

Data Path : W:\HPCHEM1\MSVOA U\DATA\VU043018\
 Data File : VU023538.D
 Acq On : 30 Apr 2018 20:28
 Operator : MD/SY
 Sample : J2241-05DL 4X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 1220DL

Quant Time: May 01 05:39:53 2018
 Quant Method : W:\HPCHEM1\MSVOA U\METHOD\524U043018DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Tue May 01 05:06:52 2018
 Response via : Initial Calibration

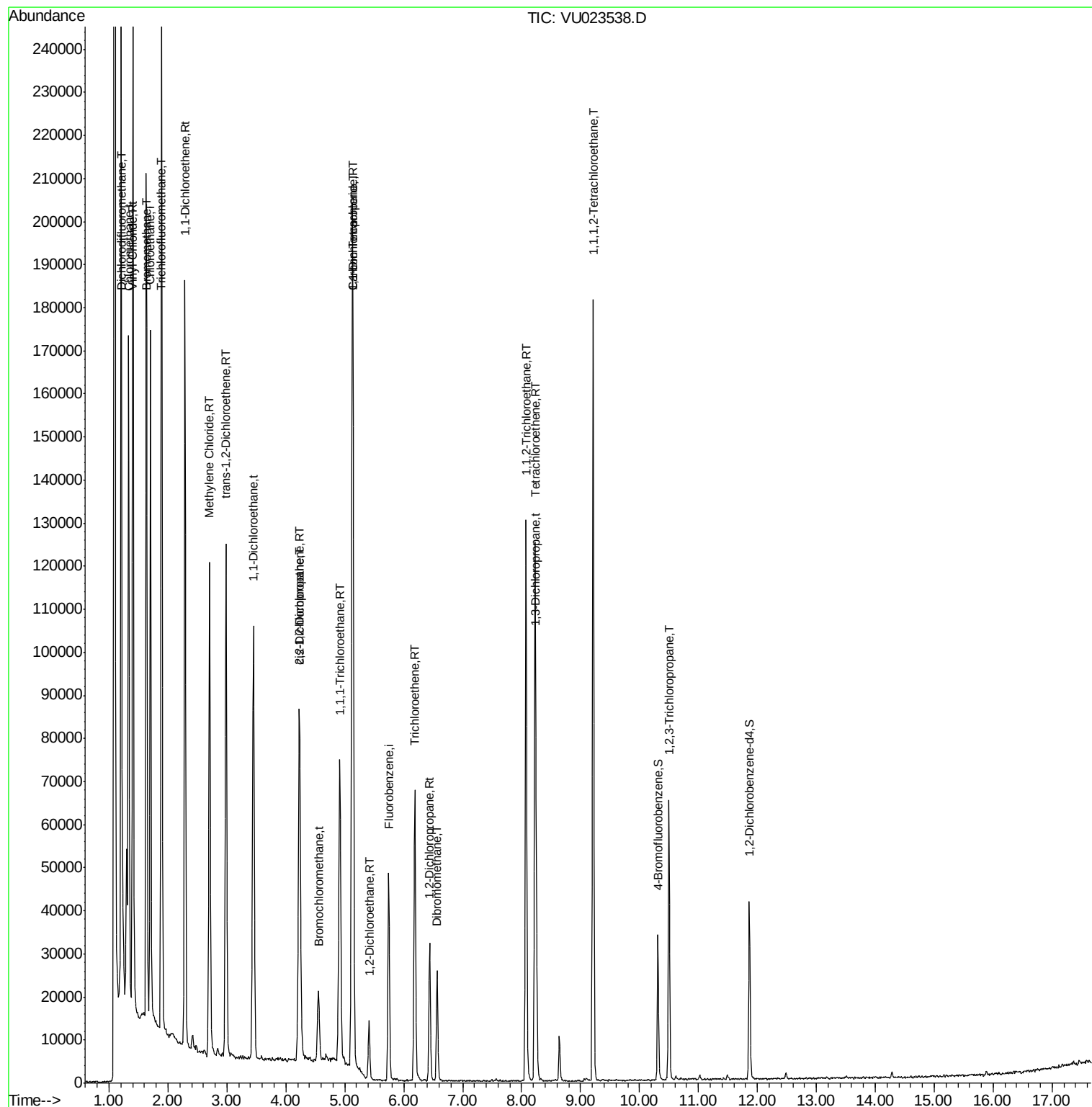
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	5.74	96	44290	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.31	95	11134	0.77	ug/l	0.00
Spiked Amount 1.000			Recovery	=	77.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	11769	0.84	ug/l	0.00
Spiked Amount 1.000			Recovery	=	84.00%	
Target Compounds						Ovalue
2) Dichlorodifluoromethane	1.20	85	181089	12.59	ug/l	98
3) Chloromethane	1.33	50	116306	6.98	ug/l	100
4) Vinyl Chloride	1.40	62	190470	11.92	ug/l	99
5) Bromomethane	1.63	94	91711	10.73	ug/l	99
6) Chloroethane	1.70	64	100493	11.29	ug/l	99
7) Trichlorofluoromethane	1.89	101	192958	10.52	ug/l	100
9) 1,1-Dichloroethene	2.29	96	55631	5.32	ug/l	99
15) Methylene Chloride	2.71	84	48710	4.09	ug/l	97
16) trans-1,2-Dichloroethene	2.99	96	46803	4.17	ug/l	97
17) 1,1-Dichloroethane	3.45	63	112368	5.09	ug/l	100
21) 2,2-Dichloropropane	4.23	77	19360	1.11	ug/l	94
22) cis-1,2-Dichloroethene	4.23	96	32266	2.66	ug/l	93
26) Bromochloromethane	4.55	128	4946	1.03	ug/l	97
28) 1,1,1-Trichloroethane	4.91	97	53322	3.13	ug/l	99
29) 1,1-Dichloropropene	5.13	75	67873	4.05	ug/l	99
30) Carbon Tetrachloride	5.13	117	60919	4.24	ug/l	100
36) 1,2-Dichloroethane	5.41	62	11443	0.81	ug/l	98
37) Trichloroethene	6.18	130	24488	1.83	ug/l	97
38) 1,2-Dichloropropane	6.44	63	13037	0.96	ug/l	94
43) Dibromomethane	6.56	93	10206	1.74	ug/l	98
52) 1,1,2-Trichloroethane	8.07	97	41136	4.93	ug/l	99
53) 1,3-Dichloropropane	8.25	76	16318	1.10	ug/l	98
58) Tetrachloroethene	8.23	164	28422	2.33	ug/l	96
60) 1,1,1,2-Tetrachloroethane	9.21	131	47481	4.54	ug/l	99
71) 1,2,3-Trichloropropane	10.50	75	28401	4.22	ug/l #	96
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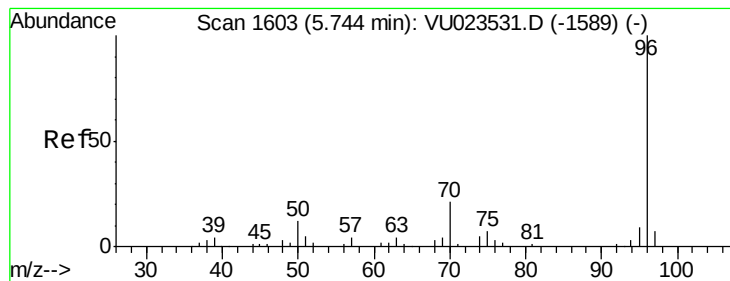
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue May 01 05:06:52 2018
Response via : Initial Calibration





#1

Fluorobenzene

Concen: 1.00 ug/l

RT: 5.74 min Scan# 1603

Delta R.T. 0.00 min

Lab File: VU023538.D

Acq: 30 Apr 2018 20:28

Instrument :

MSVOA_U

ClientSampleId :

1220DL

Tot Ion: 96 Resp: 44290

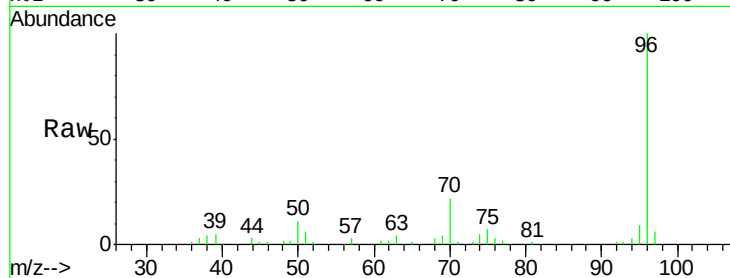
Ion Ratio Lower Upper

96 100

70 21.5 16.2 24.4

95 9.0 6.9 10.3

97 5.8 0.0 0.0#

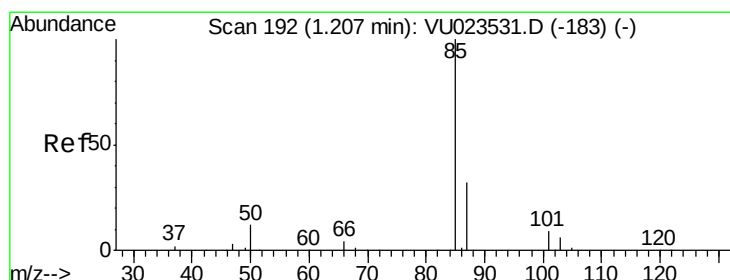
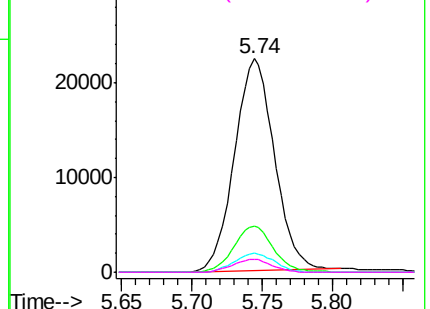
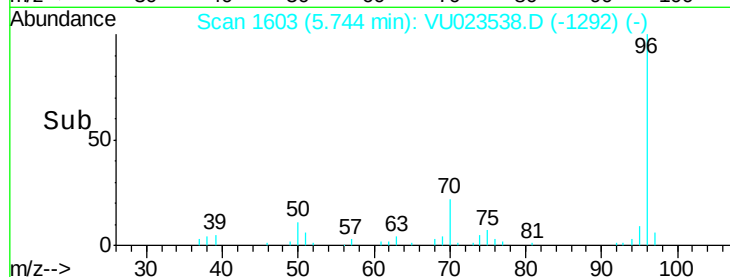


Abundance Ion 96.00 (95.70 to 96.70): VU0

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: 12.59 ug/l

RT: 1.20 min Scan# 191

Delta R.T. -0.00 min

Lab File: VU023538.D

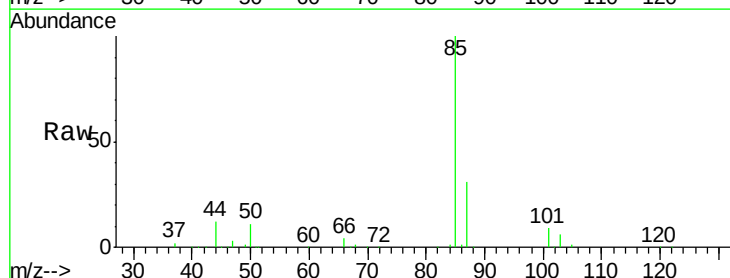
Acq: 30 Apr 2018 20:28

Tgt Ion: 85 Resp: 181089

Ion Ratio Lower Upper

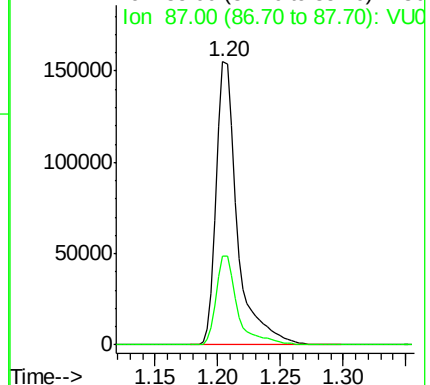
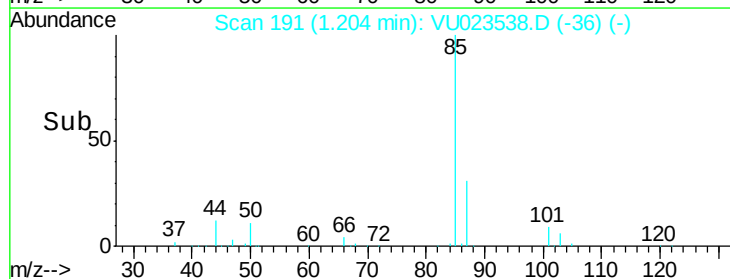
85 100

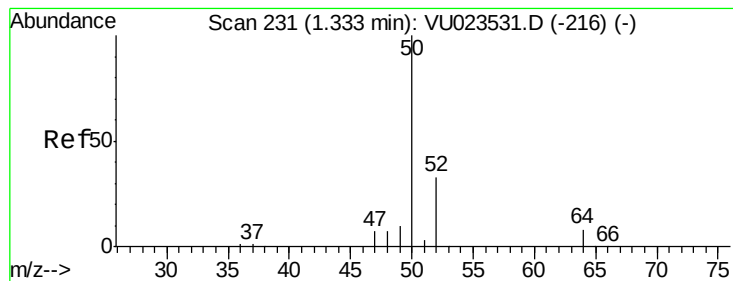
87 31.4 16.2 48.5



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0





#3

Chloromethane

Concen: 6.98 ug/l

RT: 1.33 min Scan# 231

Delta R.T. 0.00 min

Lab File: VU023538.D

Acq: 30 Apr 2018 20:28

Instrument :

MSVOA_U

ClientSampleId :

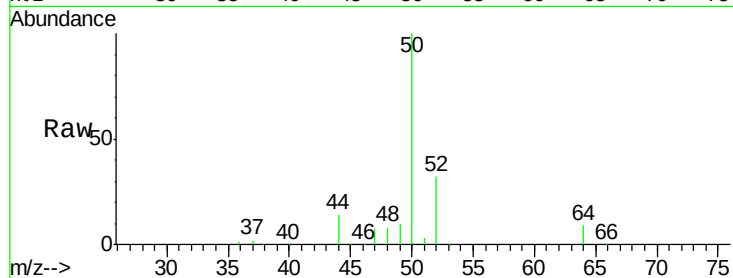
1220DL

Tot Ion: 50 Resp: 116306

Ion Ratio Lower Upper

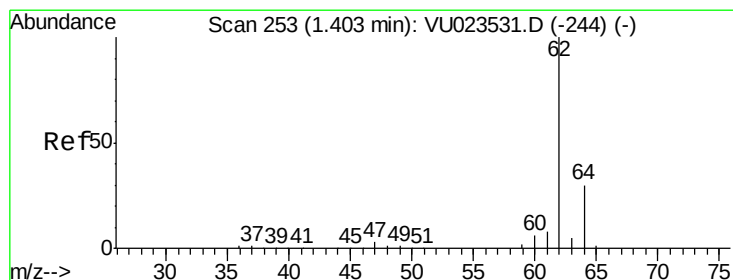
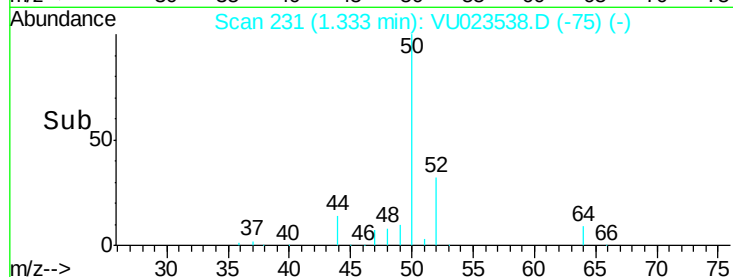
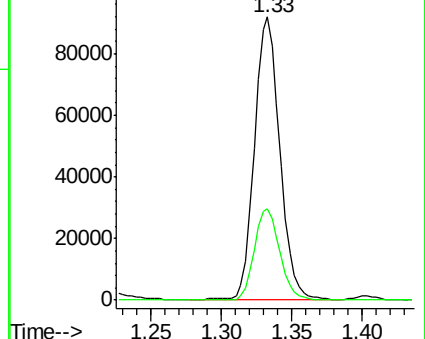
50 100

52 32.4 26.0 39.0



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0



#4

Vinyl Chloride

Concen: 11.92 ug/l

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU023538.D

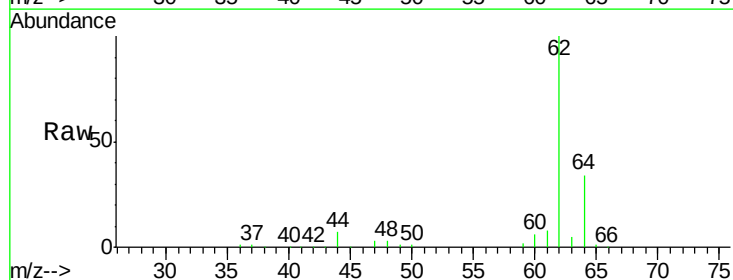
Acq: 30 Apr 2018 20:28

Tgt Ion: 62 Resp: 190470

Ion Ratio Lower Upper

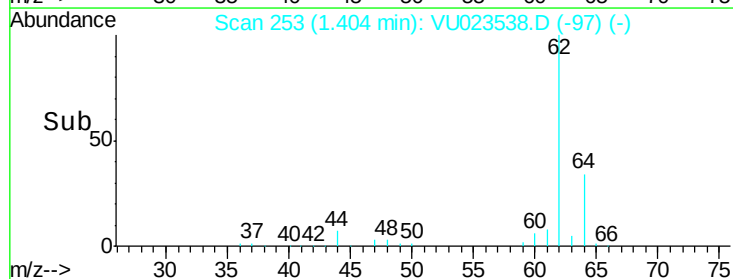
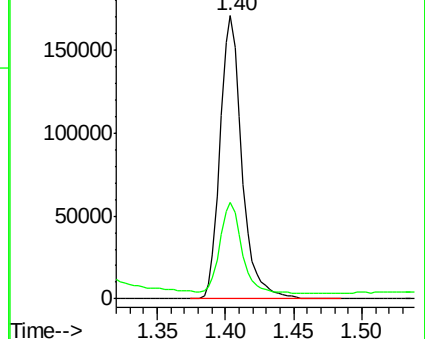
62 100

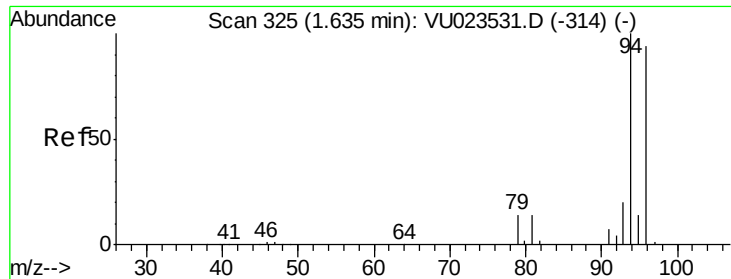
64 31.9 25.8 38.8



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

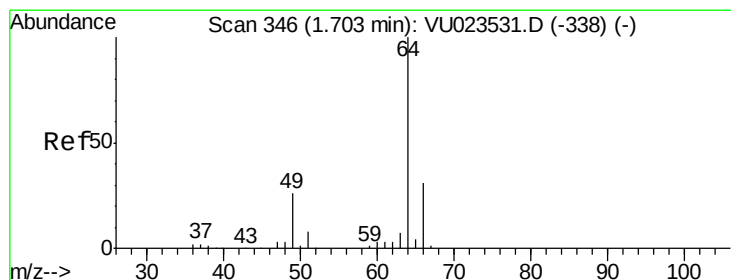
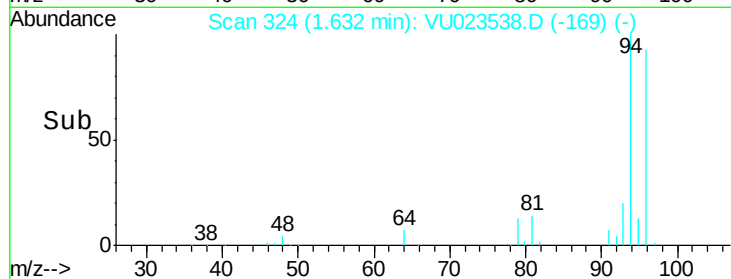
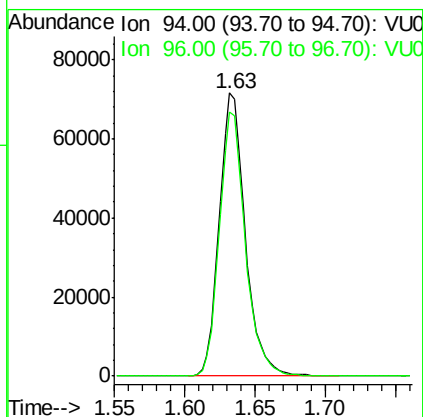
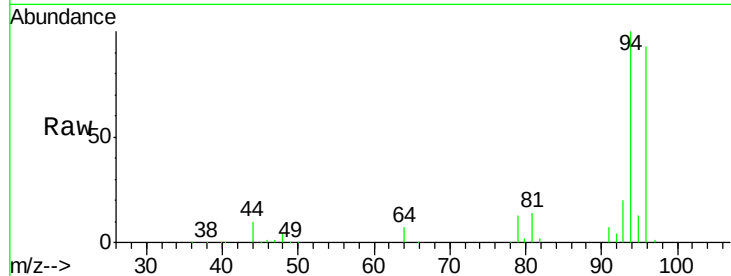




#5
Bromomethane
Concen: 10.73 ug/l
RT: 1.63 min Scan# 324
Delta R.T. -0.00 min
Lab File: VU023538.D
Acq: 30 Apr 2018 20:28

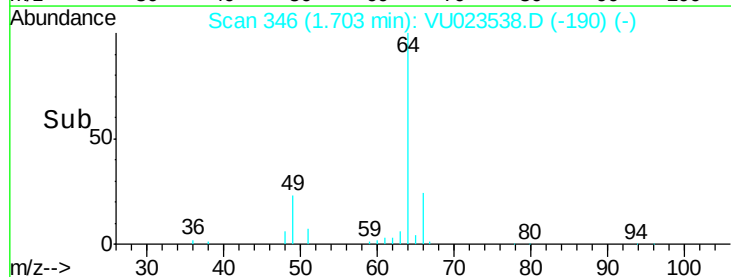
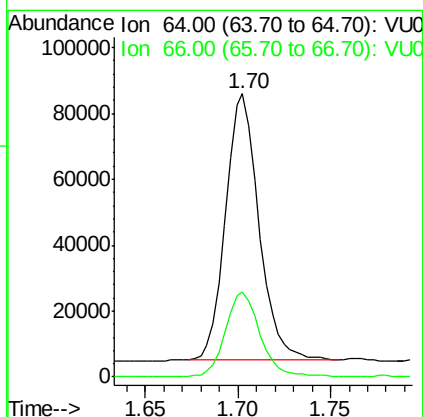
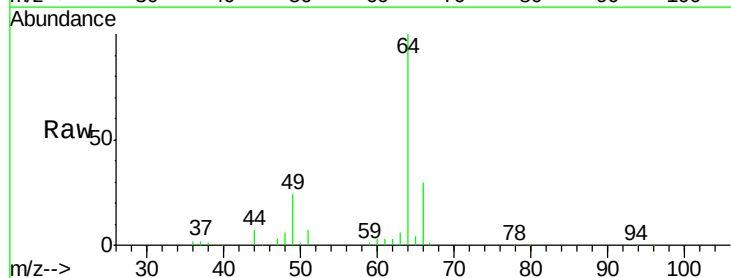
Instrument :
MSVOA_U
ClientSampled :
1220DL

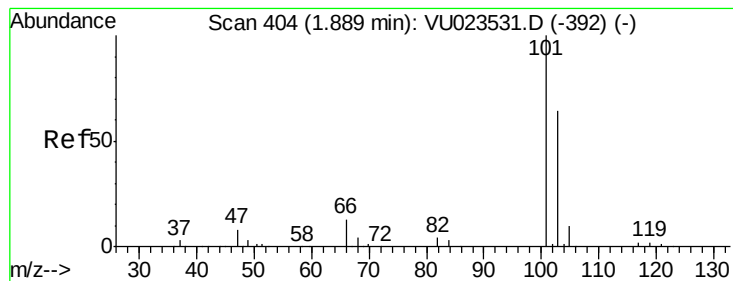
Tot Ion: 94 Resp: 91711
Ion Ratio Lower Upper
94 100
96 93.2 75.1 112.7



#6
Chloroethane
Concen: 11.29 ug/l
RT: 1.70 min Scan# 346
Delta R.T. 0.00 min
Lab File: VU023538.D
Acq: 30 Apr 2018 20:28

Tgt Ion: 64 Resp: 100493
Ion Ratio Lower Upper
64 100
66 31.5 24.9 37.3



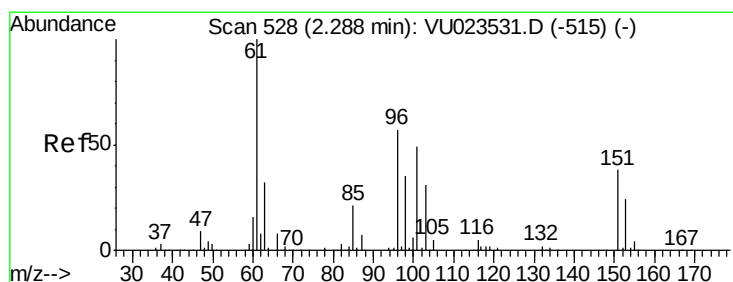
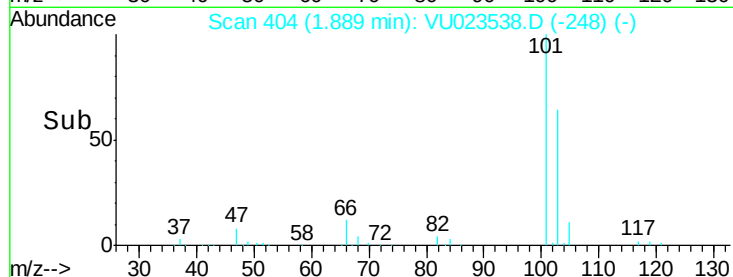
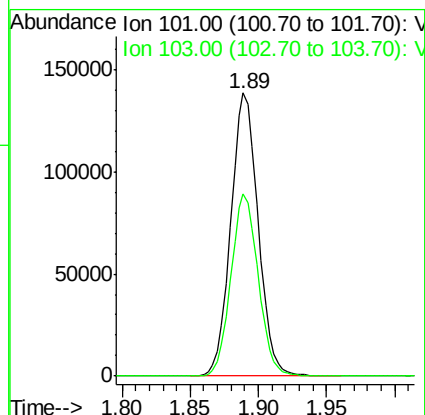
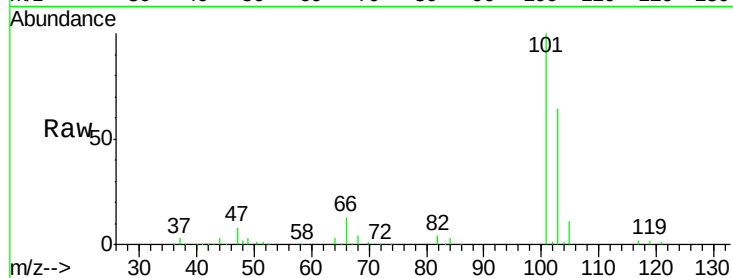


#7

Trichlorofluoromethane
Concen: 10.52 ug/l
RT: 1.89 min Scan# 404
Delta R.T. 0.00 min
Lab File: VU023538.D
Acq: 30 Apr 2018 20:28

Instrument :
MSVOA_U
ClientSampleId :
1220DL

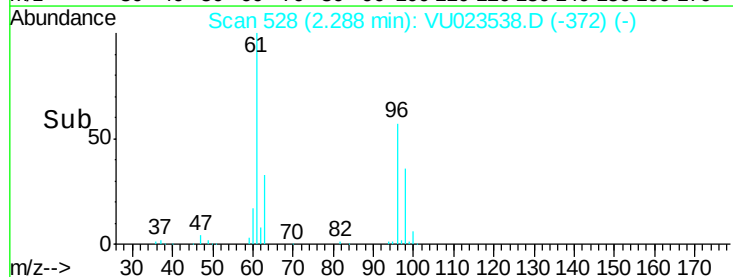
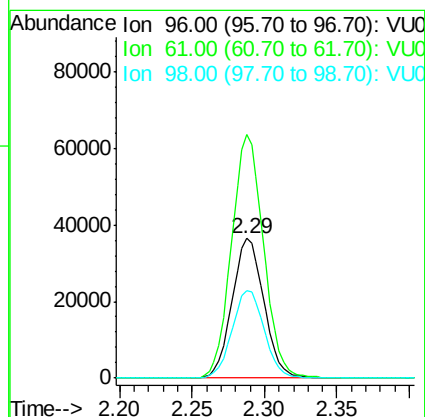
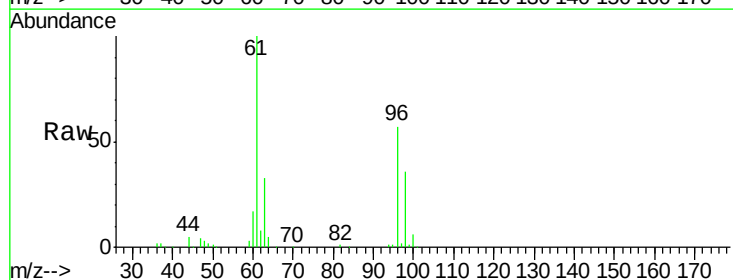
Tot Ion:101 Resp: 192958
Ion Ratio Lower Upper
101 100
103 64.3 51.4 77.0

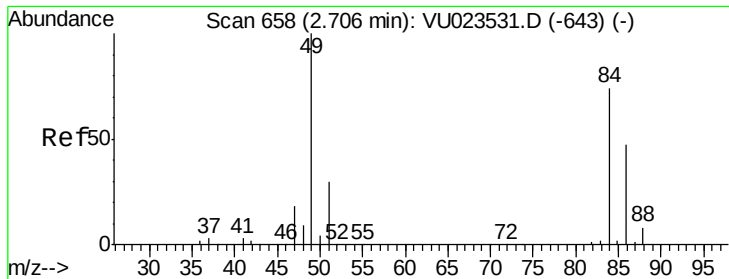


#9

1,1-Dichloroethene
Concen: 5.32 ug/l
RT: 2.29 min Scan# 528
Delta R.T. 0.00 min
Lab File: VU023538.D
Acq: 30 Apr 2018 20:28

Tgt Ion: 96 Resp: 55631
Ion Ratio Lower Upper
96 100
61 174.1 0.0 526.5
98 62.7 0.0 123.4

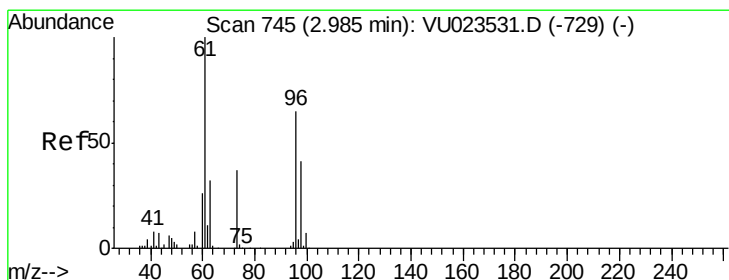
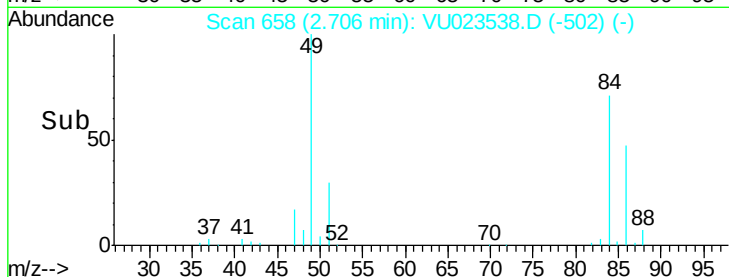
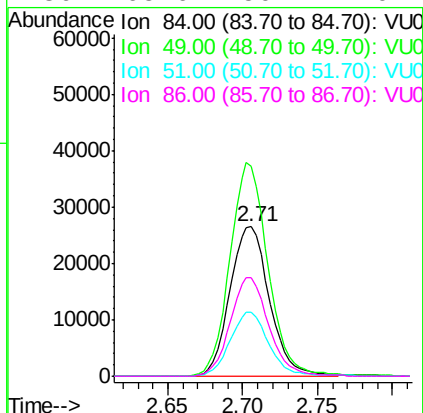
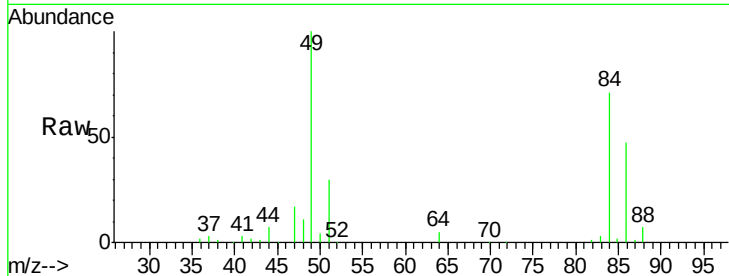




#15
Methvlene Chloride
Concen: 4.09 ug/l
RT: 2.71 min Scan# 658
Delta R.T. 0.00 min
Lab File: VU023538.D
Acq: 30 Apr 2018 20:28

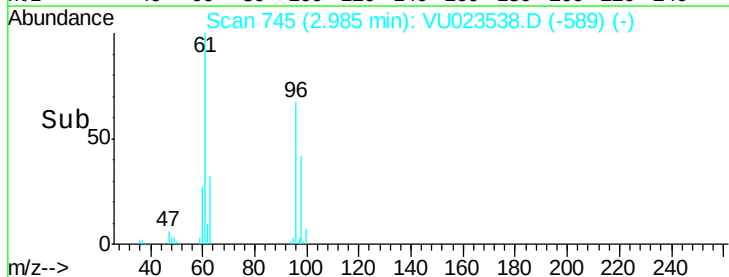
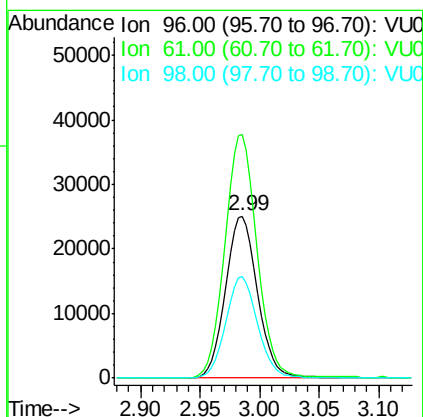
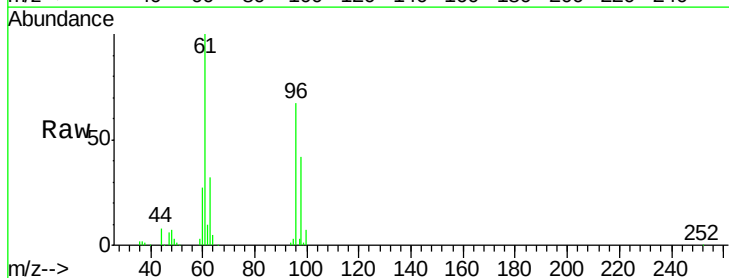
Instrument :
MSVOA_U
ClientSampleId :
1220DL

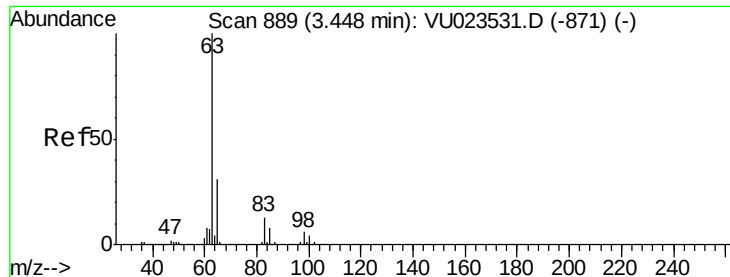
Tot Ion:	84	Resp:	48710
Ion	Ratio	Lower	Upper
84	100		
49	140.3	108.7	163.1
51	42.4	0.0	82.4
86	65.6	50.7	76.1



#16
trans-1,2-Dichloroethene
Concen: 4.17 ug/l
RT: 2.99 min Scan# 745
Delta R.T. 0.00 min
Lab File: VU023538.D
Acq: 30 Apr 2018 20:28

Tgt Ion:	96	Resp:	46803
Ion	Ratio	Lower	Upper
96	100		
61	150.1	123.9	185.9
98	62.7	50.6	76.0

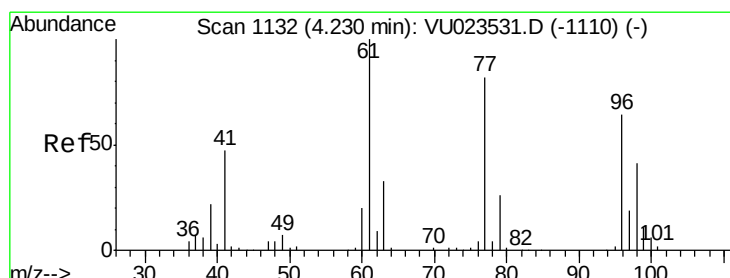
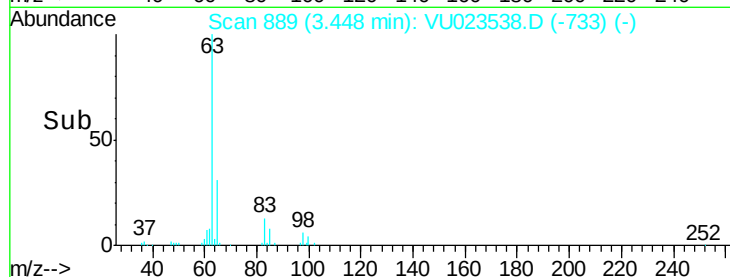
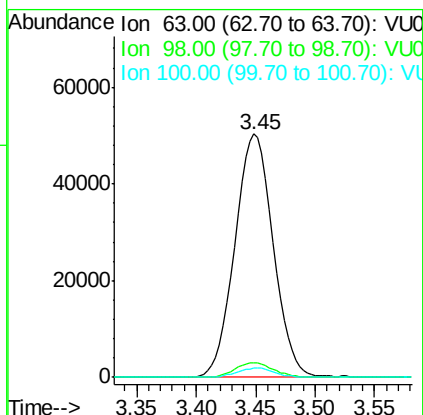
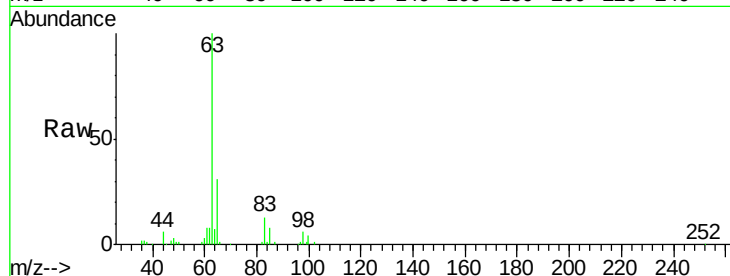




#17
 1,1-Dichloroethane
 Concen: 5.09 ug/l
 RT: 3.45 min Scan# 889
 Delta R.T. 0.00 min
 Lab File: VU023538.D
 Acq: 30 Apr 2018 20:28

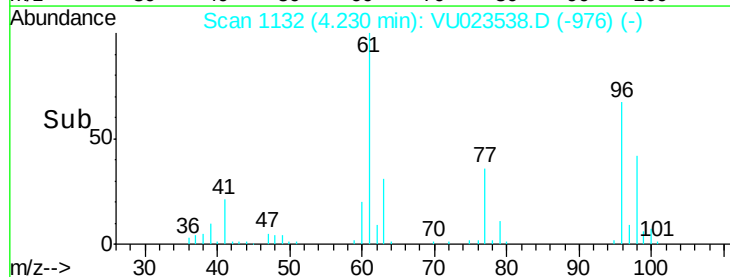
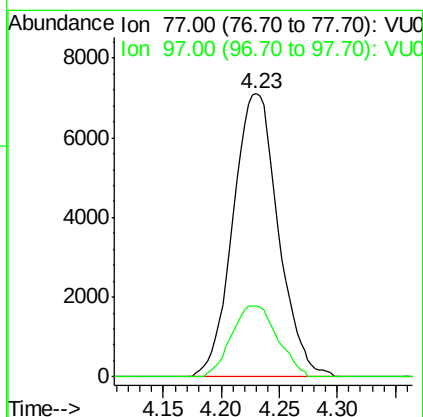
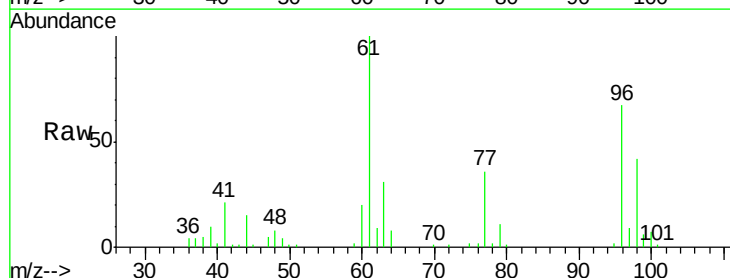
Instrument :
 MSVOA_U
 ClientSampleId :
 1220DL

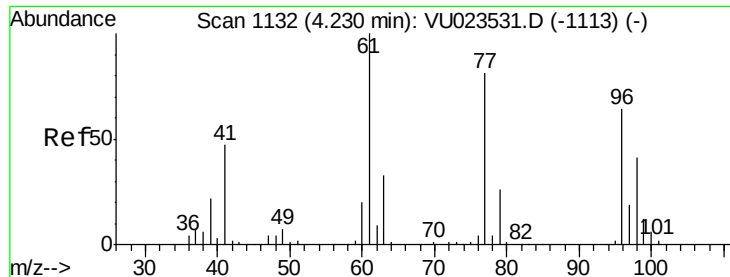
Tot Ion:	63	Resp:	112368
Ion	Ratio	Lower	Upper
63	100		
98	6.0	2.9	8.8
100	3.8	2.0	5.8



#21
 2,2-Dichloropropane
 Concen: 1.11 ug/l
 RT: 4.23 min Scan# 1132
 Delta R.T. 0.00 min
 Lab File: VU023538.D
 Acq: 30 Apr 2018 20:28

Tgt Ion:	77	Resp:	19360
Ion	Ratio	Lower	Upper
77	100		
97	25.5	17.9	26.9

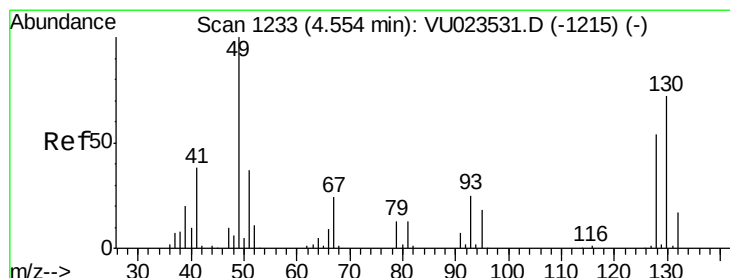
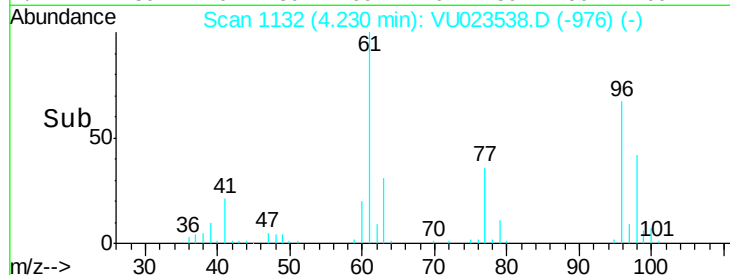
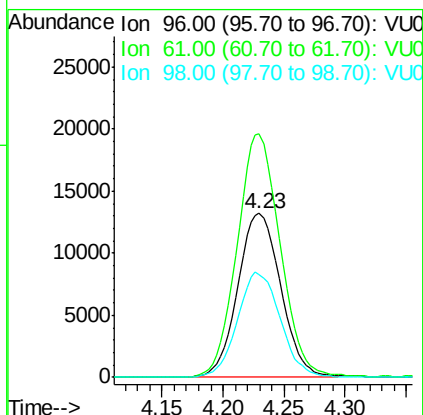
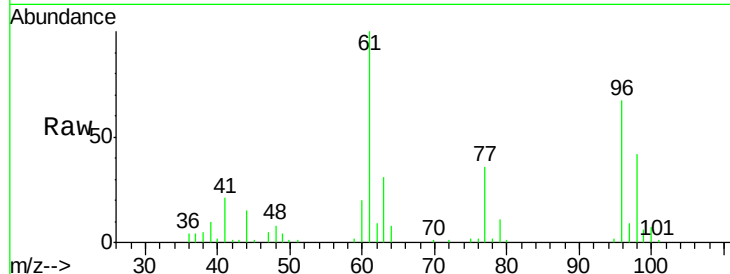




#22
 cis-1,2-Dichloroethene
 Concen: 2.66 ug/l
 RT: 4.23 min Scan# 1132
 Delta R.T. 0.00 min
 Lab File: VU023538.D
 Acq: 30 Apr 2018 20:28

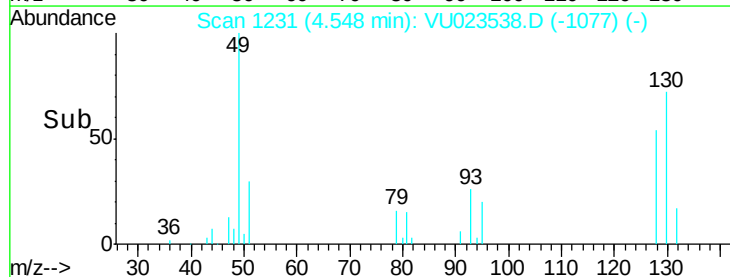
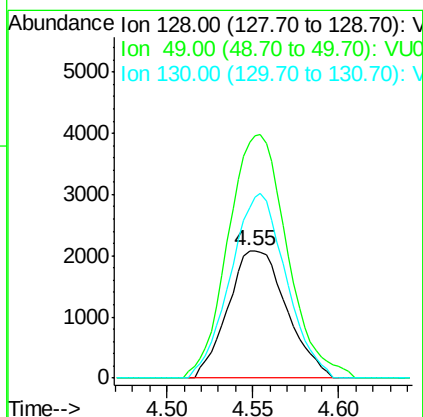
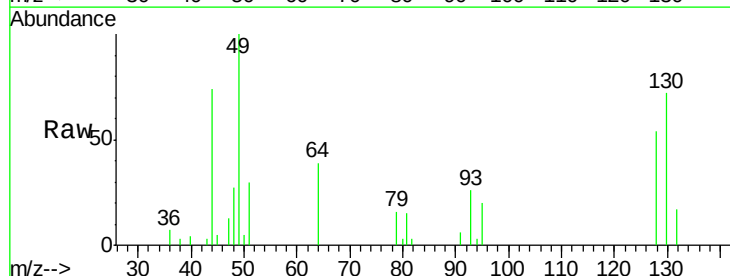
Instrument :
 MSVOA_U
 ClientSampleID :
 1220DL

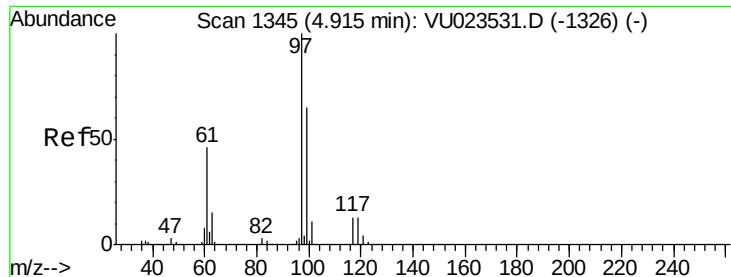
Tot Ion: 96 Resp: 32266
 Ion Ratio Lower Upper
 96 100
 61 148.5 0.0 400.5
 98 63.6 32.2 96.6



#26
 Bromochloromethane
 Concen: 1.03 ug/l
 RT: 4.55 min Scan# 1231
 Delta R.T. -0.01 min
 Lab File: VU023538.D
 Acq: 30 Apr 2018 20:28

Tgt Ion: 128 Resp: 4946
 Ion Ratio Lower Upper
 128 100
 49 191.9 0.0 375.2
 130 137.0 105.8 158.6

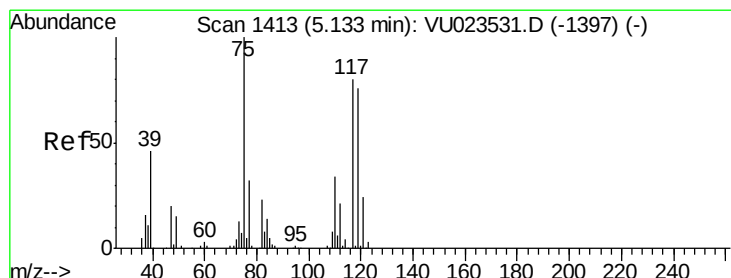
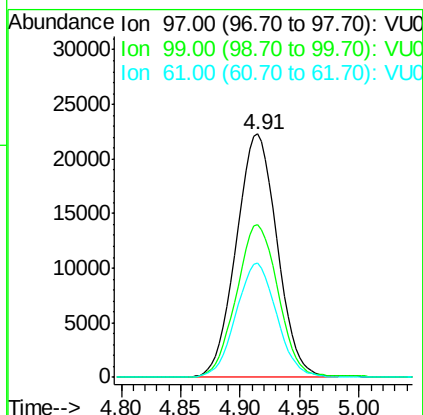
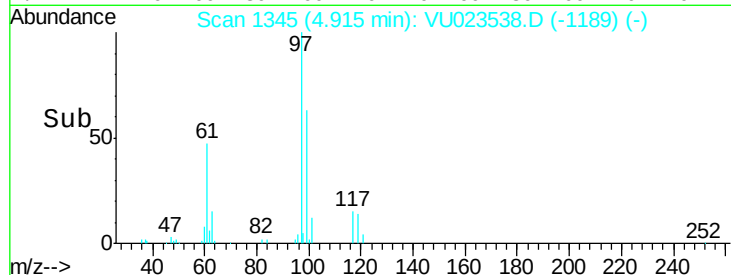
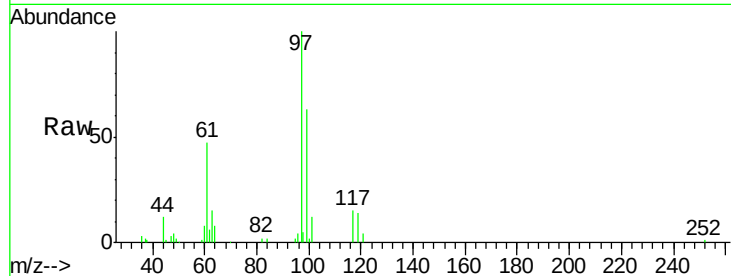




#28
 1,1,1-Trichloroethane
 Concen: 3.13 ug/l
 RT: 4.91 min Scan# 1345
 Delta R.T. 0.00 min
 Lab File: VU023538.D
 Acq: 30 Apr 2018 20:28

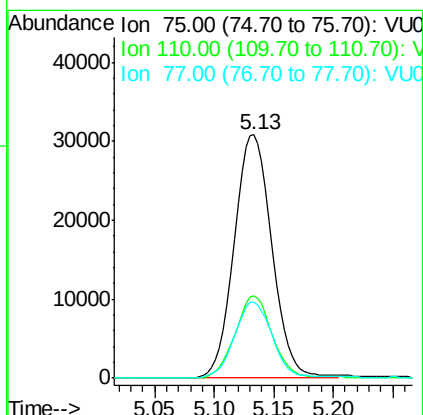
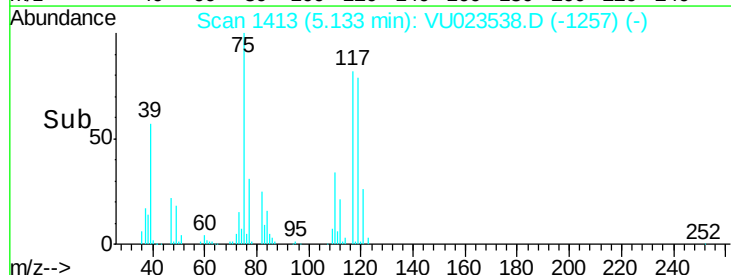
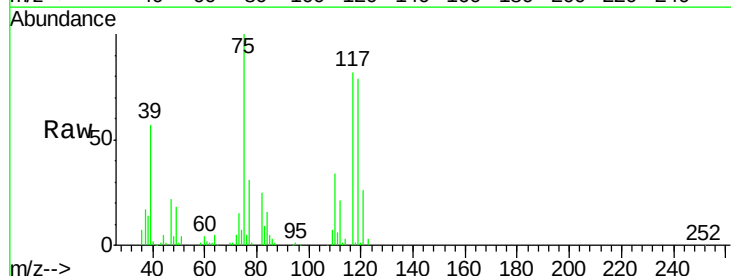
Instrument :
 MSVOA_U
 ClientSampleId :
 1220DL

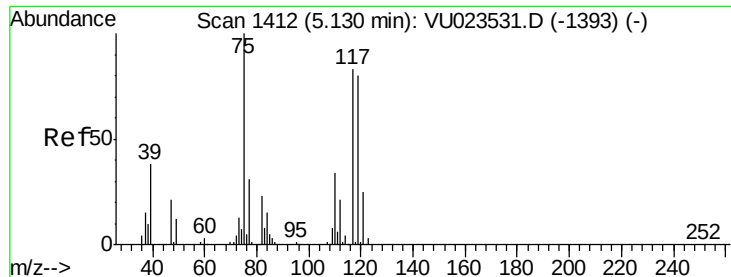
Tot Ion: 97 Resp: 53322
 Ion Ratio Lower Upper
 97 100
 99 63.9 32.3 96.9
 61 46.5 23.2 69.5



#29
 1,1-Dichloropropene
 Concen: 4.05 ug/l
 RT: 5.13 min Scan# 1413
 Delta R.T. 0.00 min
 Lab File: VU023538.D
 Acq: 30 Apr 2018 20:28

Tgt Ion: 75 Resp: 67873
 Ion Ratio Lower Upper
 75 100
 110 33.3 16.9 50.7
 77 31.4 24.8 37.2

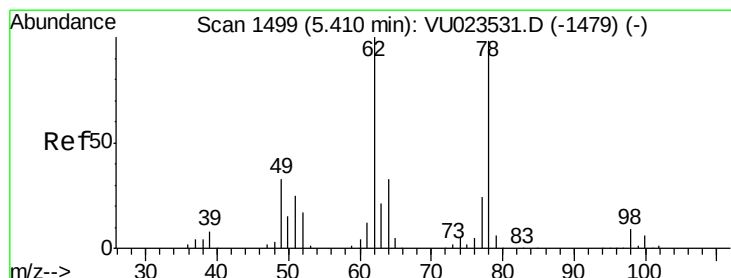
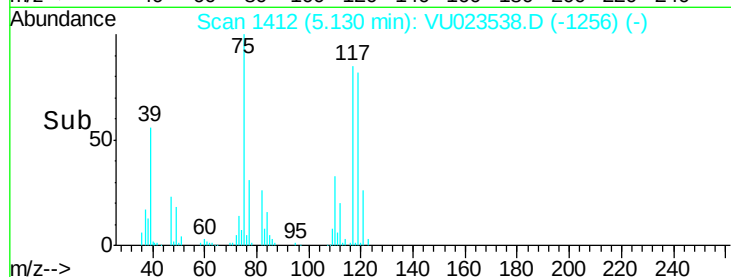
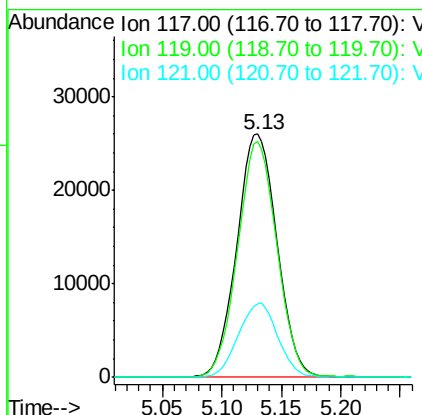
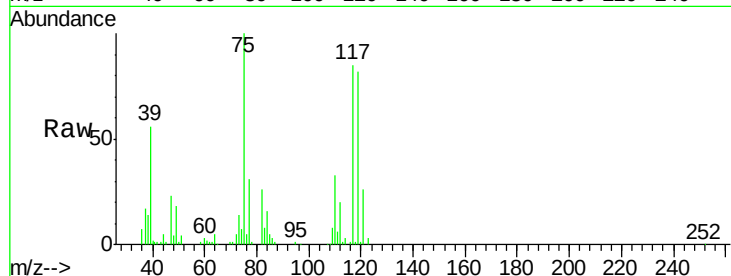




#30
Carbon Tetrachloride
Concen: 4.24 ug/l
RT: 5.13 min Scan# 1412
Delta R.T. 0.00 min
Lab File: VU023538.D
Acq: 30 Apr 2018 20:28

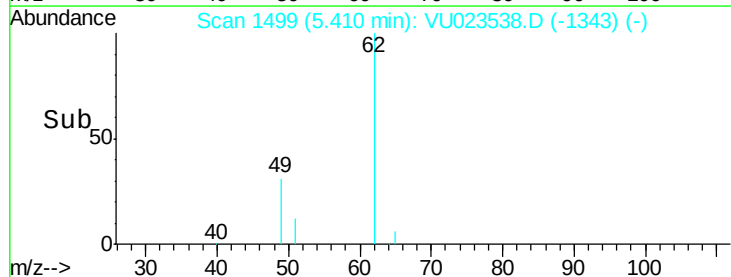
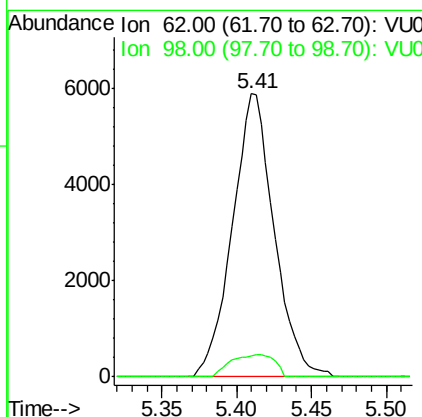
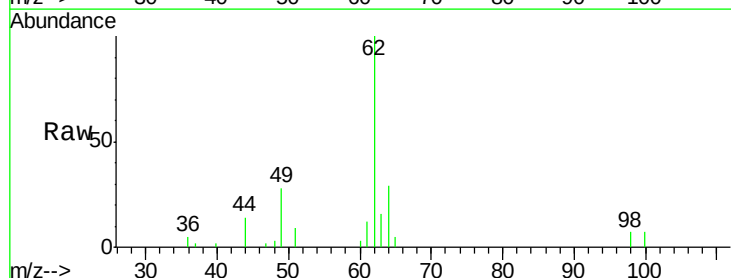
Instrument :
MSVOA_U
ClientSampleId :
1220DL

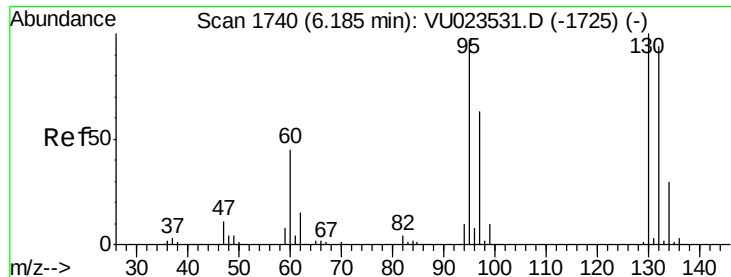
Tot Ion:117 Resp: 60919
Ion Ratio Lower Upper
117 100
119 96.7 77.3 115.9
121 30.3 24.5 36.7



#36
1,2-Dichloroethane
Concen: 0.81 ug/l
RT: 5.41 min Scan# 1499
Delta R.T. 0.00 min
Lab File: VU023538.D
Acq: 30 Apr 2018 20:28

Tgt Ion: 62 Resp: 11443
Ion Ratio Lower Upper
62 100
98 8.2 7.2 10.8





#37

Trichloroethene

Concen: 1.83 ug/l

RT: 6.18 min Scan# 1740

Delta R.T. 0.00 min

Lab File: VU023538.D

Acq: 30 Apr 2018 20:28

Instrument :

MSVOA_U

ClientSampleId :

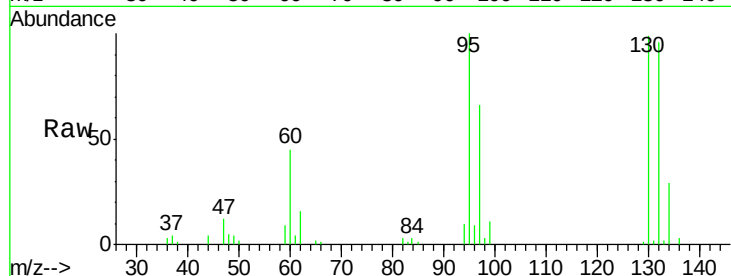
1220DL

Tot Ion:130 Resp: 24488

Ion Ratio Lower Upper

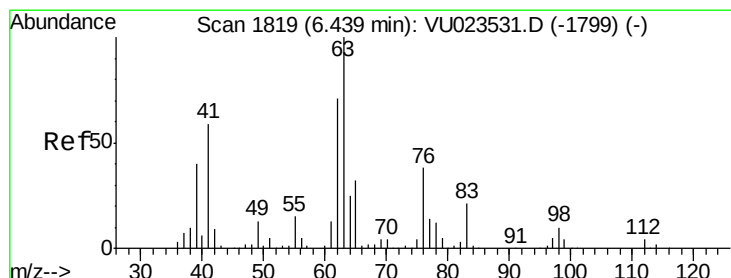
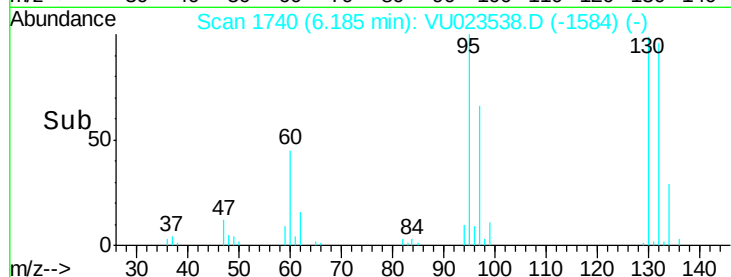
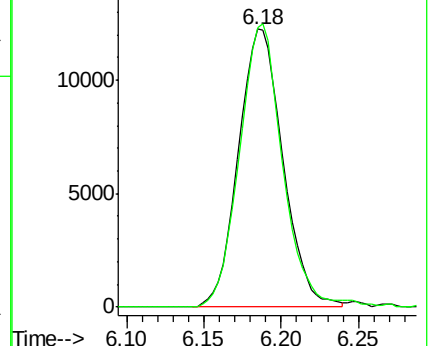
130 100

95 100.6 77.9 116.9



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VU0



#38

1,2-Dichloropropane

Concen: 0.96 ug/l

RT: 6.44 min Scan# 1819

Delta R.T. 0.00 min

Lab File: VU023538.D

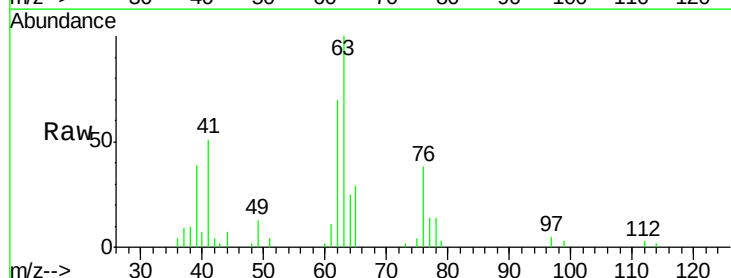
Acq: 30 Apr 2018 20:28

Tgt Ion: 63 Resp: 13037

Ion Ratio Lower Upper

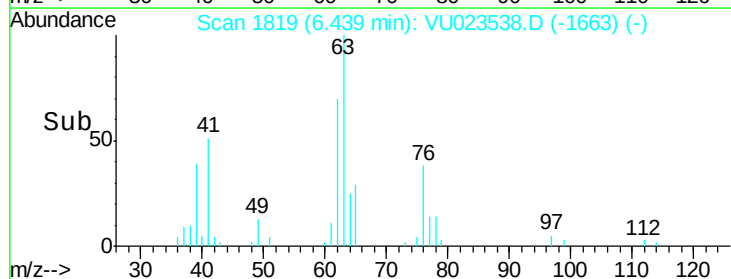
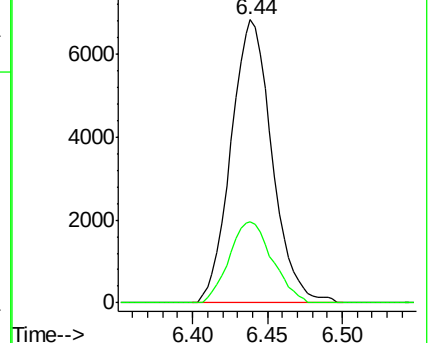
63 100

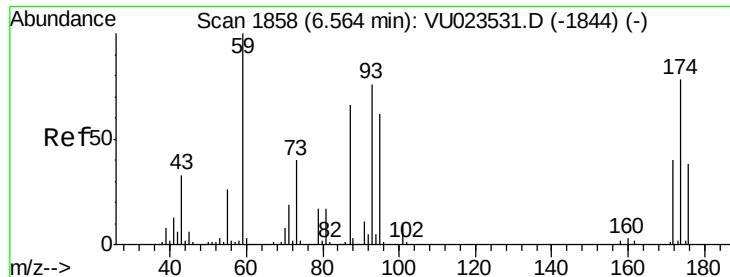
65 28.8 25.8 38.8



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 65.00 (64.70 to 65.70): VU0





#43

Dibromomethane

Concen: 1.74 ug/l

RT: 6.56 min Scan# 1858

Delta R.T. 0.00 min

Lab File: VU023538.D

Acq: 30 Apr 2018 20:28

Instrument :

MSVOA_U

ClientSampleId :

1220DL

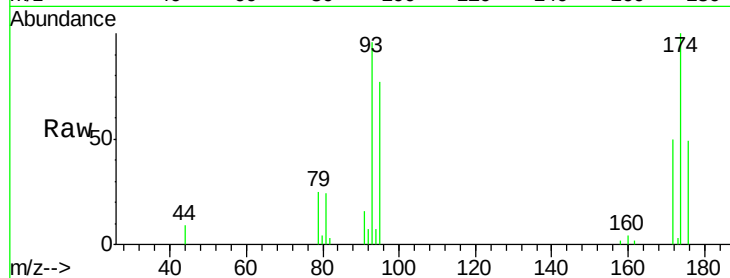
Tot Ion: 93 Resp: 10206

Ion Ratio Lower Upper

93 100

95 82.8 67.2 100.8

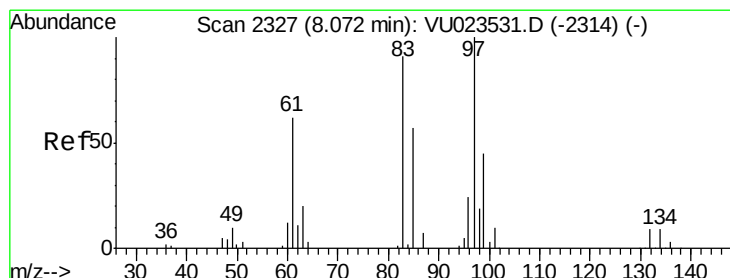
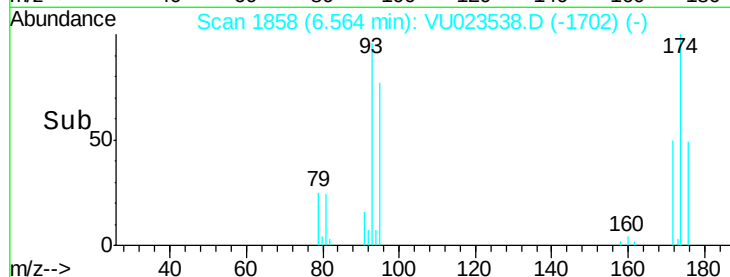
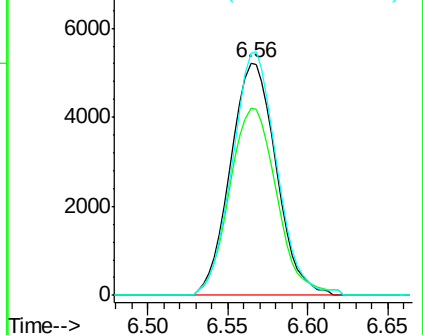
174 101.5 82.8 124.2



Abundance Ion 93.00 (92.70 to 93.70): VU023538.D (-1702) (-)

Ion 95.00 (94.70 to 95.70): VU023538.D (-1702) (-)

Ion 174.00 (173.70 to 174.70): VU023538.D (-1702) (-)



#52

1,1,2-Trichloroethane

Concen: 4.93 ug/l

RT: 8.07 min Scan# 2327

Delta R.T. 0.00 min

Lab File: VU023538.D

Acq: 30 Apr 2018 20:28

Tgt Ion: 97 Resp: 41136

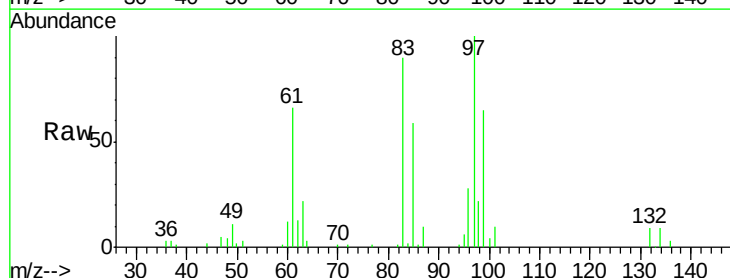
Ion Ratio Lower Upper

97 100

83 90.3 72.6 109.0

85 59.0 47.2 70.8

99 65.2 50.8 76.2

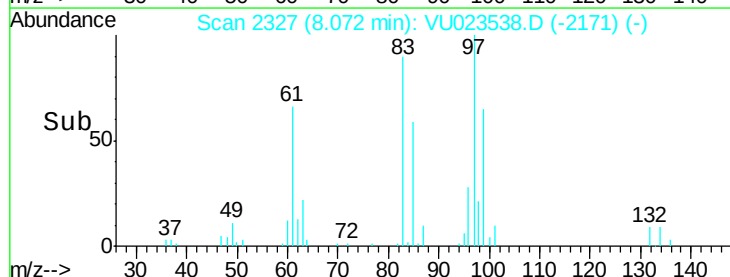
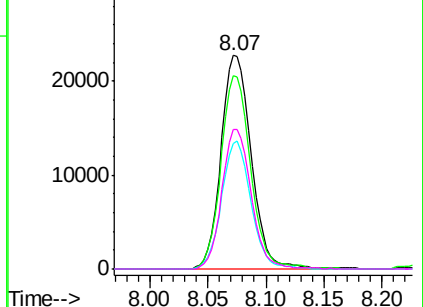


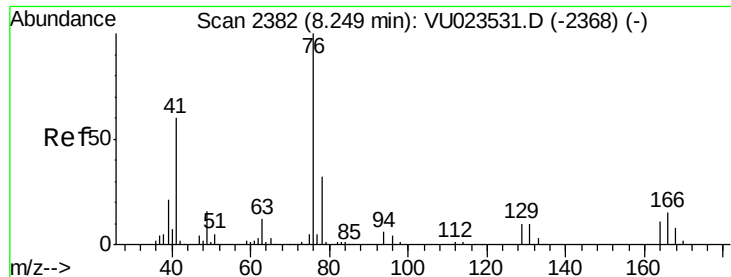
Abundance Ion 97.00 (96.70 to 97.70): VU023538.D (-2171) (-)

Ion 82.95 (82.65 to 83.65): VU023538.D (-2171) (-)

Ion 84.95 (84.65 to 85.65): VU023538.D (-2171) (-)

Ion 98.95 (98.65 to 99.65): VU023538.D (-2171) (-)

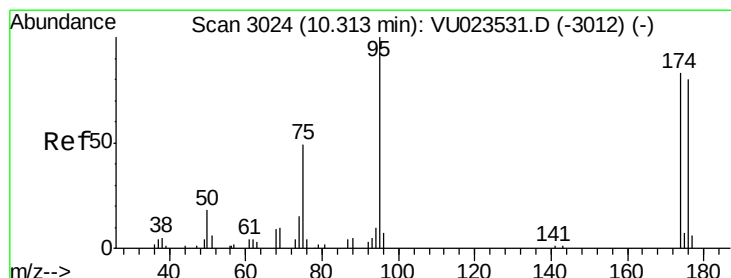
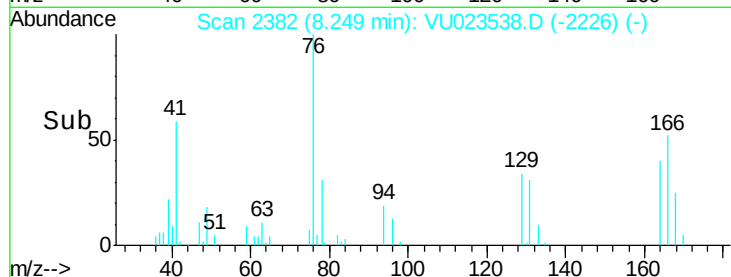
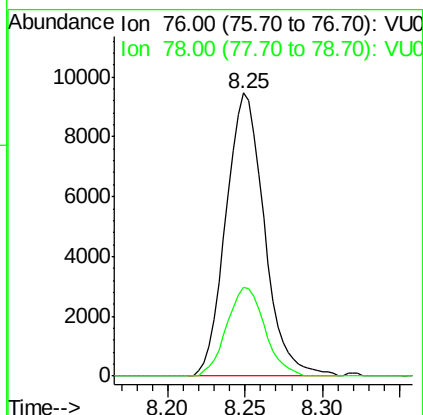
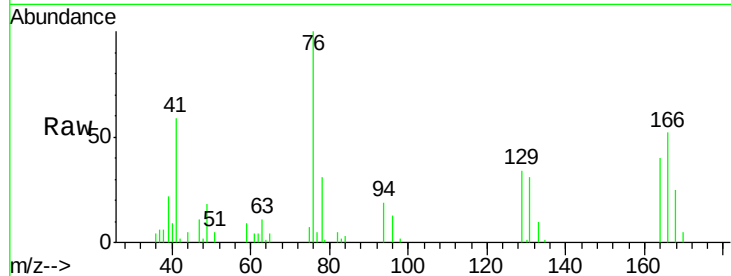




#53
 1,3-Dichloropropane
 Concen: 1.10 ug/l
 RT: 8.25 min Scan# 2382
 Delta R.T. 0.00 min
 Lab File: VU023538.D
 Acq: 30 Apr 2018 20:28

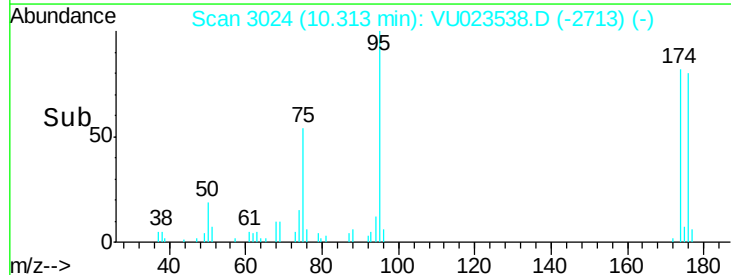
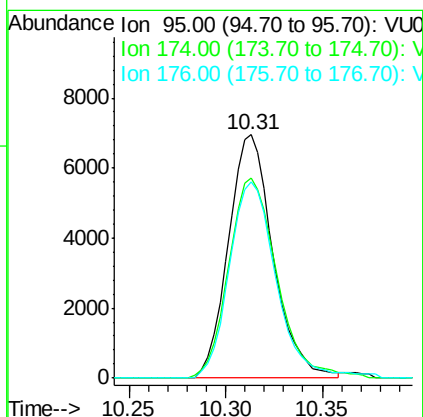
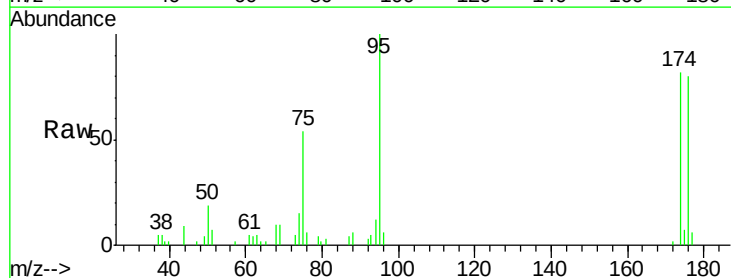
Instrument :
 MSVOA_U
 ClientSampleID :
 1220DL

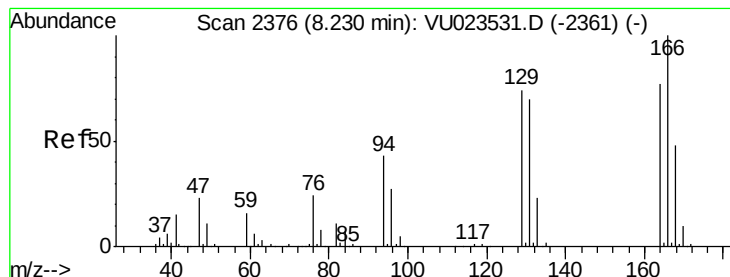
Tot Ion: 76 Resp: 16318
 Ion Ratio Lower Upper
 76 100
 78 31.0 25.7 38.5



#57
 4-Bromofluorobenzene
 Concen: N.D. ug/l
 RT: 10.31 min Scan# 3024
 Delta R.T. 0.00 min
 Lab File: VU023538.D
 Acq: 30 Apr 2018 20:28

Tgt Ion: 95 Resp: 11134
 Ion Ratio Lower Upper
 95 100
 174 89.0 65.6 98.4
 176 84.9 62.0 93.0





#58

Tetrachloroethene

Concen: 2.33 ug/l

RT: 8.23 min Scan# 2376

Delta R.T. 0.00 min

Lab File: VU023538.D

Acq: 30 Apr 2018 20:28

Instrument :

MSVOA_U

ClientSampleId :

1220DL

Tot Ion:164 Resp: 28422

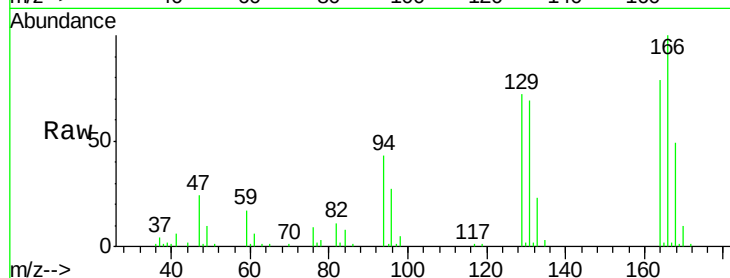
Ion Ratio Lower Upper

164 100

166 125.9 104.1 156.1

129 90.8 76.8 115.2

131 87.2 72.6 108.8

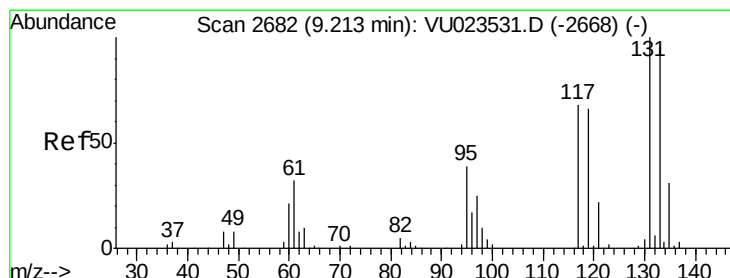
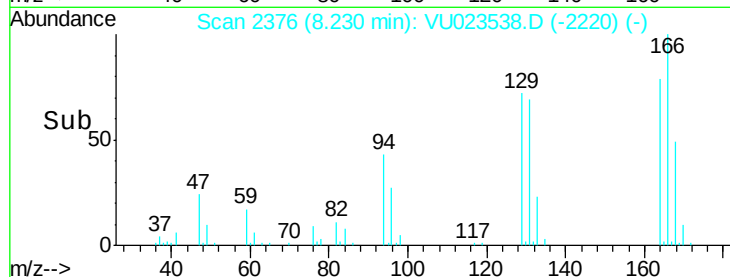
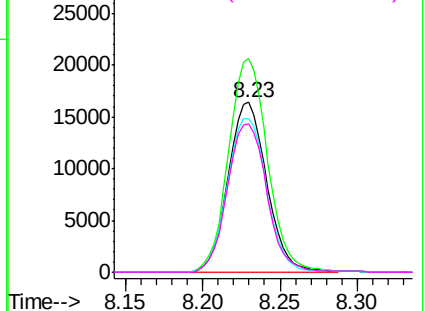


Abundance Ion 163.85 (163.55 to 164.55): V

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: 4.54 ug/l

RT: 9.21 min Scan# 2682

Delta R.T. 0.00 min

Lab File: VU023538.D

Acq: 30 Apr 2018 20:28

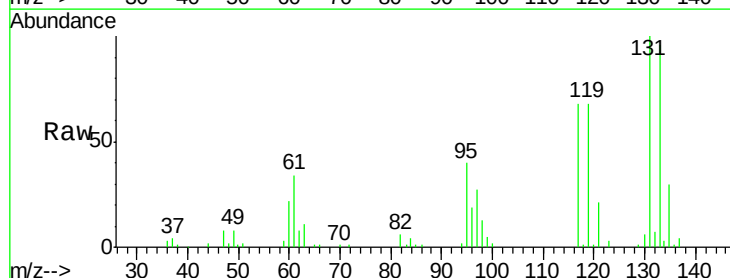
Tgt Ion:131 Resp: 47481

Ion Ratio Lower Upper

131 100

133 96.2 75.8 113.8

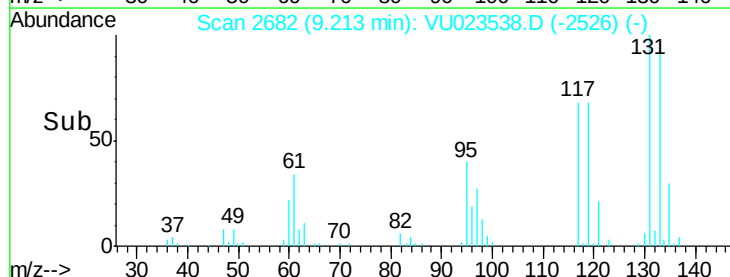
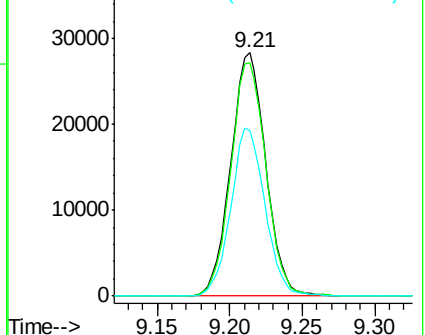
119 67.0 53.0 79.6

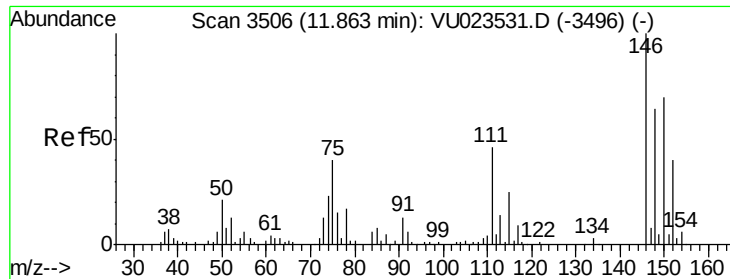


Abundance Ion 131.00 (130.70 to 131.70): V

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# 3506

Delta R.T. 0.00 min

Lab File: VU023538.D

Acq: 30 Apr 2018 20:28

Instrument :
MSVOA_U
ClientSampled :
1220DL

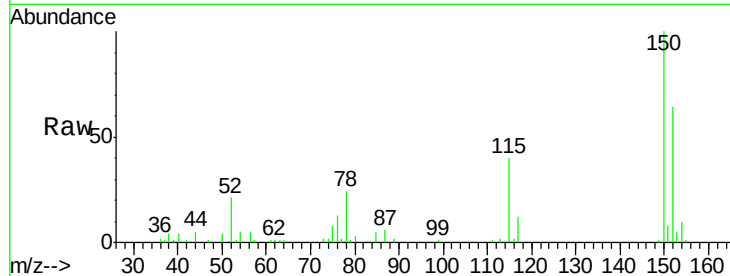
Tot Ion:152 Resp: 11769

Ion Ratio Lower Upper

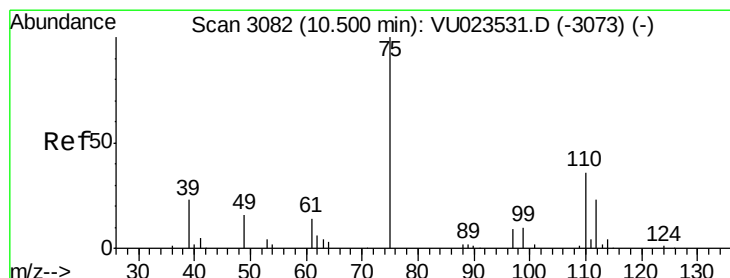
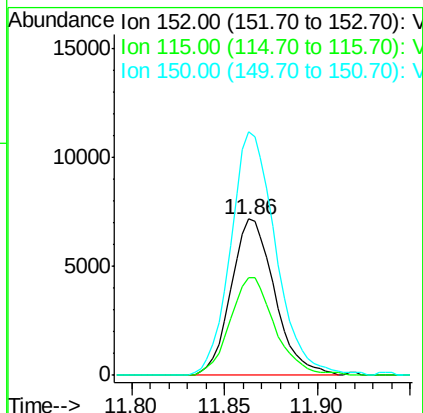
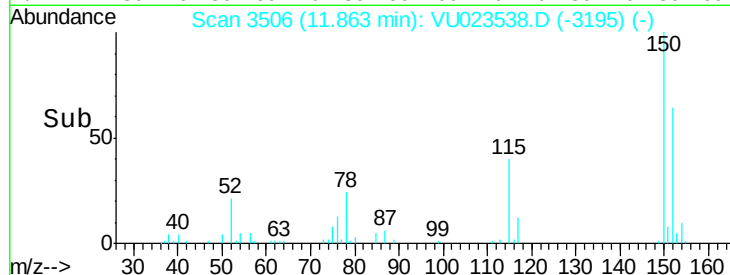
152 100

115 64.4 0.0 118.8

150 161.0 0.0 0.0#



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: 4.22 ug/l

RT: 10.50 min Scan# 3082

Delta R.T. 0.00 min

Lab File: VU023538.D

Acq: 30 Apr 2018 20:28

Tgt Ion: 75 Resp: 28401

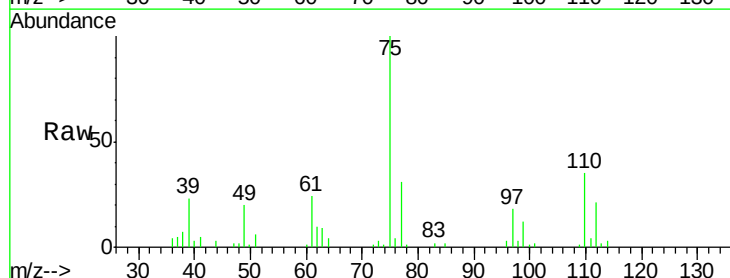
Ion Ratio Lower Upper

75 100

77 30.8 0.0 0.0#

110 34.5 0.0 74.0

97 17.7 0.0 39.6



Abundance Ion 75.00 (74.70 to 75.70): VU0
Ion 77.00 (76.70 to 77.70): VU0
Ion 110.00 (109.70 to 110.70): VU0
Ion 97.00 (96.70 to 97.70): VU0

