

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122018\
 Data File : VX006664.D
 Acq On : 20 Dec 2018 10:01
 Operator : JC/MD
 Sample : J6488-01RE
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB-01-181218

Quant Time: Dec 21 03:27:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	661199	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1042052	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	962112	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	457800	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	355775	49.93	ug/l	0.00
Spiked Amount			Recovery	=	99.86%	
35) Dibromofluoromethane	5.50	113	307861	46.72	ug/l	0.00
Spiked Amount			Recovery	=	93.44%	
50) Toluene-d8	8.71	98	1219660	49.09	ug/l	0.00
Spiked Amount			Recovery	=	98.18%	
62) 4-Bromofluorobenzene	11.13	95	443131	48.70	ug/l	0.00
Spiked Amount			Recovery	=	97.40%	

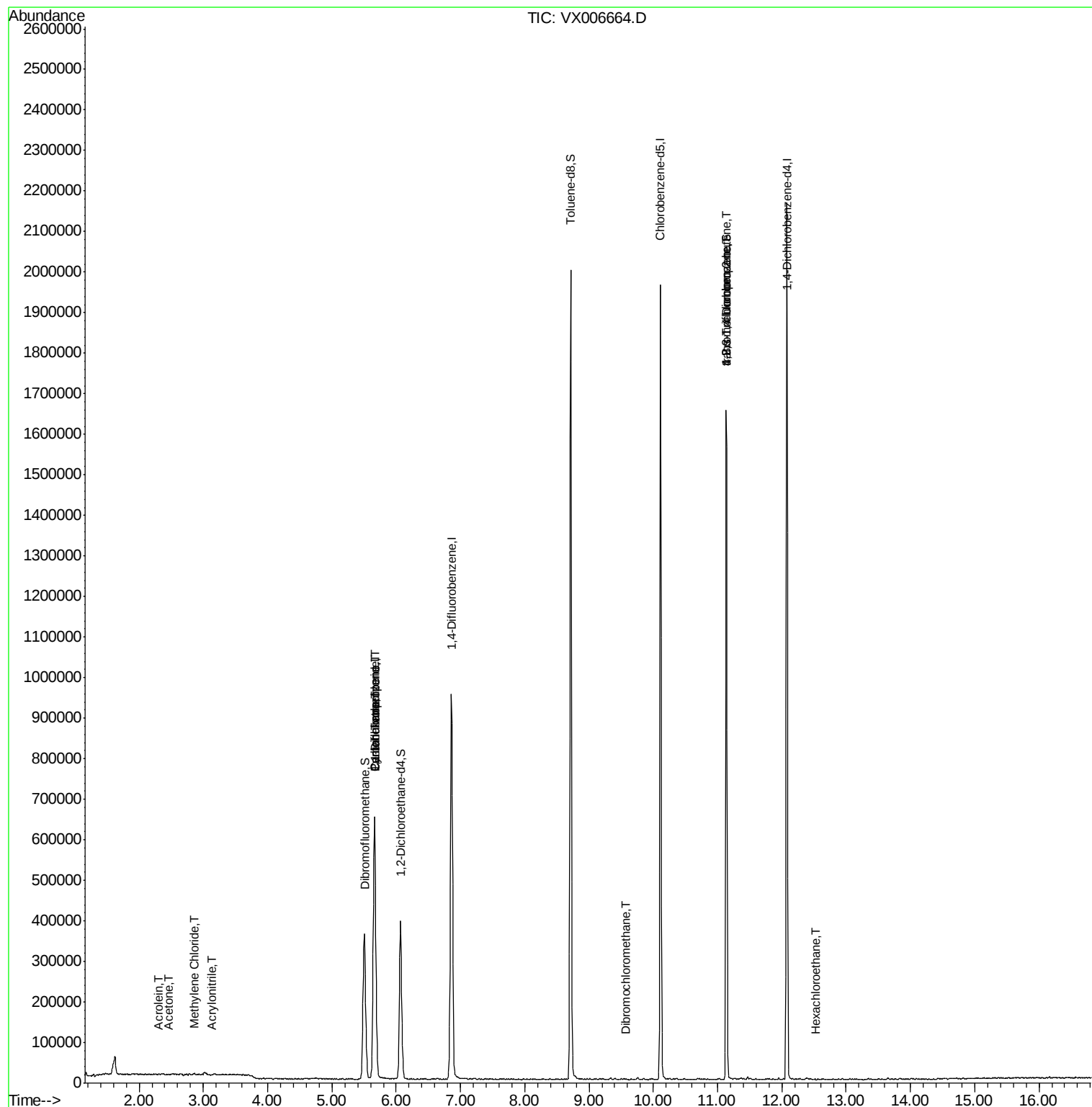
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.61	94	387	Below Cal		91
13) Acrolein	2.31	56	222	0.207	ug/l #	1
15) Acrylonitrile	3.13	53	965	0.273	ug/l #	43
16) Acetone	2.46	43	926	0.283	ug/l	94
20) Methylene Chloride	2.86	84	2093	0.309	ug/l #	69
28) Bromochloromethane	5.02	49	213	Below Cal	#	84
31) Cyclohexane	5.66	56	11405	1.156	ug/l #	13
36) 1,1-Dichloropropene	5.67	75	43885	5.085	ug/l #	49
38) Carbon Tetrachloride	5.67	117	60158	7.172	ug/l #	14
49) 1,4-Dioxane	7.77	88	61	Below Cal	#	1
60) Dibromochloromethane	9.59	129	86	2.335	ug/l	85
76) 1,2,3-Trichloropropane	11.13	75	207071	24.339	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	207071	72.033	ug/l #	10
90) Hexachloroethane	12.53	117	21	3.298	ug/l	53

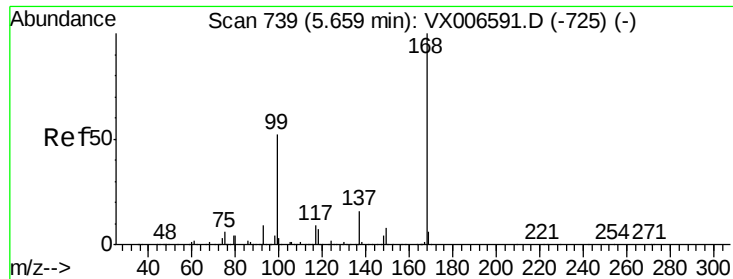
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006664.D

Acq: 20 Dec 2018 10:01

Instrument :

MSVOA_X

ClientSampleId :

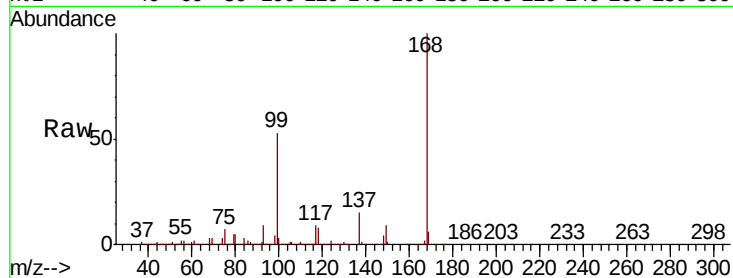
TB-01-181218

Tot Ion:168 Resp: 661199

Ion Ratio Lower Upper

168 100

99 53.1 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

150000

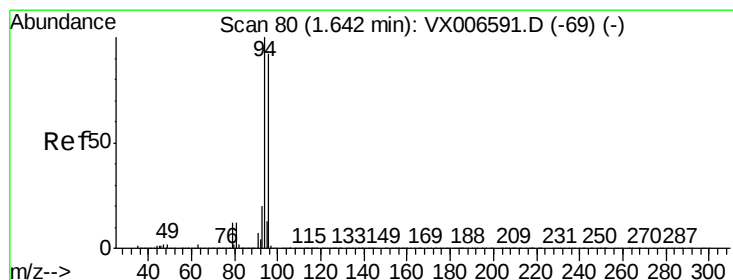
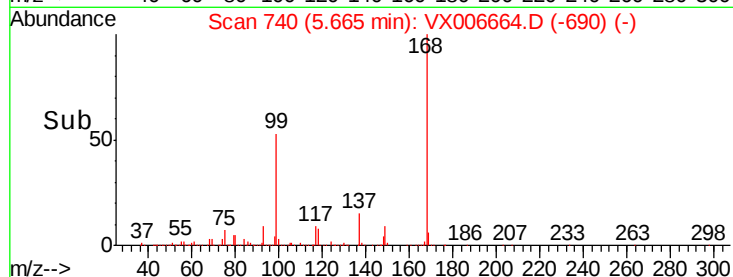
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 75

Delta R.T. -0.03 min

Lab File: VX006664.D

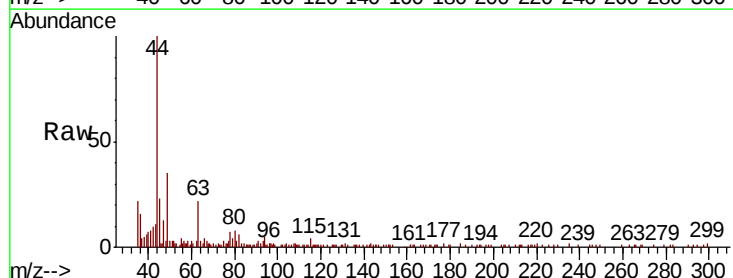
Acq: 20 Dec 2018 10:01

Tgt Ion: 94 Resp: 387

Ion Ratio Lower Upper

94 100

96 83.4 73.4 110.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

600

500

400

300

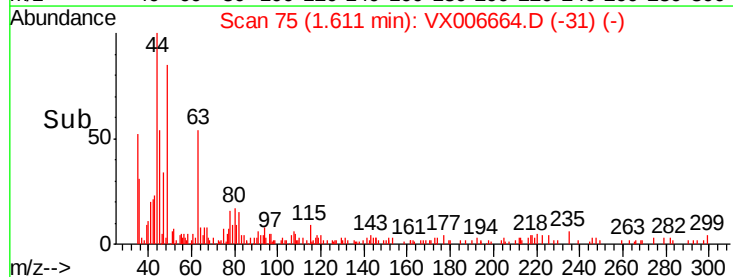
200

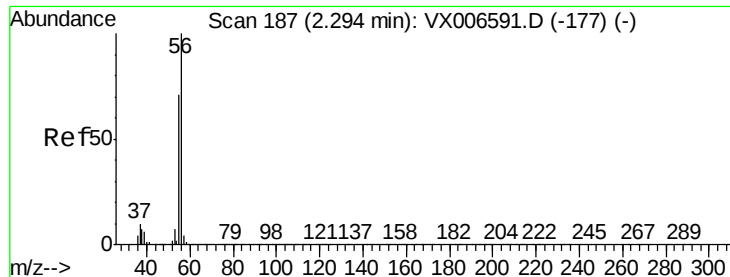
100

0

Time-->

1.56 1.58 1.60 1.62





#13

Acrolein

Concen: 0.207 ug/l

RT: 2.31 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX006664.D

Acq: 20 Dec 2018 10:01

Instrument :

MSVOA_X

ClientSampleId :

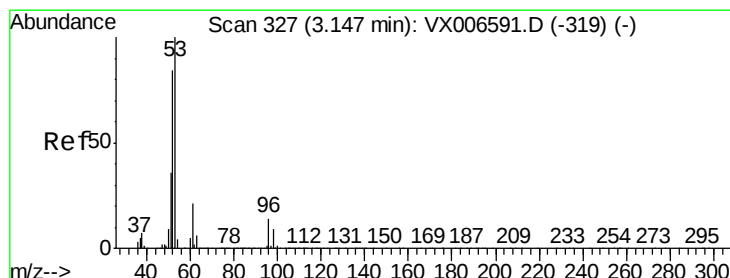
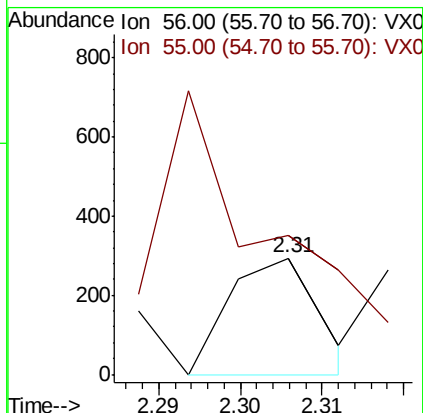
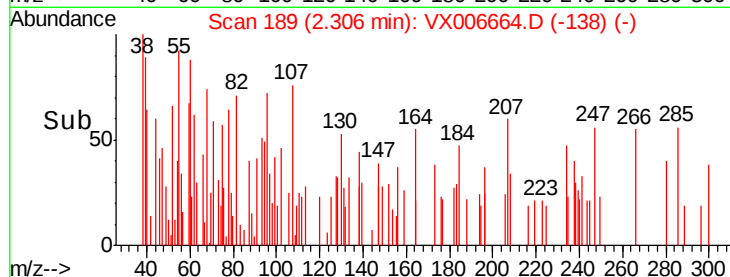
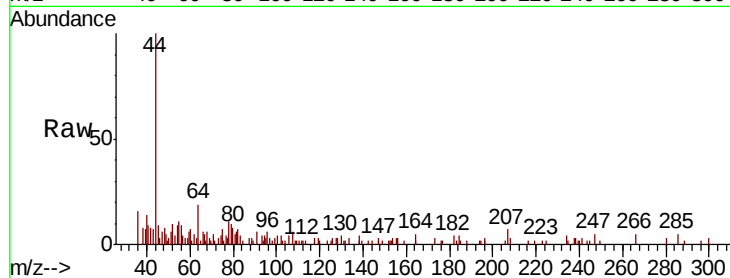
TB-01-181218

Tot Ion: 56 Resp: 222

Ion Ratio Lower Upper

56 100

55 306.8 58.2 87.4#



#15

Acrylonitrile

Concen: 0.273 ug/l

RT: 3.13 min Scan# 325

Delta R.T. -0.01 min

Lab File: VX006664.D

Acq: 20 Dec 2018 10:01

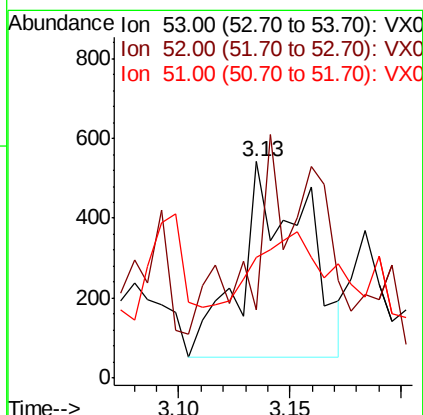
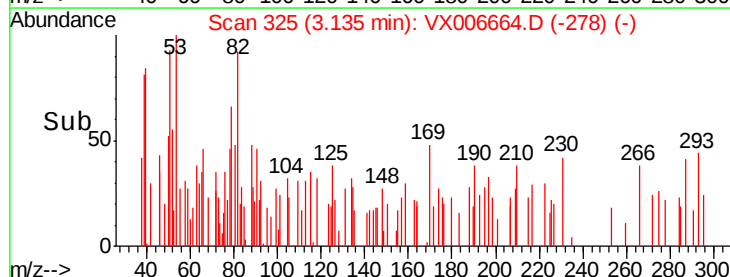
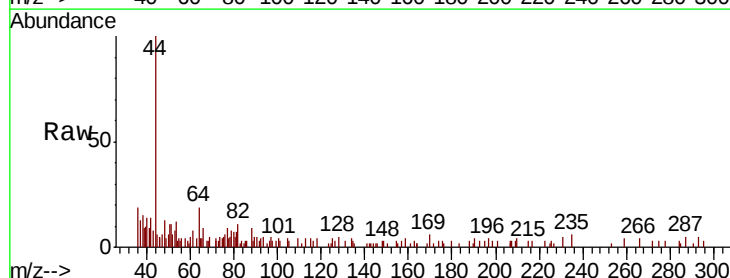
Tgt Ion: 53 Resp: 965

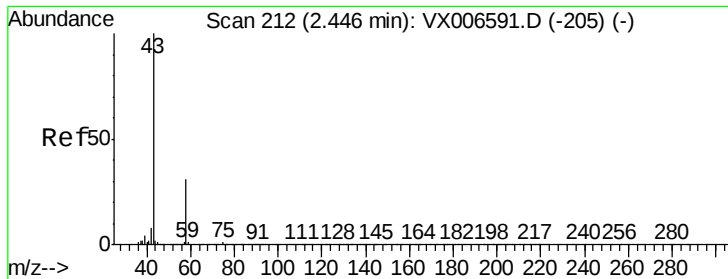
Ion Ratio Lower Upper

53 100

52 24.2 66.0 99.0#

51 59.3 28.6 42.8#





#16

Acetone

Concen: 0.283 ug/l

RT: 2.46 min Scan# 214

Delta R.T. 0.01 min

Lab File: VX006664.D

Acq: 20 Dec 2018 10:01

Instrument :

MSVOA_X

ClientSampleId :

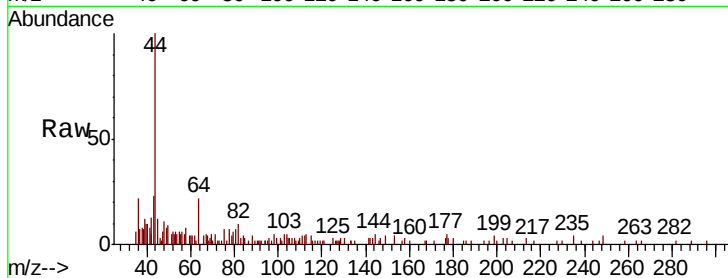
TB-01-181218

Tot Ion: 43 Resp: 926

Ion Ratio Lower Upper

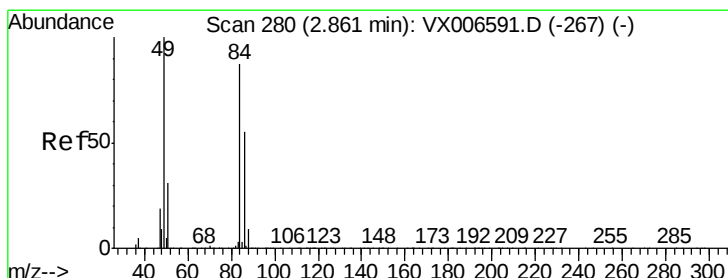
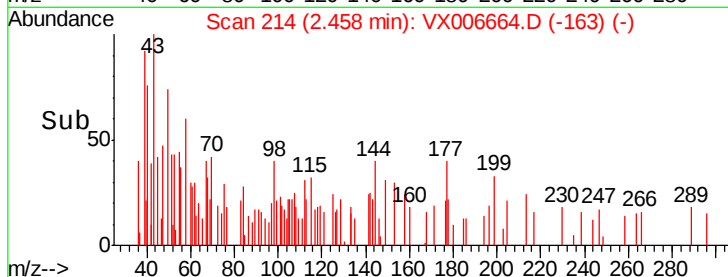
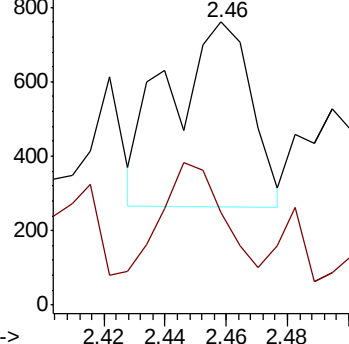
43 100

58 34.8 25.0 37.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#20

Methylene Chloride

Concen: 0.309 ug/l

RT: 2.86 min Scan# 280

Delta R.T. -0.00 min

Lab File: VX006664.D

Acq: 20 Dec 2018 10:01

Tgt Ion: 84 Resp: 2093

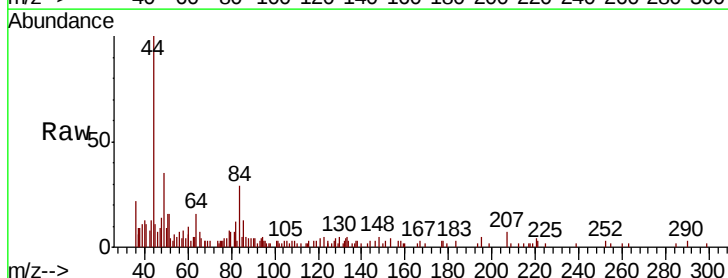
Ion Ratio Lower Upper

84 100

49 105.8 91.8 137.6

51 96.8 28.5 42.7#

86 39.1 50.2 75.2#

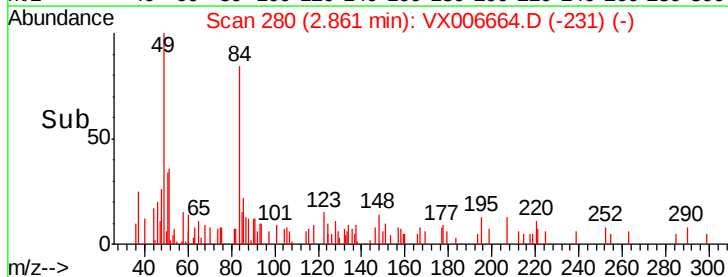
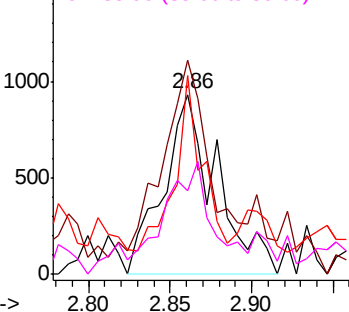


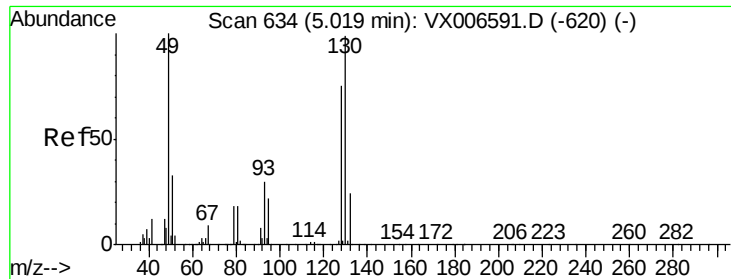
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 635

Delta R.T. 0.01 min

Lab File: VX006664.D

Acq: 20 Dec 2018 10:01

Instrument :

MSVOA_X

ClientSampleId :

TB-01-181218

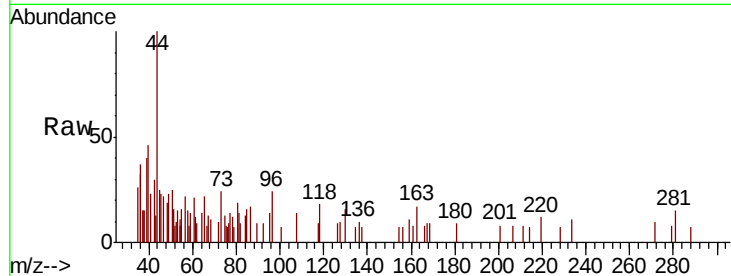
Tot Ion: 49 Resp: 213

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.4

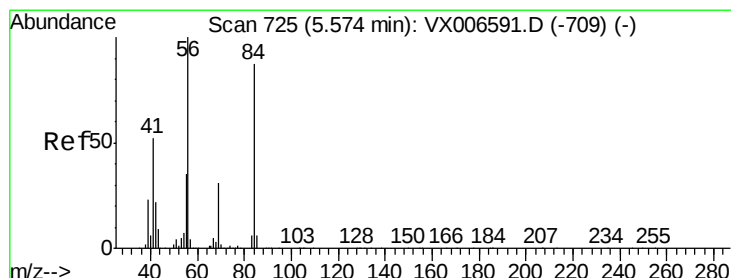
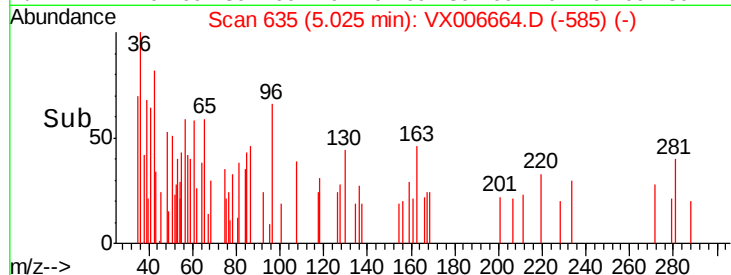
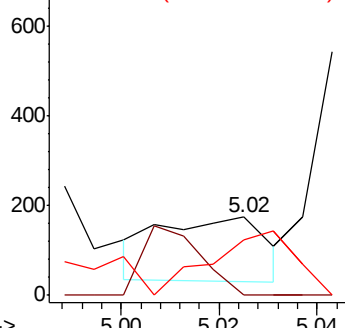
130 80.8 77.7 116.5



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#31

Cyclohexane

Concen: 1.156 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX006664.D

Acq: 20 Dec 2018 10:01

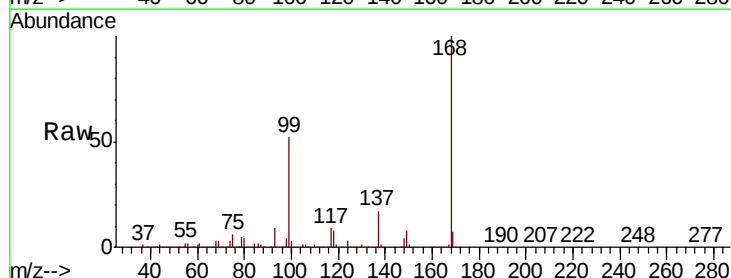
Tgt Ion: 56 Resp: 11405

Ion Ratio Lower Upper

56 100

69 158.6 24.4 36.6#

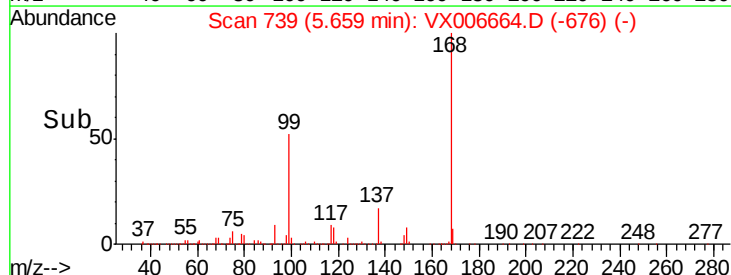
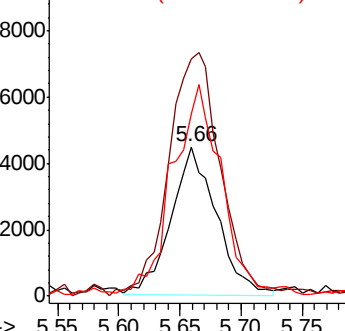
84 120.0 70.0 105.0#

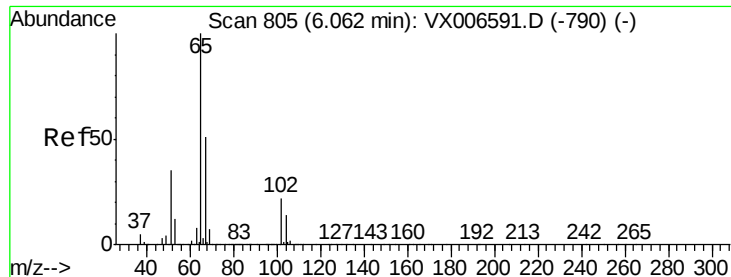


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 49.926 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006664.D

Acq: 20 Dec 2018 10:01

Instrument :

MSVOA_X

ClientSampleId :

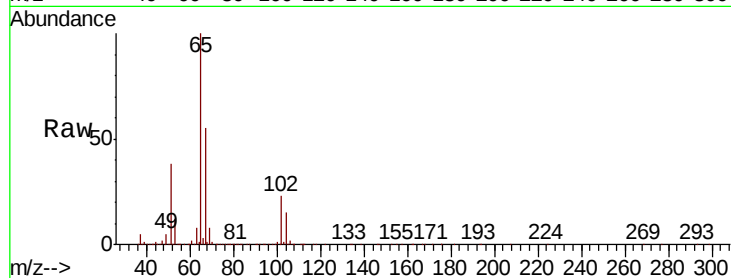
TB-01-181218

Tot Ion: 65 Resp: 355775

Ion Ratio Lower Upper

65 100

67 53.3 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

150000

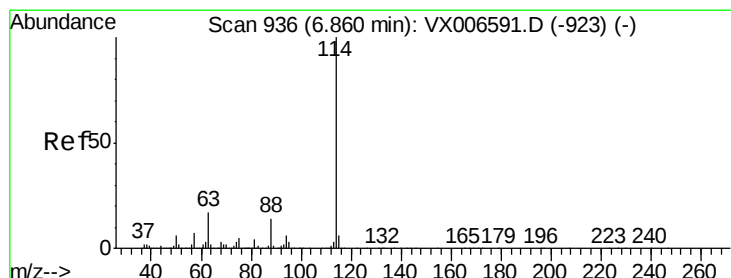
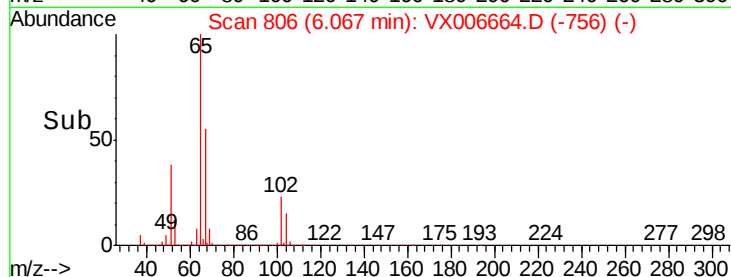
100000

50000

0

Time-->

5.90 6.00 6.10 6.20 6.30



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006664.D

Acq: 20 Dec 2018 10:01

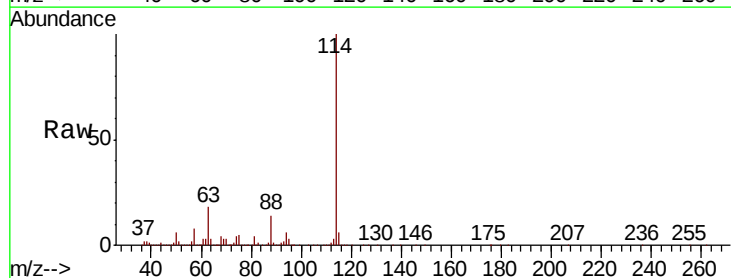
Tgt Ion: 114 Resp: 1042052

Ion Ratio Lower Upper

114 100

63 17.8 0.0 34.8

88 14.4 0.0 28.8



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

600000

500000

400000

300000

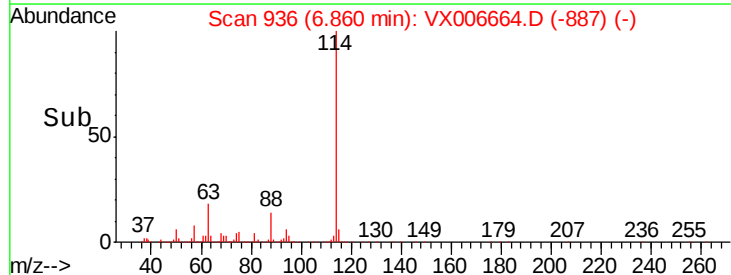
200000

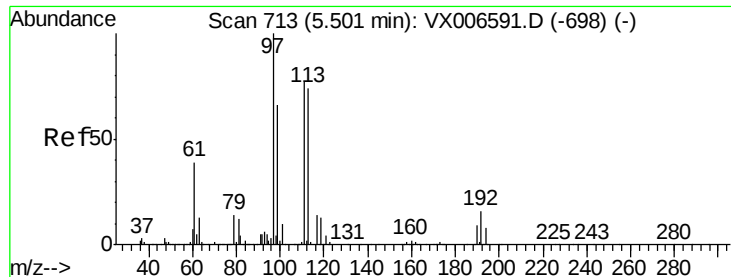
100000

0

Time-->

6.70 6.80 6.90 7.00 7.10





#35

Dibromofluoromethane

Concen: 46.718 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX006664.D

Acq: 20 Dec 2018 10:01

Instrument :

MSVOA_X

ClientSampleId :

TB-01-181218

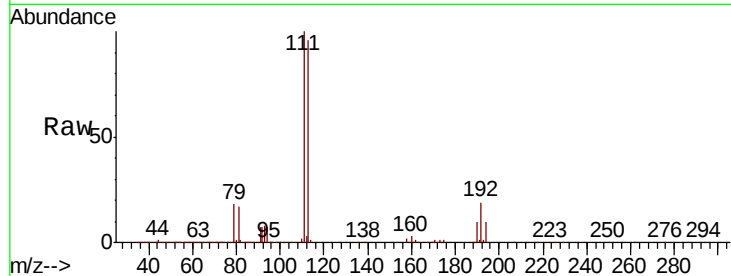
Tot Ion:113 Resp: 307861

Ion Ratio Lower Upper

113 100

111 102.6 81.6 122.4

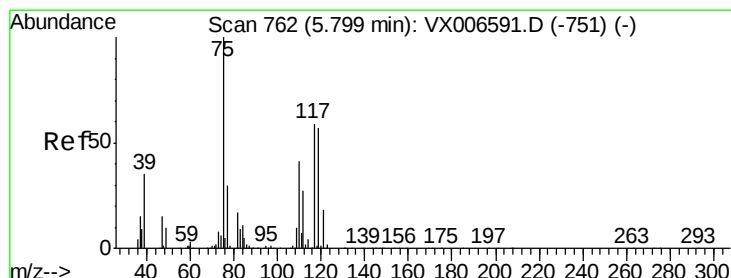
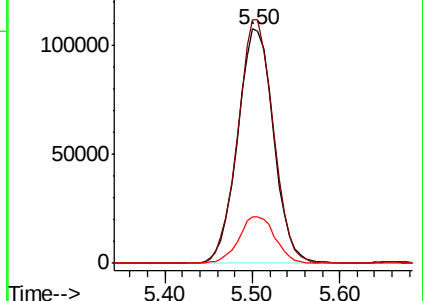
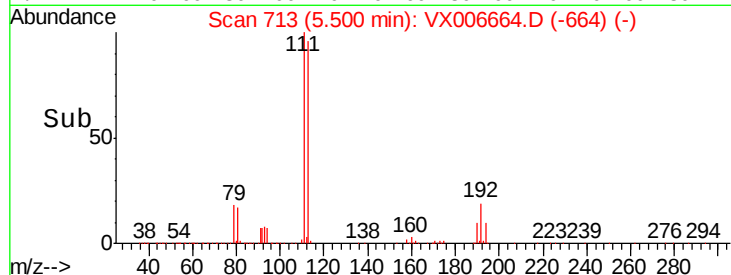
192 20.4 16.7 25.1



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: 5.085 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006664.D

Acq: 20 Dec 2018 10:01

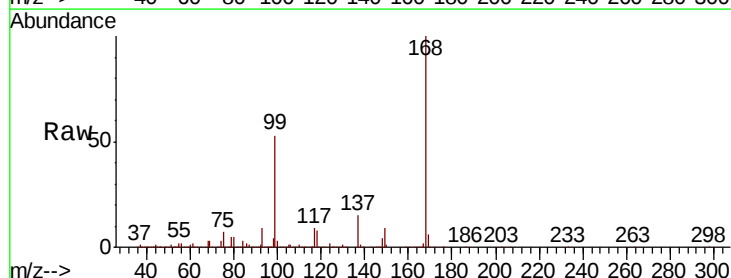
Tgt Ion: 75 Resp: 43885

Ion Ratio Lower Upper

75 100

110 10.7 20.2 60.5#

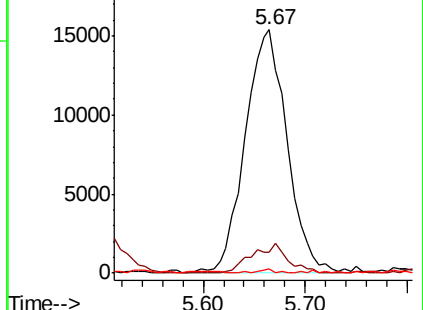
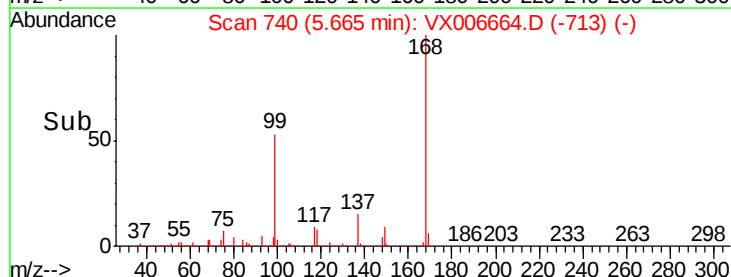
77 0.9 24.8 37.2#

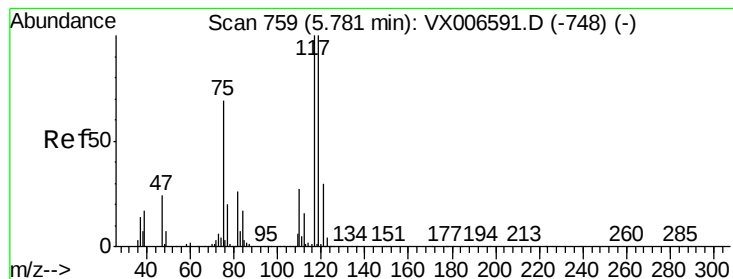


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 7.172 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006664.D

Acq: 20 Dec 2018 10:01

Instrument :

MSVOA_X

ClientSampleId :

TB-01-181218

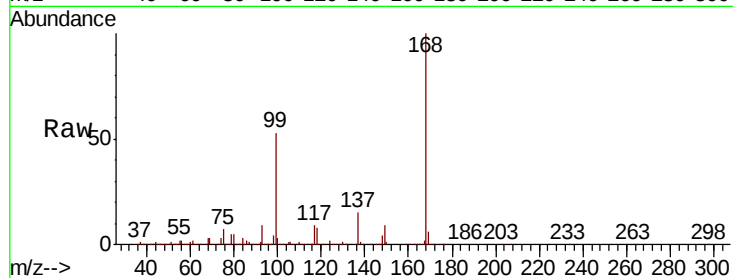
Tot Ion:117 Resp: 60158

Ion Ratio Lower Upper

117 100

119 4.5 79.4 119.2#

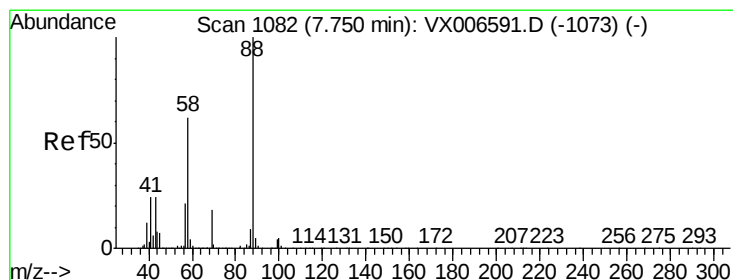
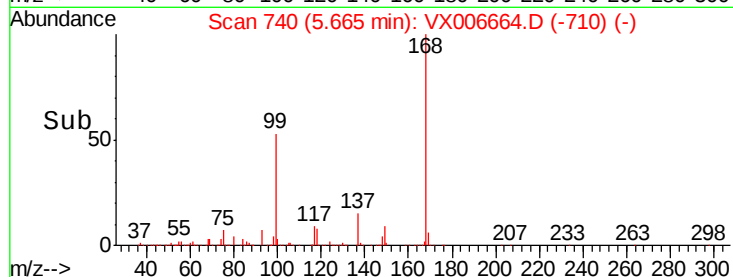
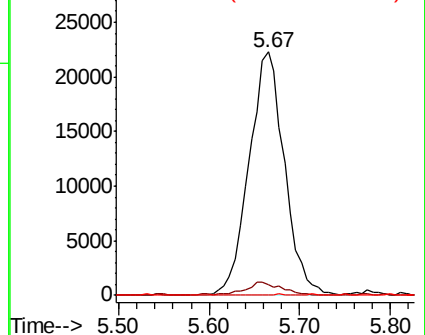
121 0.4 24.0 36.0#



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



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.77 min Scan# 1085

Delta R.T. 0.02 min

Lab File: VX006664.D

Acq: 20 Dec 2018 10:01

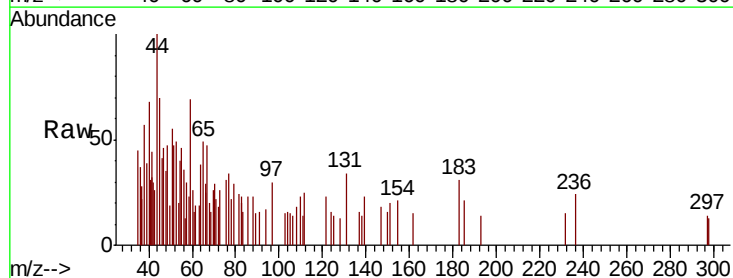
Tgt Ion: 88 Resp: 61

Ion Ratio Lower Upper

88 100

43 288.5 22.2 33.4#

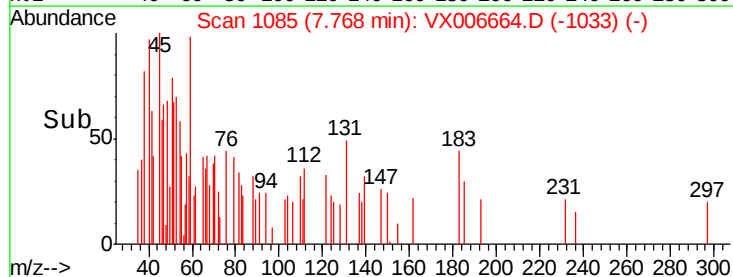
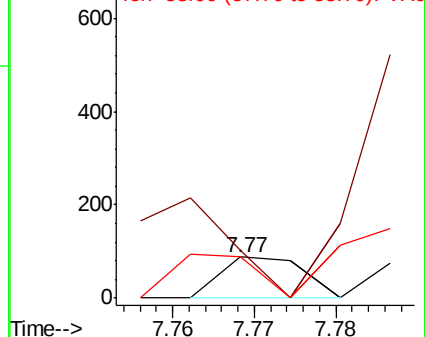
58 109.8 51.0 76.4#

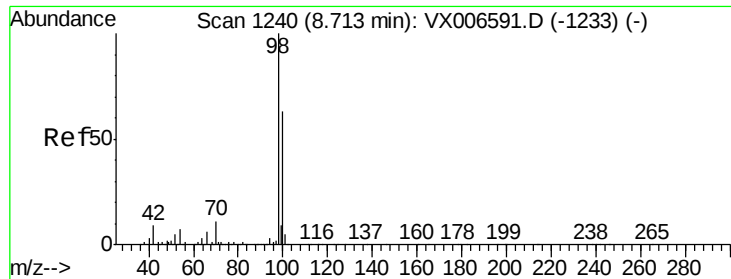


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.094 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006664.D

Acq: 20 Dec 2018 10:01

Instrument :

MSVOA_X

ClientSampleId :

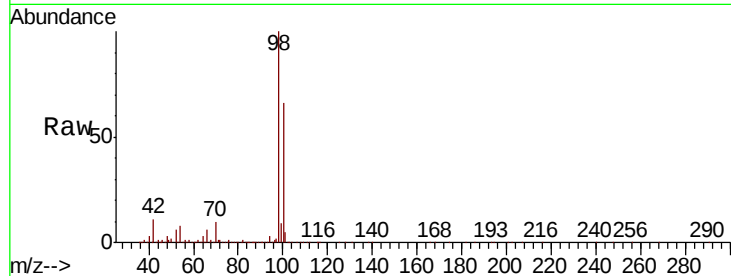
TB-01-181218

Tot Ion: 98 Resp: 1219660

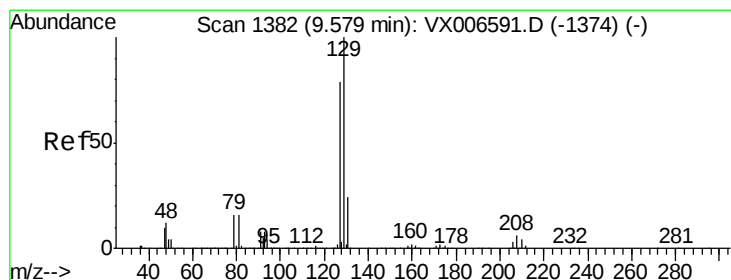
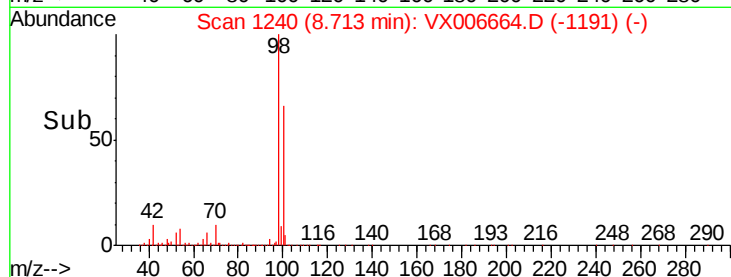
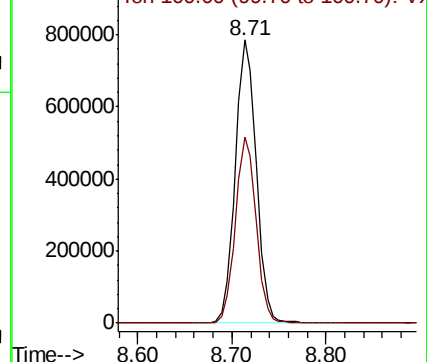
Ion Ratio Lower Upper

98 100

100 64.8 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX006664.D (-1191) (-)



#60

Dibromochloromethane

Concen: 2.335 ug/l

RT: 9.59 min Scan# 1383

Delta R.T. 0.01 min

Lab File: VX006664.D

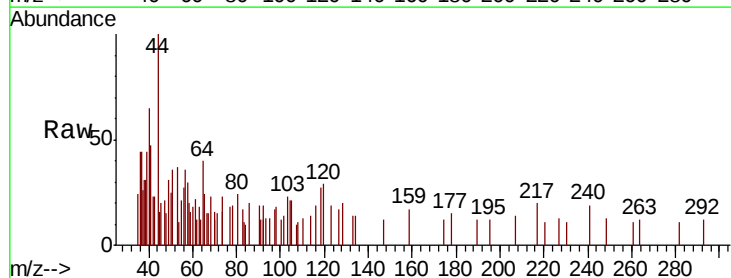
Acq: 20 Dec 2018 10:01

Tgt Ion:129 Resp: 86

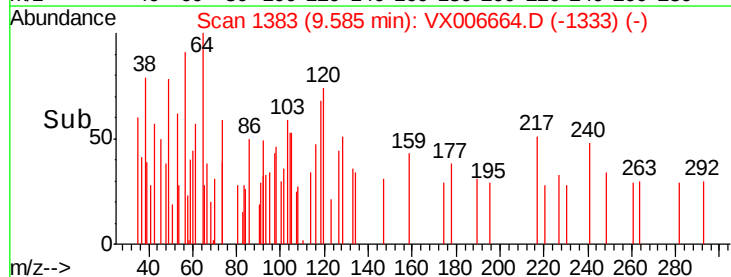
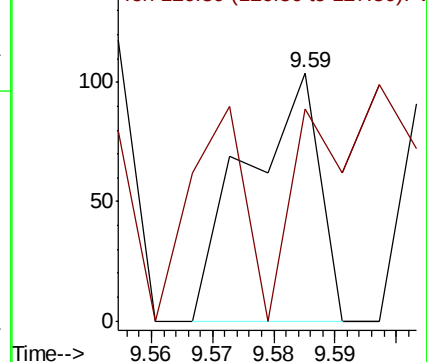
Ion Ratio Lower Upper

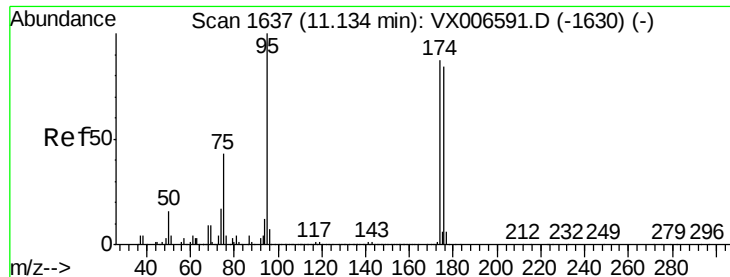
129 100

127 65.1 39.3 117.8



Abundance Ion 128.80 (128.50 to 129.50): VX006664.D (-1333) (-)

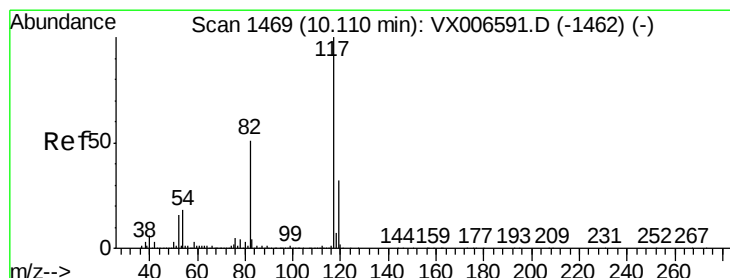
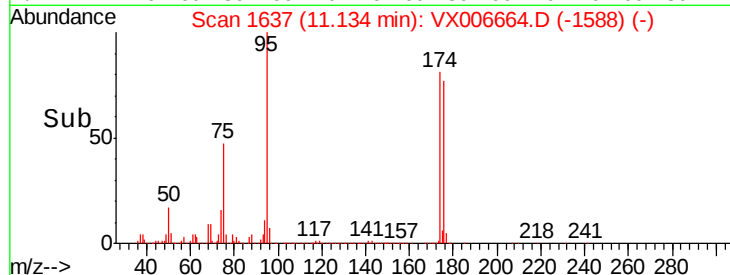
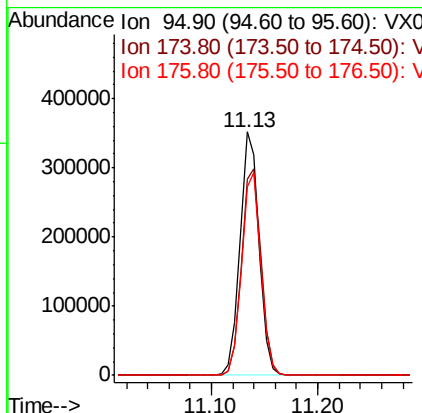
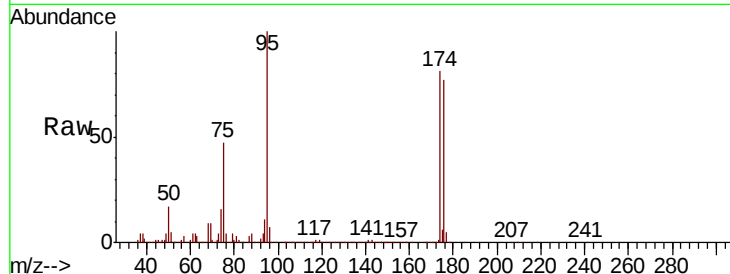




#62
4-Bromofluorobenzene
Concen: 48.702 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX006664.D
Acq: 20 Dec 2018 10:01

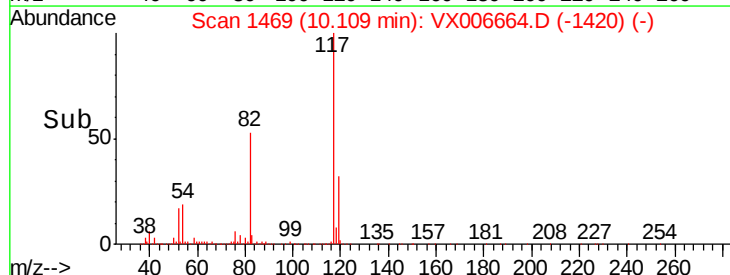
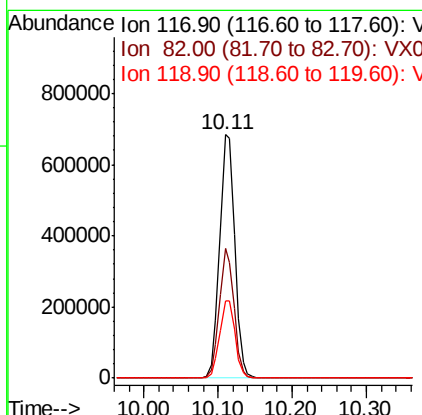
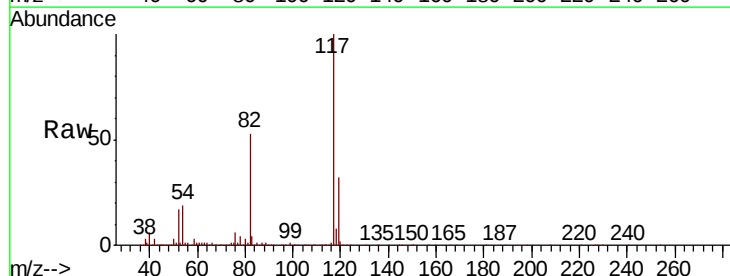
Instrument :
MSVOA_X
ClientSampleId :
TB-01-181218

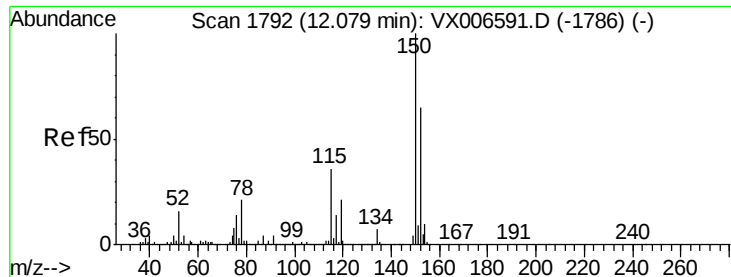
Tot Ion	Ratio	Lower	Upper
95	100		
174	87.7	0.0	182.2
176	84.2	0.0	178.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX006664.D
Acq: 20 Dec 2018 10:01

Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.3	41.0	61.6
119	31.8	25.4	38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX006664.D

Acq: 20 Dec 2018 10:01

Instrument :

MSVOA_X

ClientSampleId :

TB-01-181218

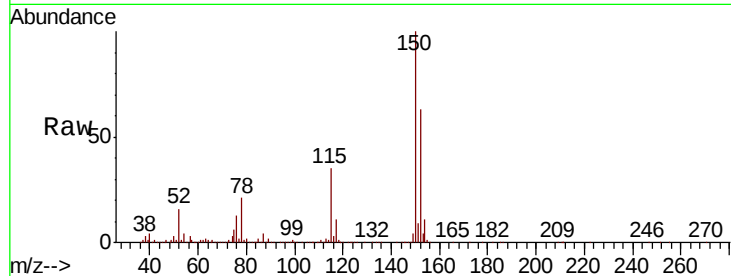
Tot Ion:152 Resp: 457800

Ion Ratio Lower Upper

152 100

115 56.9 39.1 117.2

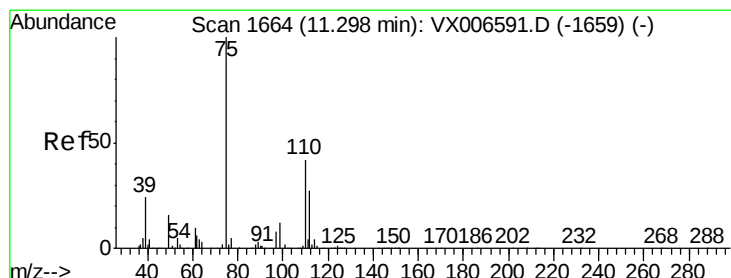
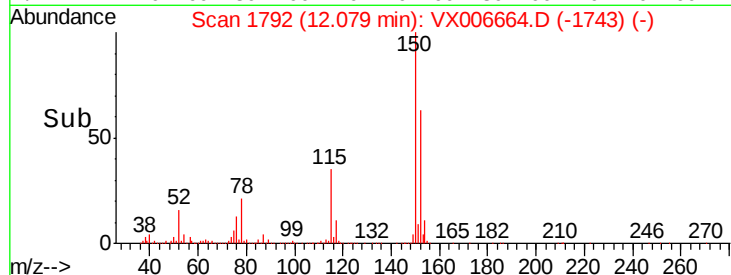
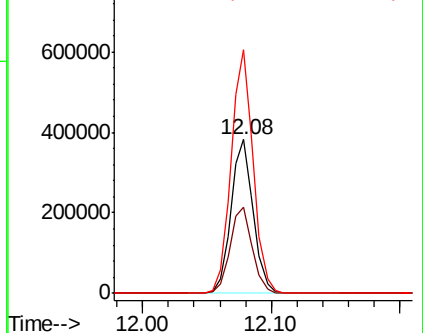
150 157.9 0.0 344.8



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: 24.339 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006664.D

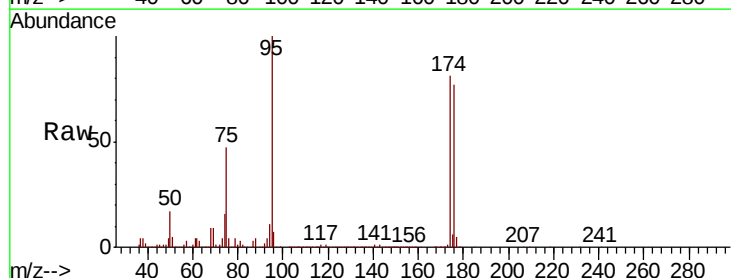
Acq: 20 Dec 2018 10:01

Tgt Ion: 75 Resp: 207071

Ion Ratio Lower Upper

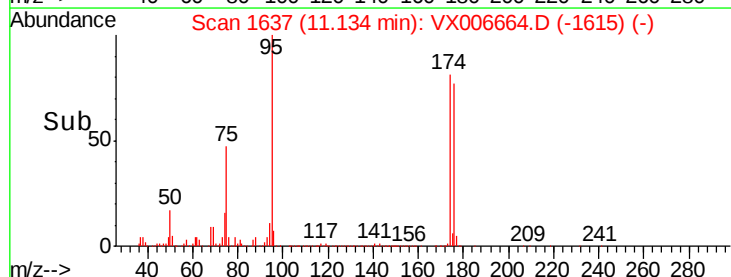
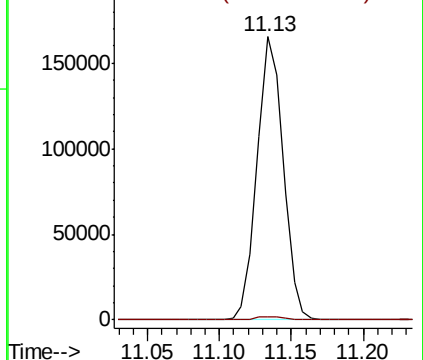
75 100

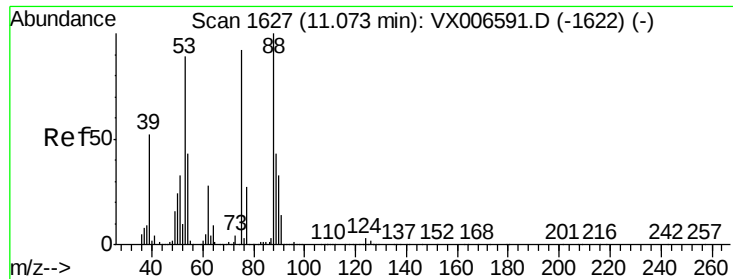
77 1.3 18.5 55.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

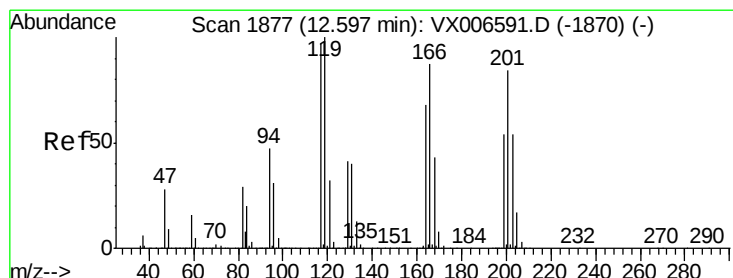
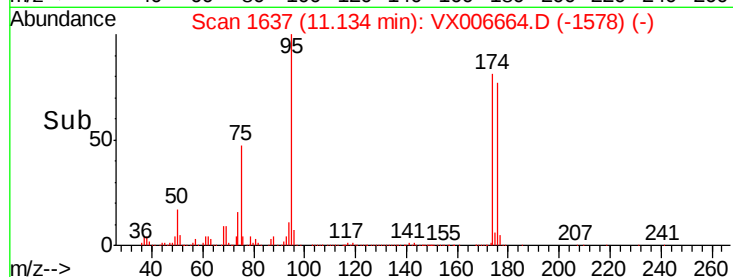
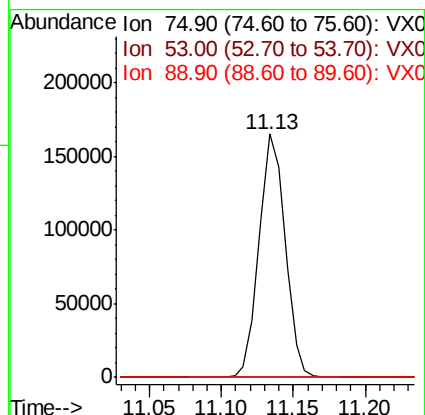
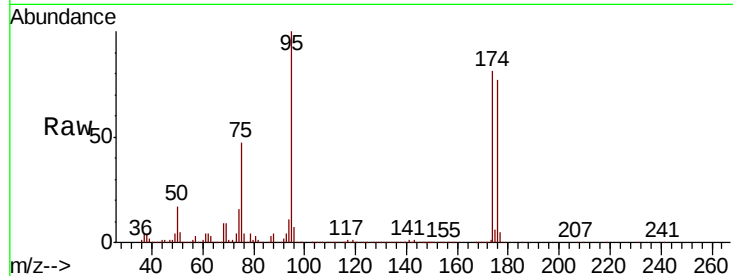




#81
trans-1,4-Dichloro-2-butene
Concen: 72.033 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX006664.D
Acq: 20 Dec 2018 10:01

Instrument :
MSVOA_X
ClientSampleId :
TB-01-181218

Tot Ion: 75 Resp: 207071
Ion Ratio Lower Upper
75 100
53 0.0 79.7 119.5#
89 0.0 38.0 57.0#



#90
Hexachloroethane
Concen: 3.298 ug/l
RT: 12.53 min Scan# 1866
Delta R.T. -0.07 min
Lab File: VX006664.D
Acq: 20 Dec 2018 10:01

Tgt Ion:117 Resp: 21
Ion Ratio Lower Upper
117 100
201 128.6 42.9 128.7

