

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU102318\
 Data File : VU027758.D
 Acq On : 23 Oct 2018 11:21
 Operator : MD/SY
 Sample : J5026-06DL 4X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 1721DL

Quant Time: Oct 24 05:42:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U0102318DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Tue Oct 23 09:12:15 2018
 Response via : Initial Calibration

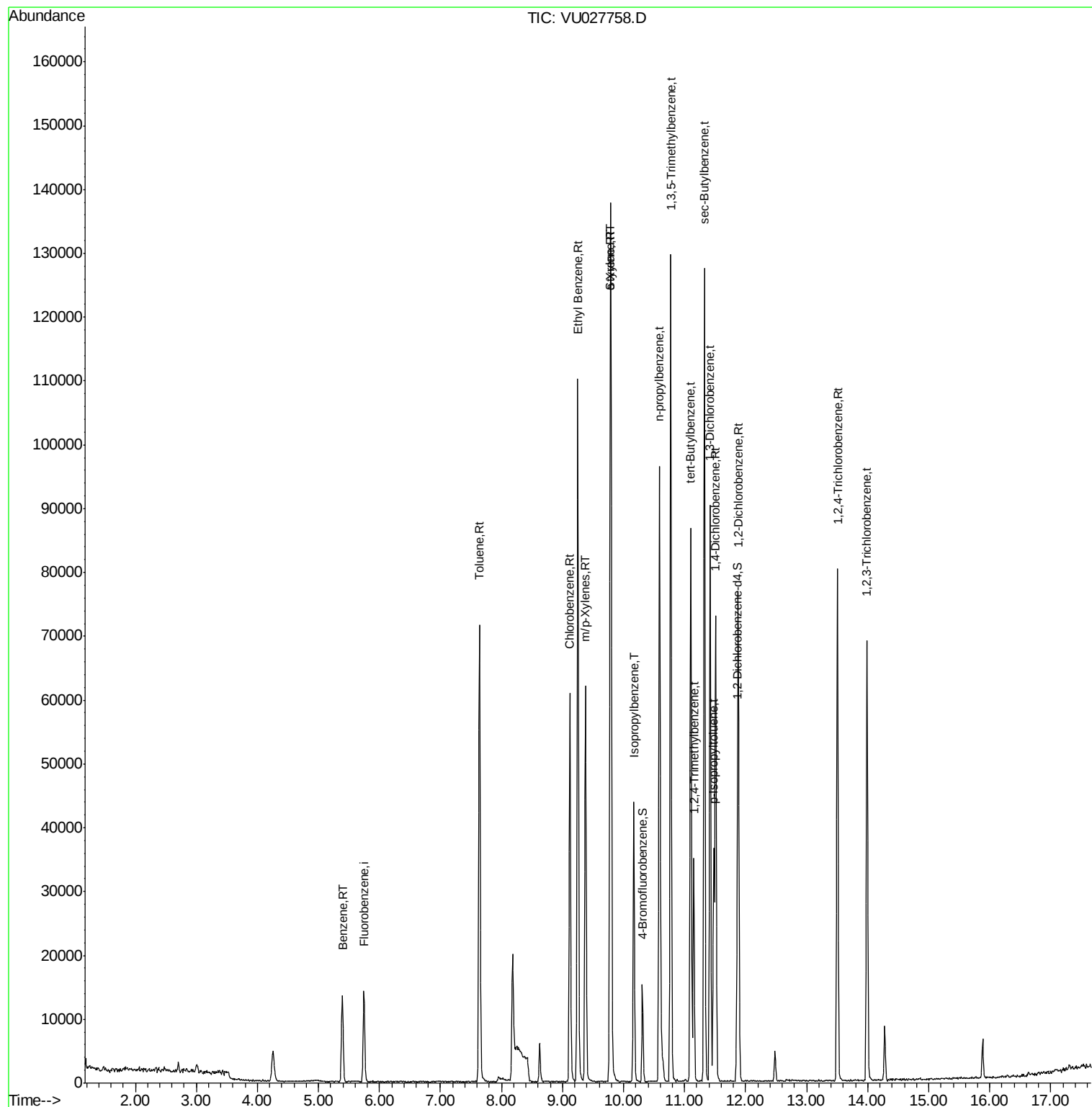
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	5.75	96	13315	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.31	95	5123	1.01	ug/l	0.00
Spiked Amount 1.000			Recovery	=	101.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	4837	1.01	ug/l	0.00
Spiked Amount 1.000			Recovery	=	101.00%	
Target Compounds					Ovalue	
35) Benzene	5.39	78	12647	0.820	ug/l	100
49) Toluene	7.64	92	29320	3.202	ug/l	100
59) Chlorobenzene	9.12	112	30971	3.156	ug/l	99
63) Ethyl Benzene	9.25	91	77964	4.194	ug/l	99
64) m/p-Xylenes	9.38	106	16840	2.539	ug/l	99
65) o-Xylene	9.78	106	16528	2.513	ug/l	99
66) Styrene	9.79	104	47499	4.377	ug/l	96
69) Isopropylbenzene	10.17	105	28118	1.562	ug/l	99
73) n-propylbenzene	10.59	120	15751	3.392	ug/l	95
75) 1,3,5-Trimethylbenzene	10.77	105	68452	4.557	ug/l	99
77) tert-Butylbenzene	11.10	119	39903	2.701	ug/l	92
78) 1,2,4-Trimethylbenzene	11.15	105	18660	1.209	ug/l	100
79) sec-Butylbenzene	11.32	105	84289	4.308	ug/l	99
81) p-Isopropyltoluene	11.48	119	19613	1.226	ug/l	99
82) 1,3-Dichlorobenzene	11.42	146	34617	4.361	ug/l	99
83) 1,4-Dichlorobenzene	11.51	146	28466	3.579	ug/l	98
85) 1,2-Dichlorobenzene	11.88	146	28289	3.735	ug/l	99
87) 1,2,4-Trichlorobenzene	13.50	180	24353	4.425	ug/l	99
90) 1,2,3-Trichlorobenzene	13.99	180	21143	4.037	ug/l	99
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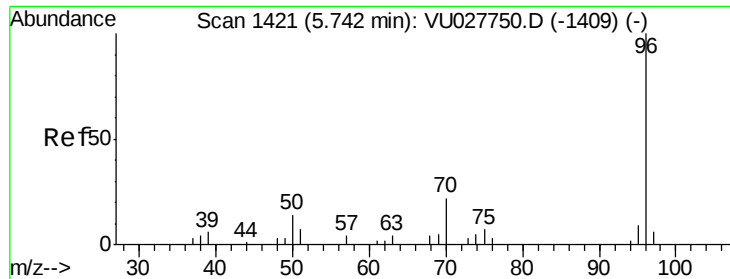
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Oct 23 09:12:15 2018
Response via : Initial Calibration





#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.75 min Scan# 1422

Delta R.T. 0.00 min

Lab File: VU027758.D

Acq: 23 Oct 2018 11:21

Instrument :

MSVOA_U

ClientSampleID :

1721DL

Tot Ion: 96 Resp: 13315

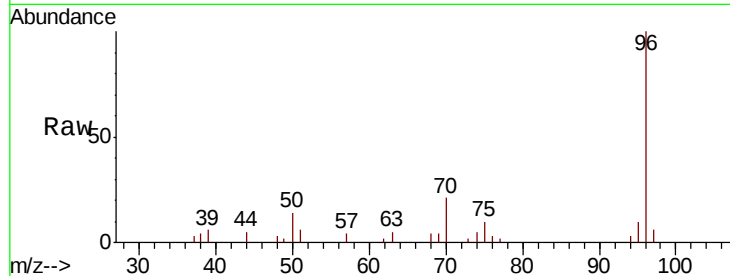
Ion Ratio Lower Upper

96 100

70 20.7 17.7 26.5

95 9.6 7.0 10.6

97 4.9 0.0 0.0#

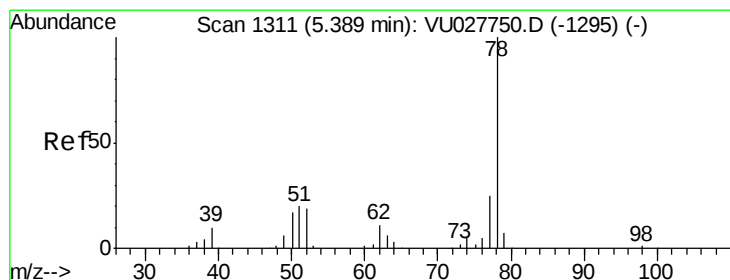
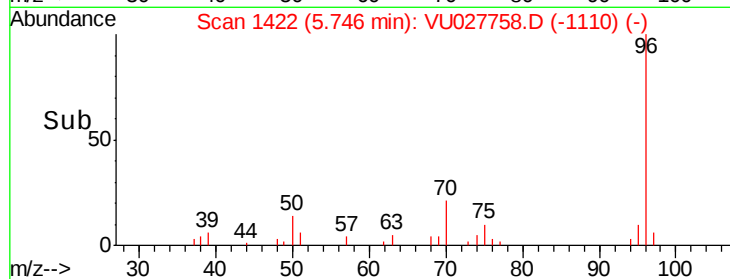
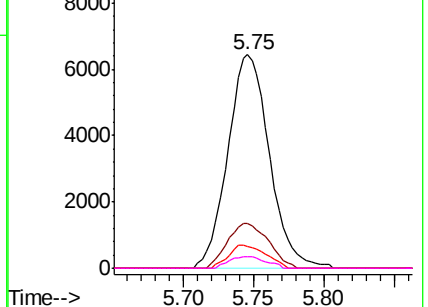


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0



#35

Benzene

Concen: 0.820 ug/l

RT: 5.39 min Scan# 1312

Delta R.T. 0.00 min

Lab File: VU027758.D

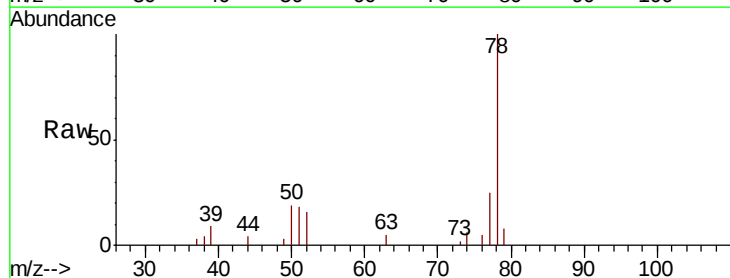
Acq: 23 Oct 2018 11:21

Tgt Ion: 78 Resp: 12647

Ion Ratio Lower Upper

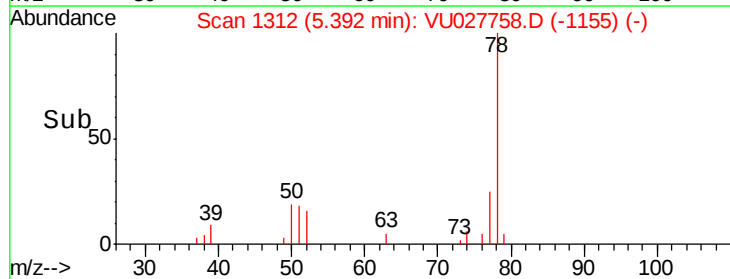
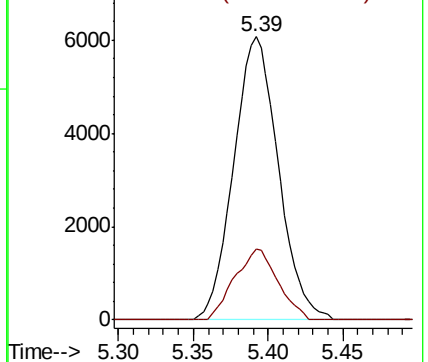
78 100

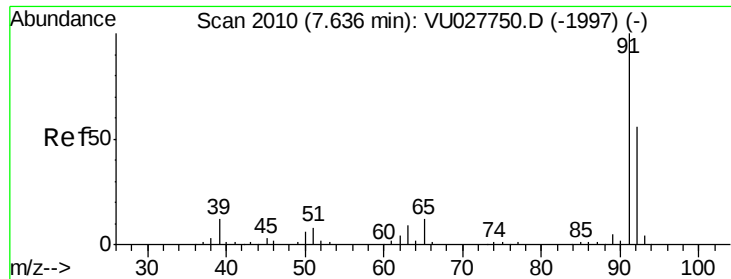
77 25.1 19.9 29.9



Abundance Ion 78.10 (77.80 to 78.80): VU0

Ion 77.00 (76.70 to 77.70): VU0





#49

Toluene

Concen: 3.202 ug/l

RT: 7.64 min Scan# 2010

Delta R.T. 0.00 min

Lab File: VU027758.D

Acq: 23 Oct 2018 11:21

Instrument :

MSVOA_U

ClientSampleId :

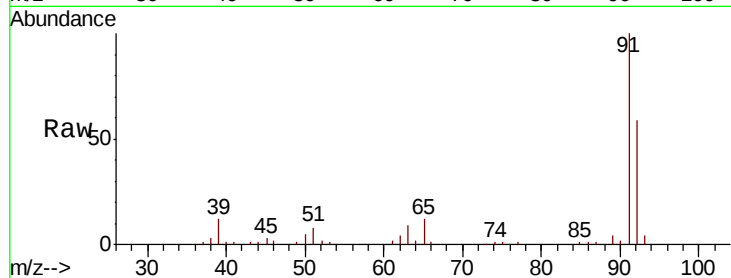
1721DL

Tot Ion: 92 Resp: 29320

Ion Ratio Lower Upper

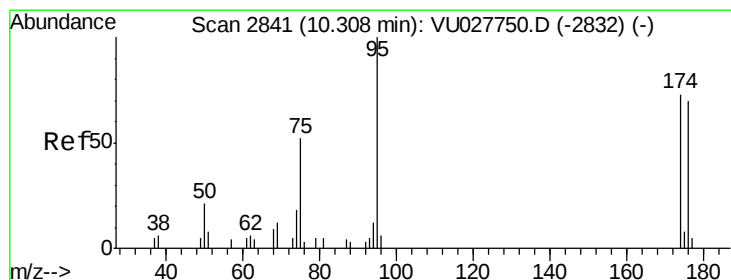
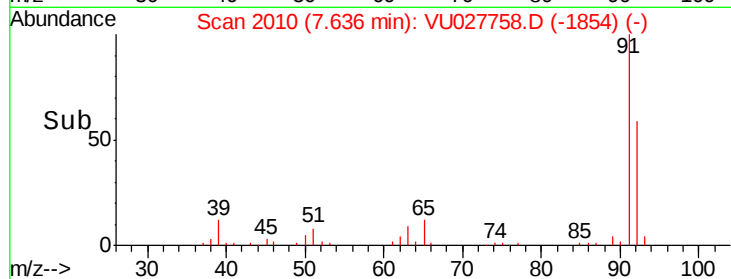
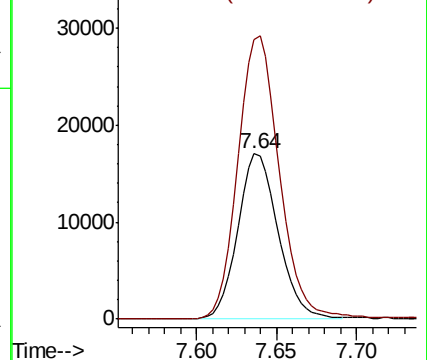
92 100

91 176.8 141.8 212.8



Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0



#57

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 10.31 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VU027758.D

Acq: 23 Oct 2018 11:21

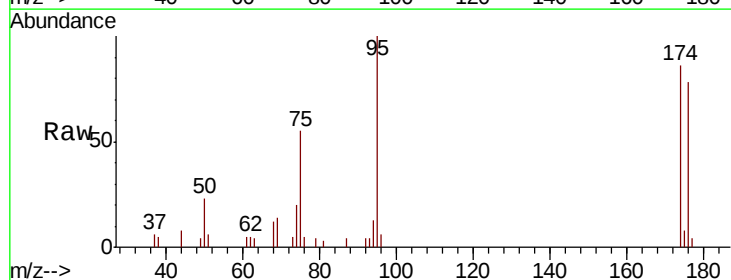
Tgt Ion: 95 Resp: 5123

Ion Ratio Lower Upper

95 100

174 84.0 64.5 96.7

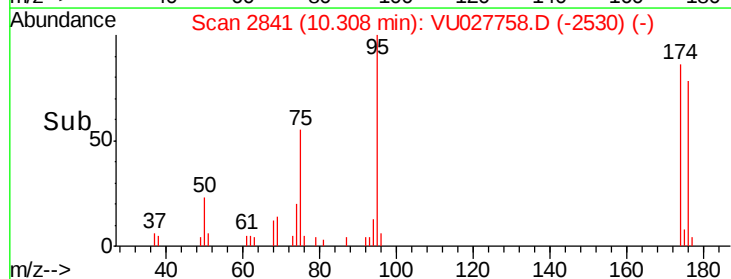
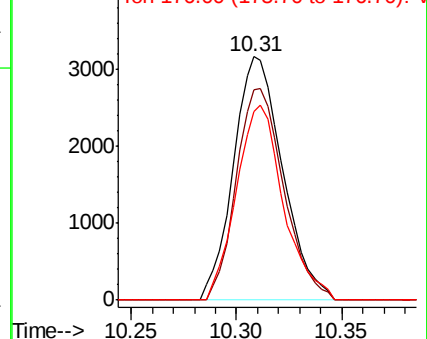
176 76.6 58.3 87.5

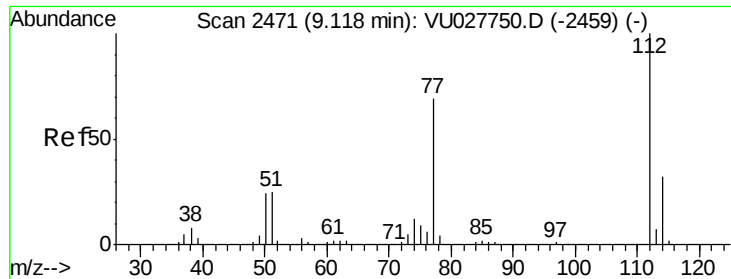


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

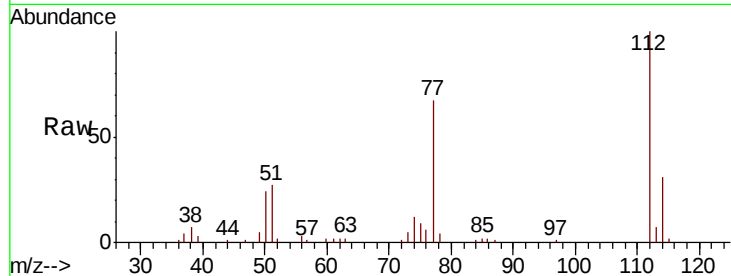




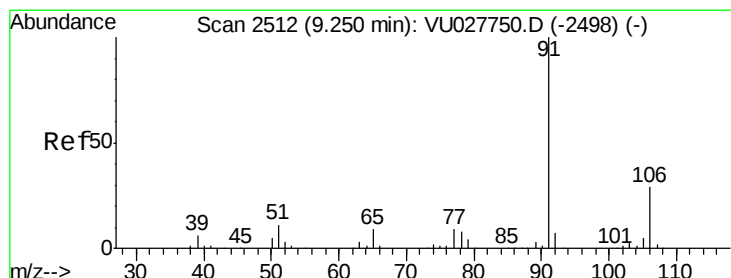
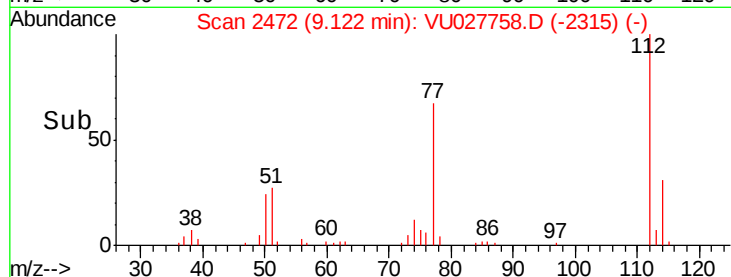
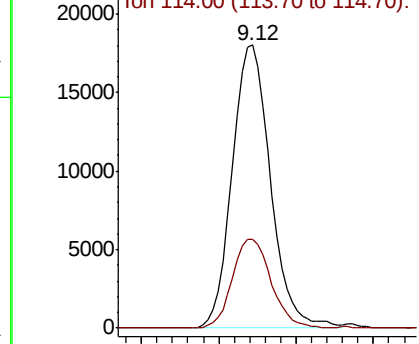
#59
Chlorobenzene
Concen: 3.156 ug/l
RT: 9.12 min Scan# 2472
Delta R.T. 0.00 min
Lab File: VU027758.D
Acq: 23 Oct 2018 11:21

Instrument :
MSVOA_U
ClientSampleId :
1721DL

Tot Ion:112 Resp: 30971
Ion Ratio Lower Upper
112 100
114 31.3 25.4 38.0

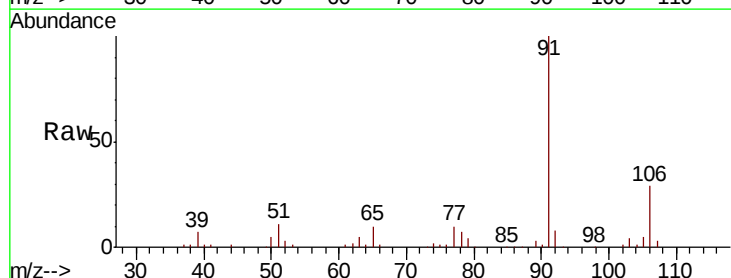


Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V

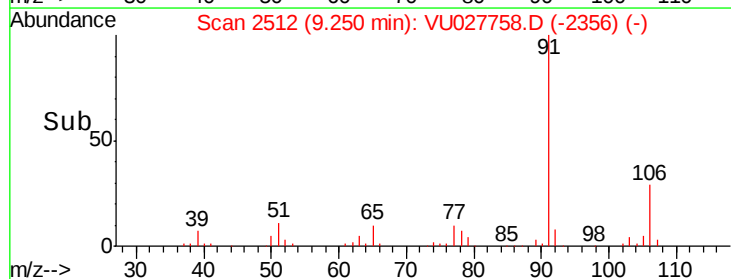
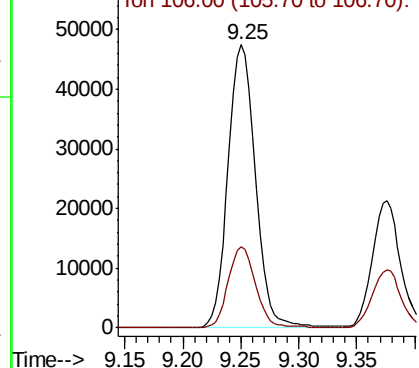


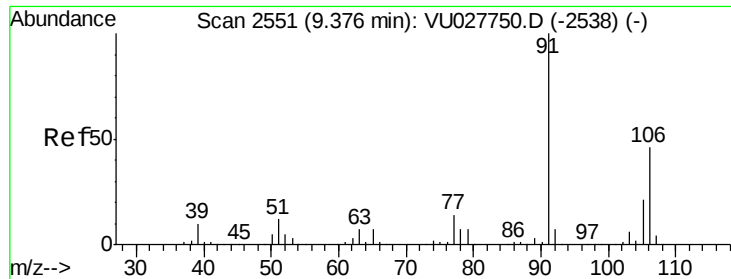
#63
Ethyl Benzene
Concen: 4.194 ug/l
RT: 9.25 min Scan# 2512
Delta R.T. 0.00 min
Lab File: VU027758.D
Acq: 23 Oct 2018 11:21

Tgt Ion: 91 Resp: 77964
Ion Ratio Lower Upper
91 100
106 28.9 23.5 35.3



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





#64

m/p-Xylenes

Concen: 2.539 ug/l

RT: 9.38 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VU027758.D

Acq: 23 Oct 2018 11:21

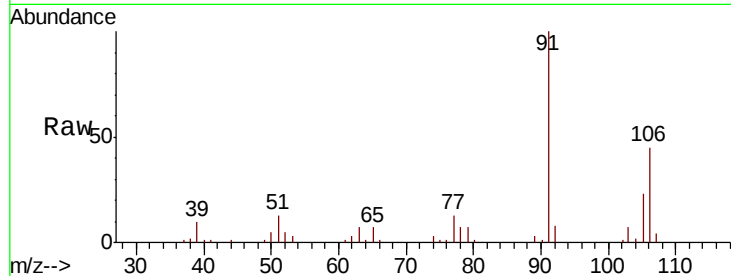
Instrument :
MSVOA_U
ClientSampleId :
1721DL

Tot Ion:106 Resp: 16840

Ion Ratio Lower Upper

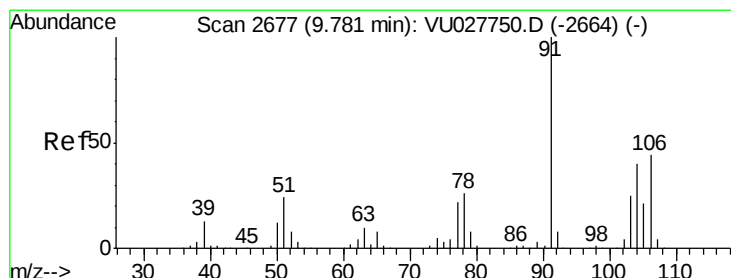
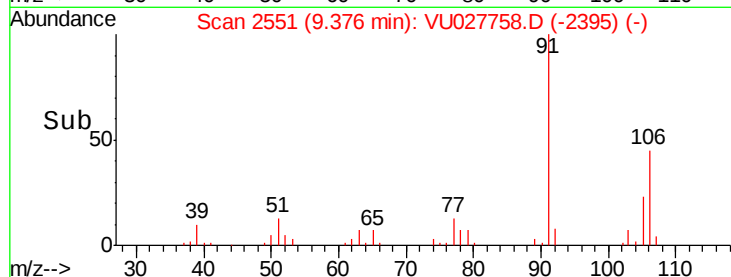
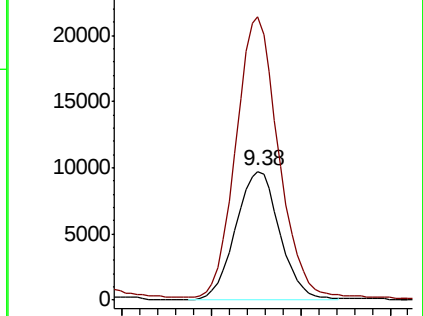
106 100

91 218.6 173.3 259.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#65

o-Xylene

Concen: 2.513 ug/l

RT: 9.78 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VU027758.D

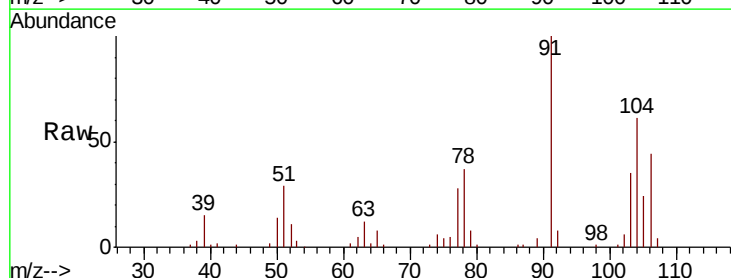
Acq: 23 Oct 2018 11:21

Tgt Ion:106 Resp: 16528

Ion Ratio Lower Upper

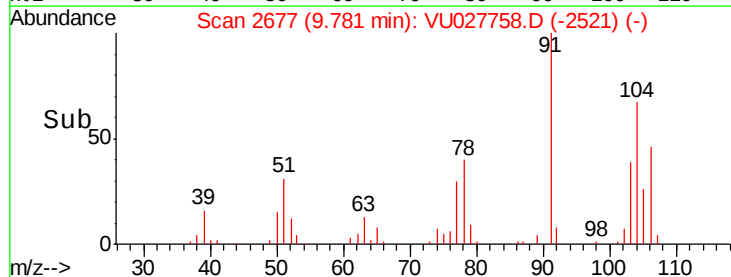
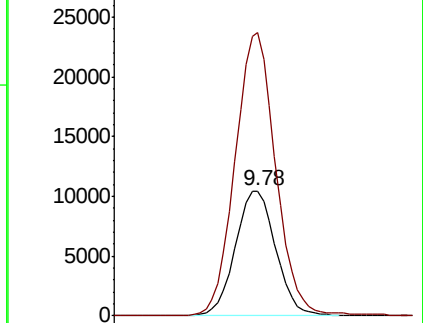
106 100

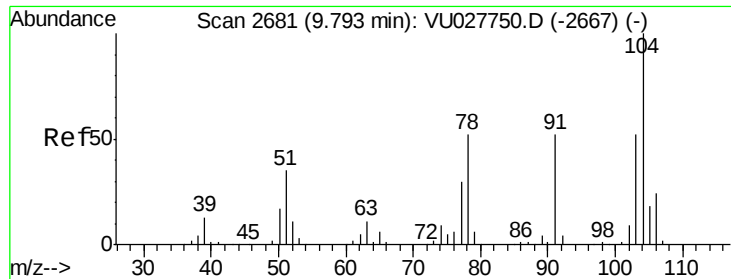
91 228.4 113.4 340.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

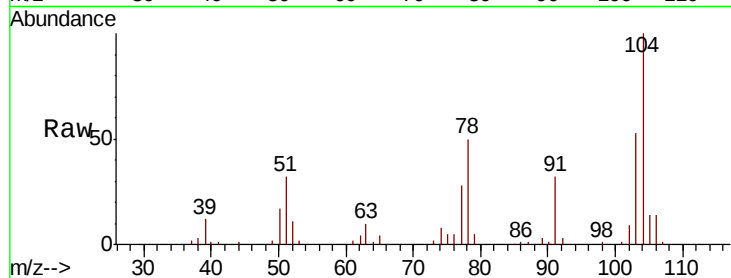




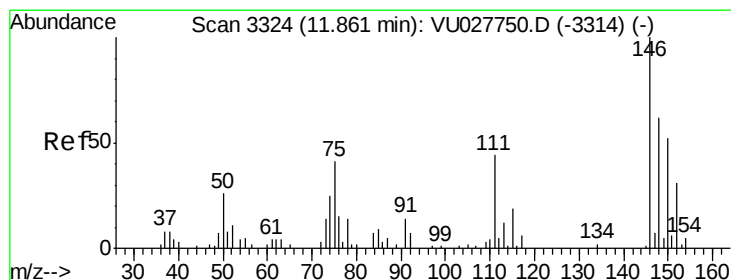
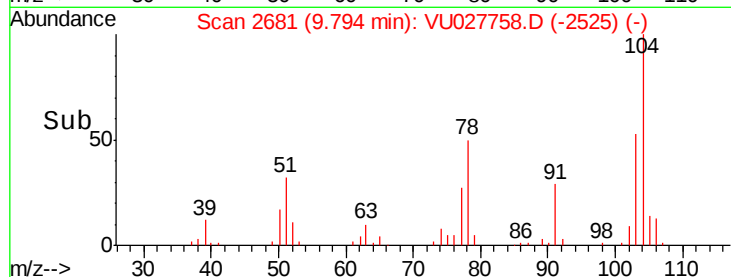
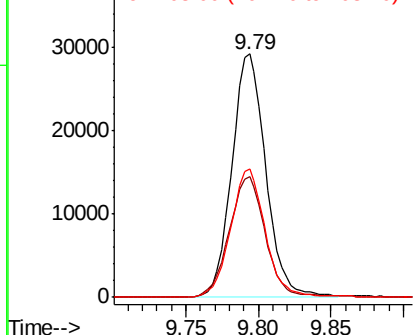
#66
Stvrene
Concen: 4.377 ug/l
RT: 9.79 min Scan# 2681
Delta R.T. 0.00 min
Lab File: VU027758.D
Acq: 23 Oct 2018 11:21

Instrument :
MSVOA_U
ClientSampleId :
1721DL

Tot Ion:104 Resp: 47499
Ion Ratio Lower Upper
104 100
78 53.0 45.2 67.8
103 53.4 44.8 67.2

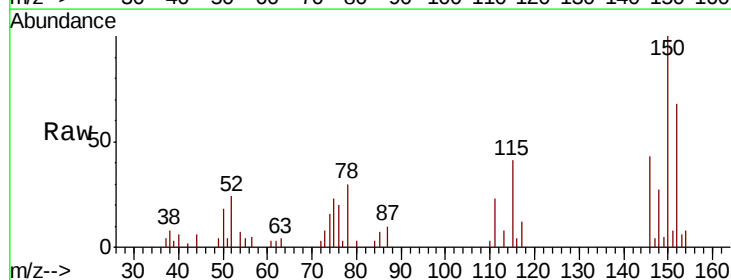


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0
Ion 103.00 (102.70 to 103.70): V

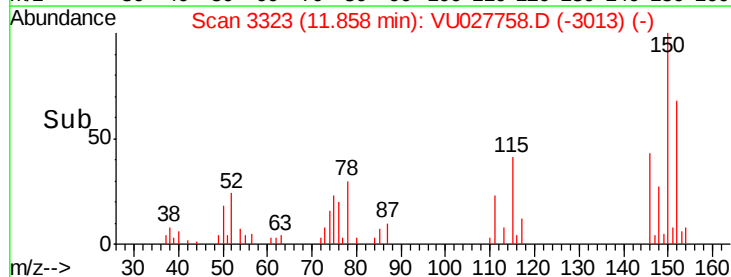
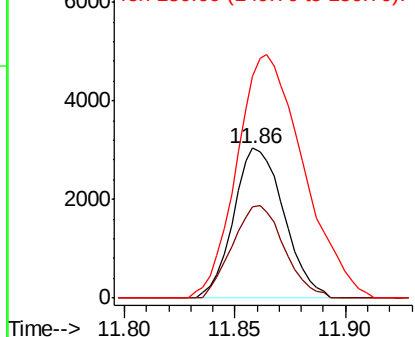


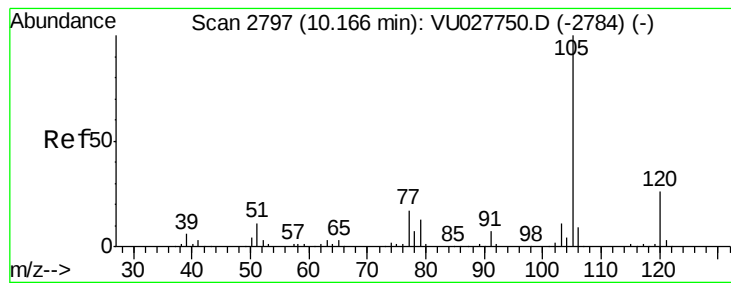
#68
1,2-Dichlorobenzene-d4
Concen: N.D. ug/l
RT: 11.86 min Scan# 3323
Delta R.T. -0.00 min
Lab File: VU027758.D
Acq: 23 Oct 2018 11:21

Tgt Ion:152 Resp: 4837
Ion Ratio Lower Upper
152 100
115 63.4 0.0 130.2
150 213.7 0.0 650.6



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#69

Isopropylbenzene

Concen: 1.562 ug/l

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU027758.D

Acq: 23 Oct 2018 11:21

Instrument :

MSVOA_U

ClientSampleId :

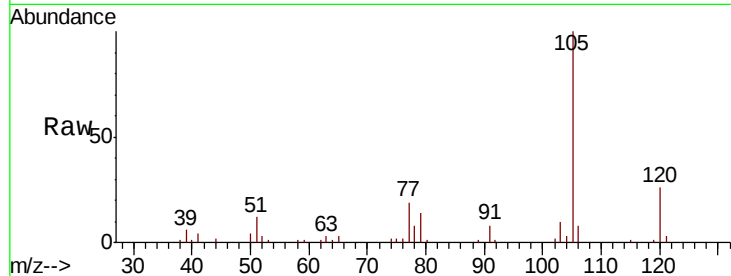
1721DL

Tot Ion:105 Resp: 28118

Ion Ratio Lower Upper

105 100

120 25.8 12.8 38.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

20000

15000

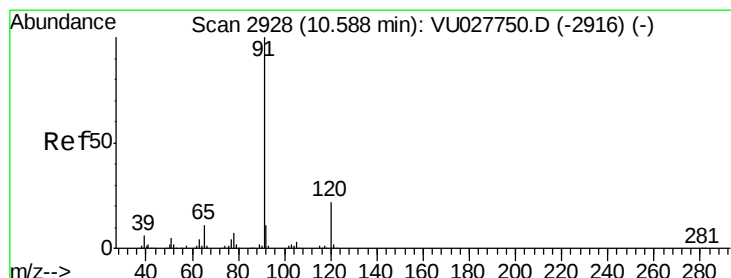
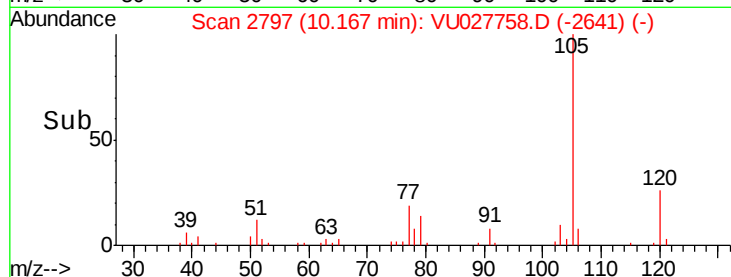
10000

5000

0

10.10 10.15 10.20 10.25

Time-->



#73

n-propylbenzene

Concen: 3.392 ug/l

RT: 10.59 min Scan# 2928

Delta R.T. 0.00 min

Lab File: VU027758.D

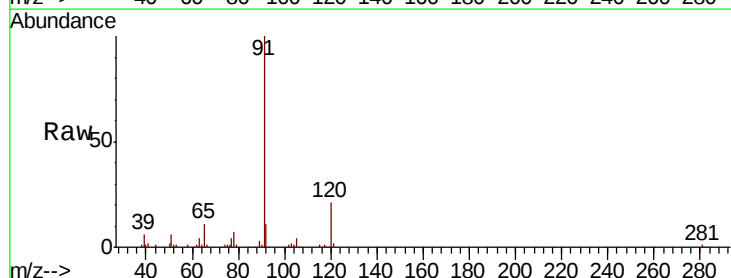
Acq: 23 Oct 2018 11:21

Tgt Ion:120 Resp: 15751

Ion Ratio Lower Upper

120 100

91 473.7 369.0 553.6



Abundance Ion 120.00 (119.70 to 120.70): V

Ion 91.00 (90.70 to 91.70): VU0

50000

40000

30000

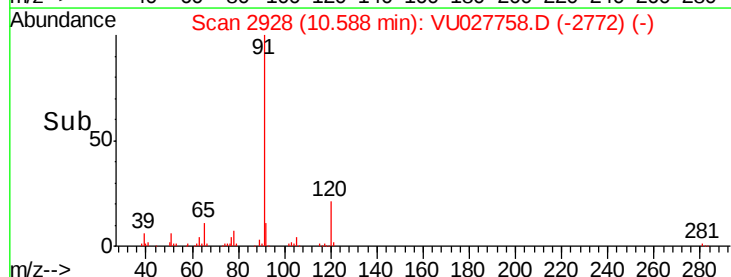
20000

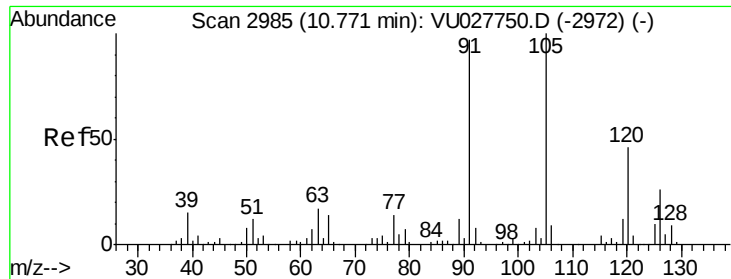
10000

0

10.55 10.60 10.65

Time-->





#75

1,3,5-Trimethylbenzene

Concen: 4.557 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. 0.00 min

Lab File: VU027758.D

Acq: 23 Oct 2018 11:21

Instrument :

MSVOA_U

ClientSampleId :

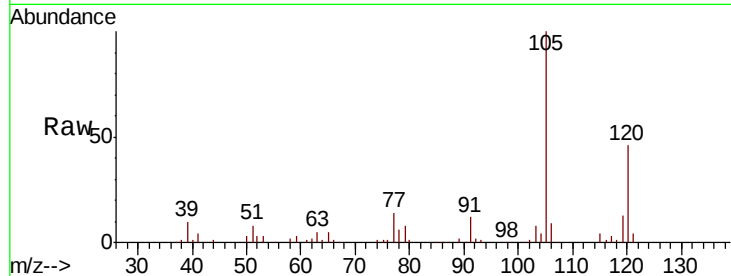
1721DL

Tot Ion:105 Resp: 68452

Ion Ratio Lower Upper

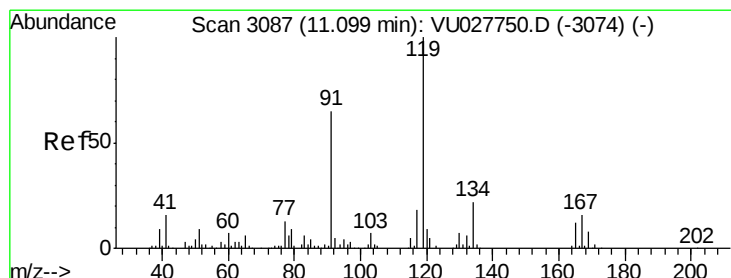
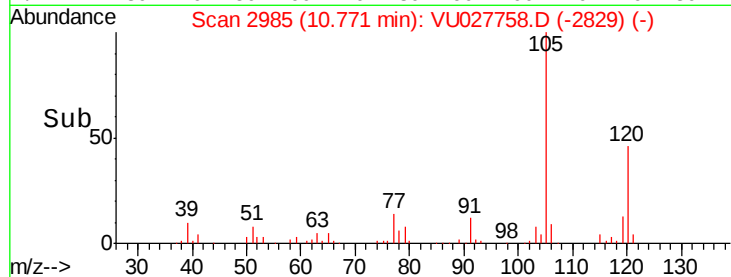
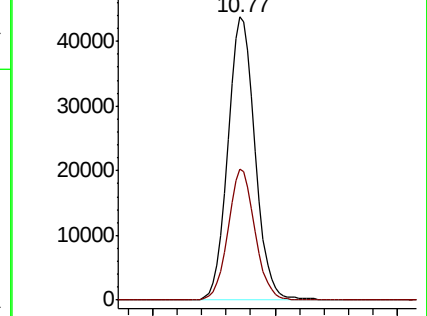
105 100

120 45.7 37.2 55.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#77

tert-Butylbenzene

Concen: 2.701 ug/l

RT: 11.10 min Scan# 3087

Delta R.T. 0.00 min

Lab File: VU027758.D

Acq: 23 Oct 2018 11:21

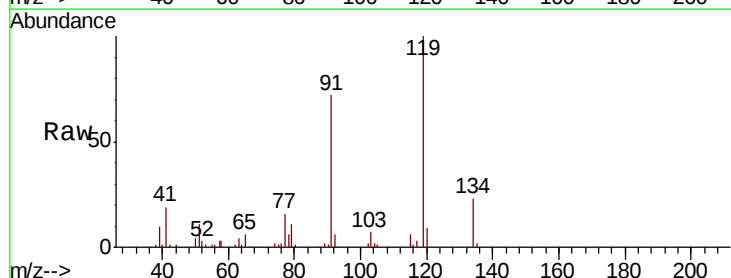
Tgt Ion:119 Resp: 39903

Ion Ratio Lower Upper

119 100

91 71.2 31.8 95.4

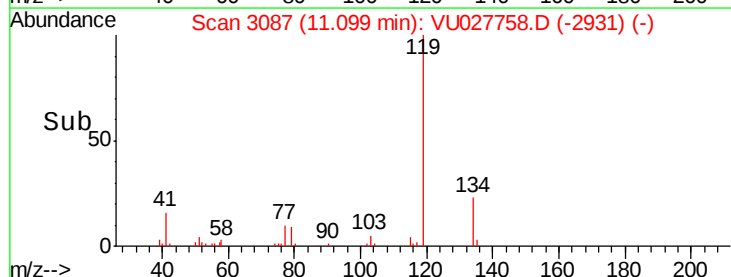
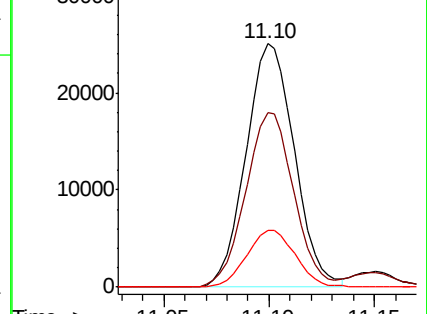
134 23.3 17.7 26.5

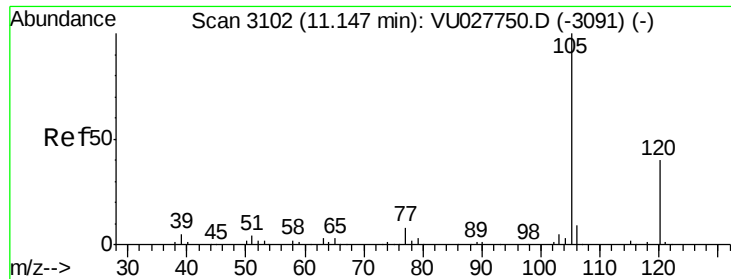


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VU0

Ion 134.00 (133.70 to 134.70): V





#78

1,2,4-Trimethylbenzene

Concen: 1.209 ug/l

RT: 11.15 min Scan# 3102

Delta R.T. 0.00 min

Lab File: VU027758.D

Acq: 23 Oct 2018 11:21

Instrument :

MSVOA_U

ClientSampleId :

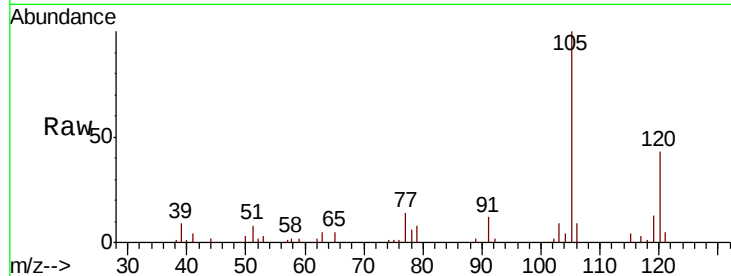
1721DL

Tot Ion:105 Resp: 18660

Ion Ratio Lower Upper

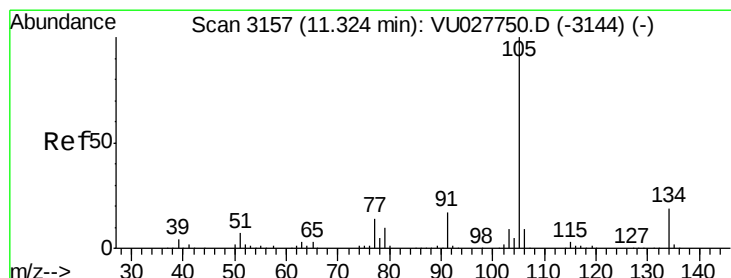
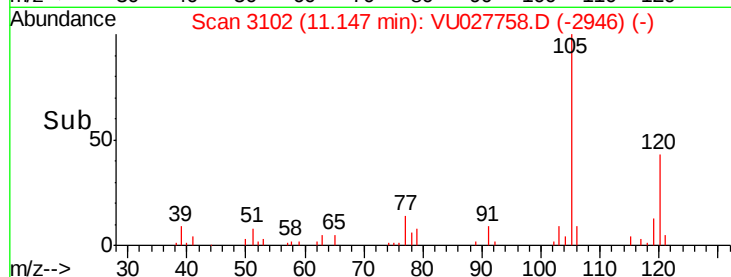
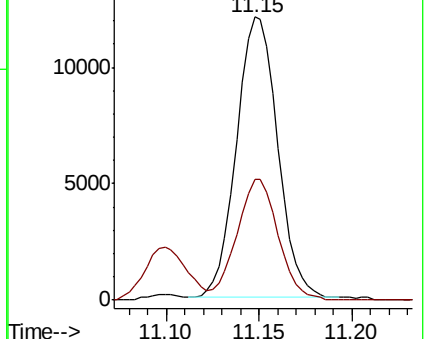
105 100

120 43.3 21.6 64.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#79

sec-Butylbenzene

Concen: 4.308 ug/l

RT: 11.32 min Scan# 3157

Delta R.T. 0.00 min

Lab File: VU027758.D

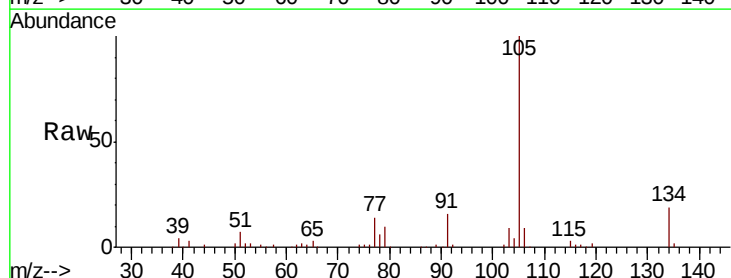
Acq: 23 Oct 2018 11:21

Tgt Ion:105 Resp: 84289

Ion Ratio Lower Upper

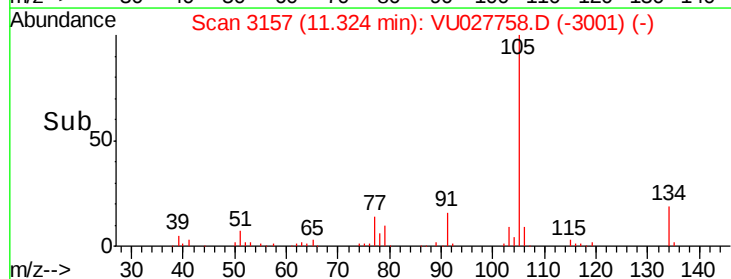
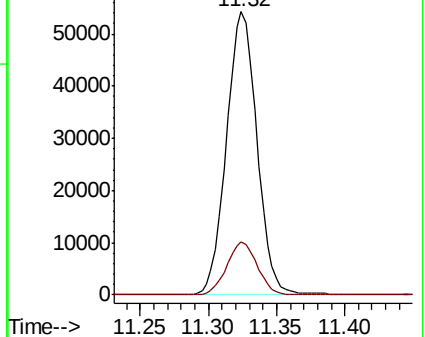
105 100

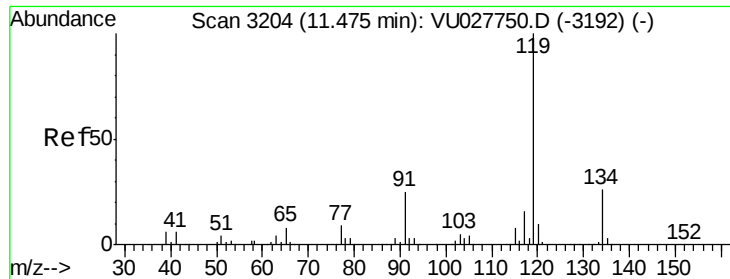
134 18.7 15.2 22.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

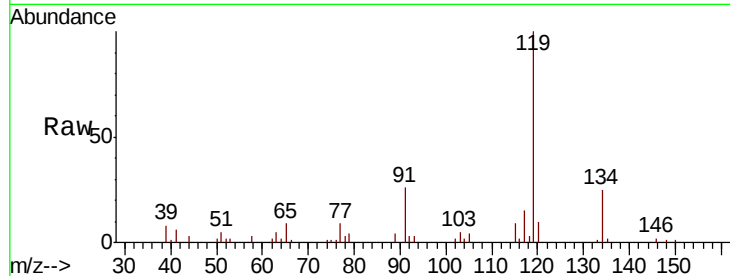




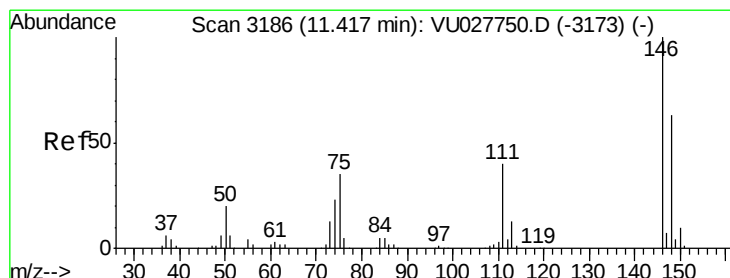
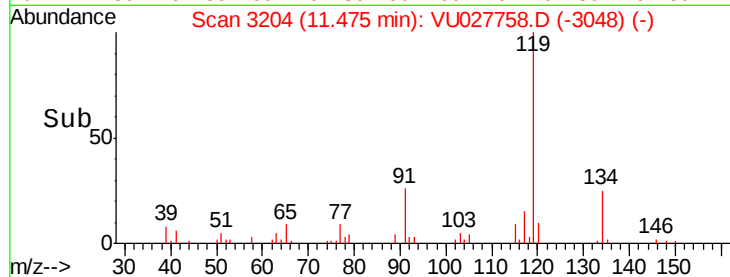
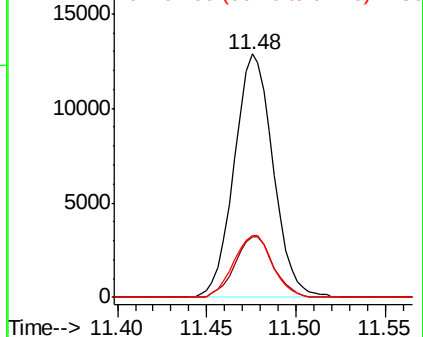
#81
 p-Isopropyltoluene
 Concen: 1.226 ug/l
 RT: 11.48 min Scan# 3204
 Delta R.T. 0.00 min
 Lab File: VU027758.D
 Acq: 23 Oct 2018 11:21

Instrument :
 MSVOA_U
 ClientSampleId :
 1721DL

Tot Ion	Ratio	Lower	Upper
119	100		
134	24.5	20.3	30.5
91	25.4	20.2	30.4

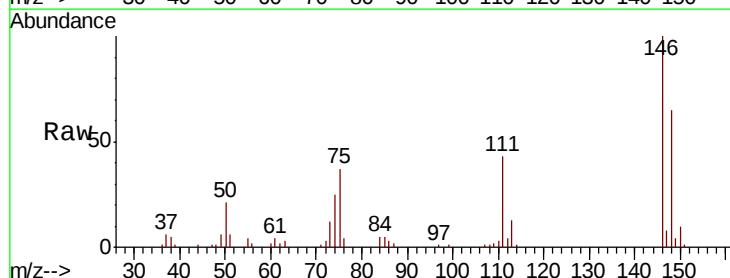


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 134.00 (133.70 to 134.70): V
 Ion 91.00 (90.70 to 91.70): V

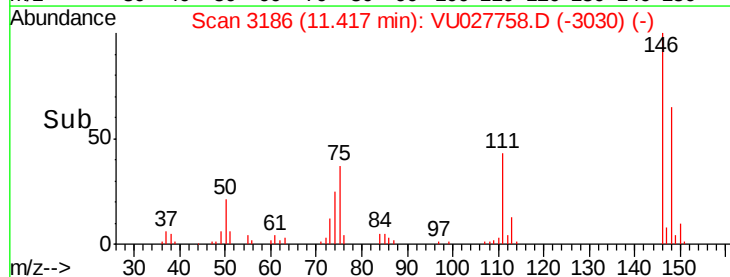
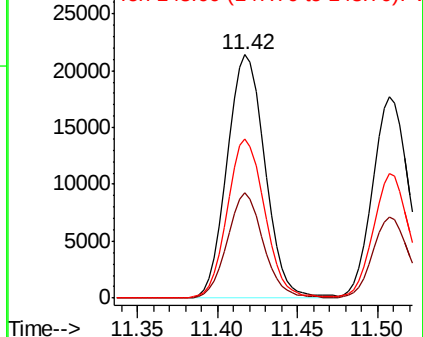


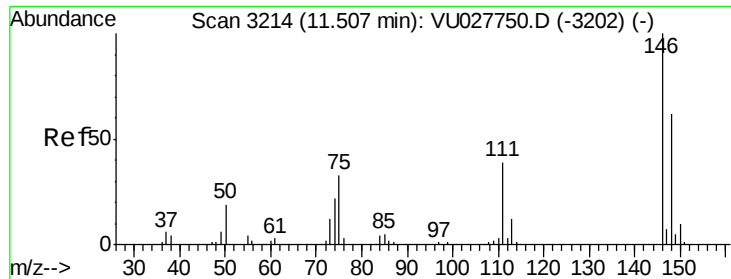
#82
 1,3-Dichlorobenzene
 Concen: 4.361 ug/l
 RT: 11.42 min Scan# 3186
 Delta R.T. 0.00 min
 Lab File: VU027758.D
 Acq: 23 Oct 2018 11:21

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.0	32.7	49.1
148	64.6	50.6	75.8



Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

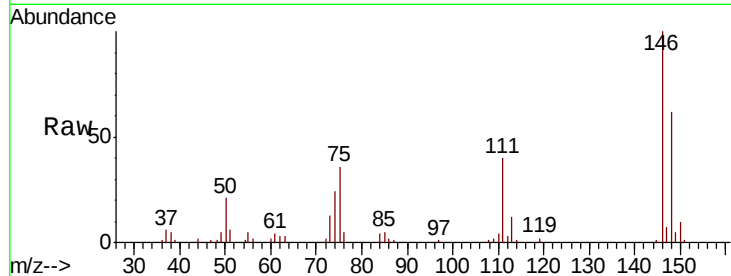




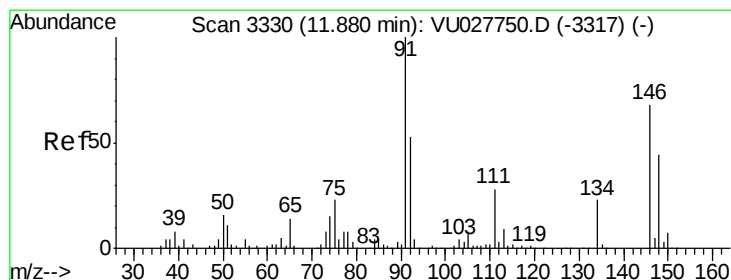
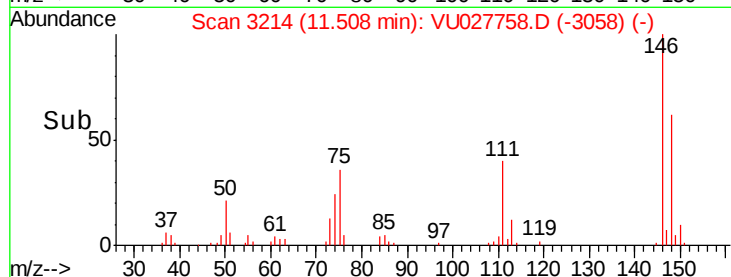
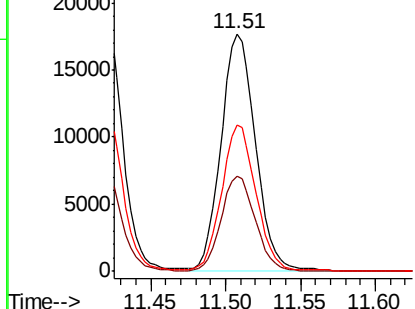
#83
 1,4-Dichlorobenzene
 Concen: 3.579 ug/l
 RT: 11.51 min Scan# 3214
 Delta R.T. 0.00 min
 Lab File: VU027758.D
 Acq: 23 Oct 2018 11:21

Instrument :
 MSVOA_U
 ClientSampleID :
 1721DL

Tot Ion:146 Resp: 28466
 Ion Ratio Lower Upper
 146 100
 111 39.5 32.0 48.0
 148 61.7 50.9 76.3

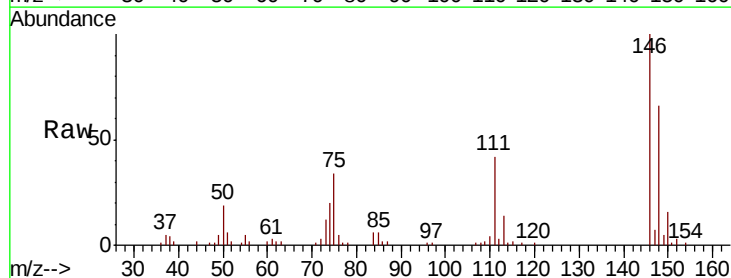


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

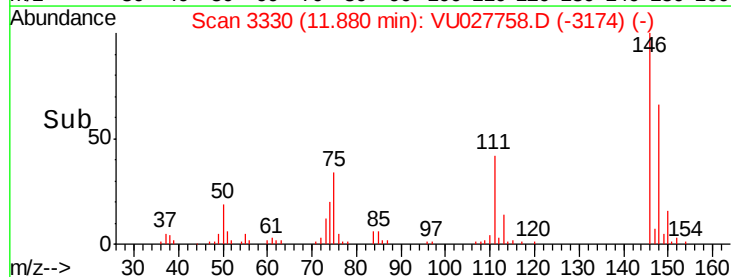
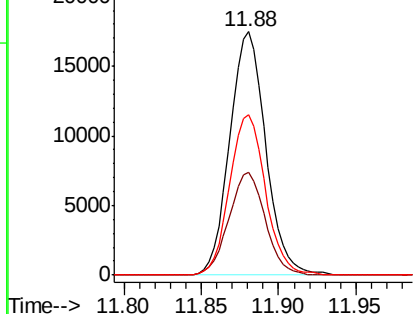


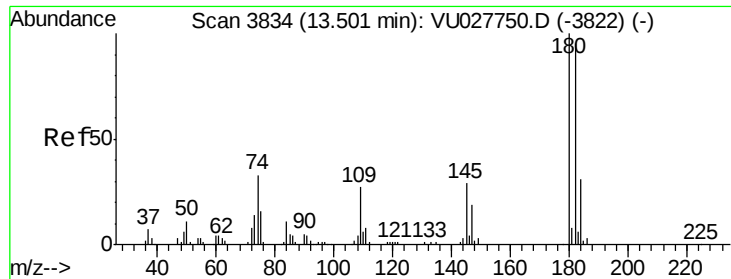
#85
 1,2-Dichlorobenzene
 Concen: 3.735 ug/l
 RT: 11.88 min Scan# 3330
 Delta R.T. 0.00 min
 Lab File: VU027758.D
 Acq: 23 Oct 2018 11:21

Tgt Ion:146 Resp: 28289
 Ion Ratio Lower Upper
 146 100
 111 42.4 21.2 63.6
 148 65.6 32.2 96.6



Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

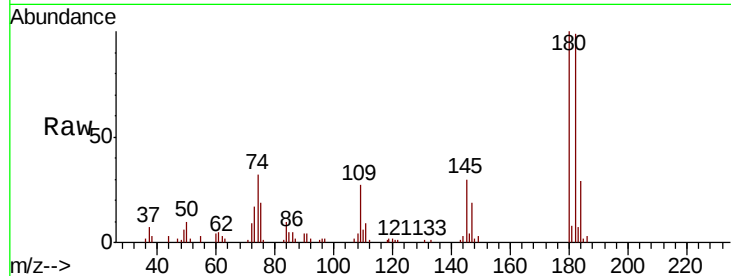




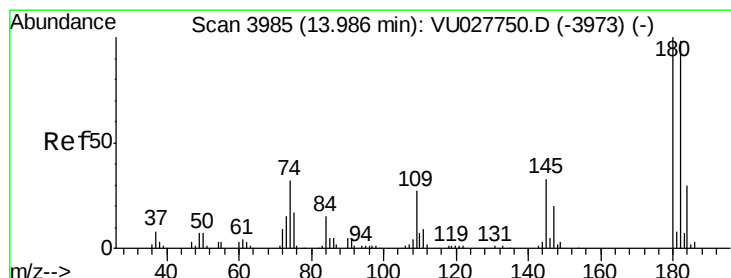
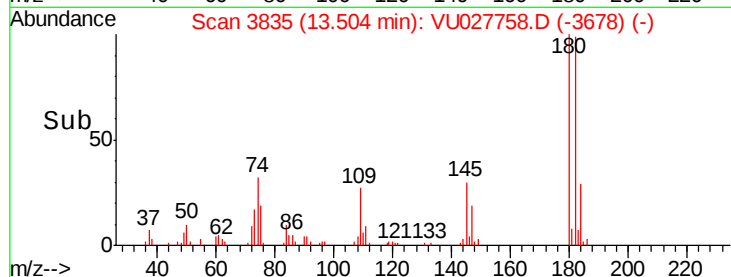
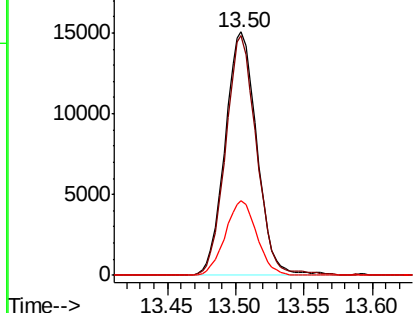
#87
 1,2,4-Trichlorobenzene
 Concen: 4.425 ug/l
 RT: 13.50 min Scan# 3835
 Delta R.T. 0.00 min
 Lab File: VU027758.D
 Acq: 23 Oct 2018 11:21

Instrument :
 MSVOA_U
 ClientSampleId :
 1721DL

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.0	75.9	113.9
145	30.3	23.6	35.4

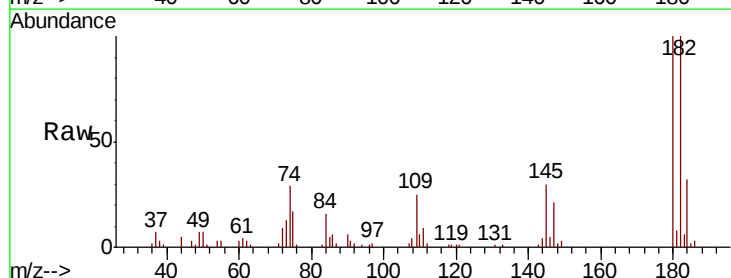


Abundance Ion 179.70 (179.40 to 180.40): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#90
 1,2,3-Trichlorobenzene
 Concen: 4.037 ug/l
 RT: 13.99 min Scan# 3986
 Delta R.T. 0.00 min
 Lab File: VU027758.D
 Acq: 23 Oct 2018 11:21

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.1	77.0	115.6
145	30.5	25.4	38.2



Abundance Ion 179.70 (179.40 to 180.40): V
 Ion 181.70 (181.40 to 182.40): V
 Ion 144.80 (144.50 to 145.50): V

