

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061819\
 Data File : VX010335.D
 Acq On : 18 Jun 2019 12:06
 Operator : JC/SP
 Sample : K3427-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB-01-190617

Quant Time: Jun 19 01:16:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 02:12:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	310717	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	461985	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	414599	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	191200	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	138182	45.56	ug/l	0.00
Spiked Amount			Recovery	=	91.12%	
35) Dibromofluoromethane	5.50	113	139269	48.87	ug/l	0.00
Spiked Amount			Recovery	=	97.74%	
50) Toluene-d8	8.71	98	543547	50.89	ug/l	0.00
Spiked Amount			Recovery	=	101.78%	
62) 4-Bromofluorobenzene	11.13	95	182767	45.82	ug/l	0.00
Spiked Amount			Recovery	=	91.64%	

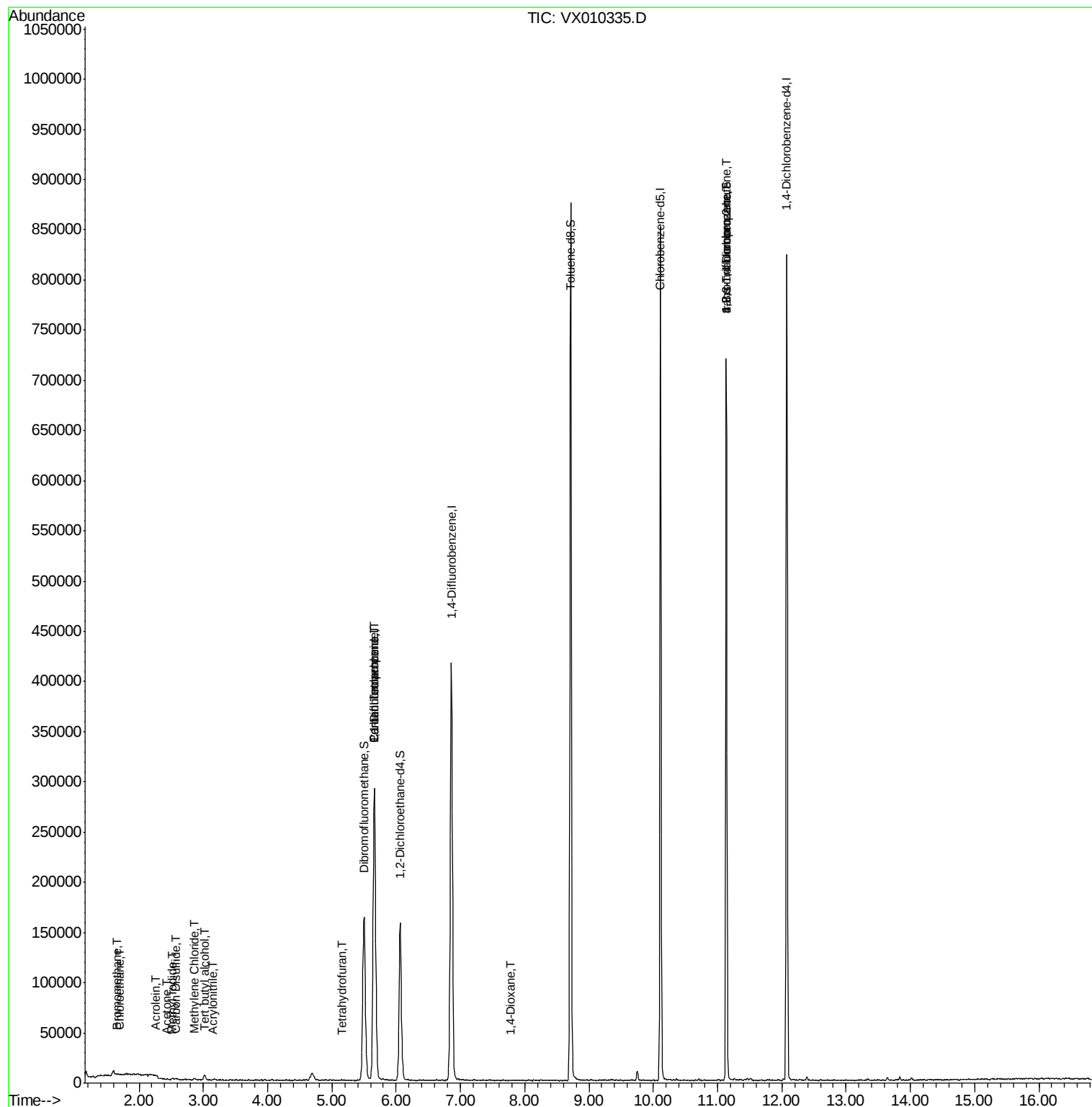
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	556	0.552	ug/l #	80
6) Chloroethane	1.70	64	464	0.345	ug/l #	43
10) Methyl Iodide	2.51	142	1168	0.276	ug/l	94
11) Tert butyl alcohol	3.02	59	2681	3.608	ug/l #	87
13) Acrolein	2.25	56	63	0.465	ug/l	96
15) Acrylonitrile	3.16	53	499	0.329	ug/l #	71
16) Acetone	2.44	43	655	0.459	ug/l	100
17) Carbon Disulfide	2.57	76	1726	0.214	ug/l #	90
20) Methylene Chloride	2.86	84	841	0.268	ug/l #	85
29) Tetrahydrofuran	5.15	42	592	0.443	ug/l #	65
36) 1,1-Dichloropropene	5.66	75	18589	4.932	ug/l #	52
38) Carbon Tetrachloride	5.66	117	26161	6.132	ug/l #	16
49) 1,4-Dioxane	7.79	88	22	0.252	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	84353	22.057	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	84353	48.733	ug/l #	10

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX010335.D

Acq: 18 Jun 2019 12:06

Instrument :

MSVOA_X

ClientSampleId :

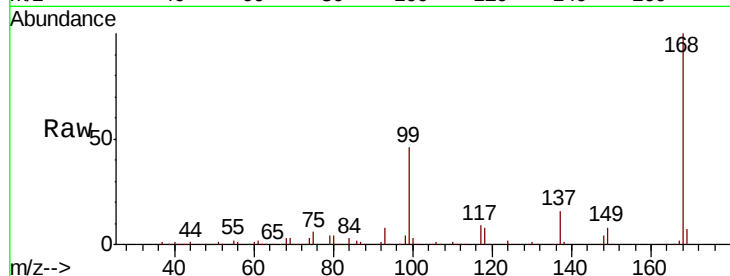
TB-01-190617

Tot Ion:168 Resp: 310717

Ion Ratio Lower Upper

168 100

99 46.1 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

120000

100000

80000

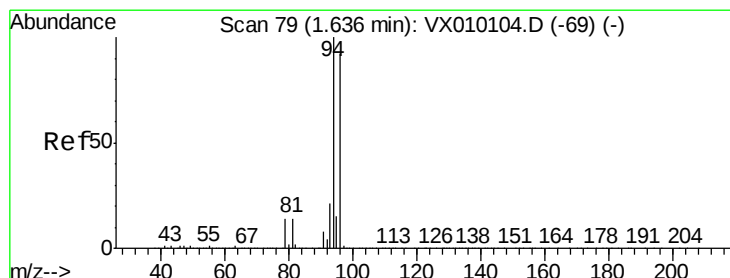
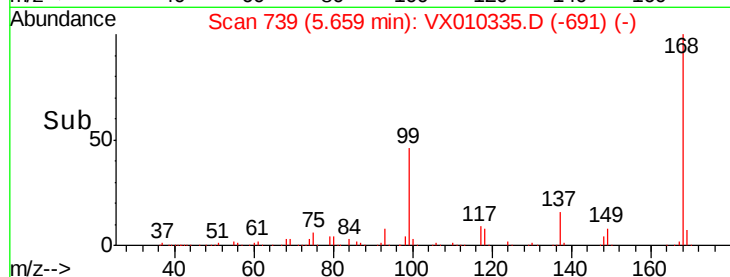
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.552 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX010335.D

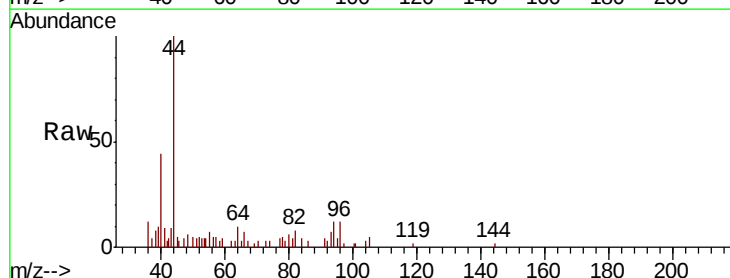
Acq: 18 Jun 2019 12:06

Tgt Ion: 94 Resp: 556

Ion Ratio Lower Upper

94 100

96 76.2 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

300

250

200

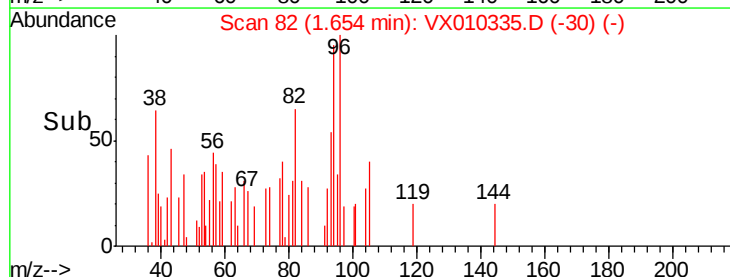
150

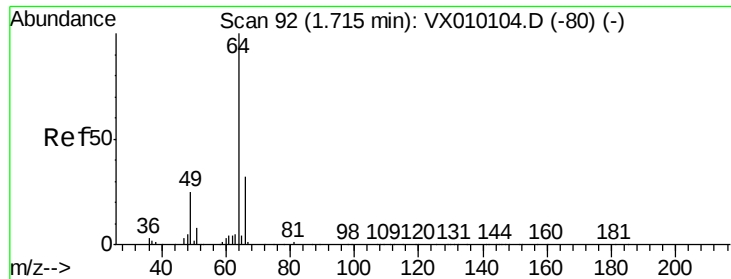
100

50

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: 0.345 ug/l

RT: 1.70 min Scan# 90

Delta R.T. -0.01 min

Lab File: VX010335.D

Acq: 18 Jun 2019 12:06

Instrument :

MSVOA_X

ClientSampleId :

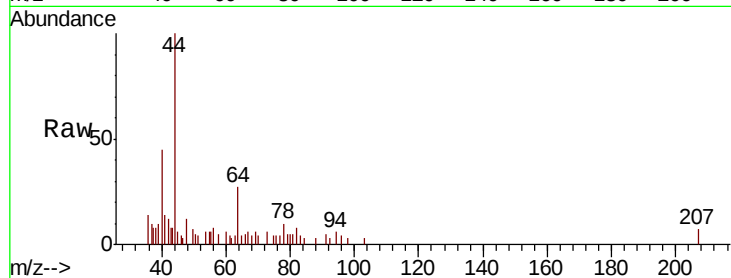
TB-01-190617

Tot Ion: 64 Resp: 464

Ion Ratio Lower Upper

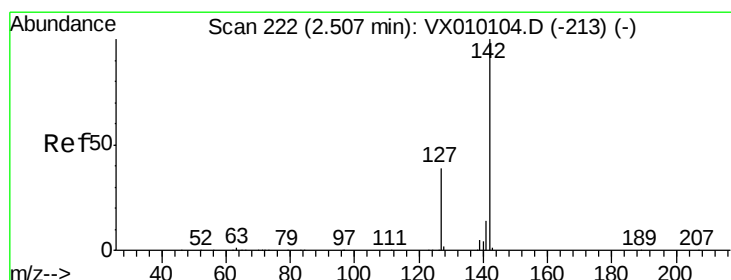
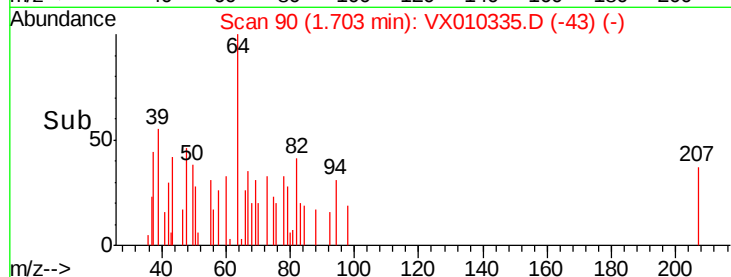
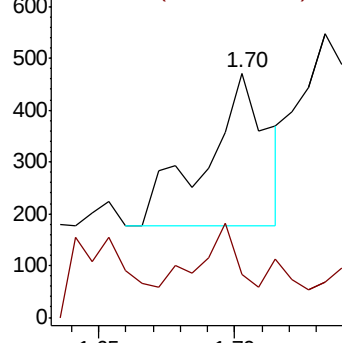
64 100

66 0.0 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 0.276 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX010335.D

Acq: 18 Jun 2019 12:06

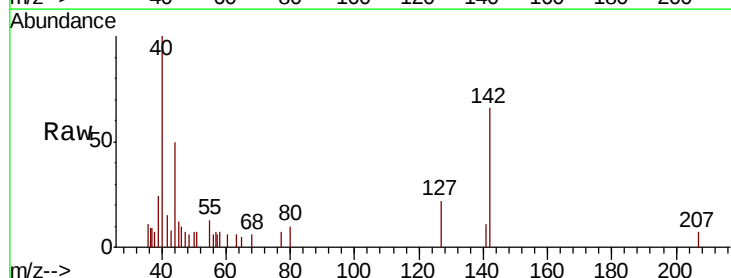
Tgt Ion: 142 Resp: 1168

Ion Ratio Lower Upper

142 100

127 45.5 33.0 49.4

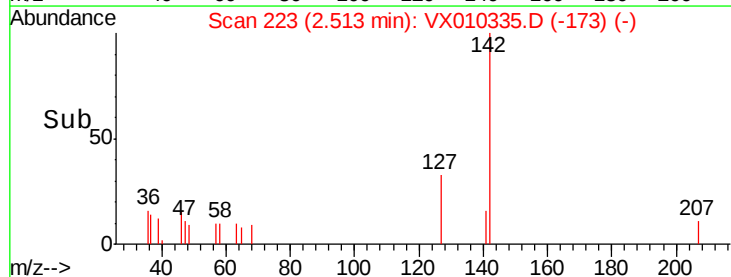
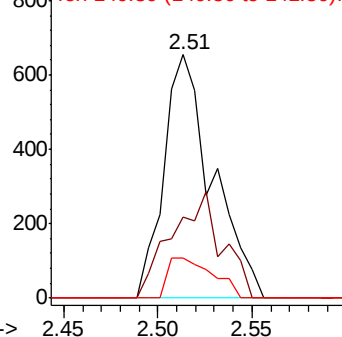
141 15.2 11.4 17.0

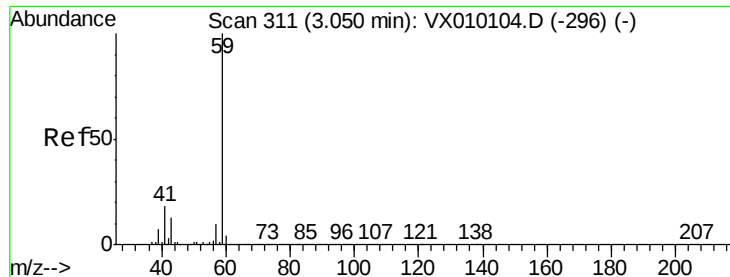


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



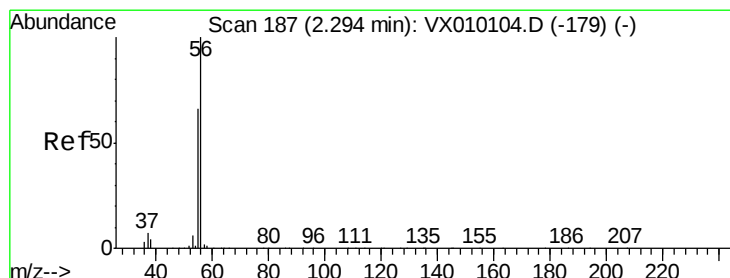
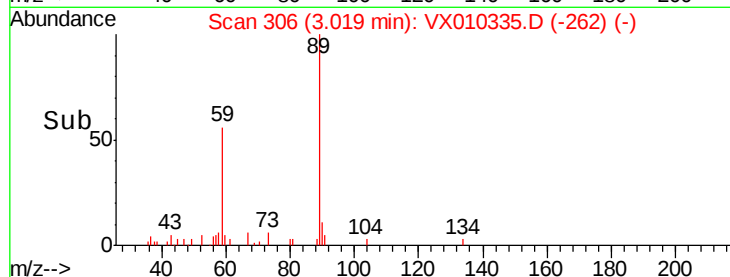
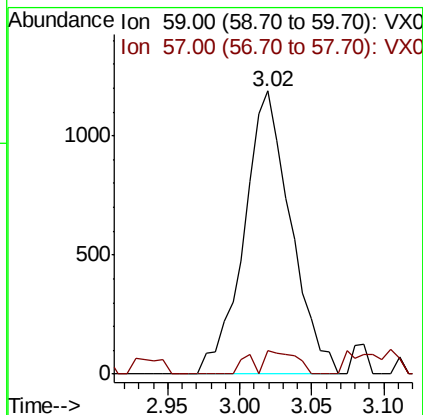
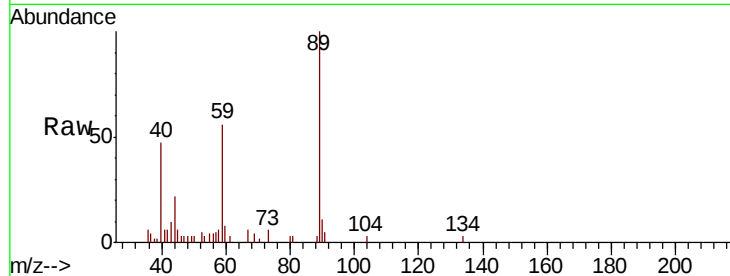


#11

Tert butyl alcohol
 Concen: 3.608 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.03 min
 Lab File: VX010335.D
 Acq: 18 Jun 2019 12:06

Instrument :
 MSVOA_X
 ClientSampled :
 TB-01-190617

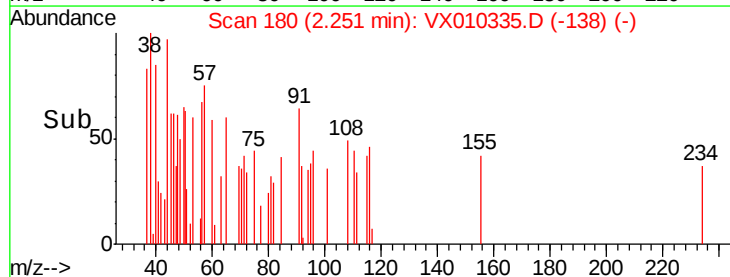
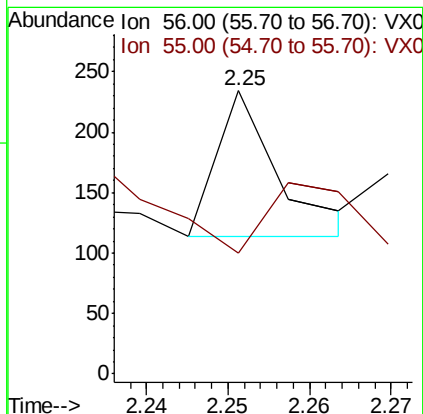
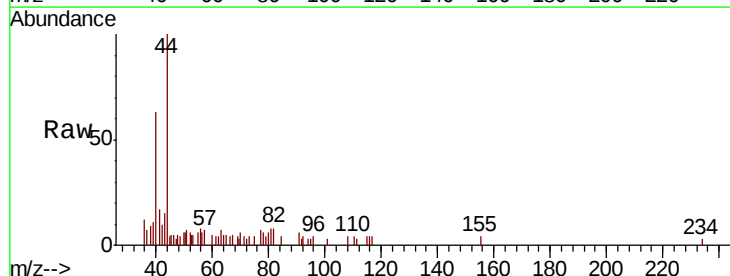
Tot Ion: 59 Resp: 2681
 Ion Ratio Lower Upper
 59 100
 57 5.5 8.2 12.2#

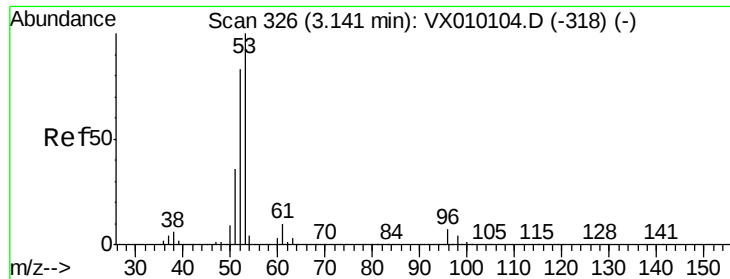


#13

Acrolein
 Concen: 0.465 ug/l
 RT: 2.25 min Scan# 180
 Delta R.T. -0.04 min
 Lab File: VX010335.D
 Acq: 18 Jun 2019 12:06

Tgt Ion: 56 Resp: 63
 Ion Ratio Lower Upper
 56 100
 55 68.3 57.0 85.4





#15

Acrylonitrile

Concen: 0.329 ug/l

RT: 3.16 min Scan# 329

Delta R.T. 0.02 min

Lab File: VX010335.D

Acq: 18 Jun 2019 12:06

Instrument :

MSVOA_X

ClientSampleID :

TB-01-190617

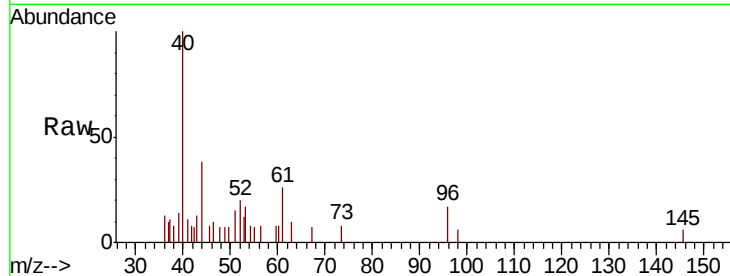
Tot Ion: 53 Resp: 499

Ion Ratio Lower Upper

53 100

52 103.0 66.7 100.1#

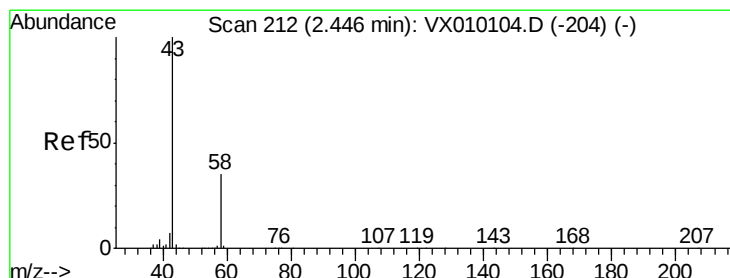
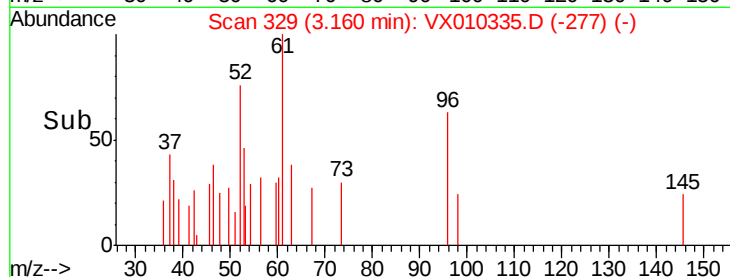
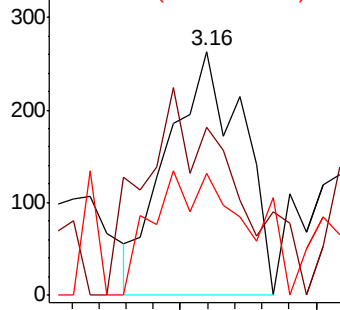
51 63.3 28.8 43.2#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 0.459 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010335.D

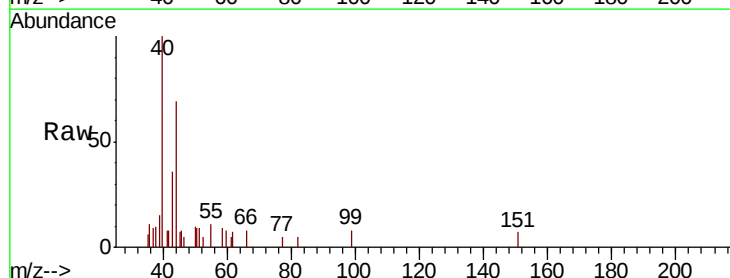
Acq: 18 Jun 2019 12:06

Tgt Ion: 43 Resp: 655

Ion Ratio Lower Upper

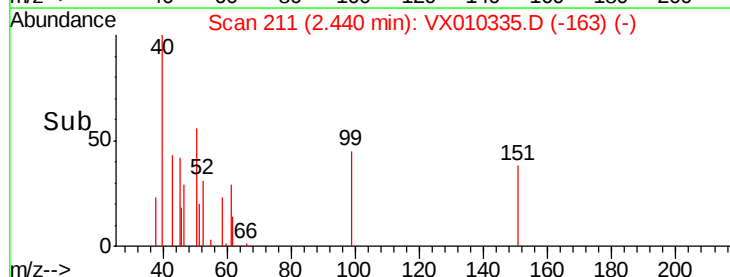
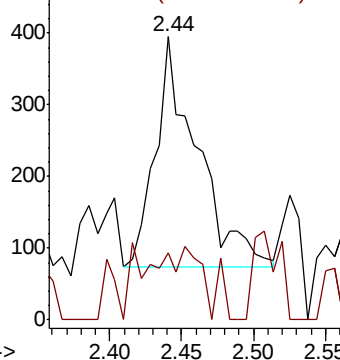
43 100

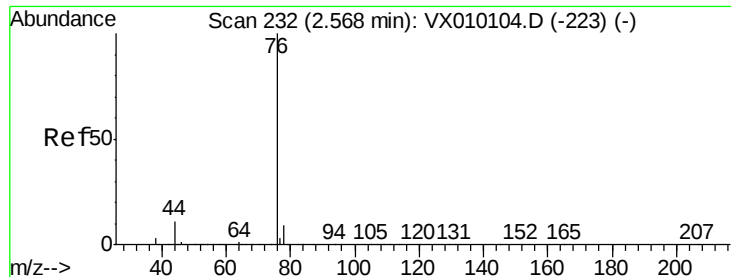
58 28.9 23.2 34.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

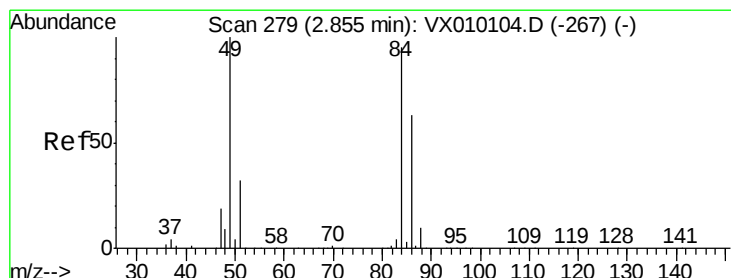
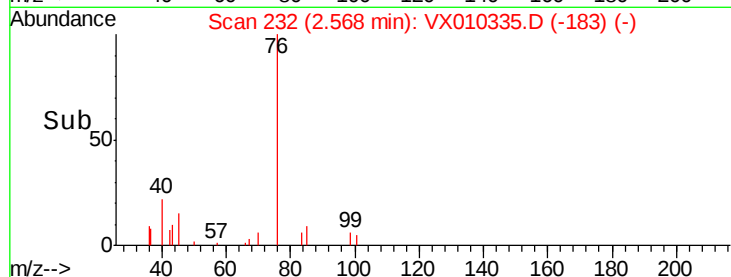
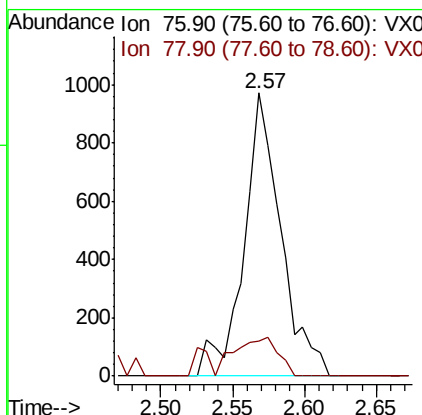
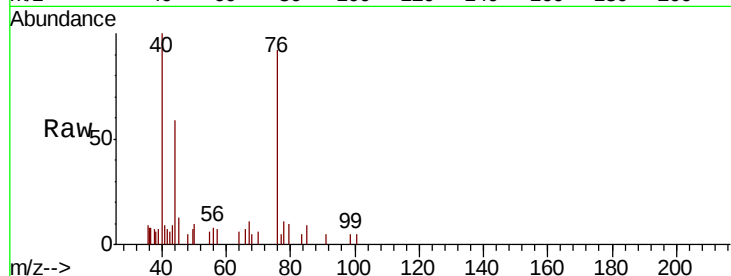




#17
Carbon Disulfide
Concen: 0.214 ug/l
RT: 2.57 min Scan# 232
Delta R.T. -0.00 min
Lab File: VX010335.D
Acq: 18 Jun 2019 12:06

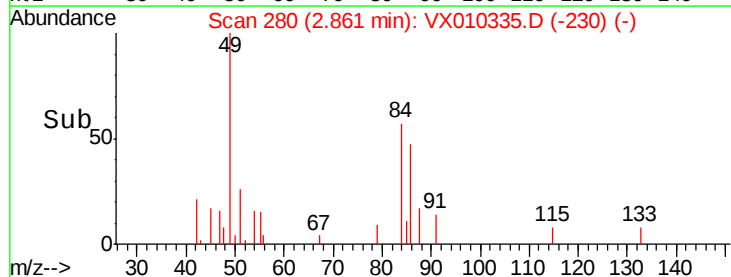
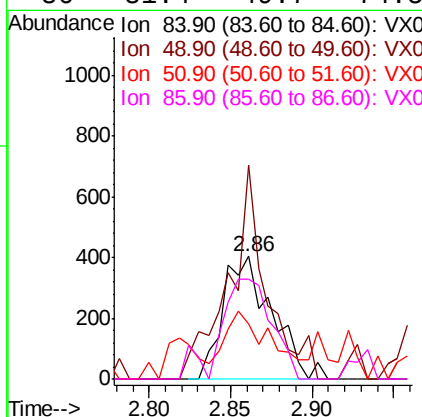
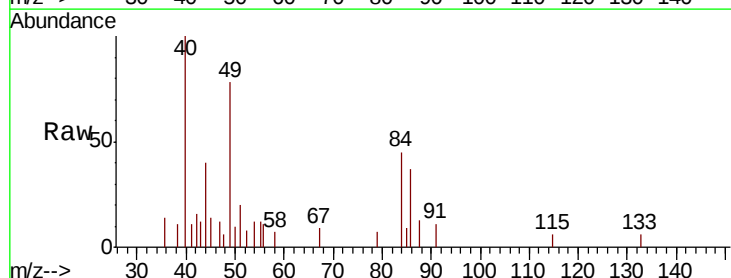
Instrument :
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ClientSampled :
TB-01-190617

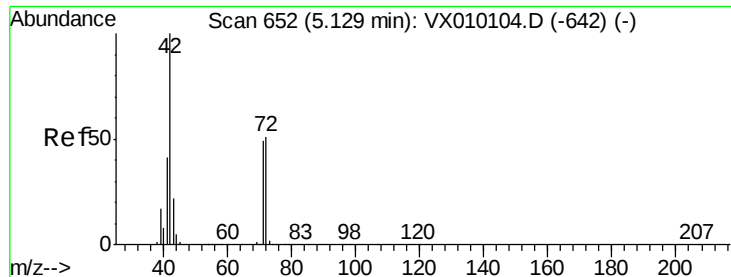
Tot Ion: 76 Resp: 1726
Ion Ratio Lower Upper
76 100
78 12.5 7.0 10.6#



#20
Methylene Chloride
Concen: 0.268 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX010335.D
Acq: 18 Jun 2019 12:06

Tgt Ion: 84 Resp: 841
Ion Ratio Lower Upper
84 100
49 157.7 115.8 173.6
51 31.4 34.4 51.6#
86 81.4 49.7 74.5#

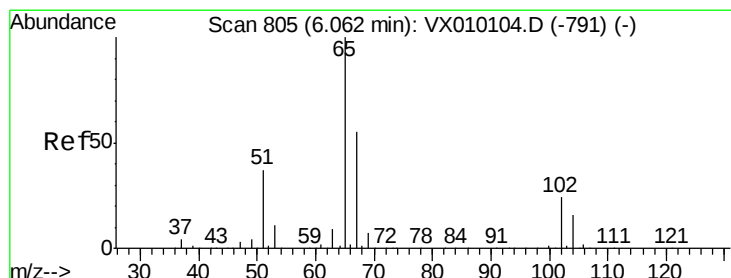
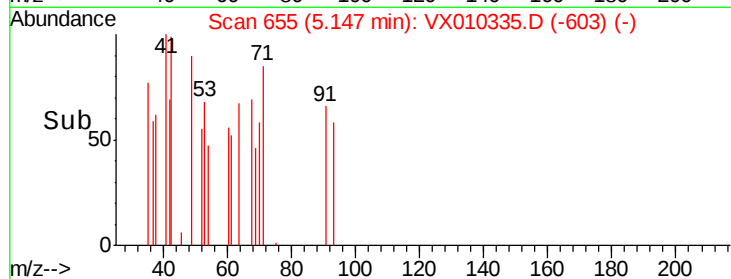
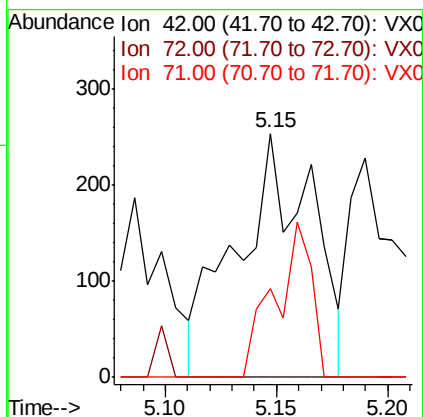
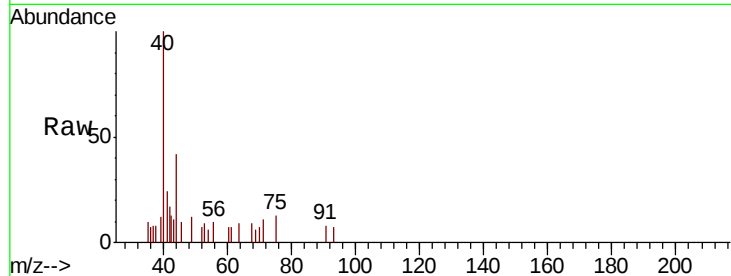




#29
Tetrahydrofuran
Concen: 0.443 ug/l
RT: 5.15 min Scan# 655
Delta R.T. 0.02 min
Lab File: VX010335.D
Acq: 18 Jun 2019 12:06

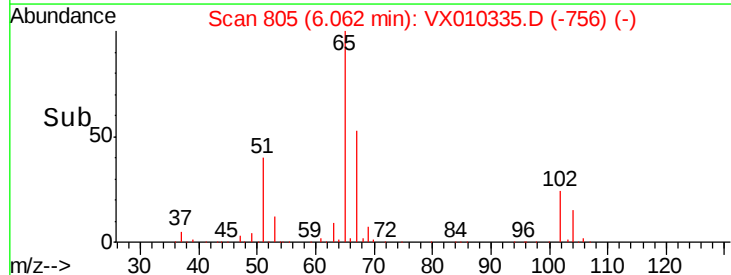
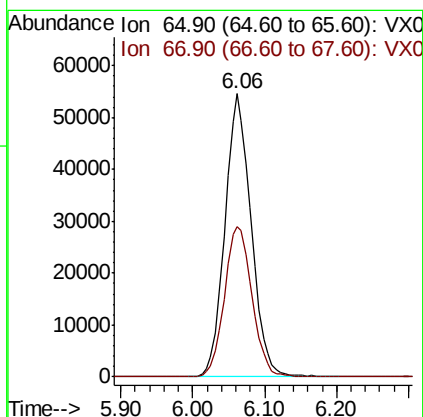
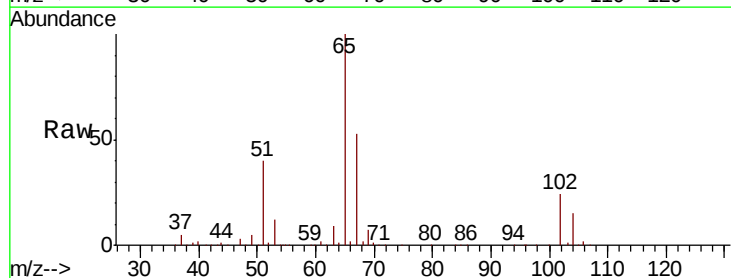
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TB-01-190617

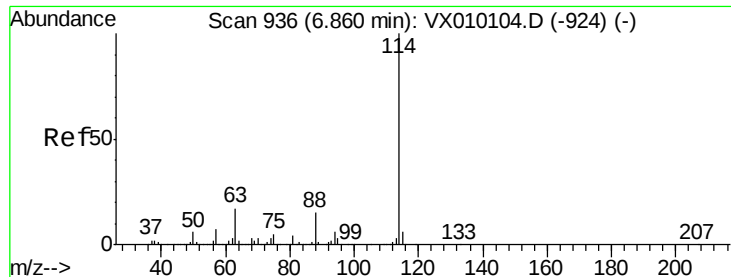
Tot Ion: 42 Resp: 592
Ion Ratio Lower Upper
42 100
72 0.0 29.2 43.8#
71 30.9 27.6 41.4



#33
1,2-Dichloroethane-d4
Concen: 45.560 ug/l
RT: 6.06 min Scan# 805
Delta R.T. 0.00 min
Lab File: VX010335.D
Acq: 18 Jun 2019 12:06

Tgt Ion: 65 Resp: 138182
Ion Ratio Lower Upper
65 100
67 55.9 0.0 108.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX010335.D

Acq: 18 Jun 2019 12:06

Instrument :

MSVOA_X

ClientSampleId :

TB-01-190617

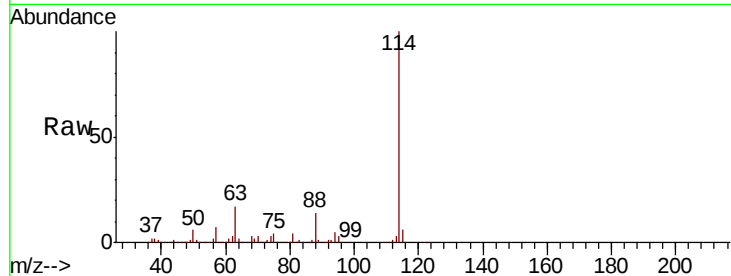
Tot Ion:114 Resp: 461985

Ion Ratio Lower Upper

114 100

63 16.6 0.0 47.4

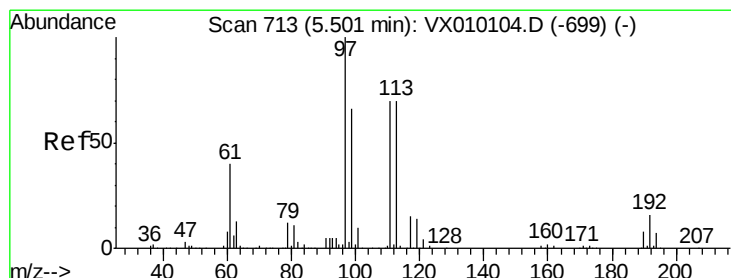
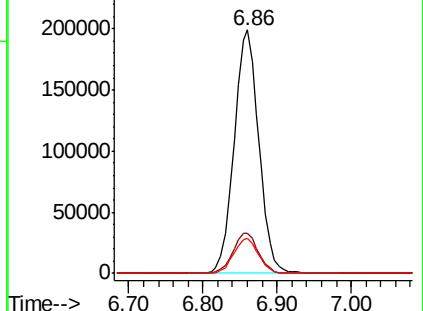
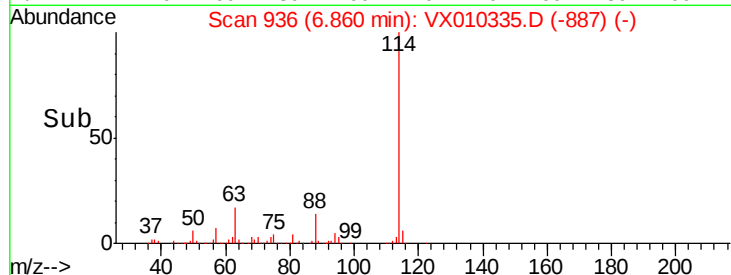
88 14.4 0.0 33.0



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: 48.873 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX010335.D

Acq: 18 Jun 2019 12:06

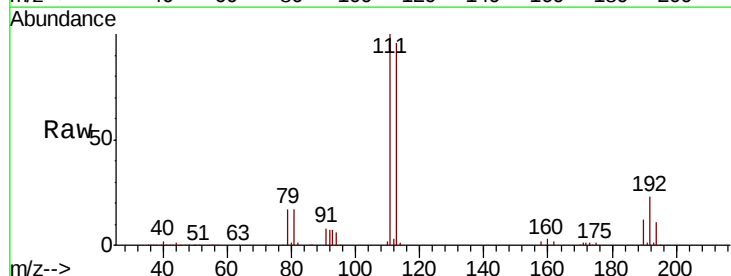
Tgt Ion:113 Resp: 139269

Ion Ratio Lower Upper

113 100

111 103.5 82.2 123.2

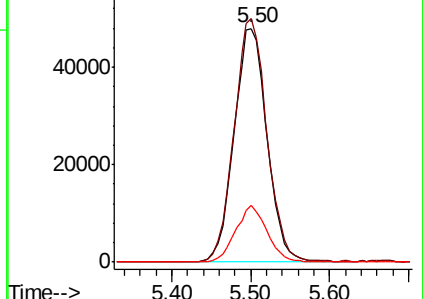
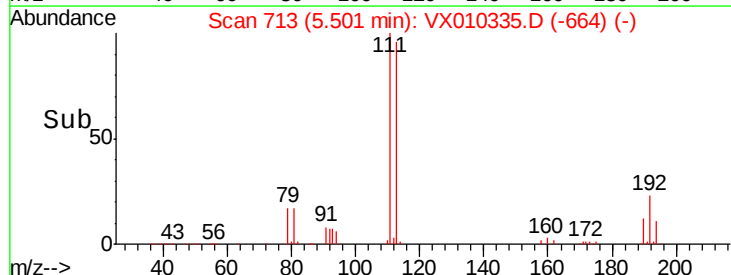
192 23.0 17.1 25.7

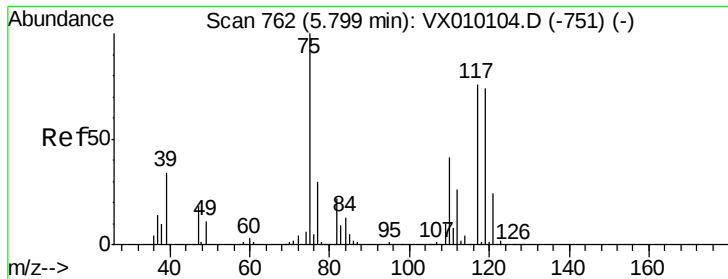


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.932 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX010335.D

Acq: 18 Jun 2019 12:06

Instrument :

MSVOA_X

ClientSampleId :

TB-01-190617

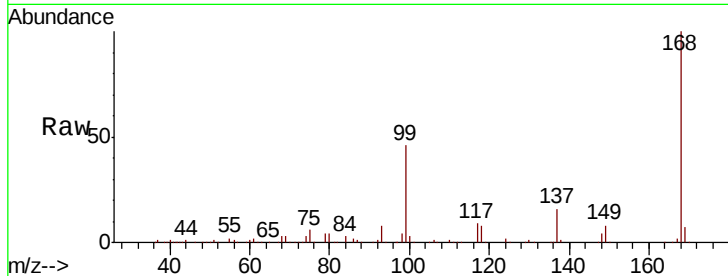
Tot Ion: 75 Resp: 18589

Ion Ratio Lower Upper

75 100

110 10.9 16.7 50.1#

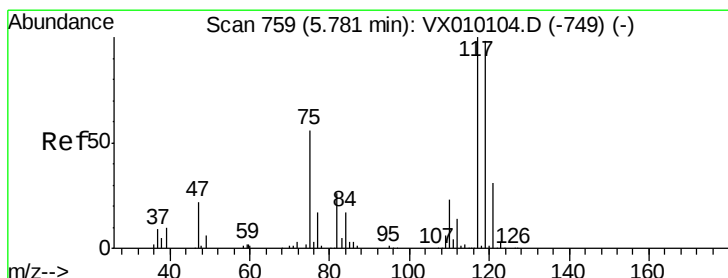
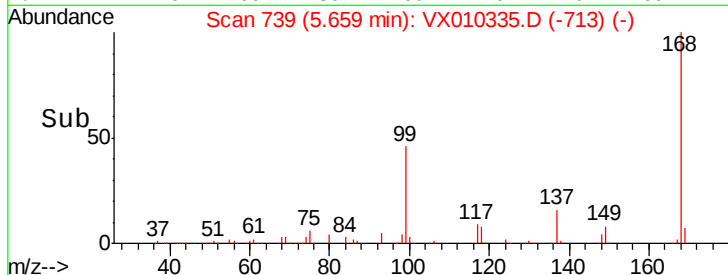
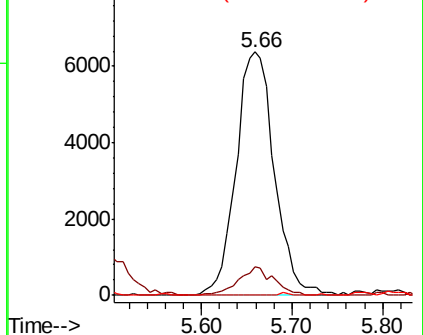
77 0.0 25.0 37.4#



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: 6.132 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX010335.D

Acq: 18 Jun 2019 12:06

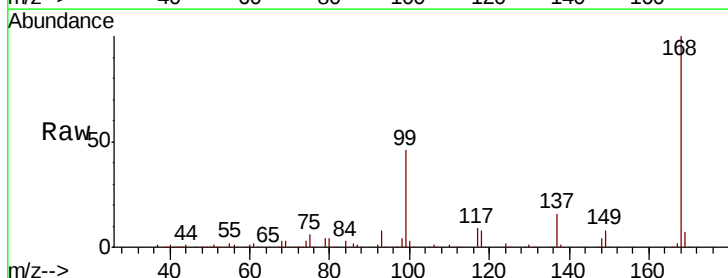
Tgt Ion: 117 Resp: 26161

Ion Ratio Lower Upper

117 100

119 5.1 77.3 115.9#

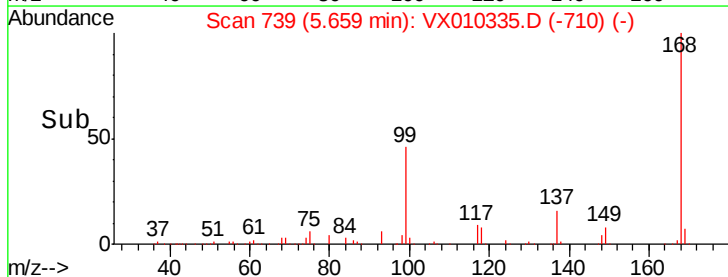
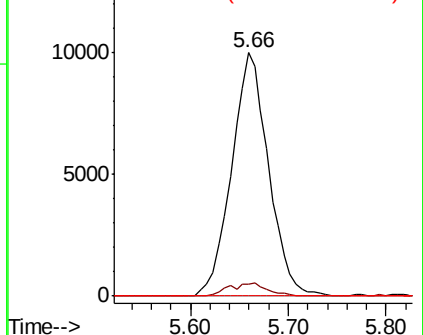
121 0.0 25.4 38.0#

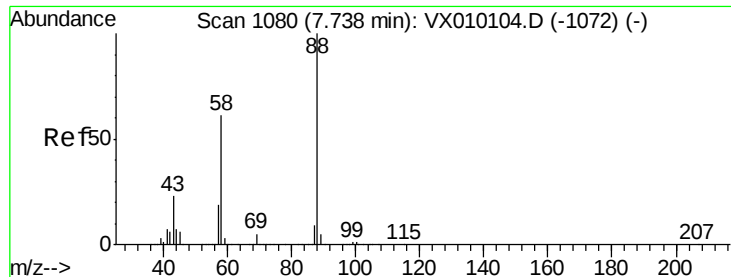


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

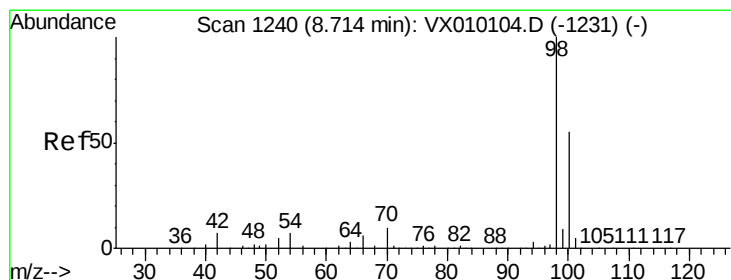
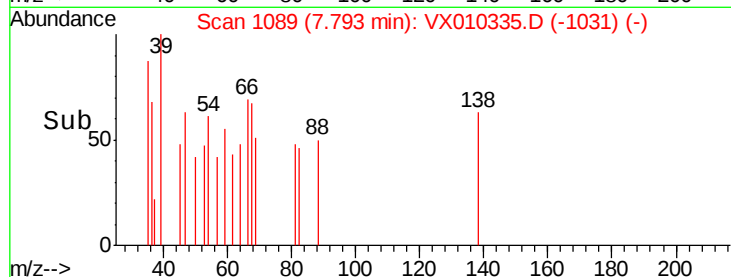
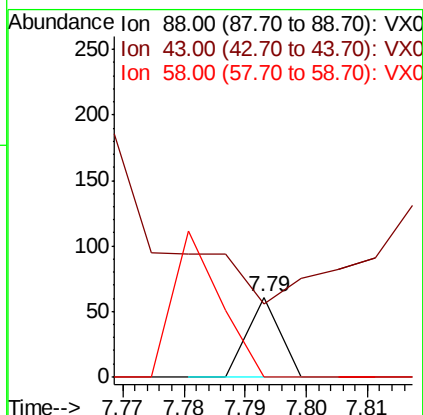
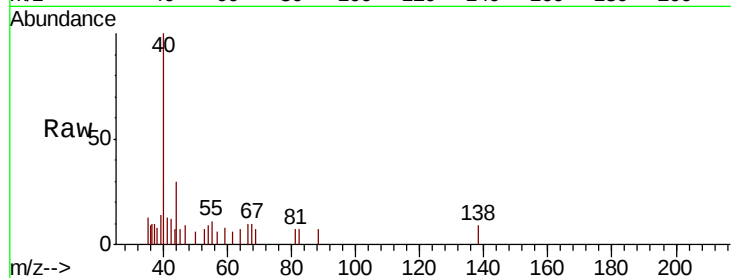




#49
1,4-Dioxane
Concen: 0.252 ug/l
RT: 7.79 min Scan# 1089
Delta R.T. 0.05 min
Lab File: VX010335.D
Acq: 18 Jun 2019 12:06

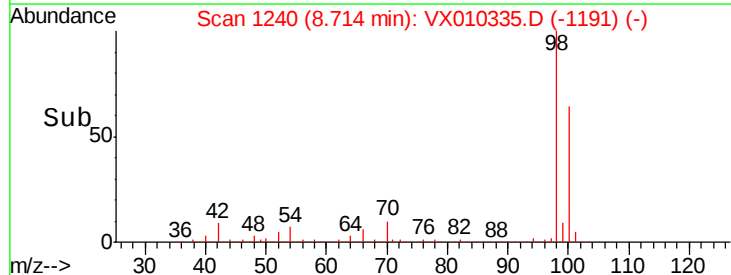
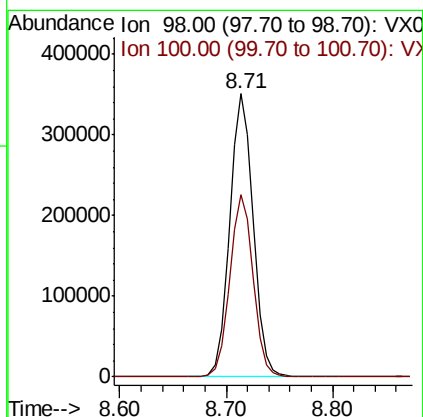
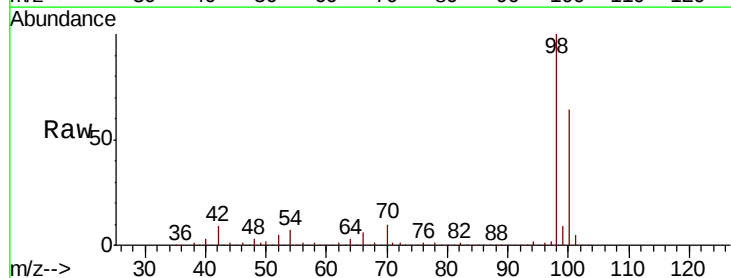
Instrument :
MSVOA_X
ClientSampleId :
TB-01-190617

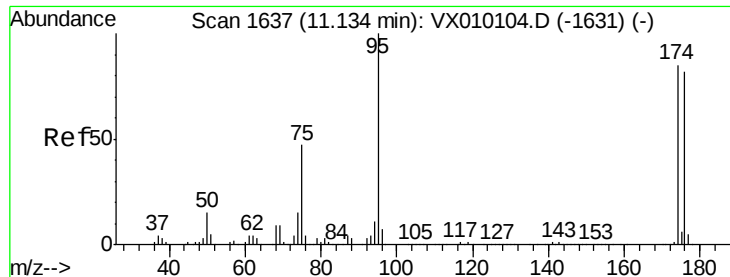
Tot Ion: 88 Resp: 22
Ion Ratio Lower Upper
88 100
43 0.0 30.2 45.4#
58 268.2 64.0 96.0#



#50
Toluene-d8
Concen: 50.894 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010335.D
Acq: 18 Jun 2019 12:06

Tgt Ion: 98 Resp: 543547
Ion Ratio Lower Upper
98 100
100 64.1 51.5 77.3





#62

4-Bromofluorobenzene

Concen: 45.823 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010335.D

Acq: 18 Jun 2019 12:06

Instrument :

MSVOA_X

ClientSampleId :

TB-01-190617

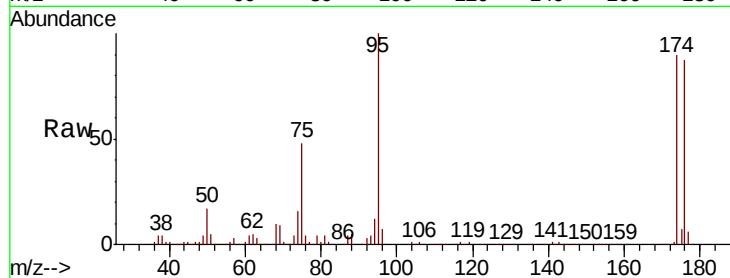
Tot Ion: 95 Resp: 182767

Ion Ratio Lower Upper

95 100

174 93.5 0.0 160.4

176 91.4 0.0 154.6



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

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

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

11.13

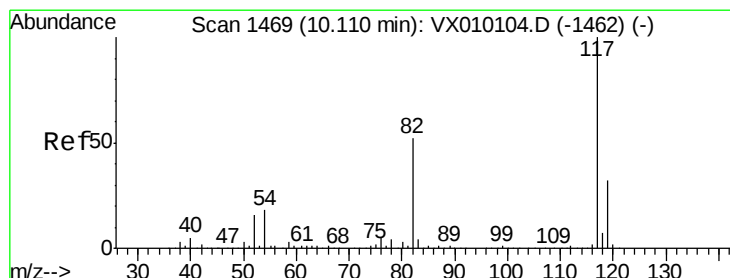
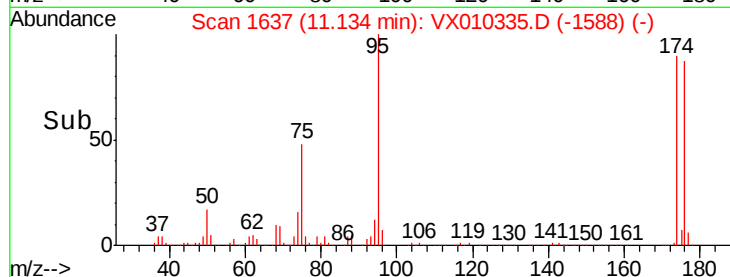
150000

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX010335.D

Acq: 18 Jun 2019 12:06

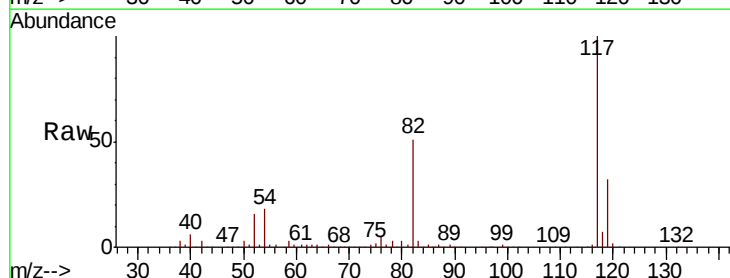
Tgt Ion: 117 Resp: 414599

Ion Ratio Lower Upper

117 100

82 50.5 49.2 73.8

119 32.1 25.2 37.8



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

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

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

10.11

400000

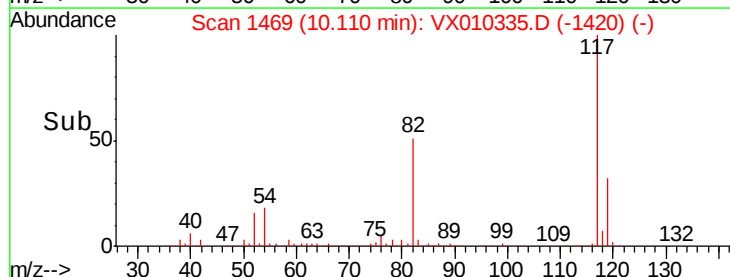
300000

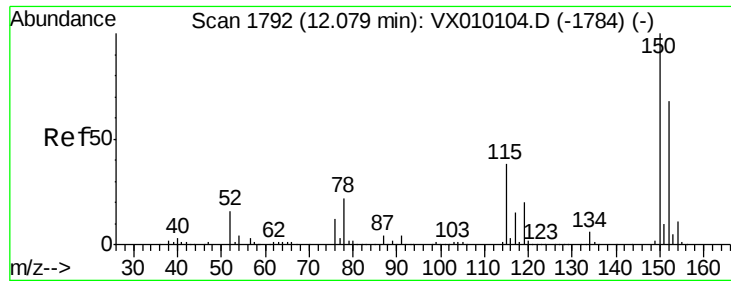
200000

100000

0

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: VX010335.D

Acq: 18 Jun 2019 12:06

Instrument :

MSVOA_X

ClientSampleId :

TB-01-190617

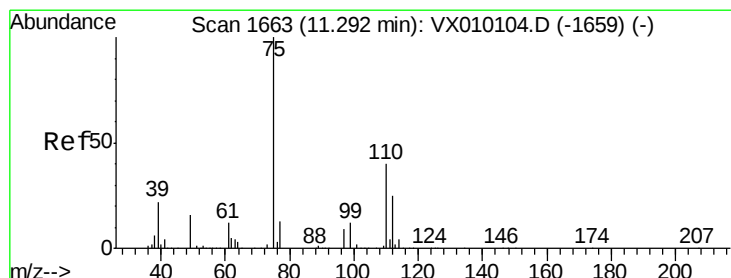
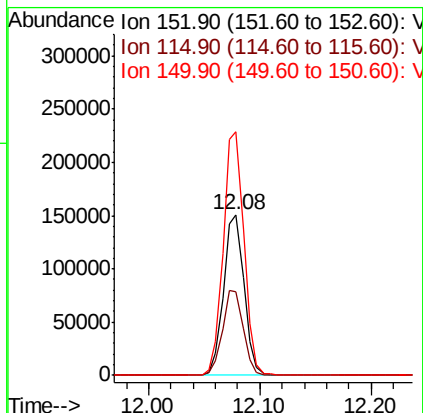
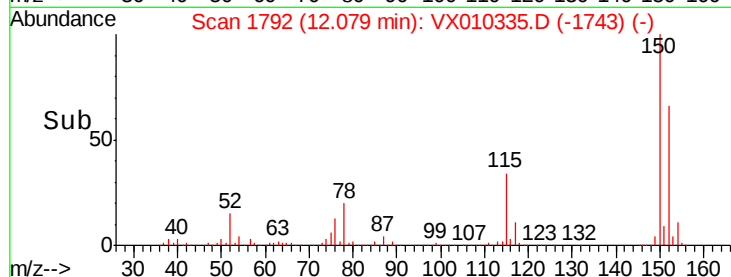
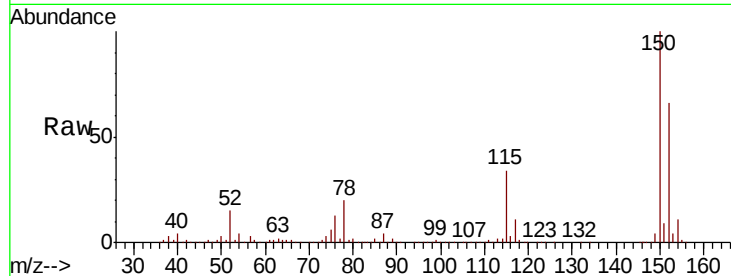
Tot Ion:152 Resp: 191200

Ion Ratio Lower Upper

152 100

115 53.9 41.4 124.2

150 153.9 0.0 345.2



#76

1,2,3-Trichloropropane

Concen: 22.057 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010335.D

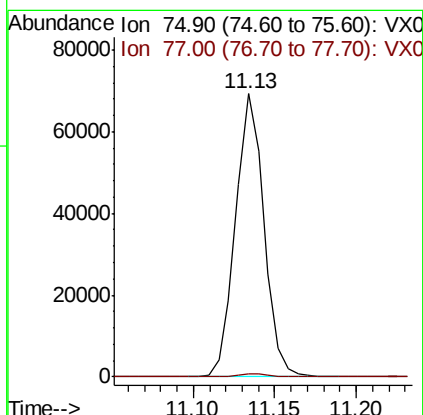
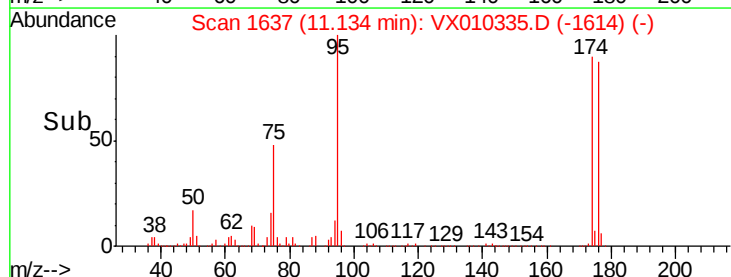
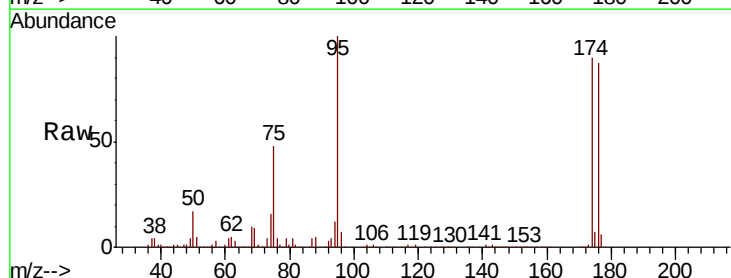
Acq: 18 Jun 2019 12:06

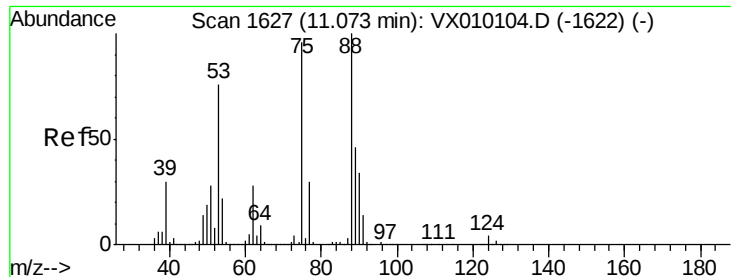
Tgt Ion: 75 Resp: 84353

Ion Ratio Lower Upper

75 100

77 1.3 22.1 66.1#





#81

trans-1,4-Dichloro-2-butene

Concen: 48.733 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010335.D

Acq: 18 Jun 2019 12:06

Instrument :

MSVOA_X

ClientSampleId :

TB-01-190617

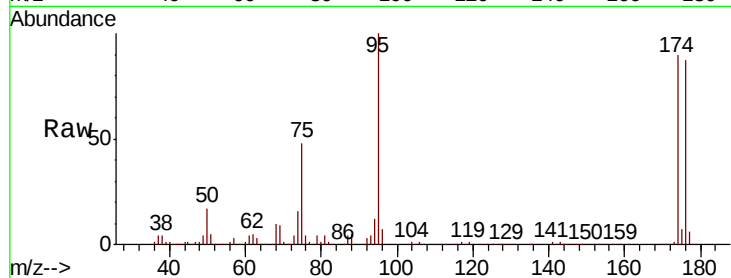
Tot Ion: 75 Resp: 84353

Ion Ratio Lower Upper

75 100

53 0.0 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

