

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\U101518\
 Data File : VU027654.D
 Acq On : 15 Oct 2018 10:04
 Operator : MD/SY
 Sample : J5380-07
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VHBLK02

Quant Time: Oct 16 07:47:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100518WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Oct 16 07:44:54 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	196518	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	182066	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	74086	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	65271	42.20	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	84.40%
7) Chloroethane-d5	1.68	69	56030	47.03	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	94.06%
11) 1,1-Dichloroethene-d2	2.27	63	98041	33.79	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	67.58%
21) 2-Butanone-d5	4.18	46	136940	109.68	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	109.68%
24) Chloroform-d	4.65	84	123133	49.78	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.56%
26) 1,2-Dichloroethane-d4	5.31	65	91526	52.80	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	105.60%
32) Benzene-d6	5.34	84	255153	48.90	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.80%
36) 1,2-Dichloropropane-d6	6.33	67	93343	52.23	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	104.46%
41) Toluene-d8	7.57	98	210694	45.17	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.34%
43) trans-1,3-Dichloropropene-	7.85	79	40250	46.73	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.46%
47) 2-Hexanone-d5	8.31	63	92733	102.73	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	102.73%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	122585	52.45	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	104.90%
64) 1,2-Dichlorobenzene-d4	11.86	152	75322	51.97	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.94%

Target Compounds

					Qvalue
8) Chloroethane	1.70	64	633	0.483 ug/L #	79
9) Trichlorofluoromethane	1.89	101	1219	0.557 ug/L	86
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	1313	1.010 ug/L #	52
12) 1,1-Dichloroethene	2.28	96	1152	0.907 ug/L #	1
13) Acetone	2.32	43	2079	2.030 ug/L	91
14) Carbon disulfide	2.48	76	2454	0.526 ug/L	100
15) Methyl Acetate	2.62	43	1803	0.879 ug/L #	78
16) Methylene chloride	2.70	84	987	0.640 ug/L	96
17) trans-1,2-Dichloroethene	2.99	96	701	0.499 ug/L	87
18) Methyl tert-butyl Ether	3.00	73	2285	0.489 ug/L #	78
25) Chloroform	4.67	83	10592	3.777 ug/L	99
33) Benzene	5.40	78	3006	0.502 ug/L	100
34) Trichloroethene	6.19	95	783	0.544 ug/L	84
40) 4-Methyl-2-pentanone	7.47	43	2375	0.936 ug/L #	91
42) Toluene	7.64	91	3370	0.561 ug/L	98
44) trans-1,3-Dichloropropene	7.85	75	2854	1.207 ug/L	93
45) 1,1,2-Trichloroethane	8.07	97	684	0.492 ug/L	92

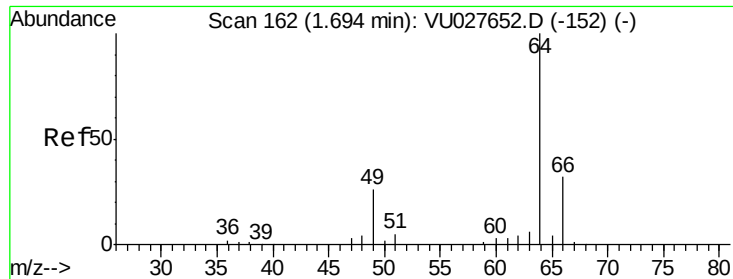
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU101518\
Data File : VU027654.D
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100518WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Oct 16 07:44:54 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.37	43	3566	1.779	ug/L #	75
52) Ethylbenzene	9.26	91	2815	0.422	ug/L	96
58) 1,1,2,2-Tetrachloroethane	10.46	83	1428	0.586	ug/L #	91
59) 1,2,3-Trichloropropane	10.49	75	1093	0.557	ug/L	98
62) 1,3-Dichlorobenzene	11.42	146	1123	0.487	ug/L	98
63) 1,4-Dichlorobenzene	11.51	146	1408	0.585	ug/L #	90

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



#8

Chloroethane

Concen: 0.483 ug/L

RT: 1.70 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU027654.D

Acq: 15 Oct 2018 10:04

Instrument :

MSVOA_U

ClientSampleId :

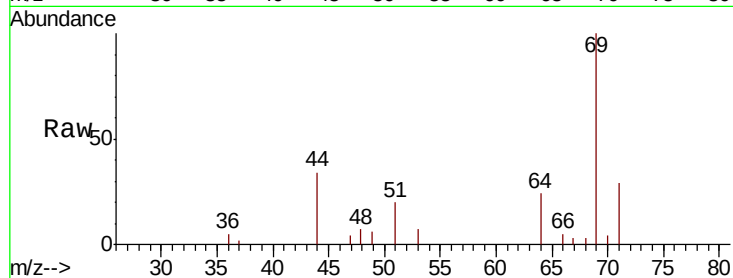
VHBLK02

Tgt Ion: 64 Resp: 633

Ion Ratio Lower Upper

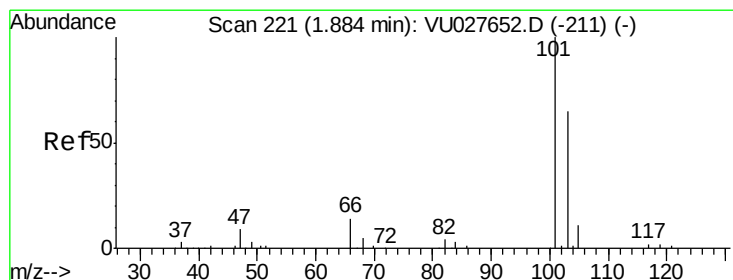
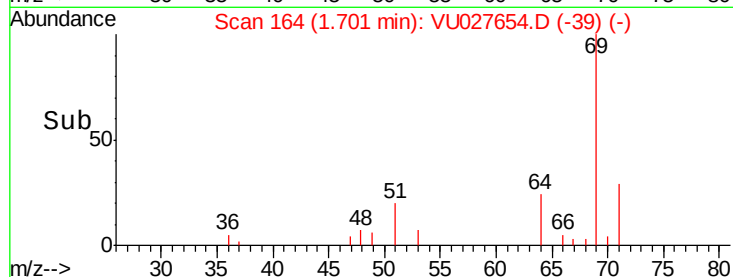
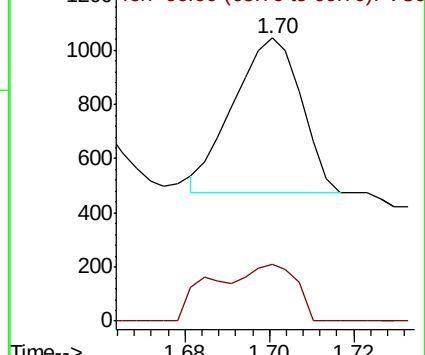
64 100

66 19.9 22.0 40.8#



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0



#9

Trichlorofluoromethane

Concen: 0.557 ug/L

RT: 1.89 min Scan# 222

Delta R.T. -0.00 min

Lab File: VU027654.D

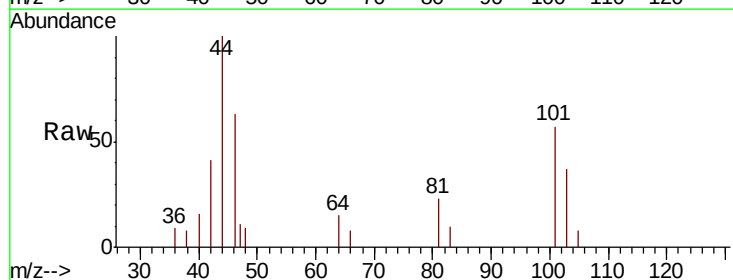
Acq: 15 Oct 2018 10:04

Tgt Ion: 101 Resp: 1219

Ion Ratio Lower Upper

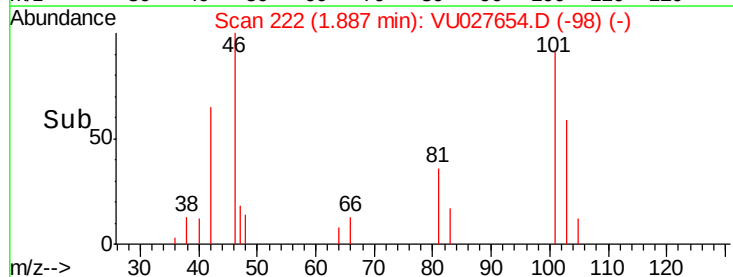
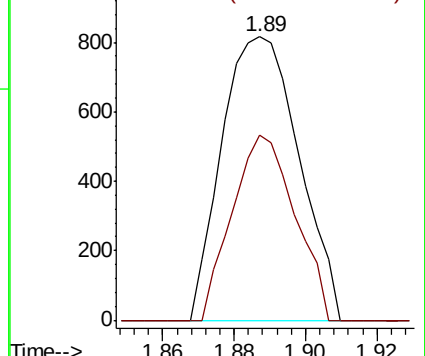
101 100

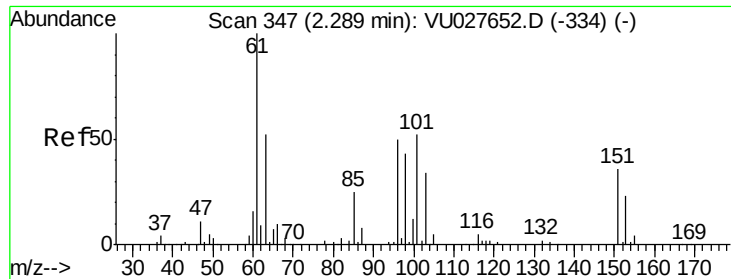
103 53.2 51.1 76.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 1.010 ug/L

RT: 2.28 min Scan# 343

Delta R.T. -0.01 min

Lab File: VU027654.D

Acq: 15 Oct 2018 10:04

Instrument :

MSVOA_U

ClientSampleId :

VHBLK02

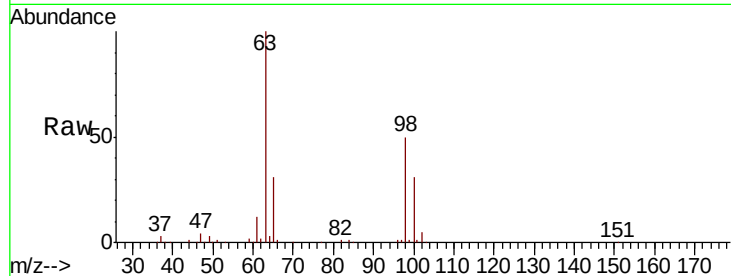
Tgt Ion:101 Resp: 1313

Ion Ratio Lower Upper

101 100

85 21.7 35.9 53.9#

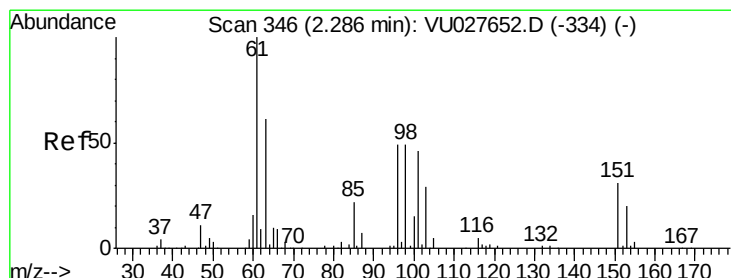
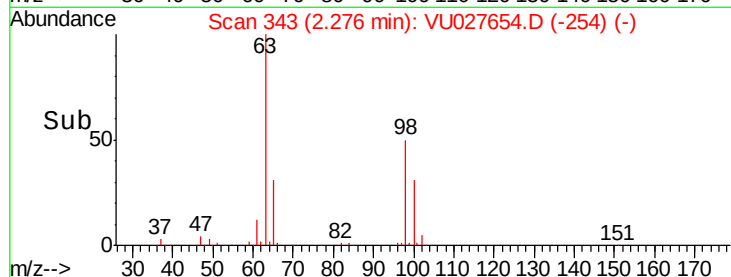
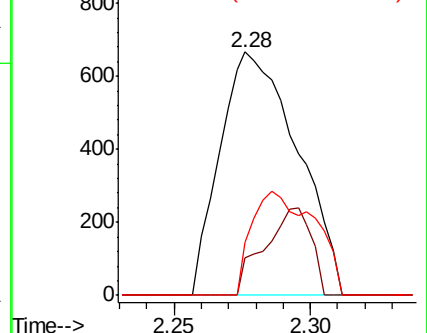
151 23.8 55.7 83.5#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.907 ug/L

RT: 2.28 min Scan# 343

Delta R.T. -0.01 min

Lab File: VU027654.D

Acq: 15 Oct 2018 10:04

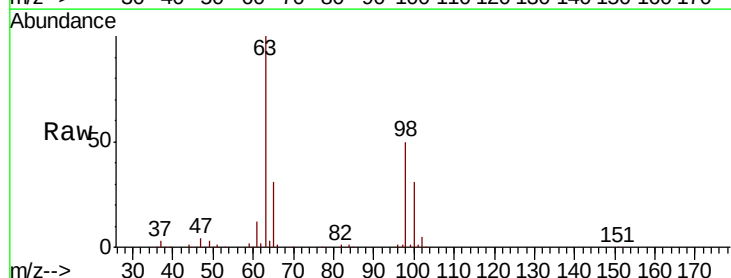
Tgt Ion: 96 Resp: 1152

Ion Ratio Lower Upper

96 100

61 1213.4 135.2 251.0#

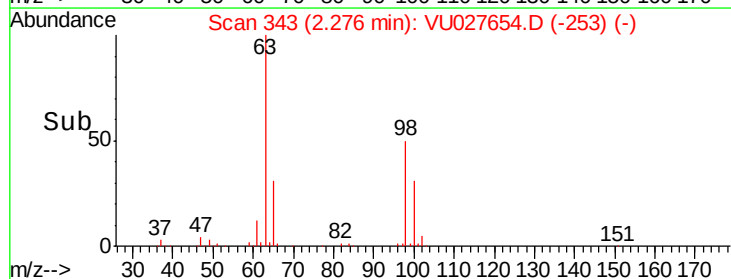
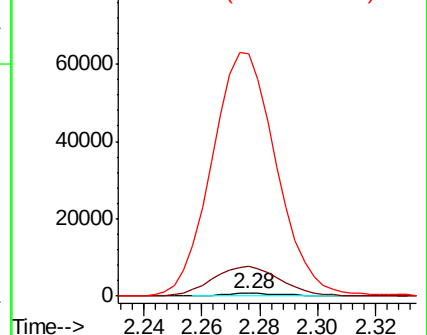
63 9966.9 94.3 175.1#

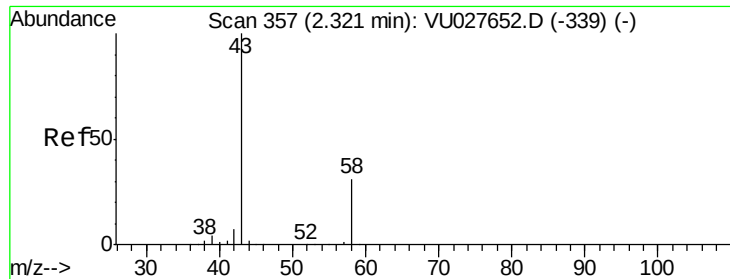


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 2.030 ug/L

RT: 2.32 min Scan# 358

Delta R.T. -0.00 min

Lab File: VU027654.D

Acq: 15 Oct 2018 10:04

Instrument :

MSVOA_U

ClientSampleId :

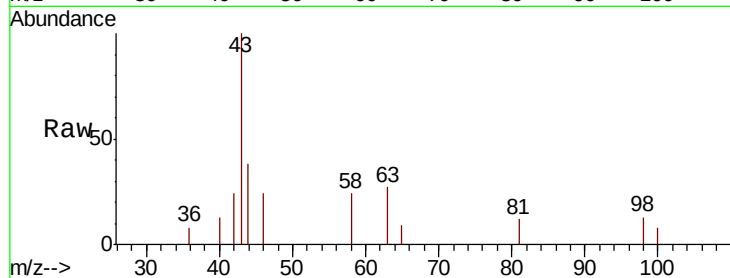
VHBLK02

Tgt Ion: 43 Resp: 2079

Ion Ratio Lower Upper

43 100

58 25.5 0.0 60.8



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

2.32

1500

1000

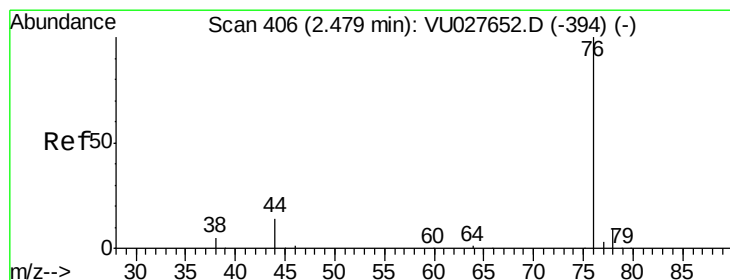
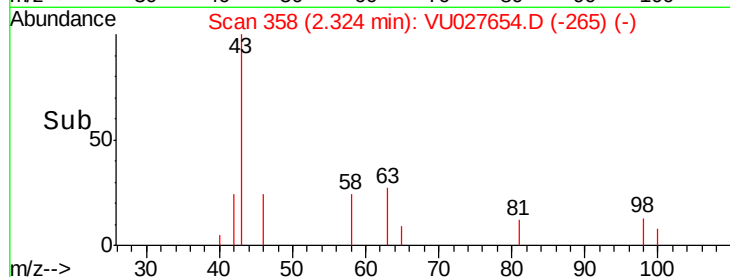
500

0

Time-->

2.30

2.35



#14

Carbon disulfide

Concen: 0.526 ug/L

RT: 2.48 min Scan# 407

Delta R.T. 0.00 min

Lab File: VU027654.D

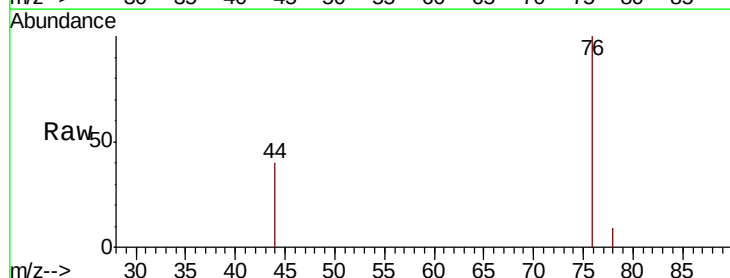
Acq: 15 Oct 2018 10:04

Tgt Ion: 76 Resp: 2454

Ion Ratio Lower Upper

76 100

78 9.4 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0

2.48

1500

1000

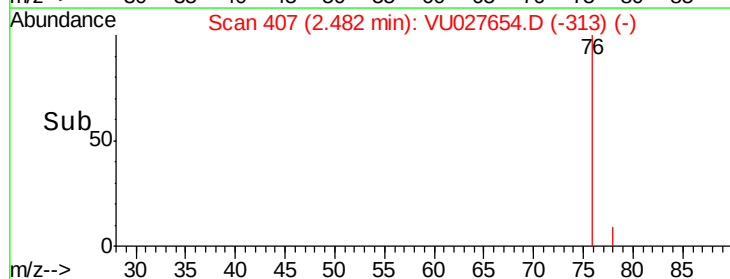
500

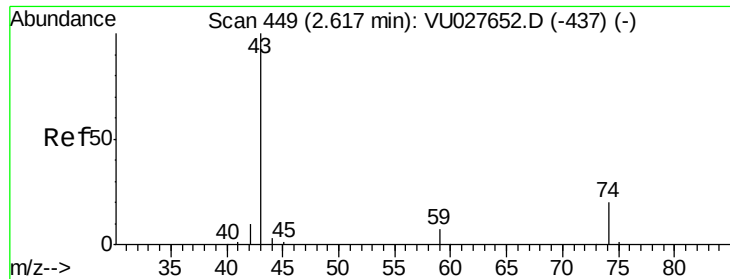
0

Time-->

2.45

2.50

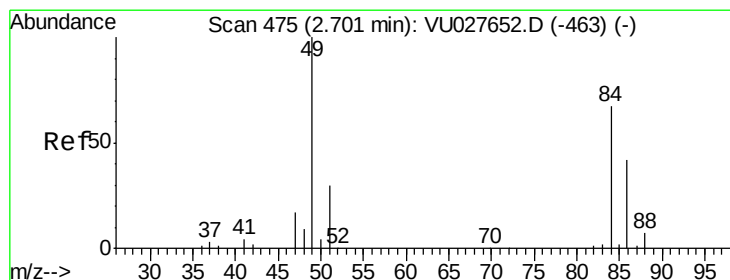
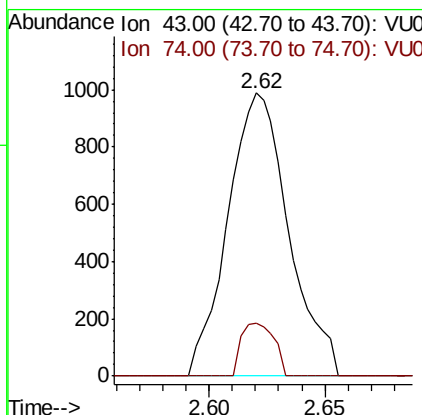
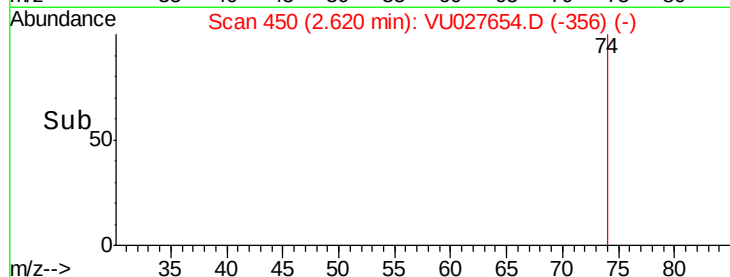
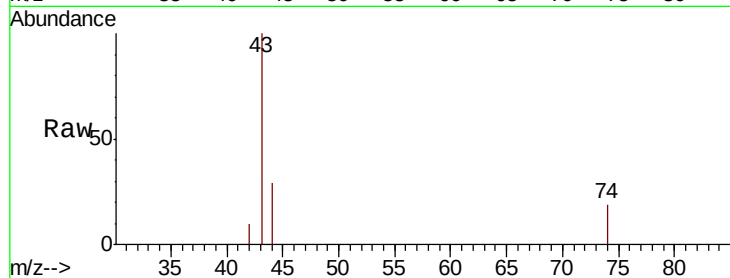




#15
Methyl Acetate
Concen: 0.879 ug/L
RT: 2.62 min Scan# 450
Delta R.T. 0.00 min
Lab File: VU027654.D
Acq: 15 Oct 2018 10:04

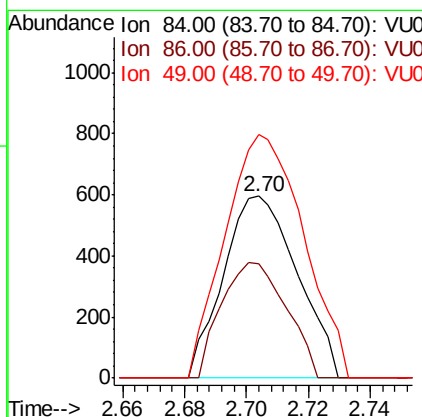
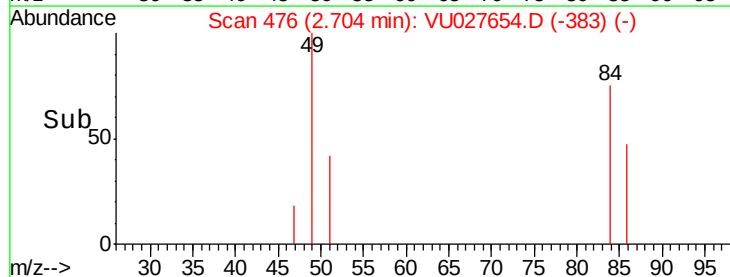
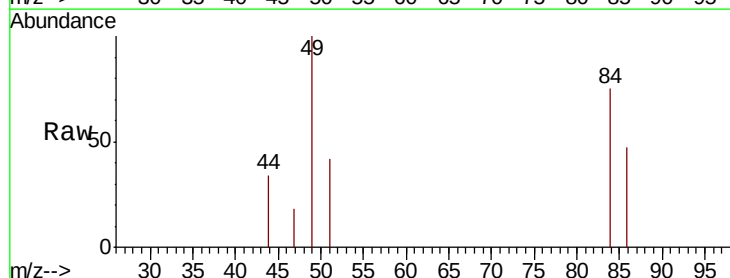
Instrument :
MSVOA_U
ClientSampled :
VHBLK02

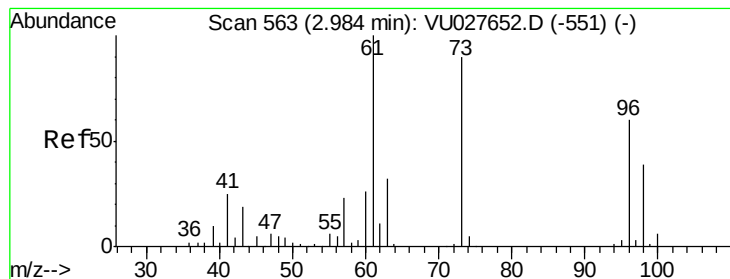
Tgt Ion: 43 Resp: 1803
Ion Ratio Lower Upper
43 100
74 10.1 16.0 24.0#



#16
Methylene chloride
Concen: 0.640 ug/L
RT: 2.70 min Scan# 476
Delta R.T. -0.00 min
Lab File: VU027654.D
Acq: 15 Oct 2018 10:04

Tgt Ion: 84 Resp: 987
Ion Ratio Lower Upper
84 100
86 62.8 44.6 82.8
49 133.7 98.3 182.5





#17

trans-1,2-Dichloroethene

Concen: 0.499 ug/L

RT: 2.99 min Scan# 565

Delta R.T. 0.00 min

Lab File: VU027654.D

Acq: 15 Oct 2018 10:04

Instrument :

MSVOA_U

ClientSampleId :

VHBLK02

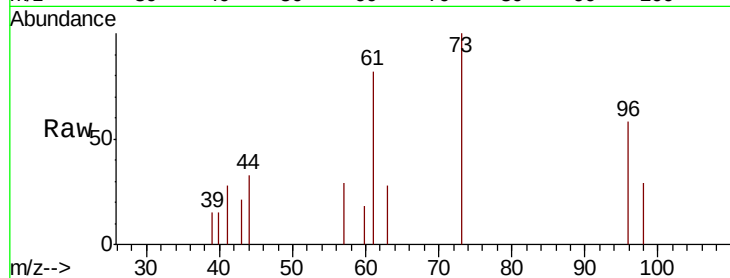
Tgt Ion: 96 Resp: 701

Ion Ratio Lower Upper

96 100

61 142.7 110.9 205.9

98 50.0 43.7 81.1



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

800

600

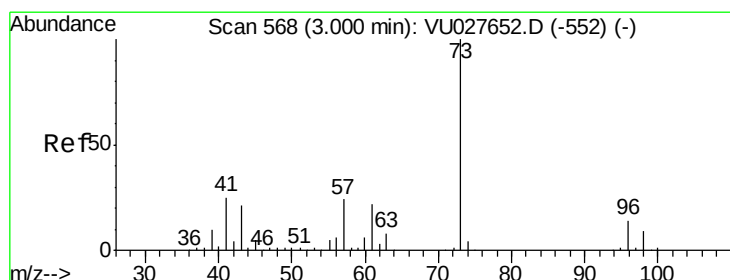
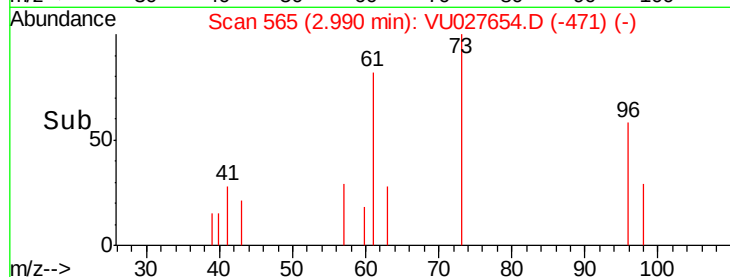
400

200

0

2.96 2.98 3.00 3.02

Time-->



#18

Methyl tert-butyl Ether

Concen: 0.489 ug/L

RT: 3.00 min Scan# 569

Delta R.T. -0.00 min

Lab File: VU027654.D

Acq: 15 Oct 2018 10:04

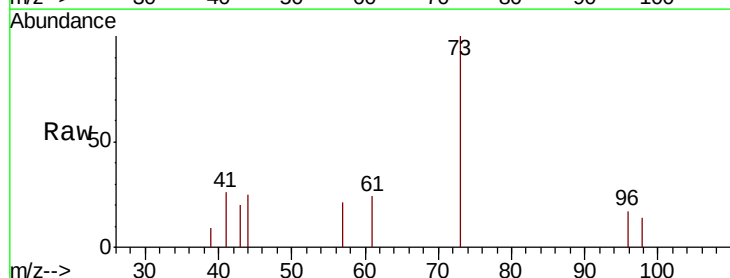
Tgt Ion: 73 Resp: 2285

Ion Ratio Lower Upper

73 100

43 17.2 16.5 24.7

57 6.8 19.4 29.0#



Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

1500

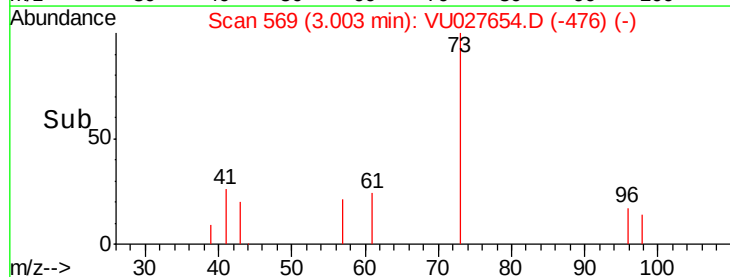
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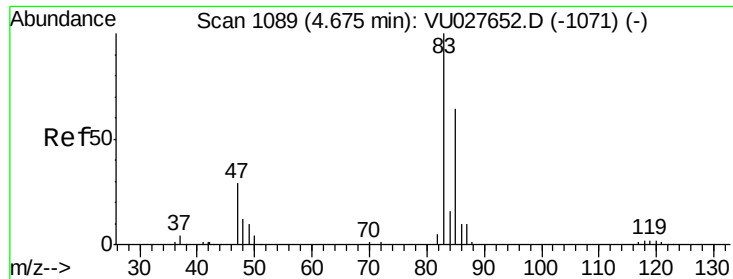
500

0

2.95 3.00 3.05

Time-->

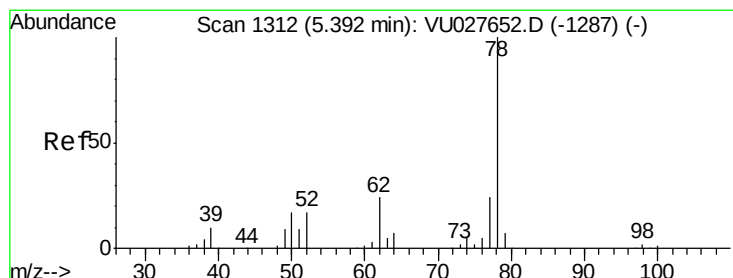
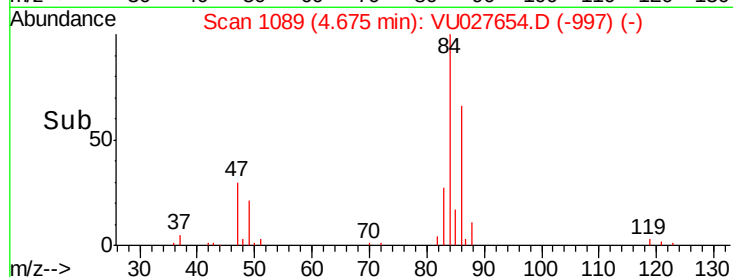
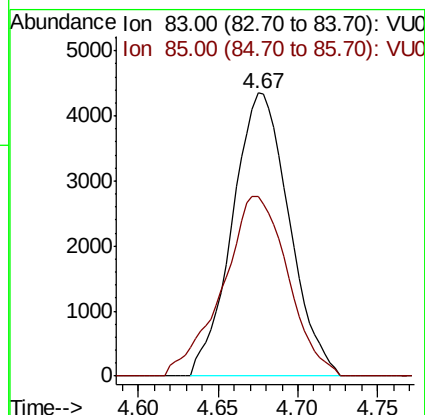
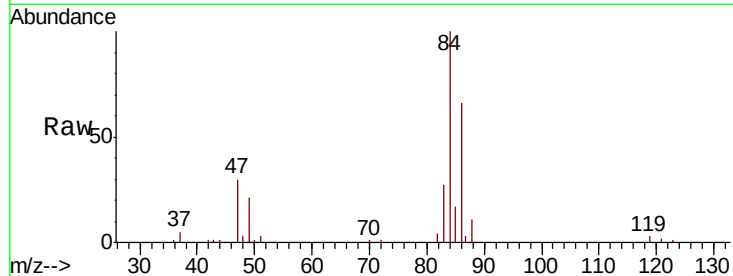




#25
Chloroform
Concen: 3.777 ug/L
RT: 4.67 min Scan# 1089
Delta R.T. -0.00 min
Lab File: VU027654.D
Acq: 15 Oct 2018 10:04

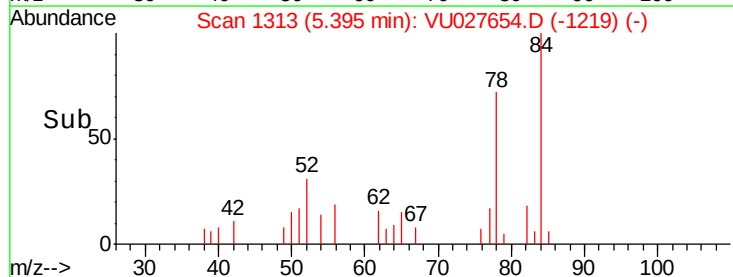
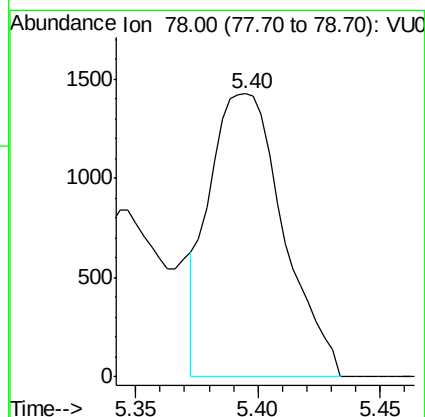
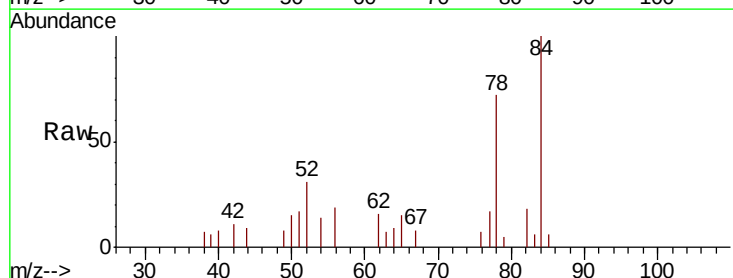
Instrument :
MSVOA_U
ClientSampleId :
VHBLK02

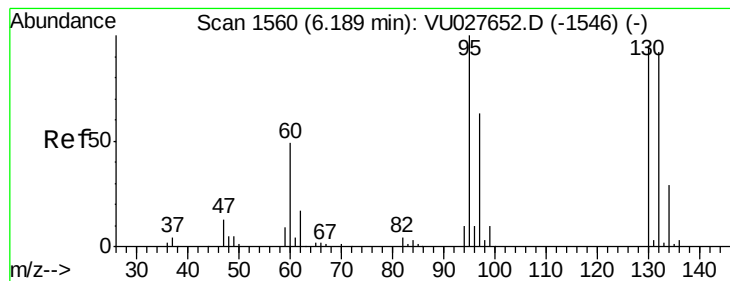
Tgt Ion: 83 Resp: 10592
Ion Ratio Lower Upper
83 100
85 63.3 45.0 83.6



#33
Benzene
Concen: 0.502 ug/L
RT: 5.40 min Scan# 1313
Delta R.T. 0.00 min
Lab File: VU027654.D
Acq: 15 Oct 2018 10:04

Tgt Ion: 78 Resp: 3006





#34

Trichloroethene

Concen: 0.544 ug/L

RT: 6.19 min Scan# 1561

Delta R.T. 0.00 min

Lab File: VU027654.D

Acq: 15 Oct 2018 10:04

Instrument :

MSVOA_U

ClientSampleId :

VHBLK02

Tgt Ion: 95 Resp: 783

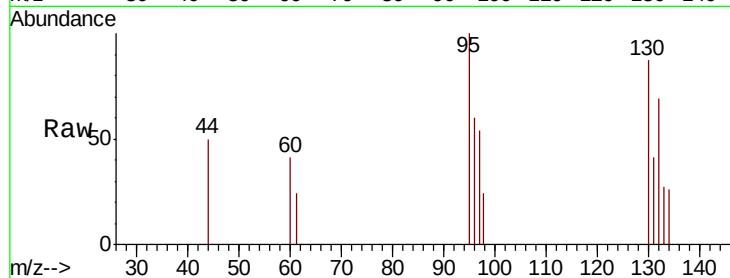
Ion Ratio Lower Upper

95 100

97 53.8 44.9 83.3

132 68.8 64.8 120.4

130 87.3 67.1 124.7

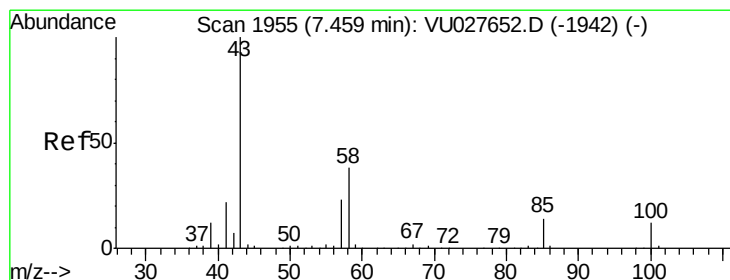
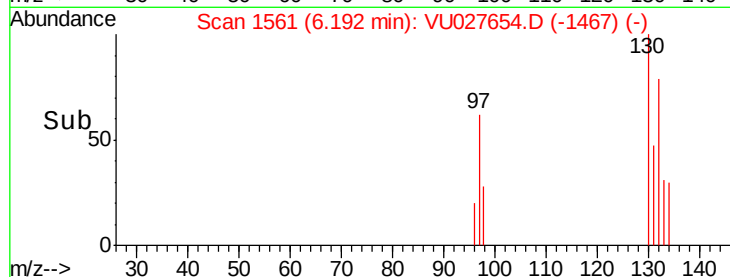
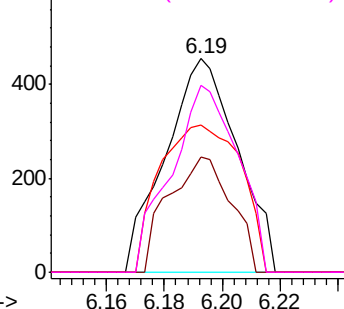


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#40

4-Methyl-2-pentanone

Concen: 0.936 ug/L

RT: 7.47 min Scan# 1958

Delta R.T. 0.01 min

Lab File: VU027654.D

Acq: 15 Oct 2018 10:04

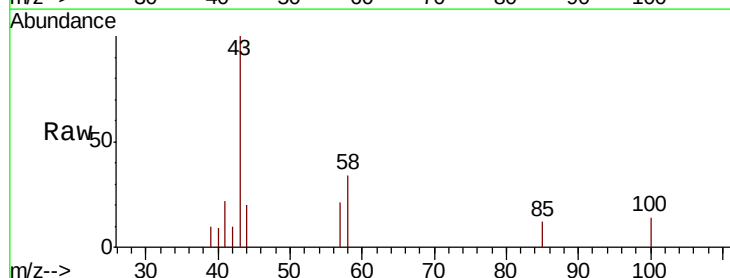
Tgt Ion: 43 Resp: 2375

Ion Ratio Lower Upper

43 100

58 34.1 30.7 46.1

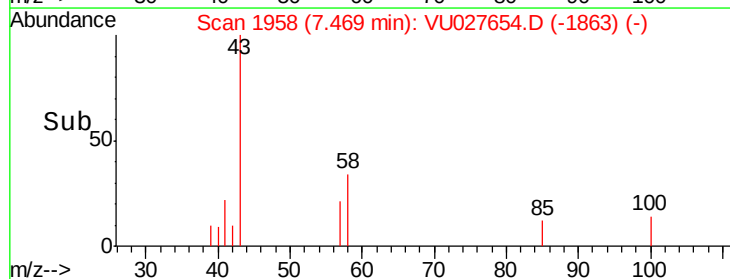
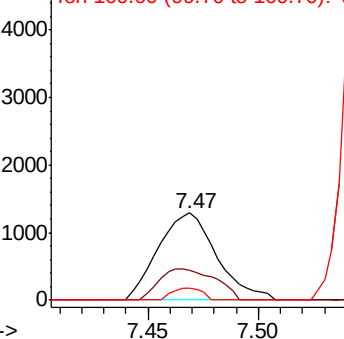
100 7.0 10.2 15.4#

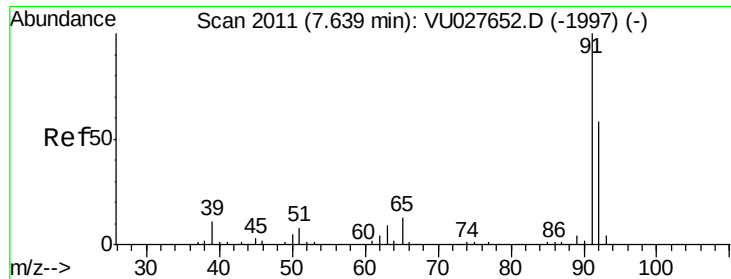


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

Ion 100.00 (99.70 to 100.70): VU0





#42

Toluene

Concen: 0.561 ug/L

RT: 7.64 min Scan# 2012

Delta R.T. 0.00 min

Lab File: VU027654.D

Acq: 15 Oct 2018 10:04

Instrument :

MSVOA_U

ClientSampleId :

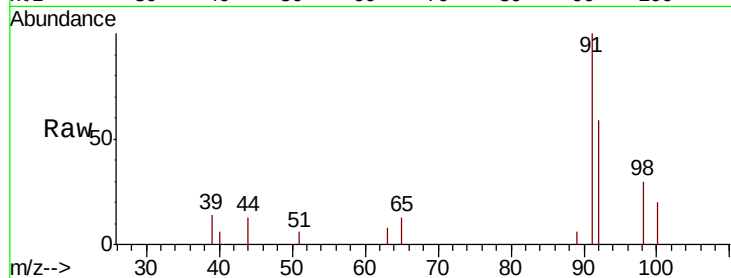
VHBLK02

Tgt Ion: 91 Resp: 3370

Ion Ratio Lower Upper

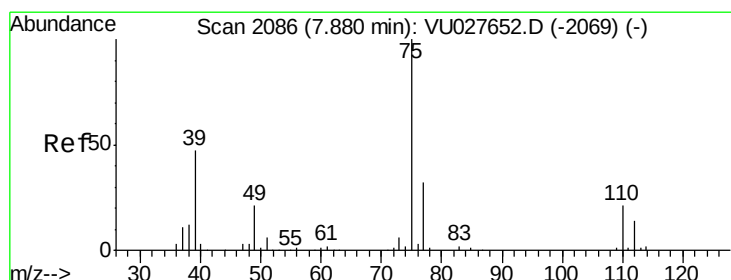
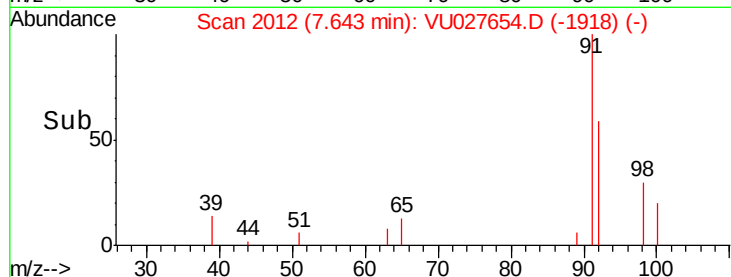
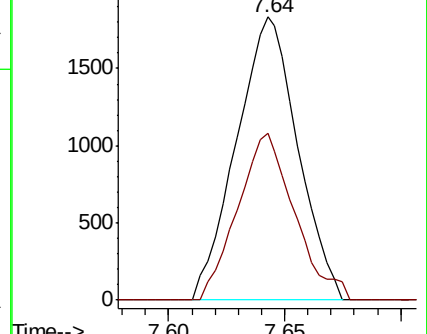
91 100

92 58.8 40.2 74.6



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0



#44

trans-1,3-Dichloropropene

Concen: 1.207 ug/L

RT: 7.85 min Scan# 2077

Delta R.T. -0.03 min

Lab File: VU027654.D

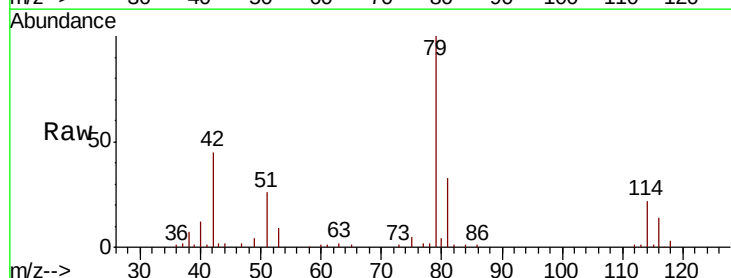
Acq: 15 Oct 2018 10:04

Tgt Ion: 75 Resp: 2854

Ion Ratio Lower Upper

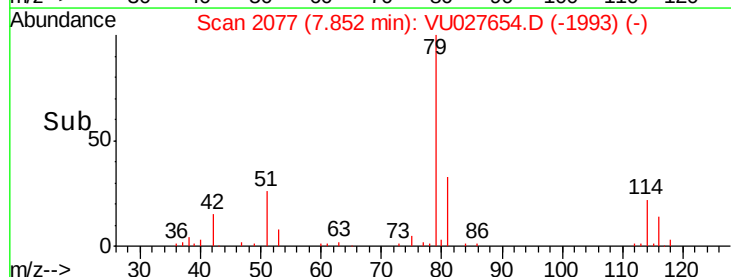
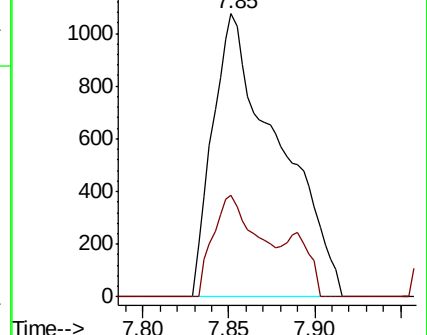
75 100

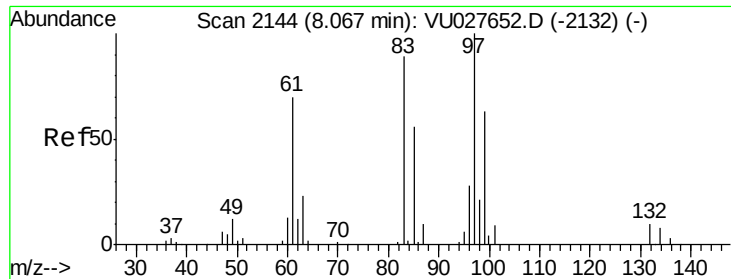
77 35.8 22.2 41.2



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

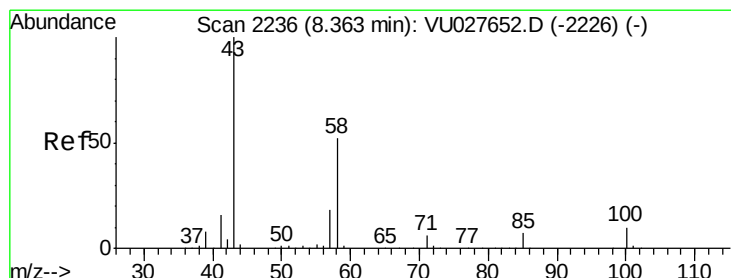
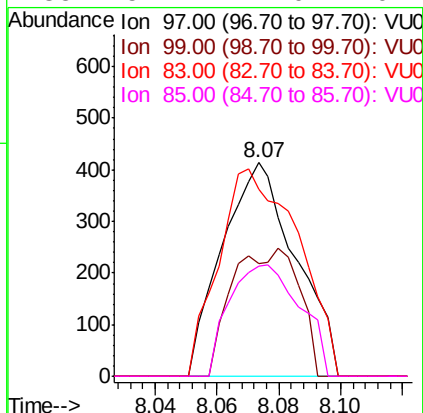
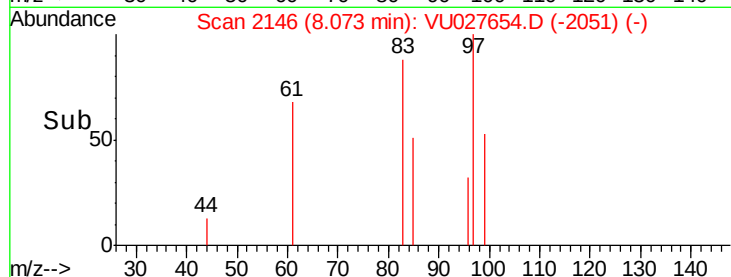
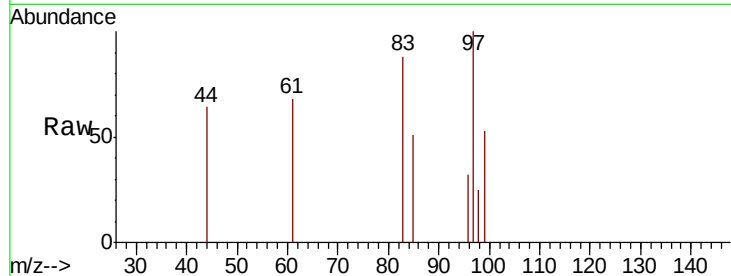




#45
 1,1,2-Trichloroethane
 Concen: 0.492 ug/L
 RT: 8.07 min Scan# 2146
 Delta R.T. 0.01 min
 Lab File: VU027654.D
 Acq: 15 Oct 2018 10:04

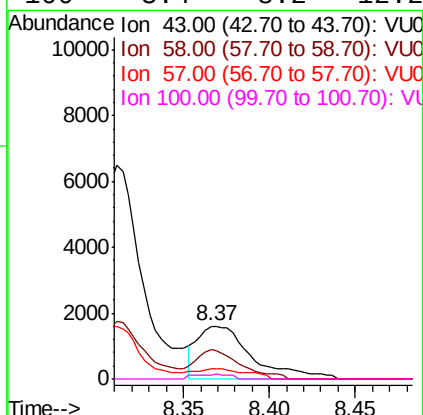
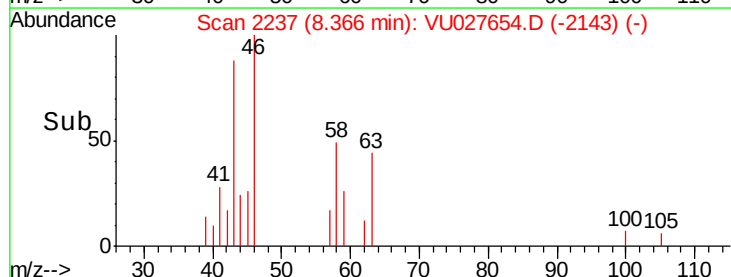
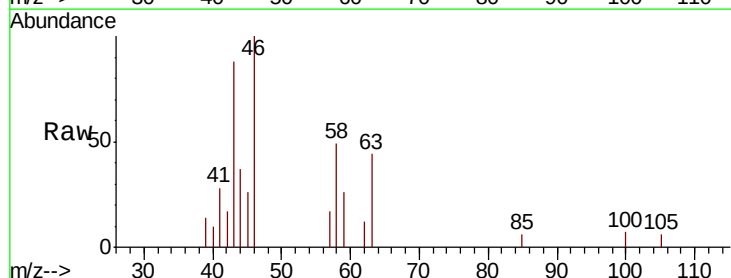
Instrument :
 MSVOA_U
 ClientSampleId :
 VHBLK02

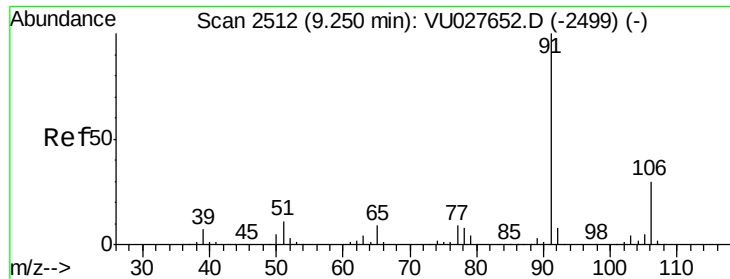
Tgt Ion:	97	Resp:	684
Ion	Ratio	Lower	Upper
97	100		
99	52.7	43.2	80.2
83	87.7	64.3	119.5
85	51.4	41.0	76.2



#48
 2-Hexanone
 Concen: 1.779 ug/L
 RT: 8.37 min Scan# 2237
 Delta R.T. 0.00 min
 Lab File: VU027654.D
 Acq: 15 Oct 2018 10:04

Tgt Ion:	43	Resp:	3566
Ion	Ratio	Lower	Upper
43	100		
58	36.4	42.7	64.1#
57	4.2	14.5	21.7#
100	3.4	8.2	12.2#





#52

Ethylbenzene

Concen: 0.422 ug/L

RT: 9.26 min Scan# 2514

Delta R.T. 0.01 min

Lab File: VU027654.D

Acq: 15 Oct 2018 10:04

Instrument :

MSVOA_U

ClientSampleId :

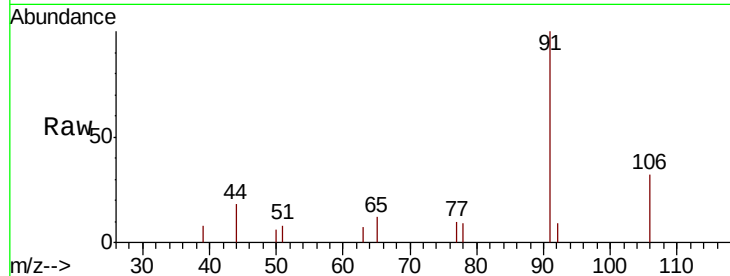
VHBLK02

Tgt Ion: 91 Resp: 2815

Ion Ratio Lower Upper

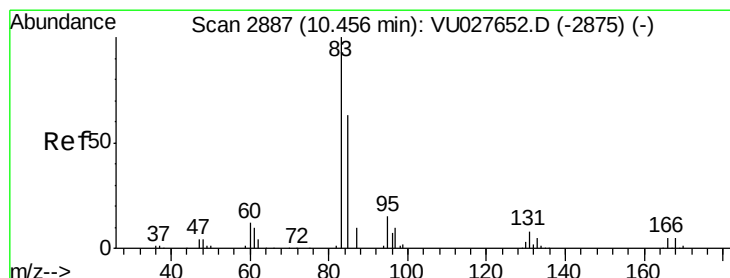
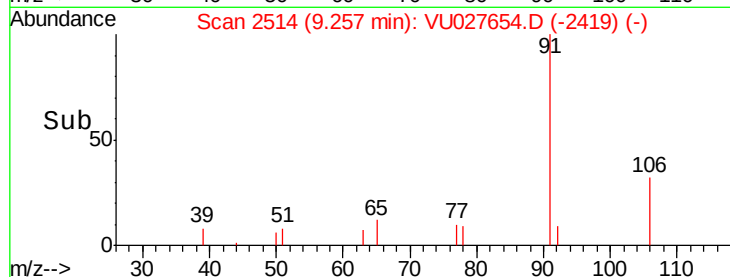
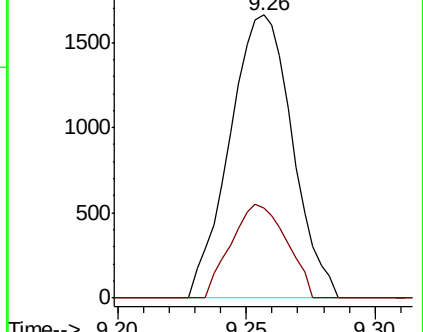
91 100

106 31.9 20.6 38.4



Abundance Ion 91.00 (90.70 to 91.70): VU027652.D (-2499) (-)

Ion 106.00 (105.70 to 106.70): VU027652.D (-2499) (-)



#58

1,1,2,2-Tetrachloroethane

Concen: 0.586 ug/L

RT: 10.46 min Scan# 2887

Delta R.T. -0.00 min

Lab File: VU027654.D

Acq: 15 Oct 2018 10:04

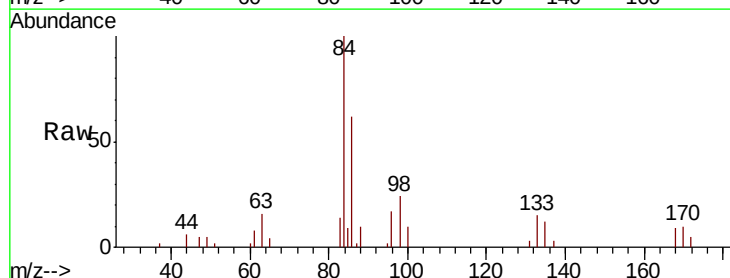
Tgt Ion: 83 Resp: 1428

Ion Ratio Lower Upper

83 100

85 60.9 45.2 84.0

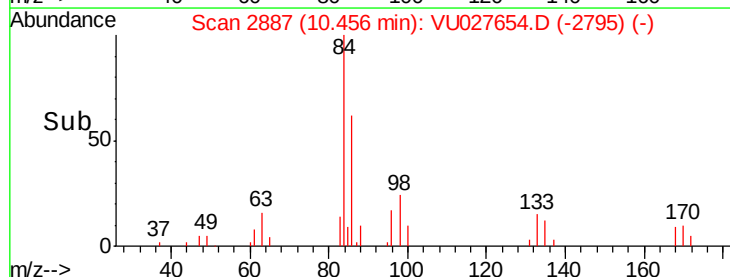
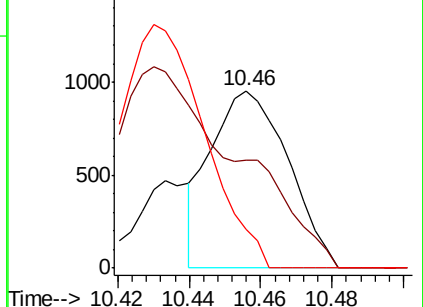
131 22.2 6.7 10.1#

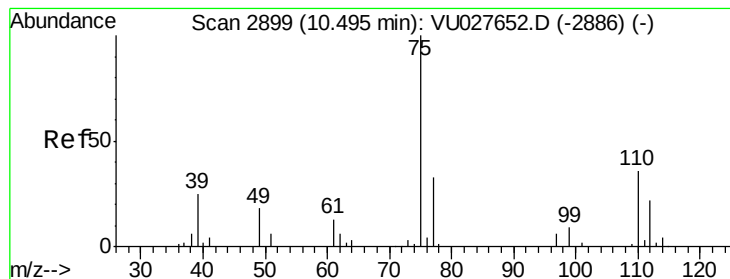


Abundance Ion 83.00 (82.70 to 83.70): VU027652.D (-2875) (-)

Ion 85.00 (84.70 to 85.70): VU027652.D (-2875) (-)

Ion 131.00 (130.70 to 131.70): VU027652.D (-2875) (-)





#59

1,2,3-Trichloropropane

Concen: 0.557 ug/L

RT: 10.49 min Scan# 2899

Delta R.T. -0.00 min

Lab File: VU027654.D

Acq: 15 Oct 2018 10:04

Instrument :

MSVOA_U

ClientSampleId :

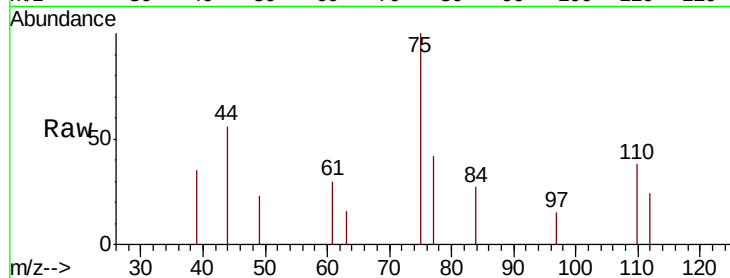
VHBLK02

Tgt Ion: 75 Resp: 1093

Ion Ratio Lower Upper

75 100

77 33.1 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

10.49

800

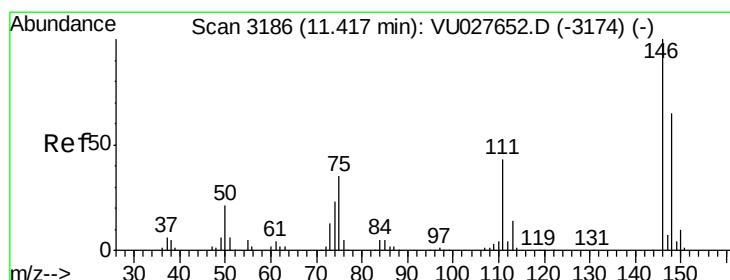
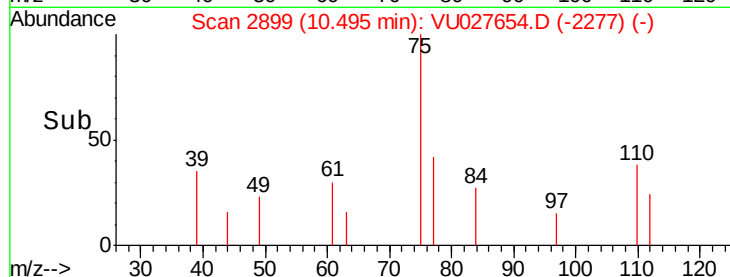
600

400

200

0

Time--> 10.45 10.50



#62

1,3-Dichlorobenzene

Concen: 0.487 ug/L

RT: 11.42 min Scan# 3187

Delta R.T. 0.00 min

Lab File: VU027654.D

Acq: 15 Oct 2018 10:04

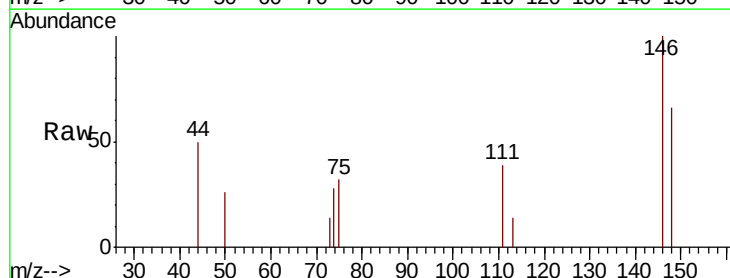
Tgt Ion: 146 Resp: 1123

Ion Ratio Lower Upper

146 100

111 39.2 29.0 53.8

148 65.8 45.4 84.2



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

1000

800

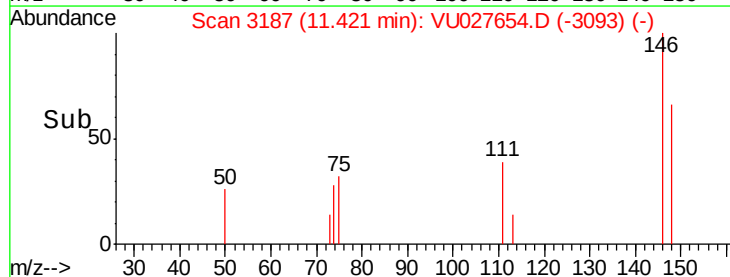
600

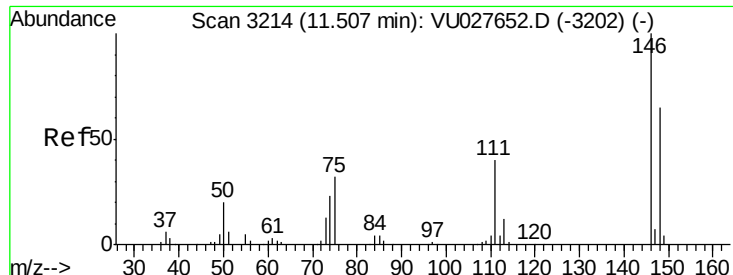
400

200

0

Time--> 11.40 11.45





#63

1,4-Dichlorobenzene

Concen: 0.585 ug/L

RT: 11.51 min Scan# 3215

Delta R.T. 0.00 min

Lab File: VU027654.D

Acq: 15 Oct 2018 10:04

Instrument :

MSVOA_U

ClientSampleId :

VHBLK02

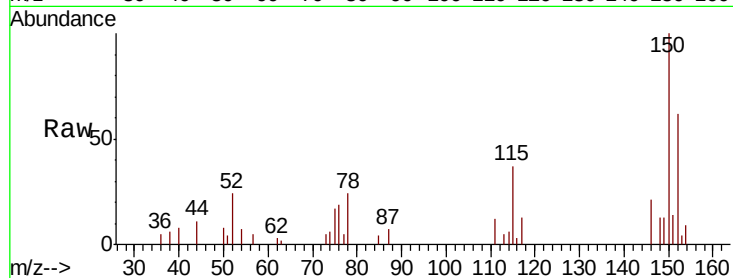
Tgt Ion:146 Resp: 1408

Ion Ratio Lower Upper

146 100

111 56.0 28.1 52.1#

148 63.1 44.4 82.5



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

