to 99.60): VU024502.D (-1351) (-)



#3

Chloromethane

Concen: 0.216 ug/l

RT: 1.33 min Scan# 231

Delta R.T. 0.00 min

Lab File: VU025250.D

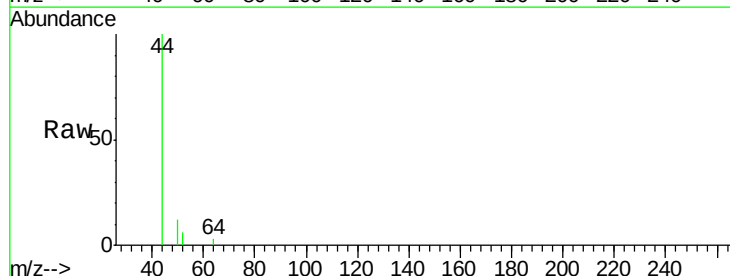
Acq: 06 Jul 2018 19:17

Tgt Ion: 50 Resp: 555

Ion Ratio Lower Upper

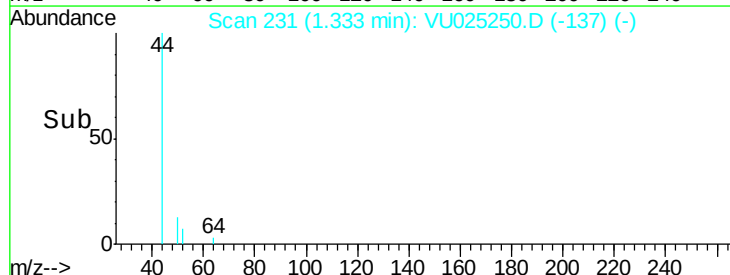
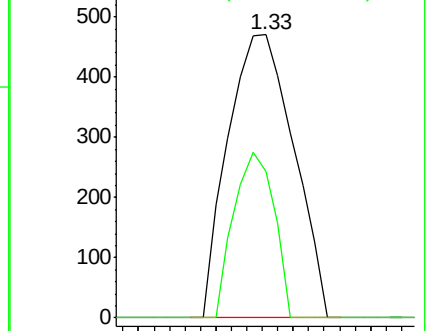
50 100

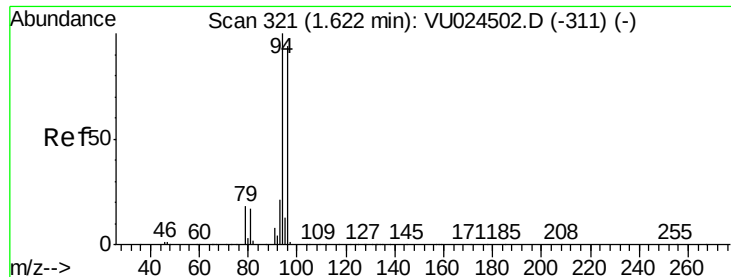
52 51.7 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VU024502.D (-221) (-)

Ion 51.90 (51.60 to 52.60): VU024502.D (-221) (-)





#5

Bromomethane

Concen: 0.319 ug/l

RT: 1.64 min Scan# 326

Delta R.T. 0.02 min

Lab File: VU025250.D

Acq: 06 Jul 2018 19:17

Instrument :

MSVOA_U

ClientSampleId :

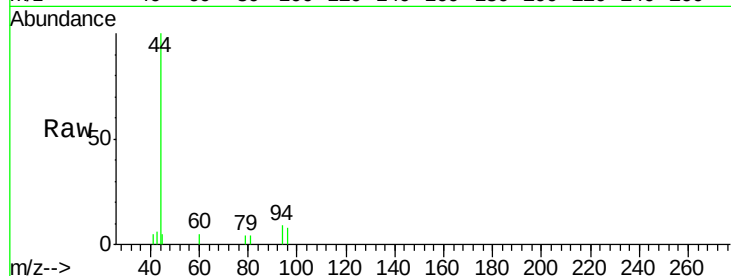
WP021MW004-180628

Tot Ion: 94 Resp: 408

Ion Ratio Lower Upper

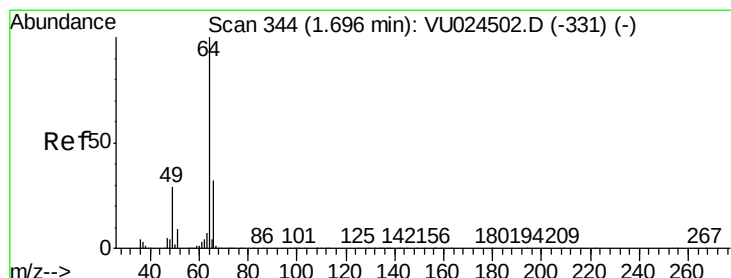
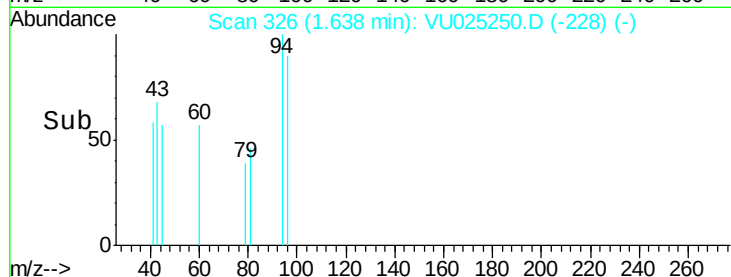
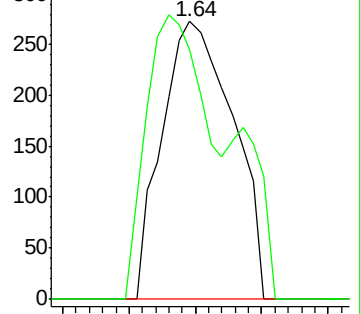
94 100

96 89.7 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 341

Delta R.T. -0.01 min

Lab File: VU025250.D

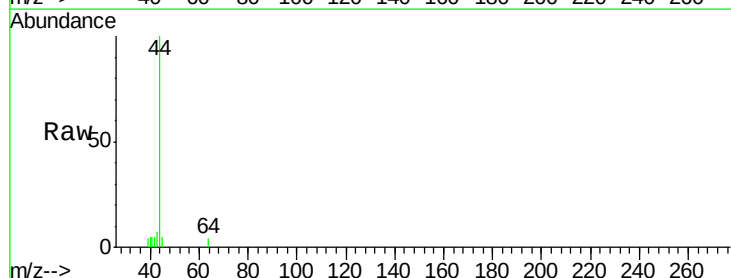
Acq: 06 Jul 2018 19:17

Tgt Ion: 64 Resp: 19

Ion Ratio Lower Upper

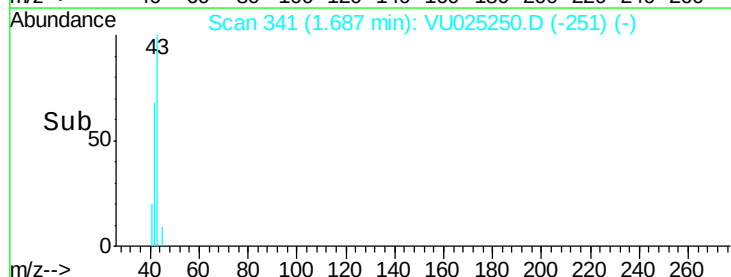
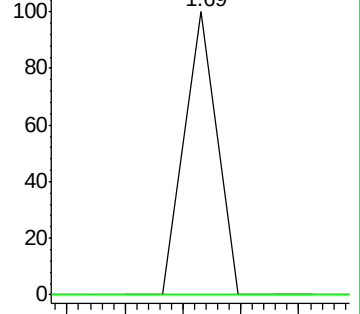
64 100

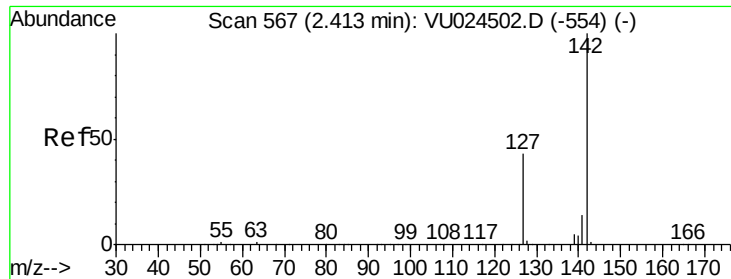
66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0

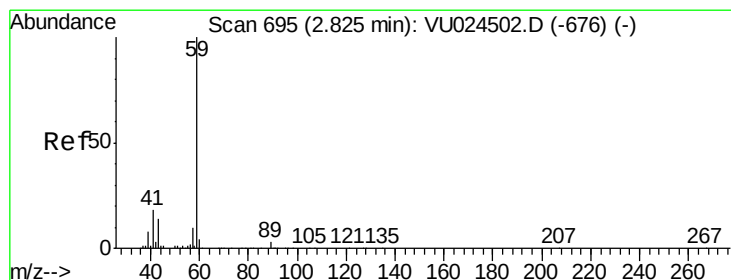
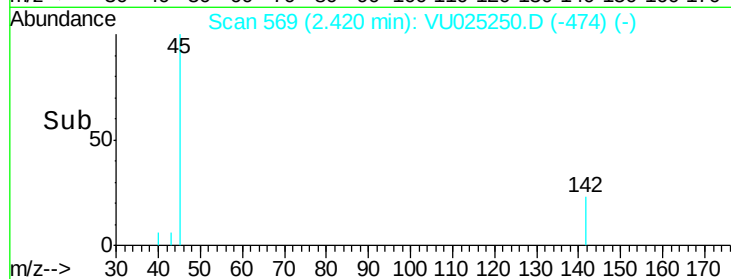
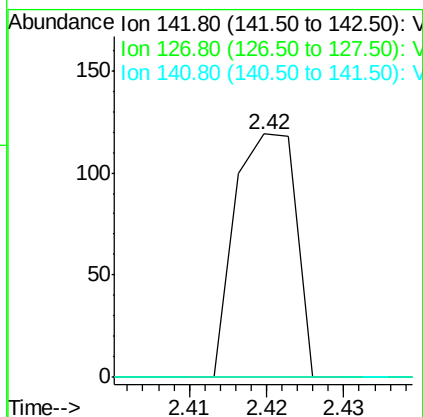
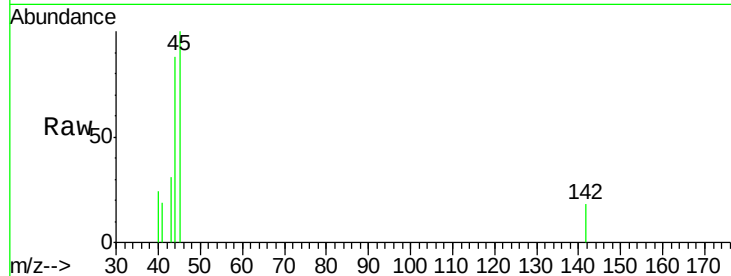




#10
Methvl Iodide
Concen: 5.316 ug/l
RT: 2.42 min Scan# 569
Delta R.T. 0.01 min
Lab File: VU025250.D
Acq: 06 Jul 2018 19:17

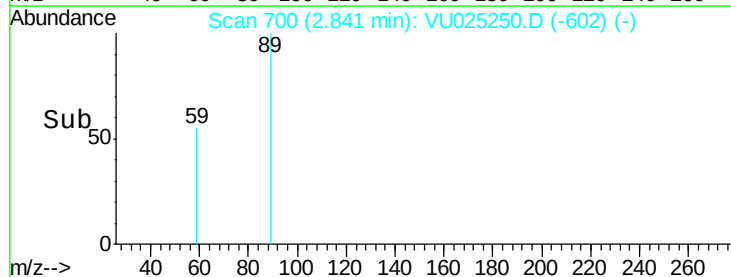
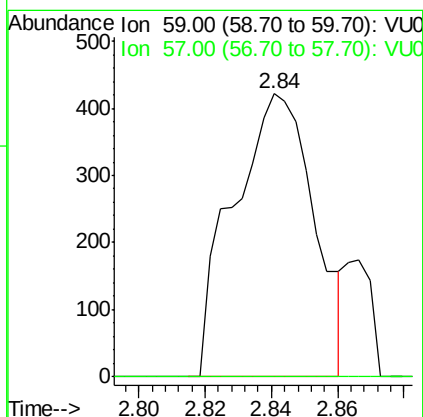
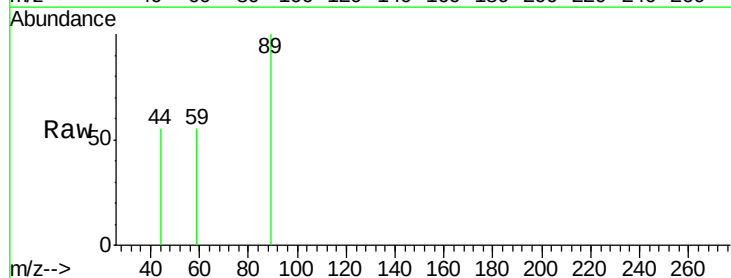
Instrument :
MSVOA_U
ClientSampleId :
WP021MW004-180628

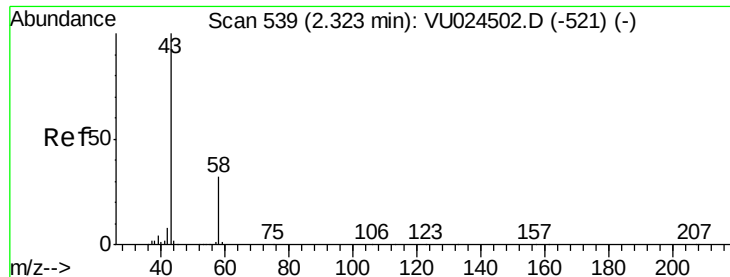
Tot Ion:142 Resp: 65
Ion Ratio Lower Upper
142 100
127 0.0 35.6 53.4#
141 0.0 11.7 17.5#



#11
Tert butyl alcohol
Concen: 0.894 ug/l
RT: 2.84 min Scan# 700
Delta R.T. 0.02 min
Lab File: VU025250.D
Acq: 06 Jul 2018 19:17

Tgt Ion: 59 Resp: 713
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#





#16

Acetone

Concen: 0.516 ug/l

RT: 2.32 min Scan# 538

Delta R.T. -0.00 min

Lab File: VU025250.D

Acq: 06 Jul 2018 19:17

Instrument :

MSVOA_U

ClientSampleId :

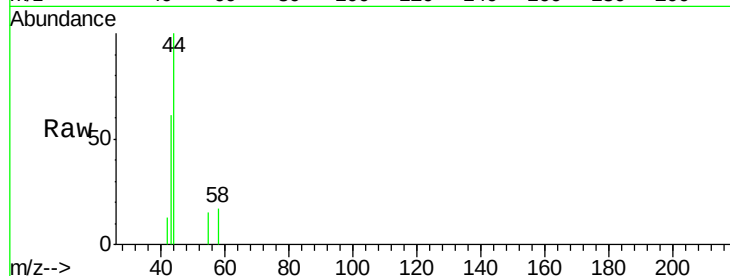
WP021MW004-180628

Tot Ion: 43 Resp: 909

Ion Ratio Lower Upper

43 100

58 27.4 24.4 36.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

2.32

500

400

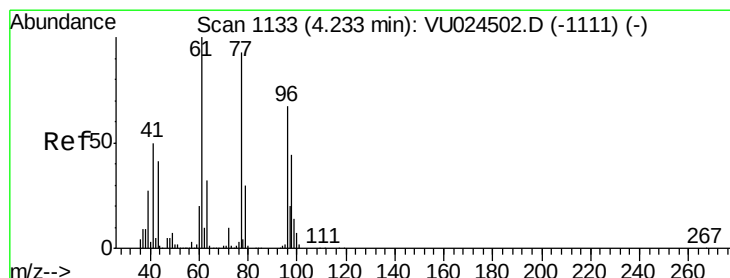
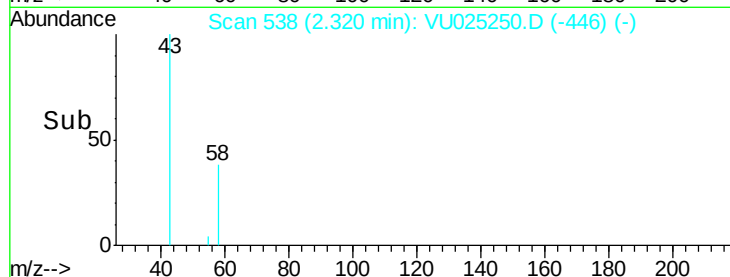
300

200

100

0

Time-->



#27

cis-1,2-Dichloroethene

Concen: 0.562 ug/l

RT: 4.24 min Scan# 1135

Delta R.T. 0.01 min

Lab File: VU025250.D

Acq: 06 Jul 2018 19:17

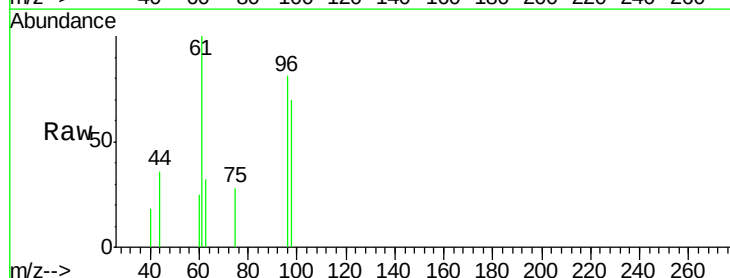
Tgt Ion: 96 Resp: 1627

Ion Ratio Lower Upper

96 100

61 128.4 0.0 306.6

98 75.1 0.0 128.8



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

1000

800

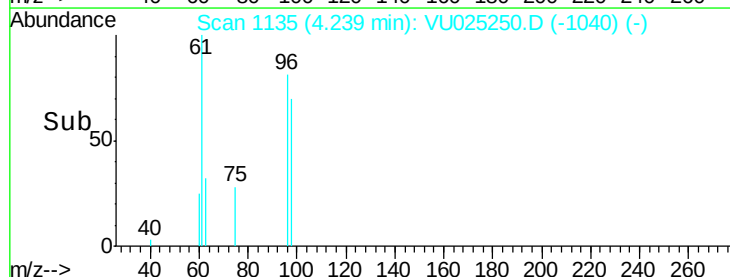
600

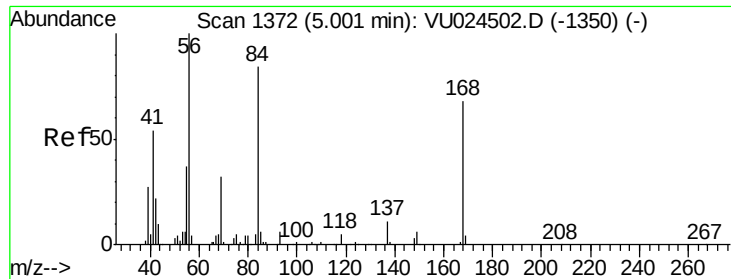
400

200

0

Time-->

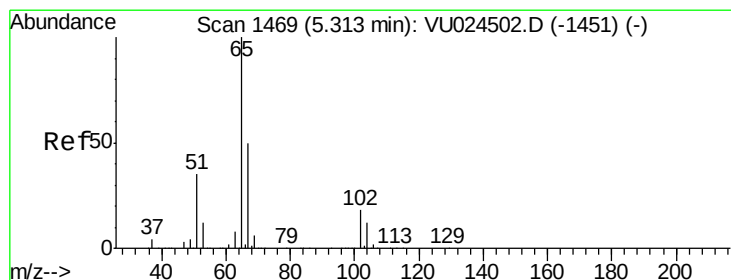
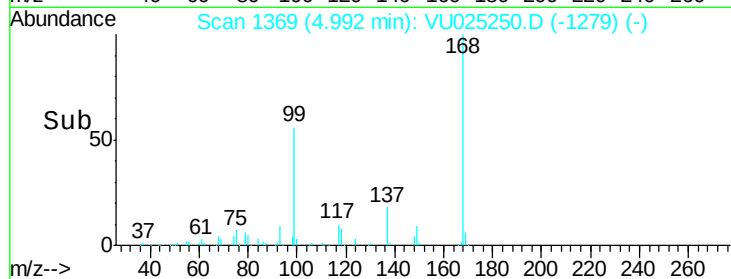
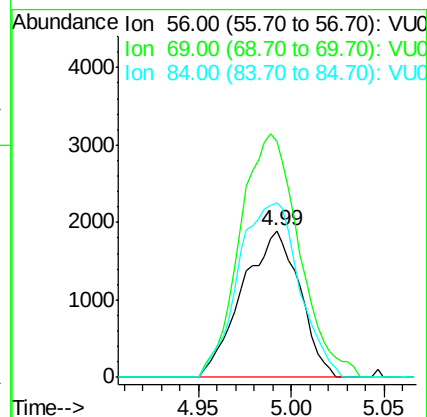
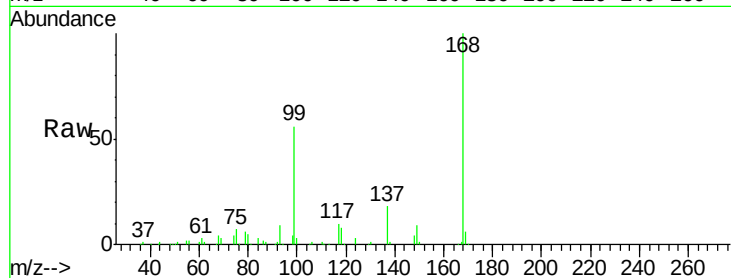




#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1369
Delta R.T. -0.01 min
Lab File: VU025250.D
Acq: 06 Jul 2018 19:17

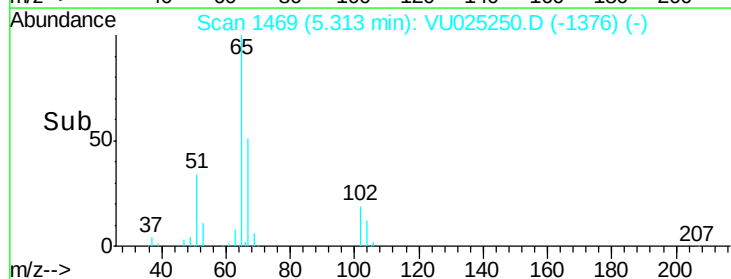
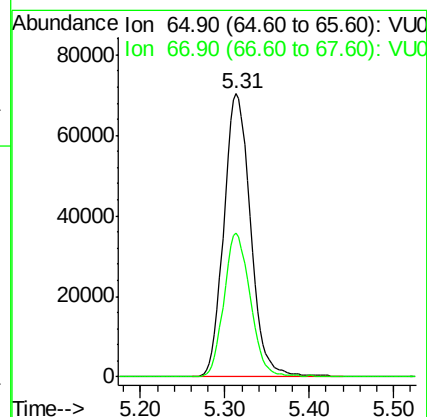
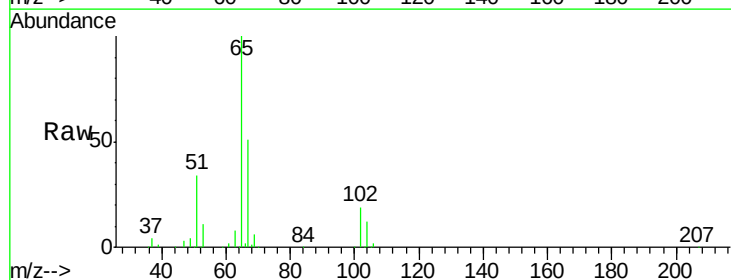
Instrument :
MSVOA_U
ClientSampleId :
WP021MW004-180628

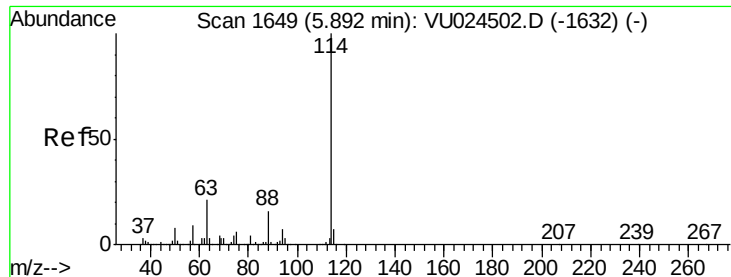
Tot Ion: 56 Resp: 4076
Ion Ratio Lower Upper
56 100
69 161.3 24.8 37.2#
84 118.9 65.2 97.8#



#33
1,2-Dichloroethane-d4
Concen: 47.312 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VU025250.D
Acq: 06 Jul 2018 19:17

Tgt Ion: 65 Resp: 155162
Ion Ratio Lower Upper
65 100
67 50.1 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.89 min Scan# 1649

Delta R.T. 0.00 min

Lab File: VU025250.D

Acq: 06 Jul 2018 19:17

Instrument :

MSVOA_U

ClientSampleId :

WP021MW004-180628

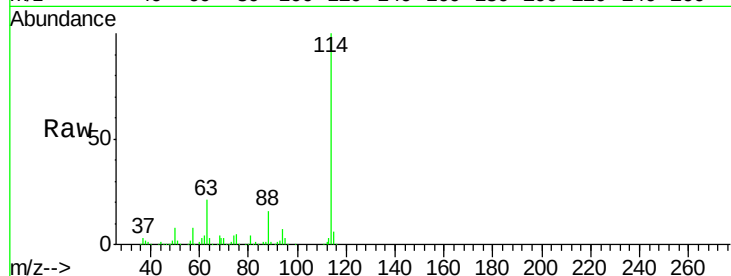
Tot Ion:114 Resp: 301605

Ion Ratio Lower Upper

114 100

63 20.9 0.0 45.4

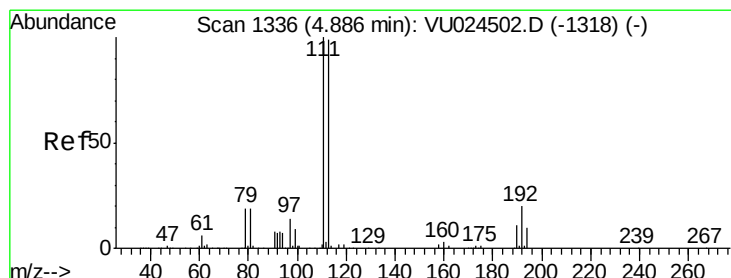
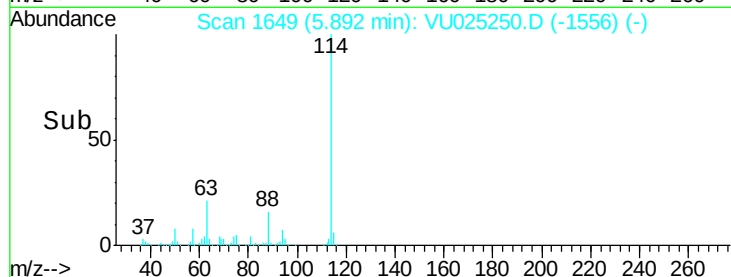
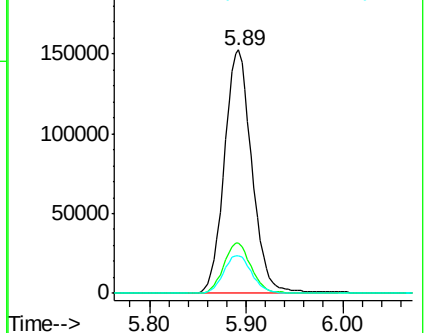
88 15.6 0.0 31.0



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



#35

Dibromofluoromethane

Concen: 47.253 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU025250.D

Acq: 06 Jul 2018 19:17

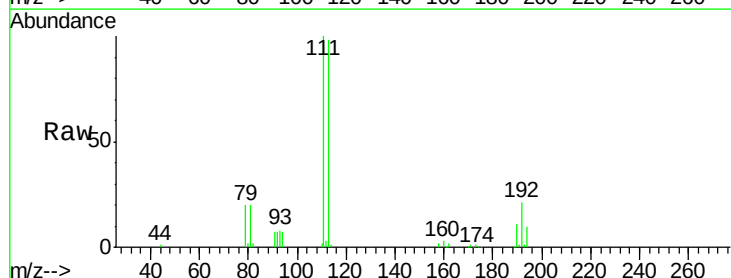
Tgt Ion:113 Resp: 118278

Ion Ratio Lower Upper

113 100

111 101.8 82.2 123.4

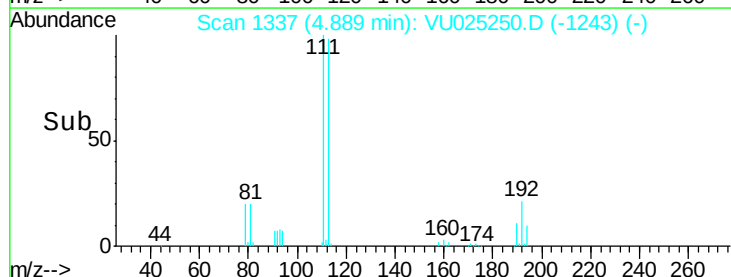
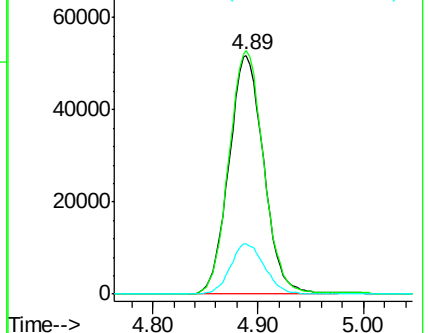
192 20.8 16.2 24.4

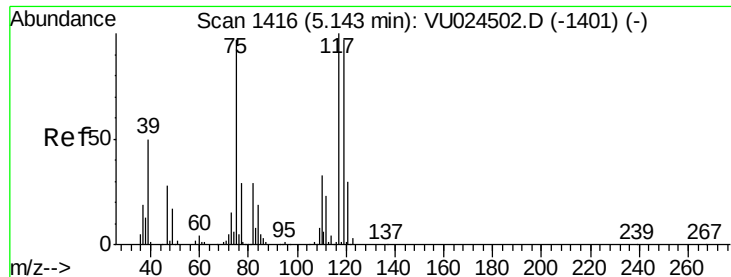


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

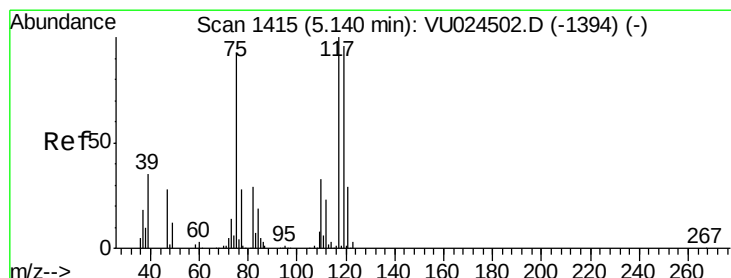
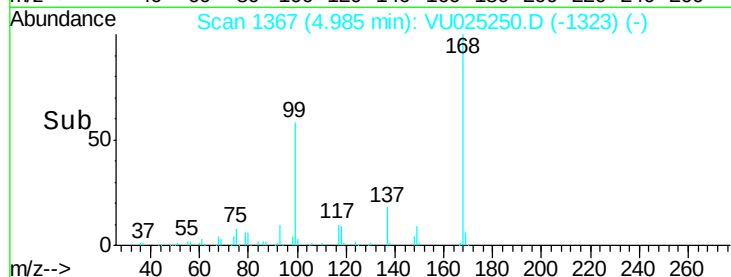
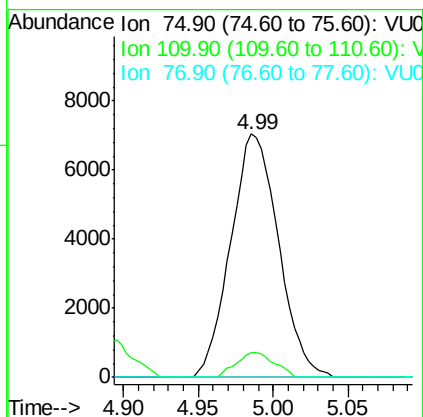
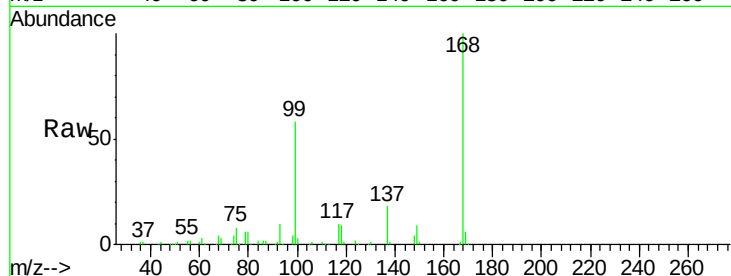




#36
 1,1-Dichloropropene
 Concen: 4.418 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.16 min
 Lab File: VU025250.D
 Acq: 06 Jul 2018 19:17

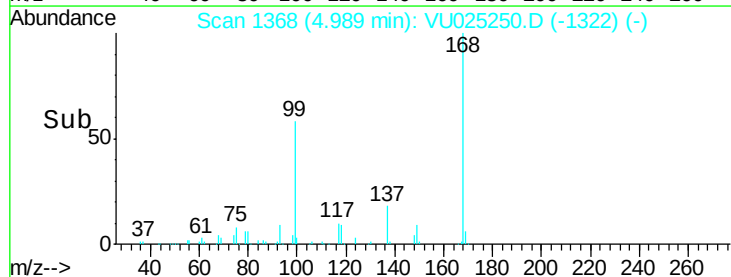
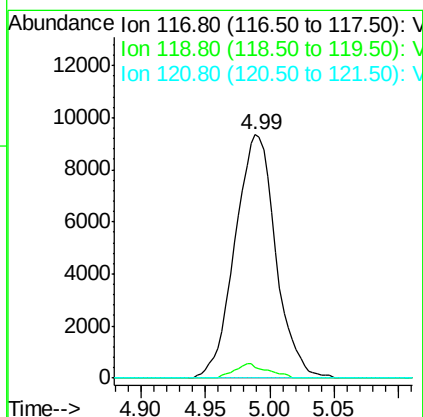
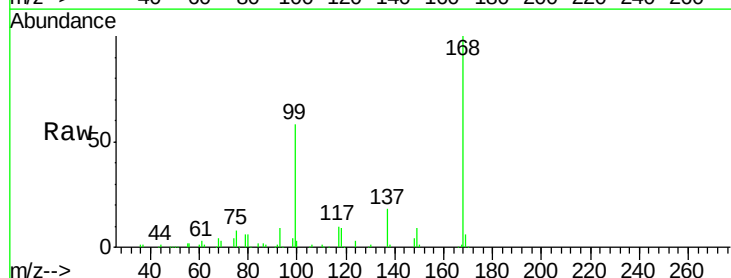
Instrument :
 MSVOA_U
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 WP021MW004-180628

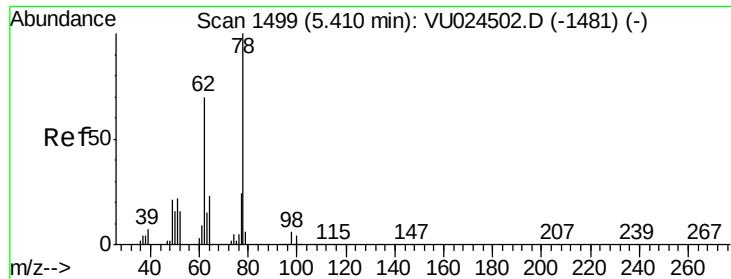
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.2	17.0	50.9#
77	0.0	24.2	36.4#



#38
 Carbon Tetrachloride
 Concen: 5.266 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU025250.D
 Acq: 06 Jul 2018 19:17

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.6	76.1	114.1#
121	0.0	23.7	35.5#

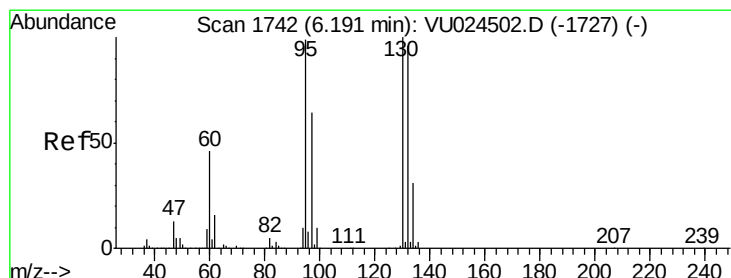
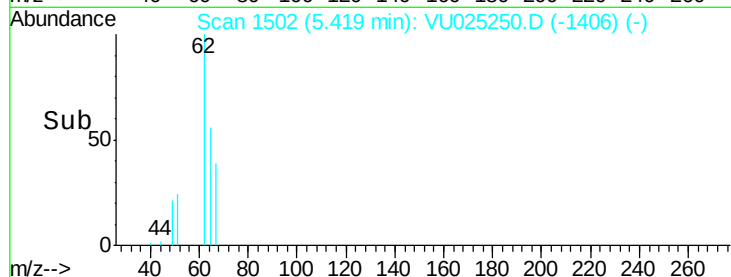
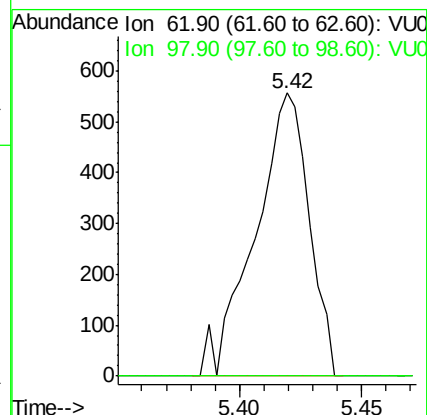
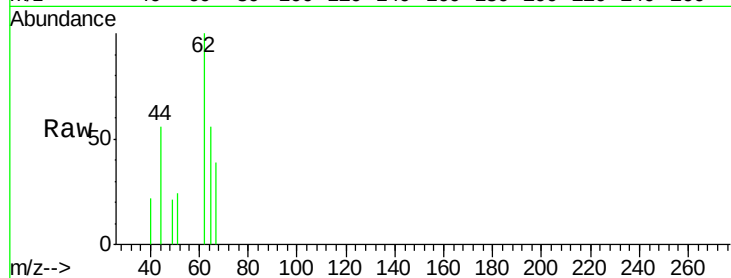




#42
 1,2-Dichloroethane
 Concen: 0.222 ug/l
 RT: 5.42 min Scan# 1502
 Delta R.T. 0.01 min
 Lab File: VU025250.D
 Acq: 06 Jul 2018 19:17

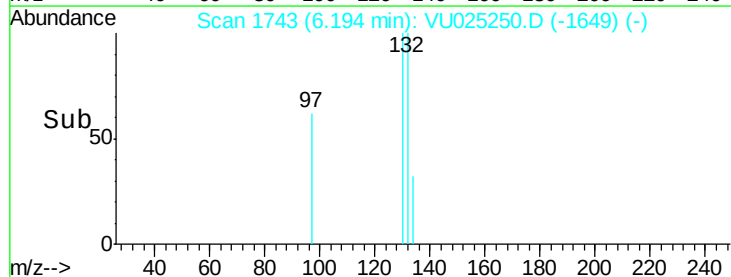
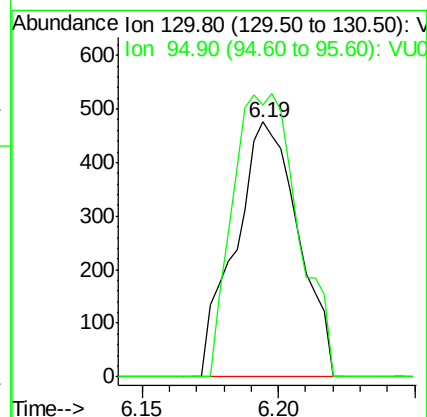
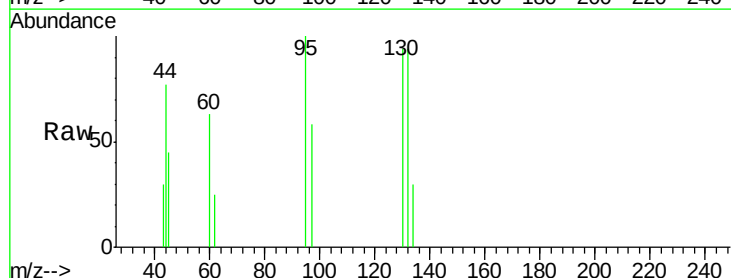
Instrument :
 MSVOA_U
 ClientSampleId :
 WP021MW004-180628

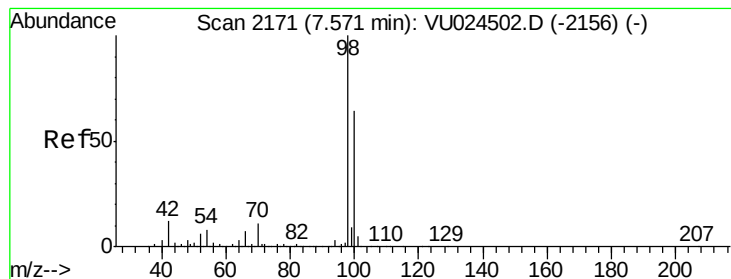
Tot Ion: 62 Resp: 854
 Ion Ratio Lower Upper
 62 100
 98 0.0 0.0 16.6



#44
 Trichloroethene
 Concen: 0.265 ug/l
 RT: 6.19 min Scan# 1743
 Delta R.T. 0.00 min
 Lab File: VU025250.D
 Acq: 06 Jul 2018 19:17

Tgt Ion: 130 Resp: 762
 Ion Ratio Lower Upper
 130 100
 95 106.5 0.0 202.4





#50

Toluene-d8

Concen: 47.855 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. 0.00 min

Lab File: VU025250.D

Acq: 06 Jul 2018 19:17

Instrument :

MSVOA_U

ClientSampleId :

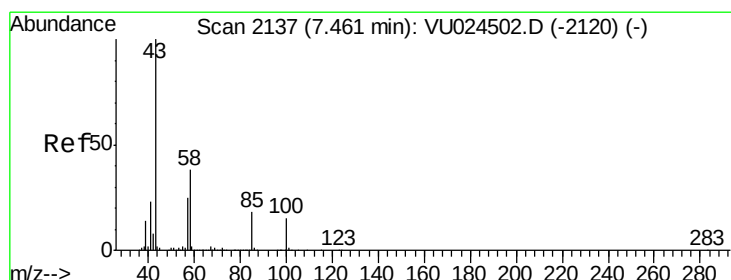
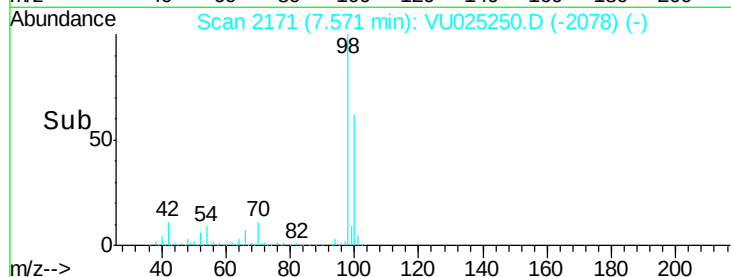
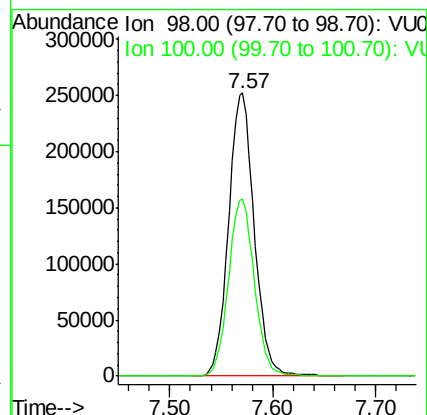
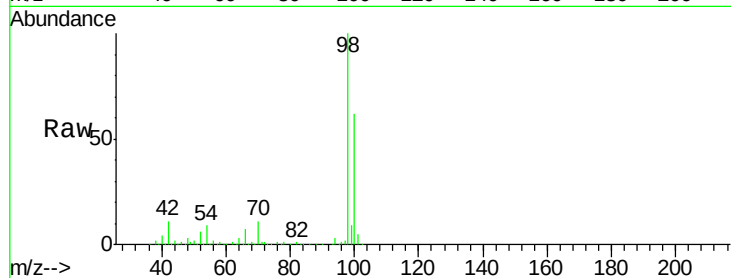
WP021MW004-180628

Tot Ion: 98 Resp: 436926

Ion Ratio Lower Upper

98 100

100 63.3 51.1 76.7



#51

4-Methyl-2-Pentanone

Concen: 0.482 ug/l

RT: 7.57 min Scan# 2172

Delta R.T. 0.11 min

Lab File: VU025250.D

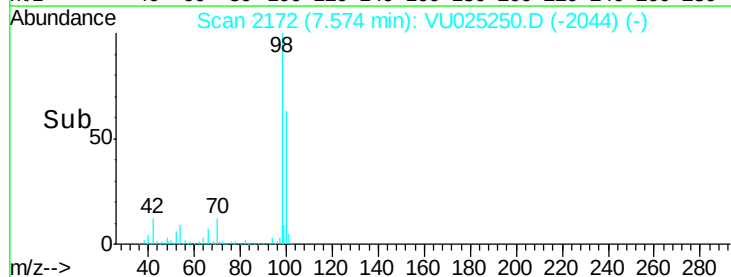
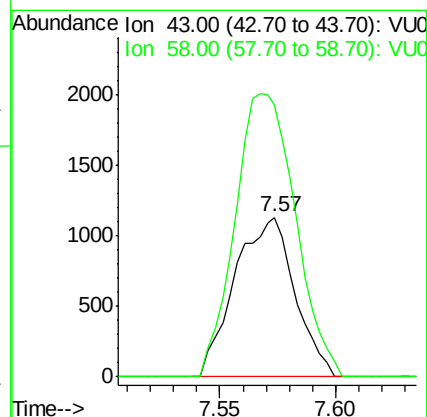
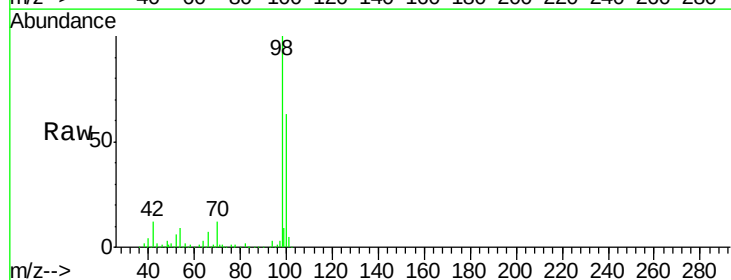
Acq: 06 Jul 2018 19:17

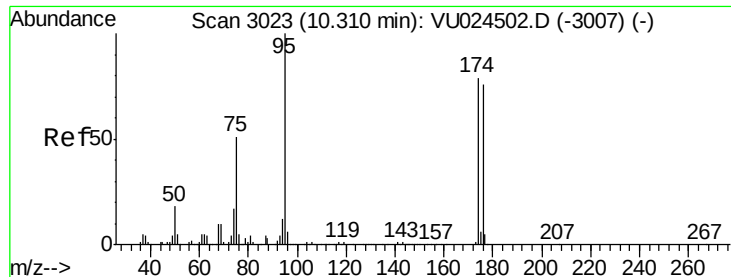
Tgt Ion: 43 Resp: 2024

Ion Ratio Lower Upper

43 100

58 178.8 30.0 45.0#

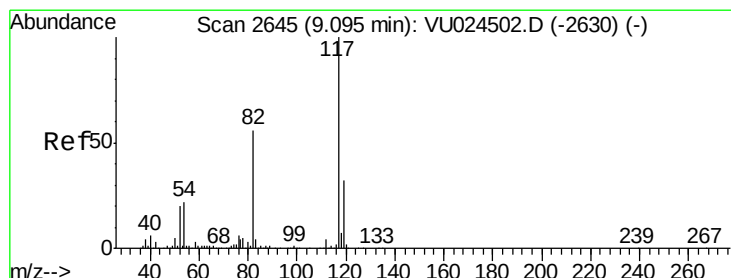
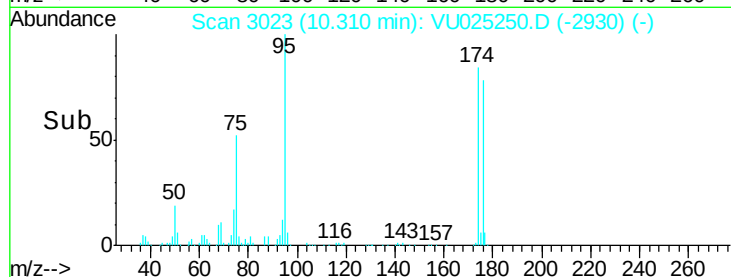
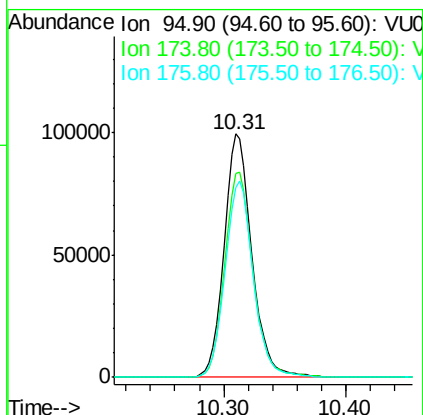
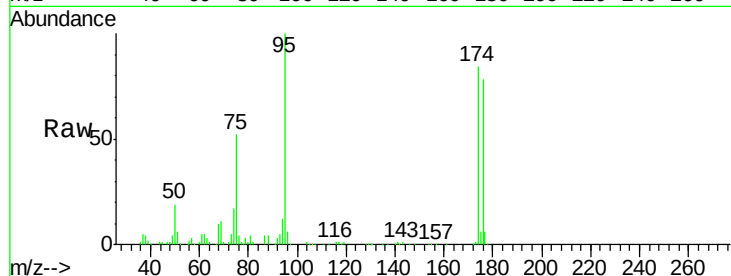




#62
4-Bromofluorobenzene
Concen: 43.819 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. 0.00 min
Lab File: VU025250.D
Acq: 06 Jul 2018 19:17

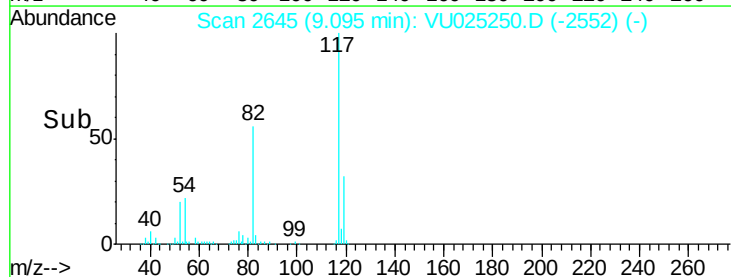
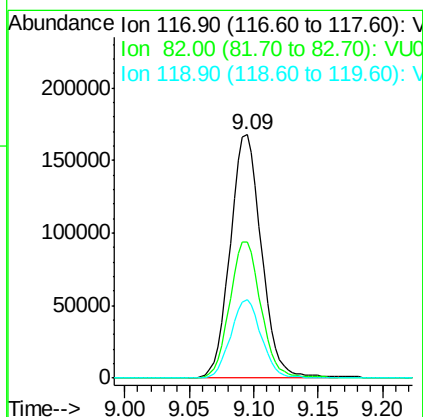
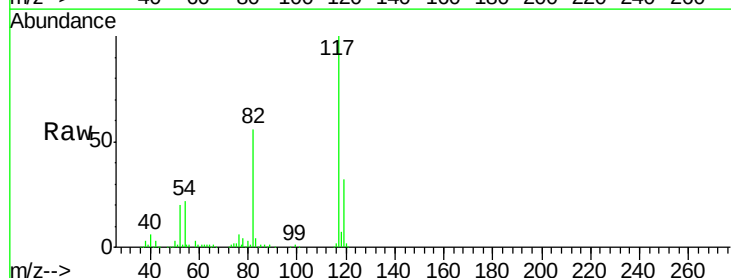
Instrument :
MSVOA_U
ClientSampleId :
WP021MW004-180628

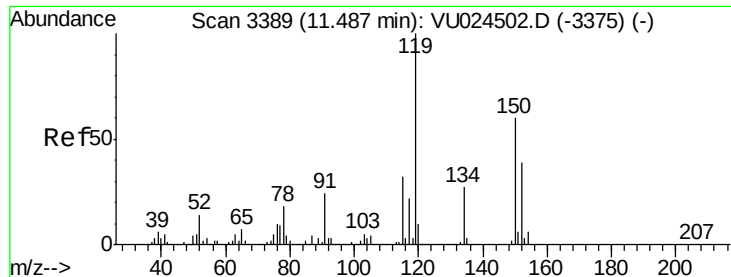
Tot Ion	95	Resp	158848
Ion Ratio	Lower	Upper	
95	100		
174	86.2	0.0	165.8
176	82.2	0.0	159.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU025250.D
Acq: 06 Jul 2018 19:17

Tgt Ion	117	Resp	282048
Ion Ratio	Lower	Upper	
117	100		
82	56.0	44.3	66.5
119	32.1	25.4	38.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU025250.D

Acq: 06 Jul 2018 19:17

Instrument :

MSVOA_U

ClientSampleId :

WP021MW004-180628

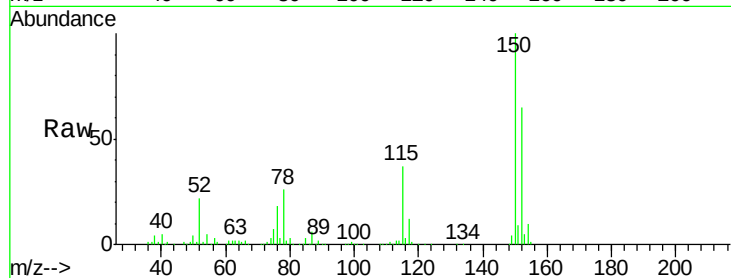
Tot Ion:152 Resp: 142672

Ion Ratio Lower Upper

152 100

115 57.0 43.0 129.0

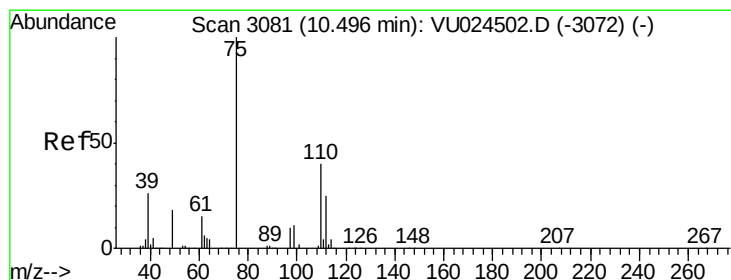
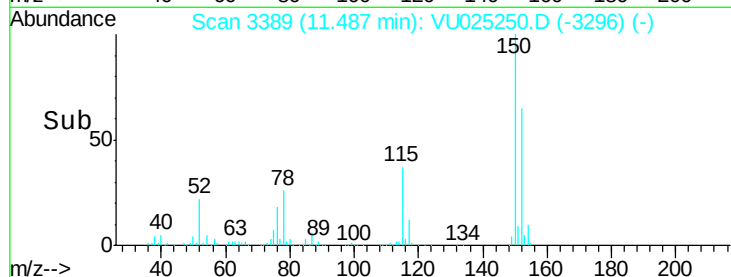
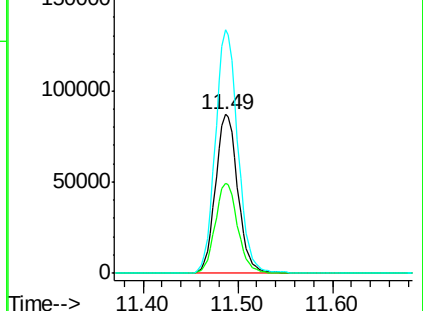
150 154.1 0.0 354.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 26.418 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025250.D

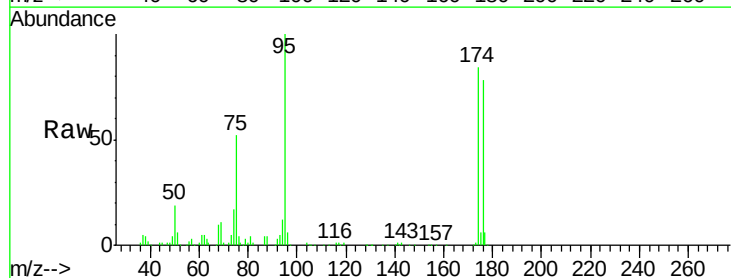
Acq: 06 Jul 2018 19:17

Tgt Ion: 75 Resp: 82982

Ion Ratio Lower Upper

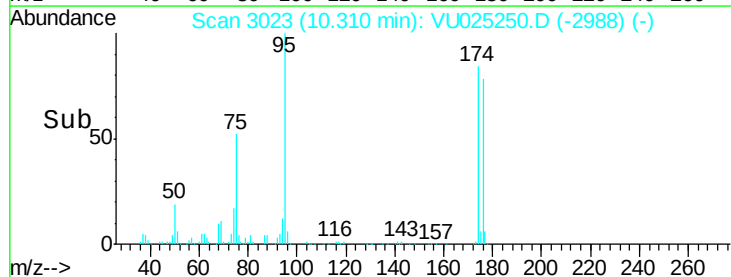
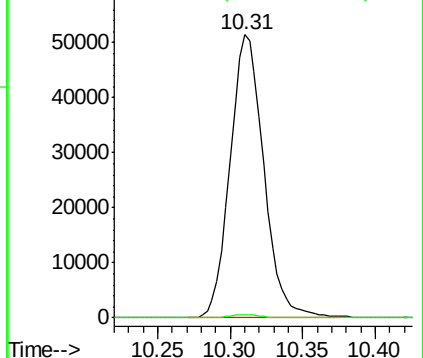
75 100

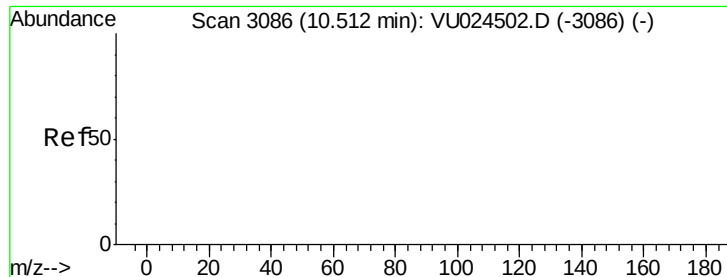
77 1.0 20.9 62.7#



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: 61.142 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU025250.D

Acq: 06 Jul 2018 19:17

Instrument :

MSVOA_U

ClientSampleId :

WP021MW004-180628

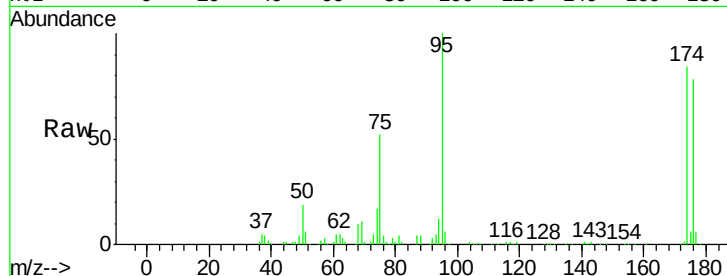
Tot Ion: 75 Resp: 82982

Ion Ratio Lower Upper

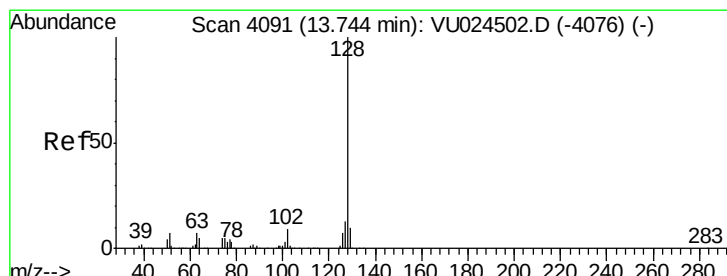
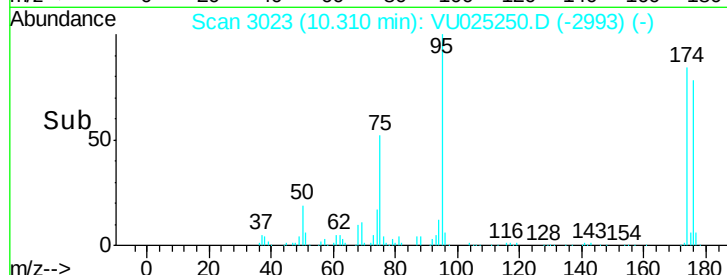
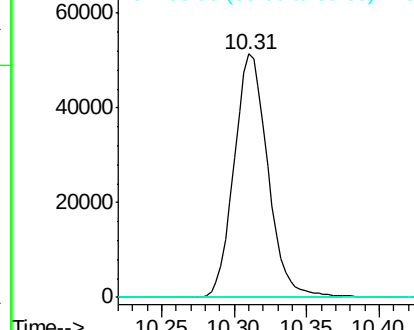
75 100

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



#95

Naphthalene

Concen: 0.693 ug/l

RT: 13.78 min Scan# 4102

Delta R.T. 0.04 min

Lab File: VU025250.D

Acq: 06 Jul 2018 19:17

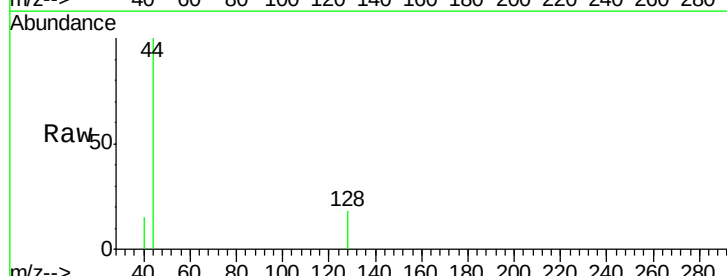
Tgt Ion: 128 Resp: 146

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

