

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071618\
 Data File : VX003412.D
 Acq On : 17 Jul 2018 01:29
 Operator : JC/MD
 Sample : PB111123ZHE#20
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB111123ZHE#20

Quant Time: Jul 17 02:02:01 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	272262	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	384977	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	346878	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	211043	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	169180	47.45	ug/l	0.00
Spiked Amount			Recovery	=	94.90%	
35) Dibromofluoromethane	5.51	113	150033	48.17	ug/l	0.00
Spiked Amount			Recovery	=	96.34%	
50) Toluene-d8	8.72	98	610137	53.08	ug/l	0.00
Spiked Amount			Recovery	=	106.16%	
62) 4-Bromofluorobenzene	11.14	95	197278	48.07	ug/l	0.00
Spiked Amount			Recovery	=	96.14%	

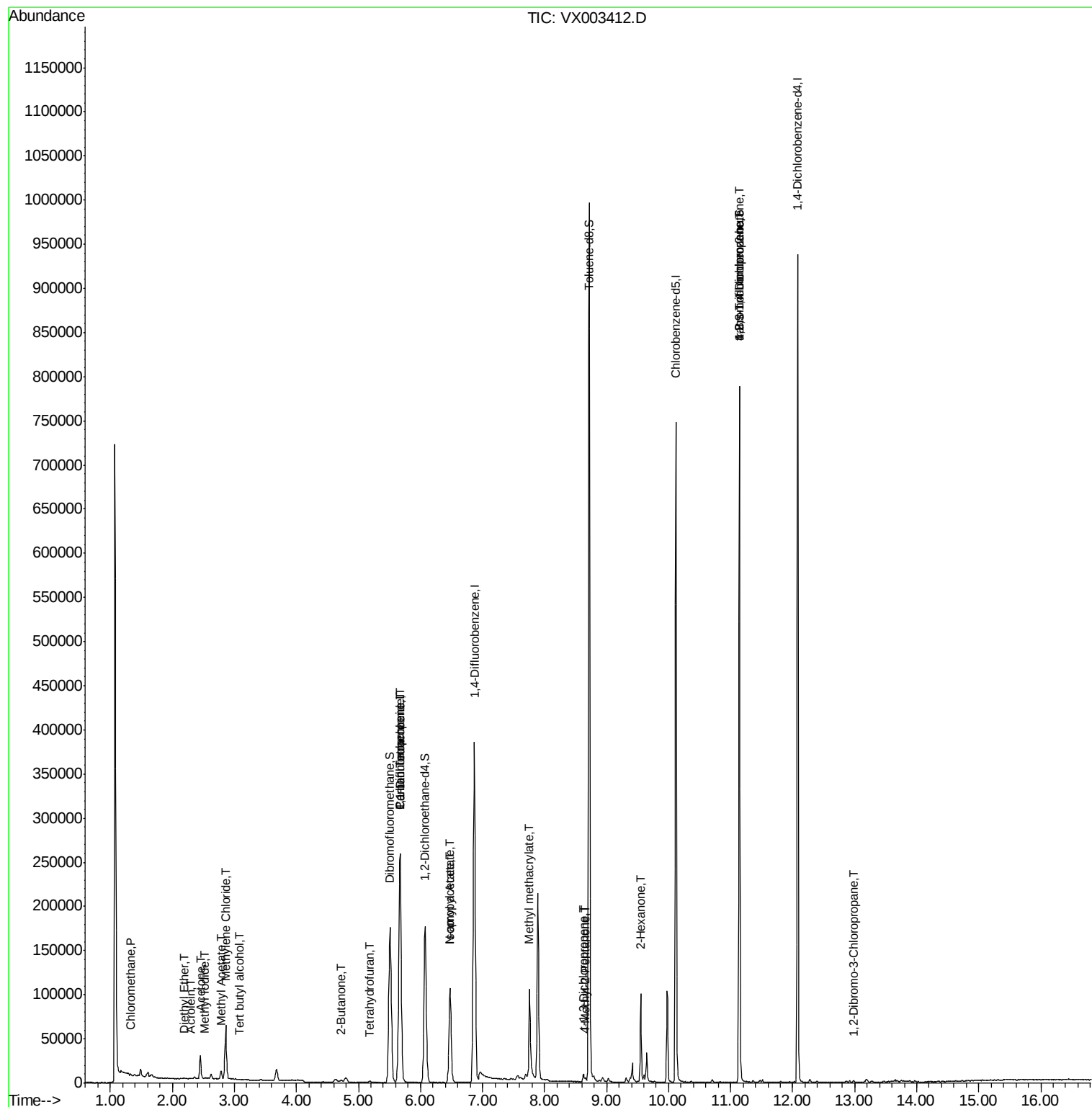
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	810	0.24	ug/l	98
5) Bromomethane	1.65	94	2163	Below Cal		92
6) Chloroethane	1.73	64	97	Below Cal	#	43
8) Diethyl Ether	2.19	74	417	0.20	ug/l	69
10) Methyl Iodide	2.53	142	1179	0.36	ug/l	92
11) Tert butyl alcohol	3.08	59	940	1.17	ug/l	# 91
13) Acrolein	2.30	56	293	0.76	ug/l	86
16) Acetone	2.45	43	29237	19.71	ug/l	89
18) Methyl Acetate	2.78	43	11852	2.45	ug/l	91
20) Methylene Chloride	2.86	84	28775	7.94	ug/l	90
25) 2-Butanone	4.72	43	5347	2.30	ug/l	# 85
29) Tetrahydrofuran	5.18	42	1349	0.92	ug/l	# 66
36) 1,1-Dichloropropene	5.67	75	17320	4.44	ug/l	# 50
38) Carbon Tetrachloride	5.67	117	24165	6.09	ug/l	# 16
43) Isopropyl Acetate	6.48	43	131554	19.84	ug/l	94
48) Methyl methacrylate	7.76	41	3116	0.92	ug/l	# 16
51) 4-Methyl-2-Pentanone	8.65	43	1730	0.40	ug/l	# 31
53) t-1,3-Dichloropropene	8.63	75	1340	0.30	ug/l	# 43
59) 2-Hexanone	9.55	43	11567	3.45	ug/l	# 57
74) N-amyl acetate	6.48	43	131554	20.24	ug/l	# 94
76) 1,2,3-Trichloropropane	11.14	75	94094	24.63	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	94094	80.01	ug/l	# 7
92) 1,2-Dibromo-3-Chloropropan	12.97	75	296	0.32	ug/l	# 1

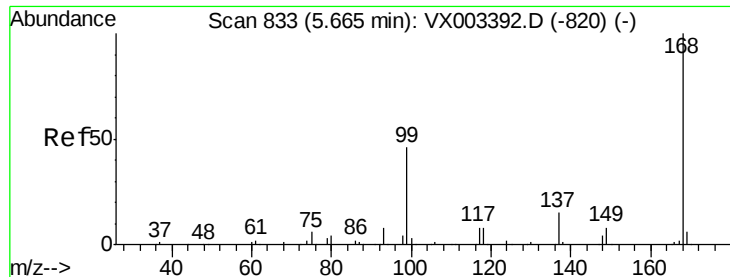
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX071618\
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Quant Time: Jul 17 02:02:01 2018
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# 834

Delta R.T. 0.01 min

Lab File: VX003412.D

Acq: 17 Jul 2018 01:29

Instrument :

MSVOA_X

ClientSampleId :

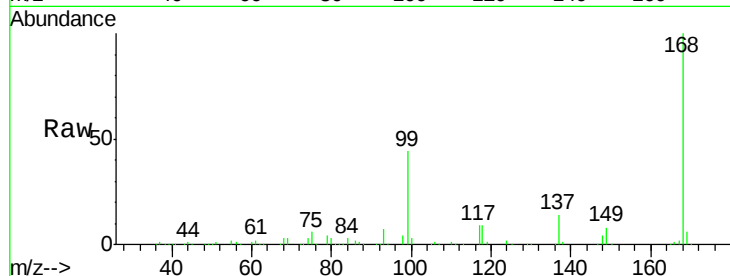
PB111123ZHE#20

Tot Ion:168 Resp: 272262

Ion Ratio Lower Upper

168 100

99 44.4 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

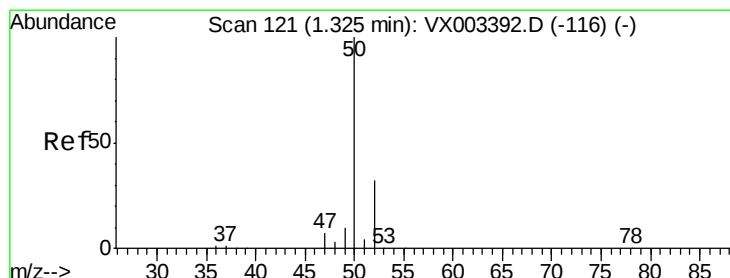
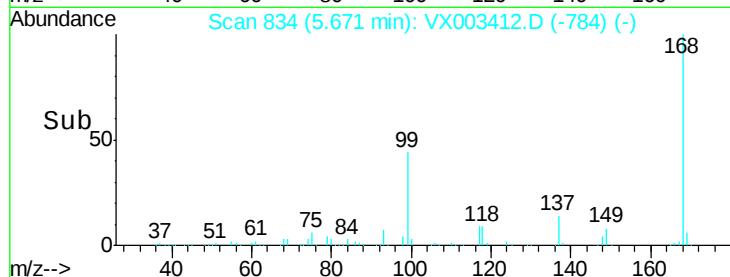
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.24 ug/l

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX003412.D

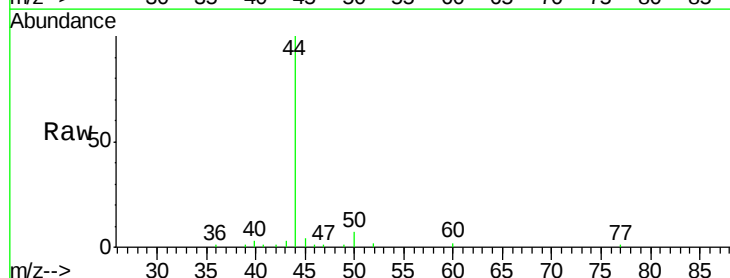
Acq: 17 Jul 2018 01:29

Tgt Ion: 50 Resp: 810

Ion Ratio Lower Upper

50 100

52 31.1 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

500

400

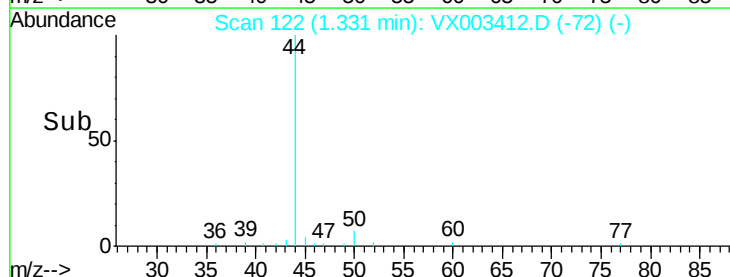
300

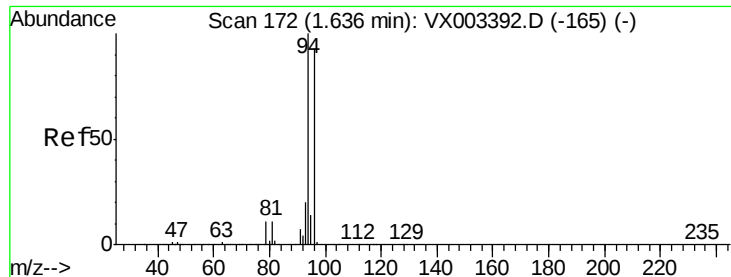
200

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: VX003412.D

Acq: 17 Jul 2018 01:29

Instrument :

MSVOA_X

ClientSampleId :

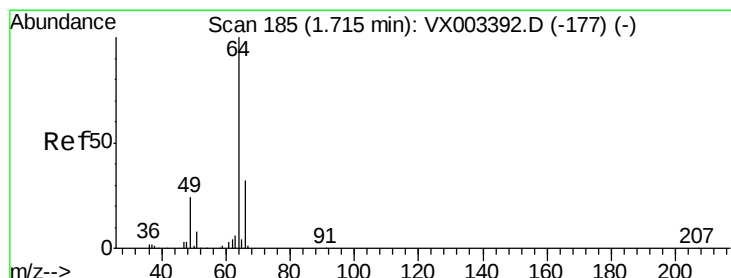
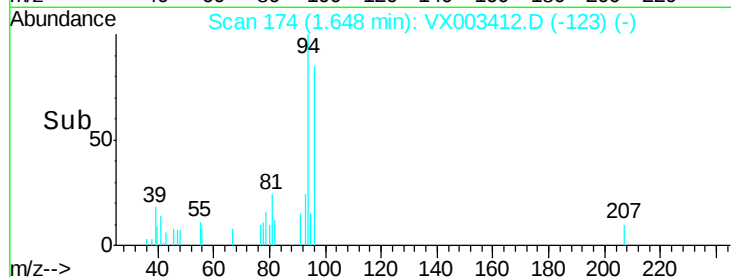
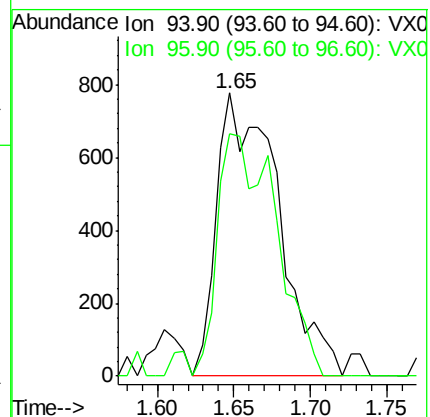
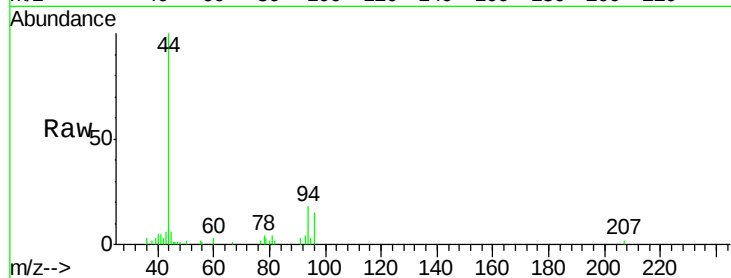
PB111123ZHE#20

Tot Ion: 94 Resp: 2163

Ion Ratio Lower Upper

94 100

96 85.5 74.9 112.3



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 187

Delta R.T. 0.01 min

Lab File: VX003412.D

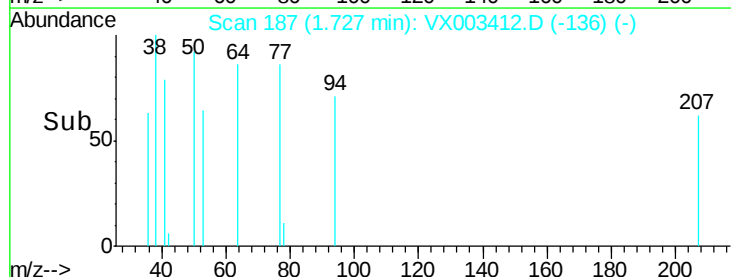
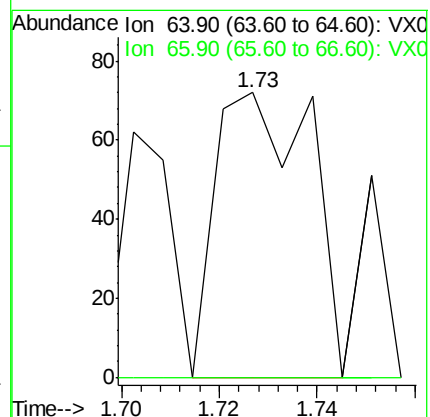
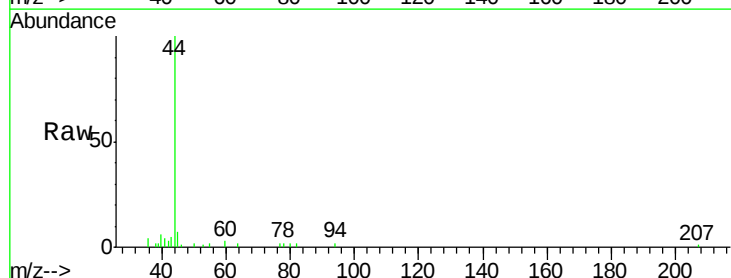
Acq: 17 Jul 2018 01:29

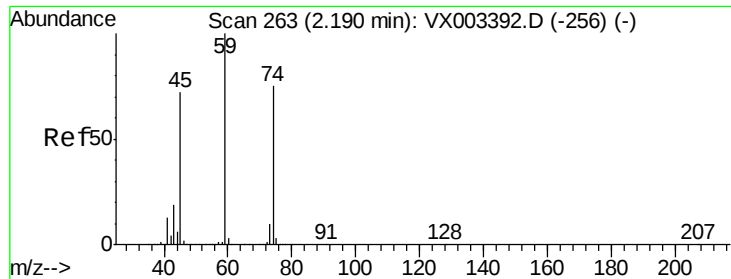
Tgt Ion: 64 Resp: 97

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#





#8

Diethyl Ether

Concen: 0.20 ug/l

RT: 2.19 min Scan# 263

Delta R.T. -0.00 min

Lab File: VX003412.D

Acq: 17 Jul 2018 01:29

Instrument :

MSVOA_X

ClientSampleId :

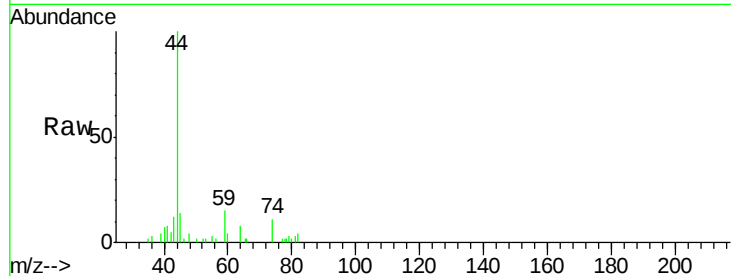
PB111123ZHE#20

Tot Ion: 74 Resp: 417

Ion Ratio Lower Upper

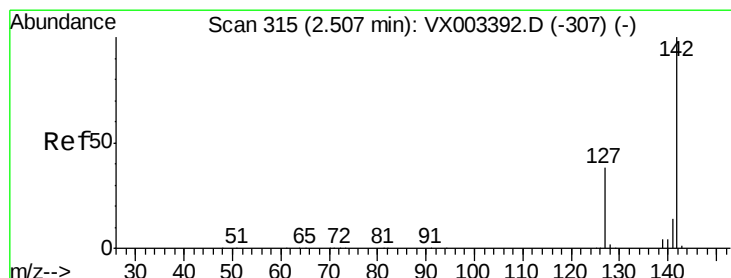
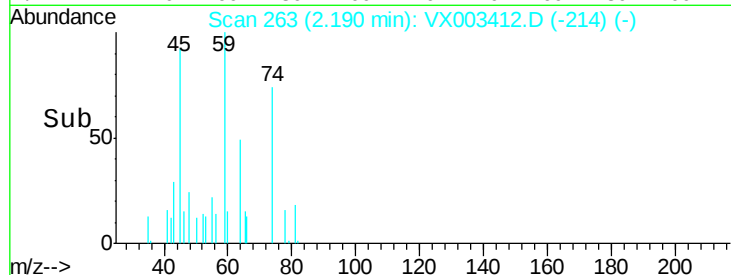
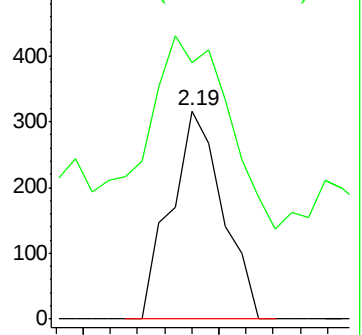
74 100

45 137.9 53.1 159.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#10

Methyl Iodide

Concen: 0.36 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.02 min

Lab File: VX003412.D

Acq: 17 Jul 2018 01:29

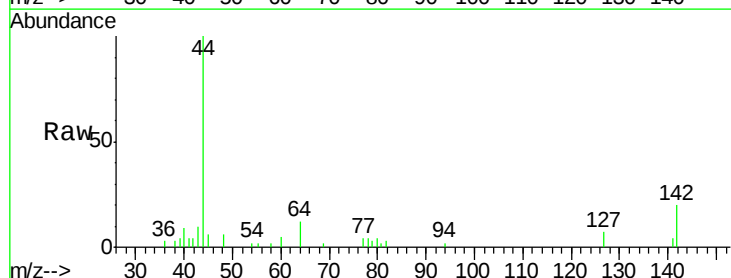
Tgt Ion: 142 Resp: 1179

Ion Ratio Lower Upper

142 100

127 40.4 36.6 55.0

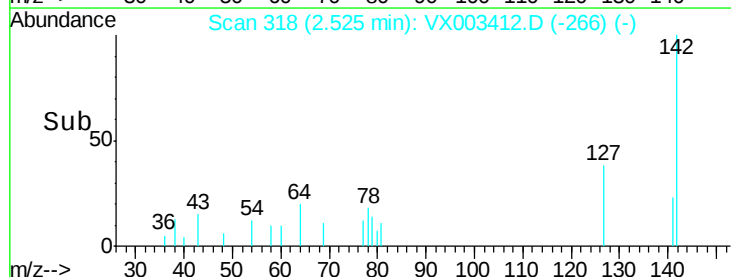
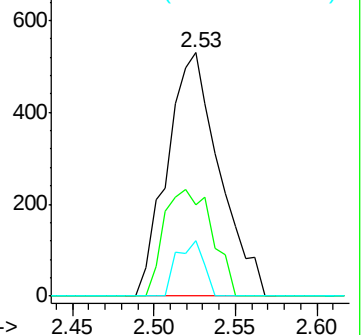
141 11.7 11.3 16.9

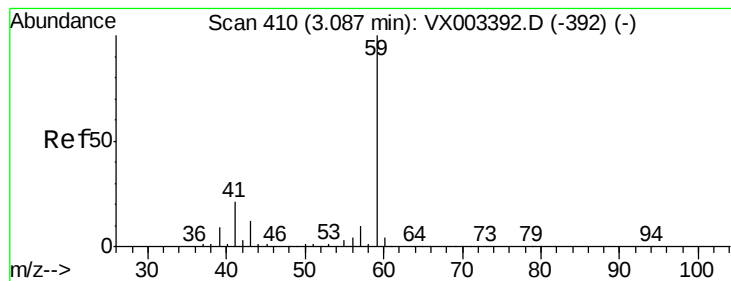


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



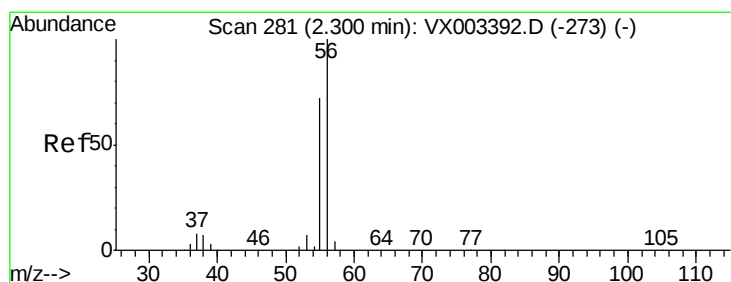
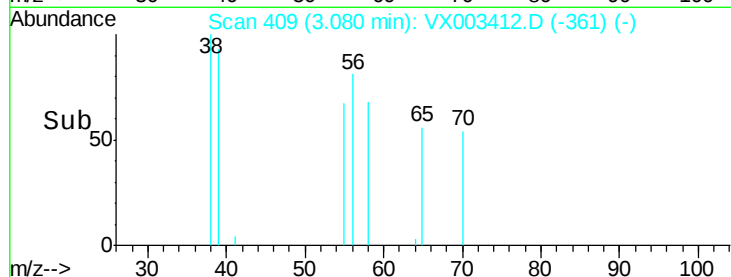
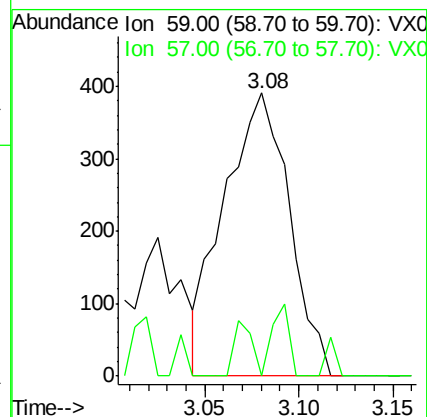
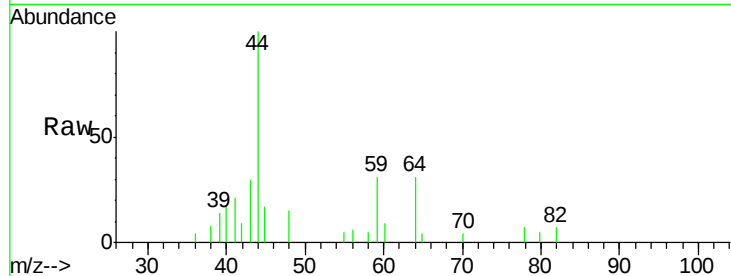


#11

Tert butvl alcohol
 Concen: 1.17 ug/l
 RT: 3.08 min Scan# 409
 Delta R.T. -0.01 min
 Lab File: VX003412.D
 Acq: 17 Jul 2018 01:29

Instrument :
 MSVOA_X
 ClientSampleId :
 PB111123ZHE#20

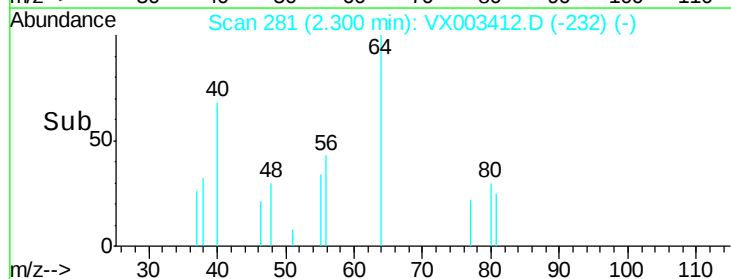
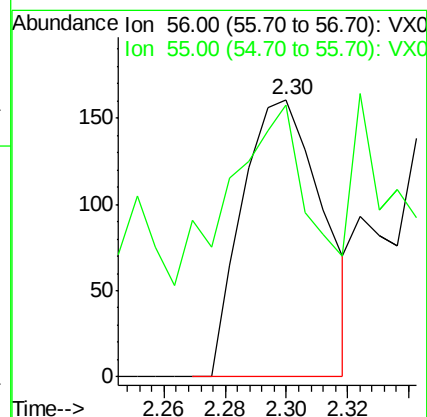
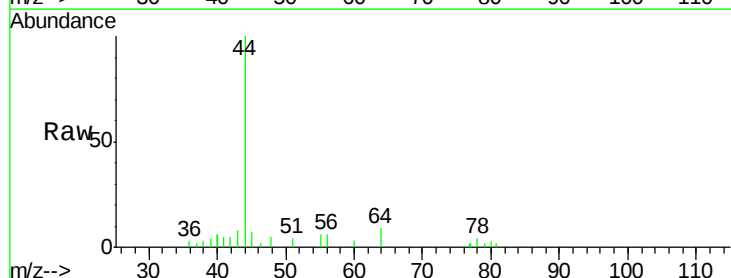
Tot Ion: 59 Resp: 940
 Ion Ratio Lower Upper
 59 100
 57 6.7 8.2 12.2#

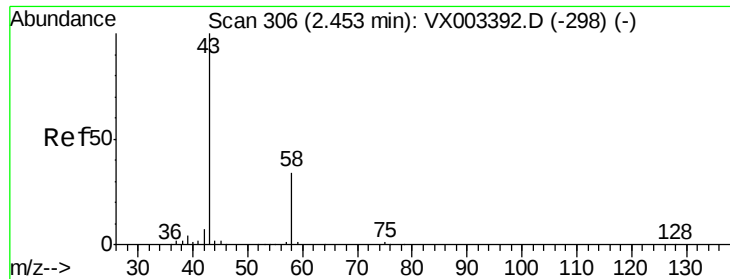


#13

Acrolein
 Concen: 0.76 ug/l
 RT: 2.30 min Scan# 281
 Delta R.T. -0.00 min
 Lab File: VX003412.D
 Acq: 17 Jul 2018 01:29

Tgt Ion: 56 Resp: 293
 Ion Ratio Lower Upper
 56 100
 55 59.7 57.0 85.4





#16

Acetone

Concen: 19.71 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX003412.D

Acq: 17 Jul 2018 01:29

Instrument :

MSVOA_X

ClientSampleId :

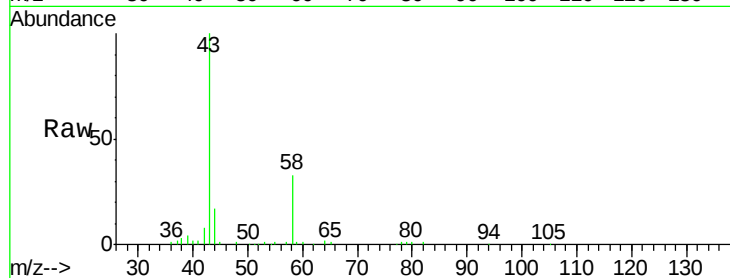
PB111123ZHE#20

Tot Ion: 43 Resp: 29237

Ion Ratio Lower Upper

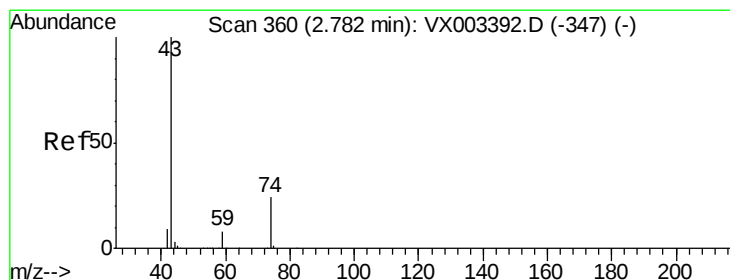
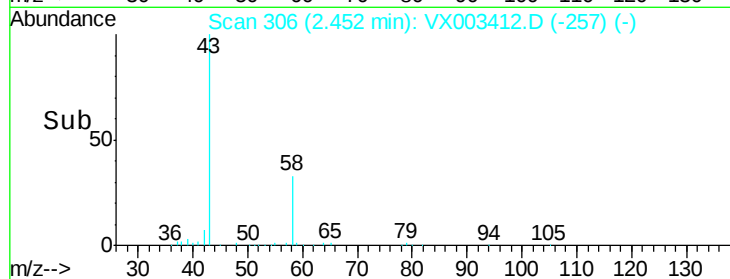
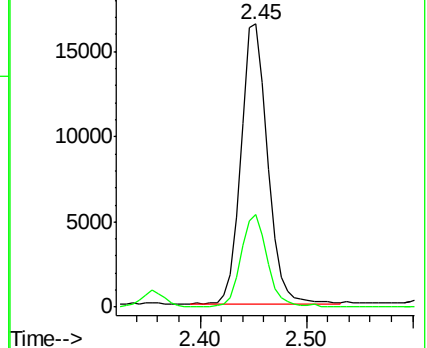
43 100

58 33.1 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 2.45 ug/l

RT: 2.78 min Scan# 360

Delta R.T. -0.00 min

Lab File: VX003412.D

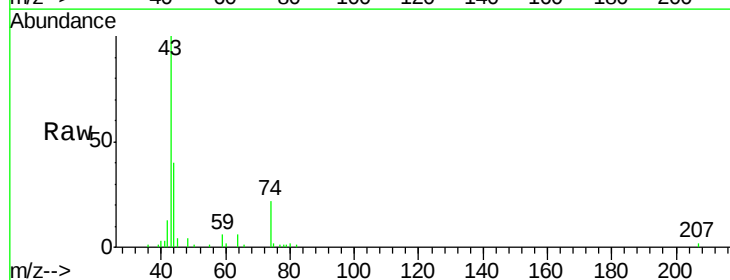
Acq: 17 Jul 2018 01:29

Tgt Ion: 43 Resp: 11852

Ion Ratio Lower Upper

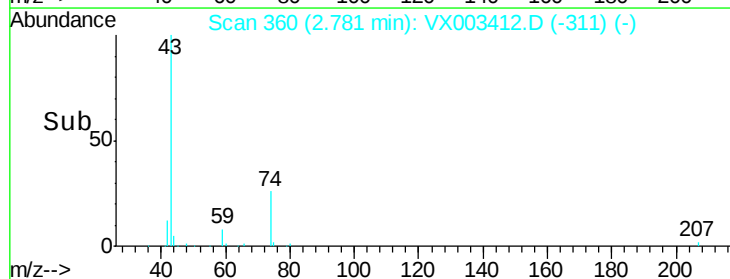
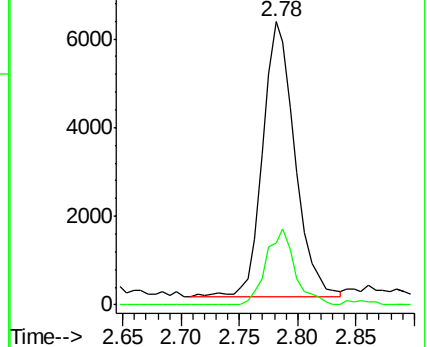
43 100

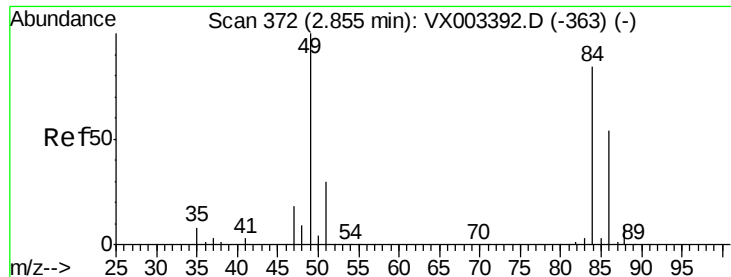
74 24.9 16.7 25.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

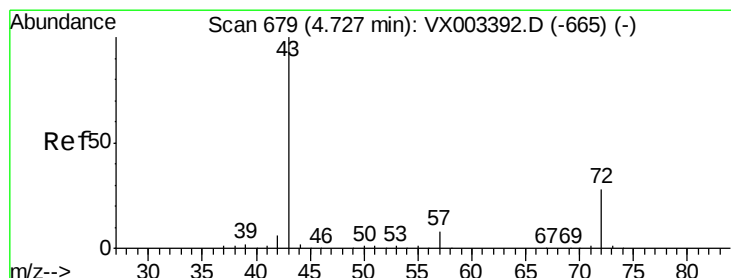
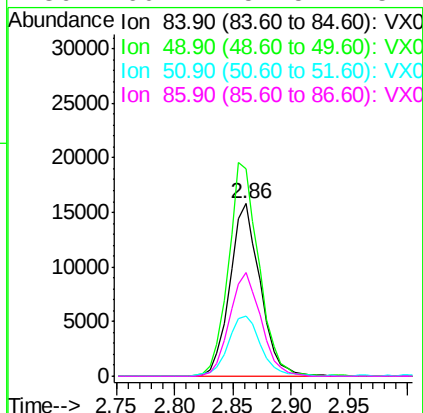
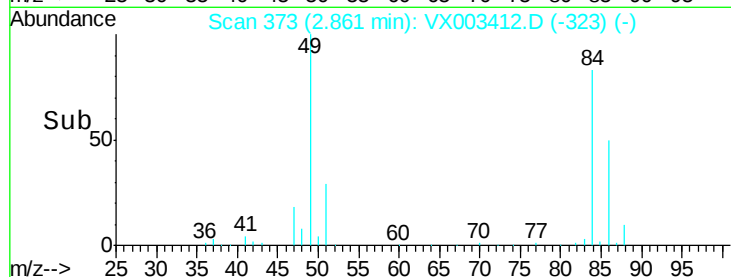
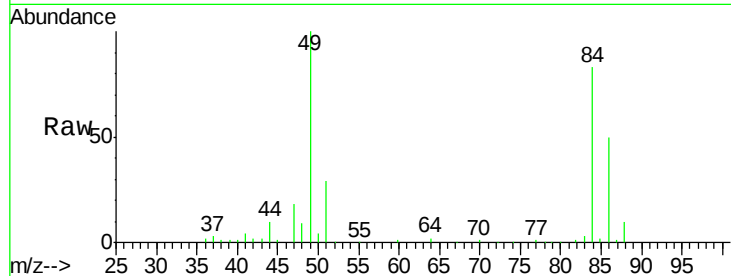




#20
Methvlene Chloride
Concen: 7.94 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX003412.D
Acq: 17 Jul 2018 01:29

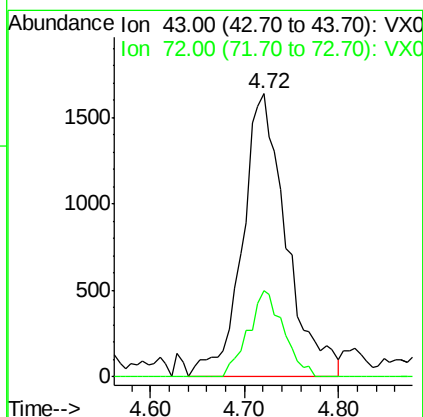
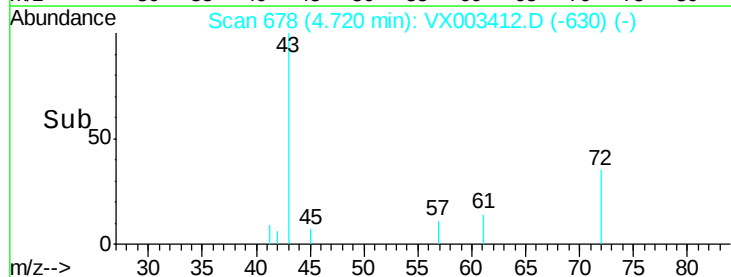
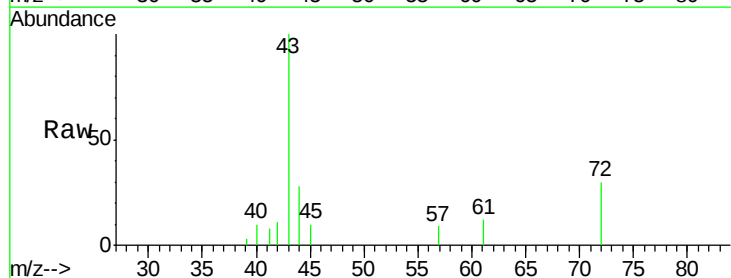
Instrument :
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ClientSampleId :
PB111123ZHE#20

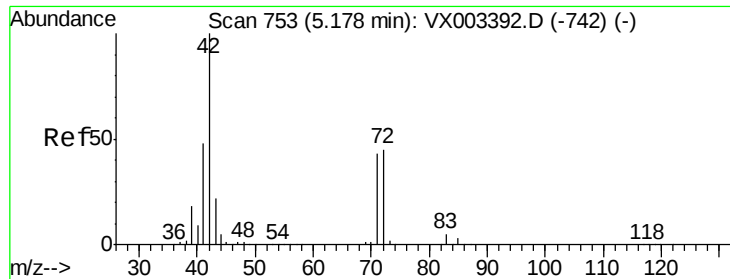
Tot Ion: 84 Resp: 28775
Ion Ratio Lower Upper
84 100
49 120.0 107.8 161.6
51 34.8 32.8 49.2
86 60.2 52.5 78.7



#25
2-Butanone
Concen: 2.30 ug/l
RT: 4.72 min Scan# 678
Delta R.T. -0.01 min
Lab File: VX003412.D
Acq: 17 Jul 2018 01:29

Tgt Ion: 43 Resp: 5347
Ion Ratio Lower Upper
43 100
72 30.5 18.5 27.7#

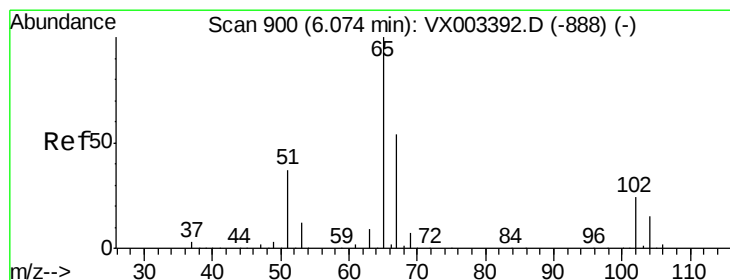
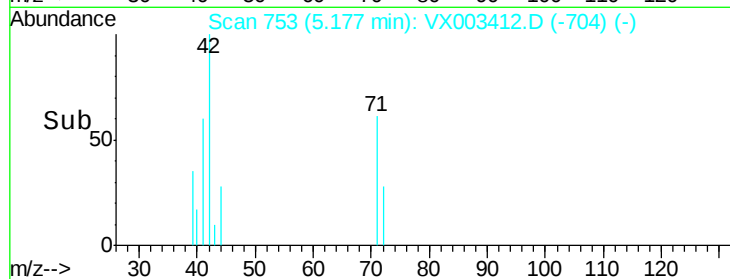
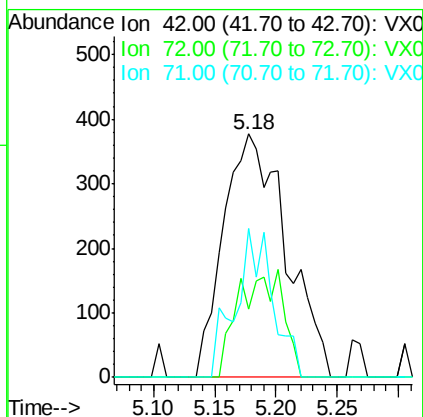
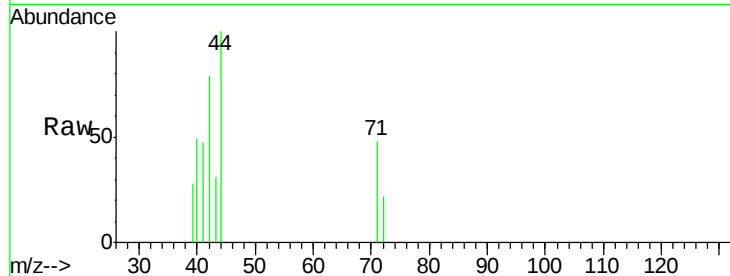




#29
Tetrahydrofuran
Concen: 0.92 ug/l
RT: 5.18 min Scan# 753
Delta R.T. -0.00 min
Lab File: VX003412.D
Acq: 17 Jul 2018 01:29

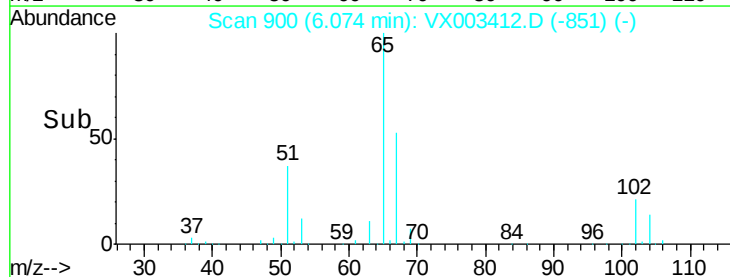
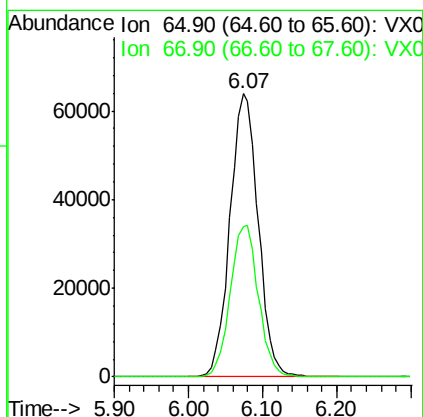
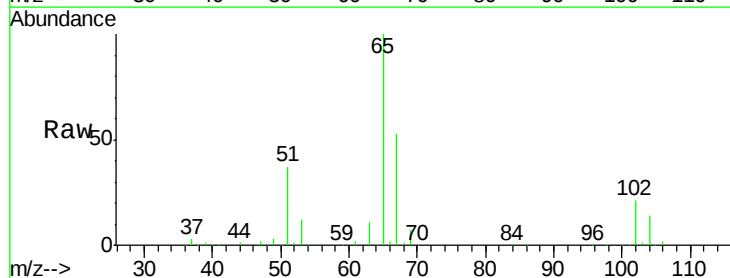
Instrument :
MSVOA_X
ClientSampleId :
PB111123ZHE#20

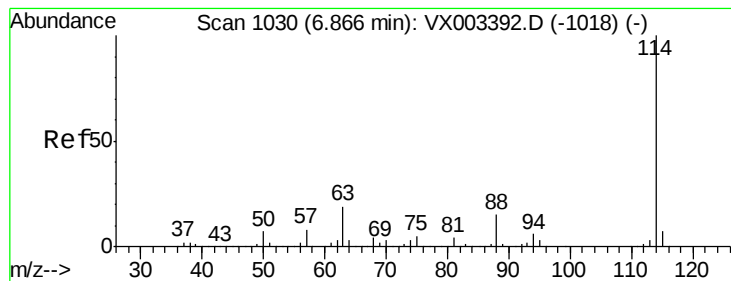
Tot Ion: 42 Resp: 1349
Ion Ratio Lower Upper
42 100
72 0.0 32.0 48.0#
71 36.4 30.1 45.1



#33
1,2-Dichloroethane-d4
Concen: 47.45 ug/l
RT: 6.07 min Scan# 900
Delta R.T. -0.00 min
Lab File: VX003412.D
Acq: 17 Jul 2018 01:29

Tgt Ion: 65 Resp: 169180
Ion Ratio Lower Upper
65 100
67 53.7 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: VX003412.D

Acq: 17 Jul 2018 01:29

Instrument :

MSVOA_X

ClientSampleId :

PB111123ZHE#20

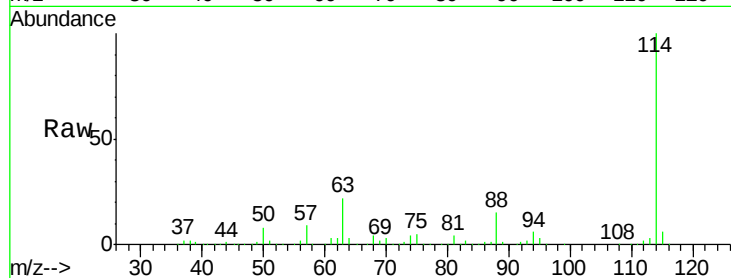
Tot Ion:114 Resp: 384977

Ion Ratio Lower Upper

114 100

63 22.1 0.0 41.4

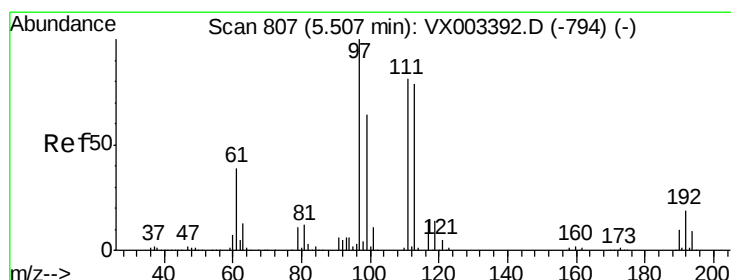
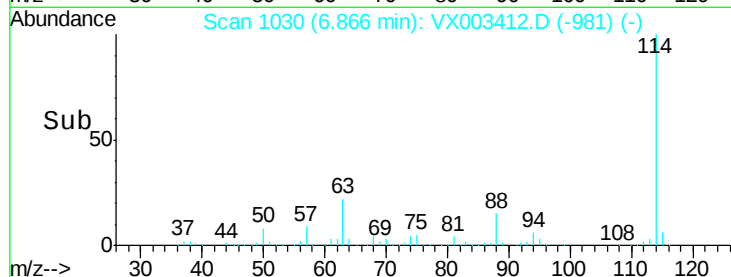
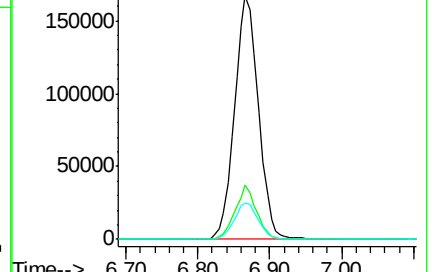
88 15.1 0.0 30.0



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: 48.17 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX003412.D

Acq: 17 Jul 2018 01:29

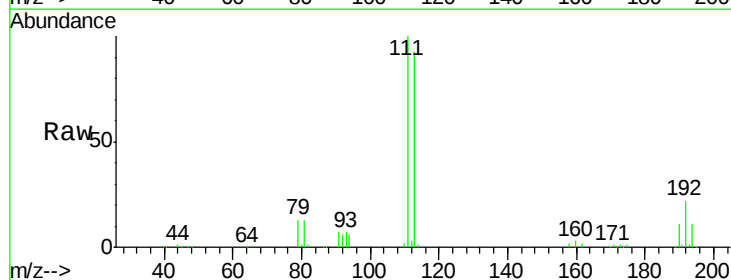
Tgt Ion:113 Resp: 150033

Ion Ratio Lower Upper

113 100

111 103.9 81.4 122.0

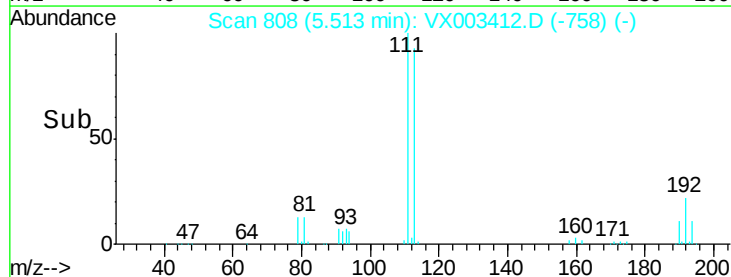
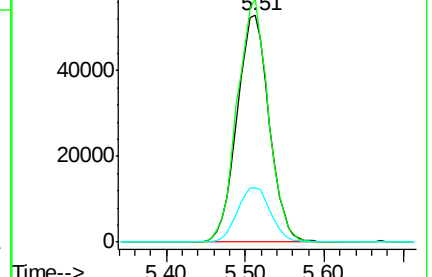
192 24.9 19.1 28.7

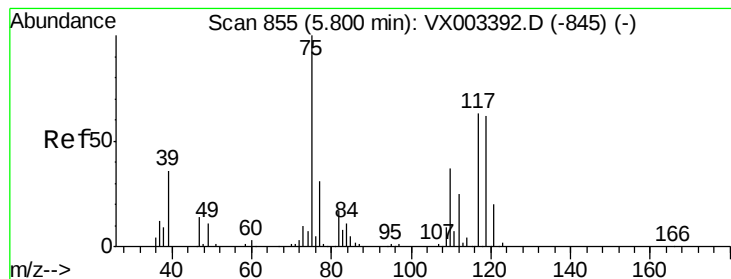


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.44 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX003412.D

Acq: 17 Jul 2018 01:29

Instrument :

MSVOA_X

ClientSampleId :

PB111123ZHE#20

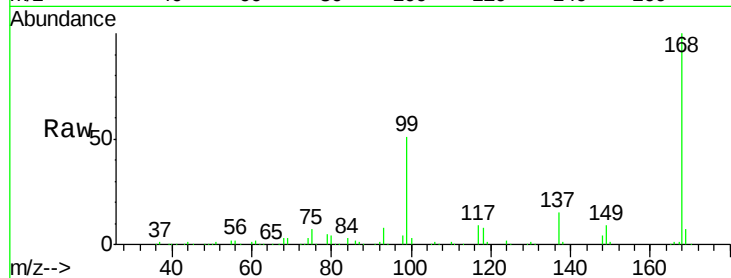
Tot Ion: 75 Resp: 17320

Ion Ratio Lower Upper

75 100

110 9.8 18.1 54.4#

77 0.1 24.3 36.5#

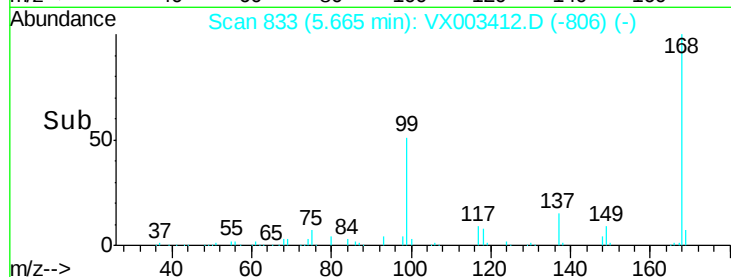


Abundance Ion 74.90 (74.60 to 75.60): VX003392.D (-845) (-)

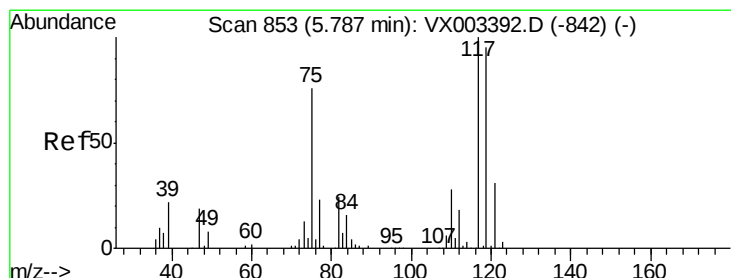
Ion 109.90 (109.60 to 110.60): VX003392.D (-845) (-)

Ion 76.90 (76.60 to 77.60): VX003392.D (-845) (-)

Time-->



Time-->



#38

Carbon Tetrachloride

Concen: 6.09 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX003412.D

Acq: 17 Jul 2018 01:29

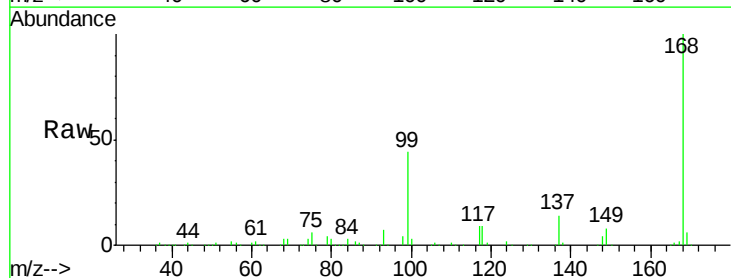
Tgt Ion: 117 Resp: 24165

Ion Ratio Lower Upper

117 100

119 6.0 77.4 116.0#

121 0.0 24.4 36.6#

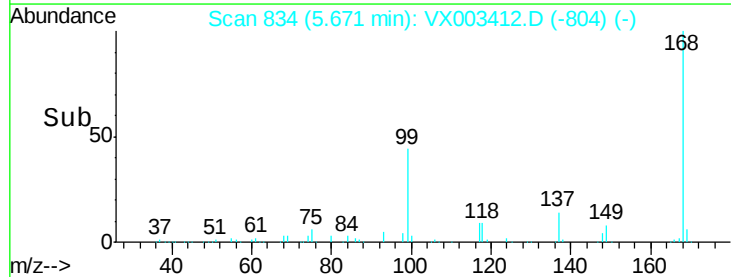


Abundance Ion 116.80 (116.50 to 117.50): VX003392.D (-842) (-)

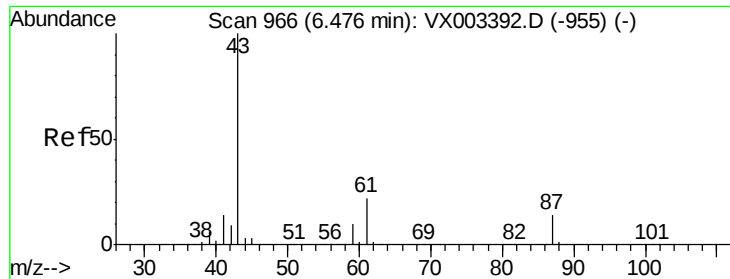
Ion 118.80 (118.50 to 119.50): VX003392.D (-842) (-)

Ion 120.80 (120.50 to 121.50): VX003392.D (-842) (-)

Time-->



Time-->

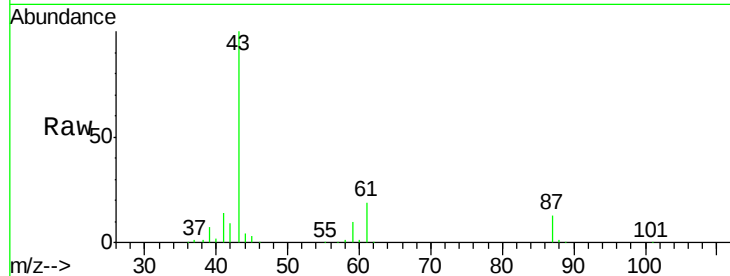


#43

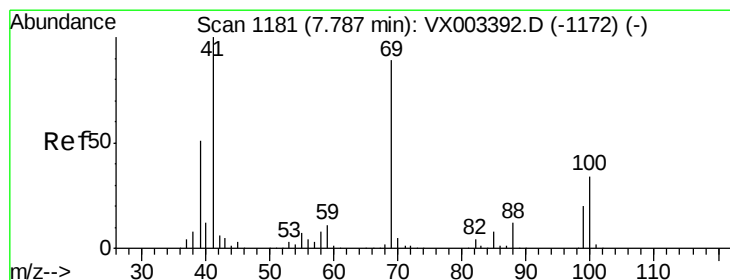
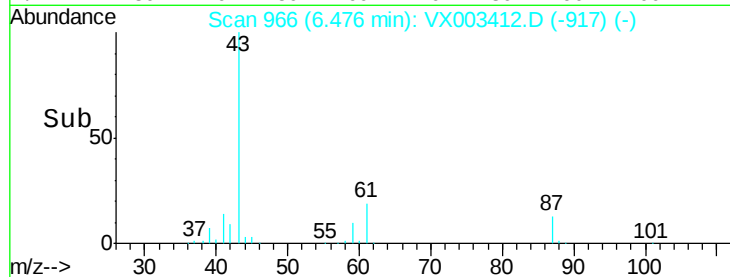
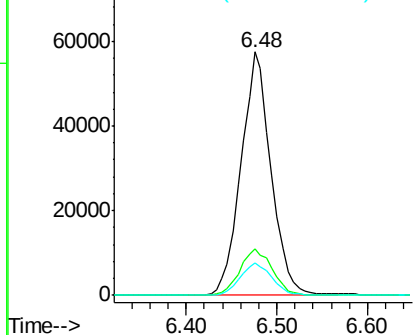
Isopropyl Acetate
 Concen: 19.84 ug/l
 RT: 6.48 min Scan# 966
 Delta R.T. -0.00 min
 Lab File: VX003412.D
 Acq: 17 Jul 2018 01:29

Instrument :
 MSVOA_X
 ClientSampleId :
 PB111123ZHE#20

Tot Ion	43	61	87
Resp	131554		
Ratio	100	20.6	14.0
Lower		14.4	9.5
Upper		21.6	14.3



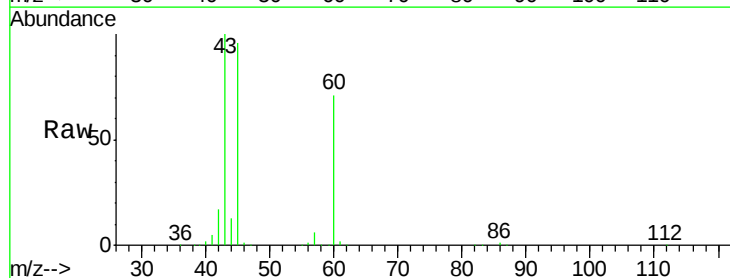
Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 61.00 (60.70 to 61.70): VX0
 Ion 87.00 (86.70 to 87.70): VX0



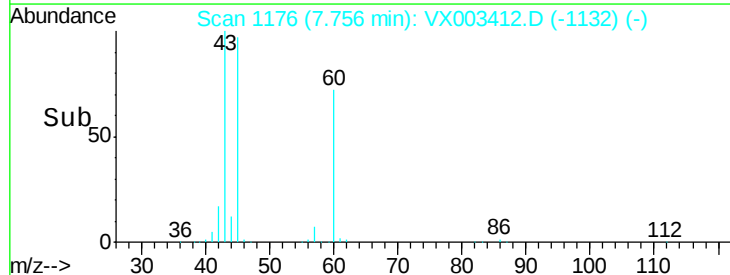
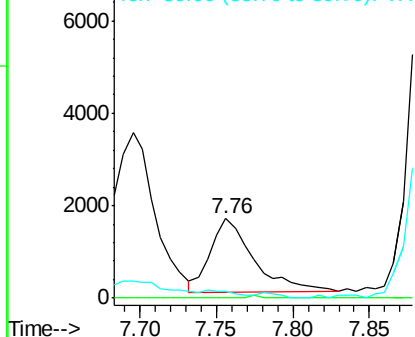
#48

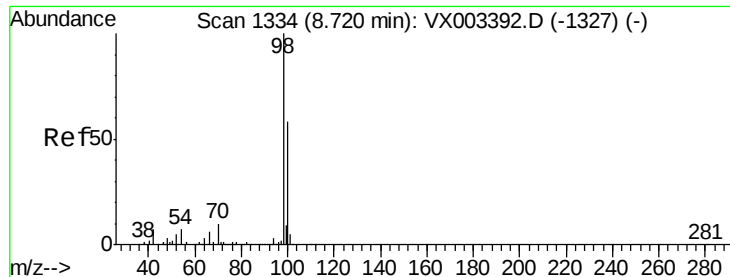
Methyl methacrylate
 Concen: 0.92 ug/l
 RT: 7.76 min Scan# 1176
 Delta R.T. -0.03 min
 Lab File: VX003412.D
 Acq: 17 Jul 2018 01:29

Tgt Ion	41	69	39
Resp	3116		
Ratio	100	0.6	0.0
Lower		59.1	48.9
Upper		88.7#	73.3#



Abundance Ion 41.00 (40.70 to 41.70): VX0
 Ion 69.00 (68.70 to 69.70): VX0
 Ion 39.00 (38.70 to 39.70): VX0

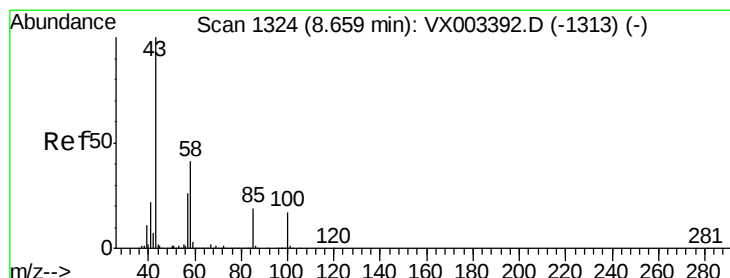
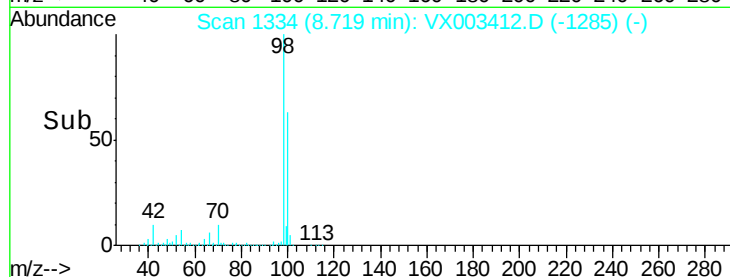
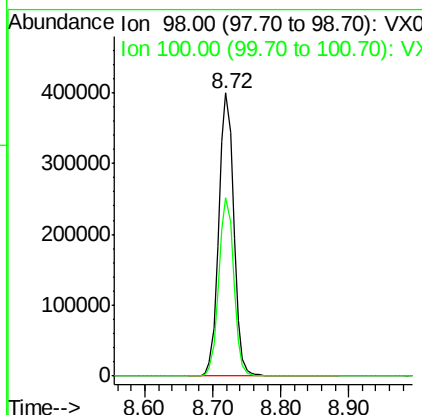
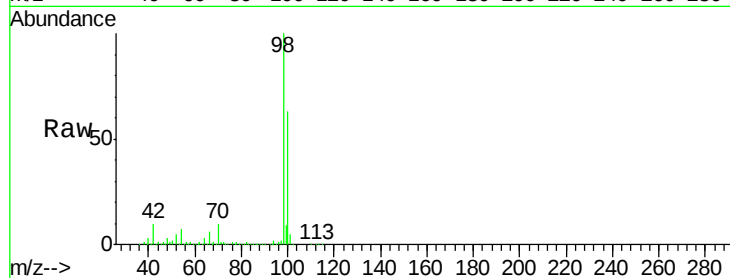




#50
Toluene-d8
Concen: 53.08 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX003412.D
Acq: 17 Jul 2018 01:29

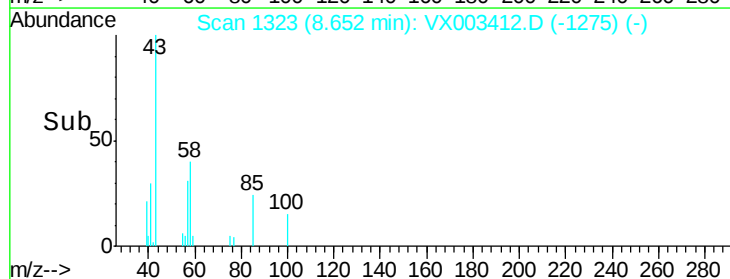
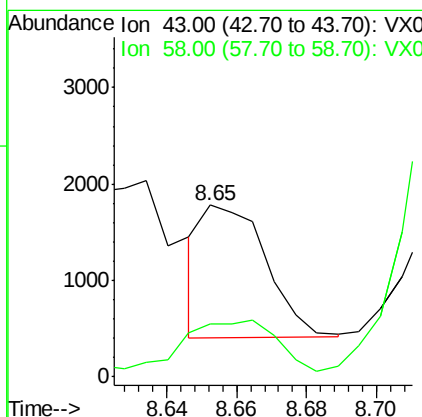
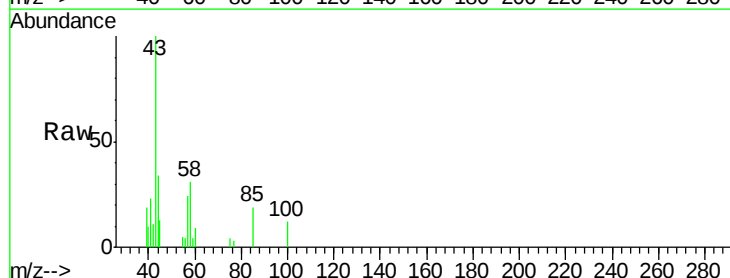
Instrument :
MSVOA_X
ClientSampleId :
PB111123ZHE#20

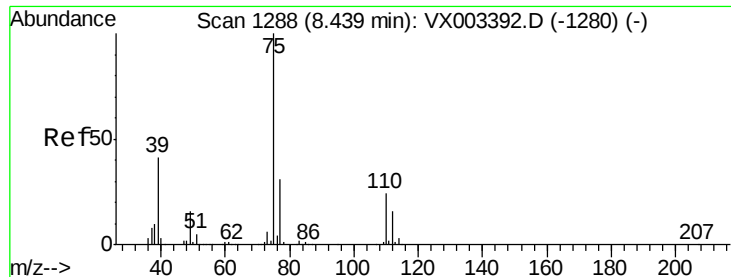
Tot Ion: 98 Resp: 610137
Ion Ratio Lower Upper
98 100
100 62.9 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 0.40 ug/l
RT: 8.65 min Scan# 1323
Delta R.T. -0.01 min
Lab File: VX003412.D
Acq: 17 Jul 2018 01:29

Tgt Ion: 43 Resp: 1730
Ion Ratio Lower Upper
43 100
58 75.9 28.6 42.8#

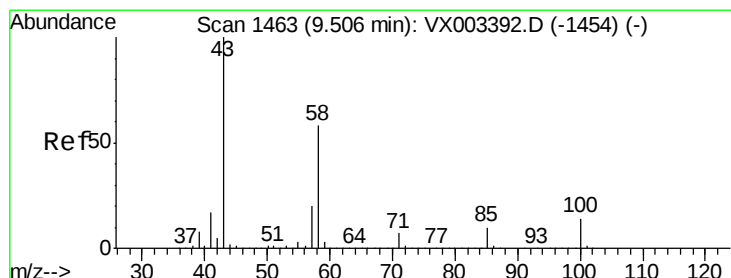
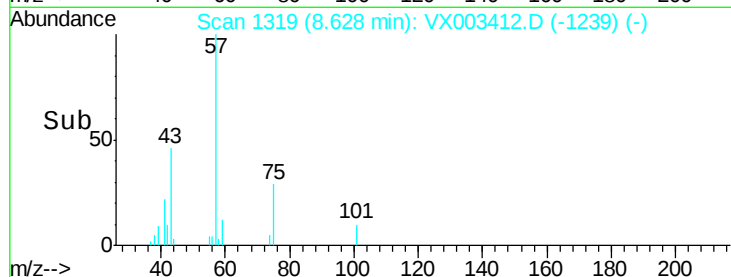
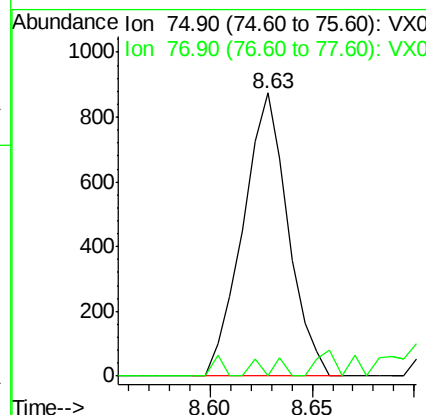
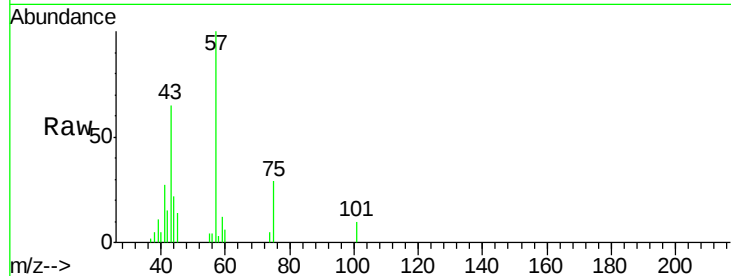




#53
t-1,3-Dichloropropene
Concen: 0.30 ug/l
RT: 8.63 min Scan# 1319
Delta R.T. 0.19 min
Lab File: VX003412.D
Acq: 17 Jul 2018 01:29

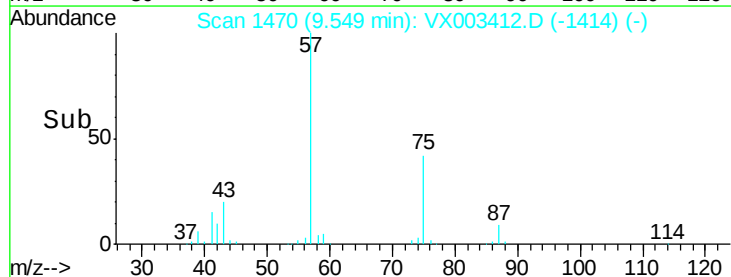
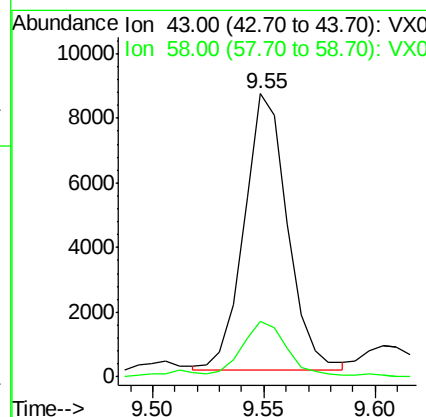
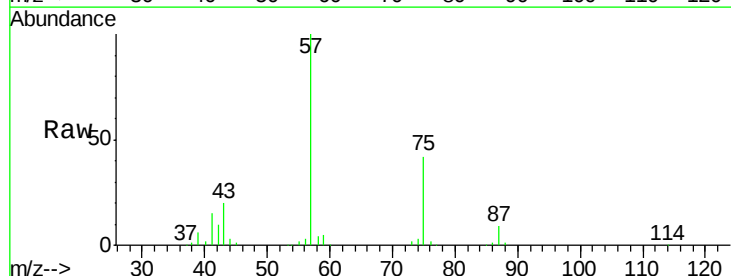
Instrument :
MSVOA_X
ClientSampleId :
PB111123ZHE#20

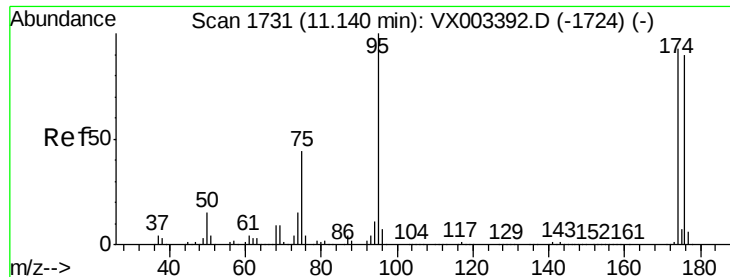
Tot Ion: 75 Resp: 1340
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.2#



#59
2-Hexanone
Concen: 3.45 ug/l
RT: 9.55 min Scan# 1470
Delta R.T. 0.04 min
Lab File: VX003412.D
Acq: 17 Jul 2018 01:29

Tgt Ion: 43 Resp: 11567
Ion Ratio Lower Upper
43 100
58 19.7 24.6 73.6#

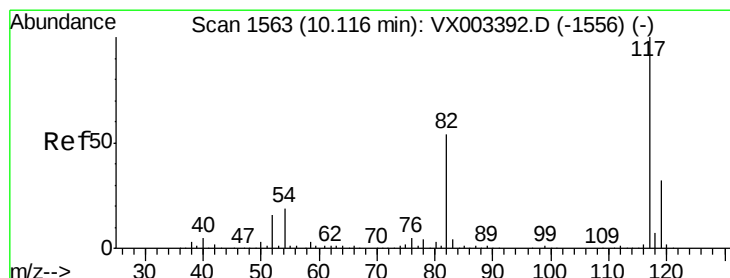
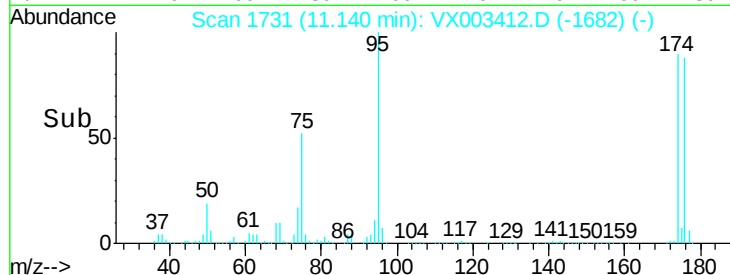
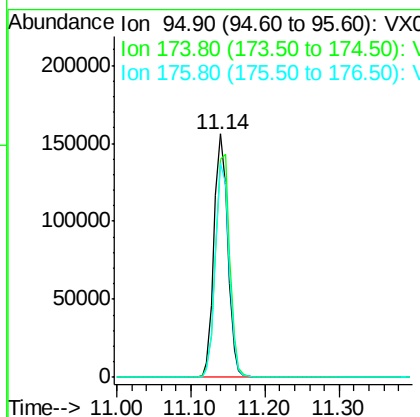
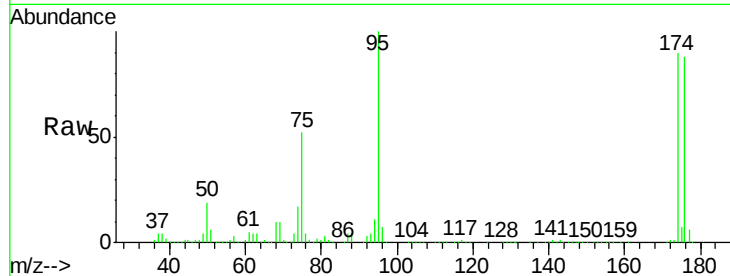




#62
4-Bromofluorobenzene
Concen: 48.07 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX003412.D
Acq: 17 Jul 2018 01:29

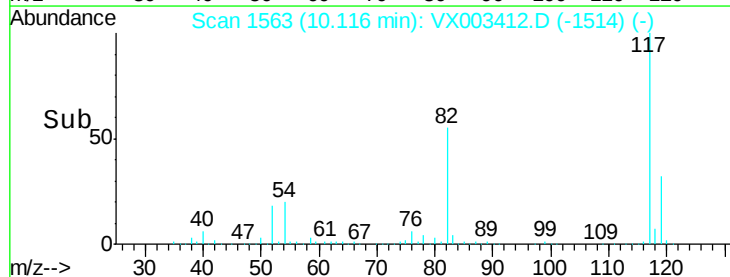
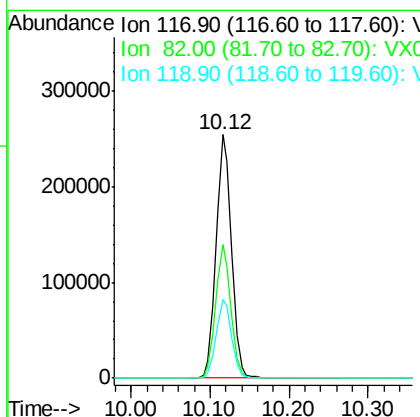
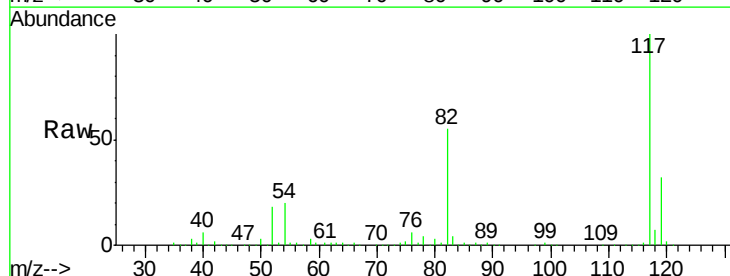
Instrument :
MSVOA_X
ClientSampleId :
PB111123ZHE#20

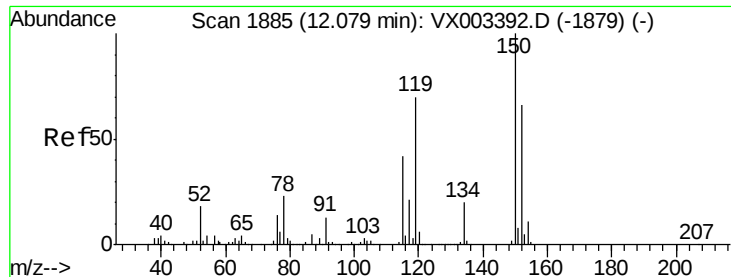
Tot Ion: 95 Resp: 197278
Ion Ratio Lower Upper
95 100
174 94.6 0.0 187.4
176 88.1 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX003412.D
Acq: 17 Jul 2018 01:29

Tgt Ion: 117 Resp: 346878
Ion Ratio Lower Upper
117 100
82 54.7 45.0 67.4
119 32.3 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. 0.01 min

Lab File: VX003412.D

Acq: 17 Jul 2018 01:29

Instrument :

MSVOA_X

ClientSampleId :

PB111123ZHE#20

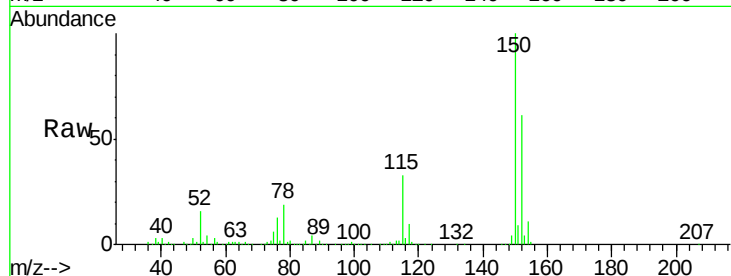
Tot Ion:152 Resp: 211043

Ion Ratio Lower Upper

152 100

115 54.8 40.1 120.2

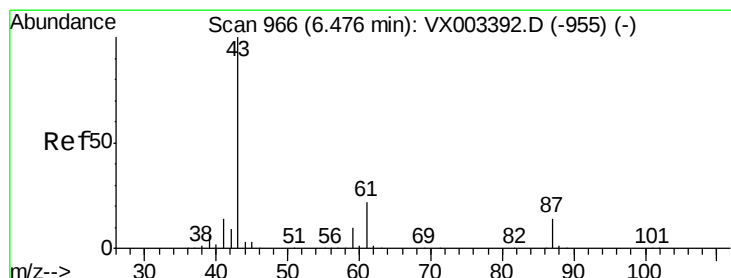
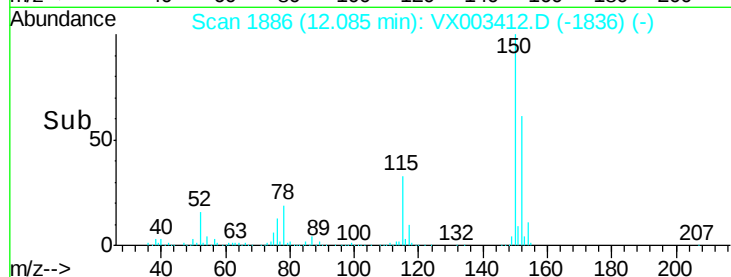
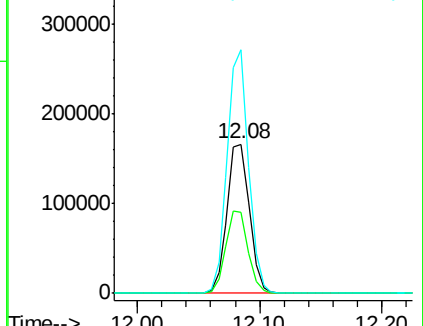
150 155.0 0.0 347.2



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-amil acetate

Concen: 20.24 ug/l

RT: 6.48 min Scan# 966

Delta R.T. -0.00 min

Lab File: VX003412.D

Acq: 17 Jul 2018 01:29

Tgt Ion: 43 Resp: 131554

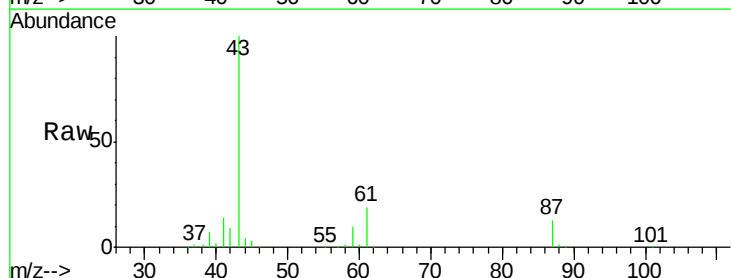
Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 0.1 0.0 0.0#

61 20.6 14.4 21.6

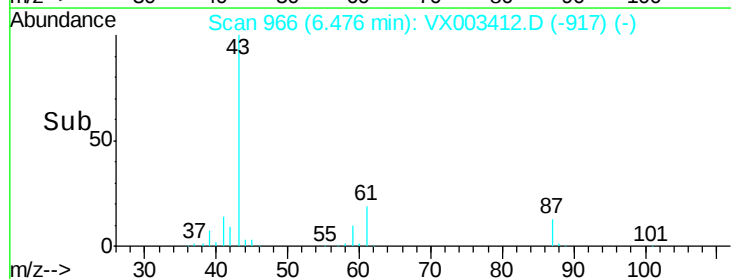
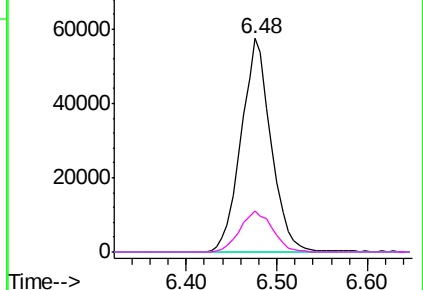


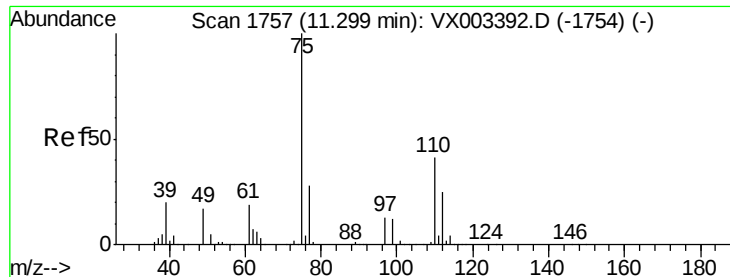
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 24.63 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003412.D

Acq: 17 Jul 2018 01:29

Instrument :

MSVOA_X

ClientSampleId :

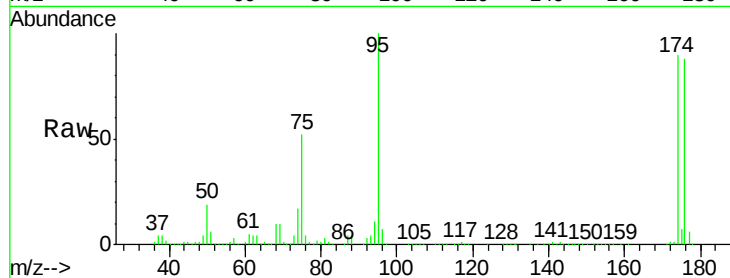
PB111123ZHE#20

Tot Ion: 75 Resp: 94094

Ion Ratio Lower Upper

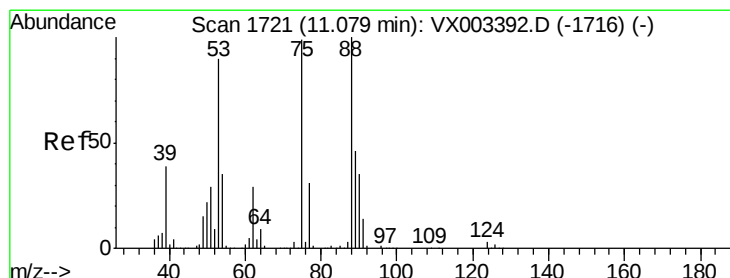
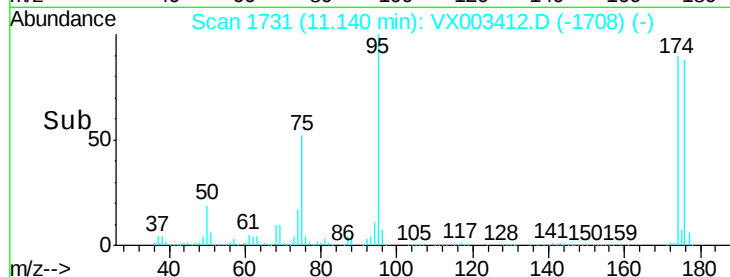
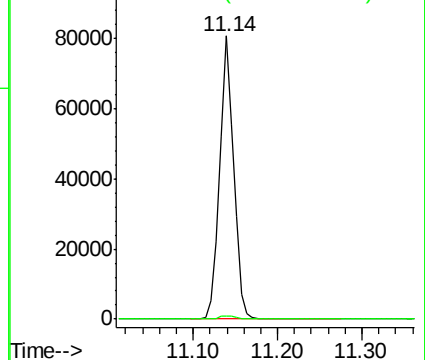
75 100

77 1.3 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: 80.01 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003412.D

Acq: 17 Jul 2018 01:29

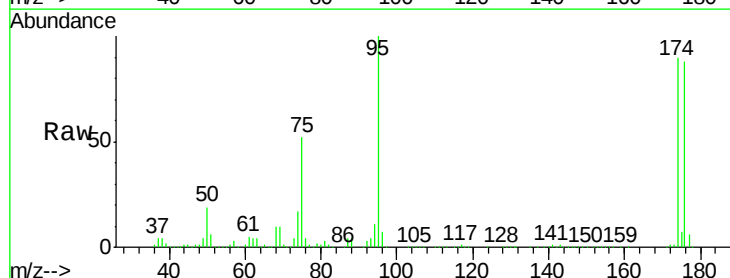
Tgt Ion: 75 Resp: 94094

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

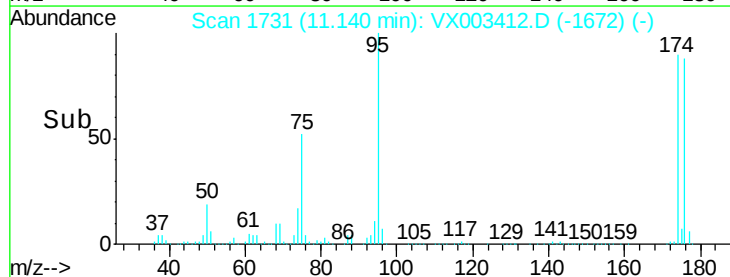
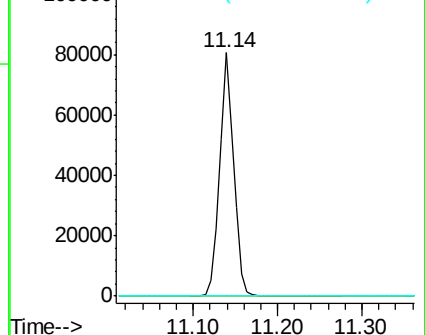
89 0.0 38.2 57.2#

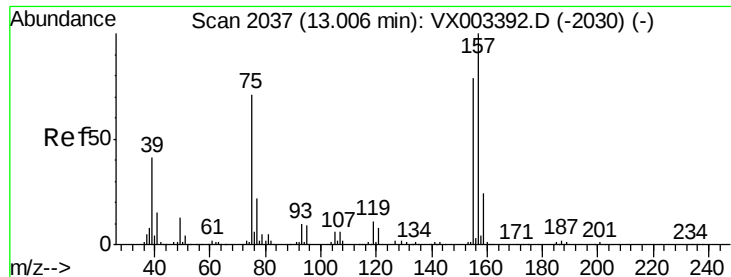


Abundance Ion 74.90 (74.60 to 75.60): VX0

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: 0.32 ug/l

RT: 12.97 min Scan# 2032

Delta R.T. -0.03 min

Lab File: VX003412.D

Acq: 17 Jul 2018 01:29

Instrument :

MSVOA_X

ClientSampleId :

PB111123ZHE#20

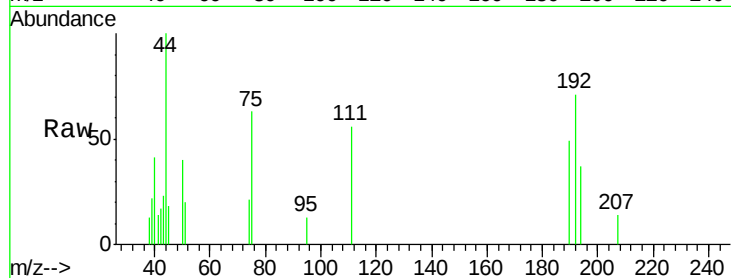
Tot Ion: 75 Resp: 296

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

