

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061019\
 Data File : VX010204.D
 Acq On : 11 Jun 2019 02:40
 Operator : JC/SP
 Sample : K3255-22
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE103D2-20190605

Quant Time: Jun 11 06:19:48 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	249803	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	377633	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	335307	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	154165	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	111460	45.71	ug/l	0.00
Spiked Amount			Recovery	=	91.42%	
35) Dibromofluoromethane	5.50	113	115647	49.65	ug/l	0.00
Spiked Amount			Recovery	=	99.30%	
50) Toluene-d8	8.71	98	441059	50.52	ug/l	0.00
Spiked Amount			Recovery	=	101.04%	
62) 4-Bromofluorobenzene	11.13	95	149192	45.76	ug/l	0.00
Spiked Amount			Recovery	=	91.52%	

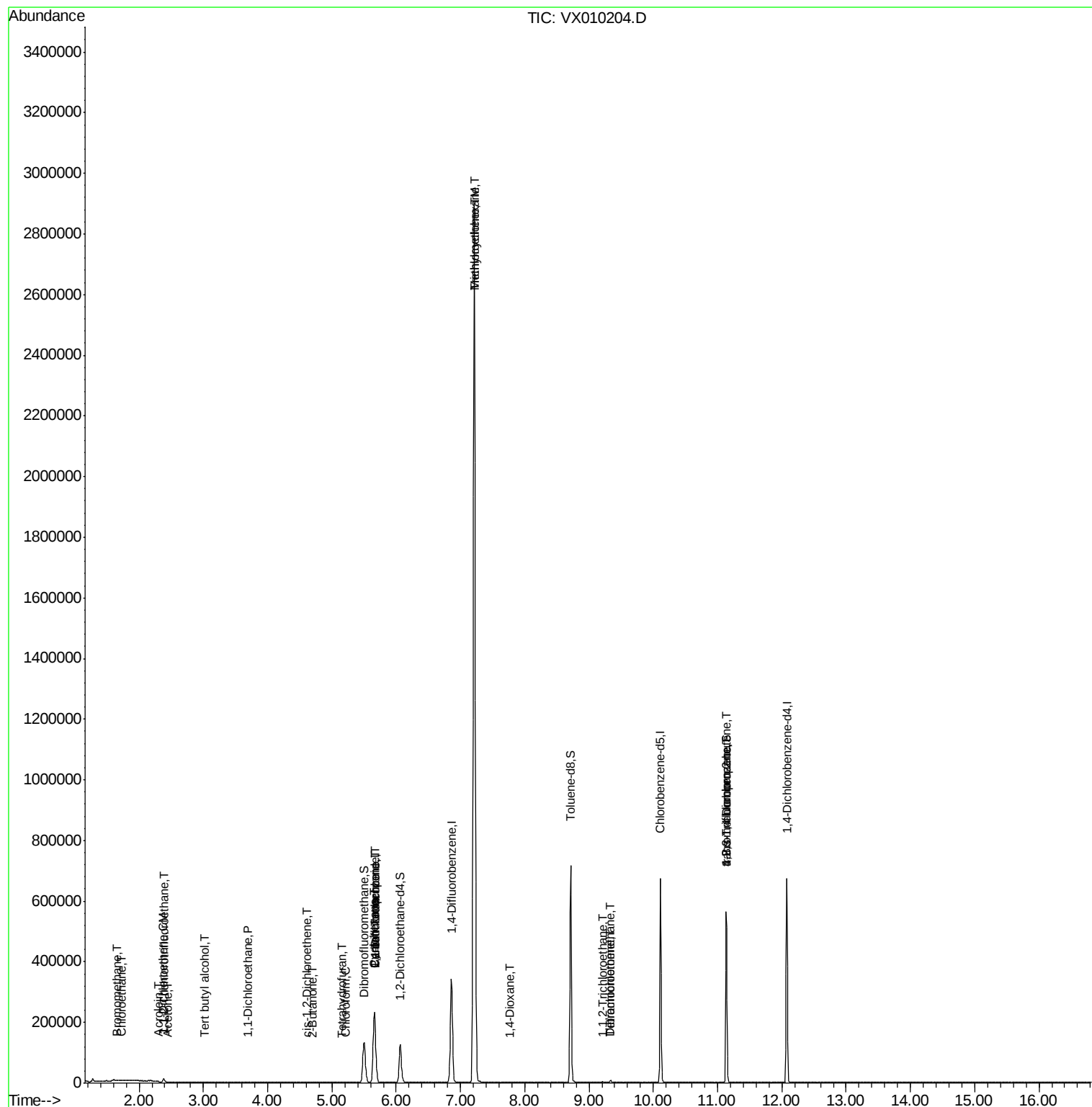
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	457	0.564	ug/l	90
6) Chloroethane	1.73	64	323	0.299	ug/l #	80
9) 1,1,2-Trichlorotrifluoroet	2.39	101	3759	1.711	ug/l	90
11) Tert butyl alcohol	3.01	59	1425	2.386	ug/l	95
12) 1,1-Dichloroethene	2.37	96	1042	0.464	ug/l #	69
13) Acrolein	2.31	56	131	1.203	ug/l #	14
16) Acetone	2.45	43	846	0.738	ug/l	94
24) 1,1-Dichloroethane	3.70	63	1540	0.392	ug/l #	87
25) 2-Butanone	4.68	43	409	0.239	ug/l #	54
27) cis-1,2-Dichloroethene	4.60	96	1452	0.526	ug/l	78
29) Tetrahydrofuran	5.15	42	584	0.544	ug/l #	82
30) Chloroform	5.21	83	2469	0.605	ug/l #	82
31) Cyclohexane	5.65	56	4034	1.137	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	14799	4.803	ug/l #	52
38) Carbon Tetrachloride	5.66	117	21741	6.234	ug/l #	17
39) Methylcyclohexane	7.21	83	12787	3.048	ug/l #	1
44) Trichloroethene	7.21	130	1185434	412.807	ug/l	89
49) 1,4-Dioxane	7.76	88	156	2.183	ug/l #	67
55) 1,1,2-Trichloroethane	9.21	97	901	0.351	ug/l #	80
60) Dibromochloromethane	9.34	129	1263	0.416	ug/l #	11
64) Tetrachloroethene	9.34	164	1401	0.563	ug/l	95
76) 1,2,3-Trichloropropane	11.13	75	66742	21.644	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	66742	47.821	ug/l #	10

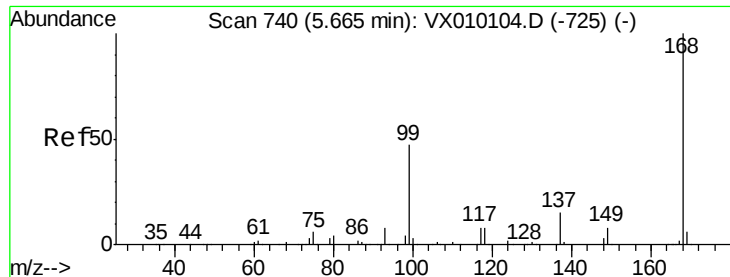
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX010204.D

Acq: 11 Jun 2019 02:40

Instrument :

MSVOA_X

ClientSampleId :

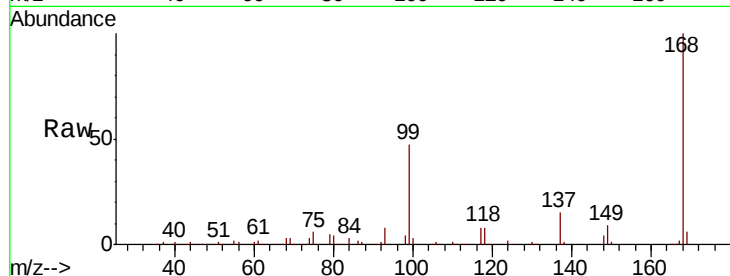
RE103D2-20190605

Tot Ion:168 Resp: 249803

Ion Ratio Lower Upper

168 100

99 46.9 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

80000

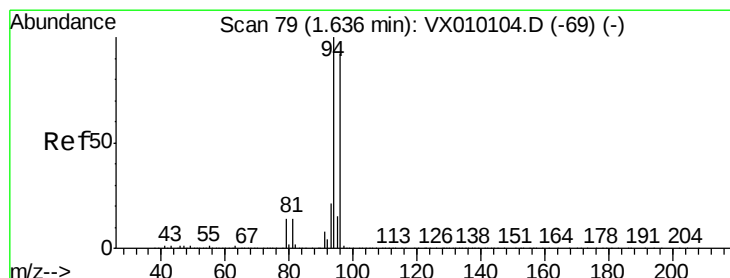
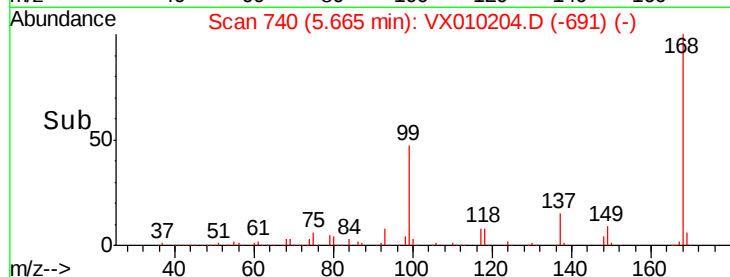
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.564 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX010204.D

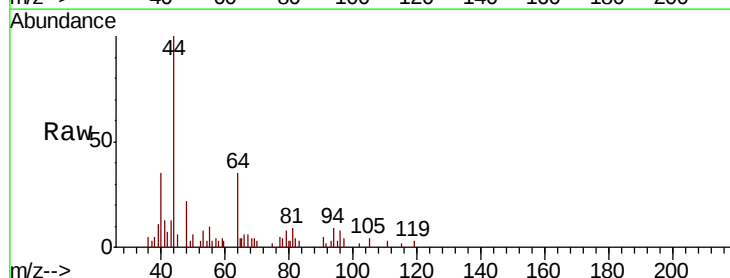
Acq: 11 Jun 2019 02:40

Tgt Ion: 94 Resp: 457

Ion Ratio Lower Upper

94 100

96 85.9 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

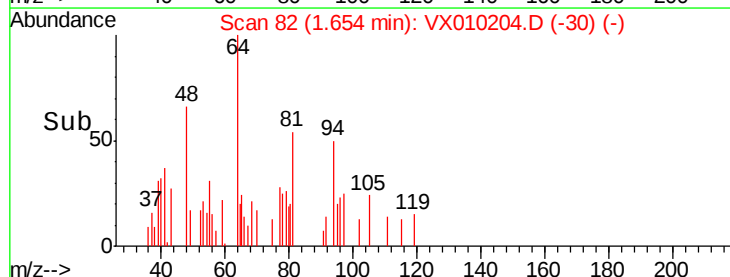
150

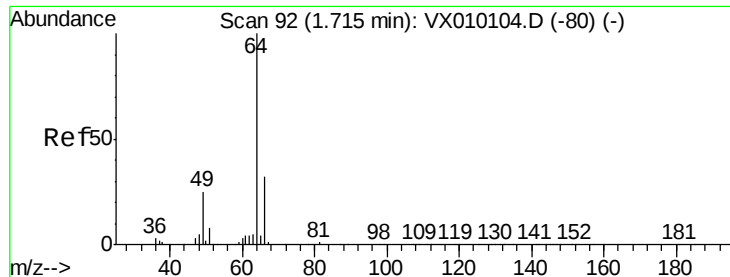
100

50

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: 0.299 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX010204.D

Acq: 11 Jun 2019 02:40

Instrument :

MSVOA_X

ClientSampleId :

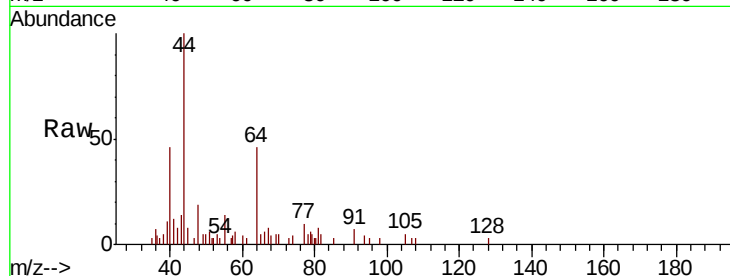
RE103D2-20190605

Tot Ion: 64 Resp: 323

Ion Ratio Lower Upper

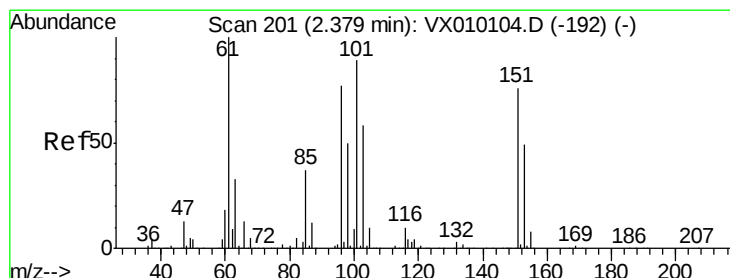
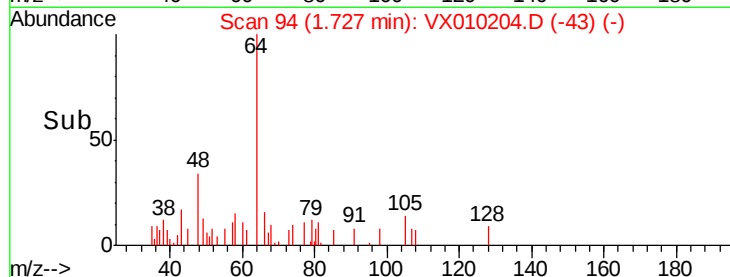
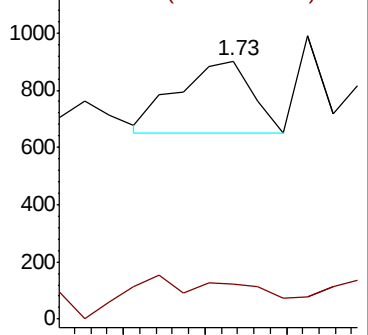
64 100

66 20.1 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.711 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.01 min

Lab File: VX010204.D

Acq: 11 Jun 2019 02:40

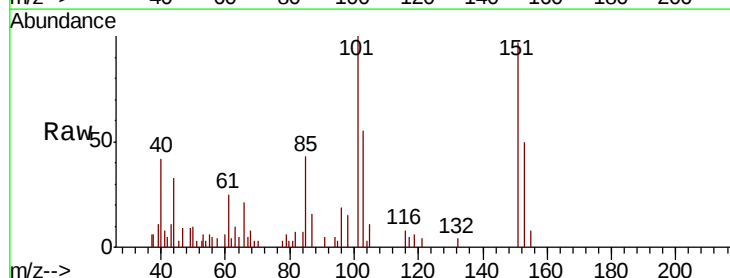
Tgt Ion:101 Resp: 3759

Ion Ratio Lower Upper

101 100

85 44.3 35.2 52.8

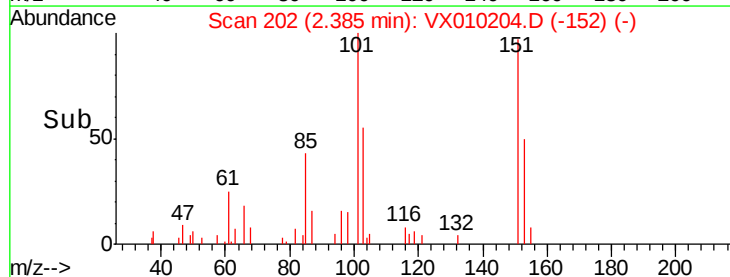
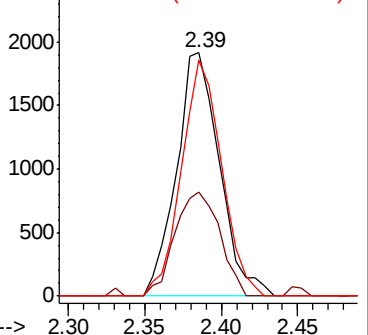
151 90.2 61.9 92.9

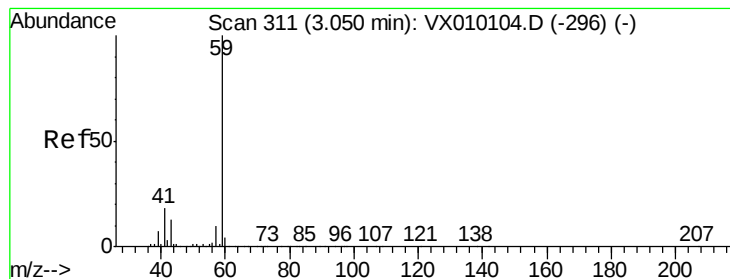


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



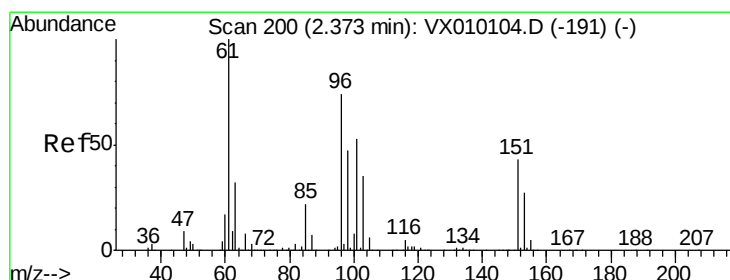
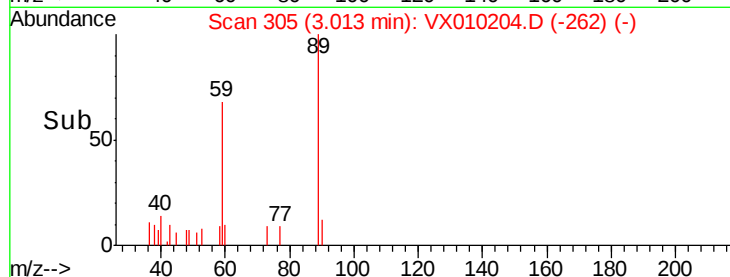
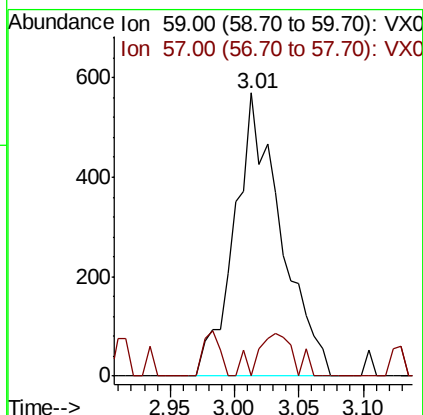
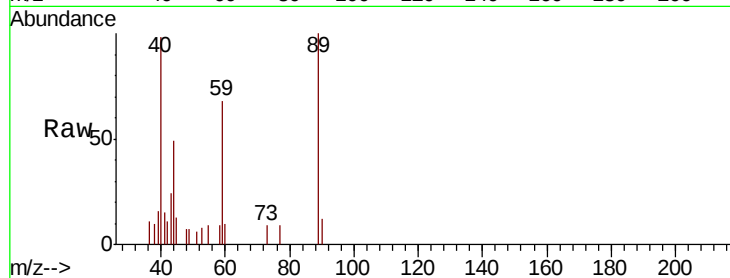


#11

Tert butyl alcohol
 Concen: 2.386 ug/l
 RT: 3.01 min Scan# 305
 Delta R.T. -0.04 min
 Lab File: VX010204.D
 Acq: 11 Jun 2019 02:40

Instrument :
 MSVOA_X
 ClientSampleId :
 RE103D2-20190605

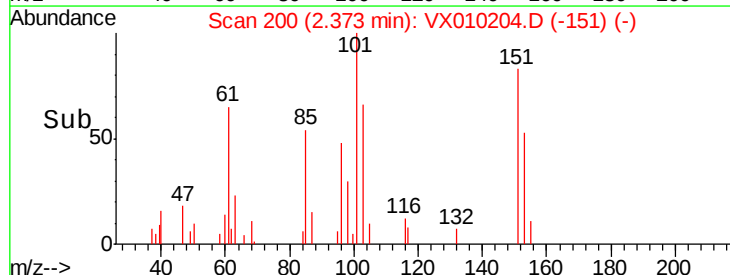
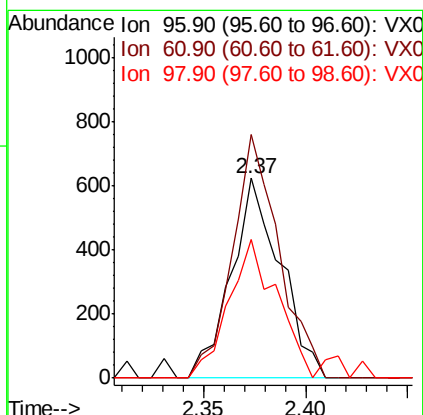
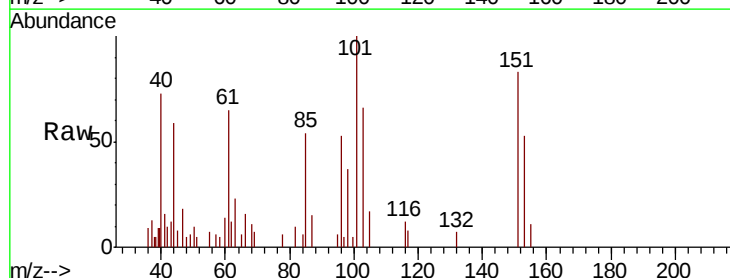
Tot Ion: 59 Resp: 1425
 Ion Ratio Lower Upper
 59 100
 57 12.0 8.2 12.2

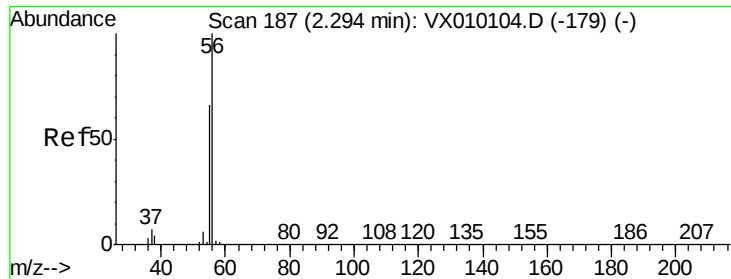


#12

1,1-Dichloroethene
 Concen: 0.464 ug/l
 RT: 2.37 min Scan# 200
 Delta R.T. -0.00 min
 Lab File: VX010204.D
 Acq: 11 Jun 2019 02:40

Tgt Ion: 96 Resp: 1042
 Ion Ratio Lower Upper
 96 100
 61 121.8 140.7 211.1#
 98 69.6 50.1 75.1





#13

Acrolein

Concen: 1.203 ug/l

RT: 2.31 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX010204.D

Acq: 11 Jun 2019 02:40

Instrument :

MSVOA_X

ClientSampleId :

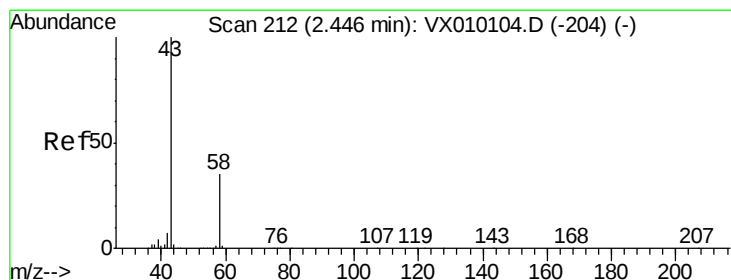
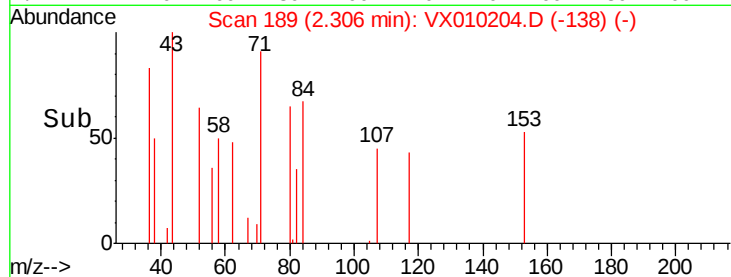
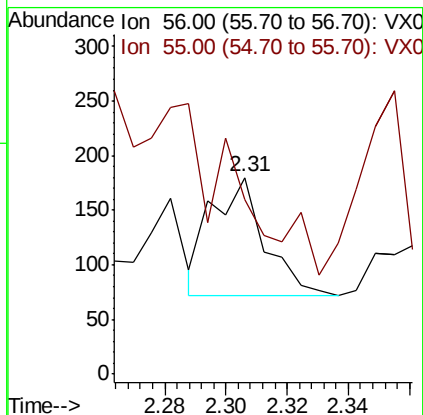
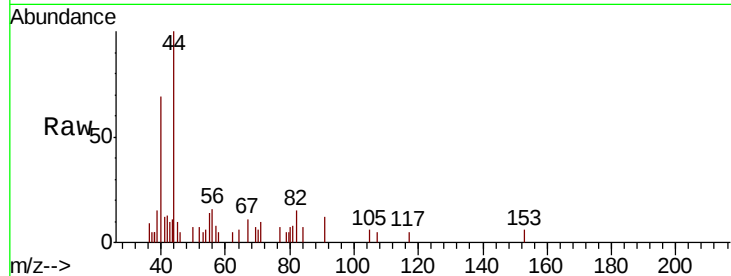
RE103D2-20190605

Tot Ion: 56 Resp: 131

Ion Ratio Lower Upper

56 100

55 0.0 57.0 85.4#



#16

Acetone

Concen: 0.738 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX010204.D

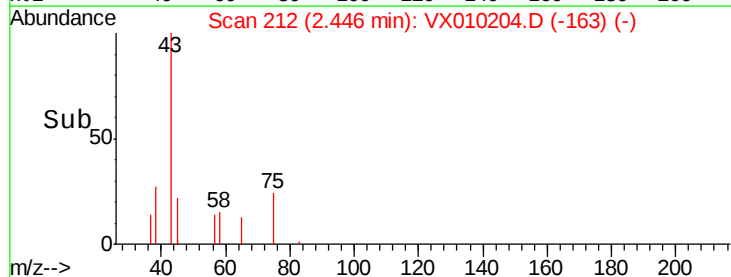
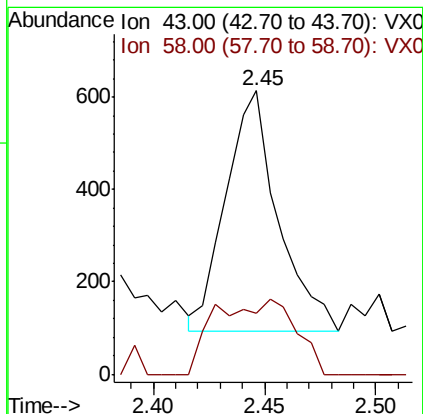
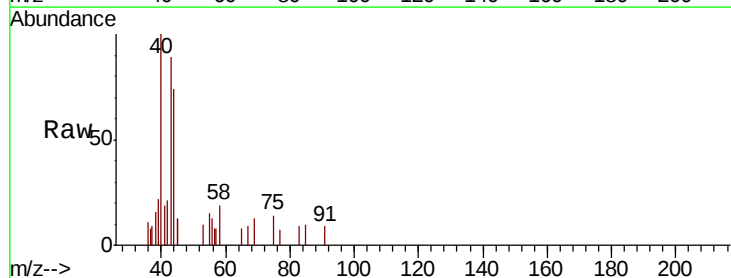
Acq: 11 Jun 2019 02:40

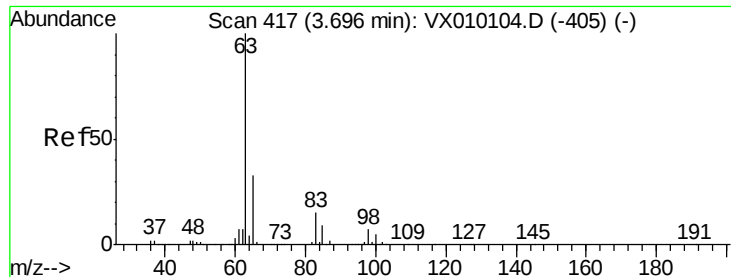
Tgt Ion: 43 Resp: 846

Ion Ratio Lower Upper

43 100

58 25.6 23.2 34.8





#24

1,1-Dichloroethane

Concen: 0.392 ug/l

RT: 3.70 min Scan# 417

Delta R.T. -0.00 min

Lab File: VX010204.D

Acq: 11 Jun 2019 02:40

Instrument :

MSVOA_X

ClientSampleId :

RE103D2-20190605

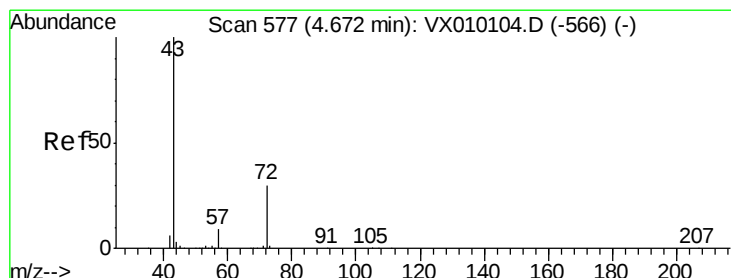
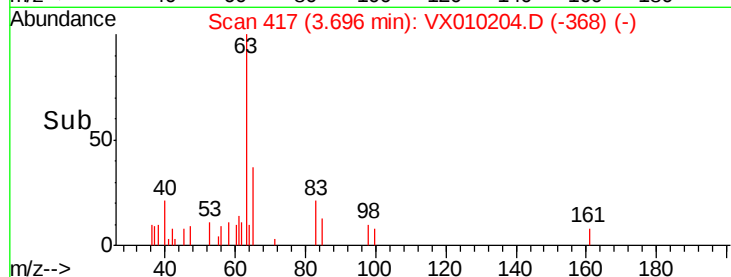
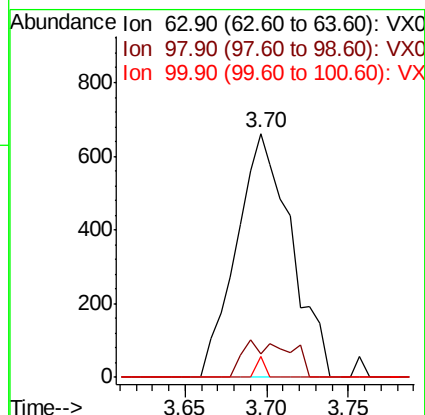
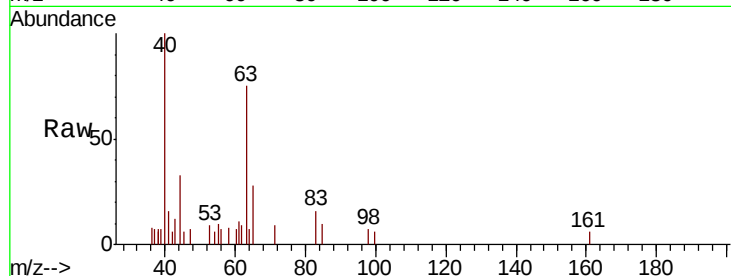
Tot Ion: 63 Resp: 1540

Ion Ratio Lower Upper

63 100

98 9.7 2.9 8.8#

100 8.5 1.8 5.4#



#25

2-Butanone

Concen: 0.239 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.01 min

Lab File: VX010204.D

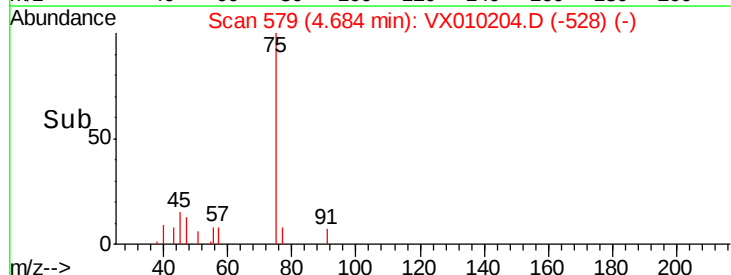
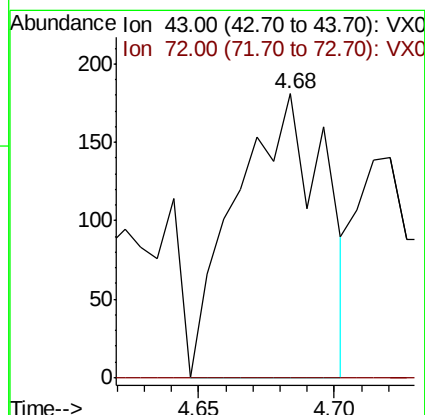
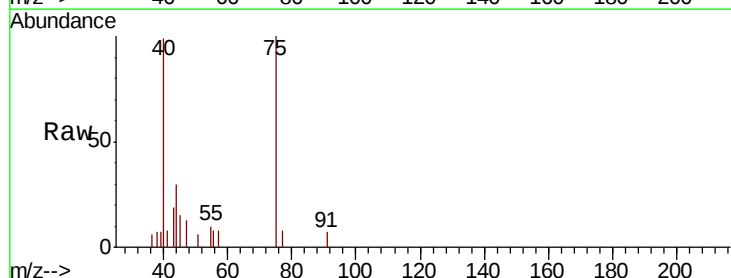
Acq: 11 Jun 2019 02:40

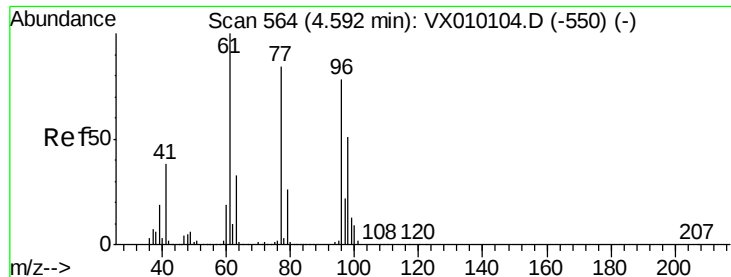
Tgt Ion: 43 Resp: 409

Ion Ratio Lower Upper

43 100

72 0.0 17.5 26.3#



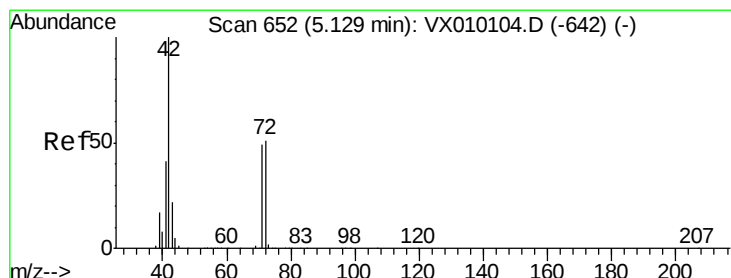
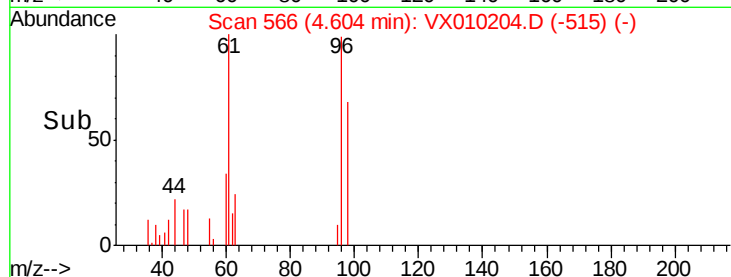
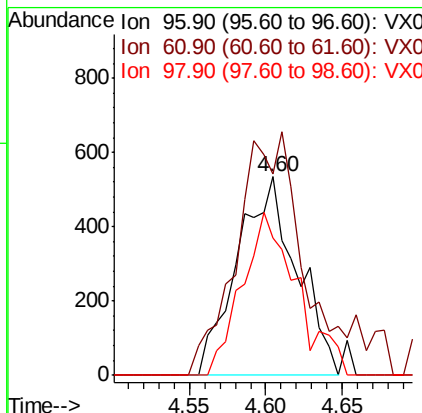
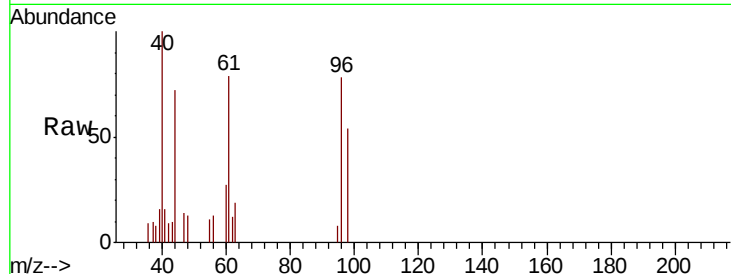


#27

cis-1,2-Dichloroethene
 Concen: 0.526 ug/l
 RT: 4.60 min Scan# 566
 Delta R.T. 0.01 min
 Lab File: VX010204.D
 Acq: 11 Jun 2019 02:40

Instrument :
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 ClientSampleId :
 RE103D2-20190605

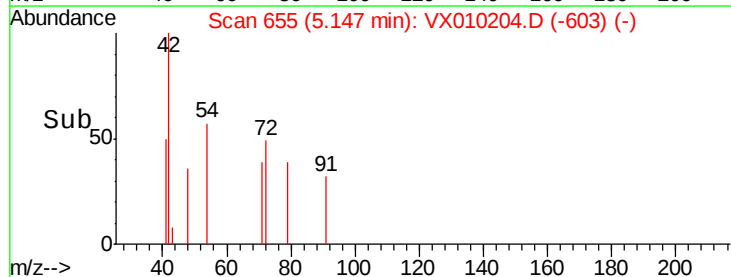
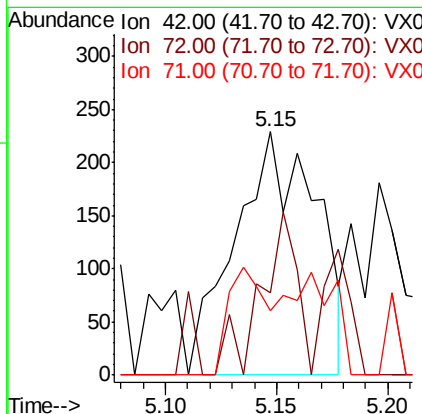
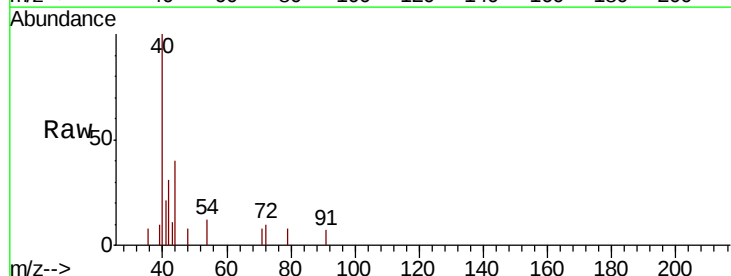
Tot Ion: 96 Resp: 1452
 Ion Ratio Lower Upper
 96 100
 61 132.7 0.0 334.0
 98 75.4 0.0 131.6

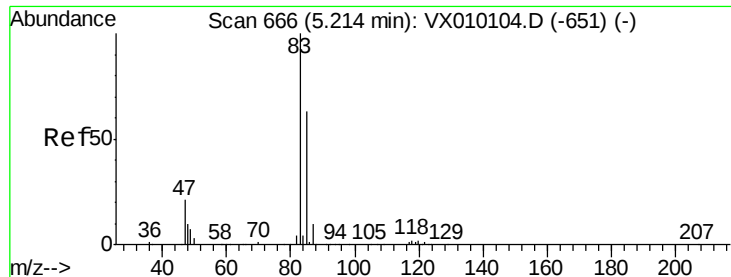


#29

Tetrahydrofuran
 Concen: 0.544 ug/l
 RT: 5.15 min Scan# 655
 Delta R.T. 0.02 min
 Lab File: VX010204.D
 Acq: 11 Jun 2019 02:40

Tgt Ion: 42 Resp: 584
 Ion Ratio Lower Upper
 42 100
 72 29.6 29.2 43.8
 71 20.4 27.6 41.4#

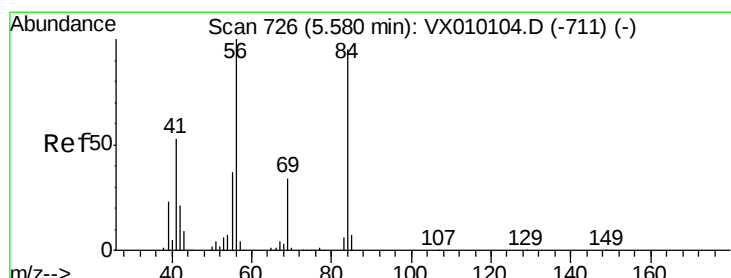
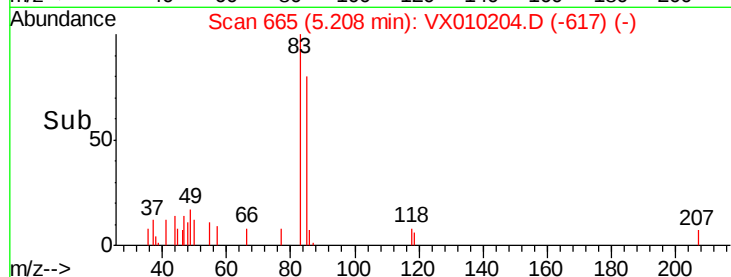
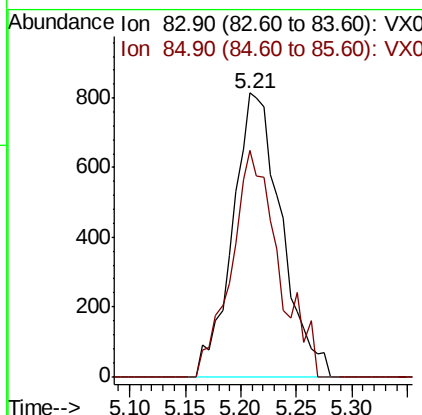
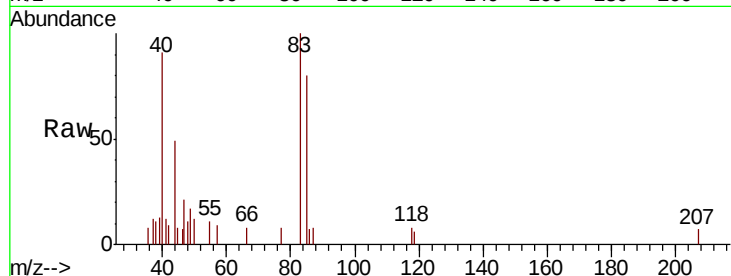




#30
Chloroform
Concen: 0.605 ug/l
RT: 5.21 min Scan# 665
Delta R.T. -0.01 min
Lab File: VX010204.D
Acq: 11 Jun 2019 02:40

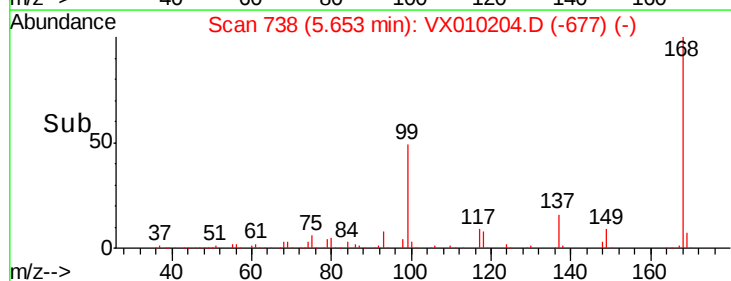
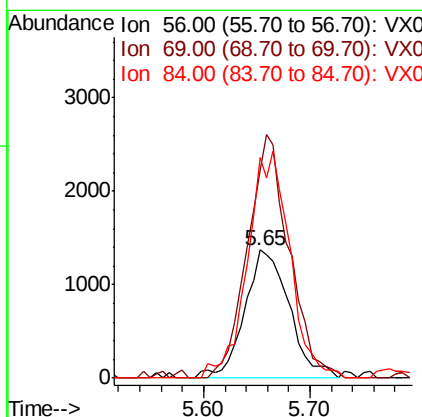
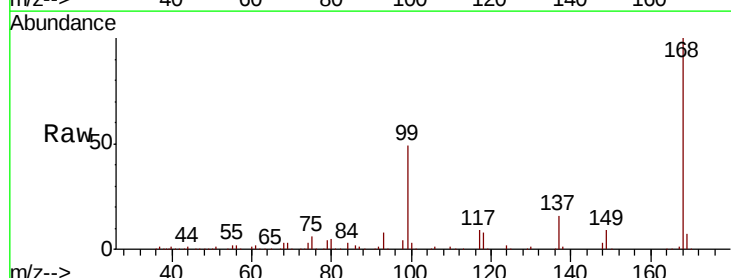
Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20190605

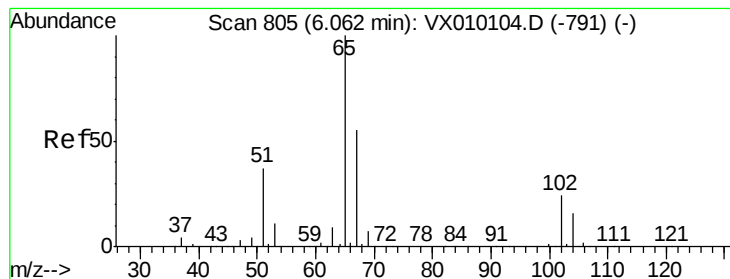
Tot Ion: 83 Resp: 2469
Ion Ratio Lower Upper
83 100
85 79.6 52.6 78.8#



#31
Cyclohexane
Concen: 1.137 ug/l
RT: 5.65 min Scan# 738
Delta R.T. 0.07 min
Lab File: VX010204.D
Acq: 11 Jun 2019 02:40

Tgt Ion: 56 Resp: 4034
Ion Ratio Lower Upper
56 100
69 162.1 21.6 32.4#
84 172.1 56.8 85.2#





#33

1,2-Dichloroethane-d4

Concen: 45.711 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010204.D

Acq: 11 Jun 2019 02:40

Instrument :

MSVOA_X

ClientSampleId :

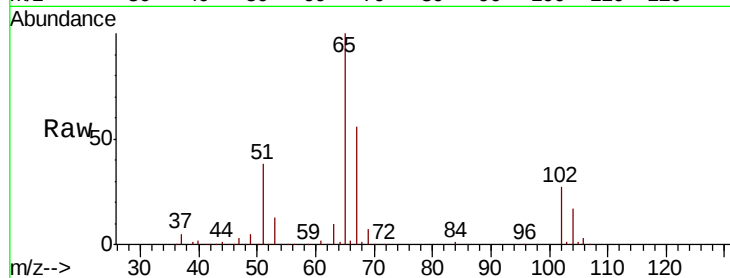
RE103D2-20190605

Tot Ion: 65 Resp: 111460

Ion Ratio Lower Upper

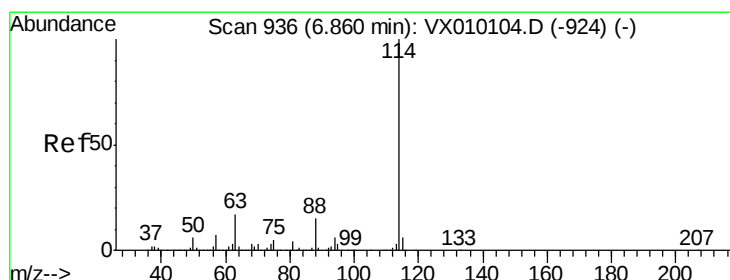
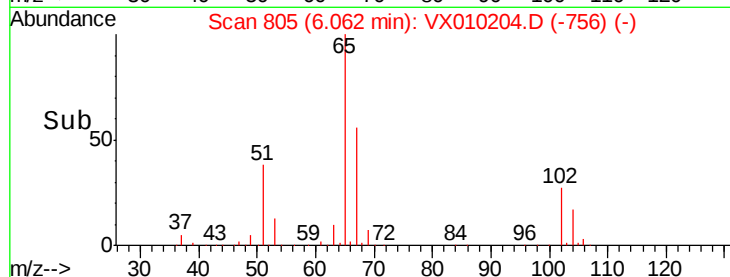
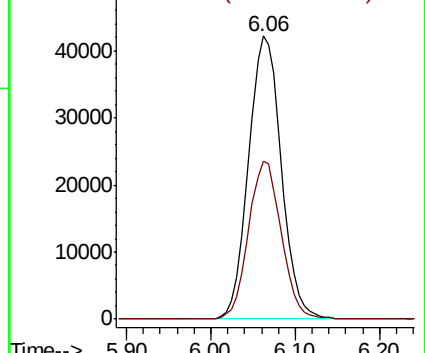
65 100

67 55.8 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: VX010204.D

Acq: 11 Jun 2019 02:40

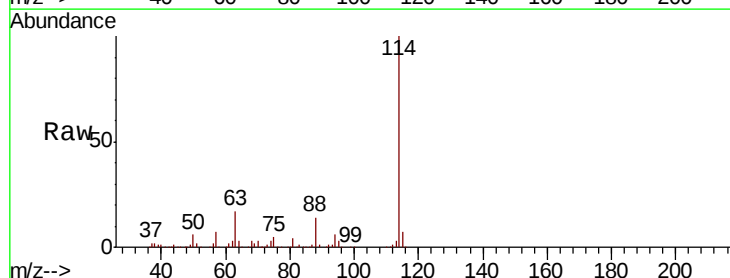
Tgt Ion: 114 Resp: 377633

Ion Ratio Lower Upper

114 100

63 16.9 0.0 47.4

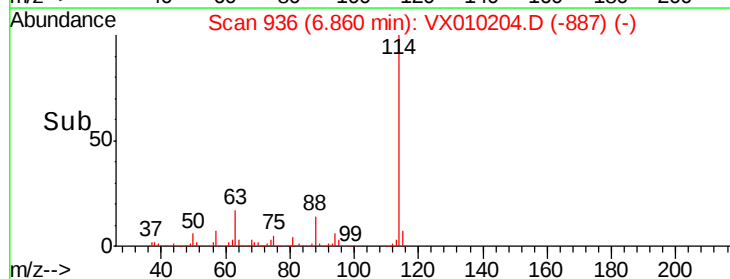
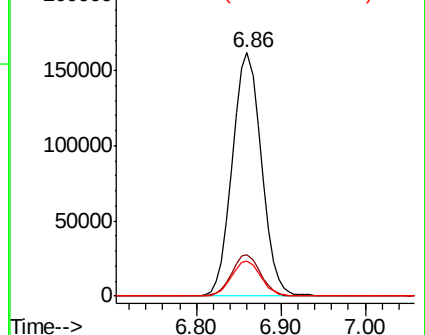
88 14.5 0.0 33.0

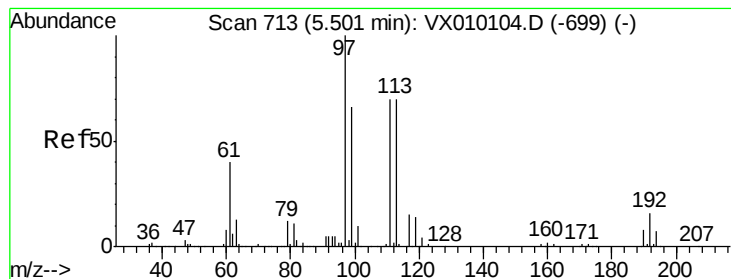


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 49.648 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX010204.D

Acq: 11 Jun 2019 02:40

Instrument :

MSVOA_X

ClientSampleId :

RE103D2-20190605

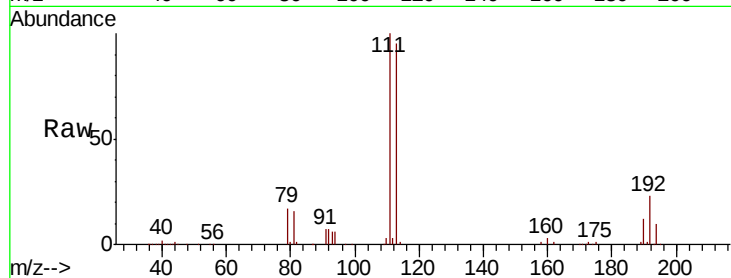
Tot Ion:113 Resp: 115647

Ion Ratio Lower Upper

113 100

111 101.6 82.2 123.2

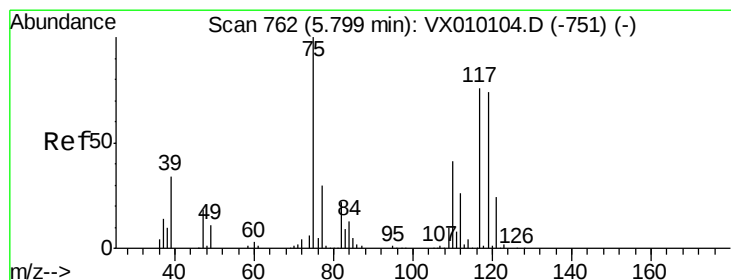
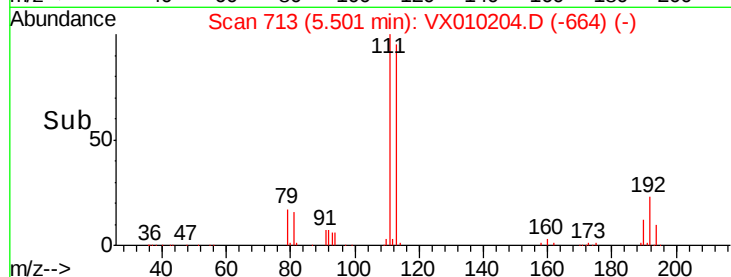
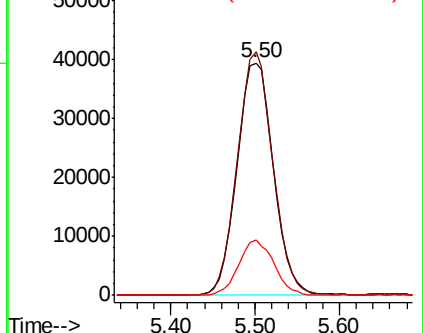
192 22.9 17.1 25.7



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: 4.803 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX010204.D

Acq: 11 Jun 2019 02:40

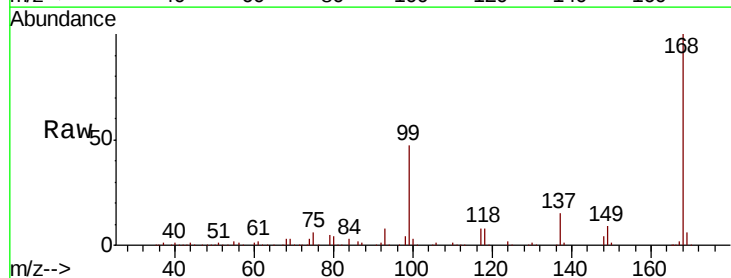
Tgt Ion: 75 Resp: 14799

Ion Ratio Lower Upper

75 100

110 10.5 16.7 50.1#

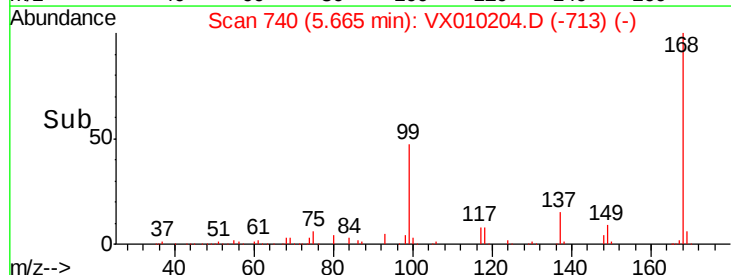
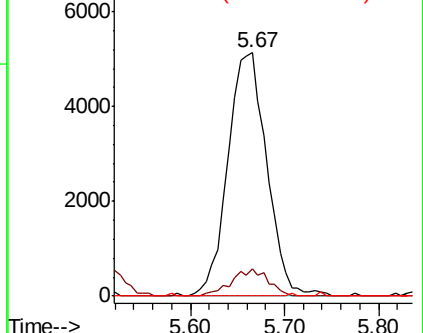
77 0.0 25.0 37.4#

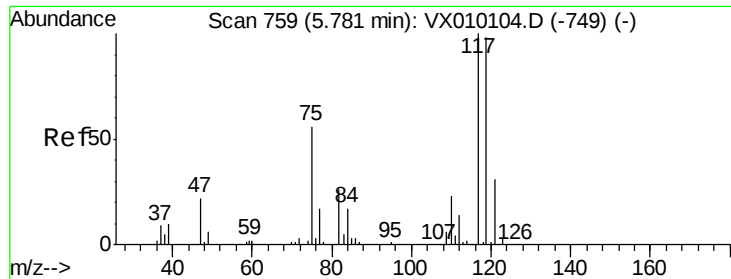


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

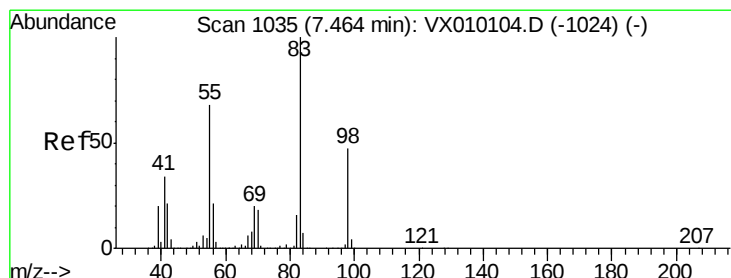
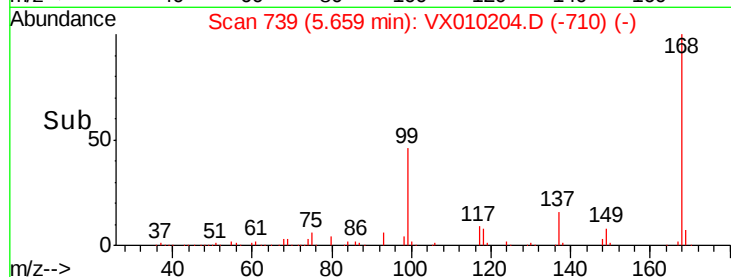
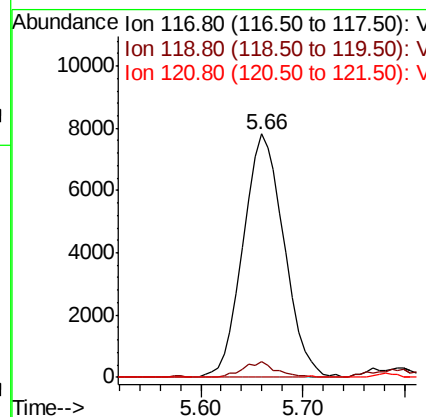
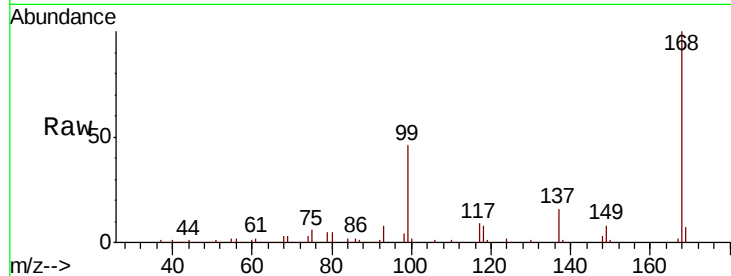




#38
Carbon Tetrachloride
Concen: 6.234 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.12 min
Lab File: VX010204.D
Acq: 11 Jun 2019 02:40

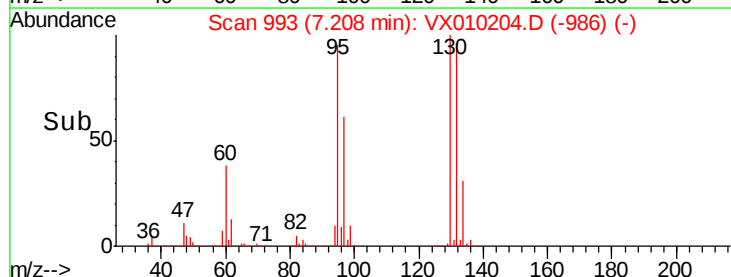
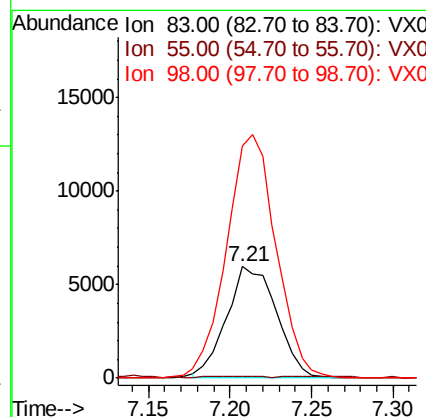
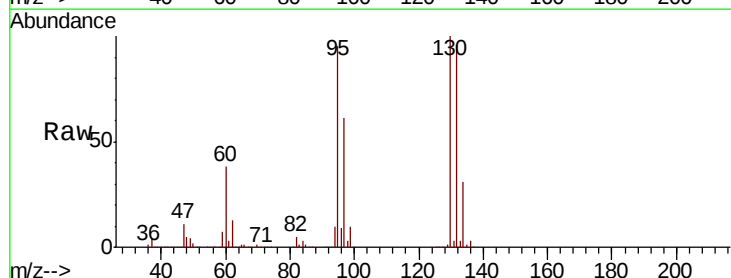
Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20190605

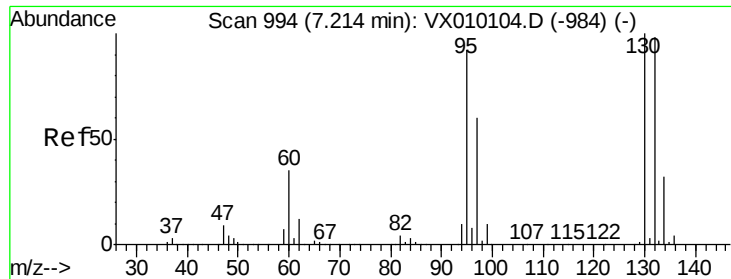
Tot Ion:117 Resp: 21741
Ion Ratio Lower Upper
117 100
119 6.3 77.3 115.9#
121 0.0 25.4 38.0#



#39
Methylcyclohexane
Concen: 3.048 ug/l
RT: 7.21 min Scan# 993
Delta R.T. -0.26 min
Lab File: VX010204.D
Acq: 11 Jun 2019 02:40

Tgt Ion: 83 Resp: 12787
Ion Ratio Lower Upper
83 100
55 1.2 69.9 104.9#
98 207.6 35.1 52.7#

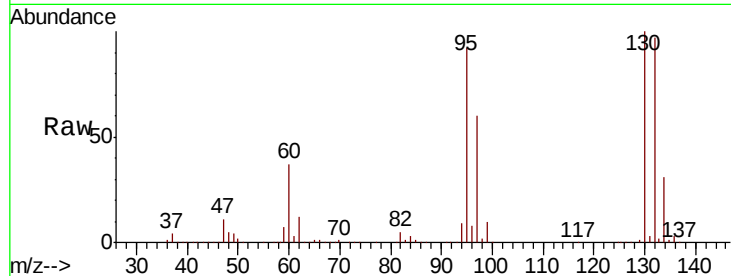




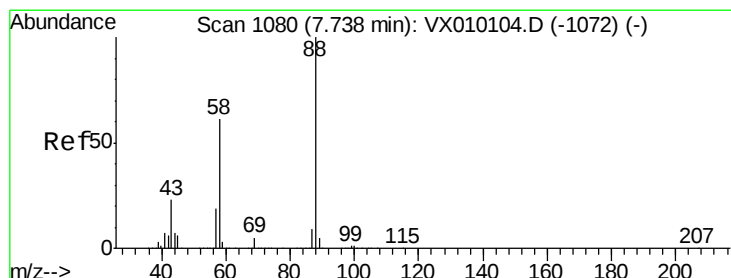
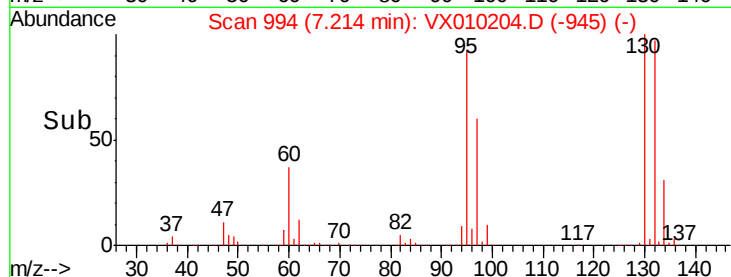
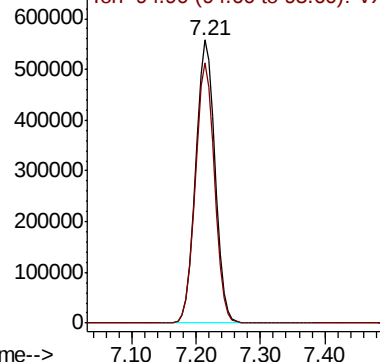
#44
 Trichloroethene
 Concen: 412.807 ug/l
 RT: 7.21 min Scan# 994
 Delta R.T. -0.00 min
 Lab File: VX010204.D
 Acq: 11 Jun 2019 02:40

Instrument :
 MSVOA_X
 ClientSampleId :
 RE103D2-20190605

Tot Ion:130 Resp: 1185434
 Ion Ratio Lower Upper
 130 100
 95 92.1 0.0 207.4

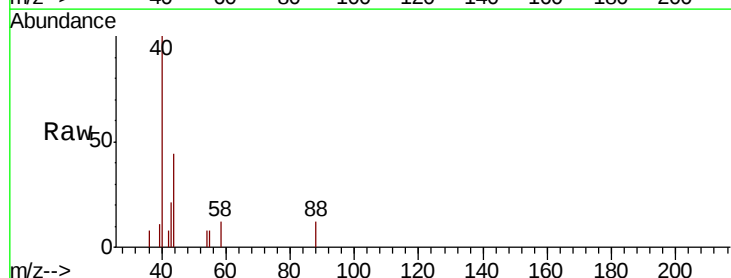


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0

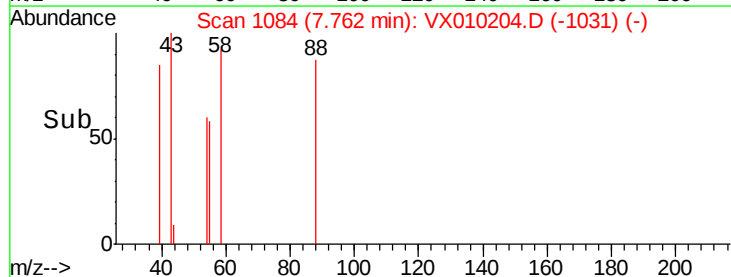
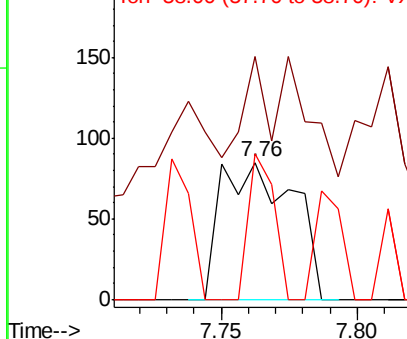


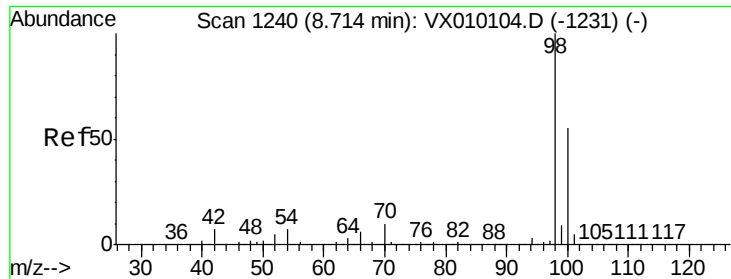
#49
 1,4-Dioxane
 Concen: 2.183 ug/l
 RT: 7.76 min Scan# 1084
 Delta R.T. 0.02 min
 Lab File: VX010204.D
 Acq: 11 Jun 2019 02:40

Tgt Ion: 88 Resp: 156
 Ion Ratio Lower Upper
 88 100
 43 36.5 30.2 45.4
 58 37.8 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: 50.522 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010204.D

Acq: 11 Jun 2019 02:40

Instrument :

MSVOA_X

ClientSampleId :

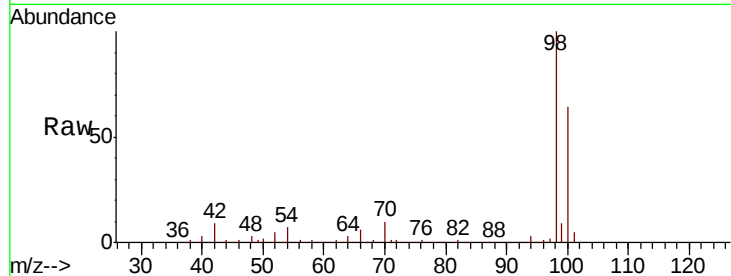
RE103D2-20190605

Tot Ion: 98 Resp: 441059

Ion Ratio Lower Upper

98 100

100 64.8 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

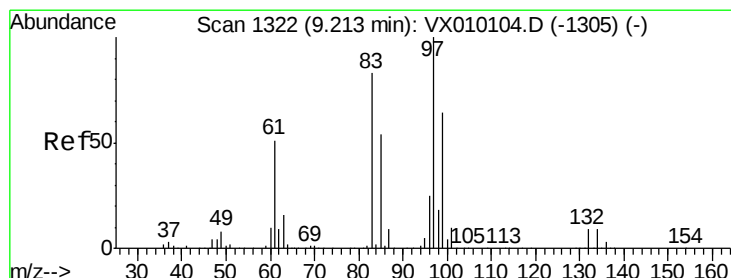
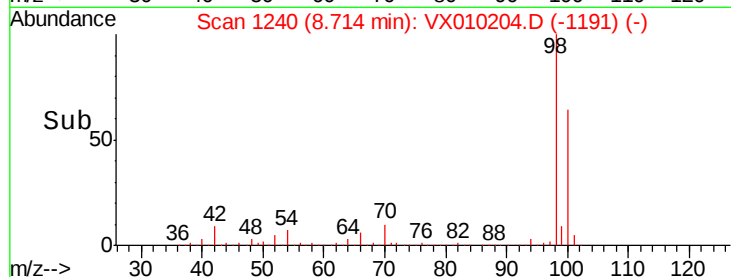
300000

200000

100000

0

Time-->



#55

1,1,2-Trichloroethane

Concen: 0.351 ug/l

RT: 9.21 min Scan# 1322

Delta R.T. -0.00 min

Lab File: VX010204.D

Acq: 11 Jun 2019 02:40

Tgt Ion: 97 Resp: 901

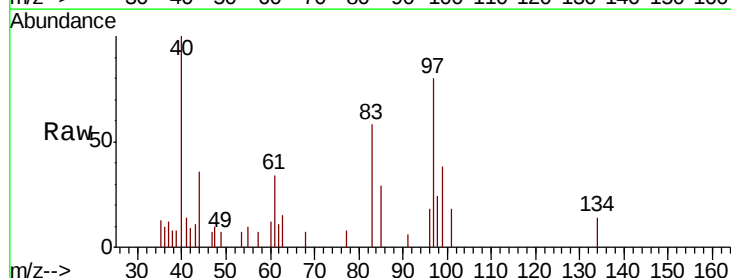
Ion Ratio Lower Upper

97 100

83 72.8 69.8 104.8

85 35.9 45.3 67.9#

99 47.8 49.0 73.4#



Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

1000

800

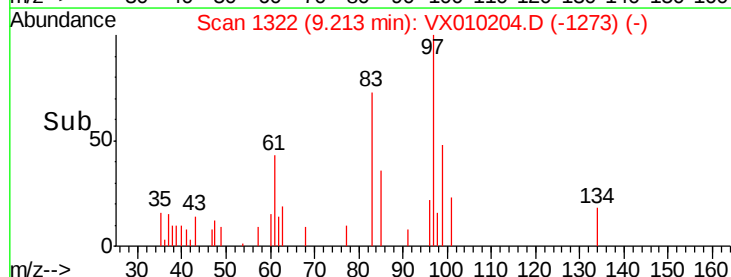
600

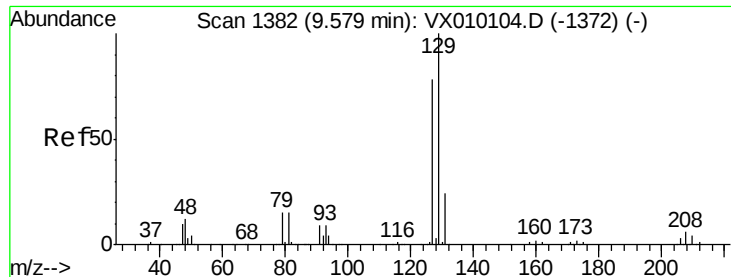
400

200

0

Time-->





#60

Dibromochloromethane

Concen: 0.416 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX010204.D

Acq: 11 Jun 2019 02:40

Instrument :

MSVOA_X

ClientSampleId :

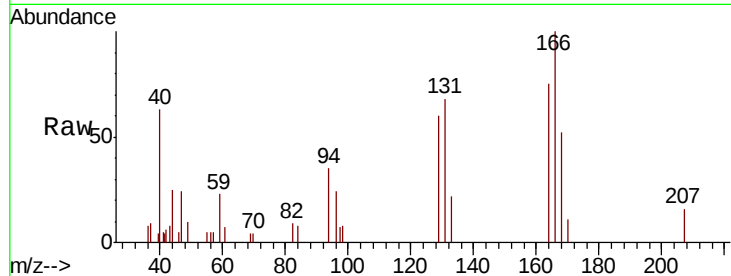
RE103D2-20190605

Tot Ion:129 Resp: 1263

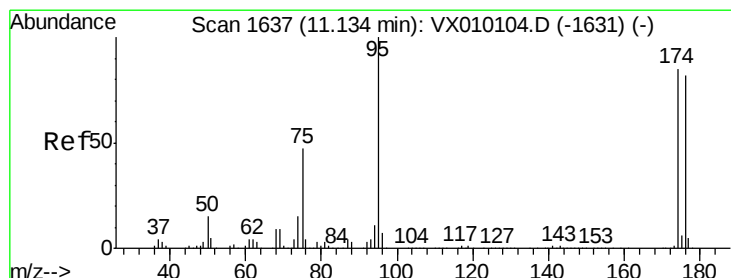
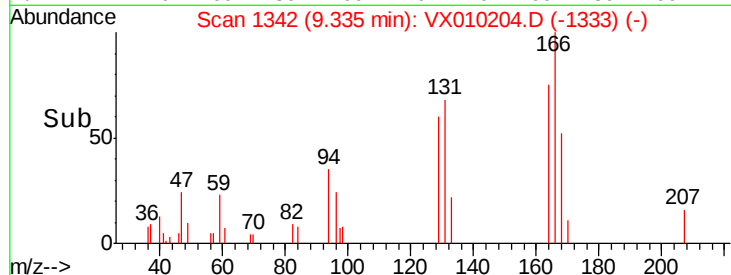
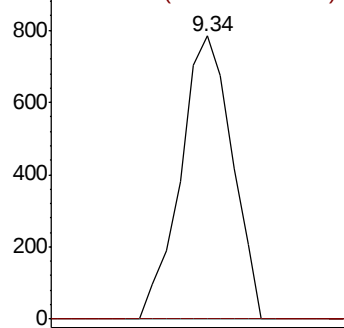
Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.5#



Abundance Ion 128.80 (128.50 to 129.50): V



#62

4-Bromofluorobenzene

Concen: 45.760 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010204.D

Acq: 11 Jun 2019 02:40

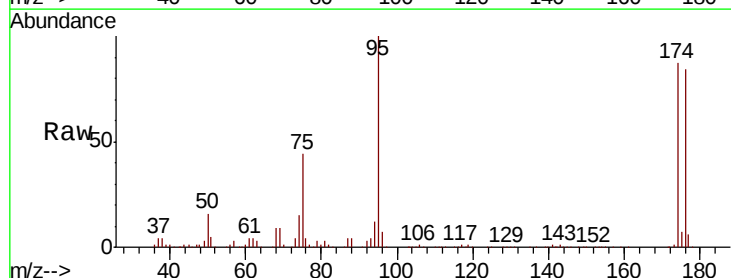
Tgt Ion: 95 Resp: 149192

Ion Ratio Lower Upper

95 100

174 94.0 0.0 160.4

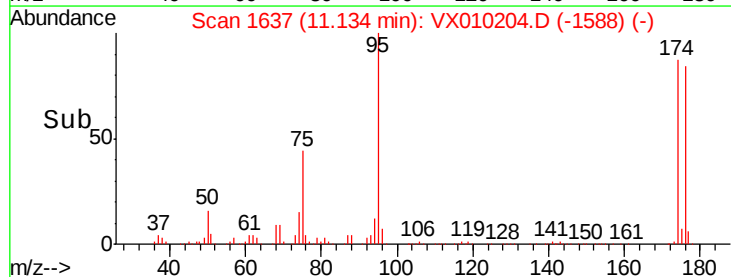
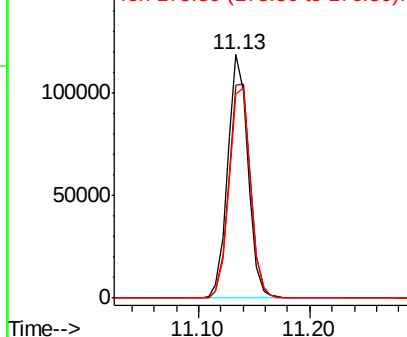
176 91.0 0.0 154.6

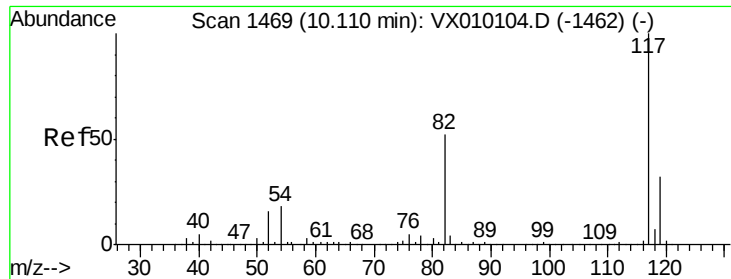


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

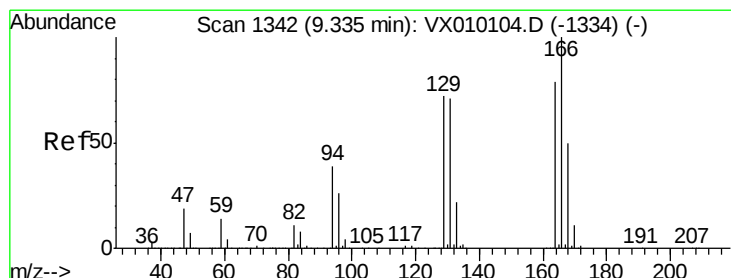
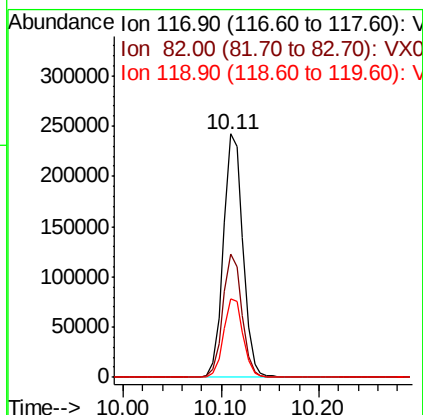
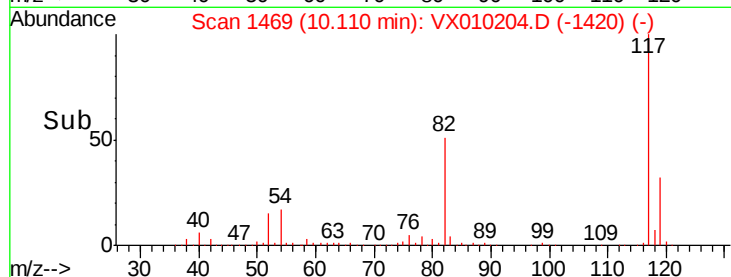
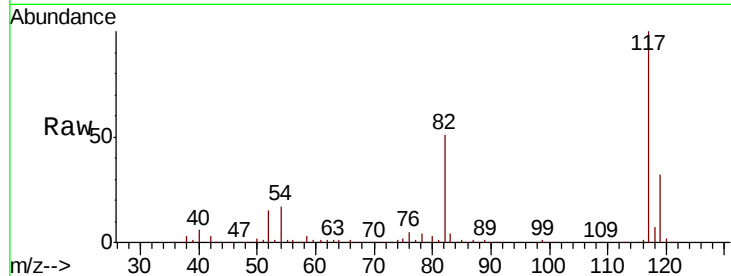




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX010204.D
Acq: 11 Jun 2019 02:40

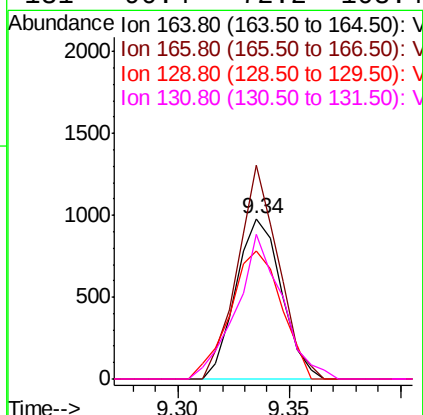
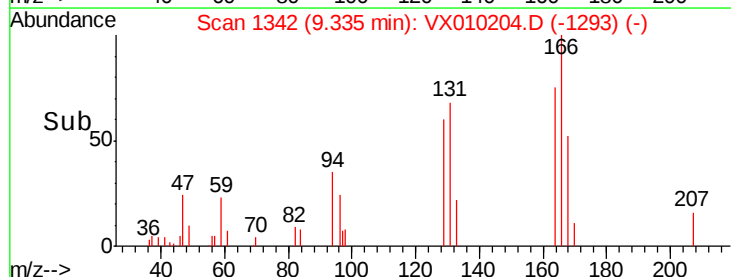
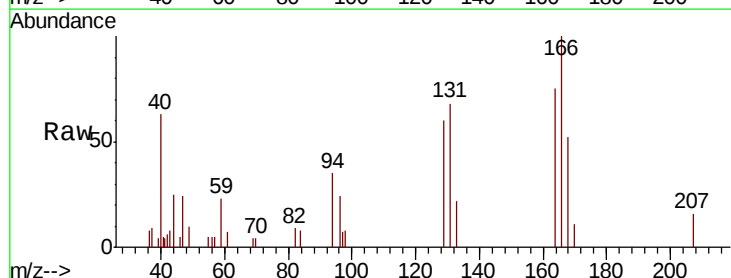
Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20190605

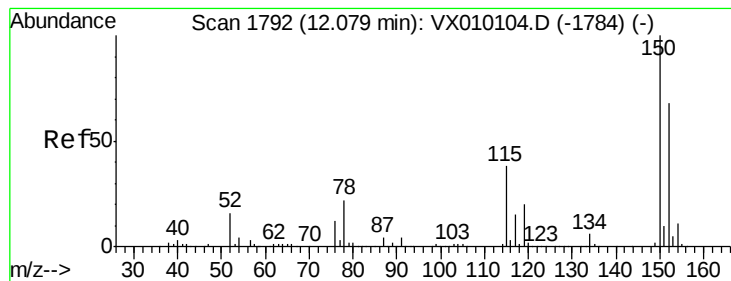
Tot Ion:117 Resp: 335307
Ion Ratio Lower Upper
117 100
82 50.9 49.2 73.8
119 32.4 25.2 37.8



#64
Tetrachloroethene
Concen: 0.563 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX010204.D
Acq: 11 Jun 2019 02:40

Tgt Ion:164 Resp: 1401
Ion Ratio Lower Upper
164 100
166 133.2 105.0 157.4
129 80.0 75.1 112.7
131 90.4 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: VX010204.D

Acq: 11 Jun 2019 02:40

Instrument :

MSVOA_X

ClientSampleId :

RE103D2-20190605

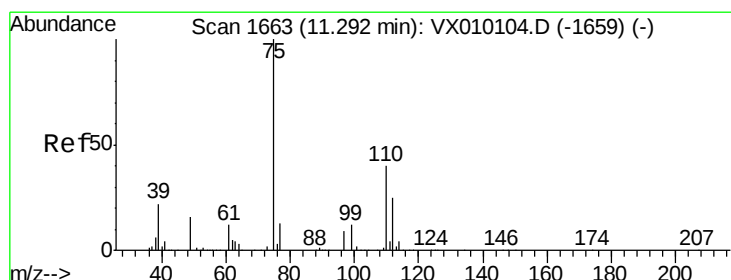
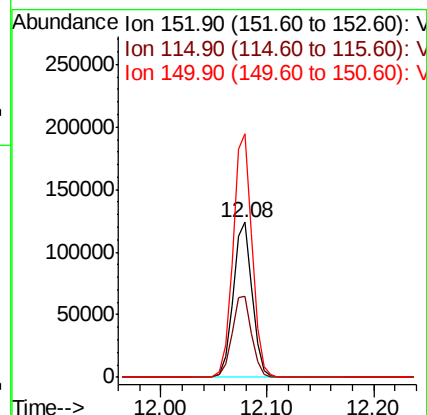
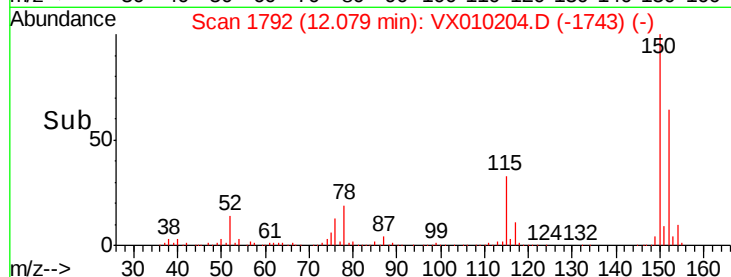
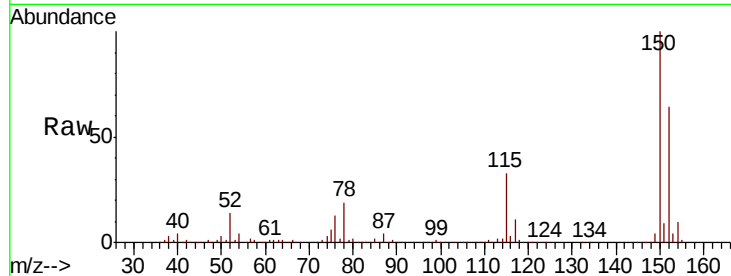
Tot Ion:152 Resp: 154165

Ion Ratio Lower Upper

152 100

115 53.9 41.4 124.2

150 157.9 0.0 345.2



#76

1,2,3-Trichloropropane

Concen: 21.644 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010204.D

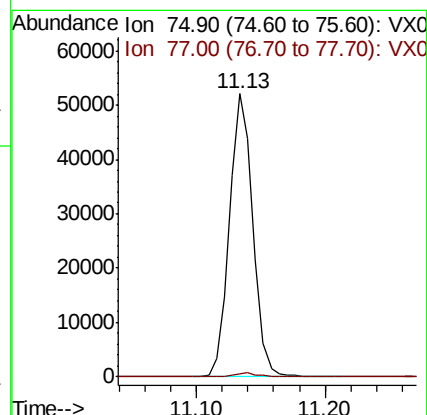
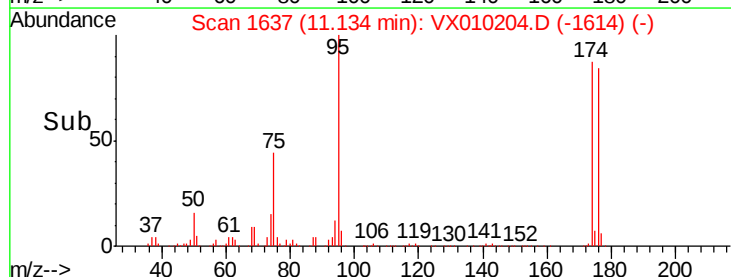
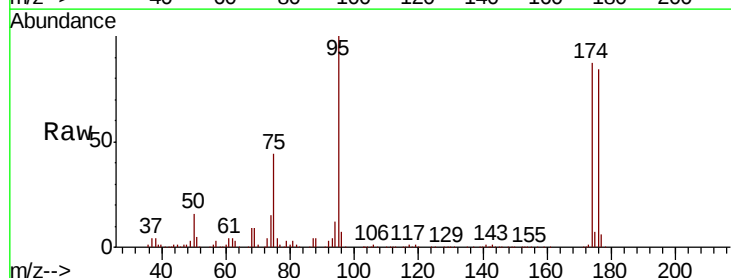
Acq: 11 Jun 2019 02:40

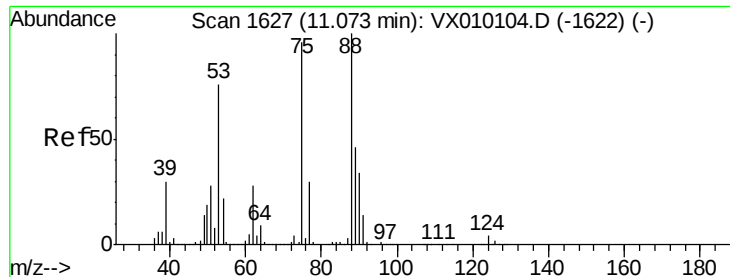
Tgt Ion: 75 Resp: 66742

Ion Ratio Lower Upper

75 100

77 1.4 22.1 66.1#





#81

trans-1,4-Dichloro-2-butene

Concen: 47.821 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010204.D

Acq: 11 Jun 2019 02:40

Instrument :

MSVOA_X

ClientSampleId :

RE103D2-20190605

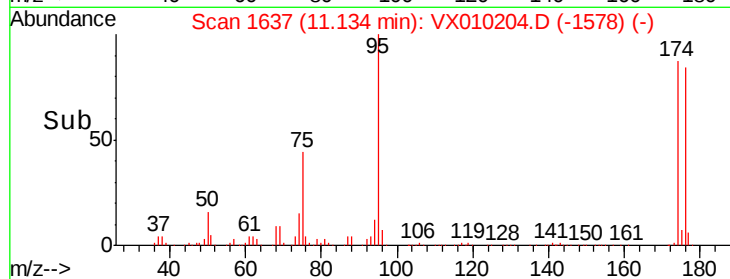
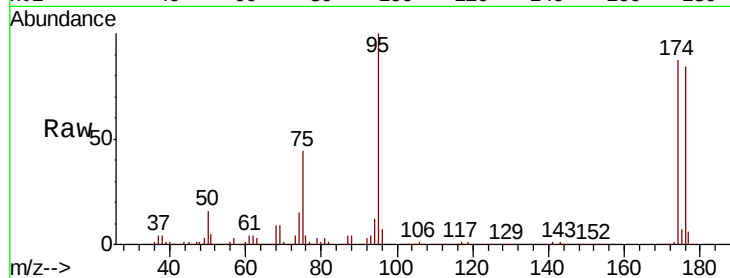
Tot Ion: 75 Resp: 66742

Ion Ratio Lower Upper

75 100

53 0.1 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

