

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061419\
 Data File : VX010304.D
 Acq On : 14 Jun 2019 16:39
 Operator : JC/SP
 Sample : K3315-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE104D1-20190607

Quant Time: Jun 15 01:22:26 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	5.67	168	314312	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	479843	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	431511	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	201243	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	141703	46.19	ug/l	0.00
Spiked Amount			Recovery	=	92.38%	
35) Dibromofluoromethane	5.50	113	144763	48.91	ug/l	0.00
Spiked Amount			Recovery	=	97.82%	
50) Toluene-d8	8.71	98	562992	50.75	ug/l	0.00
Spiked Amount			Recovery	=	101.50%	
62) 4-Bromofluorobenzene	11.13	95	190282	45.93	ug/l	0.00
Spiked Amount			Recovery	=	91.86%	

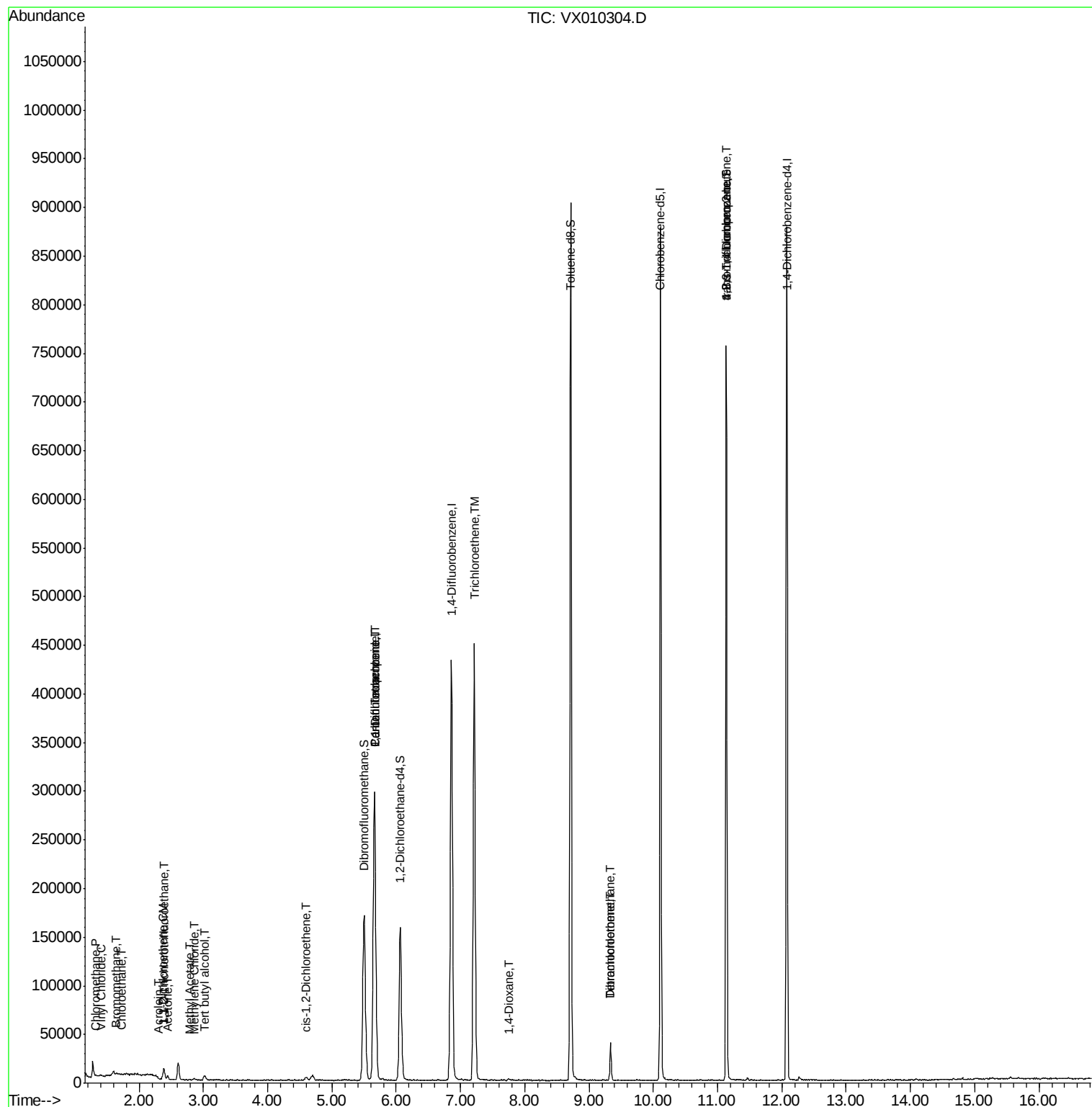
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	584	0.203	ug/l #	75
4) Vinyl Chloride	1.41	62	651	0.241	ug/l	98
5) Bromomethane	1.65	94	603	0.592	ug/l #	56
6) Chloroethane	1.72	64	395	0.290	ug/l #	43
9) 1,1,2-Trichlorotrifluoroet	2.39	101	3710	1.342	ug/l	89
11) Tert butyl alcohol	3.01	59	3023	4.022	ug/l #	83
12) 1,1-Dichloroethene	2.37	96	898	0.318	ug/l #	67
13) Acrolein	2.31	56	88	0.642	ug/l #	14
16) Acetone	2.45	43	3721	2.579	ug/l #	81
18) Methyl Acetate	2.78	43	824	0.260	ug/l #	82
20) Methylene Chloride	2.85	84	640	0.202	ug/l #	71
27) cis-1,2-Dichloroethene	4.60	96	2060	0.593	ug/l	70
36) 1,1-Dichloropropene	5.66	75	19306	4.932	ug/l #	52
38) Carbon Tetrachloride	5.67	117	28198	6.364	ug/l #	15
44) Trichloroethene	7.21	130	182309	49.963	ug/l	88
49) 1,4-Dioxane	7.75	88	1081	11.904	ug/l #	79
60) Dibromochloromethane	9.34	129	7016	1.820	ug/l #	11
64) Tetrachloroethene	9.34	164	7931	2.475	ug/l	92
76) 1,2,3-Trichloropropane	11.13	75	87636	21.772	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	87636	48.103	ug/l #	10

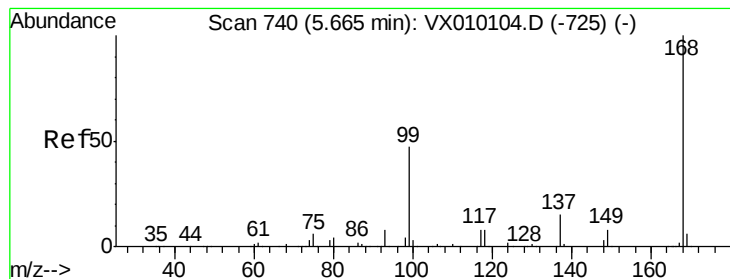
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Jun 08 02:12:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX010304.D

Acq: 14 Jun 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

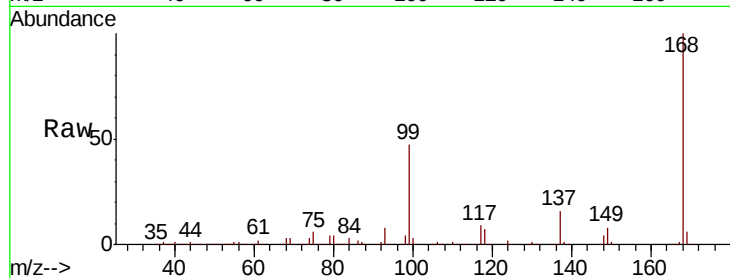
RE104D1-20190607

Tot Ion:168 Resp: 314312

Ion Ratio Lower Upper

168 100

99 46.7 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

60000

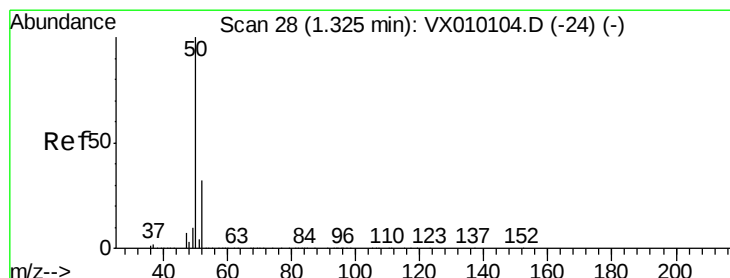
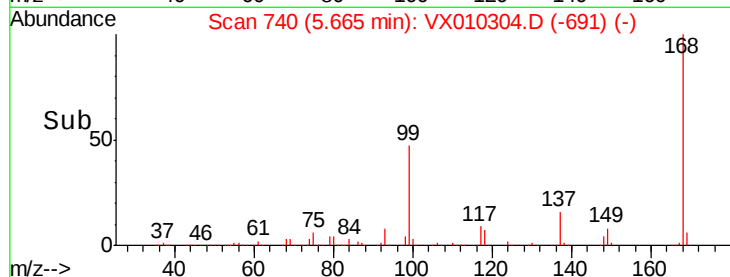
40000

20000

0

Time-->

5.60 5.70 5.80



#3

Chloromethane

Concen: 0.203 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX010304.D

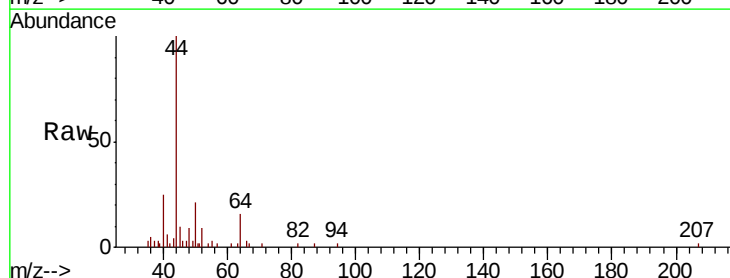
Acq: 14 Jun 2019 16:39

Tgt Ion: 50 Resp: 584

Ion Ratio Lower Upper

50 100

52 46.5 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

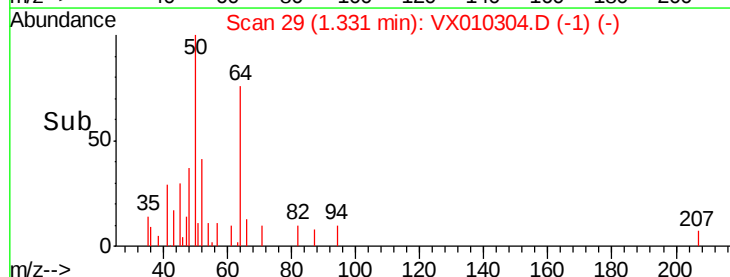
400

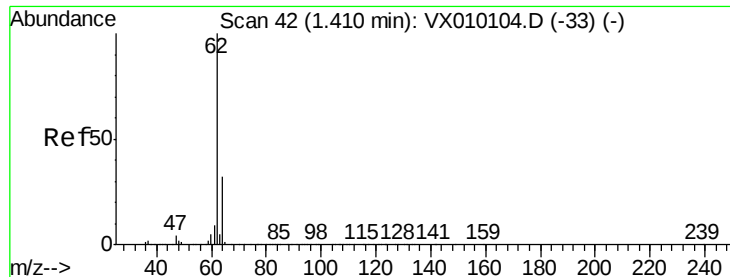
200

0

Time-->

1.30 1.32 1.34 1.36





#4

Vinyl Chloride

Concen: 0.241 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX010304.D

Acq: 14 Jun 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

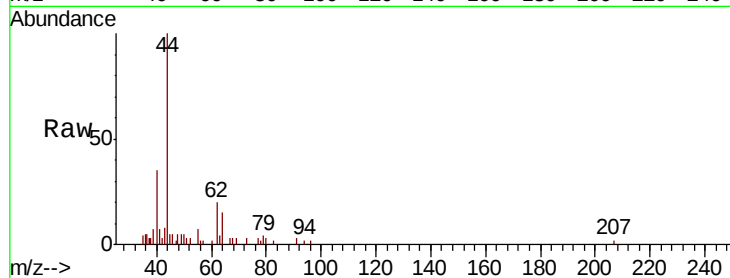
RE104D1-20190607

Tot Ion: 62 Resp: 651

Ion Ratio Lower Upper

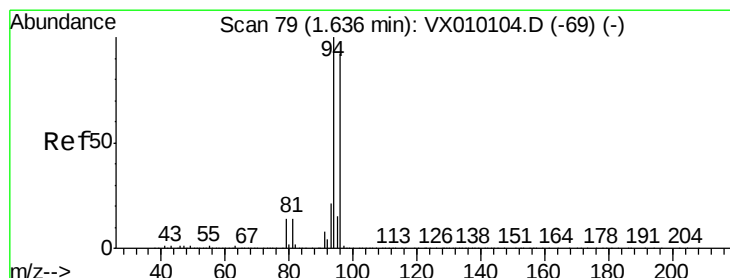
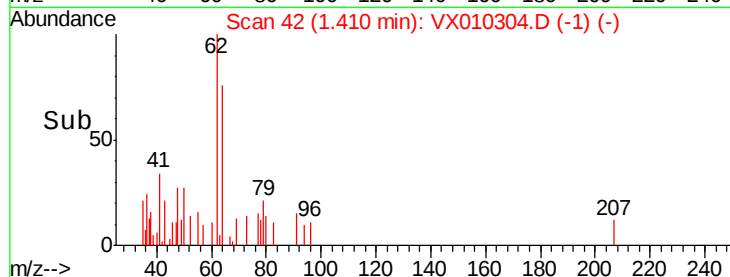
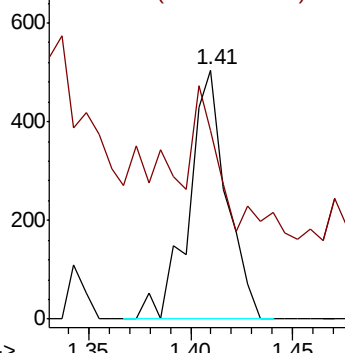
62 100

64 33.1 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.592 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX010304.D

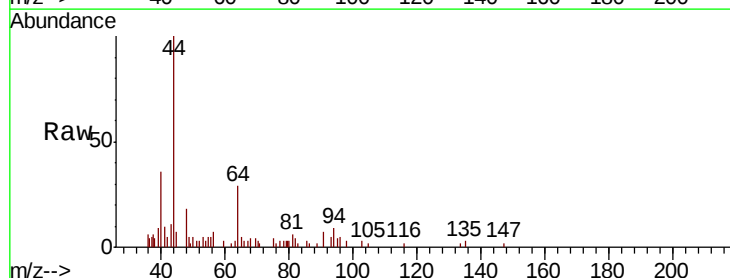
Acq: 14 Jun 2019 16:39

Tgt Ion: 94 Resp: 603

Ion Ratio Lower Upper

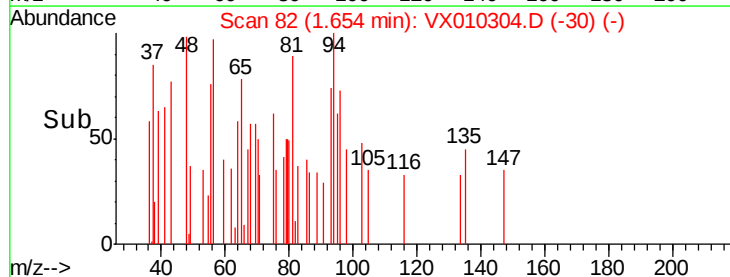
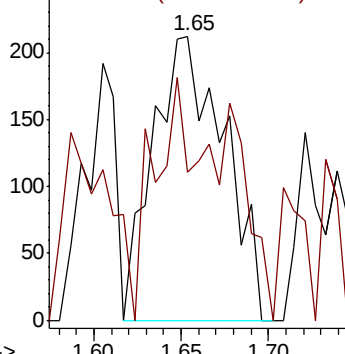
94 100

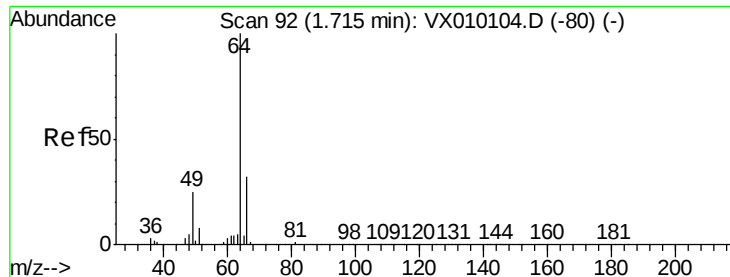
96 52.4 76.2 114.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.290 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX010304.D

Acq: 14 Jun 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

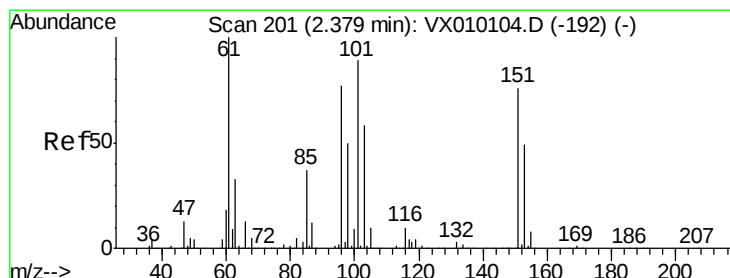
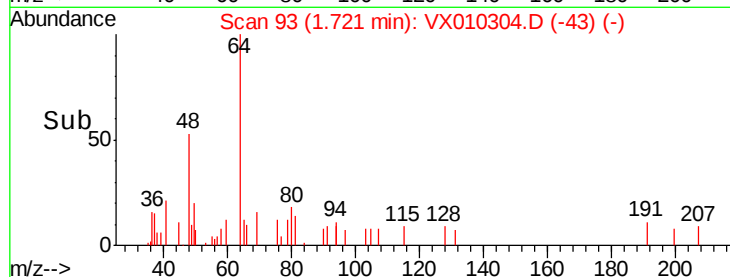
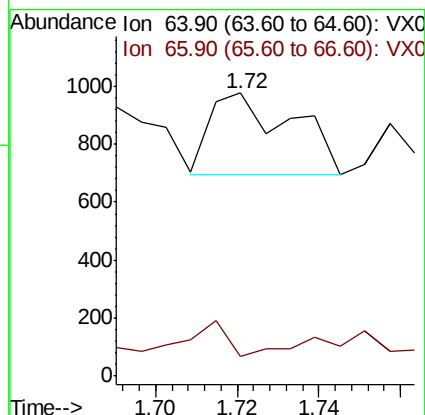
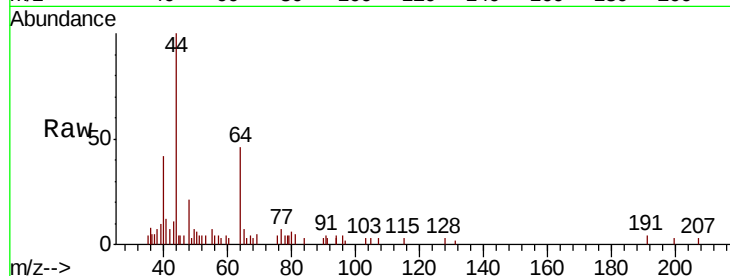
RE104D1-20190607

Tot Ion: 64 Resp: 395

Ion Ratio Lower Upper

64 100

66 0.0 25.1 37.7#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.342 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.01 min

Lab File: VX010304.D

Acq: 14 Jun 2019 16:39

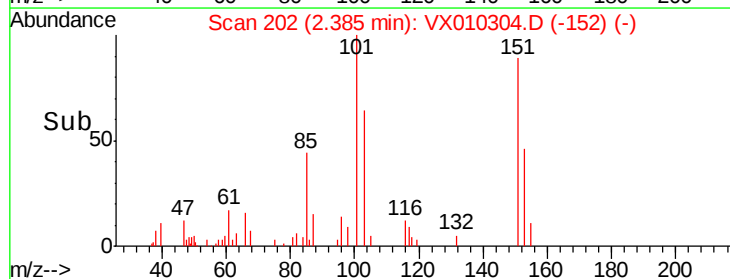
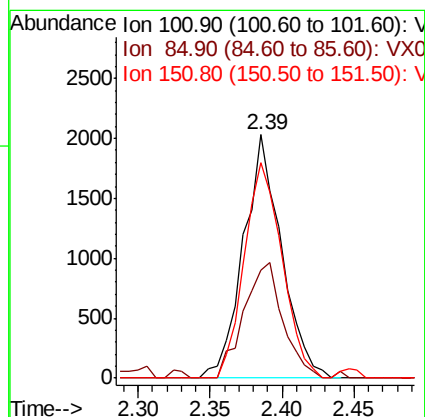
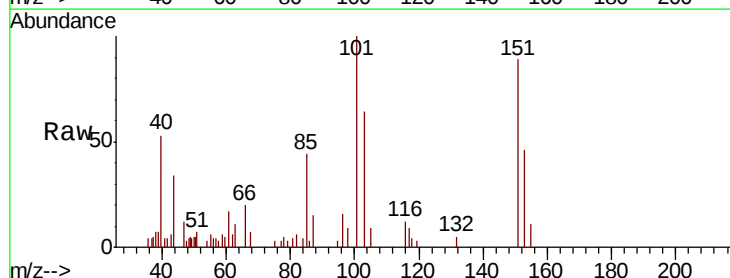
Tgt Ion: 101 Resp: 3710

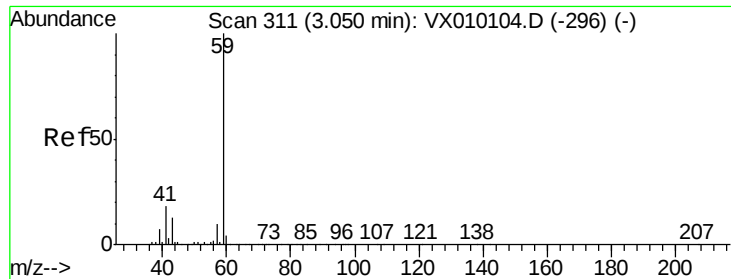
Ion Ratio Lower Upper

101 100

85 48.7 35.2 52.8

151 88.1 61.9 92.9



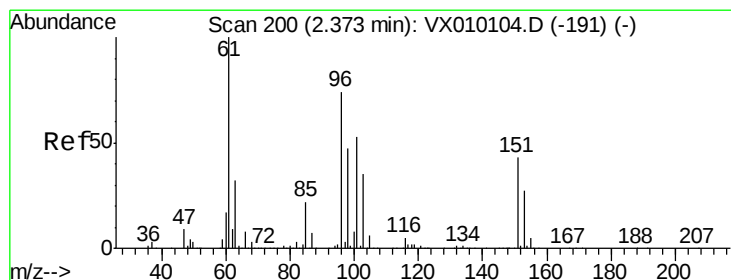
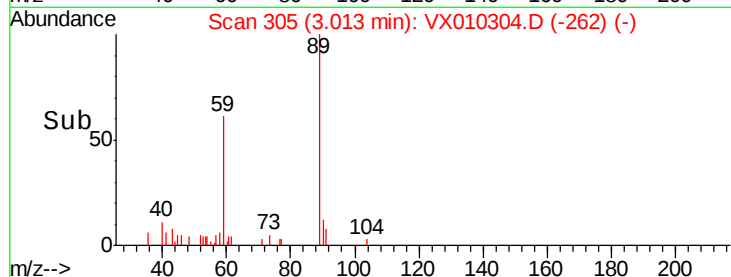
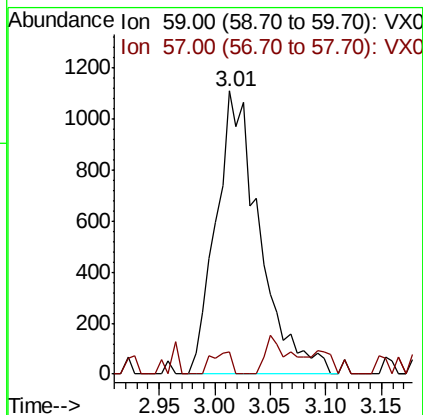
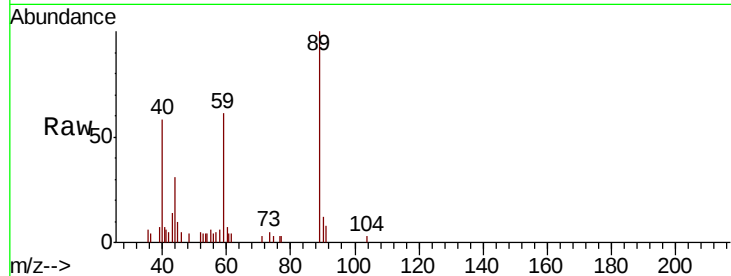


#11

Tert butyl alcohol
Concen: 4.022 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX010304.D
Acq: 14 Jun 2019 16:39

Instrument :
MSVOA_X
ClientSampleId :
RE104D1-20190607

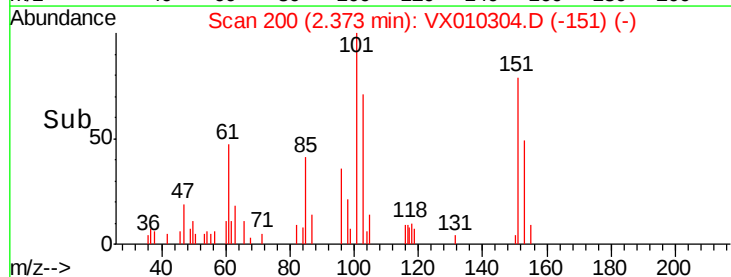
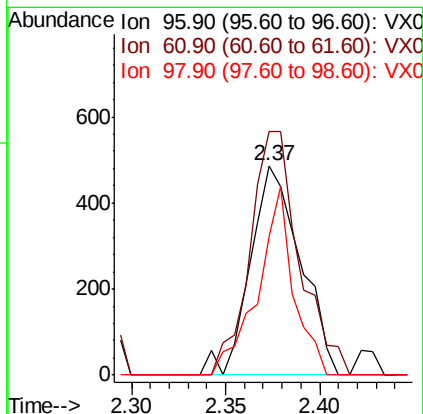
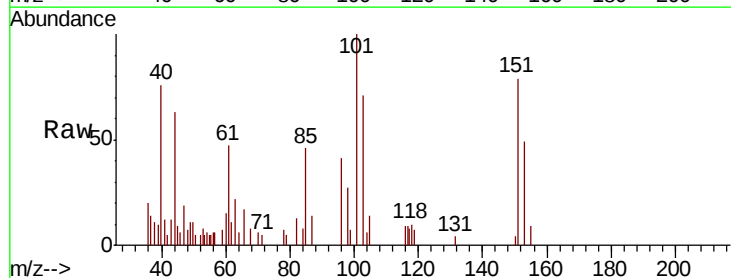
Tot Ion: 59 Resp: 3023
Ion Ratio Lower Upper
59 100
57 3.7 8.2 12.2#

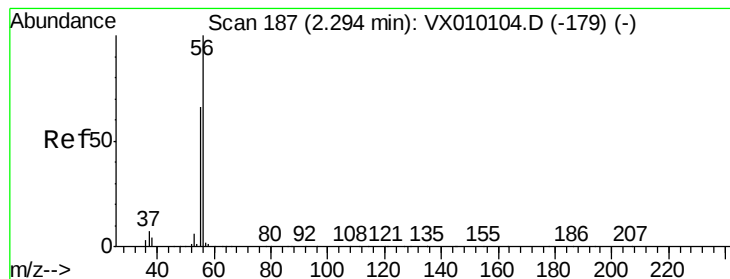


#12

1,1-Dichloroethene
Concen: 0.318 ug/l
RT: 2.37 min Scan# 200
Delta R.T. -0.00 min
Lab File: VX010304.D
Acq: 14 Jun 2019 16:39

Tgt Ion: 96 Resp: 898
Ion Ratio Lower Upper
96 100
61 116.2 140.7 211.1#
98 66.1 50.1 75.1





#13

Acrolein

Concen: 0.642 ug/l

RT: 2.31 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX010304.D

Acq: 14 Jun 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

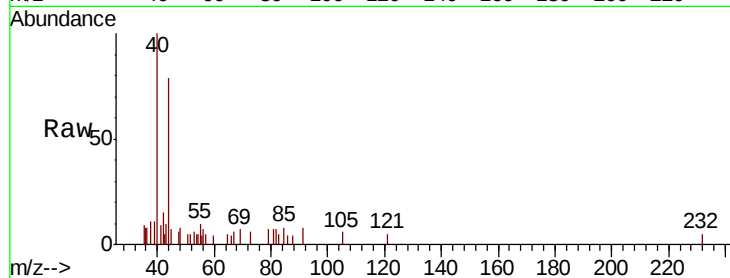
RE104D1-20190607

Tot Ion: 56 Resp: 88

Ion Ratio Lower Upper

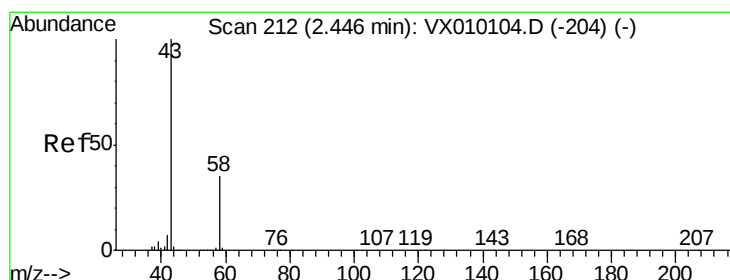
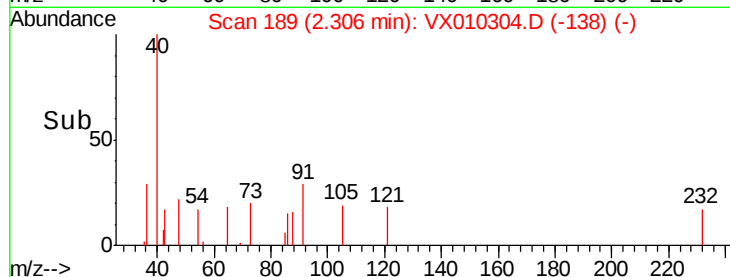
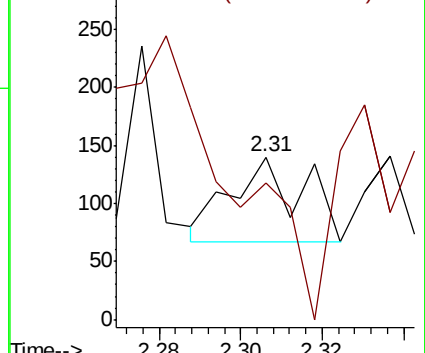
56 100

55 0.0 57.0 85.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 2.579 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX010304.D

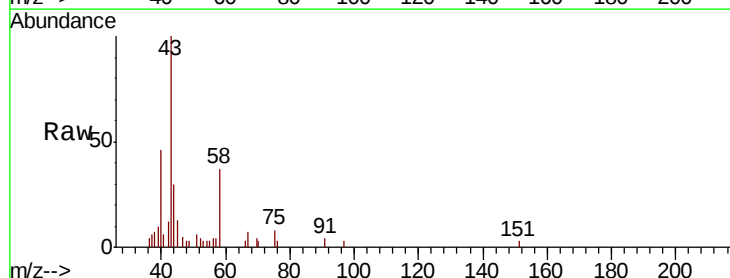
Acq: 14 Jun 2019 16:39

Tgt Ion: 43 Resp: 3721

Ion Ratio Lower Upper

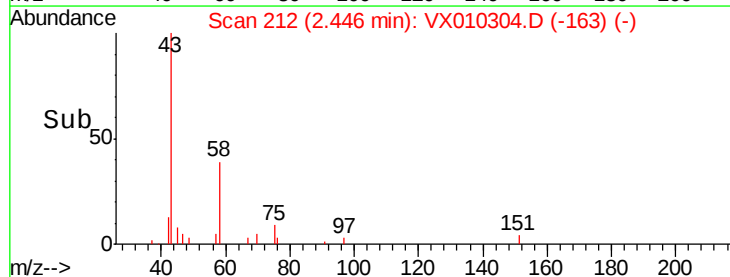
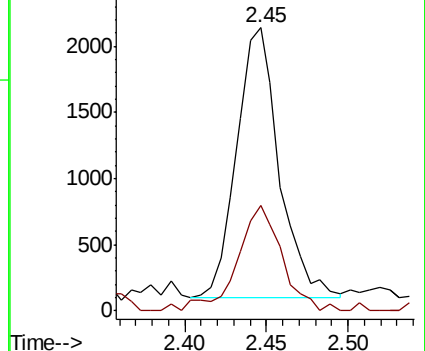
43 100

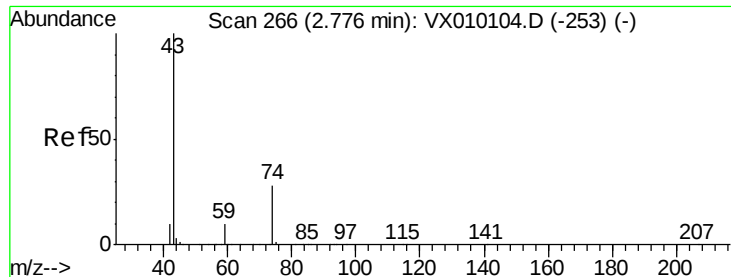
58 39.0 23.2 34.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#18

Methyl Acetate

Concen: 0.260 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.00 min

Lab File: VX010304.D

Acq: 14 Jun 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

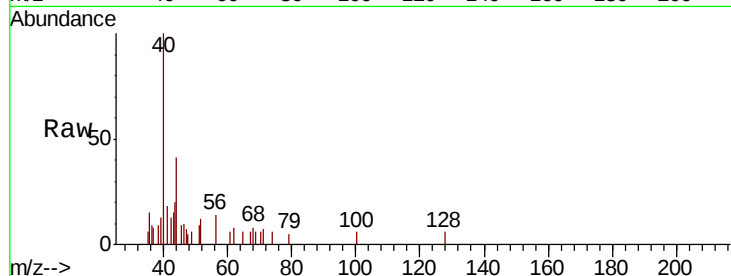
RE104D1-20190607

Tot Ion: 43 Resp: 824

Ion Ratio Lower Upper

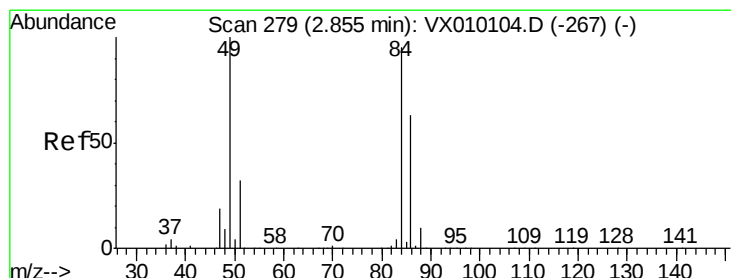
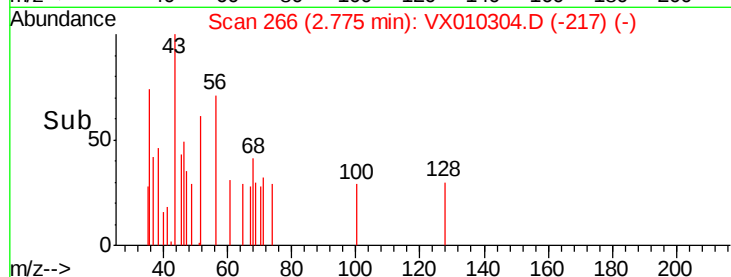
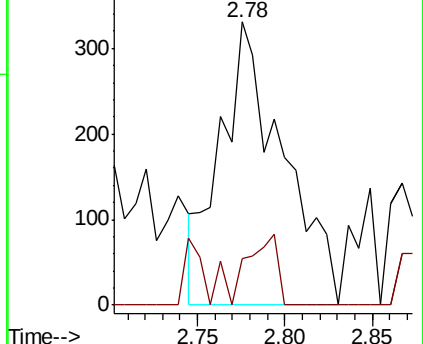
43 100

74 11.7 15.8 23.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



#20

Methylene Chloride

Concen: 0.202 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.00 min

Lab File: VX010304.D

Acq: 14 Jun 2019 16:39

Tgt Ion: 84 Resp: 640

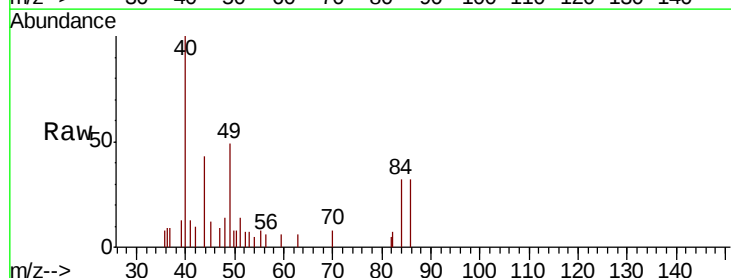
Ion Ratio Lower Upper

84 100

49 118.9 115.8 173.6

51 25.7 34.4 51.6#

86 100.6 49.7 74.5#

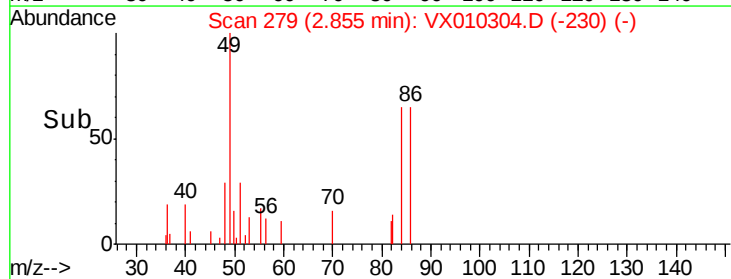
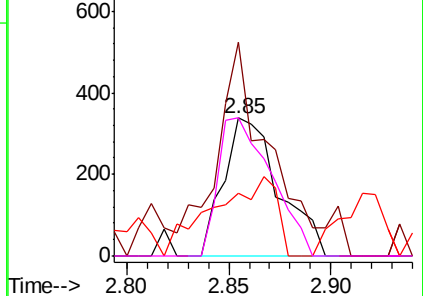


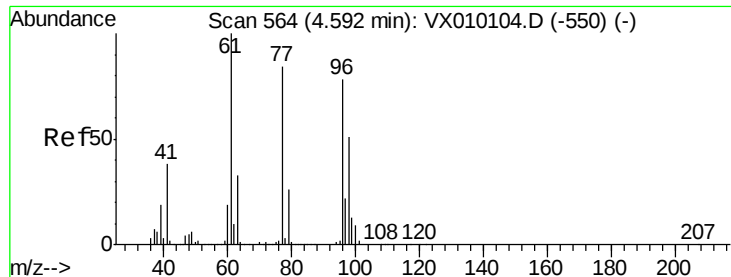
Abundance Ion 83.90 (83.60 to 84.60): VX0

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



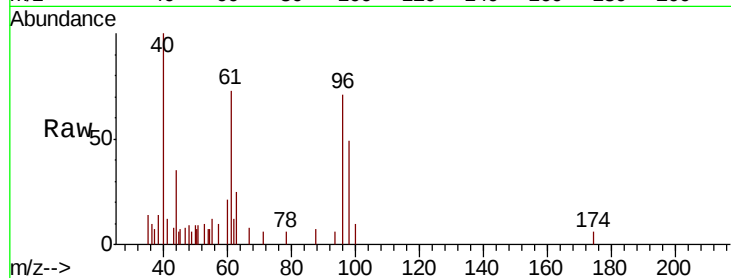


#27

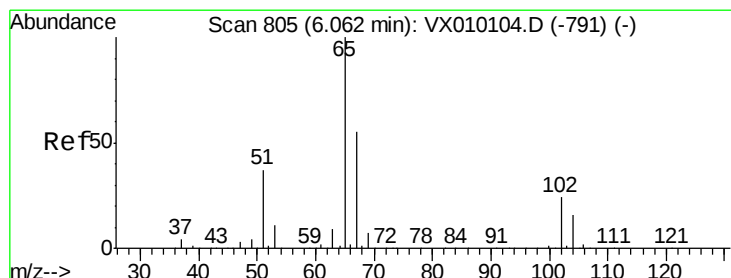
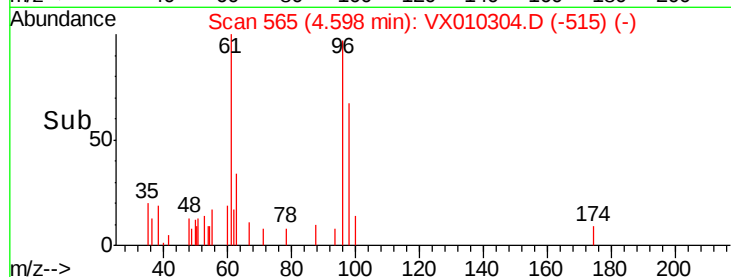
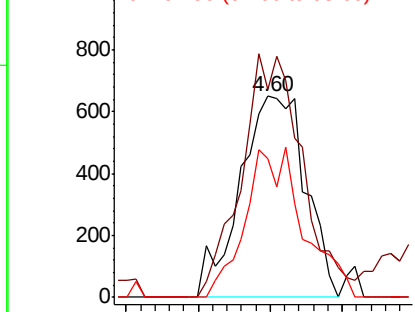
cis-1,2-Dichloroethene
Concen: 0.593 ug/l
RT: 4.60 min Scan# 565
Delta R.T. 0.01 min
Lab File: VX010304.D
Acq: 14 Jun 2019 16:39

Instrument :
MSVOA_X
ClientSampleId :
RE104D1-20190607

Tot Ion: 96 Resp: 2060
Ion Ratio Lower Upper
96 100
61 111.8 0.0 334.0
98 65.0 0.0 131.6



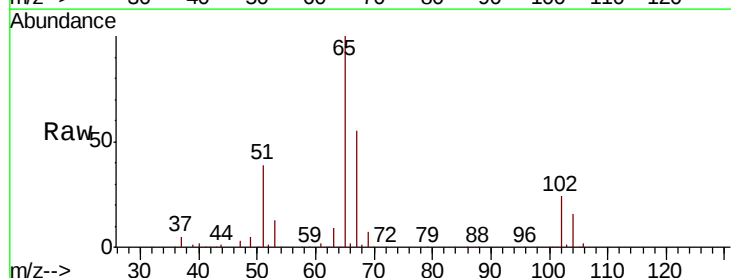
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



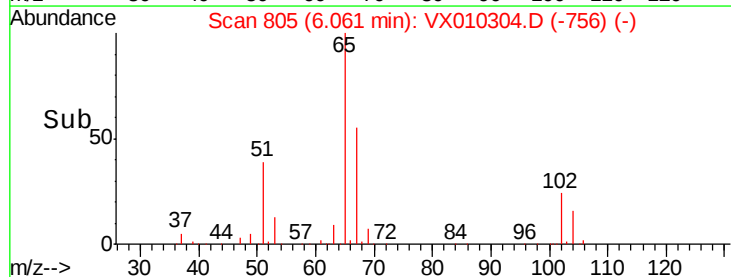
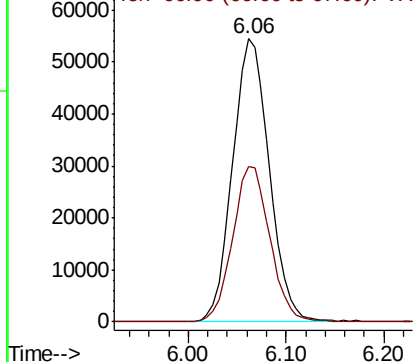
#33

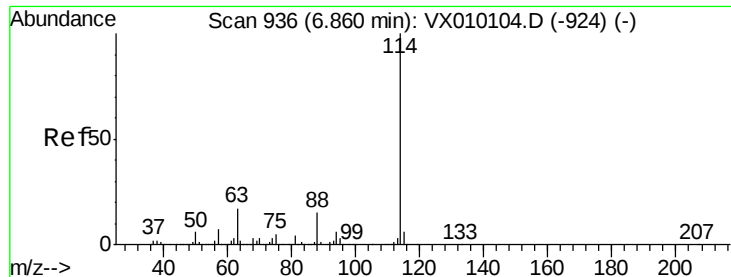
1,2-Dichloroethane-d4
Concen: 46.187 ug/l
RT: 6.06 min Scan# 805
Delta R.T. 0.00 min
Lab File: VX010304.D
Acq: 14 Jun 2019 16:39

Tgt Ion: 65 Resp: 141703
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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX010304.D

Acq: 14 Jun 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

RE104D1-20190607

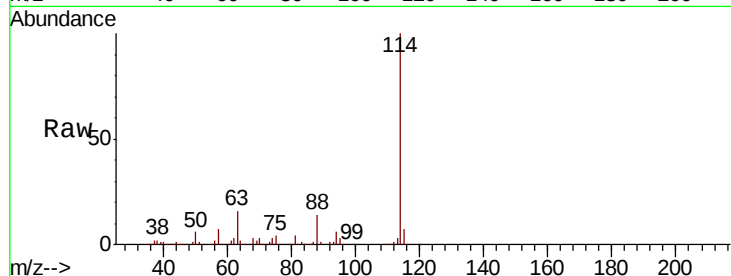
Tot Ion:114 Resp: 479843

Ion Ratio Lower Upper

114 100

63 16.4 0.0 47.4

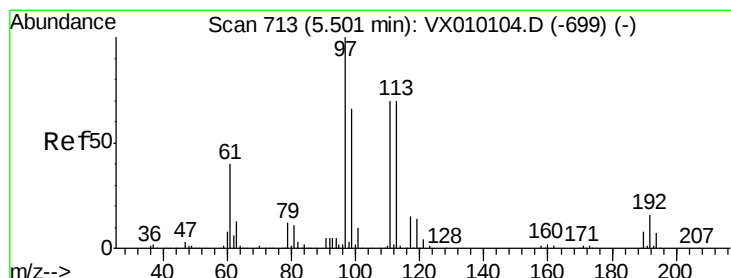
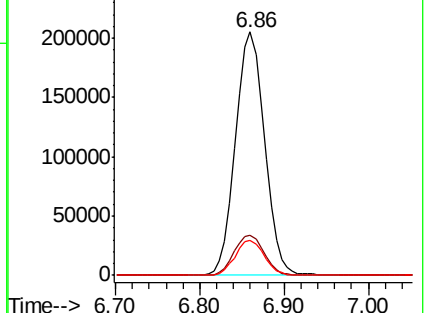
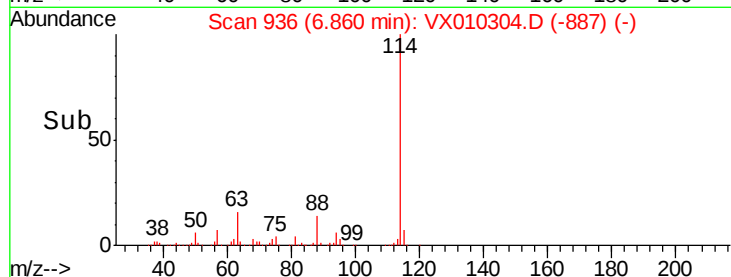
88 14.4 0.0 33.0



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



#35

Dibromofluoromethane

Concen: 48.910 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX010304.D

Acq: 14 Jun 2019 16:39

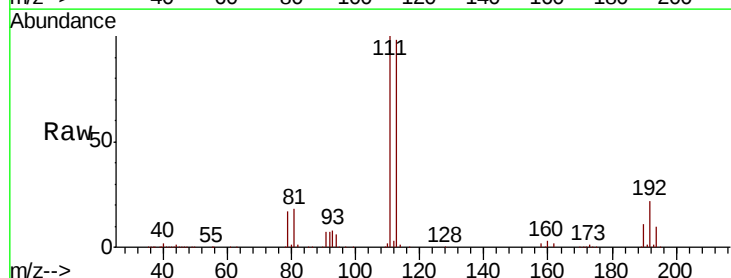
Tgt Ion:113 Resp: 144763

Ion Ratio Lower Upper

113 100

111 101.6 82.2 123.2

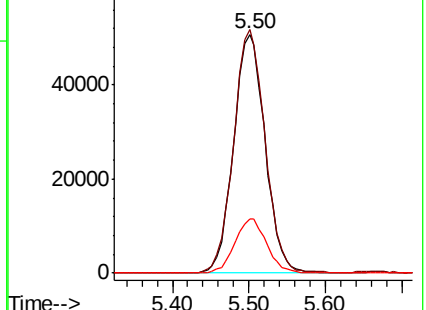
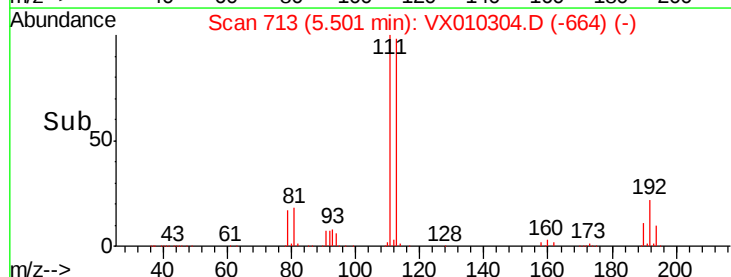
192 22.9 17.1 25.7

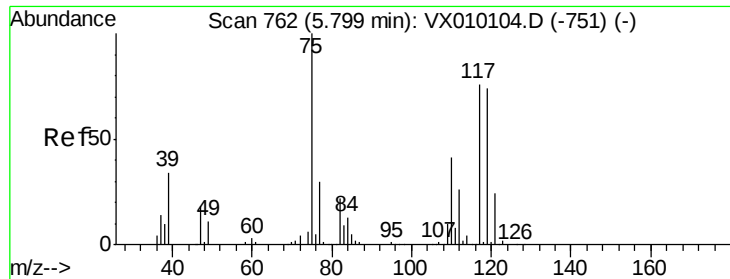


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.932 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX010304.D

Acq: 14 Jun 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

RE104D1-20190607

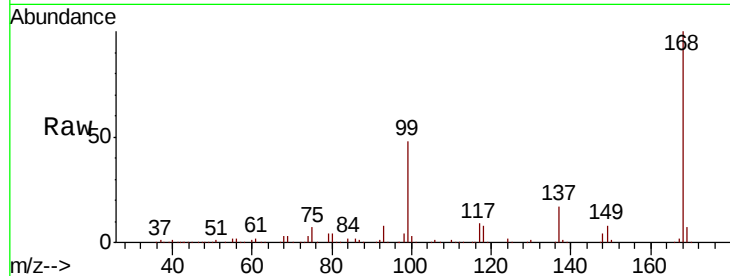
Tot Ion: 75 Resp: 19306

Ion Ratio Lower Upper

75 100

110 10.4 16.7 50.1#

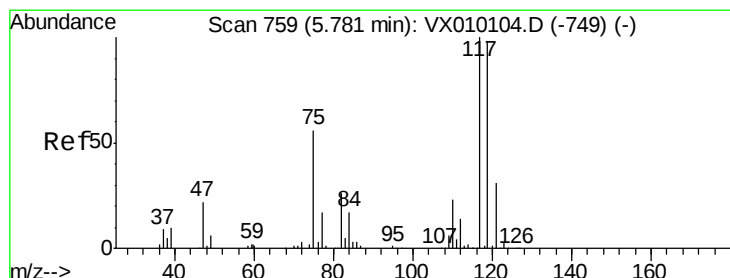
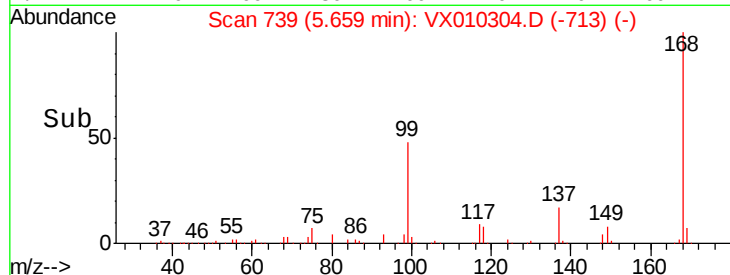
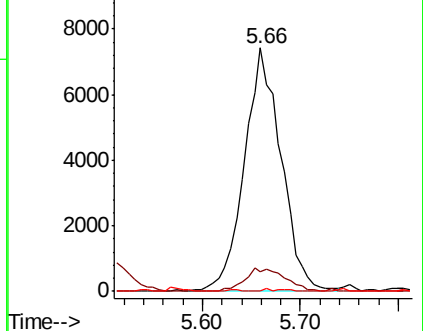
77 0.2 25.0 37.4#



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: 6.364 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX010304.D

Acq: 14 Jun 2019 16:39

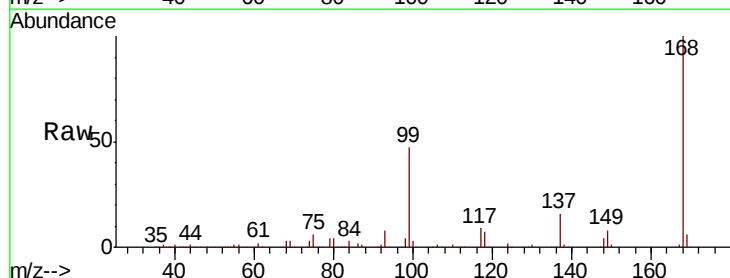
Tgt Ion: 117 Resp: 28198

Ion Ratio Lower Upper

117 100

119 4.8 77.3 115.9#

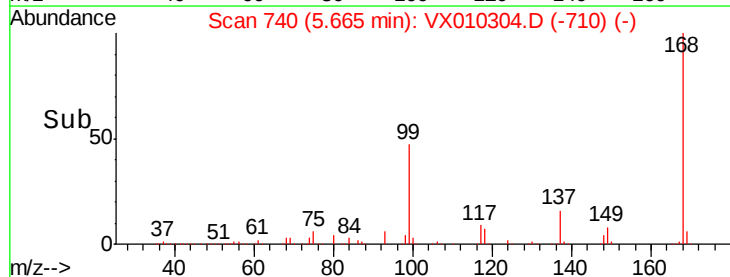
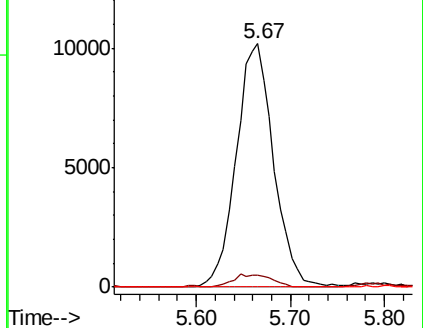
121 0.0 25.4 38.0#

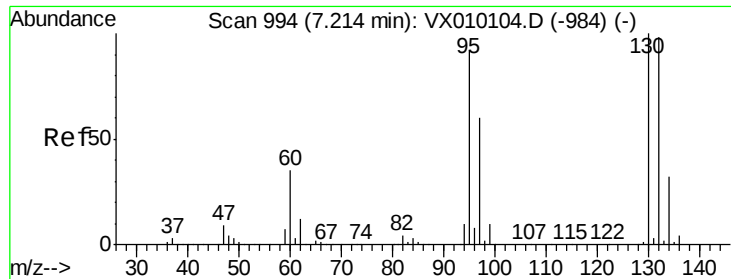


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 49.963 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX010304.D

Acq: 14 Jun 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

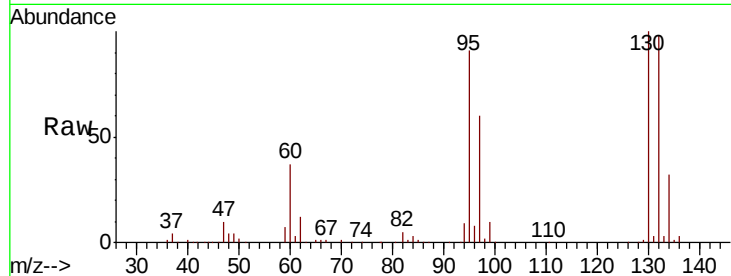
RE104D1-20190607

Tot Ion:130 Resp: 182309

Ion Ratio Lower Upper

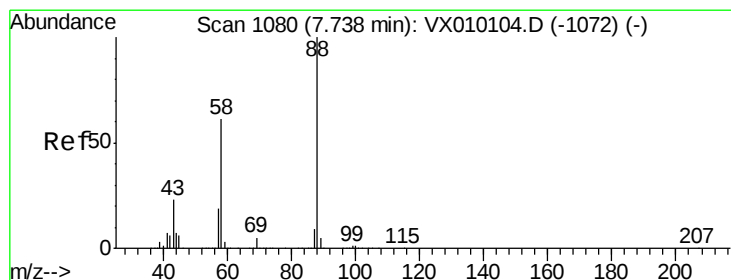
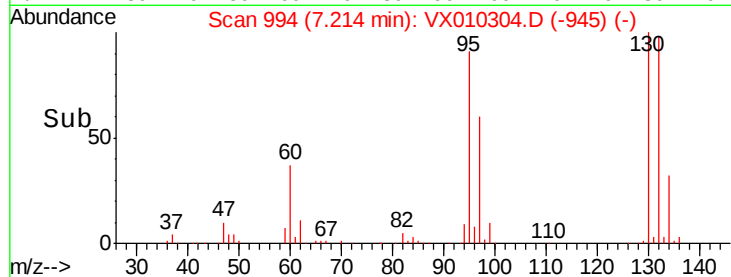
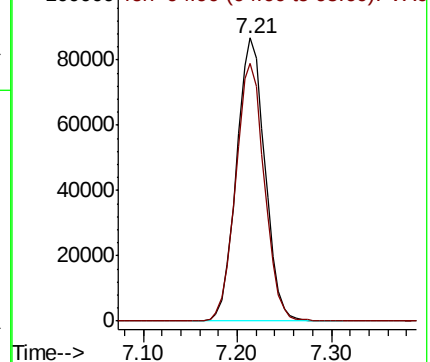
130 100

95 91.2 0.0 207.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 11.904 ug/l

RT: 7.75 min Scan# 1082

Delta R.T. 0.01 min

Lab File: VX010304.D

Acq: 14 Jun 2019 16:39

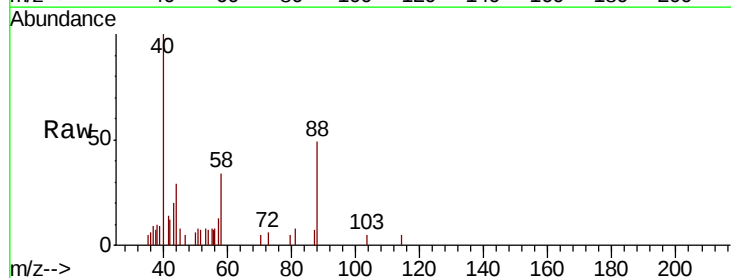
Tgt Ion: 88 Resp: 1081

Ion Ratio Lower Upper

88 100

43 76.5 30.2 45.4#

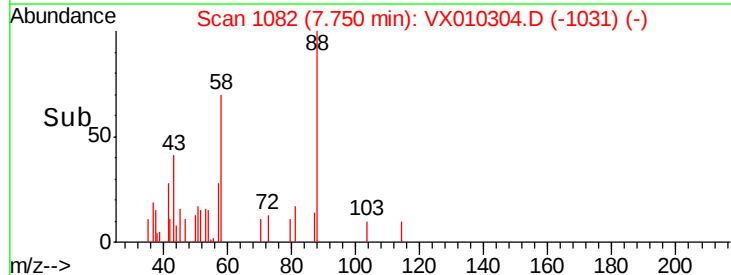
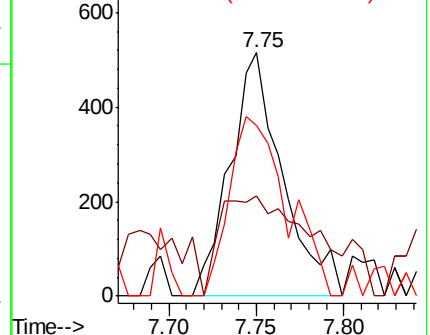
58 80.8 64.0 96.0

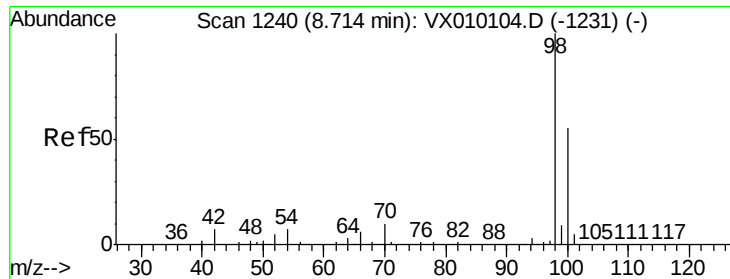


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.753 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010304.D

Acq: 14 Jun 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

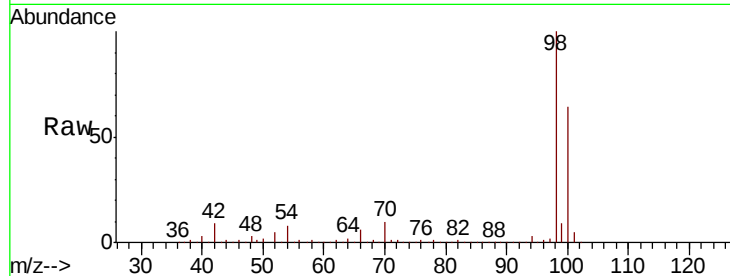
RE104D1-20190607

Tot Ion: 98 Resp: 562992

Ion Ratio Lower Upper

98 100

100 64.3 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

400000

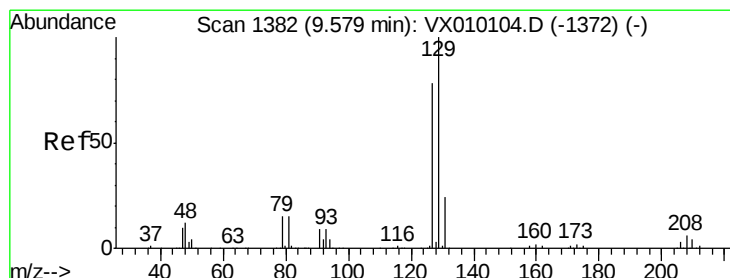
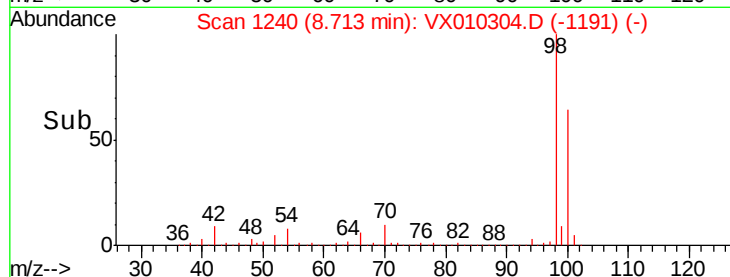
300000

200000

100000

0

Time-->



#60

Dibromochloromethane

Concen: 1.820 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX010304.D

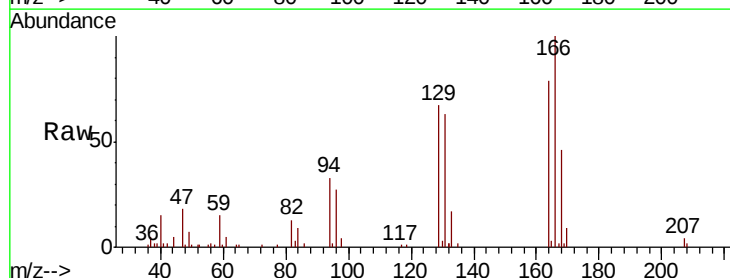
Acq: 14 Jun 2019 16:39

Tgt Ion:129 Resp: 7016

Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.5#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.34

5000

4000

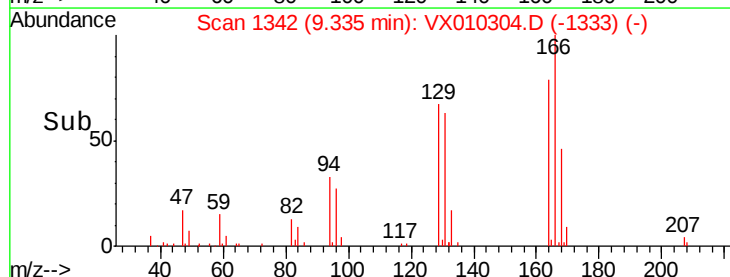
3000

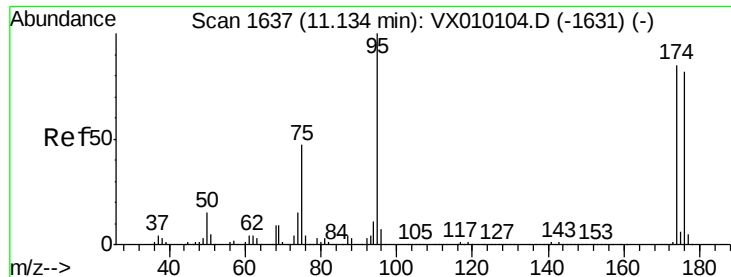
2000

1000

0

Time-->





#62

4-Bromofluorobenzene

Concen: 45.932 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010304.D

Acq: 14 Jun 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

RE104D1-20190607

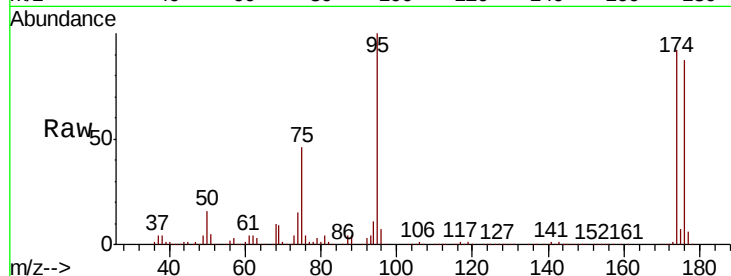
Tot Ion: 95 Resp: 190282

Ion Ratio Lower Upper

95 100

174 95.8 0.0 160.4

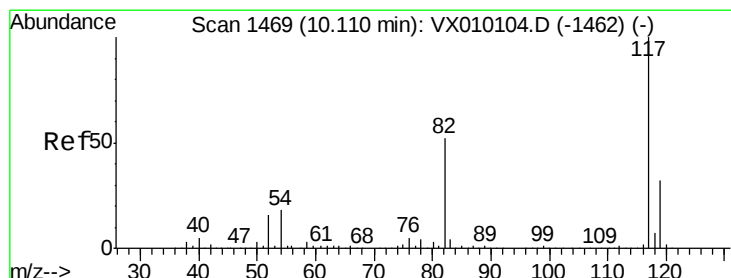
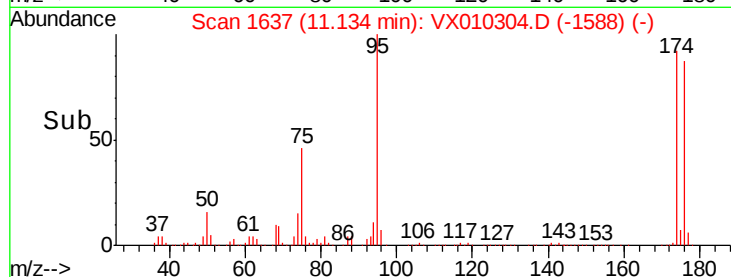
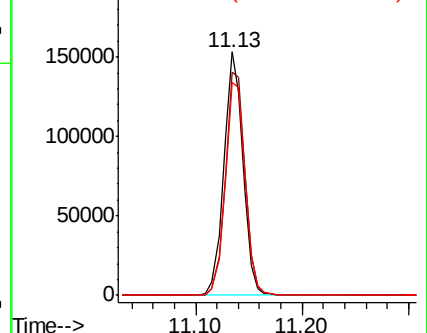
176 91.9 0.0 154.6



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) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX010304.D

Acq: 14 Jun 2019 16:39

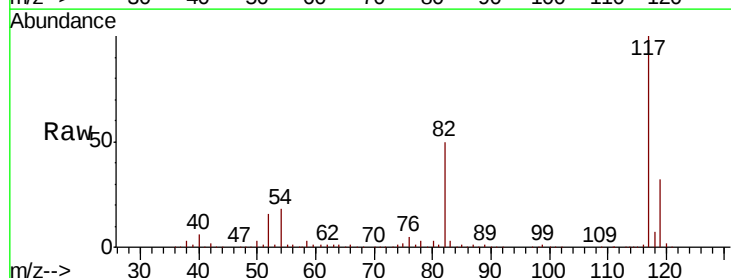
Tgt Ion: 117 Resp: 431511

Ion Ratio Lower Upper

117 100

82 50.3 49.2 73.8

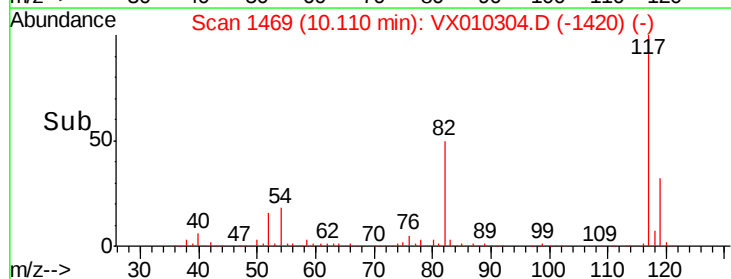
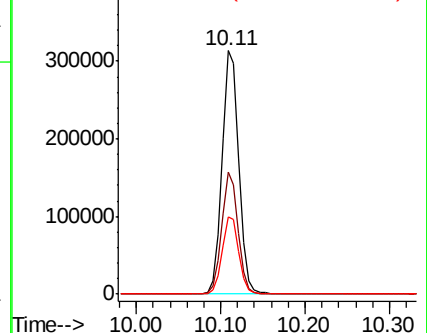
119 31.8 25.2 37.8

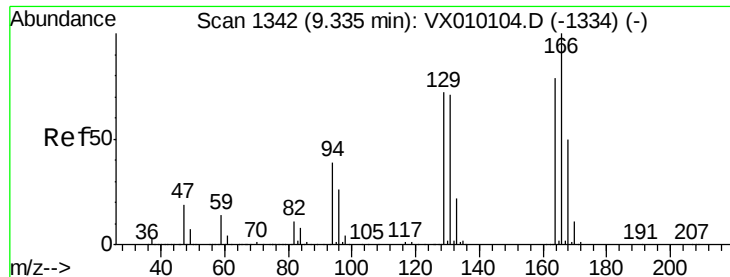


Abundance Ion 116.90 (116.60 to 117.60): VX010104.D (-1462) (-)

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

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





#64

Tetrachloroethene

Concen: 2.475 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX010304.D

Acq: 14 Jun 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

RE104D1-20190607

Tot Ion:164 Resp: 7931

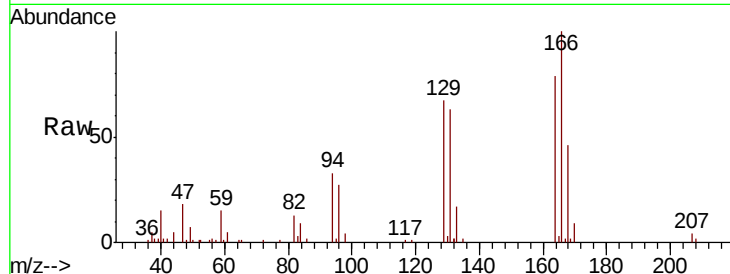
Ion Ratio Lower Upper

164 100

166 125.8 105.0 157.4

129 84.5 75.1 112.7

131 79.7 72.2 108.4



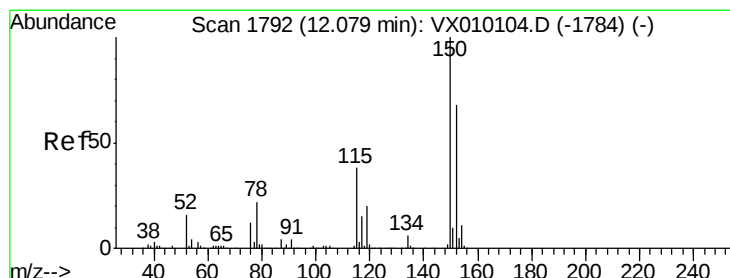
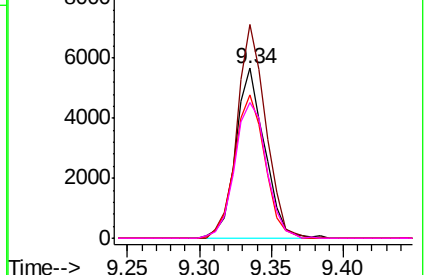
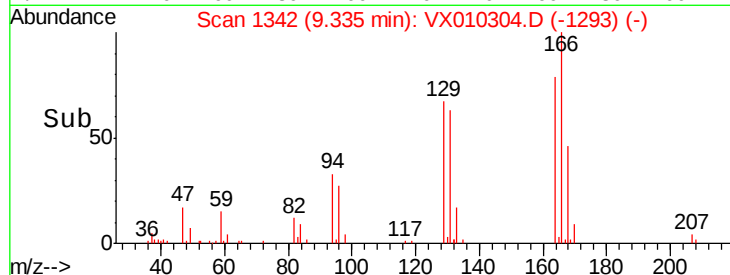
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V

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: VX010304.D

Acq: 14 Jun 2019 16:39

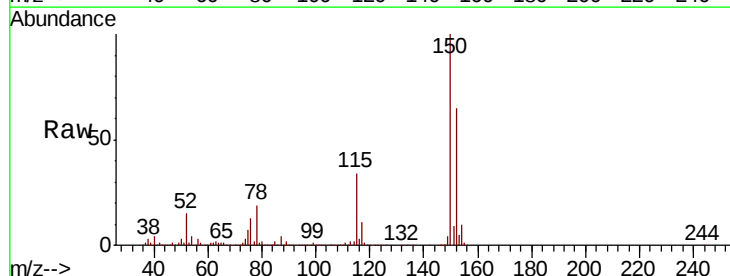
Tgt Ion:152 Resp: 201243

Ion Ratio Lower Upper

152 100

115 53.8 41.4 124.2

150 155.1 0.0 345.2

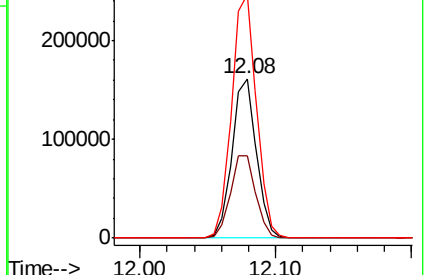
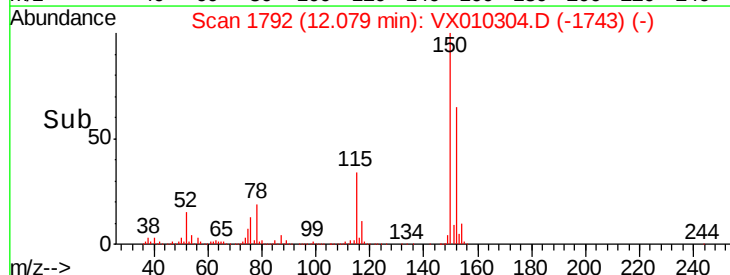


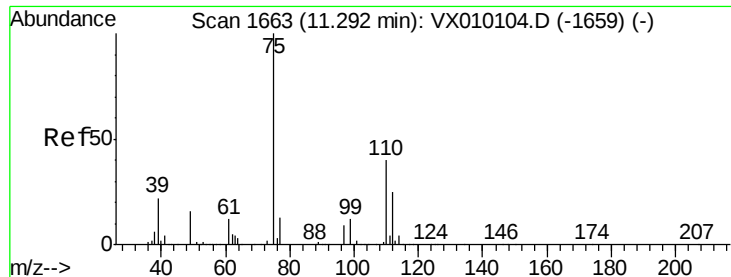
Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

Time-->





#76

1,2,3-Trichloropropane

Concen: 21.772 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010304.D

Acq: 14 Jun 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

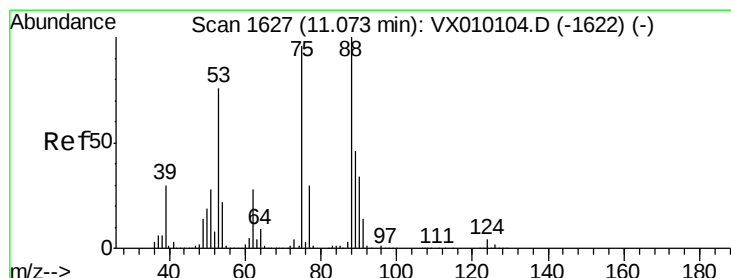
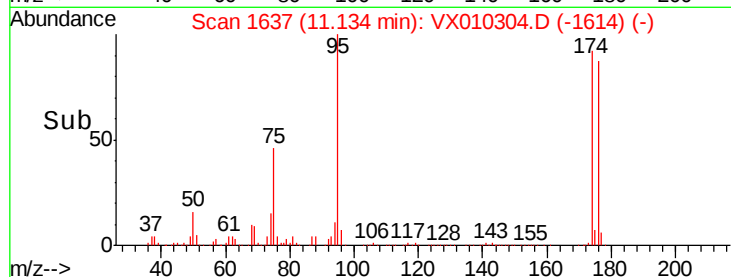
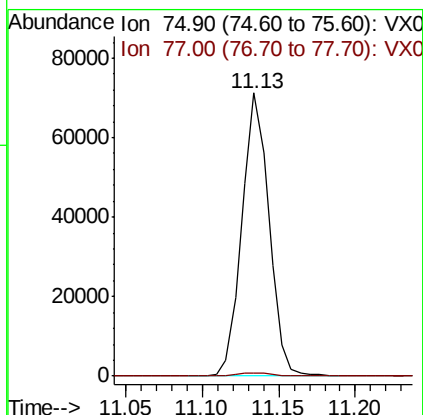
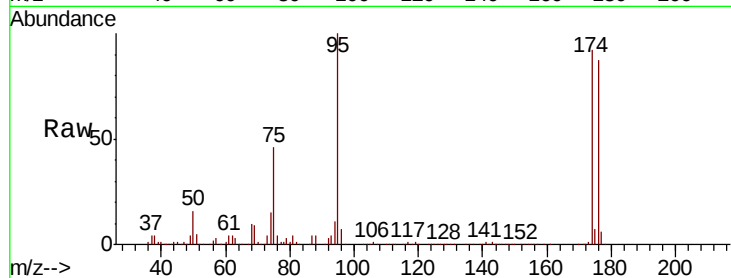
RE104D1-20190607

Tot Ion: 75 Resp: 87636

Ion Ratio Lower Upper

75 100

77 1.4 22.1 66.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 48.103 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010304.D

Acq: 14 Jun 2019 16:39

Tgt Ion: 75 Resp: 87636

Ion Ratio Lower Upper

75 100

53 0.2 79.8 119.6#

89 0.0 34.2 51.4#

