

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX071618\
 Data File : VX003406.D
 Acq On : 16 Jul 2018 22:47
 Operator : JC/MD
 Sample : PB111123ZHE#14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB111123ZHE#14

Quant Time: Jul 17 02:00:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071618W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 16 13:15:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	252017	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	370329	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	343407	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	198875	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.08	65	165684	50.20	ug/l	0.00
Spiked Amount			Recovery	=	100.40%	
35) Dibromofluoromethane	5.51	113	144143	48.11	ug/l	0.00
Spiked Amount			Recovery	=	96.22%	
50) Toluene-d8	8.72	98	599988	54.26	ug/l	0.00
Spiked Amount			Recovery	=	108.52%	
62) 4-Bromofluorobenzene	11.14	95	189611	48.03	ug/l	0.00
Spiked Amount			Recovery	=	96.06%	

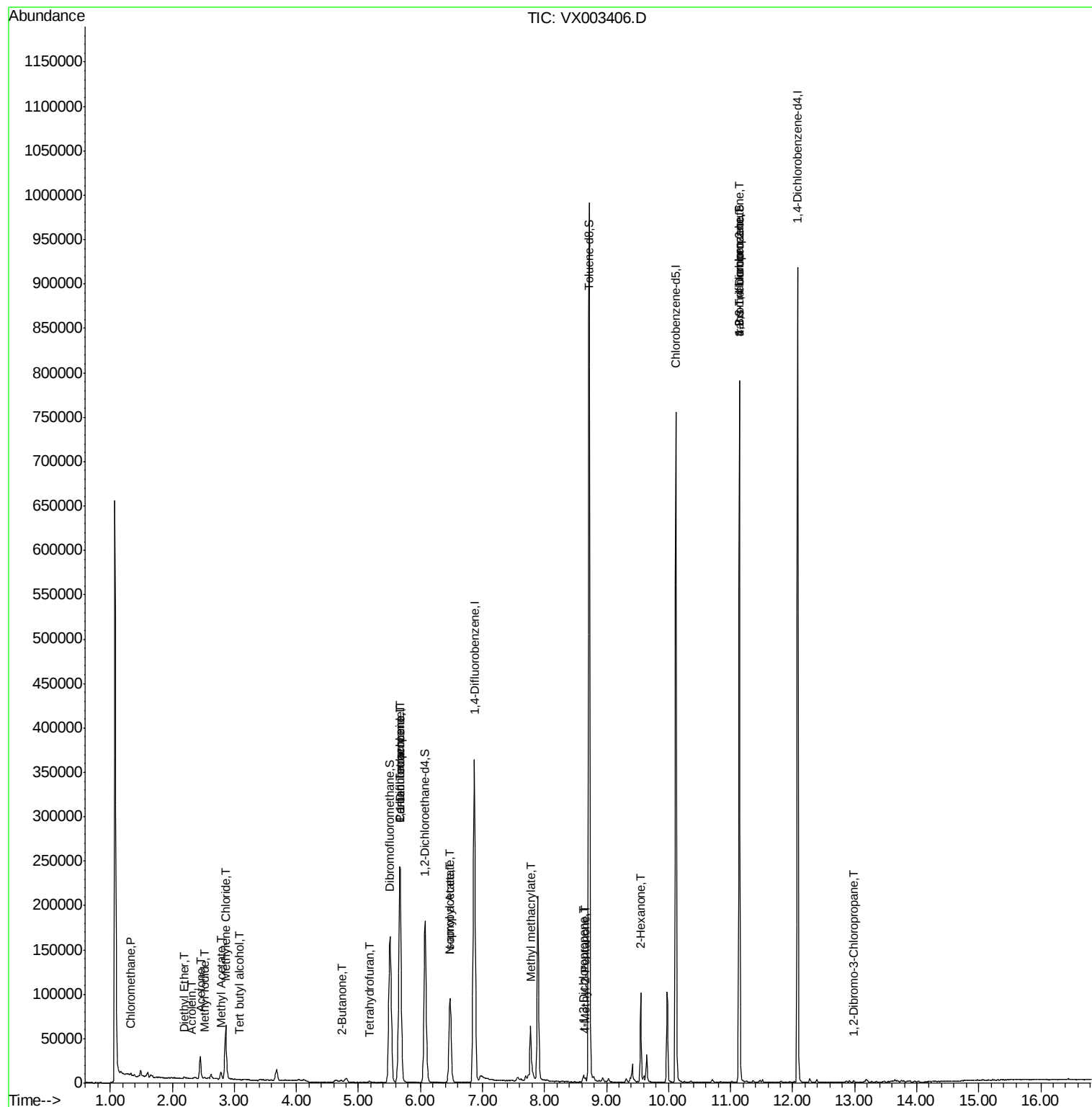
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1043	0.34	ug/l	# 85
5) Bromomethane	1.65	94	2561	Below	Cal	# 93
6) Chloroethane	1.61	64	126	Below	Cal	# 29
8) Diethyl Ether	2.19	74	390	0.20	ug/l	# 97
10) Methyl Iodide	2.52	142	2026	0.67	ug/l	# 90
11) Tert butyl alcohol	3.08	59	888	1.20	ug/l	# 95
13) Acrolein	2.31	56	203	0.57	ug/l	# 84
16) Acetone	2.45	43	27010	19.68	ug/l	# 86
18) Methyl Acetate	2.78	43	9937	2.22	ug/l	# 95
20) Methylene Chloride	2.86	84	29939	9.58	ug/l	# 89
25) 2-Butanone	4.73	43	4289	2.00	ug/l	# 90
29) Tetrahydrofuran	5.18	42	1224	0.90	ug/l	# 94
36) 1,1-Dichloropropene	5.67	75	16848	4.49	ug/l	# 49
38) Carbon Tetrachloride	5.67	117	22609	5.92	ug/l	# 16
43) Isopropyl Acetate	6.48	43	121992	19.13	ug/l	# 94
48) Methyl methacrylate	7.77	41	1924	0.59	ug/l	# 16
51) 4-Methyl-2-Pentanone	8.66	43	1800	0.43	ug/l	# 53
53) t-1,3-Dichloropropene	8.63	75	1393	0.33	ug/l	# 54
59) 2-Hexanone	9.55	43	10846	3.36	ug/l	# 61
74) N-amyl acetate	6.48	43	121992	19.92	ug/l	# 94
76) 1,2,3-Trichloropropane	11.14	75	95297	26.47	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	95297	85.99	ug/l	# 7
92) 1,2-Dibromo-3-Chloropropan	12.98	75	250	0.29	ug/l	# 1

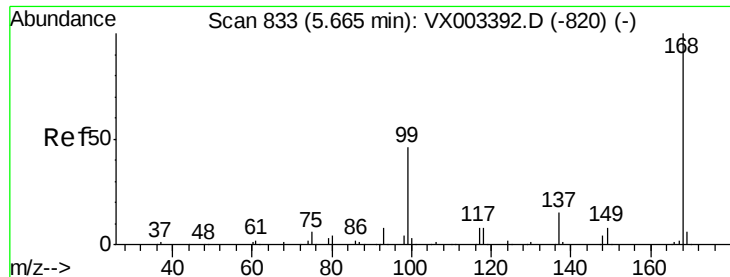
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X071618W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 16 13:15:28 2018
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: VX003406.D

Acq: 16 Jul 2018 22:47

Instrument :

MSVOA_X

ClientSampleId :

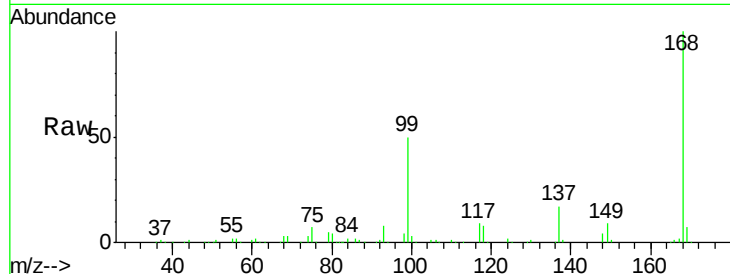
PB111123ZHE#14

Tot Ion:168 Resp: 252017

Ion Ratio Lower Upper

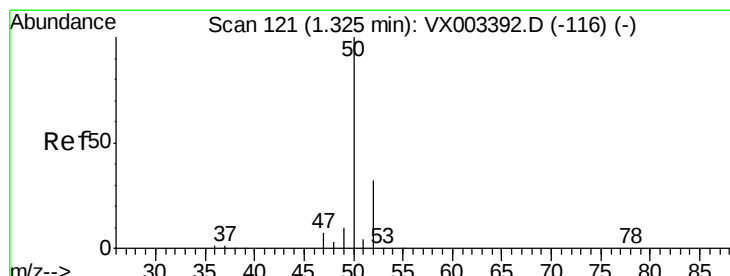
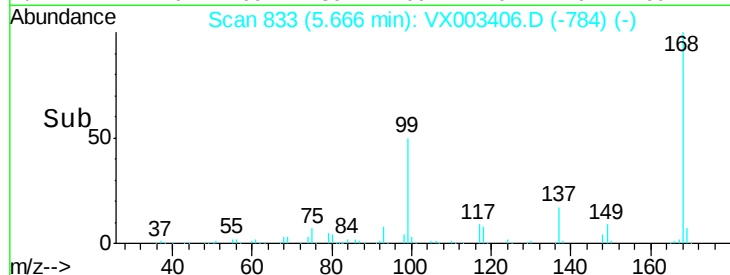
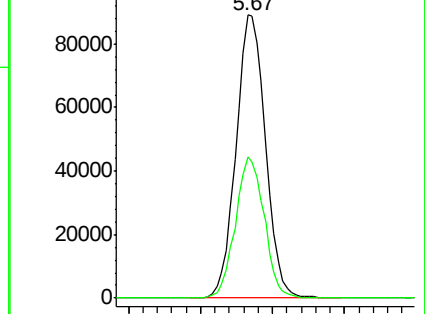
168 100

99 49.7 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.34 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003406.D

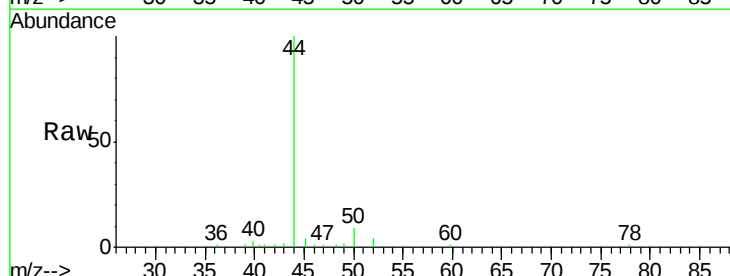
Acq: 16 Jul 2018 22:47

Tgt Ion: 50 Resp: 1043

Ion Ratio Lower Upper

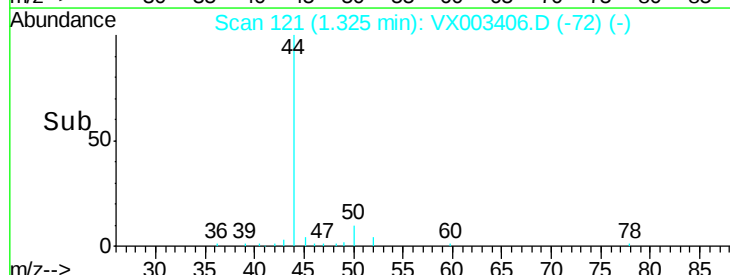
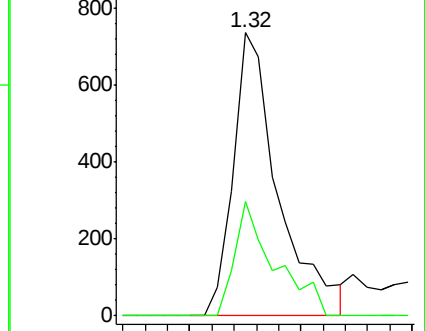
50 100

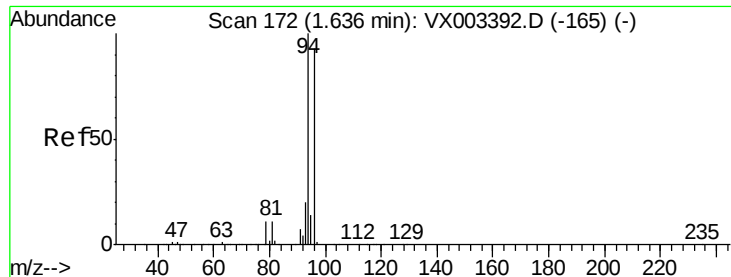
52 40.6 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003406.D

Acq: 16 Jul 2018 22:47

Instrument :

MSVOA_X

ClientSampleId :

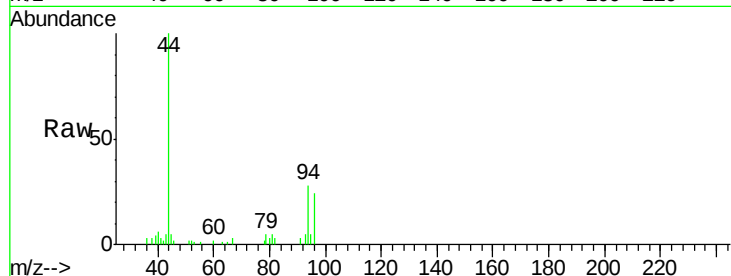
PB111123ZHE#14

Tot Ion: 94 Resp: 2561

Ion Ratio Lower Upper

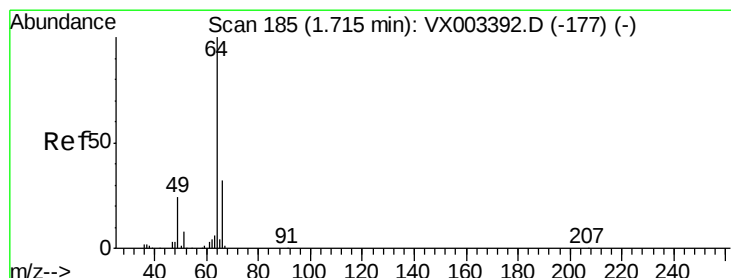
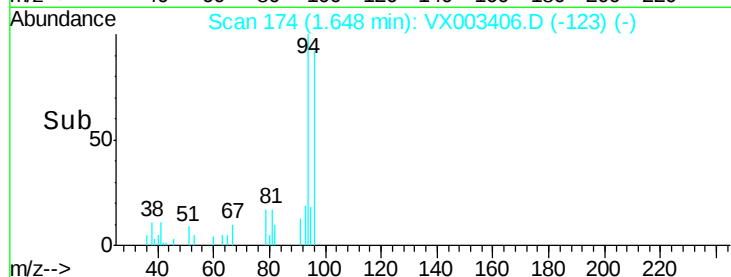
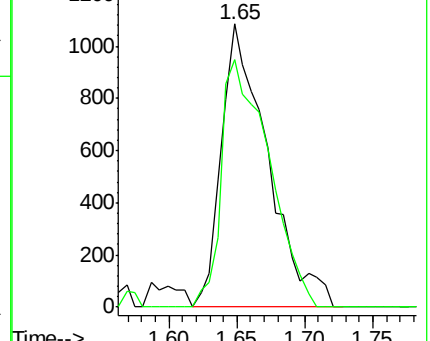
94 100

96 87.3 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.61 min Scan# 168

Delta R.T. -0.10 min

Lab File: VX003406.D

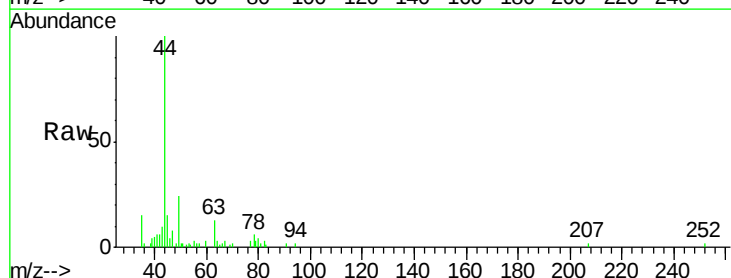
Acq: 16 Jul 2018 22:47

Tgt Ion: 64 Resp: 126

Ion Ratio Lower Upper

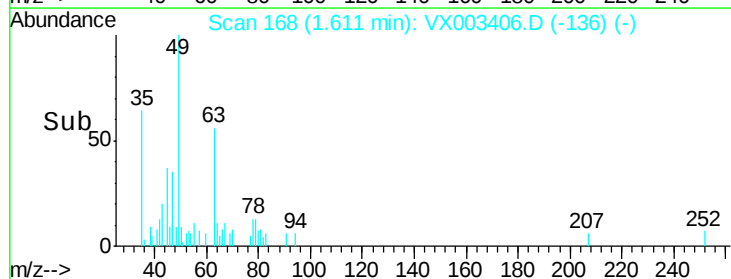
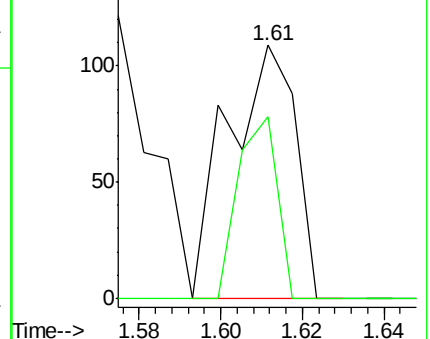
64 100

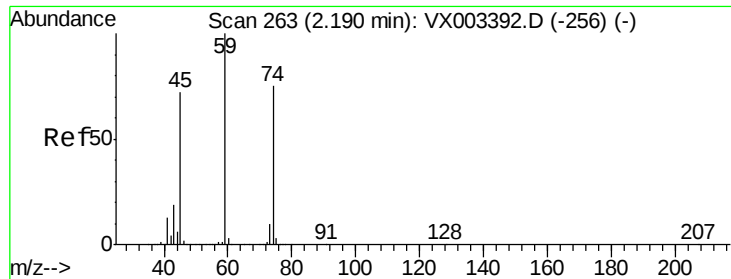
66 71.6 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#8

Diethyl Ether

Concen: 0.20 ug/l

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX003406.D

Acq: 16 Jul 2018 22:47

Instrument :

MSVOA_X

ClientSampleId :

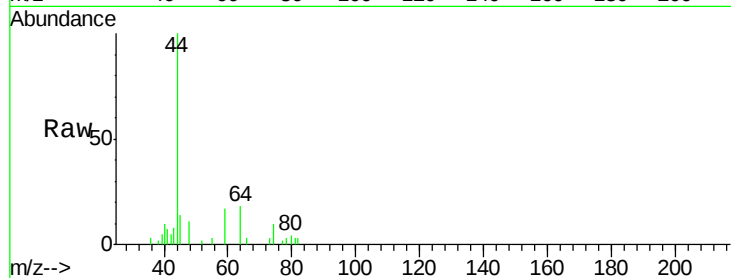
PB111123ZHE#14

Tot Ion: 74 Resp: 390

Ion Ratio Lower Upper

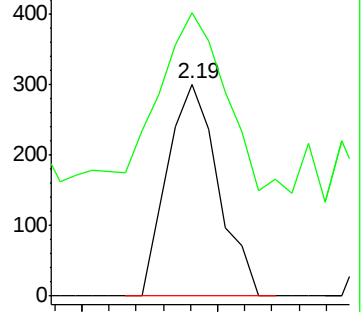
74 100

45 109.7 53.1 159.4

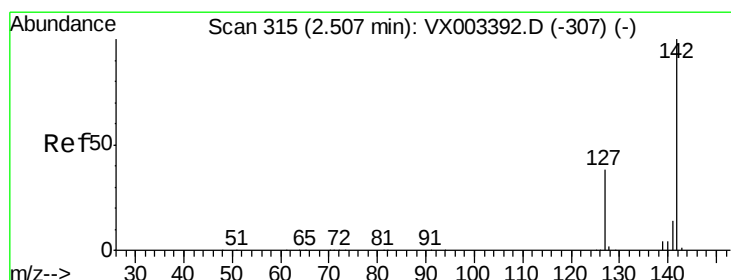
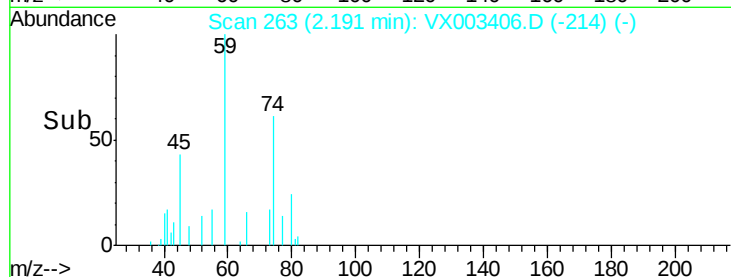


Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



Time-->



#10

Methyl Iodide

Concen: 0.67 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003406.D

Acq: 16 Jul 2018 22:47

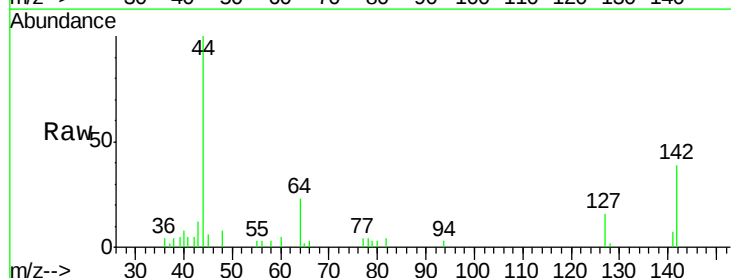
Tgt Ion: 142 Resp: 2026

Ion Ratio Lower Upper

142 100

127 37.8 36.6 55.0

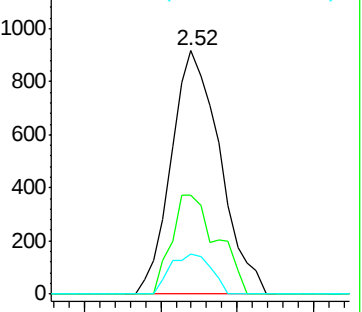
141 13.8 11.3 16.9



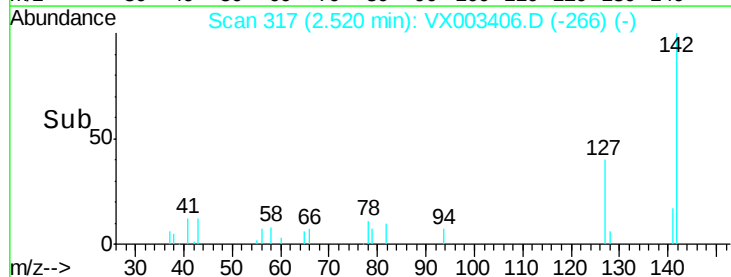
Abundance Ion 141.80 (141.50 to 142.50): V

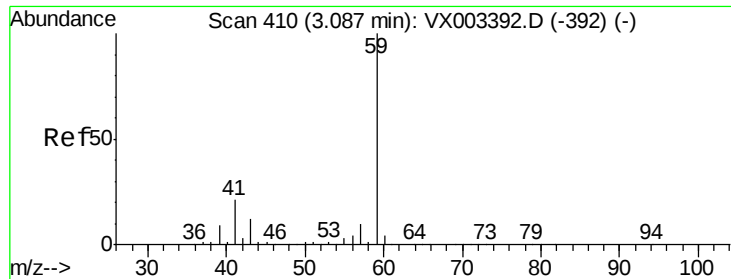
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->

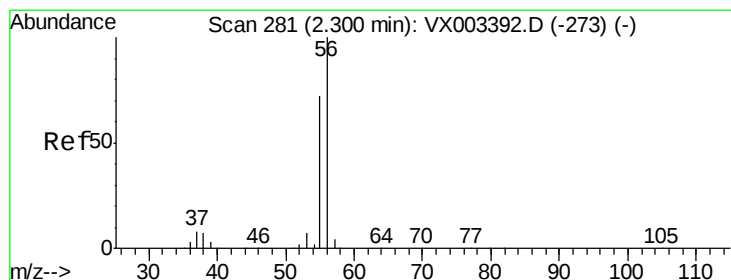
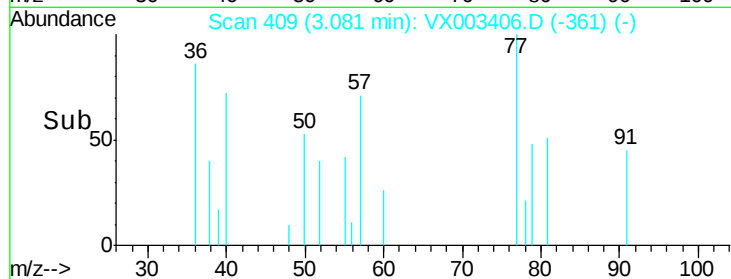
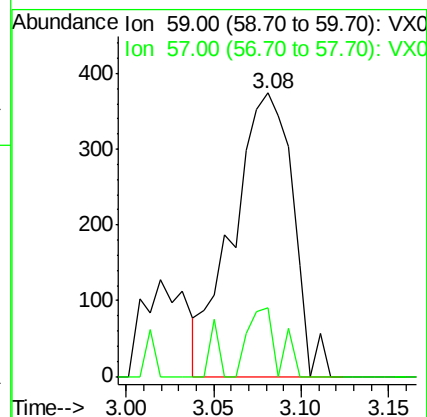
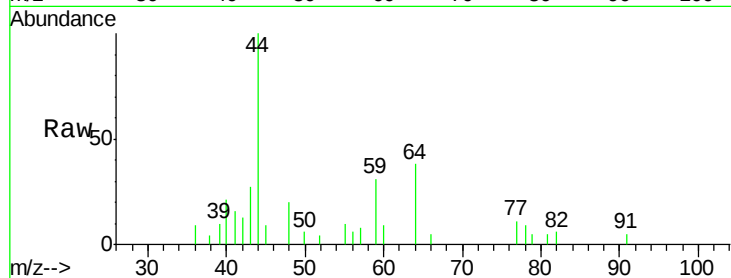




#11
Tert butyl alcohol
Concen: 1.20 ug/l
RT: 3.08 min Scan# 409
Delta R.T. -0.01 min
Lab File: VX003406.D
Acq: 16 Jul 2018 22:47

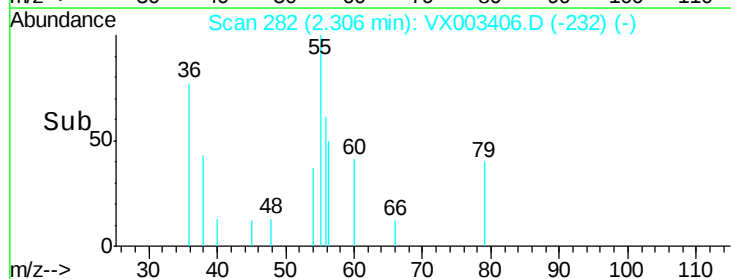
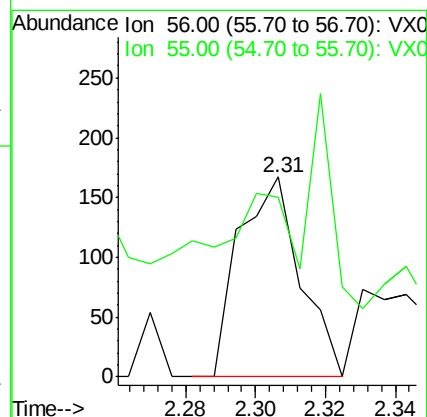
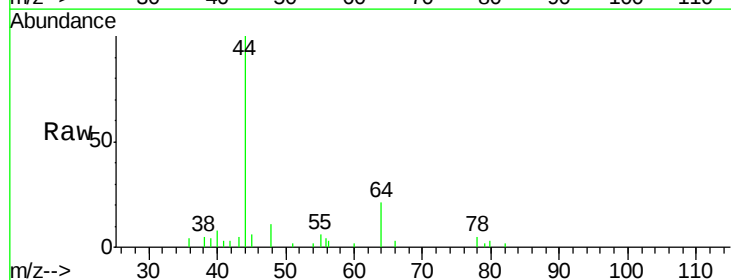
Instrument :
MSVOA_X
ClientSampleId :
PB111123ZHE#14

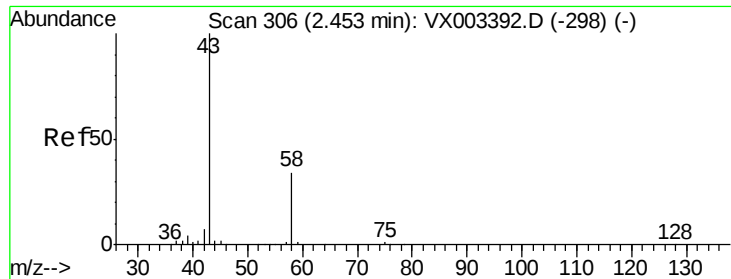
Tot Ion: 59 Resp: 888
Ion Ratio Lower Upper
59 100
57 12.2 8.2 12.2



#13
Acrolein
Concen: 0.57 ug/l
RT: 2.31 min Scan# 282
Delta R.T. 0.01 min
Lab File: VX003406.D
Acq: 16 Jul 2018 22:47

Tgt Ion: 56 Resp: 203
Ion Ratio Lower Upper
56 100
55 58.1 57.0 85.4





#16

Acetone

Concen: 19.68 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX003406.D

Acq: 16 Jul 2018 22:47

Instrument :

MSVOA_X

ClientSampleId :

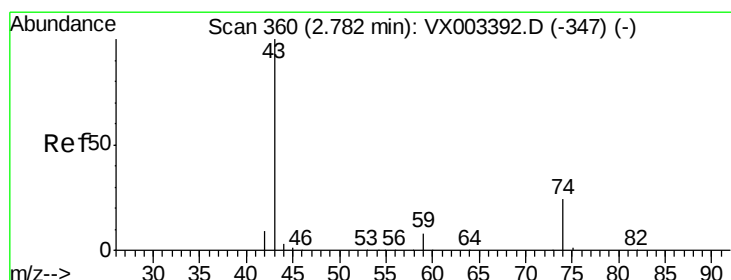
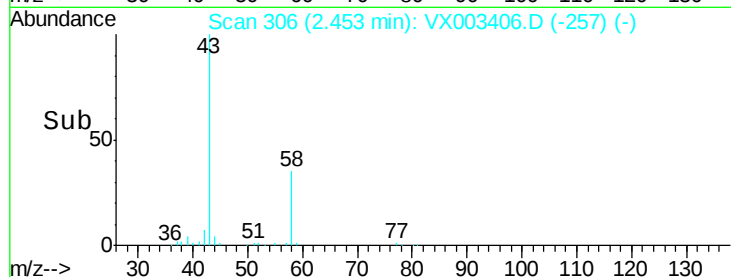
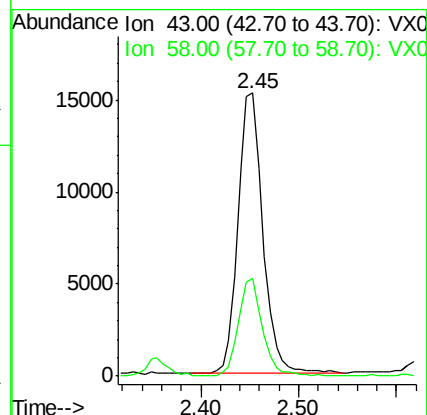
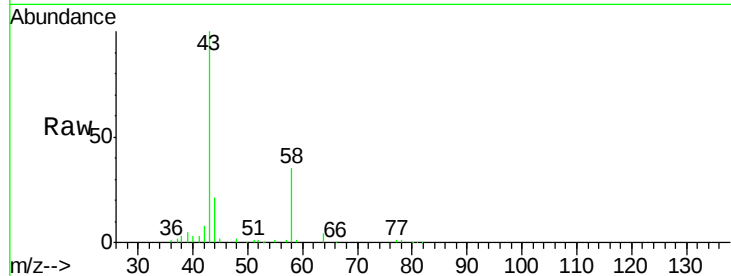
PB111123ZHE#14

Tot Ion: 43 Resp: 27010

Ion Ratio Lower Upper

43 100

58 34.9 22.1 33.1#



#18

Methyl Acetate

Concen: 2.22 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX003406.D

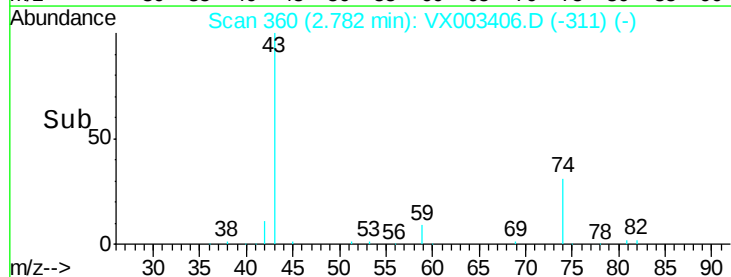
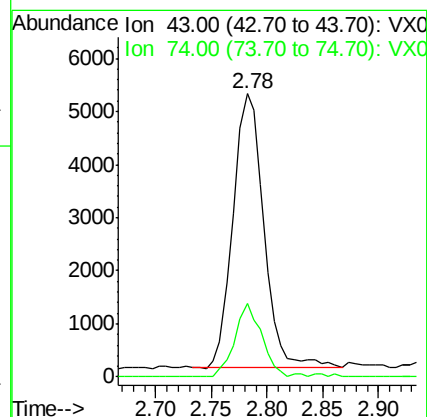
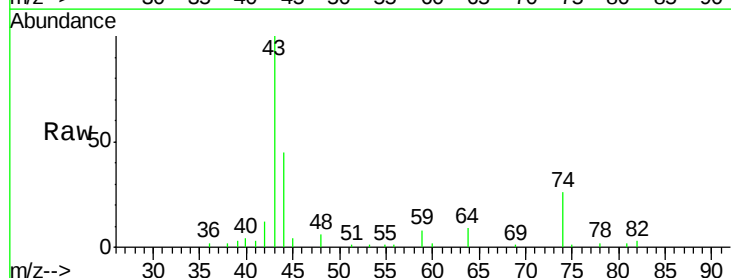
Acq: 16 Jul 2018 22:47

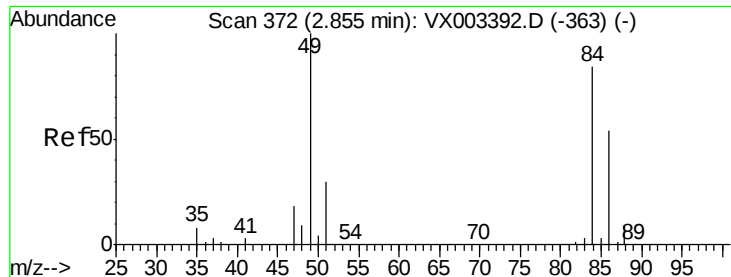
Tgt Ion: 43 Resp: 9937

Ion Ratio Lower Upper

43 100

74 23.2 16.7 25.1

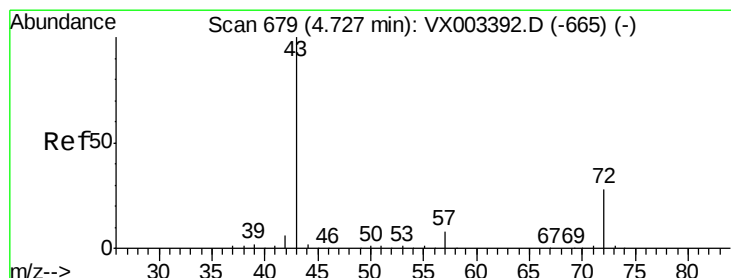
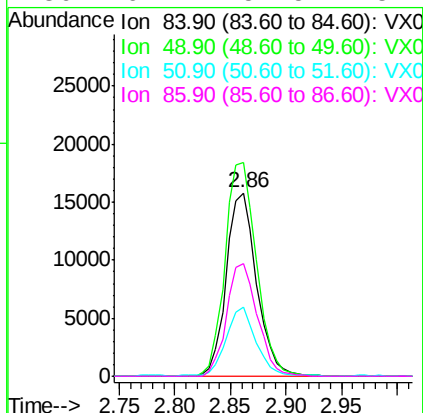
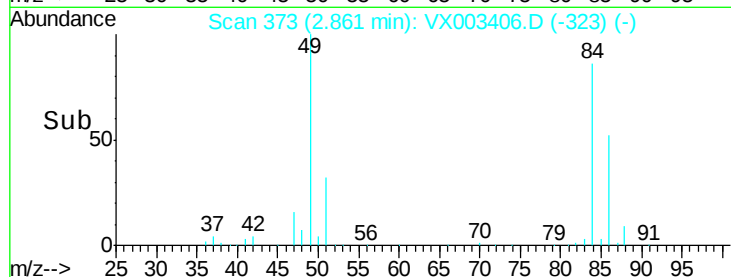
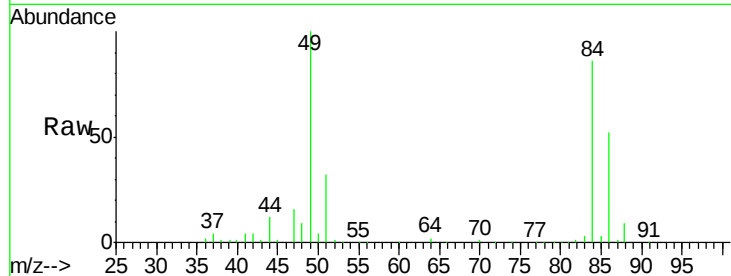




#20
Methvlene Chloride
Concen: 9.58 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX003406.D
Acq: 16 Jul 2018 22:47

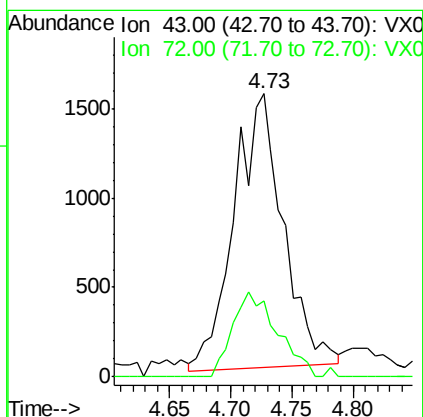
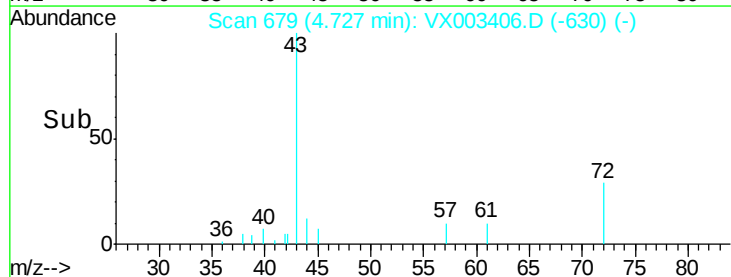
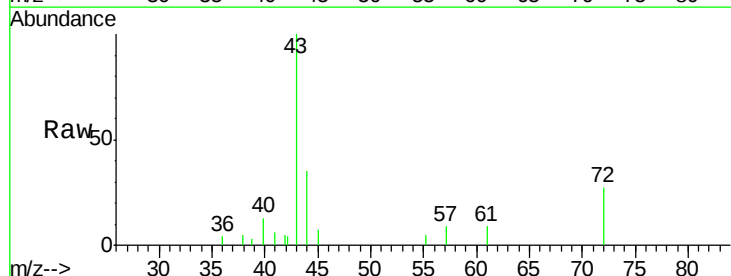
Instrument :
MSVOA_X
ClientSampleId :
PB111123ZHE#14

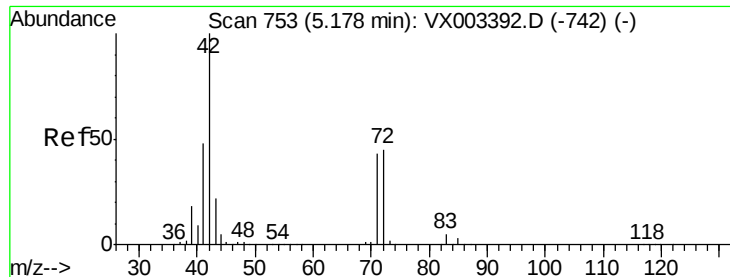
Tot Ion: 84 Resp: 29939
Ion Ratio Lower Upper
84 100
49 116.5 107.8 161.6
51 37.7 32.8 49.2
86 61.1 52.5 78.7



#25
2-Butanone
Concen: 2.00 ug/l
RT: 4.73 min Scan# 679
Delta R.T. 0.00 min
Lab File: VX003406.D
Acq: 16 Jul 2018 22:47

Tgt Ion: 43 Resp: 4289
Ion Ratio Lower Upper
43 100
72 28.2 18.5 27.7#





#29

Tetrahydrofuran

Concen: 0.90 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.00 min

Lab File: VX003406.D

Acq: 16 Jul 2018 22:47

Instrument :

MSVOA_X

ClientSampleId :

PB111123ZHE#14

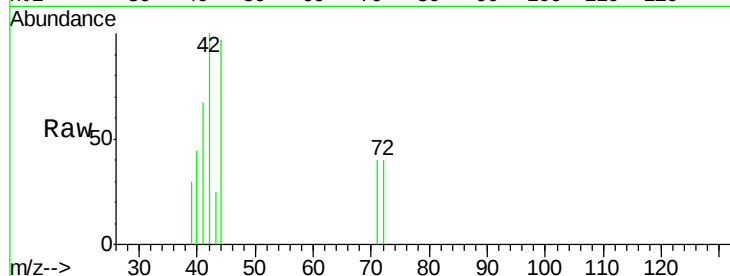
Tot Ion: 42 Resp: 1224

Ion Ratio Lower Upper

42 100

72 42.8 32.0 48.0

71 33.0 30.1 45.1



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

5.18

400

300

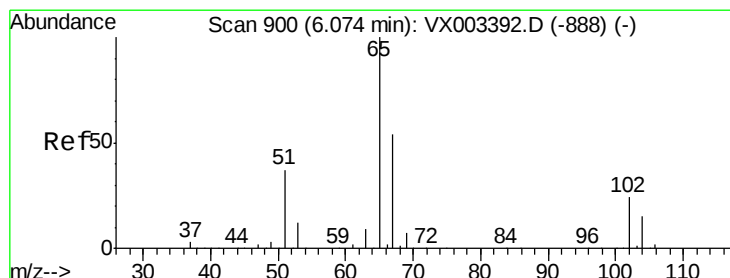
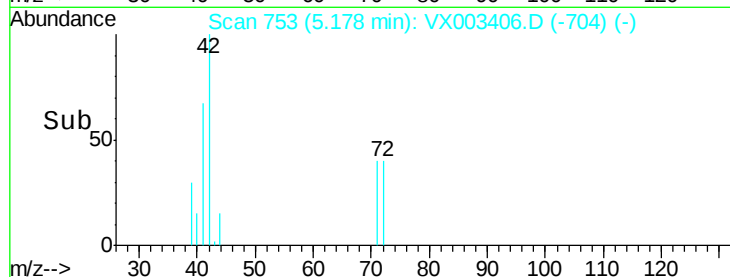
200

100

0

5.10 5.15 5.20 5.25

Time-->



#33

1,2-Dichloroethane-d4

Concen: 50.20 ug/l

RT: 6.08 min Scan# 901

Delta R.T. 0.01 min

Lab File: VX003406.D

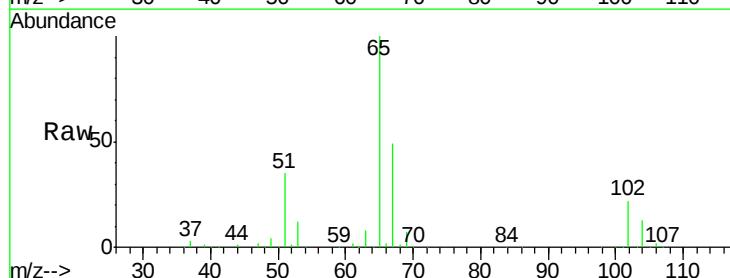
Acq: 16 Jul 2018 22:47

Tgt Ion: 65 Resp: 165684

Ion Ratio Lower Upper

65 100

67 54.1 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

60000

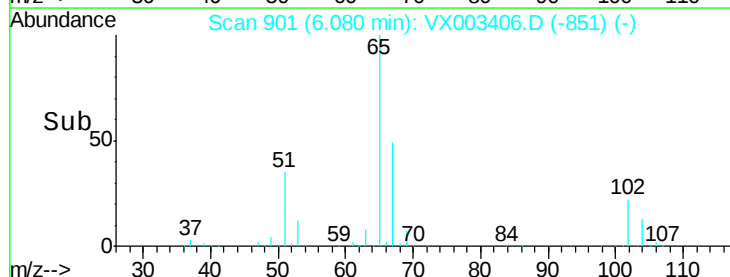
40000

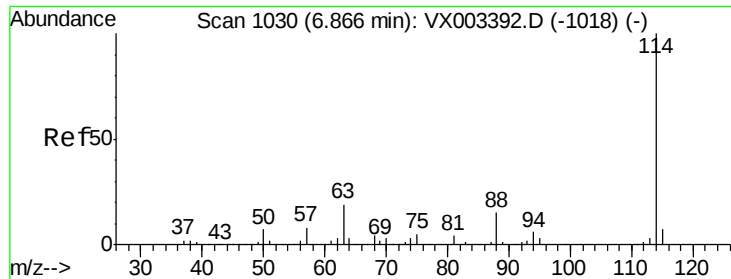
20000

0

6.00 6.10 6.20

Time-->





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX003406.D

Acq: 16 Jul 2018 22:47

Instrument :

MSVOA_X

ClientSampleId :

PB111123ZHE#14

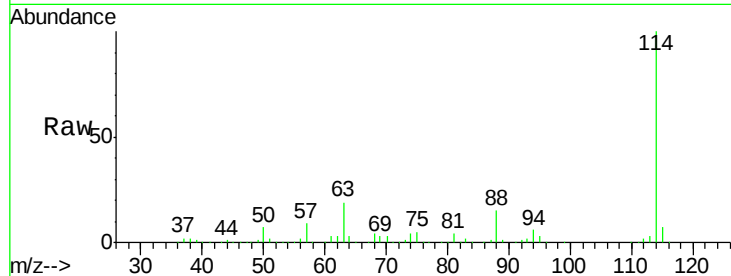
Tot Ion:114 Resp: 370329

Ion Ratio Lower Upper

114 100

63 19.2 0.0 41.4

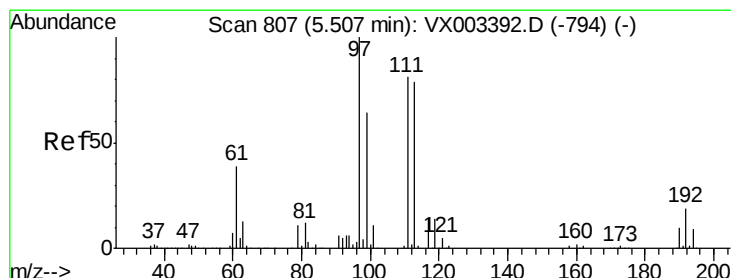
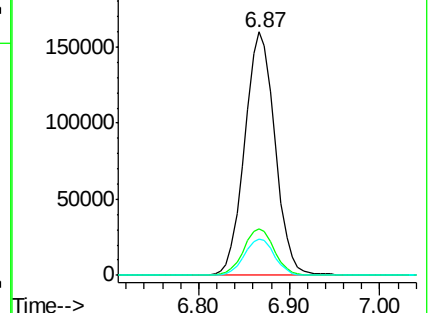
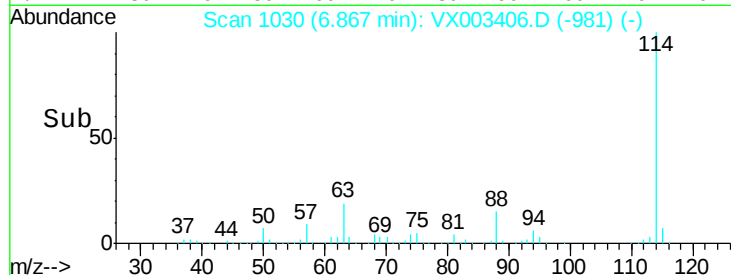
88 15.1 0.0 30.0



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: 48.11 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003406.D

Acq: 16 Jul 2018 22:47

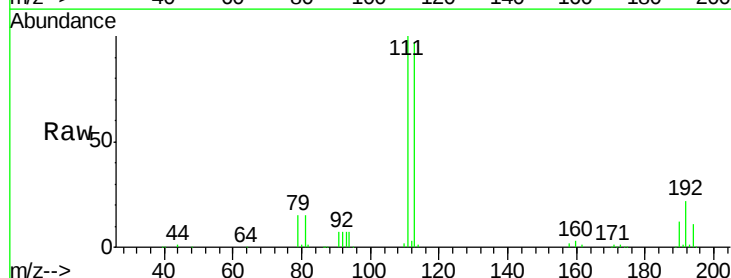
Tgt Ion:113 Resp: 144143

Ion Ratio Lower Upper

113 100

111 102.2 81.4 122.0

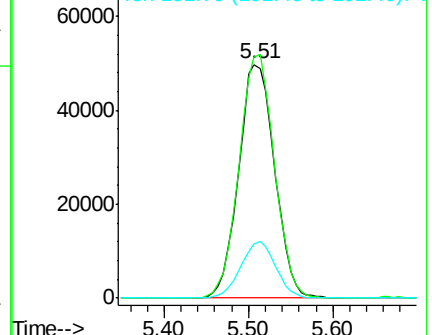
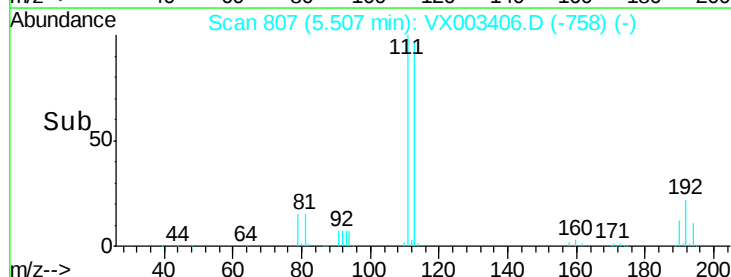
192 23.5 19.1 28.7

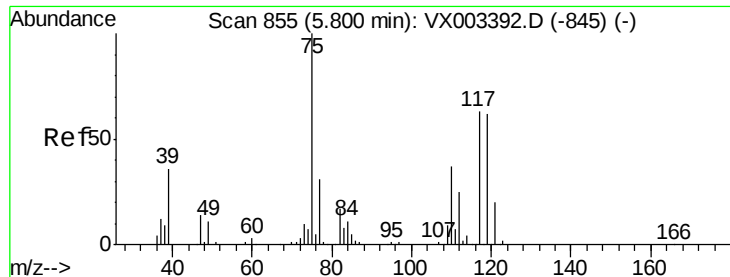


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

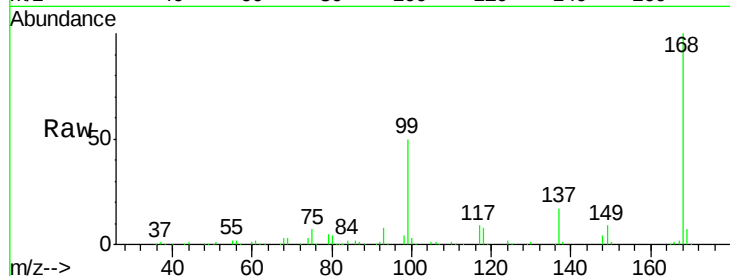




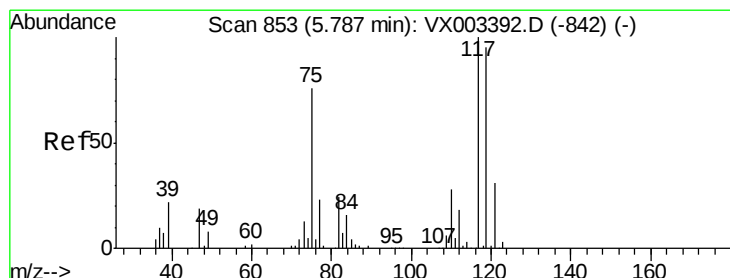
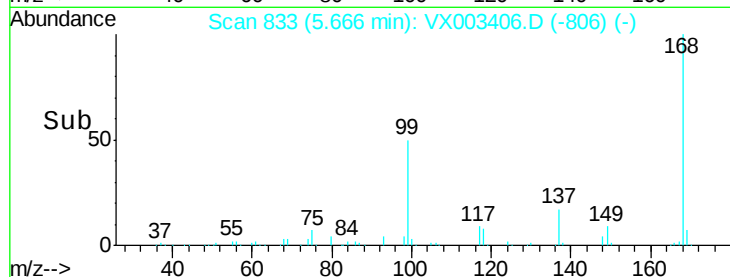
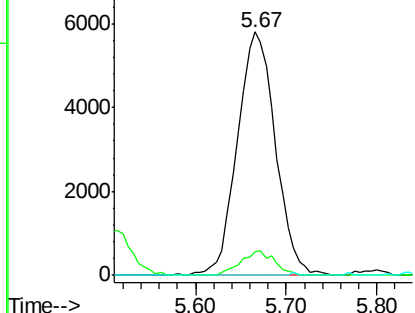
#36
 1,1-Dichloropropene
 Concen: 4.49 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX003406.D
 Acq: 16 Jul 2018 22:47

Instrument :
 MSVOA_X
 ClientSampleId :
 PB111123ZHE#14

Tot Ion	75	Resp	16848
Ion Ratio	Lower	Upper	
75	100		
110	8.9	18.1	54.4#
77	0.0	24.3	36.5#

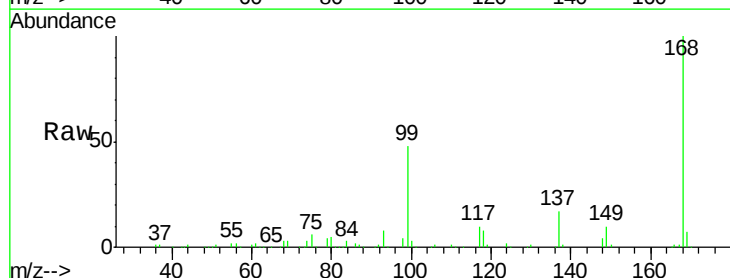


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

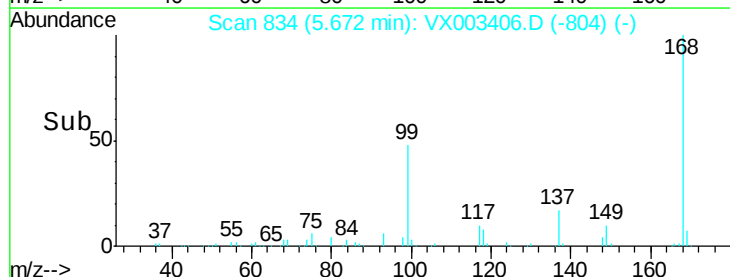
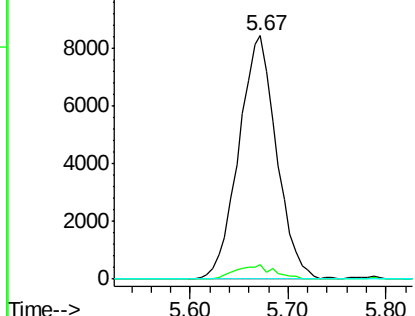


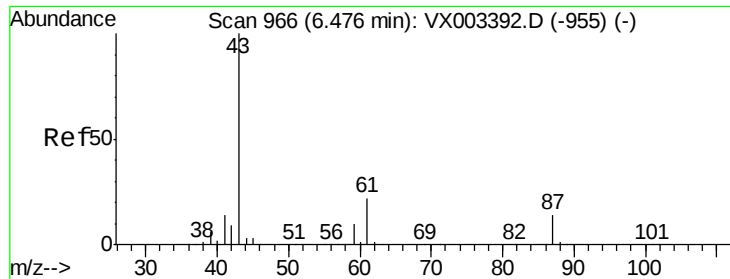
#38
 Carbon Tetrachloride
 Concen: 5.92 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX003406.D
 Acq: 16 Jul 2018 22:47

Tgt Ion	117	Resp	22609
Ion Ratio	Lower	Upper	
117	100		
119	5.7	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



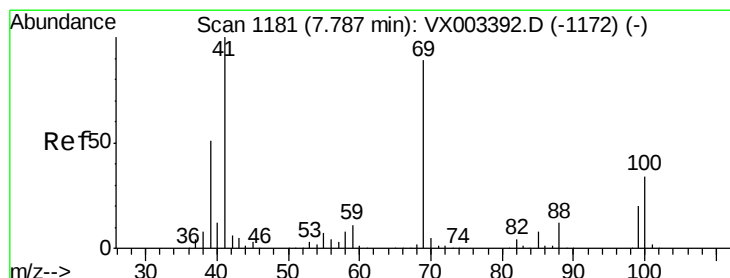
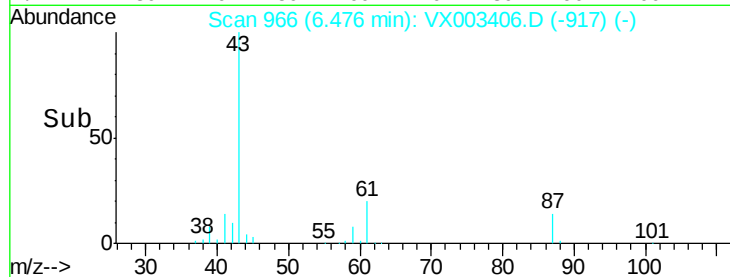
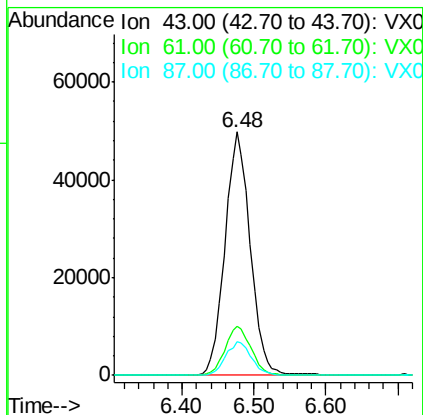
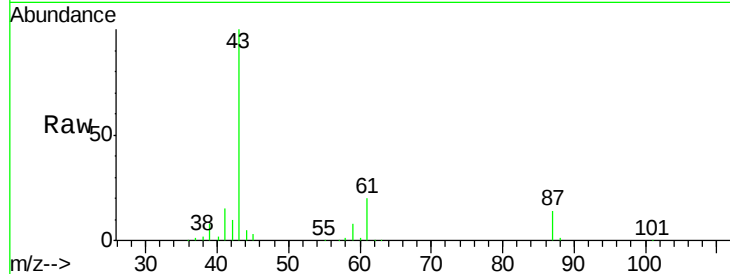


#43

Isopropyl Acetate
 Concen: 19.13 ug/l
 RT: 6.48 min Scan# 966
 Delta R.T. 0.00 min
 Lab File: VX003406.D
 Acq: 16 Jul 2018 22:47

Instrument :
 MSVOA_X
 ClientSampleId :
 PB111123ZHE#14

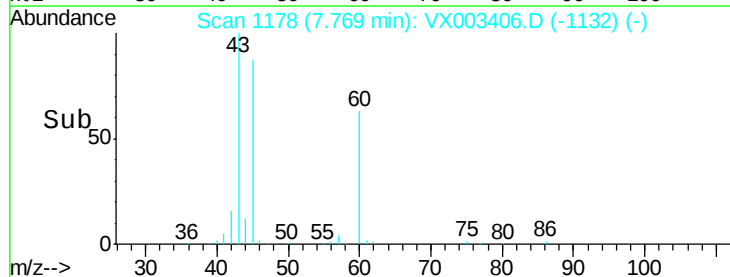
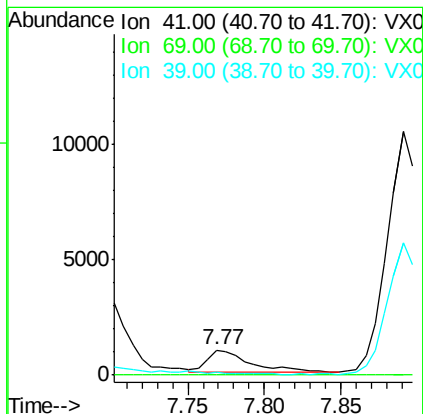
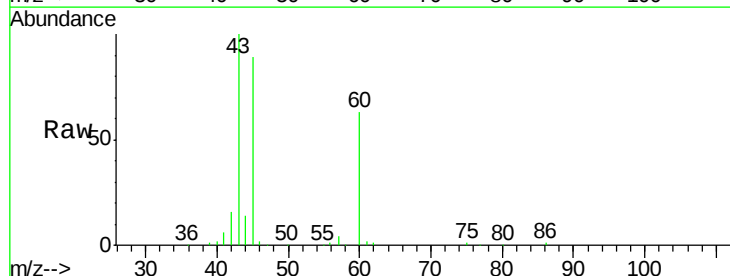
Tot Ion: 43 Resp: 121992
 Ion Ratio Lower Upper
 43 100
 61 20.5 14.4 21.6
 87 14.1 9.5 14.3

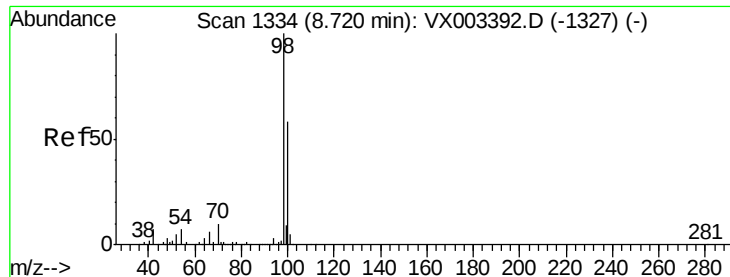


#48

Methyl methacrylate
 Concen: 0.59 ug/l
 RT: 7.77 min Scan# 1178
 Delta R.T. -0.02 min
 Lab File: VX003406.D
 Acq: 16 Jul 2018 22:47

Tgt Ion: 41 Resp: 1924
 Ion Ratio Lower Upper
 41 100
 69 0.0 59.1 88.7#
 39 0.0 48.9 73.3#





#50

Toluene-d8

Concen: 54.26 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003406.D

Acq: 16 Jul 2018 22:47

Instrument :

MSVOA_X

ClientSampleId :

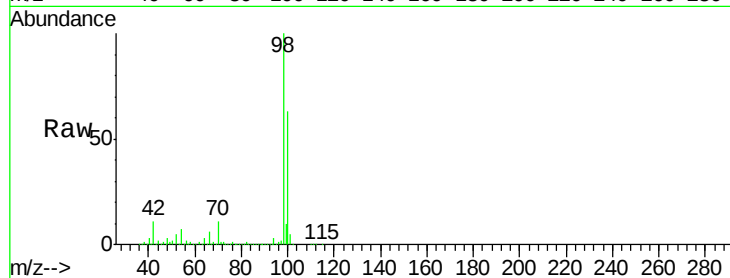
PB111123ZHE#14

Tot Ion: 98 Resp: 599988

Ion Ratio Lower Upper

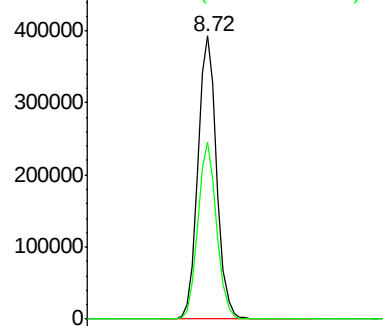
98 100

100 62.4 50.9 76.3

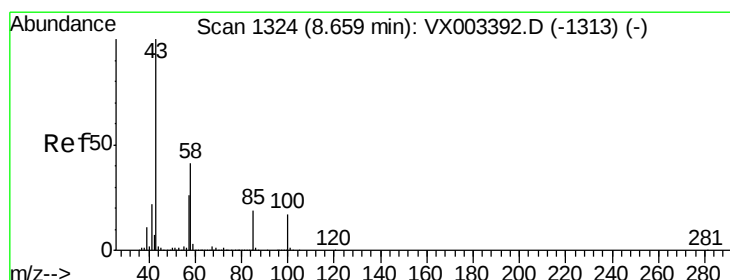
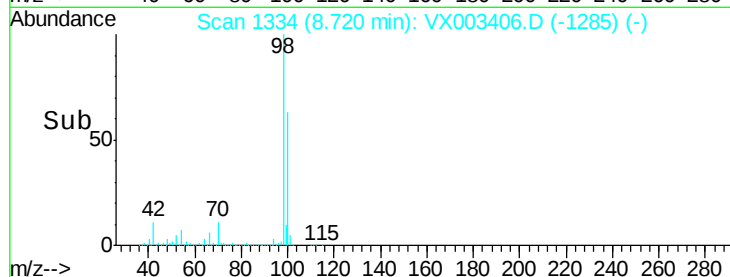


Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.43 ug/l

RT: 8.66 min Scan# 1324

Delta R.T. 0.00 min

Lab File: VX003406.D

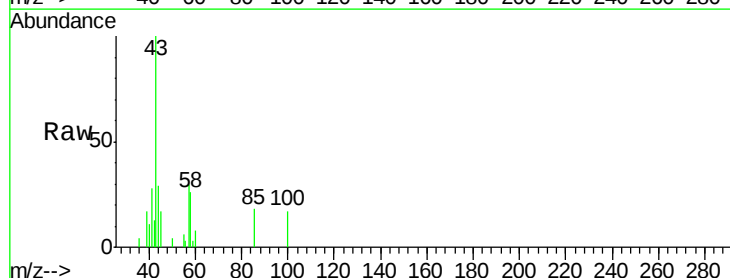
Acq: 16 Jul 2018 22:47

Tgt Ion: 43 Resp: 1800

Ion Ratio Lower Upper

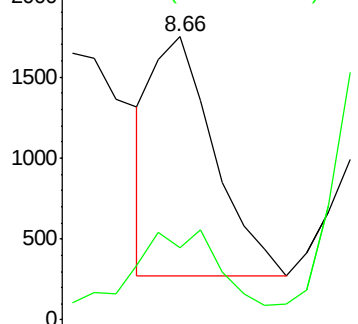
43 100

58 63.4 28.6 42.8#

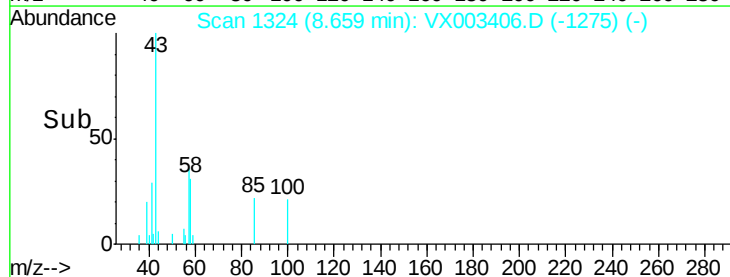


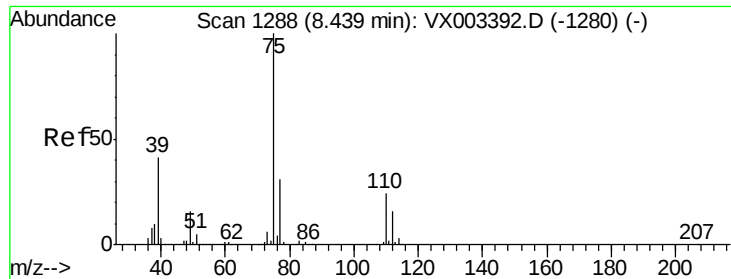
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->

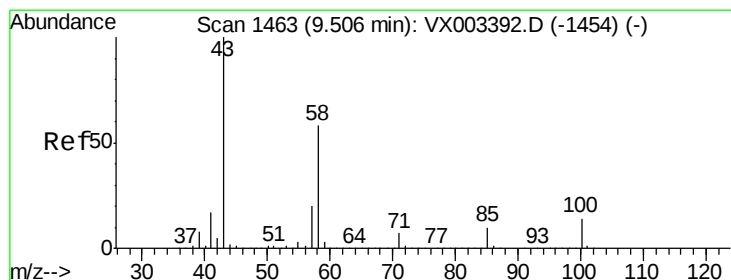
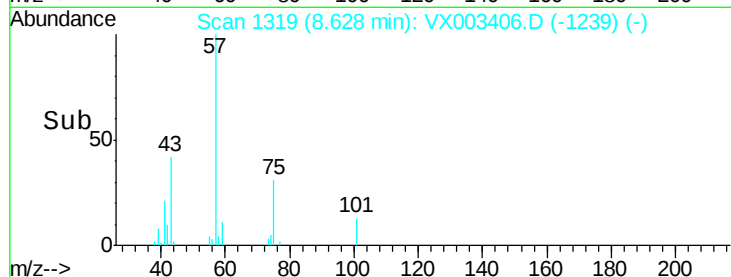
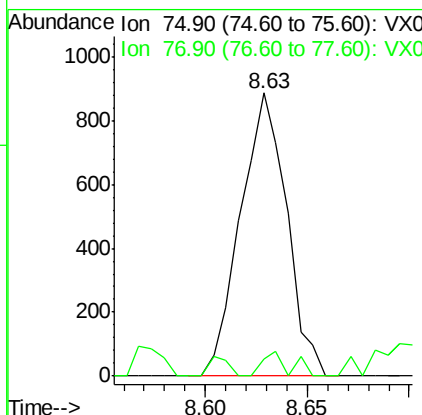
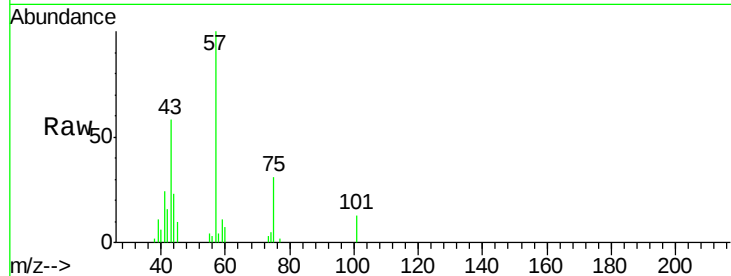




#53
t-1,3-Dichloropropene
Concen: 0.33 ug/l
RT: 8.63 min Scan# 1319
Delta R.T. 0.19 min
Lab File: VX003406.D
Acq: 16 Jul 2018 22:47

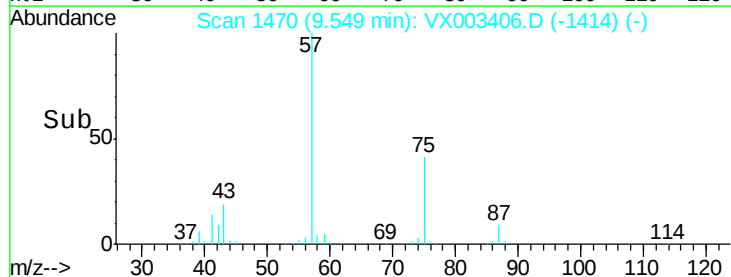
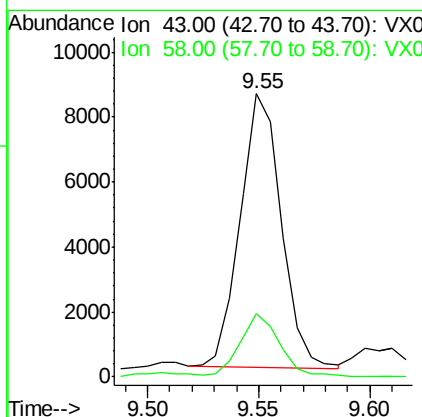
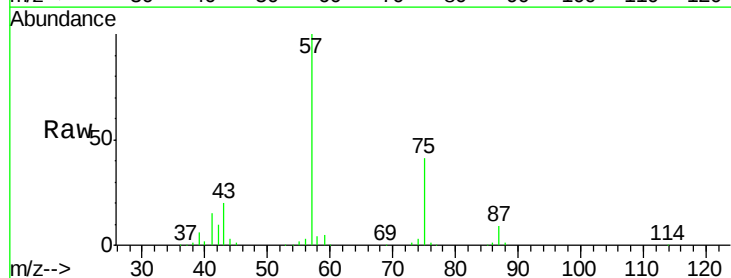
Instrument :
MSVOA_X
ClientSampleId :
PB111123ZHE#14

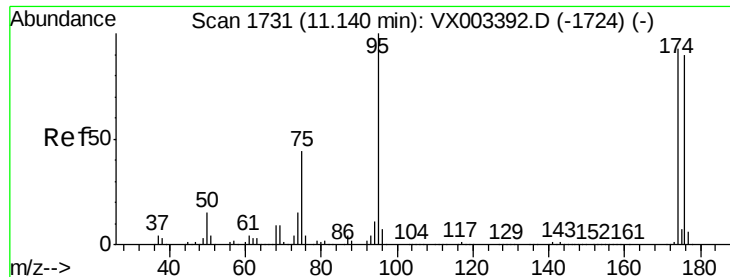
Tot Ion: 75 Resp: 1393
Ion Ratio Lower Upper
75 100
77 6.0 25.4 38.2#



#59
2-Hexanone
Concen: 3.36 ug/l
RT: 9.55 min Scan# 1470
Delta R.T. 0.04 min
Lab File: VX003406.D
Acq: 16 Jul 2018 22:47

Tgt Ion: 43 Resp: 10846
Ion Ratio Lower Upper
43 100
58 22.5 24.6 73.6#





#62

4-Bromofluorobenzene

Concen: 48.03 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003406.D

Acq: 16 Jul 2018 22:47

Instrument :

MSVOA_X

ClientSampleId :

PB111123ZHE#14

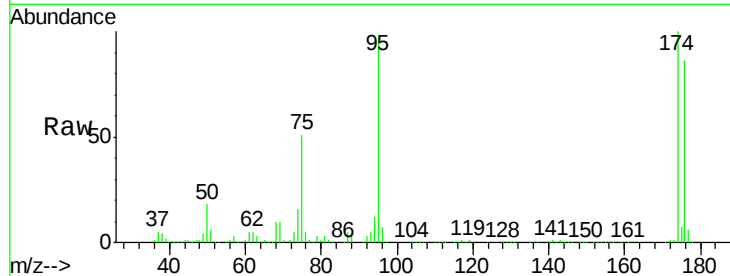
Tot Ion: 95 Resp: 189611

Ion Ratio Lower Upper

95 100

174 100.7 0.0 187.4

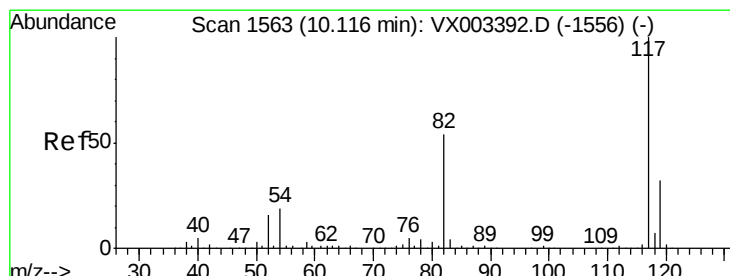
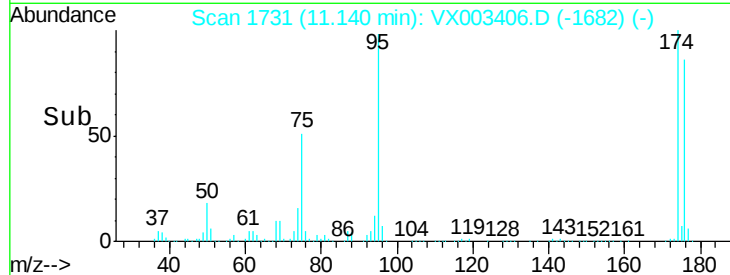
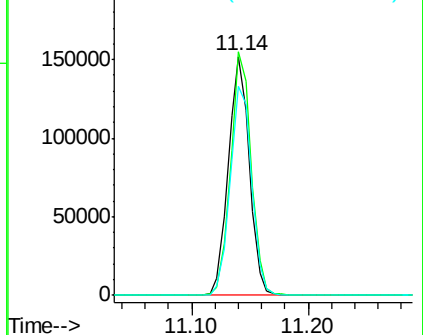
176 90.3 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX003406.D (-1682) (-)

Ion 173.80 (173.50 to 174.50): VX003406.D (-1682) (-)

Ion 175.80 (175.50 to 176.50): VX003406.D (-1682) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX003406.D

Acq: 16 Jul 2018 22:47

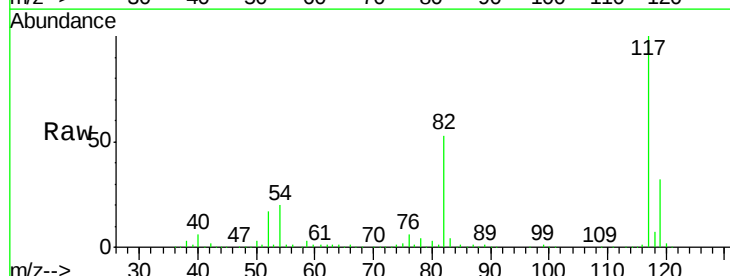
Tgt Ion: 117 Resp: 343407

Ion Ratio Lower Upper

117 100

82 53.0 45.0 67.4

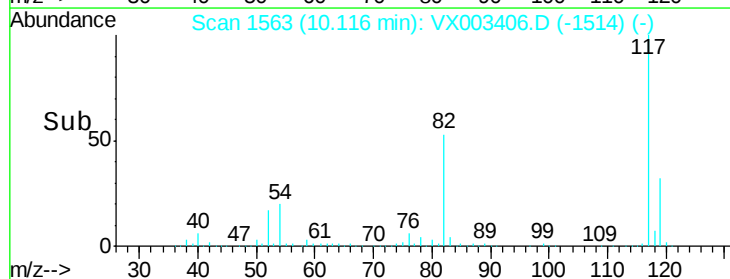
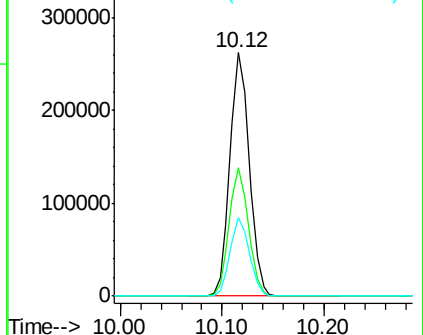
119 32.0 25.8 38.6

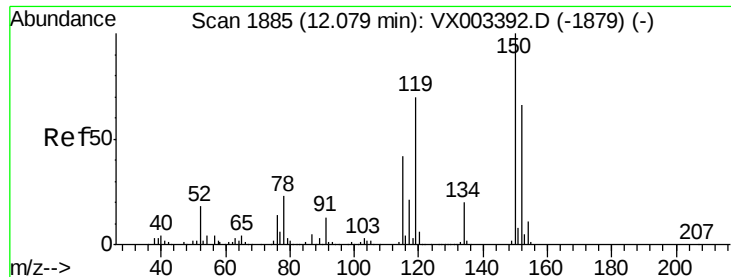


Abundance Ion 116.90 (116.60 to 117.60): VX003406.D (-1514) (-)

Ion 82.00 (81.70 to 82.70): VX003406.D (-1514) (-)

Ion 118.90 (118.60 to 119.60): VX003406.D (-1514) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.01 min

Lab File: VX003406.D

Acq: 16 Jul 2018 22:47

Instrument :

MSVOA_X

ClientSampleId :

PB111123ZHE#14

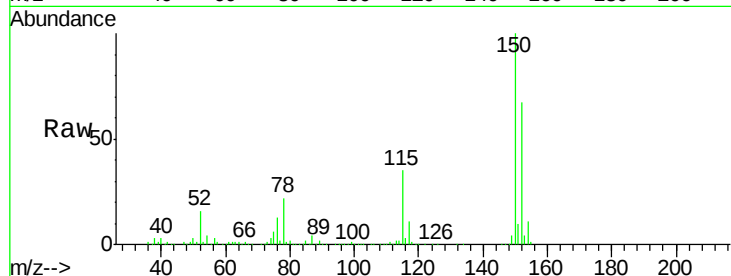
Tot Ion:152 Resp: 198875

Ion Ratio Lower Upper

152 100

115 55.6 40.1 120.2

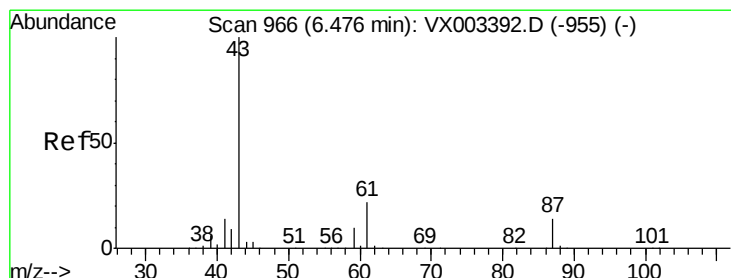
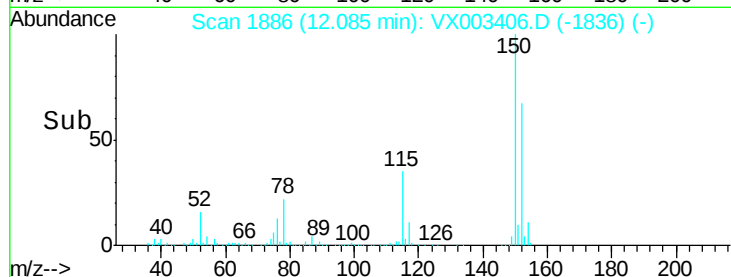
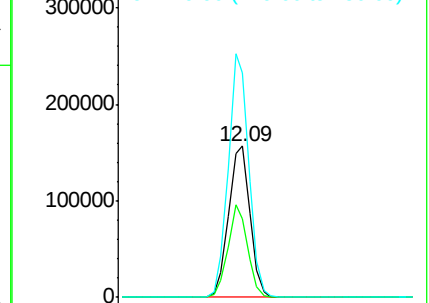
150 154.1 0.0 347.2



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



#74

N-ethyl acetate

Concen: 19.92 ug/l

RT: 6.48 min Scan# 966

Delta R.T. 0.00 min

Lab File: VX003406.D

Acq: 16 Jul 2018 22:47

Tgt Ion: 43 Resp: 121992

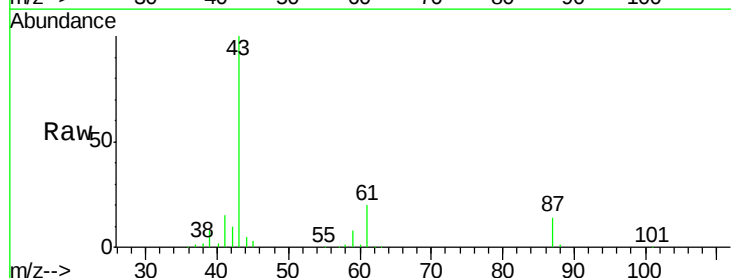
Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 0.1 0.0 0.0#

61 20.5 14.4 21.6

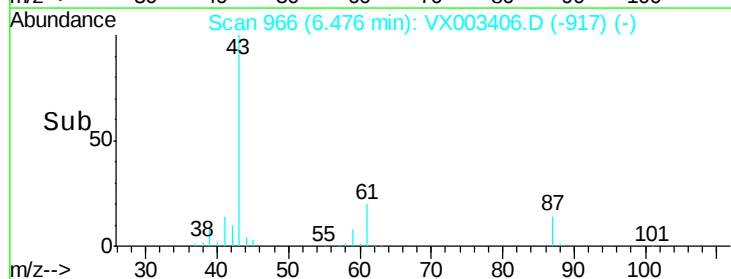
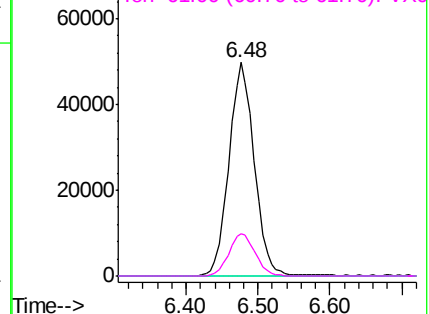


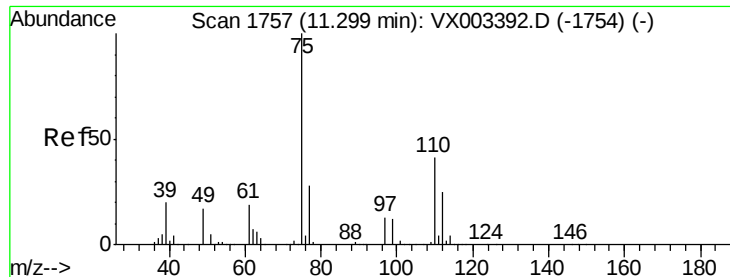
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 26.47 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003406.D

Acq: 16 Jul 2018 22:47

Instrument :

MSVOA_X

ClientSampleId :

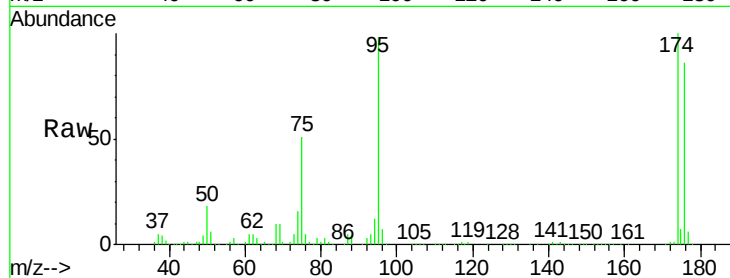
PB111123ZHE#14

Tot Ion: 75 Resp: 95297

Ion Ratio Lower Upper

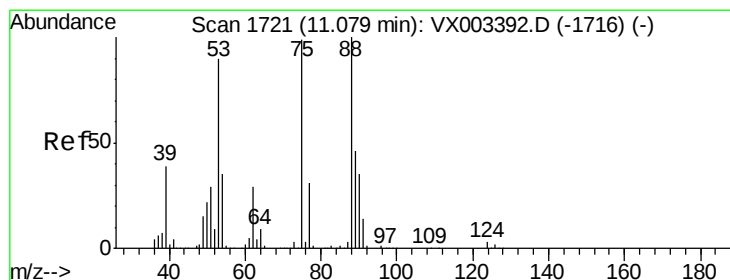
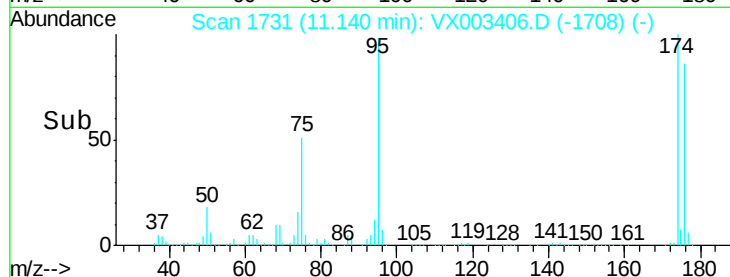
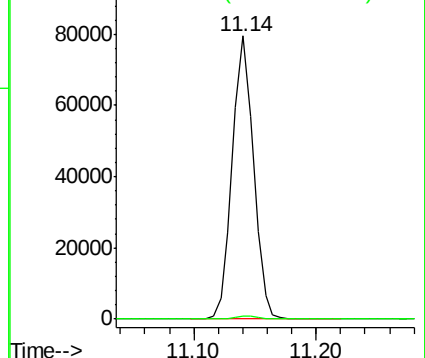
75 100

77 1.2 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: 85.99 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003406.D

Acq: 16 Jul 2018 22:47

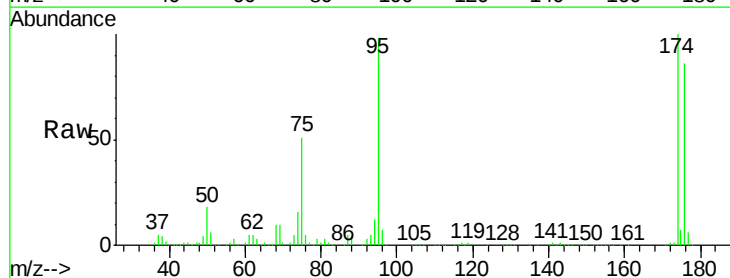
Tgt Ion: 75 Resp: 95297

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

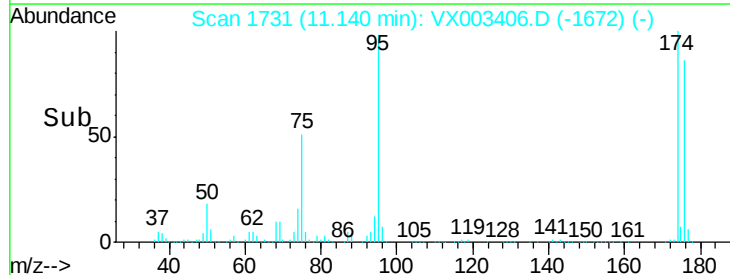
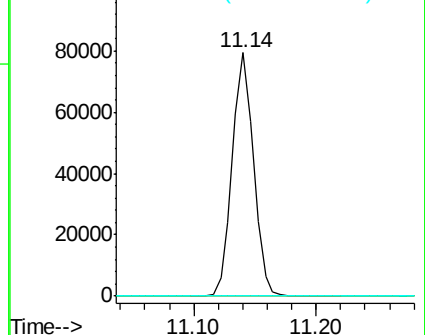
89 0.0 38.2 57.2#

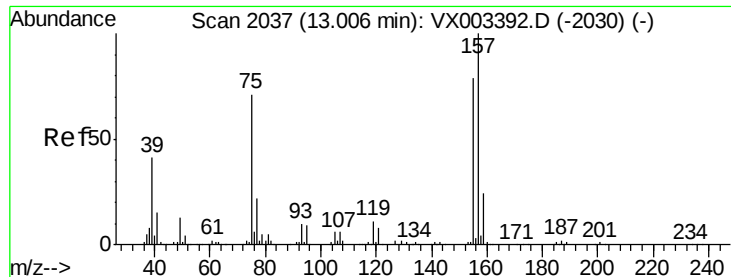


Abundance Ion 74.90 (74.60 to 75.60): VX0

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: 0.29 ug/l

RT: 12.98 min Scan# 2032

Delta R.T. -0.03 min

Lab File: VX003406.D

Acq: 16 Jul 2018 22:47

Instrument :

MSVOA_X

ClientSampleId :

PB111123ZHE#14

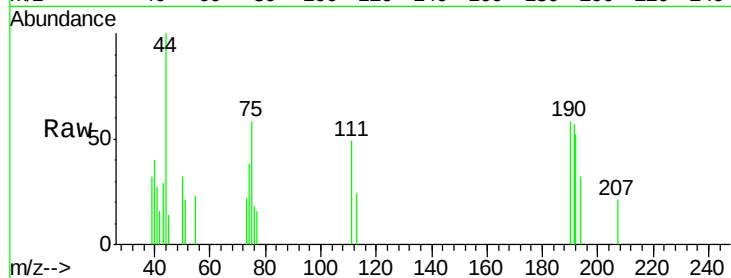
Tot Ion: 75 Resp: 250

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

