

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061219\
 Data File : VX010259.D
 Acq On : 12 Jun 2019 18:31
 Operator : JC/SP
 Sample : K3309-17 100X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 13 01:29:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 02:12:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	318027	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	480265	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	429077	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	198242	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	142358	45.86	ug/l	0.00
Spiked Amount			Recovery	=	91.72%	
35) Dibromofluoromethane	5.50	113	147250	49.71	ug/l	0.00
Spiked Amount			Recovery	=	99.42%	
50) Toluene-d8	8.71	98	561720	50.59	ug/l	0.00
Spiked Amount			Recovery	=	101.18%	
62) 4-Bromofluorobenzene	11.13	95	189914	45.80	ug/l	0.00
Spiked Amount			Recovery	=	91.60%	

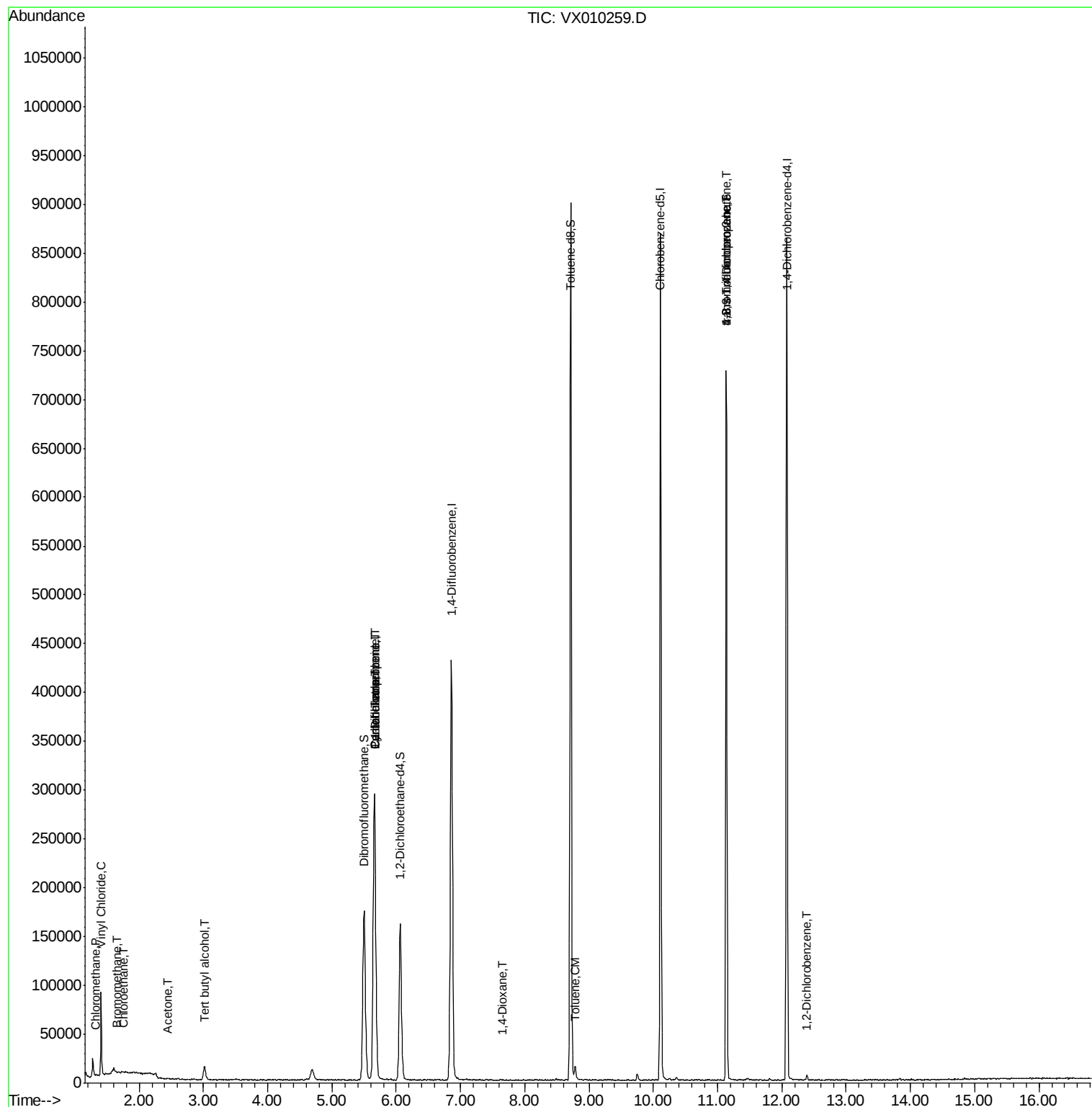
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	680	0.234	ug/l #	66
4) Vinyl Chloride	1.41	62	56662	20.745	ug/l	99
5) Bromomethane	1.65	94	252	0.244	ug/l #	59
6) Chloroethane	1.75	64	601	0.436	ug/l #	78
11) Tert butyl alcohol	3.01	59	7480	9.836	ug/l #	81
16) Acetone	2.44	43	870	0.596	ug/l	90
31) Cyclohexane	5.66	56	4795	1.061	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	19535	4.986	ug/l #	51
38) Carbon Tetrachloride	5.66	117	26986	6.085	ug/l #	15
49) 1,4-Dioxane	7.66	88	20	0.220	ug/l #	1
52) Toluene	8.79	92	4648	0.584	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	86026	21.695	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	86026	47.934	ug/l #	10
91) 1,2-Dichlorobenzene	12.39	146	1866	0.286	ug/l	91

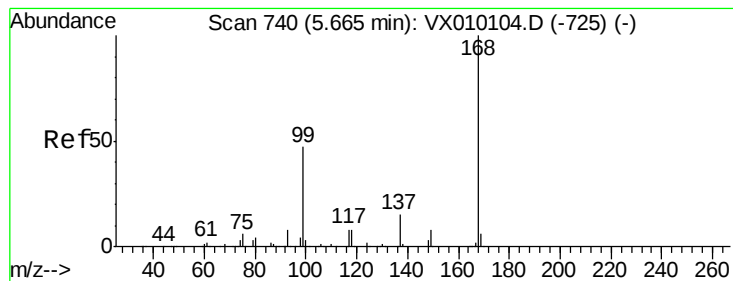
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X060719W.M
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX010259.D

Acq: 12 Jun 2019 18:31

Instrument :

MSVOA_X

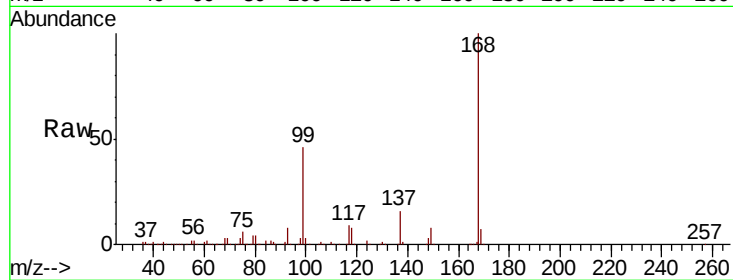
ClientSampleId :

Tot Ion:168 Resp: 318027

Ion Ratio Lower Upper

168 100

99 46.2 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

120000

100000

80000

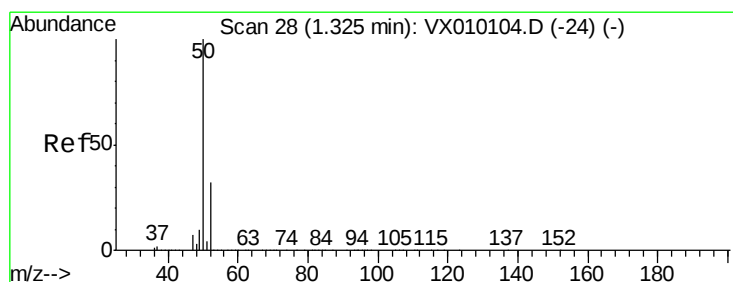
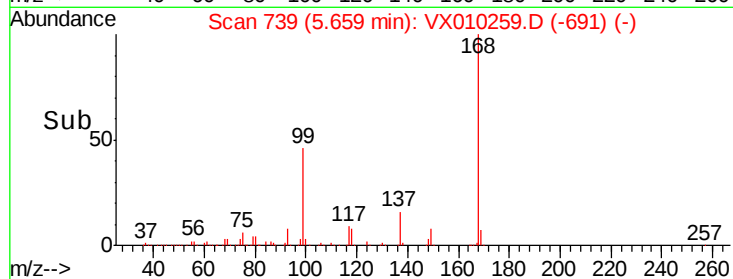
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.234 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX010259.D

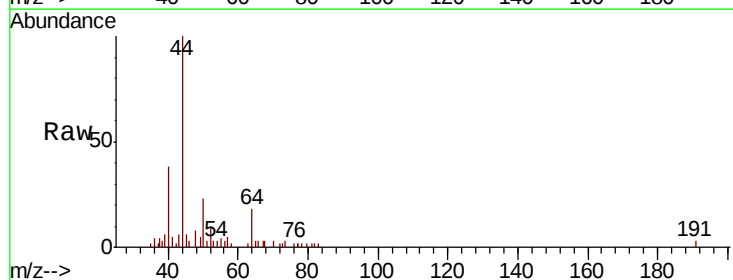
Acq: 12 Jun 2019 18:31

Tgt Ion: 50 Resp: 680

Ion Ratio Lower Upper

50 100

52 51.8 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

800

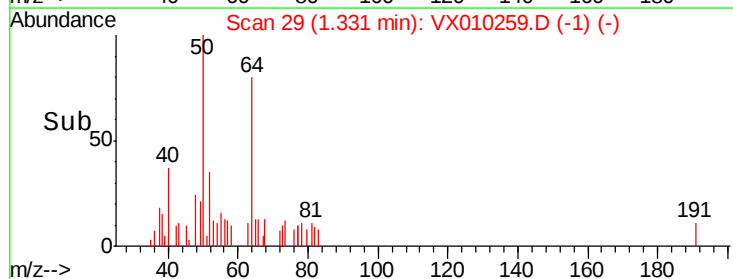
600

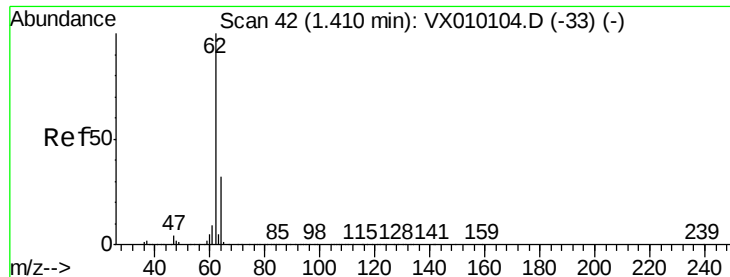
400

200

0

Time--> 1.30 1.32 1.34 1.36





#4

Vinyl Chloride

Concen: 20.745 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX010259.D

Acq: 12 Jun 2019 18:31

Instrument :

MSVOA_X

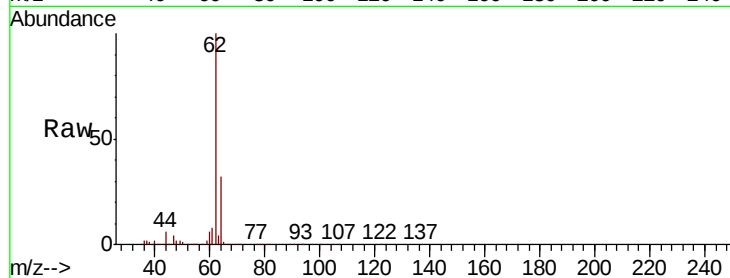
ClientSampleId :

Tot Ion: 62 Resp: 56662

Ion Ratio Lower Upper

62 100

64 31.5 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.41

50000

40000

30000

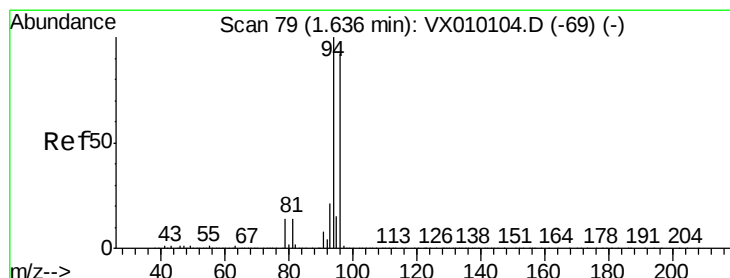
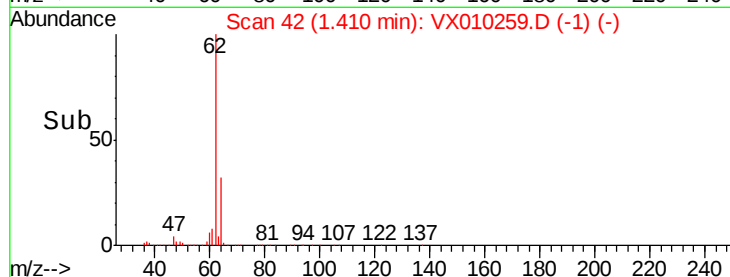
20000

10000

0

1.35 1.40 1.45 1.50

Time-->



#5

Bromomethane

Concen: 0.244 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX010259.D

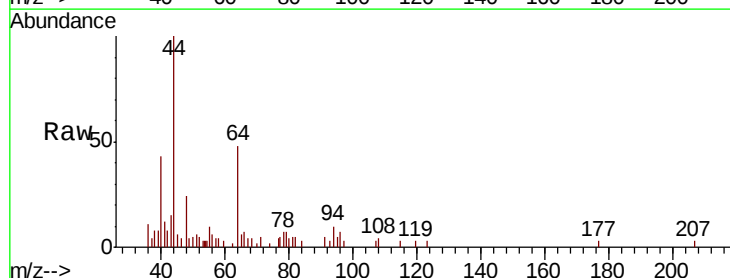
Acq: 12 Jun 2019 18:31

Tgt Ion: 94 Resp: 252

Ion Ratio Lower Upper

94 100

96 55.6 76.2 114.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

250

200

150

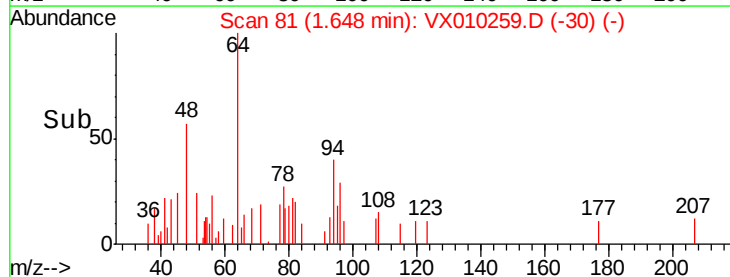
100

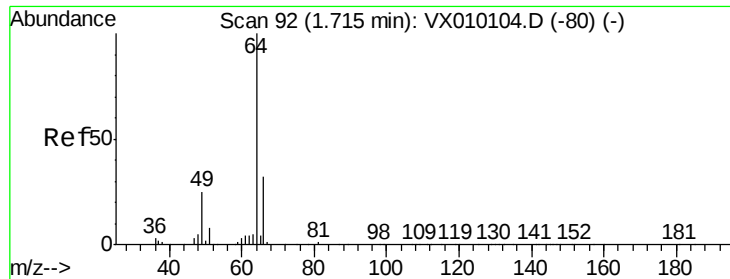
50

0

1.60 1.62 1.64 1.66 1.68

Time-->





#6

Chloroethane

Concen: 0.436 ug/l

RT: 1.75 min Scan# 97

Delta R.T. 0.03 min

Lab File: VX010259.D

Acq: 12 Jun 2019 18:31

Instrument :

MSVOA_X

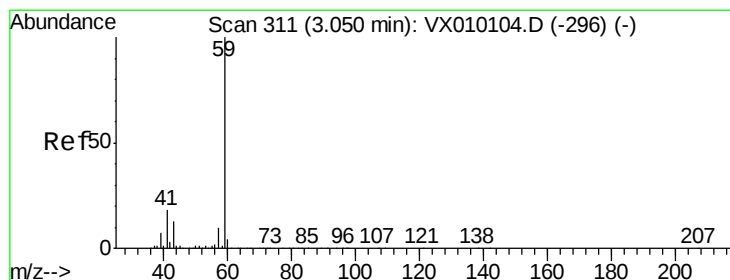
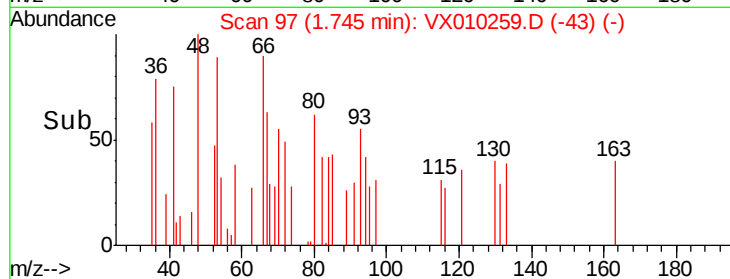
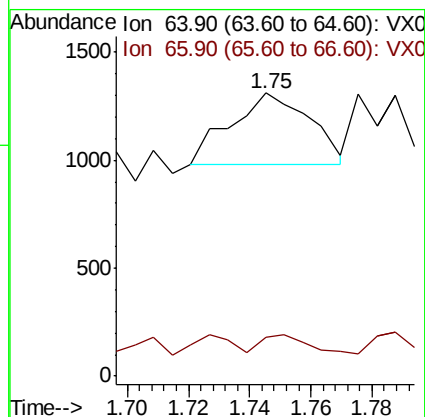
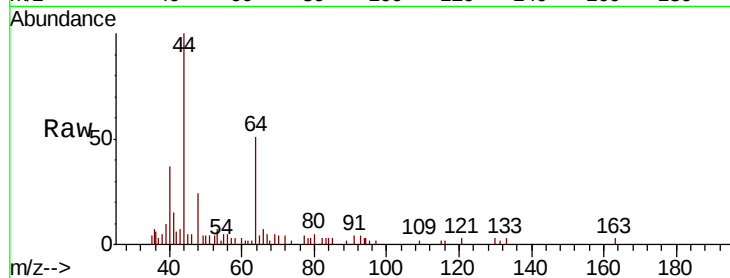
ClientSampleId :

Tot Ion: 64 Resp: 601

Ion Ratio Lower Upper

64 100

66 19.0 25.1 37.7#



#11

Tert butyl alcohol

Concen: 9.836 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.04 min

Lab File: VX010259.D

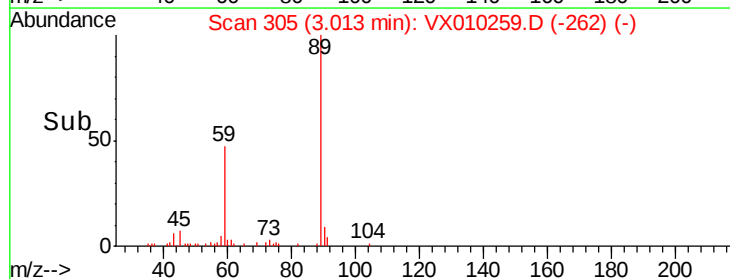
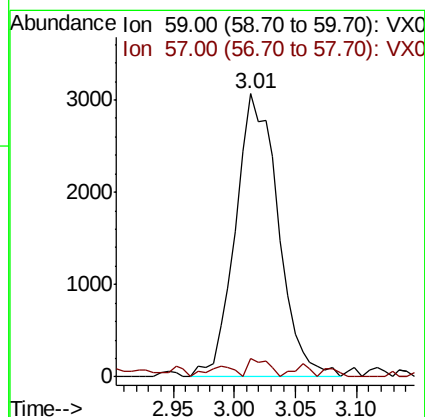
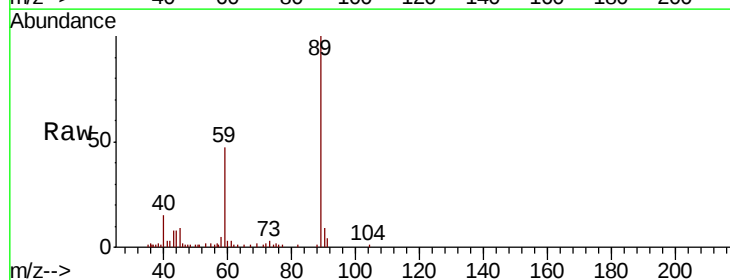
Acq: 12 Jun 2019 18:31

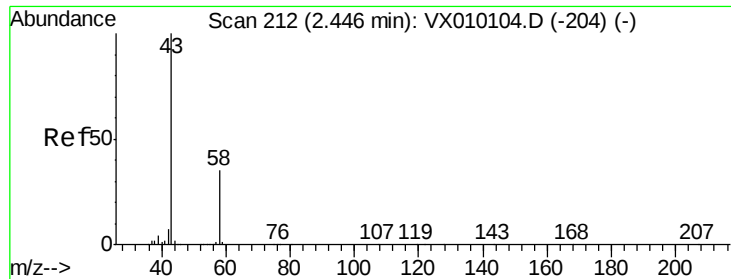
Tgt Ion: 59 Resp: 7480

Ion Ratio Lower Upper

59 100

57 3.0 8.2 12.2#

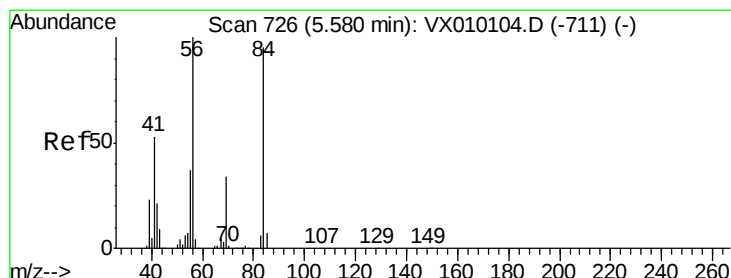
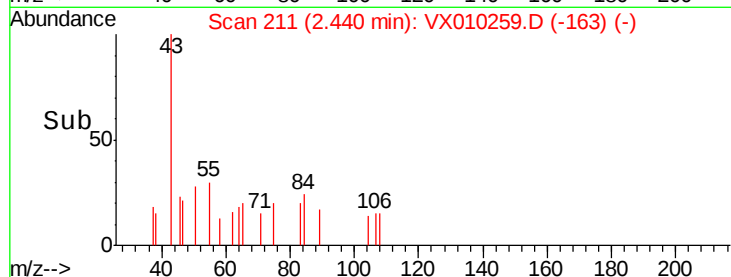
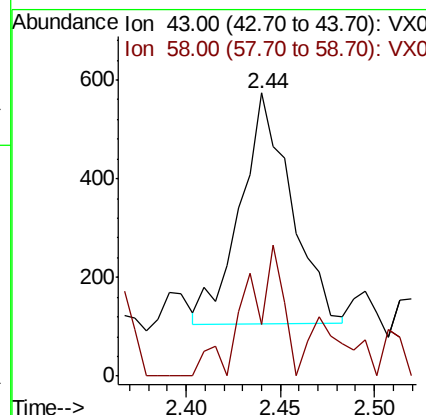
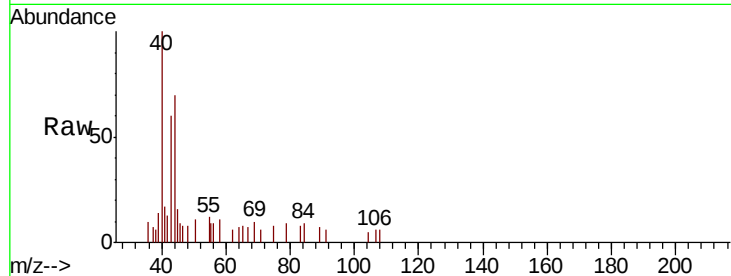




#16
Acetone
Concen: 0.596 ug/l
RT: 2.44 min Scan# 211
Delta R.T. -0.01 min
Lab File: VX010259.D
Acq: 12 Jun 2019 18:31

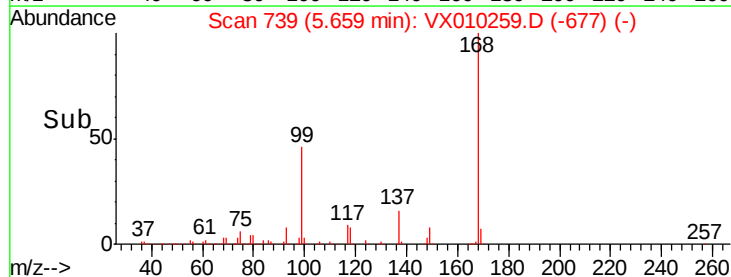
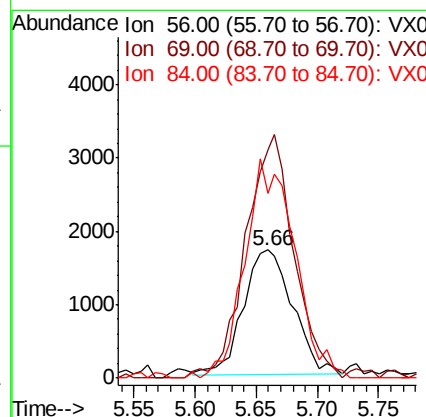
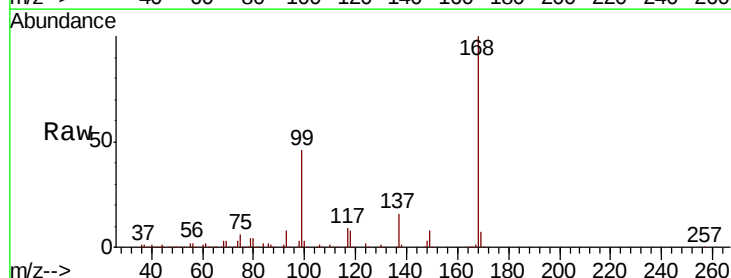
Instrument :
MSVOA_X
ClientSampleId :

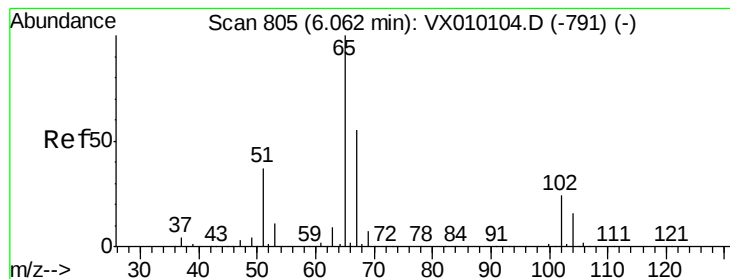
Tot Ion: 43 Resp: 870
Ion Ratio Lower Upper
43 100
58 23.5 23.2 34.8



#31
Cyclohexane
Concen: 1.061 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX010259.D
Acq: 12 Jun 2019 18:31

Tgt Ion: 56 Resp: 4795
Ion Ratio Lower Upper
56 100
69 183.8 21.6 32.4#
84 144.7 56.8 85.2#





#33

1,2-Dichloroethane-d4

Concen: 45.858 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010259.D

Acq: 12 Jun 2019 18:31

Instrument :

MSVOA_X

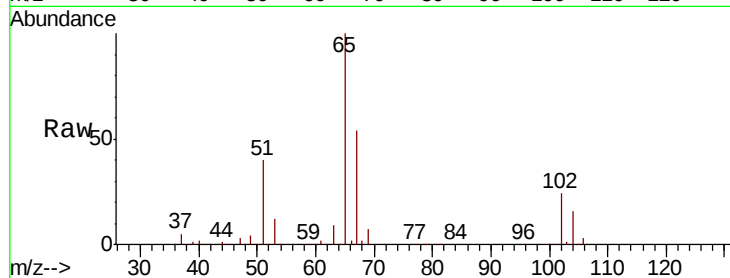
ClientSampleId :

Tot Ion: 65 Resp: 142358

Ion Ratio Lower Upper

65 100

67 55.7 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

60000

50000

40000

30000

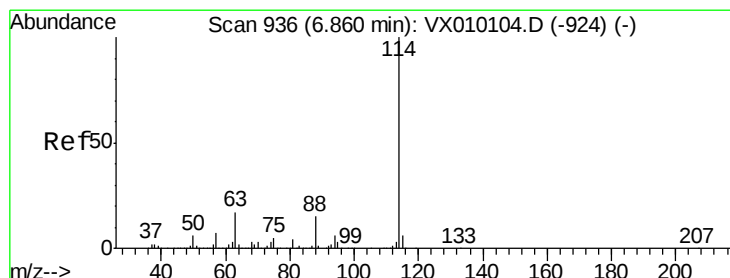
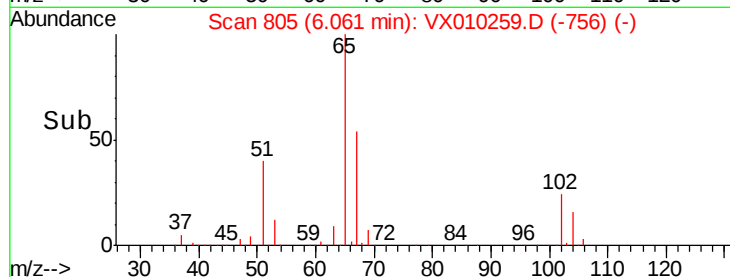
20000

10000

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: VX010259.D

Acq: 12 Jun 2019 18:31

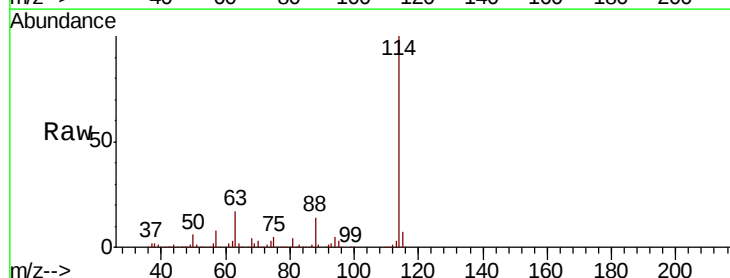
Tgt Ion: 114 Resp: 480265

Ion Ratio Lower Upper

114 100

63 16.7 0.0 47.4

88 13.8 0.0 33.0



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

250000

200000

150000

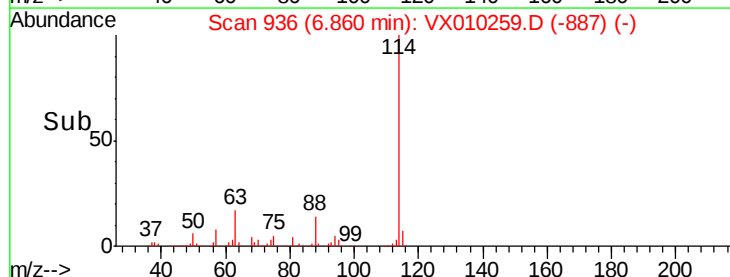
100000

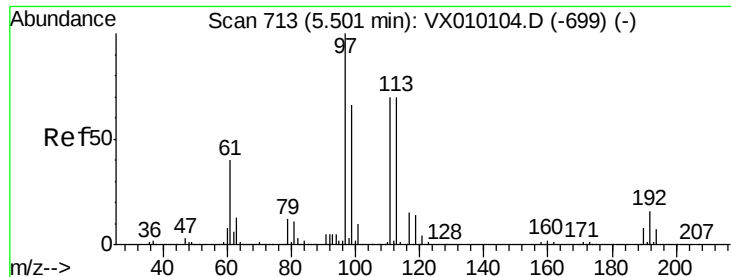
50000

0

Time-->

6.70 6.80 6.90 7.00

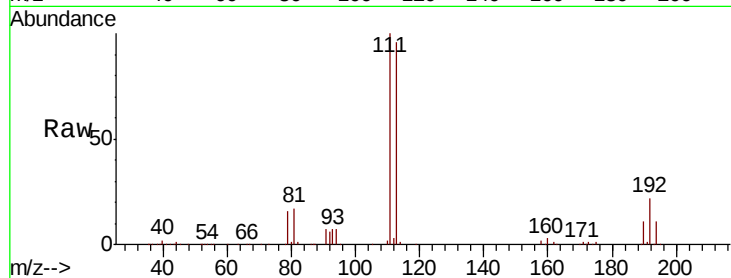




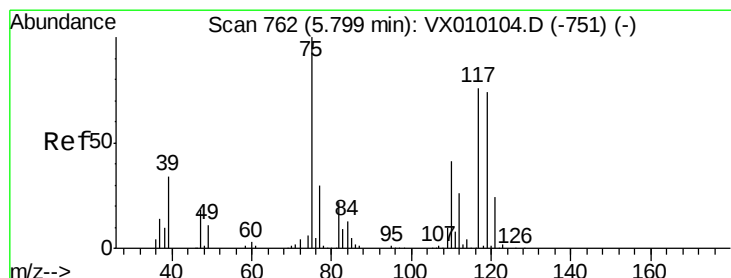
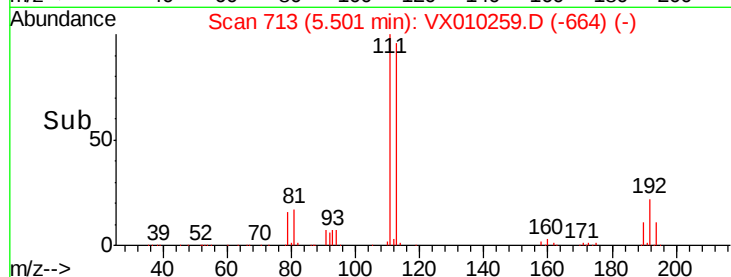
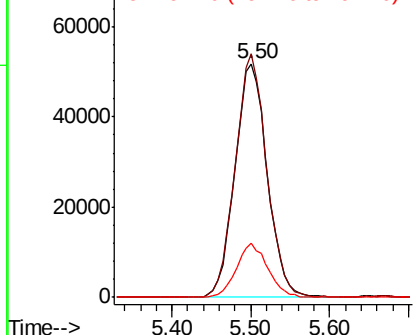
#35
Dibromofluoromethane
Concen: 49.707 ug/l
RT: 5.50 min Scan# 713
Delta R.T. -0.00 min
Lab File: VX010259.D
Acq: 12 Jun 2019 18:31

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:113 Resp: 147250
Ion Ratio Lower Upper
113 100
111 101.5 82.2 123.2
192 22.5 17.1 25.7

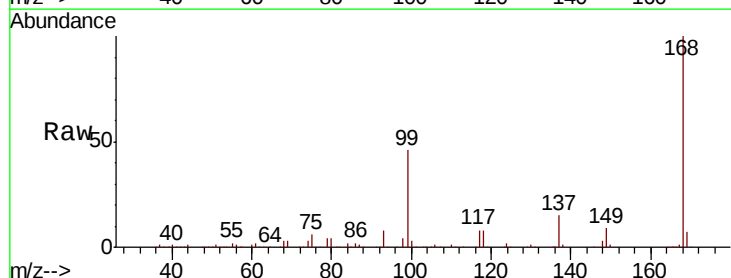


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

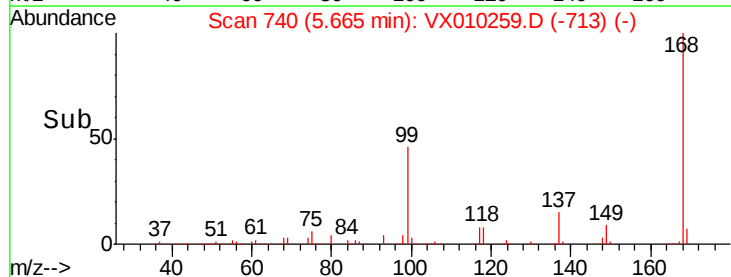
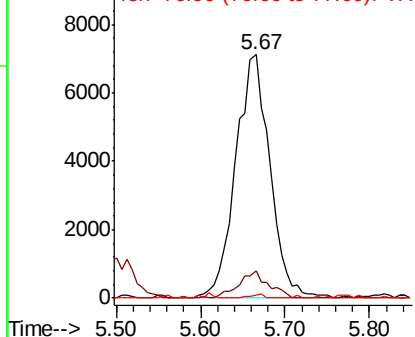


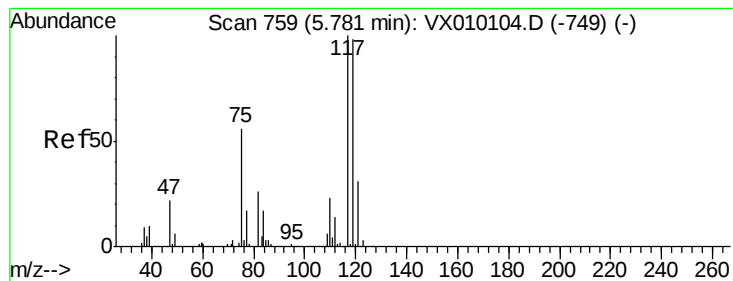
#36
1,1-Dichloropropene
Concen: 4.986 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.13 min
Lab File: VX010259.D
Acq: 12 Jun 2019 18:31

Tgt Ion: 75 Resp: 19535
Ion Ratio Lower Upper
75 100
110 9.4 16.7 50.1#
77 0.6 25.0 37.4#



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: 6.085 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX010259.D

Acq: 12 Jun 2019 18:31

Instrument :

MSVOA_X

ClientSampleId :

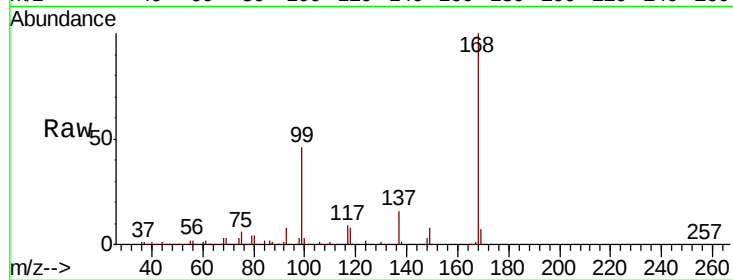
Tot Ion:117 Resp: 26986

Ion Ratio Lower Upper

117 100

119 4.7 77.3 115.9#

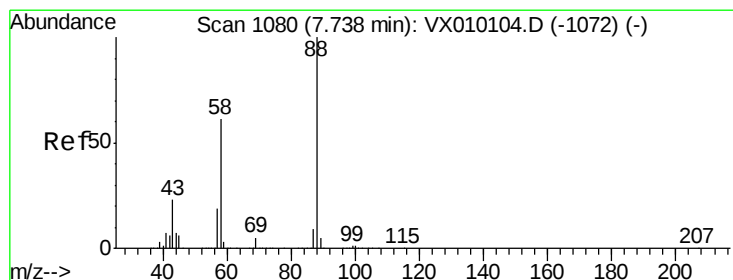
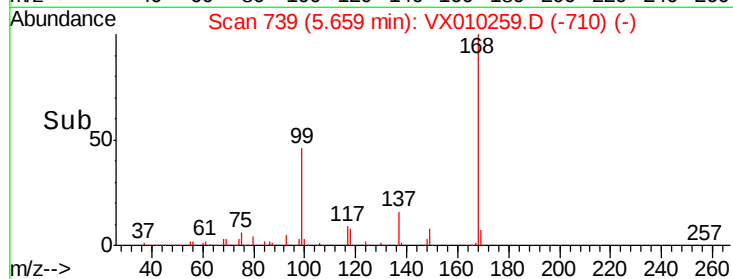
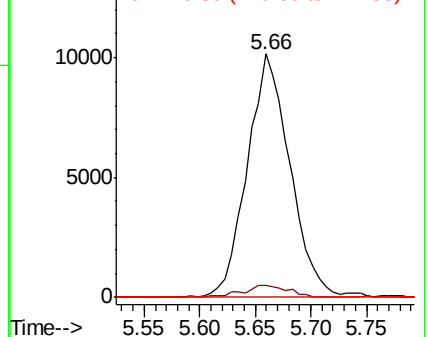
121 0.0 25.4 38.0#



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: 0.220 ug/l

RT: 7.66 min Scan# 1067

Delta R.T. -0.08 min

Lab File: VX010259.D

Acq: 12 Jun 2019 18:31

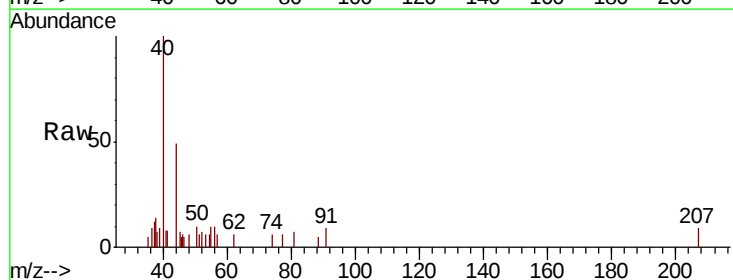
Tgt Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 1505.0 30.2 45.4#

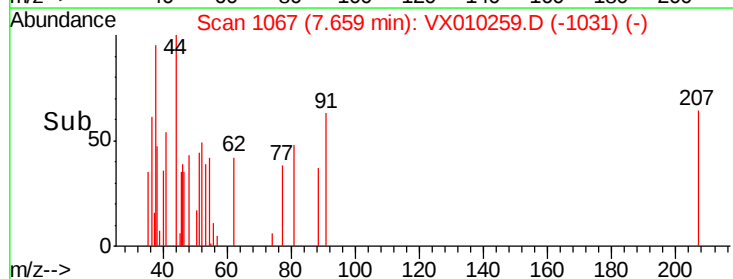
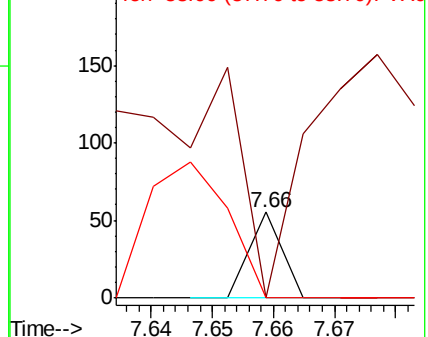
58 400.0 64.0 96.0#

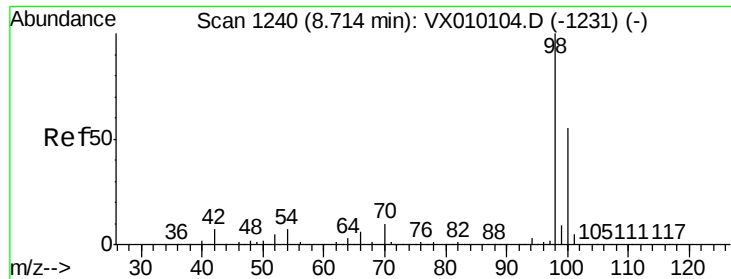


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.594 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010259.D

Acq: 12 Jun 2019 18:31

Instrument :

MSVOA_X

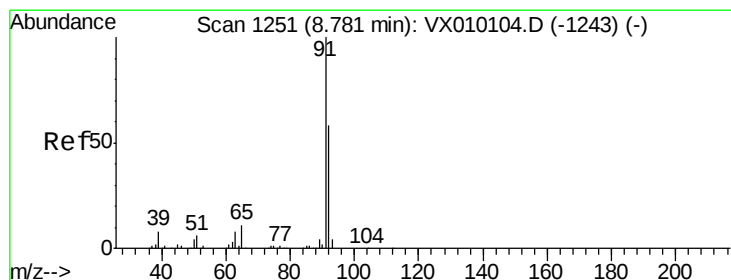
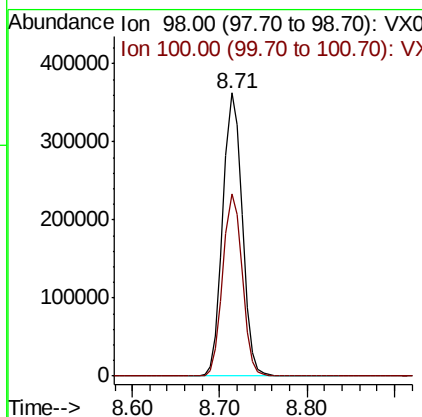
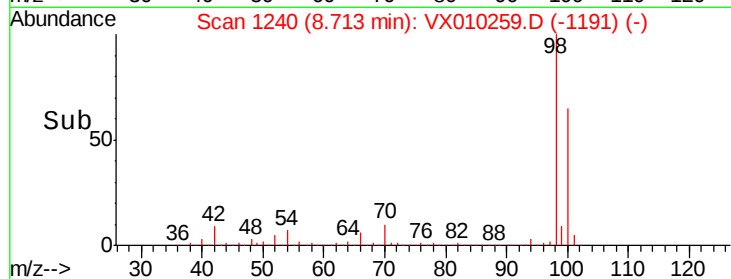
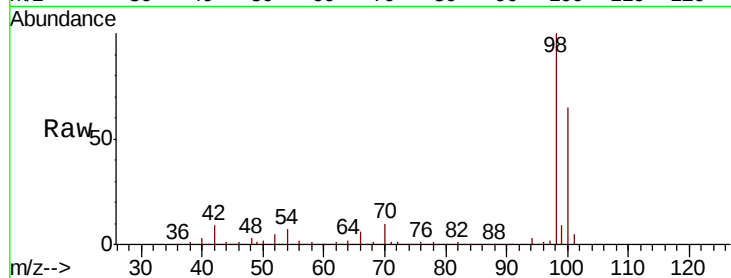
ClientSampleId :

Tot Ion: 98 Resp: 561720

Ion Ratio Lower Upper

98 100

100 64.2 51.5 77.3



#52

Toluene

Concen: 0.584 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.01 min

Lab File: VX010259.D

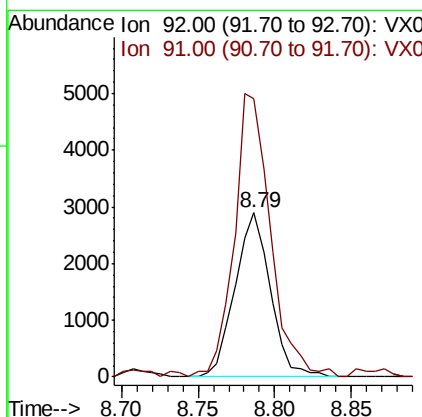
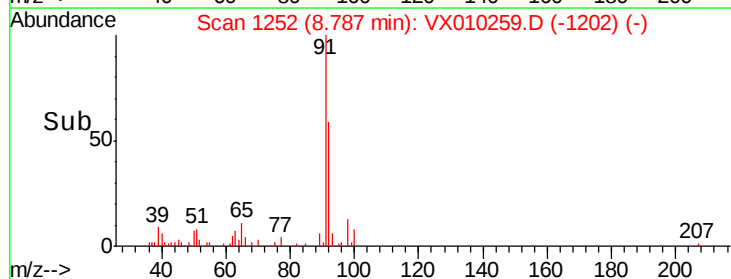
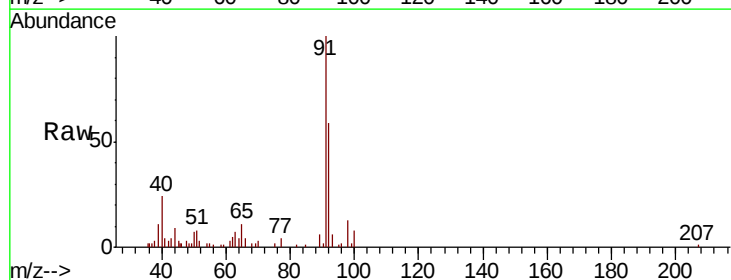
Acq: 12 Jun 2019 18:31

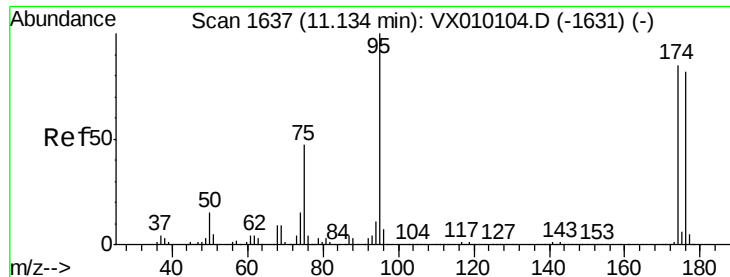
Tgt Ion: 92 Resp: 4648

Ion Ratio Lower Upper

92 100

91 176.5 139.9 209.9





#62

4-Bromofluorobenzene

Concen: 45.803 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010259.D

Acq: 12 Jun 2019 18:31

Instrument :

MSVOA_X

ClientSampleId :

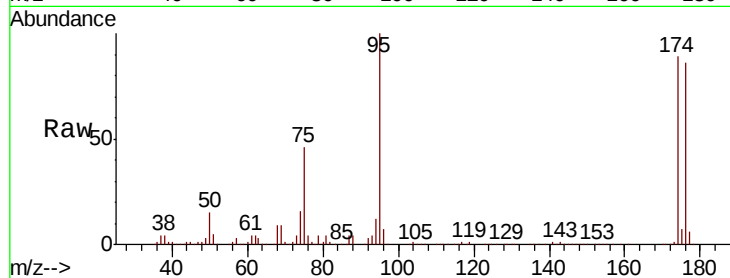
Tot Ion: 95 Resp: 189914

Ion Ratio Lower Upper

95 100

174 94.1 0.0 160.4

176 91.4 0.0 154.6



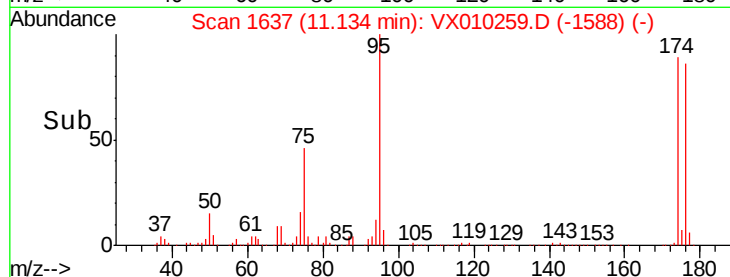
Abundance Ion 94.90 (94.60 to 95.60): VX010104.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX010104.D (-1631) (-)

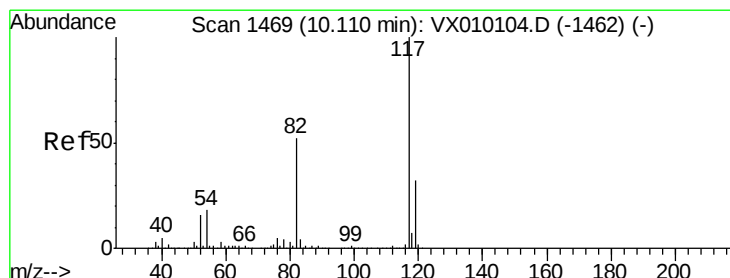
Ion 175.80 (175.50 to 176.50): VX010104.D (-1631) (-)

11.13

11.10 11.20



Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX010259.D

Acq: 12 Jun 2019 18:31

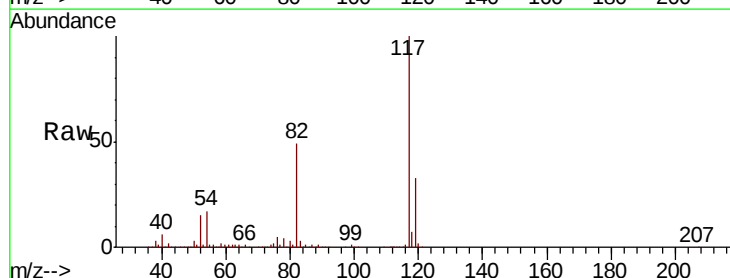
Tgt Ion: 117 Resp: 429077

Ion Ratio Lower Upper

117 100

82 49.3 49.2 73.8

119 32.6 25.2 37.8



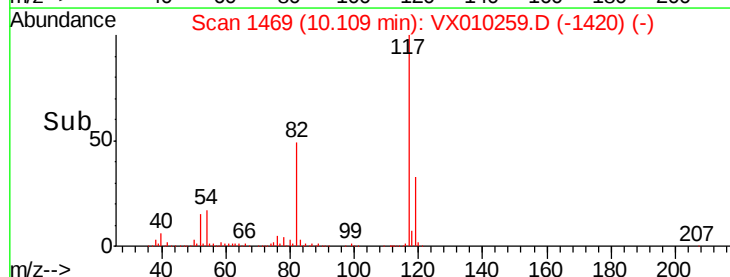
Abundance Ion 116.90 (116.60 to 117.60): VX010104.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX010104.D (-1462) (-)

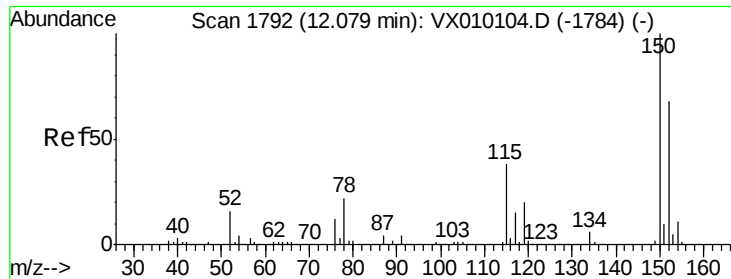
Ion 118.90 (118.60 to 119.60): VX010104.D (-1462) (-)

10.11

10.00 10.20



Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX010259.D

Acq: 12 Jun 2019 18:31

Instrument :

MSVOA_X

ClientSampleId :

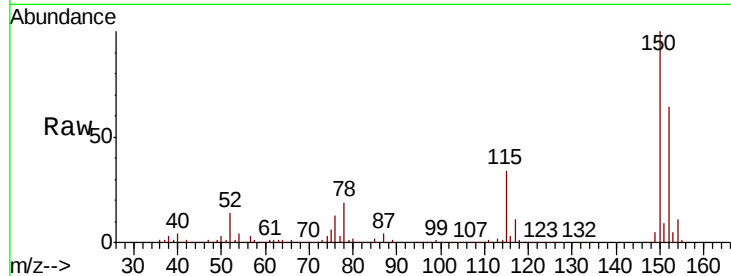
Tot Ion:152 Resp: 198242

Ion Ratio Lower Upper

152 100

115 54.4 41.4 124.2

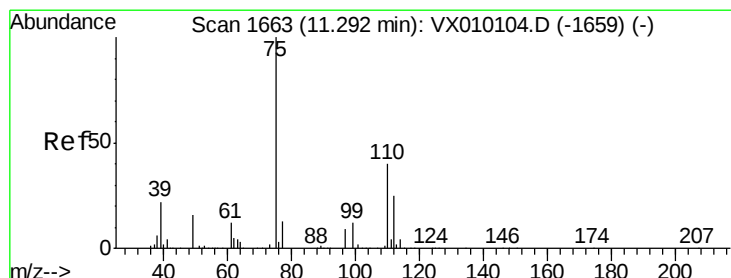
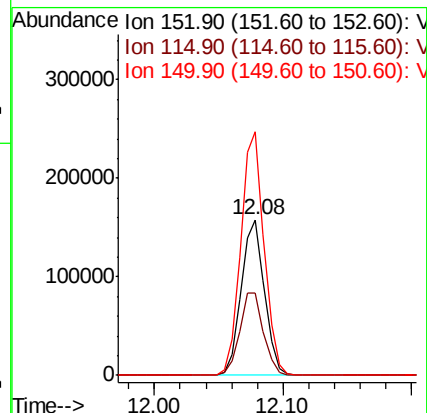
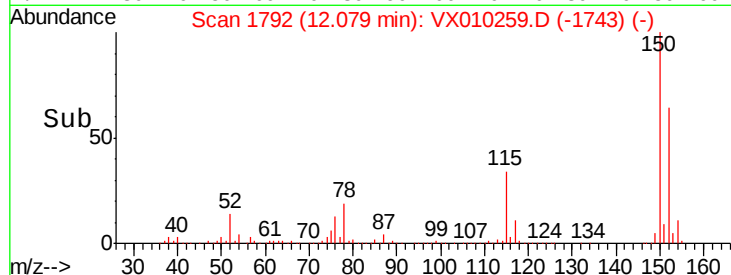
150 156.0 0.0 345.2



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: 21.695 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010259.D

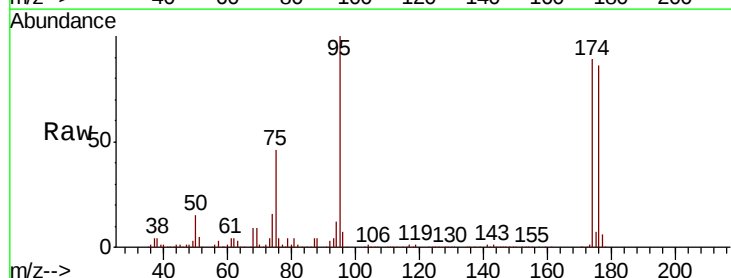
Acq: 12 Jun 2019 18:31

Tgt Ion: 75 Resp: 86026

Ion Ratio Lower Upper

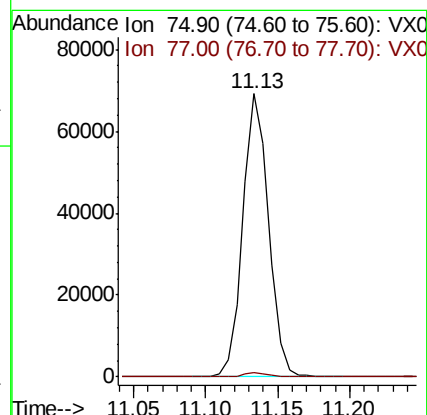
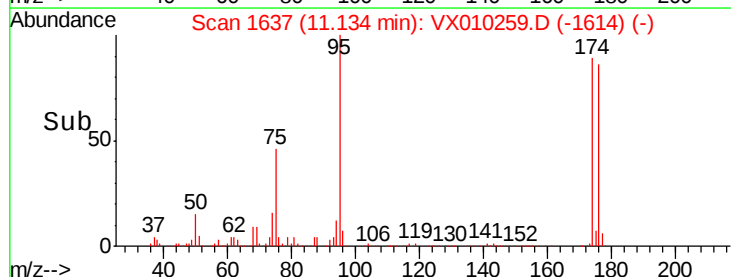
75 100

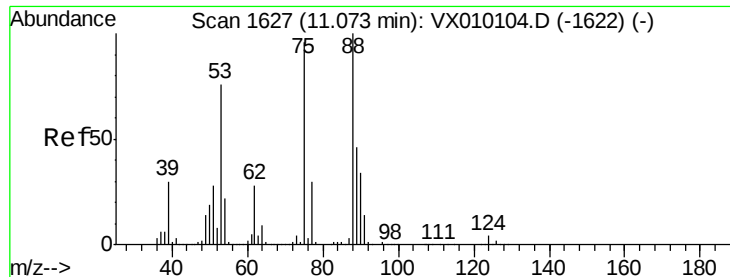
77 1.5 22.1 66.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

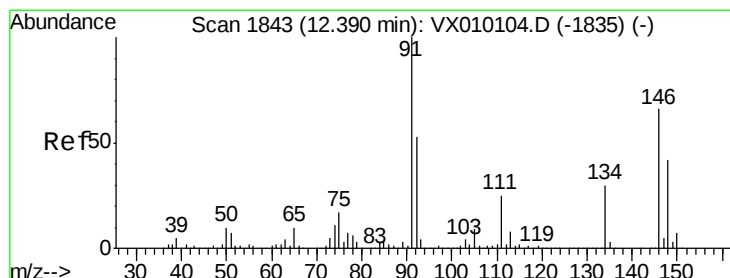
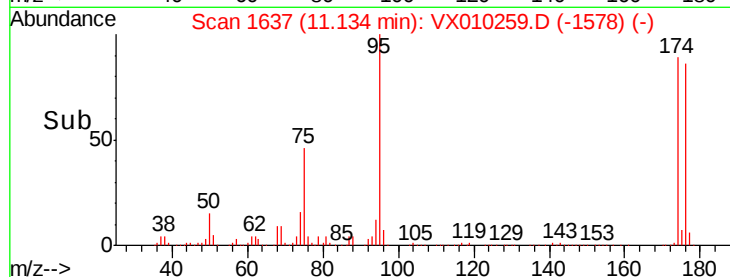
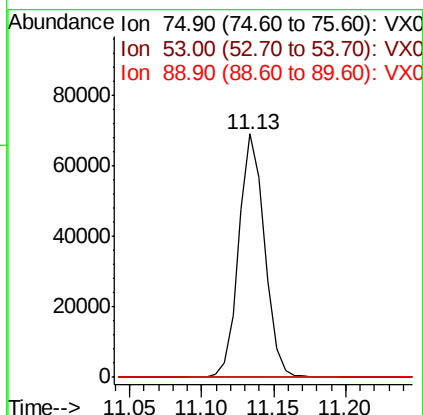
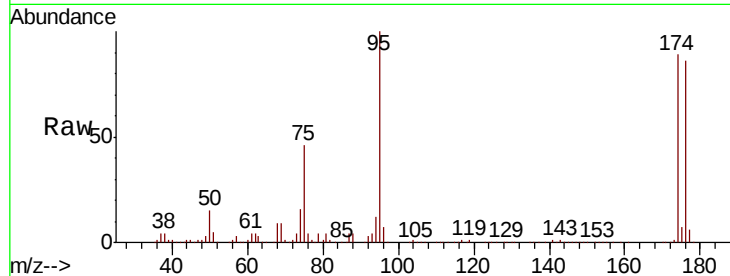




#81
trans-1,4-Dichloro-2-butene
Concen: 47.934 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX010259.D
Acq: 12 Jun 2019 18:31

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 75 Resp: 86026
Ion Ratio Lower Upper
75 100
53 0.1 79.8 119.6#
89 0.0 34.2 51.4#



#91
1,2-Dichlorobenzene
Concen: 0.286 ug/l
RT: 12.39 min Scan# 1843
Delta R.T. -0.00 min
Lab File: VX010259.D
Acq: 12 Jun 2019 18:31

Tgt Ion: 146 Resp: 1866
Ion Ratio Lower Upper
146 100
111 48.6 21.1 63.1
148 70.7 32.3 96.8

