

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122718\
 Data File : VX006833.D
 Acq On : 27 Dec 2018 11:09
 Operator : JC/MD
 Sample : VX1227MBL01
 Misc : 5.00µ/10mL/100uL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 28 03:17:31 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	721930	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1066518	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	984588	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	490691	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	364063	46.79	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.58%	
35) Dibromofluoromethane	5.51	113	319546	47.38	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.76%	
50) Toluene-d8	8.71	98	1259164	49.52	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.04%	
62) 4-Bromofluorobenzene	11.13	95	454441	48.80	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.60%	

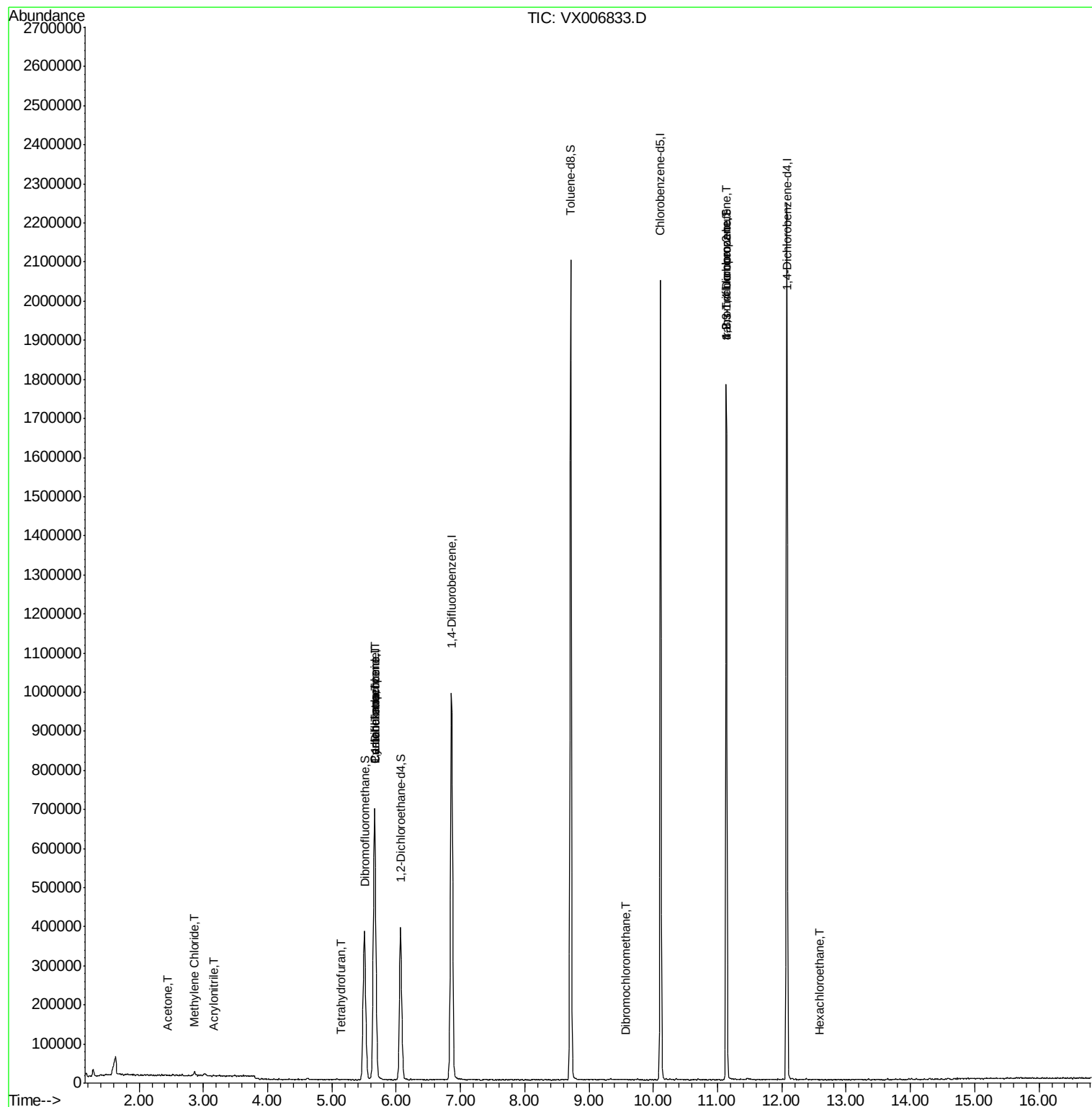
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1337	Below Cal		89
15) Acrylonitrile	3.16	53	850	0.220	ug/l	97
16) Acetone	2.44	43	872	0.244	ug/l	98
20) Methylene Chloride	2.87	84	4840	0.655	ug/l #	95
28) Bromochloromethane	5.04	49	115	Below Cal	#	50
29) Tetrahydrofuran	5.15	42	916	0.277	ug/l #	55
31) Cyclohexane	5.66	56	12409	1.152	ug/l #	9
36) 1,1-Dichloropropene	5.67	75	45116	5.108	ug/l #	50
38) Carbon Tetrachloride	5.67	117	65733	7.657	ug/l #	15
49) 1,4-Dioxane	7.77	88	250	Below Cal	#	40
60) Dibromochloromethane	9.56	129	103	2.337	ug/l #	33
76) 1,2,3-Trichloropropane	11.13	75	217936	23.899	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	217936	70.807	ug/l #	10
90) Hexachloroethane	12.58	117	56	3.304	ug/l	59

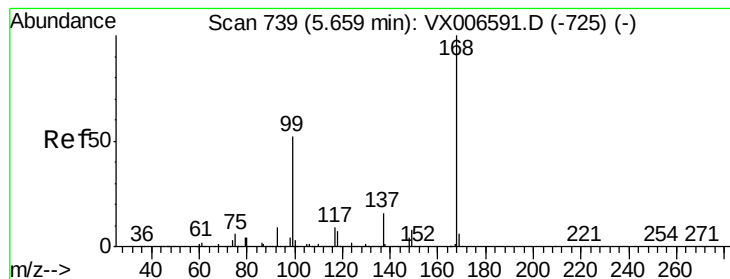
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX006833.D

Acq: 27 Dec 2018 11:09

Instrument :

MSVOA_X

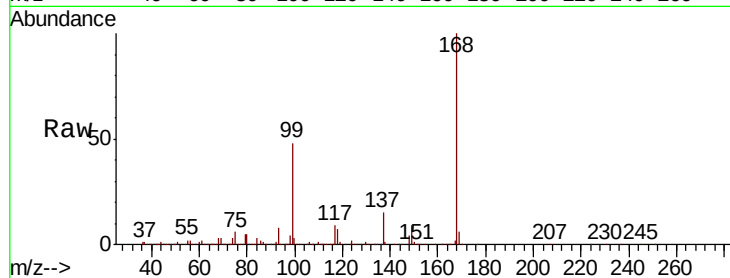
ClientSampled :

Tot Ion:168 Resp: 721930

Ion Ratio Lower Upper

168 100

99 48.4 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

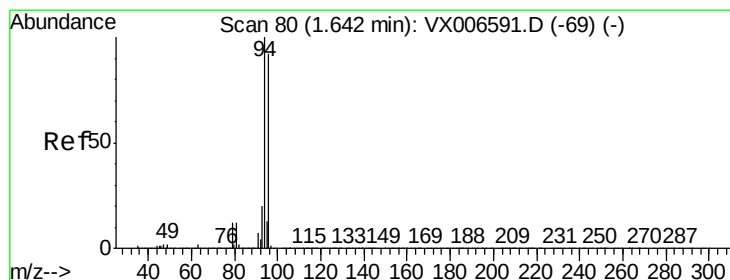
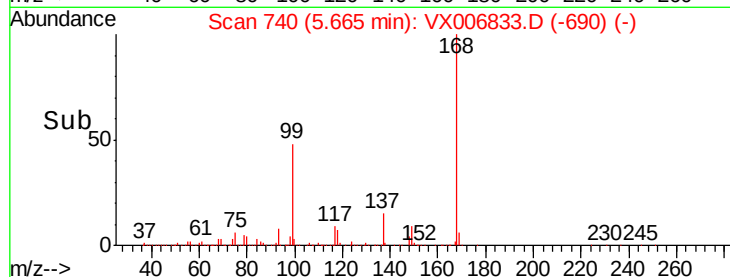
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX006833.D

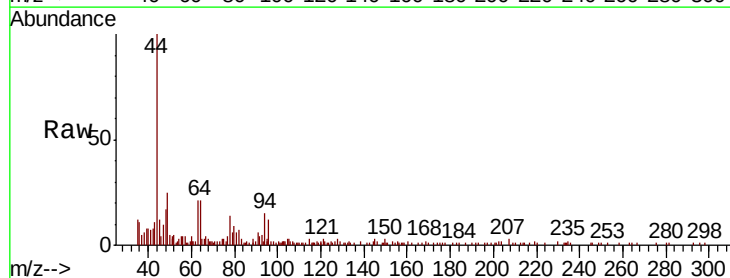
Acq: 27 Dec 2018 11:09

Tgt Ion: 94 Resp: 1337

Ion Ratio Lower Upper

94 100

96 102.2 73.4 110.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

1200

1000

800

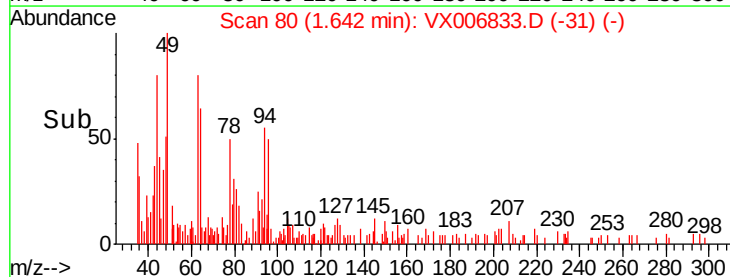
600

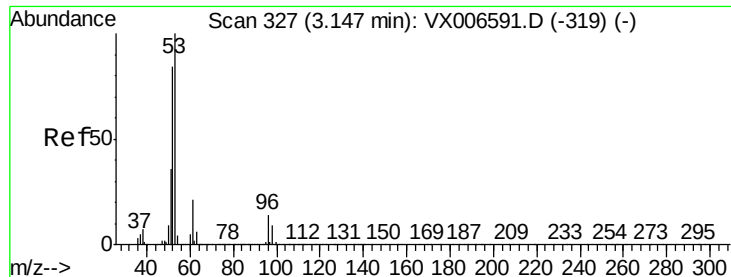
400

200

0

Time-->





#15

Acrylonitrile

Concen: 0.220 ug/l

RT: 3.16 min Scan# 329

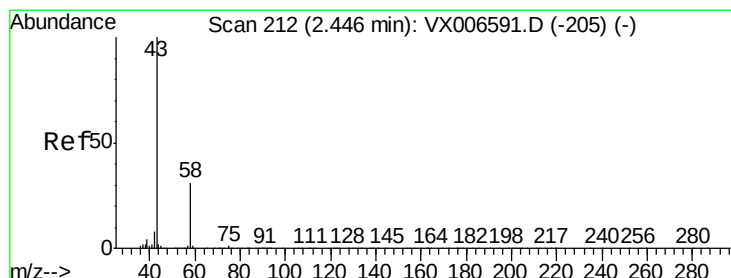
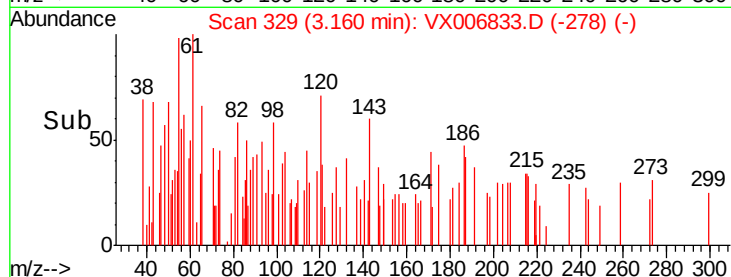
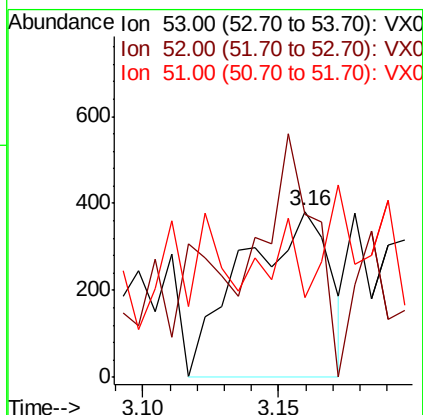
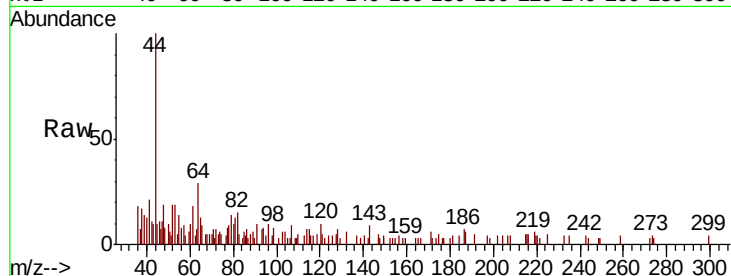
Delta R.T. 0.01 min

Lab File: VX006833.D

Acq: 27 Dec 2018 11:09

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	53	Resp:	850
Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.0	99.0
51	29.5	28.6	42.8



#16

Acetone

Concen: 0.244 ug/l

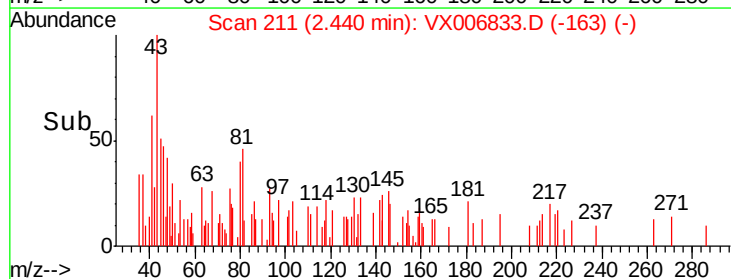
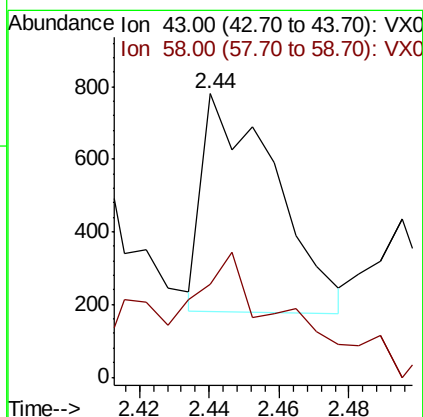
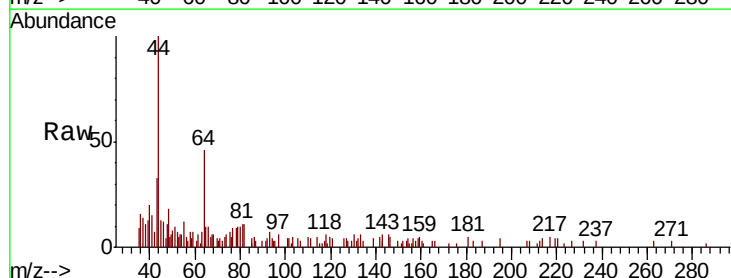
RT: 2.44 min Scan# 211

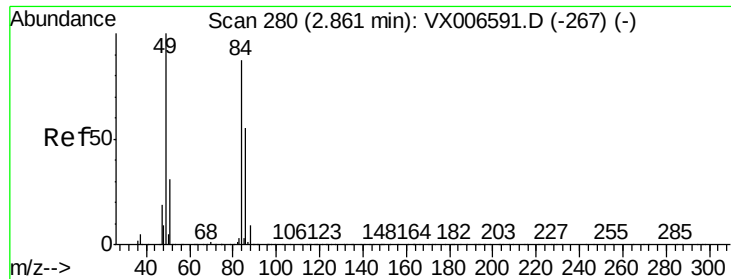
Delta R.T. -0.01 min

Lab File: VX006833.D

Acq: 27 Dec 2018 11:09

Tgt Ion:	43	Resp:	872
Ion	Ratio	Lower	Upper
43	100		
58	30.0	25.0	37.6

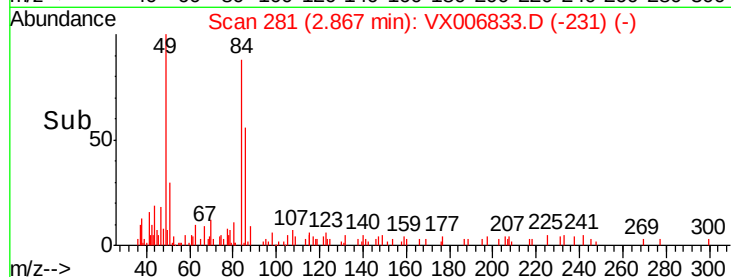
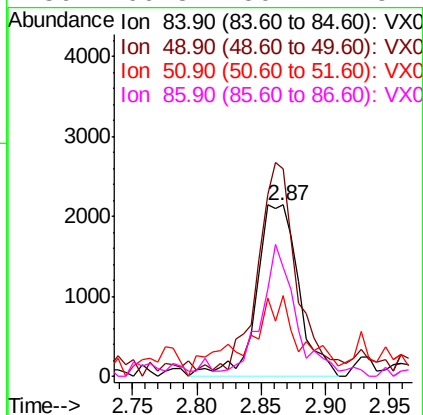
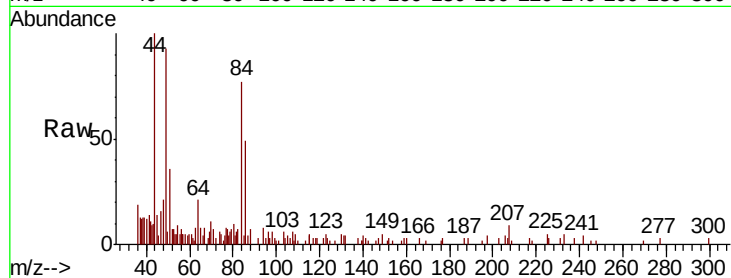




#20
Methylene Chloride
Concen: 0.655 ug/l
RT: 2.87 min Scan# 281
Delta R.T. 0.01 min
Lab File: VX006833.D
Acq: 27 Dec 2018 11:09

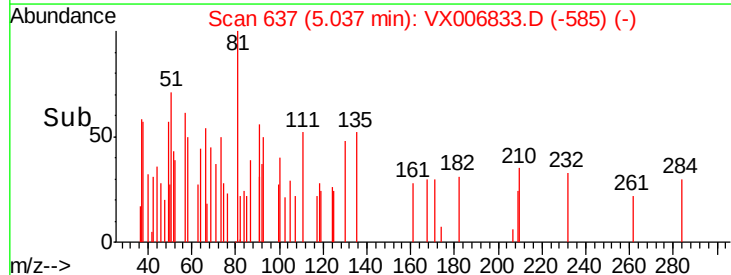
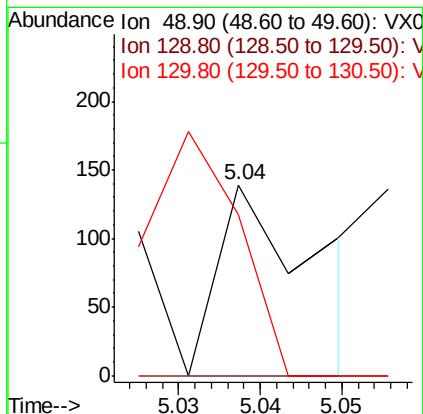
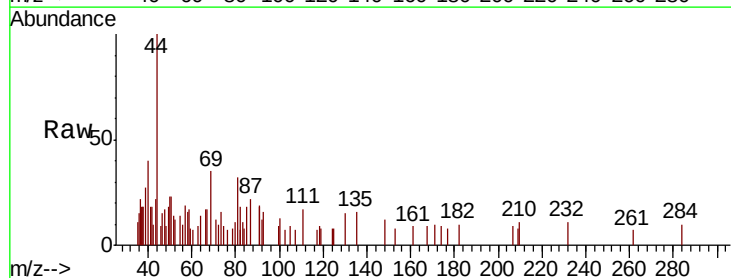
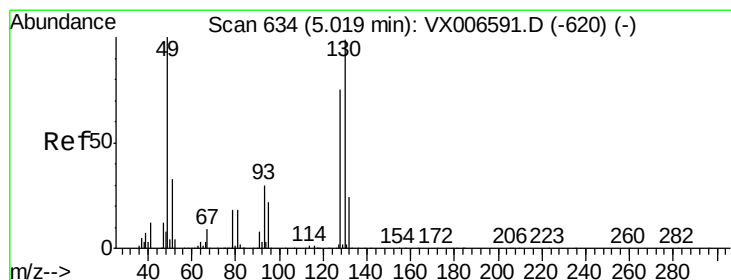
Instrument :
MSVOA_X
ClientSampleId :

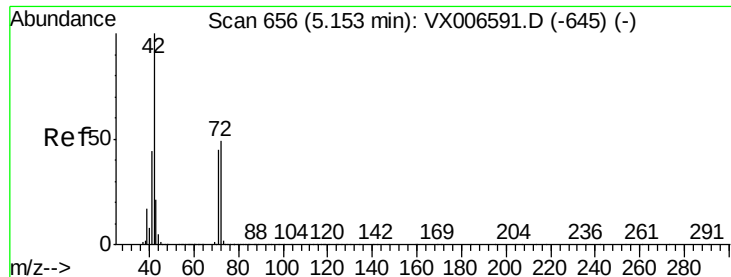
Tot Ion: 84 Resp: 4840
Ion Ratio Lower Upper
84 100
49 112.3 91.8 137.6
51 47.0 28.5 42.7#
86 60.8 50.2 75.2



#28
Bromochloromethane
Concen: Below Cal
RT: 5.04 min Scan# 637
Delta R.T. 0.02 min
Lab File: VX006833.D
Acq: 27 Dec 2018 11:09

Tgt Ion: 49 Resp: 115
Ion Ratio Lower Upper
49 100
129 0.0 0.0 5.4
130 147.0 77.7 116.5#





#29

Tetrahydrofuran

Concen: 0.277 ug/l

RT: 5.15 min Scan# 655

Delta R.T. -0.01 min

Lab File: VX006833.D

Acq: 27 Dec 2018 11:09

Instrument :

MSVOA_X

ClientSampleId :

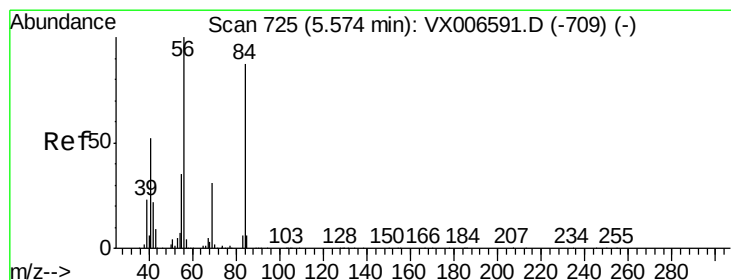
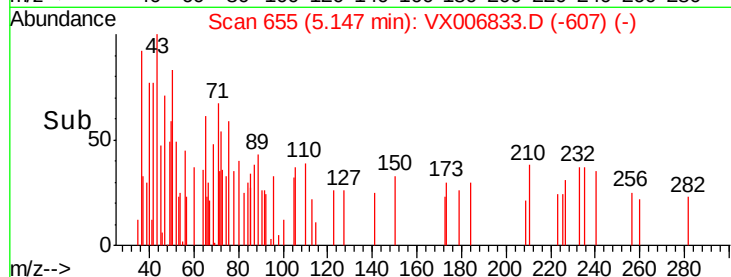
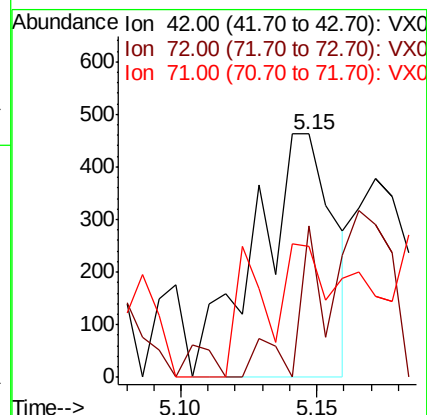
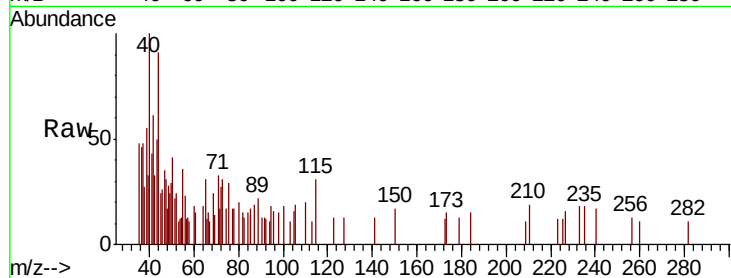
Tot Ion: 42 Resp: 916

Ion Ratio Lower Upper

42 100

72 0.0 38.9 58.3#

71 34.9 36.2 54.4#



#31

Cyclohexane

Concen: 1.152 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX006833.D

Acq: 27 Dec 2018 11:09

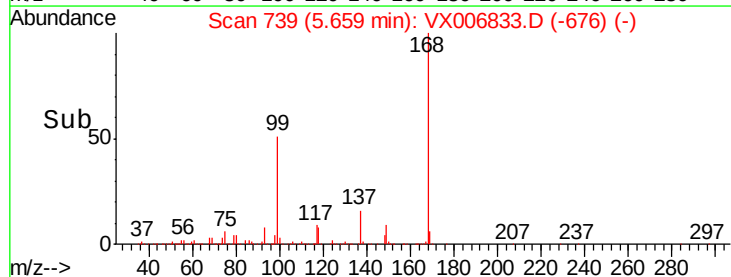
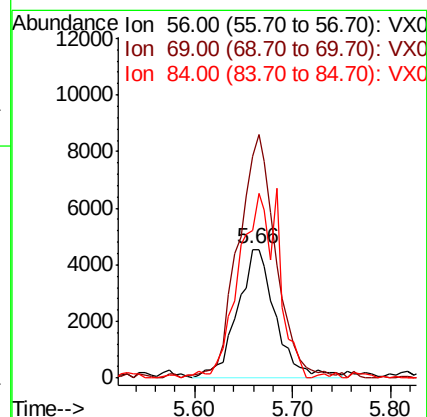
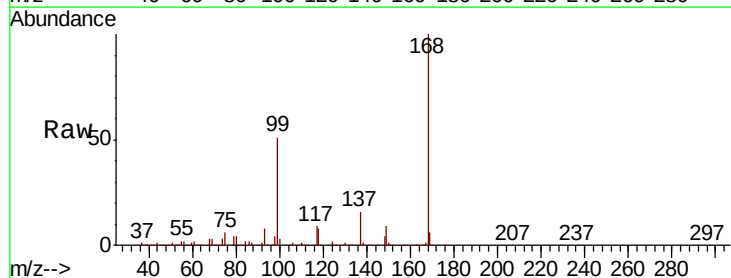
Tgt Ion: 56 Resp: 12409

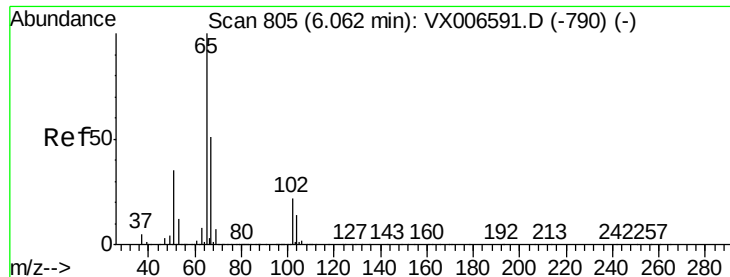
Ion Ratio Lower Upper

56 100

69 173.6 24.4 36.6#

84 116.9 70.0 105.0#





#33

1,2-Dichloroethane-d4

Concen: 46.791 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006833.D

Acq: 27 Dec 2018 11:09

Instrument :

MSVOA_X

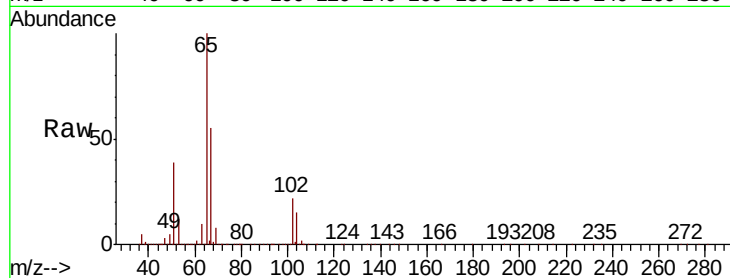
ClientSampleId :

Tot Ion: 65 Resp: 364063

Ion Ratio Lower Upper

65 100

67 52.9 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX006591.D (-790) (-)

Ion 66.90 (66.60 to 67.60): VX006591.D (-790) (-)

6.07

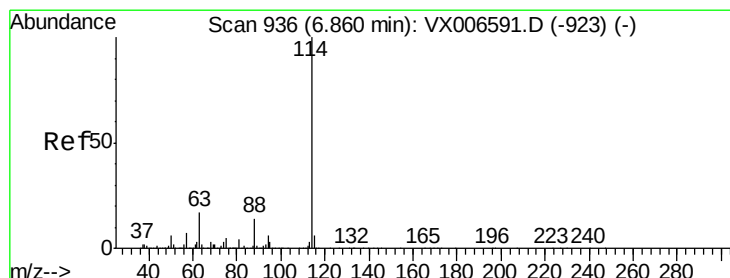
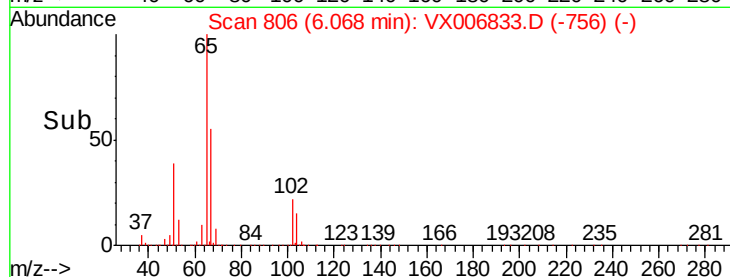
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX006833.D

Acq: 27 Dec 2018 11:09

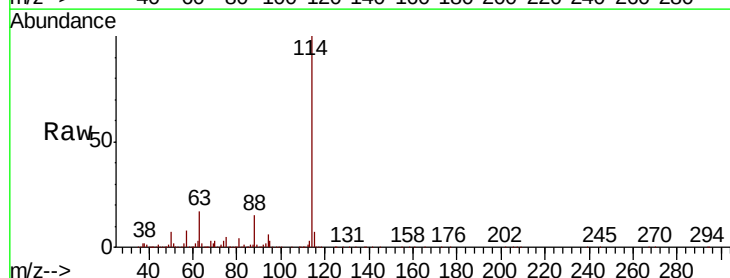
Tgt Ion: 114 Resp: 1066518

Ion Ratio Lower Upper

114 100

63 17.5 0.0 34.8

88 15.1 0.0 28.8



Abundance Ion 113.90 (113.60 to 114.60): VX006591.D (-923) (-)

Ion 63.00 (62.70 to 63.70): VX006591.D (-923) (-)

Ion 87.90 (87.60 to 88.60): VX006591.D (-923) (-)

6.86

600000

500000

400000

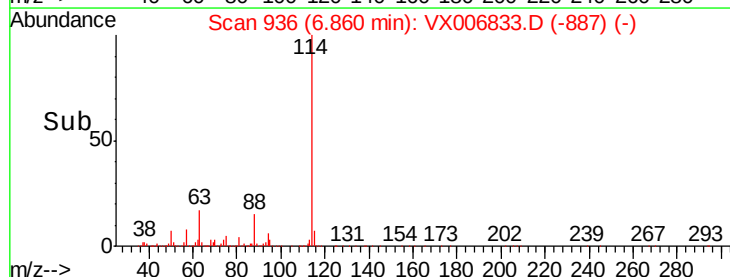
300000

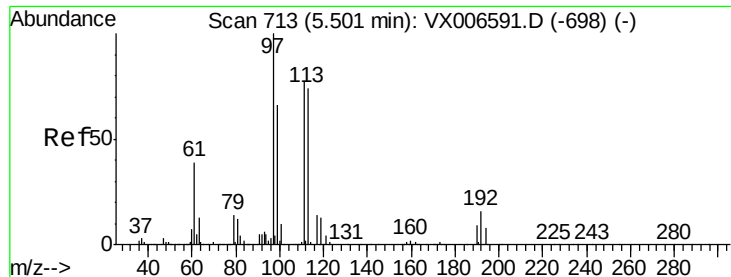
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 47.379 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006833.D

Acq: 27 Dec 2018 11:09

Instrument :
MSVOA_X
ClientSampleId :

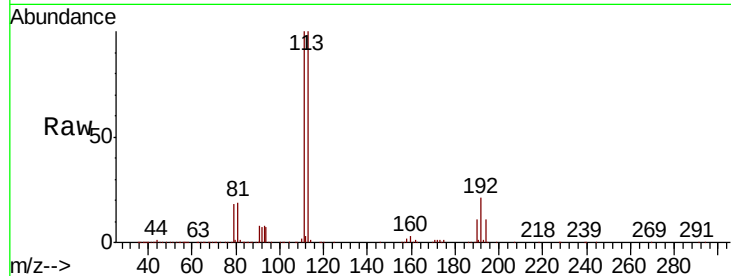
Tot Ion:113 Resp: 319546

Ion Ratio Lower Upper

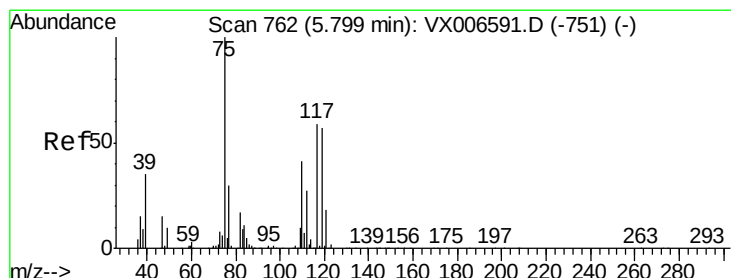
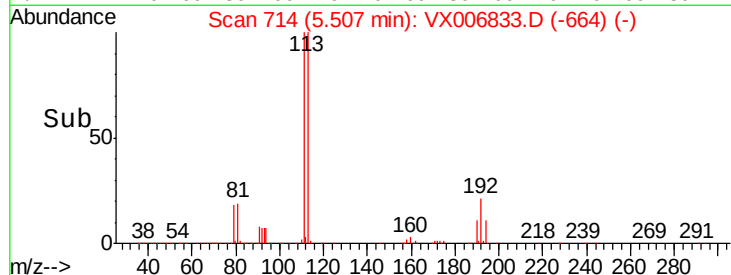
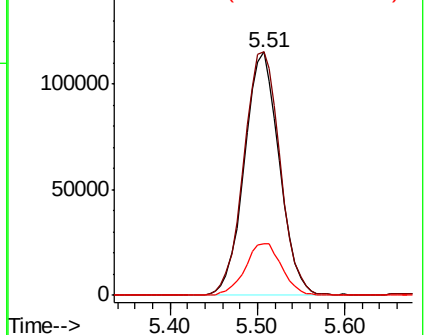
113 100

111 103.9 81.6 122.4

192 22.3 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: 5.108 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006833.D

Acq: 27 Dec 2018 11:09

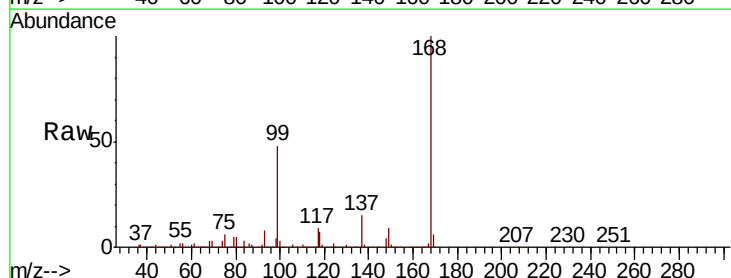
Tgt Ion: 75 Resp: 45116

Ion Ratio Lower Upper

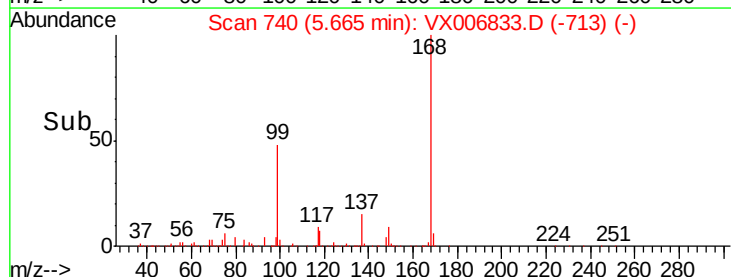
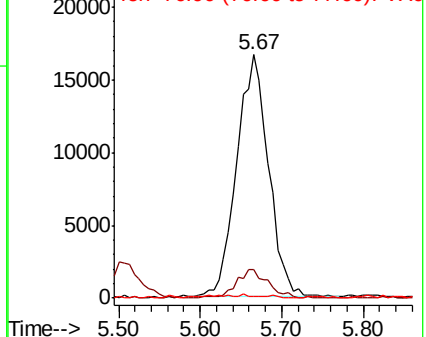
75 100

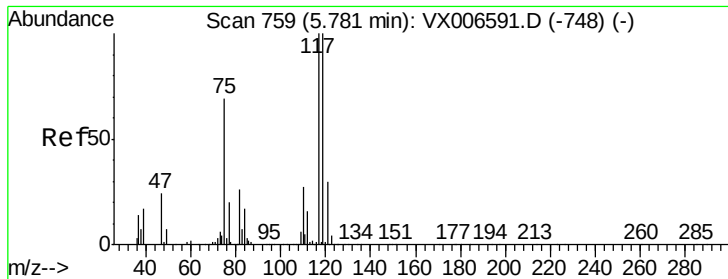
110 11.7 20.2 60.5#

77 0.4 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 7.657 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006833.D

Acq: 27 Dec 2018 11:09

Instrument :

MSVOA_X

ClientSampled :

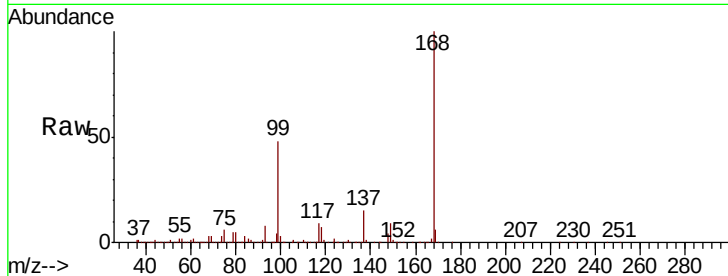
Tot Ion:117 Resp: 65733

Ion Ratio Lower Upper

117 100

119 5.8 79.4 119.2#

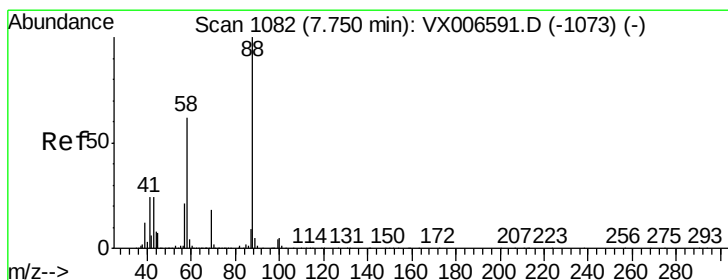
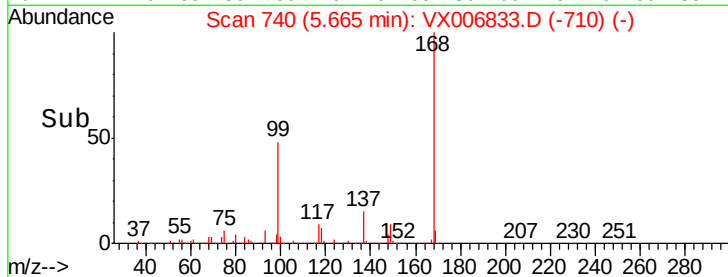
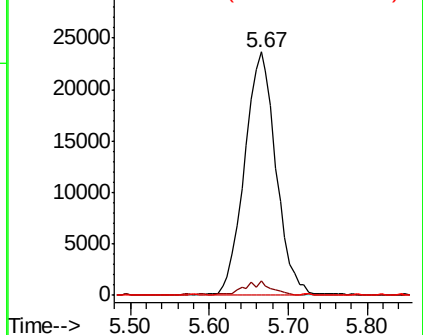
121 0.0 24.0 36.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.77 min Scan# 1085

Delta R.T. 0.02 min

Lab File: VX006833.D

Acq: 27 Dec 2018 11:09

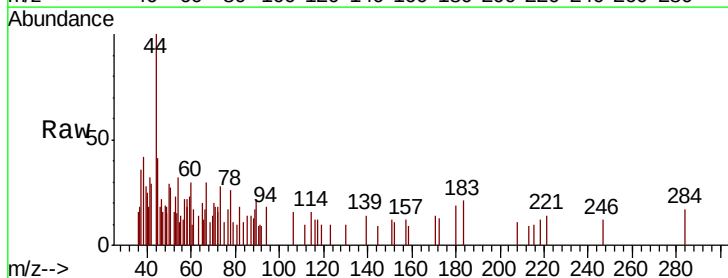
Tgt Ion: 88 Resp: 250

Ion Ratio Lower Upper

88 100

43 102.8 22.2 33.4#

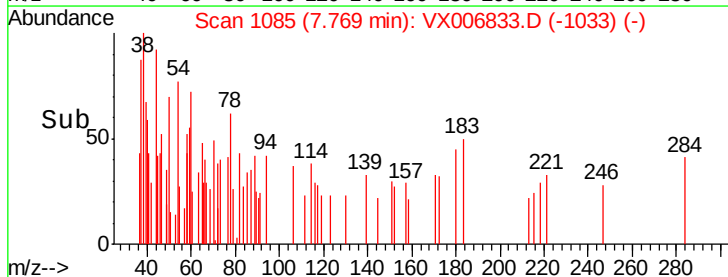
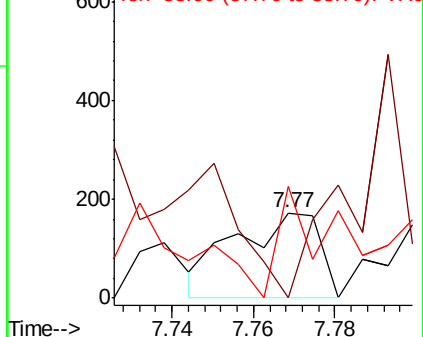
58 82.8 51.0 76.4#

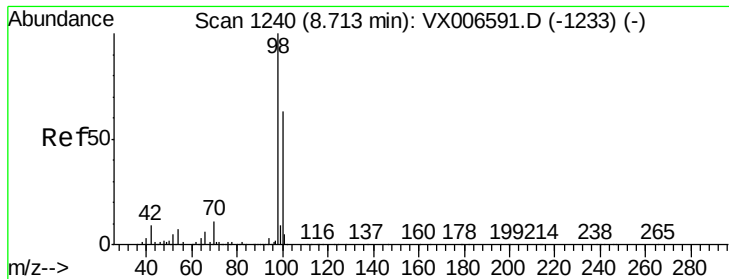


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.521 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX006833.D

Acq: 27 Dec 2018 11:09

Instrument :

MSVOA_X

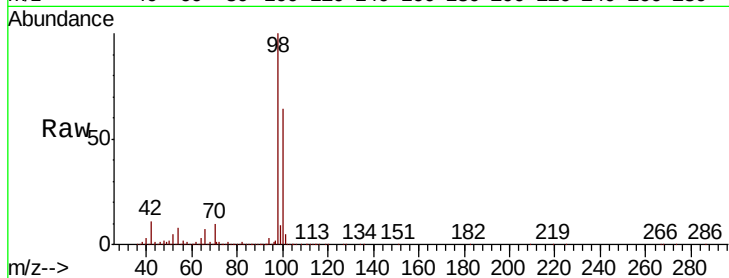
ClientSampleId :

Tot Ion: 98 Resp: 1259164

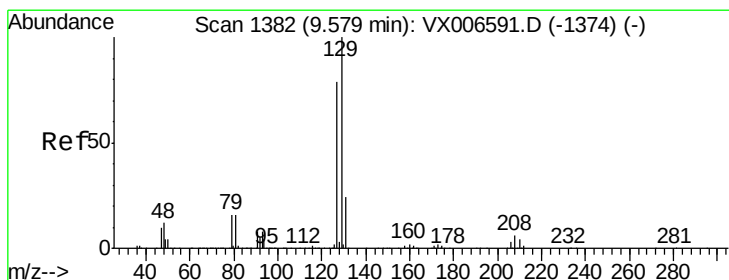
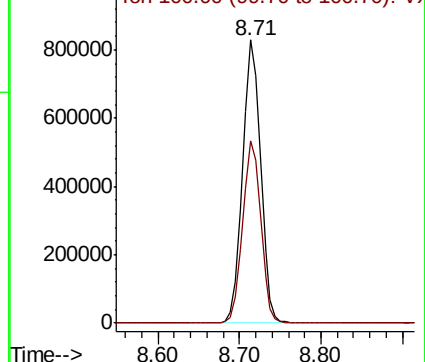
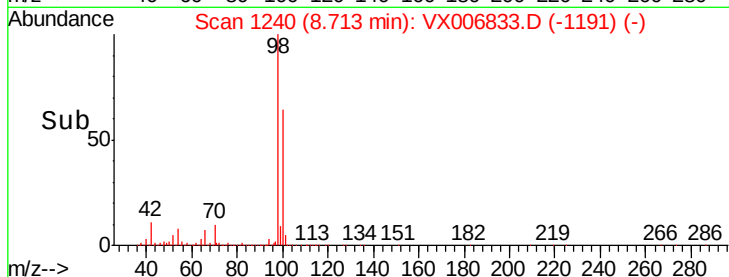
Ion Ratio Lower Upper

98 100

100 64.6 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX006833.D (-1191) (-)



#60

Dibromochloromethane

Concen: 2.337 ug/l

RT: 9.56 min Scan# 1379

Delta R.T. -0.02 min

Lab File: VX006833.D

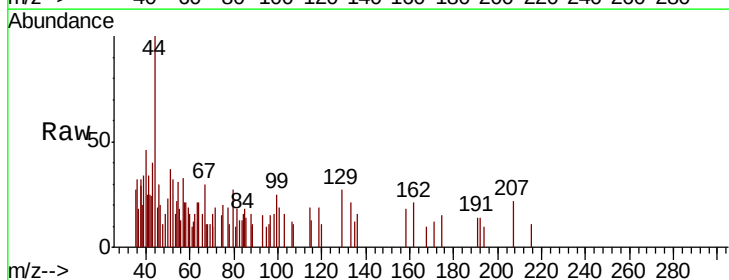
Acq: 27 Dec 2018 11:09

Tgt Ion: 129 Resp: 103

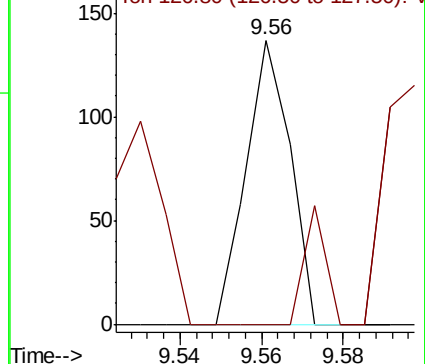
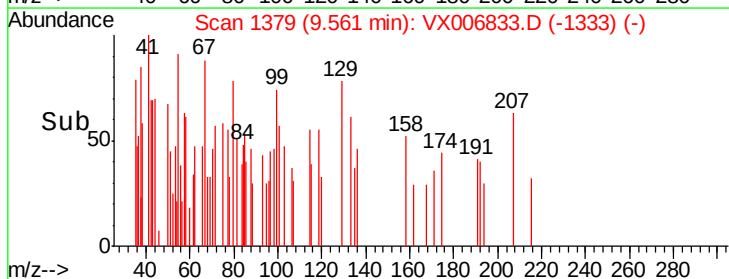
Ion Ratio Lower Upper

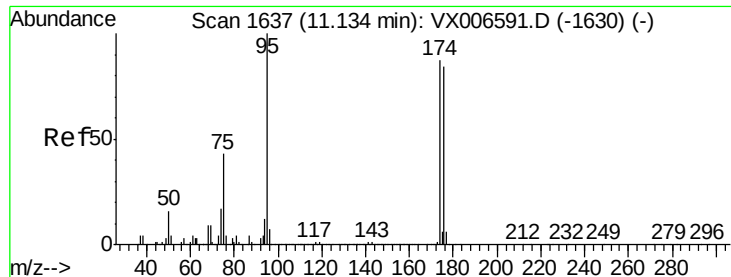
129 100

127 20.4 39.3 117.8#



Abundance Ion 128.80 (128.50 to 129.50): VX006833.D (-1333) (-)





#62

4-Bromofluorobenzene

Concen: 48.800 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX006833.D

Acq: 27 Dec 2018 11:09

Instrument :

MSVOA_X

ClientSampleId :

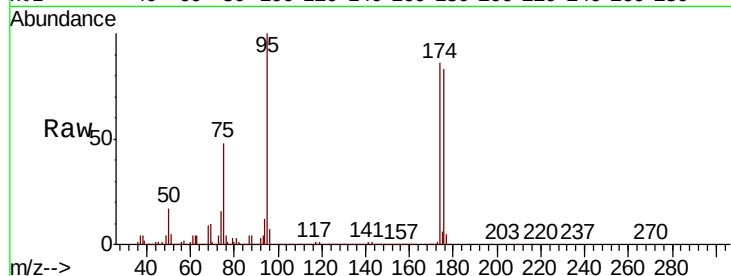
Tot Ion: 95 Resp: 454441

Ion Ratio Lower Upper

95 100

174 93.5 0.0 182.2

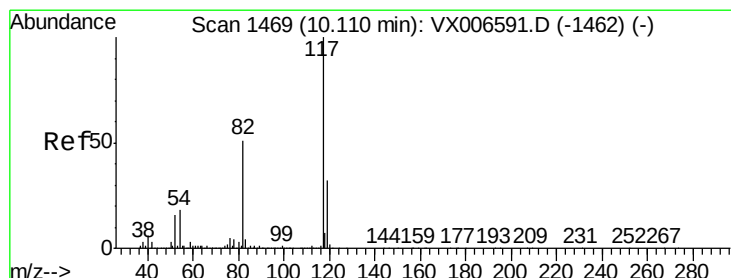
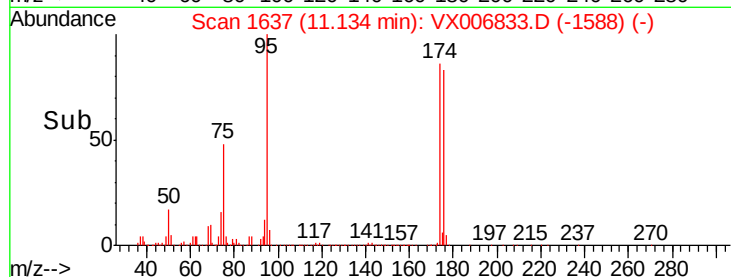
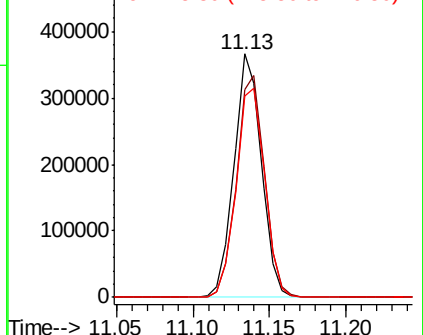
176 90.3 0.0 178.8



Abundance Ion 94.90 (94.60 to 95.60): VX006591.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX006591.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX006591.D (-1630) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX006833.D

Acq: 27 Dec 2018 11:09

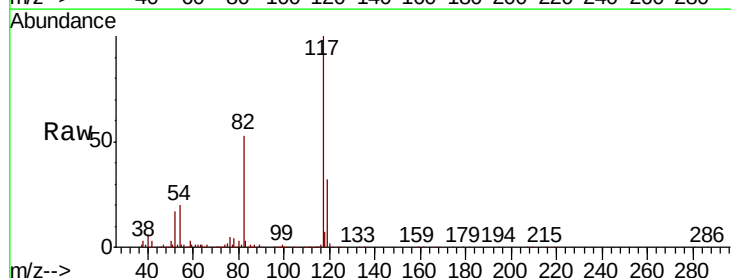
Tgt Ion: 117 Resp: 984588

Ion Ratio Lower Upper

117 100

82 53.2 41.0 61.6

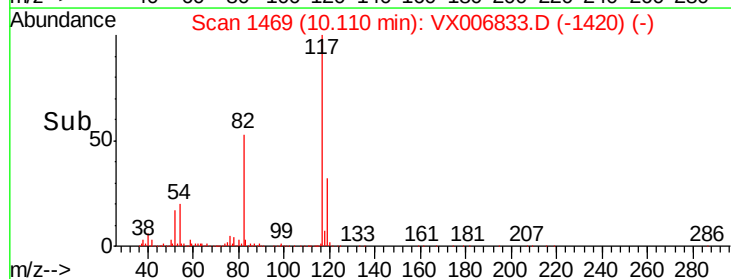
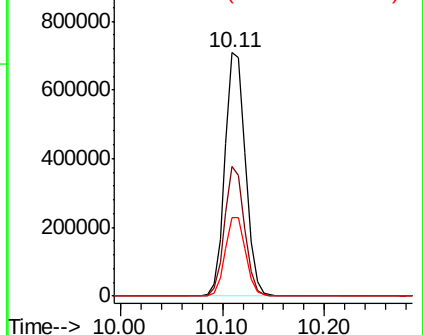
119 32.0 25.4 38.0

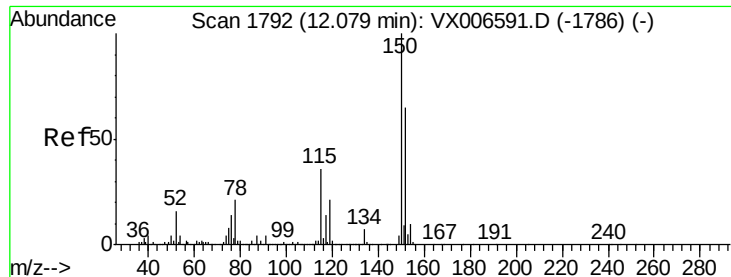


Abundance Ion 116.90 (116.60 to 117.60): VX006591.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX006591.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX006591.D (-1462) (-)

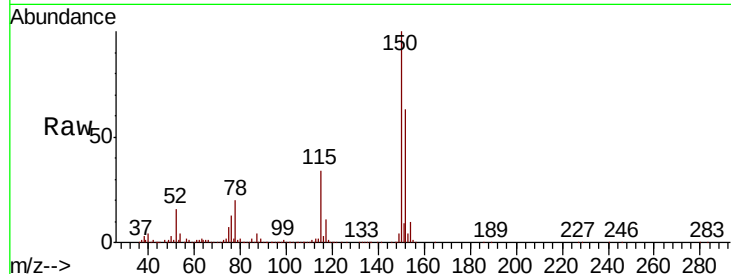




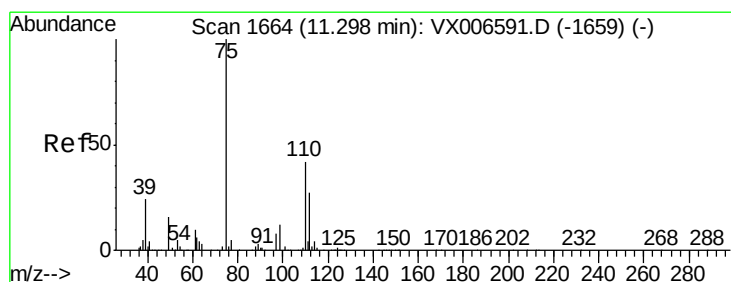
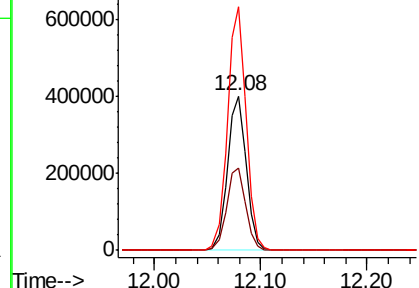
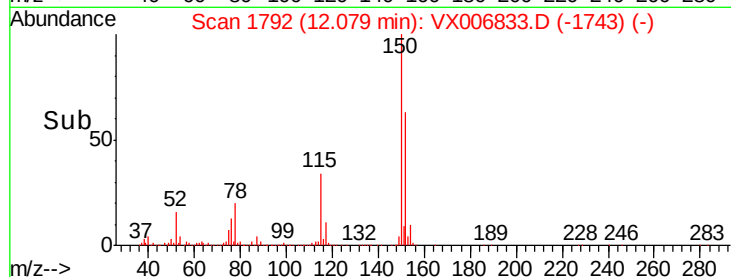
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.08 min Scan# 1792
 Delta R.T. 0.00 min
 Lab File: VX006833.D
 Acq: 27 Dec 2018 11:09

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	54.5	39.1	117.2
150	156.3	0.0	344.8

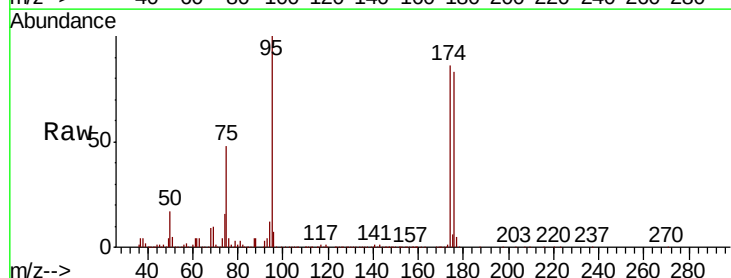


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

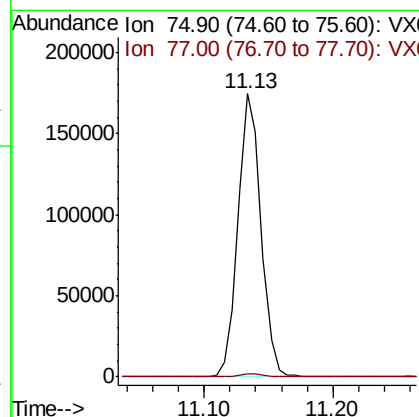
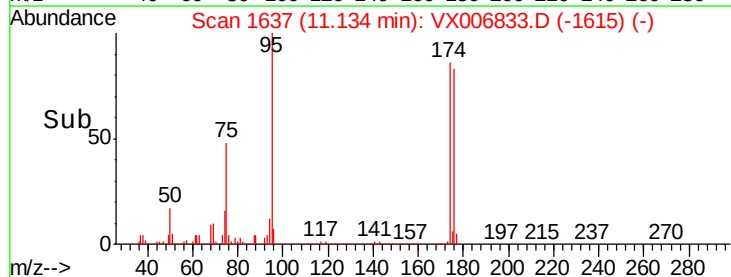


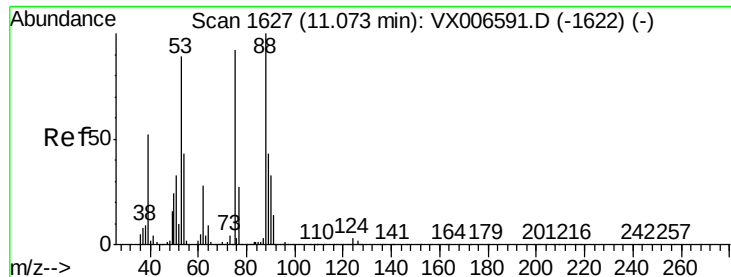
#76
 1,2,3-Trichloropropane
 Concen: 23.899 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX006833.D
 Acq: 27 Dec 2018 11:09

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.3	18.5	55.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 70.807 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006833.D

Acq: 27 Dec 2018 11:09

Instrument :

MSVOA_X

ClientSampleId :

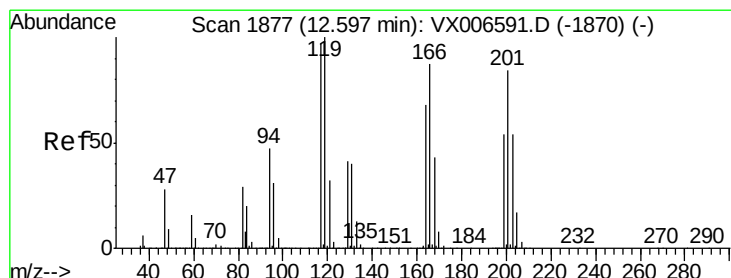
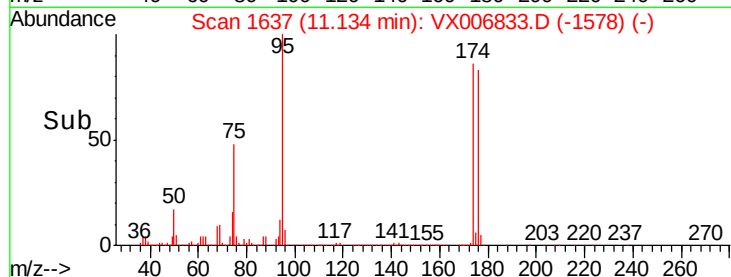
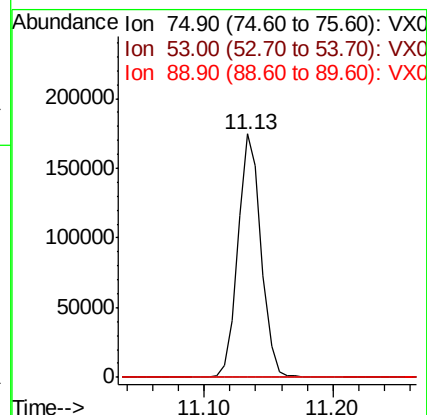
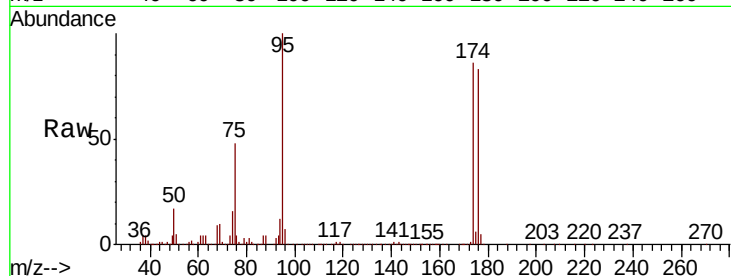
Tot Ion: 75 Resp: 217936

Ion Ratio Lower Upper

75 100

53 0.1 79.7 119.5#

89 0.0 38.0 57.0#



#90

Hexachloroethane

Concen: 3.304 ug/l

RT: 12.58 min Scan# 1875

Delta R.T. -0.01 min

Lab File: VX006833.D

Acq: 27 Dec 2018 11:09

Tgt Ion: 117 Resp: 56

Ion Ratio Lower Upper

117 100

201 48.2 42.9 128.7

