

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071118\
 Data File : VX003326.D
 Acq On : 11 Jul 2018 18:09
 Operator : JC/MD
 Sample : PB110983TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB110983TB

Quant Time: Jul 12 00:57:07 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	255039	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	381092	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	358429	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	198396	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	172733	43.04	ug/l	0.00
Spiked Amount			Recovery	=	86.08%	
35) Dibromofluoromethane	5.51	113	145991	35.66	ug/l	0.00
Spiked Amount			Recovery	=	71.32%	
50) Toluene-d8	8.72	98	553189	38.04	ug/l	0.00
Spiked Amount			Recovery	=	76.08%	
62) 4-Bromofluorobenzene	11.14	95	190712	35.49	ug/l	0.00
Spiked Amount			Recovery	=	70.98%	

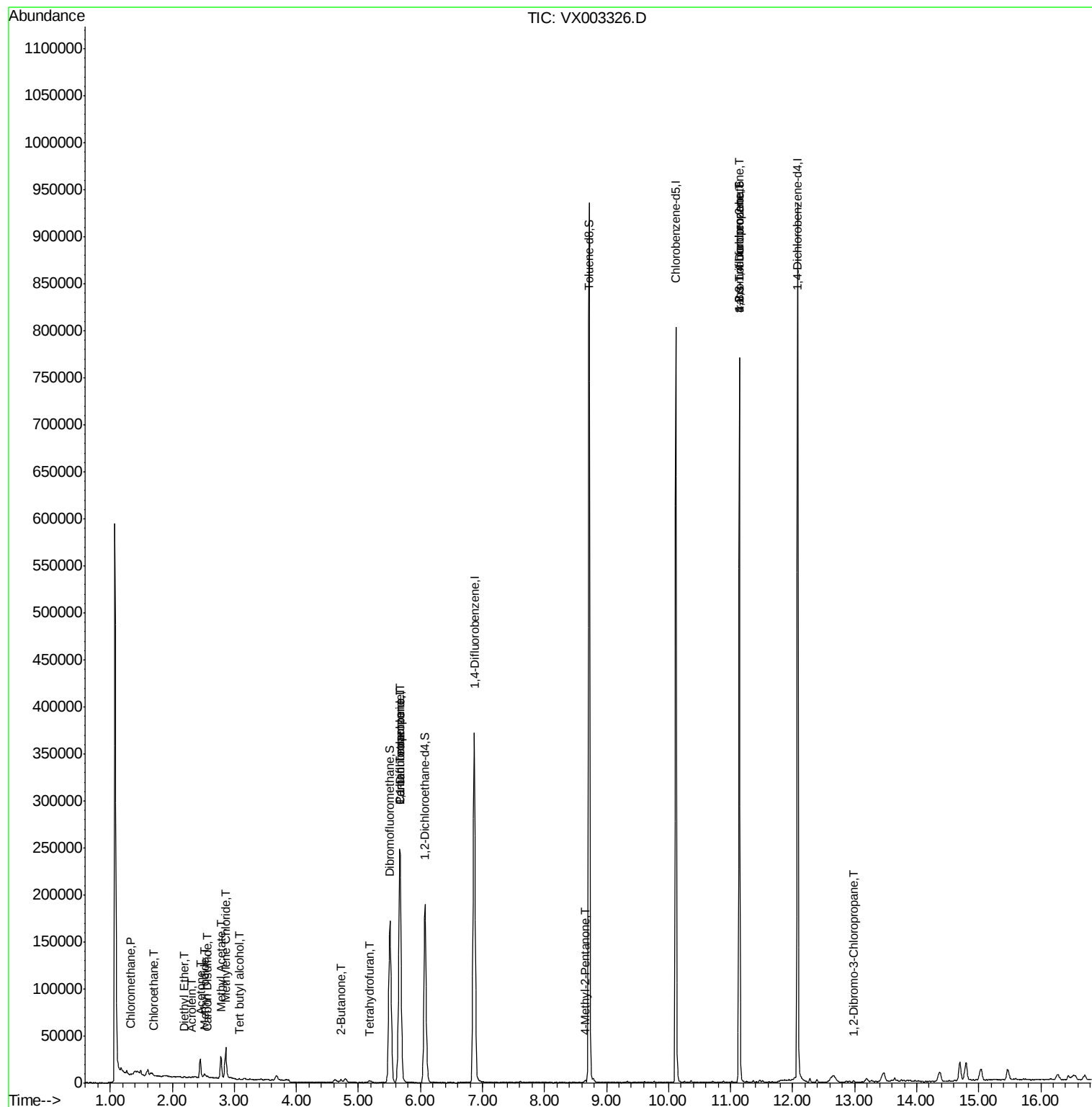
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	890	0.25	ug/l	# 83
5) Bromomethane	1.65	94	2286	Below	Cal	87
6) Chloroethane	1.70	64	447	0.22	ug/l	# 51
8) Diethyl Ether	2.19	74	428	0.22	ug/l	96
10) Methyl Iodide	2.52	142	4628	6.83	ug/l	97
11) Tert butyl alcohol	3.08	59	401	0.55	ug/l	# 87
13) Acrolein	2.30	56	317	0.54	ug/l	96
16) Acetone	2.45	43	22693	15.93	ug/l	91
17) Carbon Disulfide	2.57	76	2217	0.28	ug/l	# 81
18) Methyl Acetate	2.78	43	27157	6.76	ug/l	94
20) Methylene Chloride	2.86	84	15851	4.79	ug/l	94
25) 2-Butanone	4.72	43	4633	1.84	ug/l	93
29) Tetrahydrofuran	5.18	42	1977	1.21	ug/l	# 93
36) 1,1-Dichloropropene	5.67	75	17574	3.26	ug/l	# 49
38) Carbon Tetrachloride	5.67	117	23651	4.01	ug/l	# 16
51) 4-Methyl-2-Pentanone	8.65	43	1877	0.32	ug/l	96
76) 1,2,3-Trichloropropane	11.14	75	94581	22.06	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	94581	72.10	ug/l	# 7
92) 1,2-Dibromo-3-Chloropropan	12.98	75	295	0.28	ug/l	# 1

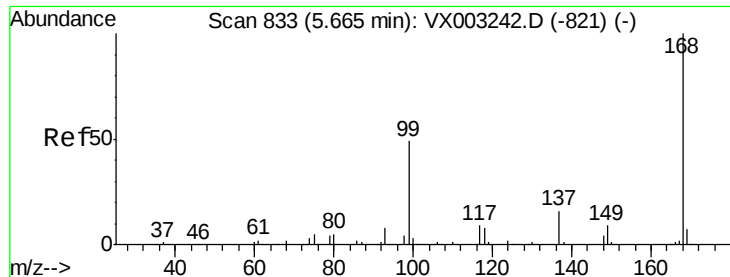
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Jul 09 15:24:16 2018
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX003326.D

Acq: 11 Jul 2018 18:09

Instrument :

MSVOA_X

ClientSampleId :

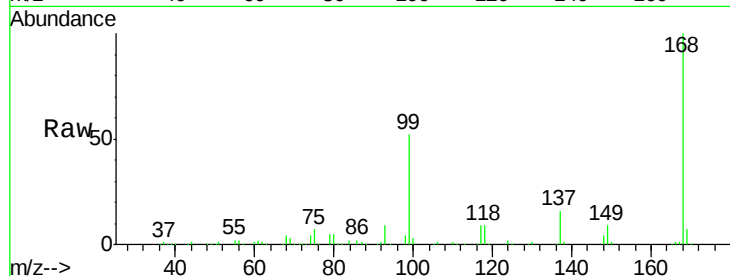
PB110983TB

Tot Ion:168 Resp: 255039

Ion Ratio Lower Upper

168 100

99 52.0 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

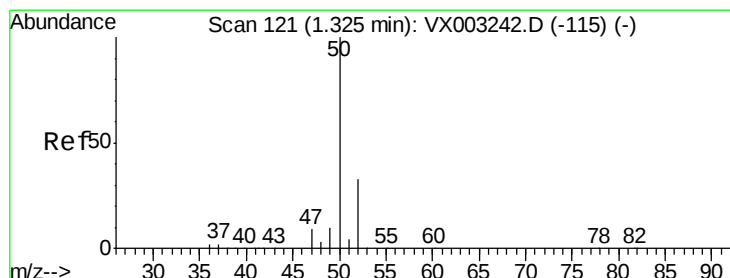
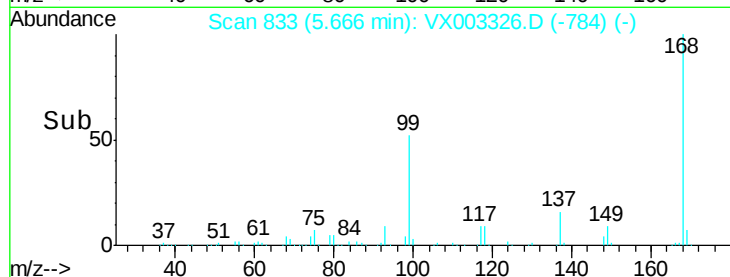
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.25 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003326.D

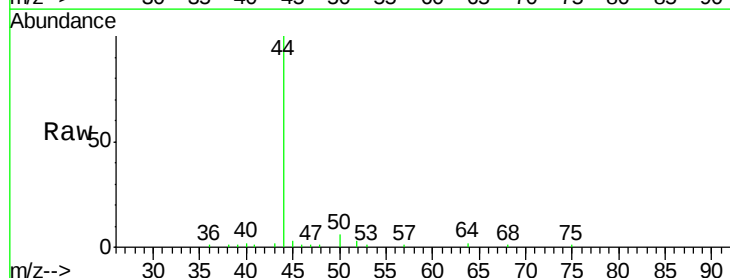
Acq: 11 Jul 2018 18:09

Tgt Ion: 50 Resp: 890

Ion Ratio Lower Upper

50 100

52 41.9 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

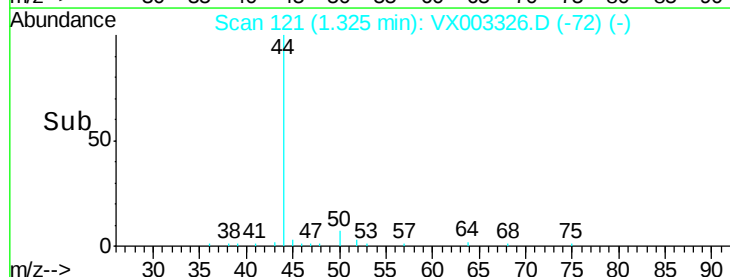
300

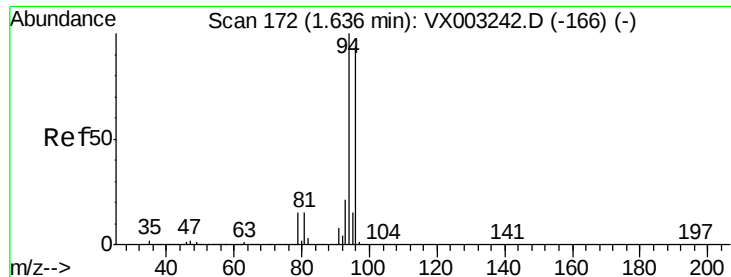
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003326.D

Acq: 11 Jul 2018 18:09

Instrument :

MSVOA_X

ClientSampleId :

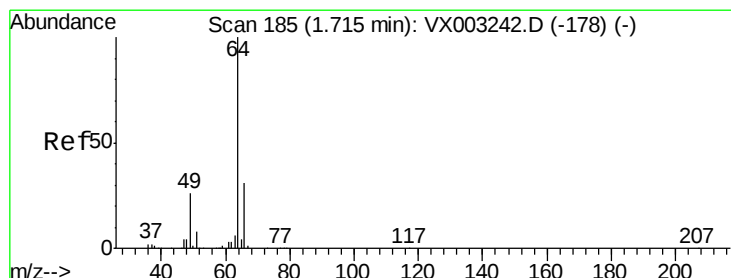
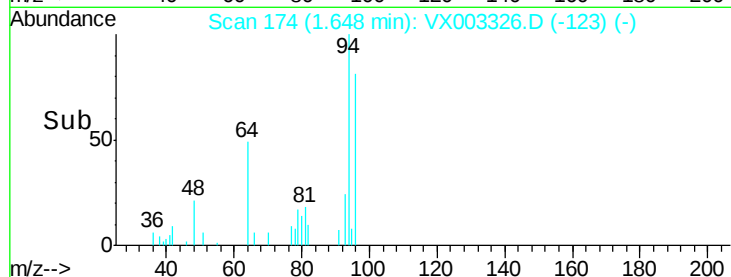
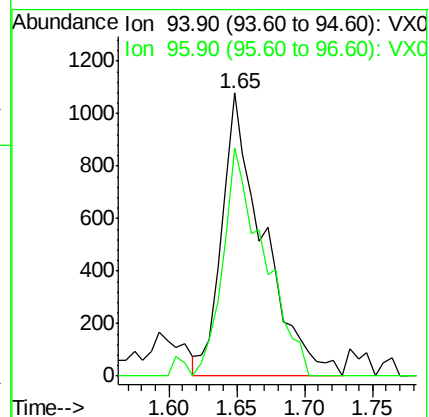
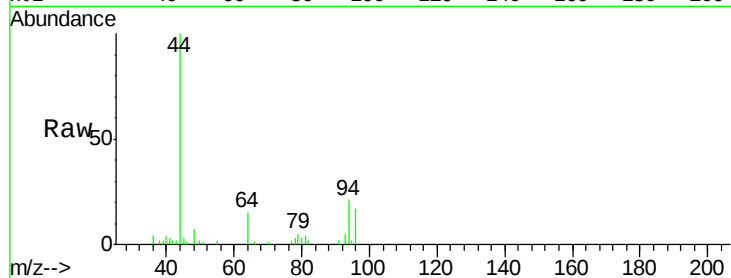
PB110983TB

Tot Ion: 94 Resp: 2286

Ion Ratio Lower Upper

94 100

96 80.8 74.9 112.3



#6

Chloroethane

Concen: 0.22 ug/l

RT: 1.70 min Scan# 183

Delta R.T. -0.01 min

Lab File: VX003326.D

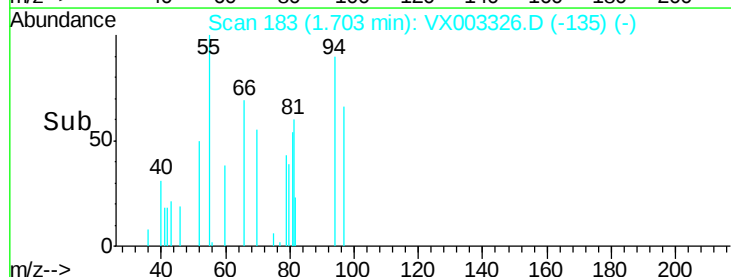
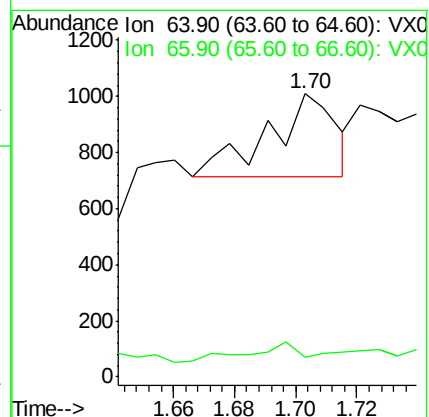
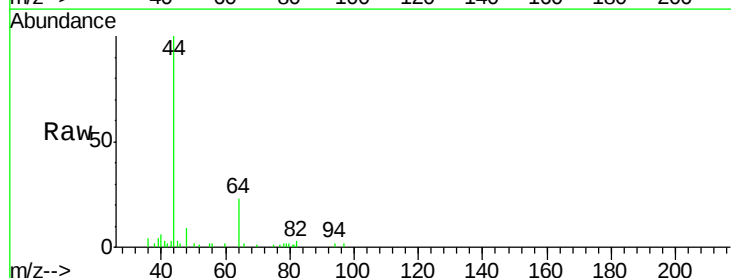
Acq: 11 Jul 2018 18:09

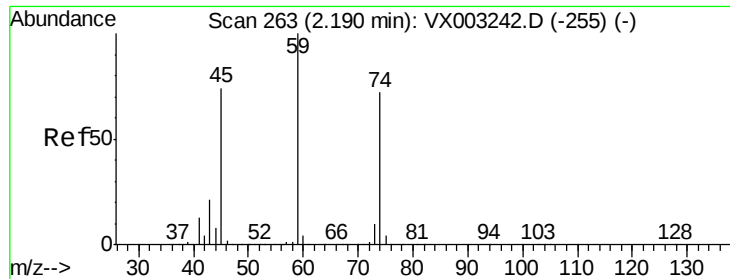
Tgt Ion: 64 Resp: 447

Ion Ratio Lower Upper

64 100

66 4.4 25.5 38.3#

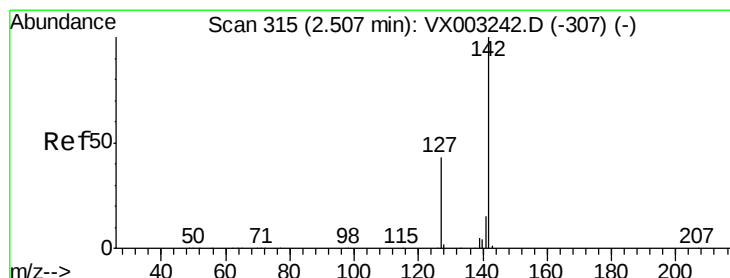
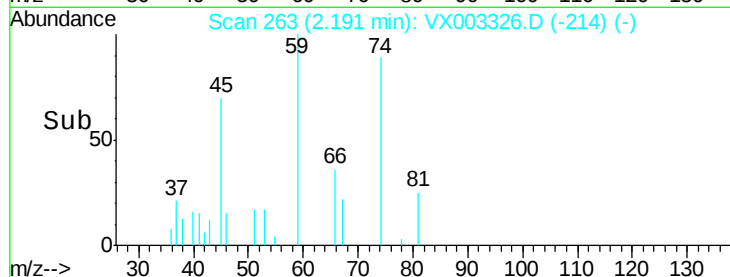
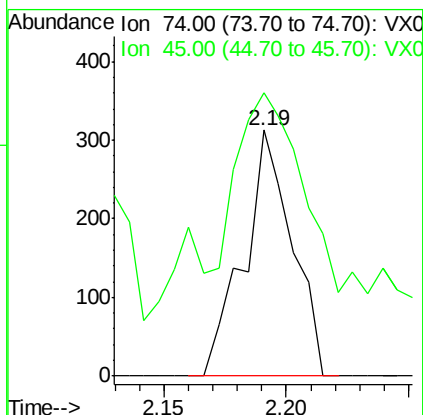
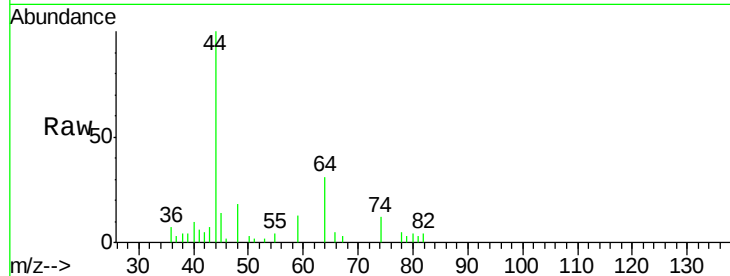




#8
Diethyl Ether
Concen: 0.22 ug/l
RT: 2.19 min Scan# 263
Delta R.T. 0.00 min
Lab File: VX003326.D
Acq: 11 Jul 2018 18:09

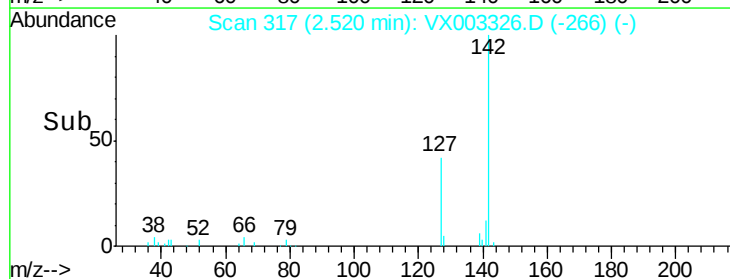
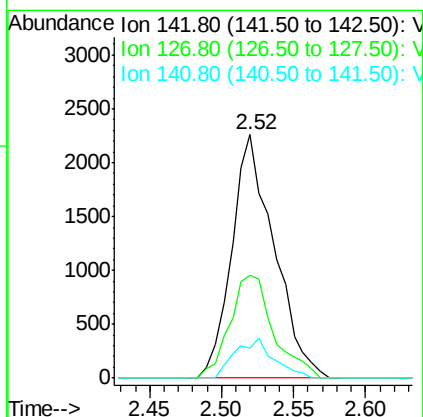
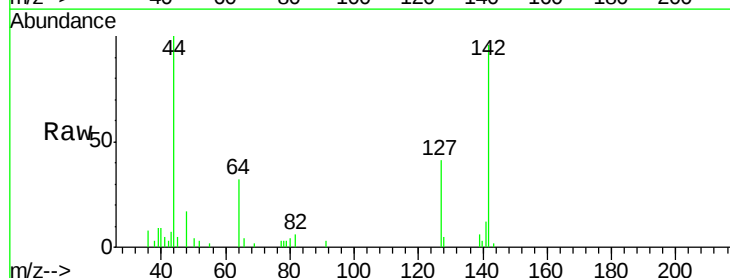
Instrument :
MSVOA_X
ClientSampleId :
PB110983TB

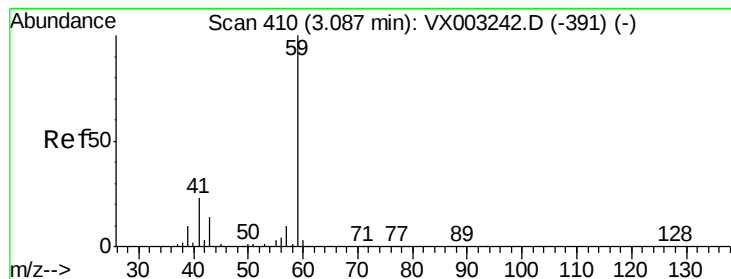
Tot Ion: 74 Resp: 428
Ion Ratio Lower Upper
74 100
45 110.3 53.1 159.4



#10
Methyl Iodide
Concen: 6.83 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX003326.D
Acq: 11 Jul 2018 18:09

Tgt Ion: 142 Resp: 4628
Ion Ratio Lower Upper
142 100
127 43.6 36.6 55.0
141 15.0 11.3 16.9



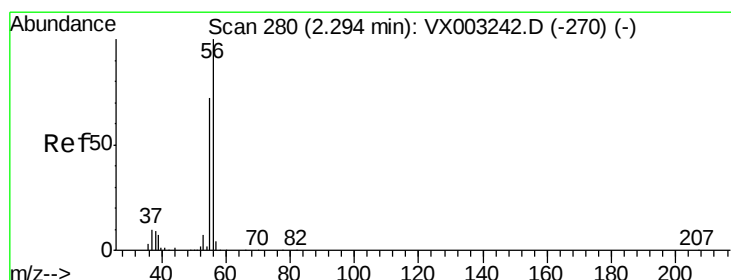
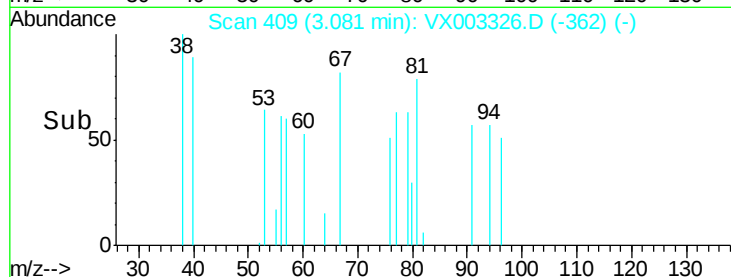
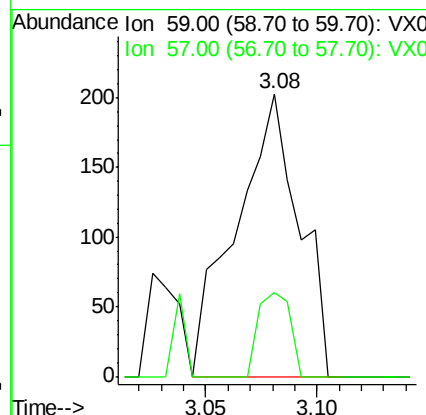
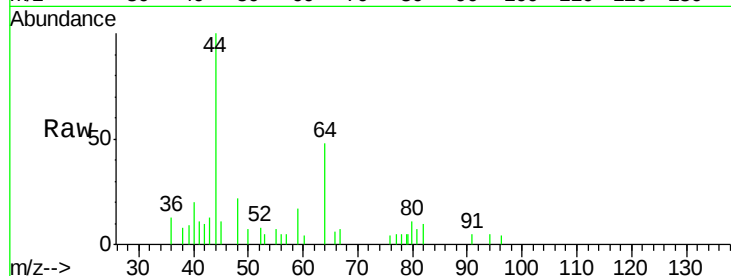


#11

Tert butyl alcohol
Concen: 0.55 ug/l
RT: 3.08 min Scan# 409
Delta R.T. -0.01 min
Lab File: VX003326.D
Acq: 11 Jul 2018 18:09

Instrument :
MSVOA_X
ClientSampled :
PB110983TB

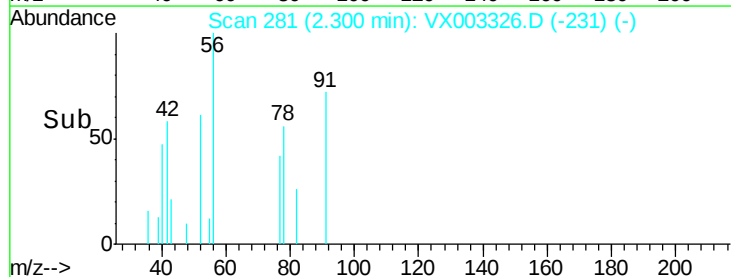
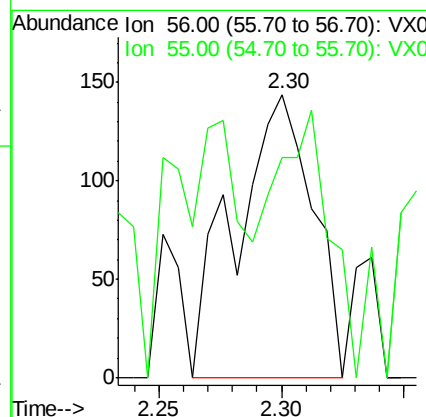
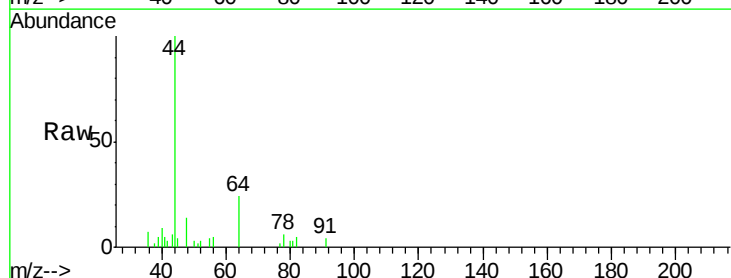
Tot Ion: 59 Resp: 401
Ion Ratio Lower Upper
59 100
57 15.2 8.2 12.2#

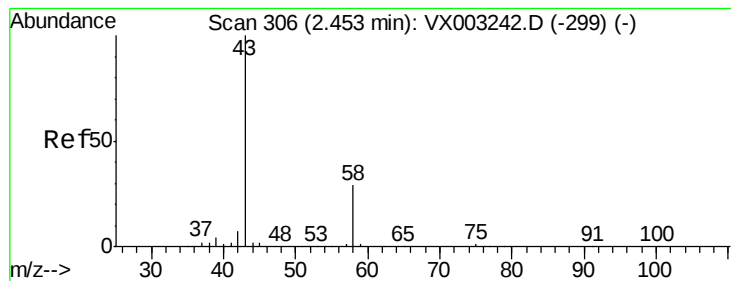


#13

Acrolein
Concen: 0.54 ug/l
RT: 2.30 min Scan# 281
Delta R.T. 0.01 min
Lab File: VX003326.D
Acq: 11 Jul 2018 18:09

Tgt Ion: 56 Resp: 317
Ion Ratio Lower Upper
56 100
55 67.8 57.0 85.4





#16

Acetone

Concen: 15.93 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX003326.D

Acq: 11 Jul 2018 18:09

Instrument :

MSVOA_X

ClientSampleId :

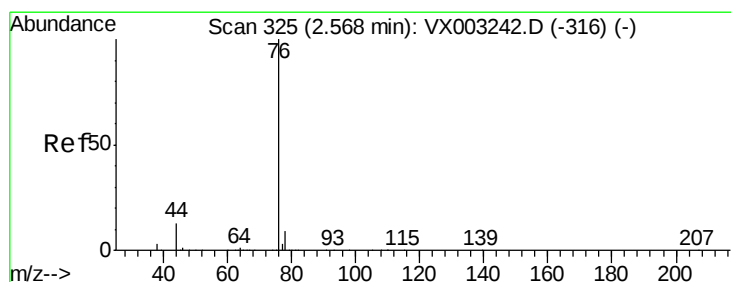
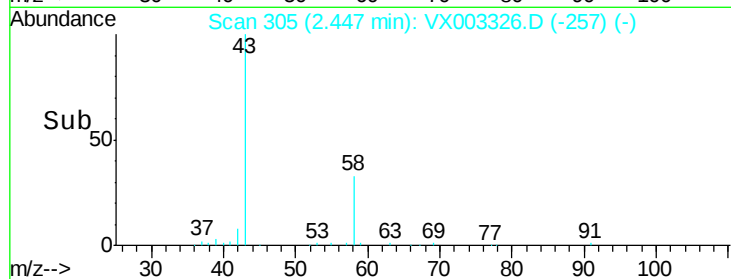
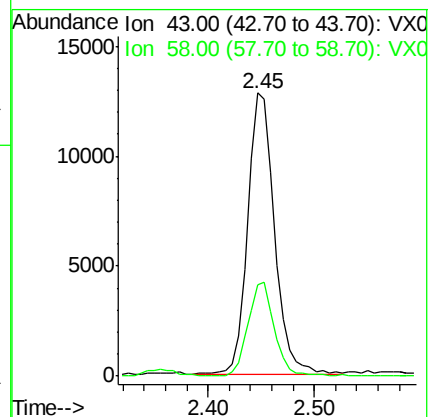
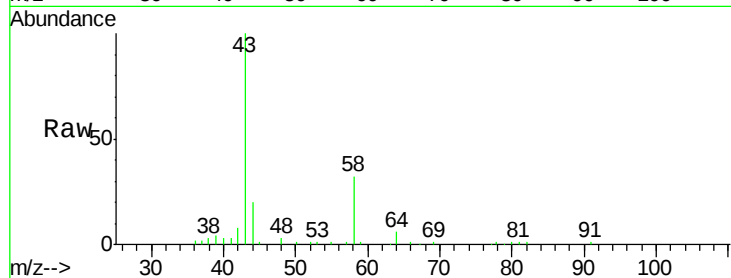
PB110983TB

Tot Ion: 43 Resp: 22693

Ion Ratio Lower Upper

43 100

58 32.1 22.1 33.1



#17

Carbon Disulfide

Concen: 0.28 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.01 min

Lab File: VX003326.D

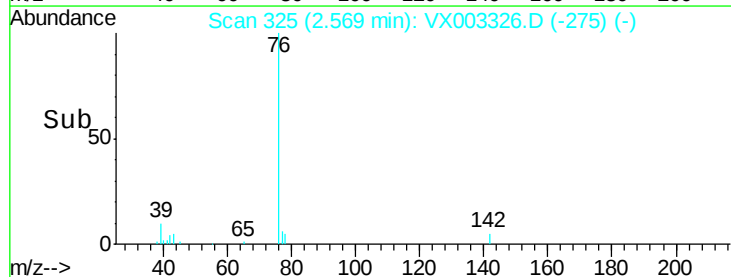
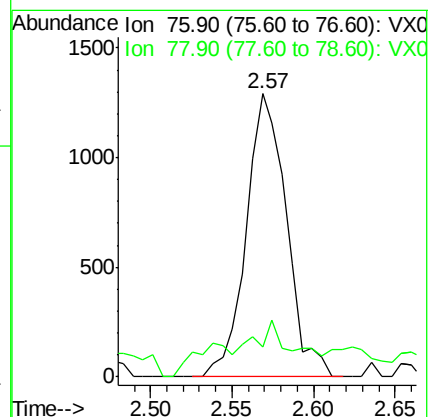
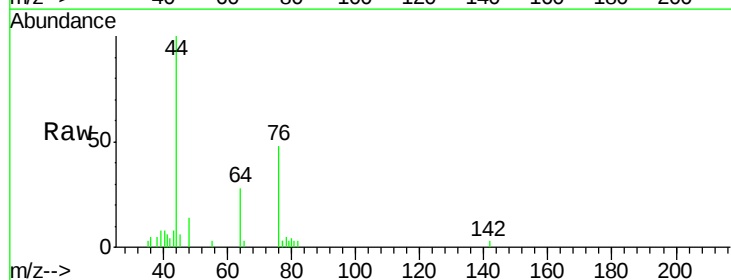
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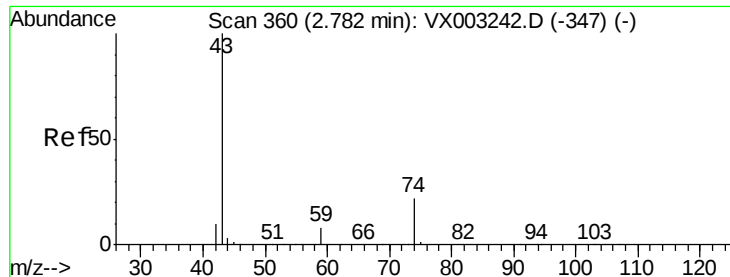
Tgt Ion: 76 Resp: 2217

Ion Ratio Lower Upper

76 100

78 1.8 6.9 10.3#

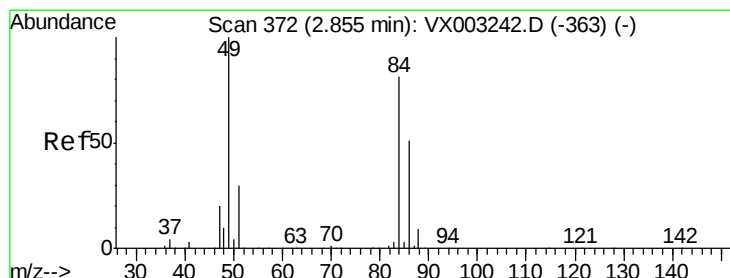
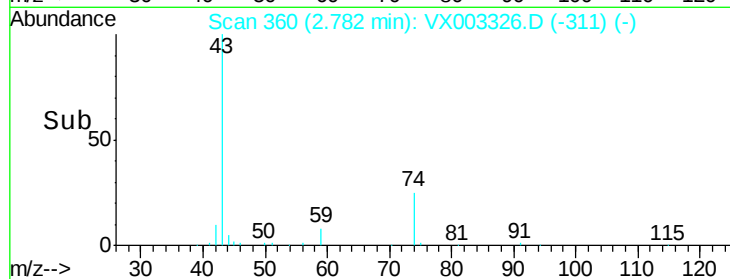
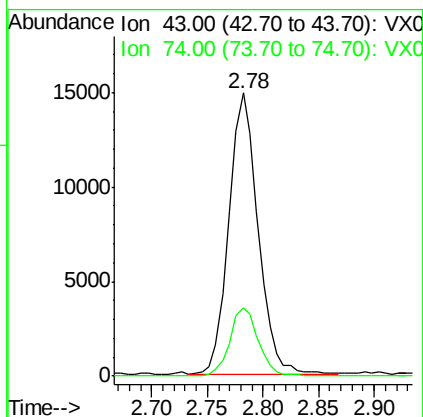
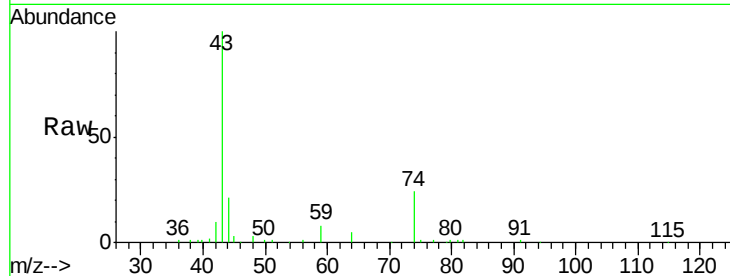




#18
Methyl Acetate
Concen: 6.76 ug/l
RT: 2.78 min Scan# 360
Delta R.T. 0.00 min
Lab File: VX003326.D
Acq: 11 Jul 2018 18:09

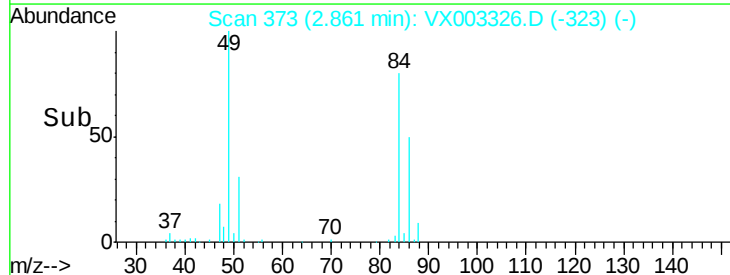
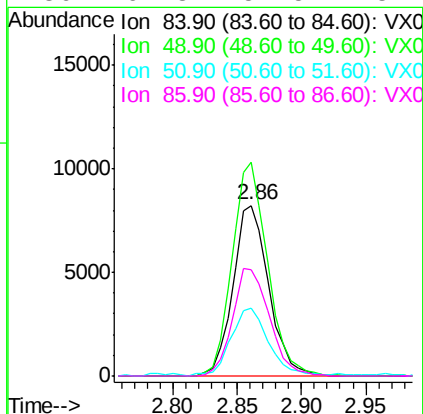
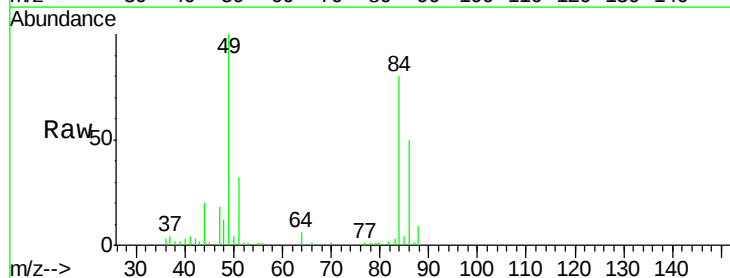
Instrument :
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ClientSampled :
PB110983TB

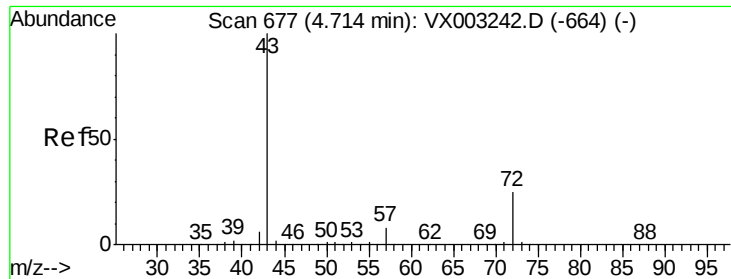
Tot Ion: 43 Resp: 27157
Ion Ratio Lower Upper
43 100
74 23.6 16.7 25.1



#20
Methylene Chloride
Concen: 4.79 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX003326.D
Acq: 11 Jul 2018 18:09

Tgt Ion: 84 Resp: 15851
Ion Ratio Lower Upper
84 100
49 125.5 107.8 161.6
51 39.5 32.8 49.2
86 62.8 52.5 78.7





#25

2-Butanone

Concen: 1.84 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX003326.D

Acq: 11 Jul 2018 18:09

Instrument :

MSVOA_X

ClientSampled :

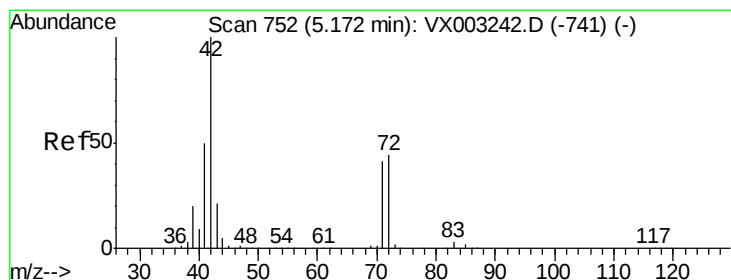
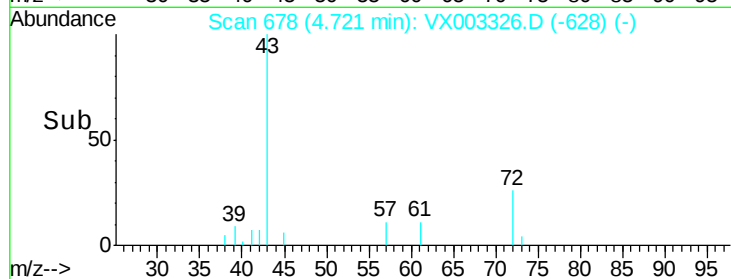
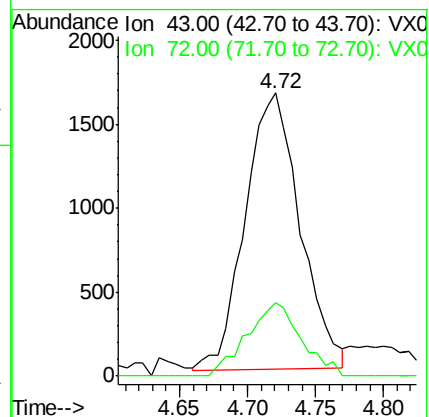
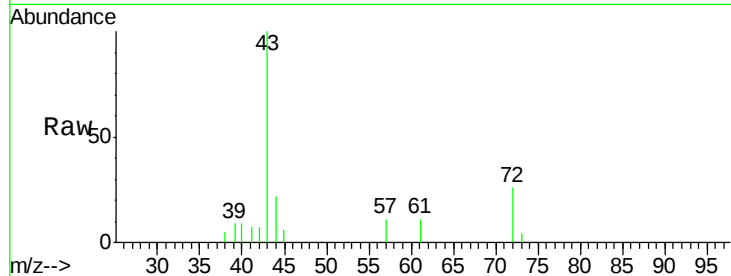
PB110983TB

Tot Ion: 43 Resp: 4633

Ion Ratio Lower Upper

43 100

72 26.6 18.5 27.7



#29

Tetrahydrofuran

Concen: 1.21 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX003326.D

Acq: 11 Jul 2018 18:09

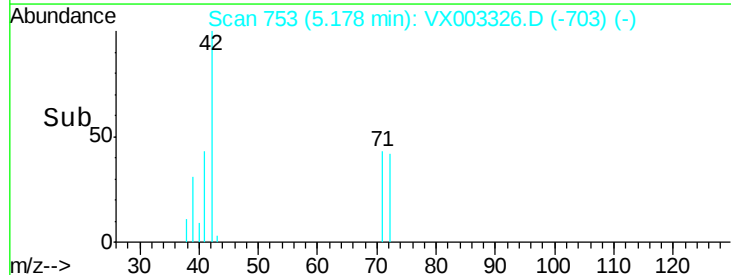
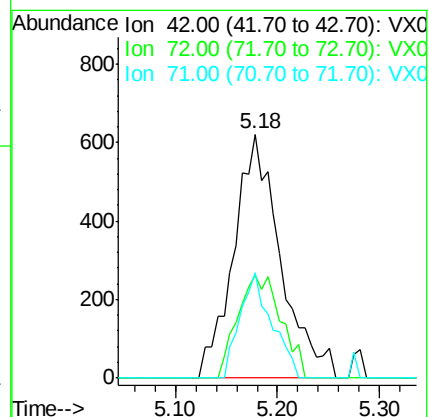
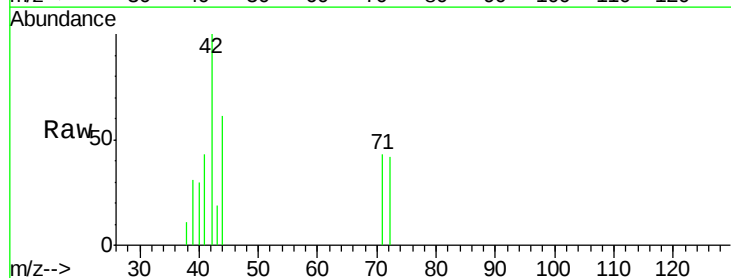
Tgt Ion: 42 Resp: 1977

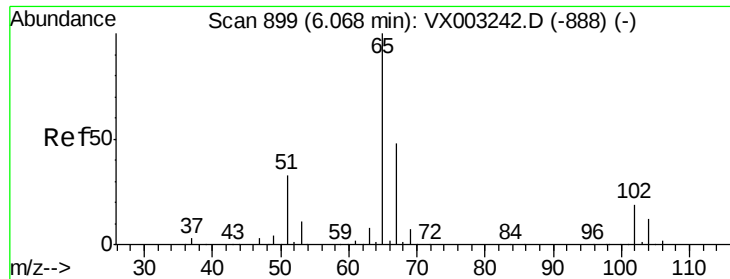
Ion Ratio Lower Upper

42 100

72 39.4 32.0 48.0

71 29.3 30.1 45.1#

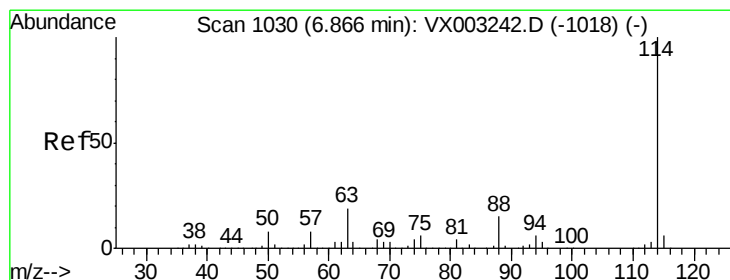
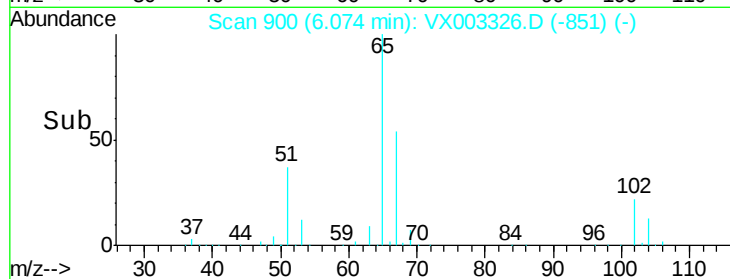
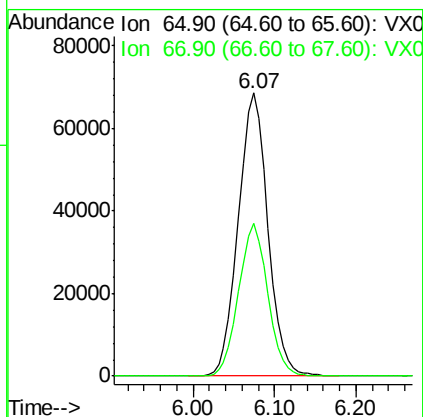
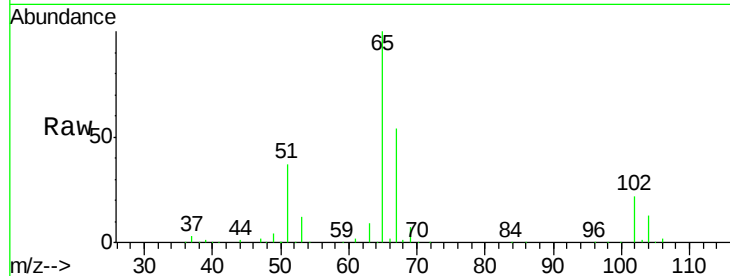




#33
 1,2-Dichloroethane-d4
 Concen: 43.04 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX003326.D
 Acq: 11 Jul 2018 18:09

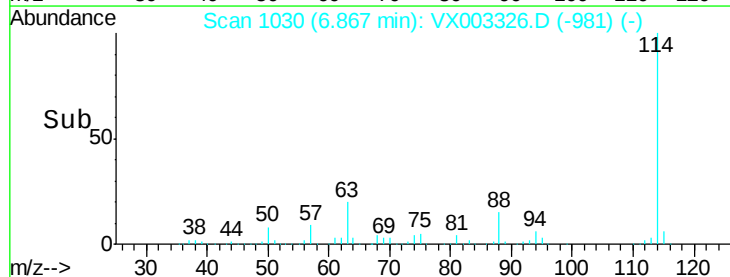
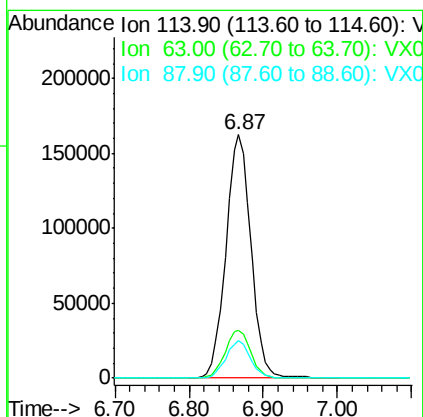
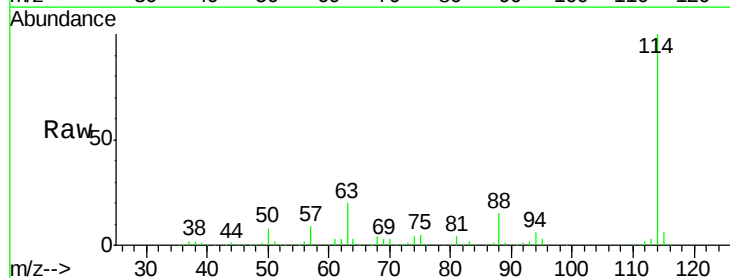
Instrument :
 MSVOA_X
 ClientSampleId :
 PB110983TB

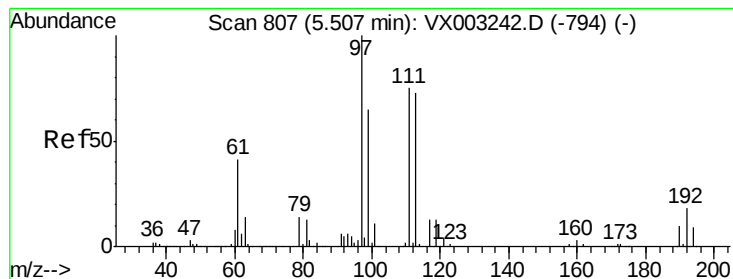
Tot Ion: 65 Resp: 172733
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX003326.D
 Acq: 11 Jul 2018 18:09

Tgt Ion: 114 Resp: 381092
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 41.4
 88 15.3 0.0 30.0





#35

Dibromofluoromethane

Concen: 35.66 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003326.D

Acq: 11 Jul 2018 18:09

Instrument :

MSVOA_X

ClientSampleId :

PB110983TB

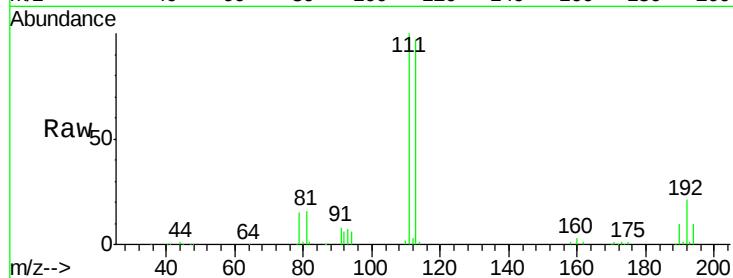
Tot Ion:113 Resp: 145991

Ion Ratio Lower Upper

113 100

111 101.9 81.4 122.0

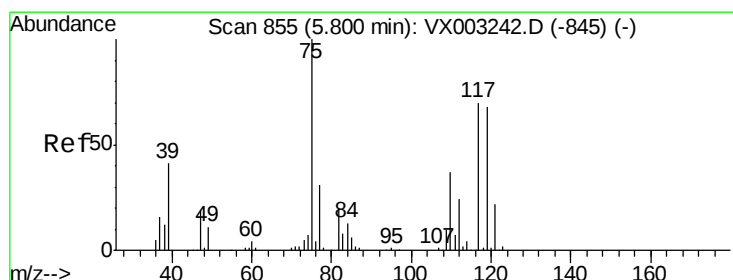
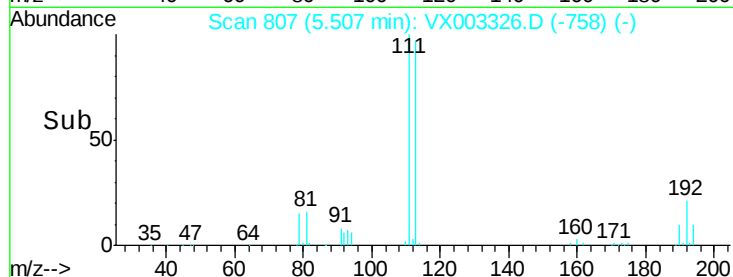
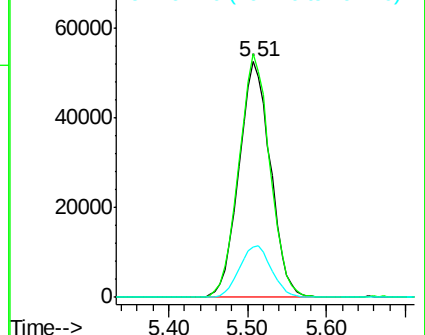
192 22.3 19.1 28.7



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: 3.26 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX003326.D

Acq: 11 Jul 2018 18:09

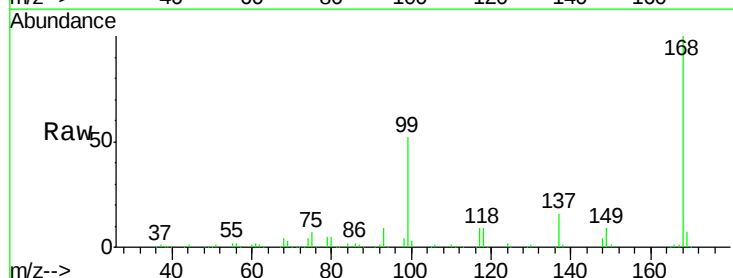
Tgt Ion: 75 Resp: 17574

Ion Ratio Lower Upper

75 100

110 8.9 18.1 54.4#

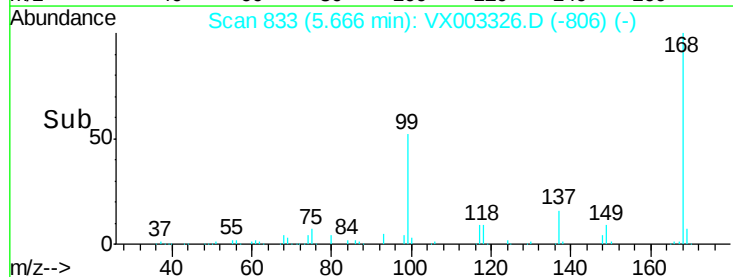
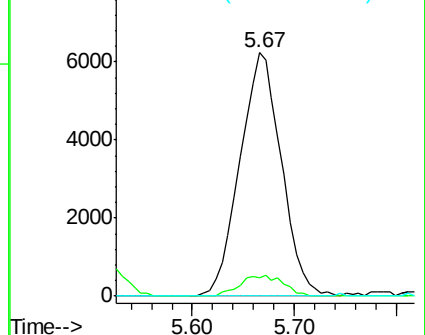
77 0.0 24.3 36.5#

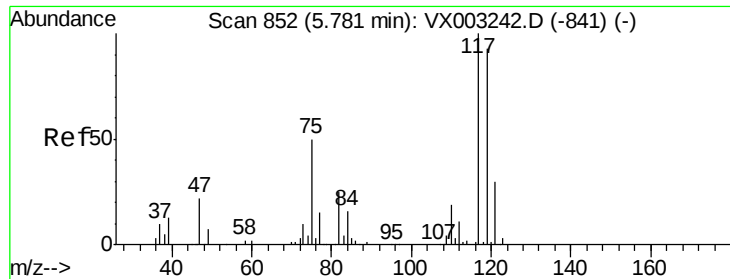


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 4.01 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003326.D

Acq: 11 Jul 2018 18:09

Instrument :

MSVOA_X

ClientSampled :

PB110983TB

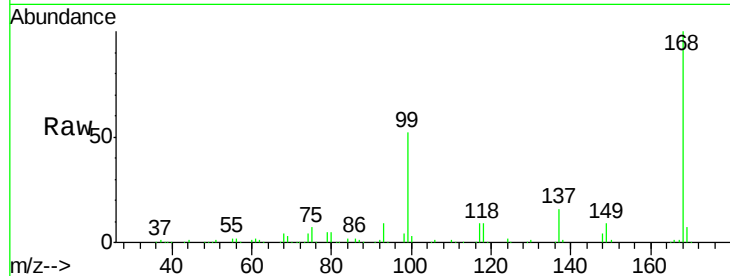
Tot Ion:117 Resp: 23651

Ion Ratio Lower Upper

117 100

119 5.1 77.4 116.0#

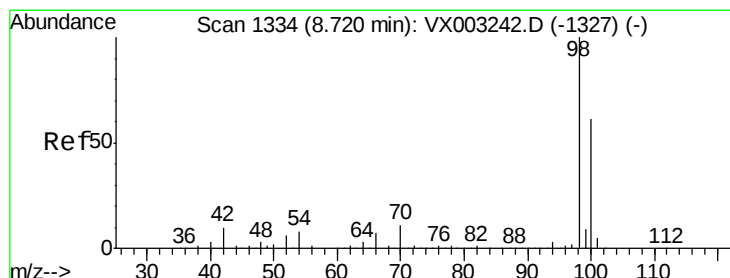
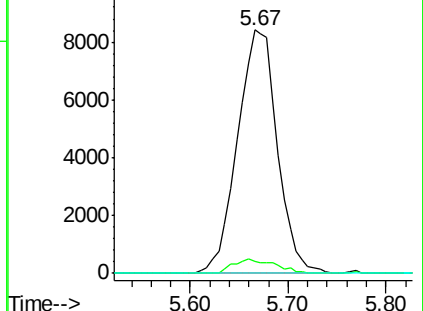
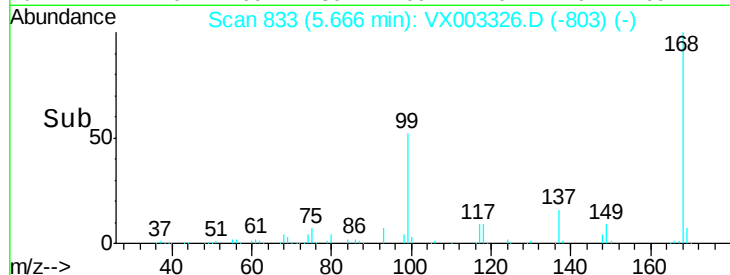
121 0.0 24.4 36.6#



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: 38.04 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003326.D

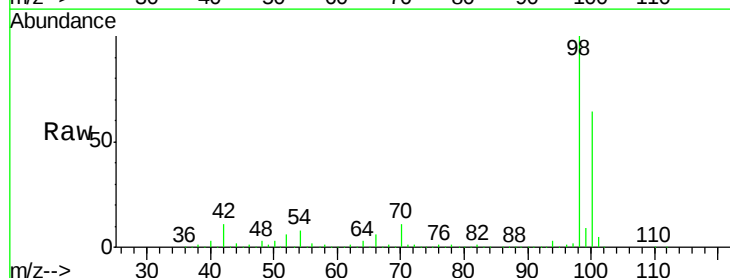
Acq: 11 Jul 2018 18:09

Tgt Ion: 98 Resp: 553189

Ion Ratio Lower Upper

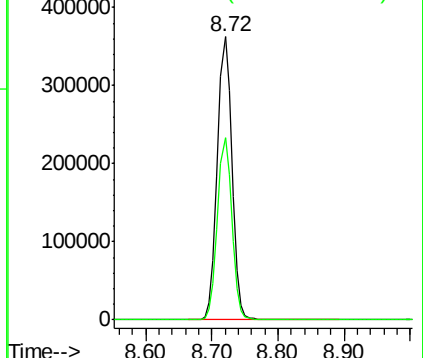
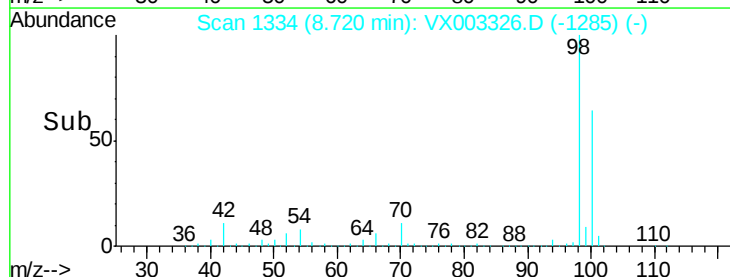
98 100

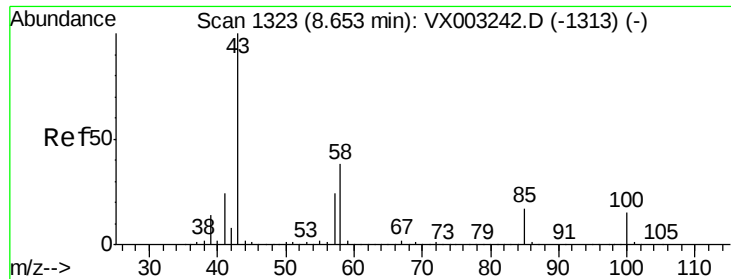
100 63.4 50.9 76.3



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: 0.32 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. -0.01 min

Lab File: VX003326.D

Acq: 11 Jul 2018 18:09

Instrument :

MSVOA_X

ClientSampled :

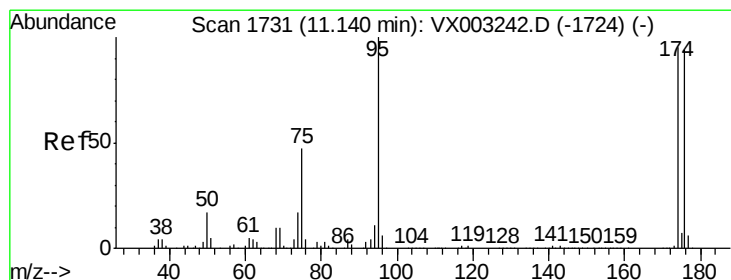
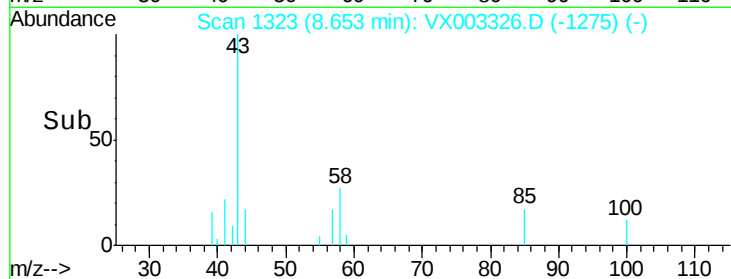
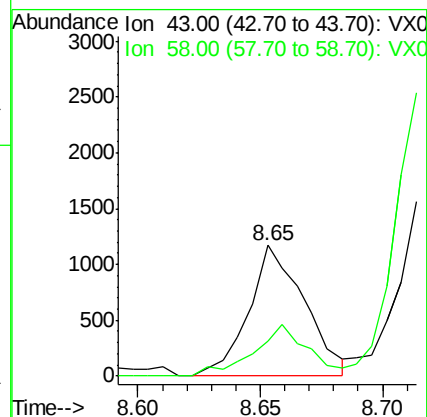
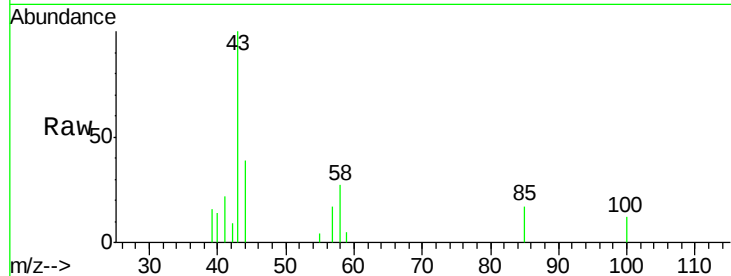
PB110983TB

Tot Ion: 43 Resp: 1877

Ion Ratio Lower Upper

43 100

58 38.1 28.6 42.8



#62

4-Bromofluorobenzene

Concen: 35.49 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003326.D

Acq: 11 Jul 2018 18:09

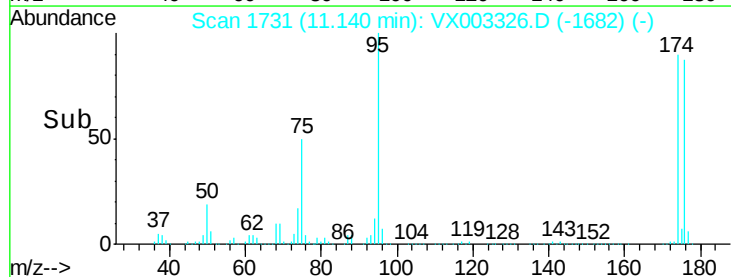
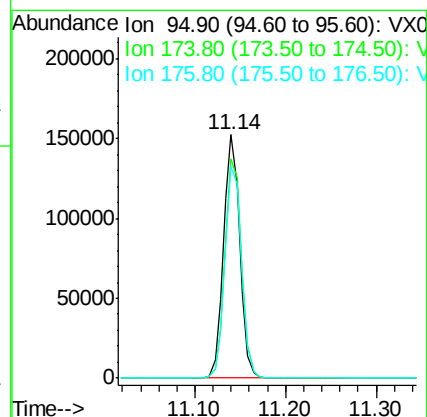
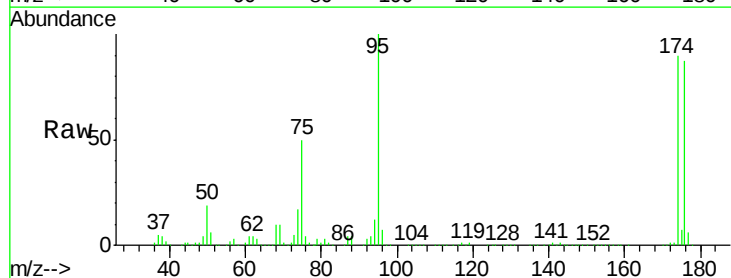
Tgt Ion: 95 Resp: 190712

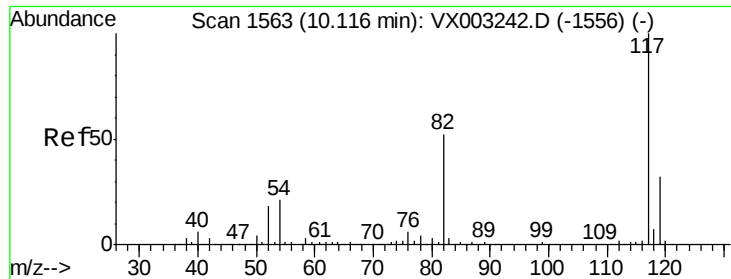
Ion Ratio Lower Upper

95 100

174 92.6 0.0 187.4

176 89.0 0.0 181.0

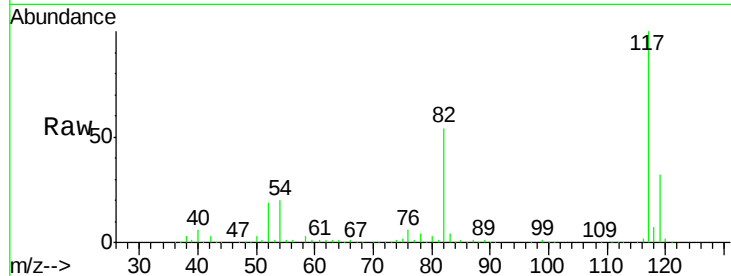




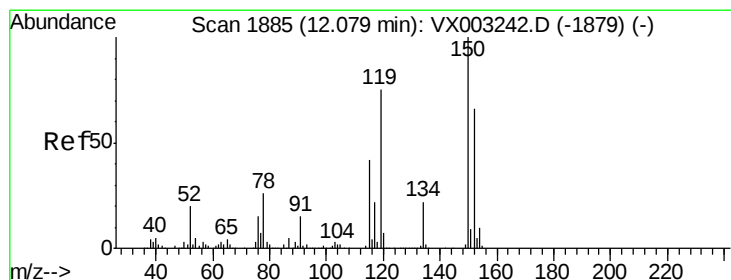
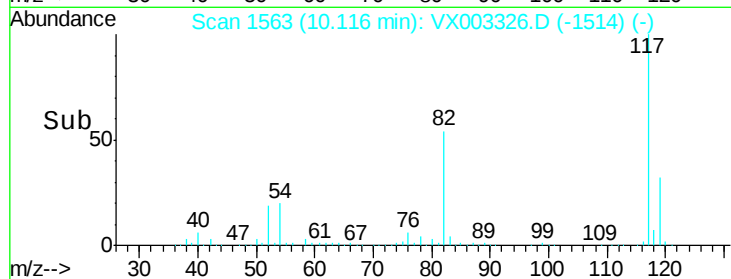
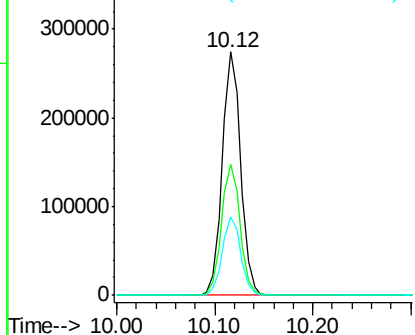
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003326.D
Acq: 11 Jul 2018 18:09

Instrument :
MSVOA_X
ClientSampled :
PB110983TB

Tot Ion:117 Resp: 358429
Ion Ratio Lower Upper
117 100
82 53.8 45.0 67.4
119 32.1 25.8 38.6

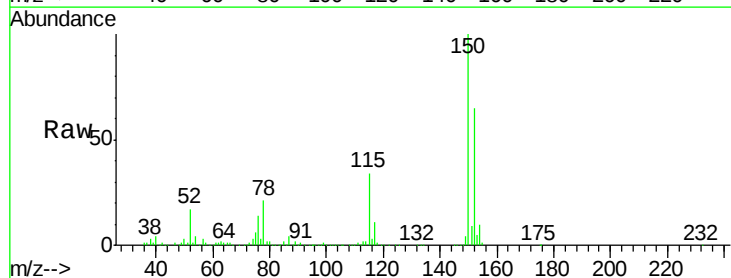


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

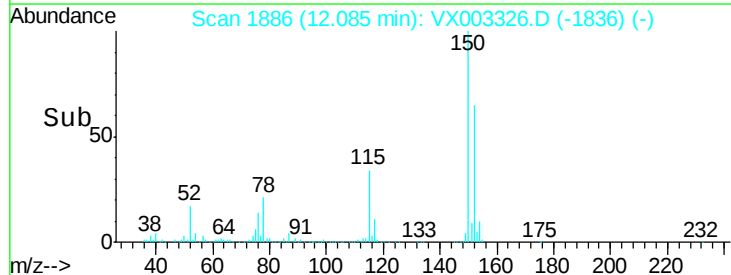
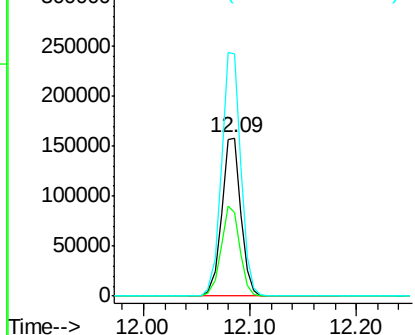


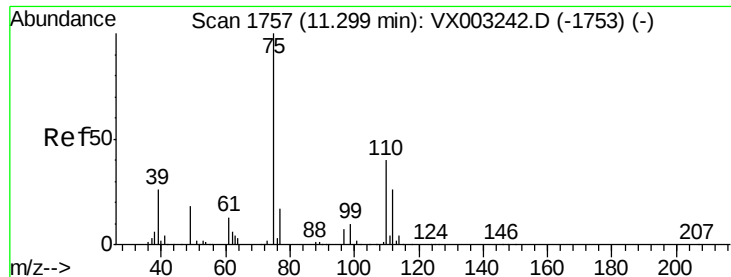
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. 0.01 min
Lab File: VX003326.D
Acq: 11 Jul 2018 18:09

Tgt Ion:152 Resp: 198396
Ion Ratio Lower Upper
152 100
115 55.4 40.1 120.2
150 155.9 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: 22.06 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003326.D

Acq: 11 Jul 2018 18:09

Instrument :

MSVOA_X

ClientSampled :

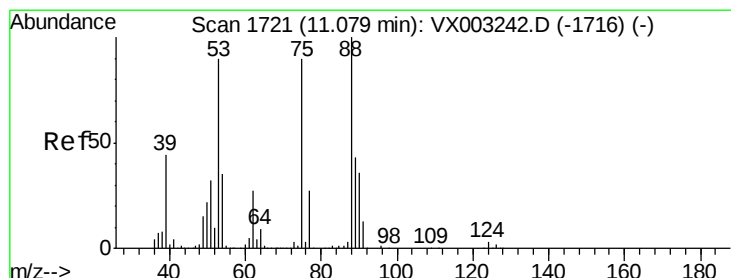
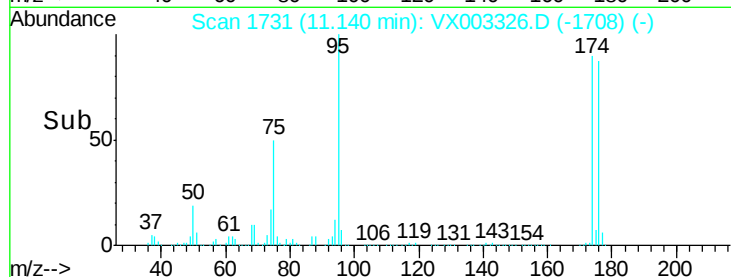
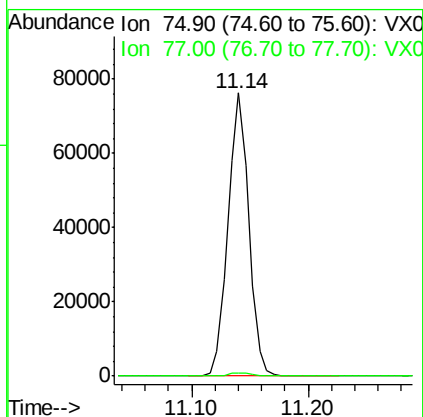
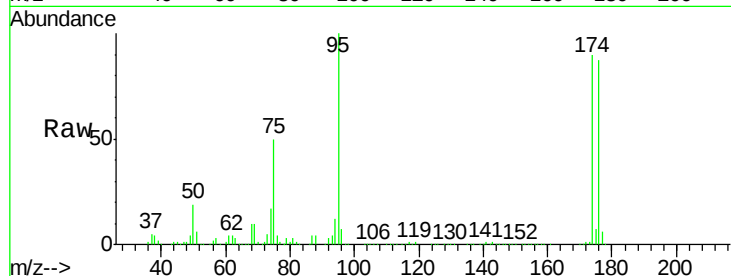
PB110983TB

Tot Ion: 75 Resp: 94581

Ion Ratio Lower Upper

75 100

77 1.5 22.8 68.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 72.10 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003326.D

Acq: 11 Jul 2018 18:09

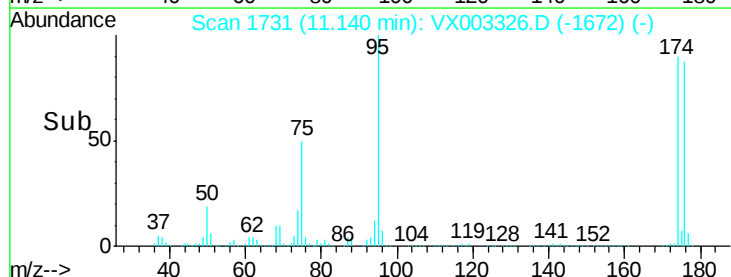
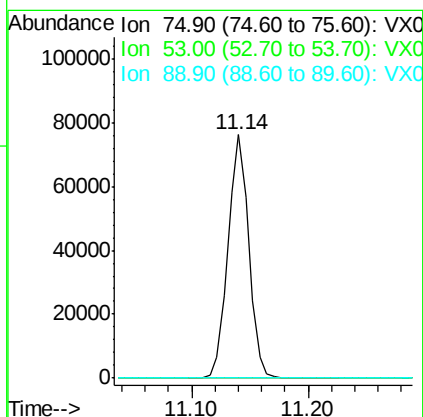
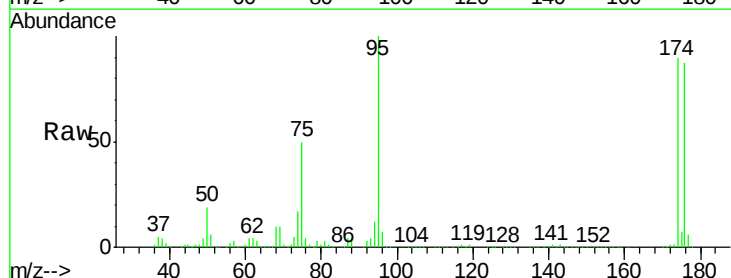
Tgt Ion: 75 Resp: 94581

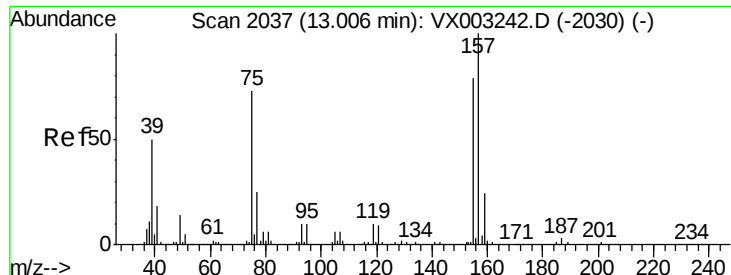
Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.28 ug/l

RT: 12.98 min Scan# 2033

Delta R.T. -0.02 min

Lab File: VX003326.D

Acq: 11 Jul 2018 18:09

Instrument :

MSVOA_X

ClientSampleId :

PB110983TB

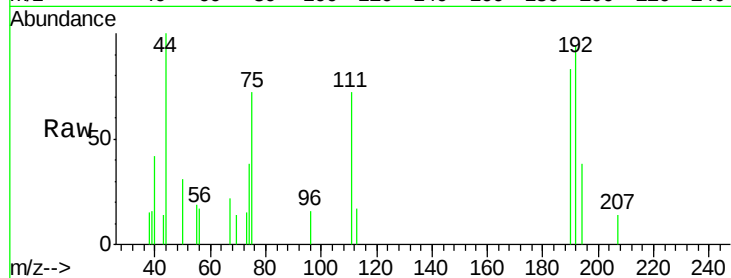
Tot Ion: 75 Resp: 295

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

