

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU020819\
 Data File : VU029381.D
 Acq On : 08 Feb 2019 16:24
 Operator : JC/SP
 Sample : K1161-07DL 5X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WSDL

Quant Time: Feb 18 13:11:36 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

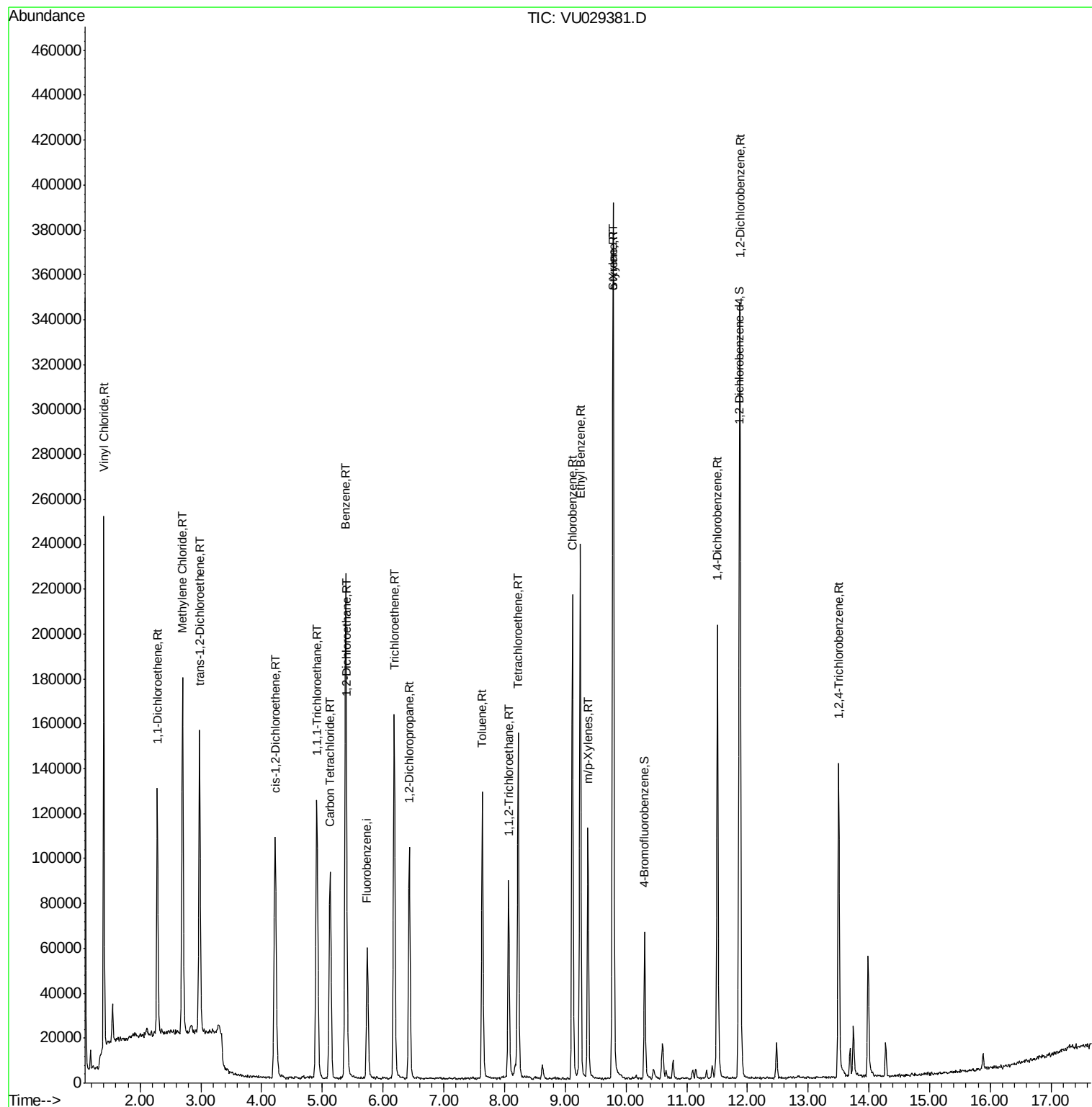
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	5.74	96	57297	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.31	95	21874	0.98	ug/l	0.00
Spiked Amount 1.000			Recovery	=	98.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	23695	1.03	ug/l	0.00
Spiked Amount 1.000			Recovery	=	103.00%	
Target Compounds						
					Ovalue	
4) Vinyl Chloride	1.40	62	141680	6.185	ug/l	99
9) 1,1-Dichloroethene	2.28	96	35803	2.166	ug/l	69
15) Methylene Chloride	2.70	84	70934	3.539	ug/l #	78
16) trans-1,2-Dichloroethene	2.98	96	52695	2.851	ug/l #	76
22) cis-1,2-Dichloroethene	4.22	96	62190	3.572	ug/l	65
28) 1,1,1-Trichloroethane	4.91	97	98217	3.720	ug/l	95
30) Carbon Tetrachloride	5.13	117	68137	2.851	ug/l	98
35) Benzene	5.39	78	225469	3.557	ug/l	97
36) 1,2-Dichloroethane	5.41	62	11925	0.622	ug/l #	91
37) Trichloroethene	6.18	130	60216	3.311	ug/l	82
38) 1,2-Dichloropropane	6.43	63	40308	2.445	ug/l	97
49) Toluene	7.64	92	57870	1.427	ug/l	95
52) 1,1,2-Trichloroethane	8.07	97	27717	2.383	ug/l	98
58) Tetrachloroethene	8.22	164	35014	2.069	ug/l	97
59) Chlorobenzene	9.12	112	123548	2.704	ug/l	98
63) Ethyl Benzene	9.25	91	171902	2.166	ug/l	94
64) m/p-Xylenes	9.38	106	33199	1.077	ug/l	92
65) o-Xylene	9.78	106	19636	0.649	ug/l	86
66) Styrene	9.79	104	185161	3.670	ug/l #	85
83) 1,4-Dichlorobenzene	11.51	146	90454	2.362	ug/l	97
85) 1,2-Dichlorobenzene	11.88	146	142852	3.929	ug/l	97
87) 1,2,4-Trichlorobenzene	13.50	180	50128	1.963	ug/l	98
-----	-----	-----	-----	-----	-----	-----

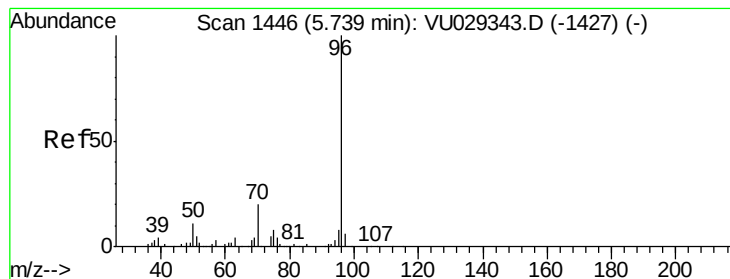
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1446

Delta R.T. 0.00 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WSDL

Tot Ion: 96 Resp: 57297

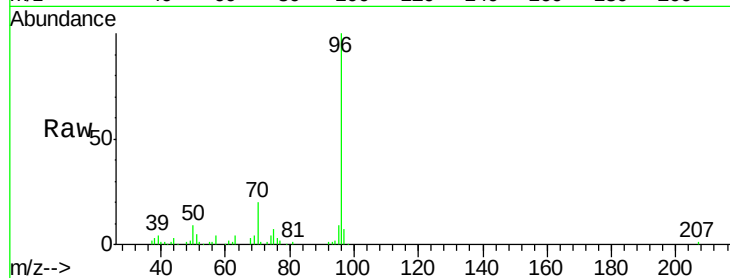
Ion Ratio Lower Upper

96 100

70 18.3 16.2 24.2

95 8.9 7.4 11.2

97 6.7 0.0 0.0#

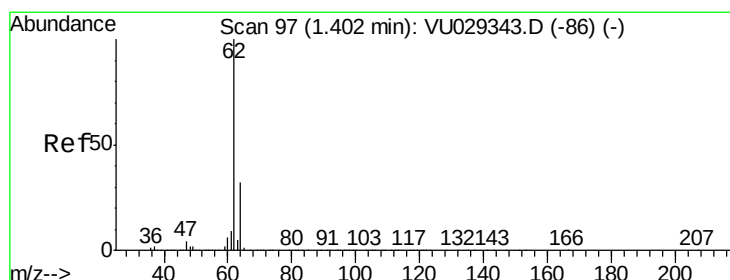
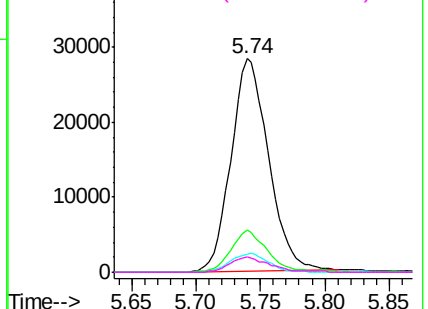
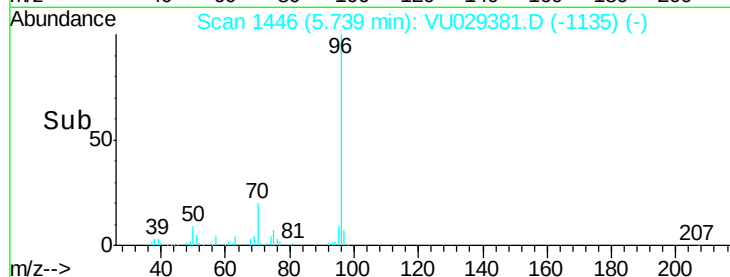


Abundance Ion 96.00 (95.70 to 96.70): VU0

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



#4

Vinyl Chloride

Concen: 6.185 ug/l

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU029381.D

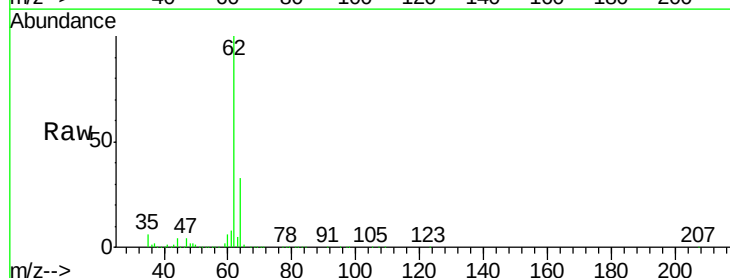
Acq: 08 Feb 2019 16:24

Tgt Ion: 62 Resp: 141680

Ion Ratio Lower Upper

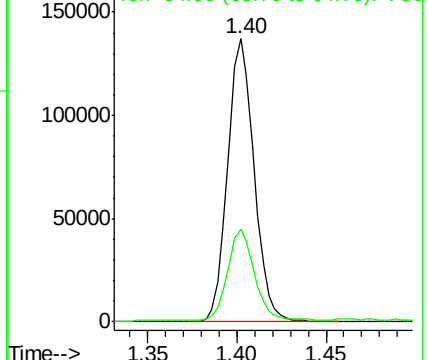
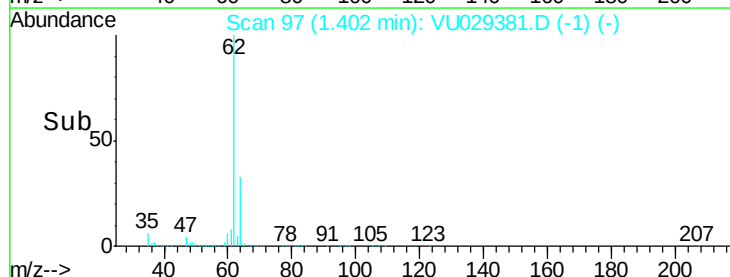
62 100

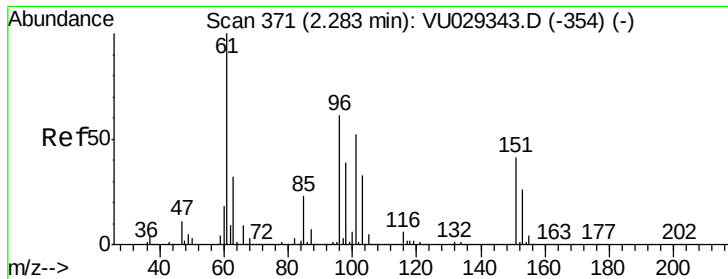
64 32.2 25.2 37.8



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0





#9

1,1-Dichloroethene

Concen: 2.166 ug/l

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WSDL

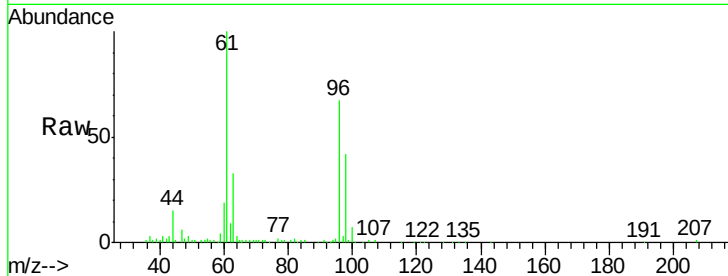
Tot Ion: 96 Resp: 35803

Ion Ratio Lower Upper

96 100

61 151.7 0.0 641.4

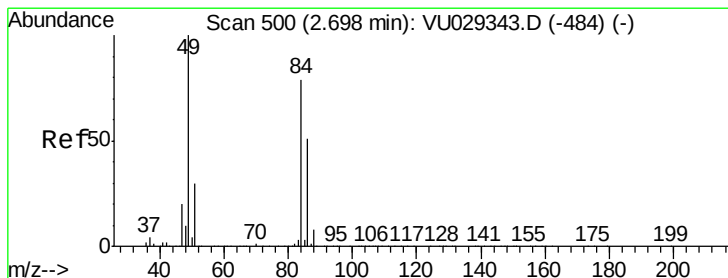
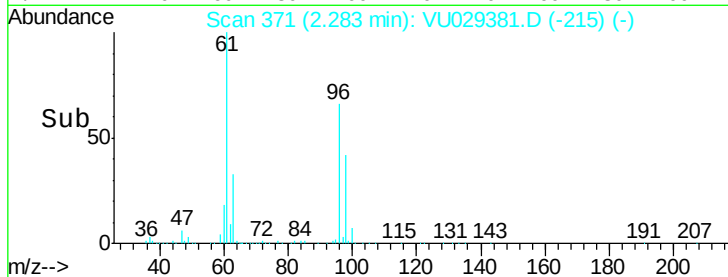
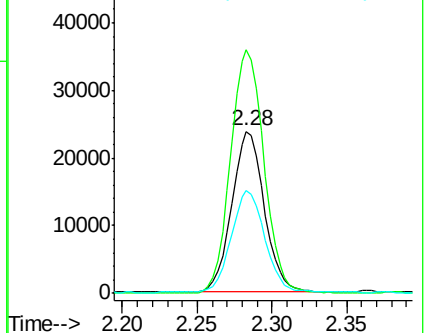
98 63.7 0.0 122.6



Abundance Ion 96.00 (95.70 to 96.70): VU029343.D (-354) (-)

Ion 61.00 (60.70 to 61.70): VU029343.D (-354) (-)

Ion 98.00 (97.70 to 98.70): VU029343.D (-354) (-)



#15

Methylene Chloride

Concen: 3.539 ug/l

RT: 2.70 min Scan# 500

Delta R.T. 0.00 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

Tgt Ion: 84 Resp: 70934

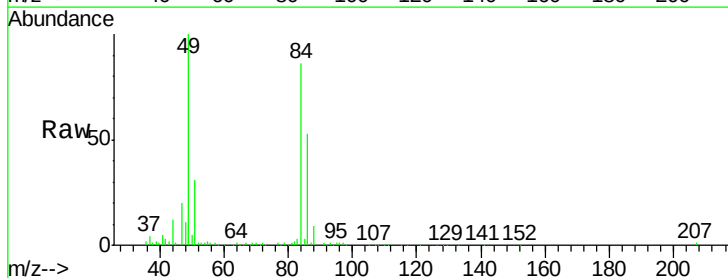
Ion Ratio Lower Upper

84 100

49 116.6 127.0 190.6#

51 35.7 0.0 93.4

86 61.7 50.6 75.8

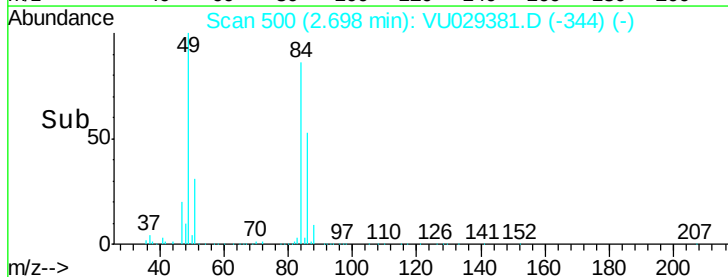
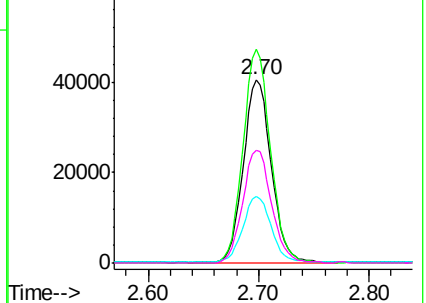


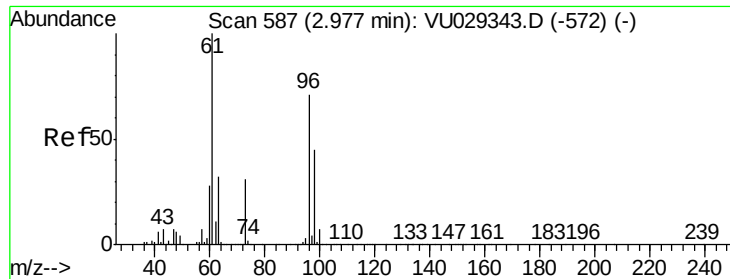
Abundance Ion 84.00 (83.70 to 84.70): VU029343.D (-484) (-)

Ion 49.00 (48.70 to 49.70): VU029343.D (-484) (-)

Ion 51.00 (50.70 to 51.70): VU029343.D (-484) (-)

Ion 86.00 (85.70 to 86.70): VU029343.D (-484) (-)

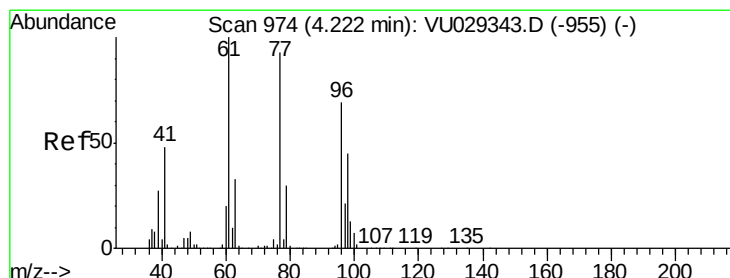
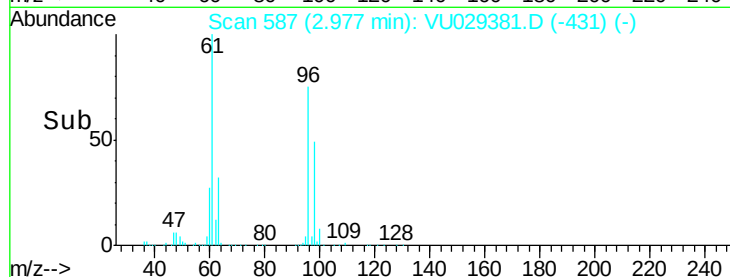
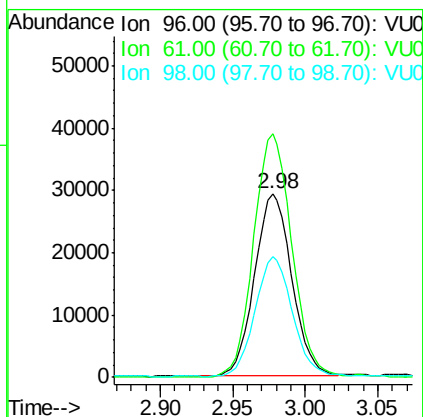
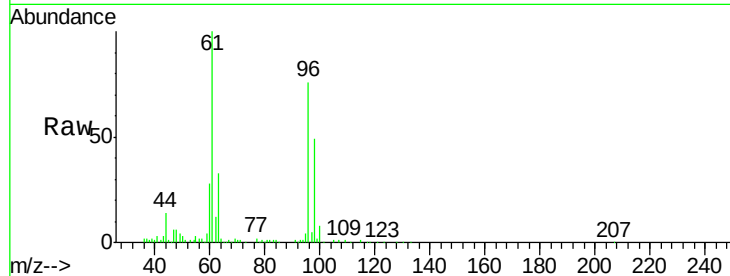




#16
trans-1,2-Dichloroethene
Concen: 2.851 ug/l
RT: 2.98 min Scan# 587
Delta R.T. 0.00 min
Lab File: VU029381.D
Acq: 08 Feb 2019 16:24

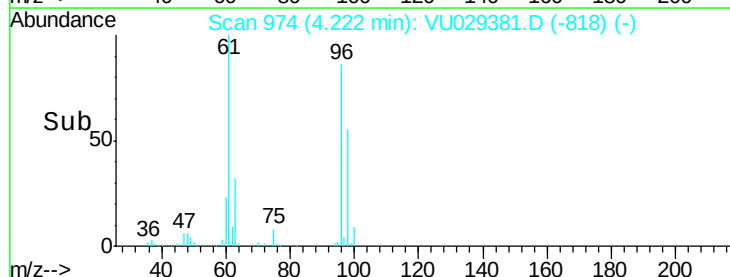
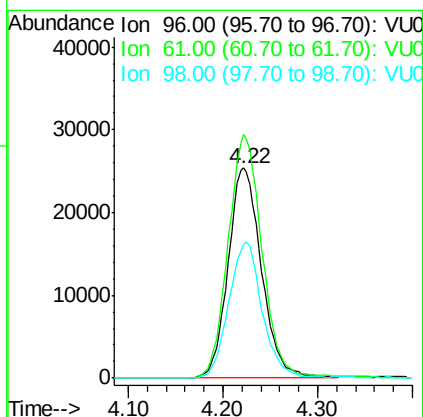
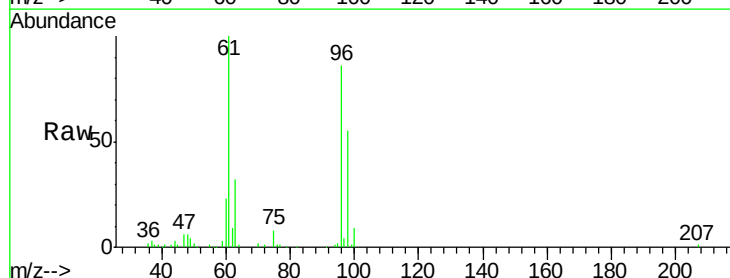
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

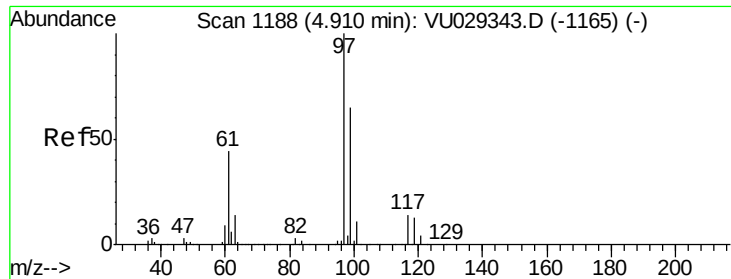
Tot Ion: 96 Resp: 52695
Ion Ratio Lower Upper
96 100
61 133.2 140.6 210.8#
98 65.1 49.3 73.9



#22
cis-1,2-Dichloroethene
Concen: 3.572 ug/l
RT: 4.22 min Scan# 974
Delta R.T. 0.00 min
Lab File: VU029381.D
Acq: 08 Feb 2019 16:24

Tgt Ion: 96 Resp: 62190
Ion Ratio Lower Upper
96 100
61 117.0 0.0 460.0
98 64.2 32.6 97.7

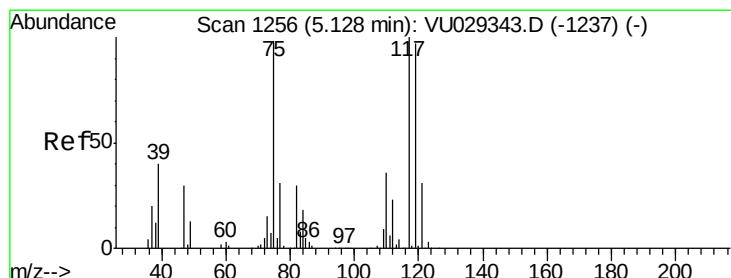
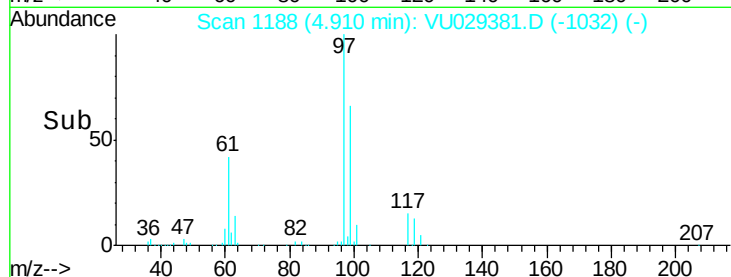
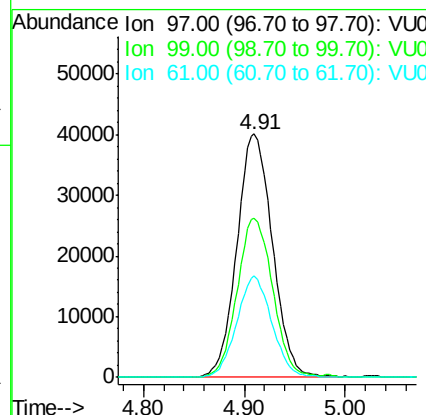
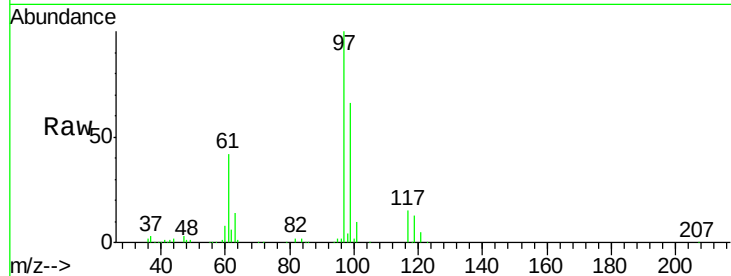




#28
 1,1,1-Trichloroethane
 Concen: 3.720 ug/l
 RT: 4.91 min Scan# 1188
 Delta R.T. 0.00 min
 Lab File: VU029381.D
 Acq: 08 Feb 2019 16:24

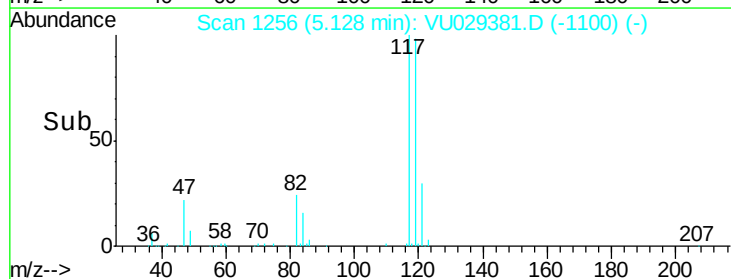
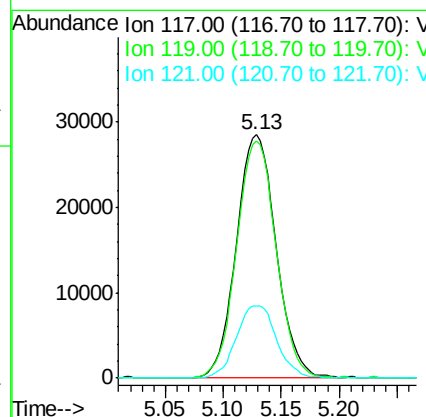
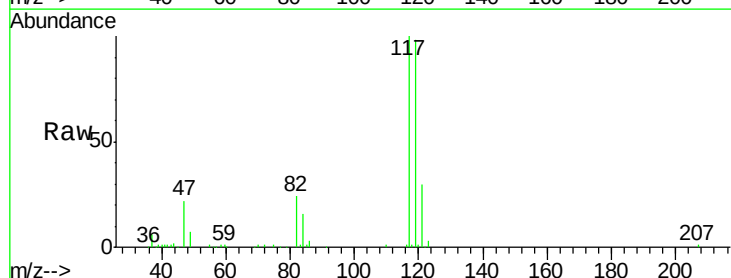
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WSDL

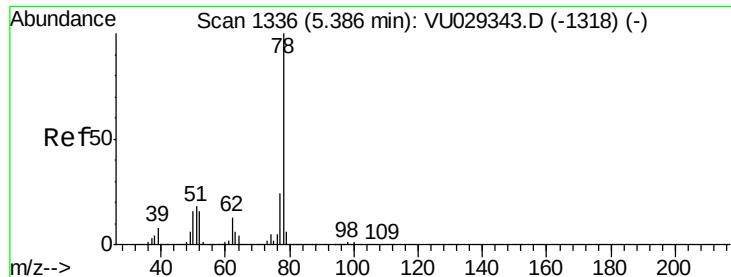
Tot Ion	97	Resp	98217
Ion	Ratio	Lower	Upper
97	100		
99	65.4	32.4	97.2
61	41.0	24.4	73.2



#30
 Carbon Tetrachloride
 Concen: 2.851 ug/l
 RT: 5.13 min Scan# 1256
 Delta R.T. 0.00 min
 Lab File: VU029381.D
 Acq: 08 Feb 2019 16:24

Tgt Ion	117	Resp	68137
Ion	Ratio	Lower	Upper
117	100		
119	97.6	76.8	115.2
121	29.6	24.4	36.6





#35

Benzene

Concen: 3.557 ug/l

RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

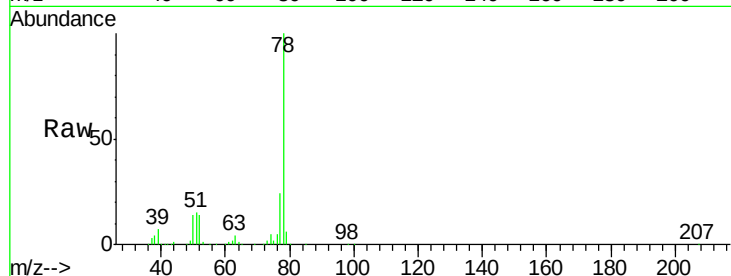
PT-RVOA-WSDL

Tot Ion: 78 Resp: 225469

Ion Ratio Lower Upper

78 100

77 23.5 19.8 29.8



Abundance Ion 78.10 (77.80 to 78.80): VU0

Ion 77.00 (76.70 to 77.70): VU0

5.39

120000

100000

80000

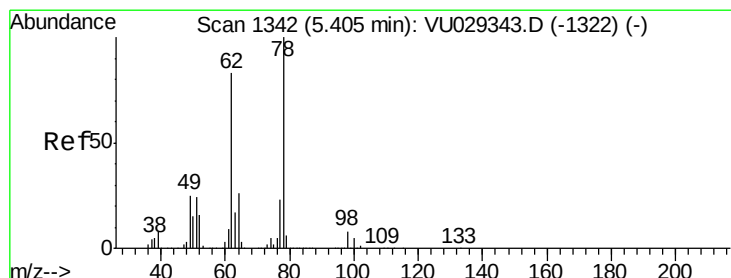
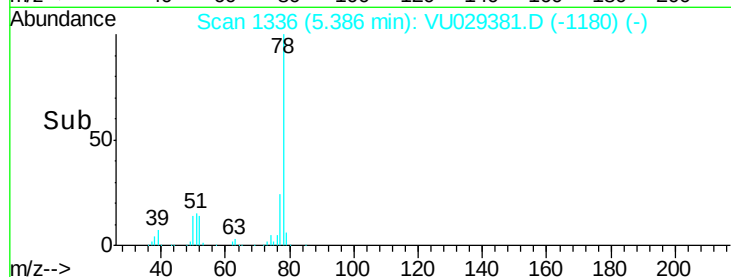
60000

40000

20000

0

Time--> 5.30 5.40 5.50



#36

1,2-Dichloroethane

Concen: 0.622 ug/l

RT: 5.41 min Scan# 1343

Delta R.T. 0.00 min

Lab File: VU029381.D

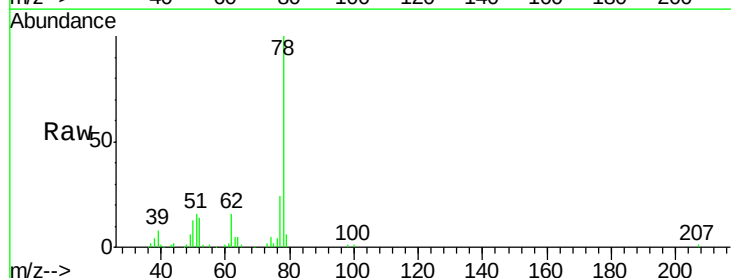
Acq: 08 Feb 2019 16:24

Tgt Ion: 62 Resp: 11925

Ion Ratio Lower Upper

62 100

98 9.1 4.9 7.3#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

5.41

5000

4000

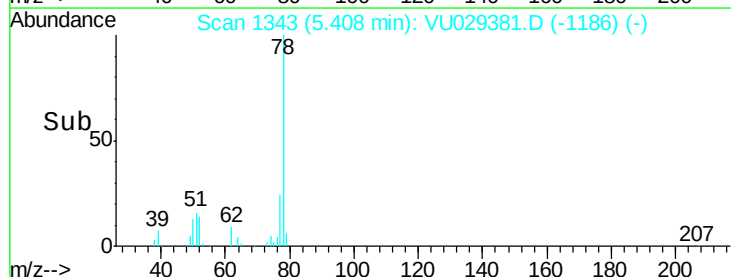
3000

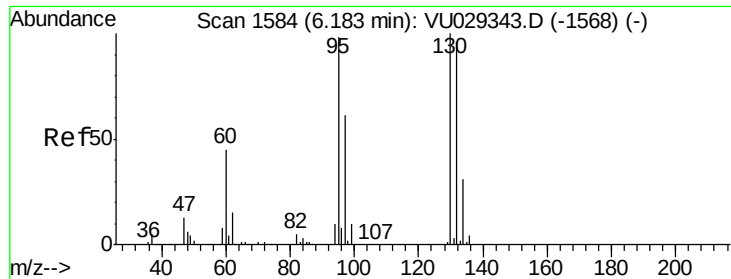
2000

1000

0

Time--> 5.30 5.35 5.40 5.45





#37

Trichloroethene

Concen: 3.311 ug/l

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

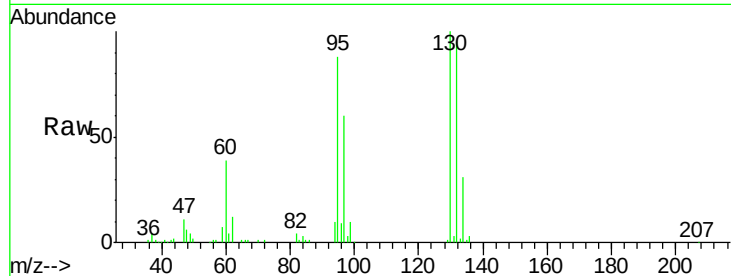
PT-RVOA-WSDL

Tot Ion:130 Resp: 60216

Ion Ratio Lower Upper

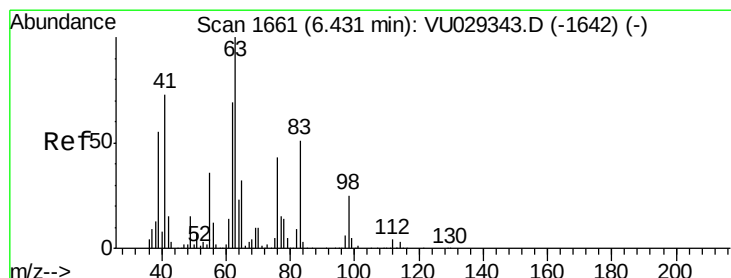
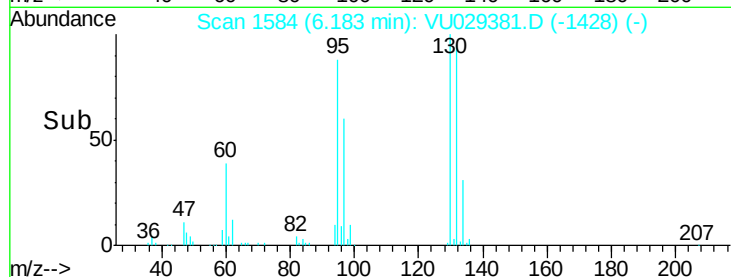
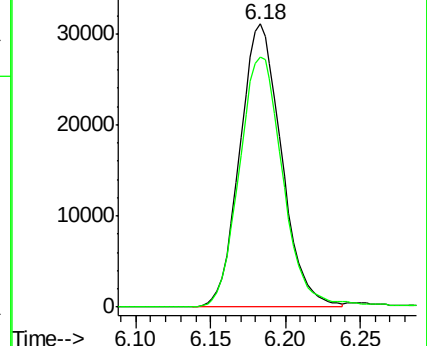
130 100

95 88.4 85.4 128.0



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VU0



#38

1,2-Dichloropropane

Concen: 2.445 ug/l

RT: 6.43 min Scan# 1662

Delta R.T. 0.00 min

Lab File: VU029381.D

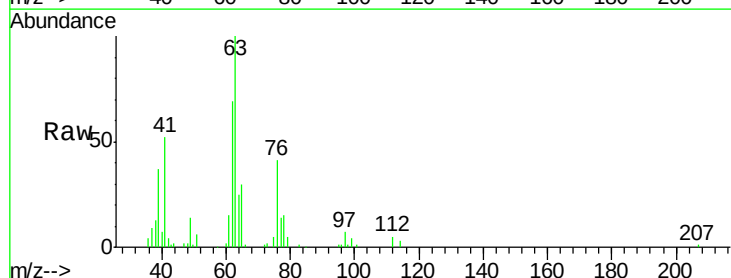
Acq: 08 Feb 2019 16:24

Tgt Ion: 63 Resp: 40308

Ion Ratio Lower Upper

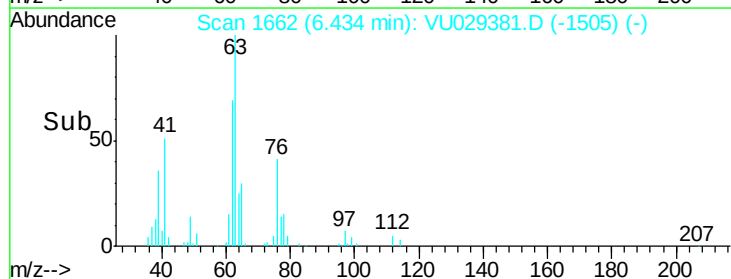
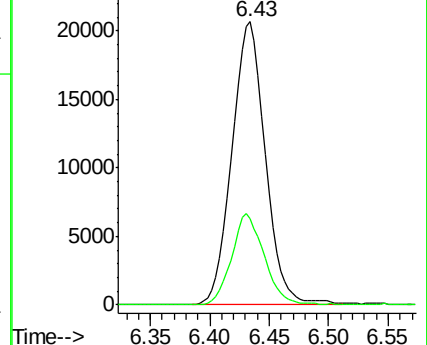
63 100

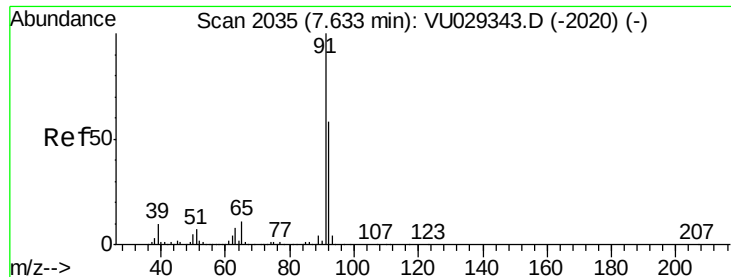
65 30.3 25.5 38.3



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 65.00 (64.70 to 65.70): VU0





#49

Toluene

Concen: 1.427 ug/l

RT: 7.64 min Scan# 2036

Delta R.T. 0.00 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

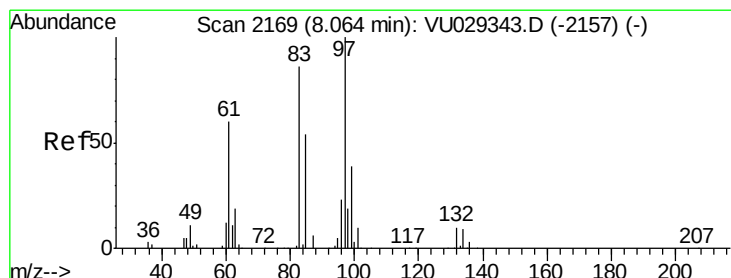
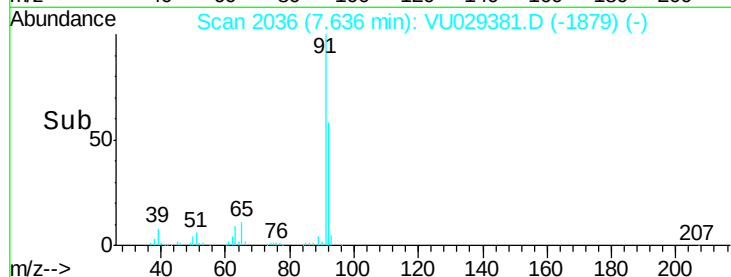
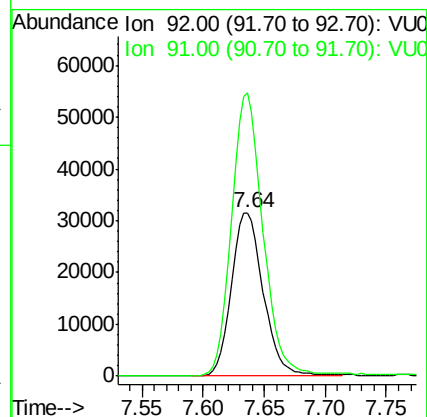
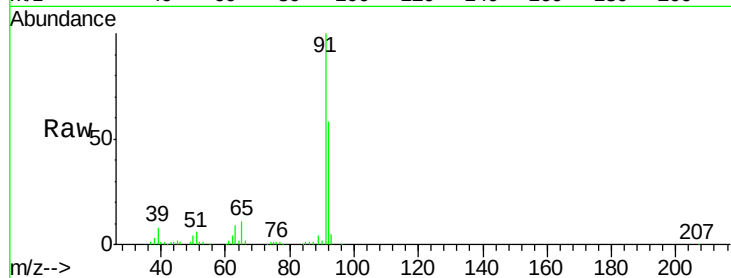
PT-RVOA-WSDL

Tot Ion: 92 Resp: 57870

Ion Ratio Lower Upper

92 100

91 169.4 140.7 211.1



#52

1,1,2-Trichloroethane

Concen: 2.383 ug/l

RT: 8.07 min Scan# 2170

Delta R.T. 0.00 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

Tgt Ion: 97 Resp: 27717

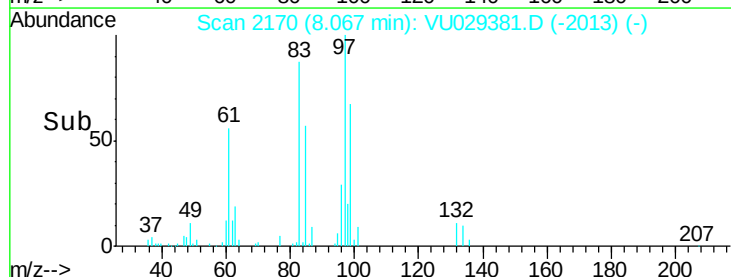
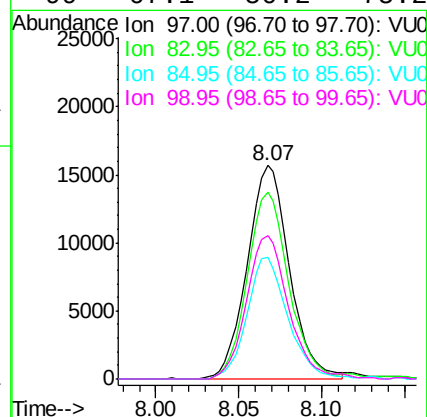
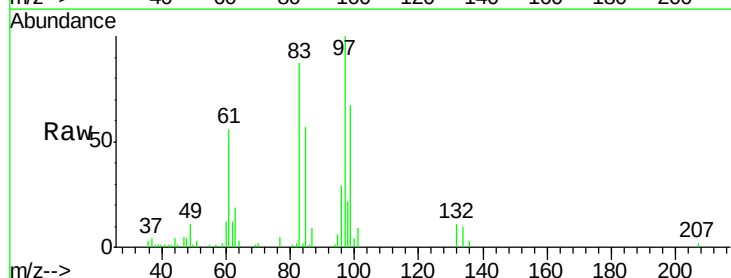
Ion Ratio Lower Upper

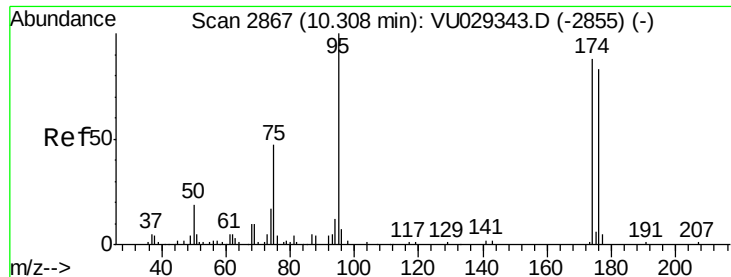
97 100

83 87.2 69.9 104.9

85 56.8 45.8 68.6

99 67.1 50.2 75.2

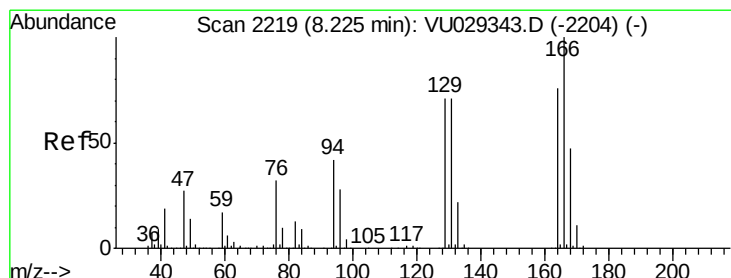
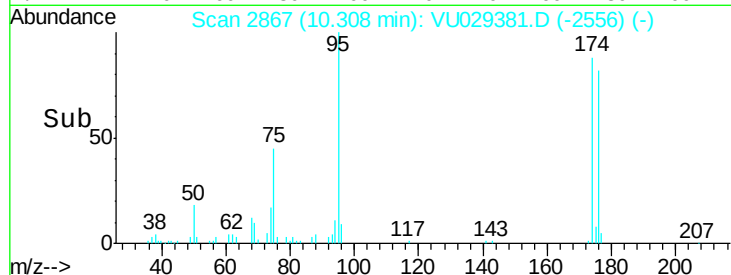
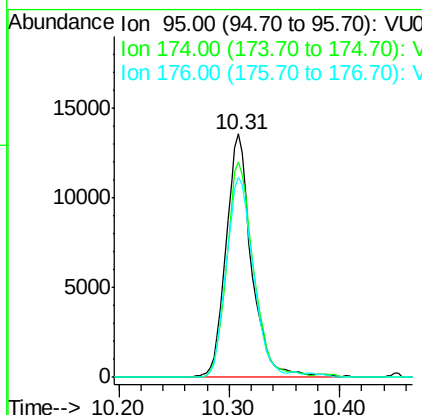
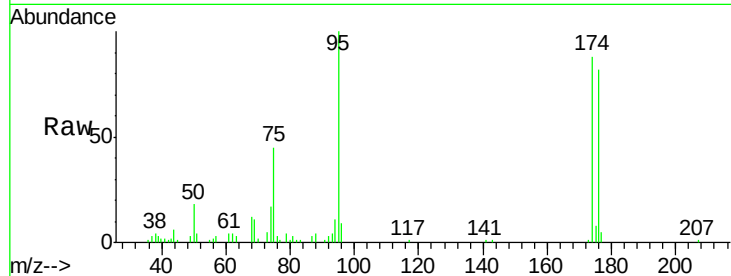




#57
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 10.31 min Scan# 2867
Delta R.T. 0.00 min
Lab File: VU029381.D
Acq: 08 Feb 2019 16:24

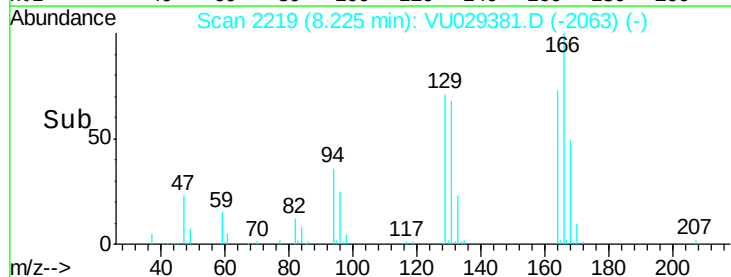
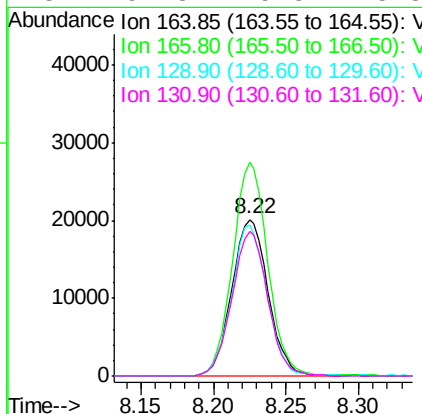
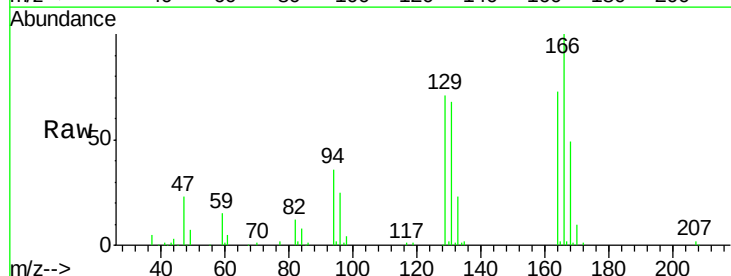
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

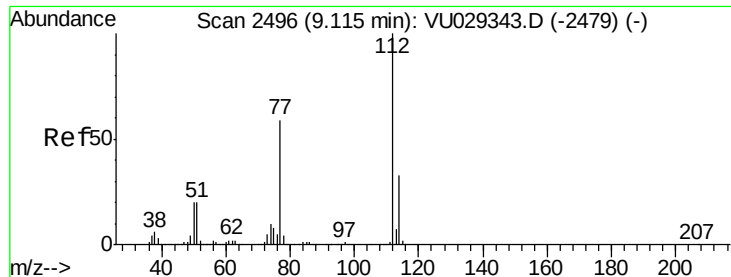
Tot Ion: 95 Resp: 21874
Ion Ratio Lower Upper
95 100
174 92.5 64.2 96.2
176 86.5 62.3 93.5



#58
Tetrachloroethene
Concen: 2.069 ug/l
RT: 8.22 min Scan# 2219
Delta R.T. 0.00 min
Lab File: VU029381.D
Acq: 08 Feb 2019 16:24

Tgt Ion: 164 Resp: 35014
Ion Ratio Lower Upper
164 100
166 136.2 106.6 159.8
129 96.4 79.9 119.9
131 92.3 75.8 113.8

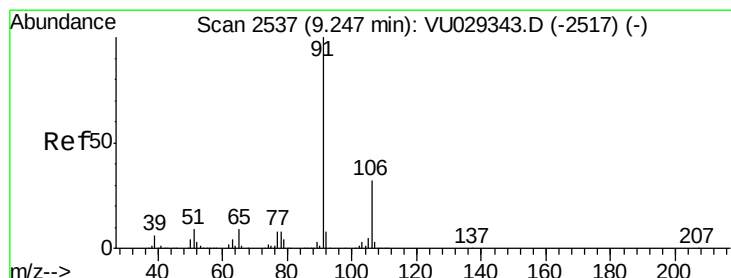
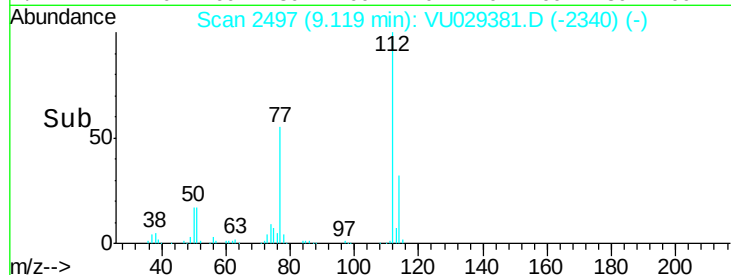
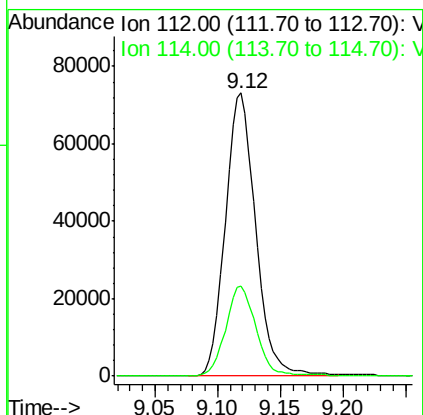
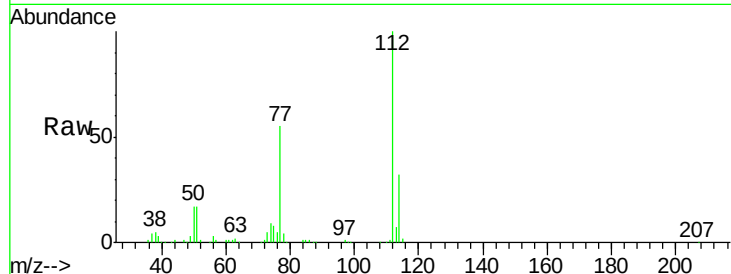




#59
Chlorobenzene
Concen: 2.704 ug/l
RT: 9.12 min Scan# 2497
Delta R.T. 0.00 min
Lab File: VU029381.D
Acq: 08 Feb 2019 16:24

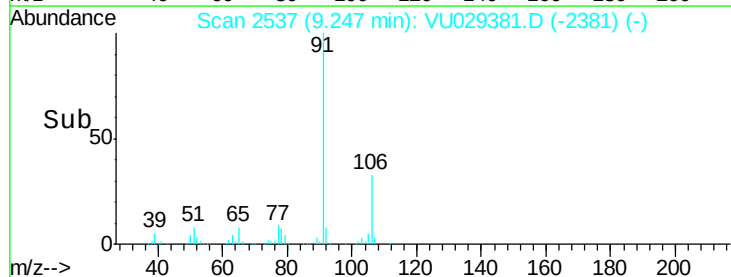
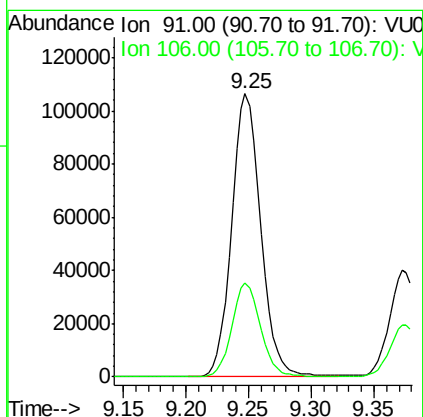
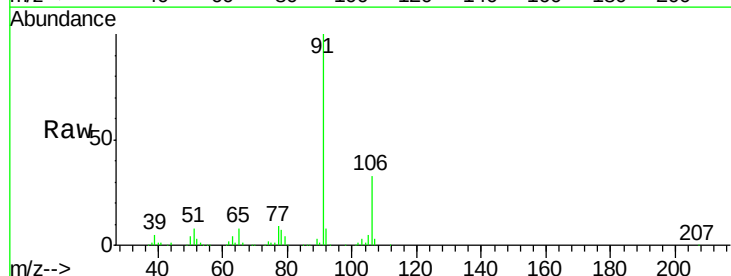
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

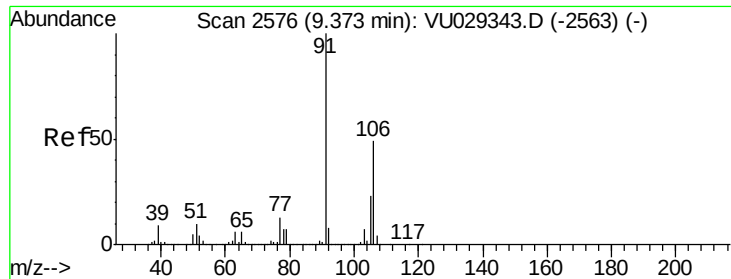
Tot Ion:112 Resp: 123548
Ion Ratio Lower Upper
112 100
114 31.9 26.2 39.4



#63
Ethyl Benzene
Concen: 2.166 ug/l
RT: 9.25 min Scan# 2537
Delta R.T. 0.00 min
Lab File: VU029381.D
Acq: 08 Feb 2019 16:24

Tgt Ion: 91 Resp: 171902
Ion Ratio Lower Upper
91 100
106 33.0 23.8 35.6





#64

m/p-Xylenes

Concen: 1.077 ug/l

RT: 9.38 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VU029381.D

Acq: 08 Feb 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

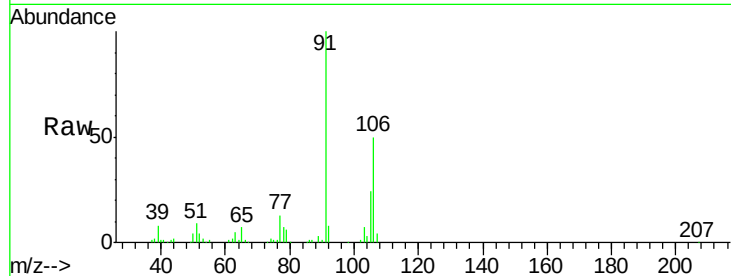
PT-RVOA-WSDL

Tot Ion:106 Resp: 33199

Ion Ratio Lower Upper

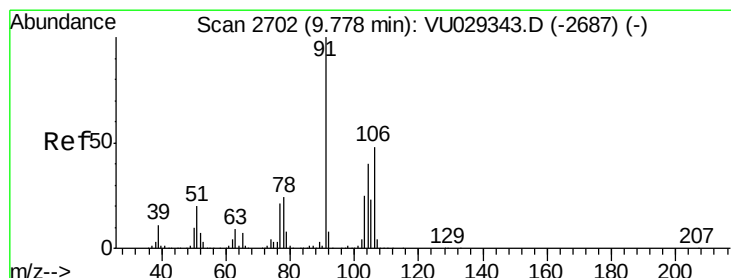
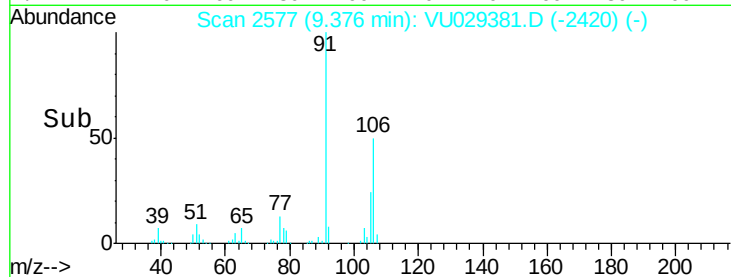
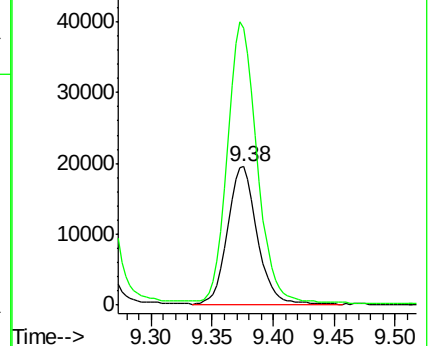
106 100

91 206.0 174.6 261.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#65

o-Xylene

Concen: 0.649 ug/l

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU029381.D

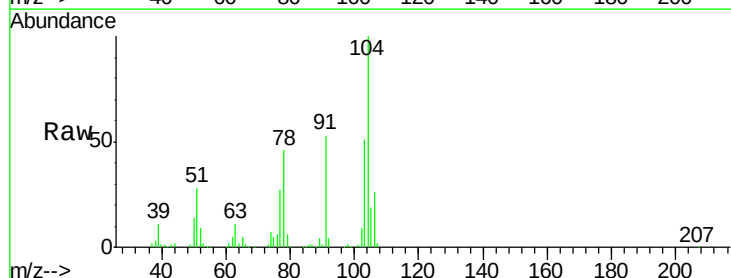
Acq: 08 Feb 2019 16:24

Tgt Ion:106 Resp: 19636

Ion Ratio Lower Upper

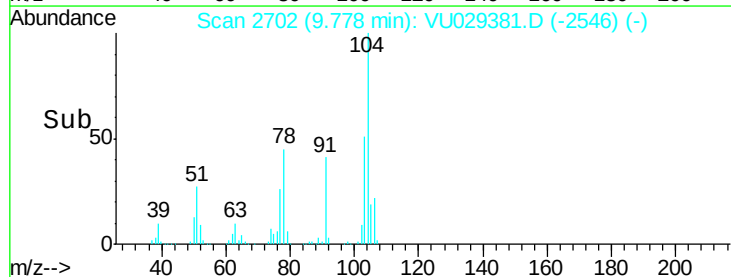
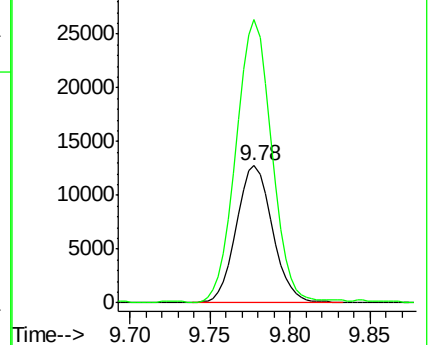
106 100

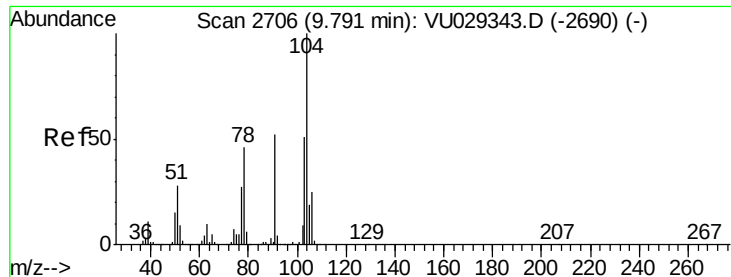
91 205.0 114.5 343.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

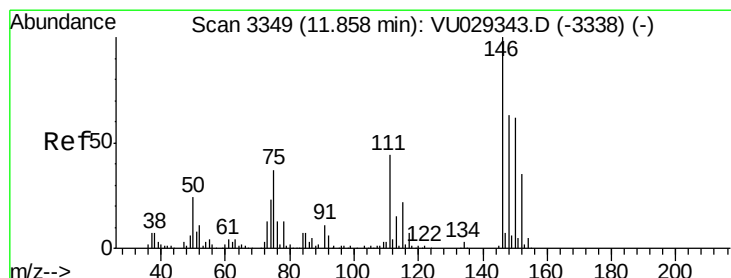
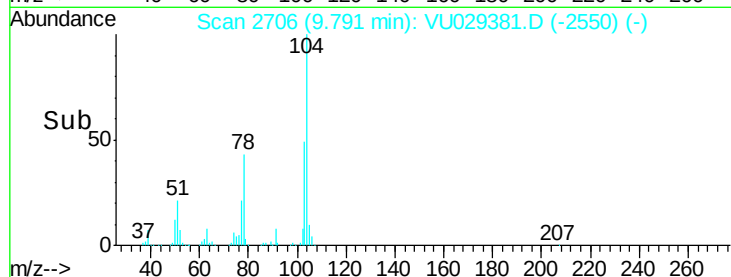
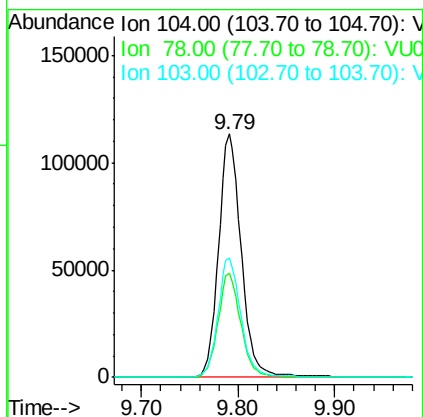
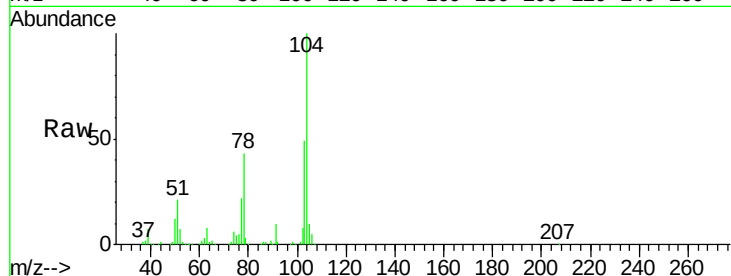




#66
Stvrene
Concen: 3.670 ug/l
RT: 9.79 min Scan# 2706
Delta R.T. 0.00 min
Lab File: VU029381.D
Acq: 08 Feb 2019 16:24

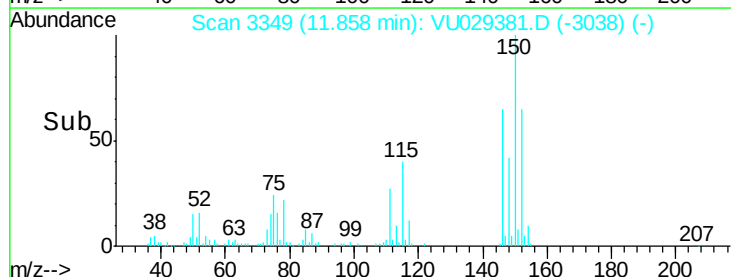
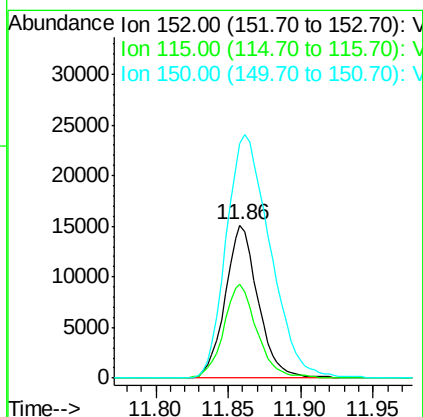
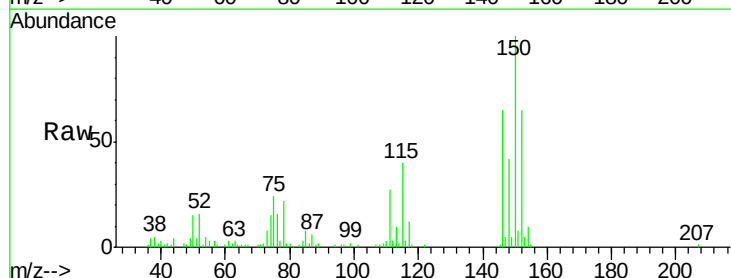
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

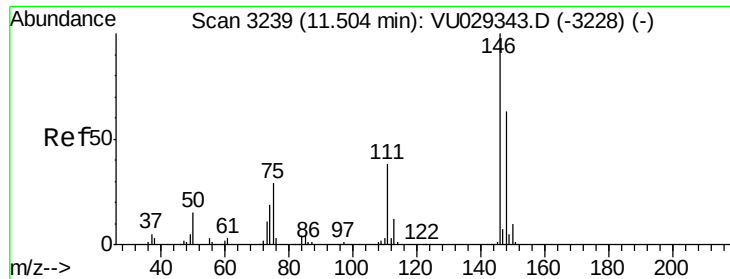
Tot Ion	Ratio	Lower	Upper
104	100		
78	42.6	46.5	69.7#
103	49.7	44.7	67.1



#68
1,2-Dichlorobenzene-d4
Concen: N.D. ug/l
RT: 11.86 min Scan# 3349
Delta R.T. 0.00 min
Lab File: VU029381.D
Acq: 08 Feb 2019 16:24

Tgt Ion	Ratio	Lower	Upper
152	100		
115	62.2	0.0	133.4
150	213.2	0.0	670.8

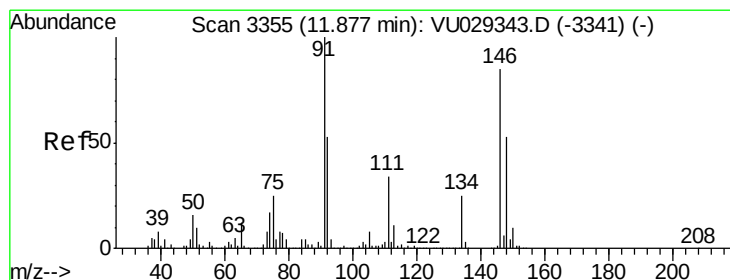
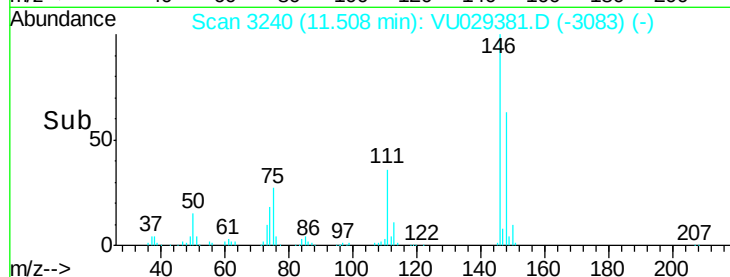
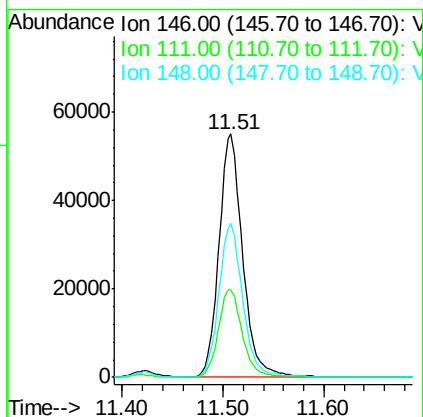
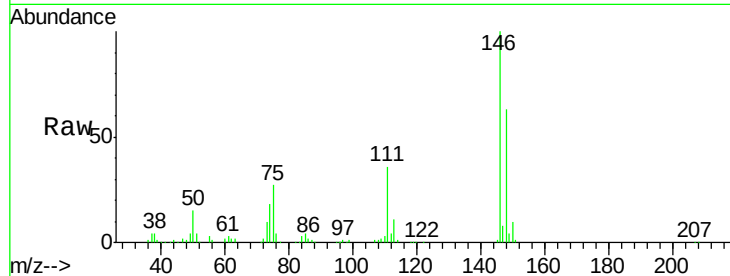




#83
 1,4-Dichlorobenzene
 Concen: 2.362 ug/l
 RT: 11.51 min Scan# 3240
 Delta R.T. 0.00 min
 Lab File: VU029381.D
 Acq: 08 Feb 2019 16:24

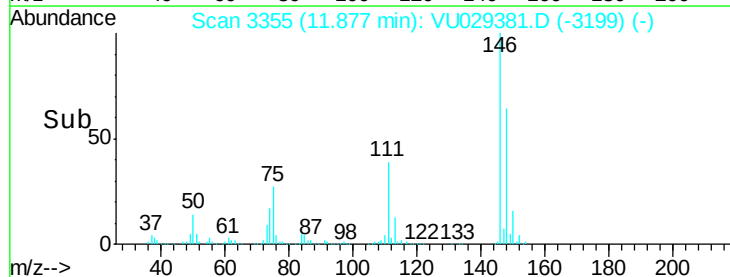
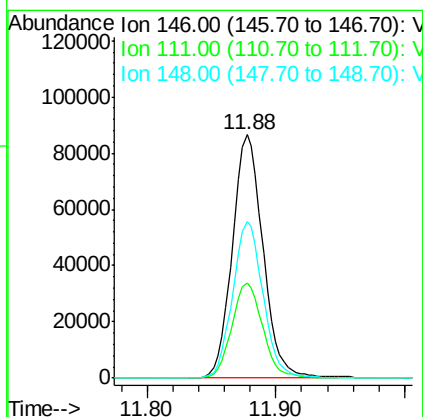
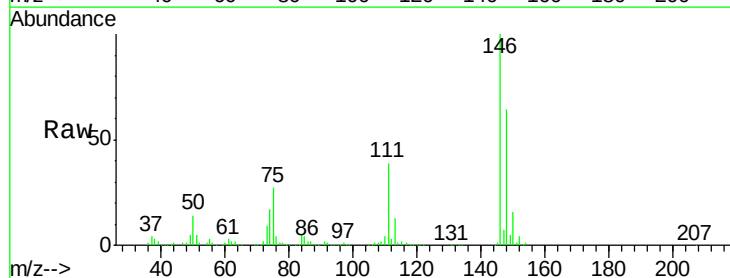
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WSDL

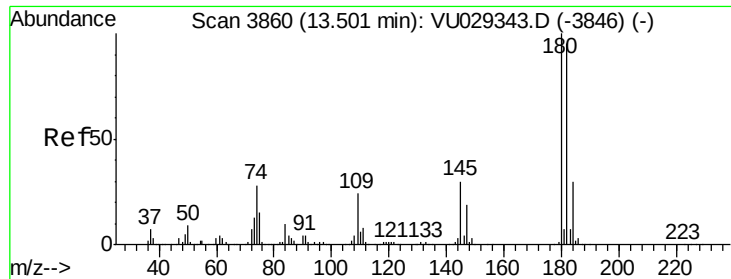
Tot Ion:146 Resp: 90454
 Ion Ratio Lower Upper
 146 100
 111 36.5 32.9 49.3
 148 64.2 51.8 77.6



#85
 1,2-Dichlorobenzene
 Concen: 3.929 ug/l
 RT: 11.88 min Scan# 3355
 Delta R.T. 0.00 min
 Lab File: VU029381.D
 Acq: 08 Feb 2019 16:24

Tgt Ion:146 Resp: 142852
 Ion Ratio Lower Upper
 146 100
 111 39.6 21.9 65.8
 148 63.9 31.8 95.3





#87
 1,2,4-Trichlorobenzene
 Concen: 1.963 ug/l
 RT: 13.50 min Scan# 3861
 Delta R.T. 0.00 min
 Lab File: VU029381.D
 Acq: 08 Feb 2019 16:24

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WSDL

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.6	76.6	114.8
145	28.9	24.6	36.8

