

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX100319\
 Data File : VX012790.D
 Acq On : 03 Oct 2019 17:46
 Operator : JC/SP
 Sample : K5189-06
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ133I-20190930

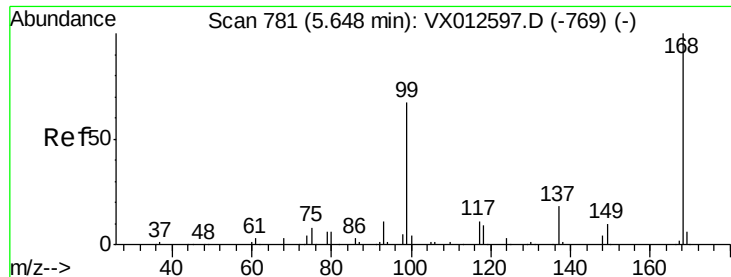
Quant Time: Oct 04 06:51:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 23 12:27:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	166854	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	289493	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	242511	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	86053	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	117820	48.49	ug/l	0.00
Spiked Amount			Recovery	=	96.98%	
35) Dibromofluoromethane	5.49	113	87738	50.89	ug/l	0.00
Spiked Amount			Recovery	=	101.78%	
50) Toluene-d8	8.71	98	343397	51.72	ug/l	0.00
Spiked Amount			Recovery	=	103.44%	
62) 4-Bromofluorobenzene	11.14	95	110032	42.15	ug/l	0.00
Spiked Amount			Recovery	=	84.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	2083	0.966	ug/l	99
5) Bromomethane	1.64	94	292	0.347	ug/l #	46
6) Chloroethane	1.75	64	413	0.286	ug/l #	45
11) Tert butyl alcohol	3.03	59	1321	2.176	ug/l #	72
13) Acrolein	2.26	56	57	10.395	ug/l #	1
16) Acetone	2.44	43	7872	6.117	ug/l	94
18) Methyl Acetate	2.59	43	9642	3.182	ug/l #	54
20) Methylene Chloride	2.86	84	560	0.257	ug/l #	66
24) 1,1-Dichloroethane	3.70	63	1405	0.376	ug/l #	81
31) Cyclohexane	5.65	56	3784	1.119	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	13629	4.884	ug/l #	52
38) Carbon Tetrachloride	5.65	117	17863	6.302	ug/l #	16
51) 4-Methyl-2-Pentanone	8.72	43	1735	0.515	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	56517	24.828	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	56517	71.152	ug/l #	8
88) 1,4-Dichlorobenzene	12.10	146	602	0.209	ug/l #	25

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

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MSVOA_X

ClientSampleId :

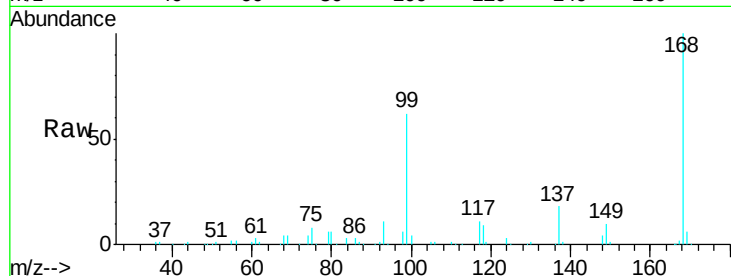
SA-PZ133I-20190930

Tgt Ion:168 Resp: 166854

Ion Ratio Lower Upper

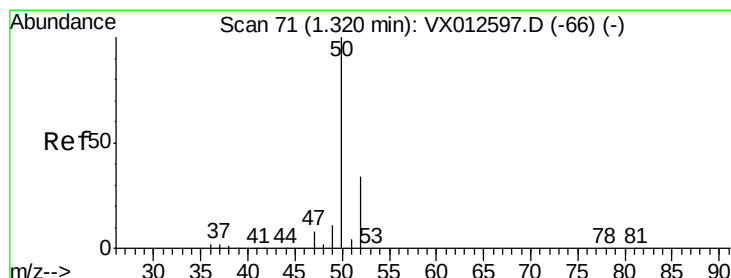
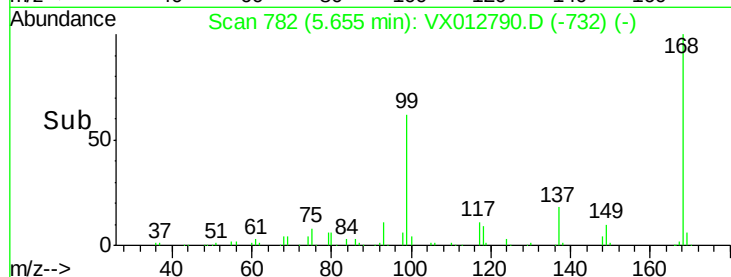
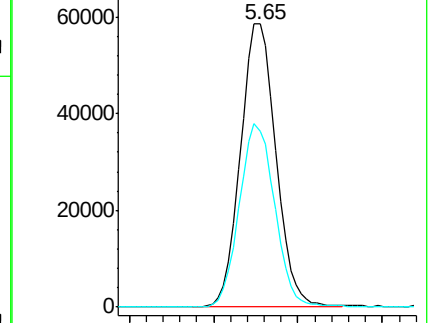
168 100

99 62.2 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.966 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012790.D

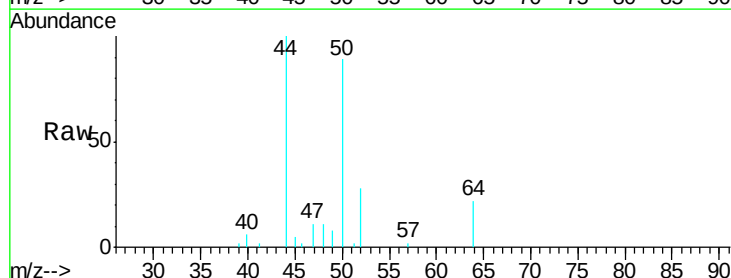
Acq: 03 Oct 2019 17:46

Tgt Ion: 50 Resp: 2083

Ion Ratio Lower Upper

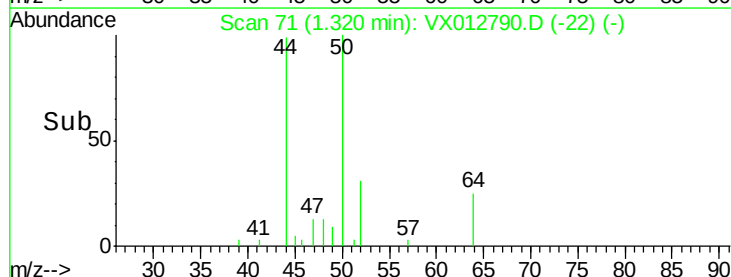
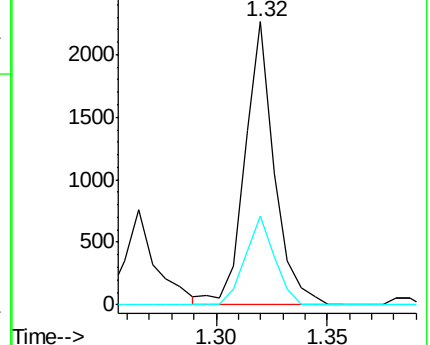
50 100

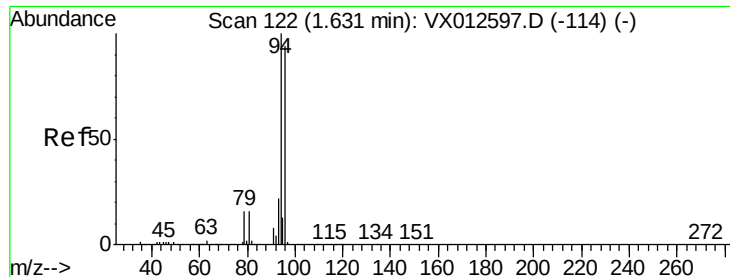
52 31.4 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.347 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX012790.D

Acq: 03 Oct 2019 17:46

Instrument :

MSVOA_X

ClientSampleId :

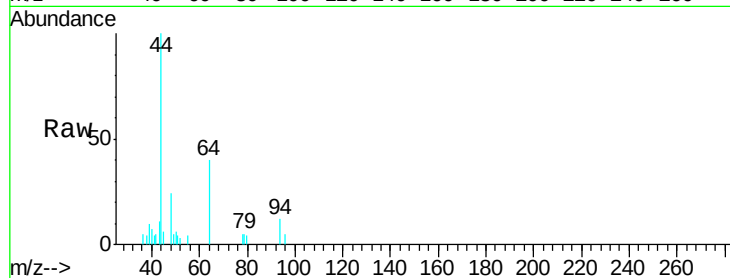
SA-PZ133I-20190930

Tgt Ion: 94 Resp: 292

Ion Ratio Lower Upper

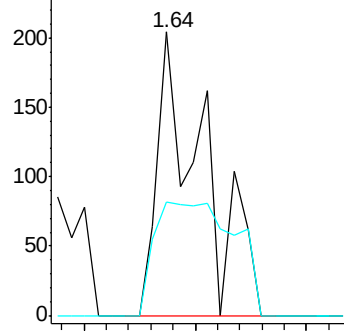
94 100

96 40.2 72.8 109.2#

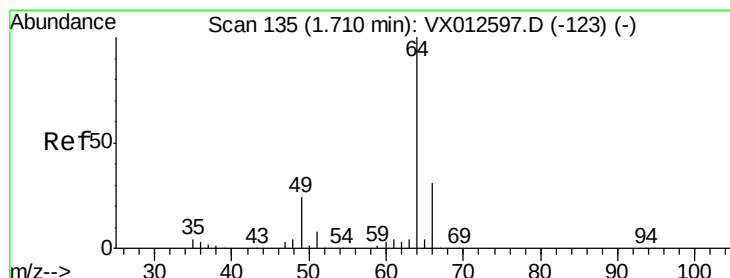
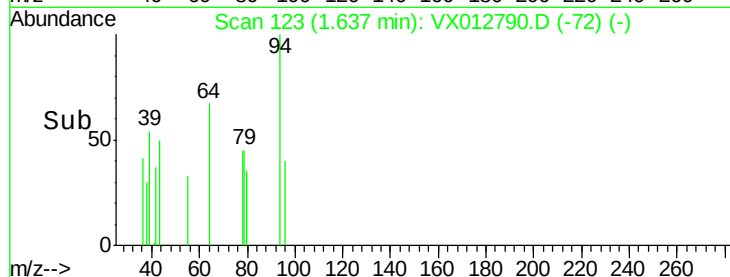


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#6

Chloroethane

Concen: 0.286 ug/l

RT: 1.75 min Scan# 142

Delta R.T. 0.04 min

Lab File: VX012790.D

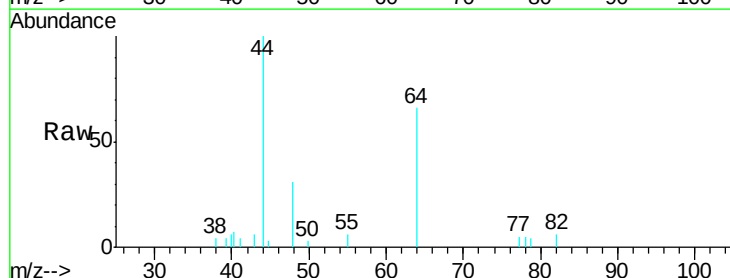
Acq: 03 Oct 2019 17:46

Tgt Ion: 64 Resp: 413

Ion Ratio Lower Upper

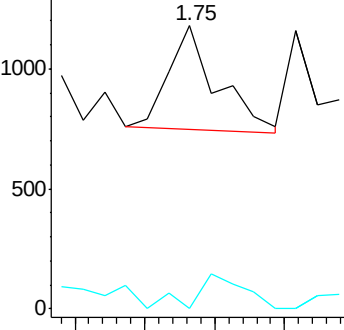
64 100

66 0.0 24.0 36.0#

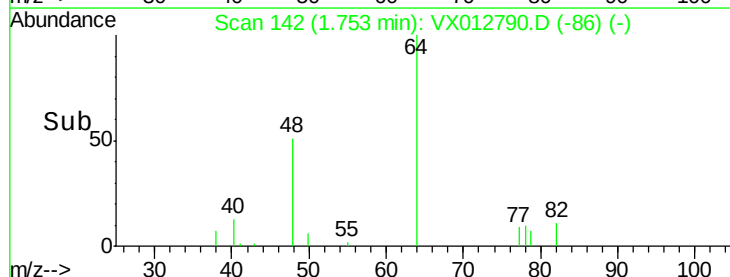


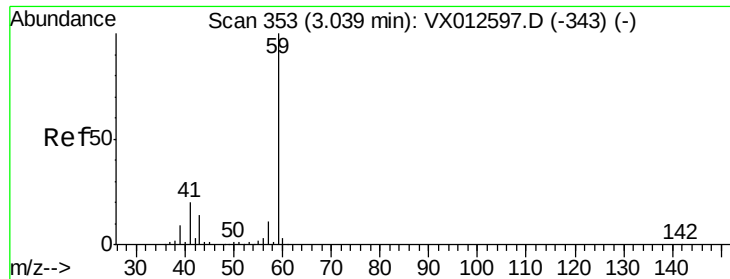
Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



Time-->

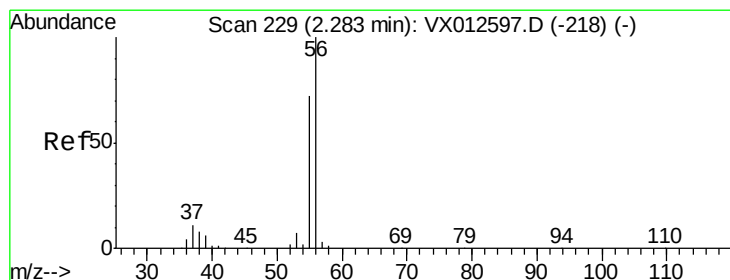
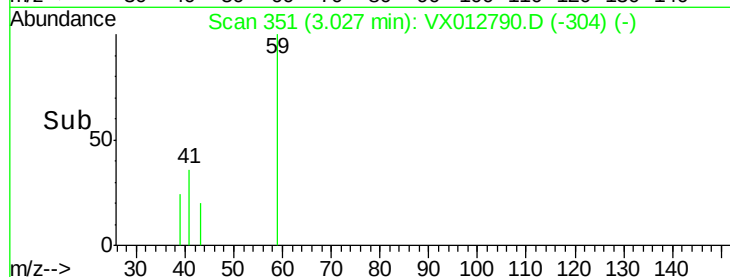
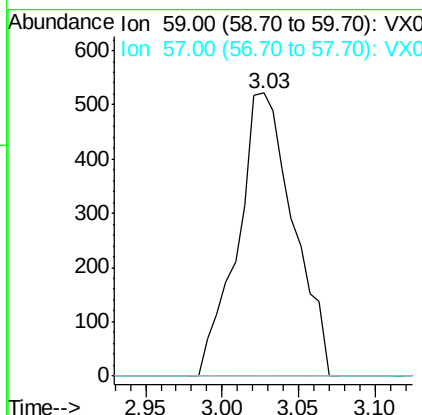
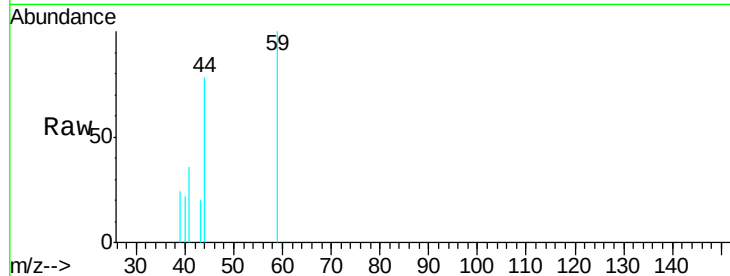




#11
Tert butyl alcohol
Concen: 2.176 ug/l
RT: 3.03 min Scan# 351
Delta R.T. -0.01 min
Lab File: VX012790.D
Acq: 03 Oct 2019 17:46

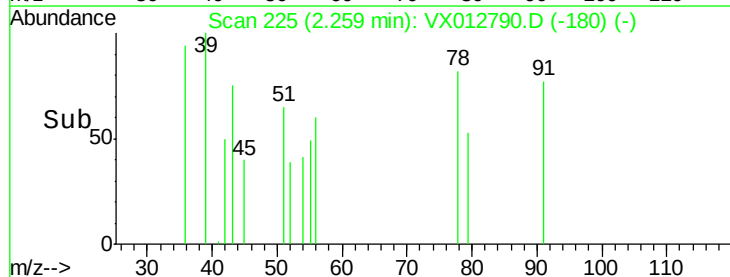
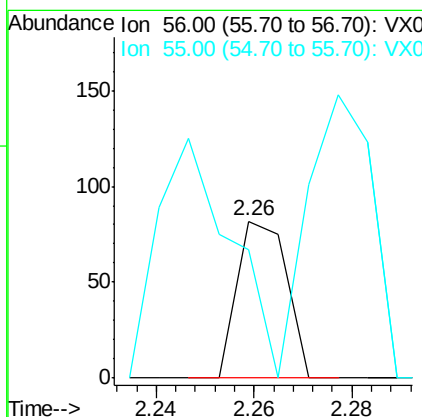
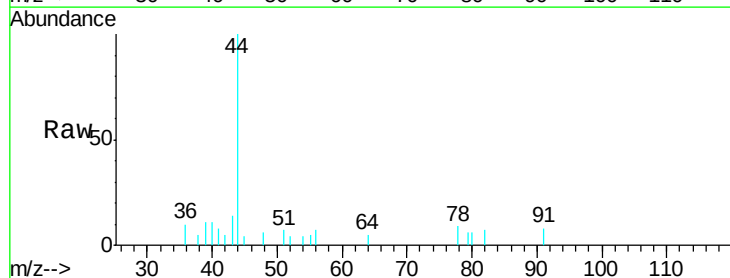
Instrument :
MSVOA_X
ClientSampleId :
SA-PZ133I-20190930

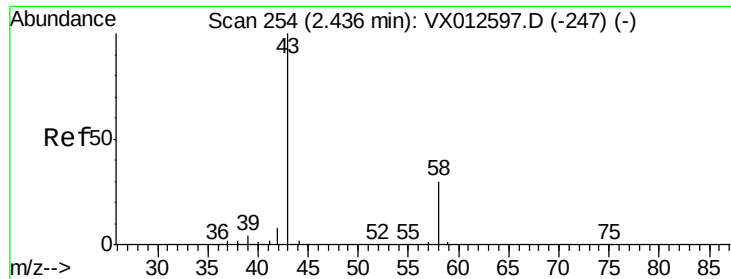
Tgt Ion: 59 Resp: 1321
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#13
Acrolein
Concen: 10.395 ug/l
RT: 2.26 min Scan# 225
Delta R.T. -0.02 min
Lab File: VX012790.D
Acq: 03 Oct 2019 17:46

Tgt Ion: 56 Resp: 57
Ion Ratio Lower Upper
56 100
55 228.1 55.8 83.8#





#16

Acetone

Concen: 6.117 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX012790.D

Acq: 03 Oct 2019 17:46

Instrument :

MSVOA_X

ClientSampleId :

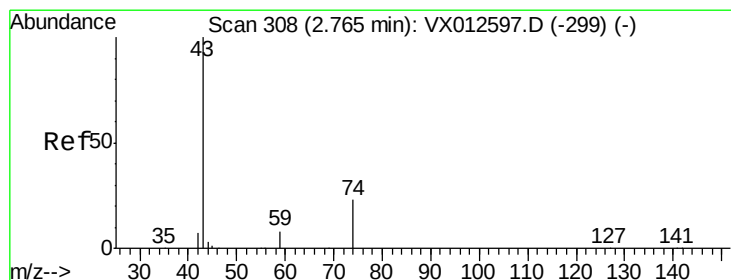
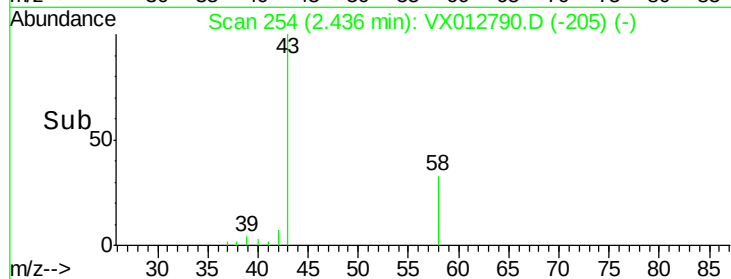
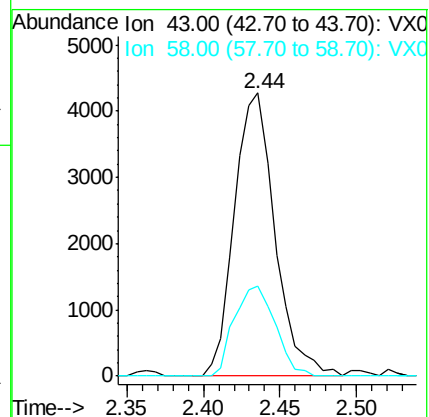
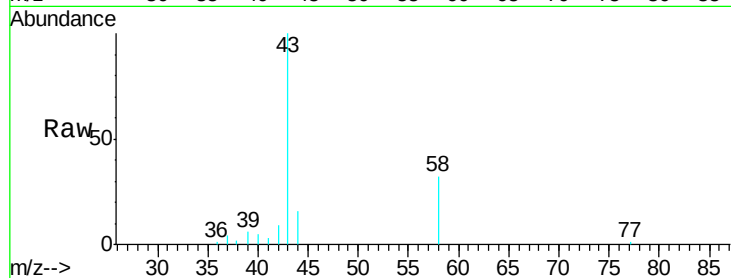
SA-PZ133I-20190930

Tgt Ion: 43 Resp: 7872

Ion Ratio Lower Upper

43 100

58 32.0 23.3 34.9



#18

Methyl Acetate

Concen: 3.182 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.17 min

Lab File: VX012790.D

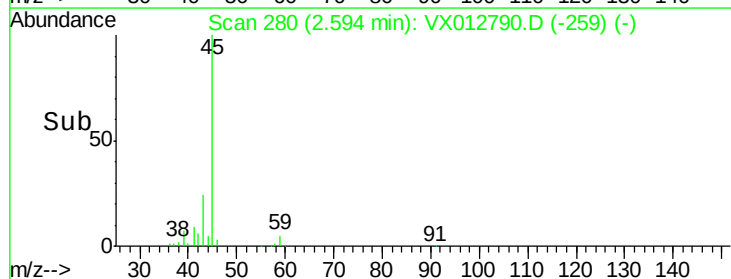
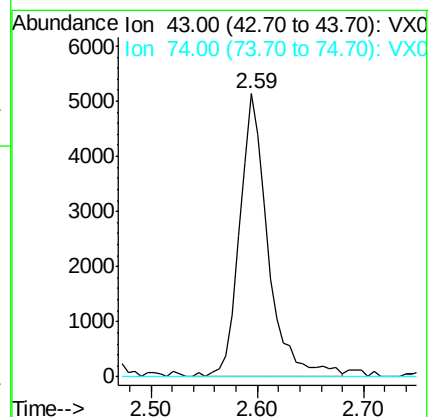
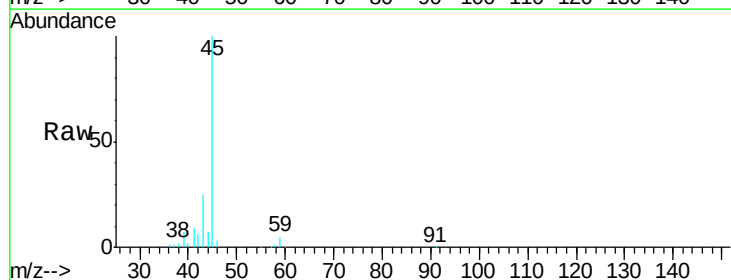
Acq: 03 Oct 2019 17:46

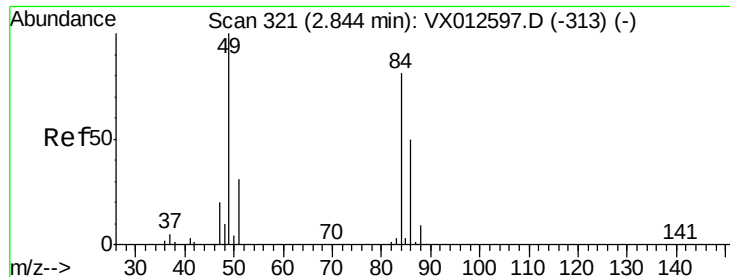
Tgt Ion: 43 Resp: 9642

Ion Ratio Lower Upper

43 100

74 0.0 17.7 26.5#





#20

Methylene Chloride

Concen: 0.257 ug/l

RT: 2.86 min Scan# 323

Delta R.T. 0.01 min

Lab File: VX012790.D

Acq: 03 Oct 2019 17:46

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ133I-20190930

Tgt Ion: 84 Resp: 560

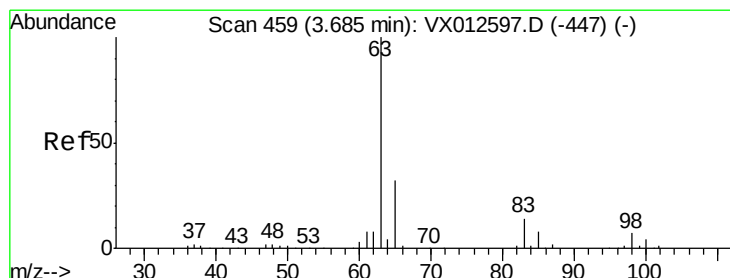
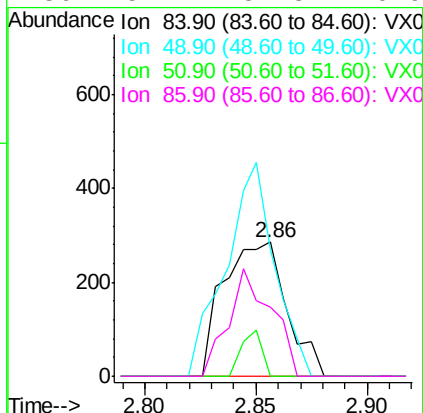
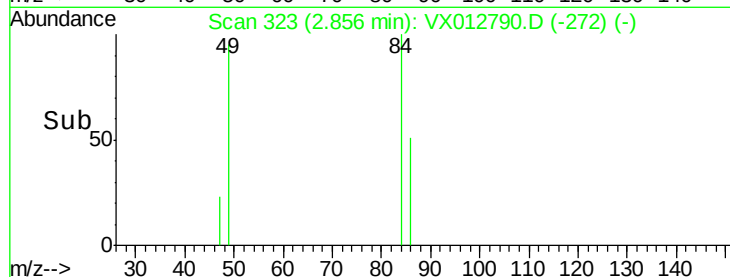
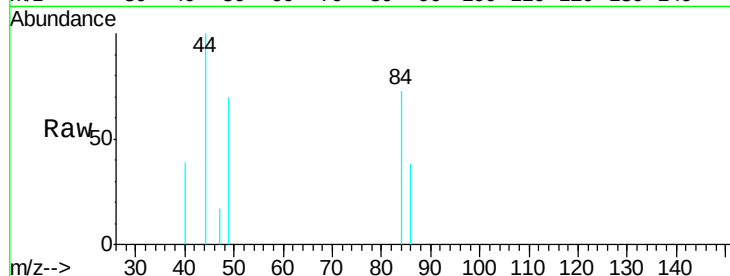
Ion Ratio Lower Upper

84 100

49 95.1 106.8 160.2#

51 0.0 32.3 48.5#

86 51.2 51.3 76.9#



#24

1,1-Dichloroethane

Concen: 0.376 ug/l

RT: 3.70 min Scan# 462

Delta R.T. 0.02 min

Lab File: VX012790.D

Acq: 03 Oct 2019 17:46

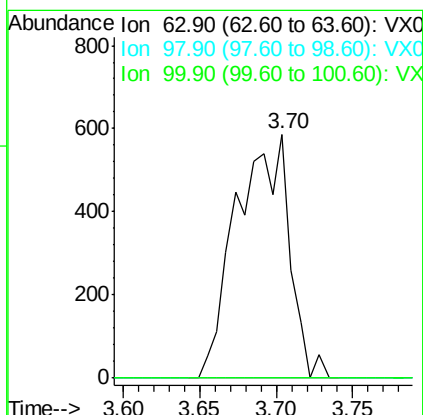
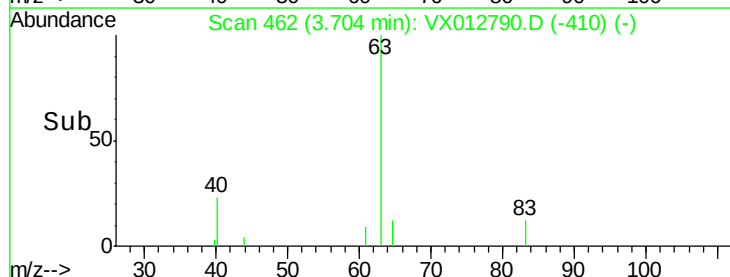
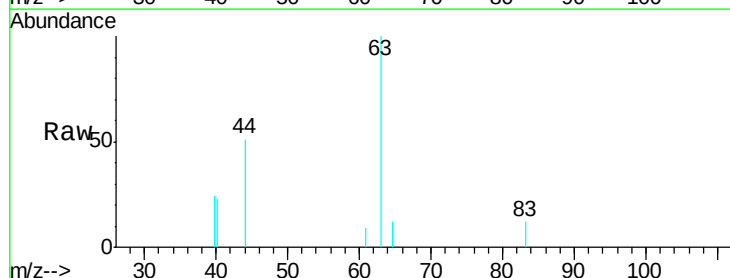
Tgt Ion: 63 Resp: 1405

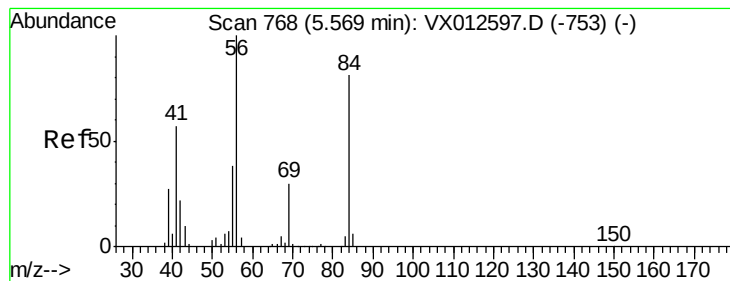
Ion Ratio Lower Upper

63 100

98 0.0 3.9 11.7#

100 0.0 2.3 6.9#





#31

Cyclohexane

Concen: 1.119 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.08 min

Lab File: VX012790.D

Acq: 03 Oct 2019 17:46

Instrument :

MSVOA_X

ClientSampleId :

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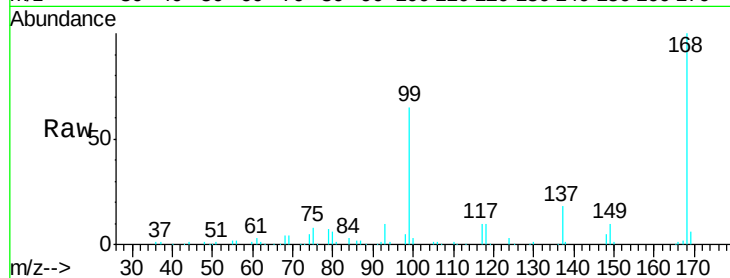
Tgt Ion: 56 Resp: 3784

Ion Ratio Lower Upper

56 100

69 189.2 25.0 37.6#

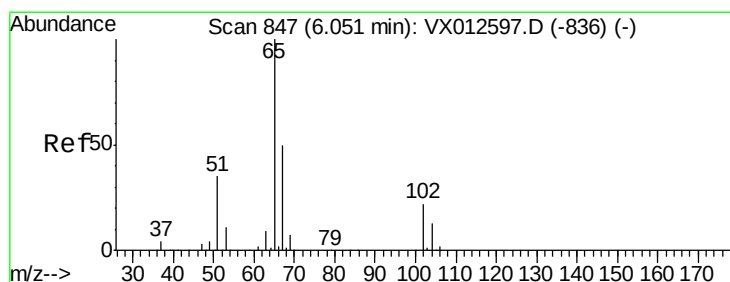
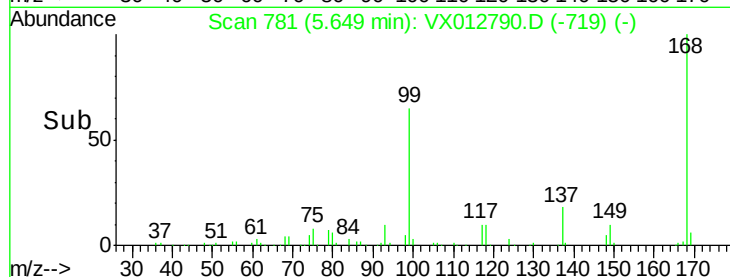
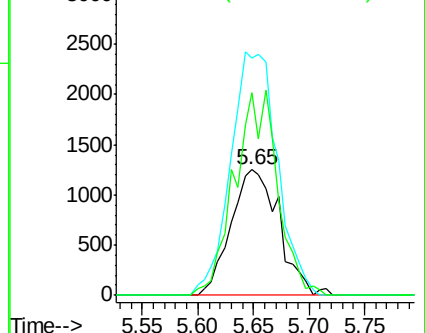
84 161.4 66.4 99.6#



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: 48.491 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX012790.D

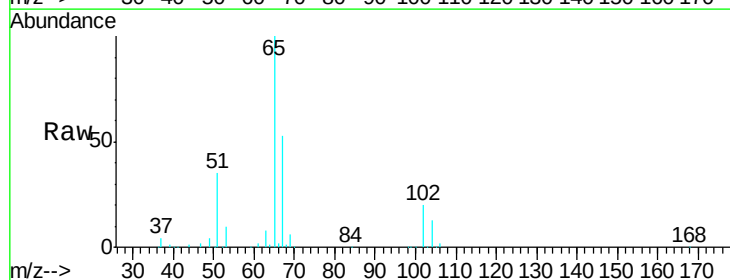
Acq: 03 Oct 2019 17:46

Tgt Ion: 65 Resp: 117820

Ion Ratio Lower Upper

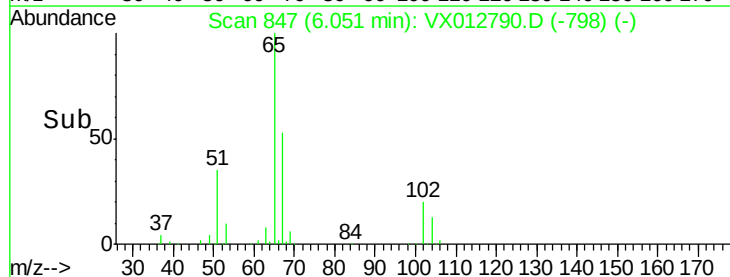
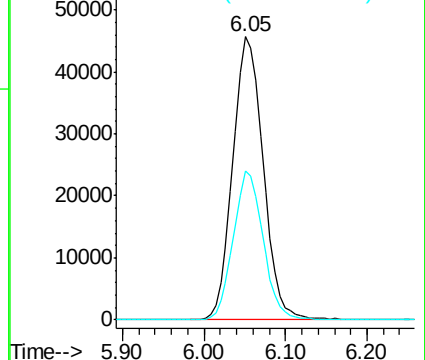
65 100

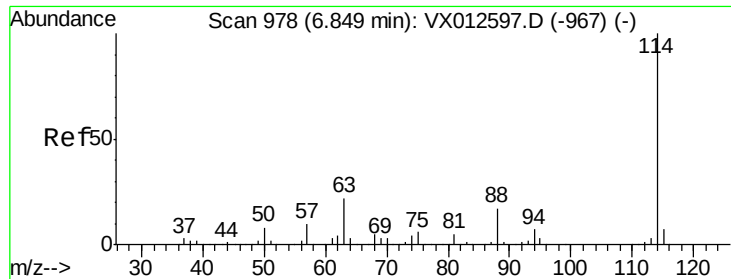
67 51.3 0.0 101.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

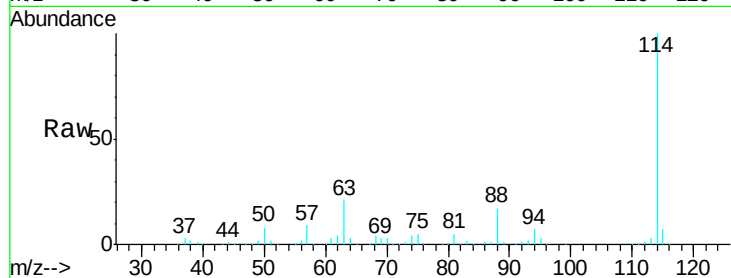




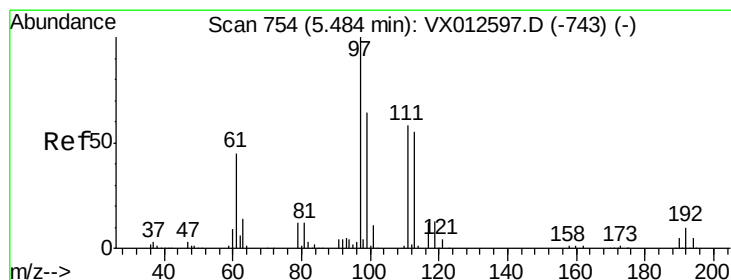
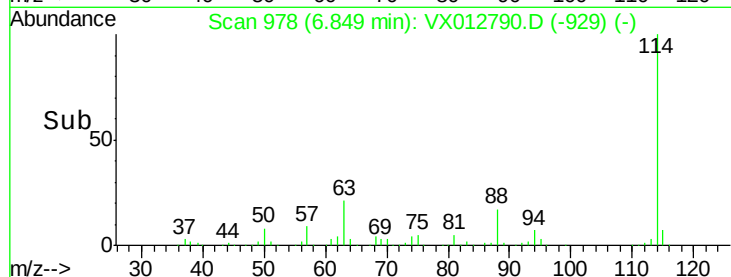
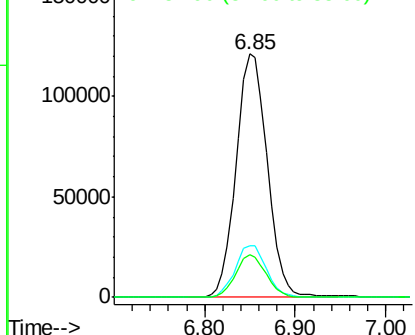
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012790.D
 Acq: 03 Oct 2019 17:46

Instrument :
 MSVOA_X
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 SA-PZ133I-20190930

Tgt Ion:114 Resp: 289493
 Ion Ratio Lower Upper
 114 100
 63 21.4 0.0 43.2
 88 17.5 0.0 33.2

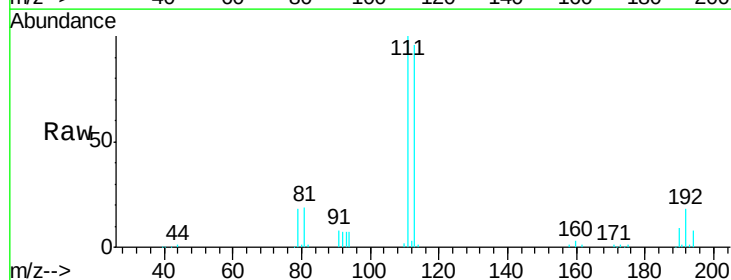


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

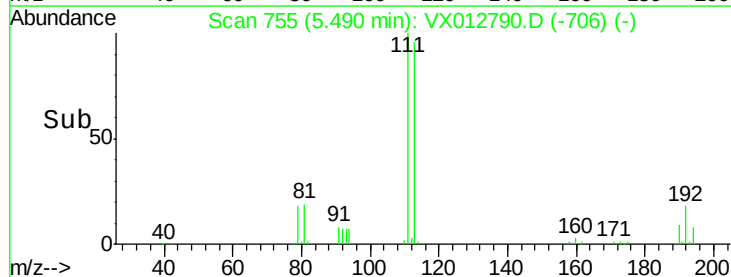
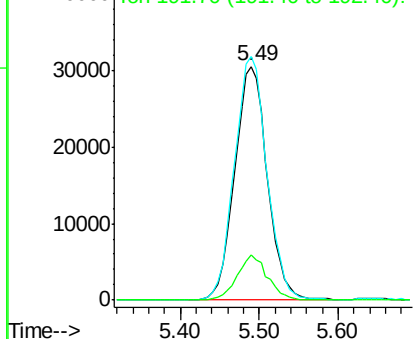


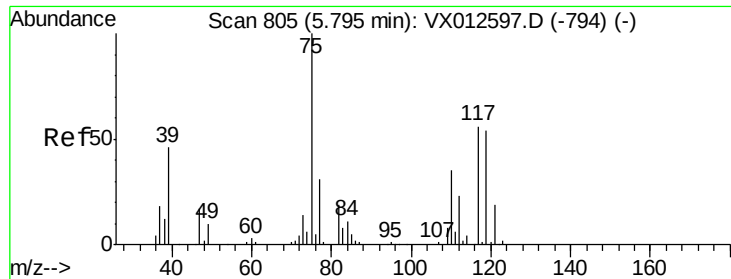
#35
 Dibromofluoromethane
 Concen: 50.890 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX012790.D
 Acq: 03 Oct 2019 17:46

Tgt Ion:113 Resp: 87738
 Ion Ratio Lower Upper
 113 100
 111 104.0 83.4 125.2
 192 18.0 14.4 21.6



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

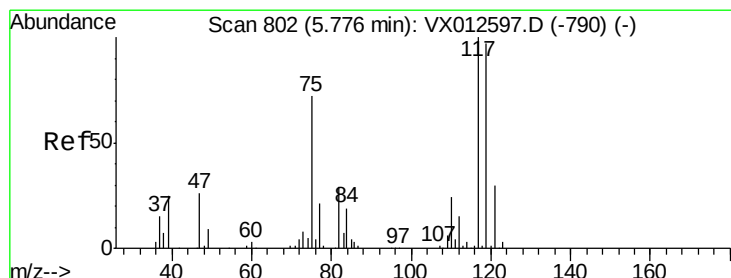
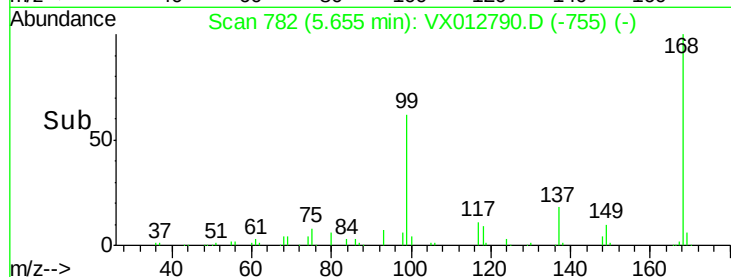
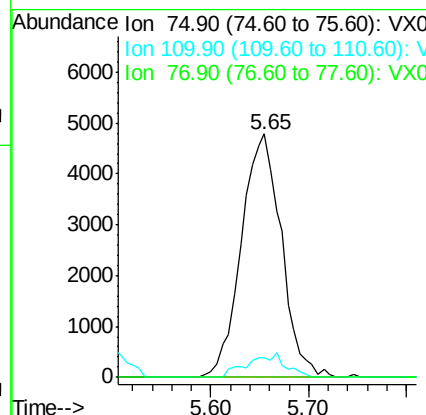
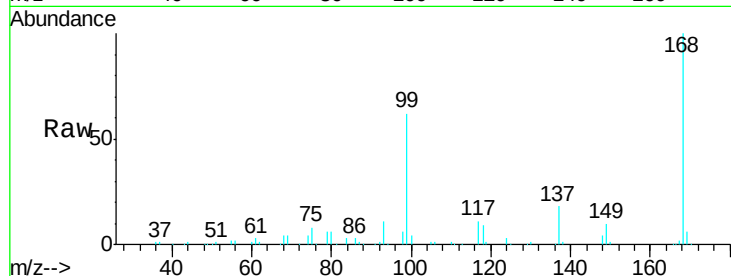




#36
 1,1-Dichloropropene
 Concen: 4.884 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.13 min
 Lab File: VX012790.D
 Acq: 03 Oct 2019 17:46

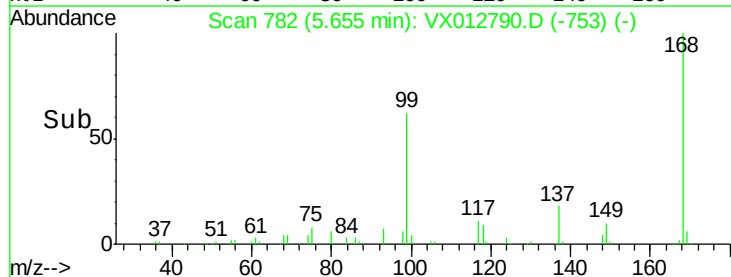
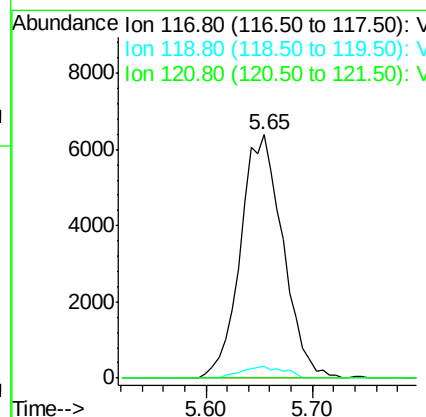
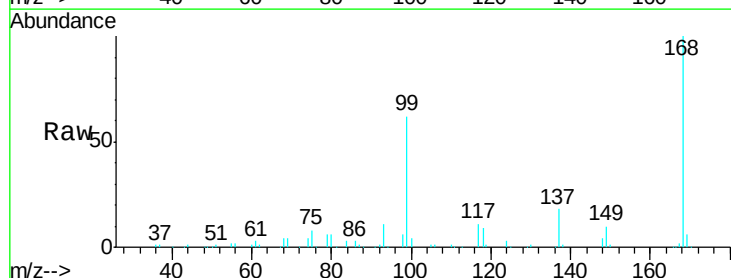
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ133I-20190930

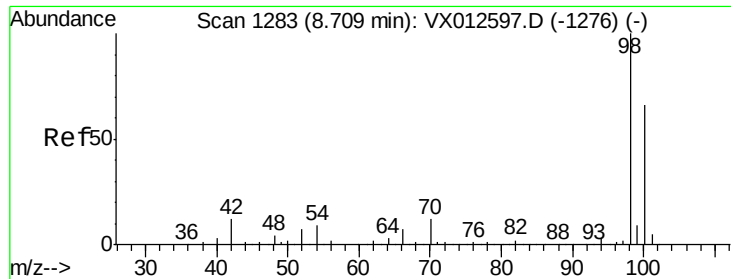
Tgt Ion: 75 Resp: 13629
 Ion Ratio Lower Upper
 75 100
 110 9.5 16.7 50.0#
 77 0.0 24.2 36.2#



#38
 Carbon Tetrachloride
 Concen: 6.302 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX012790.D
 Acq: 03 Oct 2019 17:46

Tgt Ion: 117 Resp: 17863
 Ion Ratio Lower Upper
 117 100
 119 4.9 75.7 113.5#
 121 0.0 24.2 36.4#

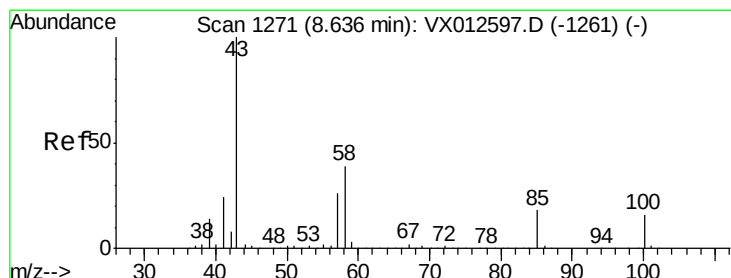
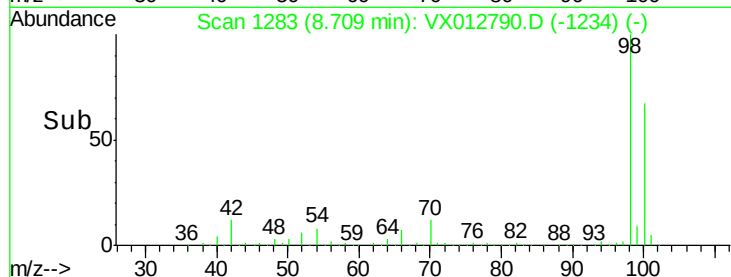
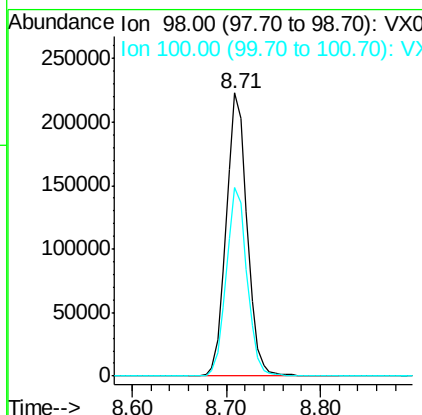
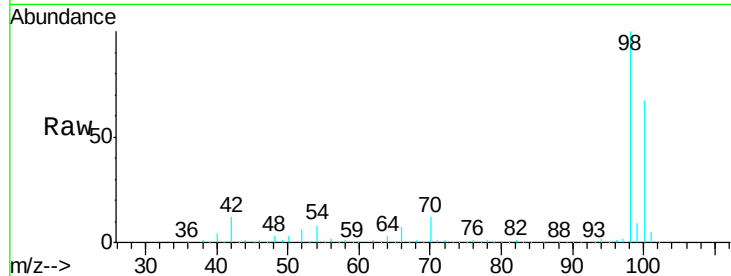




#50
Toluene-d8
Concen: 51.721 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX012790.D
Acq: 03 Oct 2019 17:46

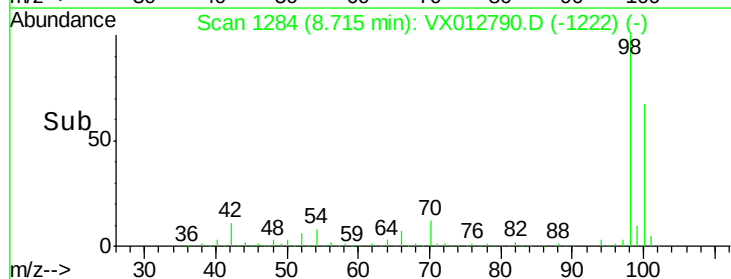
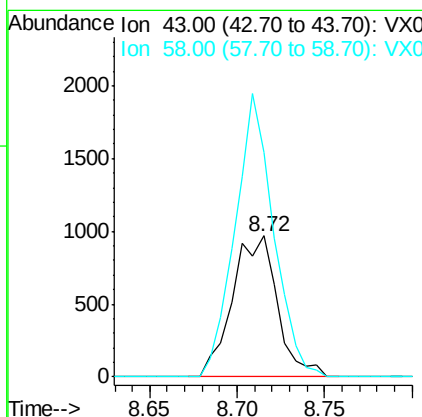
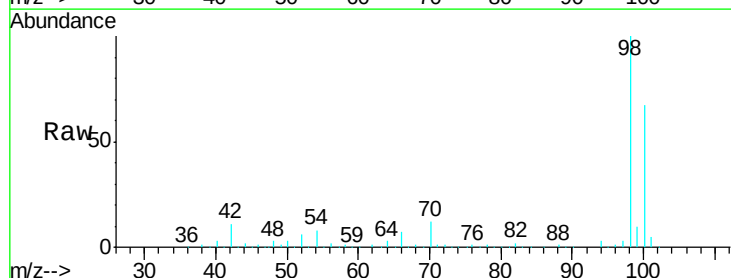
Instrument :
MSVOA_X
ClientSampleId :
SA-PZ133I-20190930

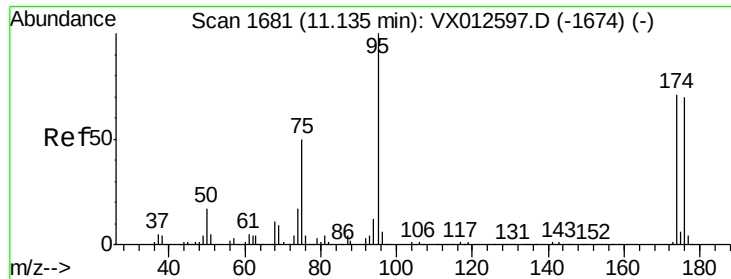
Tgt Ion: 98 Resp: 343397
Ion Ratio Lower Upper
98 100
100 66.3 53.4 80.2



#51
4-Methyl-2-Pentanone
Concen: 0.515 ug/l
RT: 8.72 min Scan# 1284
Delta R.T. 0.08 min
Lab File: VX012790.D
Acq: 03 Oct 2019 17:46

Tgt Ion: 43 Resp: 1735
Ion Ratio Lower Upper
43 100
58 171.6 29.8 44.6#





#62

4-Bromofluorobenzene

Concen: 42.147 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012790.D

Acq: 03 Oct 2019 17:46

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ1331-20190930

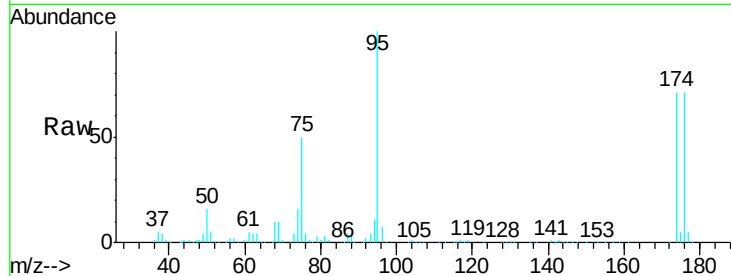
Tgt Ion: 95 Resp: 110032

Ion Ratio Lower Upper

95 100

174 69.6 0.0 140.0

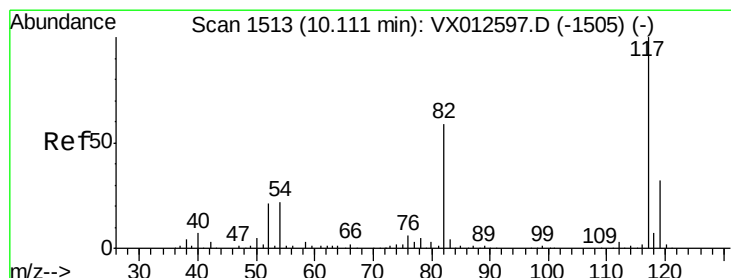
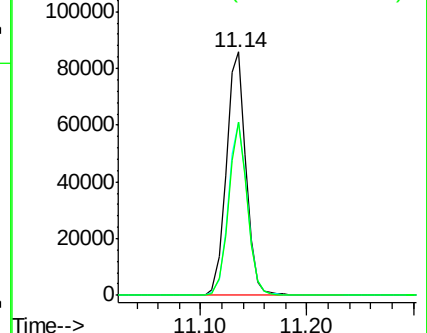
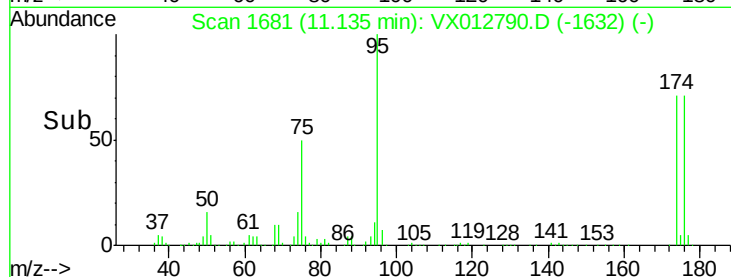
176 68.2 0.0 135.4



Abundance Ion 94.90 (94.60 to 95.60): VX012790.D (-1632) (-)

Ion 173.80 (173.50 to 174.50): VX012790.D (-1632) (-)

Ion 175.80 (175.50 to 176.50): VX012790.D (-1632) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX012790.D

Acq: 03 Oct 2019 17:46

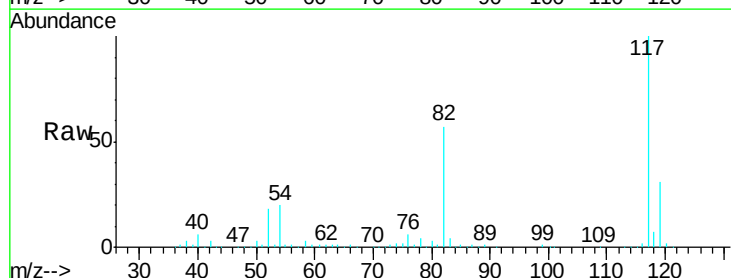
Tgt Ion: 117 Resp: 242511

Ion Ratio Lower Upper

117 100

82 56.9 45.9 68.9

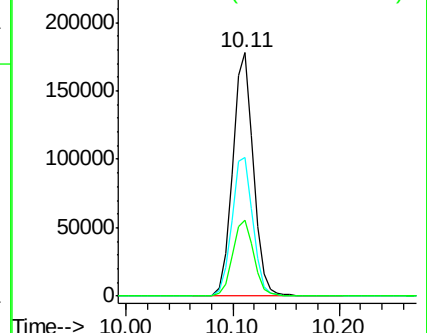
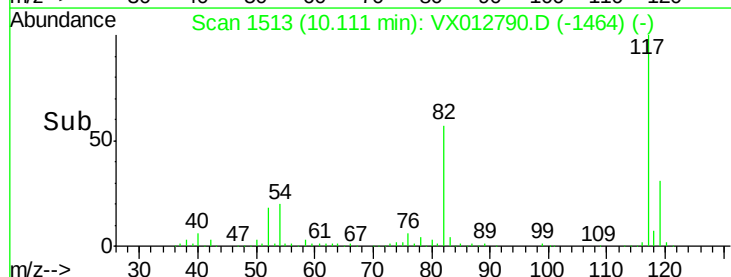
119 31.3 25.3 37.9

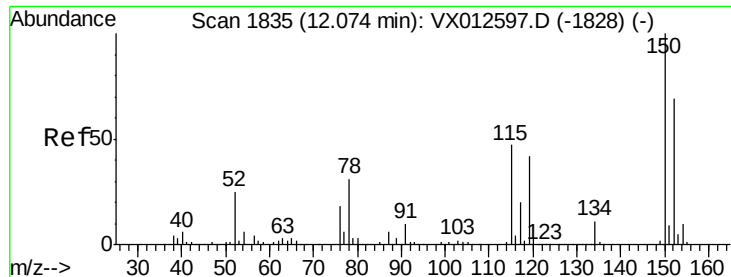


Abundance Ion 116.90 (116.60 to 117.60): VX012790.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX012790.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX012790.D (-1464) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012790.D

Acq: 03 Oct 2019 17:46

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ133I-20190930

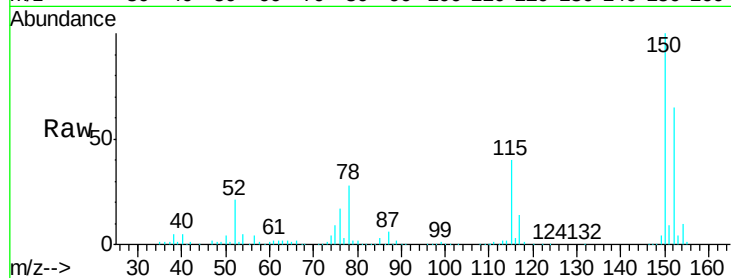
Tgt Ion: 152 Resp: 86053

Ion Ratio Lower Upper

152 100

115 64.5 44.1 132.3

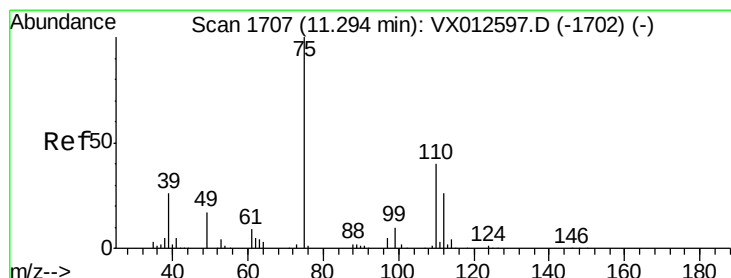
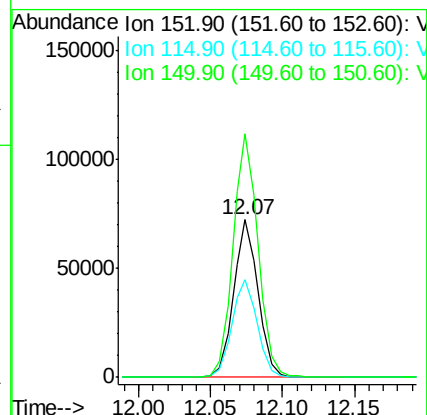
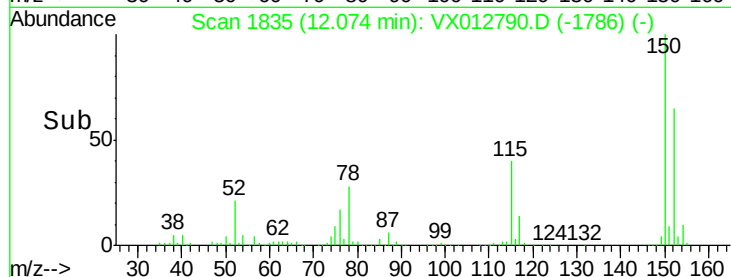
150 158.1 0.0 343.8



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: 24.828 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012790.D

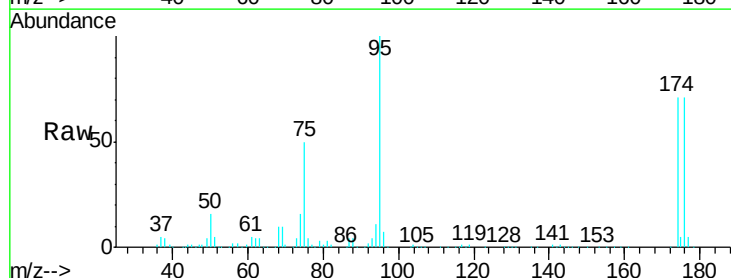
Acq: 03 Oct 2019 17:46

Tgt Ion: 75 Resp: 56517

Ion Ratio Lower Upper

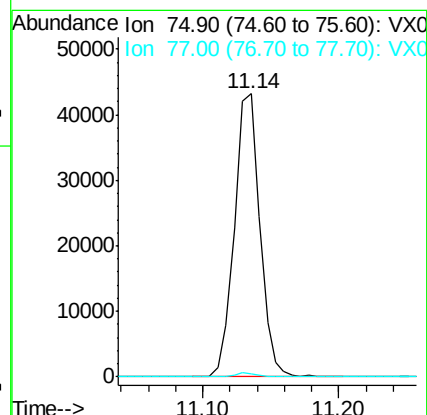
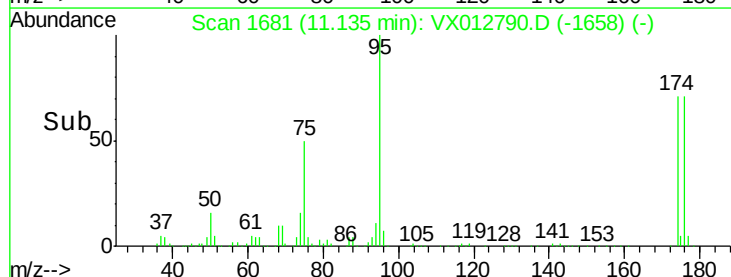
75 100

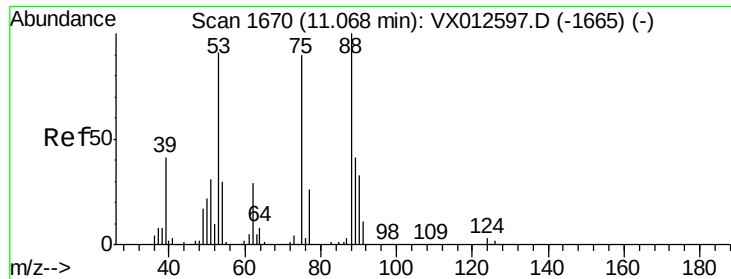
77 1.4 19.7 59.0#



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: 71.152 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012790.D

Acq: 03 Oct 2019 17:46

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ133I-20190930

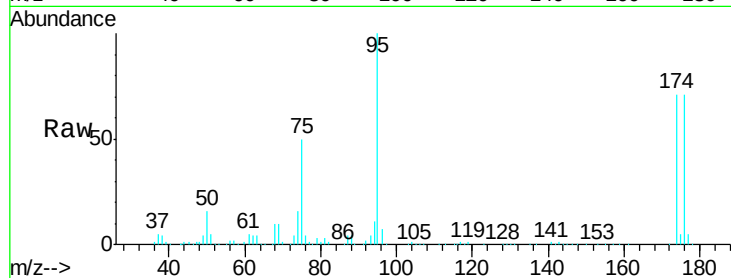
Tgt Ion: 75 Resp: 56517

Ion Ratio Lower Upper

75 100

53 0.1 83.6 125.4#

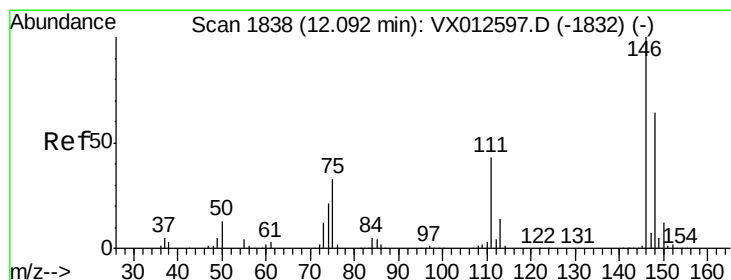
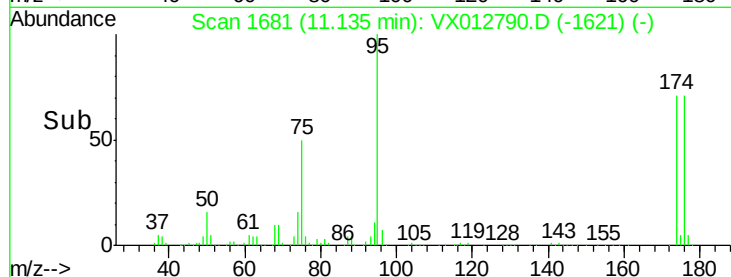
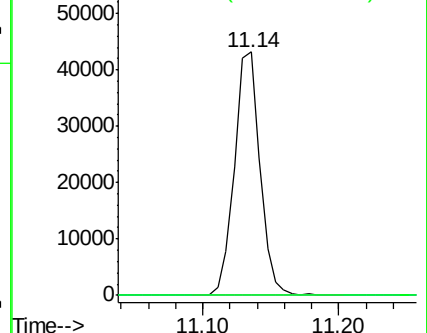
89 0.1 36.3 54.5#



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



#88

1,4-Dichlorobenzene

Concen: 0.209 ug/l

RT: 12.10 min Scan# 1839

Delta R.T. 0.01 min

Lab File: VX012790.D

Acq: 03 Oct 2019 17:46

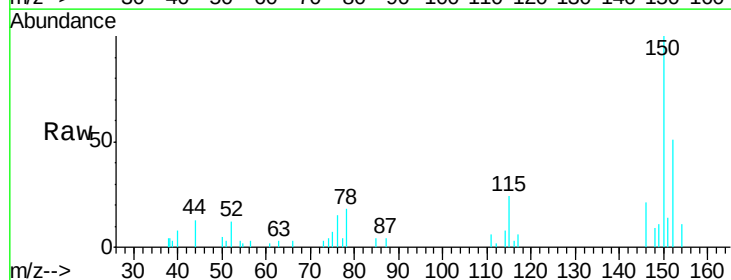
Tgt Ion: 146 Resp: 602

Ion Ratio Lower Upper

146 100

111 0.0 21.1 63.3#

148 128.1 32.1 96.5#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

