

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061418\
 Data File : VU024560.D
 Acq On : 14 Jun 2018 23:49
 Operator : MD/SY
 Sample : J3452-01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jun 15 01:46:26 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

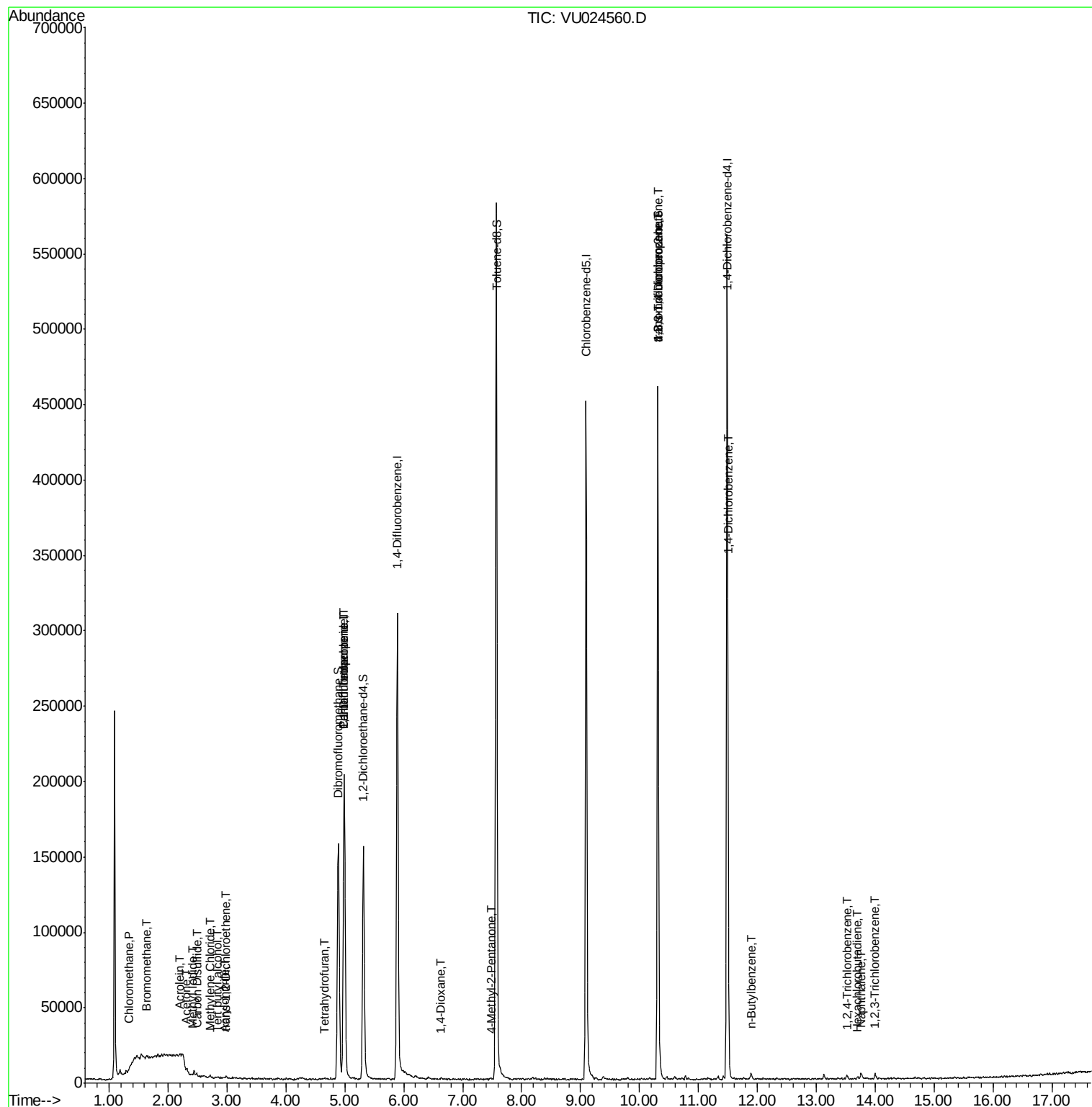
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	164972	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	271454	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	262210	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	152620	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.32	65	120743	44.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.66%	
35) Dibromofluoromethane	4.89	113	107536	47.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.46%	
50) Toluene-d8	7.57	98	400844	48.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.56%	
62) 4-Bromofluorobenzene	10.31	95	156359	47.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.84%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.33	50	667	0.316	ug/l #	42
5) Bromomethane	1.63	94	506	0.481	ug/l #	27
6) Chloroethane	1.71	64	138	Below Cal	#	1
8) Diethyl Ether	2.20	74	21	Below Cal	#	10
10) Methyl Iodide	2.42	142	135	5.358	ug/l #	40
11) Tert butyl alcohol	2.83	59	298	0.455	ug/l #	70
13) Acrolein	2.19	56	288	0.837	ug/l #	65
15) Acrylonitrile	2.95	53	343	0.269	ug/l #	54
16) Acetone	2.32	43	2327	1.608	ug/l #	60
17) Carbon Disulfide	2.48	76	1889	0.314	ug/l #	89
20) Methylene Chloride	2.72	84	614	0.270	ug/l #	55
21) trans-1,2-Dichloroethene	3.00	96	468	0.226	ug/l #	68
29) Tetrahydrofuran	4.66	42	806	0.670	ug/l #	38
31) Cyclohexane	4.99	56	2927	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	11166	3.501	ug/l #	52
38) Carbon Tetrachloride	4.99	117	15400	4.390	ug/l #	16
49) 1,4-Dioxane	6.64	88	60	1.048	ug/l #	1
51) 4-Methyl-2-Pentanone	7.47	43	901	0.239	ug/l #	65
76) 1,2,3-Trichloropropane	10.31	75	75440	22.451	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	75440	51.962	ug/l #	100
88) 1,4-Dichlorobenzene	11.51	146	1367	0.248	ug/l #	64
89) n-Butylbenzene	11.90	91	2180	0.224	ug/l	95
93) 1,2,4-Trichlorobenzene	13.52	180	926	0.273	ug/l #	72
94) Hexachlorobutadiene	13.70	225	442	0.232	ug/l	82
95) Naphthalene	13.76	128	5481	1.161	ug/l #	96
96) 1,2,3-Trichlorobenzene	13.99	180	1253	0.371	ug/l	90

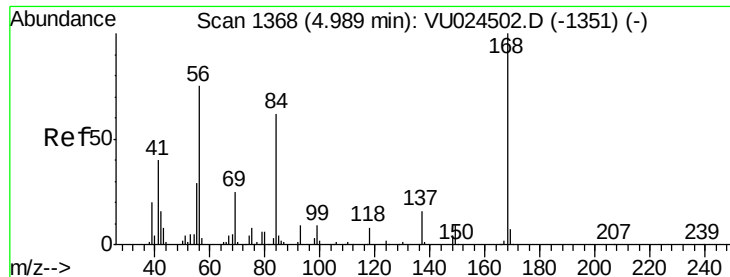
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU024560.D

Acq: 14 Jun 2018 23:49

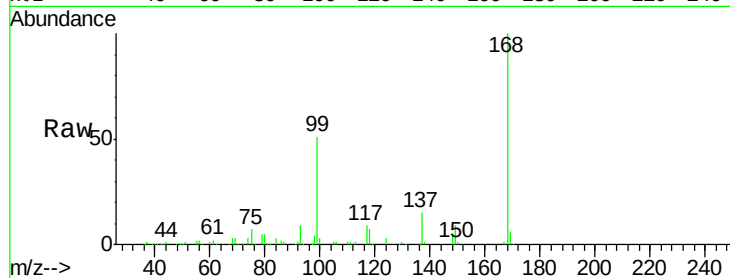
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 164972

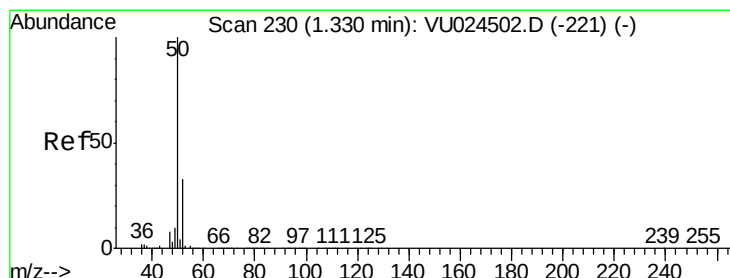
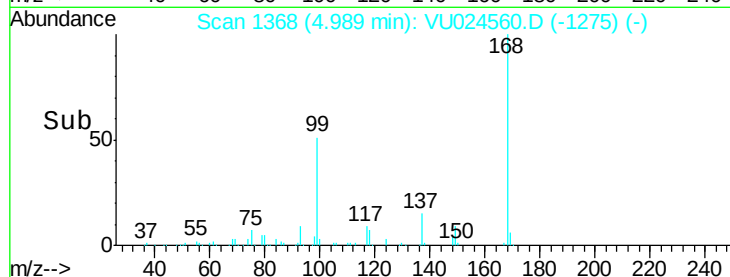
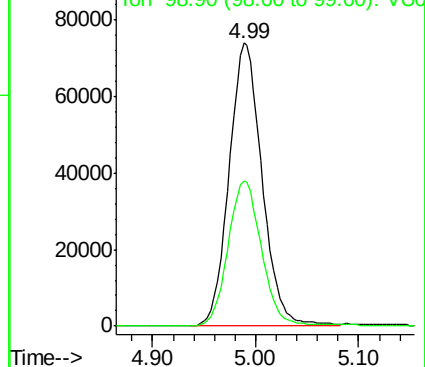
Ion Ratio Lower Upper

168 100

99 51.4 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024560.D (-1275) (-)



#3

Chloromethane

Concen: 0.316 ug/l

RT: 1.33 min Scan# 231

Delta R.T. 0.00 min

Lab File: VU024560.D

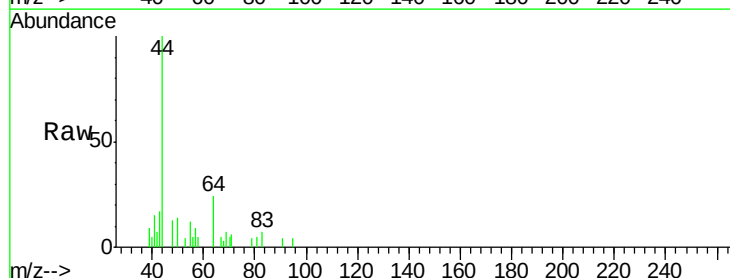
Acq: 14 Jun 2018 23:49

Tgt Ion: 50 Resp: 667

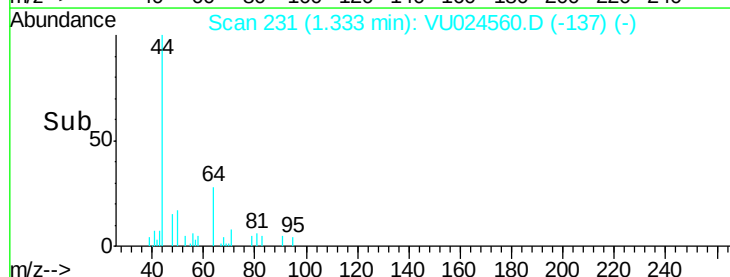
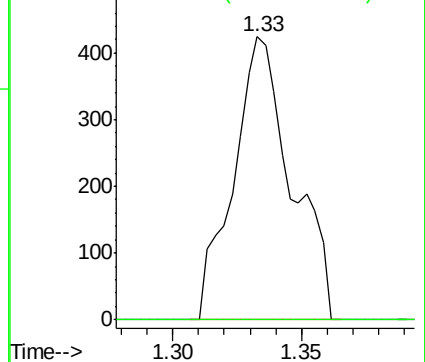
Ion Ratio Lower Upper

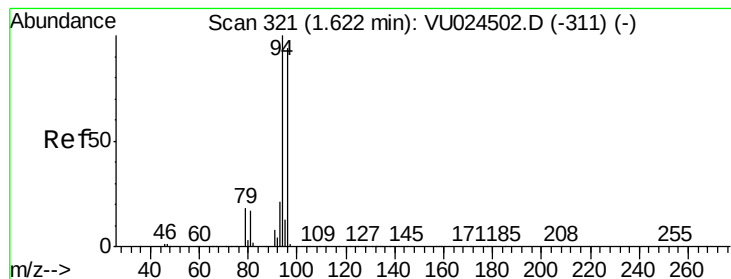
50 100

52 0.0 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VU024560.D (-137) (-)





#5

Bromomethane

Concen: 0.481 ug/l

RT: 1.63 min Scan# 325

Delta R.T. 0.01 min

Lab File: VU024560.D

Acq: 14 Jun 2018 23:49

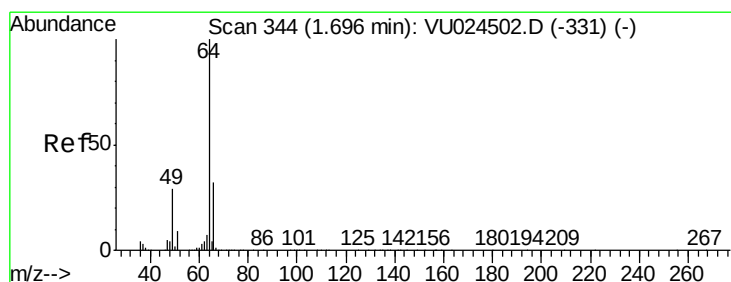
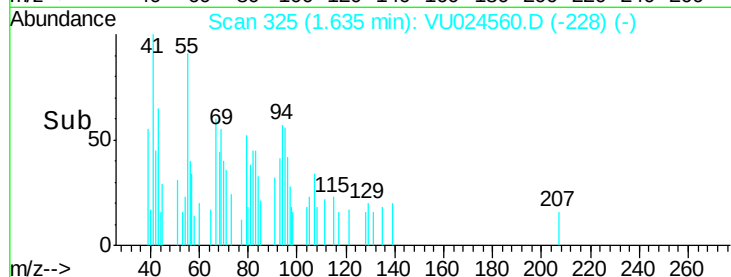
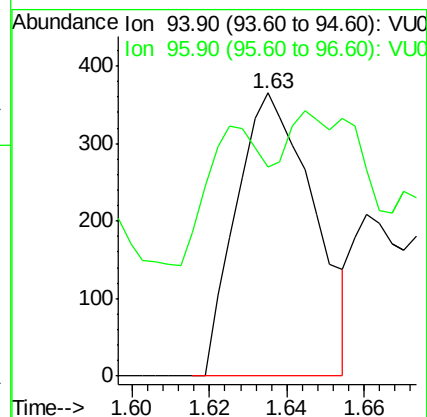
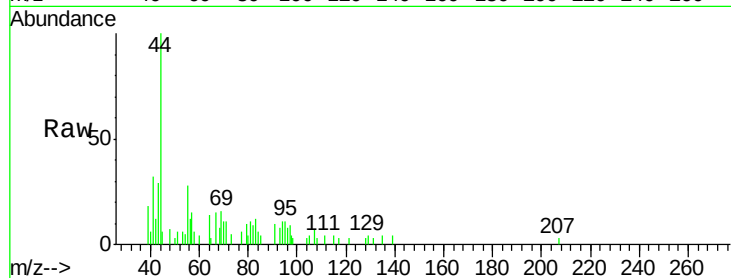
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 94 Resp: 506

Ion Ratio Lower Upper

94 100

96 23.3 74.5 111.7#



#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 347

Delta R.T. 0.01 min

Lab File: VU024560.D

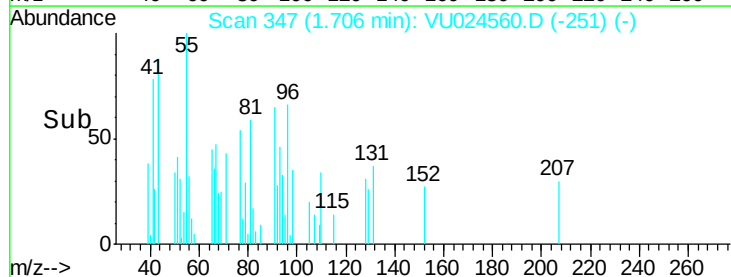
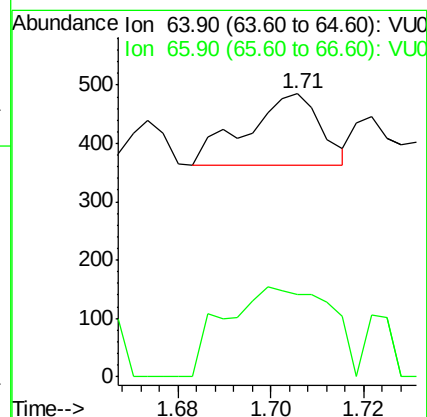
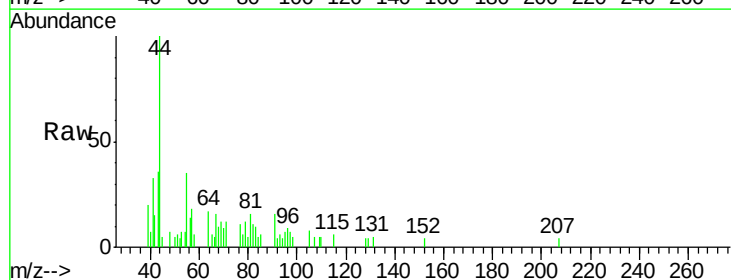
Acq: 14 Jun 2018 23:49

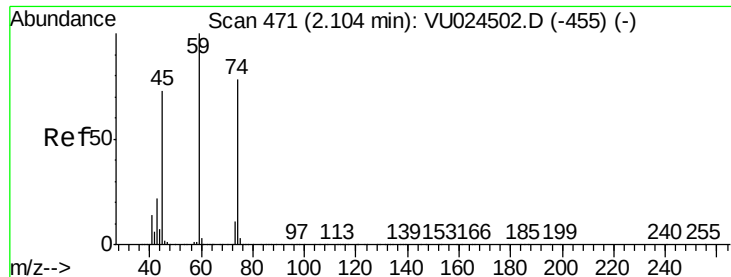
Tgt Ion: 64 Resp: 138

Ion Ratio Lower Upper

64 100

66 113.8 25.5 38.3#

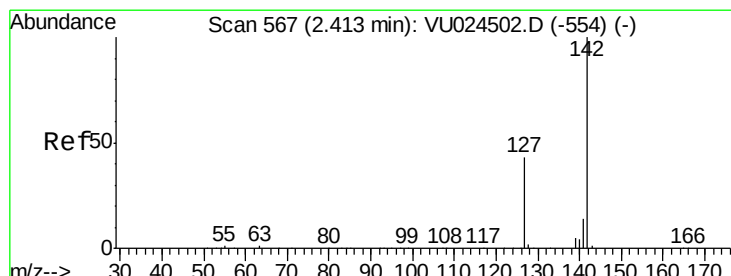
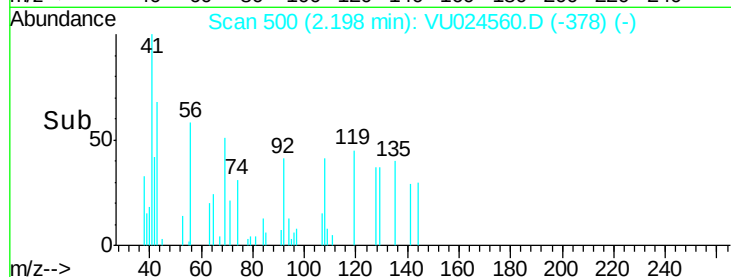
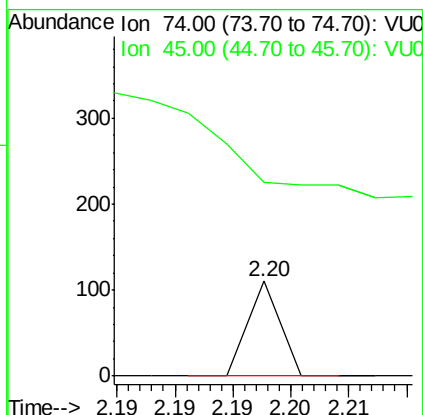
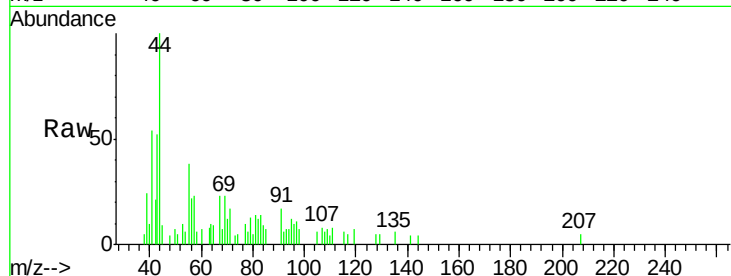




#8
Diethyl Ether
Concen: Below Cal
RT: 2.20 min Scan# 500
Delta R.T. 0.09 min
Lab File: VU024560.D
Acq: 14 Jun 2018 23:49

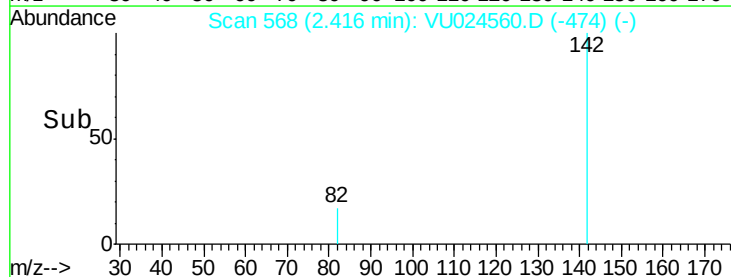
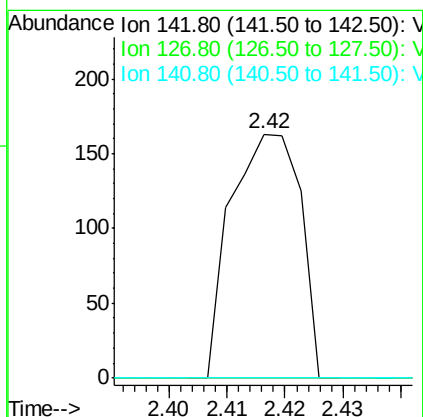
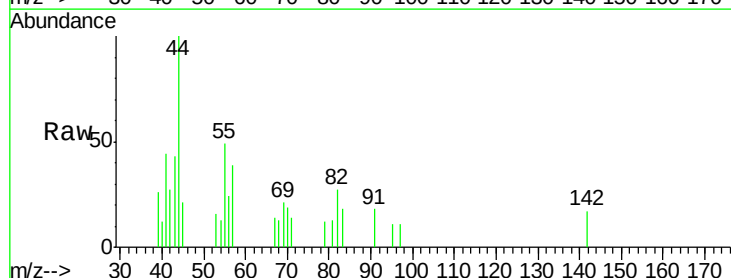
Instrument :
MSVOA_U
ClientSampleId :

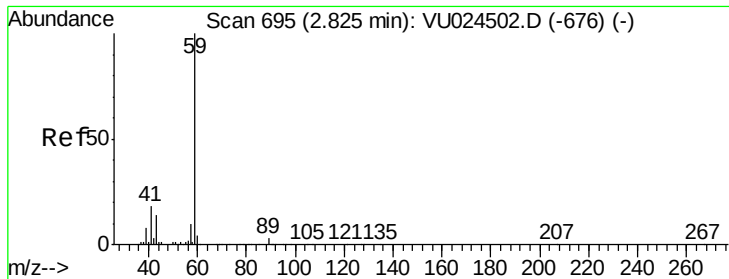
Tot Ion: 74 Resp: 21
Ion Ratio Lower Upper
74 100
45 204.8 55.0 165.0#



#10
Methyl Iodide
Concen: 5.358 ug/l
RT: 2.42 min Scan# 568
Delta R.T. 0.00 min
Lab File: VU024560.D
Acq: 14 Jun 2018 23:49

Tgt Ion: 142 Resp: 135
Ion Ratio Lower Upper
142 100
127 0.0 35.6 53.4#
141 0.0 11.7 17.5#

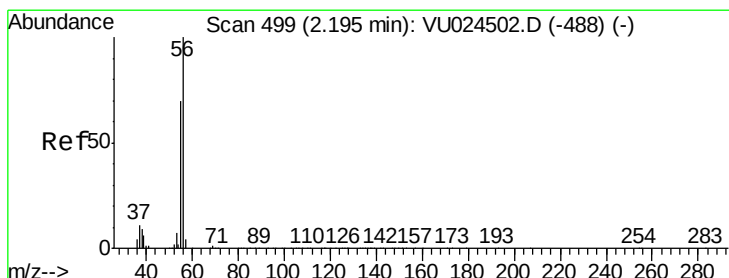
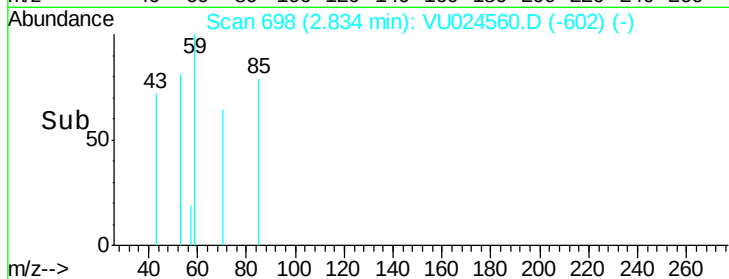
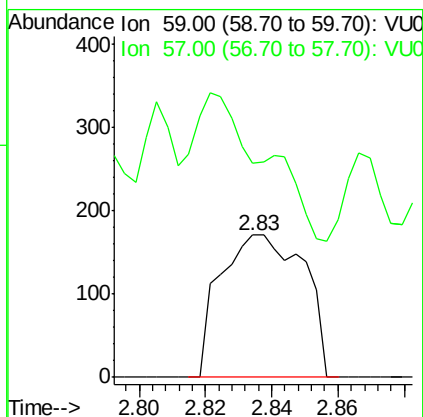
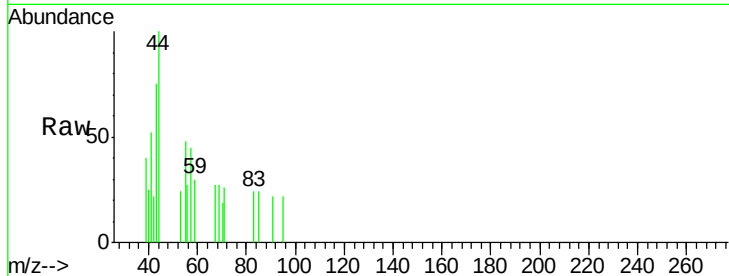




#11
Tert butyl alcohol
Concen: 0.455 ug/l
RT: 2.83 min Scan# 698
Delta R.T. 0.01 min
Lab File: VU024560.D
Acq: 14 Jun 2018 23:49

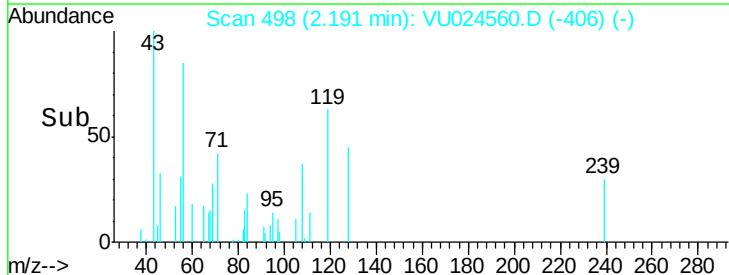
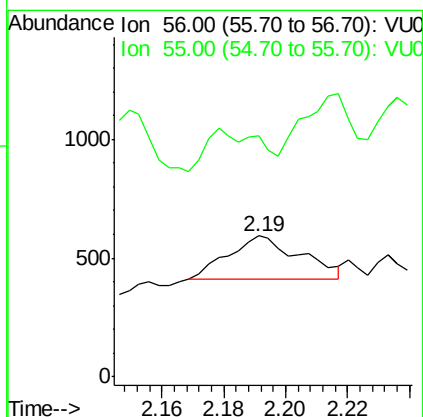
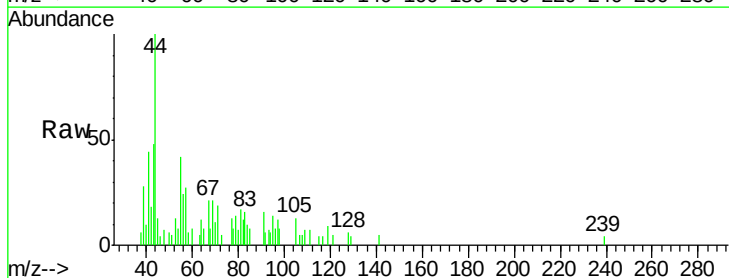
Instrument :
MSVOA_U
ClientSampleId :

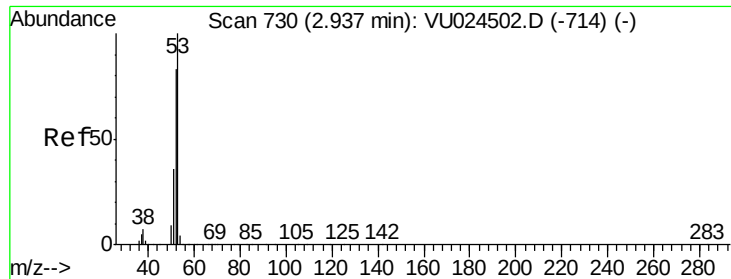
Tot Ion: 59 Resp: 298
Ion Ratio Lower Upper
59 100
57 21.8 8.5 12.7#



#13
Acrolein
Concen: 0.837 ug/l
RT: 2.19 min Scan# 498
Delta R.T. -0.00 min
Lab File: VU024560.D
Acq: 14 Jun 2018 23:49

Tgt Ion: 56 Resp: 288
Ion Ratio Lower Upper
56 100
55 43.4 58.4 87.6#





#15

Acrylonitrile

Concen: 0.269 ug/l

RT: 2.95 min Scan# 735

Delta R.T. 0.02 min

Lab File: VU024560.D

Acq: 14 Jun 2018 23:49

Instrument :
MSVOA_U
ClientSampled :

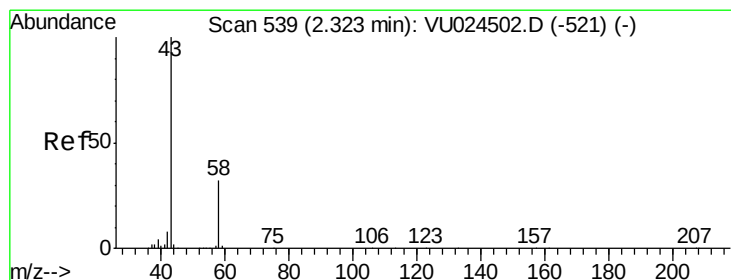
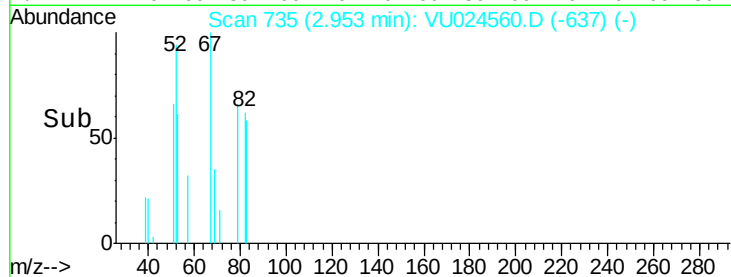
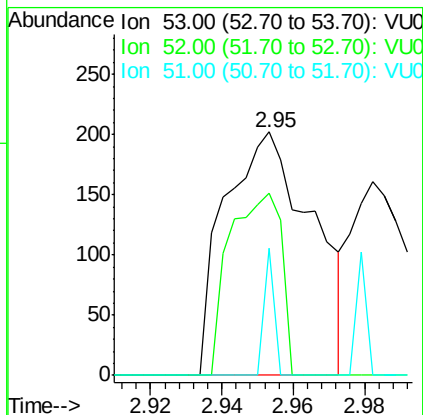
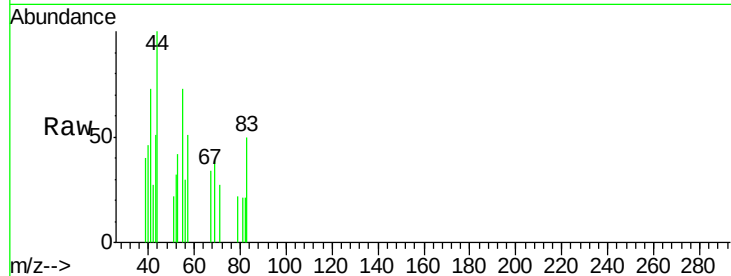
Tot Ion: 53 Resp: 343

Ion Ratio Lower Upper

53 100

52 44.0 67.1 100.7#

51 5.8 28.4 42.6#



#16

Acetone

Concen: 1.608 ug/l

RT: 2.32 min Scan# 539

Delta R.T. -0.00 min

Lab File: VU024560.D

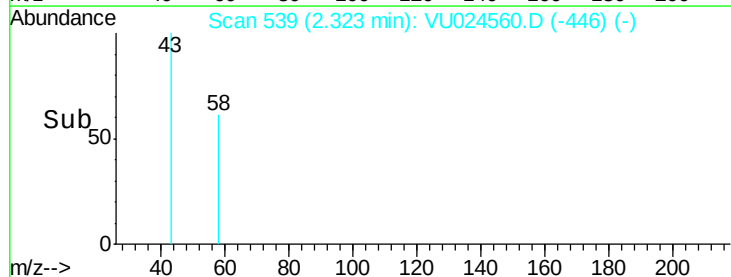
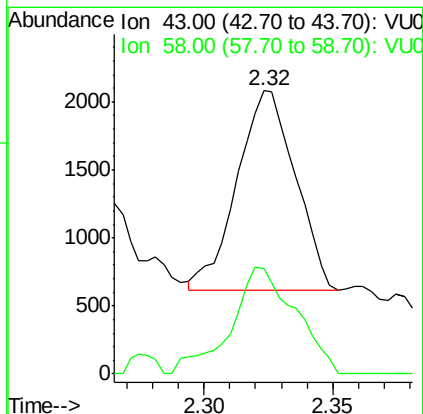
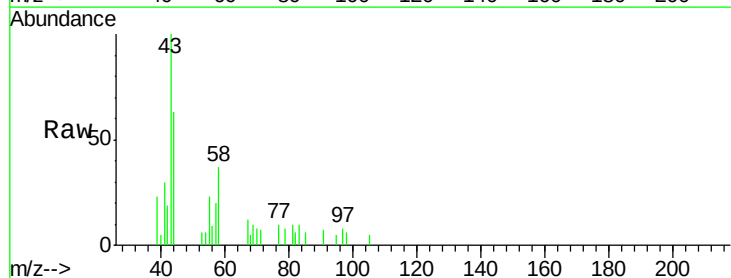
Acq: 14 Jun 2018 23:49

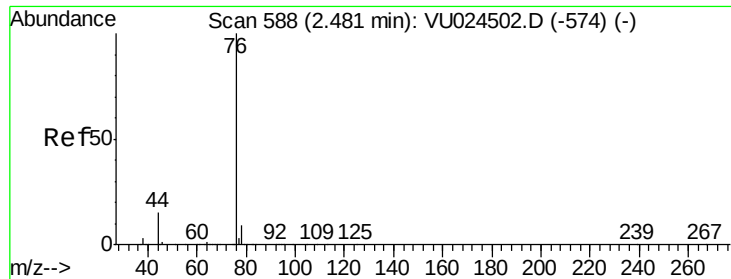
Tgt Ion: 43 Resp: 2327

Ion Ratio Lower Upper

43 100

58 52.6 24.4 36.6#





#17

Carbon Disulfide

Concen: 0.314 ug/l

RT: 2.48 min Scan# 589

Delta R.T. 0.00 min

Lab File: VU024560.D

Acq: 14 Jun 2018 23:49

Instrument :

MSVOA_U

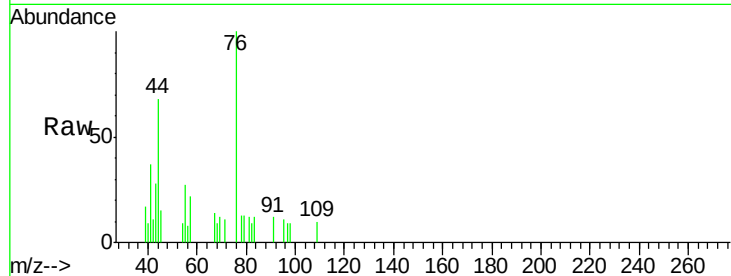
ClientSampleId :

Tot Ion: 76 Resp: 1889

Ion Ratio Lower Upper

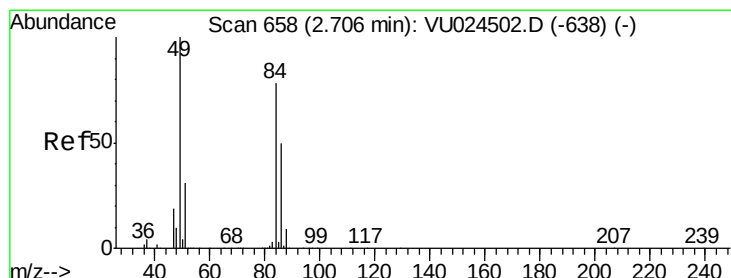
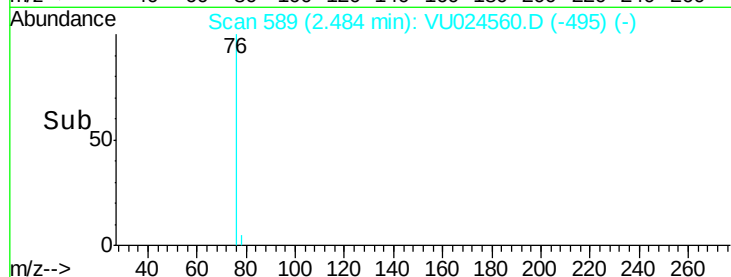
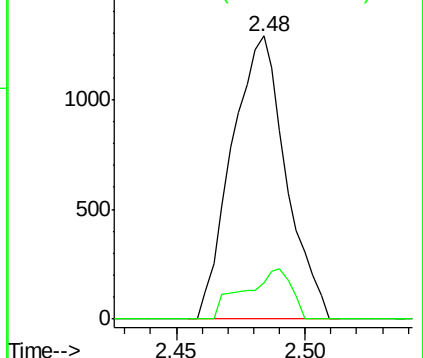
76 100

78 12.7 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



#20

Methylene Chloride

Concen: 0.270 ug/l

RT: 2.72 min Scan# 661

Delta R.T. 0.01 min

Lab File: VU024560.D

Acq: 14 Jun 2018 23:49

Tgt Ion: 84 Resp: 614

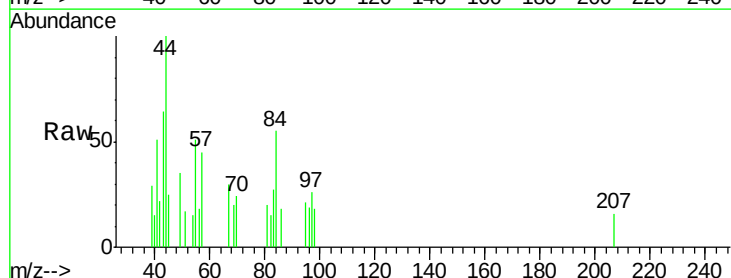
Ion Ratio Lower Upper

84 100

49 64.2 103.8 155.8#

51 30.9 32.0 48.0#

86 32.8 51.6 77.4#

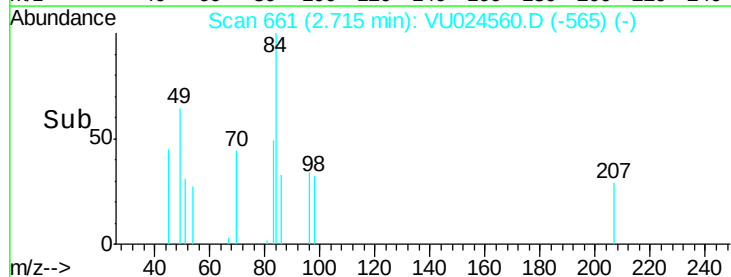
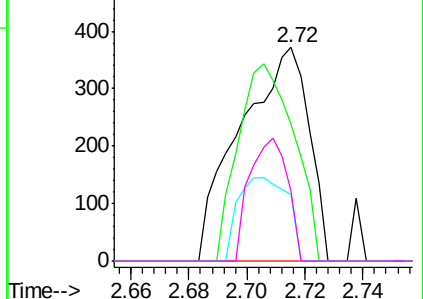


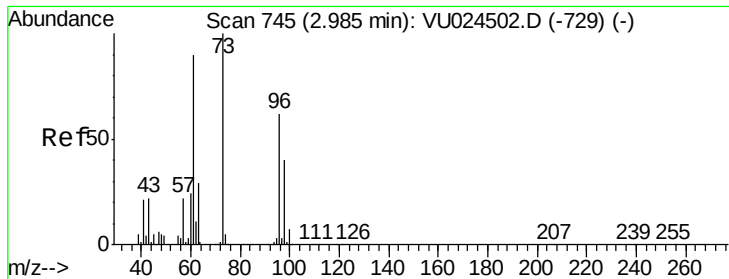
Abundance Ion 83.90 (83.60 to 84.60): VU0

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





#21

trans-1,2-Dichloroethene

Concen: 0.226 ug/l

RT: 3.00 min Scan# 748

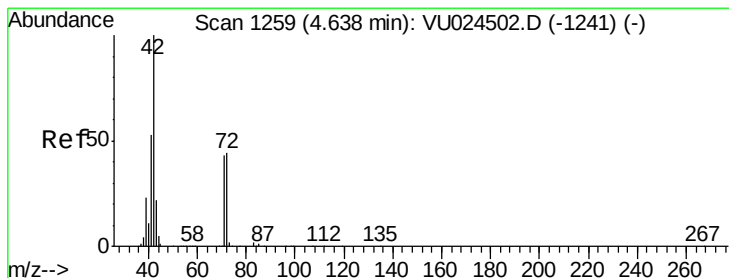
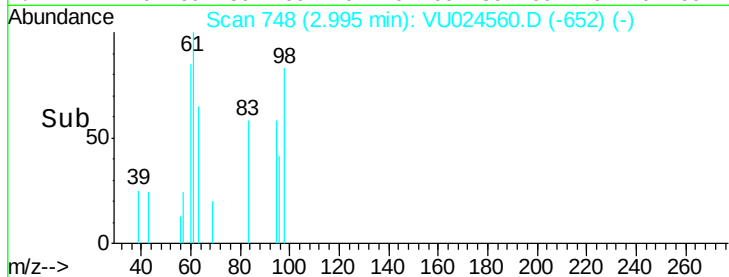
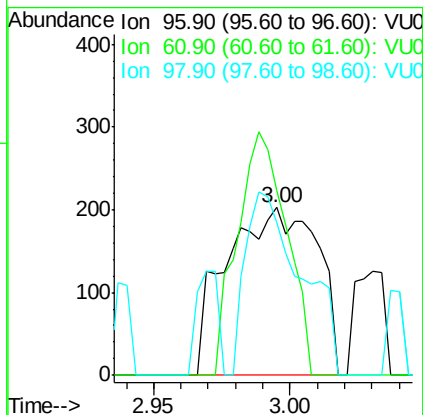
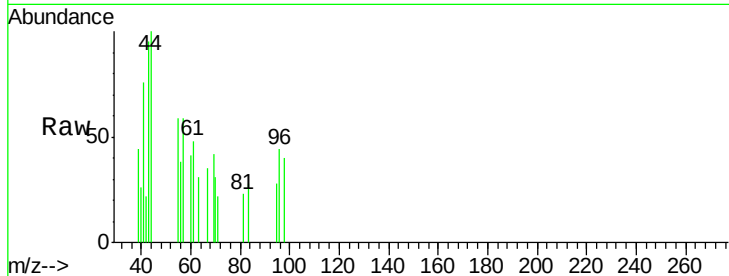
Delta R.T. 0.01 min

Lab File: VU024560.D

Acq: 14 Jun 2018 23:49

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 96 Resp: 468
Ion Ratio Lower Upper
96 100
61 109.9 119.4 179.0#
98 91.1 51.1 76.7#



#29

Tetrahydrofuran

Concen: 0.670 ug/l

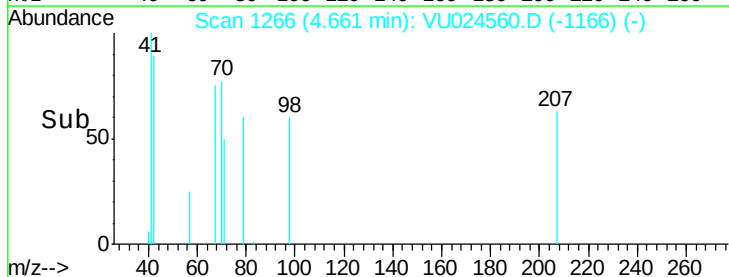
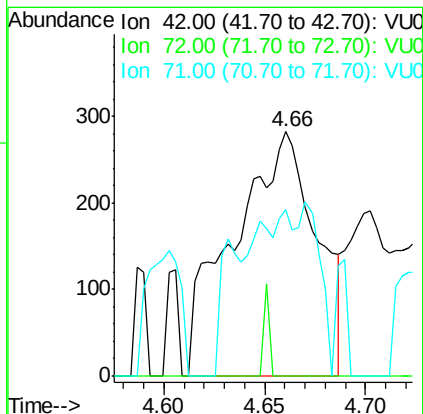
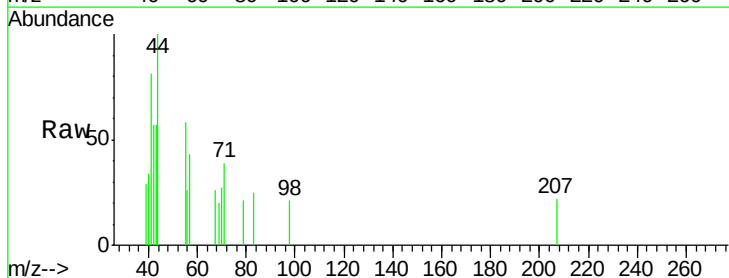
RT: 4.66 min Scan# 1266

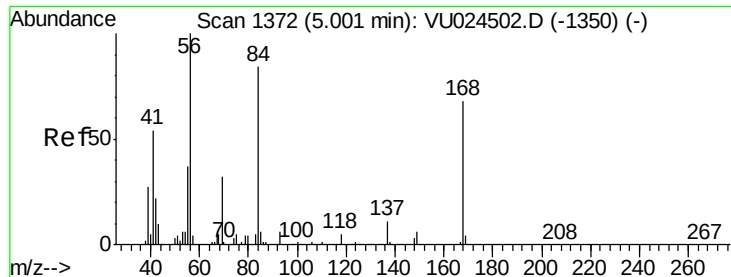
Delta R.T. 0.02 min

Lab File: VU024560.D

Acq: 14 Jun 2018 23:49

Tgt Ion: 42 Resp: 806
Ion Ratio Lower Upper
42 100
72 2.5 34.5 51.7#
71 2.6 32.2 48.4#

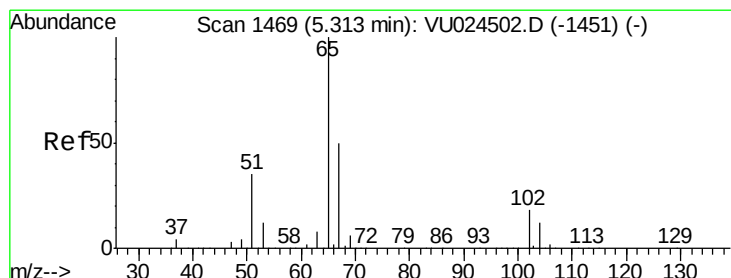
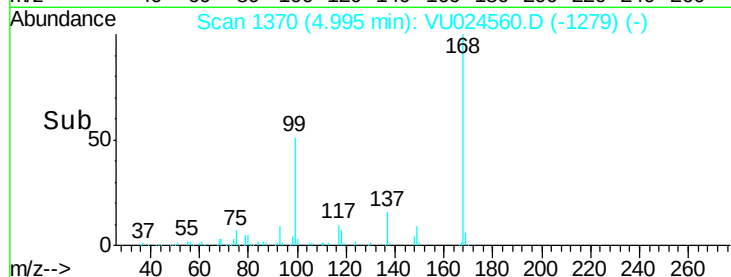
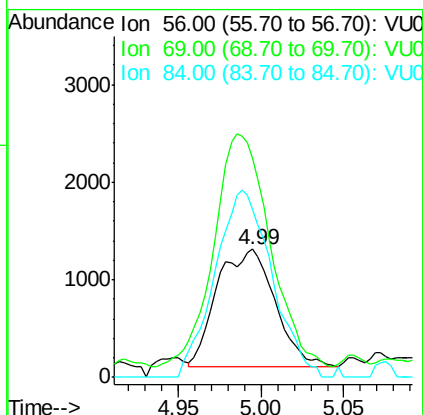
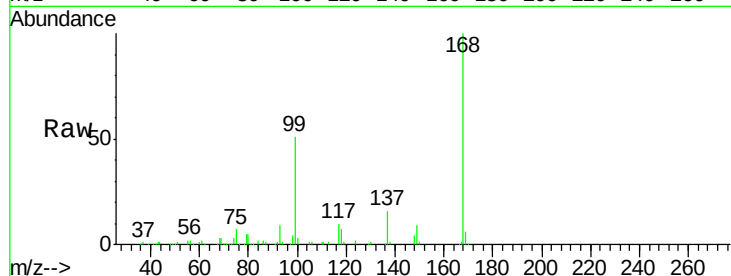




#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1370
Delta R.T. -0.01 min
Lab File: VU024560.D
Acq: 14 Jun 2018 23:49

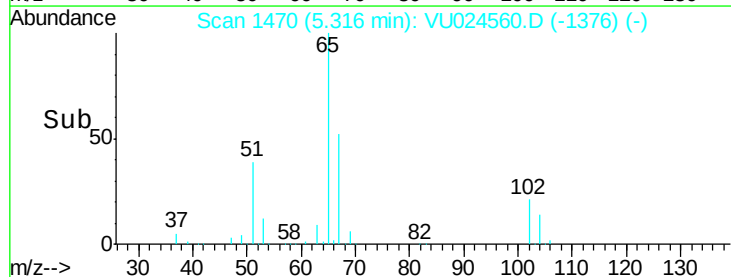
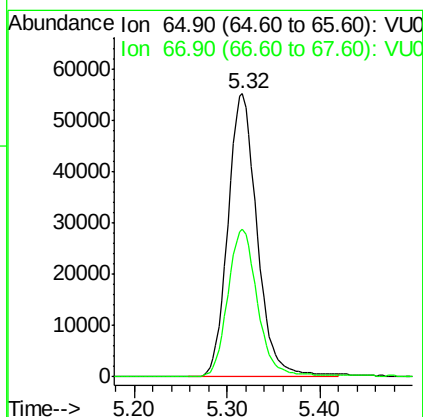
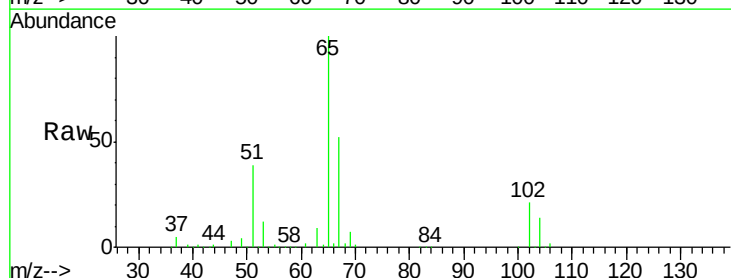
Instrument :
MSVOA_U
ClientSampleId :

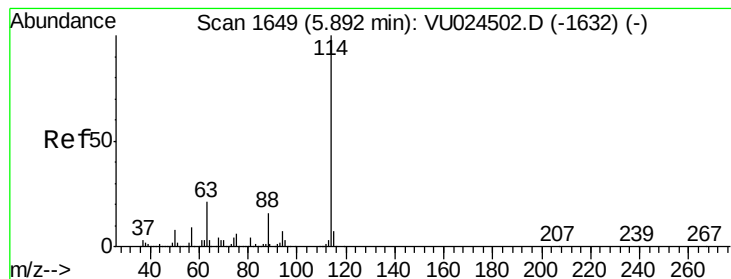
Tot Ion	56	Resp	2927
Ion	Ratio	Lower	Upper
56	100		
69	177.0	24.8	37.2#
84	134.9	65.2	97.8#



#33
1,2-Dichloroethane-d4
Concen: 44.833 ug/l
RT: 5.32 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VU024560.D
Acq: 14 Jun 2018 23:49

Tgt Ion	65	Resp	120743
Ion	Ratio	Lower	Upper
65	100		
67	51.6	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: VU024560.D

Acq: 14 Jun 2018 23:49

Instrument :

MSVOA_U

ClientSampleId :

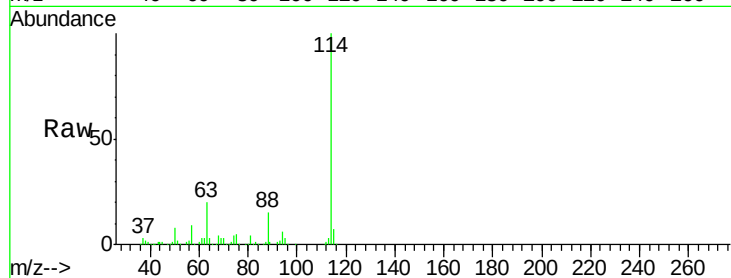
Tot Ion:114 Resp: 271454

Ion Ratio Lower Upper

114 100

63 20.3 0.0 45.4

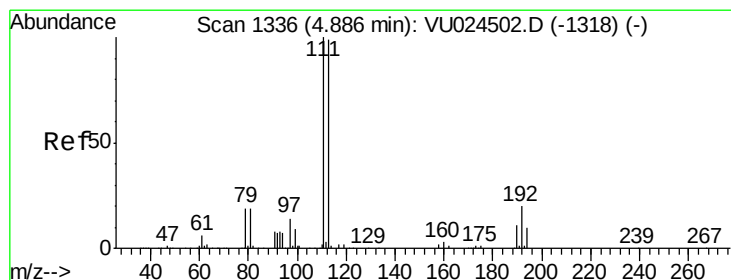
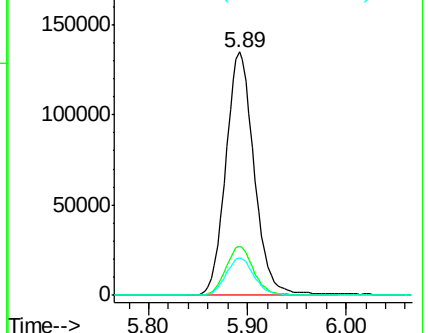
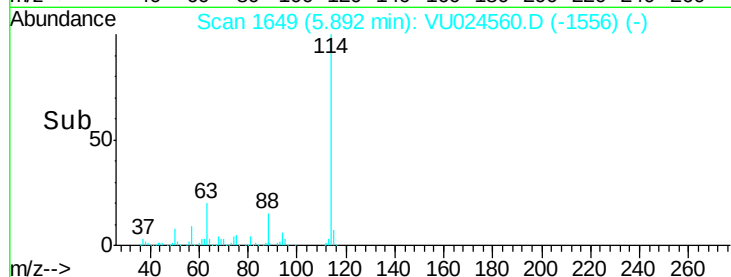
88 15.3 0.0 31.0



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: 47.733 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU024560.D

Acq: 14 Jun 2018 23:49

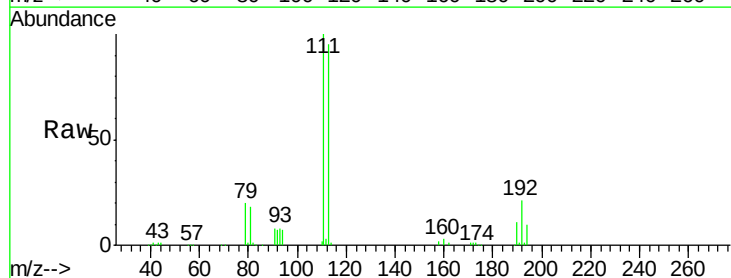
Tgt Ion:113 Resp: 107536

Ion Ratio Lower Upper

113 100

111 102.4 82.2 123.4

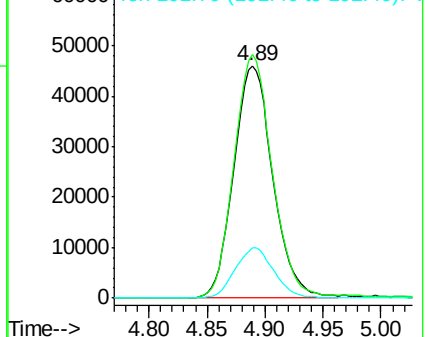
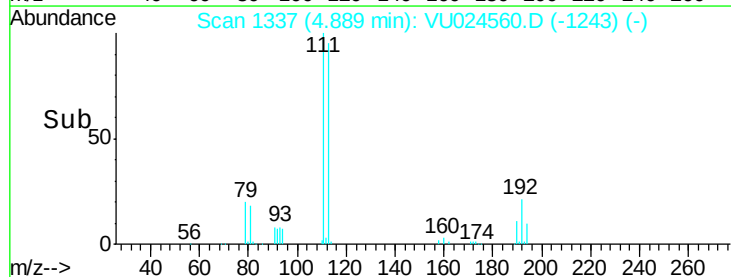
192 21.5 16.2 24.4

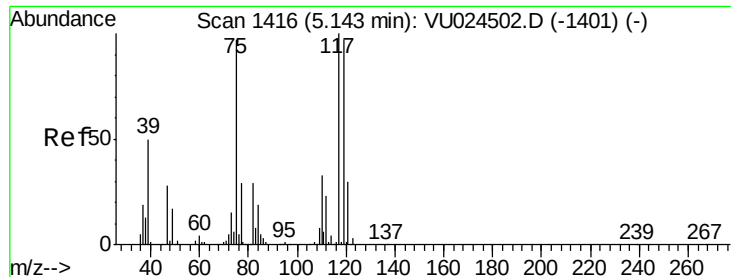


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.501 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU024560.D

Acq: 14 Jun 2018 23:49

Instrument :

MSVOA_U

ClientSampleId :

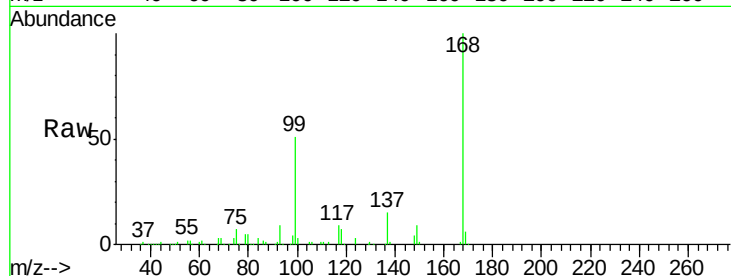
Tot Ion: 75 Resp: 11166

Ion Ratio Lower Upper

75 100

110 10.4 17.0 50.9#

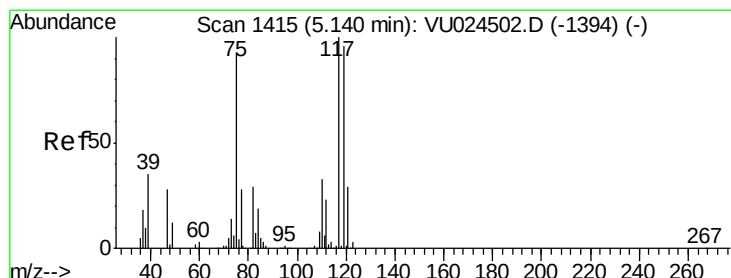
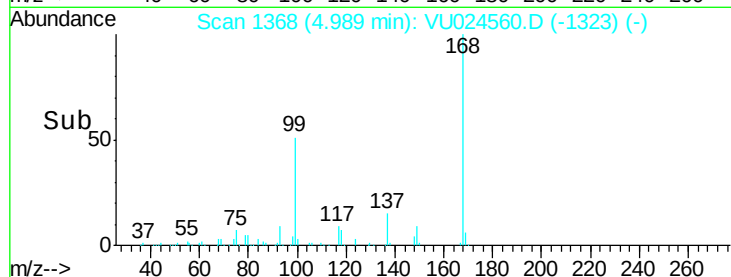
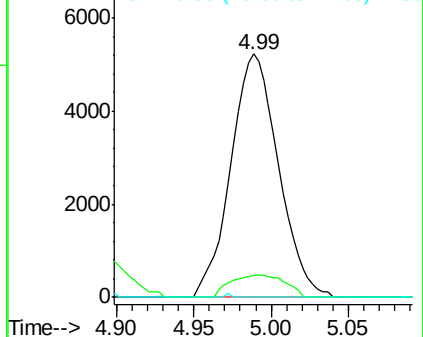
77 0.2 24.2 36.4#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0



#38

Carbon Tetrachloride

Concen: 4.390 ug/l

RT: 4.99 min Scan# 1369

Delta R.T. -0.15 min

Lab File: VU024560.D

Acq: 14 Jun 2018 23:49

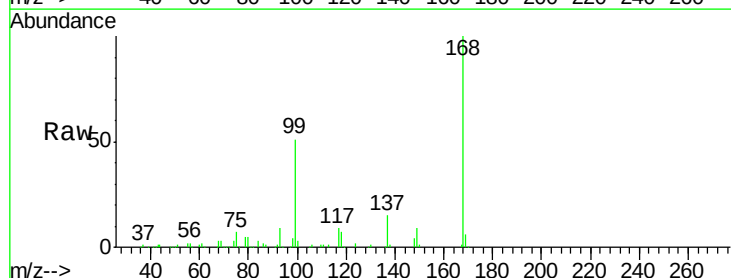
Tgt Ion: 117 Resp: 15400

Ion Ratio Lower Upper

117 100

119 4.9 76.1 114.1#

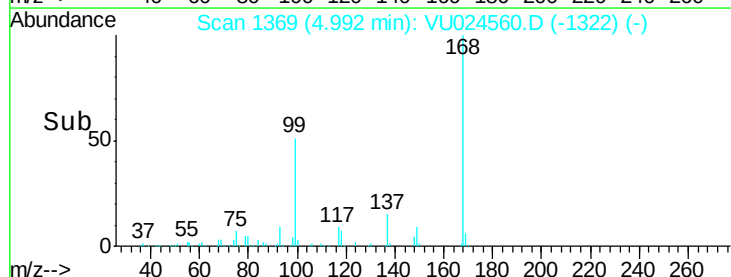
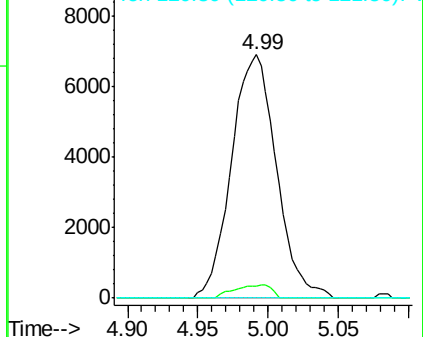
121 0.0 23.7 35.5#

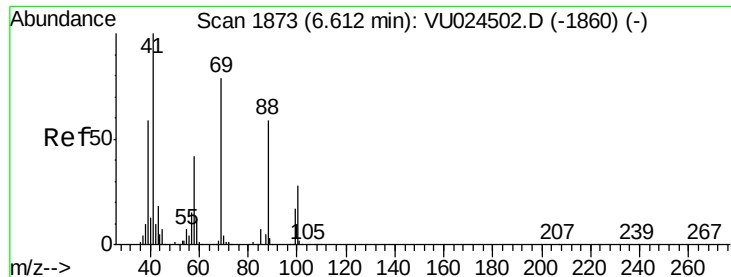


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#49

1,4-Dioxane

Concen: 1.048 ug/l

RT: 6.64 min Scan# 1881

Delta R.T. 0.03 min

Lab File: VU024560.D

Acq: 14 Jun 2018 23:49

Instrument :
MSVOA_U
ClientSampled :

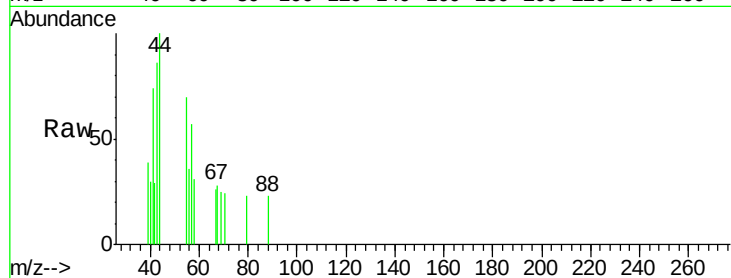
Tot Ion: 88 Resp: 60

Ion Ratio Lower Upper

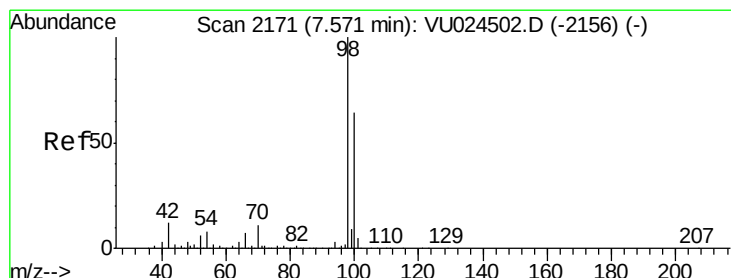
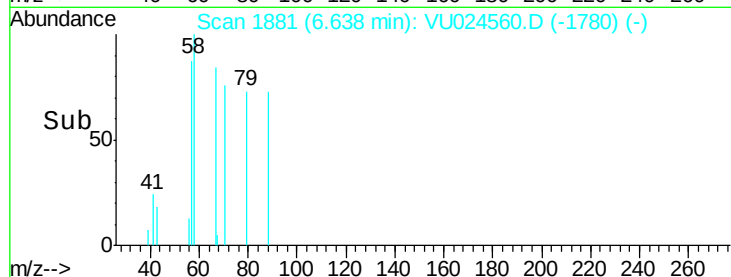
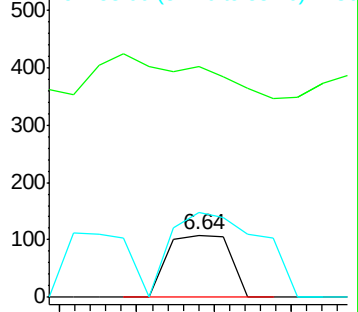
88 100

43 186.7 28.6 42.8#

58 198.3 58.2 87.4#



Abundance Ion 88.00 (87.70 to 88.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0



#50

Toluene-d8

Concen: 48.779 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. -0.00 min

Lab File: VU024560.D

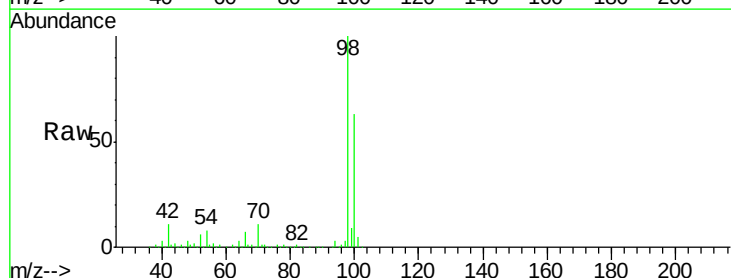
Acq: 14 Jun 2018 23:49

Tgt Ion: 98 Resp: 400844

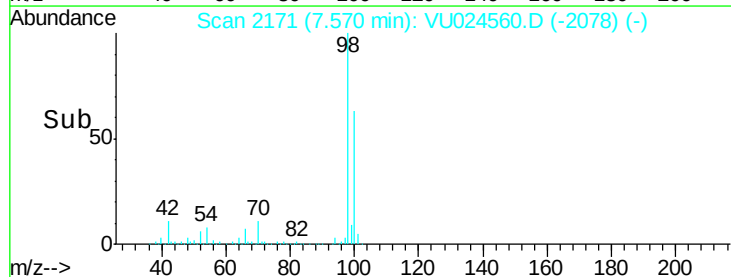
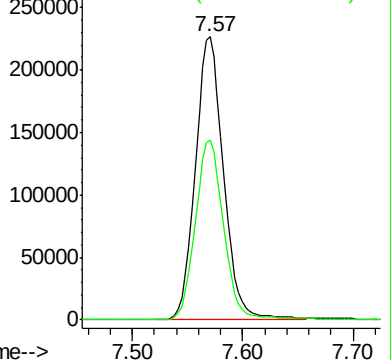
Ion Ratio Lower Upper

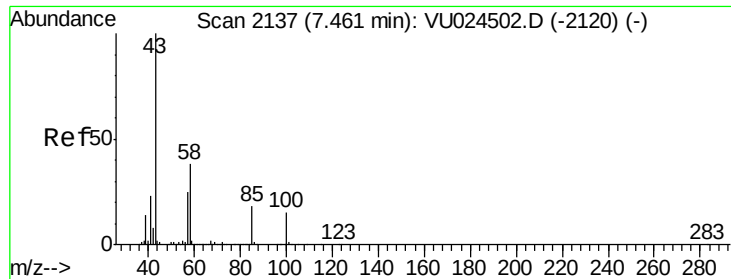
98 100

100 63.7 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

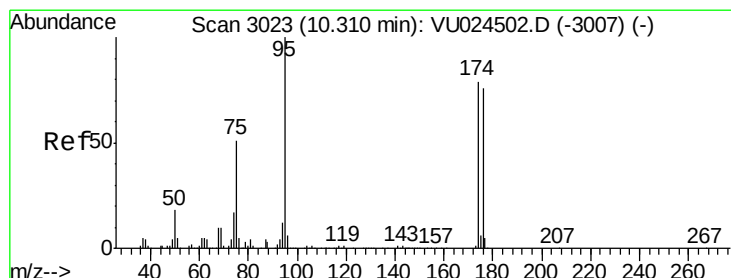
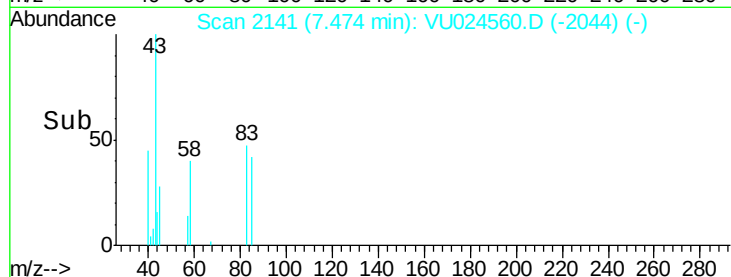
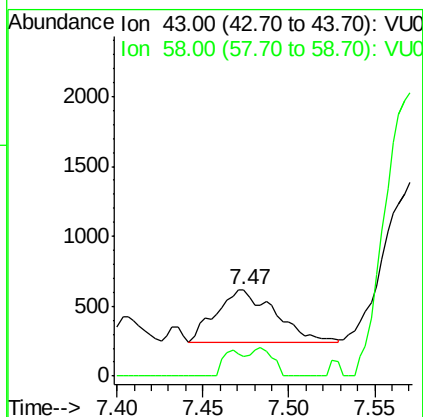
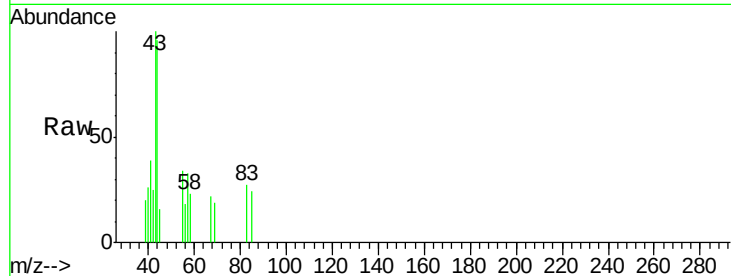




#51
 4-Methyl-2-Pentanone
 Concen: 0.239 ug/l
 RT: 7.47 min Scan# 2141
 Delta R.T. 0.01 min
 Lab File: VU024560.D
 Acq: 14 Jun 2018 23:49

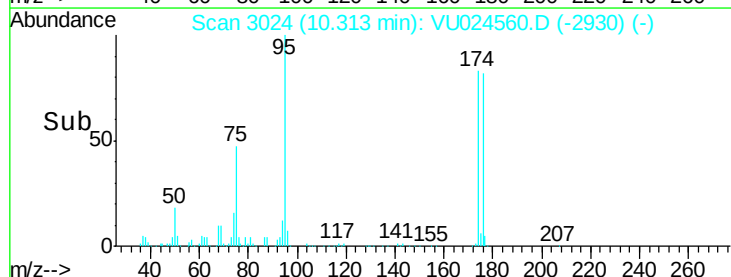
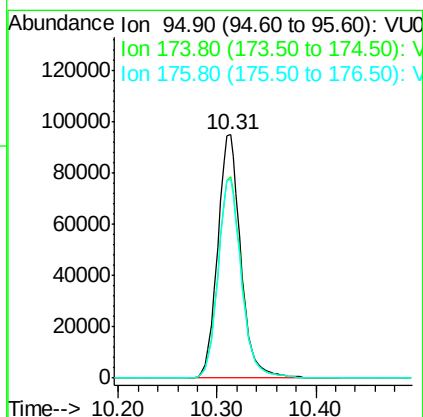
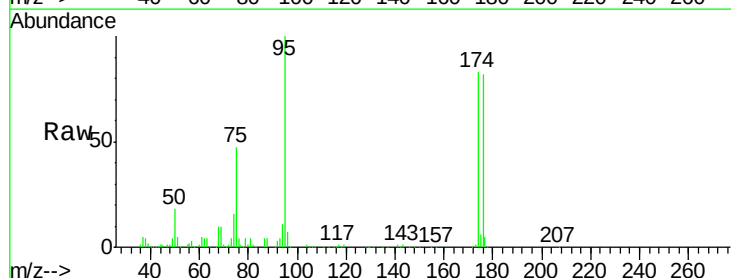
Instrument :
 MSVOA_U
 ClientSampleId :

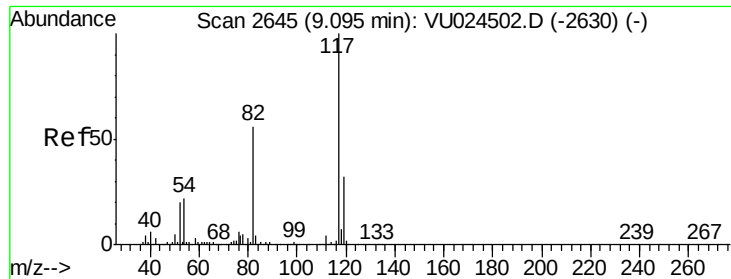
Tot Ion: 43 Resp: 901
 Ion Ratio Lower Upper
 43 100
 58 16.6 30.0 45.0#



#62
 4-Bromofluorobenzene
 Concen: 47.923 ug/l
 RT: 10.31 min Scan# 3024
 Delta R.T. 0.00 min
 Lab File: VU024560.D
 Acq: 14 Jun 2018 23:49

Tgt Ion: 95 Resp: 156359
 Ion Ratio Lower Upper
 95 100
 174 83.7 0.0 165.8
 176 81.9 0.0 159.4

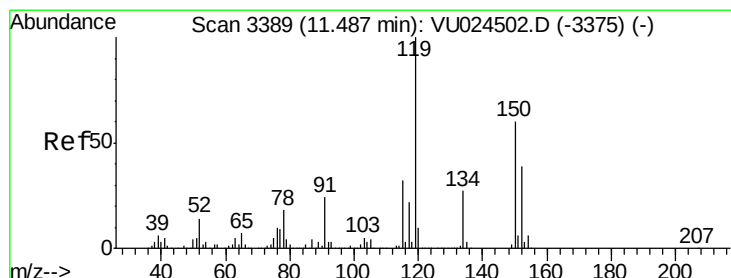
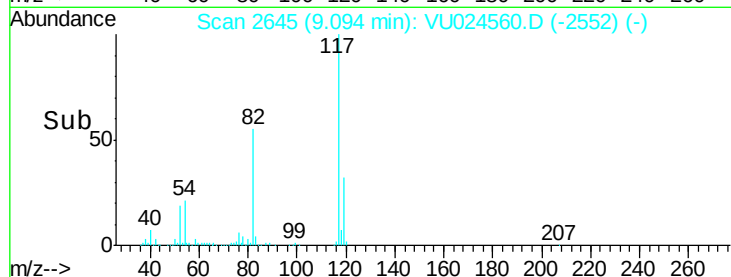
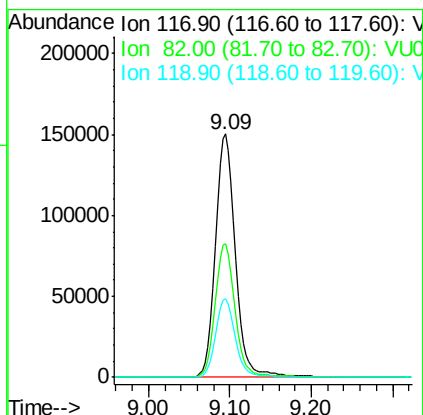
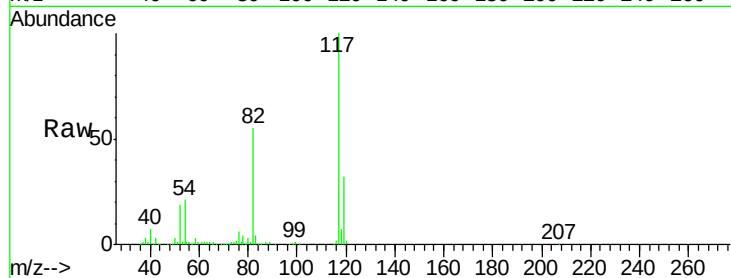




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. -0.00 min
Lab File: VU024560.D
Acq: 14 Jun 2018 23:49

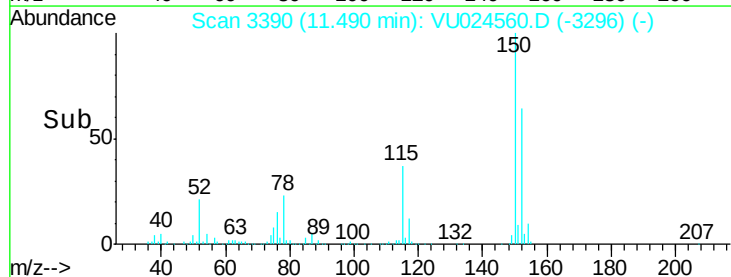
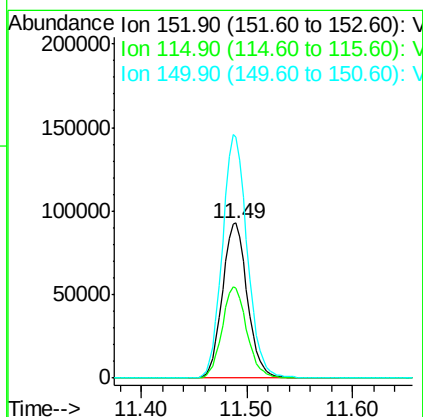
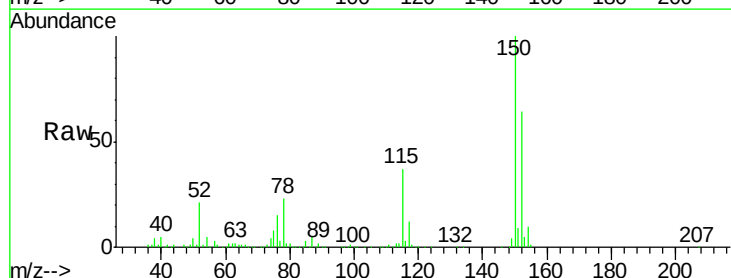
Instrument :
MSVOA_U
ClientSampleId :

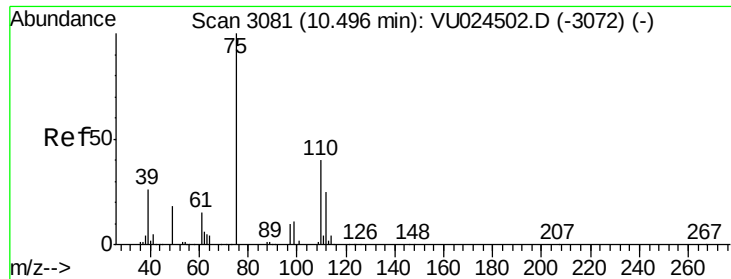
Tot Ion:117 Resp: 262210
Ion Ratio Lower Upper
117 100
82 54.7 44.3 66.5
119 32.1 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.49 min Scan# 3390
Delta R.T. 0.00 min
Lab File: VU024560.D
Acq: 14 Jun 2018 23:49

Tgt Ion:152 Resp: 152620
Ion Ratio Lower Upper
152 100
115 58.0 43.0 129.0
150 155.7 0.0 354.0

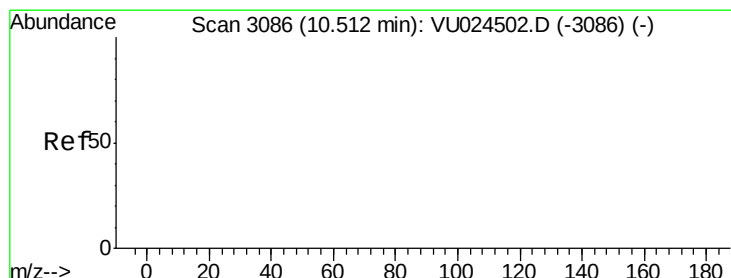
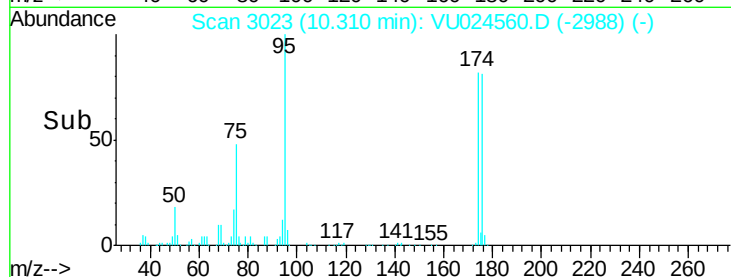
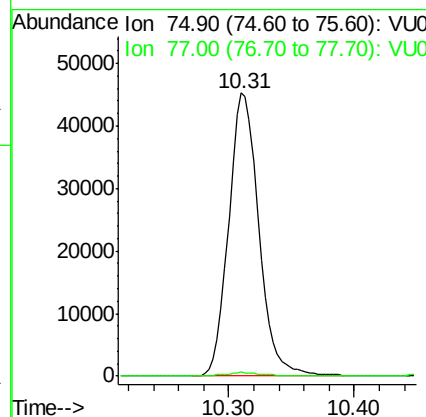
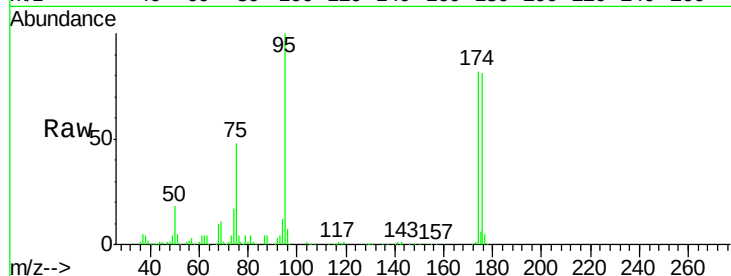




#76
 1,2,3-Trichloropropane
 Concen: 22.451 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. -0.19 min
 Lab File: VU024560.D
 Acq: 14 Jun 2018 23:49

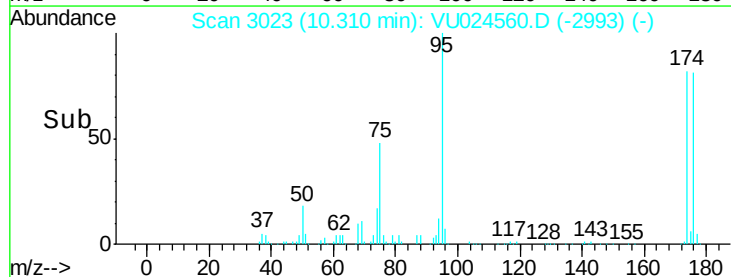
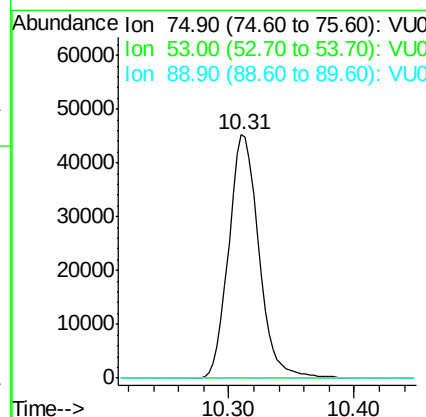
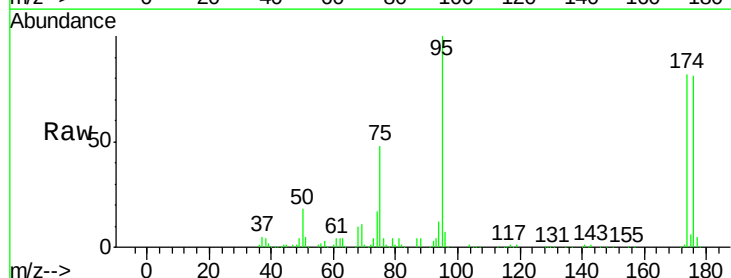
Instrument :
 MSVOA_U
 ClientSampled :

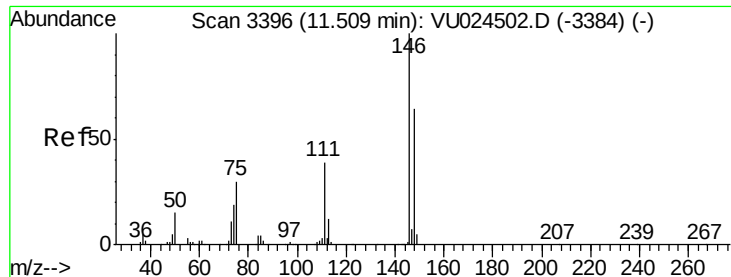
Tot Ion: 75 Resp: 75440
 Ion Ratio Lower Upper
 75 100
 77 1.5 20.9 62.7#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 51.962 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. -0.20 min
 Lab File: VU024560.D
 Acq: 14 Jun 2018 23:49

Tgt Ion: 75 Resp: 75440
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.0 0.0 0.0

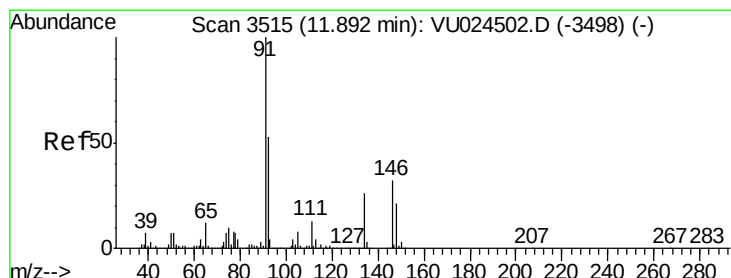
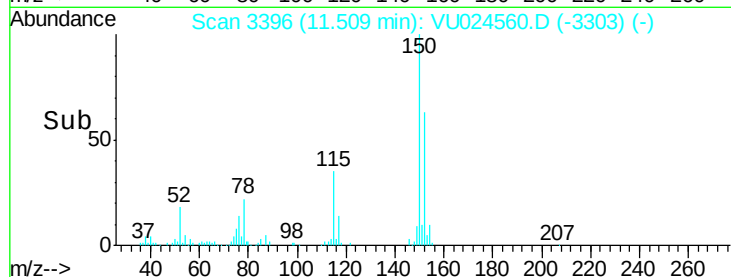
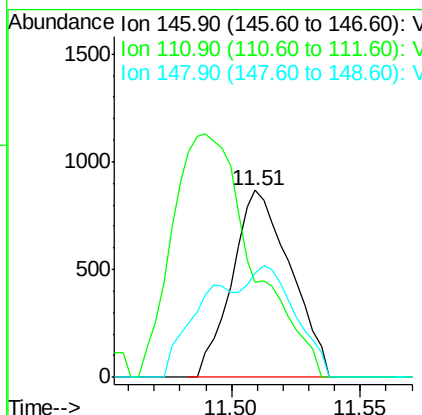
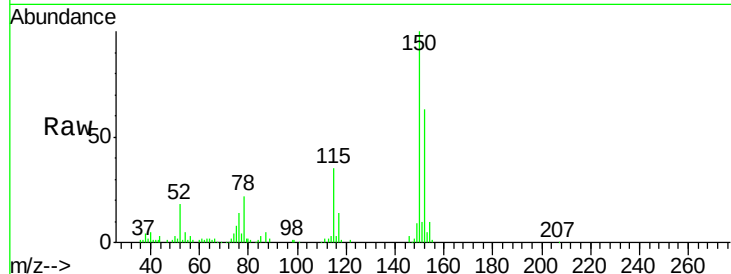




#88
 1,4-Dichlorobenzene
 Concen: 0.248 ug/l
 RT: 11.51 min Scan# 3396
 Delta R.T. -0.00 min
 Lab File: VU024560.D
 Acq: 14 Jun 2018 23:49

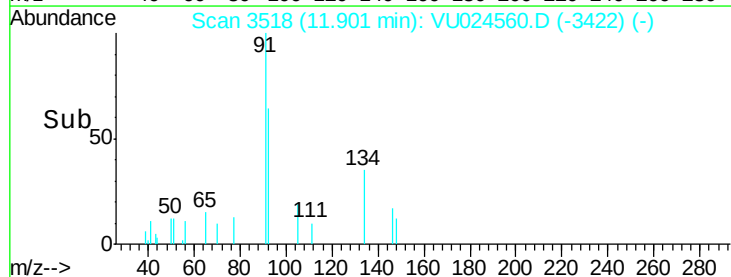
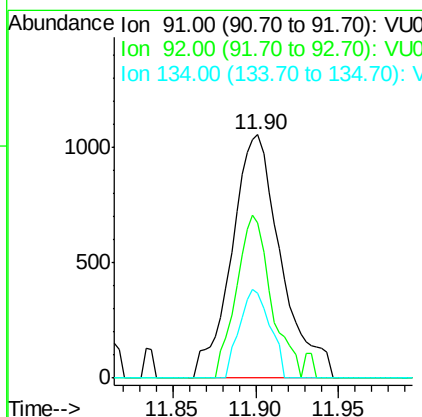
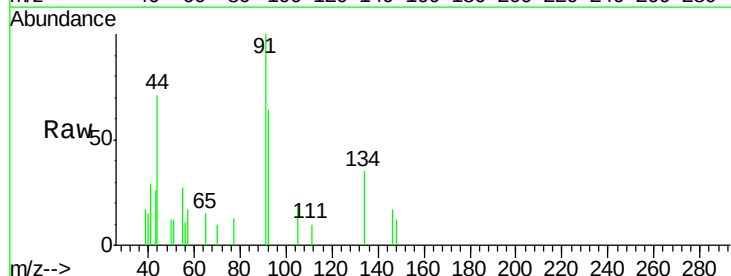
Instrument :
 MSVOA_U
 ClientSampled :

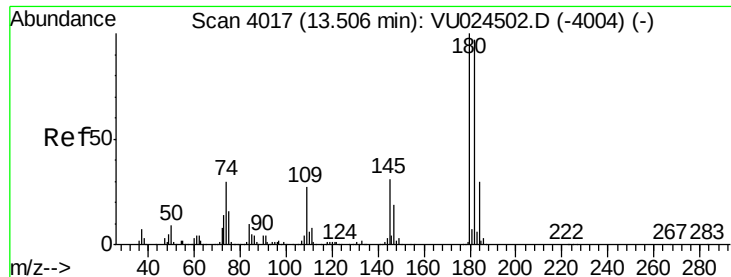
Tot Ion:146 Resp: 1367
 Ion Ratio Lower Upper
 146 100
 111 0.0 19.5 58.5#
 148 49.5 32.4 97.0



#89
 n-Butylbenzene
 Concen: 0.224 ug/l
 RT: 11.90 min Scan# 3518
 Delta R.T. 0.01 min
 Lab File: VU024560.D
 Acq: 14 Jun 2018 23:49

Tgt Ion: 91 Resp: 2180
 Ion Ratio Lower Upper
 91 100
 92 46.9 25.6 76.8
 134 22.5 12.3 36.8

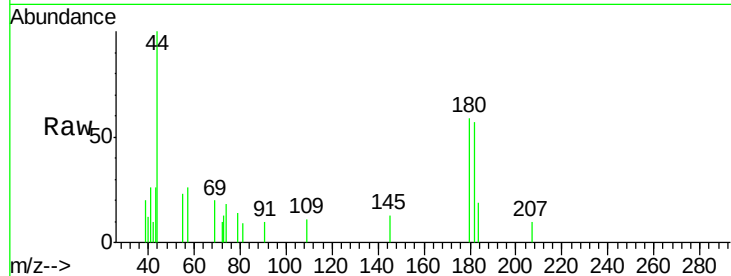




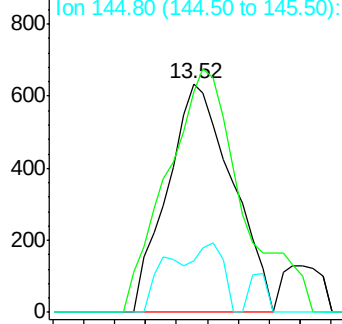
#93
 1,2,4-Trichlorobenzene
 Concen: 0.273 ug/l
 RT: 13.52 min Scan# 4020
 Delta R.T. 0.01 min
 Lab File: VU024560.D
 Acq: 14 Jun 2018 23:49

Instrument :
 MSVOA_U
 ClientSampleId :

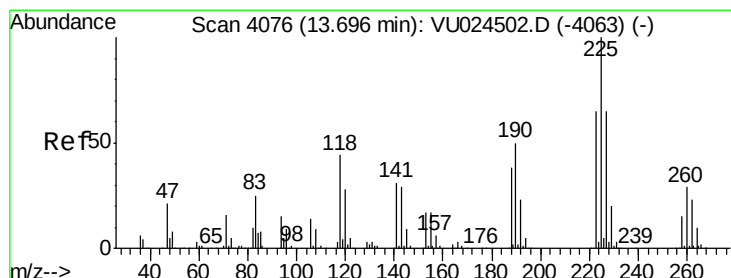
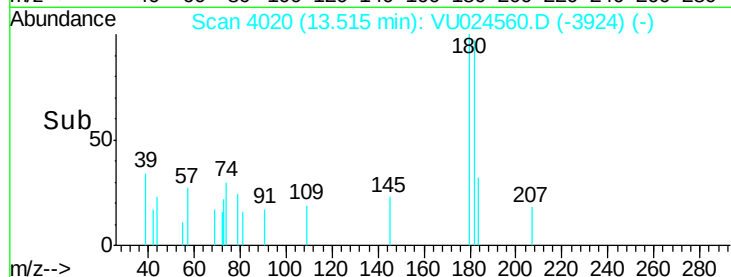
Tot Ion:180 Resp: 926
 Ion Ratio Lower Upper
 180 100
 182 123.8 48.0 144.2
 145 13.8 14.7 44.1#



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

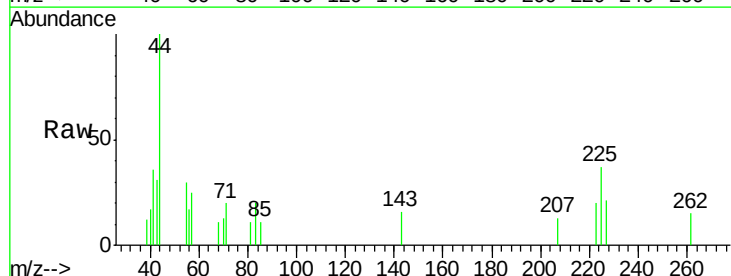


Time-->

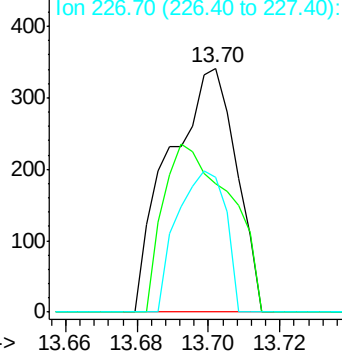


#94
 Hexachlorobutadiene
 Concen: 0.232 ug/l
 RT: 13.70 min Scan# 4078
 Delta R.T. 0.01 min
 Lab File: VU024560.D
 Acq: 14 Jun 2018 23:49

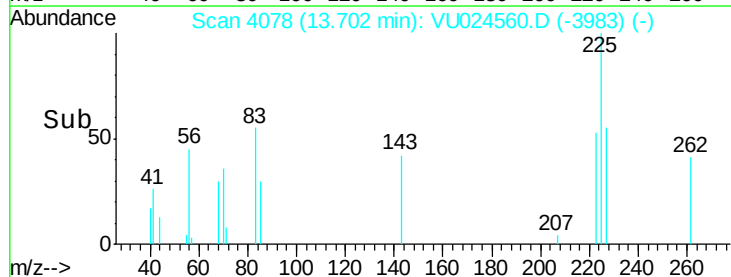
Tgt Ion:225 Resp: 442
 Ion Ratio Lower Upper
 225 100
 223 69.2 31.3 93.8
 227 41.9 31.8 95.4

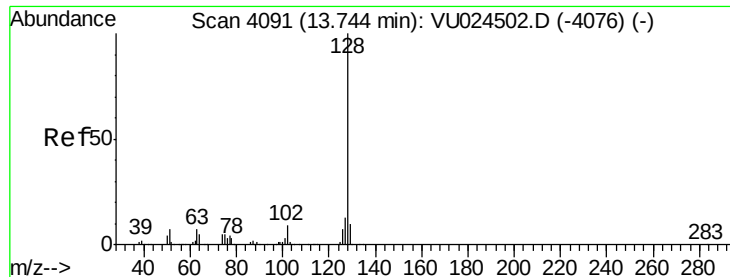


Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V



Time-->





#95

Naphthalene

Concen: 1.161 ug/l

RT: 13.76 min Scan# 4095

Delta R.T. 0.01 min

Lab File: VU024560.D

Acq: 14 Jun 2018 23:49

Instrument :

MSVOA_U

ClientSampled :

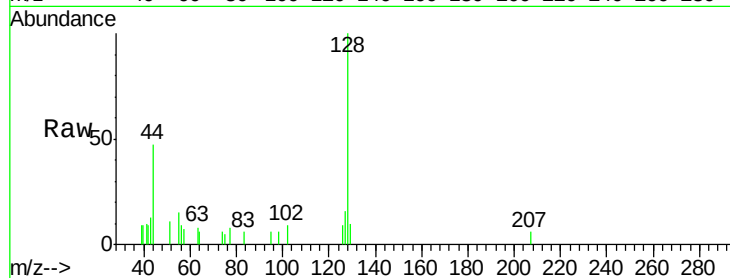
Tot Ion:128 Resp: 5481

Ion Ratio Lower Upper

128 100

127 12.3 10.6 16.0

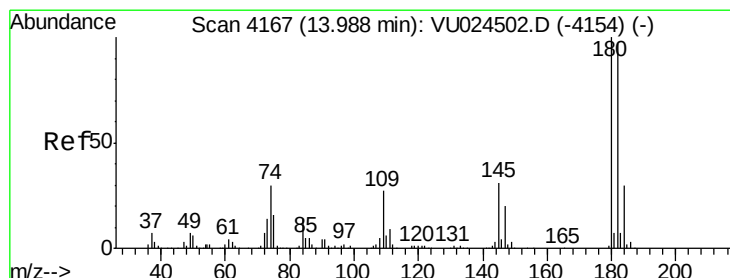
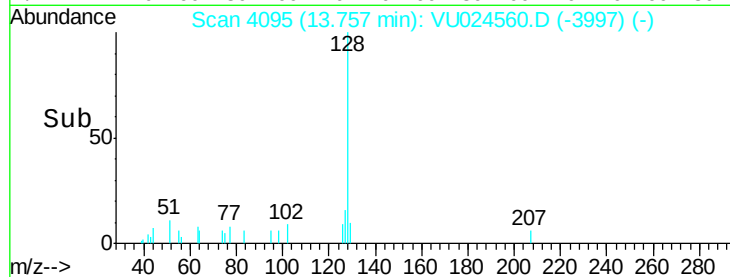
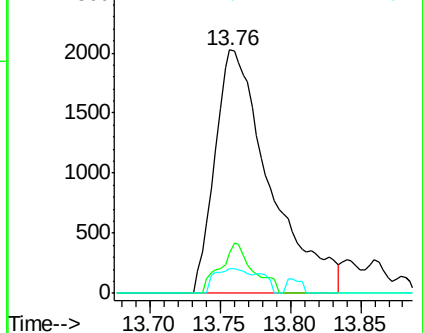
129 8.4 8.6 12.8#



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: 0.371 ug/l

RT: 13.99 min Scan# 4169

Delta R.T. 0.01 min

Lab File: VU024560.D

Acq: 14 Jun 2018 23:49

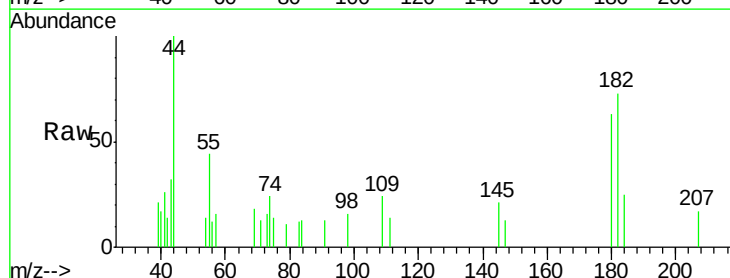
Tgt Ion:180 Resp: 1253

Ion Ratio Lower Upper

180 100

182 103.5 47.9 143.7

145 20.8 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

