

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122018\
 Data File : VX006679.D
 Acq On : 20 Dec 2018 16:41
 Operator : JC/MD
 Sample : J6484-14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 21 03:32:32 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	613525	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	978779	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	900531	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	429394	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	334525	50.59	ug/l	0.00
Spiked Amount			Recovery	=	101.18%	
35) Dibromofluoromethane	5.50	113	290369	46.91	ug/l	0.00
Spiked Amount			Recovery	=	93.82%	
50) Toluene-d8	8.71	98	1168826	50.09	ug/l	0.00
Spiked Amount			Recovery	=	100.18%	
62) 4-Bromofluorobenzene	11.14	95	415622	48.63	ug/l	0.00
Spiked Amount			Recovery	=	97.26%	

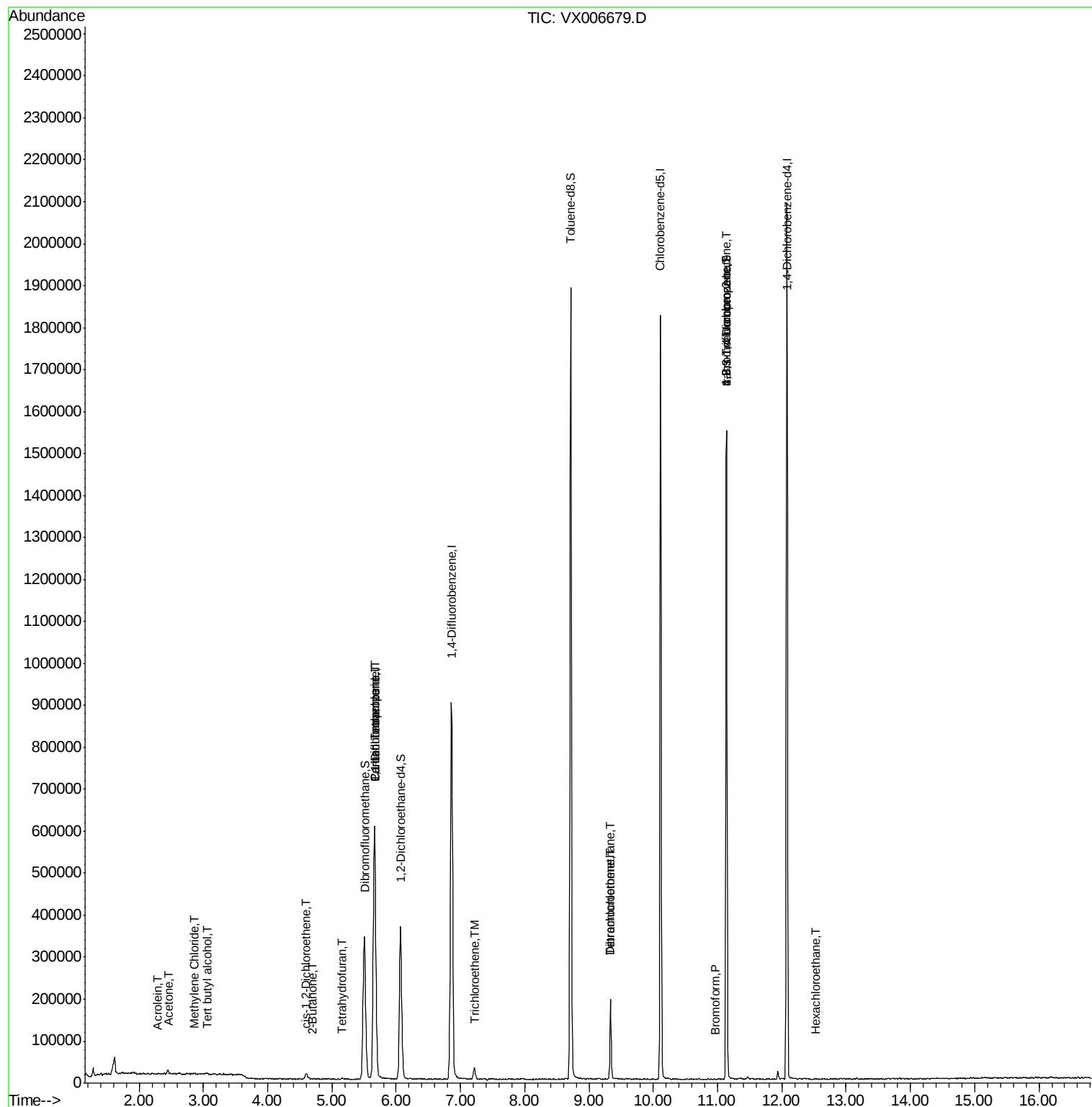
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	498	Below Cal	#	40
11) Tert butyl alcohol	3.07	59	1257	0.852	ug/l #	72
13) Acrolein	2.29	56	296	0.297	ug/l #	13
16) Acetone	2.45	43	10980	3.614	ug/l #	86
20) Methylene Chloride	2.86	84	1314	0.209	ug/l #	50
25) 2-Butanone	4.70	43	1566	0.366	ug/l #	78
27) cis-1,2-Dichloroethene	4.60	96	9906	1.478	ug/l	88
28) Bromochloromethane	5.03	49	128	Below Cal	#	4
29) Tetrahydrofuran	5.16	42	1545	0.549	ug/l #	64
36) 1,1-Dichloropropene	5.67	75	40861	5.040	ug/l #	49
38) Carbon Tetrachloride	5.67	117	58167	7.383	ug/l #	15
44) Trichloroethene	7.21	130	11181	1.499	ug/l	98
49) 1,4-Dioxane	7.70	88	214	Below Cal	#	47
60) Dibromochloromethane	9.34	129	36142	7.381	ug/l #	10
64) Tetrachloroethene	9.34	164	38361	5.380	ug/l	95
71) Bromoform	10.96	173	99	4.477	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	194535	24.378	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	194535	72.142	ug/l #	10
90) Hexachloroethane	12.52	117	49	3.304	ug/l	73

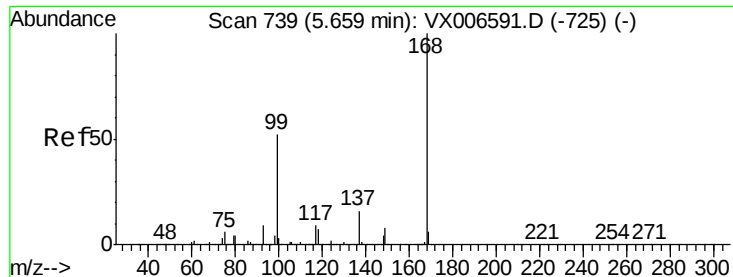
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Dec 19 15:20:58 2018
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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: VX006679.D

Acq: 20 Dec 2018 16:41

Instrument :

MSVOA_X

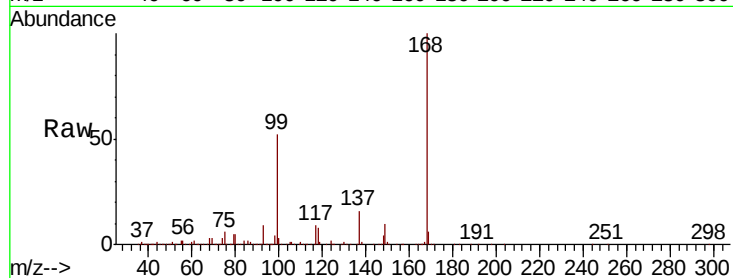
ClientSampleId :

Tot Ion:168 Resp: 613525

Ion Ratio Lower Upper

168 100

99 51.7 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

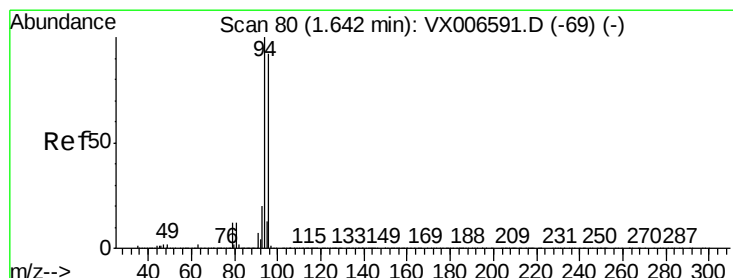
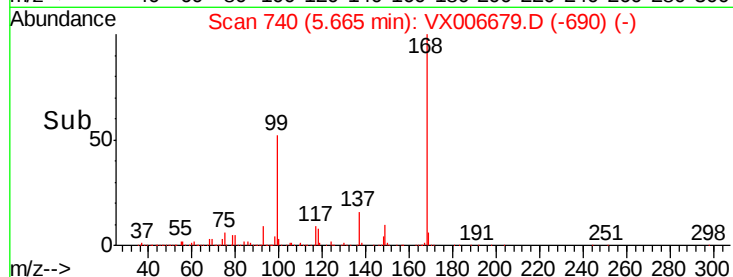
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX006679.D

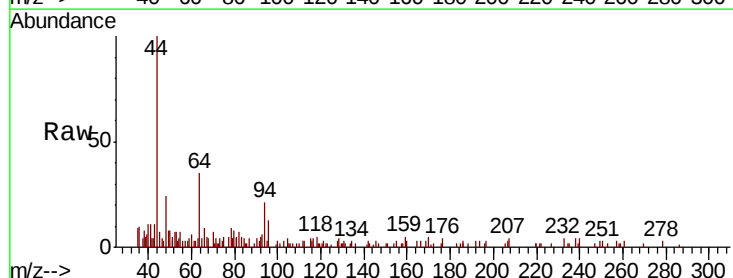
Acq: 20 Dec 2018 16:41

Tgt Ion: 94 Resp: 498

Ion Ratio Lower Upper

94 100

96 34.7 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

800

600

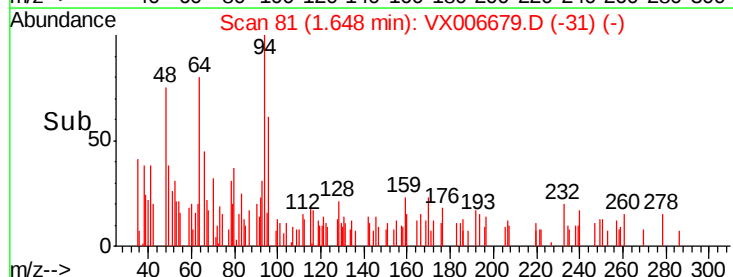
400

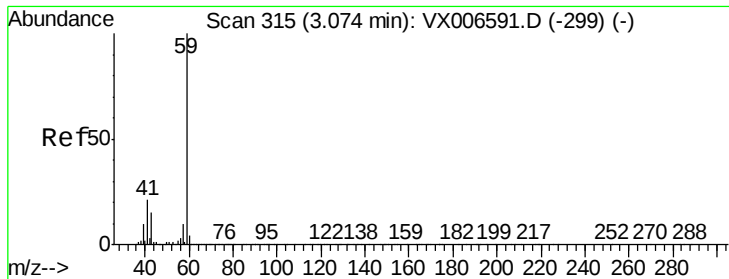
200

0

Time-->

1.63 1.64 1.65 1.66 1.67



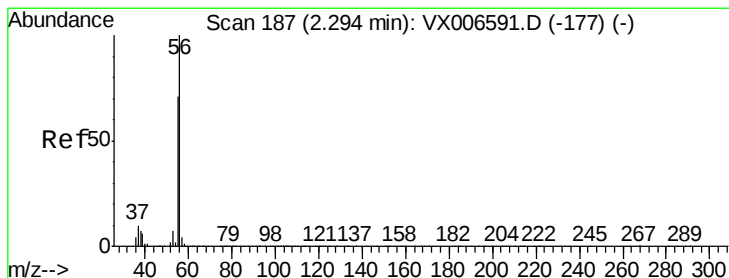
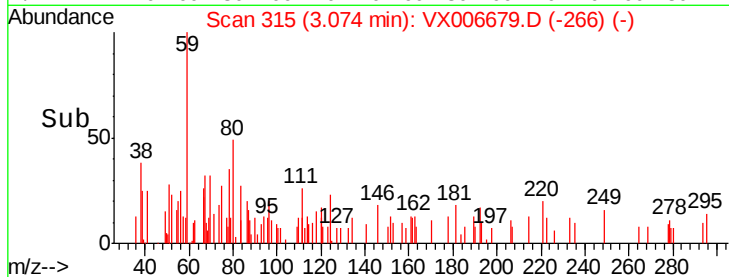
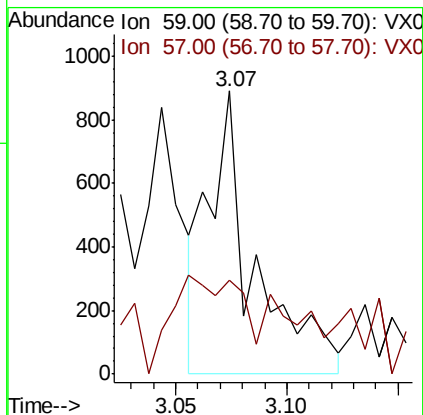
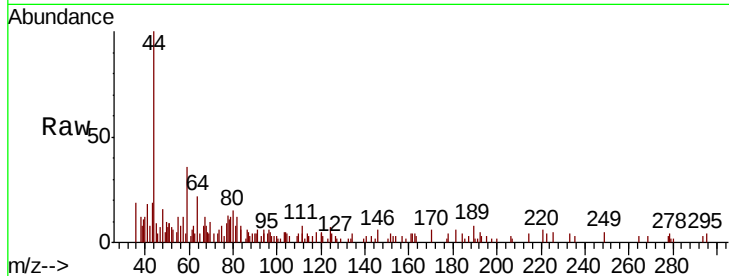


#11

Tert butyl alcohol
 Concen: 0.852 ug/l
 RT: 3.07 min Scan# 315
 Delta R.T. -0.00 min
 Lab File: VX006679.D
 Acq: 20 Dec 2018 16:41

Instrument :
 MSVOA_X
 ClientSampleId :

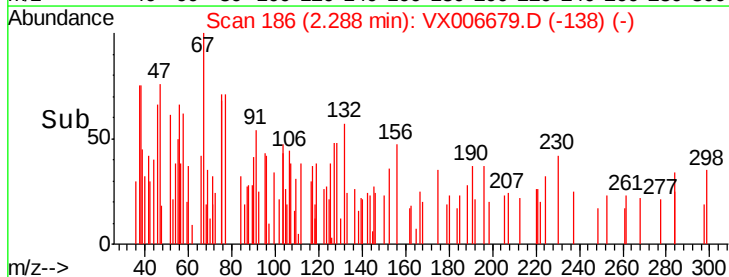
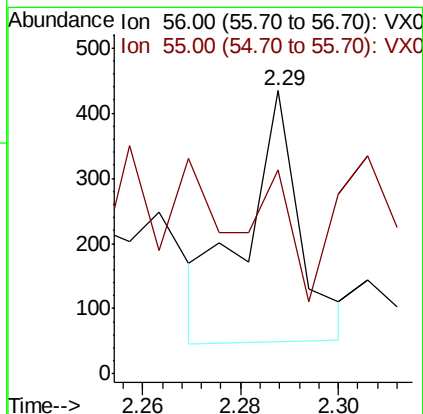
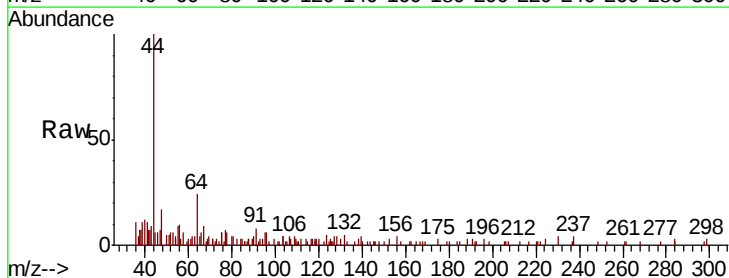
Tot Ion: 59 Resp: 1257
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

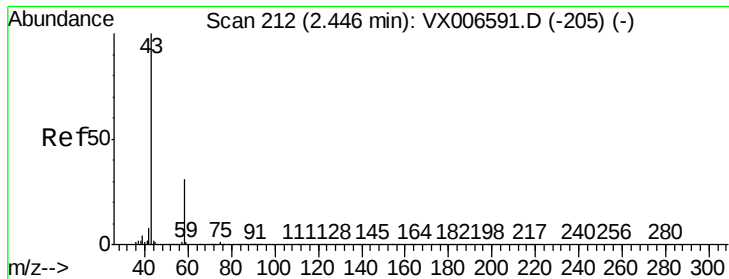


#13

Acrolein
 Concen: 0.297 ug/l
 RT: 2.29 min Scan# 186
 Delta R.T. -0.01 min
 Lab File: VX006679.D
 Acq: 20 Dec 2018 16:41

Tgt Ion: 56 Resp: 296
 Ion Ratio Lower Upper
 56 100
 55 0.0 58.2 87.4#





#16

Acetone

Concen: 3.614 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX006679.D

Acq: 20 Dec 2018 16:41

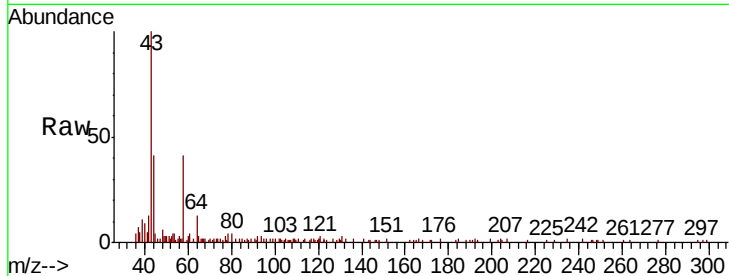
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 10980

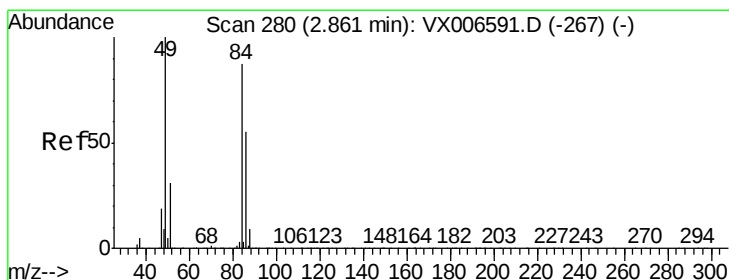
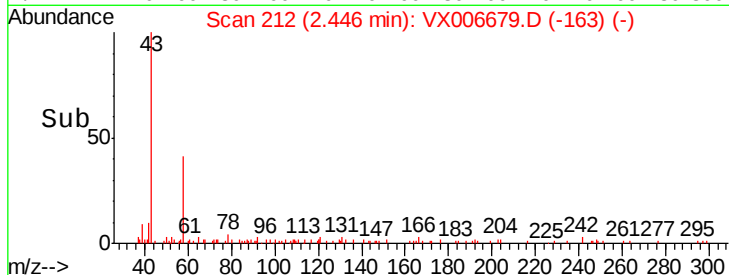
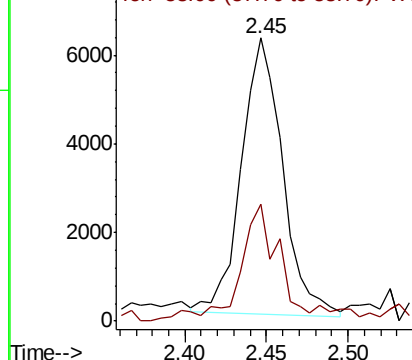
Ion Ratio Lower Upper

43 100

58 38.9 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: 0.209 ug/l

RT: 2.86 min Scan# 280

Delta R.T. -0.00 min

Lab File: VX006679.D

Acq: 20 Dec 2018 16:41

Tgt Ion: 84 Resp: 1314

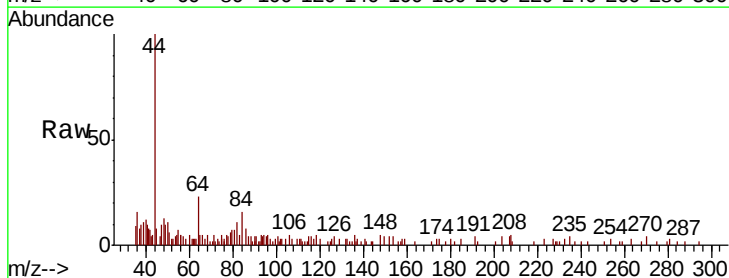
Ion Ratio Lower Upper

84 100

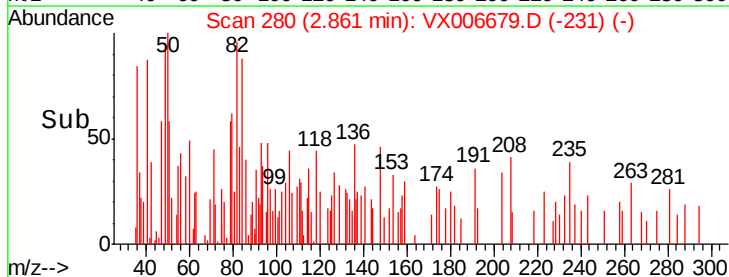
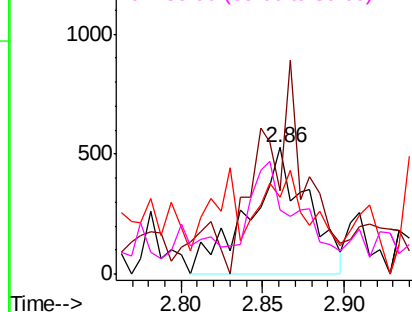
49 41.7 91.8 137.6#

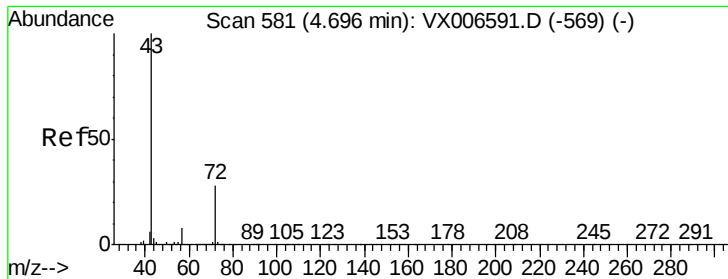
51 42.9 28.5 42.7#

86 32.4 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





#25

2-Butanone

Concen: 0.366 ug/l

RT: 4.70 min Scan# 581

Delta R.T. -0.00 min

Lab File: VX006679.D

Acq: 20 Dec 2018 16:41

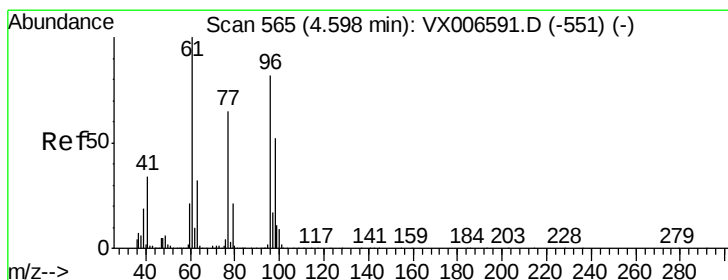
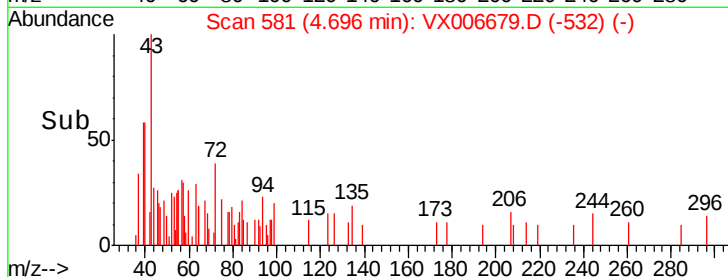
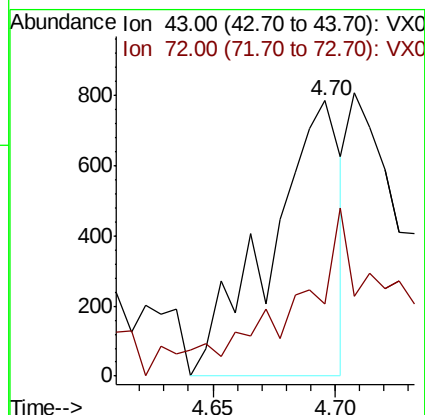
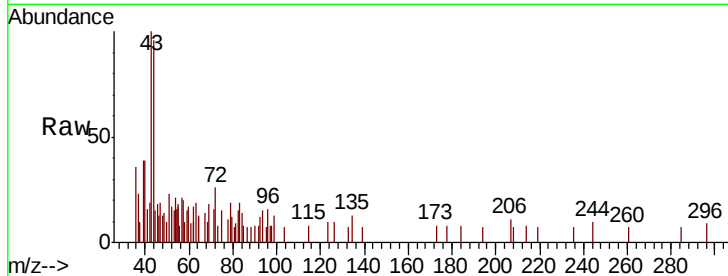
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 1566

Ion Ratio Lower Upper

43 100

72 16.7 22.4 33.6#



#27

cis-1,2-Dichloroethene

Concen: 1.478 ug/l

RT: 4.60 min Scan# 565

Delta R.T. -0.00 min

Lab File: VX006679.D

Acq: 20 Dec 2018 16:41

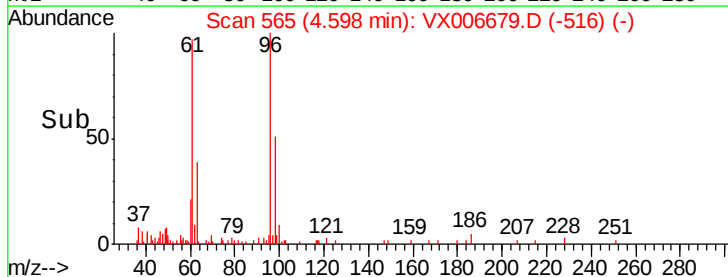
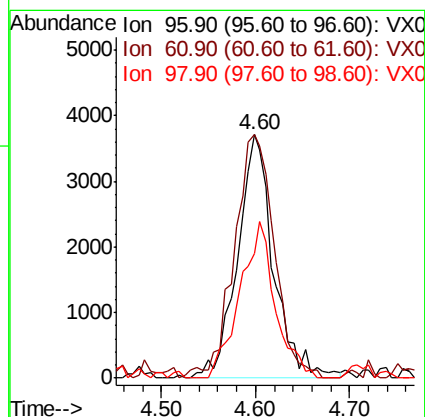
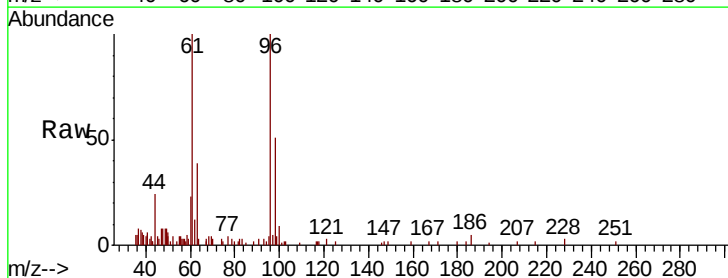
Tgt Ion: 96 Resp: 9906

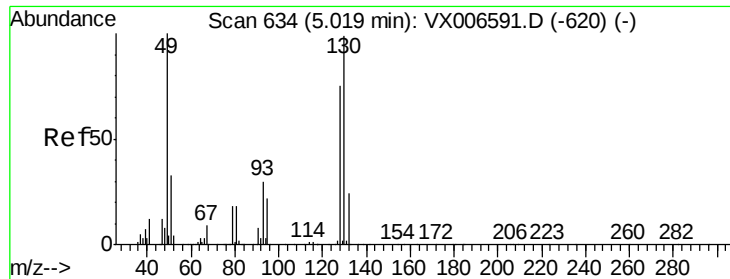
Ion Ratio Lower Upper

96 100

61 111.4 0.0 258.6

98 62.9 0.0 132.0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 636

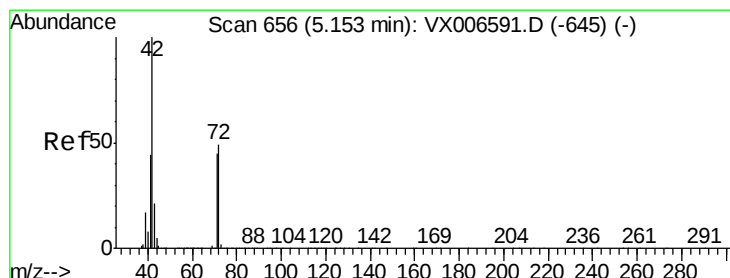
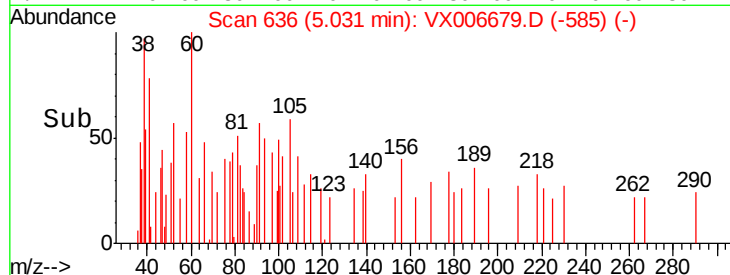
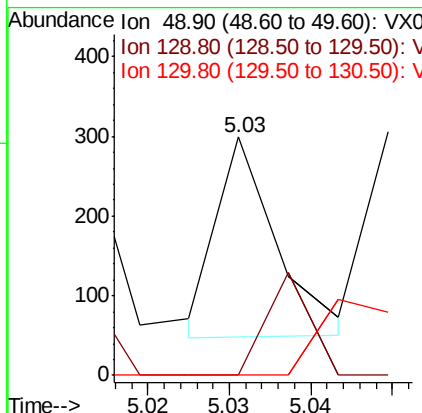
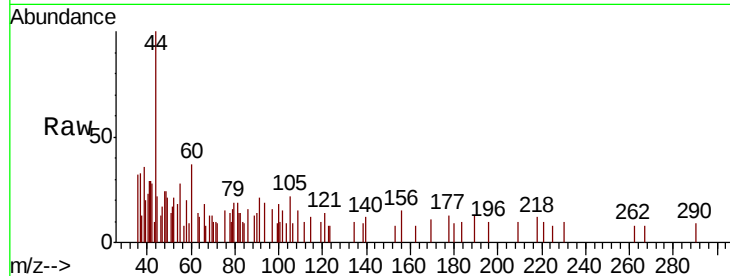
Delta R.T. 0.01 min

Lab File: VX006679.D

Acq: 20 Dec 2018 16:41

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 49 Resp: 128
Ion Ratio Lower Upper
49 100
129 0.0 0.0 5.4
130 0.0 77.7 116.5#



#29

Tetrahydrofuran

Concen: 0.549 ug/l

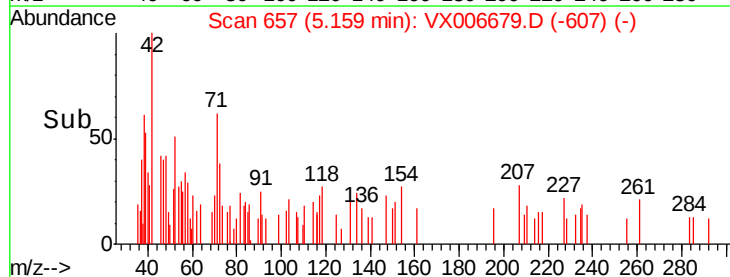
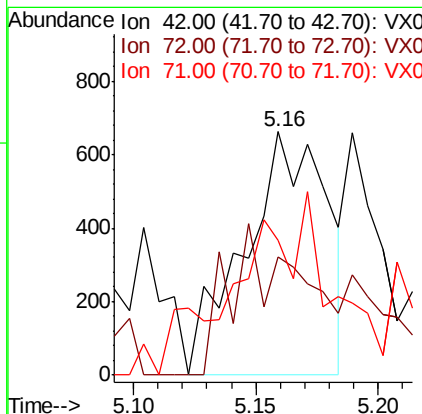
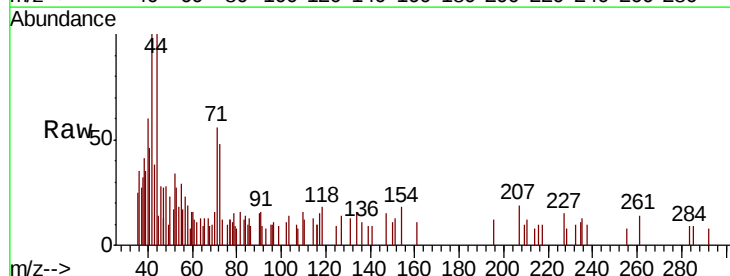
RT: 5.16 min Scan# 657

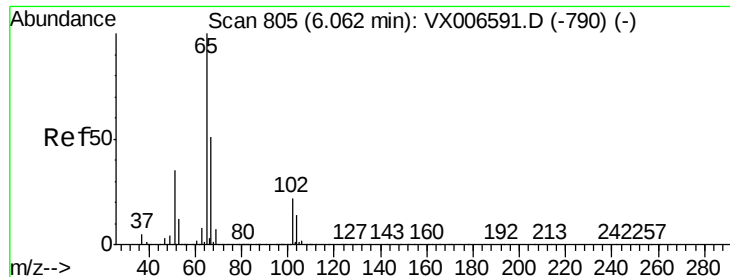
Delta R.T. 0.01 min

Lab File: VX006679.D

Acq: 20 Dec 2018 16:41

Tgt Ion: 42 Resp: 1545
Ion Ratio Lower Upper
42 100
72 25.4 38.9 58.3#
71 19.7 36.2 54.4#





#33

1,2-Dichloroethane-d4

Concen: 50.591 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006679.D

Acq: 20 Dec 2018 16:41

Instrument :

MSVOA_X

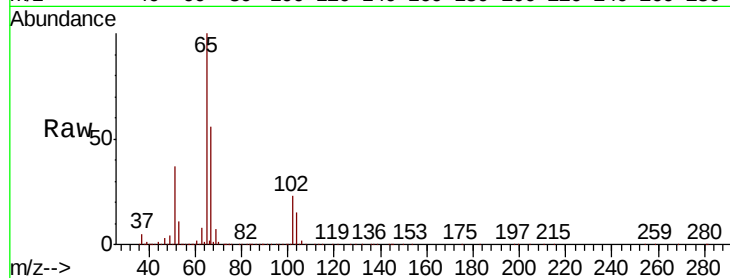
ClientSampleId :

Tot Ion: 65 Resp: 334525

Ion Ratio Lower Upper

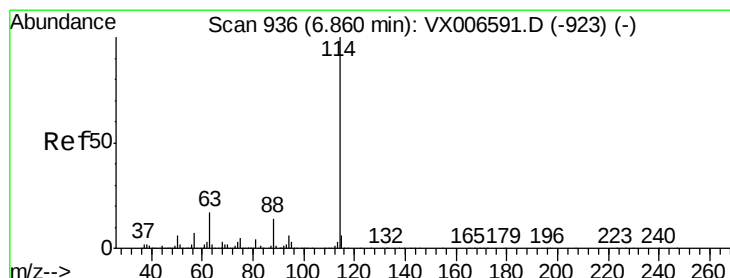
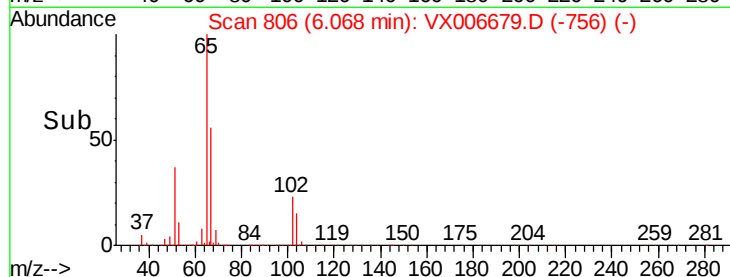
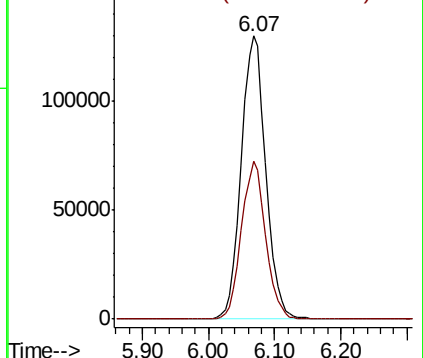
65 100

67 55.0 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006679.D

Acq: 20 Dec 2018 16:41

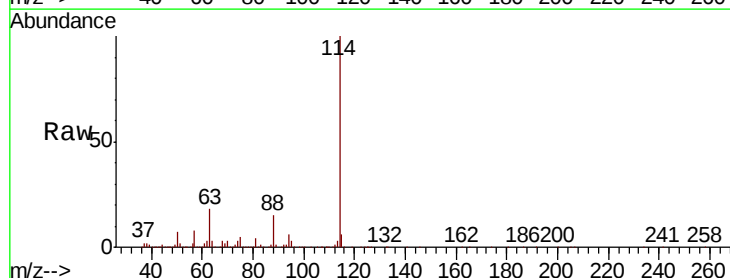
Tgt Ion: 114 Resp: 978779

Ion Ratio Lower Upper

114 100

63 18.2 0.0 34.8

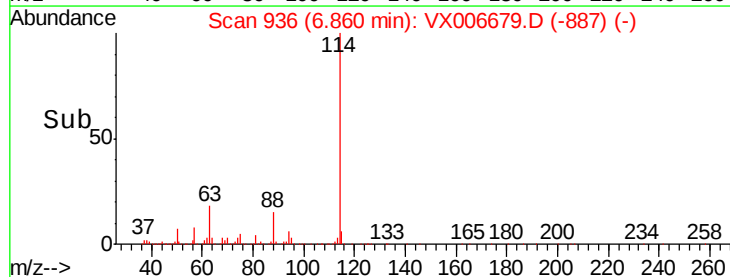
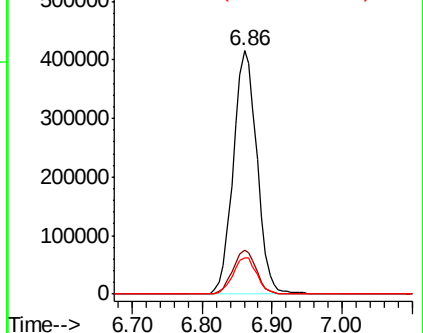
88 14.9 0.0 28.8

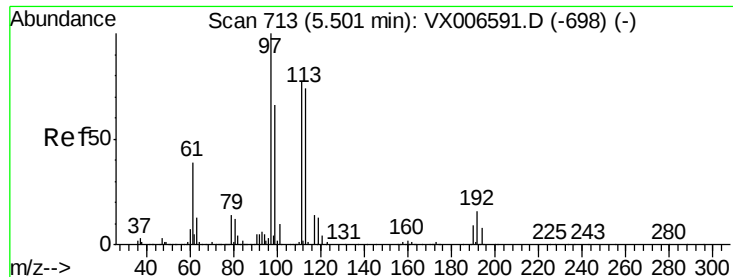


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 46.912 ug/l

RT: 5.50 min Scan# 713

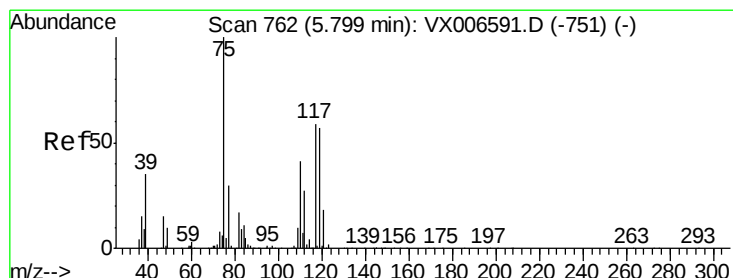
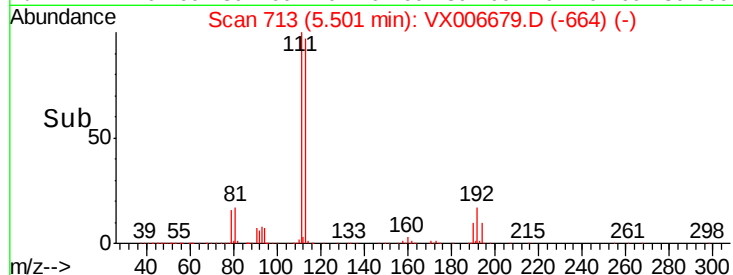
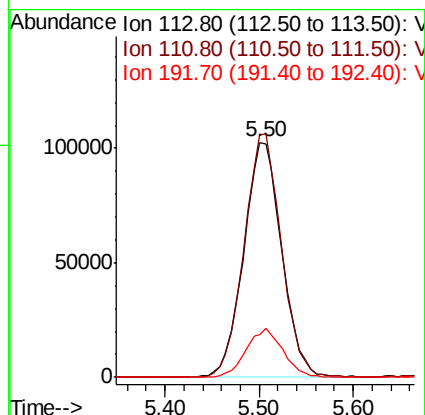
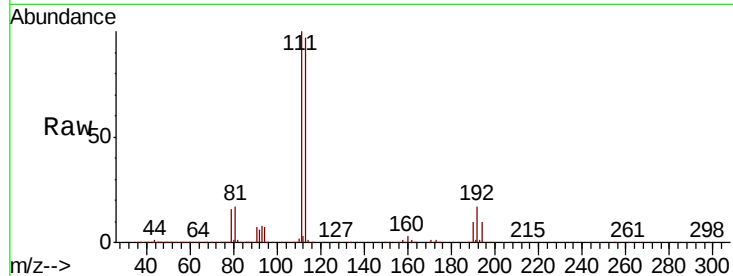
Delta R.T. -0.00 min

Lab File: VX006679.D

Acq: 20 Dec 2018 16:41

Instrument :
MSVOA_X
ClientSampled :

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.6	81.6	122.4
192	20.2	16.7	25.1



#36

1,1-Dichloropropene

Concen: 5.040 ug/l

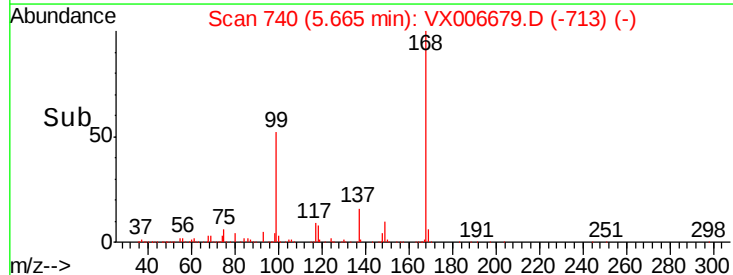
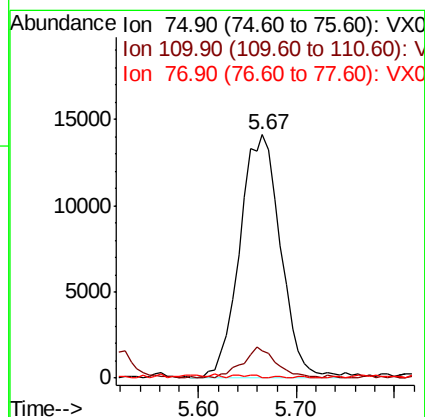
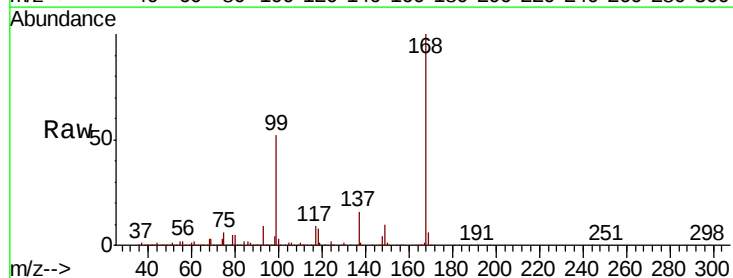
RT: 5.67 min Scan# 740

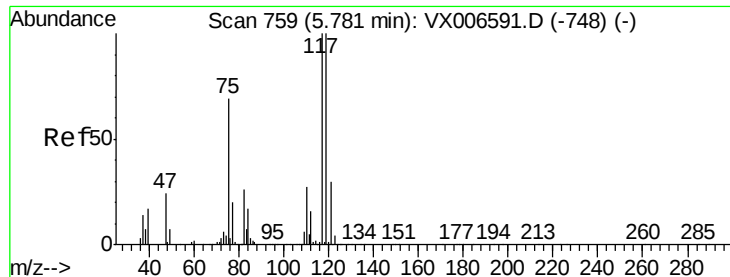
Delta R.T. -0.13 min

Lab File: VX006679.D

Acq: 20 Dec 2018 16:41

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.7	20.2	60.5#
77	0.1	24.8	37.2#

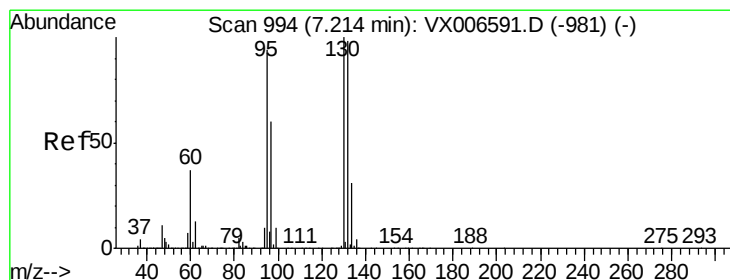
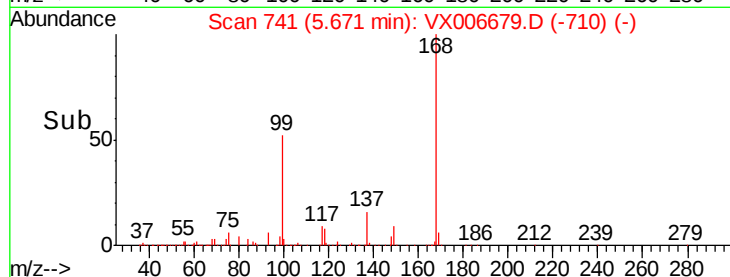
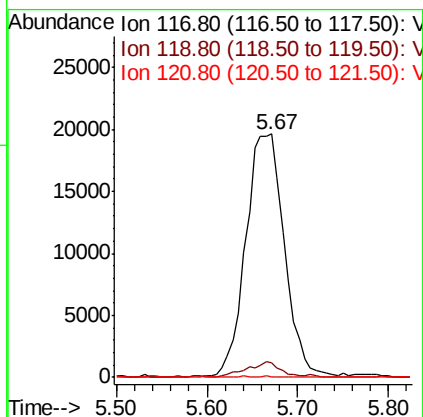
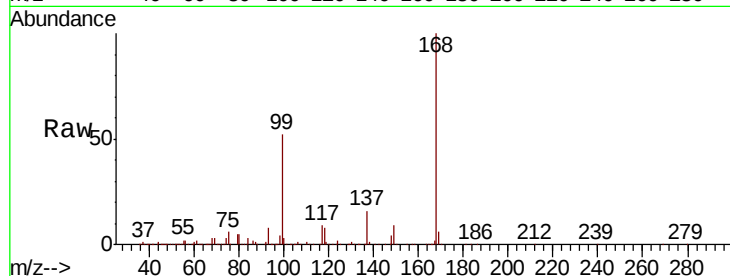




#38
Carbon Tetrachloride
Concen: 7.383 ug/l
RT: 5.67 min Scan# 741
Delta R.T. -0.11 min
Lab File: VX006679.D
Acq: 20 Dec 2018 16:41

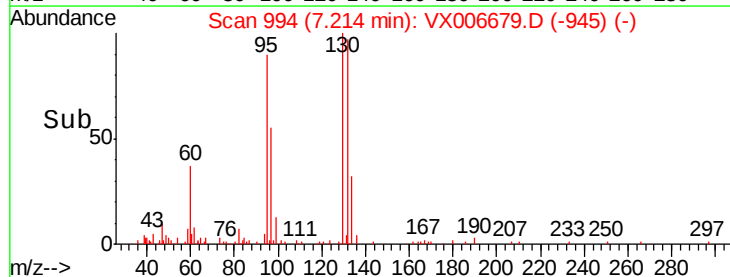
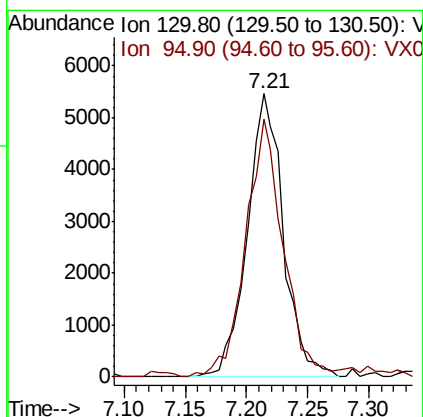
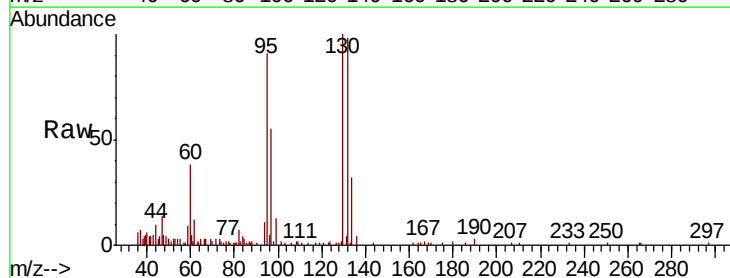
Instrument :
MSVOA_X
ClientSampled :

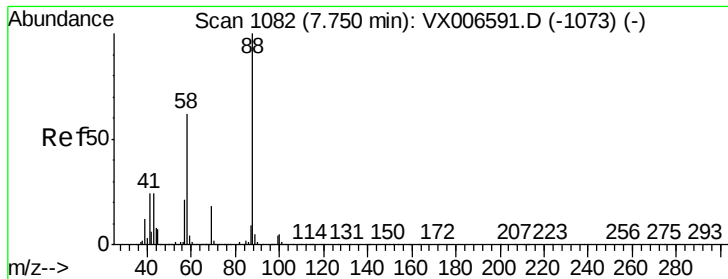
Tot Ion:117 Resp: 58167
Ion Ratio Lower Upper
117 100
119 5.7 79.4 119.2#
121 0.3 24.0 36.0#



#44
Trichloroethene
Concen: 1.499 ug/l
RT: 7.21 min Scan# 994
Delta R.T. -0.00 min
Lab File: VX006679.D
Acq: 20 Dec 2018 16:41

Tgt Ion:130 Resp: 11181
Ion Ratio Lower Upper
130 100
95 91.3 0.0 187.0





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.70 min Scan# 1073

Delta R.T. -0.05 min

Lab File: VX006679.D

Acq: 20 Dec 2018 16:41

Instrument :

MSVOA_X

ClientSampleId :

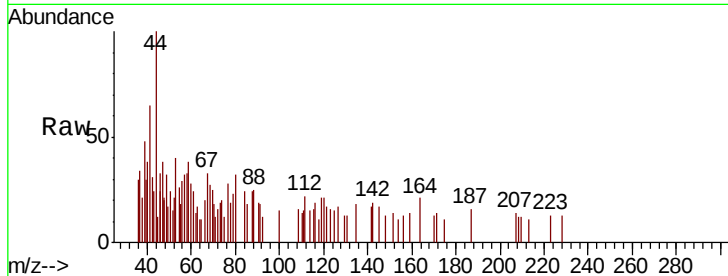
Tot Ion: 88 Resp: 214

Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

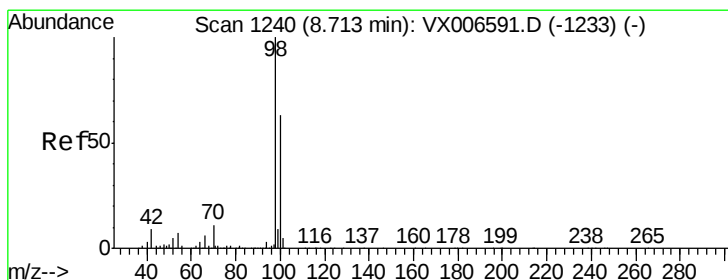
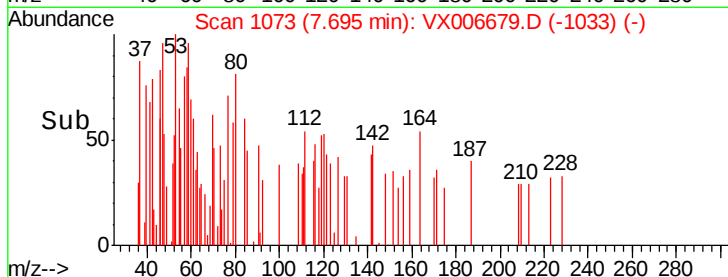
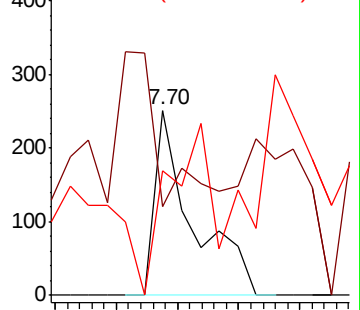
58 105.1 51.0 76.4#



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: 50.089 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006679.D

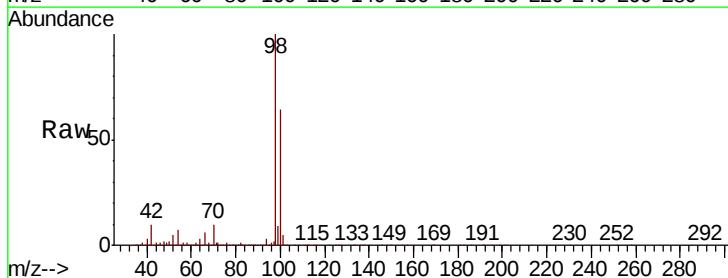
Acq: 20 Dec 2018 16:41

Tgt Ion: 98 Resp: 1168826

Ion Ratio Lower Upper

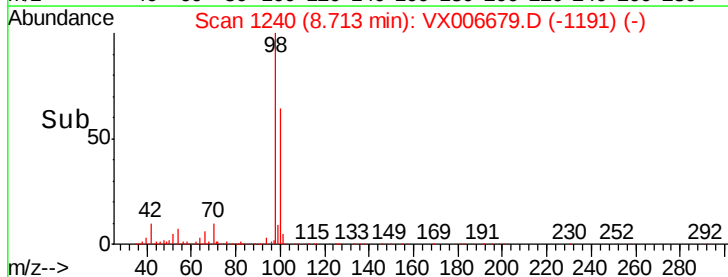
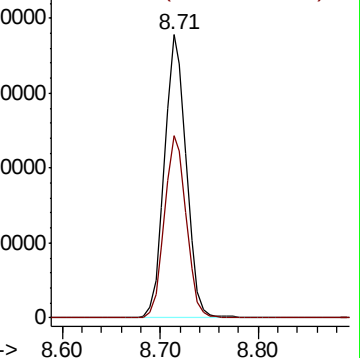
98 100

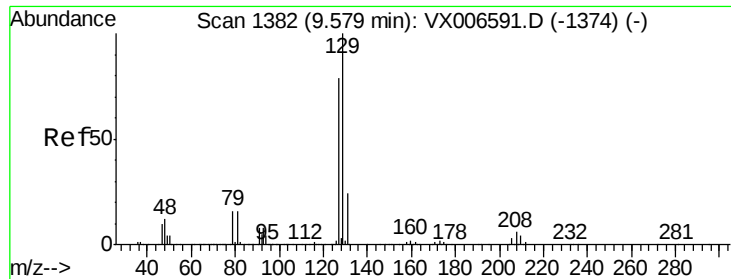
100 64.8 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#60

Dibromochloromethane

Concen: 7.381 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX006679.D

Acq: 20 Dec 2018 16:41

Instrument :

MSVOA_X

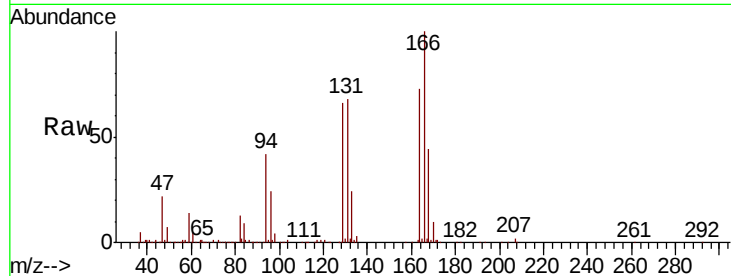
ClientSampled :

Tot Ion:129 Resp: 36142

Ion Ratio Lower Upper

129 100

127 0.3 39.3 117.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.34

25000

20000

15000

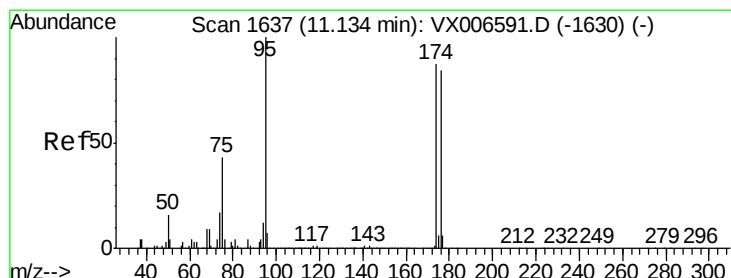
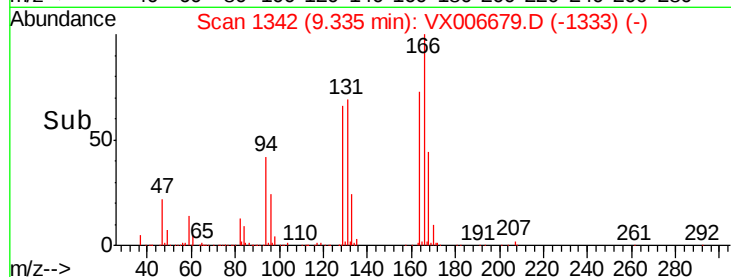
10000

5000

0

9.30 9.40

Time-->



#62

4-Bromofluorobenzene

Concen: 48.632 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.01 min

Lab File: VX006679.D

Acq: 20 Dec 2018 16:41

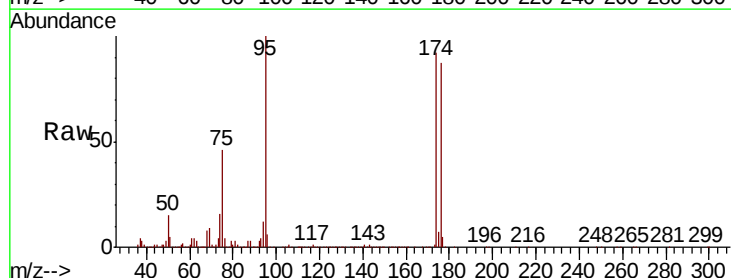
Tgt Ion: 95 Resp: 415622

Ion Ratio Lower Upper

95 100

174 88.1 0.0 182.2

176 84.6 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

400000

300000

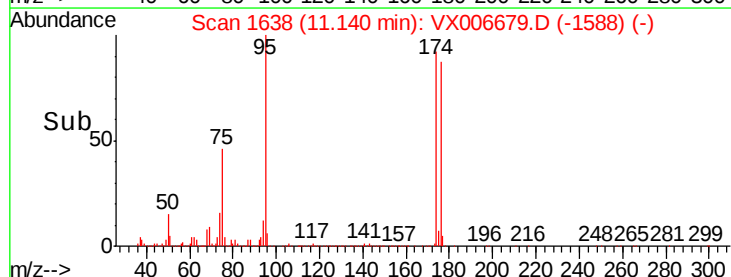
200000

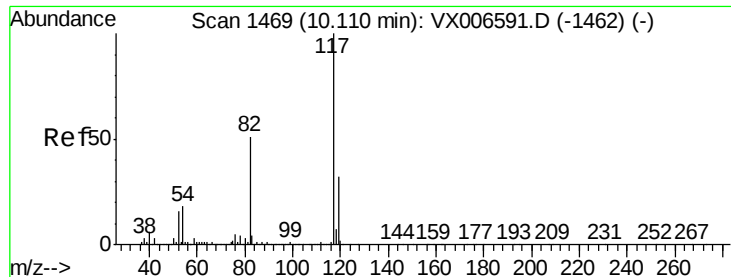
100000

0

11.10 11.20

Time-->

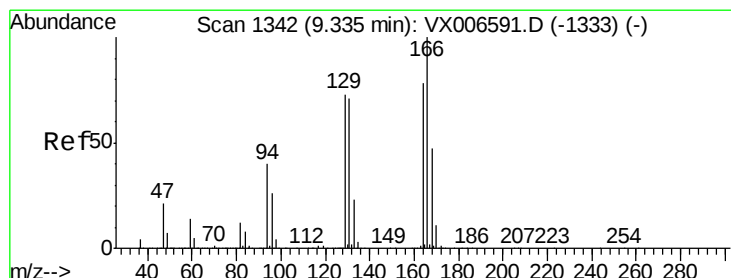
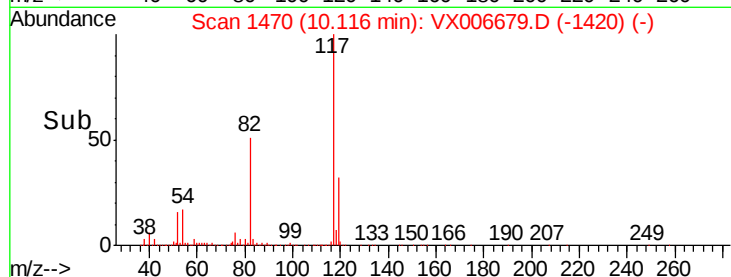
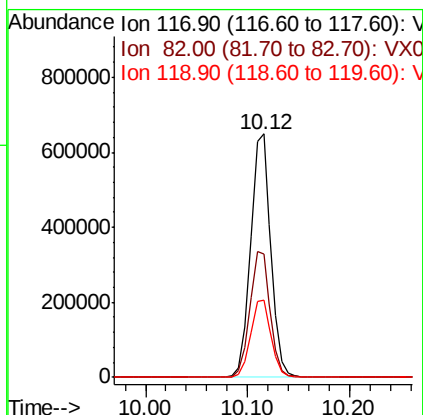
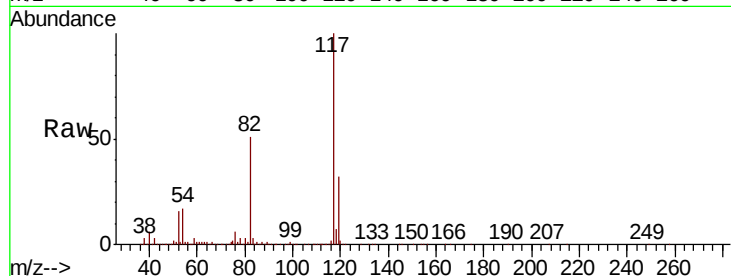




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX006679.D
Acq: 20 Dec 2018 16:41

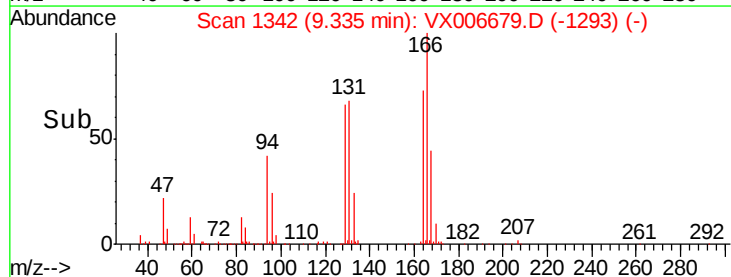
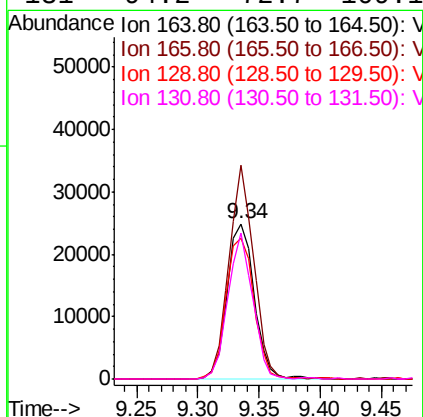
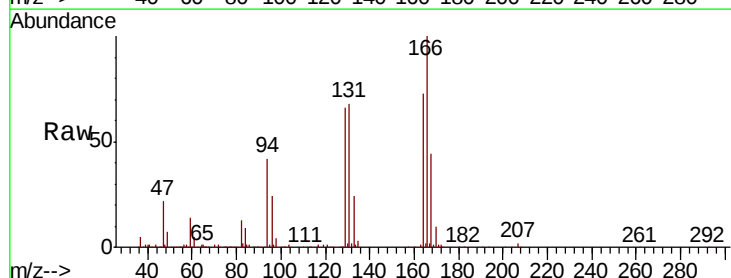
Instrument :
MSVOA_X
ClientSampled :

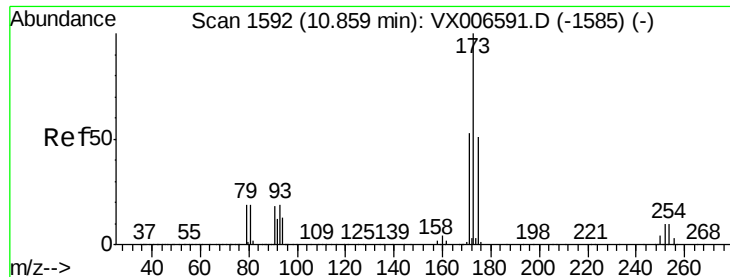
Tot Ion:117 Resp: 900531
Ion Ratio Lower Upper
117 100
82 50.9 41.0 61.6
119 32.0 25.4 38.0



#64
Tetrachloroethene
Concen: 5.380 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX006679.D
Acq: 20 Dec 2018 16:41

Tgt Ion:164 Resp: 38361
Ion Ratio Lower Upper
164 100
166 137.5 102.5 153.7
129 91.1 75.1 112.7
131 94.2 72.7 109.1





#71

Bromoform

Concen: 4.477 ug/l

RT: 10.96 min Scan# 1609

Delta R.T. 0.10 min

Lab File: VX006679.D

Acq: 20 Dec 2018 16:41

Instrument :

MSVOA_X

ClientSampled :

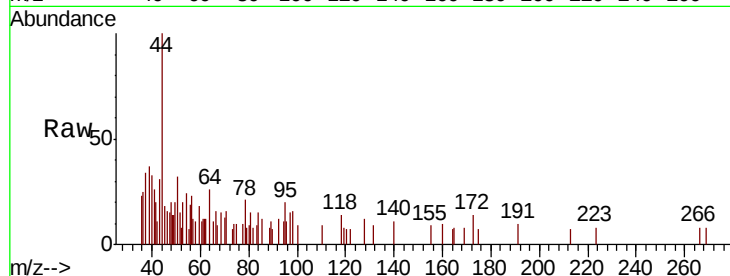
Tot Ion:173 Resp: 99

Ion Ratio Lower Upper

173 100

175 0.0 24.7 74.1#

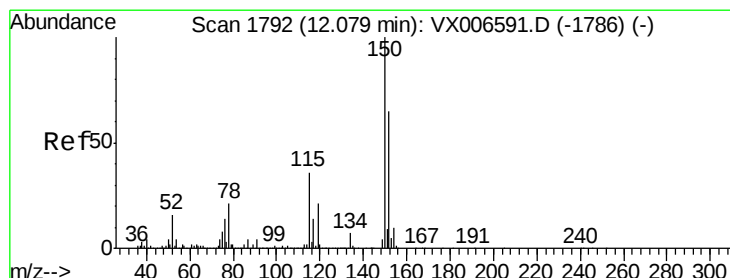
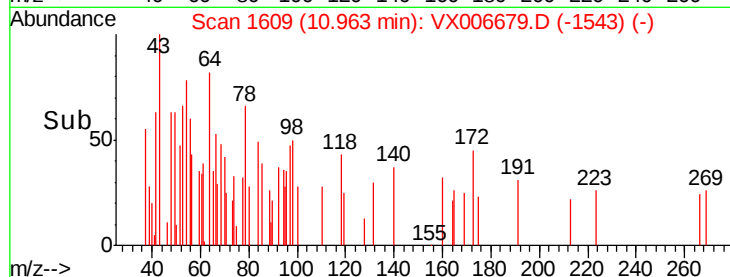
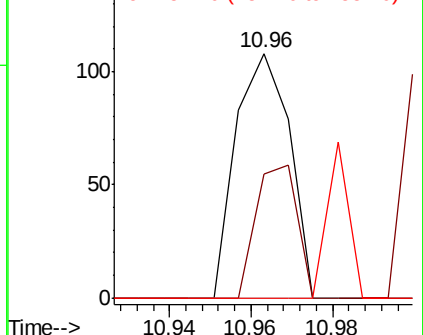
254 25.3 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): 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: VX006679.D

Acq: 20 Dec 2018 16:41

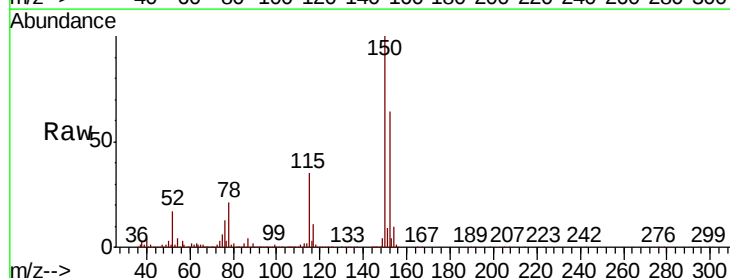
Tgt Ion:152 Resp: 429394

Ion Ratio Lower Upper

152 100

115 56.8 39.1 117.2

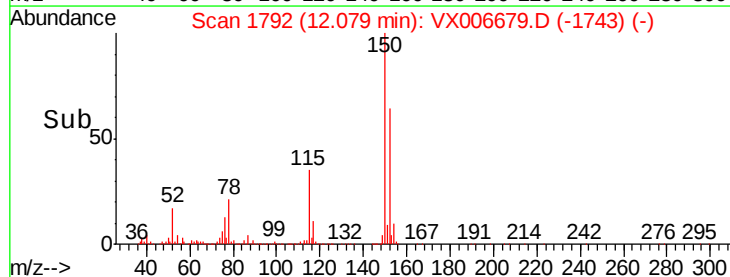
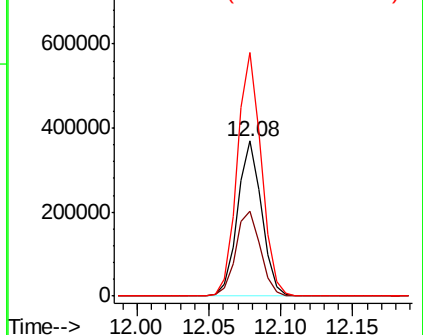
150 157.3 0.0 344.8

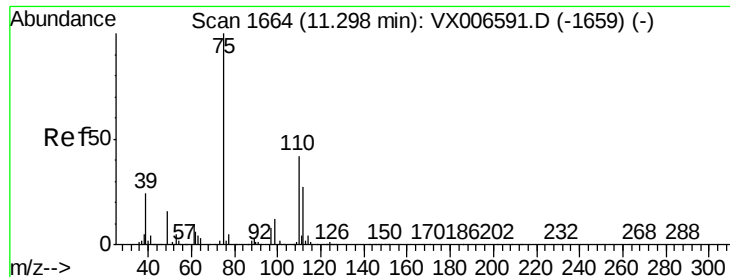


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.378 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006679.D

Acq: 20 Dec 2018 16:41

Instrument :

MSVOA_X

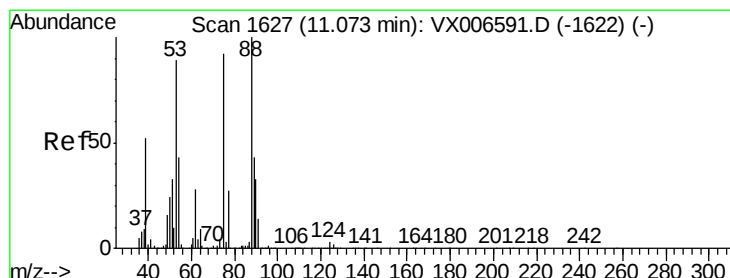
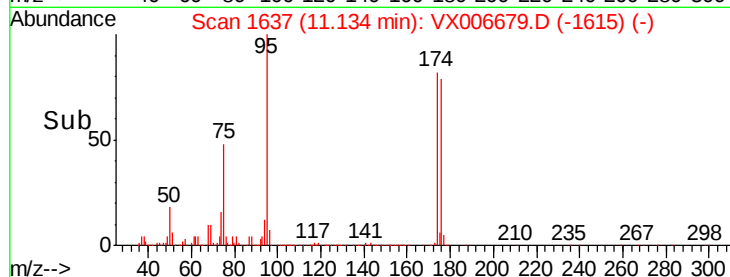
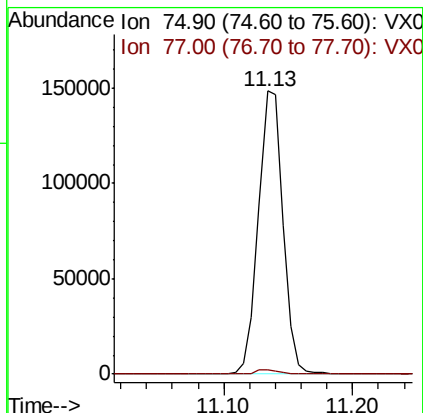
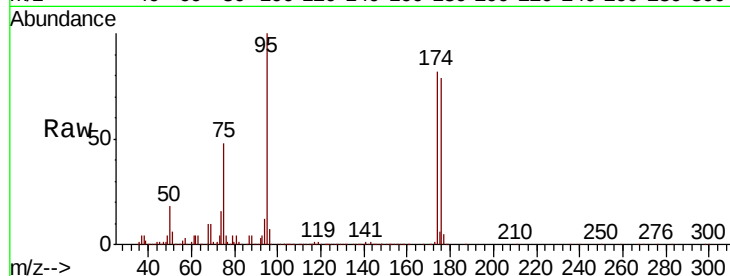
ClientSampleId :

Tot Ion: 75 Resp: 194535

Ion Ratio Lower Upper

75 100

77 1.5 18.5 55.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 72.142 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006679.D

Acq: 20 Dec 2018 16:41

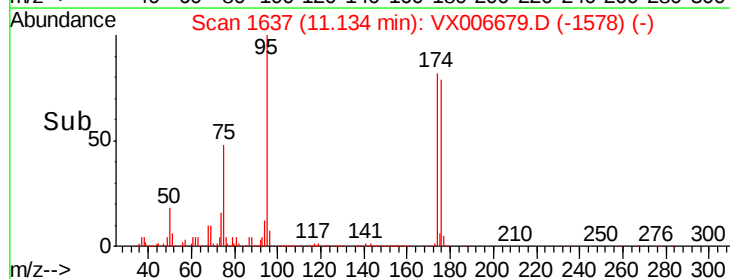
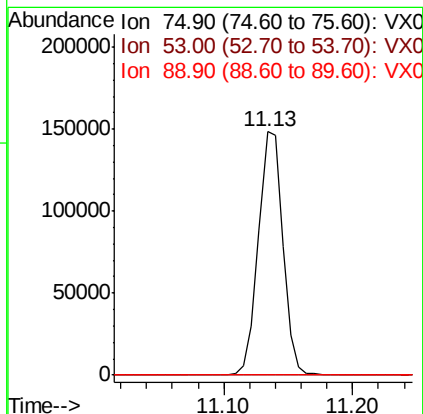
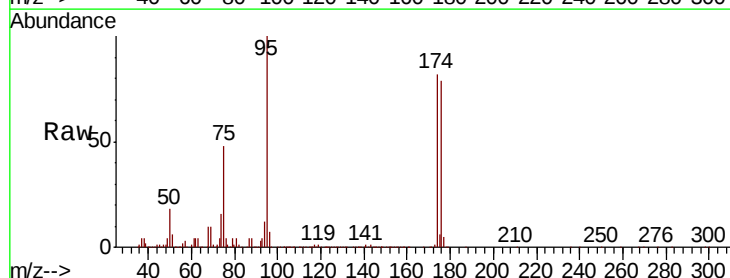
Tgt Ion: 75 Resp: 194535

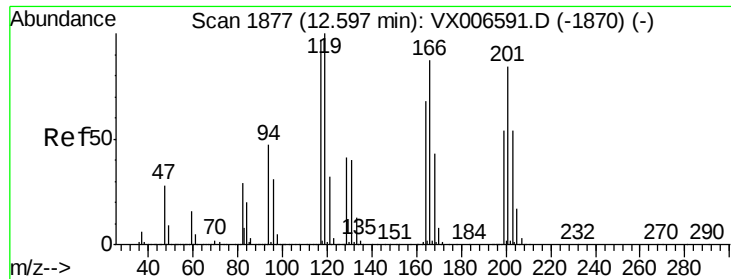
Ion Ratio Lower Upper

75 100

53 0.1 79.7 119.5#

89 0.1 38.0 57.0#





#90

Hexachloroethane

Concen: 3.304 ug/l

RT: 12.52 min Scan# 1864

Delta R.T. -0.08 min

Lab File: VX006679.D

Acq: 20 Dec 2018 16:41

Instrument :

MSVOA_X

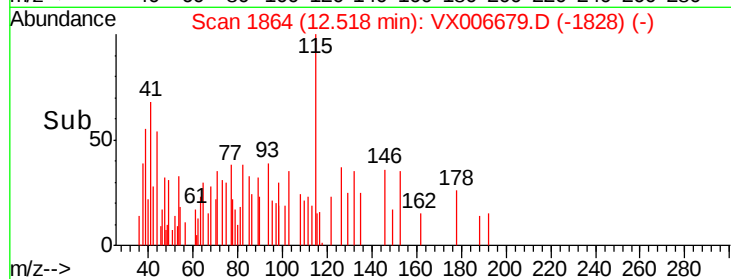
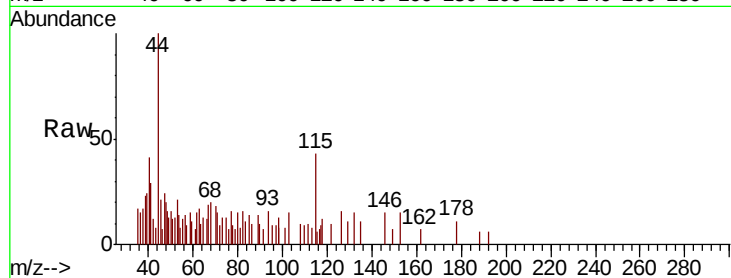
ClientSampleId :

Tot Ion:117 Resp: 49

Ion Ratio Lower Upper

117 100

201 61.2 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

