

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061219\
 Data File : VX010261.D
 Acq On : 12 Jun 2019 19:18
 Operator : JC/SP
 Sample : K3315-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE104D1-20190607

Quant Time: Jun 13 01:29:27 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	304786	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	461731	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	413355	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	193118	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	138060	46.41	ug/l	0.00
Spiked Amount			Recovery	=	92.82%	
35) Dibromofluoromethane	5.50	113	142636	50.08	ug/l	0.00
Spiked Amount			Recovery	=	100.16%	
50) Toluene-d8	8.71	98	543389	50.91	ug/l	0.00
Spiked Amount			Recovery	=	101.82%	
62) 4-Bromofluorobenzene	11.13	95	182316	45.74	ug/l	0.00
Spiked Amount			Recovery	=	91.48%	

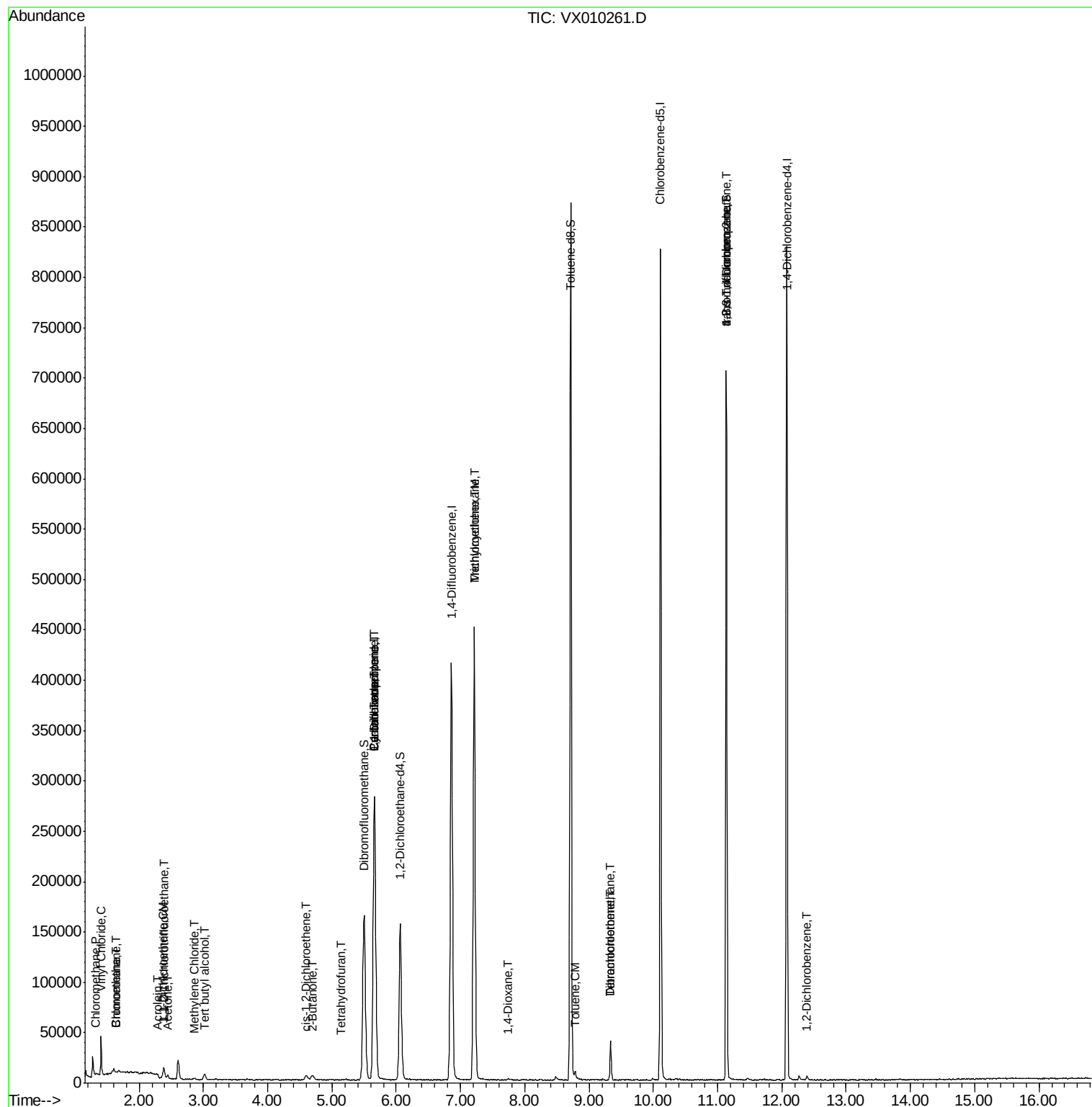
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1293	0.464	ug/l	91
4) Vinyl Chloride	1.41	62	24791	9.471	ug/l	99
5) Bromomethane	1.65	94	348	0.352	ug/l #	16
6) Chloroethane	1.64	64	900	0.682	ug/l #	75
9) 1,1,2-Trichlorotrifluoroet	2.39	101	3836	1.431	ug/l	95
11) Tert butyl alcohol	3.02	59	3165	4.343	ug/l #	85
12) 1,1-Dichloroethene	2.37	96	907	0.331	ug/l #	57
13) Acrolein	2.29	56	257	1.934	ug/l #	1
16) Acetone	2.44	43	3963	2.832	ug/l	90
20) Methylene Chloride	2.85	84	838	0.273	ug/l #	50
25) 2-Butanone	4.69	43	561	0.269	ug/l #	55
27) cis-1,2-Dichloroethene	4.60	96	2922	0.867	ug/l	73
29) Tetrahydrofuran	5.14	42	312	0.238	ug/l #	39
31) Cyclohexane	5.67	56	5431	1.254	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	18256	4.846	ug/l #	52
38) Carbon Tetrachloride	5.67	117	25521	5.985	ug/l #	15
39) Methylcyclohexane	7.21	83	1991	0.388	ug/l #	1
44) Trichloroethene	7.21	130	185751	52.903	ug/l	84
49) 1,4-Dioxane	7.74	88	1257	14.385	ug/l #	78
52) Toluene	8.79	92	2444	0.319	ug/l	91
60) Dibromochloromethane	9.34	129	7060	1.903	ug/l #	11
64) Tetrachloroethene	9.34	164	7963	2.594	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	84015	21.750	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	84015	48.055	ug/l #	10
91) 1,2-Dichlorobenzene	12.39	146	1407	0.222	ug/l	92

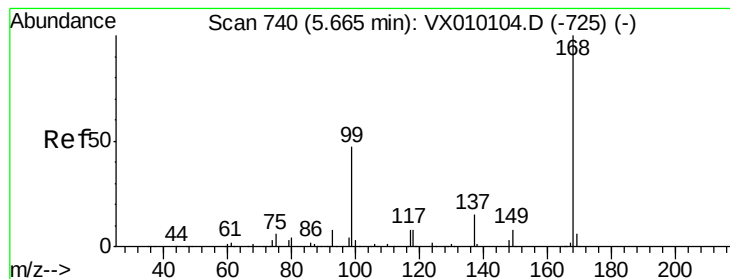
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X060719W.M
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: VX010261.D

Acq: 12 Jun 2019 19:18

Instrument :

MSVOA_X

ClientSampleId :

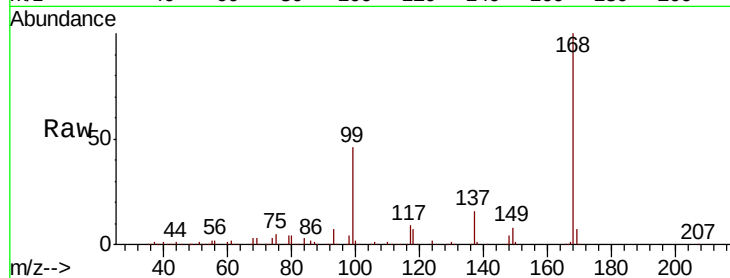
RE104D1-20190607

Tot Ion:168 Resp: 304786

Ion Ratio Lower Upper

168 100

99 45.8 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

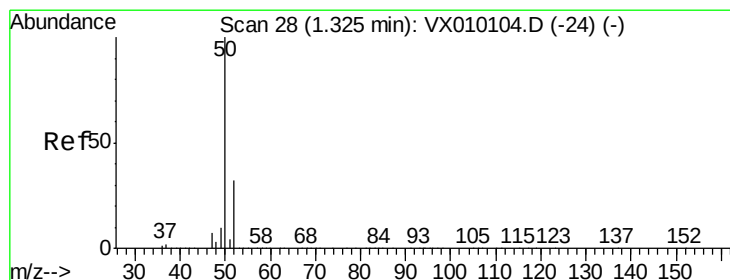
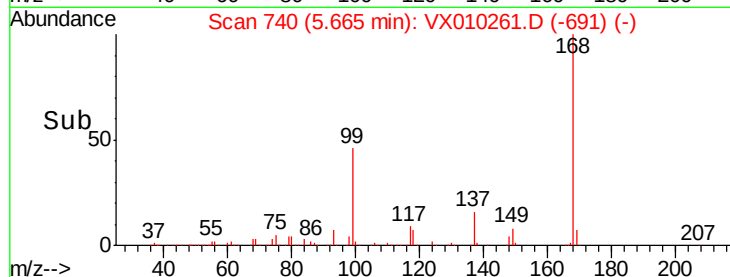
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.464 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX010261.D

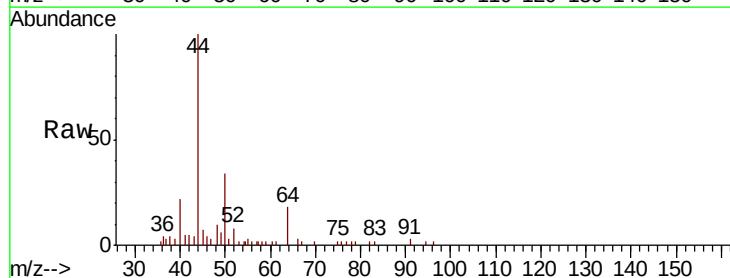
Acq: 12 Jun 2019 19:18

Tgt Ion: 50 Resp: 1293

Ion Ratio Lower Upper

50 100

52 27.6 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

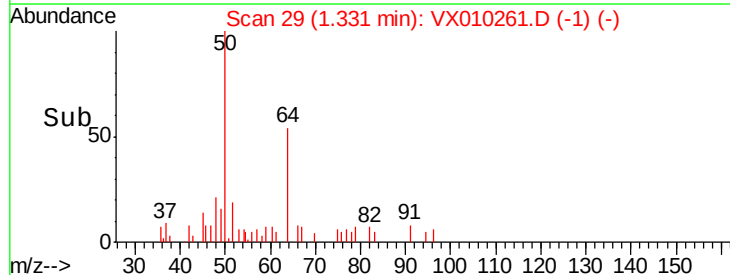
1.33

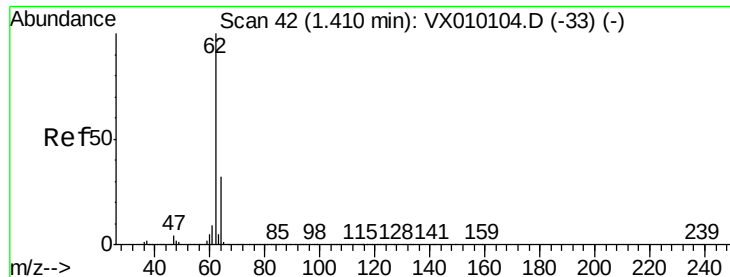
1000

500

0

Time-->





#4

Vinyl Chloride

Concen: 9.471 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX010261.D

Acq: 12 Jun 2019 19:18

Instrument :

MSVOA_X

ClientSampleId :

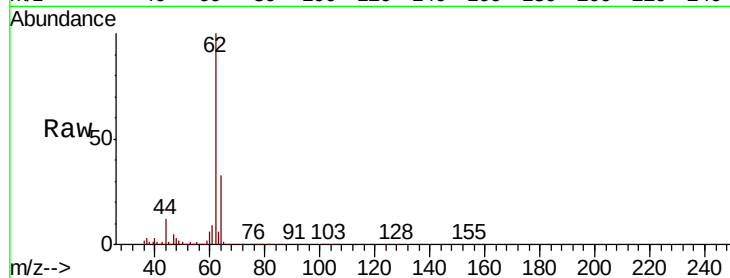
RE104D1-20190607

Tot Ion: 62 Resp: 24791

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

25000

20000

15000

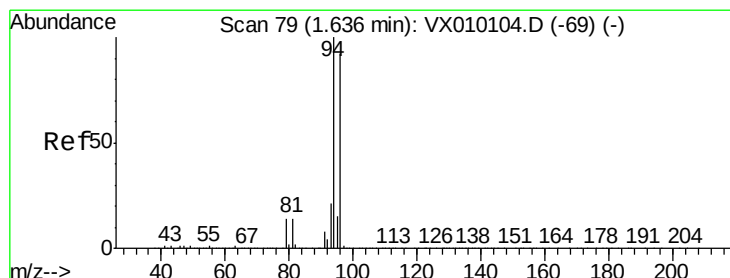
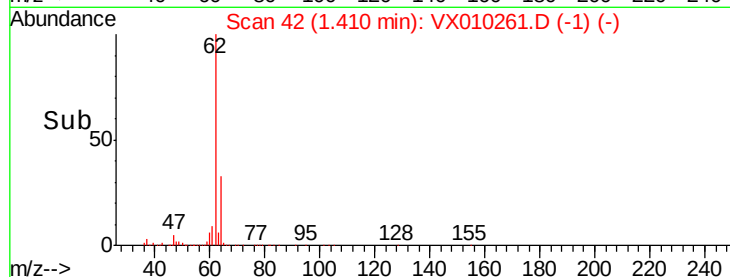
10000

5000

0

Time-->

1.35 1.40 1.45



#5

Bromomethane

Concen: 0.352 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX010261.D

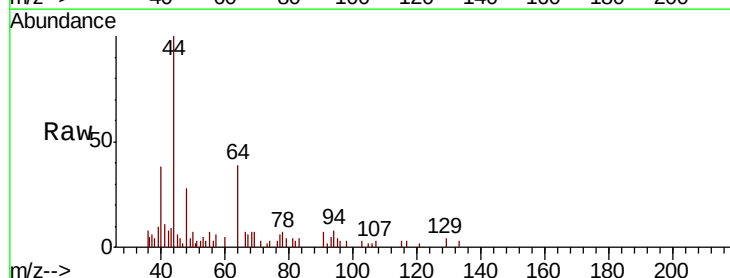
Acq: 12 Jun 2019 19:18

Tgt Ion: 94 Resp: 348

Ion Ratio Lower Upper

94 100

96 13.4 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

200

150

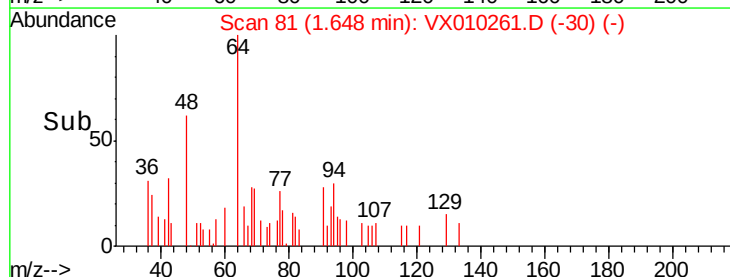
100

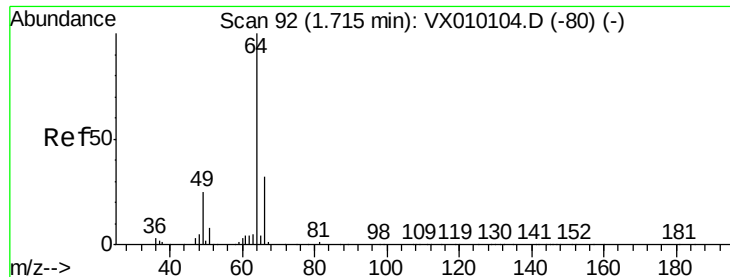
50

0

Time-->

1.60 1.62 1.64 1.66 1.68





#6

Chloroethane

Concen: 0.682 ug/l

RT: 1.64 min Scan# 80

Delta R.T. -0.07 min

Lab File: VX010261.D

Acq: 12 Jun 2019 19:18

Instrument :

MSVOA_X

ClientSampleId :

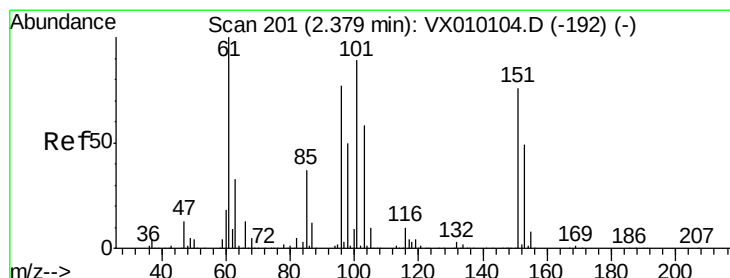
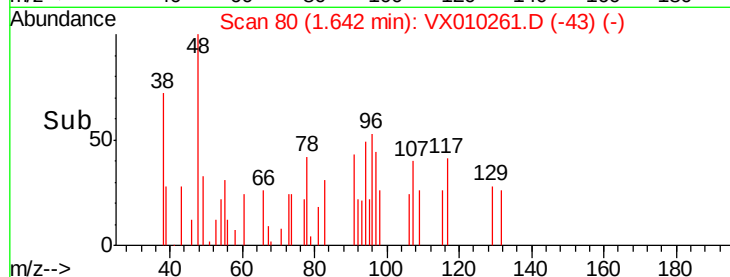
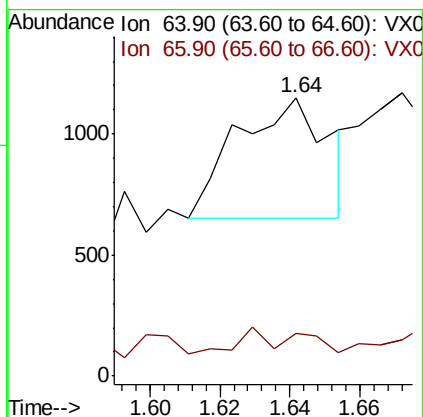
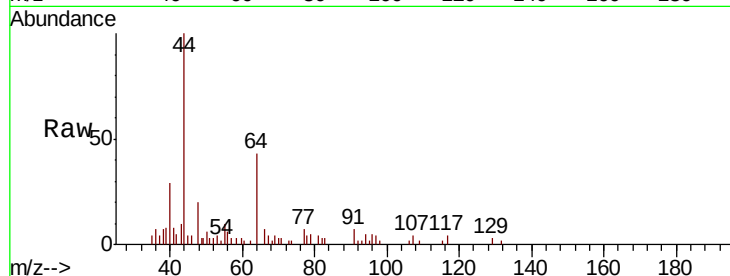
RE104D1-20190607

Tot Ion: 64 Resp: 900

Ion Ratio Lower Upper

64 100

66 17.6 25.1 37.7#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.431 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.01 min

Lab File: VX010261.D

Acq: 12 Jun 2019 19:18

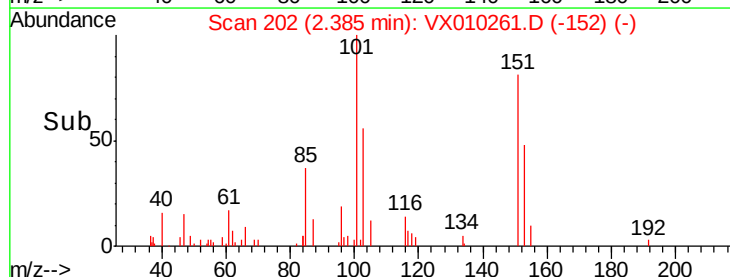
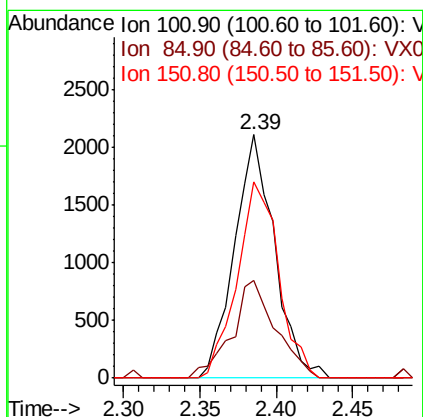
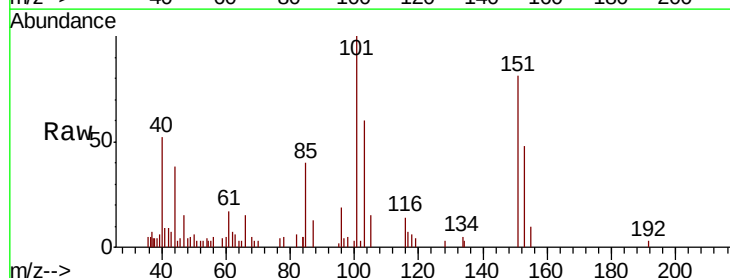
Tgt Ion: 101 Resp: 3836

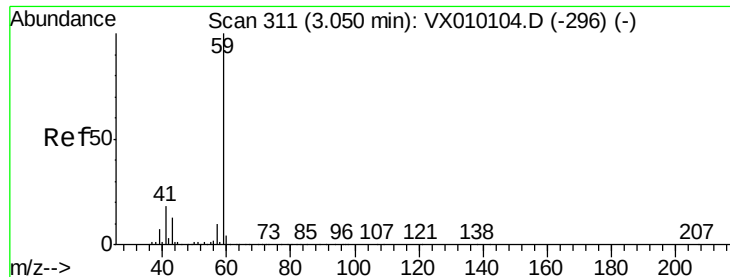
Ion Ratio Lower Upper

101 100

85 44.0 35.2 52.8

151 83.8 61.9 92.9

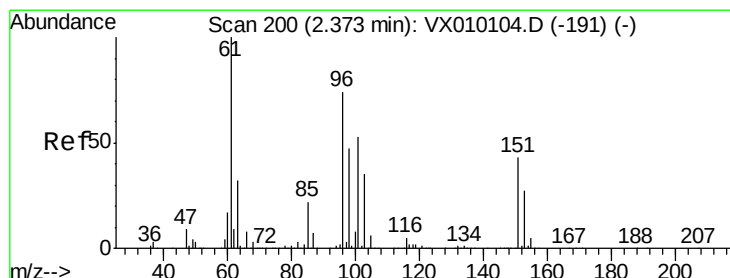
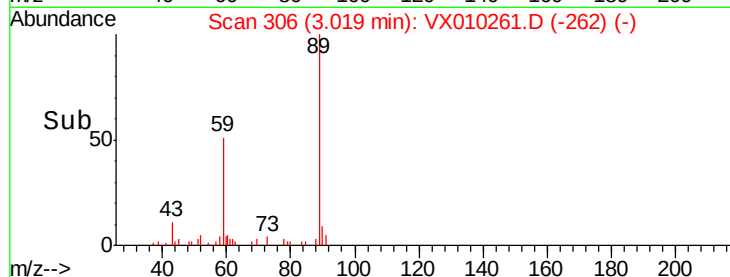
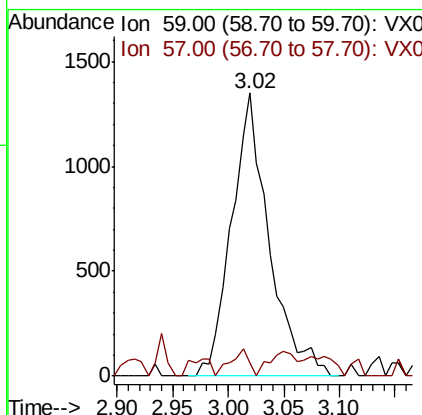
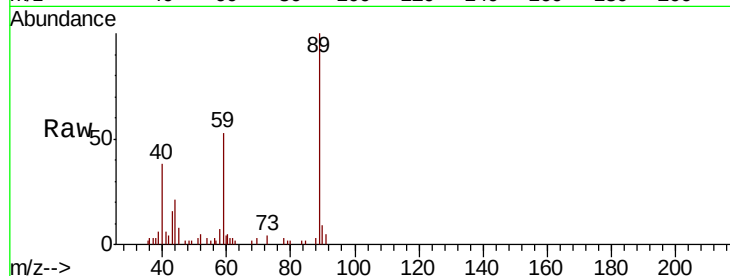




#11
Tert butyl alcohol
Concen: 4.343 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX010261.D
Acq: 12 Jun 2019 19:18

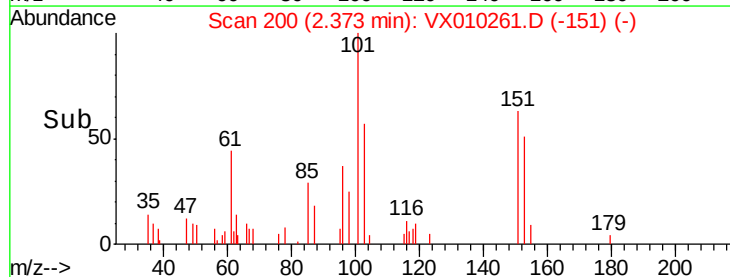
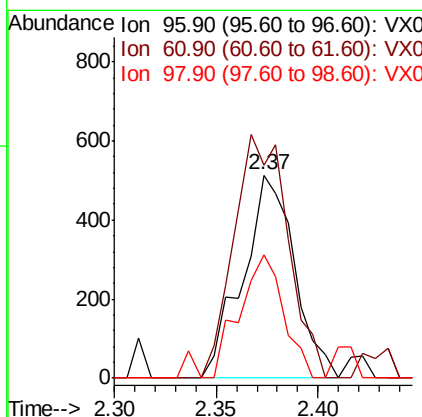
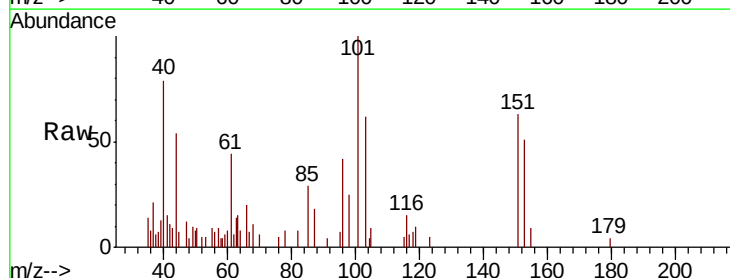
Instrument :
MSVOA_X
ClientSampleId :
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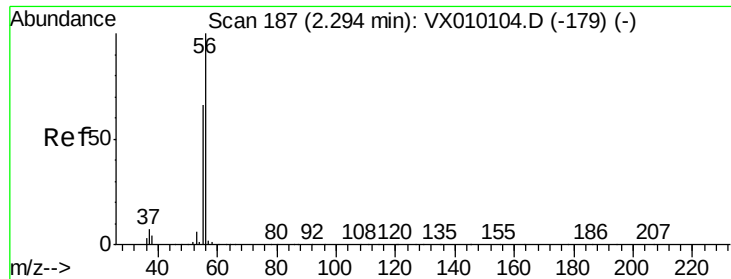
Tot Ion: 59 Resp: 3165
Ion Ratio Lower Upper
59 100
57 4.5 8.2 12.2#



#12
1,1-Dichloroethene
Concen: 0.331 ug/l
RT: 2.37 min Scan# 200
Delta R.T. -0.00 min
Lab File: VX010261.D
Acq: 12 Jun 2019 19:18

Tgt Ion: 96 Resp: 907
Ion Ratio Lower Upper
96 100
61 104.9 140.7 211.1#
98 47.6 50.1 75.1#





#13

Acrolein

Concen: 1.934 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX010261.D

Acq: 12 Jun 2019 19:18

Instrument :

MSVOA_X

ClientSampleId :

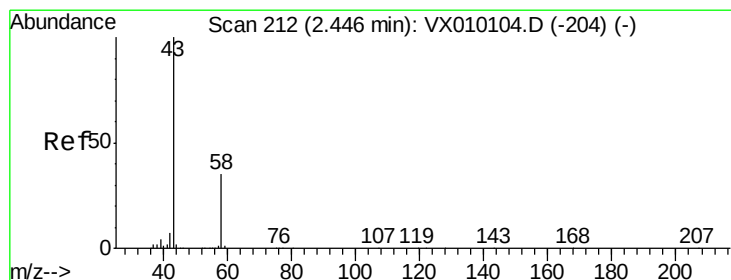
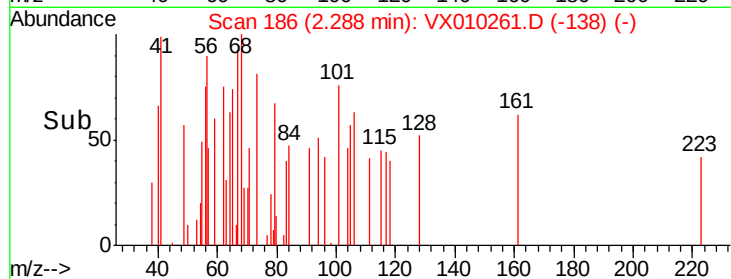
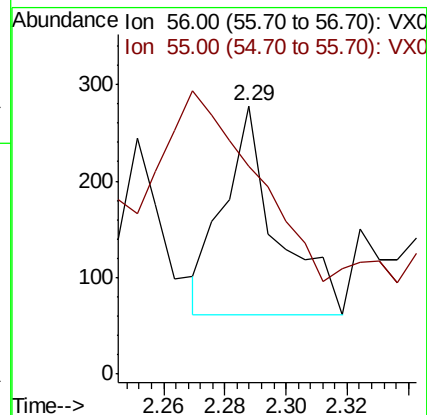
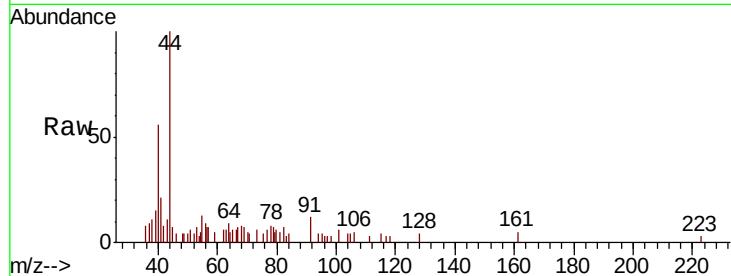
RE104D1-20190607

Tot Ion: 56 Resp: 257

Ion Ratio Lower Upper

56 100

55 157.2 57.0 85.4#



#16

Acetone

Concen: 2.832 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010261.D

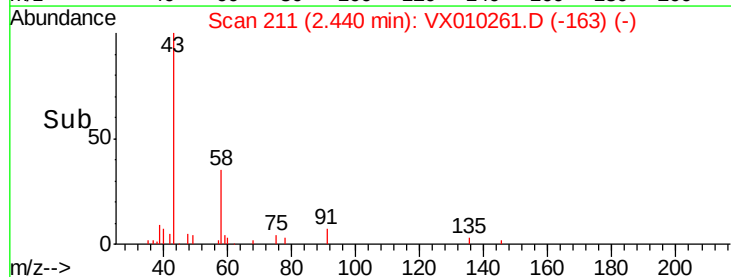
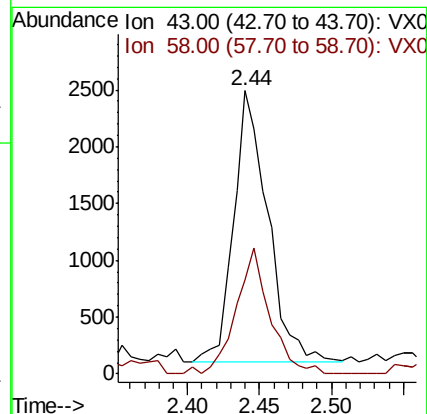
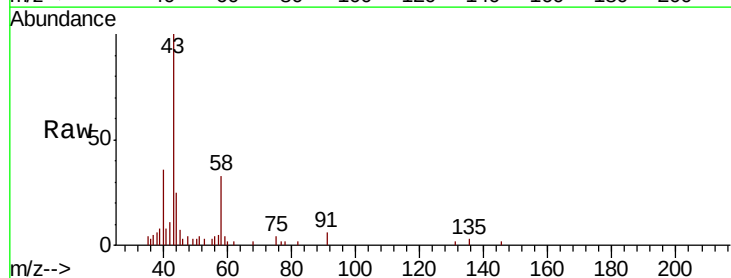
Acq: 12 Jun 2019 19:18

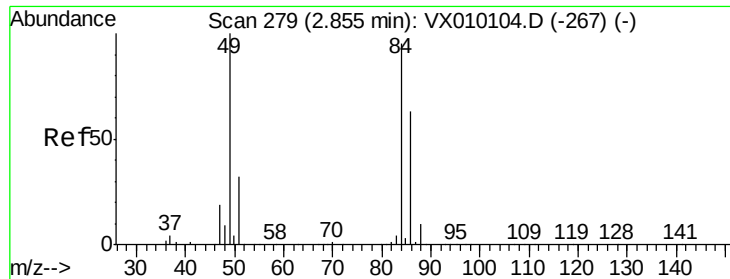
Tgt Ion: 43 Resp: 3963

Ion Ratio Lower Upper

43 100

58 34.5 23.2 34.8

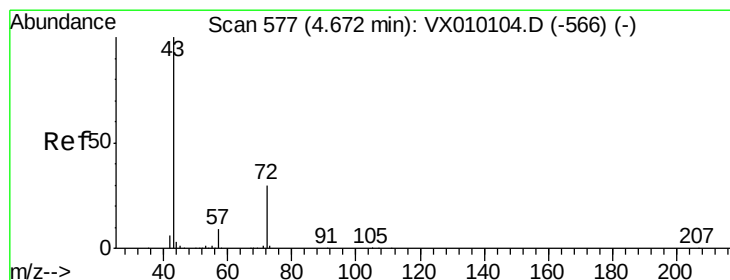
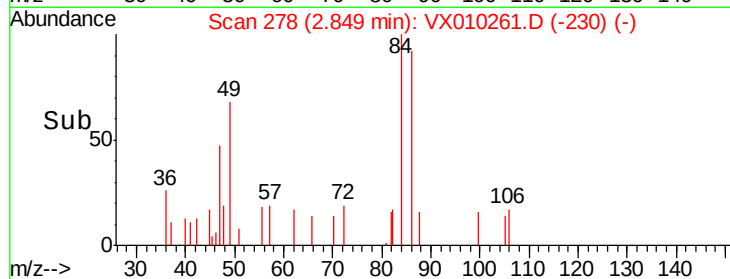
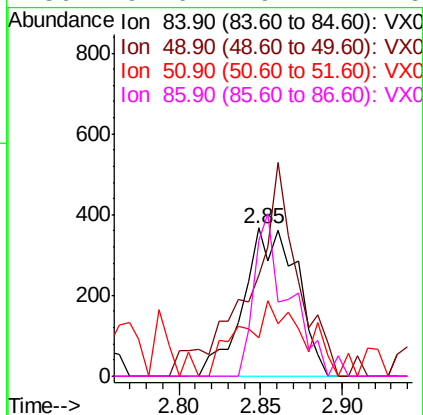
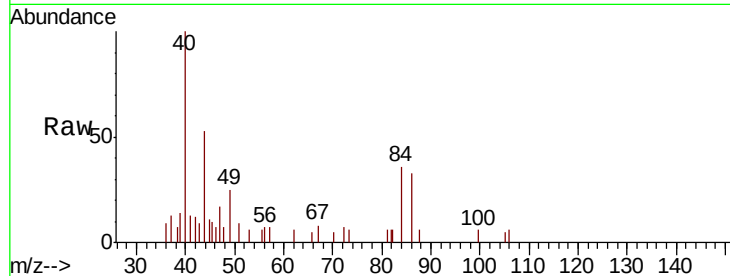




#20
Methvlene Chloride
Concen: 0.273 ug/l
RT: 2.85 min Scan# 278
Delta R.T. -0.01 min
Lab File: VX010261.D
Acq: 12 Jun 2019 19:18

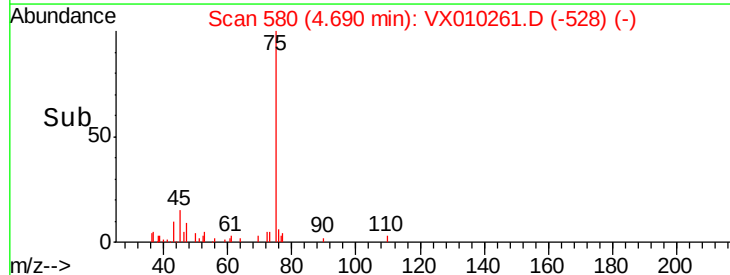
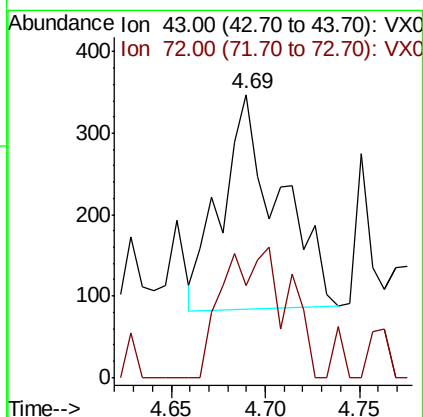
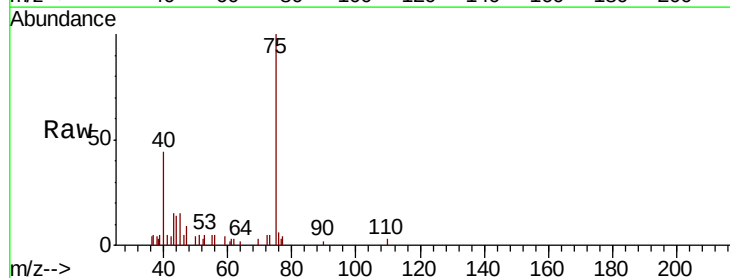
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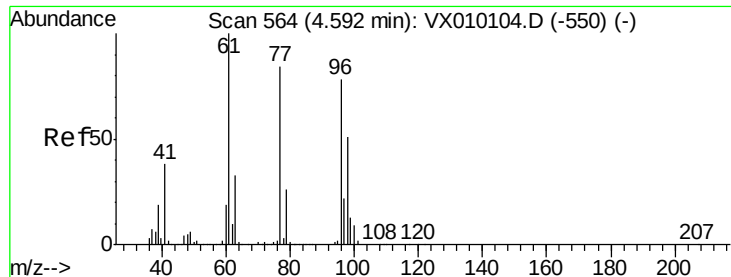
Tot Ion: 84 Resp: 838
Ion Ratio Lower Upper
84 100
49 68.4 115.8 173.6#
51 25.9 34.4 51.6#
86 91.6 49.7 74.5#



#25
2-Butanone
Concen: 0.269 ug/l
RT: 4.69 min Scan# 580
Delta R.T. 0.02 min
Lab File: VX010261.D
Acq: 12 Jun 2019 19:18

Tgt Ion: 43 Resp: 561
Ion Ratio Lower Upper
43 100
72 43.1 17.5 26.3#



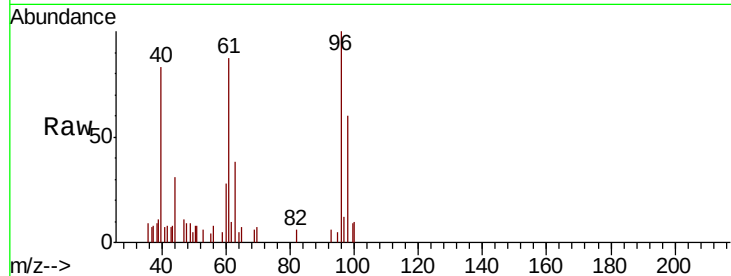


#27

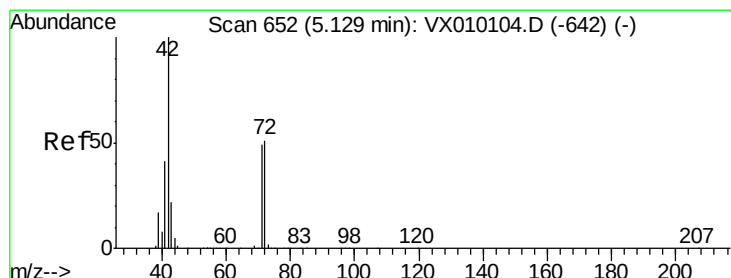
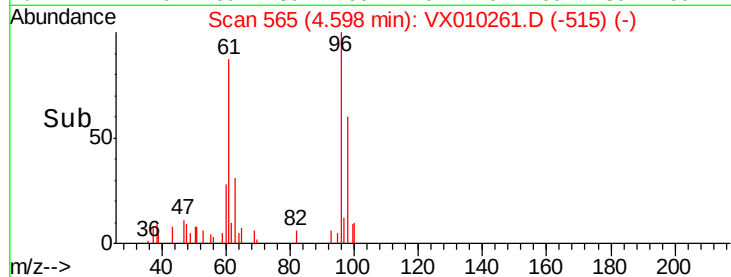
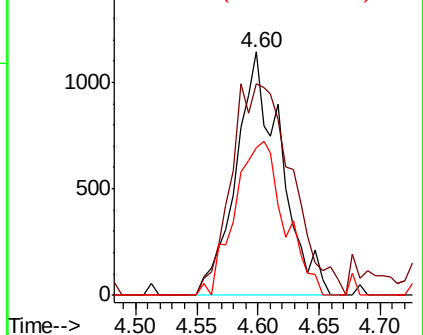
cis-1,2-Dichloroethene
 Concen: 0.867 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. 0.01 min
 Lab File: VX010261.D
 Acq: 12 Jun 2019 19:18

Instrument :
 MSVOA_X
 ClientSampleId :
 RE104D1-20190607

Tot Ion	Ratio	Lower	Upper
96	100		
61	118.0	0.0	334.0
98	70.2	0.0	131.6



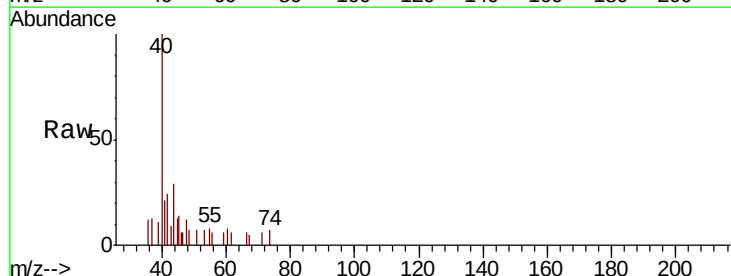
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



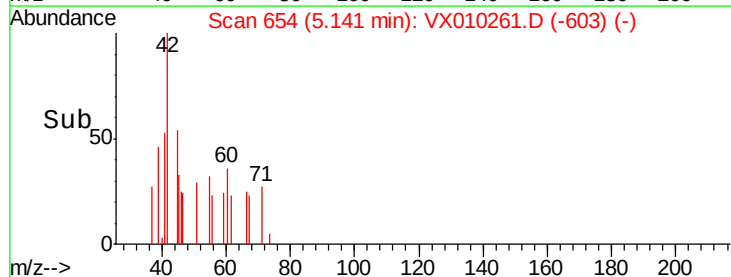
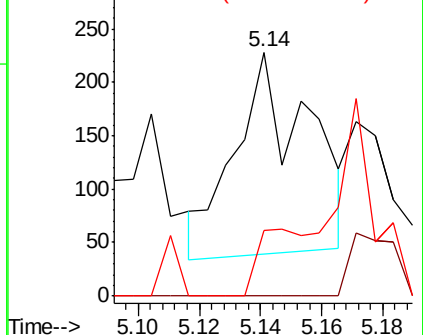
#29

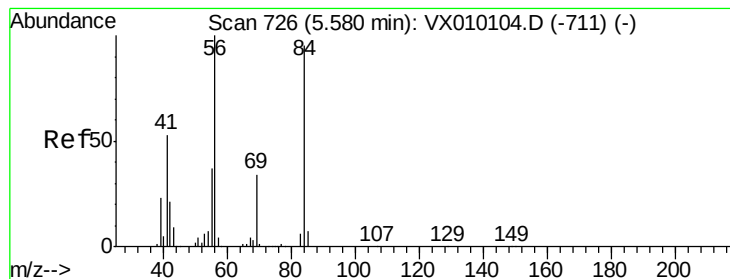
Tetrahydrofuran
 Concen: 0.238 ug/l
 RT: 5.14 min Scan# 654
 Delta R.T. 0.01 min
 Lab File: VX010261.D
 Acq: 12 Jun 2019 19:18

Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.0	29.2	43.8#
71	0.0	27.6	41.4#



Abundance Ion 42.00 (41.70 to 42.70): VX0
 Ion 72.00 (71.70 to 72.70): VX0
 Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 1.254 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX010261.D

Acq: 12 Jun 2019 19:18

Instrument :

MSVOA_X

ClientSampleId :

RE104D1-20190607

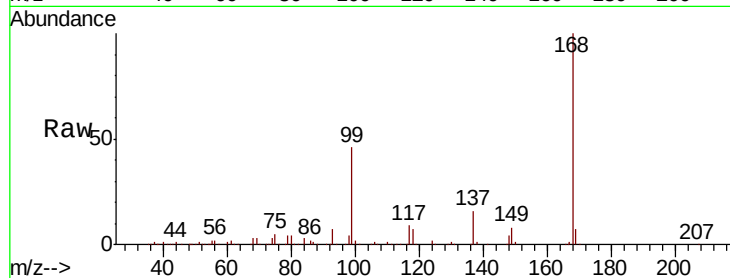
Tot Ion: 56 Resp: 5431

Ion Ratio Lower Upper

56 100

69 192.6 21.6 32.4#

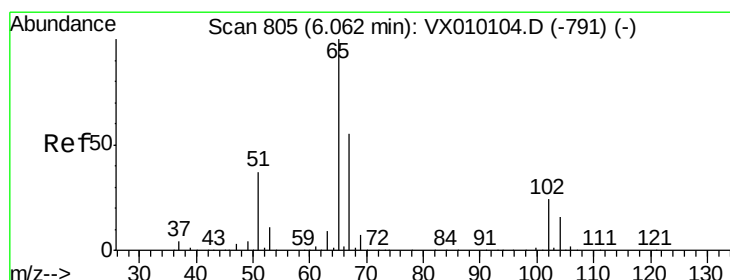
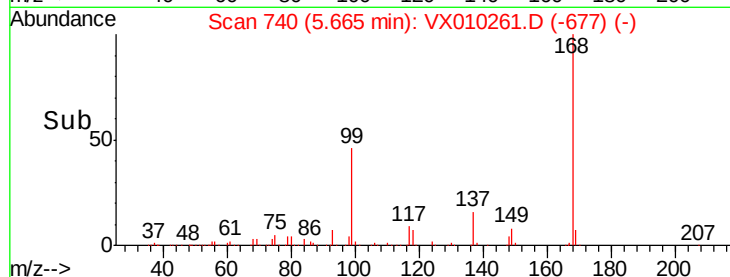
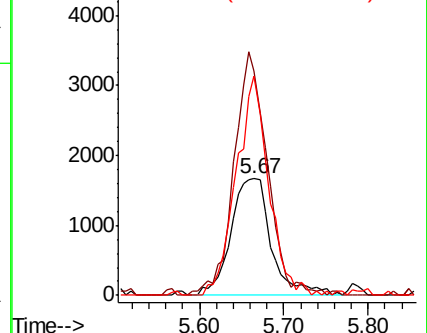
84 187.4 56.8 85.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 46.406 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010261.D

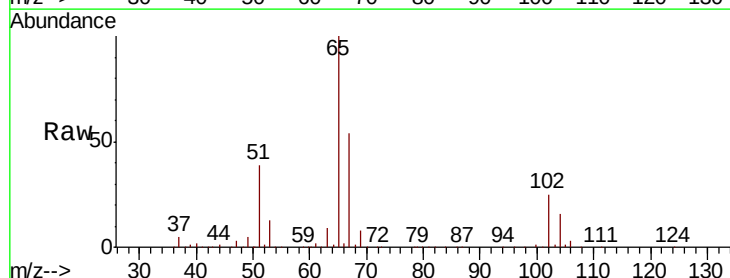
Acq: 12 Jun 2019 19:18

Tgt Ion: 65 Resp: 138060

Ion Ratio Lower Upper

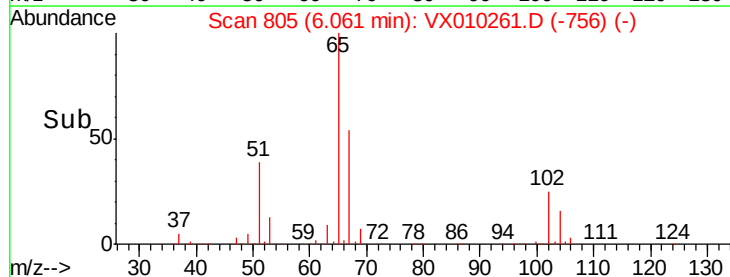
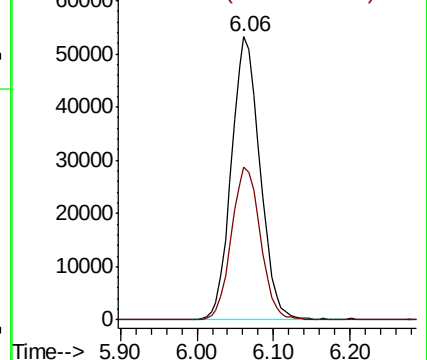
65 100

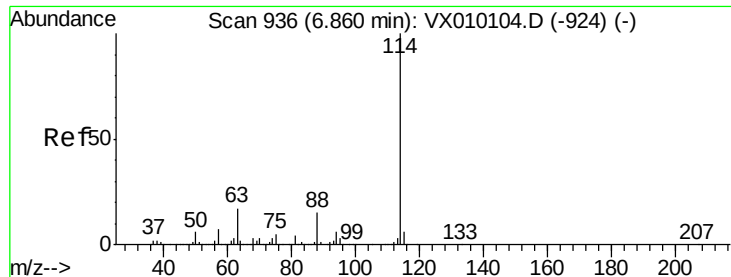
67 54.9 0.0 108.4



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: VX010261.D

Acq: 12 Jun 2019 19:18

Instrument :

MSVOA_X

ClientSampleId :

RE104D1-20190607

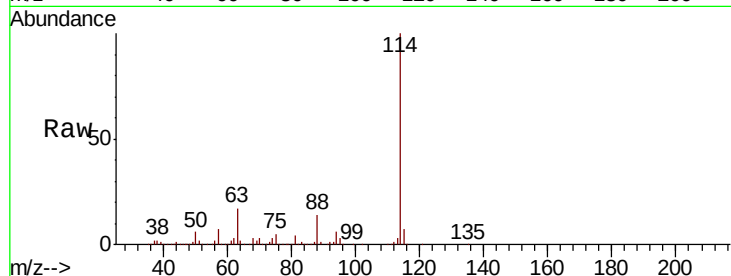
Tot Ion:114 Resp: 461731

Ion Ratio Lower Upper

114 100

63 16.9 0.0 47.4

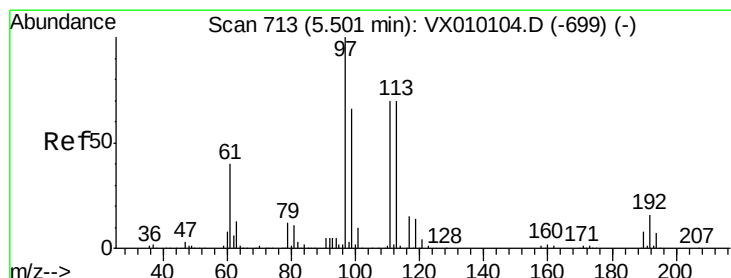
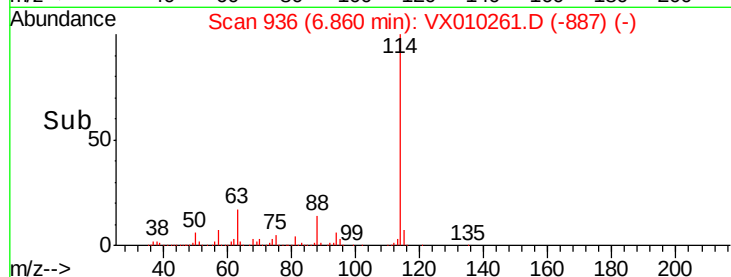
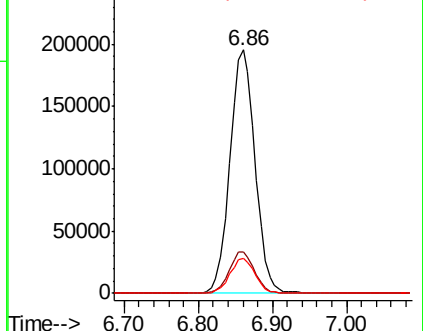
88 14.5 0.0 33.0



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: 50.082 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX010261.D

Acq: 12 Jun 2019 19:18

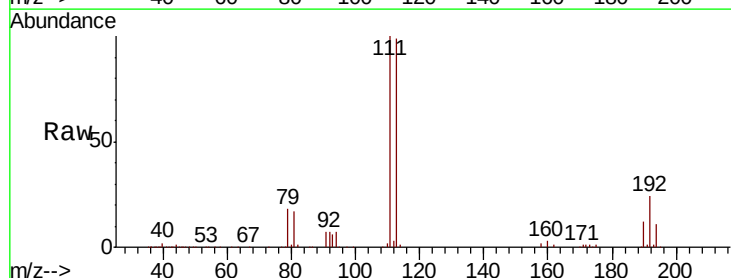
Tgt Ion:113 Resp: 142636

Ion Ratio Lower Upper

113 100

111 101.0 82.2 123.2

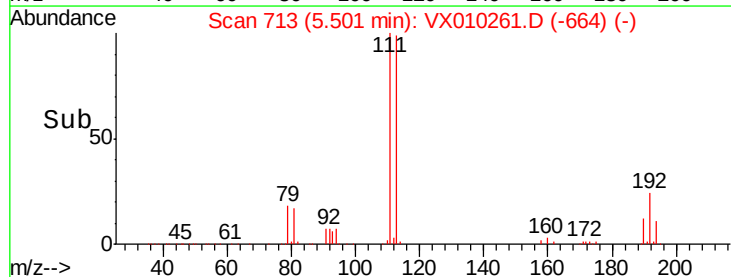
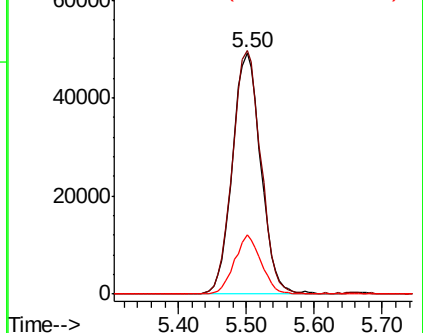
192 23.0 17.1 25.7

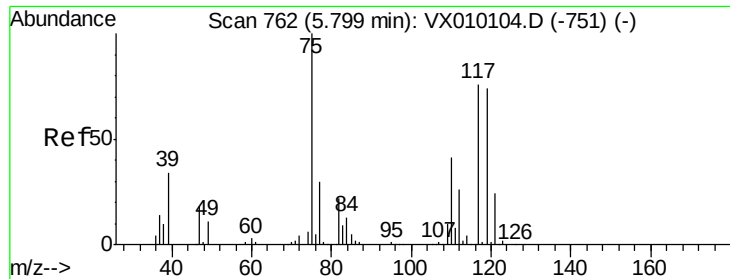


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

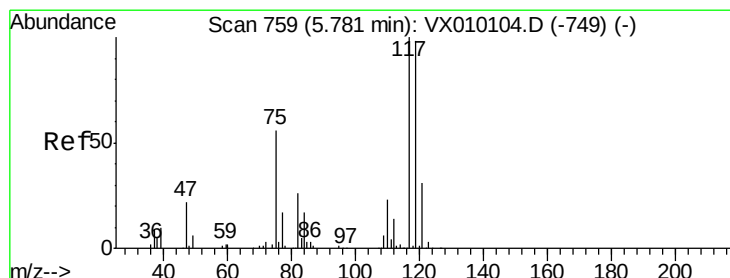
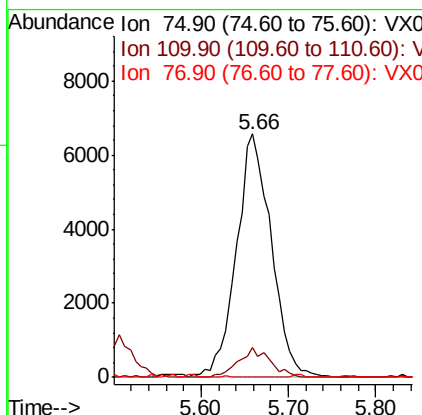
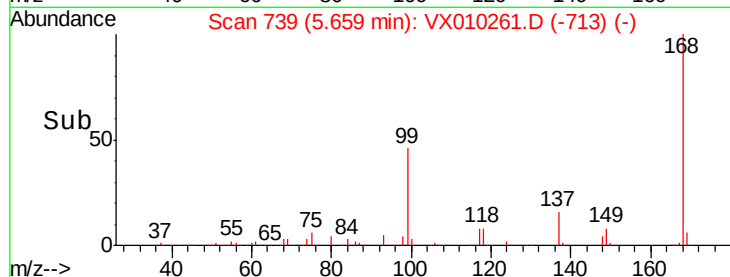
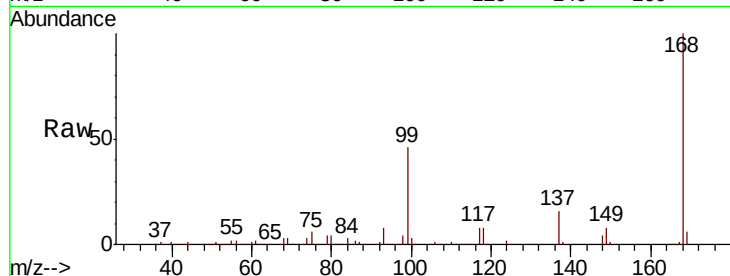




#36
 1,1-Dichloropropene
 Concen: 4.846 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX010261.D
 Acq: 12 Jun 2019 19:18

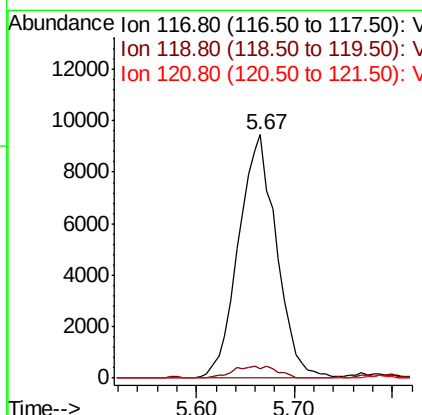
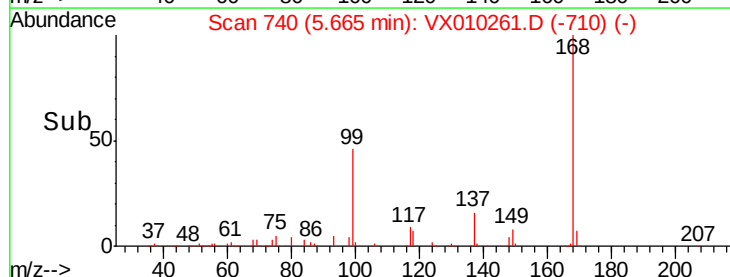
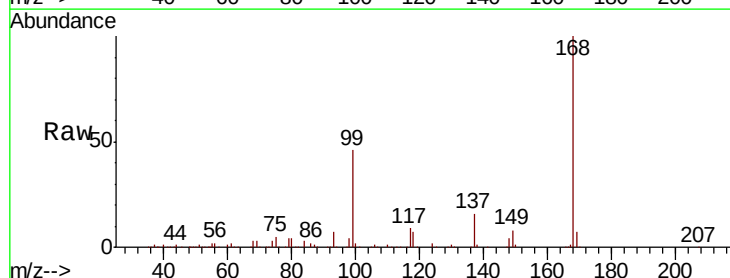
Instrument :
 MSVOA_X
 ClientSampleId :
 RE104D1-20190607

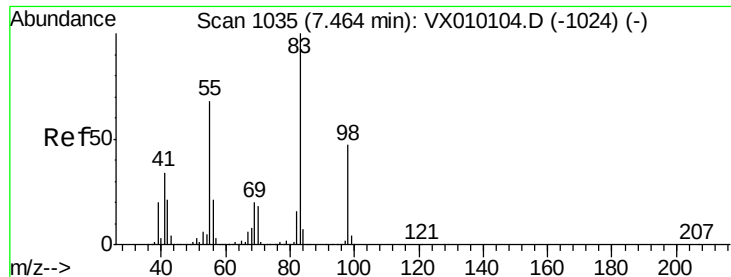
Tot Ion	Ratio	Lower	Upper
75	100		
110	11.0	16.7	50.1#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 5.985 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX010261.D
 Acq: 12 Jun 2019 19:18

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.9	77.3	115.9#
121	0.0	25.4	38.0#

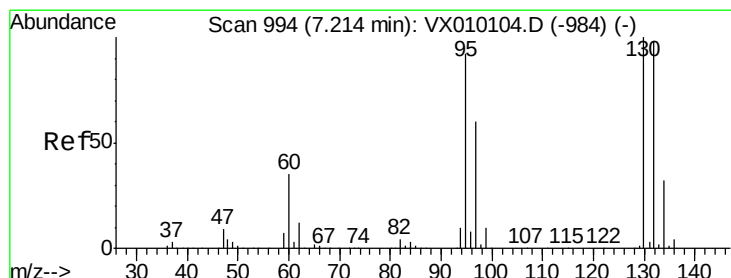
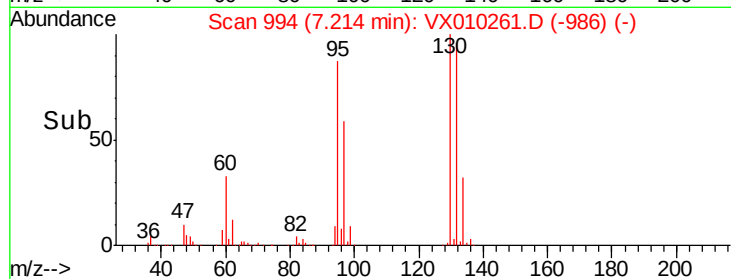
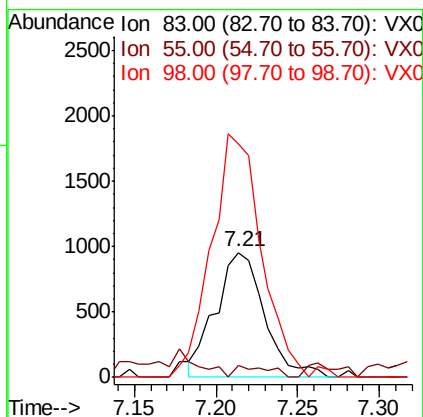
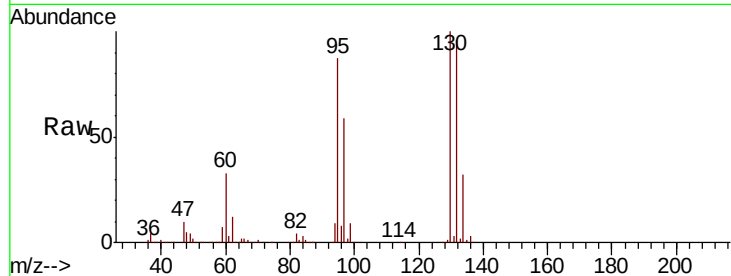




#39
Methylvlcyclohexane
Concen: 0.388 ug/l
RT: 7.21 min Scan# 994
Delta R.T. -0.25 min
Lab File: VX010261.D
Acq: 12 Jun 2019 19:18

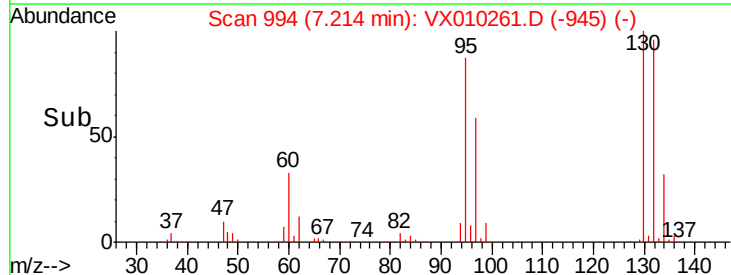
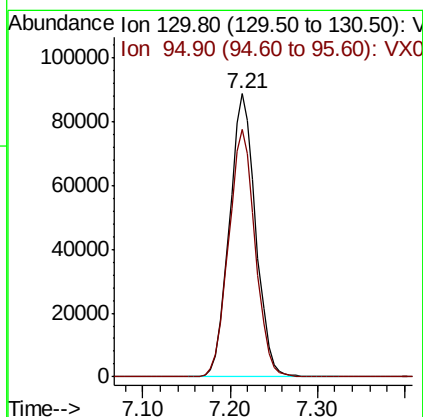
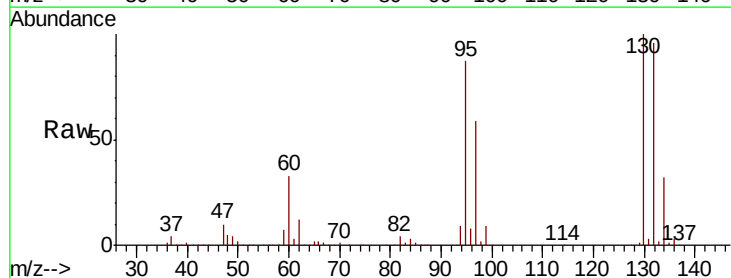
Instrument :
MSVOA_X
ClientSampleId :
RE104D1-20190607

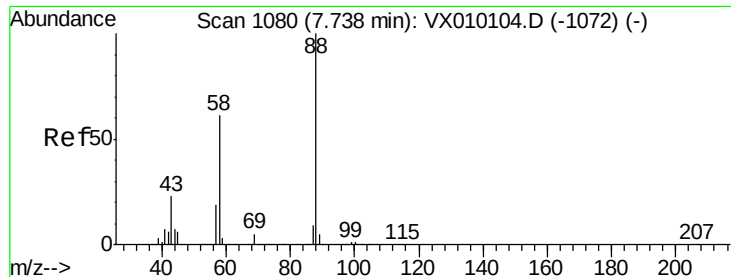
Tot Ion: 83 Resp: 1991
Ion Ratio Lower Upper
83 100
55 2.9 69.9 104.9#
98 187.4 35.1 52.7#



#44
Trichloroethene
Concen: 52.903 ug/l
RT: 7.21 min Scan# 994
Delta R.T. -0.00 min
Lab File: VX010261.D
Acq: 12 Jun 2019 19:18

Tgt Ion:130 Resp: 185751
Ion Ratio Lower Upper
130 100
95 87.5 0.0 207.4

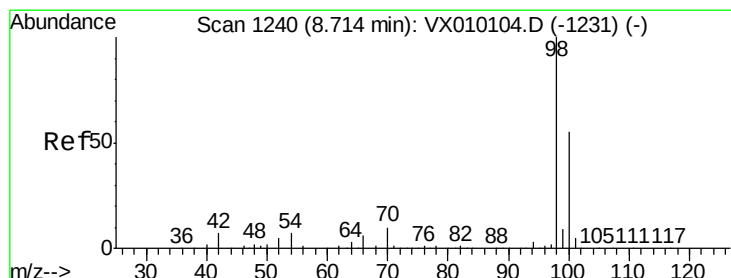
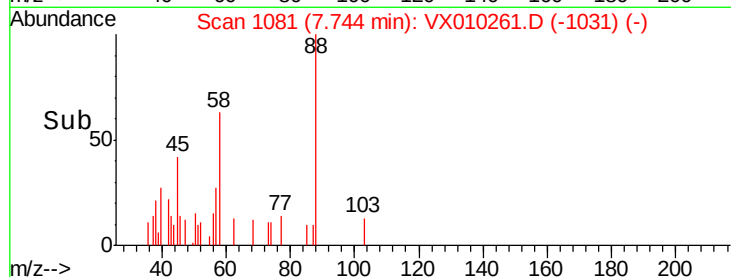
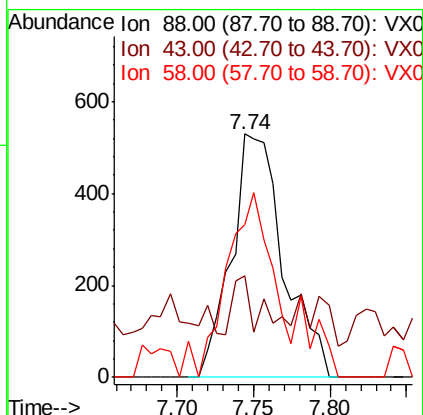
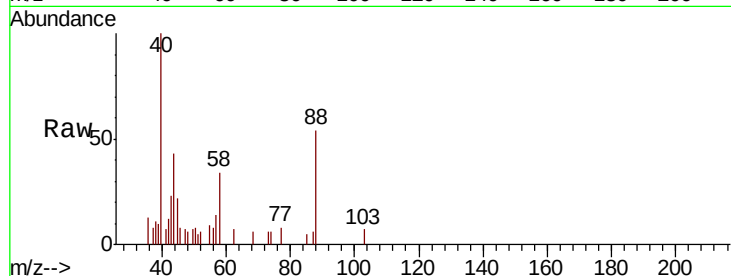




#49
1,4-Dioxane
Concen: 14.385 ug/l
RT: 7.74 min Scan# 1081
Delta R.T. 0.01 min
Lab File: VX010261.D
Acq: 12 Jun 2019 19:18

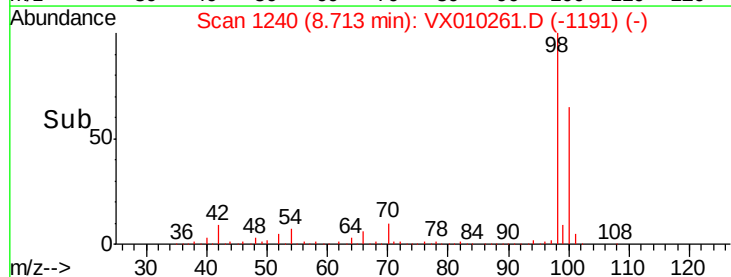
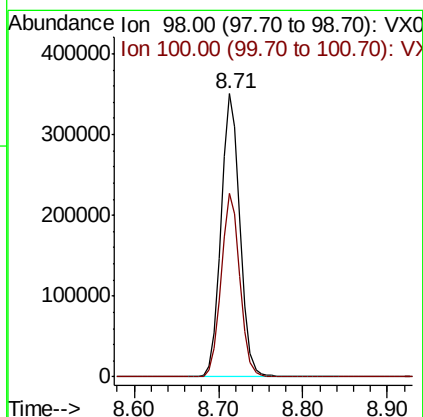
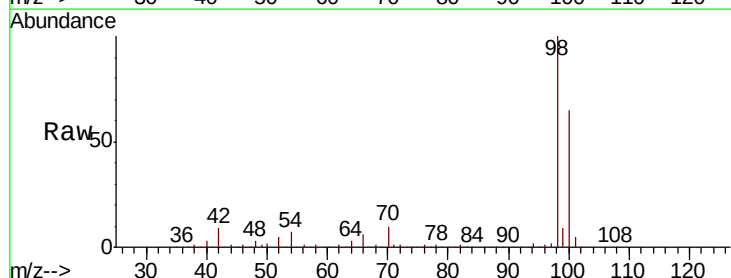
Instrument :
MSVOA_X
ClientSampleId :
RE104D1-20190607

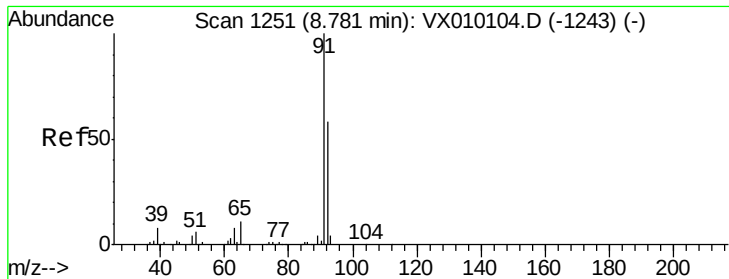
Tot Ion: 88 Resp: 1257
Ion Ratio Lower Upper
88 100
43 15.8 30.2 45.4#
58 67.1 64.0 96.0



#50
Toluene-d8
Concen: 50.907 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010261.D
Acq: 12 Jun 2019 19:18

Tgt Ion: 98 Resp: 543389
Ion Ratio Lower Upper
98 100
100 64.2 51.5 77.3





#52

Toluene

Concen: 0.319 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.01 min

Lab File: VX010261.D

Acq: 12 Jun 2019 19:18

Instrument :

MSVOA_X

ClientSampleId :

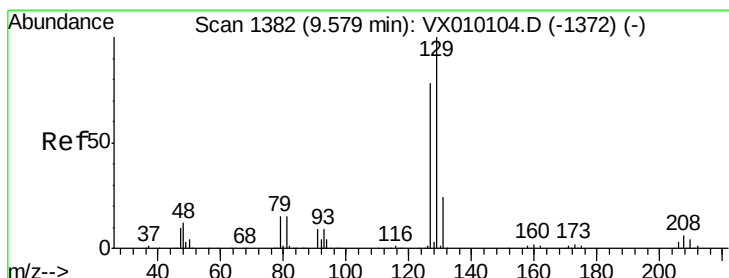
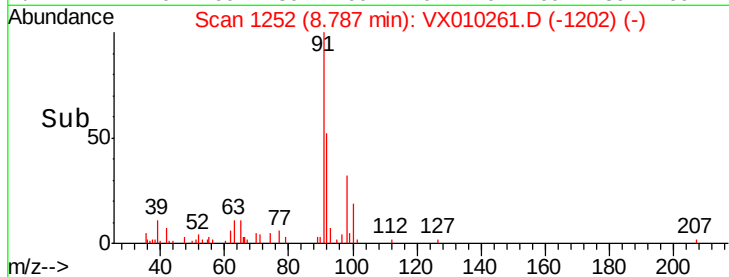
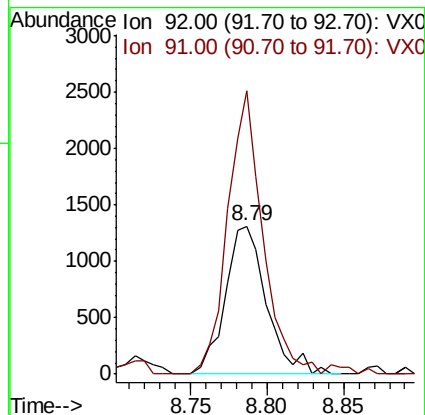
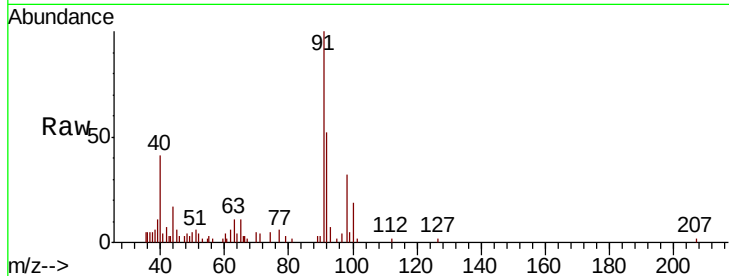
RE104D1-20190607

Tot Ion: 92 Resp: 2444

Ion Ratio Lower Upper

92 100

91 162.9 139.9 209.9



#60

Dibromochloromethane

Concen: 1.903 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX010261.D

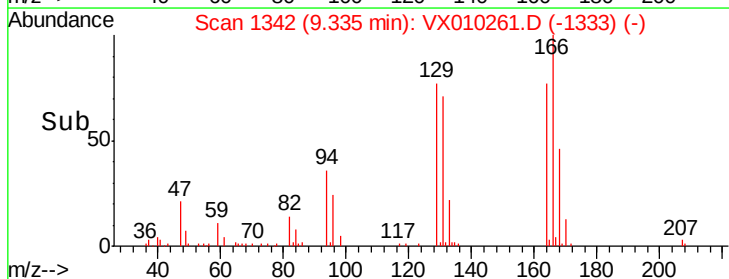
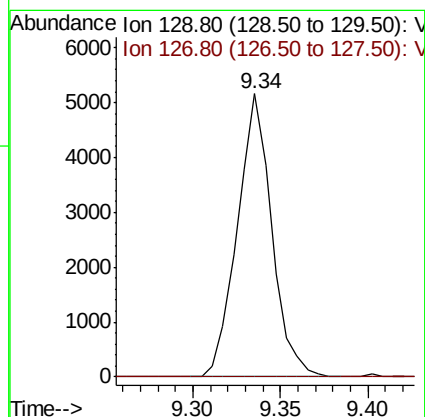
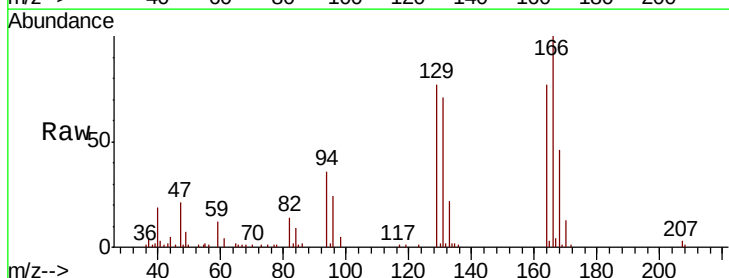
Acq: 12 Jun 2019 19:18

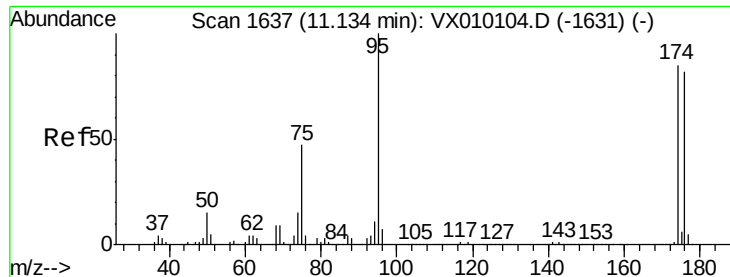
Tgt Ion:129 Resp: 7060

Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.5#





#62

4-Bromofluorobenzene

Concen: 45.735 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010261.D

Acq: 12 Jun 2019 19:18

Instrument :

MSVOA_X

ClientSampleId :

RE104D1-20190607

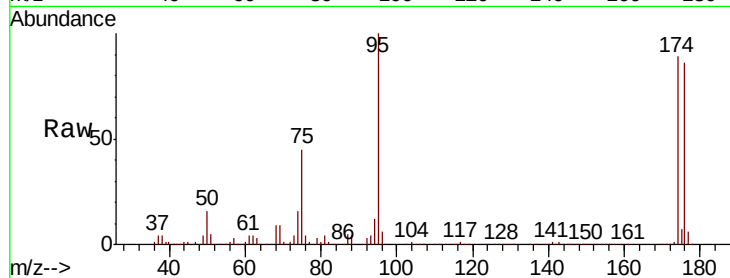
Tot Ion: 95 Resp: 182316

Ion Ratio Lower Upper

95 100

174 95.4 0.0 160.4

176 92.0 0.0 154.6

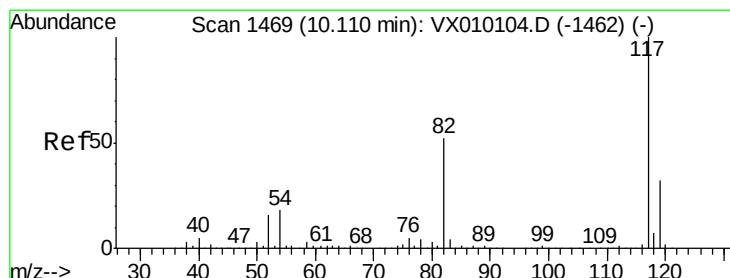
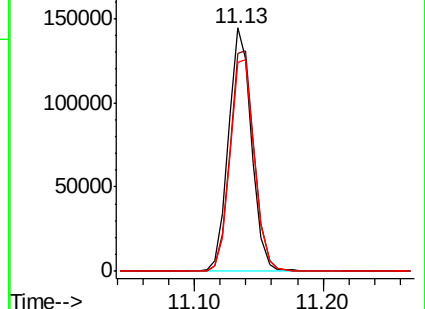
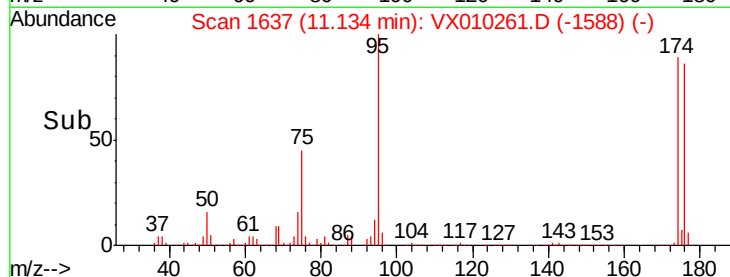


Abundance Ion 94.90 (94.60 to 95.60): VX010104.D (-1631) (-)

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

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

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX010261.D

Acq: 12 Jun 2019 19:18

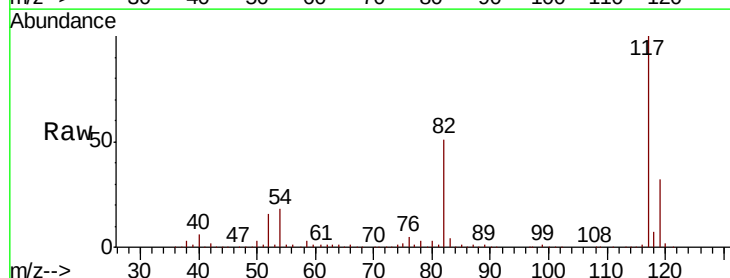
Tgt Ion: 117 Resp: 413355

Ion Ratio Lower Upper

117 100

82 50.9 49.2 73.8

119 31.9 25.2 37.8

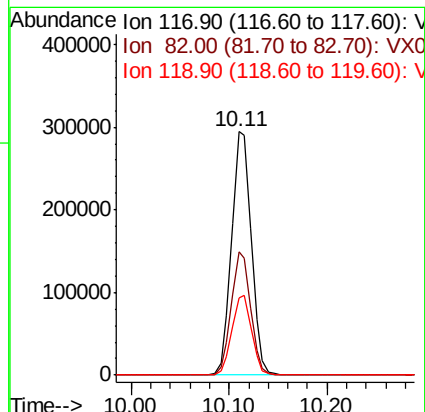
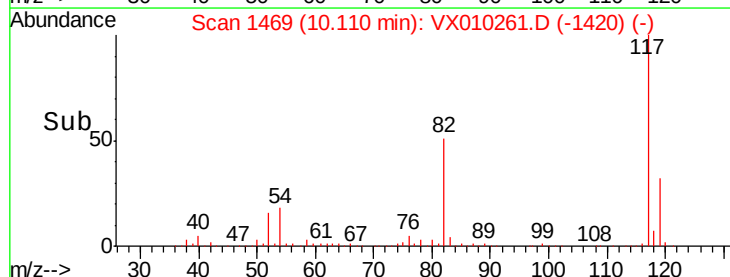


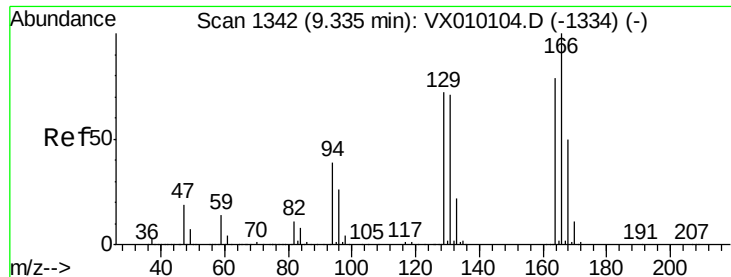
Abundance Ion 116.90 (116.60 to 117.60): VX010104.D (-1462) (-)

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

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

Time-->

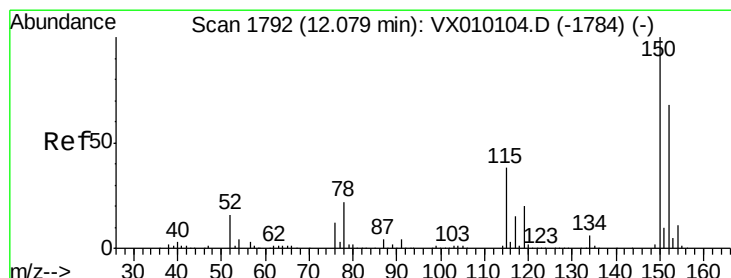
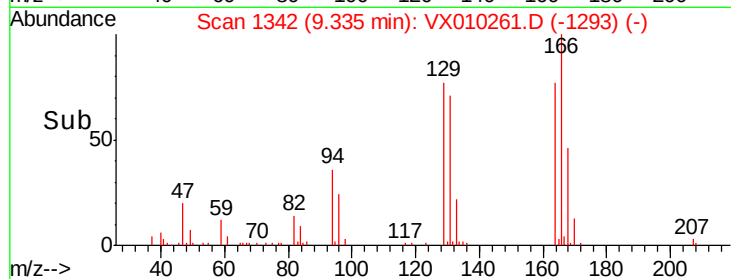
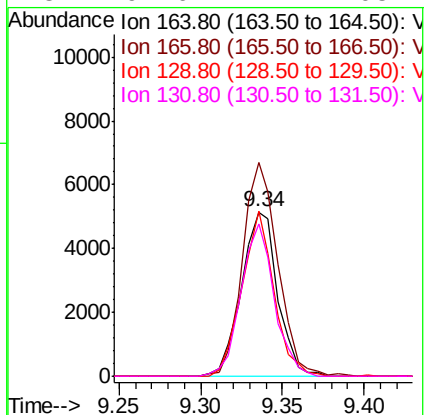
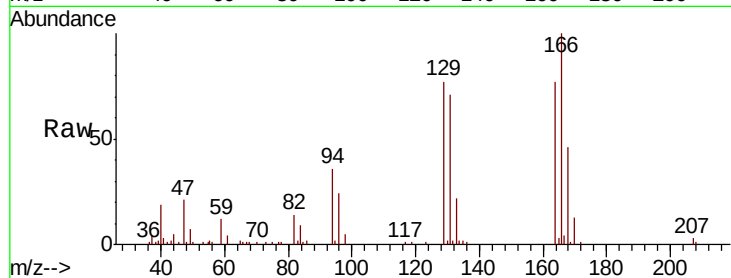




#64
Tetrachloroethene
Concen: 2.594 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX010261.D
Acq: 12 Jun 2019 19:18

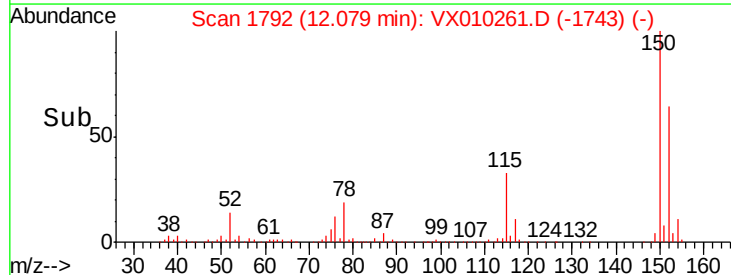
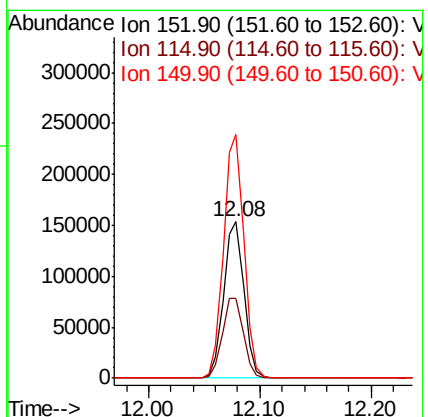
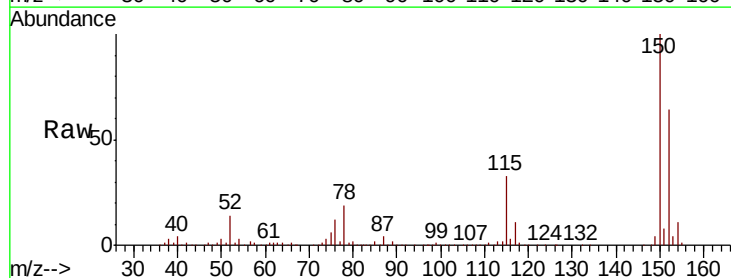
Instrument :
MSVOA_X
ClientSampleId :
RE104D1-20190607

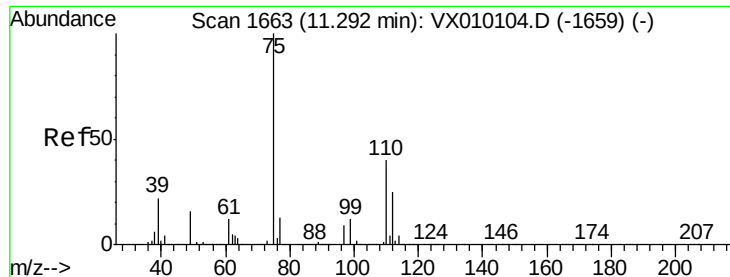
Tot Ion:164 Resp: 7963
Ion Ratio Lower Upper
164 100
166 130.2 105.0 157.4
129 100.4 75.1 112.7
131 92.6 72.2 108.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX010261.D
Acq: 12 Jun 2019 19:18

Tgt Ion:152 Resp: 193118
Ion Ratio Lower Upper
152 100
115 53.5 41.4 124.2
150 156.3 0.0 345.2





#76

1,2,3-Trichloropropane

Concen: 21.750 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010261.D

Acq: 12 Jun 2019 19:18

Instrument :

MSVOA_X

ClientSampleId :

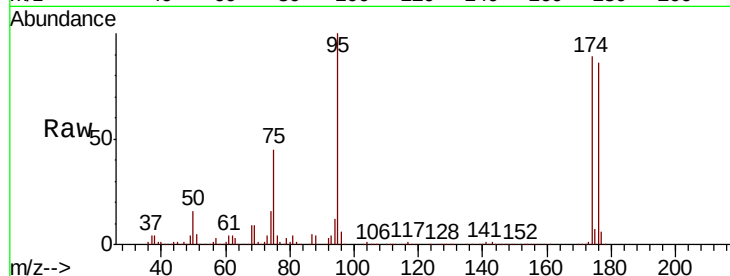
RE104D1-20190607

Tot Ion: 75 Resp: 84015

Ion Ratio Lower Upper

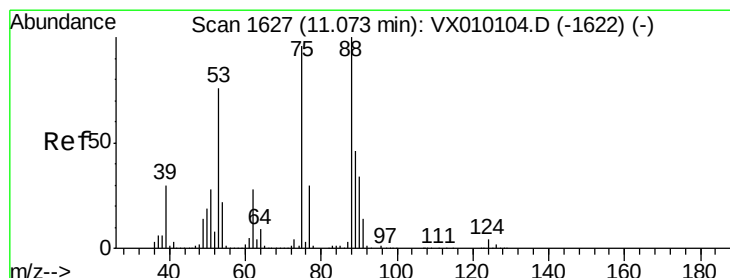
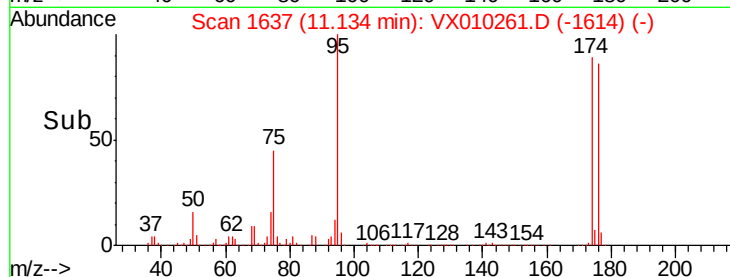
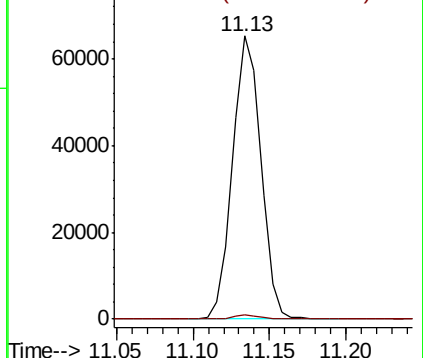
75 100

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: 48.055 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010261.D

Acq: 12 Jun 2019 19:18

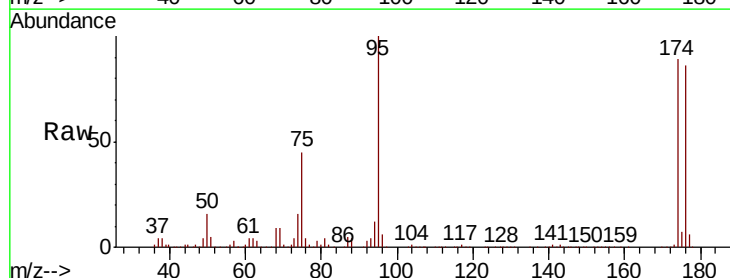
Tgt Ion: 75 Resp: 84015

Ion Ratio Lower Upper

75 100

53 0.2 79.8 119.6#

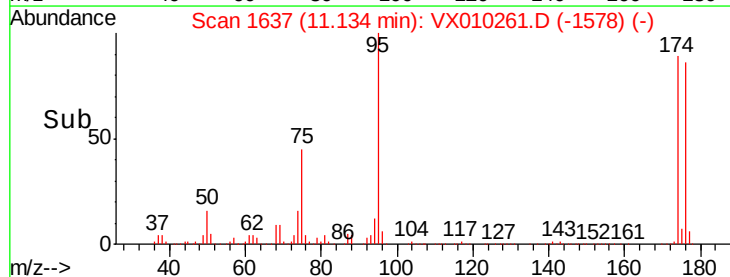
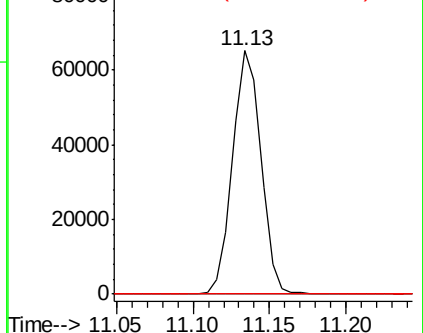
89 0.0 34.2 51.4#

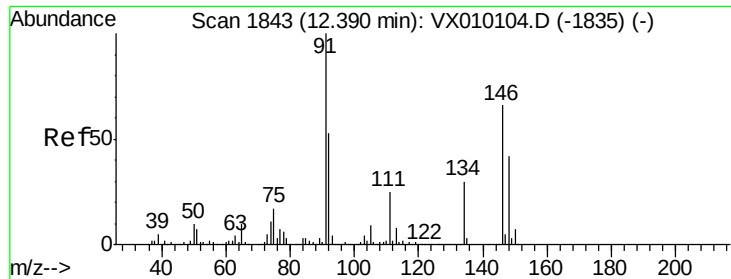


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#91

1,2-Dichlorobenzene

Concen: 0.222 ug/l

RT: 12.39 min Scan# 1843

Delta R.T. -0.00 min

Lab File: VX010261.D

Acq: 12 Jun 2019 19:18

Instrument :

MSVOA_X

ClientSampleId :

RE104D1-20190607

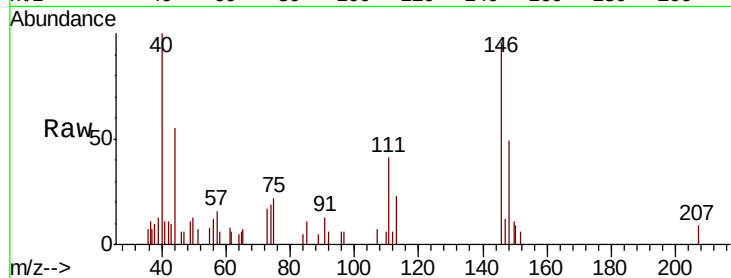
Tot Ion:146 Resp: 1407

Ion Ratio Lower Upper

146 100

111 46.3 21.1 63.1

148 57.0 32.3 96.8



Abundance

Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

