

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122218\
 Data File : VX006763.D
 Acq On : 22 Dec 2018 11:08
 Operator : JC/MD
 Sample : VX1222WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 24 04:19:58 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	711198	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1078616	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	982841	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	461478	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	365811	47.72	ug/l	0.00
Spiked Amount			Recovery	=	95.44%	
35) Dibromofluoromethane	5.51	113	327789	48.06	ug/l	0.00
Spiked Amount			Recovery	=	96.12%	
50) Toluene-d8	8.71	98	1272937	49.50	ug/l	0.00
Spiked Amount			Recovery	=	99.00%	
62) 4-Bromofluorobenzene	11.13	95	443062	47.04	ug/l	0.00
Spiked Amount			Recovery	=	94.08%	

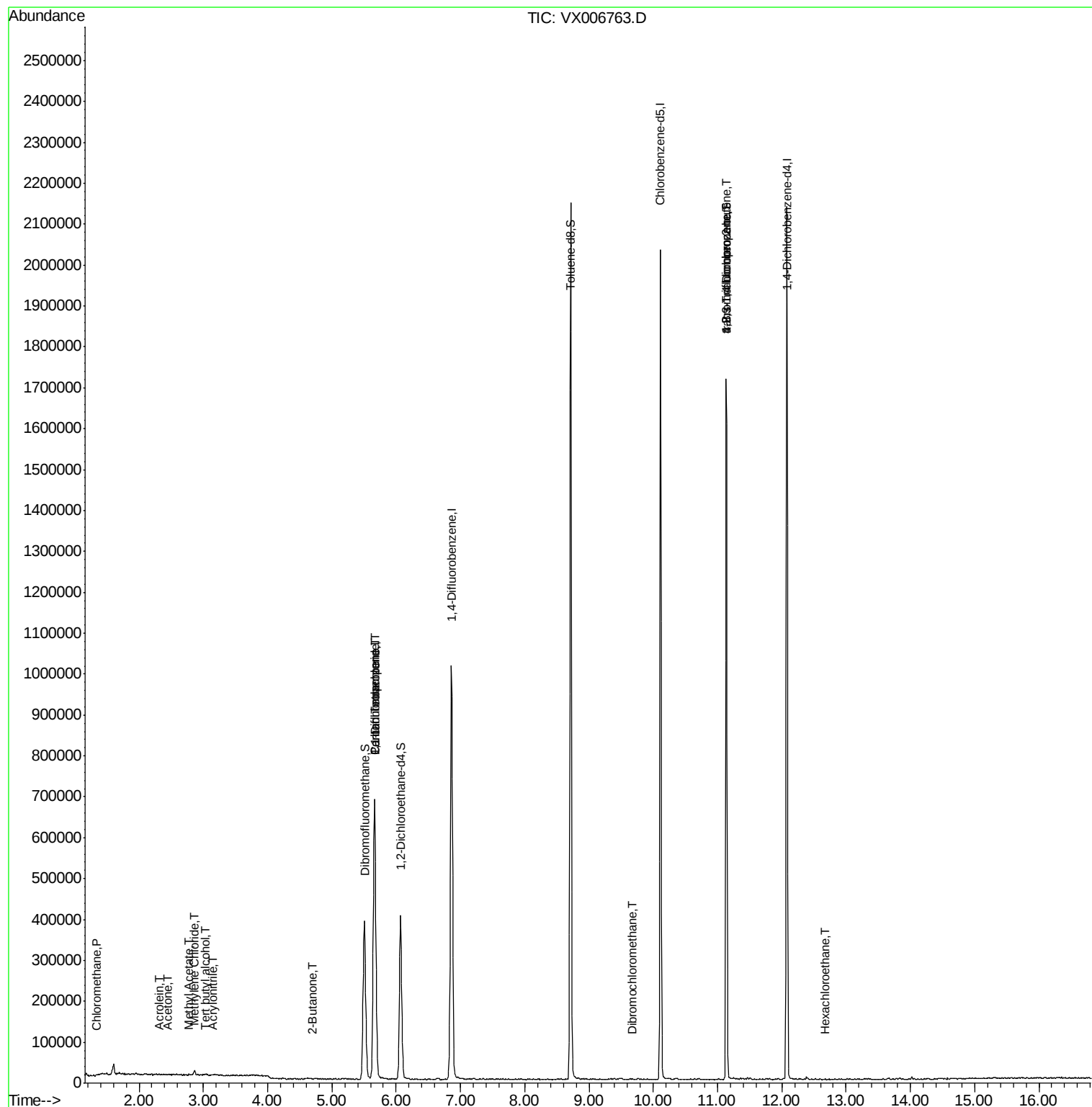
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.34	50	1464	0.209	ug/l #	79
5) Bromomethane	1.66	94	688	Below Cal	#	60
11) Tert butyl alcohol	3.04	59	1863	1.089	ug/l	95
13) Acrolein	2.32	56	349	0.302	ug/l #	1
15) Acrylonitrile	3.15	53	919	0.242	ug/l #	79
16) Acetone	2.44	43	1083	0.308	ug/l #	81
18) Methyl Acetate	2.77	43	2579	0.249	ug/l	98
20) Methylene Chloride	2.86	84	5497	0.755	ug/l #	79
25) 2-Butanone	4.70	43	1087	0.219	ug/l #	31
28) Bromochloromethane	5.03	49	368	Below Cal	#	4
36) 1,1-Dichloropropene	5.67	75	45567	5.101	ug/l #	48
38) Carbon Tetrachloride	5.67	117	65648	7.561	ug/l #	14
49) 1,4-Dioxane	7.76	88	705	Below Cal	#	71
60) Dibromochloromethane	9.68	129	85	2.335	ug/l	96
76) 1,2,3-Trichloropropane	11.13	75	207892	24.241	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	207892	71.759	ug/l #	10
90) Hexachloroethane	12.67	117	42	3.302	ug/l #	6

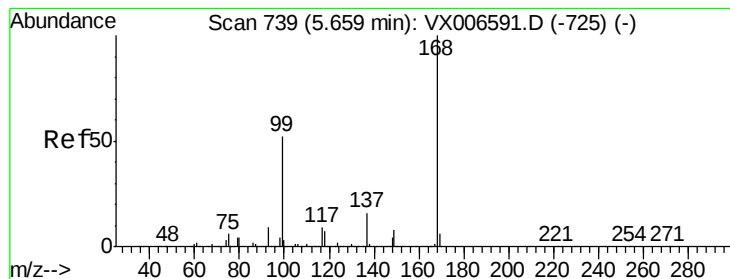
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX006763.D

Acq: 22 Dec 2018 11:08

Instrument :

MSVOA_X

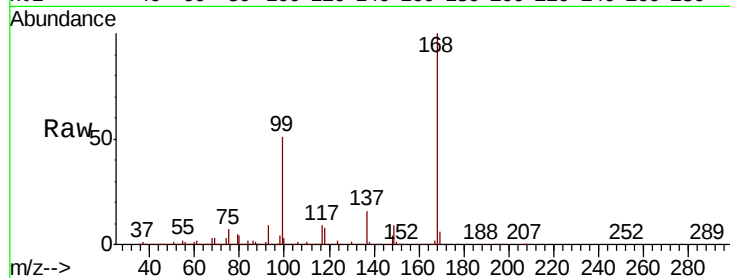
ClientSampled :

Tot Ion:168 Resp: 711198

Ion Ratio Lower Upper

168 100

99 51.0 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

150000

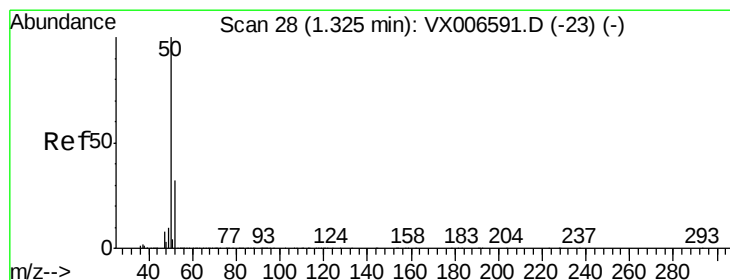
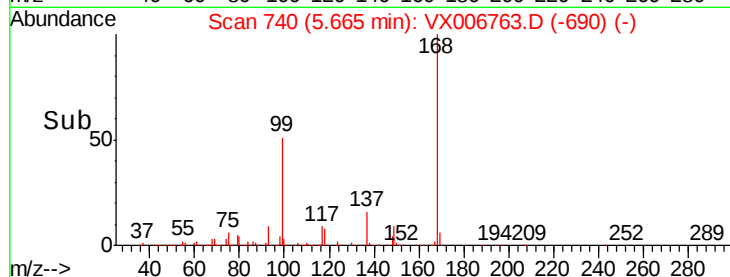
100000

50000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#3

Chloromethane

Concen: 0.209 ug/l

RT: 1.34 min Scan# 30

Delta R.T. 0.01 min

Lab File: VX006763.D

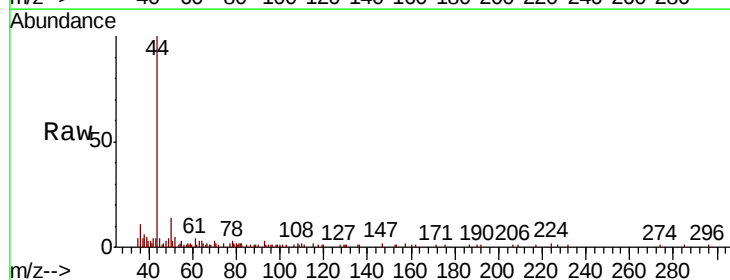
Acq: 22 Dec 2018 11:08

Tgt Ion: 50 Resp: 1464

Ion Ratio Lower Upper

50 100

52 20.2 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.34

1000

800

600

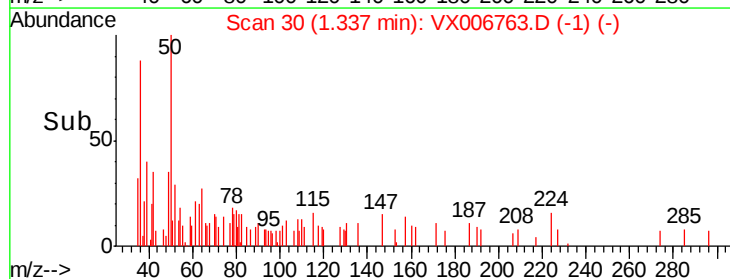
400

200

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 83

Delta R.T. 0.02 min

Lab File: VX006763.D

Acq: 22 Dec 2018 11:08

Instrument :

MSVOA_X

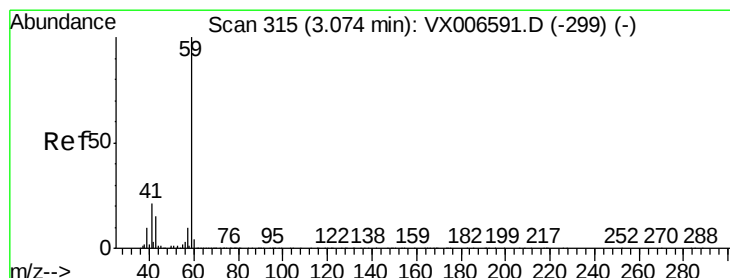
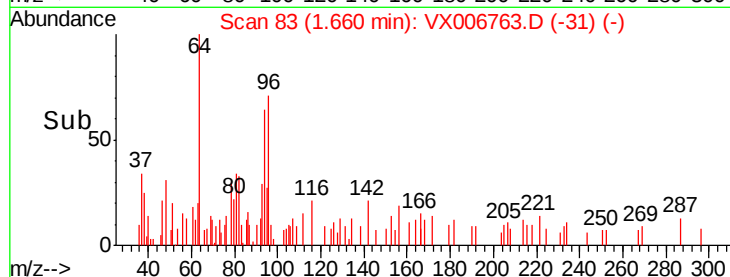
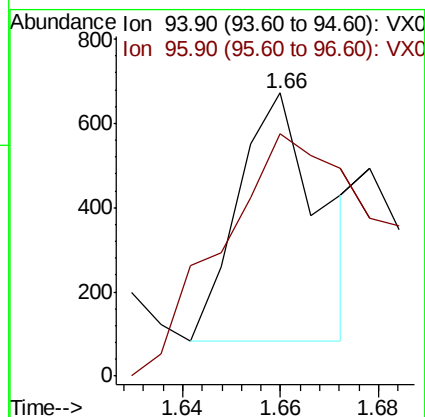
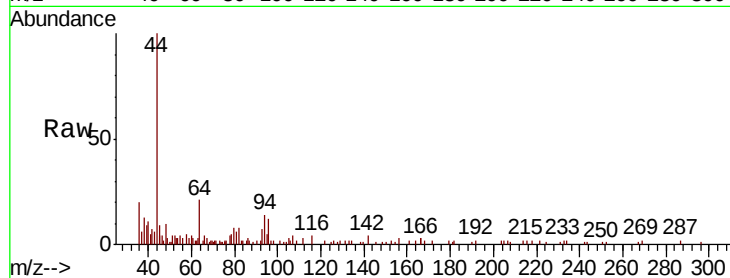
ClientSampleId :

Tot Ion: 94 Resp: 688

Ion Ratio Lower Upper

94 100

96 53.4 73.4 110.2#



#11

Tert butyl alcohol

Concen: 1.089 ug/l

RT: 3.04 min Scan# 309

Delta R.T. -0.04 min

Lab File: VX006763.D

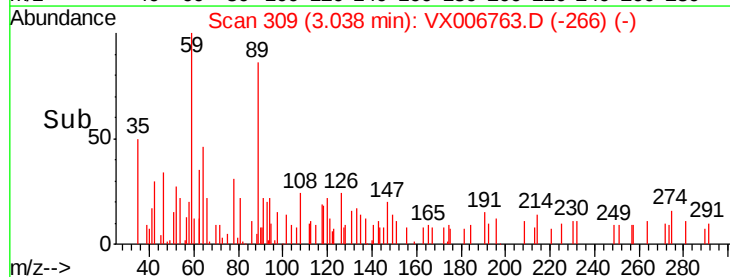
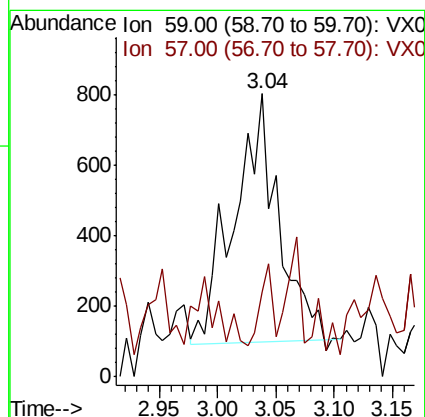
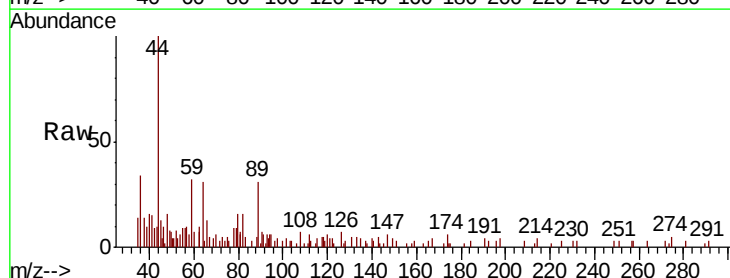
Acq: 22 Dec 2018 11:08

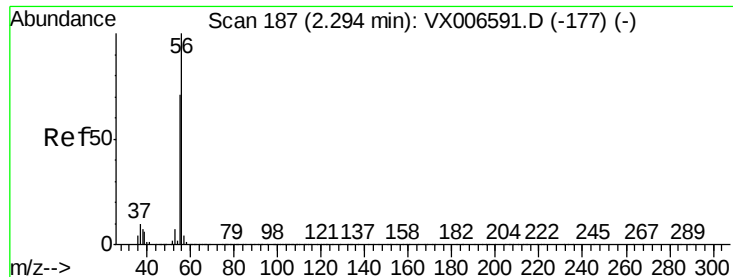
Tgt Ion: 59 Resp: 1863

Ion Ratio Lower Upper

59 100

57 8.7 8.5 12.7





#13

Acrolein

Concen: 0.302 ug/l

RT: 2.32 min Scan# 191

Delta R.T. 0.02 min

Lab File: VX006763.D

Acq: 22 Dec 2018 11:08

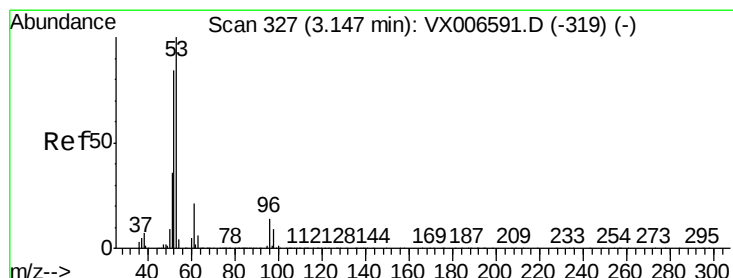
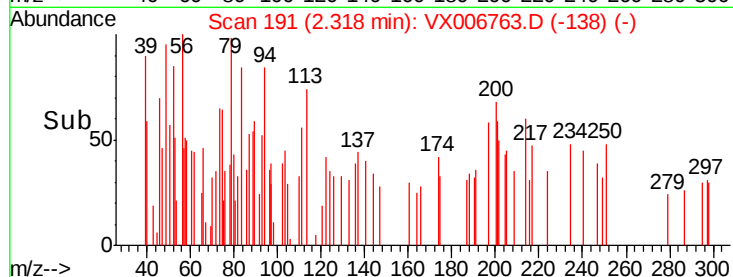
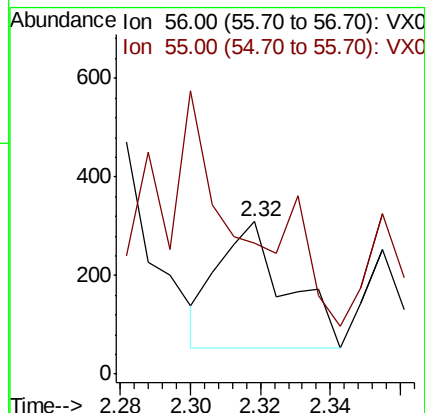
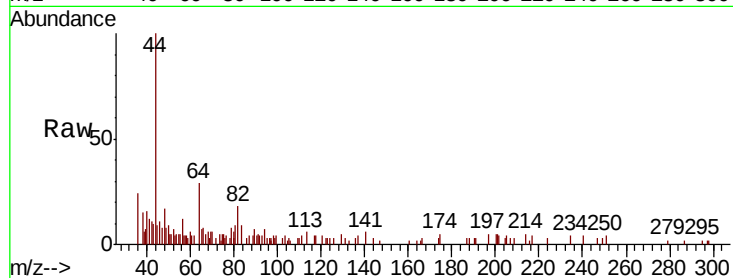
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 349

Ion Ratio Lower Upper

56 100

55 214.6 58.2 87.4#



#15

Acrylonitrile

Concen: 0.242 ug/l

RT: 3.15 min Scan# 327

Delta R.T. 0.00 min

Lab File: VX006763.D

Acq: 22 Dec 2018 11:08

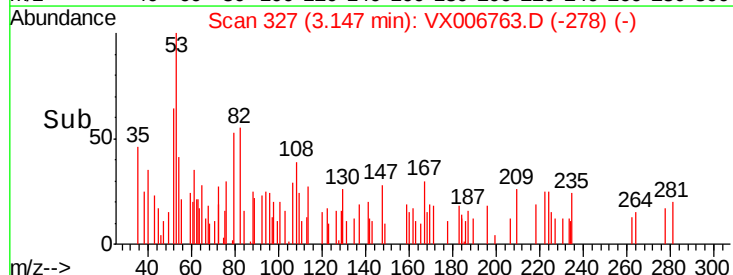
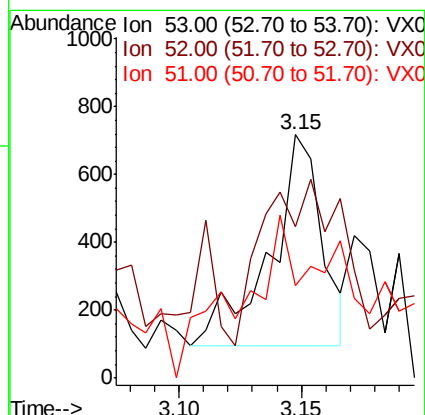
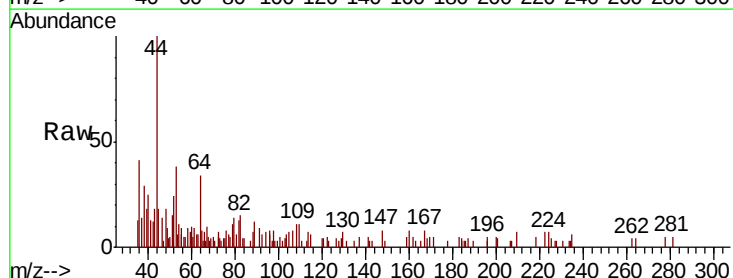
Tgt Ion: 53 Resp: 919

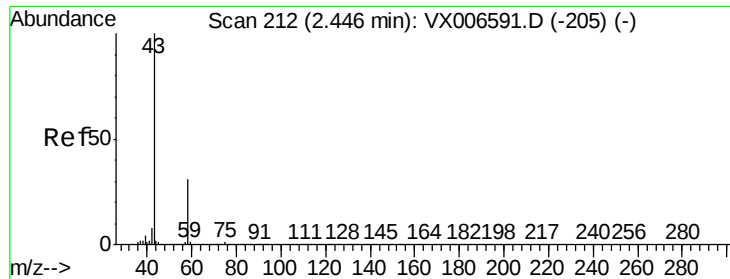
Ion Ratio Lower Upper

53 100

52 57.7 66.0 99.0#

51 33.1 28.6 42.8





#16

Acetone

Concen: 0.308 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX006763.D

Acq: 22 Dec 2018 11:08

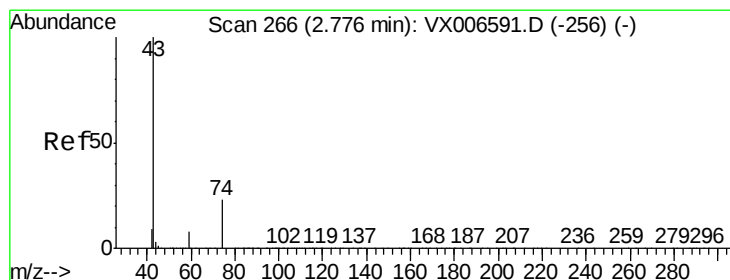
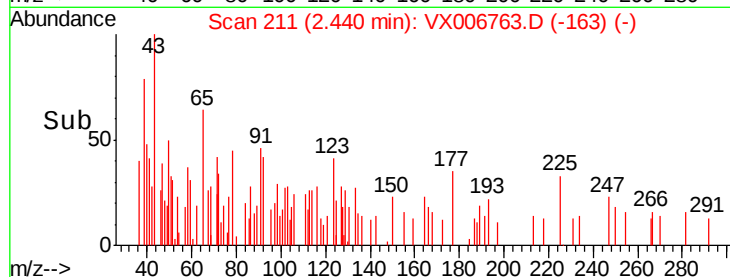
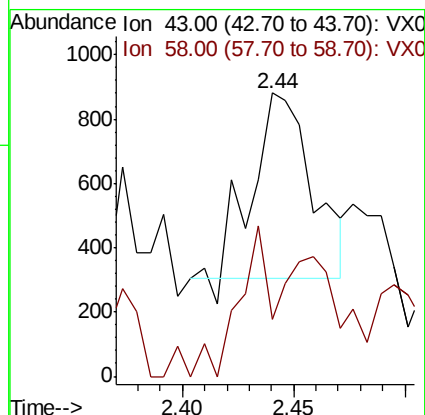
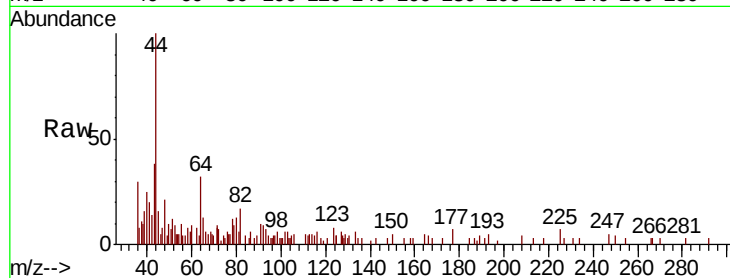
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 1083

Ion Ratio Lower Upper

43 100

58 20.8 25.0 37.6#



#18

Methyl Acetate

Concen: 0.249 ug/l

RT: 2.77 min Scan# 265

Delta R.T. -0.01 min

Lab File: VX006763.D

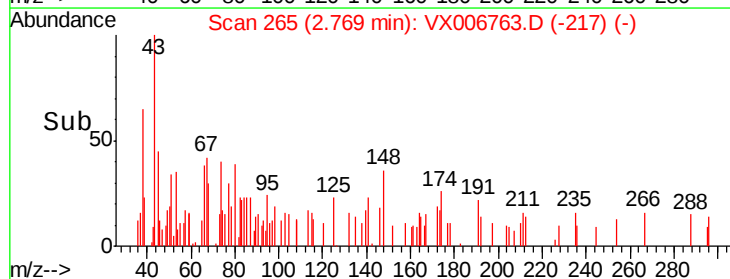
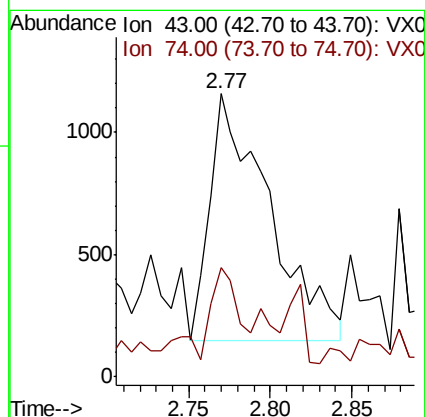
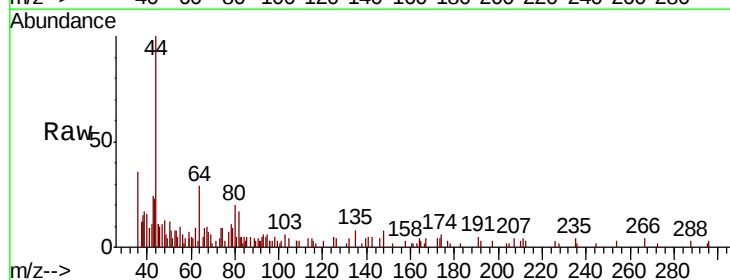
Acq: 22 Dec 2018 11:08

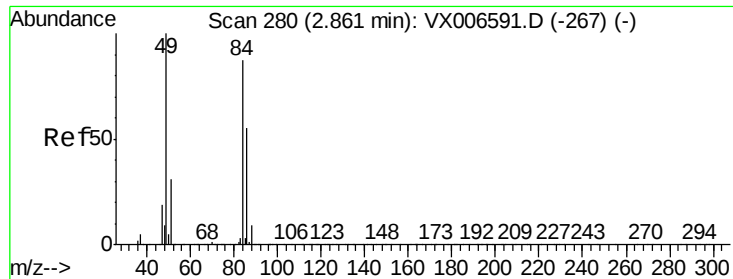
Tgt Ion: 43 Resp: 2579

Ion Ratio Lower Upper

43 100

74 22.3 18.6 28.0

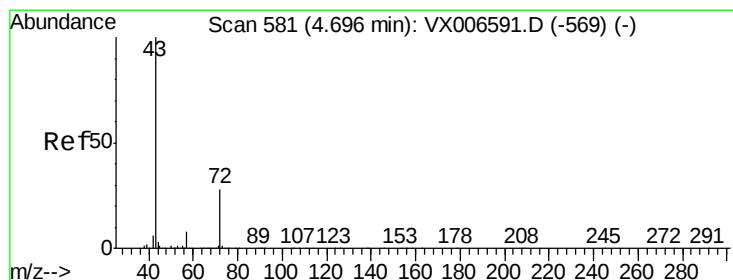
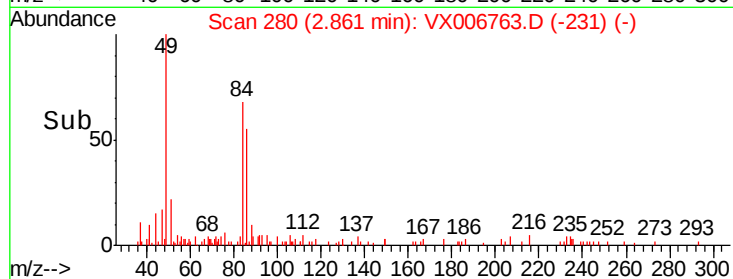
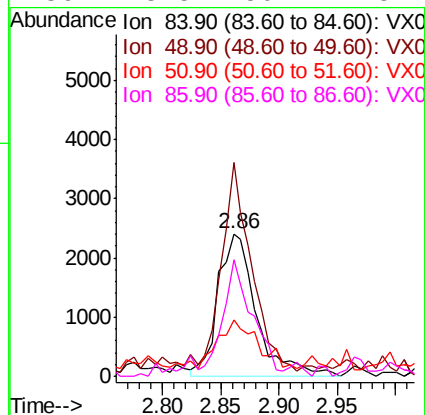
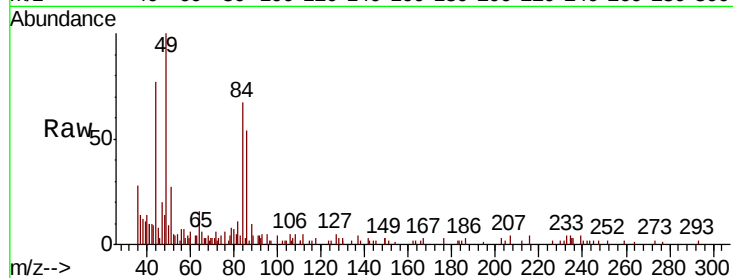




#20
Methvlene Chloride
Concen: 0.755 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX006763.D
Acq: 22 Dec 2018 11:08

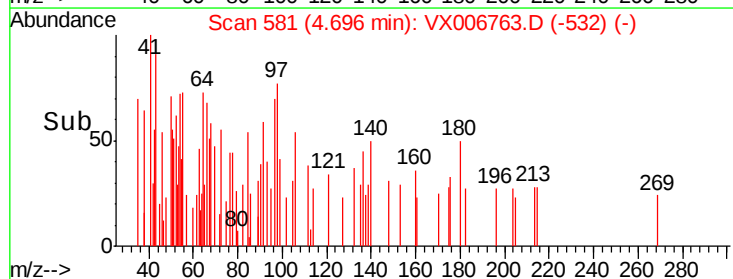
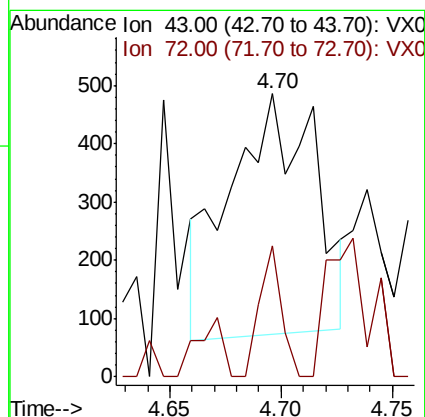
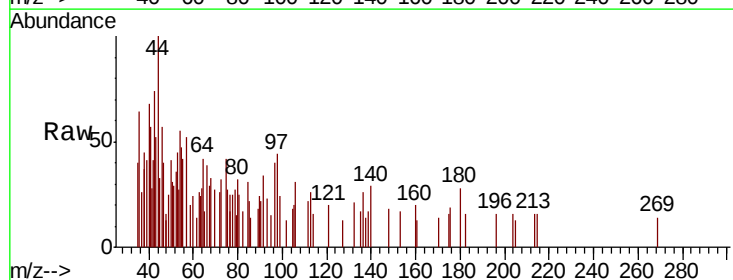
Instrument :
MSVOA_X
ClientSampleId :

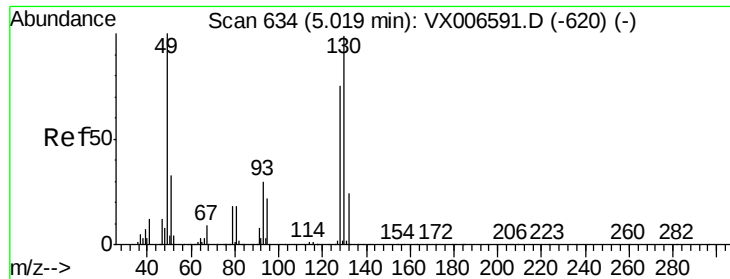
Tot Ion:	84	Resp:	5497
Ion	Ratio	Lower	Upper
84	100		
49	142.1	91.8	137.6#
51	32.5	28.5	42.7
86	78.5	50.2	75.2#



#25
2-Butanone
Concen: 0.219 ug/l
RT: 4.70 min Scan# 581
Delta R.T. 0.00 min
Lab File: VX006763.D
Acq: 22 Dec 2018 11:08

Tgt Ion:	43	Resp:	1087
Ion	Ratio	Lower	Upper
43	100		
72	64.1	22.4	33.6#





#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 636

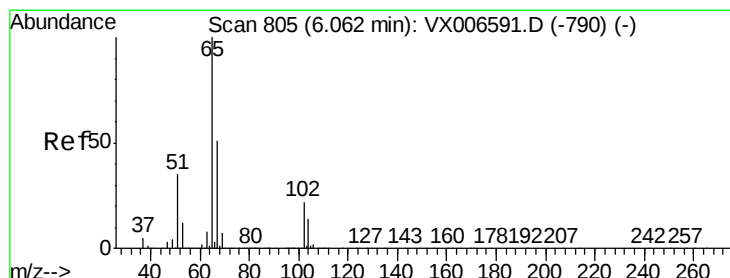
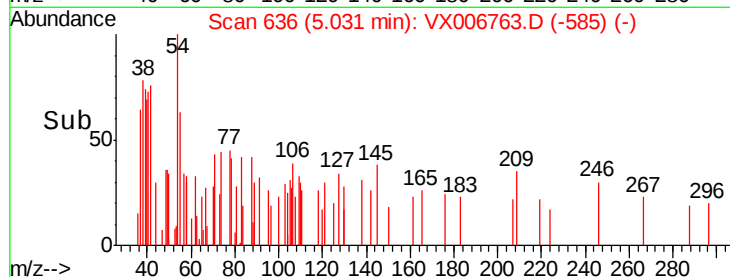
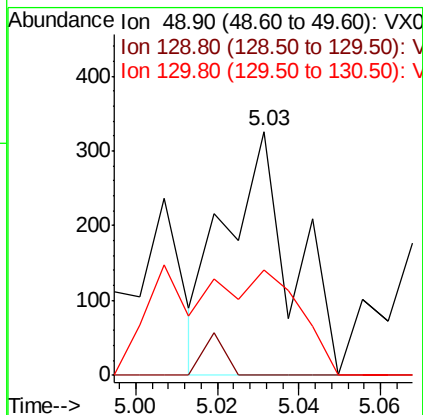
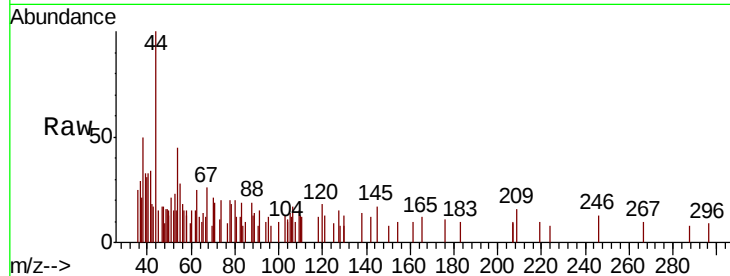
Delta R.T. 0.01 min

Lab File: VX006763.D

Acq: 22 Dec 2018 11:08

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 49 Resp: 368
Ion Ratio Lower Upper
49 100
129 5.7 0.0 5.4#
130 0.0 77.7 116.5#



#33

1,2-Dichloroethane-d4

Concen: 47.725 ug/l

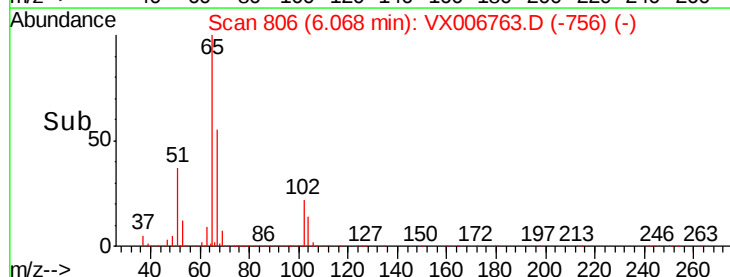
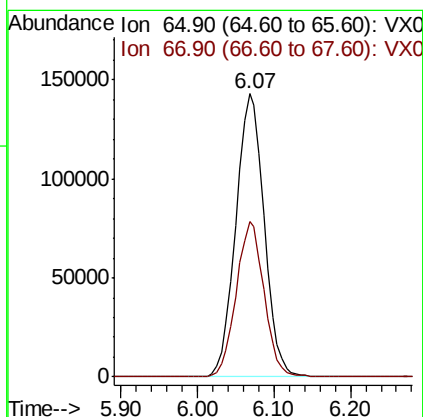
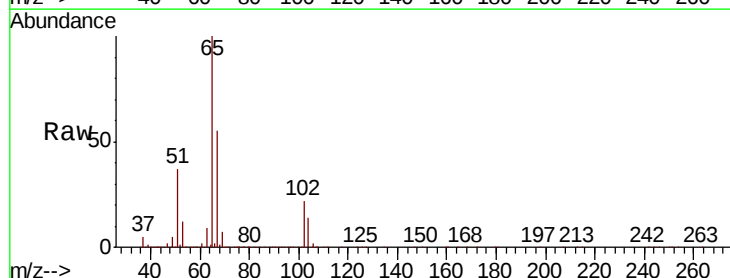
RT: 6.07 min Scan# 806

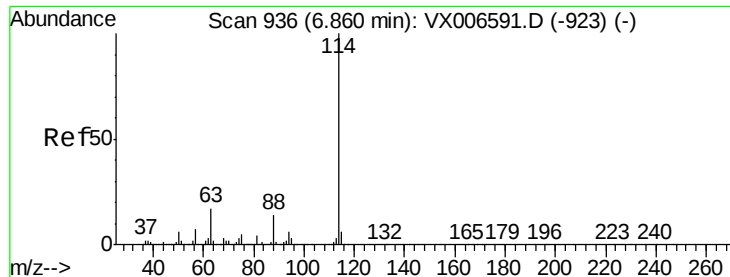
Delta R.T. 0.01 min

Lab File: VX006763.D

Acq: 22 Dec 2018 11:08

Tgt Ion: 65 Resp: 365811
Ion Ratio Lower Upper
65 100
67 54.2 0.0 105.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX006763.D

Acq: 22 Dec 2018 11:08

Instrument :

MSVOA_X

ClientSampleId :

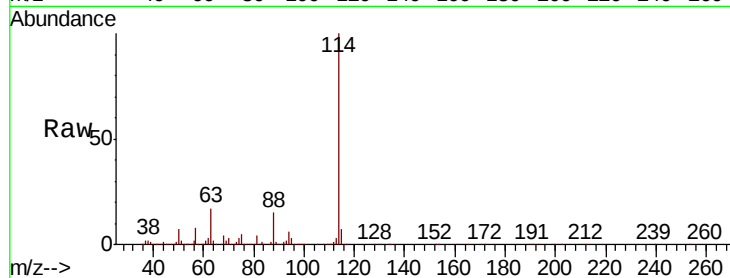
Tot Ion:114 Resp: 1078616

Ion Ratio Lower Upper

114 100

63 17.4 0.0 34.8

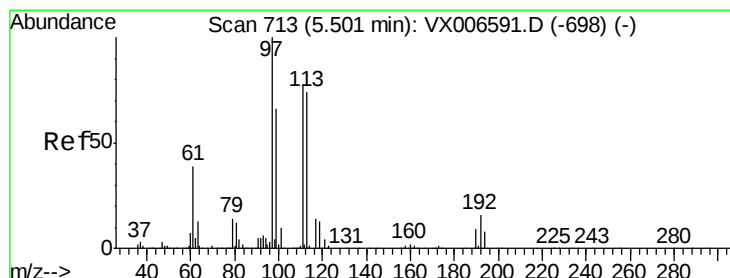
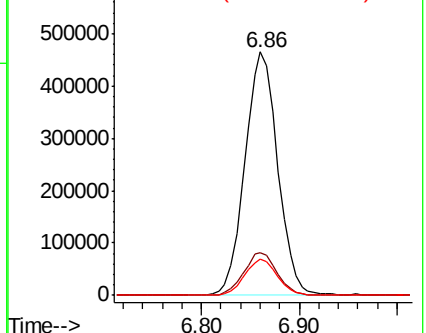
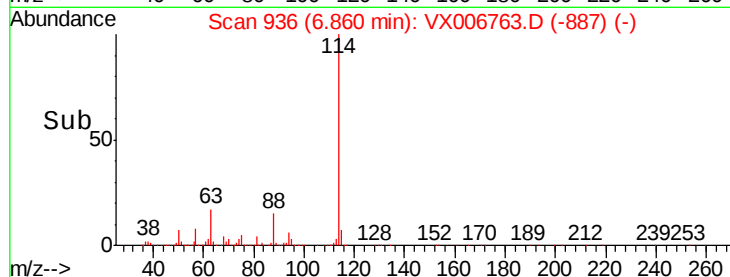
88 15.0 0.0 28.8



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: 48.056 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006763.D

Acq: 22 Dec 2018 11:08

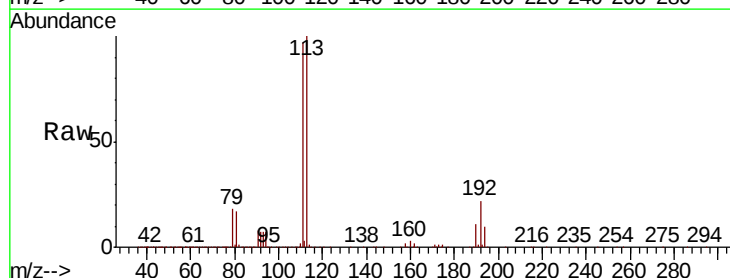
Tgt Ion:113 Resp: 327789

Ion Ratio Lower Upper

113 100

111 101.3 81.6 122.4

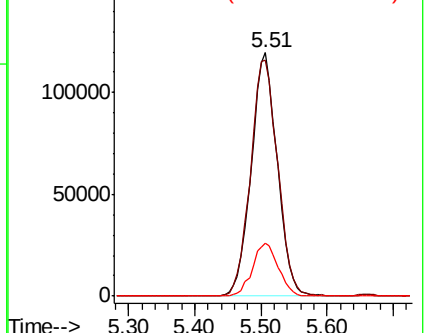
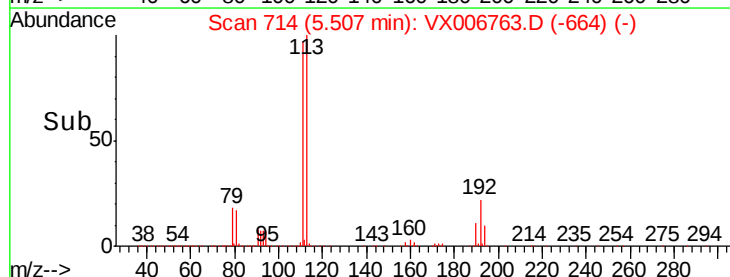
192 21.8 16.7 25.1

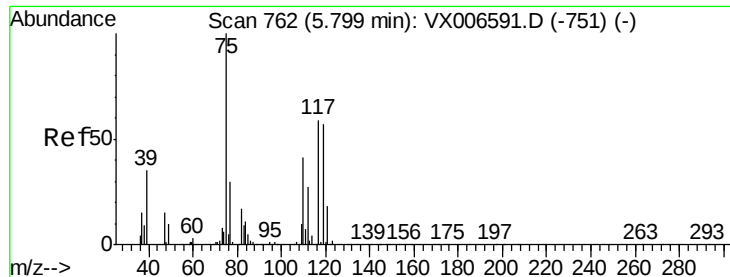


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.101 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006763.D

Acq: 22 Dec 2018 11:08

Instrument :

MSVOA_X

ClientSampleId :

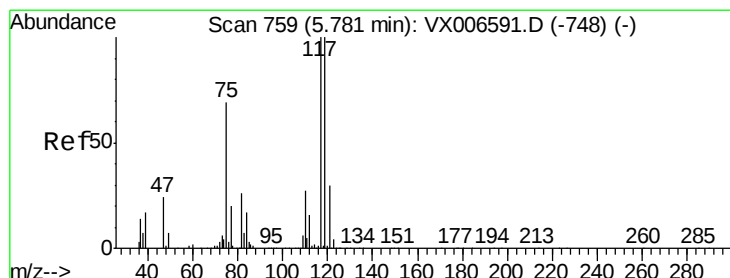
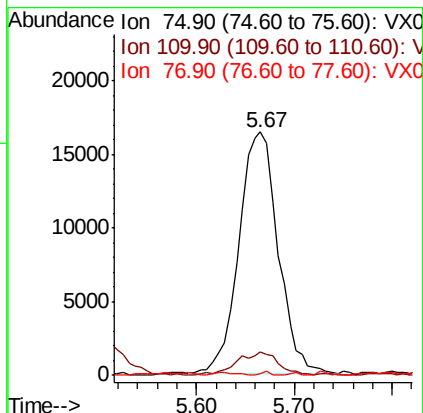
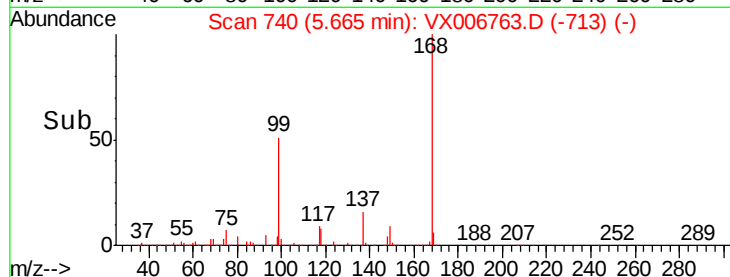
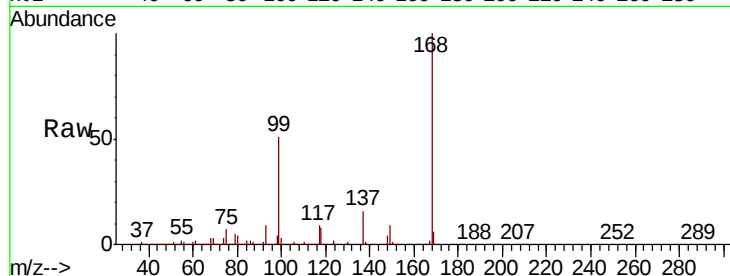
Tot Ion: 75 Resp: 45567

Ion Ratio Lower Upper

75 100

110 10.3 20.2 60.5#

77 0.4 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 7.561 ug/l

RT: 5.67 min Scan# 741

Delta R.T. -0.11 min

Lab File: VX006763.D

Acq: 22 Dec 2018 11:08

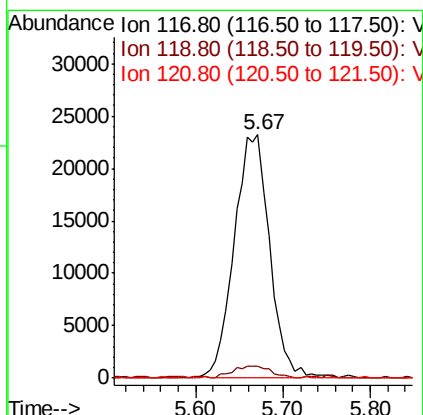
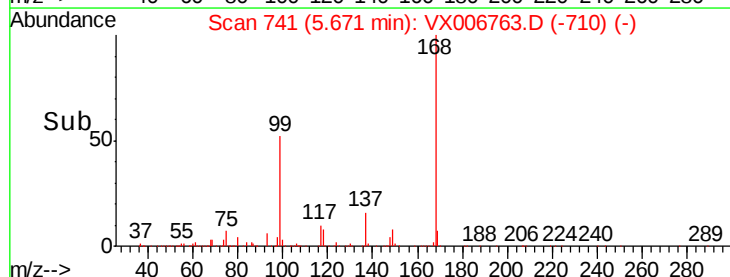
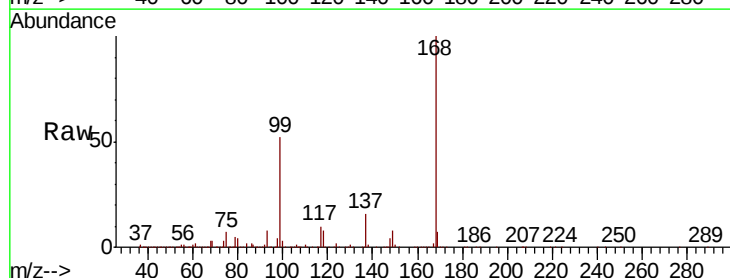
Tgt Ion: 117 Resp: 65648

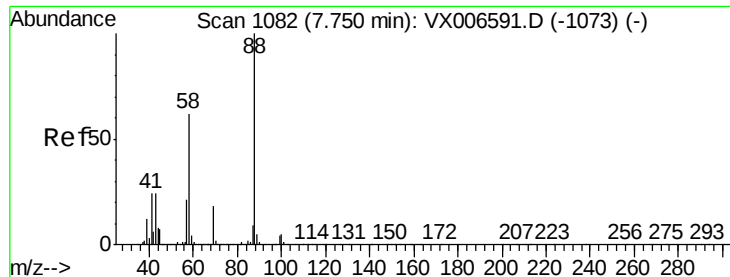
Ion Ratio Lower Upper

117 100

119 4.5 79.4 119.2#

121 0.0 24.0 36.0#

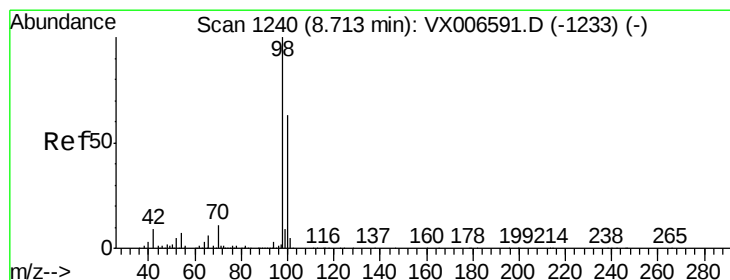
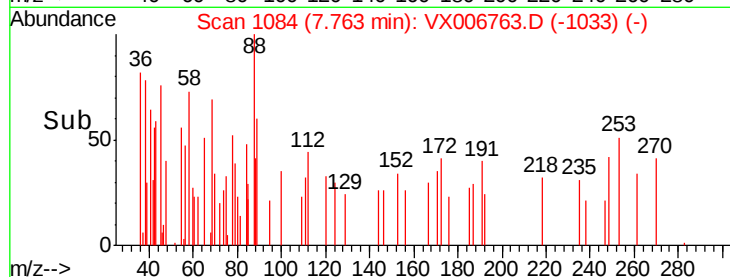
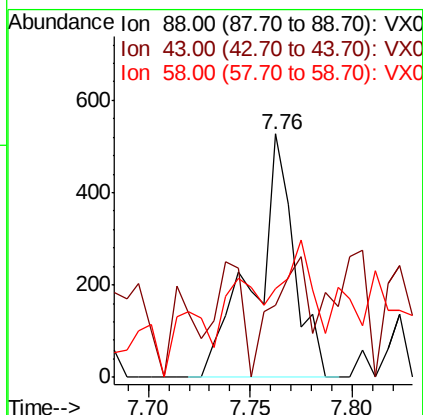
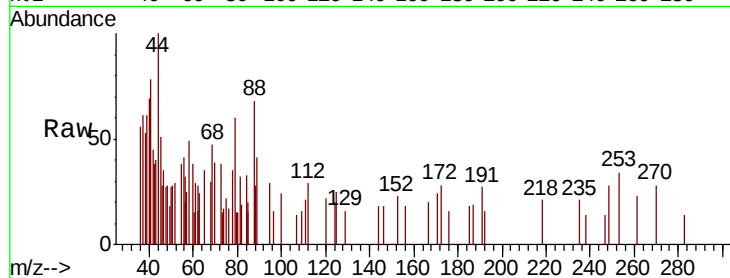




#49
1,4-Dioxane
Concen: Below Cal
RT: 7.76 min Scan# 1084
Delta R.T. 0.01 min
Lab File: VX006763.D
Acq: 22 Dec 2018 11:08

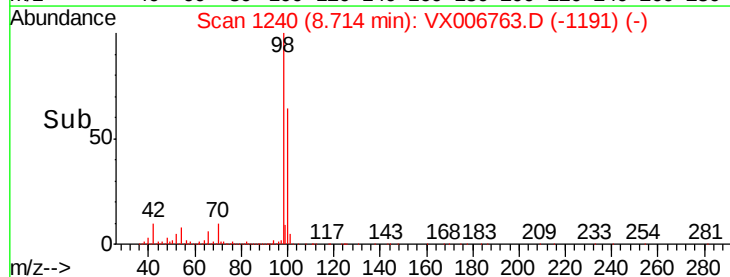
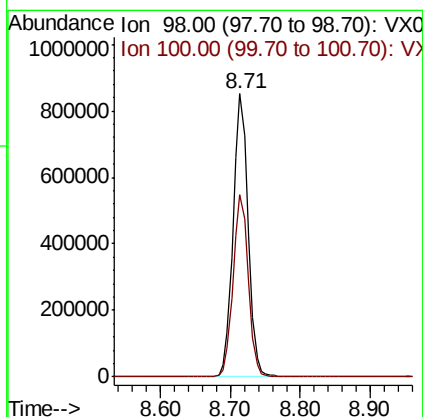
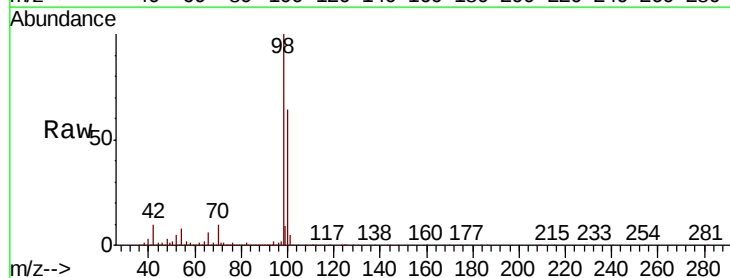
Instrument :
MSVOA_X
ClientSampleId :

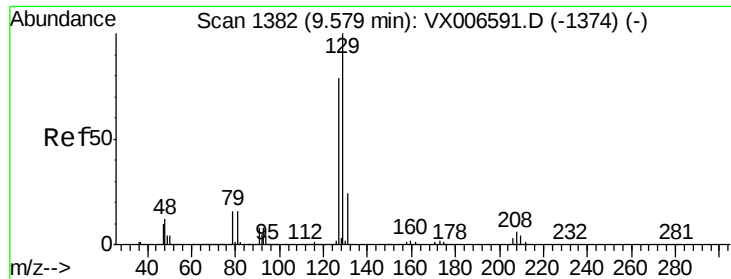
Tot Ion: 88 Resp: 705
Ion Ratio Lower Upper
88 100
43 45.1 22.2 33.4#
58 43.0 51.0 76.4#



#50
Toluene-d8
Concen: 49.501 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX006763.D
Acq: 22 Dec 2018 11:08

Tgt Ion: 98 Resp: 1272937
Ion Ratio Lower Upper
98 100
100 64.8 52.0 78.0





#60

Dibromochloromethane

Concen: 2.335 ug/l

RT: 9.68 min Scan# 1398

Delta R.T. 0.10 min

Lab File: VX006763.D

Acq: 22 Dec 2018 11:08

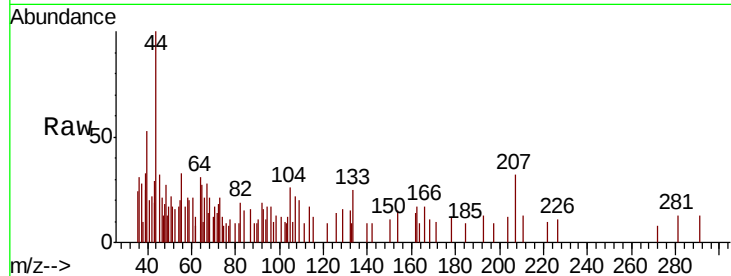
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:129 Resp: 85

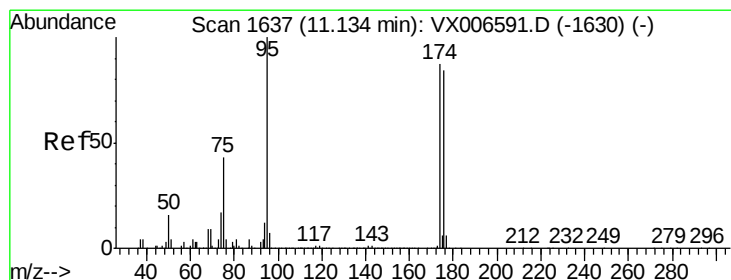
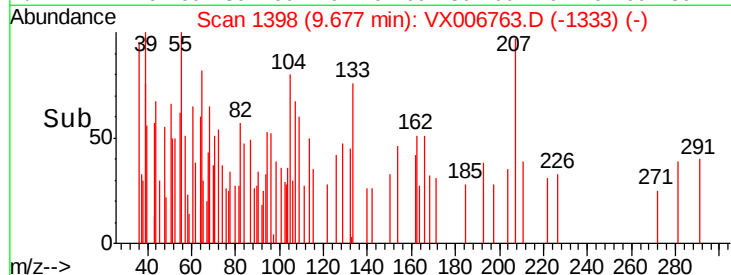
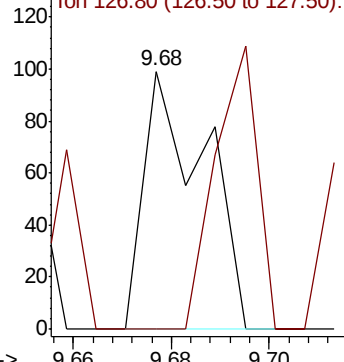
Ion Ratio Lower Upper

129 100

127 75.3 39.3 117.8



Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 47.044 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX006763.D

Acq: 22 Dec 2018 11:08

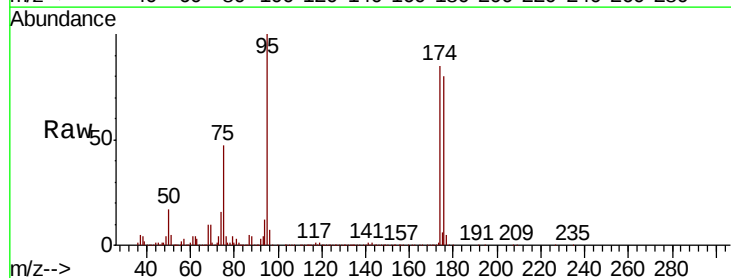
Tgt Ion: 95 Resp: 443062

Ion Ratio Lower Upper

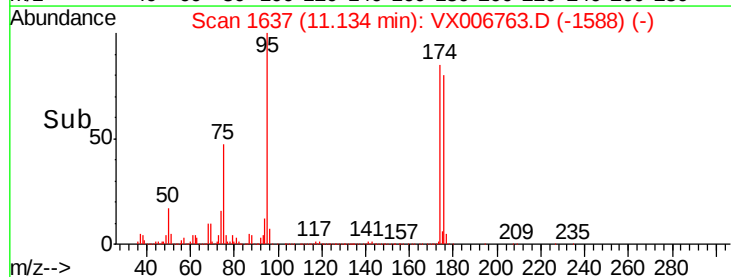
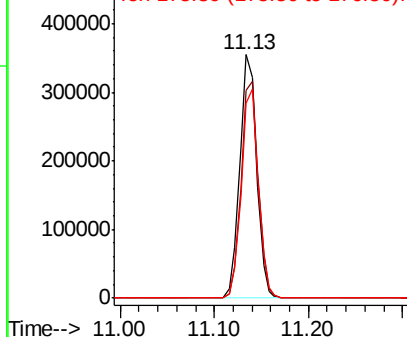
95 100

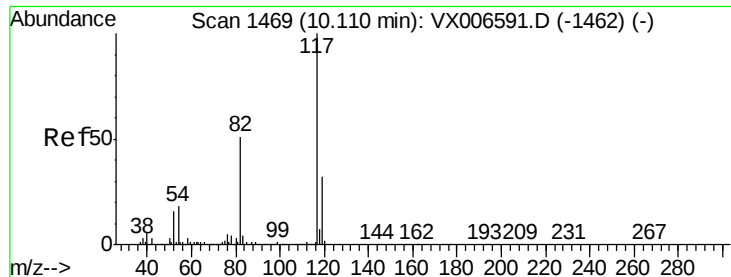
174 90.7 0.0 182.2

176 87.0 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

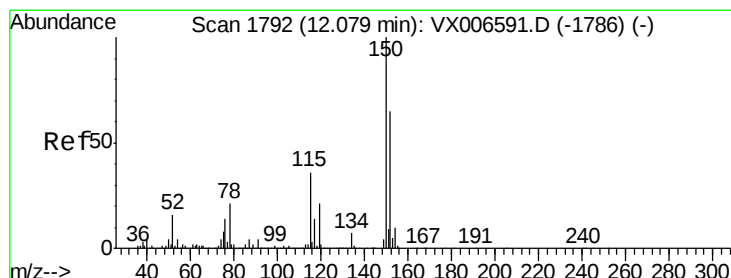
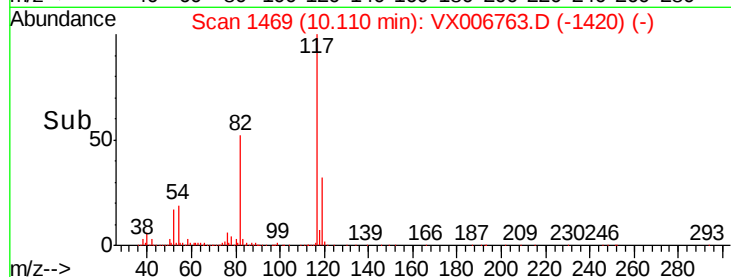
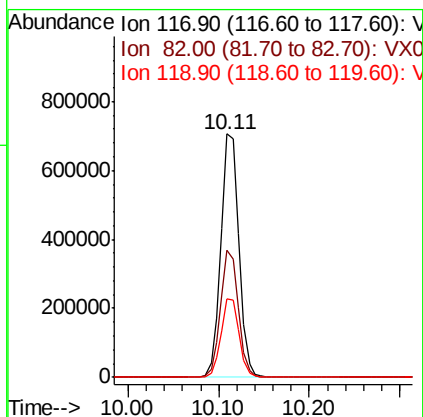
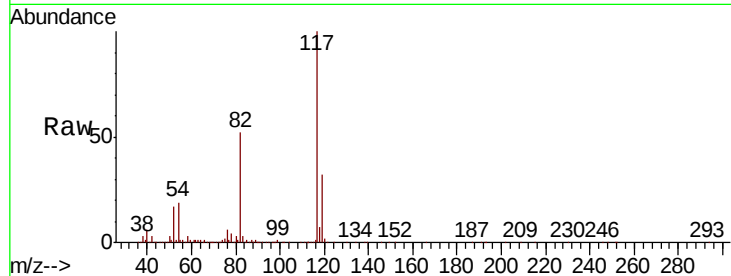




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX006763.D
Acq: 22 Dec 2018 11:08

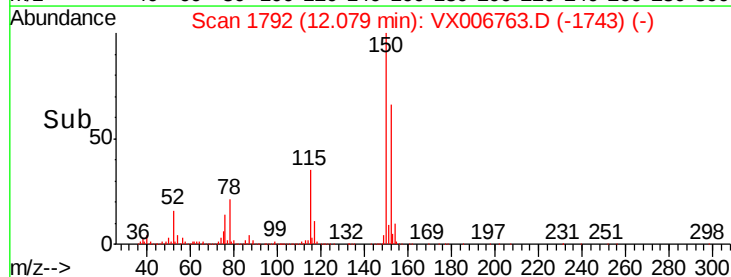
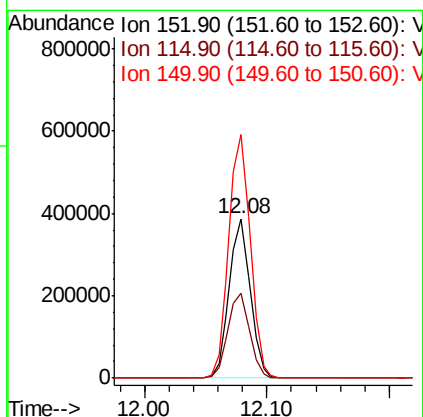
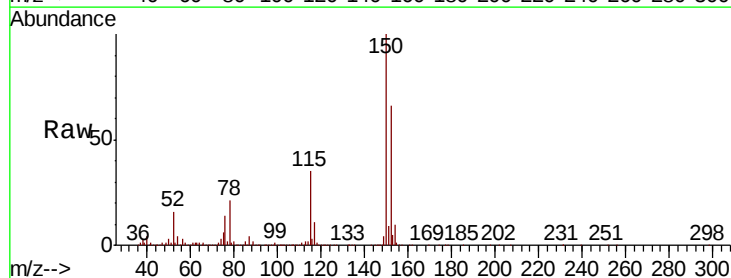
Instrument :
MSVOA_X
ClientSampleId :

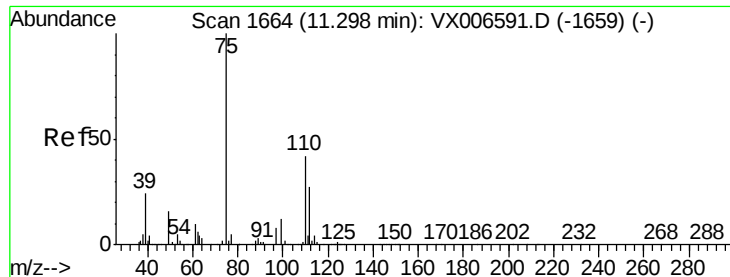
Tot Ion:117 Resp: 982841
Ion Ratio Lower Upper
117 100
82 52.2 41.0 61.6
119 32.1 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX006763.D
Acq: 22 Dec 2018 11:08

Tgt Ion:152 Resp: 461478
Ion Ratio Lower Upper
152 100
115 54.9 39.1 117.2
150 156.7 0.0 344.8

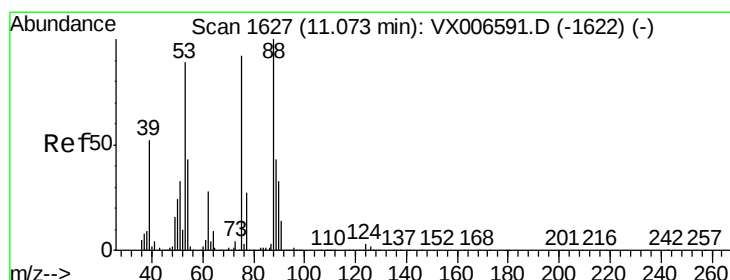
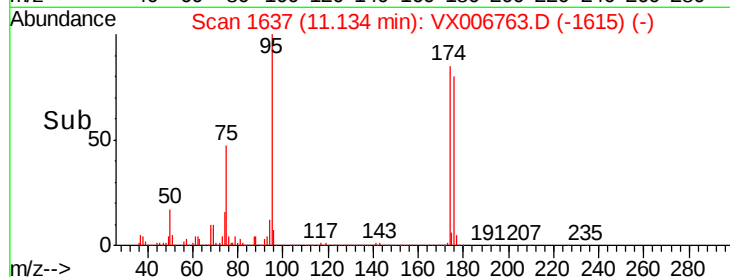
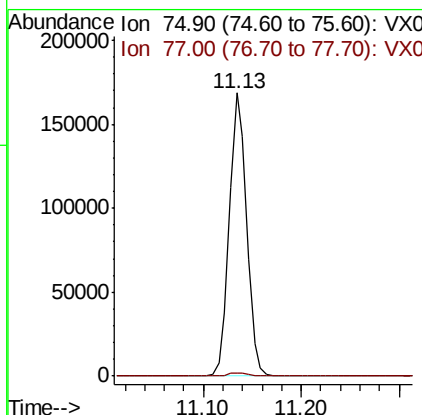
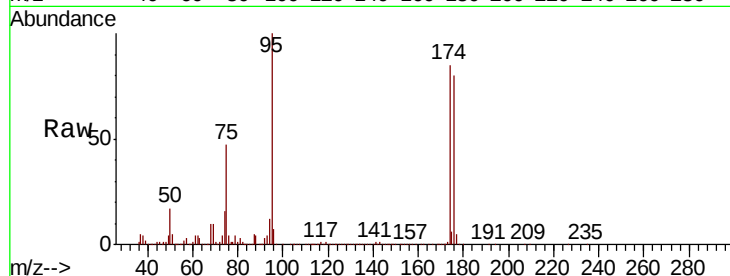




#76
 1,2,3-Trichloropropane
 Concen: 24.241 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX006763.D
 Acq: 22 Dec 2018 11:08

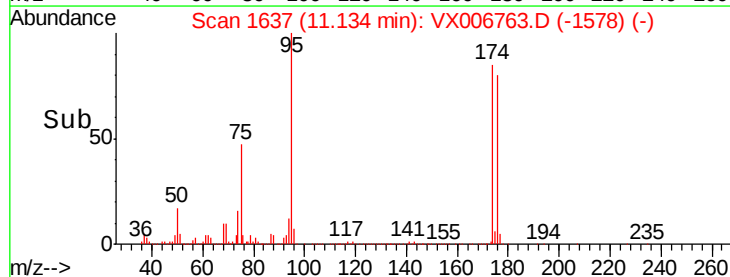
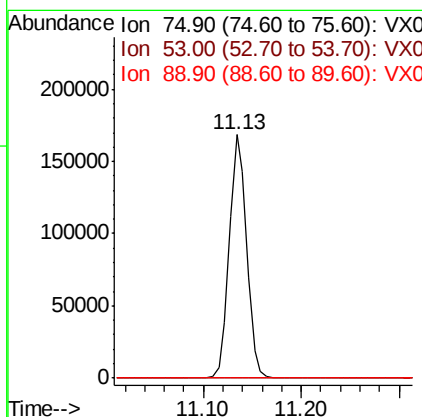
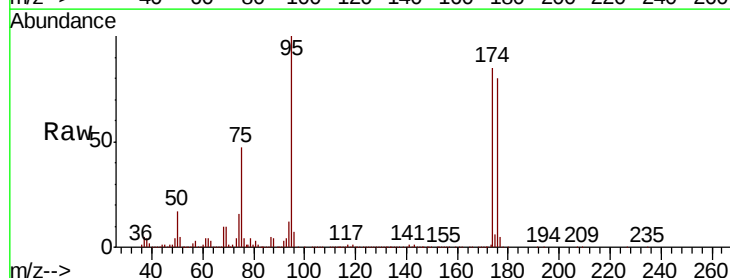
Instrument :
 MSVOA_X
 ClientSampleId :

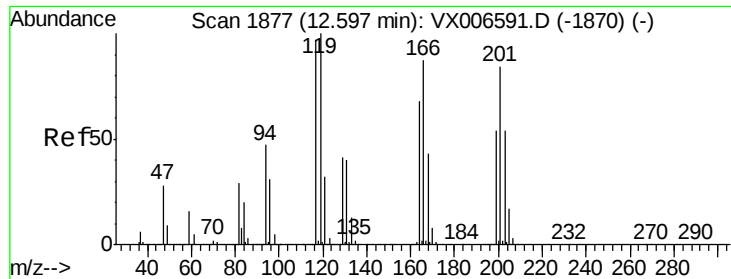
Tot Ion: 75 Resp: 207892
 Ion Ratio Lower Upper
 75 100
 77 1.5 18.5 55.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 71.759 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX006763.D
 Acq: 22 Dec 2018 11:08

Tgt Ion: 75 Resp: 207892
 Ion Ratio Lower Upper
 75 100
 53 0.3 79.7 119.5#
 89 0.1 38.0 57.0#





#90

Hexachloroethane

Concen: 3.302 ug/l

RT: 12.67 min Scan# 1889

Delta R.T. 0.07 min

Lab File: VX006763.D

Acq: 22 Dec 2018 11:08

Instrument :

MSVOA_X

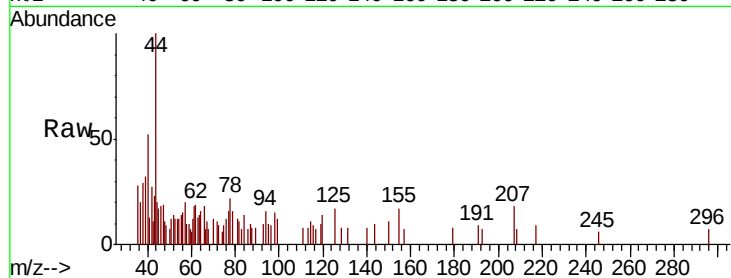
ClientSampleId :

Tot Ion:117 Resp: 42

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

