

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU012320\
 Data File : VU036539.D
 Acq On : 23 Jan 2020 14:34
 Operator : JC/MD
 Sample : L1134-08DL 5X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WSDL

Quant Time: Jan 24 02:35:50 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U012220DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Thu Jan 23 08:59:25 2020
 Response via : Initial Calibration

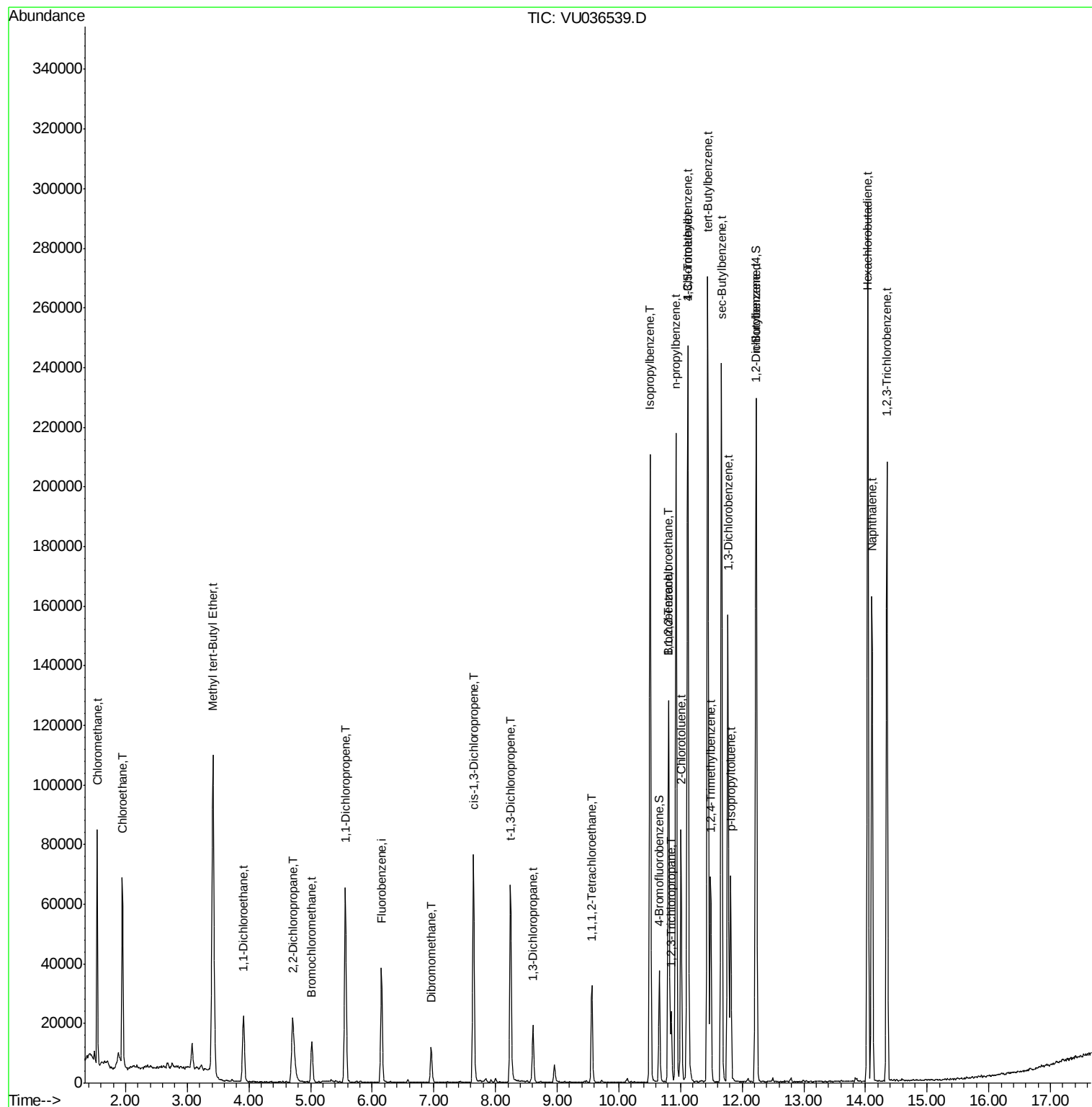
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	6.15	96	37414	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.66	95	13499	0.96	ug/l	0.00
Spiked Amount 1.000			Recovery	=	96.00%	
68) 1,2-Dichlorobenzene-d4	12.21	152	14210	0.98	ug/l	0.00
Spiked Amount 1.000			Recovery	=	98.00%	
Target Compounds						Ovalue
3) Chloromethane	1.54	50	54938	4.143	ug/l	97
6) Chloroethane	1.95	64	42793	4.810	ug/l	99
17) 1,1-Dichloroethane	3.91	63	26031	1.472	ug/l	98
21) 2,2-Dichloropropane	4.71	77	16541	1.096	ug/l	94
25) Methyl tert-Butyl Ether	3.42	73	129216	5.012	ug/l	97
26) Bromochloromethane	5.02	128	4700	0.964	ug/l	93
29) 1,1-Dichloropropene	5.57	75	36744	2.567	ug/l	100
43) Dibromomethane	6.96	93	4625	0.850	ug/l	97
50) t-1,3-Dichloropropene	8.24	75	40063	3.124	ug/l	96
51) cis-1,3-Dichloropropene	7.64	75	49395	3.178	ug/l	98
53) 1,3-Dichloropropane	8.61	76	12407	0.938	ug/l	100
60) 1,1,1,2-Tetrachloroethane	9.56	131	8858	0.941	ug/l	99
69) Isopropylbenzene	10.51	105	141065	2.836	ug/l	100
70) 1,1,2,2-Tetrachloroethane	10.81	83	23689	2.432	ug/l	97
71) 1,2,3-Trichloropropane	10.85	75	9103	1.310	ug/l #	55
72) Bromobenzene	10.81	156	25469	2.125	ug/l	99
73) n-propylbenzene	10.93	120	39556	2.834	ug/l	91
74) 2-Chlorotoluene	11.01	126	16902	1.410	ug/l	92
75) 1,3,5-Trimethylbenzene	11.11	105	58589	1.373	ug/l	99
76) 4-Chlorotoluene	11.12	126	36093	2.914	ug/l	99
77) tert-Butylbenzene	11.44	119	138370	3.423	ug/l	94
78) 1,2,4-Trimethylbenzene	11.49	105	38586	0.877	ug/l	100
79) sec-Butylbenzene	11.66	105	170189	3.034	ug/l	100
81) p-Isopropyltoluene	11.81	119	39205	0.836	ug/l	100
82) 1,3-Dichlorobenzene	11.77	146	70009	2.920	ug/l	100
84) n-Butylbenzene	12.23	91	117482	2.710	ug/l	99
88) Hexachlorobutadiene	14.04	225	56321	7.002	ug/l	98
89) Naphthalene	14.10	128	136320	5.391	ug/l	99
90) 1,2,3-Trichlorobenzene	14.35	180	64865	4.699	ug/l	99
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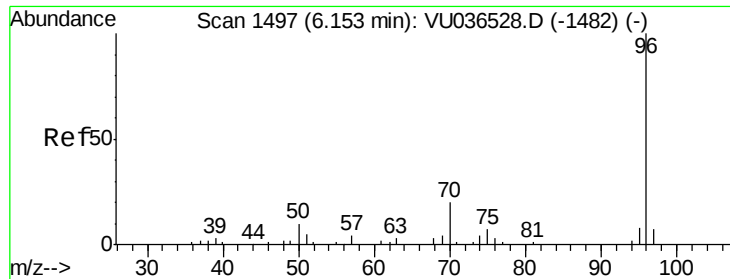
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA U\METHOD\524U012220DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jan 23 08:59:25 2020
Response via : Initial Calibration





#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 6.15 min Scan# 1497

Delta R.T. 0.00 min

Lab File: VU036539.D

Acq: 23 Jan 2020 14:34

Instrument :

MSVOA_U

ClientSampleId :

PT-UNRVOA-WSDL

Tot Ion: 96 Resp: 37414

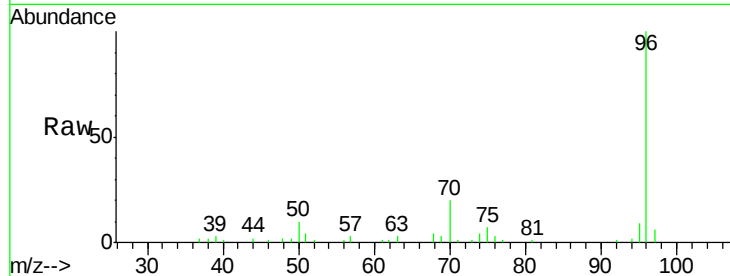
Ion Ratio Lower Upper

96 100

70 19.0 15.6 23.4

95 9.1 7.0 10.6

97 6.5 0.0 0.0#

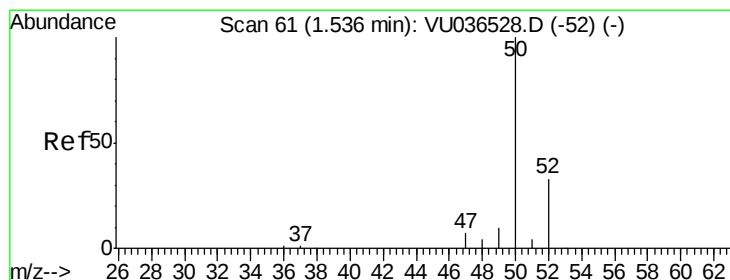
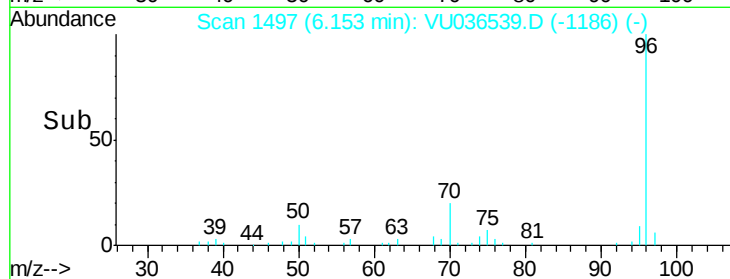
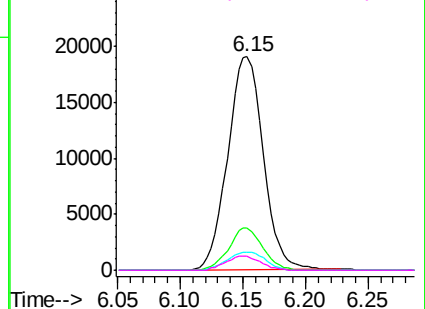


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0



#3

Chloromethane

Concen: 4.143 ug/l

RT: 1.54 min Scan# 62

Delta R.T. 0.00 min

Lab File: VU036539.D

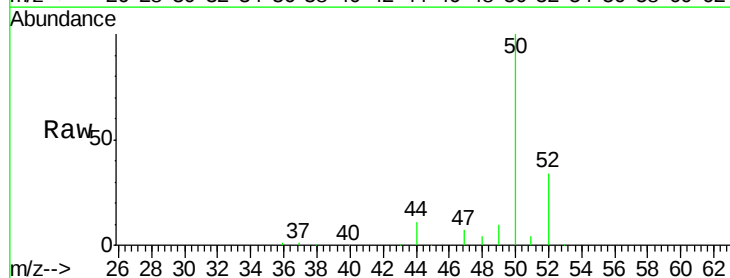
Acq: 23 Jan 2020 14:34

Tgt Ion: 50 Resp: 54938

Ion Ratio Lower Upper

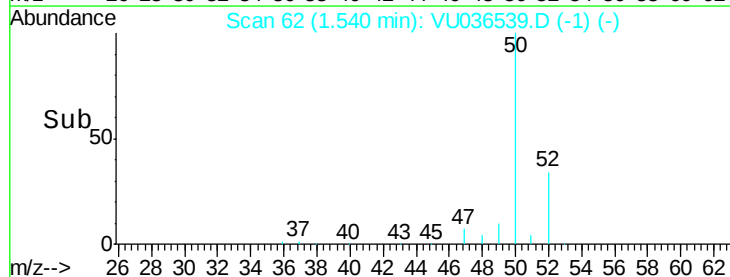
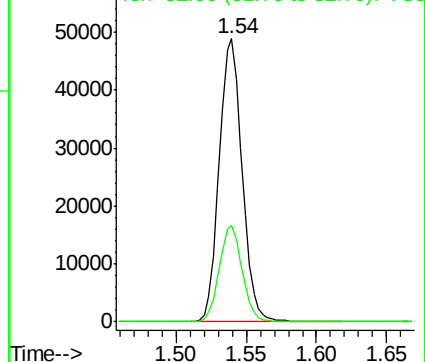
50 100

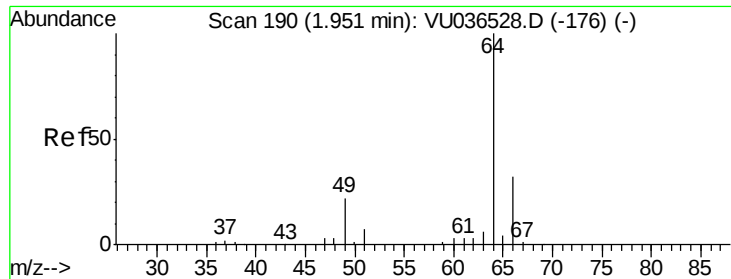
52 34.2 26.0 39.0



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#6

Chloroethane

Concen: 4.810 ug/l

RT: 1.95 min Scan# 189

Delta R.T. -0.00 min

Lab File: VU036539.D

Acq: 23 Jan 2020 14:34

Instrument :

MSVOA_U

ClientSampleId :

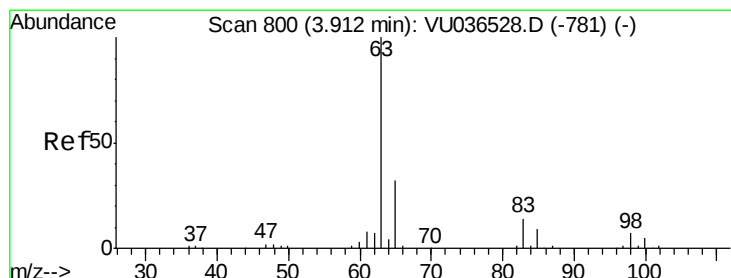
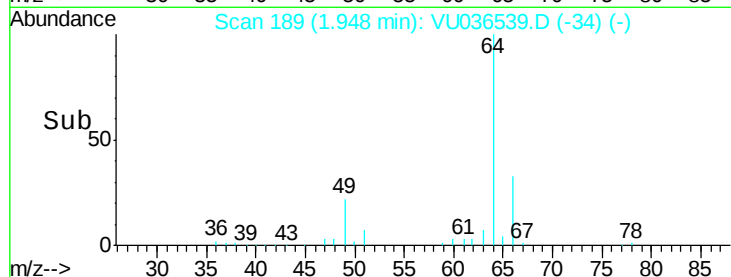
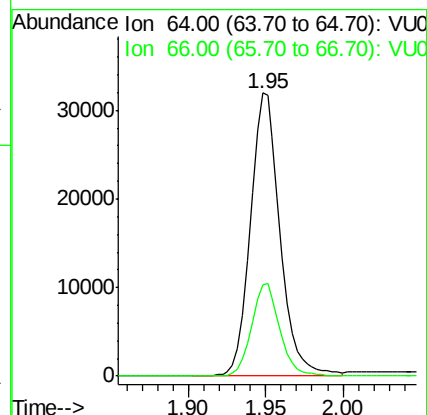
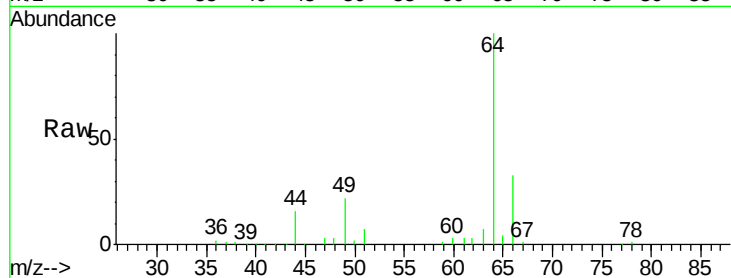
PT-UNRVOA-WSDL

Tot Ion: 64 Resp: 42793

Ion Ratio Lower Upper

64 100

66 32.5 25.5 38.3



#17

1,1-Dichloroethane

Concen: 1.472 ug/l

RT: 3.91 min Scan# 800

Delta R.T. 0.00 min

Lab File: VU036539.D

Acq: 23 Jan 2020 14:34

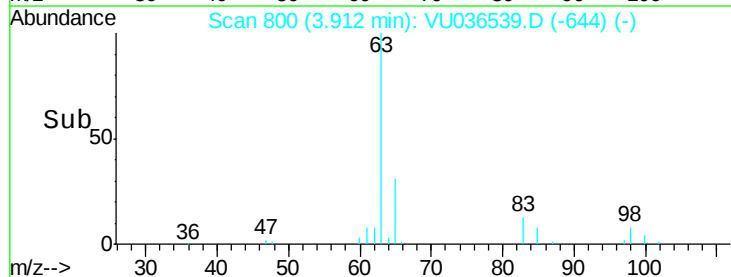
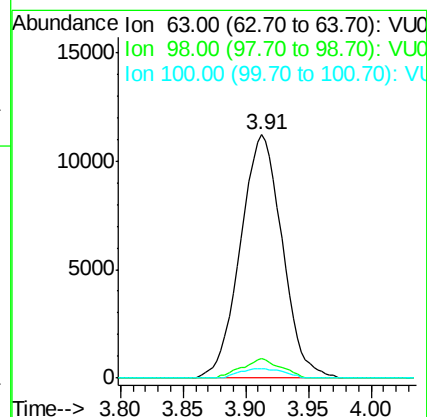
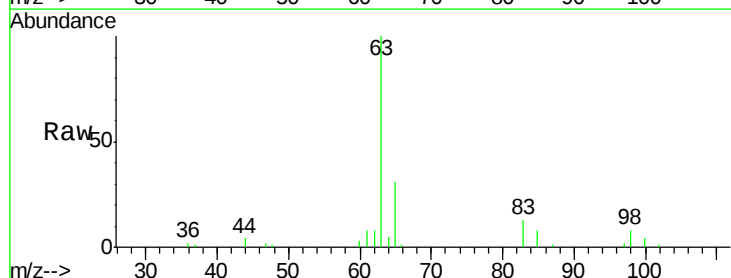
Tgt Ion: 63 Resp: 26031

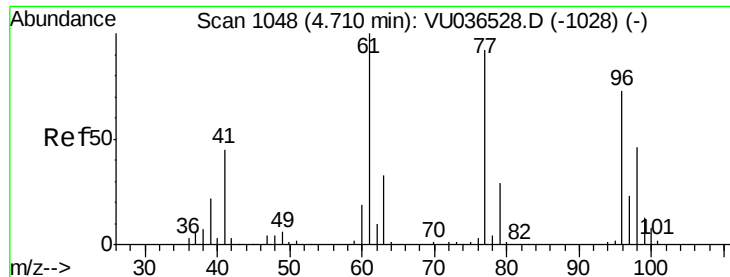
Ion Ratio Lower Upper

63 100

98 7.9 3.5 10.5

100 4.0 2.4 7.1

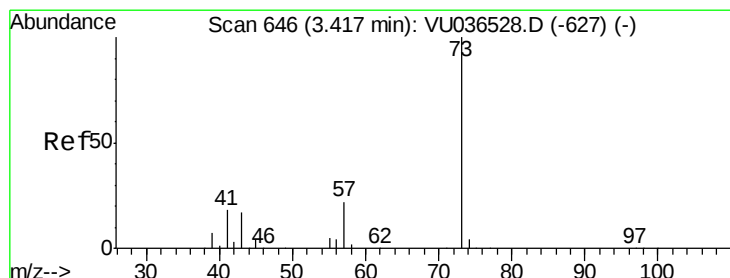
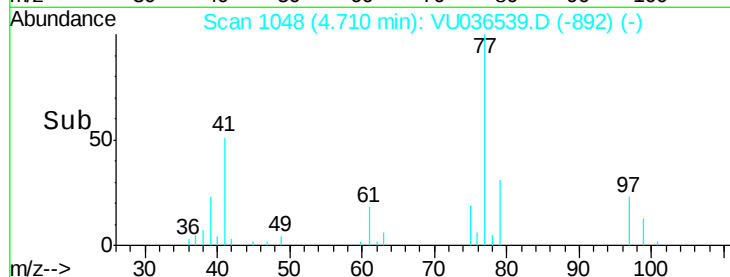
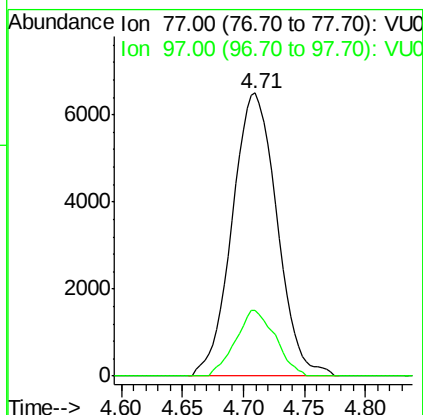
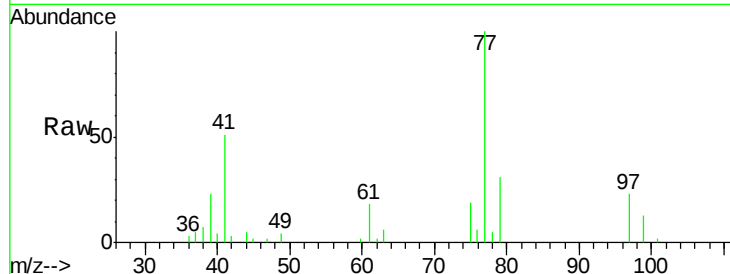




#21
 2,2-Dichloropropane
 Concen: 1.096 ug/l
 RT: 4.71 min Scan# 1048
 Delta R.T. 0.00 min
 Lab File: VU036539.D
 Acq: 23 Jan 2020 14:34

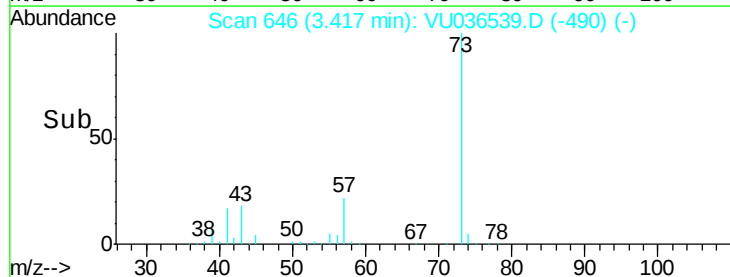
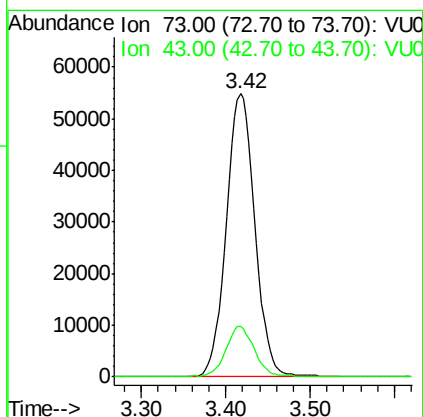
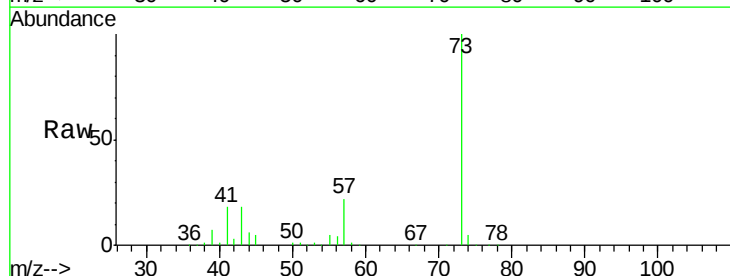
Instrument :
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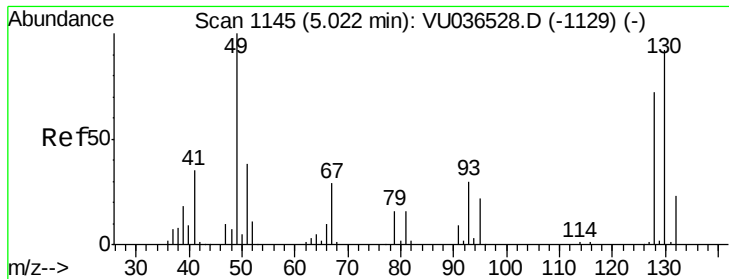
Tot Ion: 77 Resp: 16541
 Ion Ratio Lower Upper
 77 100
 97 20.7 19.0 28.4



#25
 Methyl tert-Butyl Ether
 Concen: 5.012 ug/l
 RT: 3.42 min Scan# 646
 Delta R.T. 0.00 min
 Lab File: VU036539.D
 Acq: 23 Jan 2020 14:34

Tgt Ion: 73 Resp: 129216
 Ion Ratio Lower Upper
 73 100
 43 16.7 14.5 21.7

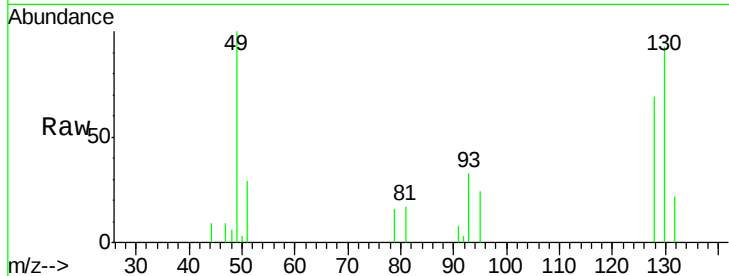




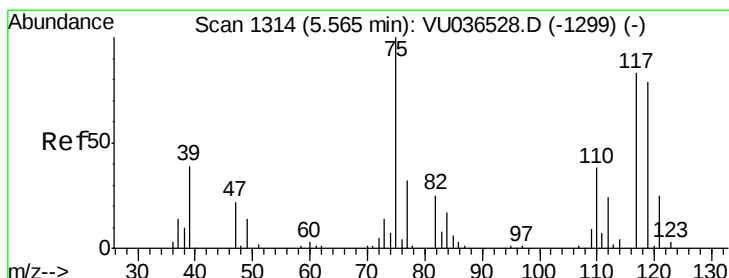
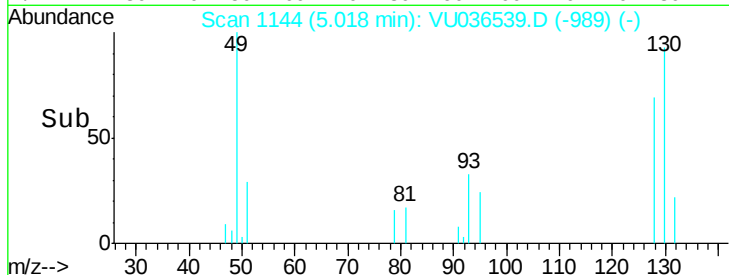
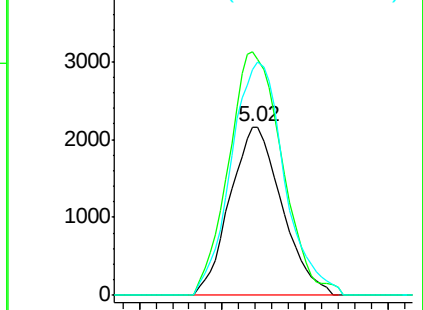
#26
 Bromochloromethane
 Concen: 0.964 ug/l
 RT: 5.02 min Scan# 1144
 Delta R.T. -0.00 min
 Lab File: VU036539.D
 Acq: 23 Jan 2020 14:34

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WSDL

Tot Ion:128 Resp: 4700
 Ion Ratio Lower Upper
 128 100
 49 149.1 0.0 286.2
 130 142.4 104.3 156.5

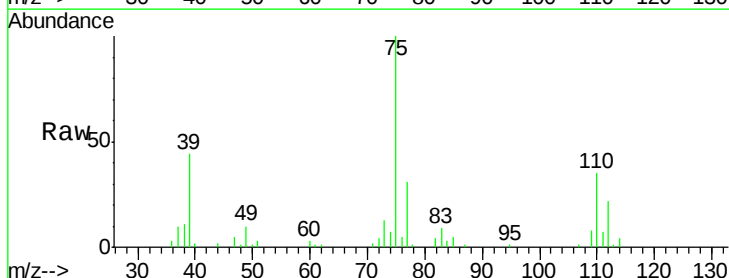


Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 49.00 (48.70 to 49.70): VU0
 Ion 130.00 (129.70 to 130.70): V

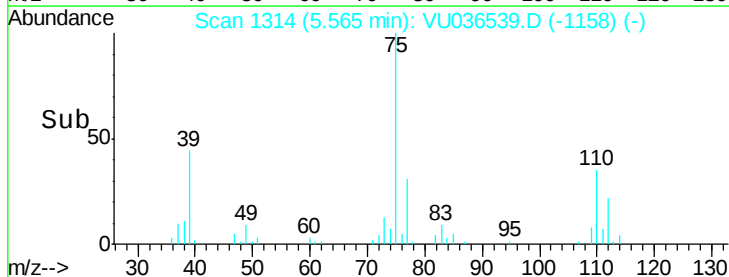
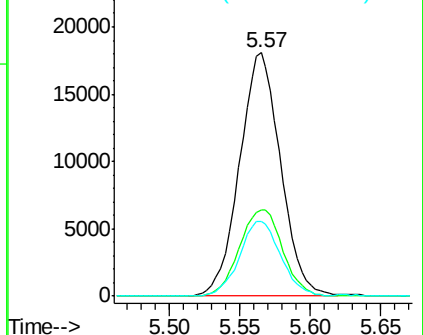


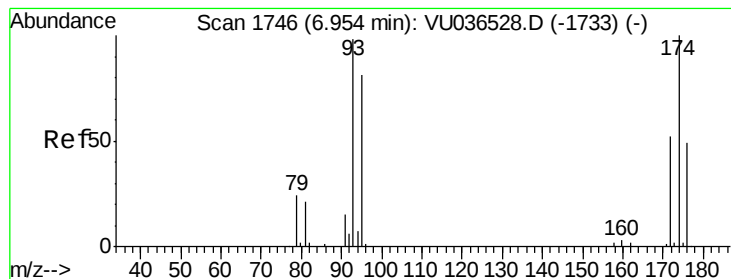
#29
 1,1-Dichloropropene
 Concen: 2.567 ug/l
 RT: 5.57 min Scan# 1314
 Delta R.T. 0.00 min
 Lab File: VU036539.D
 Acq: 23 Jan 2020 14:34

Tgt Ion: 75 Resp: 36744
 Ion Ratio Lower Upper
 75 100
 110 37.2 18.6 55.8
 77 30.9 25.0 37.4



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





#43

Dibromomethane

Concen: 0.850 ug/l

RT: 6.96 min Scan# 1747

Delta R.T. 0.00 min

Lab File: VU036539.D

Acq: 23 Jan 2020 14:34

Instrument :

MSVOA_U

ClientSampleId :

PT-UNRVOA-WSDL

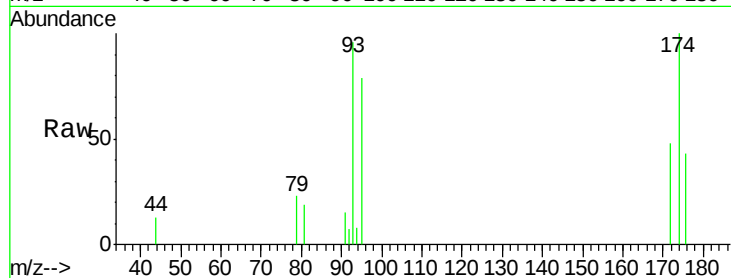
Tot Ion: 93 Resp: 4625

Ion Ratio Lower Upper

93 100

95 82.8 67.9 101.9

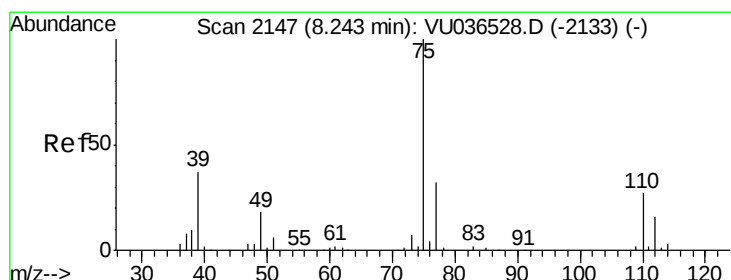
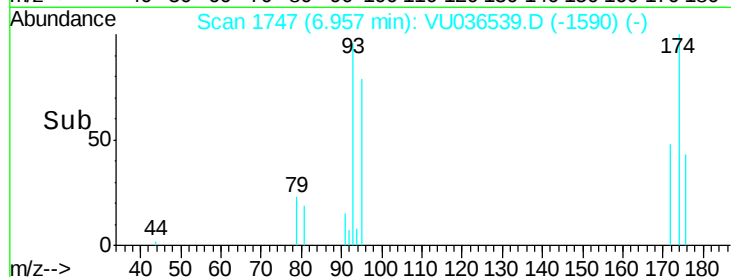
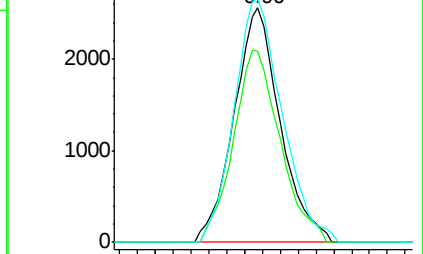
174 108.2 83.4 125.0



Abundance Ion 93.00 (92.70 to 93.70): VU036528.D (-1733) (-)

Ion 95.00 (94.70 to 95.70): VU036528.D (-1733) (-)

Ion 174.00 (173.70 to 174.70): VU036528.D (-1733) (-)



#50

t-1,3-Dichloropropene

Concen: 3.124 ug/l

RT: 8.24 min Scan# 2147

Delta R.T. 0.00 min

Lab File: VU036539.D

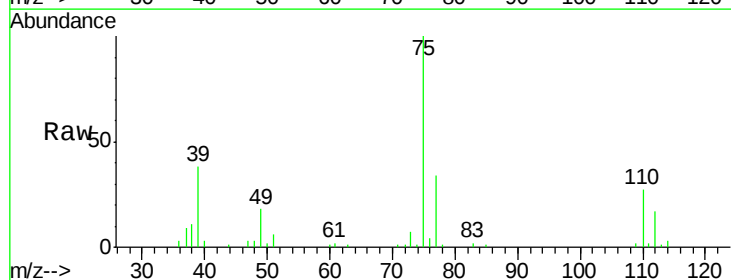
Acq: 23 Jan 2020 14:34

Tgt Ion: 75 Resp: 40063

Ion Ratio Lower Upper

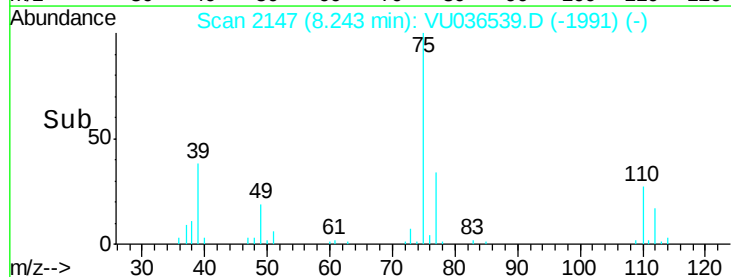
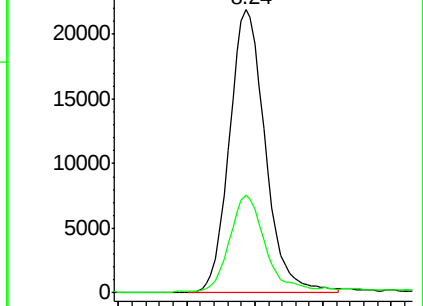
75 100

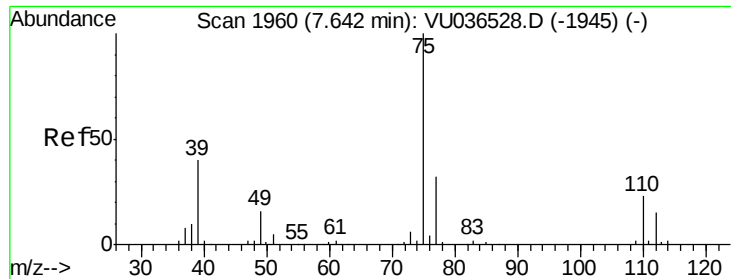
77 34.0 25.4 38.2



Abundance Ion 75.00 (74.70 to 75.70): VU036528.D (-2133) (-)

Ion 77.00 (76.70 to 77.70): VU036528.D (-2133) (-)



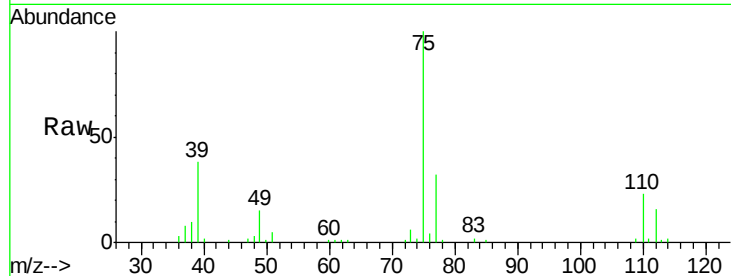


#51

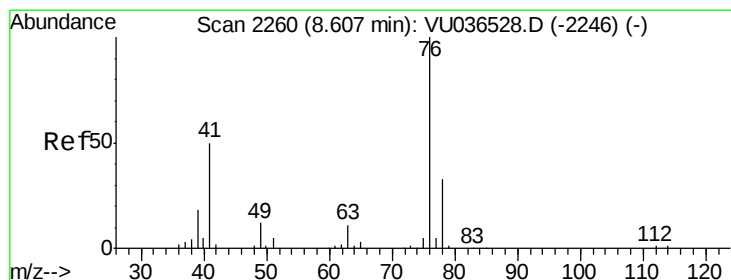
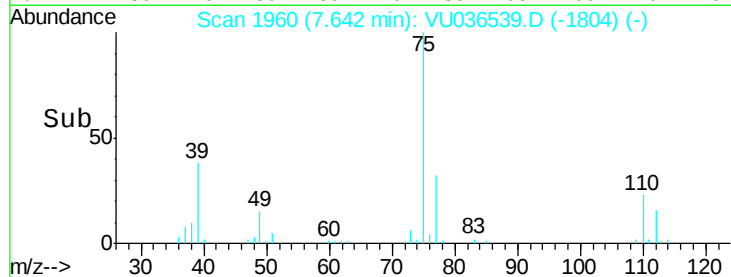
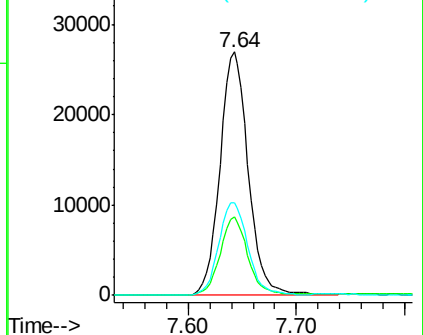
cis-1,3-Dichloropropene
 Concen: 3.178 ug/l
 RT: 7.64 min Scan# 1960
 Delta R.T. 0.00 min
 Lab File: VU036539.D
 Acq: 23 Jan 2020 14:34

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Tot Ion	75	Resp	49395
Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.3	37.9
39	38.2	31.8	47.6



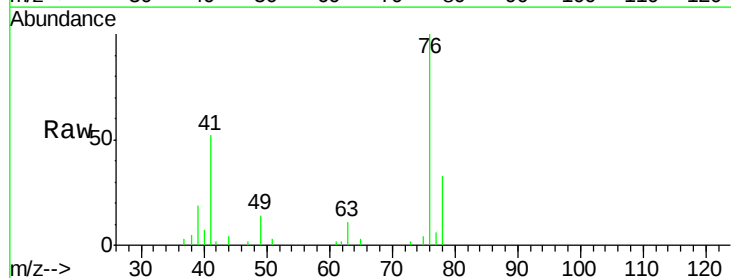
Abundance Ion 75.00 (74.70 to 75.70): VU0
 Ion 77.00 (76.70 to 77.70): VU0
 Ion 39.00 (38.70 to 39.70): VU0



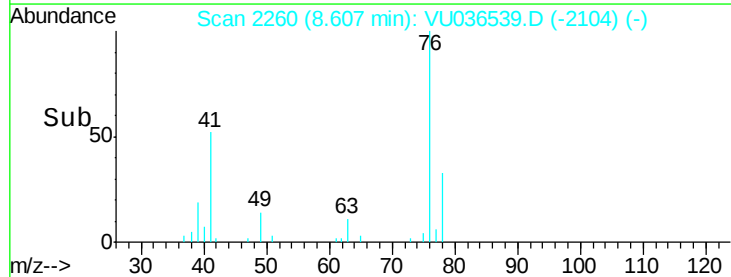
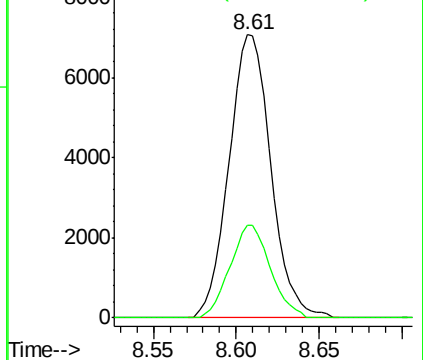
#53

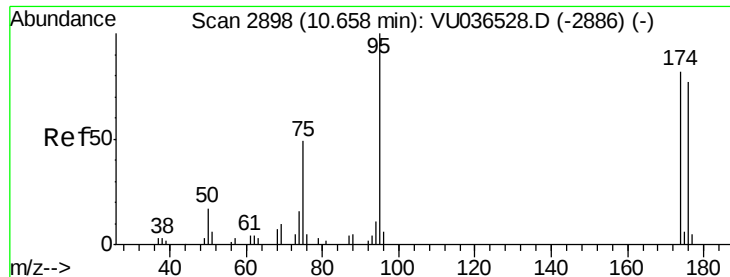
1,3-Dichloropropane
 Concen: 0.938 ug/l
 RT: 8.61 min Scan# 2260
 Delta R.T. 0.00 min
 Lab File: VU036539.D
 Acq: 23 Jan 2020 14:34

Tgt Ion	76	Resp	12407
Ion	Ratio	Lower	Upper
76	100		
78	31.5	25.4	38.2



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

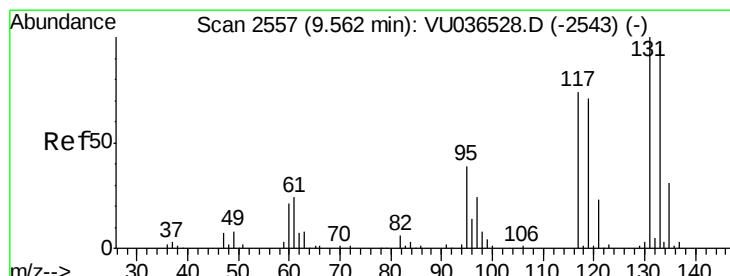
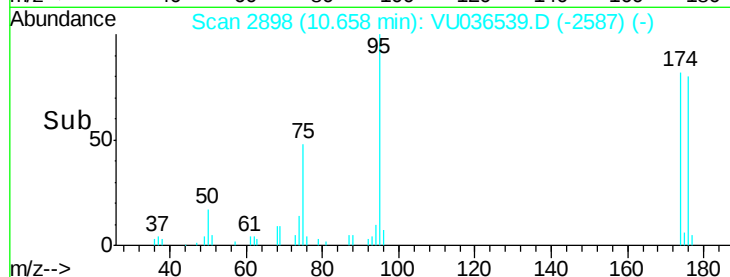
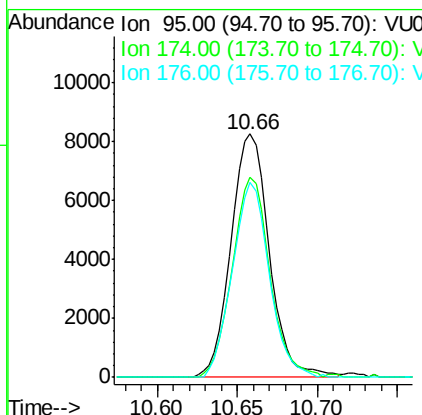
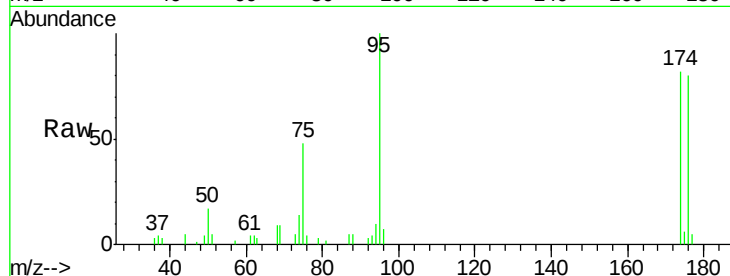




#57
 4-Bromofluorobenzene
 Concen: 0.956 ug/l
 RT: 10.66 min Scan# 2898
 Delta R.T. 0.00 min
 Lab File: VU036539.D
 Acq: 23 Jan 2020 14:34

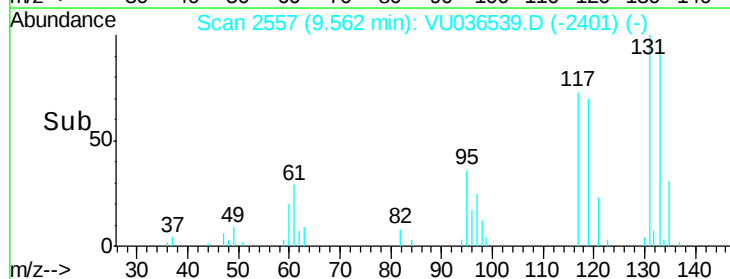
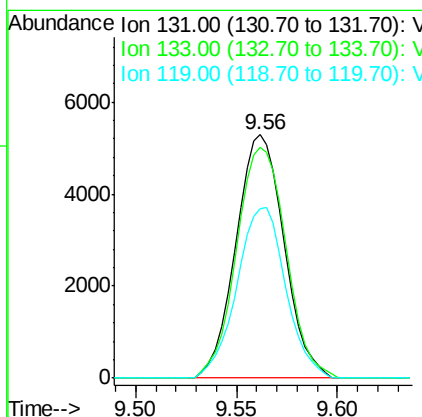
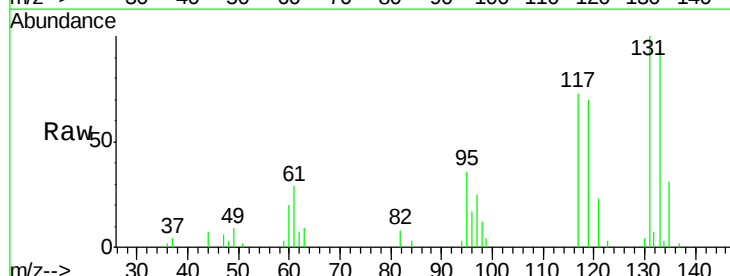
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WSDL

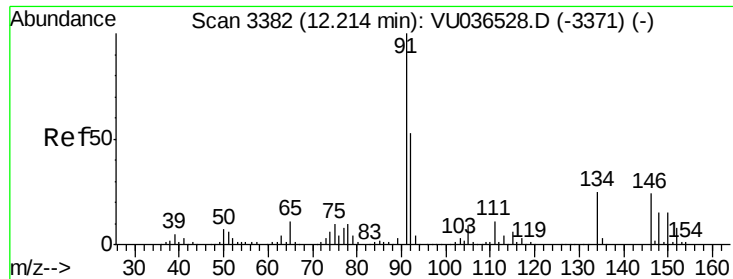
Tot Ion: 95 Resp: 13499
 Ion Ratio Lower Upper
 95 100
 174 80.6 64.7 97.1
 176 77.0 60.6 91.0



#60
 1,1,1,2-Tetrachloroethane
 Concen: 0.941 ug/l
 RT: 9.56 min Scan# 2557
 Delta R.T. 0.00 min
 Lab File: VU036539.D
 Acq: 23 Jan 2020 14:34

Tgt Ion: 131 Resp: 8858
 Ion Ratio Lower Upper
 131 100
 133 97.7 76.4 114.6
 119 70.8 56.6 85.0

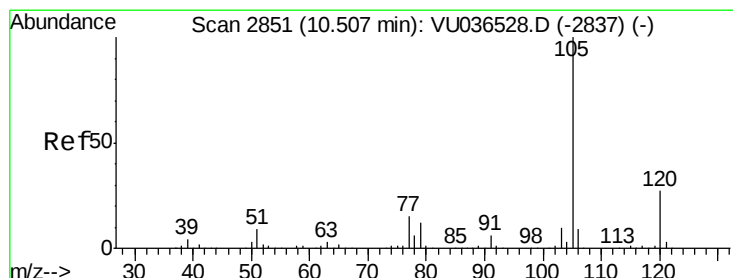
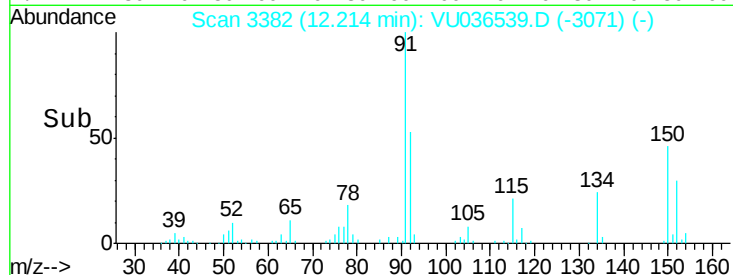
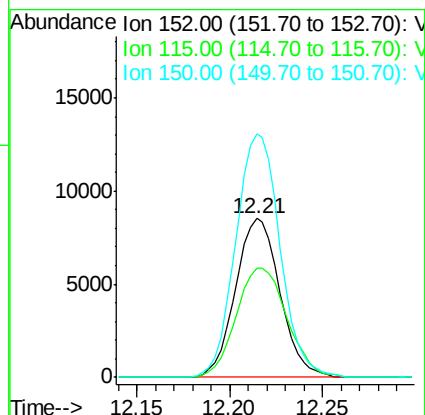
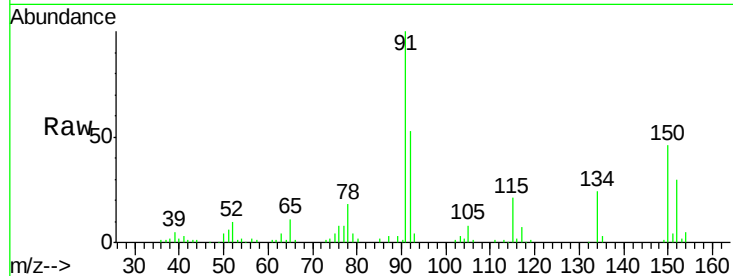




#68
 1,2-Dichlorobenzene-d4
 Concen: 0.983 ug/l
 RT: 12.21 min Scan# 3382
 Delta R.T. 0.00 min
 Lab File: VU036539.D
 Acq: 23 Jan 2020 14:34

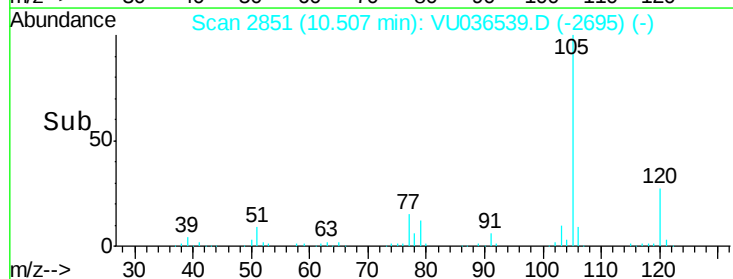
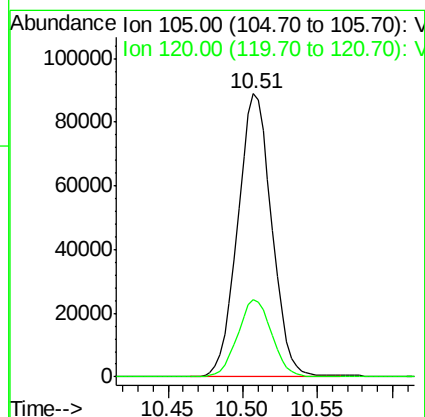
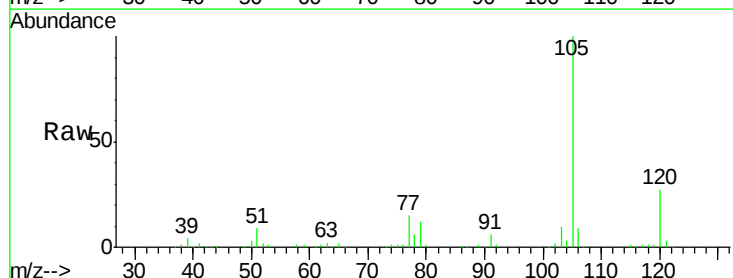
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WSDL

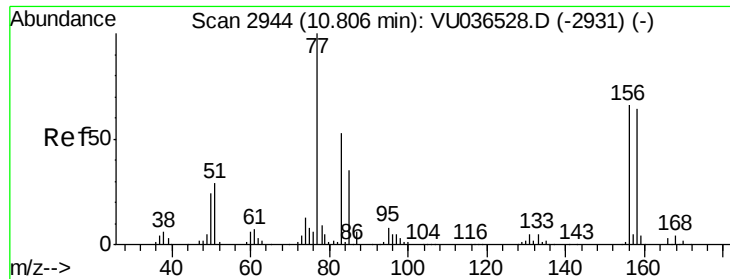
Tot Ion:152 Resp: 14210
 Ion Ratio Lower Upper
 152 100
 115 78.6 0.0 241.8
 150 153.0 0.0 652.4



#69
 Isopropylbenzene
 Concen: 2.836 ug/l
 RT: 10.51 min Scan# 2851
 Delta R.T. 0.00 min
 Lab File: VU036539.D
 Acq: 23 Jan 2020 14:34

Tgt Ion:105 Resp: 141065
 Ion Ratio Lower Upper
 105 100
 120 27.2 13.6 40.7





#70

1,1,2,2-Tetrachloroethane

Concen: 2.432 ug/l

RT: 10.81 min Scan# 2945

Delta R.T. 0.00 min

Lab File: VU036539.D

Acq: 23 Jan 2020 14:34

Instrument :

MSVOA_U

ClientSampleId :

PT-UNRVOA-WSDL

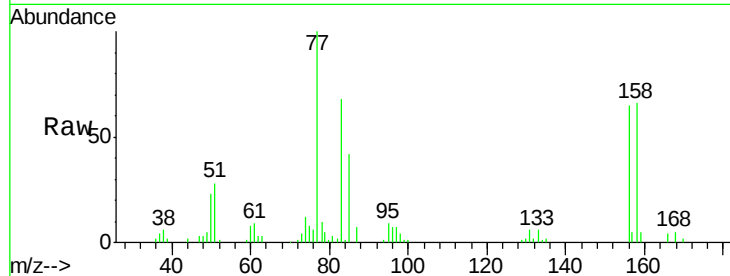
Tot Ion: 83 Resp: 23689

Ion Ratio Lower Upper

83 100

131 9.8 7.8 11.8

85 63.9 53.2 79.8

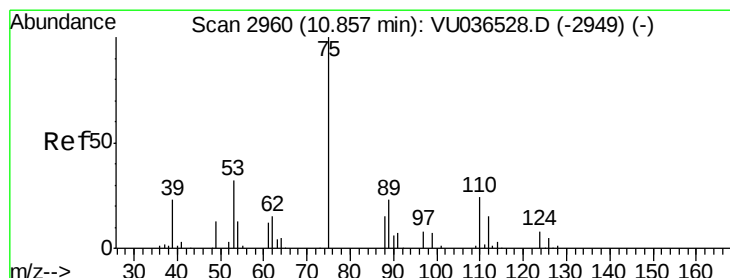
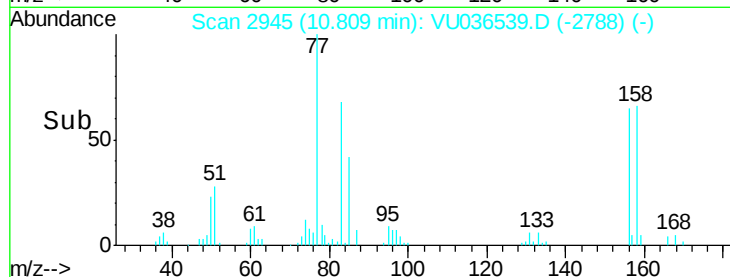


Abundance Ion 83.00 (82.70 to 83.70): VU036528.D (-2931) (-)

Ion 131.00 (130.70 to 131.70): VU036528.D (-2931) (-)

Ion 85.00 (84.70 to 85.70): VU036528.D (-2931) (-)

Time-->



#71

1,2,3-Trichloropropane

Concen: 1.310 ug/l

RT: 10.85 min Scan# 2957

Delta R.T. -0.01 min

Lab File: VU036539.D

Acq: 23 Jan 2020 14:34

Tgt Ion: 75 Resp: 9103

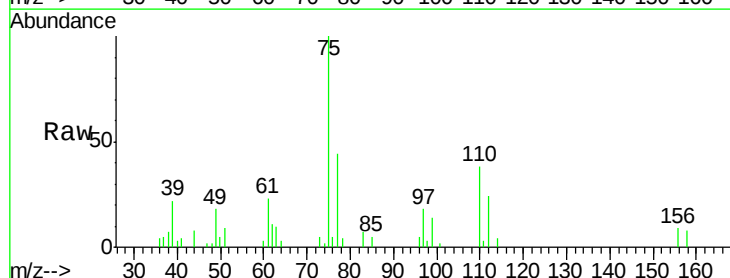
Ion Ratio Lower Upper

75 100

77 0.0 0.0 129.6

110 36.4 0.0 77.4

97 18.2 0.0 42.0



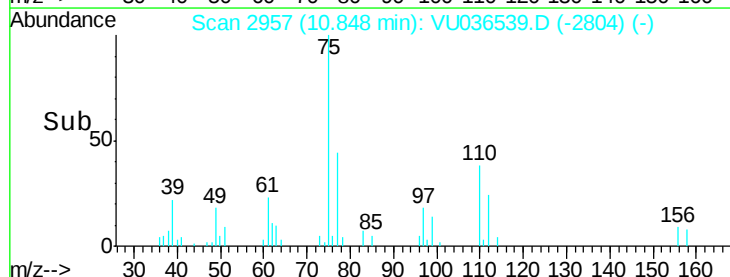
Abundance Ion 75.00 (74.70 to 75.70): VU036528.D (-2949) (-)

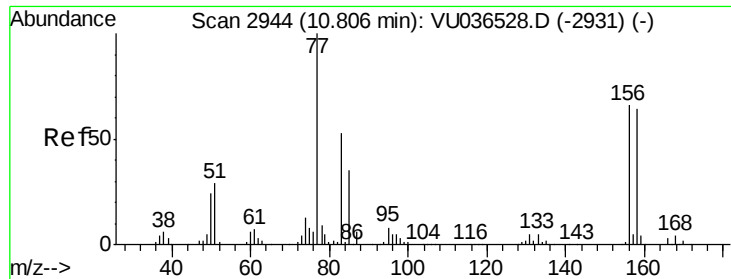
Ion 77.00 (76.70 to 77.70): VU036528.D (-2949) (-)

Ion 110.00 (109.70 to 110.70): VU036528.D (-2949) (-)

Ion 97.00 (96.70 to 97.70): VU036528.D (-2949) (-)

Time-->





#72

Bromobenzene

Concen: 2.125 ug/l

RT: 10.81 min Scan# 2944

Delta R.T. 0.00 min

Lab File: VU036539.D

Acq: 23 Jan 2020 14:34

Instrument :

MSVOA_U

ClientSampleId :

PT-UNRVOA-WSDL

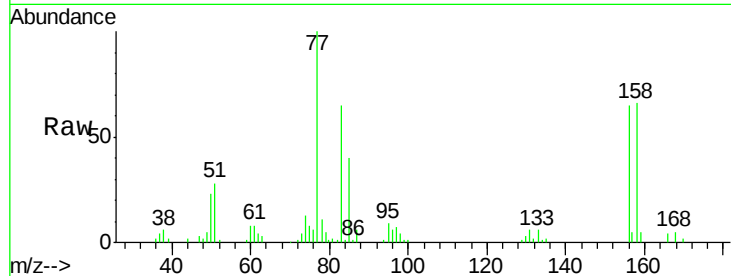
Tot Ion:156 Resp: 25469

Ion Ratio Lower Upper

156 100

77 153.9 0.0 306.6

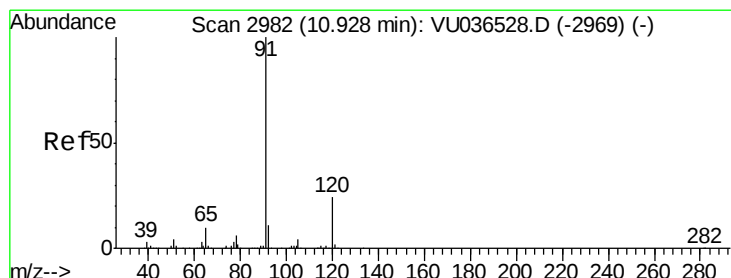
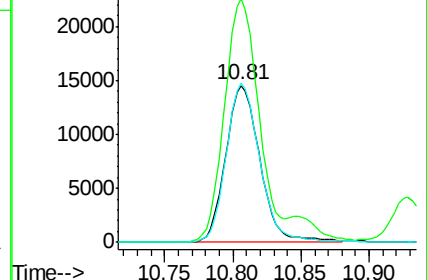
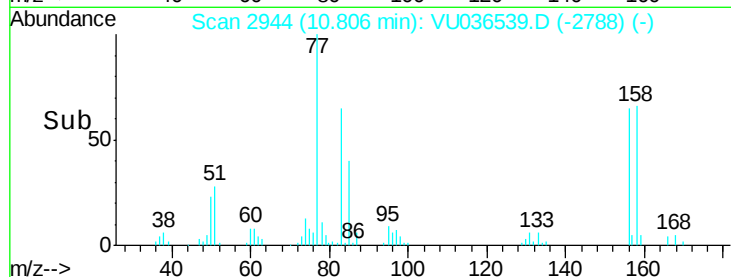
158 98.5 0.0 192.0



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: 2.834 ug/l

RT: 10.93 min Scan# 2982

Delta R.T. 0.00 min

Lab File: VU036539.D

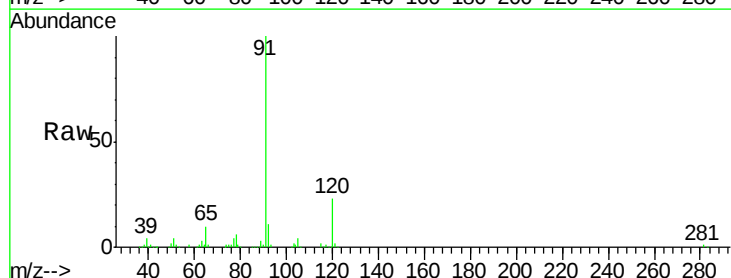
Acq: 23 Jan 2020 14:34

Tgt Ion:120 Resp: 39556

Ion Ratio Lower Upper

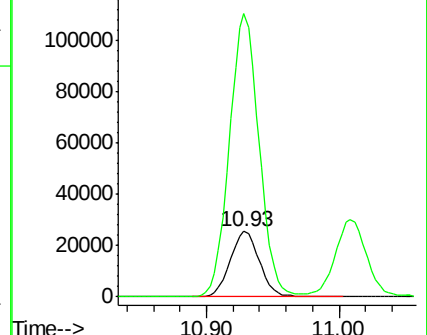
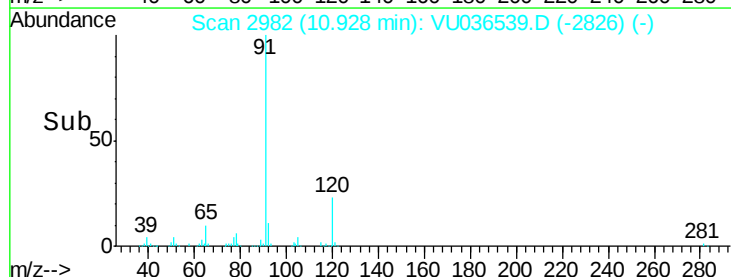
120 100

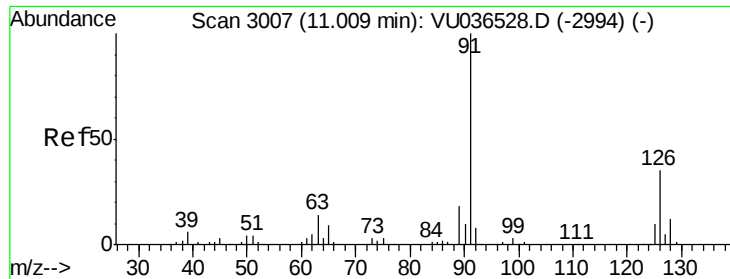
91 432.6 329.5 494.3



Abundance Ion 120.00 (119.70 to 120.70): V

Ion 91.00 (90.70 to 91.70): VU0





#74

2-Chlorotoluene

Concen: 1.410 ug/l

RT: 11.01 min Scan# 3007

Delta R.T. 0.00 min

Lab File: VU036539.D

Acq: 23 Jan 2020 14:34

Instrument :

MSVOA_U

ClientSampleId :

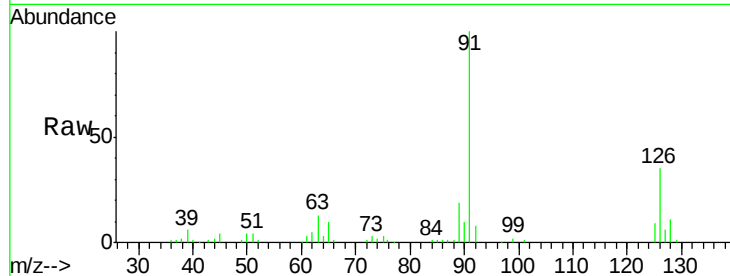
PT-UNRVOA-WSDL

Tot Ion:126 Resp: 16902

Ion Ratio Lower Upper

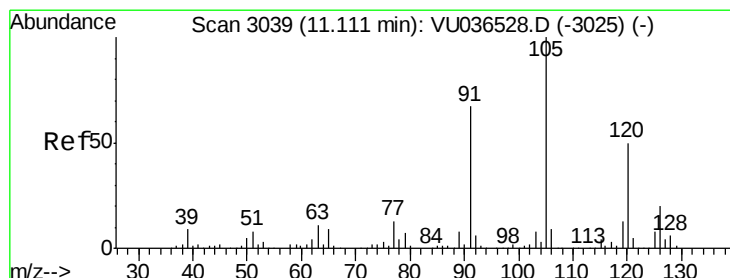
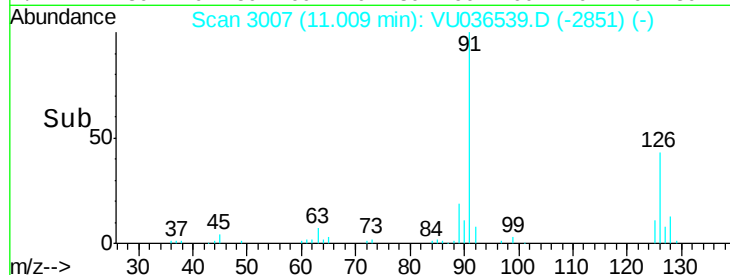
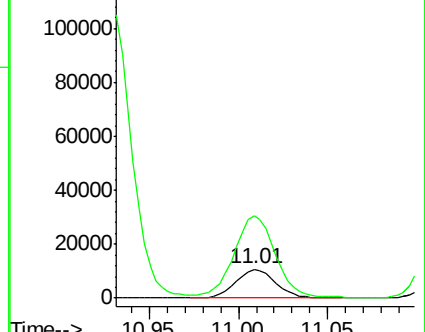
126 100

91 298.1 0.0 567.4



Abundance Ion 126.00 (125.70 to 126.70): V

Ion 91.00 (90.70 to 91.70): VU



#75

1,3,5-Trimethylbenzene

Concen: 1.373 ug/l

RT: 11.11 min Scan# 3039

Delta R.T. 0.00 min

Lab File: VU036539.D

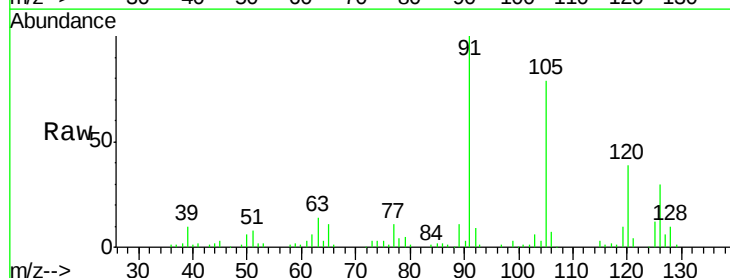
Acq: 23 Jan 2020 14:34

Tgt Ion:105 Resp: 58589

Ion Ratio Lower Upper

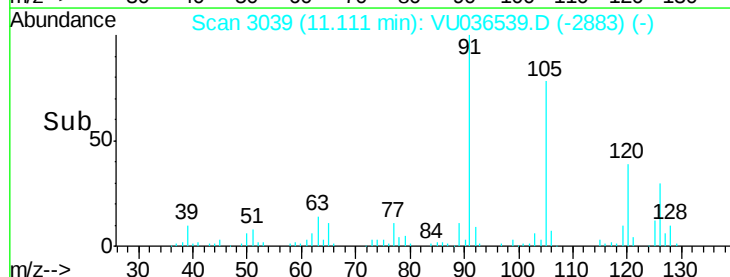
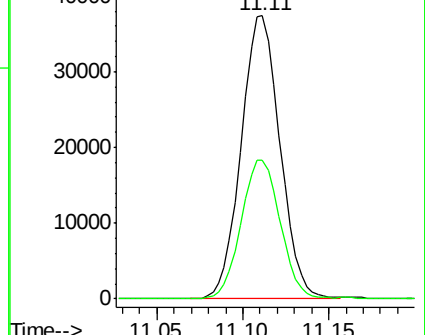
105 100

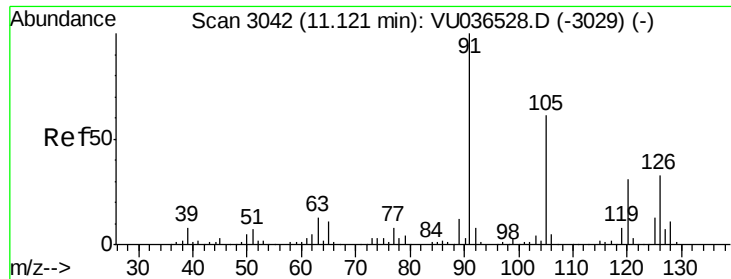
120 49.2 39.8 59.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

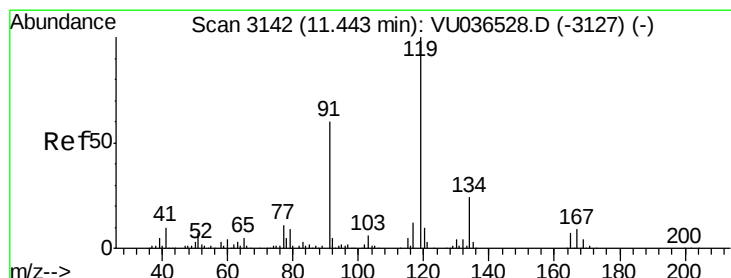
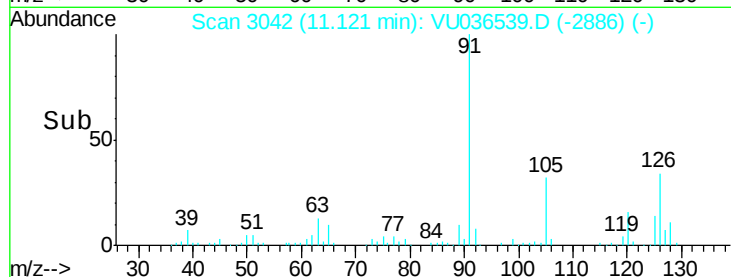
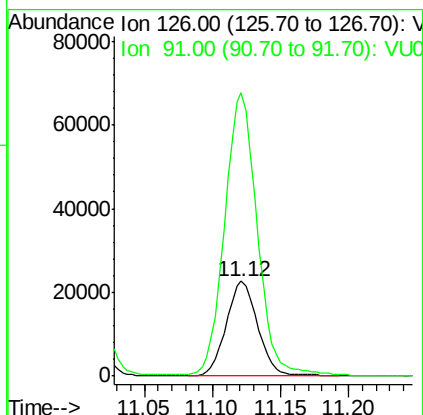
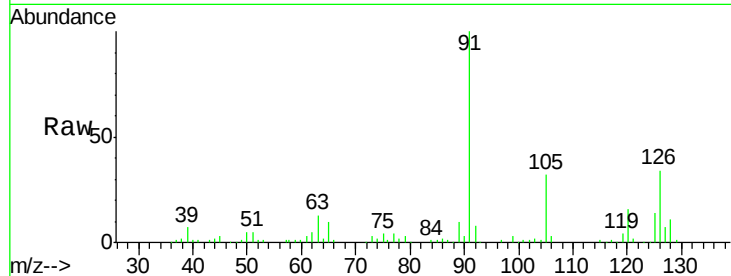




#76
4-Chlorotoluene
Concen: 2.914 ug/l
RT: 11.12 min Scan# 3042
Delta R.T. 0.00 min
Lab File: VU036539.D
Acq: 23 Jan 2020 14:34

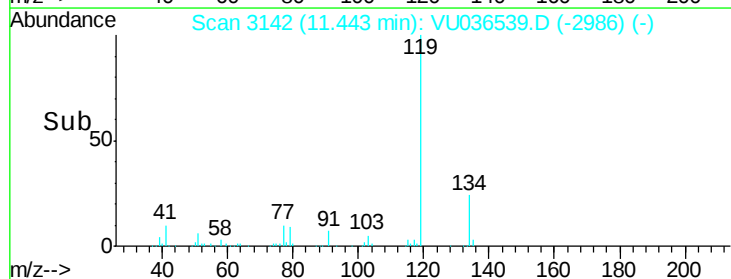
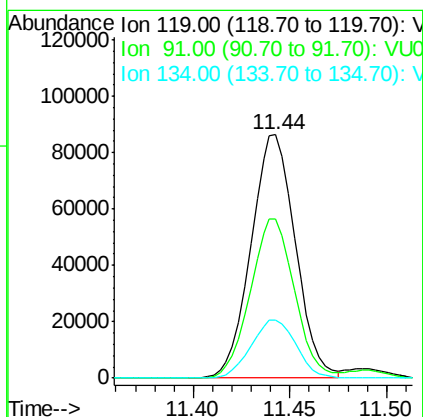
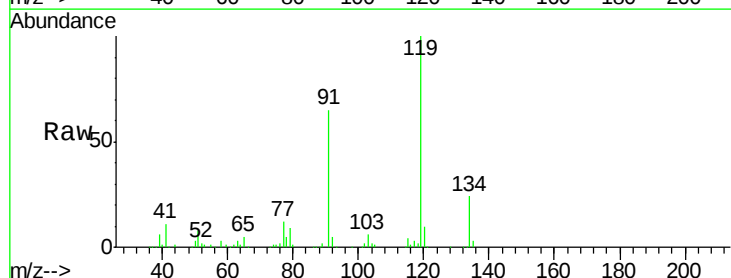
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

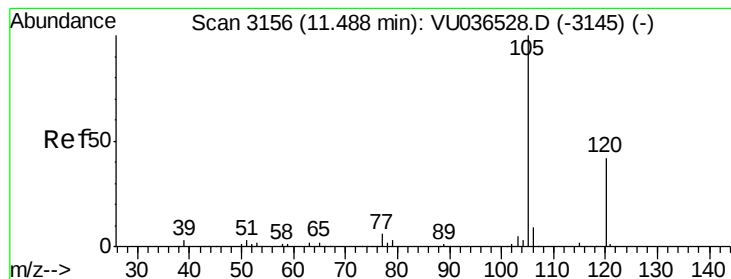
Tot Ion:126 Resp: 36093
Ion Ratio Lower Upper
126 100
91 313.5 0.0 633.0



#77
tert-Butylbenzene
Concen: 3.423 ug/l
RT: 11.44 min Scan# 3142
Delta R.T. 0.00 min
Lab File: VU036539.D
Acq: 23 Jan 2020 14:34

Tgt Ion:119 Resp: 138370
Ion Ratio Lower Upper
119 100
91 65.0 29.3 87.8
134 24.2 19.0 28.4





#78

1,2,4-Trimethylbenzene

Concen: 0.877 ug/l

RT: 11.49 min Scan# 3156

Delta R.T. 0.00 min

Lab File: VU036539.D

Acq: 23 Jan 2020 14:34

Instrument :

MSVOA_U

ClientSampleId :

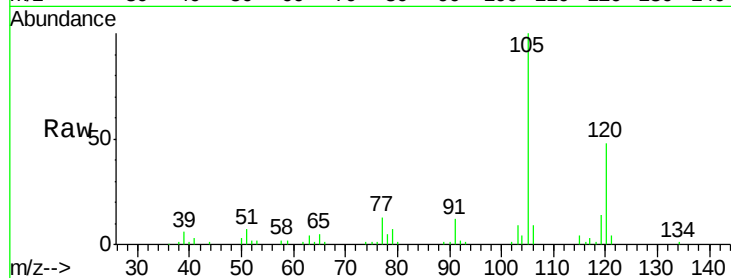
PT-UNRVOA-WSDL

Tot Ion:105 Resp: 38586

Ion Ratio Lower Upper

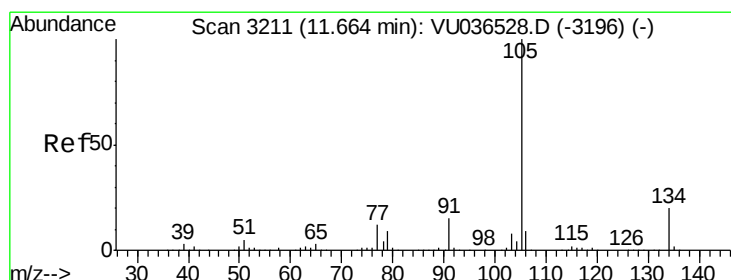
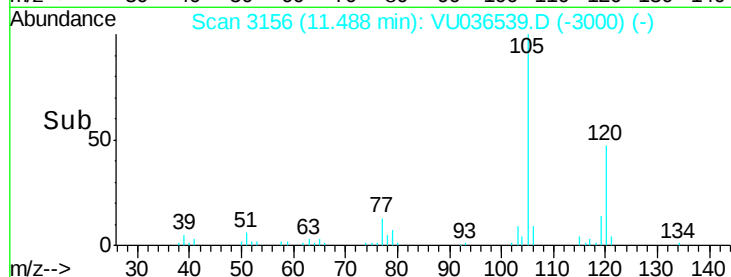
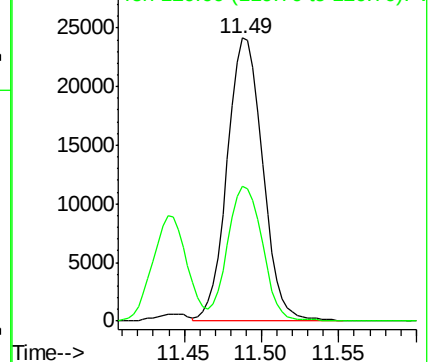
105 100

120 46.7 23.3 69.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#79

sec-Butylbenzene

Concen: 3.034 ug/l

RT: 11.66 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU036539.D

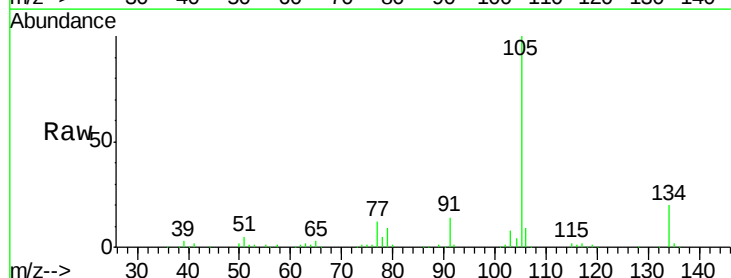
Acq: 23 Jan 2020 14:34

Tgt Ion:105 Resp: 170189

Ion Ratio Lower Upper

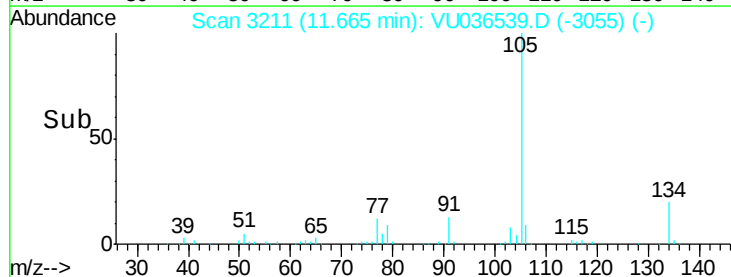
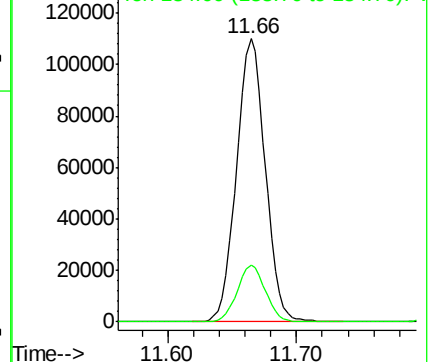
105 100

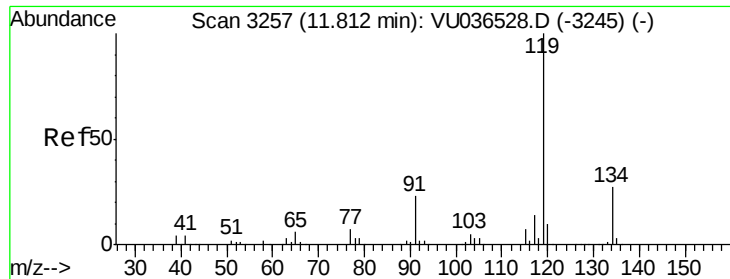
134 19.8 16.0 24.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

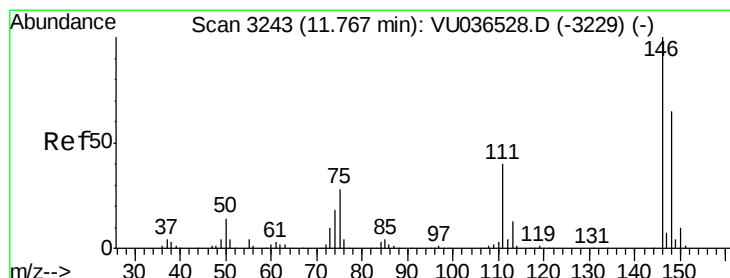
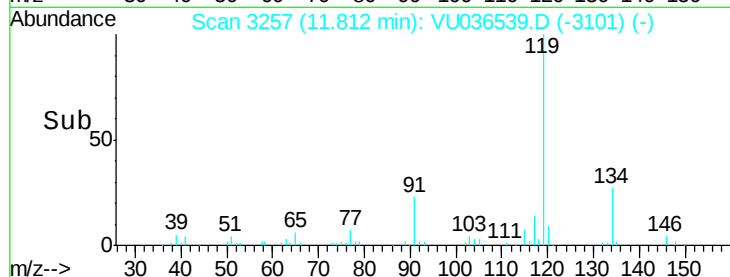
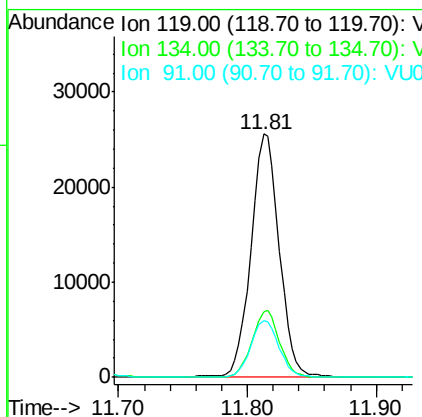
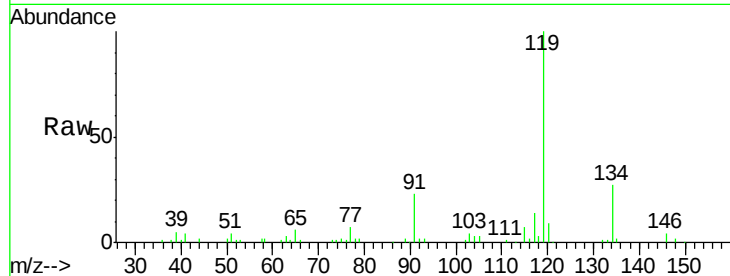




#81
 p-Isopropyltoluene
 Concen: 0.836 ug/l
 RT: 11.81 min Scan# 3257
 Delta R.T. 0.00 min
 Lab File: VU036539.D
 Acq: 23 Jan 2020 14:34

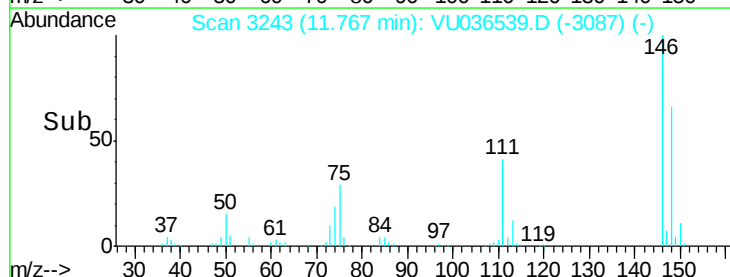
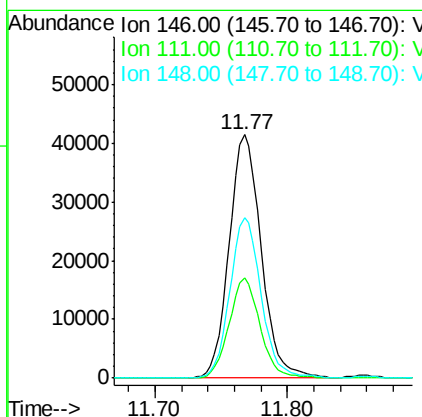
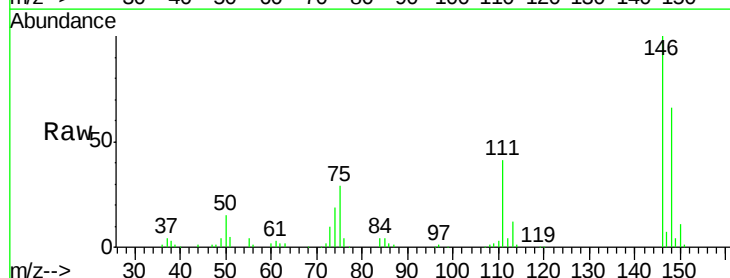
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WSDL

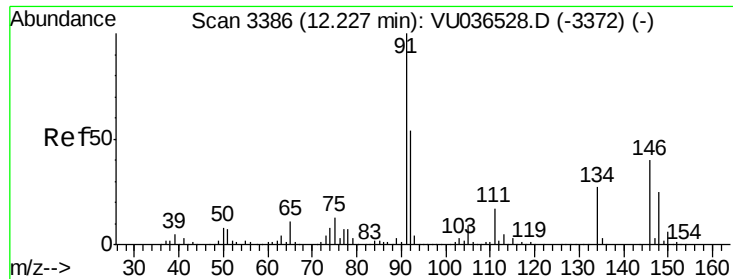
Tot Ion:119 Resp: 39205
 Ion Ratio Lower Upper
 119 100
 134 26.6 21.4 32.0
 91 23.2 18.3 27.5



#82
 1,3-Dichlorobenzene
 Concen: 2.920 ug/l
 RT: 11.77 min Scan# 3243
 Delta R.T. 0.00 min
 Lab File: VU036539.D
 Acq: 23 Jan 2020 14:34

Tgt Ion:146 Resp: 70009
 Ion Ratio Lower Upper
 146 100
 111 39.7 32.2 48.2
 148 64.1 51.4 77.2

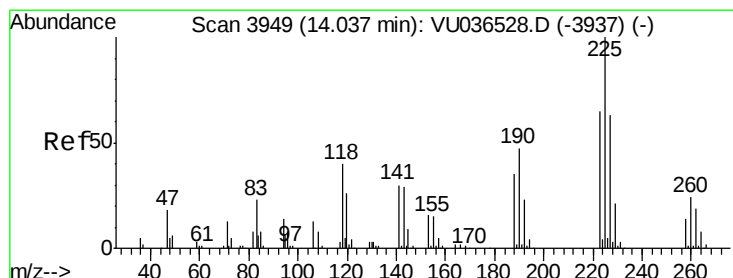
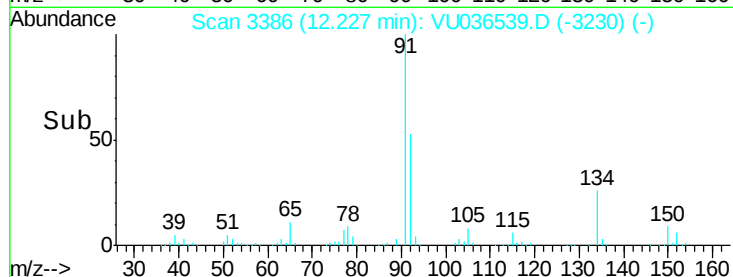
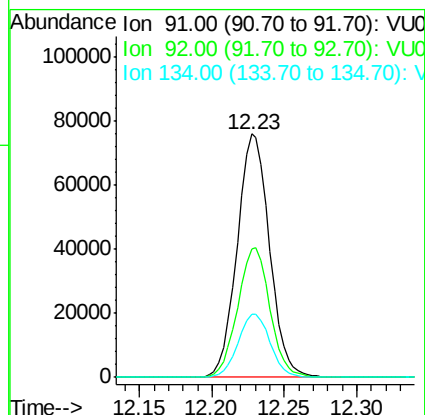
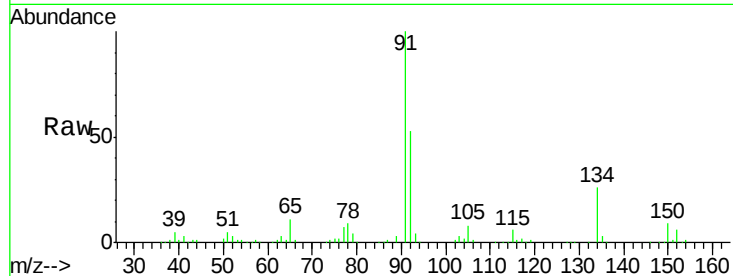




#84
n-Butylbenzene
Concen: 2.710 ug/l
RT: 12.23 min Scan# 3386
Delta R.T. 0.00 min
Lab File: VU036539.D
Acq: 23 Jan 2020 14:34

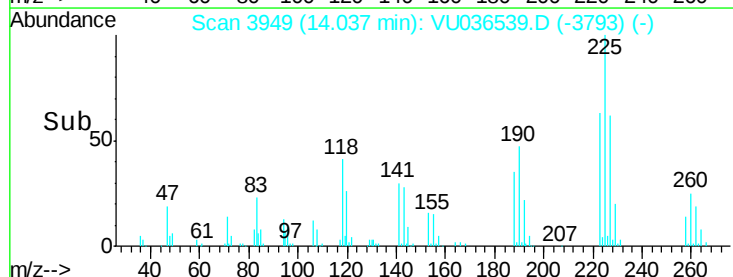
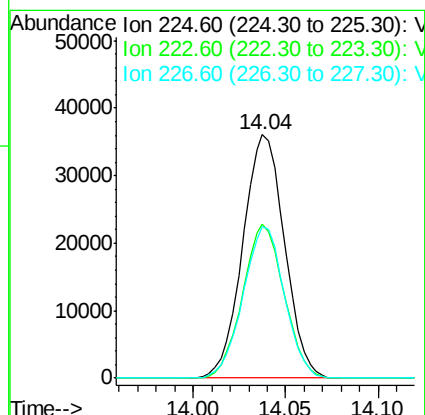
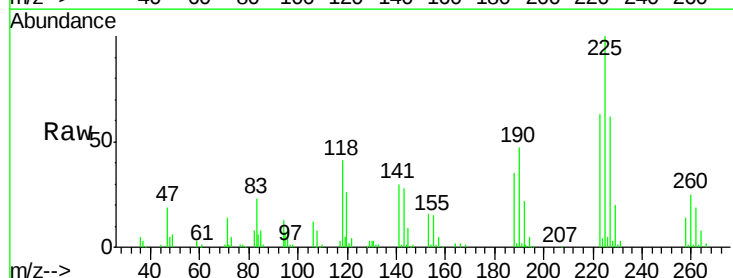
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

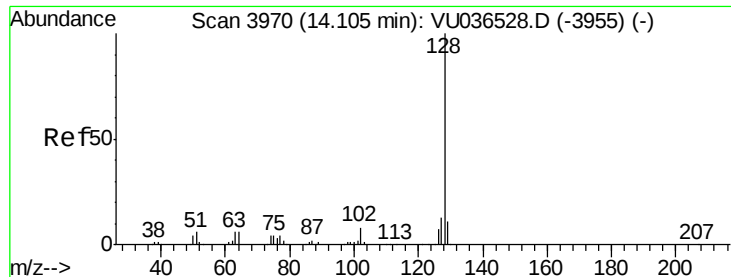
Tot Ion: 91 Resp: 117482
Ion Ratio Lower Upper
91 100
92 53.2 42.9 64.3
134 25.9 21.4 32.0



#88
Hexachlorobutadiene
Concen: 7.002 ug/l
RT: 14.04 min Scan# 3949
Delta R.T. 0.00 min
Lab File: VU036539.D
Acq: 23 Jan 2020 14:34

Tgt Ion: 225 Resp: 56321
Ion Ratio Lower Upper
225 100
223 62.5 51.7 77.5
227 61.4 50.6 75.8





#89

Naphthalene

Concen: 5.391 ug/l

RT: 14.10 min Scan# 3970

Delta R.T. 0.00 min

Lab File: VU036539.D

Acq: 23 Jan 2020 14:34

Instrument :

MSVOA_U

ClientSampleId :

PT-UNRVOA-WSDL

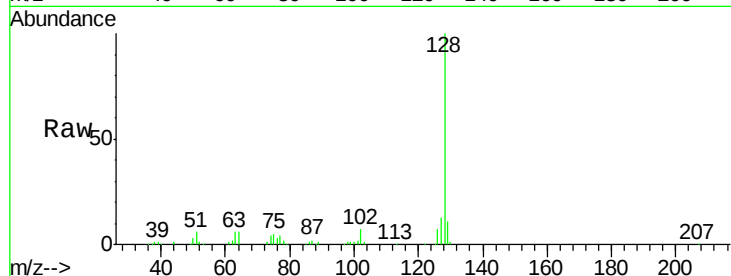
Tot Ion:128 Resp: 136320

Ion Ratio Lower Upper

128 100

127 12.8 10.5 15.7

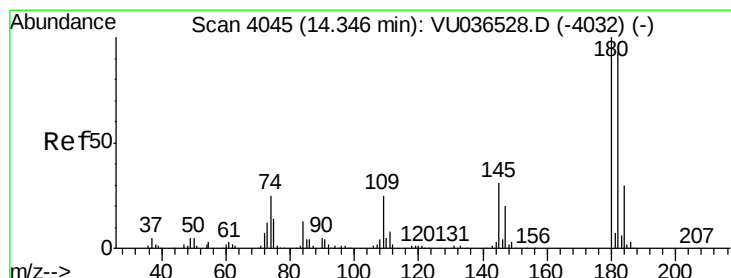
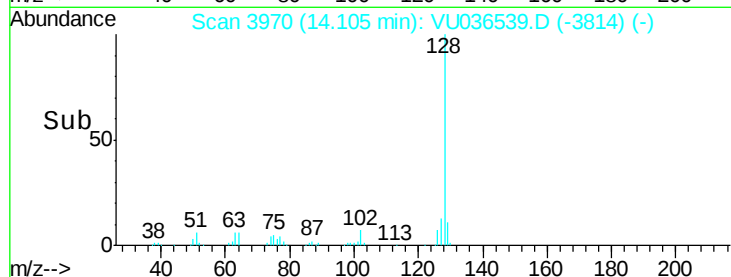
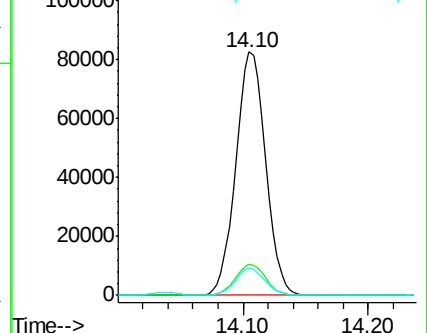
129 10.9 8.7 13.1



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: 4.699 ug/l

RT: 14.35 min Scan# 4045

Delta R.T. 0.00 min

Lab File: VU036539.D

Acq: 23 Jan 2020 14:34

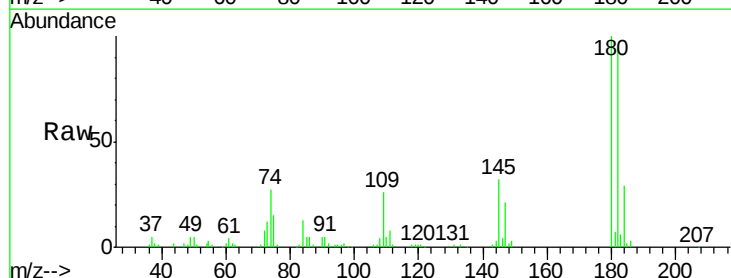
Tgt Ion:180 Resp: 64865

Ion Ratio Lower Upper

180 100

182 96.4 76.2 114.4

145 32.0 25.2 37.8



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

