

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072319\
 Data File : VU033380.D
 Acq On : 23 Jul 2019 14:37
 Operator : JC/SP
 Sample : K3860-07DL 2X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WSDL

Quant Time: Jul 24 04:35:02 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

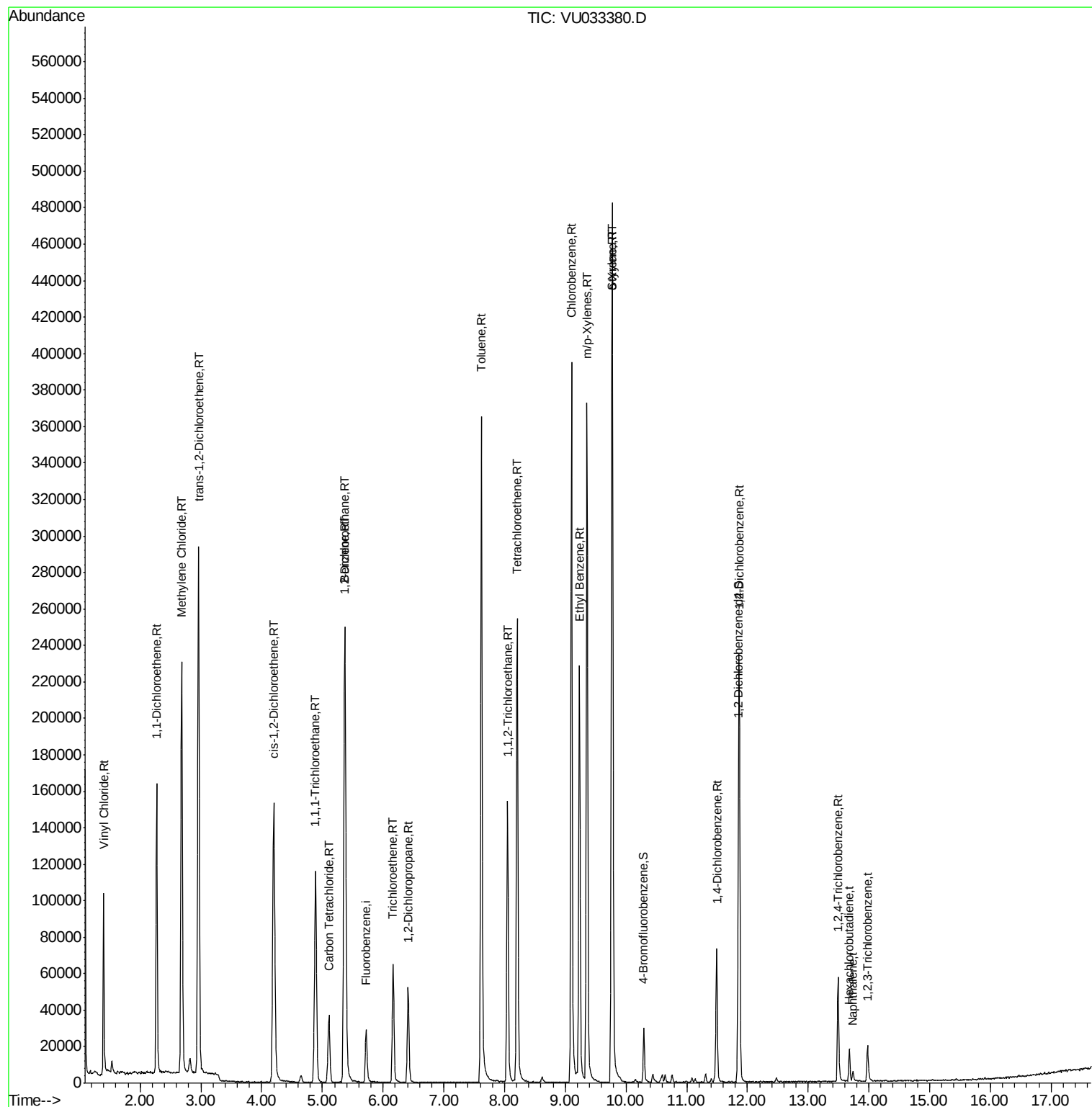
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	5.72	96	27933	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.30	95	10485	0.96	ug/l	0.00
Spiked Amount 1.000			Recovery	=	96.00%	
68) 1,2-Dichlorobenzene-d4	11.85	152	10686	0.94	ug/l	0.00
Spiked Amount 1.000			Recovery	=	94.00%	
Target Compounds					Ovalue	
4) Vinyl Chloride	1.40	62	66543	4.677	ug/l	99
9) 1,1-Dichloroethene	2.27	96	49654	5.002	ug/l	99
15) Methylene Chloride	2.68	84	97514	7.285	ug/l	98
16) trans-1,2-Dichloroethene	2.96	96	107097	9.086	ug/l	97
22) cis-1,2-Dichloroethene	4.20	96	83030	9.295	ug/l	87
28) 1,1,1-Trichloroethane	4.89	97	88836	6.347	ug/l	98
30) Carbon Tetrachloride	5.11	117	27306	2.216	ug/l	96
35) Benzene	5.36	78	210457	6.309	ug/l	100
36) 1,2-Dichloroethane	5.38	62	83009	7.478	ug/l	98
37) Trichloroethene	6.17	130	24262	2.756	ug/l	96
38) 1,2-Dichloropropane	6.41	63	20153	2.190	ug/l	95
49) Toluene	7.62	92	157880	8.262	ug/l	99
52) 1,1,2-Trichloroethane	8.05	97	49376	7.251	ug/l	98
58) Tetrachloroethene	8.21	164	56694	7.101	ug/l	98
59) Chlorobenzene	9.10	112	220232	10.053	ug/l	98
63) Ethyl Benzene	9.23	91	156423	4.447	ug/l	100
64) m/p-Xylenes	9.36	106	105917	7.531	ug/l	98
65) o-Xylene	9.76	106	51068	3.789	ug/l	98
66) Styrene	9.78	104	189845	8.304	ug/l	95
83) 1,4-Dichlorobenzene	11.49	146	30976	1.614	ug/l	98
85) 1,2-Dichlorobenzene	11.86	146	90160	4.956	ug/l	99
87) 1,2,4-Trichlorobenzene	13.49	180	18664	1.724	ug/l	99
88) Hexachlorobutadiene	13.68	225	3429	0.514	ug/l	94
89) Naphthalene	13.74	128	6327	0.899	ug/l #	95
90) 1,2,3-Trichlorobenzene	13.98	180	7444	0.709	ug/l	98
-----	-----	-----	-----	-----	-----	-----

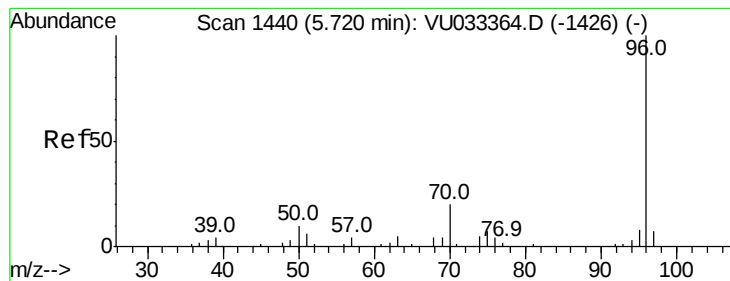
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU033380.D

Acq: 23 Jul 2019 14:37

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WSDL

Tot Ion: 96 Resp: 27933

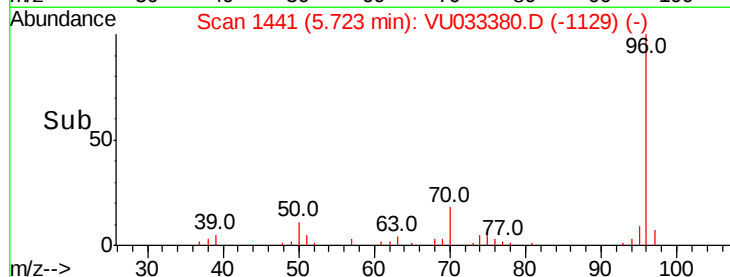
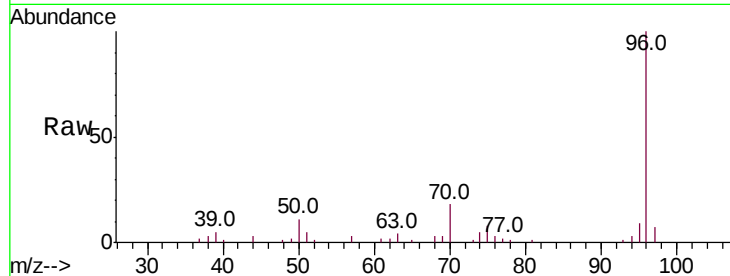
Ion Ratio Lower Upper

96 100

70 21.1 16.4 24.6

95 9.5 6.7 10.1

97 7.5 0.0 0.0#

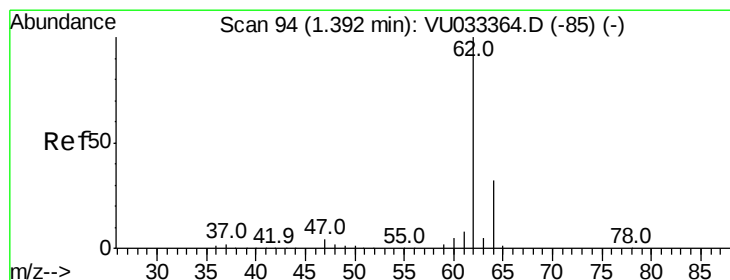
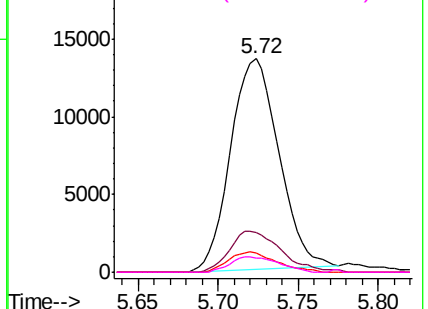


Abundance Ion 96.00 (95.70 to 96.70): VU0

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



#4

Vinyl Chloride

Concen: 4.677 ug/l

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033380.D

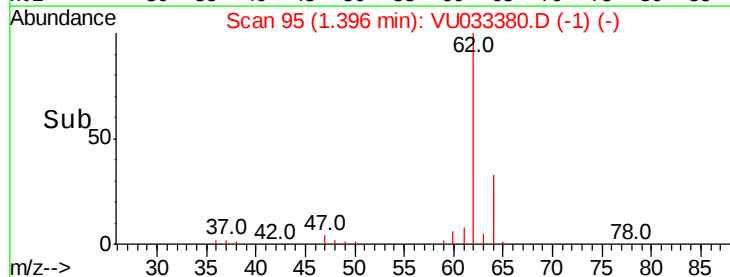
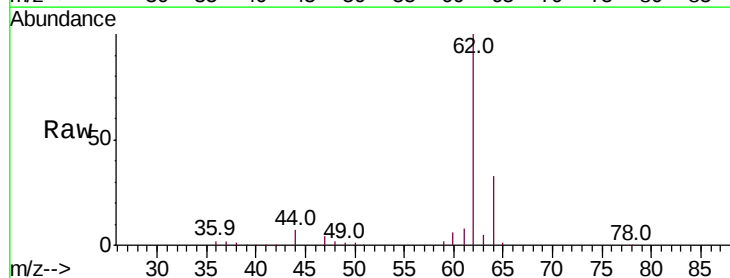
Acq: 23 Jul 2019 14:37

Tgt Ion: 62 Resp: 66543

Ion Ratio Lower Upper

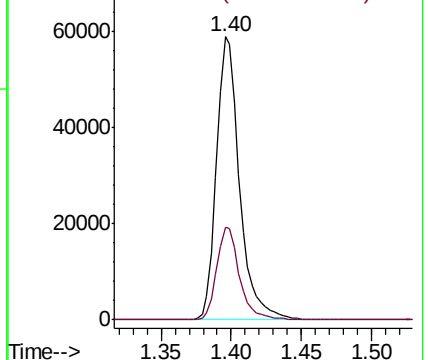
62 100

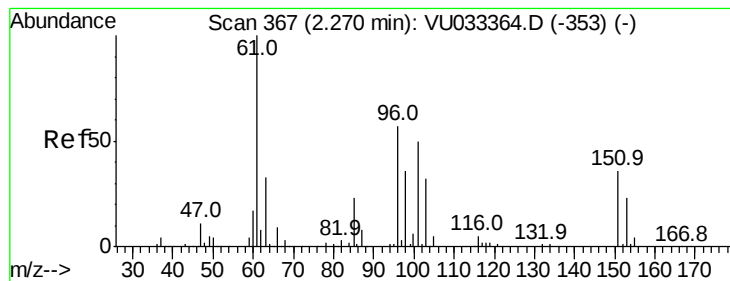
64 32.8 25.6 38.4



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0





#9

1,1-Dichloroethene

Concen: 5.002 ug/l

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU033380.D

Acq: 23 Jul 2019 14:37

Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

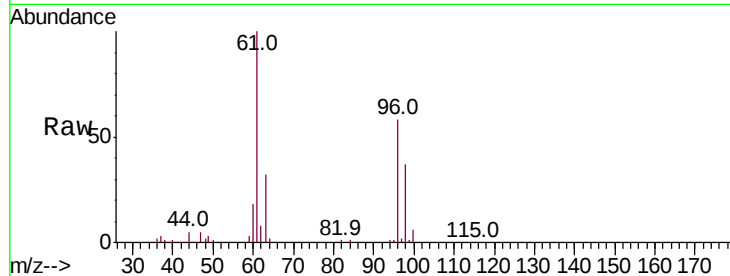
Tot Ion: 96 Resp: 49654

Ion Ratio Lower Upper

96 100

61 172.5 0.0 525.6

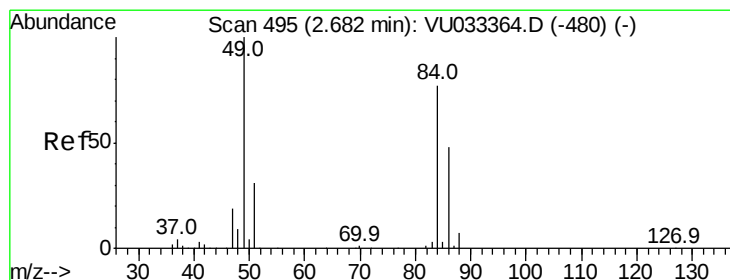
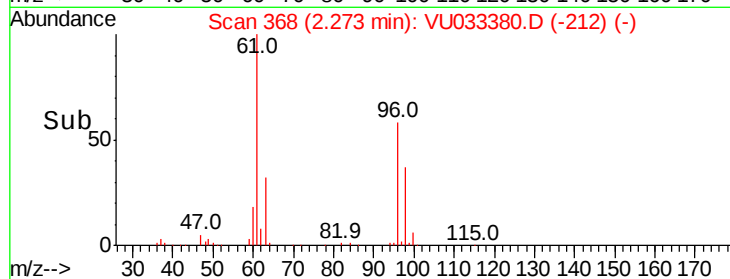
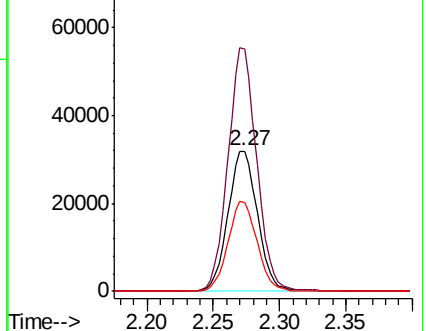
98 63.0 0.0 126.4



Abundance Ion 96.00 (95.70 to 96.70): VU033364.D (-353) (-)

Ion 61.00 (60.70 to 61.70): VU033364.D (-353) (-)

Ion 98.00 (97.70 to 98.70): VU033364.D (-353) (-)



#15

Methylene Chloride

Concen: 7.285 ug/l

RT: 2.68 min Scan# 496

Delta R.T. 0.00 min

Lab File: VU033380.D

Acq: 23 Jul 2019 14:37

Tgt Ion: 84 Resp: 97514

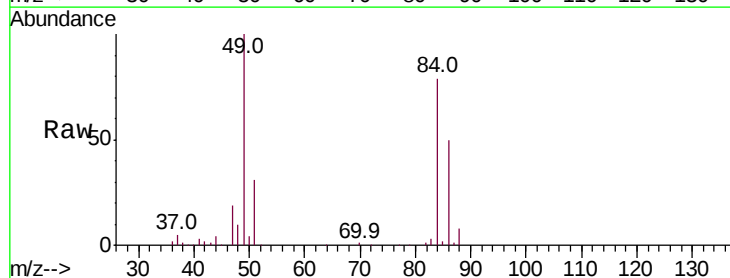
Ion Ratio Lower Upper

84 100

49 126.2 103.5 155.3

51 39.4 0.0 80.4

86 63.6 50.1 75.1

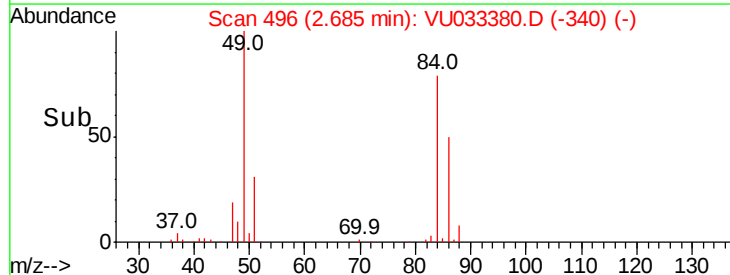
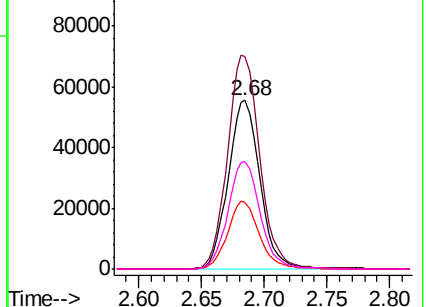


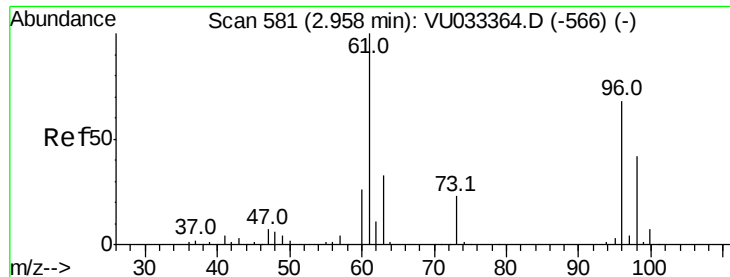
Abundance Ion 84.00 (83.70 to 84.70): VU033364.D (-480) (-)

Ion 49.00 (48.70 to 49.70): VU033364.D (-480) (-)

Ion 51.00 (50.70 to 51.70): VU033364.D (-480) (-)

Ion 86.00 (85.70 to 86.70): VU033364.D (-480) (-)

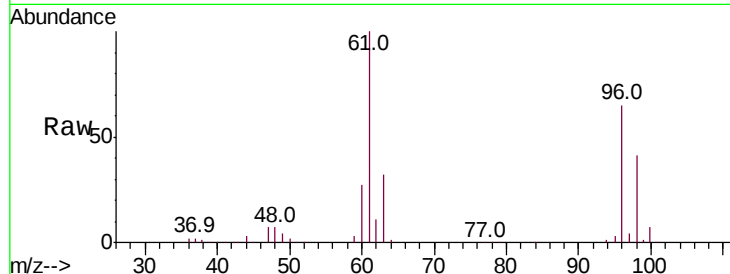




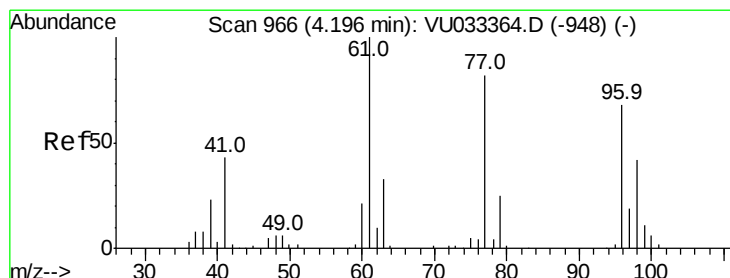
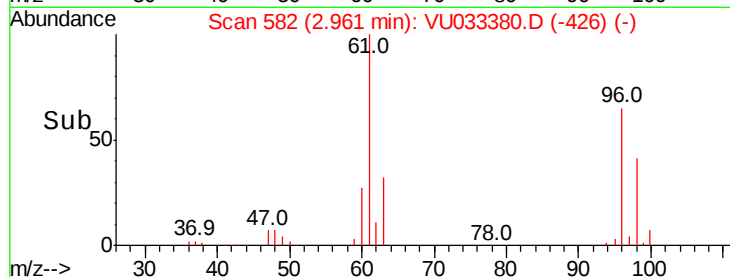
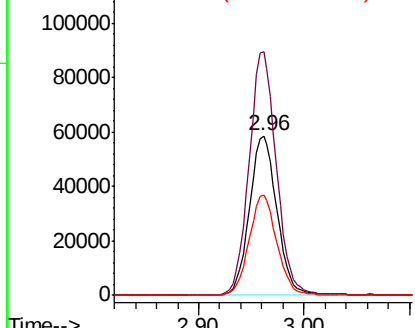
#16
trans-1,2-Dichloroethene
Concen: 9.086 ug/l
RT: 2.96 min Scan# 582
Delta R.T. 0.00 min
Lab File: VU033380.D
Acq: 23 Jul 2019 14:37

Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

Tot Ion: 96 Resp: 107097
Ion Ratio Lower Upper
96 100
61 152.7 118.0 177.0
98 63.3 49.4 74.2

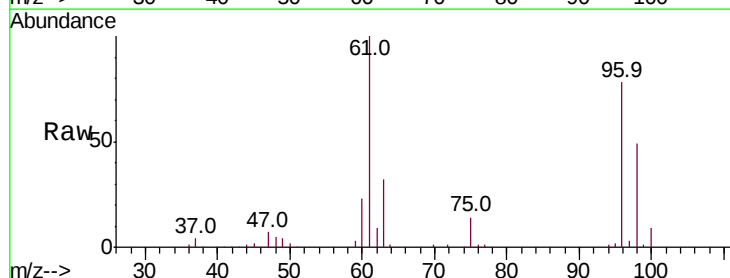


Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

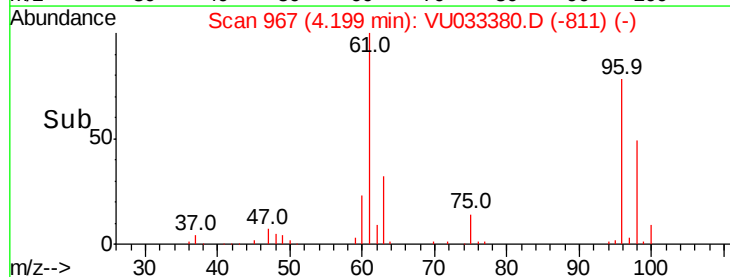
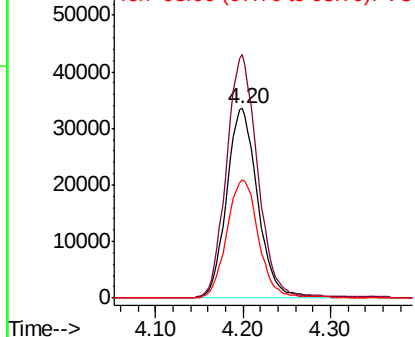


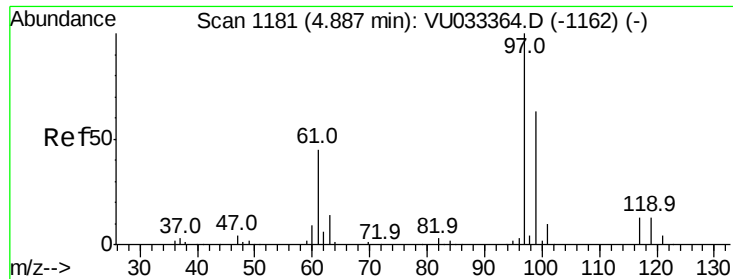
#22
cis-1,2-Dichloroethene
Concen: 9.295 ug/l
RT: 4.20 min Scan# 967
Delta R.T. 0.00 min
Lab File: VU033380.D
Acq: 23 Jul 2019 14:37

Tgt Ion: 96 Resp: 83030
Ion Ratio Lower Upper
96 100
61 127.5 0.0 376.3
98 62.7 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

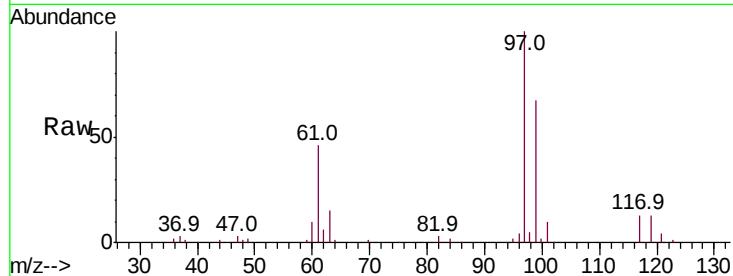




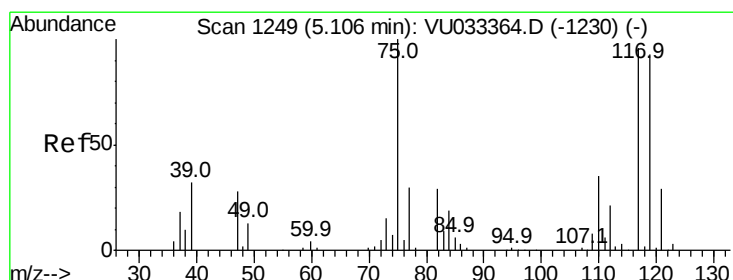
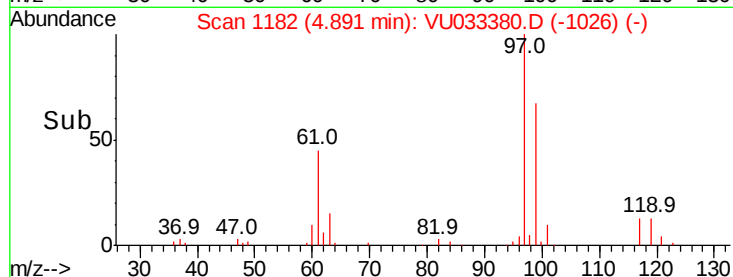
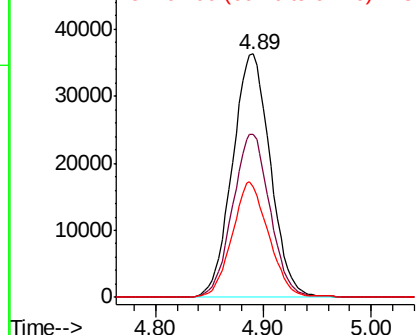
#28
 1,1,1-Trichloroethane
 Concen: 6.347 ug/l
 RT: 4.89 min Scan# 1182
 Delta R.T. 0.00 min
 Lab File: VU033380.D
 Acq: 23 Jul 2019 14:37

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WSDL

Tot Ion: 97 Resp: 88836
 Ion Ratio Lower Upper
 97 100
 99 66.0 31.9 95.5
 61 46.0 22.7 68.0

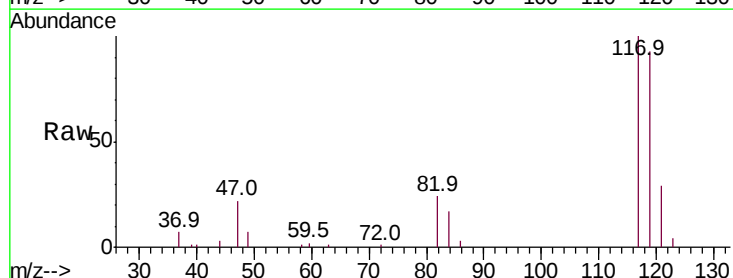


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0

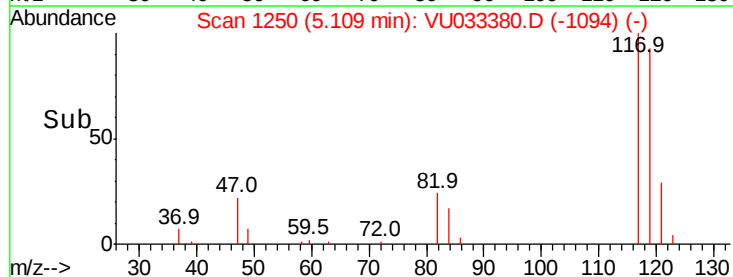
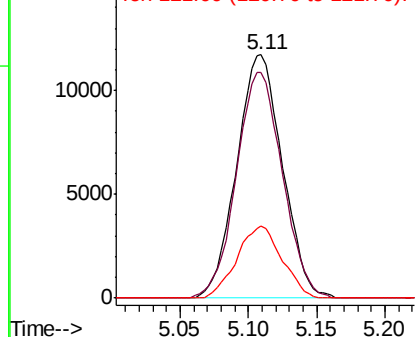


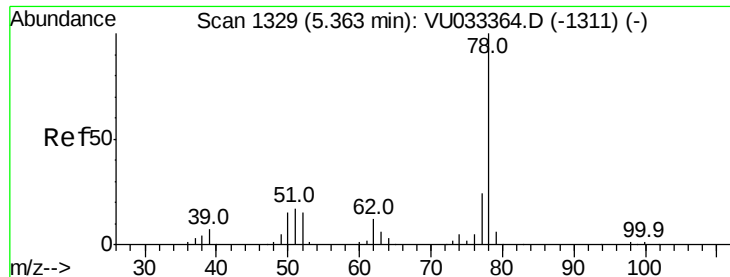
#30
 Carbon Tetrachloride
 Concen: 2.216 ug/l
 RT: 5.11 min Scan# 1250
 Delta R.T. 0.00 min
 Lab File: VU033380.D
 Acq: 23 Jul 2019 14:37

Tgt Ion: 117 Resp: 27306
 Ion Ratio Lower Upper
 117 100
 119 92.8 77.9 116.9
 121 29.5 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: 6.309 ug/l

RT: 5.36 min Scan# 1329

Delta R.T. -0.00 min

Lab File: VU033380.D

Acq: 23 Jul 2019 14:37

Instrument :

MSVOA_U

ClientSampleId :

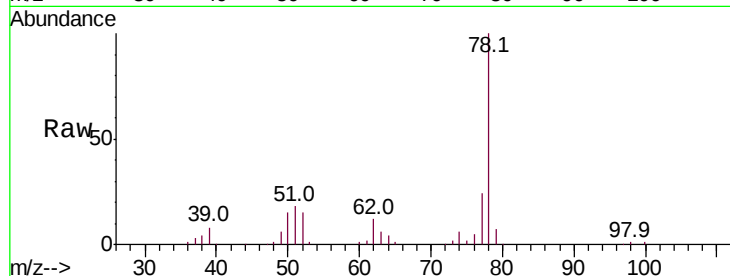
PT-RVOA-WSDL

Tot Ion: 78 Resp: 210457

Ion Ratio Lower Upper

78 100

77 24.3 19.4 29.2



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

Ion 77.00 (76.70 to 77.70): VU033380.D (-1174) (-)

5.36

100000

80000

60000

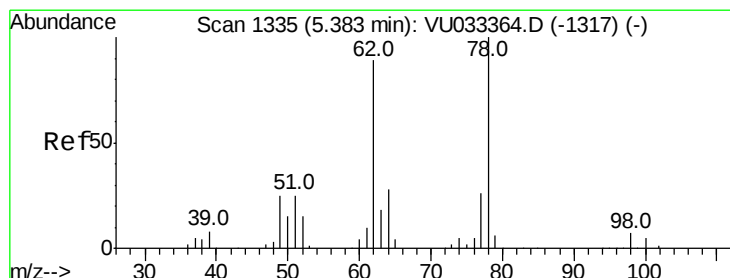
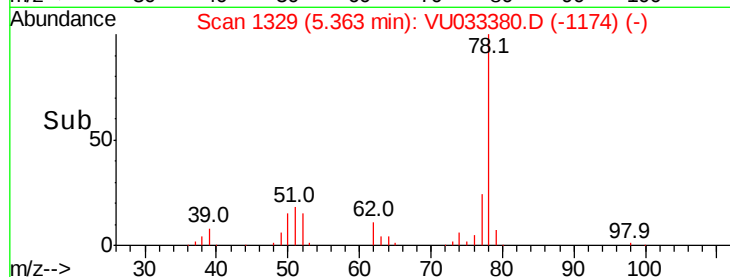
40000

20000

0

5.30 5.40 5.50

Time-->



#36

1,2-Dichloroethane

Concen: 7.478 ug/l

RT: 5.38 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VU033380.D

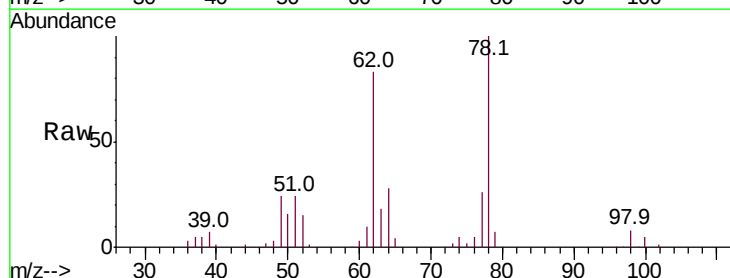
Acq: 23 Jul 2019 14:37

Tgt Ion: 62 Resp: 83009

Ion Ratio Lower Upper

62 100

98 8.7 6.5 9.7



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

Ion 98.00 (97.70 to 98.70): VU033380.D (-1180) (-)

5.38

40000

30000

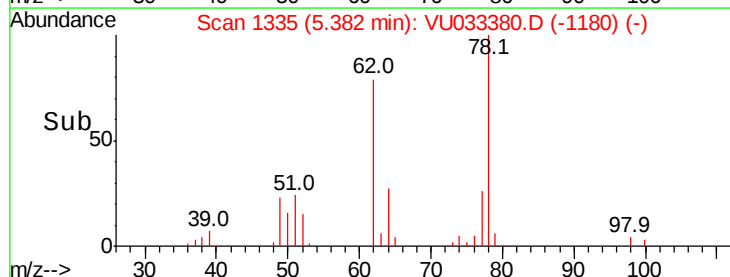
20000

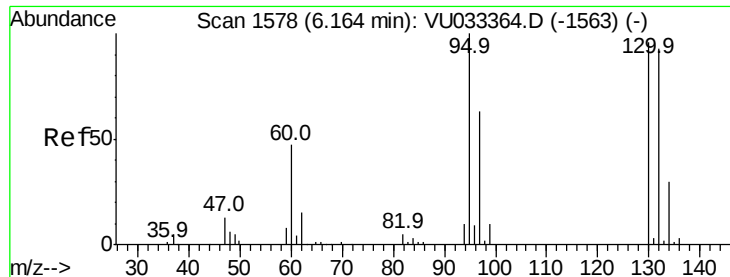
10000

0

5.30 5.40 5.50

Time-->





#37

Trichloroethene

Concen: 2.756 ug/l

RT: 6.17 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VU033380.D

Acq: 23 Jul 2019 14:37

Instrument :

MSVOA_U

ClientSampleId :

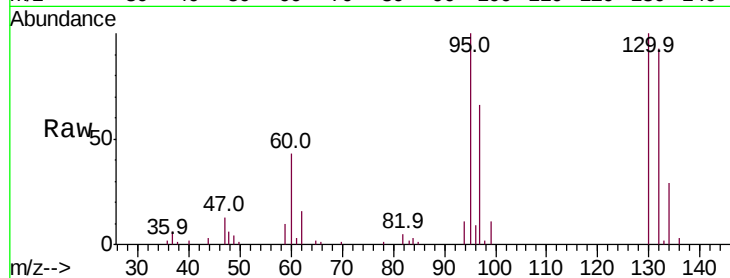
PT-RVOA-WSDL

Tot Ion:130 Resp: 24262

Ion Ratio Lower Upper

130 100

95 99.9 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) (-)

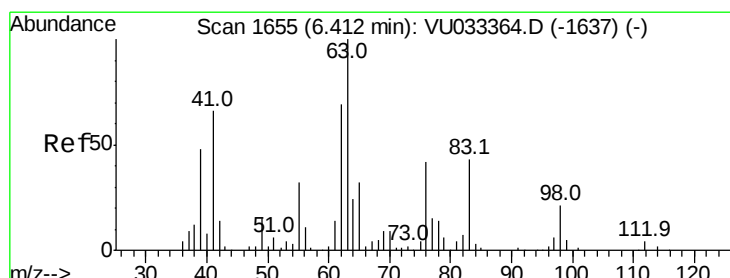
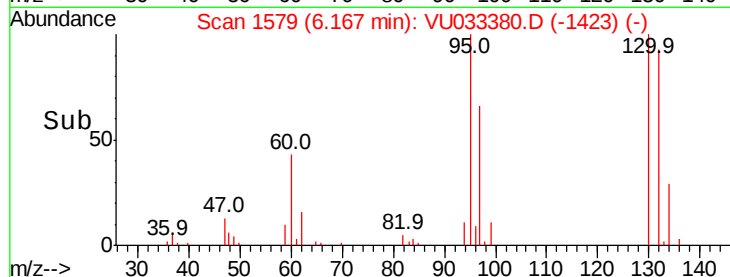
6.17

10000

5000

0

Time-->



#38

1,2-Dichloropropane

Concen: 2.190 ug/l

RT: 6.41 min Scan# 1656

Delta R.T. 0.00 min

Lab File: VU033380.D

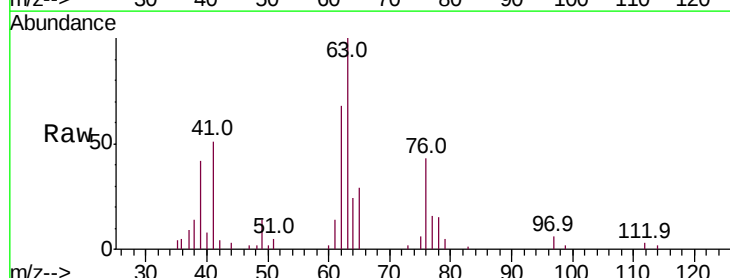
Acq: 23 Jul 2019 14:37

Tgt Ion: 63 Resp: 20153

Ion Ratio Lower Upper

63 100

65 29.4 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) (-)

6.41

12000

10000

8000

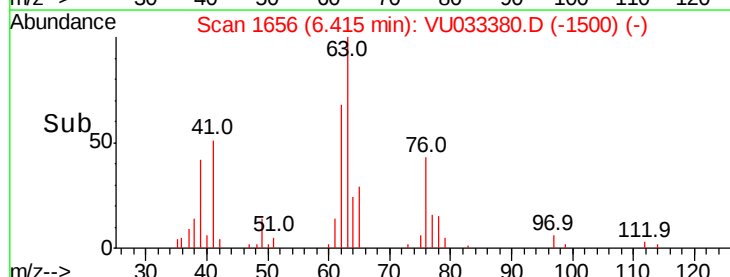
6000

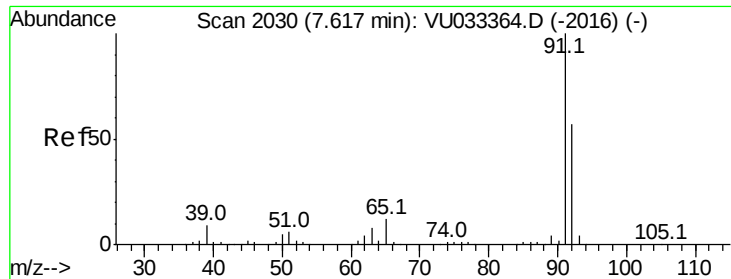
4000

2000

0

Time-->





#49

Toluene

Concen: 8.262 ug/l

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU033380.D

Acq: 23 Jul 2019 14:37

Instrument :

MSVOA_U

ClientSampleId :

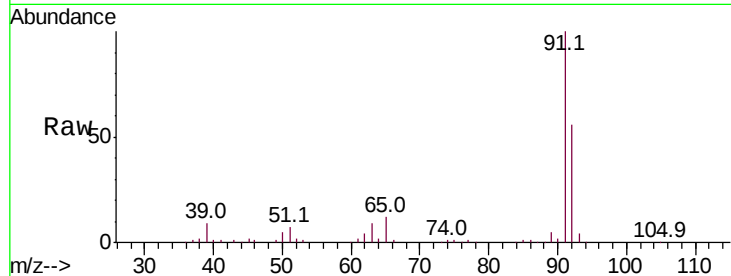
PT-RVOA-WSDL

Tot Ion: 92 Resp: 157880

Ion Ratio Lower Upper

92 100

91 178.4 142.1 213.1



Abundance Ion 92.00 (91.70 to 92.70): VU033364.D (-2016) (-)

Ion 91.00 (90.70 to 91.70): VU033364.D (-2016) (-)

150000

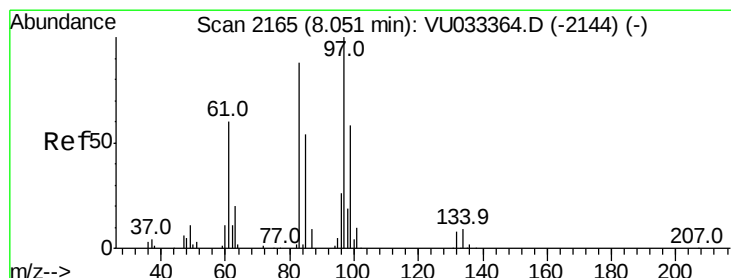
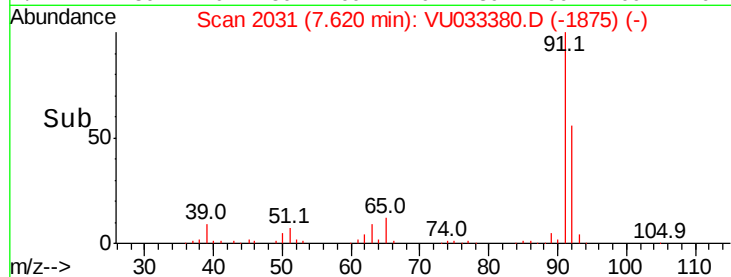
100000

50000

0

7.60 7.62 7.70

Time-->



#52

1,1,2-Trichloroethane

Concen: 7.251 ug/l

RT: 8.05 min Scan# 2165

Delta R.T. -0.00 min

Lab File: VU033380.D

Acq: 23 Jul 2019 14:37

Tgt Ion: 97 Resp: 49376

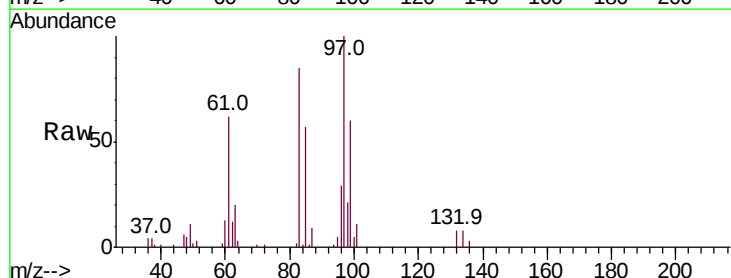
Ion Ratio Lower Upper

97 100

83 85.3 70.2 105.2

85 56.6 43.5 65.3

99 60.0 47.9 71.9



Abundance Ion 97.00 (96.70 to 97.70): VU033364.D (-2144) (-)

Ion 82.95 (82.65 to 83.65): VU033364.D (-2144) (-)

Ion 84.95 (84.65 to 85.65): VU033364.D (-2144) (-)

Ion 98.95 (98.65 to 99.65): VU033364.D (-2144) (-)

40000

30000

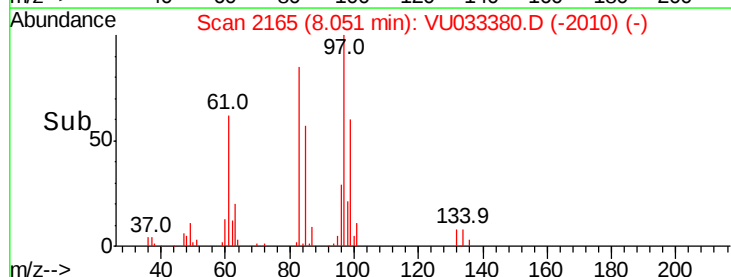
20000

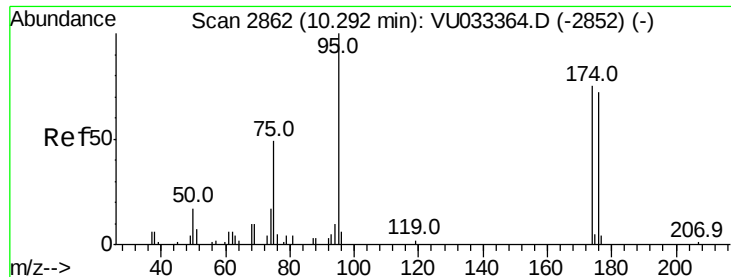
10000

0

8.00 8.05 8.10 8.20

Time-->

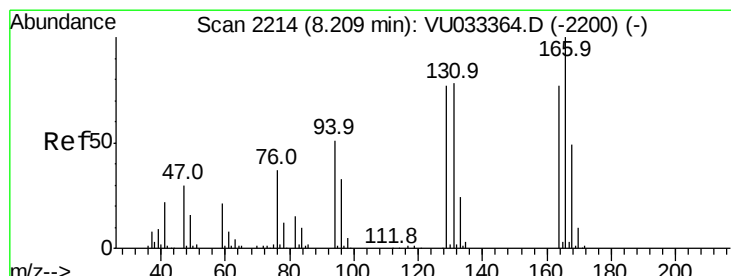
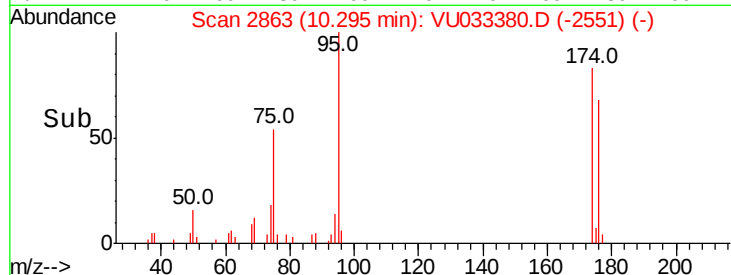
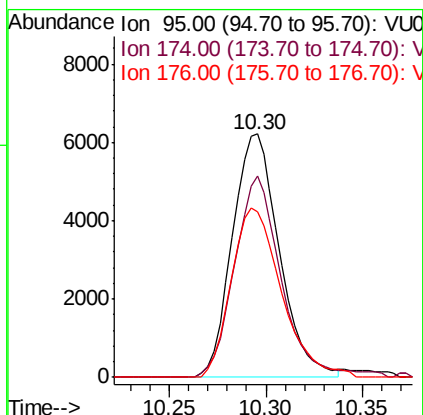
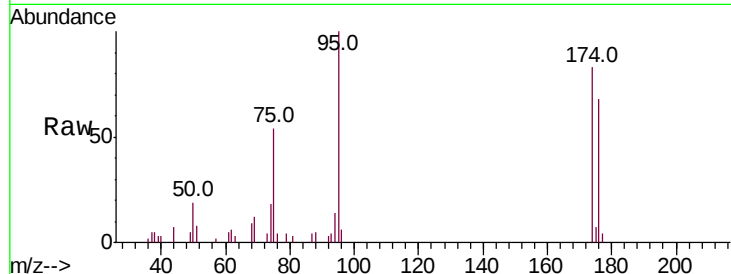




#57
4-Bromofluorobenzene
Concen: 0.956 ug/l
RT: 10.30 min Scan# 2863
Delta R.T. 0.00 min
Lab File: VU033380.D
Acq: 23 Jul 2019 14:37

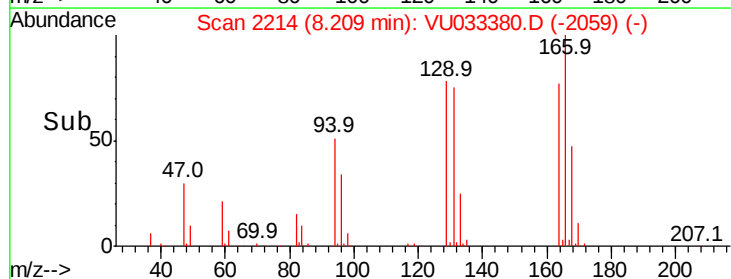
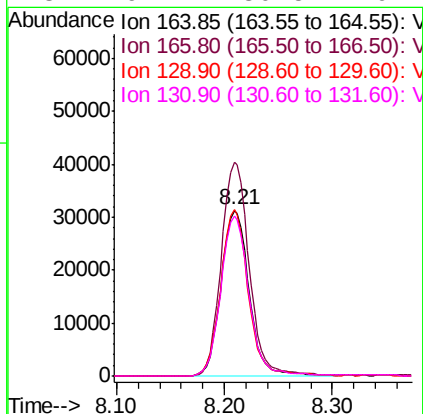
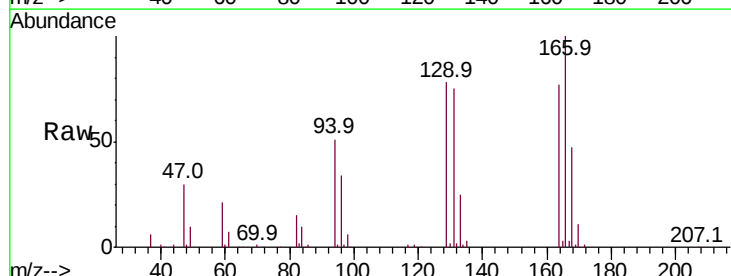
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

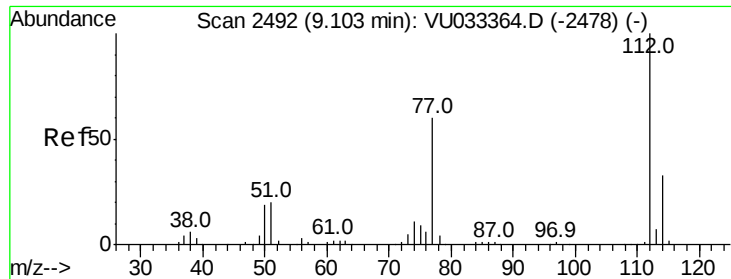
Tot Ion: 95 Resp: 10485
Ion Ratio Lower Upper
95 100
174 82.5 58.8 88.2
176 74.1 54.4 81.6



#58
Tetrachloroethene
Concen: 7.101 ug/l
RT: 8.21 min Scan# 2214
Delta R.T. -0.00 min
Lab File: VU033380.D
Acq: 23 Jul 2019 14:37

Tgt Ion: 164 Resp: 56694
Ion Ratio Lower Upper
164 100
166 129.2 103.8 155.6
129 100.9 79.7 119.5
131 97.2 80.5 120.7





#59

Chlorobenzene

Concen: 10.053 ug/l

RT: 9.10 min Scan# 2492

Delta R.T. -0.00 min

Lab File: VU033380.D

Acq: 23 Jul 2019 14:37

Instrument :

MSVOA_U

ClientSampleId :

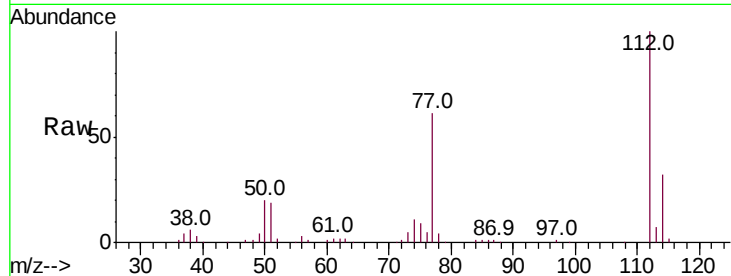
PT-RVOA-WSDL

Tot Ion:112 Resp: 220232

Ion Ratio Lower Upper

112 100

114 31.8 26.4 39.6



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

9.10

150000

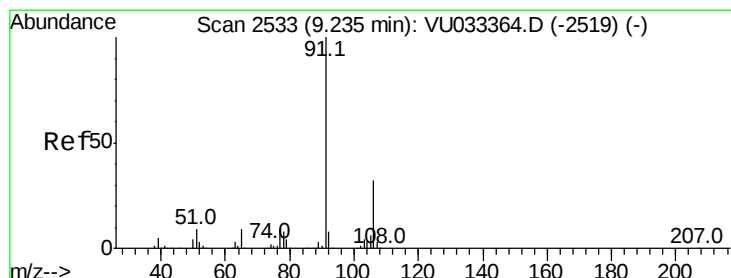
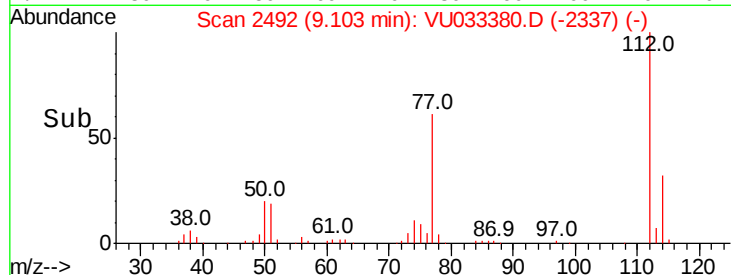
100000

50000

0

Time-->

9.00 9.10 9.20



#63

Ethyl Benzene

Concen: 4.447 ug/l

RT: 9.23 min Scan# 2533

Delta R.T. -0.00 min

Lab File: VU033380.D

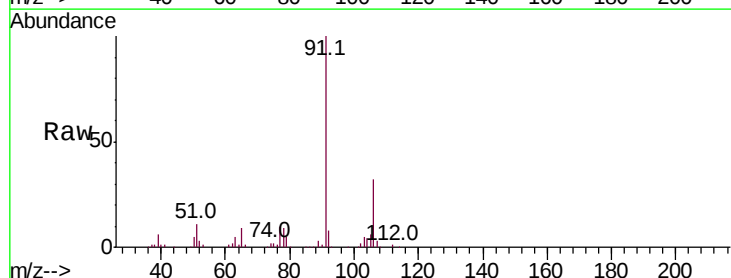
Acq: 23 Jul 2019 14:37

Tgt Ion: 91 Resp: 156423

Ion Ratio Lower Upper

91 100

106 31.6 25.4 38.2



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V

9.23

150000

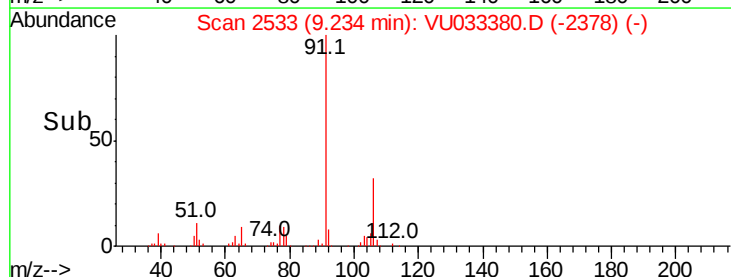
100000

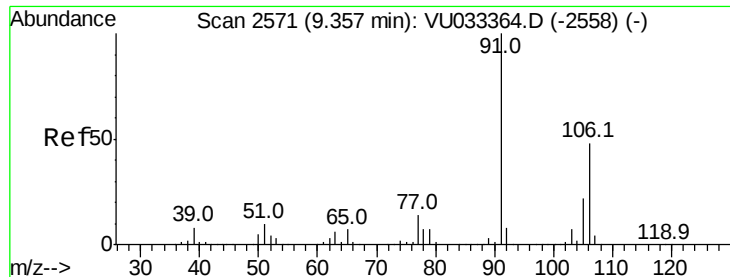
50000

0

Time-->

9.15 9.20 9.25 9.30 9.35





#64

m/p-Xylenes

Concen: 7.531 ug/l

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU033380.D

Acq: 23 Jul 2019 14:37

Instrument :

MSVOA_U

ClientSampleId :

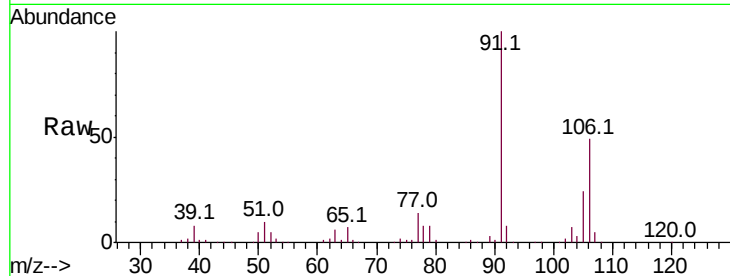
PT-RVOA-WSDL

Tot Ion:106 Resp: 105917

Ion Ratio Lower Upper

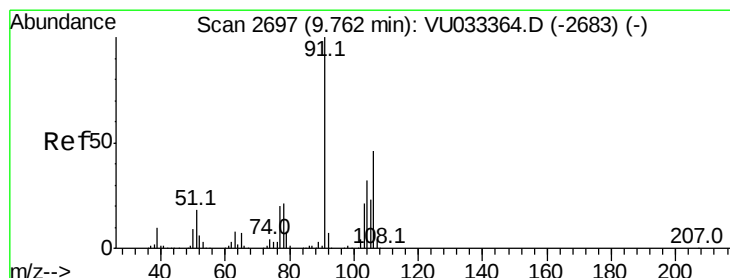
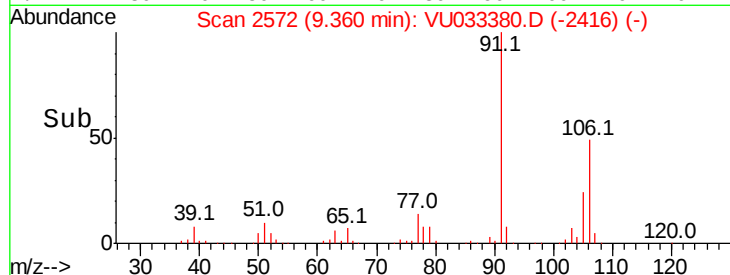
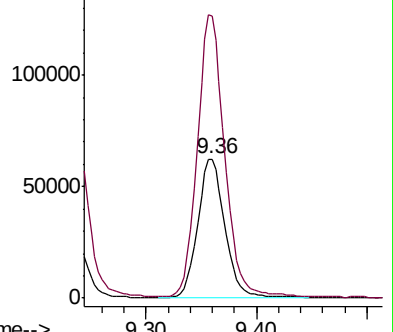
106 100

91 205.8 167.1 250.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#65

o-Xylene

Concen: 3.789 ug/l

RT: 9.76 min Scan# 2698

Delta R.T. 0.00 min

Lab File: VU033380.D

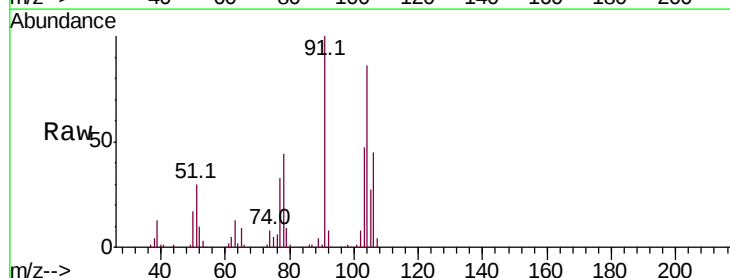
Acq: 23 Jul 2019 14:37

Tgt Ion:106 Resp: 51068

Ion Ratio Lower Upper

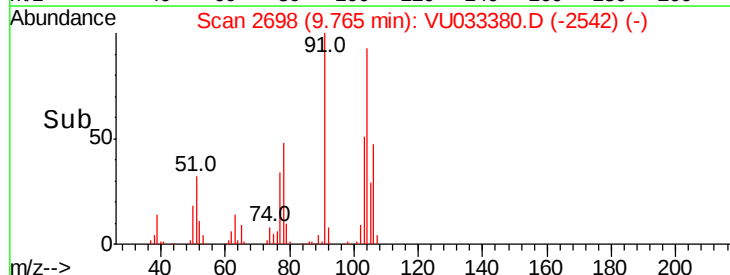
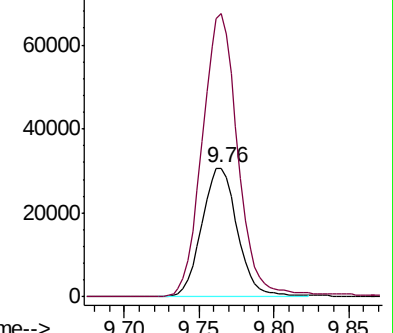
106 100

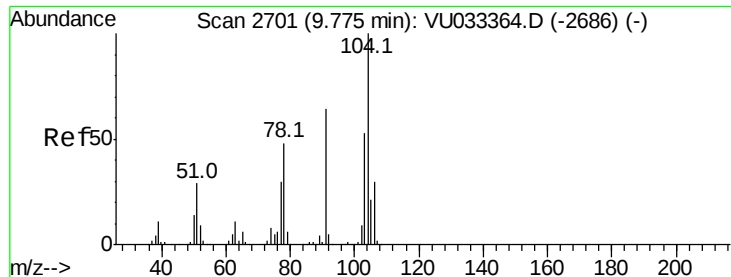
91 219.4 108.5 325.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

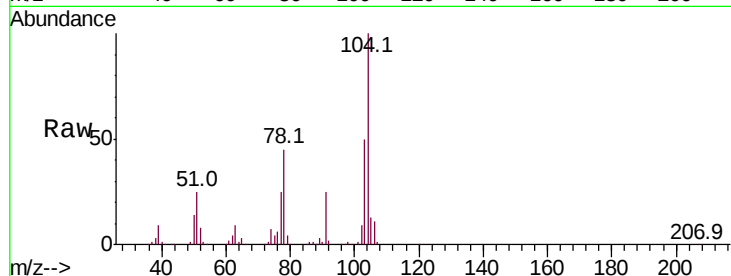




#66
Stvrene
Concen: 8.304 ug/l
RT: 9.78 min Scan# 2702
Delta R.T. 0.00 min
Lab File: VU033380.D
Acq: 23 Jul 2019 14:37

Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

Tot Ion	Ratio	Lower	Upper
104	100		
78	47.2	41.2	61.8
103	52.4	44.7	67.1

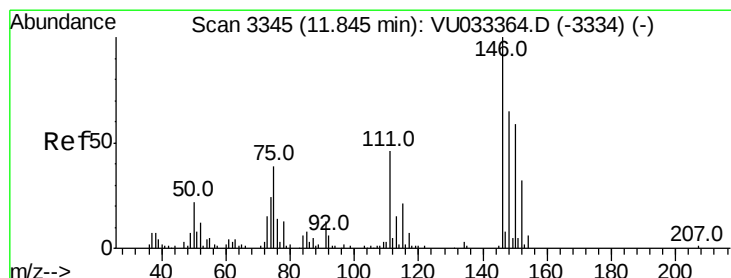
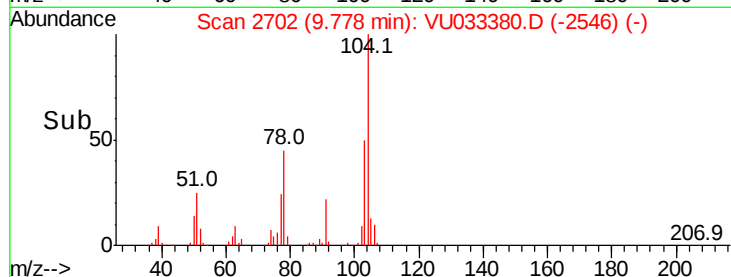
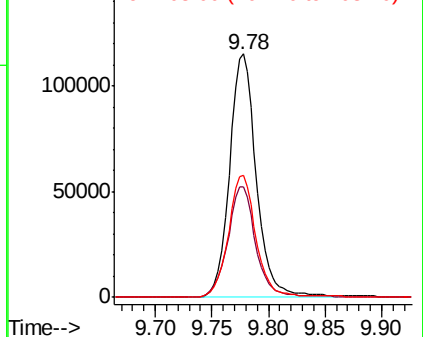


Abundance

Ion 104.00 (103.70 to 104.70): V

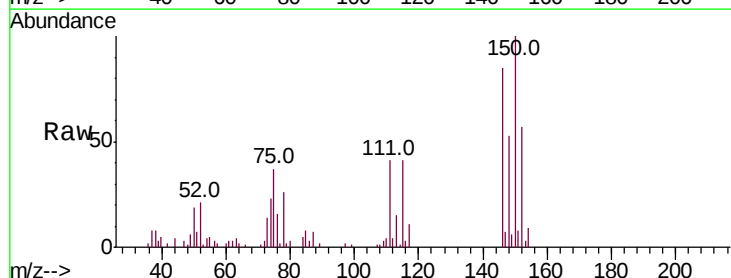
Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): V



#68
1,2-Dichlorobenzene-d4
Concen: 0.944 ug/l
RT: 11.85 min Scan# 3345
Delta R.T. -0.00 min
Lab File: VU033380.D
Acq: 23 Jul 2019 14:37

Tgt Ion	Ratio	Lower	Upper
152	100		
115	70.3	0.0	123.2
150	246.3	0.0	648.4

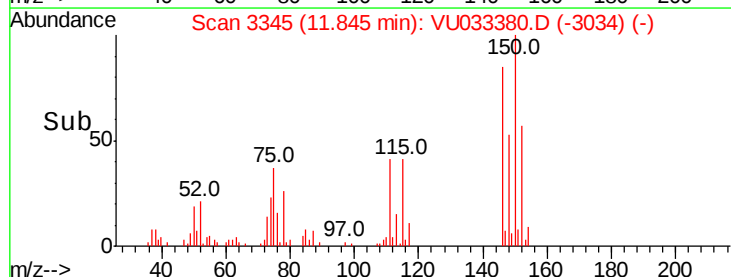
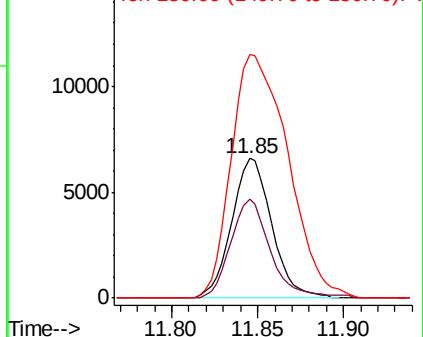


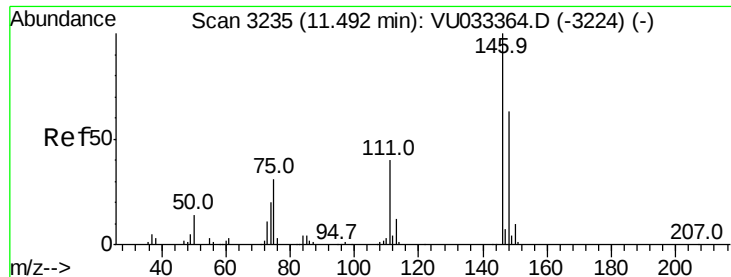
Abundance

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: 1.614 ug/l

RT: 11.49 min Scan# 3236

Delta R.T. 0.00 min

Lab File: VU033380.D

Acq: 23 Jul 2019 14:37

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WSDL

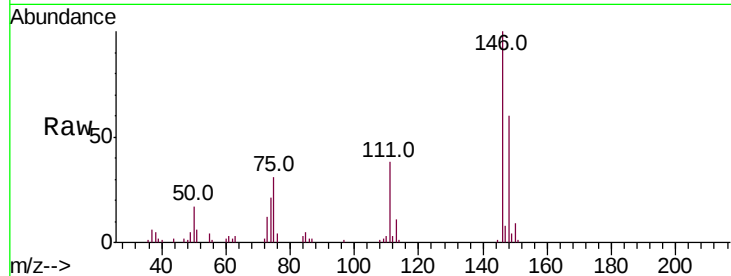
Tot Ion:146 Resp: 30976

Ion Ratio Lower Upper

146 100

111 38.7 32.2 48.4

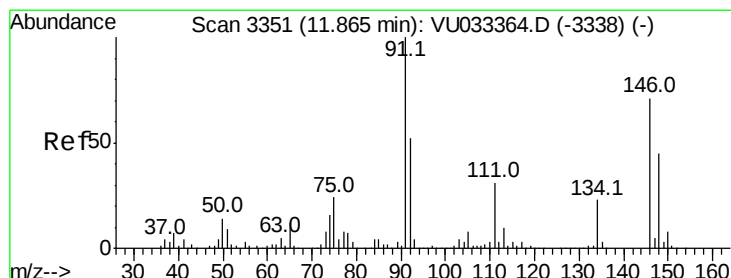
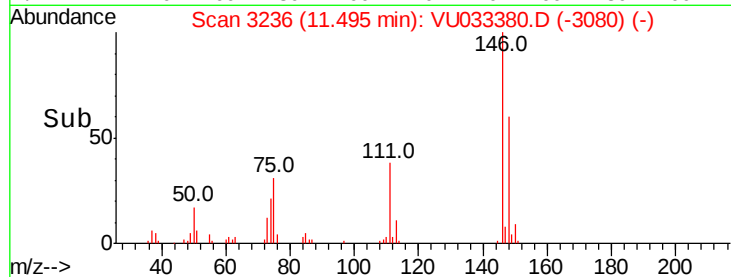
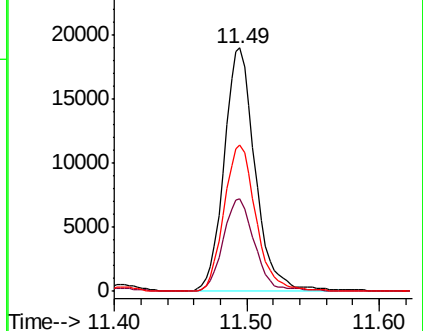
148 61.9 51.0 76.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#85

1,2-Dichlorobenzene

Concen: 4.956 ug/l

RT: 11.86 min Scan# 3351

Delta R.T. -0.00 min

Lab File: VU033380.D

Acq: 23 Jul 2019 14:37

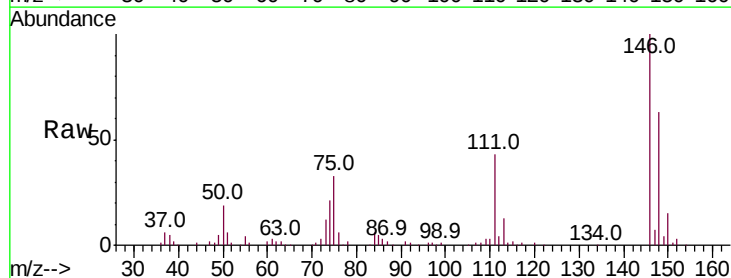
Tgt Ion:146 Resp: 90160

Ion Ratio Lower Upper

146 100

111 42.9 21.7 65.1

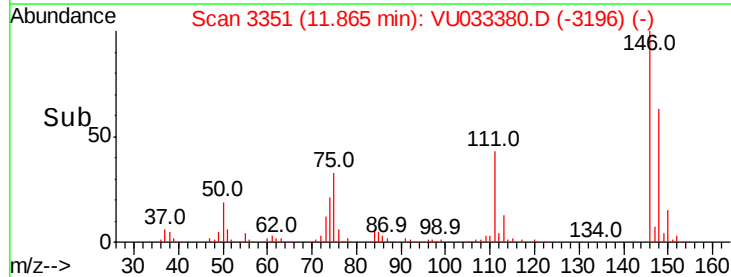
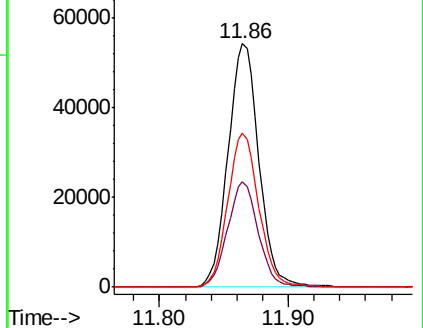
148 63.7 32.0 96.0

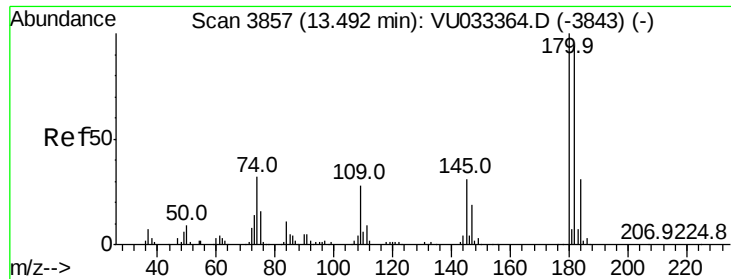


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

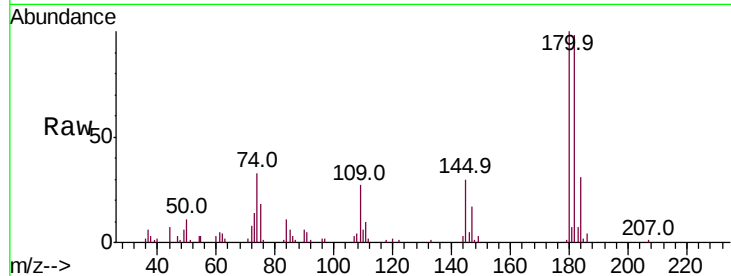




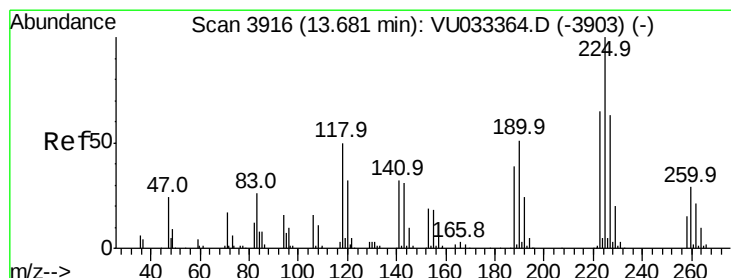
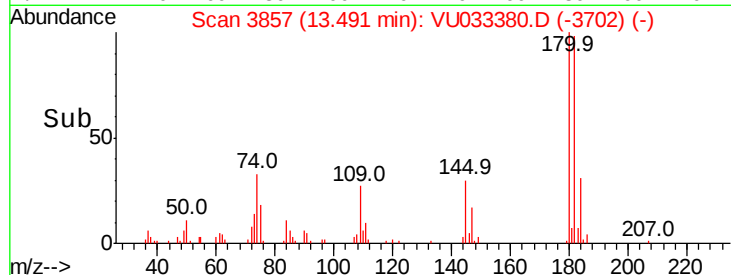
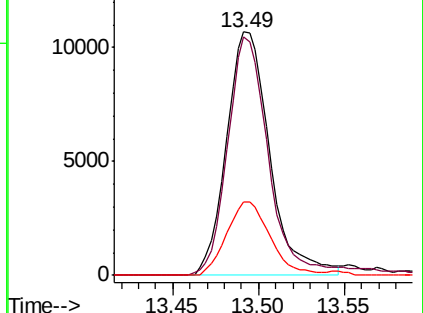
#87
 1,2,4-Trichlorobenzene
 Concen: 1.724 ug/l
 RT: 13.49 min Scan# 3857
 Delta R.T. -0.00 min
 Lab File: VU033380.D
 Acq: 23 Jul 2019 14:37

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WSDL

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.3	76.2	114.4
145	30.4	25.0	37.4

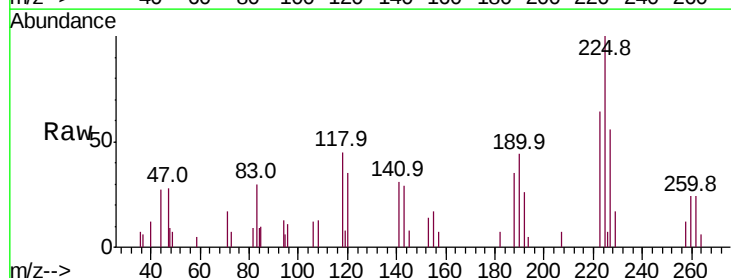


Abundance Ion 179.70 (179.40 to 180.40): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

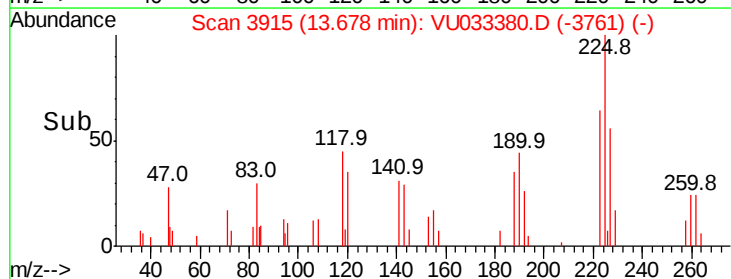
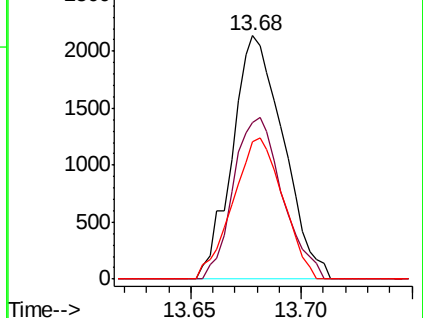


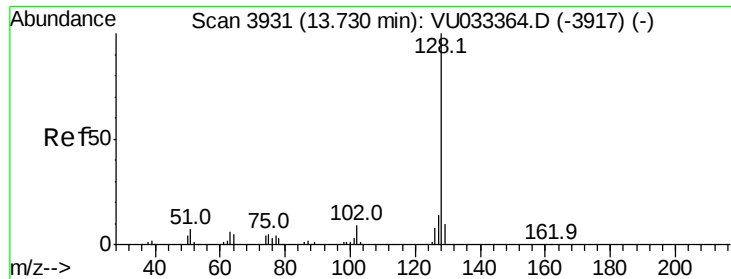
#88
 Hexachlorobutadiene
 Concen: 0.514 ug/l
 RT: 13.68 min Scan# 3915
 Delta R.T. -0.00 min
 Lab File: VU033380.D
 Acq: 23 Jul 2019 14:37

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.7	52.2	78.4
227	56.7	51.7	77.5



Abundance Ion 224.60 (224.30 to 225.30): V
 Ion 222.60 (222.30 to 223.30): V
 Ion 226.60 (226.30 to 227.30): V





#89

Naphthalene

Concen: 0.899 ug/l

RT: 13.74 min Scan# 3933

Delta R.T. 0.01 min

Lab File: VU033380.D

Acq: 23 Jul 2019 14:37

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WSDL

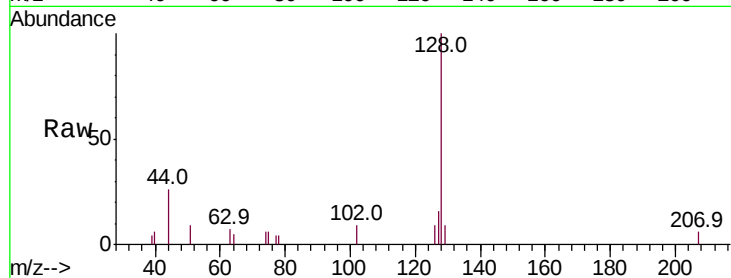
Tot Ion:128 Resp: 6327

Ion Ratio Lower Upper

128 100

127 13.3 10.8 16.2

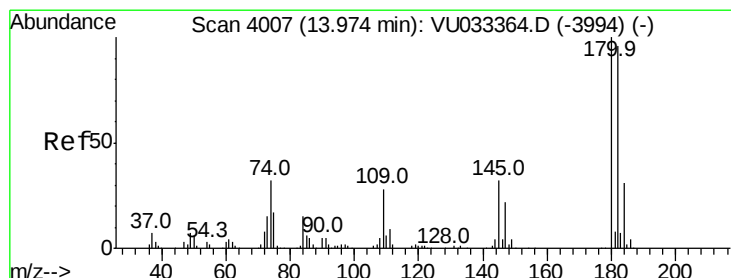
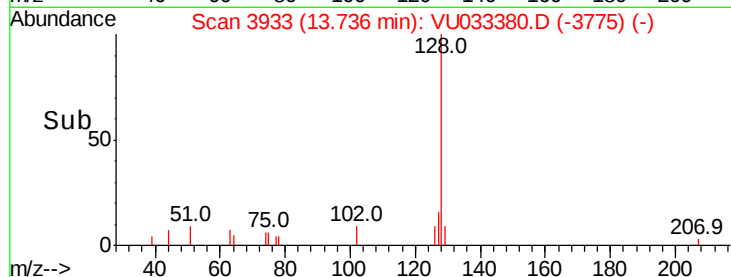
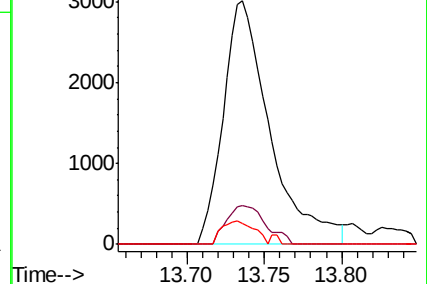
129 6.6 8.5 12.7#



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: 0.709 ug/l

RT: 13.98 min Scan# 4008

Delta R.T. 0.00 min

Lab File: VU033380.D

Acq: 23 Jul 2019 14:37

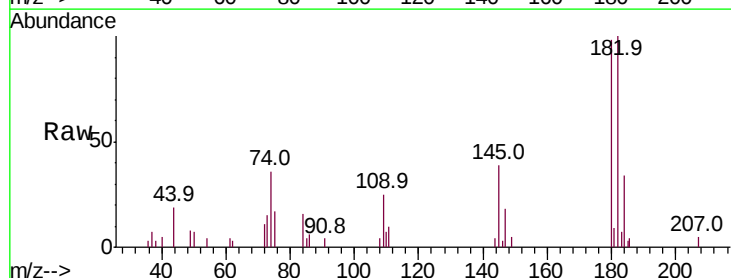
Tgt Ion:180 Resp: 7444

Ion Ratio Lower Upper

180 100

182 95.2 77.9 116.9

145 31.8 25.8 38.8



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

