

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061618\
 Data File : VX002661.D
 Acq On : 16 Jun 2018 21:38
 Operator : JC/MD
 Sample : J3485-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB-061318-03

Quant Time: Jun 18 01:40:49 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	207913	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	297481	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	279112	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	161000	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	141218	44.70	ug/l	0.00
Spiked Amount			Recovery	=	89.40%	
35) Dibromofluoromethane	5.51	113	108880	45.86	ug/l	0.00
Spiked Amount			Recovery	=	91.72%	
50) Toluene-d8	8.72	98	425578	47.21	ug/l	0.00
Spiked Amount			Recovery	=	94.42%	
62) 4-Bromofluorobenzene	11.14	95	150511	44.06	ug/l	0.00
Spiked Amount			Recovery	=	88.12%	

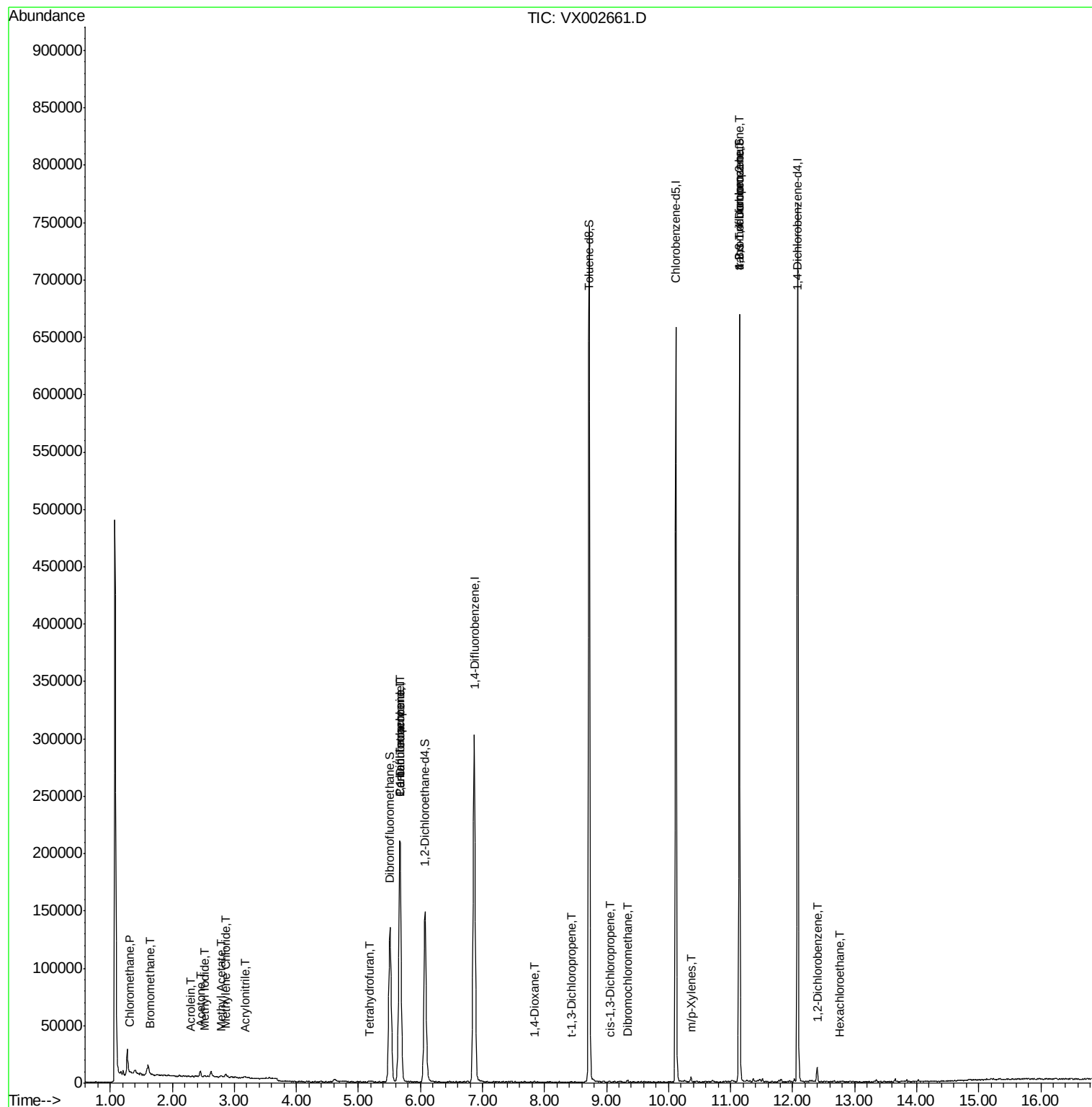
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	801	0.305	ug/l	97
5) Bromomethane	1.65	94	1454	0.884	ug/l #	80
10) Methyl Iodide	2.53	142	1451	5.571	ug/l #	96
13) Acrolein	2.30	56	138	7.302	ug/l	84
15) Acrylonitrile	3.16	53	361	0.253	ug/l #	51
16) Acetone	2.45	43	4985	3.576	ug/l	97
18) Methyl Acetate	2.79	43	1474	0.397	ug/l	93
20) Methylene Chloride	2.86	84	1075	0.376	ug/l #	90
29) Tetrahydrofuran	5.18	42	643	0.536	ug/l #	63
36) 1,1-Dichloropropene	5.67	75	14285	4.521	ug/l #	51
38) Carbon Tetrachloride	5.67	117	19193	6.101	ug/l #	15
49) 1,4-Dioxane	7.84	88	22	0.384	ug/l #	1
53) t-1,3-Dichloropropene	8.44	75	86	2.415	ug/l #	43
54) cis-1,3-Dichloropropene	9.05	75	137	3.247	ug/l #	35
60) Dibromochloromethane	9.35	129	208	3.831	ug/l #	11
68) m/p-Xylenes	10.36	106	921	0.207	ug/l	98
76) 1,2,3-Trichloropropane	11.14	75	81258	26.747	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	81258	82.606	ug/l #	7
90) Hexachloroethane	12.76	117	139	2.710	ug/l #	1
91) 1,2-Dichlorobenzene	12.40	146	3528	0.637	ug/l	99

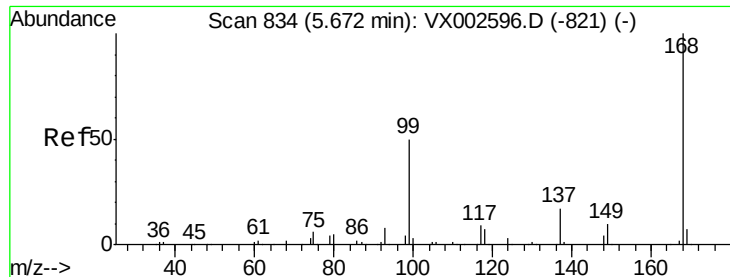
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Jun 16 01:37:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.01 min

Lab File: VX002661.D

Acq: 16 Jun 2018 21:38

Instrument :

MSVOA_X

ClientSampleId :

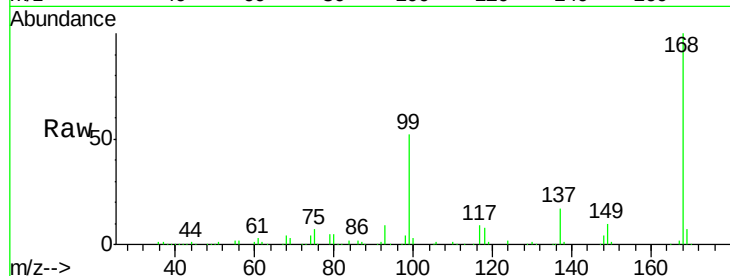
TB-061318-03

Tot Ion:168 Resp: 207913

Ion Ratio Lower Upper

168 100

99 51.8 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

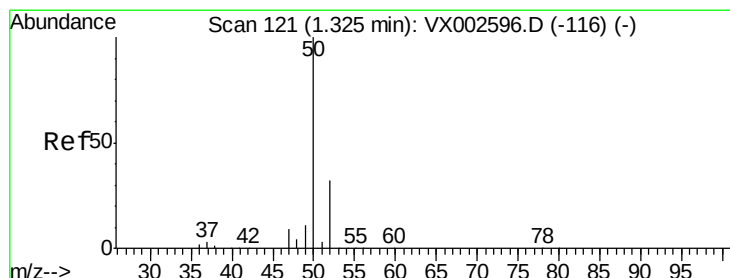
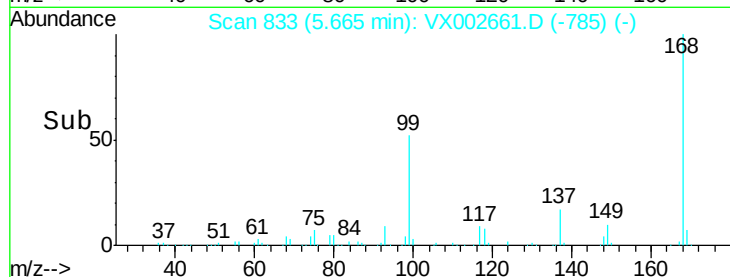
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.305 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002661.D

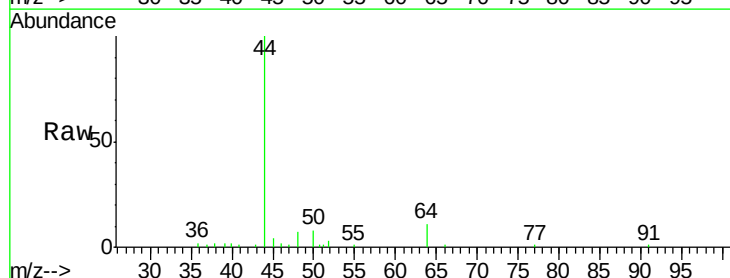
Acq: 16 Jun 2018 21:38

Tgt Ion: 50 Resp: 801

Ion Ratio Lower Upper

50 100

52 33.5 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

600

500

400

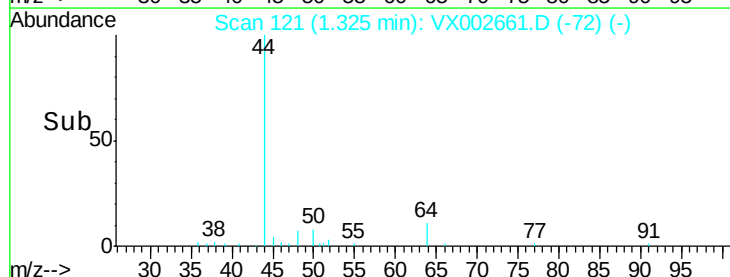
300

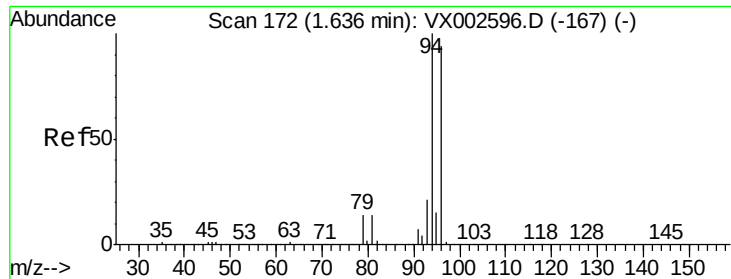
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 0.884 ug/l

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002661.D

Acq: 16 Jun 2018 21:38

Instrument :

MSVOA_X

ClientSampleId :

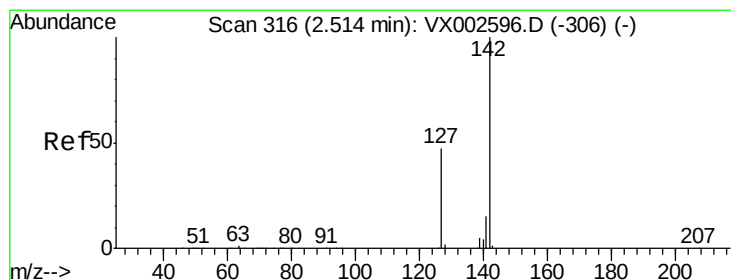
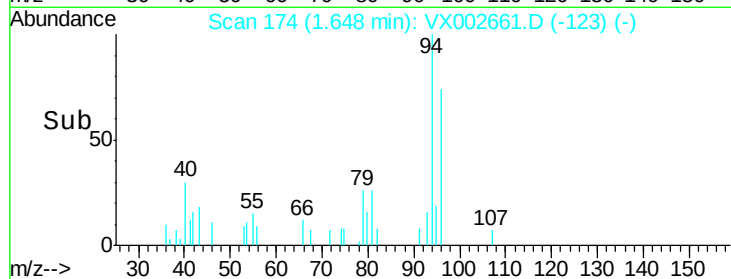
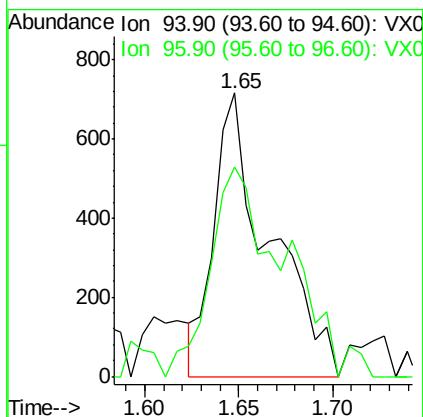
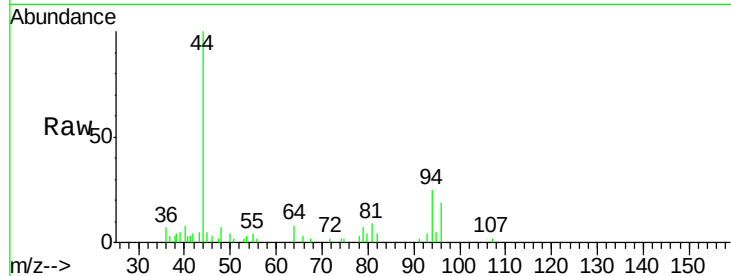
TB-061318-03

Tot Ion: 94 Resp: 1454

Ion Ratio Lower Upper

94 100

96 74.0 74.9 112.3#



#10

Methyl Iodide

Concen: 5.571 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX002661.D

Acq: 16 Jun 2018 21:38

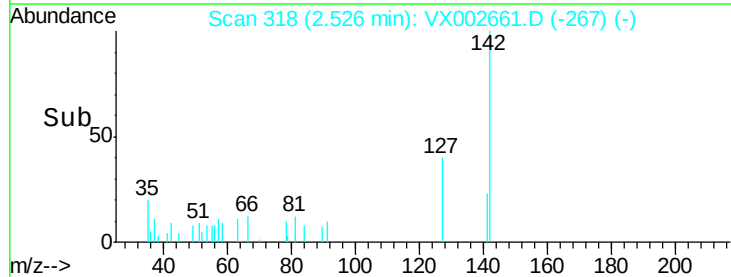
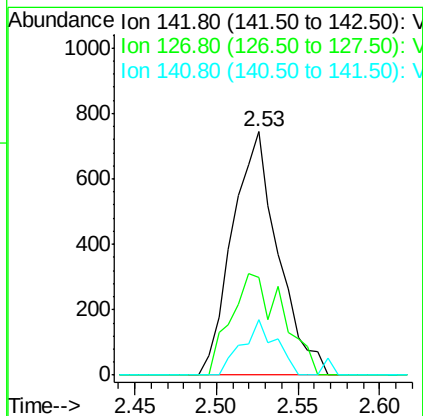
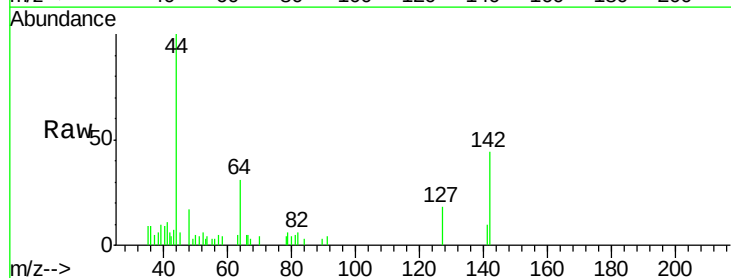
Tgt Ion: 142 Resp: 1451

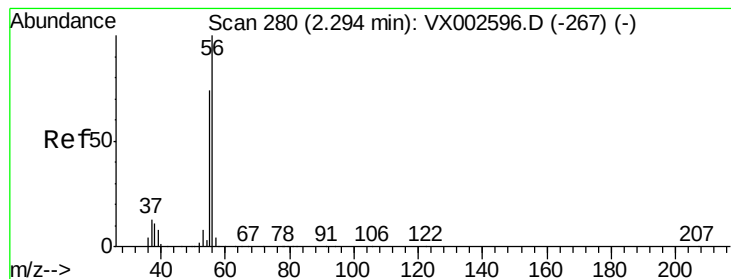
Ion Ratio Lower Upper

142 100

127 47.6 36.6 55.0

141 17.0 11.3 16.9#





#13

Acrolein

Concen: 7.302 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX002661.D

Acq: 16 Jun 2018 21:38

Instrument :

MSVOA_X

ClientSampleId :

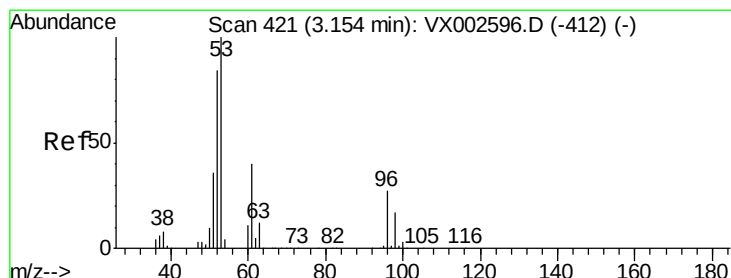
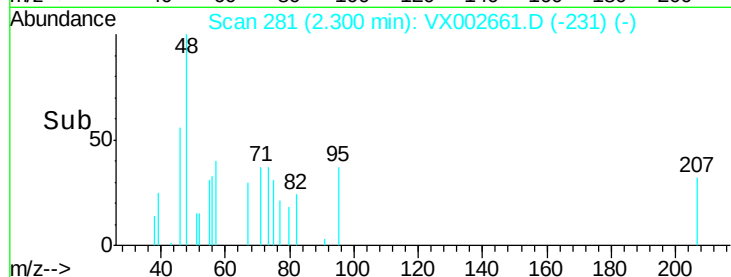
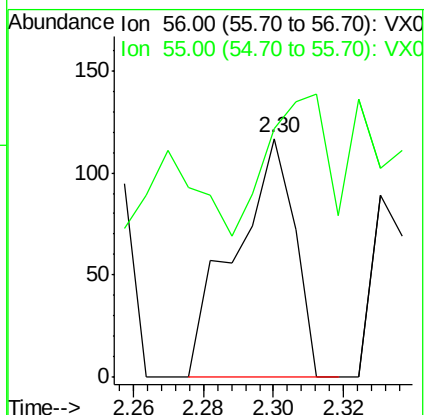
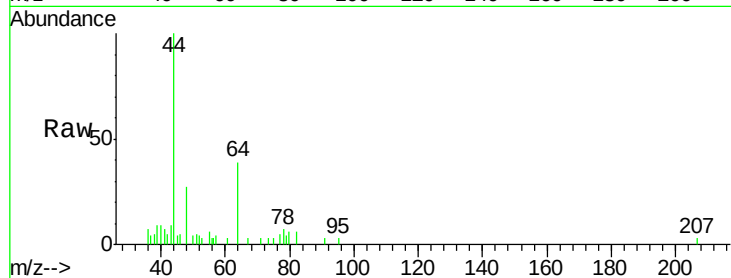
TB-061318-03

Tot Ion: 56 Resp: 138

Ion Ratio Lower Upper

56 100

55 58.0 57.0 85.4



#15

Acrylonitrile

Concen: 0.253 ug/l

RT: 3.16 min Scan# 422

Delta R.T. 0.01 min

Lab File: VX002661.D

Acq: 16 Jun 2018 21:38

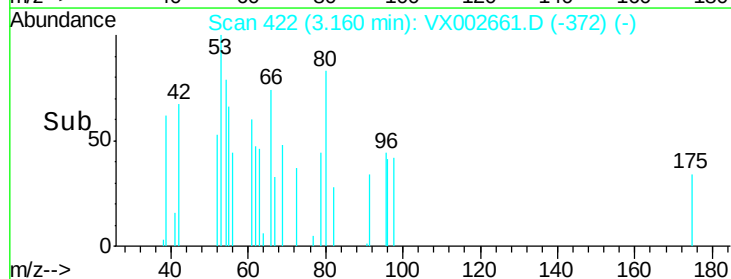
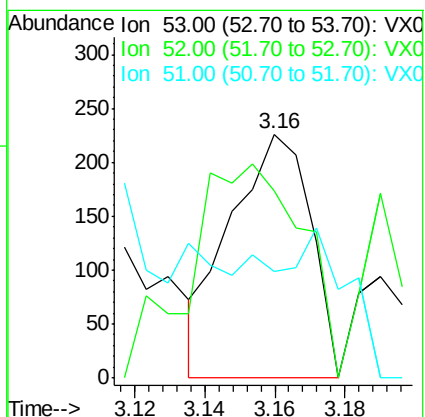
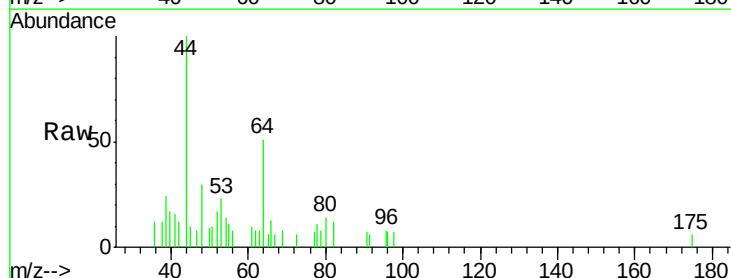
Tgt Ion: 53 Resp: 361

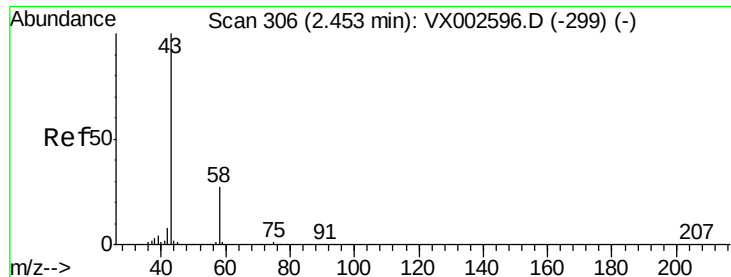
Ion Ratio Lower Upper

53 100

52 122.7 66.7 100.1#

51 0.0 29.9 44.9#





#16

Acetone

Concen: 3.576 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002661.D

Acq: 16 Jun 2018 21:38

Instrument :

MSVOA_X

ClientSampleId :

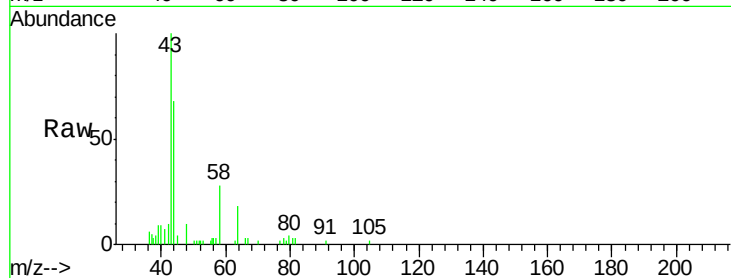
TB-061318-03

Tot Ion: 43 Resp: 4985

Ion Ratio Lower Upper

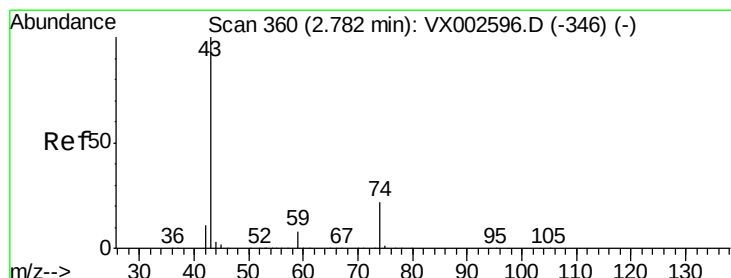
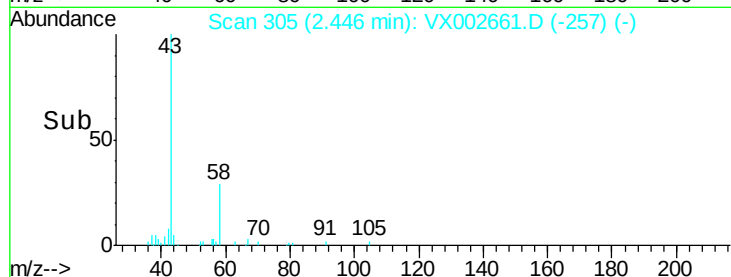
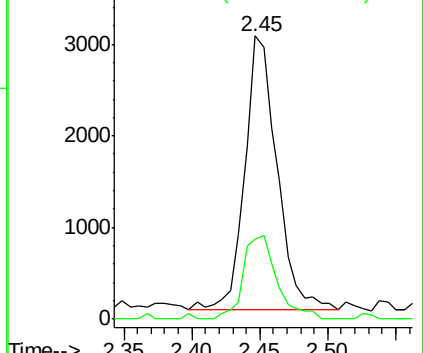
43 100

58 29.1 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.397 ug/l

RT: 2.79 min Scan# 361

Delta R.T. 0.01 min

Lab File: VX002661.D

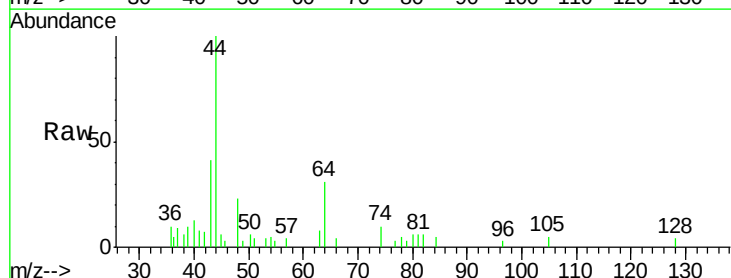
Acq: 16 Jun 2018 21:38

Tgt Ion: 43 Resp: 1474

Ion Ratio Lower Upper

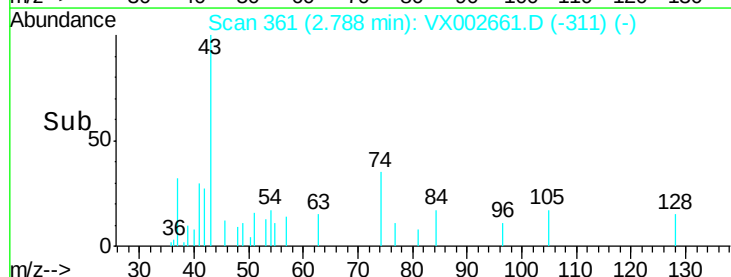
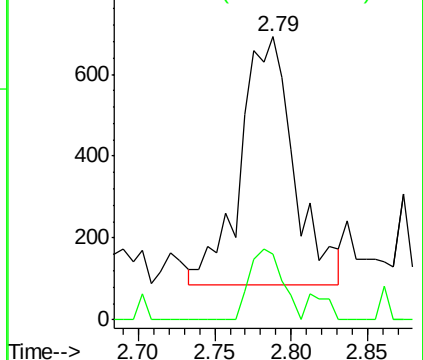
43 100

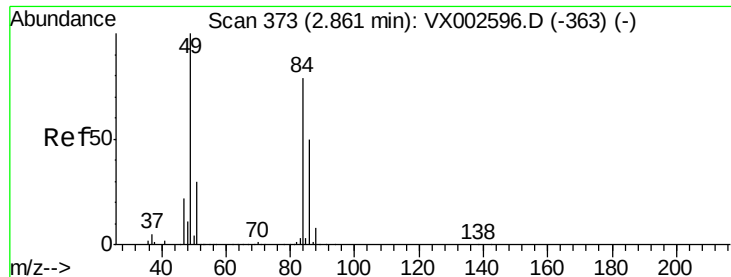
74 17.5 16.7 25.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

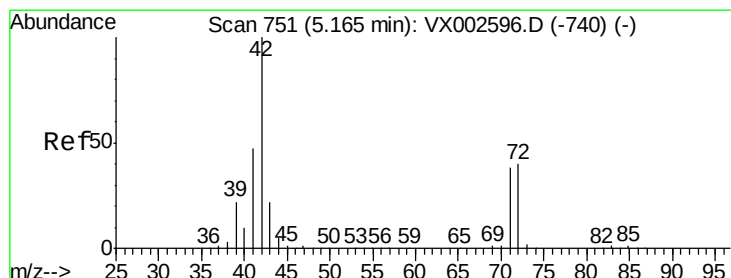
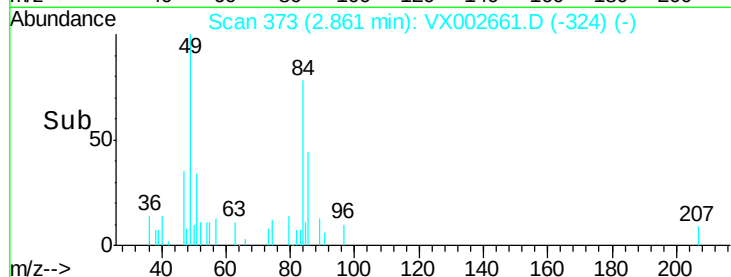
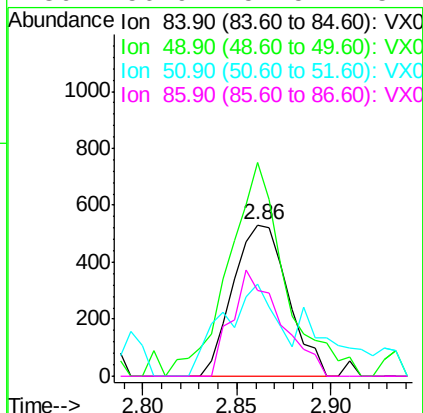
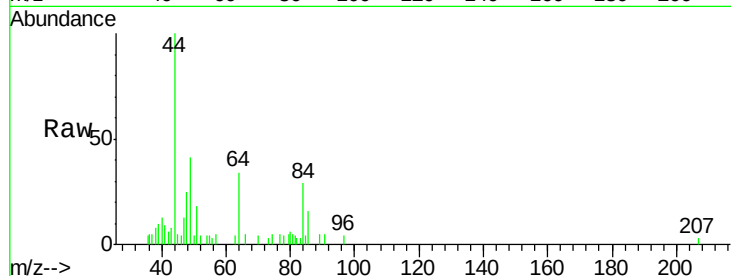




#20
Methylene Chloride
Concen: 0.376 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002661.D
Acq: 16 Jun 2018 21:38

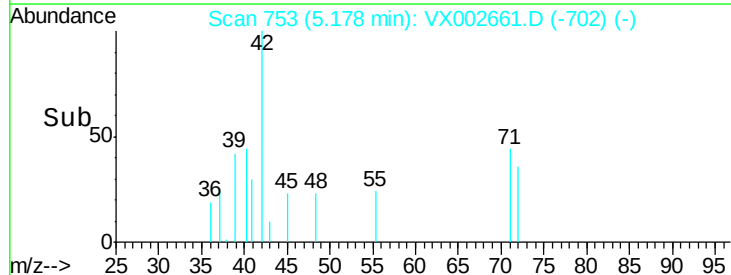
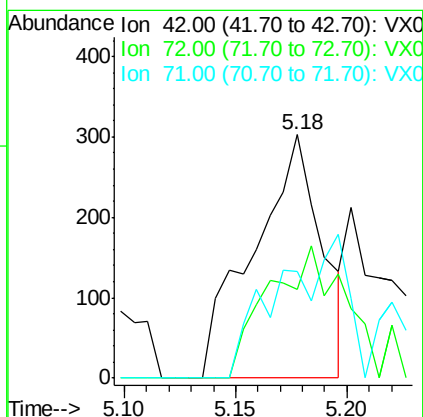
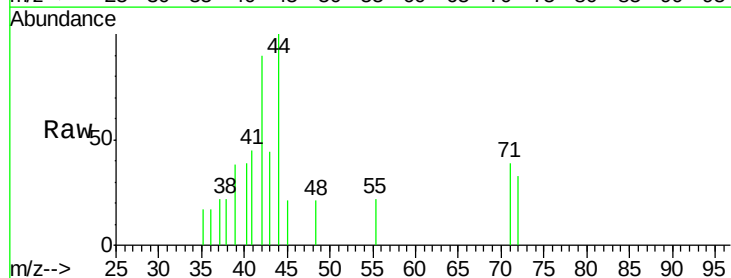
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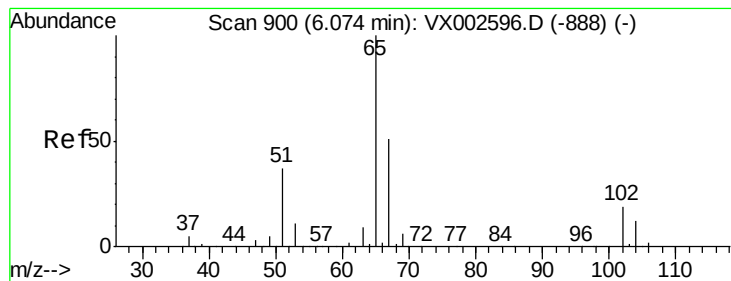
Tot Ion: 84 Resp: 1075
Ion Ratio Lower Upper
84 100
49 131.5 107.8 161.6
51 61.2 32.8 49.2#
86 56.9 52.5 78.7



#29
Tetrahydrofuran
Concen: 0.536 ug/l
RT: 5.18 min Scan# 753
Delta R.T. 0.01 min
Lab File: VX002661.D
Acq: 16 Jun 2018 21:38

Tgt Ion: 42 Resp: 643
Ion Ratio Lower Upper
42 100
72 63.8 32.0 48.0#
71 59.1 30.1 45.1#





#33

1,2-Dichloroethane-d4

Concen: 44.696 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002661.D

Acq: 16 Jun 2018 21:38

Instrument :

MSVOA_X

ClientSampleId :

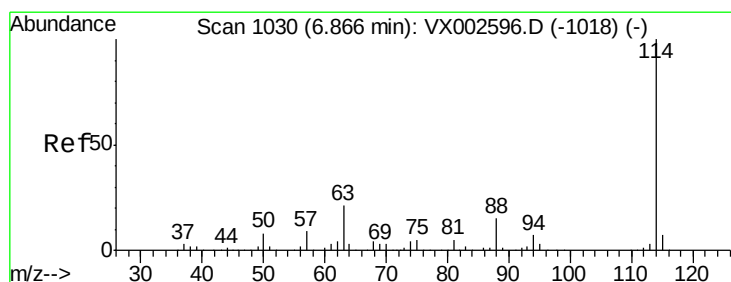
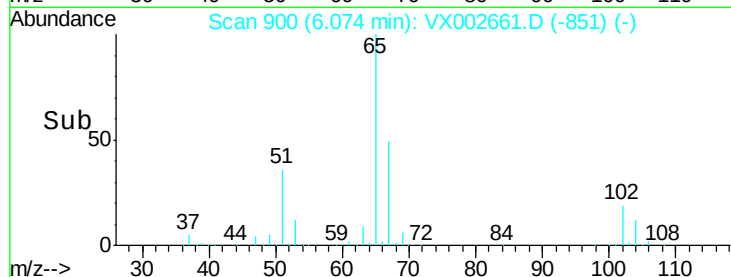
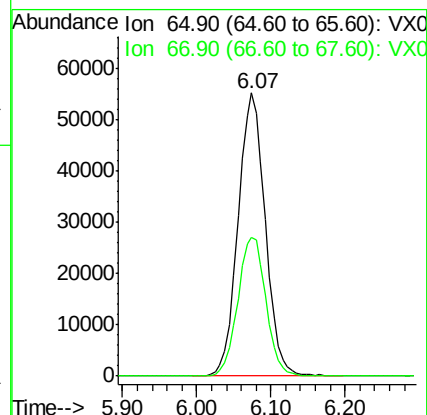
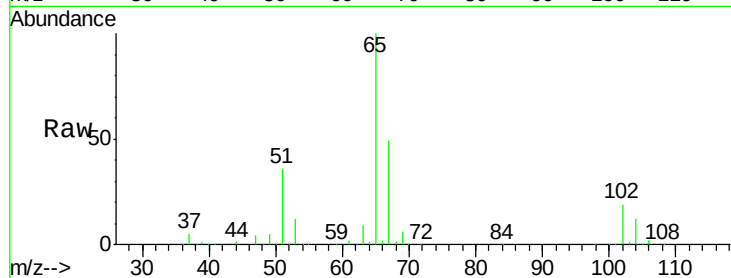
TB-061318-03

Tot Ion: 65 Resp: 141218

Ion Ratio Lower Upper

65 100

67 50.9 0.0 102.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX002661.D

Acq: 16 Jun 2018 21:38

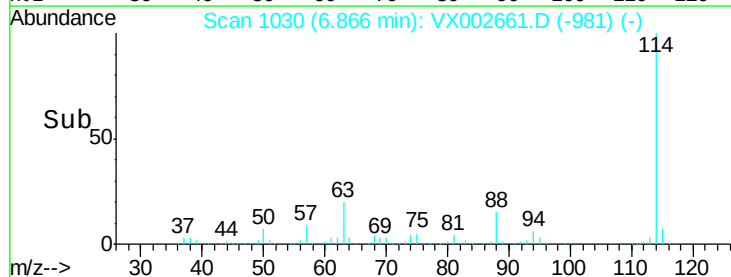
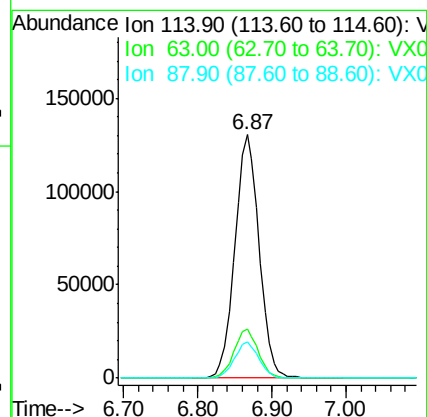
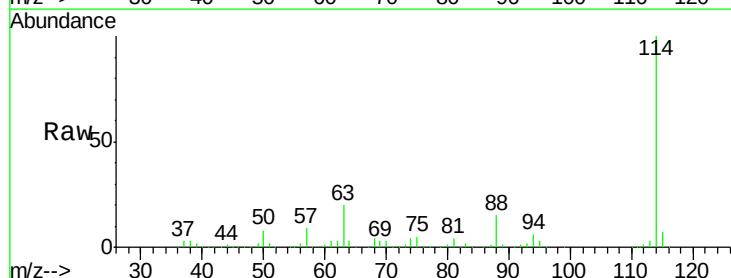
Tgt Ion: 114 Resp: 297481

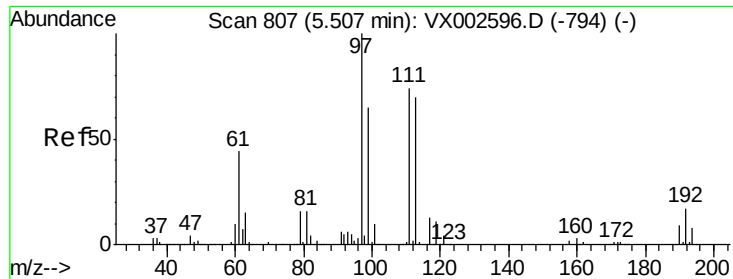
Ion Ratio Lower Upper

114 100

63 20.0 0.0 41.4

88 15.0 0.0 30.0





#35

Dibromofluoromethane

Concen: 45.860 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX002661.D

Acq: 16 Jun 2018 21:38

Instrument :

MSVOA_X

ClientSampleId :

TB-061318-03

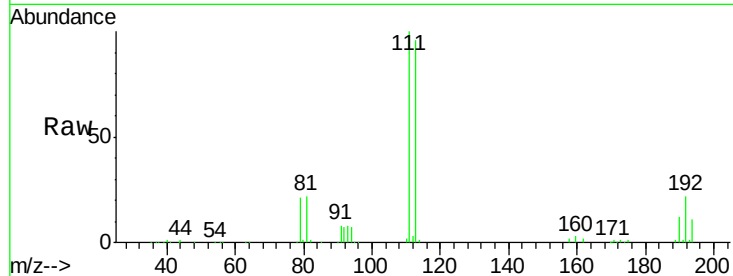
Tot Ion:113 Resp: 108880

Ion Ratio Lower Upper

113 100

111 102.0 81.4 122.0

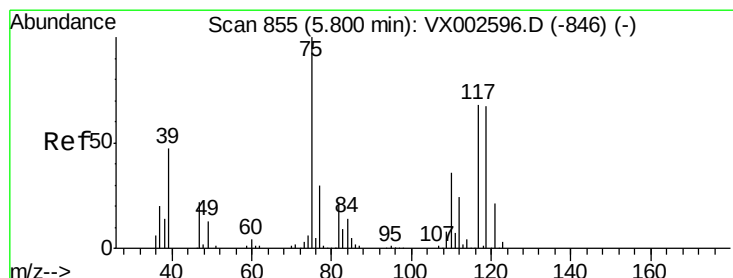
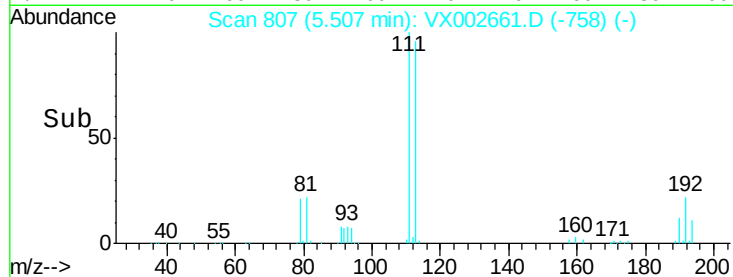
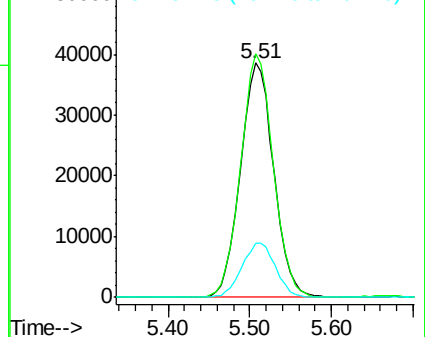
192 23.3 19.1 28.7



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: 4.521 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX002661.D

Acq: 16 Jun 2018 21:38

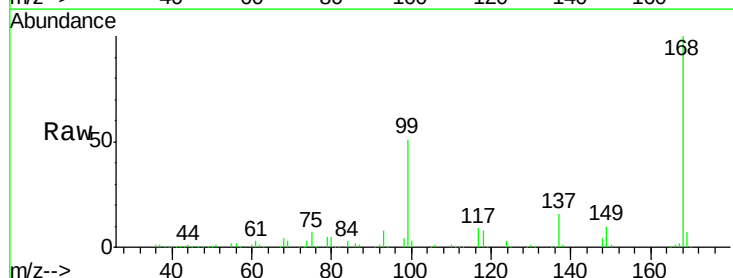
Tgt Ion: 75 Resp: 14285

Ion Ratio Lower Upper

75 100

110 10.9 18.1 54.4#

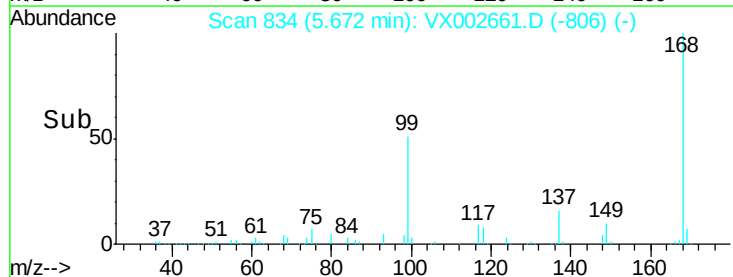
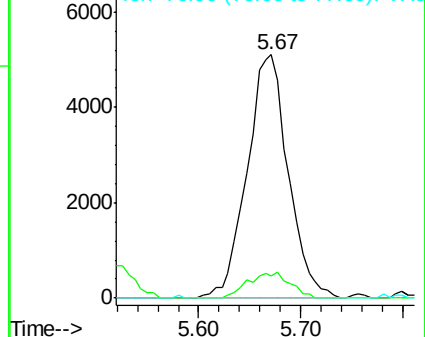
77 0.0 24.3 36.5#

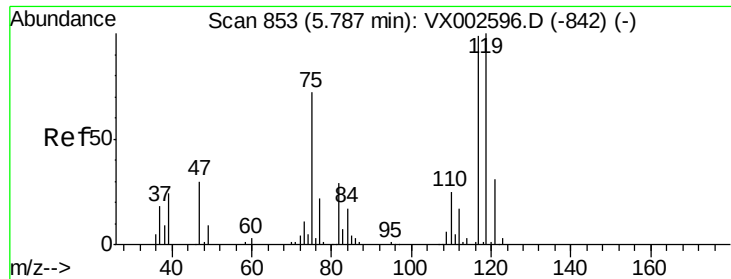


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.101 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX002661.D

Acq: 16 Jun 2018 21:38

Instrument :

MSVOA_X

ClientSampleId :

TB-061318-03

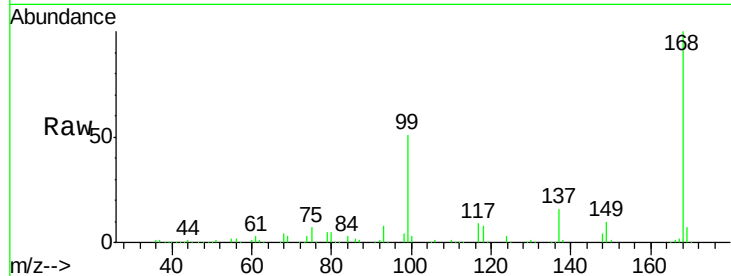
Tot Ion:117 Resp: 19193

Ion Ratio Lower Upper

117 100

119 4.7 77.4 116.0#

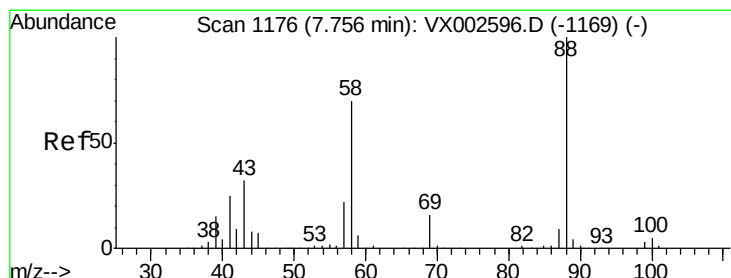
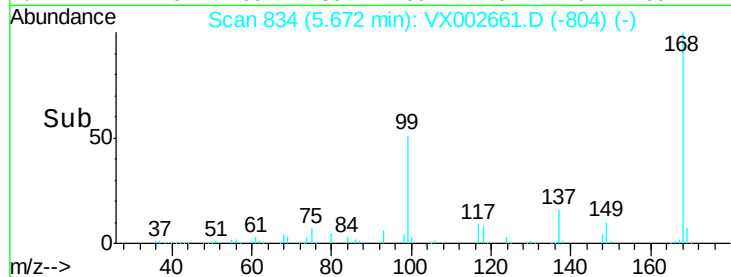
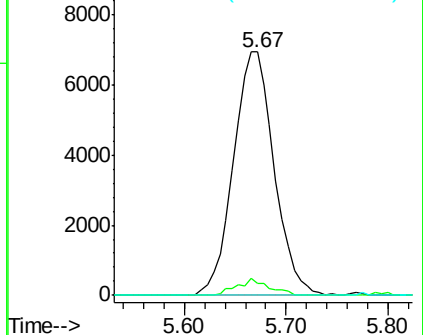
121 0.0 24.4 36.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 0.384 ug/l

RT: 7.84 min Scan# 1190

Delta R.T. 0.09 min

Lab File: VX002661.D

Acq: 16 Jun 2018 21:38

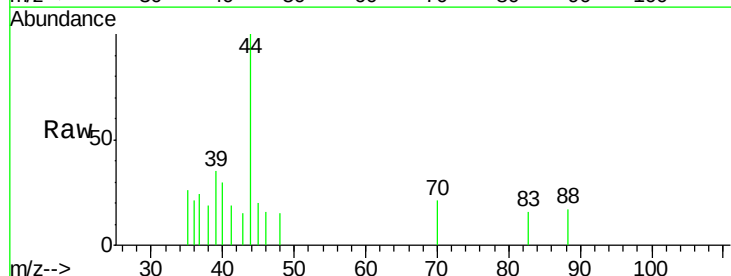
Tgt Ion: 88 Resp: 22

Ion Ratio Lower Upper

88 100

43 745.5 29.8 44.6#

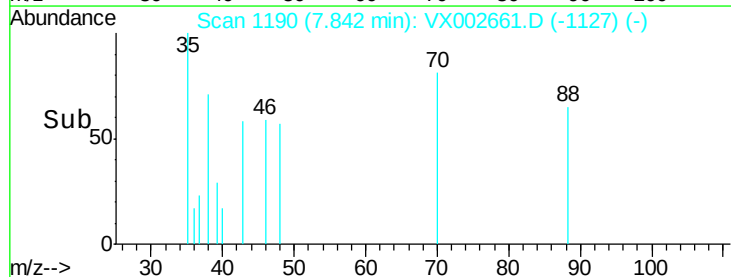
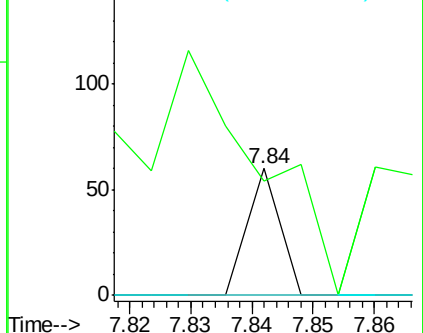
58 0.0 57.1 85.7#

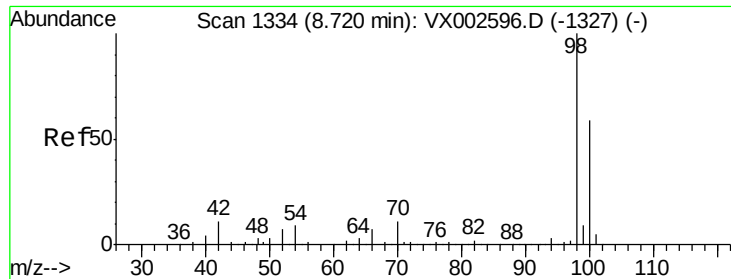


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

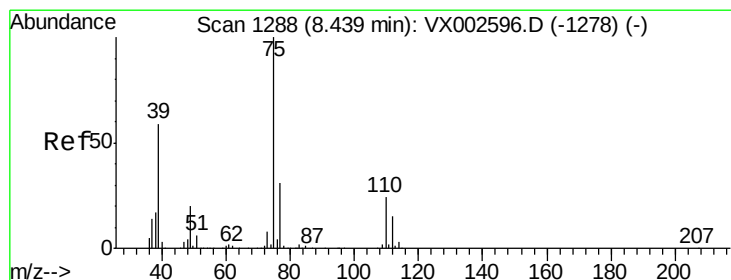
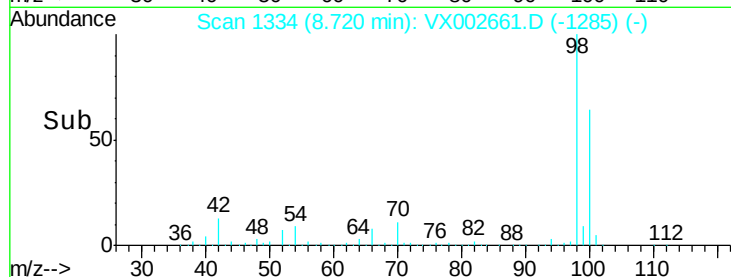
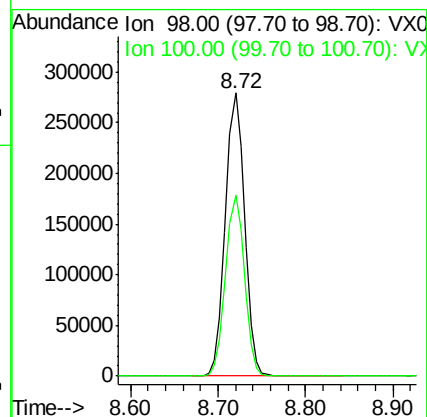
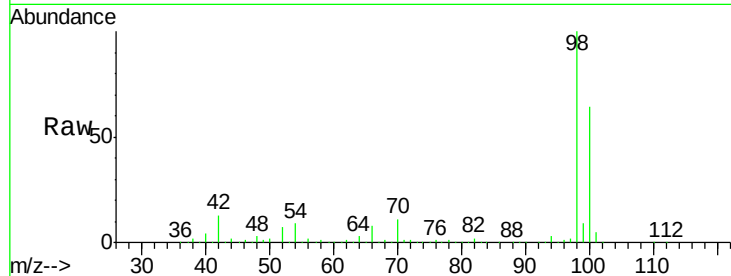




#50
Toluene-d8
Concen: 47.209 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002661.D
Acq: 16 Jun 2018 21:38

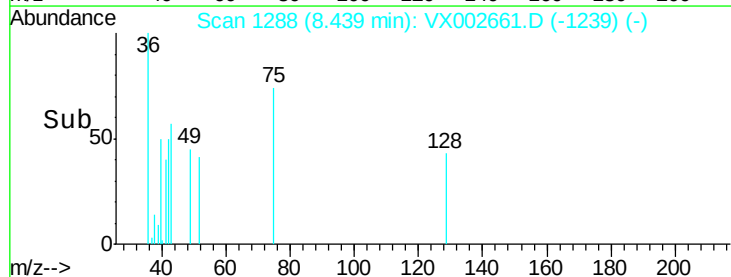
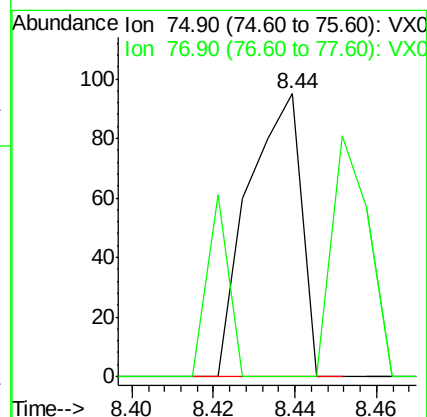
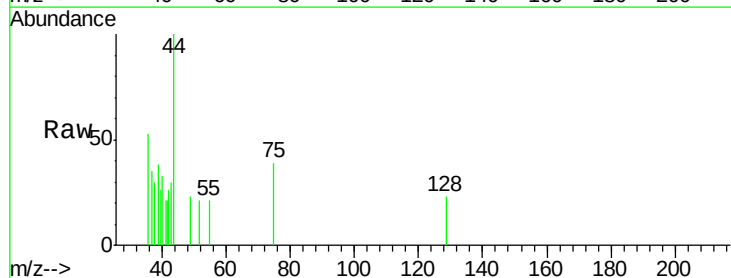
Instrument :
MSVOA_X
ClientSampleId :
TB-061318-03

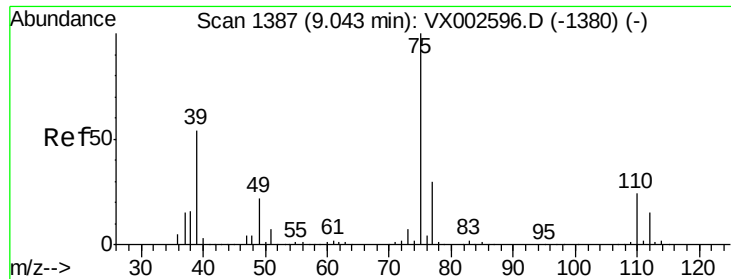
Tot Ion: 98 Resp: 425578
Ion Ratio Lower Upper
98 100
100 63.1 50.9 76.3



#53
t-1,3-Dichloropropene
Concen: 2.415 ug/l
RT: 8.44 min Scan# 1288
Delta R.T. 0.00 min
Lab File: VX002661.D
Acq: 16 Jun 2018 21:38

Tgt Ion: 75 Resp: 86
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.2#



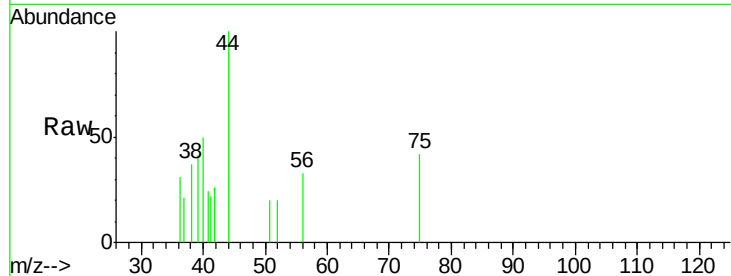


#54

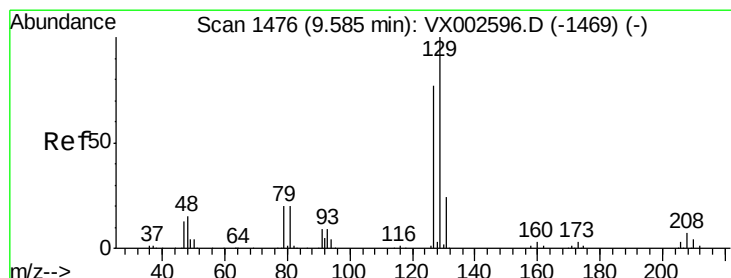
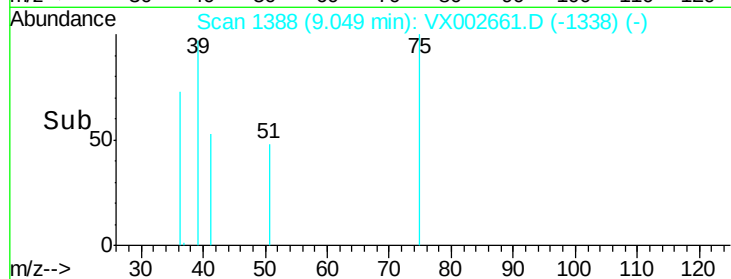
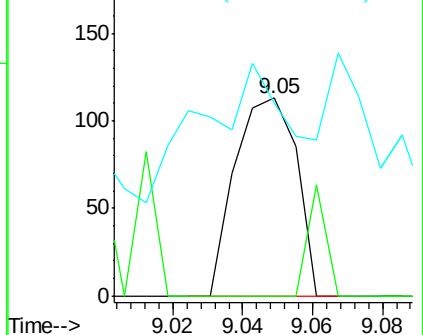
cis-1,3-Dichloropropene
 Concen: 3.247 ug/l
 RT: 9.05 min Scan# 1388
 Delta R.T. 0.01 min
 Lab File: VX002661.D
 Acq: 16 Jun 2018 21:38

Instrument :
 MSVOA_X
 ClientSampleID :
 TB-061318-03

Tot Ion: 75 Resp: 137
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 3.5 42.4 63.6#



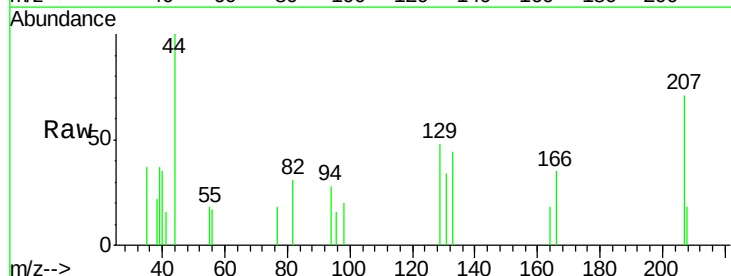
Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 76.90 (76.60 to 77.60): VX0
 Ion 39.00 (38.70 to 39.70): VX0



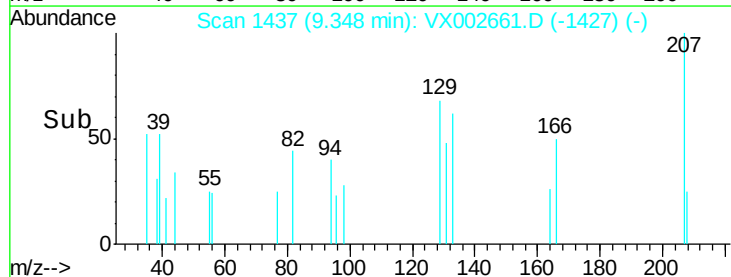
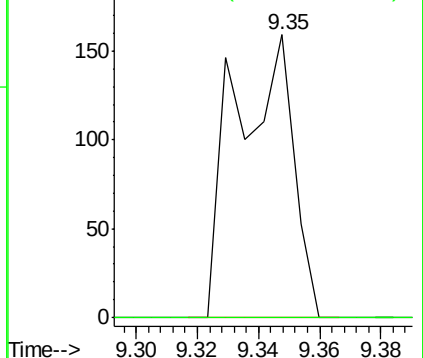
#60

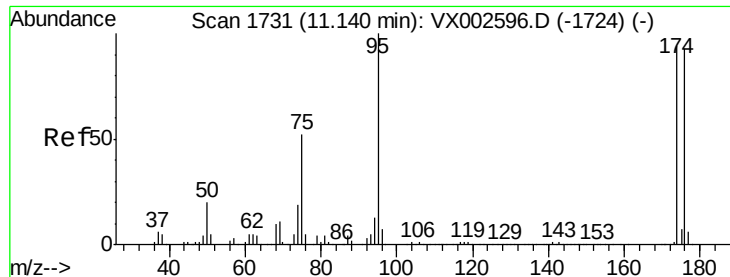
Dibromochloromethane
 Concen: 3.831 ug/l
 RT: 9.35 min Scan# 1437
 Delta R.T. -0.24 min
 Lab File: VX002661.D
 Acq: 16 Jun 2018 21:38

Tgt Ion: 129 Resp: 208
 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

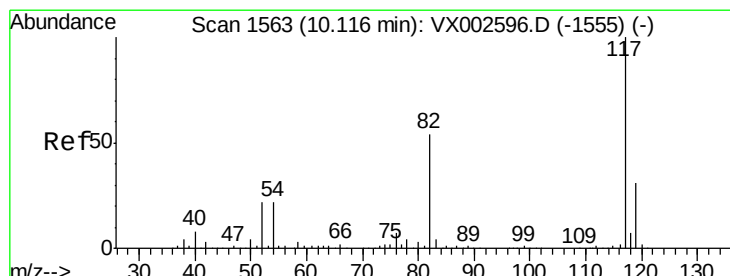
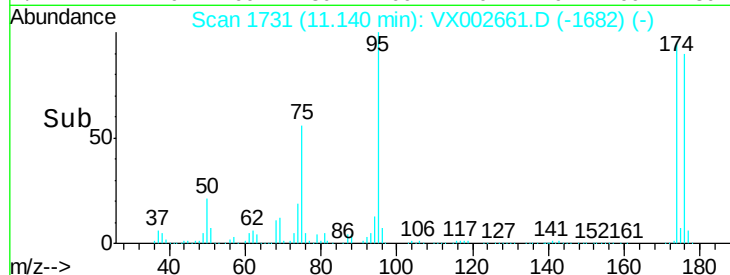
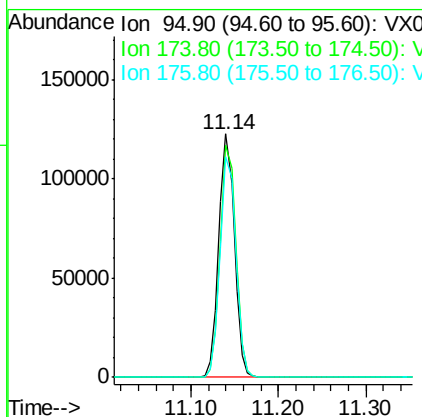
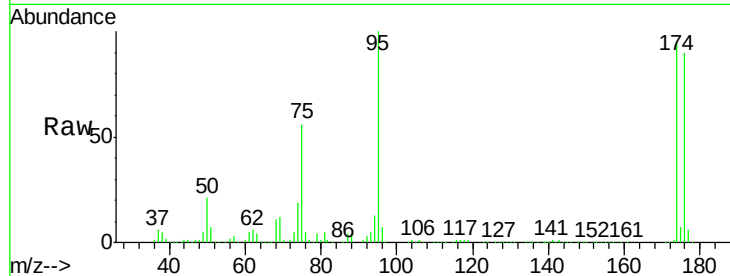




#62
4-Bromofluorobenzene
Concen: 44.061 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002661.D
Acq: 16 Jun 2018 21:38

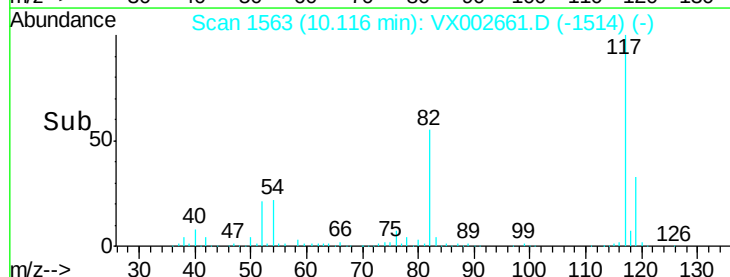
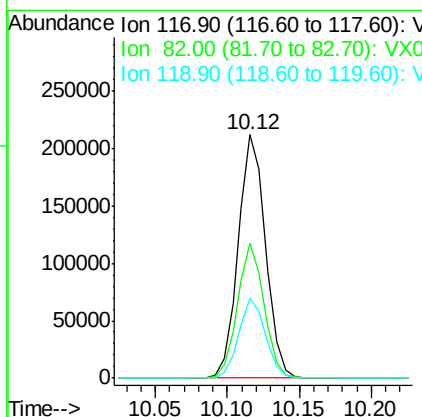
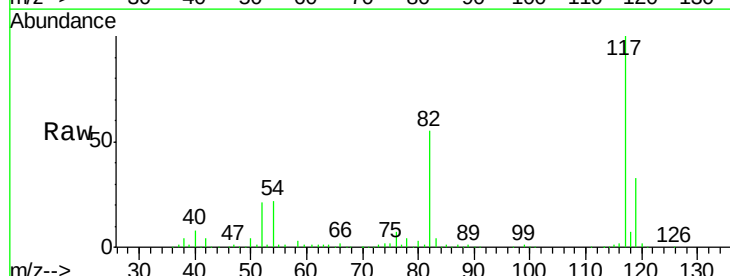
Instrument :
MSVOA_X
ClientSampleId :
TB-061318-03

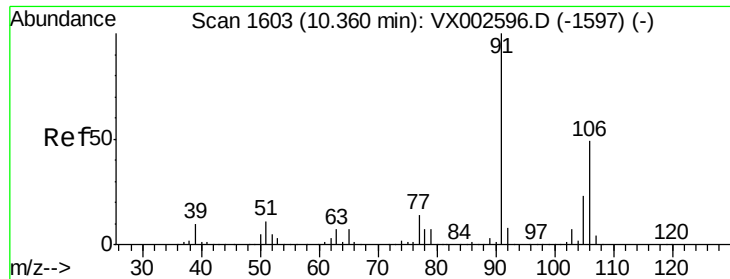
Tot Ion: 95 Resp: 150511
Ion Ratio Lower Upper
95 100
174 96.8 0.0 187.4
176 92.1 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002661.D
Acq: 16 Jun 2018 21:38

Tgt Ion: 117 Resp: 279112
Ion Ratio Lower Upper
117 100
82 55.1 45.0 67.4
119 33.0 25.8 38.6

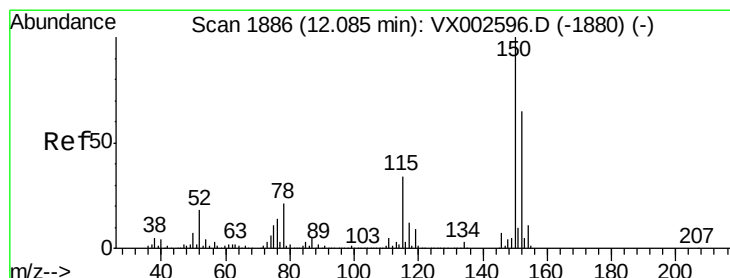
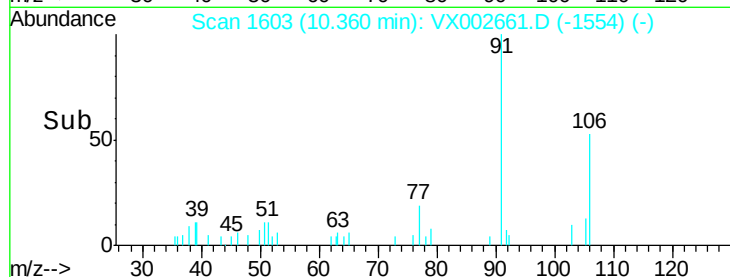
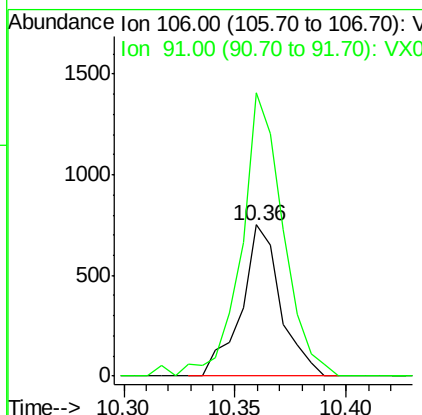
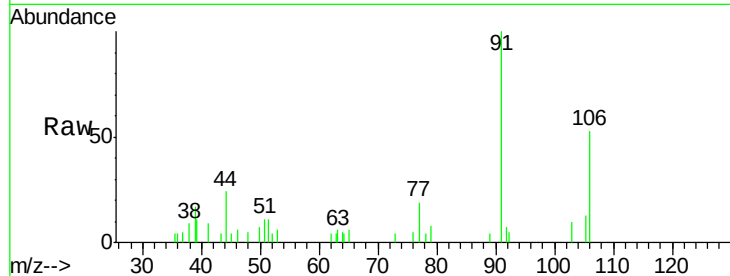




#68
m/p-Xvlenes
Concen: 0.207 ug/l
RT: 10.36 min Scan# 1603
Delta R.T. 0.00 min
Lab File: VX002661.D
Acq: 16 Jun 2018 21:38

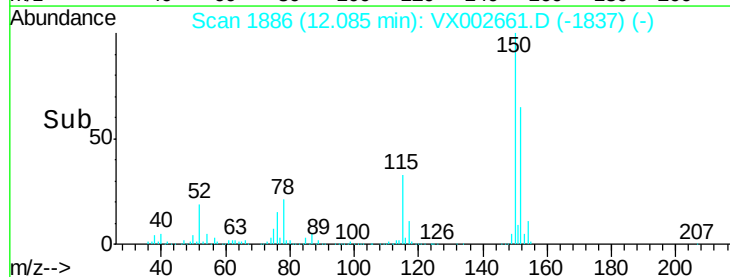
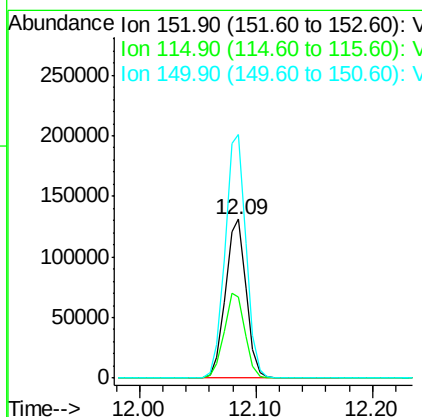
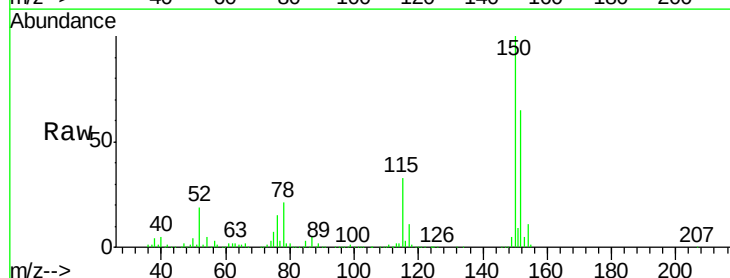
Instrument :
MSVOA_X
ClientSampleId :
TB-061318-03

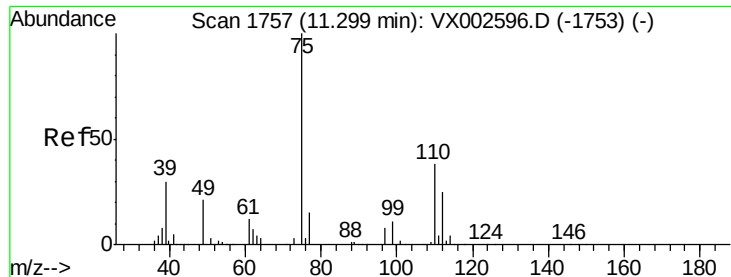
Tot Ion:106 Resp: 921
Ion Ratio Lower Upper
106 100
91 200.9 163.4 245.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VX002661.D
Acq: 16 Jun 2018 21:38

Tgt Ion:152 Resp: 161000
Ion Ratio Lower Upper
152 100
115 54.2 40.1 120.2
150 155.1 0.0 347.2





#76

1,2,3-Trichloropropane

Concen: 26.747 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002661.D

Acq: 16 Jun 2018 21:38

Instrument :

MSVOA_X

ClientSampleId :

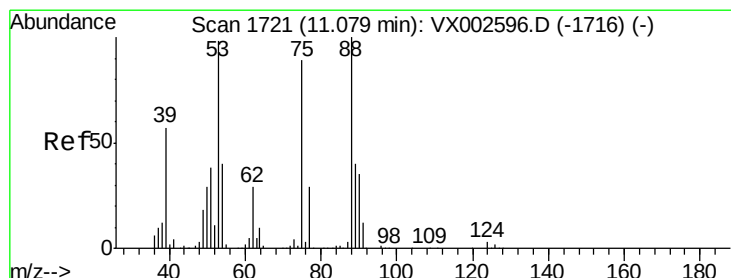
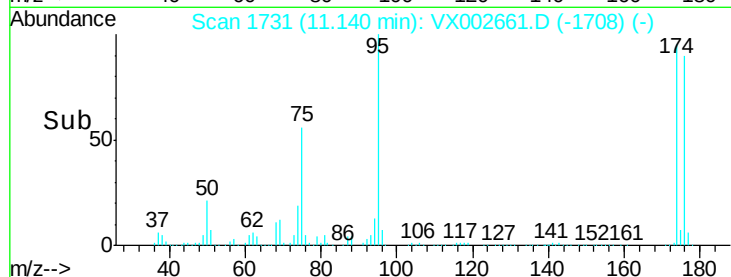
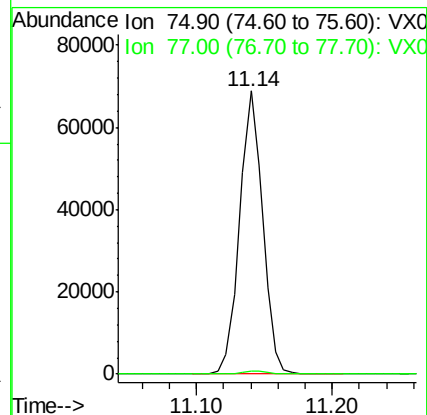
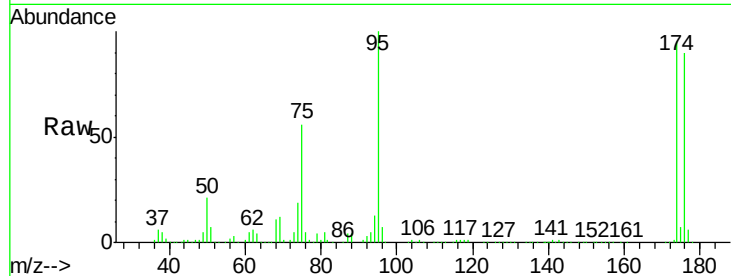
TB-061318-03

Tot Ion: 75 Resp: 81258

Ion Ratio Lower Upper

75 100

77 1.2 22.8 68.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 82.606 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002661.D

Acq: 16 Jun 2018 21:38

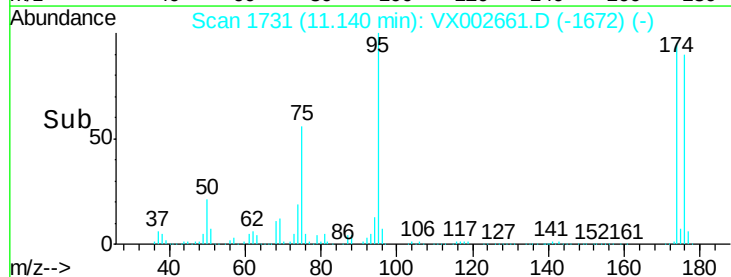
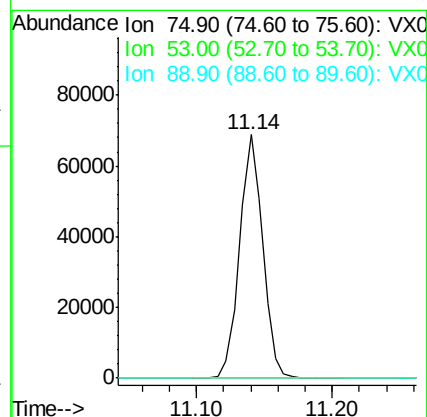
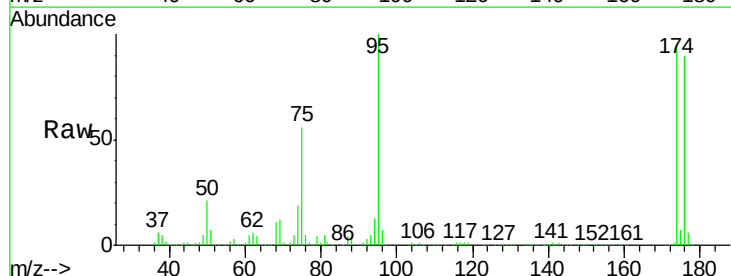
Tgt Ion: 75 Resp: 81258

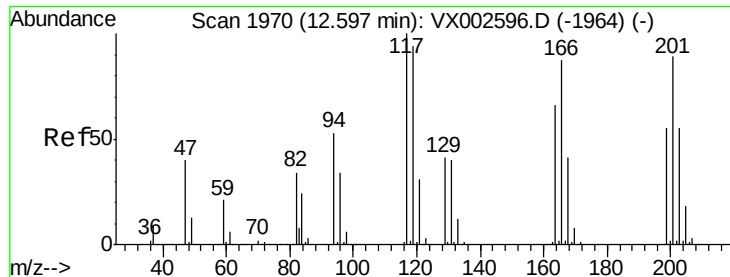
Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#





#90

Hexachloroethane

Concen: 2.710 ug/l

RT: 12.76 min Scan# 1997

Delta R.T. 0.16 min

Lab File: VX002661.D

Acq: 16 Jun 2018 21:38

Instrument :

MSVOA_X

ClientSampleId :

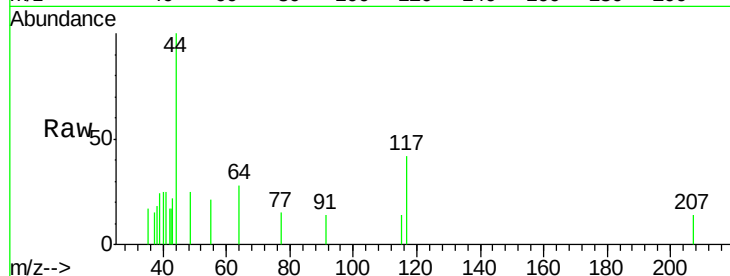
TB-061318-03

Tot Ion:117 Resp: 139

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

12.76

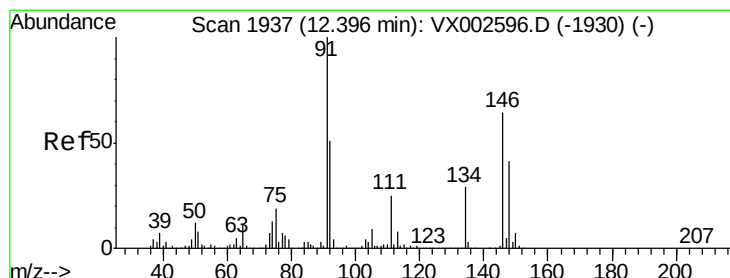
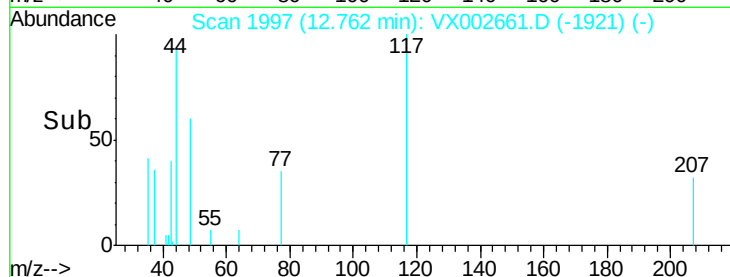
150

100

50

0

Time-->



#91

1,2-Dichlorobenzene

Concen: 0.637 ug/l

RT: 12.40 min Scan# 1937

Delta R.T. 0.00 min

Lab File: VX002661.D

Acq: 16 Jun 2018 21:38

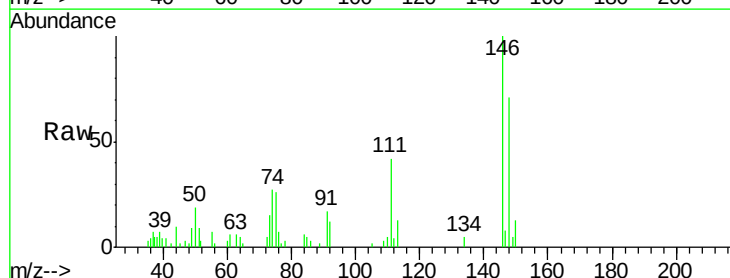
Tgt Ion:146 Resp: 3528

Ion Ratio Lower Upper

146 100

111 38.9 19.4 58.1

148 62.0 31.7 95.1



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

12.40

3000

2000

1000

0

Time-->

