

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU102318\
 Data File : VU027760.D
 Acq On : 23 Oct 2018 12:58
 Operator : MD/SY
 Sample : J5026-05DL 4X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 1720DL

Quant Time: Oct 24 05:54:09 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

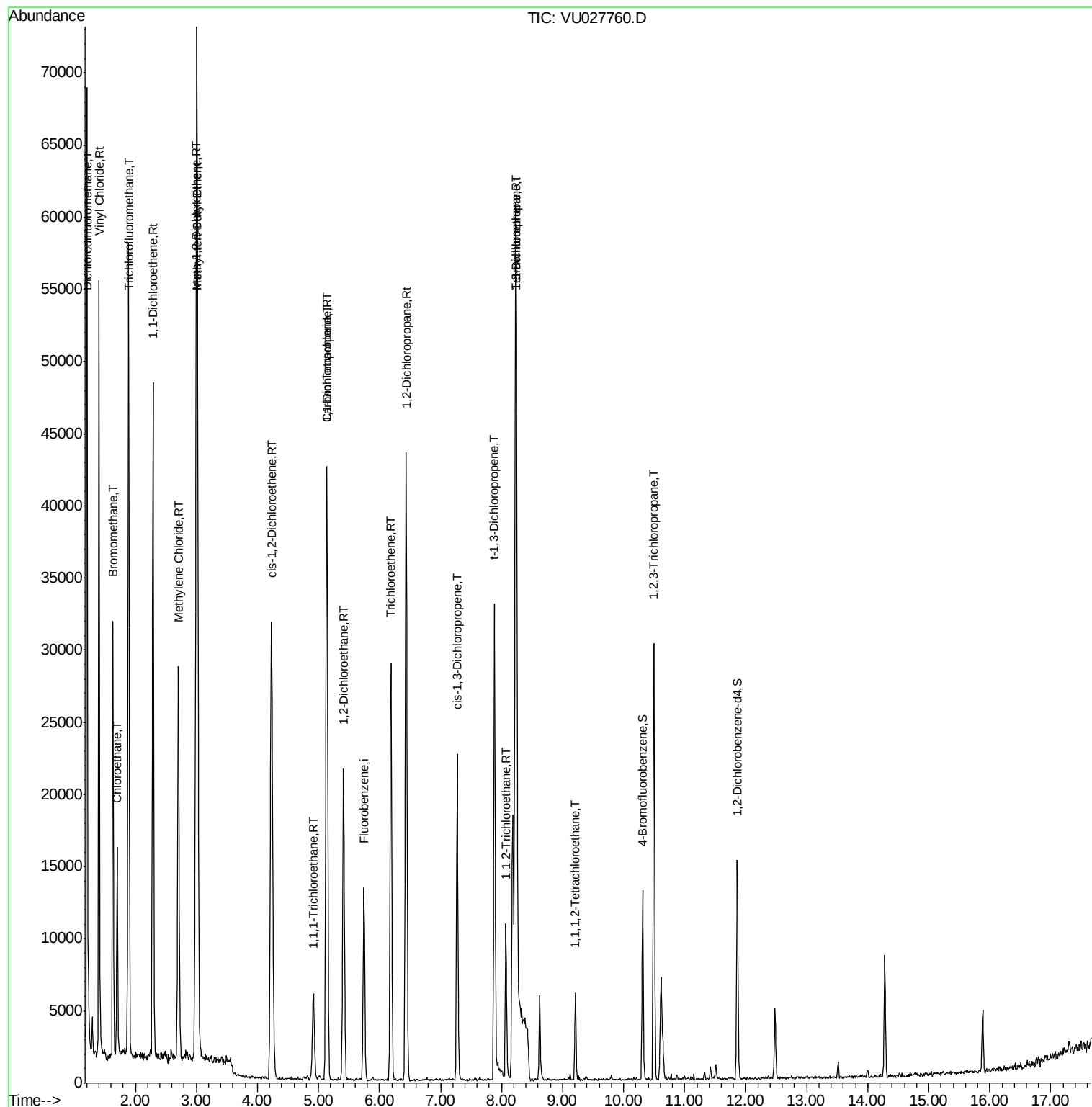
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	5.75	96	12784	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.31	95	4475	0.92	ug/l	0.00
Spiked Amount 1.000			Recovery	=	92.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	4266	0.93	ug/l	0.00
Spiked Amount 1.000			Recovery	=	93.00%	
Target Compounds						
					Ovalue	
2) Dichlorodifluoromethane	1.21	85	41169	8.110	ug/l	100
4) Vinyl Chloride	1.40	62	36063	7.118	ug/l	98
5) Bromomethane	1.63	94	12651	4.747	ug/l	98
6) Chloroethane	1.70	64	9236	3.362	ug/l	95
7) Trichlorofluoromethane	1.89	101	35143	5.691	ug/l	99
9) 1,1-Dichloroethene	2.29	96	13228	4.639	ug/l	98
15) Methylene Chloride	2.70	84	10816	3.010	ug/l	97
16) trans-1,2-Dichloroethene	2.99	96	2449	0.772	ug/l	93
22) cis-1,2-Dichloroethene	4.22	96	15222	4.006	ug/l	89
25) Methyl tert-Butyl Ether	3.01	73	77626	8.550	ug/l	100
28) 1,1,1-Trichloroethane	4.91	97	4853	0.799	ug/l	99
29) 1,1-Dichloropropene	5.13	75	19848	3.744	ug/l	99
30) Carbon Tetrachloride	5.14	117	5012	0.924	ug/l	97
36) 1,2-Dichloroethane	5.41	62	19718	3.999	ug/l	98
37) Trichloroethene	6.19	130	9680	2.648	ug/l	94
38) 1,2-Dichloropropane	6.44	63	16505	3.967	ug/l	97
50) t-1,3-Dichloropropene	7.88	75	17858	3.490	ug/l	97
51) cis-1,3-Dichloropropene	7.27	75	12724	2.111	ug/l	99
52) 1,1,2-Trichloroethane	8.07	97	3216	1.259	ug/l	95
53) 1,3-Dichloropropane	8.25	76	16825	3.428	ug/l	99
58) Tetrachloroethene	8.23	164	10000	2.901	ug/l	96
60) 1,1,1,2-Tetrachloroethane	9.21	131	1773	0.518	ug/l	97
71) 1,2,3-Trichloropropane	10.49	75	12499	4.736	ug/l #	99
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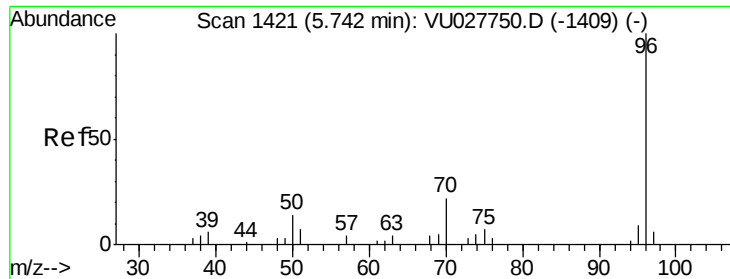
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.75 min Scan# 1423

Delta R.T. 0.01 min

Lab File: VU027760.D

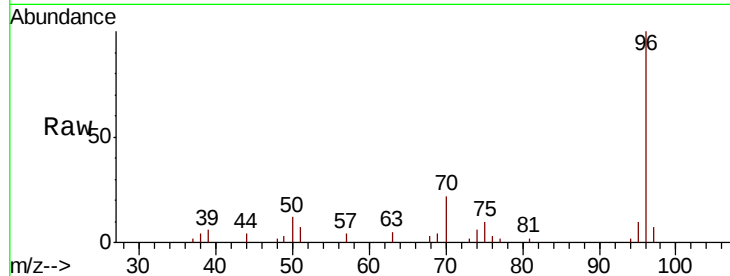
Acq: 23 Oct 2018 12:58

Instrument :
MSVOA_U
ClientSampleId :
1720DL

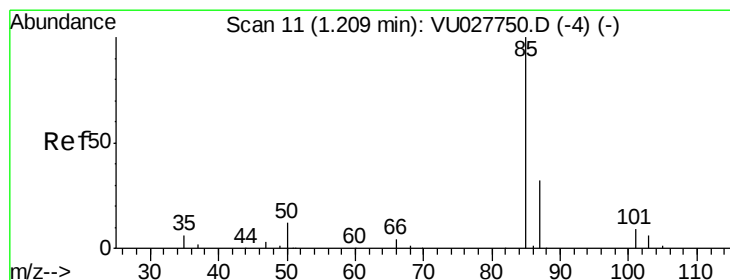
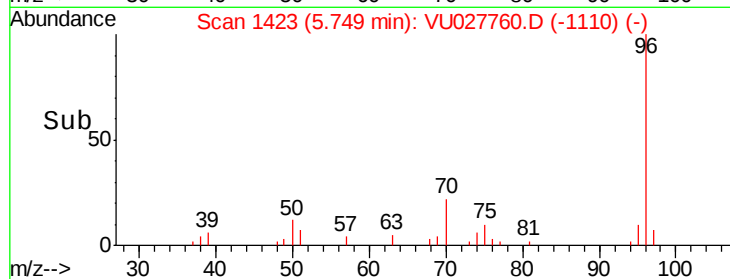
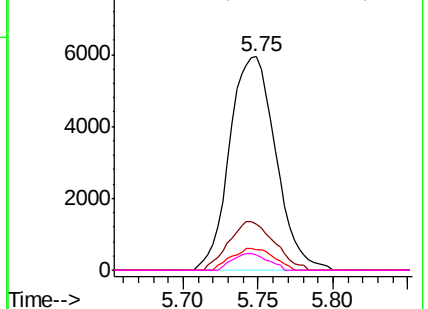
Tot Ion: 96 Resp: 12784

Ion Ratio Lower Upper

96	100		
70	22.6	17.7	26.5
95	9.3	7.0	10.6
97	6.0	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



#2

Dichlorodifluoromethane

Concen: 8.110 ug/l

RT: 1.21 min Scan# 11

Delta R.T. 0.00 min

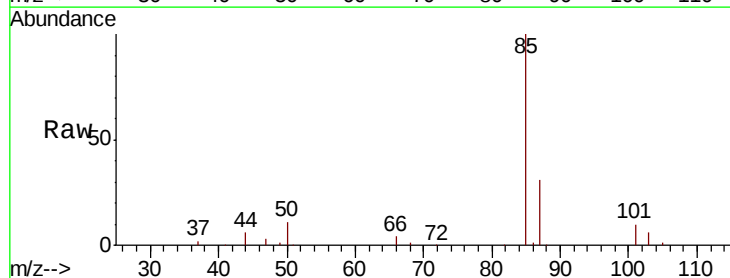
Lab File: VU027760.D

Acq: 23 Oct 2018 12:58

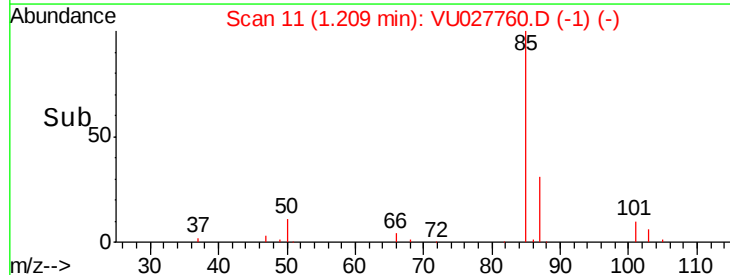
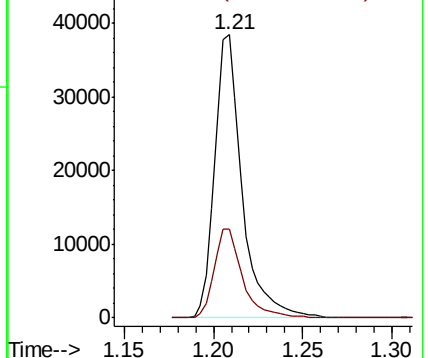
Tgt Ion: 85 Resp: 41169

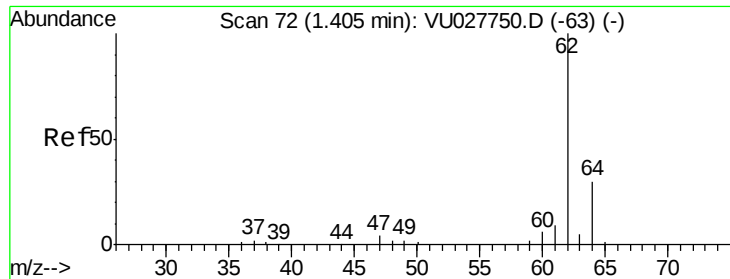
Ion Ratio Lower Upper

85	100		
87	31.5	15.9	47.6



Abundance Ion 85.00 (84.70 to 85.70): VU0
Ion 87.00 (86.70 to 87.70): VU0





#4

Vinyl Chloride

Concen: 7.118 ug/l

RT: 1.40 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU027760.D

Acq: 23 Oct 2018 12:58

Instrument :

MSVOA_U

ClientSampled :

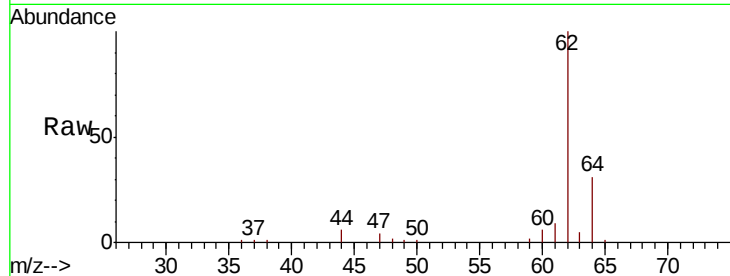
1720DL

Tot Ion: 62 Resp: 36063

Ion Ratio Lower Upper

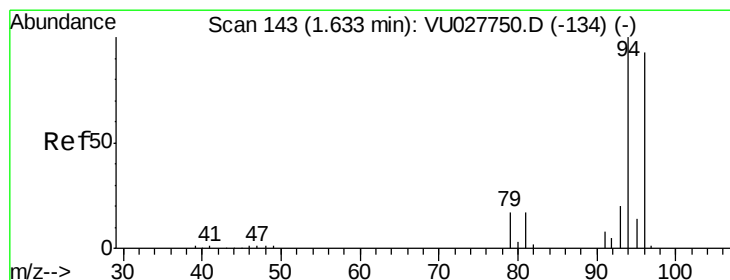
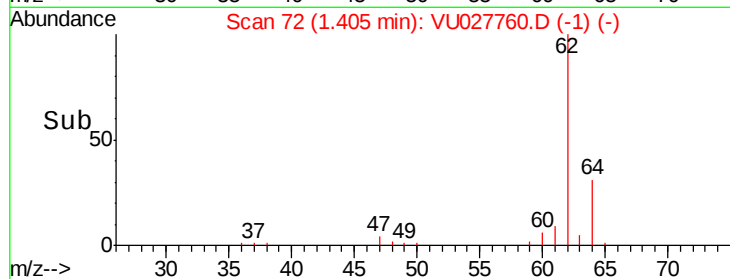
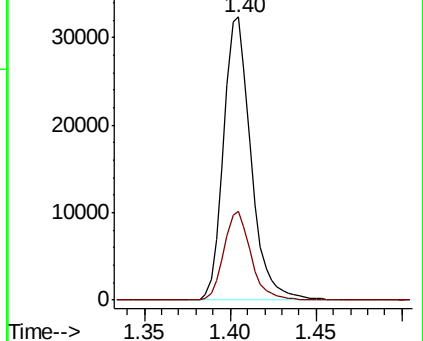
62 100

64 31.4 24.3 36.5



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#5

Bromomethane

Concen: 4.747 ug/l

RT: 1.63 min Scan# 143

Delta R.T. 0.00 min

Lab File: VU027760.D

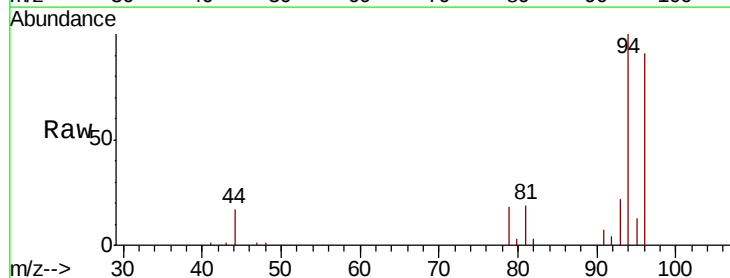
Acq: 23 Oct 2018 12:58

Tgt Ion: 94 Resp: 12651

Ion Ratio Lower Upper

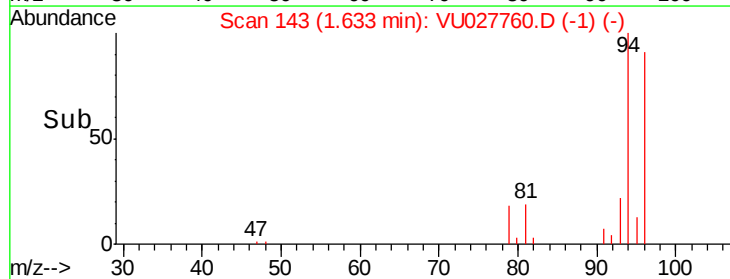
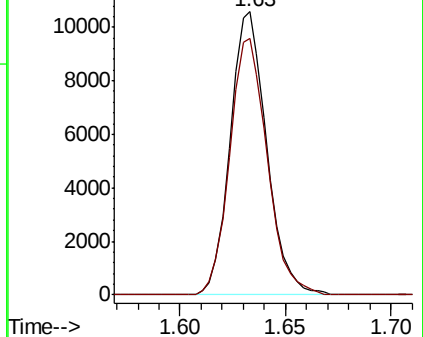
94 100

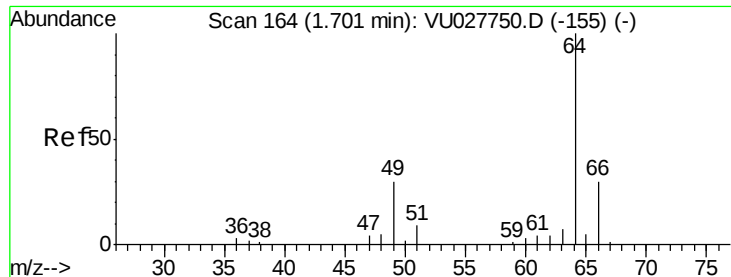
96 90.6 74.2 111.4



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#6

Chloroethane

Concen: 3.362 ug/l

RT: 1.70 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU027760.D

Acq: 23 Oct 2018 12:58

Instrument :

MSVOA_U

ClientSampleId :

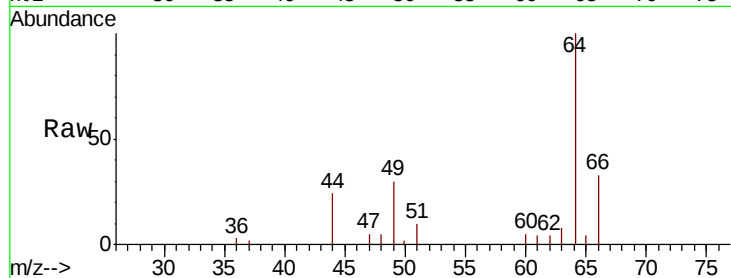
1720DL

Tot Ion: 64 Resp: 9236

Ion Ratio Lower Upper

64 100

66 33.3 24.3 36.5



Abundance Ion 64.00 (63.70 to 64.70): VU027750.D (-155) (-)

Ion 66.00 (65.70 to 66.70): VU027750.D (-155) (-)

1.70

6000

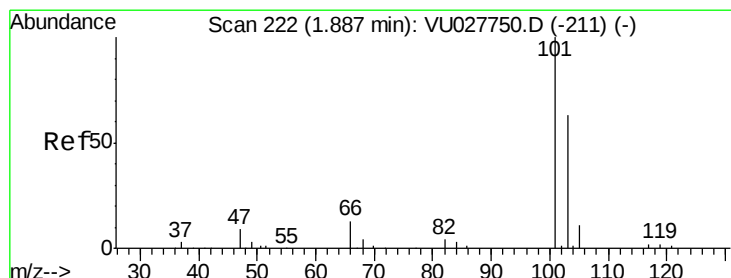
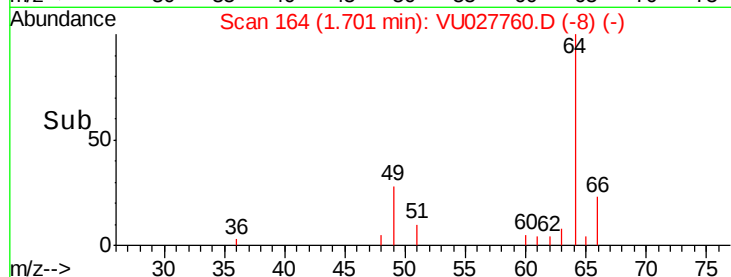
4000

2000

0

1.65 1.70 1.75

Time-->



#7

Trichlorofluoromethane

Concen: 5.691 ug/l

RT: 1.89 min Scan# 223

Delta R.T. 0.00 min

Lab File: VU027760.D

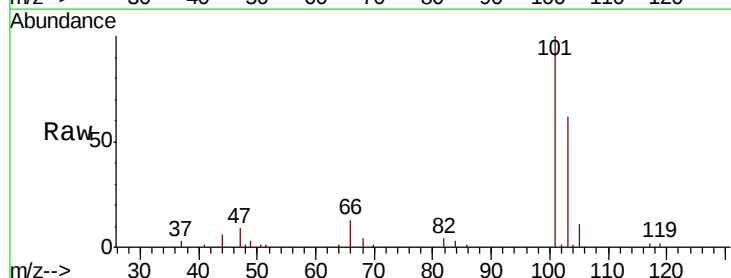
Acq: 23 Oct 2018 12:58

Tgt Ion: 101 Resp: 35143

Ion Ratio Lower Upper

101 100

103 61.7 50.2 75.2



Abundance Ion 101.00 (100.70 to 101.70): VU027750.D (-211) (-)

Ion 103.00 (102.70 to 103.70): VU027750.D (-211) (-)

1.89

30000

25000

20000

15000

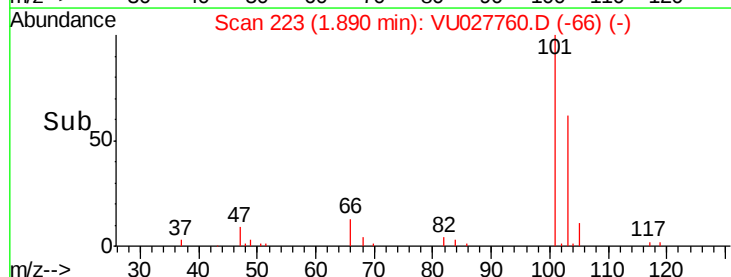
10000

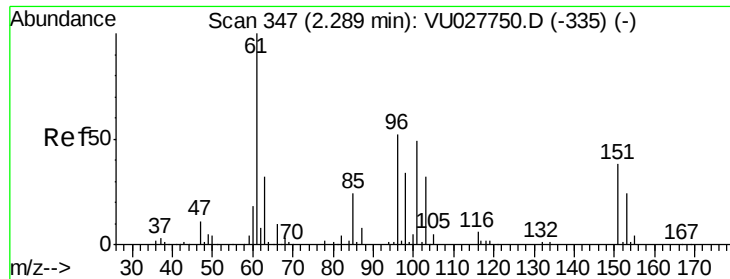
5000

0

1.85 1.90 1.95

Time-->





#9

1,1-Dichloroethene

Concen: 4.639 ug/l

RT: 2.29 min Scan# 347

Delta R.T. 0.00 min

Lab File: VU027760.D

Acq: 23 Oct 2018 12:58

Instrument :

MSVOA_U

ClientSampleId :

1720DL

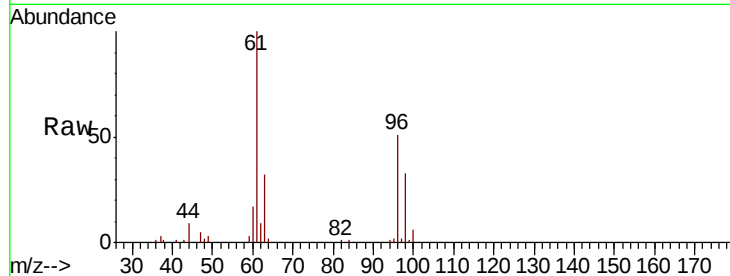
Tot Ion: 96 Resp: 13228

Ion Ratio Lower Upper

96 100

61 196.6 0.0 581.4

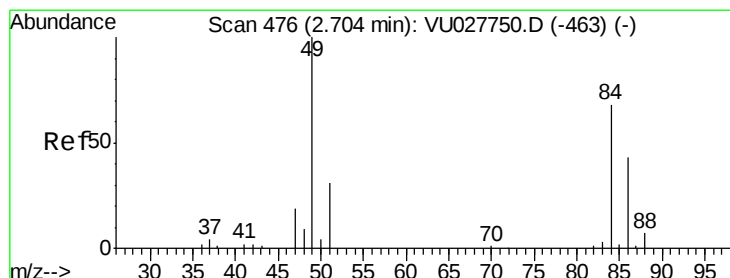
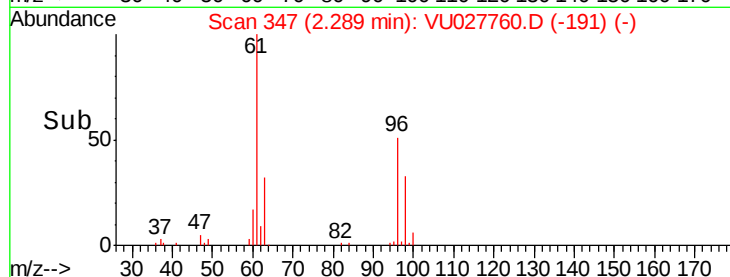
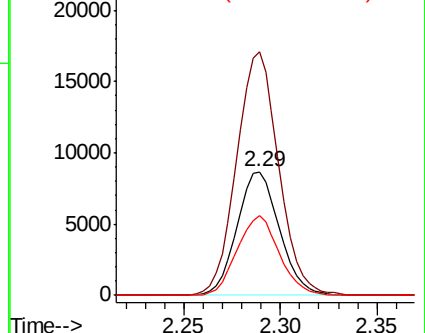
98 64.0 0.0 131.2



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



#15

Methylene Chloride

Concen: 3.010 ug/l

RT: 2.70 min Scan# 476

Delta R.T. 0.00 min

Lab File: VU027760.D

Acq: 23 Oct 2018 12:58

Tgt Ion: 84 Resp: 10816

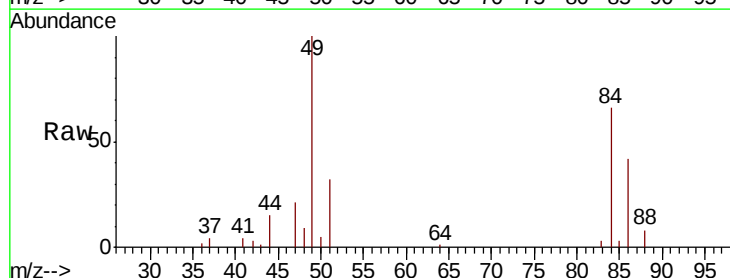
Ion Ratio Lower Upper

84 100

49 152.3 118.5 177.7

51 48.5 0.0 91.0

86 63.8 50.7 76.1

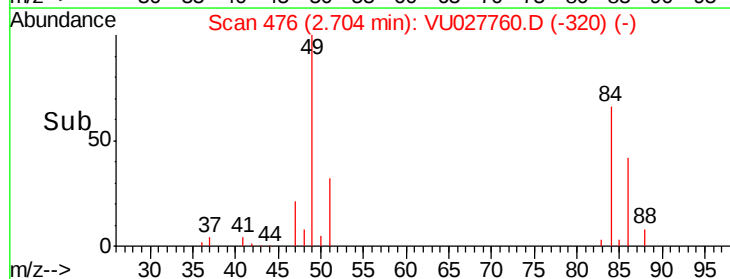
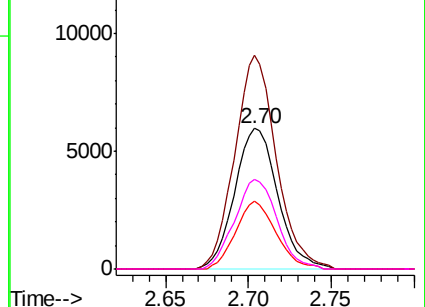


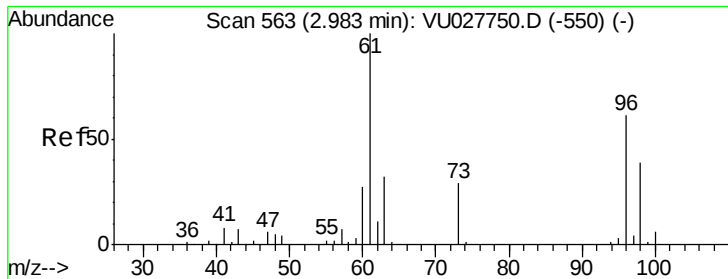
Abundance Ion 84.00 (83.70 to 84.70): VU0

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

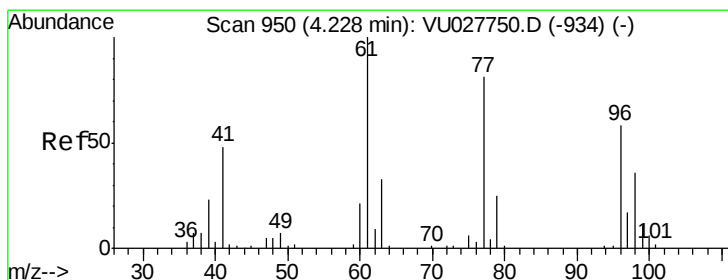
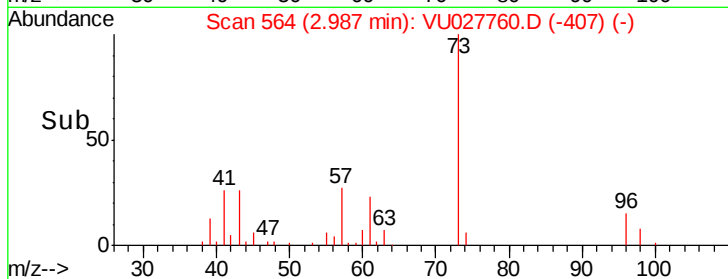
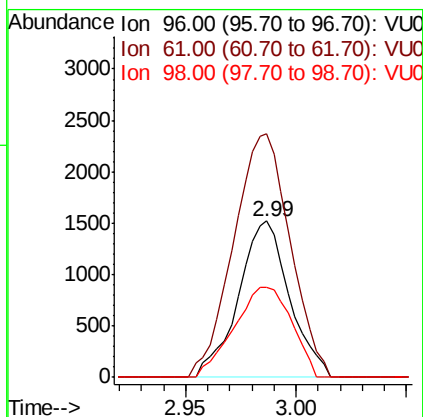
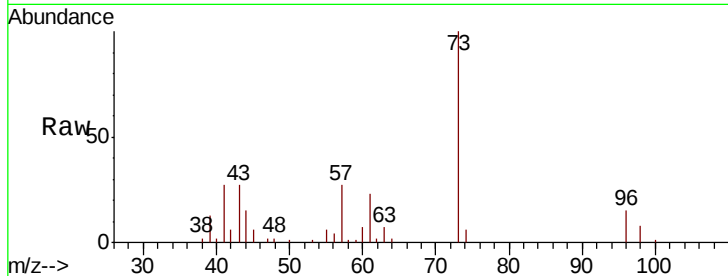




#16
 trans-1,2-Dichloroethene
 Concen: 0.772 ug/l
 RT: 2.99 min Scan# 564
 Delta R.T. 0.00 min
 Lab File: VU027760.D
 Acq: 23 Oct 2018 12:58

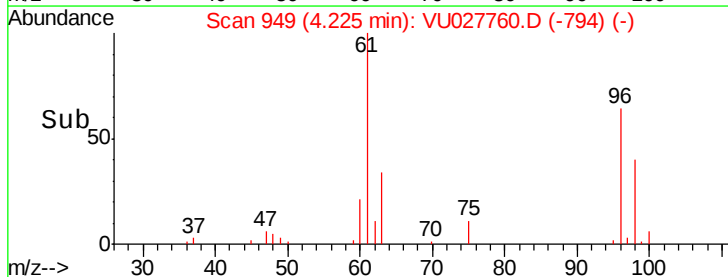
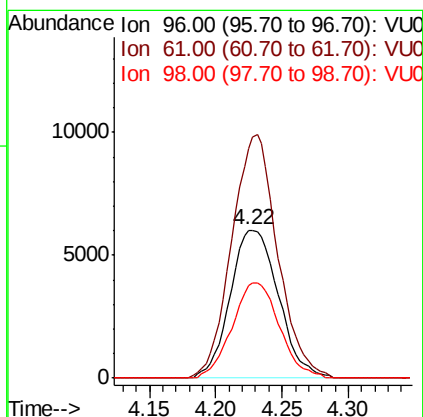
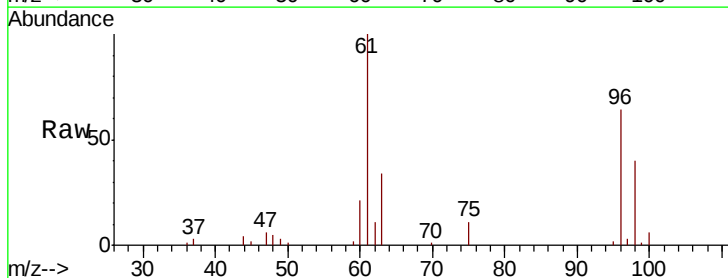
Instrument :
 MSVOA_U
 ClientSampled :
 1720DL

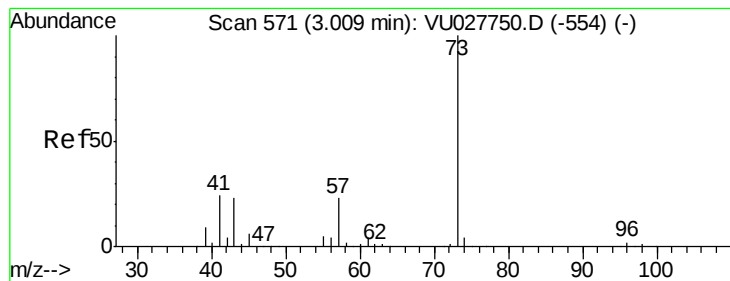
Tot Ion: 96 Resp: 2449
 Ion Ratio Lower Upper
 96 100
 61 155.9 131.8 197.6
 98 57.8 51.2 76.8



#22
 cis-1,2-Dichloroethene
 Concen: 4.006 ug/l
 RT: 4.22 min Scan# 949
 Delta R.T. -0.00 min
 Lab File: VU027760.D
 Acq: 23 Oct 2018 12:58

Tgt Ion: 96 Resp: 15222
 Ion Ratio Lower Upper
 96 100
 61 156.2 0.0 444.0
 98 63.0 31.9 95.5



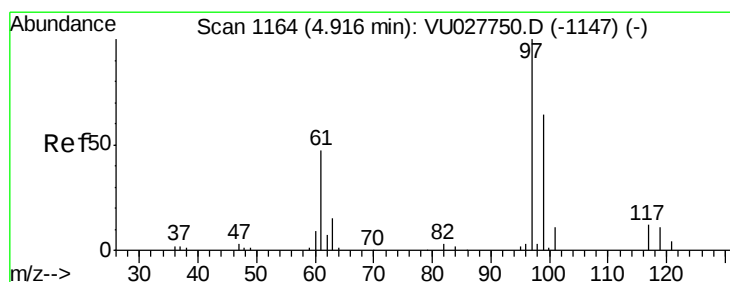
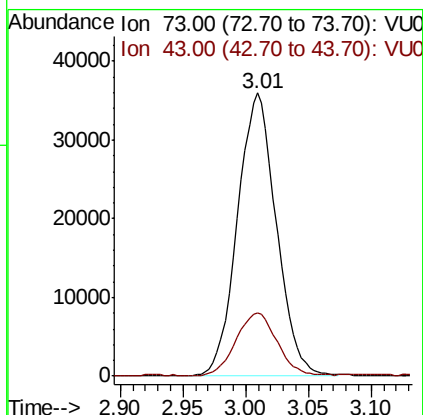
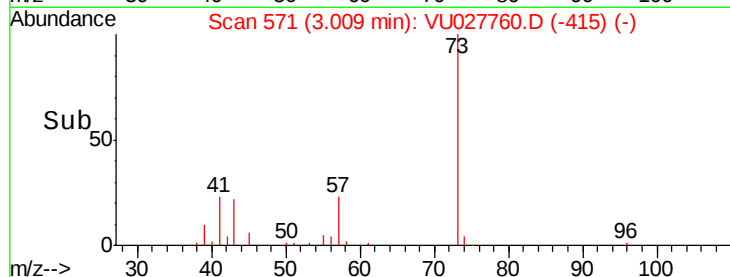
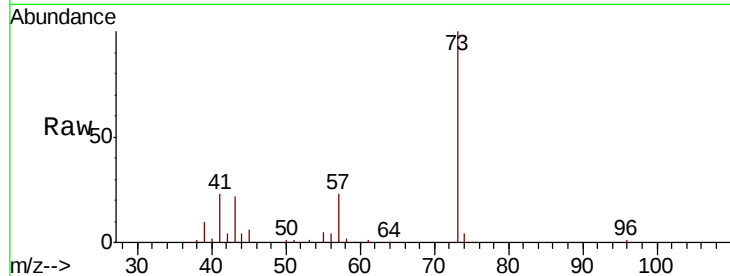


#25

Methyl tert-Butyl Ether
 Concen: 8.550 ug/l
 RT: 3.01 min Scan# 571
 Delta R.T. 0.00 min
 Lab File: VU027760.D
 Acq: 23 Oct 2018 12:58

Instrument :
 MSVOA_U
 ClientSampleID :
 1720DL

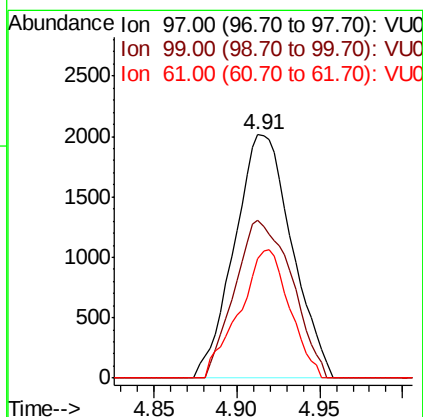
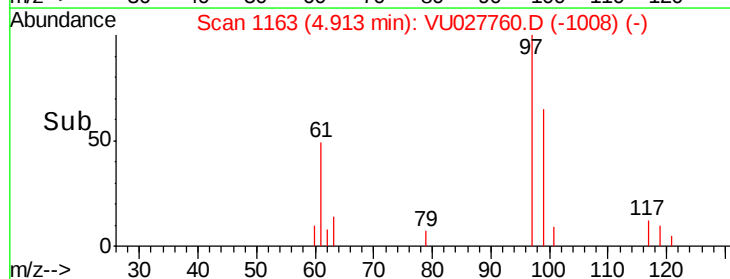
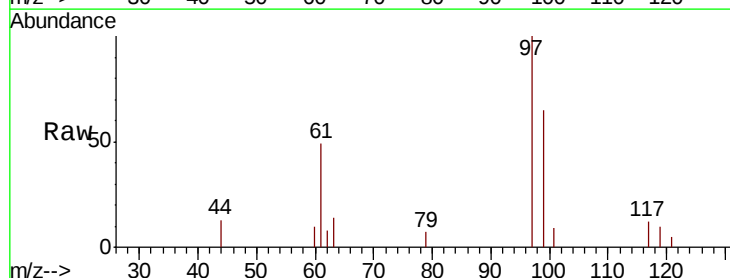
Tot Ion: 73 Resp: 77626
 Ion Ratio Lower Upper
 73 100
 43 23.0 18.6 27.8

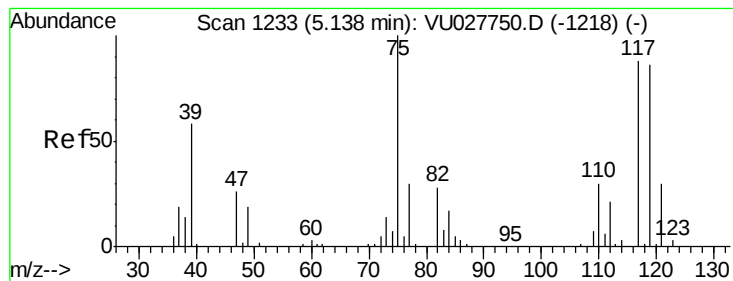


#28

1,1,1-Trichloroethane
 Concen: 0.799 ug/l
 RT: 4.91 min Scan# 1163
 Delta R.T. -0.00 min
 Lab File: VU027760.D
 Acq: 23 Oct 2018 12:58

Tgt Ion: 97 Resp: 4853
 Ion Ratio Lower Upper
 97 100
 99 64.5 31.8 95.4
 61 45.9 23.6 70.8





#29

1,1-Dichloropropene

Concen: 3.744 ug/l

RT: 5.13 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VU027760.D

Acq: 23 Oct 2018 12:58

Instrument :

MSVOA_U

ClientSampleId :

1720DL

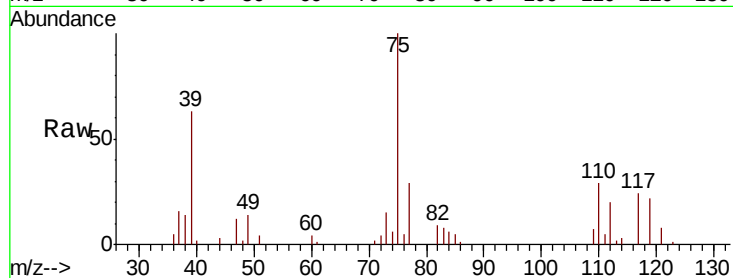
Tot Ion: 75 Resp: 19848

Ion Ratio Lower Upper

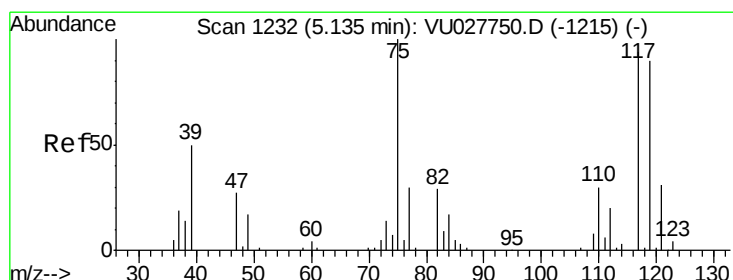
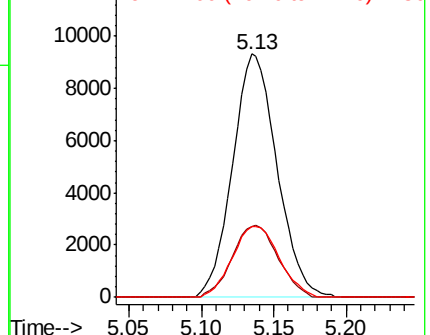
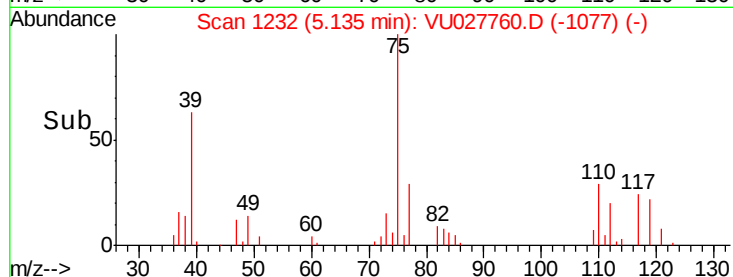
75 100

110 30.3 15.6 46.8

77 30.8 24.5 36.7



Abundance Ion 75.00 (74.70 to 75.70): VU027750.D (-1218) (-)



#30

Carbon Tetrachloride

Concen: 0.924 ug/l

RT: 5.14 min Scan# 1233

Delta R.T. 0.00 min

Lab File: VU027760.D

Acq: 23 Oct 2018 12:58

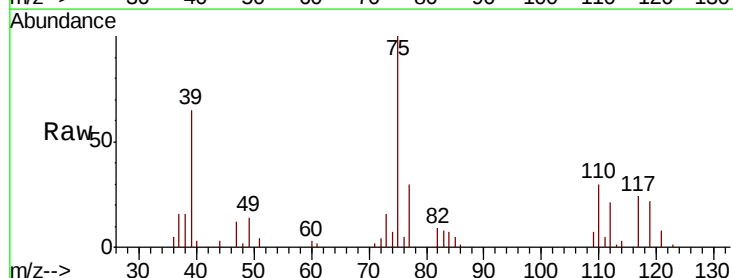
Tgt Ion: 117 Resp: 5012

Ion Ratio Lower Upper

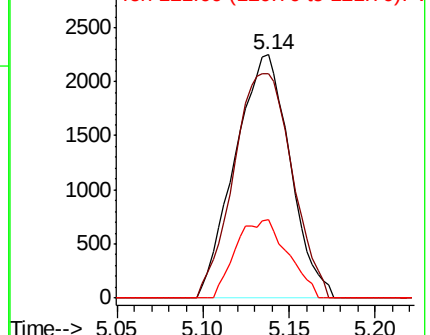
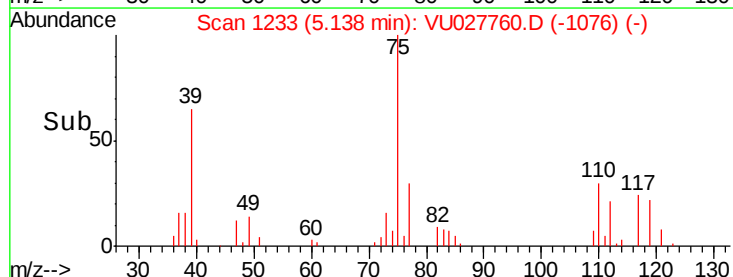
117 100

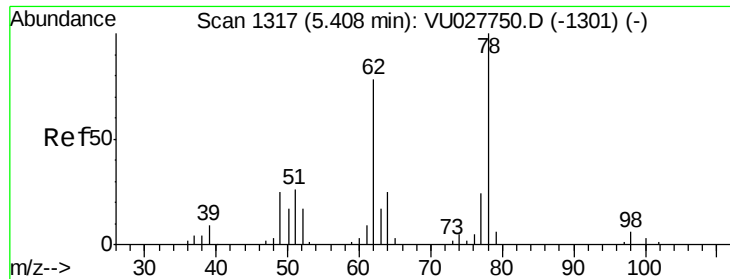
119 92.0 76.2 114.4

121 32.2 26.4 39.6



Abundance Ion 117.00 (116.70 to 117.70): VU027760.D (-1076) (-)

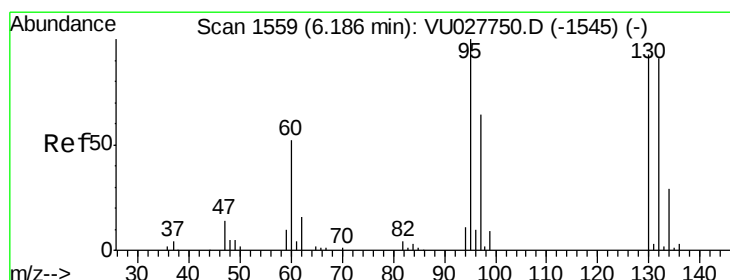
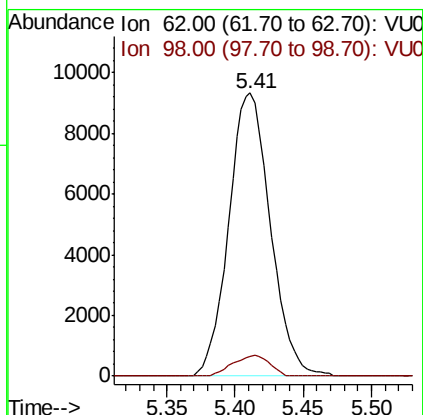
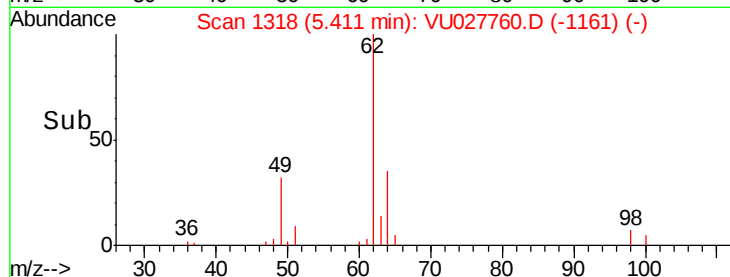
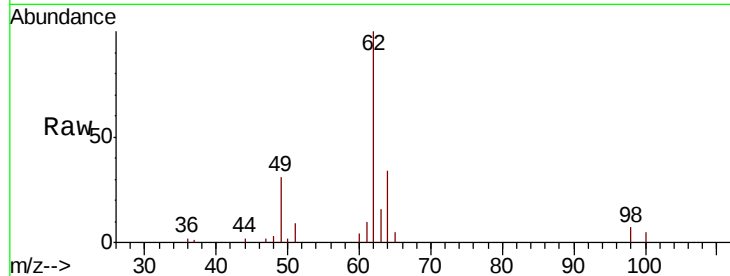




#36
 1,2-Dichloroethane
 Concen: 3.999 ug/l
 RT: 5.41 min Scan# 1318
 Delta R.T. 0.00 min
 Lab File: VU027760.D
 Acq: 23 Oct 2018 12:58

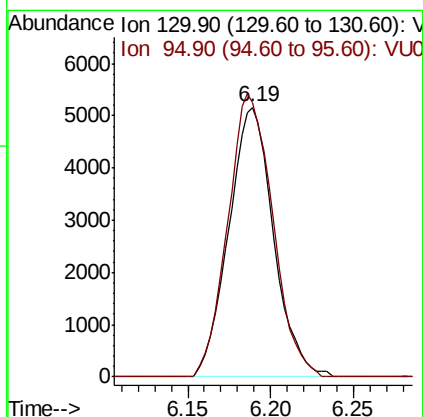
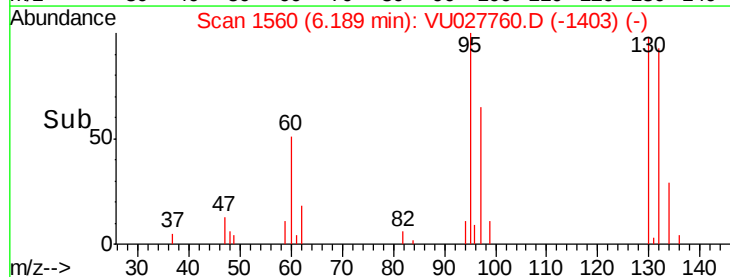
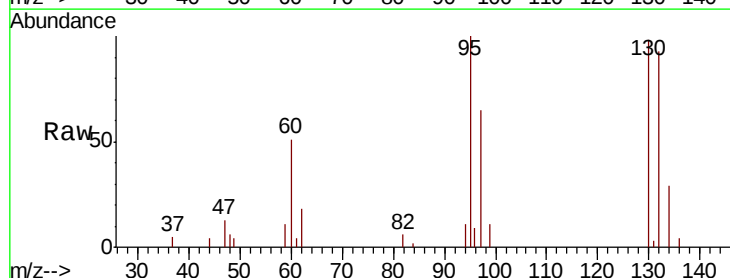
Instrument :
 MSVOA_U
 ClientSampleID :
 1720DL

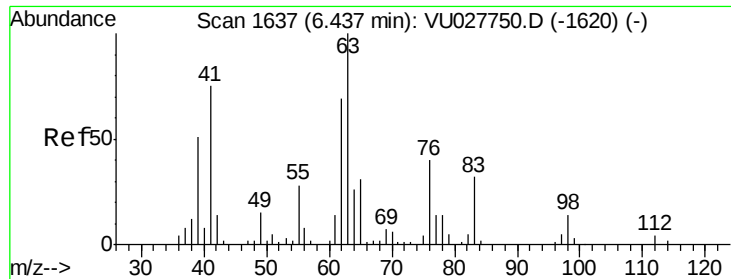
Tot Ion: 62 Resp: 19718
 Ion Ratio Lower Upper
 62 100
 98 6.5 5.8 8.6



#37
 Trichloroethene
 Concen: 2.648 ug/l
 RT: 6.19 min Scan# 1560
 Delta R.T. 0.00 min
 Lab File: VU027760.D
 Acq: 23 Oct 2018 12:58

Tgt Ion: 130 Resp: 9680
 Ion Ratio Lower Upper
 130 100
 95 101.6 86.4 129.6

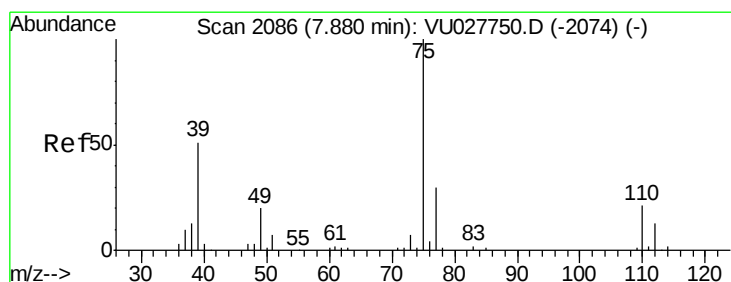
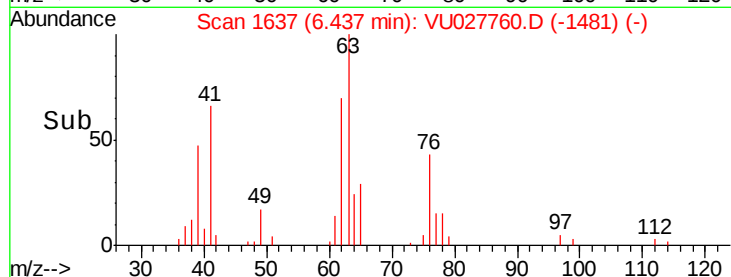
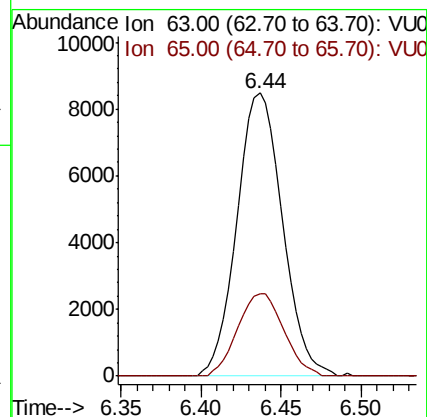
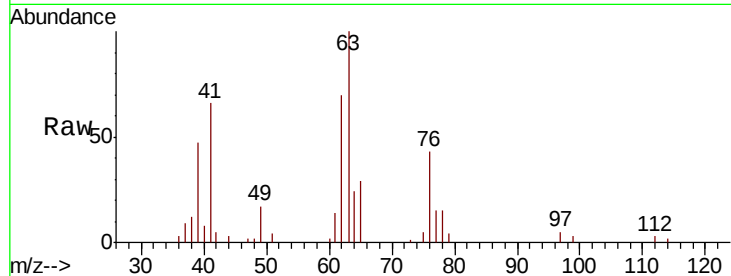




#38
 1,2-Dichloropropane
 Concen: 3.967 ug/l
 RT: 6.44 min Scan# 1637
 Delta R.T. 0.00 min
 Lab File: VU027760.D
 Acq: 23 Oct 2018 12:58

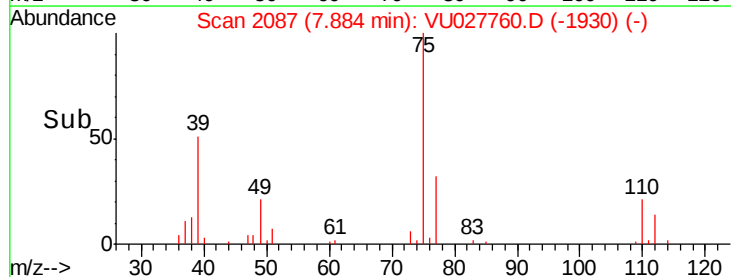
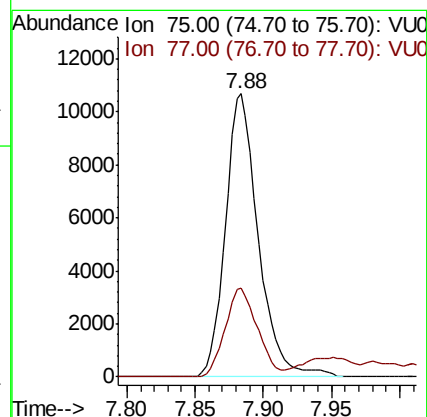
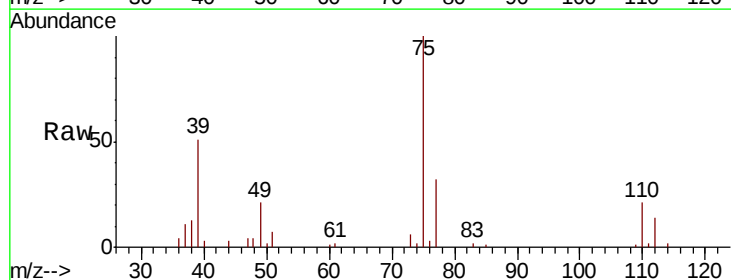
Instrument :
 MSVOA_U
 ClientSampleID :
 1720DL

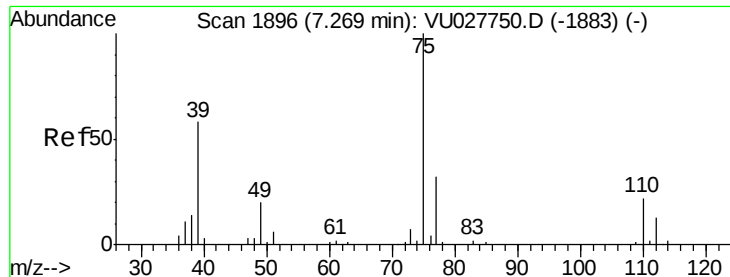
Tot Ion: 63 Resp: 16505
 Ion Ratio Lower Upper
 63 100
 65 29.3 24.9 37.3



#50
 t-1,3-Dichloropropene
 Concen: 3.490 ug/l
 RT: 7.88 min Scan# 2087
 Delta R.T. 0.00 min
 Lab File: VU027760.D
 Acq: 23 Oct 2018 12:58

Tgt Ion: 75 Resp: 17858
 Ion Ratio Lower Upper
 75 100
 77 31.5 24.1 36.1





#51

cis-1,3-Dichloropropene

Concen: 2.111 ug/l

RT: 7.27 min Scan# 1897

Delta R.T. 0.00 min

Lab File: VU027760.D

Acq: 23 Oct 2018 12:58

Instrument :

MSVOA_U

ClientSampleId :

1720DL

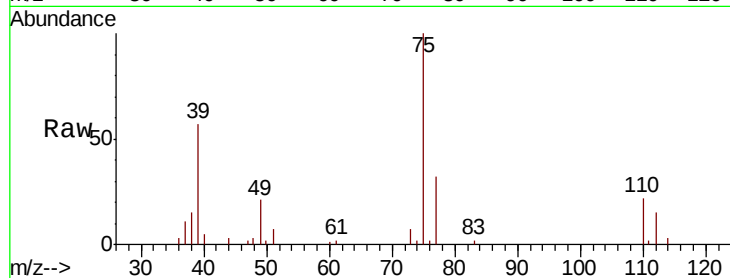
Tot Ion: 75 Resp: 12724

Ion Ratio Lower Upper

75 100

77 32.0 25.3 37.9

39 57.0 46.4 69.6

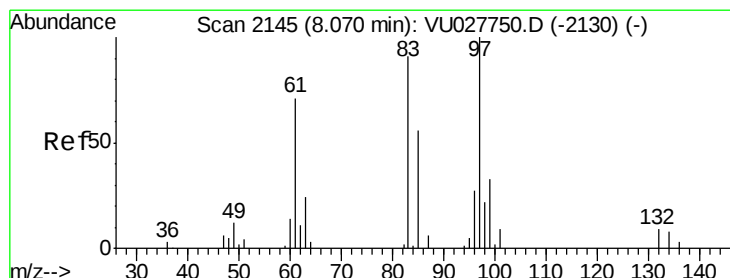
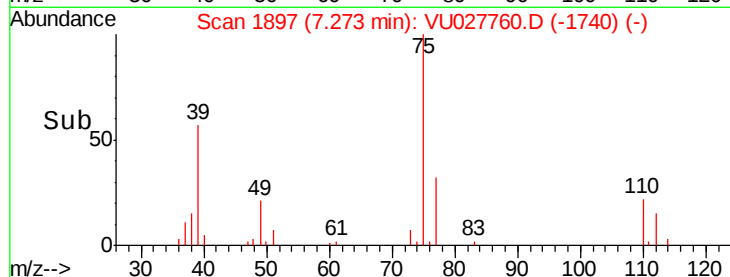
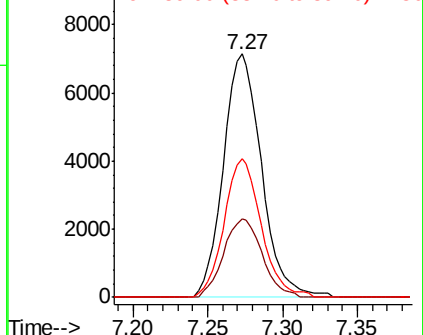


Abundance

Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

Ion 39.00 (38.70 to 39.70): VU0



#52

1,1,2-Trichloroethane

Concen: 1.259 ug/l

RT: 8.07 min Scan# 2145

Delta R.T. 0.00 min

Lab File: VU027760.D

Acq: 23 Oct 2018 12:58

Tgt Ion: 97 Resp: 3216

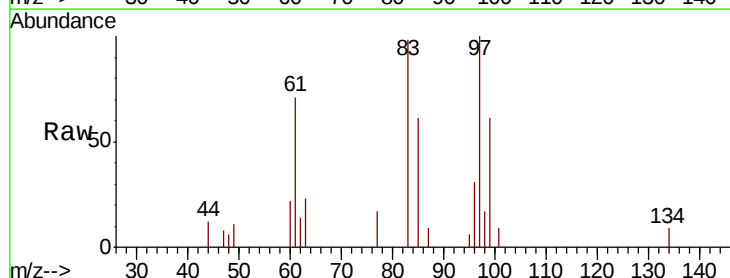
Ion Ratio Lower Upper

97 100

83 98.5 73.0 109.6

85 60.6 46.5 69.7

99 61.4 49.8 74.8



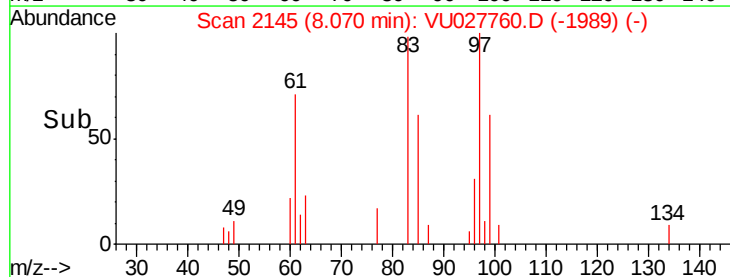
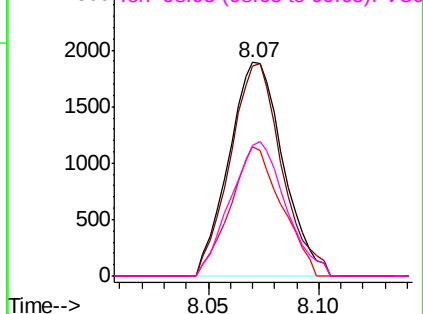
Abundance

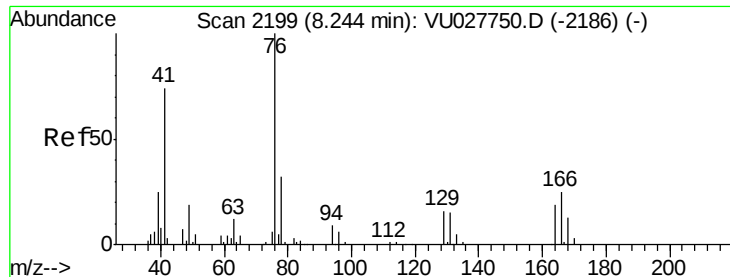
Ion 97.00 (96.70 to 97.70): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 84.95 (84.65 to 85.65): VU0

Ion 98.95 (98.65 to 99.65): VU0

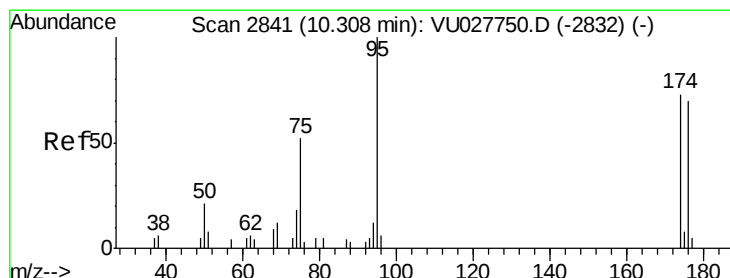
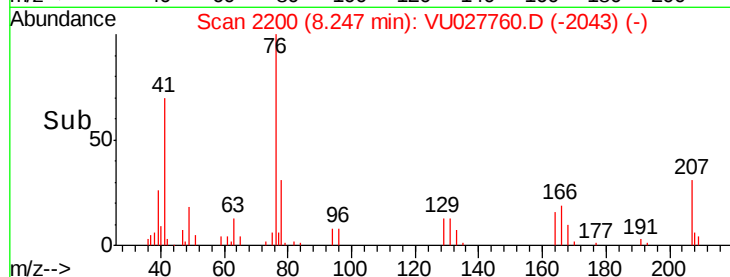
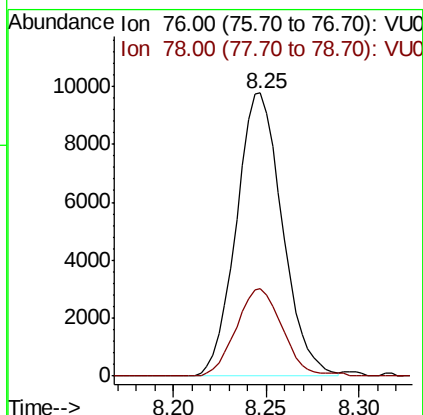
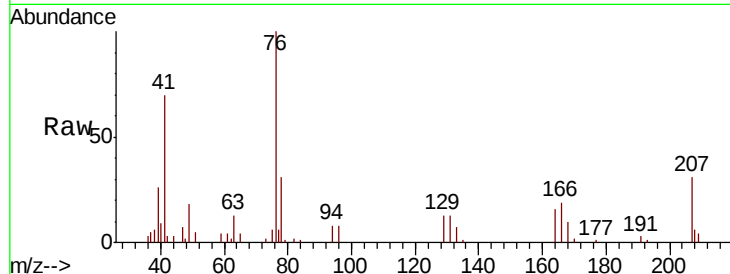




#53
 1,3-Dichloropropane
 Concen: 3.428 ug/l
 RT: 8.25 min Scan# 2200
 Delta R.T. 0.00 min
 Lab File: VU027760.D
 Acq: 23 Oct 2018 12:58

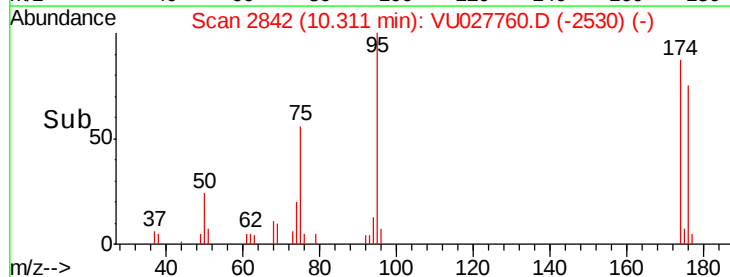
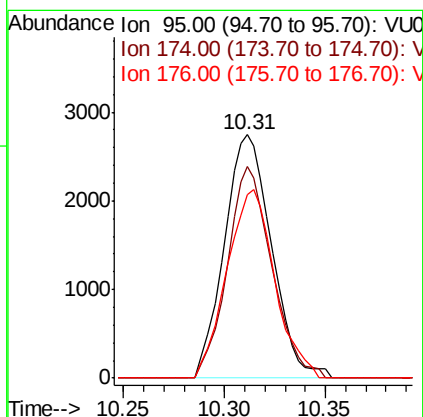
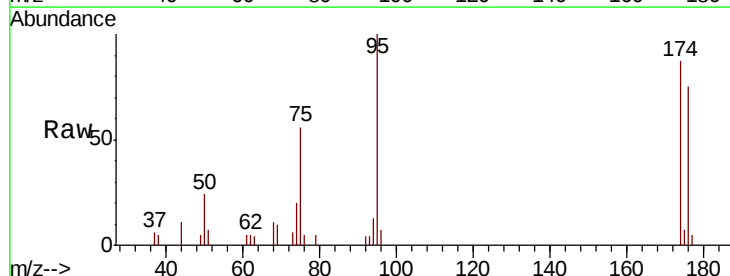
Instrument :
 MSVOA_U
 ClientSampled :
 1720DL

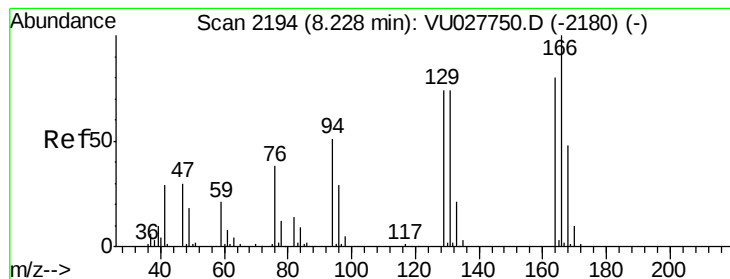
Tot Ion: 76 Resp: 16825
 Ion Ratio Lower Upper
 76 100
 78 31.2 25.4 38.0



#57
 4-Bromofluorobenzene
 Concen: N.D. ug/l
 RT: 10.31 min Scan# 2842
 Delta R.T. 0.00 min
 Lab File: VU027760.D
 Acq: 23 Oct 2018 12:58

Tgt Ion: 95 Resp: 4475
 Ion Ratio Lower Upper
 95 100
 174 82.2 64.5 96.7
 176 78.5 58.3 87.5





#58

Tetrachloroethene

Concen: 2.901 ug/l

RT: 8.23 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VU027760.D

Acq: 23 Oct 2018 12:58

Instrument :

MSVOA_U

ClientSampleId :

1720DL

Tot Ion:164 Resp: 10000

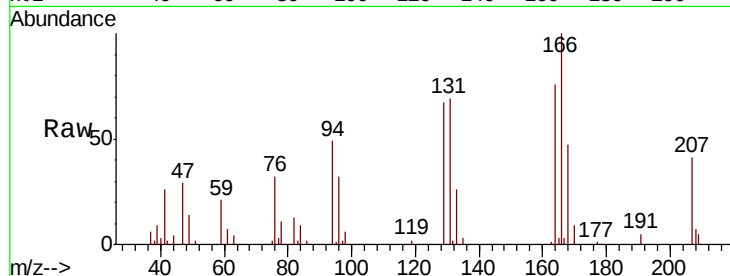
Ion Ratio Lower Upper

164 100

166 132.2 100.2 150.4

129 88.7 73.7 110.5

131 90.7 73.8 110.6

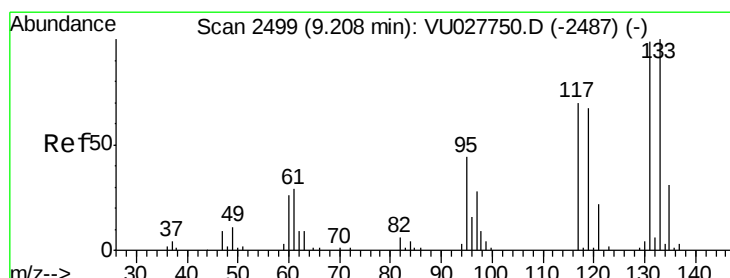
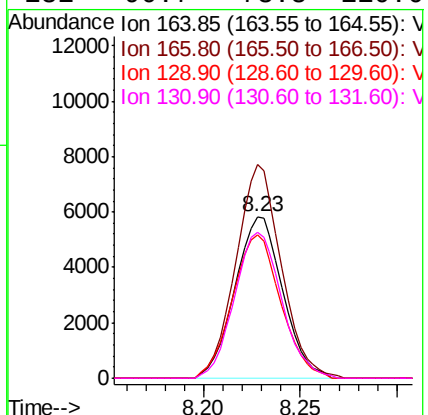
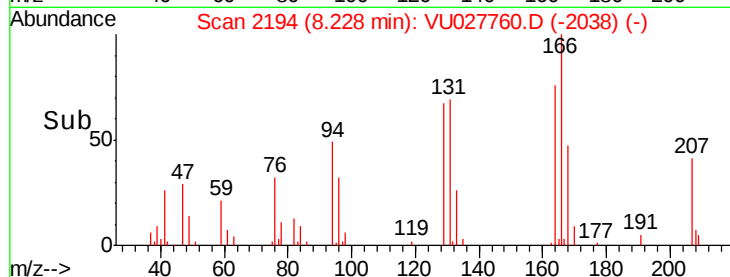


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#60

1,1,1,2-Tetrachloroethane

Concen: 0.518 ug/l

RT: 9.21 min Scan# 2499

Delta R.T. 0.00 min

Lab File: VU027760.D

Acq: 23 Oct 2018 12:58

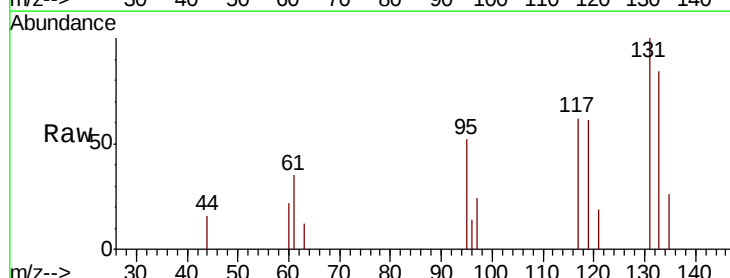
Tgt Ion:131 Resp: 1773

Ion Ratio Lower Upper

131 100

133 101.2 77.5 116.3

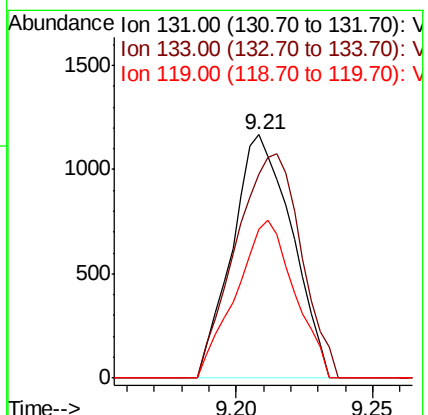
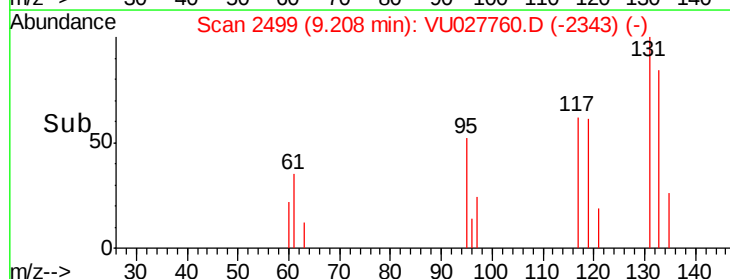
119 63.4 52.0 78.0

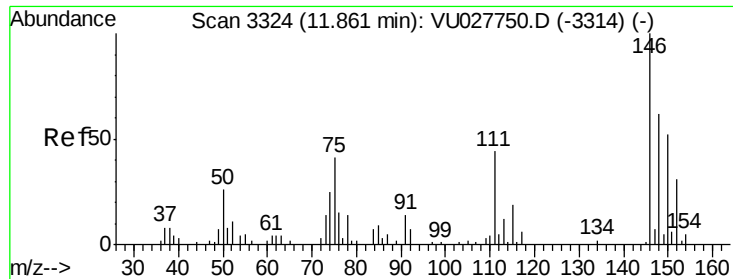


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

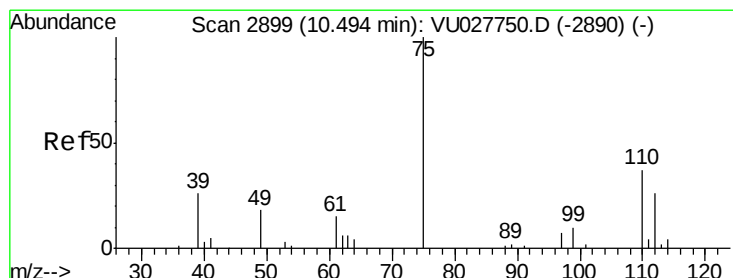
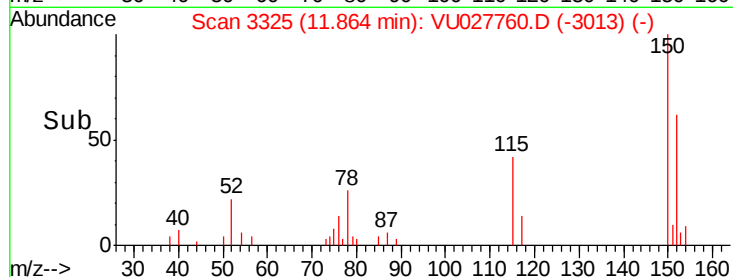
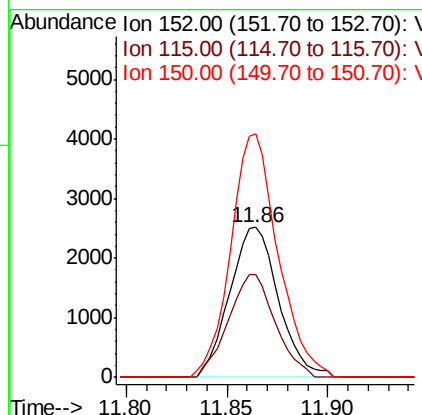
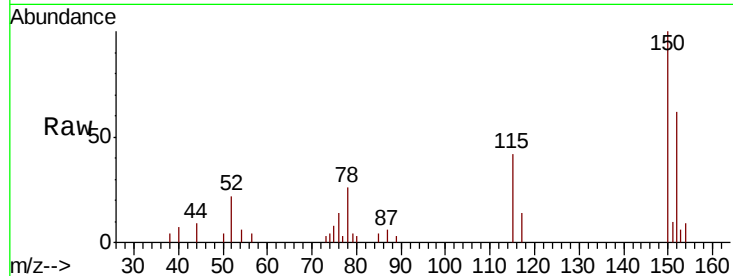




#68
 1,2-Dichlorobenzene-d4
 Concen: N.D. ug/l
 RT: 11.86 min Scan# 3325
 Delta R.T. 0.00 min
 Lab File: VU027760.D
 Acq: 23 Oct 2018 12:58

Instrument :
 MSVOA_U
 ClientSampled :
 1720DL

Tot Ion:152 Resp: 4266
 Ion Ratio Lower Upper
 152 100
 115 65.7 0.0 130.2
 150 156.6 0.0 650.6



#71
 1,2,3-Trichloropropane
 Concen: 4.736 ug/l
 RT: 10.49 min Scan# 2899
 Delta R.T. 0.00 min
 Lab File: VU027760.D
 Acq: 23 Oct 2018 12:58

Tgt Ion: 75 Resp: 12499
 Ion Ratio Lower Upper
 75 100
 77 32.1 0.0 0.0#
 110 34.7 0.0 68.2
 97 17.7 0.0 35.2

