

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072319\
 Data File : VU033377.D
 Acq On : 23 Jul 2019 13:16
 Operator : JC/SP
 Sample : K3860-07
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WS

Quant Time: Jul 25 11:40:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U072219DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Tue Jul 23 03:43:51 2019
 Response via : Initial Calibration

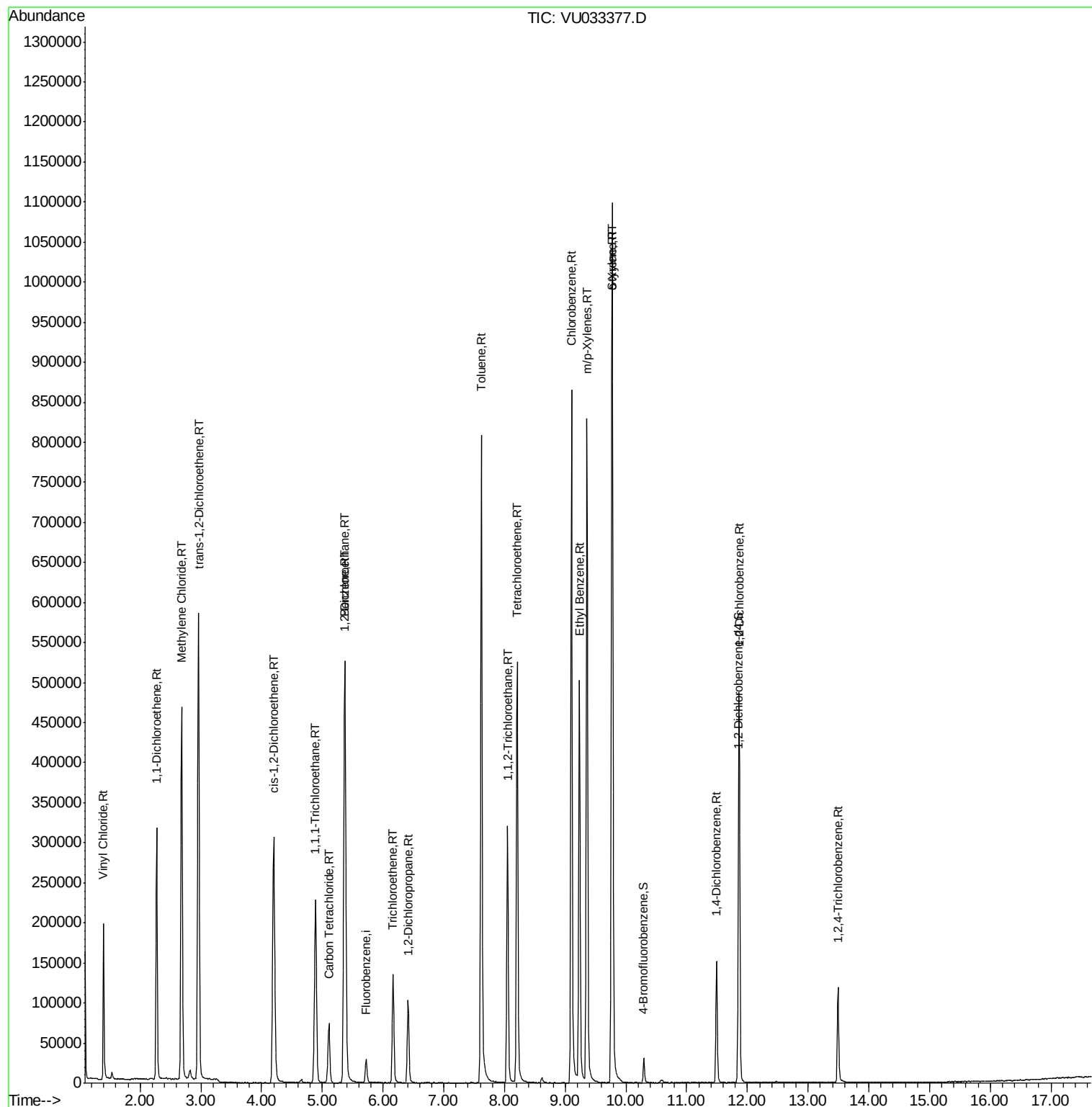
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	5.72	96	28895	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.29	95	11123	0.98	ug/l	0.00
Spiked Amount 1.000			Recovery	=	98.00%	
68) 1,2-Dichlorobenzene-d4	11.85	152	11693	1.00	ug/l	0.00
Spiked Amount 1.000			Recovery	=	100.00%	
Target Compounds						
					Ovalue	
4) Vinyl Chloride	1.40	62	131713	8.949	ug/l	99
9) 1,1-Dichloroethene	2.27	96	97293	9.476	ug/l	97
15) Methylene Chloride	2.68	84	195975	14.153	ug/l	100
16) trans-1,2-Dichloroethene	2.96	96	217827	17.865	ug/l	98
22) cis-1,2-Dichloroethene	4.20	96	166232	17.990	ug/l	90
28) 1,1,1-Trichloroethane	4.89	97	177449	12.255	ug/l	98
30) Carbon Tetrachloride	5.11	117	52822	4.145	ug/l	98
35) Benzene	5.36	78	436705	12.656	ug/l	100
36) 1,2-Dichloroethane	5.38	62	171357	14.922	ug/l	99
37) Trichloroethene	6.16	130	45719	5.020	ug/l	100
38) 1,2-Dichloropropane	6.41	63	41566	4.366	ug/l	97
49) Toluene	7.62	92	347997	17.605	ug/l	100
52) 1,1,2-Trichloroethane	8.05	97	99633	14.144	ug/l	97
58) Tetrachloroethene	8.21	164	114451	13.859	ug/l	97
59) Chlorobenzene	9.10	112	468616	20.679	ug/l	100
63) Ethyl Benzene	9.23	91	355327	9.765	ug/l	99
64) m/p-Xylenes	9.36	106	238322	16.381	ug/l	98
65) o-Xylene	9.77	106	113602	8.148	ug/l	98
66) Styrene	9.78	104	428808	18.132	ug/l	95
83) 1,4-Dichlorobenzene	11.49	146	62015	3.123	ug/l	99
85) 1,2-Dichlorobenzene	11.86	146	191156	10.158	ug/l	100
87) 1,2,4-Trichlorobenzene	13.49	180	38381	3.428	ug/l	100
-----	-----	-----	-----	-----	-----	-----

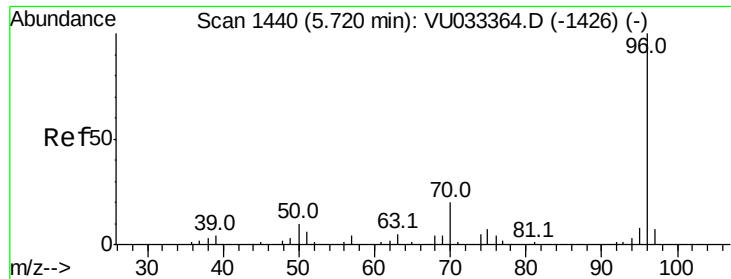
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jul 23 03:43:51 2019
Response via : Initial Calibration





#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.72 min Scan# 1441

Delta R.T. 0.00 min

Lab File: VU033377.D

Acq: 23 Jul 2019 13:16

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WS

Tot Ion: 96 Resp: 28895

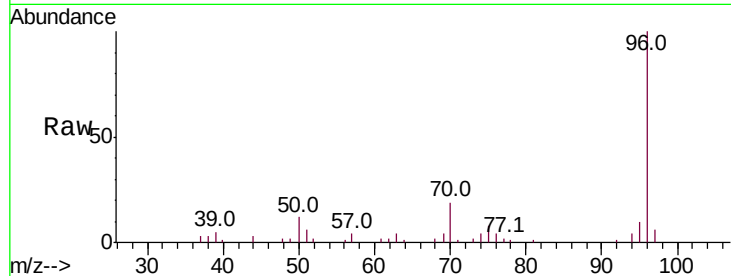
Ion Ratio Lower Upper

96 100

70 19.2 16.4 24.6

95 9.2 6.7 10.1

97 0.0 0.0 0.0

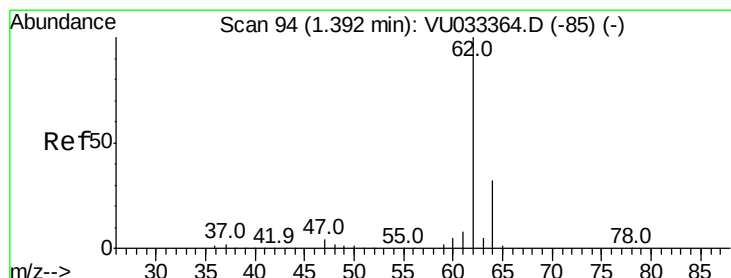
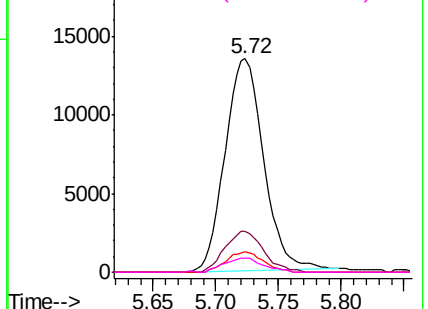
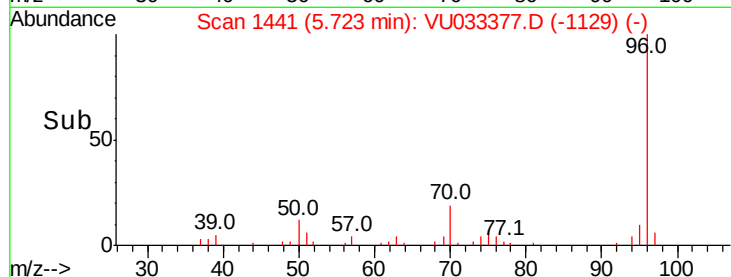


Abundance Ion 96.00 (95.70 to 96.70): VU0

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: 8.949 ug/l

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033377.D

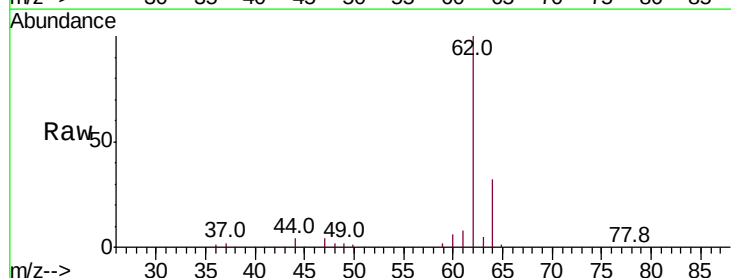
Acq: 23 Jul 2019 13:16

Tgt Ion: 62 Resp: 131713

Ion Ratio Lower Upper

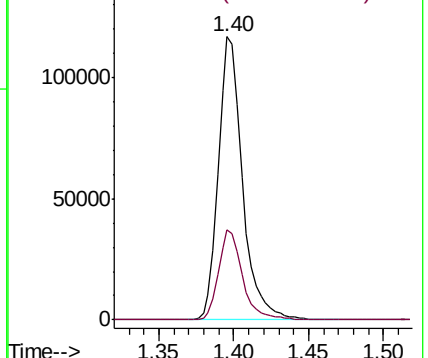
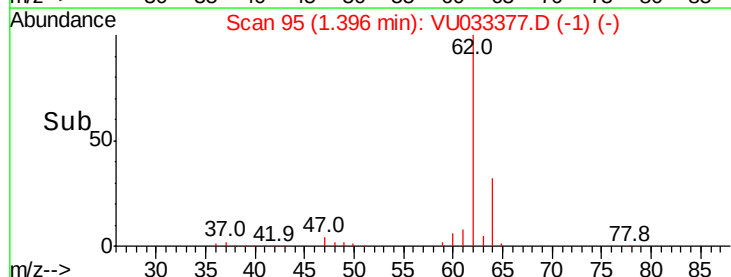
62 100

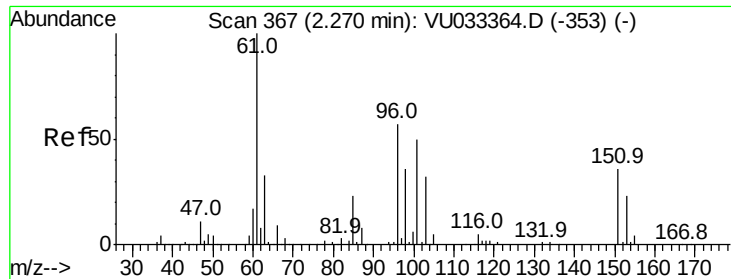
64 31.7 25.6 38.4



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

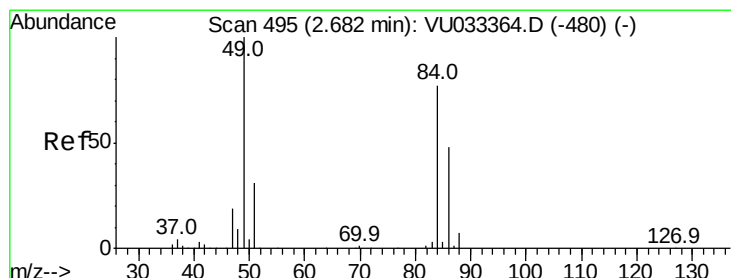
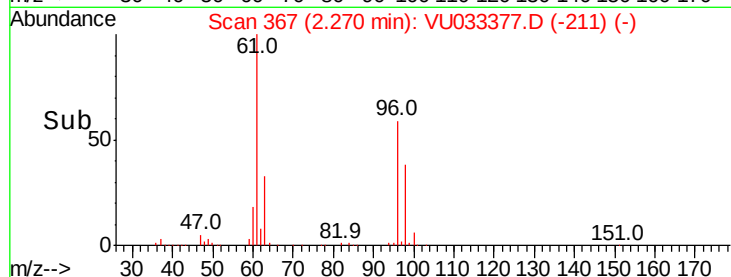
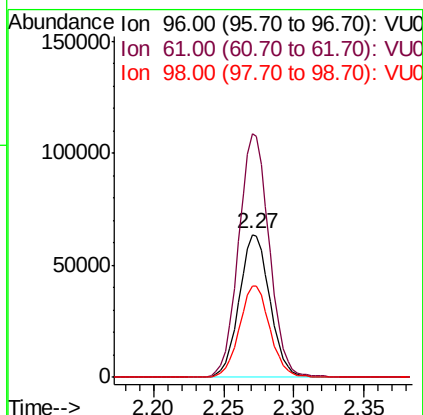
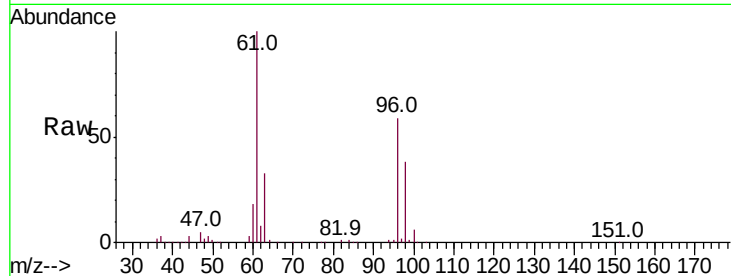




#9
 1,1-Dichloroethene
 Concen: 9.476 ug/l
 RT: 2.27 min Scan# 367
 Delta R.T. 0.00 min
 Lab File: VU033377.D
 Acq: 23 Jul 2019 13:16

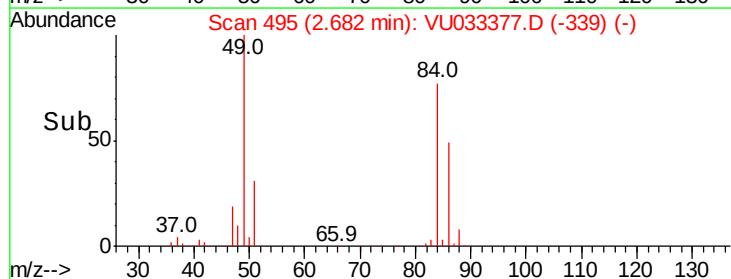
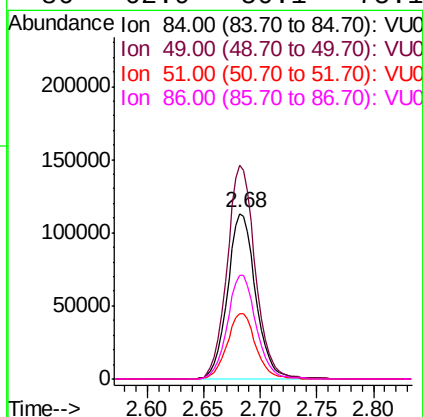
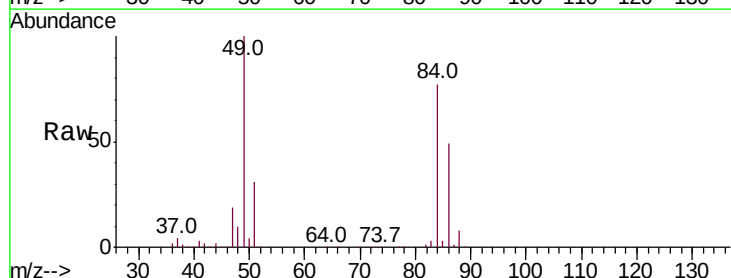
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WS

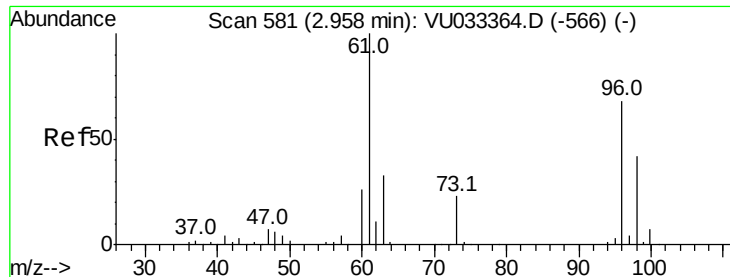
Tot Ion:	96	Resp:	97293
Ion	Ratio	Lower	Upper
96	100		
61	170.7	0.0	525.6
98	64.4	0.0	126.4



#15
 Methylene Chloride
 Concen: 14.153 ug/l
 RT: 2.68 min Scan# 495
 Delta R.T. -0.00 min
 Lab File: VU033377.D
 Acq: 23 Jul 2019 13:16

Tgt Ion:	84	Resp:	195975
Ion	Ratio	Lower	Upper
84	100		
49	129.3	103.5	155.3
51	39.8	0.0	80.4
86	62.9	50.1	75.1





#16

trans-1,2-Dichloroethene

Concen: 17.865 ug/l

RT: 2.96 min Scan# 582

Delta R.T. 0.00 min

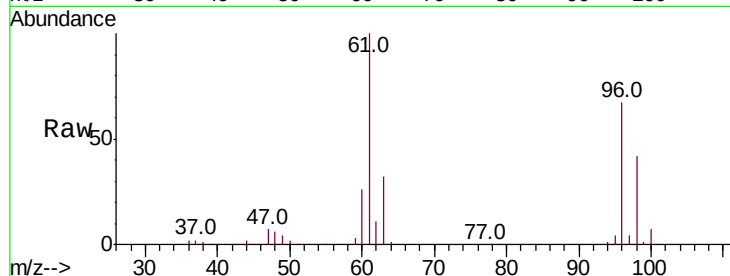
Lab File: VU033377.D

Acq: 23 Jul 2019 13:16

Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WS

Tot Ion: 96 Resp: 217827

Ion	Ratio	Lower	Upper
96	100		
61	150.0	118.0	177.0
98	63.4	49.4	74.2

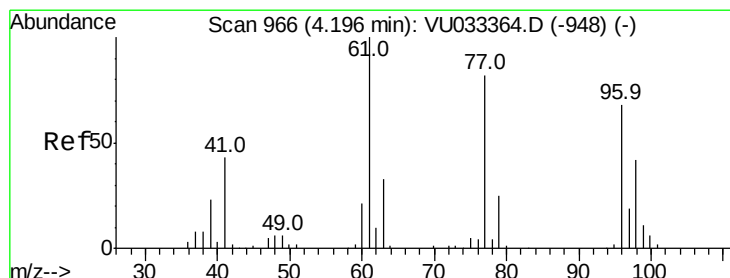
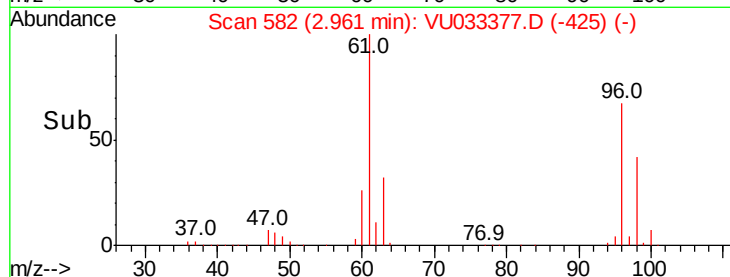
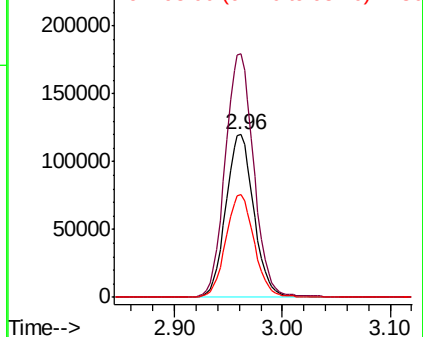


Abundance

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: 17.990 ug/l

RT: 4.20 min Scan# 967

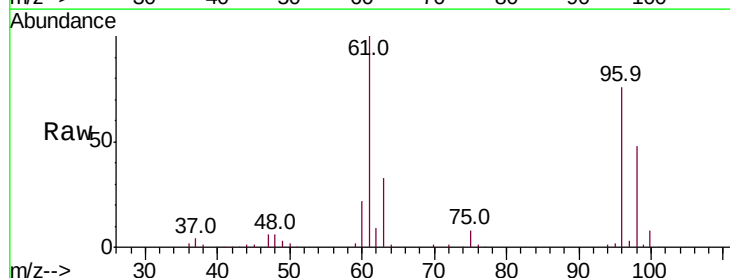
Delta R.T. 0.00 min

Lab File: VU033377.D

Acq: 23 Jul 2019 13:16

Tgt Ion: 96 Resp: 166232

Ion	Ratio	Lower	Upper
96	100		
61	133.0	0.0	376.3
98	64.3	31.9	95.9

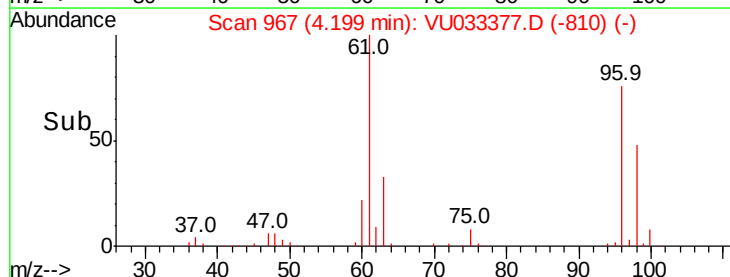
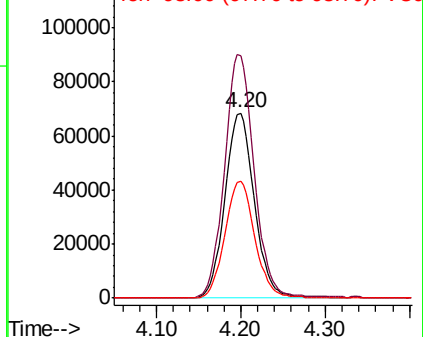


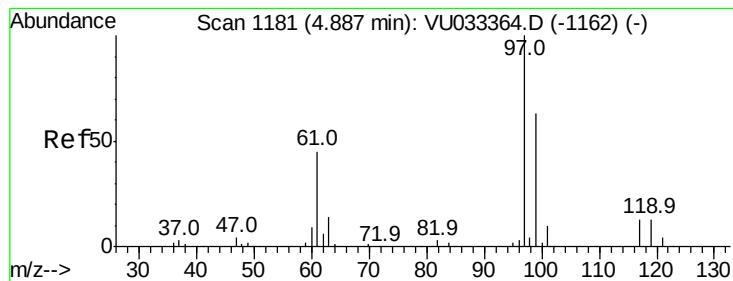
Abundance

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: 12.255 ug/l

RT: 4.89 min Scan# 1182

Delta R.T. 0.00 min

Lab File: VU033377.D

Acq: 23 Jul 2019 13:16

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WS

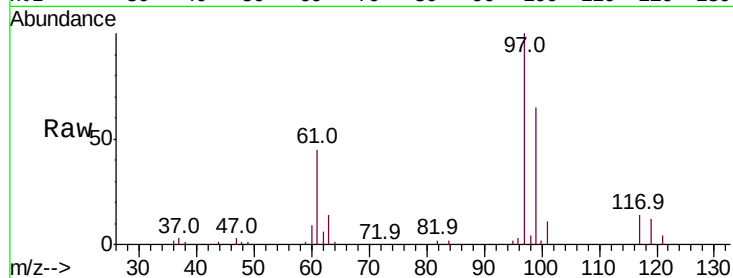
Tot Ion: 97 Resp: 177449

Ion Ratio Lower Upper

97 100

99 64.9 31.9 95.5

61 46.4 22.7 68.0

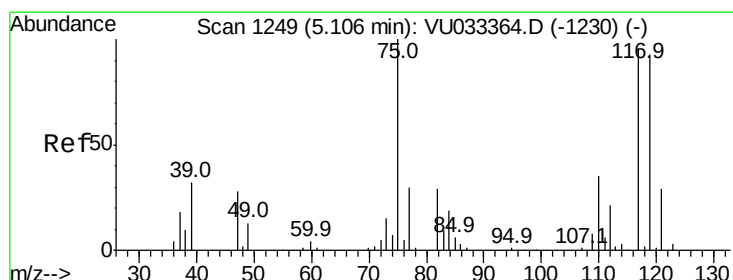
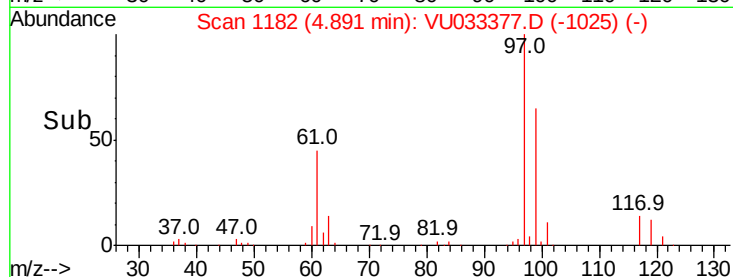
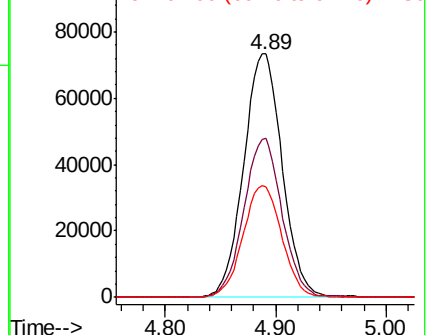


Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 61.00 (60.70 to 61.70): VU0



#30

Carbon Tetrachloride

Concen: 4.145 ug/l

RT: 5.11 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VU033377.D

Acq: 23 Jul 2019 13:16

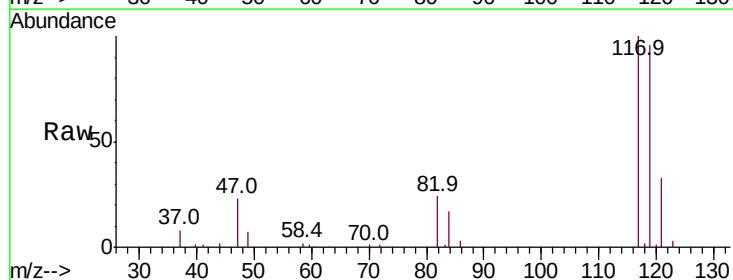
Tgt Ion: 117 Resp: 52822

Ion Ratio Lower Upper

117 100

119 96.2 77.9 116.9

121 32.5 24.0 36.0

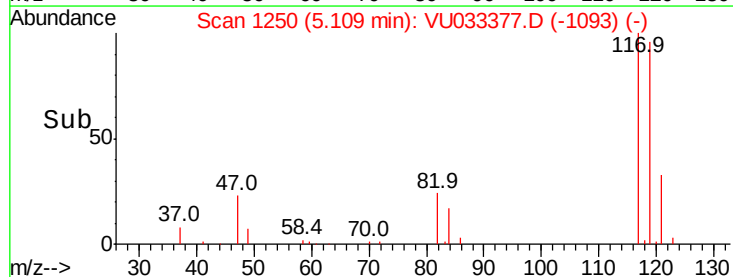
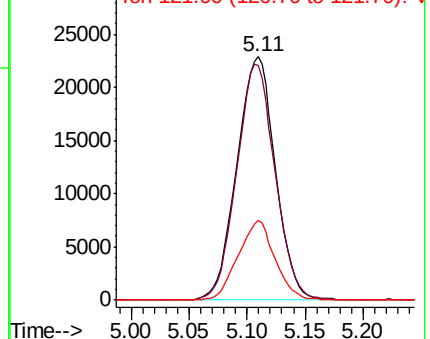


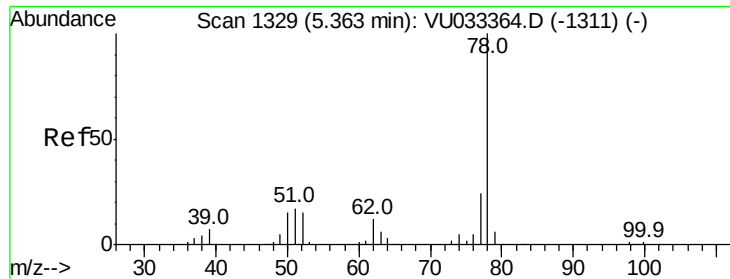
Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#35

Benzene

Concen: 12.656 ug/l

RT: 5.36 min Scan# 1329

Delta R.T. -0.00 min

Lab File: VU033377.D

Acq: 23 Jul 2019 13:16

Instrument :

MSVOA_U

ClientSampleId :

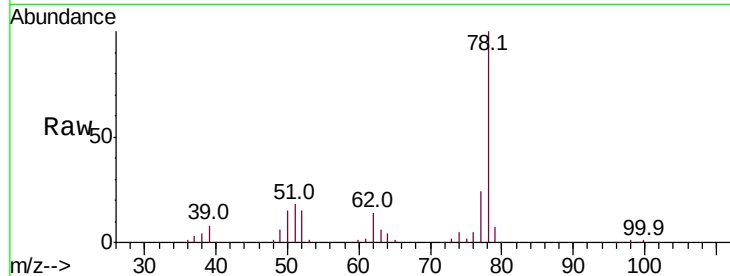
PT-RVOA-WS

Tot Ion: 78 Resp: 436705

Ion Ratio Lower Upper

78 100

77 24.5 19.4 29.2



Abundance Ion 78.10 (77.80 to 78.80): VU033364.D (-1311) (-)

Ion 77.00 (76.70 to 77.70): VU033377.D (-1173) (-)

5.36

200000

150000

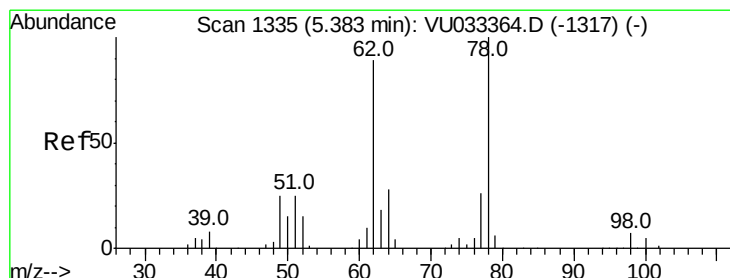
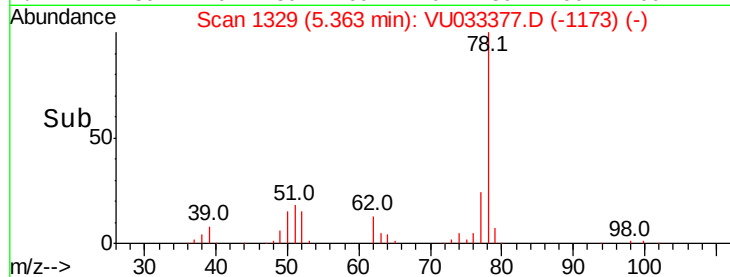
100000

50000

0

5.30 5.40 5.50

Time-->



#36

1,2-Dichloroethane

Concen: 14.922 ug/l

RT: 5.38 min Scan# 1335

Delta R.T. 0.00 min

Lab File: VU033377.D

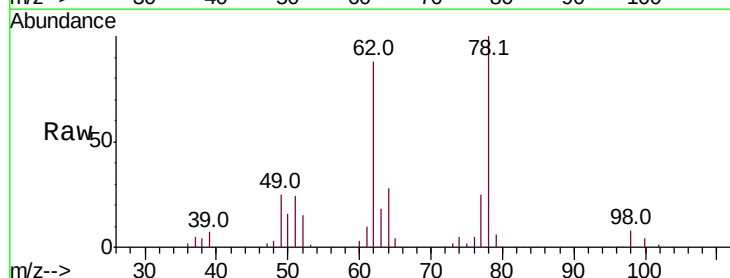
Acq: 23 Jul 2019 13:16

Tgt Ion: 62 Resp: 171357

Ion Ratio Lower Upper

62 100

98 8.3 6.5 9.7



Abundance Ion 62.00 (61.70 to 62.70): VU033364.D (-1317) (-)

Ion 98.00 (97.70 to 98.70): VU033377.D (-1179) (-)

5.38

80000

60000

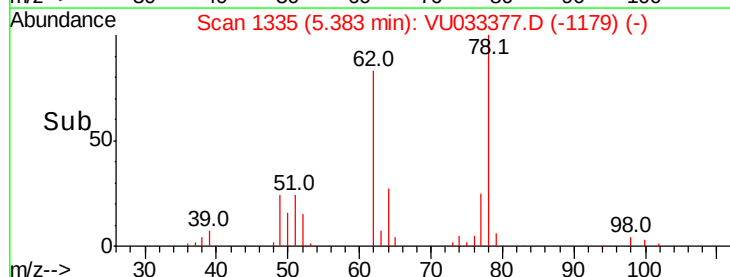
40000

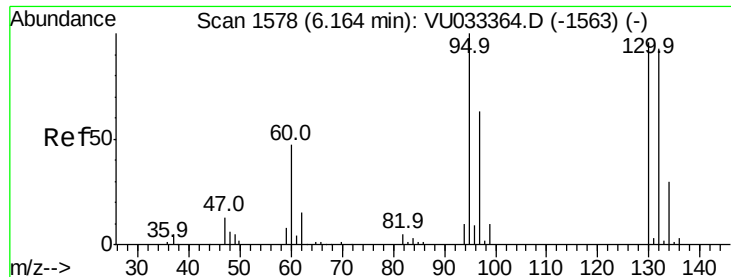
20000

0

5.30 5.35 5.40 5.45 5.50

Time-->

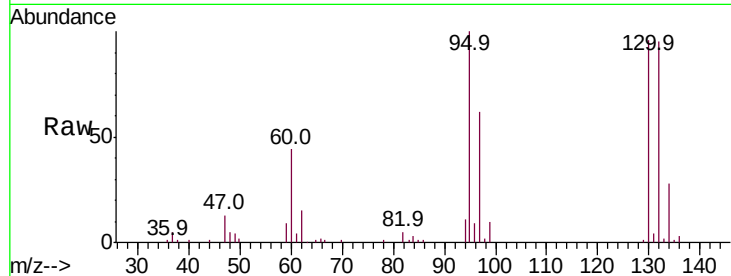




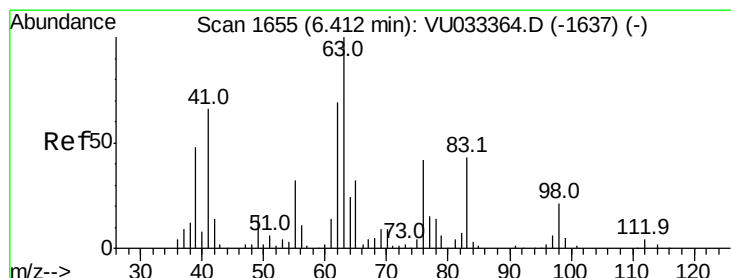
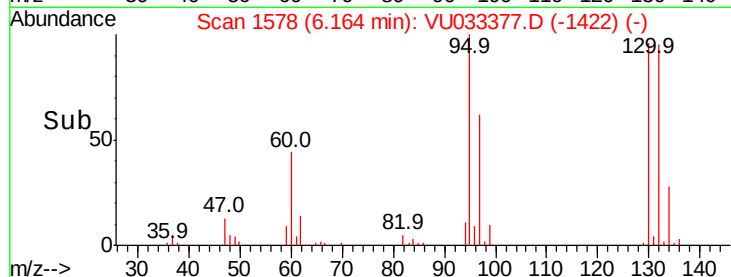
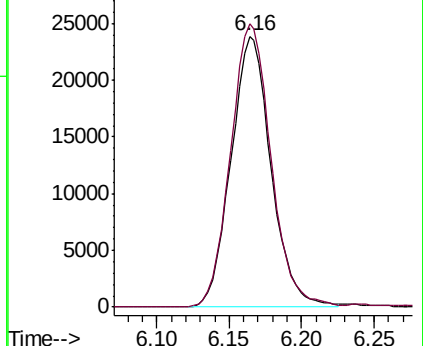
#37
 Trichloroethene
 Concen: 5.020 ug/l
 RT: 6.16 min Scan# 1578
 Delta R.T. 0.00 min
 Lab File: VU033377.D
 Acq: 23 Jul 2019 13:16

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WS

Tot Ion:130 Resp: 45719
 Ion Ratio Lower Upper
 130 100
 95 104.5 83.4 125.0

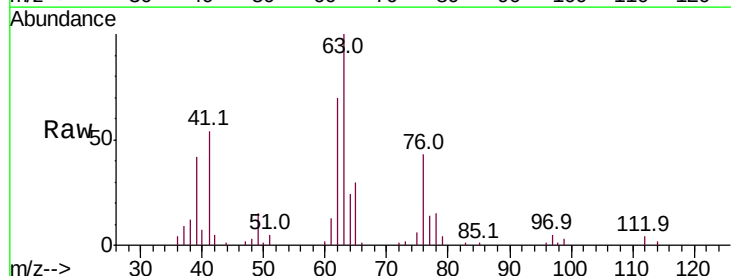


Abundance Ion 129.90 (129.60 to 130.60): VU033364.D (-1563) (-)
 Ion 94.90 (94.60 to 95.60): VU033364.D (-1563) (-)

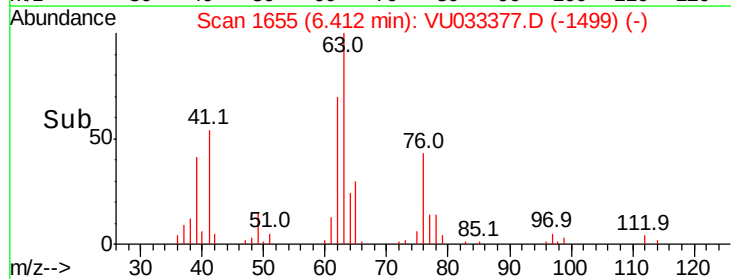
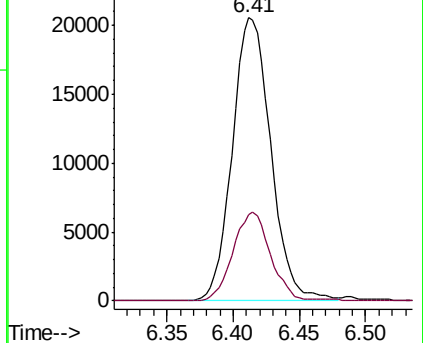


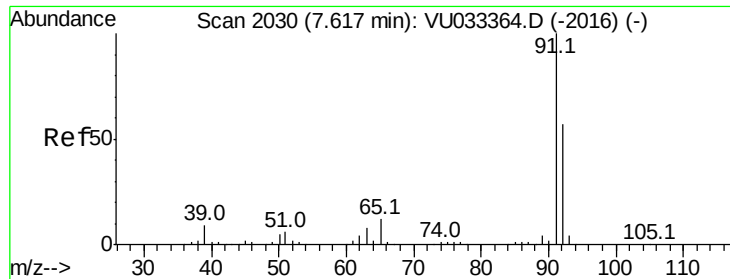
#38
 1,2-Dichloropropane
 Concen: 4.366 ug/l
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU033377.D
 Acq: 23 Jul 2019 13:16

Tgt Ion: 63 Resp: 41566
 Ion Ratio Lower Upper
 63 100
 65 30.3 25.7 38.5



Abundance Ion 63.00 (62.70 to 63.70): VU033364.D (-1637) (-)
 Ion 65.00 (64.70 to 65.70): VU033364.D (-1637) (-)





#49

Toluene

Concen: 17.605 ug/l

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU033377.D

Acq: 23 Jul 2019 13:16

Instrument :

MSVOA_U

ClientSampleId :

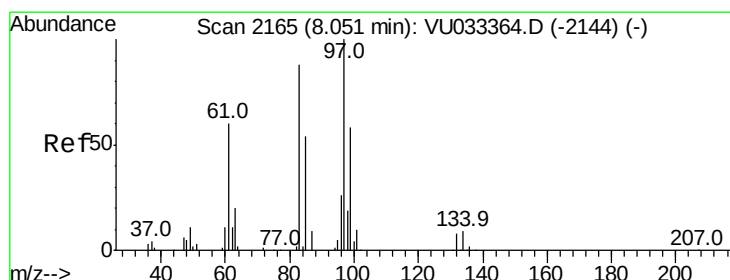
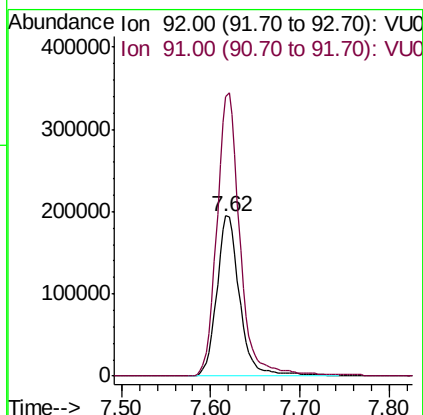
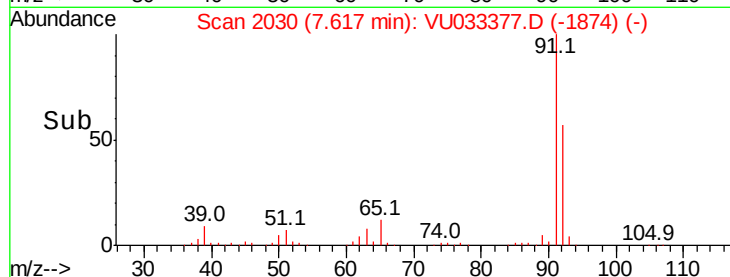
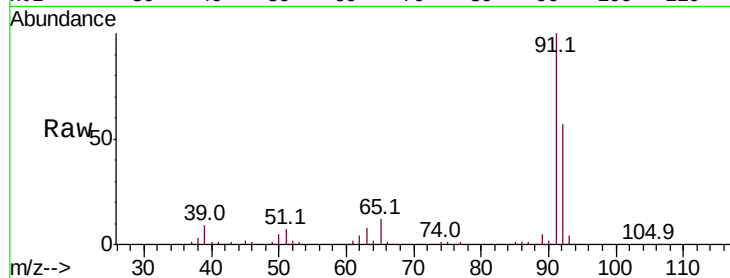
PT-RVOA-WS

Tot Ion: 92 Resp: 347997

Ion Ratio Lower Upper

92 100

91 177.6 142.1 213.1



#52

1,1,2-Trichloroethane

Concen: 14.144 ug/l

RT: 8.05 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VU033377.D

Acq: 23 Jul 2019 13:16

Tgt Ion: 97 Resp: 99633

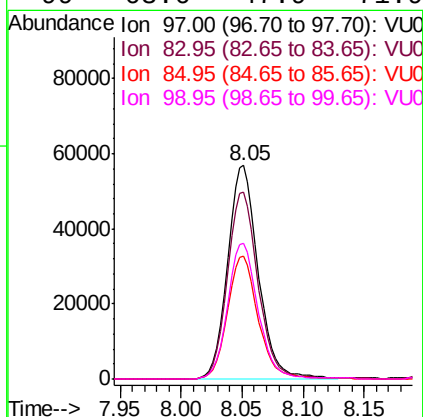
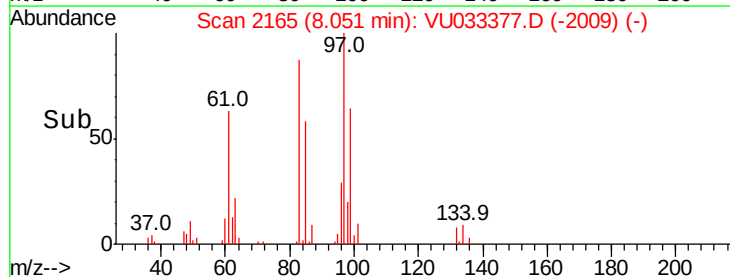
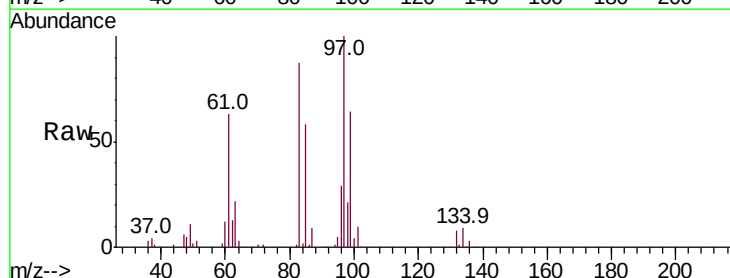
Ion Ratio Lower Upper

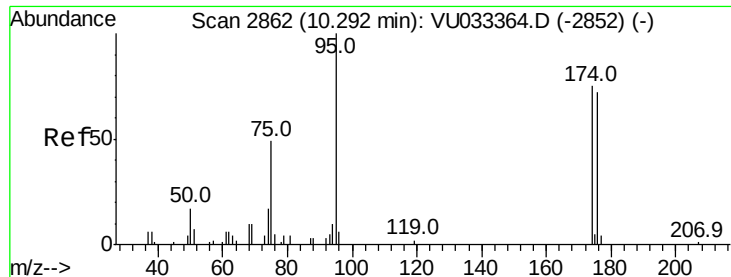
97 100

83 87.2 70.2 105.2

85 57.7 43.5 65.3

99 63.6 47.9 71.9

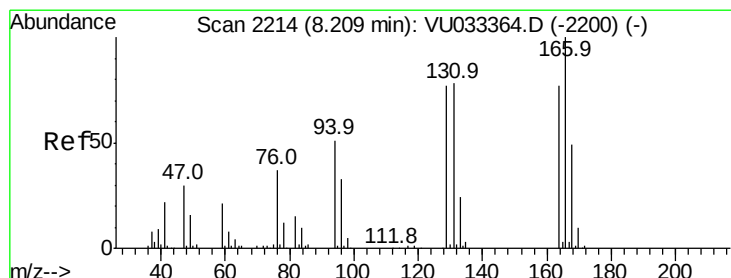
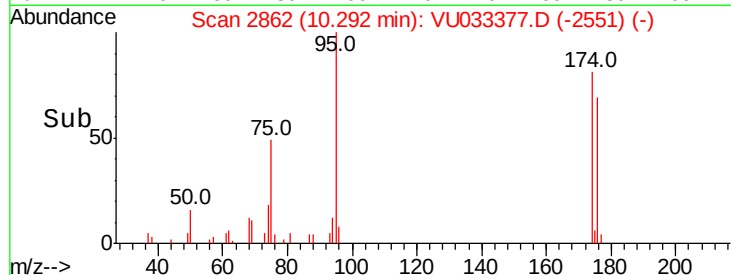
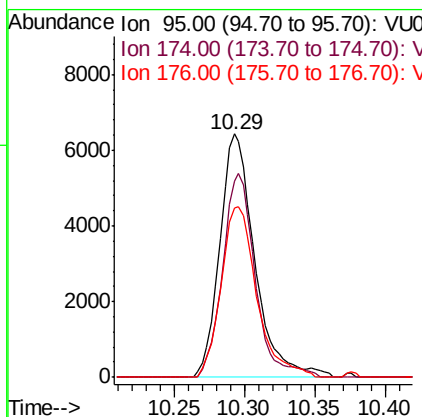
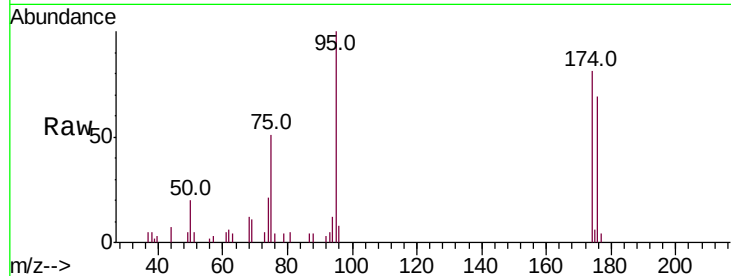




#57
4-Bromofluorobenzene
Concen: 0.981 ug/l
RT: 10.29 min Scan# 2862
Delta R.T. 0.00 min
Lab File: VU033377.D
Acq: 23 Jul 2019 13:16

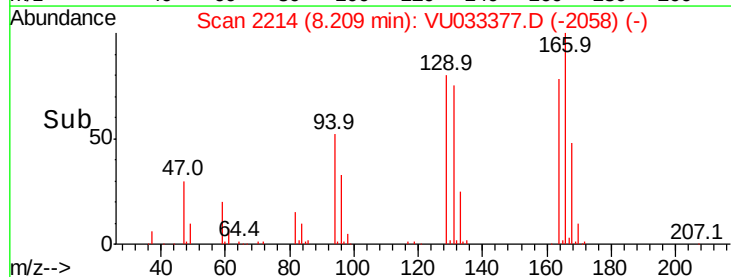
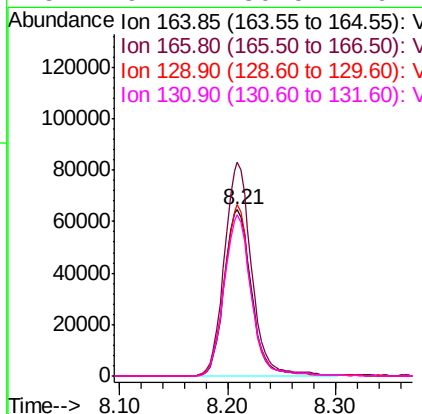
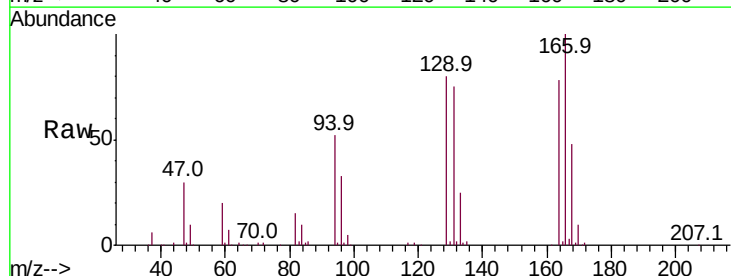
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WS

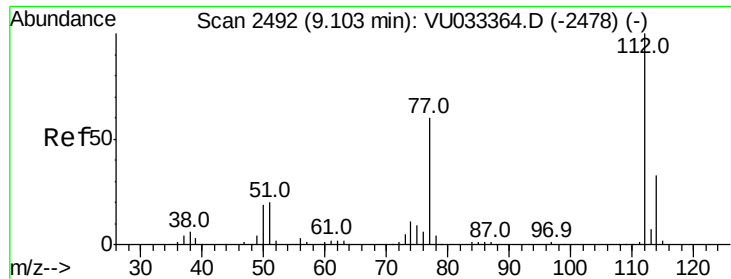
Tot Ion: 95 Resp: 11123
Ion Ratio Lower Upper
95 100
174 78.1 58.8 88.2
176 71.7 54.4 81.6



#58
Tetrachloroethene
Concen: 13.859 ug/l
RT: 8.21 min Scan# 2214
Delta R.T. 0.00 min
Lab File: VU033377.D
Acq: 23 Jul 2019 13:16

Tgt Ion: 164 Resp: 114451
Ion Ratio Lower Upper
164 100
166 128.6 103.8 155.6
129 103.3 79.7 119.5
131 97.1 80.5 120.7

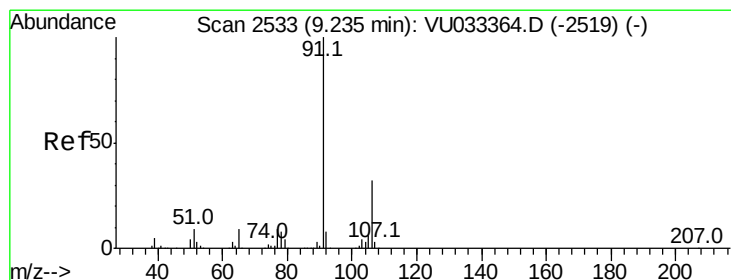
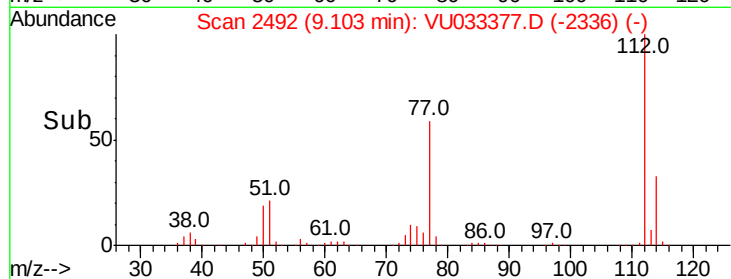
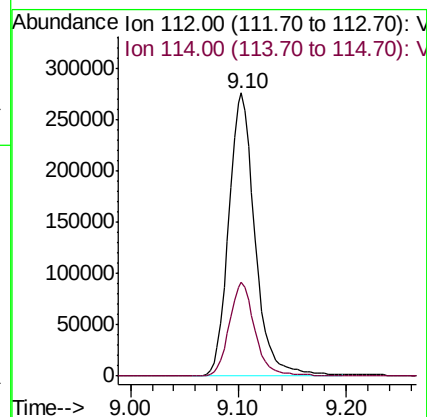
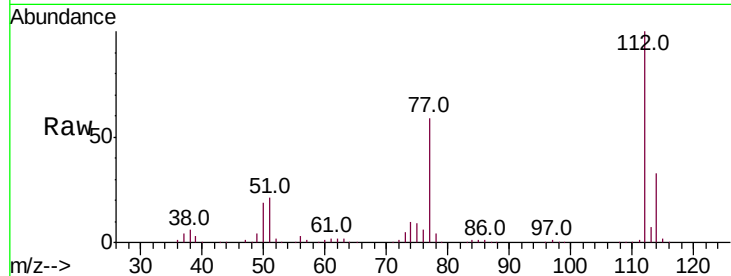




#59
Chlorobenzene
Concen: 20.679 ug/l
RT: 9.10 min Scan# 2492
Delta R.T. -0.00 min
Lab File: VU033377.D
Acq: 23 Jul 2019 13:16

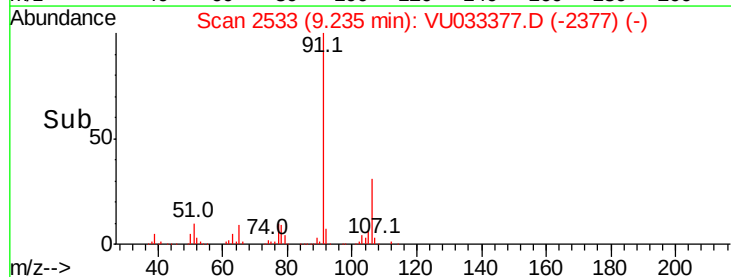
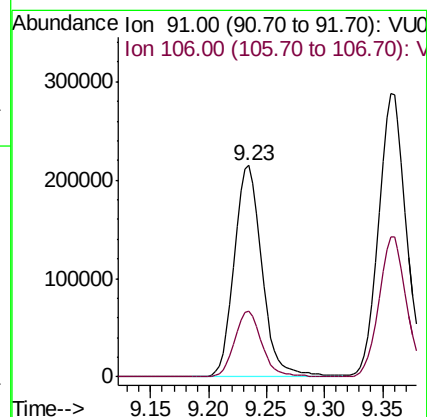
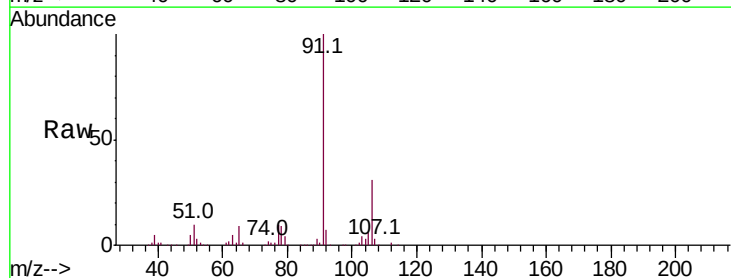
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WS

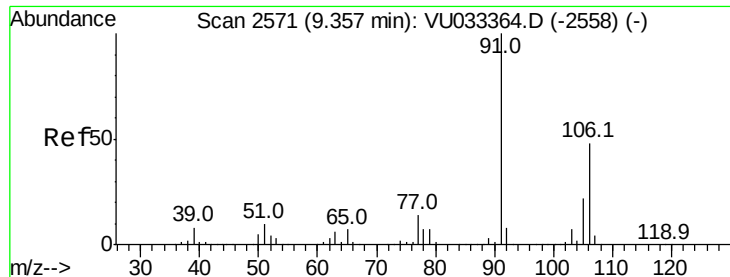
Tot Ion:112 Resp: 468616
Ion Ratio Lower Upper
112 100
114 33.0 26.4 39.6



#63
Ethyl Benzene
Concen: 9.765 ug/l
RT: 9.23 min Scan# 2533
Delta R.T. 0.00 min
Lab File: VU033377.D
Acq: 23 Jul 2019 13:16

Tgt Ion: 91 Resp: 355327
Ion Ratio Lower Upper
91 100
106 31.2 25.4 38.2





#64

m/p-Xylenes

Concen: 16.381 ug/l

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU033377.D

Acq: 23 Jul 2019 13:16

Instrument :

MSVOA_U

ClientSampleId :

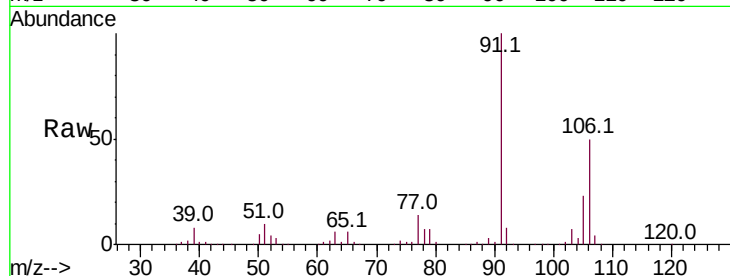
PT-RVOA-WS

Tot Ion:106 Resp: 238322

Ion Ratio Lower Upper

106 100

91 206.5 167.1 250.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

300000

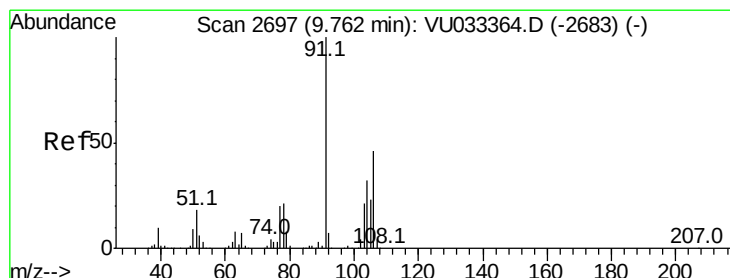
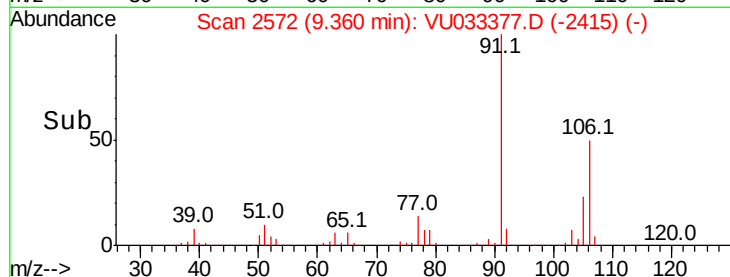
200000

100000

0

9.30 9.35 9.40 9.45

Time-->



#65

o-Xylene

Concen: 8.148 ug/l

RT: 9.77 min Scan# 2698

Delta R.T. 0.00 min

Lab File: VU033377.D

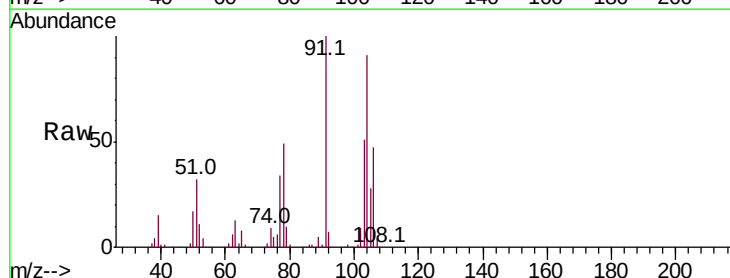
Acq: 23 Jul 2019 13:16

Tgt Ion:106 Resp: 113602

Ion Ratio Lower Upper

106 100

91 219.7 108.5 325.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

150000

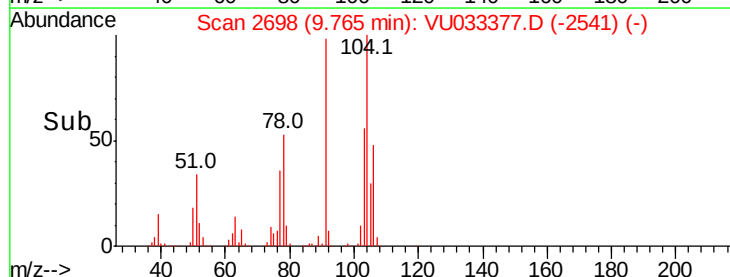
100000

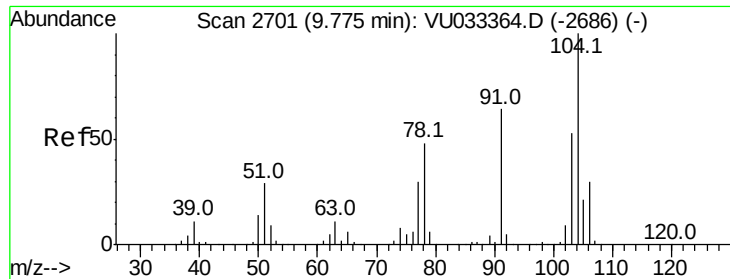
50000

0

9.70 9.75 9.80 9.85

Time-->

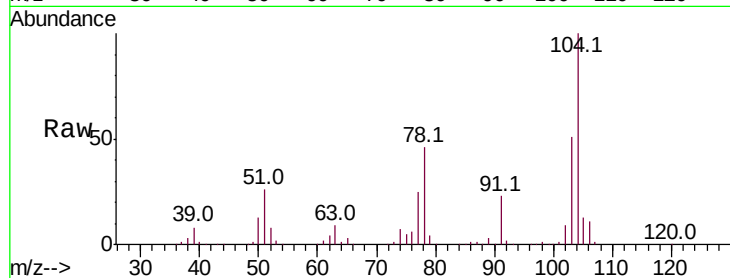




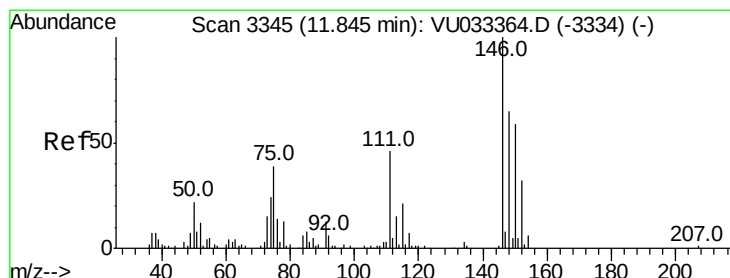
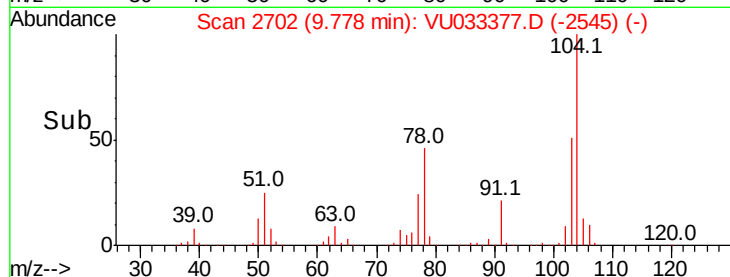
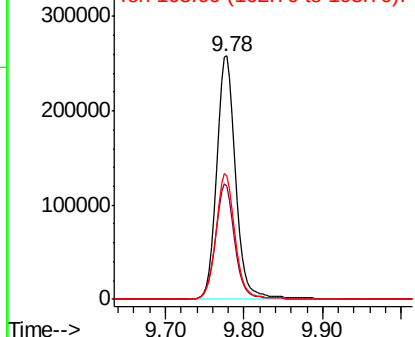
#66
Stvrene
Concen: 18.132 ug/l
RT: 9.78 min Scan# 2702
Delta R.T. 0.00 min
Lab File: VU033377.D
Acq: 23 Jul 2019 13:16

Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WS

Tot Ion:104 Resp: 428808
Ion Ratio Lower Upper
104 100
78 48.2 41.2 61.8
103 52.2 44.7 67.1

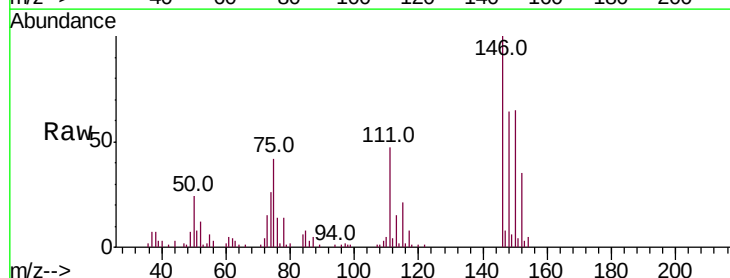


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0
Ion 103.00 (102.70 to 103.70): V

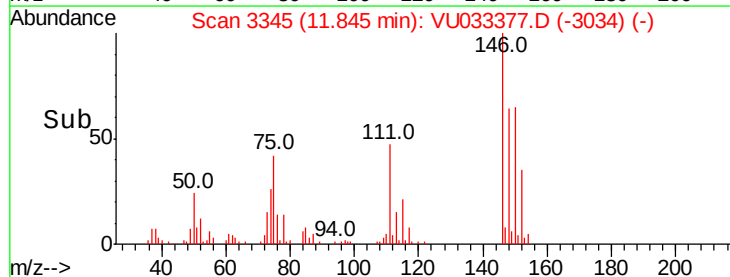
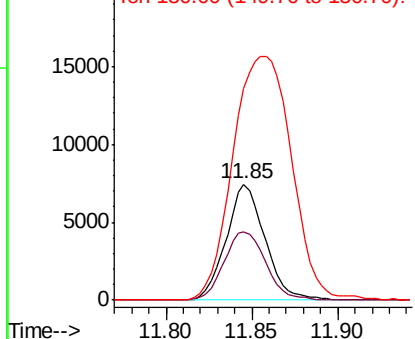


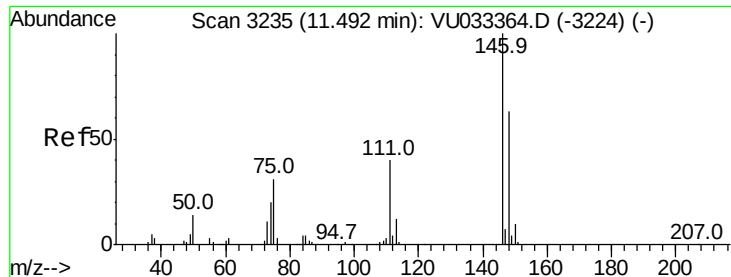
#68
1,2-Dichlorobenzene-d4
Concen: 0.999 ug/l
RT: 11.85 min Scan# 3345
Delta R.T. 0.00 min
Lab File: VU033377.D
Acq: 23 Jul 2019 13:16

Tgt Ion:152 Resp: 11693
Ion Ratio Lower Upper
152 100
115 63.4 0.0 123.2
150 317.9 0.0 648.4



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V

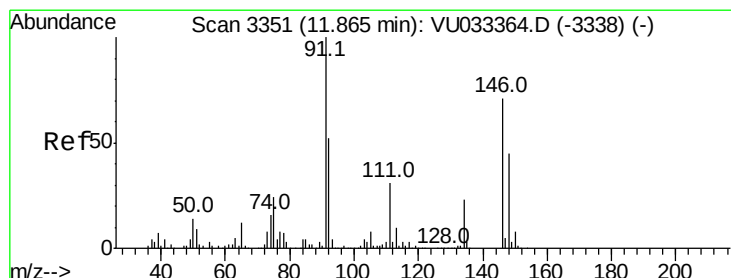
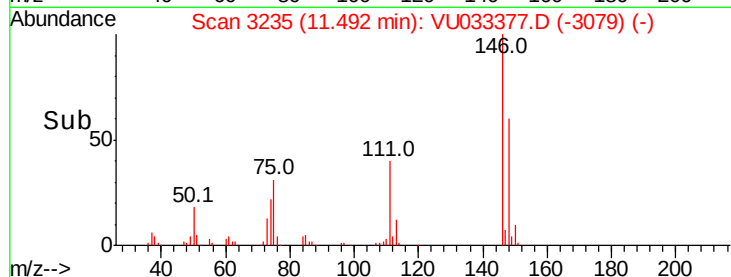
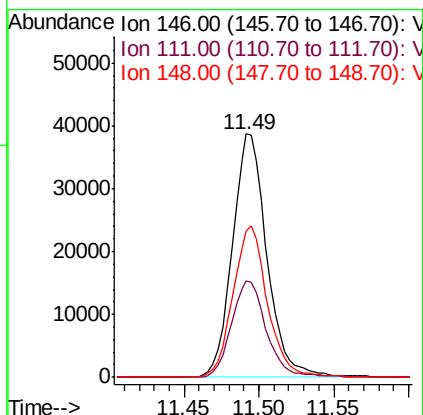
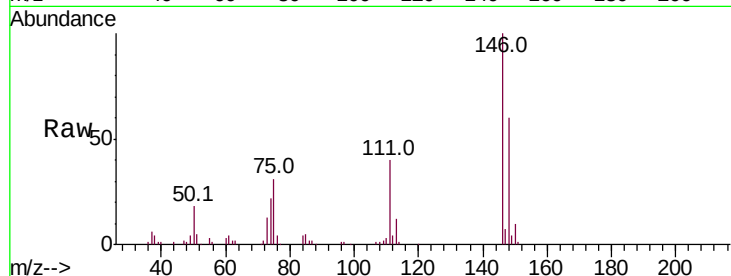




#83
 1,4-Dichlorobenzene
 Concen: 3.123 ug/l
 RT: 11.49 min Scan# 3235
 Delta R.T. 0.00 min
 Lab File: VU033377.D
 Acq: 23 Jul 2019 13:16

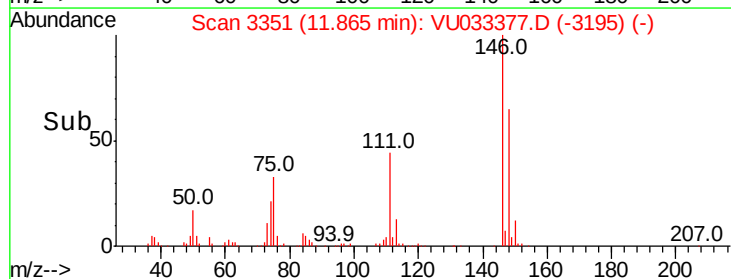
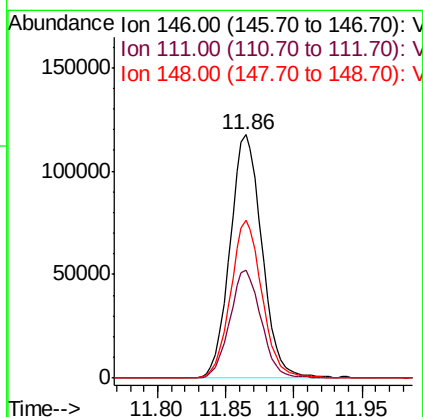
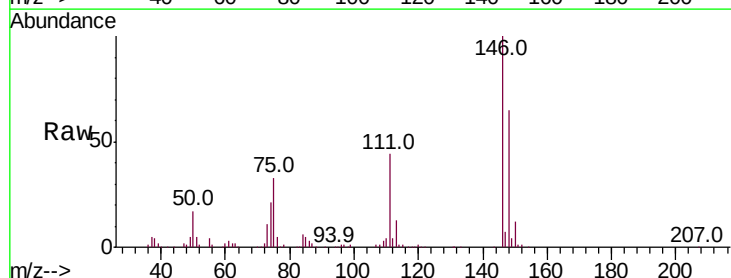
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WS

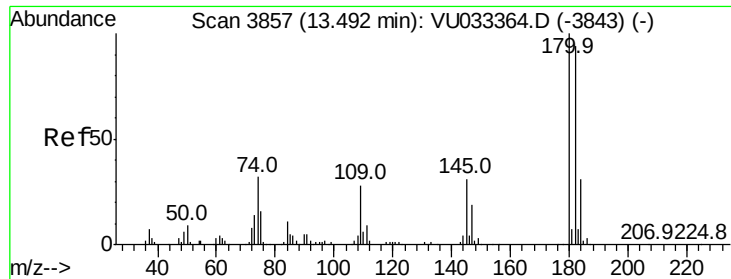
Tot Ion:146 Resp: 62015
 Ion Ratio Lower Upper
 146 100
 111 40.0 32.2 48.4
 148 62.4 51.0 76.4



#85
 1,2-Dichlorobenzene
 Concen: 10.158 ug/l
 RT: 11.86 min Scan# 3351
 Delta R.T. -0.00 min
 Lab File: VU033377.D
 Acq: 23 Jul 2019 13:16

Tgt Ion:146 Resp: 191156
 Ion Ratio Lower Upper
 146 100
 111 43.7 21.7 65.1
 148 64.0 32.0 96.0





#87

1,2,4-Trichlorobenzene

Concen: 3.428 ug/l

RT: 13.49 min Scan# 3857

Delta R.T. 0.00 min

Lab File: VU033377.D

Acq: 23 Jul 2019 13:16

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WS

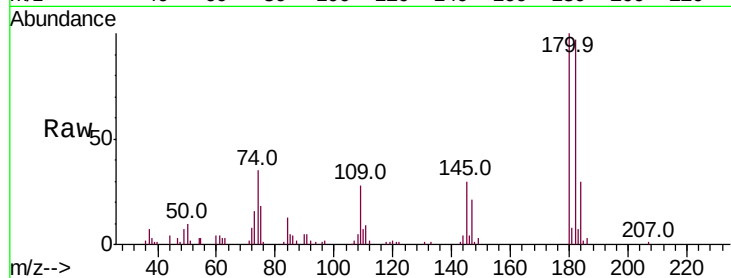
Tot Ion:180 Resp: 38381

Ion Ratio Lower Upper

180 100

182 95.1 76.2 114.4

145 30.7 25.0 37.4



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

