

Data File : VU027068.D
Acq On : 23 Sep 2018 13:46
Operator : MD/SY
Sample : J4954-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 110 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
TB02-20180914

Quant Time: Sep 24 07:13:46 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U092218W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 22 01:31:57 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	106659	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	184834	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	172799	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	76539	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	114346	53.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.54%	
35) Dibromofluoromethane	4.88	113	79135	49.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.78%	
50) Toluene-d8	7.57	98	293737	48.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.22%	
62) 4-Bromofluorobenzene	10.31	95	93904	44.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.64%	

Target Compounds

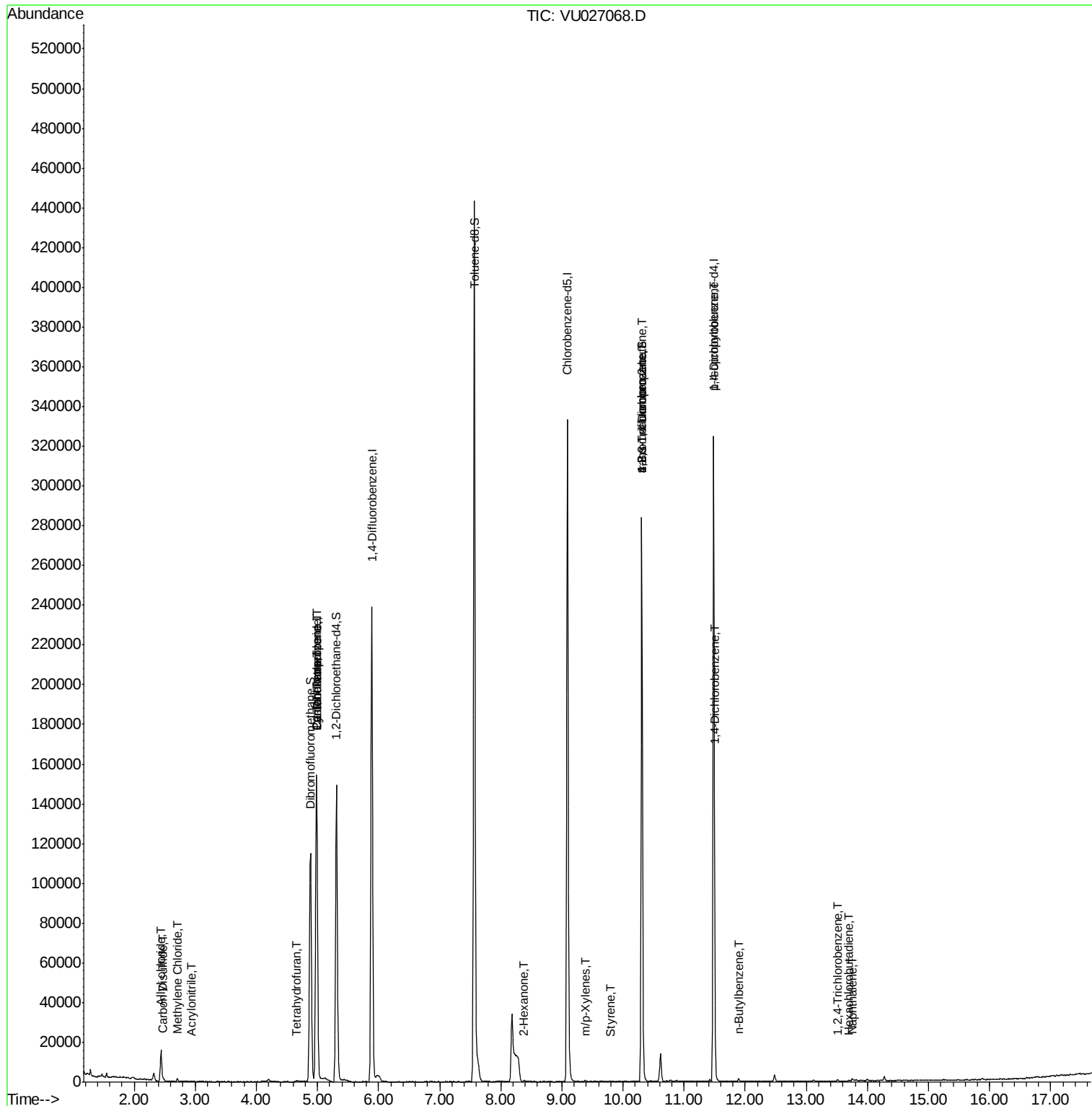
						Qvalue
14) Allyl chloride	2.44	41	1660	0.556	ug/l #	75
15) Acrylonitrile	2.94	53	278	0.224	ug/l #	42
16) Acetone	2.32	43	3416	Below Cal		100
17) Carbon Disulfide	2.48	76	1085	0.226	ug/l #	75
20) Methylene Chloride	2.70	84	515	0.268	ug/l #	76
29) Tetrahydrofuran	4.66	42	398	0.365	ug/l #	37
31) Cyclohexane	4.98	56	3093	0.396	ug/l #	1
36) 1,1-Dichloropropene	4.99	75	10297	4.174	ug/l #	50
38) Carbon Tetrachloride	4.99	117	11531	4.912	ug/l #	19
59) 2-Hexanone	8.39	43	1123	0.438	ug/l #	55
68) m/p-Xylenes	9.38	106	193	1.563	ug/l #	1
70) Styrene	9.80	104	217	1.852	ug/l #	24
76) 1,2,3-Trichloropropane	10.31	75	51069	21.963	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	51069	70.285	ug/l #	100
86) p-Isopropyltoluene	11.48	119	393	0.998	ug/l #	51
88) 1,4-Dichlorobenzene	11.51	146	763	0.264	ug/l #	69
89) n-Butylbenzene	11.89	91	887	2.552	ug/l #	85
93) 1,2,4-Trichlorobenzene	13.51	180	392	0.242	ug/l #	54
94) Hexachlorobutadiene	13.69	225	178	0.208	ug/l	76
95) Naphthalene	13.75	128	2018	1.997	ug/l #	69

(#) = 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# 1186

Delta R.T. -0.00 min

Lab File: VU027068.D

Acq: 23 Sep 2018 13:46

Instrument :

MSVOA_U

ClientSampleId :

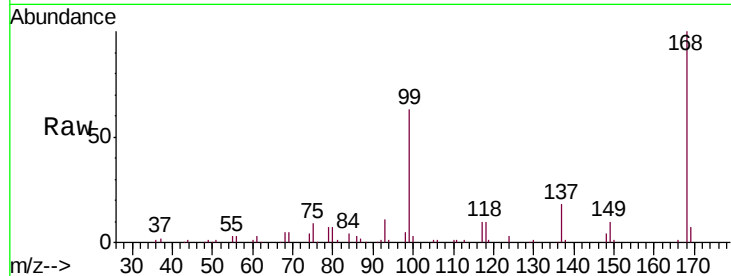
TB02-20180914

Tgt Ion:168 Resp: 106659

Ion Ratio Lower Upper

168 100

99 62.7 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): VU026969.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU026969.D (-1169) (-)

4.99

50000

40000

30000

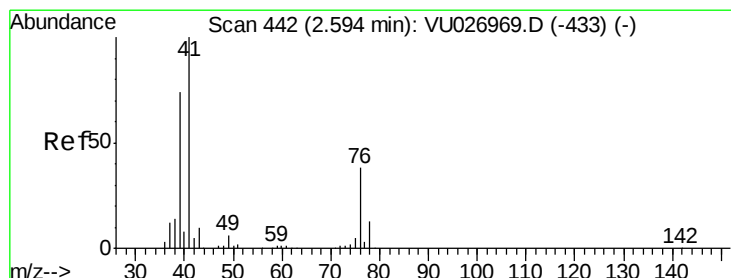
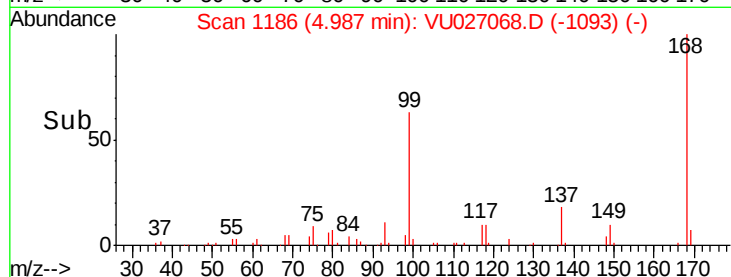
20000

10000

0

4.90 4.95 5.00 5.05

Time-->



#14

Allyl chloride

Concen: 0.556 ug/l

RT: 2.44 min Scan# 394

Delta R.T. -0.15 min

Lab File: VU027068.D

Acq: 23 Sep 2018 13:46

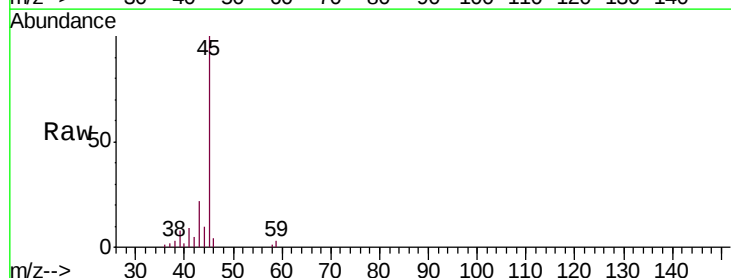
Tgt Ion: 41 Resp: 1660

Ion Ratio Lower Upper

41 100

39 77.3 55.7 83.5

76 0.0 26.5 39.7#



Abundance Ion 41.00 (40.70 to 41.70): VU026969.D (-433) (-)

Ion 39.00 (38.70 to 39.70): VU026969.D (-433) (-)

Ion 75.90 (75.60 to 76.60): VU026969.D (-433) (-)

2.44

1200

1000

800

600

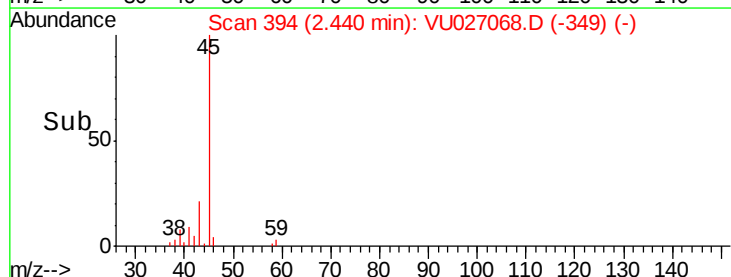
400

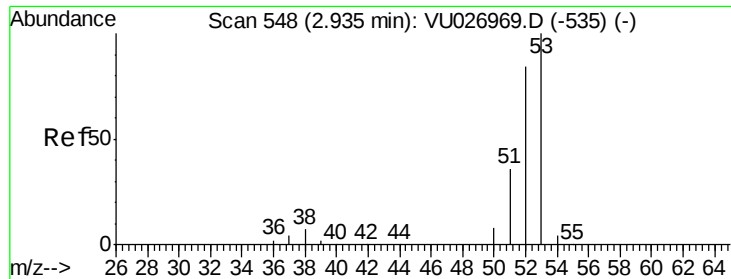
200

0

2.40 2.45 2.50

Time-->





#15

Acrylonitrile

Concen: 0.224 ug/l

RT: 2.94 min Scan# 550

Delta R.T. 0.01 min

Lab File: VU027068.D

Acq: 23 Sep 2018 13:46

Instrument :

MSVOA_U

ClientSampleId :

TB02-20180914

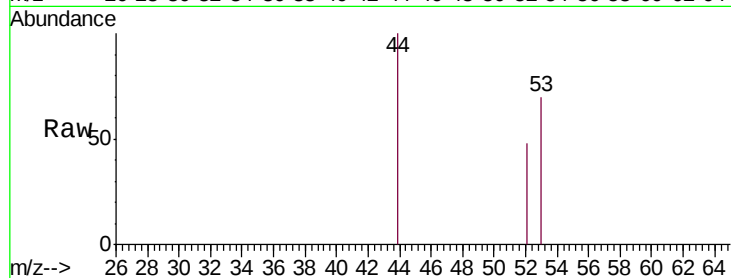
Tgt Ion: 53 Resp: 278

Ion Ratio Lower Upper

53 100

52 30.6 65.7 98.5#

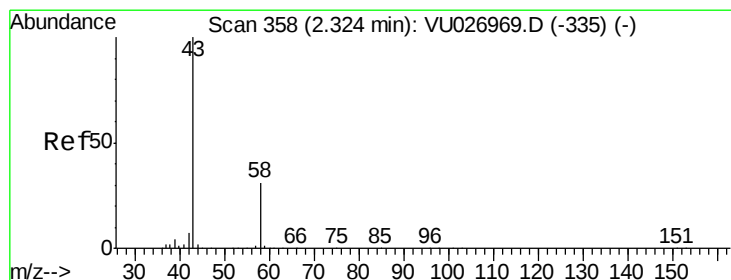
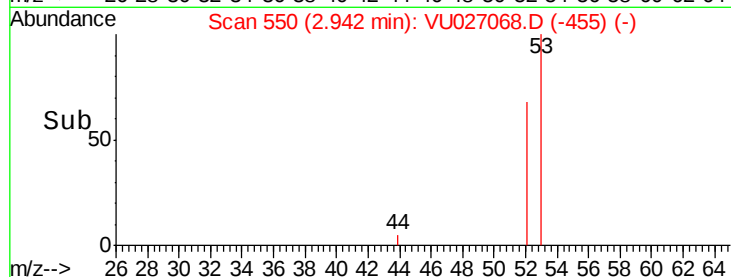
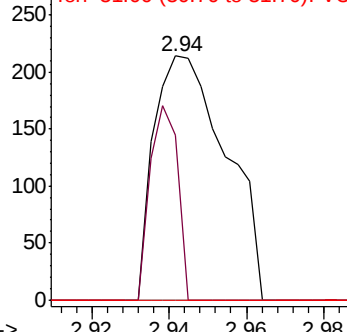
51 0.0 27.4 41.2#



Abundance Ion 53.00 (52.70 to 53.70): VU0

Ion 52.00 (51.70 to 52.70): VU0

Ion 51.00 (50.70 to 51.70): VU0



#16

Acetone

Concen: Below Cal

RT: 2.32 min Scan# 356

Delta R.T. -0.01 min

Lab File: VU027068.D

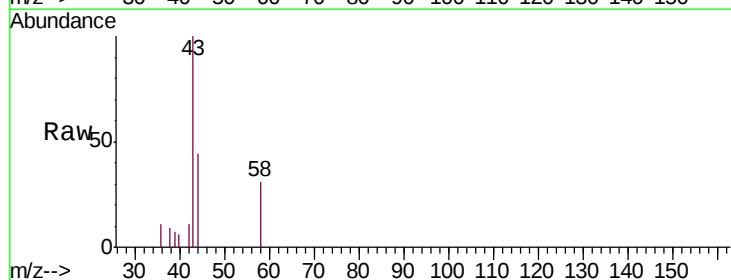
Acq: 23 Sep 2018 13:46

Tgt Ion: 43 Resp: 3416

Ion Ratio Lower Upper

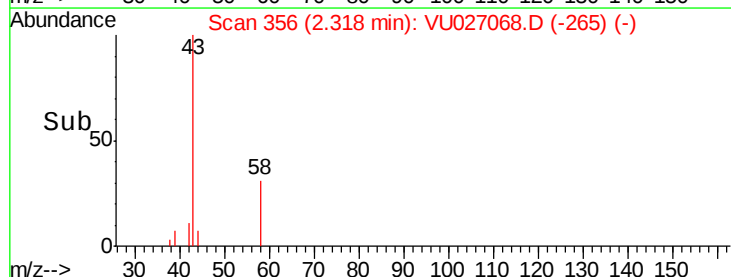
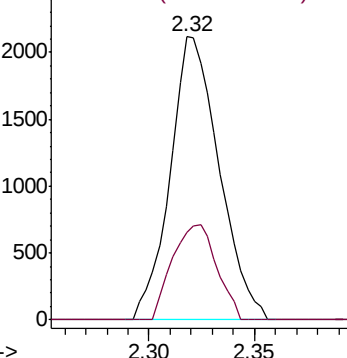
43 100

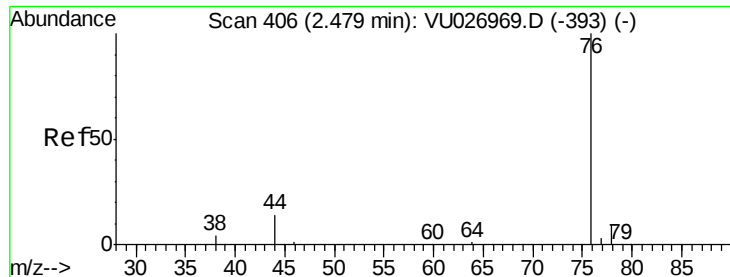
58 30.8 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0





#17

Carbon Disulfide

Concen: 0.226 ug/l

RT: 2.48 min Scan# 406

Delta R.T. -0.00 min

Lab File: VU027068.D

Acq: 23 Sep 2018 13:46

Instrument :

MSVOA_U

ClientSampleId :

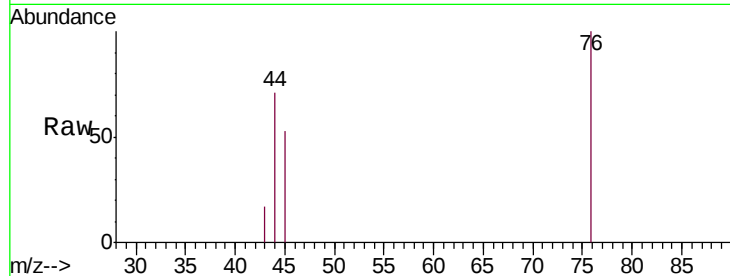
TB02-20180914

Tgt Ion: 76 Resp: 1085

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VU026969.D (-393) (-)

Ion 77.90 (77.60 to 78.60): VU026969.D (-393) (-)

2.48

800

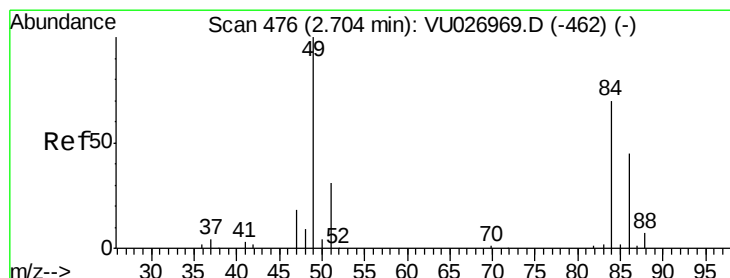
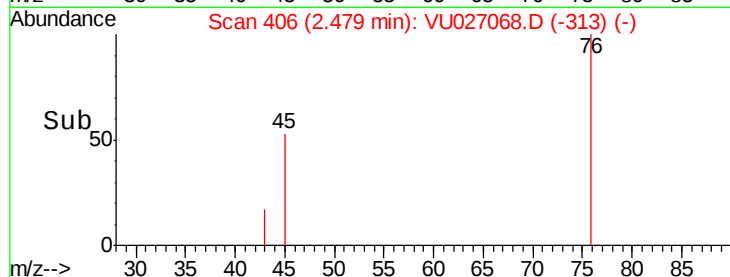
600

400

200

0

Time-->



#20

Methylene Chloride

Concen: 0.268 ug/l

RT: 2.70 min Scan# 475

Delta R.T. -0.00 min

Lab File: VU027068.D

Acq: 23 Sep 2018 13:46

Tgt Ion: 84 Resp: 515

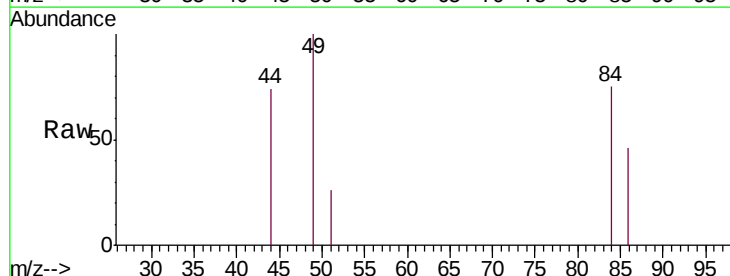
Ion Ratio Lower Upper

84 100

49 100.5 114.9 172.3#

51 34.2 35.8 53.8#

86 61.4 51.3 76.9



Abundance Ion 83.90 (83.60 to 84.60): VU026969.D (-462) (-)

Ion 48.90 (48.60 to 49.60): VU026969.D (-462) (-)

Ion 50.90 (50.60 to 51.60): VU026969.D (-462) (-)

Ion 85.90 (85.60 to 86.60): VU026969.D (-462) (-)

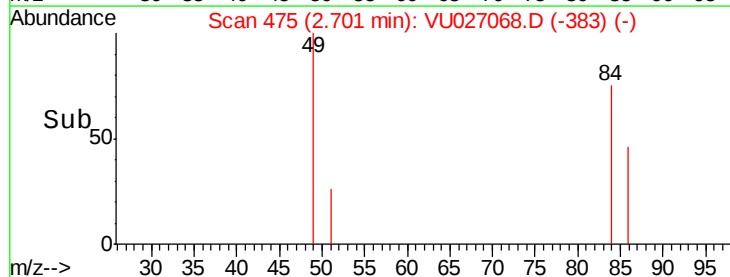
600

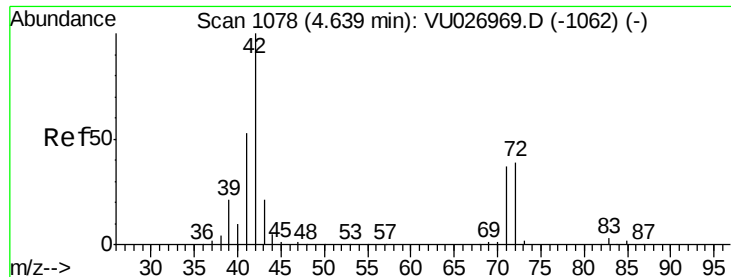
400

200

0

Time-->

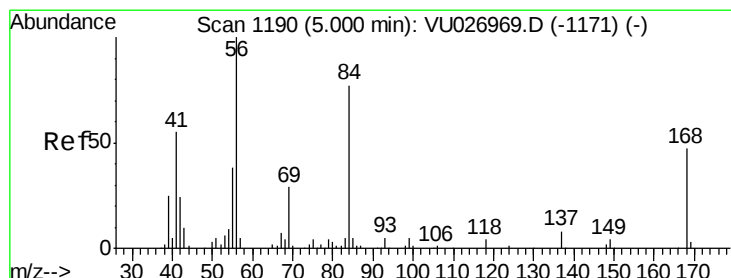
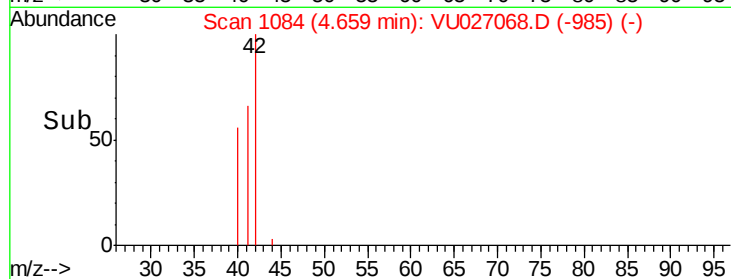
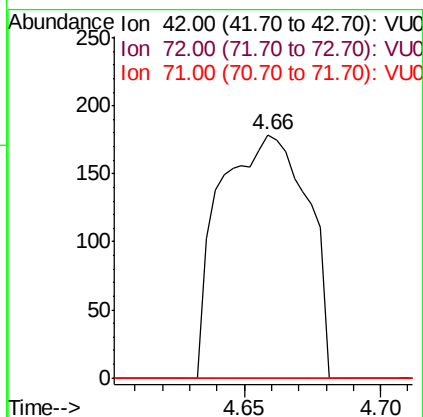
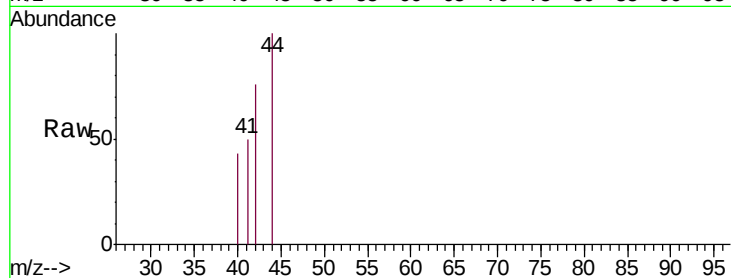




#29
Tetrahydrofuran
Concen: 0.365 ug/l
RT: 4.66 min Scan# 1084
Delta R.T. 0.02 min
Lab File: VU027068.D
Acq: 23 Sep 2018 13:46

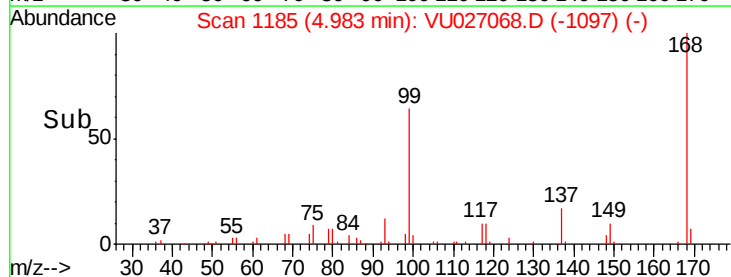
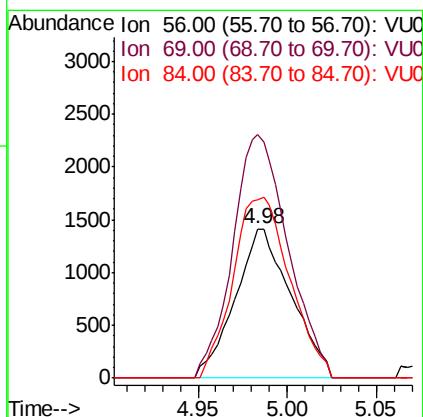
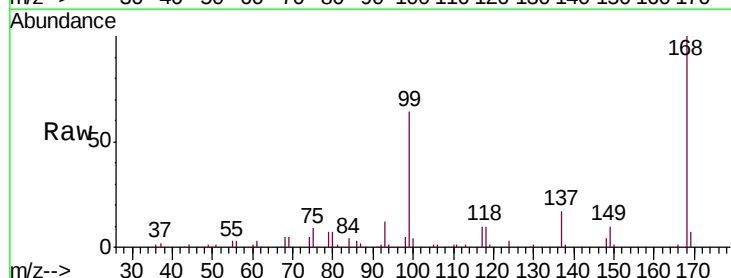
Instrument :
MSVOA_U
ClientSampleId :
TB02-20180914

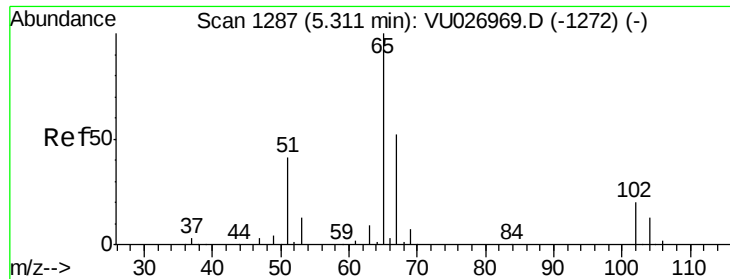
Tgt Ion: 42 Resp: 398
Ion Ratio Lower Upper
42 100
72 0.0 31.7 47.5#
71 0.0 29.6 44.4#



#31
Cyclohexane
Concen: 0.396 ug/l
RT: 4.98 min Scan# 1185
Delta R.T. -0.02 min
Lab File: VU027068.D
Acq: 23 Sep 2018 13:46

Tgt Ion: 56 Resp: 3093
Ion Ratio Lower Upper
56 100
69 163.2 23.0 34.4#
84 119.2 61.4 92.2#

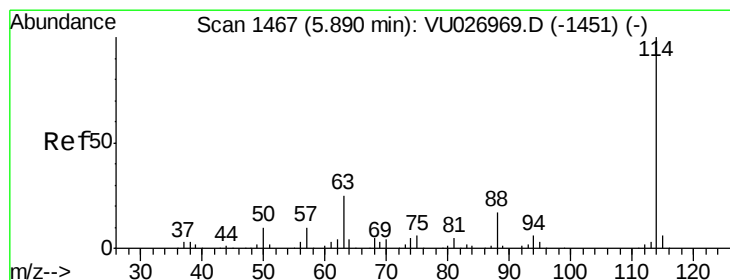
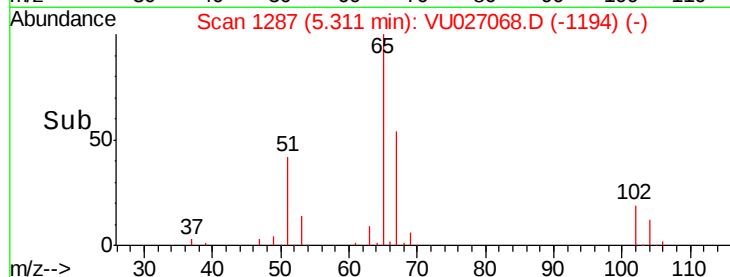
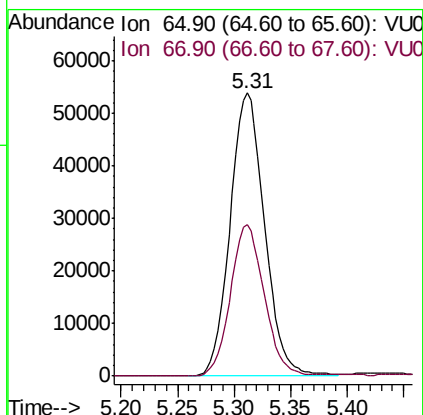
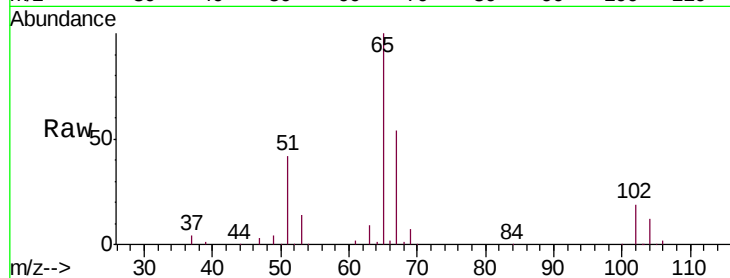




#33
 1,2-Dichloroethane-d4
 Concen: 53.266 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. -0.00 min
 Lab File: VU027068.D
 Acq: 23 Sep 2018 13:46

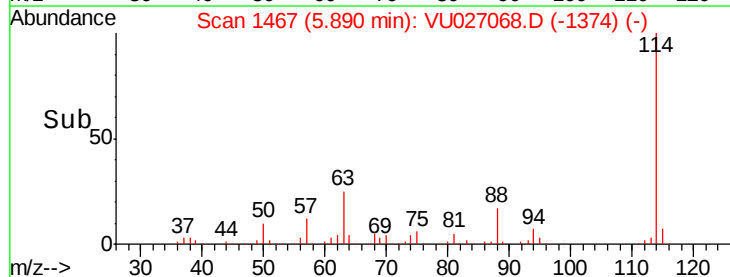
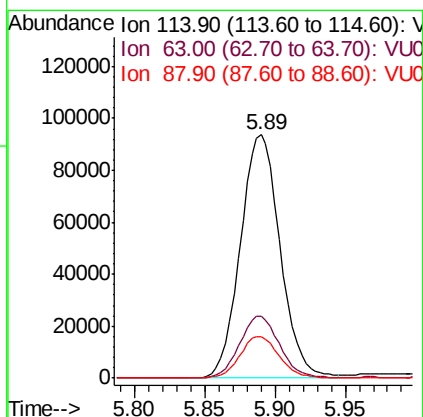
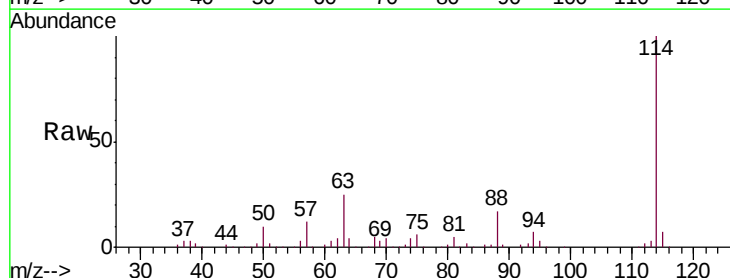
Instrument :
 MSVOA_U
 ClientSampleId :
 TB02-20180914

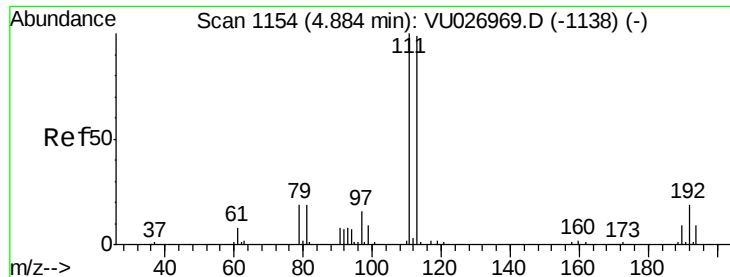
Tgt Ion: 65 Resp: 114346
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1467
 Delta R.T. -0.00 min
 Lab File: VU027068.D
 Acq: 23 Sep 2018 13:46

Tgt Ion: 114 Resp: 184834
 Ion Ratio Lower Upper
 114 100
 63 25.3 0.0 49.2
 88 17.0 0.0 33.8

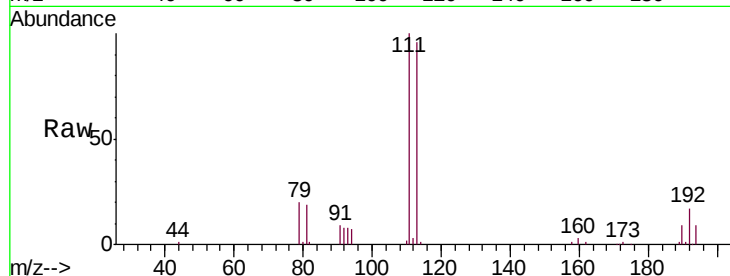




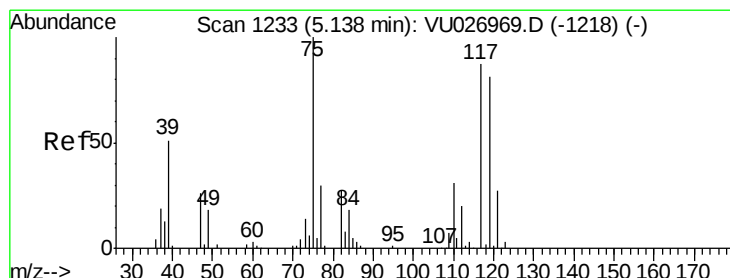
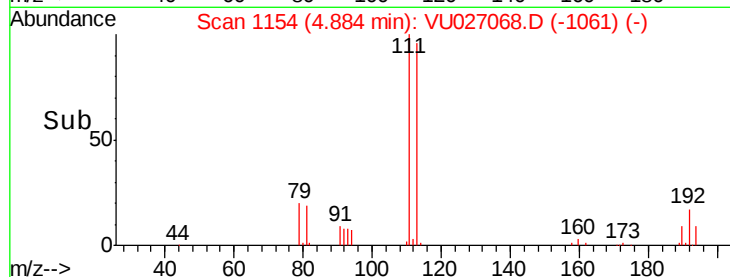
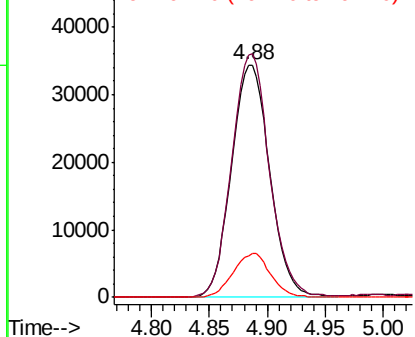
#35
 Dibromofluoromethane
 Concen: 49.393 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. -0.00 min
 Lab File: VU027068.D
 Acq: 23 Sep 2018 13:46

Instrument :
 MSVOA_U
 ClientSampleId :
 TB02-20180914

Tgt Ion:113 Resp: 79135
 Ion Ratio Lower Upper
 113 100
 111 103.2 82.2 123.4
 192 18.4 15.2 22.8

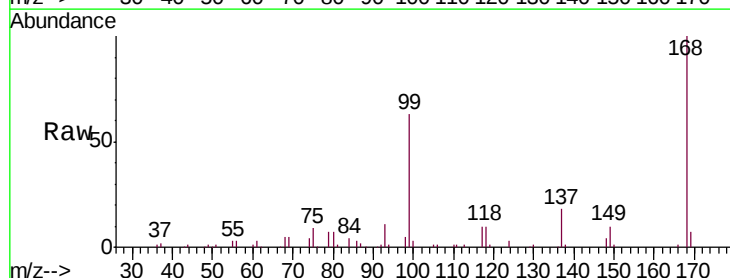


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

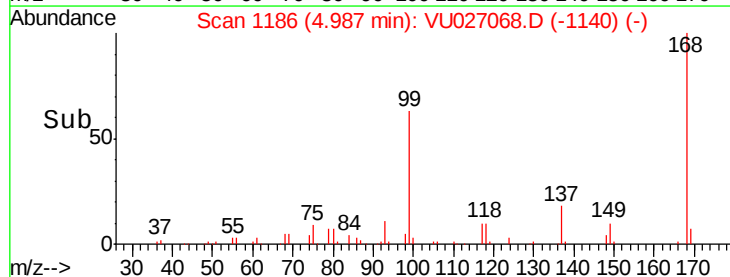
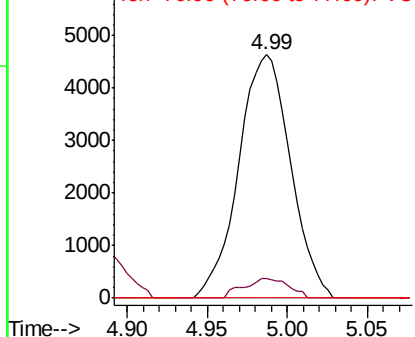


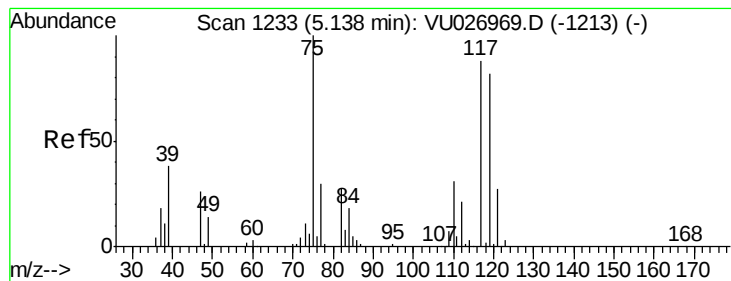
#36
 1,1-Dichloropropene
 Concen: 4.174 ug/l
 RT: 4.99 min Scan# 1186
 Delta R.T. -0.15 min
 Lab File: VU027068.D
 Acq: 23 Sep 2018 13:46

Tgt Ion: 75 Resp: 10297
 Ion Ratio Lower Upper
 75 100
 110 7.1 16.1 48.2#
 77 0.0 24.6 36.8#



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: 4.912 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.15 min

Lab File: VU027068.D

Acq: 23 Sep 2018 13:46

Instrument :

MSVOA_U

ClientSampleId :

TB02-20180914

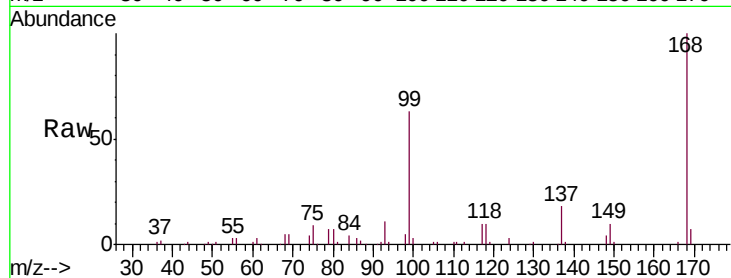
Tgt Ion:117 Resp: 11531

Ion Ratio Lower Upper

117 100

119 7.3 74.4 111.6#

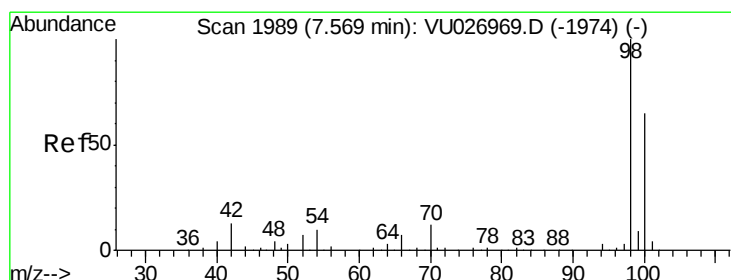
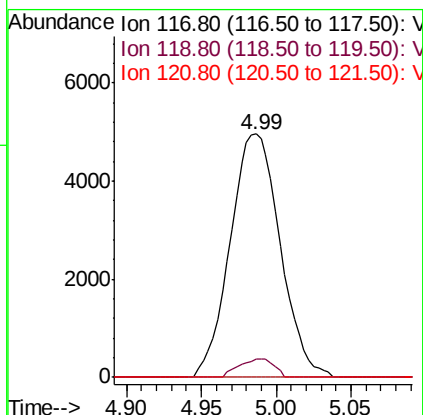
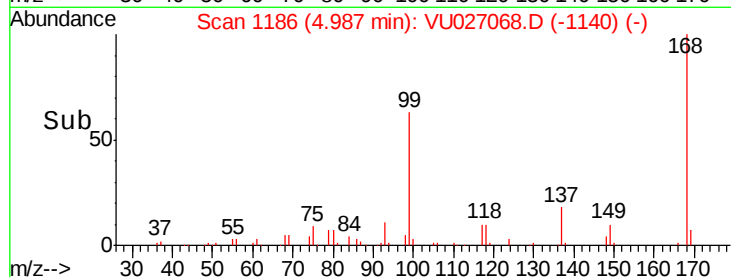
121 0.0 24.2 36.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 48.108 ug/l

RT: 7.57 min Scan# 1989

Delta R.T. -0.00 min

Lab File: VU027068.D

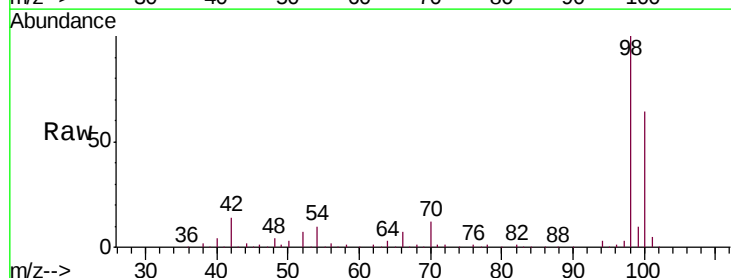
Acq: 23 Sep 2018 13:46

Tgt Ion: 98 Resp: 293737

Ion Ratio Lower Upper

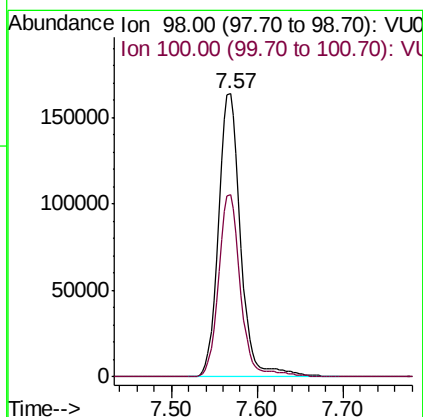
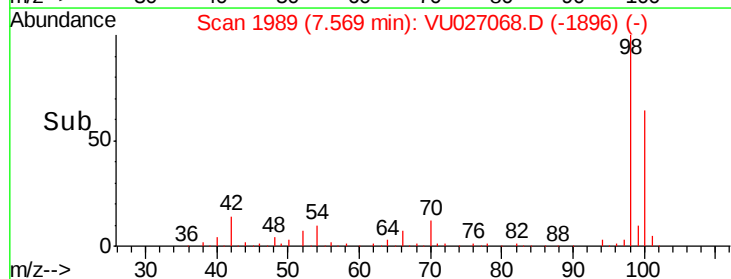
98 100

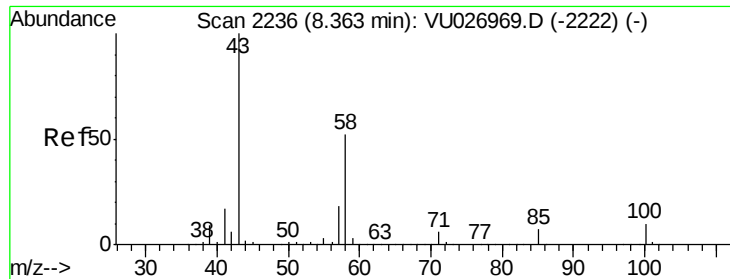
100 63.8 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU

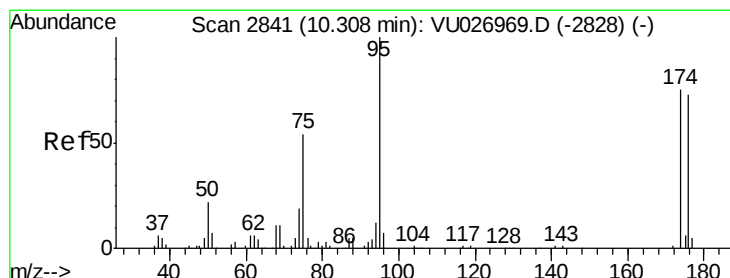
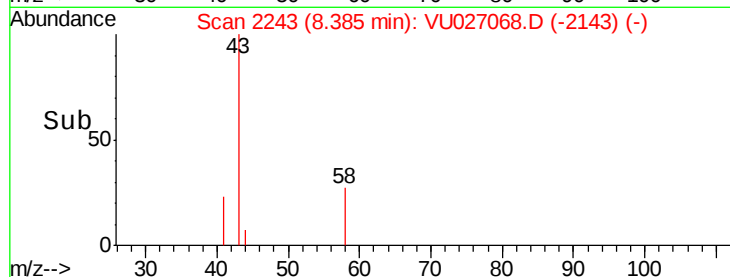
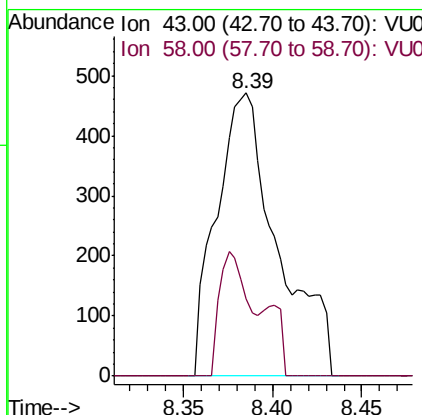
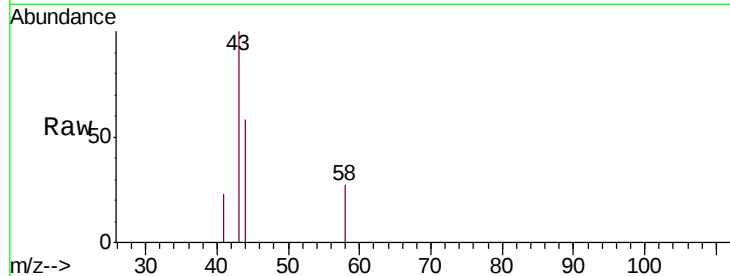




#59
2-Hexanone
Concen: 0.438 ug/l
RT: 8.39 min Scan# 2243
Delta R.T. 0.02 min
Lab File: VU027068.D
Acq: 23 Sep 2018 13:46

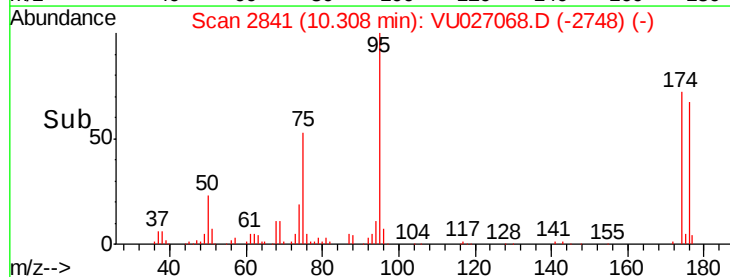
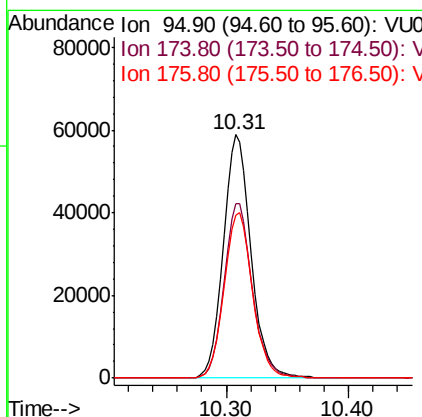
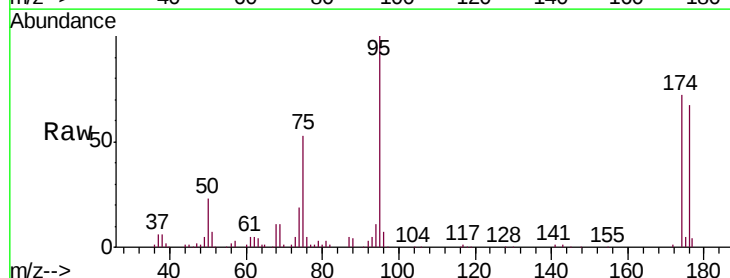
Instrument :
MSVOA_U
ClientSampleId :
TB02-20180914

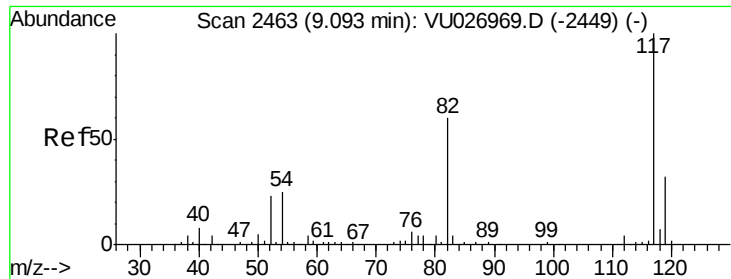
Tgt Ion: 43 Resp: 1123
Ion Ratio Lower Upper
43 100
58 20.7 26.1 78.2#



#62
4-Bromofluorobenzene
Concen: 44.821 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.00 min
Lab File: VU027068.D
Acq: 23 Sep 2018 13:46

Tgt Ion: 95 Resp: 93904
Ion Ratio Lower Upper
95 100
174 73.1 0.0 150.2
176 69.8 0.0 145.2

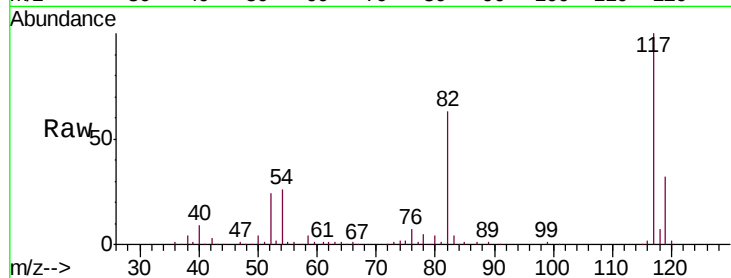




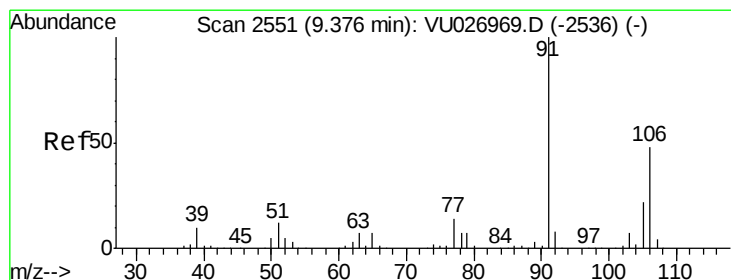
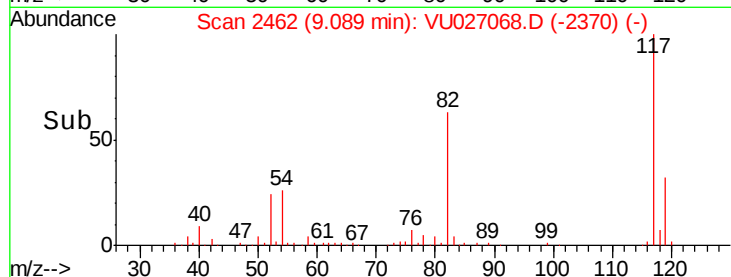
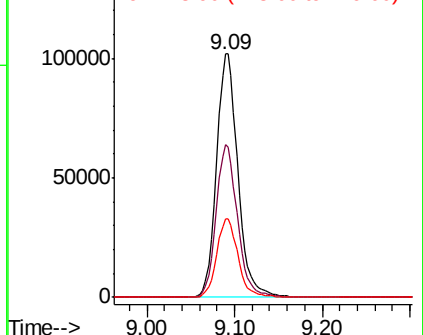
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU027068.D
Acq: 23 Sep 2018 13:46

Instrument :
MSVOA_U
ClientSampleId :
TB02-20180914

Tgt Ion:117 Resp: 172799
Ion Ratio Lower Upper
117 100
82 62.9 48.0 72.0
119 32.1 25.8 38.8

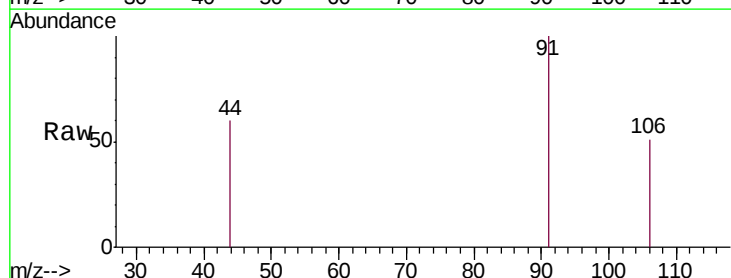


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

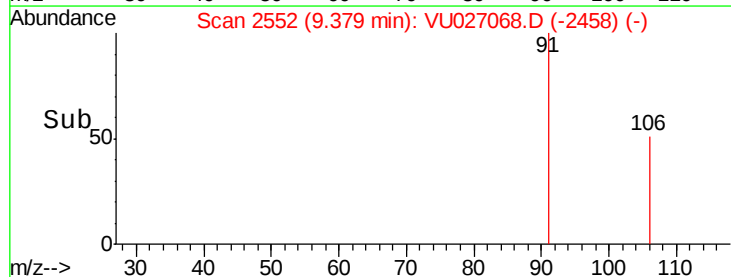
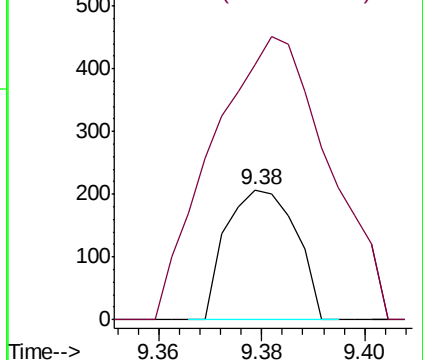


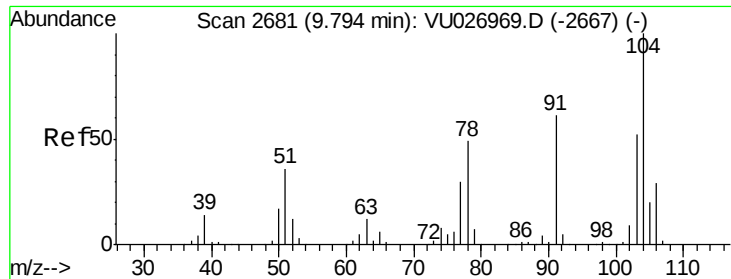
#68
m/p-Xylenes
Concen: 1.563 ug/l
RT: 9.38 min Scan# 2552
Delta R.T. 0.00 min
Lab File: VU027068.D
Acq: 23 Sep 2018 13:46

Tgt Ion:106 Resp: 193
Ion Ratio Lower Upper
106 100
91 364.2 166.5 249.7#



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

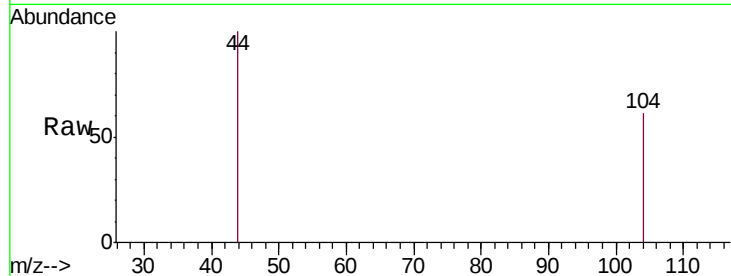




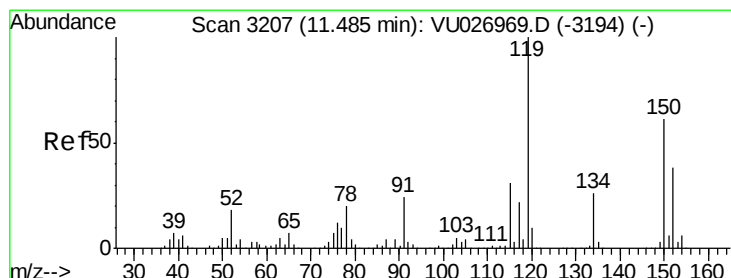
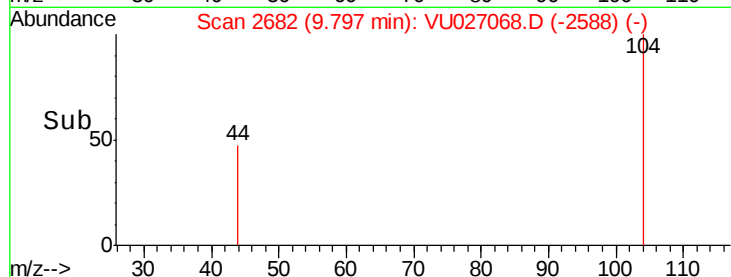
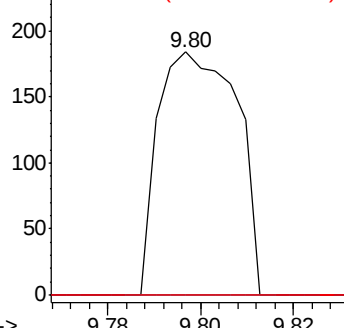
#70
Styrene
Concen: 1.852 ug/l
RT: 9.80 min Scan# 2682
Delta R.T. 0.00 min
Lab File: VU027068.D
Acq: 23 Sep 2018 13:46

Instrument :
MSVOA_U
ClientSampleId :
TB02-20180914

Tgt Ion:104 Resp: 217
Ion Ratio Lower Upper
104 100
78 0.0 43.0 64.4#
103 0.0 44.1 66.1#

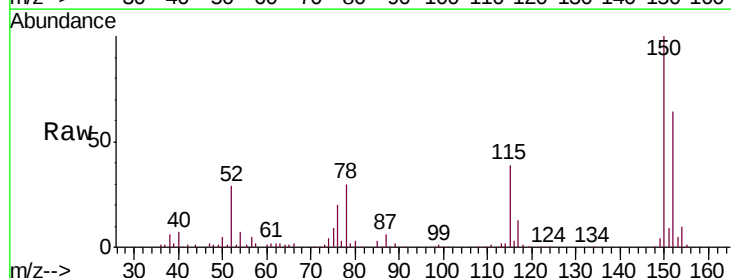


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): V
Ion 103.00 (102.70 to 103.70): V

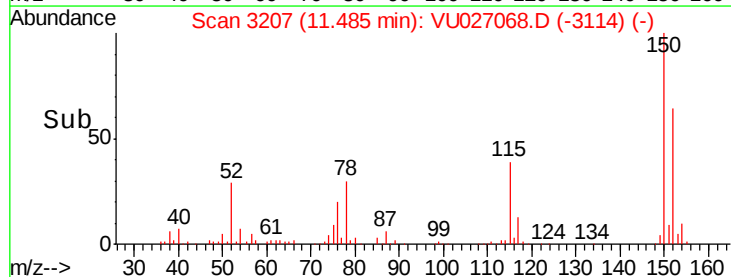
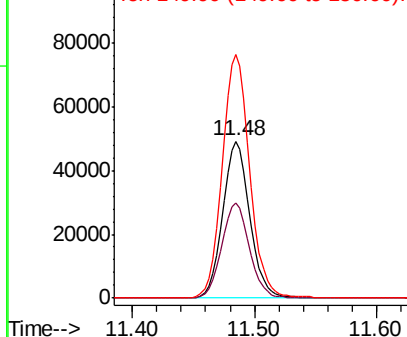


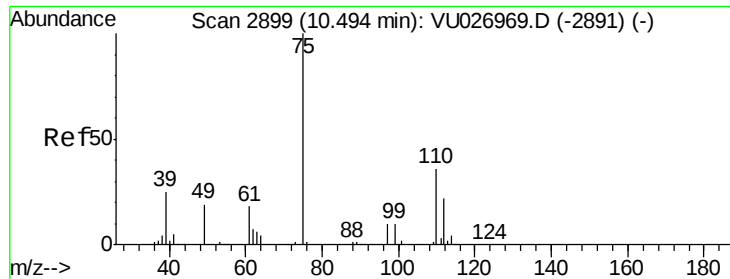
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3207
Delta R.T. -0.00 min
Lab File: VU027068.D
Acq: 23 Sep 2018 13:46

Tgt Ion:152 Resp: 76539
Ion Ratio Lower Upper
152 100
115 62.1 44.9 134.5
150 157.5 0.0 355.8



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: 21.963 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027068.D

Acq: 23 Sep 2018 13:46

Instrument :

MSVOA_U

ClientSampleId :

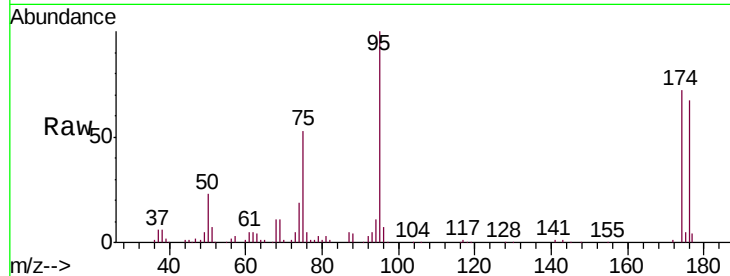
TB02-20180914

Tgt Ion: 75 Resp: 51069

Ion Ratio Lower Upper

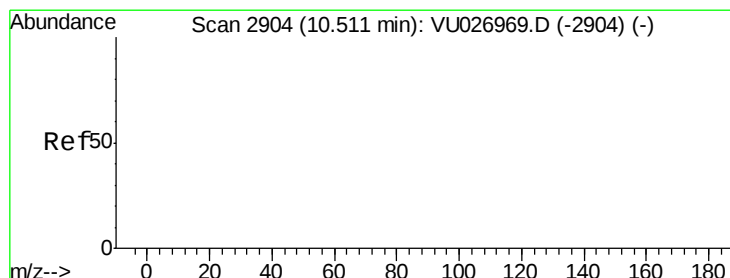
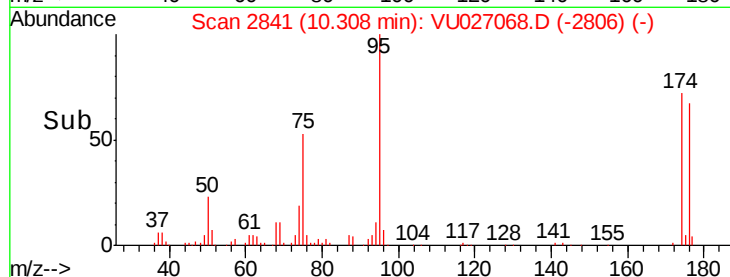
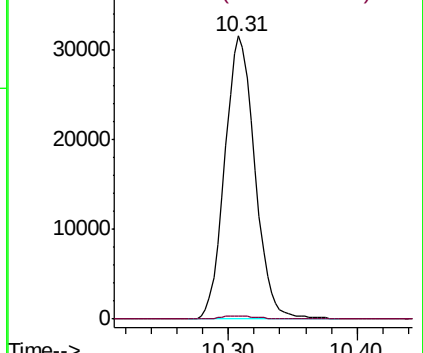
75 100

77 1.3 20.9 62.8#



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: 70.285 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.21 min

Lab File: VU027068.D

Acq: 23 Sep 2018 13:46

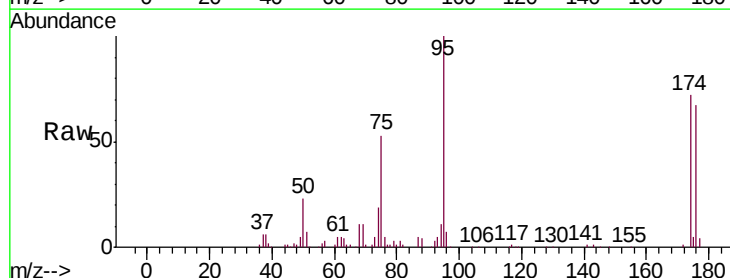
Tgt Ion: 75 Resp: 51069

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

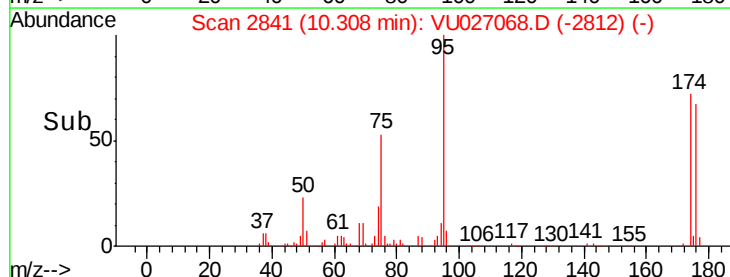
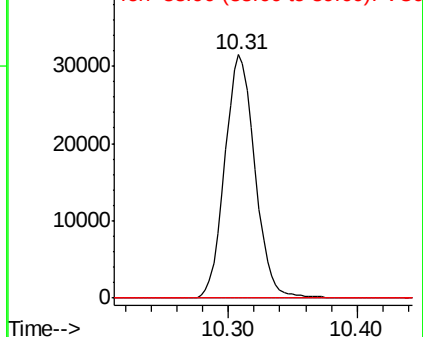
89 0.0 0.0 0.0

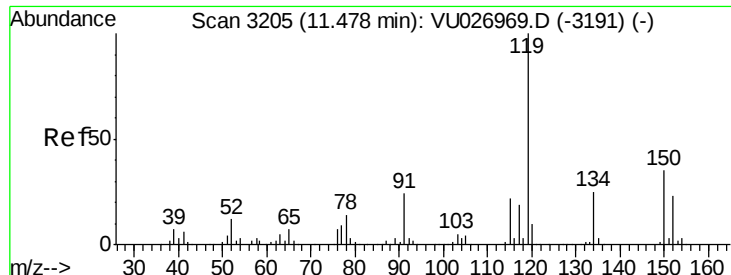


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

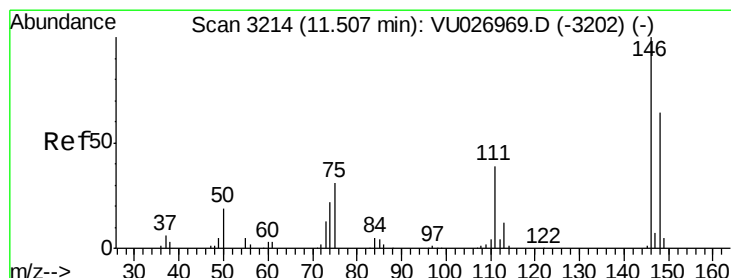
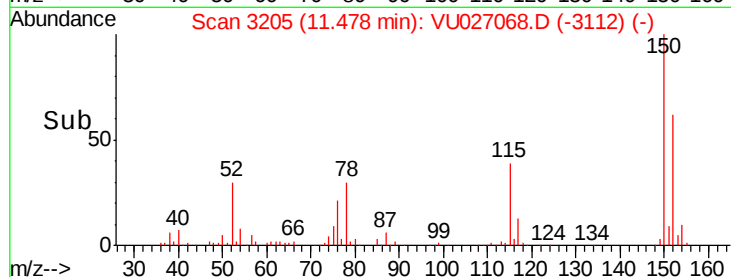
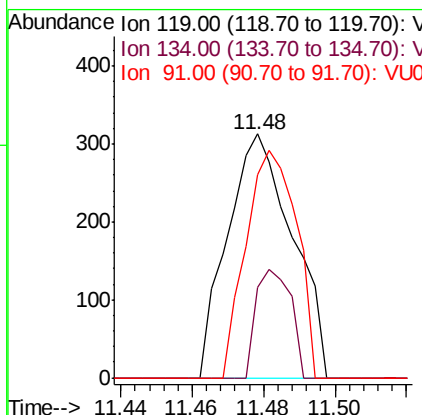
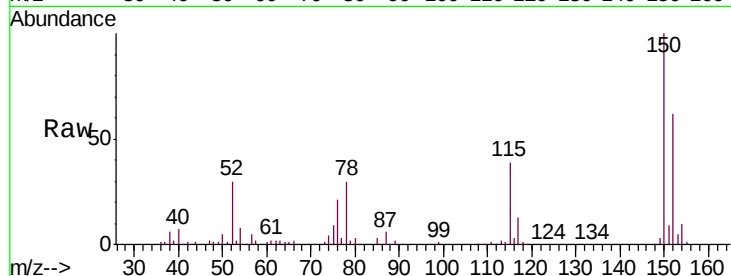




#86
 p-Isopropyltoluene
 Concen: 0.998 ug/l
 RT: 11.48 min Scan# 3205
 Delta R.T. 0.00 min
 Lab File: VU027068.D
 Acq: 23 Sep 2018 13:46

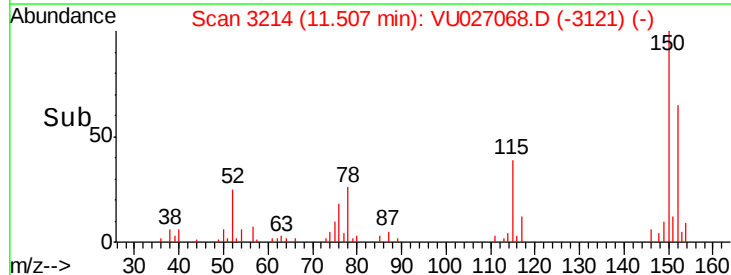
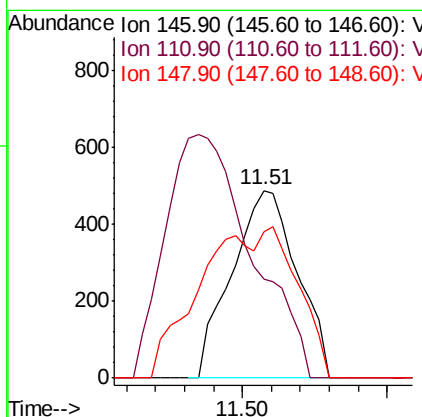
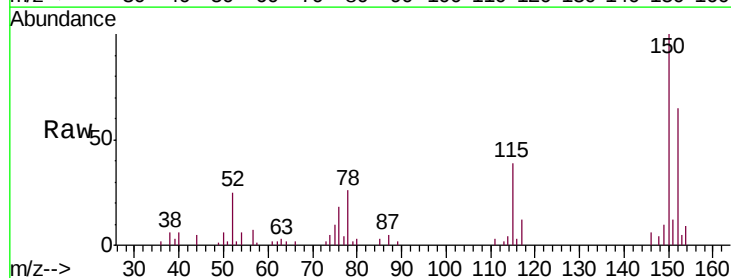
Instrument :
 MSVOA_U
 ClientSampleId :
 TB02-20180914

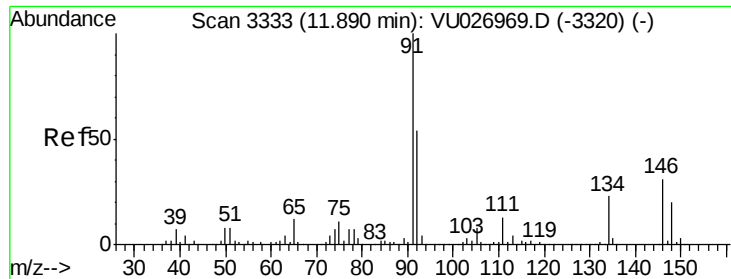
Tgt Ion:119 Resp: 393
 Ion Ratio Lower Upper
 119 100
 134 23.9 12.8 38.3
 91 72.5 12.3 36.8#



#88
 1,4-Dichlorobenzene
 Concen: 0.264 ug/l
 RT: 11.51 min Scan# 3214
 Delta R.T. -0.00 min
 Lab File: VU027068.D
 Acq: 23 Sep 2018 13:46

Tgt Ion:146 Resp: 763
 Ion Ratio Lower Upper
 146 100
 111 0.0 20.3 60.9#
 148 71.2 31.9 95.9



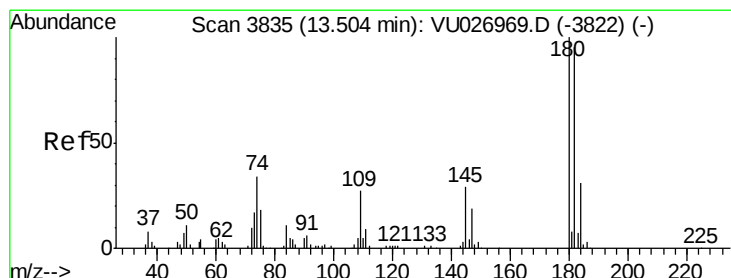
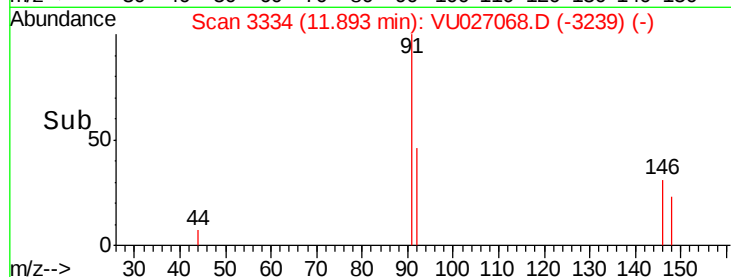
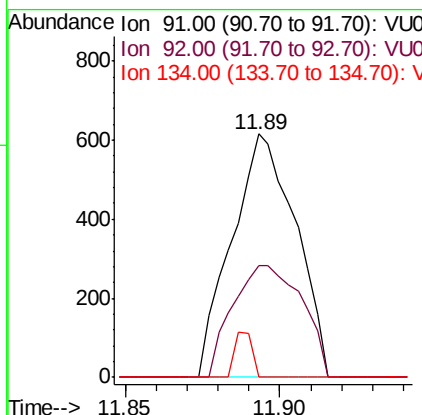
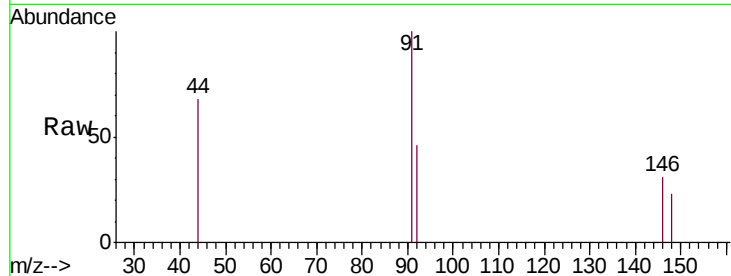


#89
 n-Butylbenzene
 Concen: 2.552 ug/l
 RT: 11.89 min Scan# 3334
 Delta R.T. 0.00 min
 Lab File: VU027068.D
 Acq: 23 Sep 2018 13:46

Instrument :
 MSVOA_U
 ClientSampleId :
 TB02-20180914

Tgt Ion: 91 Resp: 887

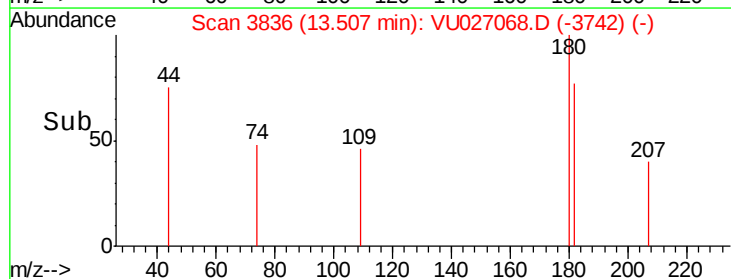
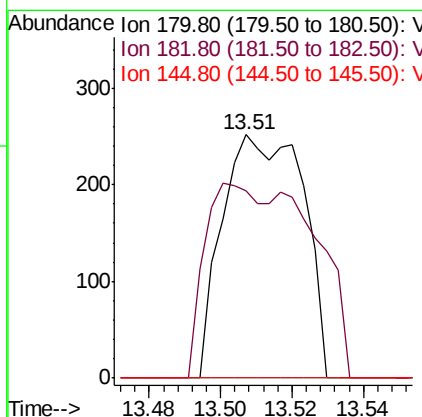
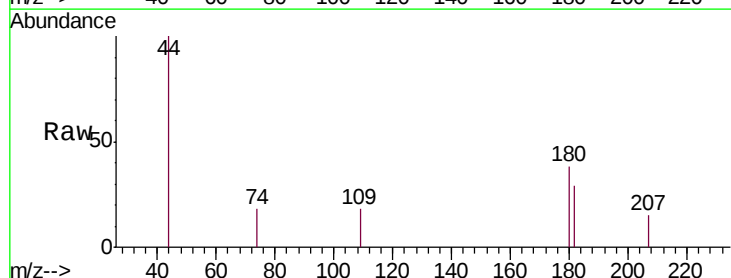
Ion	Ratio	Lower	Upper
91	100		
92	49.9	27.1	81.2
134	4.8	11.7	35.0#

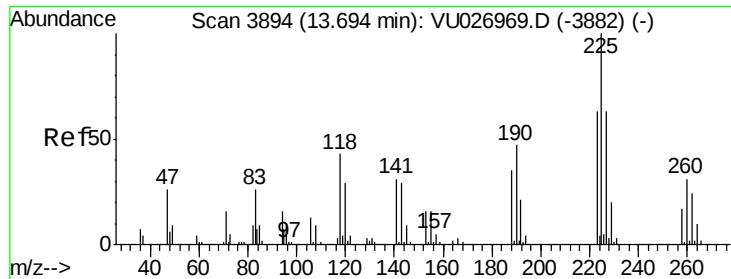


#93
 1,2,4-Trichlorobenzene
 Concen: 0.242 ug/l
 RT: 13.51 min Scan# 3836
 Delta R.T. 0.00 min
 Lab File: VU027068.D
 Acq: 23 Sep 2018 13:46

Tgt Ion: 180 Resp: 392

Ion	Ratio	Lower	Upper
180	100		
182	52.6	47.4	142.2
145	0.0	14.9	44.5#





#94

Hexachlorobutadiene

Concen: 0.208 ug/l

RT: 13.69 min Scan# 3894

Delta R.T. -0.00 min

Lab File: VU027068.D

Acq: 23 Sep 2018 13:46

Instrument :

MSVOA_U

ClientSampleId :

TB02-20180914

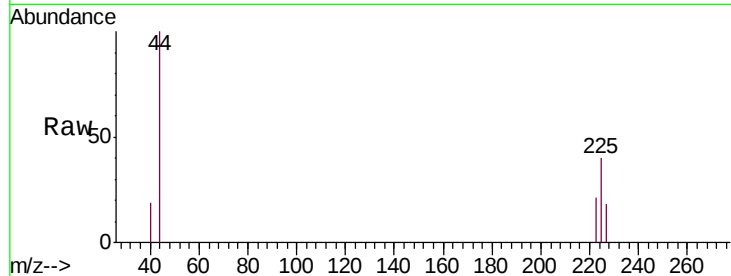
Tgt Ion:225 Resp: 178

Ion Ratio Lower Upper

225 100

223 39.3 31.9 95.7

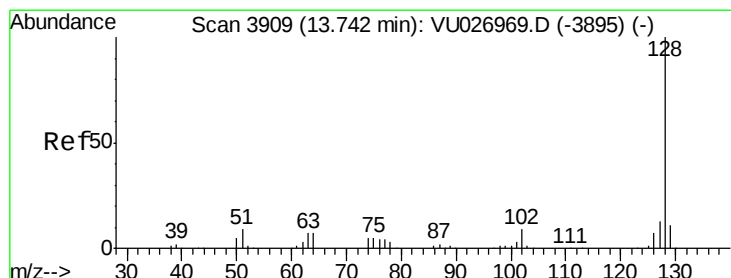
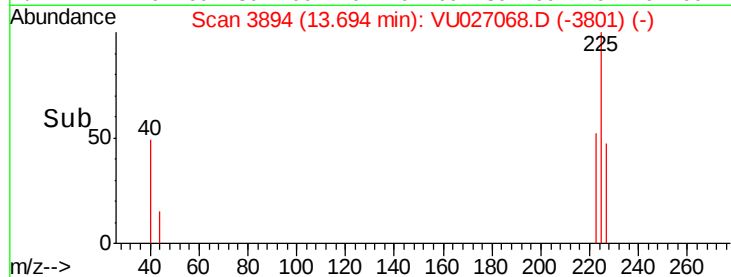
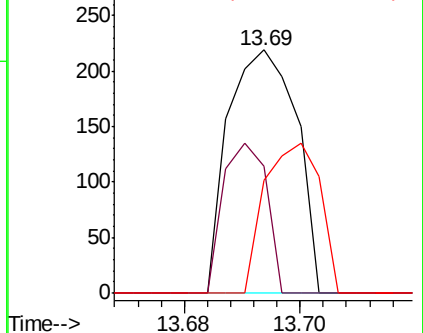
227 50.6 32.1 96.5



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



#95

Naphthalene

Concen: 1.997 ug/l

RT: 13.75 min Scan# 3912

Delta R.T. 0.01 min

Lab File: VU027068.D

Acq: 23 Sep 2018 13:46

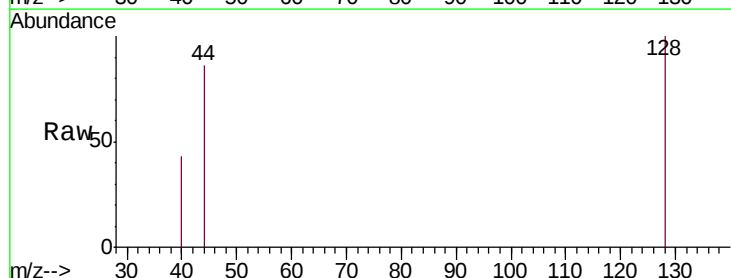
Tgt Ion:128 Resp: 2018

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

129 0.0 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

