

Data Path : Y:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060418\
 Data File : VX002287.D
 Acq On : 05 Jun 2018 04:05
 Operator : JC/MD
 Sample : J3269-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 05 07:23:33 2018
 Quant Method : Y:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 05 03:22:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	261491	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	382486	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	358178	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	199723	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	185331	49.53	ug/l	0.00
Spiked Amount			Recovery	=	99.06%	
35) Dibromofluoromethane	5.51	113	133854	44.50	ug/l	0.00
Spiked Amount			Recovery	=	89.00%	
50) Toluene-d8	8.72	98	549336	47.65	ug/l	0.00
Spiked Amount			Recovery	=	95.30%	
62) 4-Bromofluorobenzene	11.14	95	196778	44.26	ug/l	0.00
Spiked Amount			Recovery	=	88.52%	

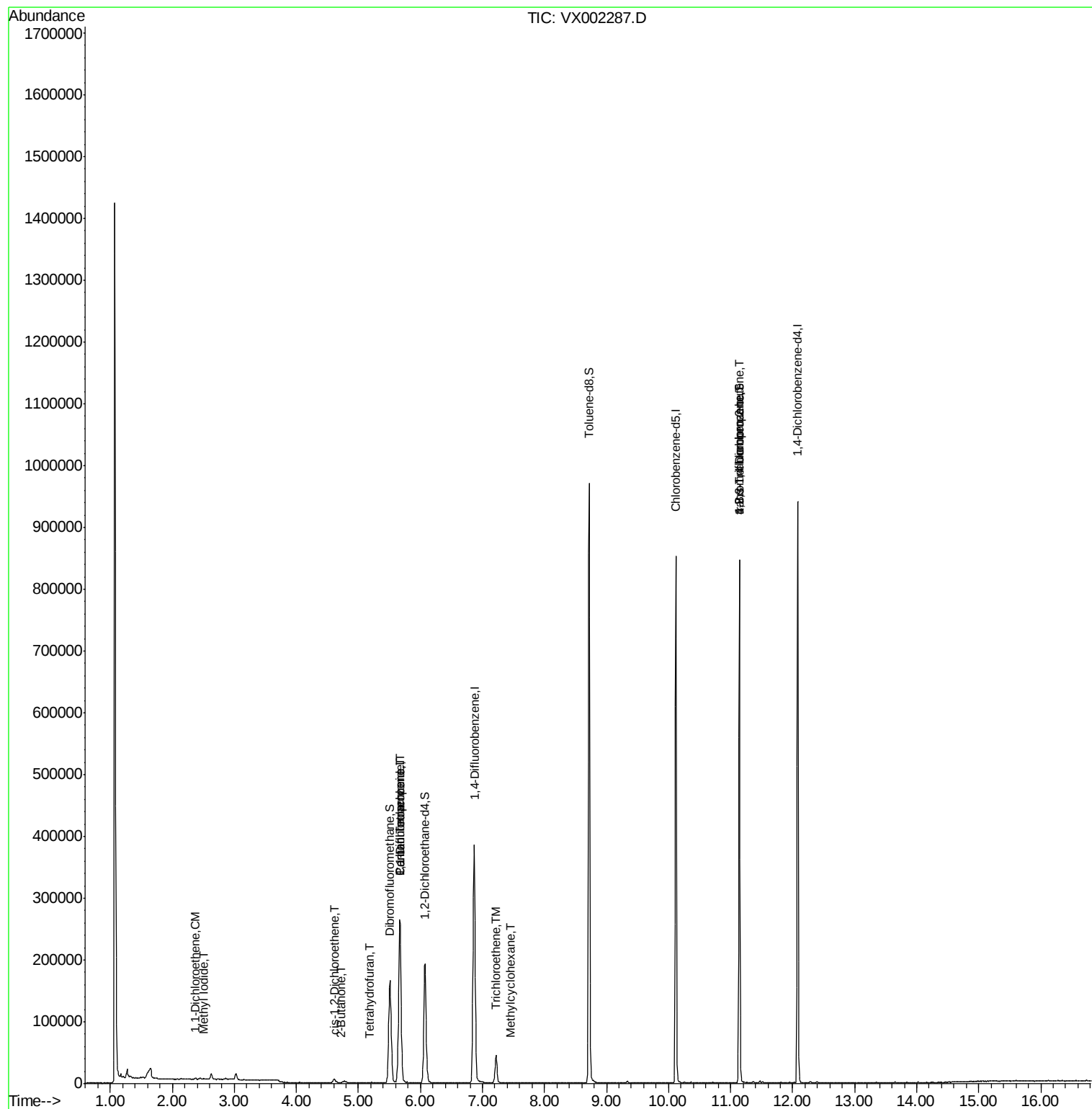
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	473	Below Cal	#	53
5) Bromomethane	1.64	94	1223	Below Cal		95
8) Diethyl Ether	2.20	74	44	Below Cal		72
10) Methyl Iodide	2.51	142	1173	0.30	ug/l	100
11) Tert butyl alcohol	3.03	59	6236	Below Cal	#	87
12) 1,1-Dichloroethene	2.37	96	773	0.28	ug/l	# 76
13) Acrolein	2.29	56	109	Below Cal		97
15) Acrylonitrile	3.15	53	236	Below Cal	#	28
16) Acetone	2.45	43	2009	Below Cal		97
18) Methyl Acetate	2.78	43	424	Below Cal	#	55
19) Methyl tert-butyl Ether	3.20	73	182	Below Cal		98
20) Methylene Chloride	2.86	84	667	Below Cal	#	79
22) Diisopropyl ether	3.90	45	223	Below Cal	#	35
25) 2-Butanone	4.72	43	1171	0.46	ug/l	# 52
27) cis-1,2-Dichloroethene	4.60	96	1686	0.51	ug/l	# 1
28) Bromochloromethane	5.03	49	24	Below Cal	#	13
29) Tetrahydrofuran	5.18	42	846	0.51	ug/l	# 36
36) 1,1-Dichloropropene	5.67	75	18794	4.67	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	24881	5.91	ug/l	# 16
39) Methylcyclohexane	7.46	83	191	0.30	ug/l	# 66
44) Trichloroethene	7.22	130	17732	5.18	ug/l	99
76) 1,2,3-Trichloropropane	11.14	75	106732	24.35	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	106732	85.37	ug/l	# 6

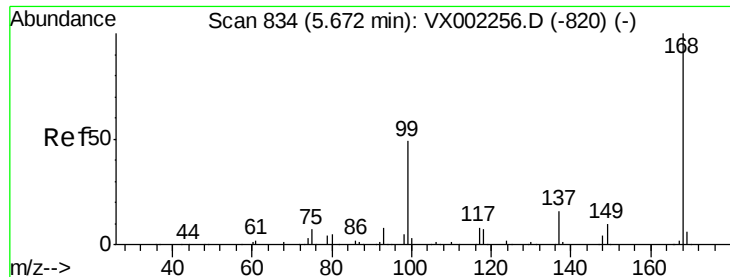
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jun 05 03:22:35 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.01 min

Lab File: VX002287.D

Acq: 05 Jun 2018 04:05

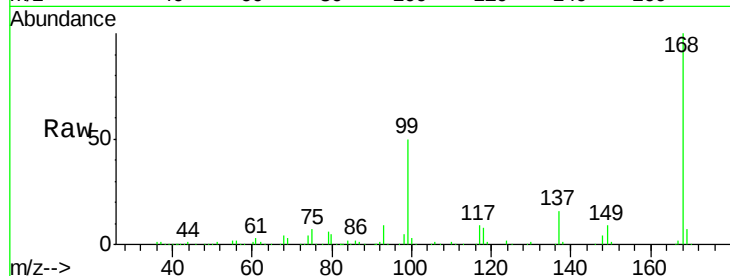
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 261491

Ion Ratio Lower Upper

168 100

99 49.9 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

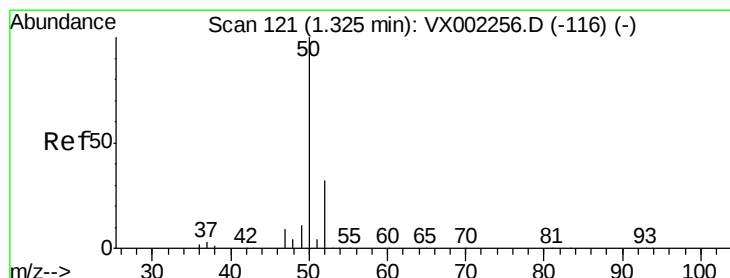
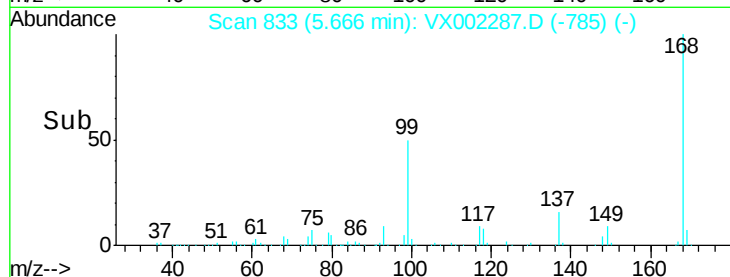
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002287.D

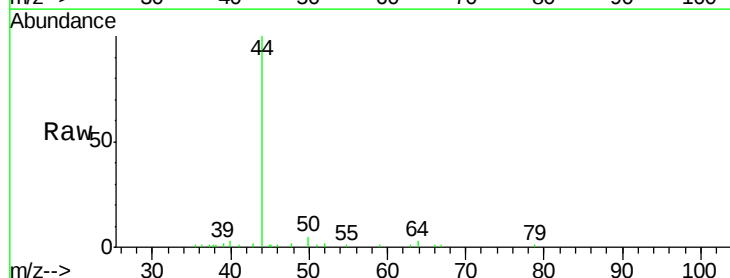
Acq: 05 Jun 2018 04:05

Tgt Ion: 50 Resp: 473

Ion Ratio Lower Upper

50 100

52 58.5 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

500

400

300

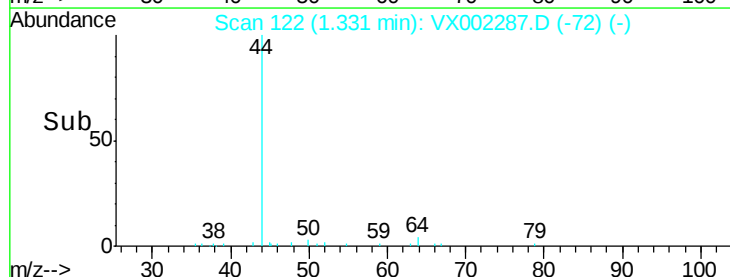
200

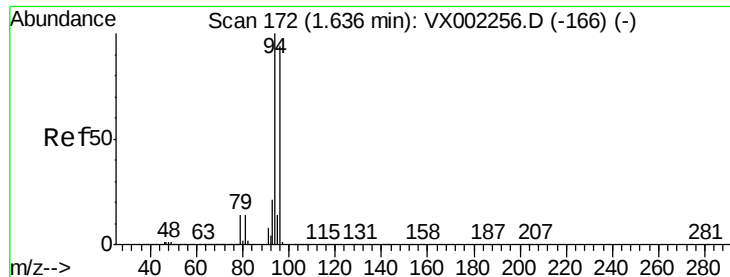
100

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX002287.D

Acq: 05 Jun 2018 04:05

Instrument :

MSVOA_X

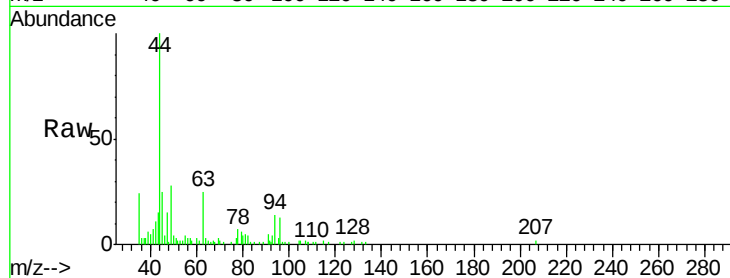
ClientSampled :

Tot Ion: 94 Resp: 1223

Ion Ratio Lower Upper

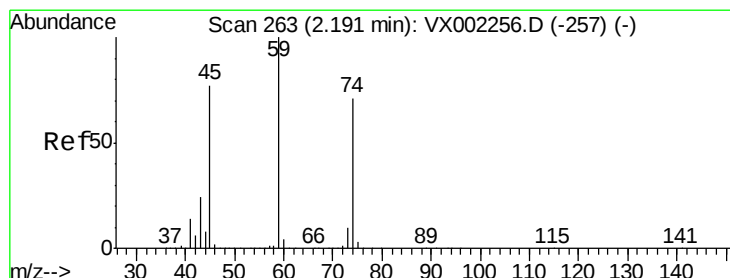
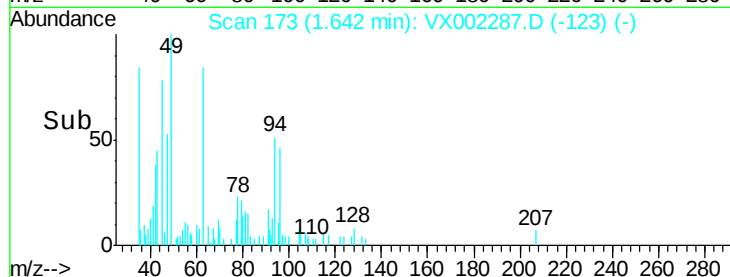
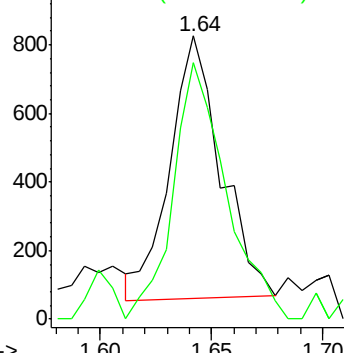
94 100

96 98.7 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#8

Diethyl Ether

Concen: Below Cal

RT: 2.20 min Scan# 264

Delta R.T. 0.01 min

Lab File: VX002287.D

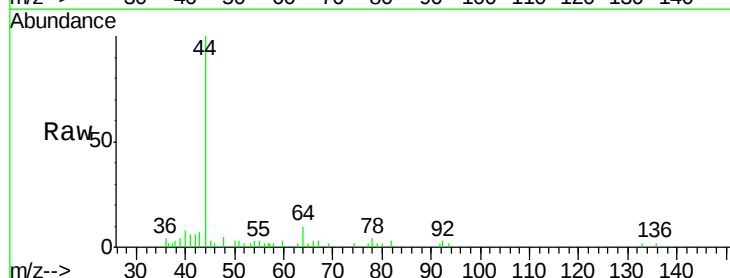
Acq: 05 Jun 2018 04:05

Tgt Ion: 74 Resp: 44

Ion Ratio Lower Upper

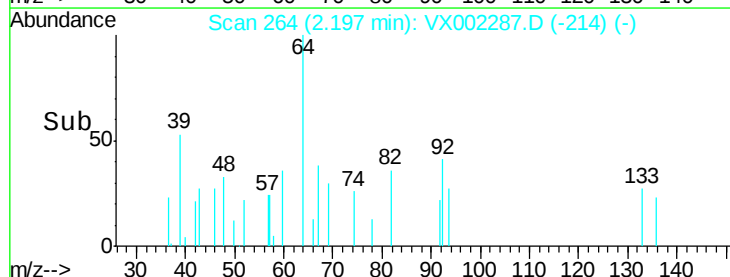
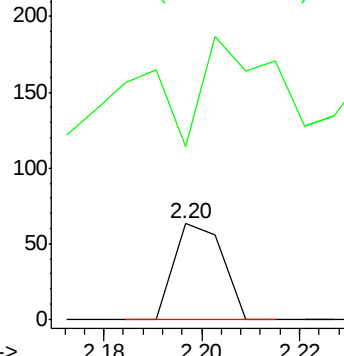
74 100

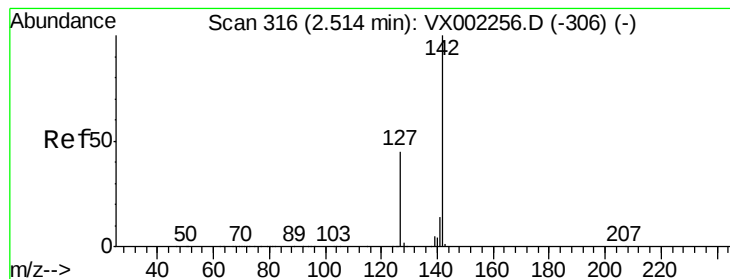
45 77.3 53.1 159.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0





#10

Methyl Iodide

Concen: 0.30 ug/l

RT: 2.51 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX002287.D

Acq: 05 Jun 2018 04:05

Instrument :

MSVOA_X

ClientSampled :

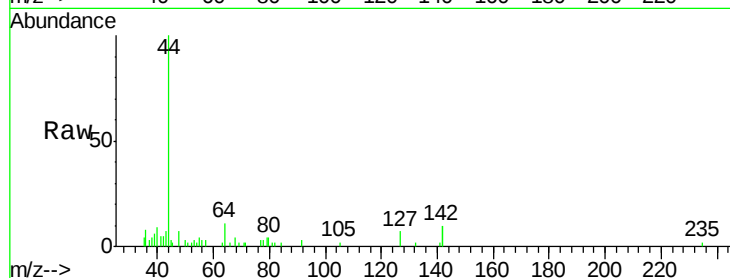
Tot Ion:142 Resp: 1173

Ion Ratio Lower Upper

142 100

127 46.0 36.6 55.0

141 14.3 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

2.51

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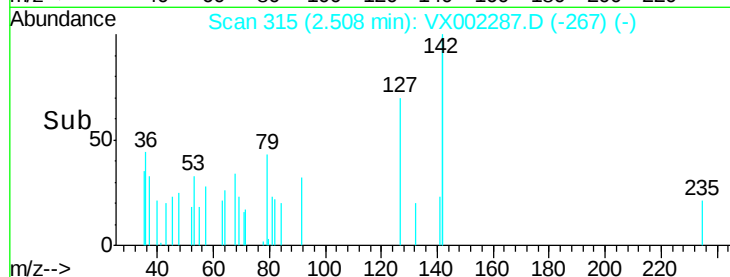
2.51

2.51

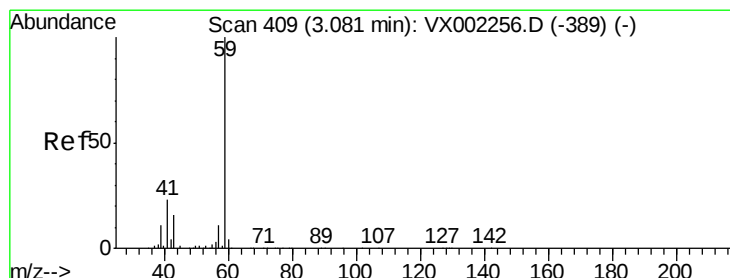
2.51

2.51

2.51



Time--> 2.45 2.50 2.55



#11

Tert butyl alcohol

Concen: Below Cal

RT: 3.03 min Scan# 400

Delta R.T. -0.05 min

Lab File: VX002287.D

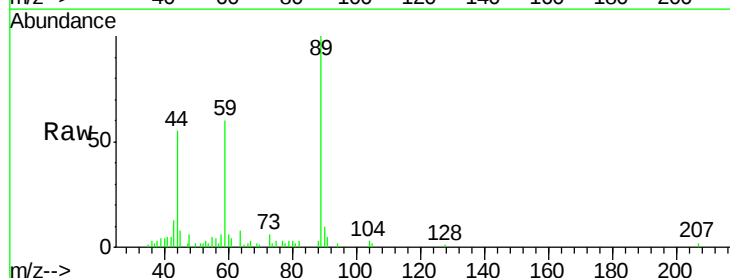
Acq: 05 Jun 2018 04:05

Tgt Ion: 59 Resp: 6236

Ion Ratio Lower Upper

59 100

57 5.5 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.03

3.03

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3.03

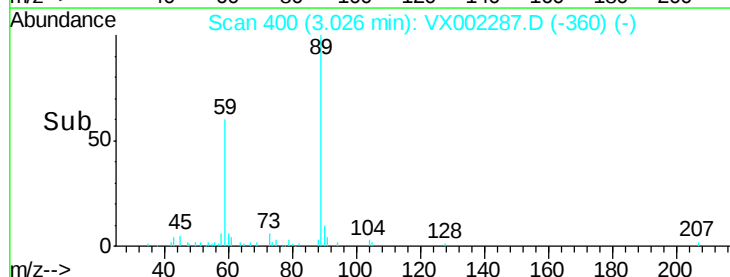
3.03

3.03

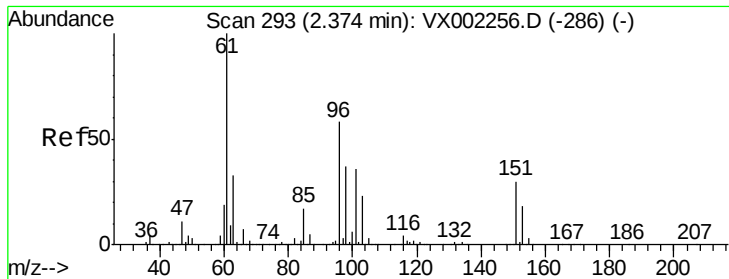
3.03

3.03

3.03



Time--> 2.90 2.95 3.00 3.05 3.10



#12

1,1-Dichloroethene

Concen: 0.28 ug/l

RT: 2.37 min Scan# 293

Delta R.T. -0.00 min

Lab File: VX002287.D

Acq: 05 Jun 2018 04:05

Instrument :

MSVOA_X

ClientSampleId :

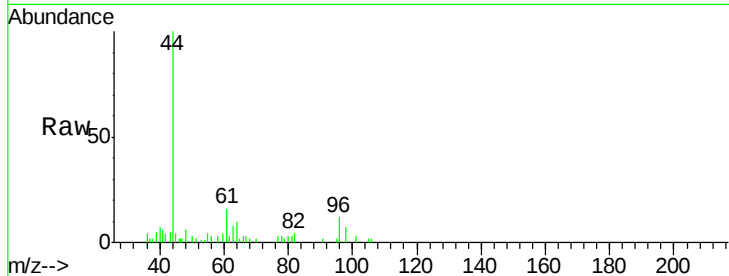
Tot Ion: 96 Resp: 773

Ion Ratio Lower Upper

96 100

61 130.6 137.9 206.9#

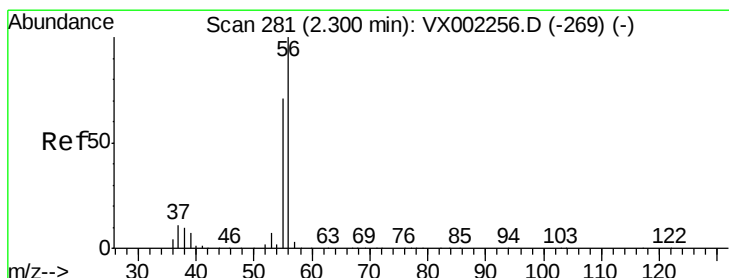
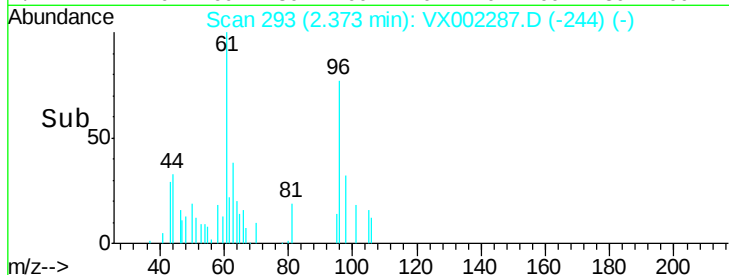
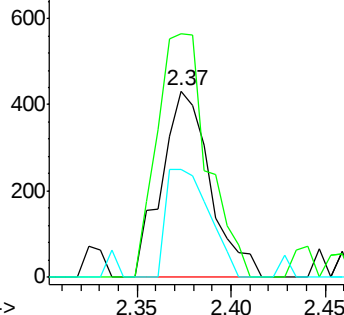
98 57.6 51.6 77.4



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 280

Delta R.T. -0.01 min

Lab File: VX002287.D

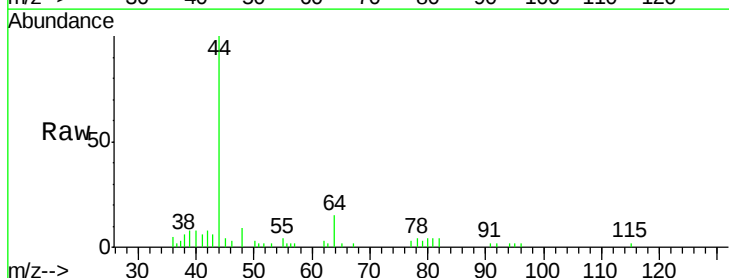
Acq: 05 Jun 2018 04:05

Tgt Ion: 56 Resp: 109

Ion Ratio Lower Upper

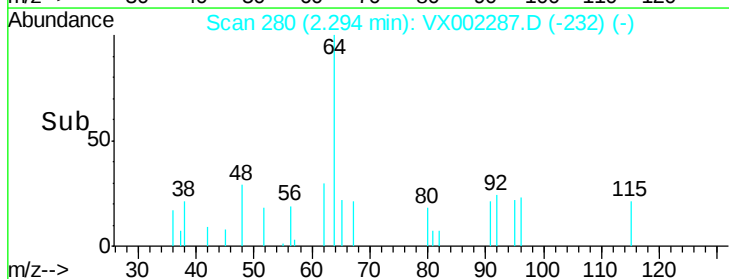
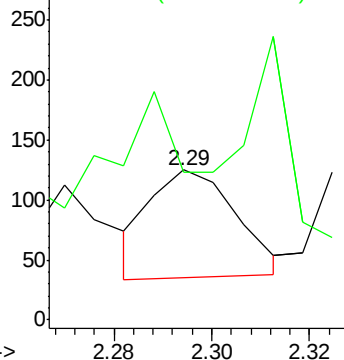
56 100

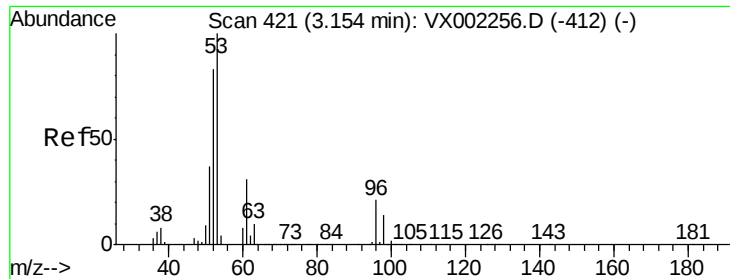
55 68.8 57.0 85.4



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#15

Acrylonitrile

Concen: Below Cal

RT: 3.15 min Scan# 421

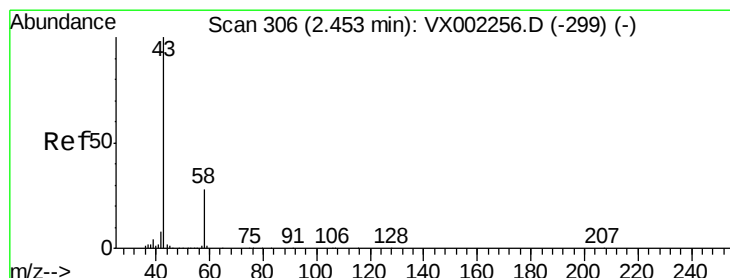
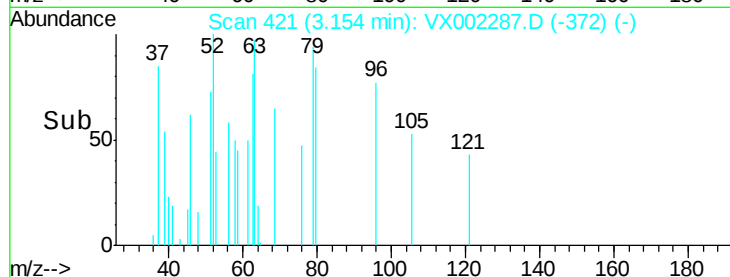
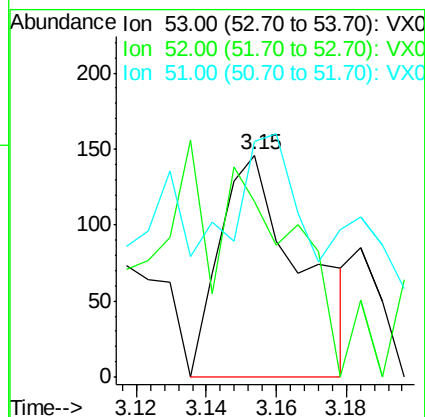
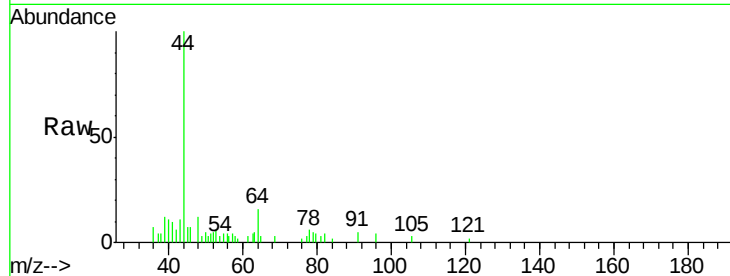
Delta R.T. 0.00 min

Lab File: VX002287.D

Acq: 05 Jun 2018 04:05

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	53	Resp:	236
Ion	Ratio	Lower	Upper
53	100		
52	0.0	66.7	100.1#
51	54.2	29.9	44.9#



#16

Acetone

Concen: Below Cal

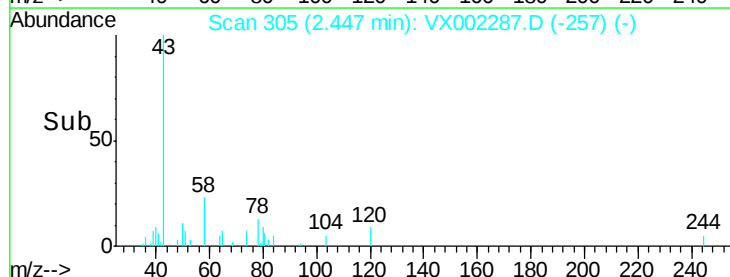
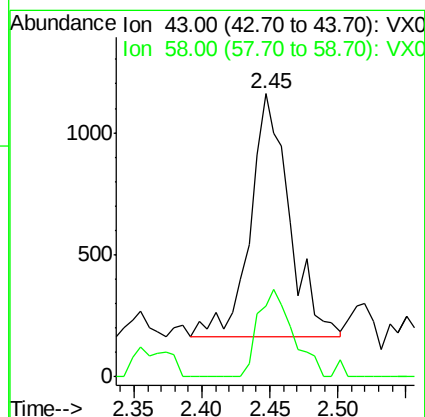
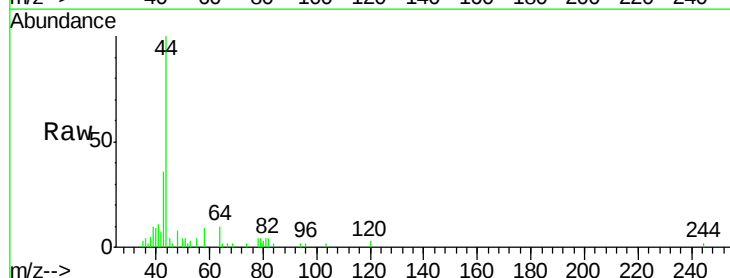
RT: 2.45 min Scan# 305

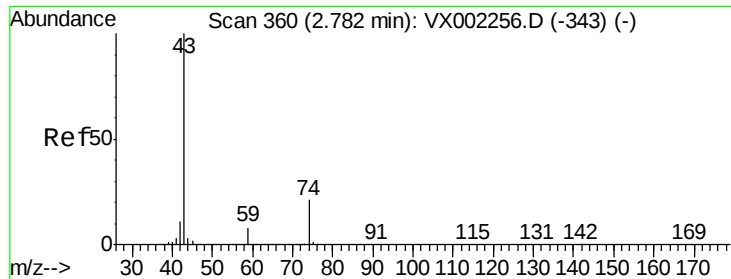
Delta R.T. -0.01 min

Lab File: VX002287.D

Acq: 05 Jun 2018 04:05

Tgt Ion:	43	Resp:	2009
Ion	Ratio	Lower	Upper
43	100		
58	29.1	22.1	33.1

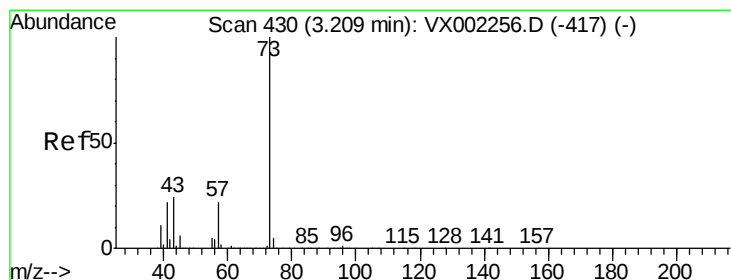
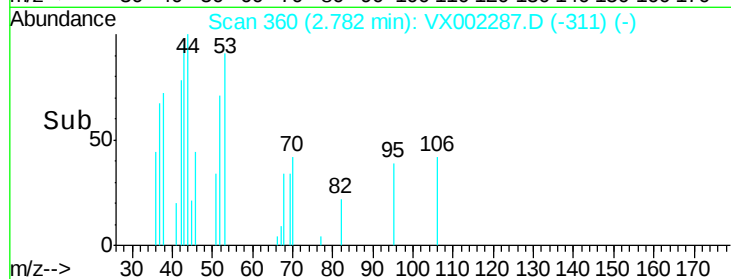
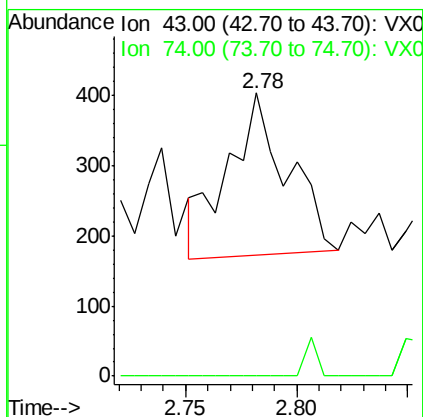
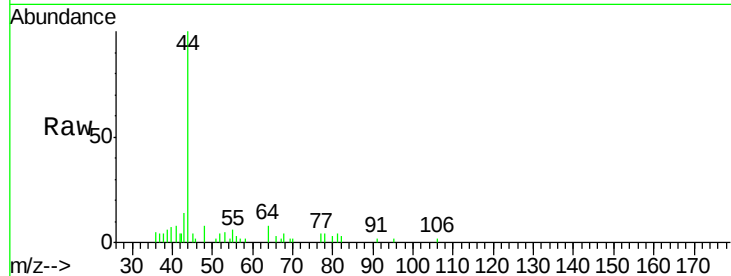




#18
Methyl Acetate
Concen: Below Cal
RT: 2.78 min Scan# 360
Delta R.T. -0.00 min
Lab File: VX002287.D
Acq: 05 Jun 2018 04:05

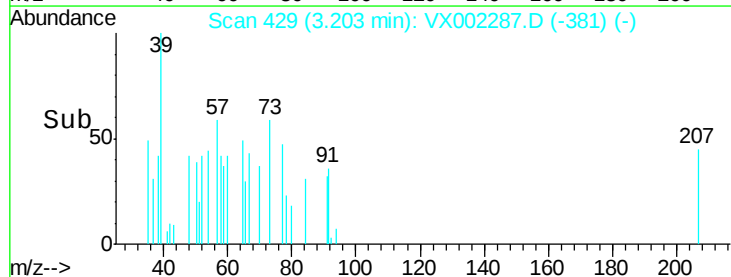
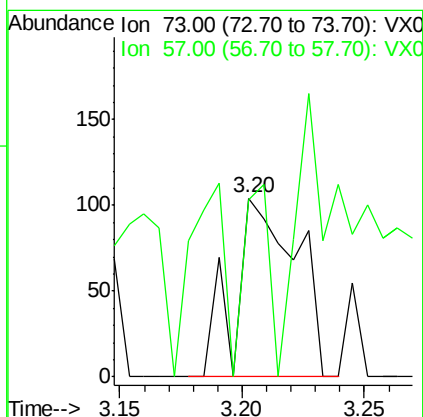
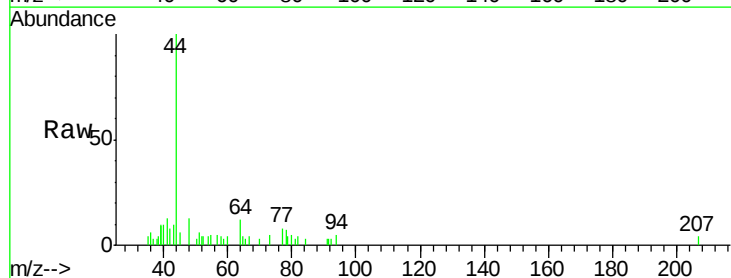
Instrument :
MSVOA_X
ClientSampled :

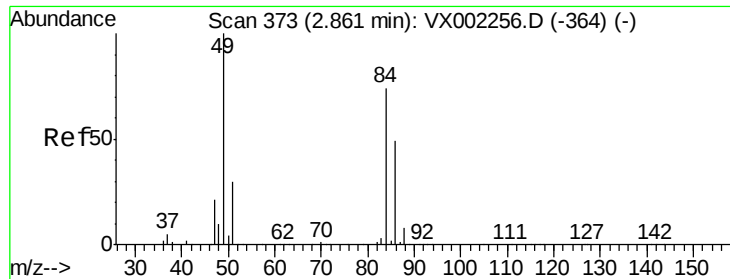
Tot Ion: 43 Resp: 424
Ion Ratio Lower Upper
43 100
74 0.0 16.7 25.1#



#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.20 min Scan# 429
Delta R.T. -0.01 min
Lab File: VX002287.D
Acq: 05 Jun 2018 04:05

Tgt Ion: 73 Resp: 182
Ion Ratio Lower Upper
73 100
57 23.1 17.7 26.5





#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 372

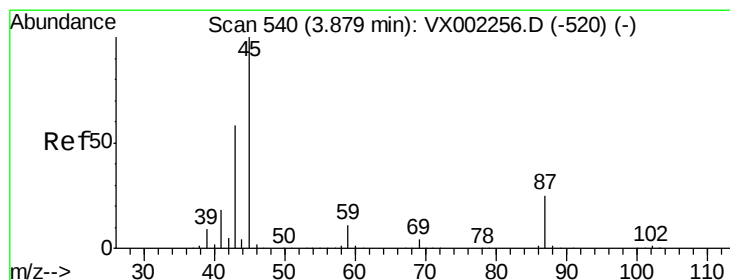
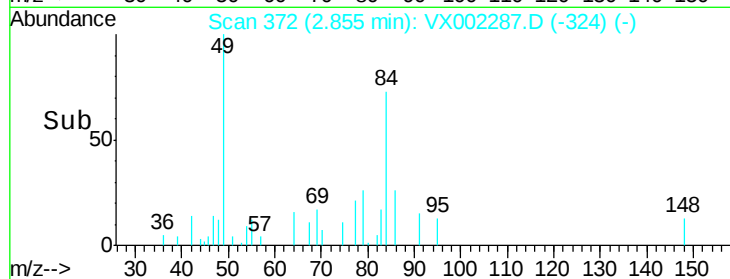
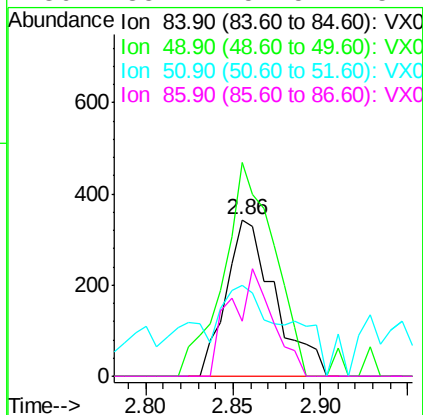
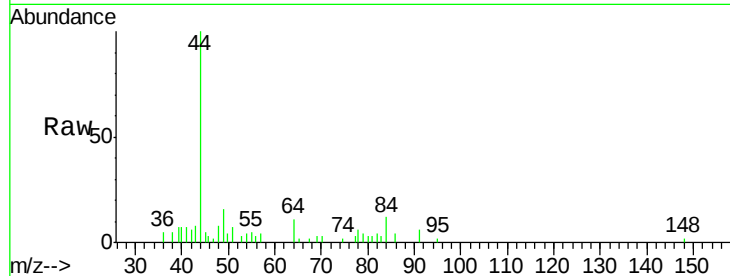
Delta R.T. -0.01 min

Lab File: VX002287.D

Acq: 05 Jun 2018 04:05

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	84	Resp:	667
Ion	Ratio	Lower	Upper
84	100		
49	118.3	107.8	161.6
51	30.8	32.8	49.2#
86	35.2	52.5	78.7#



#22

Diisopropyl ether

Concen: Below Cal

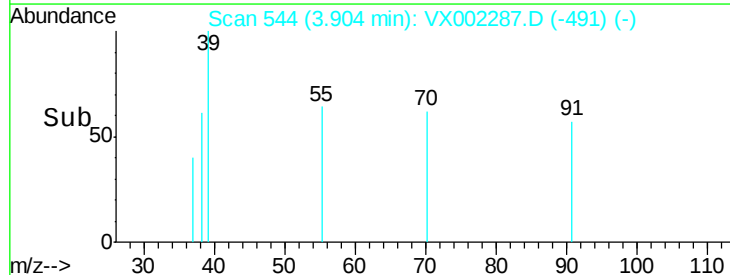
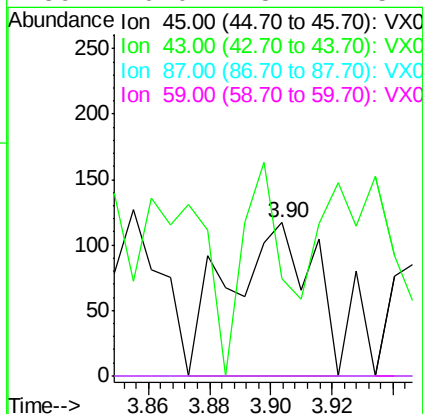
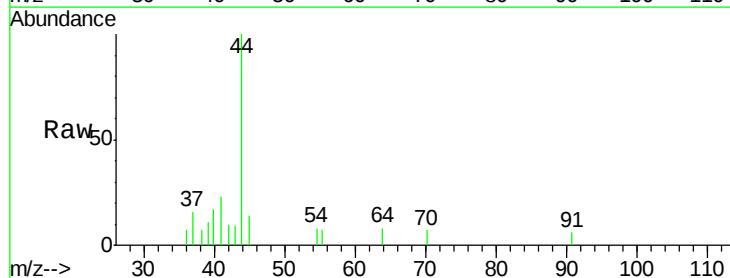
RT: 3.90 min Scan# 544

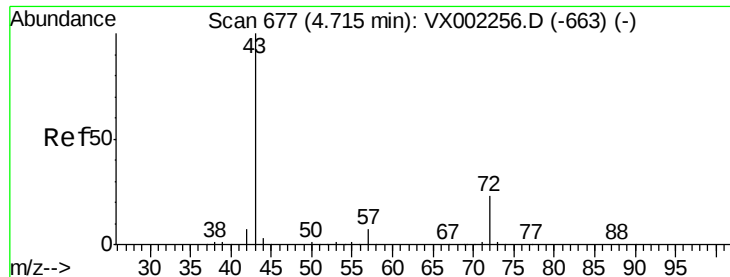
Delta R.T. 0.02 min

Lab File: VX002287.D

Acq: 05 Jun 2018 04:05

Tgt Ion:	45	Resp:	223
Ion	Ratio	Lower	Upper
45	100		
43	0.0	46.8	70.2#
87	0.0	20.2	30.4#
59	0.0	8.7	13.1#





#25

2-Butanone

Concen: 0.46 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX002287.D

Acq: 05 Jun 2018 04:05

Instrument :

MSVOA_X

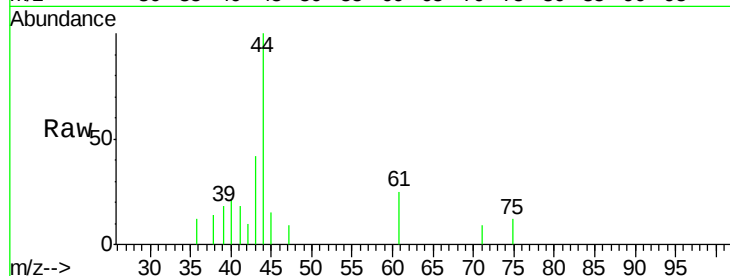
ClientSampled :

Tot Ion: 43 Resp: 1171

Ion Ratio Lower Upper

43 100

72 0.0 18.5 27.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.72

250

200

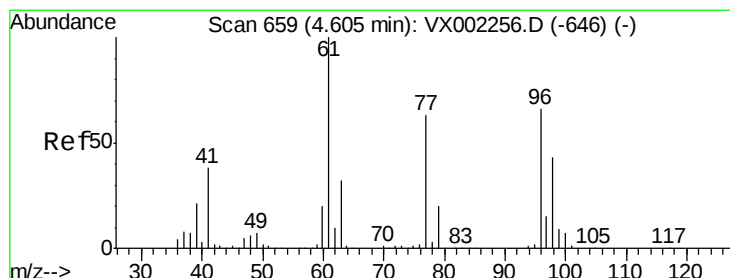
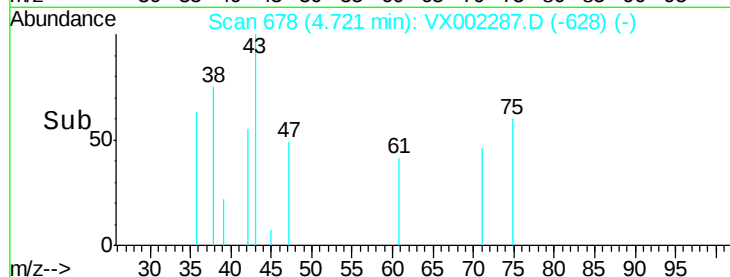
150

100

50

0

Time-->



#27

cis-1,2-Dichloroethene

Concen: 0.51 ug/l

RT: 4.60 min Scan# 659

Delta R.T. -0.00 min

Lab File: VX002287.D

Acq: 05 Jun 2018 04:05

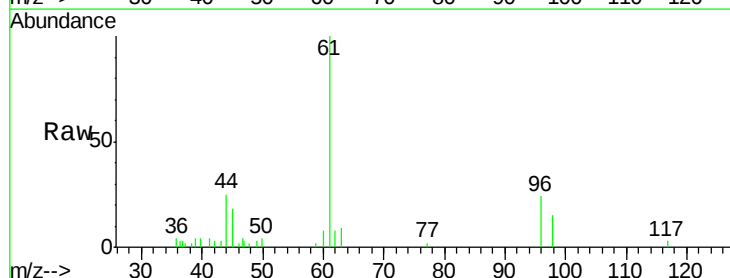
Tgt Ion: 96 Resp: 1686

Ion Ratio Lower Upper

96 100

61 576.4 0.0 330.2#

98 71.7 0.0 130.2



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

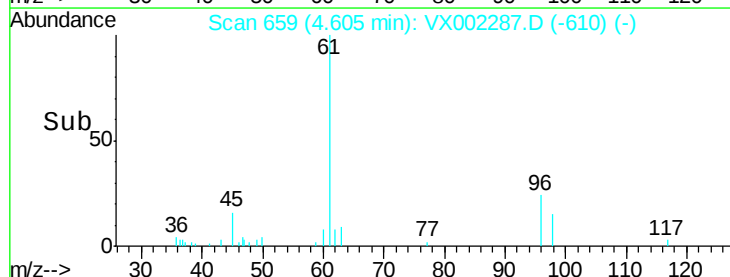
3000

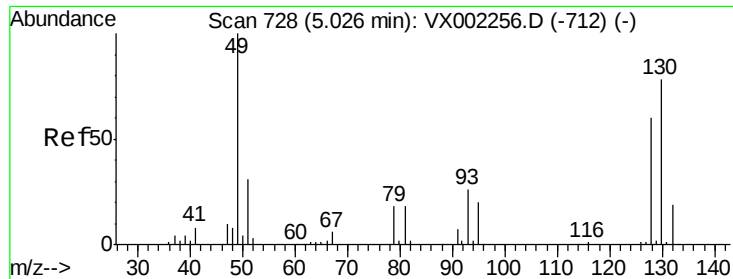
2000

1000

0

Time-->





#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 729

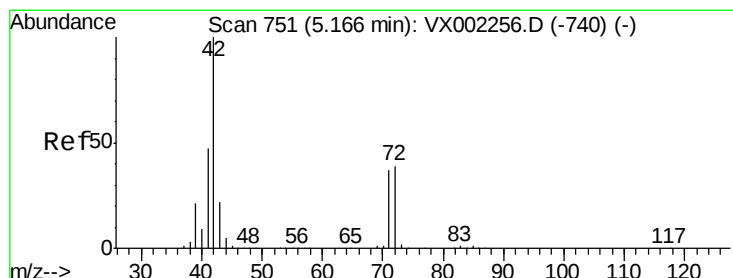
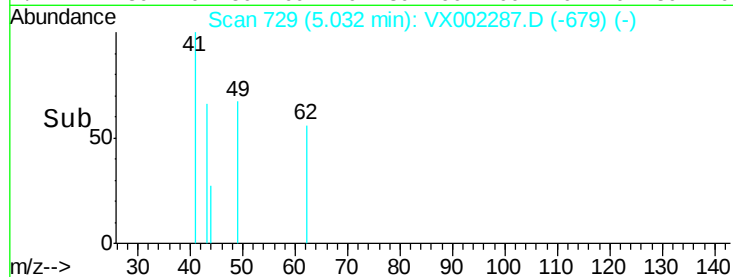
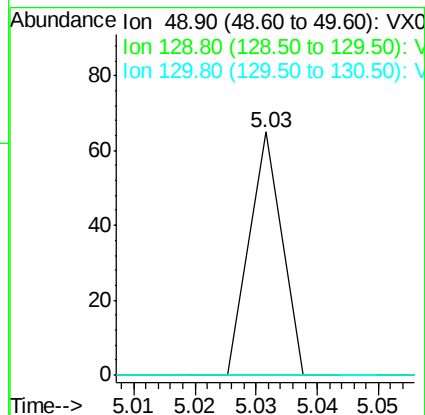
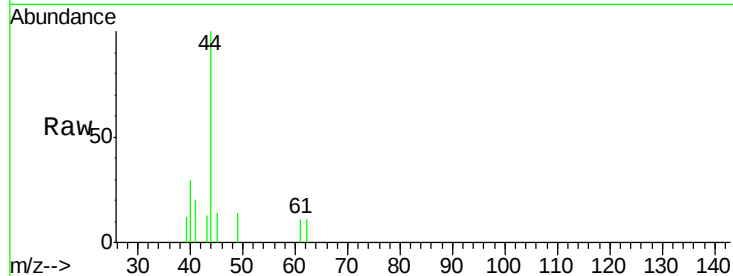
Delta R.T. 0.01 min

Lab File: VX002287.D

Acq: 05 Jun 2018 04:05

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 49 Resp: 24
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 0.0 61.2 91.8#



#29

Tetrahydrofuran

Concen: 0.51 ug/l

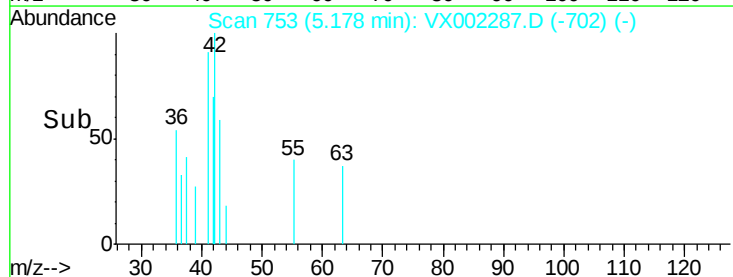
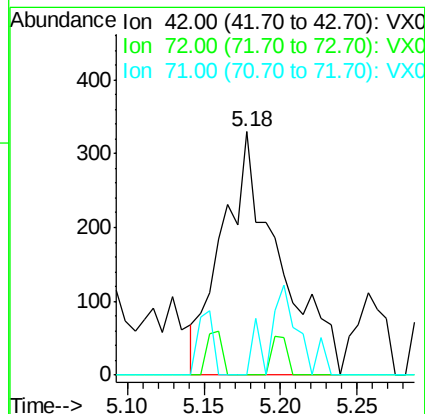
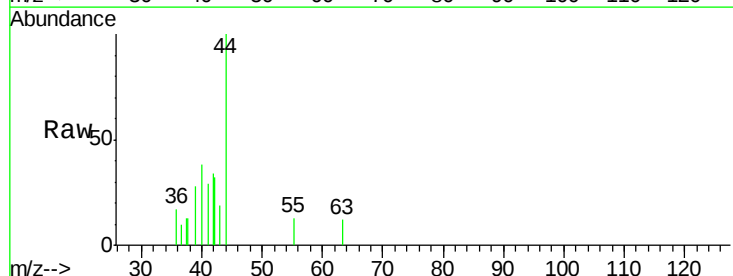
RT: 5.18 min Scan# 753

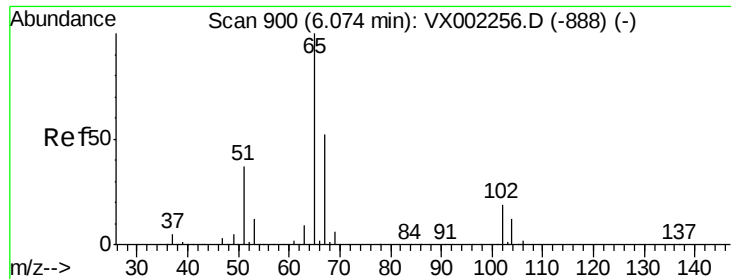
Delta R.T. 0.01 min

Lab File: VX002287.D

Acq: 05 Jun 2018 04:05

Tgt Ion: 42 Resp: 846
Ion Ratio Lower Upper
42 100
72 0.0 32.0 48.0#
71 0.0 30.1 45.1#





#33

1,2-Dichloroethane-d4

Concen: 49.53 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002287.D

Acq: 05 Jun 2018 04:05

Instrument :

MSVOA_X

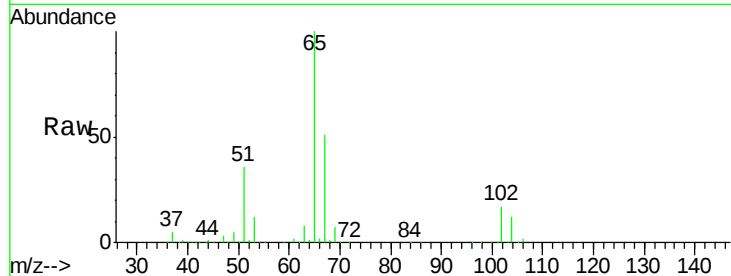
ClientSampleId :

Tot Ion: 65 Resp: 185331

Ion Ratio Lower Upper

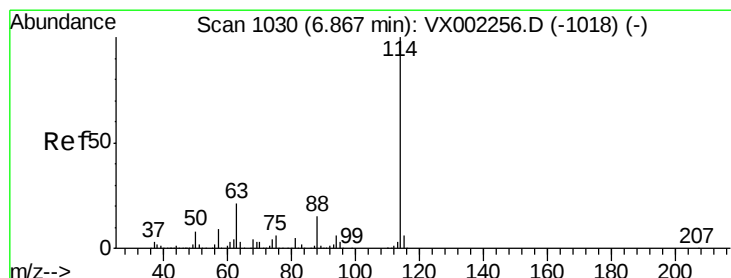
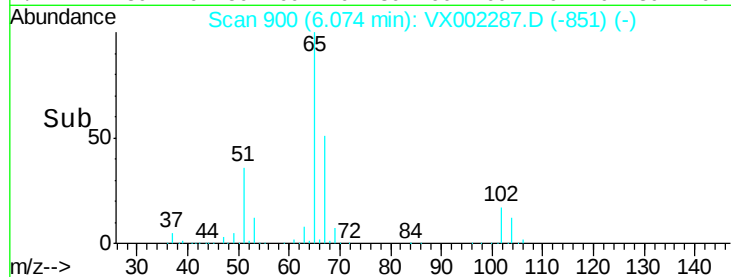
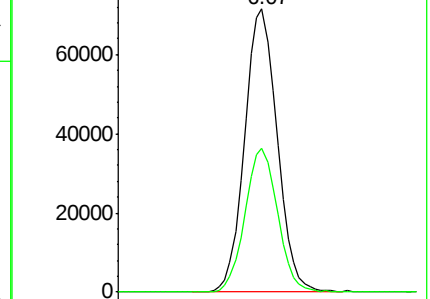
65 100

67 50.7 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002287.D

Acq: 05 Jun 2018 04:05

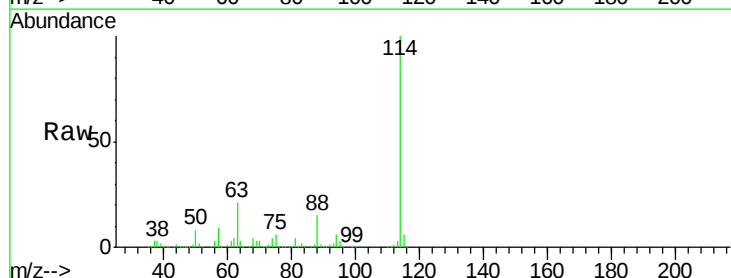
Tgt Ion: 114 Resp: 382486

Ion Ratio Lower Upper

114 100

63 20.6 0.0 41.4

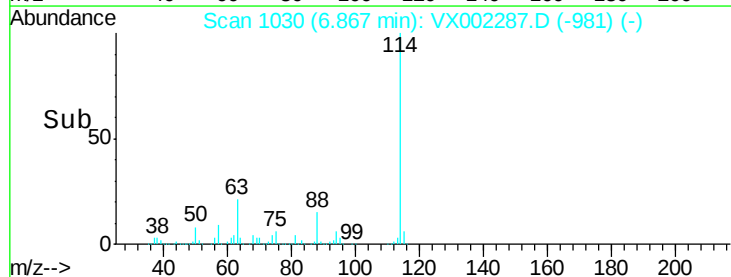
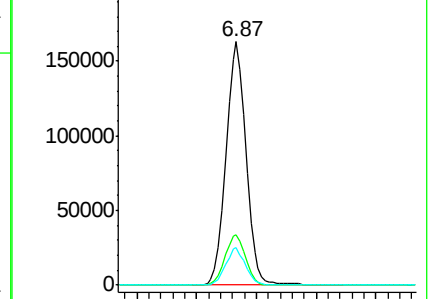
88 15.3 0.0 30.0

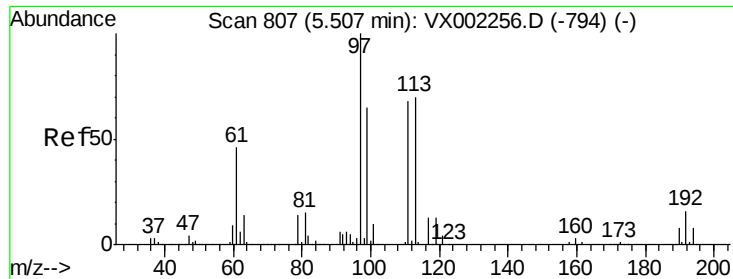


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

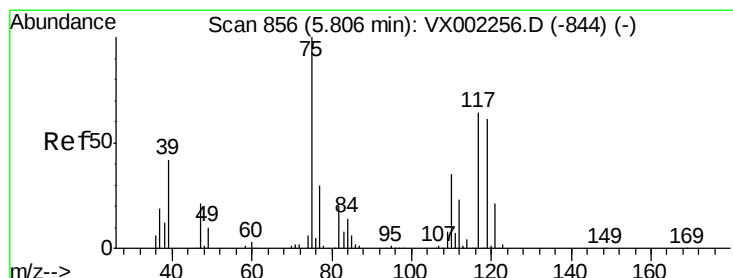
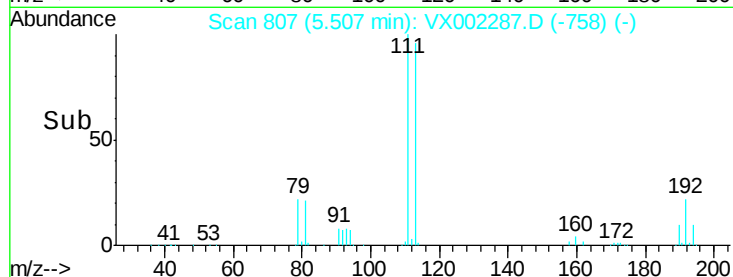
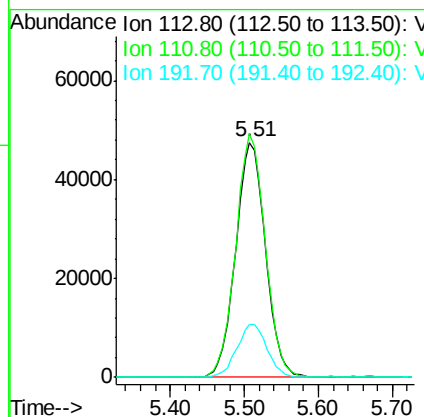
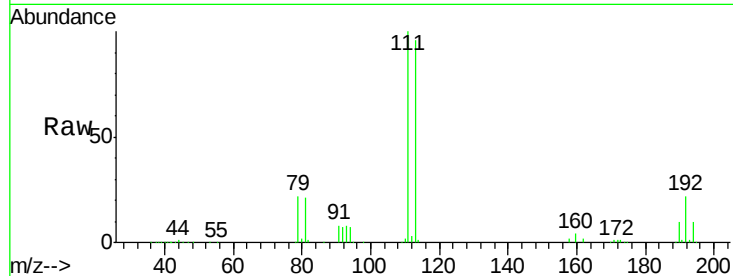




#35
 Dibromofluoromethane
 Concen: 44.50 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. -0.00 min
 Lab File: VX002287.D
 Acq: 05 Jun 2018 04:05

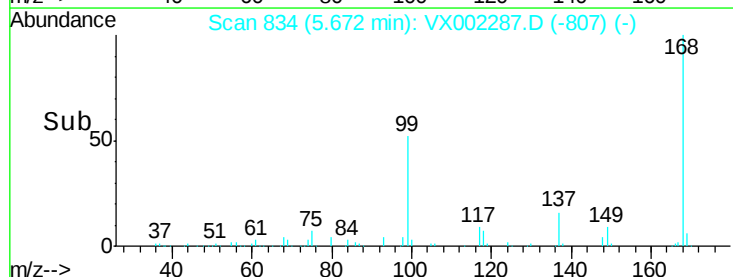
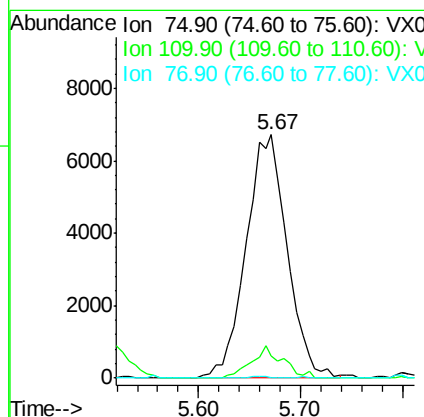
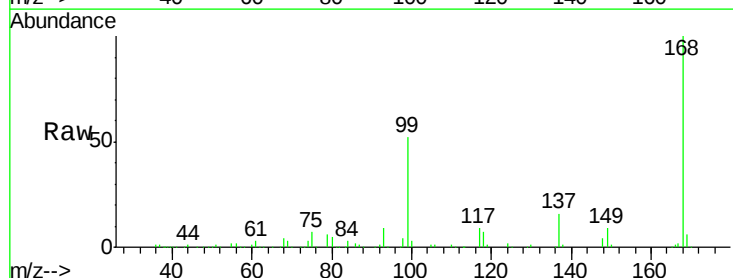
Instrument :
 MSVOA_X
 ClientSampleId :

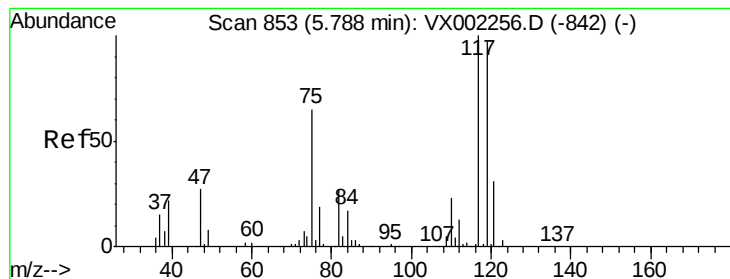
Tot Ion:113 Resp: 133854
 Ion Ratio Lower Upper
 113 100
 111 102.3 81.4 122.0
 192 22.9 19.1 28.7



#36
 1,1-Dichloropropene
 Concen: 4.67 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX002287.D
 Acq: 05 Jun 2018 04:05

Tgt Ion: 75 Resp: 18794
 Ion Ratio Lower Upper
 75 100
 110 10.1 18.1 54.4#
 77 0.3 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 5.91 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002287.D

Acq: 05 Jun 2018 04:05

Instrument :

MSVOA_X

ClientSampleId :

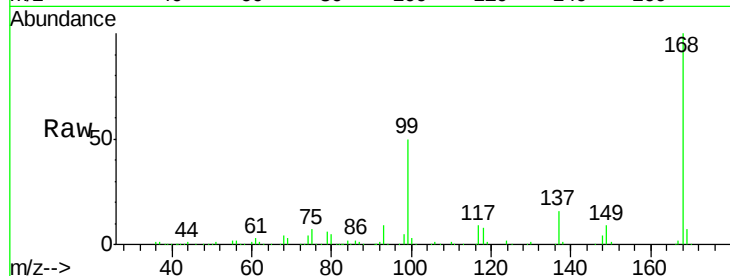
Tot Ion:117 Resp: 24881

Ion Ratio Lower Upper

117 100

119 5.5 77.4 116.0#

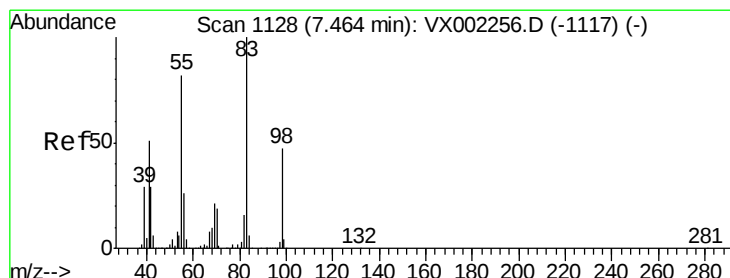
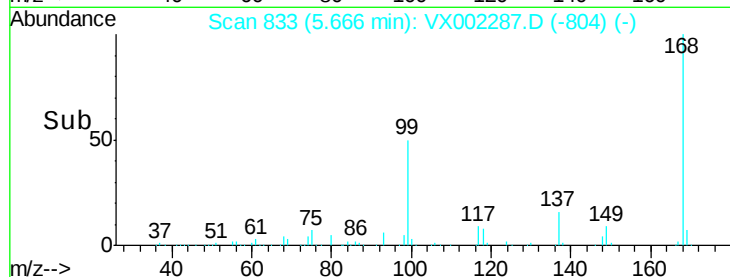
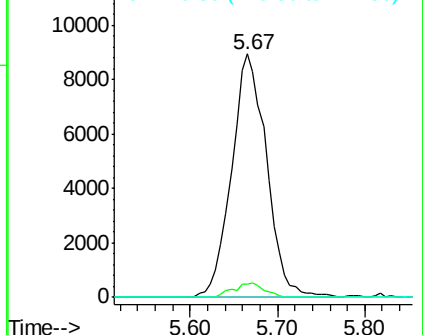
121 0.0 24.4 36.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 0.30 ug/l

RT: 7.46 min Scan# 1127

Delta R.T. -0.01 min

Lab File: VX002287.D

Acq: 05 Jun 2018 04:05

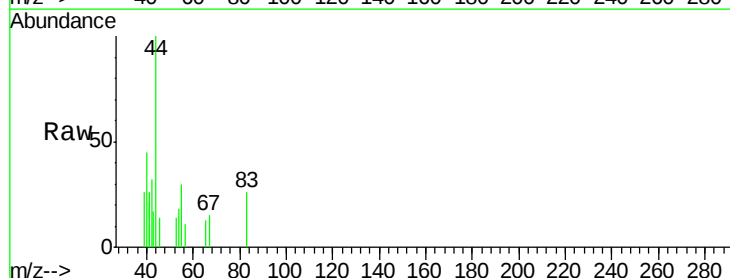
Tgt Ion: 83 Resp: 191

Ion Ratio Lower Upper

83 100

55 69.6 65.4 98.0

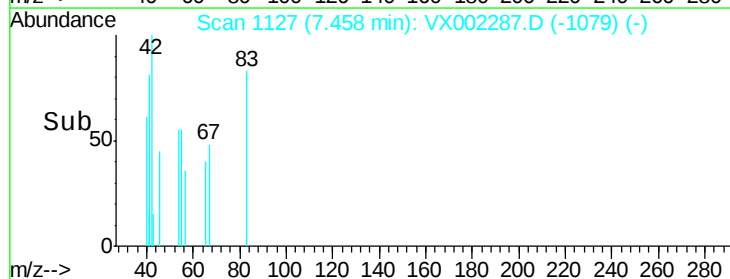
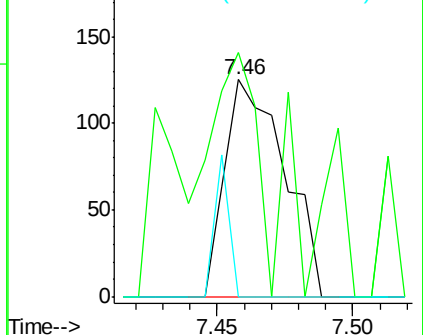
98 0.0 37.4 56.0#

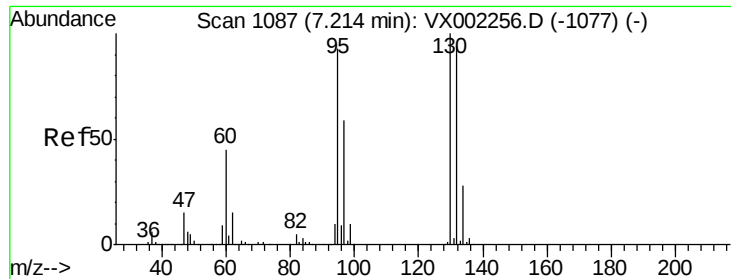


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

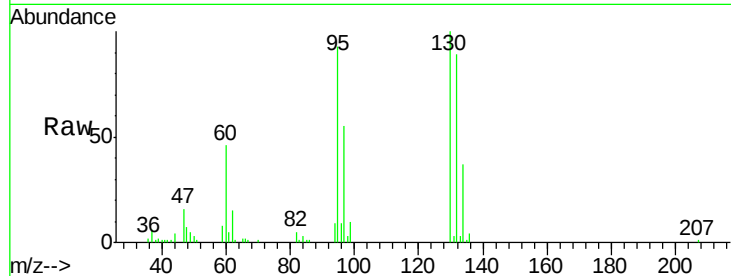




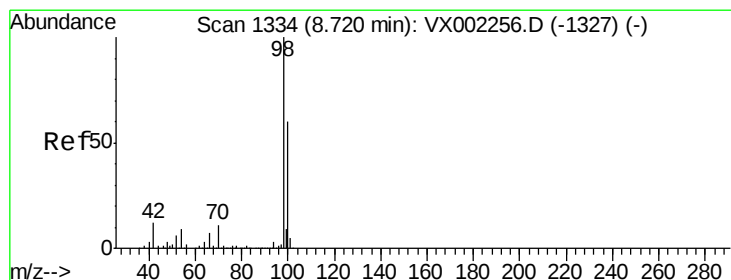
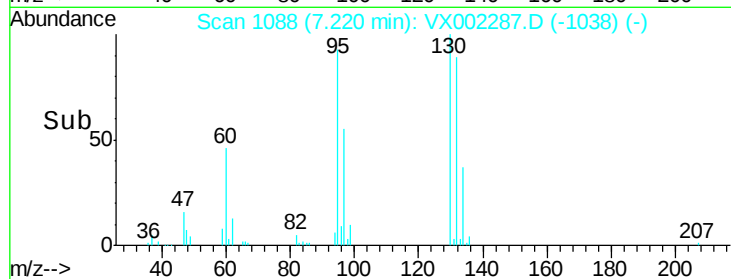
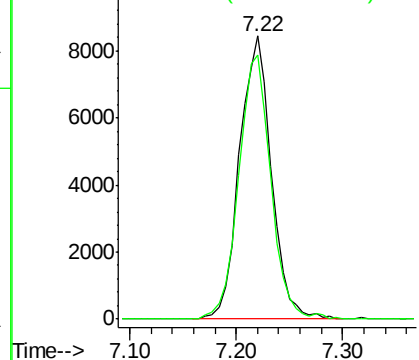
#44
 Trichloroethene
 Concen: 5.18 ug/l
 RT: 7.22 min Scan# 1088
 Delta R.T. 0.01 min
 Lab File: VX002287.D
 Acq: 05 Jun 2018 04:05

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:130 Resp: 17732
 Ion Ratio Lower Upper
 130 100
 95 93.4 0.0 185.4

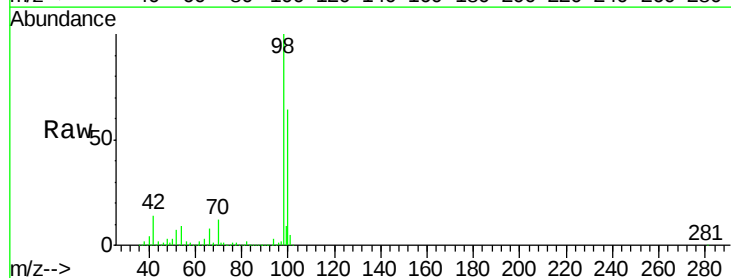


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0

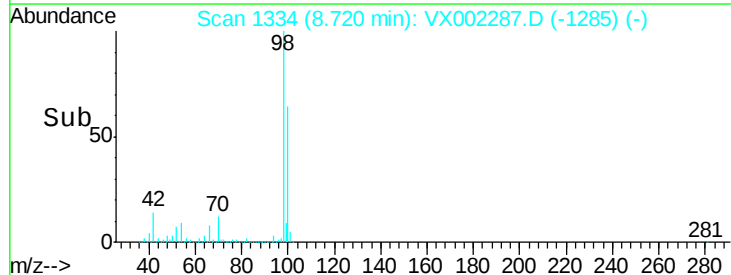
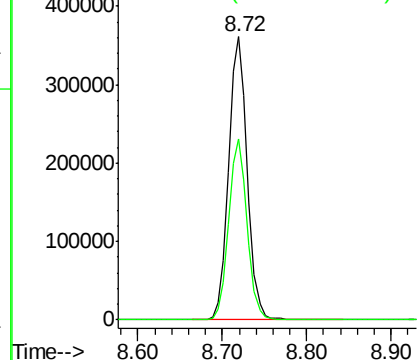


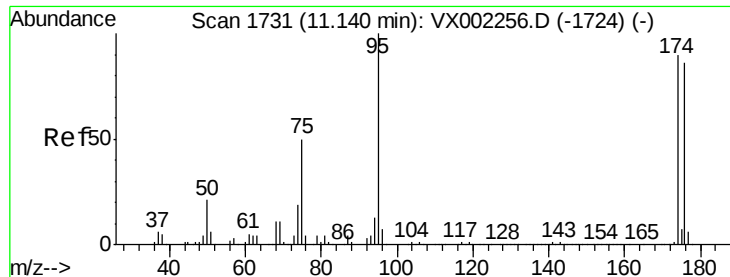
#50
 Toluene-d8
 Concen: 47.65 ug/l
 RT: 8.72 min Scan# 1334
 Delta R.T. -0.00 min
 Lab File: VX002287.D
 Acq: 05 Jun 2018 04:05

Tgt Ion: 98 Resp: 549336
 Ion Ratio Lower Upper
 98 100
 100 63.5 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0
 Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 44.26 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002287.D

Acq: 05 Jun 2018 04:05

Instrument :

MSVOA_X

ClientSampleId :

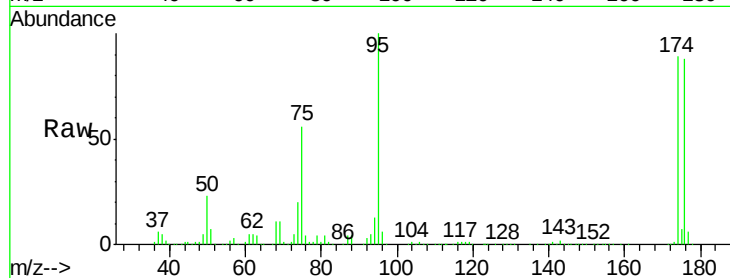
Tot Ion: 95 Resp: 196778

Ion Ratio Lower Upper

95 100

174 92.6 0.0 187.4

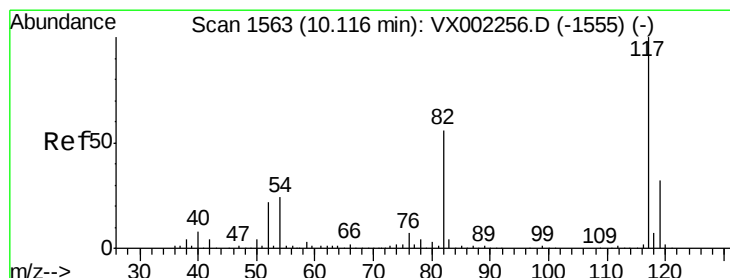
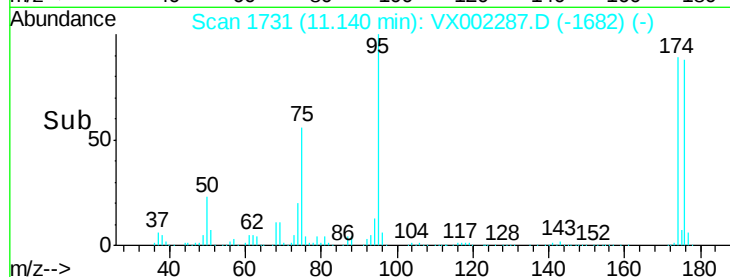
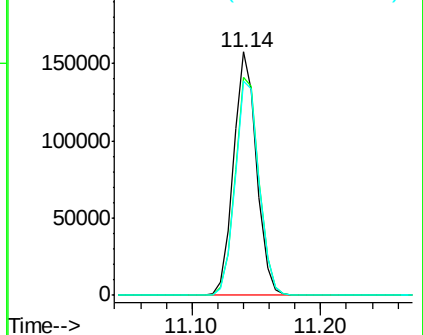
176 91.0 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX002287.D

Acq: 05 Jun 2018 04:05

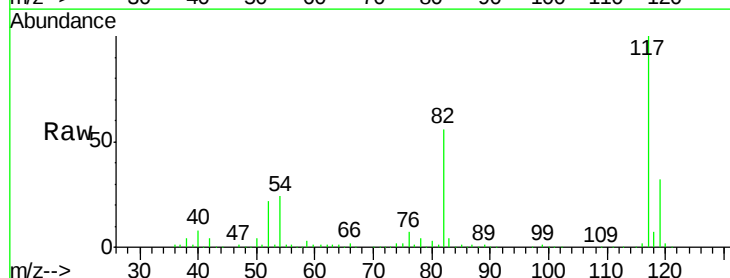
Tgt Ion: 117 Resp: 358178

Ion Ratio Lower Upper

117 100

82 55.8 45.0 67.4

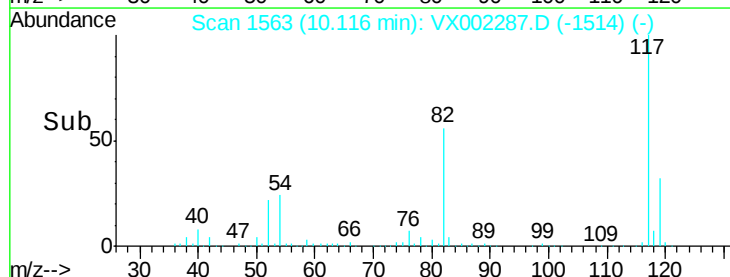
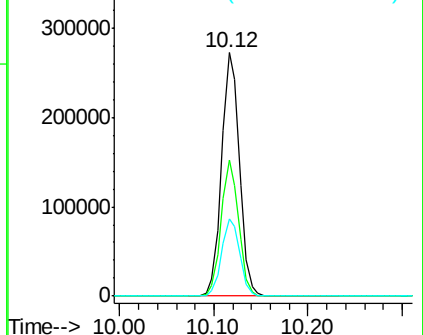
119 31.7 25.8 38.6

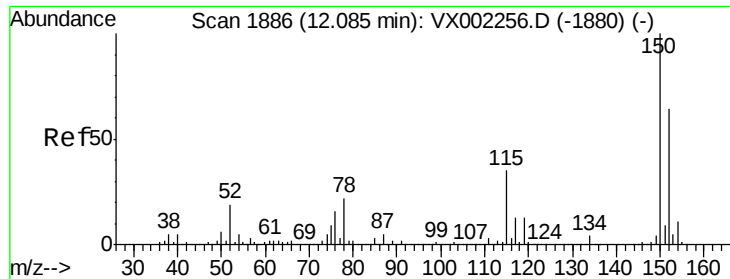


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002287.D

Acq: 05 Jun 2018 04:05

Instrument :

MSVOA_X

ClientSampleId :

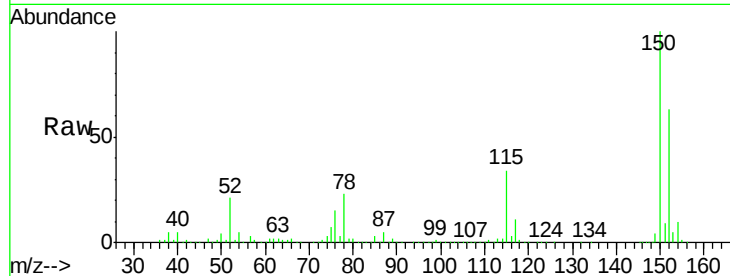
Tot Ion:152 Resp: 199723

Ion Ratio Lower Upper

152 100

115 55.3 40.1 120.2

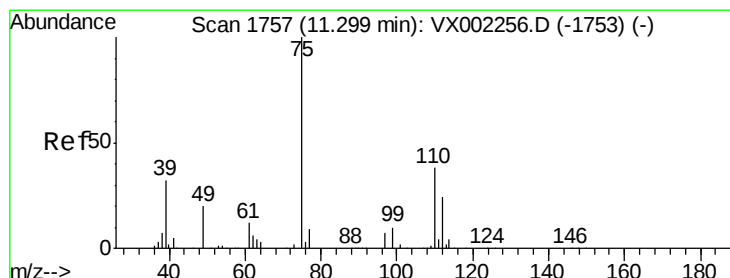
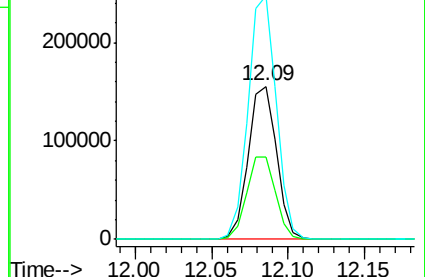
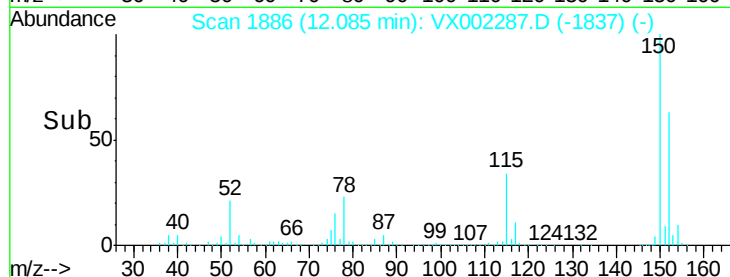
150 158.3 0.0 347.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 24.35 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002287.D

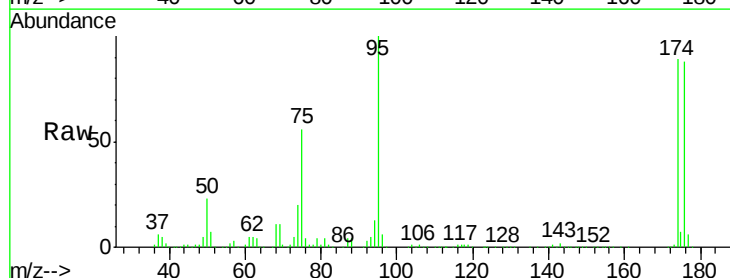
Acq: 05 Jun 2018 04:05

Tgt Ion: 75 Resp: 106732

Ion Ratio Lower Upper

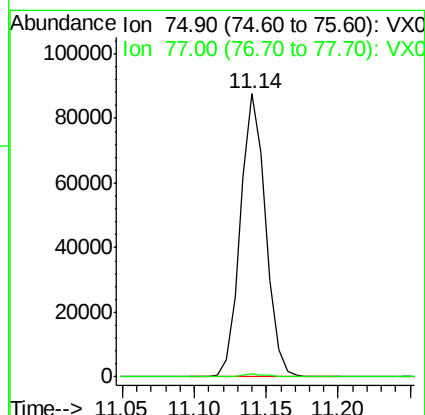
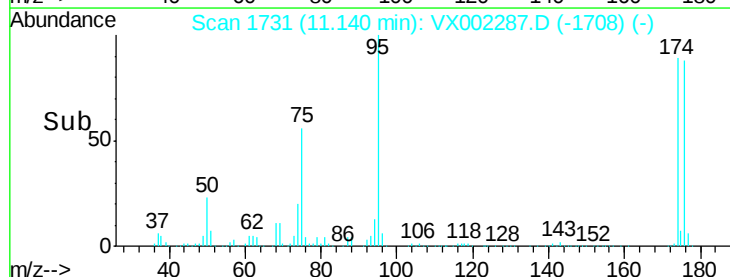
75 100

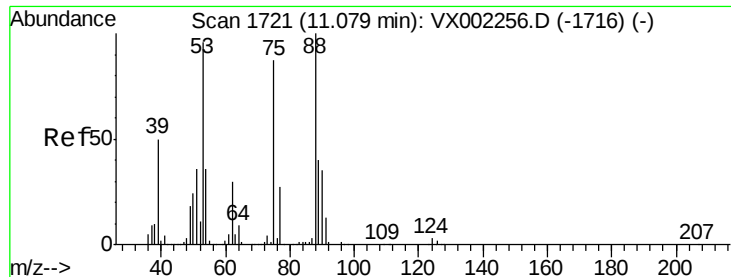
77 1.2 22.8 68.3#



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: 85.37 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002287.D

Acq: 05 Jun 2018 04:05

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 106732

Ion Ratio Lower Upper

75 100

53 0.0 86.8 130.2#

89 0.0 38.2 57.2#

