

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU070318\
 Data File : VU025197.D
 Acq On : 03 Jul 2018 18:26
 Operator : MD/SY
 Sample : J3813-03
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 04 05:00:13 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

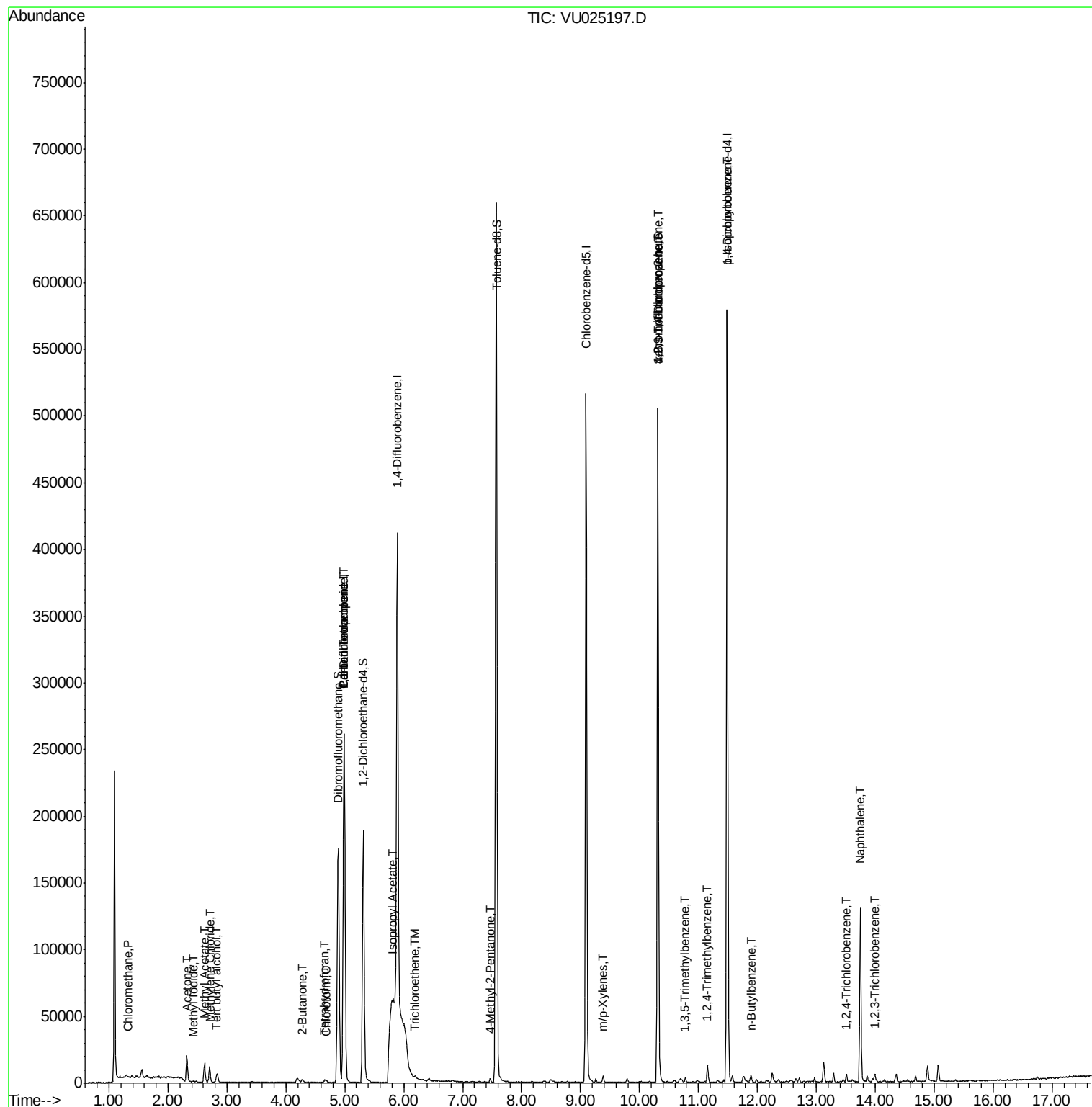
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	200579	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	304610	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	283683	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	149284	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	155086	47.36	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.72%	
35) Dibromofluoromethane	4.89	113	119137	47.13	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.26%	
50) Toluene-d8	7.57	98	438083	47.51	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.02%	
62) 4-Bromofluorobenzene	10.31	95	160809	43.92	ug/l	0.00
Spiked Amount 50.000			Recovery	=	87.84%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.33	50	675	0.263	ug/l	90
6) Chloroethane	1.71	64	104	Below Cal	#	43
8) Diethyl Ether	2.11	74	67	Below Cal	#	1
10) Methyl Iodide	2.42	142	350	5.436	ug/l #	63
11) Tert butyl alcohol	2.82	59	6273	7.877	ug/l #	83
16) Acetone	2.32	43	20858	11.855	ug/l	91
18) Methyl Acetate	2.62	43	17512	4.643	ug/l	96
20) Methylene Chloride	2.71	84	5319	1.927	ug/l #	83
25) 2-Butanone	4.28	43	3490	1.477	ug/l	93
29) Tetrahydrofuran	4.65	42	898	0.614	ug/l #	87
30) Chloroform	4.69	83	1712	0.350	ug/l #	79
31) Cyclohexane	4.99	56	4198	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	15243	4.259	ug/l #	50
38) Carbon Tetrachloride	4.99	117	19329	4.911	ug/l #	16
43) Isopropyl Acetate	5.82	43	108433	16.079	ug/l #	62
44) Trichloroethene	6.19	130	615	0.212	ug/l	86
51) 4-Methyl-2-Pentanone	7.46	43	1901	0.449	ug/l	93
68) m/p-Xylenes	9.38	106	1553	0.318	ug/l	92
76) 1,2,3-Trichloropropane	10.31	75	83867	25.517	ug/l #	35
80) 1,3,5-Trimethylbenzene	10.78	105	2347	0.236	ug/l	90
81) trans-1,4-Dichloro-2-buten	10.31	75	83867	59.057	ug/l #	100
84) 1,2,4-Trimethylbenzene	11.16	105	6793	0.671	ug/l	95
86) p-Isopropyltoluene	11.48	119	2563	0.239	ug/l #	84
89) n-Butylbenzene	11.89	91	2379	0.250	ug/l #	87
93) 1,2,4-Trichlorobenzene	13.51	180	1760	0.531	ug/l	93
95) Naphthalene	13.75	128	104513	10.071	ug/l	99
96) 1,2,3-Trichlorobenzene	13.99	180	2286	0.692	ug/l	89

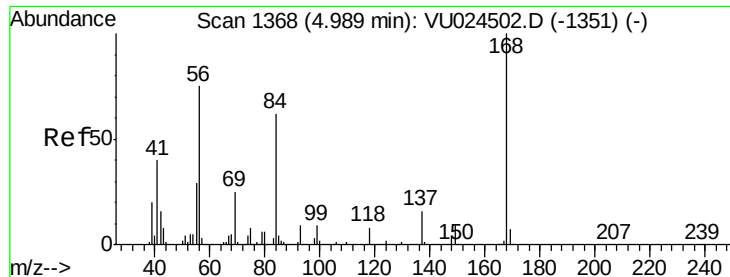
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU025197.D

Acq: 03 Jul 2018 18:26

Instrument :

MSVOA_U

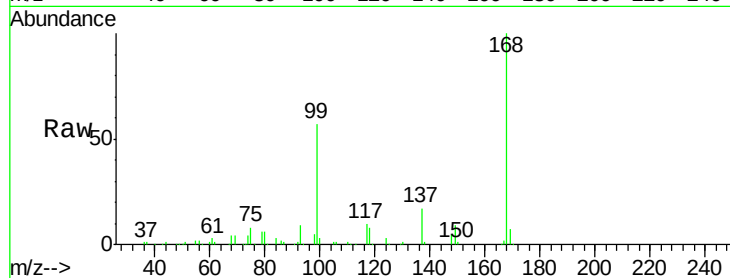
ClientSampleId :

Tot Ion:168 Resp: 200579

Ion Ratio Lower Upper

168 100

99 56.7 43.2 64.8



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

Ion 98.90 (98.60 to 99.60): VU024502.D

4.99

80000

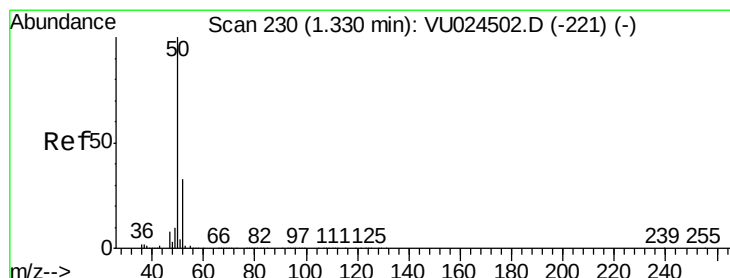
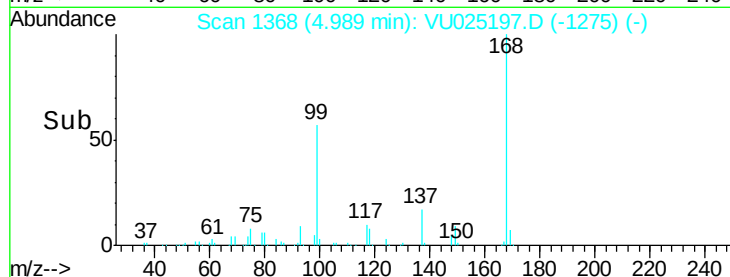
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.263 ug/l

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU025197.D

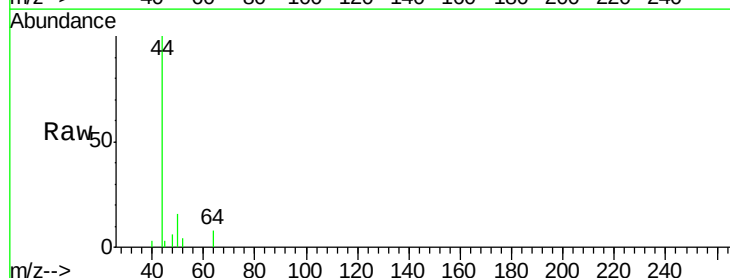
Acq: 03 Jul 2018 18:26

Tgt Ion: 50 Resp: 675

Ion Ratio Lower Upper

50 100

52 27.4 26.4 39.6



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

Ion 51.90 (51.60 to 52.60): VU024502.D

1.33

600

500

400

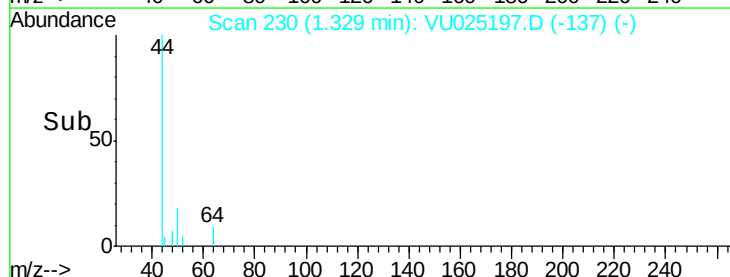
300

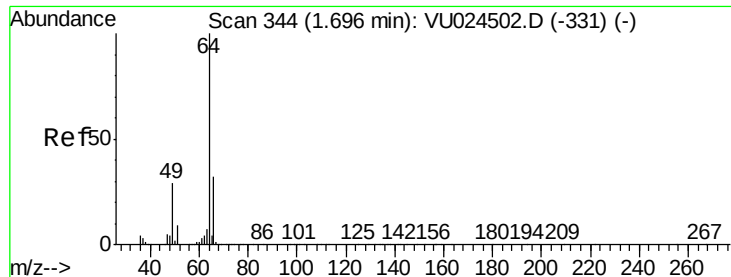
200

100

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 349

Delta R.T. 0.02 min

Lab File: VU025197.D

Acq: 03 Jul 2018 18:26

Instrument :

MSVOA_U

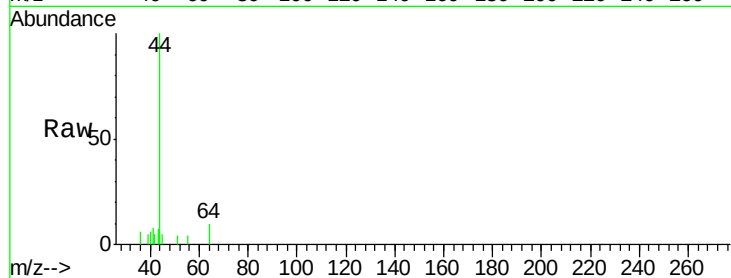
ClientSampled :

Tot Ion: 64 Resp: 104

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

1.71

250

200

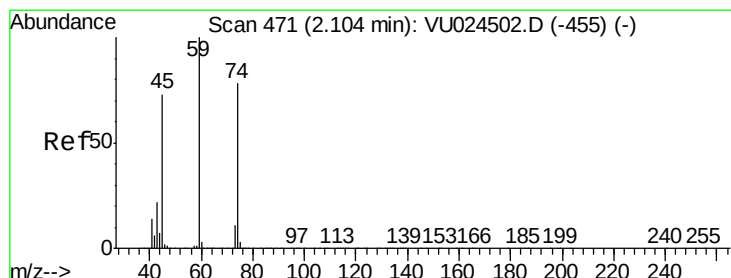
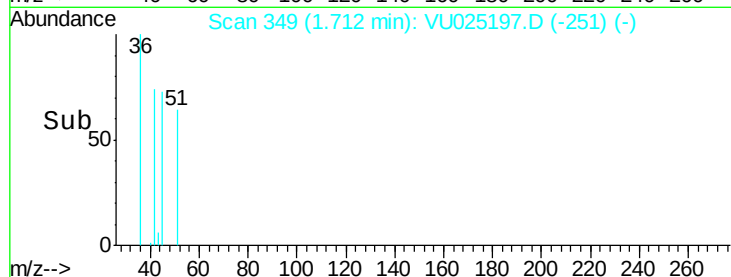
150

100

50

0

Time-->



#8

Diethyl Ether

Concen: Below Cal

RT: 2.11 min Scan# 473

Delta R.T. 0.01 min

Lab File: VU025197.D

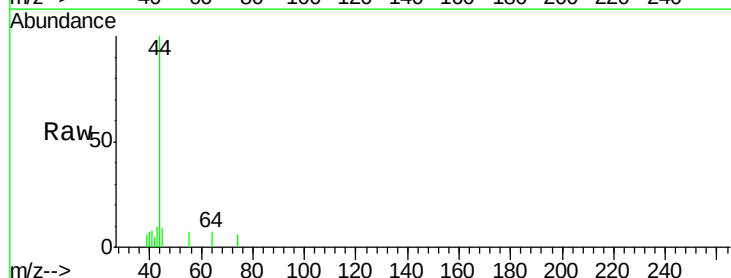
Acq: 03 Jul 2018 18:26

Tgt Ion: 74 Resp: 67

Ion Ratio Lower Upper

74 100

45 674.6 55.0 165.0#



Abundance Ion 74.00 (73.70 to 74.70): VU0

Ion 45.00 (44.70 to 45.70): VU0

250

200

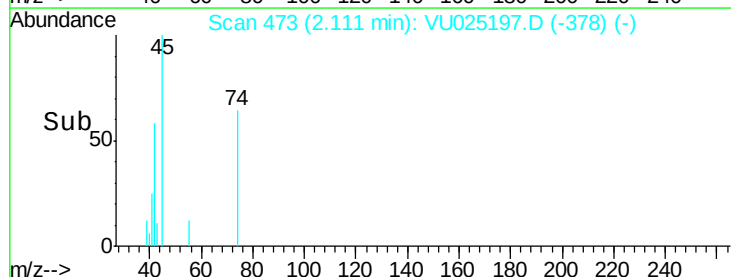
150

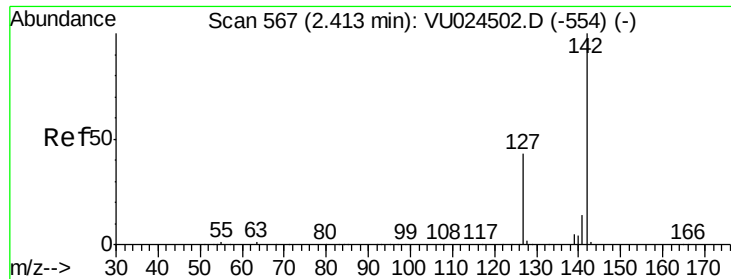
100

50

0

Time-->

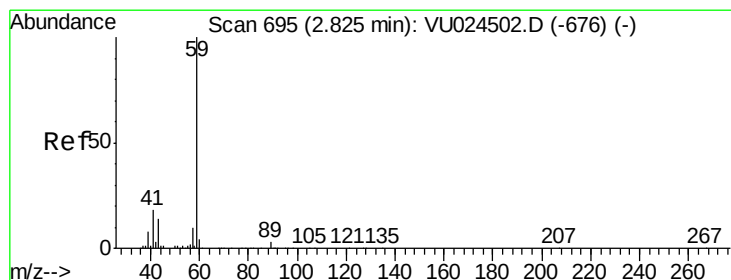
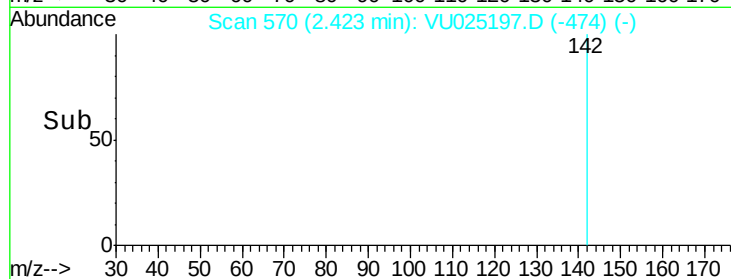
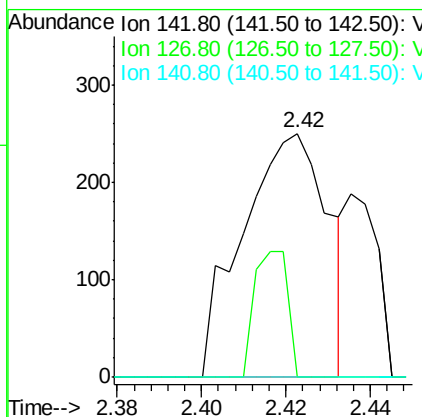
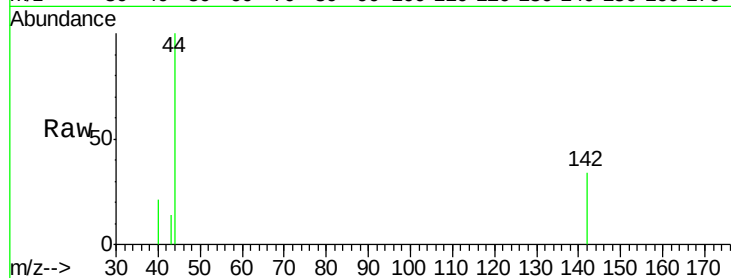




#10
Methvl Iodide
Concen: 5.436 ug/l
RT: 2.42 min Scan# 570
Delta R.T. 0.01 min
Lab File: VU025197.D
Acq: 03 Jul 2018 18:26

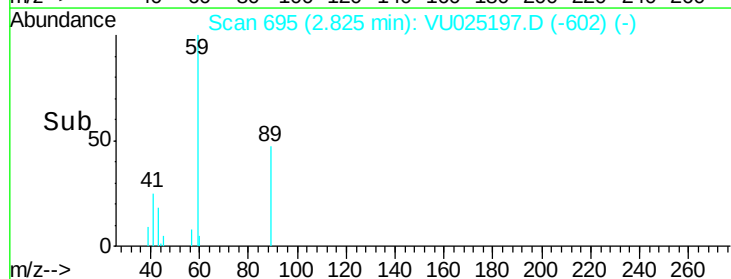
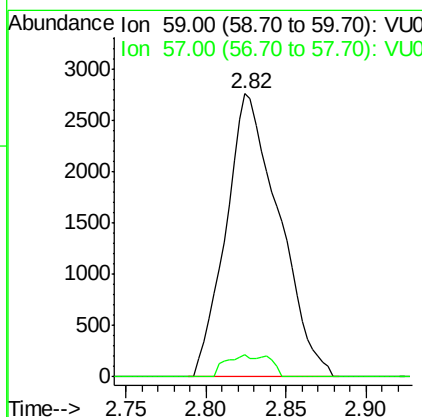
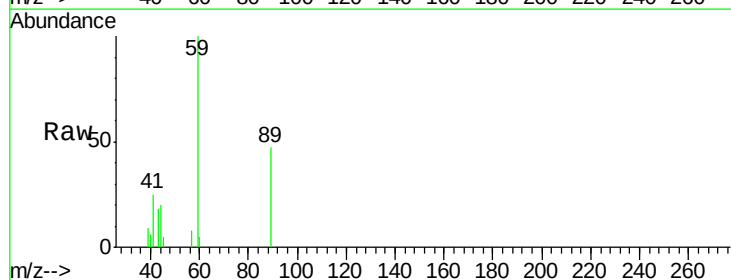
Instrument :
MSVOA_U
ClientSampleId :

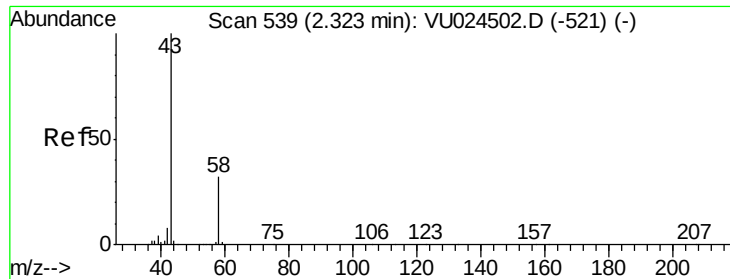
Tot Ion:142 Resp: 350
Ion Ratio Lower Upper
142 100
127 20.3 35.6 53.4#
141 0.0 11.7 17.5#



#11
Tert butyl alcohol
Concen: 7.877 ug/l
RT: 2.82 min Scan# 695
Delta R.T. -0.00 min
Lab File: VU025197.D
Acq: 03 Jul 2018 18:26

Tgt Ion: 59 Resp: 6273
Ion Ratio Lower Upper
59 100
57 4.3 8.5 12.7#





#16

Acetone

Concen: 11.855 ug/l

RT: 2.32 min Scan# 538

Delta R.T. -0.00 min

Lab File: VU025197.D

Acq: 03 Jul 2018 18:26

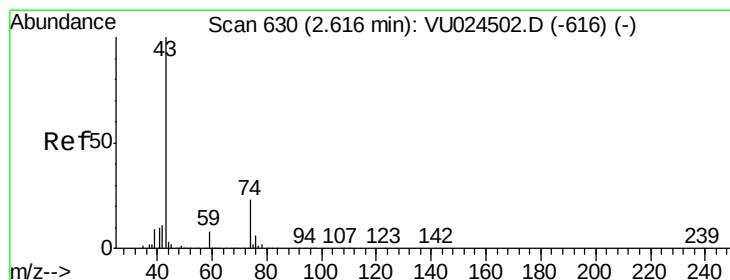
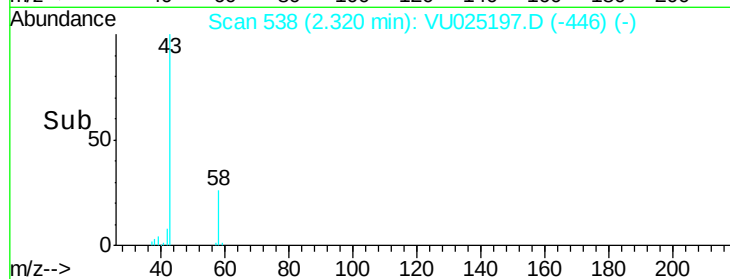
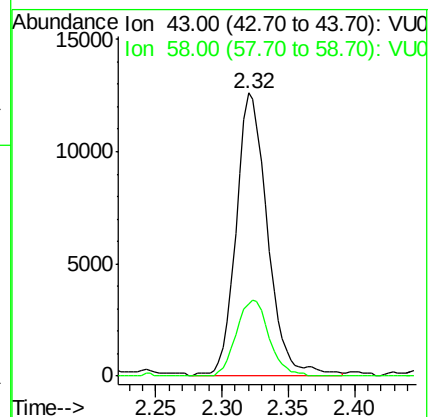
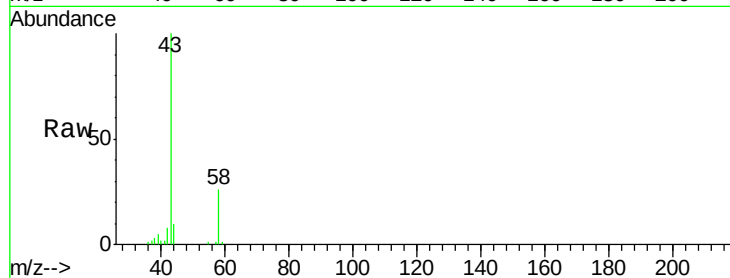
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 20858

Ion Ratio Lower Upper

43 100

58 25.5 24.4 36.6



#18

Methyl Acetate

Concen: 4.643 ug/l

RT: 2.62 min Scan# 631

Delta R.T. 0.00 min

Lab File: VU025197.D

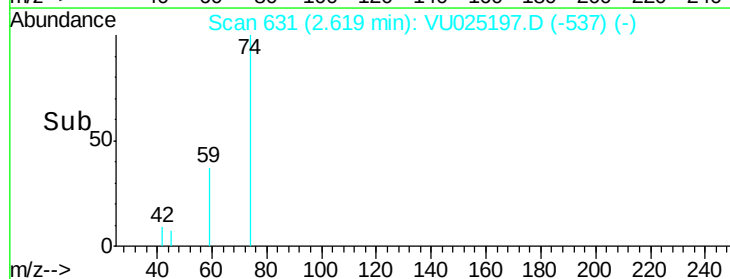
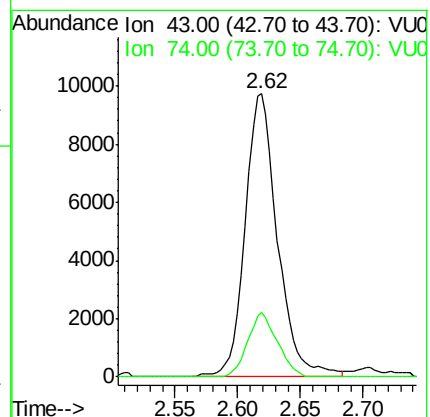
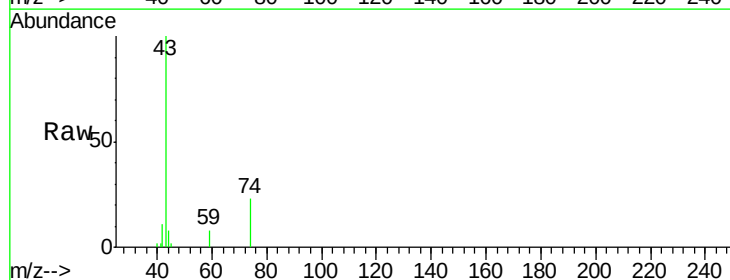
Acq: 03 Jul 2018 18:26

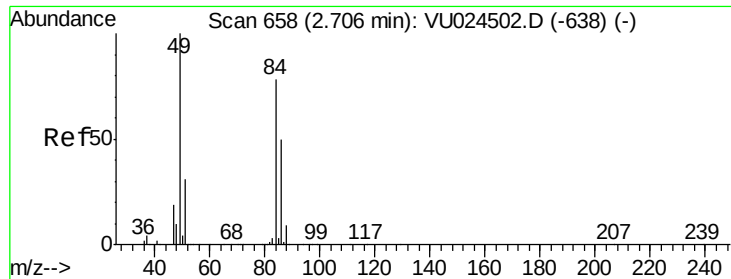
Tgt Ion: 43 Resp: 17512

Ion Ratio Lower Upper

43 100

74 20.7 18.0 27.0

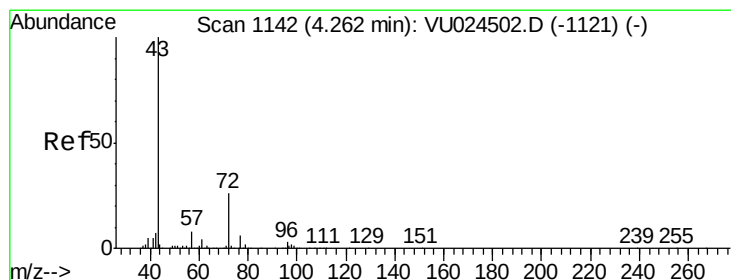
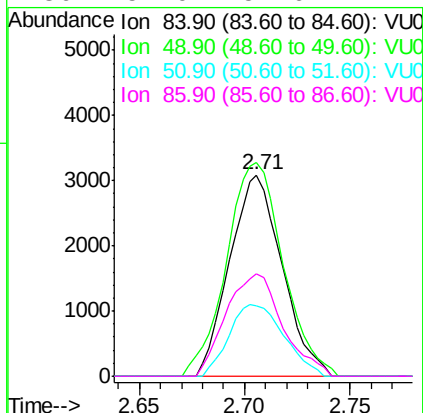
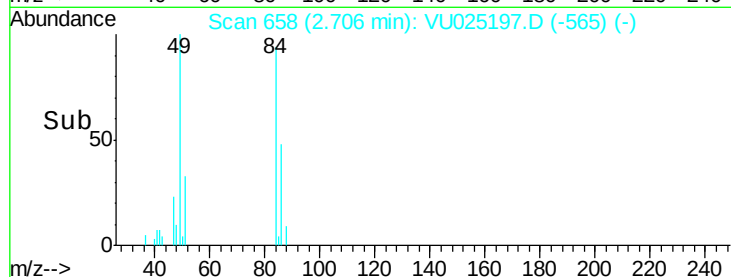
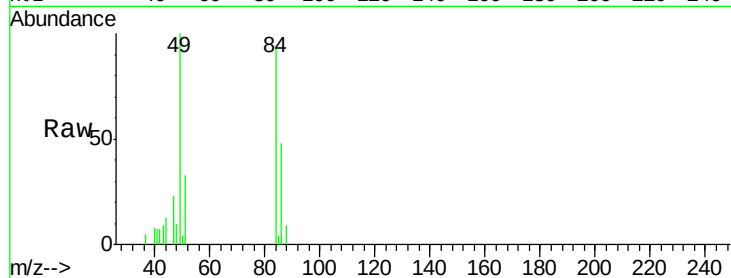




#20
Methvlene Chloride
Concen: 1.927 ug/l
RT: 2.71 min Scan# 658
Delta R.T. -0.00 min
Lab File: VU025197.D
Acq: 03 Jul 2018 18:26

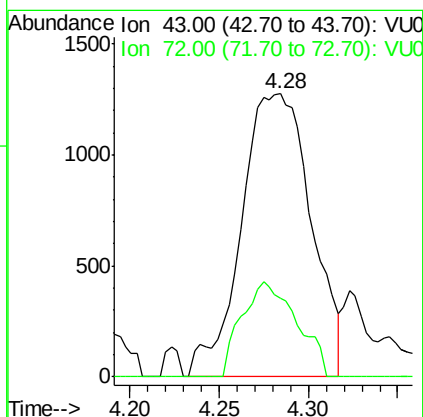
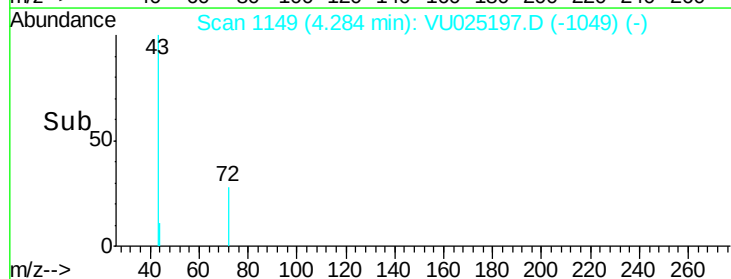
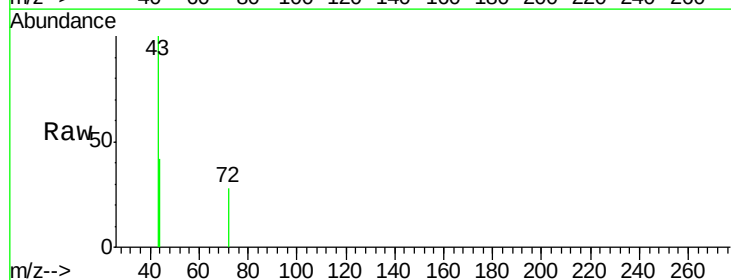
Instrument :
MSVOA_U
ClientSampled :

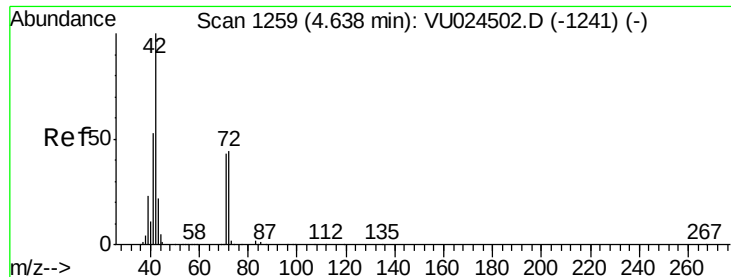
Tot Ion	84	Resp	5319
Ion	Ratio	Lower	Upper
84	100		
49	106.3	103.8	155.8
51	35.2	32.0	48.0
86	51.0	51.6	77.4



#25
2-Butanone
Concen: 1.477 ug/l
RT: 4.28 min Scan# 1149
Delta R.T. 0.02 min
Lab File: VU025197.D
Acq: 03 Jul 2018 18:26

Tgt Ion	43	Resp	3490
Ion	Ratio	Lower	Upper
43	100		
72	27.8	19.6	29.4





#29

Tetrahydrofuran

Concen: 0.614 ug/l

RT: 4.65 min Scan# 1264

Delta R.T. 0.02 min

Lab File: VU025197.D

Acq: 03 Jul 2018 18:26

Instrument :

MSVOA_U

ClientSampleId :

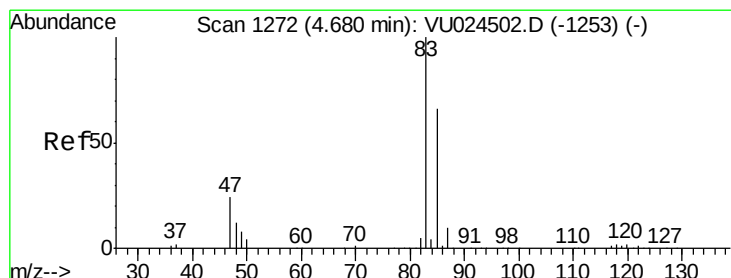
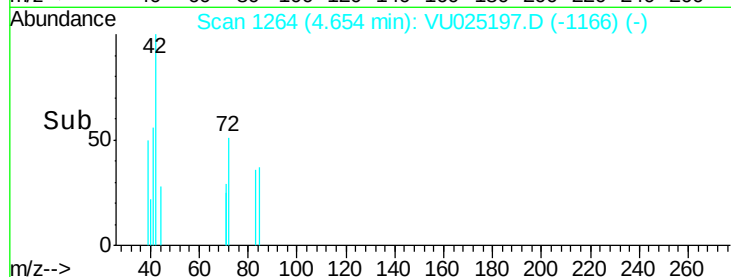
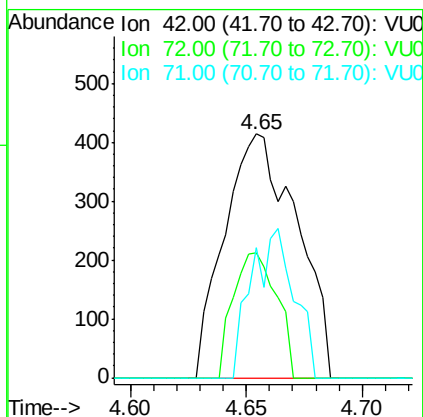
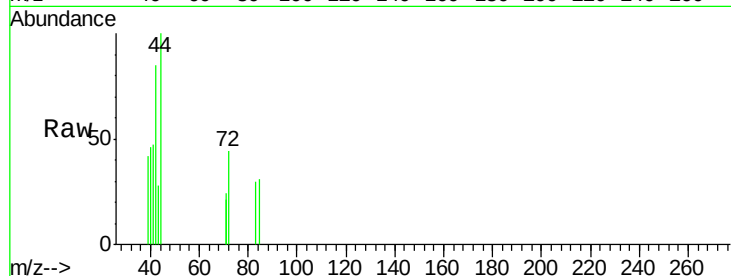
Tot Ion: 42 Resp: 898

Ion Ratio Lower Upper

42 100

72 30.7 34.5 51.7#

71 36.2 32.2 48.4



#30

Chloroform

Concen: 0.350 ug/l

RT: 4.69 min Scan# 1274

Delta R.T. 0.01 min

Lab File: VU025197.D

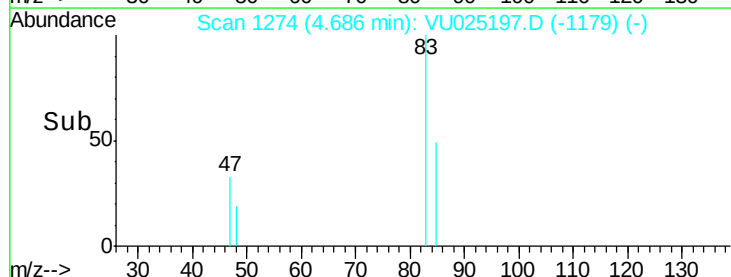
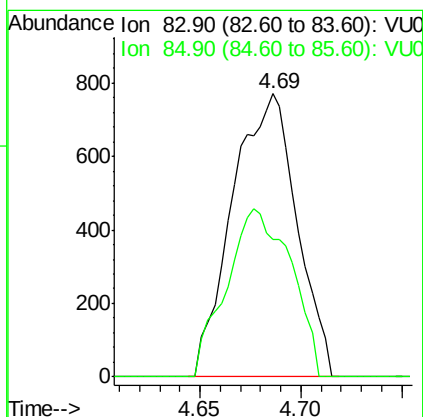
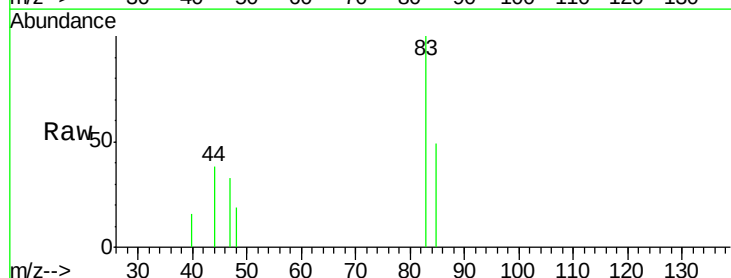
Acq: 03 Jul 2018 18:26

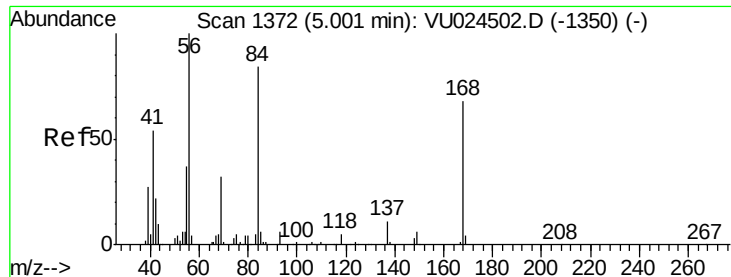
Tgt Ion: 83 Resp: 1712

Ion Ratio Lower Upper

83 100

85 48.6 52.4 78.6#

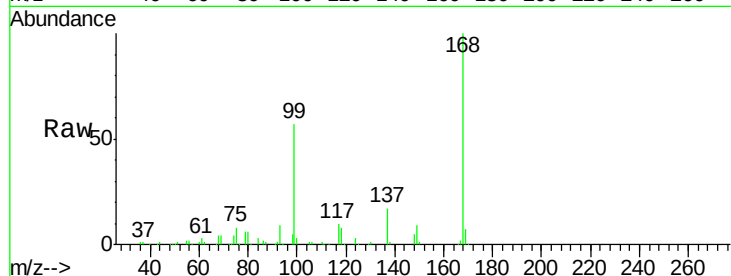




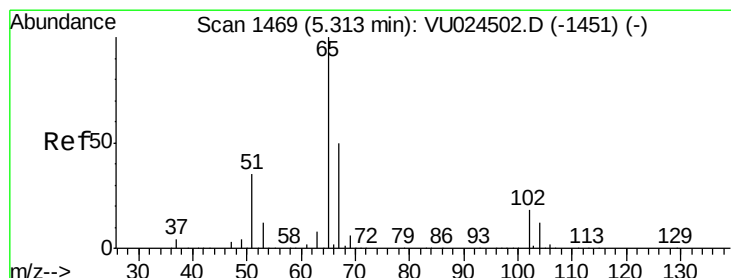
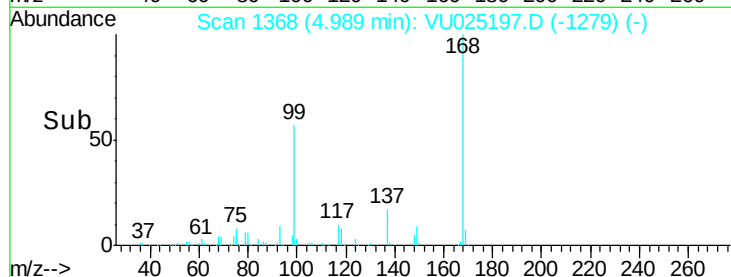
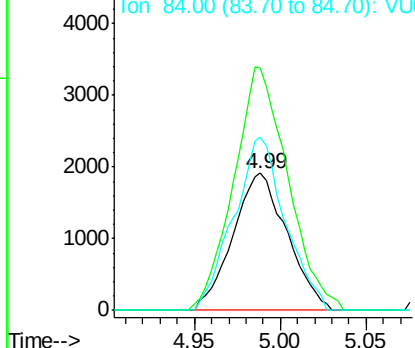
#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1368
Delta R.T. -0.01 min
Lab File: VU025197.D
Acq: 03 Jul 2018 18:26

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 56 Resp: 4198
Ion Ratio Lower Upper
56 100
69 177.0 24.8 37.2#
84 126.3 65.2 97.8#

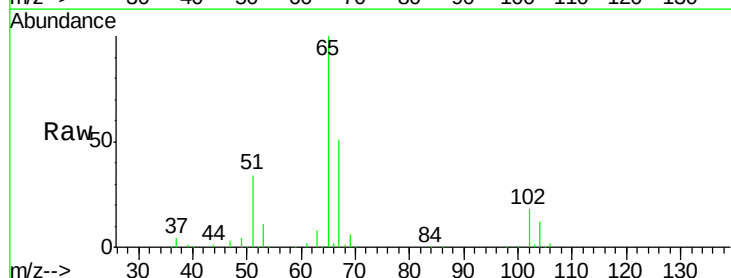


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

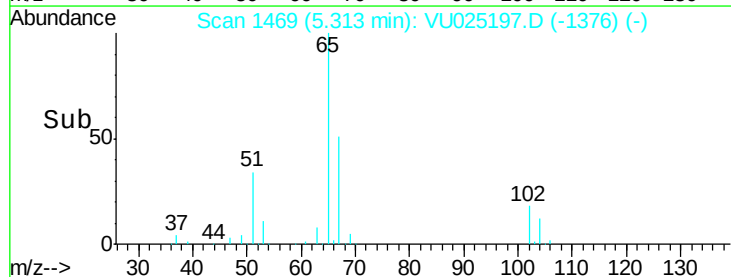
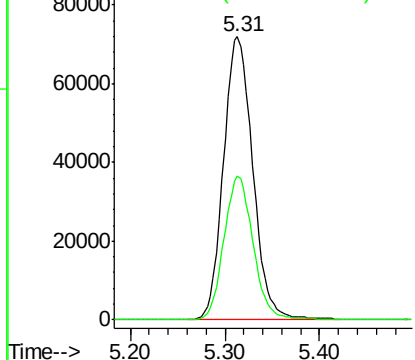


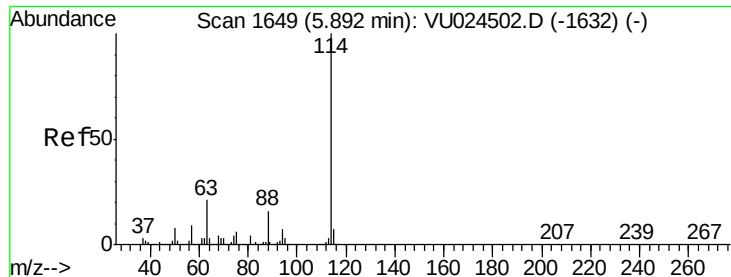
#33
1,2-Dichloroethane-d4
Concen: 47.362 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VU025197.D
Acq: 03 Jul 2018 18:26

Tgt Ion: 65 Resp: 155086
Ion Ratio Lower Upper
65 100
67 50.5 0.0 107.0



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.89 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VU025197.D

Acq: 03 Jul 2018 18:26

Instrument :

MSVOA_U

ClientSampleId :

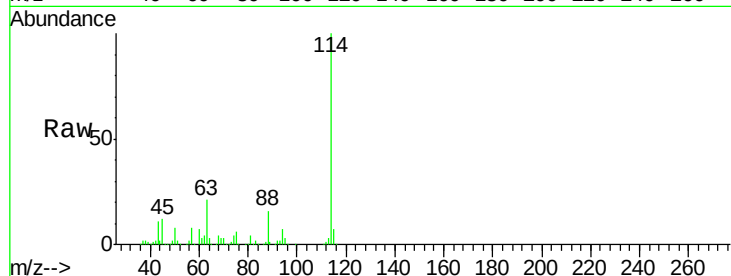
Tot Ion:114 Resp: 304610

Ion Ratio Lower Upper

114 100

63 20.8 0.0 45.4

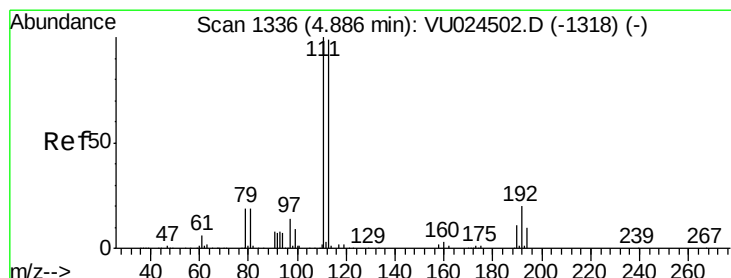
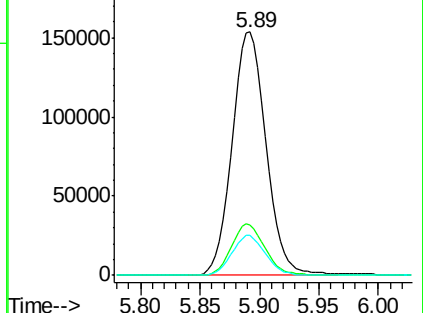
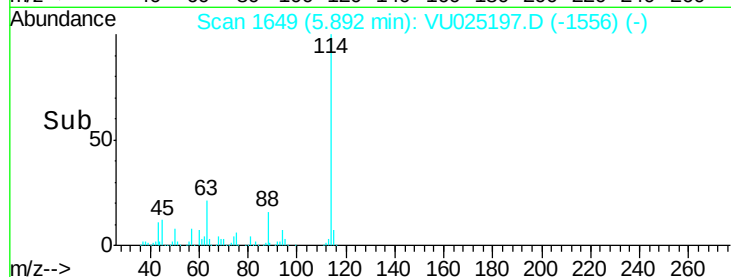
88 16.3 0.0 31.0



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: 47.126 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU025197.D

Acq: 03 Jul 2018 18:26

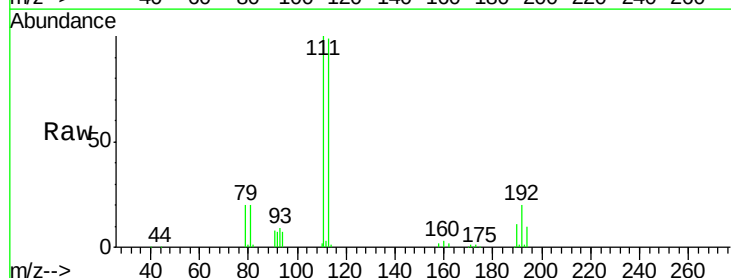
Tgt Ion:113 Resp: 119137

Ion Ratio Lower Upper

113 100

111 102.4 82.2 123.4

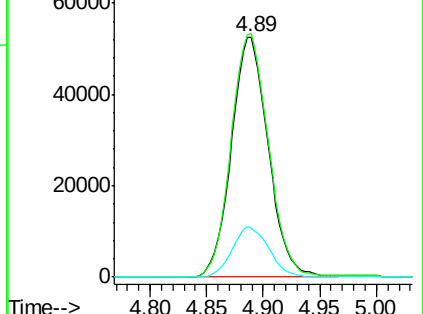
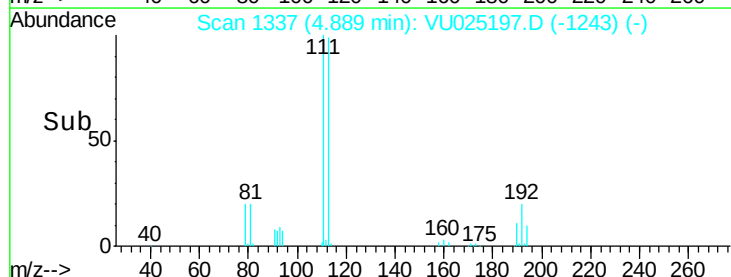
192 20.9 16.2 24.4

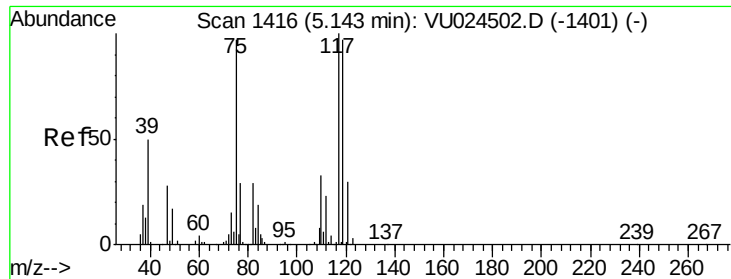


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

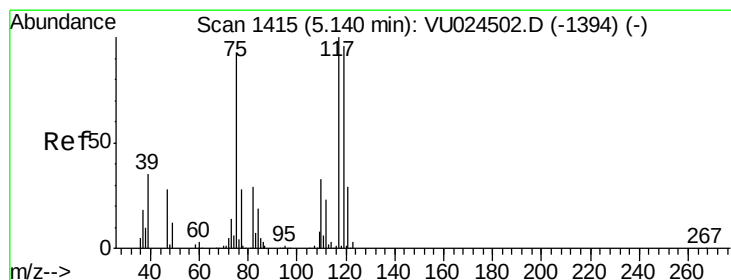
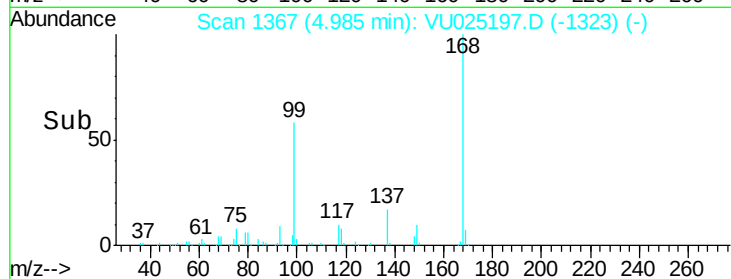
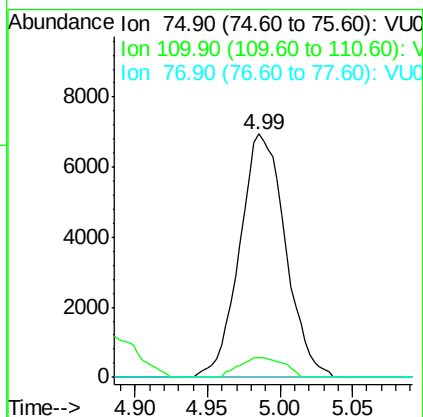
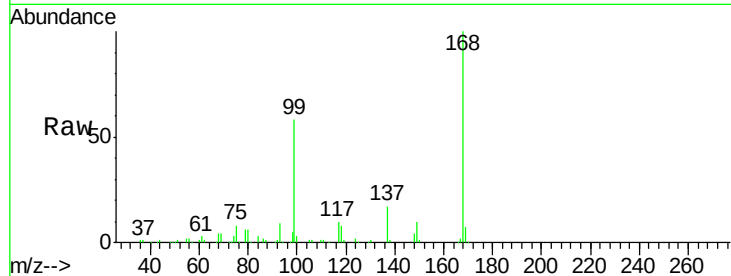




#36
 1,1-Dichloropropene
 Concen: 4.259 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.16 min
 Lab File: VU025197.D
 Acq: 03 Jul 2018 18:26

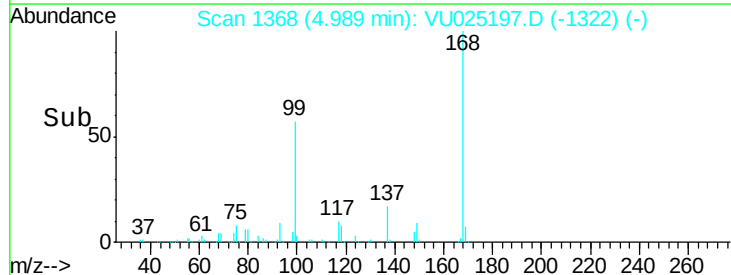
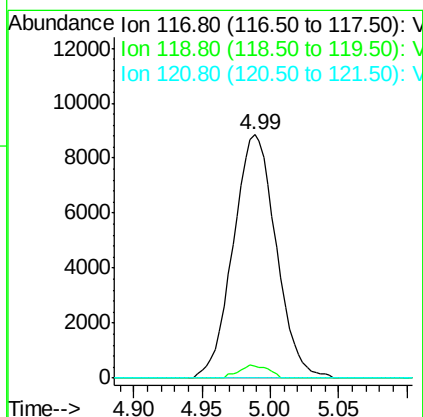
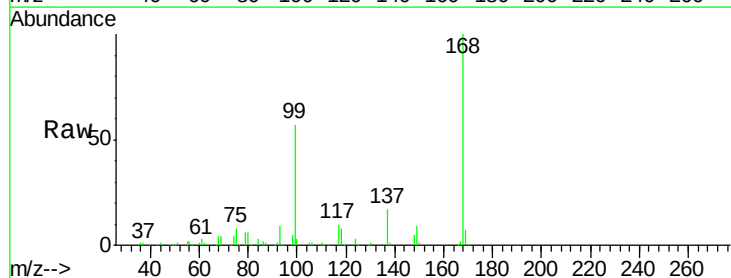
Instrument :
 MSVOA_U
 ClientSampled :

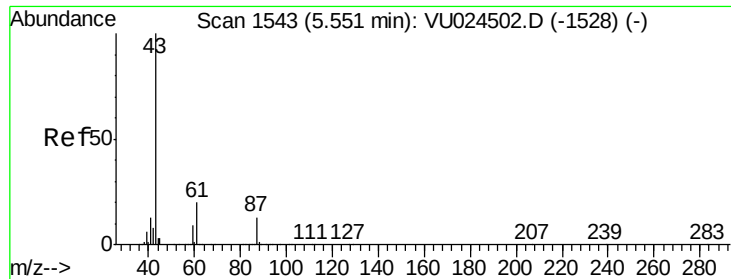
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.8	17.0	50.9#
77	0.0	24.2	36.4#



#38
 Carbon Tetrachloride
 Concen: 4.911 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU025197.D
 Acq: 03 Jul 2018 18:26

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.8	76.1	114.1#
121	0.0	23.7	35.5#





#43

Isopropyl Acetate

Concen: 16.079 ug/l

RT: 5.82 min Scan# 1626

Delta R.T. 0.27 min

Lab File: VU025197.D

Acq: 03 Jul 2018 18:26

Instrument :

MSVOA_U

ClientSampleId :

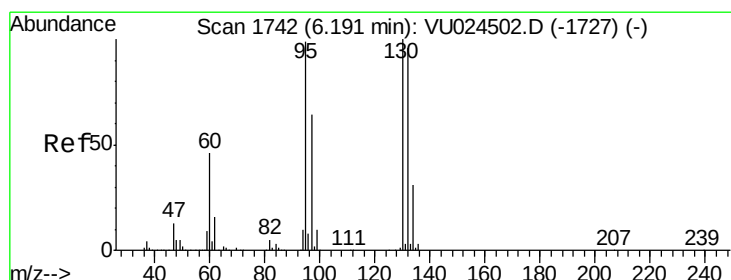
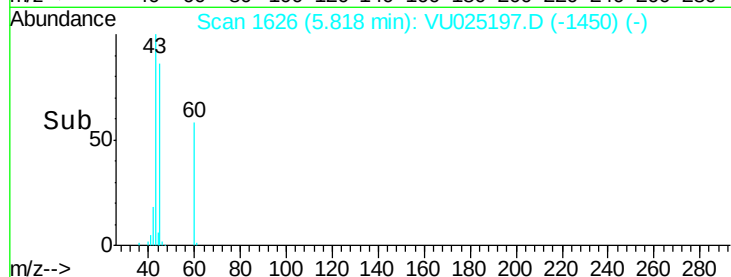
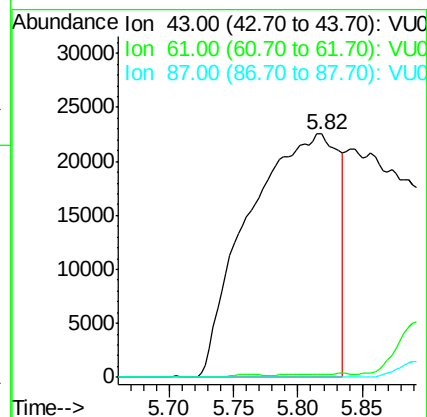
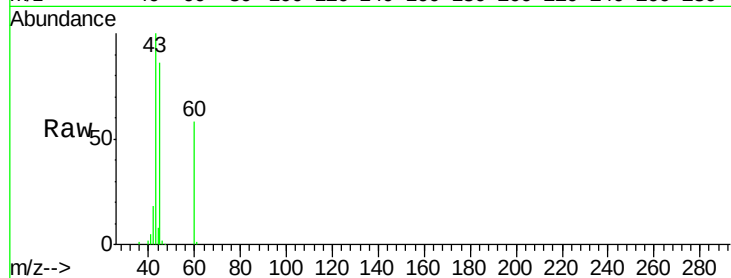
Tot Ion: 43 Resp: 108433

Ion Ratio Lower Upper

43 100

61 0.1 15.4 23.0#

87 0.0 10.0 15.0#



#44

Trichloroethene

Concen: 0.212 ug/l

RT: 6.19 min Scan# 1742

Delta R.T. -0.00 min

Lab File: VU025197.D

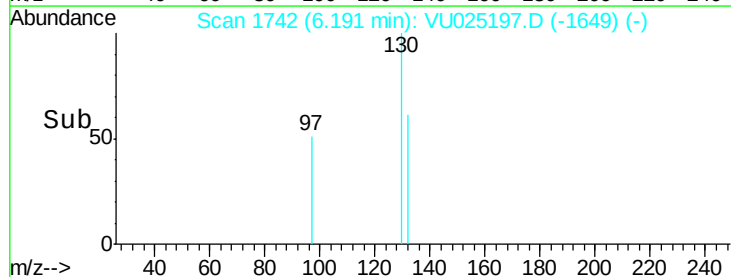
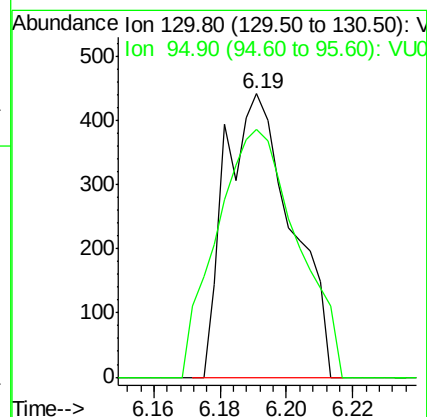
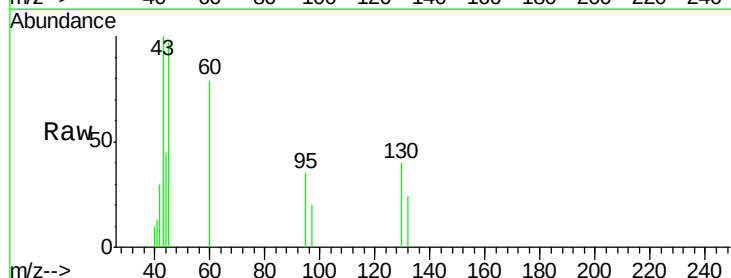
Acq: 03 Jul 2018 18:26

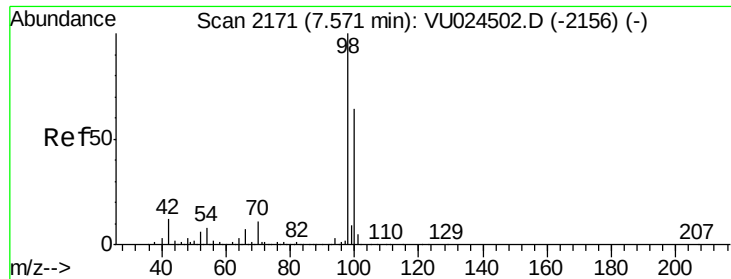
Tgt Ion: 130 Resp: 615

Ion Ratio Lower Upper

130 100

95 87.3 0.0 202.4

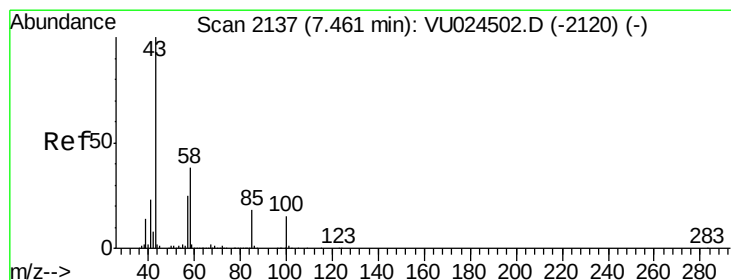
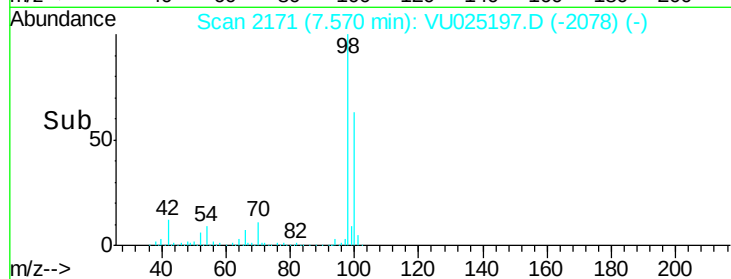
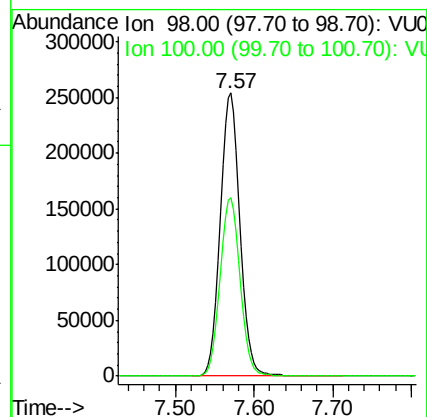
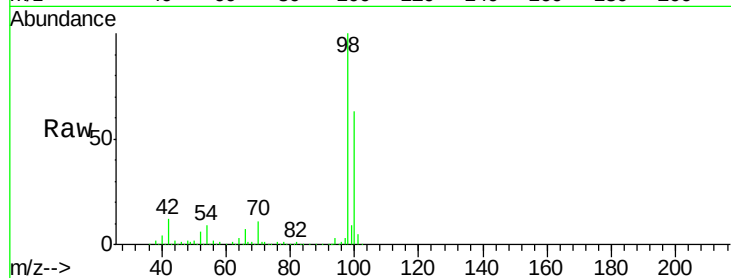




#50
Toluene-d8
Concen: 47.508 ug/l
RT: 7.57 min Scan# 2171
Delta R.T. -0.00 min
Lab File: VU025197.D
Acq: 03 Jul 2018 18:26

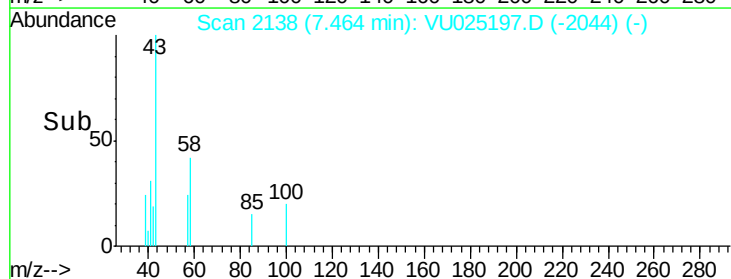
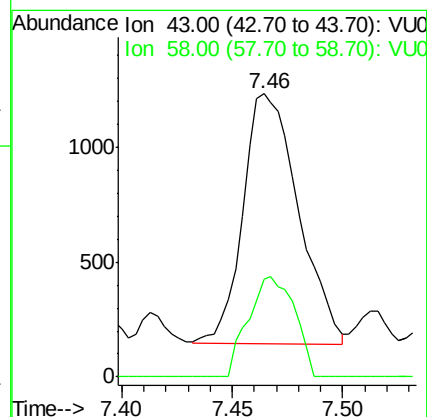
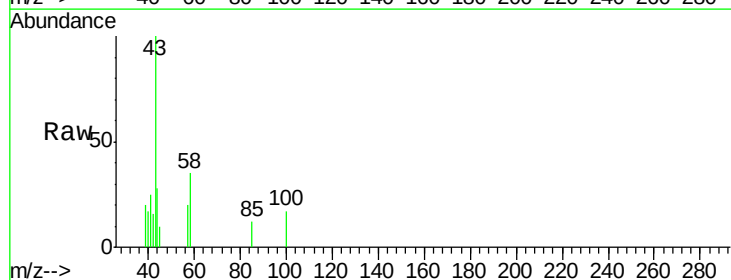
Instrument :
MSVOA_U
ClientSampled :

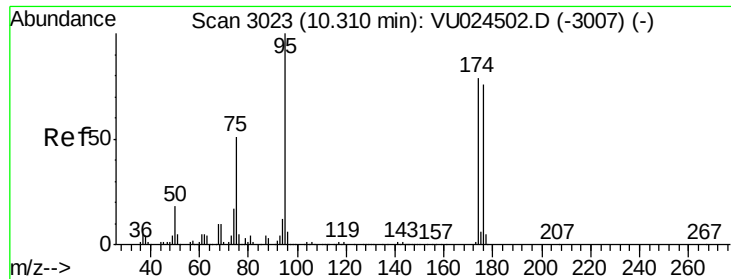
Tot Ion: 98 Resp: 438083
Ion Ratio Lower Upper
98 100
100 64.0 51.1 76.7



#51
4-Methyl-2-Pentanone
Concen: 0.449 ug/l
RT: 7.46 min Scan# 2138
Delta R.T. 0.00 min
Lab File: VU025197.D
Acq: 03 Jul 2018 18:26

Tgt Ion: 43 Resp: 1901
Ion Ratio Lower Upper
43 100
58 33.4 30.0 45.0

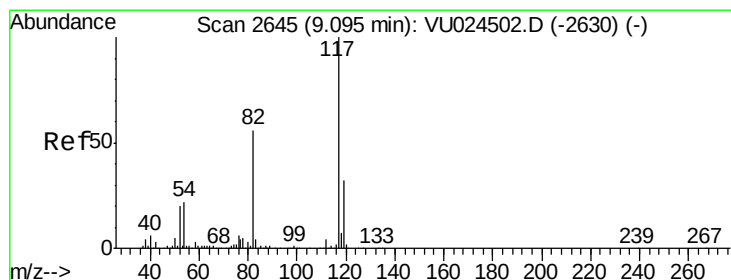
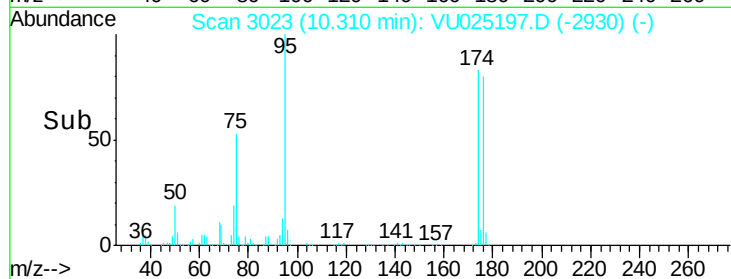
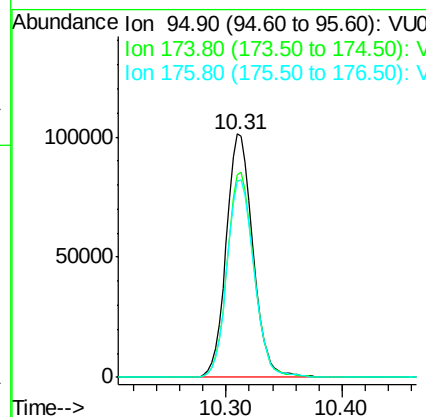
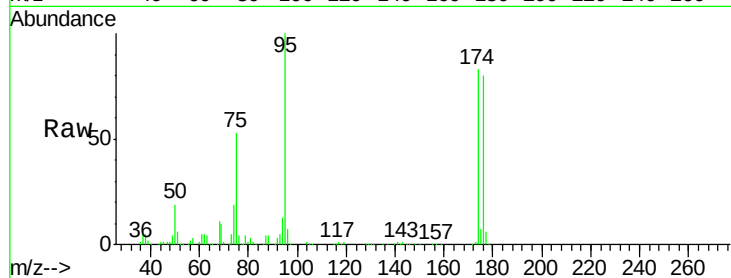




#62
4-Bromofluorobenzene
Concen: 43.923 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. -0.00 min
Lab File: VU025197.D
Acq: 03 Jul 2018 18:26

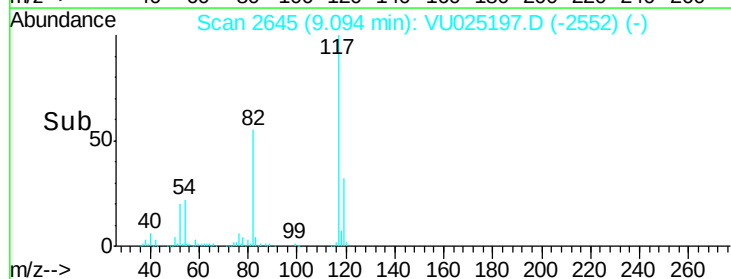
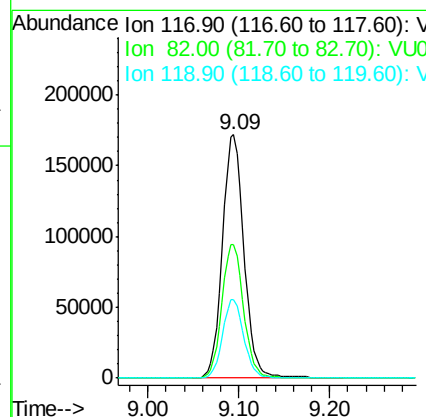
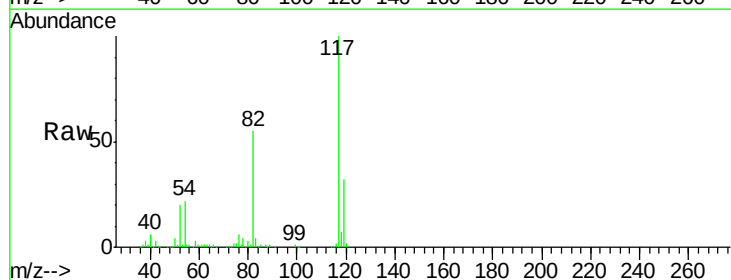
Instrument :
MSVOA_U
ClientSampleId :

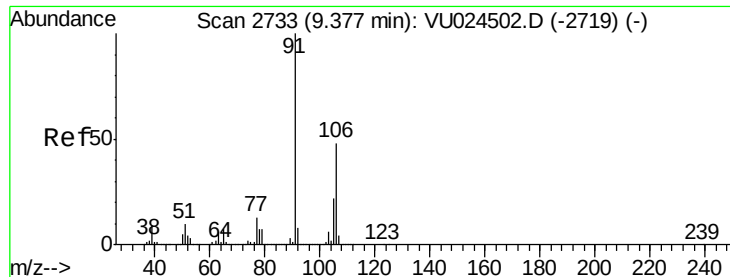
Tot Ion	95	Resp	160809
Ion Ratio	Lower	Upper	
95	100		
174	84.3	0.0	165.8
176	82.6	0.0	159.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. -0.00 min
Lab File: VU025197.D
Acq: 03 Jul 2018 18:26

Tgt Ion	117	Resp	283683
Ion Ratio	Lower	Upper	
117	100		
82	55.0	44.3	66.5
119	32.3	25.4	38.2

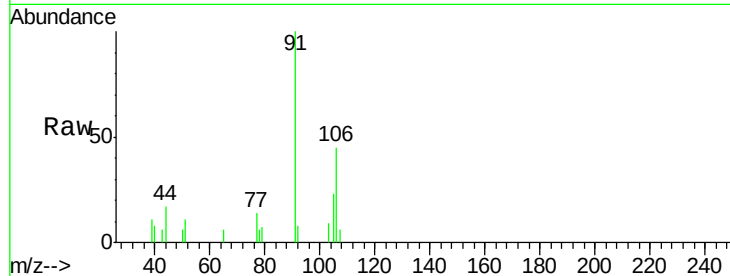




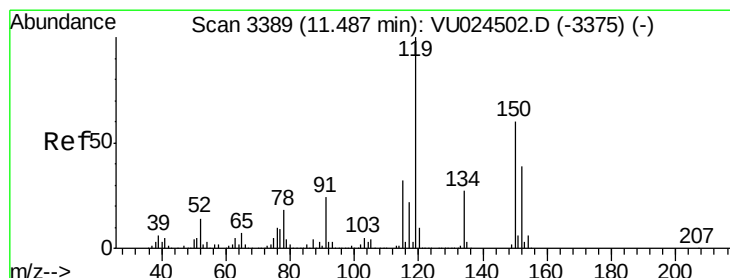
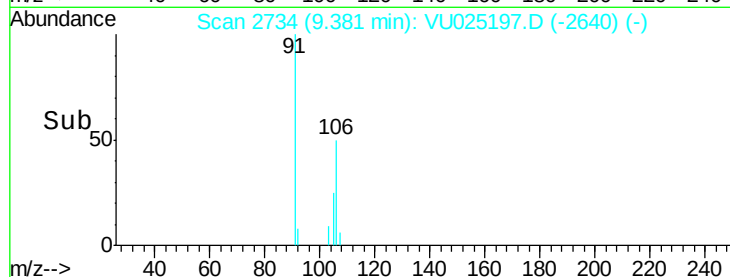
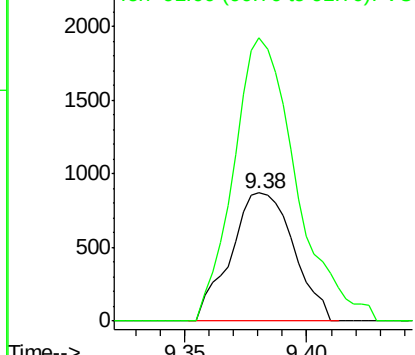
#68
m/p-Xylenes
Concen: 0.318 ug/l
RT: 9.38 min Scan# 2734
Delta R.T. 0.00 min
Lab File: VU025197.D
Acq: 03 Jul 2018 18:26

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 1553
Ion Ratio Lower Upper
106 100
91 220.5 166.5 249.7

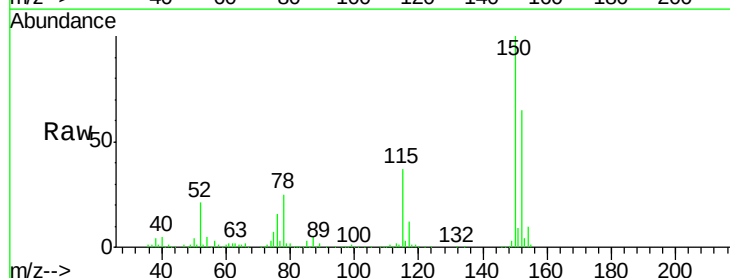


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

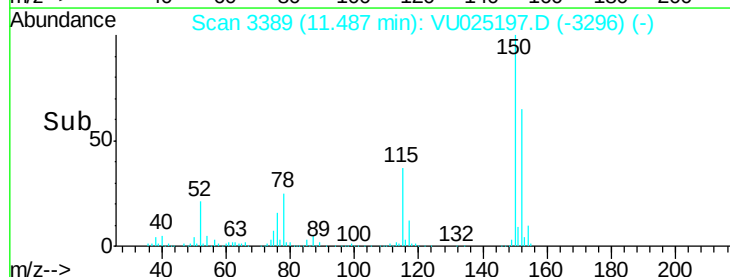
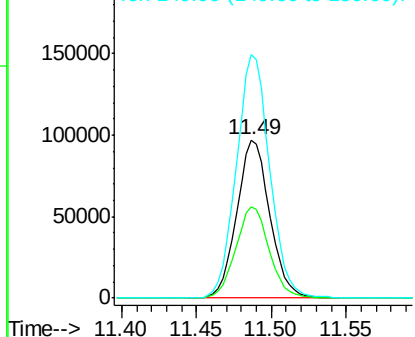


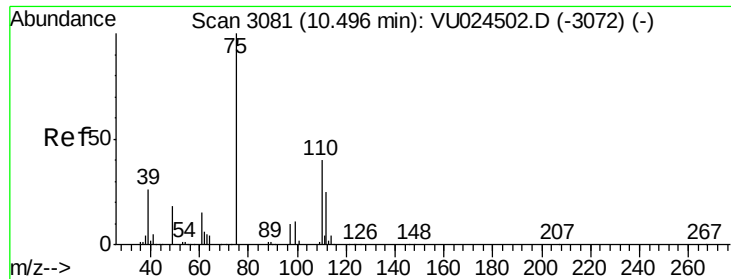
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. -0.00 min
Lab File: VU025197.D
Acq: 03 Jul 2018 18:26

Tgt Ion:152 Resp: 149284
Ion Ratio Lower Upper
152 100
115 58.3 43.0 129.0
150 155.8 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: 25.517 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025197.D

Acq: 03 Jul 2018 18:26

Instrument :

MSVOA_U

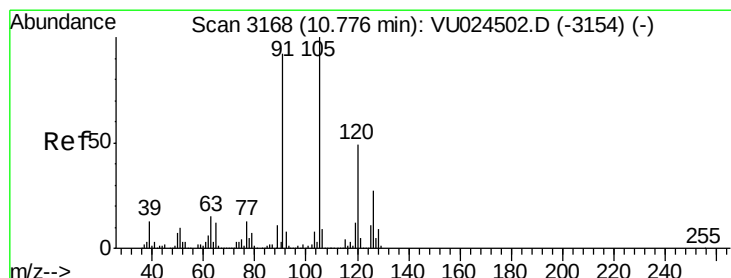
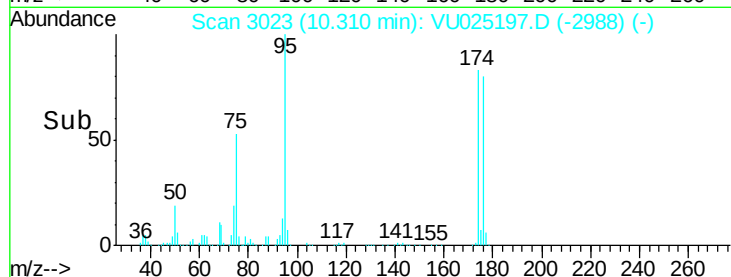
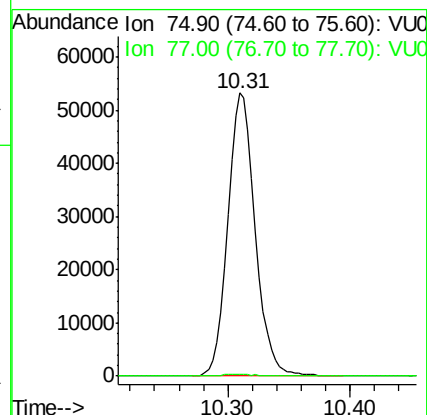
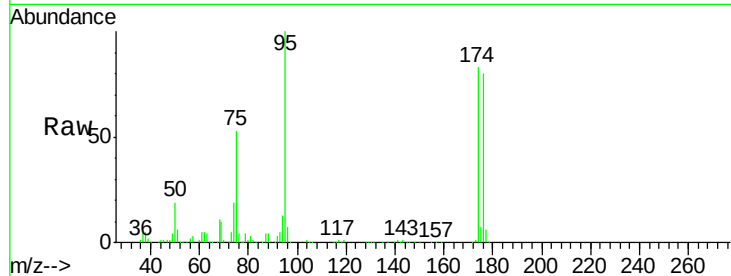
ClientSampleId :

Tot Ion: 75 Resp: 83867

Ion Ratio Lower Upper

75 100

77 0.8 20.9 62.7#



#80

1,3,5-Trimethylbenzene

Concen: 0.236 ug/l

RT: 10.78 min Scan# 3169

Delta R.T. 0.00 min

Lab File: VU025197.D

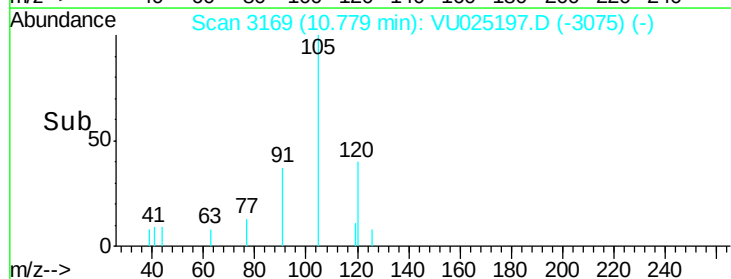
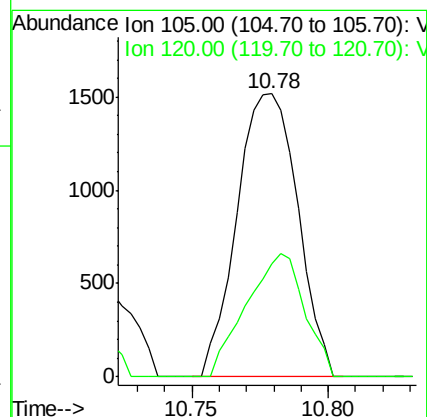
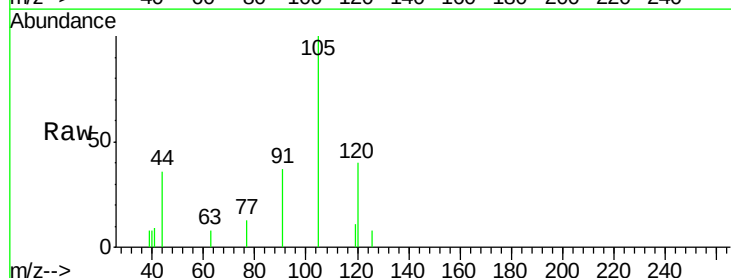
Acq: 03 Jul 2018 18:26

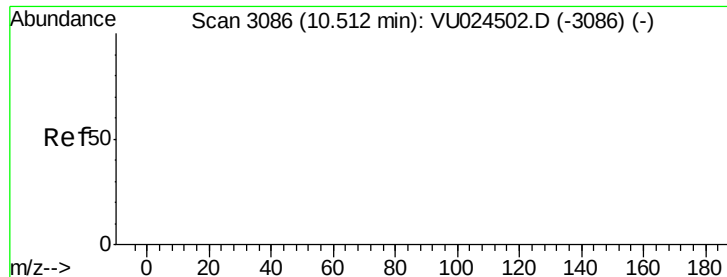
Tgt Ion: 105 Resp: 2347

Ion Ratio Lower Upper

105 100

120 41.6 24.1 72.2

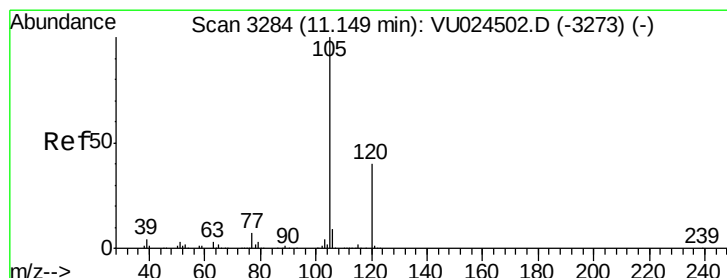
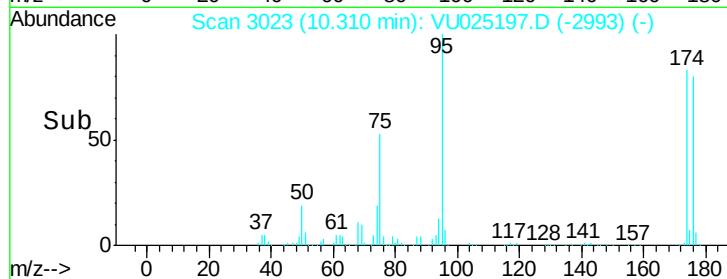
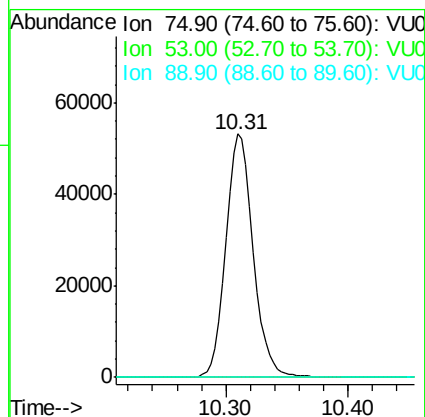
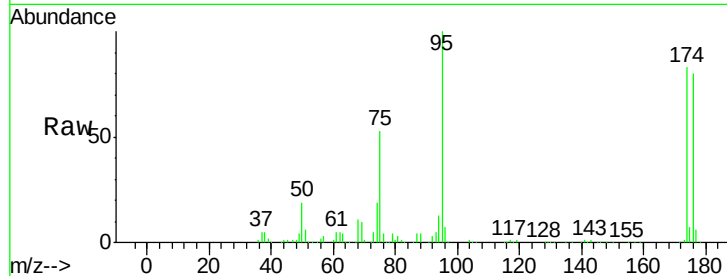




#81
trans-1,4-Dichloro-2-butene
Concen: 59.057 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. -0.20 min
Lab File: VU025197.D
Acq: 03 Jul 2018 18:26

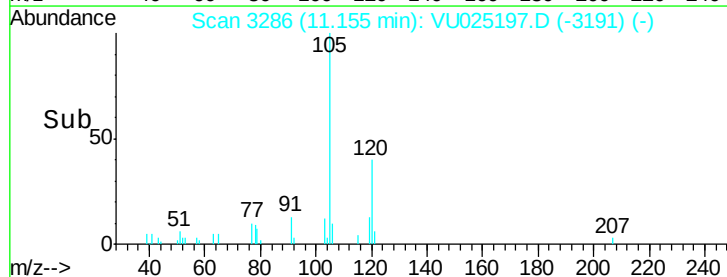
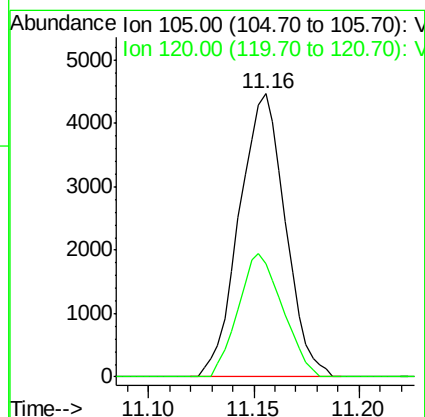
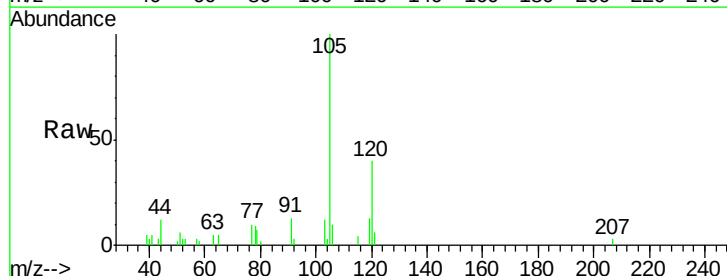
Instrument :
MSVOA_U
ClientSampleId :

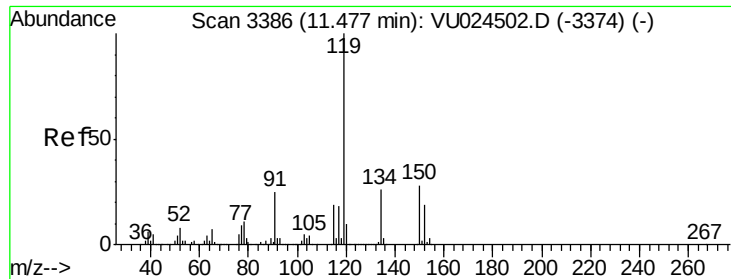
Tot Ion: 75 Resp: 83867
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0#
89 0.0 0.0 0.0#



#84
1,2,4-Trimethylbenzene
Concen: 0.671 ug/l
RT: 11.16 min Scan# 3286
Delta R.T. 0.01 min
Lab File: VU025197.D
Acq: 03 Jul 2018 18:26

Tgt Ion:105 Resp: 6793
Ion Ratio Lower Upper
105 100
120 41.9 22.6 67.8





#86

p-Isopropyltoluene

Concen: 0.239 ug/l

RT: 11.48 min Scan# 3387

Delta R.T. 0.00 min

Lab File: VU025197.D

Acq: 03 Jul 2018 18:26

Instrument :

MSVOA_U

ClientSampleId :

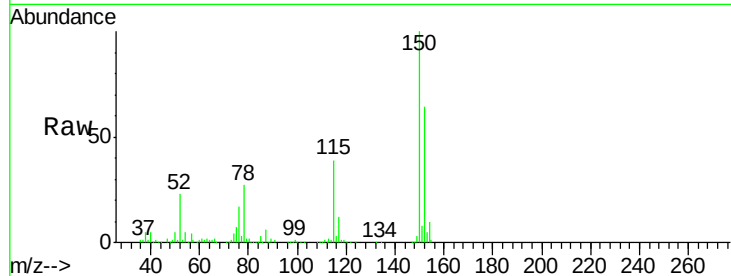
Tot Ion:119 Resp: 2563

Ion Ratio Lower Upper

119 100

134 27.6 12.9 38.6

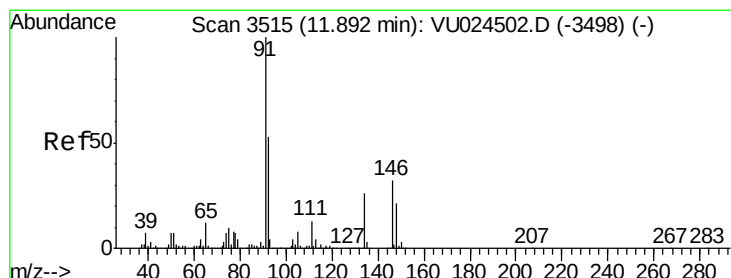
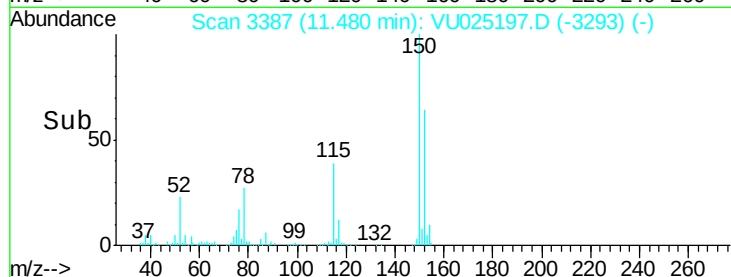
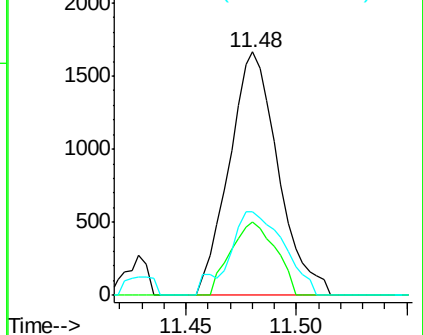
91 38.4 12.0 36.1#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#89

n-Butylbenzene

Concen: 0.250 ug/l

RT: 11.89 min Scan# 3516

Delta R.T. 0.00 min

Lab File: VU025197.D

Acq: 03 Jul 2018 18:26

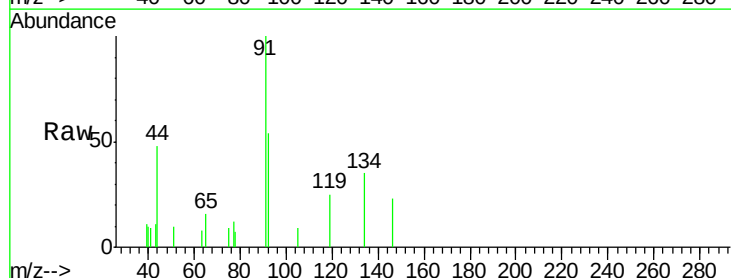
Tgt Ion: 91 Resp: 2379

Ion Ratio Lower Upper

91 100

92 50.4 25.6 76.8

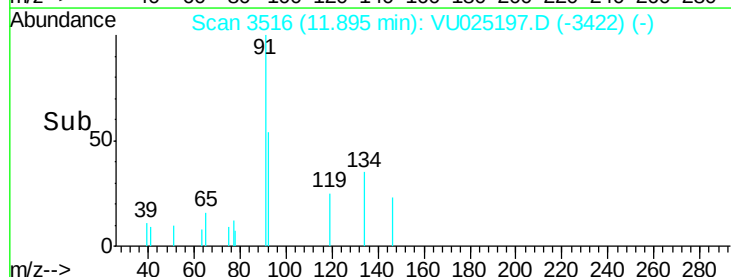
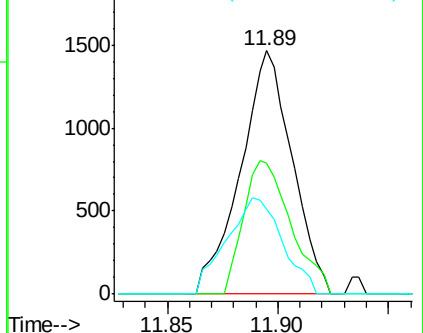
134 42.7 12.3 36.8#

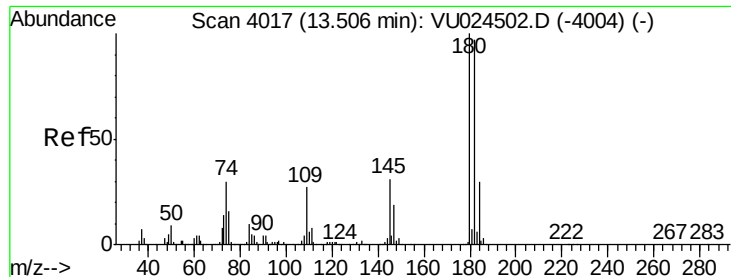


Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.00 (133.70 to 134.70): V

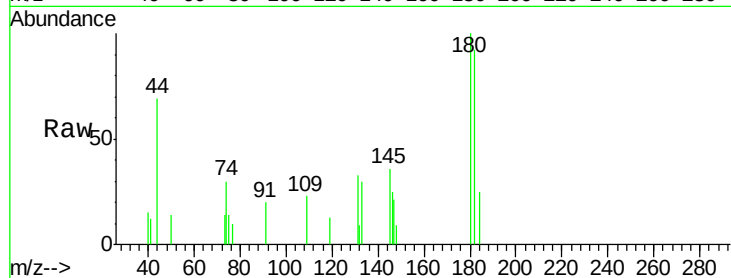




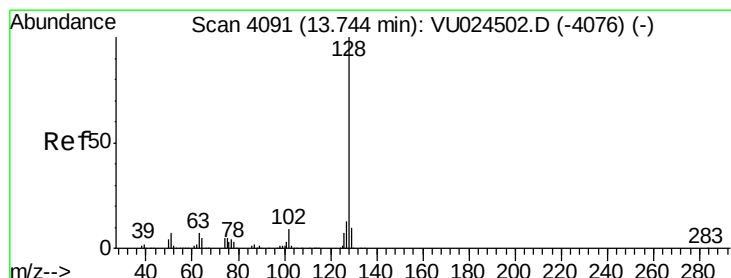
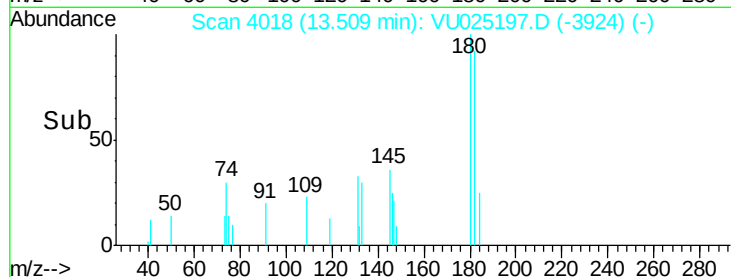
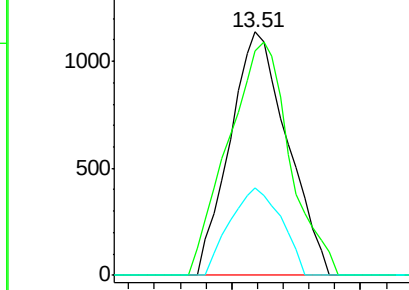
#93
 1,2,4-Trichlorobenzene
 Concen: 0.531 ug/l
 RT: 13.51 min Scan# 4018
 Delta R.T. 0.00 min
 Lab File: VU025197.D
 Acq: 03 Jul 2018 18:26

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180 Resp: 1760
 Ion Ratio Lower Upper
 180 100
 182 103.1 48.0 144.2
 145 32.2 14.7 44.1

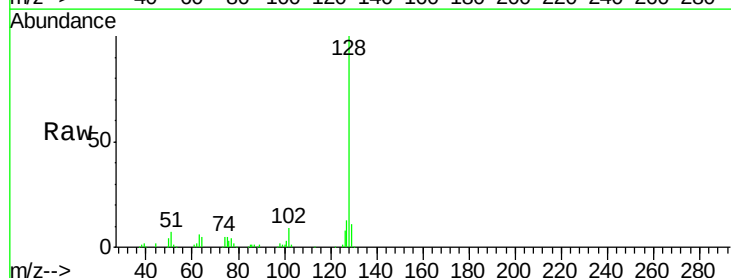


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

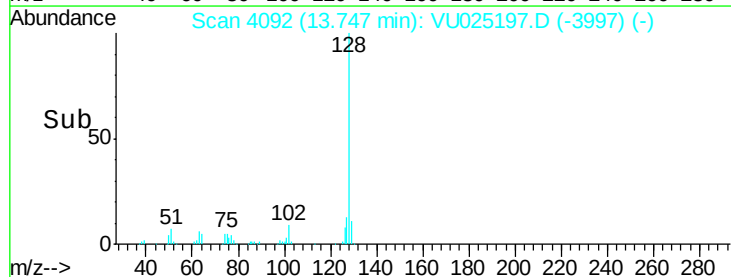
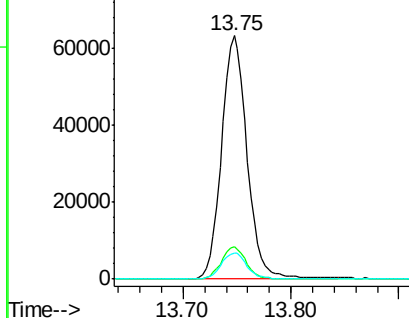


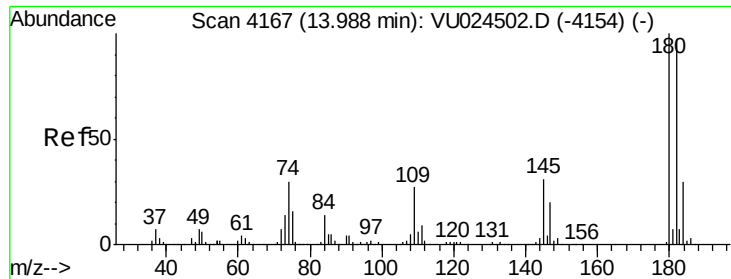
#95
 Naphthalene
 Concen: 10.071 ug/l
 RT: 13.75 min Scan# 4092
 Delta R.T. 0.00 min
 Lab File: VU025197.D
 Acq: 03 Jul 2018 18:26

Tgt Ion:128 Resp: 104513
 Ion Ratio Lower Upper
 128 100
 127 12.8 10.6 16.0
 129 10.7 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





#96

1,2,3-Trichlorobenzene

Concen: 0.692 ug/l

RT: 13.99 min Scan# 4168

Delta R.T. 0.00 min

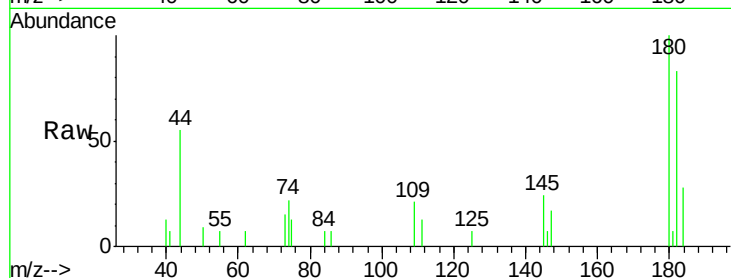
Lab File: VU025197.D

Acq: 03 Jul 2018 18:26

Instrument :

MSVOA_U

ClientSampleId :



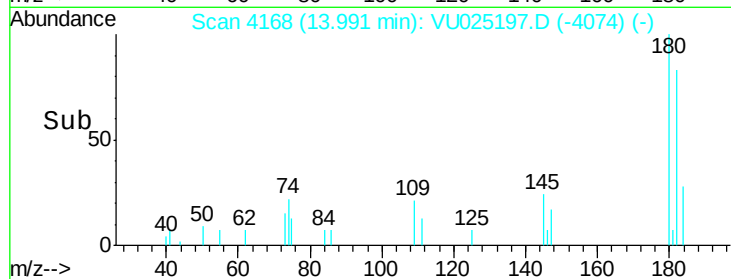
Tot Ion:180 Resp: 2286

Ion Ratio Lower Upper

180 100

182 85.6 47.9 143.7

145 37.7 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

