

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U0102318\
 Data File : VU027757.D
 Acq On : 23 Oct 2018 10:27
 Operator : MD/SY
 Sample : J5026-04
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 24 05:09:37 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

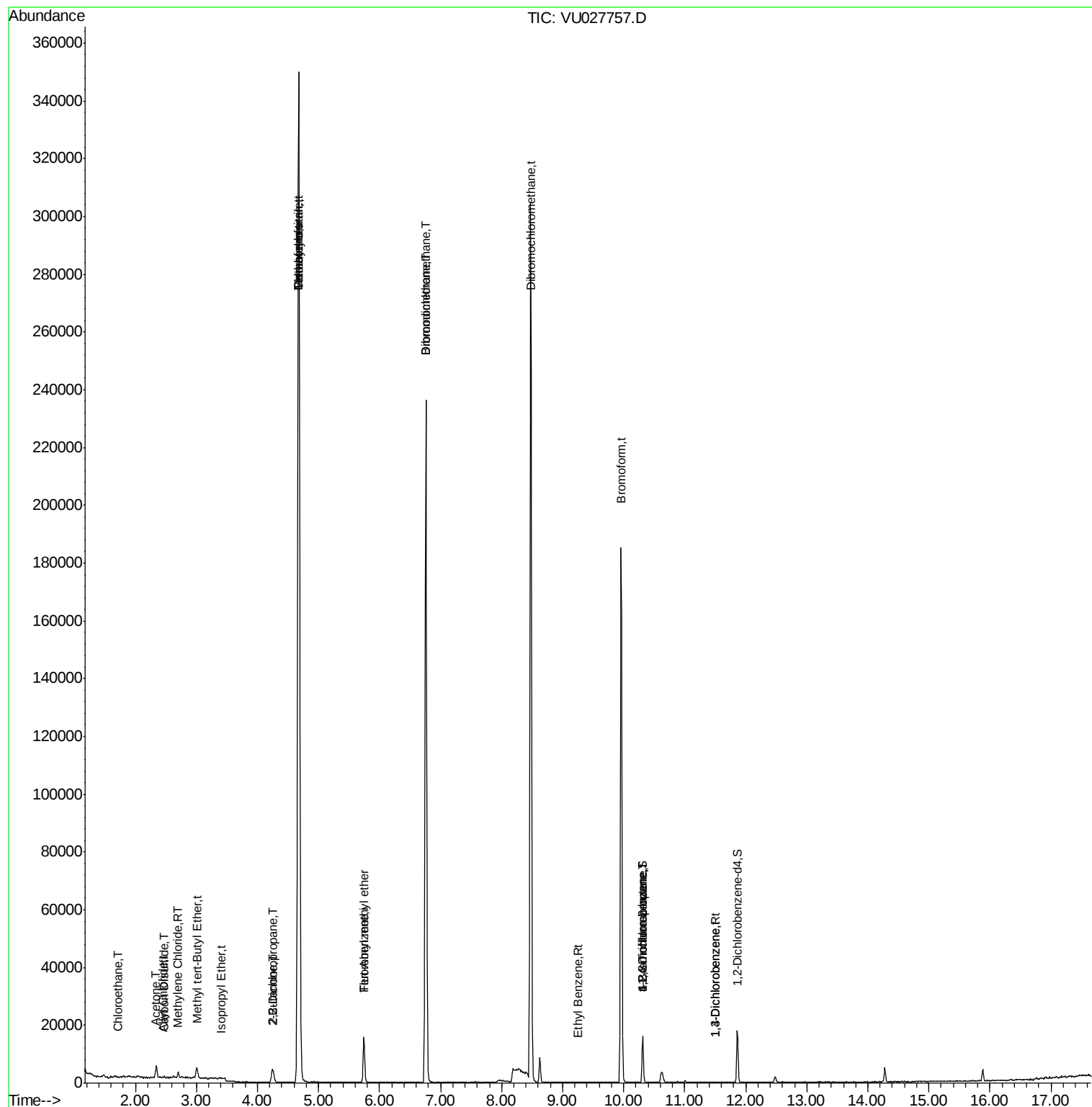
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	5.74	96	14865	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.31	95	5552	0.98	ug/l	0.00
Spiked Amount 1.000			Recovery	=	98.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	5143	0.97	ug/l	0.00
Spiked Amount 1.000			Recovery	=	97.00%	
Target Compounds						
					Ovalue	
6) Chloroethane	1.71	64	462	0.145	ug/l #	44
11) Allyl Chloride	2.45	41	58	0.007	ug/l	89
13) Acetone	2.32	43	224	0.243	ug/l #	47
14) Carbon Disulfide	2.48	76	348	0.028	ug/l #	75
15) Methylene Chloride	2.70	84	593	0.142	ug/l	91
18) 2-Butanone	4.26	43	172	0.112	ug/l	79
21) 2,2-Dichloropropane	4.25	77	246	0.034	ug/l #	55
25) Methyl tert-Butyl Ether	3.01	73	3530	0.334	ug/l #	87
27) Chloroform	4.67	83	319927	40.343	ug/l	100
31) Isopropyl Ether	3.42	45	20	0.001	ug/l #	1
33) Tert-Amyl methyl ether	5.75	73	189	0.017	ug/l #	58
39) Methacrylonitrile	4.68	41	1393	0.691	ug/l #	28
41) Tetrahydrofuran	4.66	42	221	0.198	ug/l #	1
43) Dibromomethane	6.76	93	4726	2.149	ug/l #	5
44) Bromodichloromethane	6.76	83	152186	25.486	ug/l	99
46) t-1,4-Dichloro-2-butene	10.31	75	2951	2.293	ug/l #	20
55) Dibromochloromethane	8.48	129	151445	40.552	ug/l	100
63) Ethyl Benzene	9.26	91	21	0.001	ug/l #	45
67) Bromoform	9.96	173	82627	38.227	ug/l	98
71) 1,2,3-Trichloropropane	10.31	75	2951	0.962	ug/l #	47
82) 1,3-Dichlorobenzene	11.51	146	40	0.005	ug/l #	25
83) 1,4-Dichlorobenzene	11.51	146	40	0.005	ug/l #	25
-----	-----	-----	-----	-----	-----	-----

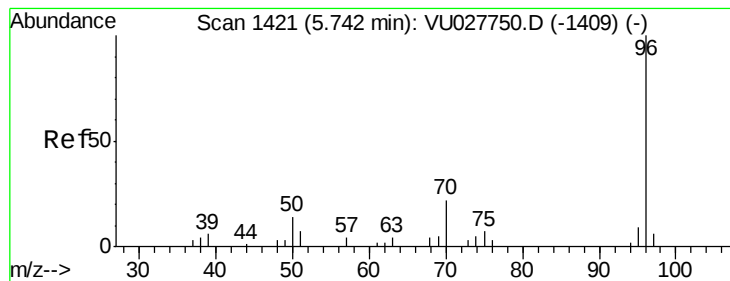
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU102318\
Data File : VU027757.D
Acq On : 23 Oct 2018 10:27
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Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

Quant Time: Oct 24 05:09:37 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA U\METHOD\524U0102318DW.M
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QLast Update : Tue Oct 23 09:12:15 2018
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#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.74 min Scan# 1421

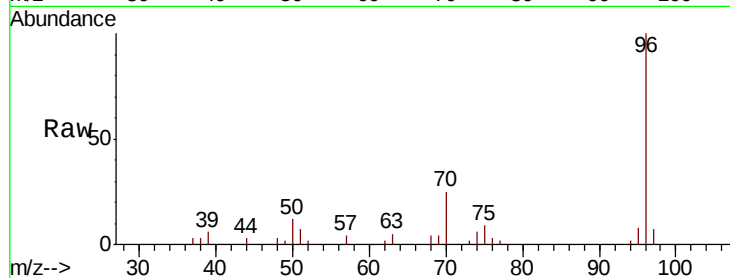
Delta R.T. 0.00 min

Lab File: VU027757.D

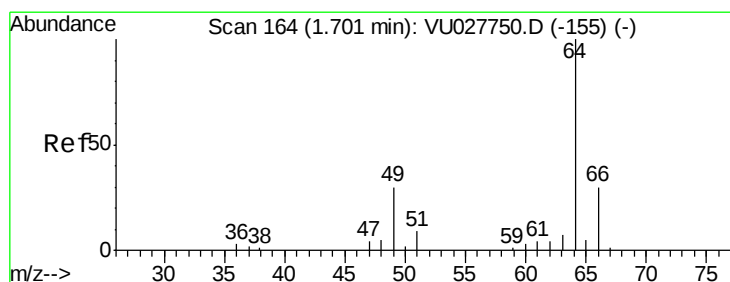
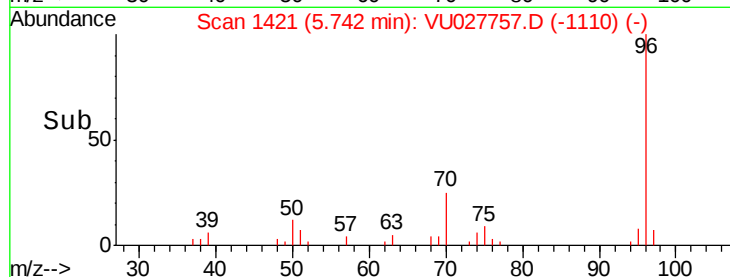
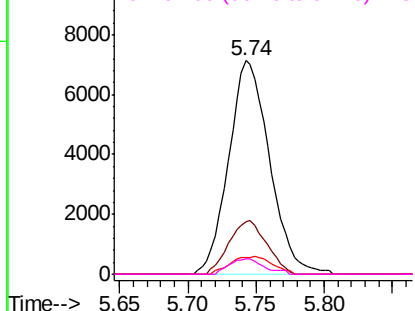
Acq: 23 Oct 2018 10:27

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	96	Resp:	14865
Ion	Ratio	Lower	Upper
96	100		
70	23.0	17.7	26.5
95	8.6	7.0	10.6
97	6.1	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



#6

Chloroethane

Concen: 0.145 ug/l

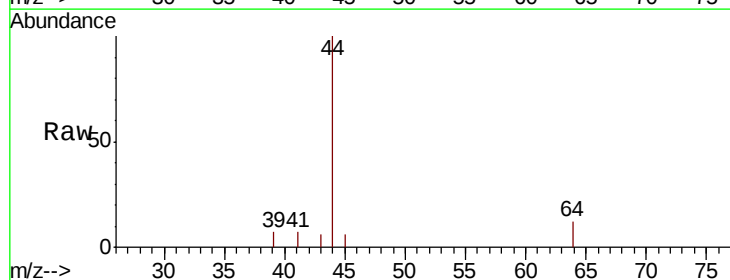
RT: 1.71 min Scan# 167

Delta R.T. 0.01 min

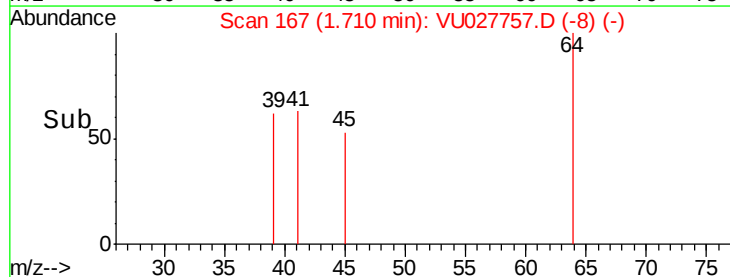
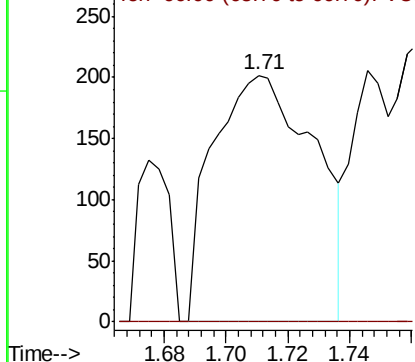
Lab File: VU027757.D

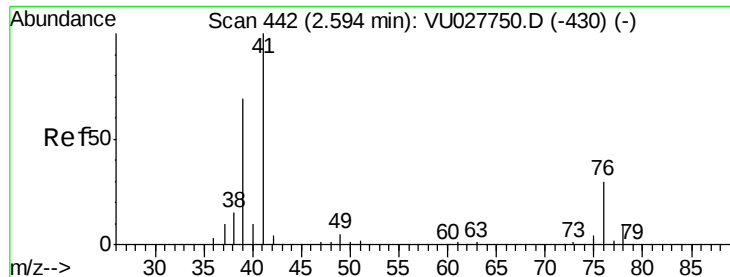
Acq: 23 Oct 2018 10:27

Tgt Ion:	64	Resp:	462
Ion	Ratio	Lower	Upper
64	100		
66	0.0	24.3	36.5#



Abundance Ion 64.00 (63.70 to 64.70): VU0
Ion 66.00 (65.70 to 66.70): VU0

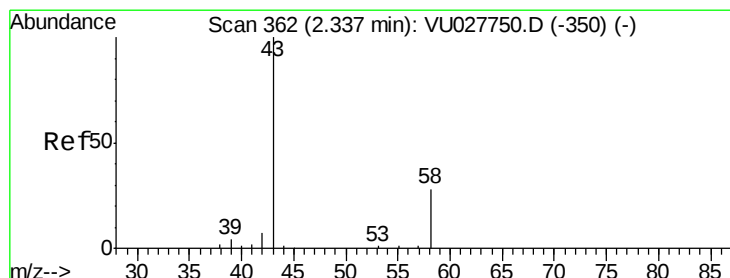
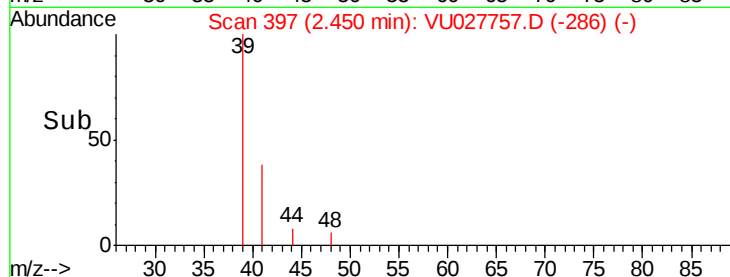
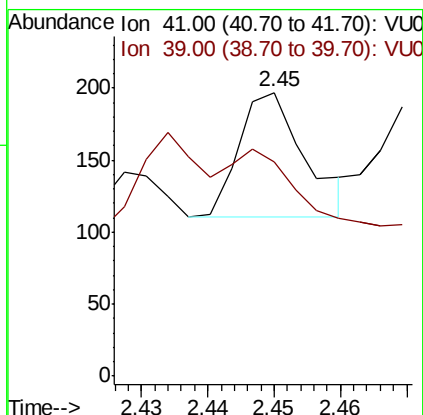
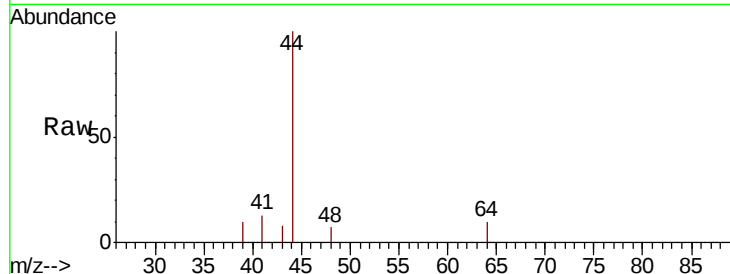




#11
Allvl Chloride
Concen: 0.007 ug/l
RT: 2.45 min Scan# 397
Delta R.T. -0.14 min
Lab File: VU027757.D
Acq: 23 Oct 2018 10:27

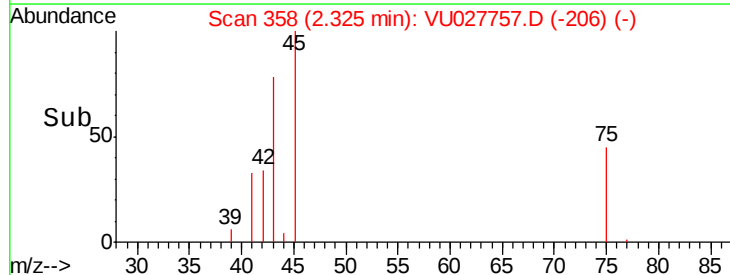
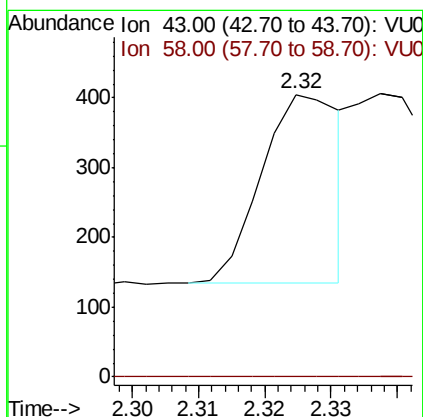
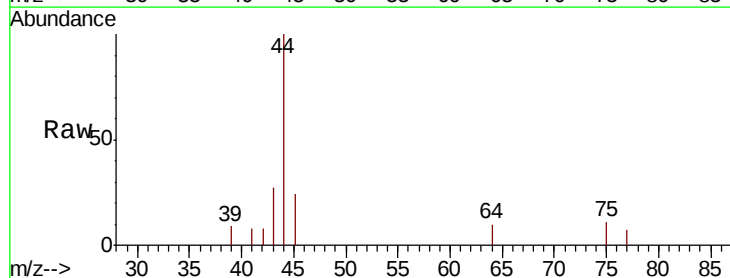
Instrument :
MSVOA_U
ClientSampled :

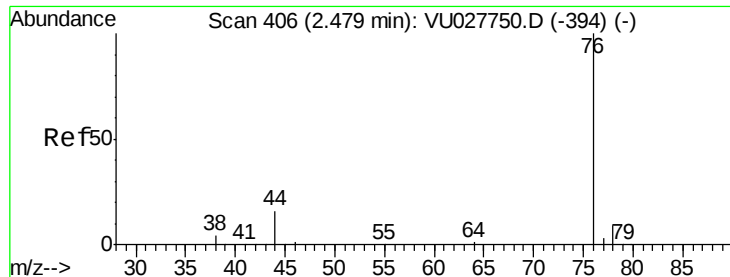
Tot Ion: 41 Resp: 58
Ion Ratio Lower Upper
41 100
39 60.3 55.4 83.0



#13
Acetone
Concen: 0.243 ug/l
RT: 2.32 min Scan# 358
Delta R.T. -0.01 min
Lab File: VU027757.D
Acq: 23 Oct 2018 10:27

Tgt Ion: 43 Resp: 224
Ion Ratio Lower Upper
43 100
58 0.0 22.3 33.5#





#14

Carbon Disulfide

Concen: 0.028 ug/l

RT: 2.48 min Scan# 406

Delta R.T. 0.00 min

Lab File: VU027757.D

Acq: 23 Oct 2018 10:27

Instrument :

MSVOA_U

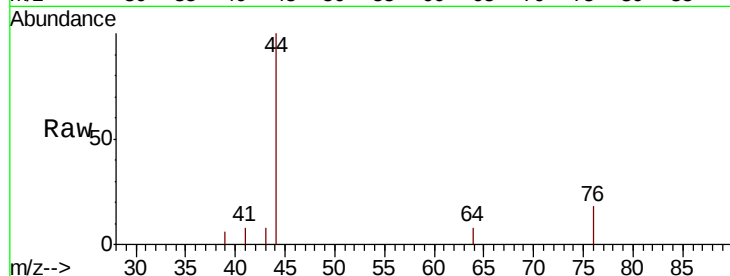
ClientSampleId :

Tot Ion: 76 Resp: 348

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0

2.48

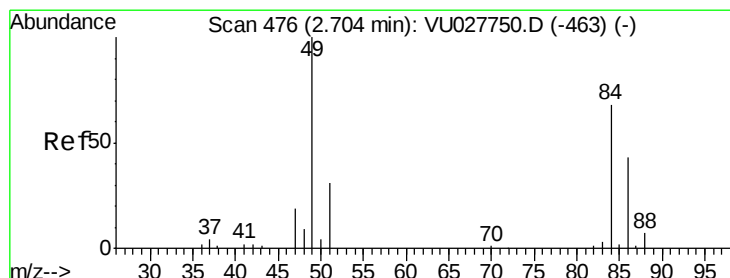
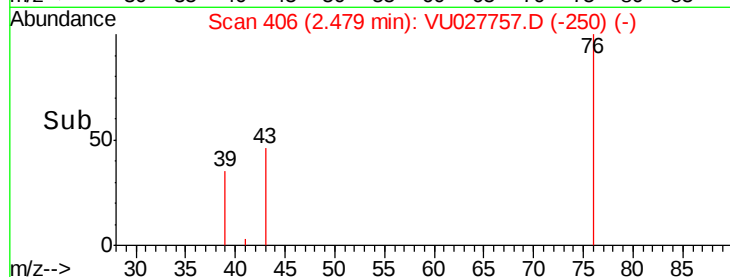
300

200

100

0

Time-->



#15

Methylene Chloride

Concen: 0.142 ug/l

RT: 2.70 min Scan# 476

Delta R.T. 0.00 min

Lab File: VU027757.D

Acq: 23 Oct 2018 10:27

Tgt Ion: 84 Resp: 593

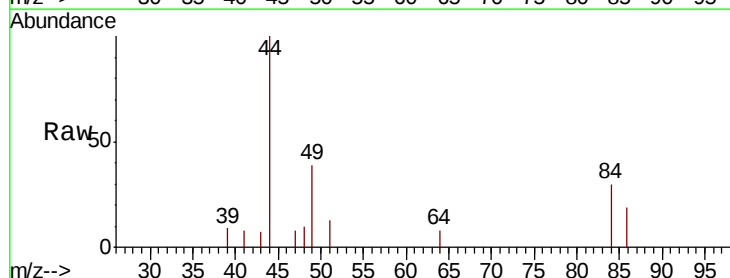
Ion Ratio Lower Upper

84 100

49 130.1 118.5 177.7

51 44.6 0.0 91.0

86 64.9 50.7 76.1



Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 49.00 (48.70 to 49.70): VU0

Ion 51.00 (50.70 to 51.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

800

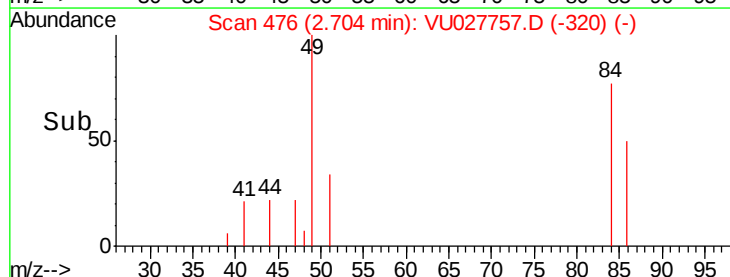
600

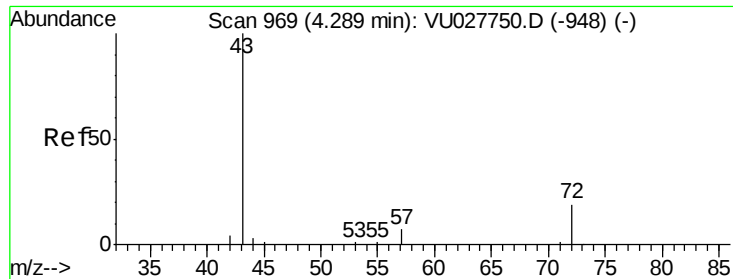
400

200

0

Time-->

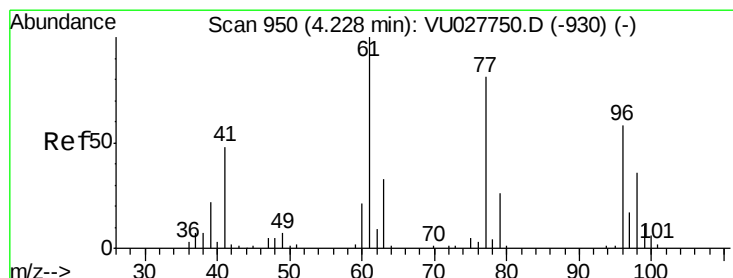
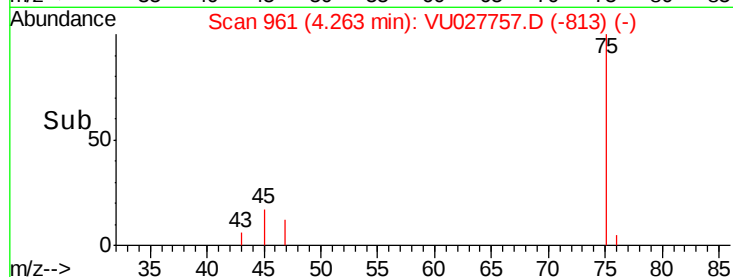
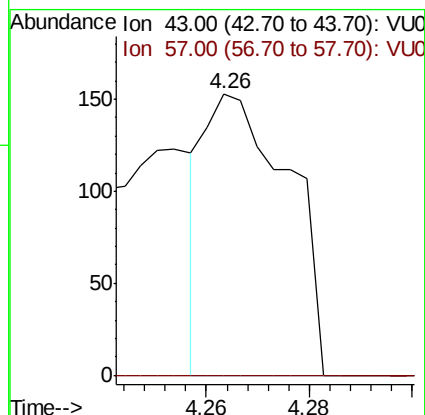
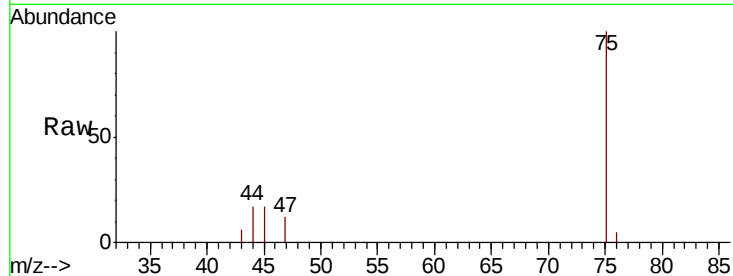




#18
2-Butanone
Concen: 0.112 ug/l
RT: 4.26 min Scan# 961
Delta R.T. -0.03 min
Lab File: VU027757.D
Acq: 23 Oct 2018 10:27

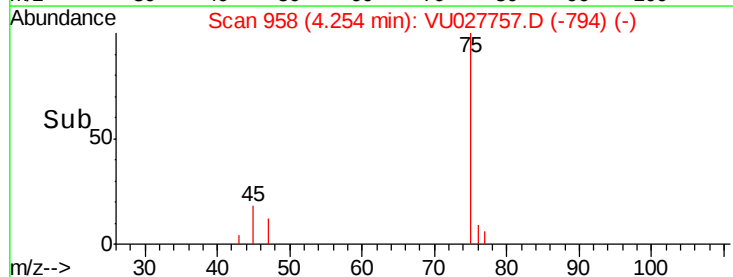
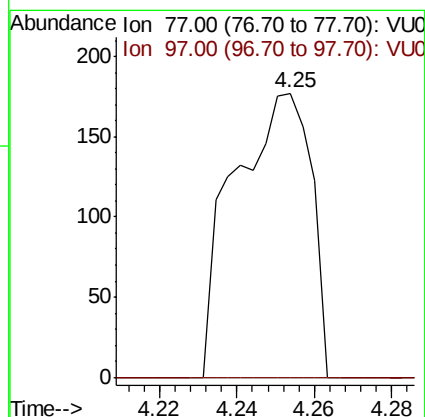
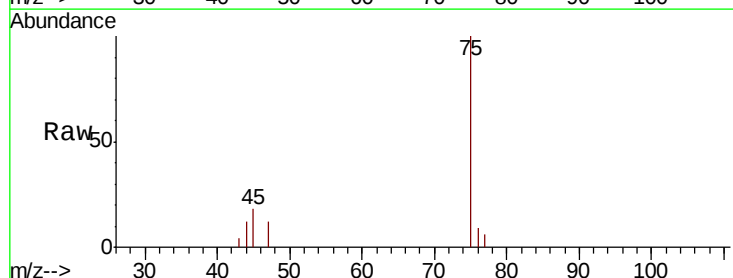
Instrument :
MSVOA_U
ClientSampleId :

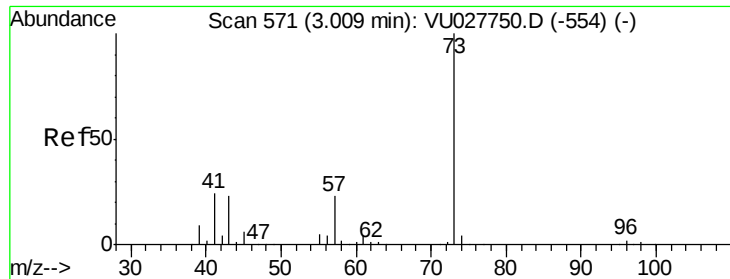
Tot Ion: 43 Resp: 172
Ion Ratio Lower Upper
43 100
57 0.0 0.0 14.4



#21
2,2-Dichloropropane
Concen: 0.034 ug/l
RT: 4.25 min Scan# 958
Delta R.T. 0.03 min
Lab File: VU027757.D
Acq: 23 Oct 2018 10:27

Tgt Ion: 77 Resp: 246
Ion Ratio Lower Upper
77 100
97 0.0 16.9 25.3#





#25

Methyl tert-Butyl Ether

Concen: 0.334 ug/l

RT: 3.01 min Scan# 572

Delta R.T. 0.00 min

Lab File: VU027757.D

Acq: 23 Oct 2018 10:27

Instrument :

MSVOA_U

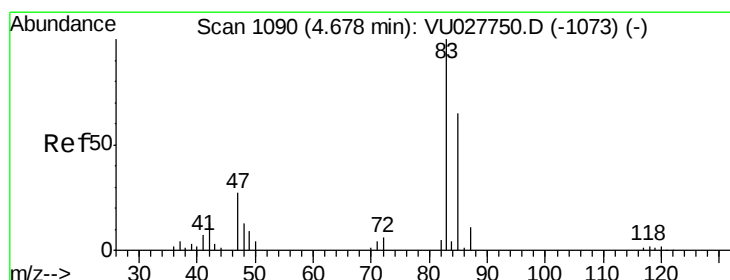
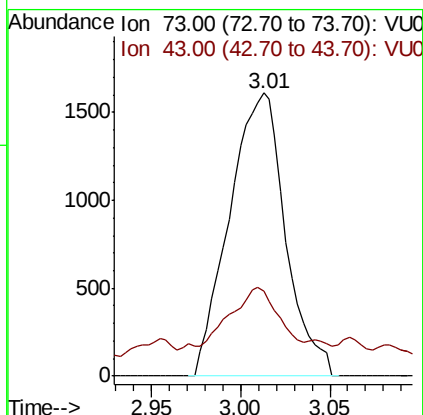
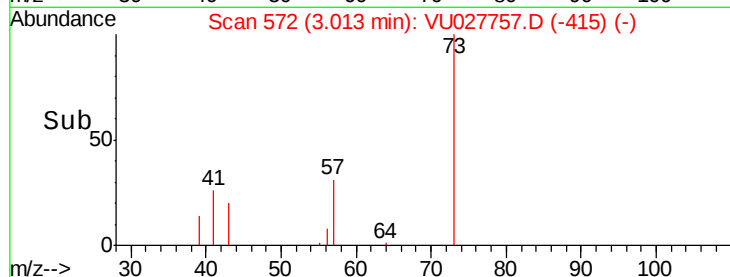
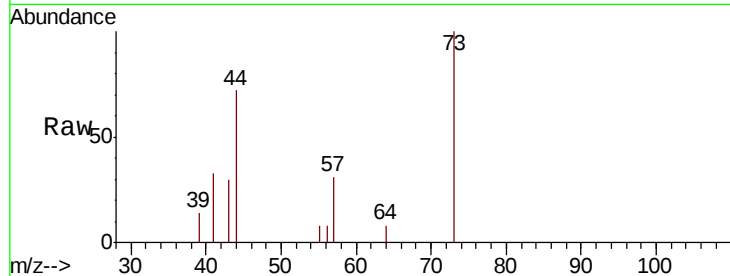
ClientSampleId :

Tot Ion: 73 Resp: 3530

Ion Ratio Lower Upper

73 100

43 16.9 18.6 27.8#



#27

Chloroform

Concen: 40.343 ug/l

RT: 4.67 min Scan# 1089

Delta R.T. -0.00 min

Lab File: VU027757.D

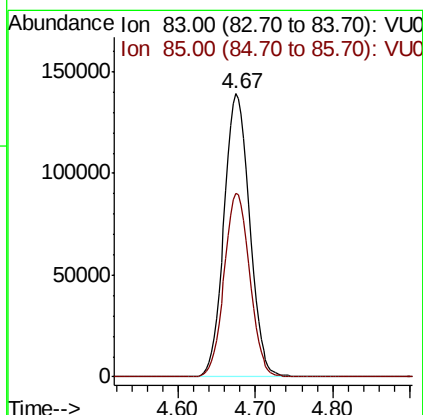
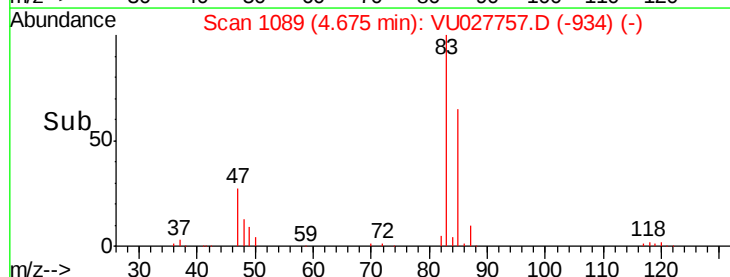
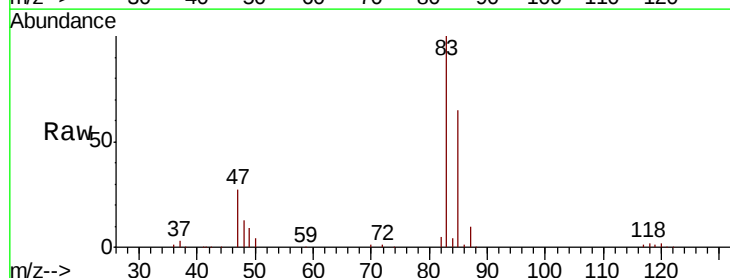
Acq: 23 Oct 2018 10:27

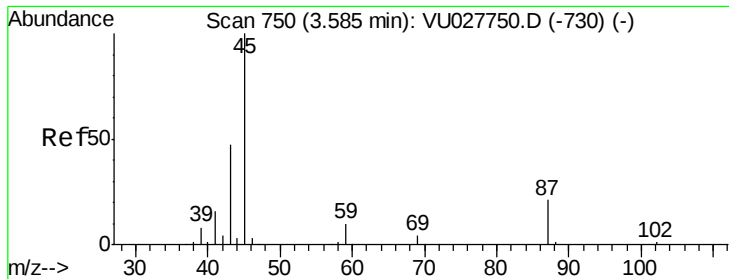
Tgt Ion: 83 Resp: 319927

Ion Ratio Lower Upper

83 100

85 65.0 0.0 130.2





#31

Isopropyl Ether

Concen: 0.001 ug/l

RT: 3.42 min Scan# 698

Delta R.T. -0.17 min

Lab File: VU027757.D

Acq: 23 Oct 2018 10:27

Instrument :

MSVOA_U

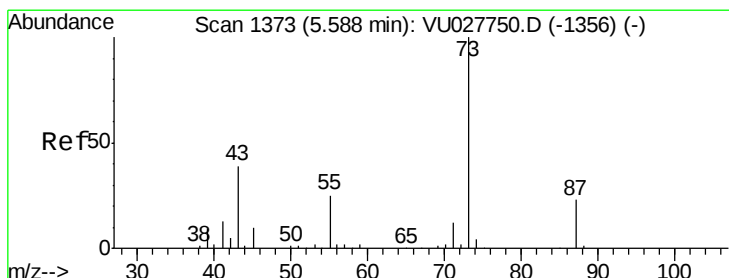
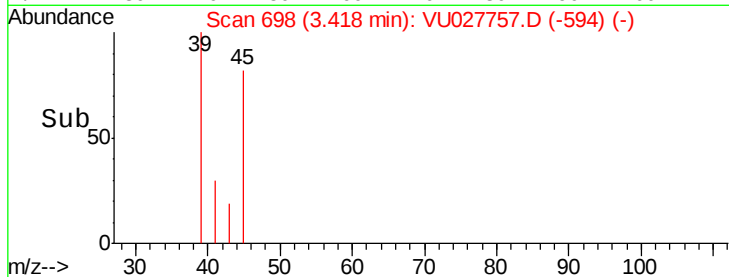
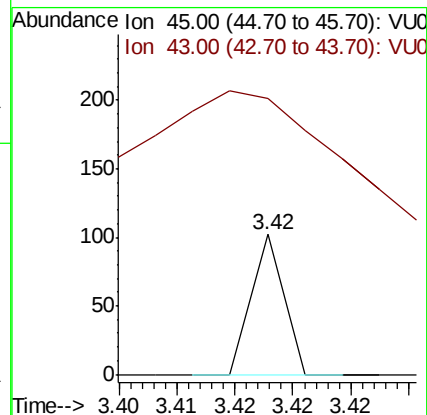
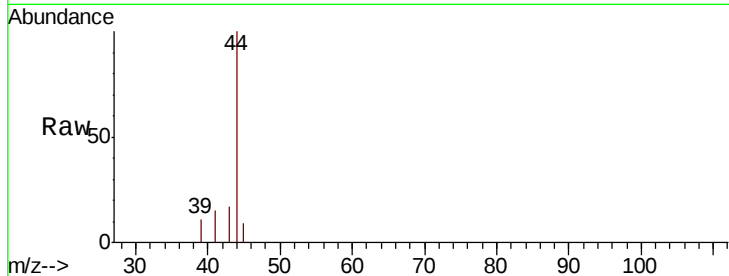
ClientSampled :

Tot Ion: 45 Resp: 20

Ion Ratio Lower Upper

45 100

43 480.0 24.5 73.5#



#33

Tert-Amyl methyl ether

Concen: 0.017 ug/l

RT: 5.75 min Scan# 1422

Delta R.T. 0.16 min

Lab File: VU027757.D

Acq: 23 Oct 2018 10:27

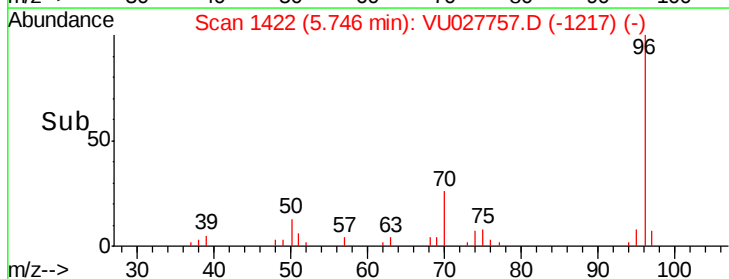
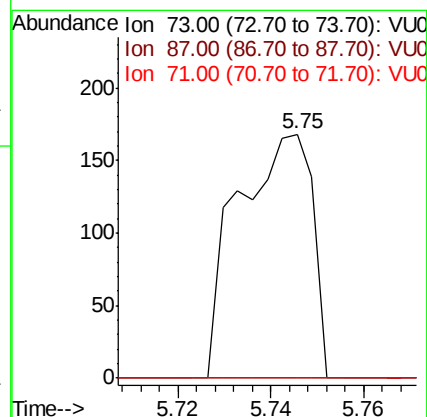
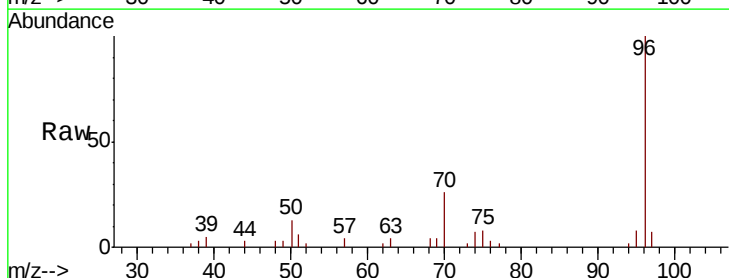
Tgt Ion: 73 Resp: 189

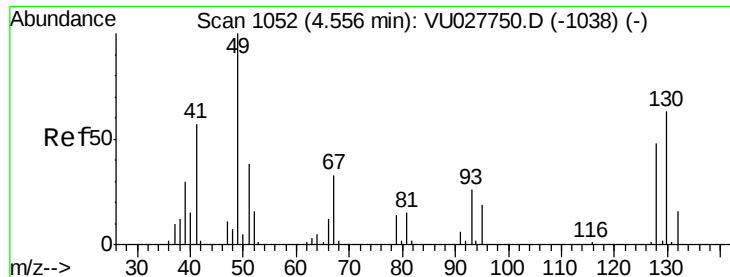
Ion Ratio Lower Upper

73 100

87 0.0 18.5 27.7#

71 0.0 9.1 13.7#

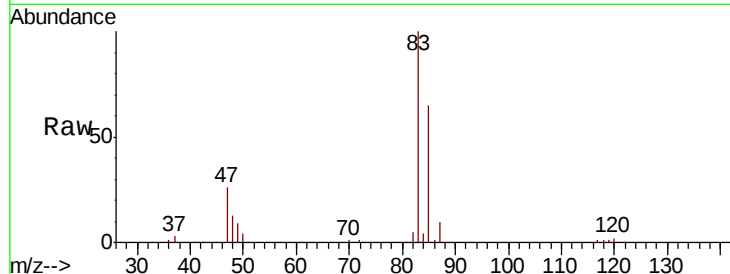




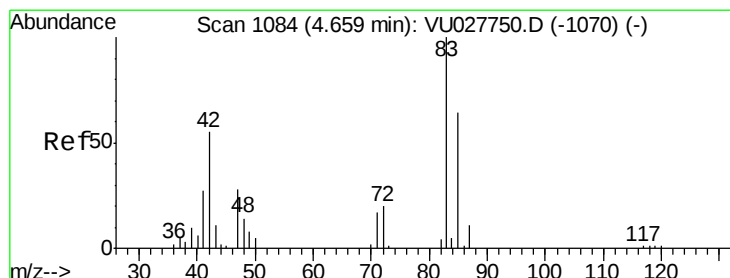
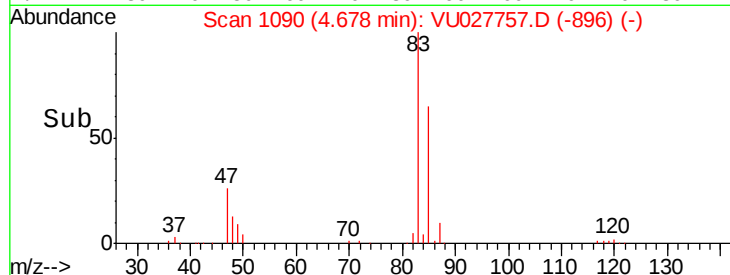
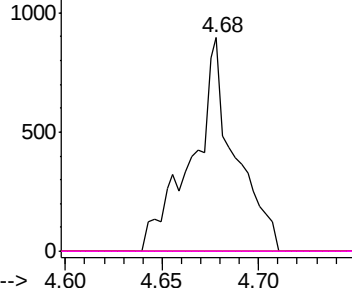
#39
Methacrylonitrile
Concen: 0.691 ug/l
RT: 4.68 min Scan# 1090
Delta R.T. 0.12 min
Lab File: VU027757.D
Acq: 23 Oct 2018 10:27

Instrument :
MSVOA_U
ClientSampled :

Tot Ion	Ratio	Lower	Upper
41	100		
67	0.0	46.1	69.1#
39	0.0	43.6	65.4#
52	0.0	21.4	32.2#

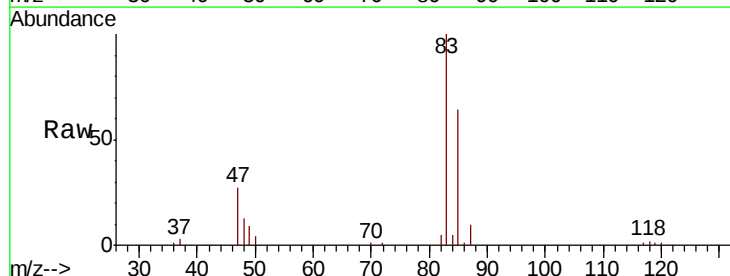


Abundance Ion 41.00 (40.70 to 41.70): VU0
Ion 67.00 (66.70 to 67.70): VU0
Ion 39.00 (38.70 to 39.70): VU0
Ion 52.00 (51.70 to 52.70): VU0

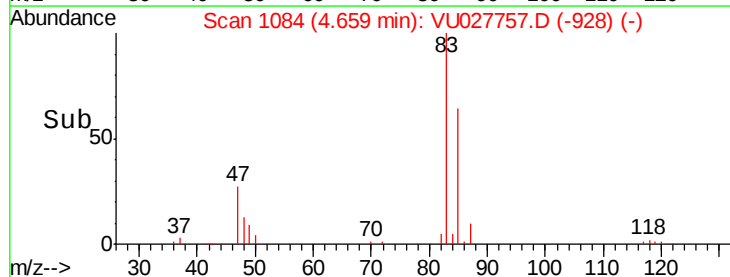
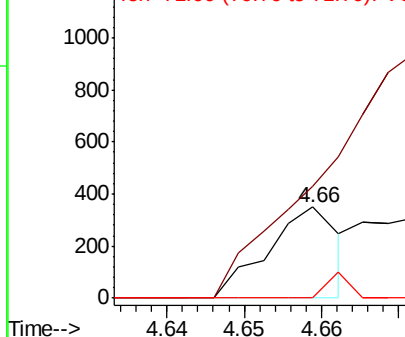


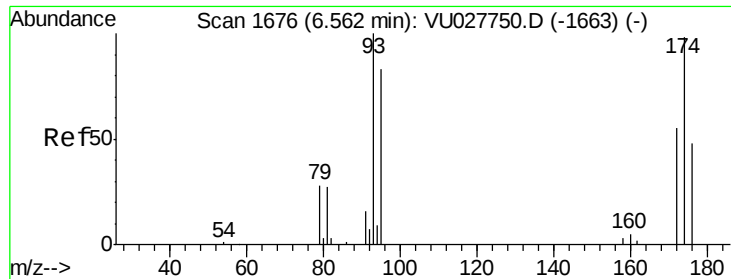
#41
Tetrahydrofuran
Concen: 0.198 ug/l
RT: 4.66 min Scan# 1084
Delta R.T. 0.00 min
Lab File: VU027757.D
Acq: 23 Oct 2018 10:27

Tgt Ion	Ratio	Lower	Upper
42	100		
72	935.3	30.6	45.8#
71	8.6	25.2	37.8#



Abundance Ion 42.00 (41.70 to 42.70): VU0
Ion 72.00 (71.70 to 72.70): VU0
Ion 71.00 (70.70 to 71.70): VU0





#43

Dibromomethane

Concen: 2.149 ug/l

RT: 6.76 min Scan# 1737

Delta R.T. 0.20 min

Lab File: VU027757.D

Acq: 23 Oct 2018 10:27

Instrument :

MSVOA_U

ClientSampleId :

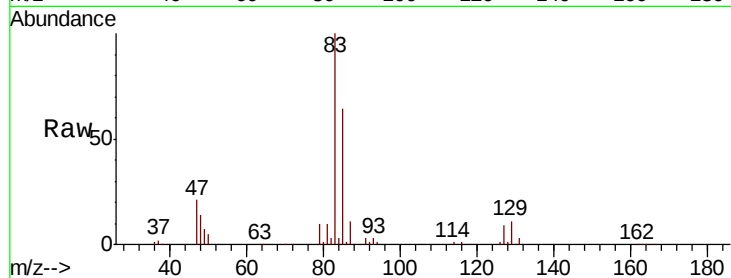
Tot Ion: 93 Resp: 4726

Ion Ratio Lower Upper

93 100

95 0.0 64.2 96.2#

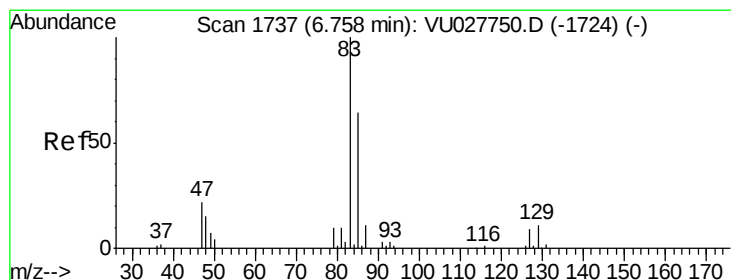
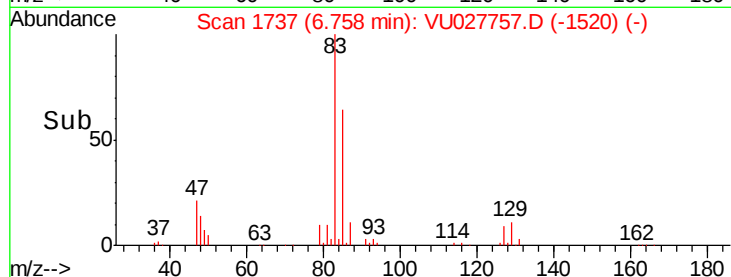
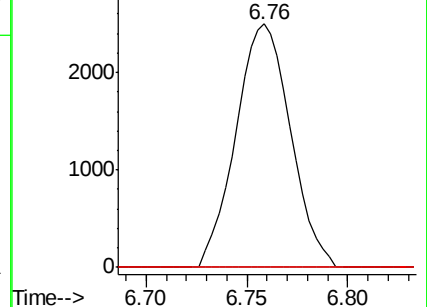
174 0.0 76.7 115.1#



Abundance Ion 93.00 (92.70 to 93.70): VU0

Ion 95.00 (94.70 to 95.70): VU0

Ion 174.00 (173.70 to 174.70): V



#44

Bromodichloromethane

Concen: 25.486 ug/l

RT: 6.76 min Scan# 1737

Delta R.T. 0.00 min

Lab File: VU027757.D

Acq: 23 Oct 2018 10:27

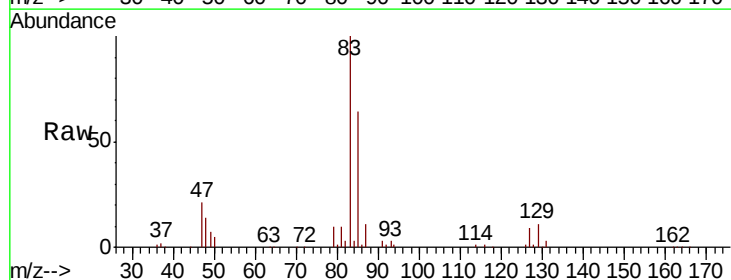
Tgt Ion: 83 Resp: 152186

Ion Ratio Lower Upper

83 100

85 63.9 51.5 77.3

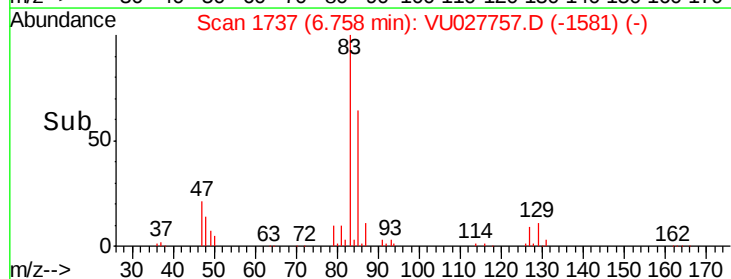
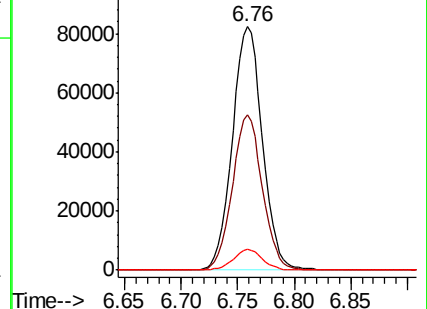
127 8.5 7.0 10.4

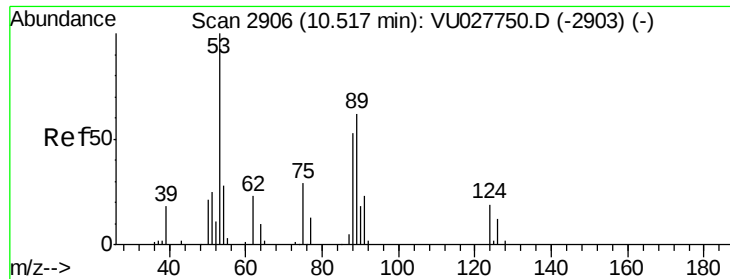


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 127.00 (126.70 to 127.70): V

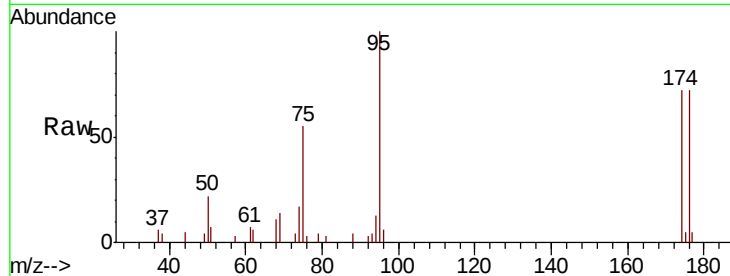




#46
t-1,4-Dichloro-2-butene
Concen: 2.293 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.21 min
Lab File: VU027757.D
Acq: 23 Oct 2018 10:27

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	68.2	102.4#
89	0.0	41.8	62.6#
88	4.6	33.8	50.8#



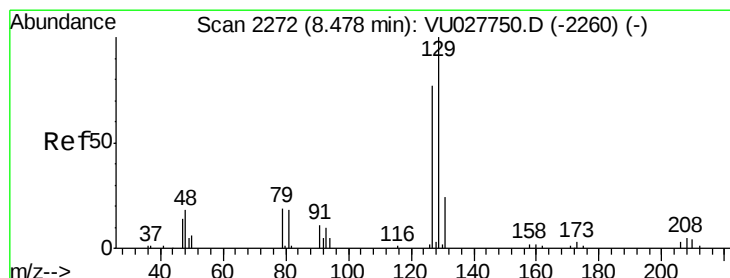
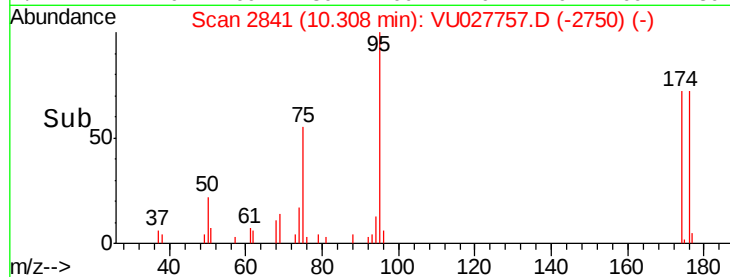
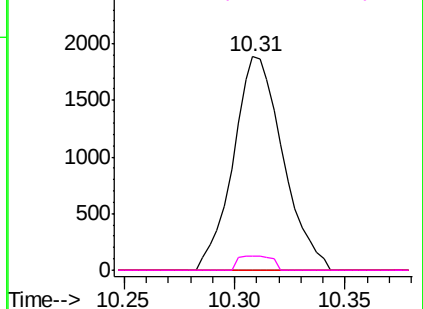
Abundance

Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

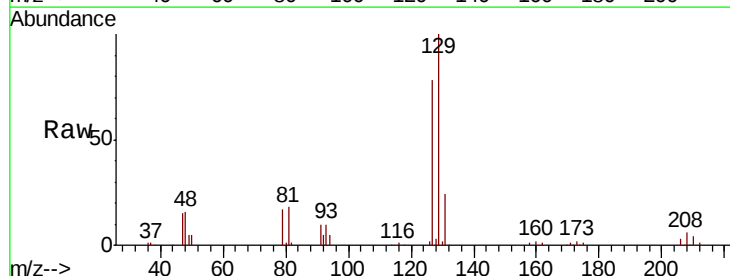
Ion 88.80 (88.50 to 89.50): VU0

Ion 87.80 (87.50 to 88.50): VU0



#55
Dibromochloromethane
Concen: 40.552 ug/l
RT: 8.48 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VU027757.D
Acq: 23 Oct 2018 10:27

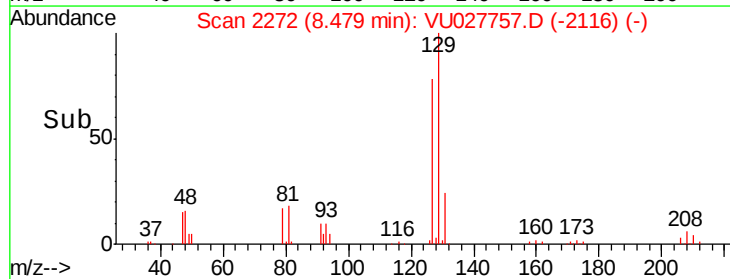
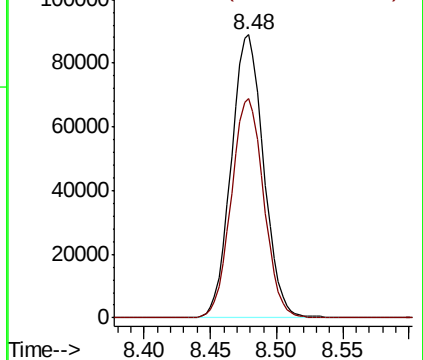
Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.6	61.9	92.9

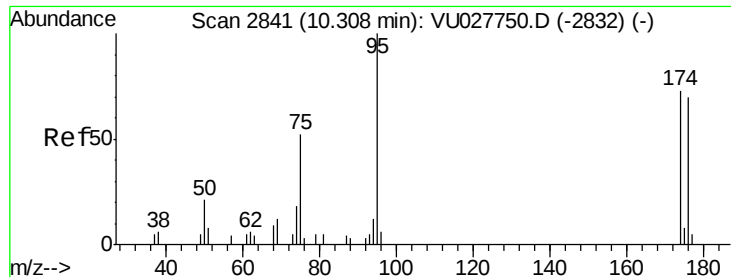


Abundance

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#57

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 10.31 min Scan# 2842

Delta R.T. 0.00 min

Lab File: VU027757.D

Acq: 23 Oct 2018 10:27

Instrument :

MSVOA_U

ClientSampleId :

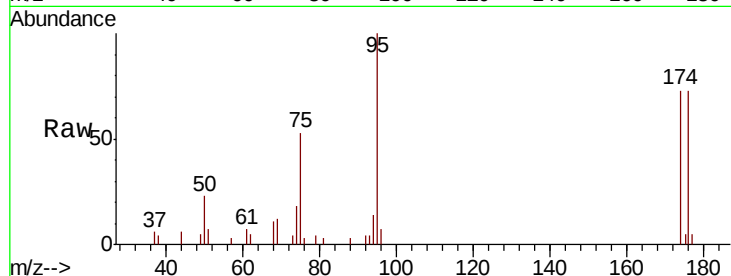
Tot Ion: 95 Resp: 5552

Ion Ratio Lower Upper

95 100

174 76.4 64.5 96.7

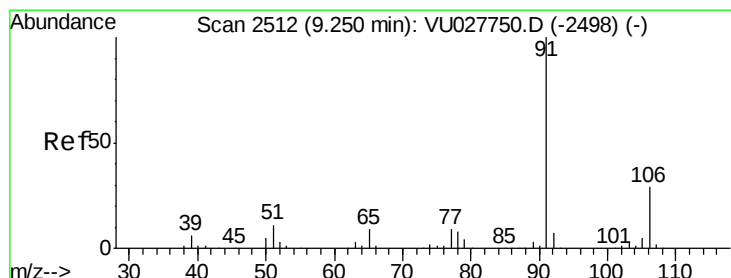
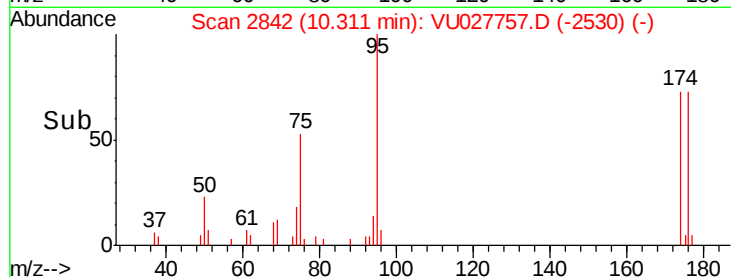
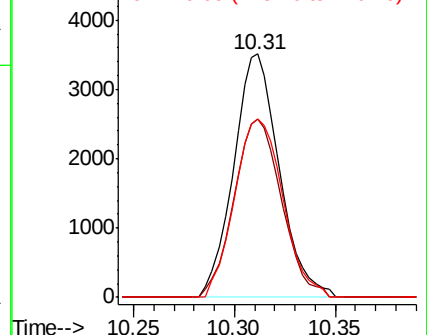
176 77.5 58.3 87.5



Abundance Ion 95.00 (94.70 to 95.70): VU027750.D (-2832) (-)

Ion 174.00 (173.70 to 174.70): VU027750.D (-2832) (-)

Ion 176.00 (175.70 to 176.70): VU027750.D (-2832) (-)



#63

Ethyl Benzene

Concen: 0.001 ug/l

RT: 9.26 min Scan# 2514

Delta R.T. 0.01 min

Lab File: VU027757.D

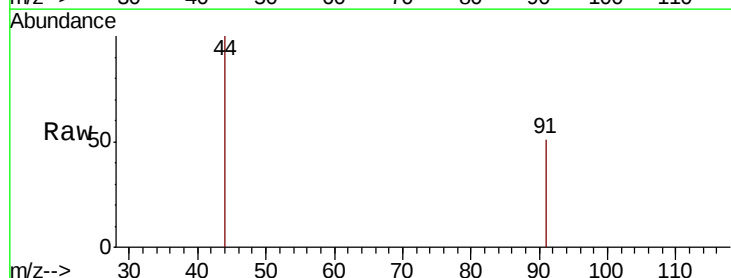
Acq: 23 Oct 2018 10:27

Tgt Ion: 91 Resp: 21

Ion Ratio Lower Upper

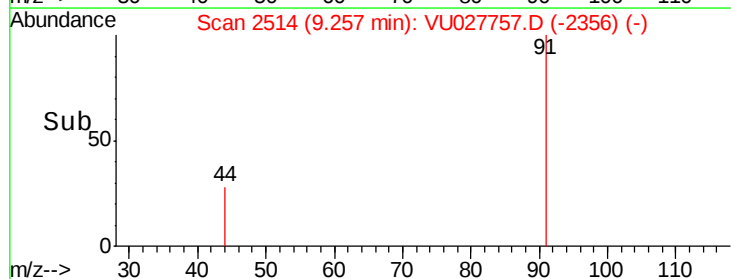
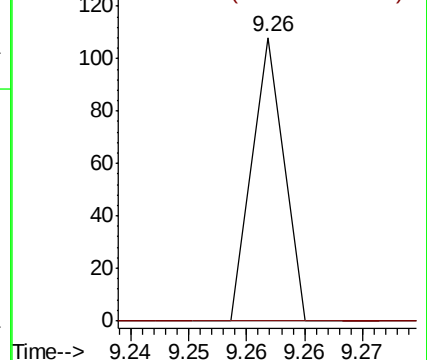
91 100

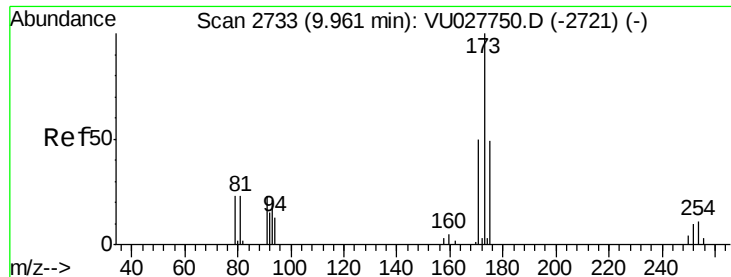
106 0.0 23.5 35.3#



Abundance Ion 91.00 (90.70 to 91.70): VU027750.D (-2498) (-)

Ion 106.00 (105.70 to 106.70): VU027750.D (-2498) (-)





#67

Bromoform

Concen: 38.227 ug/l

RT: 9.96 min Scan# 2732

Delta R.T. -0.00 min

Lab File: VU027757.D

Acq: 23 Oct 2018 10:27

Instrument :
MSVOA_U
ClientSampleId :

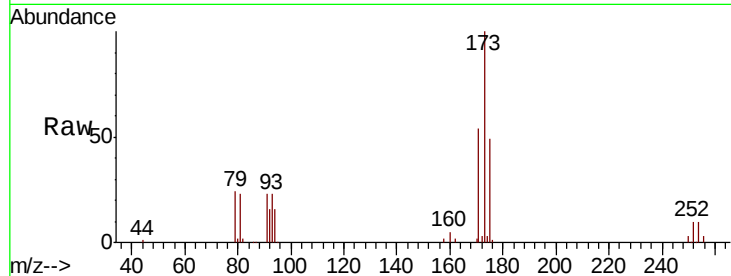
Tot Ion:173 Resp: 82627

Ion Ratio Lower Upper

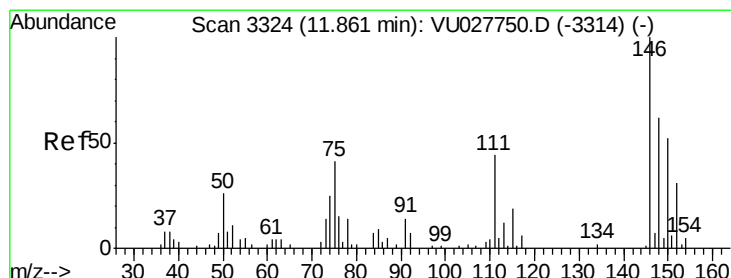
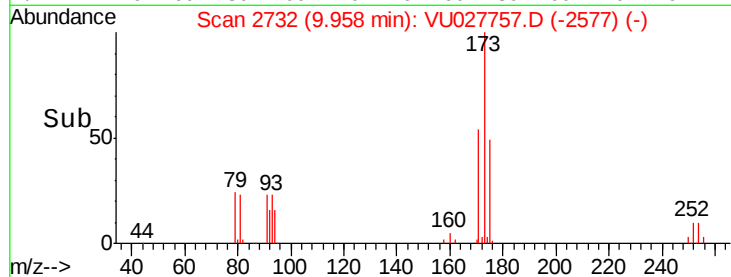
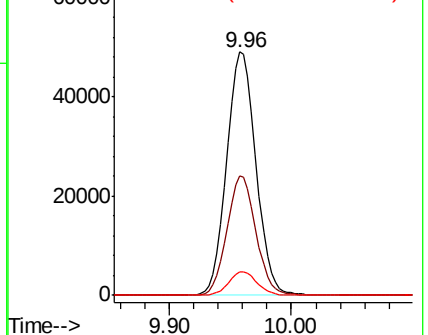
173 100

175 48.3 39.6 59.4

254 9.3 7.8 11.6



Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 253.75 (253.45 to 254.45): V



#68

1,2-Dichlorobenzene-d4

Concen: 38.227 ug/l

RT: 11.86 min Scan# 3325

Delta R.T. 0.00 min

Lab File: VU027757.D

Acq: 23 Oct 2018 10:27

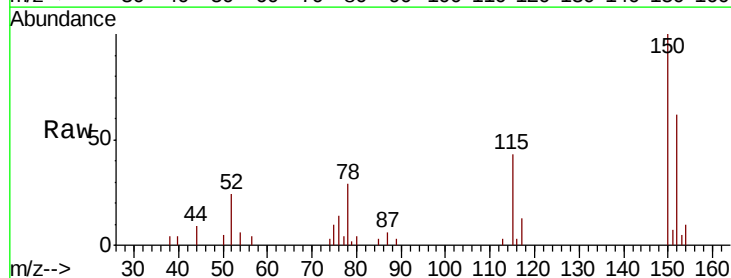
Tgt Ion:152 Resp: 5143

Ion Ratio Lower Upper

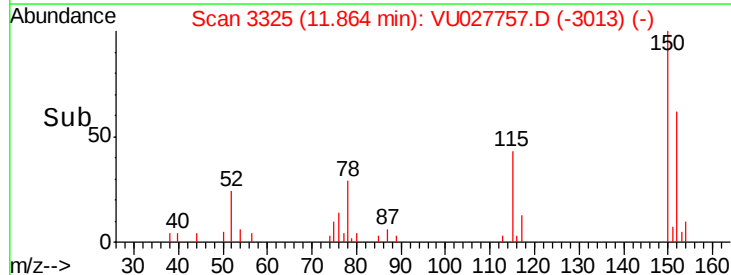
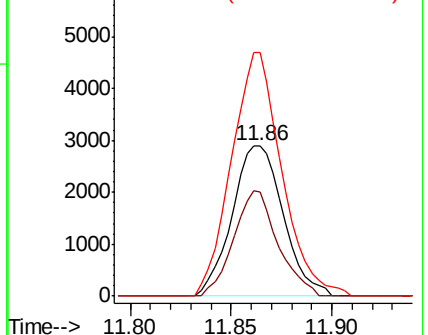
152 100

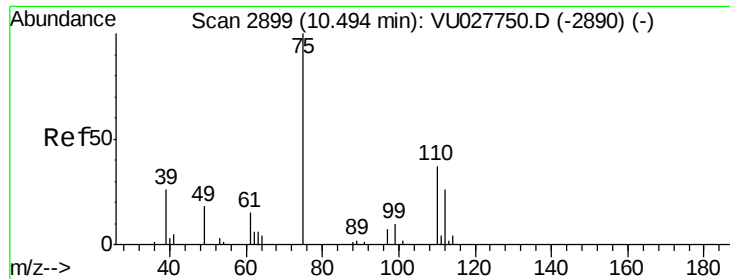
115 60.3 0.0 130.2

150 158.8 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

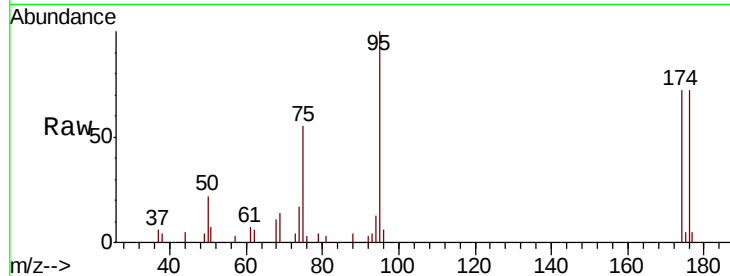




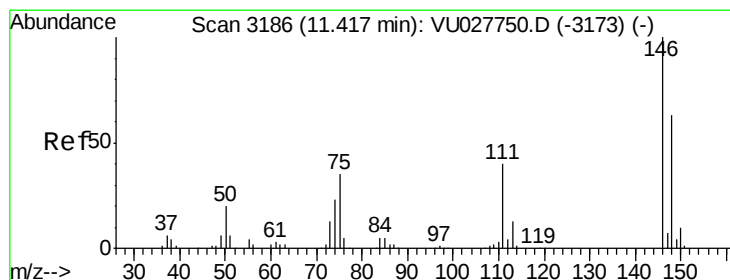
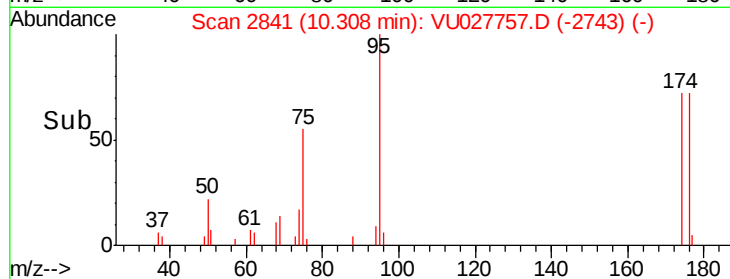
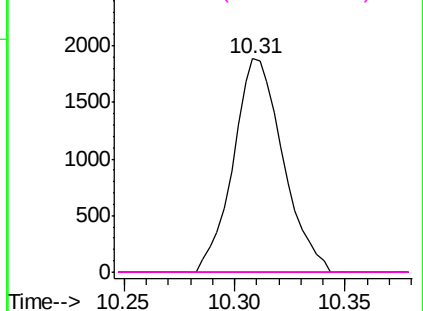
#71
 1,2,3-Trichloropropane
 Concen: 0.962 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. -0.19 min
 Lab File: VU027757.D
 Acq: 23 Oct 2018 10:27

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	75	Resp:	2951
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0
110	0.0	0.0	68.2
97	0.0	0.0	35.2

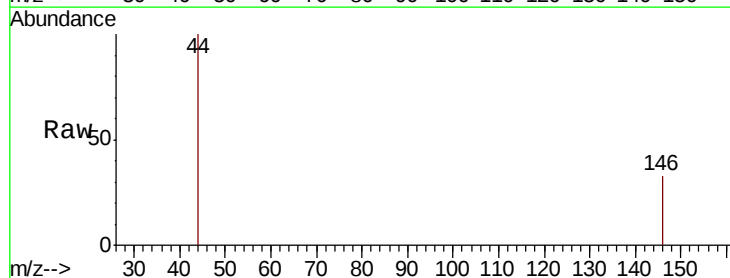


Abundance Ion 75.00 (74.70 to 75.70): VU027750.D (-2890) (-)
 Ion 77.00 (76.70 to 77.70): VU027750.D (-2890) (-)
 Ion 110.00 (109.70 to 110.70): VU027750.D (-2890) (-)
 Ion 97.00 (96.70 to 97.70): VU027750.D (-2890) (-)

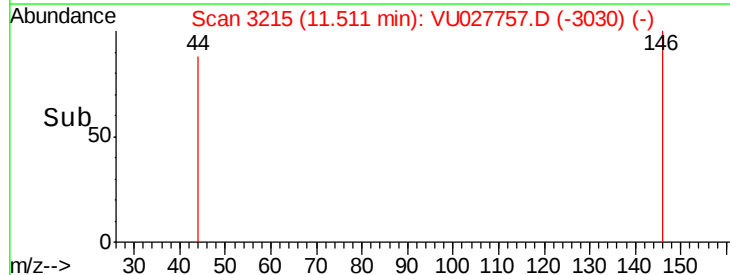
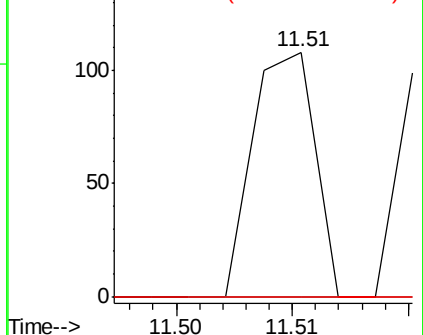


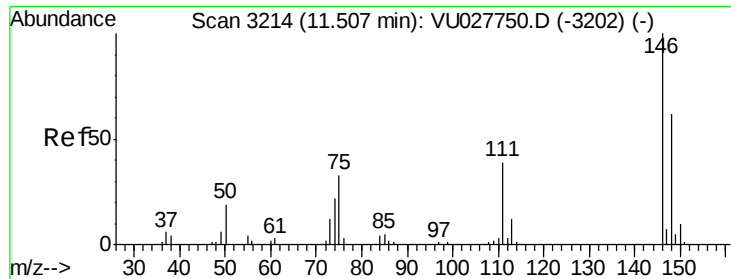
#82
 1,3-Dichlorobenzene
 Concen: 0.005 ug/l
 RT: 11.51 min Scan# 3215
 Delta R.T. 0.09 min
 Lab File: VU027757.D
 Acq: 23 Oct 2018 10:27

Tgt Ion:	146	Resp:	40
Ion	Ratio	Lower	Upper
146	100		
111	0.0	32.7	49.1#
148	0.0	50.6	75.8#



Abundance Ion 146.00 (145.70 to 146.70): VU027750.D (-3173) (-)
 Ion 111.00 (110.70 to 111.70): VU027750.D (-3173) (-)
 Ion 148.00 (147.70 to 148.70): VU027750.D (-3173) (-)





#83

1,4-Dichlorobenzene

Concen: 0.005 ug/l

RT: 11.51 min Scan# 3215

Delta R.T. 0.00 min

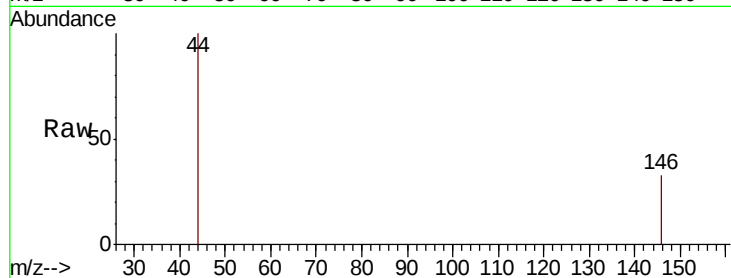
Lab File: VU027757.D

Acq: 23 Oct 2018 10:27

Instrument :

MSVOA_U

ClientSampleId :



Tot Ion:	146	Resp:	40
Ion	Ratio	Lower	Upper
146	100		
111	0.0	32.0	48.0#
148	0.0	50.9	76.3#

