

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061418\
 Data File : VU024568.D
 Acq On : 15 Jun 2018 02:54
 Operator : MD/SY
 Sample : J3478-05
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jun 15 05:13:38 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	180076	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	293591	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	288913	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	168345	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.32	65	126957	43.19	ug/l	0.00
Spiked Amount			Recovery	=	86.38%	
35) Dibromofluoromethane	4.89	113	118152	48.49	ug/l	0.00
Spiked Amount			Recovery	=	96.98%	
50) Toluene-d8	7.57	98	438737	49.36	ug/l	0.00
Spiked Amount			Recovery	=	98.72%	
62) 4-Bromofluorobenzene	10.31	95	168100	47.64	ug/l	0.00
Spiked Amount			Recovery	=	95.28%	

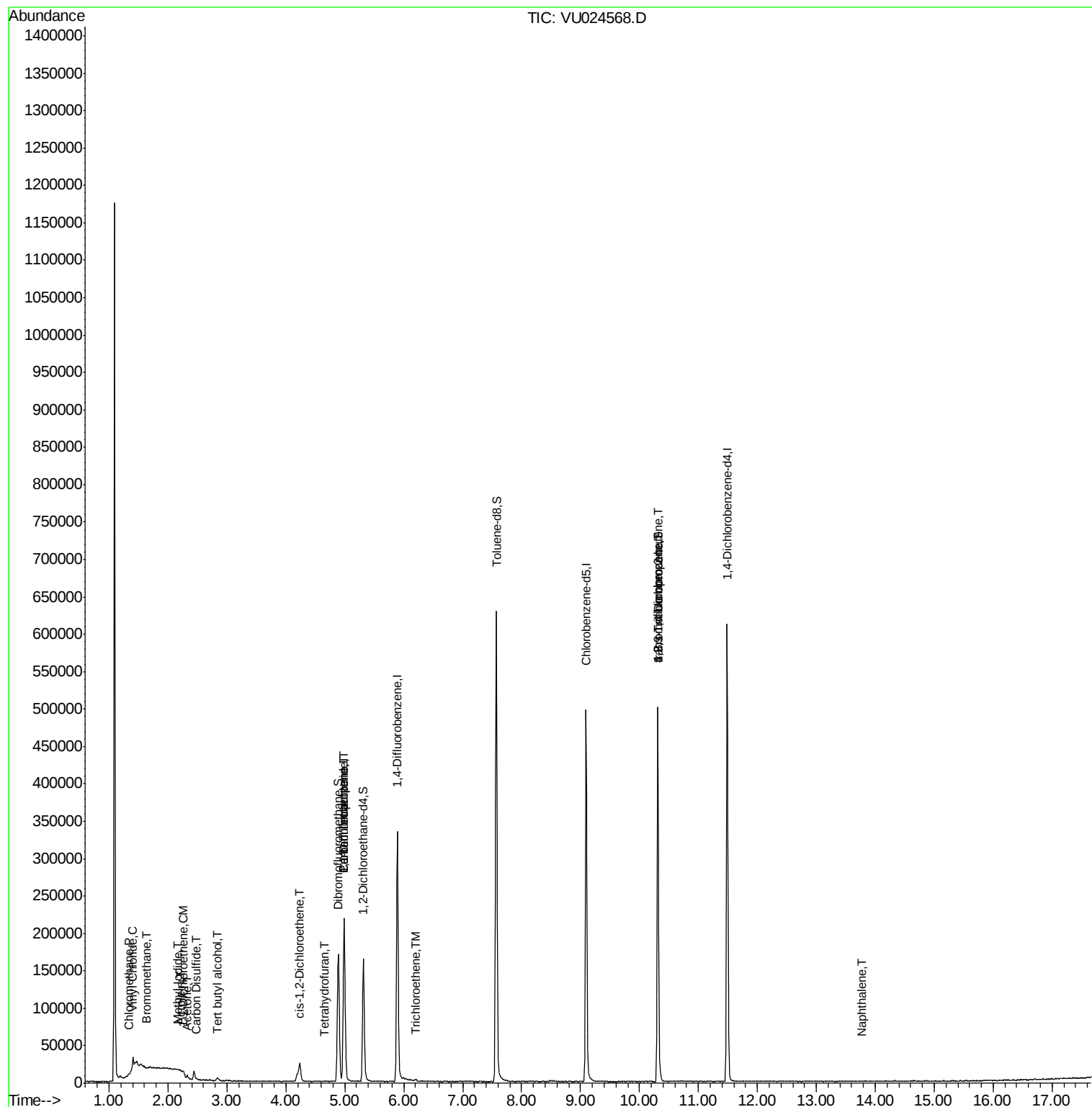
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	763	0.331	ug/l	93
4) Vinyl Chloride	1.41	62	8459	3.562	ug/l #	62
5) Bromomethane	1.64	94	327	0.285	ug/l #	9
6) Chloroethane	1.69	64	414	Below Cal	#	51
8) Diethyl Ether	2.13	74	20	Below Cal	#	10
10) Methyl Iodide	2.17	142	50	5.312	ug/l #	40
11) Tert butyl alcohol	2.83	59	2135	2.986	ug/l #	72
12) 1,1-Dichloroethene	2.27	96	480	0.234	ug/l #	1
13) Acrolein	2.20	56	184	0.490	ug/l #	80
16) Acetone	2.32	43	4251	2.691	ug/l #	76
17) Carbon Disulfide	2.49	76	1744	0.266	ug/l #	75
27) cis-1,2-Dichloroethene	4.24	96	13534	5.213	ug/l	86
29) Tetrahydrofuran	4.66	42	461	0.351	ug/l	89
31) Cyclohexane	4.99	56	3812	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	12695	3.680	ug/l #	51
38) Carbon Tetrachloride	4.99	117	16273	4.289	ug/l #	16
44) Trichloroethene	6.20	130	1002	0.358	ug/l	90
76) 1,2,3-Trichloropropane	10.31	75	81255	21.923	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	81255	50.739	ug/l #	100
95) Naphthalene	13.78	128	19	0.681	ug/l #	69

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

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QLast Update : Wed Jun 13 13:55:26 2018
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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: VU024568.D

Acq: 15 Jun 2018 02:54

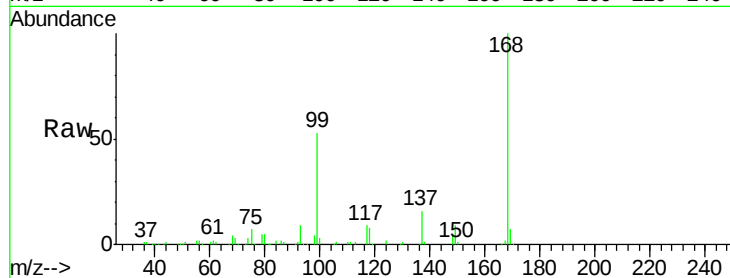
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:168 Resp: 180076

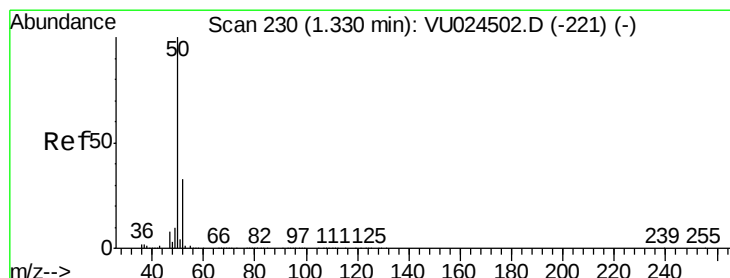
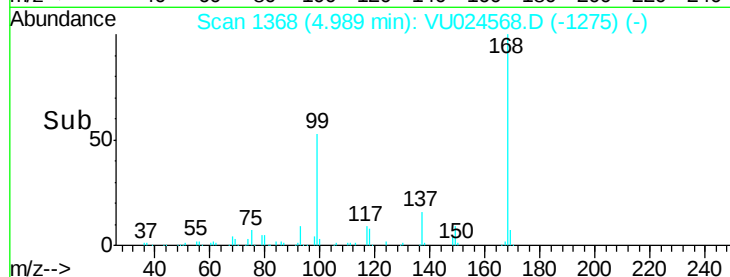
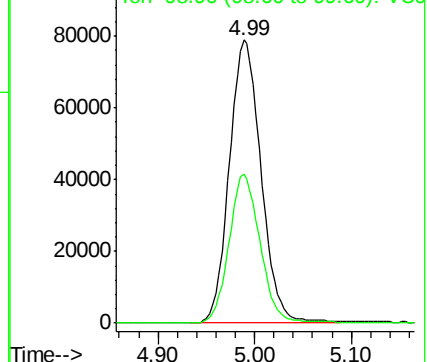
Ion Ratio Lower Upper

168 100

99 52.8 43.2 64.8



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



#3

Chloromethane

Concen: 0.331 ug/l

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU024568.D

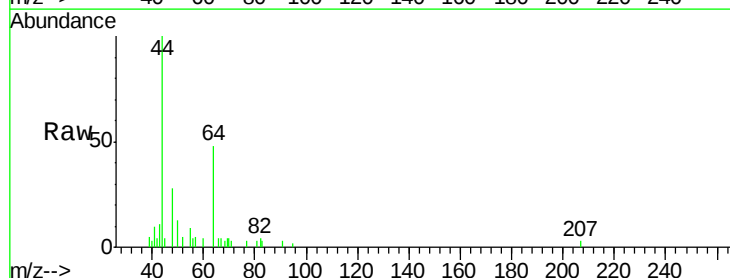
Acq: 15 Jun 2018 02:54

Tgt Ion: 50 Resp: 763

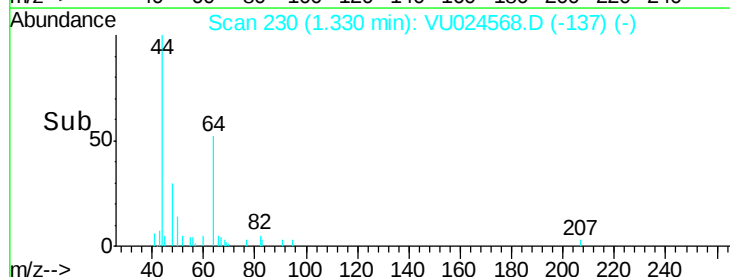
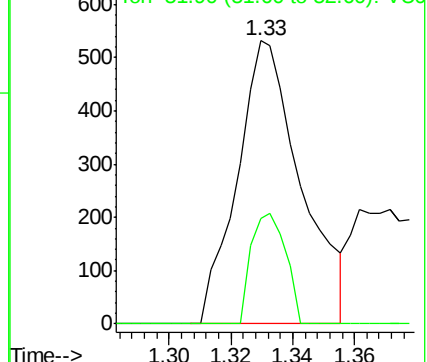
Ion Ratio Lower Upper

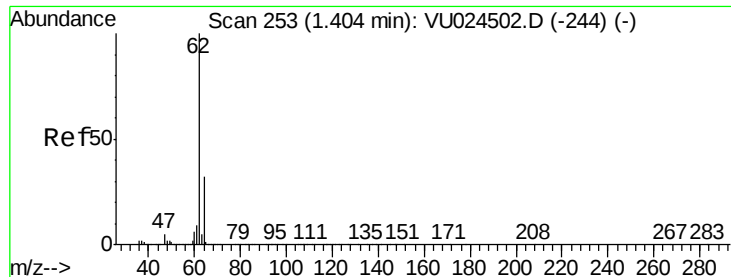
50 100

52 37.2 26.4 39.6



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





#4

Vinyl Chloride

Concen: 3.562 ug/l

RT: 1.41 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU024568.D

Acq: 15 Jun 2018 02:54

Instrument :

MSVOA_U

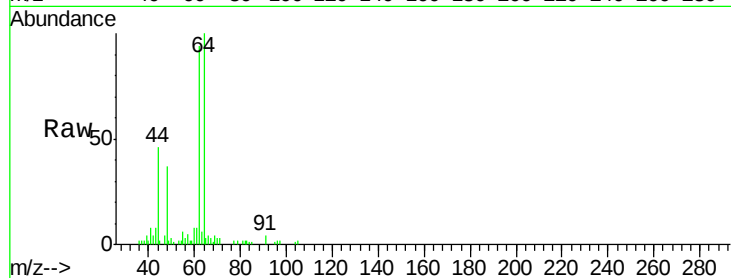
ClientSampleId :

Tot Ion: 62 Resp: 8459

Ion Ratio Lower Upper

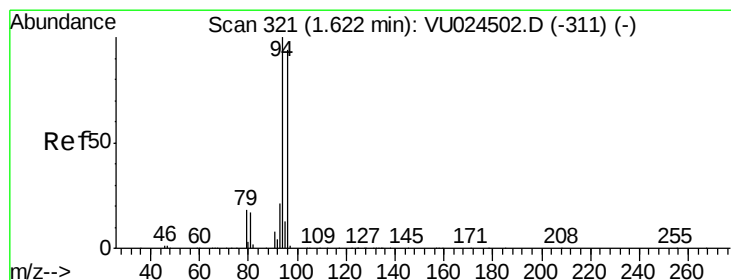
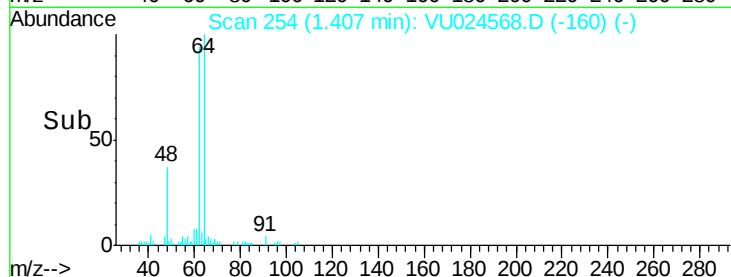
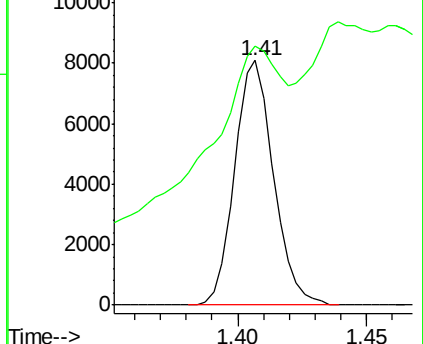
62 100

64 51.8 24.8 37.2#



Abundance Ion 61.90 (61.60 to 62.60): VU024502.D (-244) (-)

Ion 63.90 (63.60 to 64.60): VU024502.D (-244) (-)



#5

Bromomethane

Concen: 0.285 ug/l

RT: 1.64 min Scan# 326

Delta R.T. 0.02 min

Lab File: VU024568.D

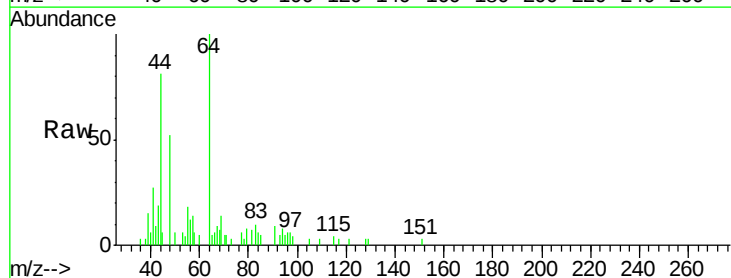
Acq: 15 Jun 2018 02:54

Tgt Ion: 94 Resp: 327

Ion Ratio Lower Upper

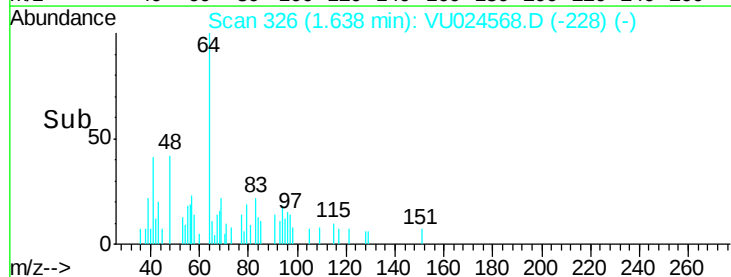
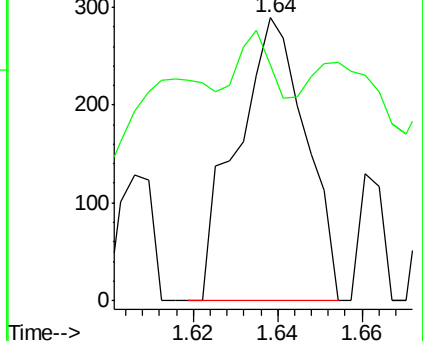
94 100

96 5.5 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VU024502.D (-311) (-)

Ion 95.90 (95.60 to 96.60): VU024502.D (-311) (-)





#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 341

Delta R.T. -0.01 min

Lab File: VU024568.D

Acq: 15 Jun 2018 02:54

Instrument :

MSVOA_U

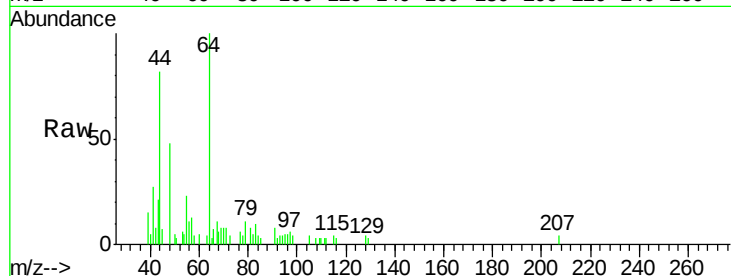
ClientSampleId :

Tot Ion: 64 Resp: 414

Ion Ratio Lower Upper

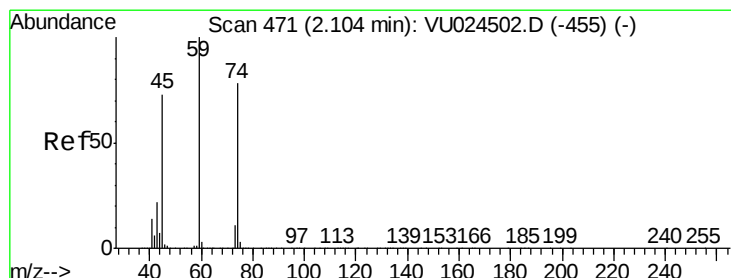
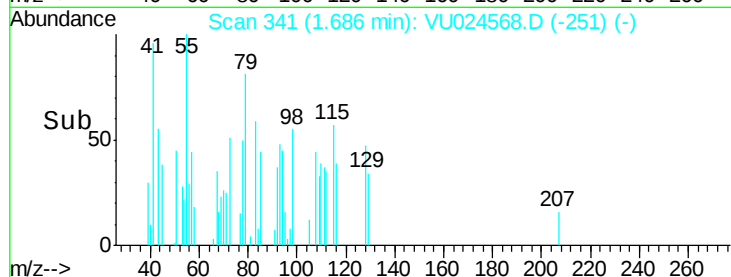
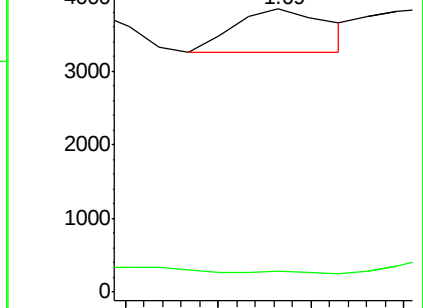
64 100

66 4.8 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0



#8

Diethyl Ether

Concen: Below Cal

RT: 2.13 min Scan# 478

Delta R.T. 0.02 min

Lab File: VU024568.D

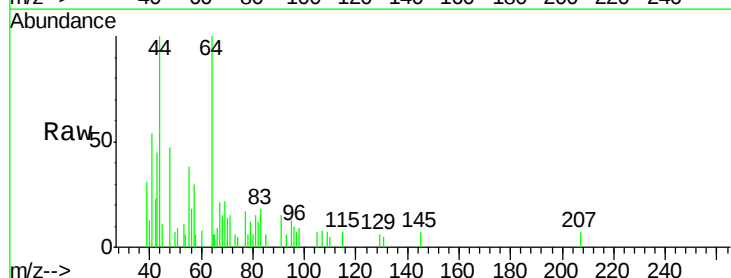
Acq: 15 Jun 2018 02:54

Tgt Ion: 74 Resp: 20

Ion Ratio Lower Upper

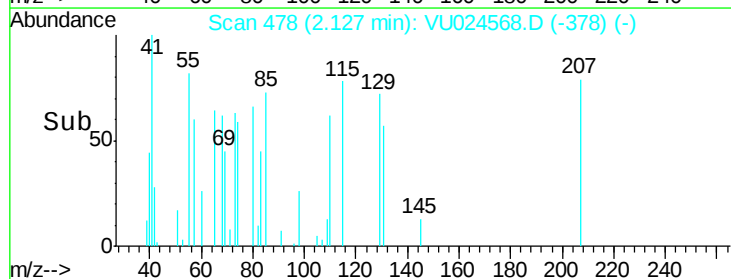
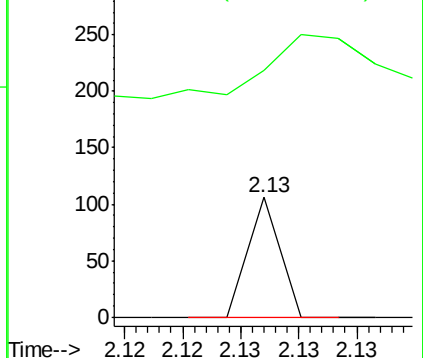
74 100

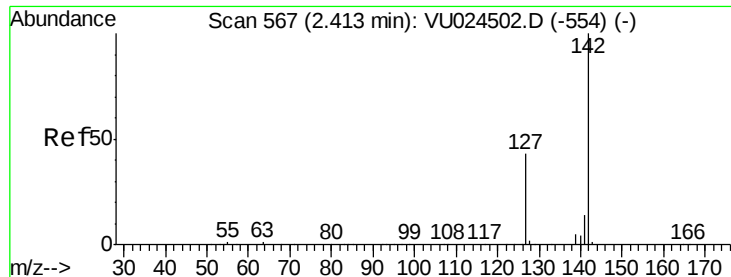
45 205.0 55.0 165.0#



Abundance Ion 74.00 (73.70 to 74.70): VU0

Ion 45.00 (44.70 to 45.70): VU0





#10

Methyl Iodide

Concen: 5.312 ug/l

RT: 2.17 min Scan# 491

Delta R.T. -0.24 min

Lab File: VU024568.D

Acq: 15 Jun 2018 02:54

Instrument :

MSVOA_U

ClientSampleId :

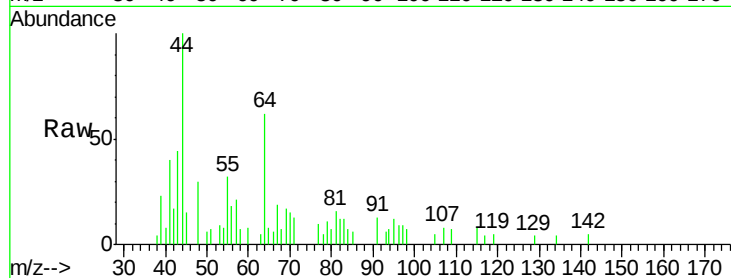
Tot Ion:142 Resp: 50

Ion Ratio Lower Upper

142 100

127 0.0 35.6 53.4#

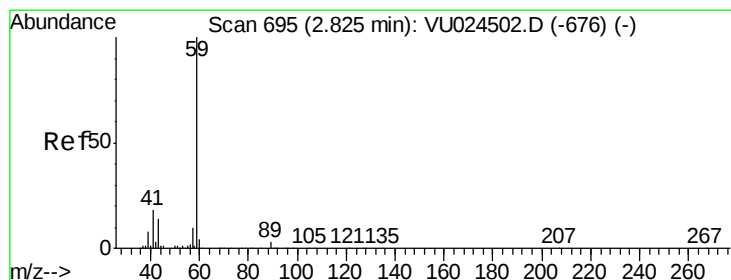
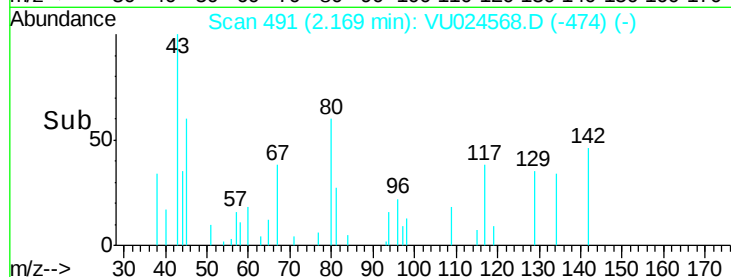
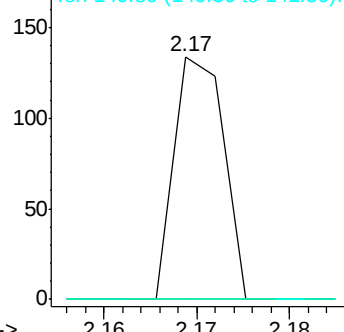
141 0.0 11.7 17.5#



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: 2.986 ug/l

RT: 2.83 min Scan# 697

Delta R.T. 0.01 min

Lab File: VU024568.D

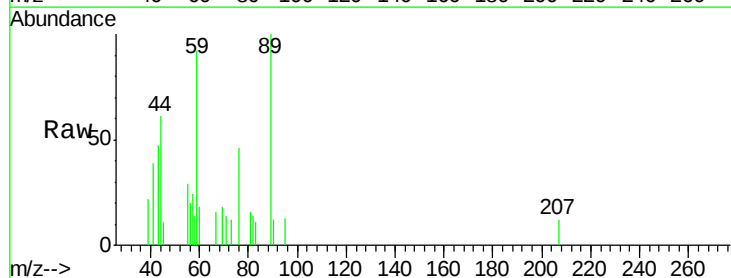
Acq: 15 Jun 2018 02:54

Tgt Ion: 59 Resp: 2135

Ion Ratio Lower Upper

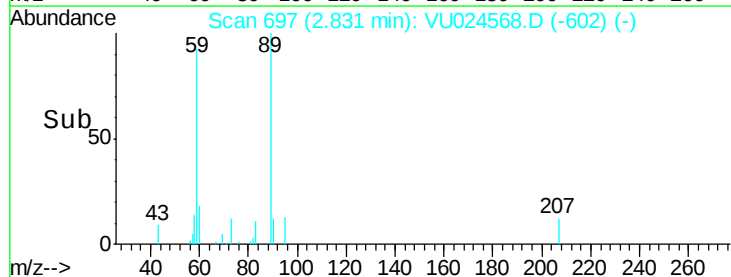
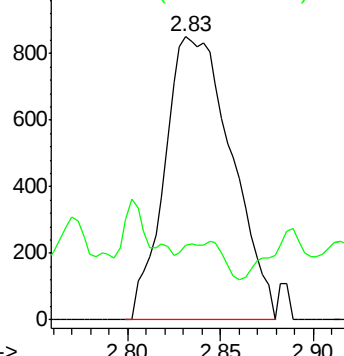
59 100

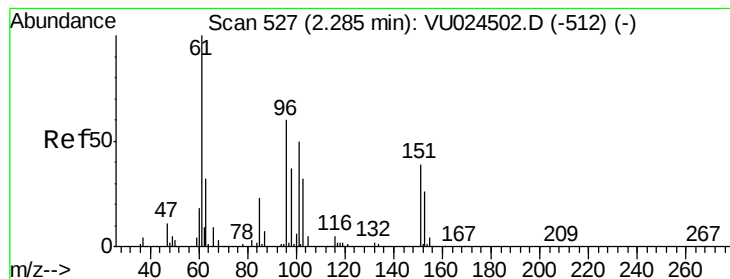
57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#12

1,1-Dichloroethene

Concen: 0.234 ug/l

RT: 2.27 min Scan# 524

Delta R.T. -0.01 min

Lab File: VU024568.D

Acq: 15 Jun 2018 02:54

Instrument :
MSVOA_U
ClientSampled :

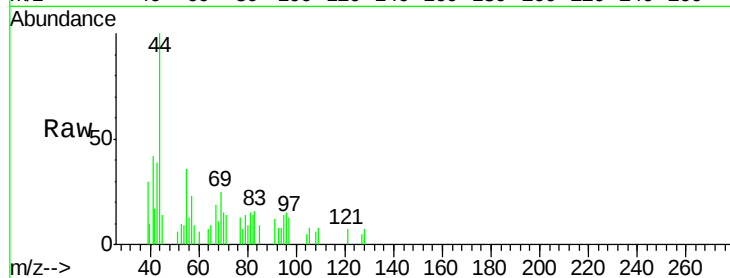
Tot Ion: 96 Resp: 480

Ion Ratio Lower Upper

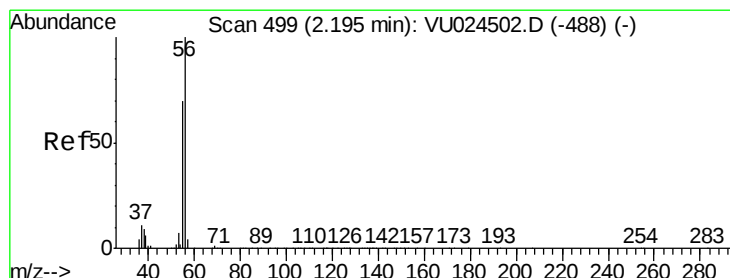
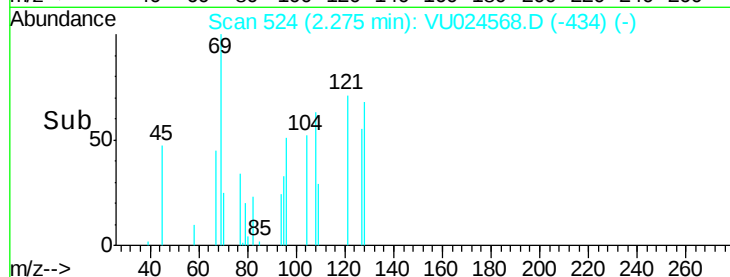
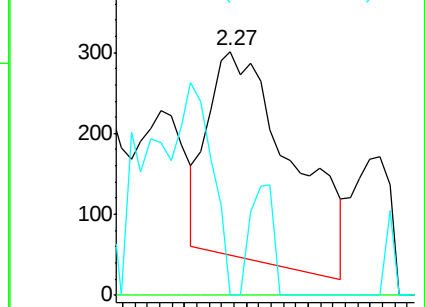
96 100

61 0.0 141.7 212.5#

98 0.0 51.6 77.4#



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



#13

Acrolein

Concen: 0.490 ug/l

RT: 2.20 min Scan# 500

Delta R.T. 0.00 min

Lab File: VU024568.D

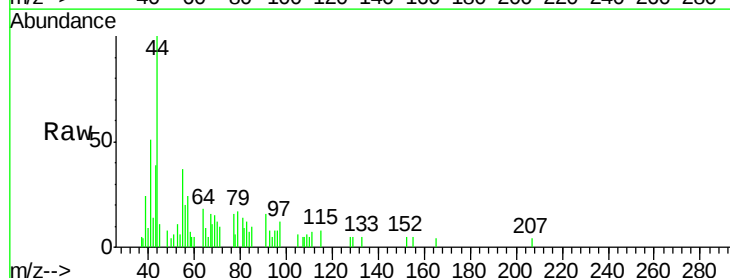
Acq: 15 Jun 2018 02:54

Tgt Ion: 56 Resp: 184

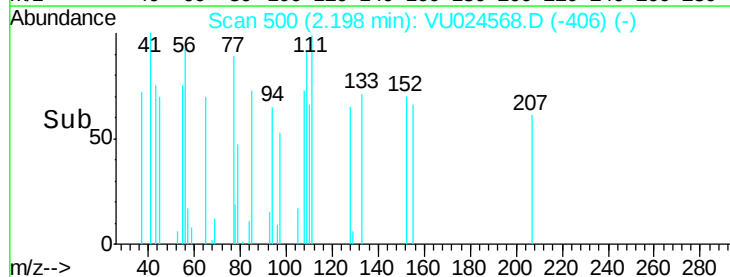
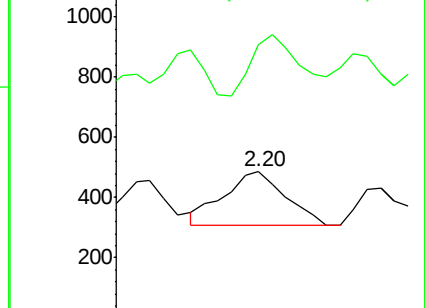
Ion Ratio Lower Upper

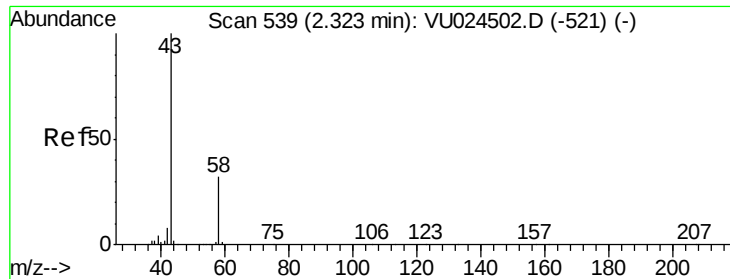
56 100

55 89.7 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: 2.691 ug/l

RT: 2.32 min Scan# 539

Delta R.T. -0.00 min

Lab File: VU024568.D

Acq: 15 Jun 2018 02:54

Instrument :

MSVOA_U

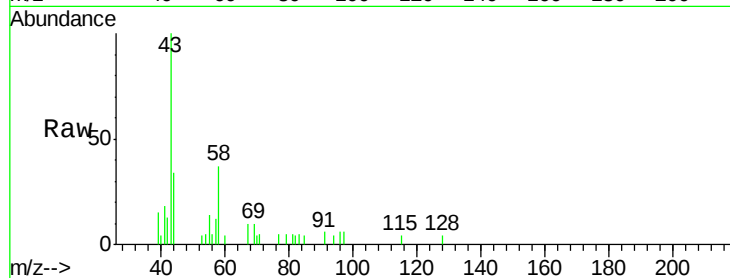
ClientSampleId :

Tot Ion: 43 Resp: 4251

Ion Ratio Lower Upper

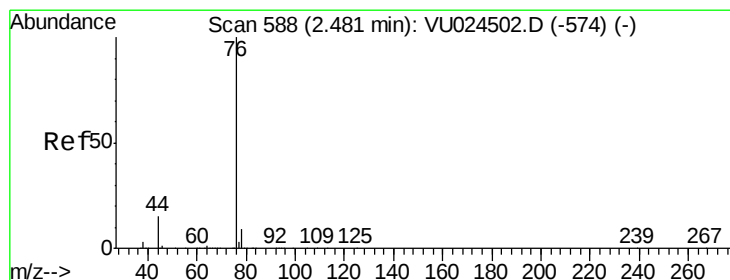
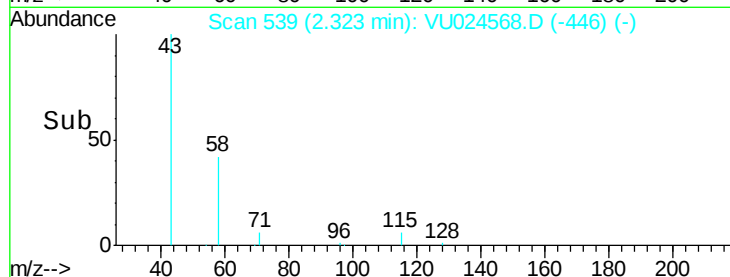
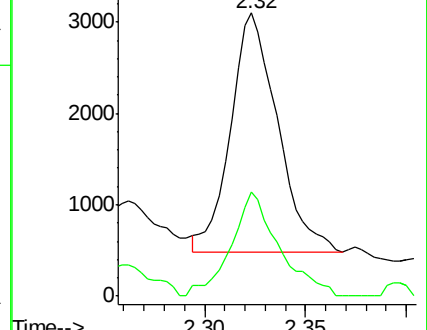
43 100

58 43.5 24.4 36.6#



Abundance Ion 43.00 (42.70 to 43.70): VU024502.D (-521) (-)

Ion 58.00 (57.70 to 58.70): VU024502.D (-521) (-)



#17

Carbon Disulfide

Concen: 0.266 ug/l

RT: 2.49 min Scan# 590

Delta R.T. 0.01 min

Lab File: VU024568.D

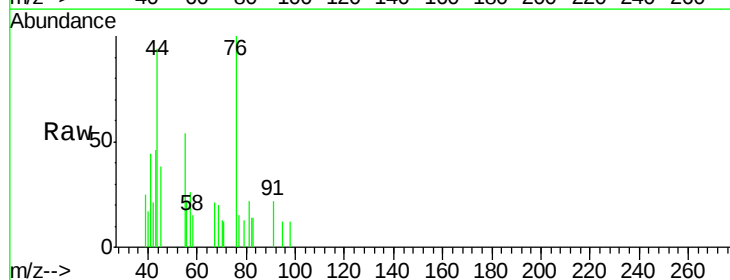
Acq: 15 Jun 2018 02:54

Tgt Ion: 76 Resp: 1744

Ion Ratio Lower Upper

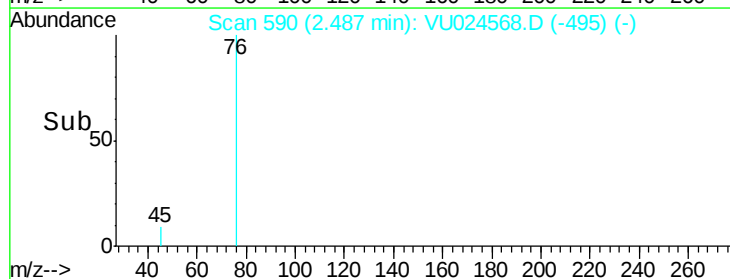
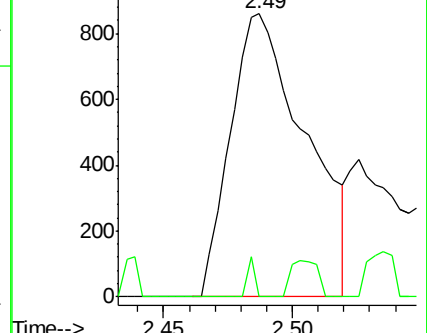
76 100

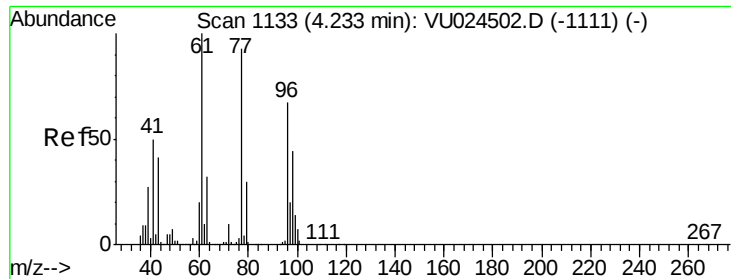
78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VU024502.D (-574) (-)

Ion 77.90 (77.60 to 78.60): VU024502.D (-574) (-)

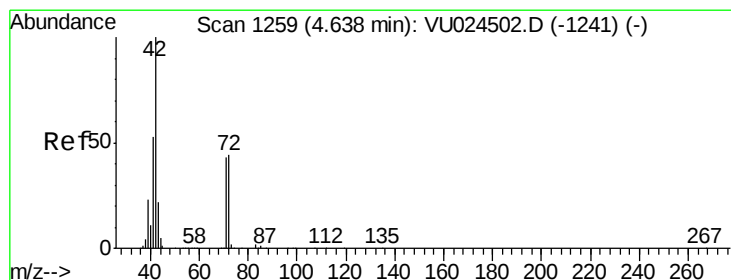
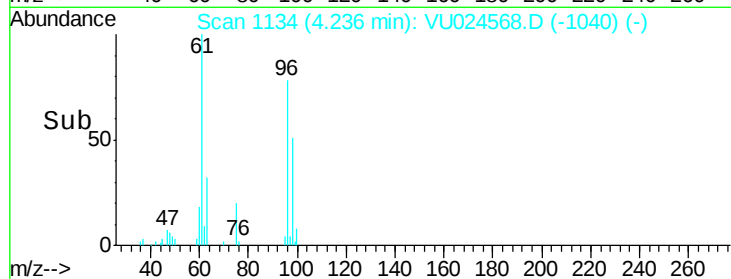
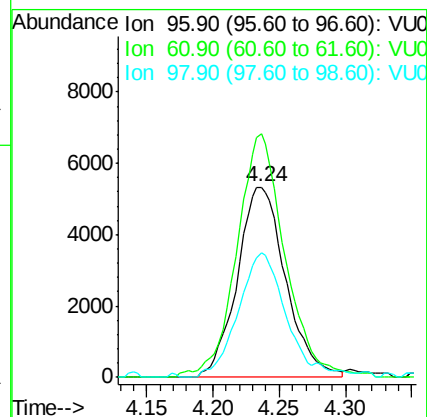
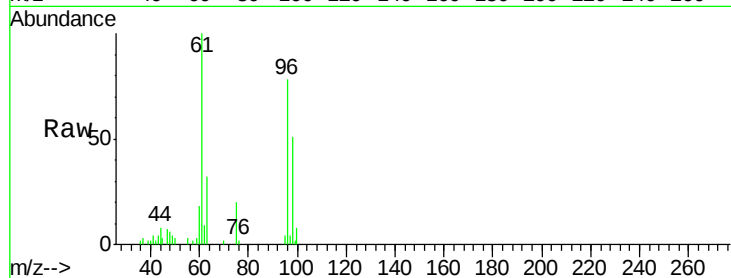




#27
 cis-1,2-Dichloroethene
 Concen: 5.213 ug/l
 RT: 4.24 min Scan# 1134
 Delta R.T. 0.00 min
 Lab File: VU024568.D
 Acq: 15 Jun 2018 02:54

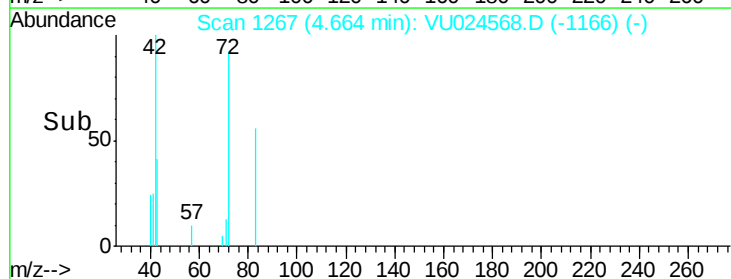
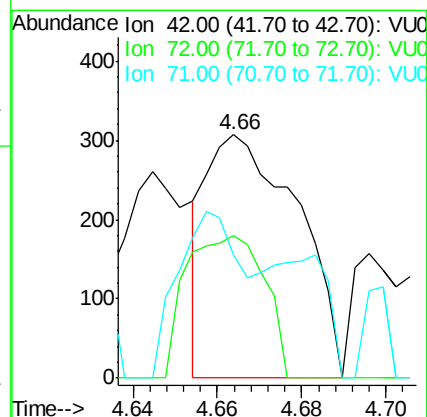
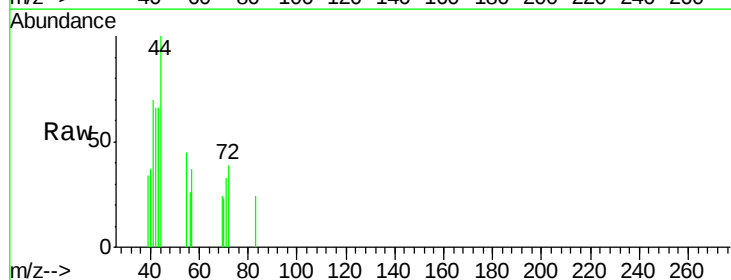
Instrument :
 MSVOA_U
 ClientSampleId :

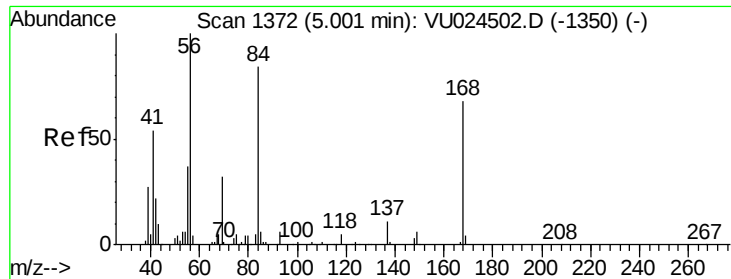
Tot Ion	Ratio	Lower	Upper
96	100		
61	127.7	0.0	306.6
98	65.0	0.0	128.8



#29
 Tetrahydrofuran
 Concen: 0.351 ug/l
 RT: 4.66 min Scan# 1267
 Delta R.T. 0.03 min
 Lab File: VU024568.D
 Acq: 15 Jun 2018 02:54

Tgt Ion	Ratio	Lower	Upper
42	100		
72	50.5	34.5	51.7
71	46.4	32.2	48.4

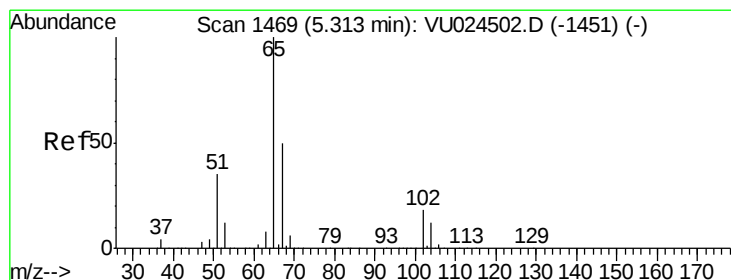
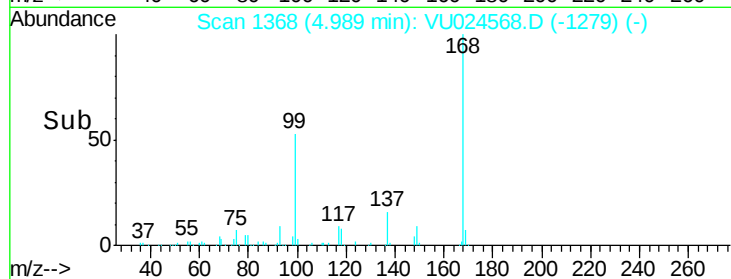
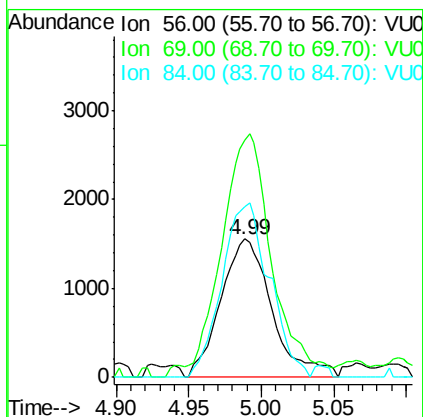
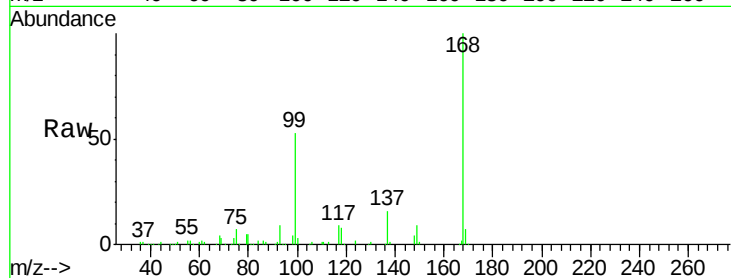




#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1368
Delta R.T. -0.01 min
Lab File: VU024568.D
Acq: 15 Jun 2018 02:54

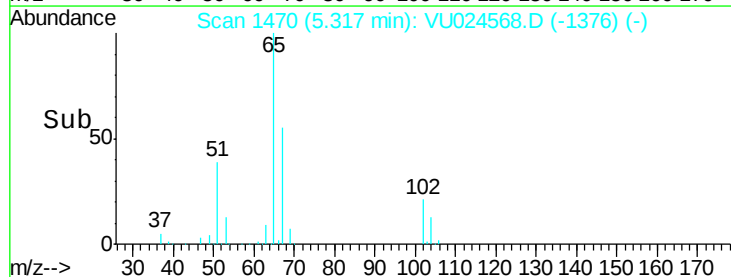
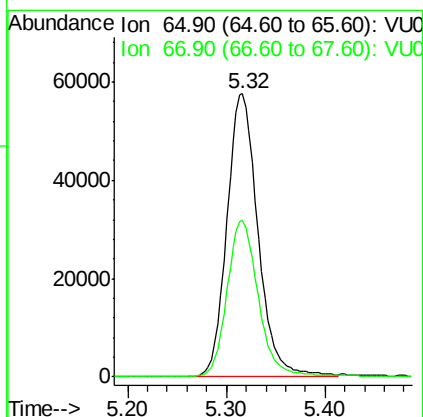
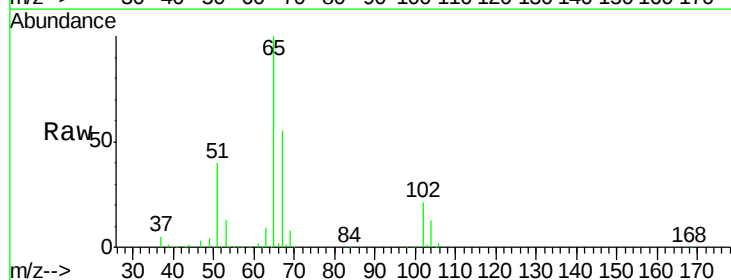
Instrument :
MSVOA_U
ClientSampleId :

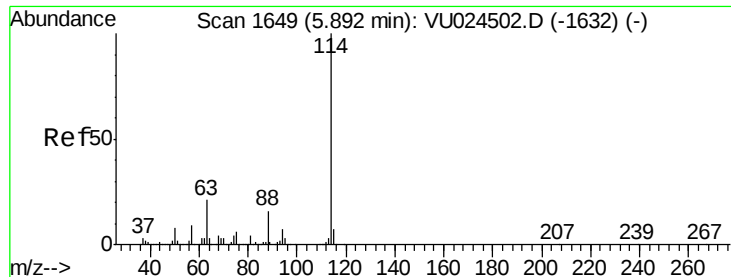
Tot Ion: 56 Resp: 3812
Ion Ratio Lower Upper
56 100
69 163.4 24.8 37.2#
84 123.8 65.2 97.8#



#33
1,2-Dichloroethane-d4
Concen: 43.186 ug/l
RT: 5.32 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VU024568.D
Acq: 15 Jun 2018 02:54

Tgt Ion: 65 Resp: 126957
Ion Ratio Lower Upper
65 100
67 55.5 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: VU024568.D

Acq: 15 Jun 2018 02:54

Instrument :

MSVOA_U

ClientSampleId :

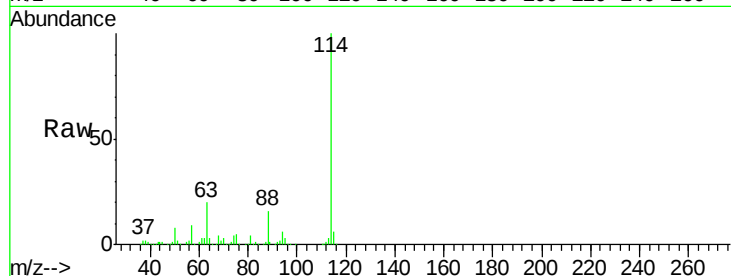
Tot Ion:114 Resp: 293591

Ion Ratio Lower Upper

114 100

63 20.1 0.0 45.4

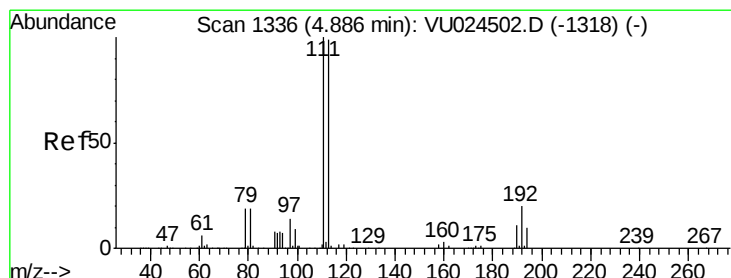
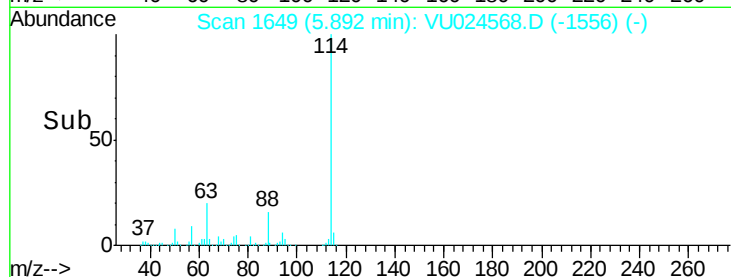
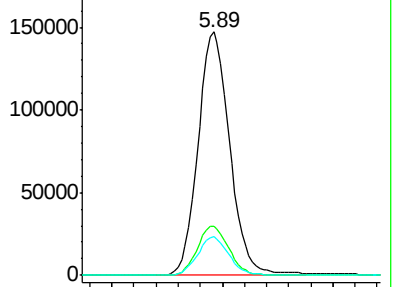
88 15.8 0.0 31.0



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: 48.491 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU024568.D

Acq: 15 Jun 2018 02:54

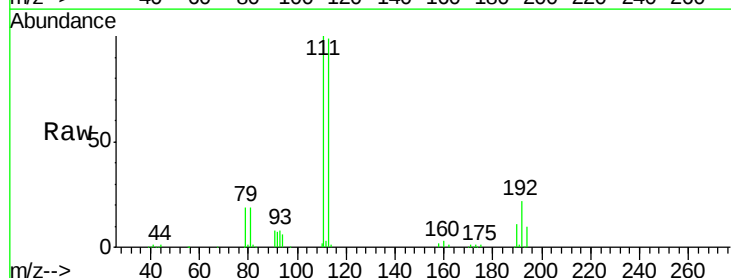
Tgt Ion:113 Resp: 118152

Ion Ratio Lower Upper

113 100

111 102.0 82.2 123.4

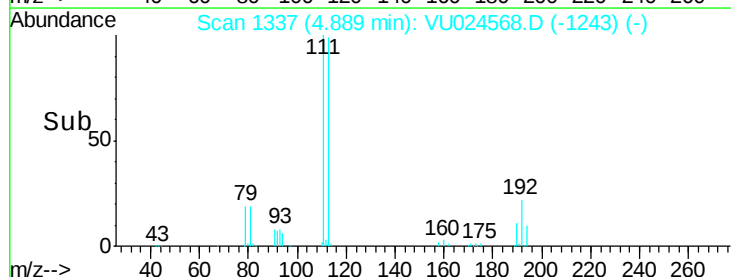
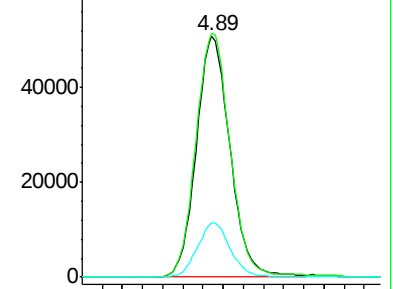
192 22.2 16.2 24.4

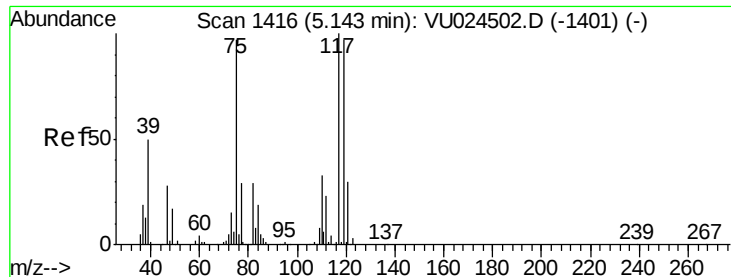


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

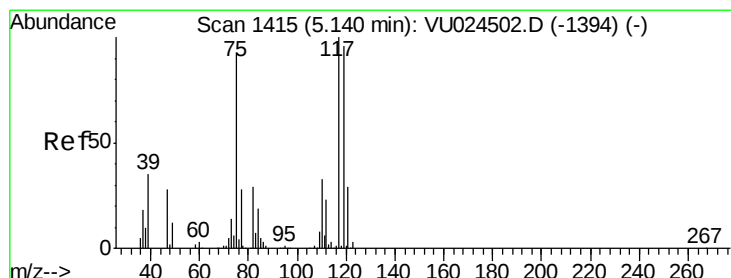
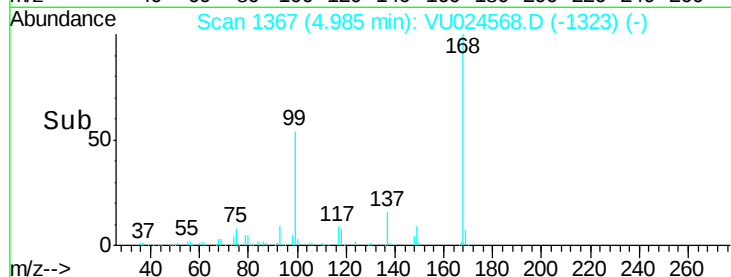
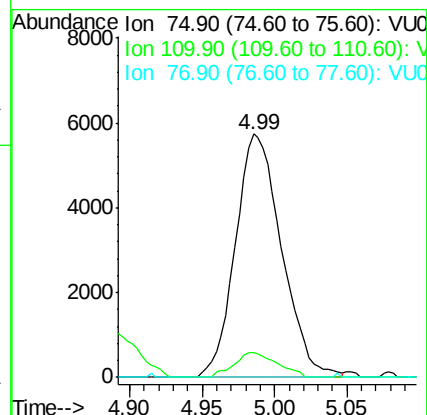
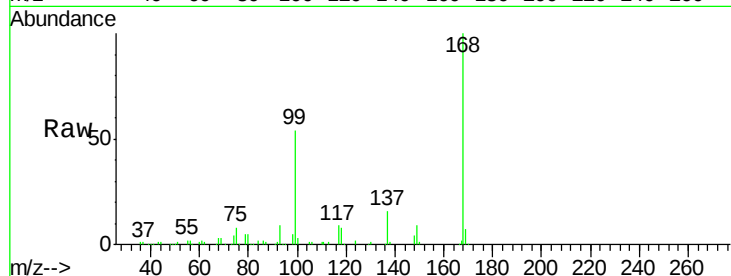




#36
 1,1-Dichloropropene
 Concen: 3.680 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.16 min
 Lab File: VU024568.D
 Acq: 15 Jun 2018 02:54

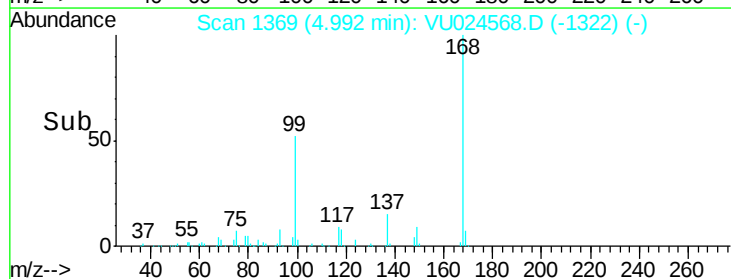
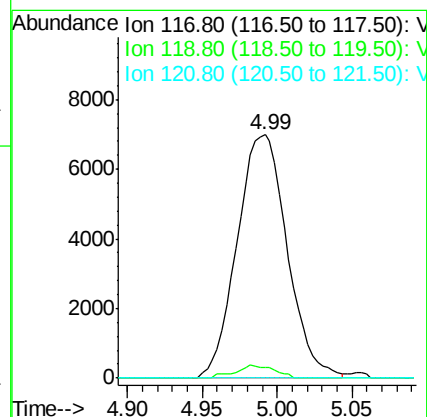
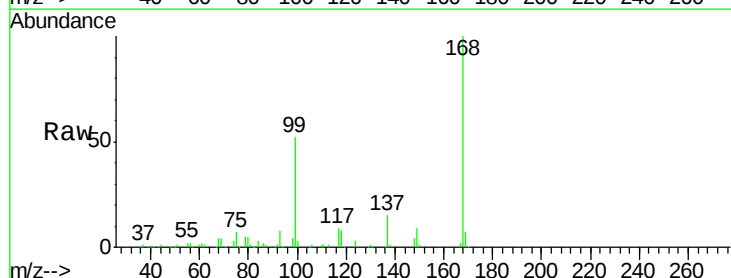
Instrument :
 MSVOA_U
 ClientSampleId :

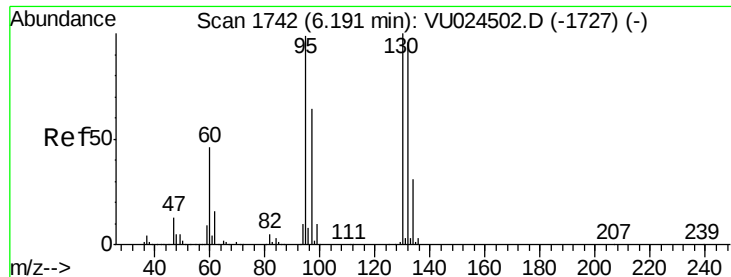
Tot Ion	75	110	77	Resp	Lower	Upper
12695	100	9.6	0.0		17.0	50.9#
					24.2	36.4#



#38
 Carbon Tetrachloride
 Concen: 4.289 ug/l
 RT: 4.99 min Scan# 1369
 Delta R.T. -0.15 min
 Lab File: VU024568.D
 Acq: 15 Jun 2018 02:54

Tgt Ion	117	119	121	Resp	Lower	Upper
16273	100	4.6	0.0		76.1	114.1#
					23.7	35.5#





#44

Trichloroethene

Concen: 0.358 ug/l

RT: 6.20 min Scan# 1744

Delta R.T. 0.01 min

Lab File: VU024568.D

Acq: 15 Jun 2018 02:54

Instrument :

MSVOA_U

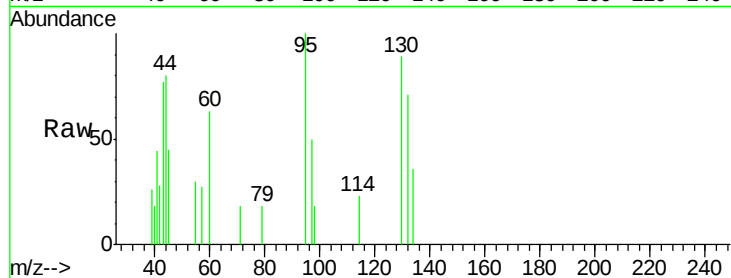
ClientSampleId :

Tot Ion:130 Resp: 1002

Ion Ratio Lower Upper

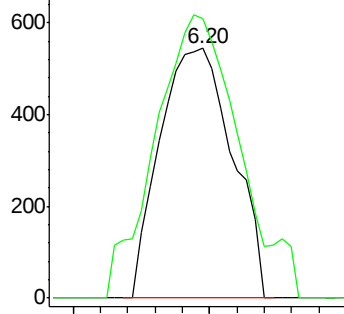
130 100

95 91.0 0.0 202.4

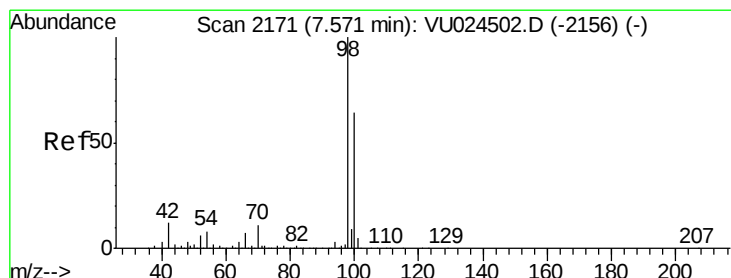
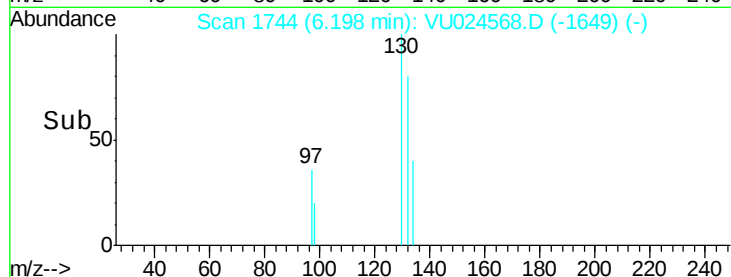


Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VU0



Time--> 6.15 6.20



#50

Toluene-d8

Concen: 49.365 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. -0.00 min

Lab File: VU024568.D

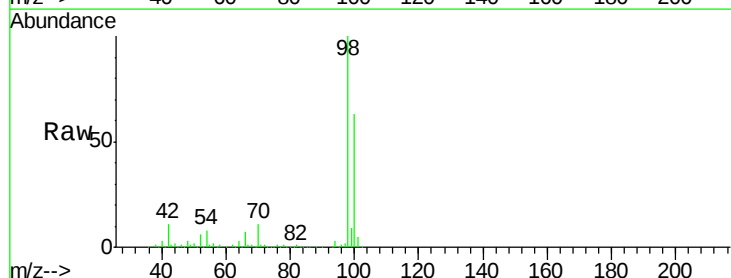
Acq: 15 Jun 2018 02:54

Tgt Ion: 98 Resp: 438737

Ion Ratio Lower Upper

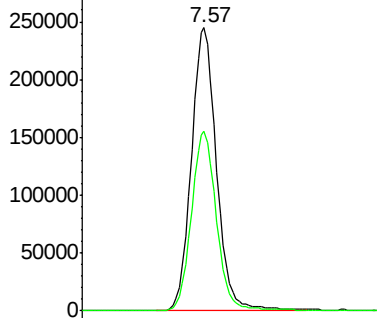
98 100

100 63.9 51.1 76.7

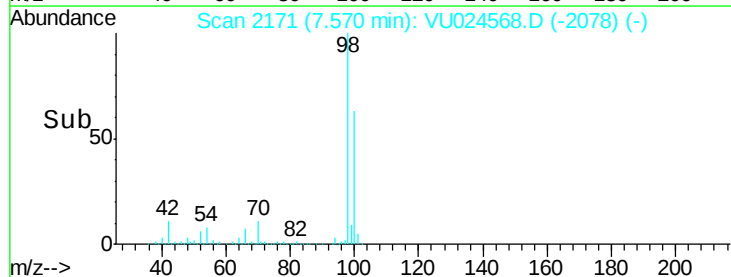


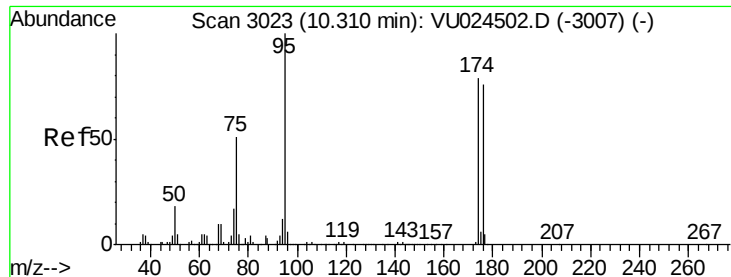
Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU0



Time--> 7.50 7.60 7.70





#62

4-Bromofluorobenzene

Concen: 47.637 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.00 min

Lab File: VU024568.D

Acq: 15 Jun 2018 02:54

Instrument :

MSVOA_U

ClientSampleId :

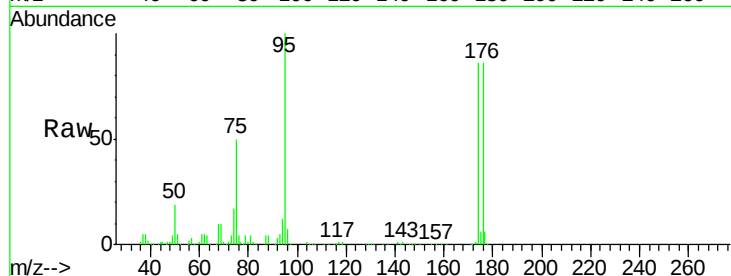
Tot Ion: 95 Resp: 168100

Ion Ratio Lower Upper

95 100

174 86.3 0.0 165.8

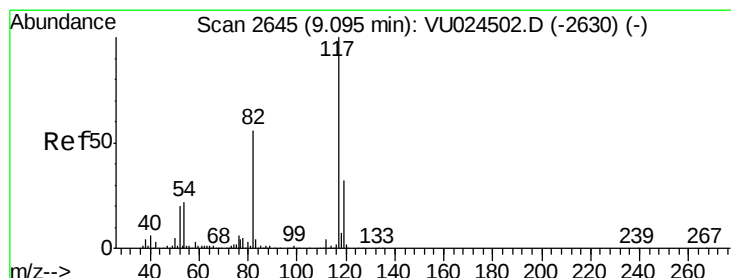
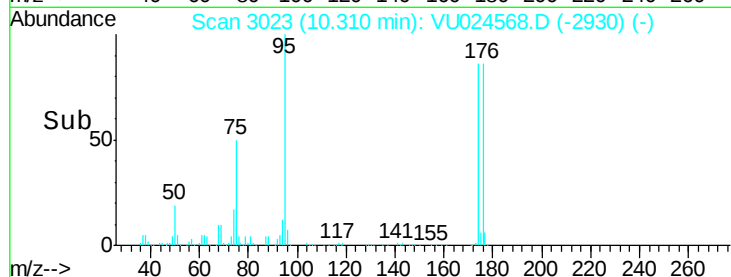
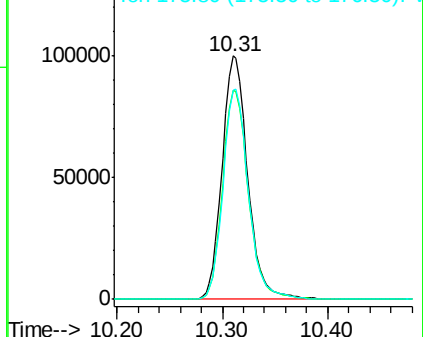
176 85.4 0.0 159.4



Abundance Ion 94.90 (94.60 to 95.60): VU024502.D (-3007) (-)

Ion 173.80 (173.50 to 174.50): VU024502.D (-3007) (-)

Ion 175.80 (175.50 to 176.50): VU024502.D (-3007) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2645

Delta R.T. -0.00 min

Lab File: VU024568.D

Acq: 15 Jun 2018 02:54

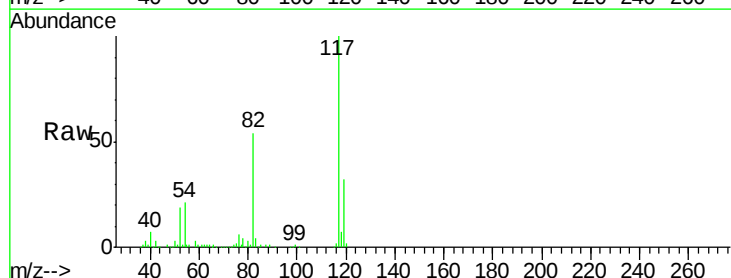
Tgt Ion: 117 Resp: 288913

Ion Ratio Lower Upper

117 100

82 53.8 44.3 66.5

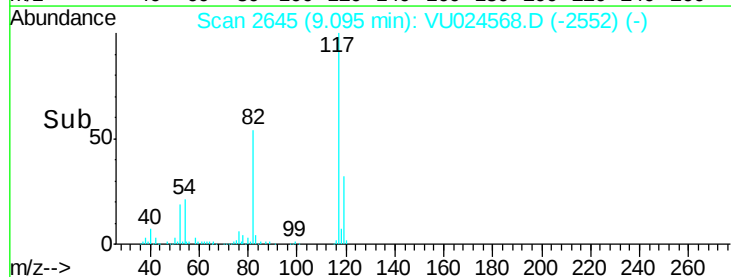
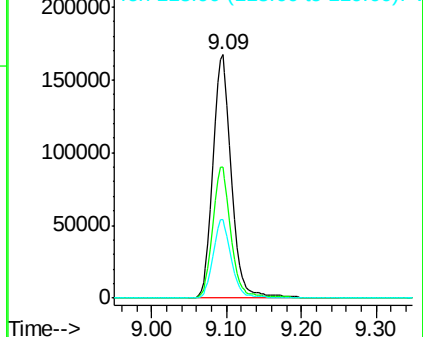
119 32.4 25.4 38.2

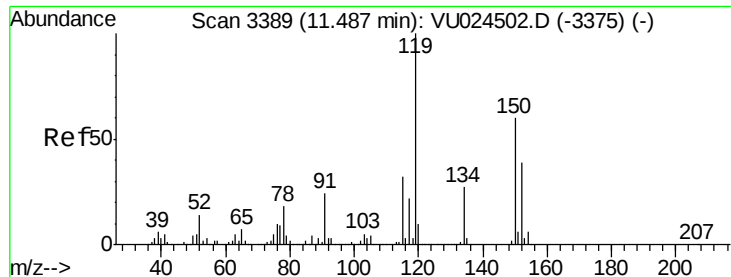


Abundance Ion 116.90 (116.60 to 117.60): VU024502.D (-2630) (-)

Ion 82.00 (81.70 to 82.70): VU024502.D (-2630) (-)

Ion 118.90 (118.60 to 119.60): VU024502.D (-2630) (-)



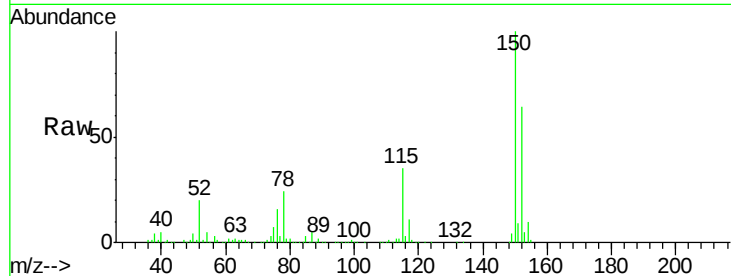


#72

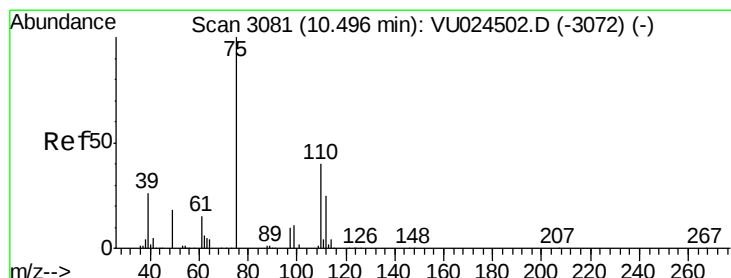
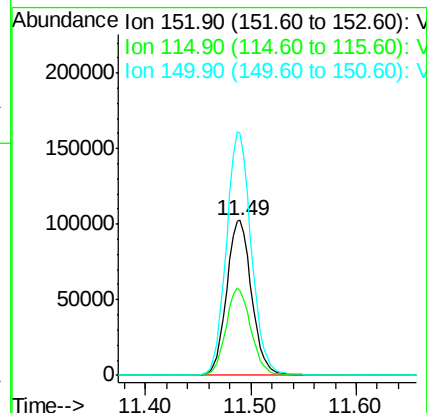
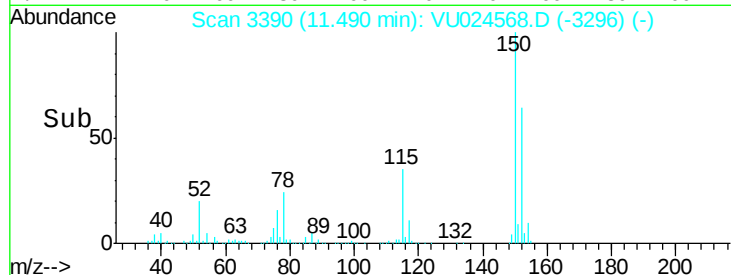
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.49 min Scan# 3390
Delta R.T. 0.00 min
Lab File: VU024568.D
Acq: 15 Jun 2018 02:54

Instrument :
MSVOA_U
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	56.1	43.0	129.0
150	156.4	0.0	354.0



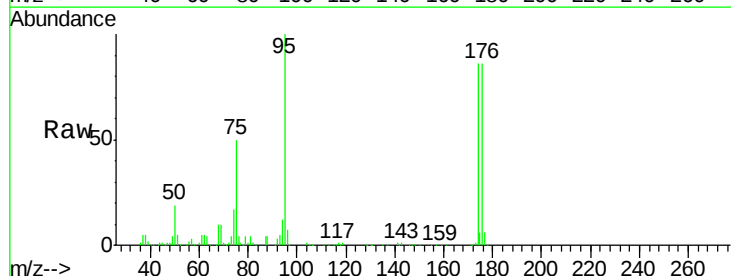
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



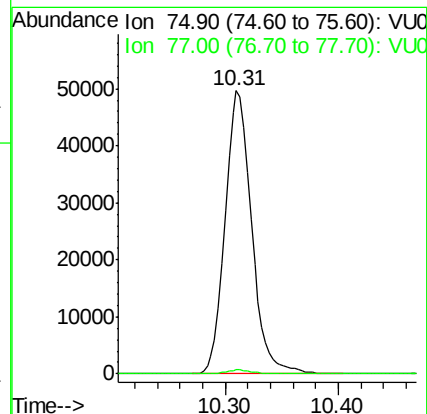
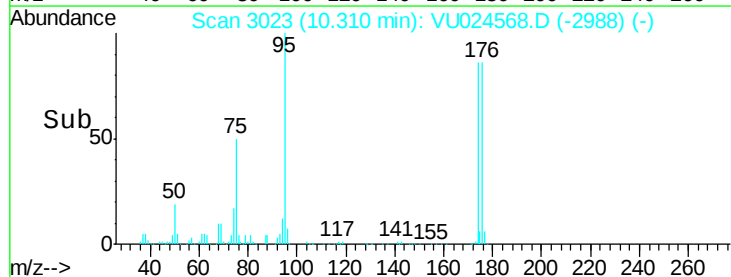
#76

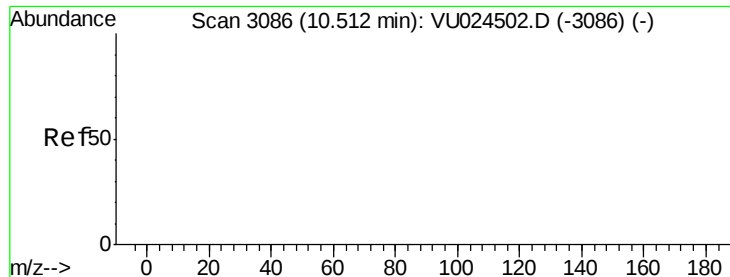
1,2,3-Trichloropropane
Concen: 21.923 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. -0.19 min
Lab File: VU024568.D
Acq: 15 Jun 2018 02:54

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.3	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: 50.739 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU024568.D

Acq: 15 Jun 2018 02:54

Instrument :

MSVOA_U

ClientSampleId :

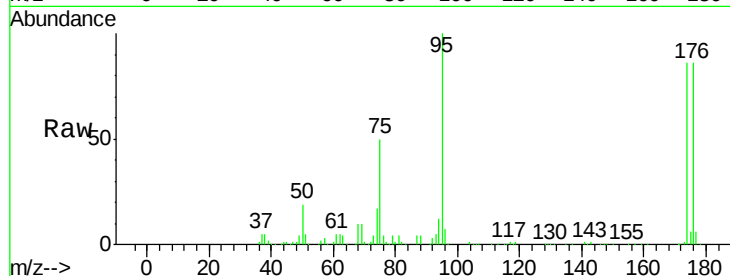
Tot Ion: 75 Resp: 81255

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

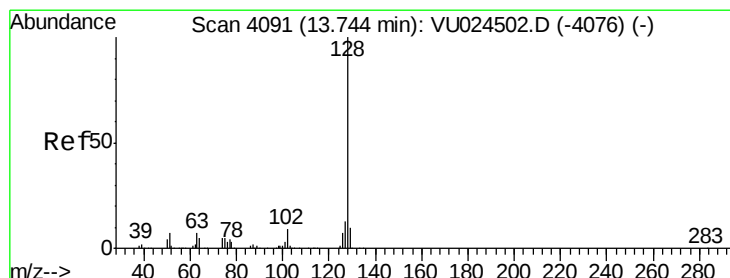
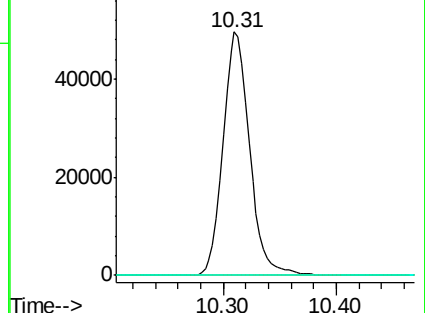
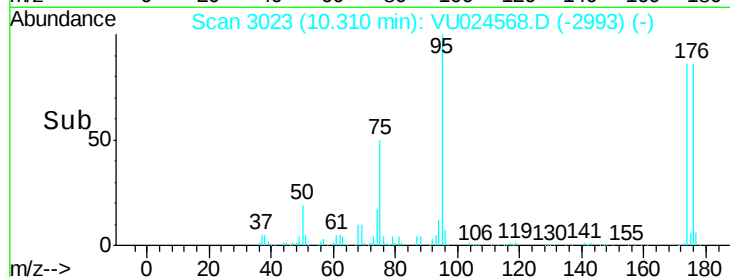
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): 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: 0.681 ug/l

RT: 13.78 min Scan# 4103

Delta R.T. 0.04 min

Lab File: VU024568.D

Acq: 15 Jun 2018 02:54

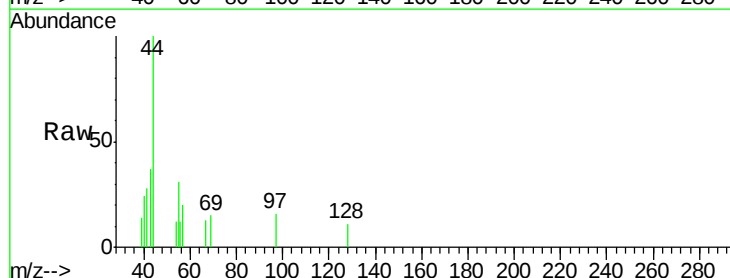
Tgt Ion:128 Resp: 19

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): 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) (-)

