

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX071618\
 Data File : VX003408.D
 Acq On : 16 Jul 2018 23:41
 Operator : JC/MD
 Sample : PB111123ZHE#16
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB111123ZHE#16

Quant Time: Jul 17 02:00:56 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	265916	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	383301	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	350208	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	203502	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	171854	49.35	ug/l	0.00
Spiked Amount			Recovery	=	98.70%	
35) Dibromofluoromethane	5.51	113	151131	48.73	ug/l	0.00
Spiked Amount			Recovery	=	97.46%	
50) Toluene-d8	8.72	98	590887	51.63	ug/l	0.00
Spiked Amount			Recovery	=	103.26%	
62) 4-Bromofluorobenzene	11.14	95	200399	49.04	ug/l	0.00
Spiked Amount			Recovery	=	98.08%	

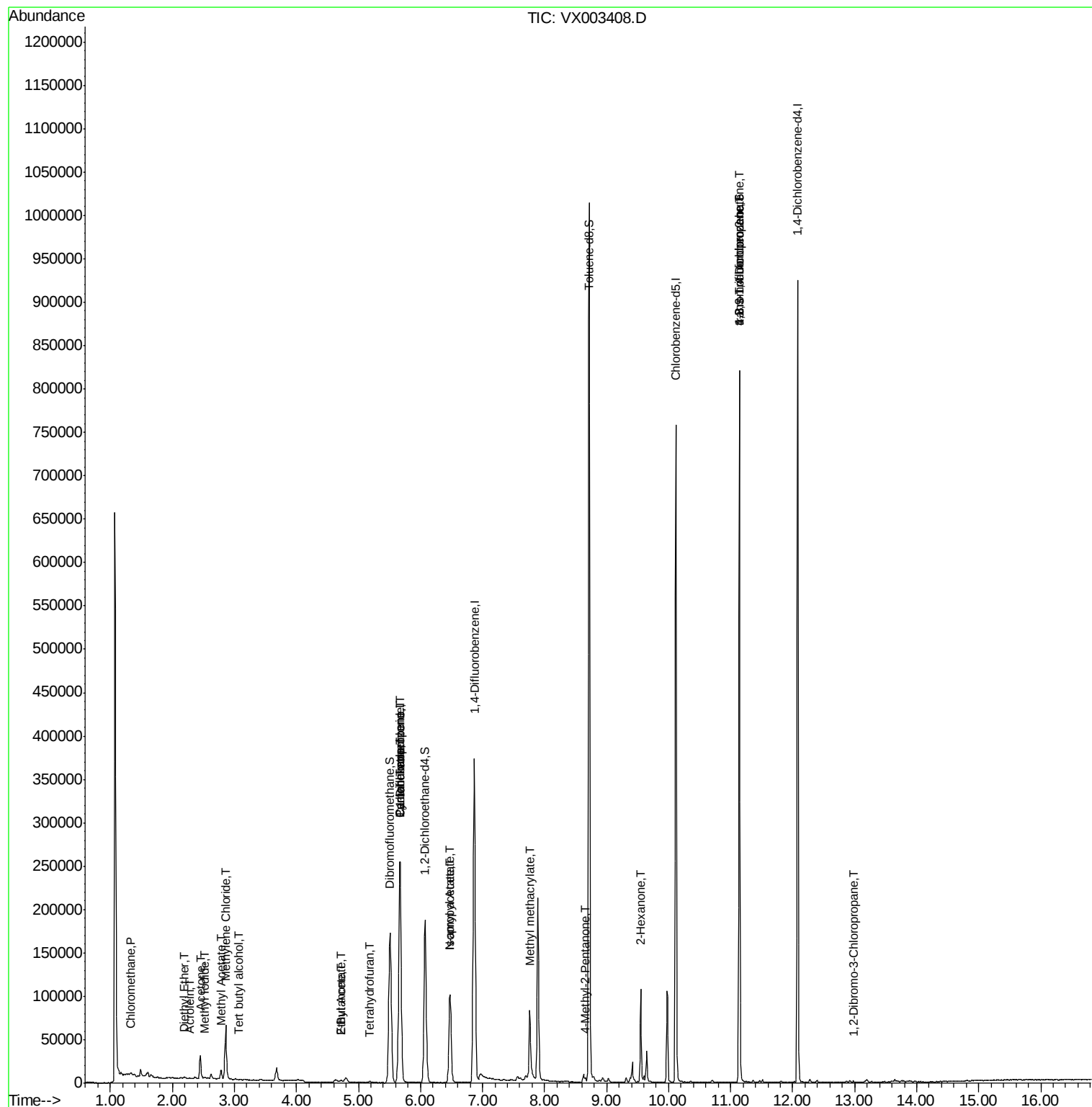
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	962	0.30	ug/l	98
5) Bromomethane	1.65	94	2401	Below Cal		96
6) Chloroethane	1.73	64	73	Below Cal	#	43
8) Diethyl Ether	2.19	74	490	0.24	ug/l	95
10) Methyl Iodide	2.52	142	1702	0.54	ug/l	# 93
11) Tert butyl alcohol	3.08	59	905	1.16	ug/l	# 85
13) Acrolein	2.29	56	257	0.68	ug/l	92
16) Acetone	2.45	43	29527	20.39	ug/l	# 84
18) Methyl Acetate	2.78	43	11360	2.41	ug/l	# 89
20) Methylene Chloride	2.86	84	30531	9.08	ug/l	89
25) 2-Butanone	4.72	43	5689	2.51	ug/l	98
29) Tetrahydrofuran	5.18	42	1345	0.94	ug/l	# 84
31) Cyclohexane	5.67	56	4397	1.02	ug/l	# 1
36) 1,1-Dichloropropene	5.67	75	17110	4.41	ug/l	# 49
37) Ethyl Acetate	4.72	43	5689	1.30	ug/l	# 70
38) Carbon Tetrachloride	5.67	117	22869	5.79	ug/l	# 18
43) Isopropyl Acetate	6.48	43	132307	20.04	ug/l	93
48) Methyl methacrylate	7.76	41	2746	0.82	ug/l	# 16
51) 4-Methyl-2-Pentanone	8.66	43	1932	0.44	ug/l	# 47
59) 2-Hexanone	9.55	43	12222	3.66	ug/l	# 59
74) N-amyl acetate	6.48	43	132307	21.11	ug/l	# 92
76) 1,2,3-Trichloropropane	11.14	75	96010	26.06	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	96010	84.66	ug/l	# 7
92) 1,2-Dibromo-3-Chloropropan	12.98	75	309	0.35	ug/l	# 1

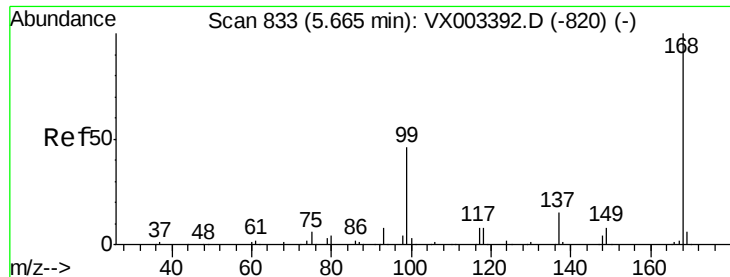
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX071618\
Data File : VX003408.D
Acq On : 16 Jul 2018 23:41
Operator : JC/MD
Sample : PB111123ZHE#16
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
PB111123ZHE#16

Quant Time: Jul 17 02:00:56 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: VX003408.D

Acq: 16 Jul 2018 23:41

Instrument :

MSVOA_X

ClientSampleId :

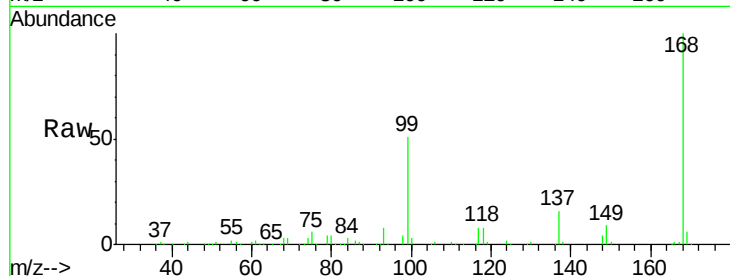
PB111123ZHE#16

Tot Ion:168 Resp: 265916

Ion Ratio Lower Upper

168 100

99 51.4 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

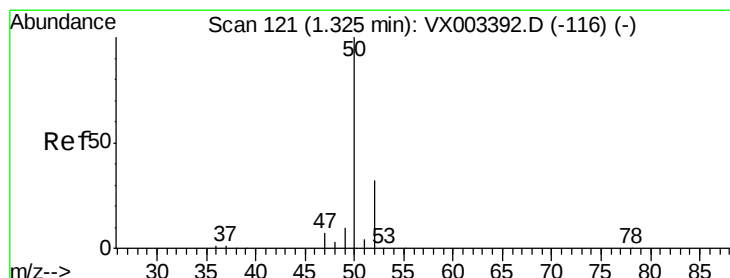
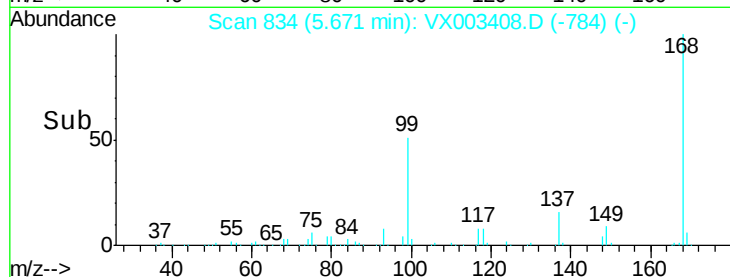
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.30 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX003408.D

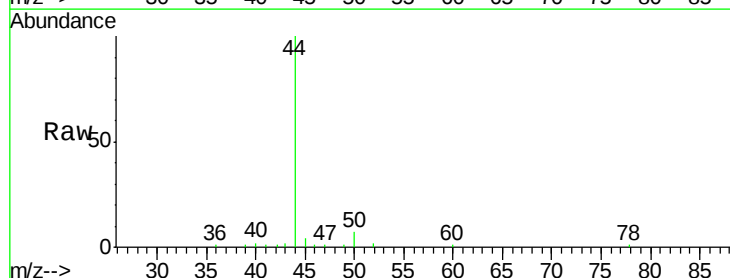
Acq: 16 Jul 2018 23:41

Tgt Ion: 50 Resp: 962

Ion Ratio Lower Upper

50 100

52 33.4 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

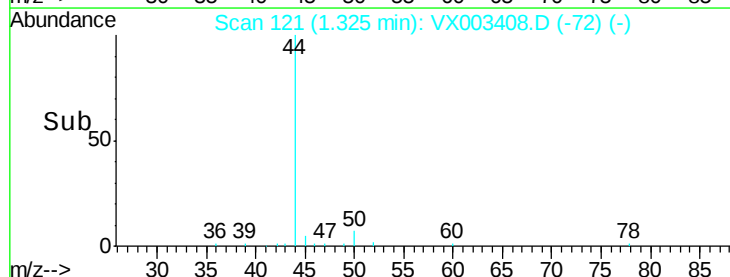
600

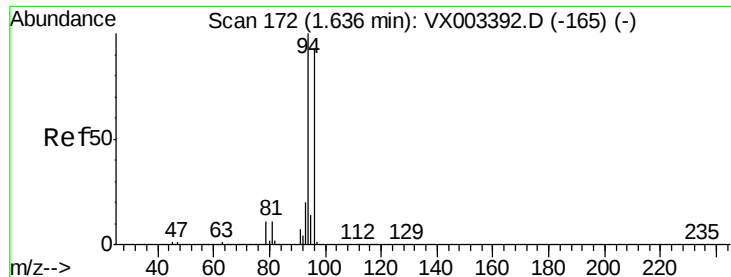
400

200

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: VX003408.D

Acq: 16 Jul 2018 23:41

Instrument :

MSVOA_X

ClientSampleId :

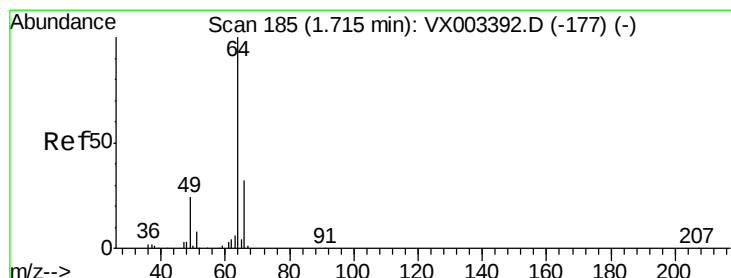
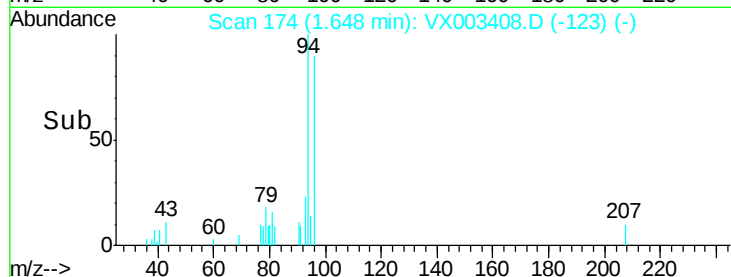
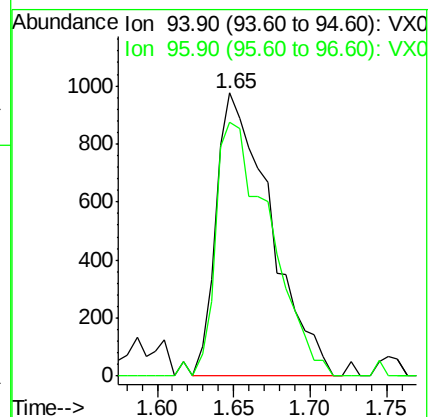
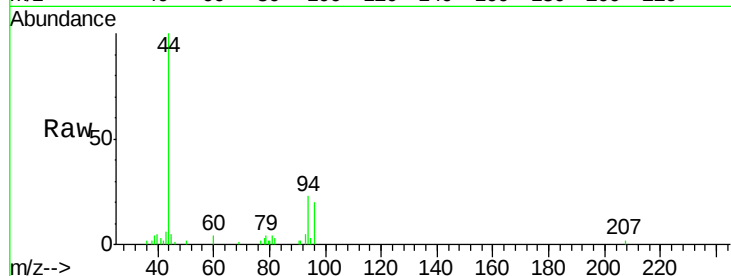
PB111123ZHE#16

Tot Ion: 94 Resp: 2401

Ion Ratio Lower Upper

94 100

96 89.6 74.9 112.3



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 187

Delta R.T. 0.01 min

Lab File: VX003408.D

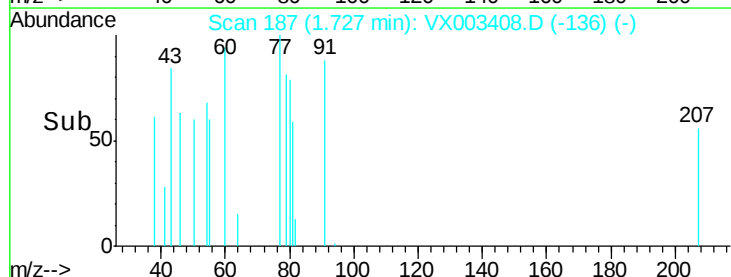
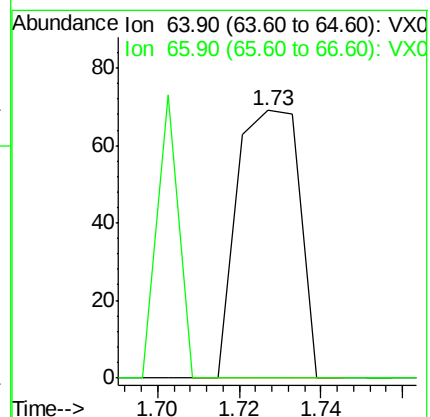
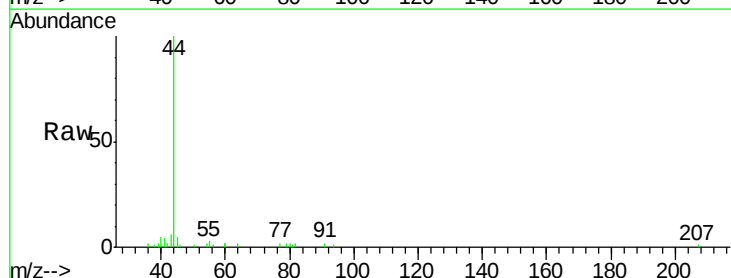
Acq: 16 Jul 2018 23:41

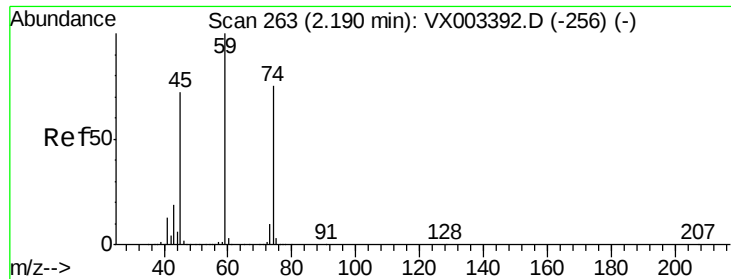
Tgt Ion: 64 Resp: 73

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#





#8

Diethyl Ether

Concen: 0.24 ug/l

RT: 2.19 min Scan# 263

Delta R.T. -0.00 min

Lab File: VX003408.D

Acq: 16 Jul 2018 23:41

Instrument :

MSVOA_X

ClientSampleId :

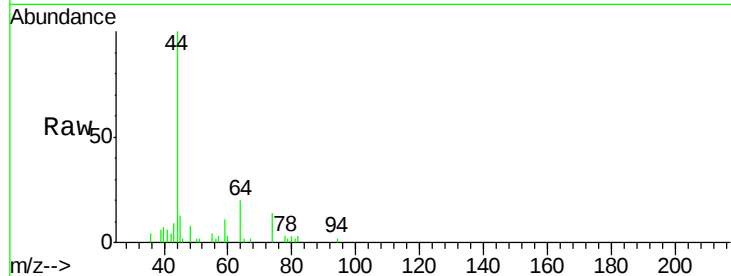
PB111123ZHE#16

Tot Ion: 74 Resp: 490

Ion Ratio Lower Upper

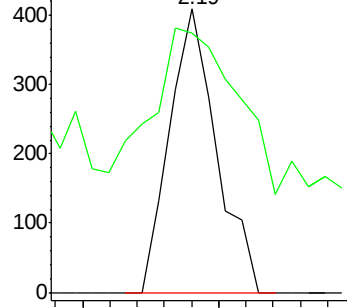
74 100

45 101.2 53.1 159.4

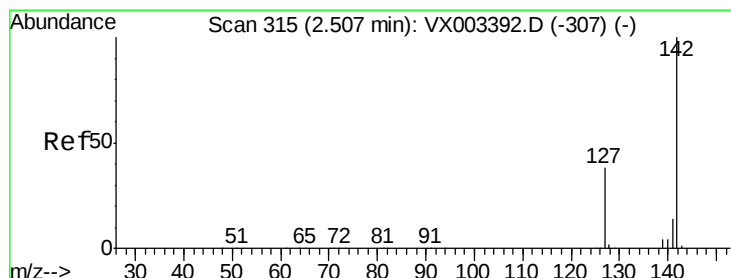
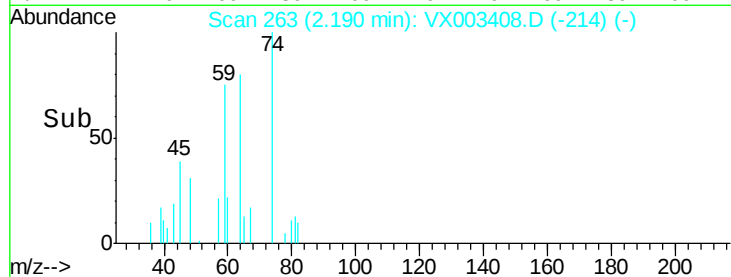


Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



Time-->



#10

Methyl Iodide

Concen: 0.54 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003408.D

Acq: 16 Jul 2018 23:41

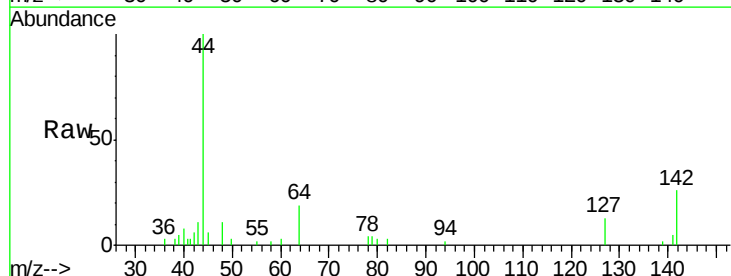
Tgt Ion: 142 Resp: 1702

Ion Ratio Lower Upper

142 100

127 41.2 36.6 55.0

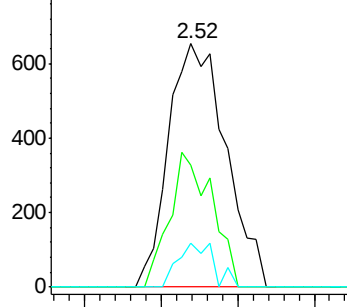
141 11.2 11.3 16.9#



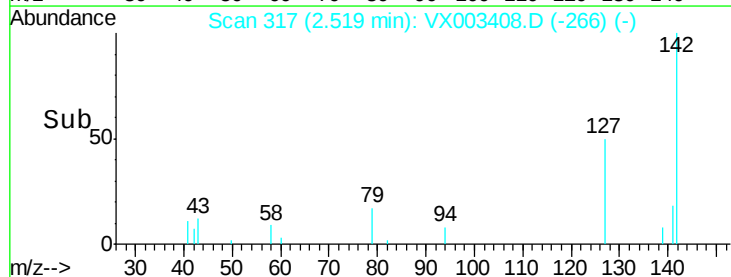
Abundance Ion 141.80 (141.50 to 142.50): V

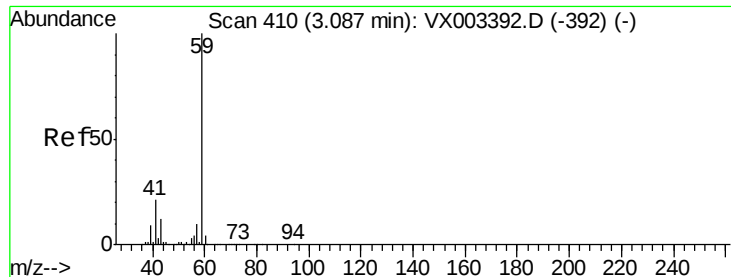
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->



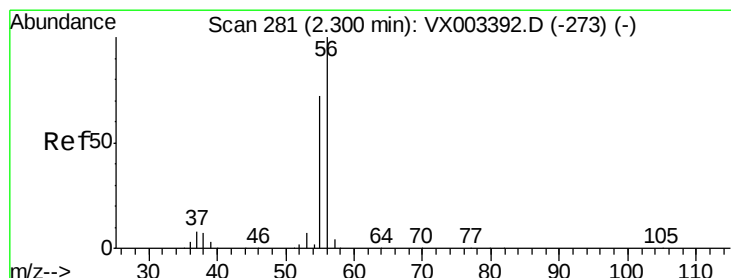
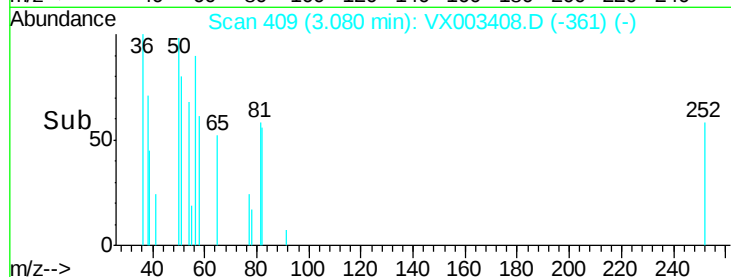
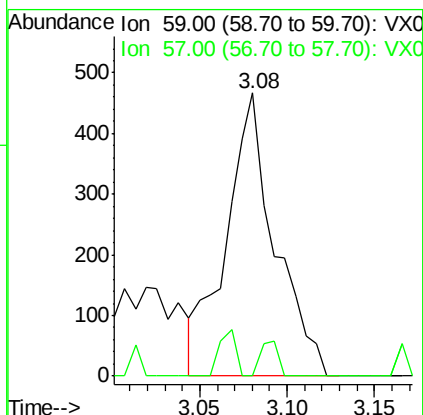
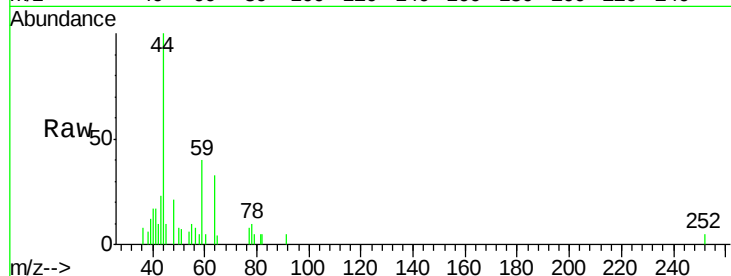


#11

Tert butyl alcohol
 Concen: 1.16 ug/l
 RT: 3.08 min Scan# 409
 Delta R.T. -0.01 min
 Lab File: VX003408.D
 Acq: 16 Jul 2018 23:41

Instrument :
 MSVOA_X
 ClientSampleId :
 PB111123ZHE#16

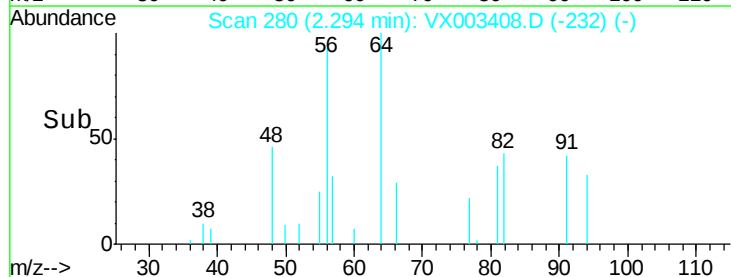
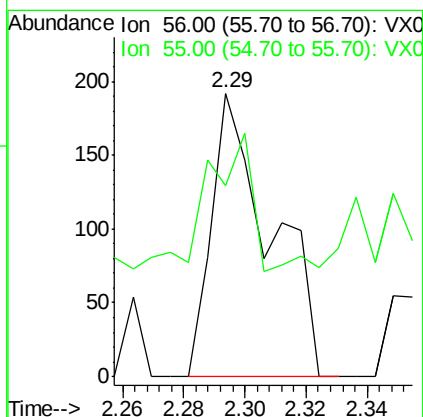
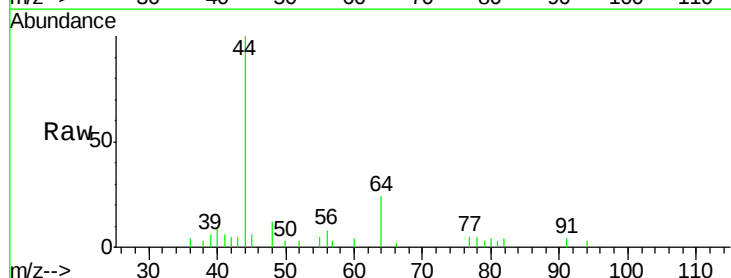
Tot Ion: 59 Resp: 905
 Ion Ratio Lower Upper
 59 100
 57 4.5 8.2 12.2#

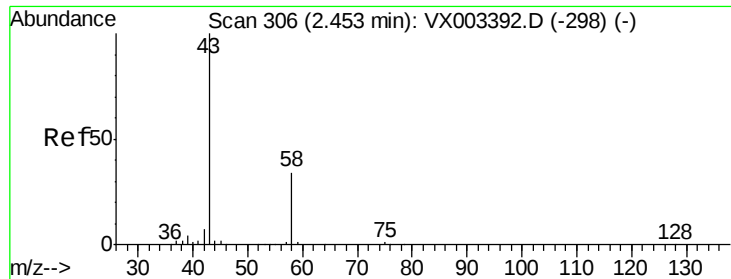


#13

Acrolein
 Concen: 0.68 ug/l
 RT: 2.29 min Scan# 280
 Delta R.T. -0.01 min
 Lab File: VX003408.D
 Acq: 16 Jul 2018 23:41

Tgt Ion: 56 Resp: 257
 Ion Ratio Lower Upper
 56 100
 55 64.2 57.0 85.4





#16

Acetone

Concen: 20.39 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX003408.D

Acq: 16 Jul 2018 23:41

Instrument :

MSVOA_X

ClientSampleId :

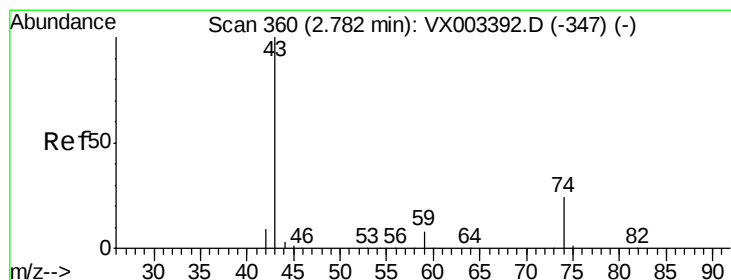
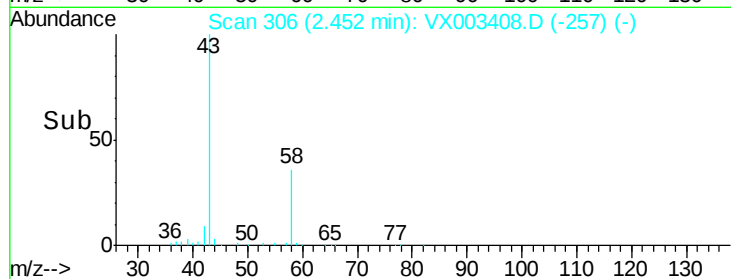
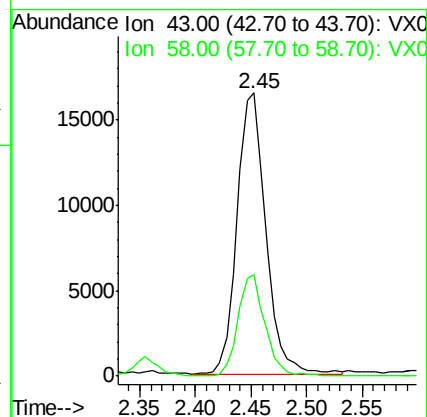
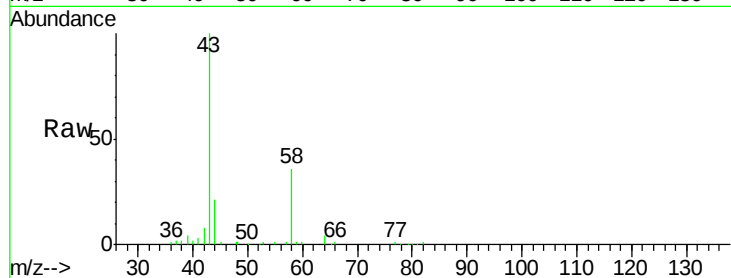
PB111123ZHE#16

Tot Ion: 43 Resp: 29527

Ion Ratio Lower Upper

43 100

58 36.0 22.1 33.1#



#18

Methyl Acetate

Concen: 2.41 ug/l

RT: 2.78 min Scan# 360

Delta R.T. -0.00 min

Lab File: VX003408.D

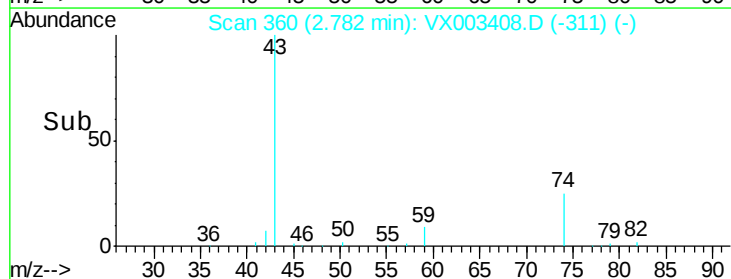
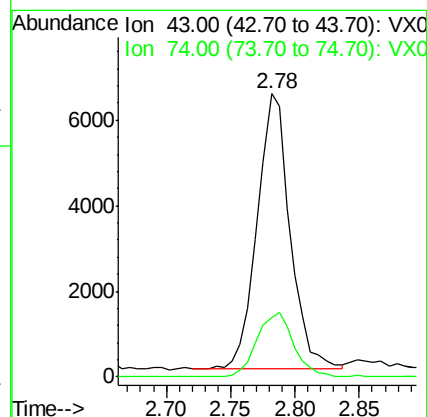
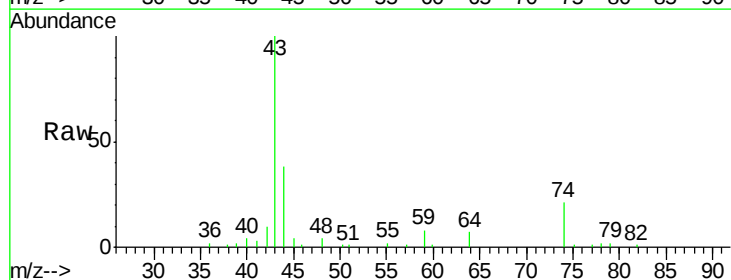
Acq: 16 Jul 2018 23:41

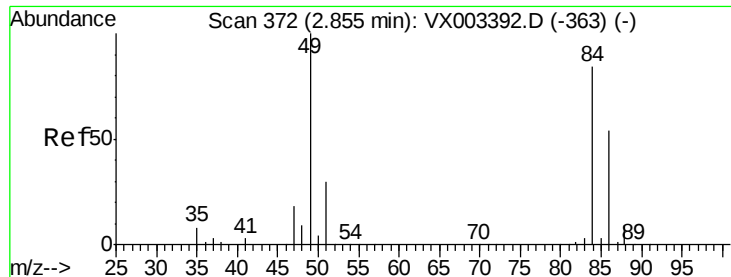
Tgt Ion: 43 Resp: 11360

Ion Ratio Lower Upper

43 100

74 26.0 16.7 25.1#

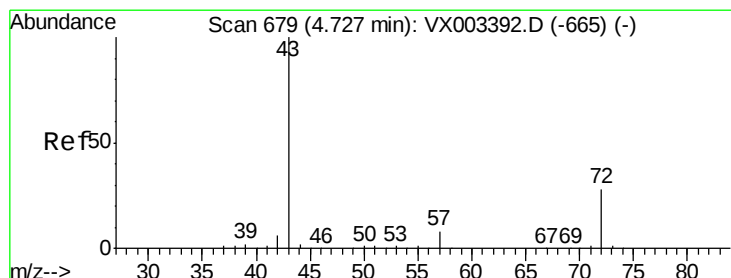
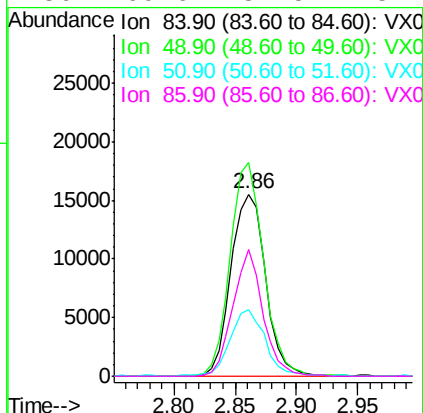
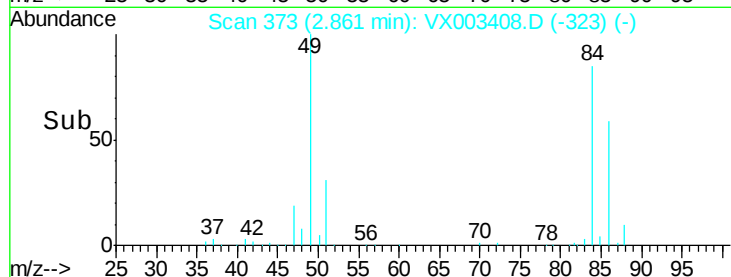
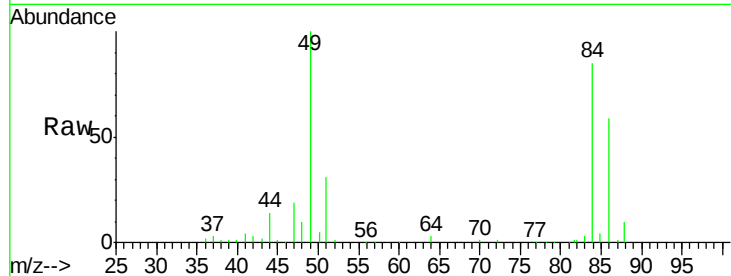




#20
Methvlene Chloride
Concen: 9.08 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX003408.D
Acq: 16 Jul 2018 23:41

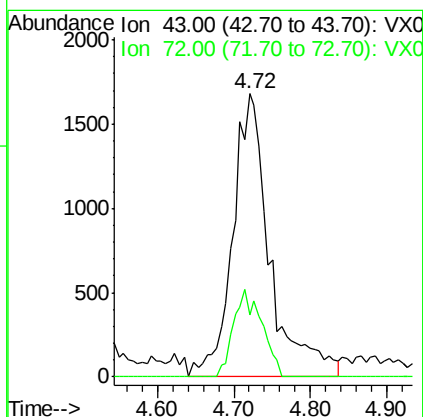
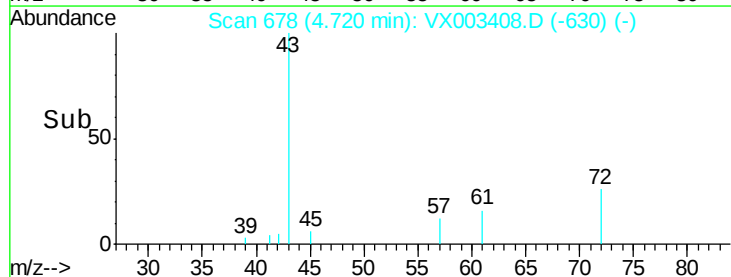
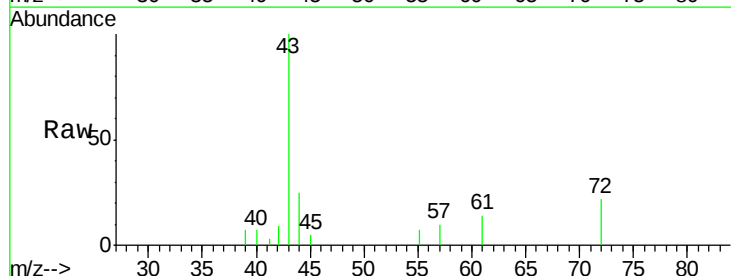
Instrument :
MSVOA_X
ClientSampleId :
PB111123ZHE#16

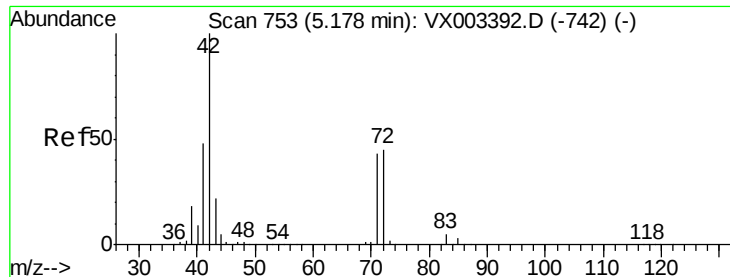
Tot Ion: 84 Resp: 30531
Ion Ratio Lower Upper
84 100
49 117.4 107.8 161.6
51 35.9 32.8 49.2
86 69.6 52.5 78.7



#25
2-Butanone
Concen: 2.51 ug/l
RT: 4.72 min Scan# 678
Delta R.T. -0.01 min
Lab File: VX003408.D
Acq: 16 Jul 2018 23:41

Tgt Ion: 43 Resp: 5689
Ion Ratio Lower Upper
43 100
72 22.0 18.5 27.7





#29

Tetrahydrofuran

Concen: 0.94 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.01 min

Lab File: VX003408.D

Acq: 16 Jul 2018 23:41

Instrument :

MSVOA_X

ClientSampleId :

PB111123ZHE#16

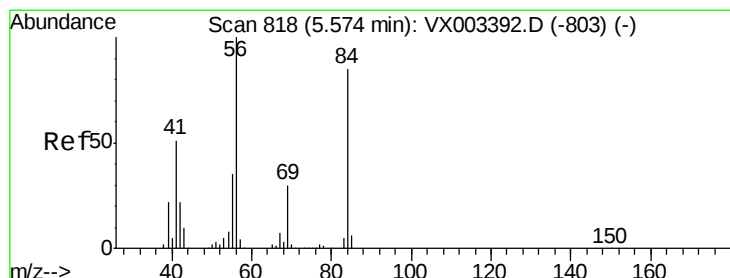
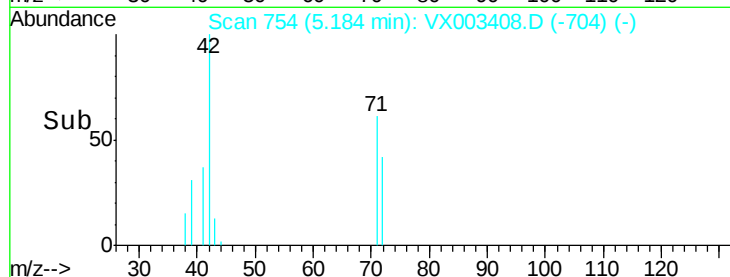
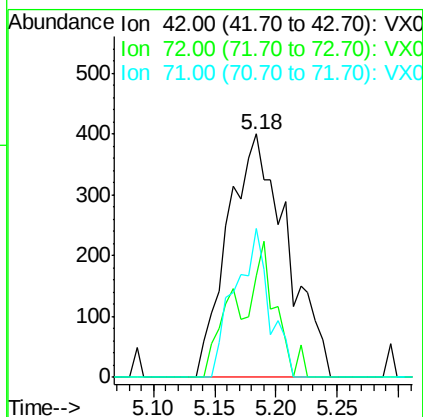
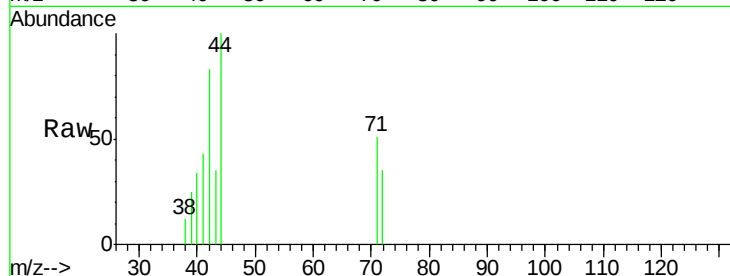
Tot Ion: 42 Resp: 1345

Ion Ratio Lower Upper

42 100

72 22.6 32.0 48.0#

71 35.7 30.1 45.1



#31

Cyclohexane

Concen: 1.02 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX003408.D

Acq: 16 Jul 2018 23:41

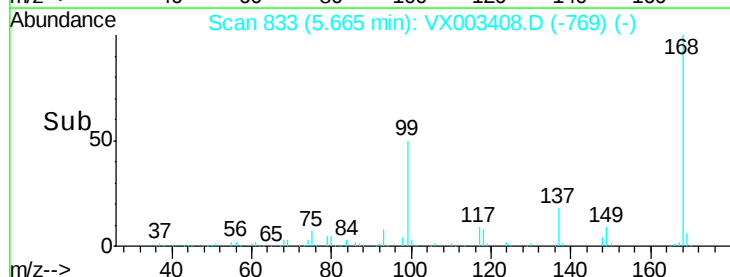
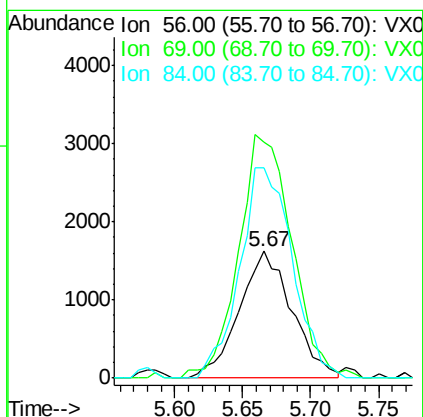
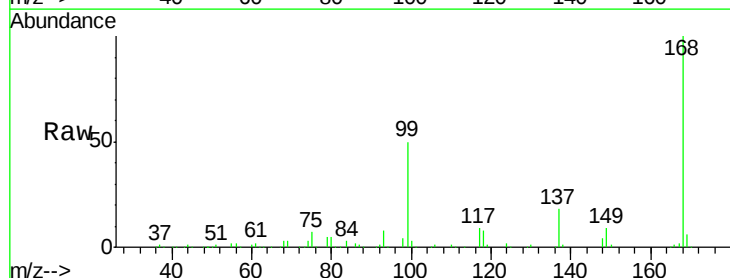
Tgt Ion: 56 Resp: 4397

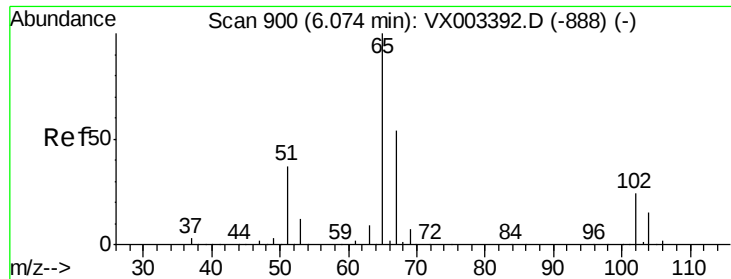
Ion Ratio Lower Upper

56 100

69 182.0 23.7 35.5#

84 165.5 64.1 96.1#

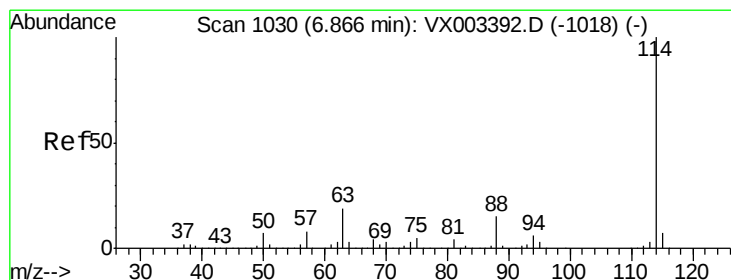
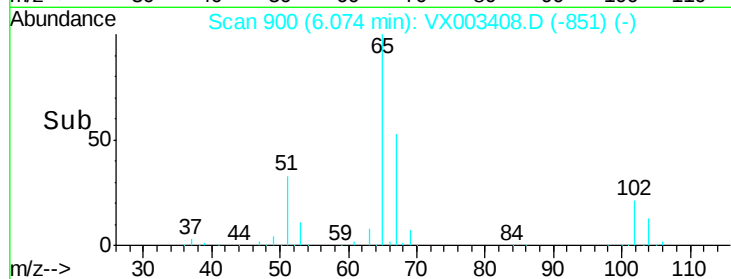
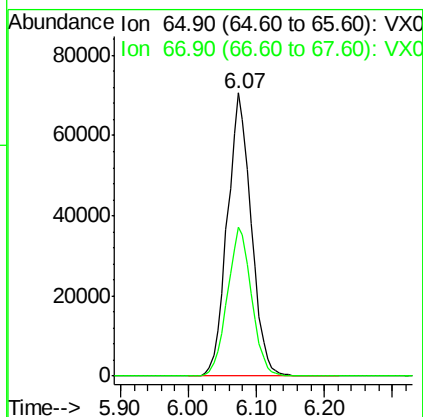
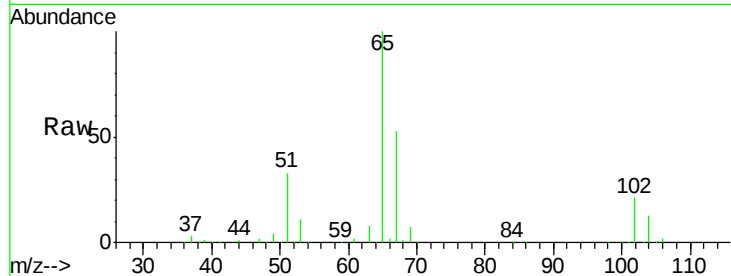




#33
 1,2-Dichloroethane-d4
 Concen: 49.35 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: VX003408.D
 Acq: 16 Jul 2018 23:41

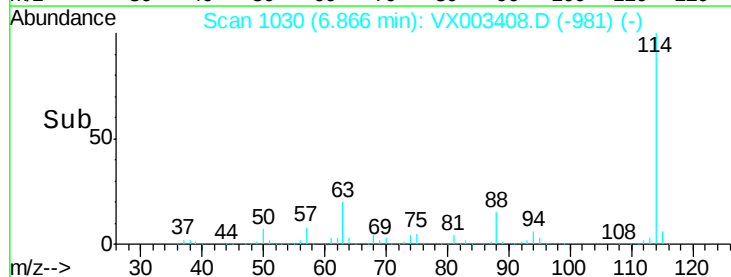
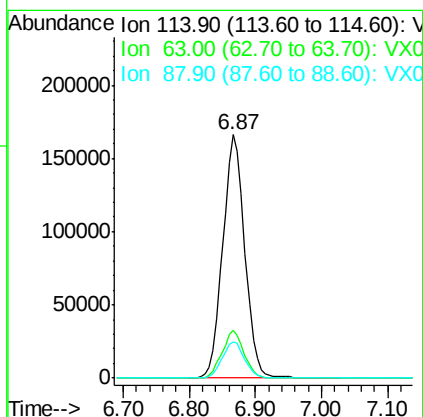
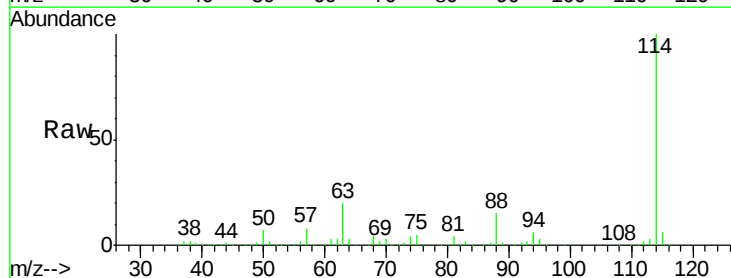
Instrument :
 MSVOA_X
 ClientSampleId :
 PB111123ZHE#16

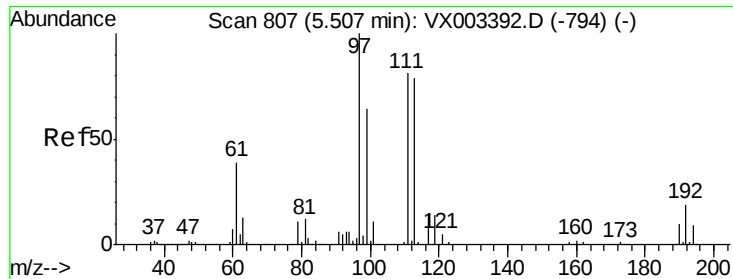
Tot Ion: 65 Resp: 171854
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX003408.D
 Acq: 16 Jul 2018 23:41

Tgt Ion: 114 Resp: 383301
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 41.4
 88 14.7 0.0 30.0





#35

Dibromofluoromethane

Concen: 48.73 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX003408.D

Acq: 16 Jul 2018 23:41

Instrument :

MSVOA_X

ClientSampleId :

PB111123ZHE#16

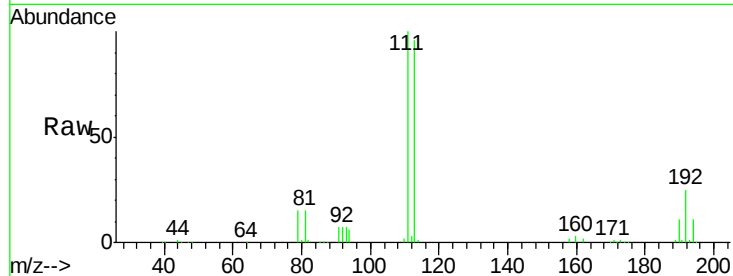
Tot Ion:113 Resp: 151131

Ion Ratio Lower Upper

113 100

111 101.6 81.4 122.0

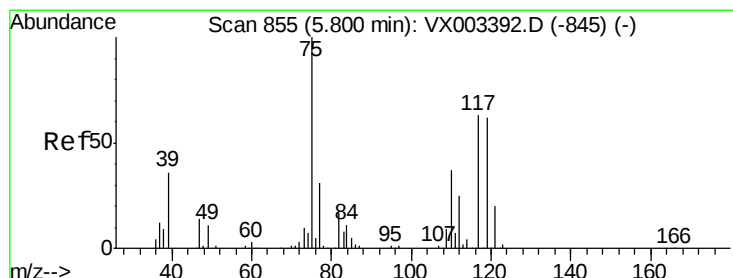
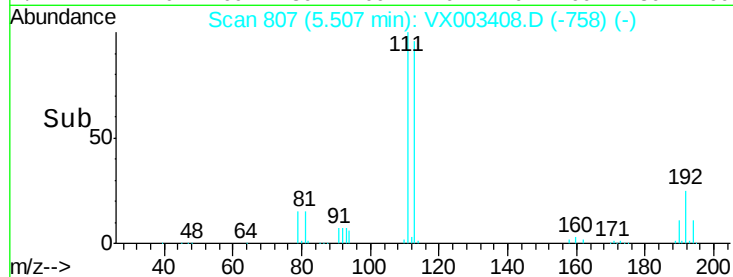
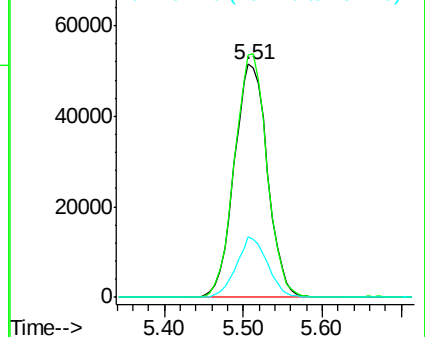
192 24.2 19.1 28.7



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: 4.41 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX003408.D

Acq: 16 Jul 2018 23:41

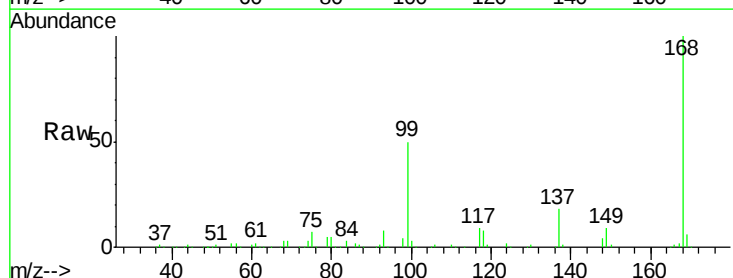
Tgt Ion: 75 Resp: 17110

Ion Ratio Lower Upper

75 100

110 8.7 18.1 54.4#

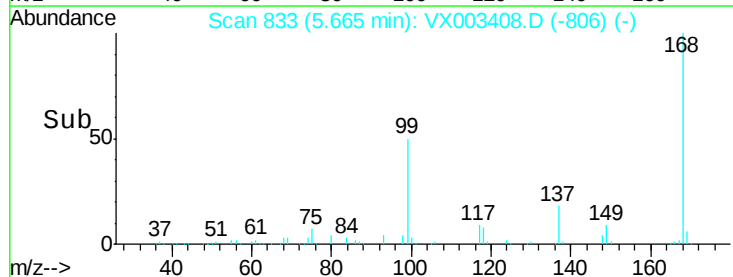
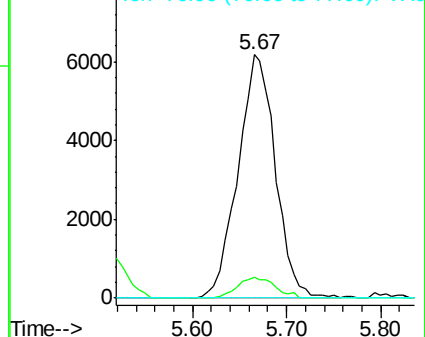
77 0.0 24.3 36.5#

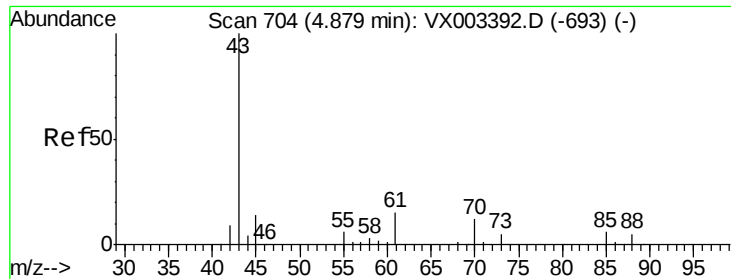


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

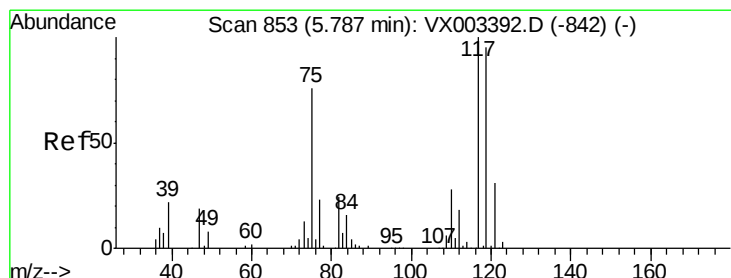
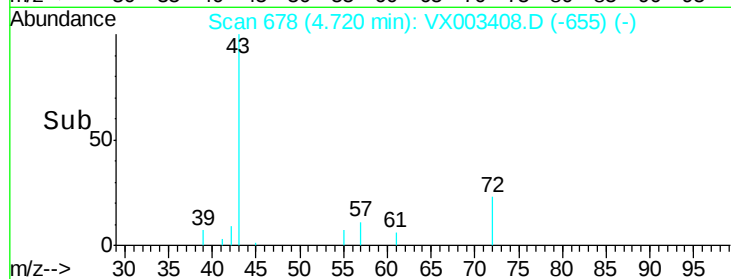
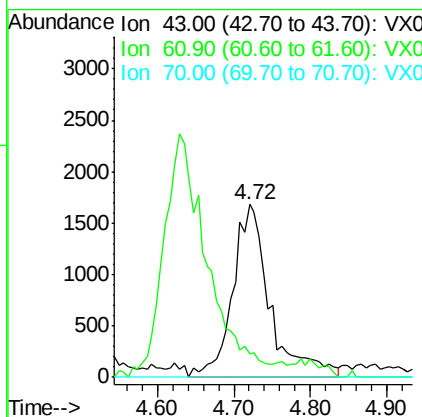
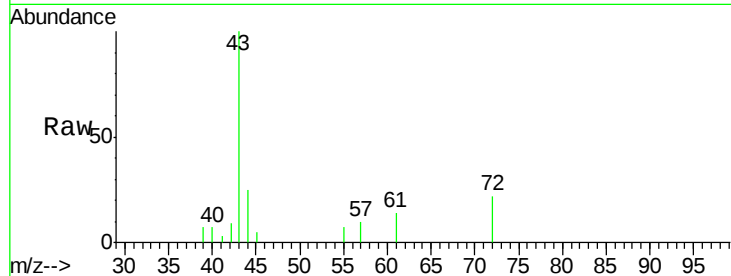




#37
Ethyl Acetate
Concen: 1.30 ug/l
RT: 4.72 min Scan# 678
Delta R.T. -0.16 min
Lab File: VX003408.D
Acq: 16 Jul 2018 23:41

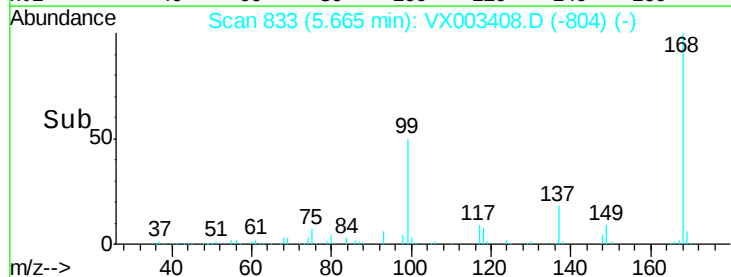
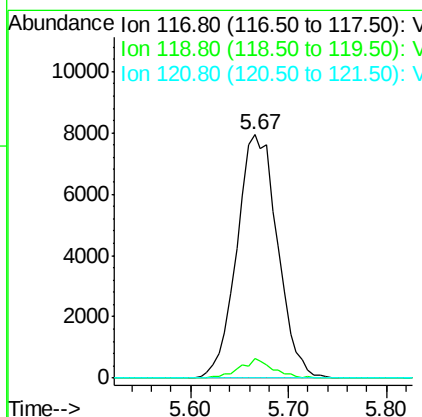
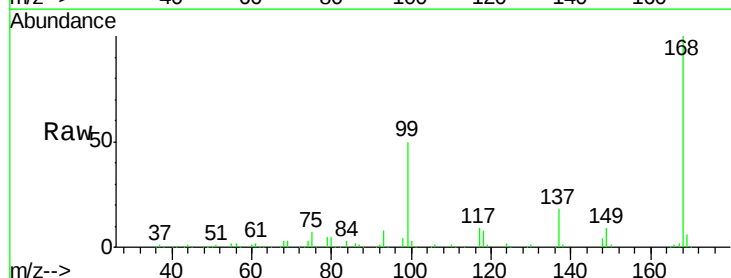
Instrument :
MSVOA_X
ClientSampleId :
PB111123ZHE#16

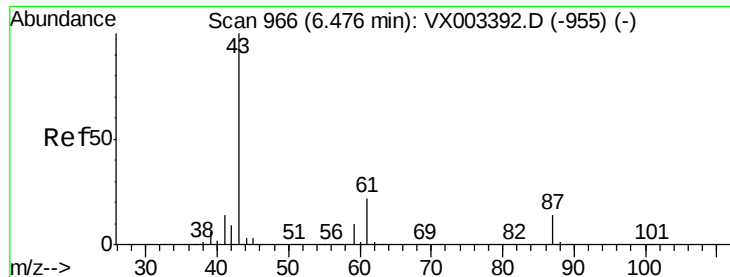
Tot Ion: 43 Resp: 5689
Ion Ratio Lower Upper
43 100
61 0.0 10.4 15.6#
70 0.0 7.6 11.4#



#38
Carbon Tetrachloride
Concen: 5.79 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.12 min
Lab File: VX003408.D
Acq: 16 Jul 2018 23:41

Tgt Ion: 117 Resp: 22869
Ion Ratio Lower Upper
117 100
119 8.0 77.4 116.0#
121 0.0 24.4 36.6#



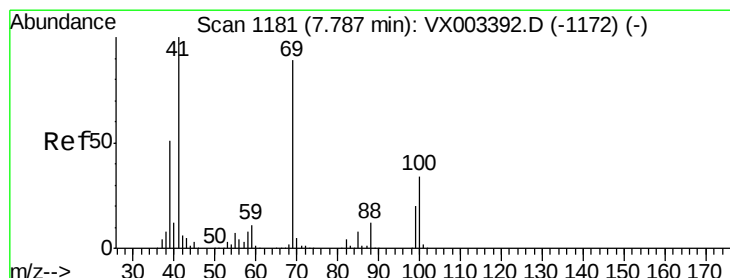
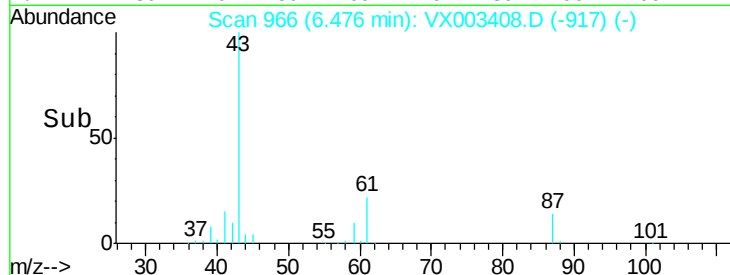
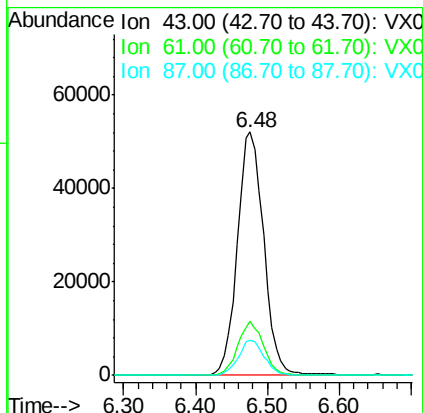
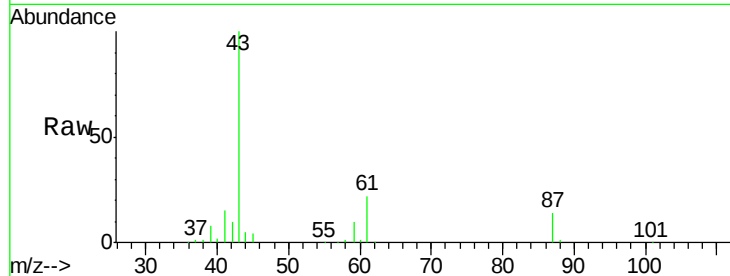


#43

Isopropyl Acetate
 Concen: 20.04 ug/l
 RT: 6.48 min Scan# 966
 Delta R.T. -0.00 min
 Lab File: VX003408.D
 Acq: 16 Jul 2018 23:41

Instrument :
 MSVOA_X
 ClientSampleId :
 PB111123ZHE#16

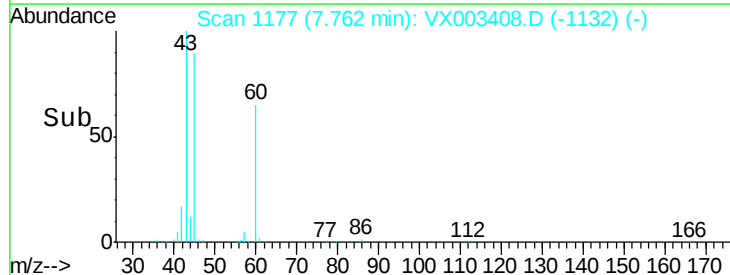
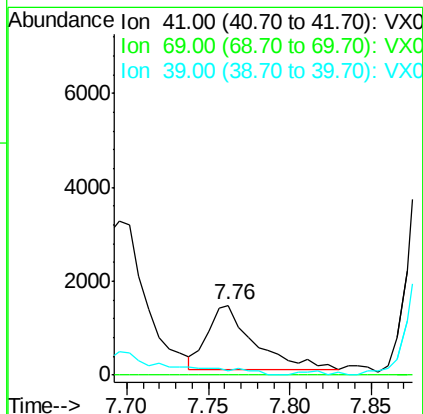
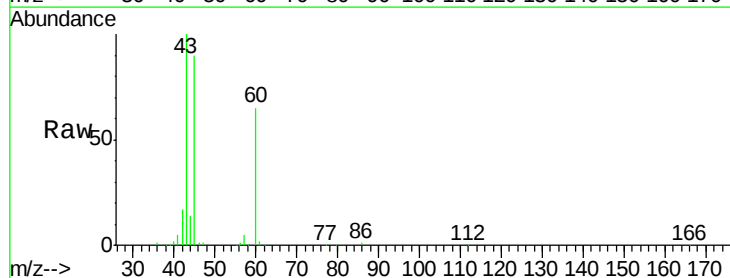
Tot Ion	43	Resp	132307
Ion Ratio	Lower	Upper	
43	100		
61	21.5	14.4	21.6
87	14.0	9.5	14.3

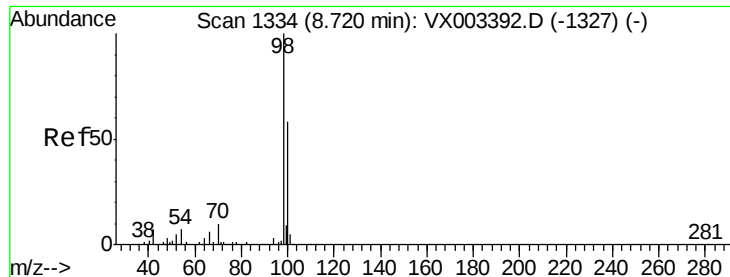


#48

Methyl methacrylate
 Concen: 0.82 ug/l
 RT: 7.76 min Scan# 1177
 Delta R.T. -0.02 min
 Lab File: VX003408.D
 Acq: 16 Jul 2018 23:41

Tgt Ion	41	Resp	2746
Ion Ratio	Lower	Upper	
41	100		
69	0.0	59.1	88.7#
39	0.0	48.9	73.3#

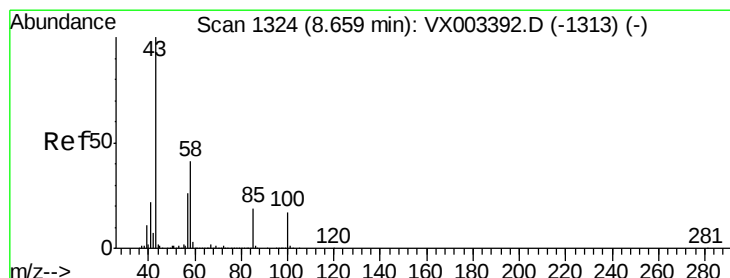
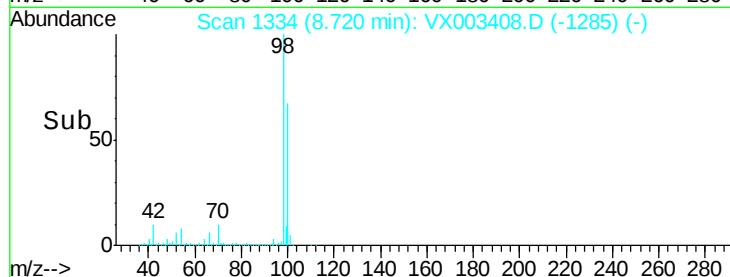
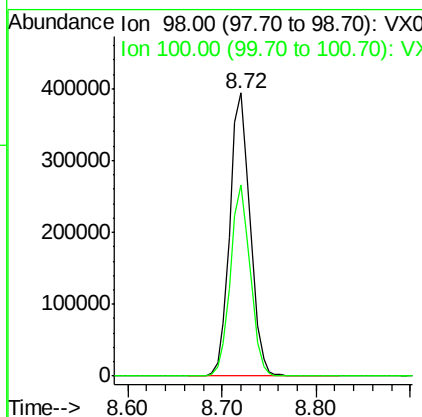
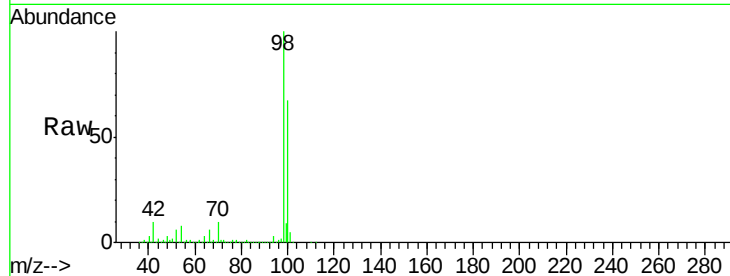




#50
Toluene-d8
Concen: 51.63 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX003408.D
Acq: 16 Jul 2018 23:41

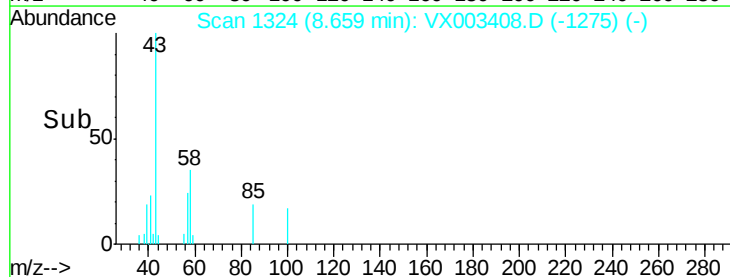
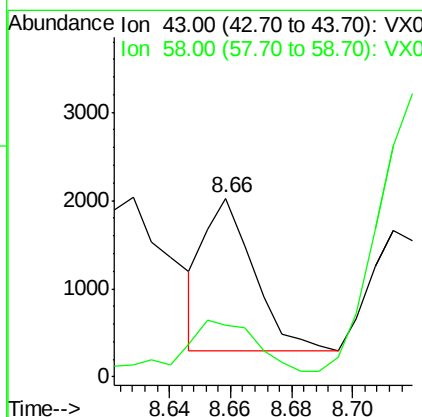
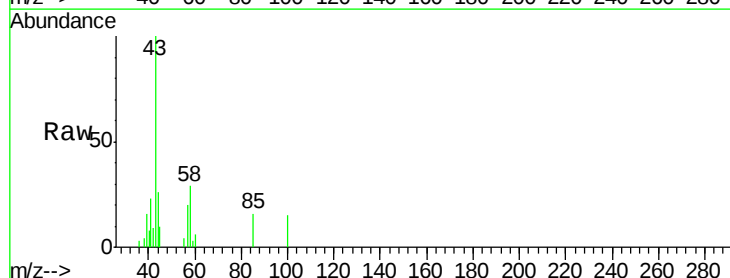
Instrument :
MSVOA_X
ClientSampleId :
PB111123ZHE#16

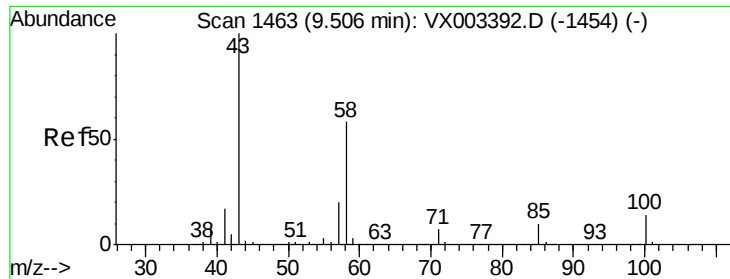
Tot Ion: 98 Resp: 590887
Ion Ratio Lower Upper
98 100
100 65.9 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 0.44 ug/l
RT: 8.66 min Scan# 1324
Delta R.T. -0.00 min
Lab File: VX003408.D
Acq: 16 Jul 2018 23:41

Tgt Ion: 43 Resp: 1932
Ion Ratio Lower Upper
43 100
58 66.7 28.6 42.8#

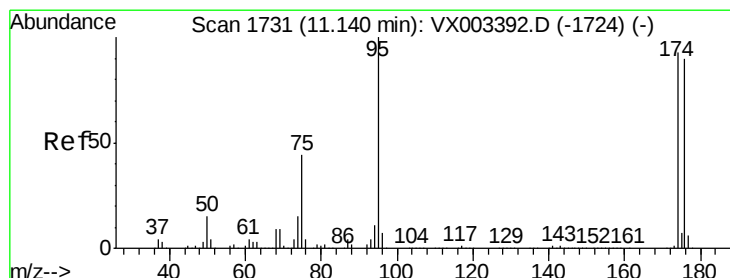
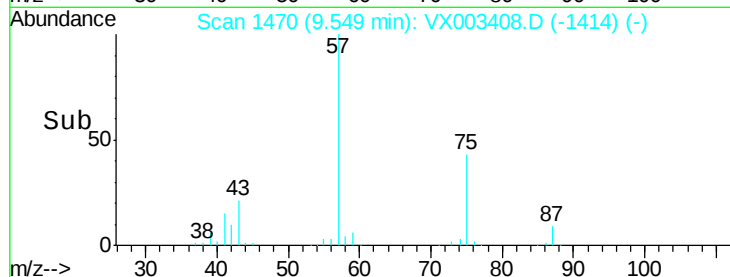
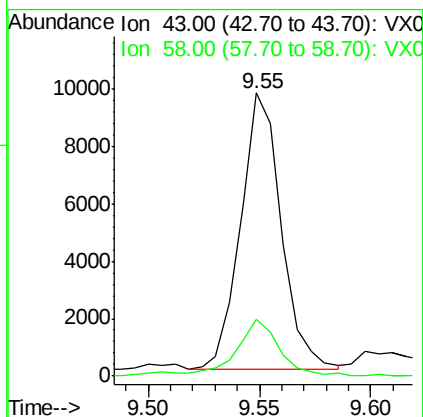
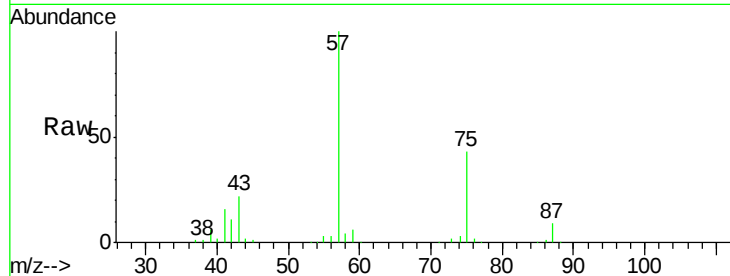




#59
2-Hexanone
Concen: 3.66 ug/l
RT: 9.55 min Scan# 1470
Delta R.T. 0.04 min
Lab File: VX003408.D
Acq: 16 Jul 2018 23:41

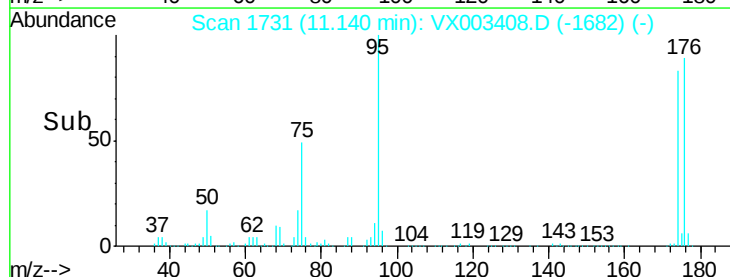
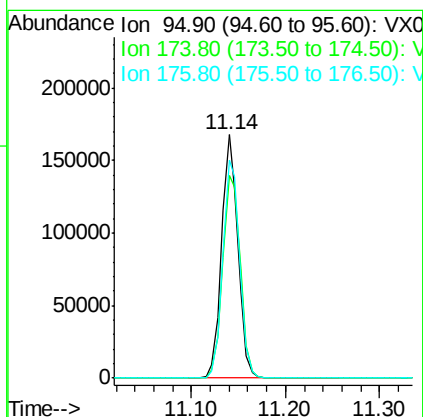
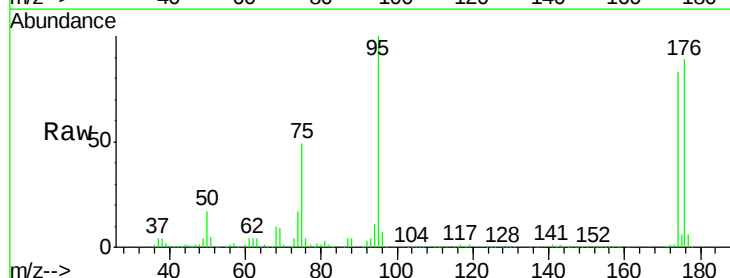
Instrument :
MSVOA_X
ClientSampleId :
PB111123ZHE#16

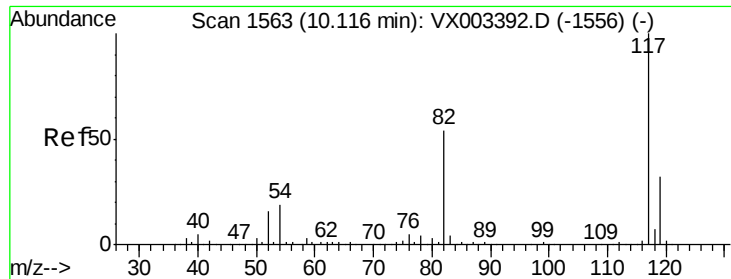
Tot Ion: 43 Resp: 12222
Ion Ratio Lower Upper
43 100
58 21.4 24.6 73.6#



#62
4-Bromofluorobenzene
Concen: 49.04 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX003408.D
Acq: 16 Jul 2018 23:41

Tgt Ion: 95 Resp: 200399
Ion Ratio Lower Upper
95 100
174 90.4 0.0 187.4
176 92.6 0.0 181.0

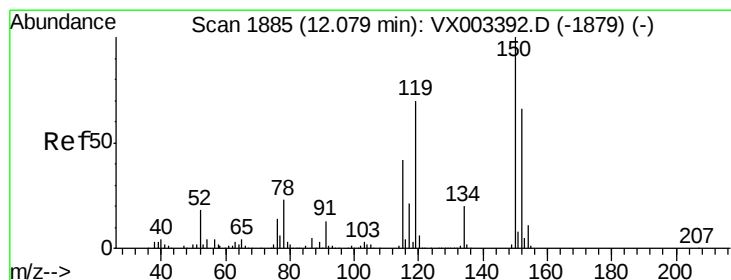
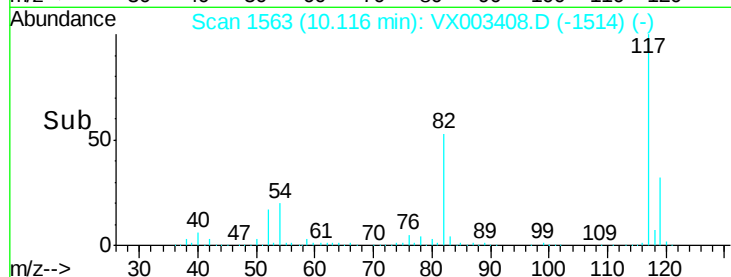
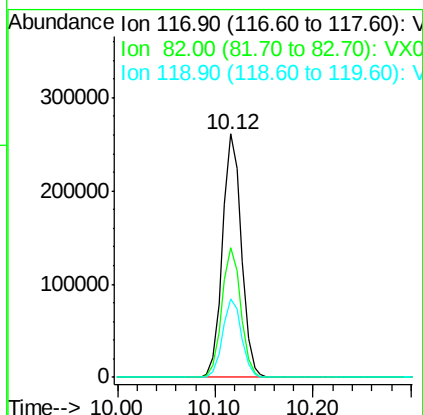
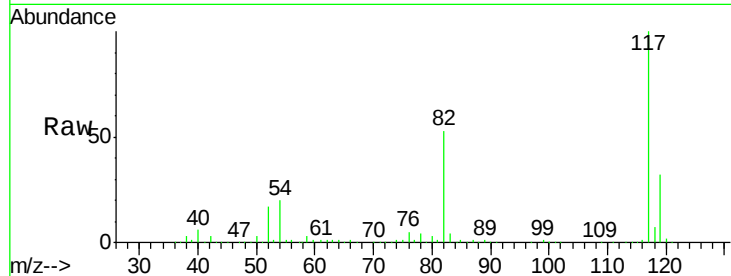




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX003408.D
Acq: 16 Jul 2018 23:41

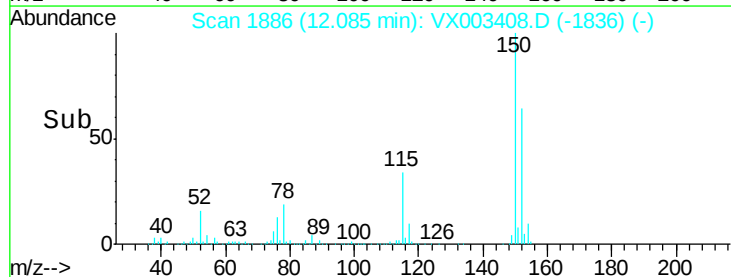
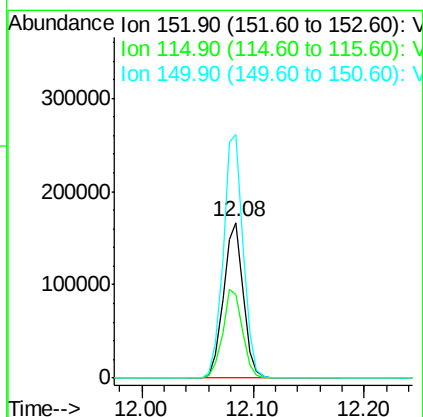
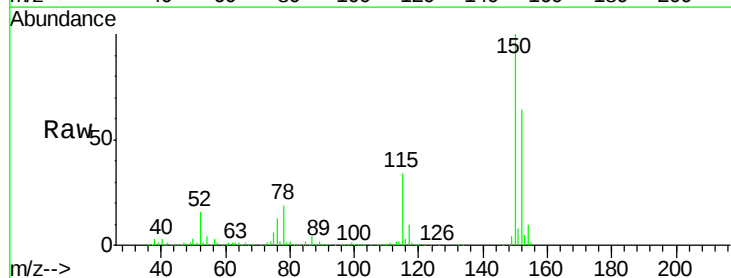
Instrument :
MSVOA_X
ClientSampleId :
PB111123ZHE#16

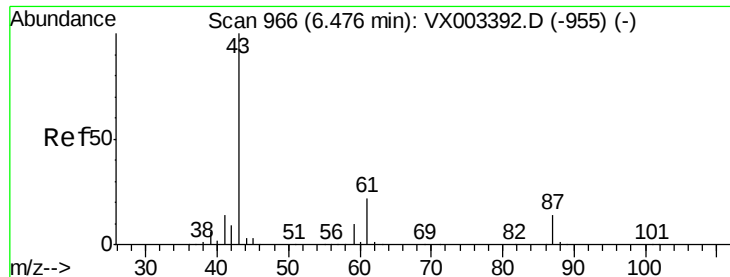
Tot Ion:117 Resp: 350208
Ion Ratio Lower Upper
117 100
82 53.4 45.0 67.4
119 32.5 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1886
Delta R.T. 0.01 min
Lab File: VX003408.D
Acq: 16 Jul 2018 23:41

Tgt Ion:152 Resp: 203502
Ion Ratio Lower Upper
152 100
115 56.7 40.1 120.2
150 158.5 0.0 347.2





#74

N-amyl acetate

Concen: 21.11 ug/l

RT: 6.48 min Scan# 966

Delta R.T. -0.00 min

Lab File: VX003408.D

Acq: 16 Jul 2018 23:41

Instrument :

MSVOA_X

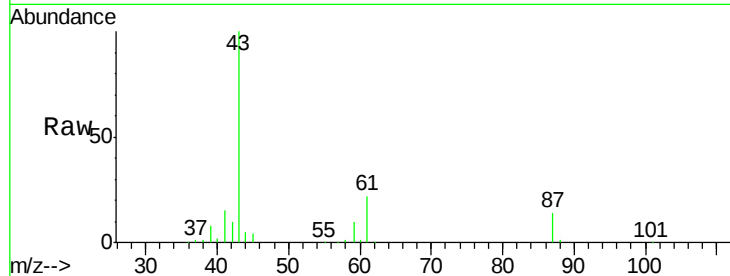
ClientSampleId :

PB111123ZHE#16

Tot Ion: 43 Resp: 132307

Ion Ratio Lower Upper

43	100		
70	0.0	0.0	0.0
55	0.0	0.0	0.0#
61	21.5	14.4	21.6

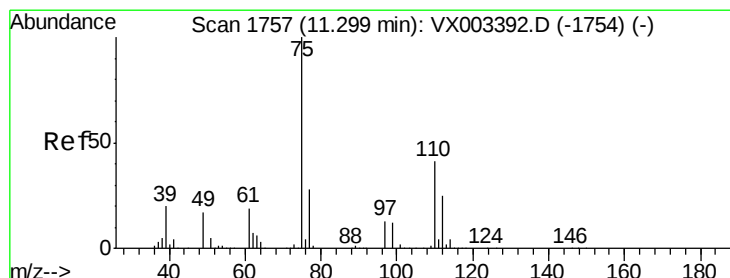
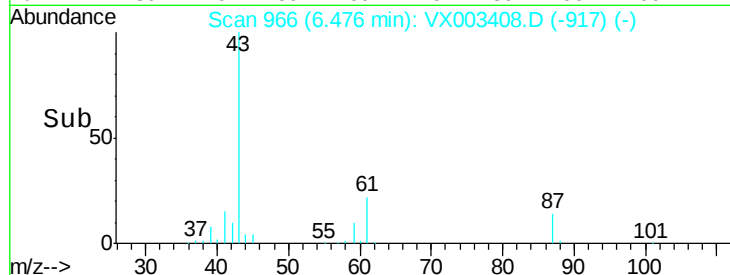
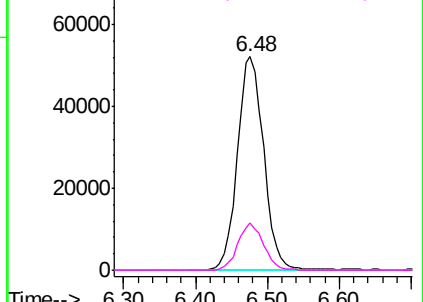


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 26.06 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

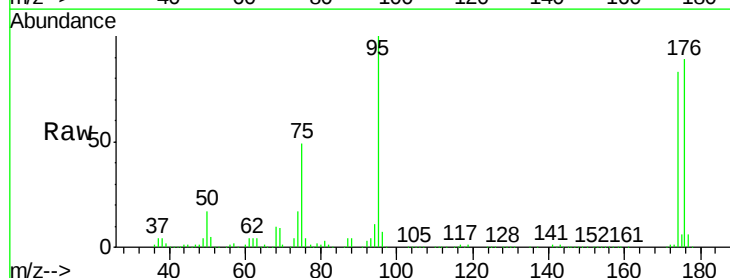
Lab File: VX003408.D

Acq: 16 Jul 2018 23:41

Tgt Ion: 75 Resp: 96010

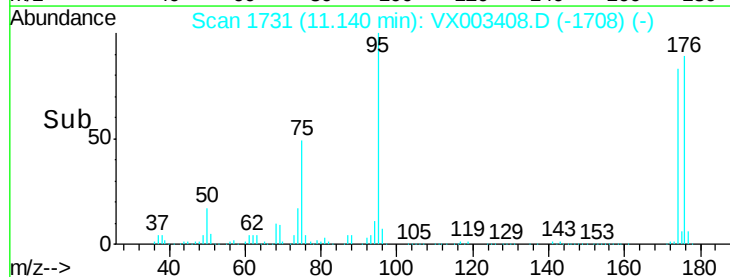
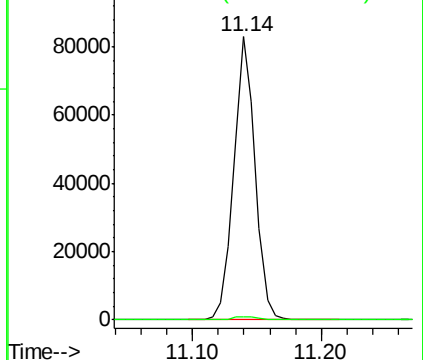
Ion Ratio Lower Upper

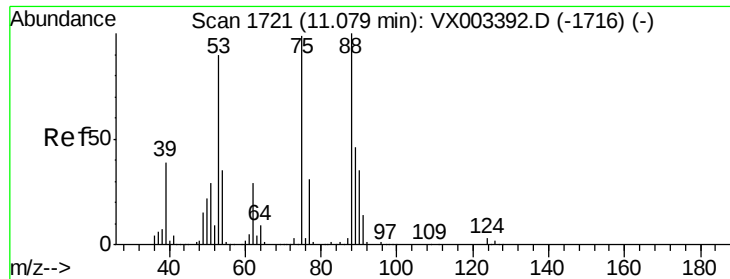
75	100		
77	1.5	22.8	68.3#



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: 84.66 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003408.D

Acq: 16 Jul 2018 23:41

Instrument :

MSVOA_X

ClientSampleId :

PB111123ZHE#16

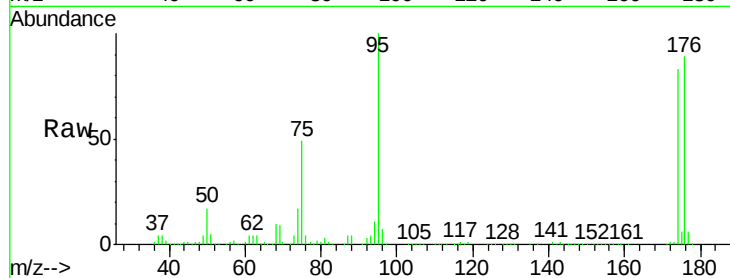
Tot Ion: 75 Resp: 96010

Ion Ratio Lower Upper

75 100

53 0.3 86.8 130.2#

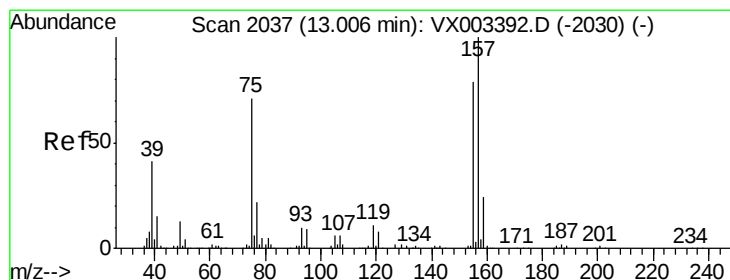
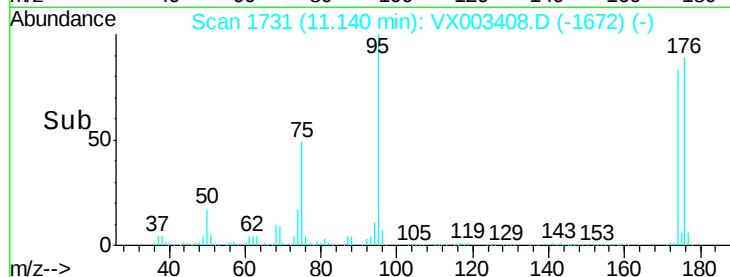
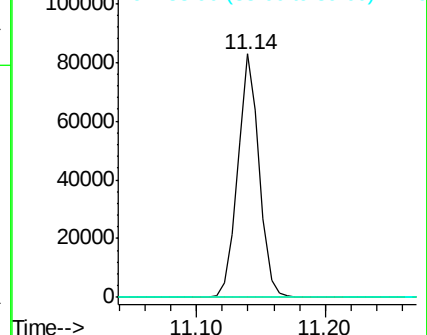
89 0.0 38.2 57.2#



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: 0.35 ug/l

RT: 12.98 min Scan# 2033

Delta R.T. -0.02 min

Lab File: VX003408.D

Acq: 16 Jul 2018 23:41

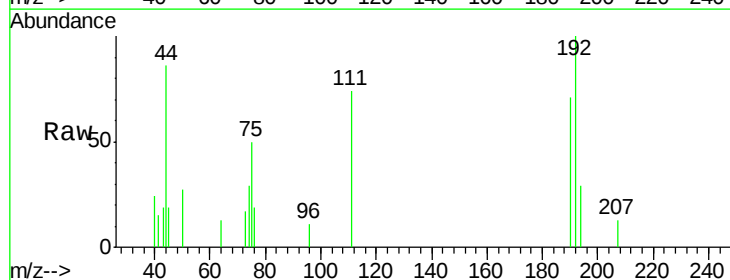
Tgt Ion: 75 Resp: 309

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

