

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU020819\
 Data File : VU029382.D
 Acq On : 08 Feb 2019 16:51
 Operator : JC/SP
 Sample : K1161-08DL 5X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WSDL

Quant Time: Feb 09 03:57:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U020519DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Fri Feb 08 10:52:46 2019
 Response via : Initial Calibration

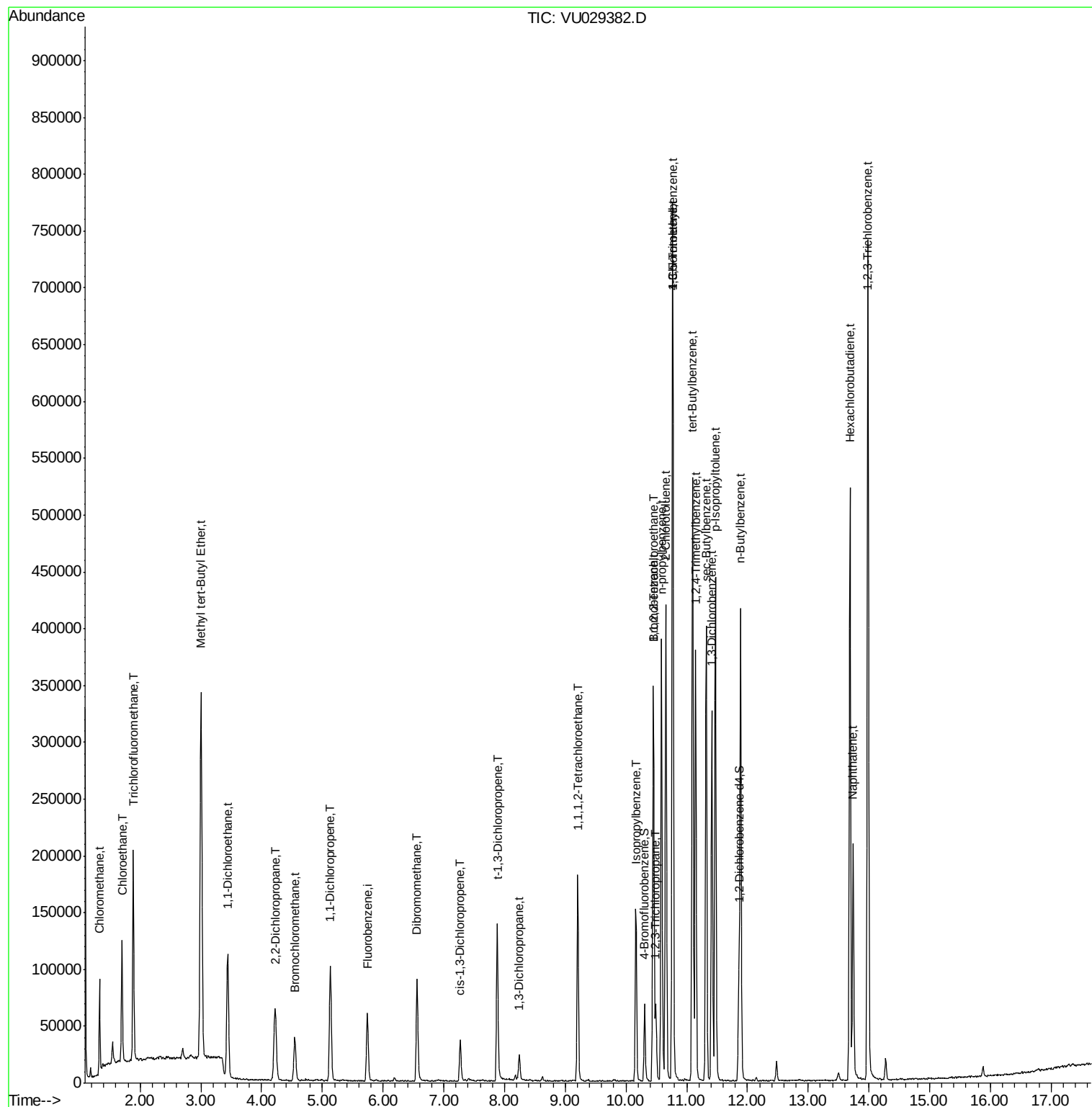
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	5.74	96	59620	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.31	95	23001	0.99	ug/l	0.00
Spiked Amount 1.000			Recovery	=	99.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	25062	1.05	ug/l	0.00
Spiked Amount 1.000			Recovery	=	105.00%	
Target Compounds						Ovalue
3) Chloromethane	1.33	50	48234	2.372	ug/l	98
6) Chloroethane	1.70	64	66199	4.754	ug/l	98
7) Trichlorofluoromethane	1.89	101	113511	3.410	ug/l	98
17) 1,1-Dichloroethane	3.44	63	114134	3.745	ug/l	96
21) 2,2-Dichloropropane	4.22	77	54911	1.946	ug/l	96
25) Methyl tert-Butyl Ether	3.00	73	361473	7.464	ug/l #	85
26) Bromochloromethane	4.55	128	14882	1.860	ug/l	66
29) 1,1-Dichloropropene	5.13	75	56764	2.380	ug/l	90
43) Dibromomethane	6.56	93	34654	3.790	ug/l	89
50) t-1,3-Dichloropropene	7.88	75	81323	3.561	ug/l	97
51) cis-1,3-Dichloropropene	7.27	75	22817	0.841	ug/l #	83
53) 1,3-Dichloropropane	8.24	76	13420	0.631	ug/l	96
60) 1,1,1,2-Tetrachloroethane	9.21	131	50383	2.868	ug/l	96
69) Isopropylbenzene	10.16	105	102067	1.213	ug/l	94
70) 1,1,2,2-Tetrachloroethane	10.46	83	49989	3.222	ug/l	98
71) 1,2,3-Trichloropropane	10.49	75	25216	2.367	ug/l #	87
72) Bromobenzene	10.45	156	78267	3.837	ug/l	83
73) n-propylbenzene	10.58	120	73406	3.132	ug/l	79
74) 2-Chlorotoluene	10.66	126	86695	4.344	ug/l	73
75) 1,3,5-Trimethylbenzene	10.77	105	257216	3.546	ug/l	96
76) 4-Chlorotoluene	10.77	126	66636	3.217	ug/l	78
77) tert-Butylbenzene	11.10	119	264187	3.684	ug/l	98
78) 1,2,4-Trimethylbenzene	11.15	105	215188	2.930	ug/l	94
79) sec-Butylbenzene	11.32	105	278551	2.969	ug/l	94
81) p-Isopropyltoluene	11.48	119	255045	3.207	ug/l	93
82) 1,3-Dichlorobenzene	11.41	146	140315	3.507	ug/l	96
84) n-Butylbenzene	11.89	91	229951	3.151	ug/l	96
88) Hexachlorobutadiene	13.69	225	102797	6.679	ug/l	99
89) Naphthalene	13.74	128	176993	3.927	ug/l	99
90) 1,2,3-Trichlorobenzene	13.98	180	249451	10.271	ug/l	97
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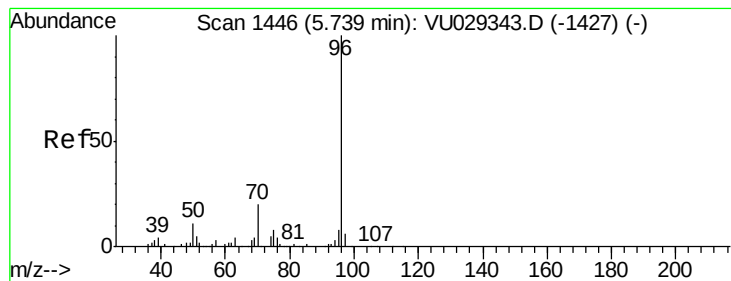
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA U\METHOD\524U020519DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Fri Feb 08 10:52:46 2019
Response via : Initial Calibration





#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.74 min Scan# 1447

Delta R.T. 0.00 min

Lab File: VU029382.D

Acq: 08 Feb 2019 16:51

Instrument :

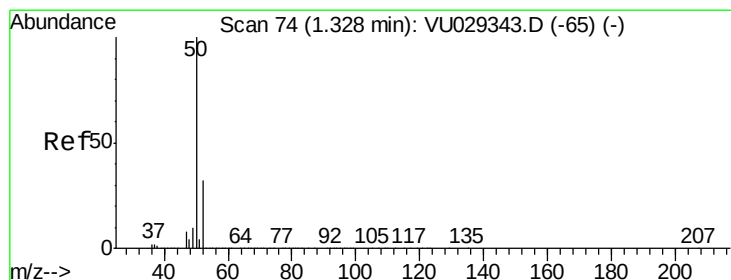
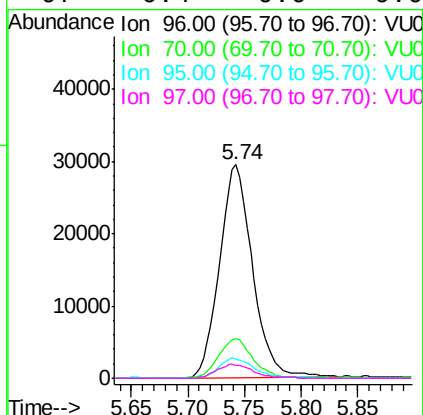
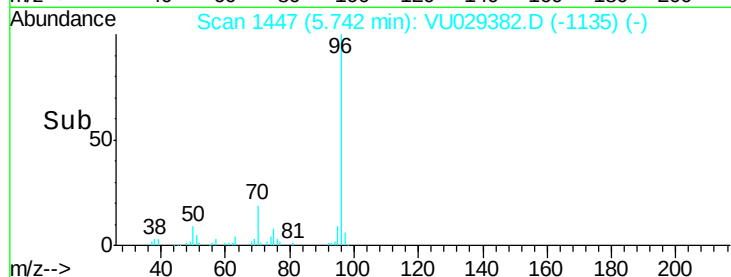
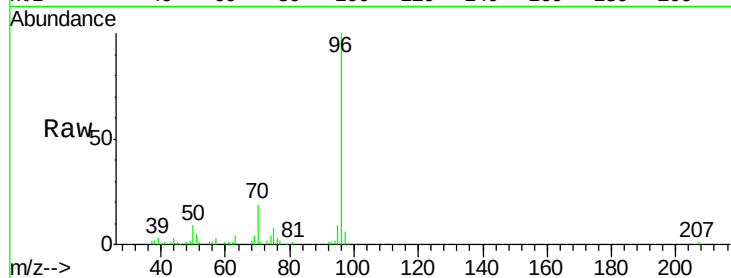
MSVOA_U

ClientSampleId :

PT-UNRVOA-WSDL

Tot Ion: 96 Resp: 59620

Ion	Ratio	Lower	Upper
96	100		
70	19.3	16.2	24.2
95	9.5	7.4	11.2
97	6.4	0.0	0.0#



#3

Chloromethane

Concen: 2.372 ug/l

RT: 1.33 min Scan# 75

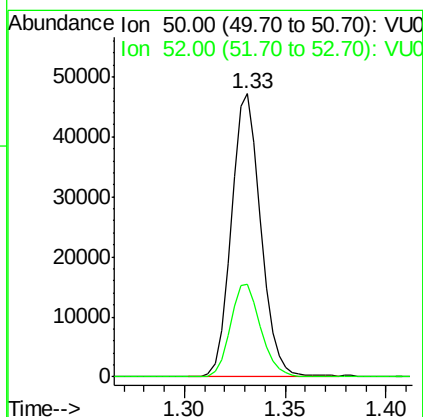
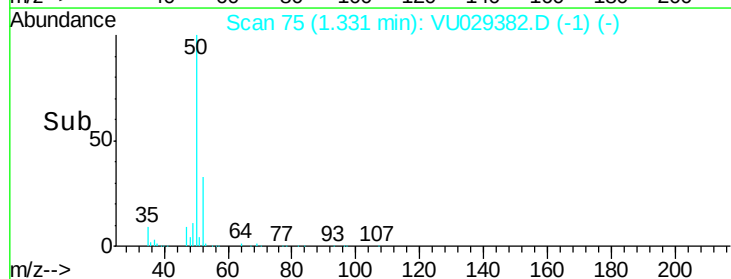
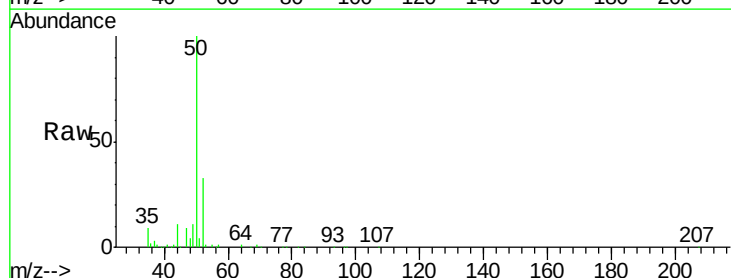
Delta R.T. 0.00 min

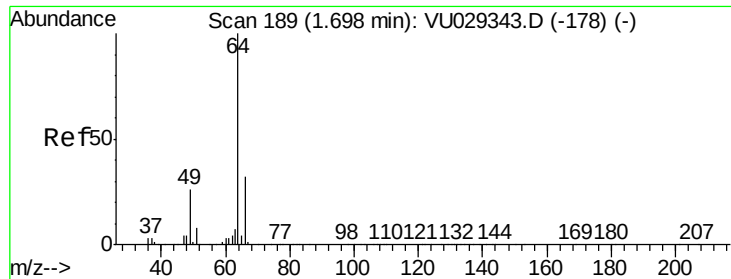
Lab File: VU029382.D

Acq: 08 Feb 2019 16:51

Tgt Ion: 50 Resp: 48234

Ion	Ratio	Lower	Upper
50	100		
52	32.7	27.3	40.9





#6

Chloroethane

Concen: 4.754 ug/l

RT: 1.70 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU029382.D

Acq: 08 Feb 2019 16:51

Instrument :

MSVOA_U

ClientSampleId :

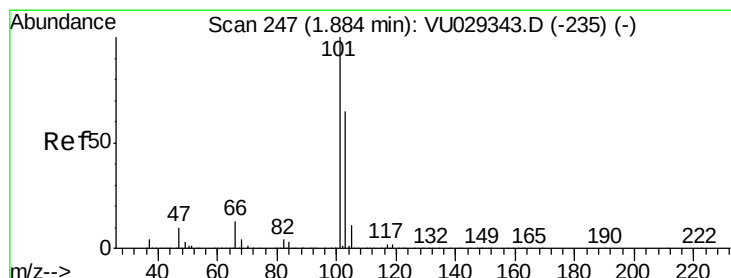
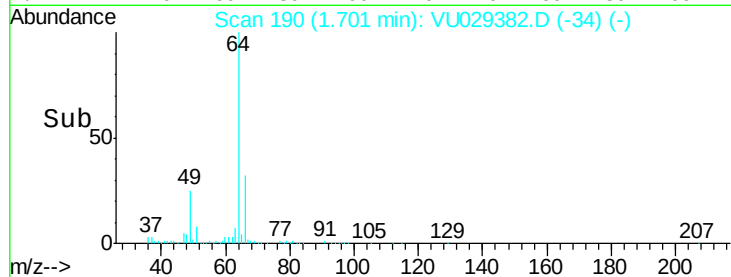
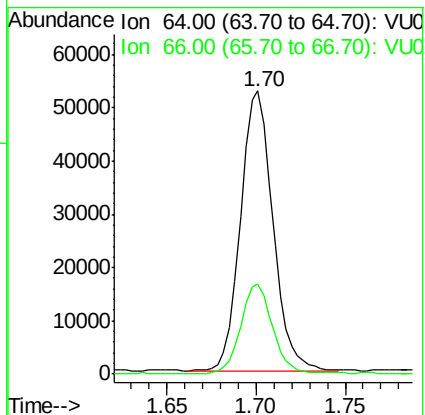
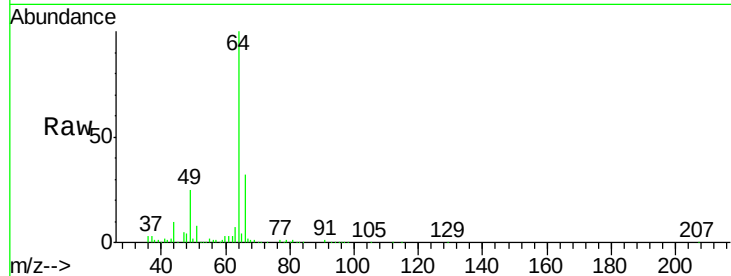
PT-UNRVOA-WSDL

Tot Ion: 64 Resp: 66199

Ion Ratio Lower Upper

64 100

66 31.8 26.3 39.5



#7

Trichlorofluoromethane

Concen: 3.410 ug/l

RT: 1.89 min Scan# 248

Delta R.T. 0.00 min

Lab File: VU029382.D

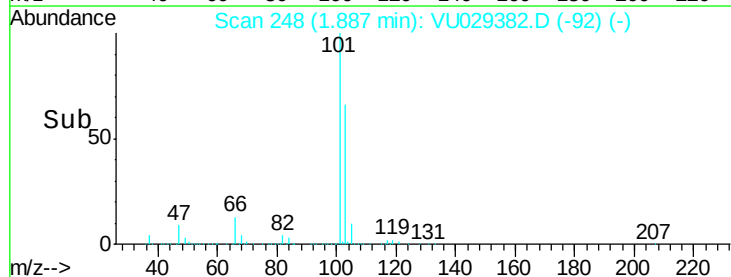
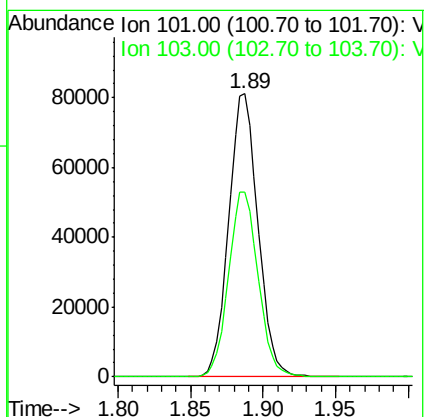
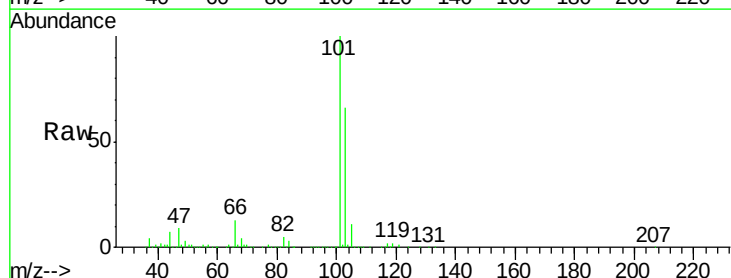
Acq: 08 Feb 2019 16:51

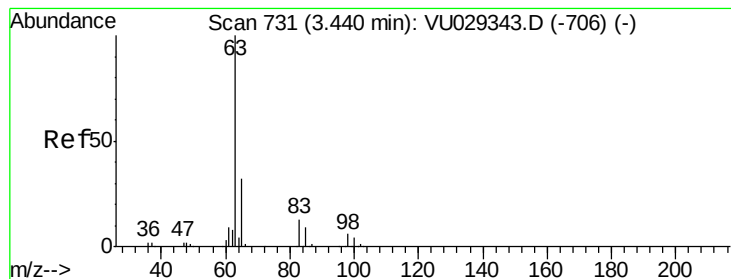
Tgt Ion: 101 Resp: 113511

Ion Ratio Lower Upper

101 100

103 65.5 53.9 80.9





#17

1,1-Dichloroethane

Concen: 3.745 ug/l

RT: 3.44 min Scan# 731

Delta R.T. -0.00 min

Lab File: VU029382.D

Acq: 08 Feb 2019 16:51

Instrument :

MSVOA_U

ClientSampleId :

PT-UNRVOA-WSDL

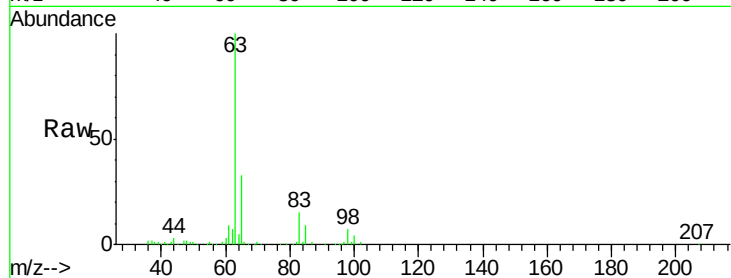
Tot Ion: 63 Resp: 114134

Ion Ratio Lower Upper

63 100

98 7.4 2.9 8.8

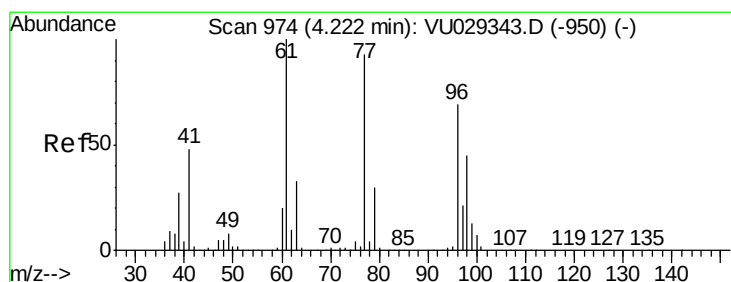
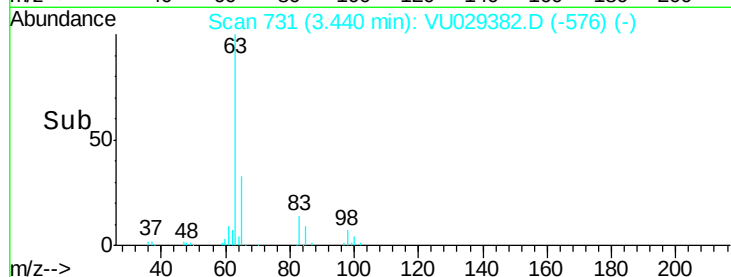
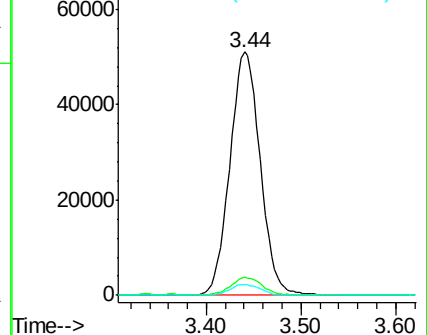
100 4.3 1.7 5.1



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU0



#21

2,2-Dichloropropane

Concen: 1.946 ug/l

RT: 4.22 min Scan# 974

Delta R.T. -0.00 min

Lab File: VU029382.D

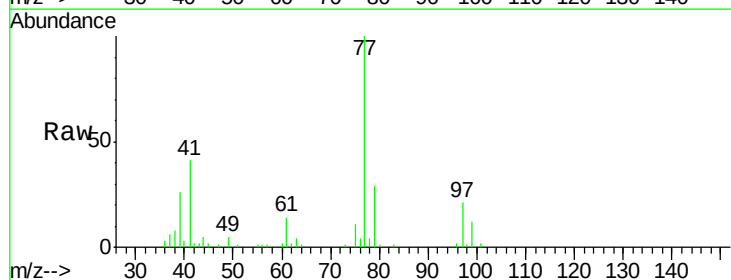
Acq: 08 Feb 2019 16:51

Tgt Ion: 77 Resp: 54911

Ion Ratio Lower Upper

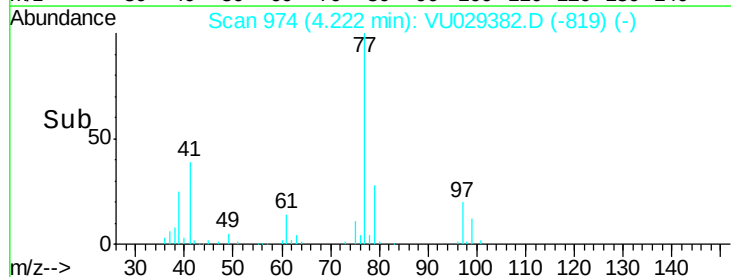
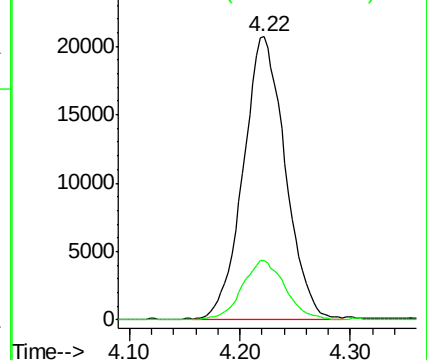
77 100

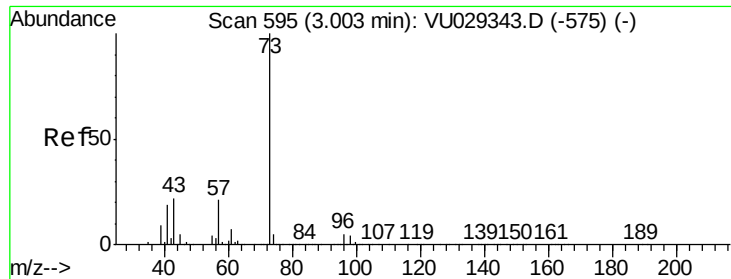
97 21.4 15.6 23.4



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: 7.464 ug/l

RT: 3.00 min Scan# 595

Delta R.T. -0.00 min

Lab File: VU029382.D

Acq: 08 Feb 2019 16:51

Instrument :

MSVOA_U

ClientSampleId :

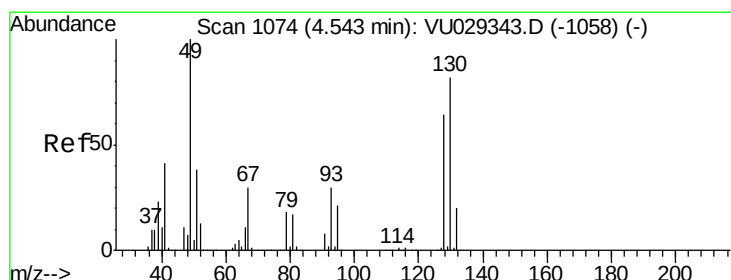
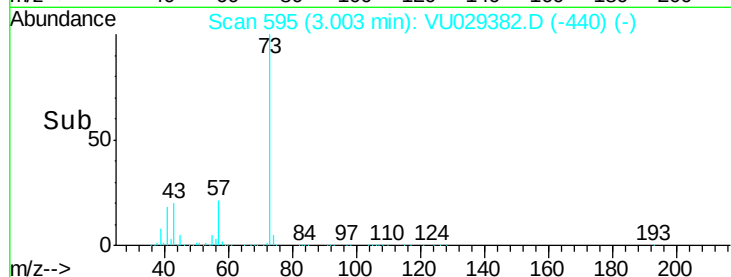
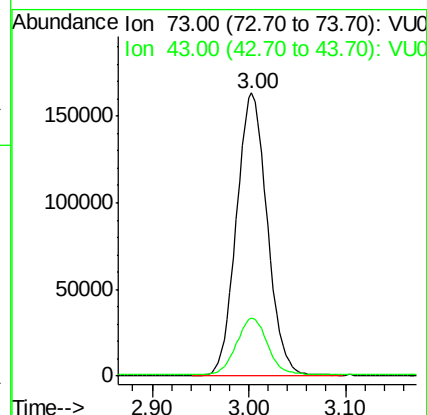
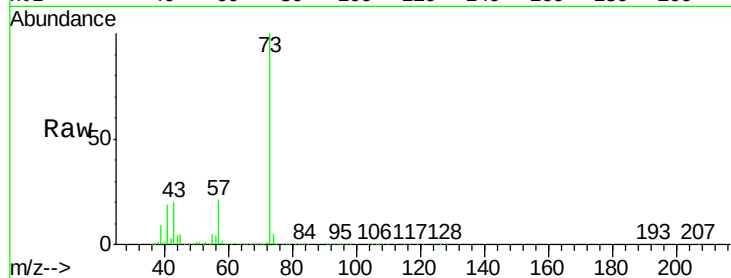
PT-UNRVOA-WSDL

Tot Ion: 73 Resp: 361473

Ion Ratio Lower Upper

73 100

43 19.5 22.1 33.1#



#26

Bromochloromethane

Concen: 1.860 ug/l

RT: 4.55 min Scan# 1075

Delta R.T. 0.00 min

Lab File: VU029382.D

Acq: 08 Feb 2019 16:51

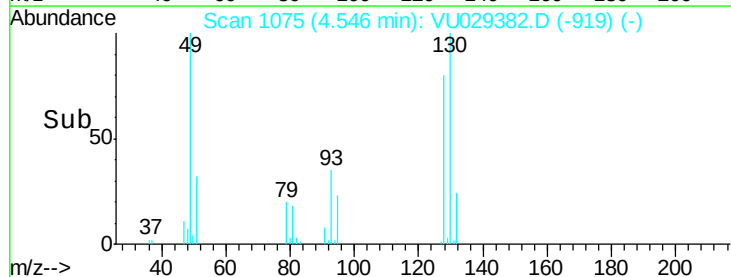
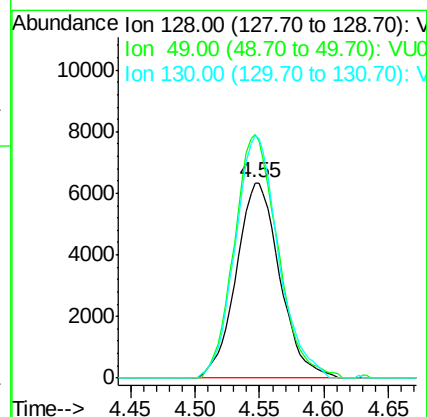
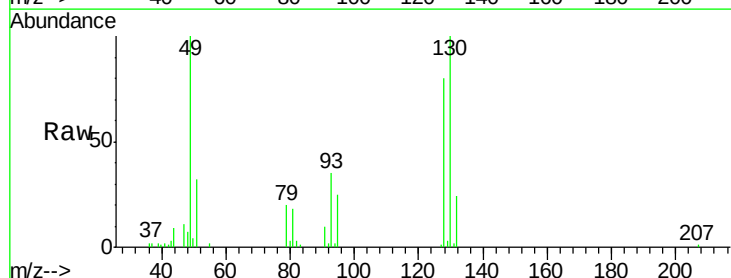
Tgt Ion: 128 Resp: 14882

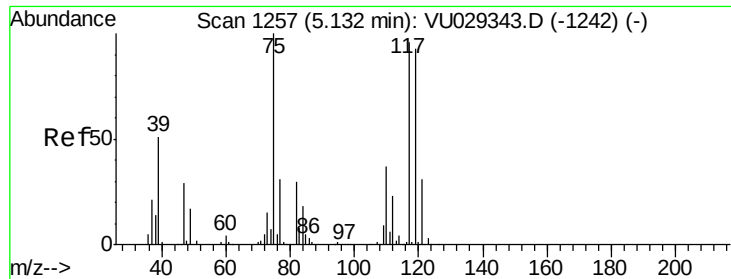
Ion Ratio Lower Upper

128 100

49 125.2 0.0 401.6

130 123.3 108.0 162.0





#29

1,1-Dichloropropene

Concen: 2.380 ug/l

RT: 5.13 min Scan# 1257

Delta R.T. -0.00 min

Lab File: VU029382.D

Acq: 08 Feb 2019 16:51

Instrument :

MSVOA_U

ClientSampleId :

PT-UNRVOA-WSDL

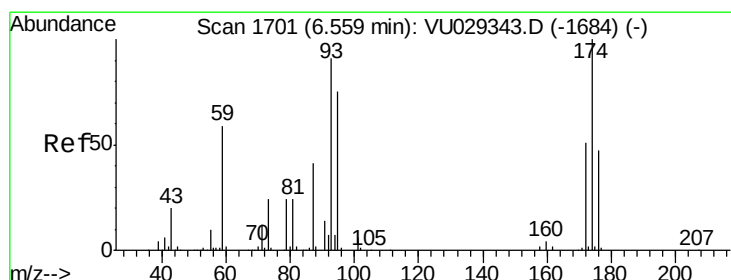
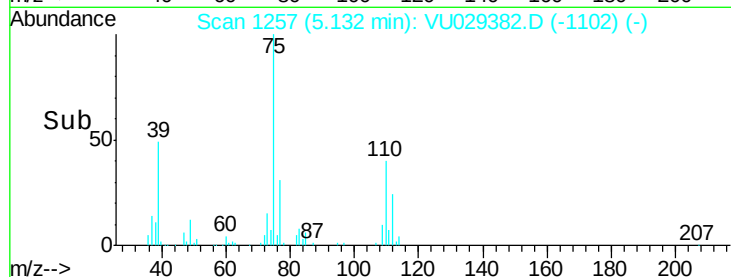
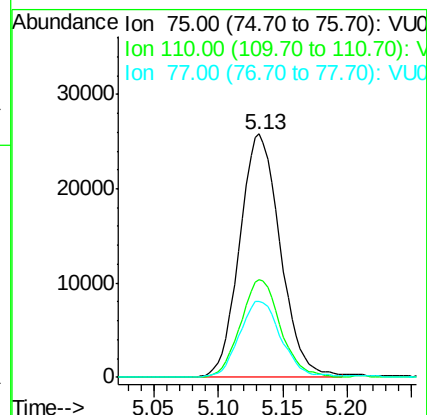
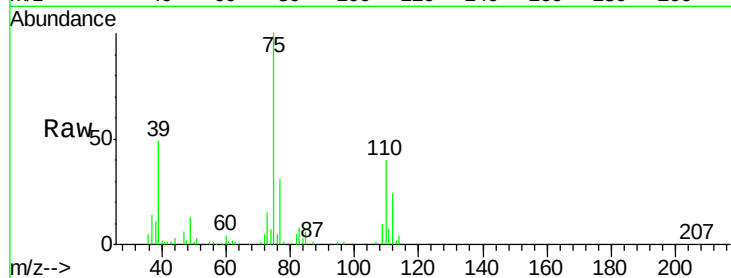
Tot Ion: 75 Resp: 56764

Ion Ratio Lower Upper

75 100

110 39.2 15.4 46.2

77 32.2 24.1 36.1



#43

Dibromomethane

Concen: 3.790 ug/l

RT: 6.56 min Scan# 1701

Delta R.T. -0.00 min

Lab File: VU029382.D

Acq: 08 Feb 2019 16:51

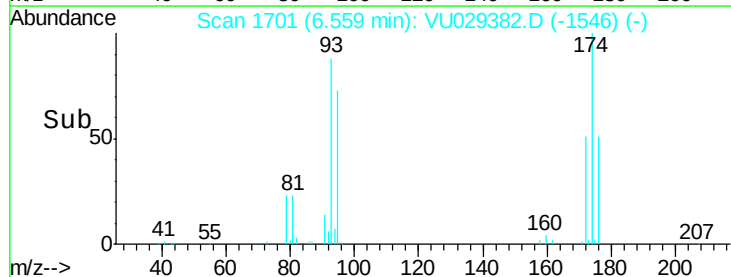
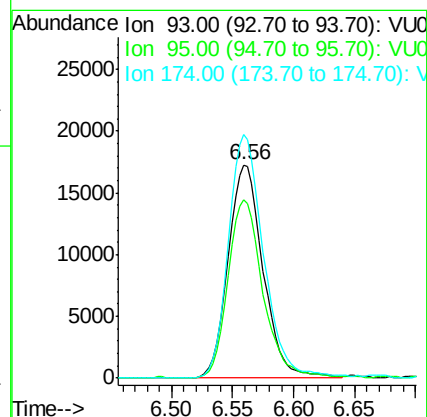
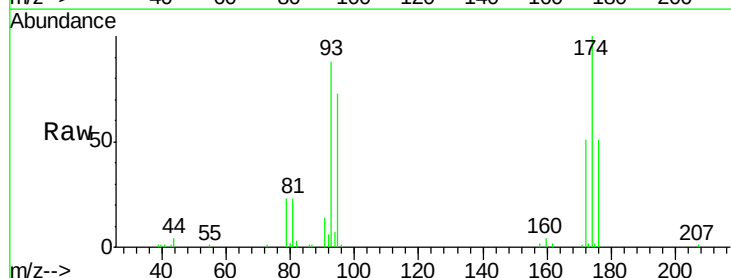
Tgt Ion: 93 Resp: 34654

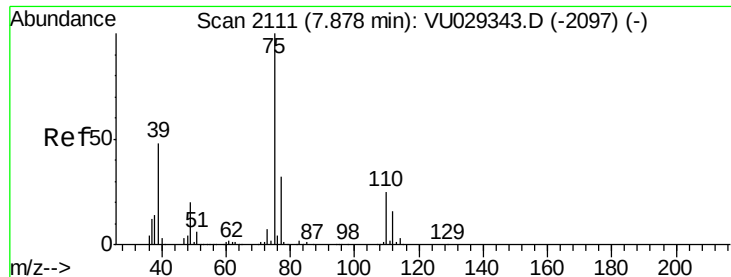
Ion Ratio Lower Upper

93 100

95 83.6 68.2 102.2

174 115.1 77.6 116.4





#50

t-1,3-Dichloropropene

Concen: 3.561 ug/l

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VU029382.D

Acq: 08 Feb 2019 16:51

Instrument :

MSVOA_U

ClientSampleId :

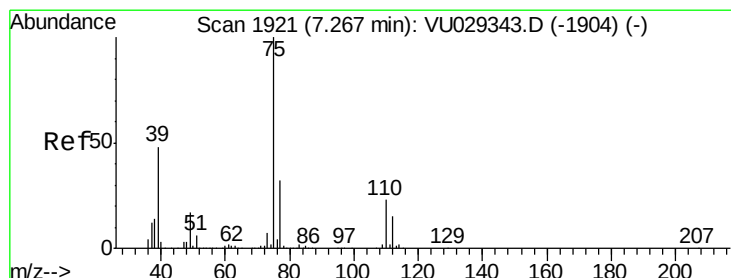
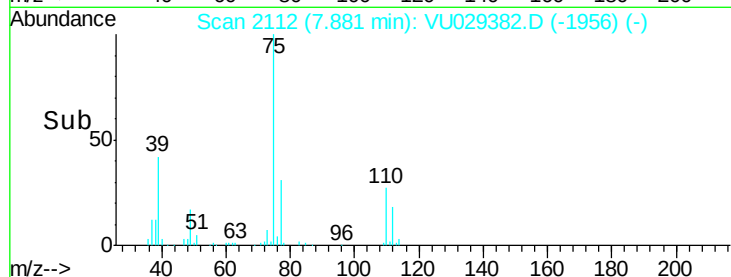
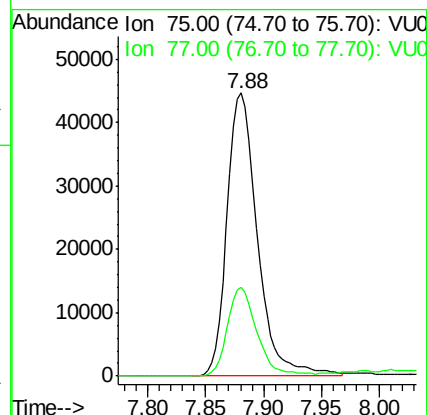
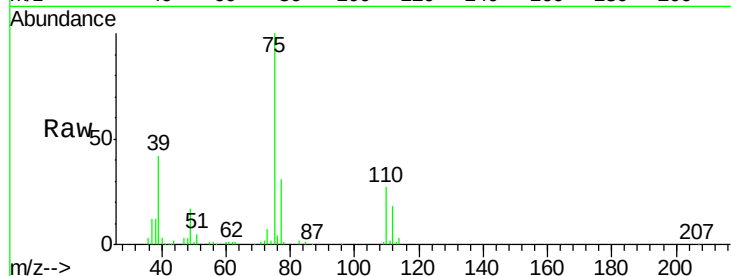
PT-UNRVOA-WSDL

Tot Ion: 75 Resp: 81323

Ion Ratio Lower Upper

75 100

77 31.3 23.6 35.4



#51

cis-1,3-Dichloropropene

Concen: 0.841 ug/l

RT: 7.27 min Scan# 1922

Delta R.T. 0.00 min

Lab File: VU029382.D

Acq: 08 Feb 2019 16:51

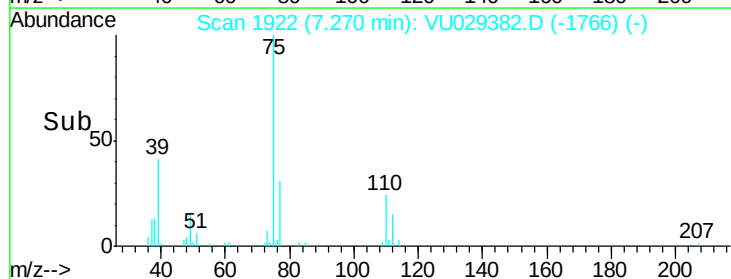
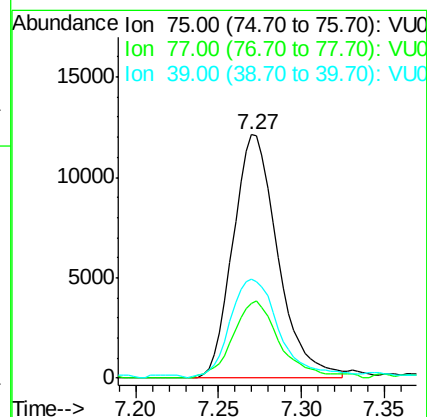
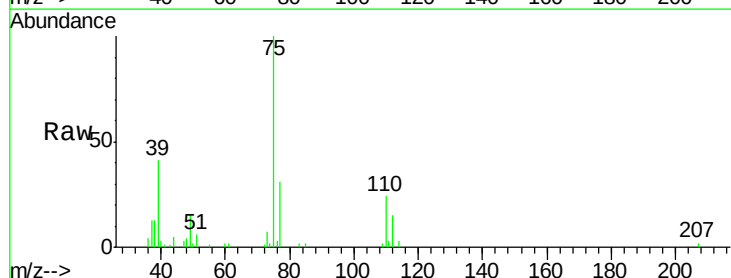
Tgt Ion: 75 Resp: 22817

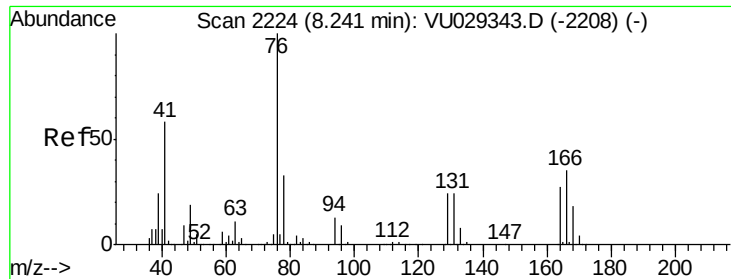
Ion Ratio Lower Upper

75 100

77 30.9 24.9 37.3

39 40.0 47.2 70.8#





#53

1,3-Dichloropropane

Concen: 0.631 ug/l

RT: 8.24 min Scan# 2225

Delta R.T. 0.00 min

Lab File: VU029382.D

Acq: 08 Feb 2019 16:51

Instrument :

MSVOA_U

ClientSampleId :

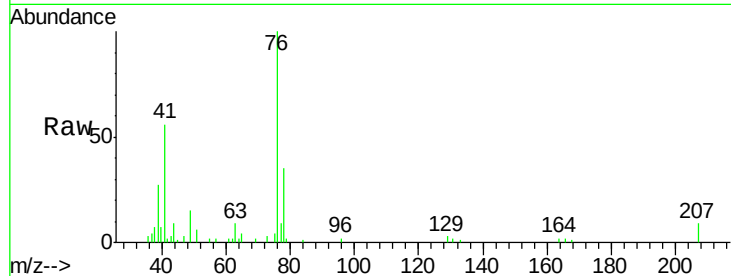
PT-UNRVOA-WSDL

Tot Ion: 76 Resp: 13420

Ion Ratio Lower Upper

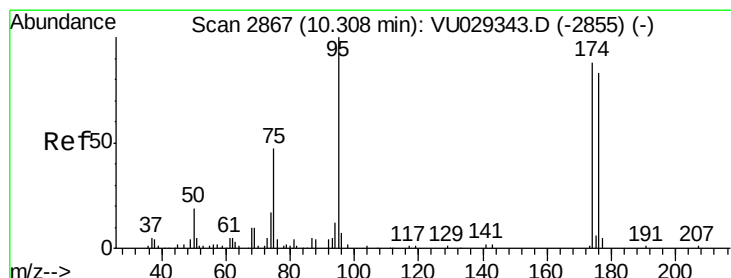
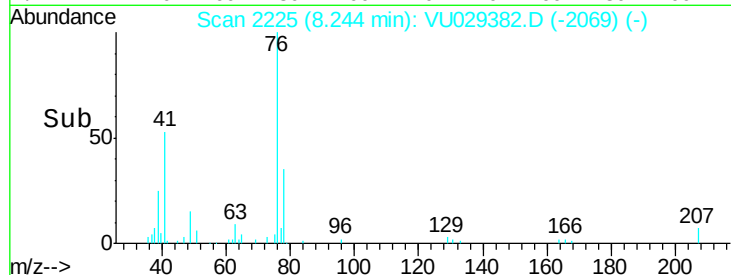
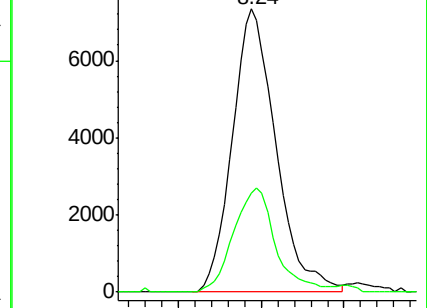
76 100

78 35.3 26.3 39.5



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# 2867

Delta R.T. -0.00 min

Lab File: VU029382.D

Acq: 08 Feb 2019 16:51

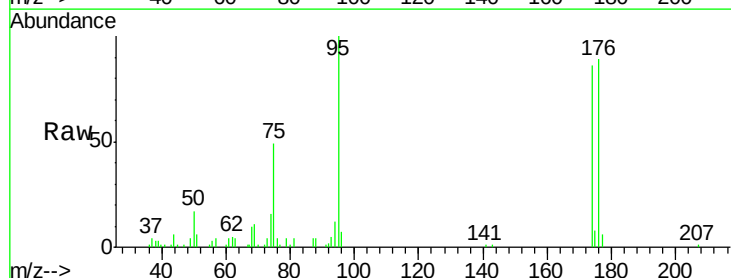
Tgt Ion: 95 Resp: 23001

Ion Ratio Lower Upper

95 100

174 86.2 64.2 96.2

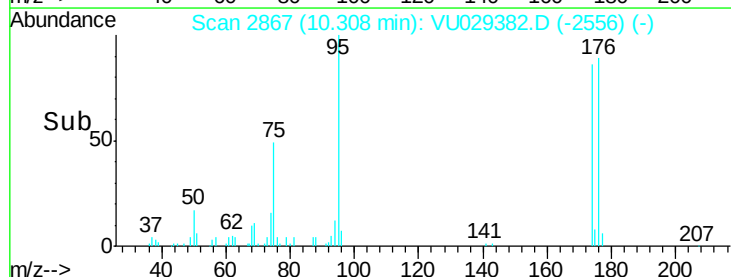
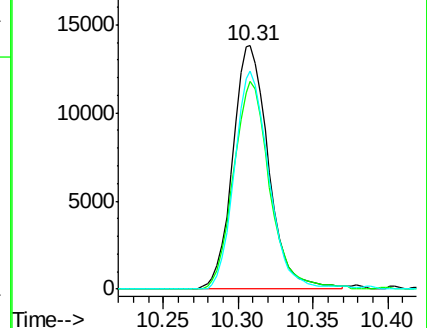
176 86.0 62.3 93.5

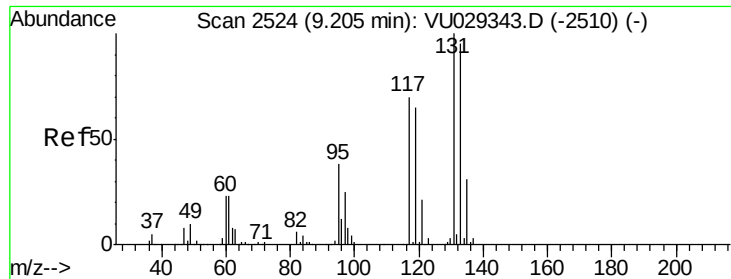


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





#60

1,1,1,2-Tetrachloroethane

Concen: 2.868 ug/l

RT: 9.21 min Scan# 2524

Delta R.T. -0.00 min

Lab File: VU029382.D

Acq: 08 Feb 2019 16:51

Instrument :

MSVOA_U

ClientSampleId :

PT-UNRVOA-WSDL

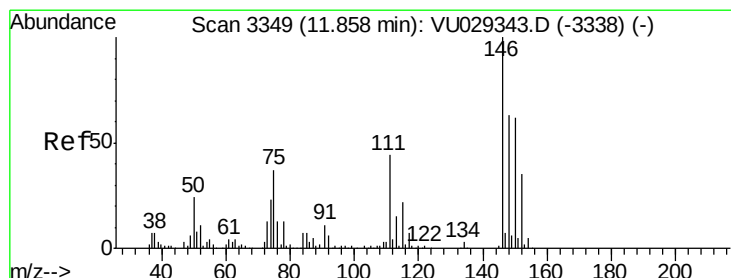
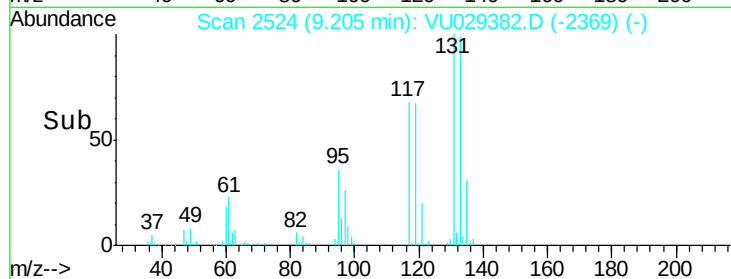
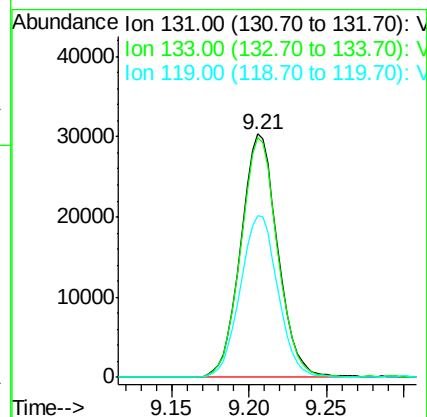
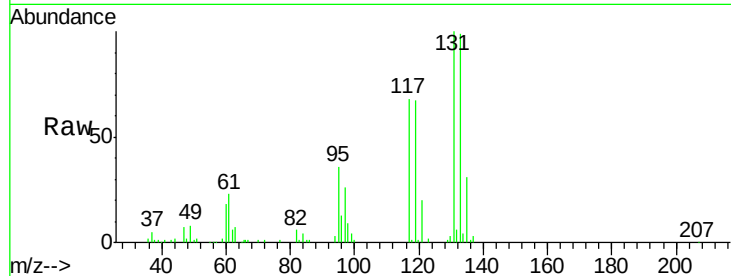
Tot Ion:131 Resp: 50383

Ion Ratio Lower Upper

131 100

133 97.9 77.3 115.9

119 67.4 48.9 73.3



#68

1,2-Dichlorobenzene-d4

Concen: N.D. ug/l

RT: 11.86 min Scan# 3349

Delta R.T. -0.00 min

Lab File: VU029382.D

Acq: 08 Feb 2019 16:51

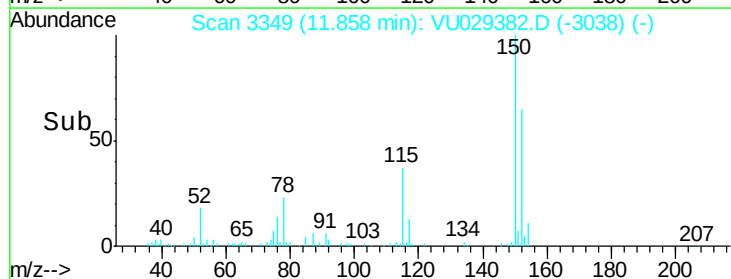
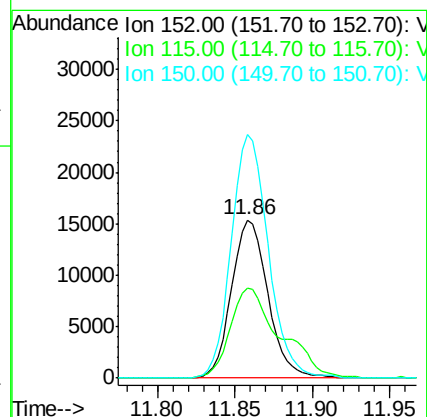
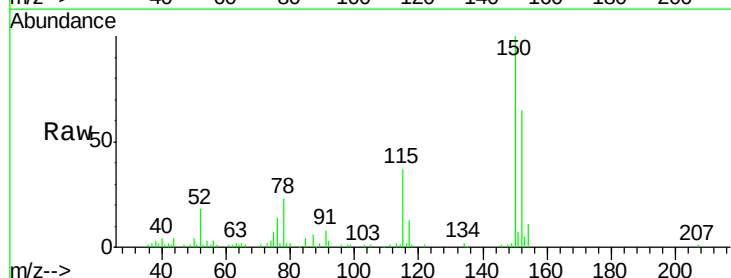
Tgt Ion:152 Resp: 25062

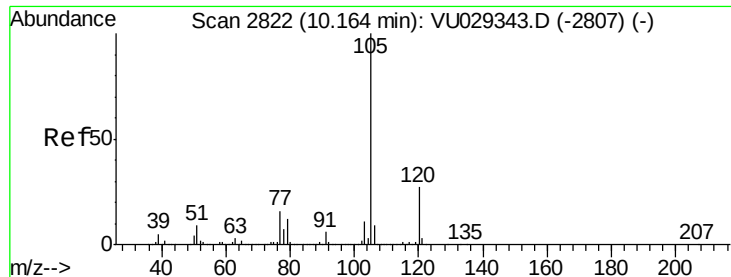
Ion Ratio Lower Upper

152 100

115 78.2 0.0 133.4

150 157.1 0.0 670.8





#69

Isopropylbenzene

Concen: 1.213 ug/l

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU029382.D

Acq: 08 Feb 2019 16:51

Instrument :

MSVOA_U

ClientSampleId :

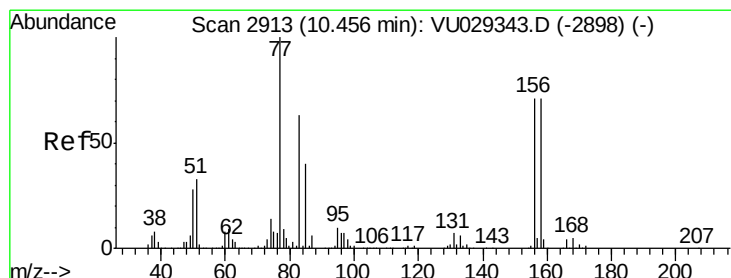
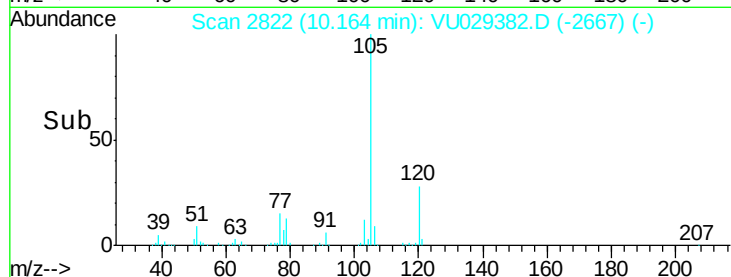
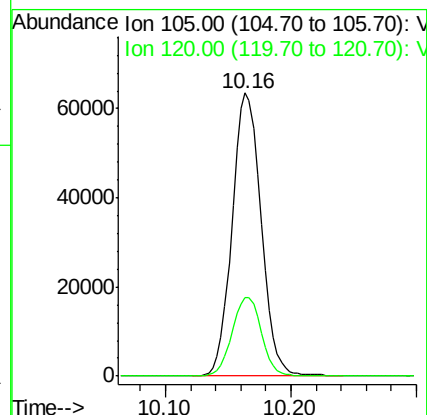
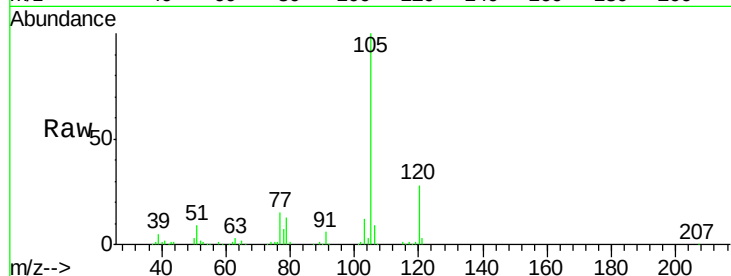
PT-UNRVOA-WSDL

Tot Ion:105 Resp: 102067

Ion Ratio Lower Upper

105 100

120 28.1 12.6 37.6



#70

1,1,2,2-Tetrachloroethane

Concen: 3.222 ug/l

RT: 10.46 min Scan# 2913

Delta R.T. -0.00 min

Lab File: VU029382.D

Acq: 08 Feb 2019 16:51

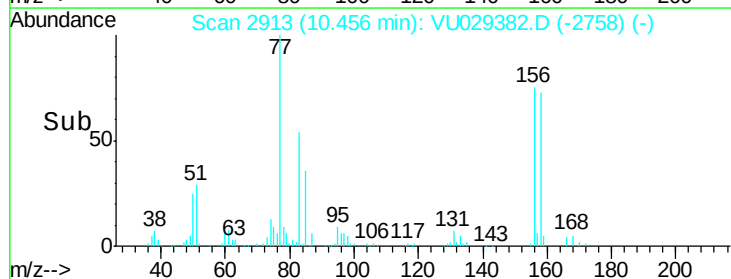
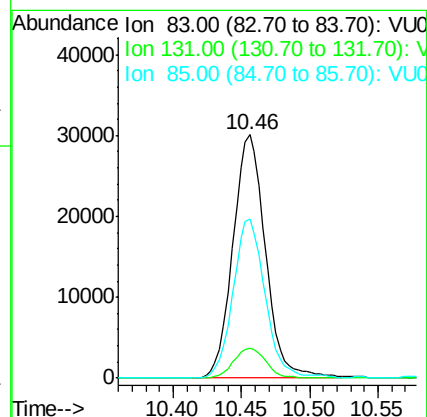
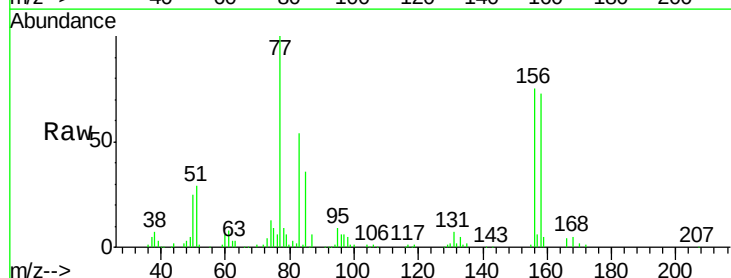
Tgt Ion: 83 Resp: 49989

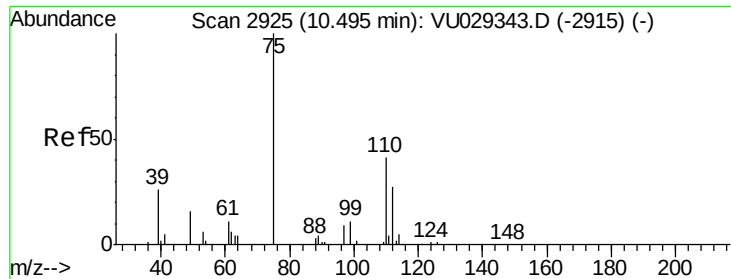
Ion Ratio Lower Upper

83 100

131 12.0 8.1 12.1

85 64.4 50.3 75.5

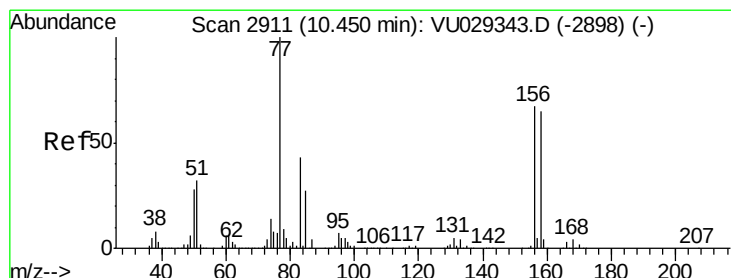
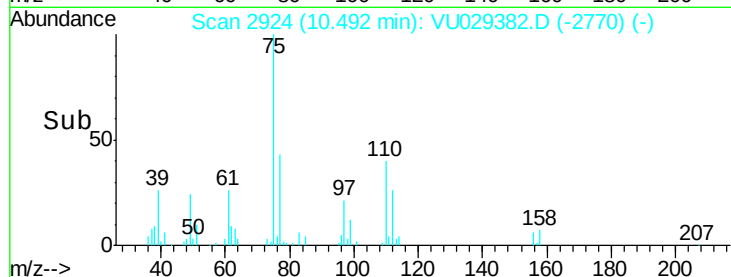
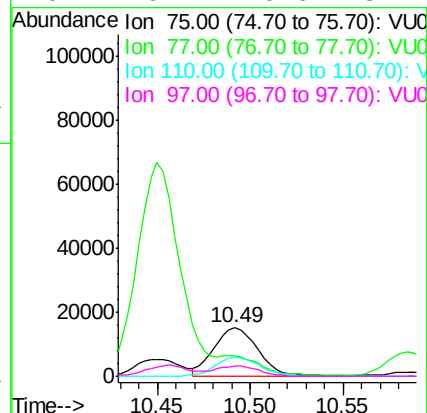
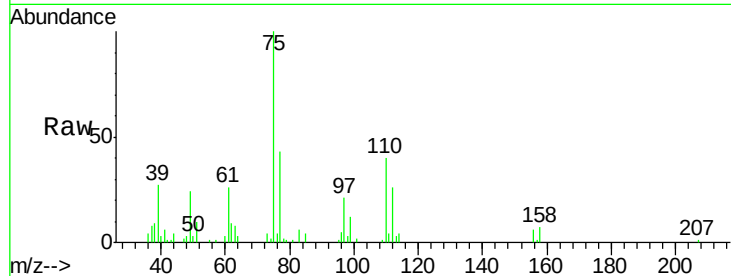




#71
 1,2,3-Trichloropropane
 Concen: 2.367 ug/l
 RT: 10.49 min Scan# 2924
 Delta R.T. -0.00 min
 Lab File: VU029382.D
 Acq: 08 Feb 2019 16:51

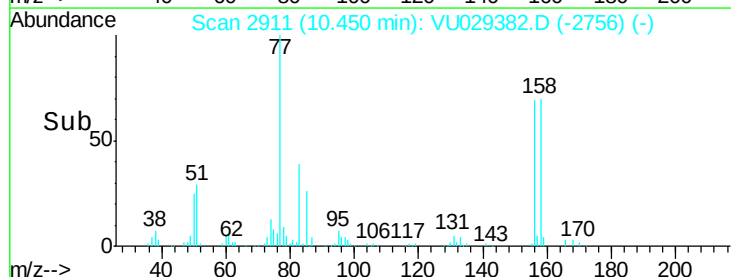
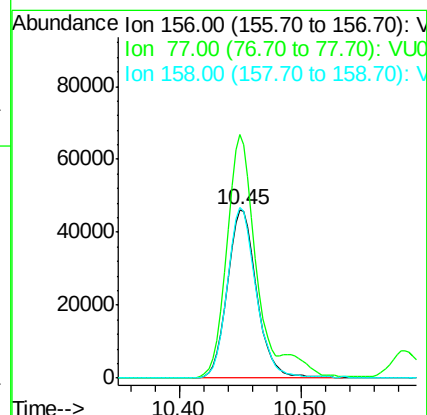
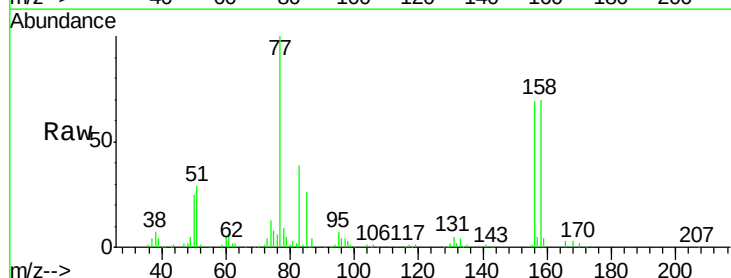
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WSDL

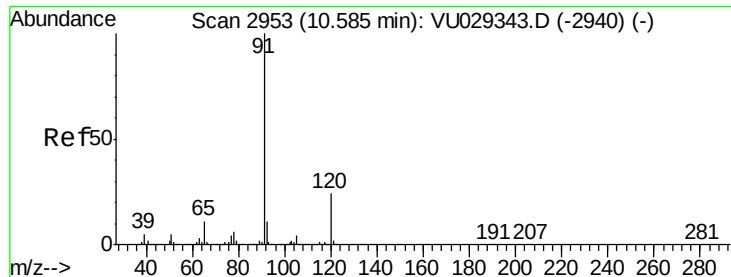
Tot Ion:	75	Resp:	25216
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0
110	39.3	0.0	63.6
97	20.7	0.0	31.4



#72
 Bromobenzene
 Concen: 3.837 ug/l
 RT: 10.45 min Scan# 2911
 Delta R.T. -0.00 min
 Lab File: VU029382.D
 Acq: 08 Feb 2019 16:51

Tgt Ion:	156	Resp:	78267
Ion	Ratio	Lower	Upper
156	100		
77	137.4	0.0	343.8
158	99.2	0.0	195.0





#73

n-propylbenzene

Concen: 3.132 ug/l

RT: 10.58 min Scan# 2953

Delta R.T. -0.00 min

Lab File: VU029382.D

Acq: 08 Feb 2019 16:51

Instrument :

MSVOA_U

ClientSampleId :

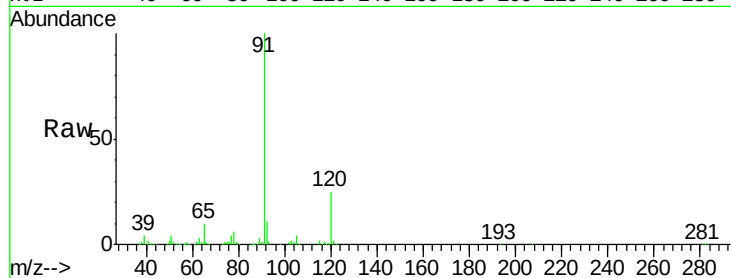
PT-UNRVOA-WSDL

Tot Ion:120 Resp: 73406

Ion Ratio Lower Upper

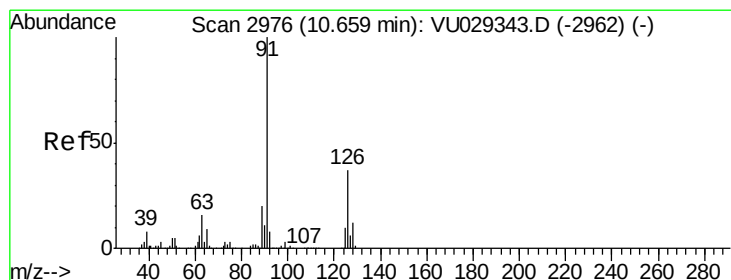
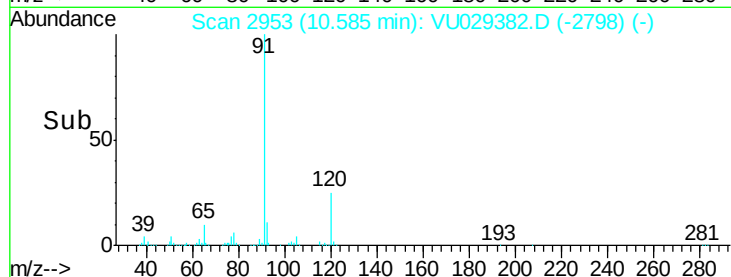
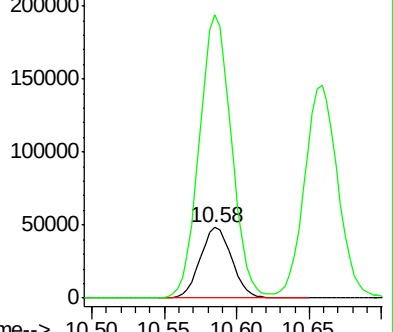
120 100

91 407.3 370.0 555.0



Abundance Ion 120.00 (119.70 to 120.70): V

Ion 91.00 (90.70 to 91.70): VU0



#74

2-Chlorotoluene

Concen: 4.344 ug/l

RT: 10.66 min Scan# 2976

Delta R.T. -0.00 min

Lab File: VU029382.D

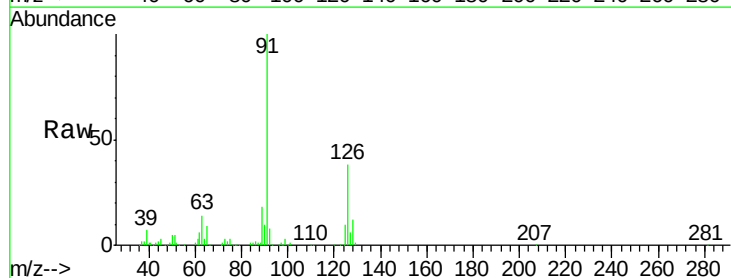
Acq: 08 Feb 2019 16:51

Tgt Ion:126 Resp: 86695

Ion Ratio Lower Upper

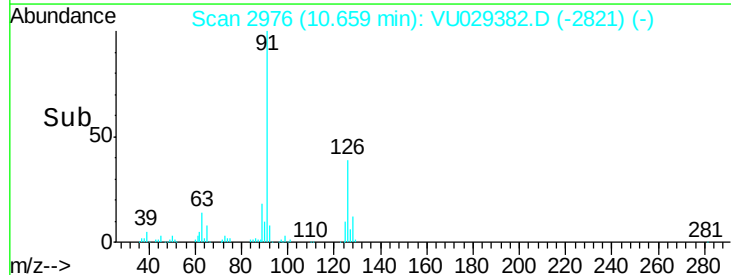
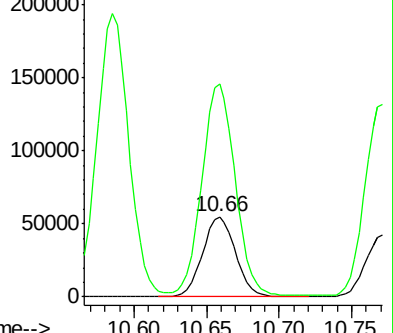
126 100

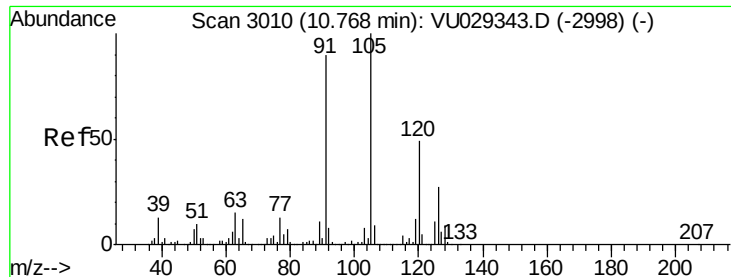
91 265.8 0.0 643.0



Abundance Ion 126.00 (125.70 to 126.70): V

Ion 91.00 (90.70 to 91.70): VU0





#75

1,3,5-Trimethylbenzene

Concen: 3.546 ug/l

RT: 10.77 min Scan# 3010

Delta R.T. -0.00 min

Lab File: VU029382.D

Acq: 08 Feb 2019 16:51

Instrument :

MSVOA_U

ClientSampleId :

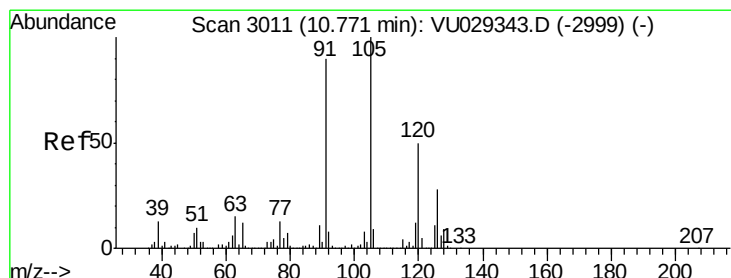
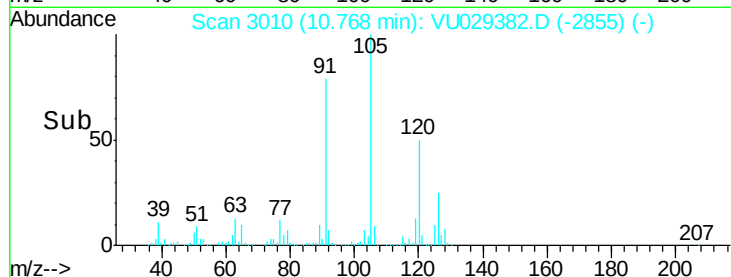
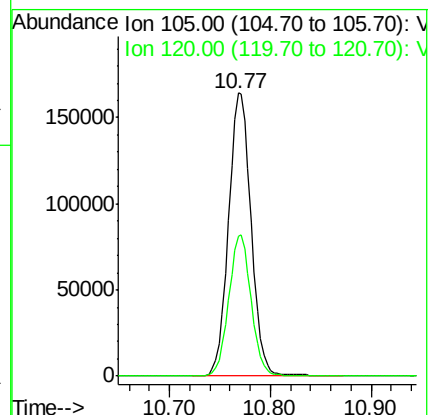
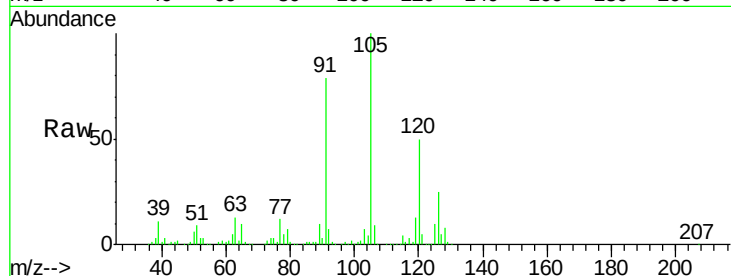
PT-UNRVOA-WSDL

Tot Ion:105 Resp: 257216

Ion Ratio Lower Upper

105 100

120 49.5 37.3 55.9



#76

4-Chlorotoluene

Concen: 3.217 ug/l

RT: 10.77 min Scan# 3011

Delta R.T. -0.00 min

Lab File: VU029382.D

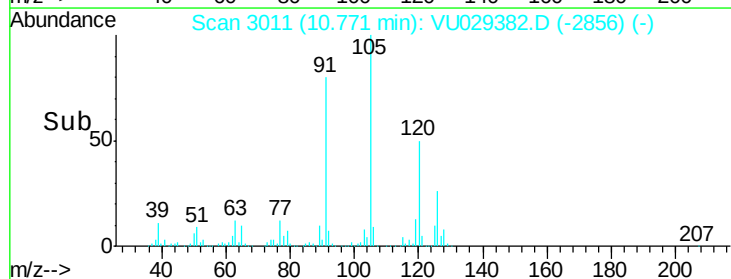
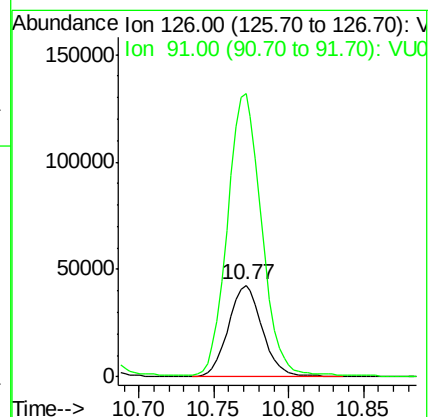
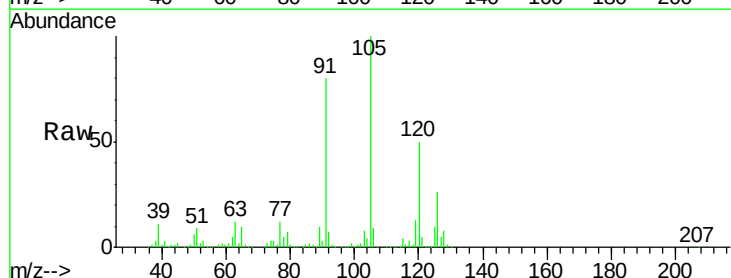
Acq: 08 Feb 2019 16:51

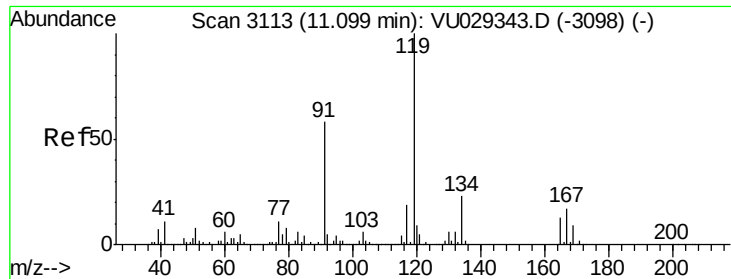
Tgt Ion:126 Resp: 66636

Ion Ratio Lower Upper

126 100

91 314.2 0.0 727.4





#77

tert-Butylbenzene

Concen: 3.684 ug/l

RT: 11.10 min Scan# 3112

Delta R.T. -0.00 min

Lab File: VU029382.D

Acq: 08 Feb 2019 16:51

Instrument :

MSVOA_U

ClientSampleId :

PT-UNRVOA-WSDL

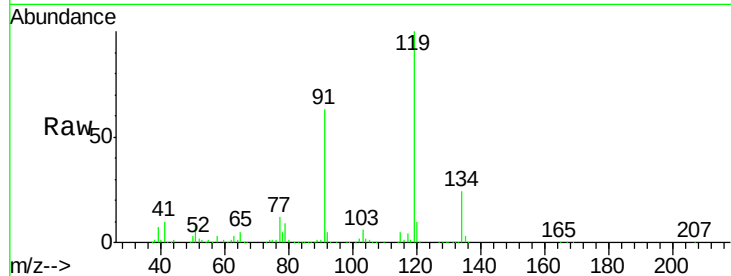
Tot Ion:119 Resp: 264187

Ion Ratio Lower Upper

119 100

91 63.4 32.2 96.6

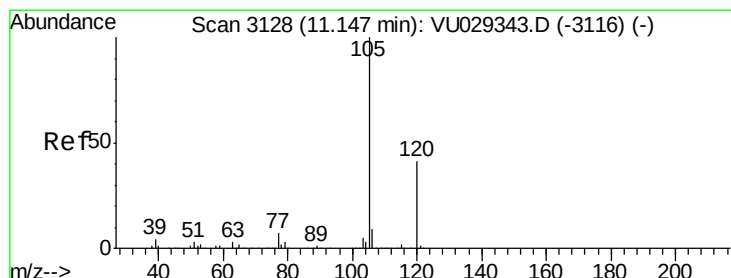
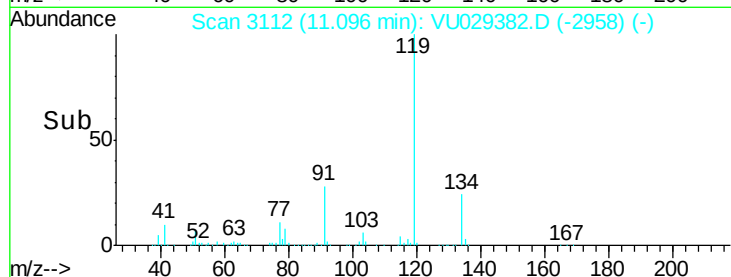
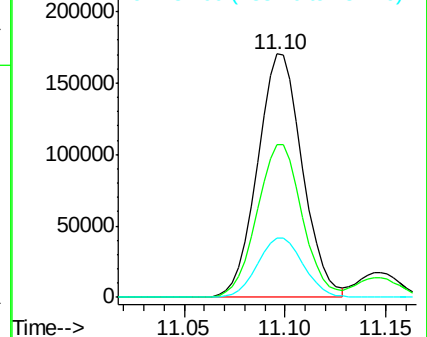
134 24.9 17.6 26.4



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VU0

Ion 134.00 (133.70 to 134.70): V



#78

1,2,4-Trimethylbenzene

Concen: 2.930 ug/l

RT: 11.15 min Scan# 3128

Delta R.T. -0.00 min

Lab File: VU029382.D

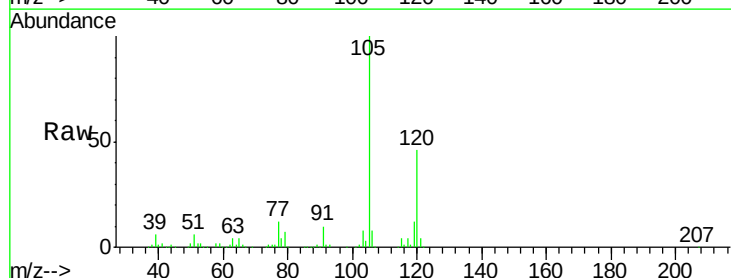
Acq: 08 Feb 2019 16:51

Tgt Ion:105 Resp: 215188

Ion Ratio Lower Upper

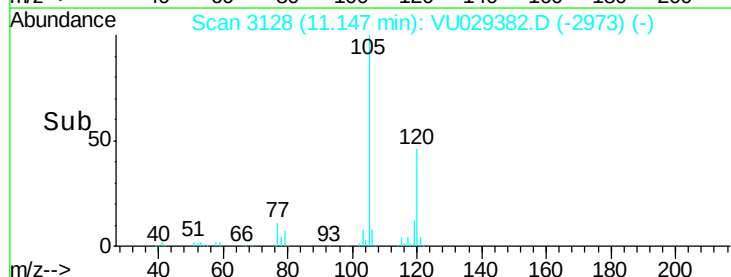
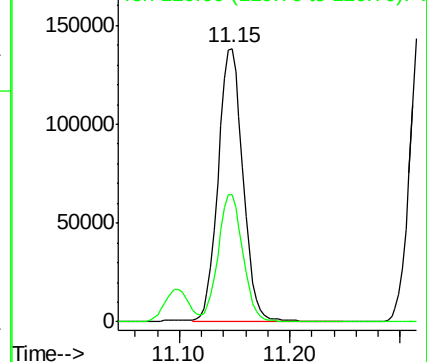
105 100

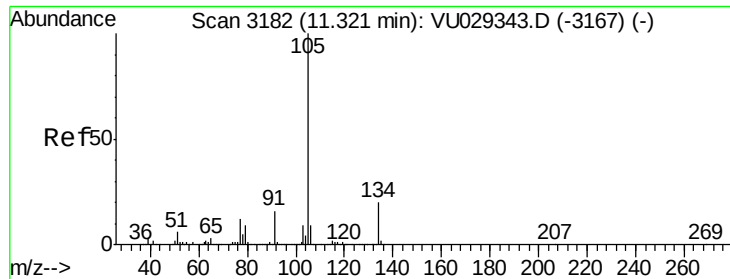
120 46.8 21.4 64.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#79

sec-Butylbenzene

Concen: 2.969 ug/l

RT: 11.32 min Scan# 3182

Delta R.T. -0.00 min

Lab File: VU029382.D

Acq: 08 Feb 2019 16:51

Instrument :

MSVOA_U

ClientSampleId :

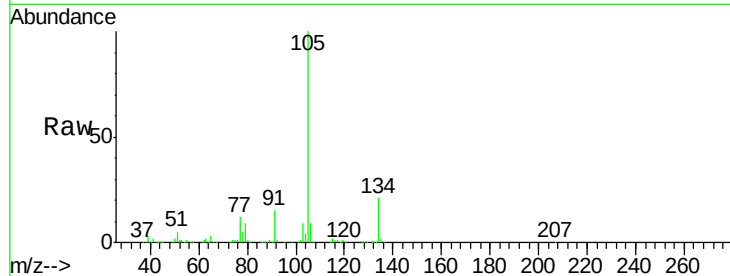
PT-UNRVOA-WSDL

Tot Ion:105 Resp: 278551

Ion Ratio Lower Upper

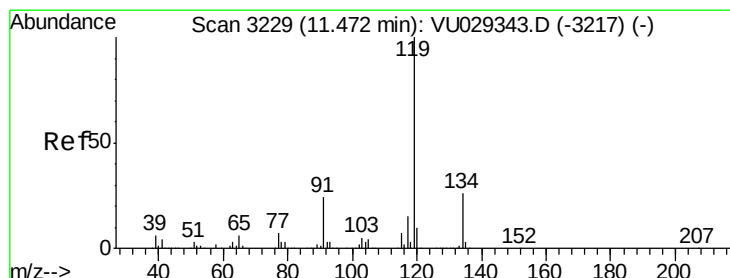
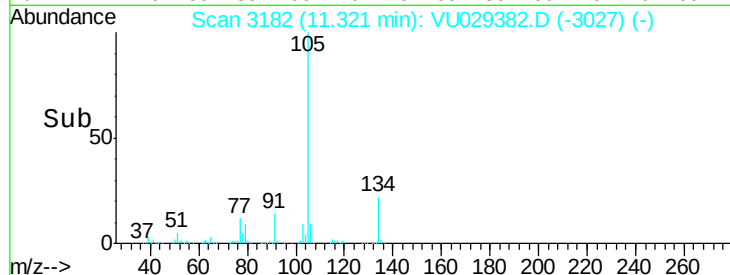
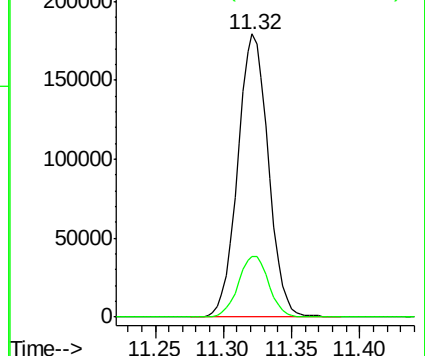
105 100

134 21.6 15.0 22.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#81

p-Isopropyltoluene

Concen: 3.207 ug/l

RT: 11.48 min Scan# 3230

Delta R.T. 0.00 min

Lab File: VU029382.D

Acq: 08 Feb 2019 16:51

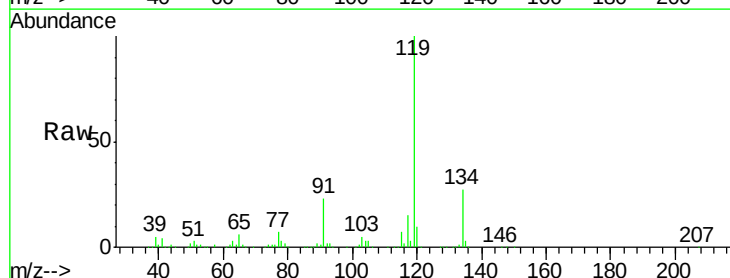
Tgt Ion:119 Resp: 255045

Ion Ratio Lower Upper

119 100

134 27.5 19.8 29.6

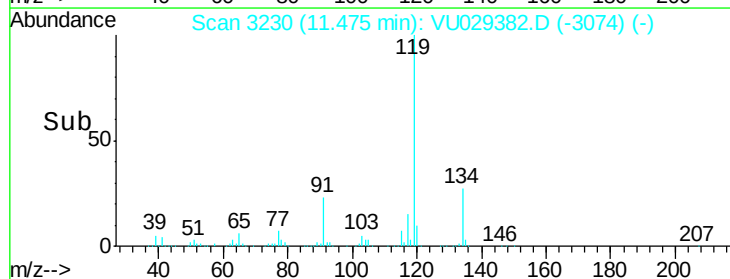
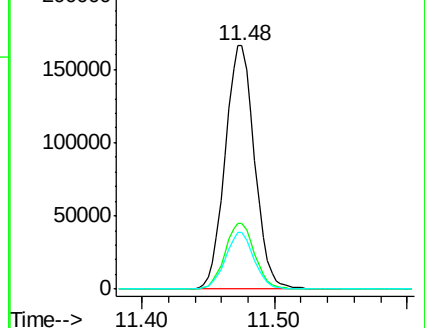
91 23.0 21.5 32.3

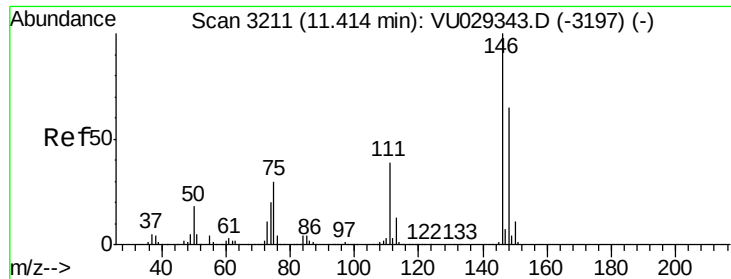


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VU0





#82

1,3-Dichlorobenzene

Concen: 3.507 ug/l

RT: 11.41 min Scan# 3211

Delta R.T. -0.00 min

Lab File: VU029382.D

Acq: 08 Feb 2019 16:51

Instrument :

MSVOA_U

ClientSampleId :

PT-UNRVOA-WSDL

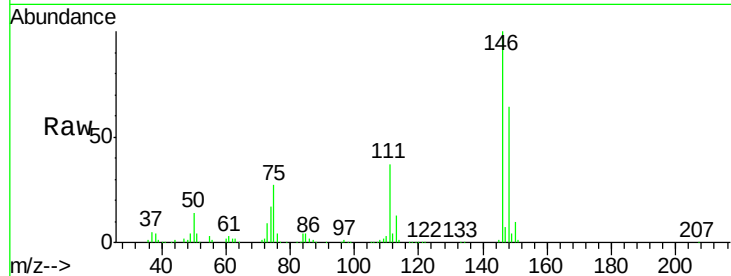
Tot Ion:146 Resp: 140315

Ion Ratio Lower Upper

146 100

111 37.2 34.1 51.1

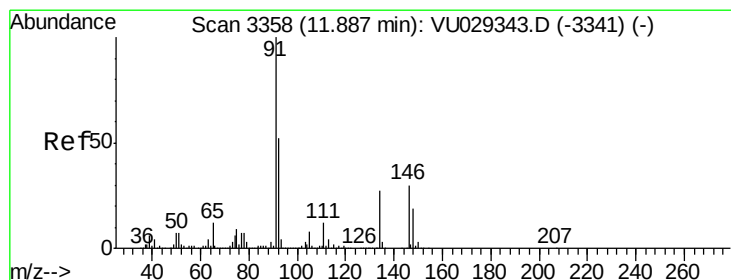
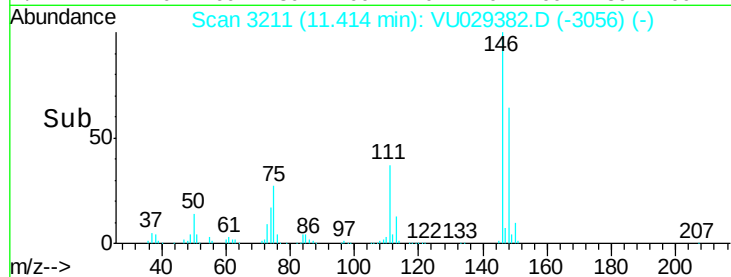
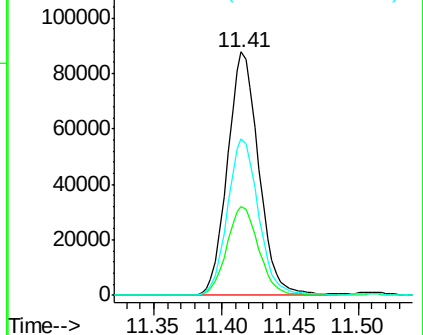
148 63.9 52.3 78.5



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



#84

n-Butylbenzene

Concen: 3.151 ug/l

RT: 11.89 min Scan# 3358

Delta R.T. -0.00 min

Lab File: VU029382.D

Acq: 08 Feb 2019 16:51

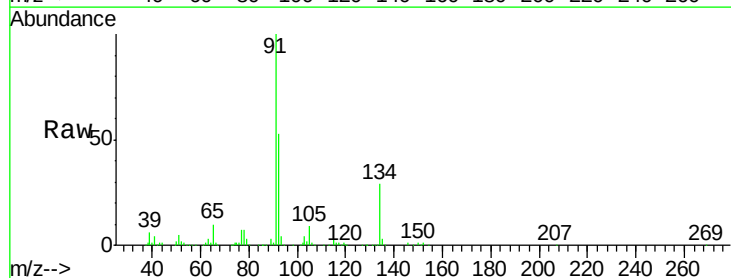
Tgt Ion: 91 Resp: 229951

Ion Ratio Lower Upper

91 100

92 52.9 41.0 61.6

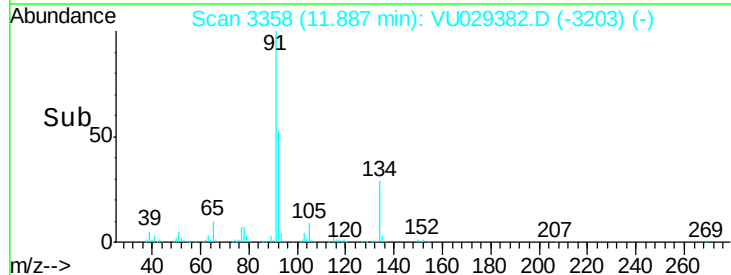
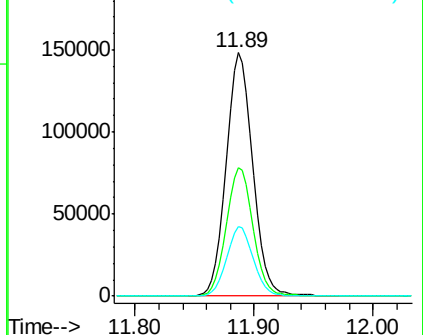
134 28.4 19.1 28.7

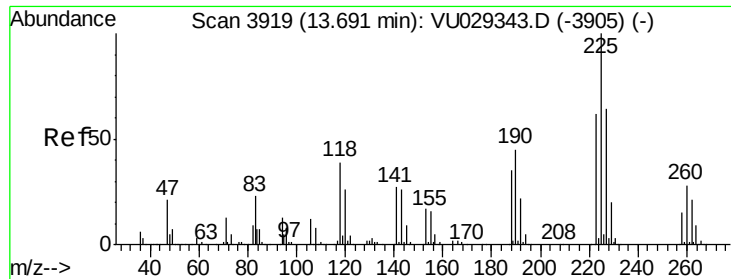


Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0

Ion 134.00 (133.70 to 134.70): V





#88

Hexachlorobutadiene

Concen: 6.679 ug/l

RT: 13.69 min Scan# 3919

Delta R.T. -0.00 min

Lab File: VU029382.D

Acq: 08 Feb 2019 16:51

Instrument :

MSVOA_U

ClientSampleId :

PT-UNRVOA-WSDL

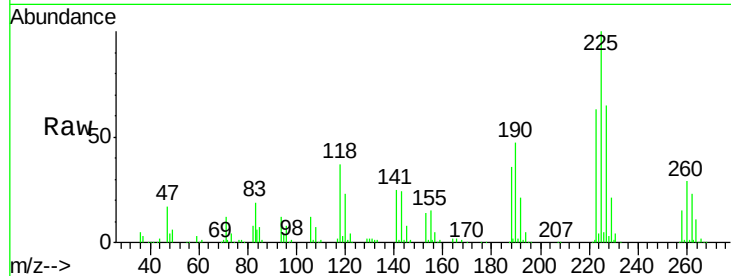
Tot Ion:225 Resp: 102797

Ion Ratio Lower Upper

225 100

223 63.1 49.5 74.3

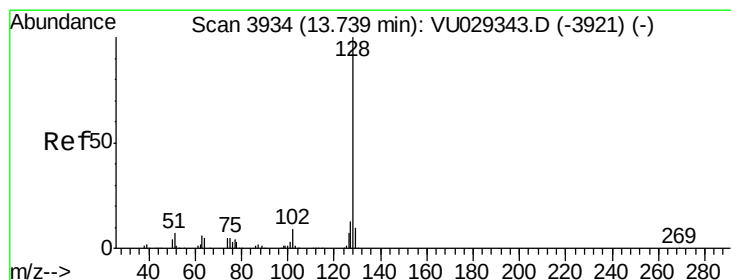
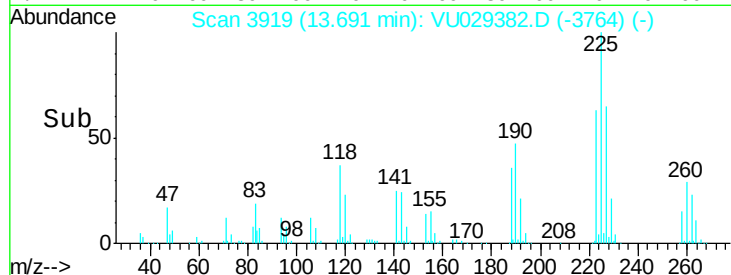
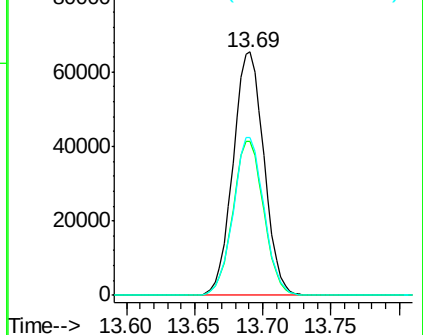
227 64.1 50.4 75.6



Abundance Ion 224.60 (224.30 to 225.30): V

Ion 222.60 (222.30 to 223.30): V

Ion 226.60 (226.30 to 227.30): V



#89

Naphthalene

Concen: 3.927 ug/l

RT: 13.74 min Scan# 3935

Delta R.T. 0.00 min

Lab File: VU029382.D

Acq: 08 Feb 2019 16:51

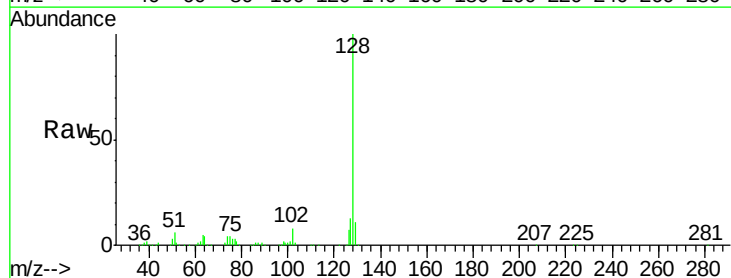
Tgt Ion:128 Resp: 176993

Ion Ratio Lower Upper

128 100

127 13.3 10.7 16.1

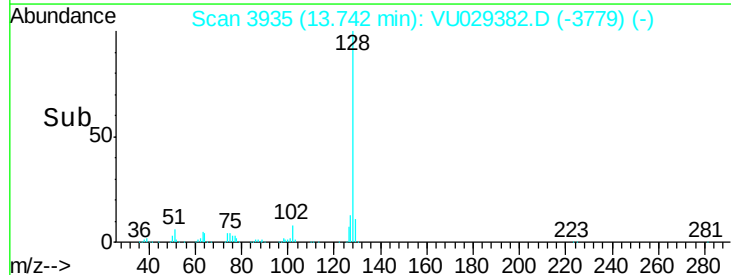
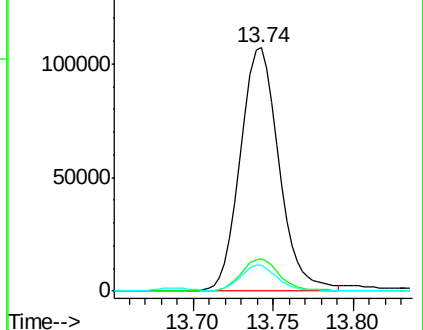
129 9.9 8.2 12.4

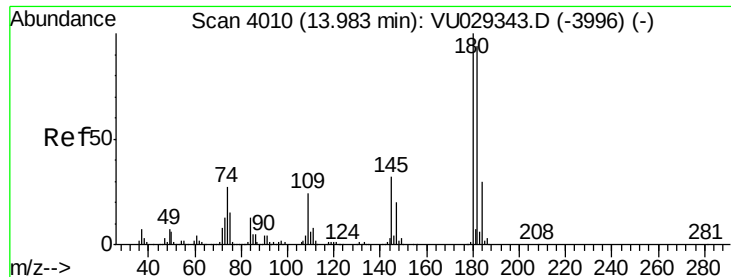


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

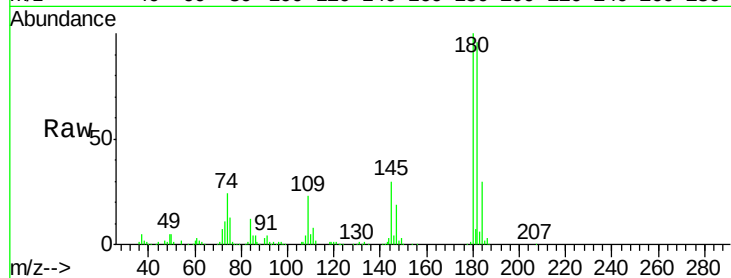




#90
 1,2,3-Trichlorobenzene
 Concen: 10.271 ug/l
 RT: 13.98 min Scan# 4010
 Delta R.T. -0.00 min
 Lab File: VU029382.D
 Acq: 08 Feb 2019 16:51

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WSDL

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.1	78.0	117.0
145	30.5	26.6	39.8



Abundance

Ion 179.70 (179.40 to 180.40): V

Ion 181.70 (181.40 to 182.40): V

Ion 144.80 (144.50 to 145.50): V

