

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU012320\
 Data File : VU036535.D
 Acq On : 23 Jan 2020 12:38
 Operator : JC/MD
 Sample : L1134-07DL 2.5X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WSDL

Quant Time: Jan 24 01:32:25 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

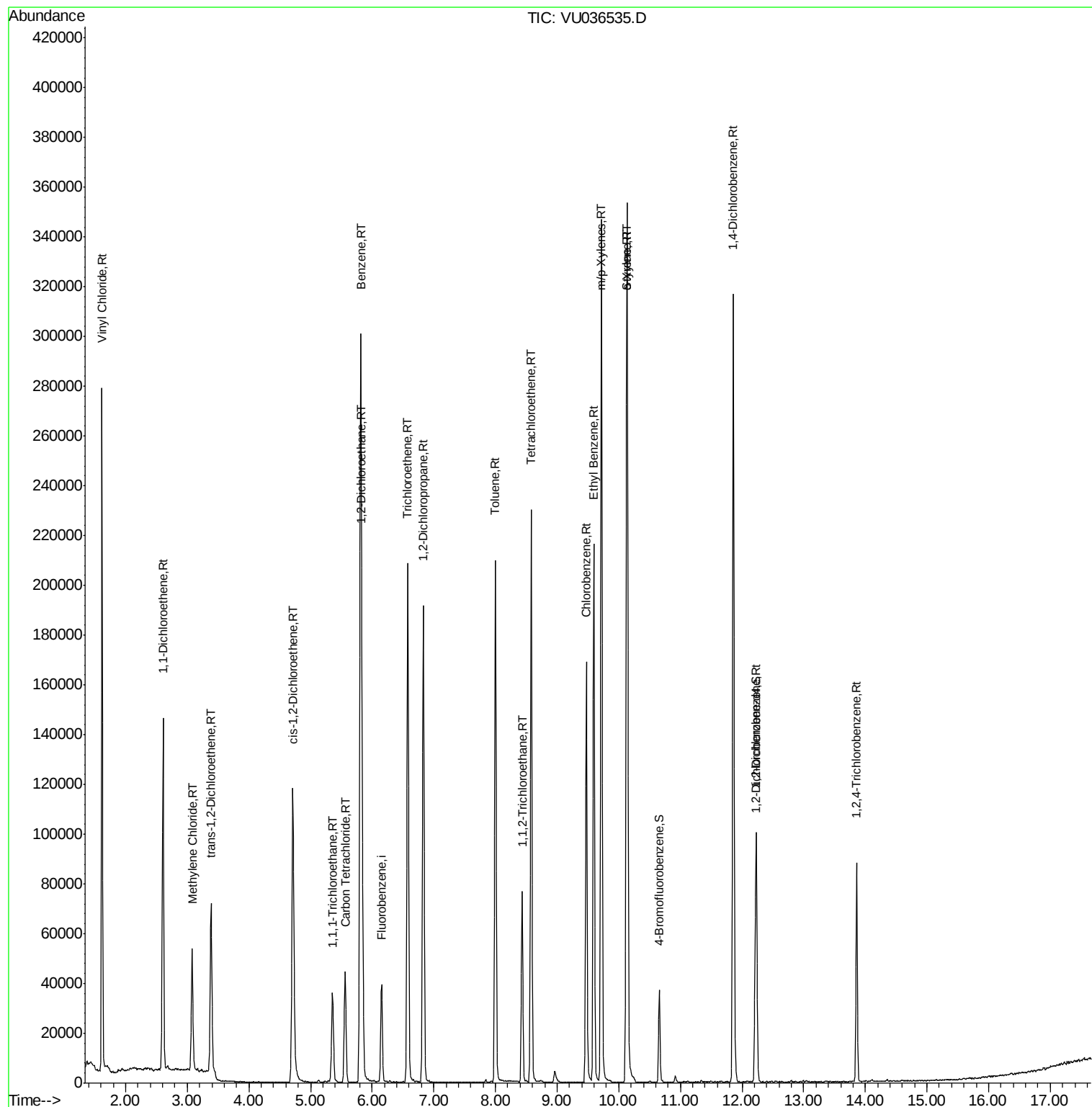
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	6.15	96	37088	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.66	95	13803	0.99	ug/l	0.00
Spiked Amount 1.000			Recovery	=	99.00%	
68) 1,2-Dichlorobenzene-d4	12.21	152	14200	0.99	ug/l	0.00
Spiked Amount 1.000			Recovery	=	99.00%	
Target Compounds					Ovalue	
4) Vinyl Chloride	1.62	62	184962	12.424	ug/l	99
9) 1,1-Dichloroethene	2.61	96	50274	5.155	ug/l	99
15) Methylene Chloride	3.08	84	24524	1.909	ug/l	98
16) trans-1,2-Dichloroethene	3.38	96	30492	2.834	ug/l	97
22) cis-1,2-Dichloroethene	4.71	96	65443	5.863	ug/l	90
28) 1,1,1-Trichloroethane	5.36	97	25748	1.771	ug/l	97
30) Carbon Tetrachloride	5.56	117	29940	2.405	ug/l	97
35) Benzene	5.81	78	281792	6.857	ug/l	100
36) 1,2-Dichloroethane	5.84	62	73558	6.649	ug/l	100
37) Trichloroethene	6.58	130	73789	6.504	ug/l	99
38) 1,2-Dichloropropane	6.83	63	77495	7.500	ug/l	99
49) Toluene	8.00	92	90981	3.468	ug/l	100
52) 1,1,2-Trichloroethane	8.43	97	25288	3.305	ug/l	96
58) Tetrachloroethene	8.58	164	54114	4.772	ug/l	99
59) Chlorobenzene	9.47	112	96508	3.303	ug/l	100
63) Ethyl Benzene	9.60	91	158853	3.244	ug/l	98
64) m/p-Xylenes	9.72	106	104675	5.400	ug/l	99
65) o-Xylene	10.12	106	53451	2.848	ug/l	98
66) Styrene	10.14	104	135990	4.326	ug/l	97
83) 1,4-Dichlorobenzene	11.86	146	143567	6.043	ug/l	99
85) 1,2-Dichlorobenzene	12.23	146	38534	1.694	ug/l	100
87) 1,2,4-Trichlorobenzene	13.86	180	28882	1.985	ug/l	99
-----	-----	-----	-----	-----	-----	-----

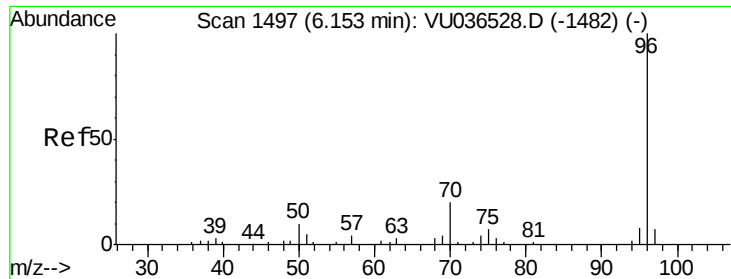
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jan 24 01:32:25 2020
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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: VU036535.D

Acq: 23 Jan 2020 12:38

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WSDL

Tot Ion: 96 Resp: 37088

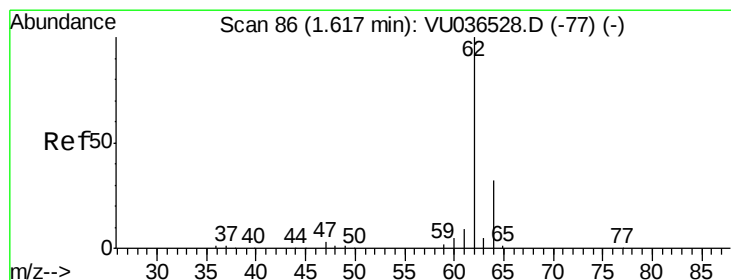
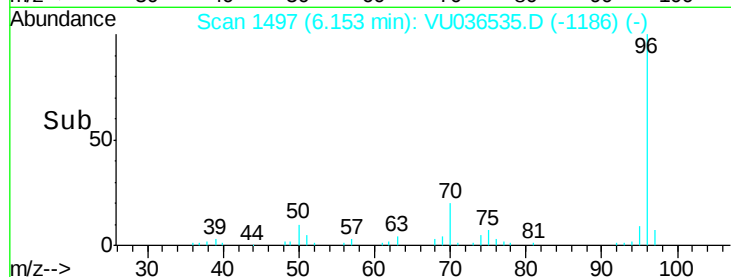
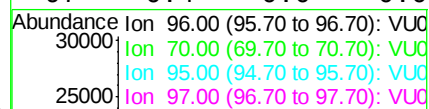
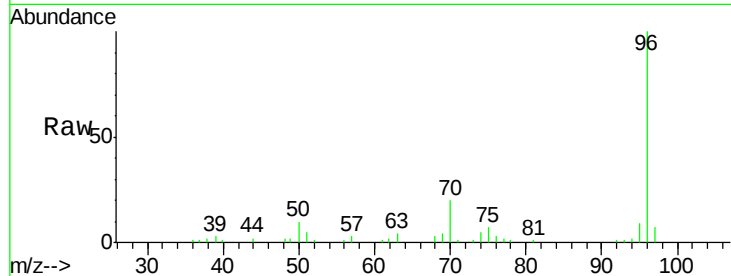
Ion Ratio Lower Upper

96 100

70 19.5 15.6 23.4

95 8.9 7.0 10.6

97 6.4 0.0 0.0#



#4

Vinyl Chloride

Concen: 12.424 ug/l

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU036535.D

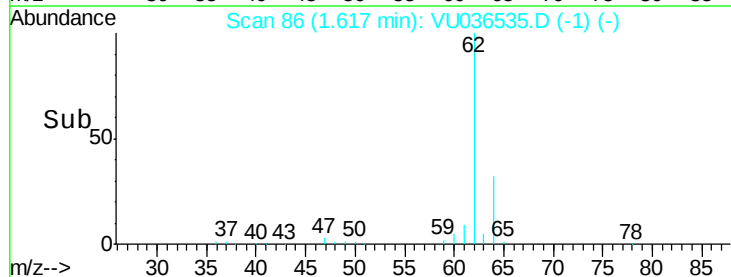
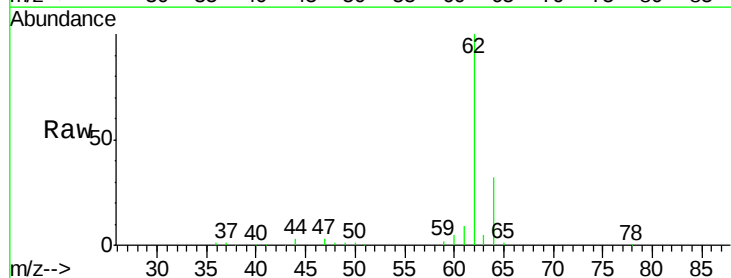
Acq: 23 Jan 2020 12:38

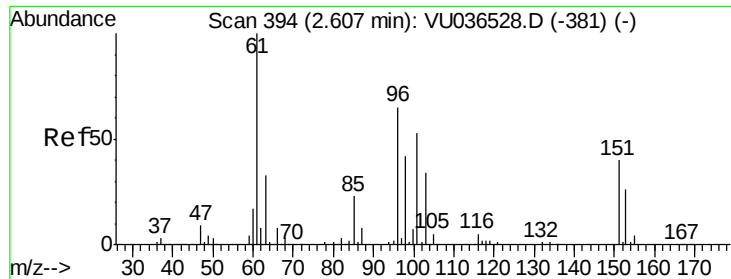
Tgt Ion: 62 Resp: 184962

Ion Ratio Lower Upper

62 100

64 32.2 25.4 38.2





#9

1,1-Dichloroethene

Concen: 5.155 ug/l

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU036535.D

Acq: 23 Jan 2020 12:38

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WSDL

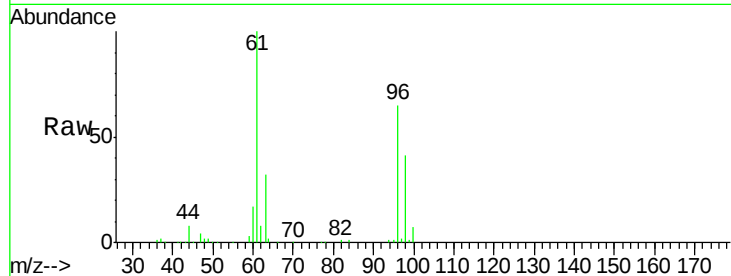
Tot Ion: 96 Resp: 50274

Ion Ratio Lower Upper

96 100

61 153.8 0.0 463.2

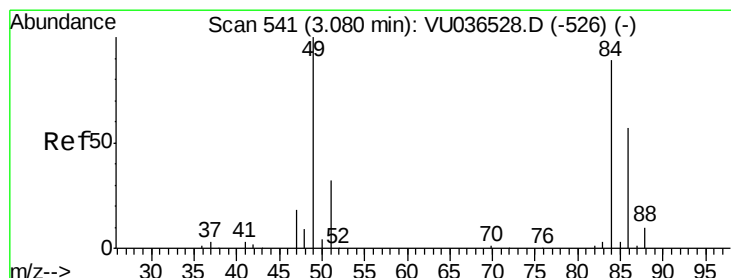
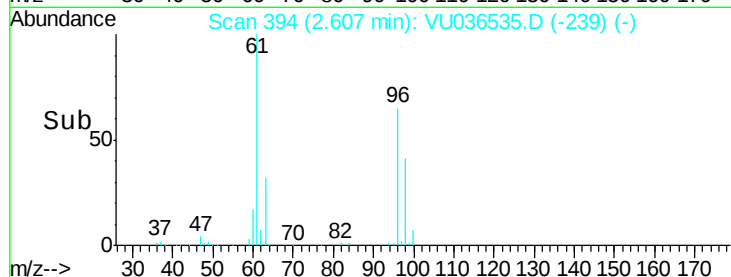
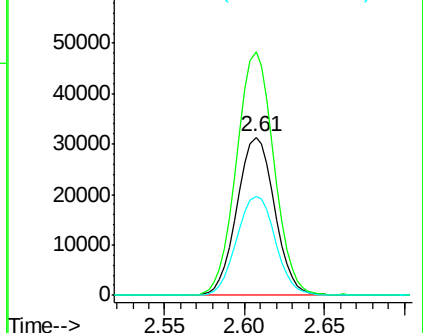
98 62.4 0.0 130.0



Abundance Ion 96.00 (95.70 to 96.70): VU036528.D (-381) (-)

Ion 61.00 (60.70 to 61.70): VU036528.D (-381) (-)

Ion 98.00 (97.70 to 98.70): VU036528.D (-381) (-)



#15

Methylene Chloride

Concen: 1.909 ug/l

RT: 3.08 min Scan# 541

Delta R.T. -0.00 min

Lab File: VU036535.D

Acq: 23 Jan 2020 12:38

Tgt Ion: 84 Resp: 24524

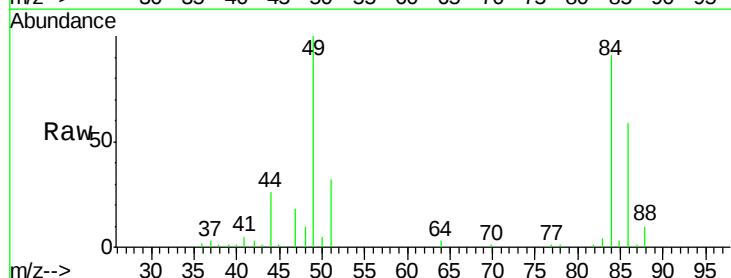
Ion Ratio Lower Upper

84 100

49 109.6 89.7 134.5

51 35.4 0.0 71.6

86 64.7 51.4 77.2

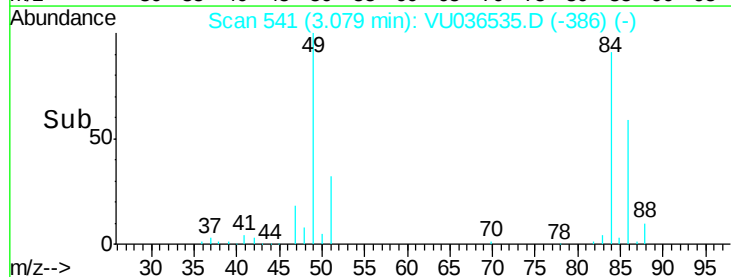
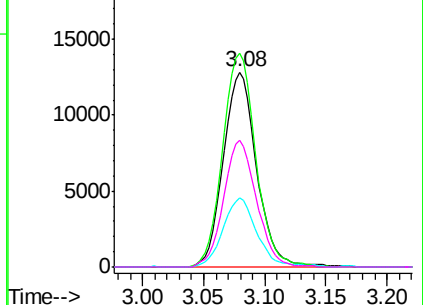


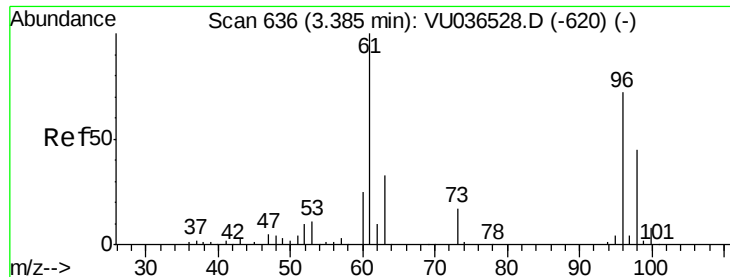
Abundance Ion 84.00 (83.70 to 84.70): VU036528.D (-526) (-)

Ion 49.00 (48.70 to 49.70): VU036528.D (-526) (-)

Ion 51.00 (50.70 to 51.70): VU036528.D (-526) (-)

Ion 86.00 (85.70 to 86.70): VU036528.D (-526) (-)

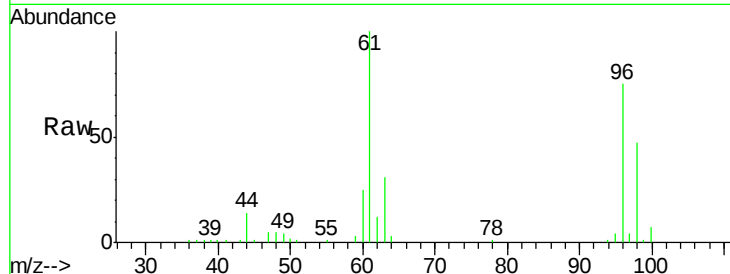




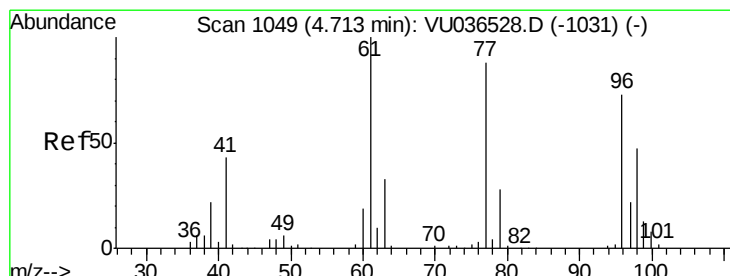
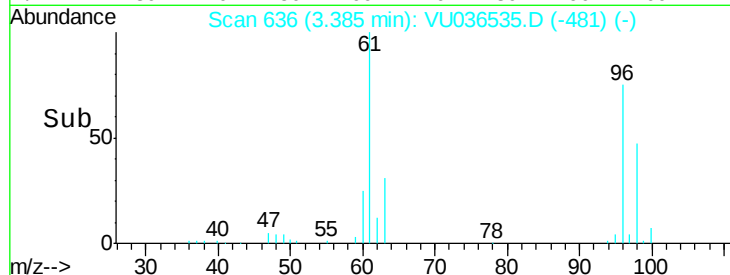
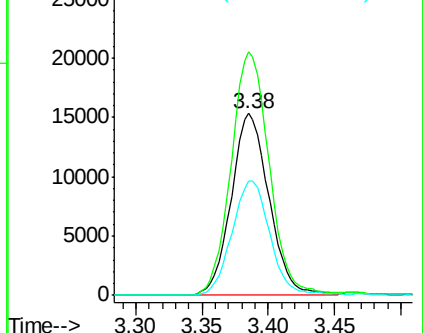
#16
trans-1,2-Dichloroethene
Concen: 2.834 ug/l
RT: 3.38 min Scan# 636
Delta R.T. -0.00 min
Lab File: VU036535.D
Acq: 23 Jan 2020 12:38

Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

Tot Ion: 96 Resp: 30492
Ion Ratio Lower Upper
96 100
61 133.8 110.8 166.2
98 62.8 50.3 75.5

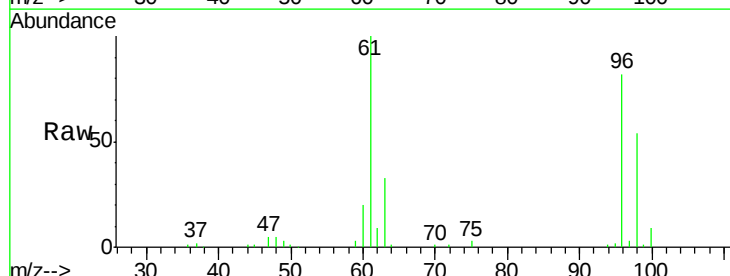


Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

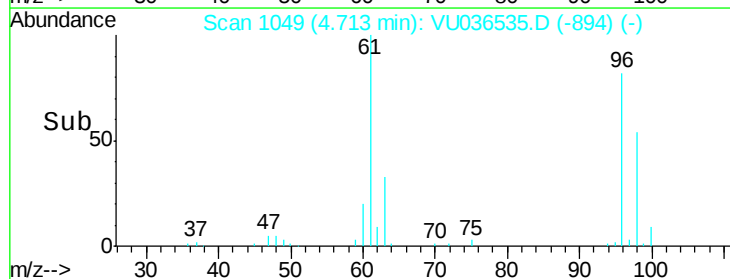
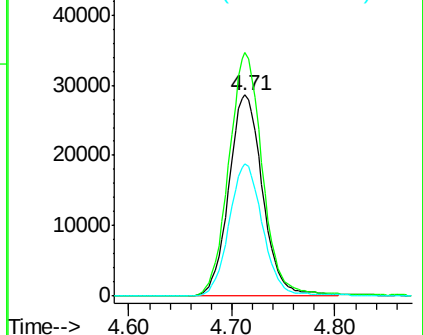


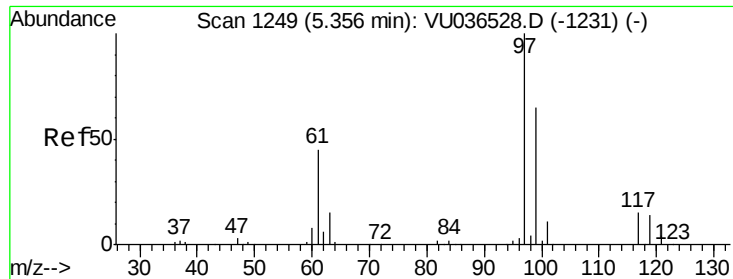
#22
cis-1,2-Dichloroethene
Concen: 5.863 ug/l
RT: 4.71 min Scan# 1049
Delta R.T. -0.00 min
Lab File: VU036535.D
Acq: 23 Jan 2020 12:38

Tgt Ion: 96 Resp: 65443
Ion Ratio Lower Upper
96 100
61 120.6 0.0 342.0
98 65.5 32.0 96.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

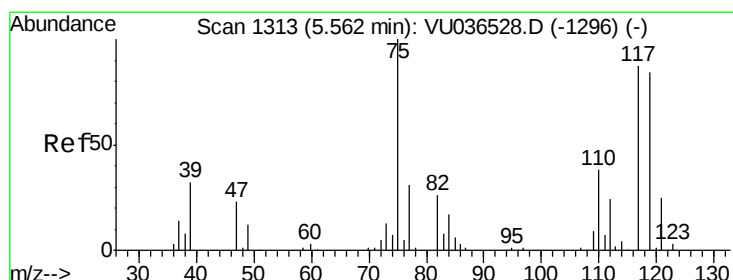
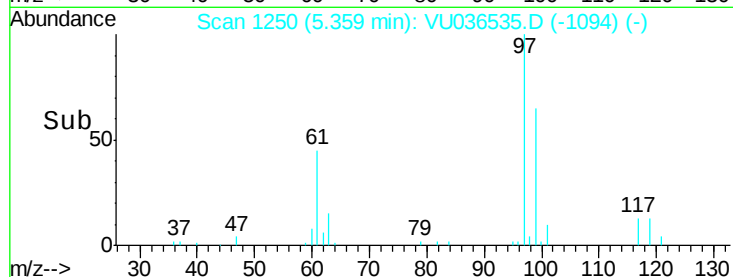
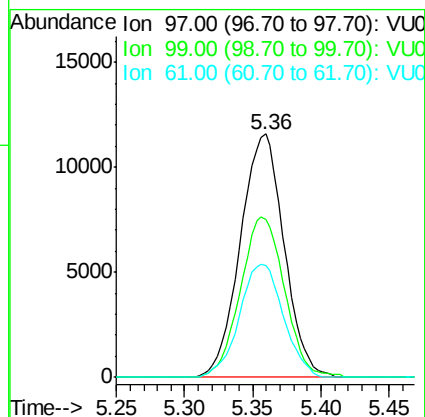
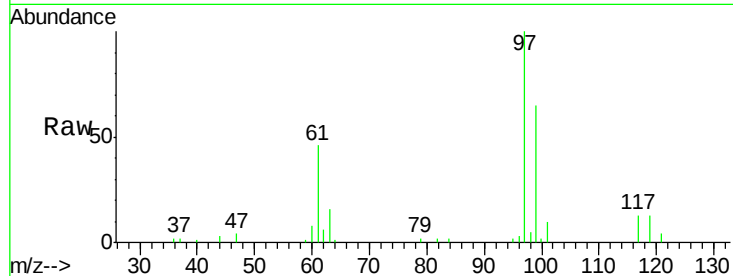




#28
 1,1,1-Trichloroethane
 Concen: 1.771 ug/l
 RT: 5.36 min Scan# 1250
 Delta R.T. 0.00 min
 Lab File: VU036535.D
 Acq: 23 Jan 2020 12:38

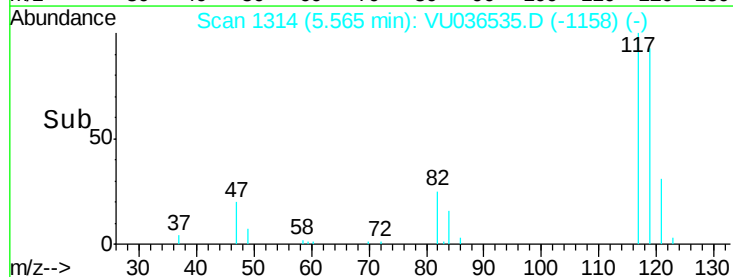
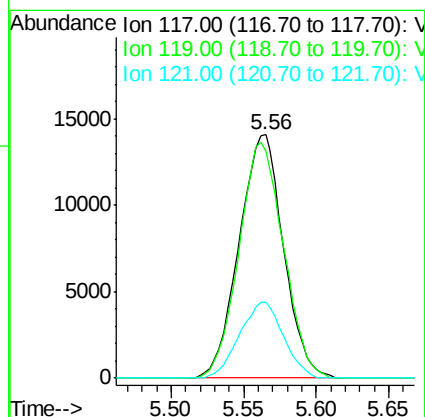
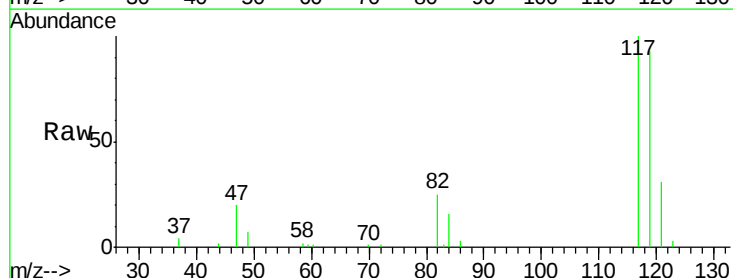
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WSDL

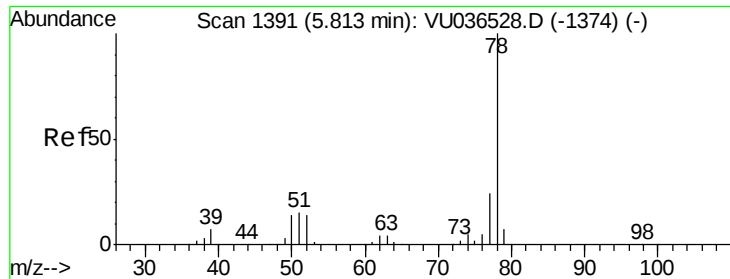
Tot Ion: 97 Resp: 25748
 Ion Ratio Lower Upper
 97 100
 99 66.4 32.1 96.3
 61 46.8 22.7 68.0



#30
 Carbon Tetrachloride
 Concen: 2.405 ug/l
 RT: 5.56 min Scan# 1314
 Delta R.T. 0.00 min
 Lab File: VU036535.D
 Acq: 23 Jan 2020 12:38

Tgt Ion: 117 Resp: 29940
 Ion Ratio Lower Upper
 117 100
 119 93.2 77.0 115.6
 121 31.2 23.3 34.9





#35

Benzene

Concen: 6.857 ug/l

RT: 5.81 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VU036535.D

Acq: 23 Jan 2020 12:38

Instrument :

MSVOA_U

ClientSampleId :

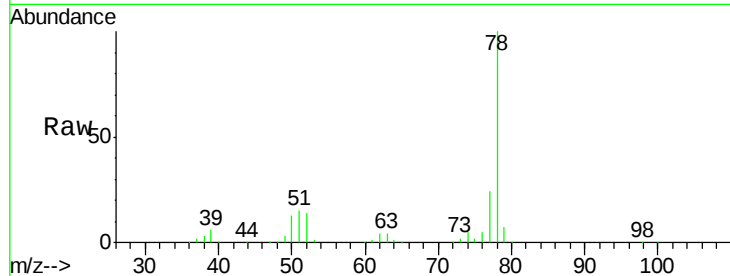
PT-RVOA-WSDL

Tot Ion: 78 Resp: 281792

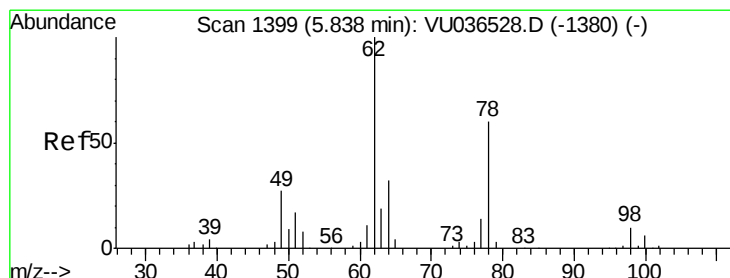
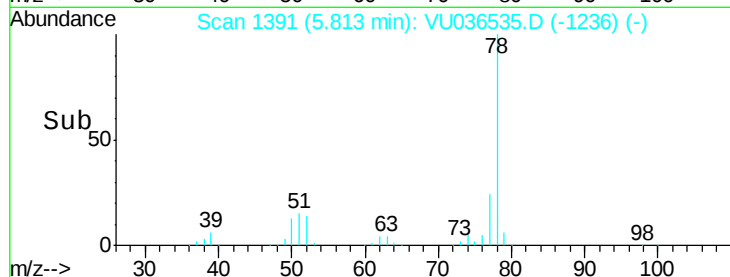
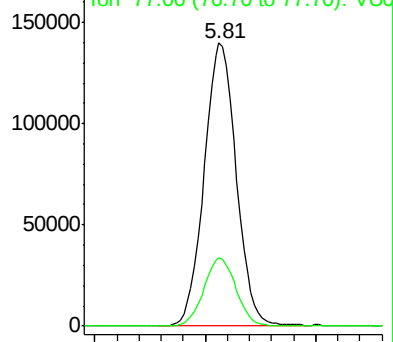
Ion Ratio Lower Upper

78 100

77 24.2 19.4 29.0



Abundance Ion 78.10 (77.80 to 78.80): VU036535.D (-1236) (-)



#36

1,2-Dichloroethane

Concen: 6.649 ug/l

RT: 5.84 min Scan# 1399

Delta R.T. -0.00 min

Lab File: VU036535.D

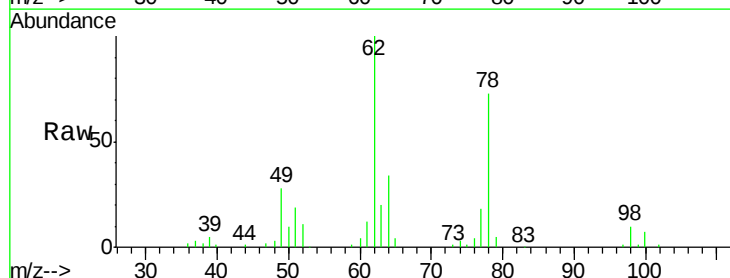
Acq: 23 Jan 2020 12:38

Tgt Ion: 62 Resp: 73558

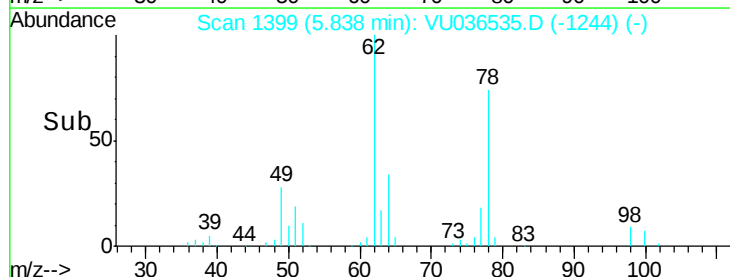
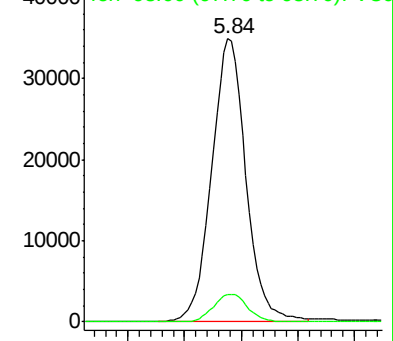
Ion Ratio Lower Upper

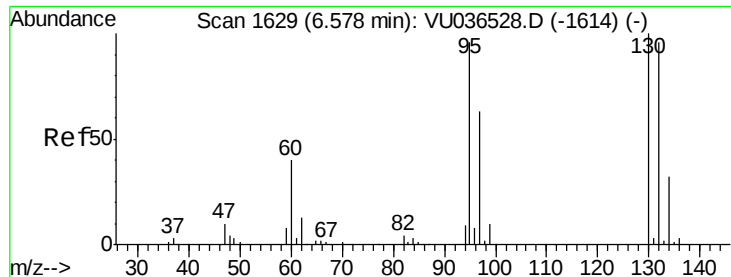
62 100

98 9.7 7.8 11.8



Abundance Ion 62.00 (61.70 to 62.70): VU036535.D (-1244) (-)

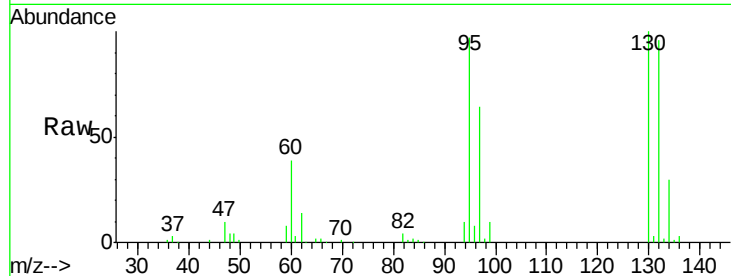




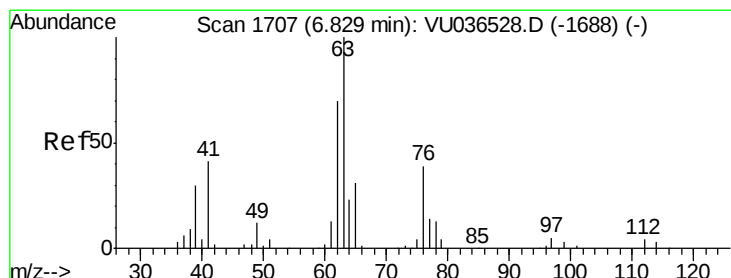
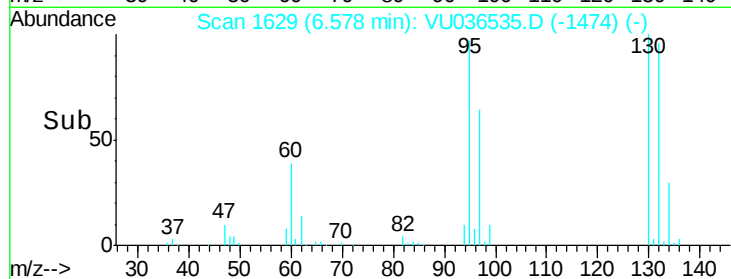
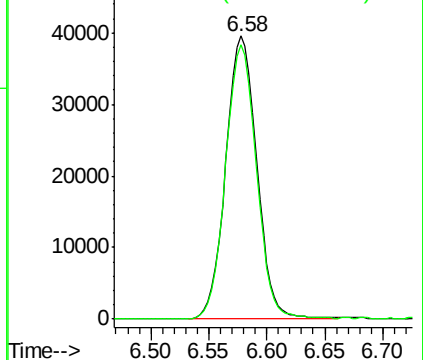
#37
 Trichloroethene
 Concen: 6.504 ug/l
 RT: 6.58 min Scan# 1629
 Delta R.T. -0.00 min
 Lab File: VU036535.D
 Acq: 23 Jan 2020 12:38

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WSDL

Tot Ion:130 Resp: 73789
 Ion Ratio Lower Upper
 130 100
 95 96.8 77.0 115.4

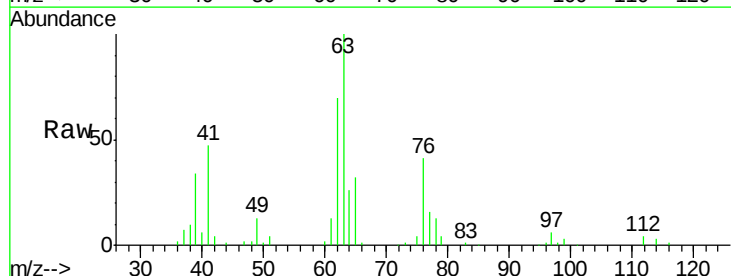


Abundance Ion 129.90 (129.60 to 130.60): VU036528.D (-1614) (-)
 Ion 94.90 (94.60 to 95.60): VU036528.D (-1614) (-)

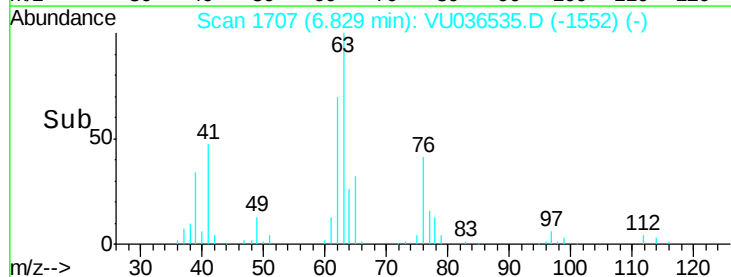
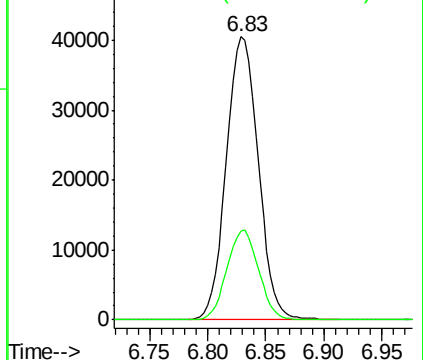


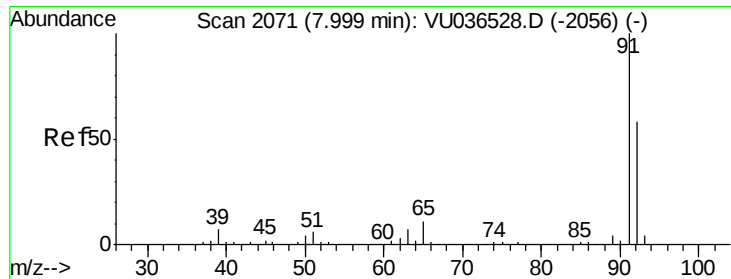
#38
 1,2-Dichloropropane
 Concen: 7.500 ug/l
 RT: 6.83 min Scan# 1707
 Delta R.T. -0.00 min
 Lab File: VU036535.D
 Acq: 23 Jan 2020 12:38

Tgt Ion: 63 Resp: 77495
 Ion Ratio Lower Upper
 63 100
 65 31.6 24.7 37.1



Abundance Ion 63.00 (62.70 to 63.70): VU036528.D (-1688) (-)
 Ion 65.00 (64.70 to 65.70): VU036528.D (-1688) (-)





#49

Toluene

Concen: 3.468 ug/l

RT: 8.00 min Scan# 2071

Delta R.T. -0.00 min

Lab File: VU036535.D

Acq: 23 Jan 2020 12:38

Instrument :

MSVOA_U

ClientSampleId :

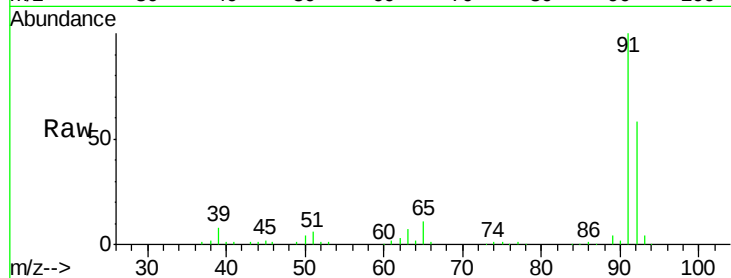
PT-RVOA-WSDL

Tot Ion: 92 Resp: 90981

Ion Ratio Lower Upper

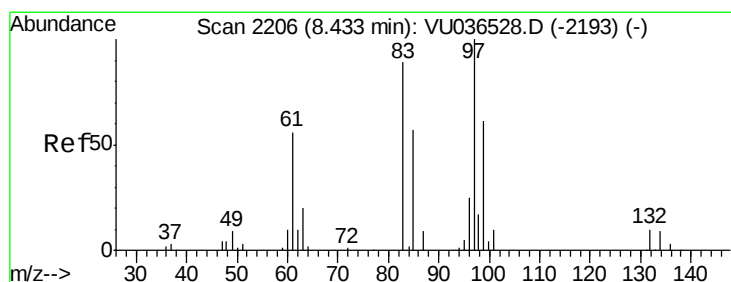
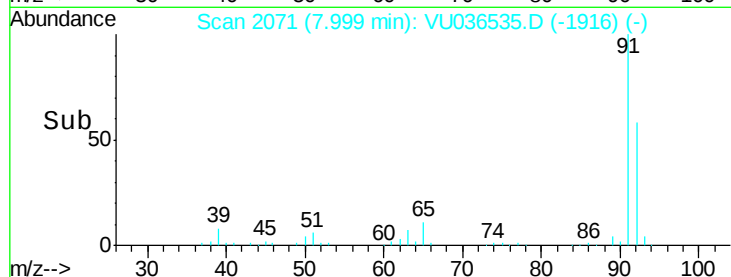
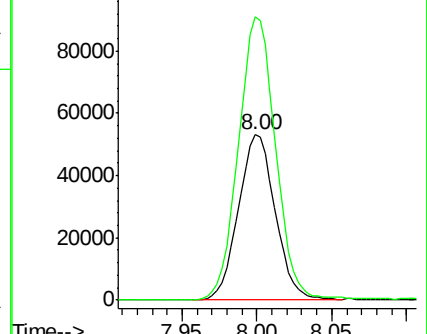
92 100

91 174.0 139.1 208.7



Abundance Ion 92.00 (91.70 to 92.70): VU036528.D (-2056) (-)

Ion 91.00 (90.70 to 91.70): VU036528.D (-2056) (-)



#52

1,1,2-Trichloroethane

Concen: 3.305 ug/l

RT: 8.43 min Scan# 2206

Delta R.T. -0.00 min

Lab File: VU036535.D

Acq: 23 Jan 2020 12:38

Tgt Ion: 97 Resp: 25288

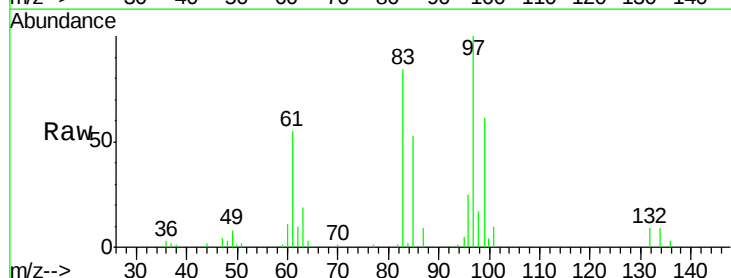
Ion Ratio Lower Upper

97 100

83 84.4 70.9 106.3

85 53.3 45.6 68.4

99 61.2 51.0 76.4

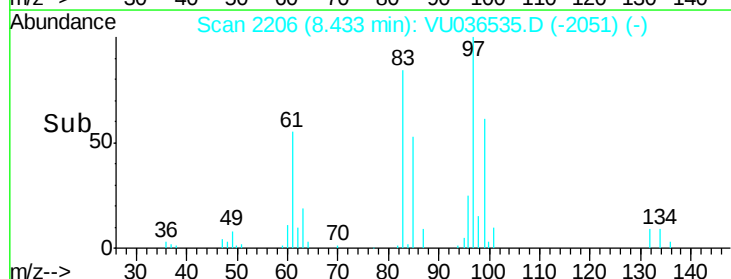
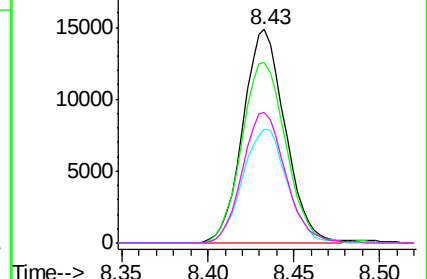


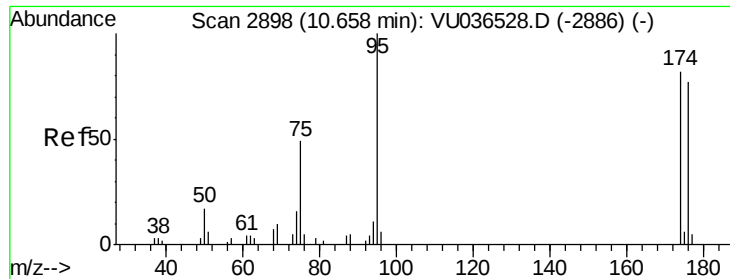
Abundance Ion 97.00 (96.70 to 97.70): VU036528.D (-2193) (-)

Ion 82.95 (82.65 to 83.65): VU036528.D (-2193) (-)

Ion 84.95 (84.65 to 85.65): VU036528.D (-2193) (-)

Ion 98.95 (98.65 to 99.65): VU036528.D (-2193) (-)

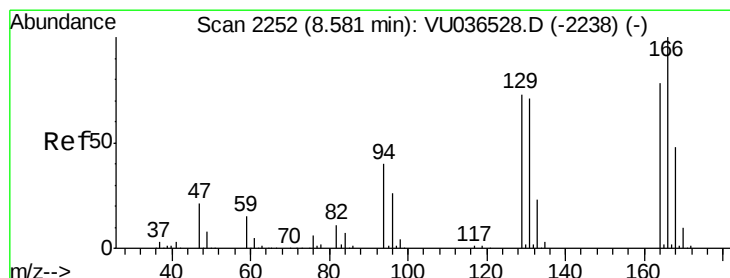
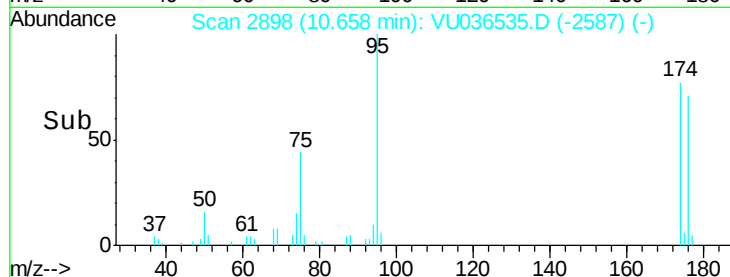
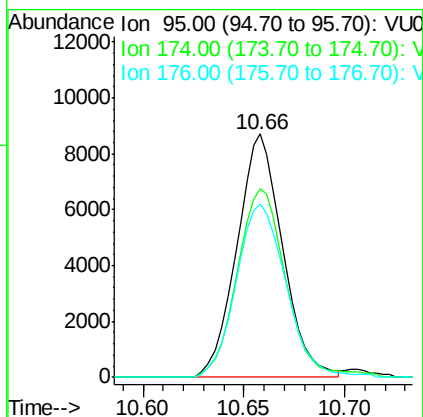
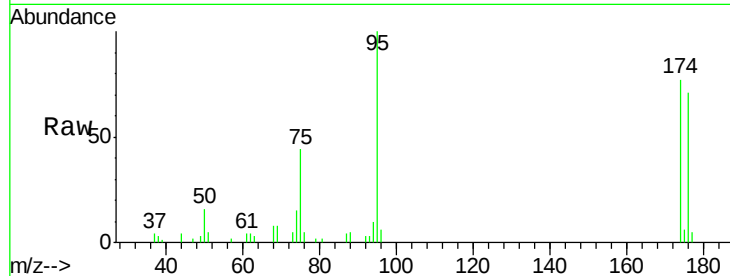




#57
4-Bromofluorobenzene
Concen: 0.986 ug/l
RT: 10.66 min Scan# 2898
Delta R.T. -0.00 min
Lab File: VU036535.D
Acq: 23 Jan 2020 12:38

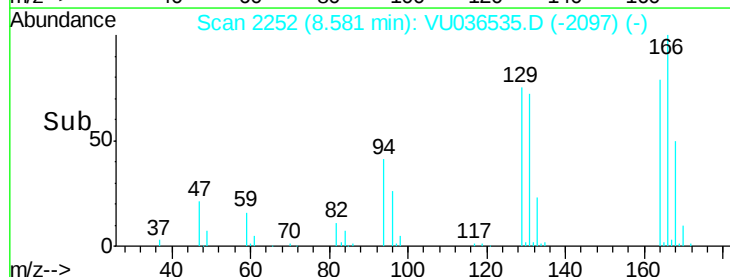
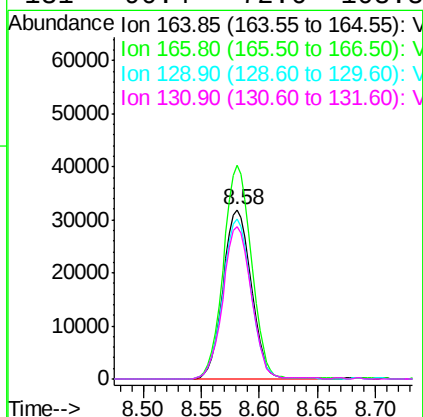
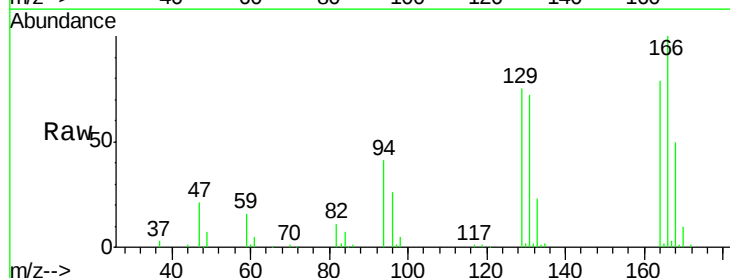
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

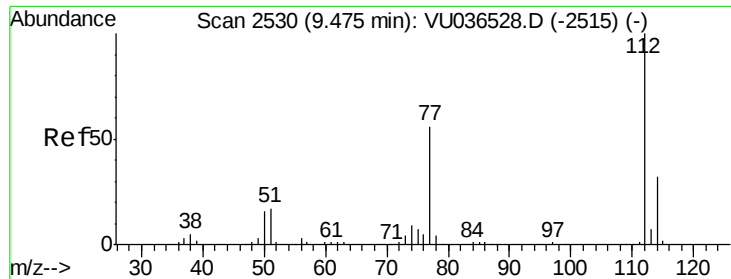
Tot Ion: 95 Resp: 13803
Ion Ratio Lower Upper
95 100
174 82.9 64.7 97.1
176 78.1 60.6 91.0



#58
Tetrachloroethene
Concen: 4.772 ug/l
RT: 8.58 min Scan# 2252
Delta R.T. -0.00 min
Lab File: VU036535.D
Acq: 23 Jan 2020 12:38

Tgt Ion: 164 Resp: 54114
Ion Ratio Lower Upper
164 100
166 126.4 102.0 153.0
129 95.0 74.9 112.3
131 90.4 72.6 108.8





#59

Chlorobenzene

Concen: 3.303 ug/l

RT: 9.47 min Scan# 2530

Delta R.T. -0.00 min

Lab File: VU036535.D

Acq: 23 Jan 2020 12:38

Instrument :

MSVOA_U

ClientSampleId :

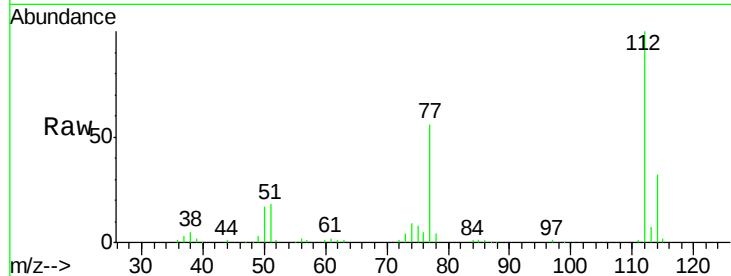
PT-RVOA-WSDL

Tot Ion:112 Resp: 96508

Ion Ratio Lower Upper

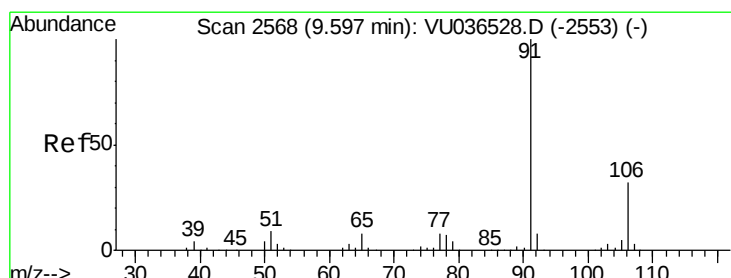
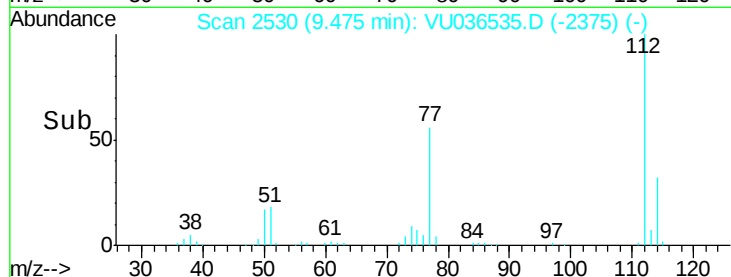
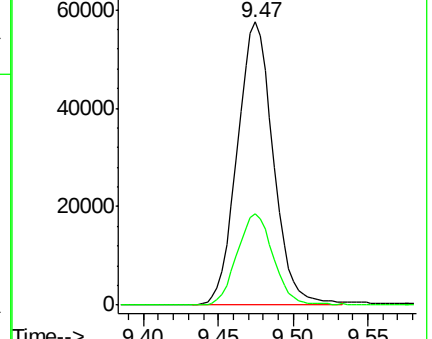
112 100

114 32.3 25.8 38.8



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#63

Ethyl Benzene

Concen: 3.244 ug/l

RT: 9.60 min Scan# 2568

Delta R.T. -0.00 min

Lab File: VU036535.D

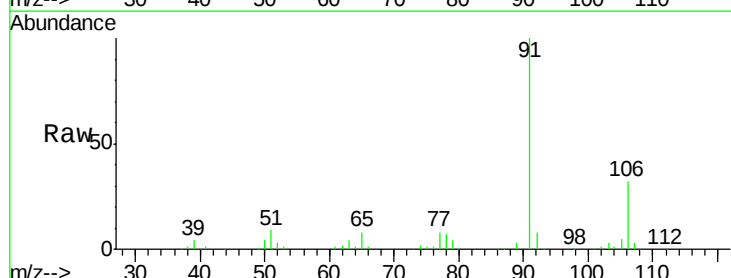
Acq: 23 Jan 2020 12:38

Tgt Ion: 91 Resp: 158853

Ion Ratio Lower Upper

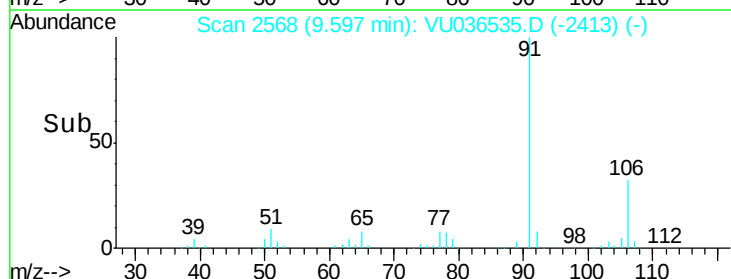
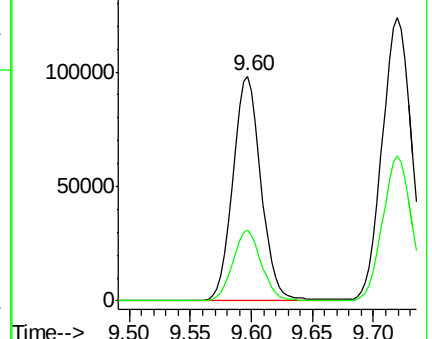
91 100

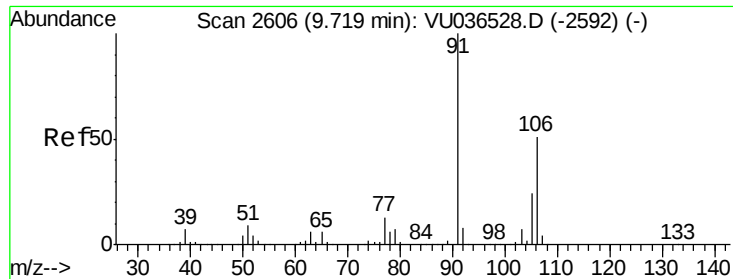
106 31.6 26.0 39.0



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V

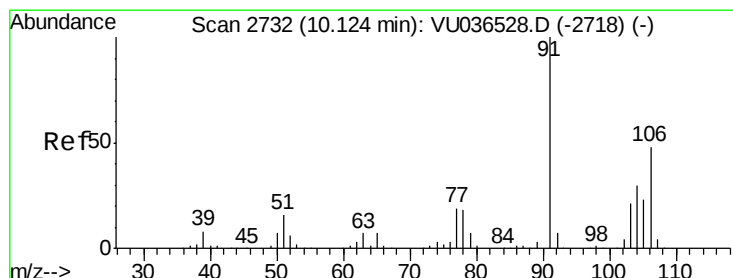
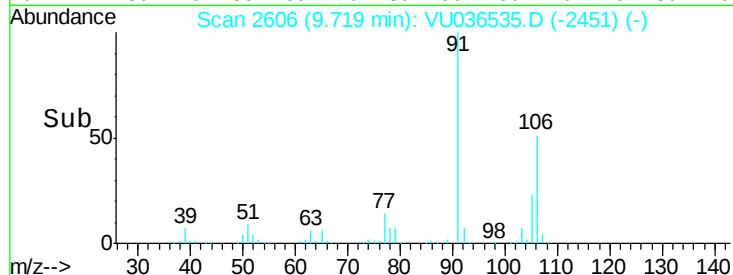
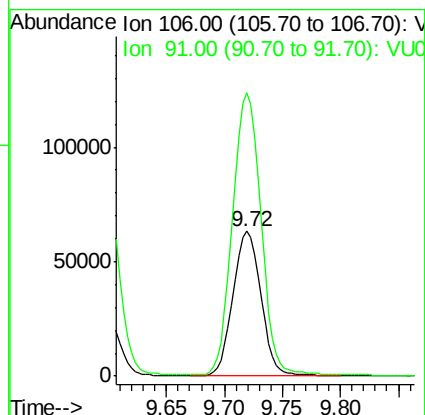
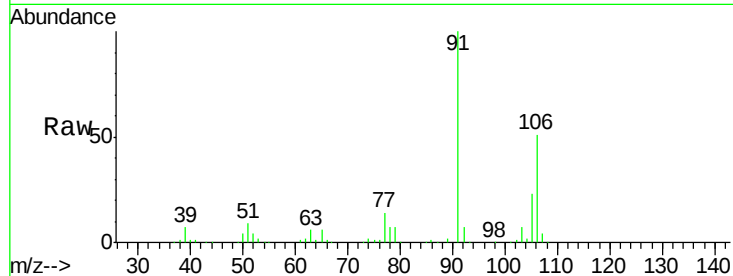




#64
m/p-Xylenes
Concen: 5.400 ug/l
RT: 9.72 min Scan# 2606
Delta R.T. -0.00 min
Lab File: VU036535.D
Acq: 23 Jan 2020 12:38

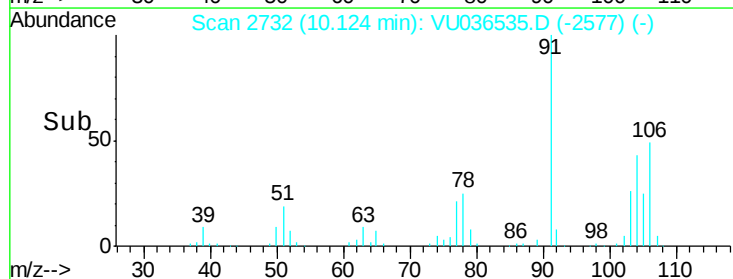
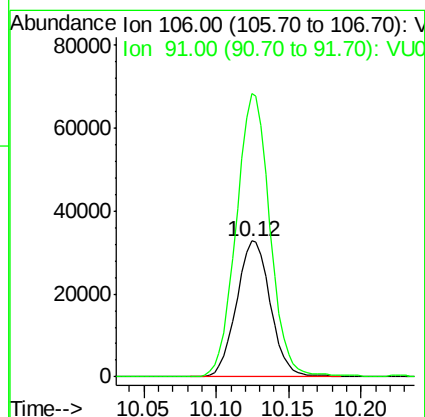
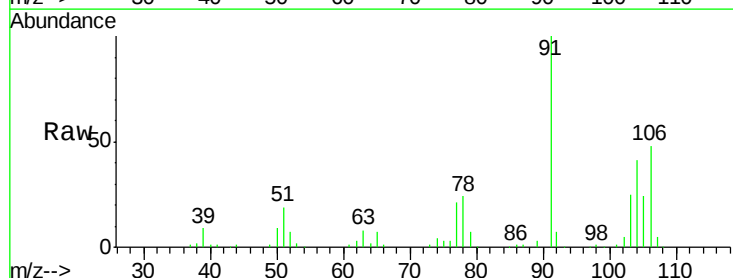
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

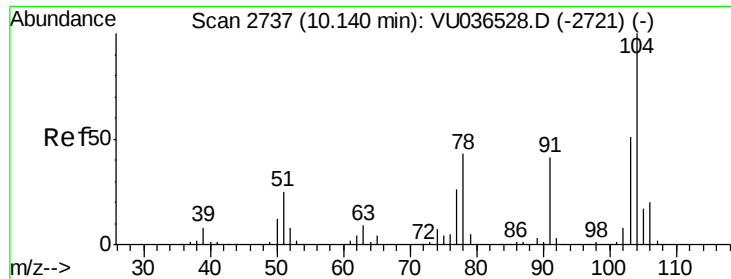
Tot Ion:106 Resp: 104675
Ion Ratio Lower Upper
106 100
91 199.0 158.2 237.4



#65
o-Xylene
Concen: 2.848 ug/l
RT: 10.12 min Scan# 2732
Delta R.T. -0.00 min
Lab File: VU036535.D
Acq: 23 Jan 2020 12:38

Tgt Ion:106 Resp: 53451
Ion Ratio Lower Upper
106 100
91 206.1 104.3 312.9

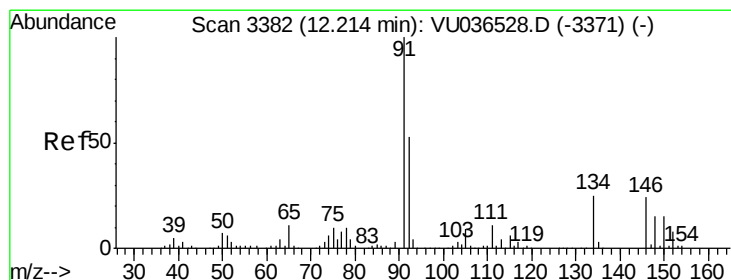
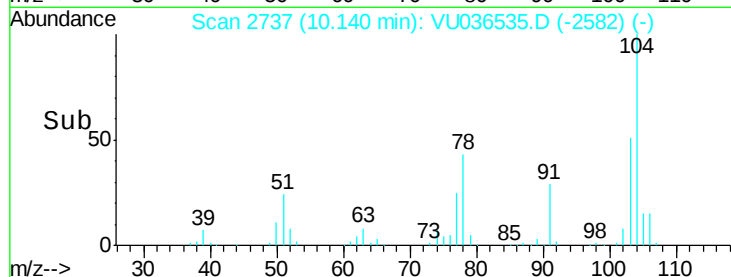
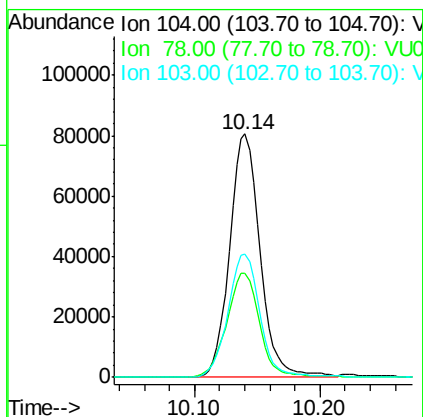
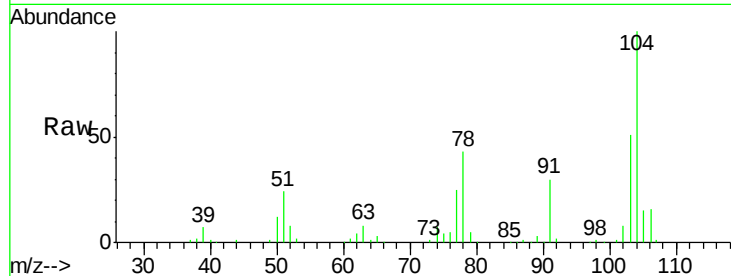




#66
Stvrene
Concen: 4.326 ug/l
RT: 10.14 min Scan# 2737
Delta R.T. -0.00 min
Lab File: VU036535.D
Acq: 23 Jan 2020 12:38

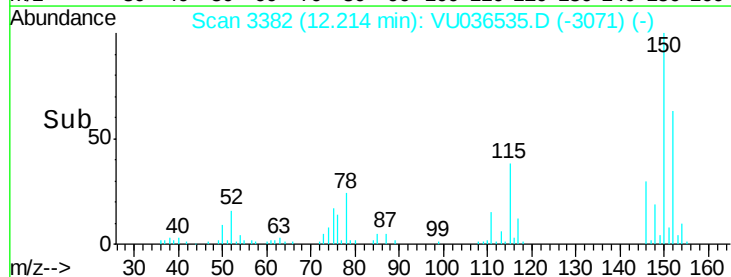
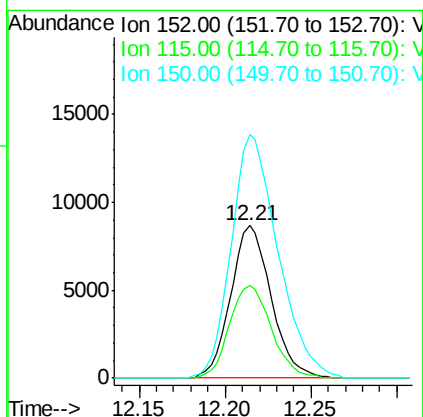
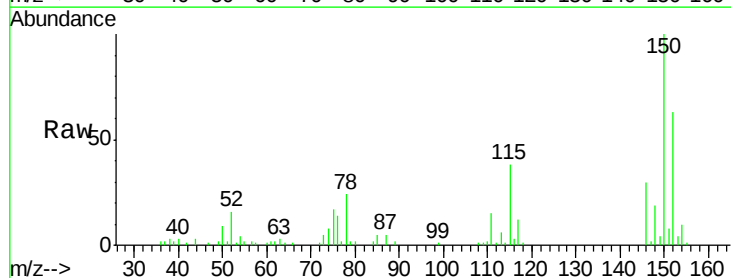
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

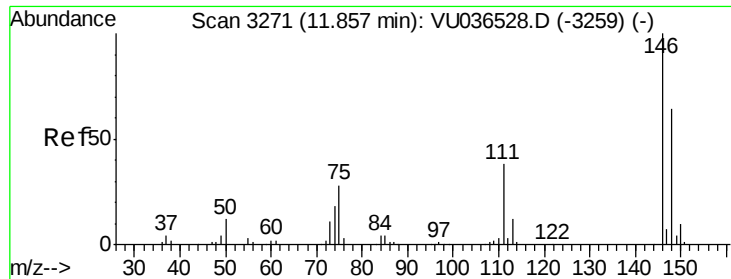
Tot Ion:104 Resp: 135990
Ion Ratio Lower Upper
104 100
78 46.0 38.6 57.8
103 54.1 44.4 66.6



#68
1,2-Dichlorobenzene-d4
Concen: 0.991 ug/l
RT: 12.21 min Scan# 3382
Delta R.T. -0.00 min
Lab File: VU036535.D
Acq: 23 Jan 2020 12:38

Tgt Ion:152 Resp: 14200
Ion Ratio Lower Upper
152 100
115 62.5 0.0 241.8
150 183.8 0.0 652.4

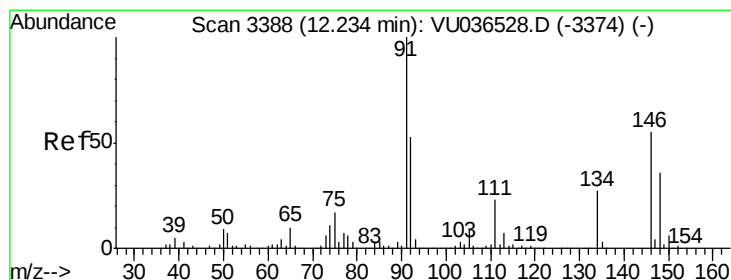
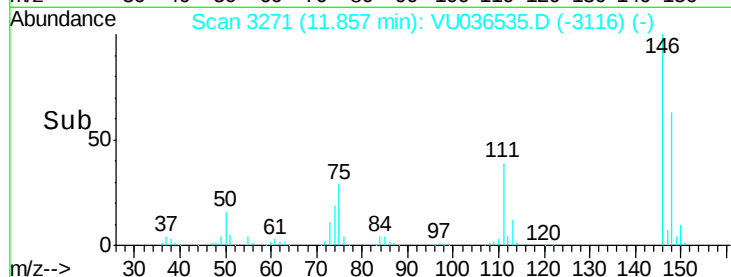
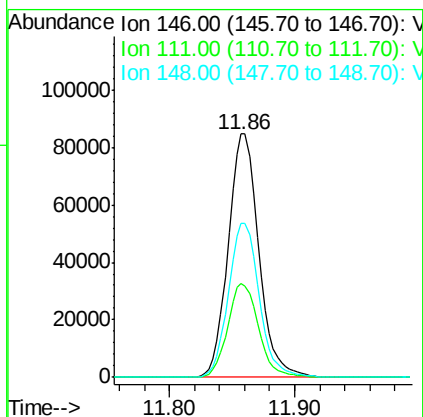
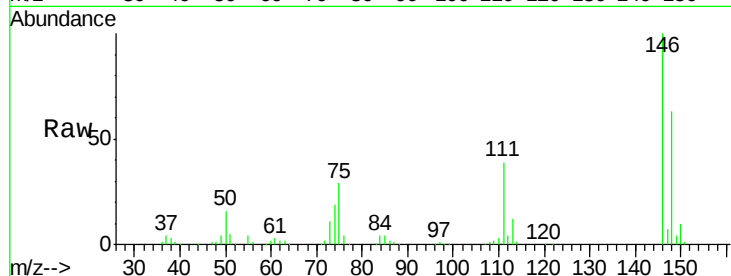




#83
 1,4-Dichlorobenzene
 Concen: 6.043 ug/l
 RT: 11.86 min Scan# 3271
 Delta R.T. -0.00 min
 Lab File: VU036535.D
 Acq: 23 Jan 2020 12:38

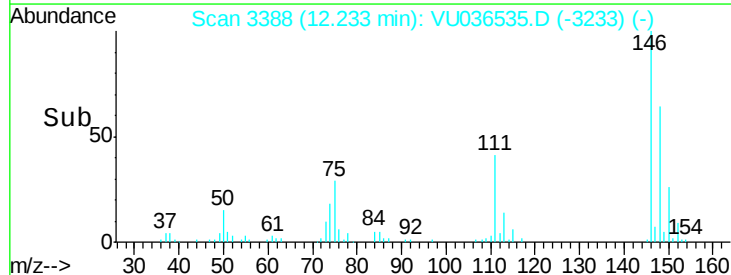
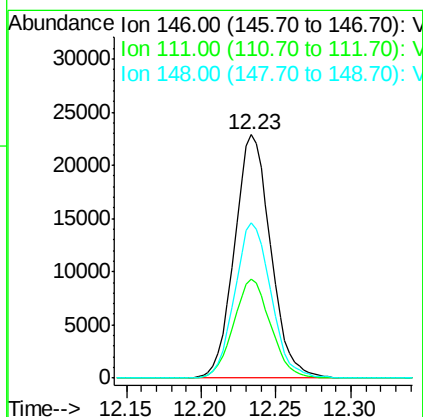
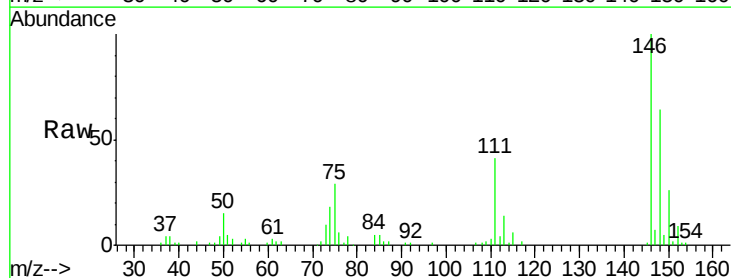
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WSDL

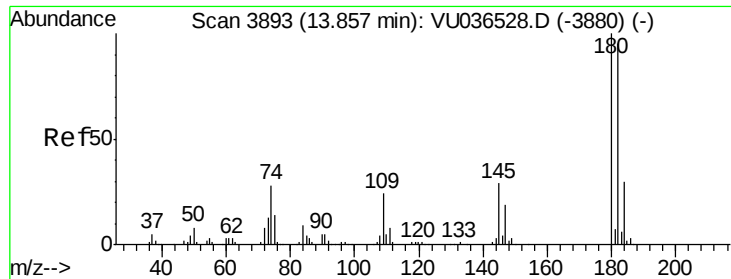
Tot Ion:146 Resp: 143567
 Ion Ratio Lower Upper
 146 100
 111 38.9 30.5 45.7
 148 63.8 51.0 76.4



#85
 1,2-Dichlorobenzene
 Concen: 1.694 ug/l
 RT: 12.23 min Scan# 3388
 Delta R.T. -0.00 min
 Lab File: VU036535.D
 Acq: 23 Jan 2020 12:38

Tgt Ion:146 Resp: 38534
 Ion Ratio Lower Upper
 146 100
 111 41.5 20.8 62.4
 148 63.9 32.0 96.2

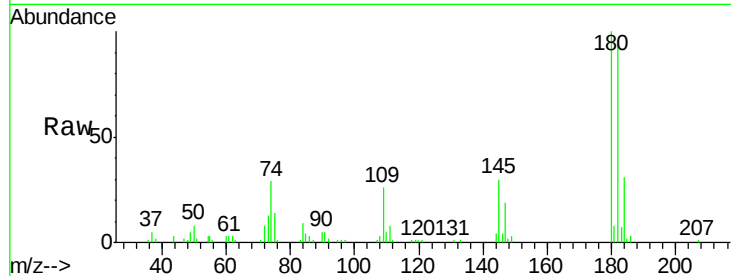




#87
 1,2,4-Trichlorobenzene
 Concen: 1.985 ug/l
 RT: 13.86 min Scan# 3894
 Delta R.T. 0.00 min
 Lab File: VU036535.D
 Acq: 23 Jan 2020 12:38

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WSDL

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.8	75.9	113.9
145	30.2	23.4	35.2



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

