

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU061318\
 Data File : VU024513.D
 Acq On : 13 Jun 2018 17:22
 Operator : MD/SY
 Sample : PB110190ZHE#12
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB110190ZHE#12

Quant Time: Jun 14 02:18:54 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	184474	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	313564	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	305550	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	175112	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.32	65	146780	48.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.48%	
35) Dibromofluoromethane	4.89	113	127038	48.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.64%	
50) Toluene-d8	7.57	98	462886	48.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.52%	
62) 4-Bromofluorobenzene	10.31	95	184274	48.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.78%	

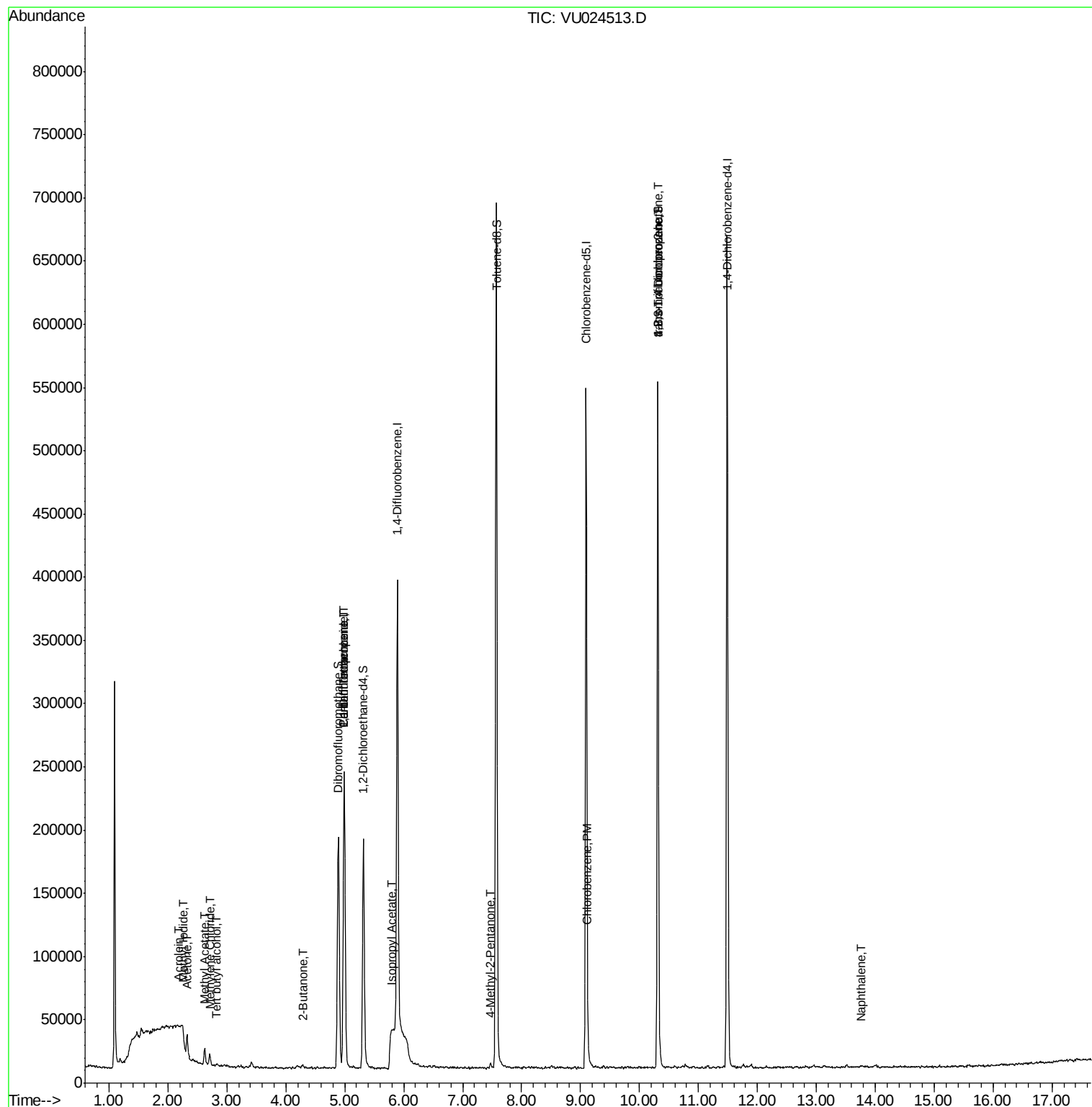
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.70	64	329	Below Cal	#	43
8) Diethyl Ether	2.19	74	268	Below Cal		83
10) Methyl Iodide	2.26	142	19	5.30	ug/l #	1
11) Tert butyl alcohol	2.83	59	1295	1.77	ug/l	95
13) Acrolein	2.18	56	298	0.77	ug/l #	1
16) Acetone	2.32	43	17253	10.66	ug/l	99
18) Methyl Acetate	2.62	43	16663	4.80	ug/l	98
20) Methylene Chloride	2.71	84	3663	1.44	ug/l	95
25) 2-Butanone	4.29	43	2901	1.33	ug/l	96
31) Cyclohexane	4.99	56	4004	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	13485	3.66	ug/l #	53
38) Carbon Tetrachloride	4.99	117	17440	4.30	ug/l #	16
43) Isopropyl Acetate	5.80	43	29212	4.21	ug/l #	64
51) 4-Methyl-2-Pentanone	7.47	43	2042	0.47	ug/l #	58
65) Chlorobenzene	9.13	112	5145	0.66	ug/l	93
76) 1,2,3-Trichloropropane	10.31	75	92784	24.07	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	92784	55.70	ug/l #	100
95) Naphthalene	13.77	128	1812	0.82	ug/l #	84

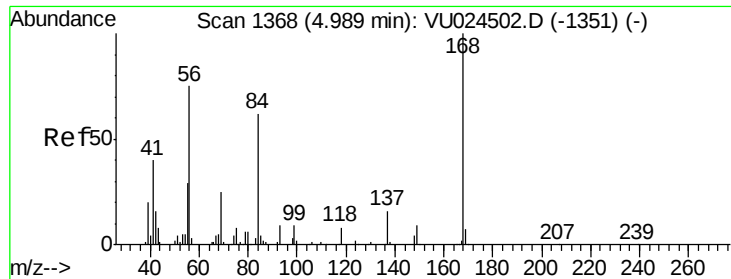
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU024513.D

Acq: 13 Jun 2018 17:22

Instrument :

MSVOA_U

ClientSampleId :

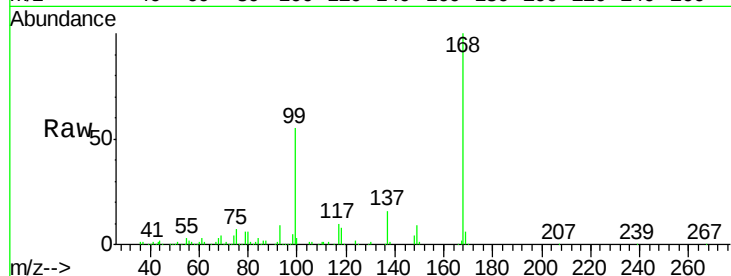
PB110190ZHE#12

Tgt Ion:168 Resp: 184474

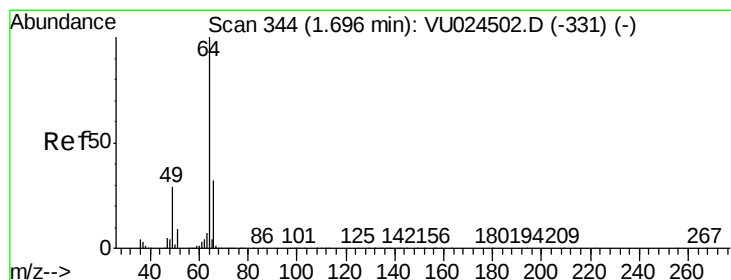
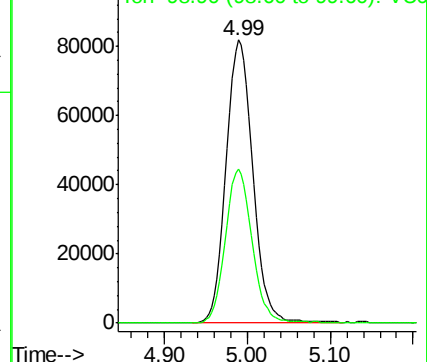
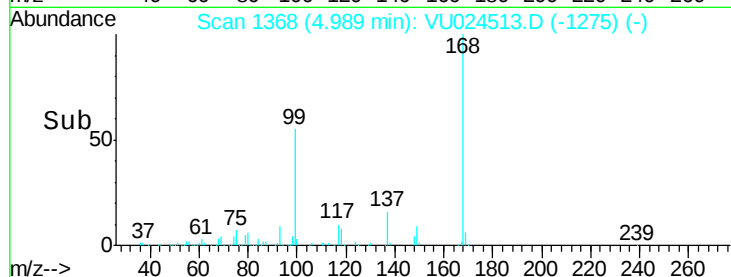
Ion Ratio Lower Upper

168 100

99 54.4 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024513.D (-1275) (-)



#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 346

Delta R.T. 0.01 min

Lab File: VU024513.D

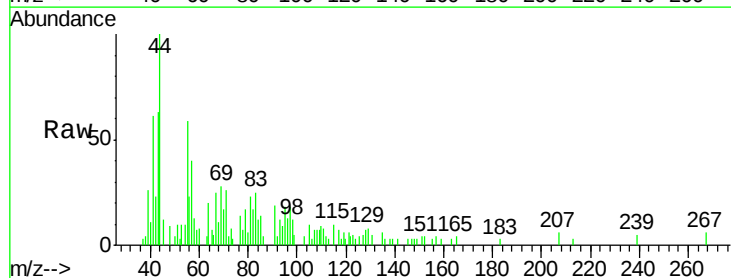
Acq: 13 Jun 2018 17:22

Tgt Ion: 64 Resp: 329

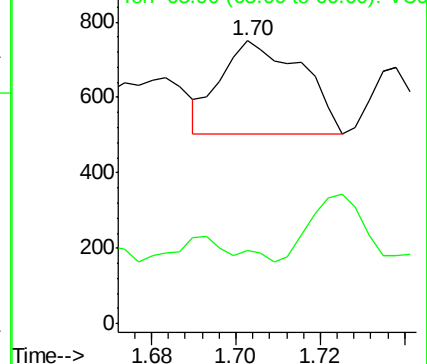
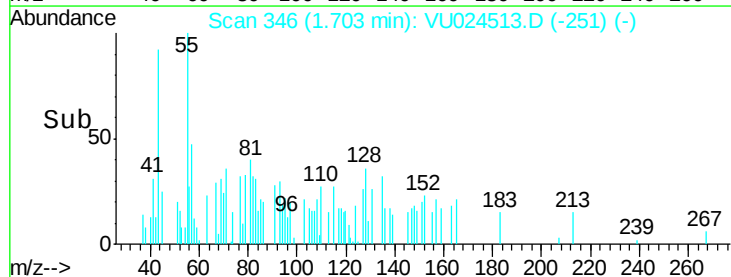
Ion Ratio Lower Upper

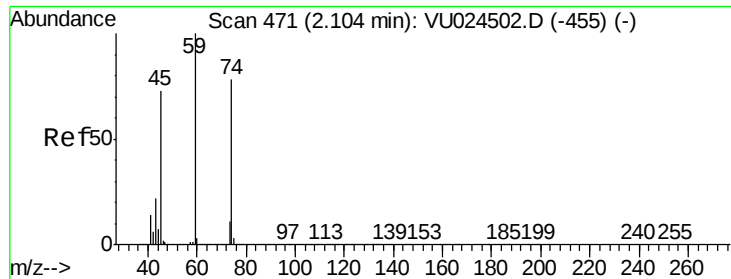
64 100

66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VU024513.D (-251) (-)





#8

Diethyl Ether

Concen: Below Cal

RT: 2.19 min Scan# 499

Delta R.T. 0.09 min

Lab File: VU024513.D

Acq: 13 Jun 2018 17:22

Instrument :

MSVOA_U

ClientSampleId :

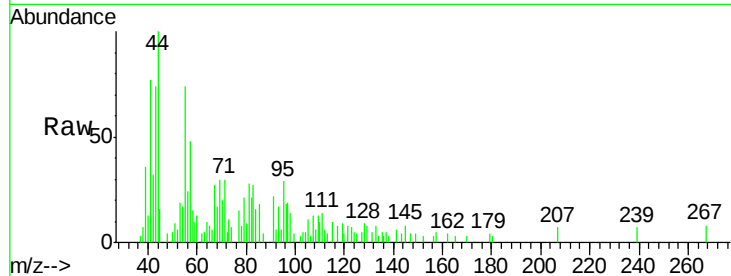
PB110190ZHE#12

Tgt Ion: 74 Resp: 268

Ion Ratio Lower Upper

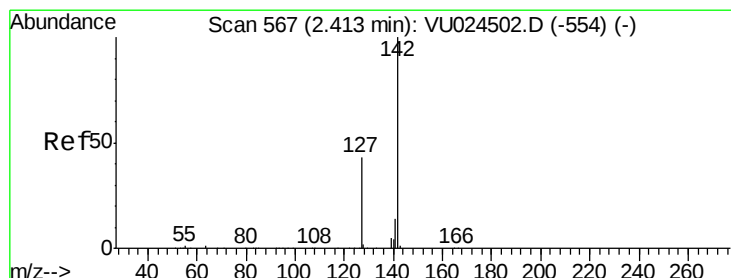
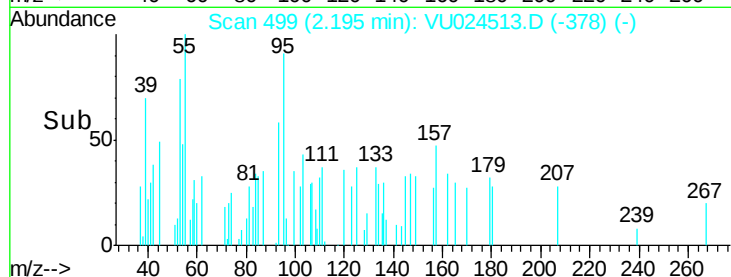
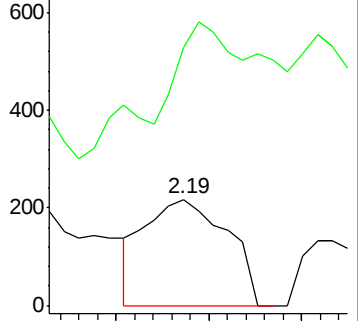
74 100

45 92.2 55.0 165.0



Abundance Ion 74.00 (73.70 to 74.70): VU0

Ion 45.00 (44.70 to 45.70): VU0



#10

Methyl Iodide

Concen: 5.30 ug/l

RT: 2.26 min Scan# 520

Delta R.T. -0.15 min

Lab File: VU024513.D

Acq: 13 Jun 2018 17:22

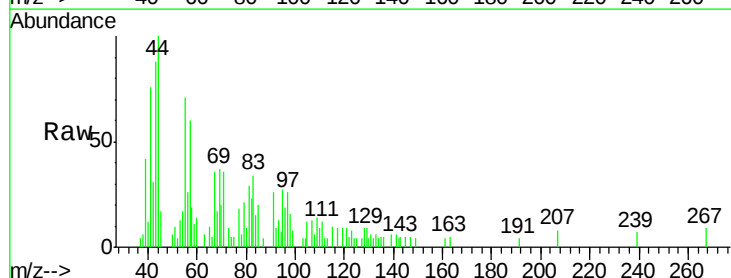
Tgt Ion: 142 Resp: 19

Ion Ratio Lower Upper

142 100

127 331.6 35.6 53.4#

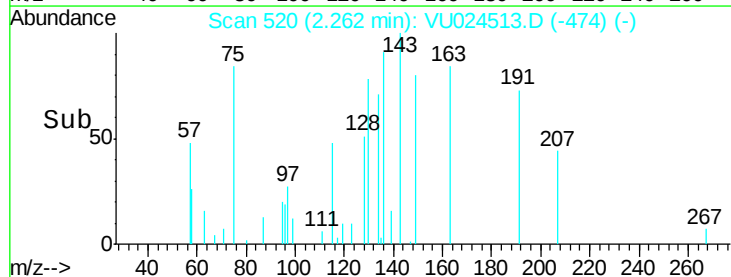
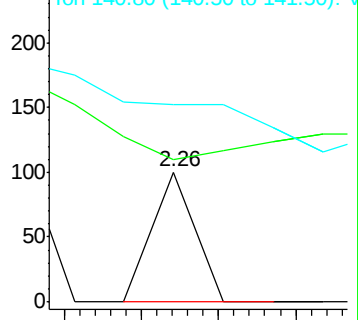
141 0.0 11.7 17.5#

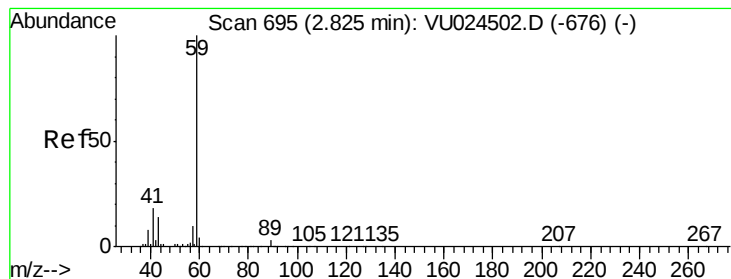


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



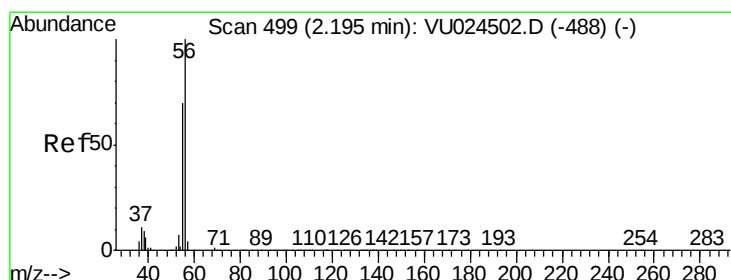
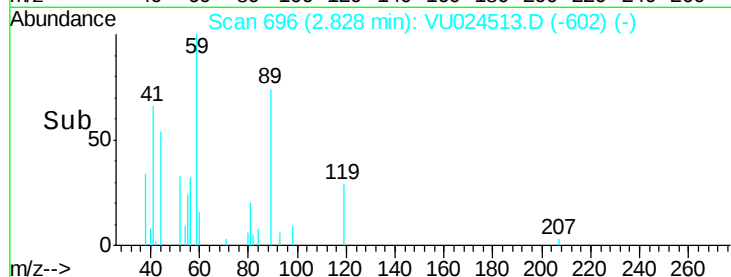
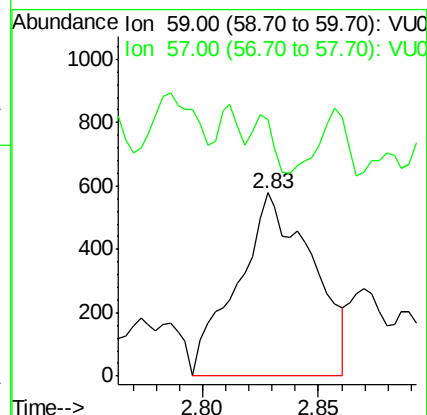
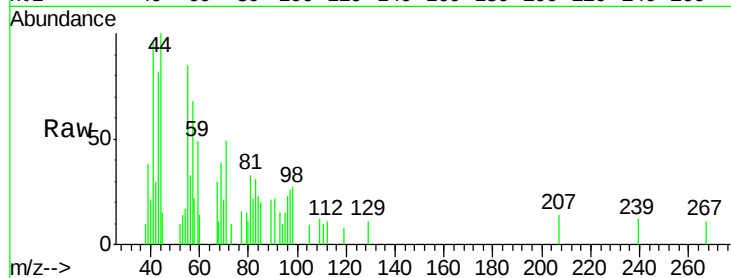


#11

Tert butyl alcohol
Concen: 1.77 ug/l
RT: 2.83 min Scan# 696
Delta R.T. 0.00 min
Lab File: VU024513.D
Acq: 13 Jun 2018 17:22

Instrument :
MSVOA_U
ClientSampleId :
PB110190ZHE#12

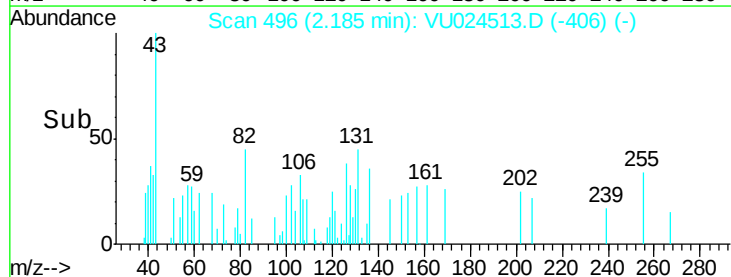
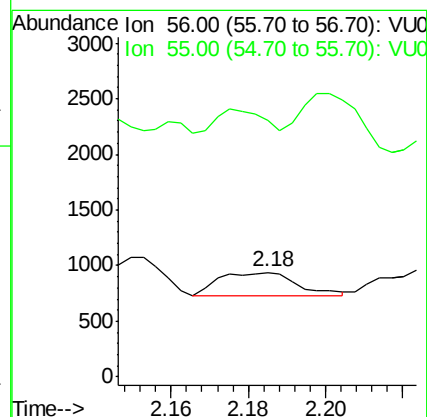
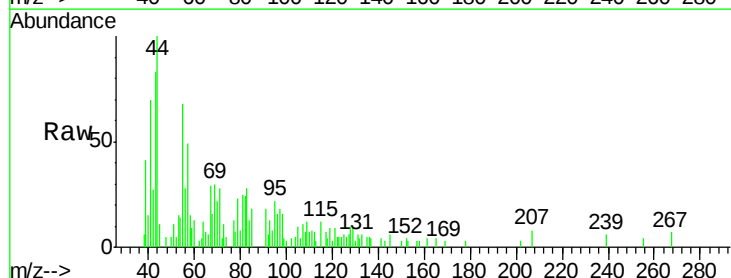
Tgt Ion: 59 Resp: 1295
Ion Ratio Lower Upper
59 100
57 8.6 8.5 12.7

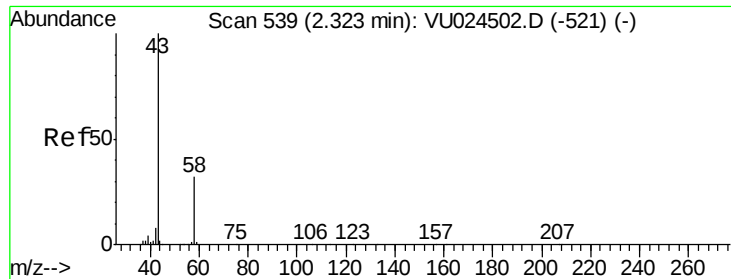


#13

Acrolein
Concen: 0.77 ug/l
RT: 2.18 min Scan# 496
Delta R.T. -0.01 min
Lab File: VU024513.D
Acq: 13 Jun 2018 17:22

Tgt Ion: 56 Resp: 298
Ion Ratio Lower Upper
56 100
55 169.8 58.4 87.6#





#16

Acetone

Concen: 10.66 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU024513.D

Acq: 13 Jun 2018 17:22

Instrument :

MSVOA_U

ClientSampleId :

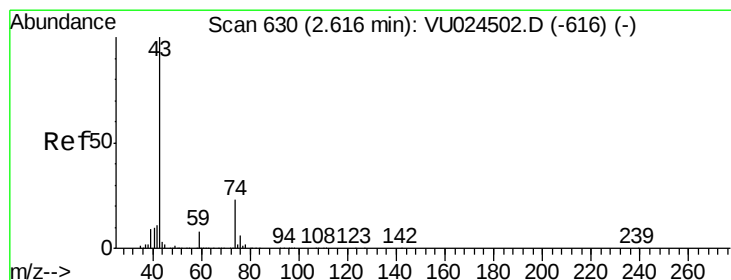
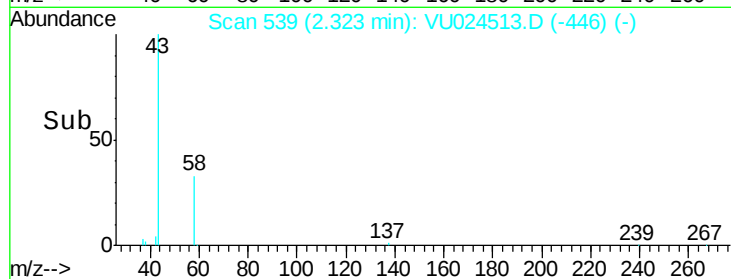
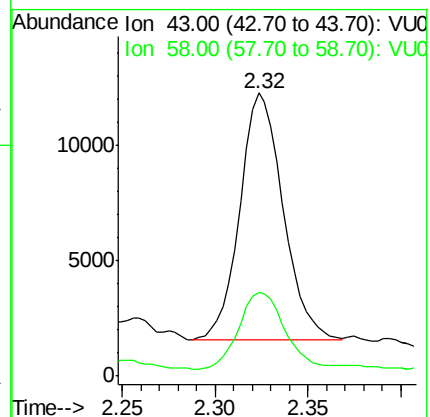
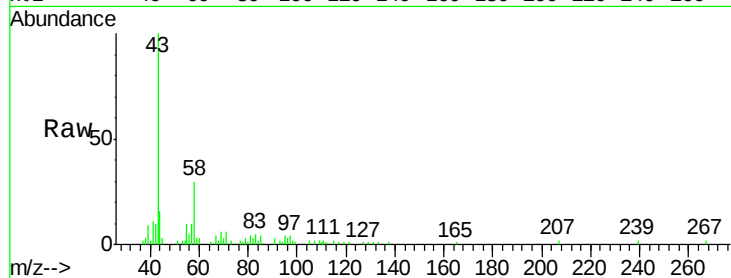
PB110190ZHE#12

Tgt Ion: 43 Resp: 17253

Ion Ratio Lower Upper

43 100

58 31.0 24.4 36.6



#18

Methyl Acetate

Concen: 4.80 ug/l

RT: 2.62 min Scan# 632

Delta R.T. 0.01 min

Lab File: VU024513.D

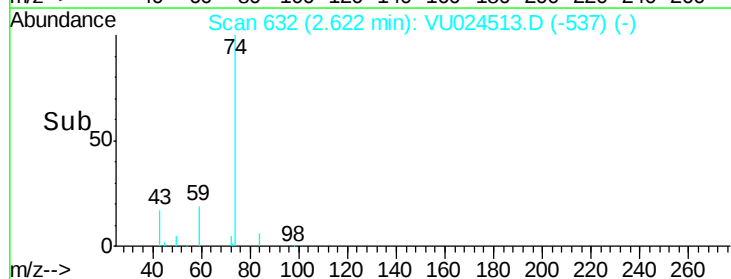
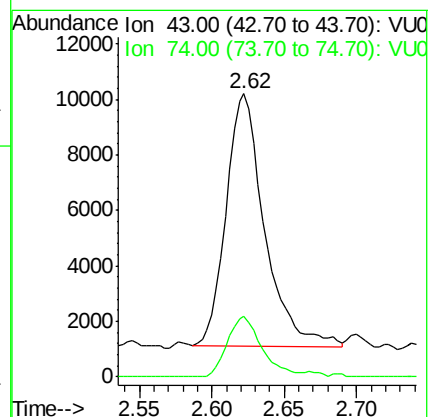
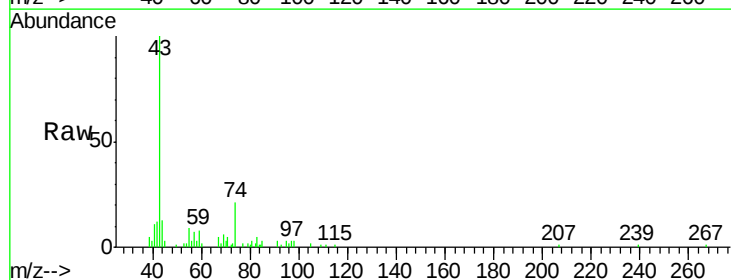
Acq: 13 Jun 2018 17:22

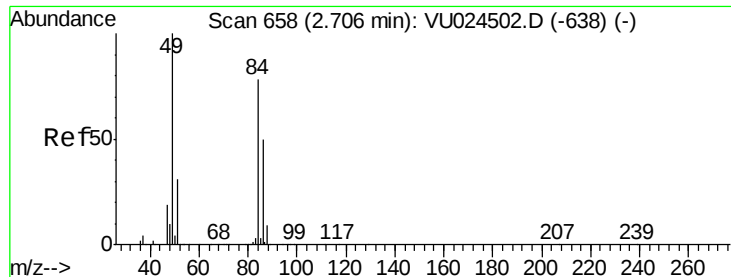
Tgt Ion: 43 Resp: 16663

Ion Ratio Lower Upper

43 100

74 21.5 18.0 27.0

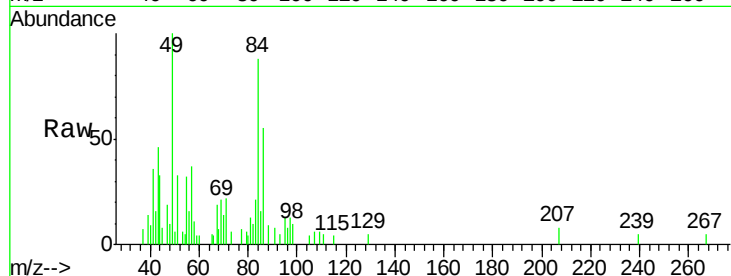




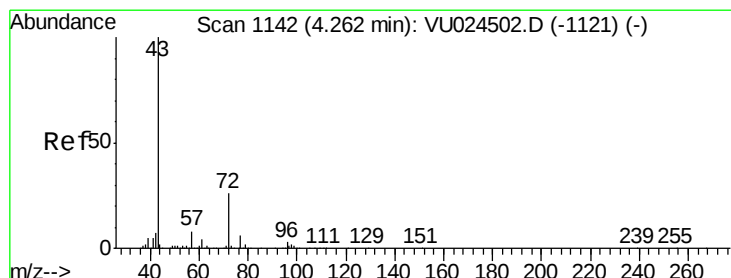
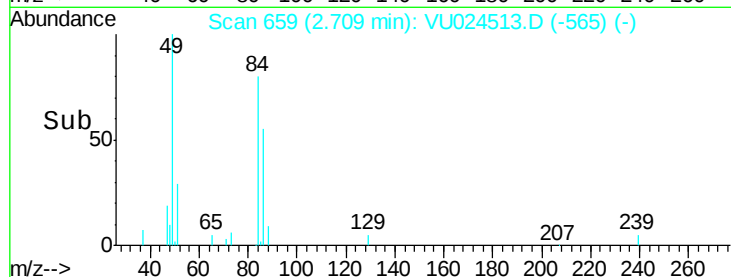
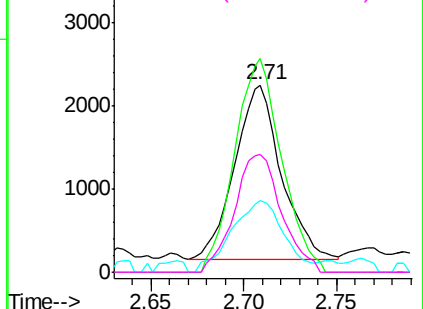
#20
Methylene Chloride
Concen: 1.44 ug/l
RT: 2.71 min Scan# 659
Delta R.T. 0.00 min
Lab File: VU024513.D
Acq: 13 Jun 2018 17:22

Instrument :
MSVOA_U
ClientSampleId :
PB110190ZHE#12

Tgt Ion:	84	Resp:	3663
Ion	Ratio	Lower	Upper
84	100		
49	122.4	103.8	155.8
51	40.9	32.0	48.0
86	67.7	51.6	77.4

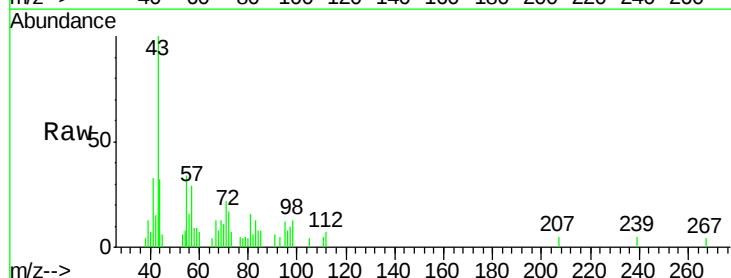


Abundance Ion 83.90 (83.60 to 84.60): VU0
Ion 48.90 (48.60 to 49.60): VU0
Ion 50.90 (50.60 to 51.60): VU0
Ion 85.90 (85.60 to 86.60): VU0

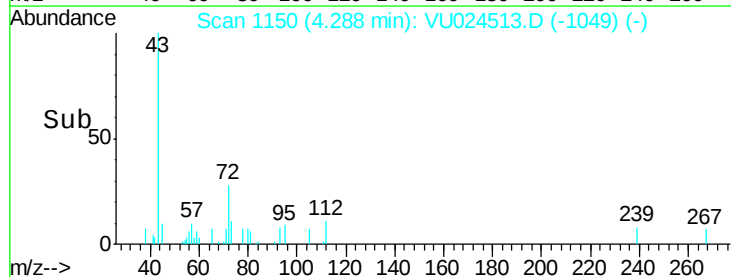
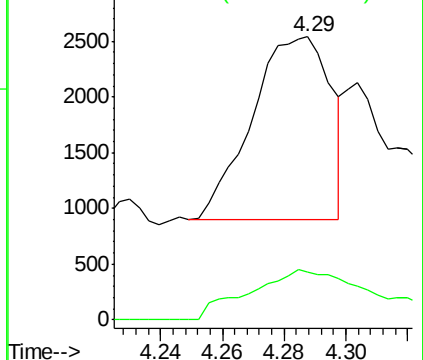


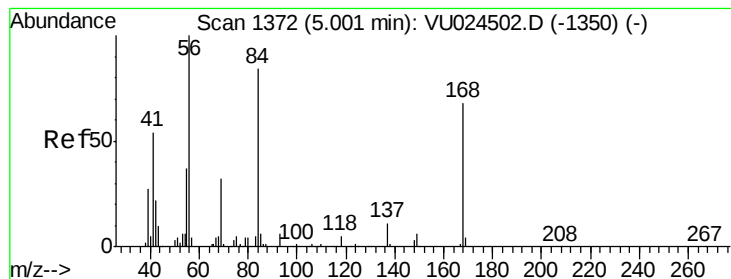
#25
2-Butanone
Concen: 1.33 ug/l
RT: 4.29 min Scan# 1150
Delta R.T. 0.03 min
Lab File: VU024513.D
Acq: 13 Jun 2018 17:22

Tgt Ion:	43	Resp:	2901
Ion	Ratio	Lower	Upper
43	100		
72	26.4	19.6	29.4



Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 72.00 (71.70 to 72.70): VU0





#31

Cyclohexane

Concen: Below Cal

RT: 4.99 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VU024513.D

Acq: 13 Jun 2018 17:22

Instrument :

MSVOA_U

ClientSampleId :

PB110190ZHE#12

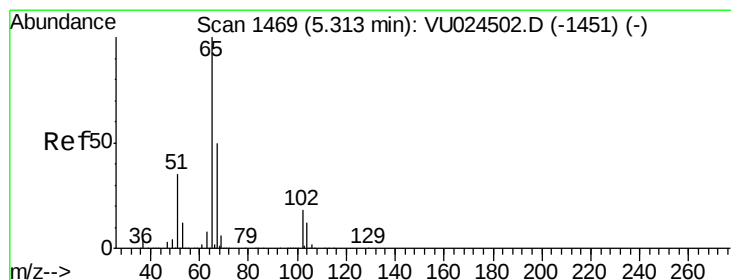
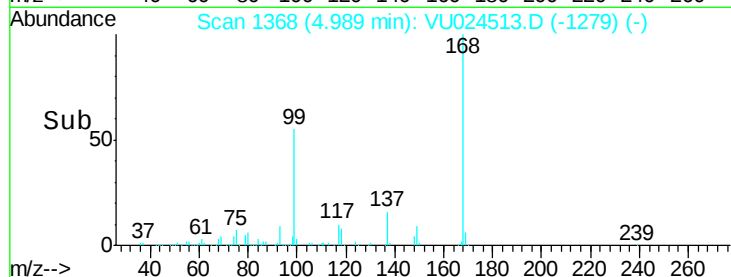
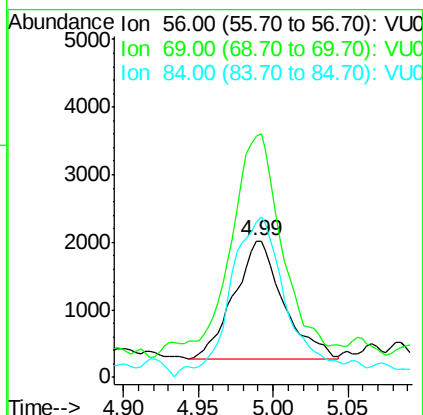
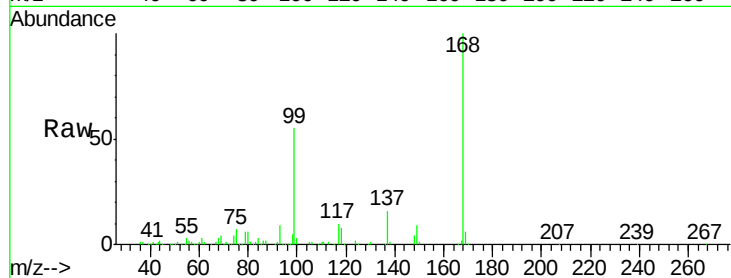
Tgt Ion: 56 Resp: 4004

Ion Ratio Lower Upper

56 100

69 176.7 24.8 37.2#

84 122.7 65.2 97.8#



#33

1,2-Dichloroethane-d4

Concen: 48.74 ug/l

RT: 5.32 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VU024513.D

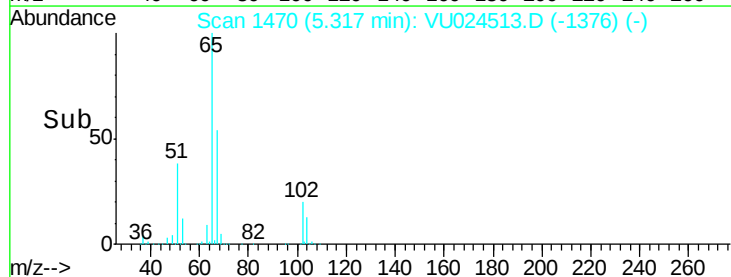
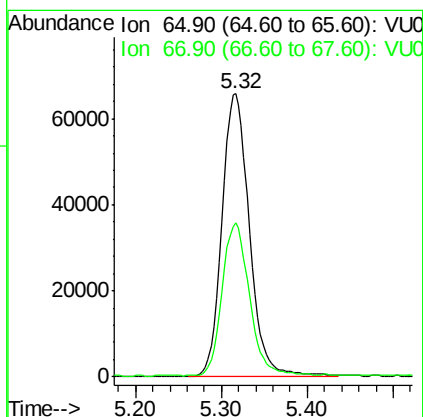
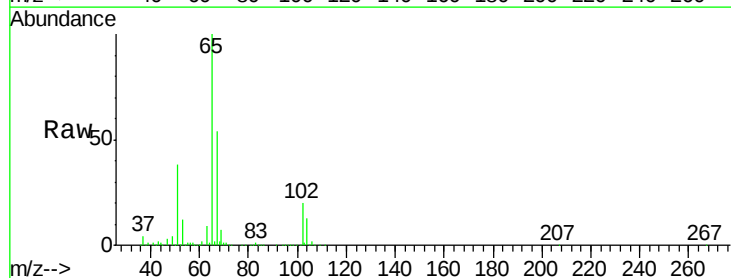
Acq: 13 Jun 2018 17:22

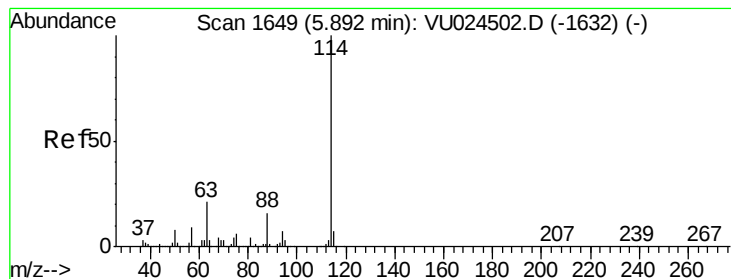
Tgt Ion: 65 Resp: 146780

Ion Ratio Lower Upper

65 100

67 53.6 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.89 min Scan# 1649

Delta R.T. 0.00 min

Lab File: VU024513.D

Acq: 13 Jun 2018 17:22

Instrument :

MSVOA_U

ClientSampleId :

PB110190ZHE#12

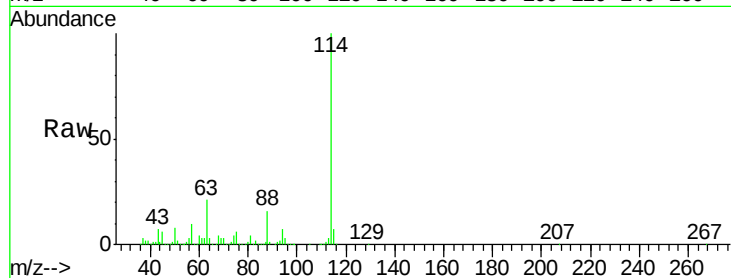
Tgt Ion:114 Resp: 313564

Ion Ratio Lower Upper

114 100

63 20.9 0.0 45.4

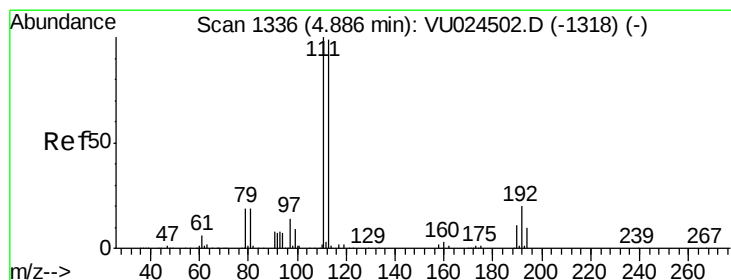
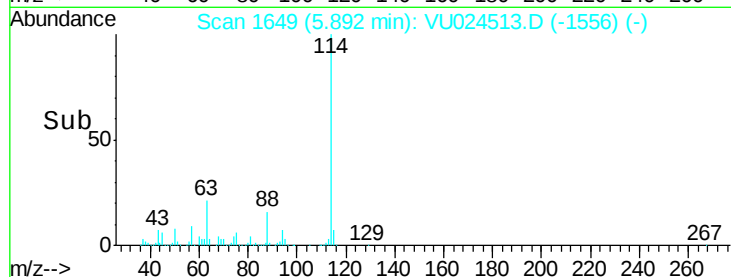
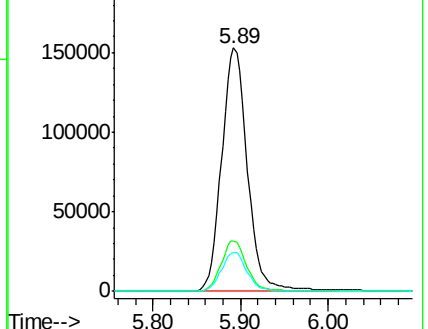
88 16.2 0.0 31.0



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: 48.82 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU024513.D

Acq: 13 Jun 2018 17:22

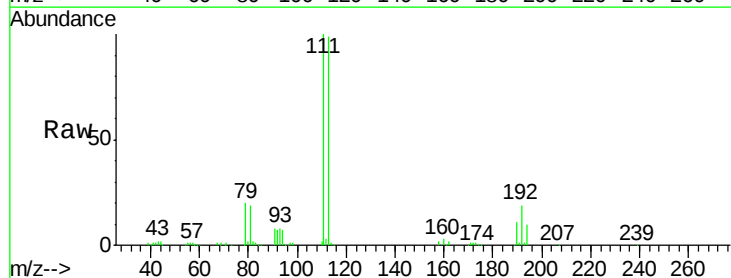
Tgt Ion:113 Resp: 127038

Ion Ratio Lower Upper

113 100

111 103.2 82.2 123.4

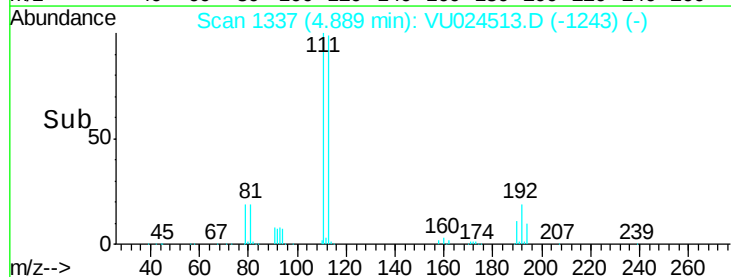
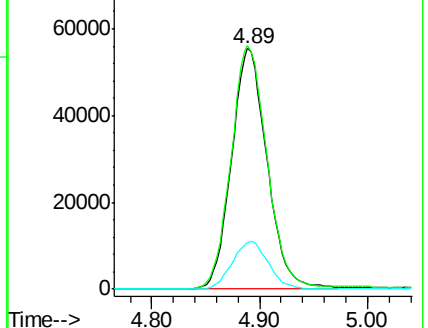
192 20.1 16.2 24.4

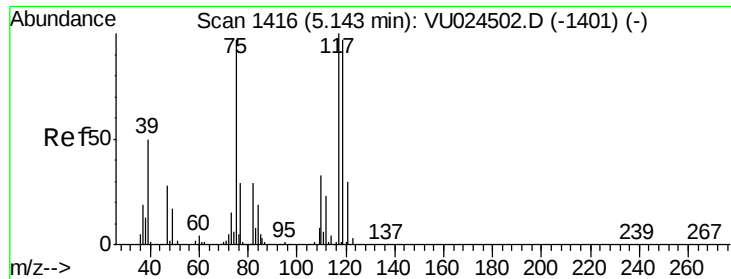


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.66 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU024513.D

Acq: 13 Jun 2018 17:22

Instrument :

MSVOA_U

ClientSampleId :

PB110190ZHE#12

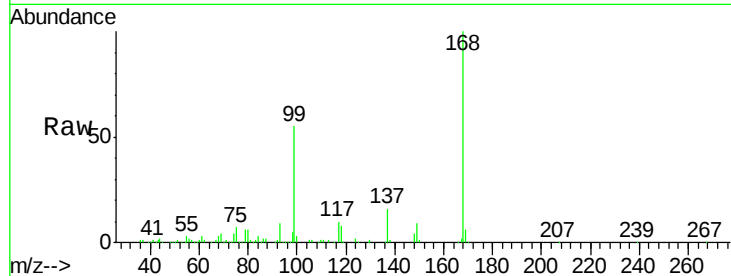
Tgt Ion: 75 Resp: 13485

Ion Ratio Lower Upper

75 100

110 10.1 17.0 50.9#

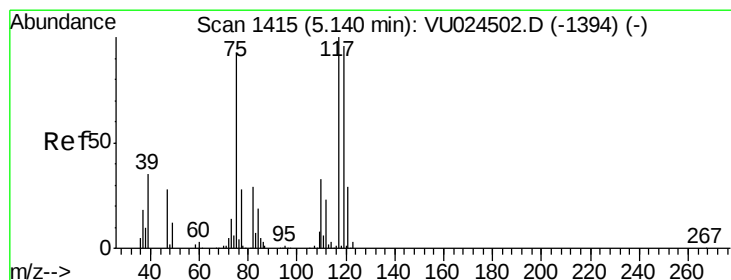
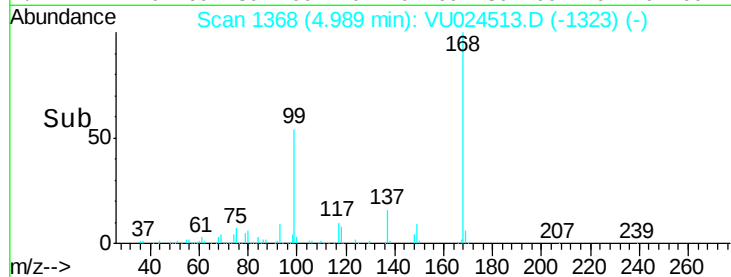
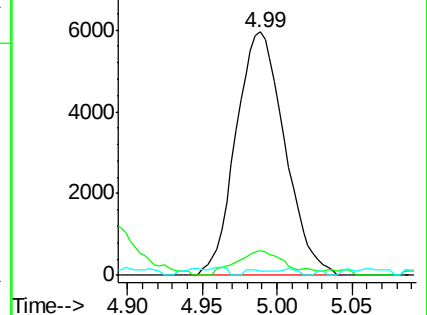
77 0.9 24.2 36.4#



Abundance Ion 74.90 (74.60 to 75.60): VU024513.D (-1323) (-)

Ion 109.90 (109.60 to 110.60): VU024513.D (-1323) (-)

Ion 76.90 (76.60 to 77.60): VU024513.D (-1323) (-)



#38

Carbon Tetrachloride

Concen: 4.30 ug/l

RT: 4.99 min Scan# 1369

Delta R.T. -0.15 min

Lab File: VU024513.D

Acq: 13 Jun 2018 17:22

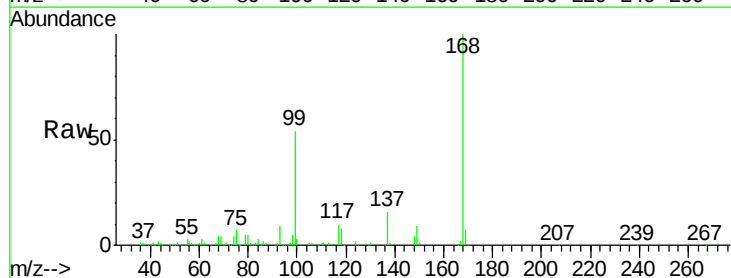
Tgt Ion: 117 Resp: 17440

Ion Ratio Lower Upper

117 100

119 4.7 76.1 114.1#

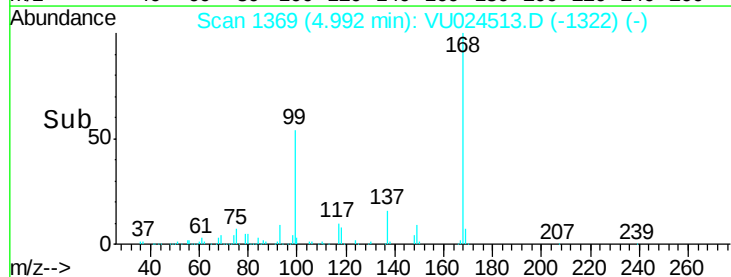
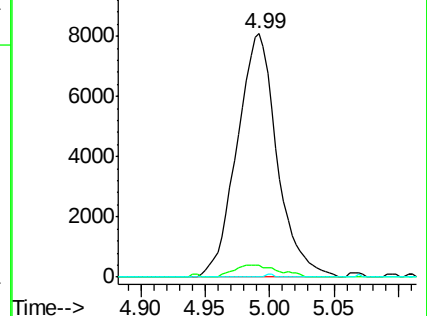
121 0.0 23.7 35.5#

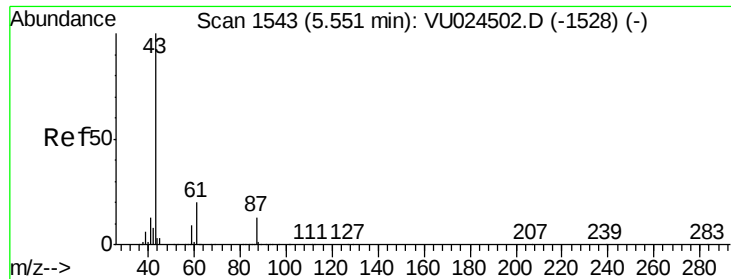


Abundance Ion 116.80 (116.50 to 117.50): VU024513.D (-1322) (-)

Ion 118.80 (118.50 to 119.50): VU024513.D (-1322) (-)

Ion 120.80 (120.50 to 121.50): VU024513.D (-1322) (-)

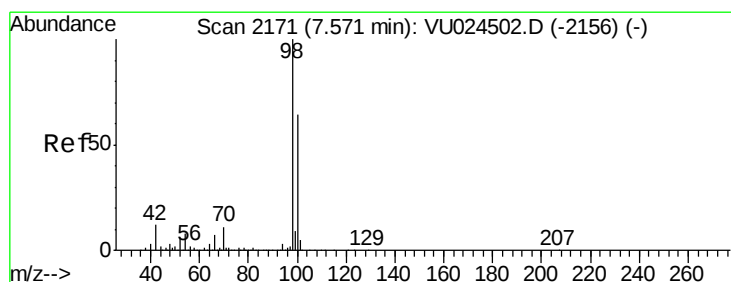
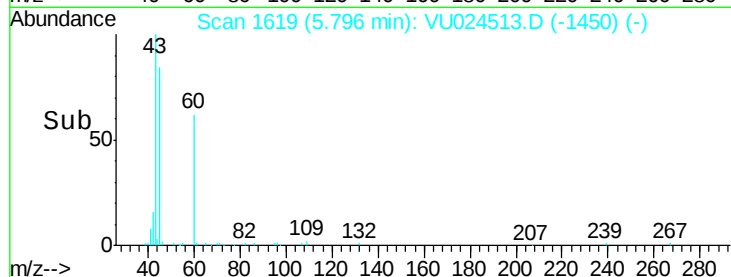
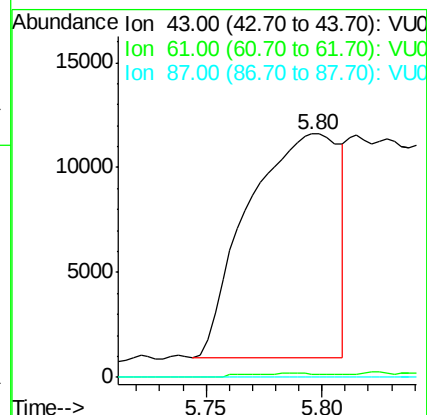
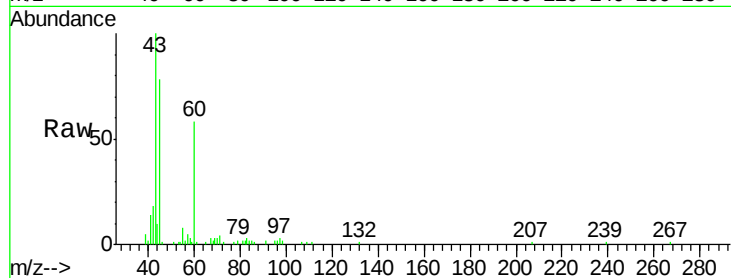




#43
Isopropyl Acetate
Concen: 4.21 ug/l
RT: 5.80 min Scan# 1619
Delta R.T. 0.24 min
Lab File: VU024513.D
Acq: 13 Jun 2018 17:22

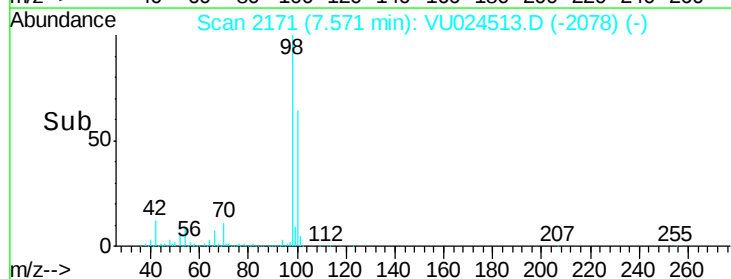
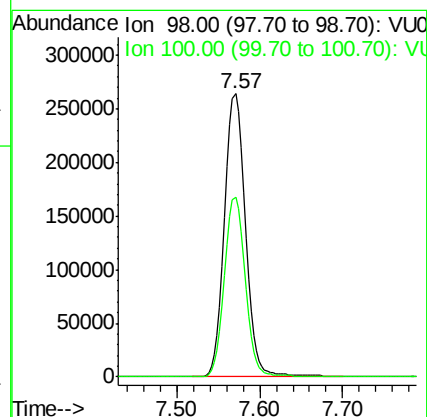
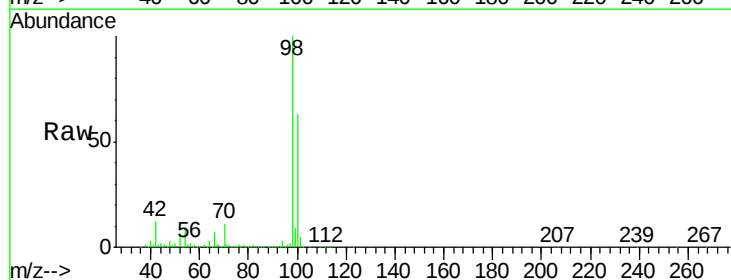
Instrument :
MSVOA_U
ClientSampleId :
PB110190ZHE#12

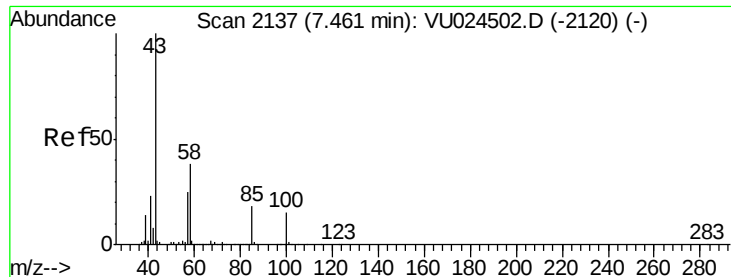
Tgt Ion: 43 Resp: 29212
Ion Ratio Lower Upper
43 100
61 1.3 15.4 23.0#
87 0.0 10.0 15.0#



#50
Toluene-d8
Concen: 48.76 ug/l
RT: 7.57 min Scan# 2171
Delta R.T. 0.00 min
Lab File: VU024513.D
Acq: 13 Jun 2018 17:22

Tgt Ion: 98 Resp: 462886
Ion Ratio Lower Upper
98 100
100 63.0 51.1 76.7





#51

4-Methyl-2-Pentanone

Concen: 0.47 ug/l

RT: 7.47 min Scan# 2140

Delta R.T. 0.01 min

Lab File: VU024513.D

Acq: 13 Jun 2018 17:22

Instrument :

MSVOA_U

ClientSampleId :

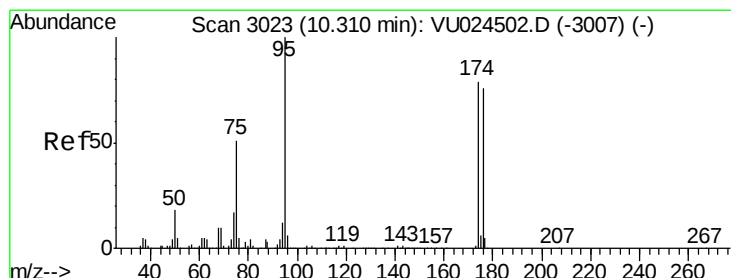
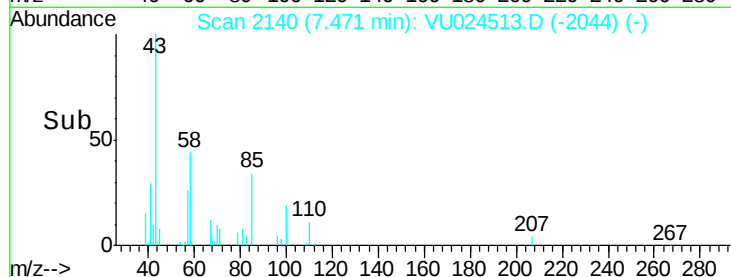
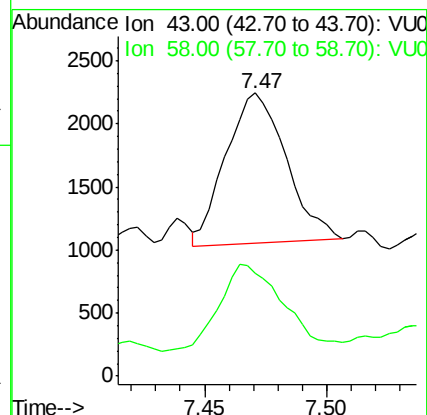
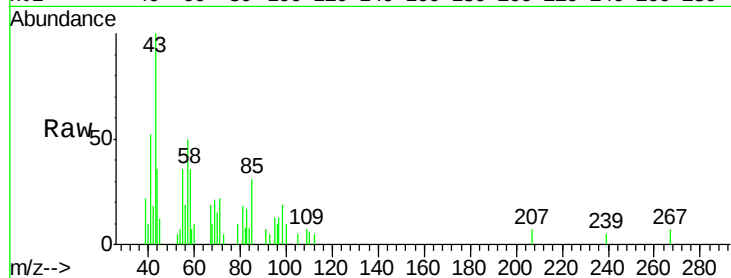
PB110190ZHE#12

Tgt Ion: 43 Resp: 2042

Ion Ratio Lower Upper

43 100

58 62.5 30.0 45.0#



#62

4-Bromofluorobenzene

Concen: 48.89 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU024513.D

Acq: 13 Jun 2018 17:22

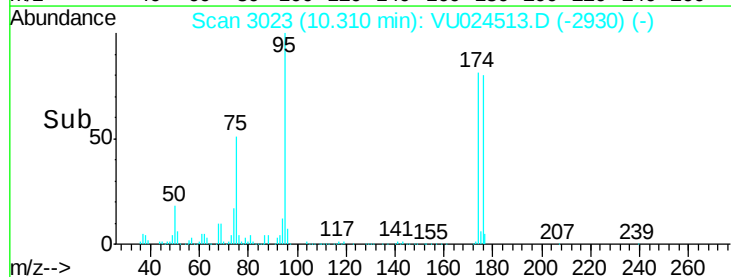
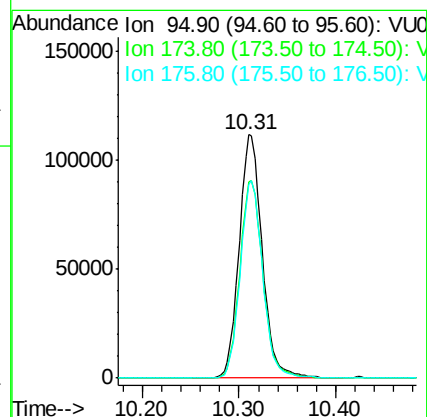
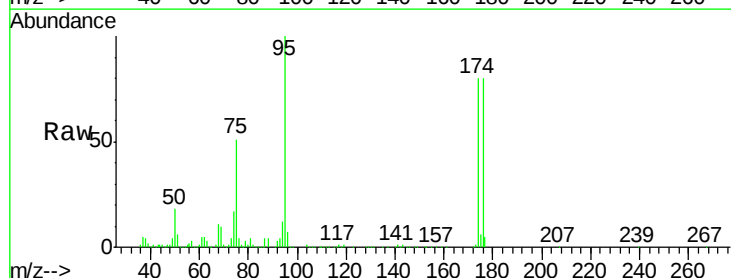
Tgt Ion: 95 Resp: 184274

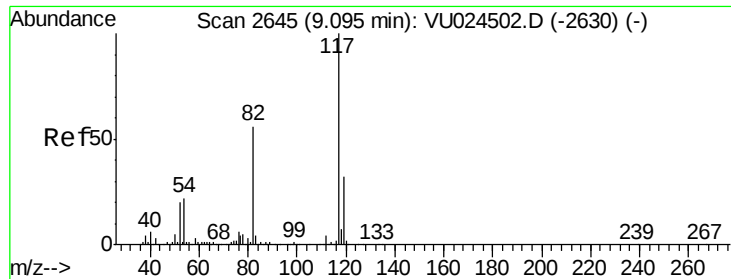
Ion Ratio Lower Upper

95 100

174 81.6 0.0 165.8

176 79.7 0.0 159.4

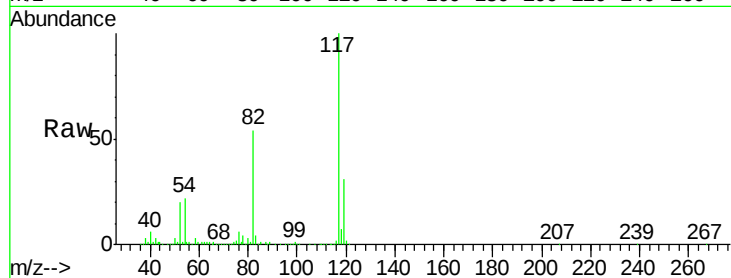




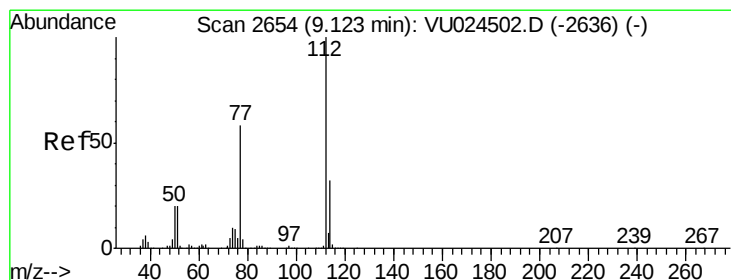
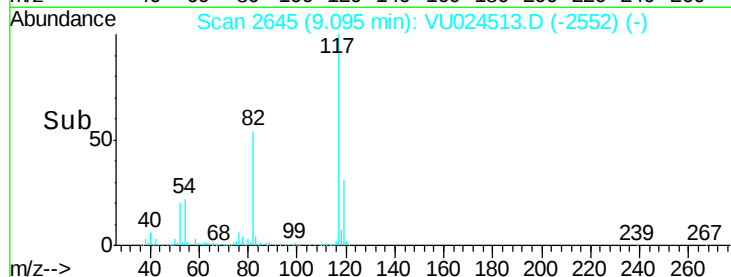
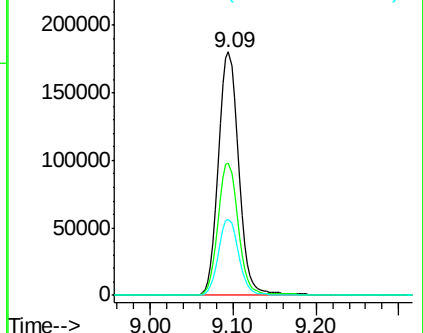
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU024513.D
Acq: 13 Jun 2018 17:22

Instrument :
MSVOA_U
ClientSampleId :
PB110190ZHE#12

Tgt Ion	Ratio	Lower	Upper
117	100		
82	54.0	44.3	66.5
119	31.4	25.4	38.2

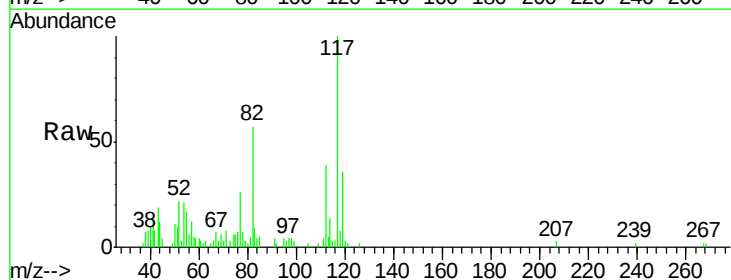


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

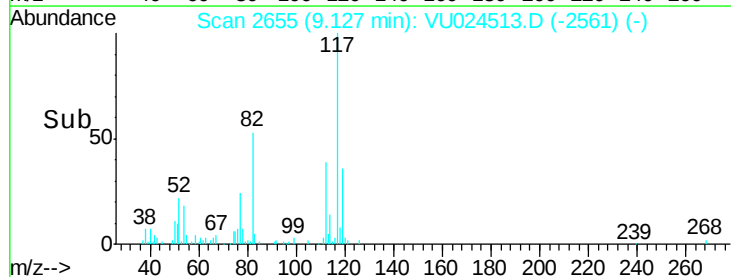
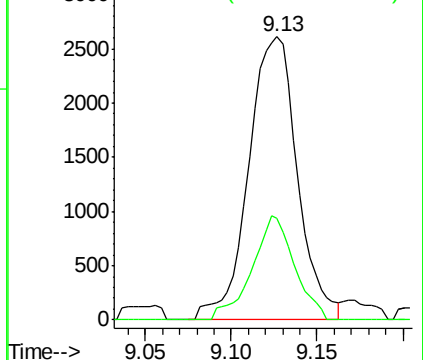


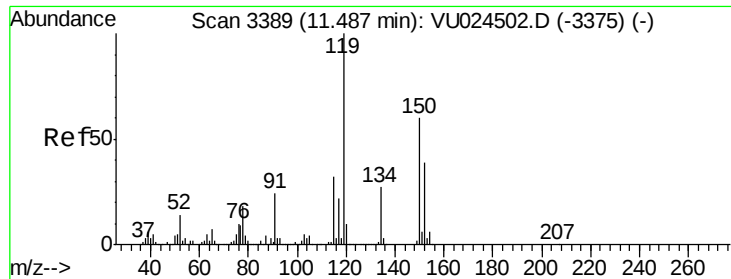
#65
Chlorobenzene
Concen: 0.66 ug/l
RT: 9.13 min Scan# 2655
Delta R.T. 0.00 min
Lab File: VU024513.D
Acq: 13 Jun 2018 17:22

Tgt Ion	Ratio	Lower	Upper
112	100		
114	35.9	25.6	38.4



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU024513.D

Acq: 13 Jun 2018 17:22

Instrument :

MSVOA_U

ClientSampleId :

PB110190ZHE#12

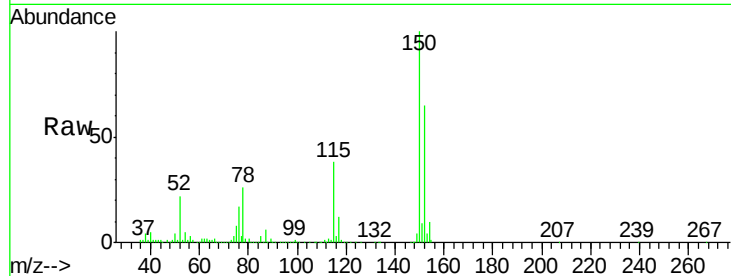
Tgt Ion:152 Resp: 175112

Ion Ratio Lower Upper

152 100

115 58.2 43.0 129.0

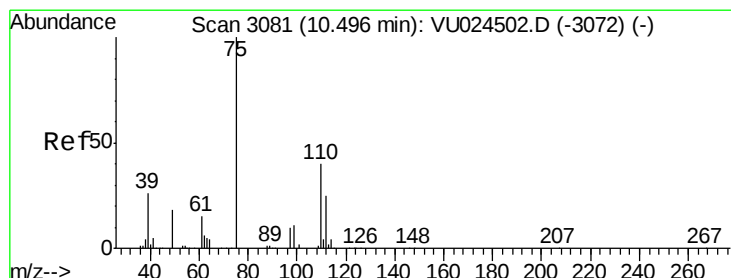
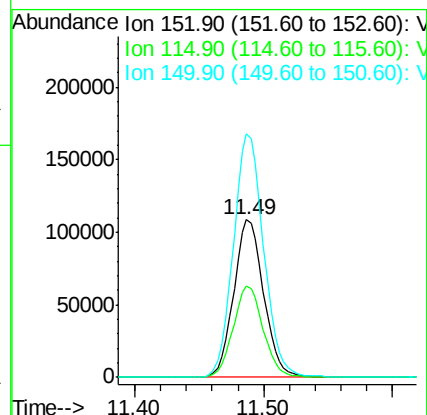
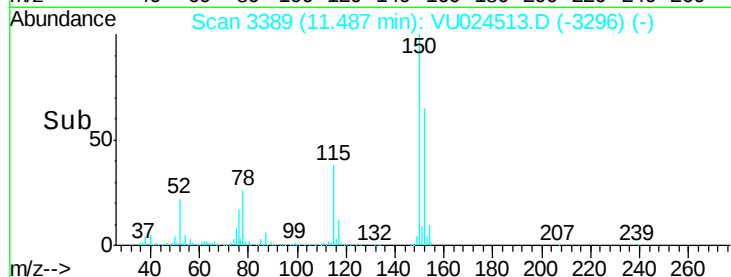
150 156.1 0.0 354.0



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: 24.07 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024513.D

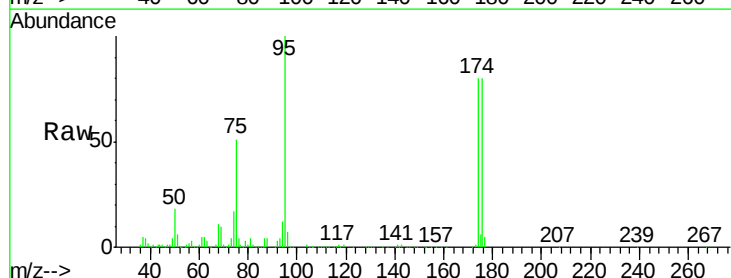
Acq: 13 Jun 2018 17:22

Tgt Ion: 75 Resp: 92784

Ion Ratio Lower Upper

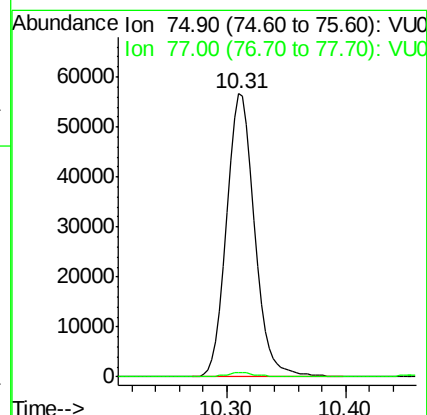
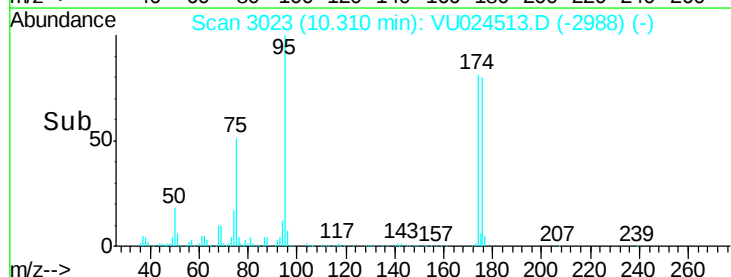
75 100

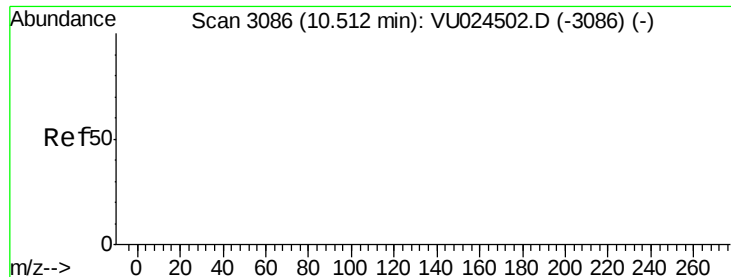
77 1.5 20.9 62.7#



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: 55.70 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU024513.D

Acq: 13 Jun 2018 17:22

Instrument :

MSVOA_U

ClientSampleId :

PB110190ZHE#12

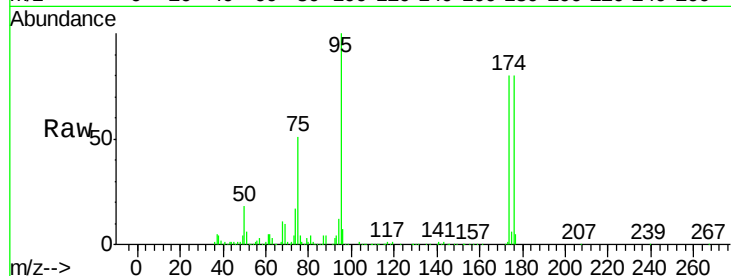
Tgt Ion: 75 Resp: 92784

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

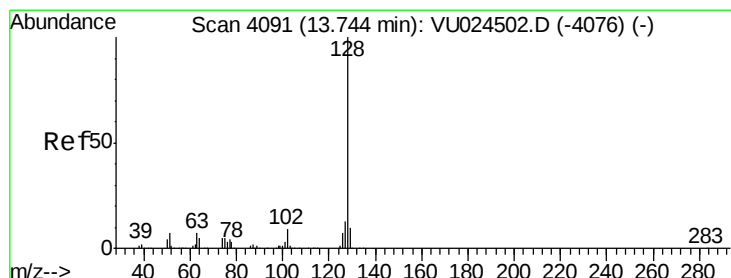
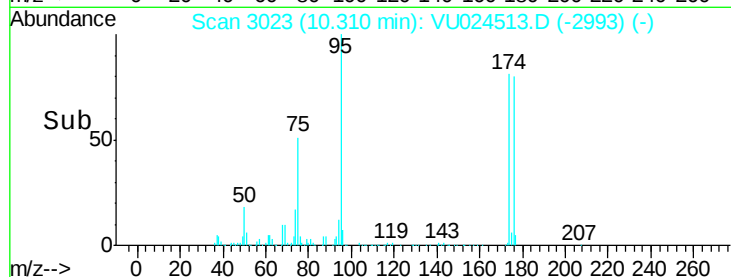
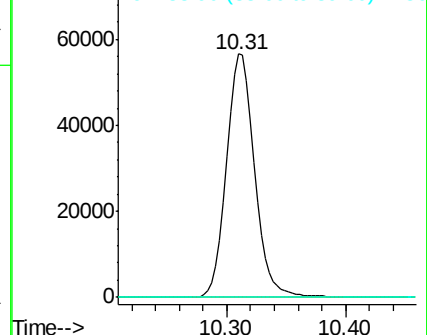
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU024502.D (-3086) (-)

Ion 53.00 (52.70 to 53.70): VU024502.D (-3086) (-)

Ion 88.90 (88.60 to 89.60): VU024502.D (-3086) (-)



#95

Naphthalene

Concen: 0.82 ug/l

RT: 13.77 min Scan# 4098

Delta R.T. 0.02 min

Lab File: VU024513.D

Acq: 13 Jun 2018 17:22

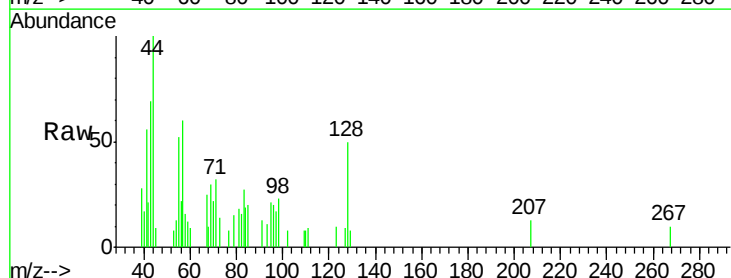
Tgt Ion: 128 Resp: 1812

Ion Ratio Lower Upper

128 100

127 6.2 10.6 16.0#

129 5.1 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): VU024502.D (-4076) (-)

Ion 127.00 (126.70 to 127.70): VU024502.D (-4076) (-)

Ion 129.00 (128.70 to 129.70): VU024502.D (-4076) (-)

