

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU082018\
 Data File : VU026211.D
 Acq On : 20 Aug 2018 16:22
 Operator : MD/SY
 Sample : J4045-07
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WS

Quant Time: Aug 21 08:36:15 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

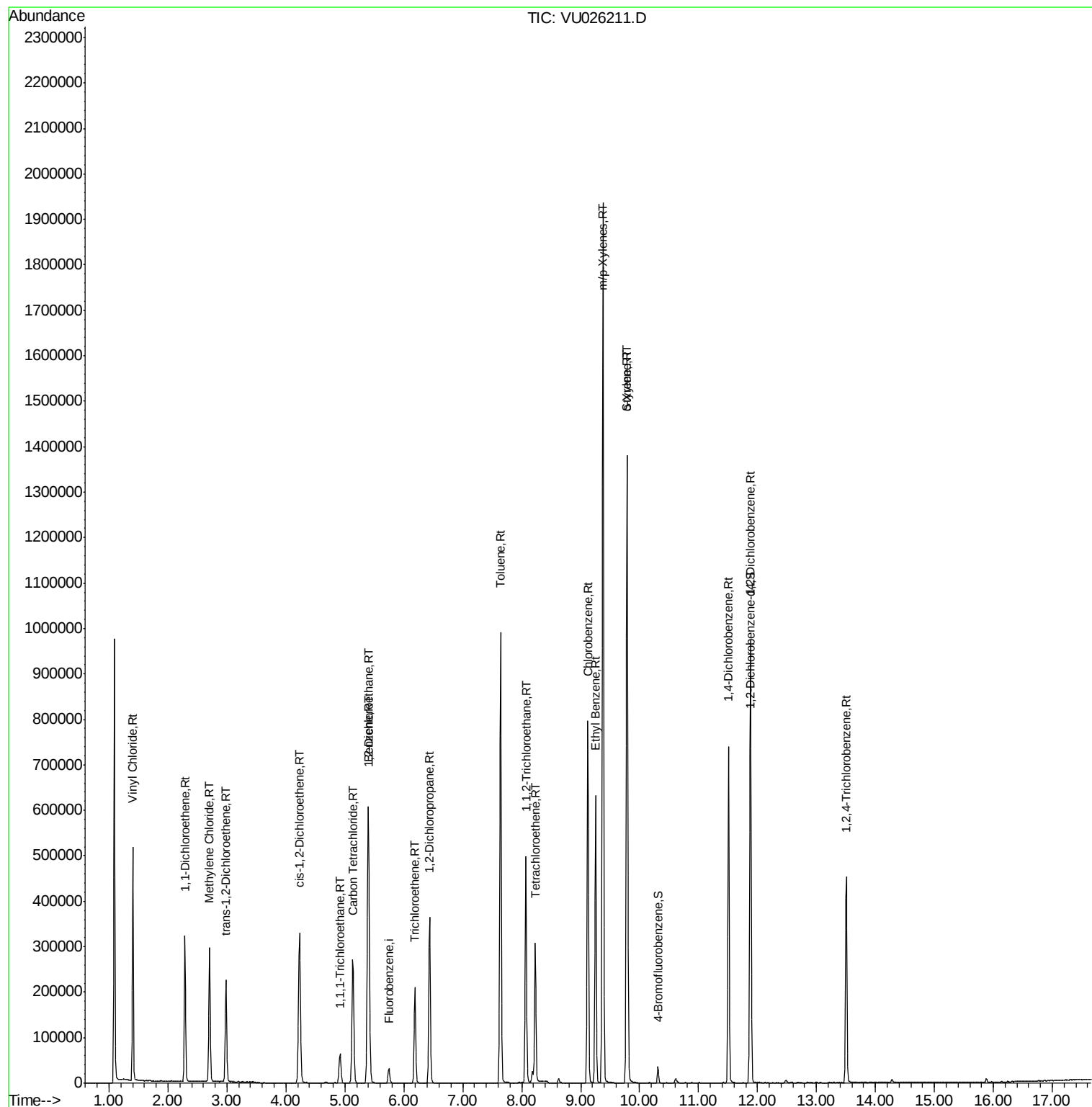
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	5.75	96	31476	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.31	95	11235	0.99	ug/l	0.00
Spiked Amount 1.000			Recovery	=	99.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	14043	1.07	ug/l	0.00
Spiked Amount 1.000			Recovery	=	107.00%	
Target Compounds						Ovalue
4) Vinyl Chloride	1.40	62	305946	29.28	ug/l	99
9) 1,1-Dichloroethene	2.29	96	99580	13.62	ug/l	97
15) Methylene Chloride	2.70	84	121942	16.21	ug/l	97
16) trans-1,2-Dichloroethene	2.98	96	84745	10.02	ug/l	94
22) cis-1,2-Dichloroethene	4.23	96	184675	17.99	ug/l	81
28) 1,1,1-Trichloroethane	4.92	97	51669	3.25	ug/l	96
30) Carbon Tetrachloride	5.14	117	199427	13.29	ug/l	98
35) Benzene	5.39	78	466313	12.86	ug/l	99
36) 1,2-Dichloroethane	5.41	62	220633	19.62	ug/l	99
37) Trichloroethene	6.19	130	73516	7.20	ug/l	98
38) 1,2-Dichloropropane	6.44	63	140334	14.94	ug/l	98
49) Toluene	7.64	92	395253	19.09	ug/l	96
52) 1,1,2-Trichloroethane	8.07	97	151853	22.43	ug/l	96
58) Tetrachloroethene	8.23	164	68599	7.11	ug/l	96
59) Chlorobenzene	9.12	112	417626	17.41	ug/l	99
63) Ethyl Benzene	9.25	91	418302	10.99	ug/l	100
64) m/p-Xylenes	9.38	106	540476	35.57	ug/l	97
65) o-Xylene	9.78	106	255995	17.67	ug/l	96
66) Styrene	9.80	104	338924	13.67	ug/l	98
83) 1,4-Dichlorobenzene	11.51	146	298808	13.26	ug/l	100
85) 1,2-Dichlorobenzene	11.88	146	393053	18.96	ug/l	99
87) 1,2,4-Trichlorobenzene	13.51	180	143571	9.85	ug/l	98
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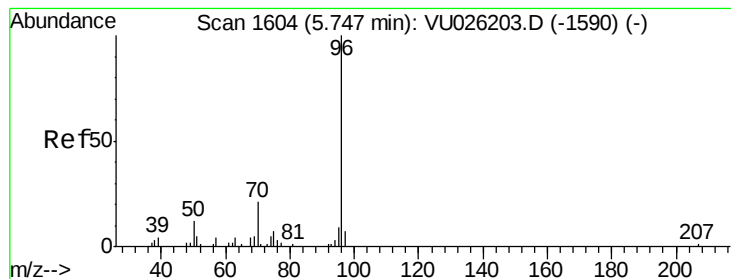
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Mon Aug 20 13:35:41 2018
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#1

Fluorobenzene

Concen: 1.00 ug/l

RT: 5.75 min Scan# 1604

Delta R.T. -0.00 min

Lab File: VU026211.D

Acq: 20 Aug 2018 16:22

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WS

Tot Ion: 96 Resp: 31476

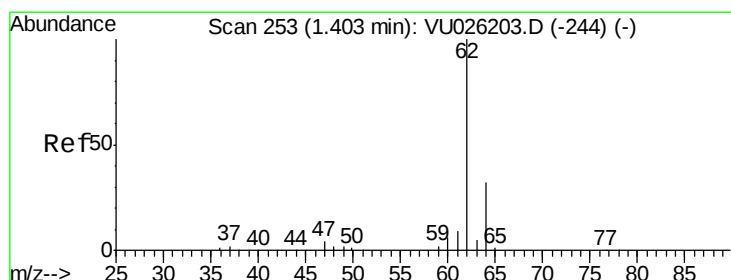
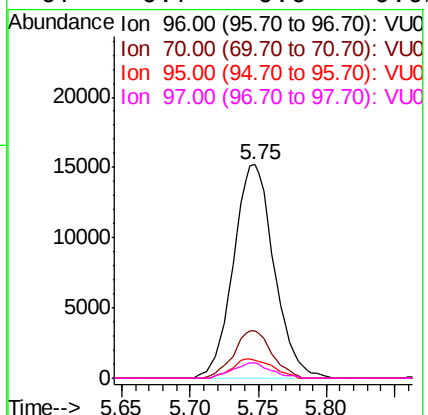
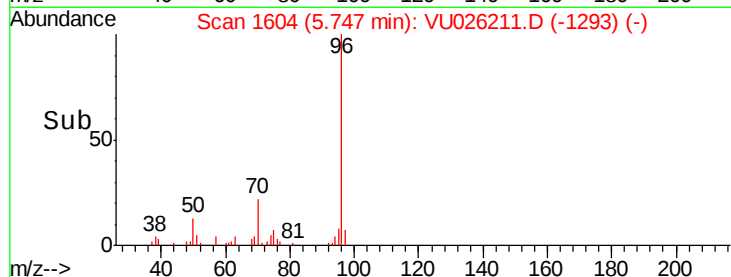
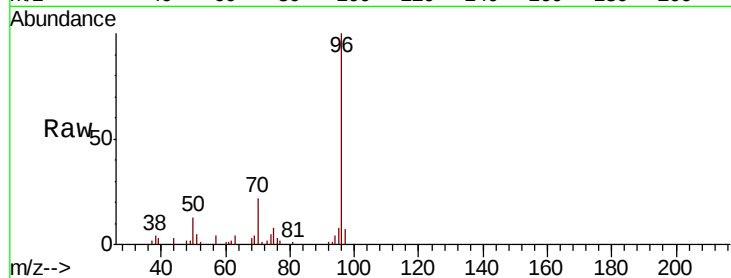
Ion Ratio Lower Upper

96 100

70 20.7 16.2 24.4

95 8.9 6.9 10.3

97 6.7 0.0 0.0#



#4

Vinyl Chloride

Concen: 29.28 ug/l

RT: 1.40 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU026211.D

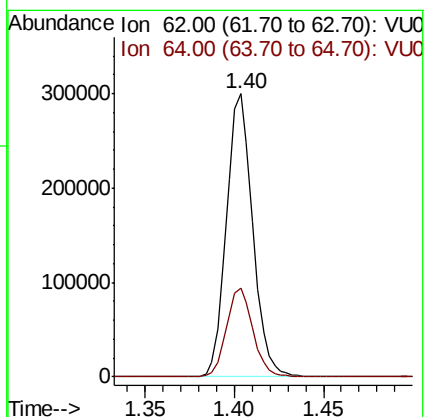
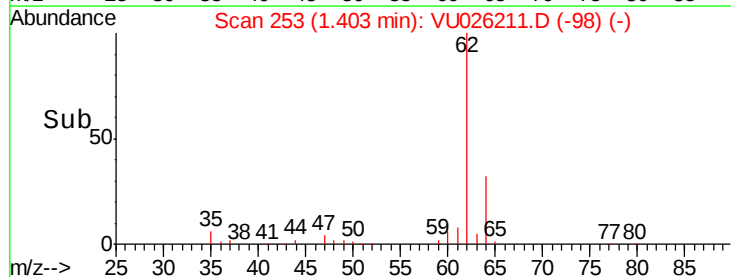
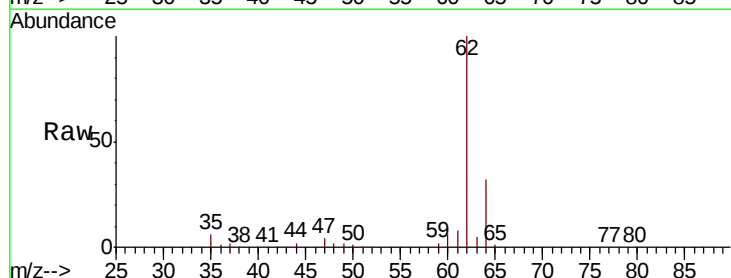
Acq: 20 Aug 2018 16:22

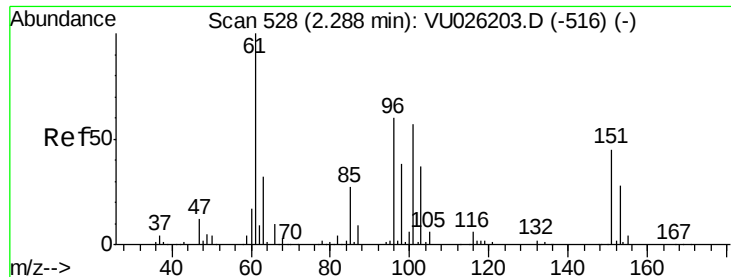
Tgt Ion: 62 Resp: 305946

Ion Ratio Lower Upper

62 100

64 31.5 25.8 38.8





#9

1,1-Dichloroethene

Concen: 13.62 ug/l

RT: 2.29 min Scan# 528

Delta R.T. -0.00 min

Lab File: VU026211.D

Acq: 20 Aug 2018 16:22

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WS

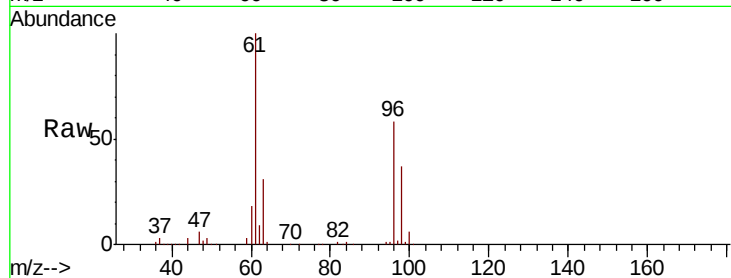
Tot Ion: 96 Resp: 99580

Ion Ratio Lower Upper

96 100

61 171.2 0.0 526.5

98 63.1 0.0 123.4

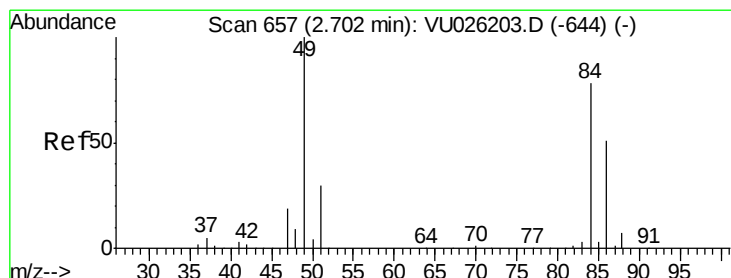
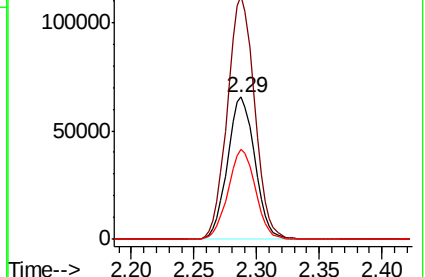
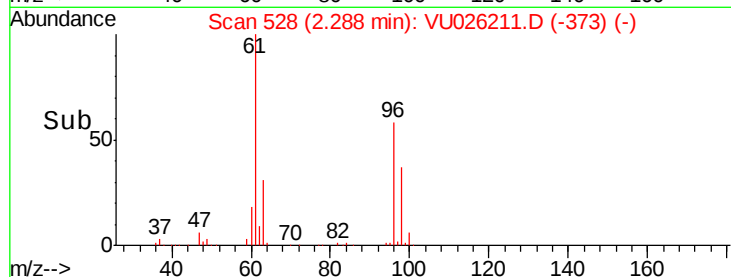


Abundance Ion 96.00 (95.70 to 96.70): VU026211.D (-373) (-)

Ion 61.00 (60.70 to 61.70): VU026211.D (-373) (-)

Ion 98.00 (97.70 to 98.70): VU026211.D (-373) (-)

Time-->



#15

Methylene Chloride

Concen: 16.21 ug/l

RT: 2.70 min Scan# 657

Delta R.T. 0.00 min

Lab File: VU026211.D

Acq: 20 Aug 2018 16:22

Tgt Ion: 84 Resp: 121942

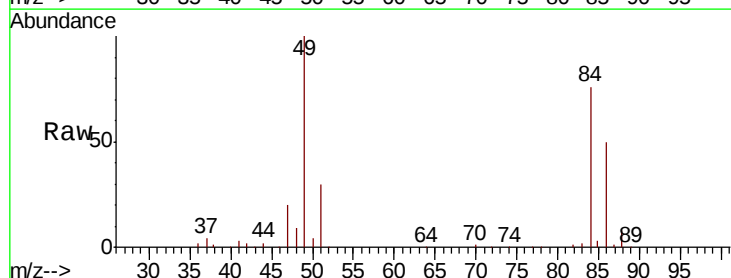
Ion Ratio Lower Upper

84 100

49 131.2 108.7 163.1

51 39.4 0.0 82.4

86 65.0 50.7 76.1



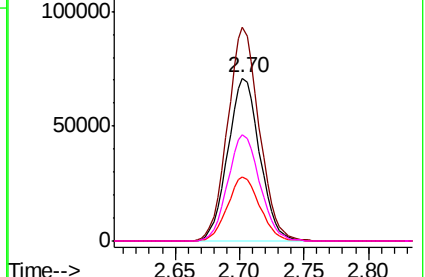
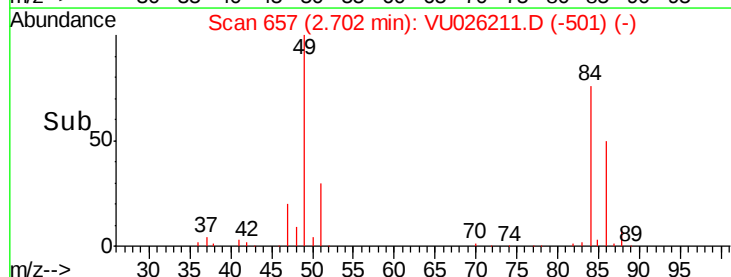
Abundance Ion 84.00 (83.70 to 84.70): VU026211.D (-501) (-)

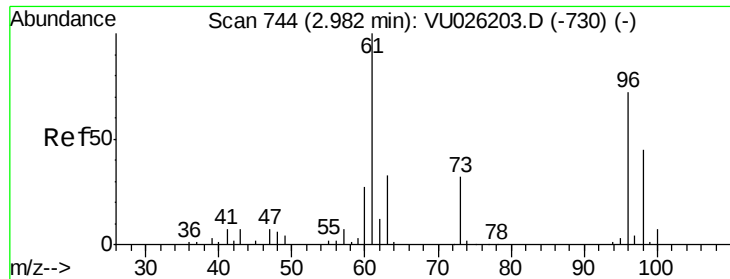
Ion 49.00 (48.70 to 49.70): VU026211.D (-501) (-)

Ion 51.00 (50.70 to 51.70): VU026211.D (-501) (-)

Ion 86.00 (85.70 to 86.70): VU026211.D (-501) (-)

Time-->

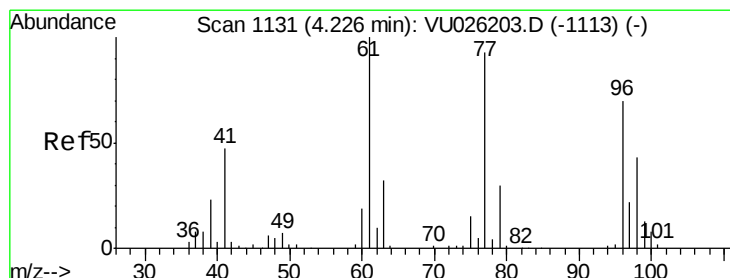
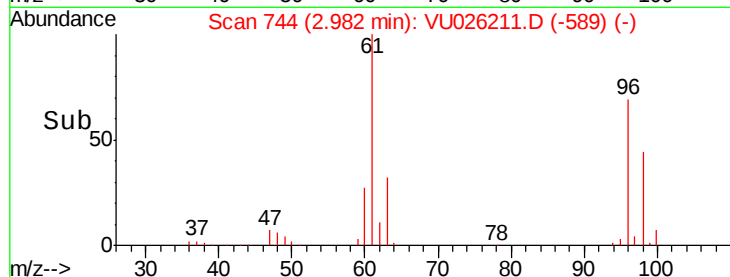
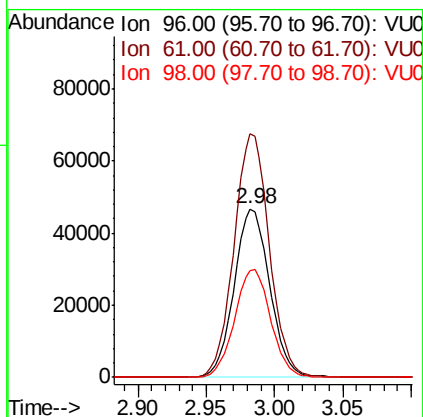
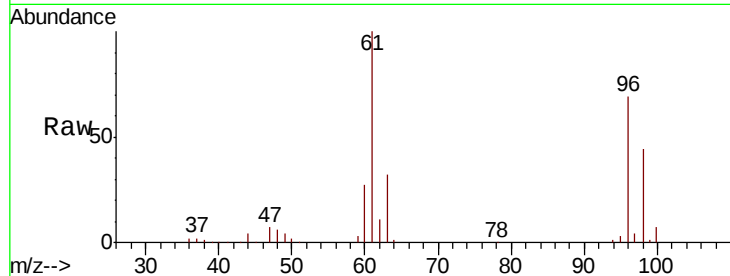




#16
trans-1,2-Dichloroethene
Concen: 10.02 ug/l
RT: 2.98 min Scan# 744
Delta R.T. -0.00 min
Lab File: VU026211.D
Acq: 20 Aug 2018 16:22

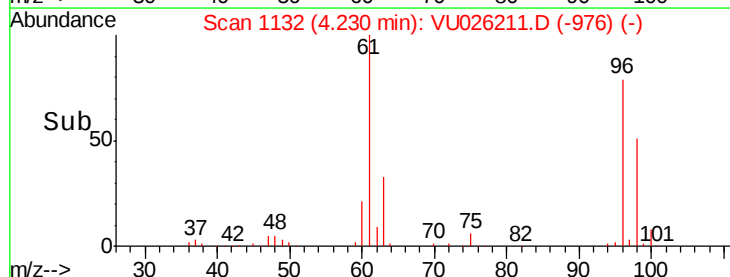
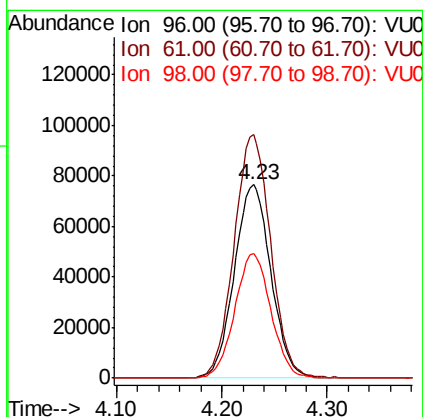
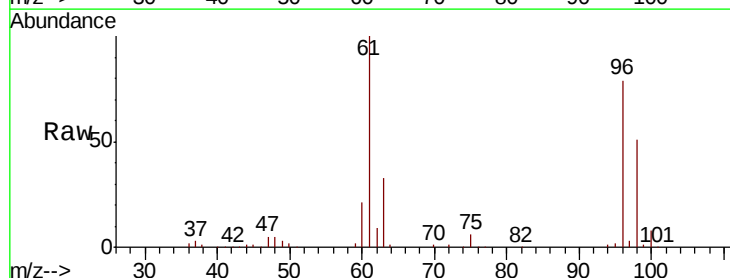
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WS

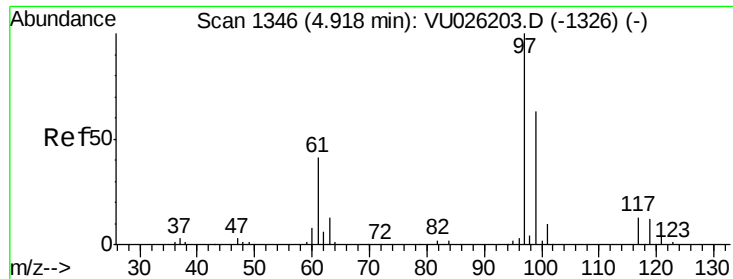
Tot Ion: 96 Resp: 84745
Ion Ratio Lower Upper
96 100
61 144.4 123.9 185.9
98 63.6 50.6 76.0



#22
cis-1,2-Dichloroethene
Concen: 17.99 ug/l
RT: 4.23 min Scan# 1132
Delta R.T. 0.00 min
Lab File: VU026211.D
Acq: 20 Aug 2018 16:22

Tgt Ion: 96 Resp: 184675
Ion Ratio Lower Upper
96 100
61 125.5 0.0 400.5
98 63.8 32.2 96.6

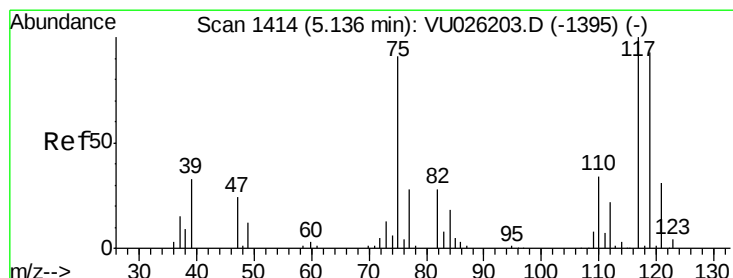
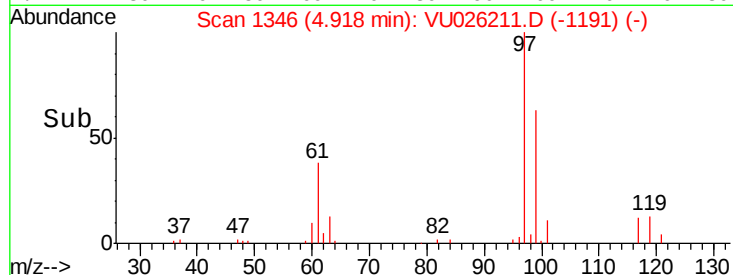
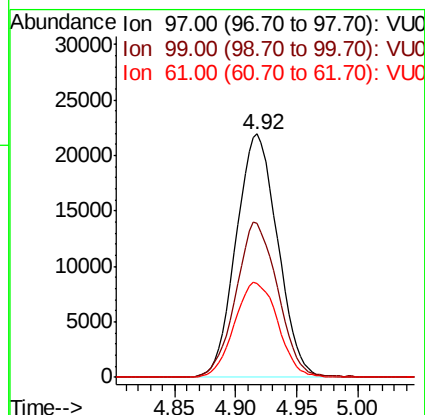
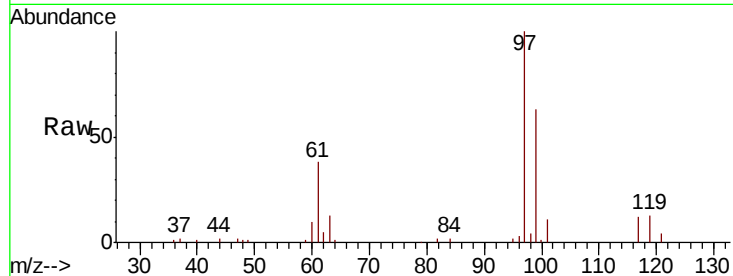




#28
 1,1,1-Trichloroethane
 Concen: 3.25 ug/l
 RT: 4.92 min Scan# 1346
 Delta R.T. -0.00 min
 Lab File: VU026211.D
 Acq: 20 Aug 2018 16:22

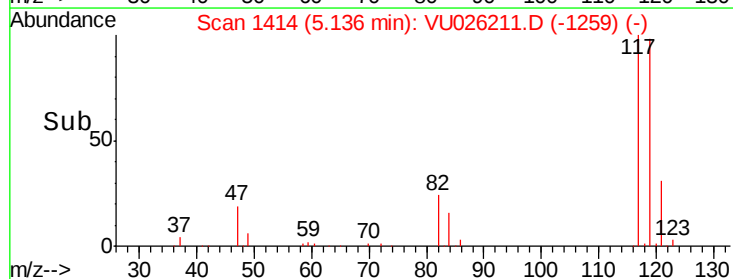
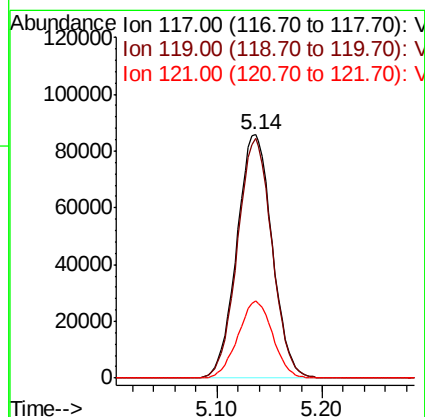
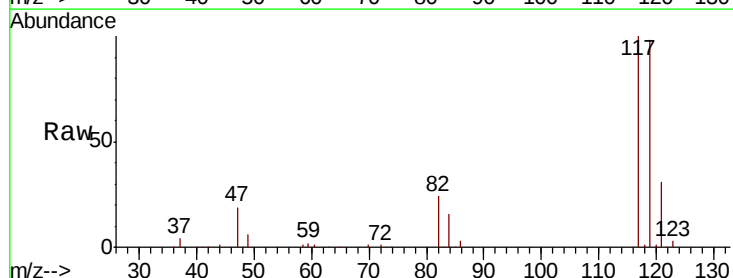
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WS

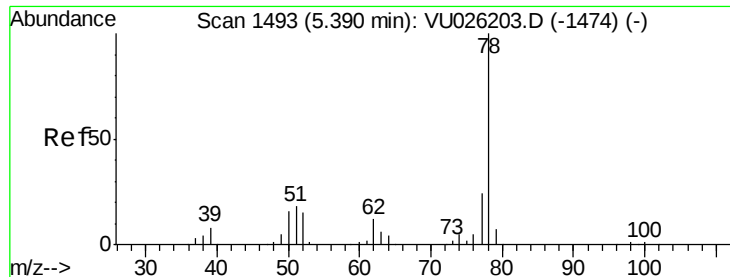
Tot Ion: 97 Resp: 51669
 Ion Ratio Lower Upper
 97 100
 99 64.3 32.3 96.9
 61 40.7 23.2 69.5



#30
 Carbon Tetrachloride
 Concen: 13.29 ug/l
 RT: 5.14 min Scan# 1414
 Delta R.T. -0.00 min
 Lab File: VU026211.D
 Acq: 20 Aug 2018 16:22

Tgt Ion: 117 Resp: 199427
 Ion Ratio Lower Upper
 117 100
 119 98.3 77.3 115.9
 121 31.5 24.5 36.7





#35

Benzene

Concen: 12.86 ug/l

RT: 5.39 min Scan# 1494

Delta R.T. 0.00 min

Lab File: VU026211.D

Acq: 20 Aug 2018 16:22

Instrument :

MSVOA_U

ClientSampleId :

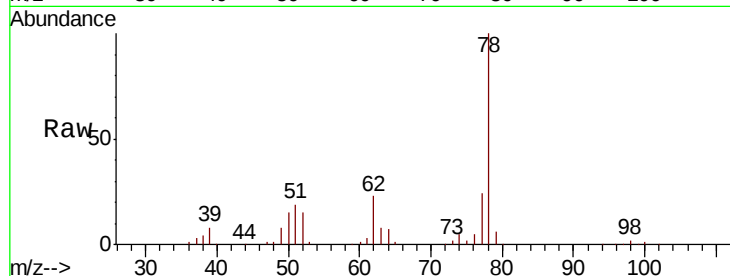
PT-RVOA-WS

Tot Ion: 78 Resp: 466313

Ion Ratio Lower Upper

78 100

77 24.5 19.1 28.7



Abundance Ion 78.10 (77.80 to 78.80): VU0

Ion 77.00 (76.70 to 77.70): VU0

5.39

250000

200000

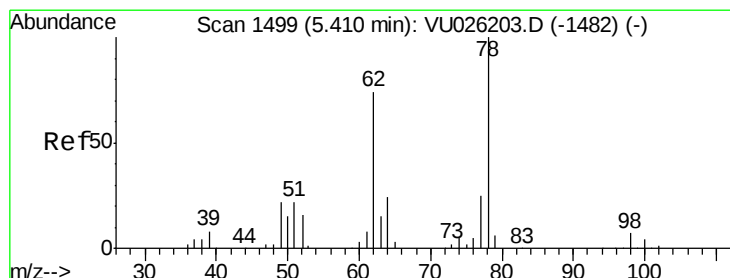
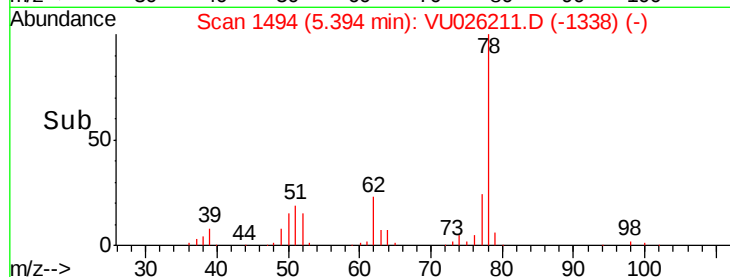
150000

100000

50000

0

Time-->



#36

1,2-Dichloroethane

Concen: 19.62 ug/l

RT: 5.41 min Scan# 1499

Delta R.T. -0.00 min

Lab File: VU026211.D

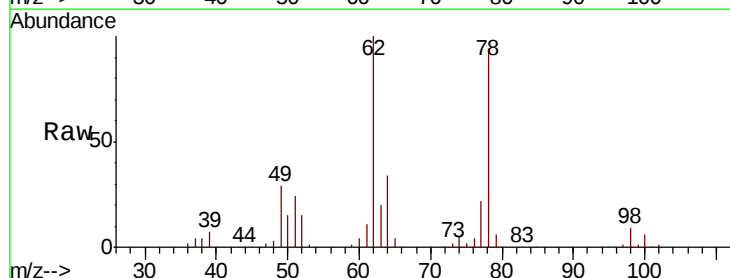
Acq: 20 Aug 2018 16:22

Tgt Ion: 62 Resp: 220633

Ion Ratio Lower Upper

62 100

98 8.8 7.2 10.8



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

5.41

120000

100000

80000

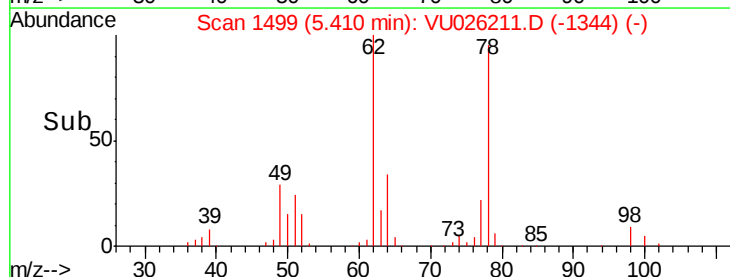
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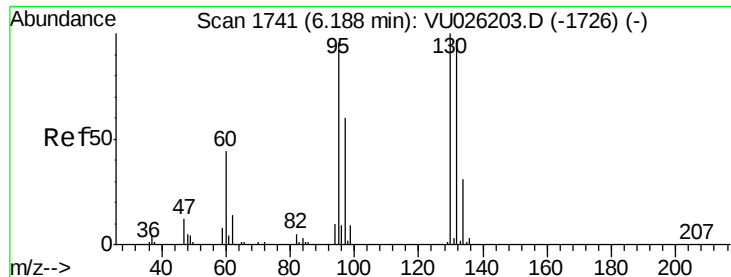
40000

20000

0

Time-->

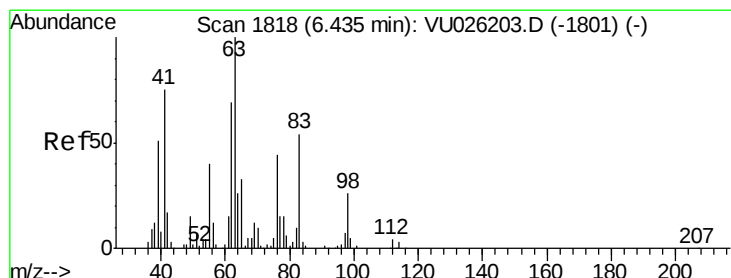
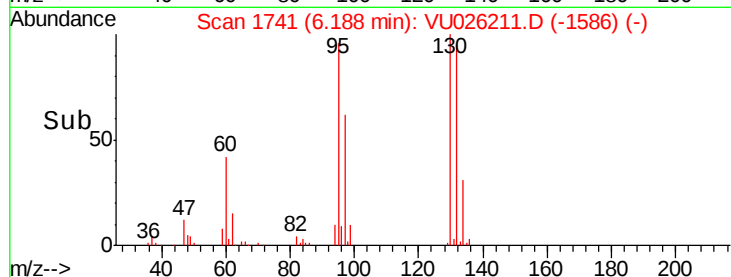
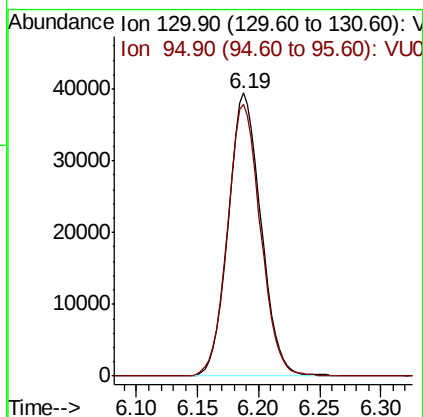
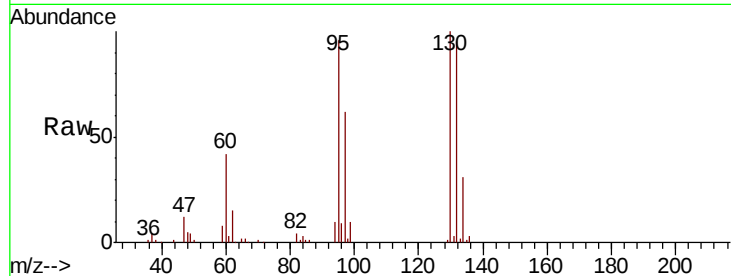




#37
 Trichloroethene
 Concen: 7.20 ug/l
 RT: 6.19 min Scan# 1741
 Delta R.T. -0.00 min
 Lab File: VU026211.D
 Acq: 20 Aug 2018 16:22

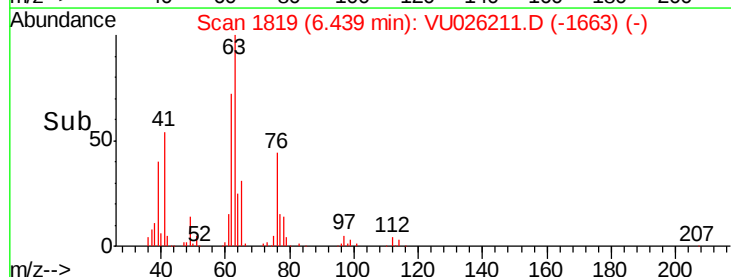
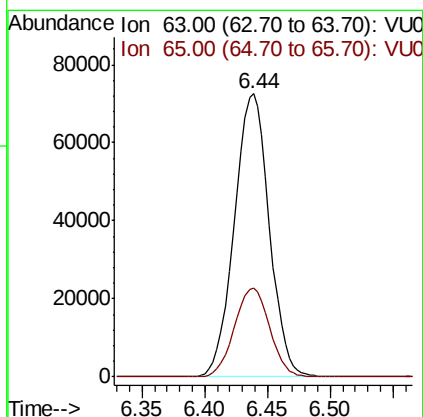
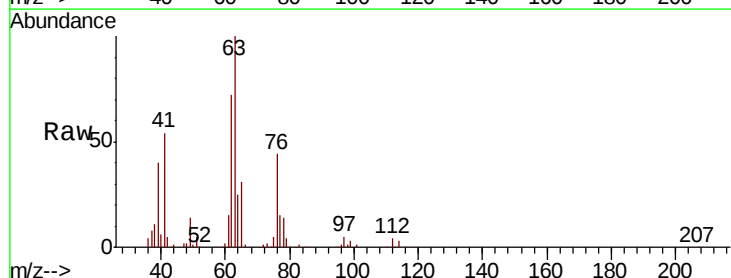
Instrument :
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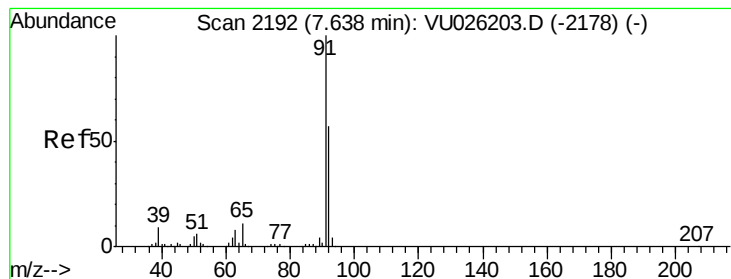
Tot Ion:130 Resp: 73516
 Ion Ratio Lower Upper
 130 100
 95 95.9 77.9 116.9



#38
 1,2-Dichloropropane
 Concen: 14.94 ug/l
 RT: 6.44 min Scan# 1819
 Delta R.T. 0.00 min
 Lab File: VU026211.D
 Acq: 20 Aug 2018 16:22

Tgt Ion: 63 Resp: 140334
 Ion Ratio Lower Upper
 63 100
 65 31.4 25.8 38.8





#49

Toluene

Concen: 19.09 ug/l

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU026211.D

Acq: 20 Aug 2018 16:22

Instrument :

MSVOA_U

ClientSampleId :

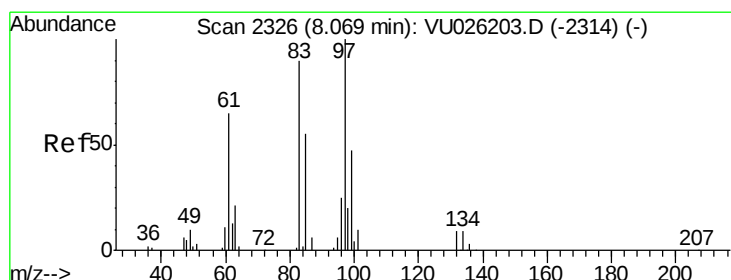
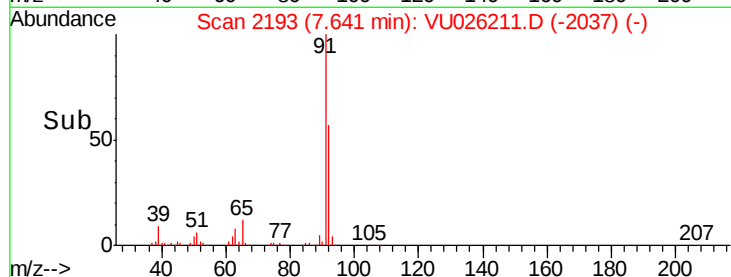
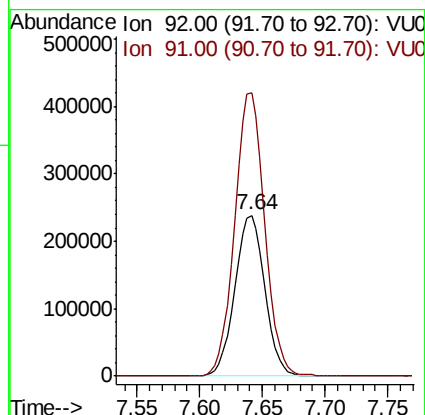
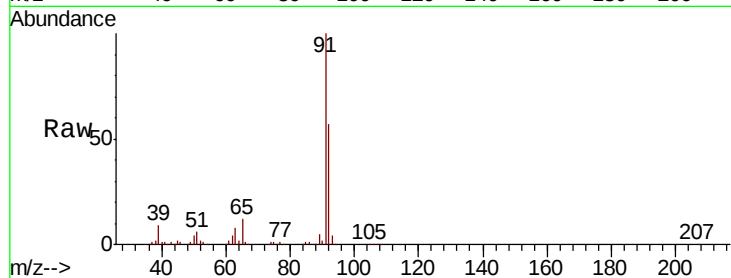
PT-RVOA-WS

Tot Ion: 92 Resp: 395253

Ion Ratio Lower Upper

92 100

91 176.6 137.1 205.7



#52

1,1,2-Trichloroethane

Concen: 22.43 ug/l

RT: 8.07 min Scan# 2327

Delta R.T. 0.00 min

Lab File: VU026211.D

Acq: 20 Aug 2018 16:22

Tgt Ion: 97 Resp: 151853

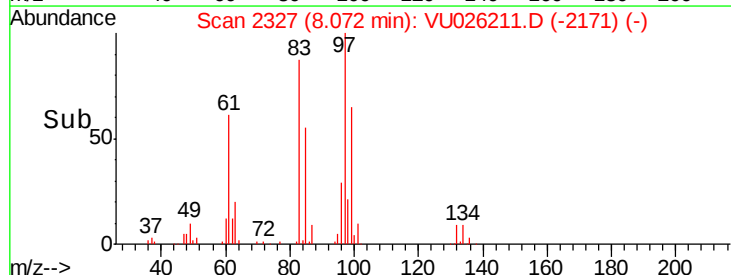
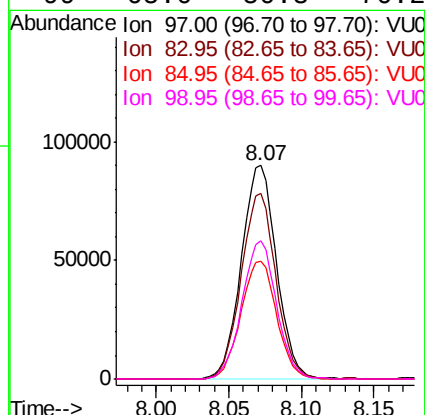
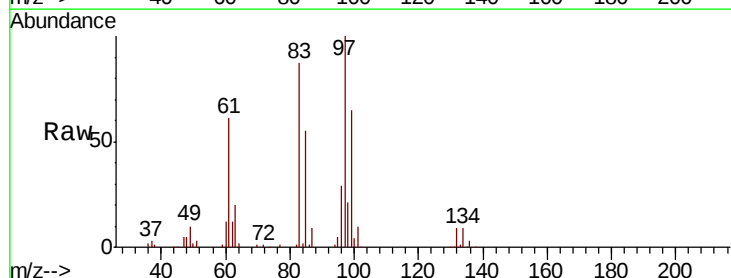
Ion Ratio Lower Upper

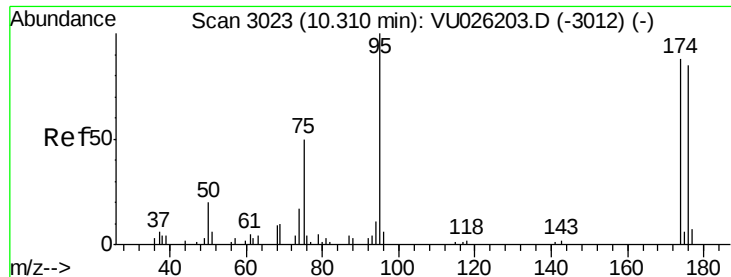
97 100

83 86.8 72.6 109.0

85 55.0 47.2 70.8

99 65.0 50.8 76.2

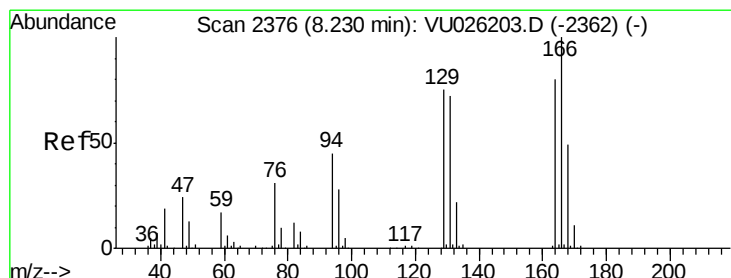
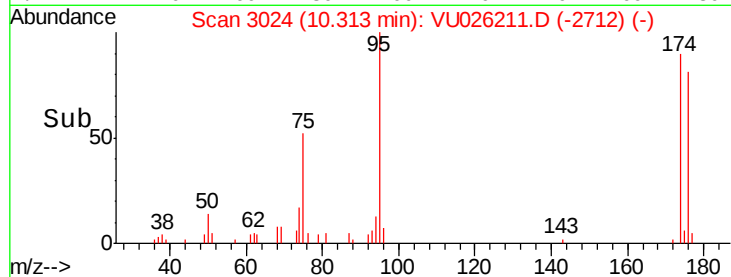
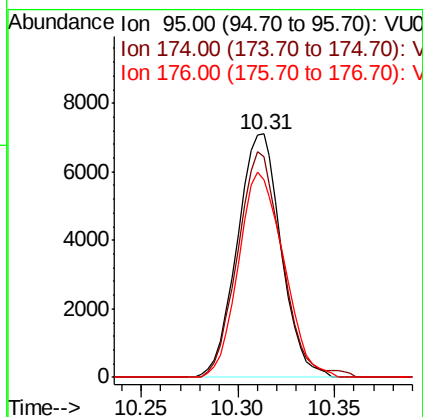
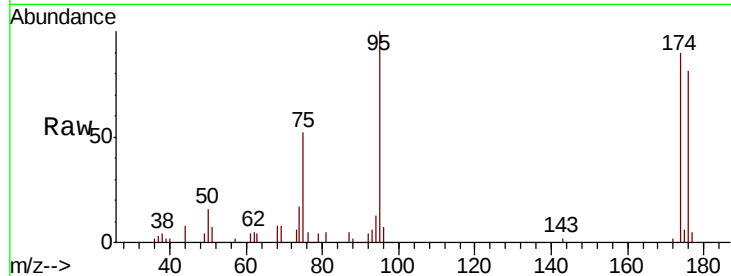




#57
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 10.31 min Scan# 3024
Delta R.T. 0.00 min
Lab File: VU026211.D
Acq: 20 Aug 2018 16:22

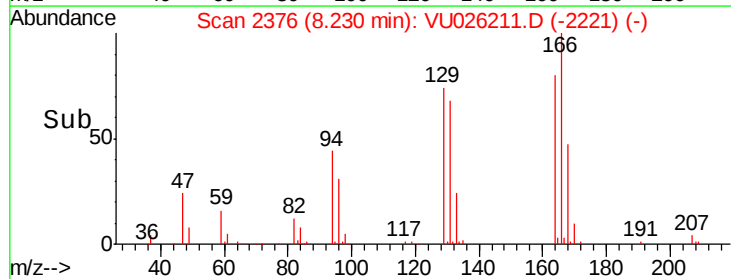
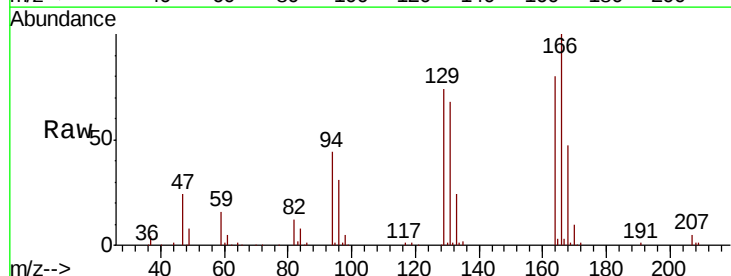
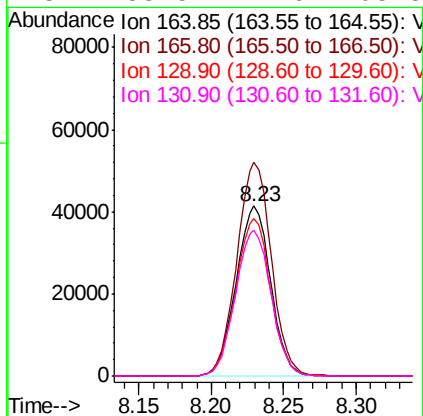
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WS

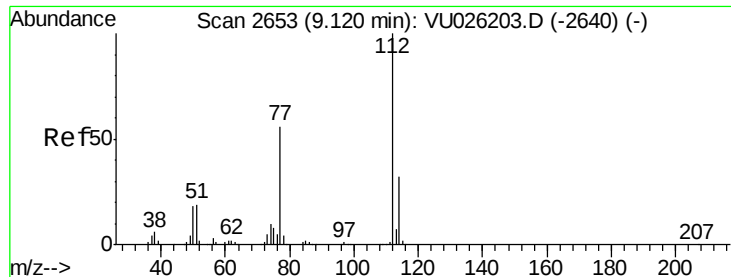
Tot Ion	95	Resp	11235
Ion Ratio	Lower	Upper	
95	100		
174	93.8	65.6	98.4
176	87.2	62.0	93.0



#58
Tetrachloroethene
Concen: 7.11 ug/l
RT: 8.23 min Scan# 2376
Delta R.T. -0.00 min
Lab File: VU026211.D
Acq: 20 Aug 2018 16:22

Tgt Ion	164	Resp	68599
Ion Ratio	Lower	Upper	
164	100		
166	125.5	104.1	156.1
129	92.9	76.8	115.2
131	85.5	72.6	108.8

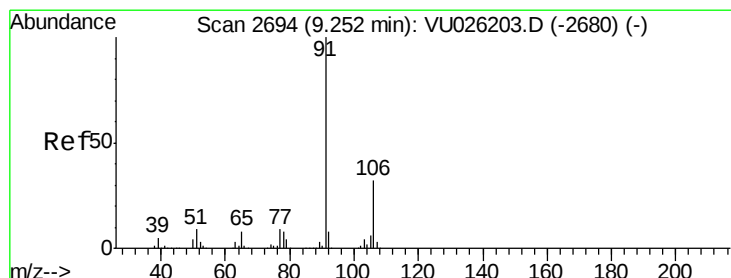
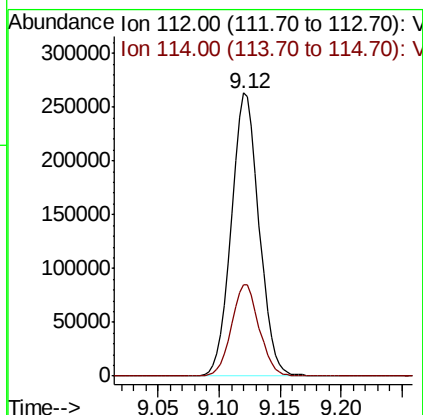
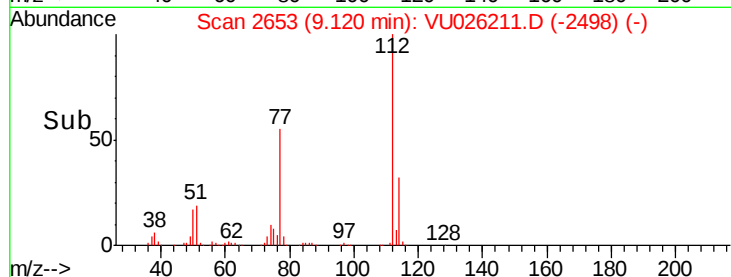
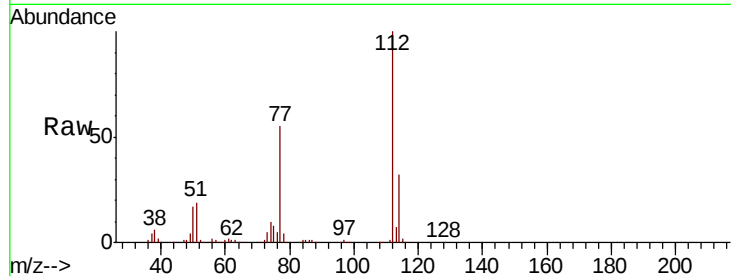




#59
Chlorobenzene
Concen: 17.41 ug/l
RT: 9.12 min Scan# 2653
Delta R.T. -0.00 min
Lab File: VU026211.D
Acq: 20 Aug 2018 16:22

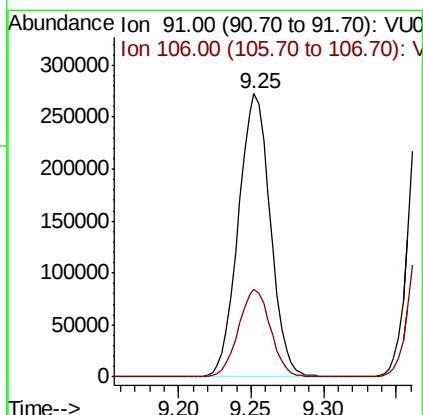
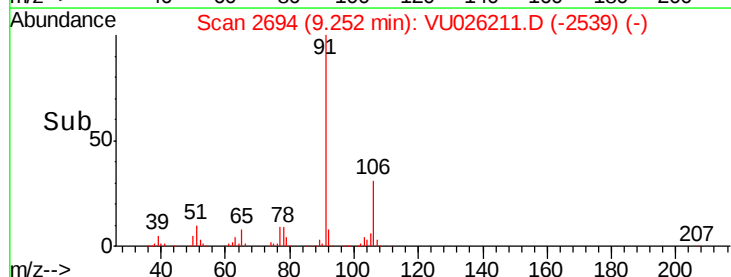
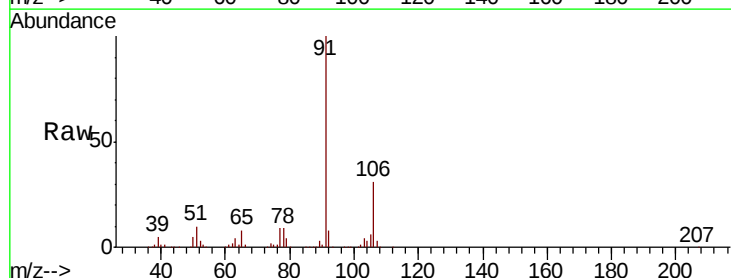
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WS

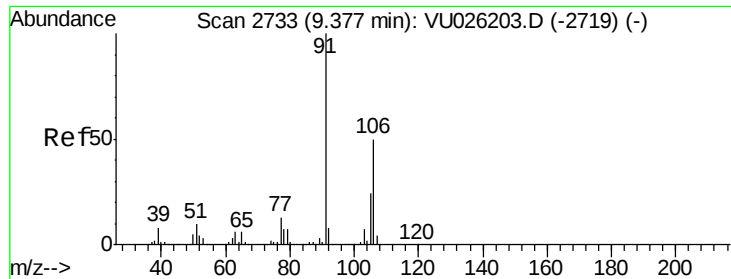
Tot Ion:112 Resp: 417626
Ion Ratio Lower Upper
112 100
114 32.4 25.4 38.2



#63
Ethyl Benzene
Concen: 10.99 ug/l
RT: 9.25 min Scan# 2694
Delta R.T. -0.00 min
Lab File: VU026211.D
Acq: 20 Aug 2018 16:22

Tgt Ion: 91 Resp: 418302
Ion Ratio Lower Upper
91 100
106 31.0 24.7 37.1





#64

m/p-Xylenes

Concen: 35.57 ug/l

RT: 9.38 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VU026211.D

Acq: 20 Aug 2018 16:22

Instrument :

MSVOA_U

ClientSampleId :

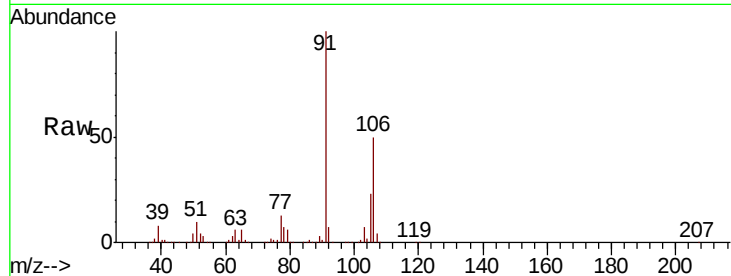
PT-RVOA-WS

Tot Ion:106 Resp: 540476

Ion Ratio Lower Upper

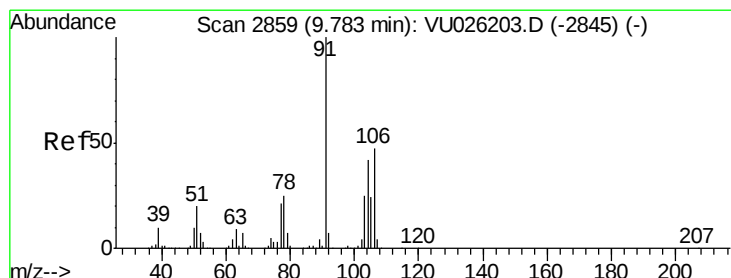
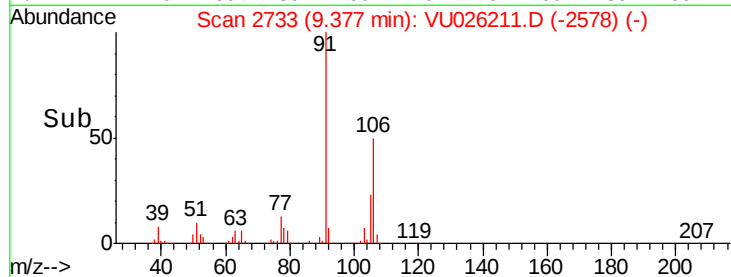
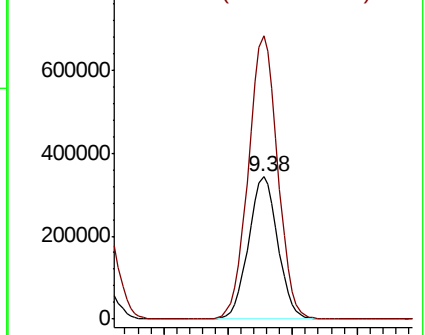
106 100

91 199.9 164.1 246.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#65

o-Xylene

Concen: 17.67 ug/l

RT: 9.78 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VU026211.D

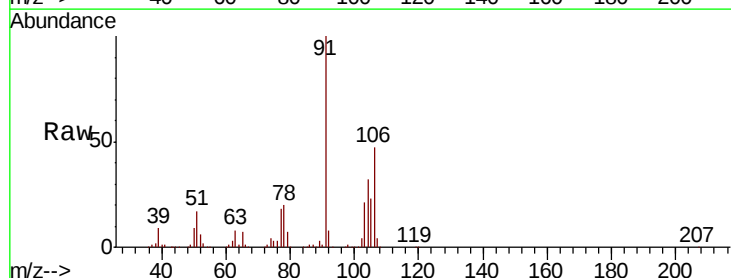
Acq: 20 Aug 2018 16:22

Tgt Ion:106 Resp: 255995

Ion Ratio Lower Upper

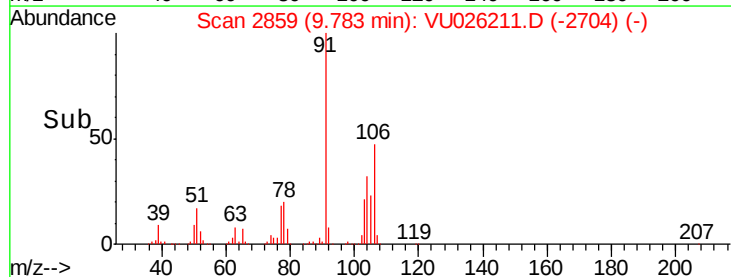
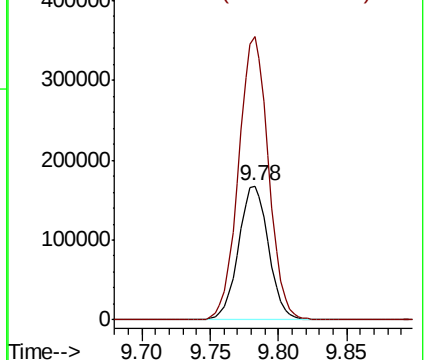
106 100

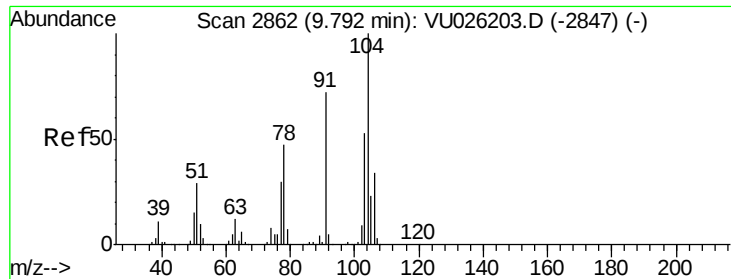
91 210.1 107.9 323.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

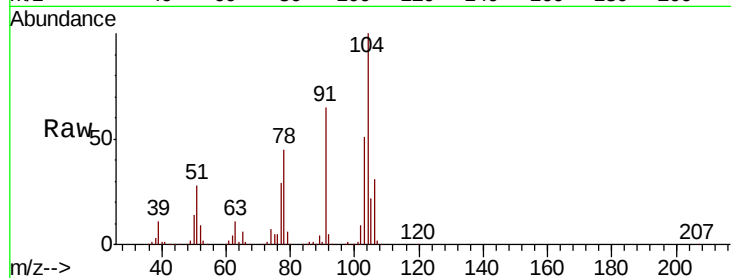




#66
Stvrene
Concen: 13.67 ug/l
RT: 9.80 min Scan# 2863
Delta R.T. 0.00 min
Lab File: VU026211.D
Acq: 20 Aug 2018 16:22

Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WS

Tot Ion	Ratio	Lower	Upper
104	100		
78	51.2	40.2	60.2
103	57.3	44.2	66.4

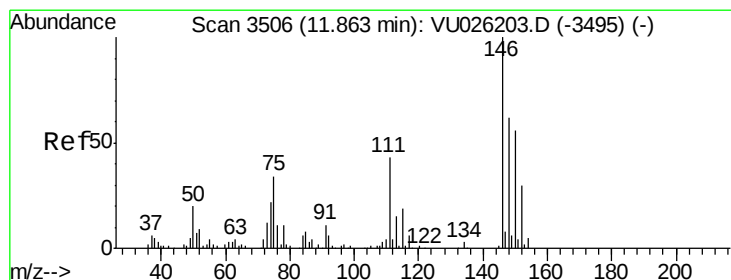
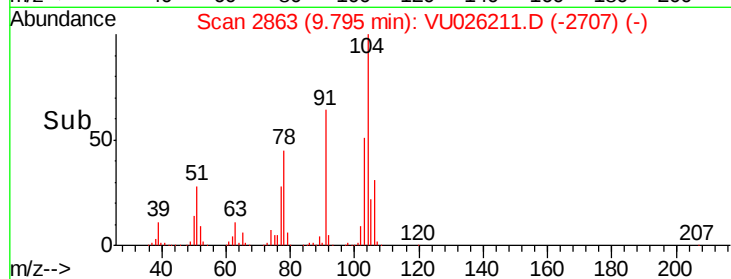
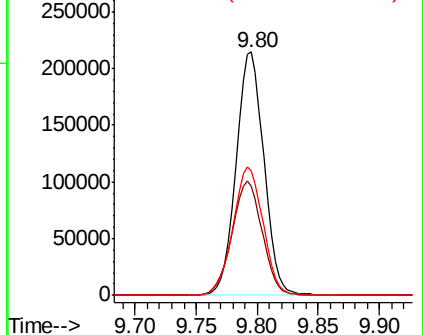


Abundance

Ion 104.00 (103.70 to 104.70): V

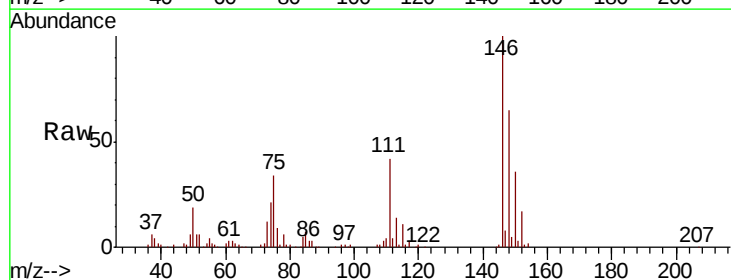
Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): V



#68
1,2-Dichlorobenzene-d4
Concen: Below ug/l
RT: 11.86 min Scan# 3506
Delta R.T. -0.00 min
Lab File: VU026211.D
Acq: 20 Aug 2018 16:22

Tgt Ion	Ratio	Lower	Upper
152	100		
115	62.8	0.0	118.8
150	438.4	0.0	0.0#

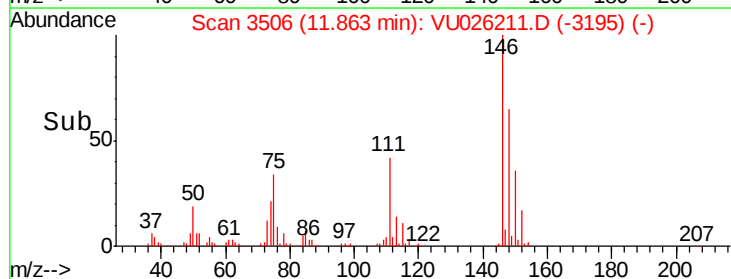
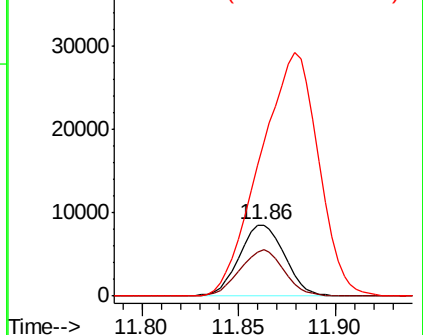


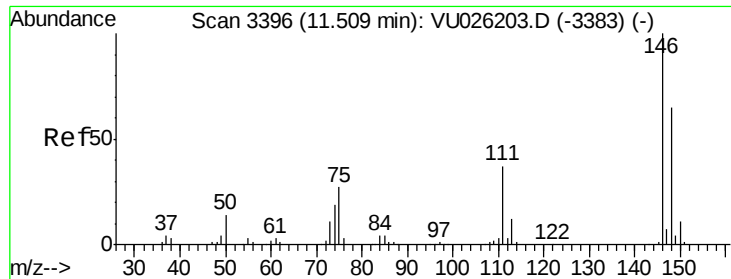
Abundance

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

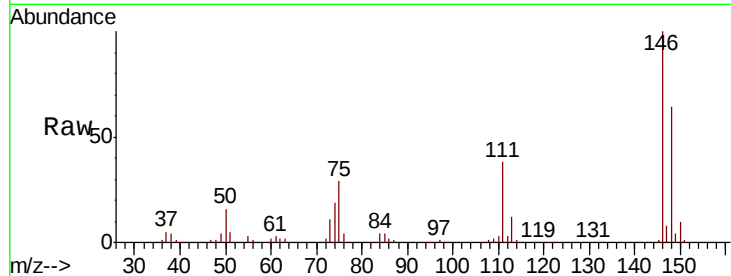




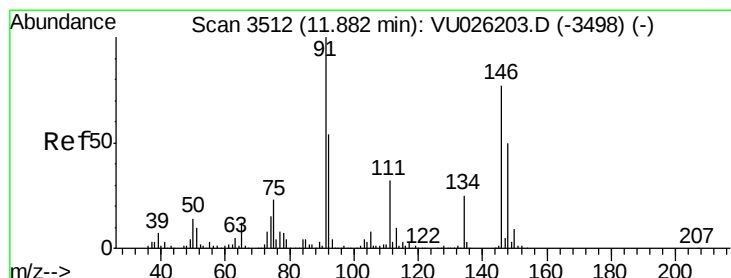
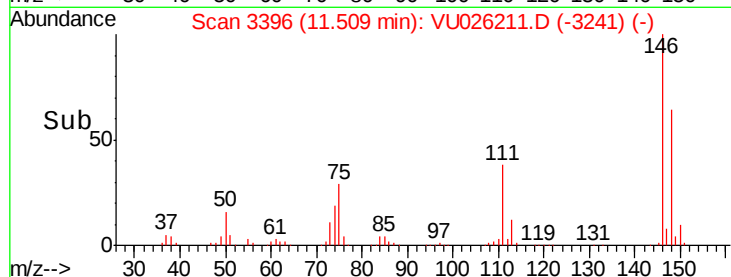
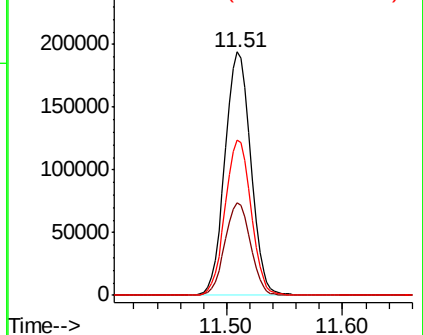
#83
 1,4-Dichlorobenzene
 Concen: 13.26 ug/l
 RT: 11.51 min Scan# 3396
 Delta R.T. -0.00 min
 Lab File: VU026211.D
 Acq: 20 Aug 2018 16:22

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WS

Tot Ion:146 Resp: 298808
 Ion Ratio Lower Upper
 146 100
 111 37.7 30.1 45.1
 148 63.9 50.6 76.0

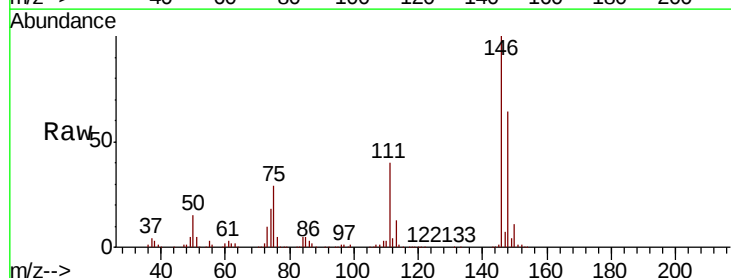


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

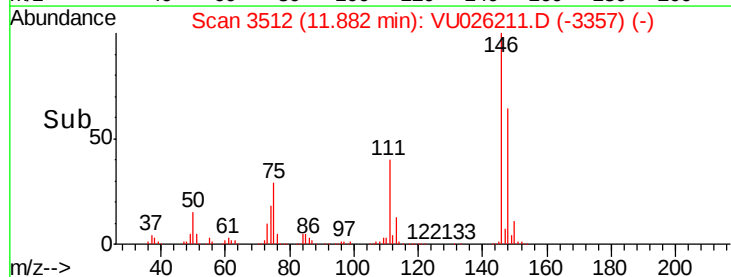
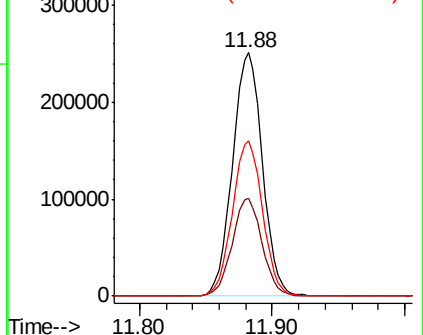


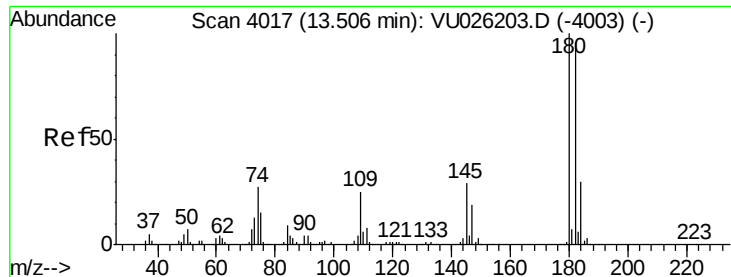
#85
 1,2-Dichlorobenzene
 Concen: 18.96 ug/l
 RT: 11.88 min Scan# 3512
 Delta R.T. -0.00 min
 Lab File: VU026211.D
 Acq: 20 Aug 2018 16:22

Tgt Ion:146 Resp: 393053
 Ion Ratio Lower Upper
 146 100
 111 40.1 20.7 62.1
 148 64.3 31.9 95.5



Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

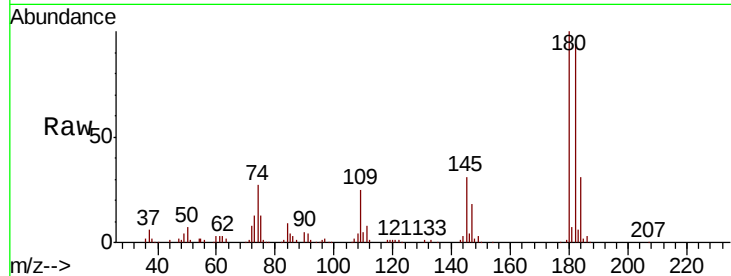




#87
 1,2,4-Trichlorobenzene
 Concen: 9.85 ug/l
 RT: 13.51 min Scan# 4017
 Delta R.T. -0.00 min
 Lab File: VU026211.D
 Acq: 20 Aug 2018 16:22

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WS

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.9	77.1	115.7
145	29.9	23.3	34.9



Abundance

Ion 179.70 (179.40 to 180.40): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

