

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122018\
 Data File : VX006701.D
 Acq On : 21 Dec 2018 03:21
 Operator : JC/MD
 Sample : J6514-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BFB

Quant Time: Dec 21 07:48:27 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	616172	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	976356	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	889041	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	416088	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	340033	51.20	ug/l	0.00
Spiked Amount			Recovery	=	102.40%	
35) Dibromofluoromethane	5.51	113	292776	47.42	ug/l	0.00
Spiked Amount			Recovery	=	94.84%	
50) Toluene-d8	8.71	98	1158932	49.79	ug/l	0.00
Spiked Amount			Recovery	=	99.58%	
62) 4-Bromofluorobenzene	11.13	95	411174	48.23	ug/l	0.00
Spiked Amount			Recovery	=	96.46%	

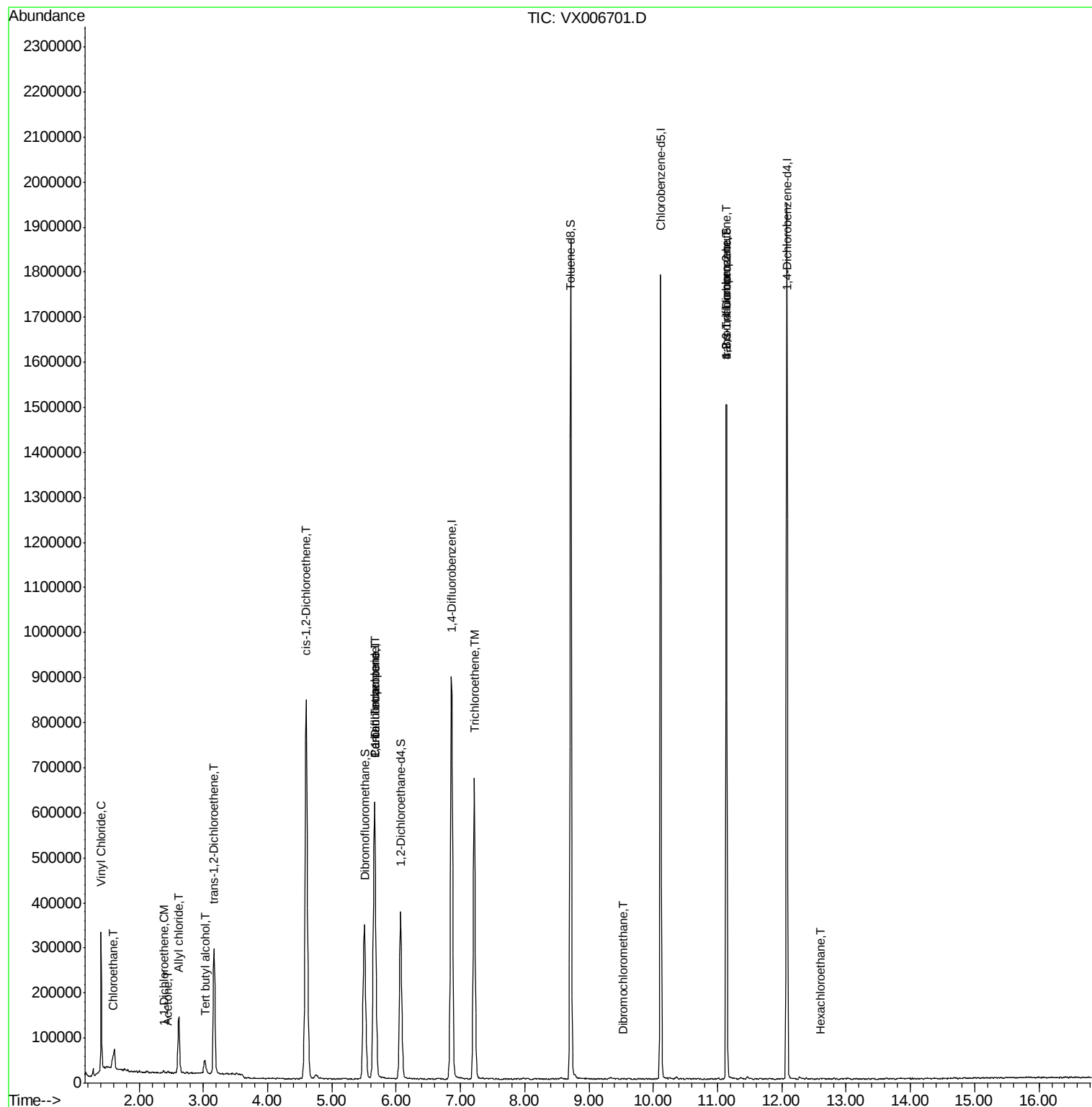
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.41	62	188661	29.745	ug/l	98
5) Bromomethane	1.65	94	652	Below Cal		97
6) Chloroethane	1.59	64	5773	1.315	ug/l #	47
11) Tert butyl alcohol	3.03	59	19464	13.133	ug/l #	76
12) 1,1-Dichloroethene	2.38	96	2135	0.388	ug/l #	64
14) Allyl chloride	2.62	41	13811	1.490	ug/l #	73
16) Acetone	2.45	43	5014	1.643	ug/l #	85
21) trans-1,2-Dichloroethene	3.17	96	117737	19.301	ug/l	99
27) cis-1,2-Dichloroethene	4.60	96	561972	83.501	ug/l	92
28) Bromochloromethane	5.02	49	35	Below Cal	#	66
36) 1,1-Dichloropropene	5.67	75	40138	4.964	ug/l #	49
38) Carbon Tetrachloride	5.66	117	57354	7.298	ug/l #	14
44) Trichloroethene	7.21	130	267150	35.909	ug/l	96
49) 1,4-Dioxane	7.75	88	61	Below Cal	#	1
60) Dibromochloromethane	9.53	129	44	2.330	ug/l	70
76) 1,2,3-Trichloropropane	11.13	75	191452	24.759	ug/l #	41
81) trans-1,4-Dichloro-2-buten	11.13	75	191452	73.203	ug/l #	10
90) Hexachloroethane	12.60	117	127	3.323	ug/l #	6

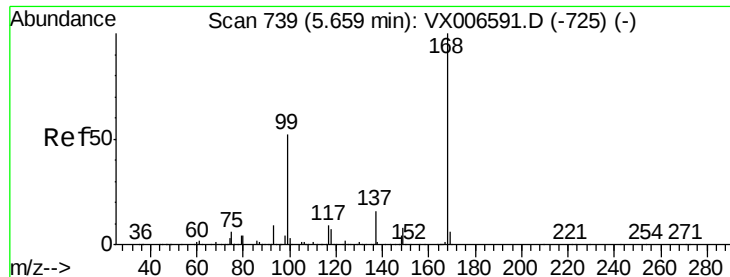
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Dec 19 15:20:58 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006701.D

Acq: 21 Dec 2018 03:21

Instrument :

MSVOA_X

ClientSampled :

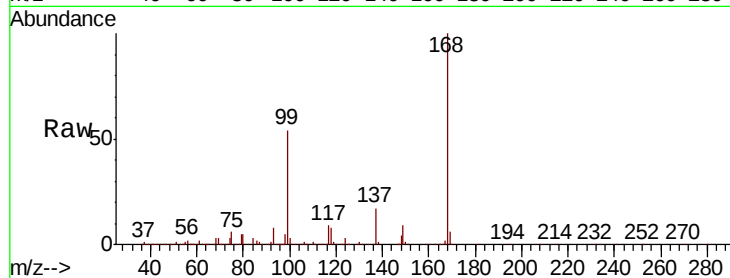
BFB

Tot Ion:168 Resp: 616172

Ion Ratio Lower Upper

168 100

99 53.7 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

200000

150000

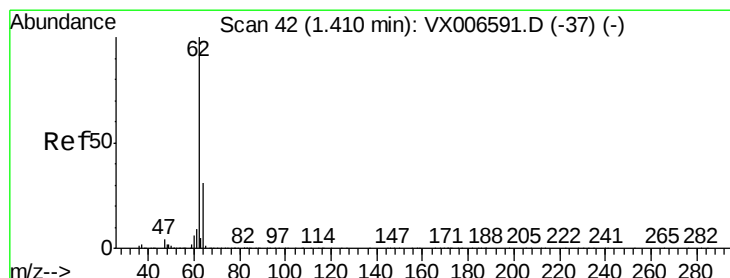
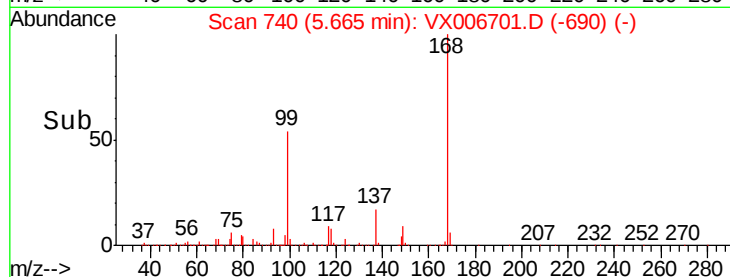
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 29.745 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX006701.D

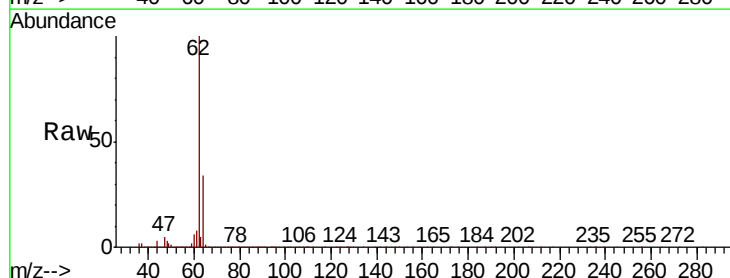
Acq: 21 Dec 2018 03:21

Tgt Ion: 62 Resp: 188661

Ion Ratio Lower Upper

62 100

64 32.6 25.1 37.7



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.41

200000

150000

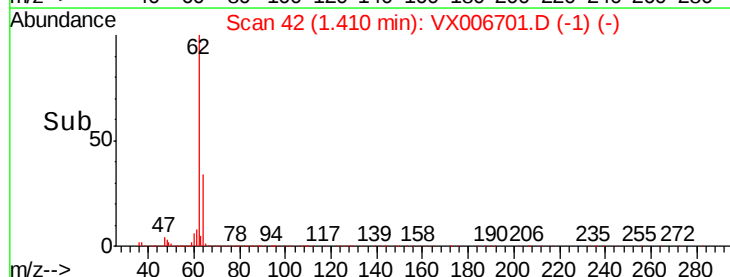
100000

50000

0

Time-->

1.30 1.35 1.40 1.45 1.50





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX006701.D

Acq: 21 Dec 2018 03:21

Instrument :

MSVOA_X

ClientSampleId :

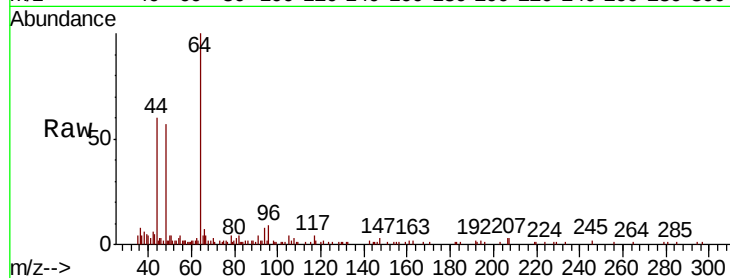
BFB

Tot Ion: 94 Resp: 652

Ion Ratio Lower Upper

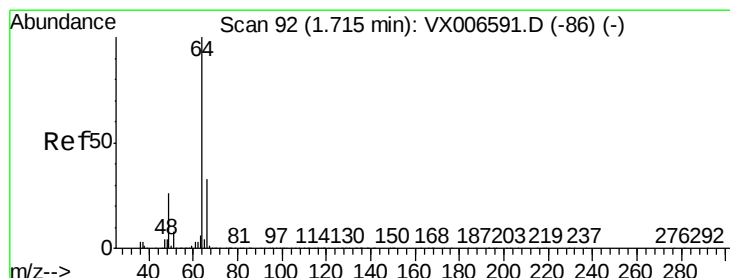
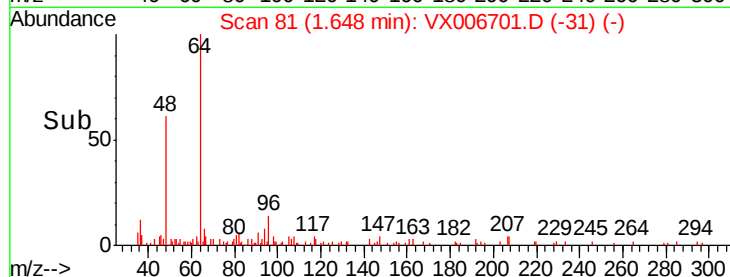
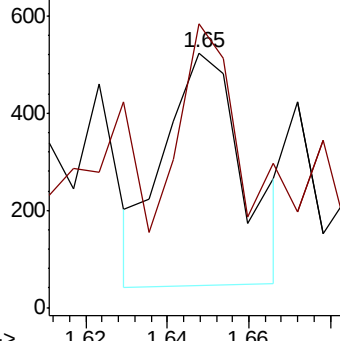
94 100

96 88.9 73.4 110.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 1.315 ug/l

RT: 1.59 min Scan# 72

Delta R.T. -0.12 min

Lab File: VX006701.D

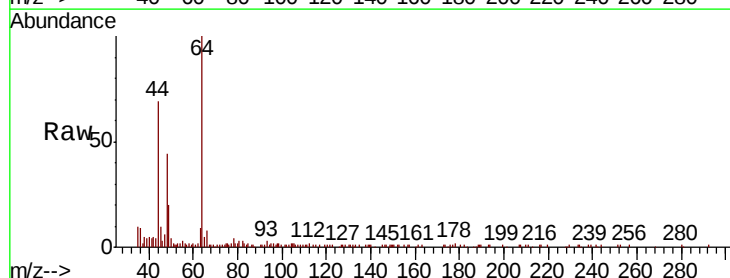
Acq: 21 Dec 2018 03:21

Tgt Ion: 64 Resp: 5773

Ion Ratio Lower Upper

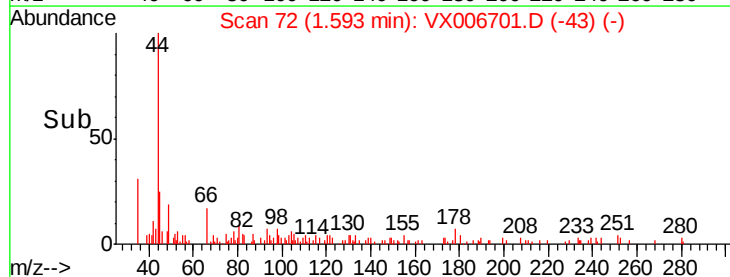
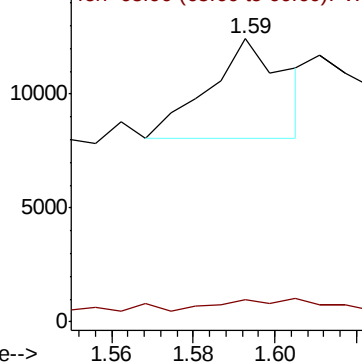
64 100

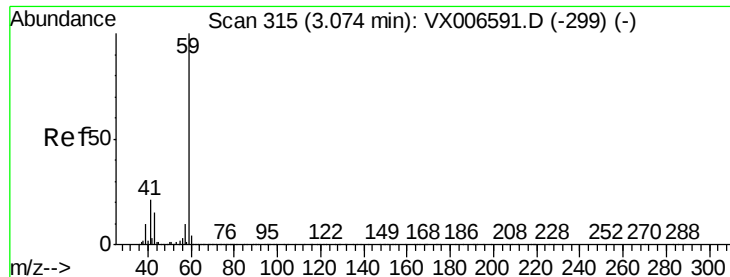
66 3.0 26.4 39.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



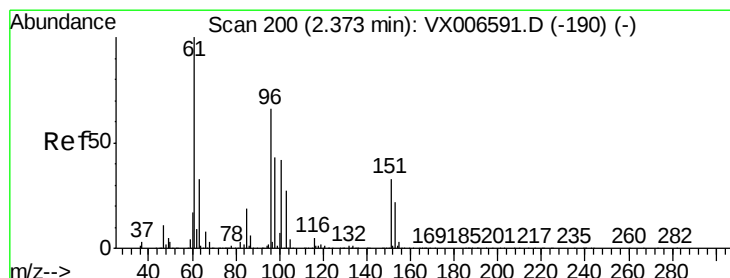
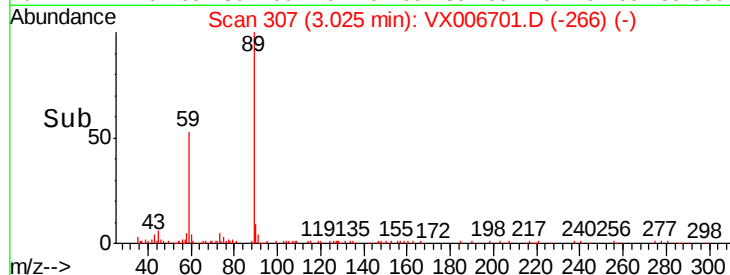
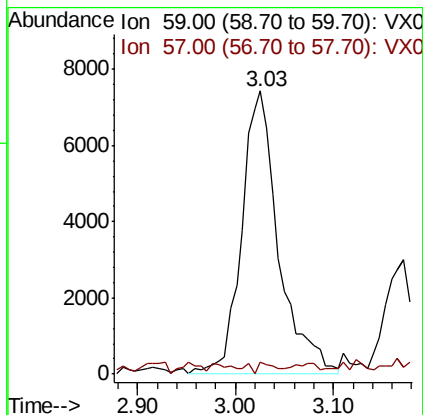
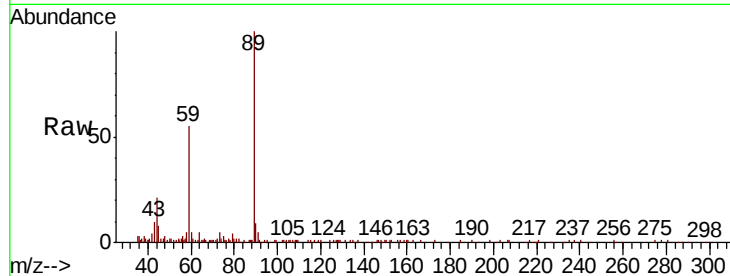


#11

Tert butyl alcohol
 Concen: 13.133 ug/l
 RT: 3.03 min Scan# 307
 Delta R.T. -0.05 min
 Lab File: VX006701.D
 Acq: 21 Dec 2018 03:21

Instrument :
 MSVOA_X
 ClientSampleId :
 BFB

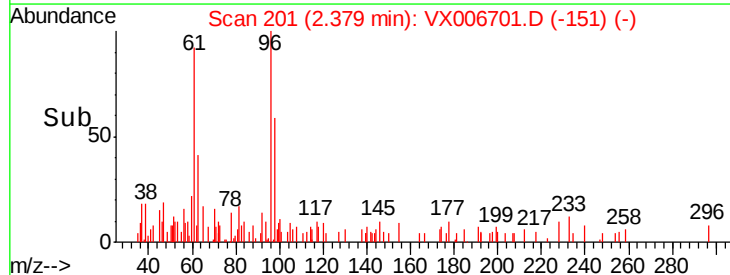
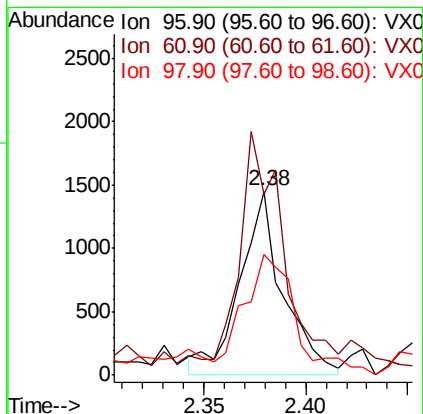
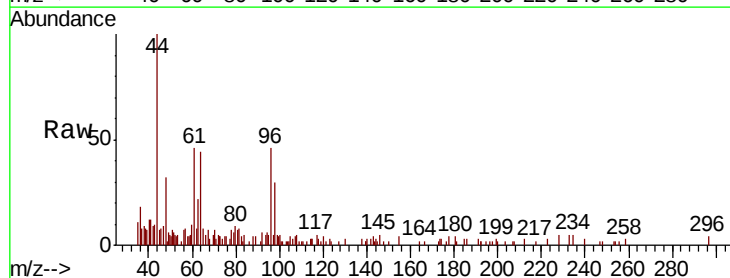
Tot Ion: 59 Resp: 19464
 Ion Ratio Lower Upper
 59 100
 57 1.7 8.5 12.7#

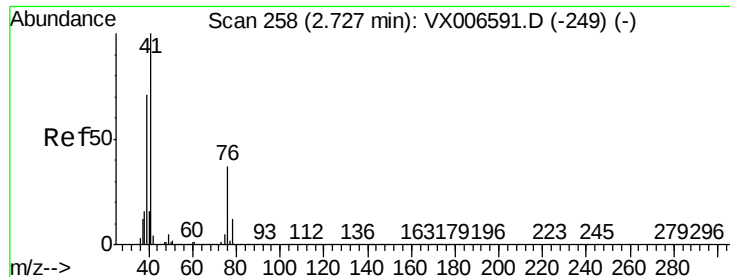


#12

1,1-Dichloroethene
 Concen: 0.388 ug/l
 RT: 2.38 min Scan# 201
 Delta R.T. 0.01 min
 Lab File: VX006701.D
 Acq: 21 Dec 2018 03:21

Tgt Ion: 96 Resp: 2135
 Ion Ratio Lower Upper
 96 100
 61 90.3 121.4 182.2#
 98 58.2 51.9 77.9





#14

Allvl chloride

Concen: 1.490 ug/l

RT: 2.62 min Scan# 240

Delta R.T. -0.11 min

Lab File: VX006701.D

Acq: 21 Dec 2018 03:21

Instrument :

MSVOA_X

ClientSampleId :

BFB

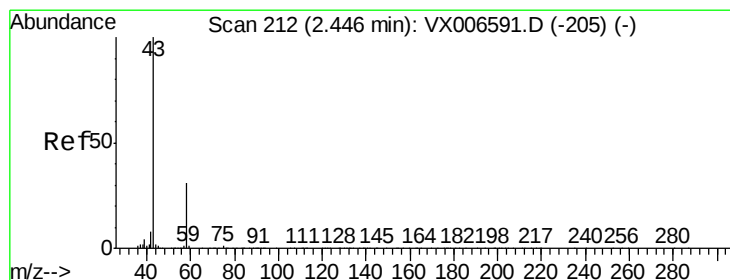
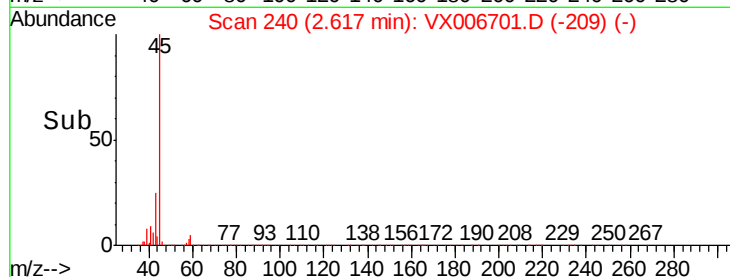
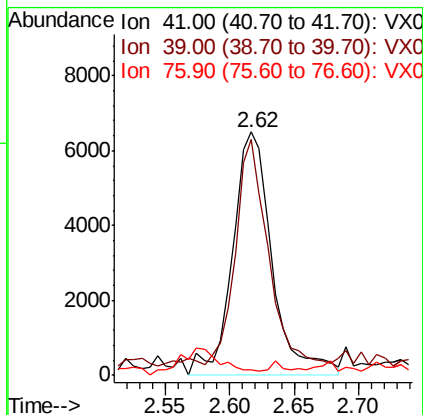
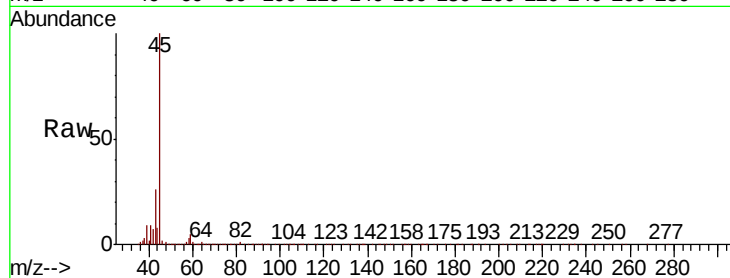
Tot Ion: 41 Resp: 13811

Ion Ratio Lower Upper

41 100

39 75.4 53.6 80.4

76 0.9 27.4 41.2#



#16

Acetone

Concen: 1.643 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX006701.D

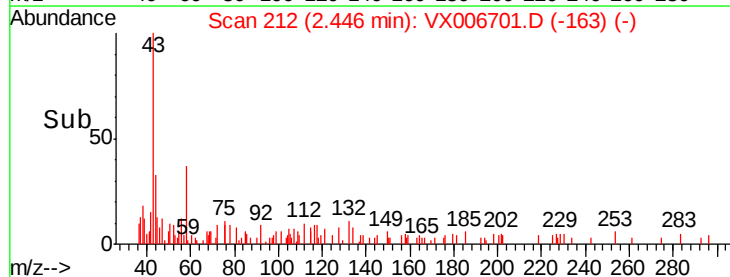
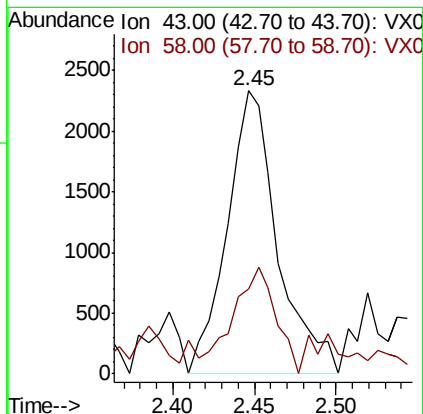
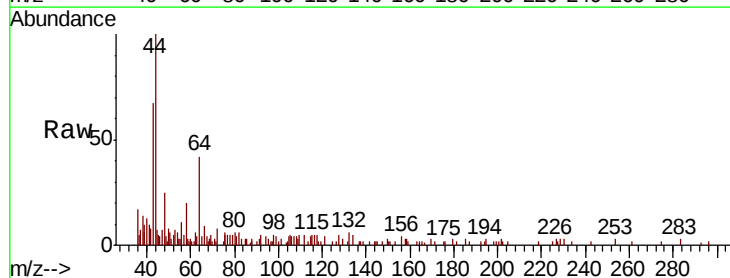
Acq: 21 Dec 2018 03:21

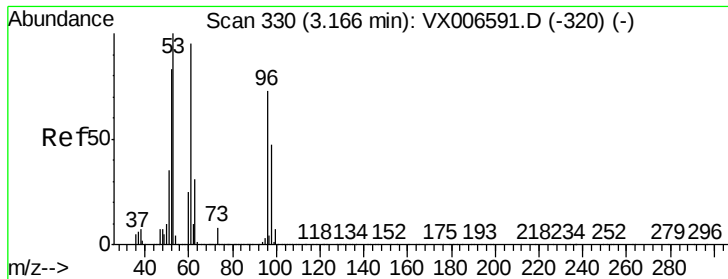
Tgt Ion: 43 Resp: 5014

Ion Ratio Lower Upper

43 100

58 23.3 25.0 37.6#





#21

trans-1,2-Dichloroethene

Concen: 19.301 ug/l

RT: 3.17 min Scan# 330

Delta R.T. -0.00 min

Lab File: VX006701.D

Acq: 21 Dec 2018 03:21

Instrument :

MSVOA_X

ClientSampleId :

BFB

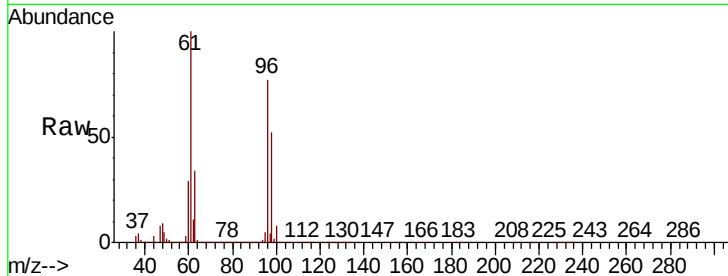
Tot Ion: 96 Resp: 117737

Ion Ratio Lower Upper

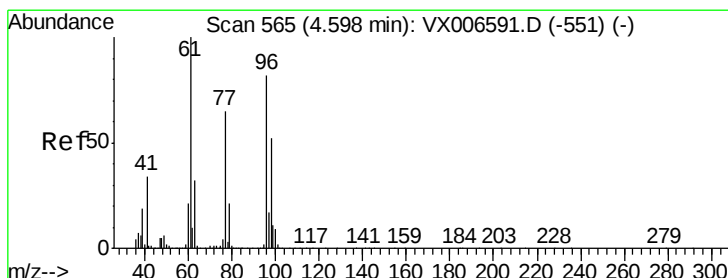
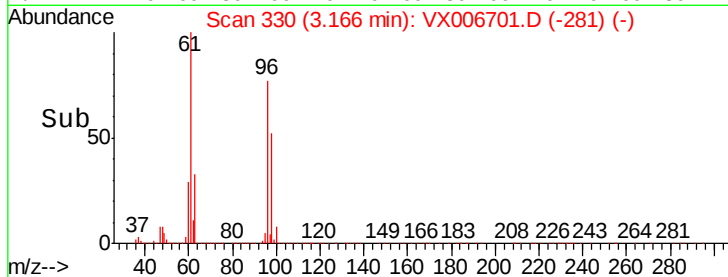
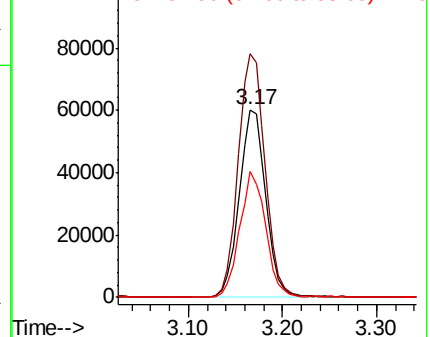
96 100

61 129.6 103.7 155.5

98 67.1 51.0 76.6



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



#27

cis-1,2-Dichloroethene

Concen: 83.501 ug/l

RT: 4.60 min Scan# 565

Delta R.T. -0.00 min

Lab File: VX006701.D

Acq: 21 Dec 2018 03:21

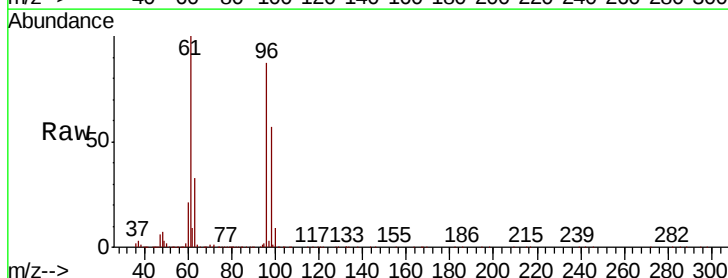
Tgt Ion: 96 Resp: 561972

Ion Ratio Lower Upper

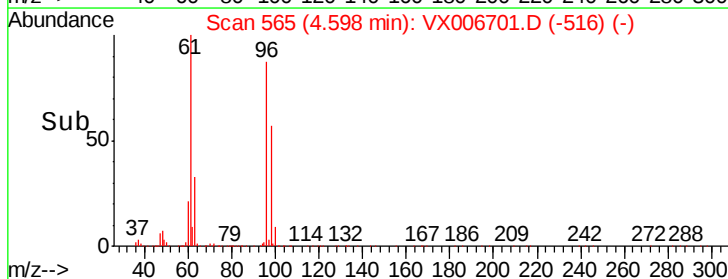
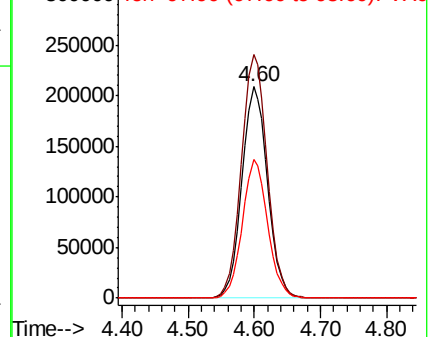
96 100

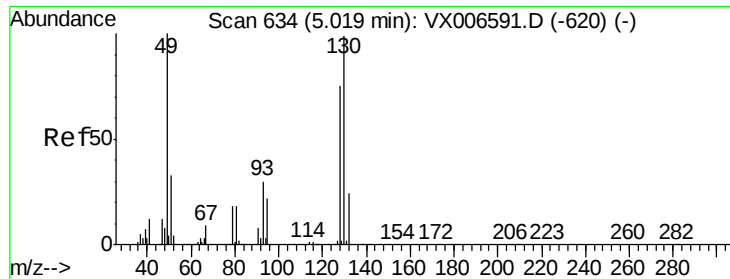
61 115.6 0.0 258.6

98 64.7 0.0 132.0



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





#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 634

Delta R.T. -0.00 min

Lab File: VX006701.D

Acq: 21 Dec 2018 03:21

Instrument :

MSVOA_X

ClientSampleId :

BFB

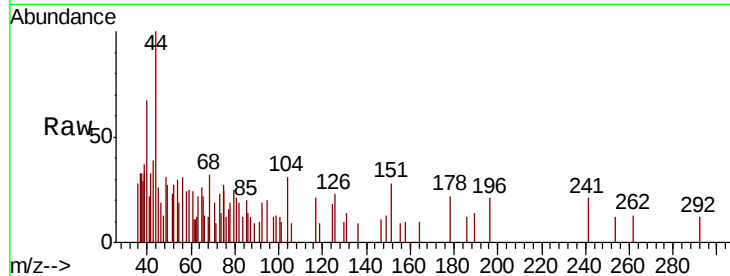
Tot Ion: 49 Resp: 35

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.4

130 62.9 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

5.02

150

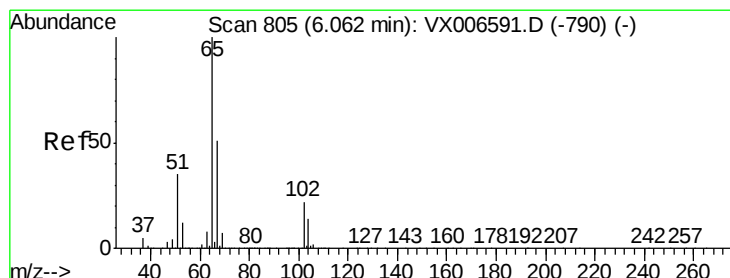
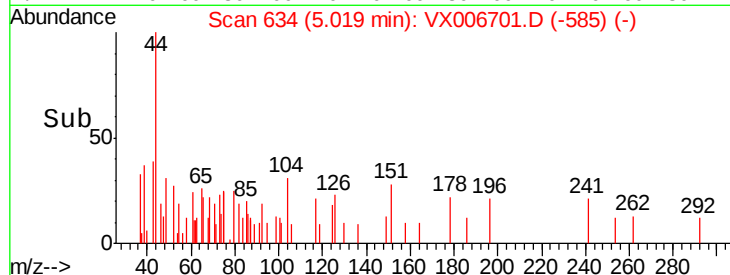
100

50

0

5.01 5.01 5.02 5.03

Time-->



#33

1,2-Dichloroethane-d4

Concen: 51.203 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006701.D

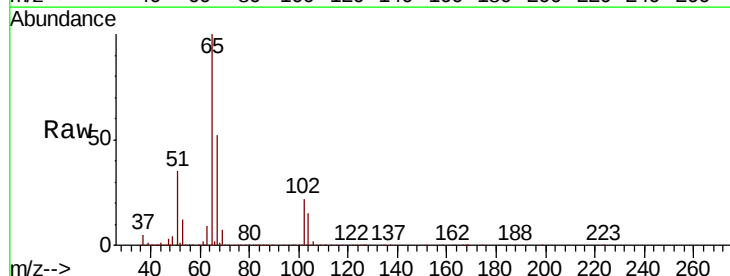
Acq: 21 Dec 2018 03:21

Tgt Ion: 65 Resp: 340033

Ion Ratio Lower Upper

65 100

67 53.1 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

150000

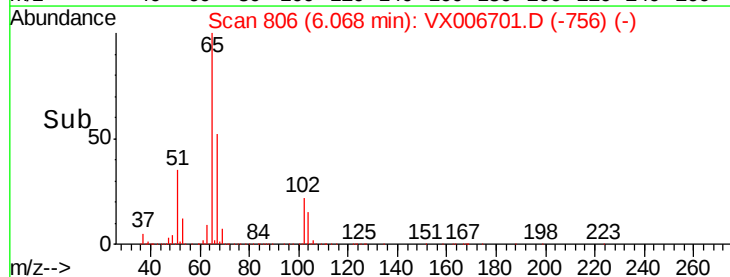
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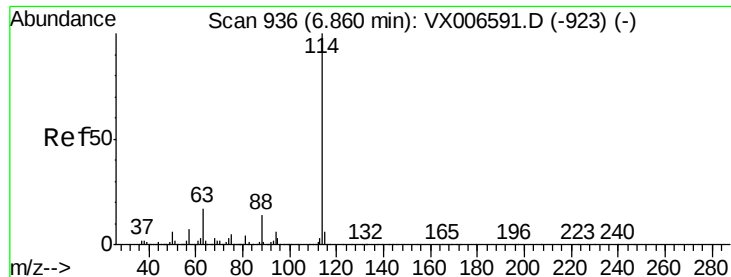
50000

0

6.00 6.00 6.07 6.10 6.20

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006701.D

Acq: 21 Dec 2018 03:21

Instrument :

MSVOA_X

ClientSampled :

BFB

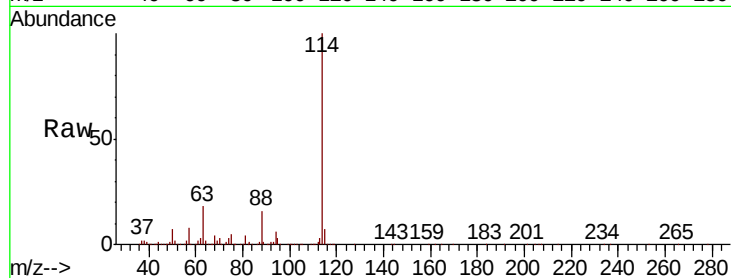
Tot Ion:114 Resp: 976356

Ion Ratio Lower Upper

114 100

63 18.2 0.0 34.8

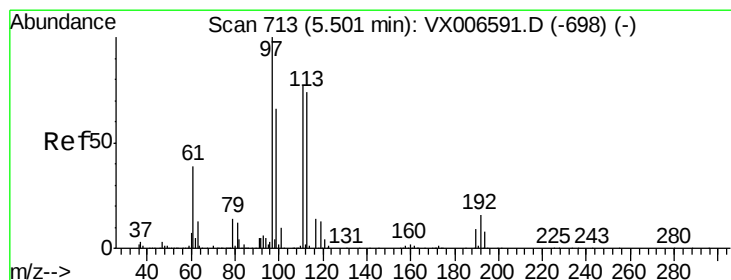
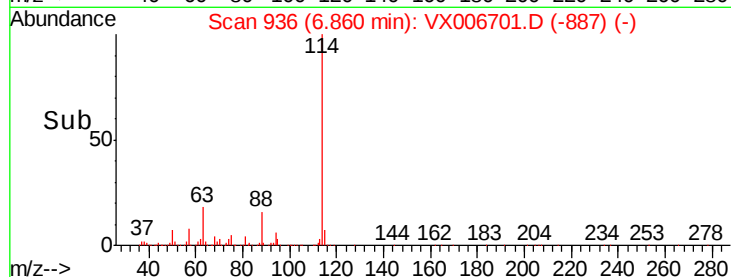
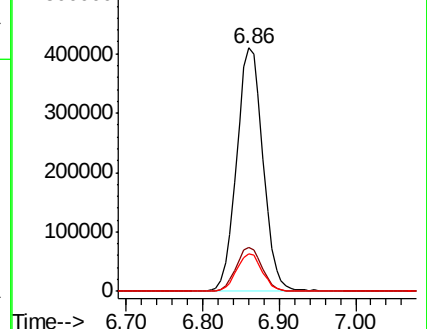
88 15.5 0.0 28.8



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



#35

Dibromofluoromethane

Concen: 47.419 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006701.D

Acq: 21 Dec 2018 03:21

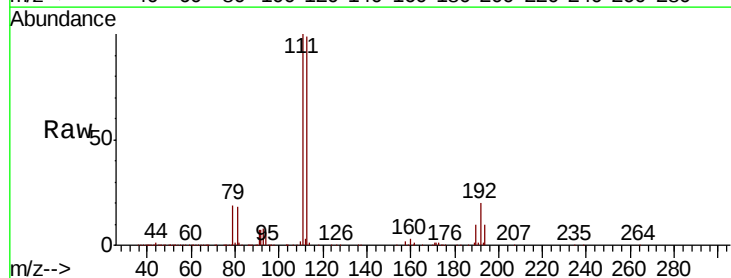
Tgt Ion:113 Resp: 292776

Ion Ratio Lower Upper

113 100

111 102.0 81.6 122.4

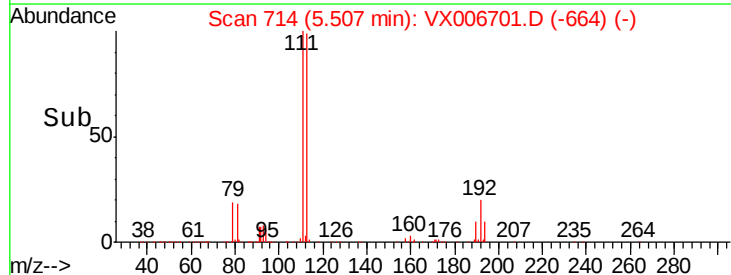
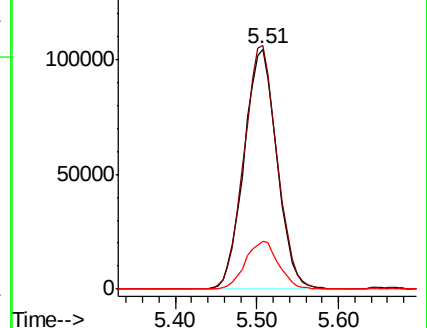
192 20.2 16.7 25.1

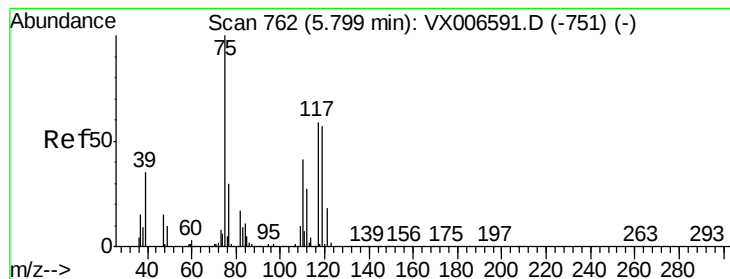


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.964 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006701.D

Acq: 21 Dec 2018 03:21

Instrument :

MSVOA_X

ClientSampleId :

BFB

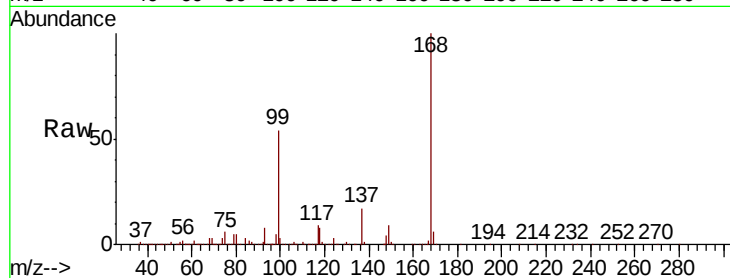
Tot Ion: 75 Resp: 40138

Ion Ratio Lower Upper

75 100

110 11.2 20.2 60.5#

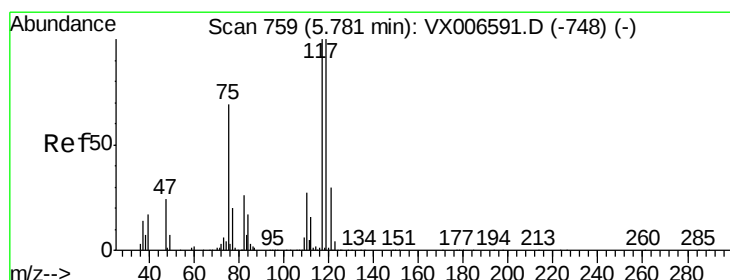
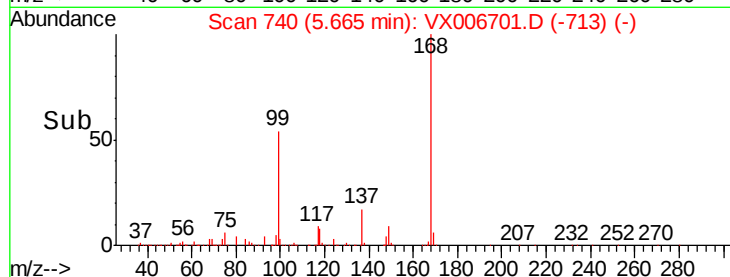
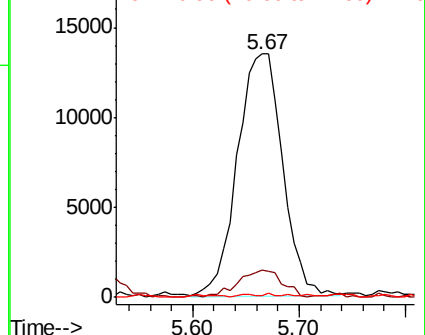
77 0.3 24.8 37.2#



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: 7.298 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX006701.D

Acq: 21 Dec 2018 03:21

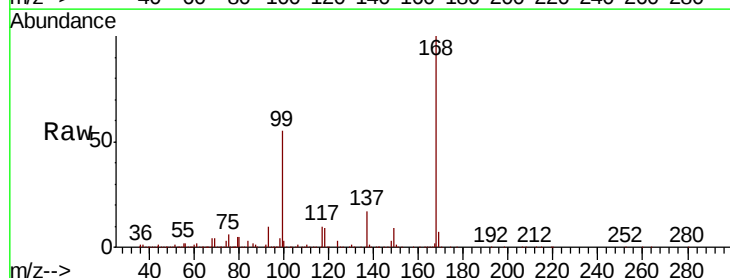
Tgt Ion:117 Resp: 57354

Ion Ratio Lower Upper

117 100

119 4.1 79.4 119.2#

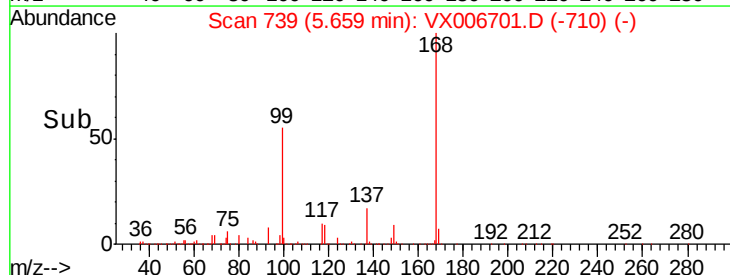
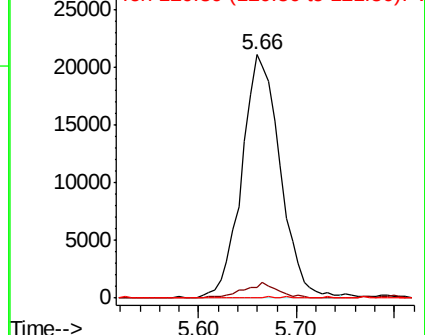
121 0.0 24.0 36.0#

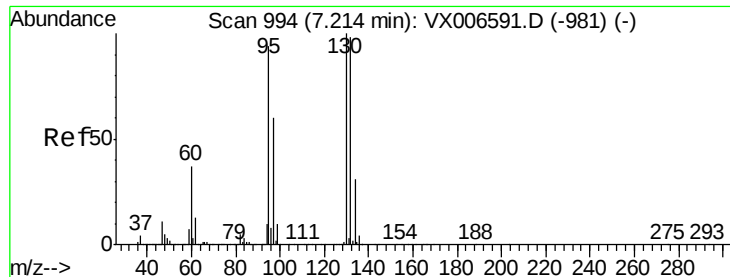


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 35.909 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX006701.D

Acq: 21 Dec 2018 03:21

Instrument :

MSVOA_X

ClientSampleId :

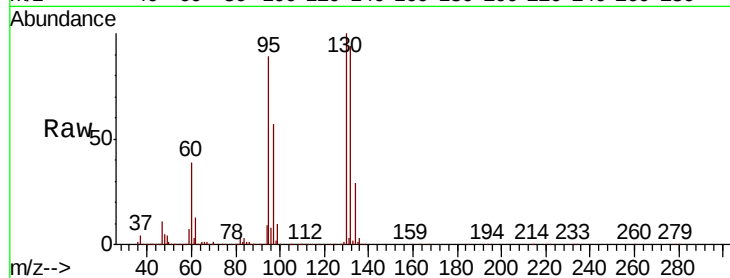
BFB

Tot Ion:130 Resp: 267150

Ion Ratio Lower Upper

130 100

95 89.3 0.0 187.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

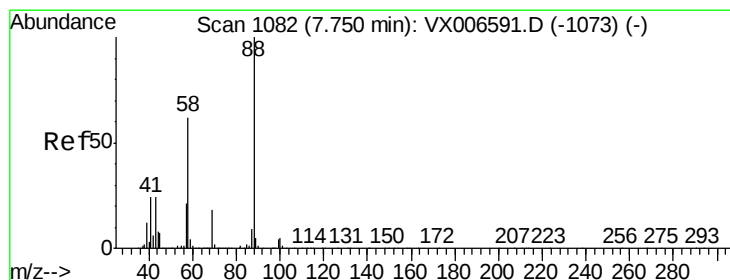
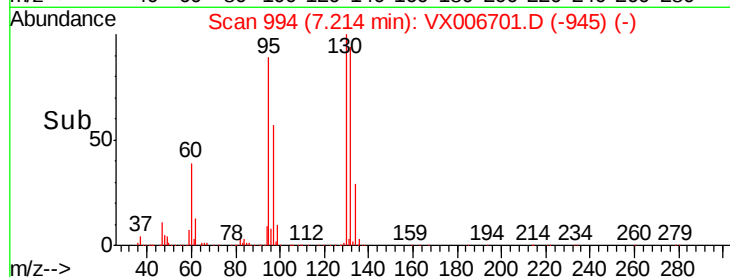
150000

100000

50000

0

Time-->



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.75 min Scan# 1082

Delta R.T. 0.00 min

Lab File: VX006701.D

Acq: 21 Dec 2018 03:21

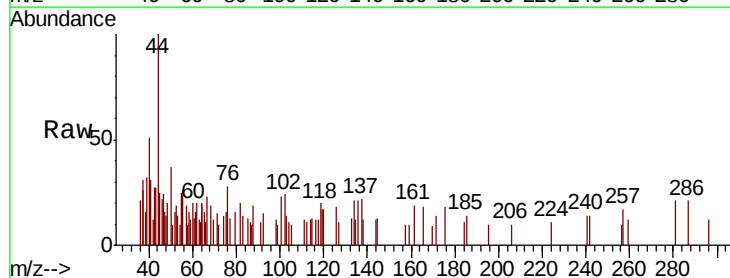
Tgt Ion: 88 Resp: 61

Ion Ratio Lower Upper

88 100

43 313.1 22.2 33.4#

58 318.0 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

400

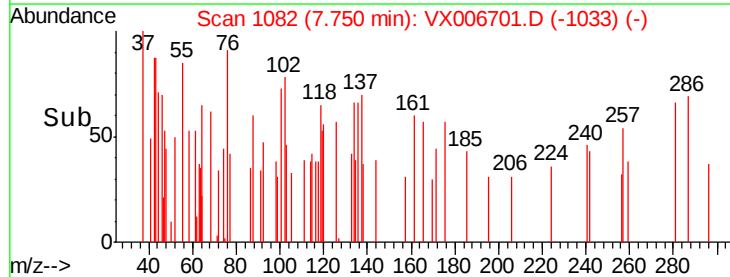
300

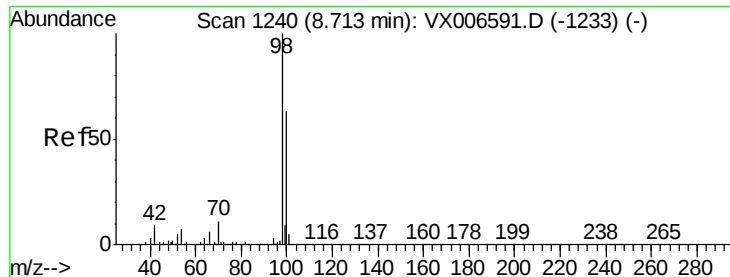
200

100

0

Time-->





#50

Toluene-d8

Concen: 49.788 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006701.D

Acq: 21 Dec 2018 03:21

Instrument :

MSVOA_X

ClientSampleId :

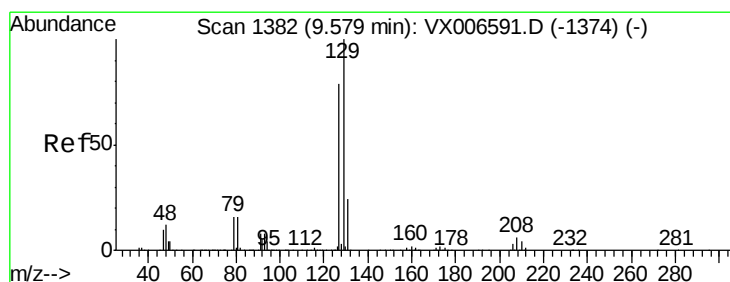
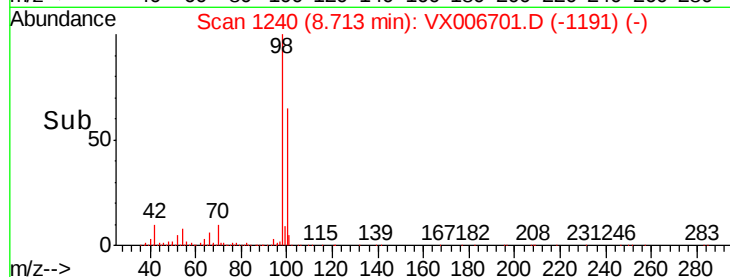
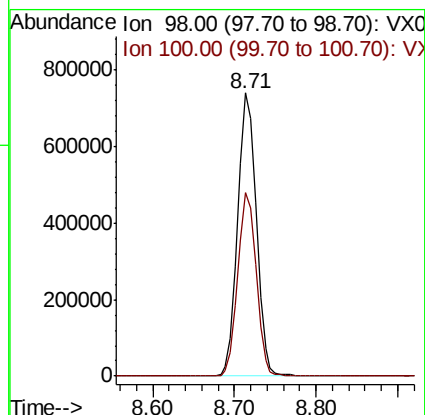
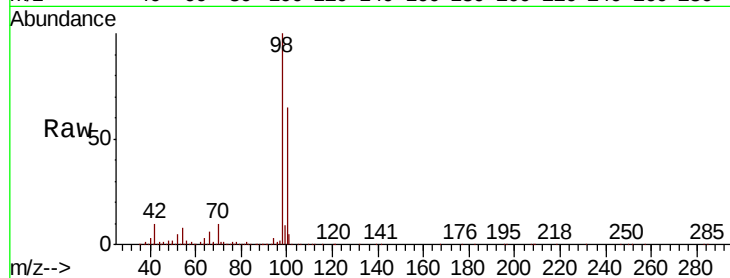
BFB

Tot Ion: 98 Resp: 1158932

Ion Ratio Lower Upper

98 100

100 64.3 52.0 78.0



#60

Dibromochloromethane

Concen: 2.330 ug/l

RT: 9.53 min Scan# 1374

Delta R.T. -0.05 min

Lab File: VX006701.D

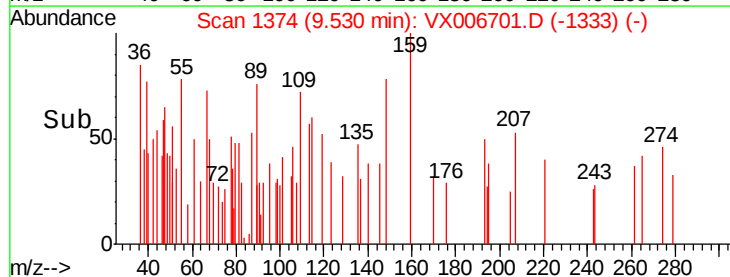
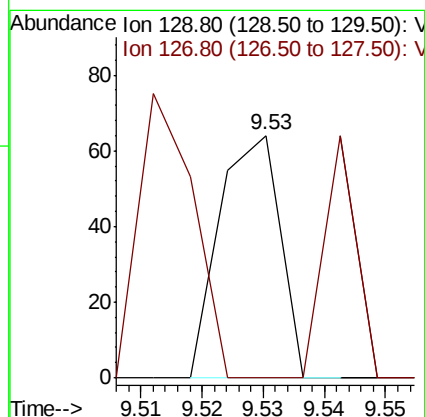
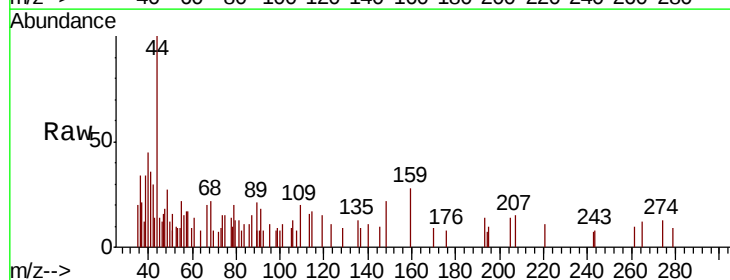
Acq: 21 Dec 2018 03:21

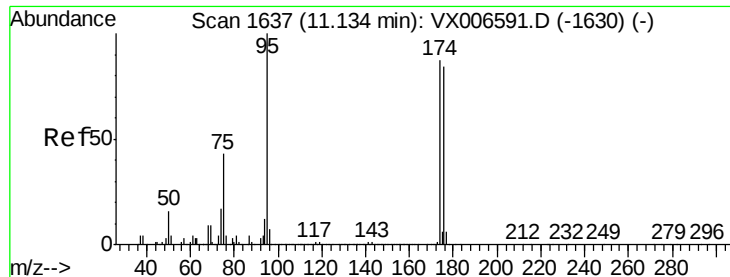
Tgt Ion:129 Resp: 44

Ion Ratio Lower Upper

129 100

127 52.3 39.3 117.8





#62

4-Bromofluorobenzene

Concen: 48.231 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX006701.D

Acq: 21 Dec 2018 03:21

Instrument :

MSVOA_X

ClientSampleId :

BFB

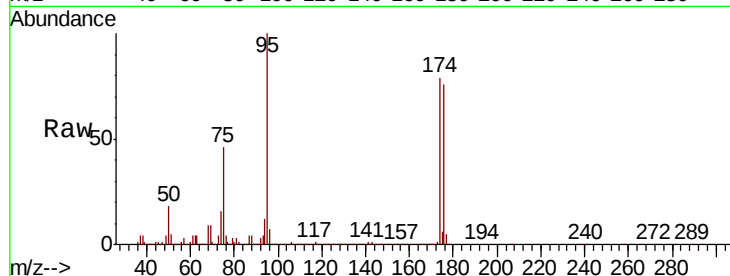
Tot Ion: 95 Resp: 411174

Ion Ratio Lower Upper

95 100

174 85.4 0.0 182.2

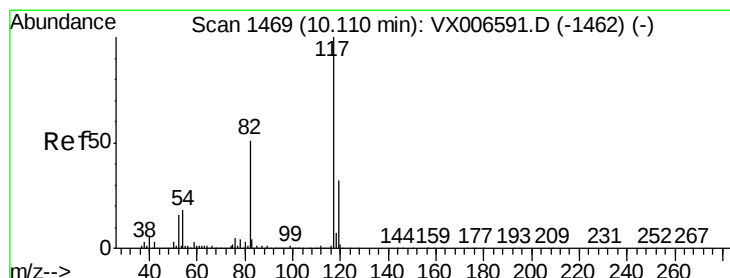
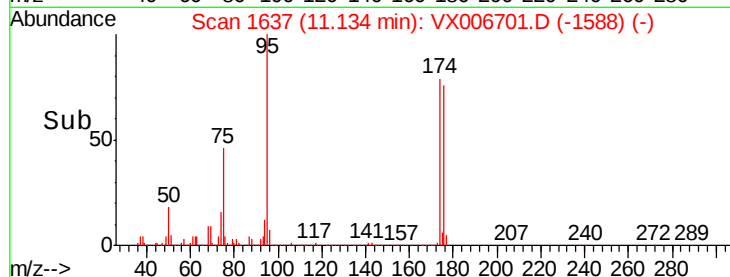
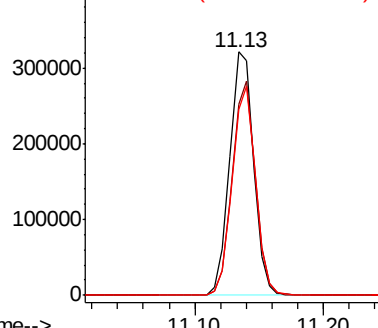
176 83.7 0.0 178.8



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: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX006701.D

Acq: 21 Dec 2018 03:21

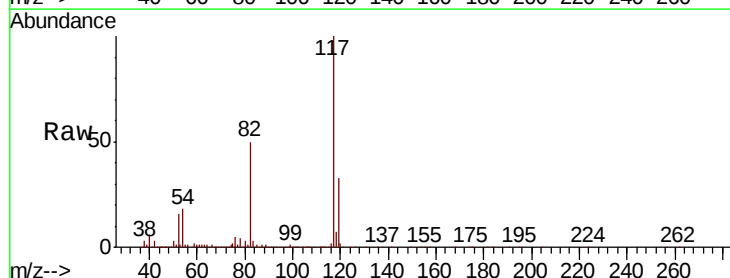
Tgt Ion: 117 Resp: 889041

Ion Ratio Lower Upper

117 100

82 50.3 41.0 61.6

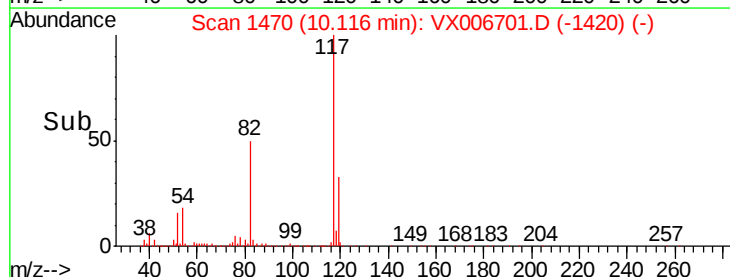
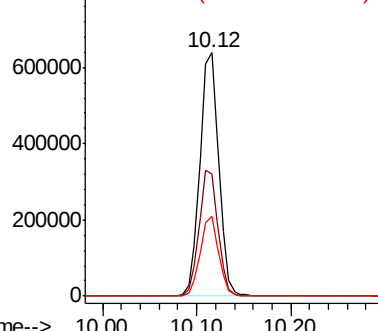
119 32.8 25.4 38.0

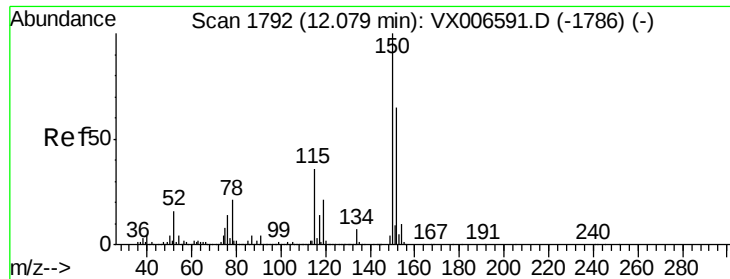


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



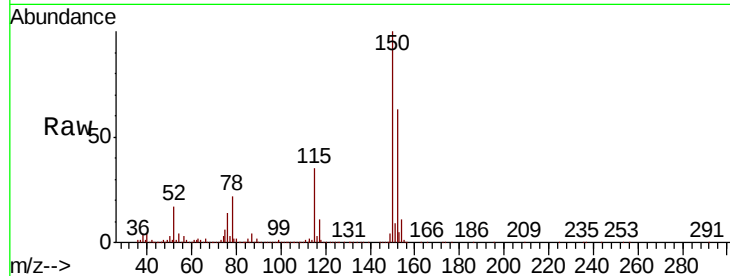


#72

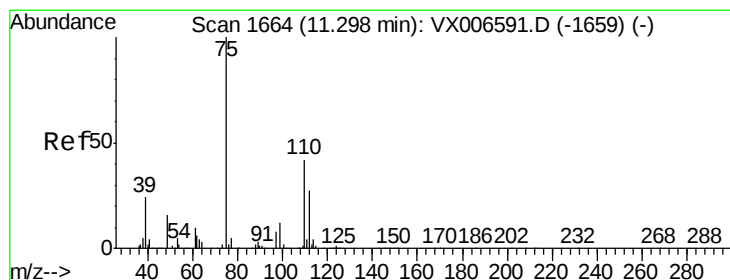
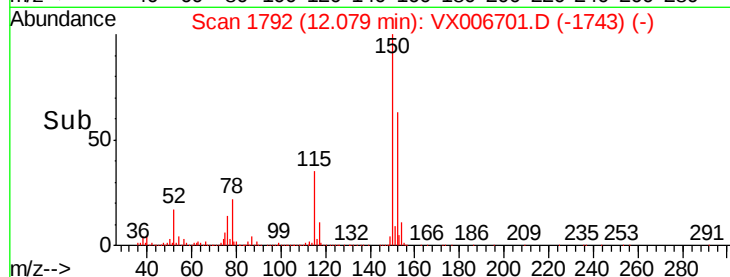
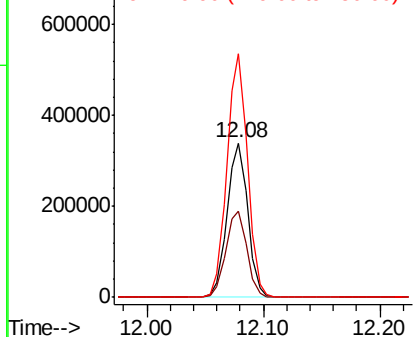
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX006701.D
Acq: 21 Dec 2018 03:21

Instrument :
MSVOA_X
ClientSampleId :
BFB

Tot Ion:152 Resp: 416088
Ion Ratio Lower Upper
152 100
115 56.6 39.1 117.2
150 157.0 0.0 344.8



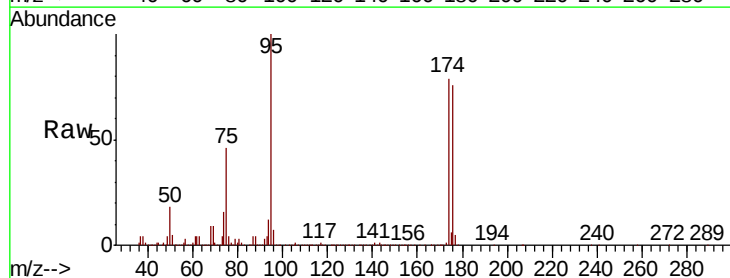
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



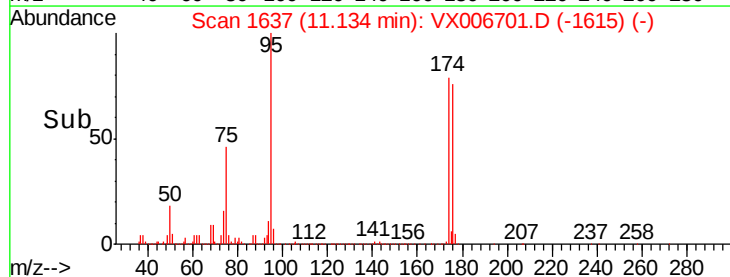
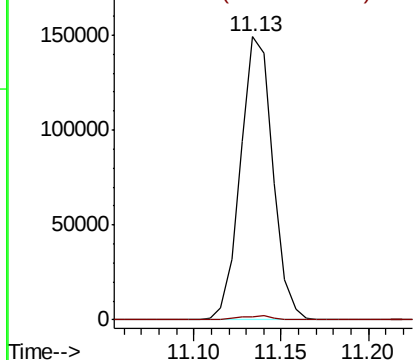
#76

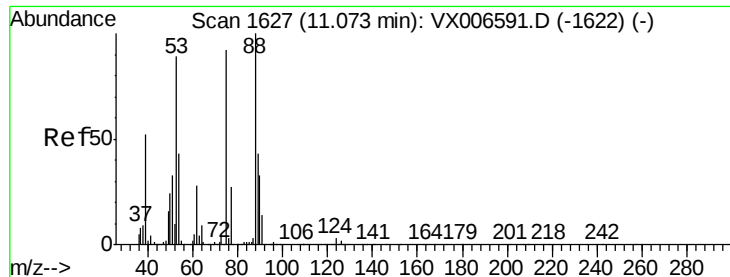
1,2,3-Trichloropropane
Concen: 24.759 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX006701.D
Acq: 21 Dec 2018 03:21

Tgt Ion: 75 Resp: 191452
Ion Ratio Lower Upper
75 100
77 1.6 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: 73.203 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006701.D

Acq: 21 Dec 2018 03:21

Instrument :

MSVOA_X

ClientSampleId :

BFB

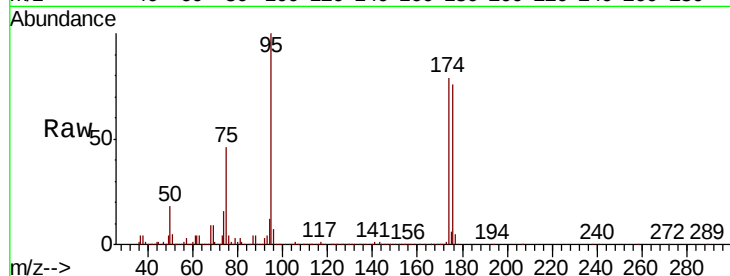
Tot Ion: 75 Resp: 191452

Ion Ratio Lower Upper

75 100

53 0.3 79.7 119.5#

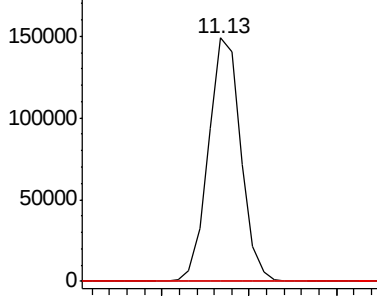
89 0.1 38.0 57.0#



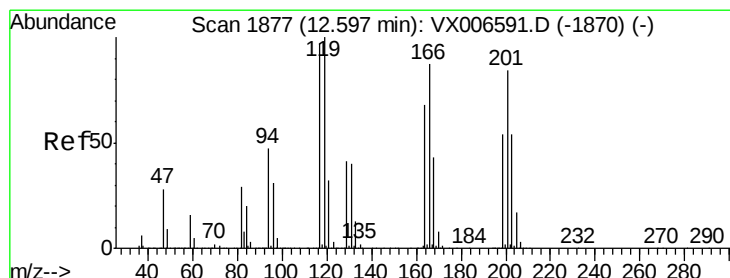
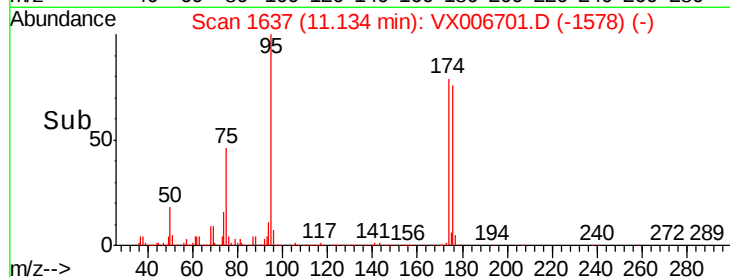
Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



Time-->



#90

Hexachloroethane

Concen: 3.323 ug/l

RT: 12.60 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VX006701.D

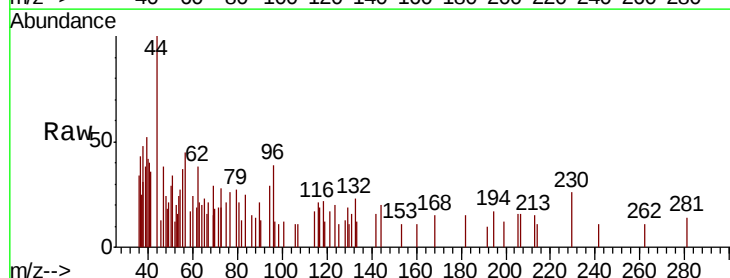
Acq: 21 Dec 2018 03:21

Tgt Ion: 117 Resp: 127

Ion Ratio Lower Upper

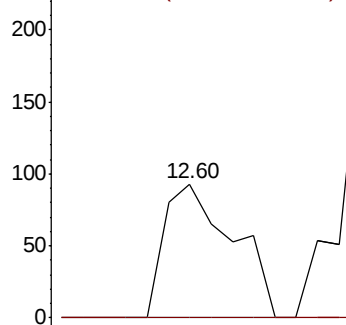
117 100

201 0.0 42.9 128.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



Time-->

