

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121818\
 Data File : VX006620.D
 Acq On : 19 Dec 2018 02:05
 Operator : JC/MD
 Sample : J6408-13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA.PZ182I-20181208

Quant Time: Dec 19 06:06:31 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	622022	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	987220	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	922383	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	441232	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	349347	52.11	ug/l	0.00
Spiked Amount			Recovery	=	104.22%	
35) Dibromofluoromethane	5.51	113	296679	47.52	ug/l	0.00
Spiked Amount			Recovery	=	95.04%	
50) Toluene-d8	8.71	98	1185605	50.37	ug/l	0.00
Spiked Amount			Recovery	=	100.74%	
62) 4-Bromofluorobenzene	11.13	95	426633	49.49	ug/l	0.00
Spiked Amount			Recovery	=	98.98%	

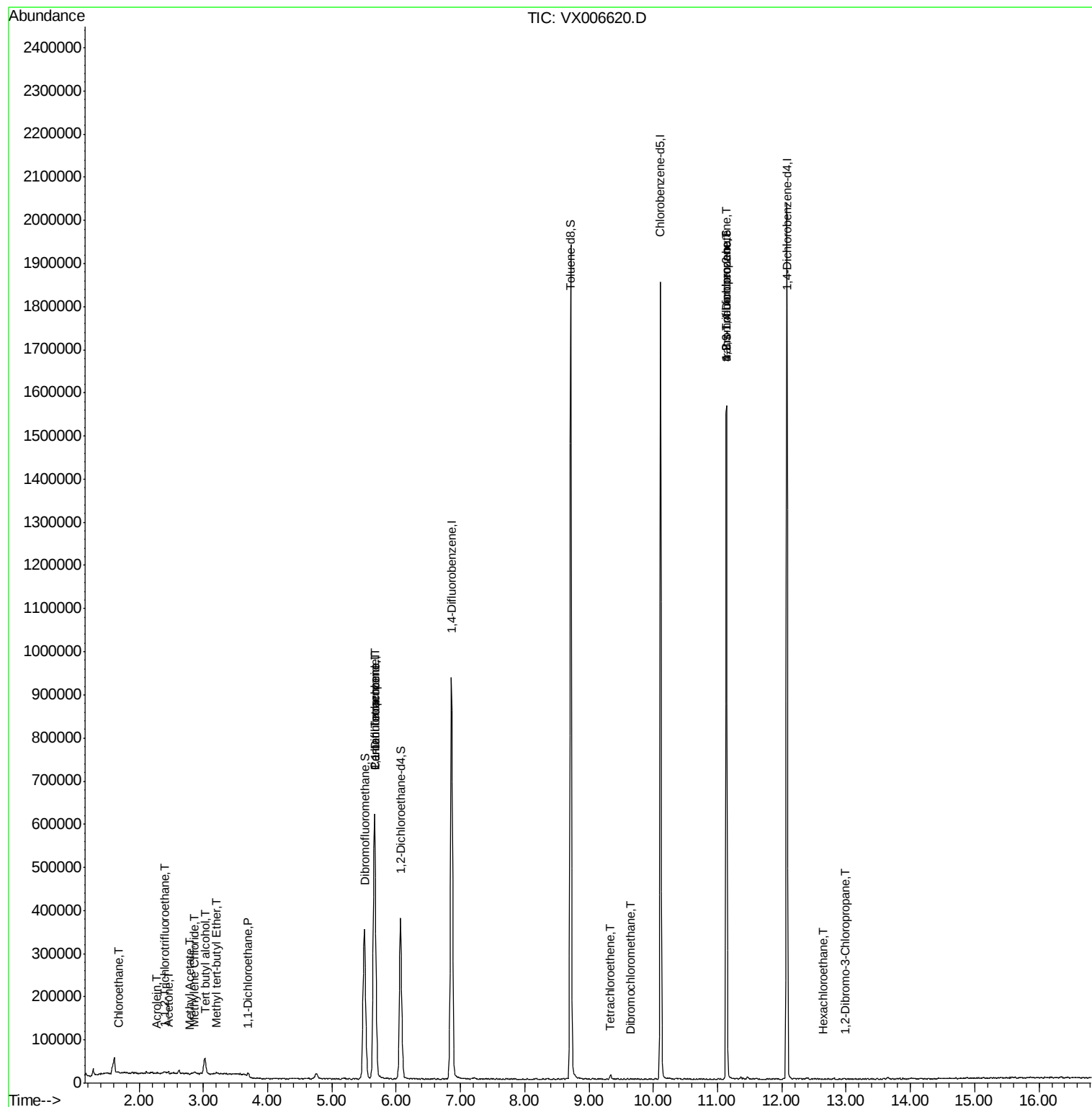
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	563	Below Cal		98
6) Chloroethane	1.68	64	1026	0.231	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.40	101	1214	0.207	ug/l #	64
11) Tert butyl alcohol	3.02	59	22942	15.334	ug/l #	77
13) Acrolein	2.26	56	387	0.383	ug/l #	66
16) Acetone	2.45	43	4800	1.558	ug/l	95
18) Methyl Acetate	2.79	43	1987	0.219	ug/l	97
19) Methyl tert-butyl Ether	3.20	73	3781	0.205	ug/l #	84
20) Methylene Chloride	2.86	84	2345	0.368	ug/l #	80
24) 1,1-Dichloroethane	3.69	63	12576	1.231	ug/l	99
28) Bromochloromethane	5.02	49	290	Below Cal	#	1
36) 1,1-Dichloropropene	5.66	75	41908	5.125	ug/l #	48
38) Carbon Tetrachloride	5.67	117	59481	7.485	ug/l #	16
49) 1,4-Dioxane	7.76	88	226	Below Cal	#	22
60) Dibromochloromethane	9.64	129	48	2.331	ug/l	59
64) Tetrachloroethene	9.33	164	1776	0.243	ug/l #	86
76) 1,2,3-Trichloropropane	11.13	75	200681	25.950	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.13	75	200681	72.408	ug/l #	15
90) Hexachloroethane	12.65	117	29	3.300	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.00	75	462	0.249	ug/l #	1

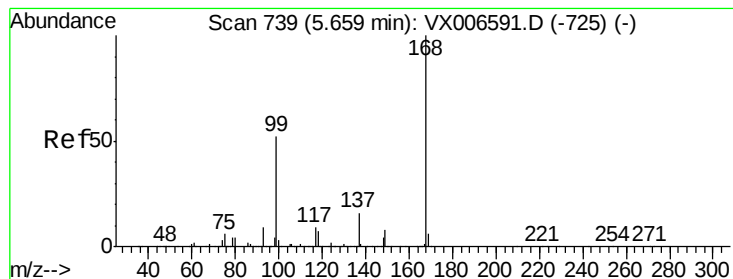
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX121818\
Data File : VX006620.D
Acq On : 19 Dec 2018 02:05
Operator : JC/MD
Sample : J6408-13
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
SA.PZ182I-20181208

Quant Time: Dec 19 06:06:31 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 18 13:23:17 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: VX006620.D

Acq: 19 Dec 2018 02:05

Instrument :

MSVOA_X

ClientSampleId :

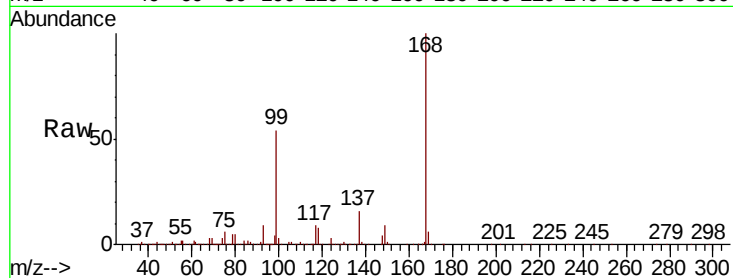
SA.PZ182I-20181208

Tot Ion:168 Resp: 622022

Ion Ratio Lower Upper

168 100

99 53.6 37.8 56.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

150000

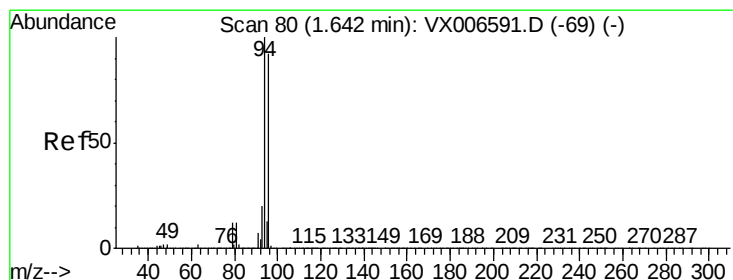
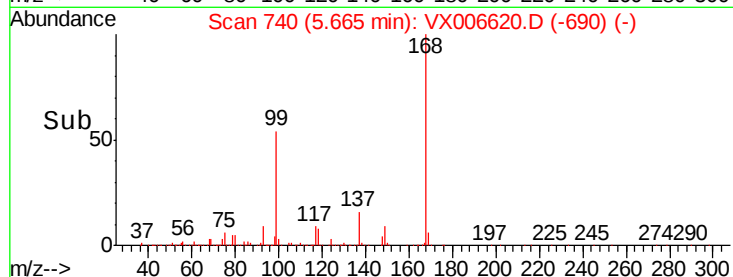
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX006620.D

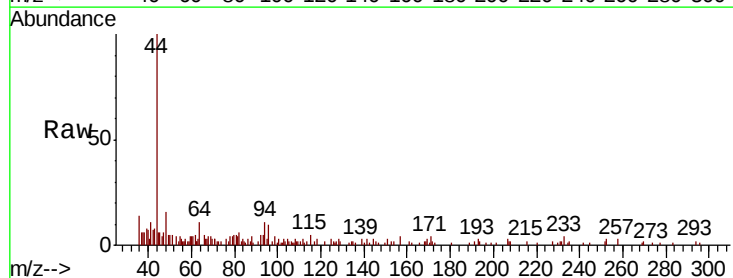
Acq: 19 Dec 2018 02:05

Tgt Ion: 94 Resp: 563

Ion Ratio Lower Upper

94 100

96 95.1 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

600

500

400

300

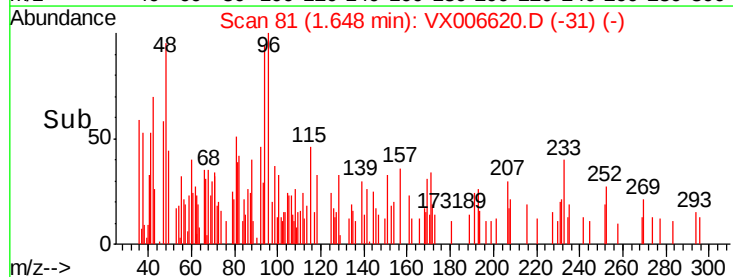
200

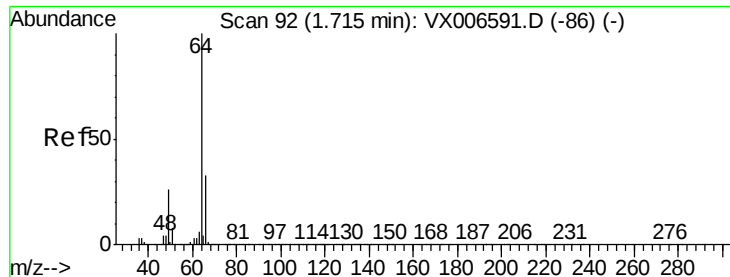
100

0

Time-->

1.64 1.66





#6

Chloroethane

Concen: 0.231 ug/l

RT: 1.68 min Scan# 86

Delta R.T. -0.04 min

Lab File: VX006620.D

Acq: 19 Dec 2018 02:05

Instrument :

MSVOA_X

ClientSampleId :

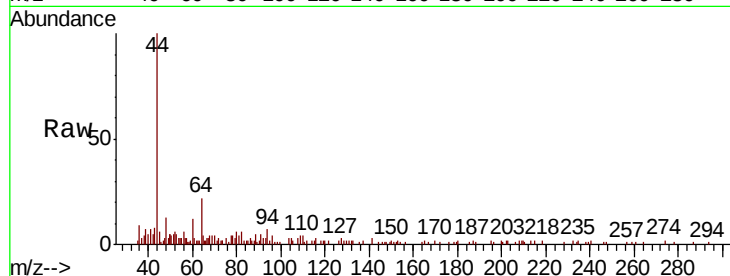
SA.PZ182I-20181208

Tot Ion: 64 Resp: 1026

Ion Ratio Lower Upper

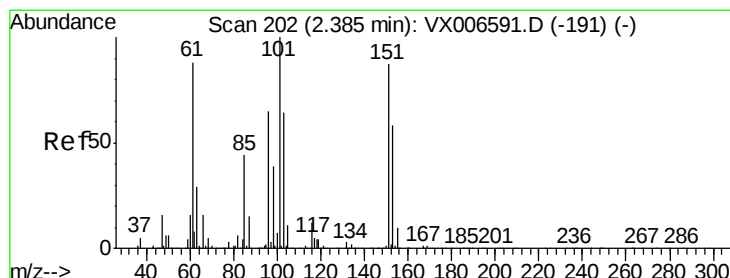
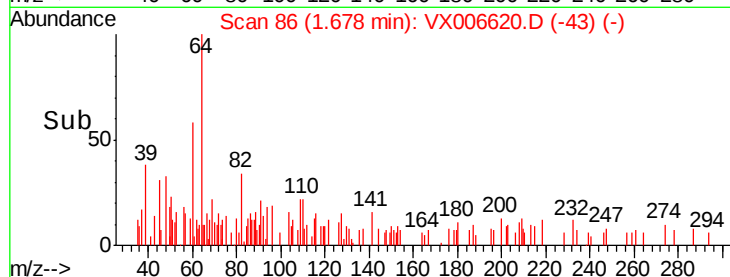
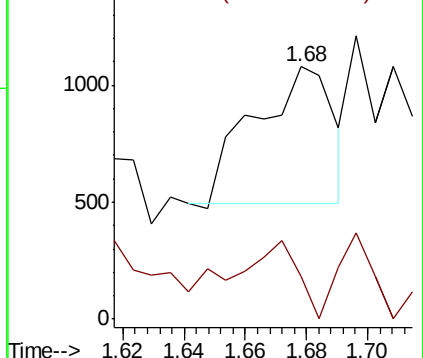
64 100

66 33.5 25.9 38.9



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.207 ug/l

RT: 2.40 min Scan# 204

Delta R.T. 0.01 min

Lab File: VX006620.D

Acq: 19 Dec 2018 02:05

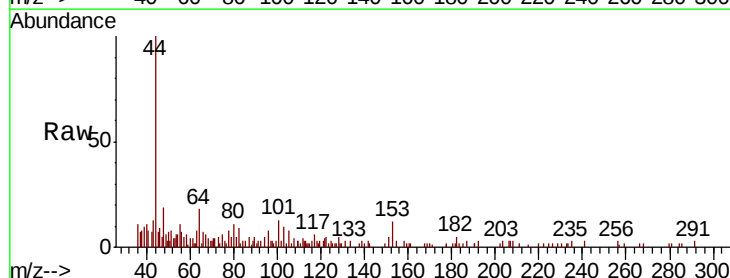
Tgt Ion:101 Resp: 1214

Ion Ratio Lower Upper

101 100

85 36.4 35.5 53.3

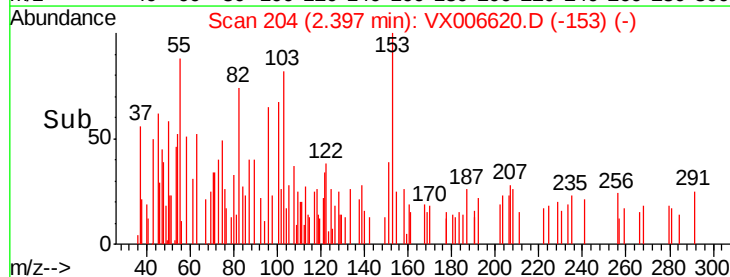
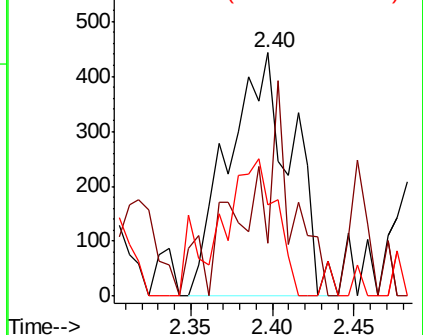
151 40.9 68.6 103.0#

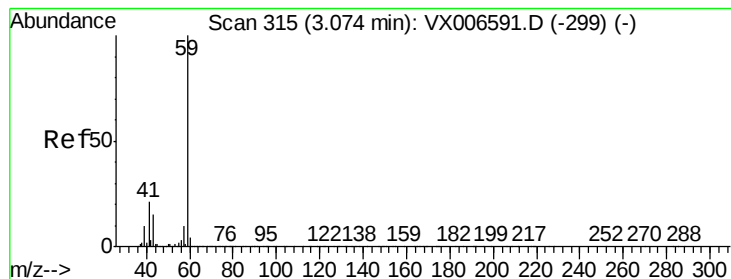


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



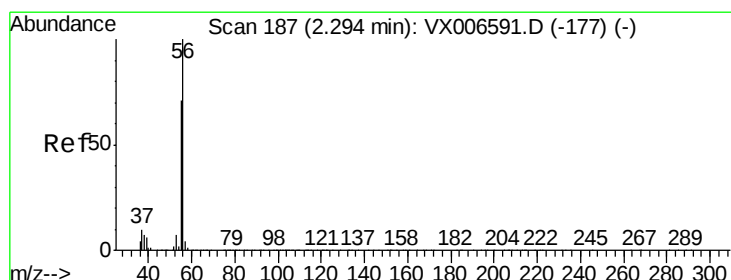
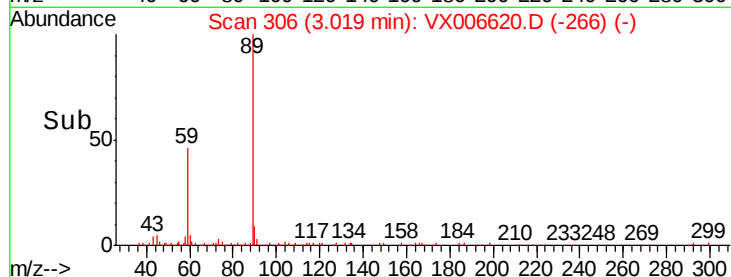
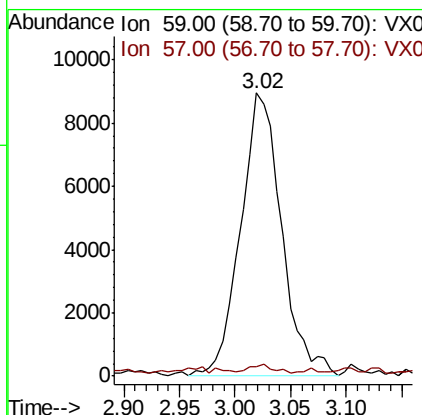
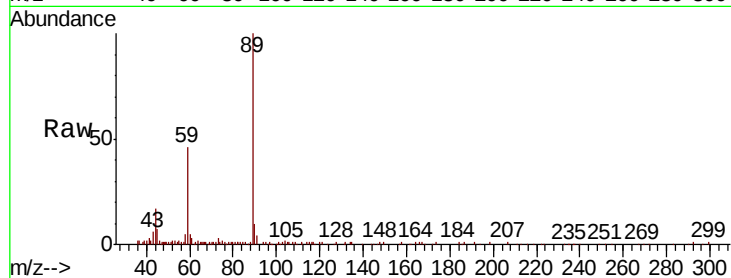


#11

Tert butyl alcohol
Concen: 15.334 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.05 min
Lab File: VX006620.D
Acq: 19 Dec 2018 02:05

Instrument :
MSVOA_X
ClientSampleId :
SA.PZ182I-20181208

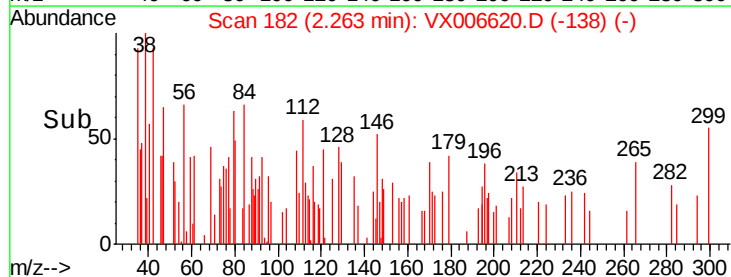
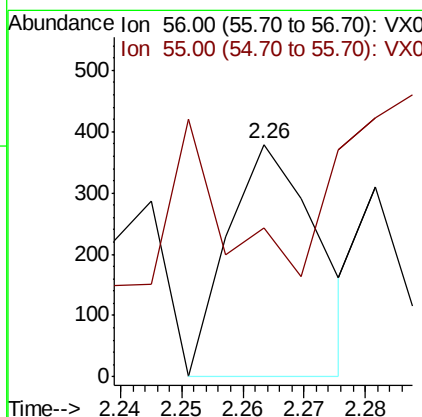
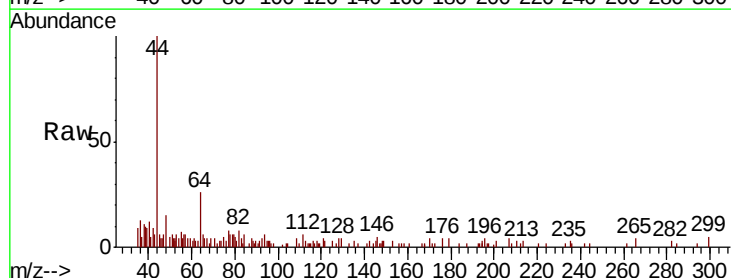
Tot Ion: 59 Resp: 22942
Ion Ratio Lower Upper
59 100
57 1.6 8.2 12.2#

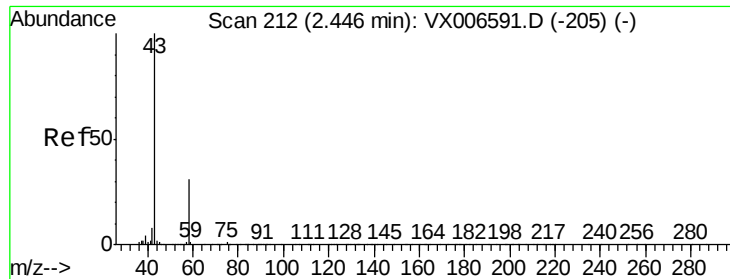


#13

Acrolein
Concen: 0.383 ug/l
RT: 2.26 min Scan# 182
Delta R.T. -0.03 min
Lab File: VX006620.D
Acq: 19 Dec 2018 02:05

Tgt Ion: 56 Resp: 387
Ion Ratio Lower Upper
56 100
55 43.7 57.8 86.6#





#16

Acetone

Concen: 1.558 ug/l

RT: 2.45 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX006620.D

Acq: 19 Dec 2018 02:05

Instrument :

MSVOA_X

ClientSampleId :

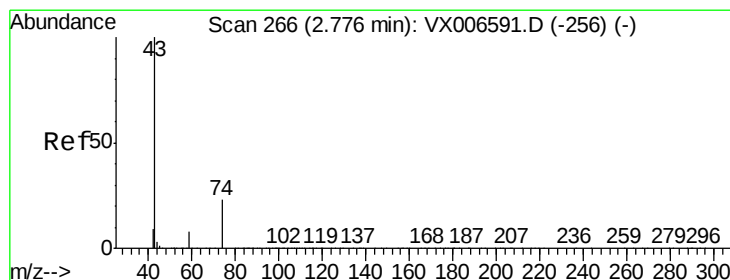
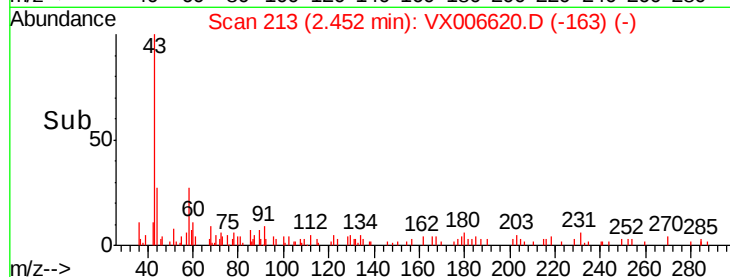
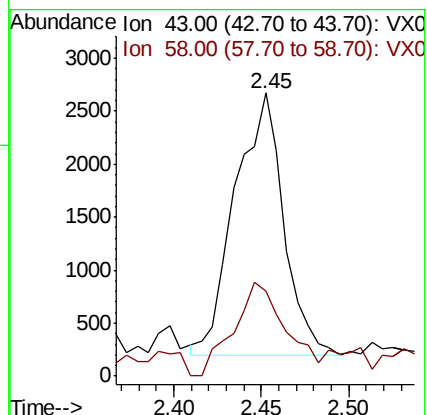
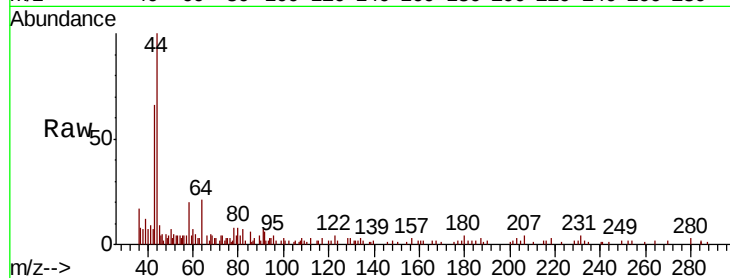
SA.PZ182I-20181208

Tot Ion: 43 Resp: 4800

Ion Ratio Lower Upper

43 100

58 32.6 24.0 36.0



#18

Methyl Acetate

Concen: 0.219 ug/l

RT: 2.79 min Scan# 268

Delta R.T. 0.01 min

Lab File: VX006620.D

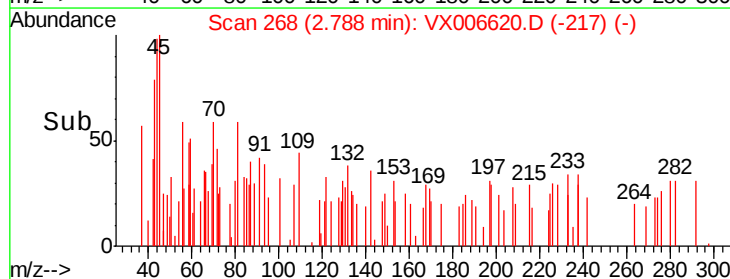
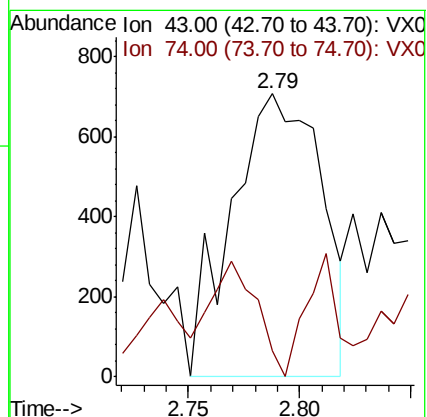
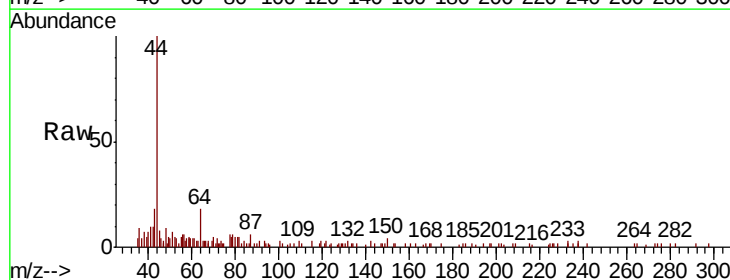
Acq: 19 Dec 2018 02:05

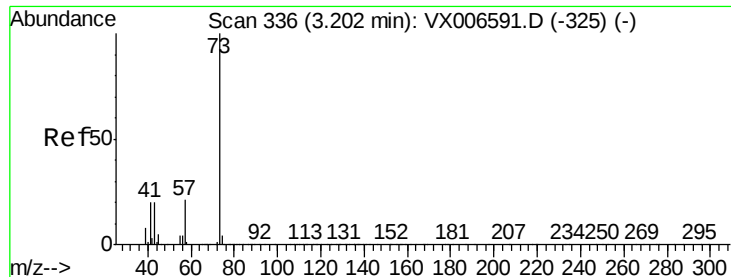
Tgt Ion: 43 Resp: 1987

Ion Ratio Lower Upper

43 100

74 21.0 17.9 26.9



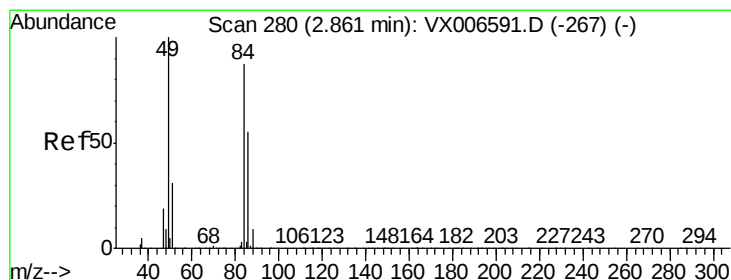
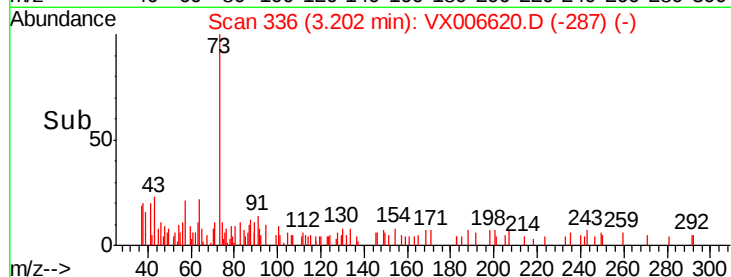
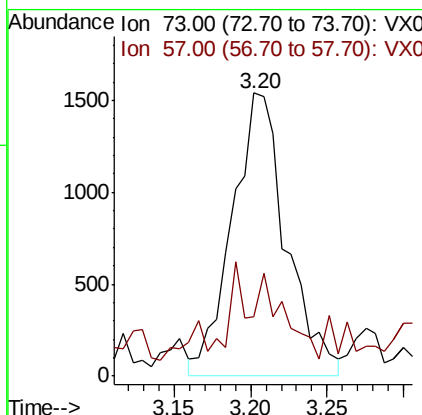
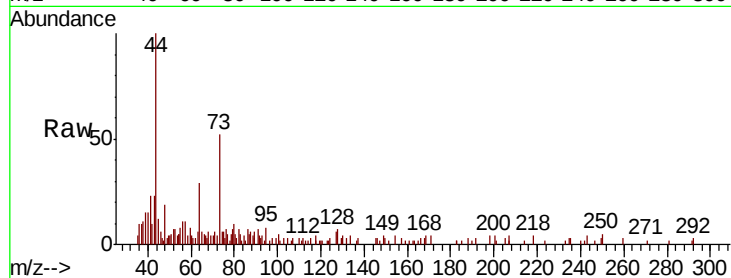


#19

Methyl tert-butyl Ether
 Concen: 0.205 ug/l
 RT: 3.20 min Scan# 336
 Delta R.T. -0.00 min
 Lab File: VX006620.D
 Acq: 19 Dec 2018 02:05

Instrument :
 MSVOA_X
 ClientSampleId :
 SA.PZ182I-20181208

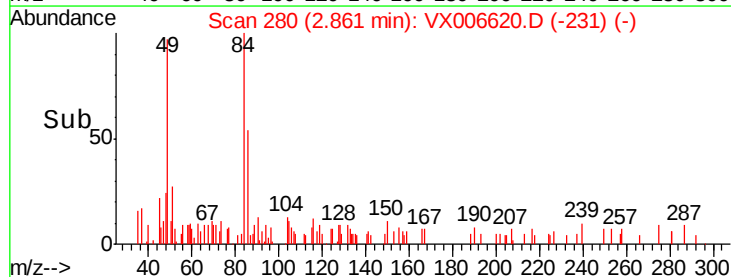
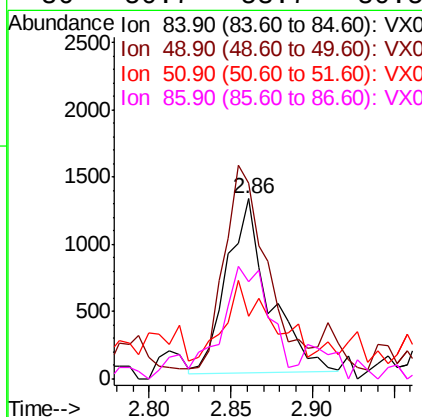
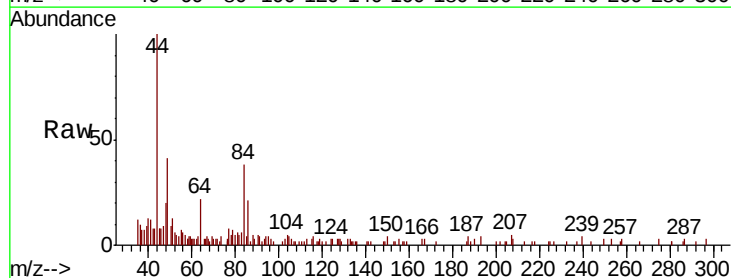
Tot Ion: 73 Resp: 3781
 Ion Ratio Lower Upper
 73 100
 57 14.1 17.5 26.3#

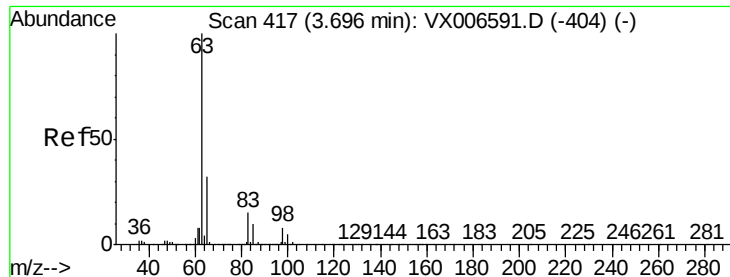


#20

Methylene Chloride
 Concen: 0.368 ug/l
 RT: 2.86 min Scan# 280
 Delta R.T. -0.00 min
 Lab File: VX006620.D
 Acq: 19 Dec 2018 02:05

Tgt Ion: 84 Resp: 2345
 Ion Ratio Lower Upper
 84 100
 49 108.5 102.2 153.4
 51 22.4 31.1 46.7#
 86 50.7 53.7 80.5#





#24

1,1-Dichloroethane

Concen: 1.231 ug/l

RT: 3.69 min Scan# 416

Delta R.T. -0.01 min

Lab File: VX006620.D

Acq: 19 Dec 2018 02:05

Instrument :

MSVOA_X

ClientSampleId :

SA.PZ182I-20181208

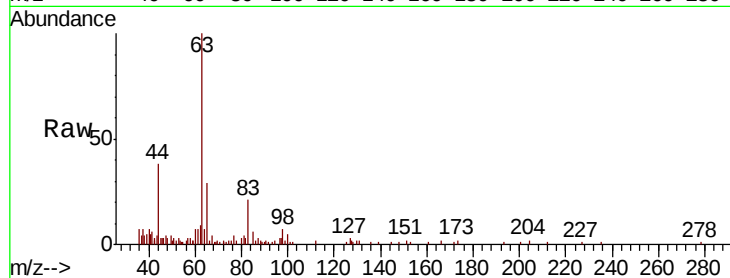
Tot Ion: 63 Resp: 12576

Ion Ratio Lower Upper

63 100

98 7.3 3.8 11.4

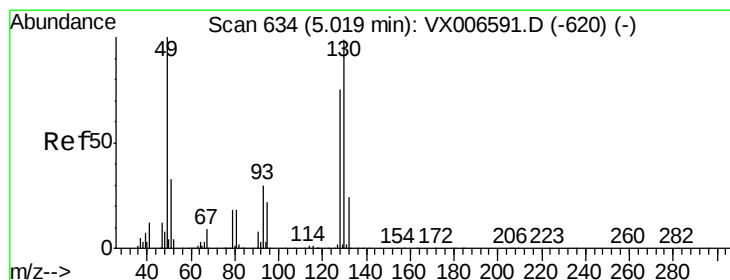
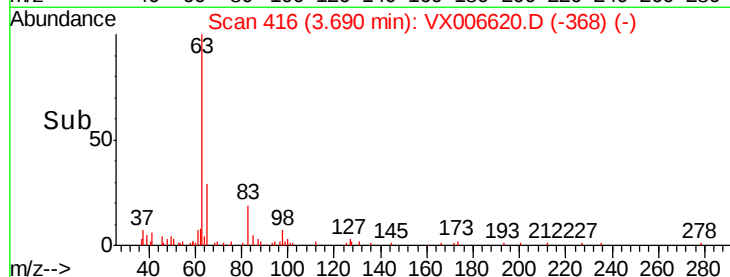
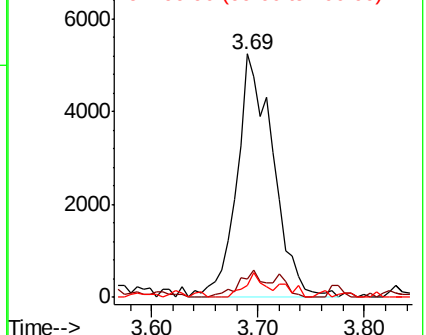
100 4.7 2.5 7.4



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 634

Delta R.T. -0.00 min

Lab File: VX006620.D

Acq: 19 Dec 2018 02:05

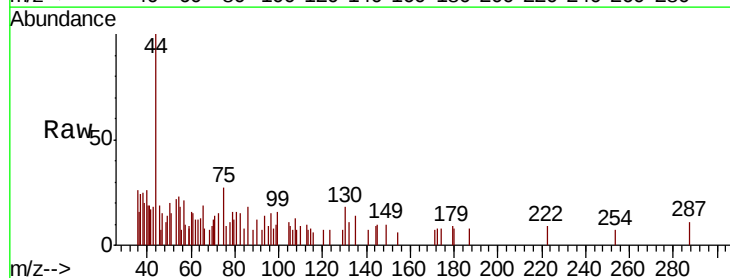
Tgt Ion: 49 Resp: 290

Ion Ratio Lower Upper

49 100

129 29.7 0.0 5.0#

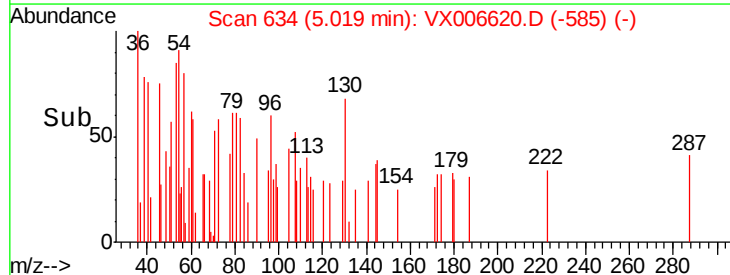
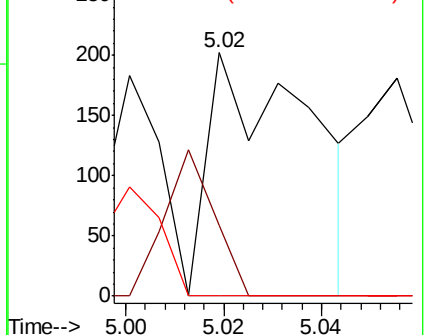
130 0.0 78.3 117.5#

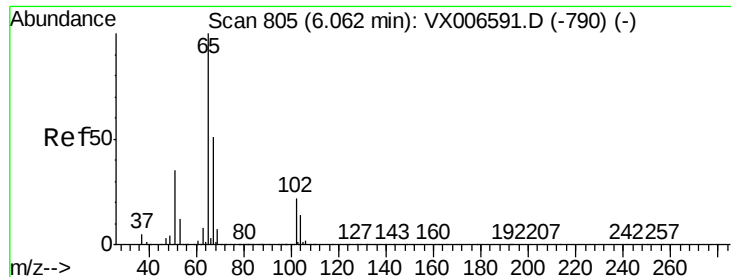


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#33

1,2-Dichloroethane-d4

Concen: 52.111 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006620.D

Acq: 19 Dec 2018 02:05

Instrument :

MSVOA_X

ClientSampleId :

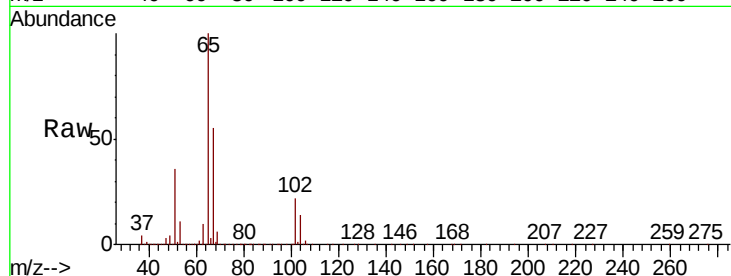
SA.PZ182I-20181208

Tot Ion: 65 Resp: 349347

Ion Ratio Lower Upper

65 100

67 52.5 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

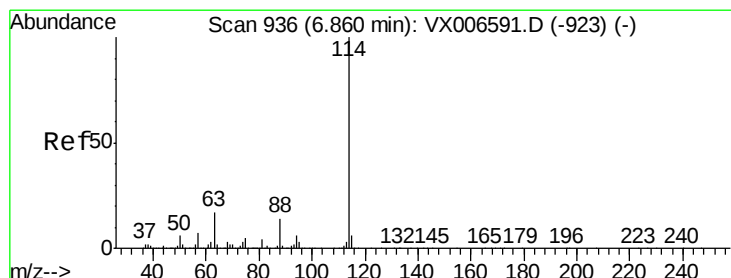
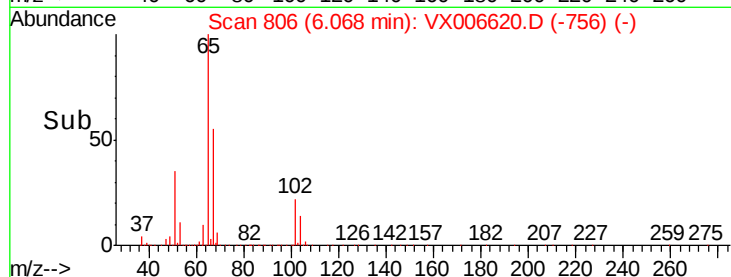
150000

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: VX006620.D

Acq: 19 Dec 2018 02:05

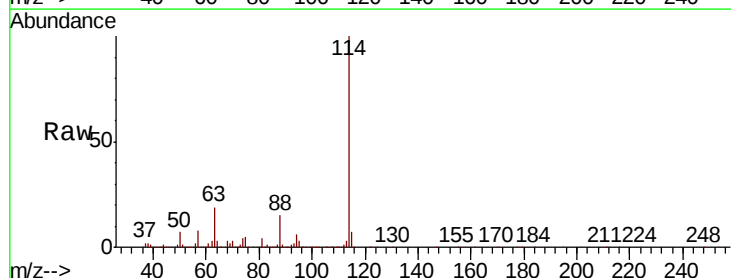
Tgt Ion: 114 Resp: 987220

Ion Ratio Lower Upper

114 100

63 18.5 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

500000

400000

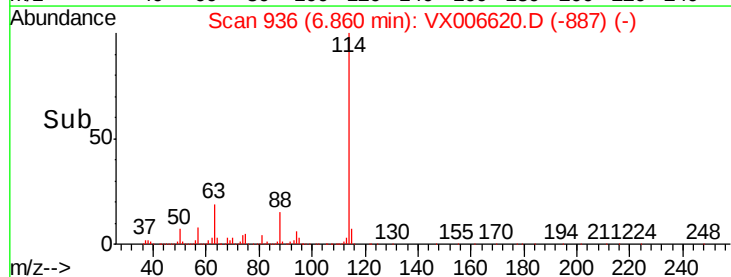
300000

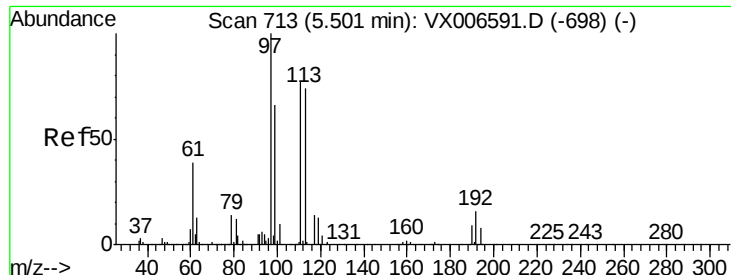
200000

100000

0

Time--> 6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 47.522 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006620.D

Acq: 19 Dec 2018 02:05

Instrument :

MSVOA_X

ClientSampleId :

SA.PZ182I-20181208

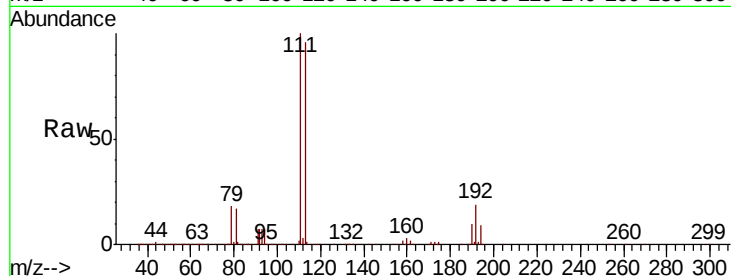
Tot Ion:113 Resp: 296679

Ion Ratio Lower Upper

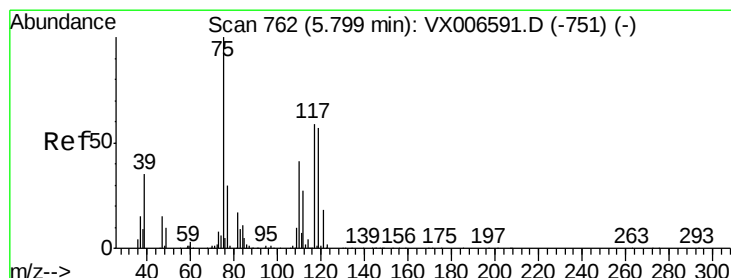
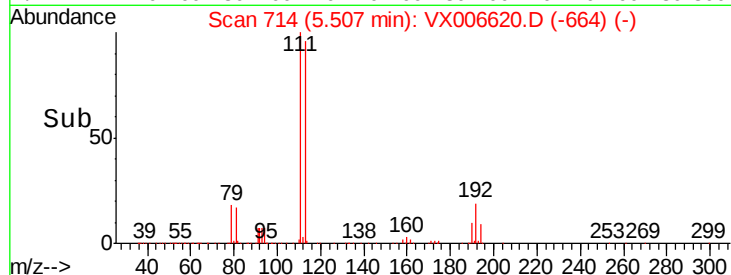
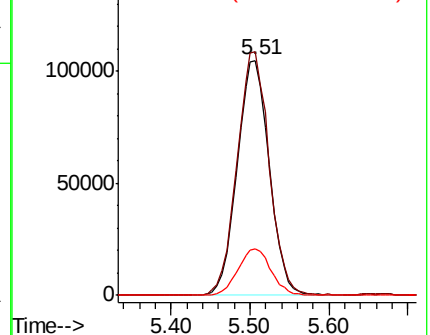
113 100

111 103.7 81.1 121.7

192 20.3 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: 5.125 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX006620.D

Acq: 19 Dec 2018 02:05

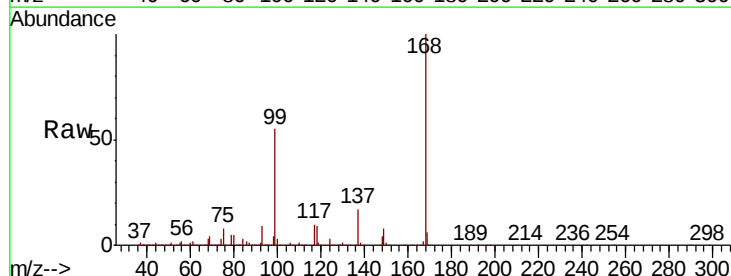
Tgt Ion: 75 Resp: 41908

Ion Ratio Lower Upper

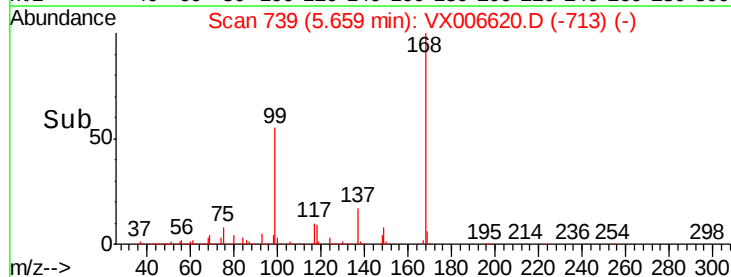
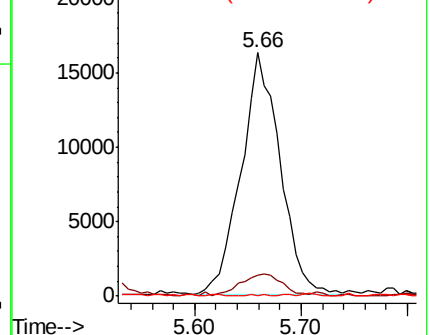
75 100

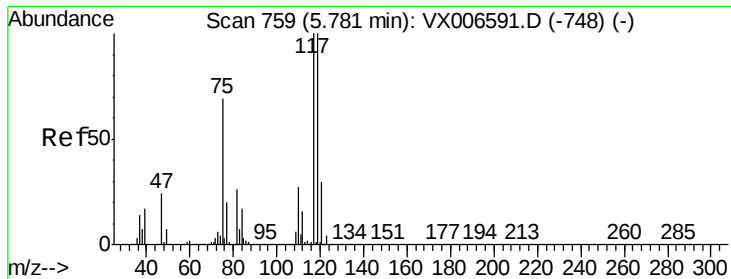
110 9.8 20.4 61.3#

77 0.3 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: 7.485 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006620.D

Acq: 19 Dec 2018 02:05

Instrument :

MSVOA_X

ClientSampleId :

SA.PZ1821-20181208

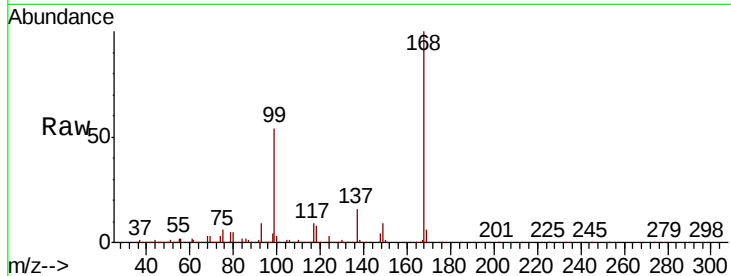
Tot Ion:117 Resp: 59481

Ion Ratio Lower Upper

117 100

119 4.1 75.8 113.8#

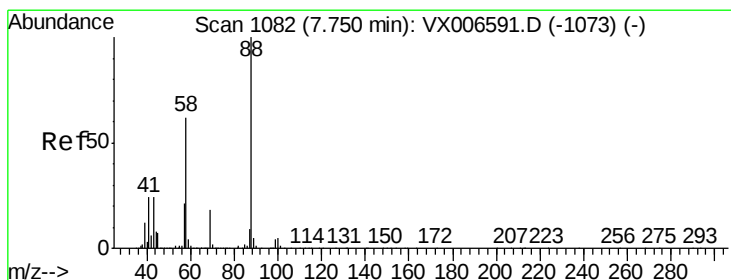
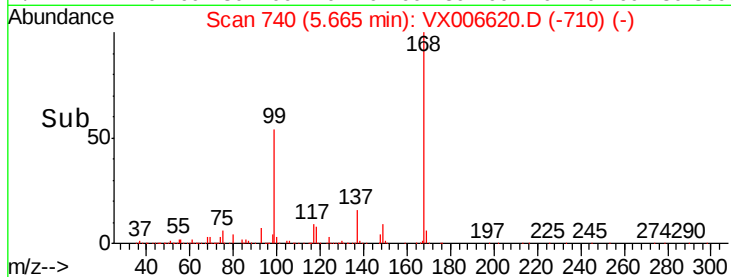
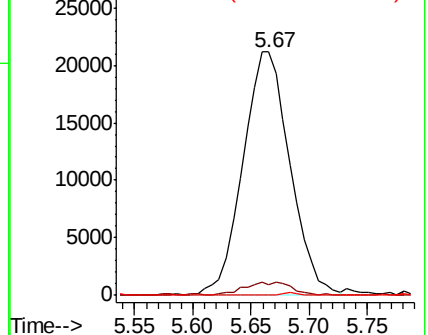
121 0.0 24.6 37.0#



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: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX006620.D

Acq: 19 Dec 2018 02:05

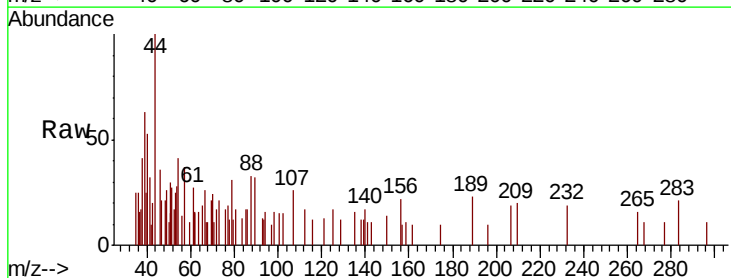
Tgt Ion: 88 Resp: 226

Ion Ratio Lower Upper

88 100

43 161.5 23.2 34.8#

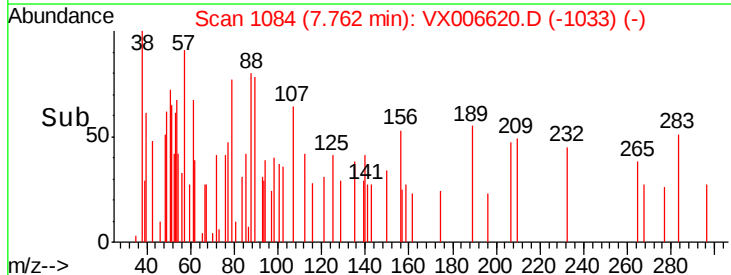
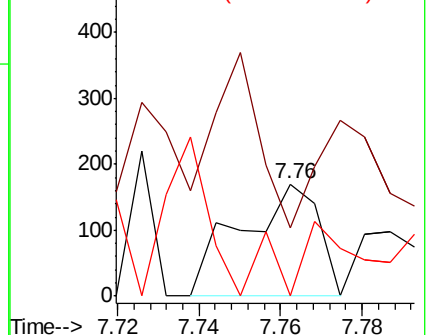
58 63.3 51.4 77.0

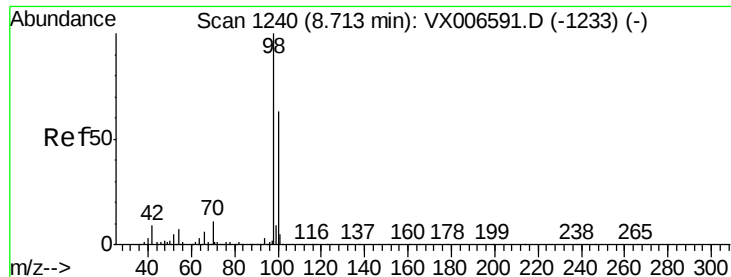


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.373 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006620.D

Acq: 19 Dec 2018 02:05

Instrument :

MSVOA_X

ClientSampleId :

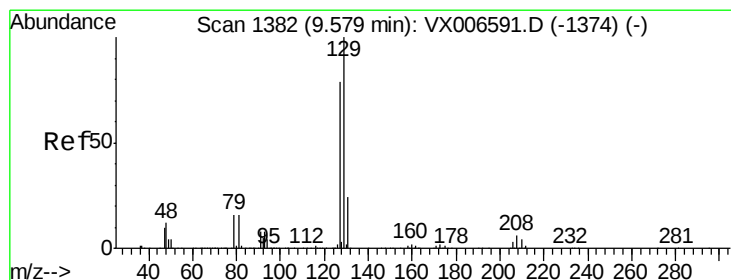
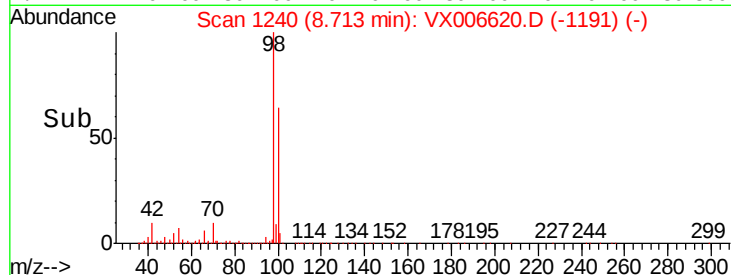
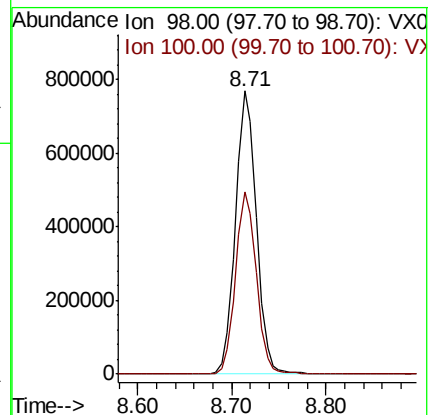
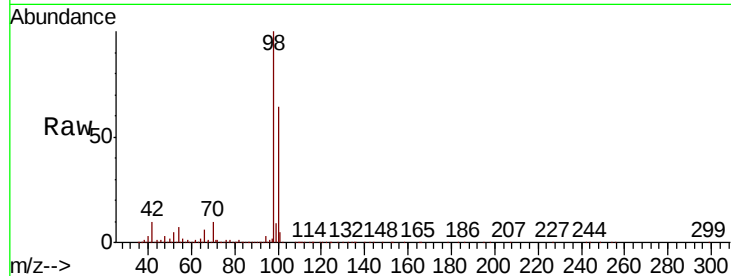
SA.PZ182I-20181208

Tot Ion: 98 Resp: 1185605

Ion Ratio Lower Upper

98 100

100 64.2 52.2 78.2



#60

Dibromochloromethane

Concen: 2.331 ug/l

RT: 9.64 min Scan# 1392

Delta R.T. 0.06 min

Lab File: VX006620.D

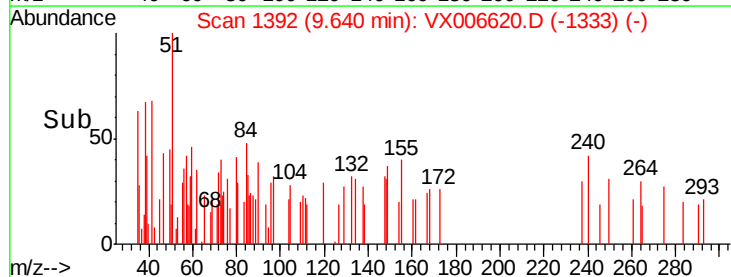
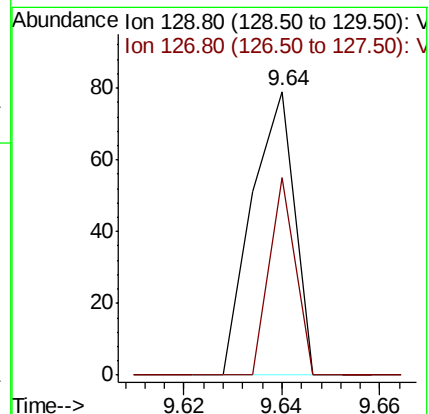
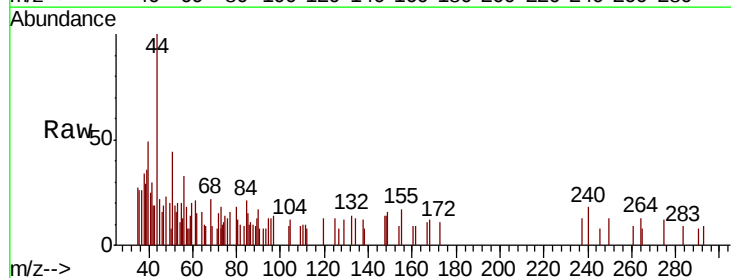
Acq: 19 Dec 2018 02:05

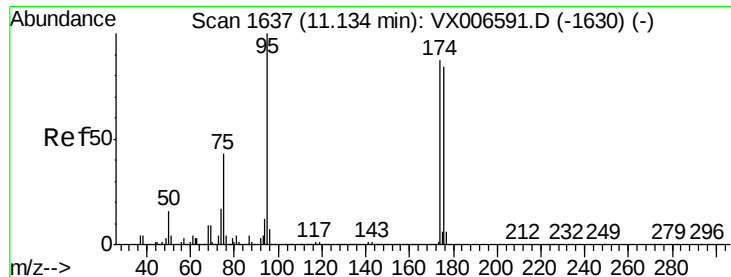
Tgt Ion: 129 Resp: 48

Ion Ratio Lower Upper

129 100

127 41.7 38.6 115.8





#62

4-Bromofluorobenzene

Concen: 49.494 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX006620.D

Acq: 19 Dec 2018 02:05

Instrument :

MSVOA_X

ClientSampleId :

SA.PZ182I-20181208

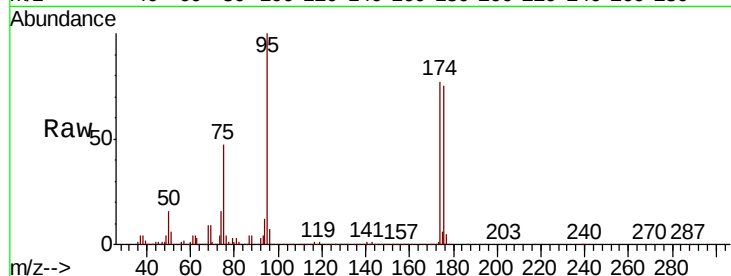
Tot Ion: 95 Resp: 426633

Ion Ratio Lower Upper

95 100

174 86.3 0.0 187.0

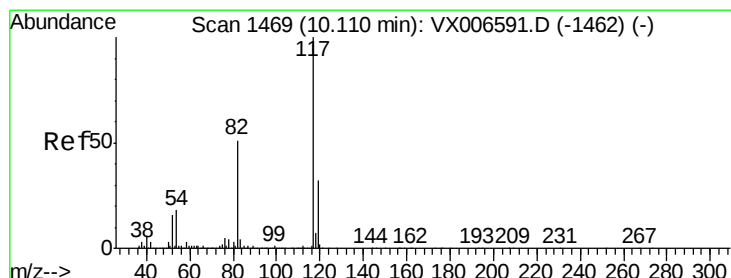
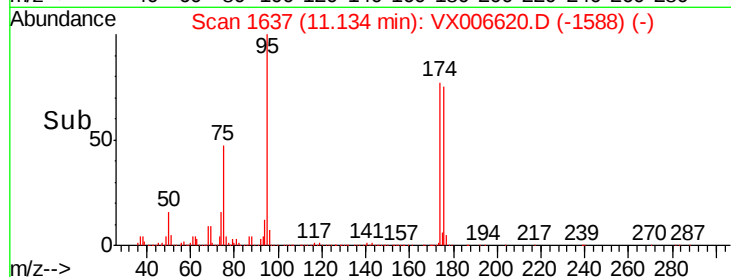
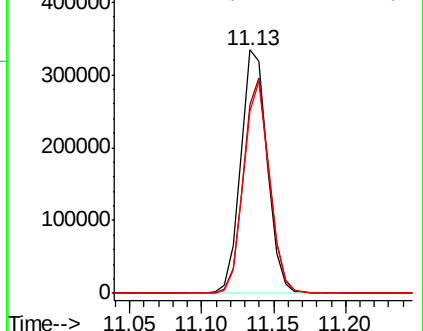
176 83.8 0.0 181.8



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: VX006620.D

Acq: 19 Dec 2018 02:05

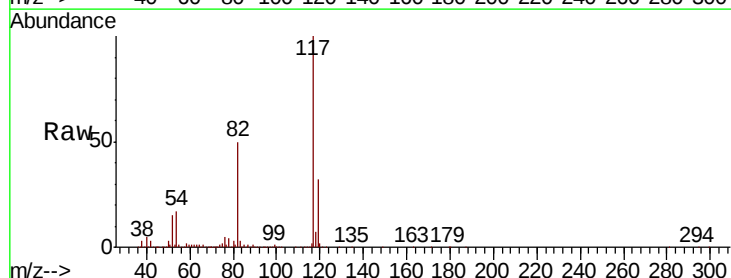
Tgt Ion: 117 Resp: 922383

Ion Ratio Lower Upper

117 100

82 50.2 39.6 59.4

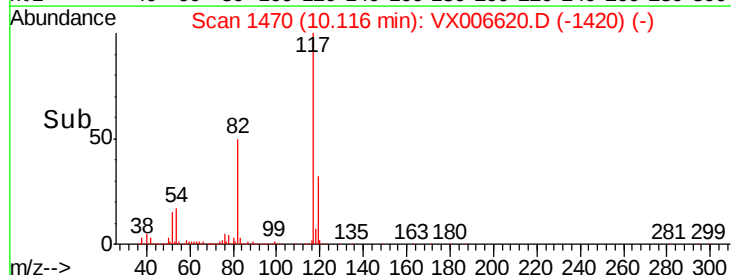
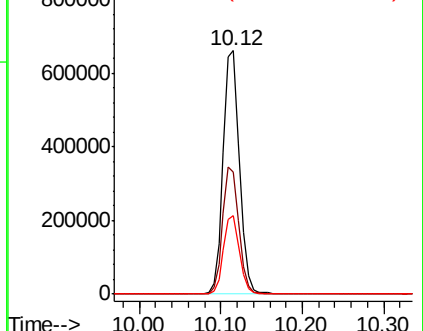
119 32.4 26.3 39.5

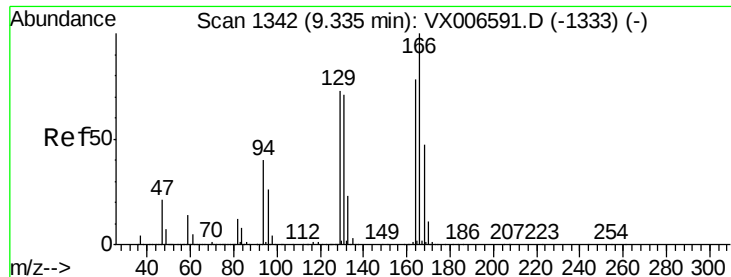


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 0.243 ug/l

RT: 9.33 min Scan# 1341

Delta R.T. -0.01 min

Lab File: VX006620.D

Acq: 19 Dec 2018 02:05

Instrument :

MSVOA_X

ClientSampleId :

SA.PZ182I-20181208

Tot Ion:164 Resp: 1776

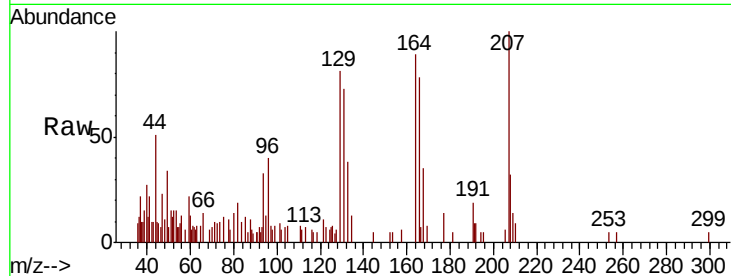
Ion Ratio Lower Upper

164 100

166 95.9 104.2 156.2#

129 91.0 72.6 108.8

131 81.8 70.3 105.5

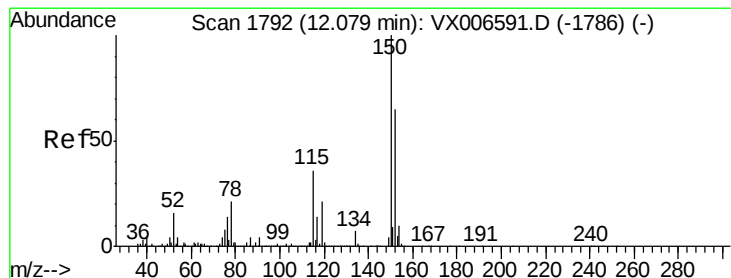
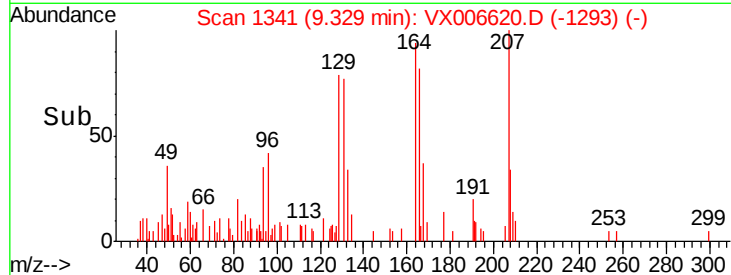
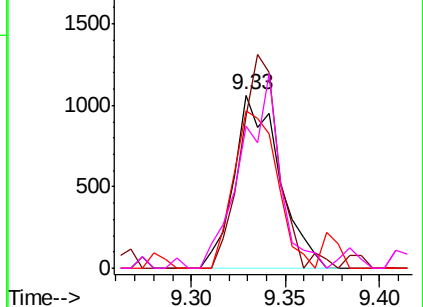


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): 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: VX006620.D

Acq: 19 Dec 2018 02:05

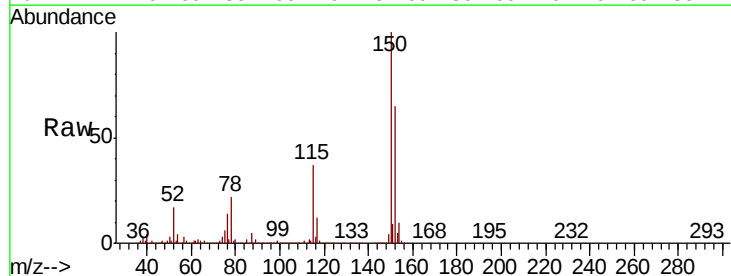
Tgt Ion:152 Resp: 441232

Ion Ratio Lower Upper

152 100

115 55.6 39.0 116.9

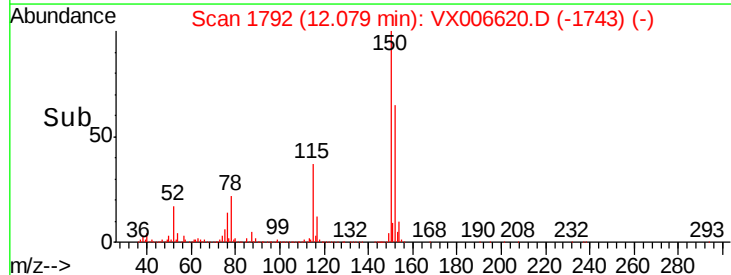
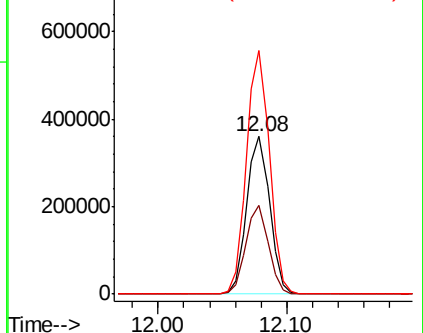
150 154.3 0.0 345.8

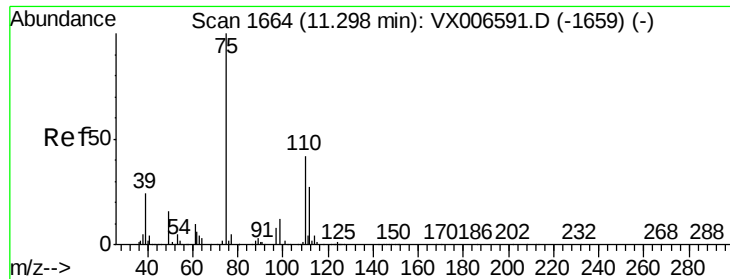


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

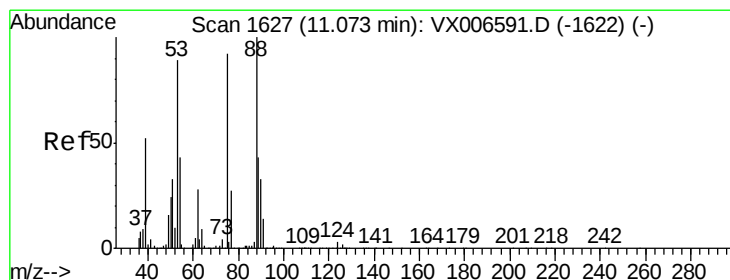
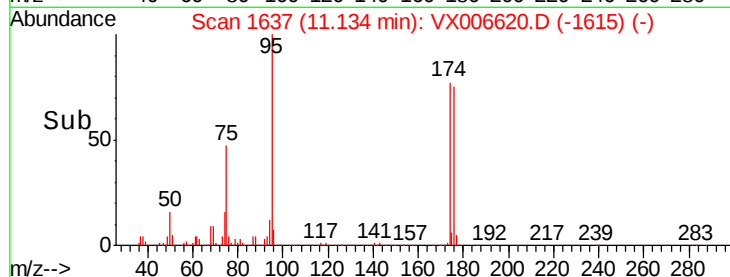
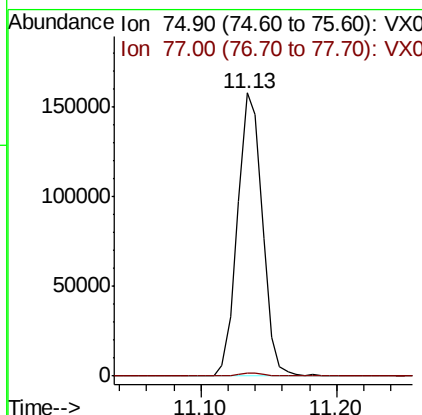
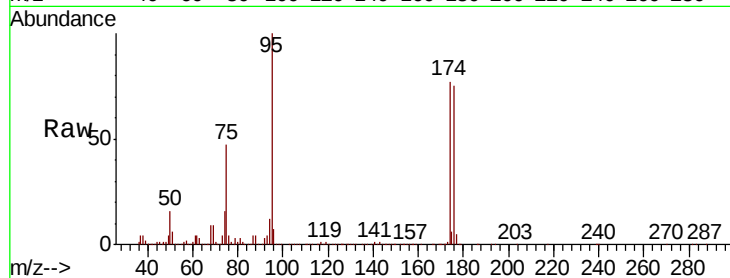




#76
 1,2,3-Trichloropropane
 Concen: 25.950 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX006620.D
 Acq: 19 Dec 2018 02:05

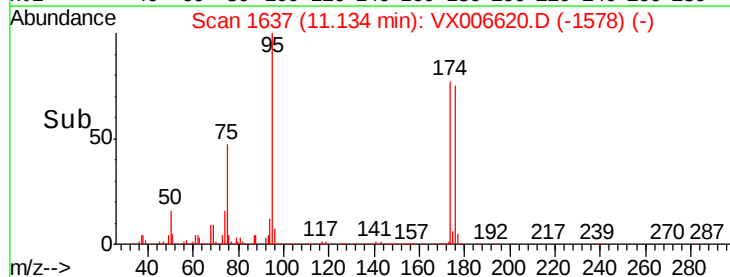
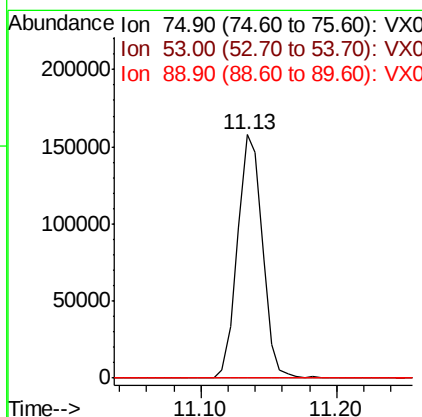
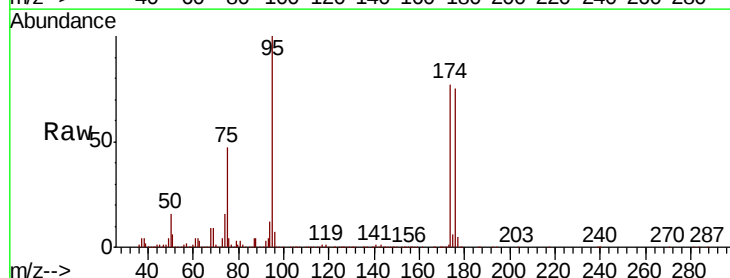
Instrument :
 MSVOA_X
 ClientSampleId :
 SA.PZ182I-20181208

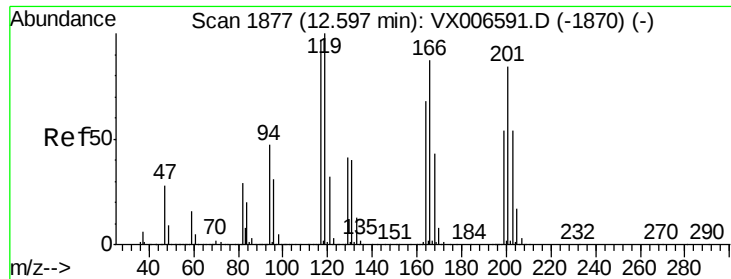
Tot Ion: 75 Resp: 200681
 Ion Ratio Lower Upper
 75 100
 77 1.2 19.9 59.7#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 72.408 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX006620.D
 Acq: 19 Dec 2018 02:05

Tgt Ion: 75 Resp: 200681
 Ion Ratio Lower Upper
 75 100
 53 0.1 64.4 96.6#
 89 0.1 44.2 66.4#





#90

Hexachloroethane

Concen: 3.300 ug/l

RT: 12.65 min Scan# 1885

Delta R.T. 0.05 min

Lab File: VX006620.D

Acq: 19 Dec 2018 02:05

Instrument :

MSVOA_X

ClientSampleId :

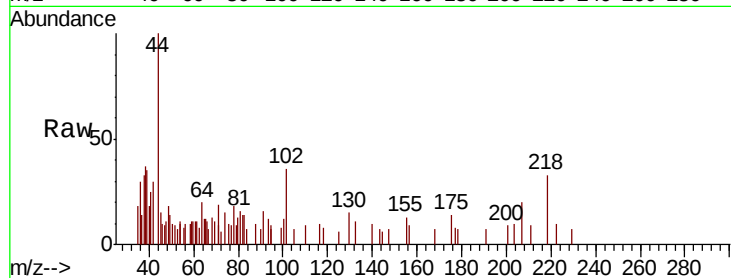
SA.PZ182I-20181208

Tot Ion:117 Resp: 29

Ion Ratio Lower Upper

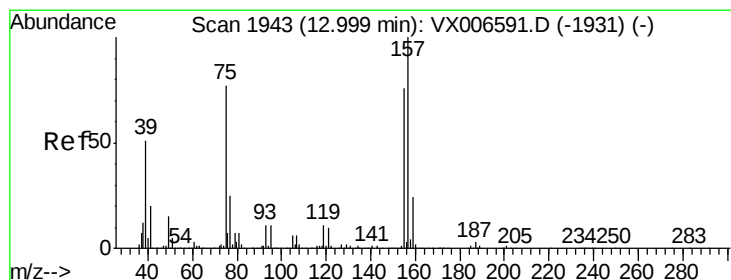
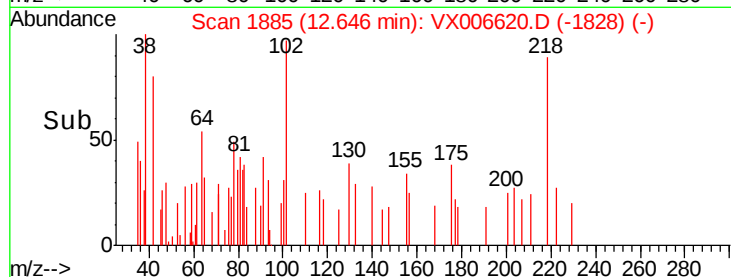
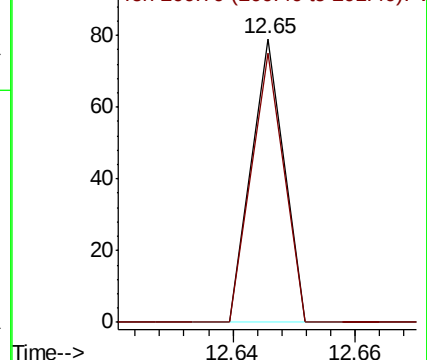
117 100

201 93.1 44.7 134.1



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.249 ug/l

RT: 13.00 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VX006620.D

Acq: 19 Dec 2018 02:05

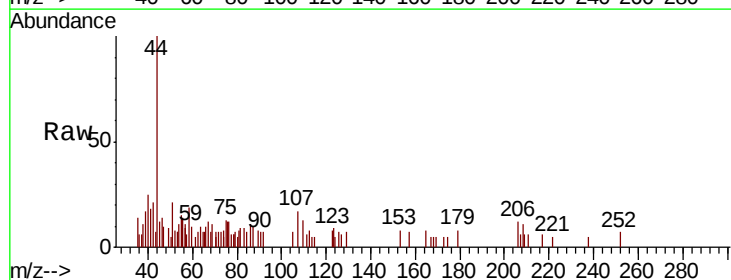
Tgt Ion: 75 Resp: 462

Ion Ratio Lower Upper

75 100

155 0.0 53.4 160.3#

157 10.8 68.0 203.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

