

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062318\
 Data File : VU024840.D
 Acq On : 22 Jun 2018 17:57
 Operator : MD/SY
 Sample : VU0623WBL01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0623WBL01

Quant Time: Jun 23 02:14:01 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	224231	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	340419	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	313910	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	166783	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	163250	44.60	ug/l	0.00
Spiked Amount			Recovery	=	89.20%	
35) Dibromofluoromethane	4.89	113	133629	47.30	ug/l	0.00
Spiked Amount			Recovery	=	94.60%	
50) Toluene-d8	7.57	98	496425	48.17	ug/l	0.00
Spiked Amount			Recovery	=	96.34%	
62) 4-Bromofluorobenzene	10.31	95	180893	44.21	ug/l	0.00
Spiked Amount			Recovery	=	88.42%	

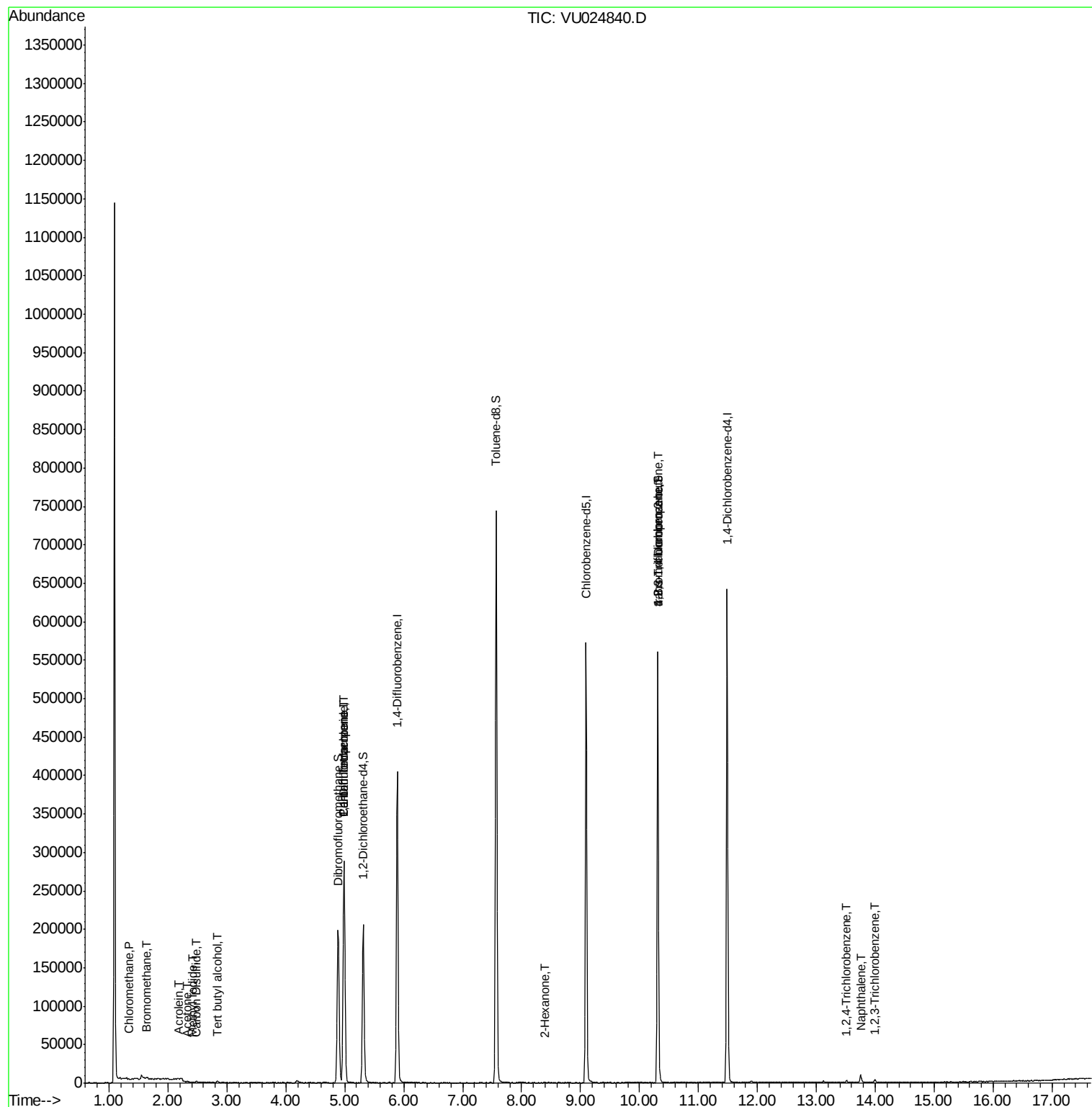
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1285	0.45	ug/l	97
5) Bromomethane	1.63	94	1178	0.82	ug/l	# 80
6) Chloroethane	1.71	64	41	Below Cal	#	43
10) Methyl Iodide	2.41	142	216	5.37	ug/l	# 63
11) Tert butyl alcohol	2.83	59	1270	1.43	ug/l	# 82
13) Acrolein	2.19	56	155	0.33	ug/l	# 13
16) Acetone	2.32	43	591	0.30	ug/l	# 81
17) Carbon Disulfide	2.48	76	1640	0.20	ug/l	97
31) Cyclohexane	4.99	56	4504	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	15783	3.95	ug/l	# 51
38) Carbon Tetrachloride	4.99	117	21441	4.87	ug/l	# 16
59) 2-Hexanone	8.38	43	826	0.21	ug/l	# 29
76) 1,2,3-Trichloropropane	10.31	75	92015	25.06	ug/l	# 36
81) trans-1,4-Dichloro-2-buten	10.31	75	92015	58.00	ug/l	# 100
93) 1,2,4-Trichlorobenzene	13.51	180	1220	0.33	ug/l	93
95) Naphthalene	13.75	128	10215	1.50	ug/l	97
96) 1,2,3-Trichlorobenzene	13.99	180	1558	0.42	ug/l	89

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.00 min

Lab File: VU024840.D

Acq: 22 Jun 2018 17:57

Instrument :

MSVOA_U

ClientSampleId :

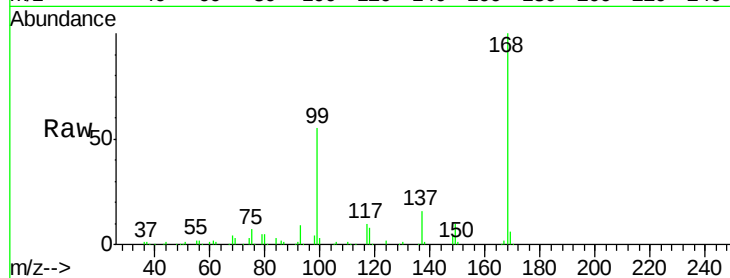
VU0623WBL01

Tot Ion:168 Resp: 224231

Ion Ratio Lower Upper

168 100

99 55.2 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024840.D (-1275) (-)

Ion 98.90 (98.60 to 99.60): VU024840.D (-1275) (-)

4.99

100000

80000

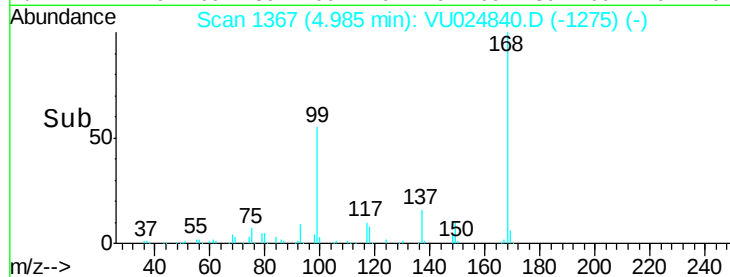
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.45 ug/l

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU024840.D

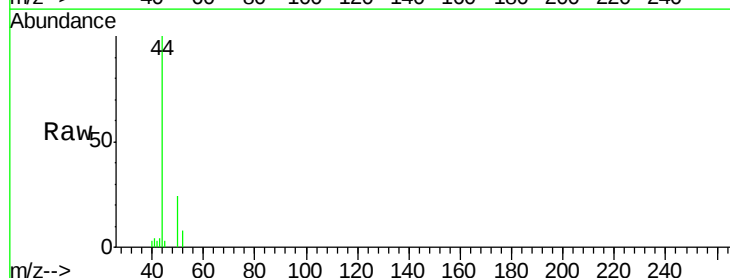
Acq: 22 Jun 2018 17:57

Tgt Ion: 50 Resp: 1285

Ion Ratio Lower Upper

50 100

52 31.4 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VU024840.D (-137) (-)

Ion 51.90 (51.60 to 52.60): VU024840.D (-137) (-)

1.33

1000

800

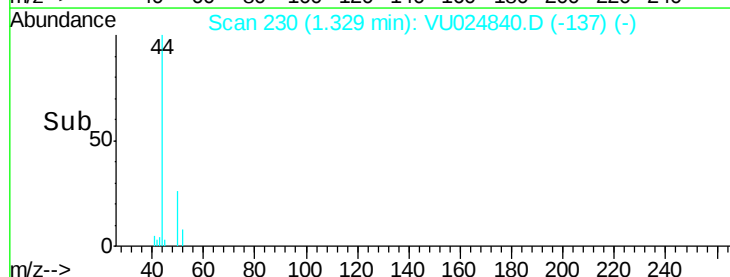
600

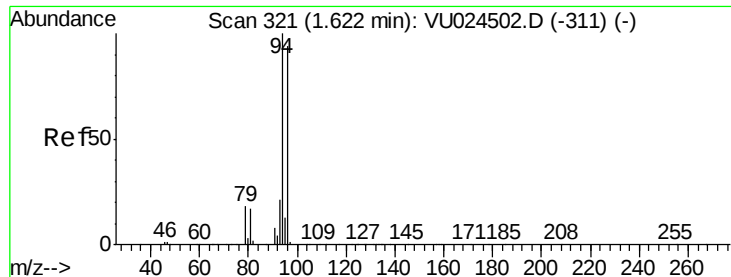
400

200

0

Time-->





#5

Bromomethane

Concen: 0.82 ug/l

RT: 1.63 min Scan# 325

Delta R.T. 0.01 min

Lab File: VU024840.D

Acq: 22 Jun 2018 17:57

Instrument :

MSVOA_U

ClientSampleId :

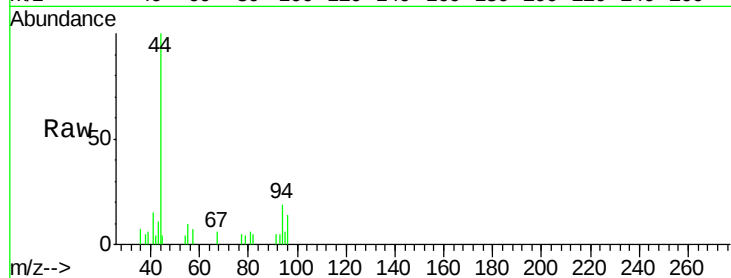
VU0623WBL01

Tot Ion: 94 Resp: 1178

Ion Ratio Lower Upper

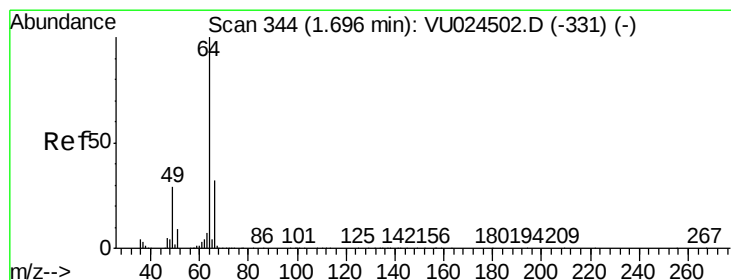
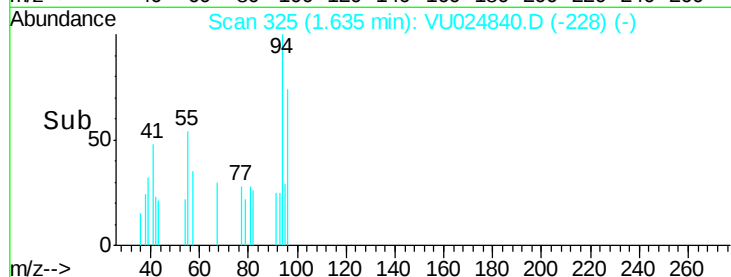
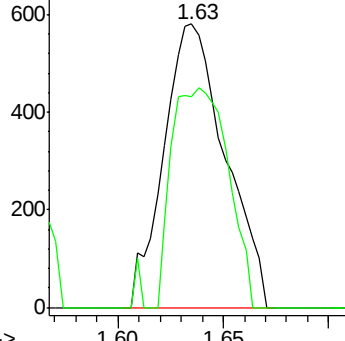
94 100

96 74.4 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: 1.71 min Scan# 347

Delta R.T. 0.01 min

Lab File: VU024840.D

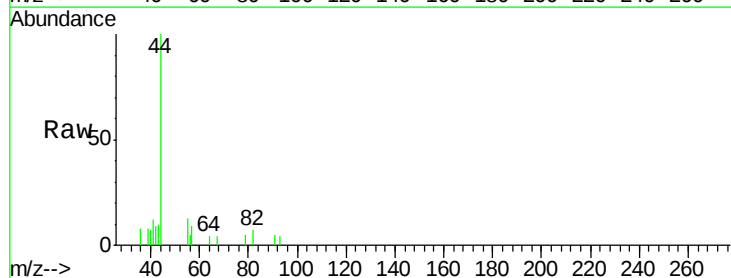
Acq: 22 Jun 2018 17:57

Tgt Ion: 64 Resp: 41

Ion Ratio Lower Upper

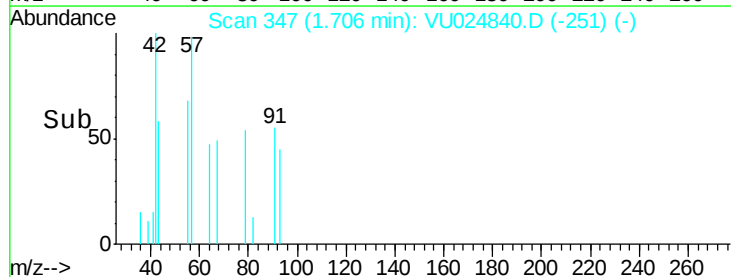
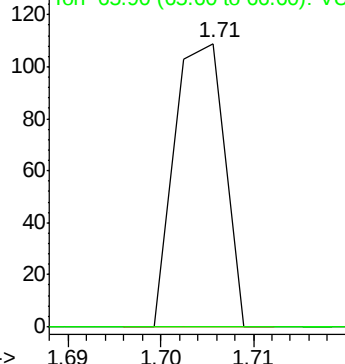
64 100

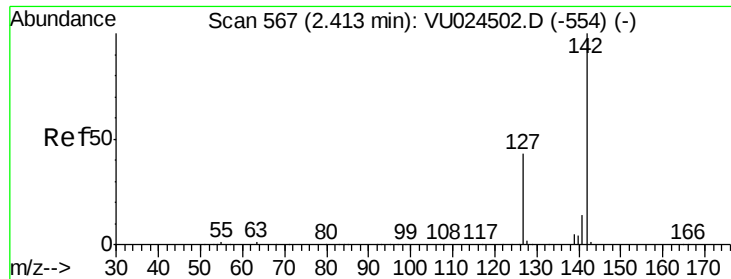
66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0

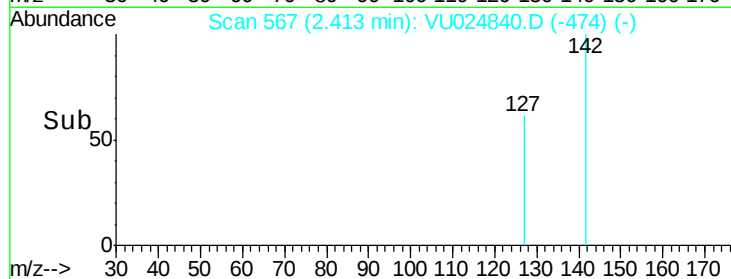
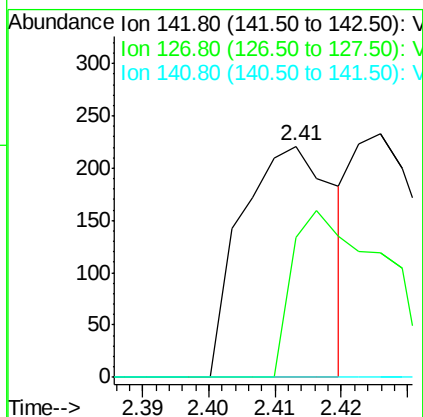
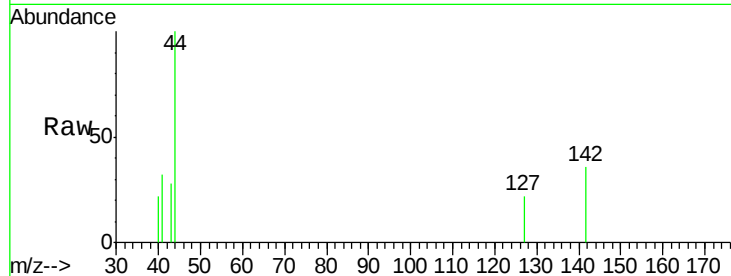




#10
Methvl Iodide
Concen: 5.37 ug/l
RT: 2.41 min Scan# 567
Delta R.T. 0.00 min
Lab File: VU024840.D
Acq: 22 Jun 2018 17:57

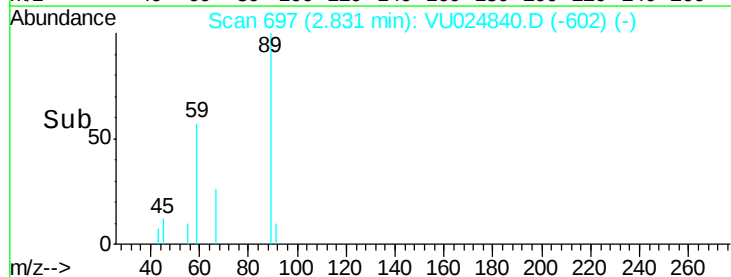
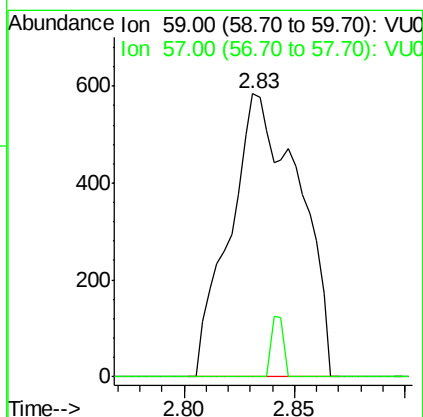
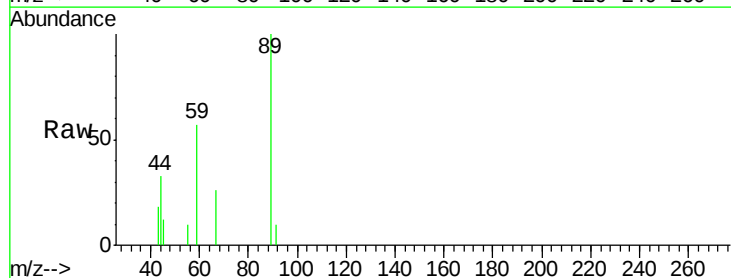
Instrument :
MSVOA_U
ClientSampleId :
VU0623WBL01

Tot Ion:142 Resp: 216
Ion Ratio Lower Upper
142 100
127 69.0 35.6 53.4#
141 0.0 11.7 17.5#



#11
Tert butyl alcohol
Concen: 1.43 ug/l
RT: 2.83 min Scan# 697
Delta R.T. 0.01 min
Lab File: VU024840.D
Acq: 22 Jun 2018 17:57

Tgt Ion: 59 Resp: 1270
Ion Ratio Lower Upper
59 100
57 3.8 8.5 12.7#

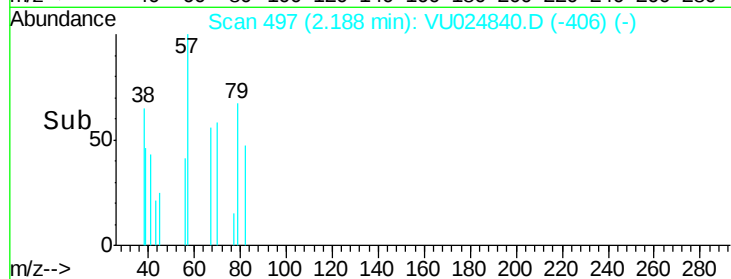
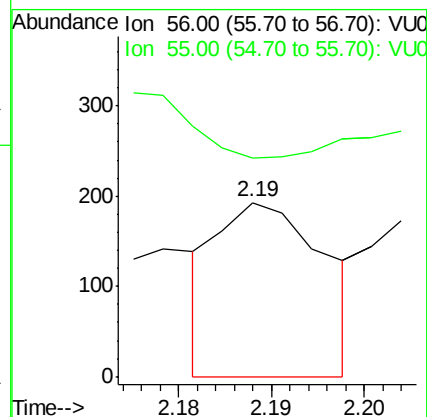
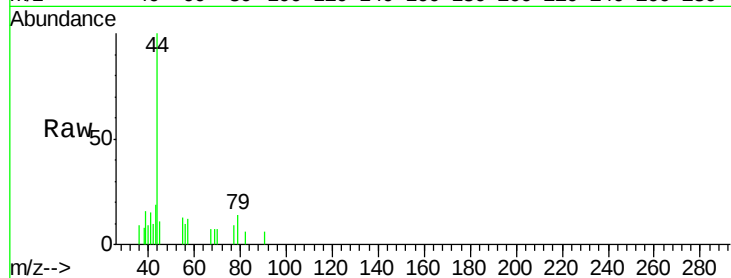




#13
Acrolein
Concen: 0.33 ug/l
RT: 2.19 min Scan# 497
Delta R.T. -0.01 min
Lab File: VU024840.D
Acq: 22 Jun 2018 17:57

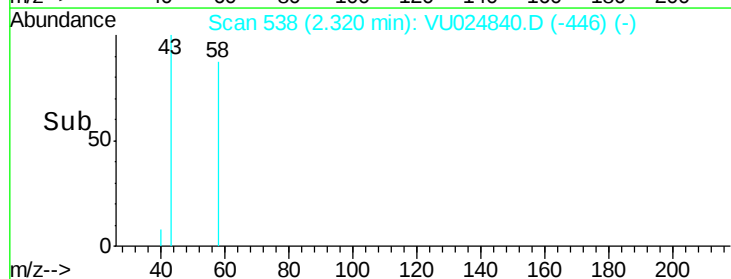
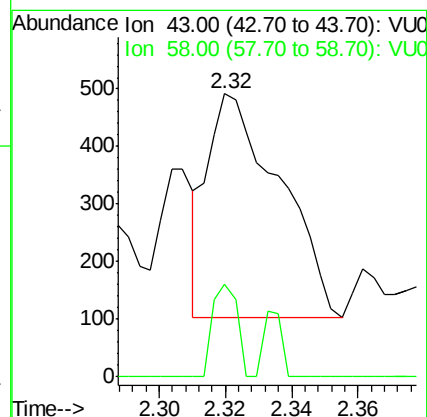
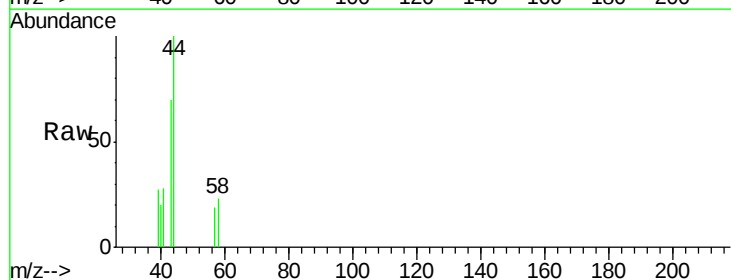
Instrument :
MSVOA_U
ClientSampleId :
VU0623WBL01

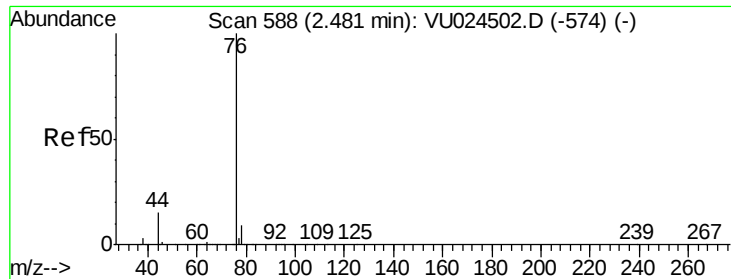
Tot Ion: 56 Resp: 155
Ion Ratio Lower Upper
56 100
55 0.0 58.4 87.6#



#16
Acetone
Concen: 0.30 ug/l
RT: 2.32 min Scan# 538
Delta R.T. -0.00 min
Lab File: VU024840.D
Acq: 22 Jun 2018 17:57

Tgt Ion: 43 Resp: 591
Ion Ratio Lower Upper
43 100
58 41.0 24.4 36.6#





#17

Carbon Disulfide

Concen: 0.20 ug/l

RT: 2.48 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU024840.D

Acq: 22 Jun 2018 17:57

Instrument :

MSVOA_U

ClientSampleId :

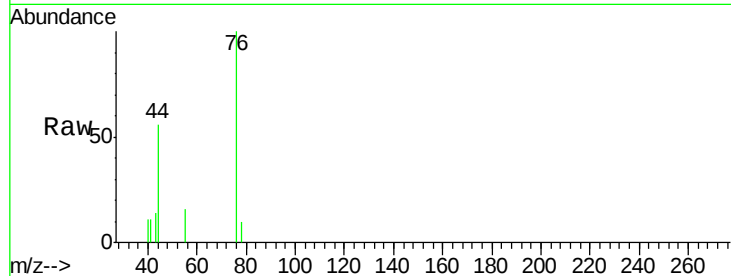
VU0623WBL01

Tot Ion: 76 Resp: 1640

Ion Ratio Lower Upper

76 100

78 10.2 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0

2.48

1200

1000

800

600

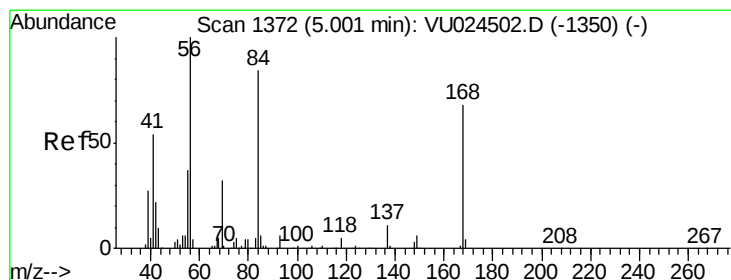
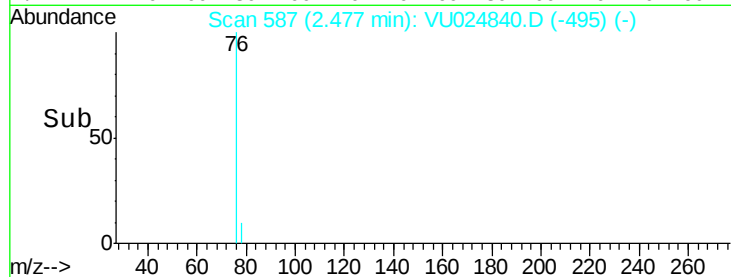
400

200

0

2.45 2.50

Time-->



#31

Cyclohexane

Concen: Below Cal

RT: 4.99 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VU024840.D

Acq: 22 Jun 2018 17:57

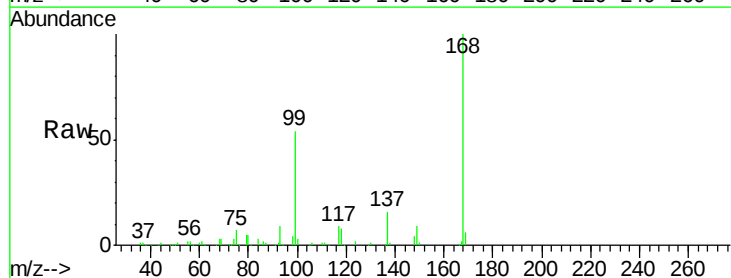
Tgt Ion: 56 Resp: 4504

Ion Ratio Lower Upper

56 100

69 176.0 24.8 37.2#

84 152.4 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

4000

3000

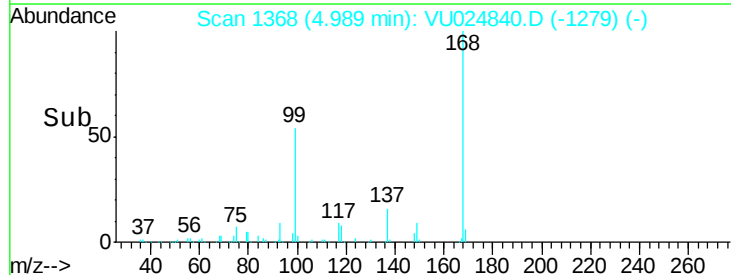
2000

1000

0

4.95 5.00 5.05

Time-->

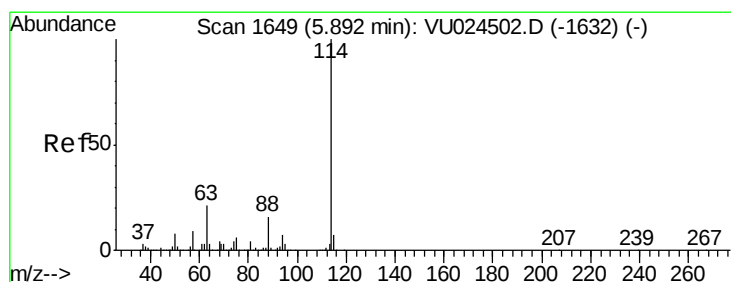
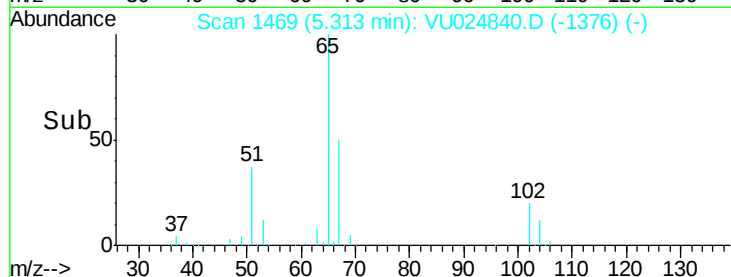
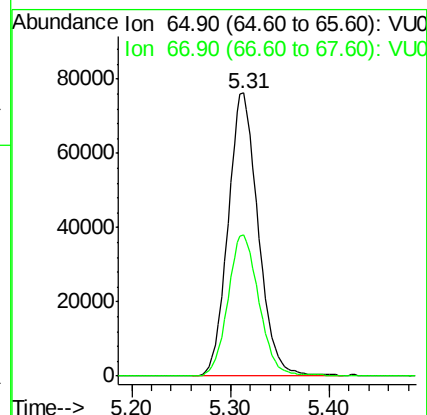
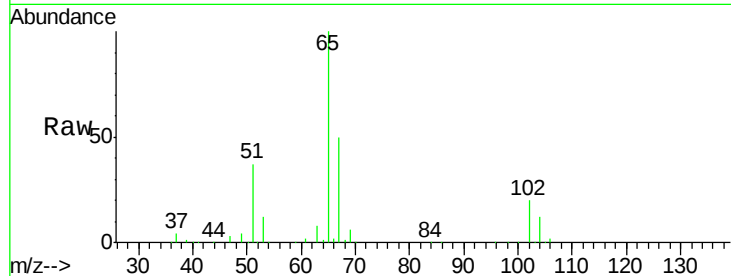




#33
 1,2-Dichloroethane-d4
 Concen: 44.60 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. -0.00 min
 Lab File: VU024840.D
 Acq: 22 Jun 2018 17:57

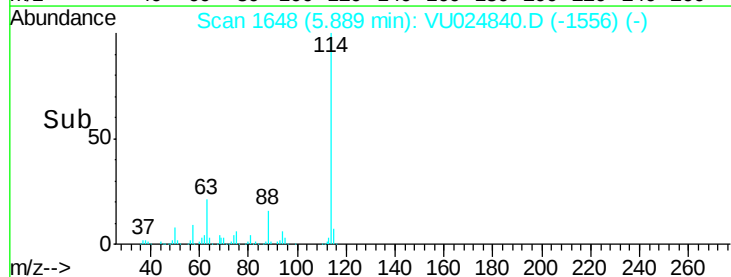
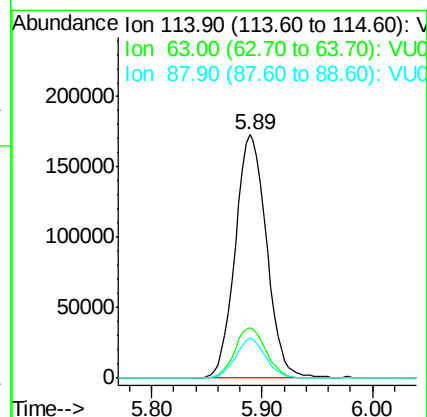
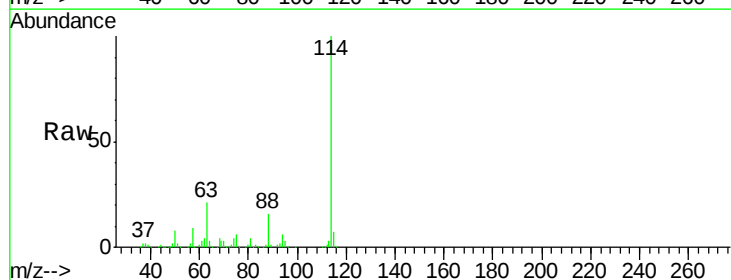
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0623WBL01

Tot Ion: 65 Resp: 163250
 Ion Ratio Lower Upper
 65 100
 67 51.2 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.89 min Scan# 1648
 Delta R.T. -0.00 min
 Lab File: VU024840.D
 Acq: 22 Jun 2018 17:57

Tgt Ion: 114 Resp: 340419
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 45.4
 88 16.3 0.0 31.0

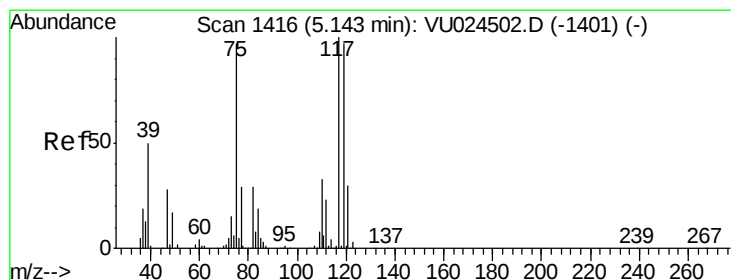
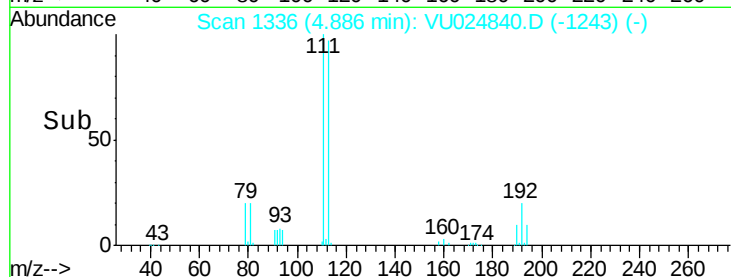
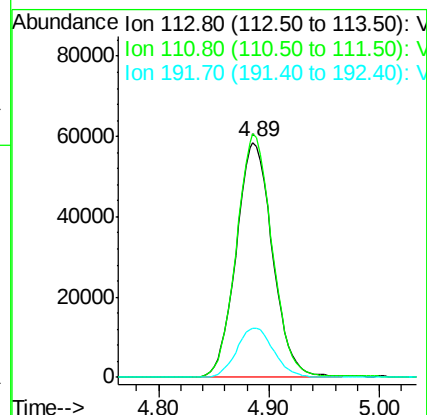
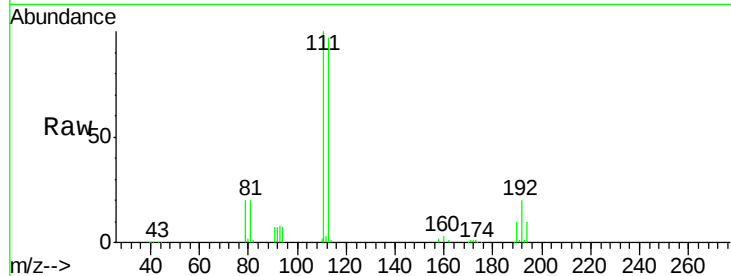




#35
 Dibromofluoromethane
 Concen: 47.30 ug/l
 RT: 4.89 min Scan# 1336
 Delta R.T. -0.00 min
 Lab File: VU024840.D
 Acq: 22 Jun 2018 17:57

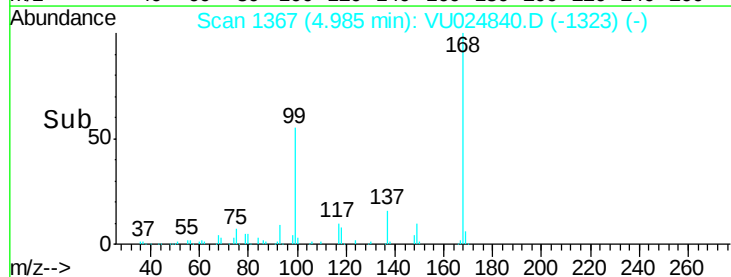
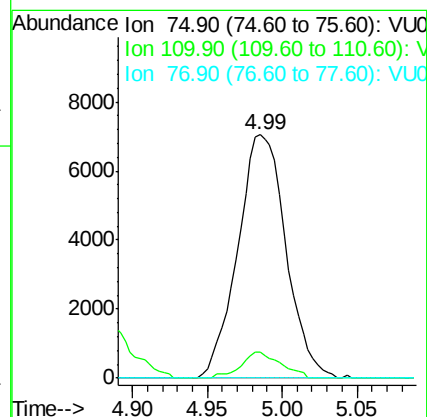
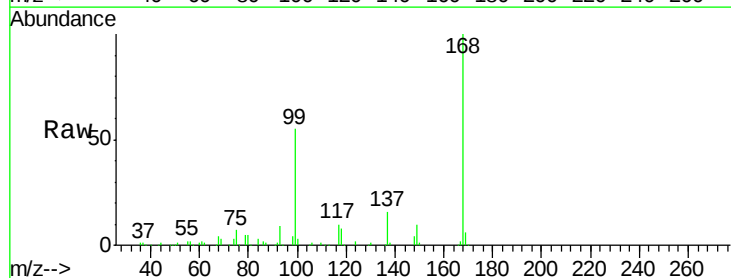
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0623WBL01

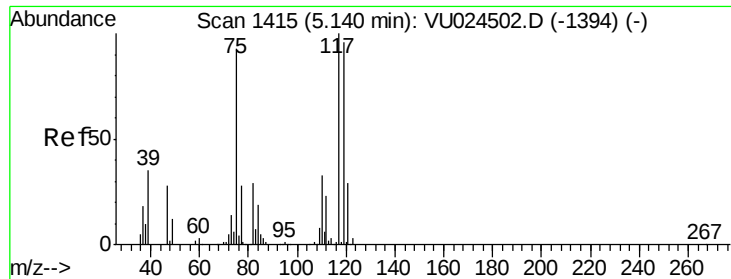
Tot Ion:113 Resp: 133629
 Ion Ratio Lower Upper
 113 100
 111 101.6 82.2 123.4
 192 21.3 16.2 24.4



#36
 1,1-Dichloropropene
 Concen: 3.95 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.16 min
 Lab File: VU024840.D
 Acq: 22 Jun 2018 17:57

Tgt Ion: 75 Resp: 15783
 Ion Ratio Lower Upper
 75 100
 110 8.8 17.0 50.9#
 77 0.0 24.2 36.4#





#38

Carbon Tetrachloride

Concen: 4.87 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.15 min

Lab File: VU024840.D

Acq: 22 Jun 2018 17:57

Instrument :

MSVOA_U

ClientSampleId :

VU0623WBL01

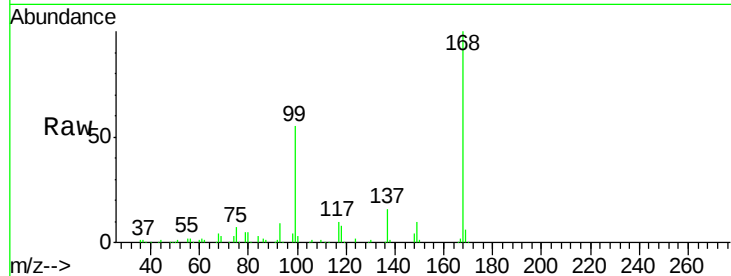
Tot Ion:117 Resp: 21441

Ion Ratio Lower Upper

117 100

119 4.4 76.1 114.1#

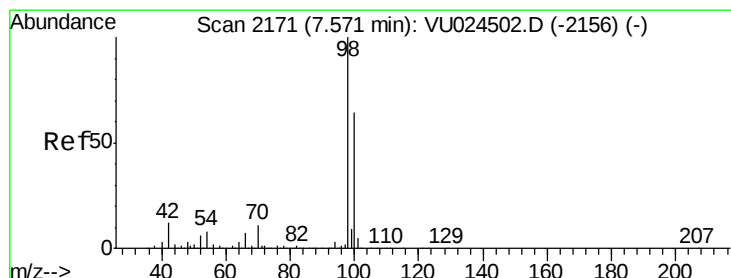
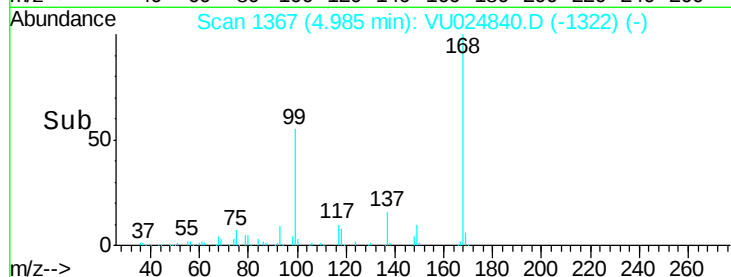
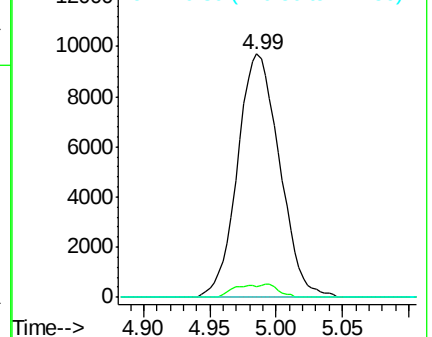
121 0.0 23.7 35.5#



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



#50

Toluene-d8

Concen: 48.17 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VU024840.D

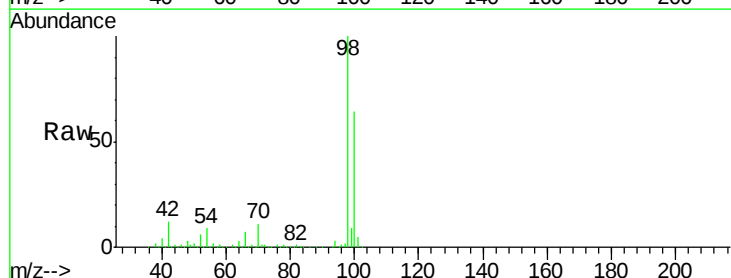
Acq: 22 Jun 2018 17:57

Tgt Ion: 98 Resp: 496425

Ion Ratio Lower Upper

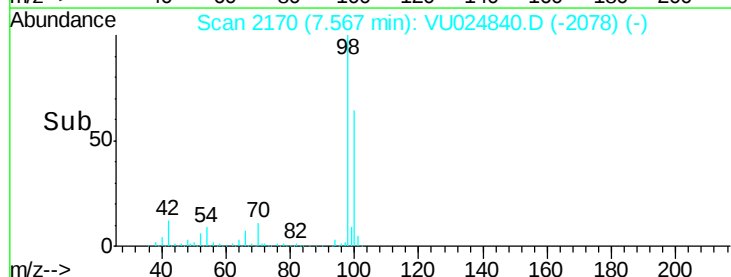
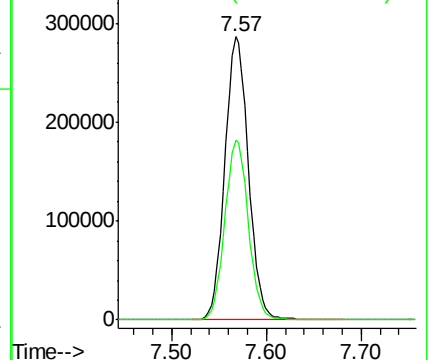
98 100

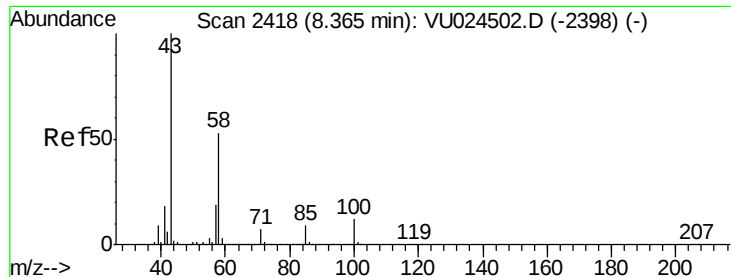
100 63.4 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU





#59

2-Hexanone

Concen: 0.21 ug/l

RT: 8.38 min Scan# 2424

Delta R.T. 0.02 min

Lab File: VU024840.D

Acq: 22 Jun 2018 17:57

Instrument :

MSVOA_U

ClientSampleId :

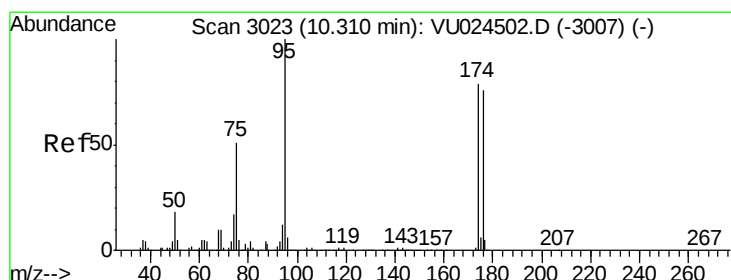
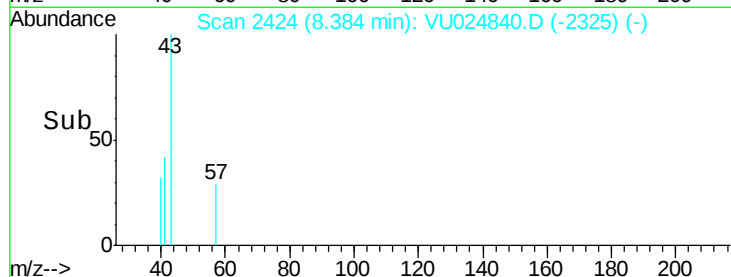
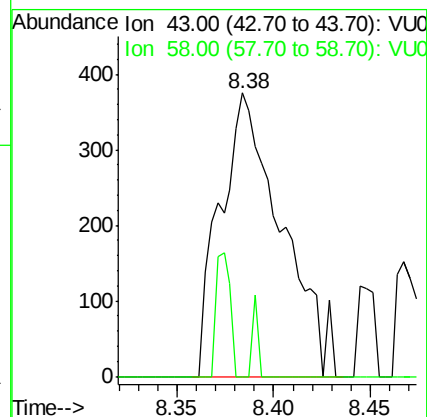
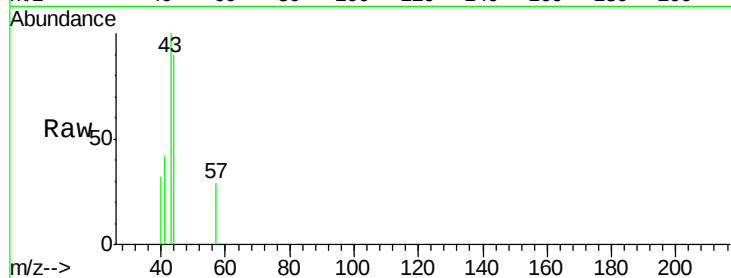
VU0623WBL01

Tot Ion: 43 Resp: 826

Ion Ratio Lower Upper

43 100

58 2.5 26.4 79.0#



#62

4-Bromofluorobenzene

Concen: 44.21 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.00 min

Lab File: VU024840.D

Acq: 22 Jun 2018 17:57

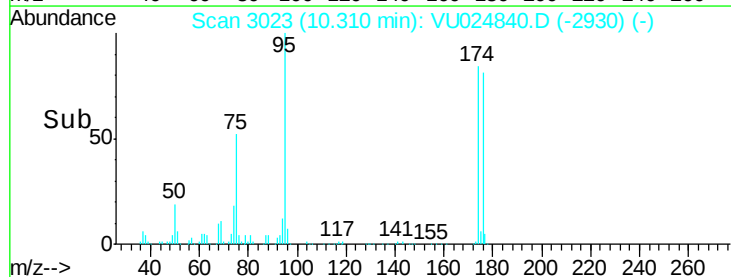
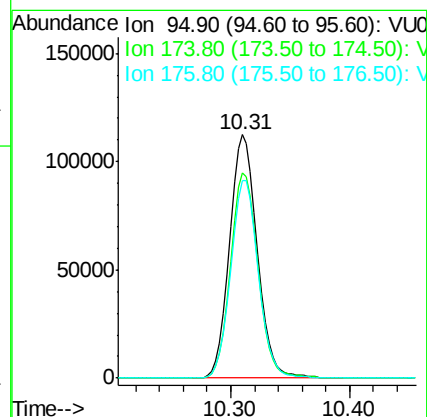
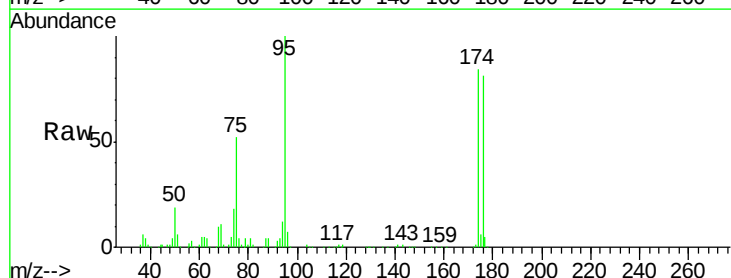
Tgt Ion: 95 Resp: 180893

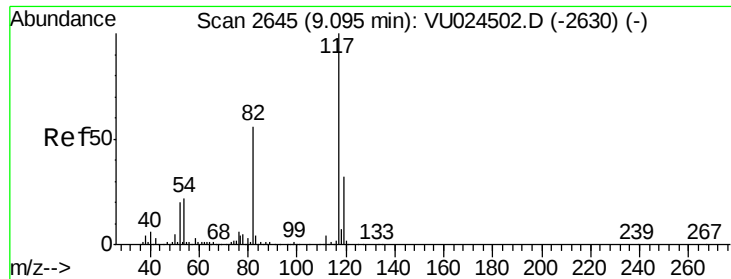
Ion Ratio Lower Upper

95 100

174 84.2 0.0 165.8

176 81.2 0.0 159.4

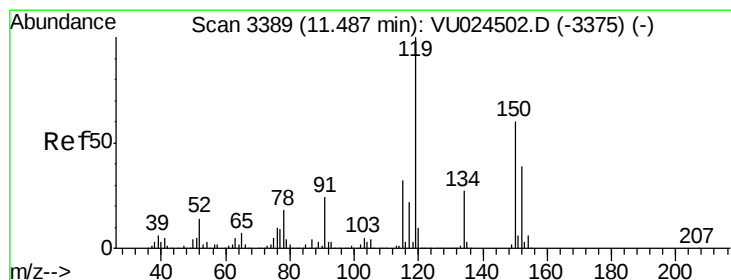
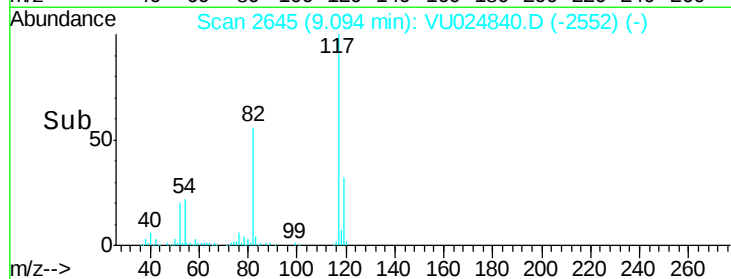
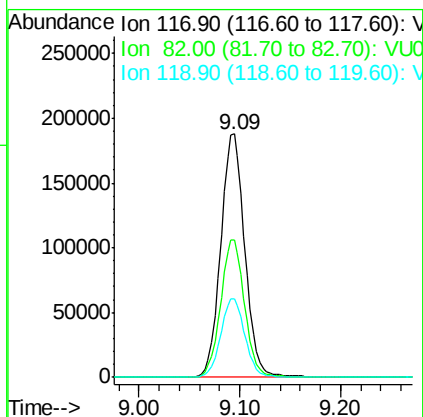
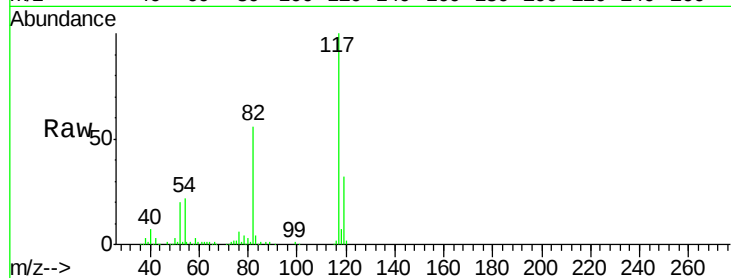




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. -0.00 min
Lab File: VU024840.D
Acq: 22 Jun 2018 17:57

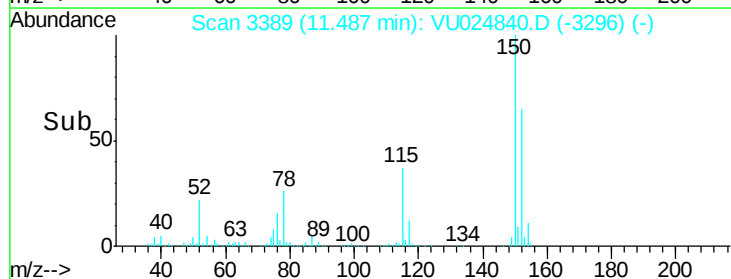
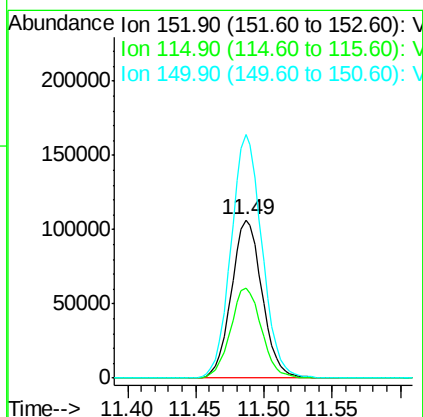
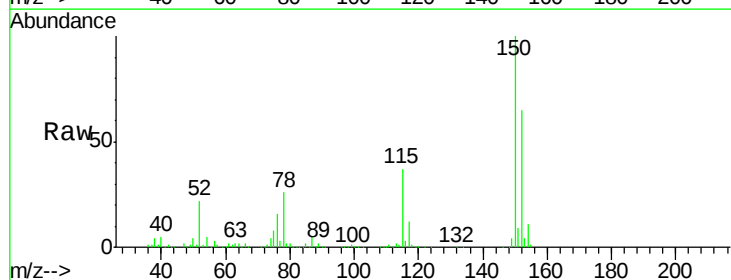
Instrument :
MSVOA_U
ClientSampleId :
VU0623WBL01

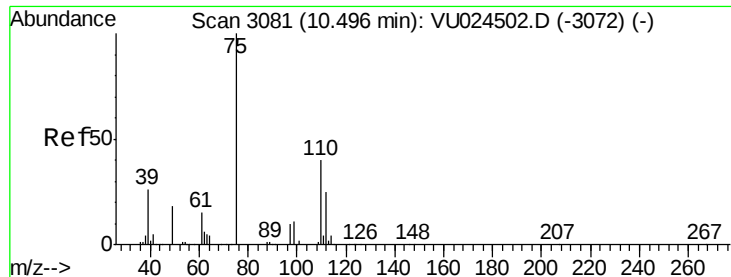
Tot Ion	Ratio	Lower	Upper
117	100		
82	56.3	44.3	66.5
119	32.3	25.4	38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. -0.00 min
Lab File: VU024840.D
Acq: 22 Jun 2018 17:57

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.5	43.0	129.0
150	155.1	0.0	354.0

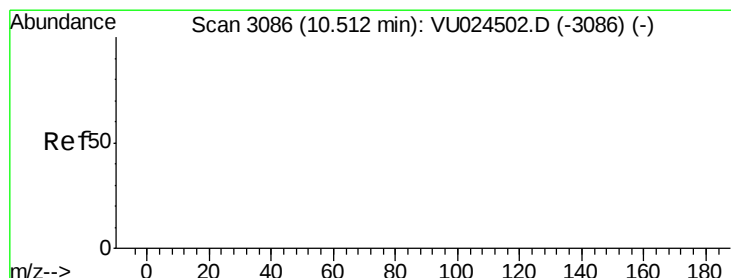
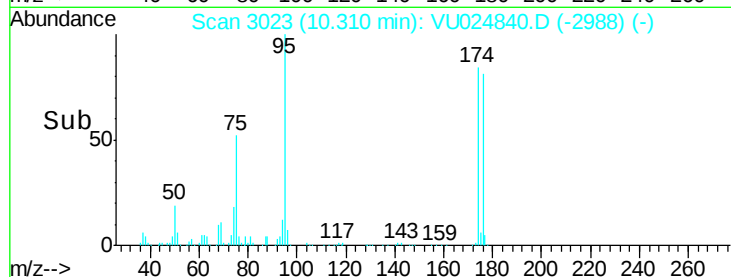
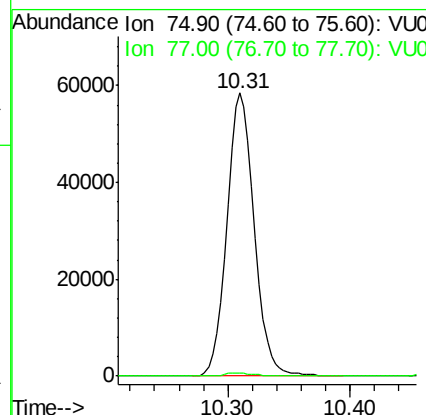
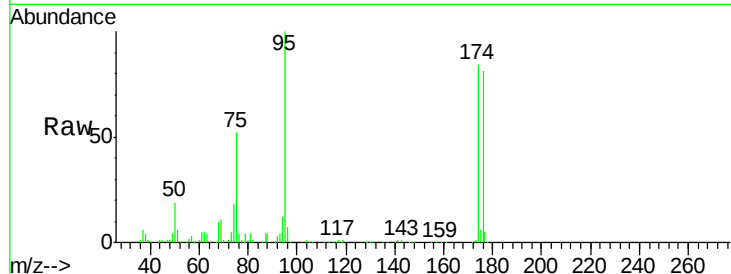




#76
 1,2,3-Trichloropropane
 Concen: 25.06 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. -0.19 min
 Lab File: VU024840.D
 Acq: 22 Jun 2018 17:57

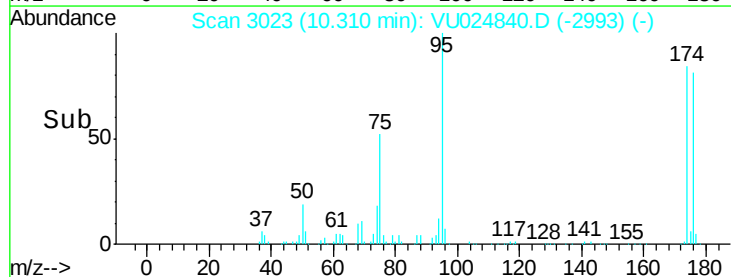
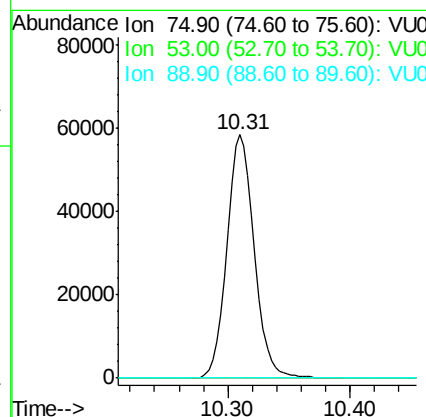
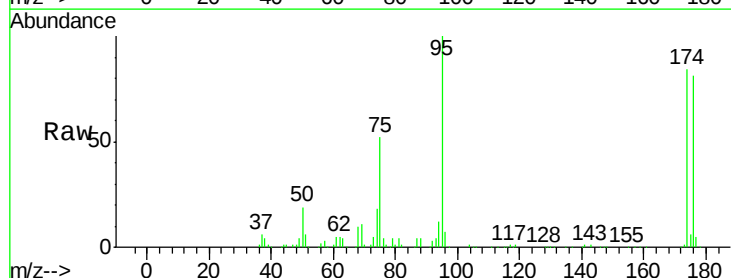
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0623WBL01

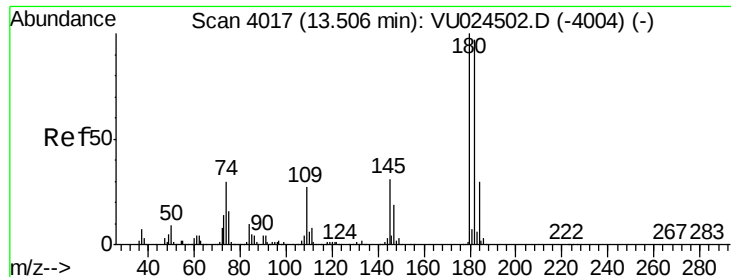
Tot Ion: 75 Resp: 92015
 Ion Ratio Lower Upper
 75 100
 77 1.1 20.9 62.7#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 58.00 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. -0.20 min
 Lab File: VU024840.D
 Acq: 22 Jun 2018 17:57

Tgt Ion: 75 Resp: 92015
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.0 0.0 0.0

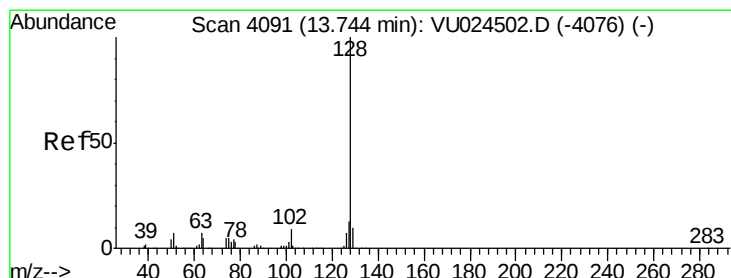
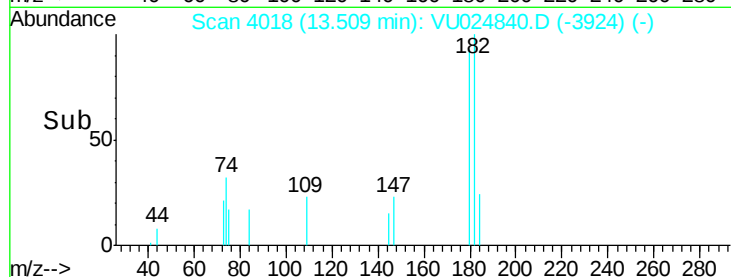
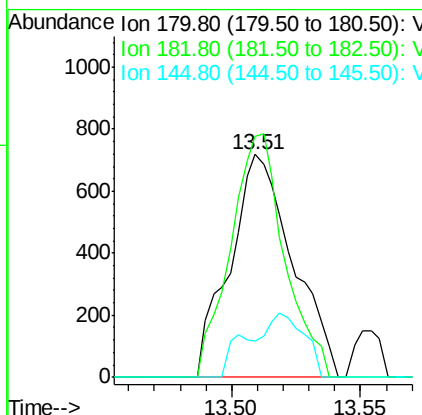
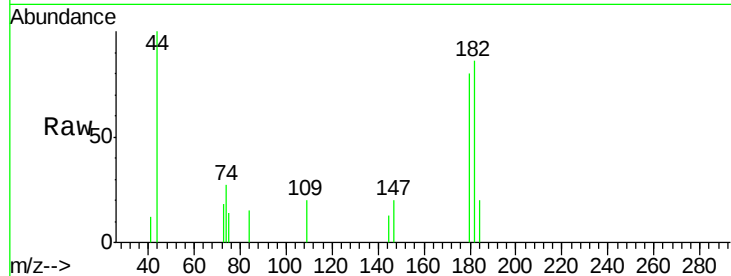




#93
 1,2,4-Trichlorobenzene
 Concen: 0.33 ug/l
 RT: 13.51 min Scan# 4018
 Delta R.T. 0.00 min
 Lab File: VU024840.D
 Acq: 22 Jun 2018 17:57

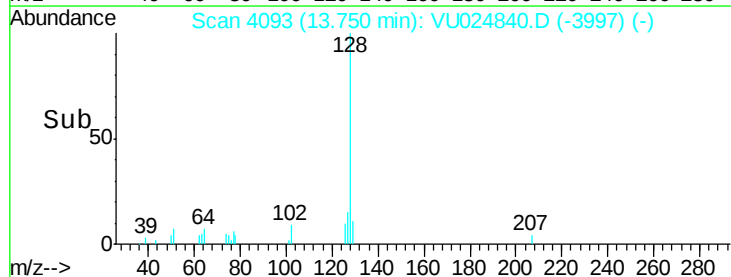
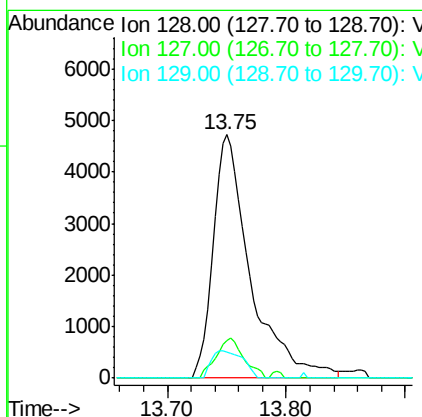
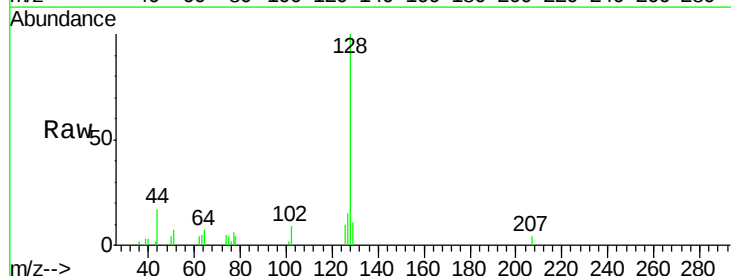
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0623WBL01

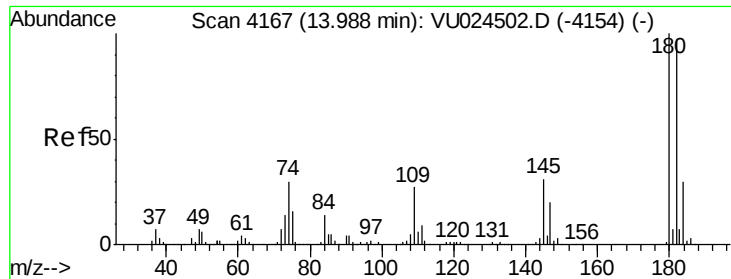
Tot Ion:180 Resp: 1220
 Ion Ratio Lower Upper
 180 100
 182 94.0 48.0 144.2
 145 17.7 14.7 44.1



#95
 Naphthalene
 Concen: 1.50 ug/l
 RT: 13.75 min Scan# 4093
 Delta R.T. 0.01 min
 Lab File: VU024840.D
 Acq: 22 Jun 2018 17:57

Tgt Ion:128 Resp: 10215
 Ion Ratio Lower Upper
 128 100
 127 12.2 10.6 16.0
 129 9.5 8.6 12.8





#96

1,2,3-Trichlorobenzene

Concen: 0.42 ug/l

RT: 13.99 min Scan# 4169

Delta R.T. 0.01 min

Lab File: VU024840.D

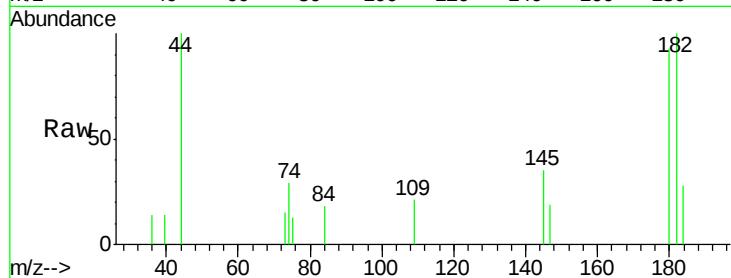
Acq: 22 Jun 2018 17:57

Instrument :

MSVOA_U

ClientSampleId :

VU0623WBL01



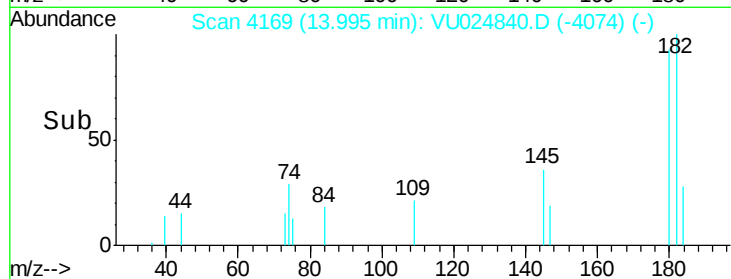
Tot Ion:180 Resp: 1558

Ion Ratio Lower Upper

180 100

182 106.5 47.9 143.7

145 36.5 15.4 46.1



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

