

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071618\
 Data File : VX003409.D
 Acq On : 17 Jul 2018 00:08
 Operator : JC/MD
 Sample : PB111123ZHE#17
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB111123ZHE#17

Quant Time: Jul 17 02:01:13 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	279237	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	414458	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	391876	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	234082	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	181774	49.71	ug/l	0.00
Spiked Amount			Recovery	=	99.42%	
35) Dibromofluoromethane	5.51	113	159420	47.54	ug/l	0.00
Spiked Amount			Recovery	=	95.08%	
50) Toluene-d8	8.72	98	671605	54.27	ug/l	0.00
Spiked Amount			Recovery	=	108.54%	
62) 4-Bromofluorobenzene	11.14	95	222807	50.43	ug/l	0.00
Spiked Amount			Recovery	=	100.86%	

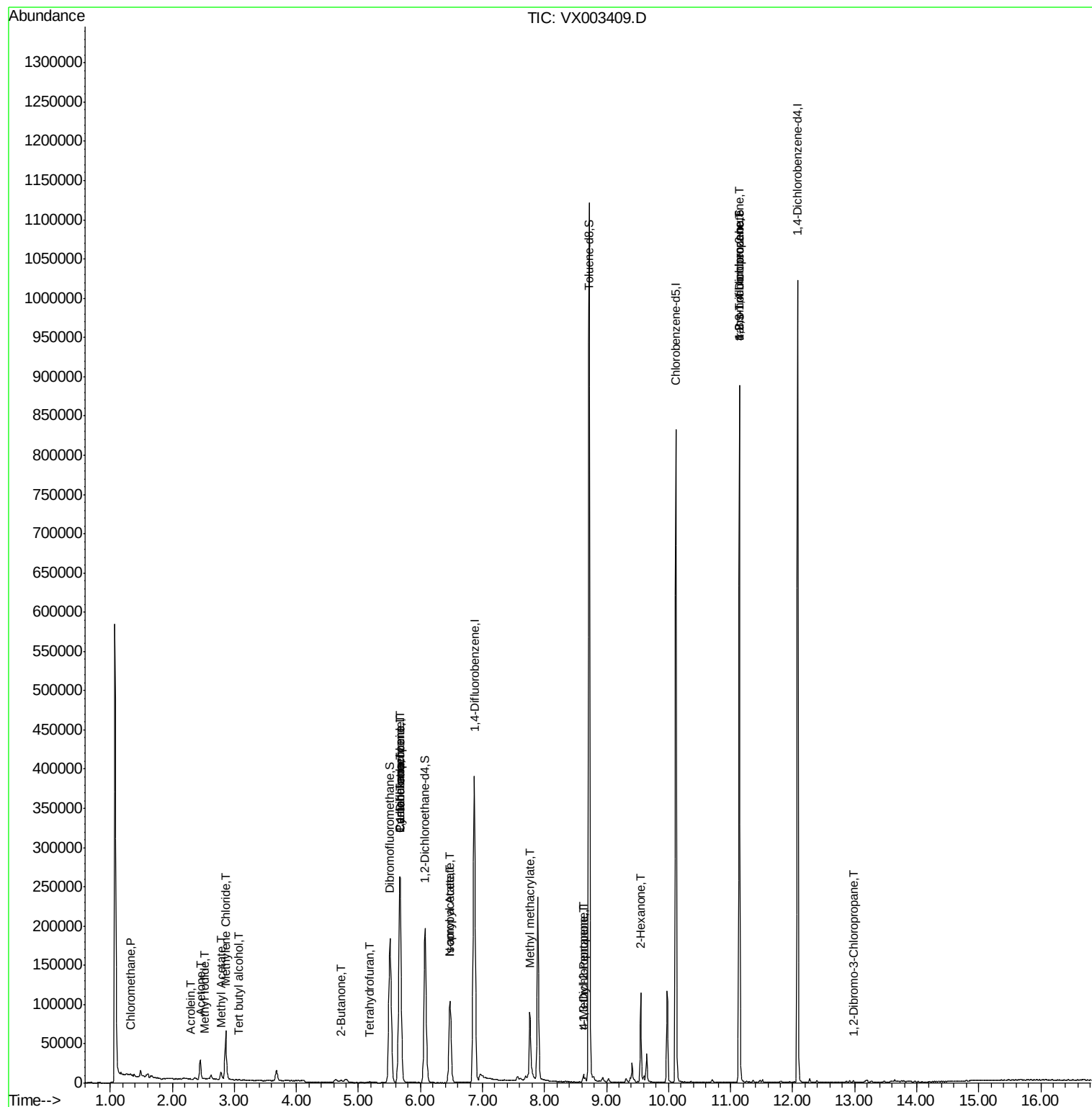
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	930	0.27	ug/l	93
5) Bromomethane	1.65	94	1156	Below Cal		95
6) Chloroethane	1.70	64	41	Below Cal	#	43
10) Methyl Iodide	2.52	142	1568	0.47	ug/l	# 72
11) Tert butyl alcohol	3.07	59	852	1.04	ug/l	# 87
13) Acrolein	2.30	56	316	0.80	ug/l	# 30
16) Acetone	2.45	43	28112	18.48	ug/l	# 82
18) Methyl Acetate	2.78	43	10969	2.21	ug/l	91
20) Methylene Chloride	2.86	84	29508	7.94	ug/l	86
25) 2-Butanone	4.71	43	4922	2.07	ug/l	# 81
29) Tetrahydrofuran	5.17	42	1329	0.88	ug/l	96
31) Cyclohexane	5.66	56	4688	1.03	ug/l	# 1
36) 1,1-Dichloropropene	5.67	75	17436	4.15	ug/l	# 50
38) Carbon Tetrachloride	5.67	117	23627	5.53	ug/l	# 18
43) Isopropyl Acetate	6.48	43	132859	18.61	ug/l	# 92
48) Methyl methacrylate	7.76	41	2585	0.71	ug/l	# 16
51) 4-Methyl-2-Pentanone	8.63	43	3109	0.66	ug/l	# 39
53) t-1,3-Dichloropropene	8.63	75	1632	0.34	ug/l	# 43
59) 2-Hexanone	9.55	43	12683	3.51	ug/l	# 61
74) N-amyl acetate	6.48	43	132859	18.43	ug/l	# 93
76) 1,2,3-Trichloropropane	11.14	75	100568	23.73	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	100568	77.10	ug/l	# 7
92) 1,2-Dibromo-3-Chloropropan	12.99	75	324	0.31	ug/l	# 1

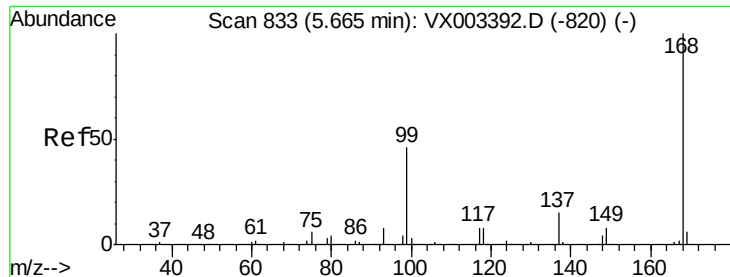
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX003409.D

Acq: 17 Jul 2018 00:08

Instrument :

MSVOA_X

ClientSampleId :

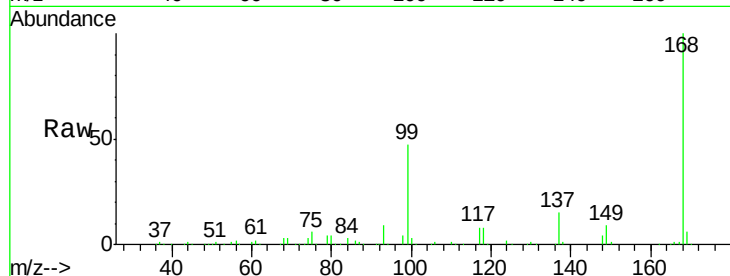
PB111123ZHE#17

Tot Ion:168 Resp: 279237

Ion Ratio Lower Upper

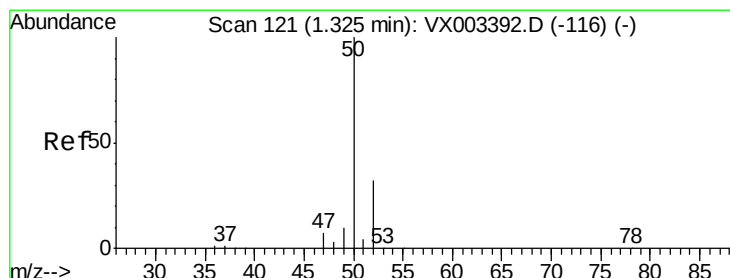
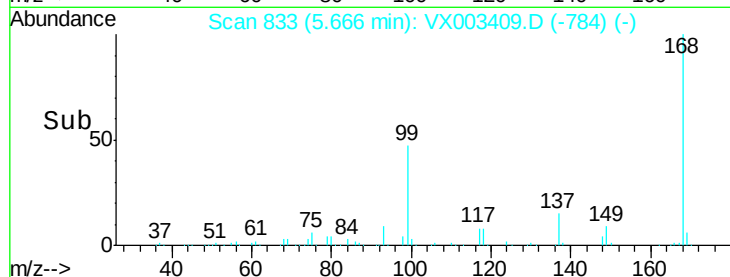
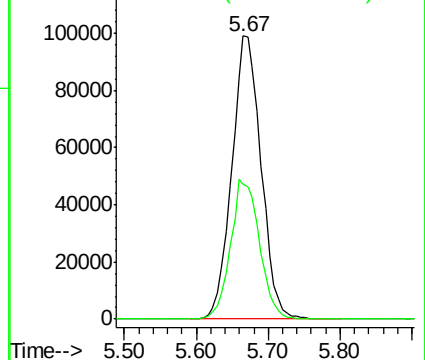
168 100

99 47.4 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: 0.27 ug/l

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX003409.D

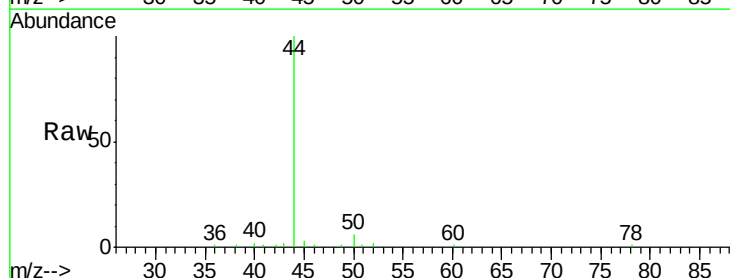
Acq: 17 Jul 2018 00:08

Tgt Ion: 50 Resp: 930

Ion Ratio Lower Upper

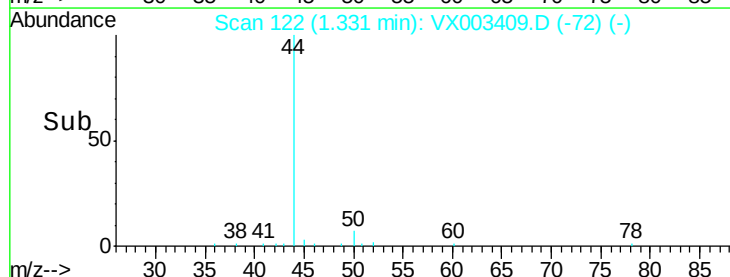
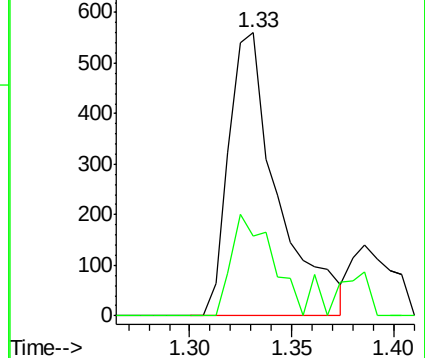
50 100

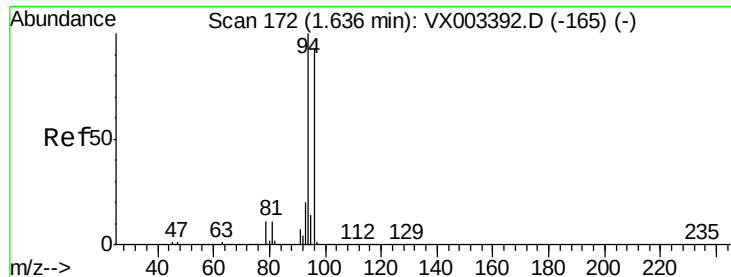
52 28.4 25.7 38.5



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: VX003409.D

Acq: 17 Jul 2018 00:08

Instrument :

MSVOA_X

ClientSampleId :

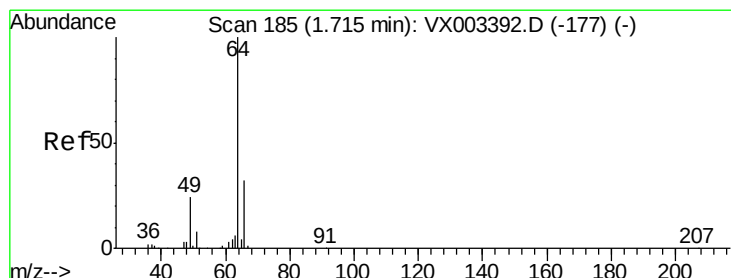
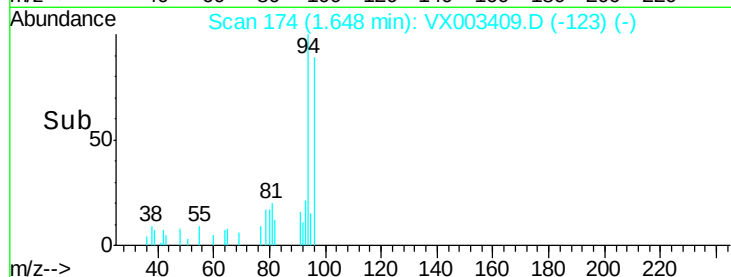
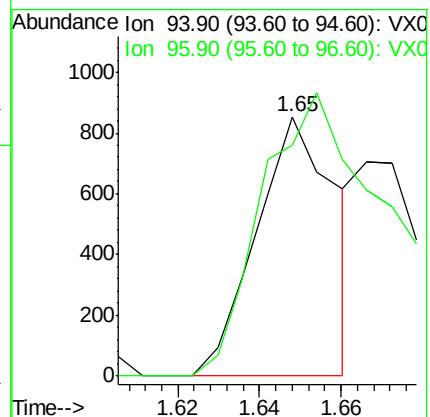
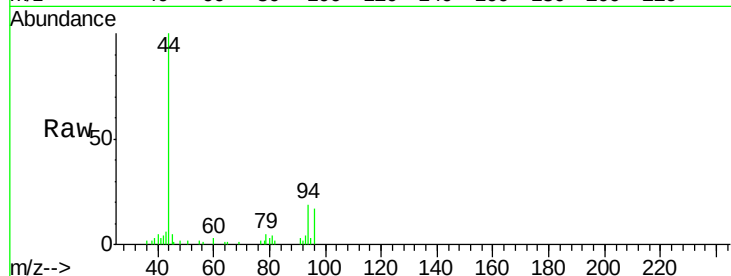
PB111123ZHE#17

Tot Ion: 94 Resp: 1156

Ion Ratio Lower Upper

94 100

96 89.2 74.9 112.3



#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 182

Delta R.T. -0.02 min

Lab File: VX003409.D

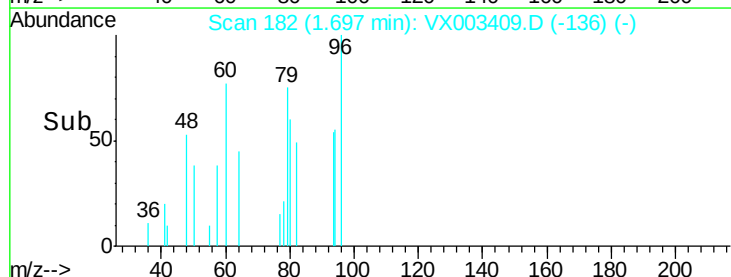
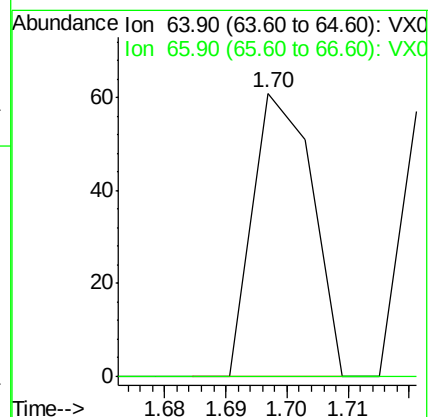
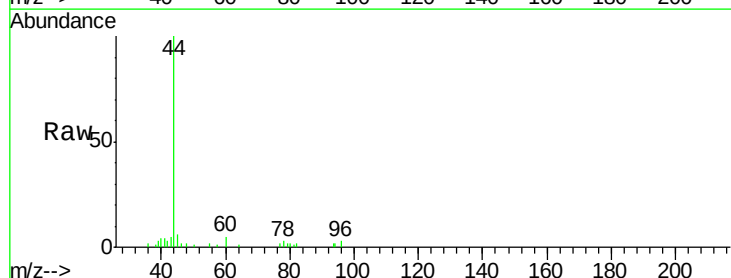
Acq: 17 Jul 2018 00:08

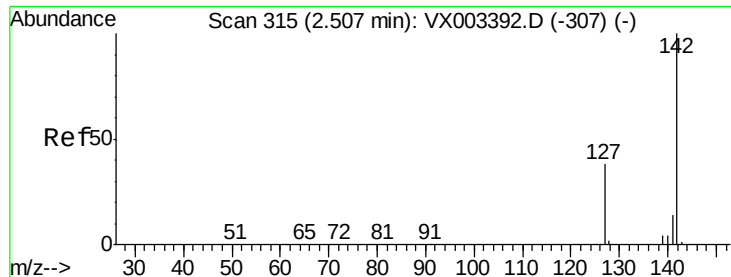
Tgt Ion: 64 Resp: 41

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#

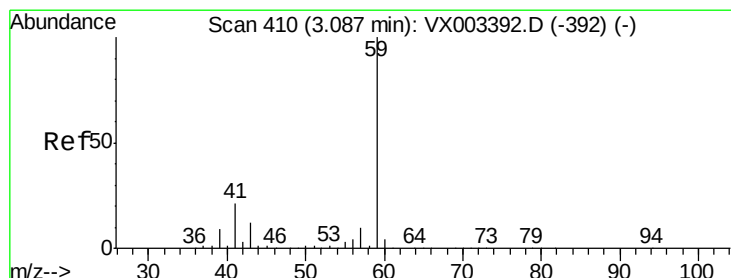
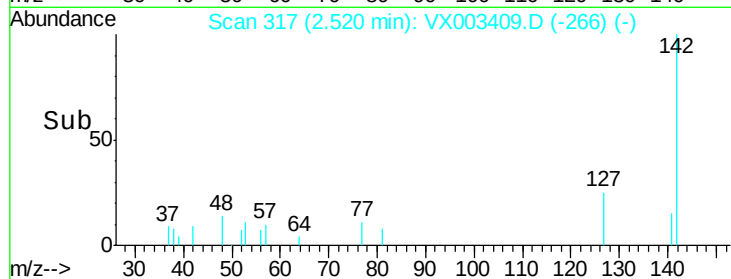
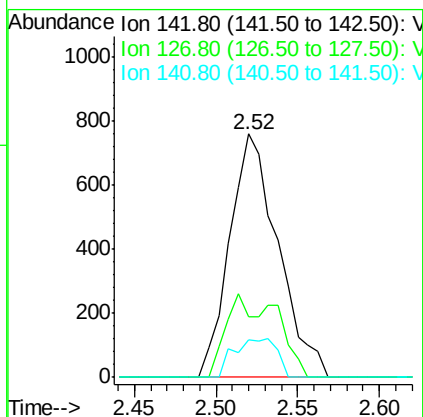
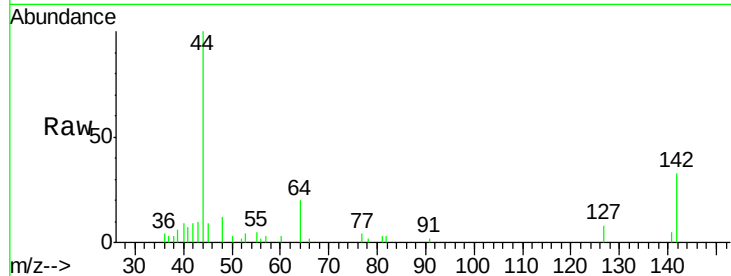




#10
Methvl Iodide
Concen: 0.47 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX003409.D
Acq: 17 Jul 2018 00:08

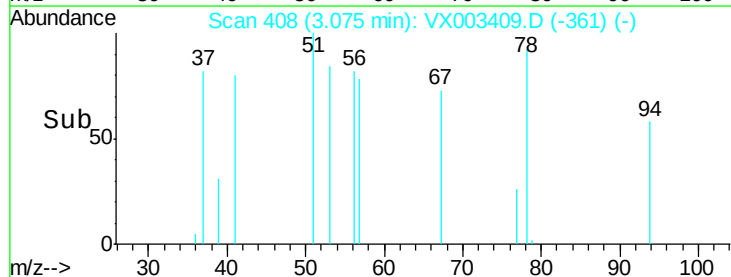
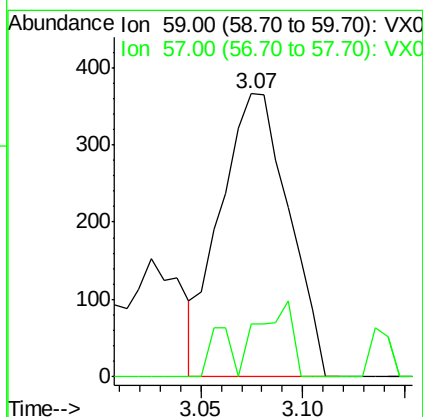
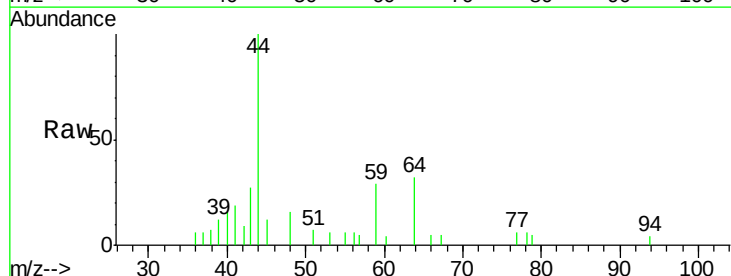
Instrument :
MSVOA_X
ClientSampleId :
PB111123ZHE#17

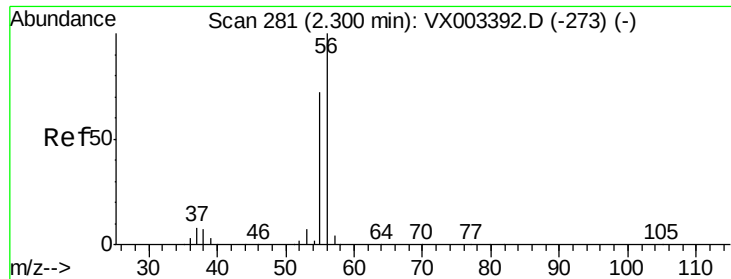
Tot Ion:142 Resp: 1568
Ion Ratio Lower Upper
142 100
127 21.4 36.6 55.0#
141 14.0 11.3 16.9



#11
Tert butyl alcohol
Concen: 1.04 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX003409.D
Acq: 17 Jul 2018 00:08

Tgt Ion: 59 Resp: 852
Ion Ratio Lower Upper
59 100
57 5.4 8.2 12.2#





#13

Acrolein

Concen: 0.80 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.00 min

Lab File: VX003409.D

Acq: 17 Jul 2018 00:08

Instrument :

MSVOA_X

ClientSampleId :

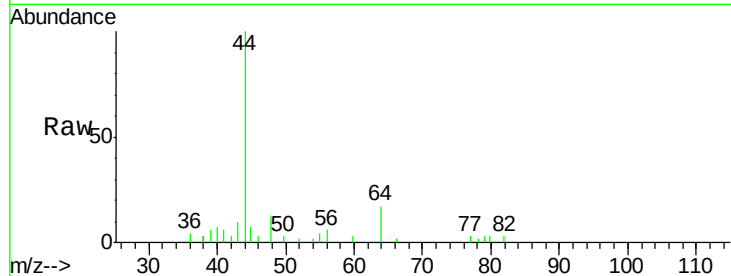
PB111123ZHE#17

Tot Ion: 56 Resp: 316

Ion Ratio Lower Upper

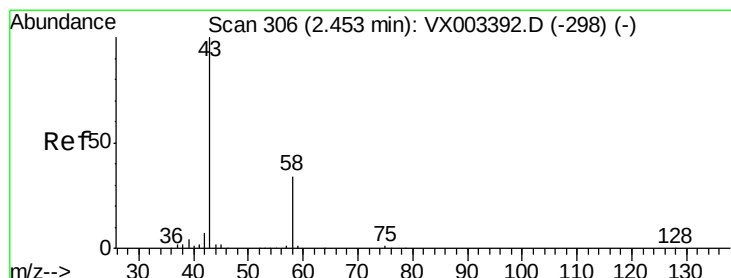
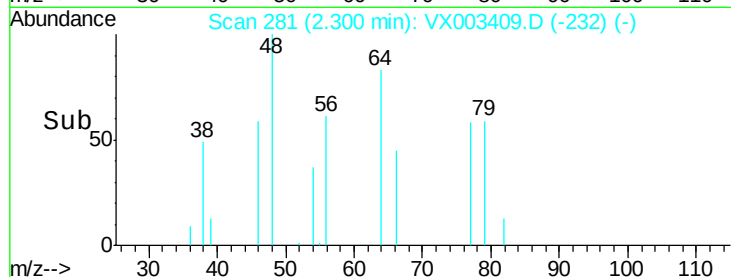
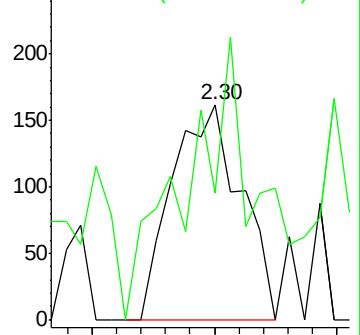
56 100

55 129.4 57.0 85.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 18.48 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX003409.D

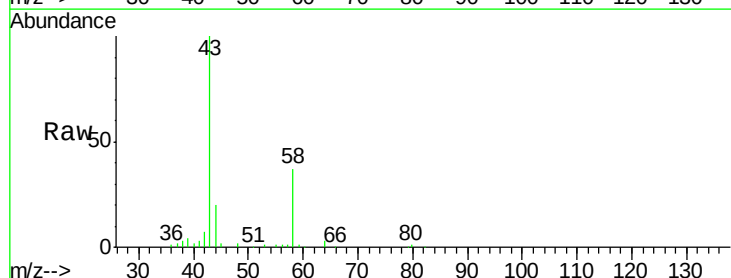
Acq: 17 Jul 2018 00:08

Tgt Ion: 43 Resp: 28112

Ion Ratio Lower Upper

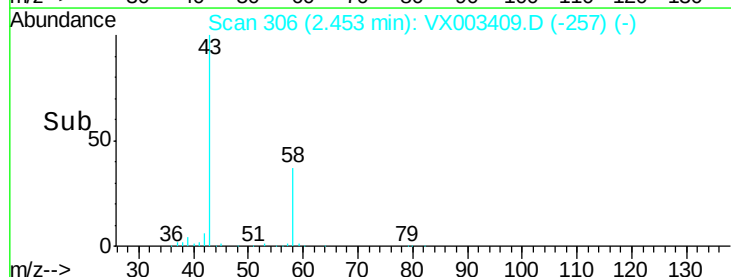
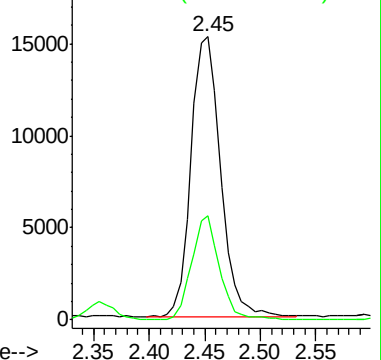
43 100

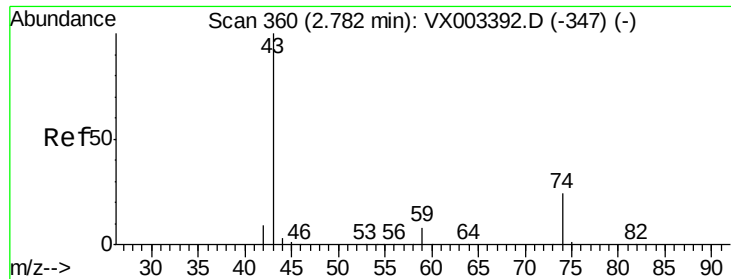
58 37.0 22.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

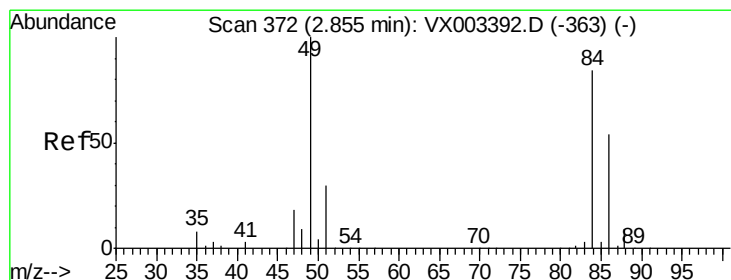
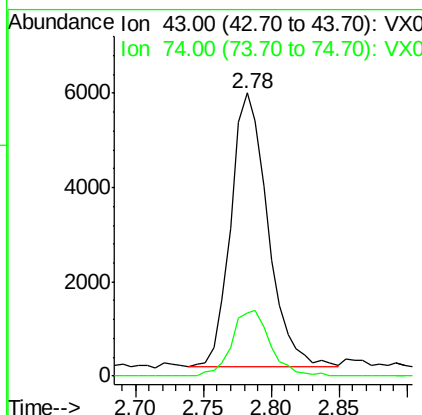
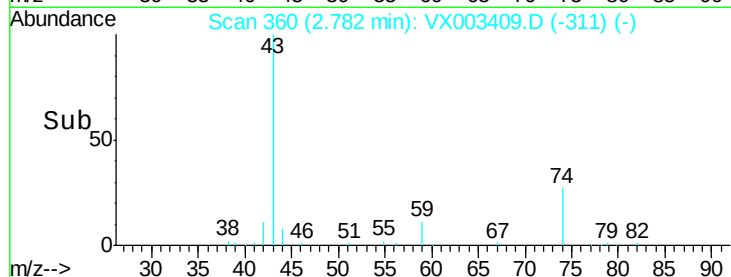
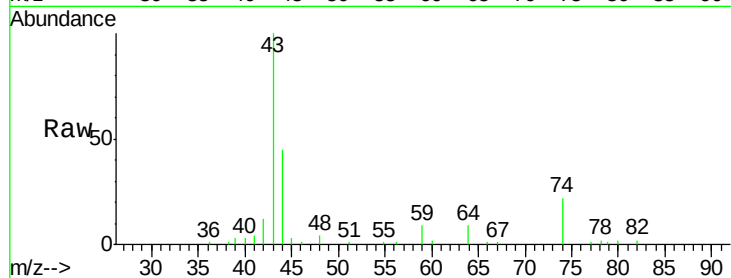




#18
Methyl Acetate
Concen: 2.21 ug/l
RT: 2.78 min Scan# 360
Delta R.T. 0.00 min
Lab File: VX003409.D
Acq: 17 Jul 2018 00:08

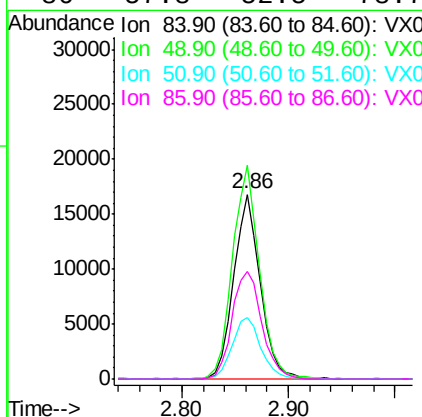
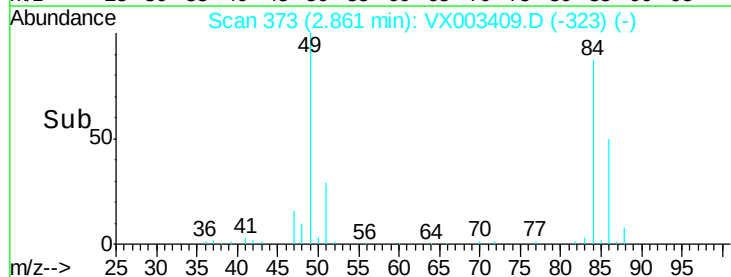
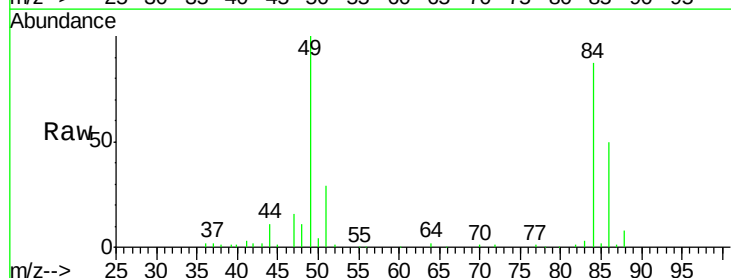
Instrument :
MSVOA_X
ClientSampleId :
PB111123ZHE#17

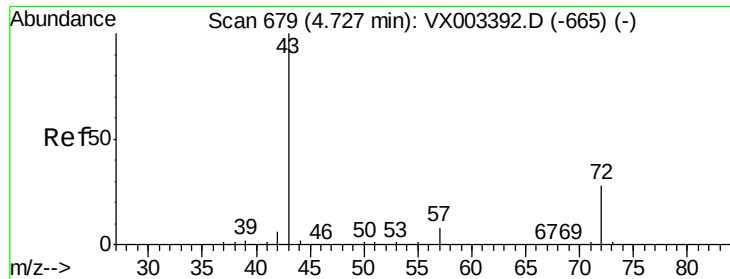
Tot Ion: 43 Resp: 10969
Ion Ratio Lower Upper
43 100
74 25.0 16.7 25.1



#20
Methylene Chloride
Concen: 7.94 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX003409.D
Acq: 17 Jul 2018 00:08

Tgt Ion: 84 Resp: 29508
Ion Ratio Lower Upper
84 100
49 115.5 107.8 161.6
51 33.4 32.8 49.2
86 57.8 52.5 78.7





#25

2-Butanone

Concen: 2.07 ug/l

RT: 4.71 min Scan# 677

Delta R.T. -0.01 min

Lab File: VX003409.D

Acq: 17 Jul 2018 00:08

Instrument :

MSVOA_X

ClientSampleId :

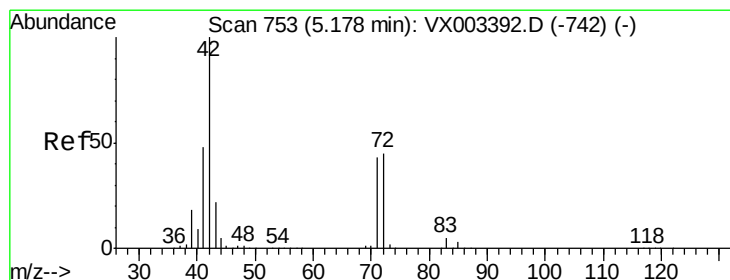
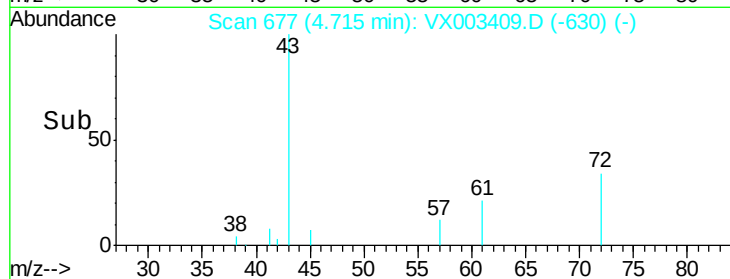
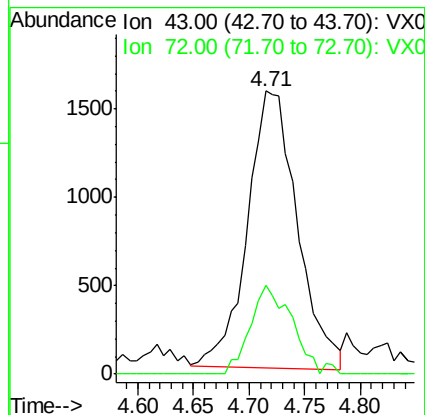
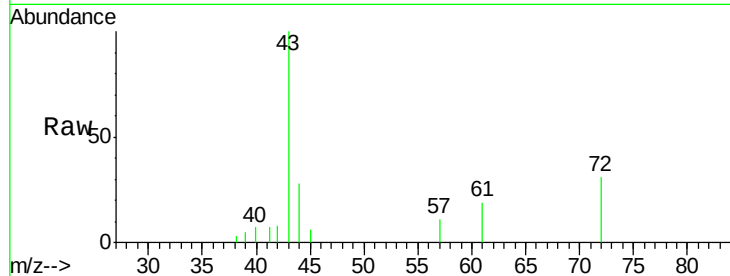
PB111123ZHE#17

Tot Ion: 43 Resp: 4922

Ion Ratio Lower Upper

43 100

72 32.4 18.5 27.7#



#29

Tetrahydrofuran

Concen: 0.88 ug/l

RT: 5.17 min Scan# 752

Delta R.T. -0.01 min

Lab File: VX003409.D

Acq: 17 Jul 2018 00:08

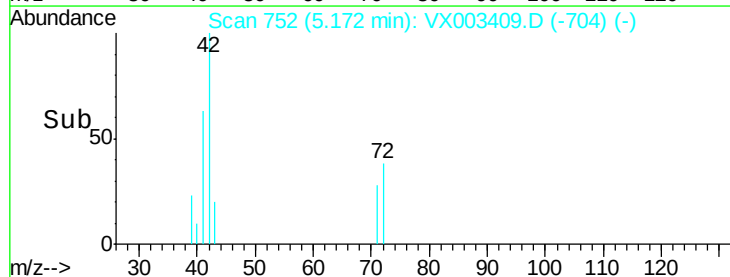
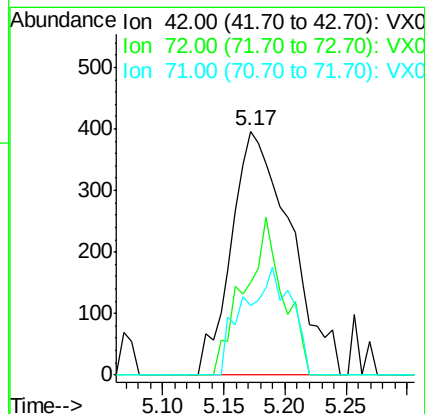
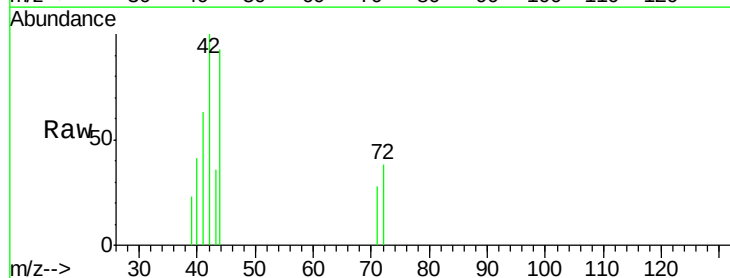
Tgt Ion: 42 Resp: 1329

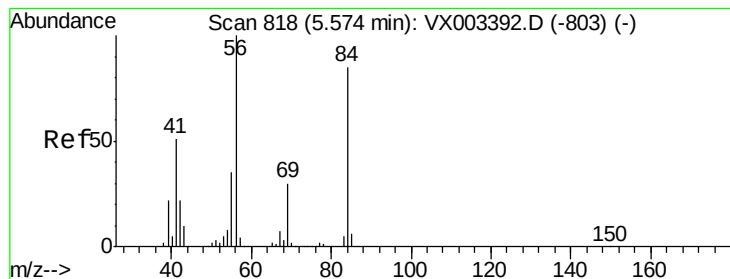
Ion Ratio Lower Upper

42 100

72 43.3 32.0 48.0

71 35.4 30.1 45.1





#31

Cyclohexane

Concen: 1.03 ug/l

RT: 5.66 min Scan# 832

Delta R.T. 0.09 min

Lab File: VX003409.D

Acq: 17 Jul 2018 00:08

Instrument :

MSVOA_X

ClientSampleId :

PB111123ZHE#17

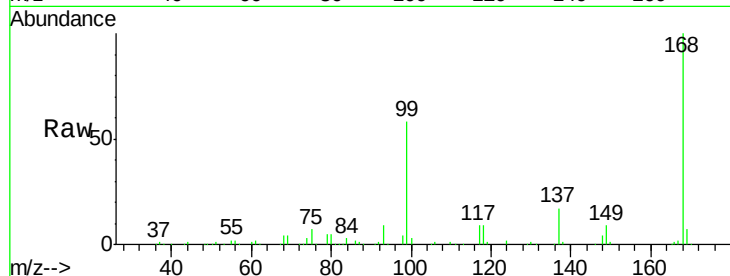
Tot Ion: 56 Resp: 4688

Ion Ratio Lower Upper

56 100

69 192.3 23.7 35.5#

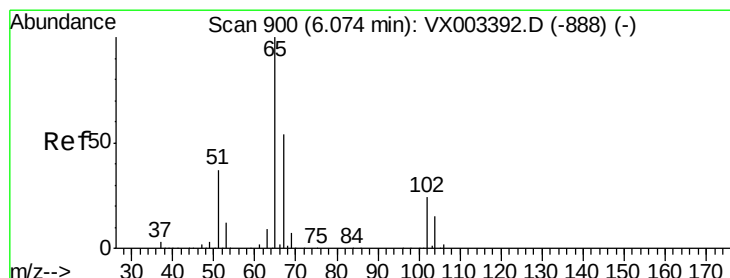
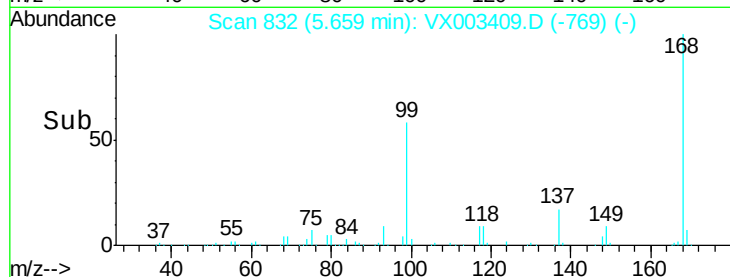
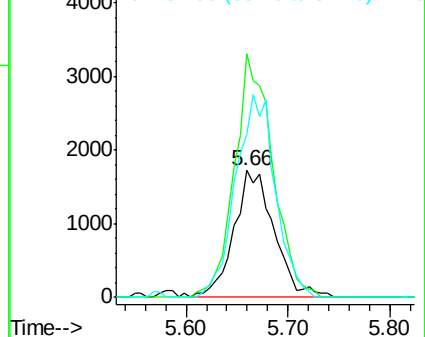
84 128.4 64.1 96.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 49.71 ug/l

RT: 6.08 min Scan# 901

Delta R.T. 0.01 min

Lab File: VX003409.D

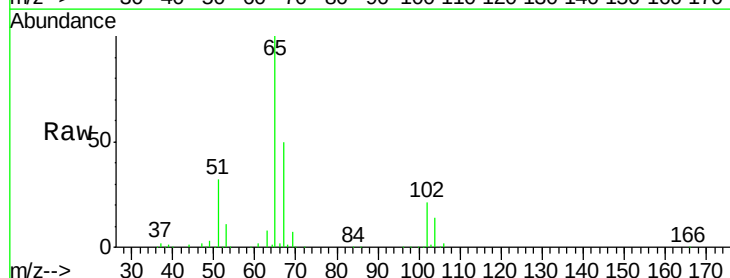
Acq: 17 Jul 2018 00:08

Tgt Ion: 65 Resp: 181774

Ion Ratio Lower Upper

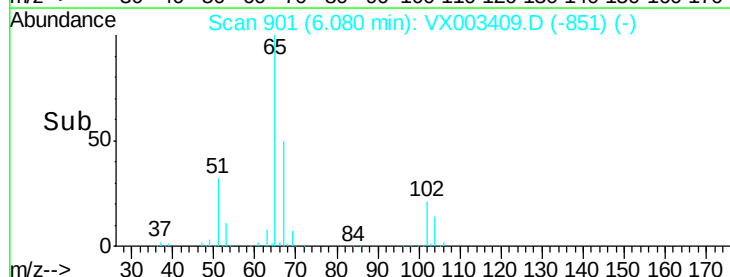
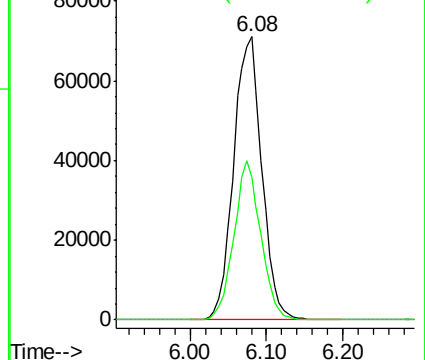
65 100

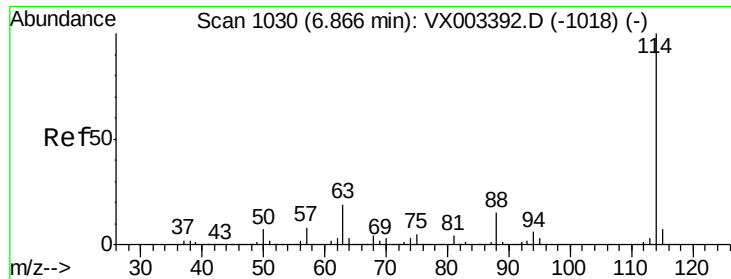
67 53.2 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

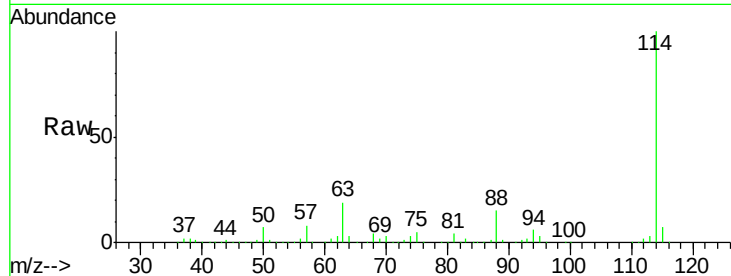




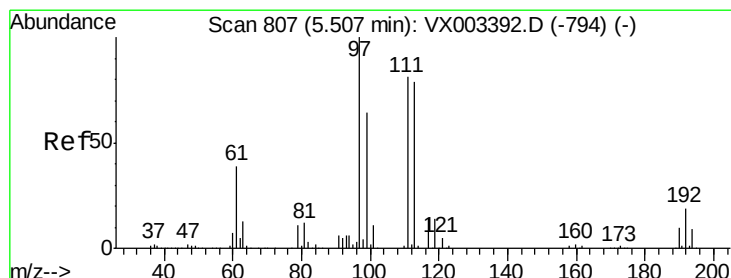
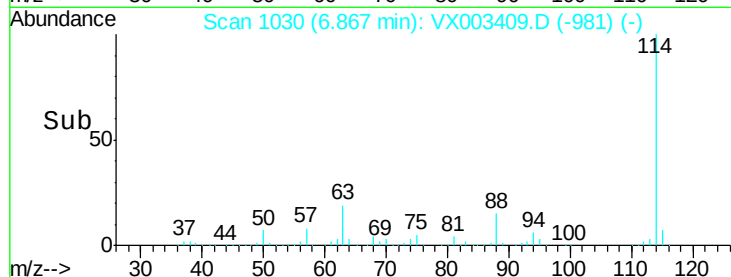
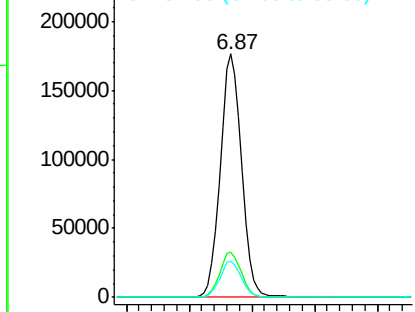
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.87 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VX003409.D
Acq: 17 Jul 2018 00:08

Instrument :
MSVOA_X
ClientSampleId :
PB111123ZHE#17

Tot Ion:114 Resp: 414458
Ion Ratio Lower Upper
114 100
63 18.5 0.0 41.4
88 15.1 0.0 30.0

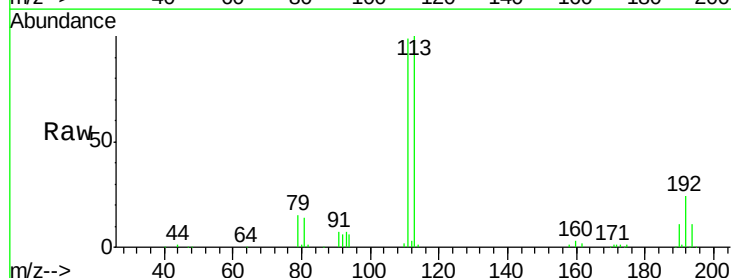


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

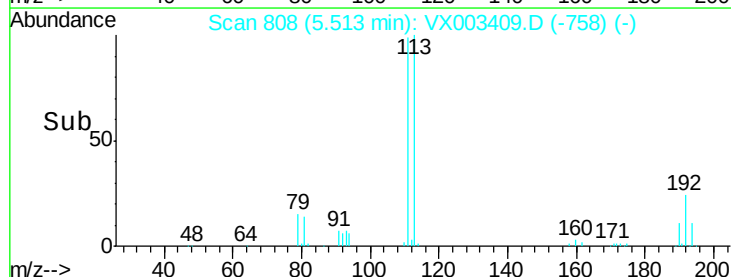
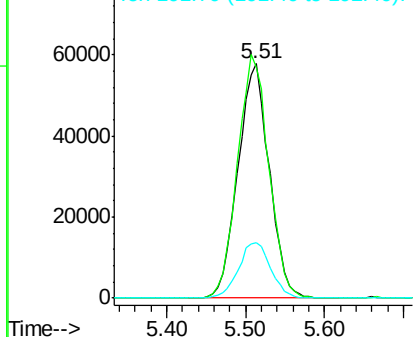


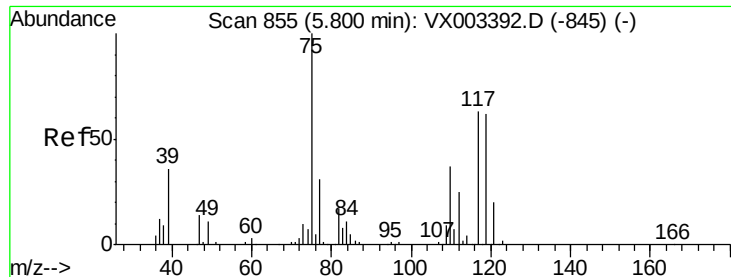
#35
Dibromofluoromethane
Concen: 47.54 ug/l
RT: 5.51 min Scan# 808
Delta R.T. 0.01 min
Lab File: VX003409.D
Acq: 17 Jul 2018 00:08

Tgt Ion:113 Resp: 159420
Ion Ratio Lower Upper
113 100
111 103.9 81.4 122.0
192 24.3 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: 4.15 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX003409.D

Acq: 17 Jul 2018 00:08

Instrument :

MSVOA_X

ClientSampleId :

PB111123ZHE#17

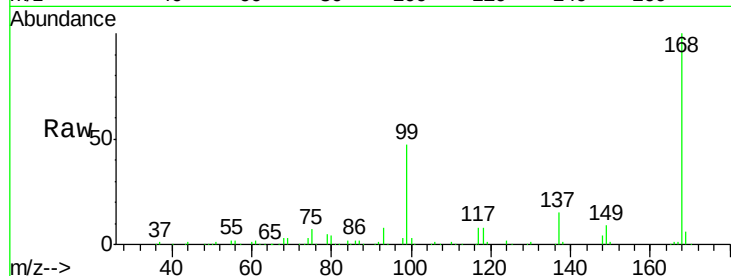
Tot Ion: 75 Resp: 17436

Ion Ratio Lower Upper

75 100

110 10.0 18.1 54.4#

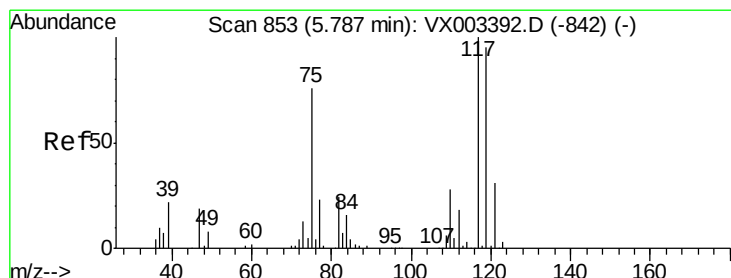
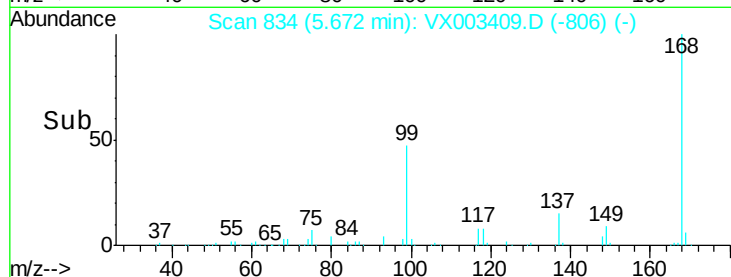
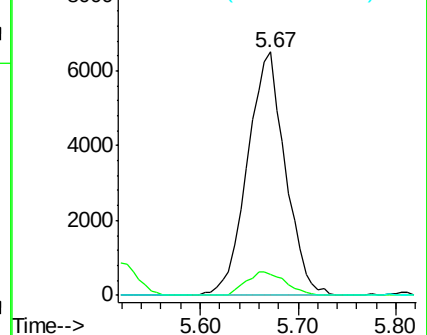
77 0.0 24.3 36.5#



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: 5.53 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX003409.D

Acq: 17 Jul 2018 00:08

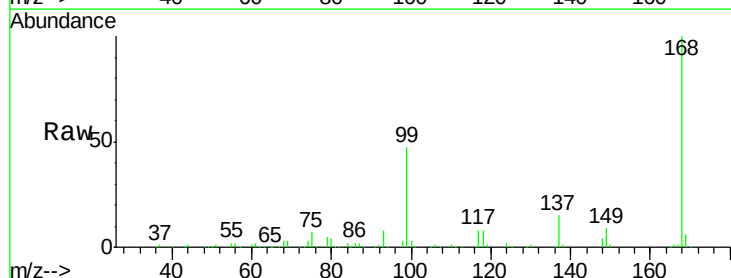
Tgt Ion: 117 Resp: 23627

Ion Ratio Lower Upper

117 100

119 7.7 77.4 116.0#

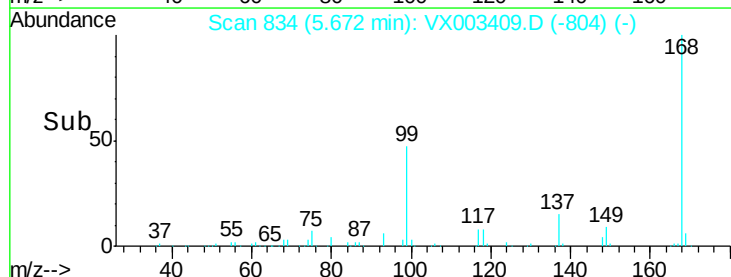
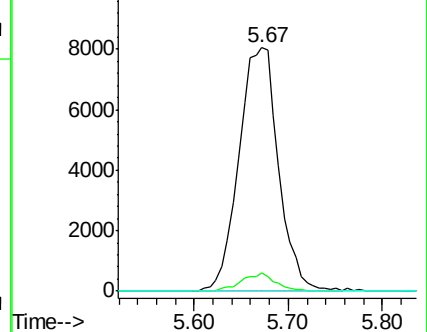
121 0.0 24.4 36.6#

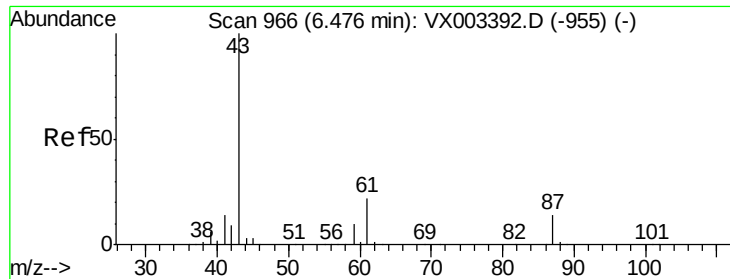


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 18.61 ug/l

RT: 6.48 min Scan# 966

Delta R.T. 0.00 min

Lab File: VX003409.D

Acq: 17 Jul 2018 00:08

Instrument :

MSVOA_X

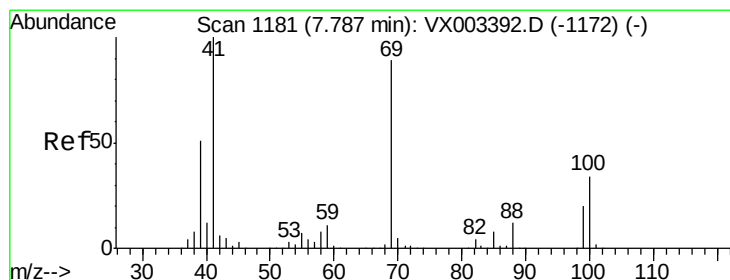
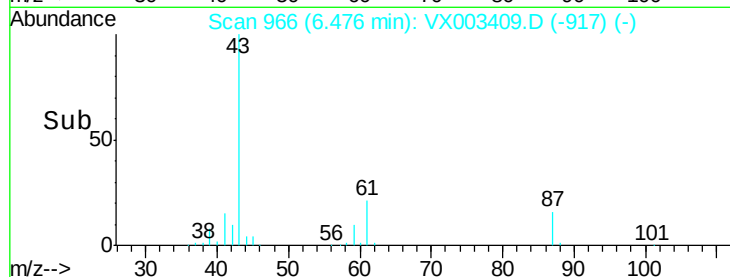
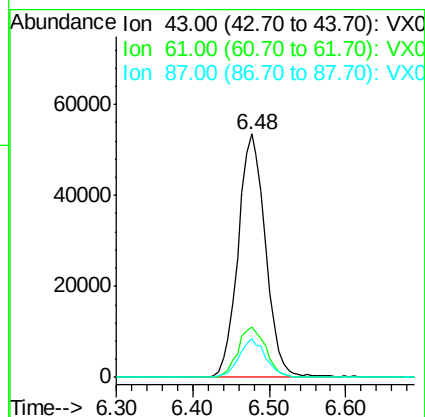
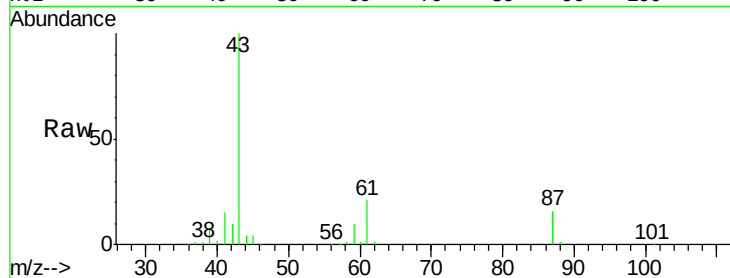
ClientSampleId :

PB111123ZHE#17

Tot Ion: 43 Resp: 132859

Ion Ratio Lower Upper

43	100		
61	21.3	14.4	21.6
87	15.3	9.5	14.3#



#48

Methyl methacrylate

Concen: 0.71 ug/l

RT: 7.76 min Scan# 1177

Delta R.T. -0.02 min

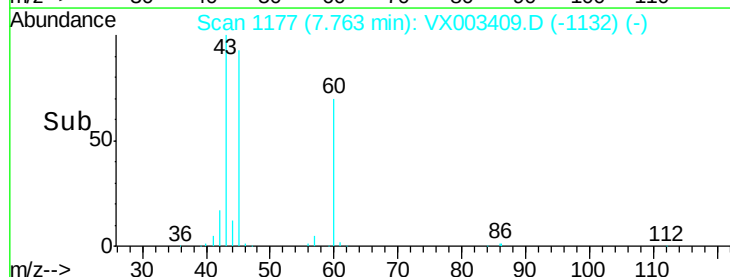
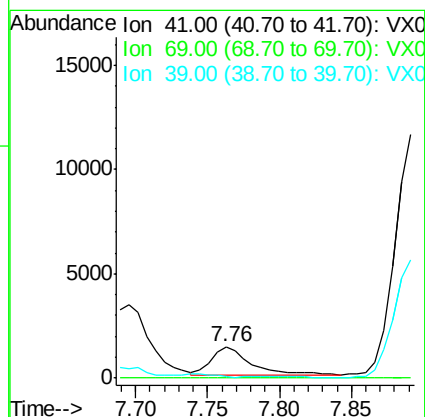
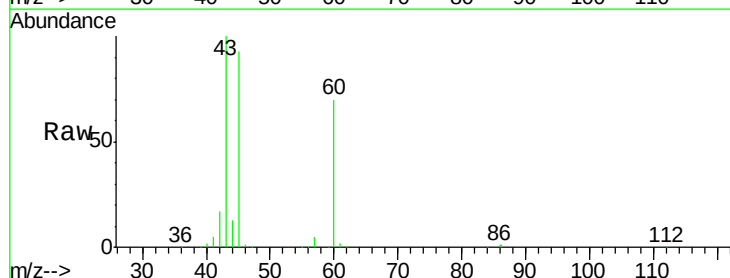
Lab File: VX003409.D

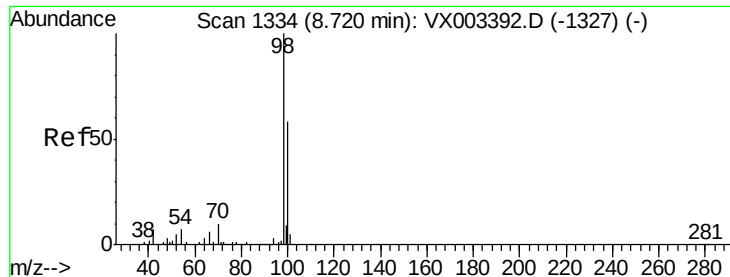
Acq: 17 Jul 2018 00:08

Tgt Ion: 41 Resp: 2585

Ion Ratio Lower Upper

41	100		
69	0.0	59.1	88.7#
39	0.0	48.9	73.3#

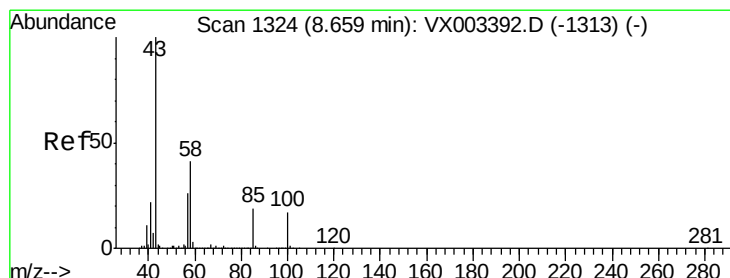
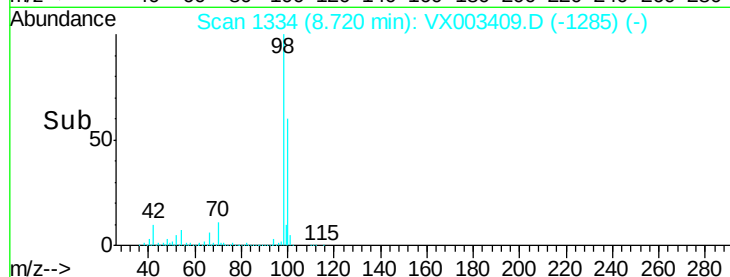
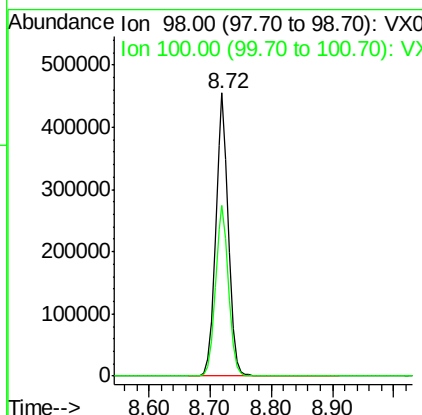
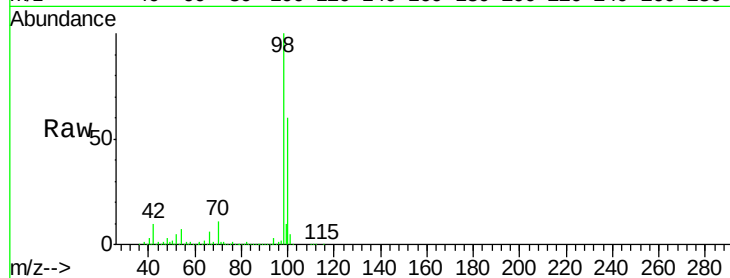




#50
Toluene-d8
Concen: 54.27 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003409.D
Acq: 17 Jul 2018 00:08

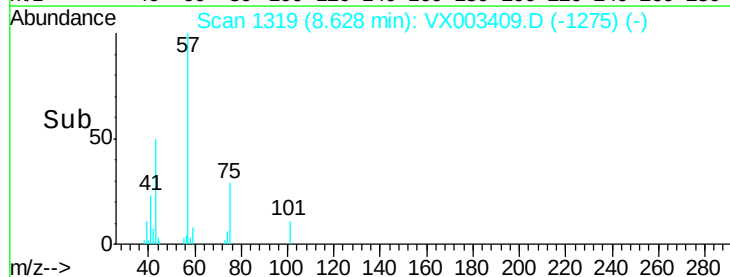
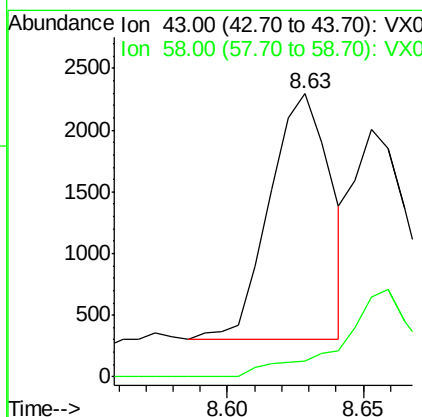
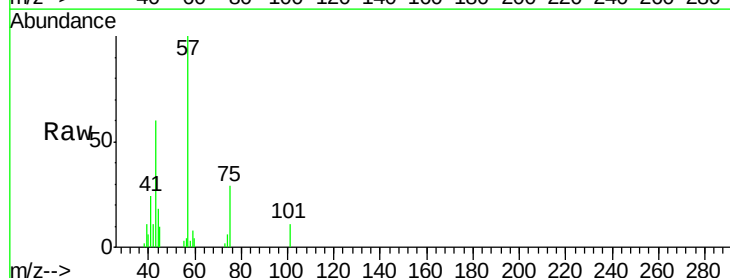
Instrument :
MSVOA_X
ClientSampleId :
PB111123ZHE#17

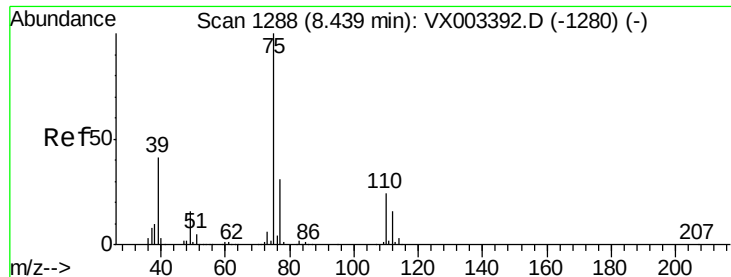
Tot Ion: 98 Resp: 671605
Ion Ratio Lower Upper
98 100
100 62.8 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 0.66 ug/l
RT: 8.63 min Scan# 1319
Delta R.T. -0.03 min
Lab File: VX003409.D
Acq: 17 Jul 2018 00:08

Tgt Ion: 43 Resp: 3109
Ion Ratio Lower Upper
43 100
58 0.0 28.6 42.8#

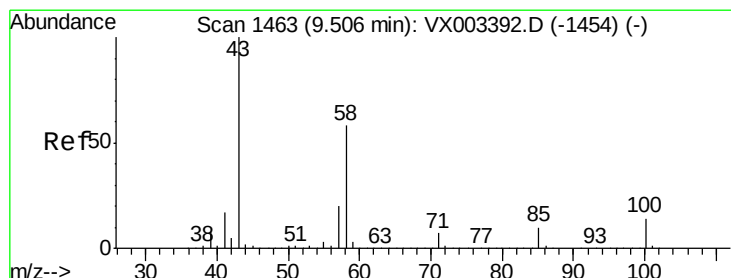
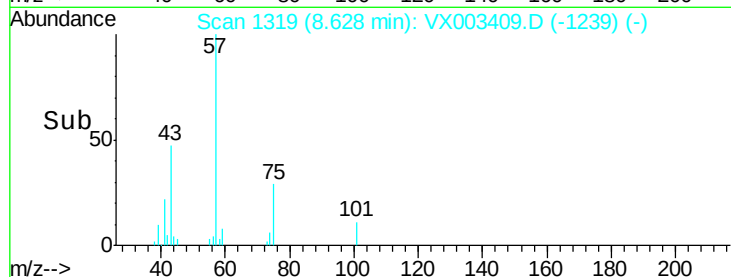
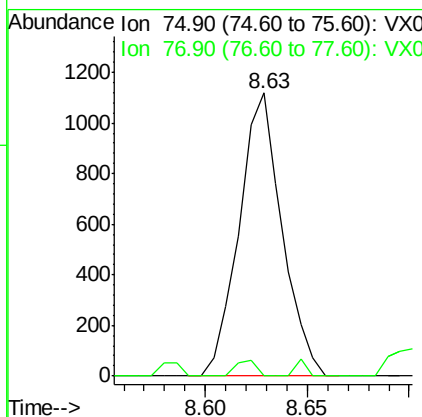
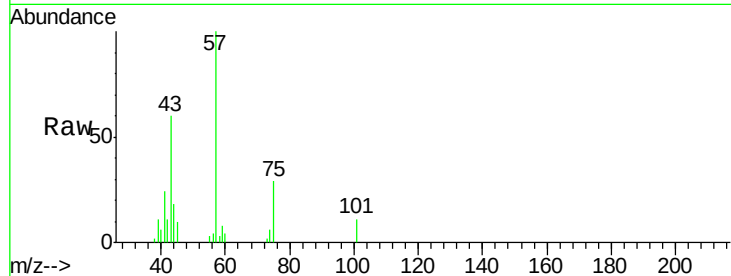




#53
t-1,3-Dichloropropene
Concen: 0.34 ug/l
RT: 8.63 min Scan# 1319
Delta R.T. 0.19 min
Lab File: VX003409.D
Acq: 17 Jul 2018 00:08

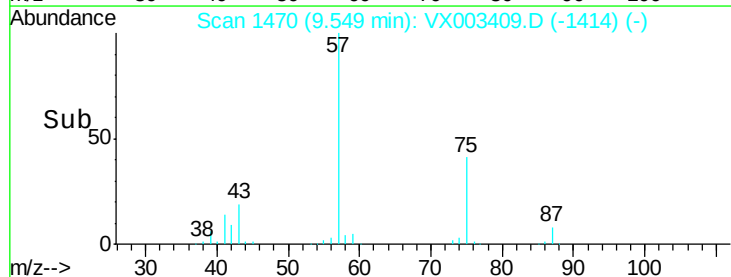
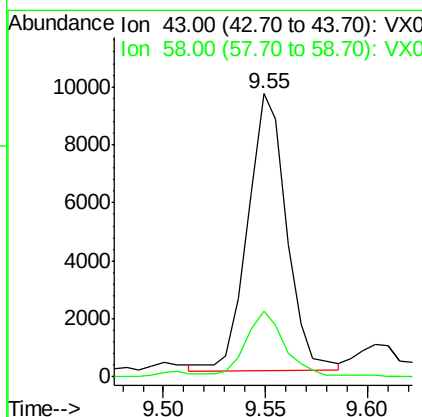
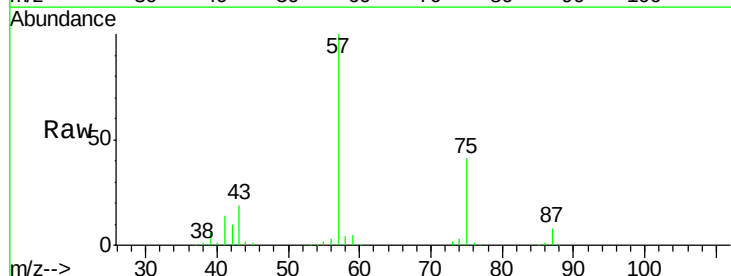
Instrument :
MSVOA_X
ClientSampleId :
PB111123ZHE#17

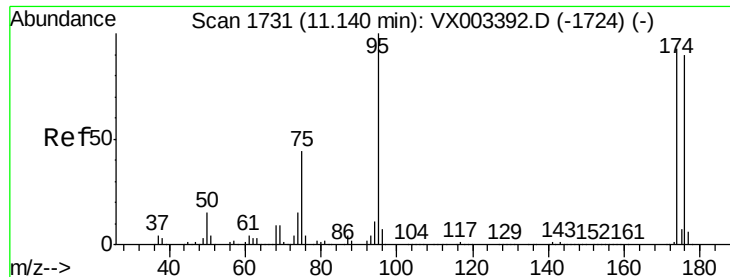
Tot Ion: 75 Resp: 1632
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.2#



#59
2-Hexanone
Concen: 3.51 ug/l
RT: 9.55 min Scan# 1470
Delta R.T. 0.04 min
Lab File: VX003409.D
Acq: 17 Jul 2018 00:08

Tgt Ion: 43 Resp: 12683
Ion Ratio Lower Upper
43 100
58 22.2 24.6 73.6#





#62

4-Bromofluorobenzene

Concen: 50.43 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003409.D

Acq: 17 Jul 2018 00:08

Instrument :

MSVOA_X

ClientSampleId :

PB111123ZHE#17

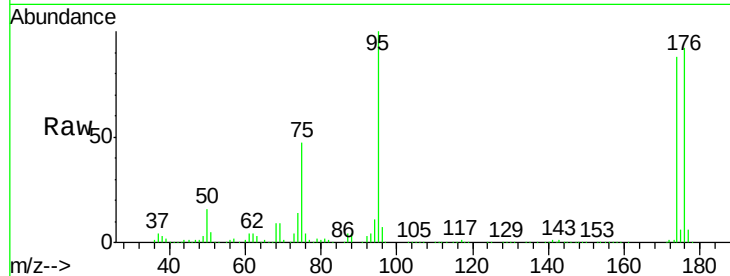
Tot Ion: 95 Resp: 222807

Ion Ratio Lower Upper

95 100

174 92.4 0.0 187.4

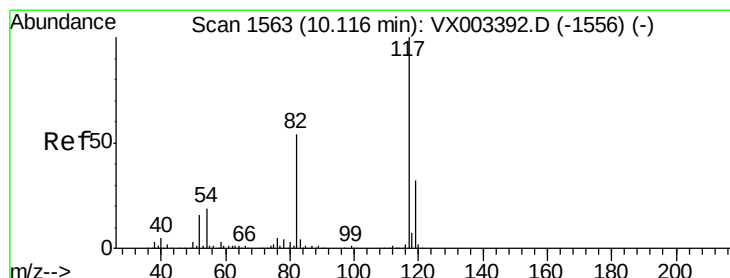
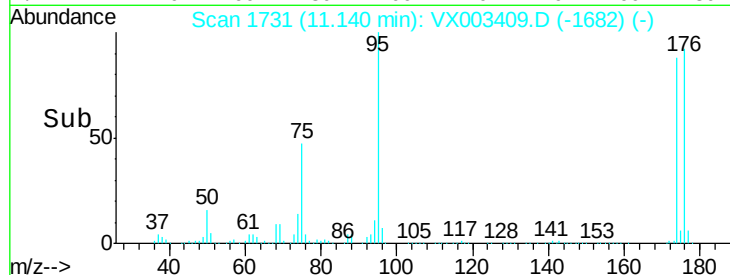
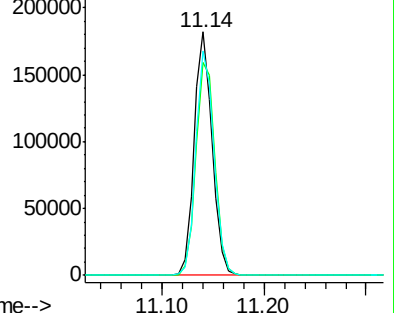
176 93.0 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX003392.D (-1724) (-)

Ion 173.80 (173.50 to 174.50): VX003392.D (-1724) (-)

Ion 175.80 (175.50 to 176.50): VX003392.D (-1724) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX003409.D

Acq: 17 Jul 2018 00:08

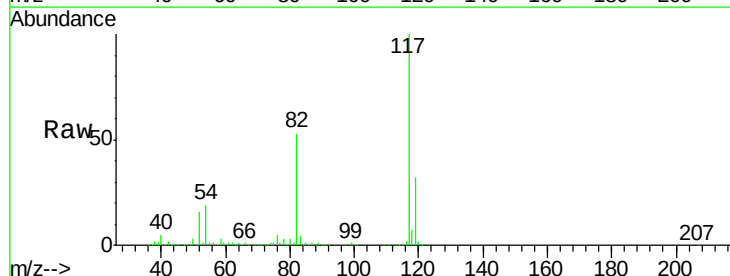
Tgt Ion: 117 Resp: 391876

Ion Ratio Lower Upper

117 100

82 53.0 45.0 67.4

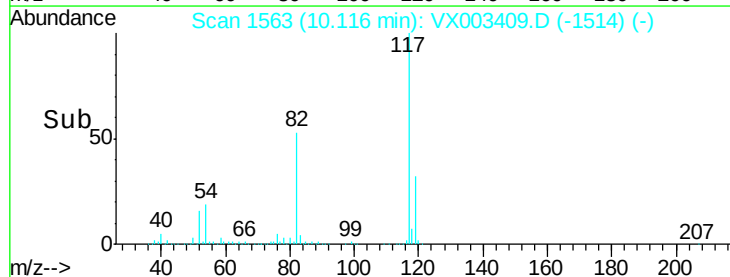
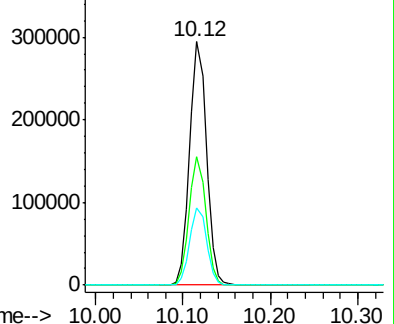
119 31.9 25.8 38.6

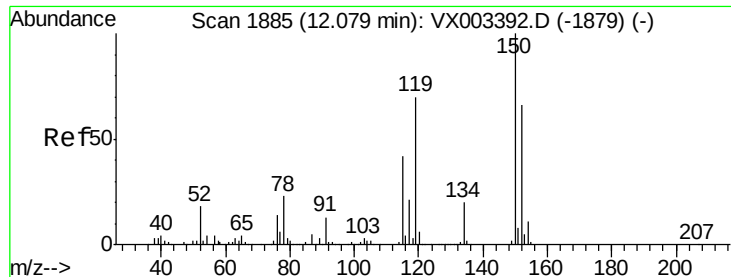


Abundance Ion 116.90 (116.60 to 117.60): VX003392.D (-1556) (-)

Ion 82.00 (81.70 to 82.70): VX003392.D (-1556) (-)

Ion 118.90 (118.60 to 119.60): VX003392.D (-1556) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.01 min

Lab File: VX003409.D

Acq: 17 Jul 2018 00:08

Instrument :

MSVOA_X

ClientSampleId :

PB111123ZHE#17

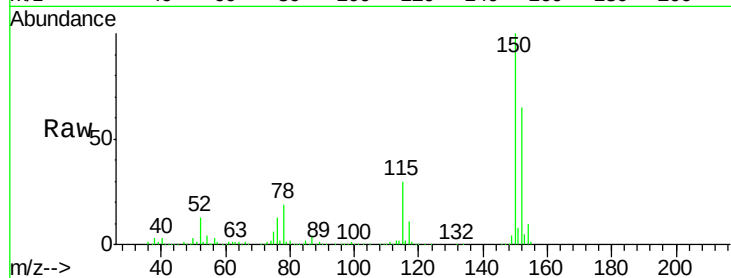
Tot Ion:152 Resp: 234082

Ion Ratio Lower Upper

152 100

115 51.9 40.1 120.2

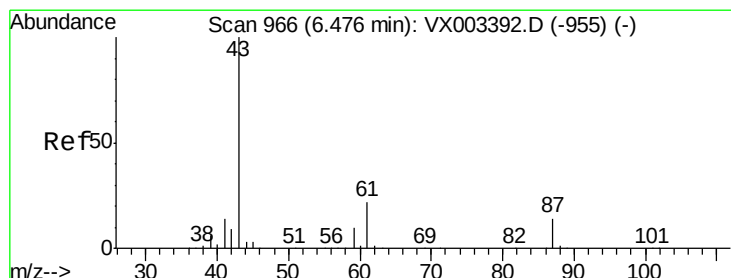
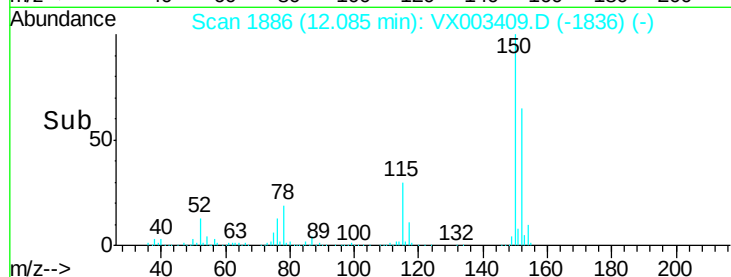
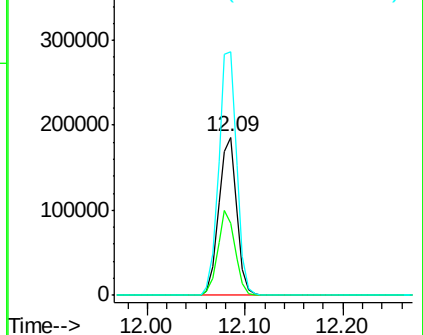
150 156.1 0.0 347.2



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-amil acetate

Concen: 18.43 ug/l

RT: 6.48 min Scan# 966

Delta R.T. 0.00 min

Lab File: VX003409.D

Acq: 17 Jul 2018 00:08

Tgt Ion: 43 Resp: 132859

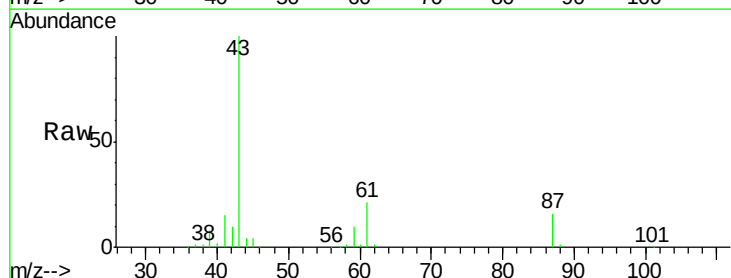
Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 0.0 0.0 0.0#

61 21.3 14.4 21.6

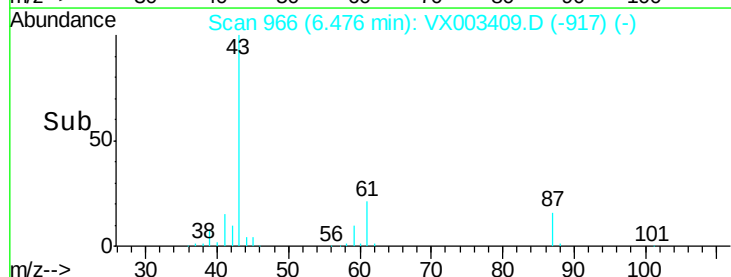
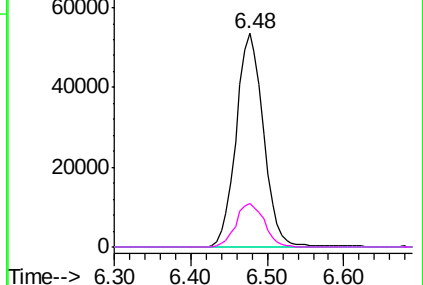


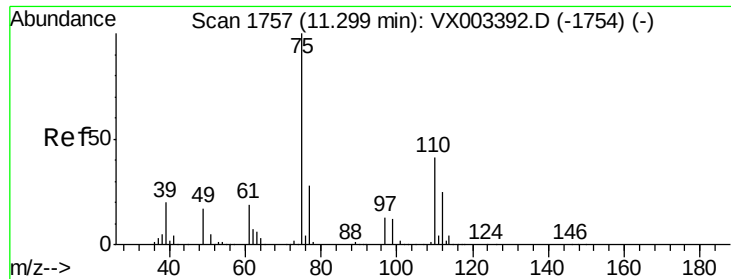
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 23.73 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003409.D

Acq: 17 Jul 2018 00:08

Instrument :

MSVOA_X

ClientSampleId :

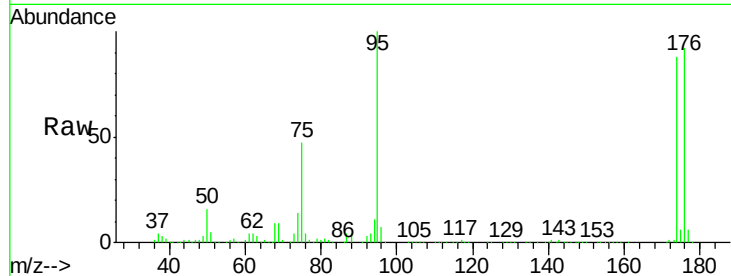
PB111123ZHE#17

Tot Ion: 75 Resp: 100568

Ion Ratio Lower Upper

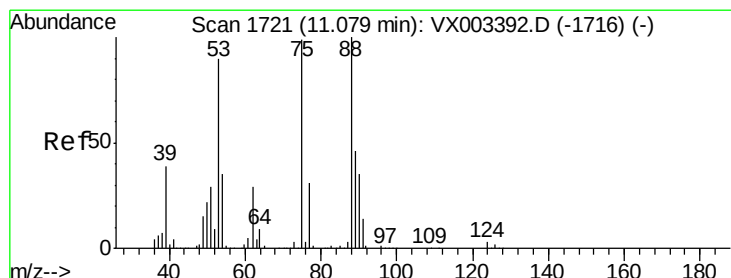
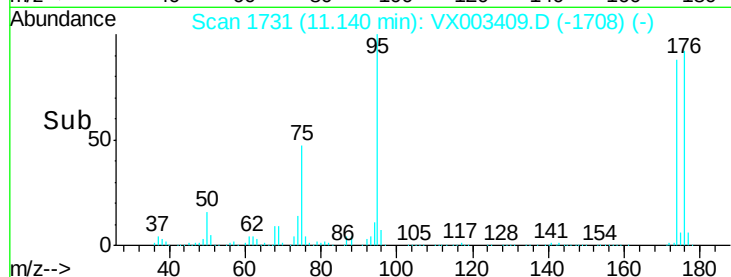
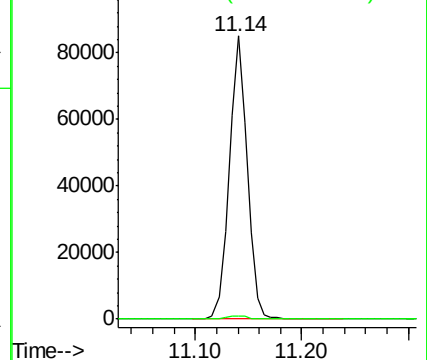
75 100

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: 77.10 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003409.D

Acq: 17 Jul 2018 00:08

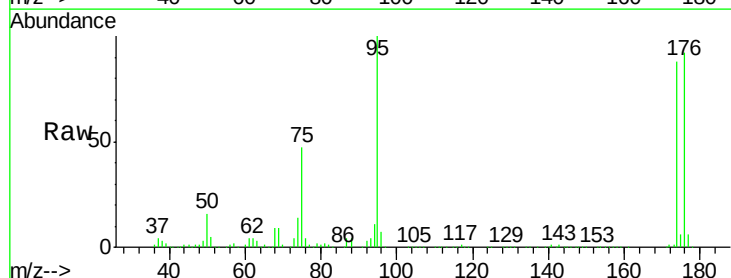
Tgt Ion: 75 Resp: 100568

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

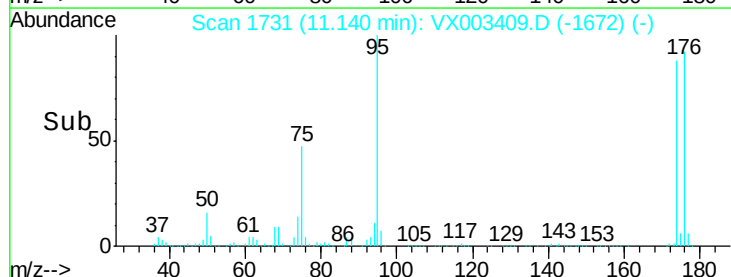
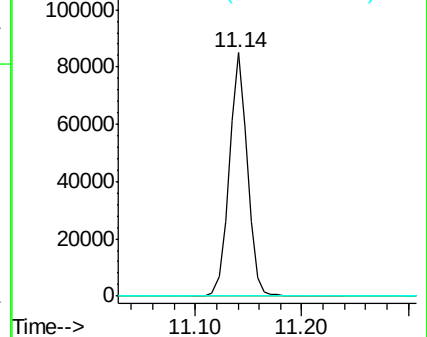
89 0.0 38.2 57.2#

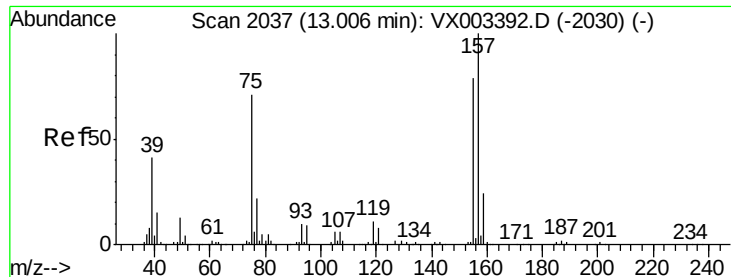


Abundance Ion 74.90 (74.60 to 75.60): VX0

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: 0.31 ug/l

RT: 12.99 min Scan# 2034

Delta R.T. -0.02 min

Lab File: VX003409.D

Acq: 17 Jul 2018 00:08

Instrument :

MSVOA_X

ClientSampleId :

PB111123ZHE#17

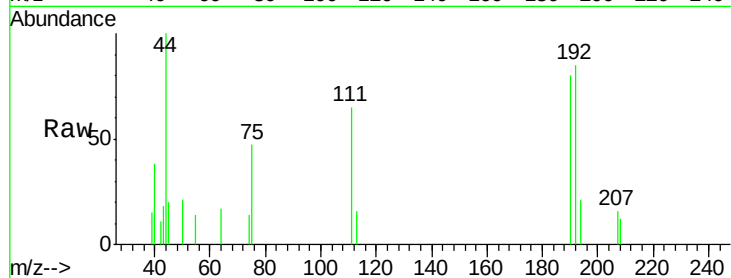
Tot Ion: 75 Resp: 324

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

