

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121818\
 Data File : VX006618.D
 Acq On : 19 Dec 2018 01:11
 Operator : JC/MD
 Sample : J6408-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA.PZ13811-20181208

Quant Time: Dec 19 06:06:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:23:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	663435	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1049919	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	966664	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	459183	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	364287	50.95	ug/l	0.00
Spiked Amount			Recovery	=	101.90%	
35) Dibromofluoromethane	5.50	113	315439	47.51	ug/l	0.00
Spiked Amount			Recovery	=	95.02%	
50) Toluene-d8	8.71	98	1245874	49.77	ug/l	0.00
Spiked Amount			Recovery	=	99.54%	
62) 4-Bromofluorobenzene	11.13	95	455054	49.64	ug/l	0.00
Spiked Amount			Recovery	=	99.28%	

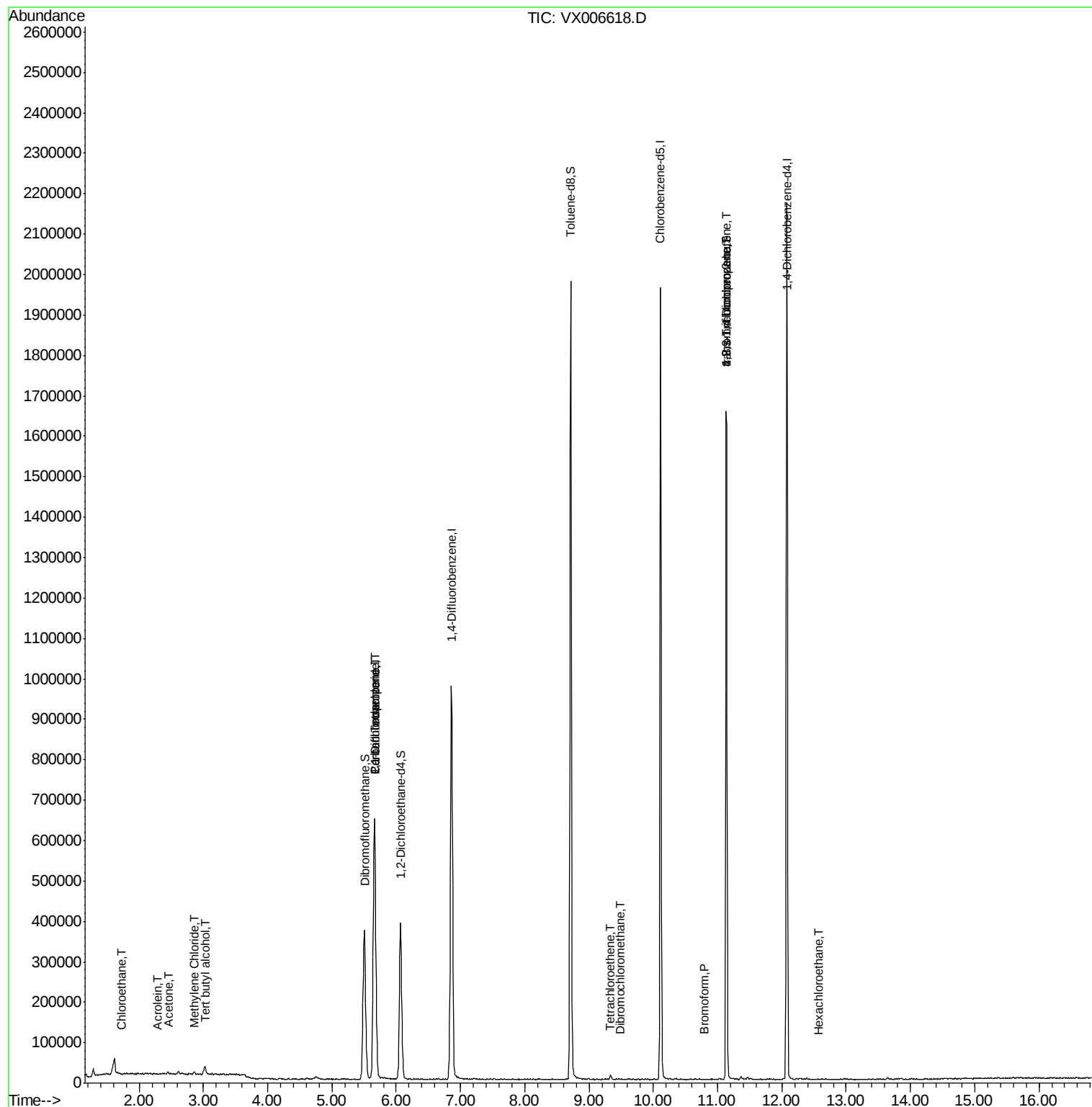
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	818	Below Cal		91
6) Chloroethane	1.73	64	1414	0.299	ug/l #	88
11) Tert butyl alcohol	3.02	59	12378	7.757	ug/l #	79
13) Acrolein	2.28	56	300	0.279	ug/l #	13
16) Acetone	2.45	43	5731	1.745	ug/l	91
20) Methylene Chloride	2.86	84	3342	0.492	ug/l	90
28) Bromochloromethane	5.02	49	218	Below Cal	#	58
36) 1,1-Dichloropropene	5.66	75	42380	4.874	ug/l #	49
38) Carbon Tetrachloride	5.67	117	62024	7.339	ug/l #	15
49) 1,4-Dioxane	7.75	88	99	Below Cal	#	1
60) Dibromochloromethane	9.49	129	51	2.331	ug/l #	1
64) Tetrachloroethene	9.34	164	1640	0.214	ug/l	87
71) Bromoform	10.79	173	140	4.482	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	209800	26.069	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.13	75	209800	72.719	ug/l #	15
90) Hexachloroethane	12.57	117	71	3.308	ug/l #	5

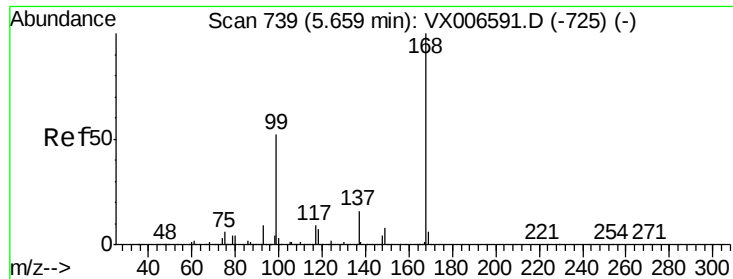
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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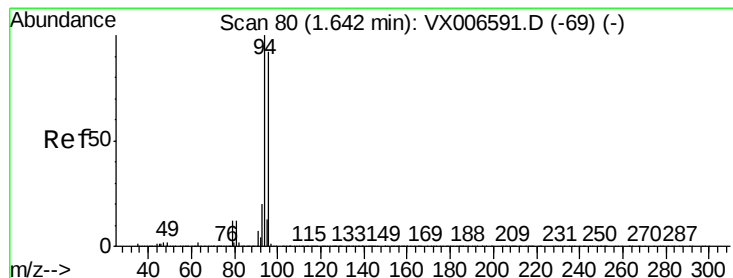
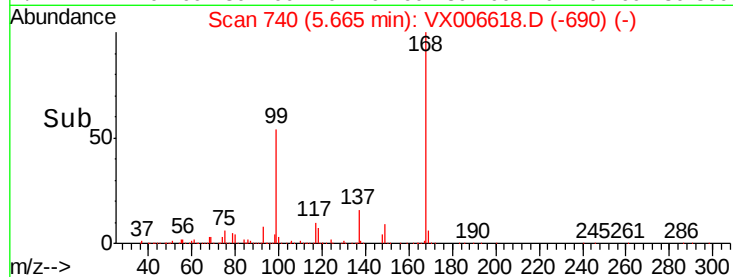
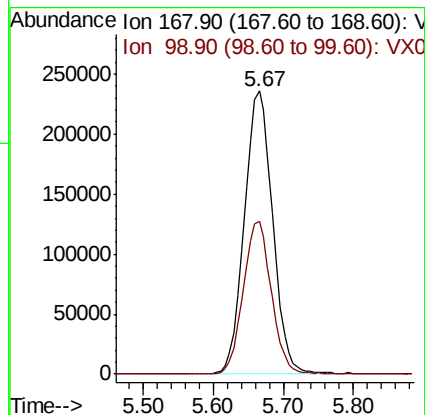
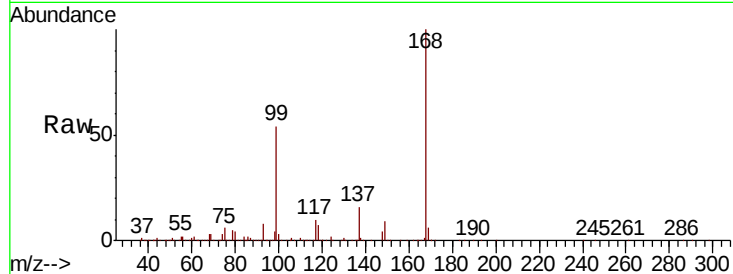


#1

Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. 0.01 min
 Lab File: VX006618.D
 Acq: 19 Dec 2018 01:11

Instrument :
 MSVOA_X
 ClientSampleId :
 SA.PZ138I1-20181208

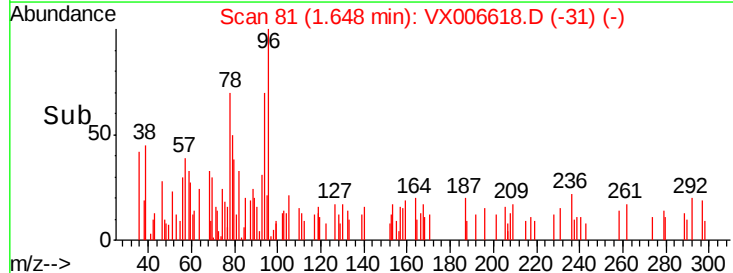
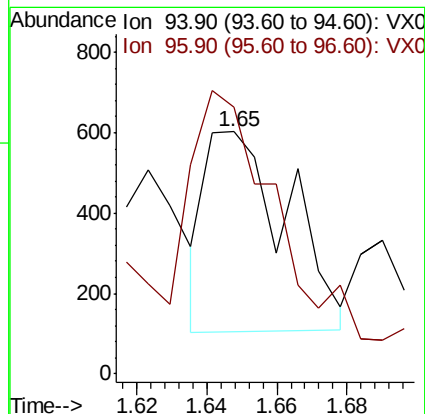
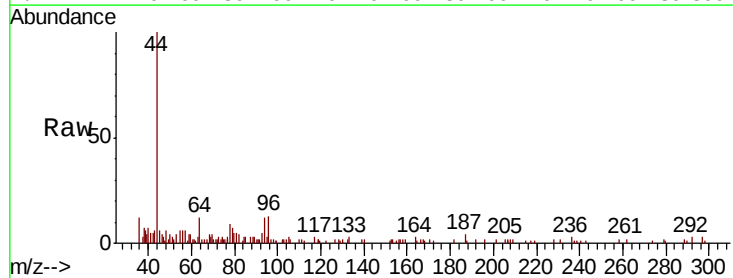
Tot Ion:168 Resp: 663435
 Ion Ratio Lower Upper
 168 100
 99 54.0 37.8 56.8

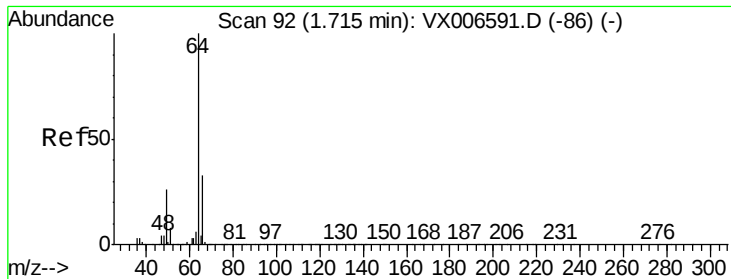


#5

Bromomethane
 Concen: Below Cal
 RT: 1.65 min Scan# 81
 Delta R.T. 0.01 min
 Lab File: VX006618.D
 Acq: 19 Dec 2018 01:11

Tgt Ion: 94 Resp: 818
 Ion Ratio Lower Upper
 94 100
 96 101.6 74.5 111.7





#6

Chloroethane

Concen: 0.299 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX006618.D

Acq: 19 Dec 2018 01:11

Instrument :

MSVOA_X

ClientSampleId :

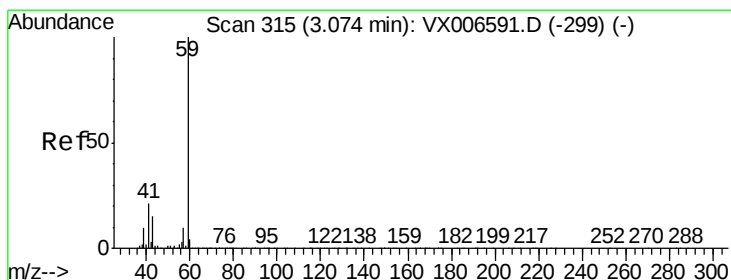
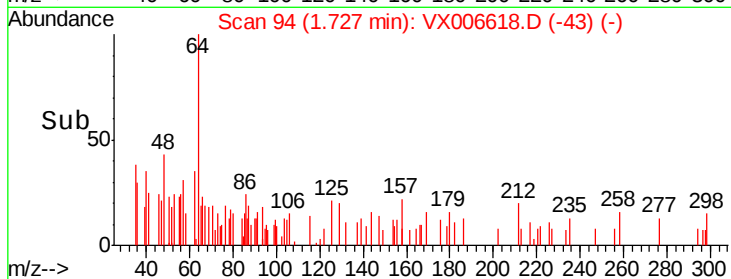
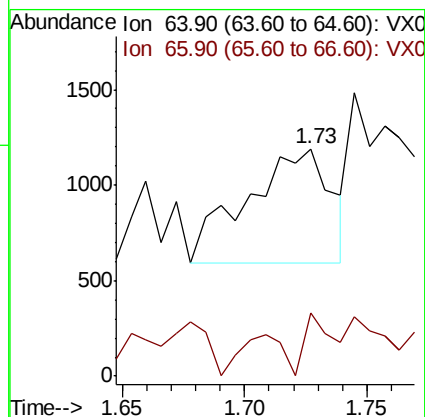
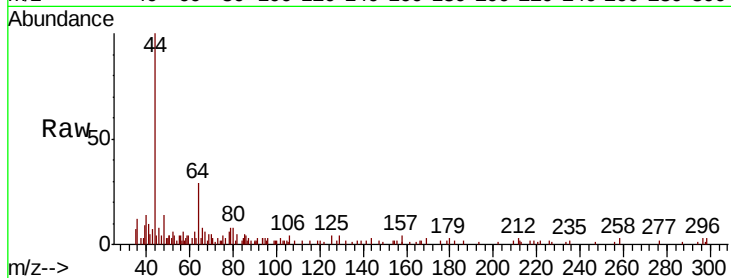
SA.PZ13811-20181208

Tot Ion: 64 Resp: 1414

Ion Ratio Lower Upper

64 100

66 25.9 25.9 38.9#



#11

Tert butyl alcohol

Concen: 7.757 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.06 min

Lab File: VX006618.D

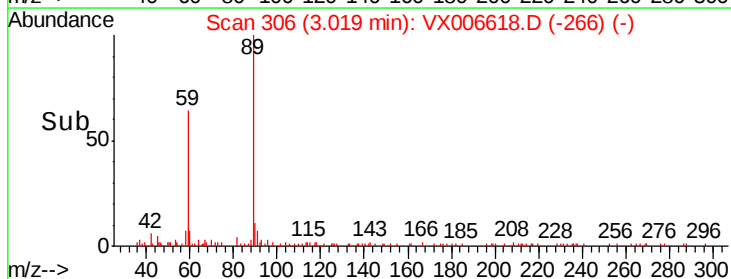
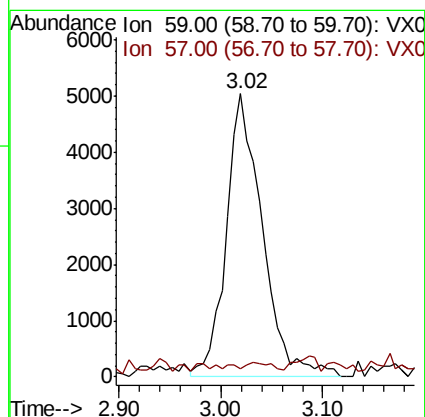
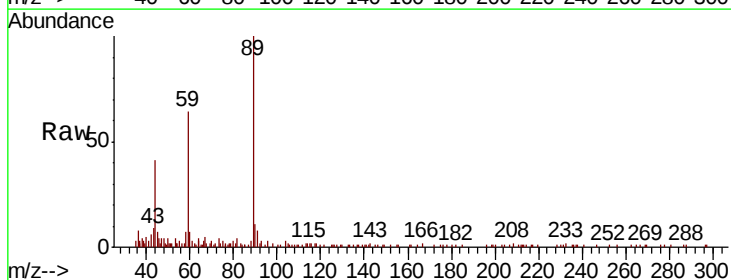
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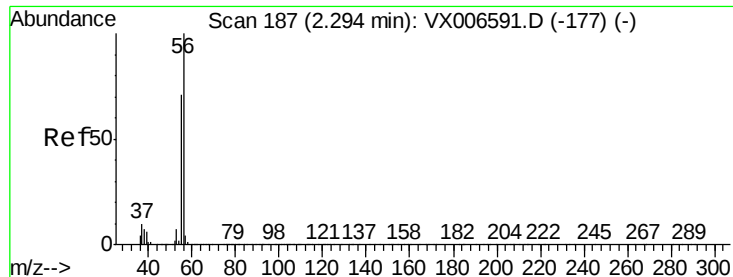
Tgt Ion: 59 Resp: 12378

Ion Ratio Lower Upper

59 100

57 2.4 8.2 12.2#





#13

Acrolein

Concen: 0.279 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX006618.D

Acq: 19 Dec 2018 01:11

Instrument :

MSVOA_X

ClientSampleId :

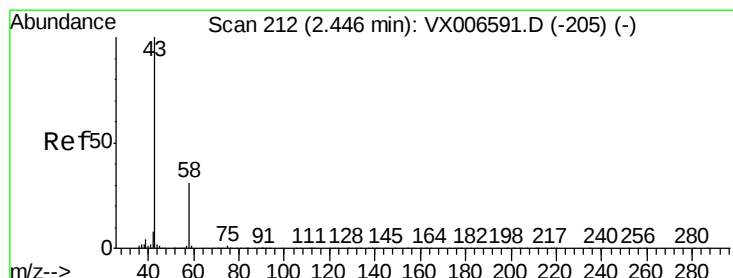
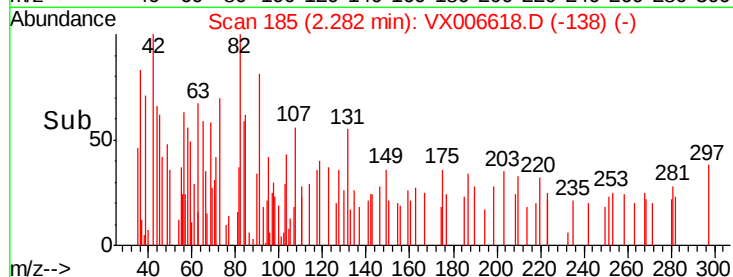
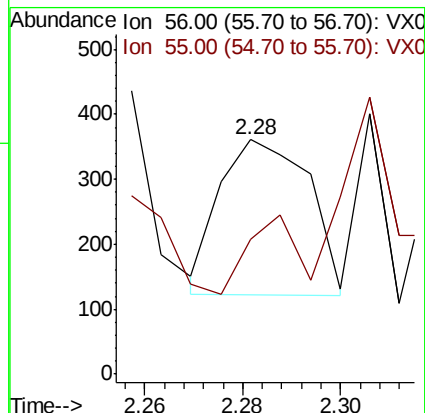
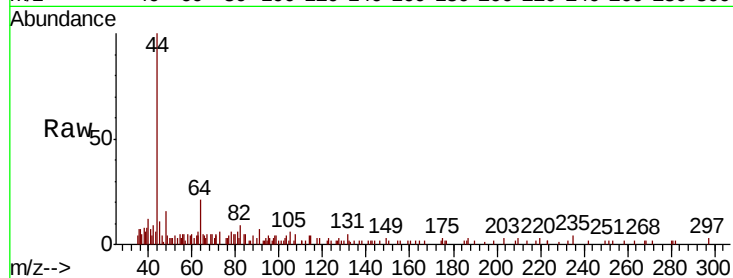
SA.PZ13811-20181208

Tot Ion: 56 Resp: 300

Ion Ratio Lower Upper

56 100

55 0.0 57.8 86.6#



#16

Acetone

Concen: 1.745 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX006618.D

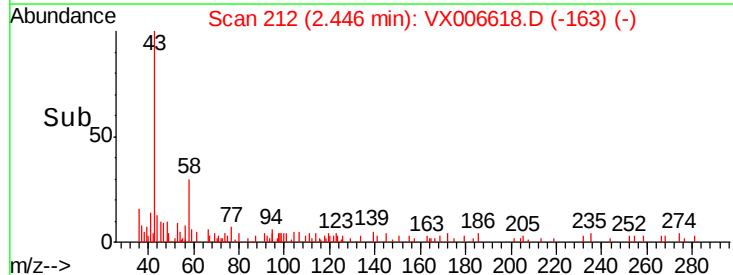
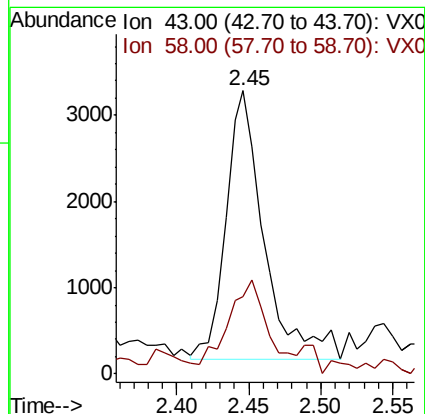
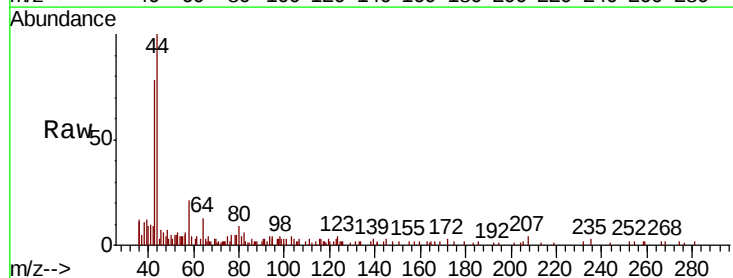
Acq: 19 Dec 2018 01:11

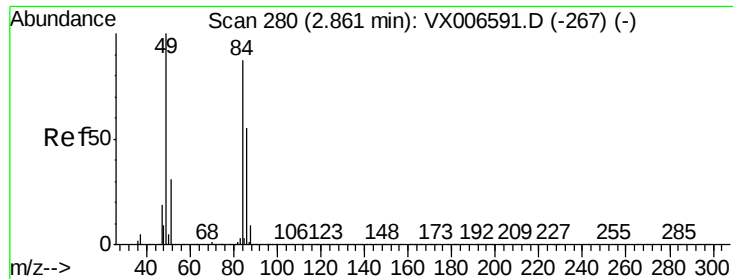
Tgt Ion: 43 Resp: 5731

Ion Ratio Lower Upper

43 100

58 24.9 24.0 36.0

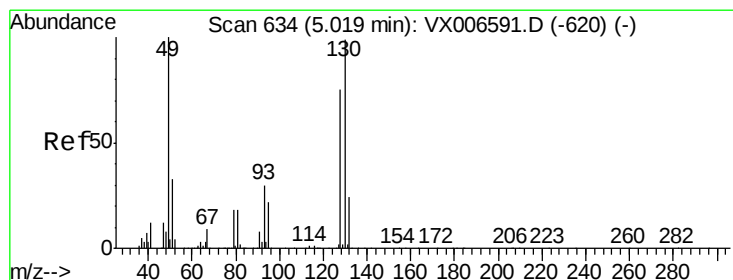
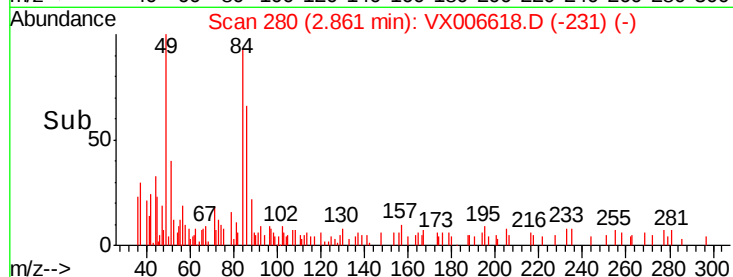
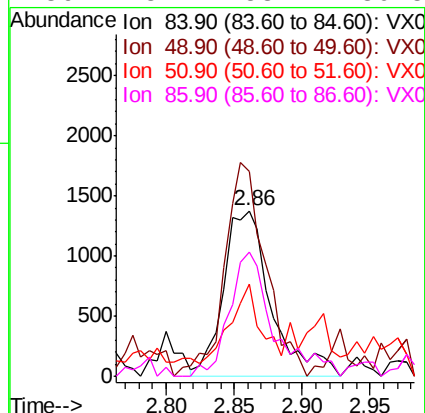
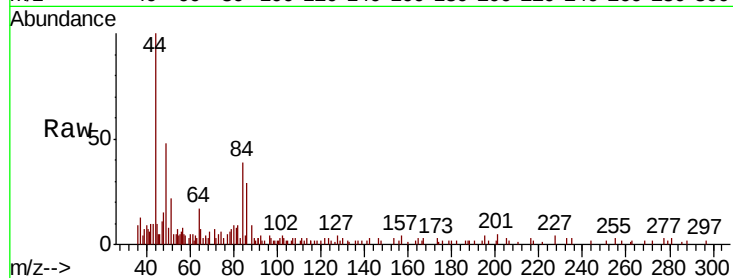




#20
Methvlene Chloride
Concen: 0.492 ug/l
RT: 2.86 min Scan# 280
Delta R.T. -0.00 min
Lab File: VX006618.D
Acq: 19 Dec 2018 01:11

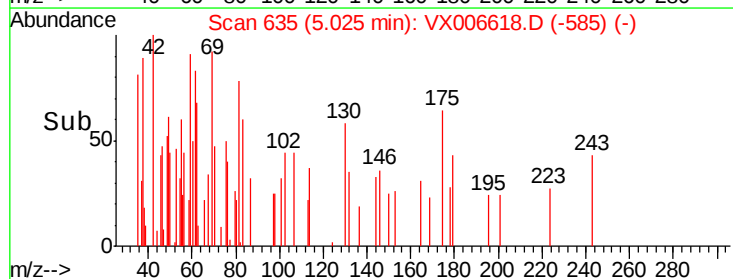
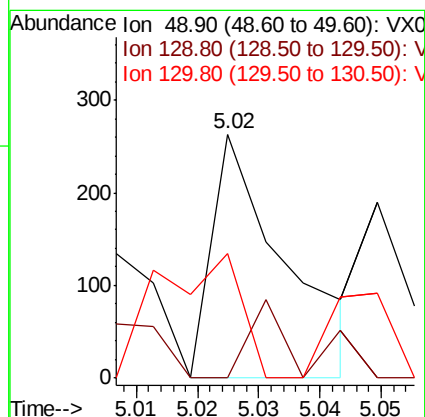
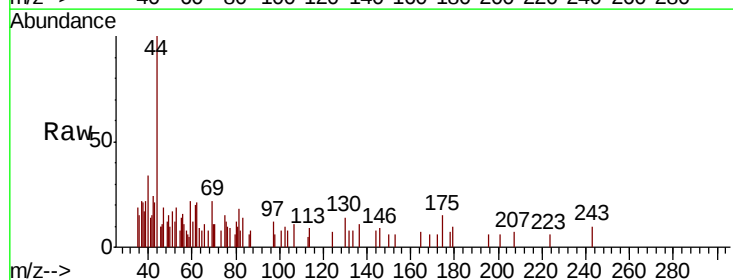
Instrument :
MSVOA_X
ClientSampleId :
SA.PZ138I1-20181208

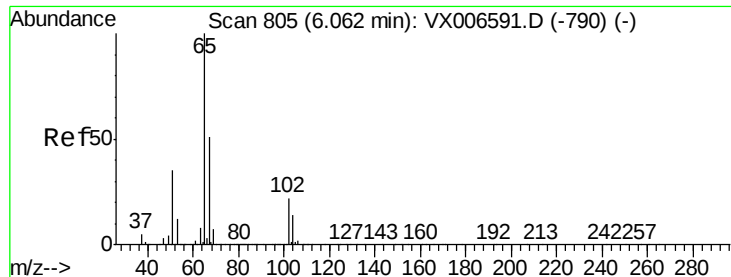
Tot Ion: 84 Resp: 3342
Ion Ratio Lower Upper
84 100
49 117.7 102.2 153.4
51 45.4 31.1 46.7
86 75.4 53.7 80.5



#28
Bromochloromethane
Concen: Below Cal
RT: 5.02 min Scan# 635
Delta R.T. 0.01 min
Lab File: VX006618.D
Acq: 19 Dec 2018 01:11

Tgt Ion: 49 Resp: 218
Ion Ratio Lower Upper
49 100
129 22.5 0.0 5.0#
130 56.9 78.3 117.5#





#33

1,2-Dichloroethane-d4

Concen: 50.948 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006618.D

Acq: 19 Dec 2018 01:11

Instrument :

MSVOA_X

ClientSampleId :

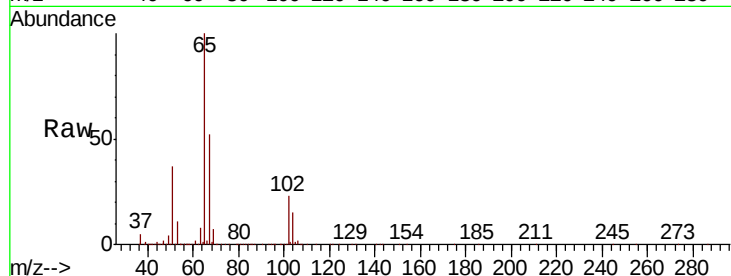
SA.PZ13811-20181208

Tot Ion: 65 Resp: 364287

Ion Ratio Lower Upper

65 100

67 53.3 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

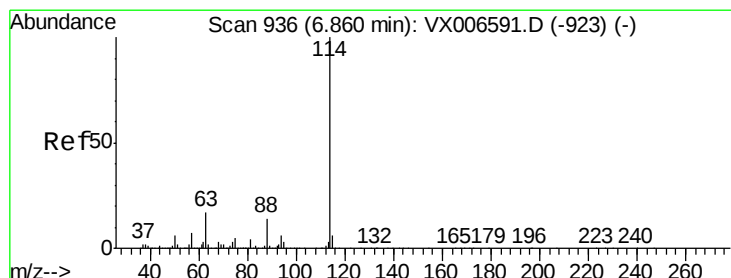
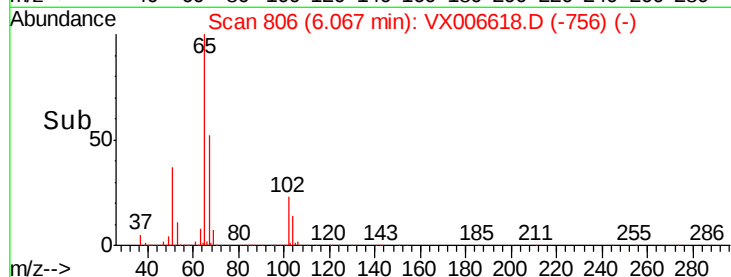
150000

100000

50000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006618.D

Acq: 19 Dec 2018 01:11

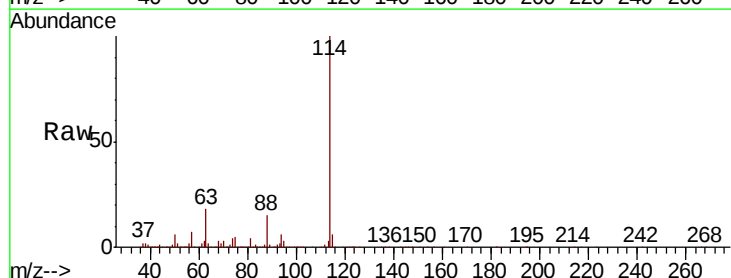
Tgt Ion: 114 Resp: 1049919

Ion Ratio Lower Upper

114 100

63 17.7 0.0 36.6

88 15.1 0.0 29.0



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

6.86

600000

500000

400000

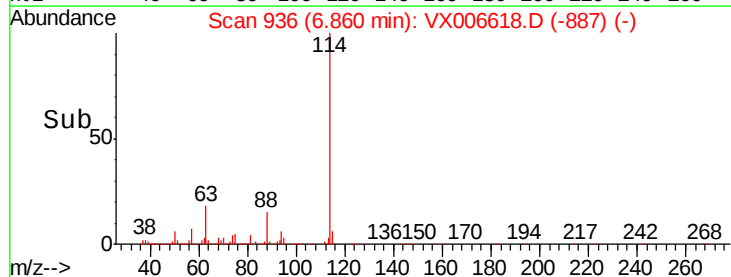
300000

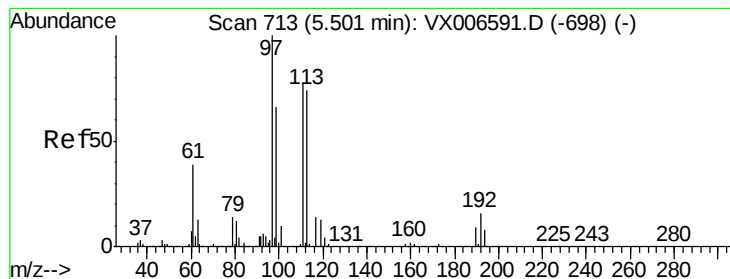
200000

100000

0

Time--> 6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 47.510 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX006618.D

Acq: 19 Dec 2018 01:11

Instrument :

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ClientSampleId :

SA.PZ13811-20181208

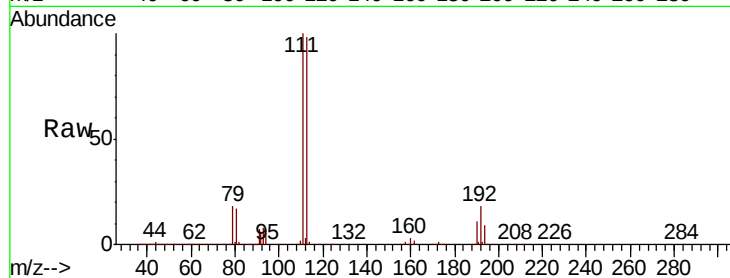
Tot Ion:113 Resp: 315439

Ion Ratio Lower Upper

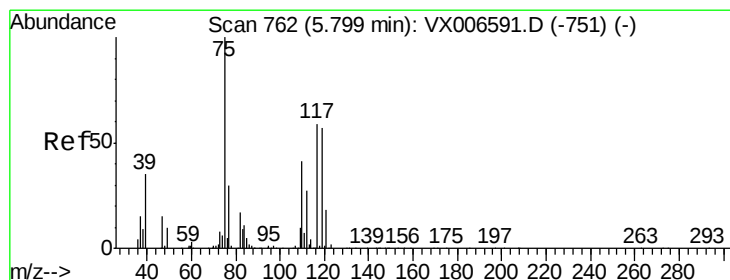
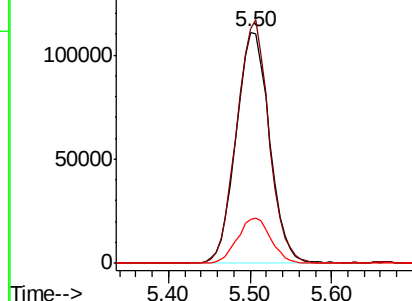
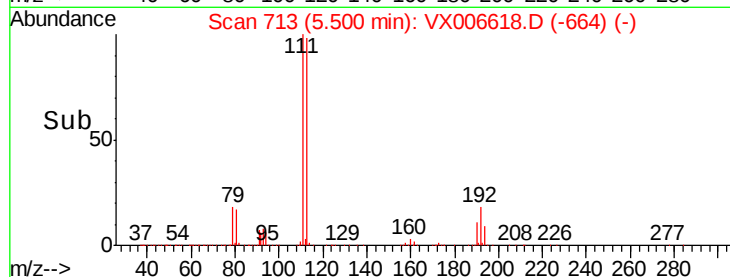
113 100

111 101.6 81.1 121.7

192 19.7 18.2 27.2



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: 4.874 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX006618.D

Acq: 19 Dec 2018 01:11

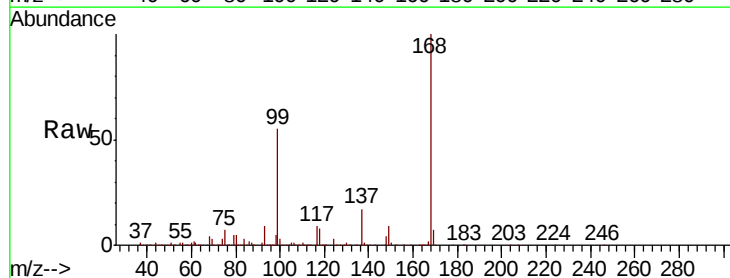
Tgt Ion: 75 Resp: 42380

Ion Ratio Lower Upper

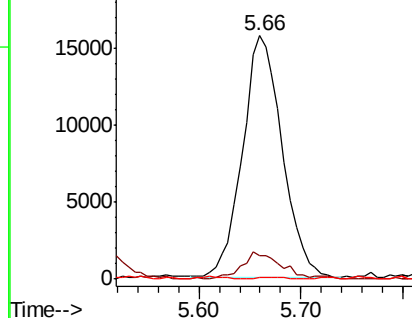
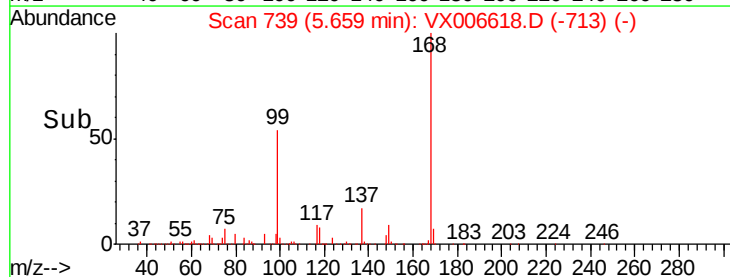
75 100

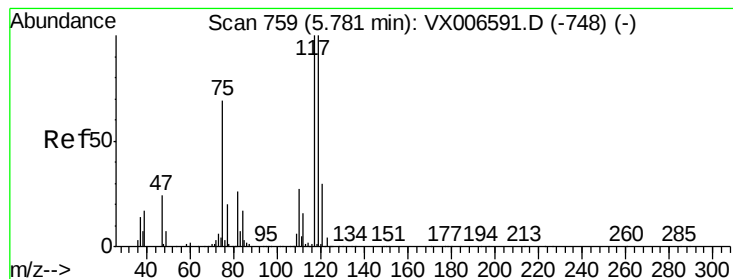
110 10.8 20.4 61.3#

77 0.5 24.9 37.3#



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: 7.339 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006618.D

Acq: 19 Dec 2018 01:11

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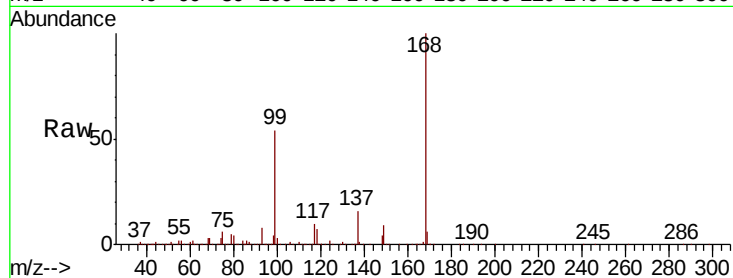
Tot Ion:117 Resp: 62024

Ion Ratio Lower Upper

117 100

119 3.9 75.8 113.8#

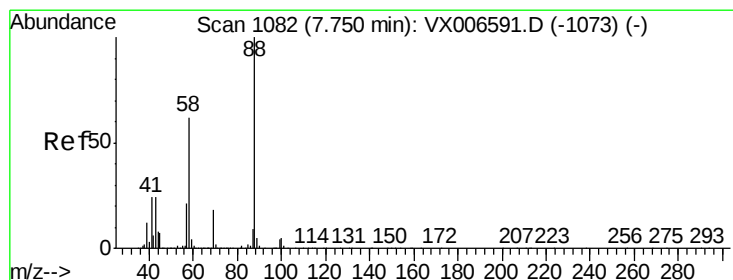
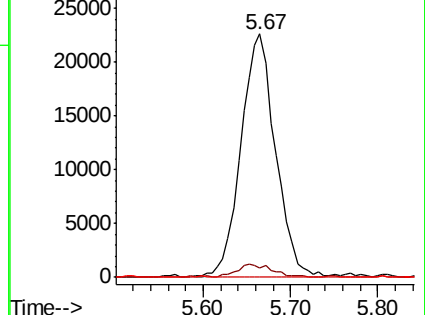
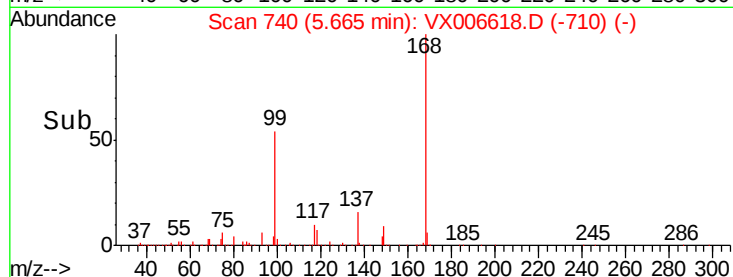
121 0.0 24.6 37.0#



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: 7.75 min Scan# 1082

Delta R.T. 0.00 min

Lab File: VX006618.D

Acq: 19 Dec 2018 01:11

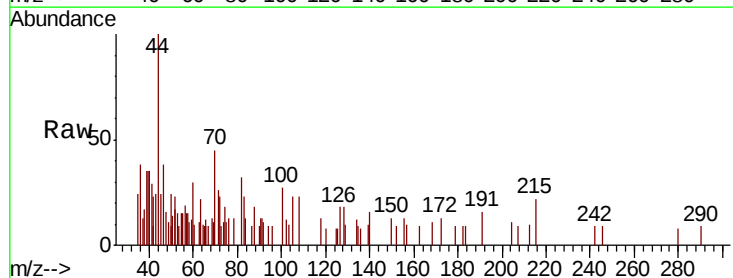
Tgt Ion: 88 Resp: 99

Ion Ratio Lower Upper

88 100

43 322.2 23.2 34.8#

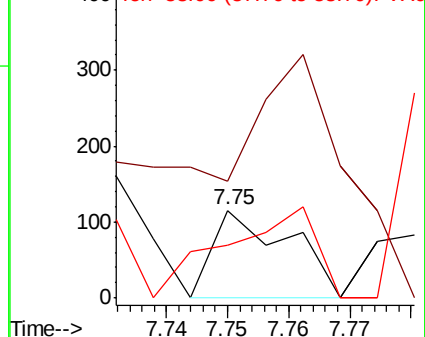
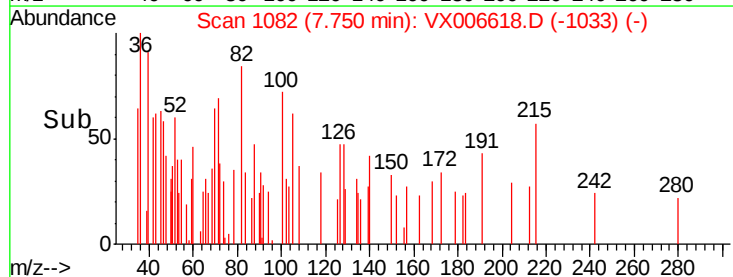
58 124.2 51.4 77.0#

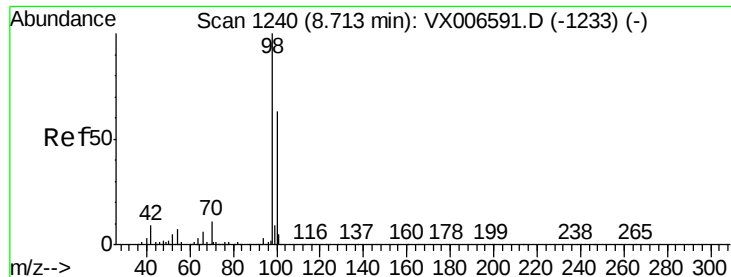


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.773 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006618.D

Acq: 19 Dec 2018 01:11

Instrument :

MSVOA_X

ClientSampleId :

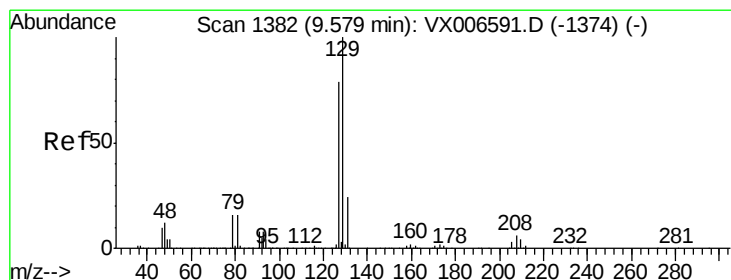
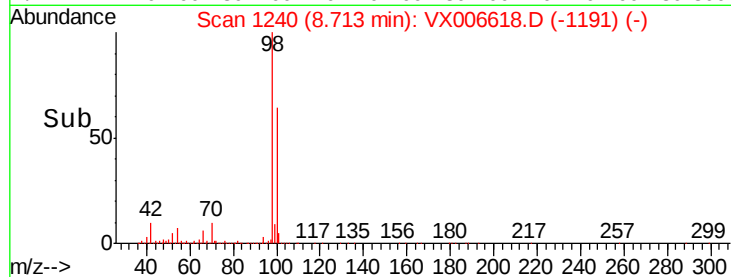
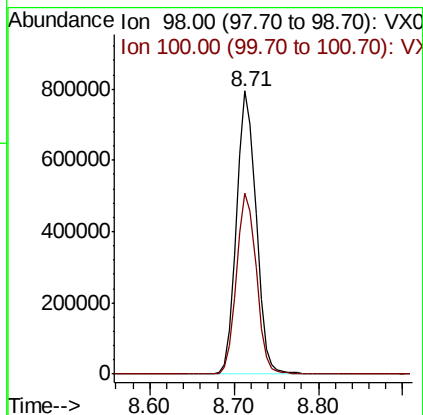
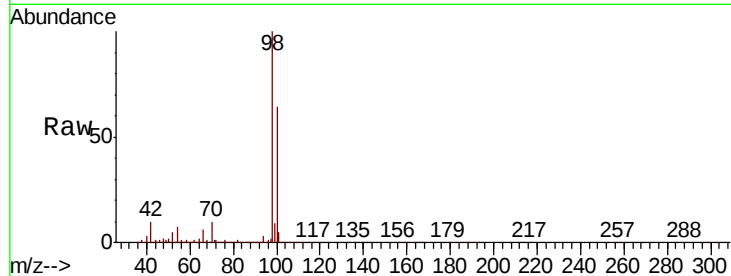
SA.PZ13811-20181208

Tot Ion: 98 Resp: 1245874

Ion Ratio Lower Upper

98 100

100 64.6 52.2 78.2



#60

Dibromochloromethane

Concen: 2.331 ug/l

RT: 9.49 min Scan# 1367

Delta R.T. -0.09 min

Lab File: VX006618.D

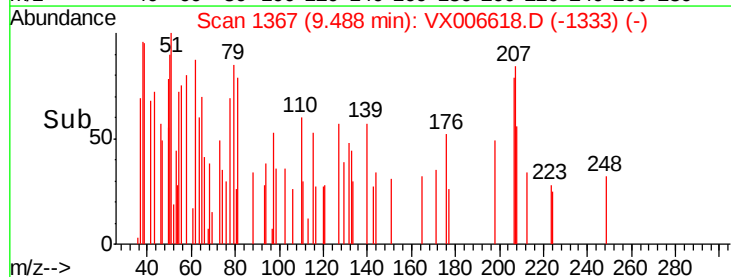
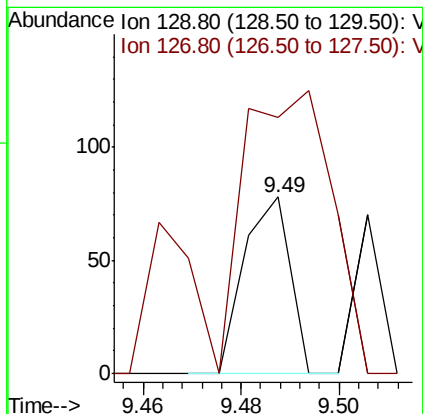
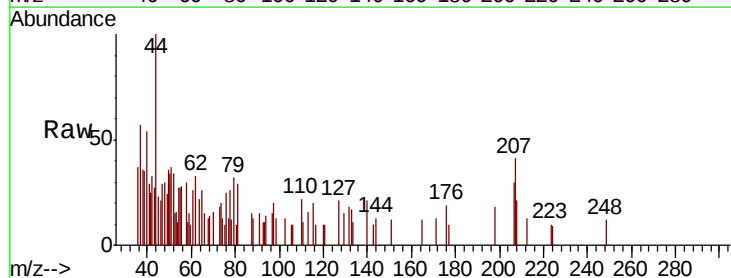
Acq: 19 Dec 2018 01:11

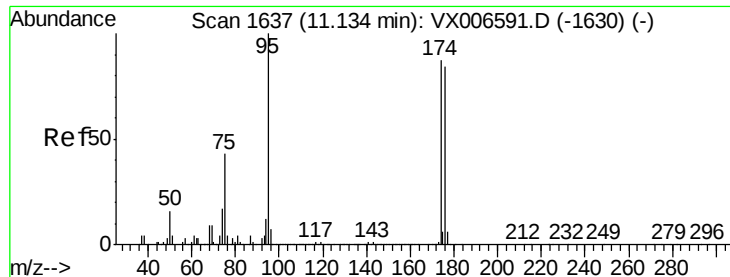
Tgt Ion:129 Resp: 51

Ion Ratio Lower Upper

129 100

127 390.2 38.6 115.8#





#62

4-Bromofluorobenzene

Concen: 49.638 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX006618.D

Acq: 19 Dec 2018 01:11

Instrument :

MSVOA_X

ClientSampleId :

SA.PZ138I1-20181208

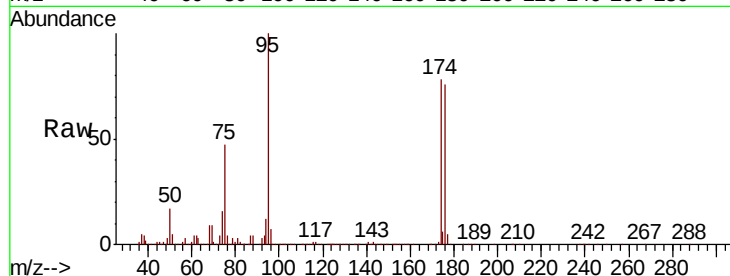
Tot Ion: 95 Resp: 455054

Ion Ratio Lower Upper

95 100

174 85.4 0.0 187.0

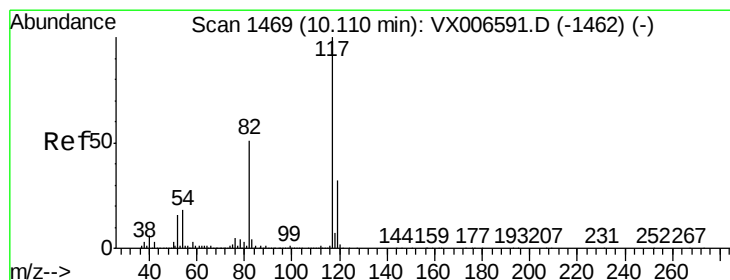
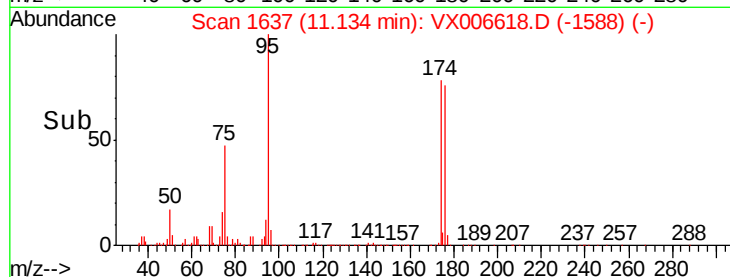
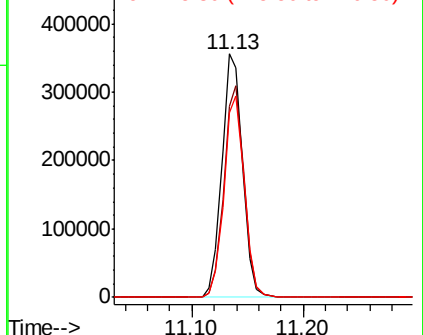
176 81.9 0.0 181.8



Abundance Ion 94.90 (94.60 to 95.60): VX006618.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX006618.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX006618.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX006618.D

Acq: 19 Dec 2018 01:11

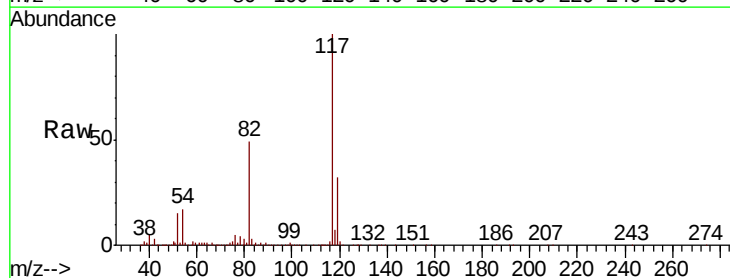
Tgt Ion: 117 Resp: 966664

Ion Ratio Lower Upper

117 100

82 48.8 39.6 59.4

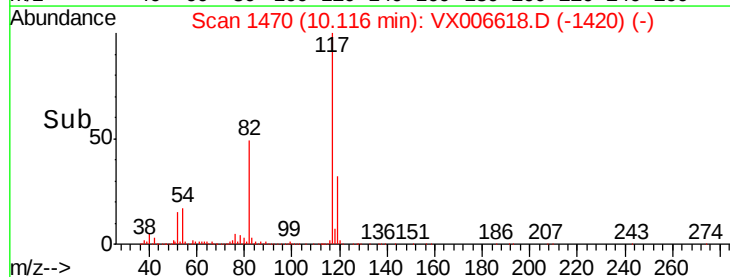
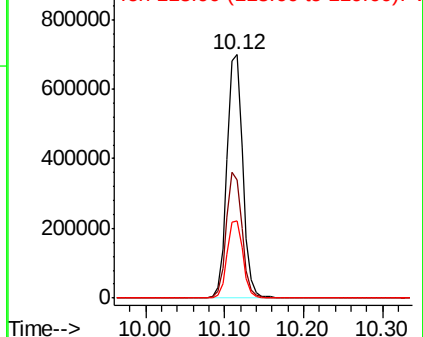
119 31.9 26.3 39.5

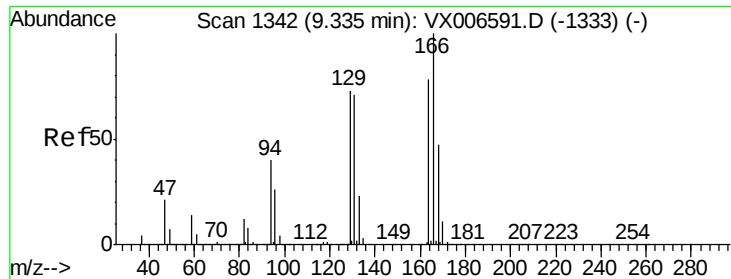


Abundance Ion 116.90 (116.60 to 117.60): VX006618.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX006618.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX006618.D (-1420) (-)

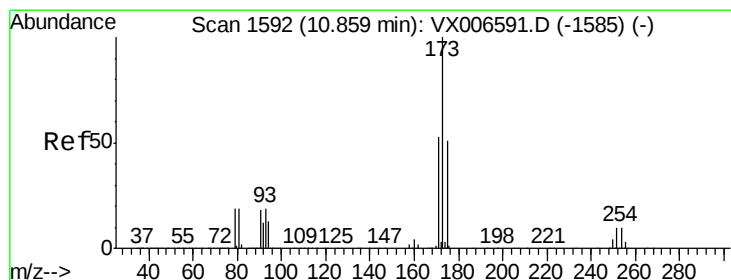
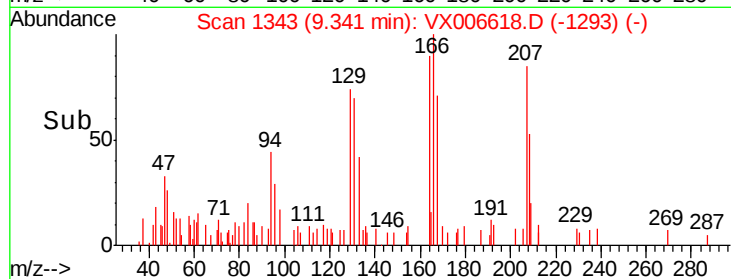
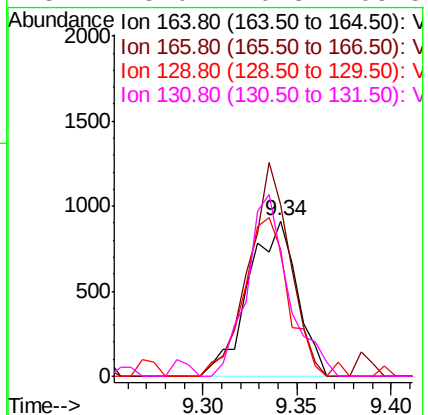
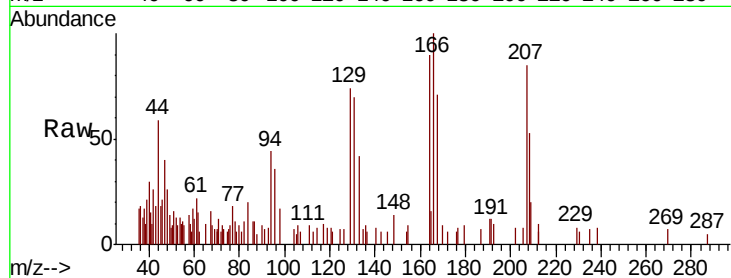




#64
Tetrachloroethene
Concen: 0.214 ug/l
RT: 9.34 min Scan# 1343
Delta R.T. 0.01 min
Lab File: VX006618.D
Acq: 19 Dec 2018 01:11

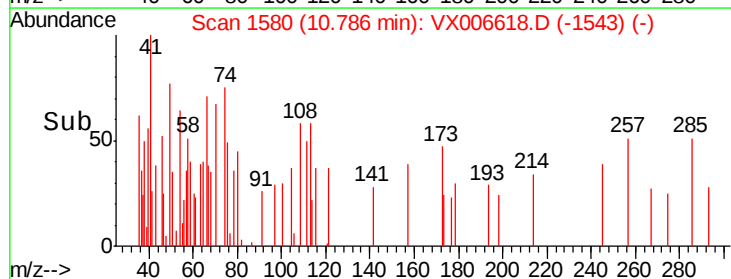
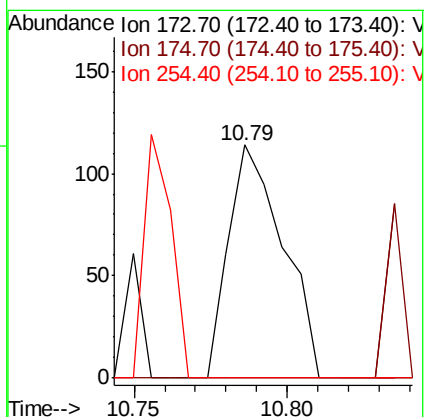
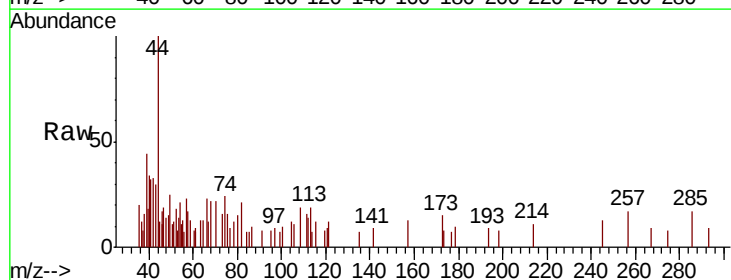
Instrument :
MSVOA_X
ClientSampleId :
SA.PZ13811-20181208

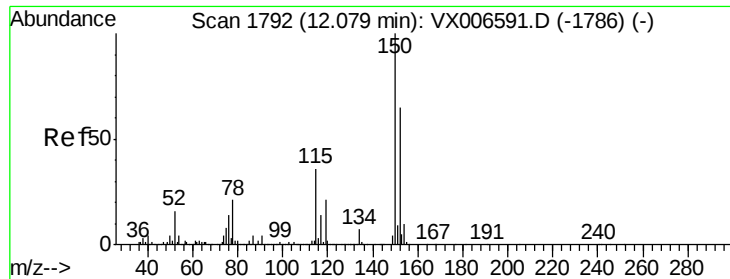
Tot Ion:164 Resp: 1640
Ion Ratio Lower Upper
164 100
166 110.7 104.2 156.2
129 81.7 72.6 108.8
131 78.0 70.3 105.5



#71
Bromoform
Concen: 4.482 ug/l
RT: 10.79 min Scan# 1580
Delta R.T. -0.07 min
Lab File: VX006618.D
Acq: 19 Dec 2018 01:11

Tgt Ion:173 Resp: 140
Ion Ratio Lower Upper
173 100
175 0.0 24.6 73.8#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX006618.D

Acq: 19 Dec 2018 01:11

Instrument :

MSVOA_X

ClientSampleId :

SA.PZ13811-20181208

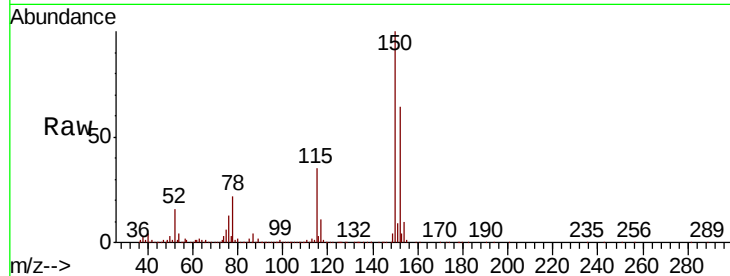
Tot Ion:152 Resp: 459183

Ion Ratio Lower Upper

152 100

115 57.3 39.0 116.9

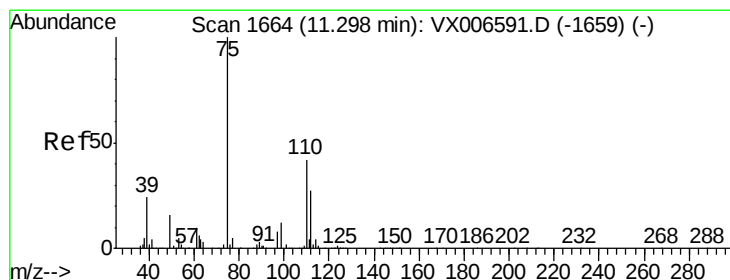
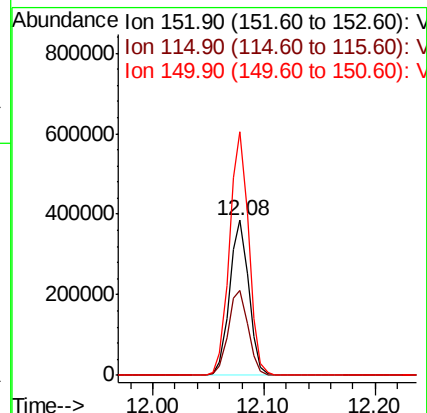
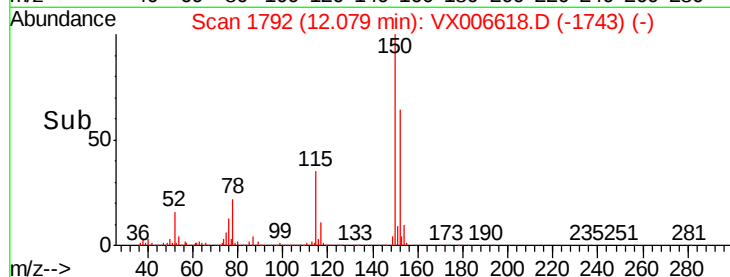
150 157.1 0.0 345.8



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: 26.069 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006618.D

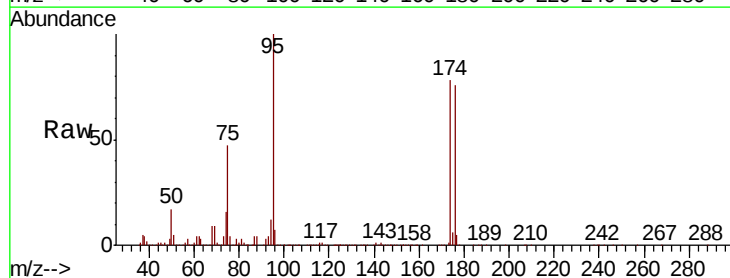
Acq: 19 Dec 2018 01:11

Tgt Ion: 75 Resp: 209800

Ion Ratio Lower Upper

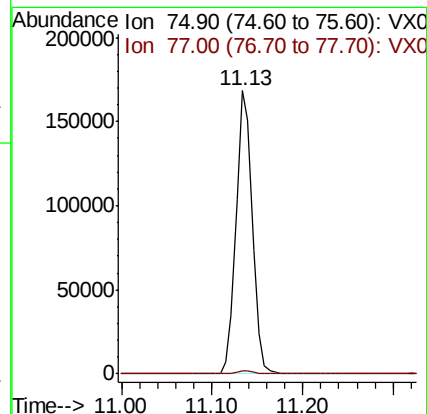
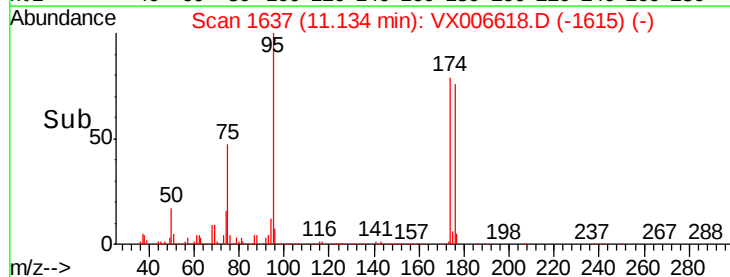
75 100

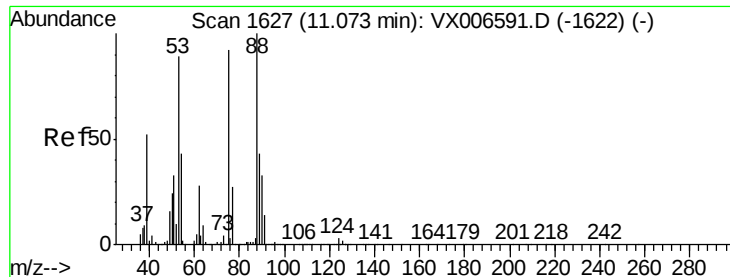
77 1.2 19.9 59.7#



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: 72.719 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006618.D

Acq: 19 Dec 2018 01:11

Instrument :

MSVOA_X

ClientSampleId :

SA.PZ138I1-20181208

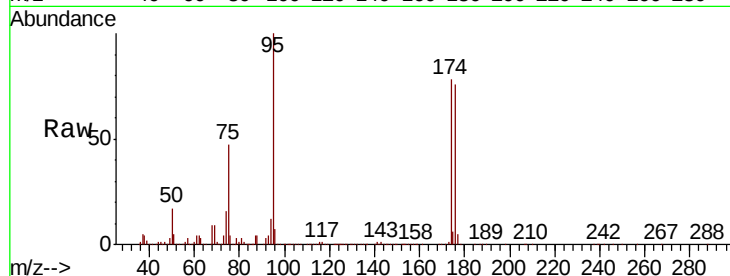
Tot Ion: 75 Resp: 209800

Ion Ratio Lower Upper

75 100

53 0.0 64.4 96.6#

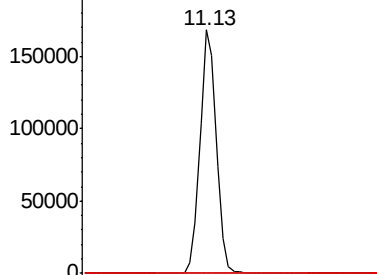
89 0.1 44.2 66.4#



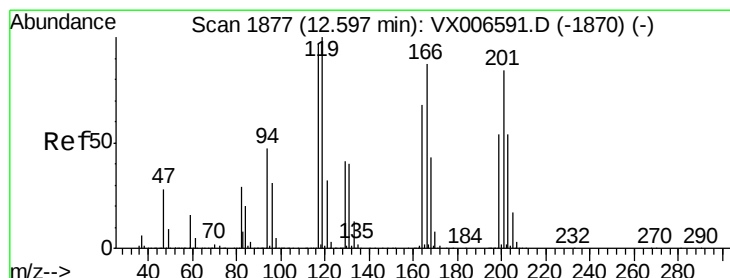
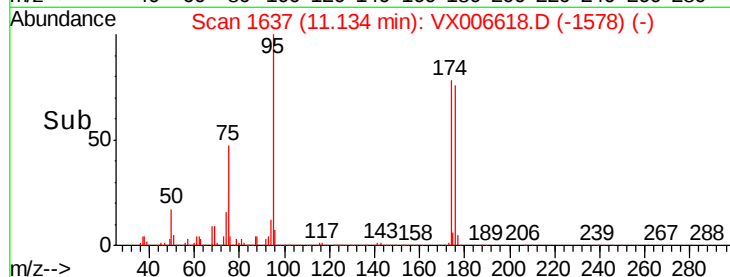
Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



Time--> 11.00 11.10 11.20



#90

Hexachloroethane

Concen: 3.308 ug/l

RT: 12.57 min Scan# 1873

Delta R.T. -0.02 min

Lab File: VX006618.D

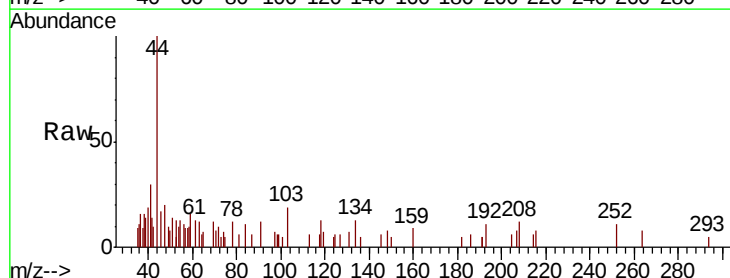
Acq: 19 Dec 2018 01:11

Tgt Ion: 117 Resp: 71

Ion Ratio Lower Upper

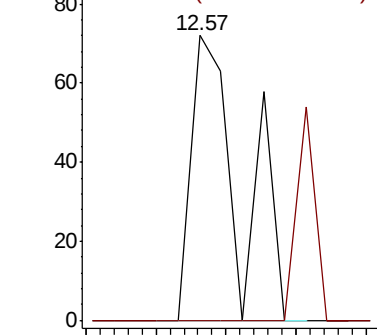
117 100

201 0.0 44.7 134.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



Time--> 12.54 12.56 12.58 12.60

