

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070918\
 Data File : VX003265.D
 Acq On : 10 Jul 2018 00:57
 Operator : JC/MD
 Sample : PB110911ZHE#11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB110911ZHE#11

Quant Time: Jul 10 01:30:15 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	267744	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	370854	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	339726	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	189504	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	167801	39.82	ug/l	0.00
Spiked Amount			Recovery	=	79.64%	
35) Dibromofluoromethane	5.51	113	145657	36.56	ug/l	0.00
Spiked Amount			Recovery	=	73.12%	
50) Toluene-d8	8.72	98	513492	36.28	ug/l	0.00
Spiked Amount			Recovery	=	72.56%	
62) 4-Bromofluorobenzene	11.14	95	177070	33.86	ug/l	0.00
Spiked Amount			Recovery	=	67.72%	

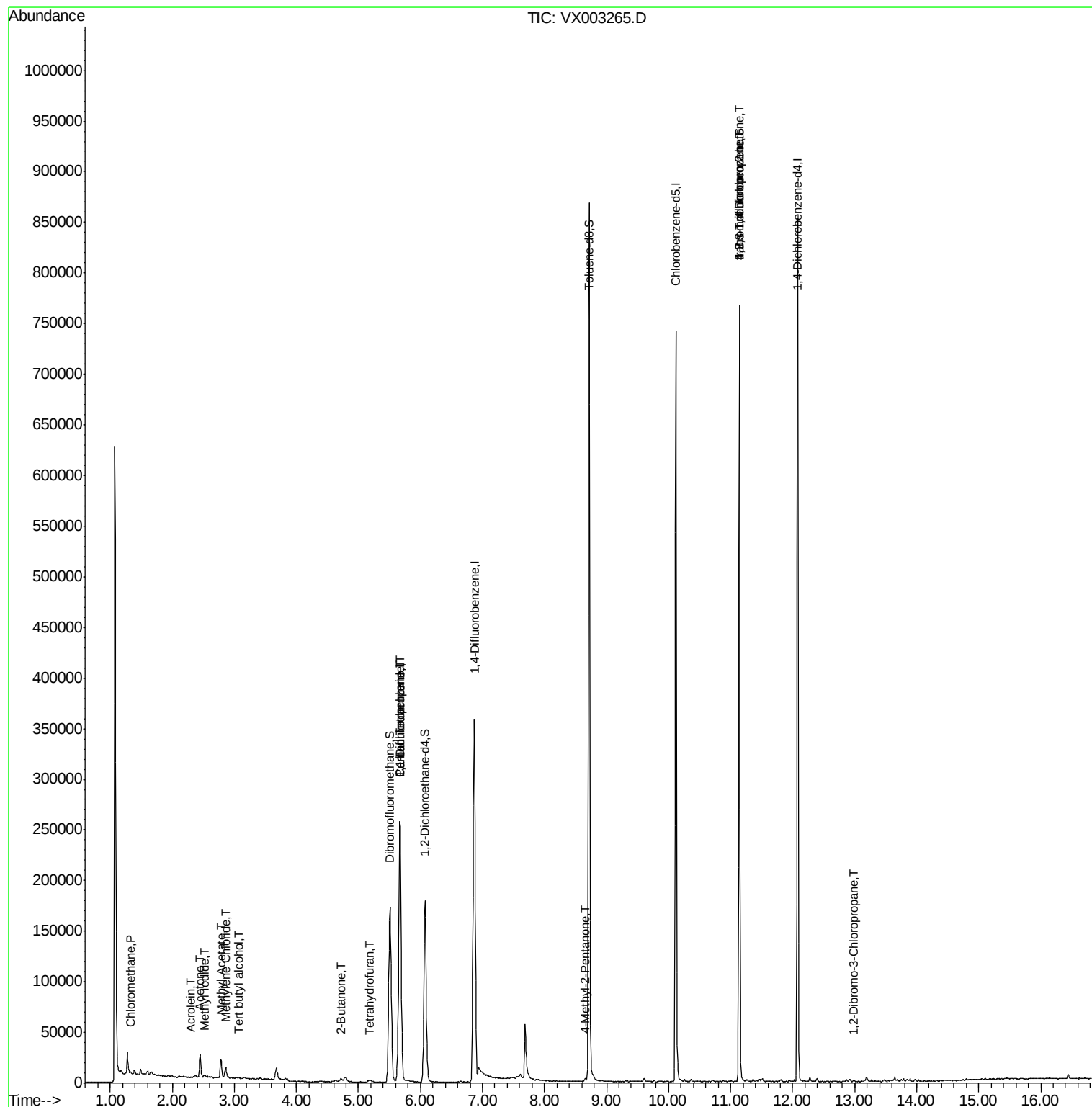
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1354	0.37	ug/l	91
5) Bromomethane	1.65	94	2417	Below Cal		94
10) Methyl Iodide	2.52	142	2650	6.29	ug/l #	94
11) Tert butyl alcohol	3.07	59	703	0.92	ug/l #	81
13) Acrolein	2.30	56	422	0.69	ug/l #	58
16) Acetone	2.45	43	23690	15.84	ug/l	92
18) Methyl Acetate	2.78	43	22829	5.41	ug/l	95
20) Methylene Chloride	2.86	84	5106	0.97	ug/l	89
25) 2-Butanone	4.73	43	5209	1.97	ug/l	98
29) Tetrahydrofuran	5.17	42	1839	1.07	ug/l #	85
36) 1,1-Dichloropropene	5.67	75	16847	3.21	ug/l #	51
38) Carbon Tetrachloride	5.67	117	24257	4.22	ug/l #	17
51) 4-Methyl-2-Pentanone	8.66	43	2038	0.36	ug/l	99
76) 1,2,3-Trichloropropane	11.14	75	87180	21.29	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	87180	69.57	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	12.98	75	277	0.28	ug/l #	1

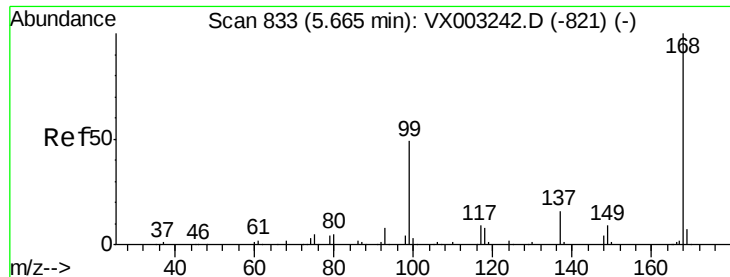
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX003265.D

Acq: 10 Jul 2018 00:57

Instrument :

MSVOA_X

ClientSampleId :

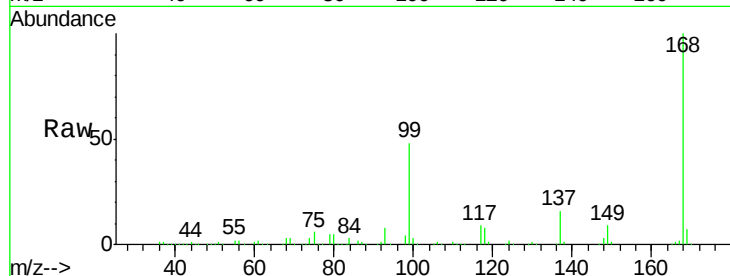
PB110911ZHE#11

Tot Ion:168 Resp: 267744

Ion Ratio Lower Upper

168 100

99 47.7 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

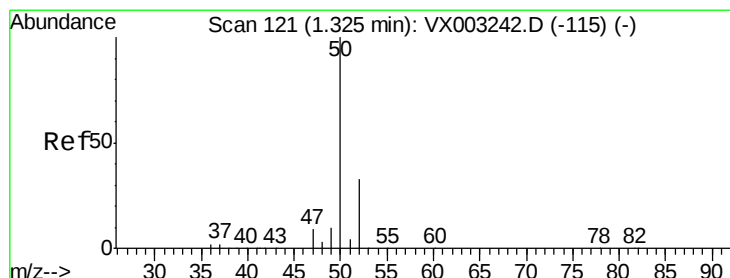
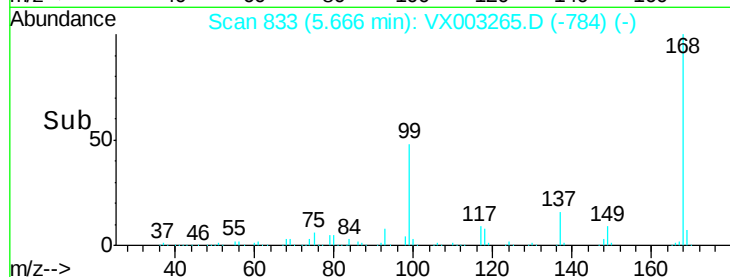
40000

20000

0

Time-->

5.60 5.70 5.80



#3

Chloromethane

Concen: 0.37 ug/l

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX003265.D

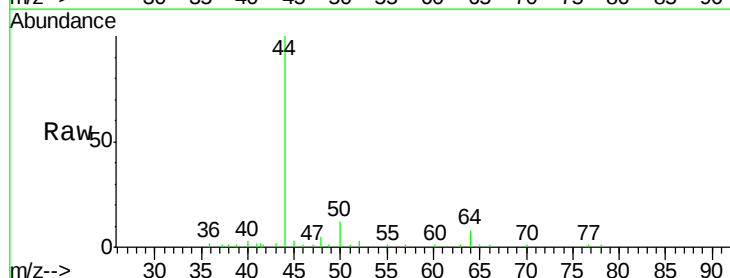
Acq: 10 Jul 2018 00:57

Tgt Ion: 50 Resp: 1354

Ion Ratio Lower Upper

50 100

52 27.1 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

800

600

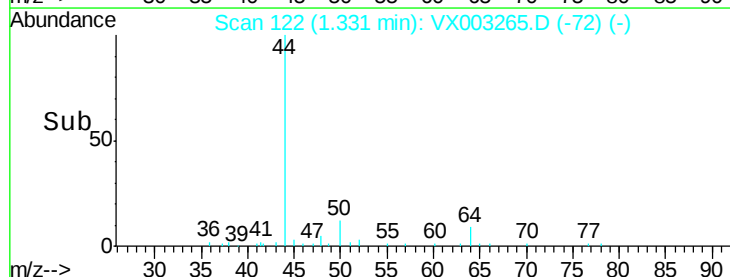
400

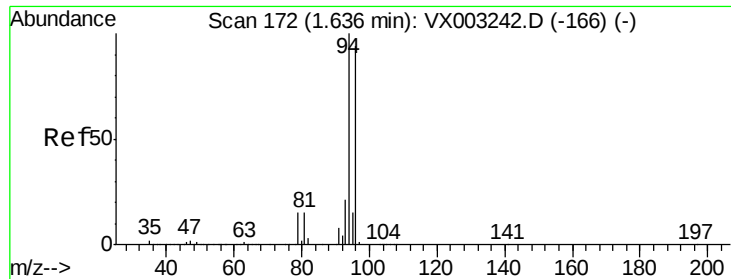
200

0

Time-->

1.30 1.35 1.40





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003265.D

Acq: 10 Jul 2018 00:57

Instrument :

MSVOA_X

ClientSampleId :

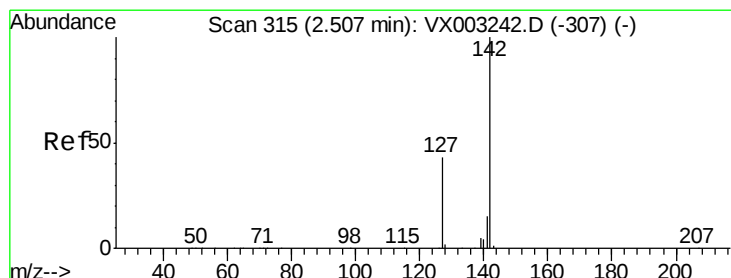
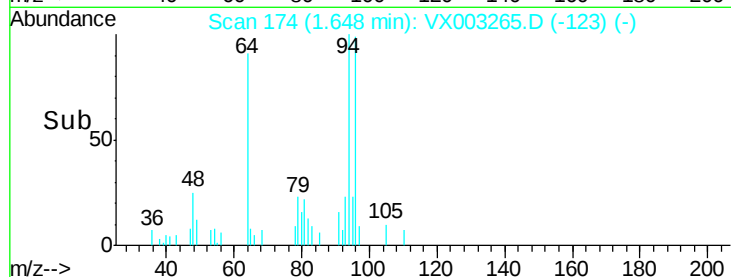
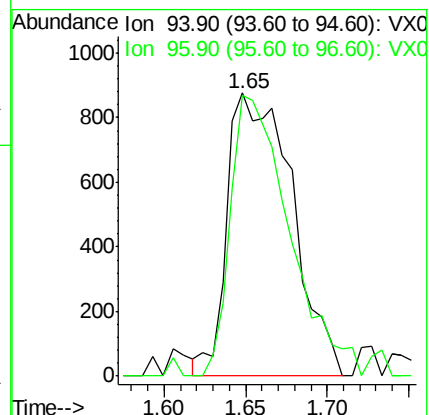
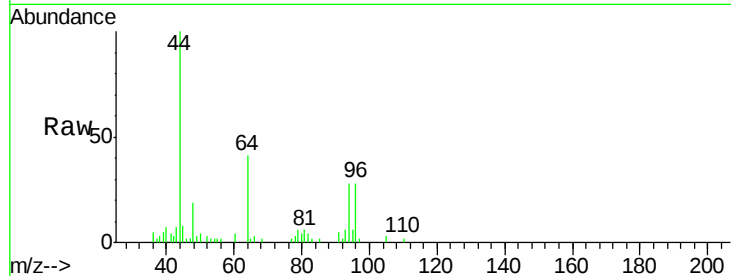
PB110911ZHE#11

Tot Ion: 94 Resp: 2417

Ion Ratio Lower Upper

94 100

96 99.3 74.9 112.3



#10

Methyl Iodide

Concen: 6.29 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003265.D

Acq: 10 Jul 2018 00:57

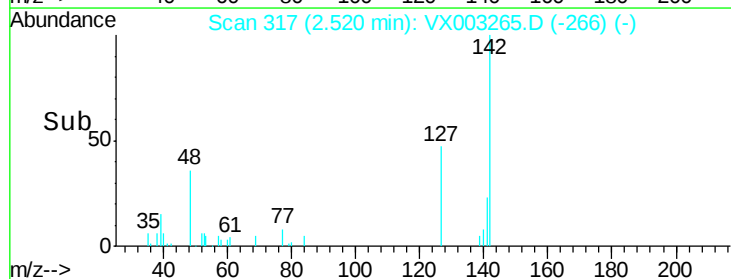
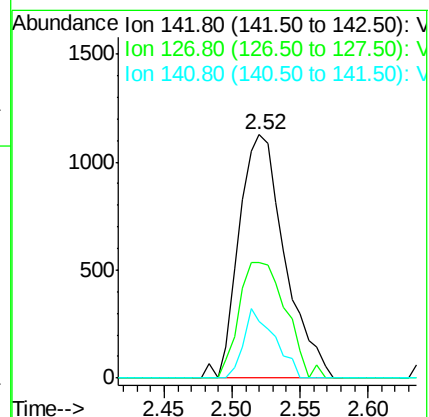
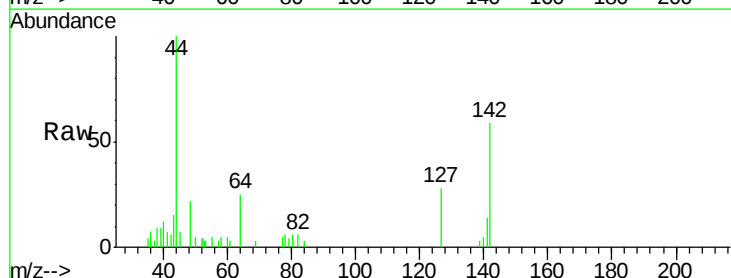
Tgt Ion: 142 Resp: 2650

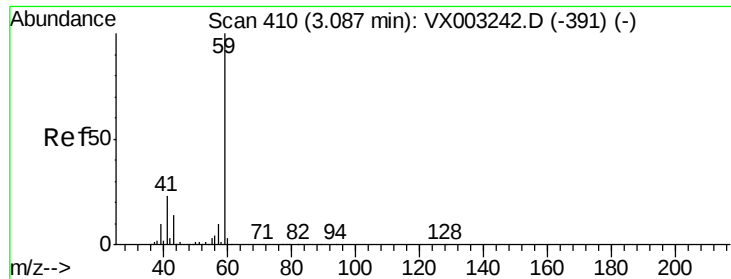
Ion Ratio Lower Upper

142 100

127 48.6 36.6 55.0

141 19.2 11.3 16.9#



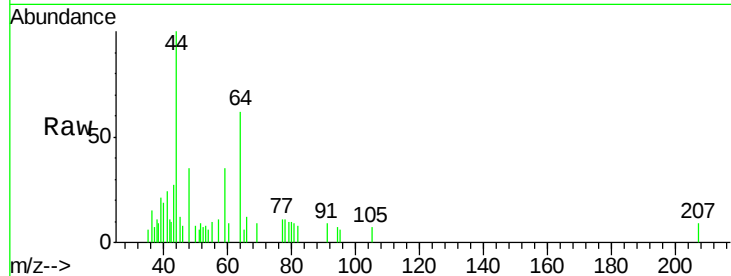


#11

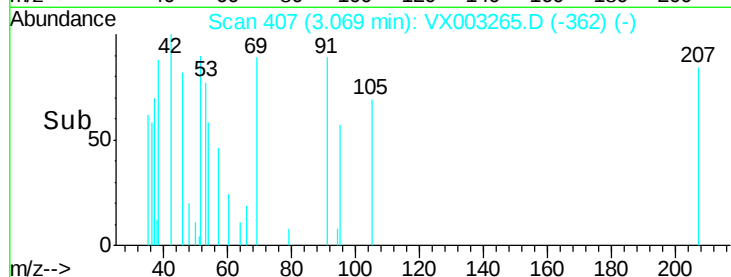
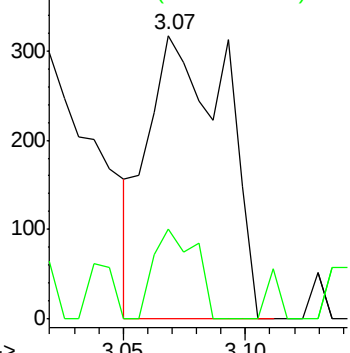
Tert butyl alcohol
Concen: 0.92 ug/l
RT: 3.07 min Scan# 407
Delta R.T. -0.02 min
Lab File: VX003265.D
Acq: 10 Jul 2018 00:57

Instrument :
MSVOA_X
ClientSampleId :
PB110911ZHE#11

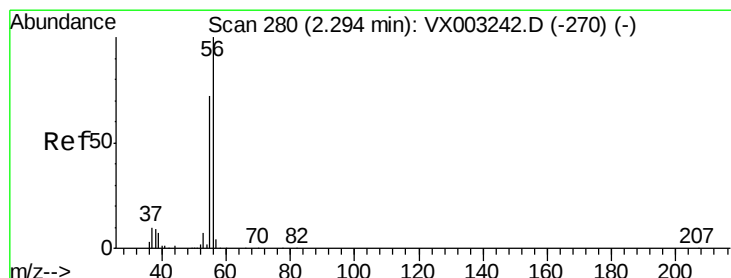
Tot Ion: 59 Resp: 703
Ion Ratio Lower Upper
59 100
57 17.2 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0



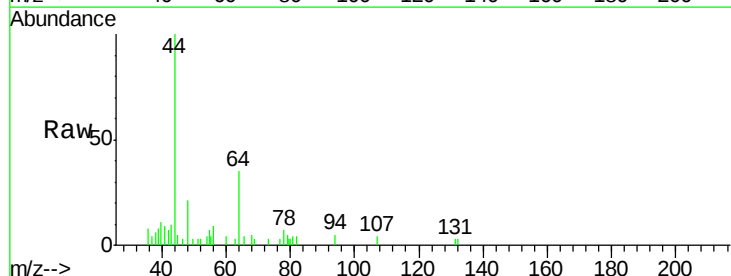
Time-->



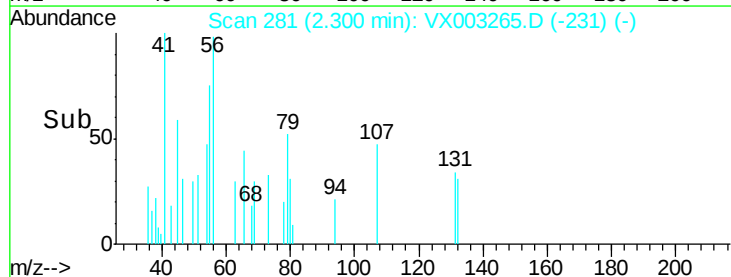
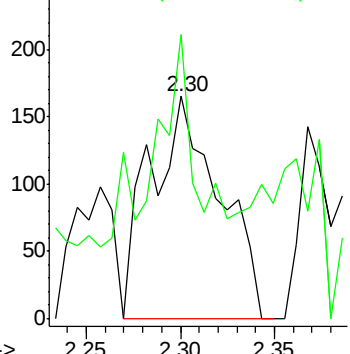
#13

Acrolein
Concen: 0.69 ug/l
RT: 2.30 min Scan# 281
Delta R.T. 0.01 min
Lab File: VX003265.D
Acq: 10 Jul 2018 00:57

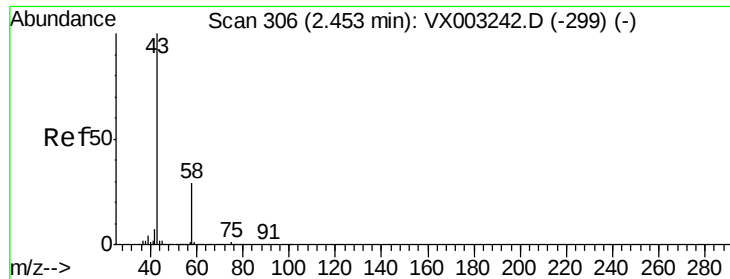
Tgt Ion: 56 Resp: 422
Ion Ratio Lower Upper
56 100
55 36.3 57.0 85.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 55.00 (54.70 to 55.70): VX0



Time-->



#16

Acetone

Concen: 15.84 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX003265.D

Acq: 10 Jul 2018 00:57

Instrument :

MSVOA_X

ClientSampleId :

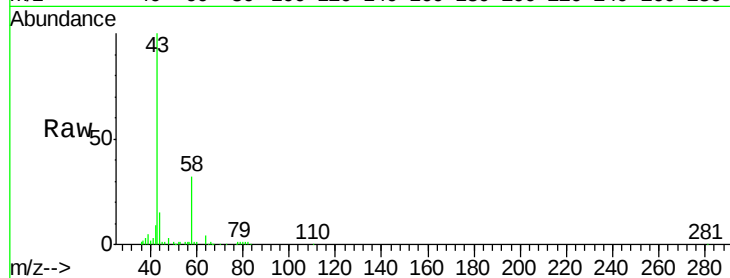
PB110911ZHE#11

Tot Ion: 43 Resp: 23690

Ion Ratio Lower Upper

43 100

58 32.0 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

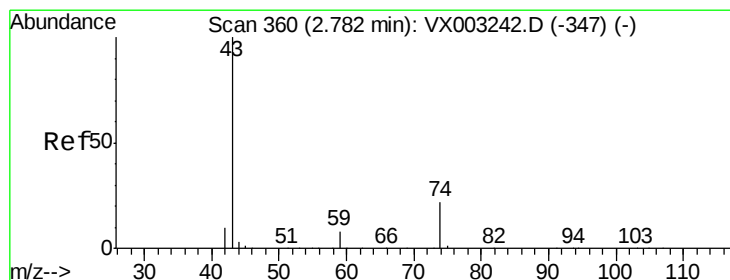
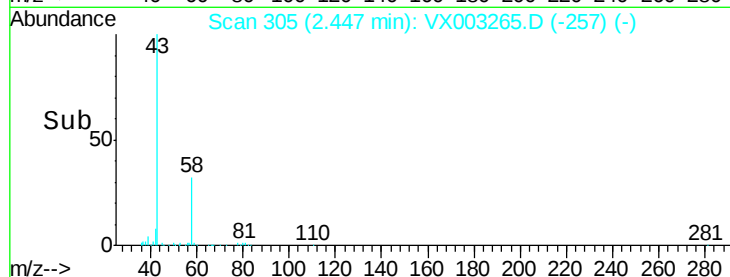
15000

10000

5000

0

Time--> 2.35 2.40 2.45 2.50



#18

Methyl Acetate

Concen: 5.41 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX003265.D

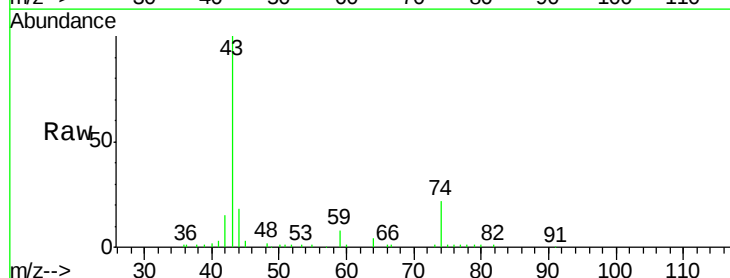
Acq: 10 Jul 2018 00:57

Tgt Ion: 43 Resp: 22829

Ion Ratio Lower Upper

43 100

74 23.2 16.7 25.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

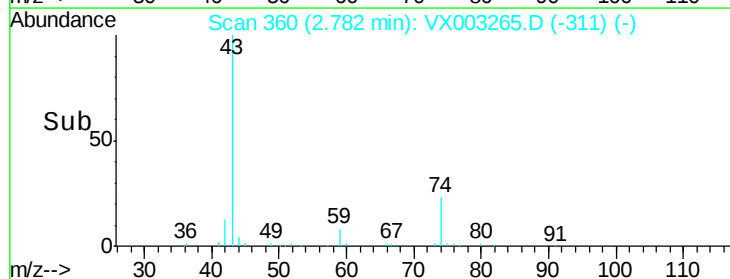
Ion 74.00 (73.70 to 74.70): VX0

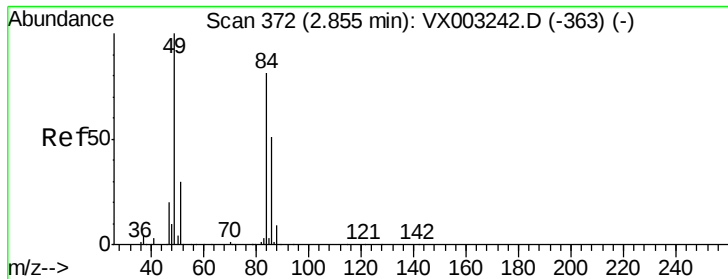
10000

5000

0

Time--> 2.70 2.80 2.90





#20

Methylene Chloride

Concen: 0.97 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX003265.D

Acq: 10 Jul 2018 00:57

Instrument :

MSVOA_X

ClientSampleId :

PB110911ZHE#11

Tot Ion: 84 Resp: 5106

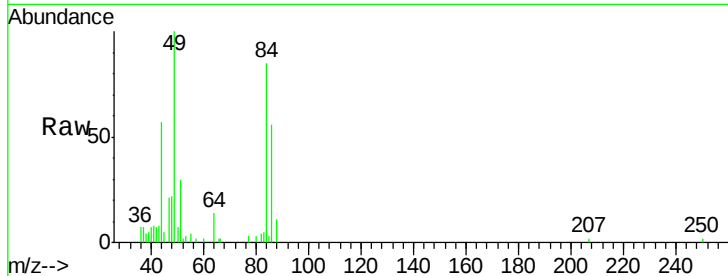
Ion Ratio Lower Upper

84 100

49 117.2 107.8 161.6

51 32.9 32.8 49.2

86 66.2 52.5 78.7

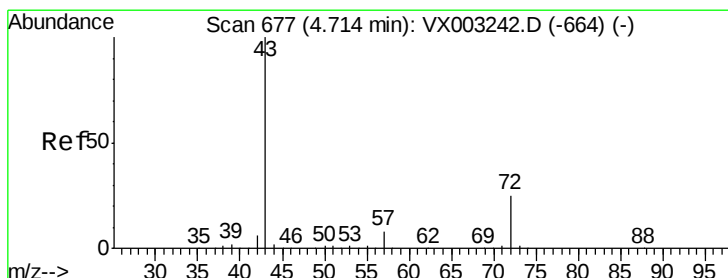
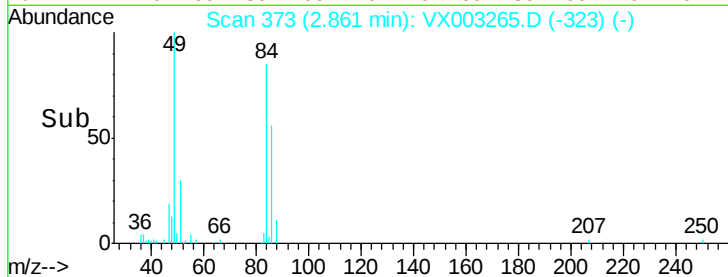
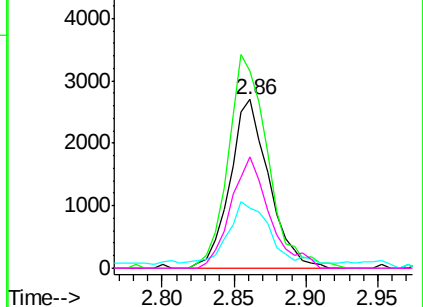


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 1.97 ug/l

RT: 4.73 min Scan# 679

Delta R.T. 0.01 min

Lab File: VX003265.D

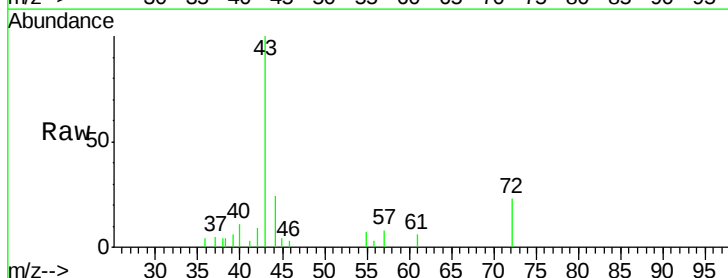
Acq: 10 Jul 2018 00:57

Tgt Ion: 43 Resp: 5209

Ion Ratio Lower Upper

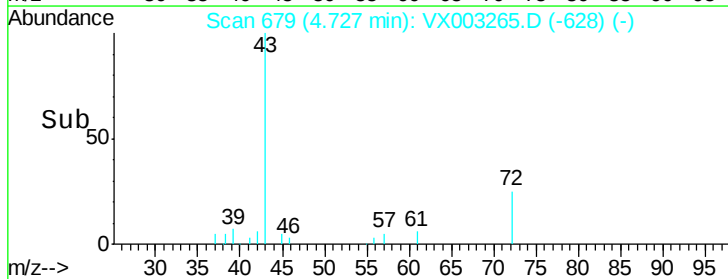
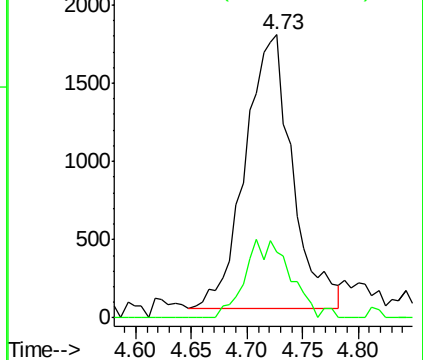
43 100

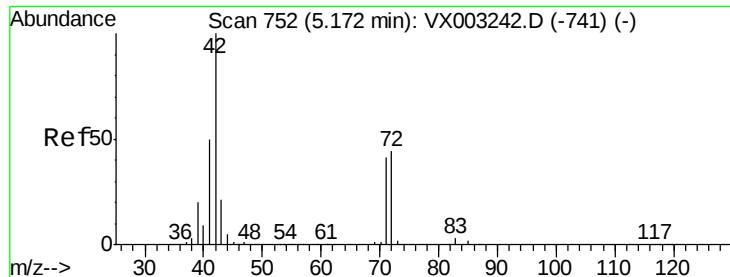
72 23.9 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 1.07 ug/l

RT: 5.17 min Scan# 752

Delta R.T. 0.00 min

Lab File: VX003265.D

Acq: 10 Jul 2018 00:57

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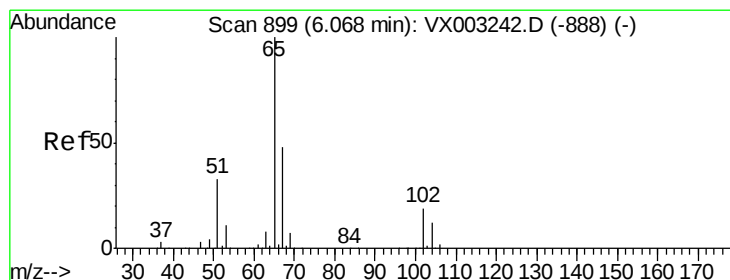
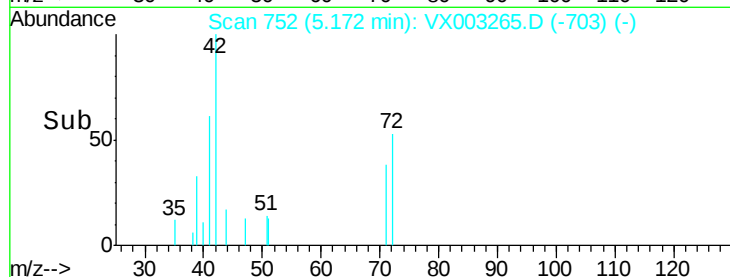
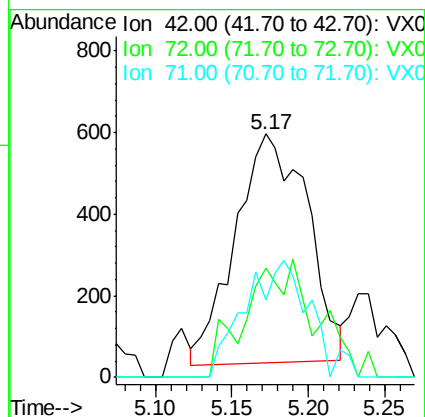
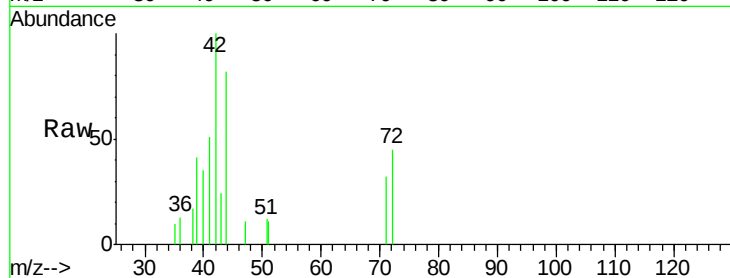
Tot Ion: 42 Resp: 1839

Ion Ratio Lower Upper

42 100

72 50.0 32.0 48.0#

71 46.4 30.1 45.1#



#33

1,2-Dichloroethane-d4

Concen: 39.82 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX003265.D

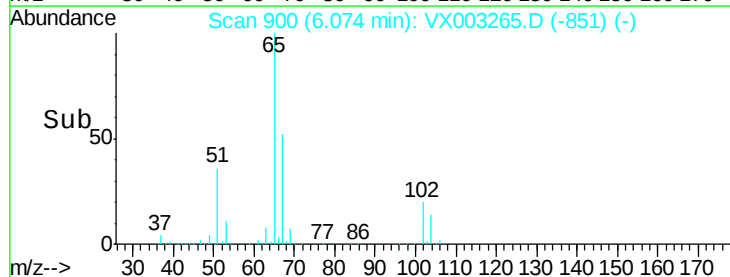
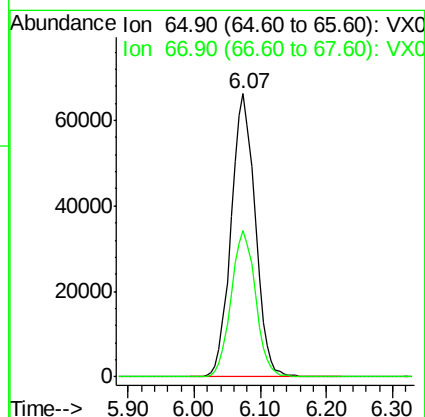
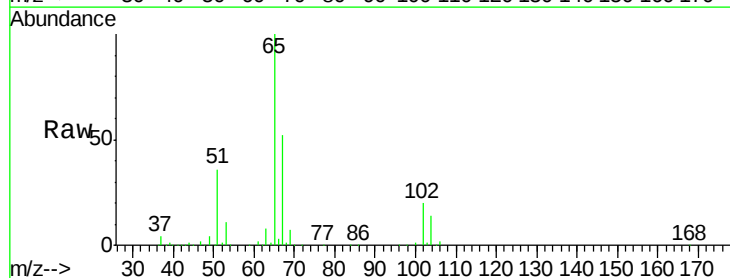
Acq: 10 Jul 2018 00:57

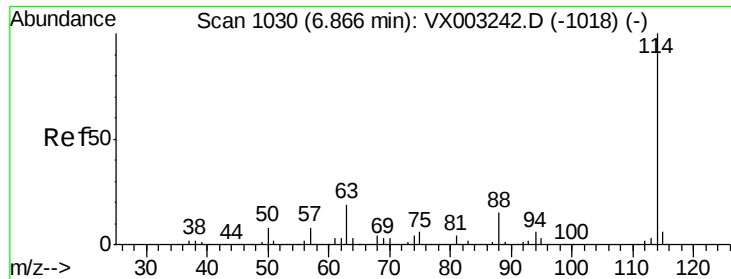
Tgt Ion: 65 Resp: 167801

Ion Ratio Lower Upper

65 100

67 52.3 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: VX003265.D

Acq: 10 Jul 2018 00:57

Instrument :

MSVOA_X

ClientSampleId :

PB110911ZHE#11

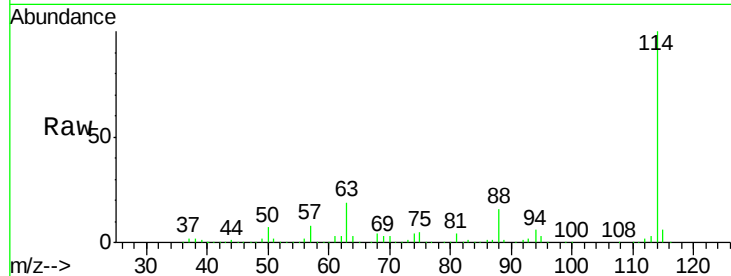
Tot Ion:114 Resp: 370854

Ion Ratio Lower Upper

114 100

63 18.7 0.0 41.4

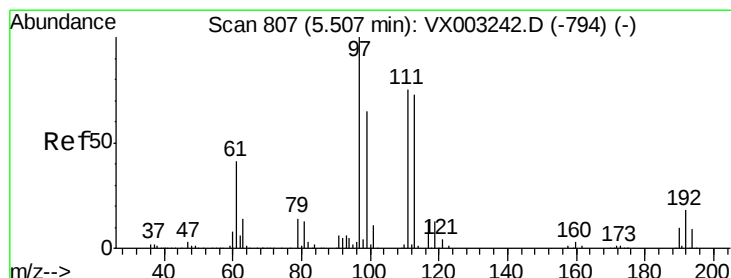
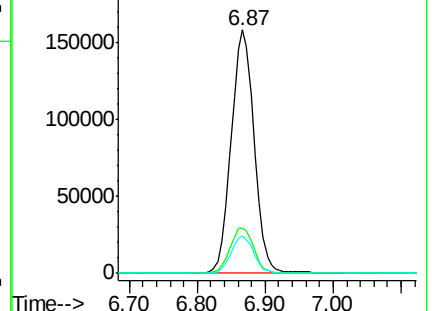
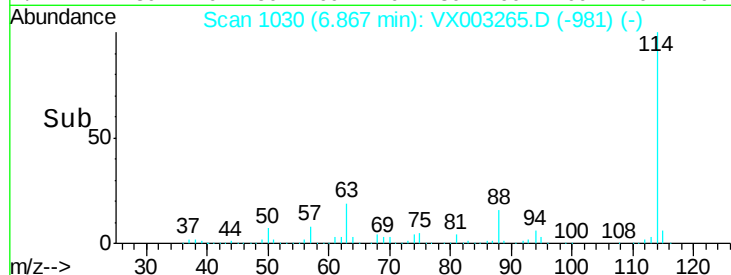
88 15.6 0.0 30.0



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: 36.56 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003265.D

Acq: 10 Jul 2018 00:57

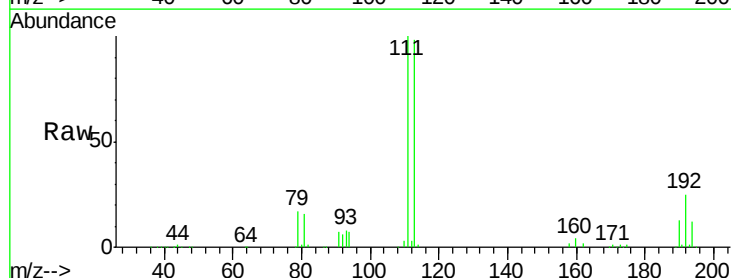
Tgt Ion:113 Resp: 145657

Ion Ratio Lower Upper

113 100

111 101.0 81.4 122.0

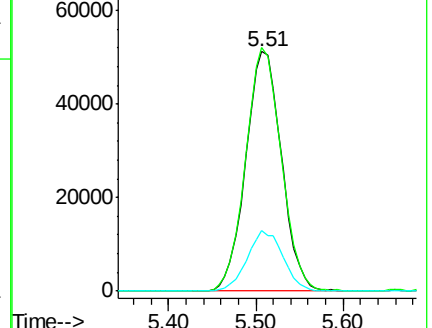
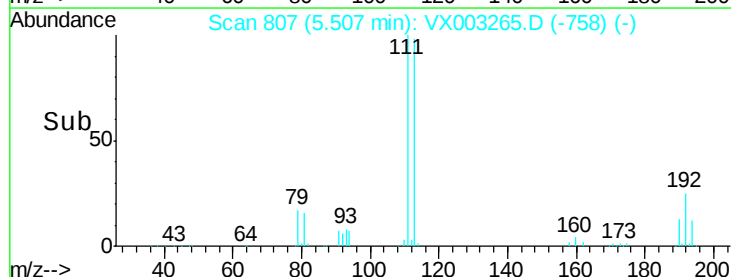
192 25.3 19.1 28.7

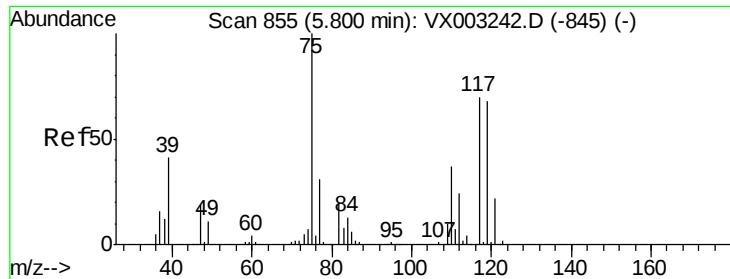


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

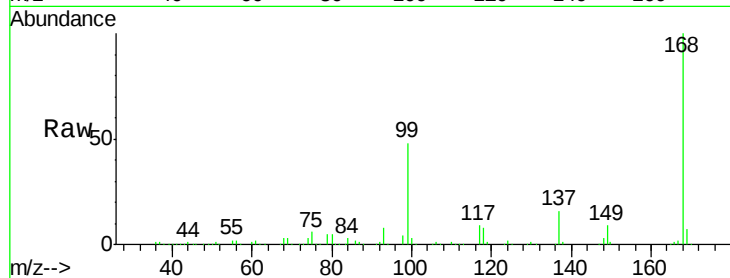




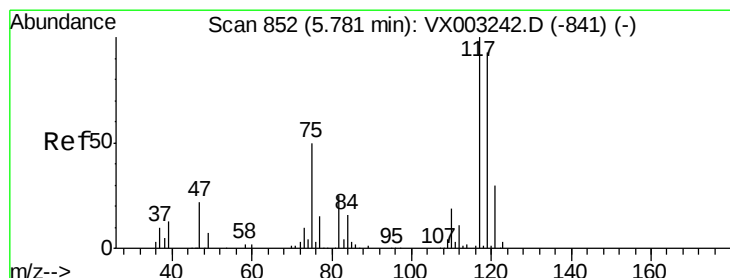
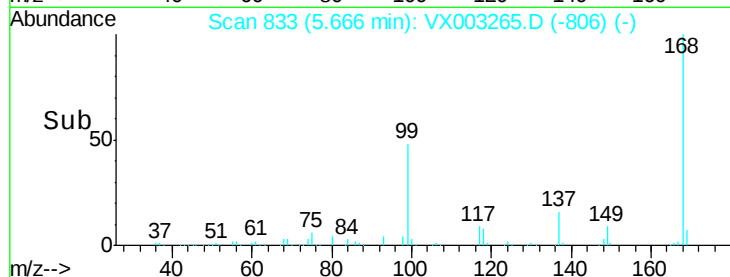
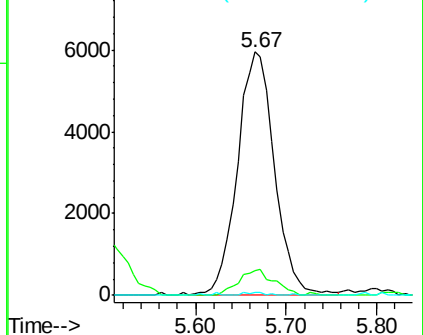
#36
 1,1-Dichloropropene
 Concen: 3.21 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX003265.D
 Acq: 10 Jul 2018 00:57

Instrument :
 MSVOA_X
 ClientSampleId :
 PB110911ZHE#11

Tot Ion	75	Resp	16847
Ion Ratio	100	Lower	Upper
110	10.0	18.1	54.4#
77	0.7	24.3	36.5#

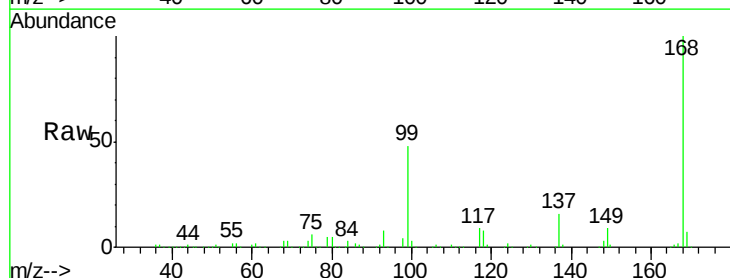


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

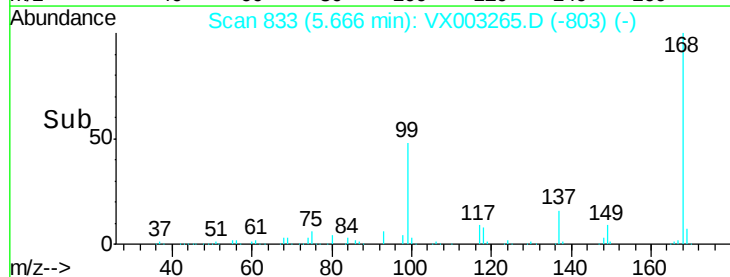
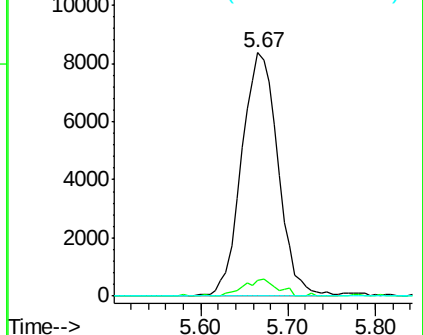


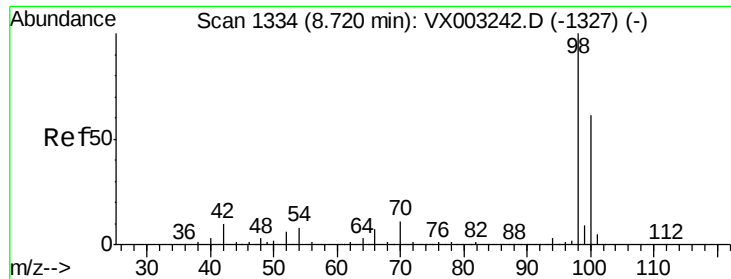
#38
 Carbon Tetrachloride
 Concen: 4.22 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX003265.D
 Acq: 10 Jul 2018 00:57

Tgt Ion	117	Resp	24257
Ion Ratio	100	Lower	Upper
119	6.3	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

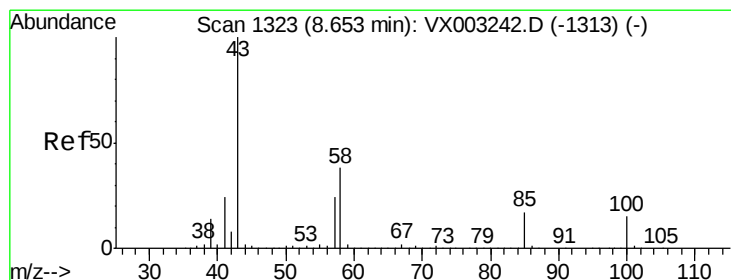
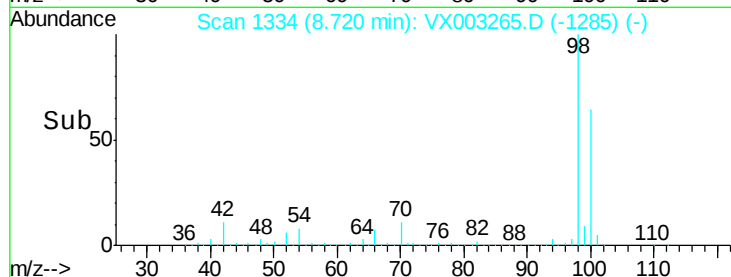
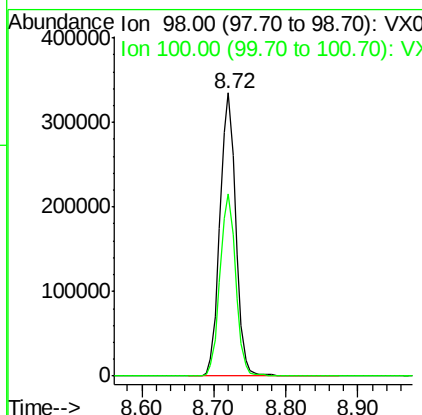
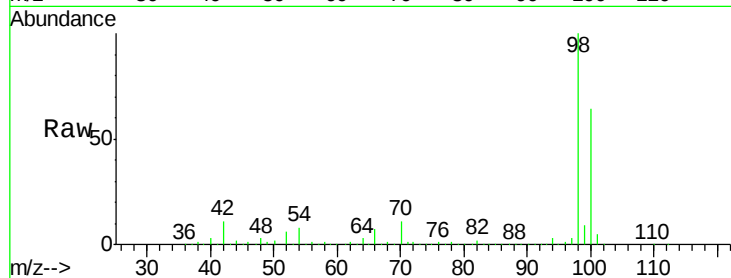




#50
Toluene-d8
Concen: 36.28 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003265.D
Acq: 10 Jul 2018 00:57

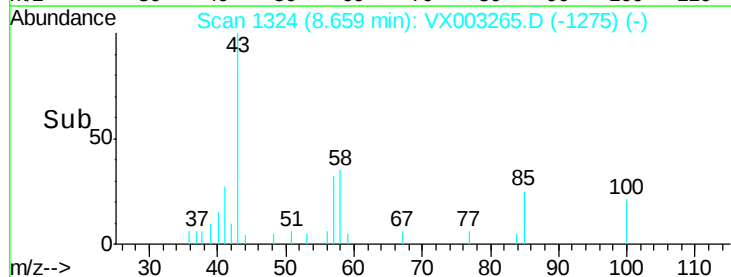
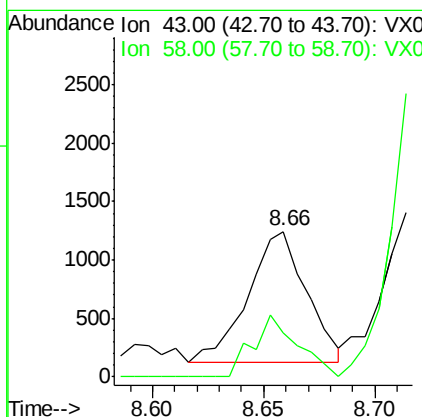
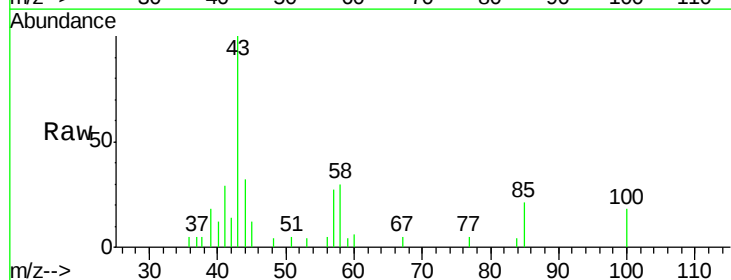
Instrument :
MSVOA_X
ClientSampleId :
PB110911ZHE#11

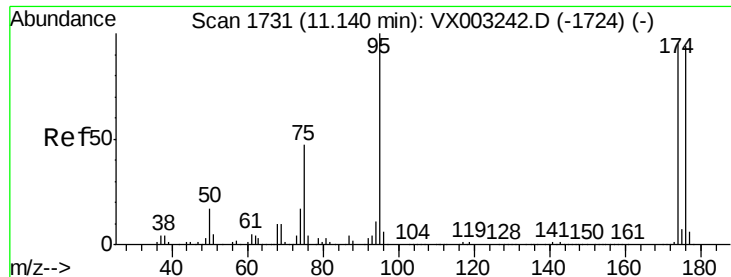
Tot Ion: 98 Resp: 513492
Ion Ratio Lower Upper
98 100
100 63.8 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 0.36 ug/l
RT: 8.66 min Scan# 1324
Delta R.T. 0.00 min
Lab File: VX003265.D
Acq: 10 Jul 2018 00:57

Tgt Ion: 43 Resp: 2038
Ion Ratio Lower Upper
43 100
58 36.4 28.6 42.8





#62

4-Bromofluorobenzene

Concen: 33.86 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003265.D

Acq: 10 Jul 2018 00:57

Instrument :

MSVOA_X

ClientSampleId :

PB110911ZHE#11

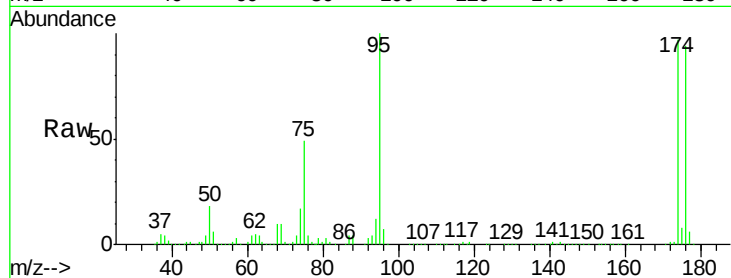
Tot Ion: 95 Resp: 177070

Ion Ratio Lower Upper

95 100

174 99.6 0.0 187.4

176 96.4 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX003242.D (-1724) (-)

Ion 173.80 (173.50 to 174.50): VX003242.D (-1724) (-)

Ion 175.80 (175.50 to 176.50): VX003242.D (-1724) (-)

11.14

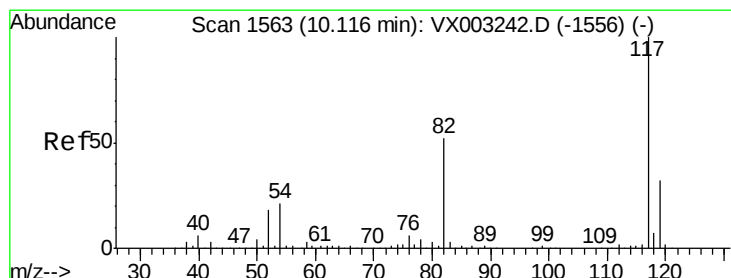
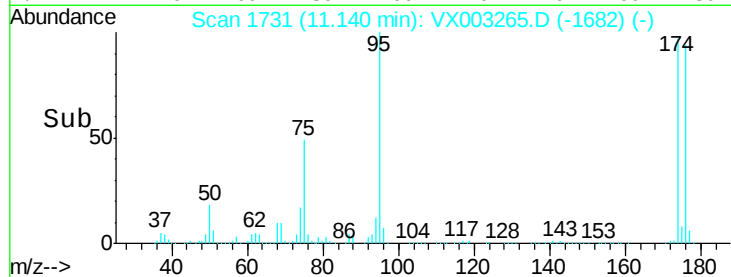
150000

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX003265.D

Acq: 10 Jul 2018 00:57

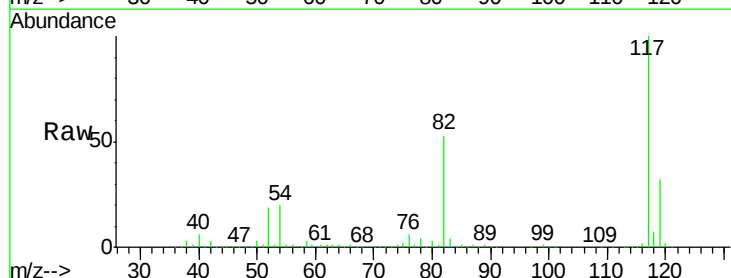
Tgt Ion: 117 Resp: 339726

Ion Ratio Lower Upper

117 100

82 53.5 45.0 67.4

119 32.2 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): VX003242.D (-1556) (-)

Ion 82.00 (81.70 to 82.70): VX003242.D (-1556) (-)

Ion 118.90 (118.60 to 119.60): VX003242.D (-1556) (-)

10.12

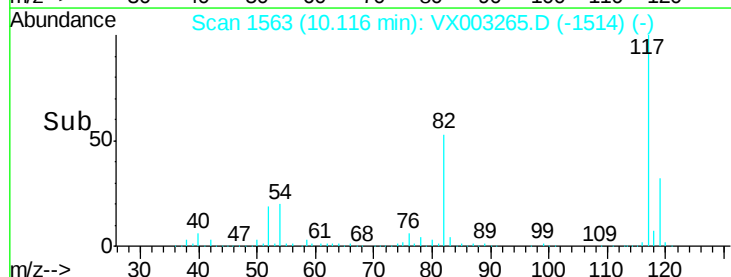
300000

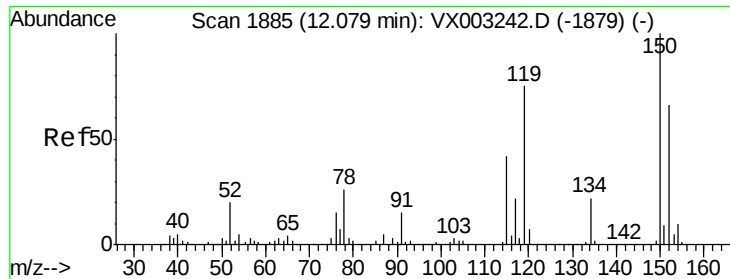
200000

100000

0

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX003265.D

Acq: 10 Jul 2018 00:57

Instrument :

MSVOA_X

ClientSampleId :

PB110911ZHE#11

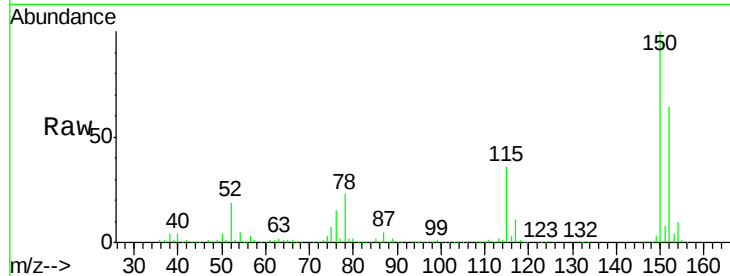
Tot Ion:152 Resp: 189504

Ion Ratio Lower Upper

152 100

115 53.9 40.1 120.2

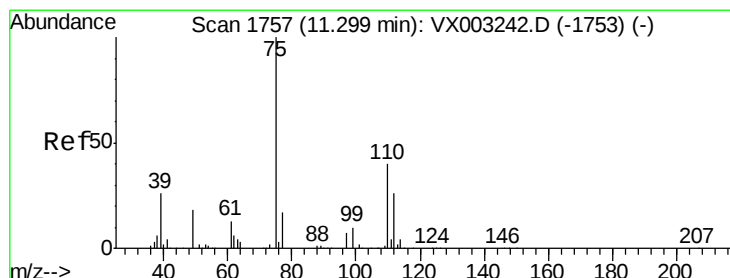
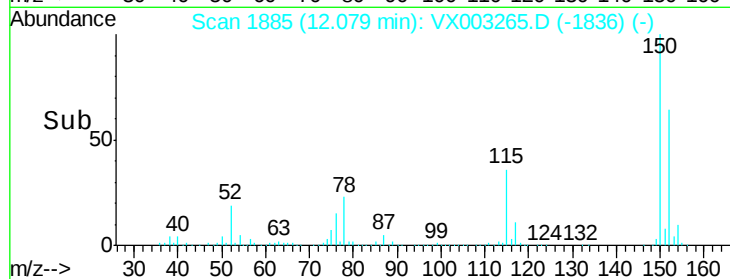
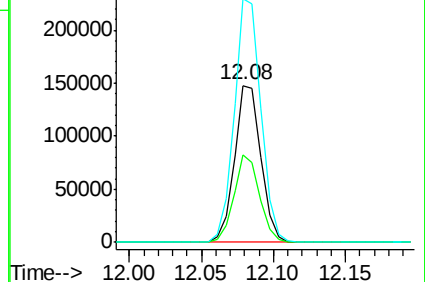
150 156.8 0.0 347.2



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: 21.29 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003265.D

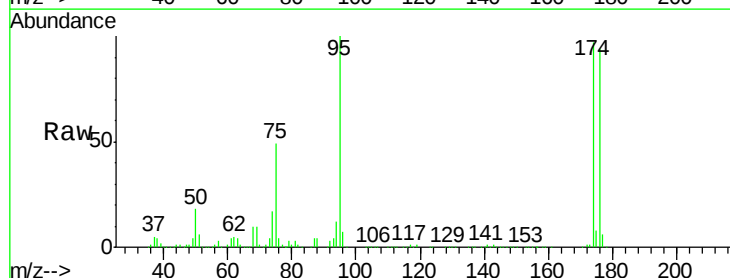
Acq: 10 Jul 2018 00:57

Tgt Ion: 75 Resp: 87180

Ion Ratio Lower Upper

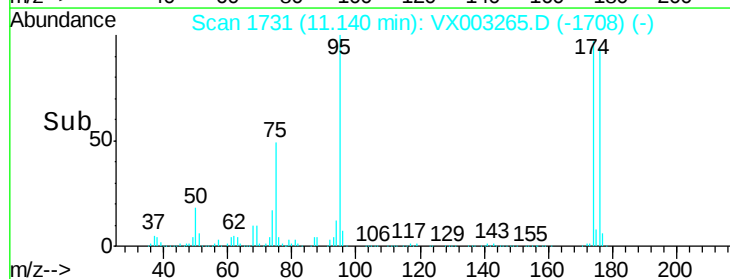
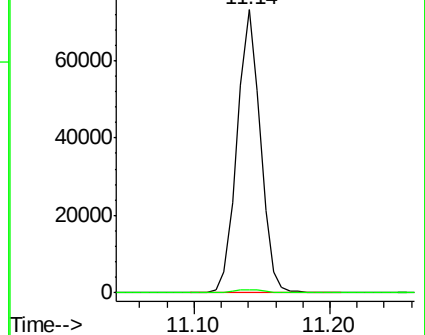
75 100

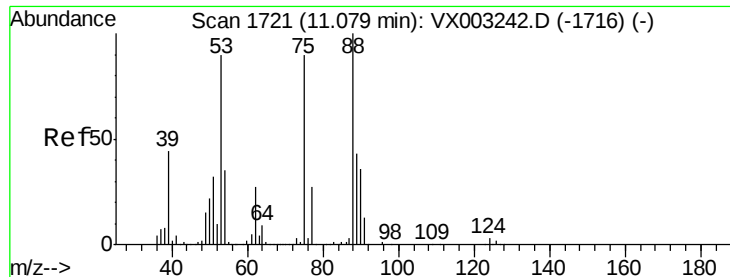
77 1.4 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 69.57 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003265.D

Acq: 10 Jul 2018 00:57

Instrument :

MSVOA_X

ClientSampleId :

PB110911ZHE#11

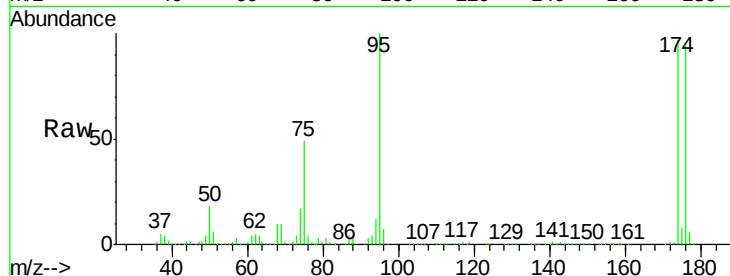
Tot Ion: 75 Resp: 87180

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

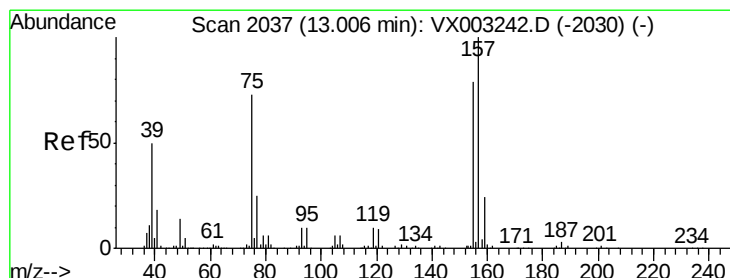
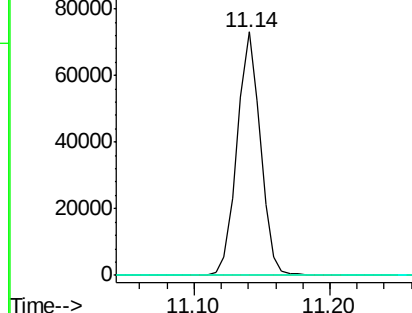
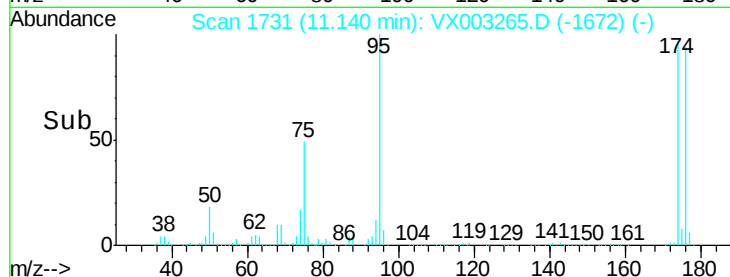
89 0.0 38.2 57.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#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: VX003265.D

Acq: 10 Jul 2018 00:57

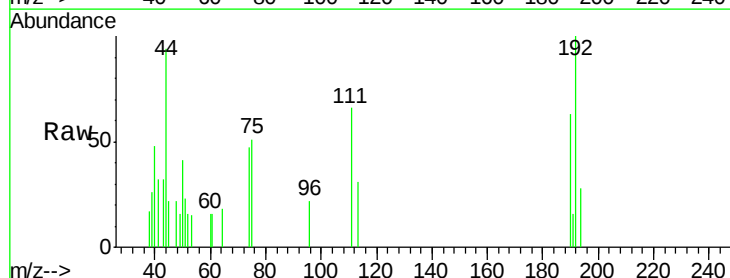
Tgt Ion: 75 Resp: 277

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

