

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU082018\
 Data File : VU026213.D
 Acq On : 20 Aug 2018 17:10
 Operator : MD/SY
 Sample : J4045-08
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WS

Quant Time: Aug 21 10:52:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U082018DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Mon Aug 20 13:35:41 2018
 Response via : Initial Calibration

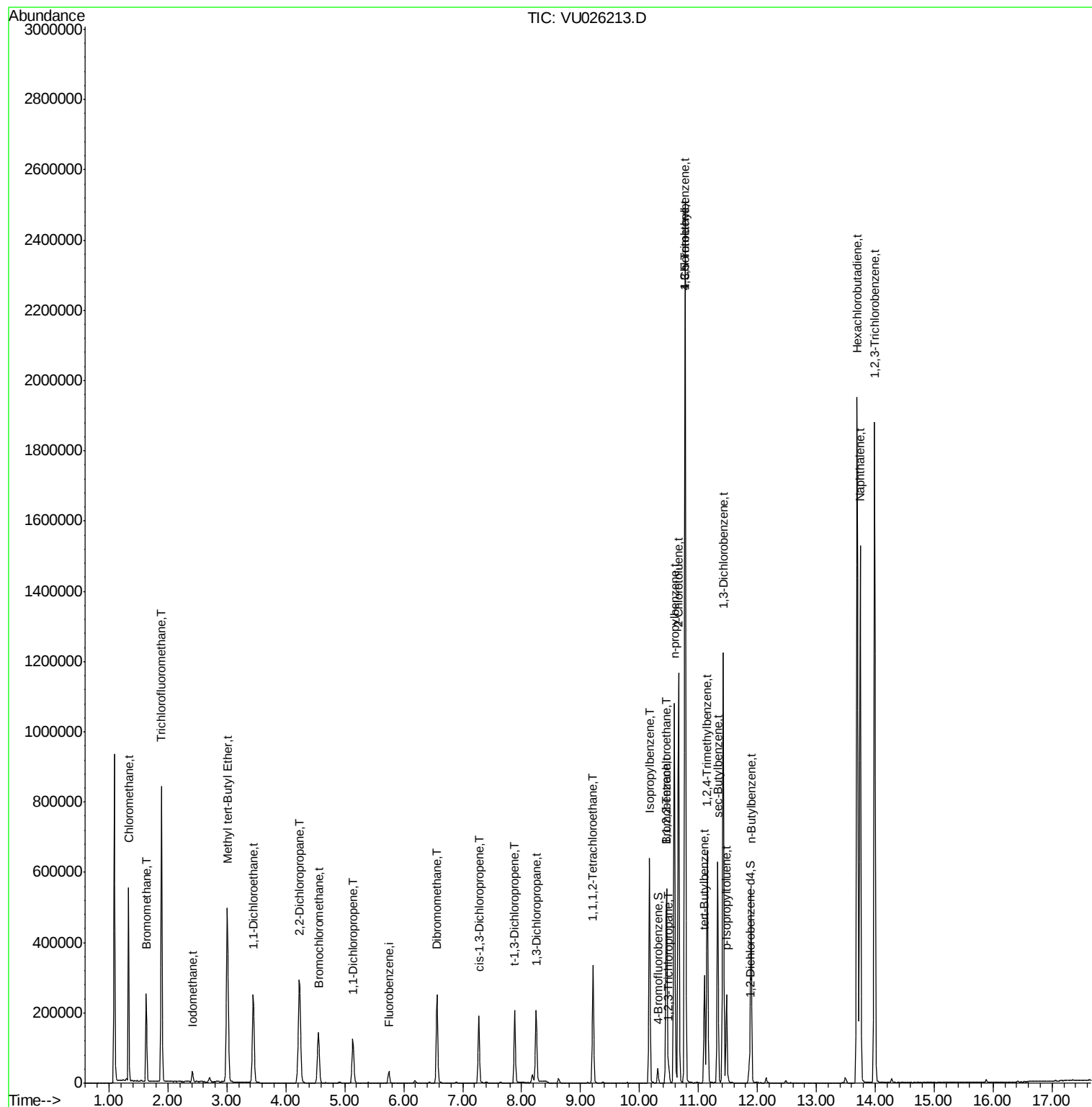
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	5.75	96	32011	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.31	95	11709	1.02	ug/l	0.00
Spiked Amount 1.000			Recovery	=	102.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	13654	1.02	ug/l	0.00
Spiked Amount 1.000			Recovery	=	102.00%	
Target Compounds						
						Ovalue
3) Chloromethane	1.33	50	339658	31.96	ug/l	99
5) Bromomethane	1.63	94	105220	18.01	ug/l	98
7) Trichlorofluoromethane	1.89	101	511919	32.60	ug/l	99
10) Iodomethane	2.41	142	27827	2.56	ug/l	92
17) 1,1-Dichloroethane	3.45	63	266139	16.91	ug/l	98
21) 2,2-Dichloropropane	4.23	77	246510	15.24	ug/l	94
25) Methyl tert-Butyl Ether	3.00	73	515042	26.57	ug/l	98
26) Bromochloromethane	4.55	128	48595	10.41	ug/l	85
29) 1,1-Dichloropropene	5.14	75	68313	5.35	ug/l	97
43) Dibromomethane	6.56	93	92615	18.25	ug/l	96
50) t-1,3-Dichloropropene	7.88	75	110690	9.90	ug/l	99
51) cis-1,3-Dichloropropene	7.27	75	109321	8.43	ug/l	99
53) 1,3-Dichloropropane	8.25	76	112525	9.84	ug/l	98
60) 1,1,1,2-Tetrachloroethane	9.21	131	91752	9.43	ug/l	99
69) Isopropylbenzene	10.17	105	375213	9.63	ug/l	98
70) 1,1,2,2-Tetrachloroethane	10.46	83	146304	16.94	ug/l	99
71) 1,2,3-Trichloropropane	10.50	75	17131	2.77	ug/l #	95
72) Bromobenzene	10.45	156	75728	6.95	ug/l	94
73) n-propylbenzene	10.59	120	180222	15.82	ug/l	97
74) 2-Chlorotoluene	10.66	126	220854	21.49	ug/l	90
75) 1,3,5-Trimethylbenzene	10.77	105	903142	26.09	ug/l	99
76) 4-Chlorotoluene	10.77	126	153471	14.53	ug/l	93
77) tert-Butylbenzene	11.10	119	135405	3.93	ug/l	93
78) 1,2,4-Trimethylbenzene	11.15	105	350820	9.79	ug/l	99
79) sec-Butylbenzene	11.33	105	404636	8.96	ug/l	98
81) p-Isopropyltoluene	11.48	119	134193	3.51	ug/l	97
82) 1,3-Dichlorobenzene	11.42	146	498241	21.70	ug/l	100
84) n-Butylbenzene	11.89	91	285241	7.71	ug/l	99
88) Hexachlorobutadiene	13.70	225	365136	40.25	ug/l	99
89) Naphthalene	13.74	128	1145710	49.05	ug/l	100
90) 1,2,3-Trichlorobenzene	13.99	180	579217	41.47	ug/l	99

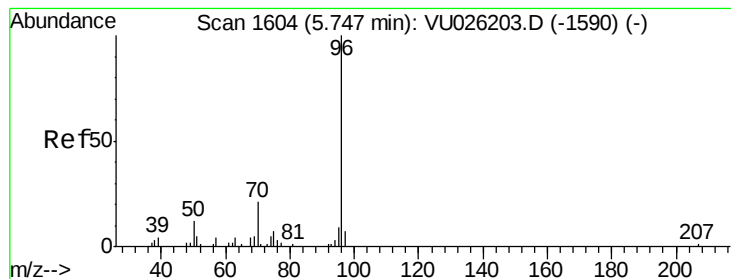
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Mon Aug 20 13:35:41 2018
Response via : Initial Calibration





#1

Fluorobenzene

Concen: 1.00 ug/l

RT: 5.75 min Scan# 1604

Delta R.T. 0.00 min

Lab File: VU026213.D

Acq: 20 Aug 2018 17:10

Instrument :

MSVOA_U

ClientSampleId :

PT-UNRVOA-WS

Tot Ion: 96 Resp: 32011

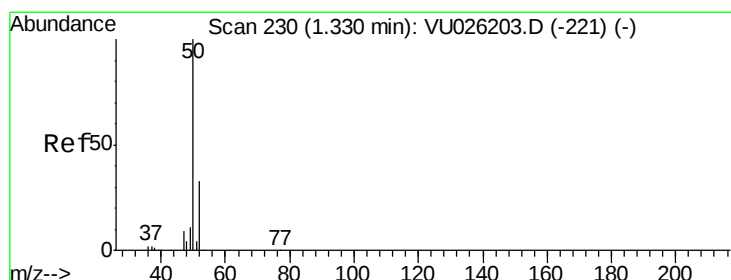
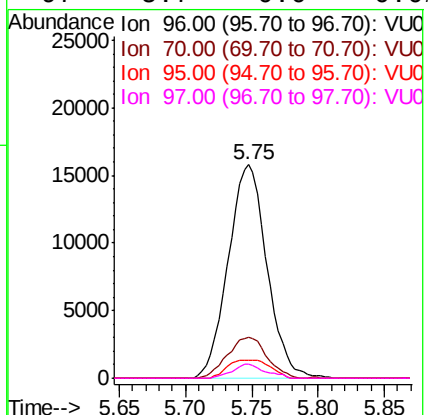
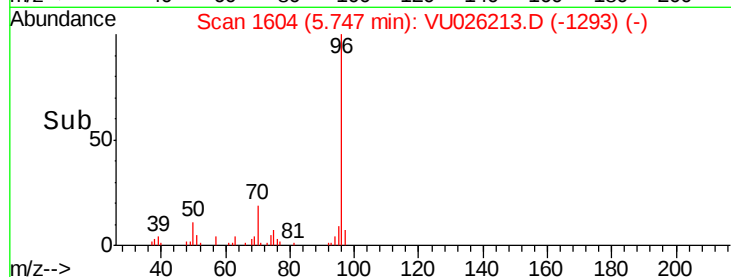
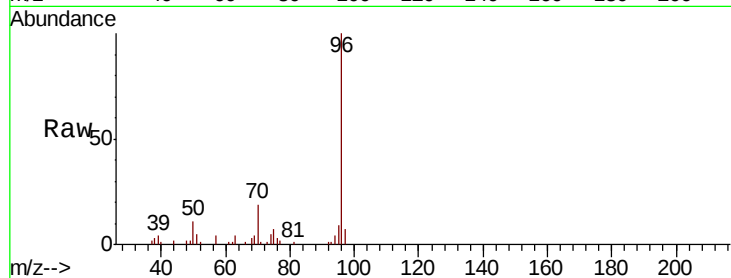
Ion Ratio Lower Upper

96 100

70 19.5 16.2 24.4

95 9.4 6.9 10.3

97 5.7 0.0 0.0#



#3

Chloromethane

Concen: 31.96 ug/l

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU026213.D

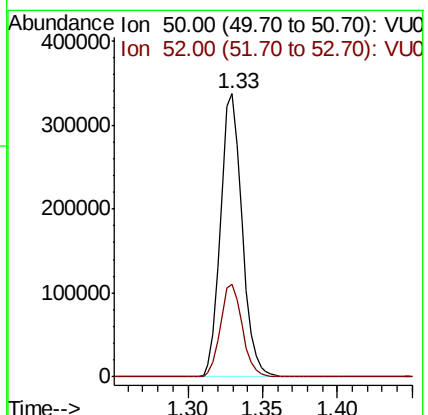
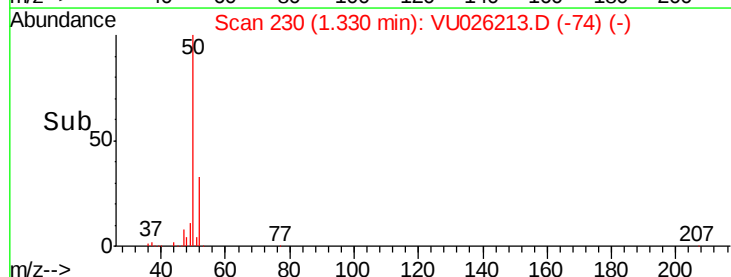
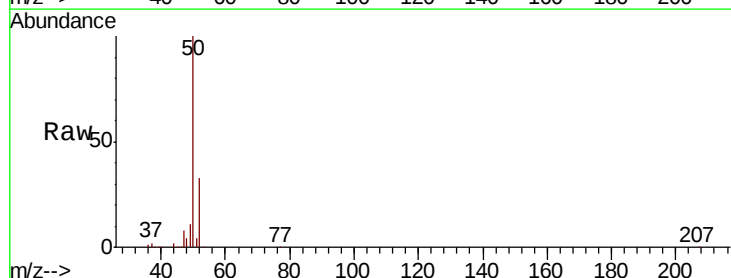
Acq: 20 Aug 2018 17:10

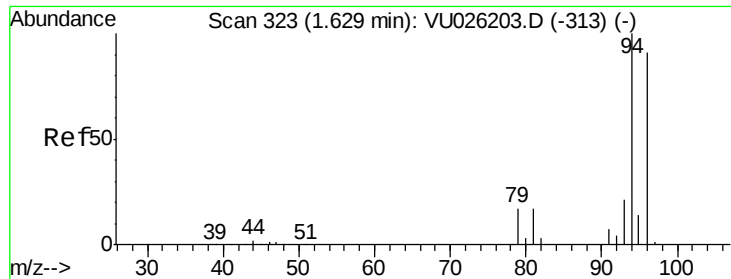
Tgt Ion: 50 Resp: 339658

Ion Ratio Lower Upper

50 100

52 32.9 26.0 39.0

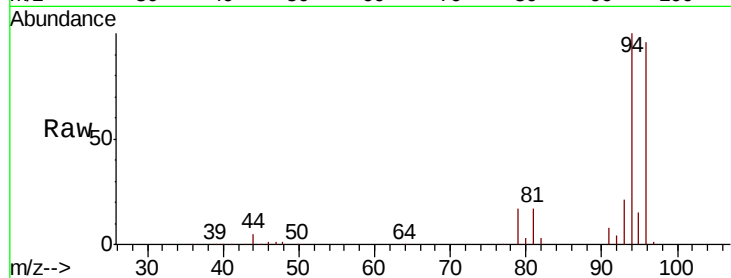




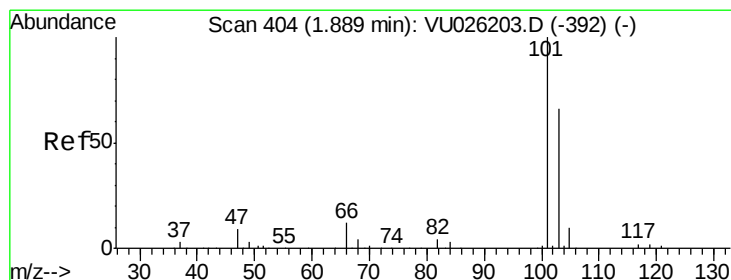
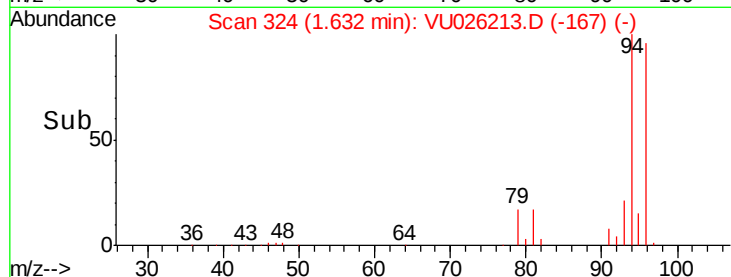
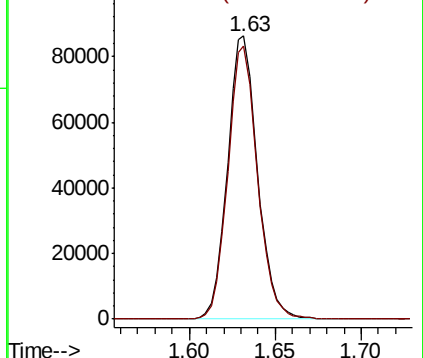
#5
Bromomethane
Concen: 18.01 ug/l
RT: 1.63 min Scan# 324
Delta R.T. 0.00 min
Lab File: VU026213.D
Acq: 20 Aug 2018 17:10

Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

Tot Ion: 94 Resp: 105220
Ion Ratio Lower Upper
94 100
96 96.3 75.1 112.7

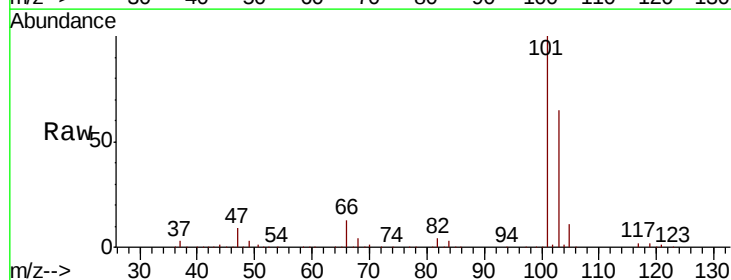


Abundance Ion 94.00 (93.70 to 94.70): VU0
Ion 96.00 (95.70 to 96.70): VU0

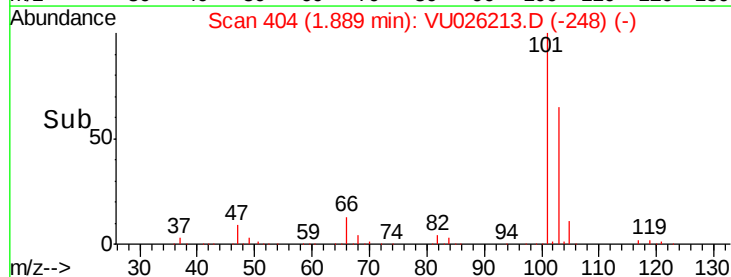
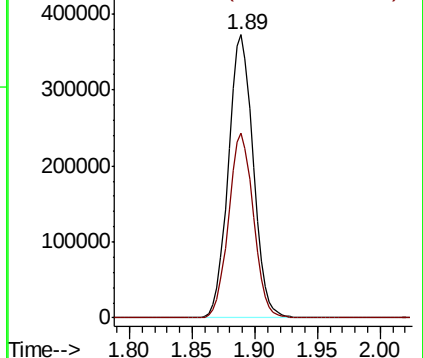


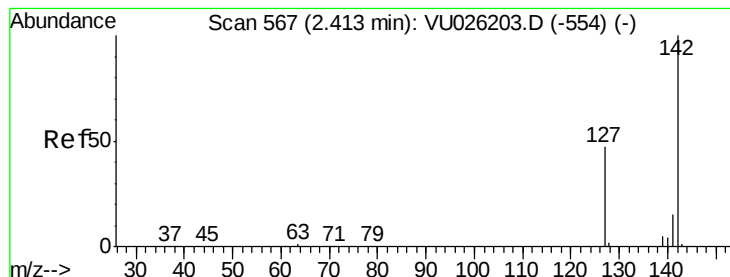
#7
Trichlorofluoromethane
Concen: 32.60 ug/l
RT: 1.89 min Scan# 404
Delta R.T. 0.00 min
Lab File: VU026213.D
Acq: 20 Aug 2018 17:10

Tgt Ion:101 Resp: 511919
Ion Ratio Lower Upper
101 100
103 65.1 51.4 77.0



Abundance Ion 101.00 (100.70 to 101.70): V
Ion 103.00 (102.70 to 103.70): V





#10

Iodomethane

Concen: 2.56 ug/l

RT: 2.41 min Scan# 567

Delta R.T. 0.00 min

Lab File: VU026213.D

Acq: 20 Aug 2018 17:10

Instrument :

MSVOA_U

ClientSampleId :

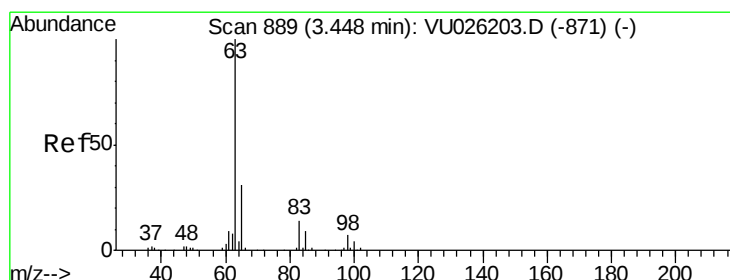
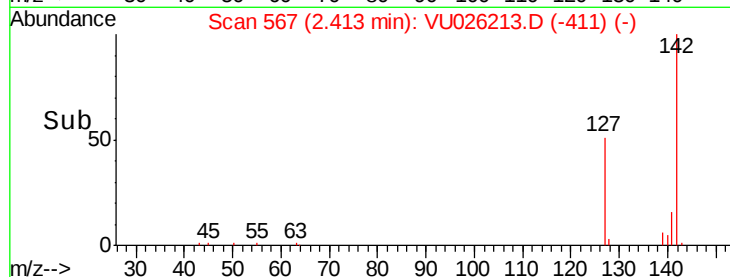
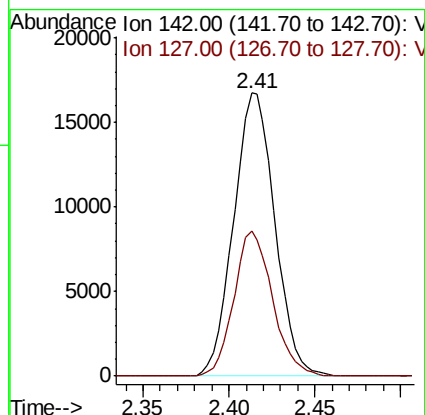
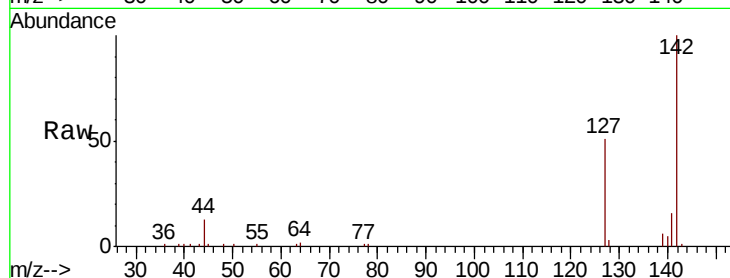
PT-UNRVOA-WS

Tot Ion:142 Resp: 27827

Ion Ratio Lower Upper

142 100

127 47.9 34.5 51.7



#17

1,1-Dichloroethane

Concen: 16.91 ug/l

RT: 3.45 min Scan# 889

Delta R.T. 0.00 min

Lab File: VU026213.D

Acq: 20 Aug 2018 17:10

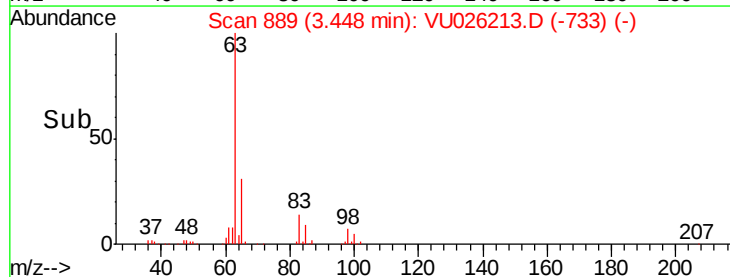
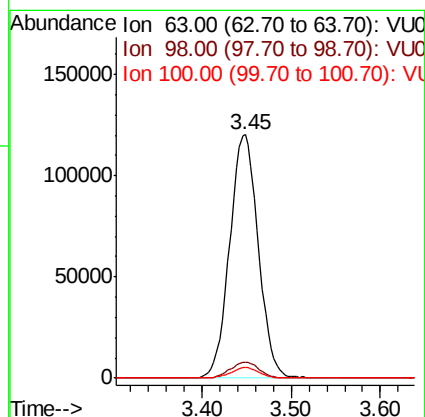
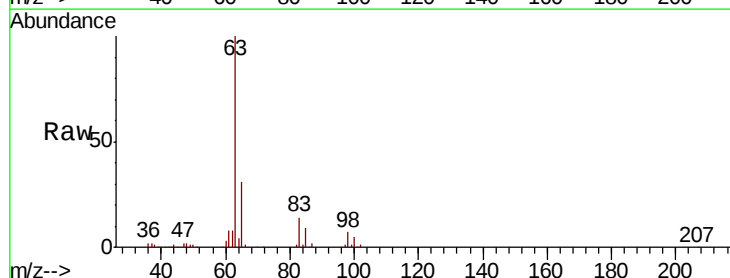
Tgt Ion: 63 Resp: 266139

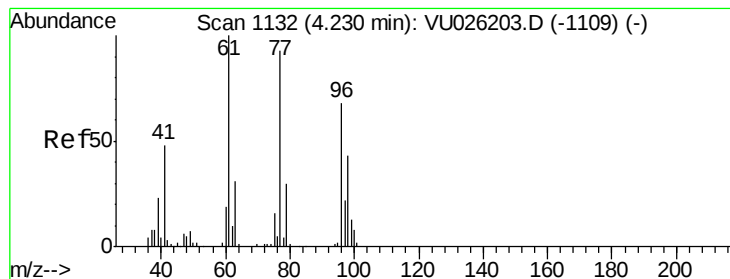
Ion Ratio Lower Upper

63 100

98 6.6 2.9 8.8

100 4.5 2.0 5.8





#21

2,2-Dichloropropane

Concen: 15.24 ug/l

RT: 4.23 min Scan# 1132

Delta R.T. 0.00 min

Lab File: VU026213.D

Acq: 20 Aug 2018 17:10

Instrument :

MSVOA_U

ClientSampleId :

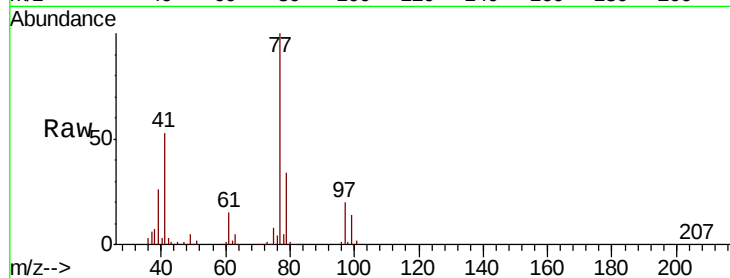
PT-UNRVOA-WS

Tot Ion: 77 Resp: 246510

Ion Ratio Lower Upper

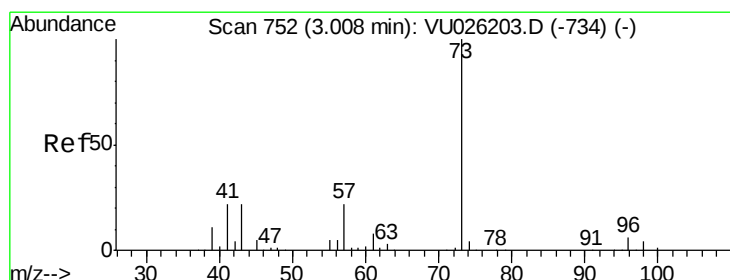
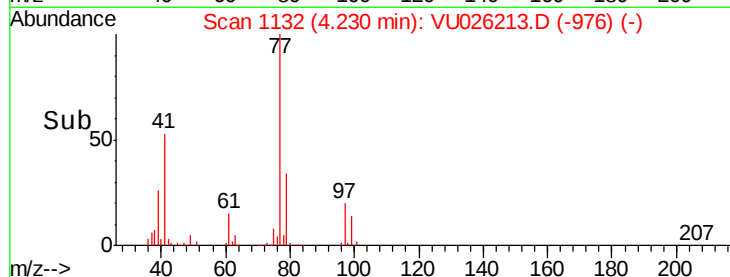
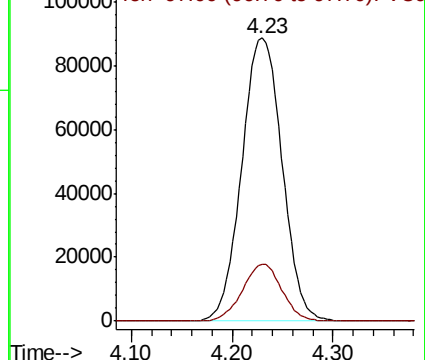
77 100

97 19.5 17.9 26.9



Abundance Ion 77.00 (76.70 to 77.70): VU0

Ion 97.00 (96.70 to 97.70): VU0



#25

Methyl tert-Butyl Ether

Concen: 26.57 ug/l

RT: 3.00 min Scan# 751

Delta R.T. -0.00 min

Lab File: VU026213.D

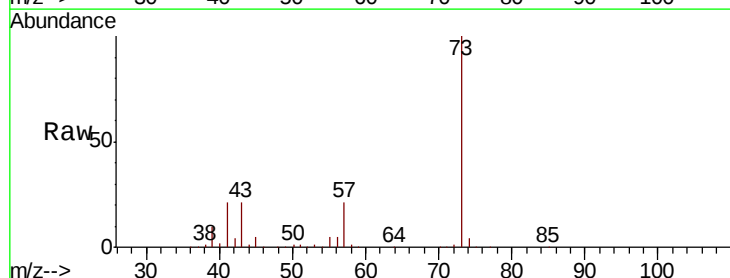
Acq: 20 Aug 2018 17:10

Tgt Ion: 73 Resp: 515042

Ion Ratio Lower Upper

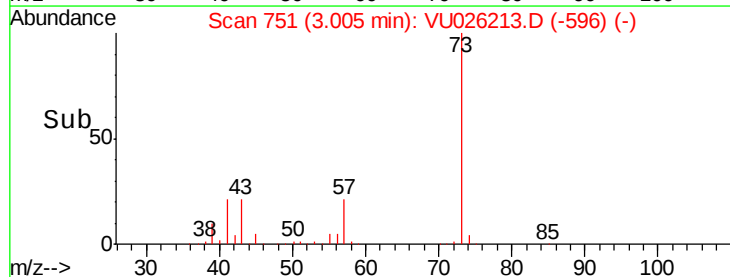
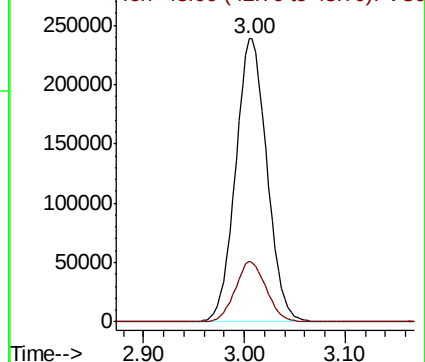
73 100

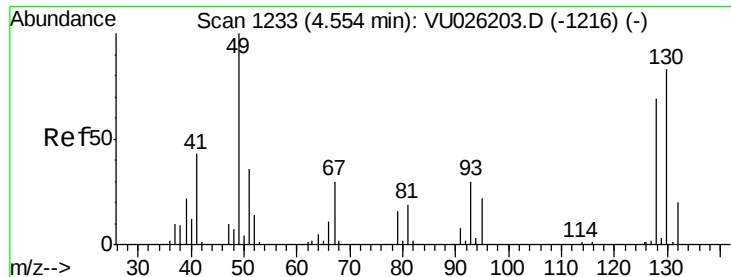
43 21.0 16.2 24.2



Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

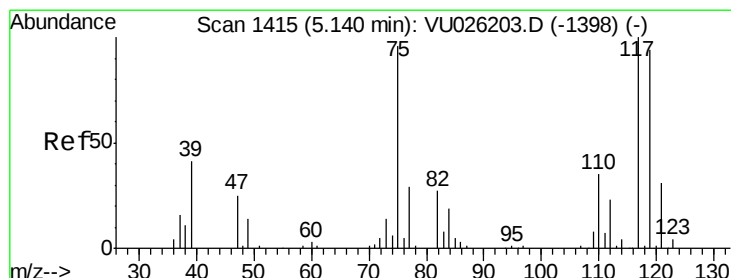
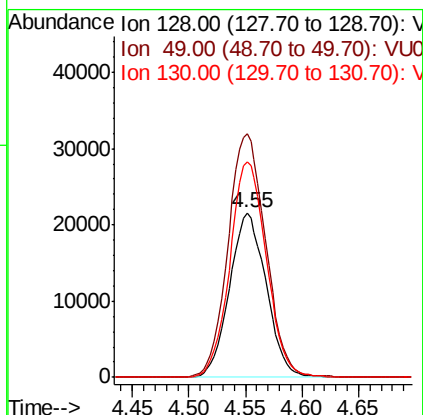
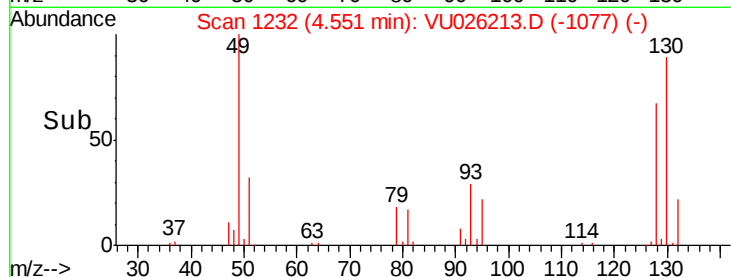
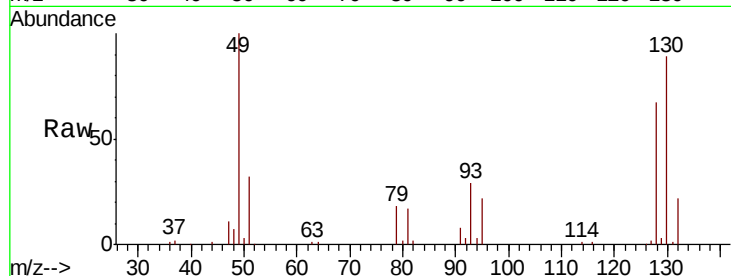




#26
Bromochloromethane
Concen: 10.41 ug/l
RT: 4.55 min Scan# 1232
Delta R.T. -0.00 min
Lab File: VU026213.D
Acq: 20 Aug 2018 17:10

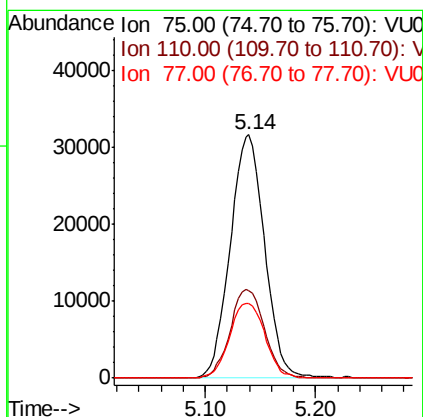
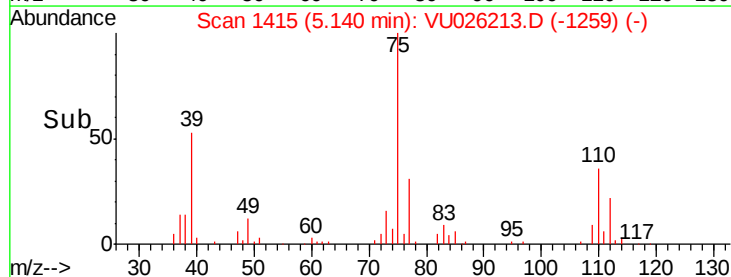
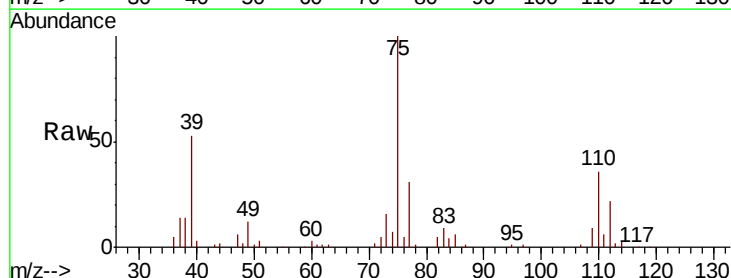
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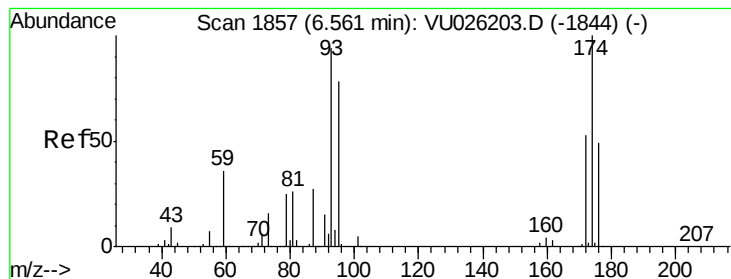
Tot Ion:128 Resp: 48595
Ion Ratio Lower Upper
128 100
49 151.9 0.0 375.2
130 131.1 105.8 158.6



#29
1,1-Dichloropropene
Concen: 5.35 ug/l
RT: 5.14 min Scan# 1415
Delta R.T. 0.00 min
Lab File: VU026213.D
Acq: 20 Aug 2018 17:10

Tgt Ion: 75 Resp: 68313
Ion Ratio Lower Upper
75 100
110 36.5 16.9 50.7
77 31.6 24.8 37.2





#43

Dibromomethane

Concen: 18.25 ug/l

RT: 6.56 min Scan# 1858

Delta R.T. 0.00 min

Lab File: VU026213.D

Acq: 20 Aug 2018 17:10

Instrument :

MSVOA_U

ClientSampleId :

PT-UNRVOA-WS

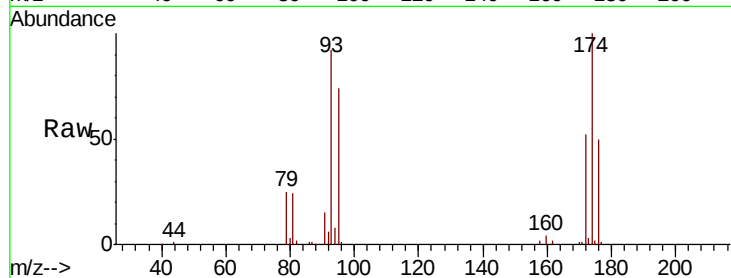
Tot Ion: 93 Resp: 92615

Ion Ratio Lower Upper

93 100

95 82.8 67.2 100.8

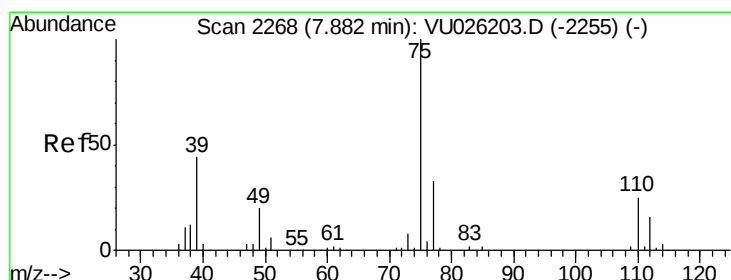
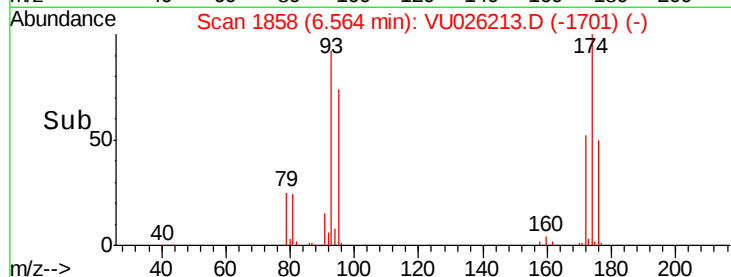
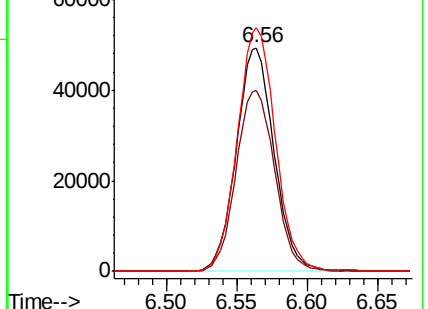
174 109.9 82.8 124.2



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



#50

t-1,3-Dichloropropene

Concen: 9.90 ug/l

RT: 7.88 min Scan# 2268

Delta R.T. 0.00 min

Lab File: VU026213.D

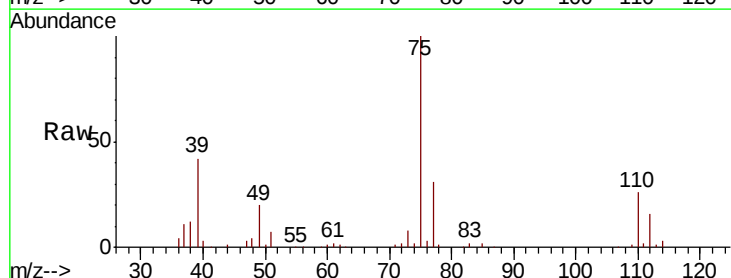
Acq: 20 Aug 2018 17:10

Tgt Ion: 75 Resp: 110690

Ion Ratio Lower Upper

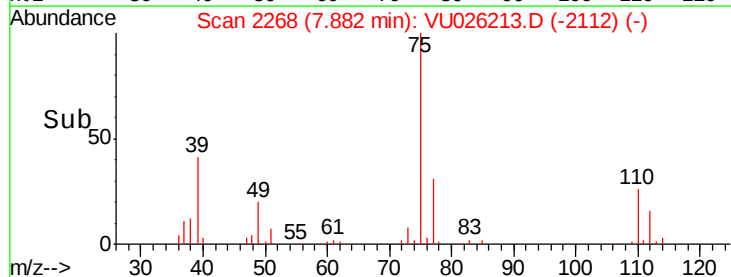
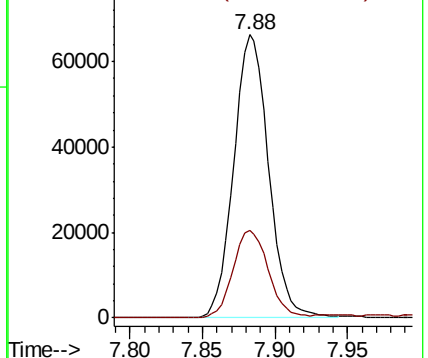
75 100

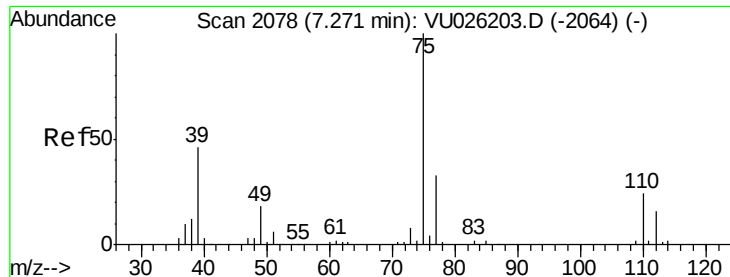
77 31.0 25.2 37.8



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



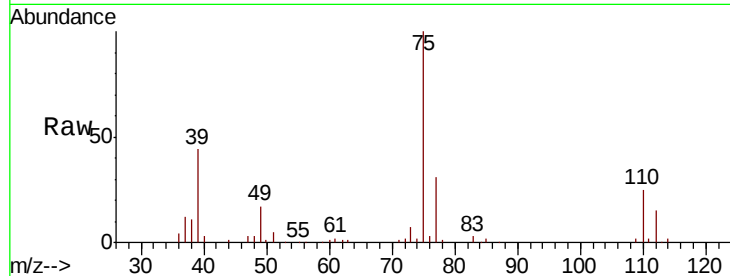


#51

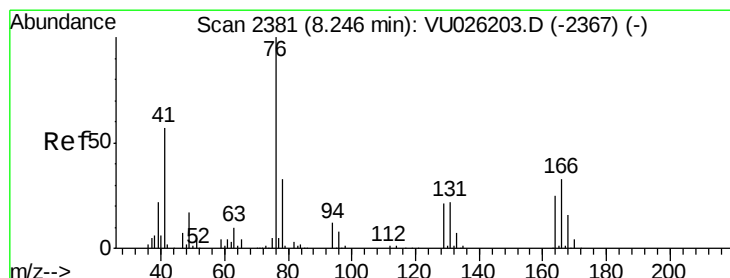
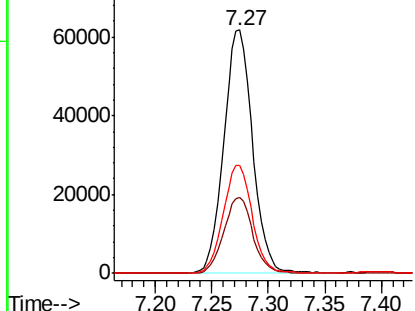
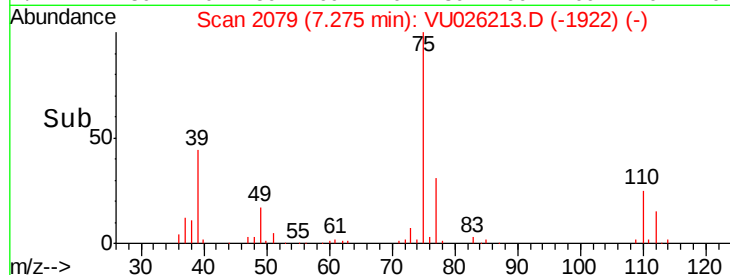
cis-1,3-Dichloropropene
 Concen: 8.43 ug/l
 RT: 7.27 min Scan# 2079
 Delta R.T. 0.00 min
 Lab File: VU026213.D
 Acq: 20 Aug 2018 17:10

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WS

Tot Ion	75	Resp	109321
Ion Ratio	Lower	Upper	
75	100		
77	31.4	25.2	37.8
39	44.3	36.4	54.6



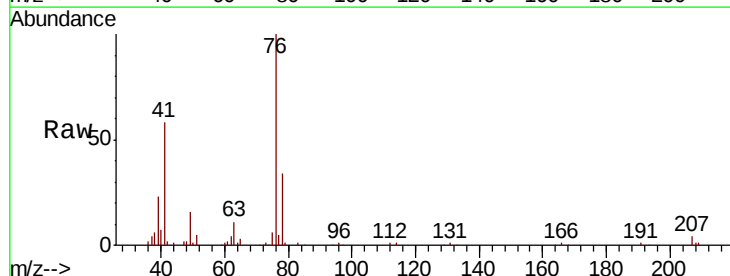
Abundance Ion 75.00 (74.70 to 75.70): VU0
 Ion 77.00 (76.70 to 77.70): VU0
 Ion 39.00 (38.70 to 39.70): VU0



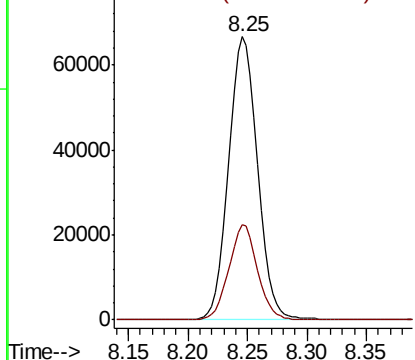
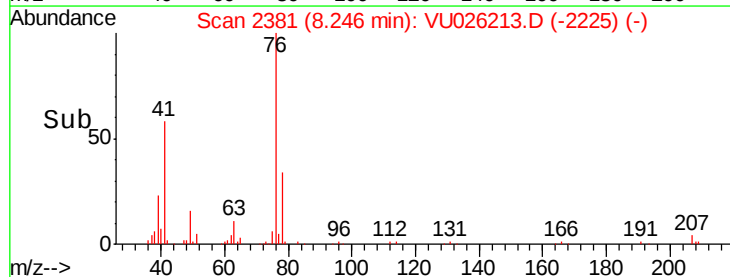
#53

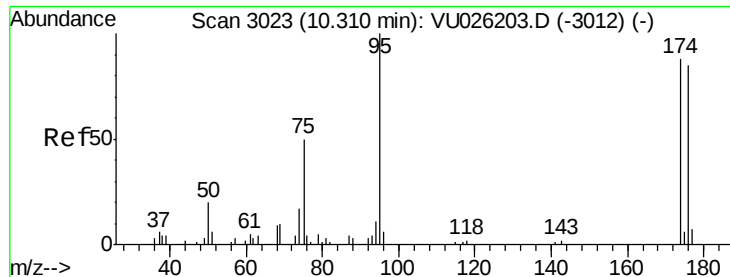
1,3-Dichloropropane
 Concen: 9.84 ug/l
 RT: 8.25 min Scan# 2381
 Delta R.T. 0.00 min
 Lab File: VU026213.D
 Acq: 20 Aug 2018 17:10

Tgt Ion	76	Resp	112525
Ion Ratio	Lower	Upper	
76	100		
78	33.0	25.7	38.5



Abundance Ion 76.00 (75.70 to 76.70): VU0
 Ion 78.00 (77.70 to 78.70): VU0

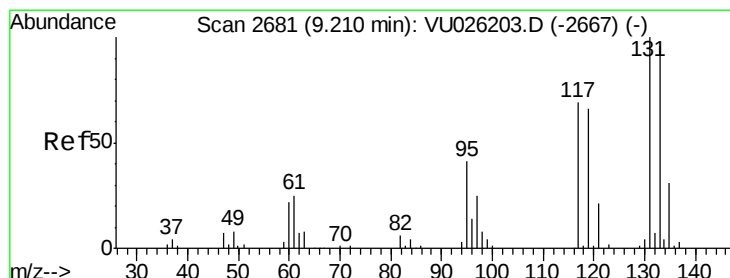
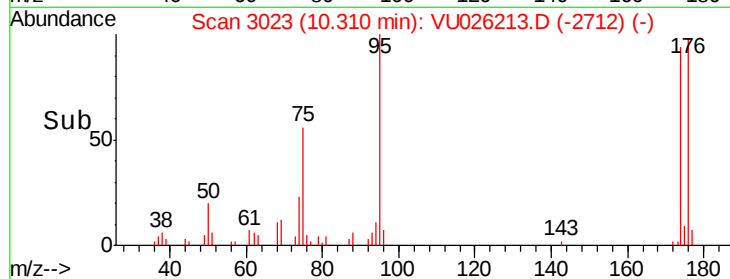
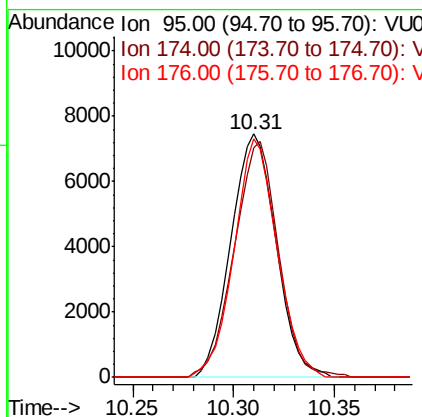
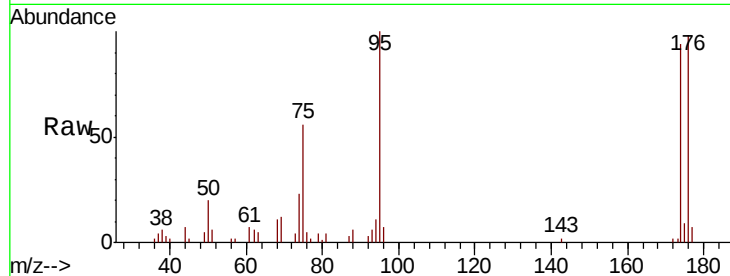




#57
 4-Bromofluorobenzene
 Concen: N.D. ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. 0.00 min
 Lab File: VU026213.D
 Acq: 20 Aug 2018 17:10

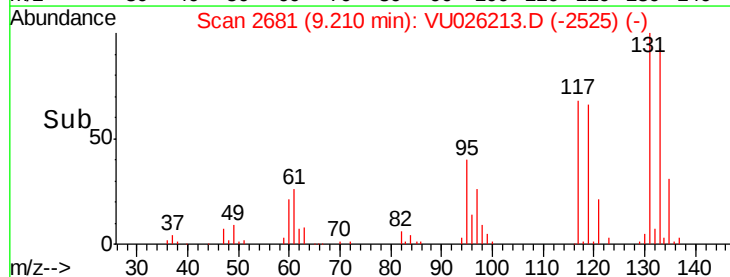
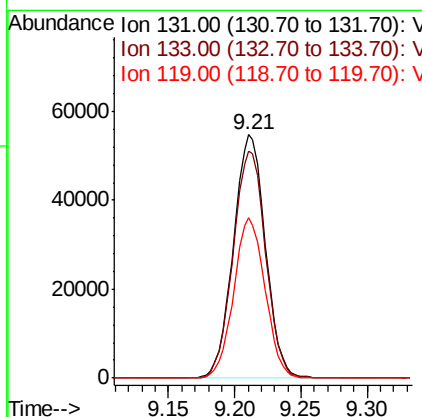
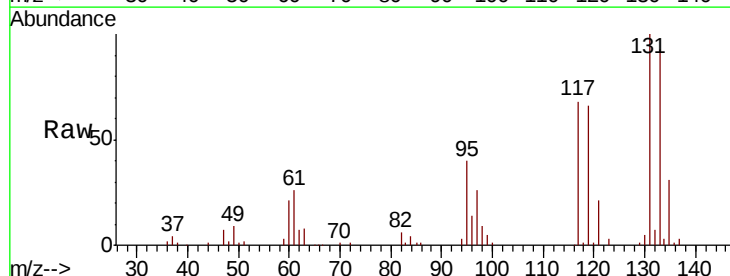
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WS

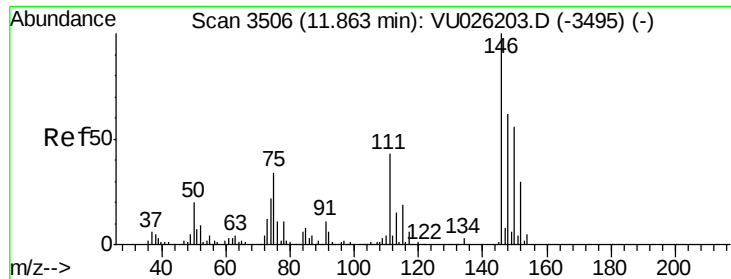
Tot Ion: 95 Resp: 11709
 Ion Ratio Lower Upper
 95 100
 174 94.9 65.6 98.4
 176 93.5 62.0 93.0#



#60
 1,1,1,2-Tetrachloroethane
 Concen: 9.43 ug/l
 RT: 9.21 min Scan# 2681
 Delta R.T. 0.00 min
 Lab File: VU026213.D
 Acq: 20 Aug 2018 17:10

Tgt Ion: 131 Resp: 91752
 Ion Ratio Lower Upper
 131 100
 133 94.9 75.8 113.8
 119 64.5 53.0 79.6





#68

1,2-Dichlorobenzene-d4

Concen: N.D. ug/l

RT: 11.86 min Scan# 3506

Delta R.T. 0.00 min

Lab File: VU026213.D

Acq: 20 Aug 2018 17:10

Instrument :

MSVOA_U

ClientSampleId :

PT-UNRVOA-WS

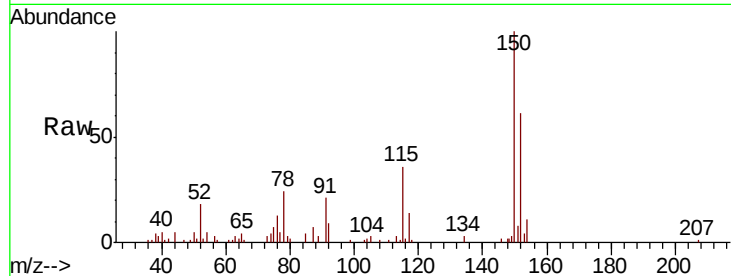
Tot Ion:152 Resp: 13654

Ion Ratio Lower Upper

152 100

115 63.0 0.0 118.8

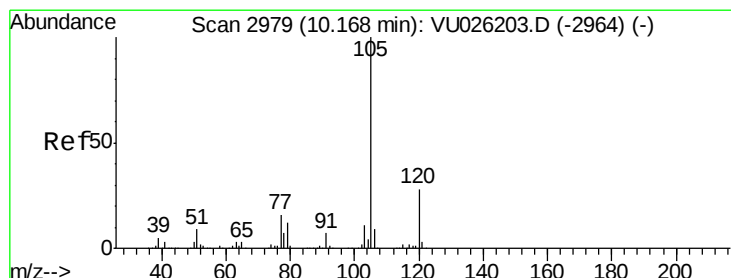
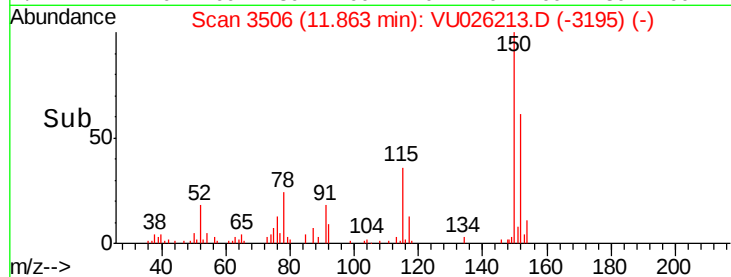
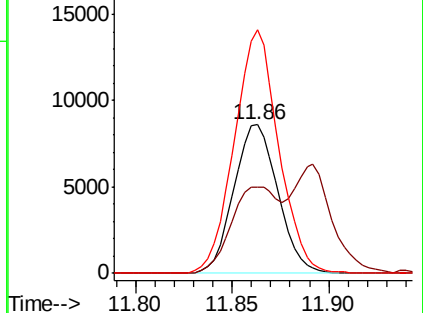
150 164.4 0.0 0.0#



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



#69

Isopropylbenzene

Concen: 9.63 ug/l

RT: 10.17 min Scan# 2979

Delta R.T. 0.00 min

Lab File: VU026213.D

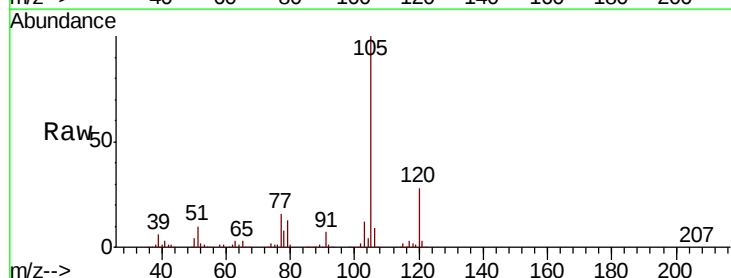
Acq: 20 Aug 2018 17:10

Tgt Ion:105 Resp: 375213

Ion Ratio Lower Upper

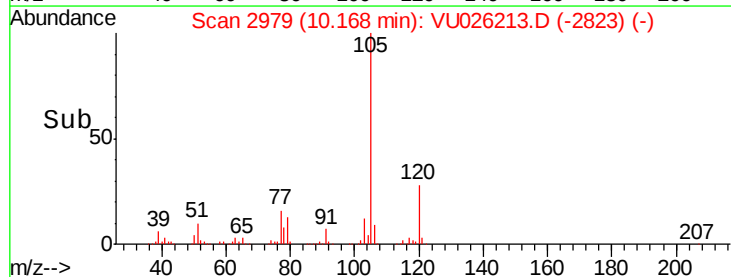
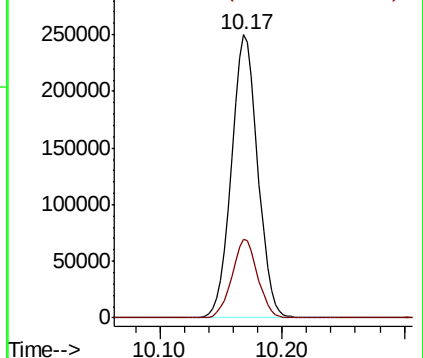
105 100

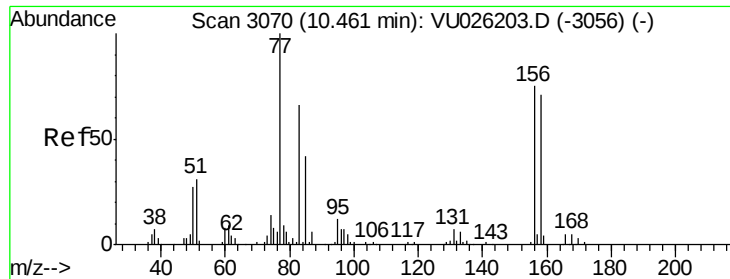
120 27.2 13.1 39.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#70

1,1,2,2-Tetrachloroethane

Concen: 16.94 ug/l

RT: 10.46 min Scan# 3070

Delta R.T. 0.00 min

Lab File: VU026213.D

Acq: 20 Aug 2018 17:10

Instrument :

MSVOA_U

ClientSampleId :

PT-UNRVOA-WS

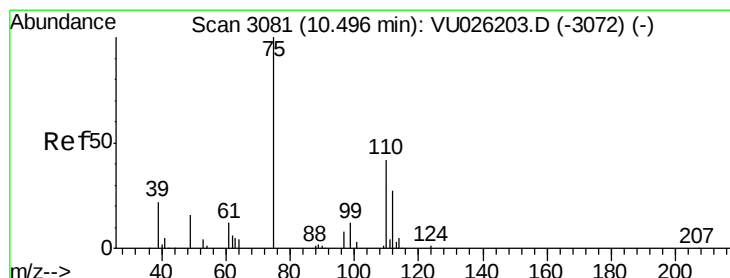
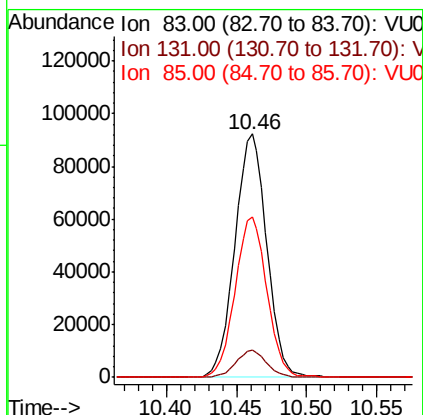
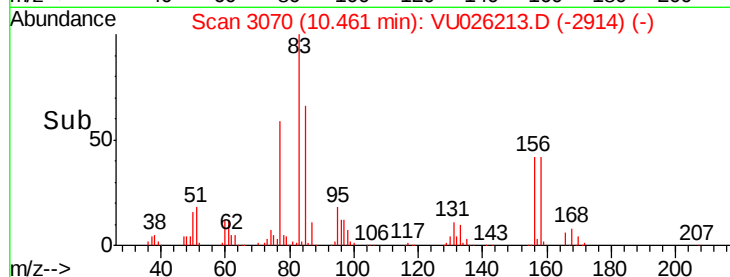
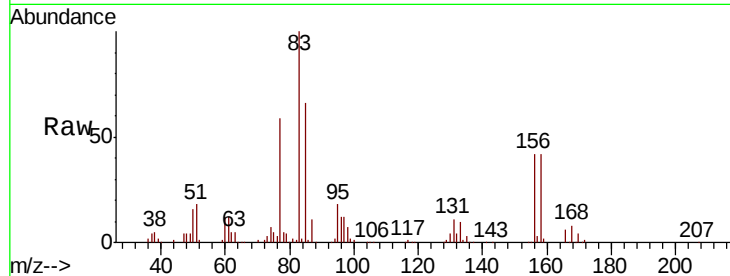
Tot Ion: 83 Resp: 146304

Ion Ratio Lower Upper

83 100

131 10.7 7.9 11.9

85 65.7 51.8 77.6



#71

1,2,3-Trichloropropane

Concen: 2.77 ug/l

RT: 10.50 min Scan# 3081

Delta R.T. 0.00 min

Lab File: VU026213.D

Acq: 20 Aug 2018 17:10

Tgt Ion: 75 Resp: 17131

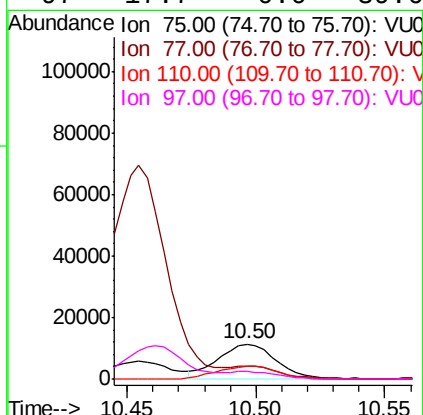
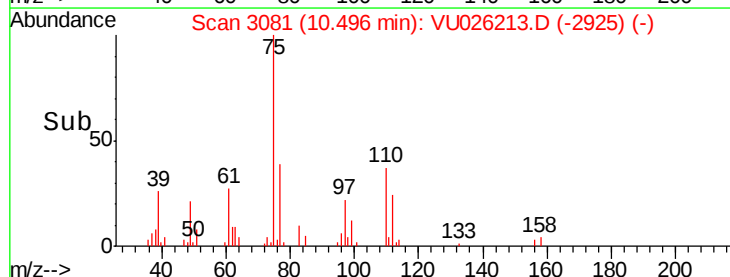
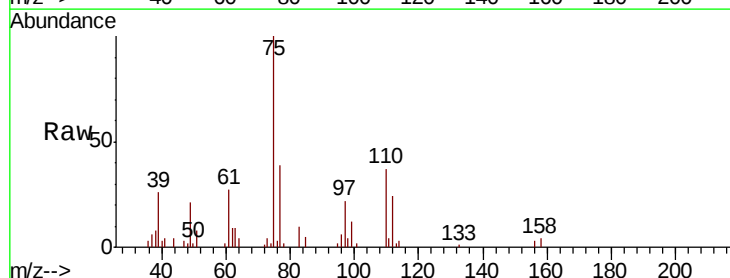
Ion Ratio Lower Upper

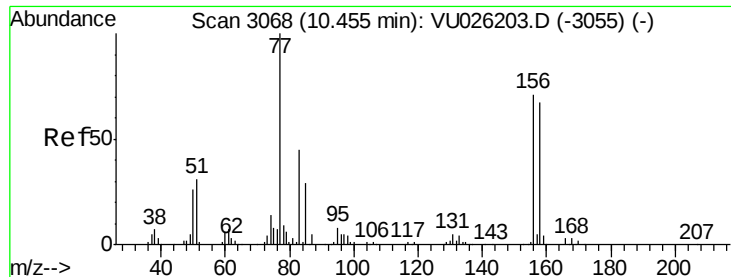
75 100

77 0.0 0.0 0.0

110 40.1 0.0 74.0

97 17.7 0.0 39.6





#72

Bromobenzene

Concen: 6.95 ug/l

RT: 10.45 min Scan# 3068

Delta R.T. 0.00 min

Lab File: VU026213.D

Acq: 20 Aug 2018 17:10

Instrument :

MSVOA_U

ClientSampleId :

PT-UNRVOA-WS

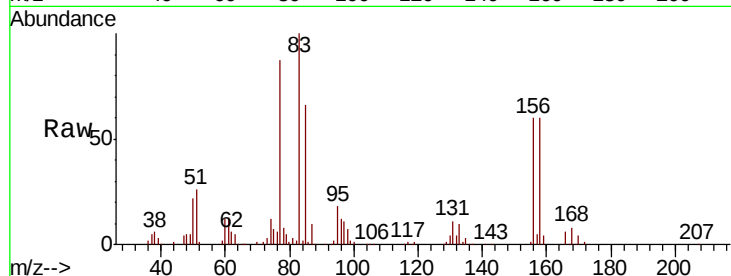
Tot Ion:156 Resp: 75728

Ion Ratio Lower Upper

156 100

77 143.8 0.0 309.8

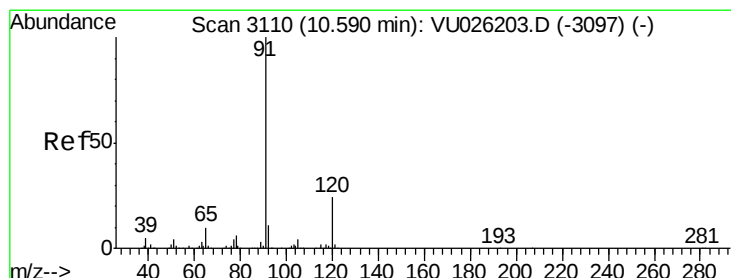
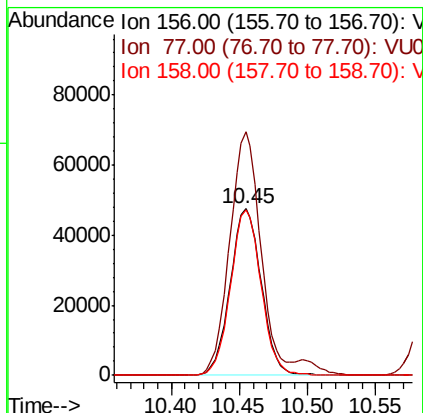
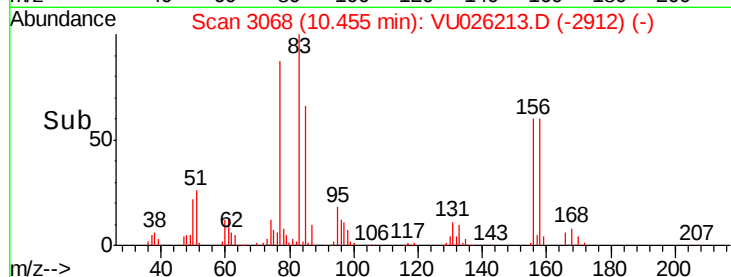
158 97.2 0.0 193.0



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VU0

Ion 158.00 (157.70 to 158.70): V



#73

n-propylbenzene

Concen: 15.82 ug/l

RT: 10.59 min Scan# 3110

Delta R.T. 0.00 min

Lab File: VU026213.D

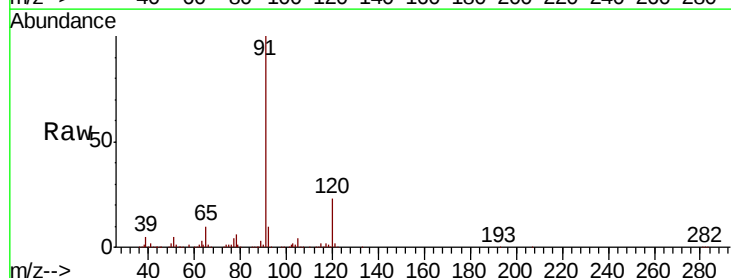
Acq: 20 Aug 2018 17:10

Tgt Ion:120 Resp: 180222

Ion Ratio Lower Upper

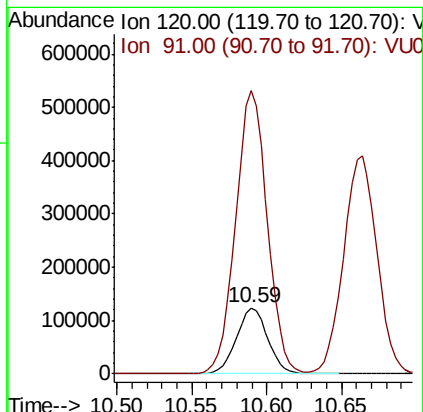
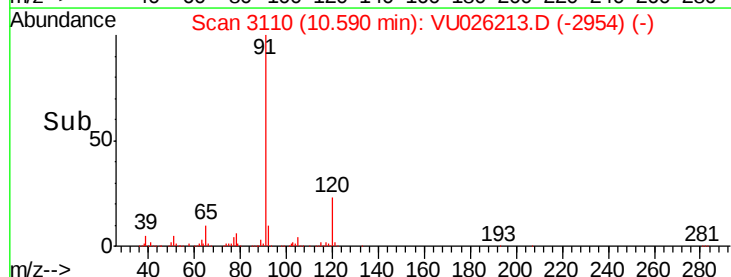
120 100

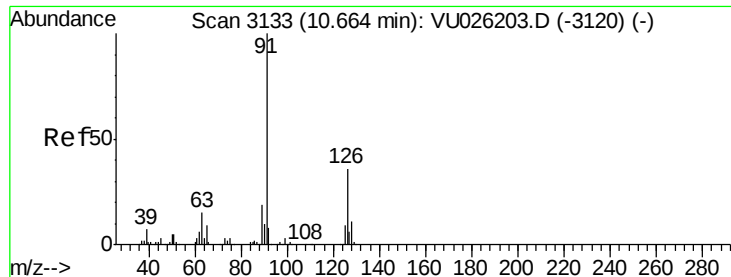
91 432.7 352.2 528.4



Abundance Ion 120.00 (119.70 to 120.70): V

Ion 91.00 (90.70 to 91.70): VU0





#74

2-Chlorotoluene

Concen: 21.49 ug/l

RT: 10.66 min Scan# 3133

Delta R.T. 0.00 min

Lab File: VU026213.D

Acq: 20 Aug 2018 17:10

Instrument :

MSVOA_U

ClientSampleId :

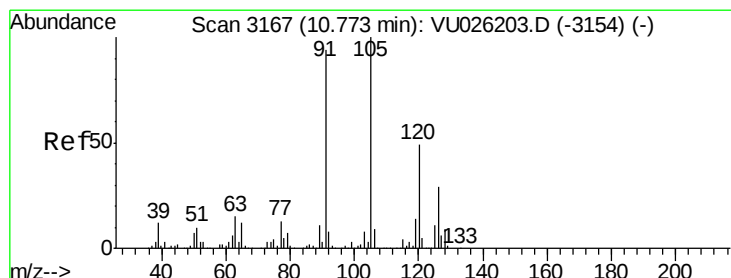
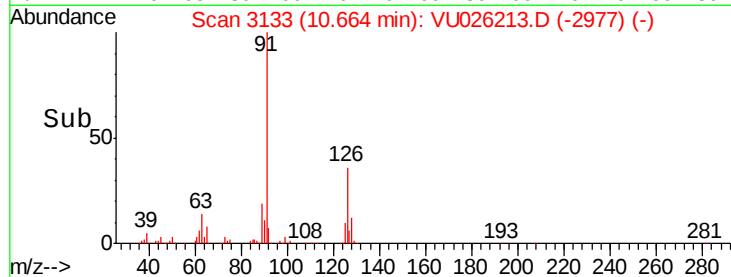
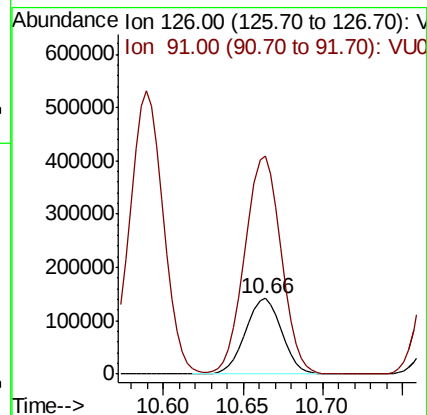
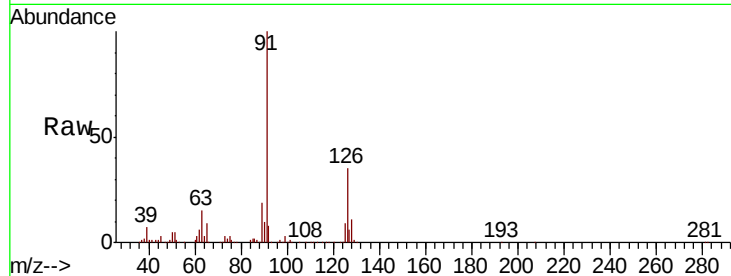
PT-UNRVOA-WS

Tot Ion:126 Resp: 220854

Ion Ratio Lower Upper

126 100

91 286.3 0.0 613.0



#75

1,3,5-Trimethylbenzene

Concen: 26.09 ug/l

RT: 10.77 min Scan# 3167

Delta R.T. 0.00 min

Lab File: VU026213.D

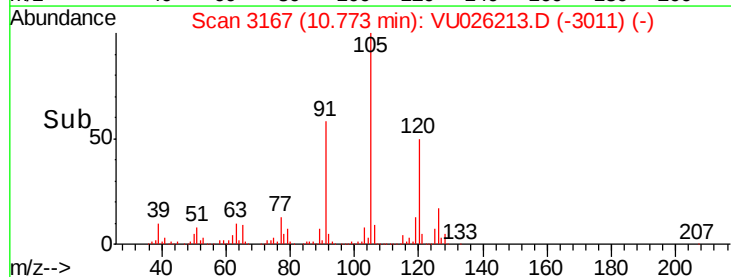
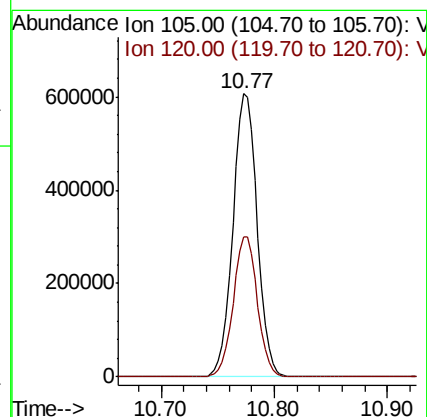
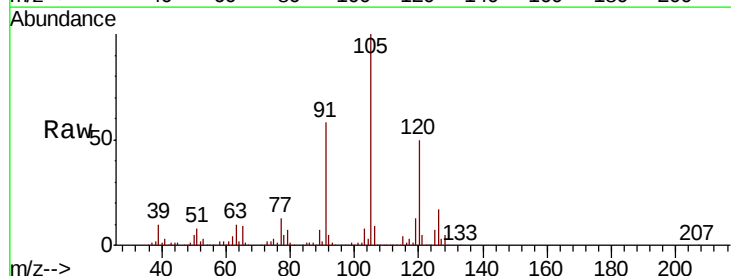
Acq: 20 Aug 2018 17:10

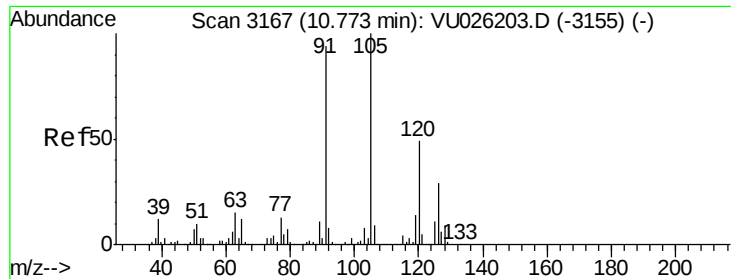
Tgt Ion:105 Resp: 903142

Ion Ratio Lower Upper

105 100

120 49.3 39.0 58.6





#76

4-Chlorotoluene

Concen: 14.53 ug/l

RT: 10.77 min Scan# 3167

Delta R.T. 0.00 min

Lab File: VU026213.D

Acq: 20 Aug 2018 17:10

Instrument :

MSVOA_U

ClientSampleId :

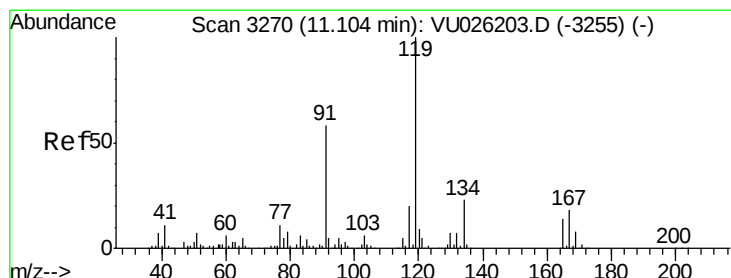
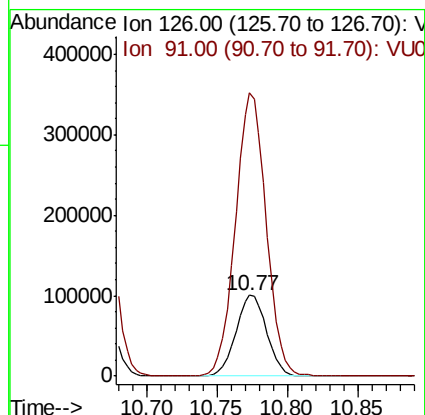
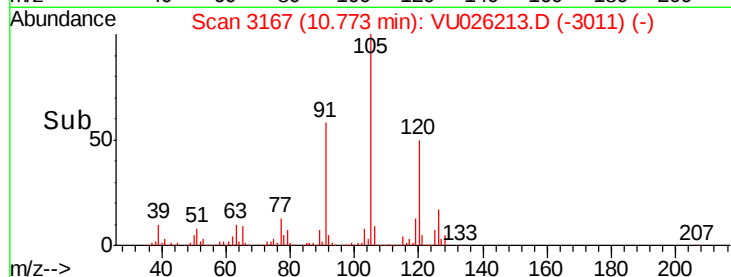
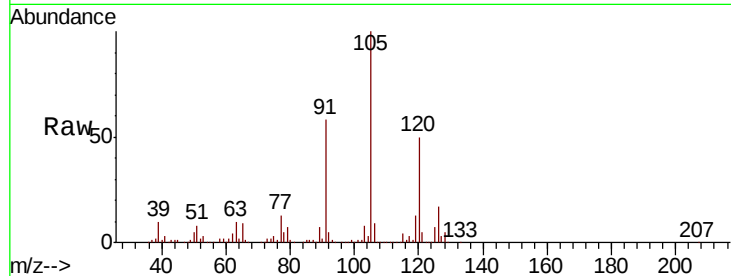
PT-UNRVOA-WS

Tot Ion:126 Resp: 153471

Ion Ratio Lower Upper

126 100

91 347.7 0.0 667.2



#77

tert-Butylbenzene

Concen: 3.93 ug/l

RT: 11.10 min Scan# 3269

Delta R.T. -0.00 min

Lab File: VU026213.D

Acq: 20 Aug 2018 17:10

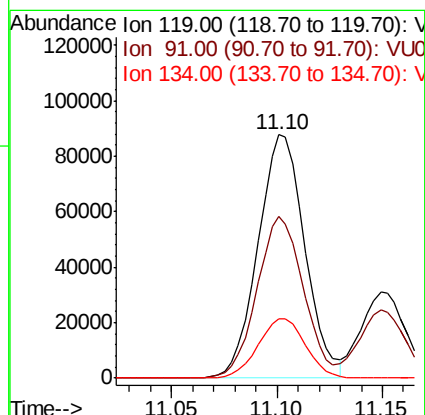
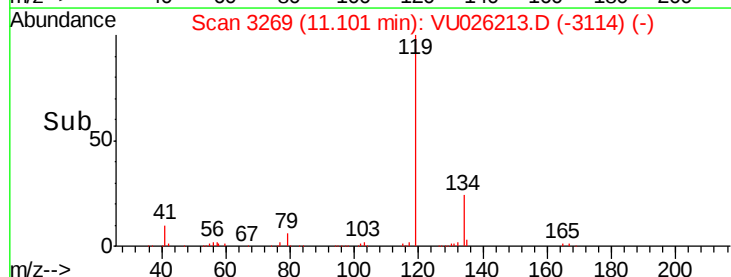
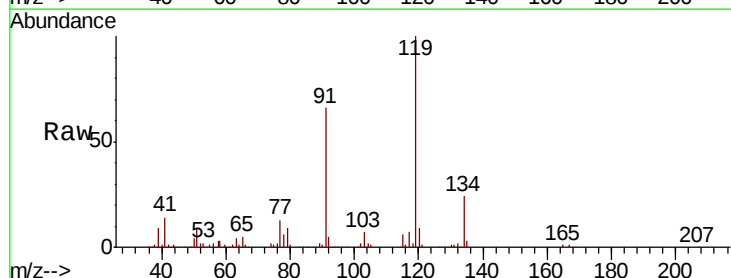
Tgt Ion:119 Resp: 135405

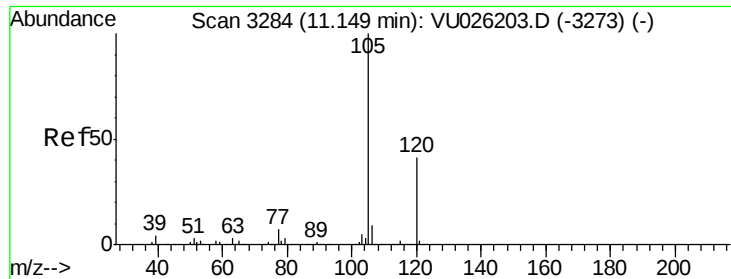
Ion Ratio Lower Upper

119 100

91 65.9 29.6 88.8

134 24.7 19.1 28.7





#78

1,2,4-Trimethylbenzene

Concen: 9.79 ug/l

RT: 11.15 min Scan# 3284

Delta R.T. 0.00 min

Lab File: VU026213.D

Acq: 20 Aug 2018 17:10

Instrument :

MSVOA_U

ClientSampleId :

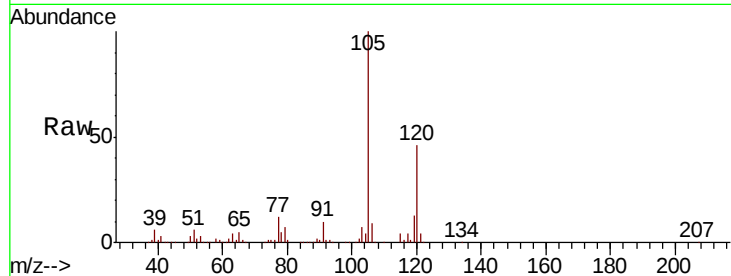
PT-UNRVOA-WS

Tot Ion:105 Resp: 350820

Ion Ratio Lower Upper

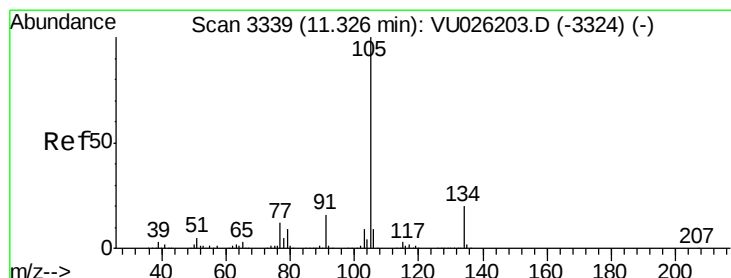
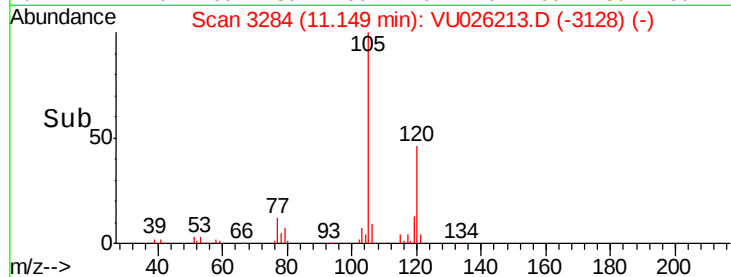
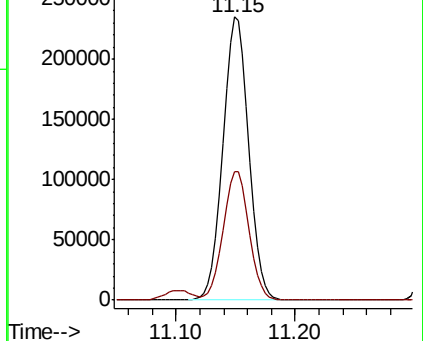
105 100

120 45.8 23.1 69.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#79

sec-Butylbenzene

Concen: 8.96 ug/l

RT: 11.33 min Scan# 3339

Delta R.T. 0.00 min

Lab File: VU026213.D

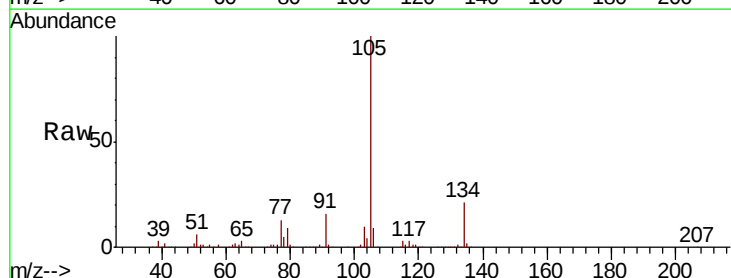
Acq: 20 Aug 2018 17:10

Tgt Ion:105 Resp: 404636

Ion Ratio Lower Upper

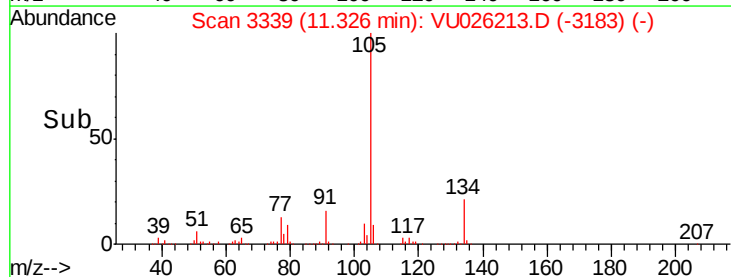
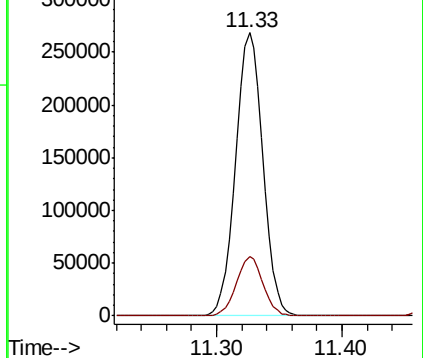
105 100

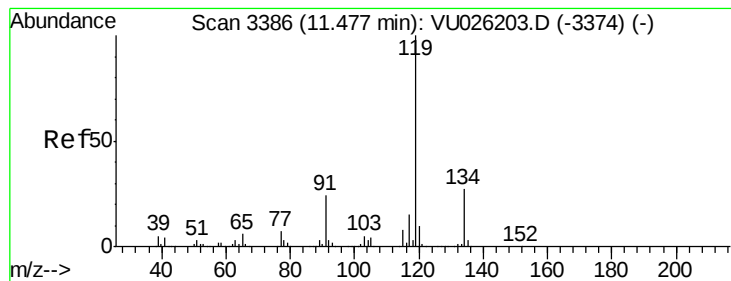
134 20.5 15.6 23.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V





#81

p-Isopropyltoluene

Concen: 3.51 ug/l

RT: 11.48 min Scan# 3386

Delta R.T. 0.00 min

Lab File: VU026213.D

Acq: 20 Aug 2018 17:10

Instrument :

MSVOA_U

ClientSampleId :

PT-UNRVOA-WS

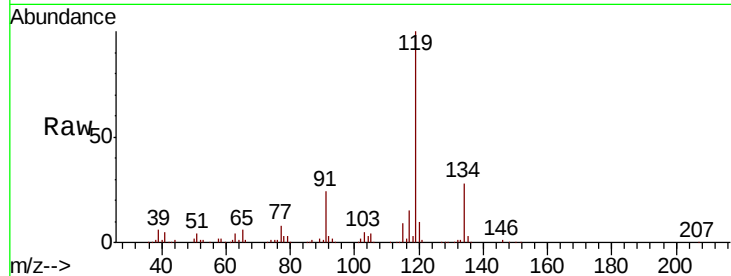
Tot Ion:119 Resp: 134193

Ion Ratio Lower Upper

119 100

134 27.7 20.9 31.3

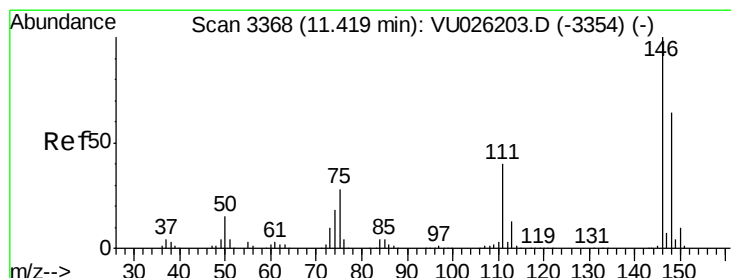
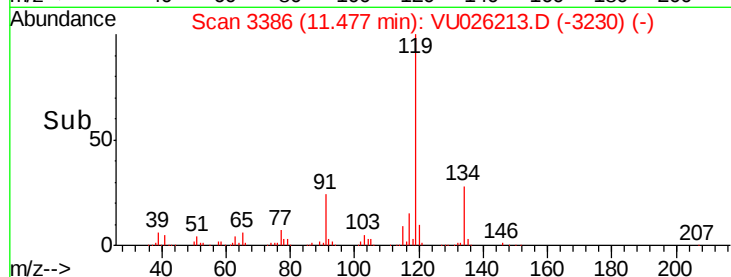
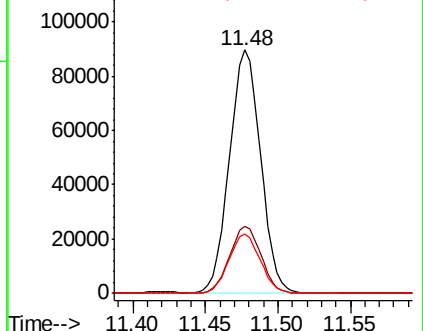
91 24.6 18.2 27.2



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#82

1,3-Dichlorobenzene

Concen: 21.70 ug/l

RT: 11.42 min Scan# 3368

Delta R.T. 0.00 min

Lab File: VU026213.D

Acq: 20 Aug 2018 17:10

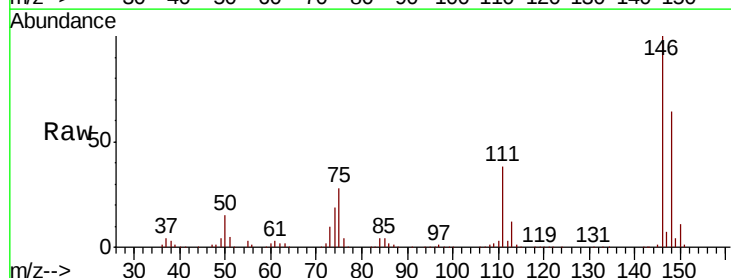
Tgt Ion:146 Resp: 498241

Ion Ratio Lower Upper

146 100

111 39.4 31.8 47.6

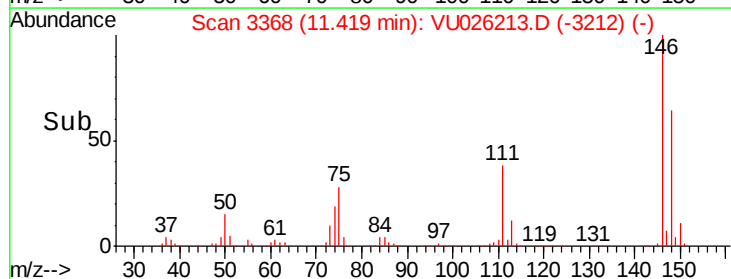
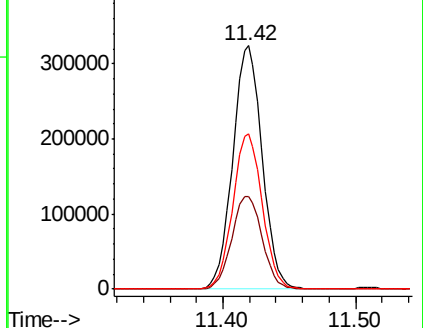
148 63.7 51.0 76.4

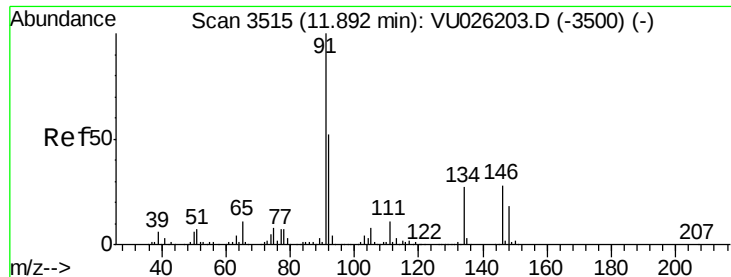


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

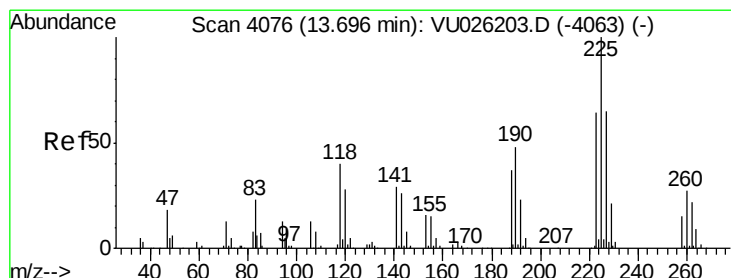
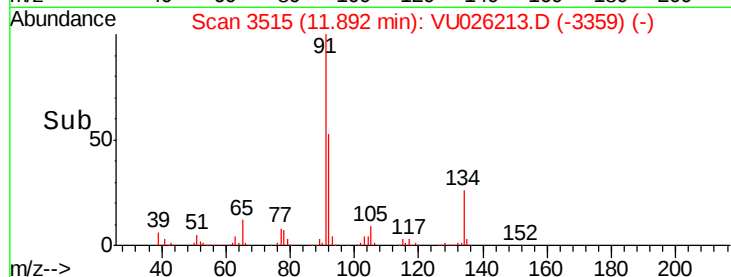
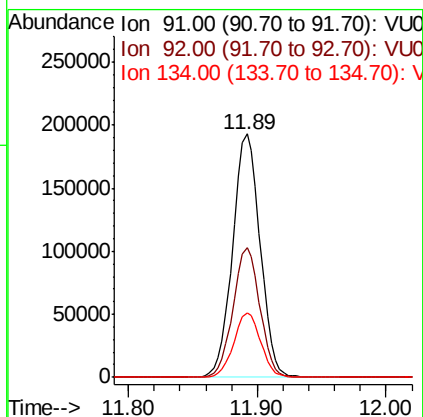
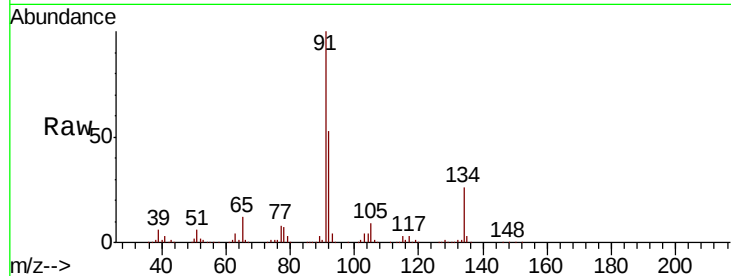




#84
n-Butylbenzene
Concen: 7.71 ug/l
RT: 11.89 min Scan# 3515
Delta R.T. 0.00 min
Lab File: VU026213.D
Acq: 20 Aug 2018 17:10

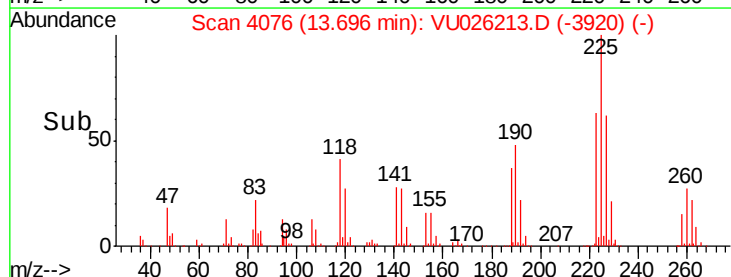
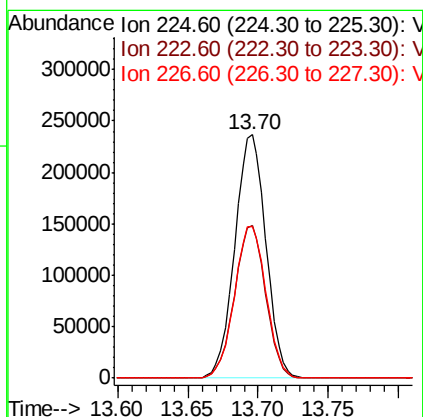
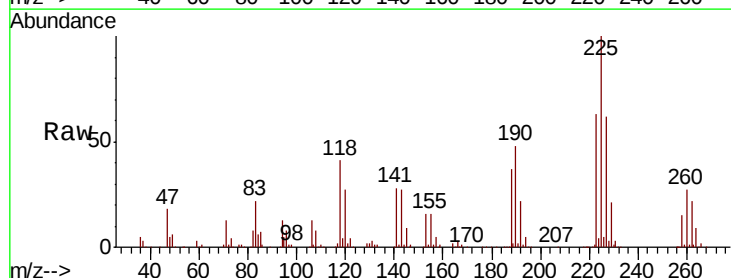
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

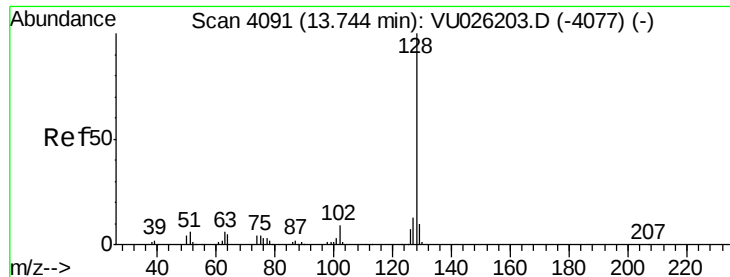
Tot Ion: 91 Resp: 285241
Ion Ratio Lower Upper
91 100
92 52.0 42.2 63.2
134 25.8 20.3 30.5



#88
Hexachlorobutadiene
Concen: 40.25 ug/l
RT: 13.70 min Scan# 4076
Delta R.T. 0.00 min
Lab File: VU026213.D
Acq: 20 Aug 2018 17:10

Tgt Ion: 225 Resp: 365136
Ion Ratio Lower Upper
225 100
223 62.9 50.6 75.8
227 63.6 51.8 77.6

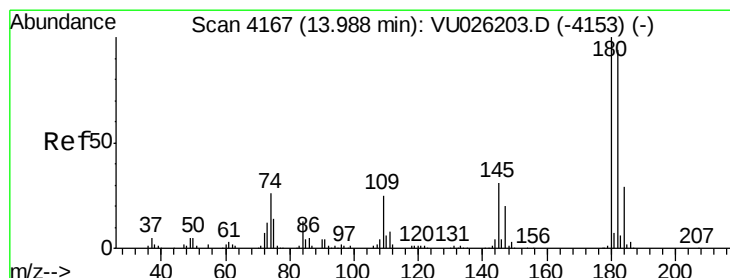
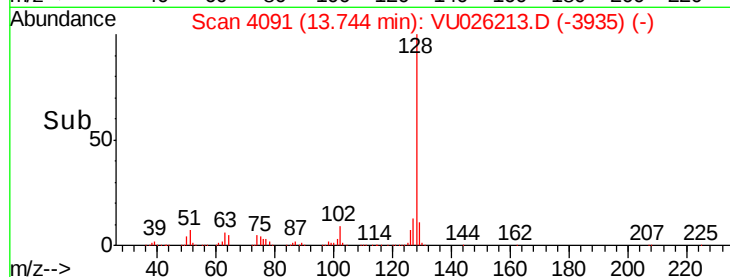
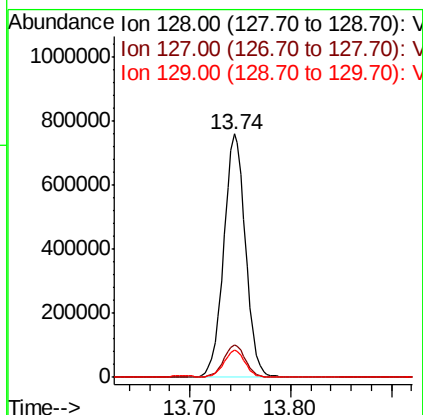
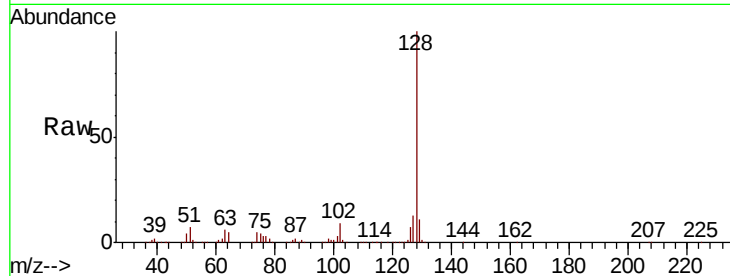




#89
Naphthalene
Concen: 49.05 ug/l
RT: 13.74 min Scan# 4091
Delta R.T. 0.00 min
Lab File: VU026213.D
Acq: 20 Aug 2018 17:10

Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

Tot Ion:128 Resp: 1145710
Ion Ratio Lower Upper
128 100
127 13.2 10.5 15.7
129 10.8 8.7 13.1



#90
1,2,3-Trichlorobenzene
Concen: 41.47 ug/l
RT: 13.99 min Scan# 4167
Delta R.T. 0.00 min
Lab File: VU026213.D
Acq: 20 Aug 2018 17:10

Tgt Ion:180 Resp: 579217
Ion Ratio Lower Upper
180 100
182 94.6 76.8 115.2
145 31.6 24.6 36.8

