

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071118\
 Data File : VX003329.D
 Acq On : 11 Jul 2018 19:29
 Operator : JC/MD
 Sample : PB110983ZHE#03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB110983ZHE#03

Quant Time: Jul 12 00:57:51 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X070918W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 09 15:24:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	264560	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	403722	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	386607	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	212948	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.08	65	186166	44.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.42%	
35) Dibromofluoromethane	5.51	113	155492	35.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	71.70%	
50) Toluene-d8	8.72	98	590825	38.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	76.70%	
62) 4-Bromofluorobenzene	11.14	95	203272	35.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	71.42%	

Target Compounds

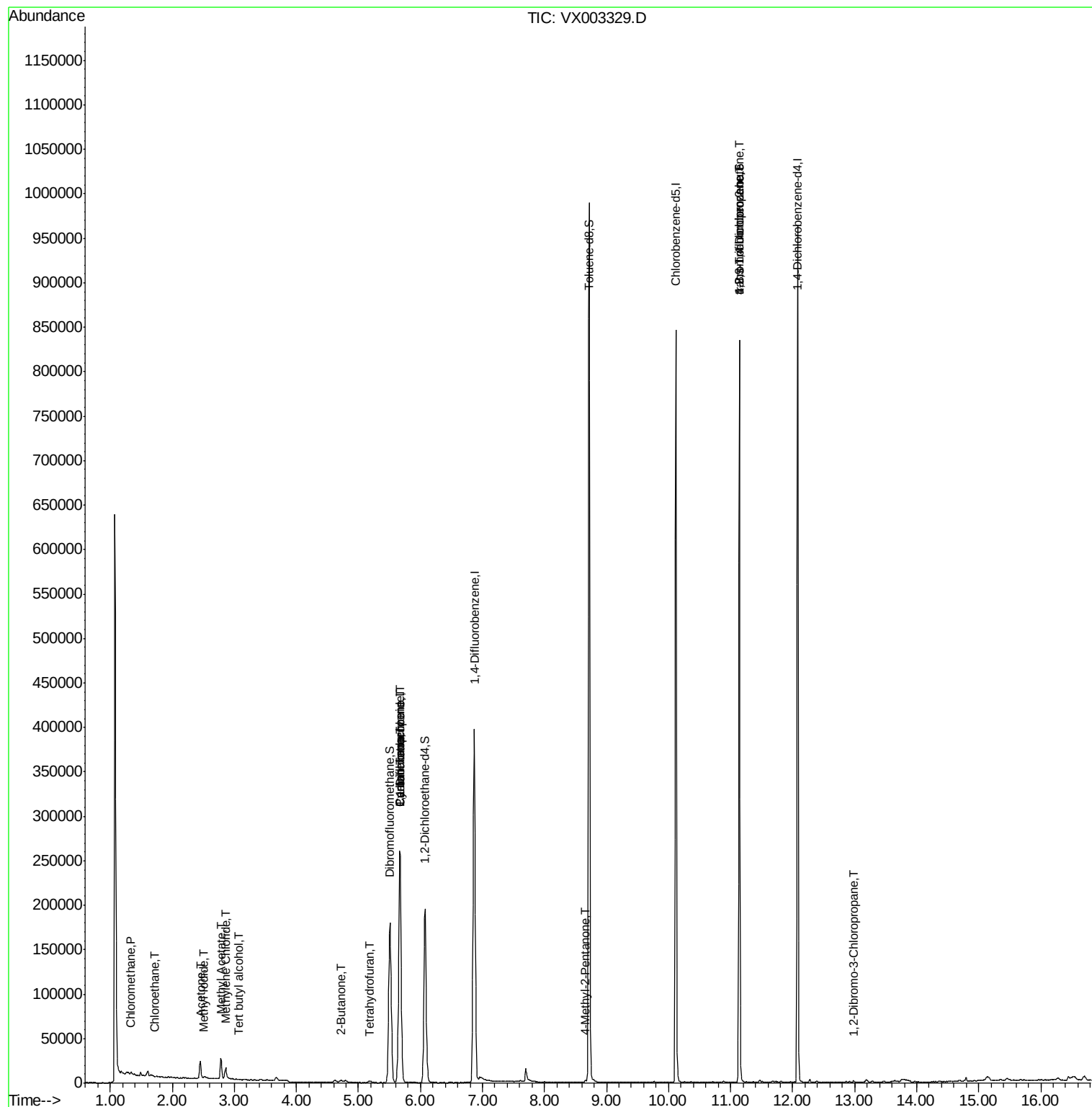
						Qvalue
3) Chloromethane	1.32	50	840	0.23	ug/l	98
5) Bromomethane	1.65	94	2142	Below	Cal #	77
6) Chloroethane	1.72	64	1179	0.57	ug/l #	44
10) Methyl Iodide	2.51	142	2757	6.33	ug/l	94
11) Tert butyl alcohol	3.07	59	394	0.52	ug/l	95
16) Acetone	2.45	43	21404	14.48	ug/l	92
18) Methyl Acetate	2.78	43	27778	6.66	ug/l	94
20) Methylene Chloride	2.86	84	6277	1.39	ug/l	86
25) 2-Butanone	4.72	43	4936	1.89	ug/l	95
29) Tetrahydrofuran	5.17	42	1965	1.16	ug/l #	80
31) Cyclohexane	5.66	56	4973	0.91	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	18163	3.18	ug/l #	51
38) Carbon Tetrachloride	5.67	117	23728	3.80	ug/l #	15
51) 4-Methyl-2-Pentanone	8.66	43	1380	0.23	ug/l #	78
76) 1,2,3-Trichloropropane	11.14	75	100724	21.89	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	100724	71.53	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	12.98	75	281	0.25	ug/l #	1

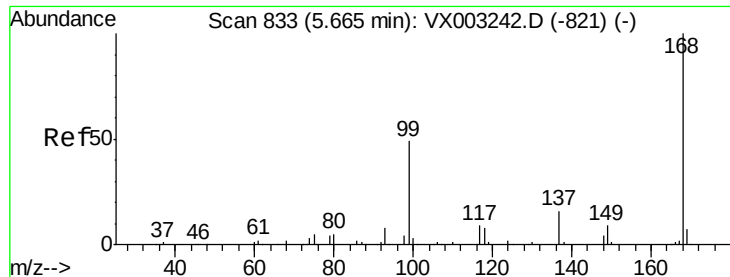
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX003329.D

Acq: 11 Jul 2018 19:29

Instrument :

MSVOA_X

ClientSampleId :

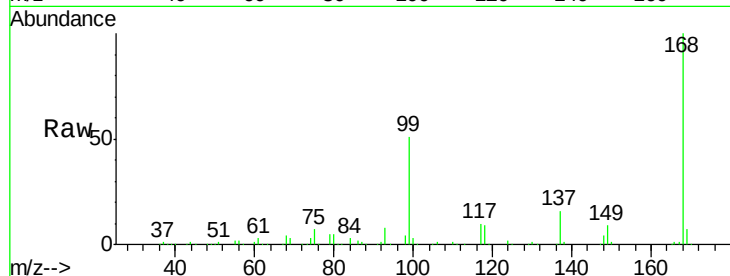
PB110983ZHE#03

Tot Ion:168 Resp: 264560

Ion Ratio Lower Upper

168 100

99 51.3 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

100000

80000

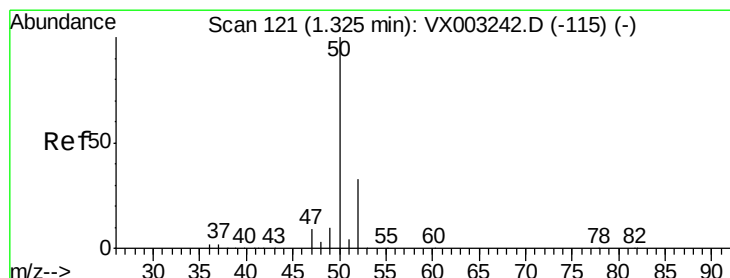
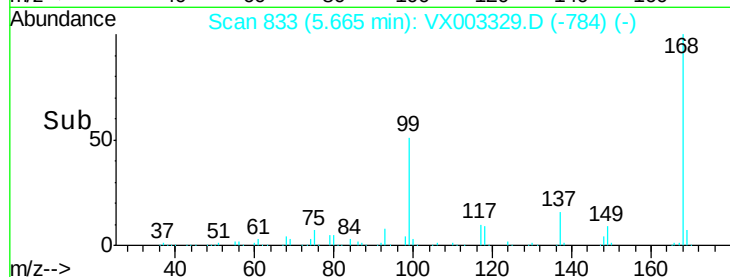
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.23 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX003329.D

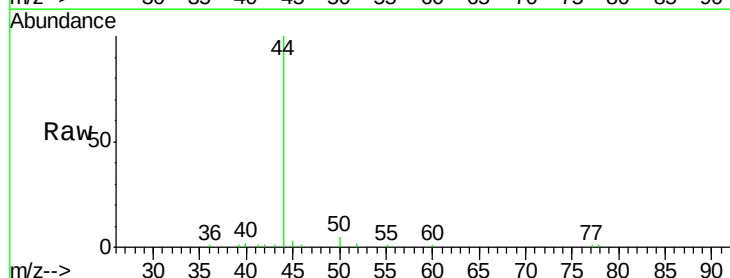
Acq: 11 Jul 2018 19:29

Tgt Ion: 50 Resp: 840

Ion Ratio Lower Upper

50 100

52 31.0 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

500

400

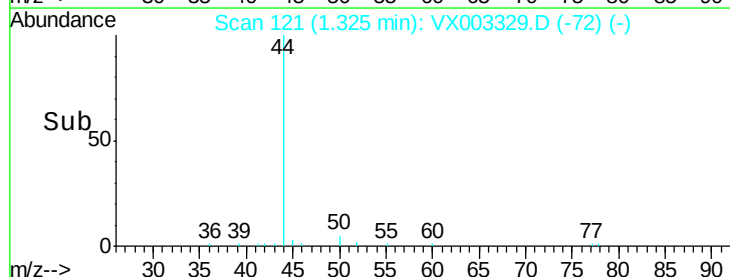
300

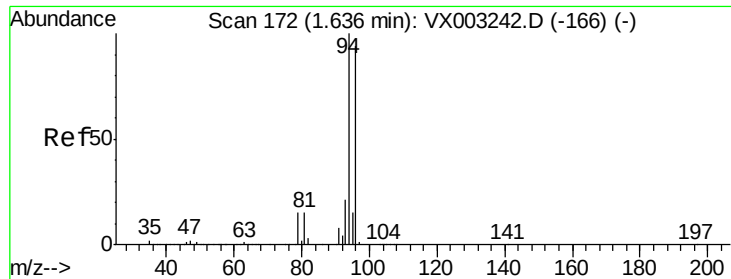
200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX003329.D

Acq: 11 Jul 2018 19:29

Instrument :

MSVOA_X

ClientSampleId :

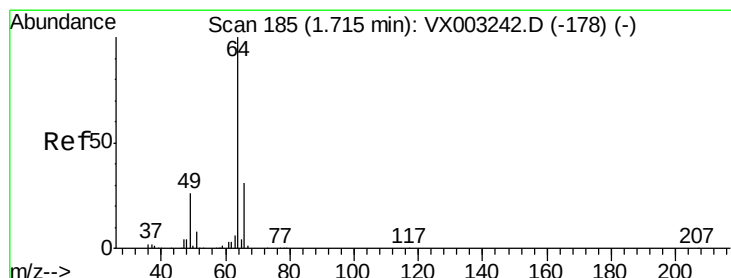
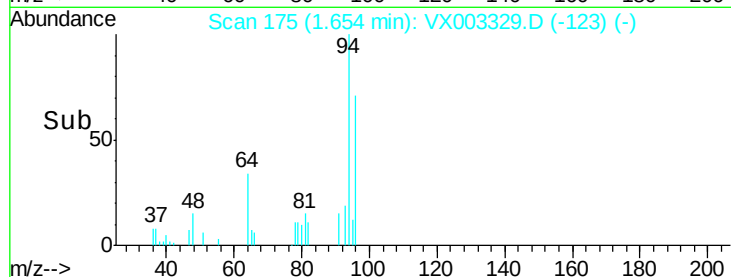
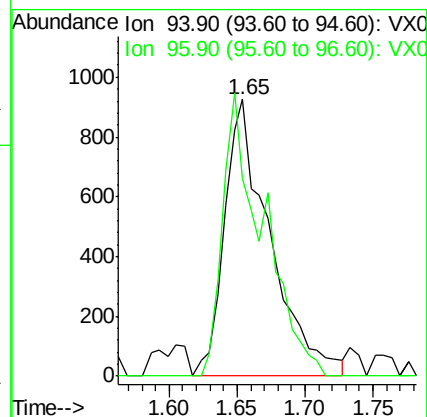
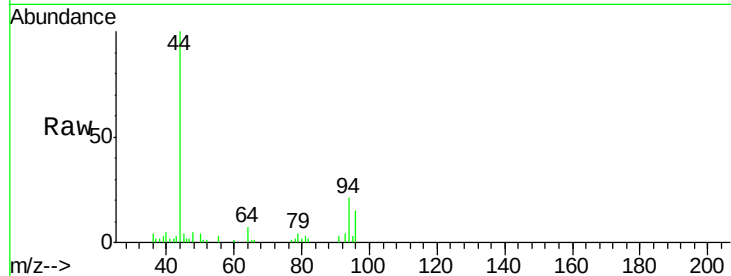
PB110983ZHE#03

Tot Ion: 94 Resp: 2142

Ion Ratio Lower Upper

94 100

96 71.2 74.9 112.3#



#6

Chloroethane

Concen: 0.57 ug/l

RT: 1.72 min Scan# 186

Delta R.T. 0.01 min

Lab File: VX003329.D

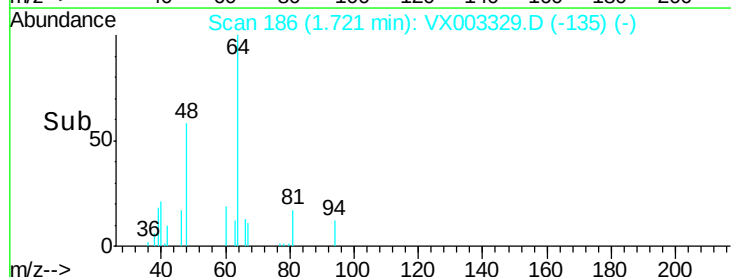
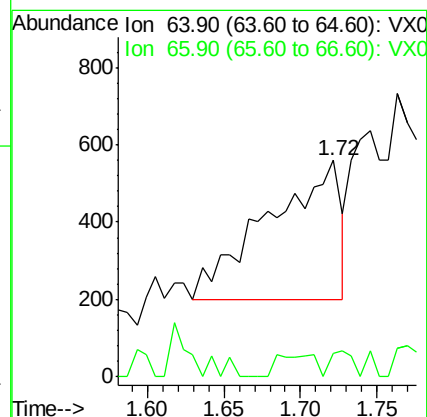
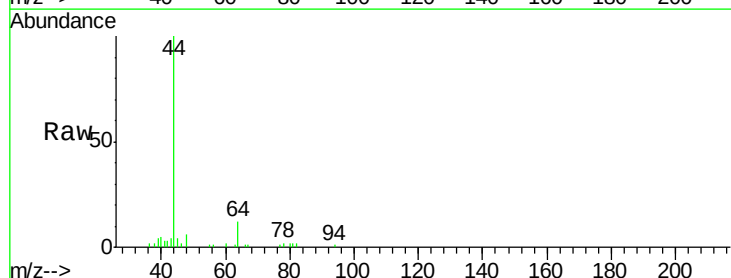
Acq: 11 Jul 2018 19:29

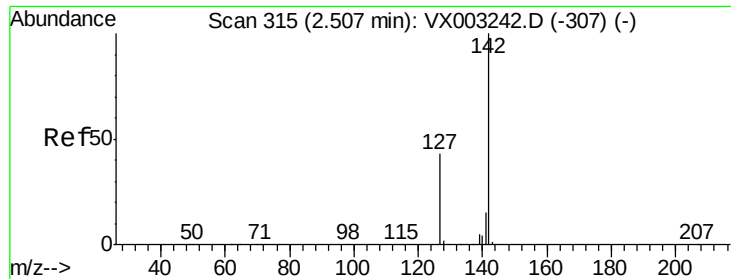
Tgt Ion: 64 Resp: 1179

Ion Ratio Lower Upper

64 100

66 0.8 25.5 38.3#

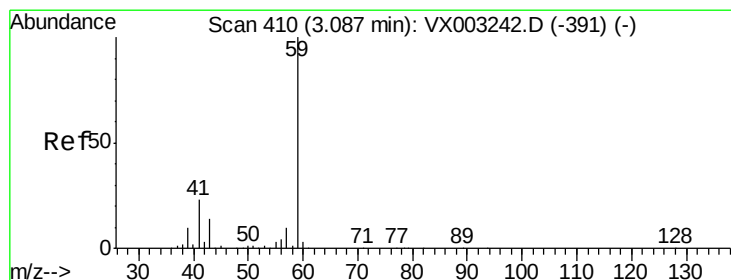
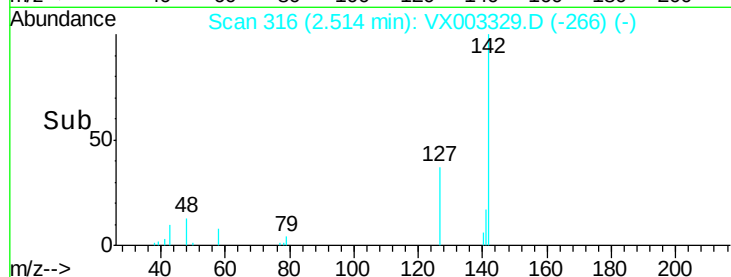
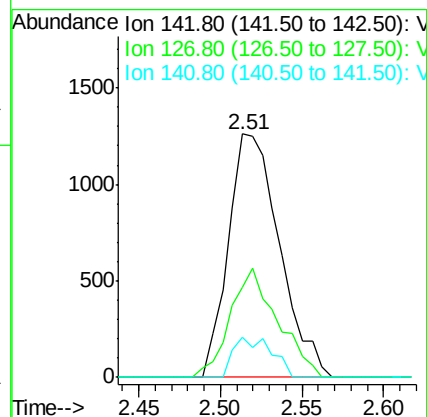
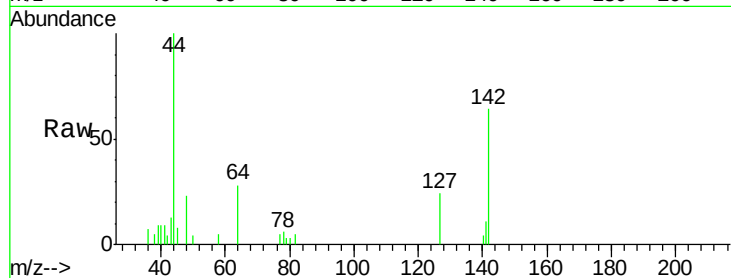




#10
Methvl Iodide
Concen: 6.33 ug/l
RT: 2.51 min Scan# 316
Delta R.T. 0.01 min
Lab File: VX003329.D
Acq: 11 Jul 2018 19:29

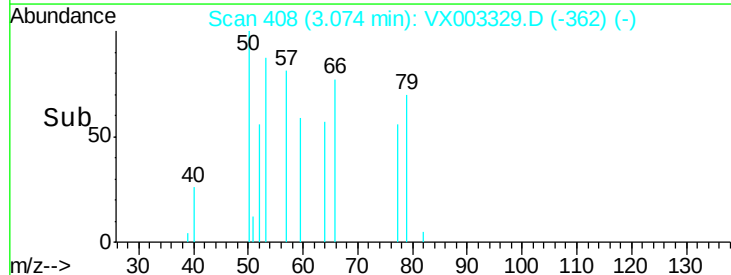
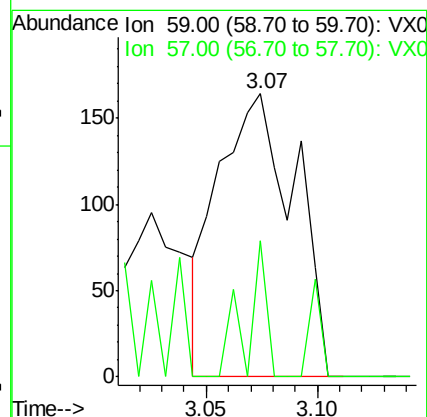
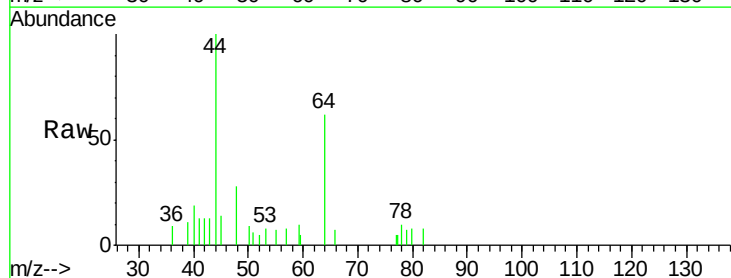
Instrument :
MSVOA_X
ClientSampleId :
PB110983ZHE#03

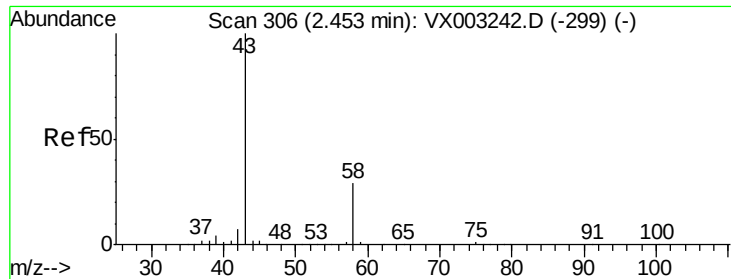
Tot Ion:142 Resp: 2757
Ion Ratio Lower Upper
142 100
127 41.3 36.6 55.0
141 12.3 11.3 16.9



#11
Tert butyl alcohol
Concen: 0.52 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.02 min
Lab File: VX003329.D
Acq: 11 Jul 2018 19:29

Tgt Ion: 59 Resp: 394
Ion Ratio Lower Upper
59 100
57 12.2 8.2 12.2





#16

Acetone

Concen: 14.48 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX003329.D

Acq: 11 Jul 2018 19:29

Instrument :

MSVOA_X

ClientSampleId :

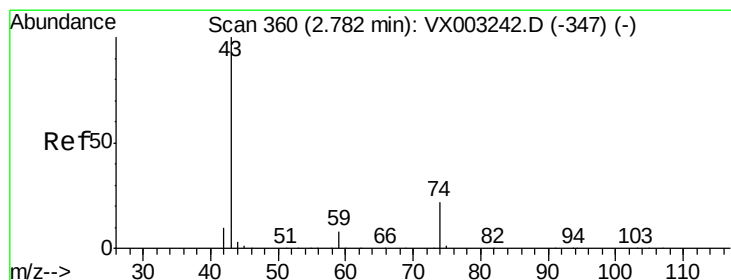
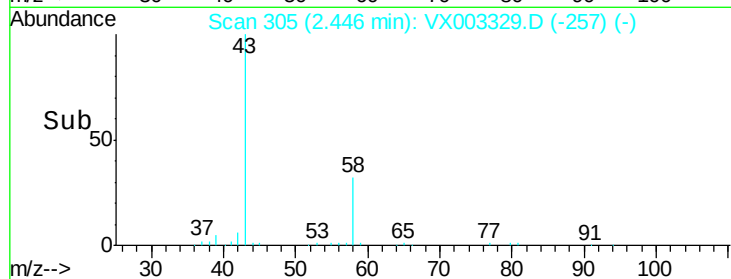
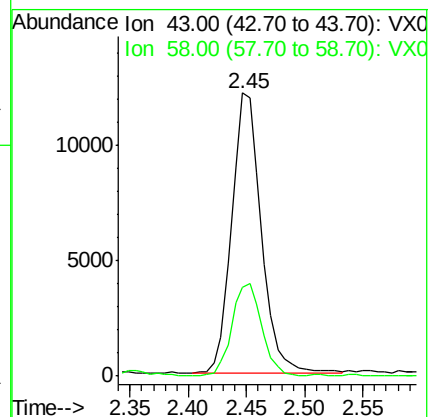
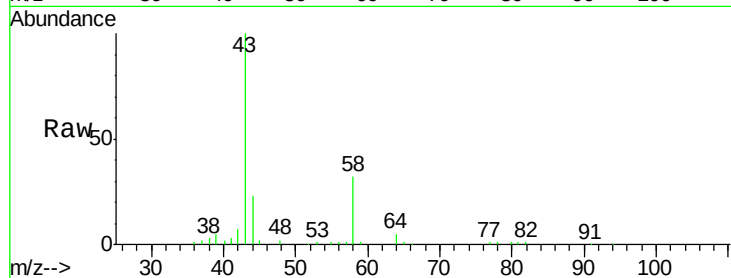
PB110983ZHE#03

Tot Ion: 43 Resp: 21404

Ion Ratio Lower Upper

43 100

58 31.9 22.1 33.1



#18

Methyl Acetate

Concen: 6.66 ug/l

RT: 2.78 min Scan# 360

Delta R.T. -0.00 min

Lab File: VX003329.D

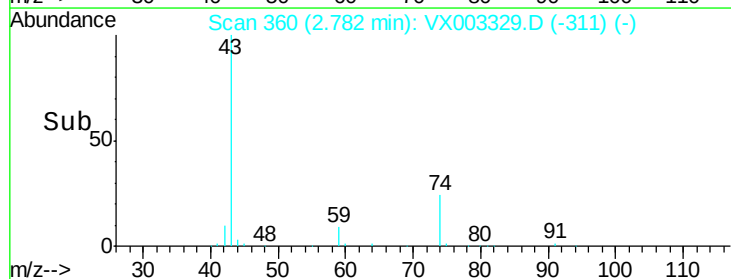
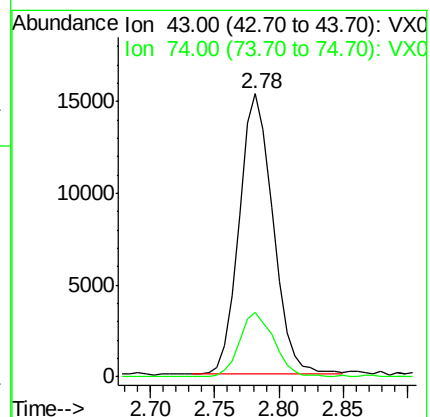
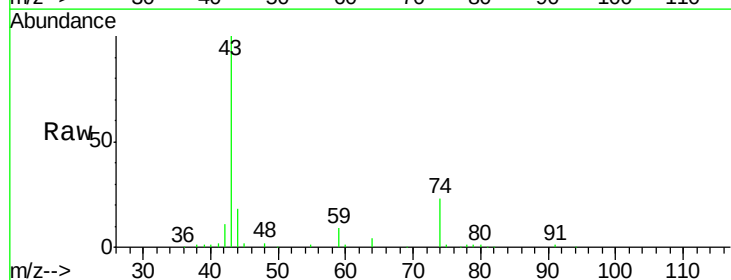
Acq: 11 Jul 2018 19:29

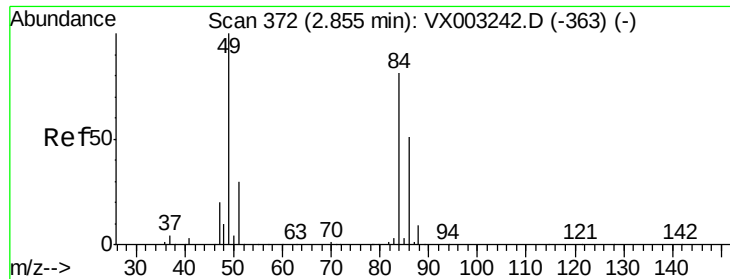
Tgt Ion: 43 Resp: 27778

Ion Ratio Lower Upper

43 100

74 23.6 16.7 25.1

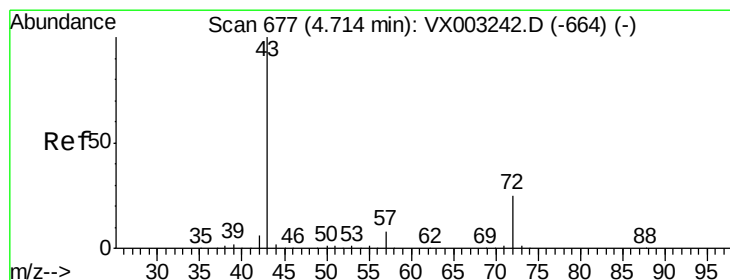
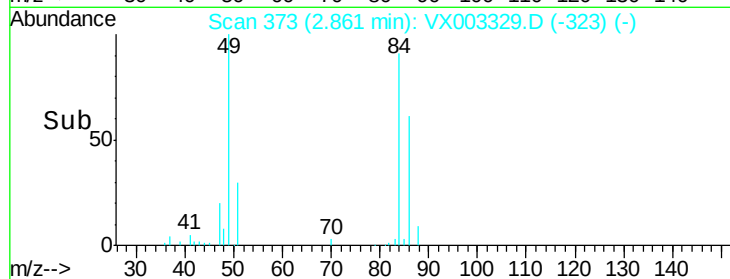
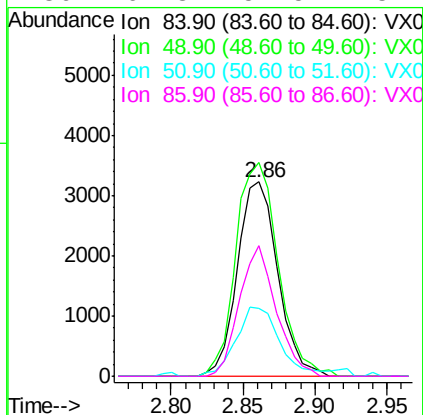
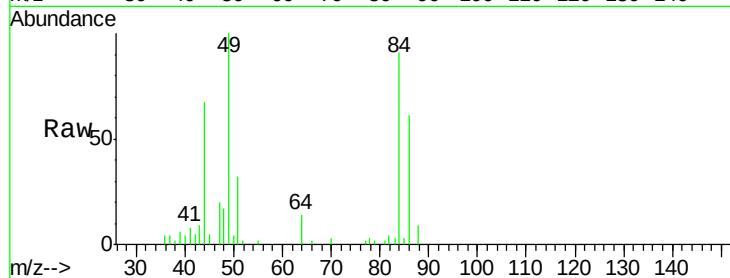




#20
Methylene Chloride
Concen: 1.39 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX003329.D
Acq: 11 Jul 2018 19:29

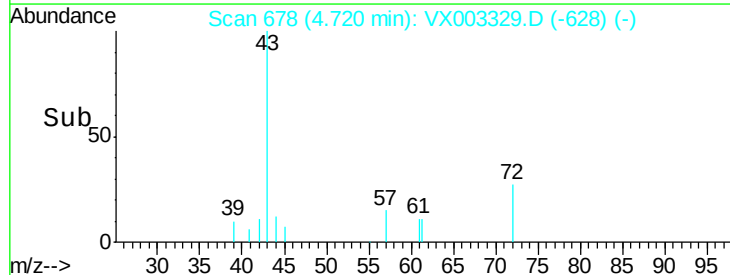
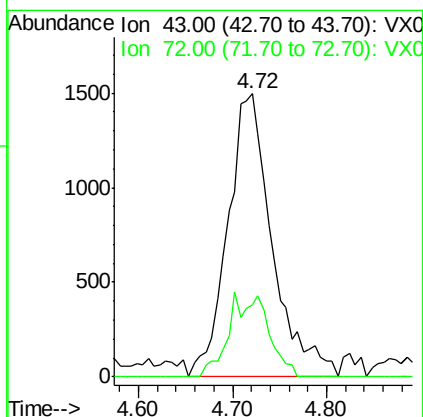
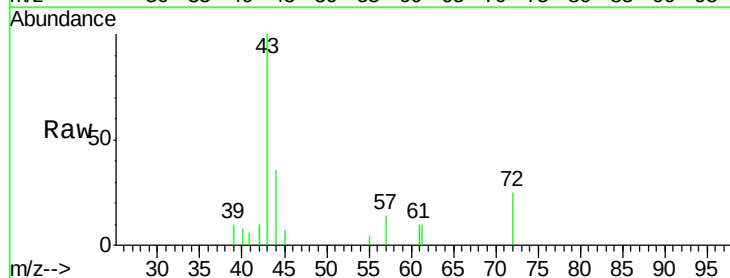
Instrument :
MSVOA_X
ClientSampleId :
PB110983ZHE#03

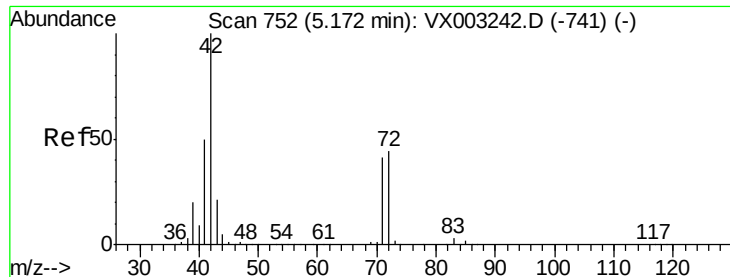
Tot Ion: 84 Resp: 6277
Ion Ratio Lower Upper
84 100
49 110.0 107.8 161.6
51 35.1 32.8 49.2
86 67.3 52.5 78.7



#25
2-Butanone
Concen: 1.89 ug/l
RT: 4.72 min Scan# 678
Delta R.T. 0.01 min
Lab File: VX003329.D
Acq: 11 Jul 2018 19:29

Tgt Ion: 43 Resp: 4936
Ion Ratio Lower Upper
43 100
72 25.4 18.5 27.7

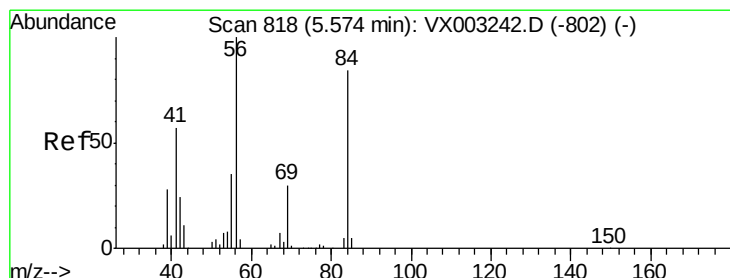
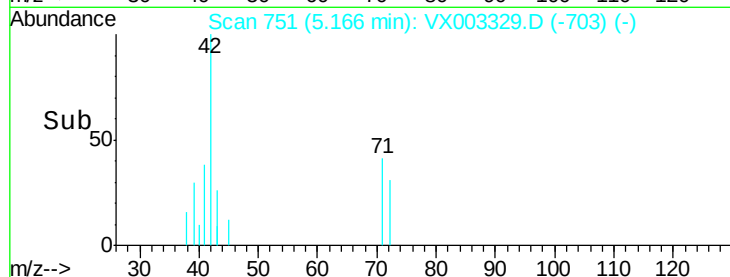
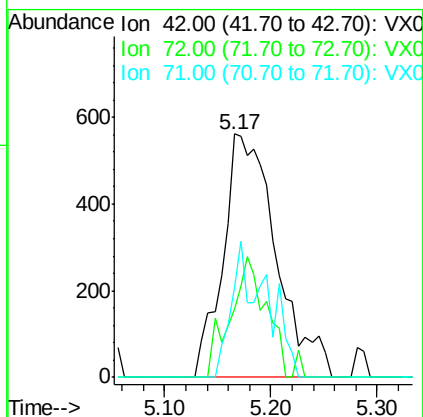
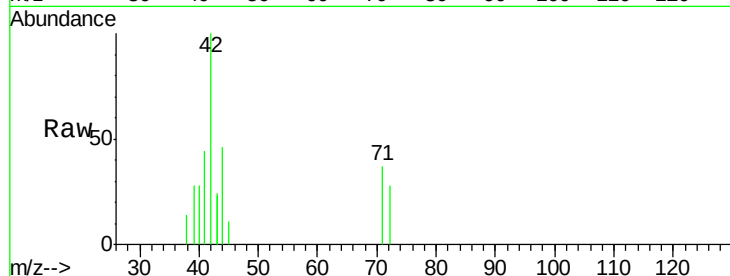




#29
Tetrahydrofuran
Concen: 1.16 ug/l
RT: 5.17 min Scan# 751
Delta R.T. -0.01 min
Lab File: VX003329.D
Acq: 11 Jul 2018 19:29

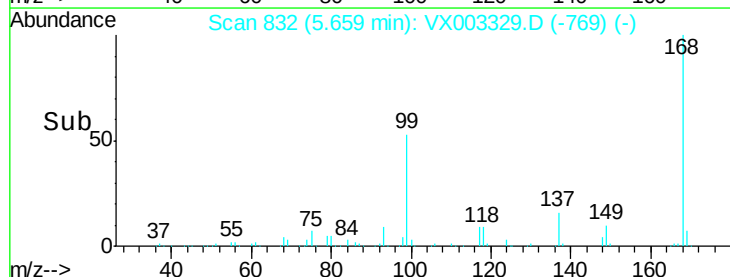
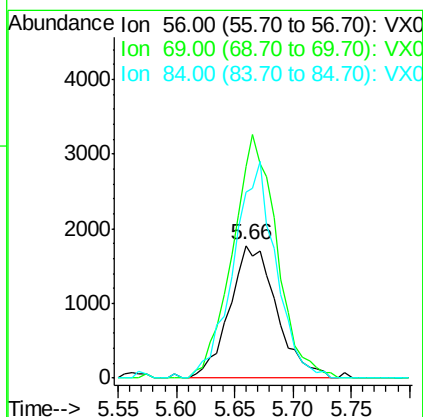
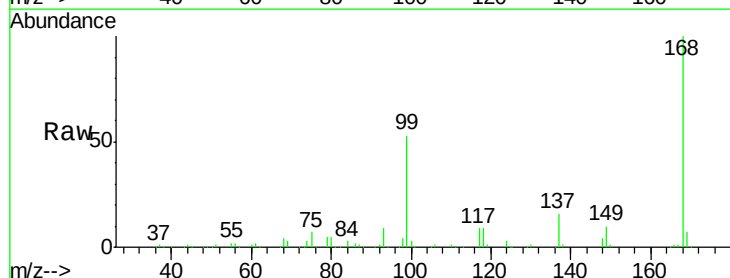
Instrument :
MSVOA_X
ClientSampleId :
PB110983ZHE#03

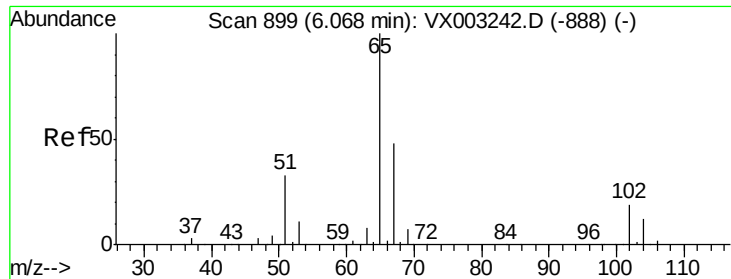
Tot Ion: 42 Resp: 1965
Ion Ratio Lower Upper
42 100
72 33.3 32.0 48.0
71 19.8 30.1 45.1#



#31
Cyclohexane
Concen: 0.91 ug/l
RT: 5.66 min Scan# 832
Delta R.T. 0.09 min
Lab File: VX003329.D
Acq: 11 Jul 2018 19:29

Tgt Ion: 56 Resp: 4973
Ion Ratio Lower Upper
56 100
69 159.8 23.7 35.5#
84 140.7 64.1 96.1#

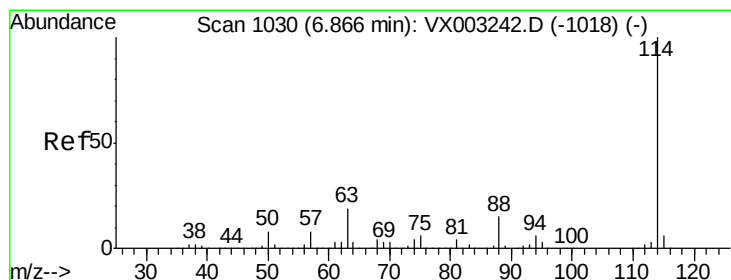
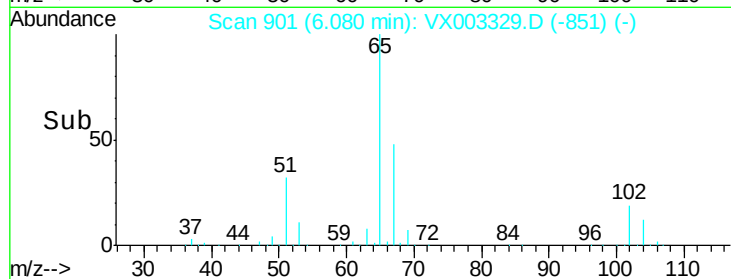
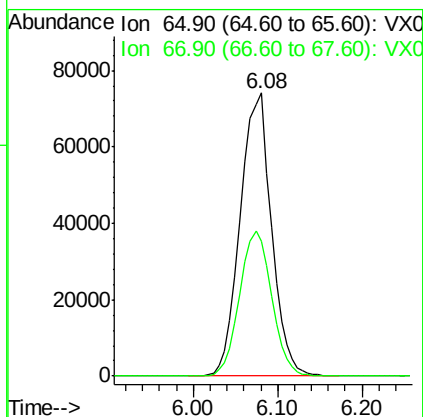
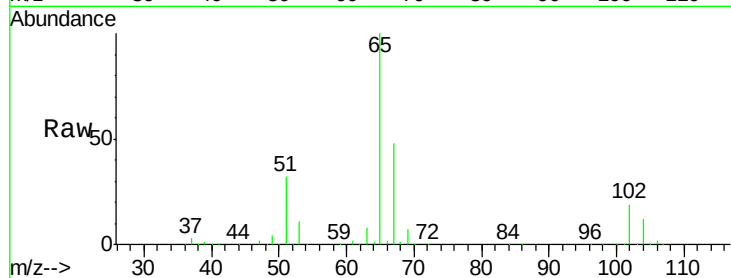




#33
 1,2-Dichloroethane-d4
 Concen: 44.71 ug/l
 RT: 6.08 min Scan# 901
 Delta R.T. 0.01 min
 Lab File: VX003329.D
 Acq: 11 Jul 2018 19:29

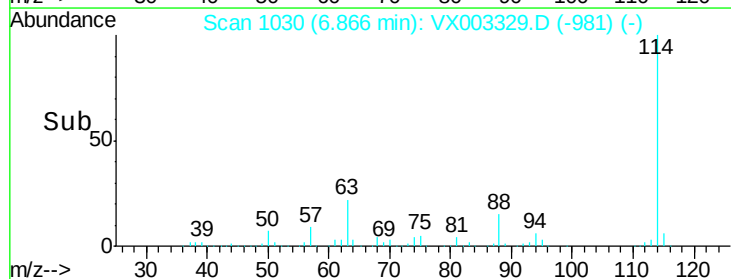
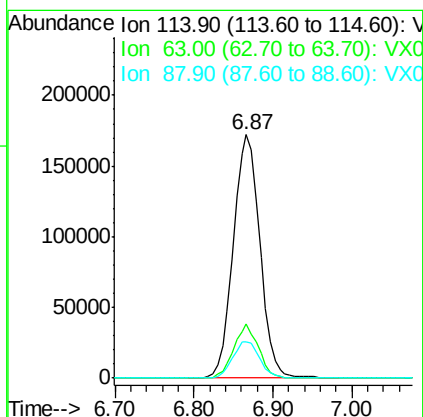
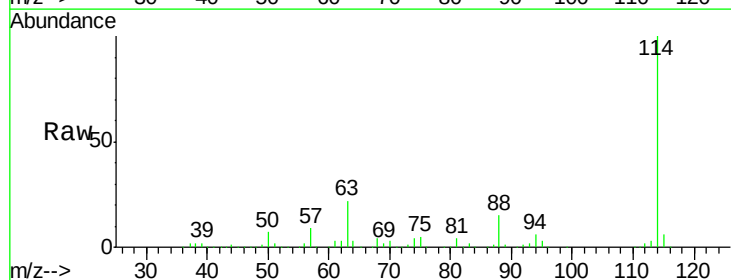
Instrument :
 MSVOA_X
 ClientSampleId :
 PB110983ZHE#03

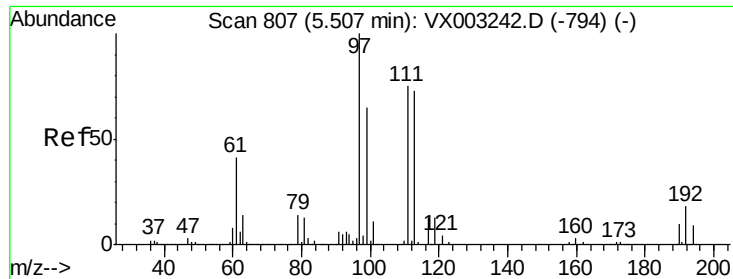
Tot Ion: 65 Resp: 186166
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX003329.D
 Acq: 11 Jul 2018 19:29

Tgt Ion: 114 Resp: 403722
 Ion Ratio Lower Upper
 114 100
 63 22.1 0.0 41.4
 88 15.0 0.0 30.0





#35

Dibromofluoromethane

Concen: 35.85 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX003329.D

Acq: 11 Jul 2018 19:29

Instrument :

MSVOA_X

ClientSampleId :

PB110983ZHE#03

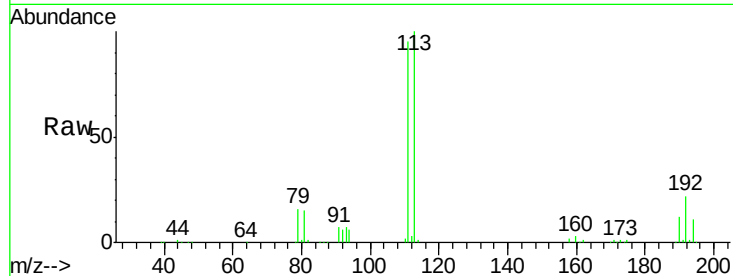
Tot Ion:113 Resp: 155492

Ion Ratio Lower Upper

113 100

111 101.3 81.4 122.0

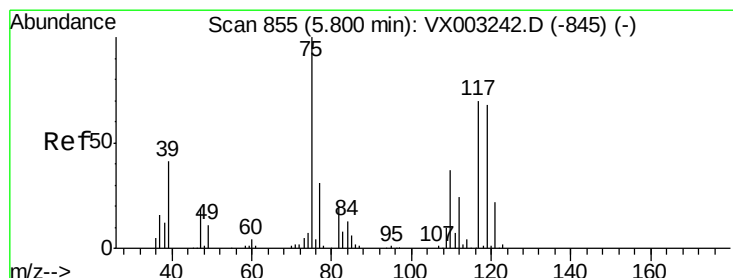
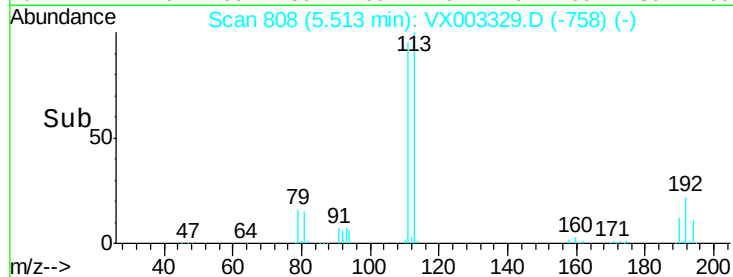
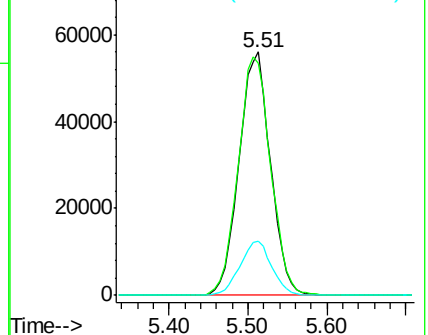
192 22.4 19.1 28.7



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: 3.18 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX003329.D

Acq: 11 Jul 2018 19:29

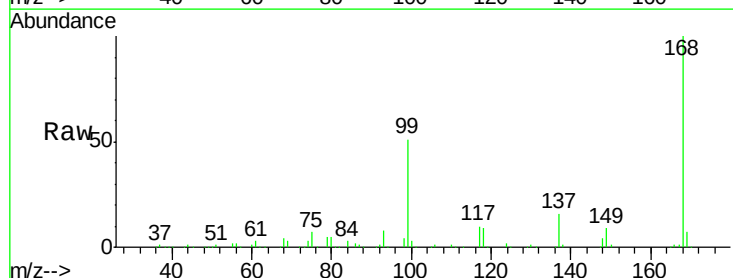
Tgt Ion: 75 Resp: 18163

Ion Ratio Lower Upper

75 100

110 10.2 18.1 54.4#

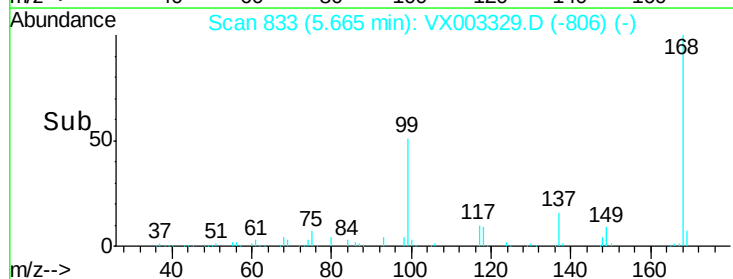
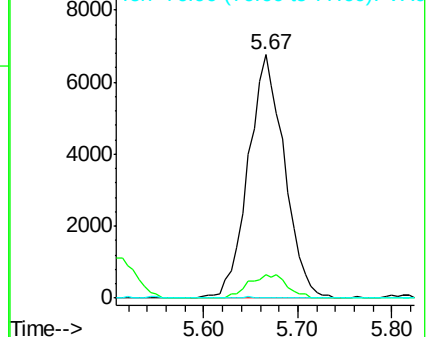
77 0.1 24.3 36.5#

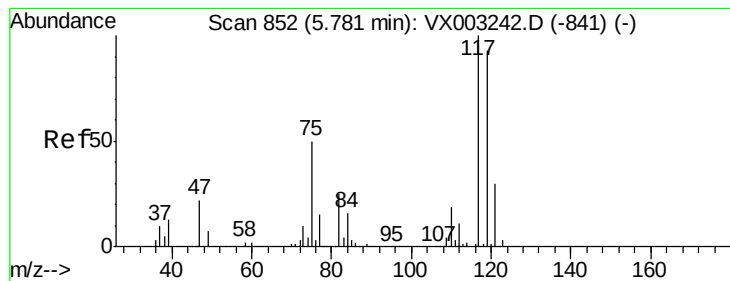


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 3.80 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003329.D

Acq: 11 Jul 2018 19:29

Instrument :

MSVOA_X

ClientSampleId :

PB110983ZHE#03

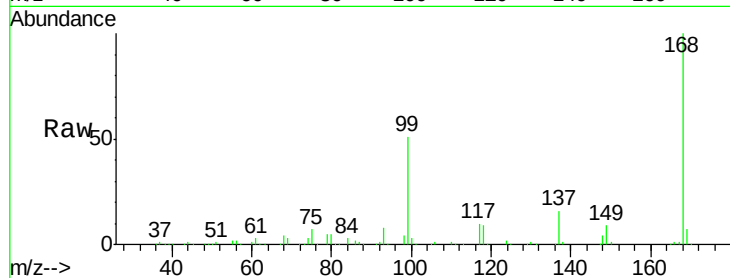
Tot Ion:117 Resp: 23728

Ion Ratio Lower Upper

117 100

119 4.3 77.4 116.0#

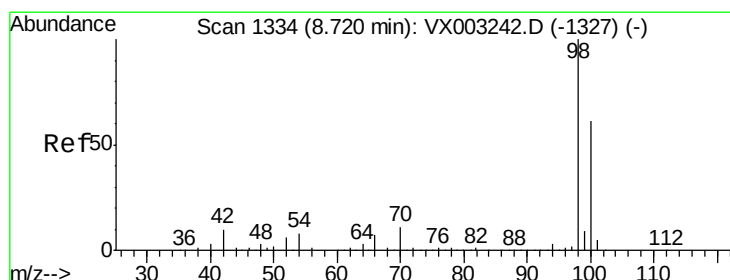
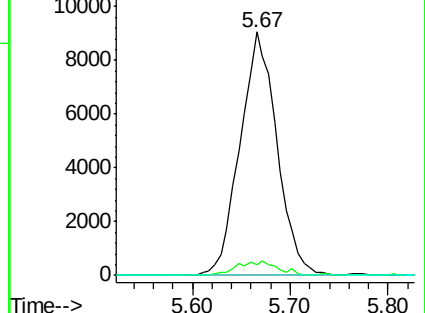
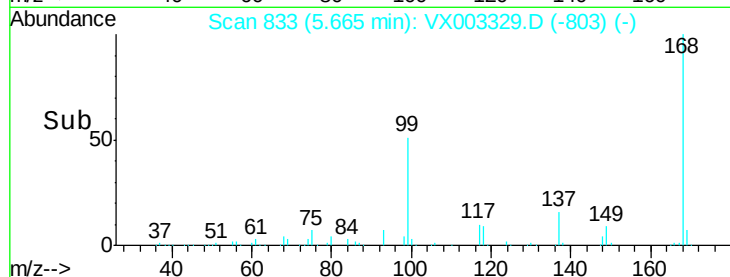
121 0.0 24.4 36.6#



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



#50

Toluene-d8

Concen: 38.35 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX003329.D

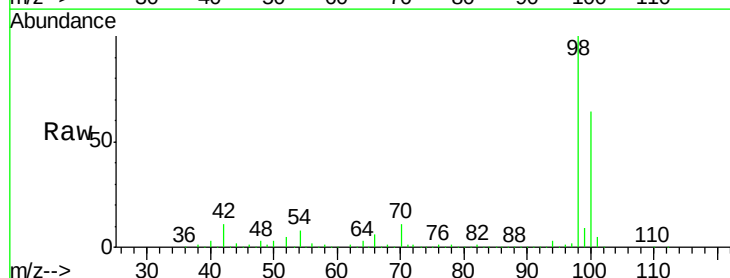
Acq: 11 Jul 2018 19:29

Tgt Ion: 98 Resp: 590825

Ion Ratio Lower Upper

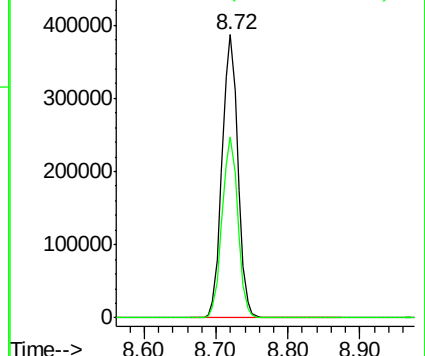
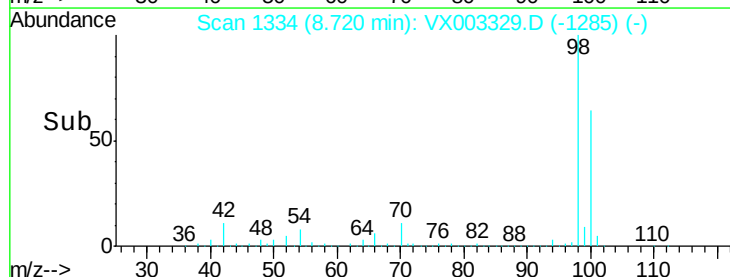
98 100

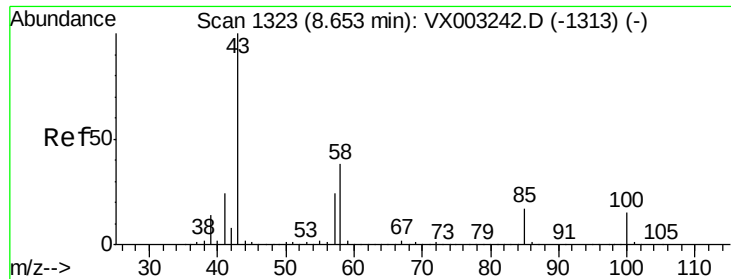
100 63.6 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.23 ug/l

RT: 8.66 min Scan# 1324

Delta R.T. -0.00 min

Lab File: VX003329.D

Acq: 11 Jul 2018 19:29

Instrument :

MSVOA_X

ClientSampleId :

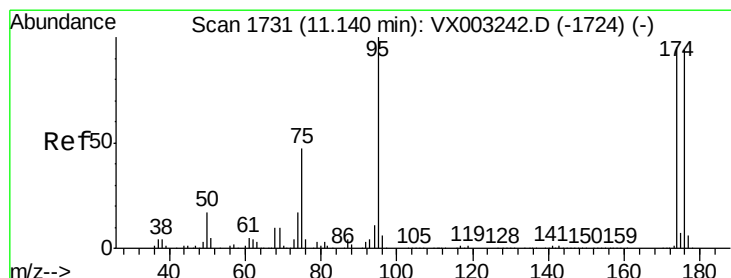
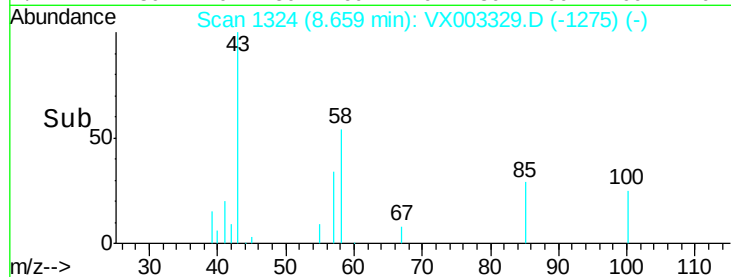
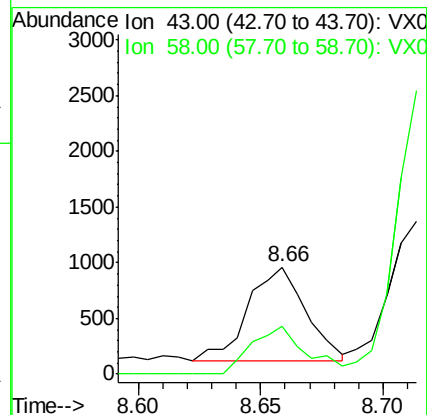
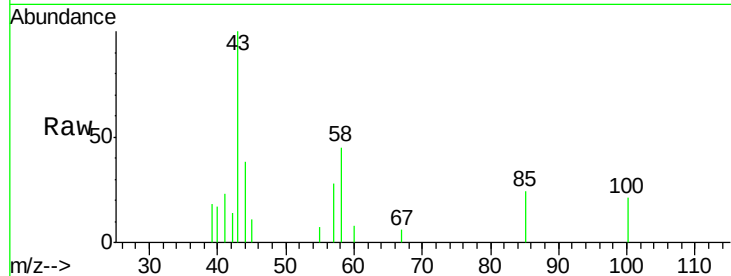
PB110983ZHE#03

Tot Ion: 43 Resp: 1380

Ion Ratio Lower Upper

43 100

58 48.4 28.6 42.8#



#62

4-Bromofluorobenzene

Concen: 35.71 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX003329.D

Acq: 11 Jul 2018 19:29

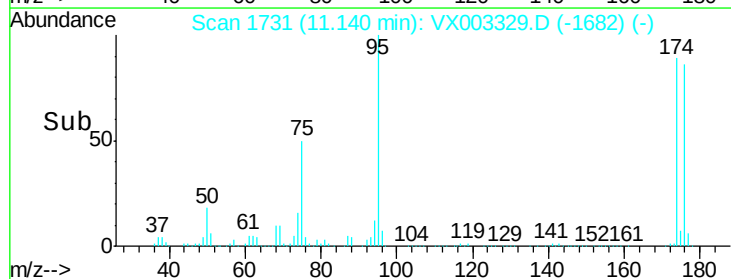
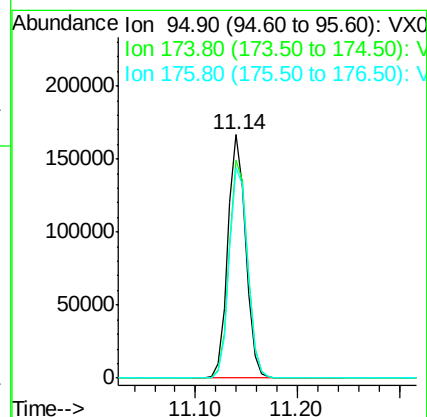
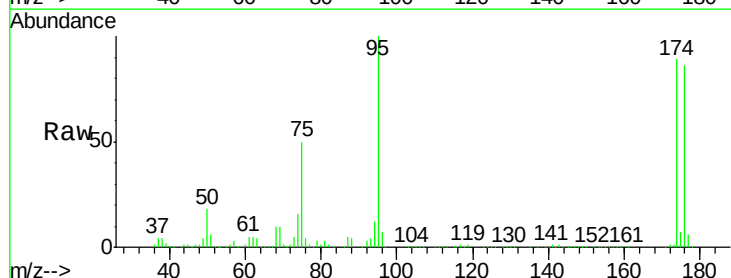
Tgt Ion: 95 Resp: 203272

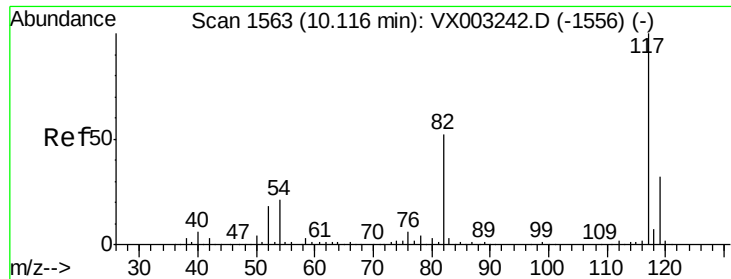
Ion Ratio Lower Upper

95 100

174 91.9 0.0 187.4

176 89.1 0.0 181.0

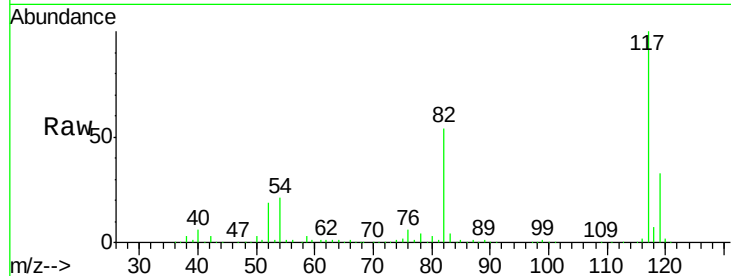




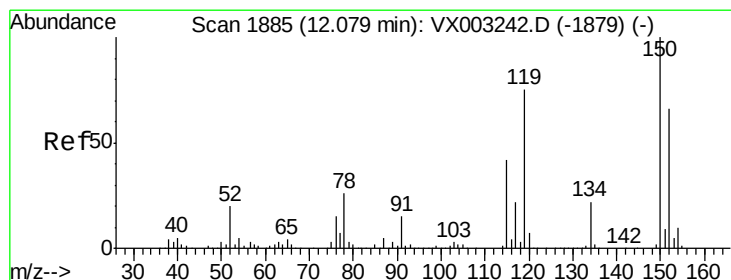
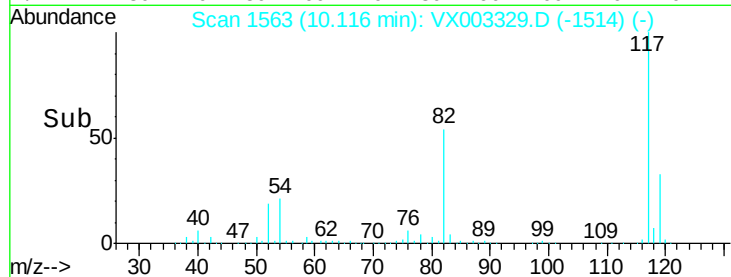
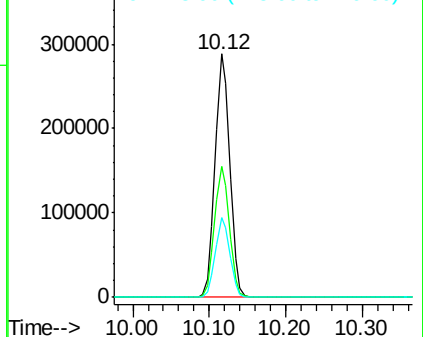
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX003329.D
Acq: 11 Jul 2018 19:29

Instrument :
MSVOA_X
ClientSampleId :
PB110983ZHE#03

Tot Ion:117 Resp: 386607
Ion Ratio Lower Upper
117 100
82 54.0 45.0 67.4
119 32.5 25.8 38.6

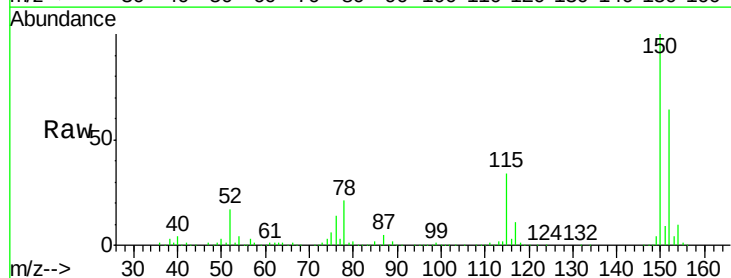


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

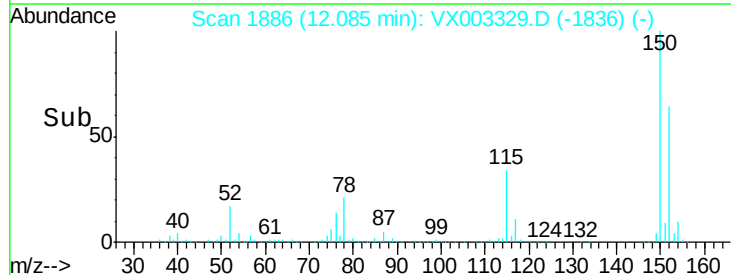
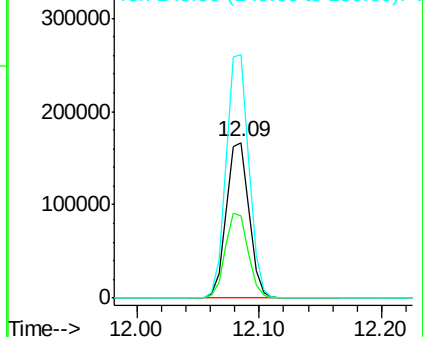


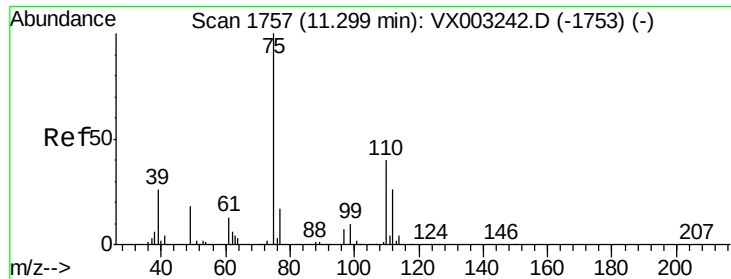
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. 0.01 min
Lab File: VX003329.D
Acq: 11 Jul 2018 19:29

Tgt Ion:152 Resp: 212948
Ion Ratio Lower Upper
152 100
115 55.0 40.1 120.2
150 156.6 0.0 347.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 21.89 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003329.D

Acq: 11 Jul 2018 19:29

Instrument :

MSVOA_X

ClientSampleId :

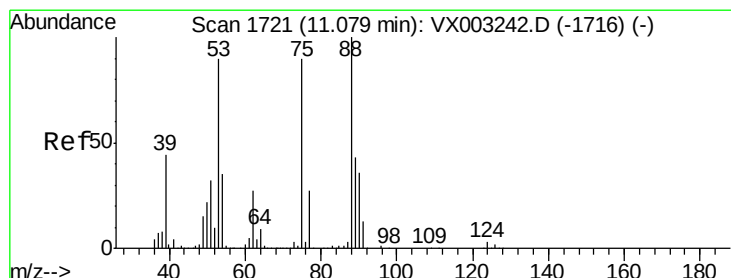
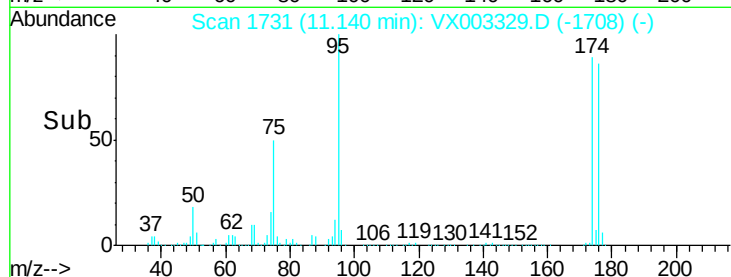
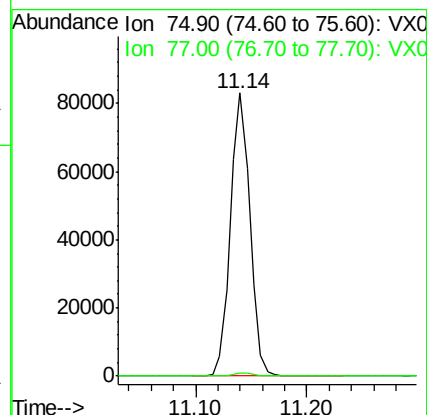
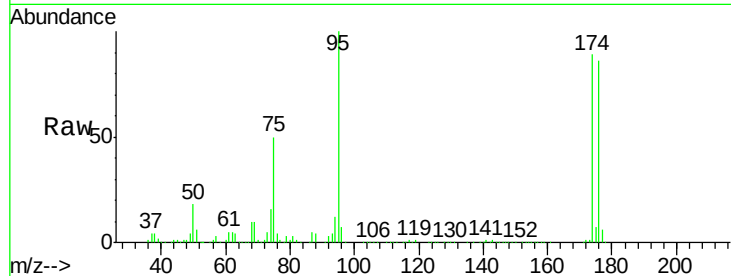
PB110983ZHE#03

Tot Ion: 75 Resp: 100724

Ion Ratio Lower Upper

75 100

77 1.3 22.8 68.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 71.53 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003329.D

Acq: 11 Jul 2018 19:29

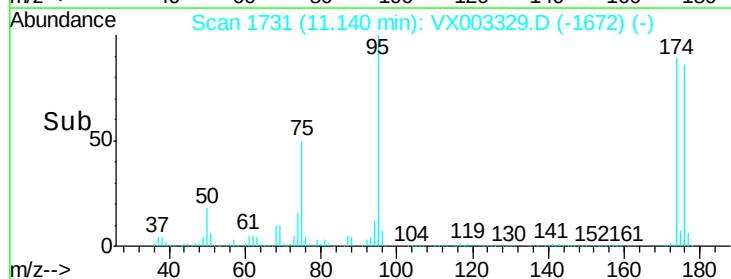
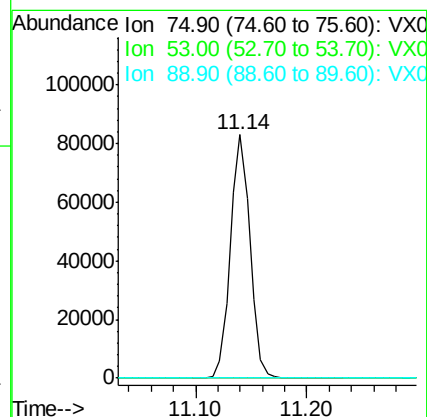
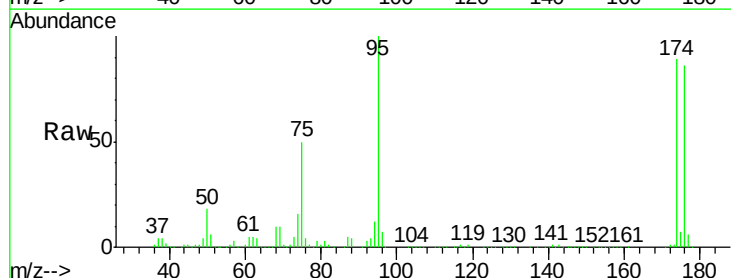
Tgt Ion: 75 Resp: 100724

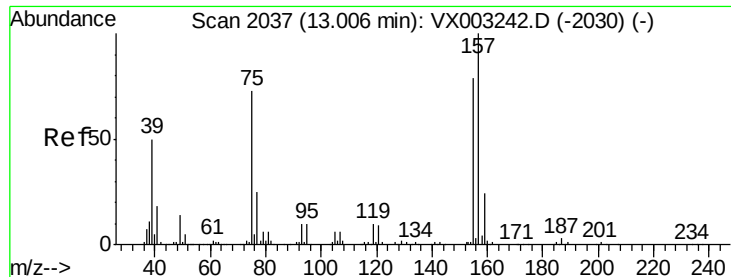
Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

89 0.0 38.2 57.2#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.25 ug/l

RT: 12.98 min Scan# 2032

Delta R.T. -0.03 min

Lab File: VX003329.D

Acq: 11 Jul 2018 19:29

Instrument :

MSVOA_X

ClientSampleId :

PB110983ZHE#03

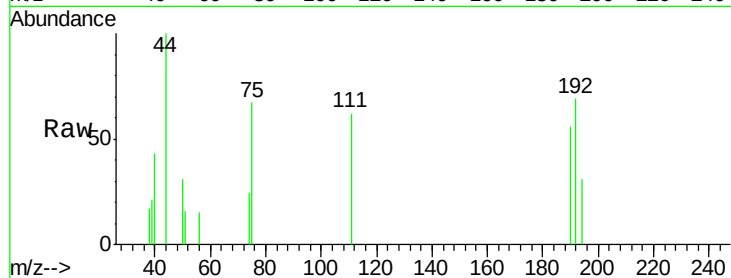
Tot Ion: 75 Resp: 281

Ion Ratio Lower Upper

75 100

155 0.0 45.8 137.4#

157 0.0 60.1 180.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

12.98

300

200

100

0

12.95

13.00

Time-->

