

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX080719\
 Data File : VX011361.D
 Acq On : 07 Aug 2019 14:18
 Operator : JC/SP
 Sample : K4192-05
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TRIPLE-BARREL-BC-EAST

Quant Time: Aug 08 07:03:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 02 01:55:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	203853	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	295650	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	267701	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	119133	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	104269	50.79	ug/l	0.00
Spiked Amount			Recovery	=	101.58%	
35) Dibromofluoromethane	5.49	113	88977	46.10	ug/l	0.00
Spiked Amount			Recovery	=	92.20%	
50) Toluene-d8	8.71	98	352792	48.42	ug/l	0.00
Spiked Amount			Recovery	=	96.84%	
62) 4-Bromofluorobenzene	11.13	95	115314	44.33	ug/l	0.00
Spiked Amount			Recovery	=	88.66%	

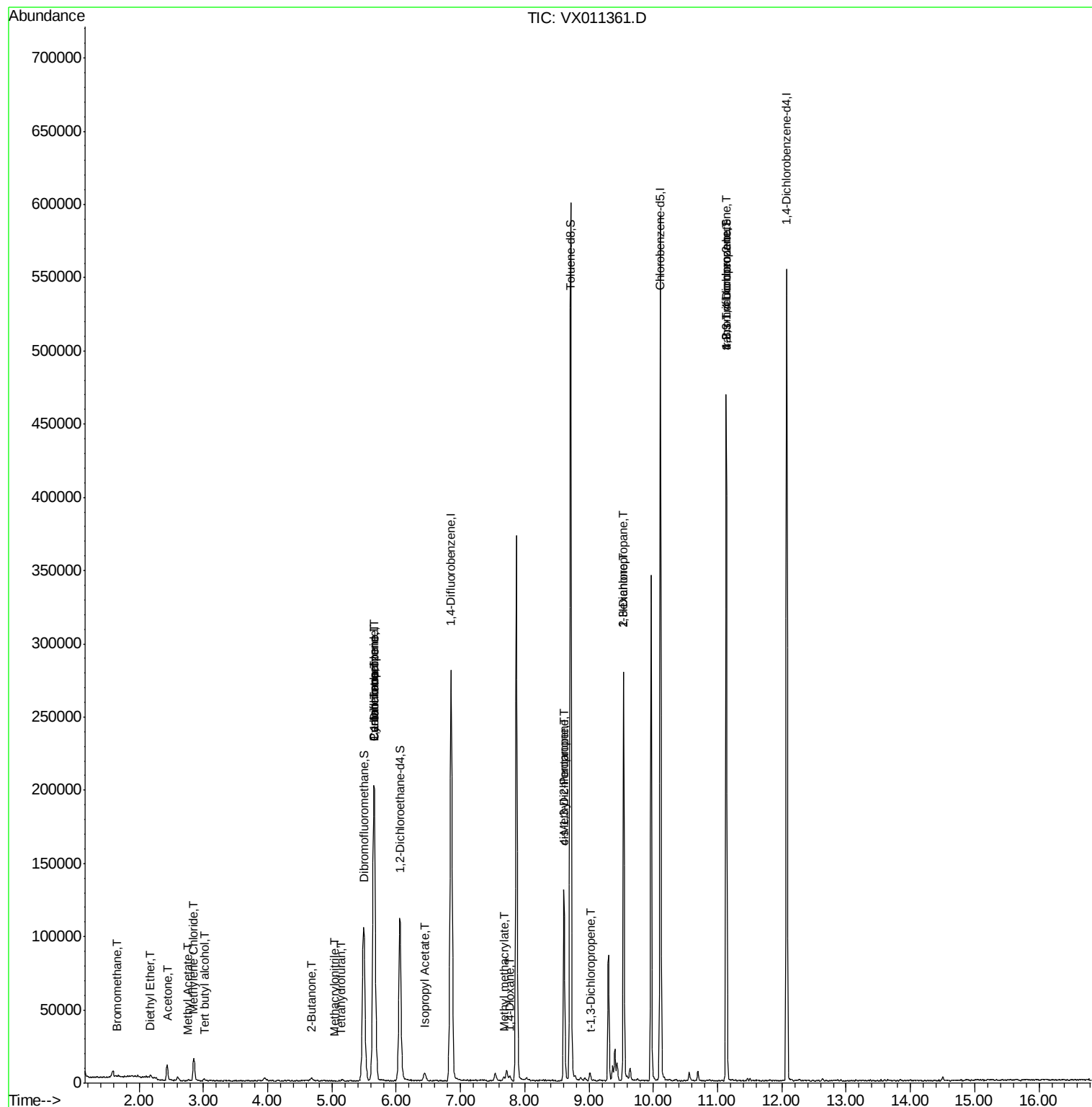
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.66	94	392	0.283	ug/l #	70
6) Chloroethane	1.64	64	162	Below Cal	#	43
8) Diethyl Ether	2.18	74	578	0.468	ug/l	57
11) Tert butyl alcohol	3.02	59	879	2.170	ug/l #	85
16) Acetone	2.43	43	10914	11.169	ug/l	96
18) Methyl Acetate	2.76	43	1083	0.485	ug/l	90
20) Methylene Chloride	2.85	84	7478	3.494	ug/l	92
25) 2-Butanone	4.68	43	1178	0.847	ug/l #	83
29) Tetrahydrofuran	5.14	42	491	0.576	ug/l #	90
31) Cyclohexane	5.65	56	4061	1.536	ug/l #	14
36) 1,1-Dichloropropene	5.65	75	13405	5.193	ug/l #	49
38) Carbon Tetrachloride	5.65	117	18475	7.114	ug/l #	15
41) Methacrylonitrile	5.04	41	284	0.201	ug/l #	45
43) Isopropyl Acetate	6.45	43	7328	1.770	ug/l	94
48) Methyl methacrylate	7.68	41	3613	1.855	ug/l #	10
49) 1,4-Dioxane	7.76	88	23	0.407	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	41751	15.628	ug/l #	48
53) t-1,3-Dichloropropene	9.04	75	69	2.861	ug/l #	24
54) cis-1,3-Dichloropropene	8.61	75	20989	7.287	ug/l #	65
57) 1,3-Dichloropropane	9.54	76	2684	0.810	ug/l #	41
59) 2-Hexanone	9.54	43	31862	15.398	ug/l #	52
76) 1,2,3-Trichloropropane	11.13	75	56859	26.208	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	56859	68.172	ug/l #	10

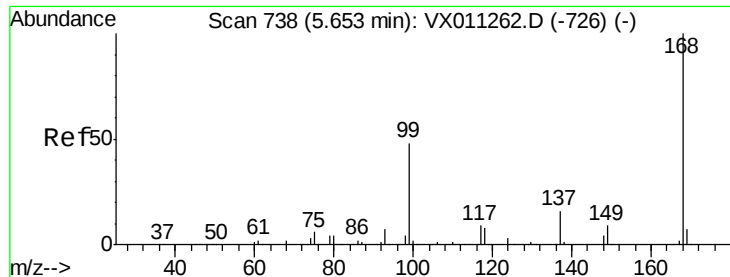
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 02 01:55:00 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.00 min

Lab File: VX011361.D

Acq: 07 Aug 2019 14:18

Instrument :

MSVOA_X

ClientSampleId :

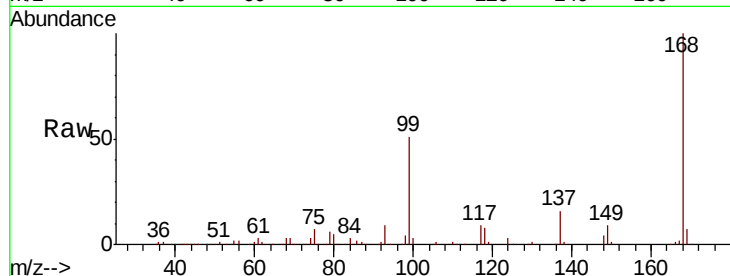
TRIPLE-BARREL-BC-EAST

Tgt Ion:168 Resp: 203853

Ion Ratio Lower Upper

168 100

99 50.8 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

80000

60000

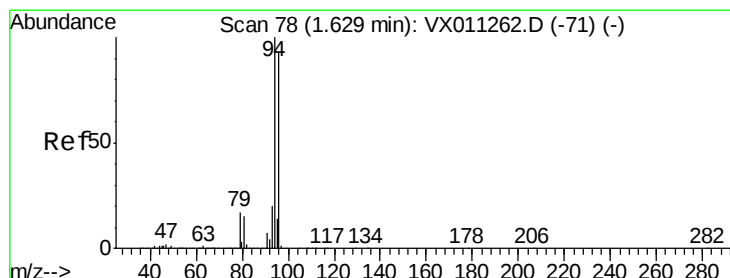
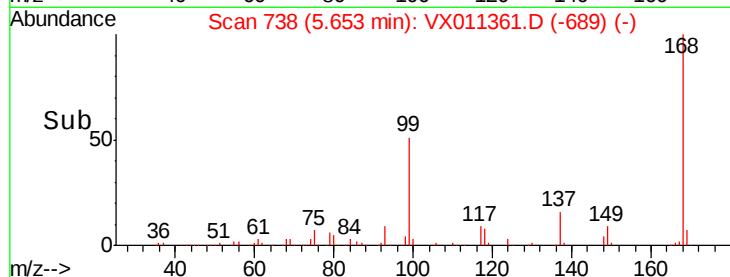
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.283 ug/l

RT: 1.66 min Scan# 83

Delta R.T. 0.03 min

Lab File: VX011361.D

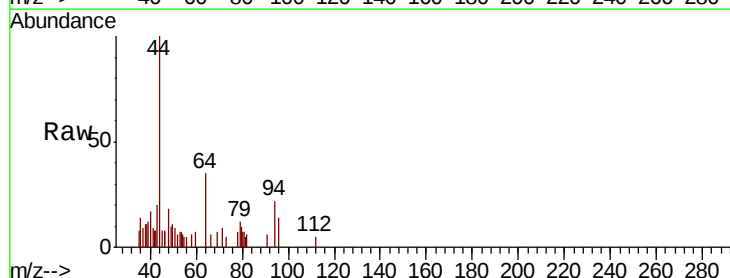
Acq: 07 Aug 2019 14:18

Tgt Ion: 94 Resp: 392

Ion Ratio Lower Upper

94 100

96 64.7 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.66

250

200

150

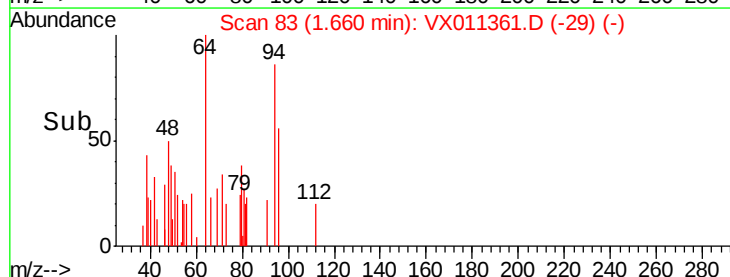
100

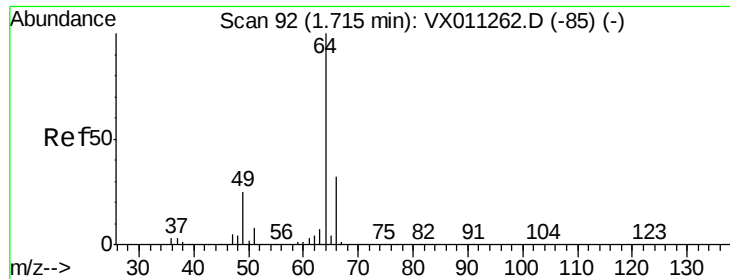
50

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. -0.07 min

Lab File: VX011361.D

Acq: 07 Aug 2019 14:18

Instrument :

MSVOA_X

ClientSampleId :

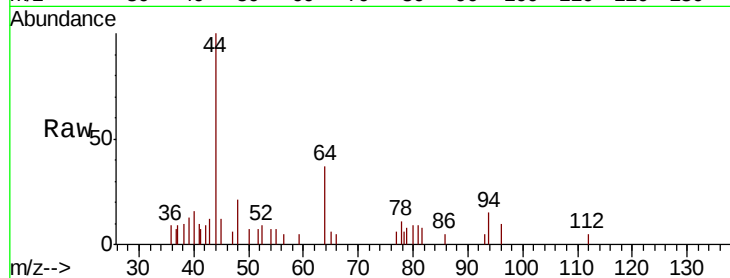
TRIPLE-BARREL-BC-EAST

Tgt Ion: 64 Resp: 162

Ion Ratio Lower Upper

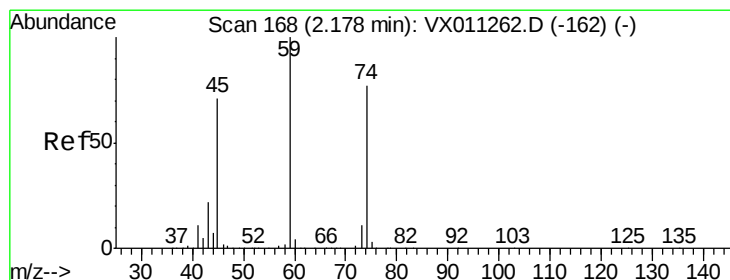
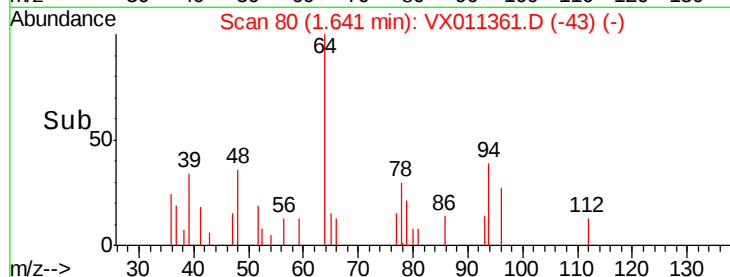
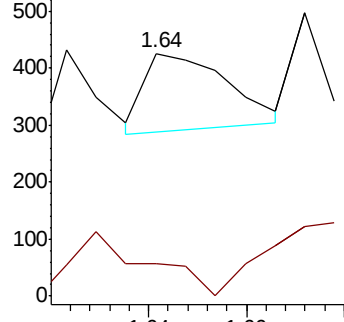
64 100

66 0.0 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#8

Diethyl Ether

Concen: 0.468 ug/l

RT: 2.18 min Scan# 169

Delta R.T. 0.01 min

Lab File: VX011361.D

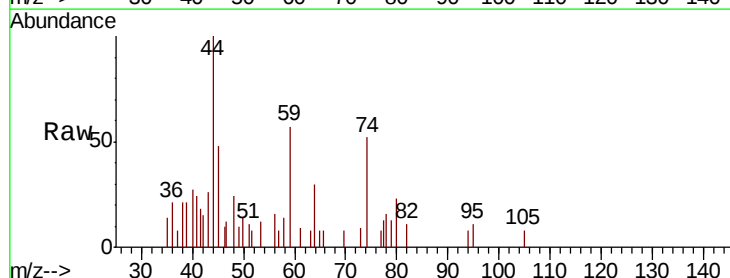
Acq: 07 Aug 2019 14:18

Tgt Ion: 74 Resp: 578

Ion Ratio Lower Upper

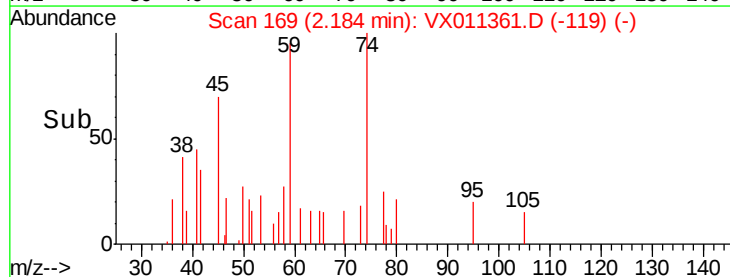
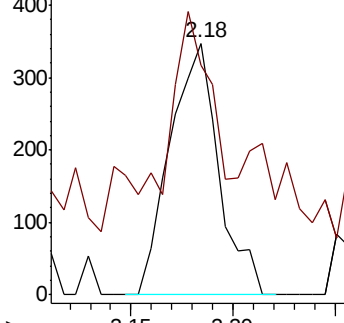
74 100

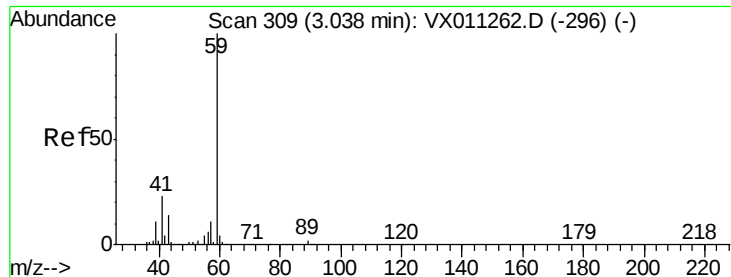
45 50.9 46.1 138.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

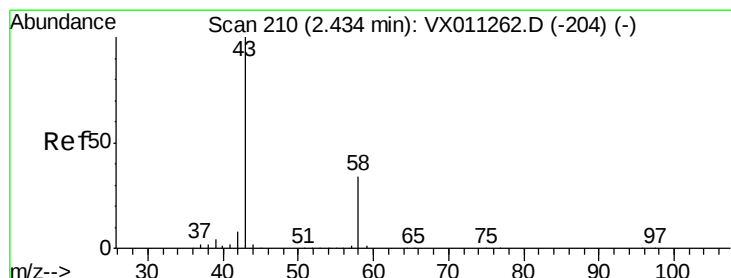
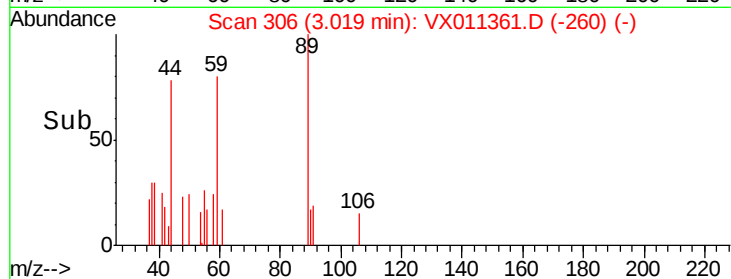
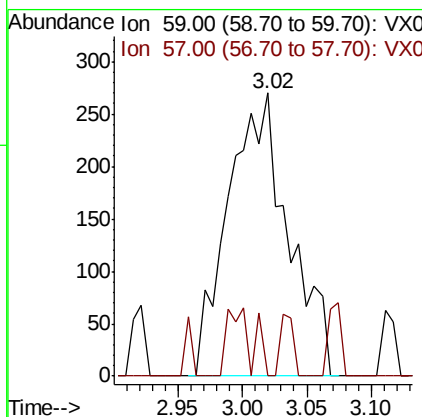
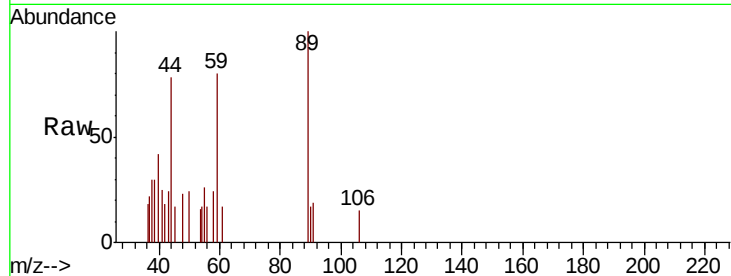




#11
Tert butyl alcohol
Concen: 2.170 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.02 min
Lab File: VX011361.D
Acq: 07 Aug 2019 14:18

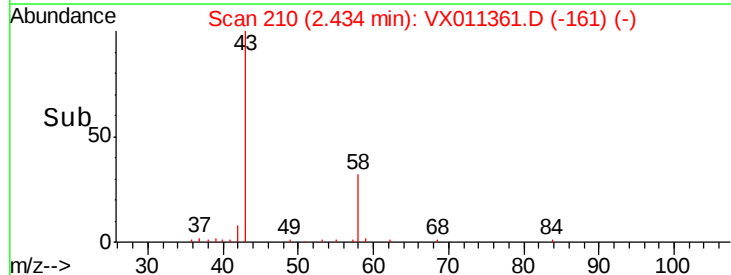
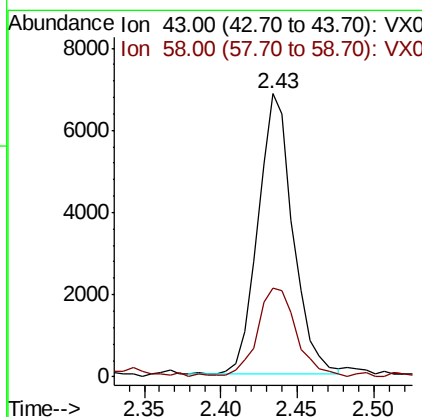
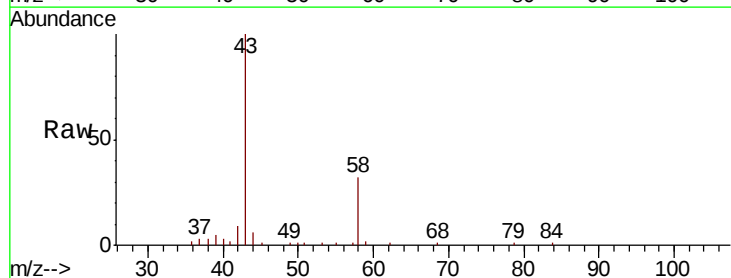
Instrument :
MSVOA_X
ClientSampleId :
TRIPLE-BARREL-BC-EAST

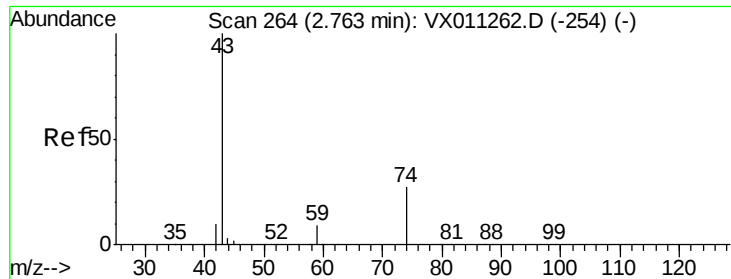
Tgt Ion: 59 Resp: 879
Ion Ratio Lower Upper
59 100
57 4.8 8.3 12.5#



#16
Acetone
Concen: 11.169 ug/l
RT: 2.43 min Scan# 210
Delta R.T. -0.00 min
Lab File: VX011361.D
Acq: 07 Aug 2019 14:18

Tgt Ion: 43 Resp: 10914
Ion Ratio Lower Upper
43 100
58 31.9 27.4 41.0

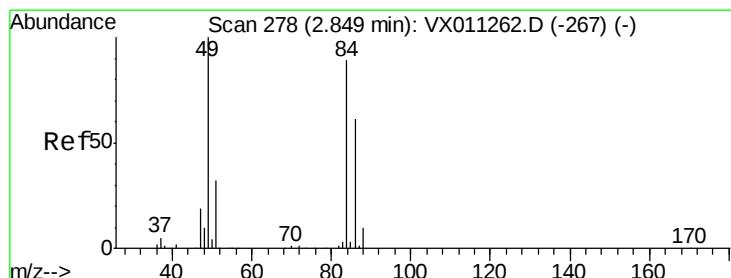
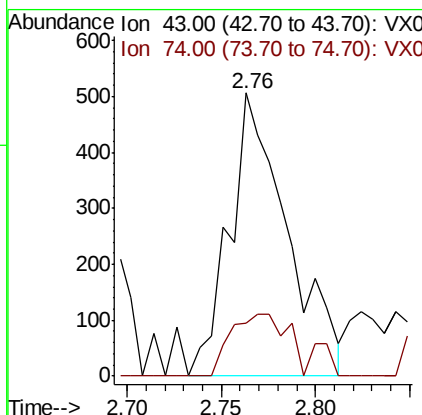
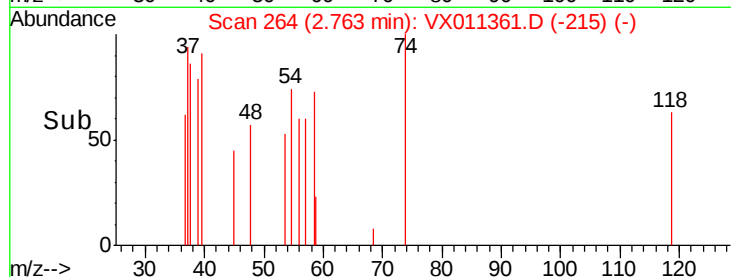
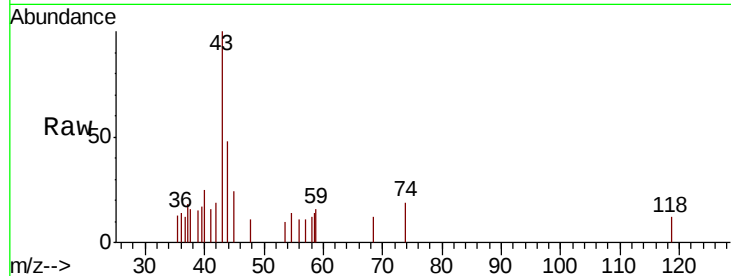




#18
Methyl Acetate
Concen: 0.485 ug/l
RT: 2.76 min Scan# 264
Delta R.T. 0.00 min
Lab File: VX011361.D
Acq: 07 Aug 2019 14:18

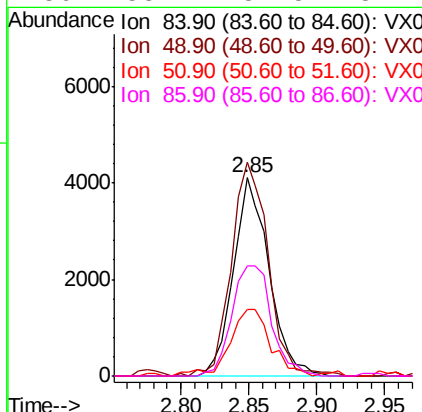
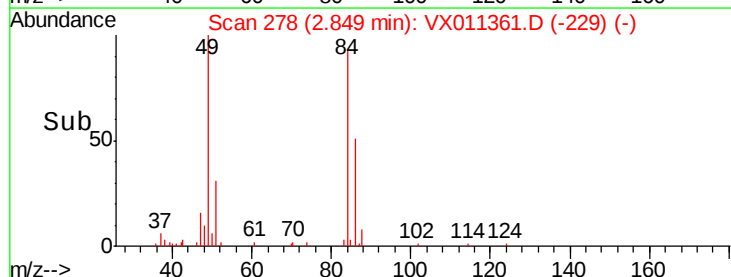
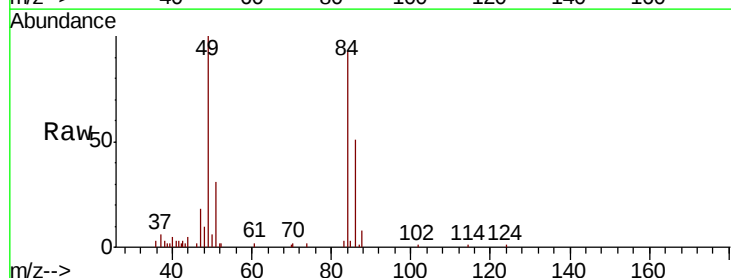
Instrument :
MSVOA_X
ClientSampleId :
TRIPLE-BARREL-BC-EAST

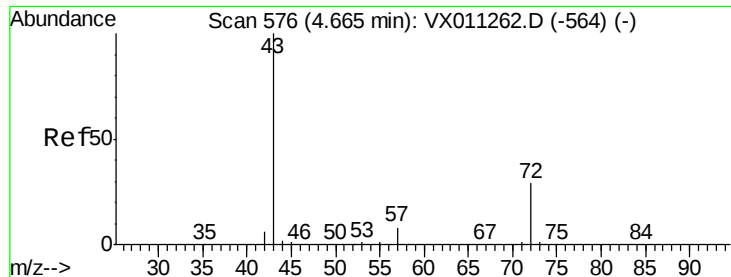
Tgt Ion: 43 Resp: 1083
Ion Ratio Lower Upper
43 100
74 21.3 21.0 31.6



#20
Methylene Chloride
Concen: 3.494 ug/l
RT: 2.85 min Scan# 278
Delta R.T. 0.00 min
Lab File: VX011361.D
Acq: 07 Aug 2019 14:18

Tgt Ion: 84 Resp: 7478
Ion Ratio Lower Upper
84 100
49 108.0 89.3 133.9
51 31.4 28.3 42.5
86 55.4 54.5 81.7





#25

2-Butanone

Concen: 0.847 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.02 min

Lab File: VX011361.D

Acq: 07 Aug 2019 14:18

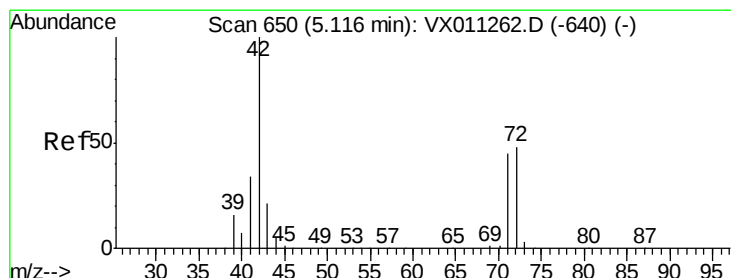
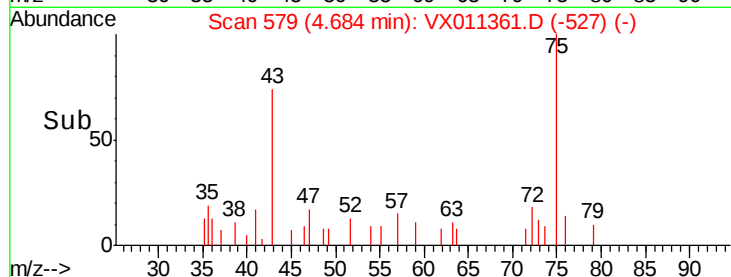
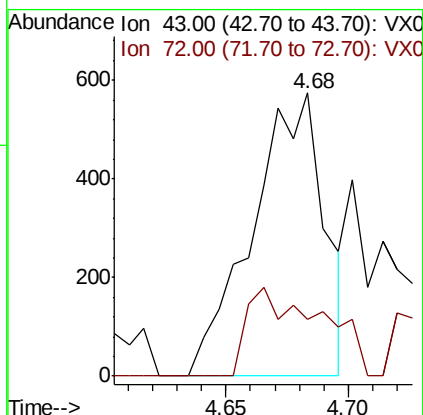
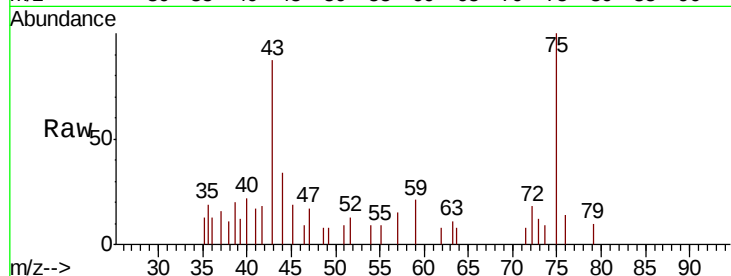
Instrument :
MSVOA_X
ClientSampleId :
TRIPLE-BARREL-BC-EAST

Tgt Ion: 43 Resp: 1178

Ion Ratio Lower Upper

43 100

72 20.0 23.2 34.8#



#29

Tetrahydrofuran

Concen: 0.576 ug/l

RT: 5.14 min Scan# 654

Delta R.T. 0.02 min

Lab File: VX011361.D

Acq: 07 Aug 2019 14:18

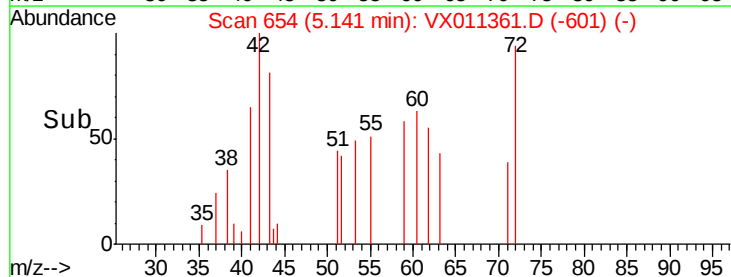
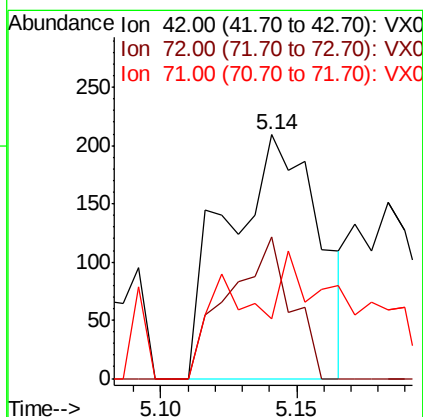
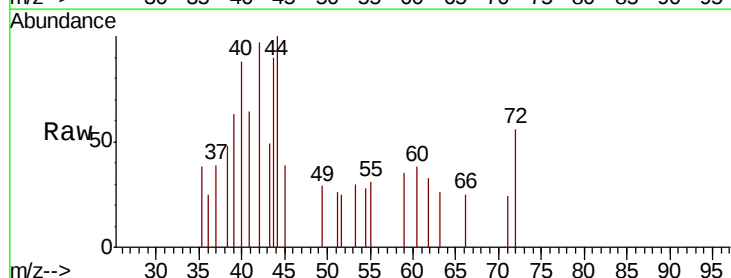
Tgt Ion: 42 Resp: 491

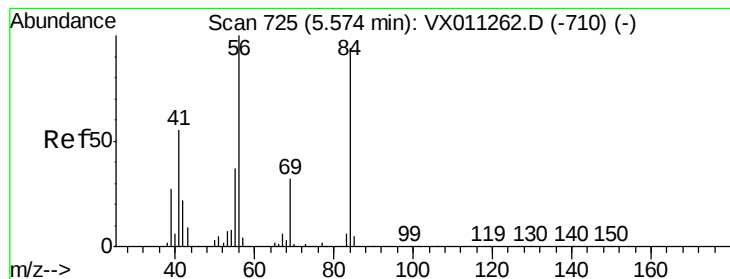
Ion Ratio Lower Upper

42 100

72 39.5 39.9 59.9#

71 42.6 36.9 55.3





#31

Cyclohexane

Concen: 1.536 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.08 min

Lab File: VX011361.D

Acq: 07 Aug 2019 14:18

Instrument :
MSVOA_X
ClientSampleId :
TRIPLE-BARREL-BC-EAST

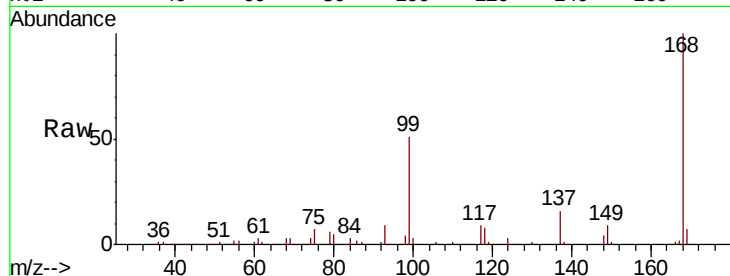
Tgt Ion: 56 Resp: 4061

Ion Ratio Lower Upper

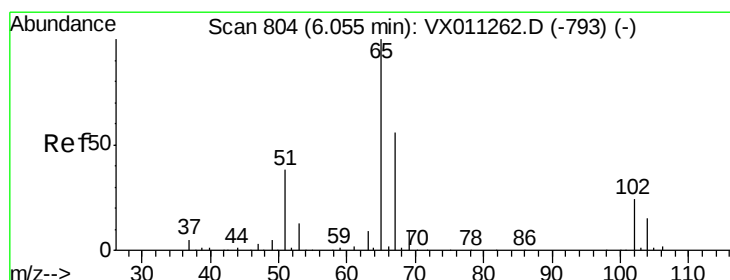
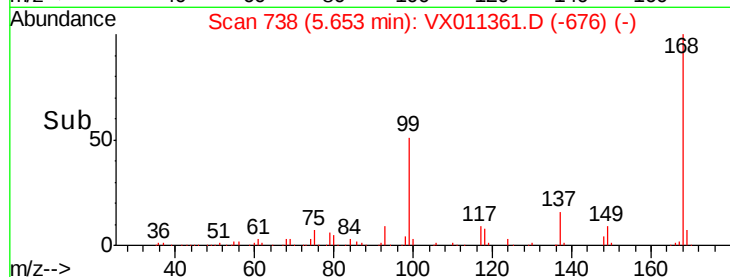
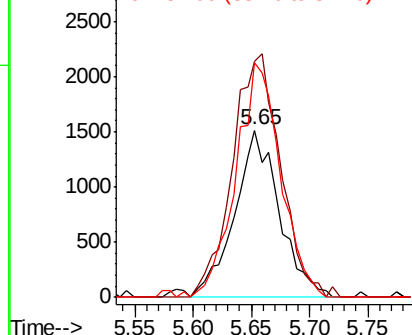
56 100

69 141.3 25.5 38.3#

84 140.4 75.0 112.4#



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: 50.791 ug/l

RT: 6.06 min Scan# 804

Delta R.T. -0.00 min

Lab File: VX011361.D

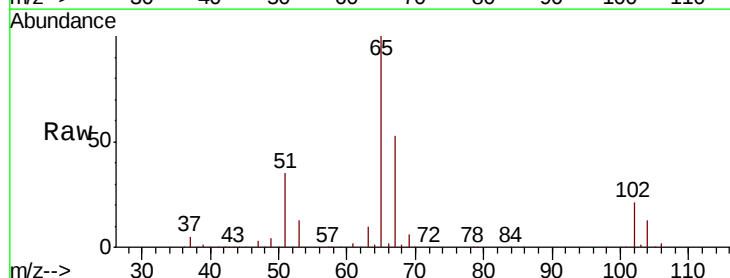
Acq: 07 Aug 2019 14:18

Tgt Ion: 65 Resp: 104269

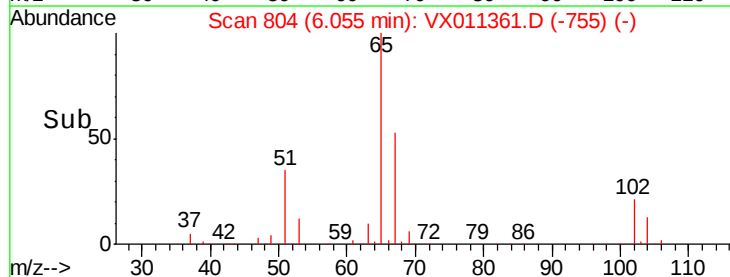
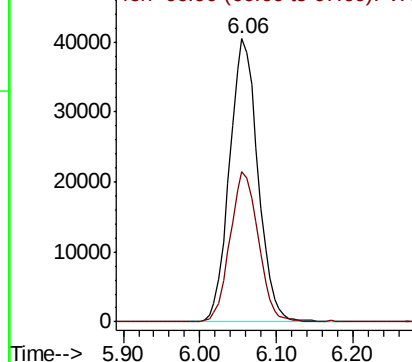
Ion Ratio Lower Upper

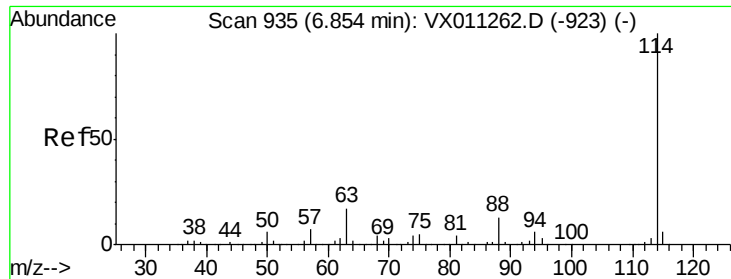
65 100

67 52.8 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

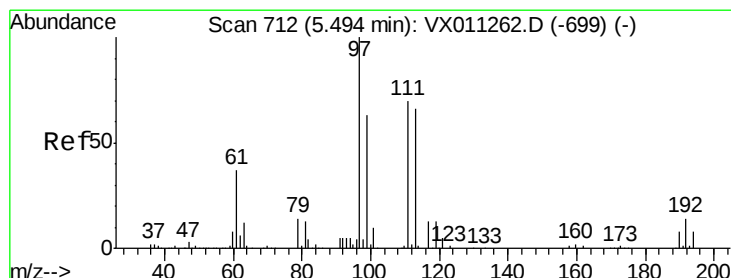
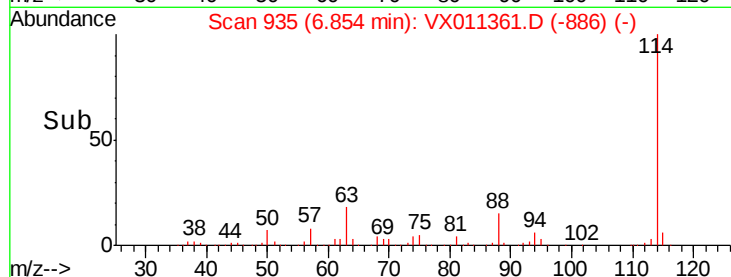
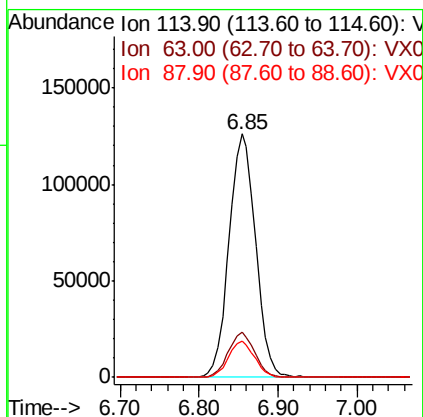
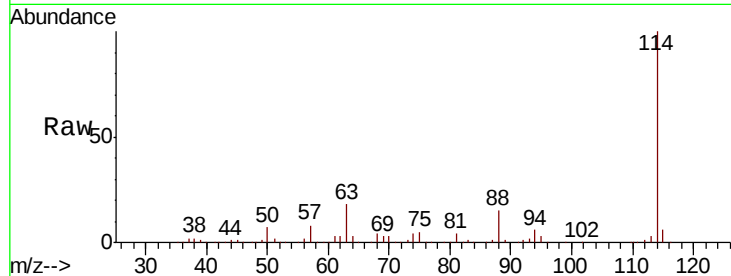




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.85 min Scan# 935
Delta R.T. 0.00 min
Lab File: VX011361.D
Acq: 07 Aug 2019 14:18

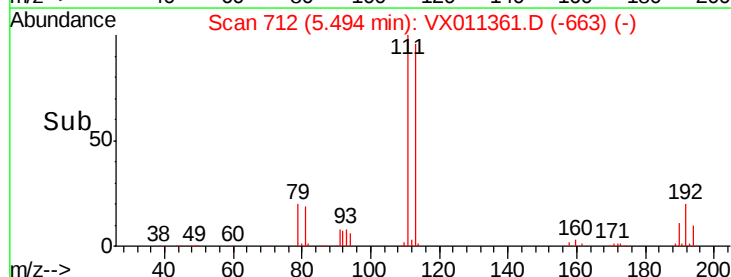
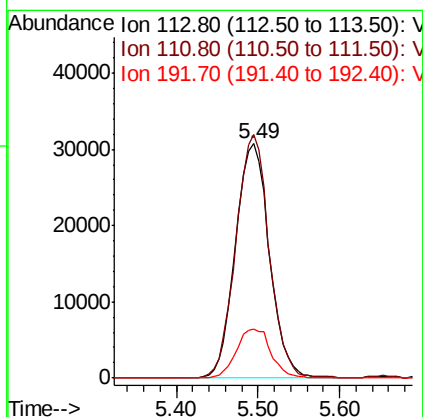
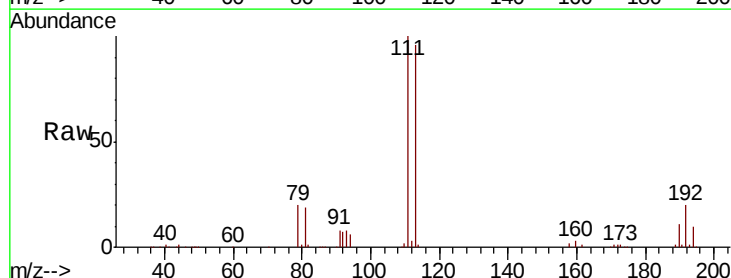
Instrument :
MSVOA_X
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TRIPLE-BARREL-BC-EAST

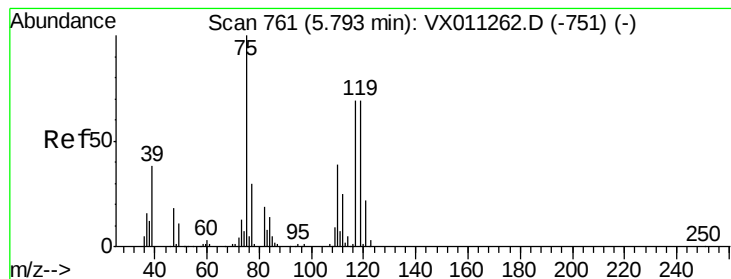
Tgt Ion:114 Resp: 295650
Ion Ratio Lower Upper
114 100
63 18.4 0.0 34.0
88 14.8 0.0 26.4



#35
Dibromofluoromethane
Concen: 46.097 ug/l
RT: 5.49 min Scan# 712
Delta R.T. 0.00 min
Lab File: VX011361.D
Acq: 07 Aug 2019 14:18

Tgt Ion:113 Resp: 88977
Ion Ratio Lower Upper
113 100
111 102.0 81.9 122.9
192 21.5 17.8 26.8





#36

1,1-Dichloropropene

Concen: 5.193 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.14 min

Lab File: VX011361.D

Acq: 07 Aug 2019 14:18

Instrument :

MSVOA_X

ClientSampleId :

TRIPLE-BARREL-BC-EAST

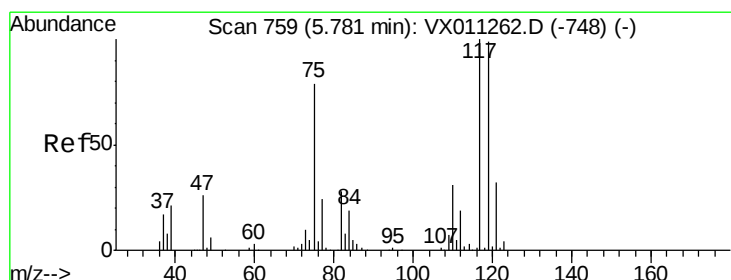
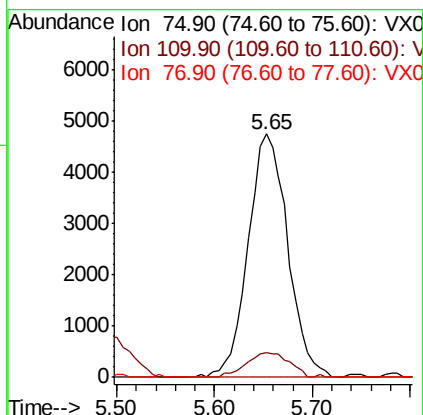
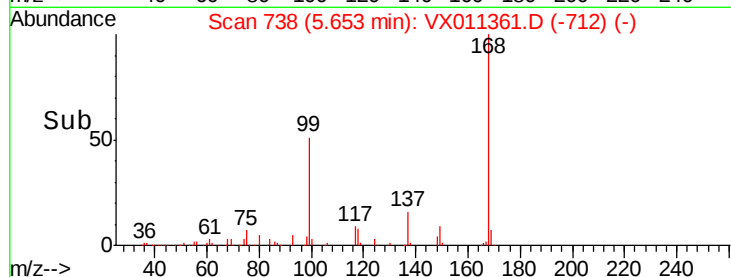
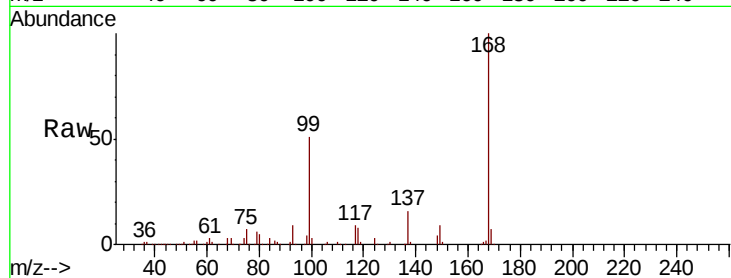
Tgt Ion: 75 Resp: 13405

Ion Ratio Lower Upper

75 100

110 11.0 20.0 59.9#

77 0.0 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 7.114 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX011361.D

Acq: 07 Aug 2019 14:18

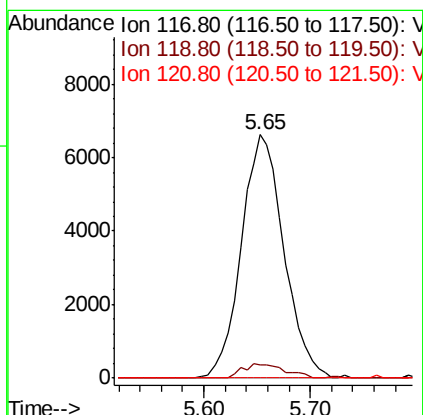
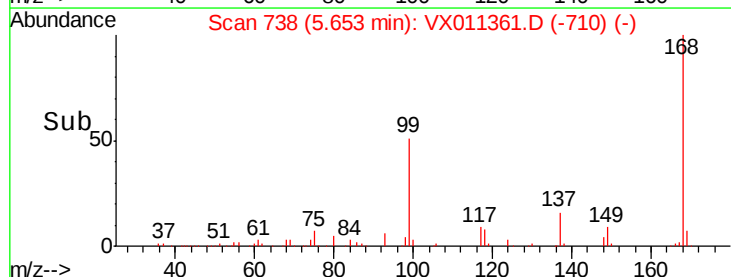
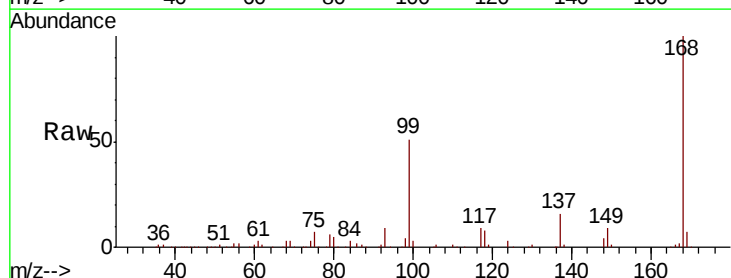
Tgt Ion: 117 Resp: 18475

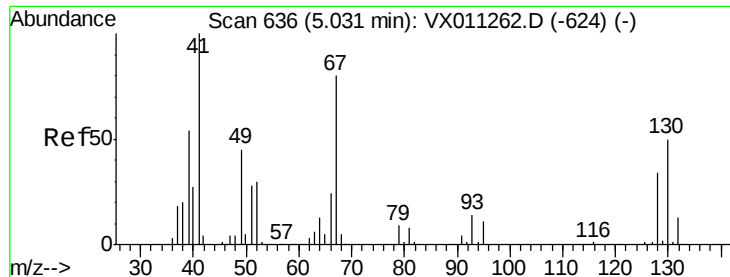
Ion Ratio Lower Upper

117 100

119 5.6 79.0 118.4#

121 0.0 25.9 38.9#





#41

Methacrylonitrile

Concen: 0.201 ug/l

RT: 5.04 min Scan# 638

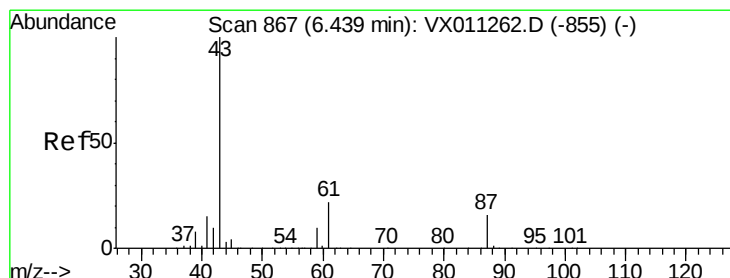
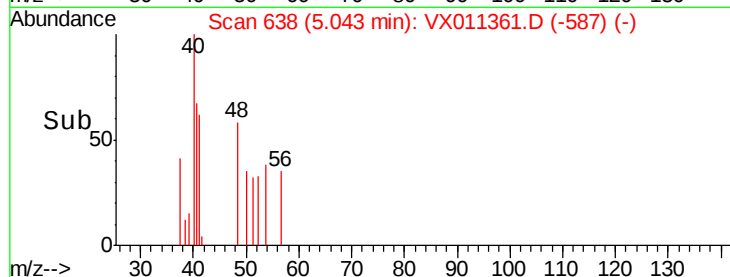
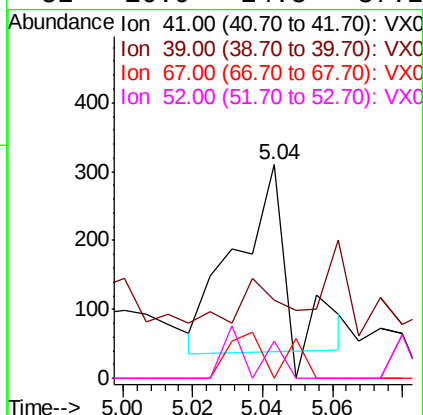
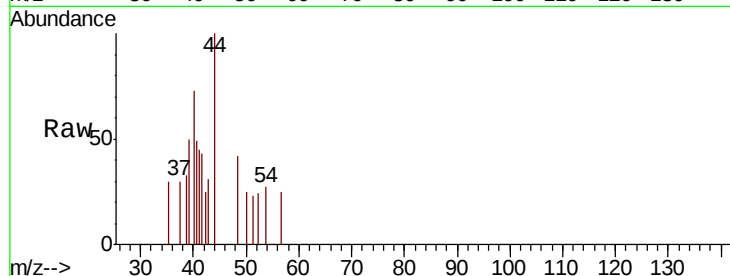
Delta R.T. 0.01 min

Lab File: VX011361.D

Acq: 07 Aug 2019 14:18

Instrument :
MSVOA_X
ClientSampleId :
TRIPLE-BARREL-BC-EAST

Tgt Ion:	41	Resp:	284
Ion	Ratio	Lower	Upper
41	100		
39	14.8	43.0	64.6#
67	22.9	65.1	97.7#
52	16.9	24.8	37.2#



#43

Isopropyl Acetate

Concen: 1.770 ug/l

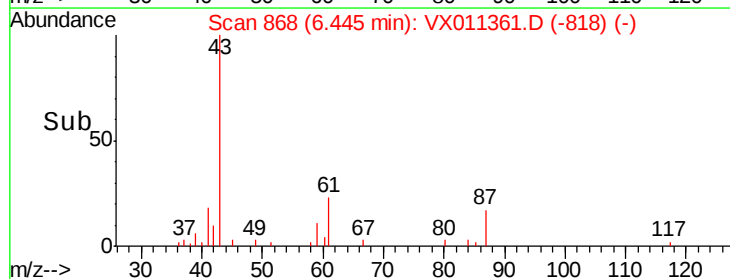
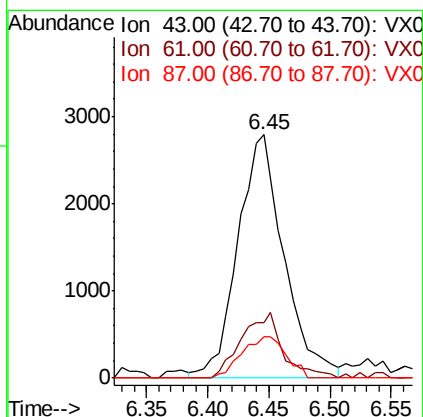
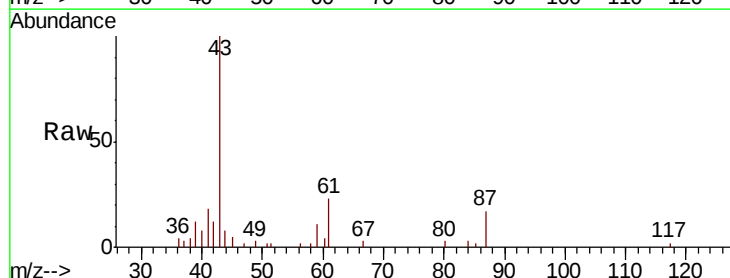
RT: 6.45 min Scan# 868

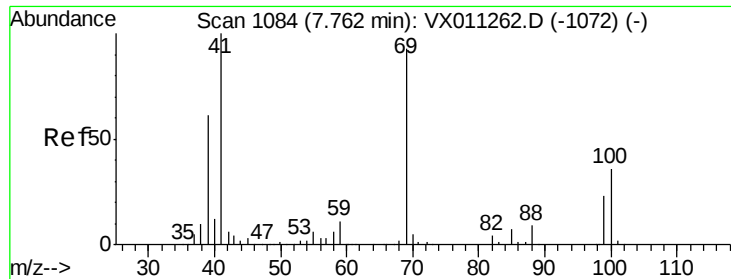
Delta R.T. 0.01 min

Lab File: VX011361.D

Acq: 07 Aug 2019 14:18

Tgt Ion:	43	Resp:	7328
Ion	Ratio	Lower	Upper
43	100		
61	24.1	16.5	24.7
87	16.3	12.1	18.1





#48

Methyl methacrylate

Concen: 1.855 ug/l

RT: 7.68 min Scan# 1070

Delta R.T. -0.09 min

Lab File: VX011361.D

Acq: 07 Aug 2019 14:18

Instrument :

MSVOA_X

ClientSampleId :

TRIPLE-BARREL-BC-EAST

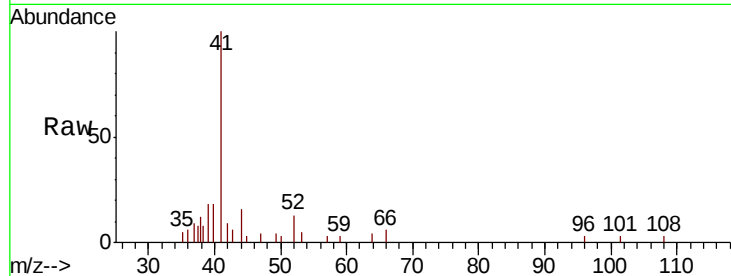
Tgt Ion: 41 Resp: 3613

Ion Ratio Lower Upper

41 100

69 0.0 74.5 111.7#

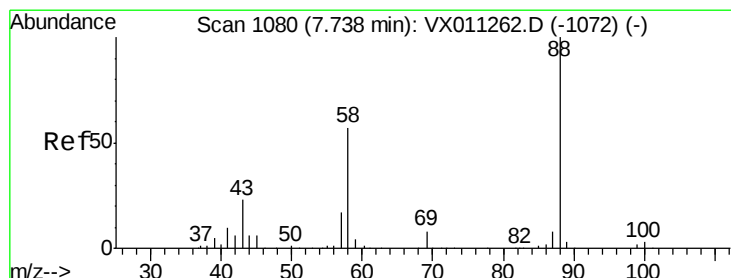
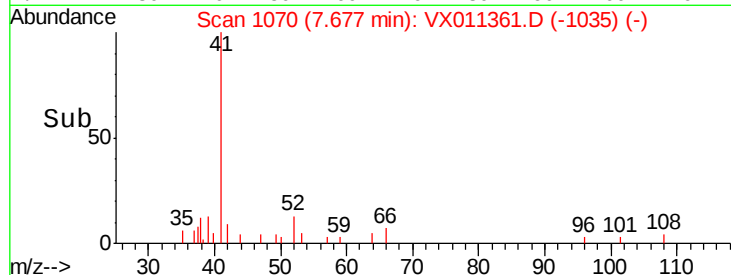
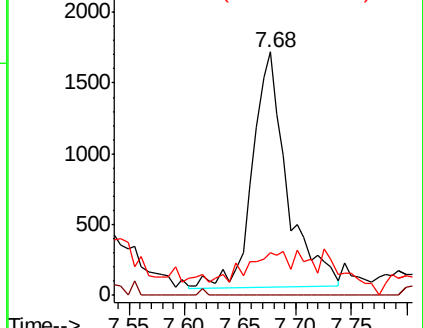
39 0.0 48.6 72.8#



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



#49

1,4-Dioxane

Concen: 0.407 ug/l

RT: 7.76 min Scan# 1083

Delta R.T. 0.02 min

Lab File: VX011361.D

Acq: 07 Aug 2019 14:18

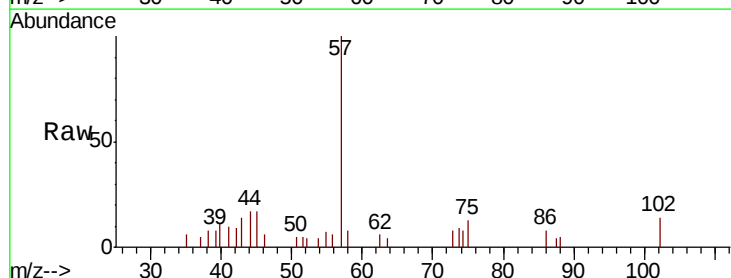
Tgt Ion: 88 Resp: 23

Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.2#

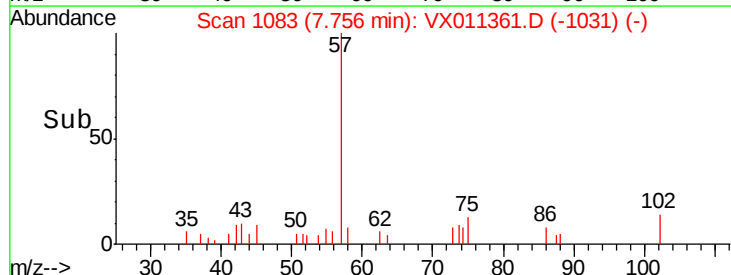
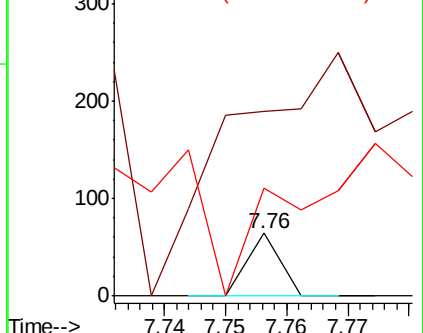
58 1134.8 47.8 71.8#

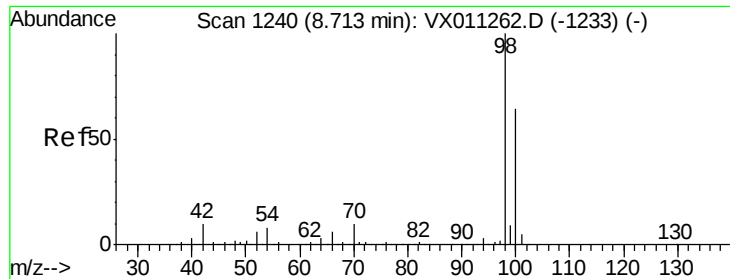


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

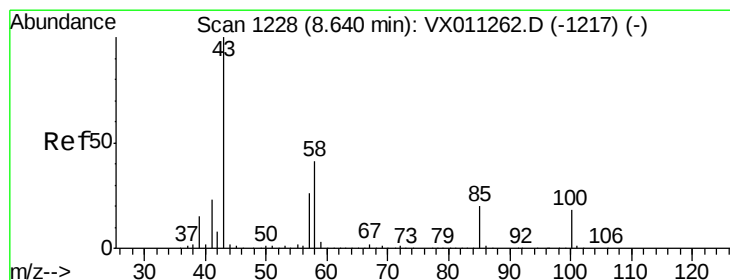
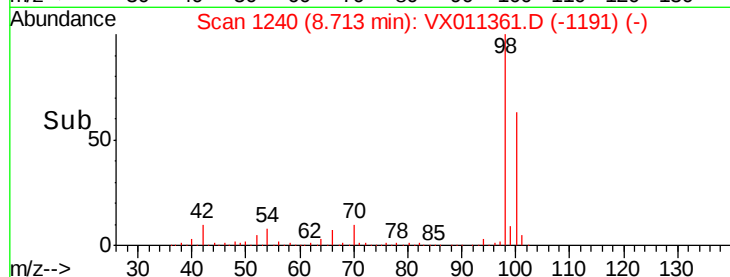
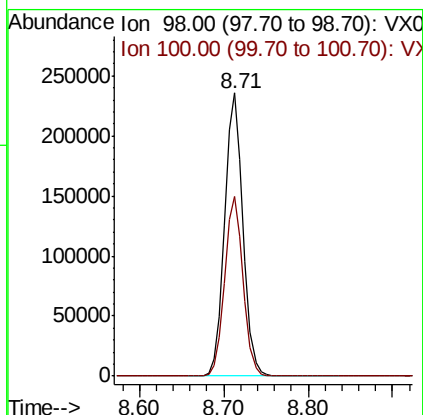
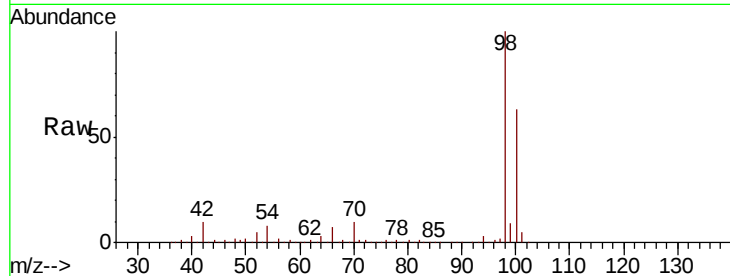




#50
Toluene-d8
Concen: 48.420 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX011361.D
Acq: 07 Aug 2019 14:18

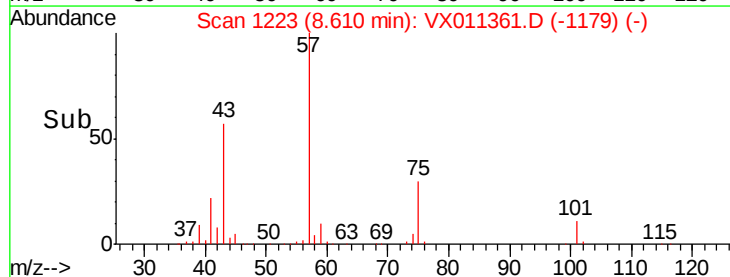
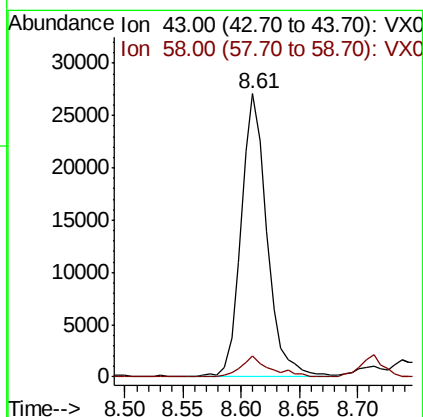
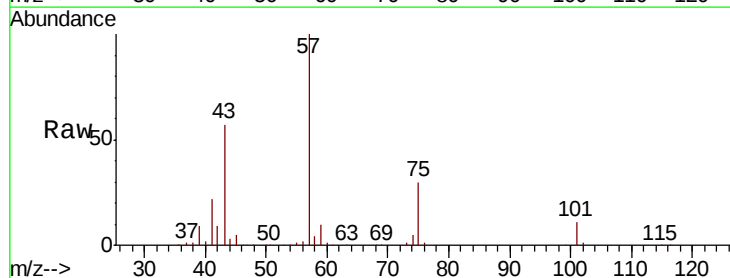
Instrument :
MSVOA_X
ClientSampleId :
TRIPLE-BARREL-BC-EAST

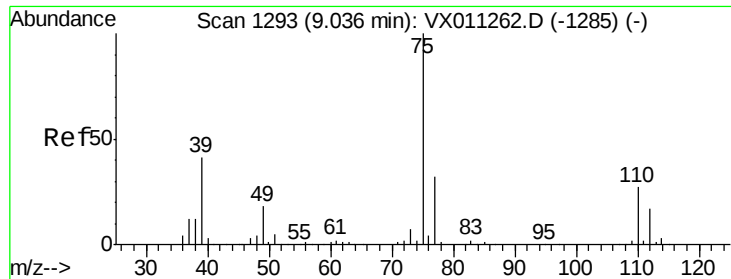
Tgt Ion: 98 Resp: 352792
Ion Ratio Lower Upper
98 100
100 63.7 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 15.628 ug/l
RT: 8.61 min Scan# 1223
Delta R.T. -0.03 min
Lab File: VX011361.D
Acq: 07 Aug 2019 14:18

Tgt Ion: 43 Resp: 41751
Ion Ratio Lower Upper
43 100
58 8.3 32.3 48.5#

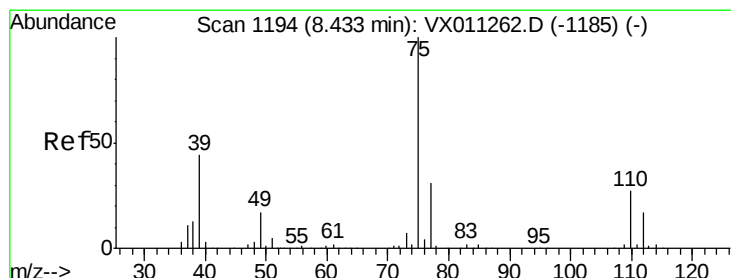
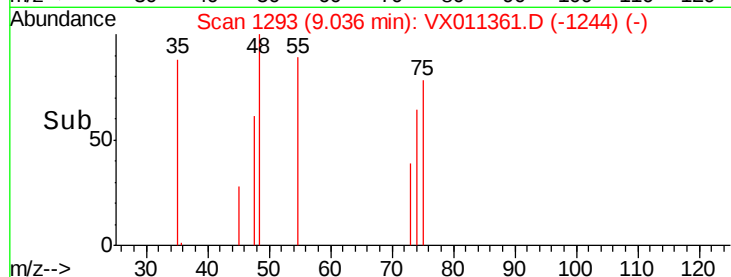
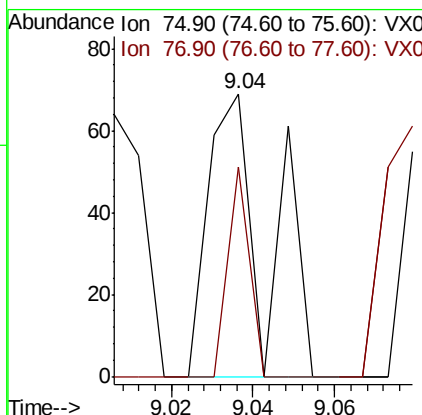
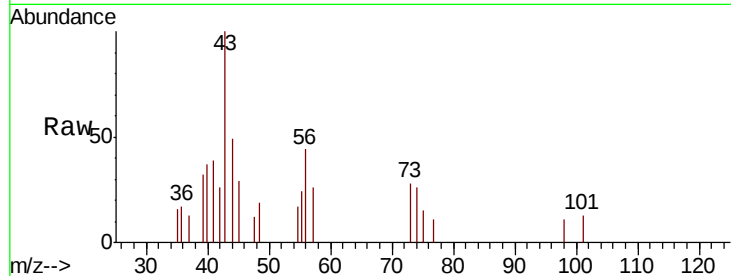




#53
 t-1,3-Dichloropropene
 Concen: 2.861 ug/l
 RT: 9.04 min Scan# 1293
 Delta R.T. 0.00 min
 Lab File: VX011361.D
 Acq: 07 Aug 2019 14:18

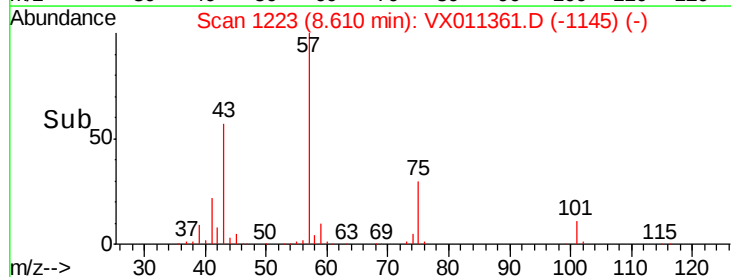
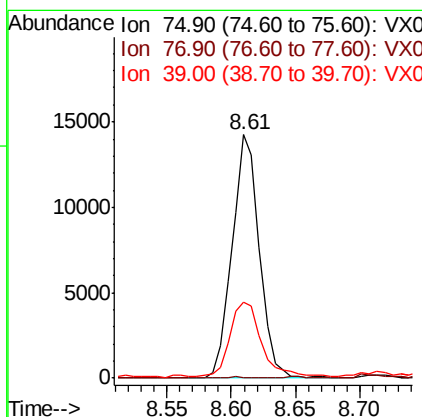
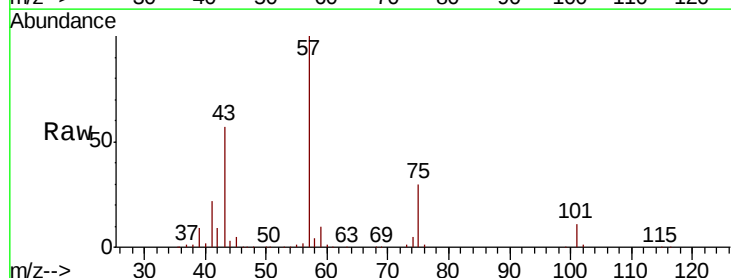
Instrument :
 MSVOA_X
 ClientSampleId :
 TRIPLE-BARREL-BC-EAST

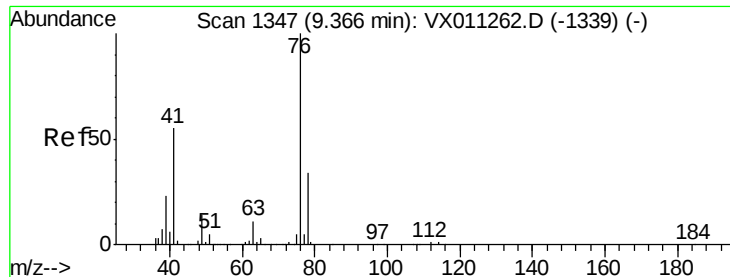
Tgt Ion: 75 Resp: 69
 Ion Ratio Lower Upper
 75 100
 77 73.9 25.4 38.0#



#54
 cis-1,3-Dichloropropene
 Concen: 7.287 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. 0.18 min
 Lab File: VX011361.D
 Acq: 07 Aug 2019 14:18

Tgt Ion: 75 Resp: 20989
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.6#
 39 30.9 35.3 52.9#





#57

1,3-Dichloropropane

Concen: 0.810 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.18 min

Lab File: VX011361.D

Acq: 07 Aug 2019 14:18

Instrument :

MSVOA_X

ClientSampleId :

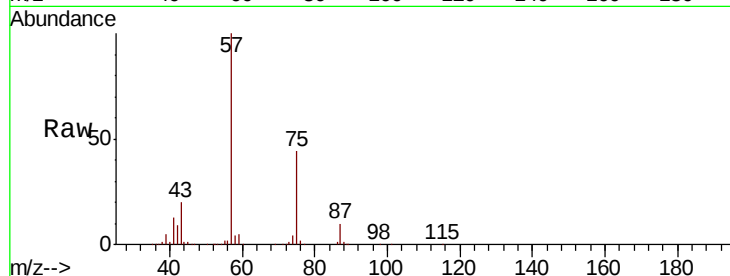
TRIPLE-BARREL-BC-EAST

Tgt Ion: 76 Resp: 2684

Ion Ratio Lower Upper

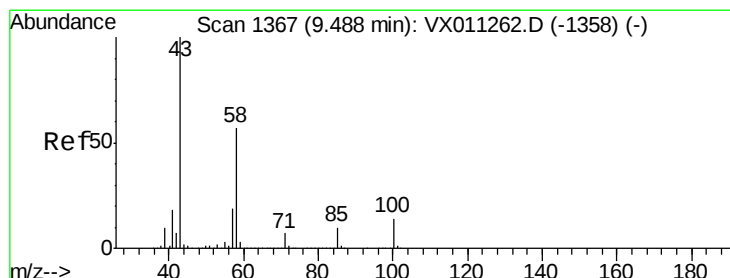
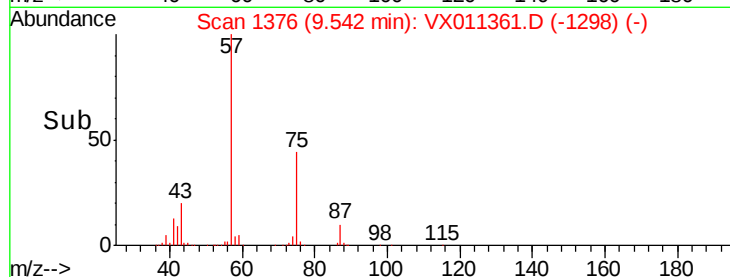
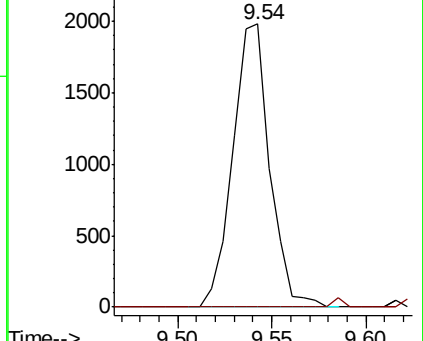
76 100

78 0.0 26.6 40.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#59

2-Hexanone

Concen: 15.398 ug/l

RT: 9.54 min Scan# 1375

Delta R.T. 0.05 min

Lab File: VX011361.D

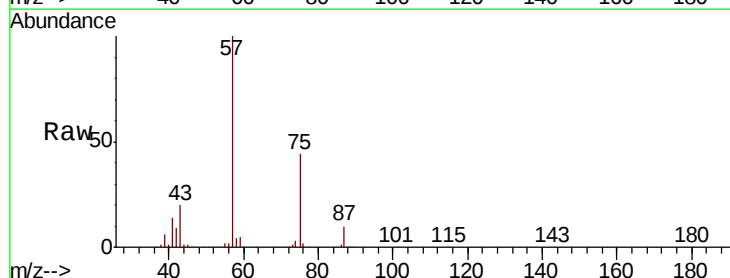
Acq: 07 Aug 2019 14:18

Tgt Ion: 43 Resp: 31862

Ion Ratio Lower Upper

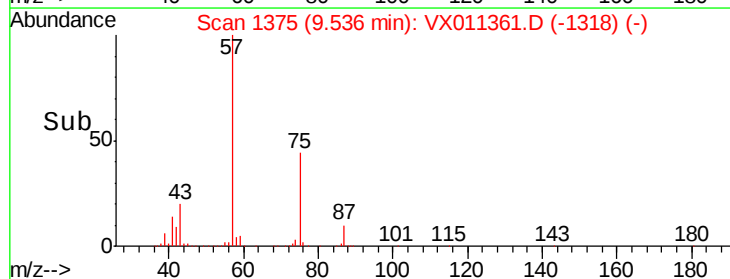
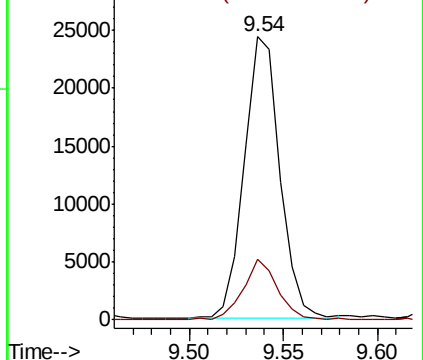
43 100

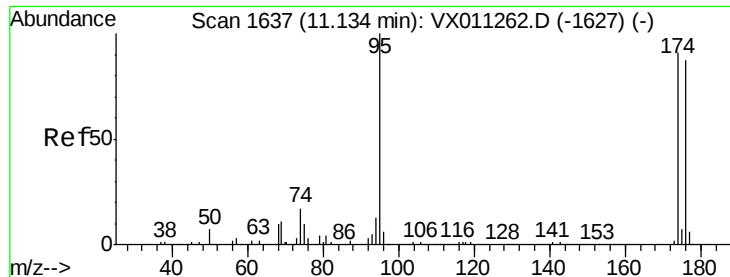
58 21.2 28.2 84.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

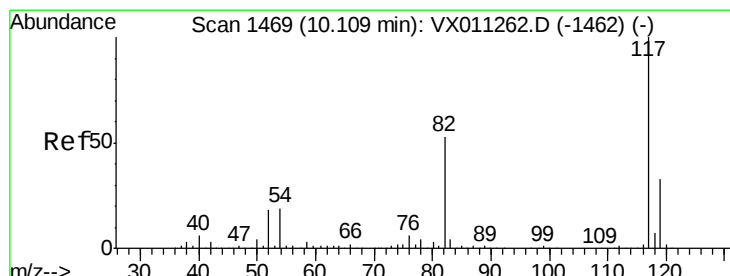
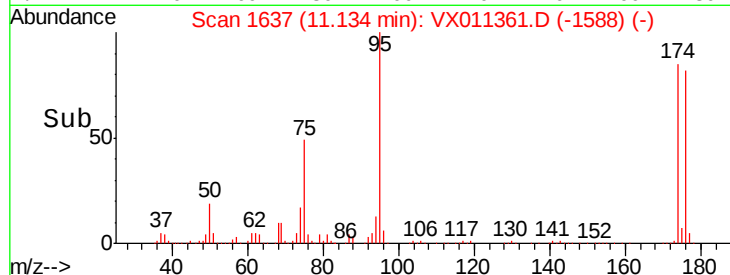
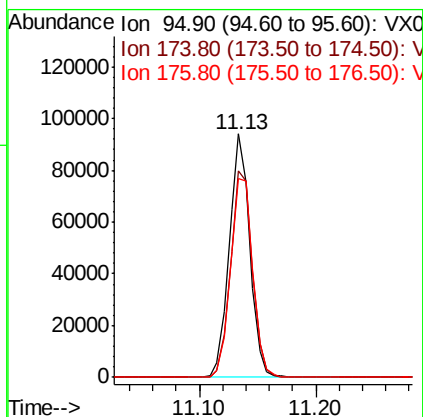
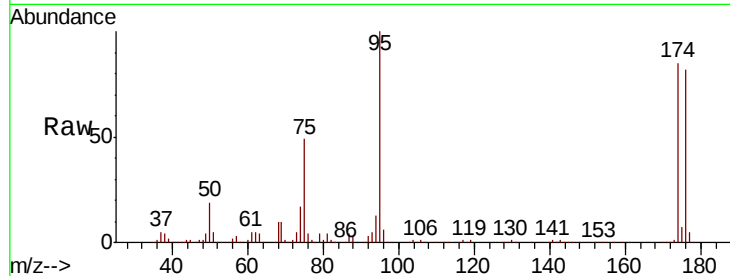




#62
4-Bromofluorobenzene
Concen: 44.329 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX011361.D
Acq: 07 Aug 2019 14:18

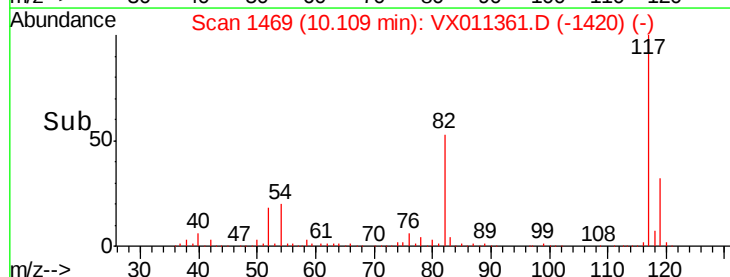
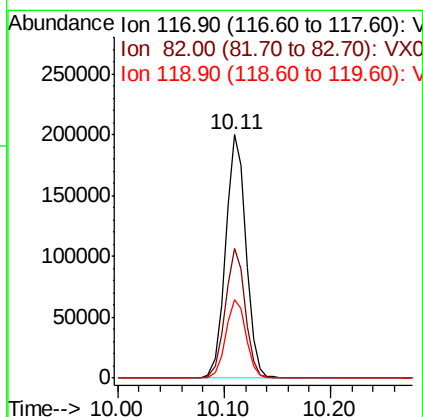
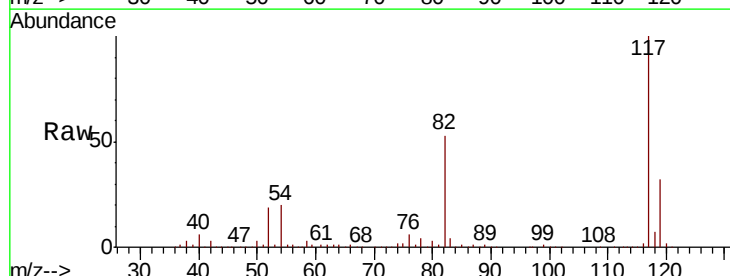
Instrument :
MSVOA_X
ClientSampleId :
TRIPLE-BARREL-BC-EAST

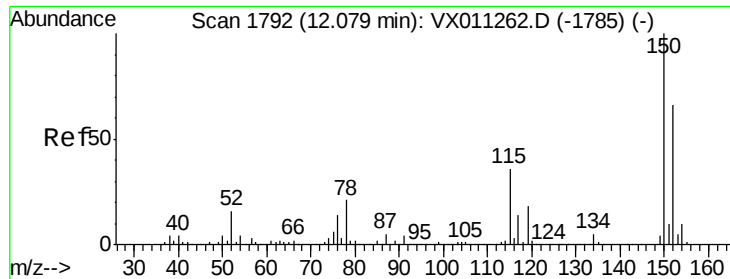
Tgt Ion: 95 Resp: 115314
Ion Ratio Lower Upper
95 100
174 89.9 0.0 191.2
176 89.0 0.0 184.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011361.D
Acq: 07 Aug 2019 14:18

Tgt Ion: 117 Resp: 267701
Ion Ratio Lower Upper
117 100
82 53.0 42.2 63.2
119 32.3 26.6 39.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX011361.D

Acq: 07 Aug 2019 14:18

Instrument :

MSVOA_X

ClientSampleId :

TRIPLE-BARREL-BC-EAST

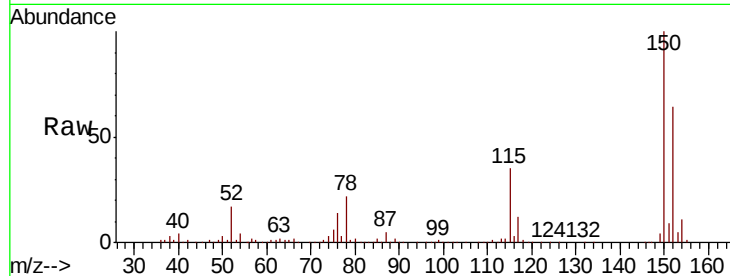
Tgt Ion: 152 Resp: 119133

Ion Ratio Lower Upper

152 100

115 56.6 40.0 119.9

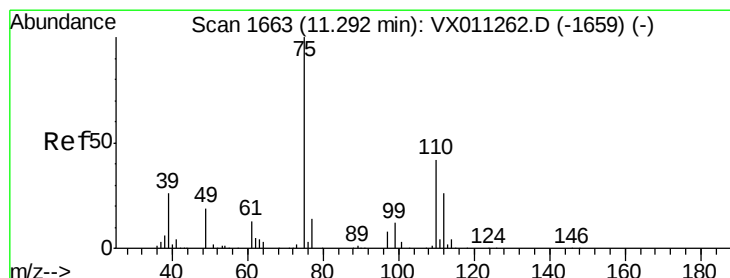
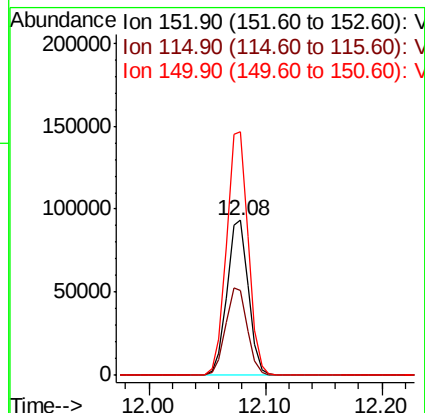
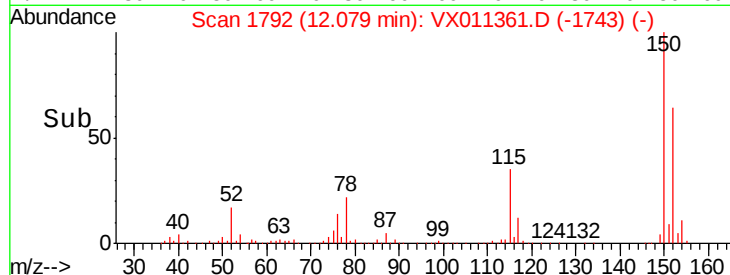
150 157.9 0.0 350.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 26.208 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011361.D

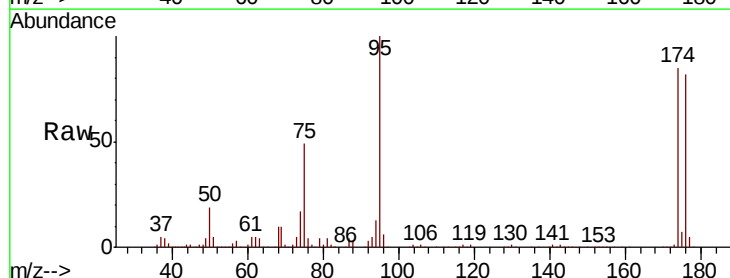
Acq: 07 Aug 2019 14:18

Tgt Ion: 75 Resp: 56859

Ion Ratio Lower Upper

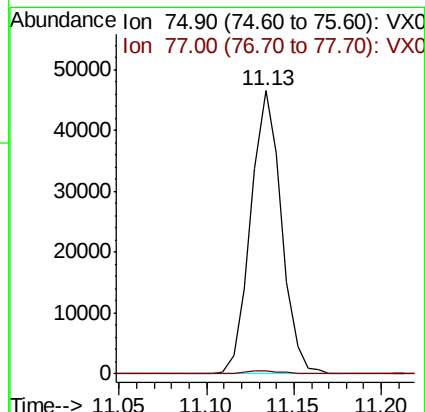
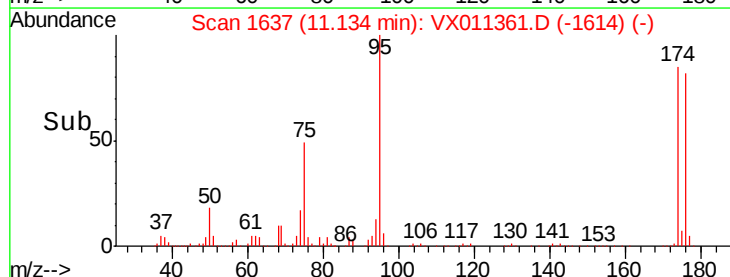
75 100

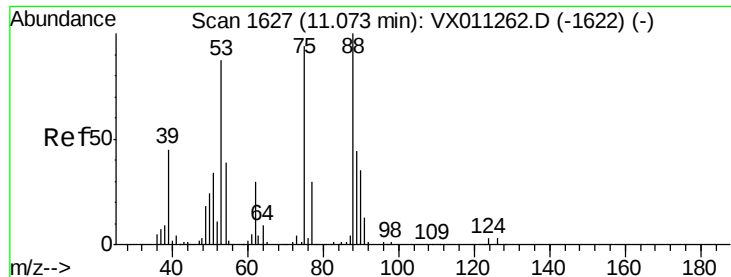
77 1.3 21.1 63.4#



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: 68.172 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011361.D

Acq: 07 Aug 2019 14:18

Instrument :

MSVOA_X

ClientSampleId :

TRIPLE-BARREL-BC-EAST

Tgt Ion: 75 Resp: 56859

Ion Ratio Lower Upper

75 100

53 0.2 78.2 117.4#

89 0.1 37.9 56.9#

