

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\WX040919\
 Data File : VX008769.D
 Acq On : 09 Apr 2019 14:38
 Operator : JC/SP
 Sample : K2306-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TT-TB-20190404

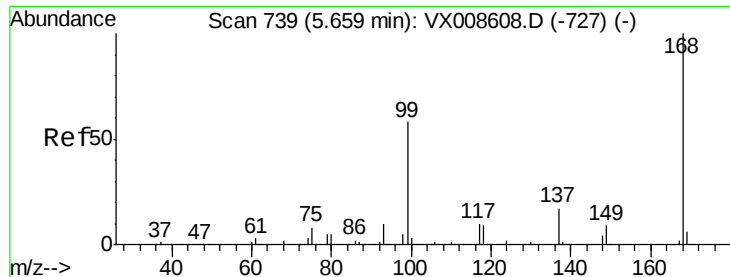
Quant Time: Apr 09 14:59:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X040319W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 04 04:47:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	196170	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	322192	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	280372	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	116367	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	133181	46.55	ug/l	0.00
Spiked Amount			Recovery	=	93.10%	
35) Dibromofluoromethane	5.49	113	97651	47.40	ug/l	0.00
Spiked Amount			Recovery	=	94.80%	
50) Toluene-d8	8.71	98	406460	49.55	ug/l	0.00
Spiked Amount			Recovery	=	99.10%	
62) 4-Bromofluorobenzene	11.13	95	133822	46.01	ug/l	0.00
Spiked Amount			Recovery	=	92.02%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	432	Below Cal	#	63
5) Bromomethane	1.64	94	313	2.086	ug/l #	73
6) Chloroethane	1.72	64	92	Below Cal	#	43
10) Methyl Iodide	2.51	142	21	4.013	ug/l #	42
11) Tert butyl alcohol	3.02	59	1593	2.378	ug/l #	72
13) Acrolein	2.28	56	158	0.476	ug/l #	48
16) Acetone	2.44	43	9946	6.035	ug/l	98
17) Carbon Disulfide	2.57	76	541	Below Cal	#	75
20) Methylene Chloride	2.85	84	1078	0.391	ug/l	90
25) 2-Butanone	4.69	43	2636	1.012	ug/l	94
28) Bromochloromethane	5.01	49	67	Below Cal	#	22
29) Tetrahydrofuran	5.14	42	1727	0.999	ug/l	97
31) Cyclohexane	5.65	56	4418	0.894	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	15868	4.506	ug/l #	50
38) Carbon Tetrachloride	5.65	117	19158	6.572	ug/l #	17
51) 4-Methyl-2-Pentanone	8.64	43	1016	0.214	ug/l	93
52) Toluene	8.78	92	2097	0.339	ug/l	98
76) 1,2,3-Trichloropropane	11.13	75	67608	21.149	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	67608	58.299	ug/l #	9

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.00 min

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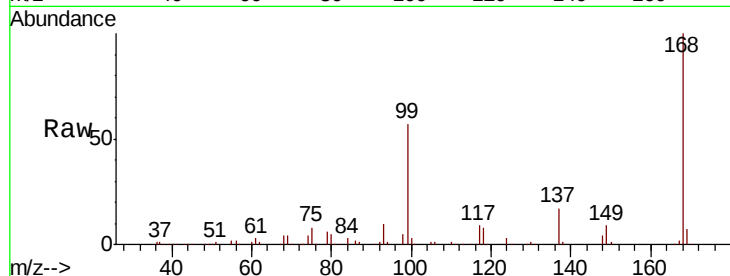
TT-TB-20190404

Tgt Ion:168 Resp: 196170

Ion Ratio Lower Upper

168 100

99 57.0 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

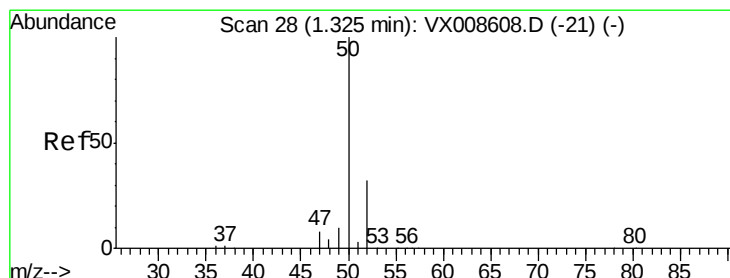
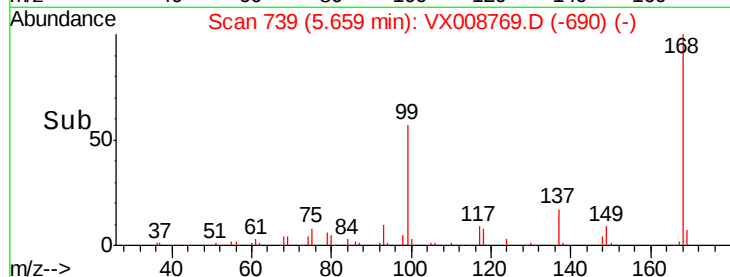
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008769.D

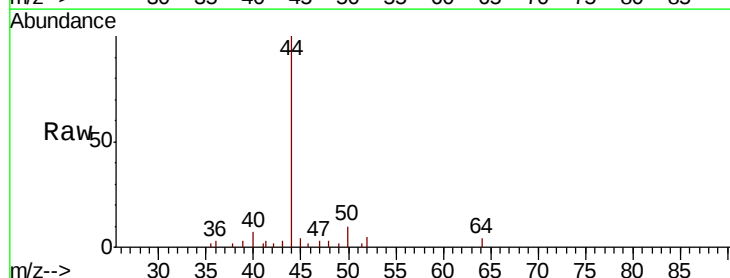
Acq: 09 Apr 2019 14:38

Tgt Ion: 50 Resp: 432

Ion Ratio Lower Upper

50 100

52 53.0 25.8 38.8#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

300

250

200

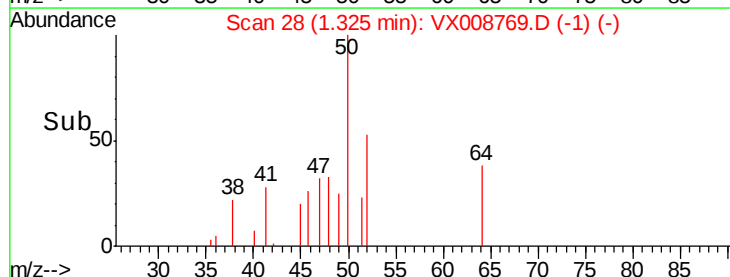
150

100

50

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 2.086 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX008769.D

Acq: 09 Apr 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

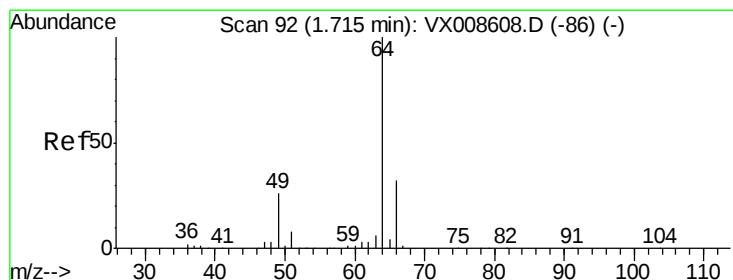
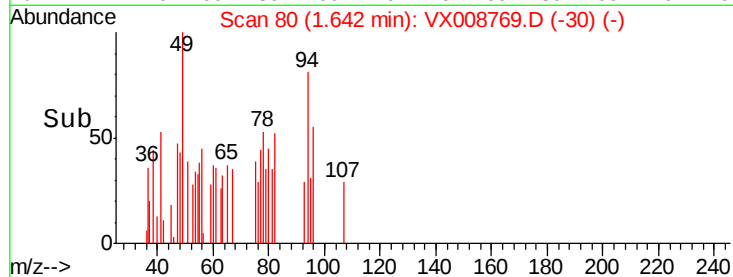
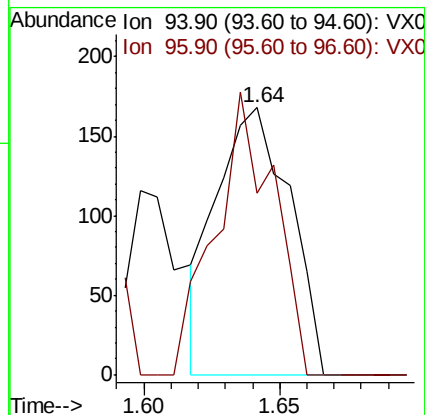
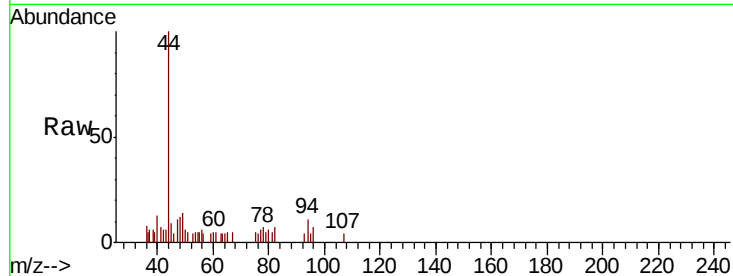
TT-TB-20190404

Tgt Ion: 94 Resp: 313

Ion Ratio Lower Upper

94 100

96 67.9 75.2 112.8#



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX008769.D

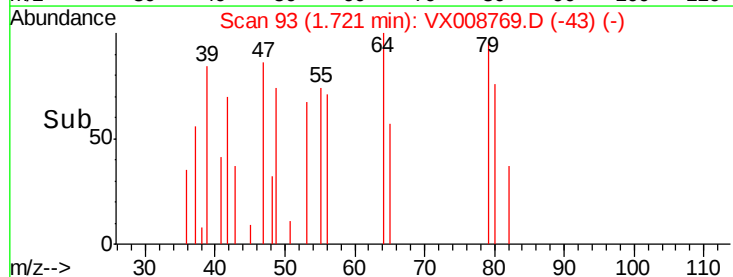
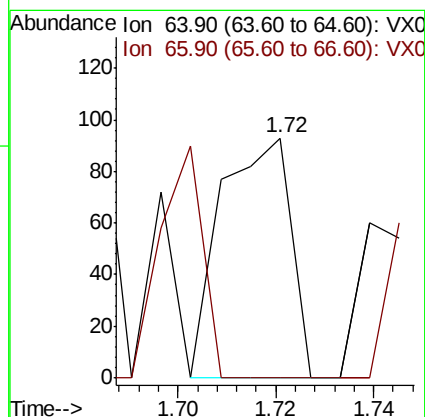
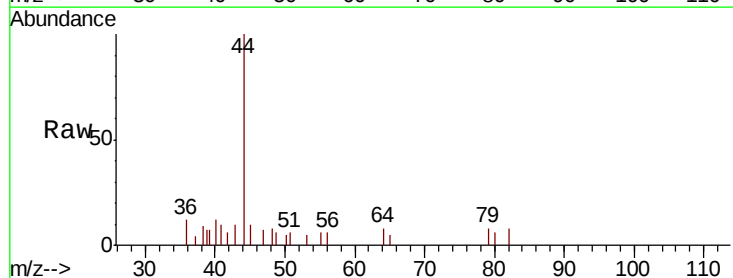
Acq: 09 Apr 2019 14:38

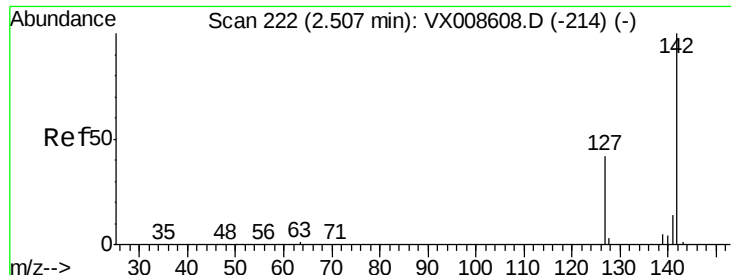
Tgt Ion: 64 Resp: 92

Ion Ratio Lower Upper

64 100

66 0.0 25.4 38.0#

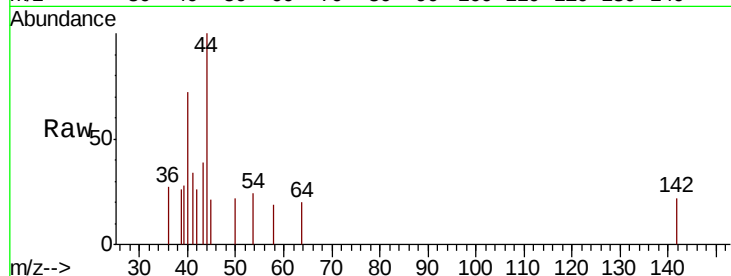




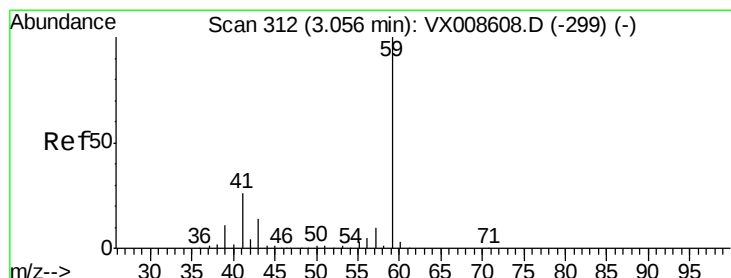
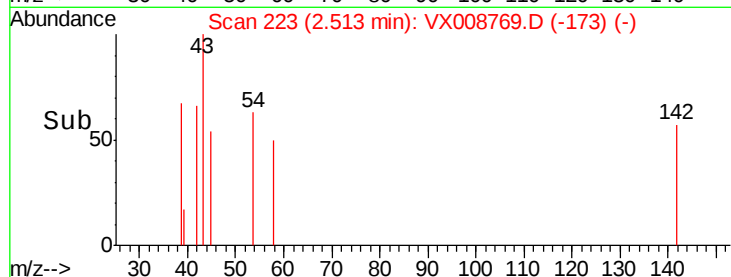
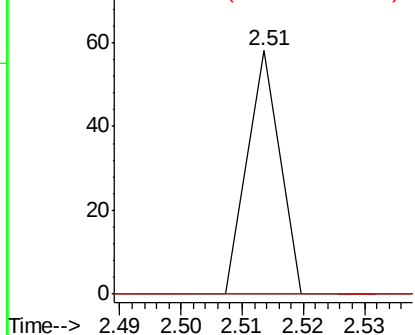
#10
Methyl Iodide
Concen: 4.013 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX008769.D
Acq: 09 Apr 2019 14:38

Instrument :
MSVOA_X
ClientSampleId :
TT-TB-20190404

Tgt Ion: 142 Resp: 21
Ion Ratio Lower Upper
142 100
127 0.0 33.0 49.6#
141 0.0 11.4 17.2#

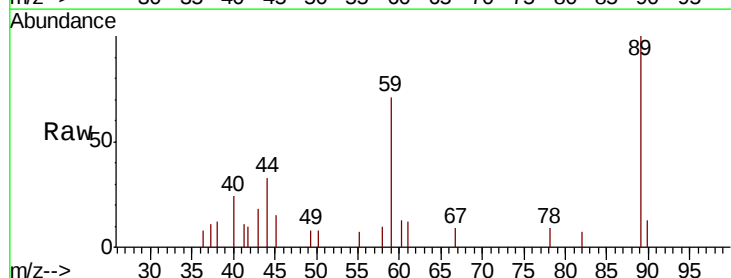


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

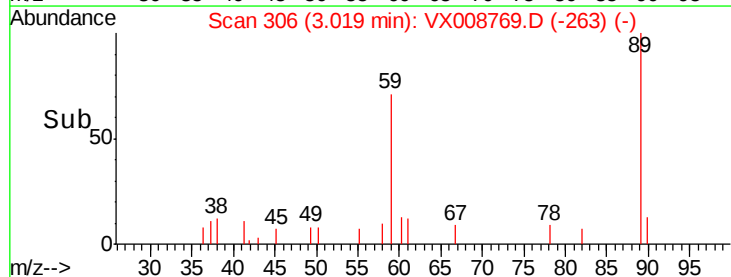
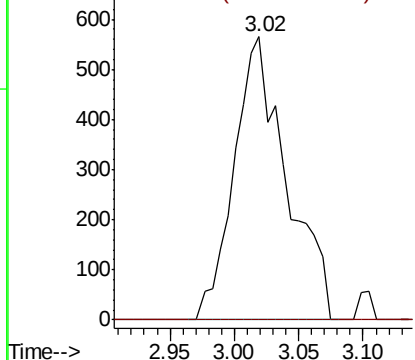


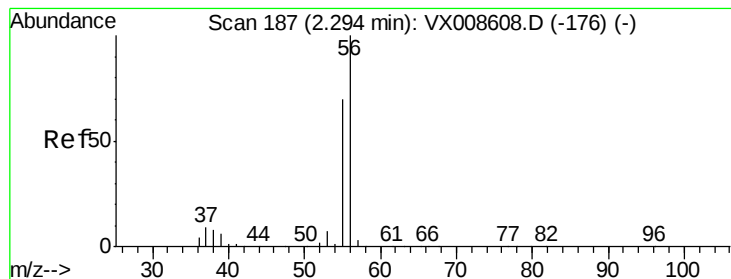
#11
Tert butyl alcohol
Concen: 2.378 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.04 min
Lab File: VX008769.D
Acq: 09 Apr 2019 14:38

Tgt Ion: 59 Resp: 1593
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.476 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX008769.D

Acq: 09 Apr 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

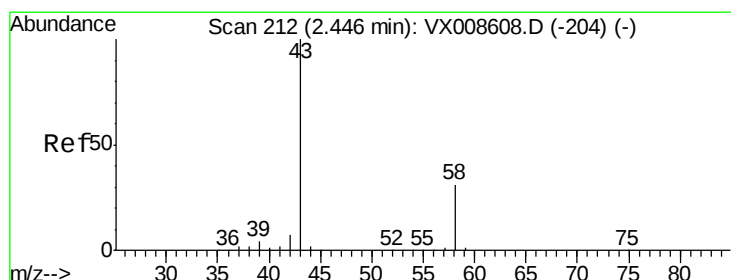
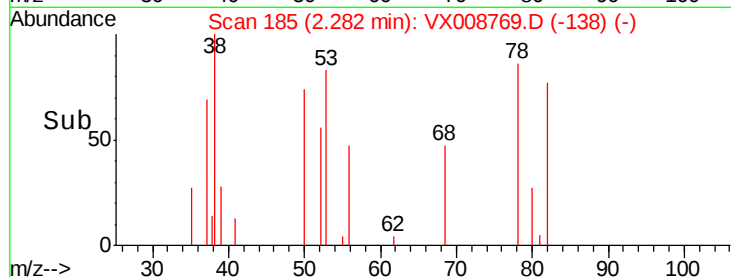
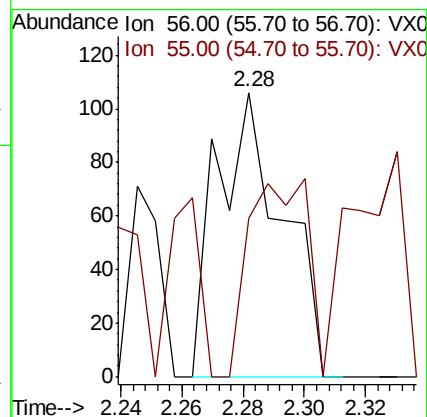
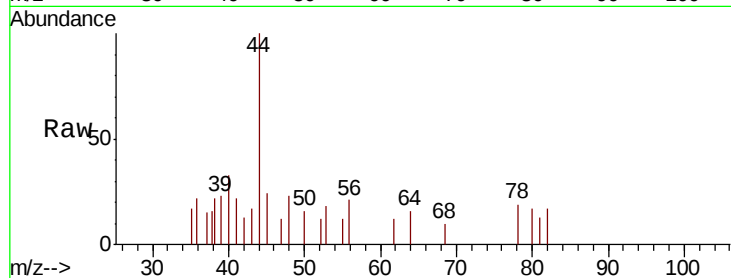
TT-TB-20190404

Tgt Ion: 56 Resp: 158

Ion Ratio Lower Upper

56 100

55 29.1 58.0 87.0#



#16

Acetone

Concen: 6.035 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX008769.D

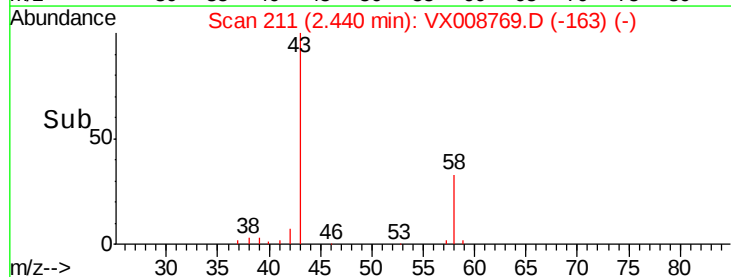
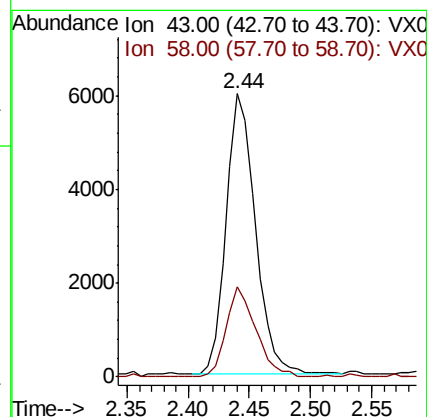
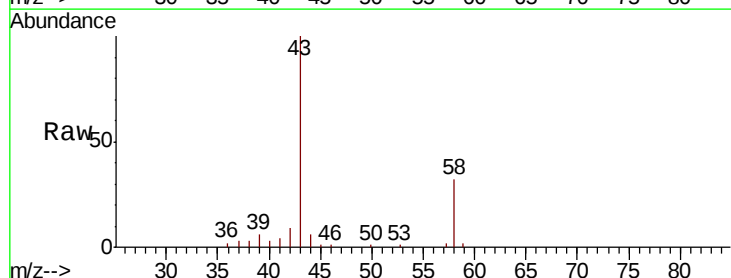
Acq: 09 Apr 2019 14:38

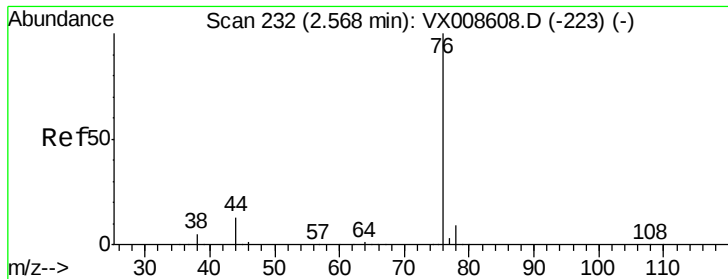
Tgt Ion: 43 Resp: 9946

Ion Ratio Lower Upper

43 100

58 32.2 24.8 37.2





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008769.D

Acq: 09 Apr 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

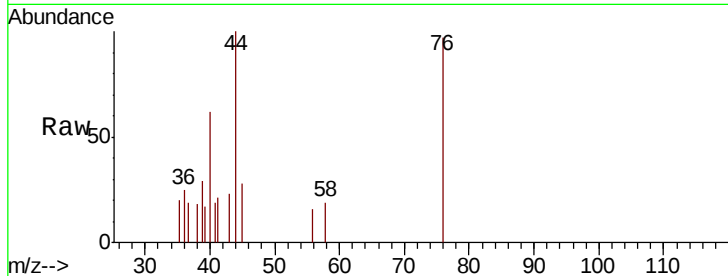
TT-TB-20190404

Tgt Ion: 76 Resp: 541

Ion Ratio Lower Upper

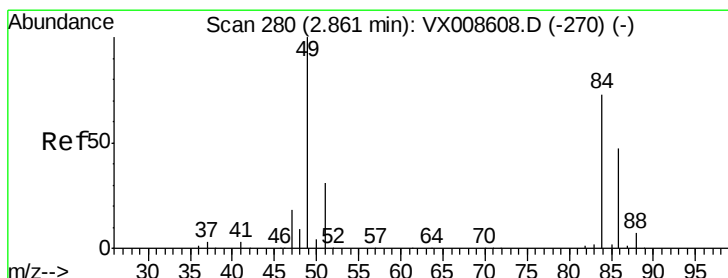
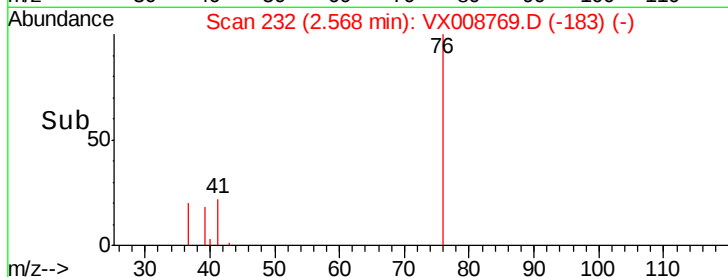
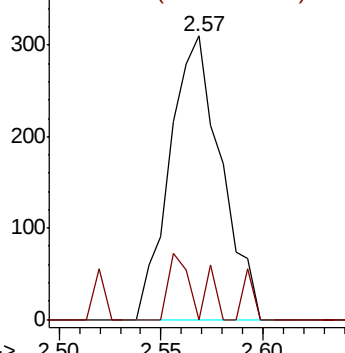
76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 0.391 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX008769.D

Acq: 09 Apr 2019 14:38

Tgt Ion: 84 Resp: 1078

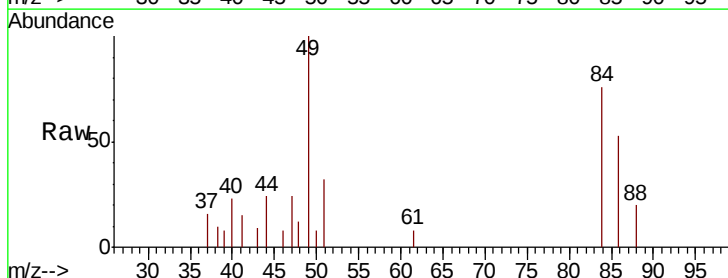
Ion Ratio Lower Upper

84 100

49 118.2 109.7 164.5

51 41.9 33.6 50.4

86 68.7 51.4 77.2

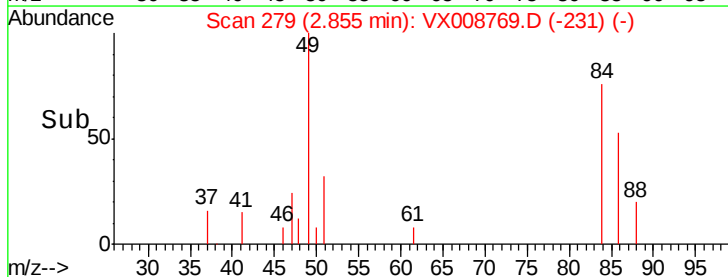
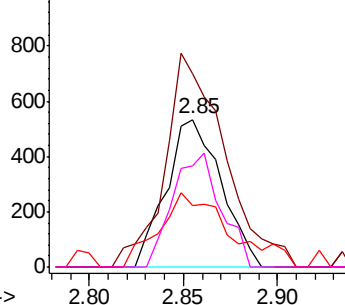


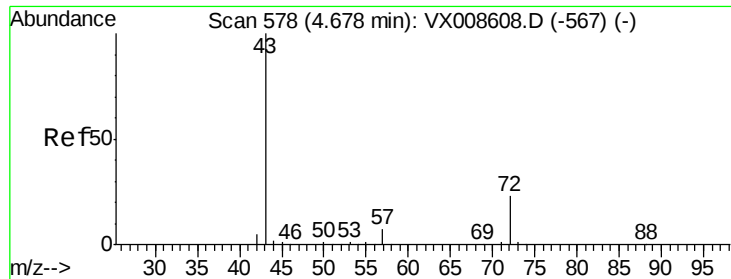
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#25

2-Butanone

Concen: 1.012 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.01 min

Lab File: VX008769.D

Acq: 09 Apr 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

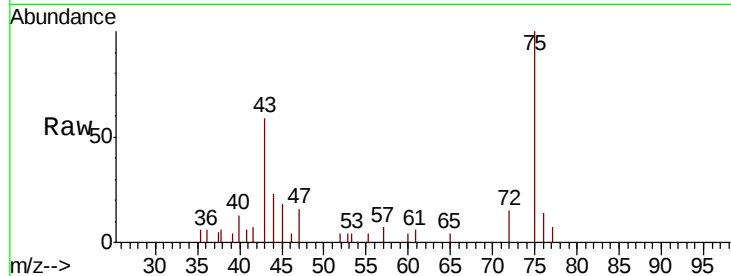
TT-TB-20190404

Tgt Ion: 43 Resp: 2636

Ion Ratio Lower Upper

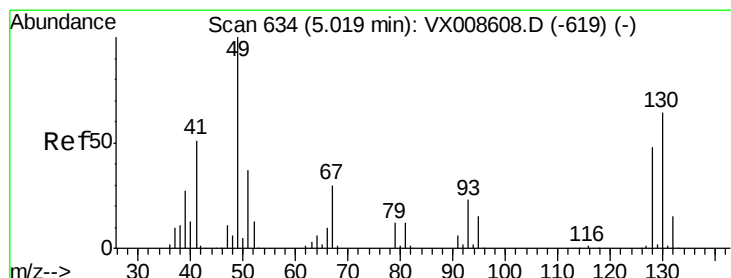
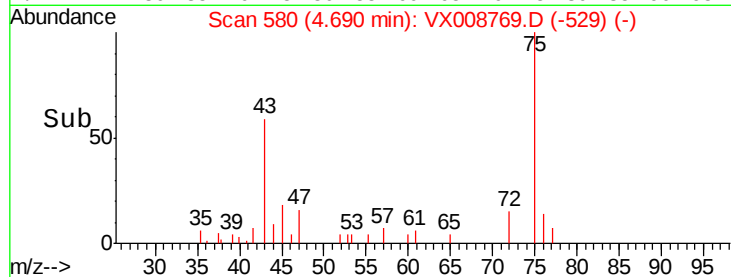
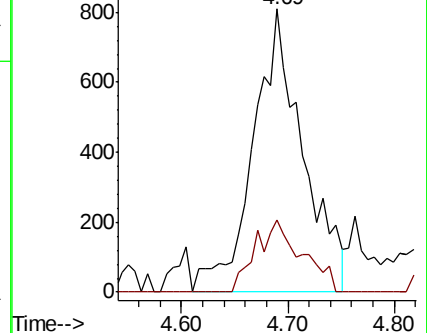
43 100

72 25.5 18.2 27.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 633

Delta R.T. -0.01 min

Lab File: VX008769.D

Acq: 09 Apr 2019 14:38

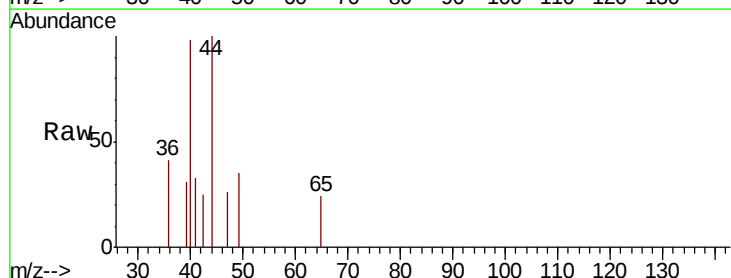
Tgt Ion: 49 Resp: 67

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

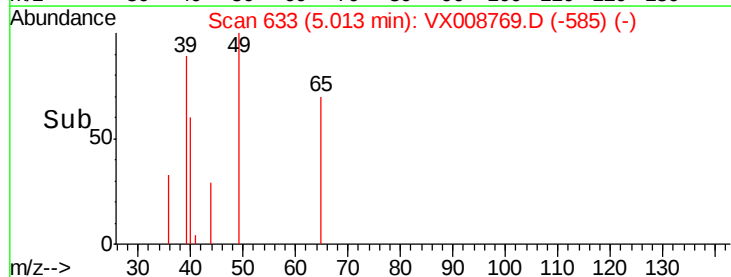
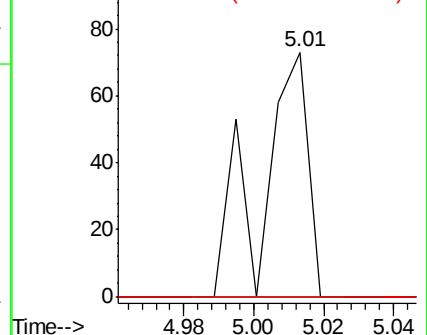
130 0.0 49.3 73.9#

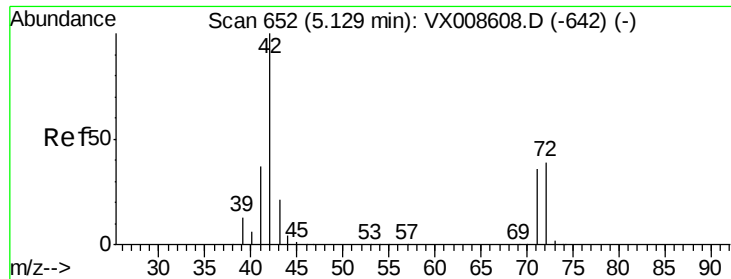


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

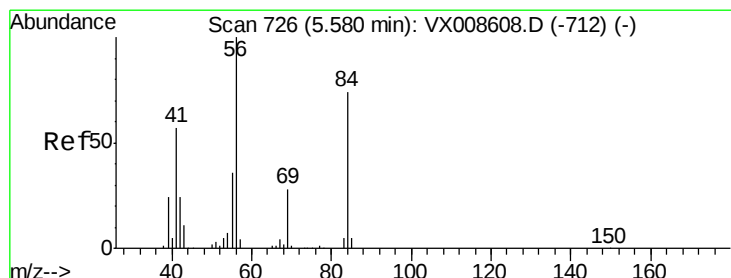
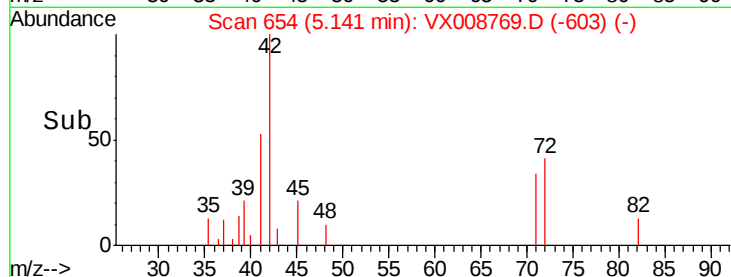
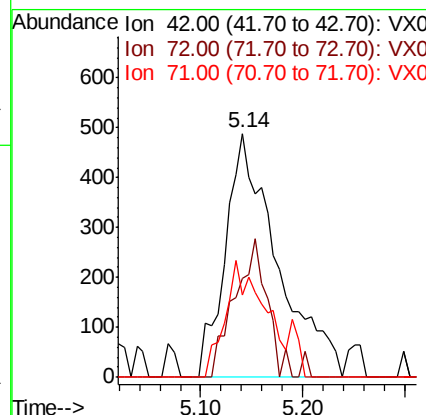
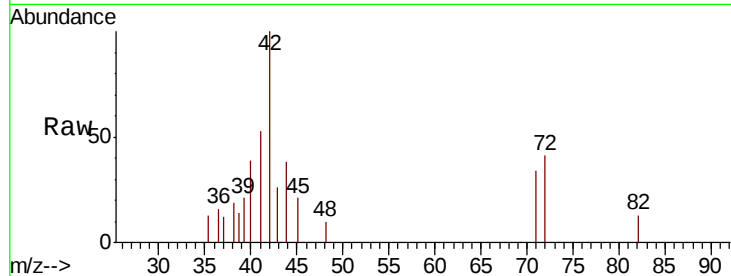




#29
Tetrahydrofuran
Concen: 0.999 ug/l
RT: 5.14 min Scan# 654
Delta R.T. 0.01 min
Lab File: VX008769.D
Acq: 09 Apr 2019 14:38

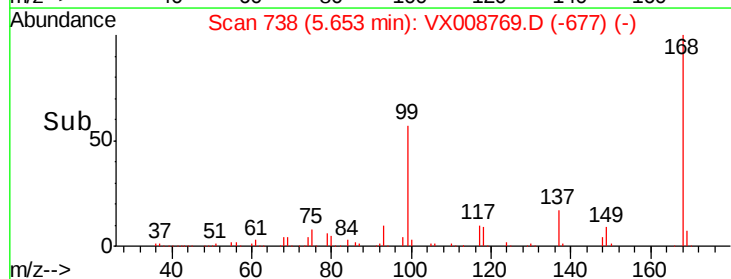
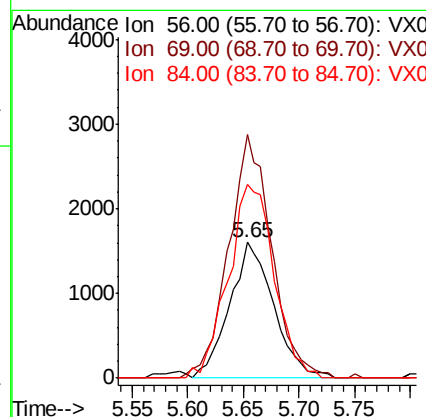
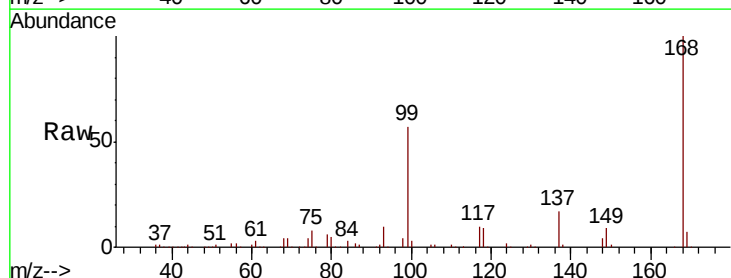
Instrument :
MSVOA_X
ClientSampleId :
TT-TB-20190404

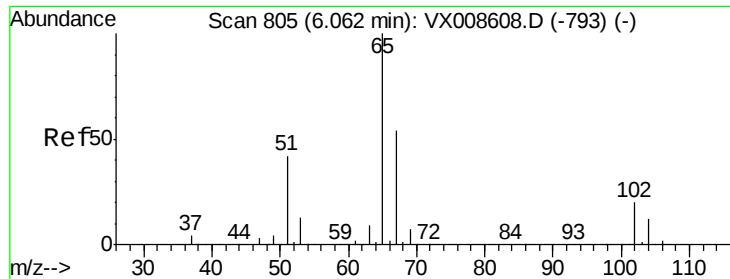
Tgt Ion: 42 Resp: 1727
Ion Ratio Lower Upper
42 100
72 35.4 30.5 45.7
71 36.1 28.6 43.0



#31
Cyclohexane
Concen: 0.894 ug/l
RT: 5.65 min Scan# 738
Delta R.T. 0.07 min
Lab File: VX008769.D
Acq: 09 Apr 2019 14:38

Tgt Ion: 56 Resp: 4418
Ion Ratio Lower Upper
56 100
69 179.2 22.6 33.8#
84 142.8 59.3 88.9#

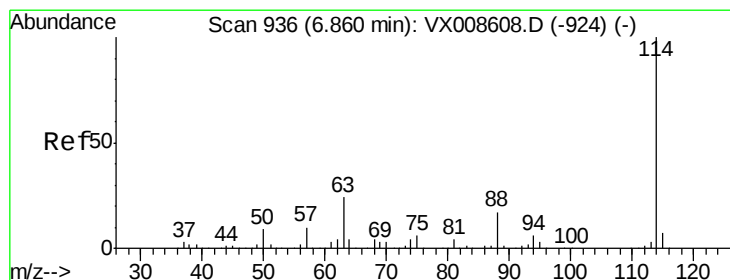
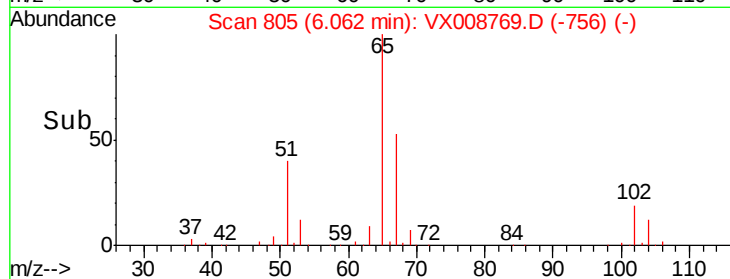
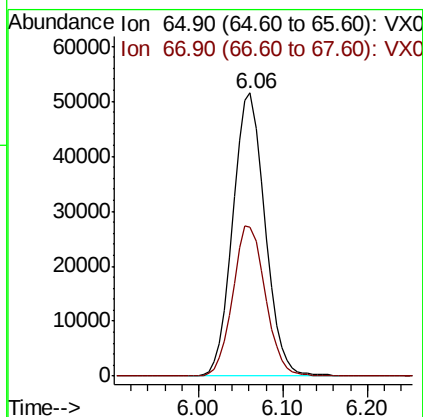
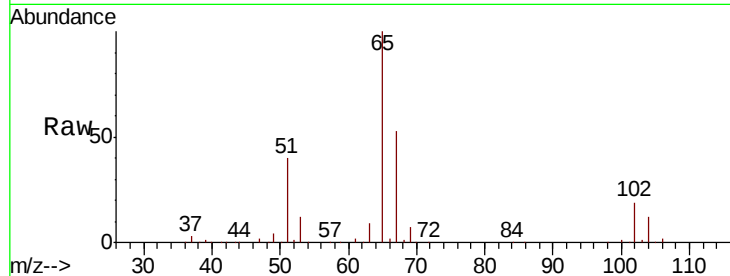




#33
 1,2-Dichloroethane-d4
 Concen: 46.546 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX008769.D
 Acq: 09 Apr 2019 14:38

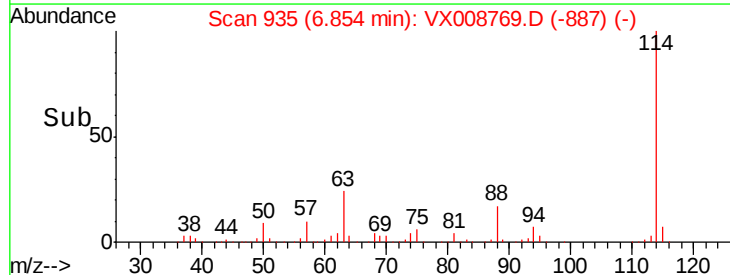
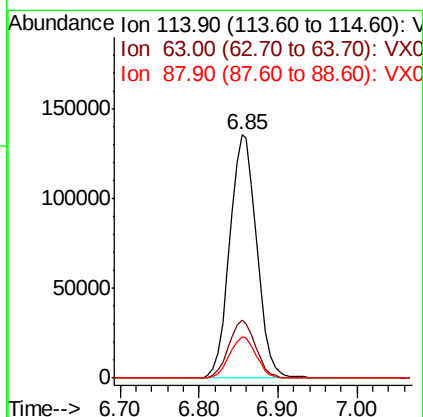
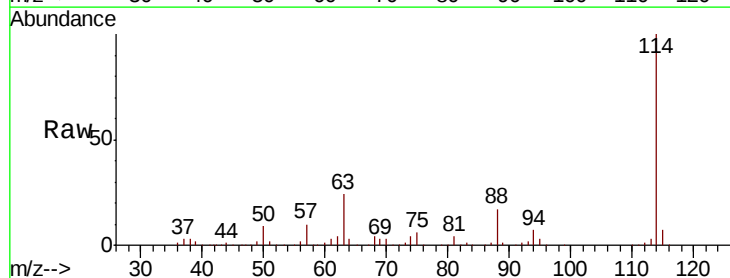
Instrument :
 MSVOA_X
 ClientSampleId :
 TT-TB-20190404

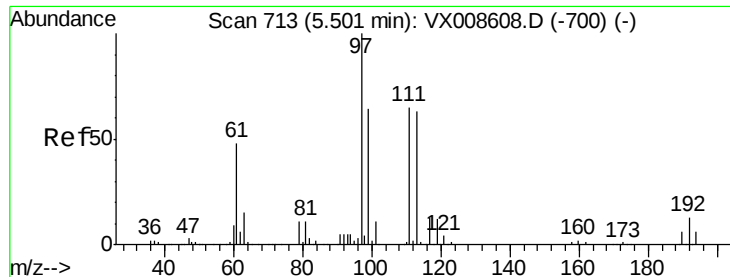
Tgt Ion: 65 Resp: 133181
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. -0.01 min
 Lab File: VX008769.D
 Acq: 09 Apr 2019 14:38

Tgt Ion: 114 Resp: 322192
 Ion Ratio Lower Upper
 114 100
 63 23.8 0.0 47.2
 88 17.1 0.0 34.0





#35

Dibromofluoromethane

Concen: 47.404 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.01 min

Lab File: VX008769.D

Acq: 09 Apr 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

TT-TB-20190404

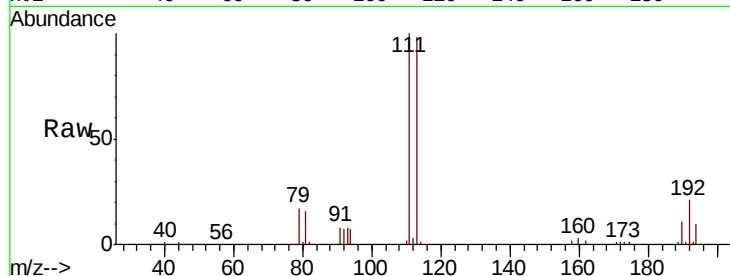
Tgt Ion:113 Resp: 97651

Ion Ratio Lower Upper

113 100

111 103.2 83.4 125.2

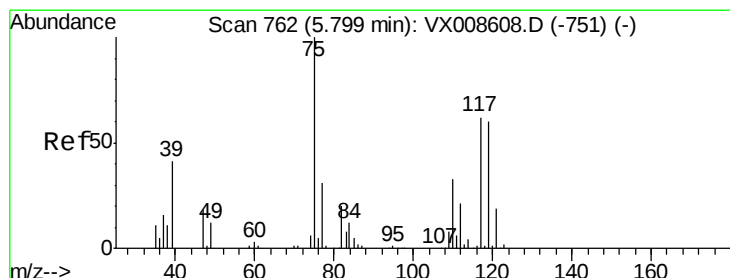
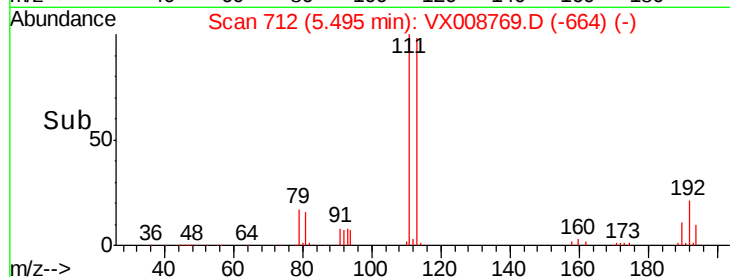
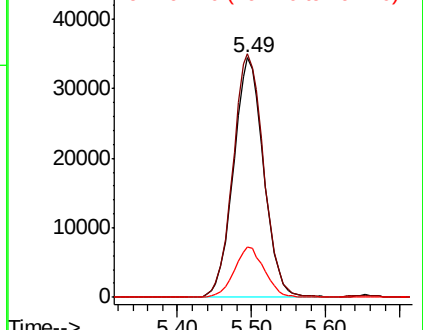
192 20.9 16.1 24.1



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: 4.506 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008769.D

Acq: 09 Apr 2019 14:38

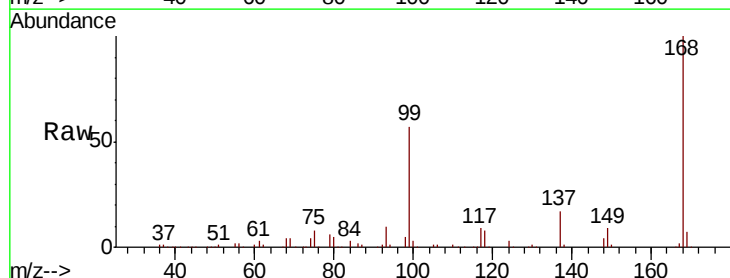
Tgt Ion: 75 Resp: 15868

Ion Ratio Lower Upper

75 100

110 8.5 16.4 49.2#

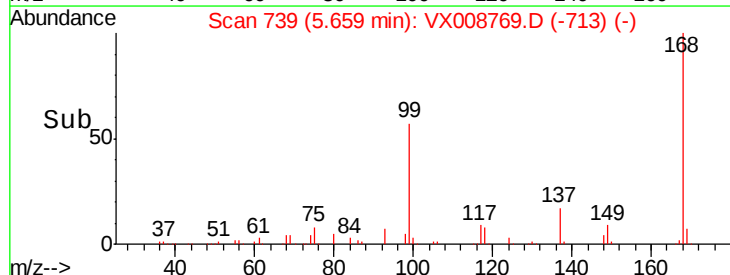
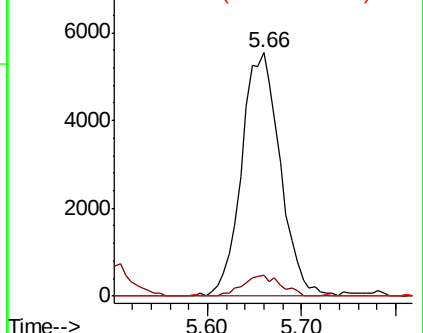
77 0.0 24.7 37.1#

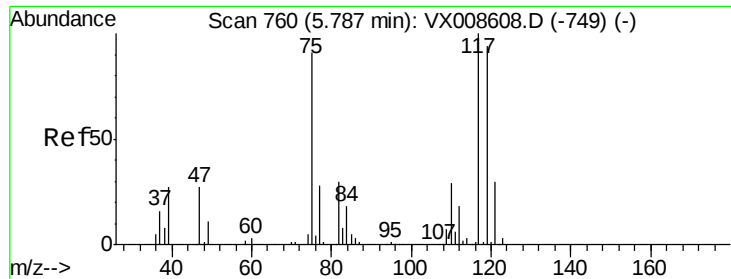


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.572 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX008769.D

Acq: 09 Apr 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

TT-TB-20190404

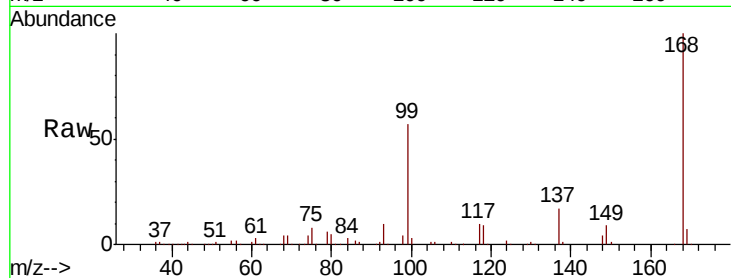
Tgt Ion:117 Resp: 19158

Ion Ratio Lower Upper

117 100

119 4.8 75.0 112.6#

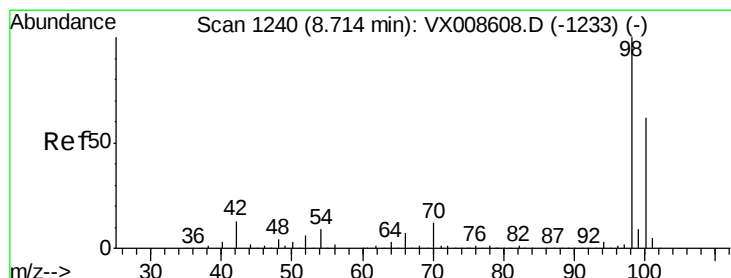
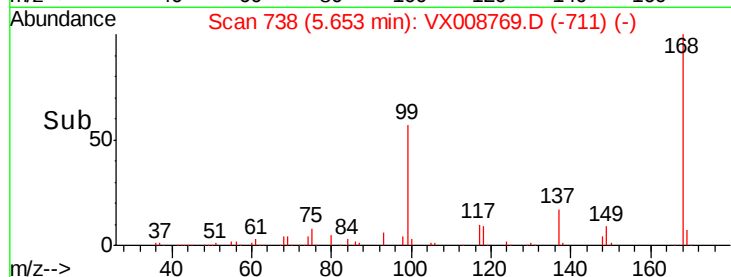
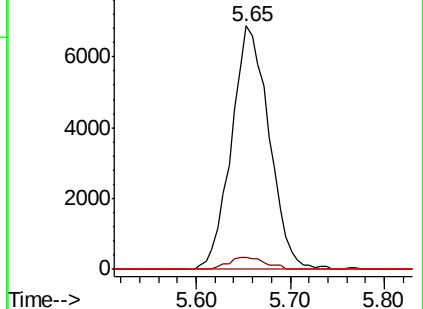
121 0.0 24.3 36.5#



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



#50

Toluene-d8

Concen: 49.555 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX008769.D

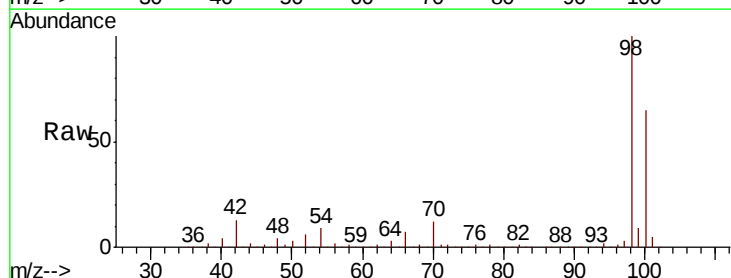
Acq: 09 Apr 2019 14:38

Tgt Ion: 98 Resp: 406460

Ion Ratio Lower Upper

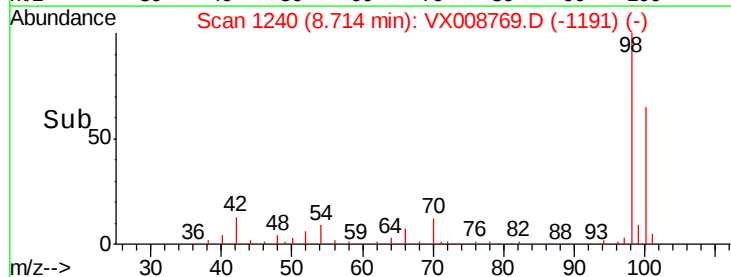
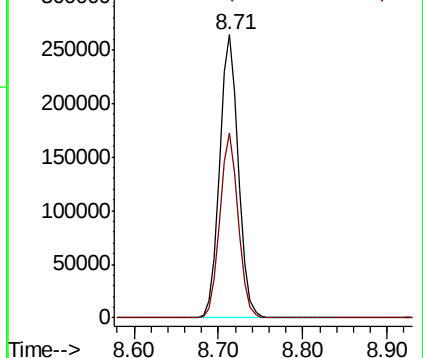
98 100

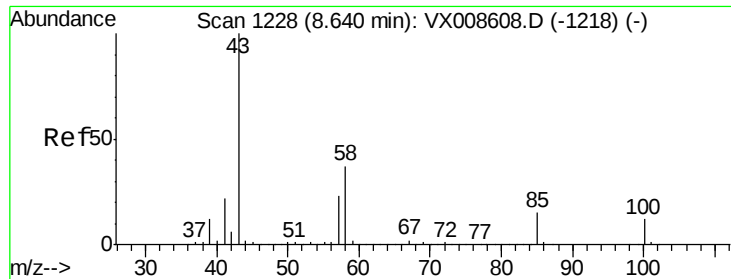
100 64.1 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

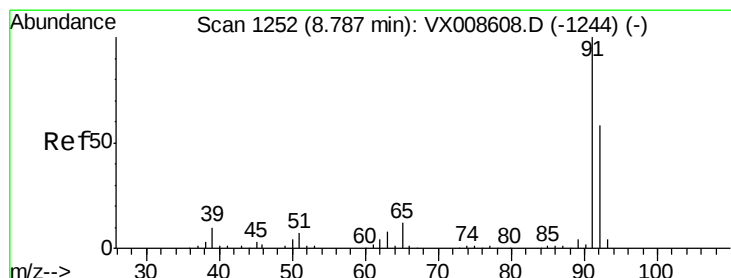
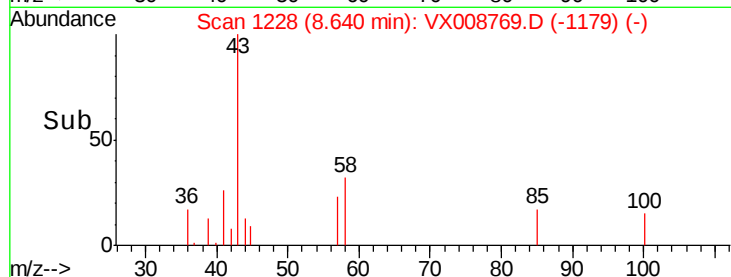
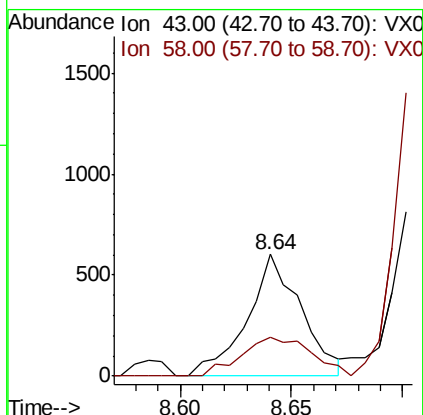
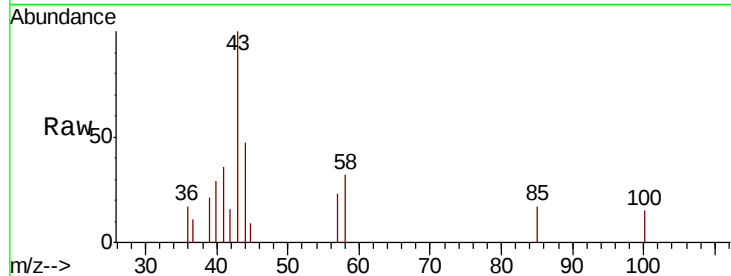




#51
4-Methyl-2-Pentanone
Concen: 0.214 ug/l
RT: 8.64 min Scan# 1228
Delta R.T. 0.00 min
Lab File: VX008769.D
Acq: 09 Apr 2019 14:38

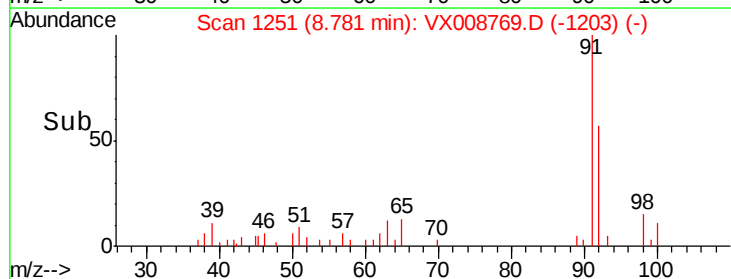
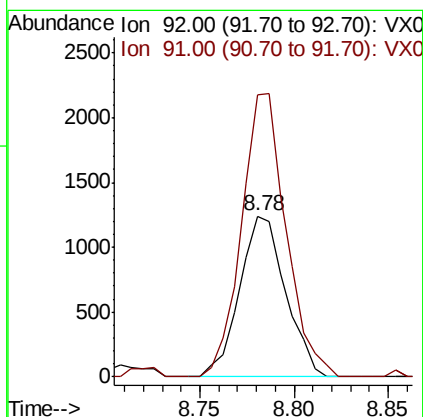
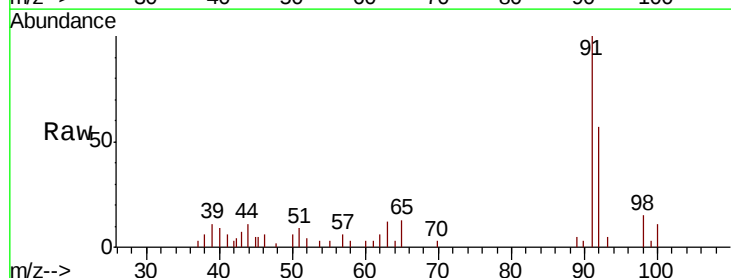
Instrument :
MSVOA_X
ClientSampleId :
TT-TB-20190404

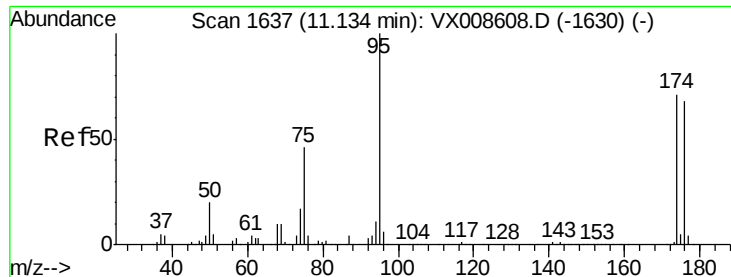
Tgt Ion: 43 Resp: 1016
Ion Ratio Lower Upper
43 100
58 41.3 29.5 44.3



#52
Toluene
Concen: 0.339 ug/l
RT: 8.78 min Scan# 1251
Delta R.T. -0.01 min
Lab File: VX008769.D
Acq: 09 Apr 2019 14:38

Tgt Ion: 92 Resp: 2097
Ion Ratio Lower Upper
92 100
91 171.0 138.5 207.7





#62

4-Bromofluorobenzene

Concen: 46.008 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX008769.D

Acq: 09 Apr 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

TT-TB-20190404

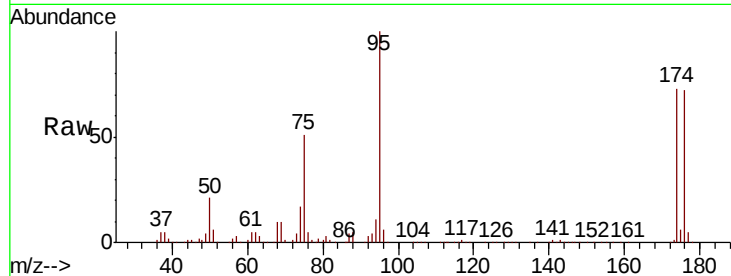
Tgt Ion: 95 Resp: 133822

Ion Ratio Lower Upper

95 100

174 76.9 0.0 151.8

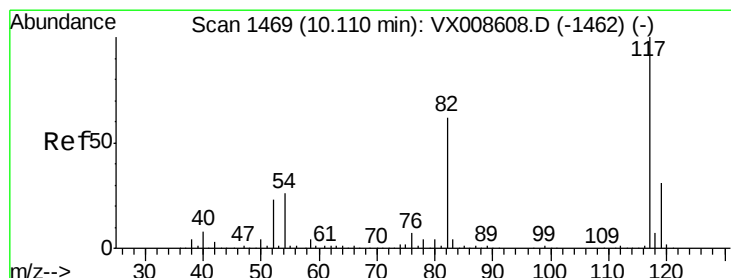
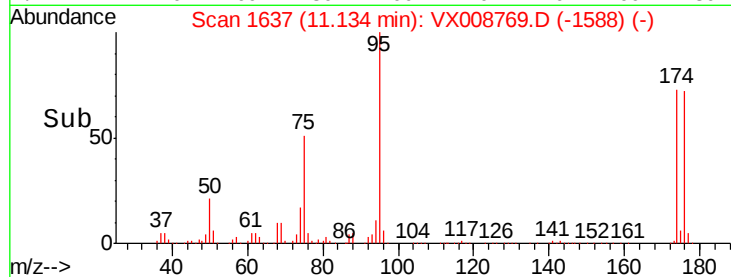
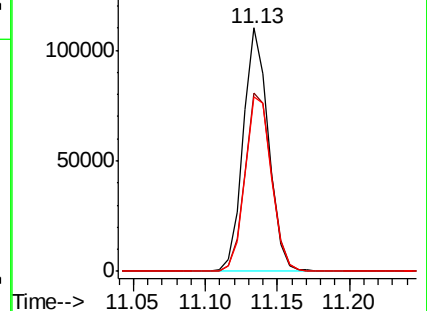
176 75.6 0.0 145.8



Abundance Ion 94.90 (94.60 to 95.60): VX008608.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX008608.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX008608.D (-1630) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX008769.D

Acq: 09 Apr 2019 14:38

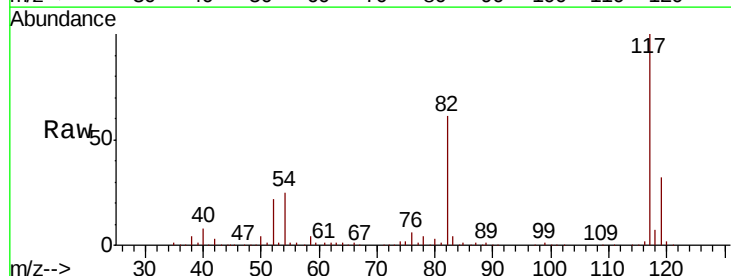
Tgt Ion: 117 Resp: 280372

Ion Ratio Lower Upper

117 100

82 61.2 49.6 74.4

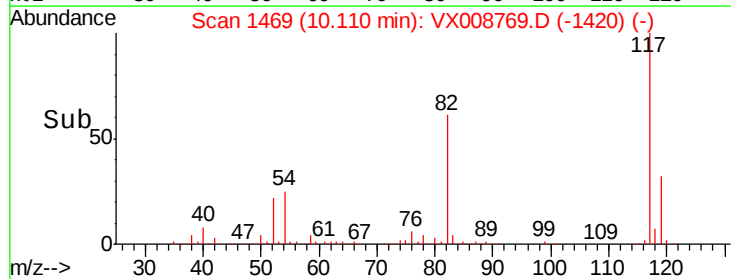
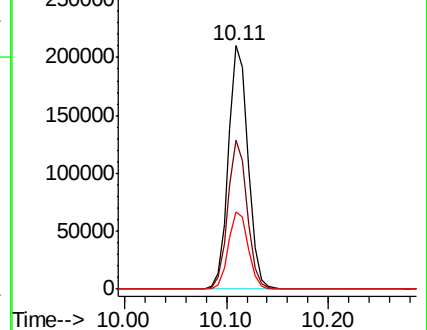
119 31.7 25.0 37.4

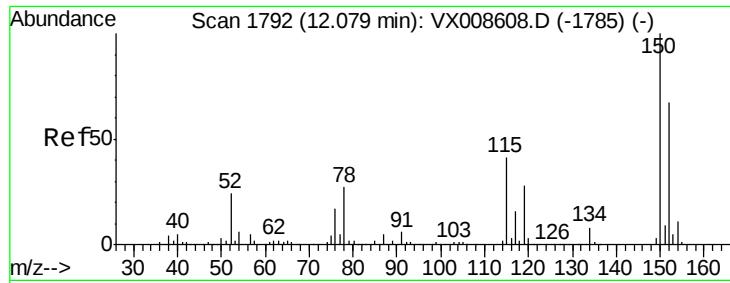


Abundance Ion 116.90 (116.60 to 117.60): VX008608.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX008608.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX008608.D (-1462) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX008769.D

Acq: 09 Apr 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

TT-TB-20190404

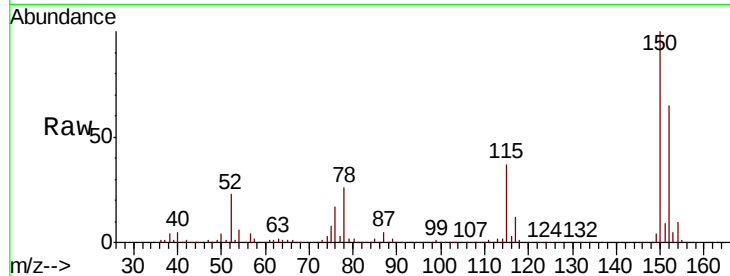
Tgt Ion:152 Resp: 116367

Ion Ratio Lower Upper

152 100

115 59.8 43.5 130.5

150 156.6 0.0 348.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

200000

150000

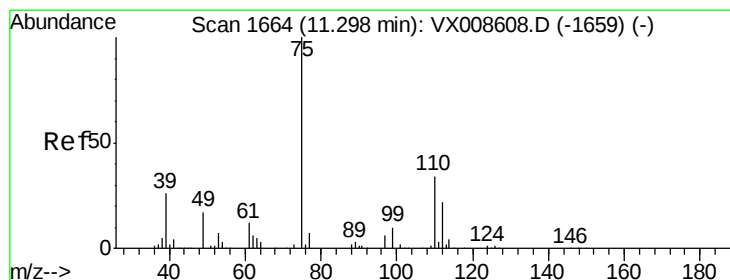
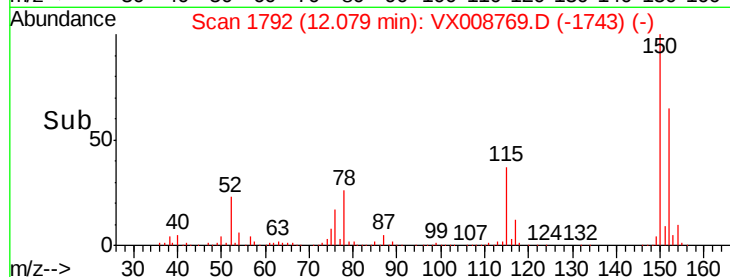
100000

50000

0

12.08

Time-->



#76

1,2,3-Trichloropropane

Concen: 21.149 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008769.D

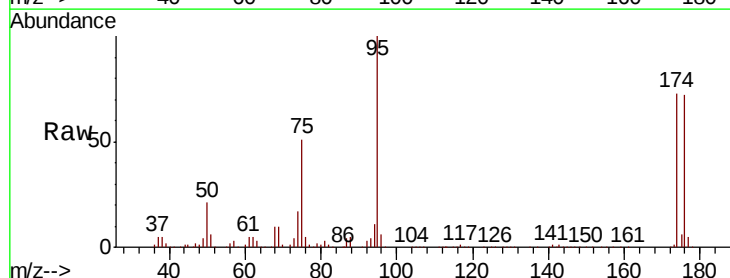
Acq: 09 Apr 2019 14:38

Tgt Ion: 75 Resp: 67608

Ion Ratio Lower Upper

75 100

77 1.3 22.3 66.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

60000

50000

40000

30000

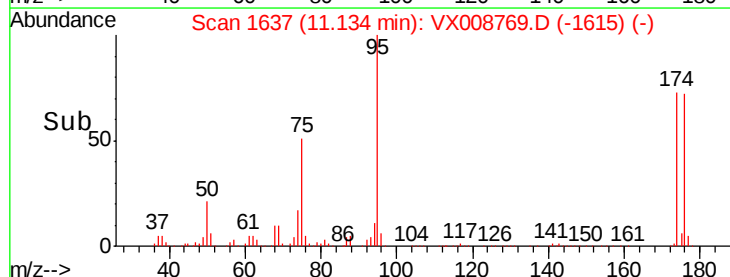
20000

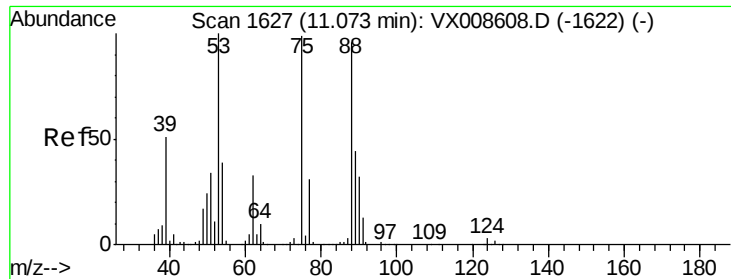
10000

0

11.13

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 58.299 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008769.D

Acq: 09 Apr 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

TT-TB-20190404

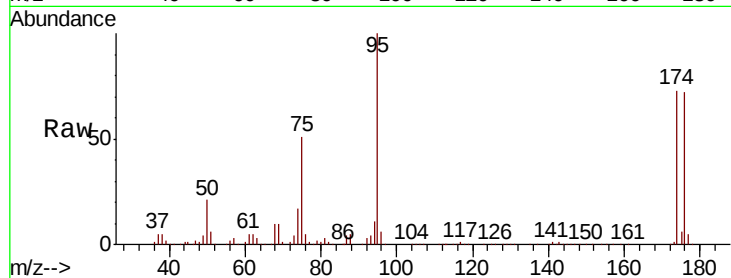
Tgt Ion: 75 Resp: 67608

Ion Ratio Lower Upper

75 100

53 0.0 81.3 121.9#

89 0.0 35.6 53.4#



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

