

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061518\
 Data File : VX002618.D
 Acq On : 16 Jun 2018 01:01
 Operator : JC/MD
 Sample : J3467-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PR-MW-04-061118

Quant Time: Jun 16 03:51:09 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:37:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	213357	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	304828	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	278577	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	153449	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	145082	44.75	ug/l	0.00
Spiked Amount			Recovery	=	89.50%	
35) Dibromofluoromethane	5.51	113	109861	45.16	ug/l	0.00
Spiked Amount			Recovery	=	90.32%	
50) Toluene-d8	8.72	98	436418	47.24	ug/l	0.00
Spiked Amount			Recovery	=	94.48%	
62) 4-Bromofluorobenzene	11.14	95	149716	42.77	ug/l	0.00
Spiked Amount			Recovery	=	85.54%	

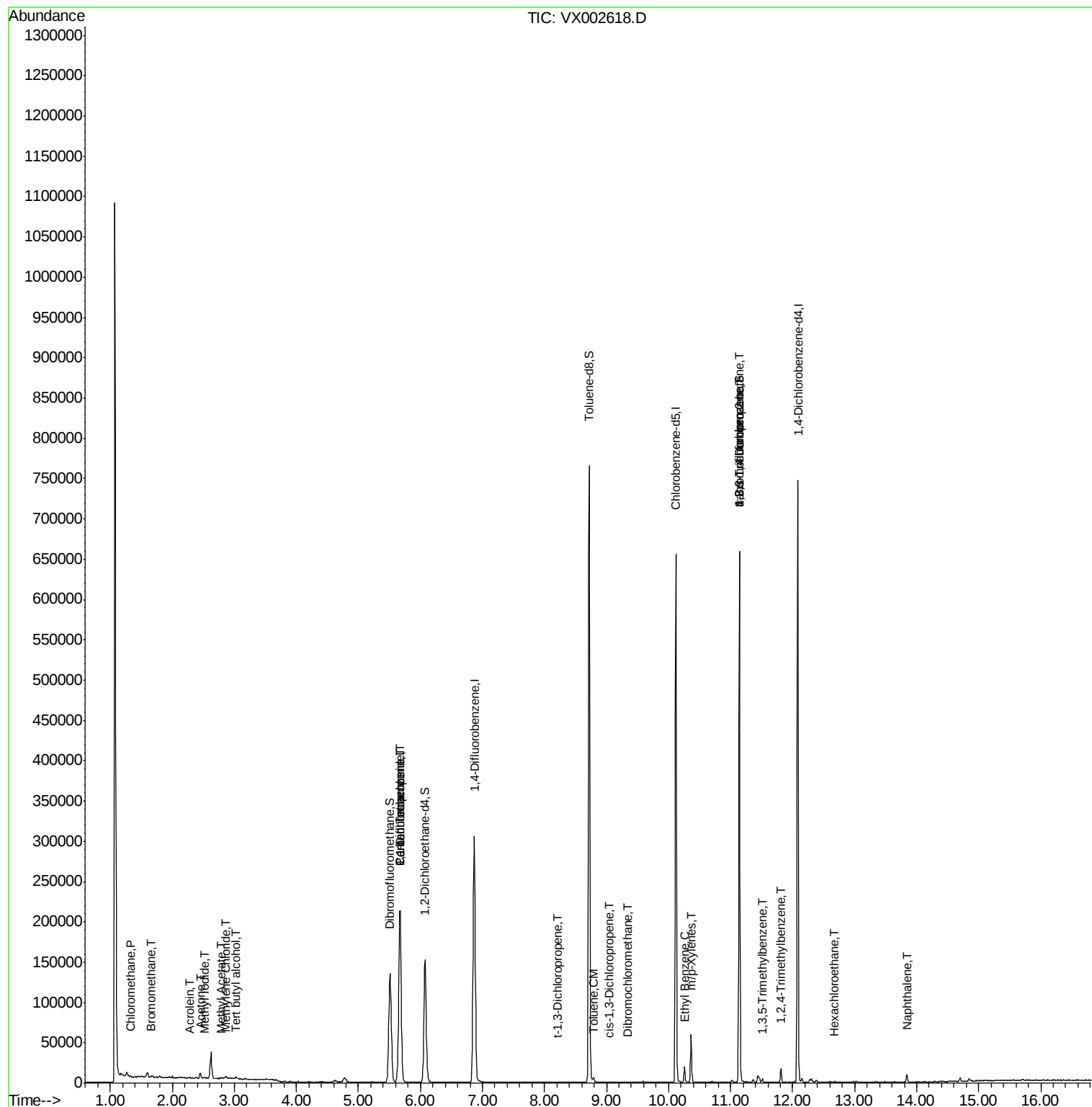
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	756	0.28	ug/l #	85
5) Bromomethane	1.65	94	1209	0.72	ug/l #	80
10) Methyl Iodide	2.51	142	1013	5.45	ug/l #	81
11) Tert butyl alcohol	3.02	59	1689	2.52	ug/l #	73
13) Acrolein	2.29	56	153	7.34	ug/l #	14
16) Acetone	2.45	43	6812	4.76	ug/l	99
18) Methyl Acetate	2.79	43	809	0.21	ug/l	92
20) Methylene Chloride	2.86	84	1206	0.41	ug/l #	80
36) 1,1-Dichloropropene	5.67	75	15223	4.70	ug/l #	46
38) Carbon Tetrachloride	5.67	117	19767	6.13	ug/l #	16
52) Toluene	8.79	92	1731	0.28	ug/l	98
53) t-1,3-Dichloropropene	8.20	75	22	2.40	ug/l #	43
54) cis-1,3-Dichloropropene	9.04	75	52	3.23	ug/l #	1
60) Dibromochloromethane	9.34	129	48	3.78	ug/l #	11
67) Ethyl Benzene	10.26	91	10498	0.91	ug/l	96
68) m/p-Xylenes	10.36	106	13582	3.05	ug/l	97
76) 1,2,3-Trichloropropane	11.14	75	80996	27.97	ug/l #	33
80) 1,3,5-Trimethylbenzene	11.51	105	2011	0.23	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.14	75	80996	86.20	ug/l #	7
84) 1,2,4-Trimethylbenzene	11.81	105	7556	0.85	ug/l	96
90) Hexachloroethane	12.68	117	48	2.66	ug/l #	1
95) Naphthalene	13.84	128	5864	0.57	ug/l	99

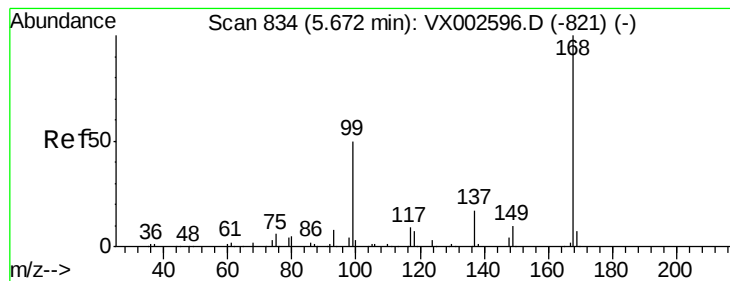
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:37:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002618.D

Acq: 16 Jun 2018 01:01

Instrument :

MSVOA_X

ClientSampleId :

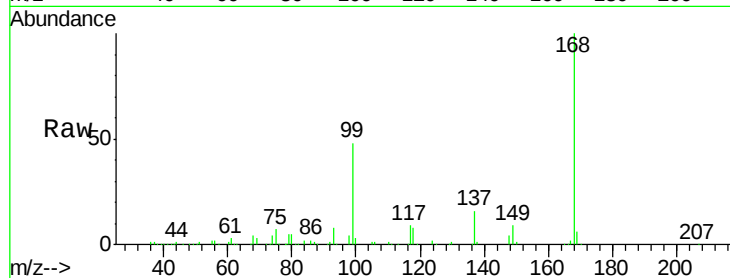
PR-MW-04-061118

Tot Ion:168 Resp: 213357

Ion Ratio Lower Upper

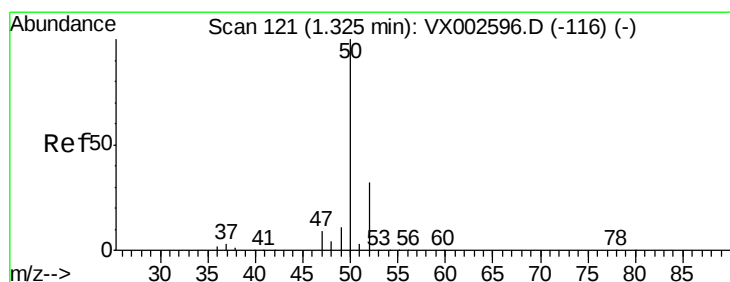
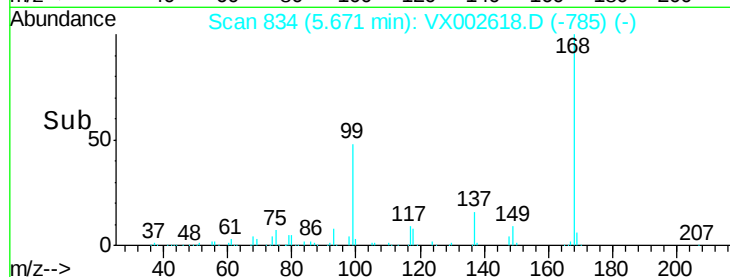
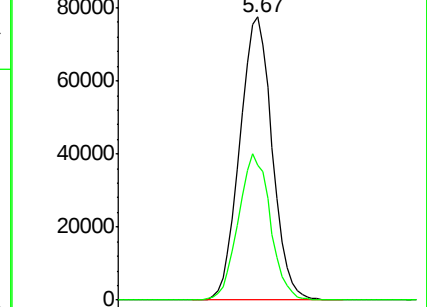
168 100

99 47.9 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.28 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX002618.D

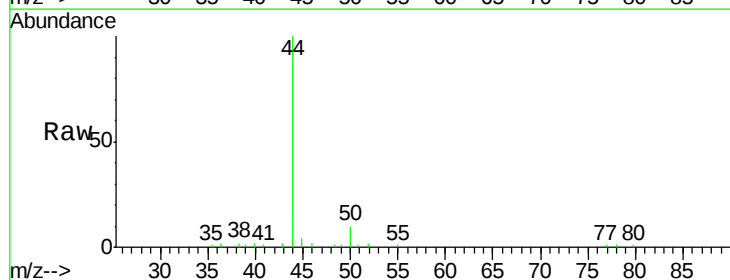
Acq: 16 Jun 2018 01:01

Tgt Ion: 50 Resp: 756

Ion Ratio Lower Upper

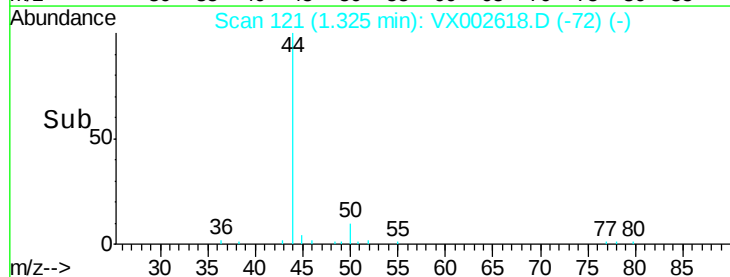
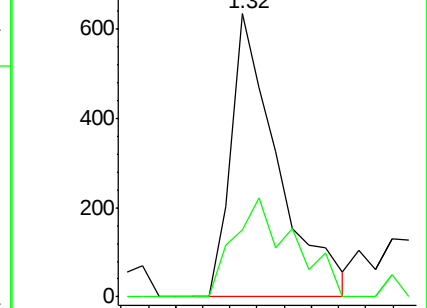
50 100

52 23.8 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.72 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX002618.D

Acq: 16 Jun 2018 01:01

Instrument :

MSVOA_X

ClientSampleId :

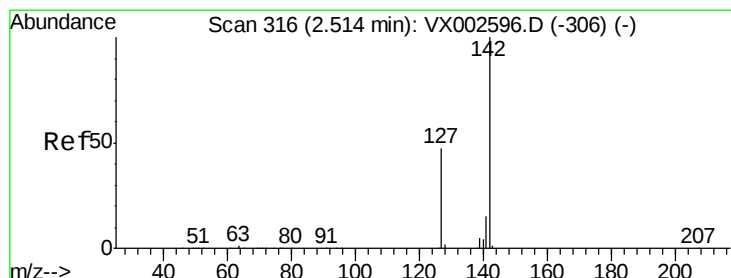
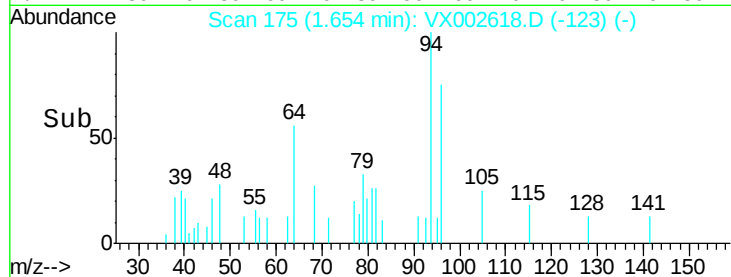
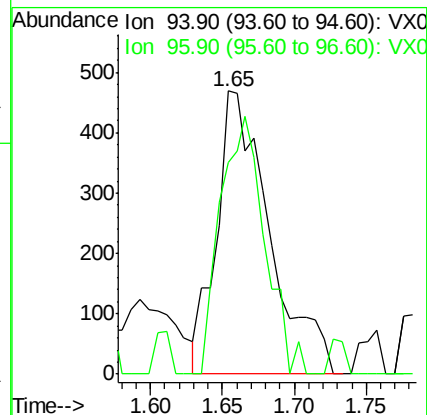
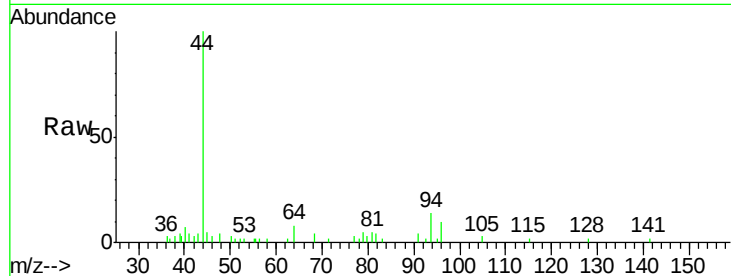
PR-MW-04-061118

Tot Ion: 94 Resp: 1209

Ion Ratio Lower Upper

94 100

96 74.6 74.9 112.3#



#10

Methyl Iodide

Concen: 5.45 ug/l

RT: 2.51 min Scan# 316

Delta R.T. 0.00 min

Lab File: VX002618.D

Acq: 16 Jun 2018 01:01

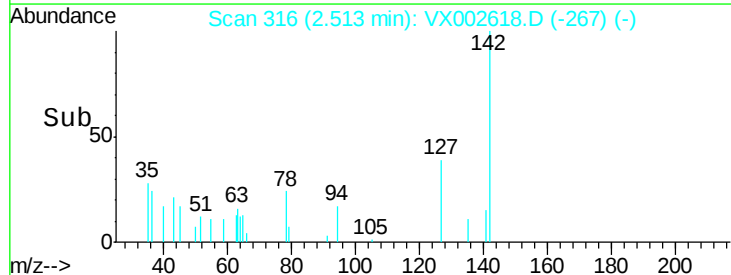
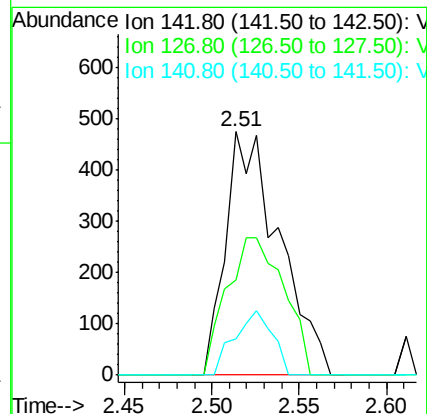
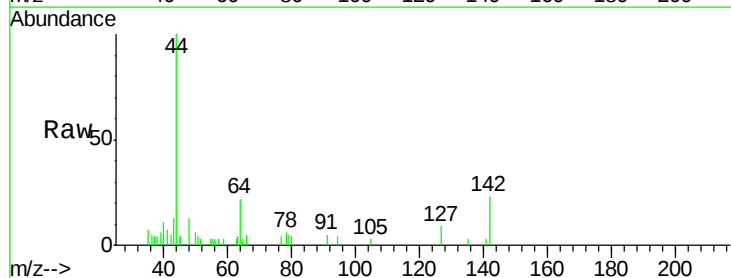
Tgt Ion:142 Resp: 1013

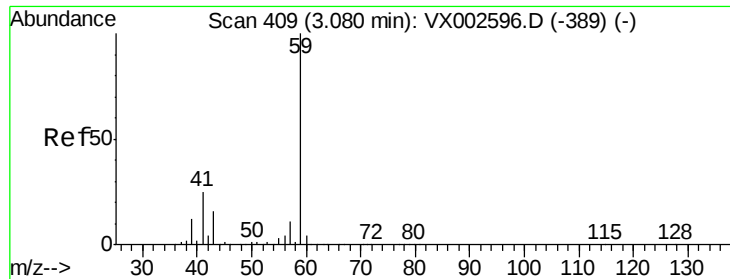
Ion Ratio Lower Upper

142 100

127 60.2 36.6 55.0#

141 18.7 11.3 16.9#

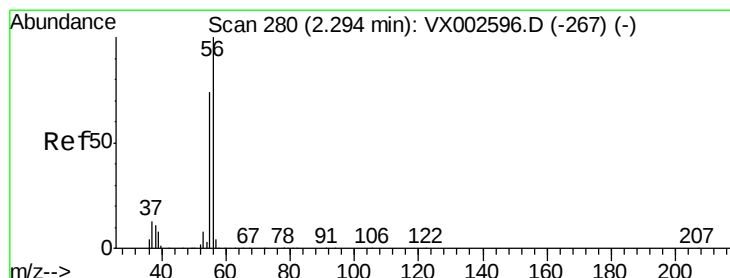
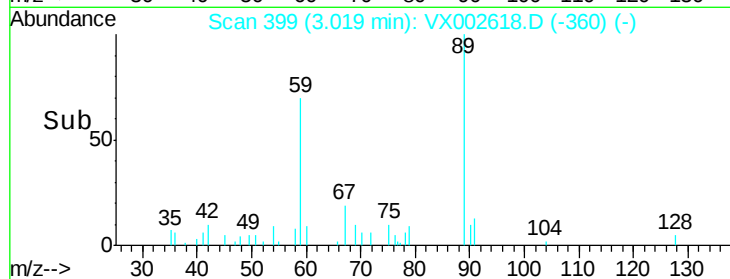
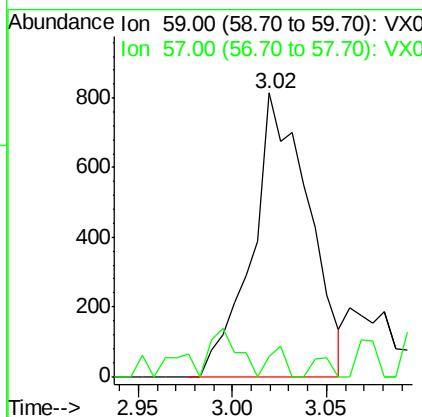
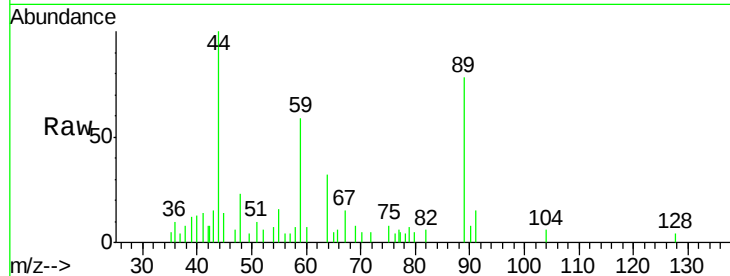




#11
Tert butyl alcohol
Concen: 2.52 ug/l
RT: 3.02 min Scan# 399
Delta R.T. -0.06 min
Lab File: VX002618.D
Acq: 16 Jun 2018 01:01

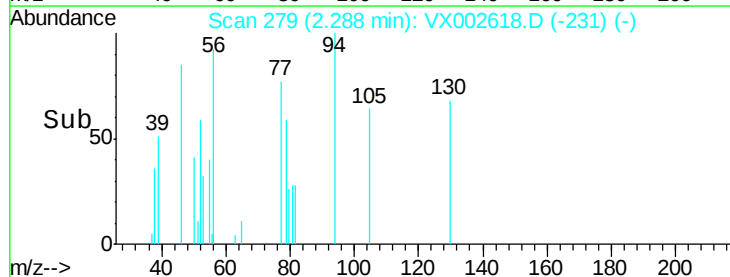
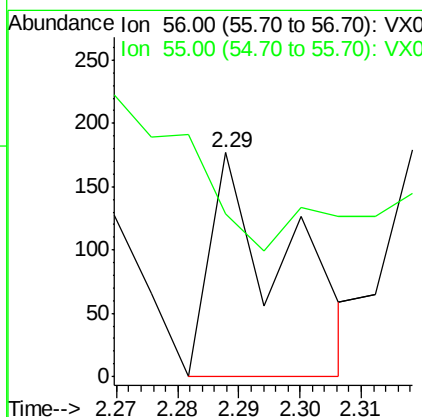
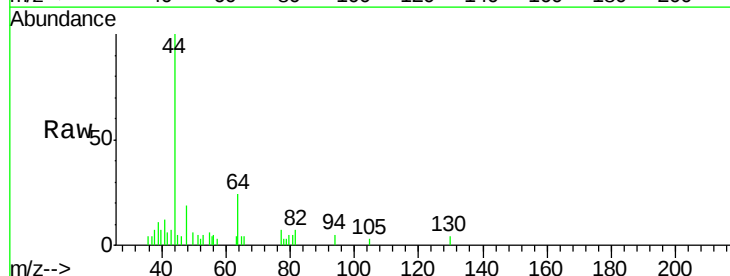
Instrument :
MSVOA_X
ClientSampleId :
PR-MW-04-061118

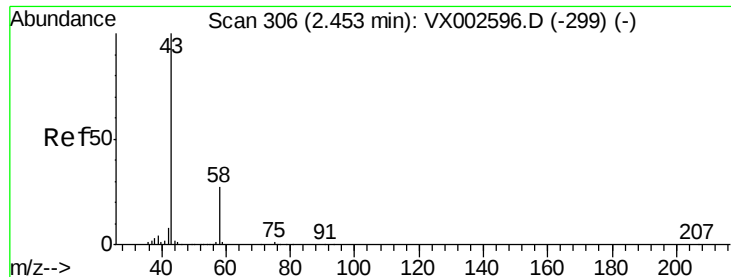
Tot Ion: 59 Resp: 1689
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#13
Acrolein
Concen: 7.34 ug/l
RT: 2.29 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX002618.D
Acq: 16 Jun 2018 01:01

Tgt Ion: 56 Resp: 153
Ion Ratio Lower Upper
56 100
55 0.0 57.0 85.4#





#16

Acetone

Concen: 4.76 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX002618.D

Acq: 16 Jun 2018 01:01

Instrument :

MSVOA_X

ClientSampleId :

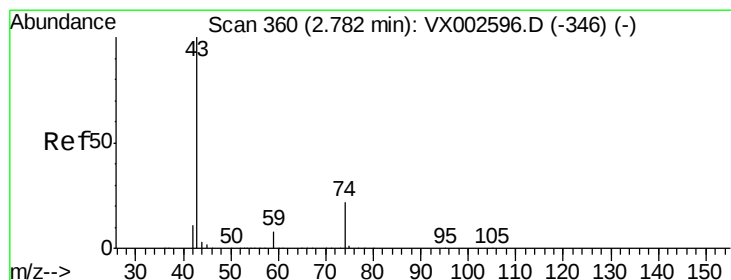
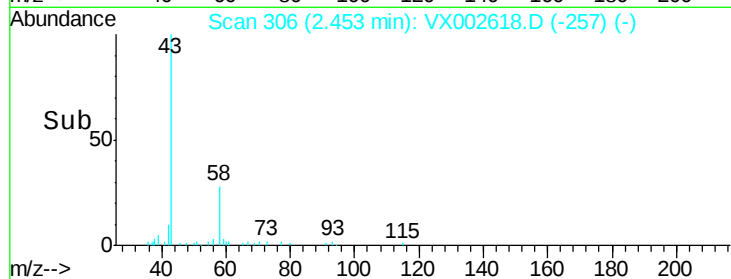
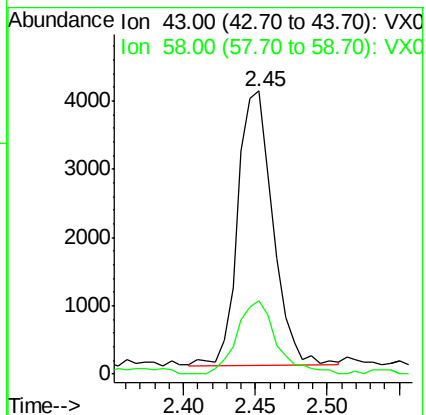
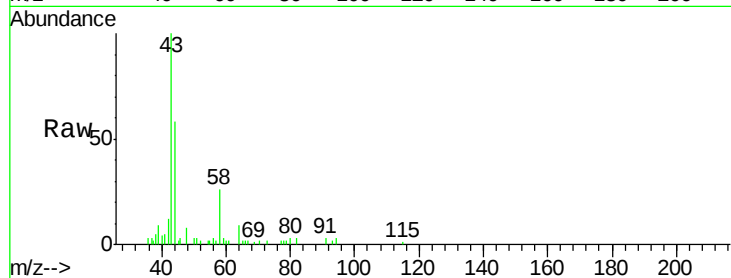
PR-MW-04-061118

Tot Ion: 43 Resp: 6812

Ion Ratio Lower Upper

43 100

58 27.0 22.1 33.1



#18

Methyl Acetate

Concen: 0.21 ug/l

RT: 2.79 min Scan# 361

Delta R.T. 0.01 min

Lab File: VX002618.D

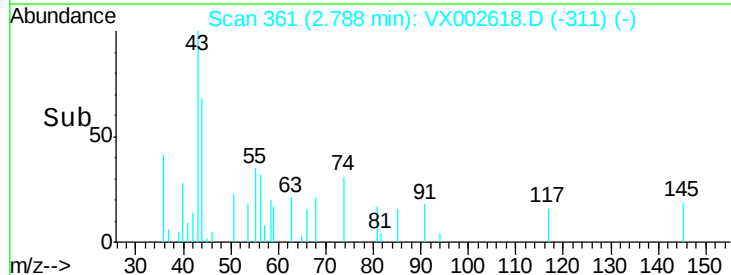
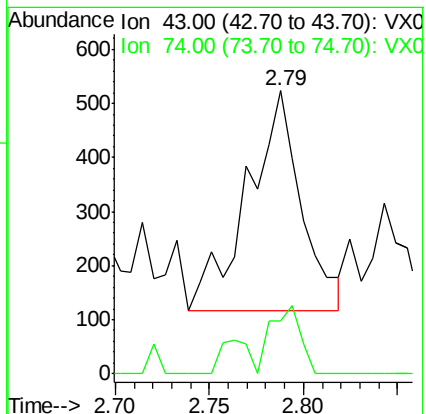
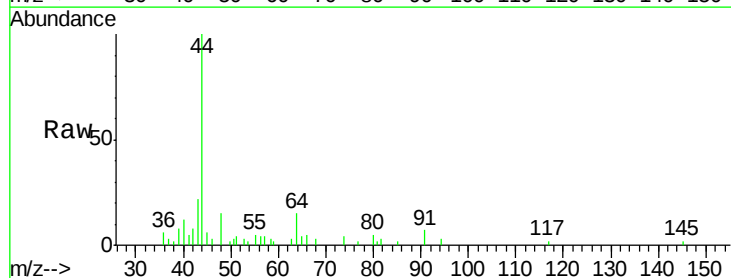
Acq: 16 Jun 2018 01:01

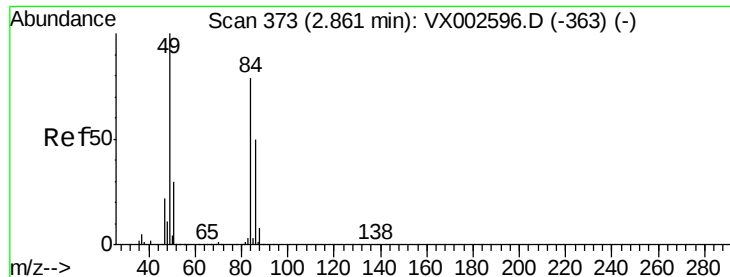
Tgt Ion: 43 Resp: 809

Ion Ratio Lower Upper

43 100

74 17.2 16.7 25.1

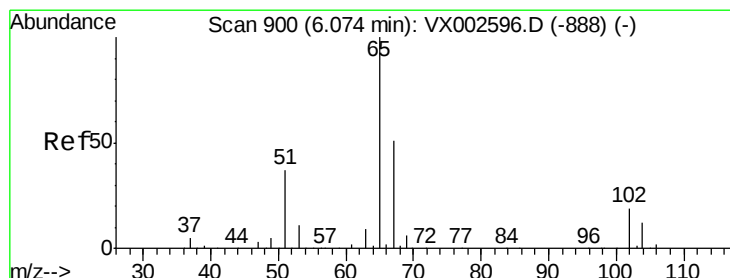
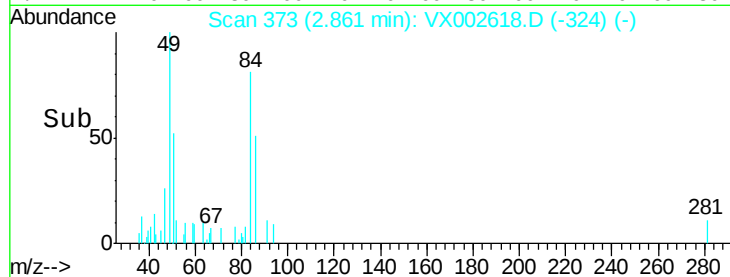
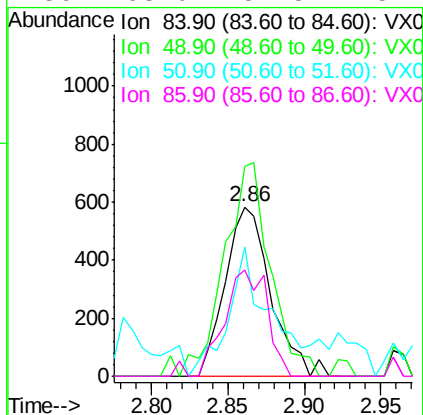
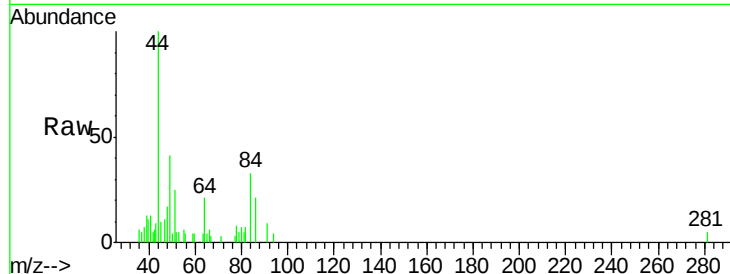




#20
Methvlene Chloride
Concen: 0.41 ug/l
RT: 2.86 min Scan# 373
Delta R.T. -0.00 min
Lab File: VX002618.D
Acq: 16 Jun 2018 01:01

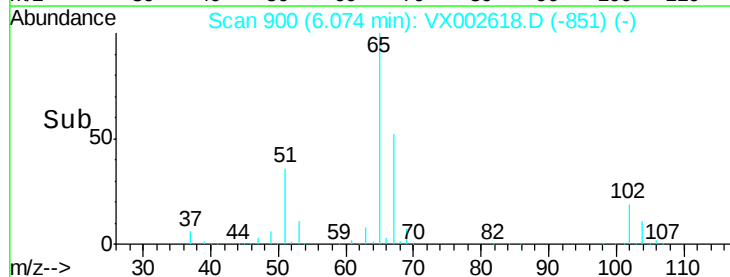
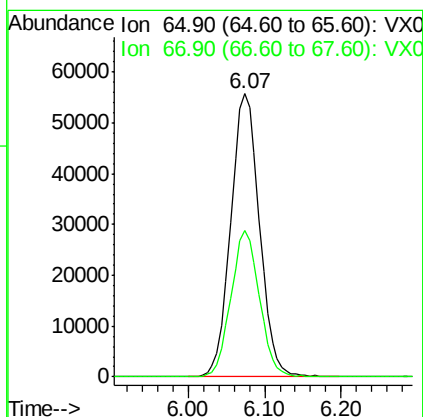
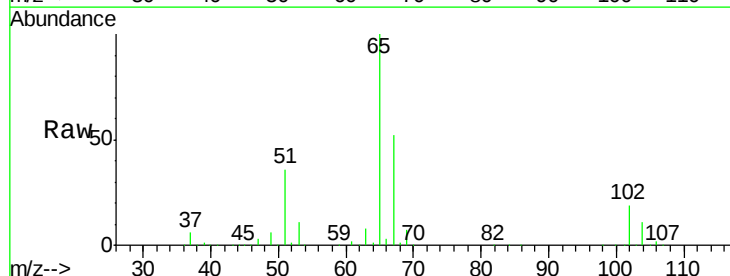
Instrument :
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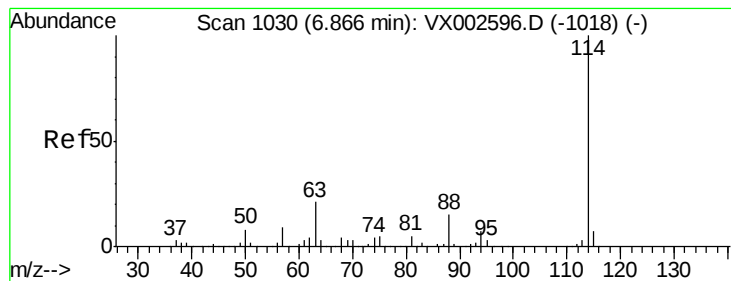
Tot Ion: 84 Resp: 1206
Ion Ratio Lower Upper
84 100
49 114.2 107.8 161.6
51 76.5 32.8 49.2#
86 63.0 52.5 78.7



#33
1,2-Dichloroethane-d4
Concen: 44.75 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.00 min
Lab File: VX002618.D
Acq: 16 Jun 2018 01:01

Tgt Ion: 65 Resp: 145082
Ion Ratio Lower Upper
65 100
67 51.1 0.0 102.6





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002618.D

Acq: 16 Jun 2018 01:01

Instrument :

MSVOA_X

ClientSampleId :

PR-MW-04-061118

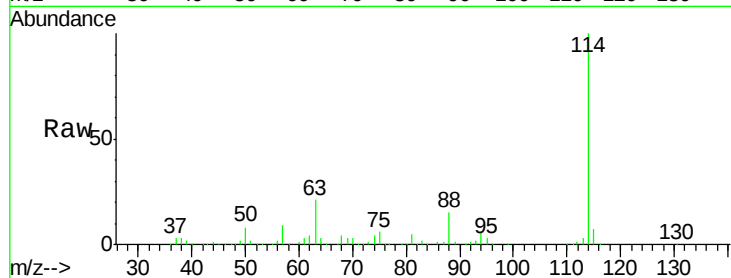
Tot Ion:114 Resp: 304828

Ion Ratio Lower Upper

114 100

63 20.5 0.0 41.4

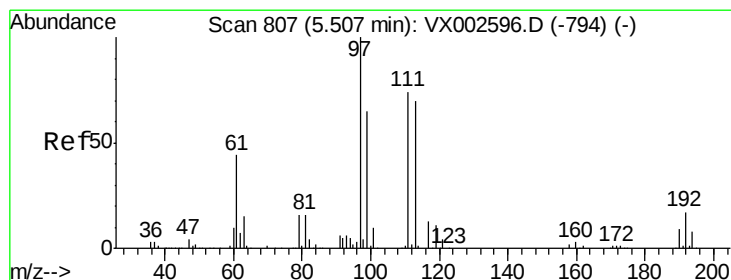
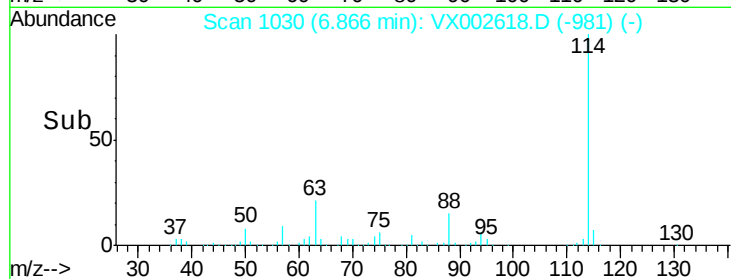
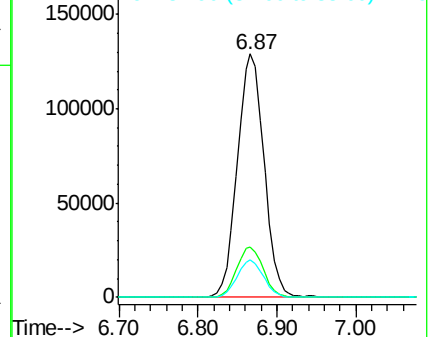
88 15.4 0.0 30.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 45.16 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002618.D

Acq: 16 Jun 2018 01:01

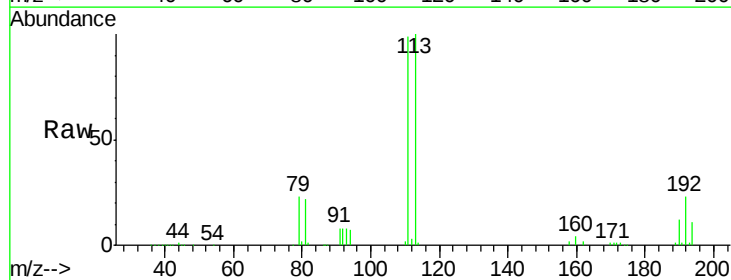
Tgt Ion:113 Resp: 109861

Ion Ratio Lower Upper

113 100

111 102.1 81.4 122.0

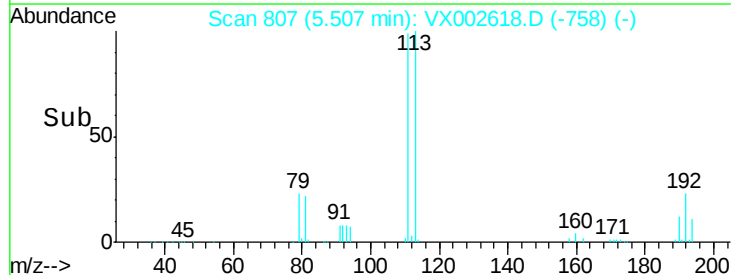
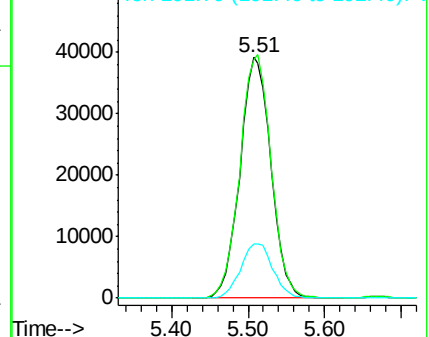
192 23.5 19.1 28.7

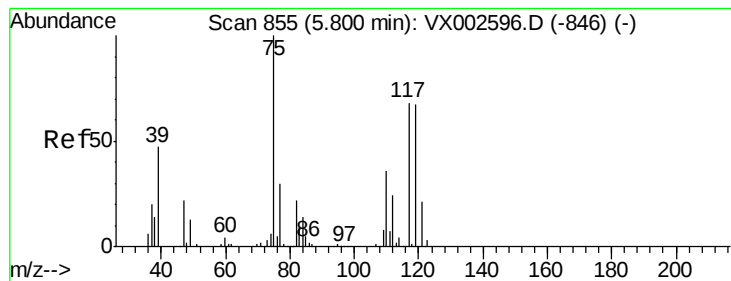


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.70 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX002618.D

Acq: 16 Jun 2018 01:01

Instrument :

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ClientSampleId :

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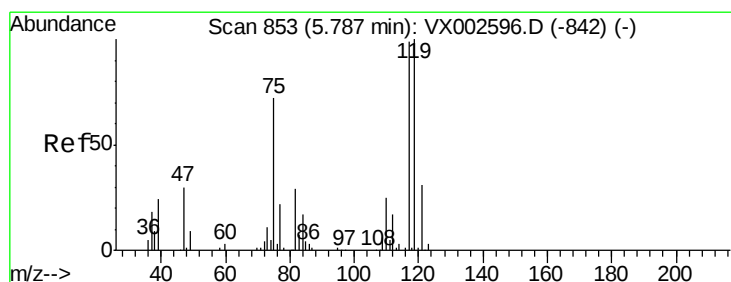
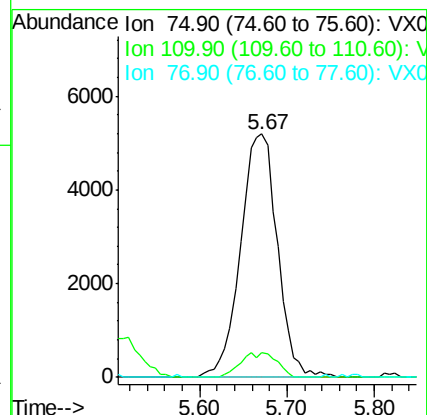
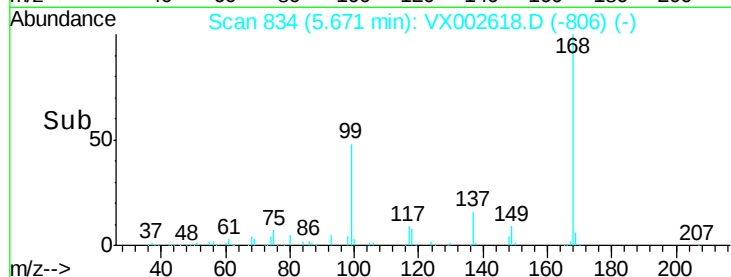
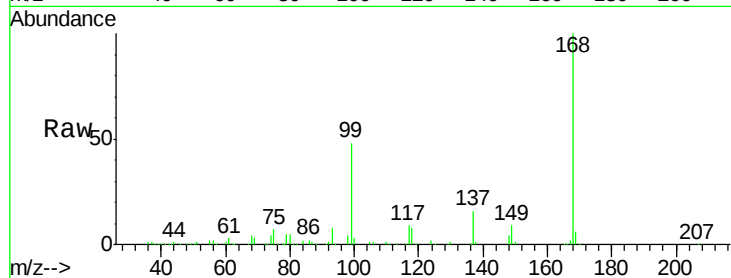
Tot Ion: 75 Resp: 15223

Ion Ratio Lower Upper

75 100

110 5.1 18.1 54.4#

77 0.0 24.3 36.5#



#38

Carbon Tetrachloride

Concen: 6.13 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX002618.D

Acq: 16 Jun 2018 01:01

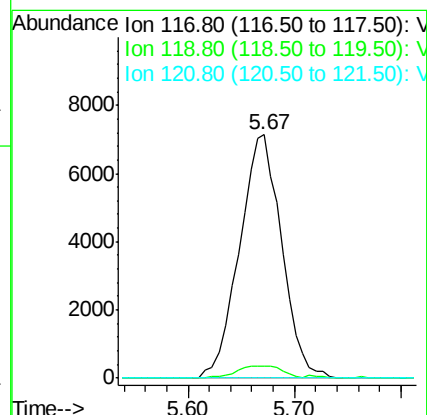
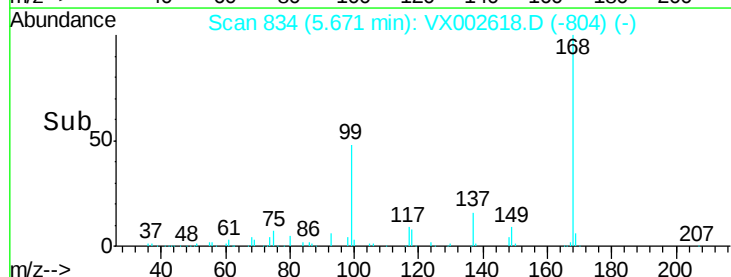
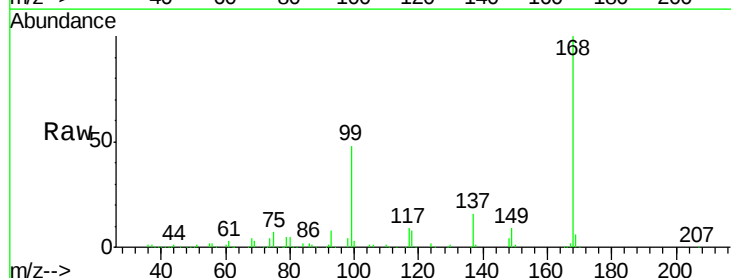
Tgt Ion: 117 Resp: 19767

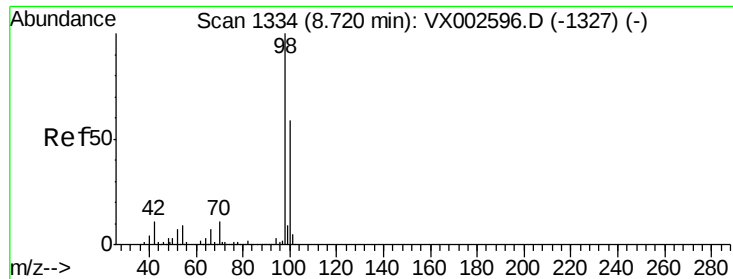
Ion Ratio Lower Upper

117 100

119 5.0 77.4 116.0#

121 0.0 24.4 36.6#





#50

Toluene-d8

Concen: 47.24 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002618.D

Acq: 16 Jun 2018 01:01

Instrument :

MSVOA_X

ClientSampleId :

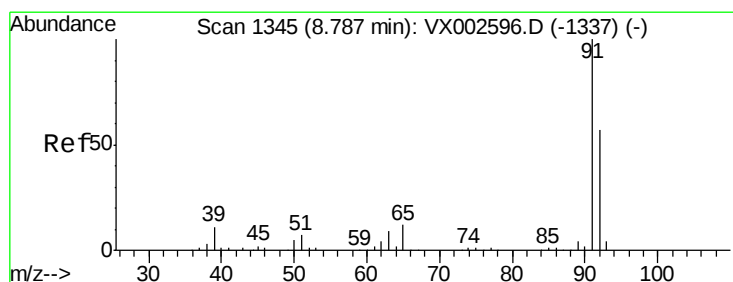
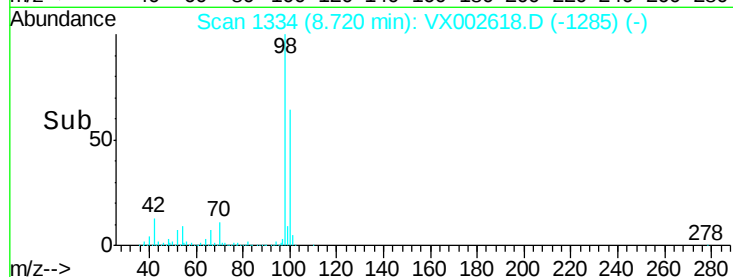
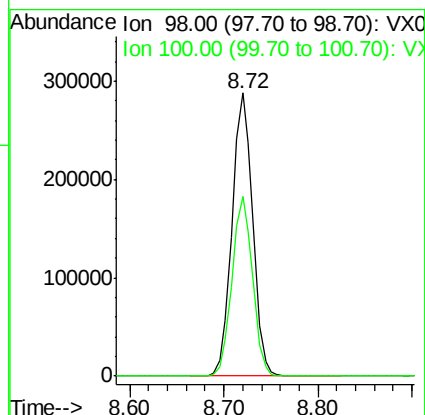
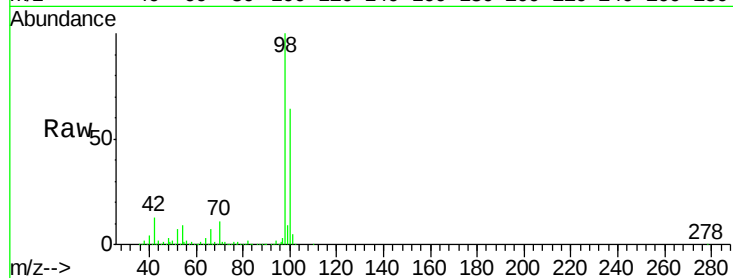
PR-MW-04-061118

Tot Ion: 98 Resp: 436418

Ion Ratio Lower Upper

98 100

100 63.1 50.9 76.3



#52

Toluene

Concen: 0.28 ug/l

RT: 8.79 min Scan# 1346

Delta R.T. 0.01 min

Lab File: VX002618.D

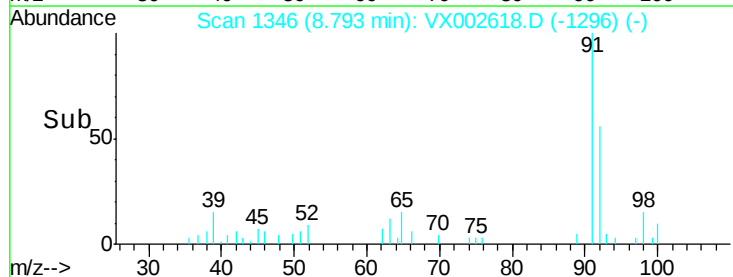
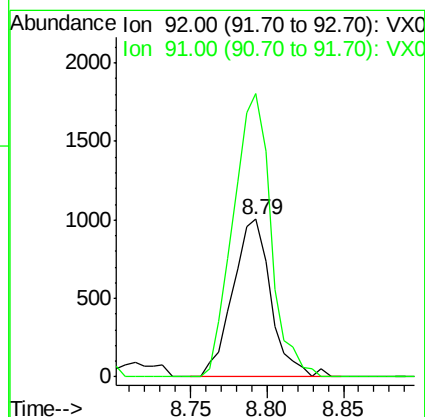
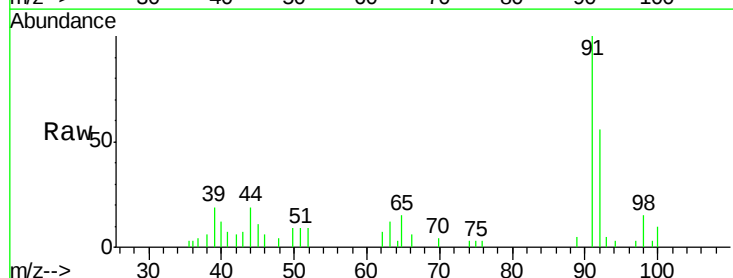
Acq: 16 Jun 2018 01:01

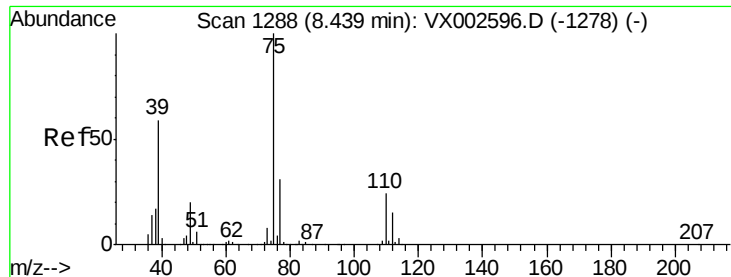
Tgt Ion: 92 Resp: 1731

Ion Ratio Lower Upper

92 100

91 177.9 140.4 210.6





#53

t-1,3-Dichloropropene

Concen: 2.40 ug/l

RT: 8.20 min Scan# 1249

Delta R.T. -0.24 min

Lab File: VX002618.D

Acq: 16 Jun 2018 01:01

Instrument :

MSVOA_X

ClientSampleId :

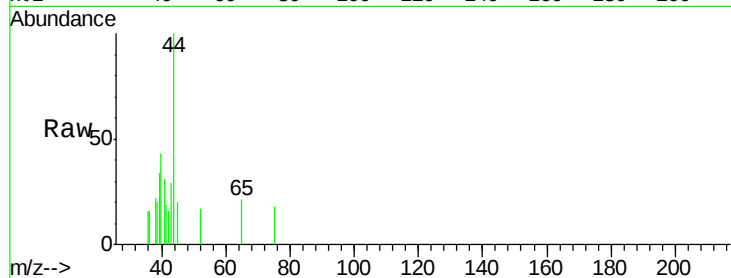
PR-MW-04-061118

Tot Ion: 75 Resp: 22

Ion Ratio Lower Upper

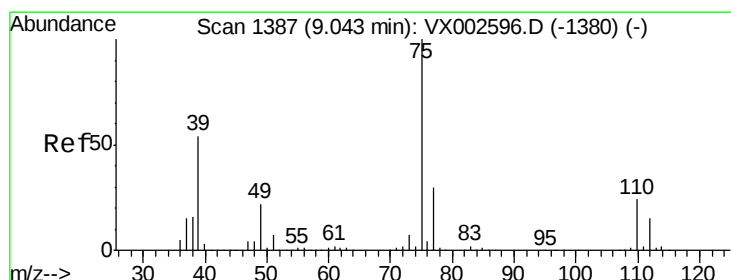
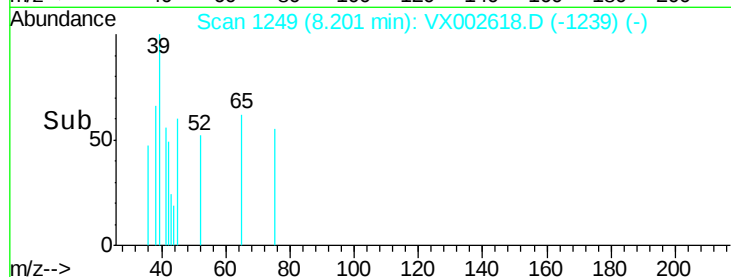
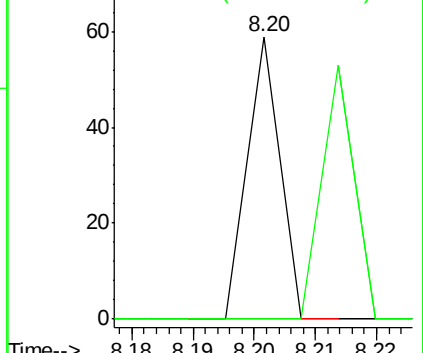
75 100

77 0.0 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#54

cis-1,3-Dichloropropene

Concen: 3.23 ug/l

RT: 9.04 min Scan# 1387

Delta R.T. 0.00 min

Lab File: VX002618.D

Acq: 16 Jun 2018 01:01

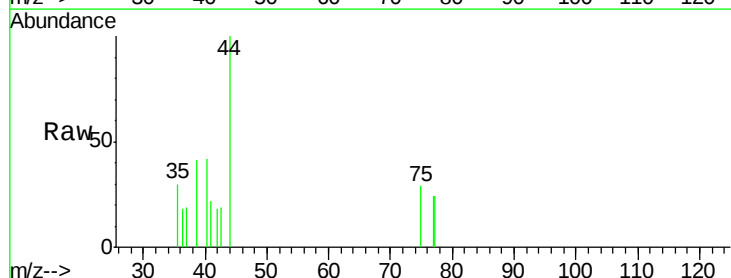
Tgt Ion: 75 Resp: 52

Ion Ratio Lower Upper

75 100

77 164.4 24.8 37.2#

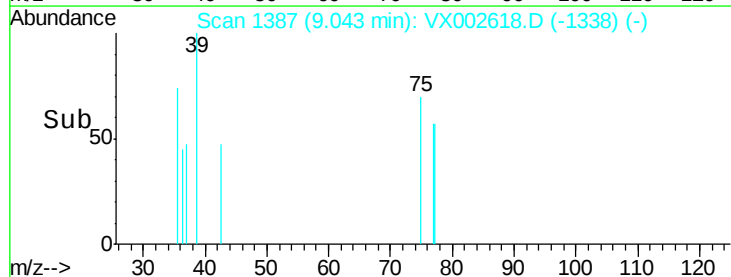
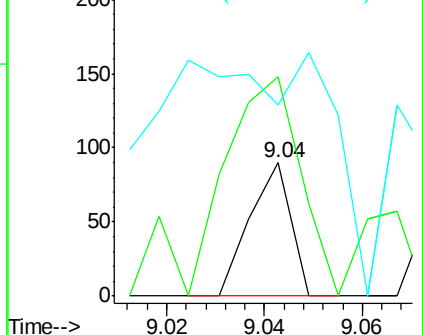
39 7.8 42.4 63.6#

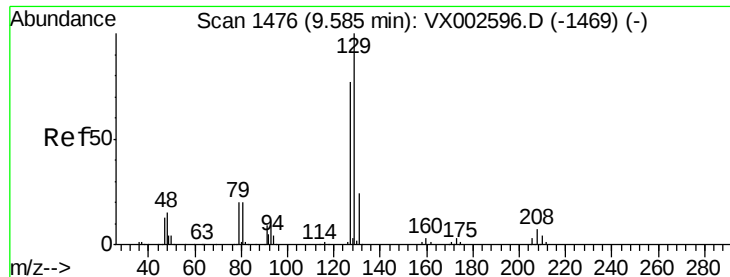


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0

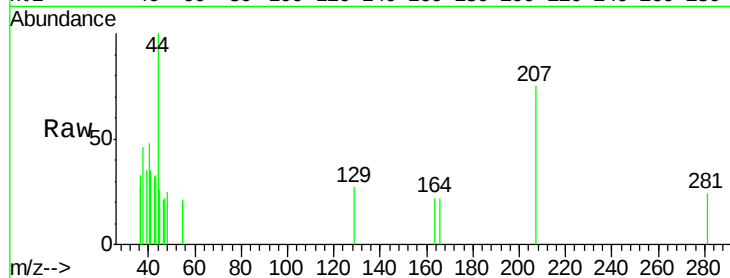




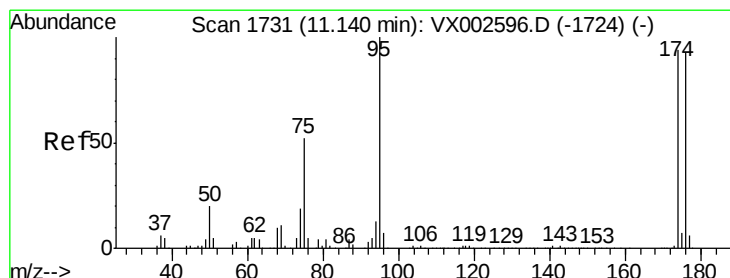
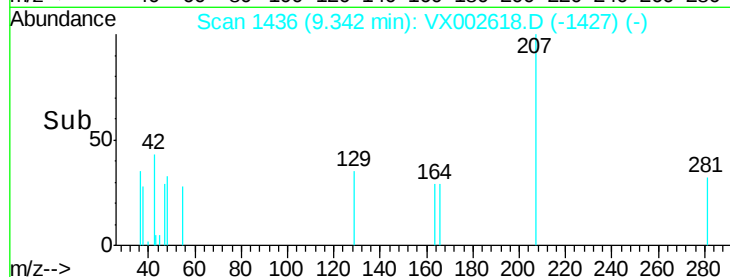
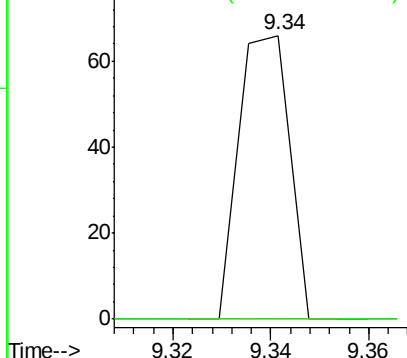
#60
Dibromochloromethane
Concen: 3.78 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. -0.24 min
Lab File: VX002618.D
Acq: 16 Jun 2018 01:01

Instrument :
MSVOA_X
ClientSampleId :
PR-MW-04-061118

Tot Ion:129 Resp: 48
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.3#

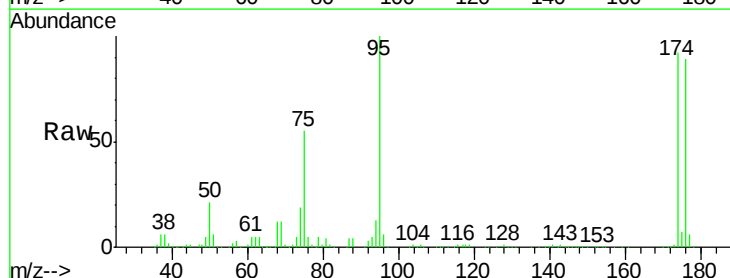


Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V

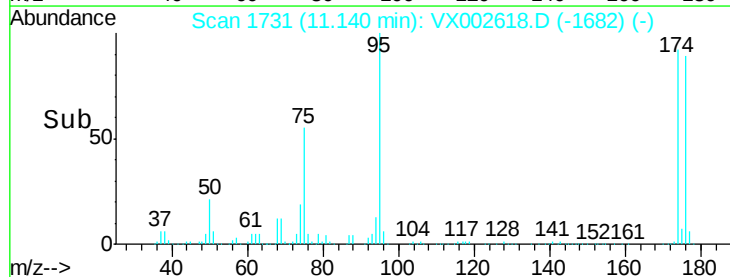
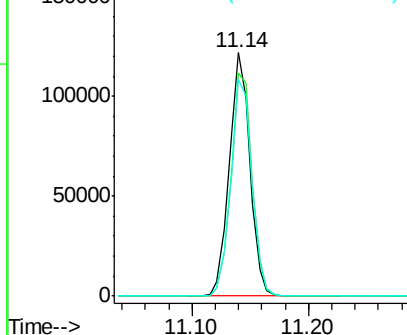


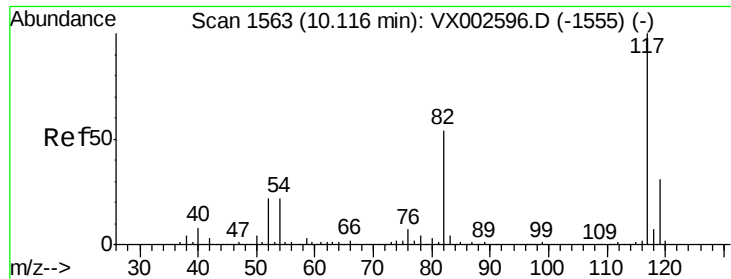
#62
4-Bromofluorobenzene
Concen: 42.77 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX002618.D
Acq: 16 Jun 2018 01:01

Tgt Ion: 95 Resp: 149716
Ion Ratio Lower Upper
95 100
174 94.5 0.0 187.4
176 91.3 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

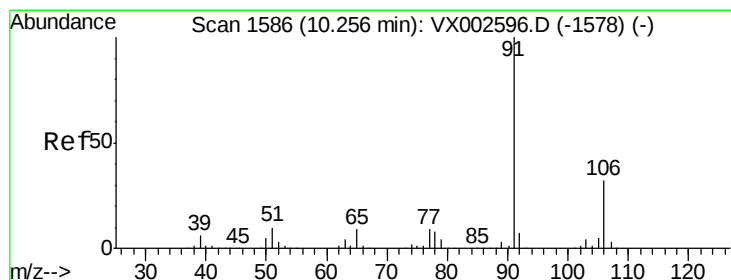
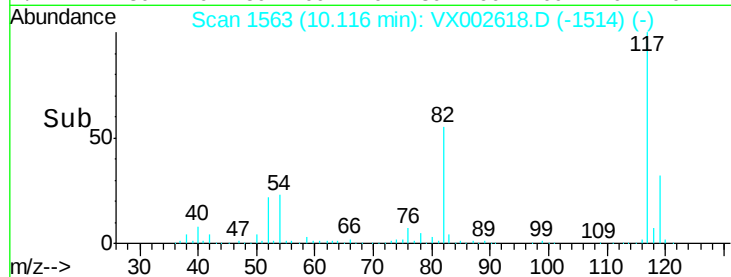
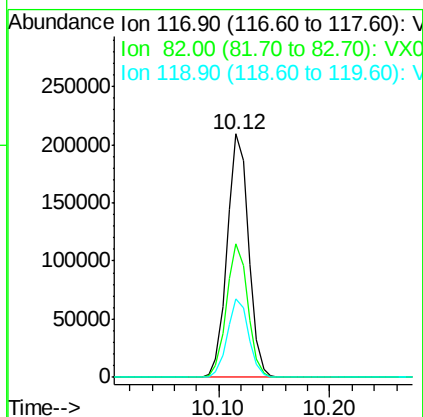
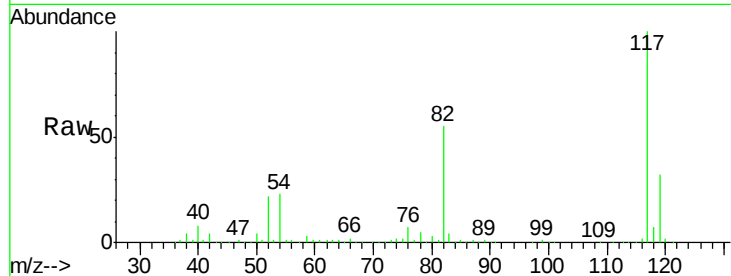




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002618.D
Acq: 16 Jun 2018 01:01

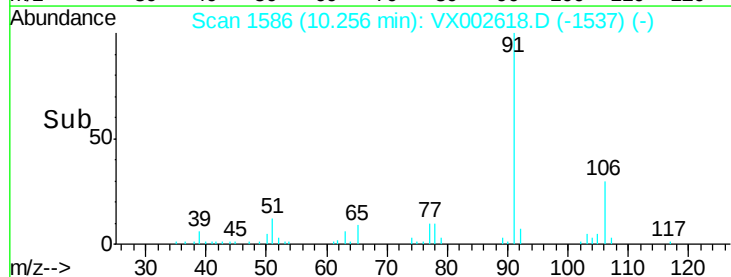
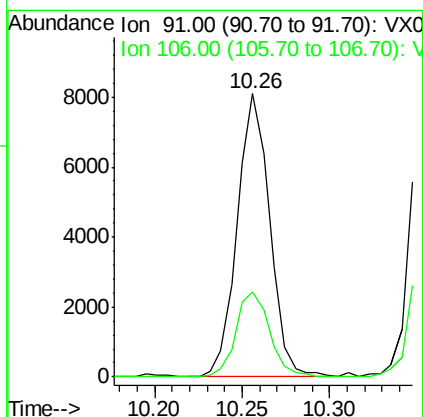
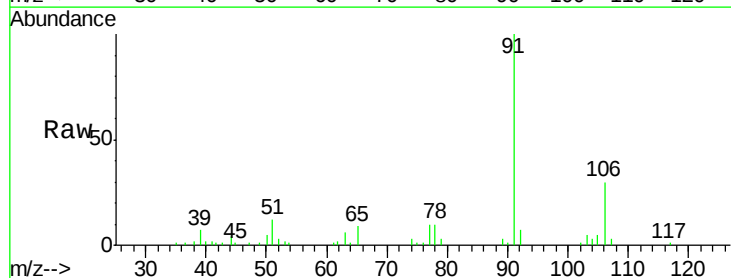
Instrument :
MSVOA_X
ClientSampleId :
PR-MW-04-061118

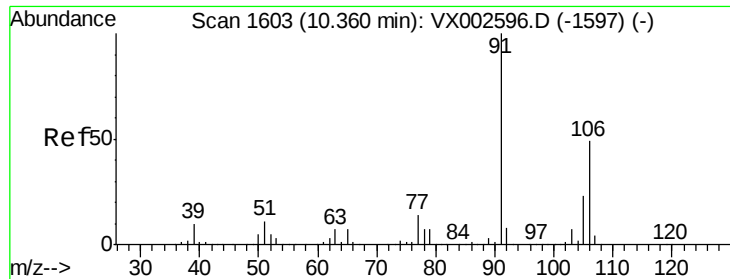
Tot Ion:117 Resp: 278577
Ion Ratio Lower Upper
117 100
82 55.0 45.0 67.4
119 32.1 25.8 38.6



#67
Ethyl Benzene
Concen: 0.91 ug/l
RT: 10.26 min Scan# 1586
Delta R.T. -0.00 min
Lab File: VX002618.D
Acq: 16 Jun 2018 01:01

Tgt Ion: 91 Resp: 10498
Ion Ratio Lower Upper
91 100
106 29.9 25.5 38.3

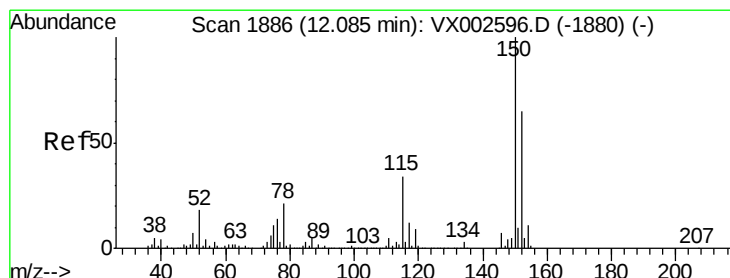
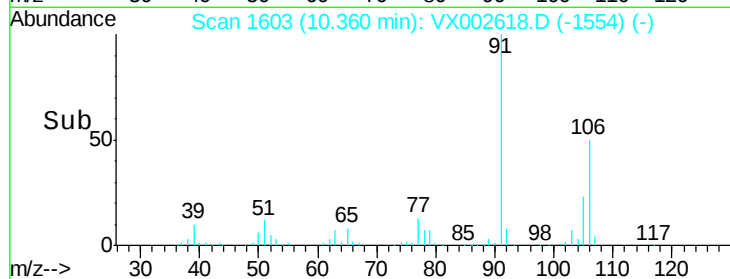
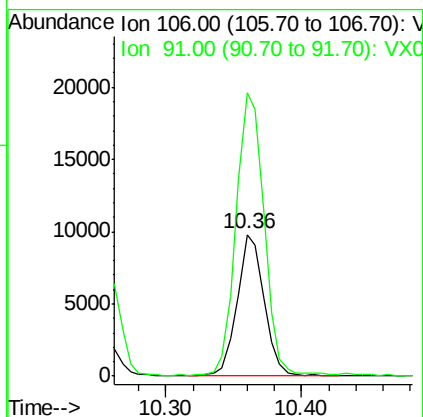
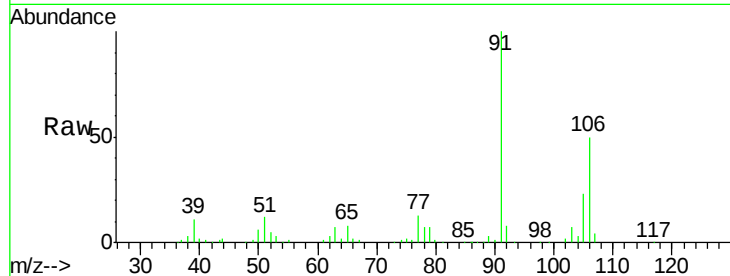




#68
m/p-Xvlenes
Concen: 3.05 ug/l
RT: 10.36 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VX002618.D
Acq: 16 Jun 2018 01:01

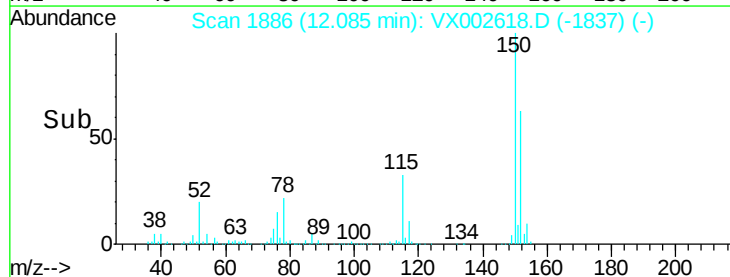
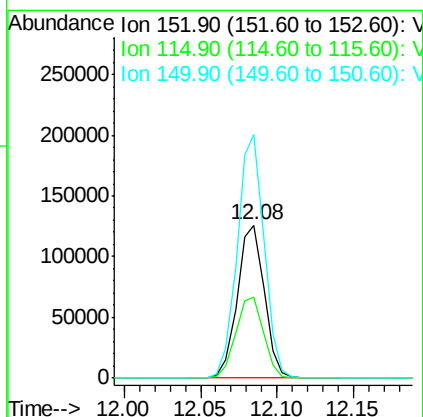
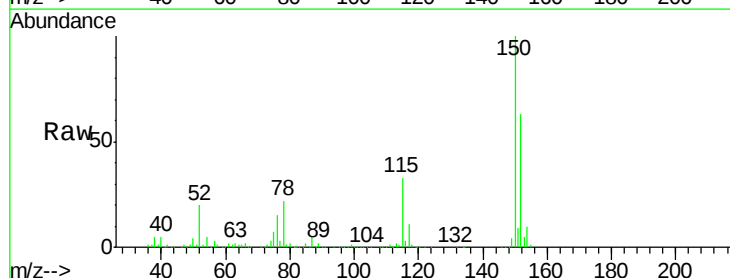
Instrument :
MSVOA_X
ClientSampleId :
PR-MW-04-061118

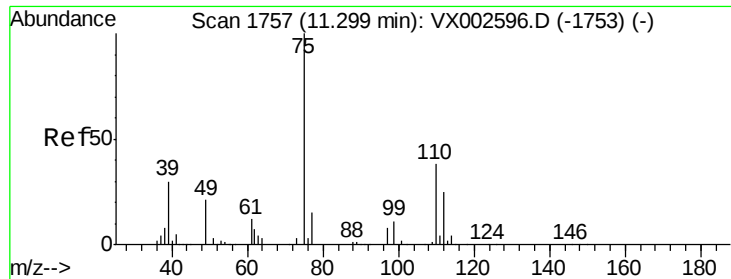
Tot Ion:106 Resp: 13582
Ion Ratio Lower Upper
106 100
91 208.4 163.4 245.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002618.D
Acq: 16 Jun 2018 01:01

Tgt Ion:152 Resp: 153449
Ion Ratio Lower Upper
152 100
115 54.3 40.1 120.2
150 158.4 0.0 347.2





#76

1,2,3-Trichloropropane

Concen: 27.97 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002618.D

Acq: 16 Jun 2018 01:01

Instrument :

MSVOA_X

ClientSampleId :

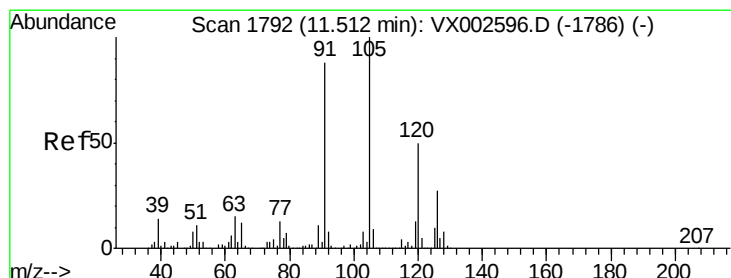
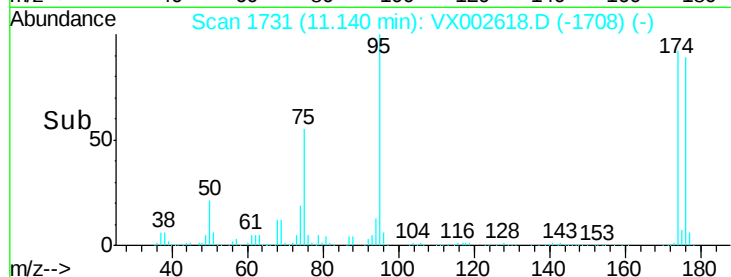
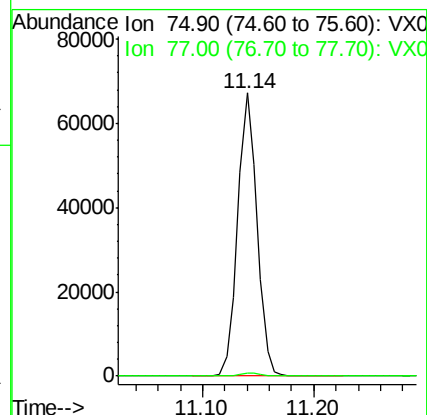
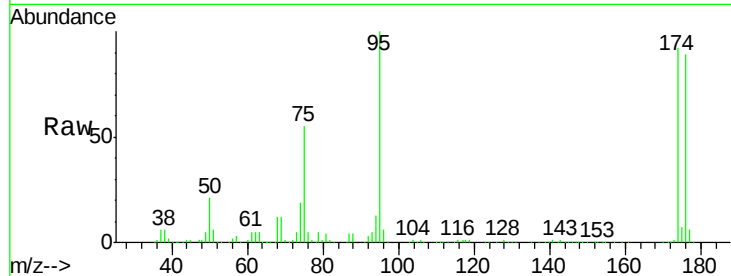
PR-MW-04-061118

Tot Ion: 75 Resp: 80996

Ion Ratio Lower Upper

75 100

77 1.1 22.8 68.3#



#80

1,3,5-Trimethylbenzene

Concen: 0.23 ug/l

RT: 11.51 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX002618.D

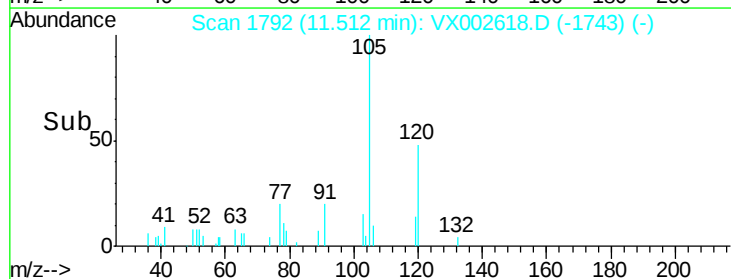
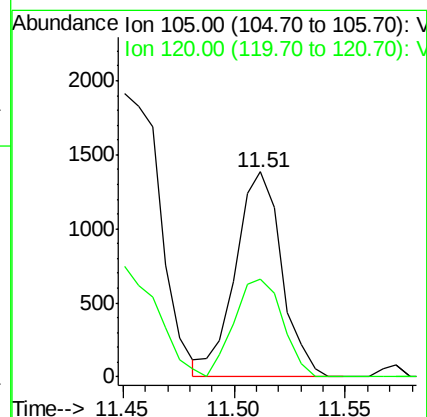
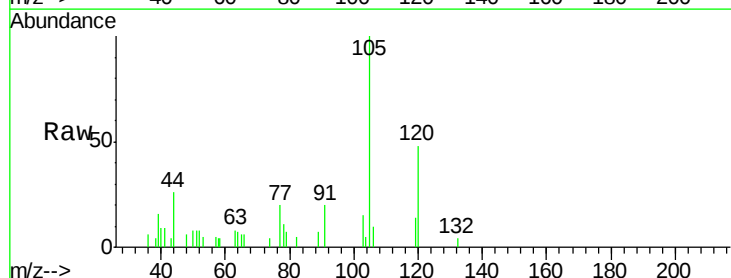
Acq: 16 Jun 2018 01:01

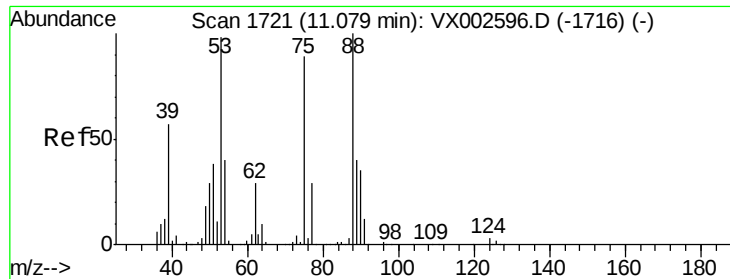
Tgt Ion: 105 Resp: 2011

Ion Ratio Lower Upper

105 100

120 49.8 24.4 73.4





#81

trans-1,4-Dichloro-2-butene

Concen: 86.20 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002618.D

Acq: 16 Jun 2018 01:01

Instrument :

MSVOA_X

ClientSampleId :

PR-MW-04-061118

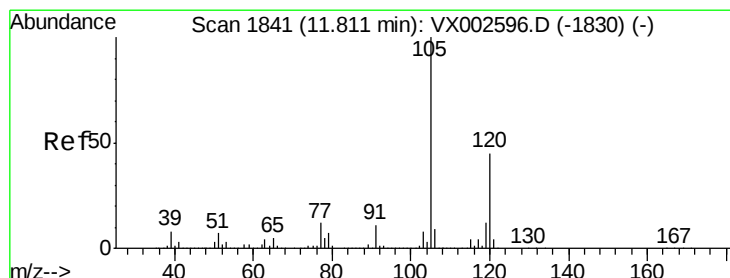
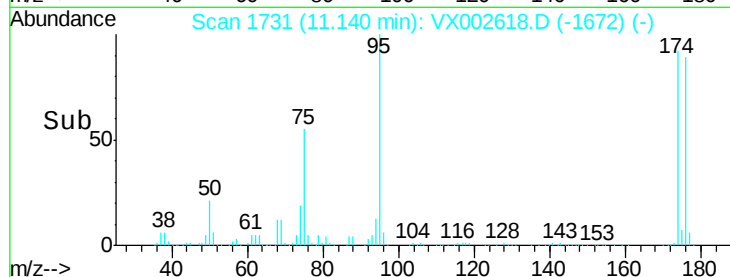
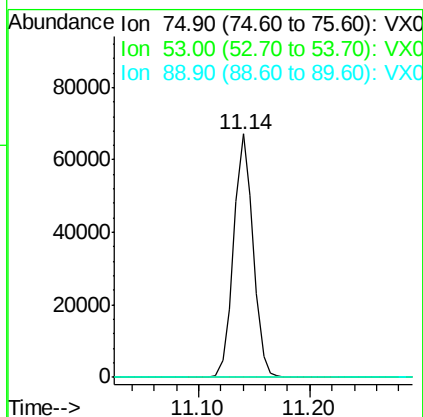
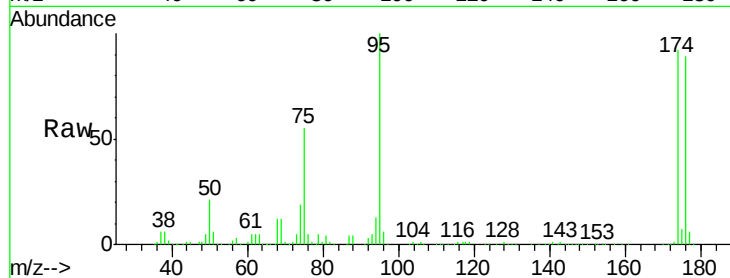
Tot Ion: 75 Resp: 80996

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#



#84

1,2,4-Trimethylbenzene

Concen: 0.85 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. -0.00 min

Lab File: VX002618.D

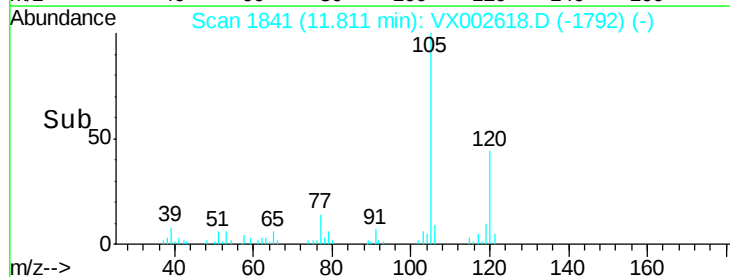
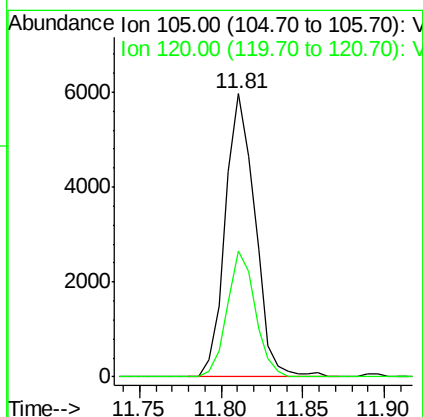
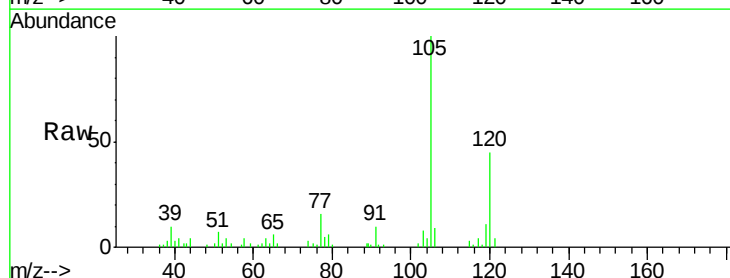
Acq: 16 Jun 2018 01:01

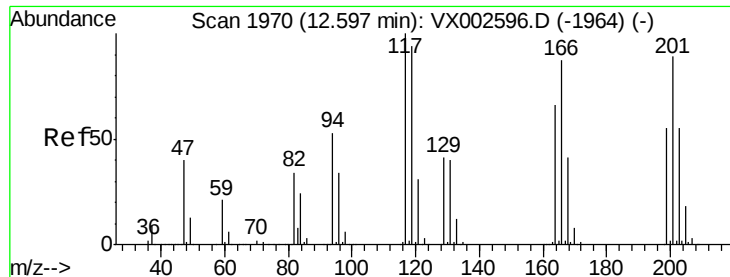
Tgt Ion: 105 Resp: 7556

Ion Ratio Lower Upper

105 100

120 41.8 22.3 66.8





#90

Hexachloroethane

Concen: 2.66 ug/l

RT: 12.68 min Scan# 1983

Delta R.T. 0.08 min

Lab File: VX002618.D

Acq: 16 Jun 2018 01:01

Instrument :

MSVOA_X

ClientSampleId :

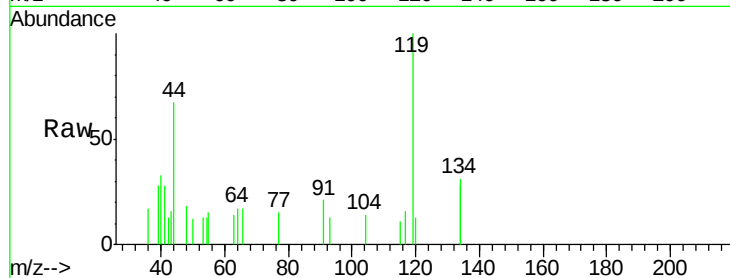
PR-MW-04-061118

Tot Ion:117 Resp: 48

Ion Ratio Lower Upper

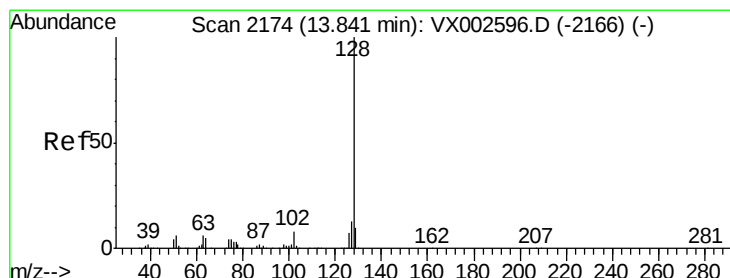
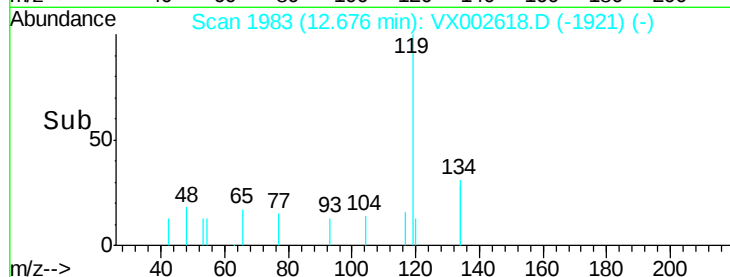
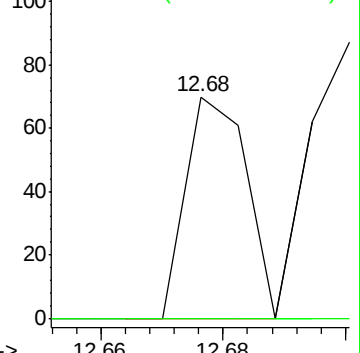
117 100

201 0.0 49.0 147.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 0.57 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. -0.00 min

Lab File: VX002618.D

Acq: 16 Jun 2018 01:01

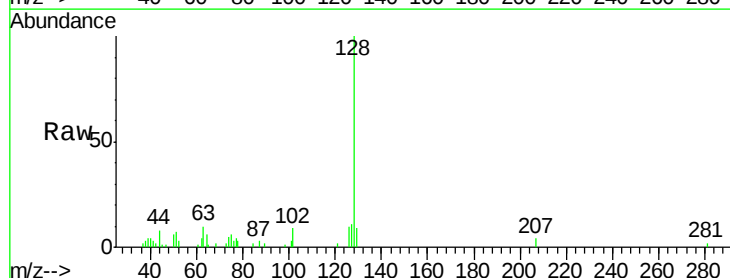
Tgt Ion:128 Resp: 5864

Ion Ratio Lower Upper

128 100

127 12.6 10.4 15.6

129 10.6 8.6 13.0



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

