

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032419\
 Data File : VX008391.D
 Acq On : 24 Mar 2019 14:55
 Operator : JC/SP
 Sample : K1945-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 M4-T1-UV(PRE)

Quant Time: Mar 25 05:46:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 23 15:27:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	222611	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	387566	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	330145	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	135078	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	164924	48.57	ug/l	0.00
Spiked Amount			Recovery	=	97.14%	
35) Dibromofluoromethane	5.50	113	120970	48.18	ug/l	0.00
Spiked Amount			Recovery	=	96.36%	
50) Toluene-d8	8.71	98	483516	48.68	ug/l	0.00
Spiked Amount			Recovery	=	97.36%	
62) 4-Bromofluorobenzene	11.13	95	162993	44.70	ug/l	0.00
Spiked Amount			Recovery	=	89.40%	

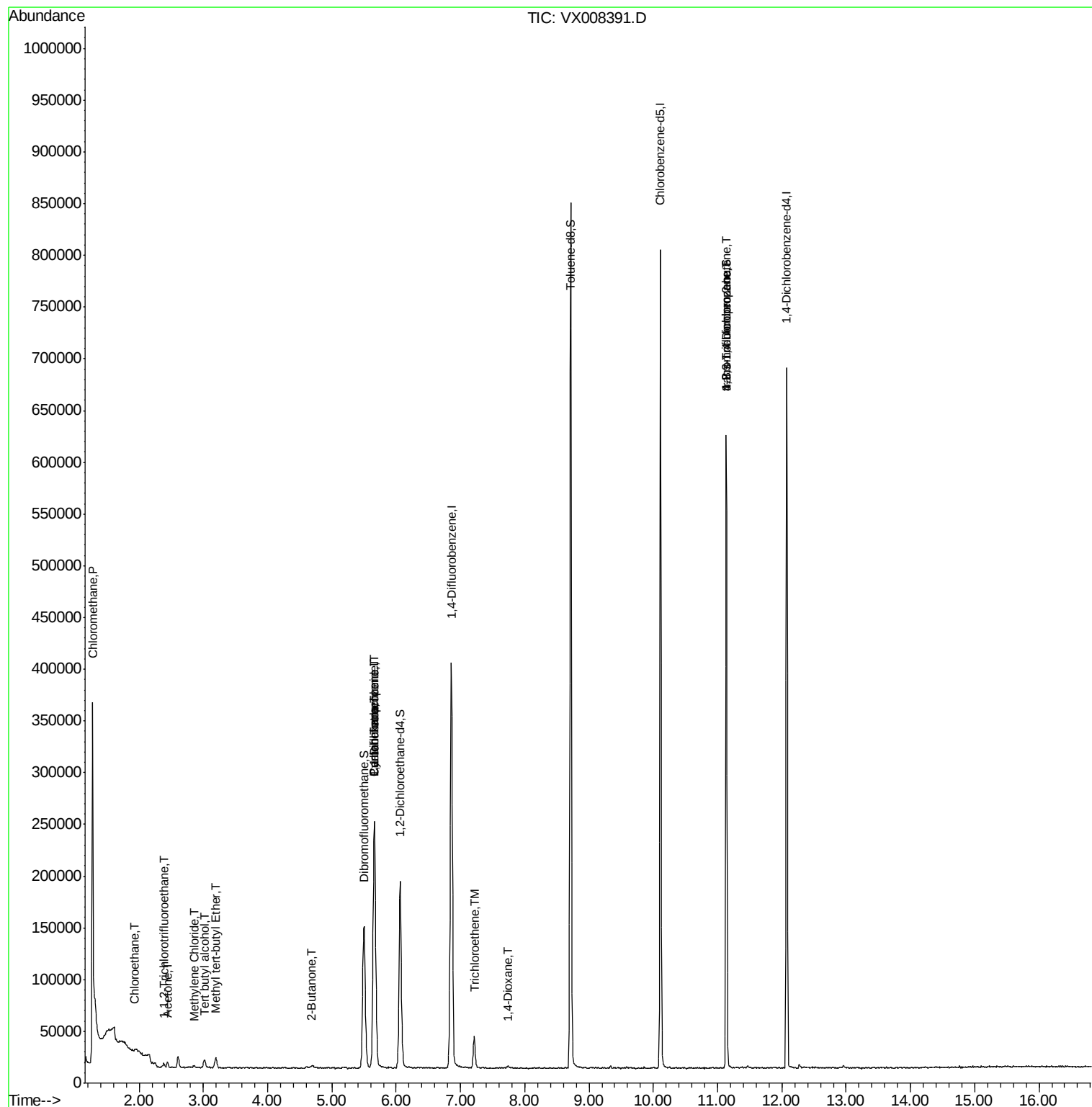
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.28	50	7452	1.995	ug/l #	44
6) Chloroethane	1.93	64	1531	0.717	ug/l #	51
9) 1,1,2-Trichlorotrifluoroet	2.39	101	1129	0.460	ug/l #	83
11) Tert butyl alcohol	3.01	59	5045	6.671	ug/l #	79
16) Acetone	2.44	43	5609	3.305	ug/l	99
19) Methyl tert-butyl Ether	3.20	73	10049	1.100	ug/l	94
20) Methylene Chloride	2.85	84	858	0.281	ug/l #	89
25) 2-Butanone	4.68	43	773	0.277	ug/l #	50
31) Cyclohexane	5.65	56	5590	1.047	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	19243	4.859	ug/l #	49
38) Carbon Tetrachloride	5.66	117	23013	6.779	ug/l #	18
44) Trichloroethene	7.22	130	11080	3.956	ug/l	93
49) 1,4-Dioxane	7.74	88	1528	17.982	ug/l #	76
76) 1,2,3-Trichloropropane	11.13	75	84452	23.886	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	84452	68.068	ug/l #	12

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX008391.D

Acq: 24 Mar 2019 14:55

Instrument :

MSVOA_X

ClientSampleId :

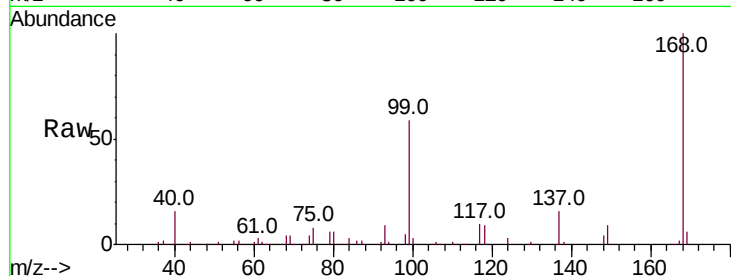
M4-T1-UV(PRE)

Tot Ion:168 Resp: 222611

Ion Ratio Lower Upper

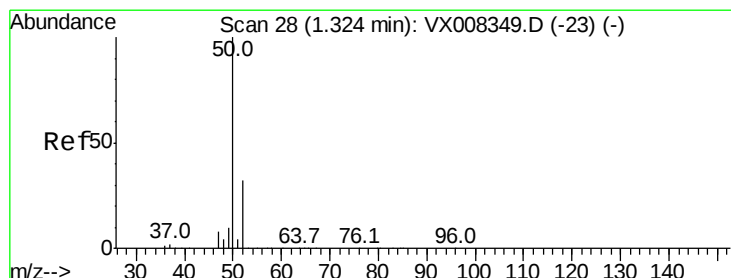
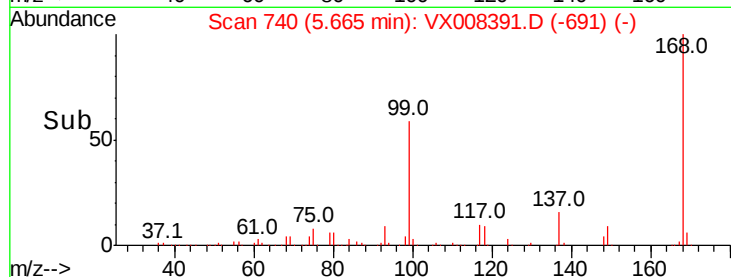
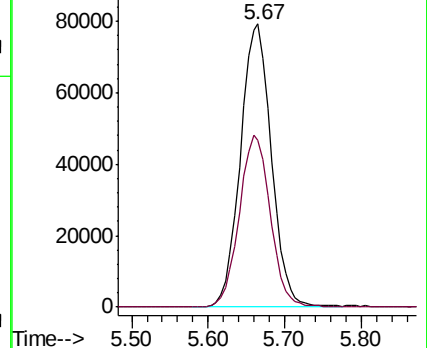
168 100

99 58.9 37.6 56.4#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 1.995 ug/l

RT: 1.28 min Scan# 20

Delta R.T. -0.05 min

Lab File: VX008391.D

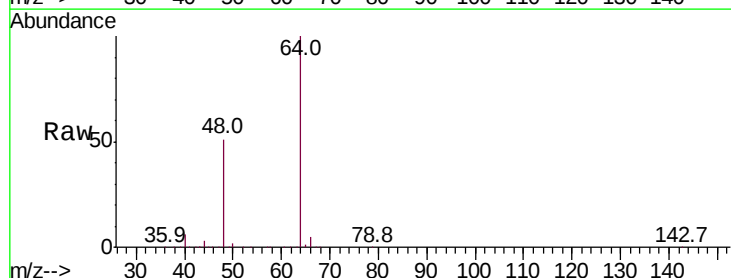
Acq: 24 Mar 2019 14:55

Tgt Ion: 50 Resp: 7452

Ion Ratio Lower Upper

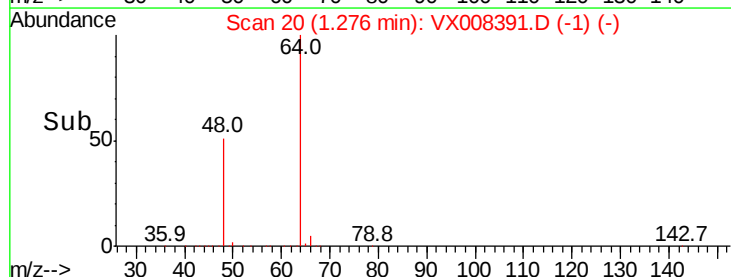
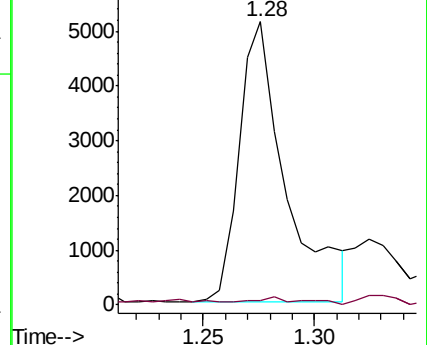
50 100

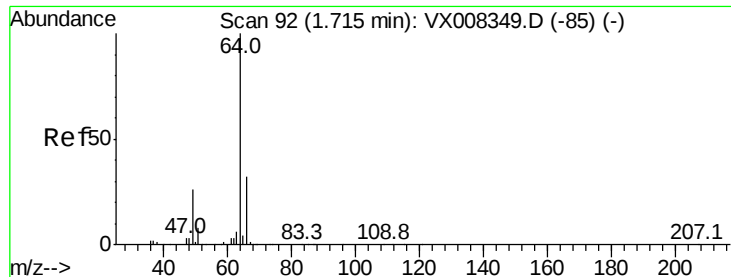
52 1.4 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#6

Chloroethane

Concen: 0.717 ug/l

RT: 1.93 min Scan# 127

Delta R.T. 0.21 min

Lab File: VX008391.D

Acq: 24 Mar 2019 14:55

Instrument :

MSVOA_X

ClientSampleId :

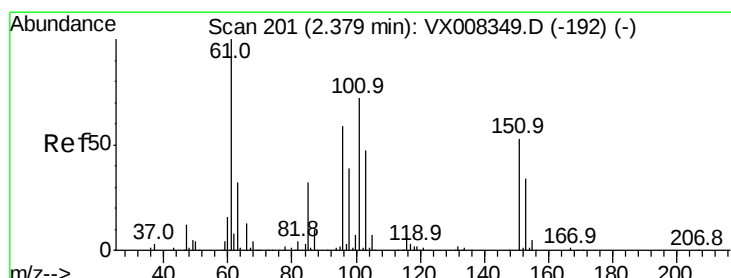
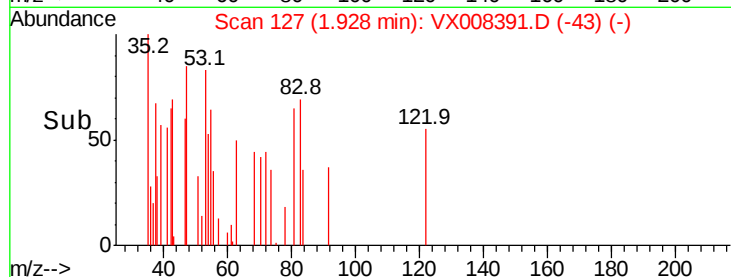
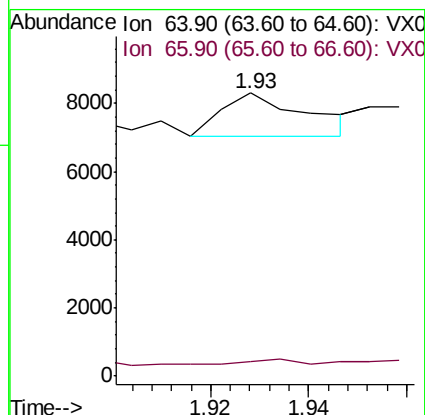
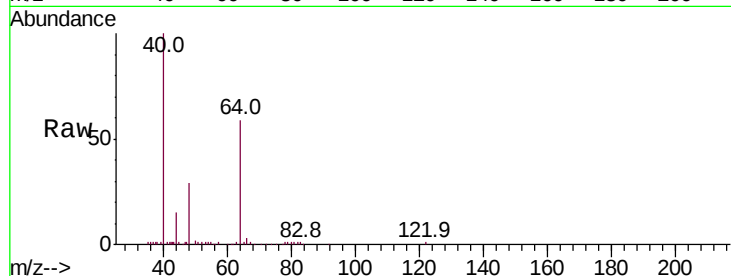
M4-T1-UV(PRE)

Tot Ion: 64 Resp: 1531

Ion Ratio Lower Upper

64 100

66 4.3 25.2 37.8#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.460 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.01 min

Lab File: VX008391.D

Acq: 24 Mar 2019 14:55

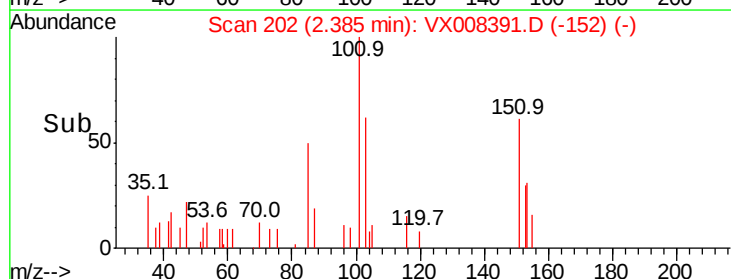
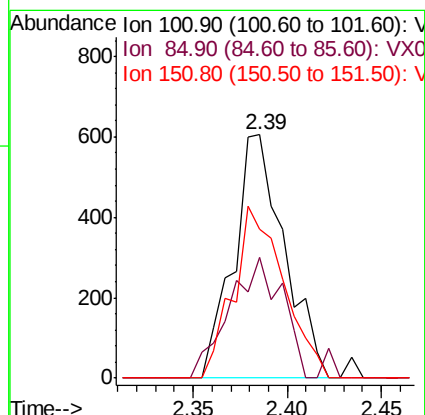
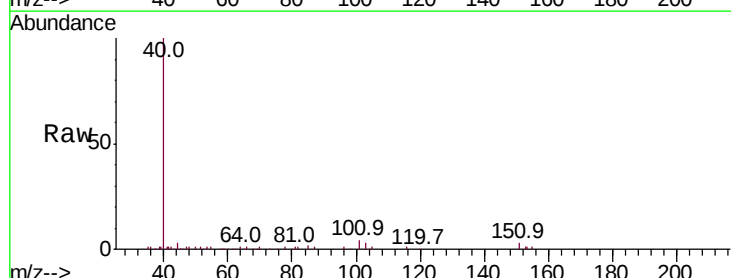
Tgt Ion:101 Resp: 1129

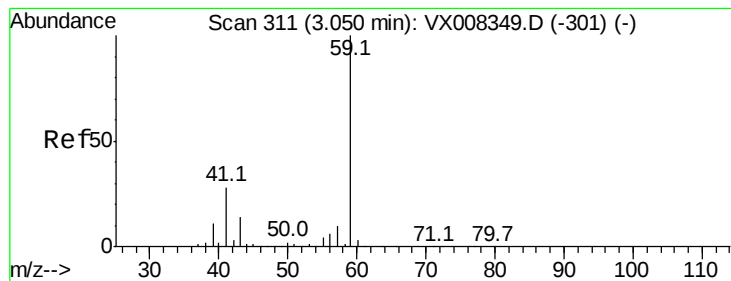
Ion Ratio Lower Upper

101 100

85 51.9 33.8 50.6#

151 70.2 69.1 103.7



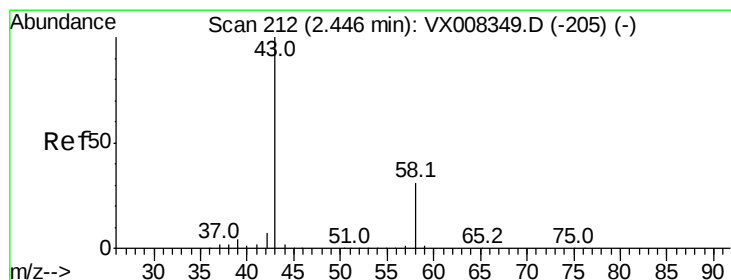
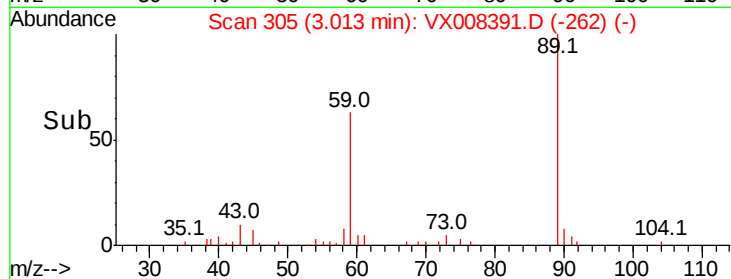
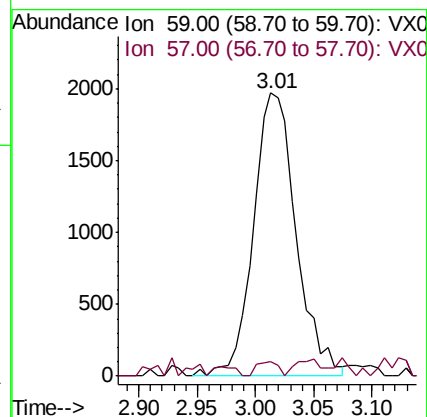
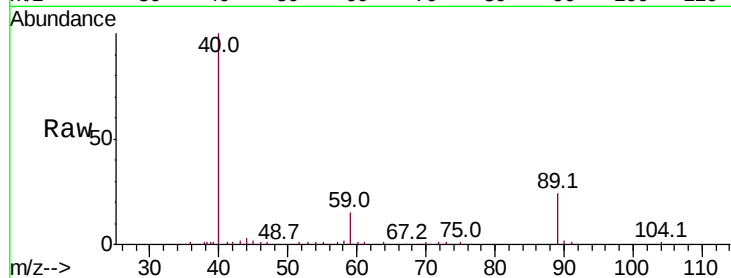


#11

Tert butyl alcohol
Concen: 6.671 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX008391.D
Acq: 24 Mar 2019 14:55

Instrument :
MSVOA_X
ClientSampleId :
M4-T1-UV(PRE)

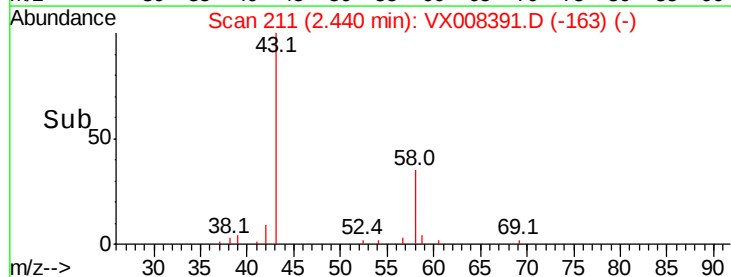
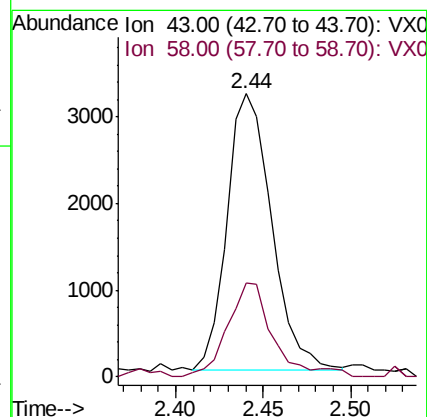
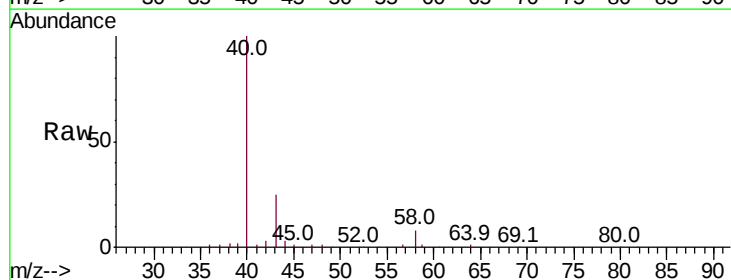
Tot Ion: 59 Resp: 5045
Ion Ratio Lower Upper
59 100
57 2.5 8.2 12.2#

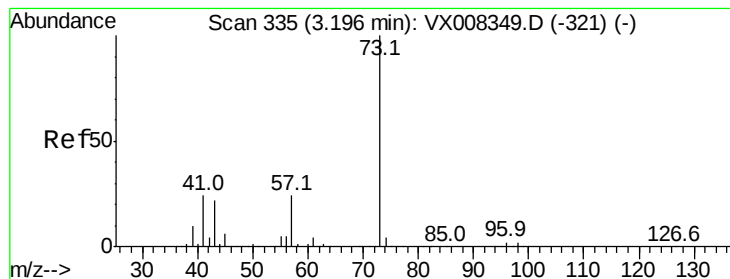


#16

Acetone
Concen: 3.305 ug/l
RT: 2.44 min Scan# 211
Delta R.T. -0.01 min
Lab File: VX008391.D
Acq: 24 Mar 2019 14:55

Tgt Ion: 43 Resp: 5609
Ion Ratio Lower Upper
43 100
58 32.5 25.5 38.3



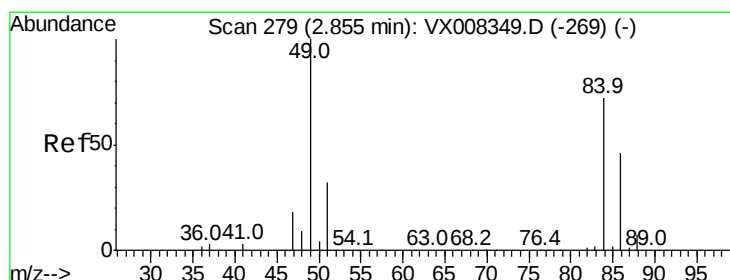
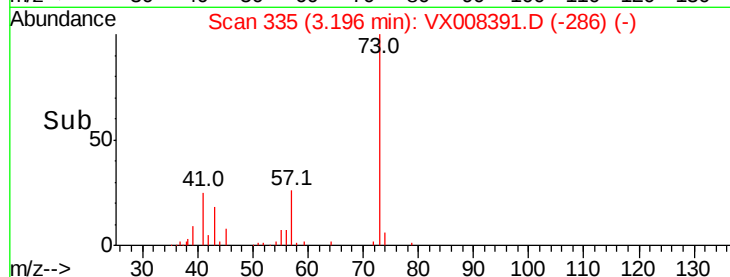
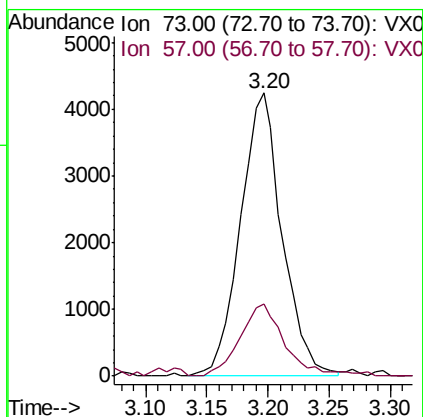
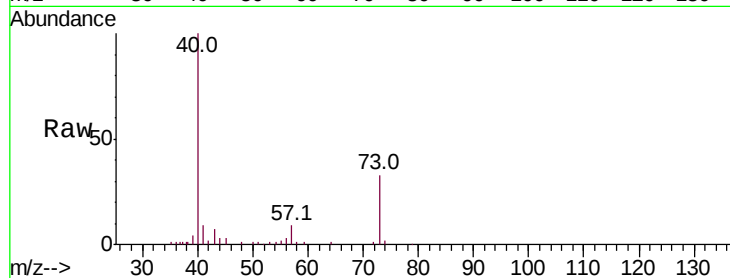


#19

Methyl tert-butyl Ether
 Concen: 1.100 ug/l
 RT: 3.20 min Scan# 335
 Delta R.T. 0.00 min
 Lab File: VX008391.D
 Acq: 24 Mar 2019 14:55

Instrument :
 MSVOA_X
 ClientSampleId :
 M4-T1-UV(PRE)

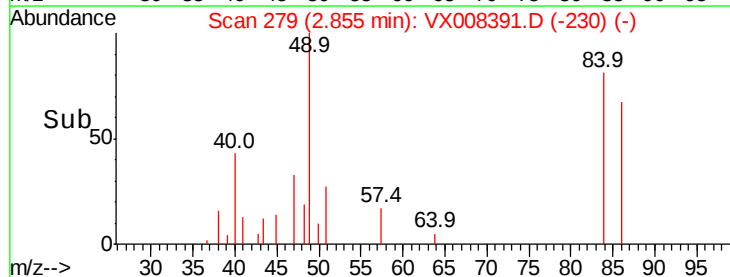
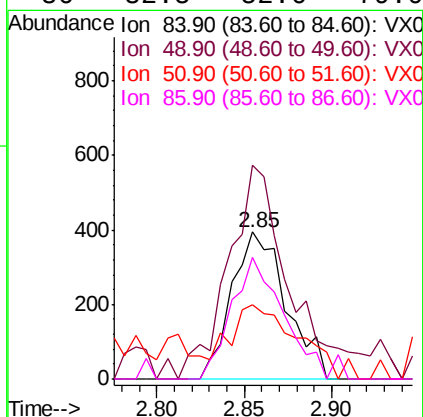
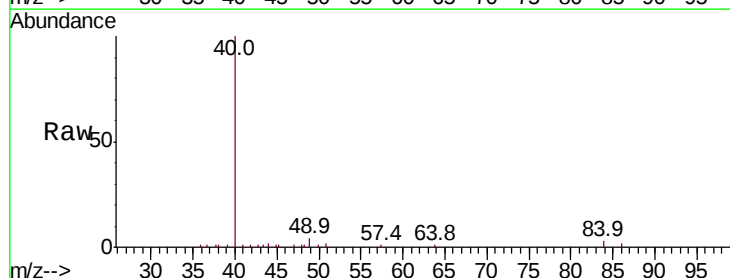
Tot Ion: 73 Resp: 10049
 Ion Ratio Lower Upper
 73 100
 57 25.6 18.2 27.4

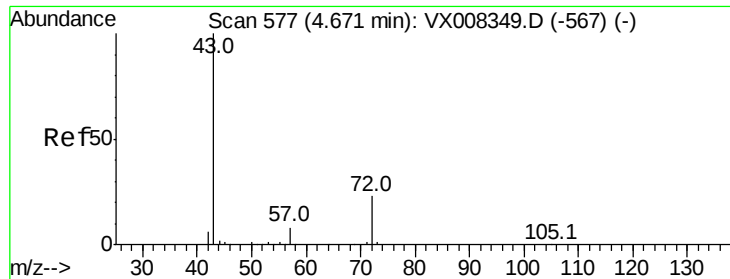


#20

Methylene Chloride
 Concen: 0.281 ug/l
 RT: 2.85 min Scan# 279
 Delta R.T. 0.00 min
 Lab File: VX008391.D
 Acq: 24 Mar 2019 14:55

Tgt Ion: 84 Resp: 858
 Ion Ratio Lower Upper
 84 100
 49 128.1 99.3 148.9
 51 50.4 31.3 46.9#
 86 82.5 52.6 79.0#

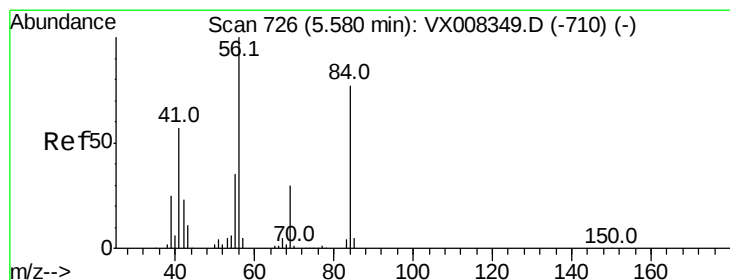
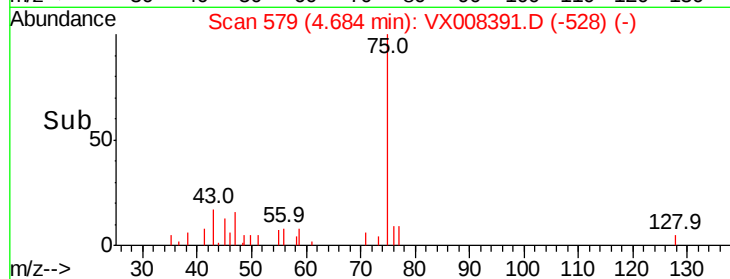
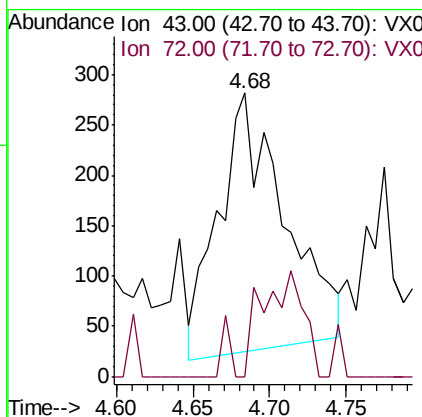
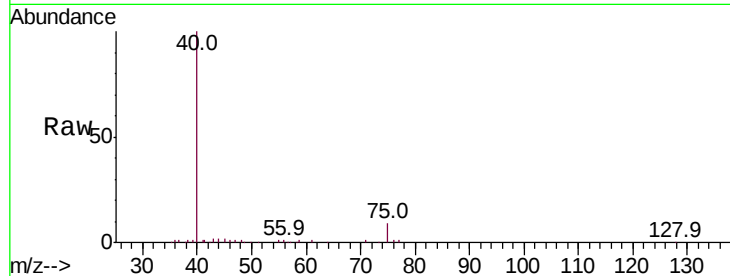




#25
2-Butanone
Concen: 0.277 ug/l
RT: 4.68 min Scan# 579
Delta R.T. 0.01 min
Lab File: VX008391.D
Acq: 24 Mar 2019 14:55

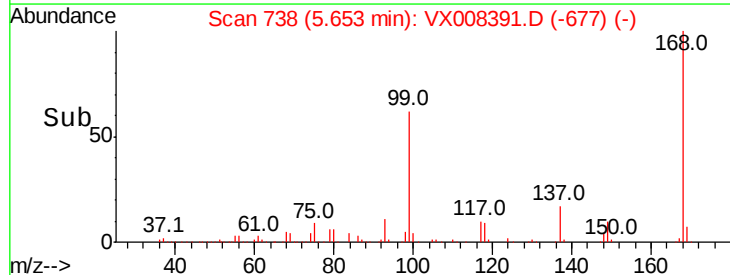
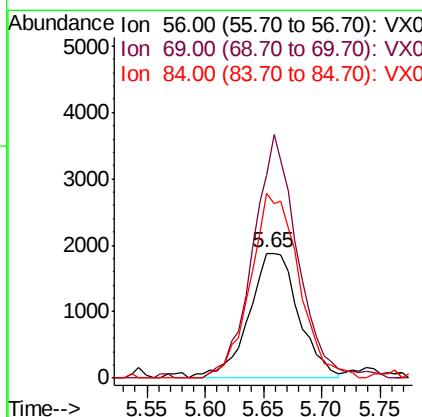
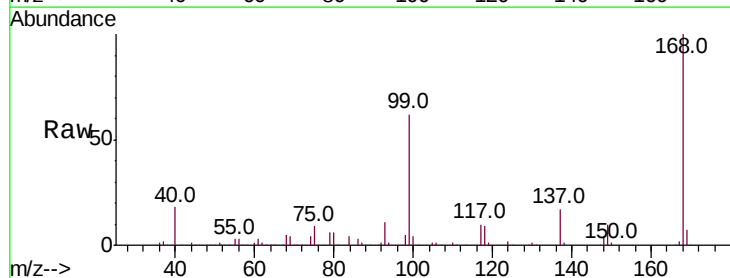
Instrument :
MSVOA_X
ClientSampleId :
M4-T1-UV(PRE)

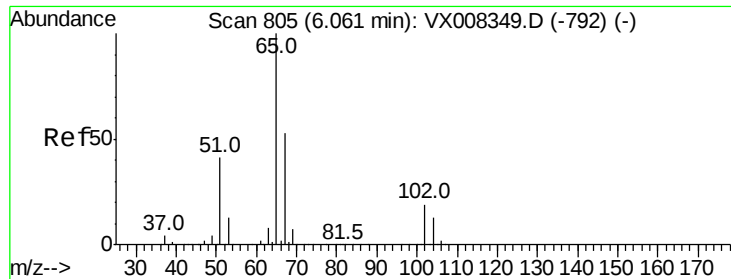
Tot Ion: 43 Resp: 773
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#



#31
Cyclohexane
Concen: 1.047 ug/l
RT: 5.65 min Scan# 738
Delta R.T. 0.07 min
Lab File: VX008391.D
Acq: 24 Mar 2019 14:55

Tgt Ion: 56 Resp: 5590
Ion Ratio Lower Upper
56 100
69 162.0 24.0 36.0#
84 147.1 65.3 97.9#





#33

1,2-Dichloroethane-d4

Concen: 48.575 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX008391.D

Acq: 24 Mar 2019 14:55

Instrument :

MSVOA_X

ClientSampleId :

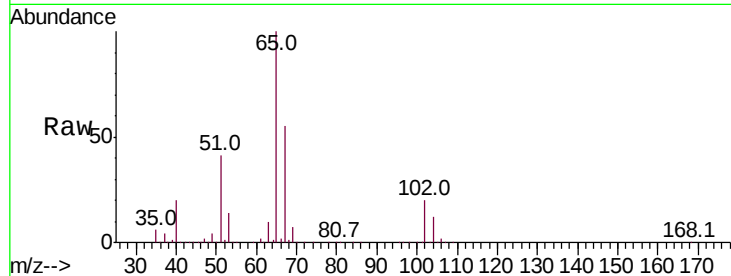
M4-T1-UV(PRE)

Tot Ion: 65 Resp: 164924

Ion Ratio Lower Upper

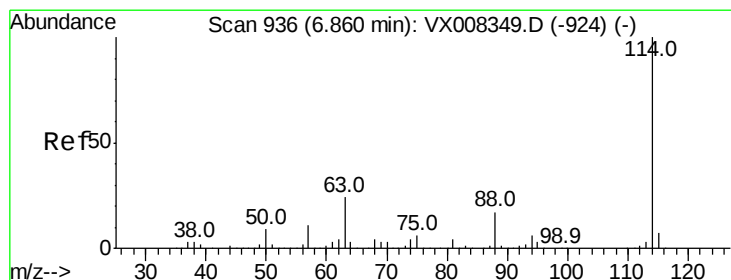
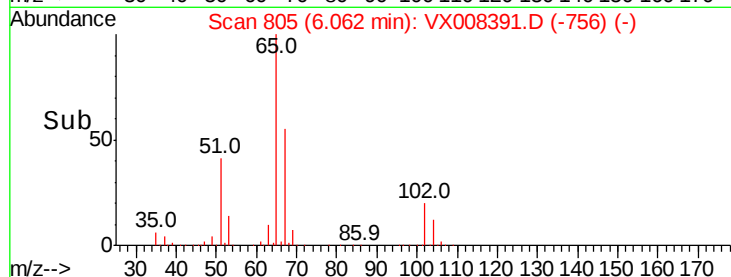
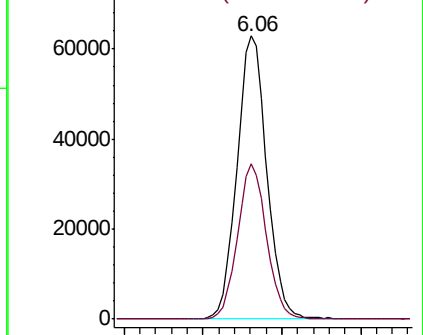
65 100

67 53.4 0.0 110.0



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: VX008391.D

Acq: 24 Mar 2019 14:55

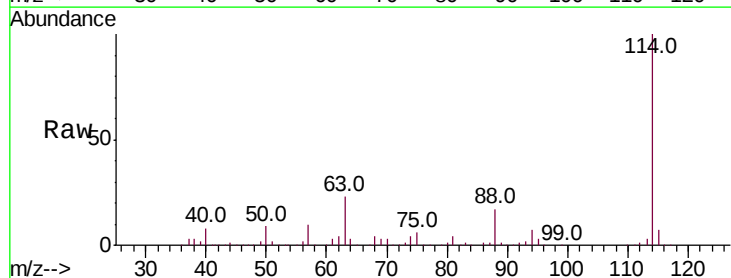
Tgt Ion:114 Resp: 387566

Ion Ratio Lower Upper

114 100

63 23.4 0.0 39.8

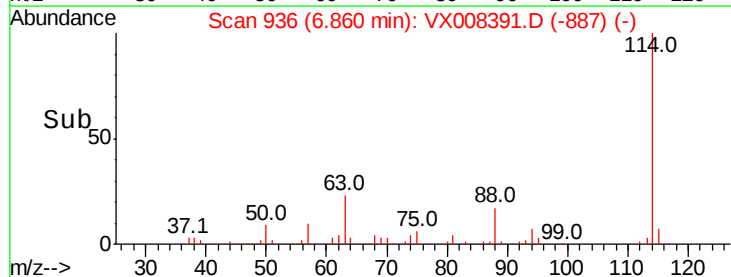
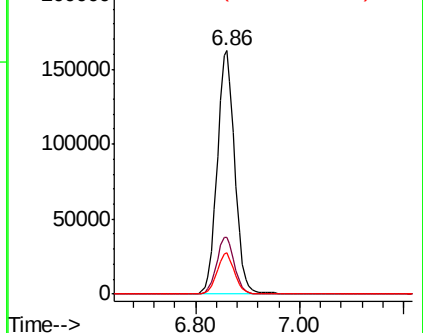
88 16.8 0.0 31.4

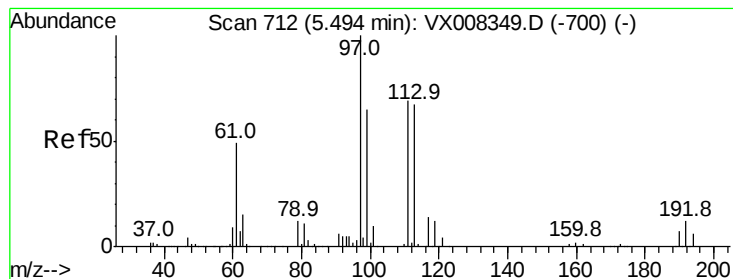


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.176 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX008391.D

Acq: 24 Mar 2019 14:55

Instrument :

MSVOA_X

ClientSampleId :

M4-T1-UV(PRE)

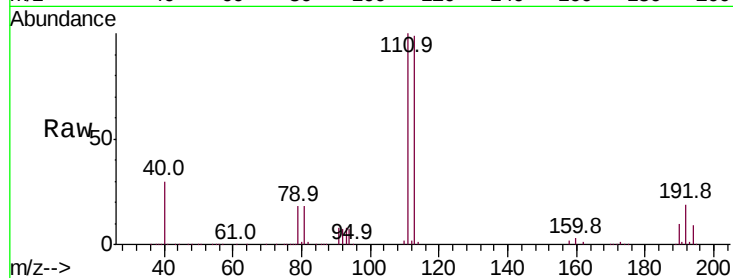
Tot Ion:113 Resp: 120970

Ion Ratio Lower Upper

113 100

111 102.1 81.4 122.0

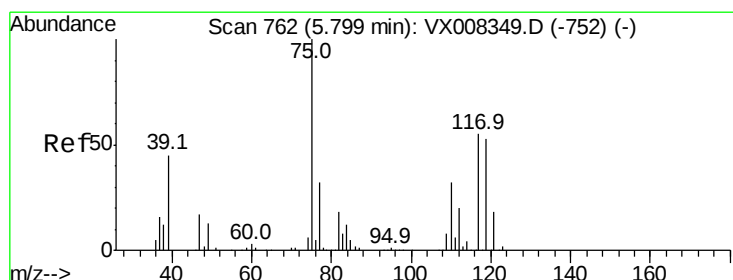
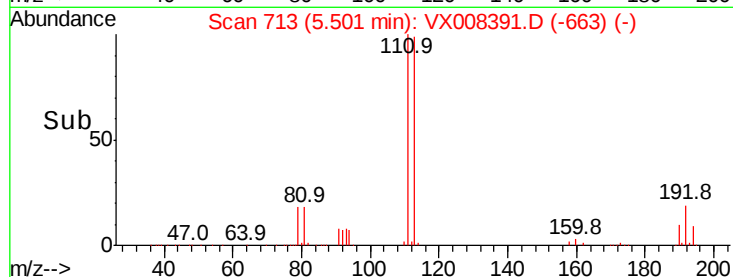
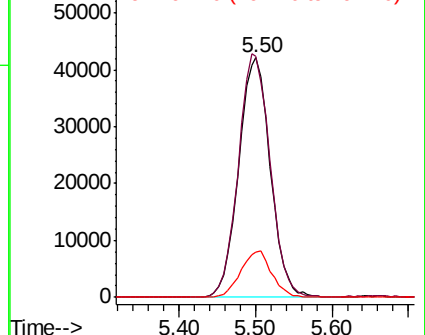
192 18.9 19.4 29.0#



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: 4.859 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008391.D

Acq: 24 Mar 2019 14:55

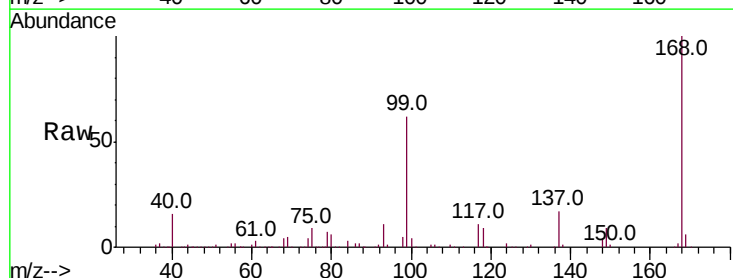
Tgt Ion: 75 Resp: 19243

Ion Ratio Lower Upper

75 100

110 8.6 18.4 55.0#

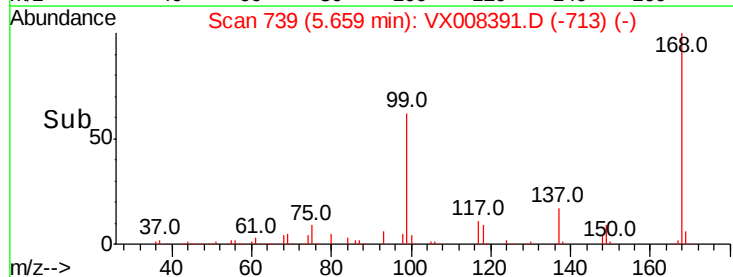
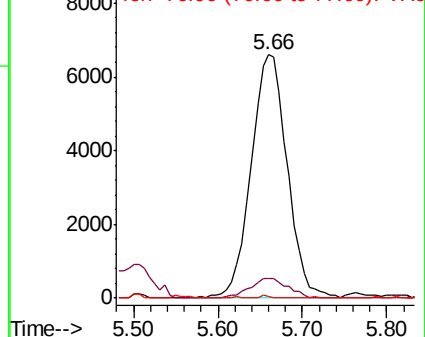
77 0.3 25.0 37.4#

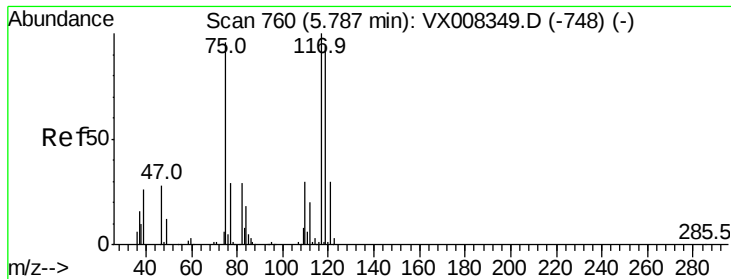


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

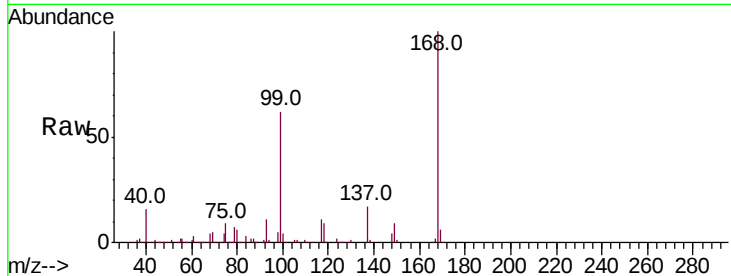




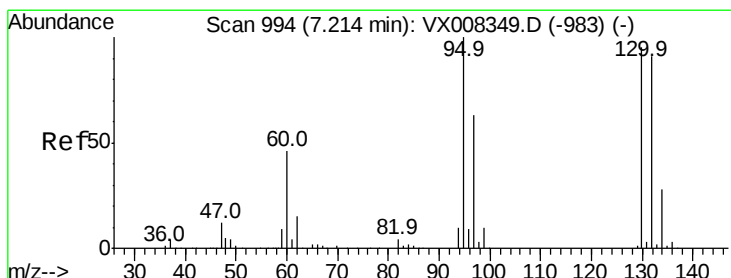
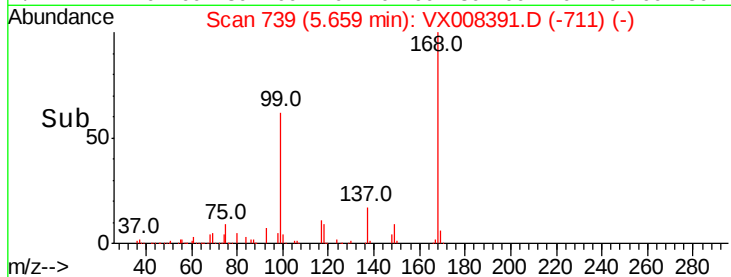
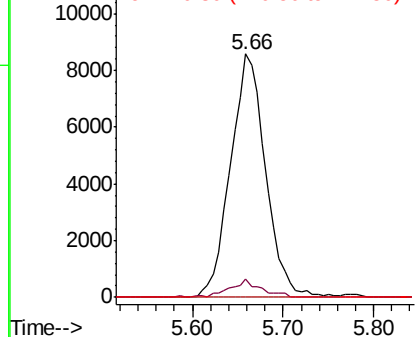
#38
Carbon Tetrachloride
Concen: 6.779 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.13 min
Lab File: VX008391.D
Acq: 24 Mar 2019 14:55

Instrument :
MSVOA_X
ClientSampleId :
M4-T1-UV(PRE)

Tot Ion:117 Resp: 23013
Ion Ratio Lower Upper
117 100
119 7.3 76.2 114.2#
121 0.0 24.6 36.8#

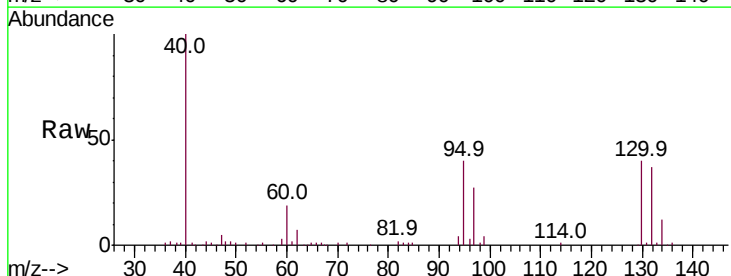


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

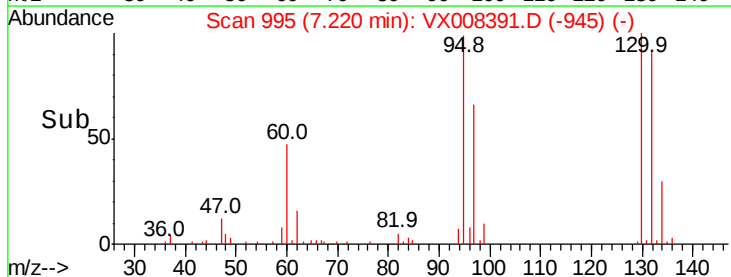
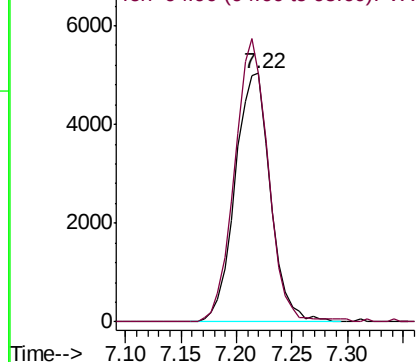


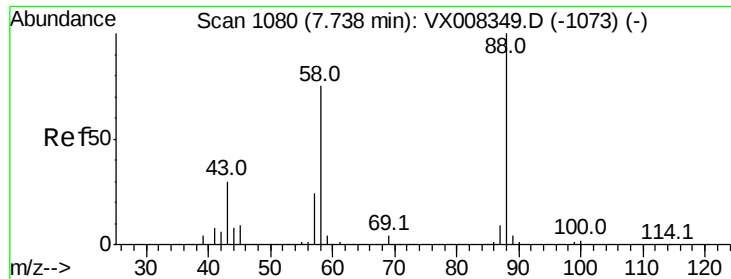
#44
Trichloroethene
Concen: 3.956 ug/l
RT: 7.22 min Scan# 995
Delta R.T. 0.01 min
Lab File: VX008391.D
Acq: 24 Mar 2019 14:55

Tgt Ion:130 Resp: 11080
Ion Ratio Lower Upper
130 100
95 100.3 0.0 188.0



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





#49

1,4-Dioxane

Concen: 17.982 ug/l

RT: 7.74 min Scan# 1081

Delta R.T. 0.01 min

Lab File: VX008391.D

Acq: 24 Mar 2019 14:55

Instrument :

MSVOA_X

ClientSampleId :

M4-T1-UV(PRE)

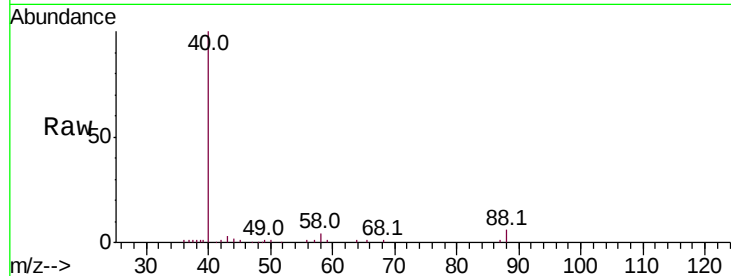
Tot Ion: 88 Resp: 1528

Ion Ratio Lower Upper

88 100

43 46.7 25.1 37.7#

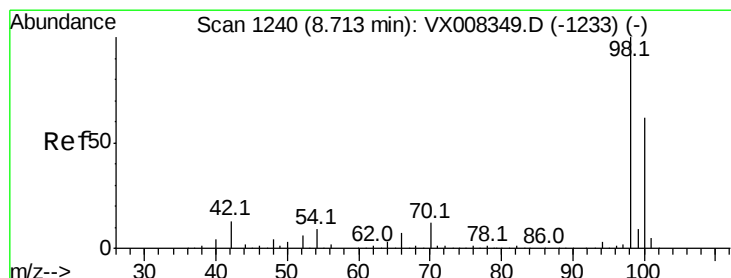
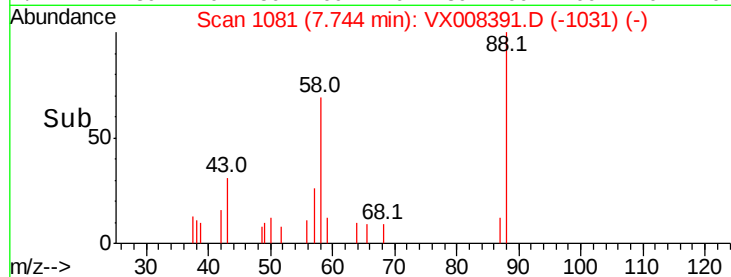
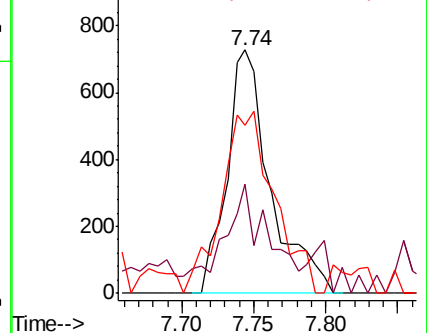
58 90.9 57.8 86.6#



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: 48.684 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX008391.D

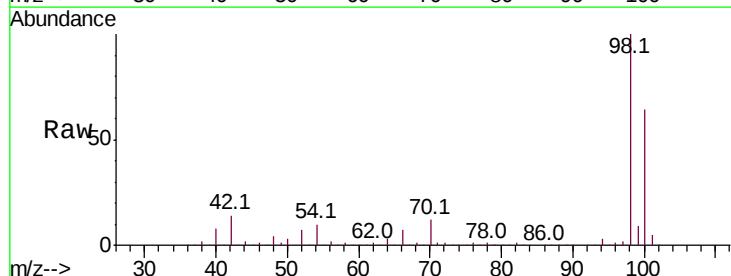
Acq: 24 Mar 2019 14:55

Tgt Ion: 98 Resp: 483516

Ion Ratio Lower Upper

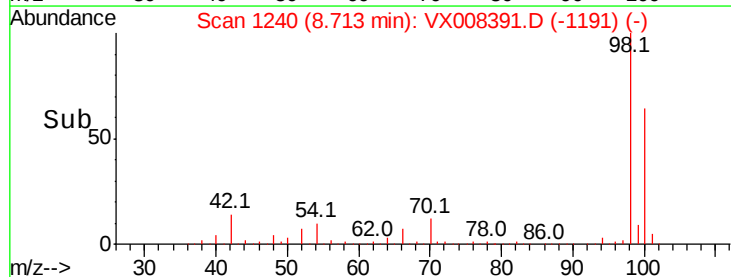
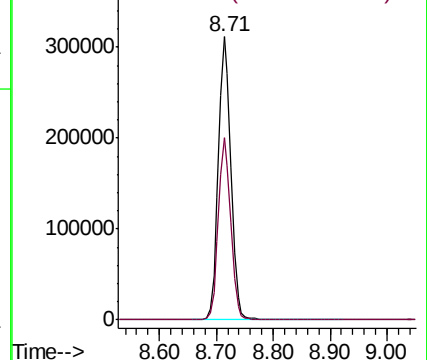
98 100

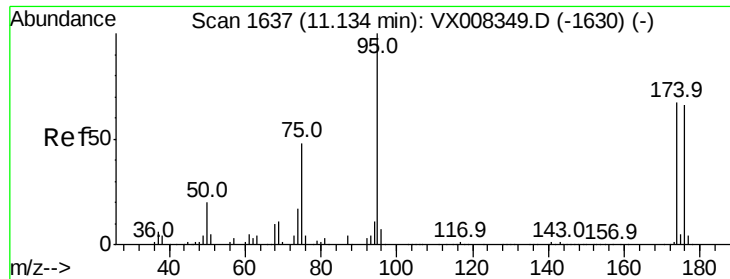
100 63.4 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

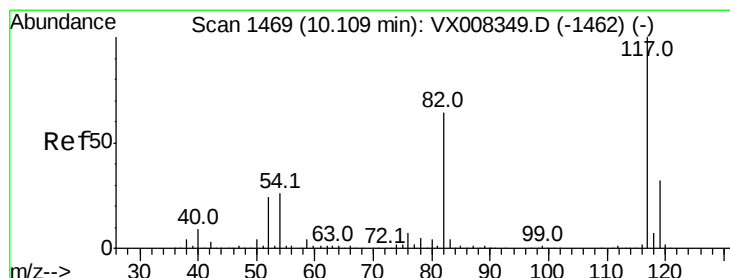
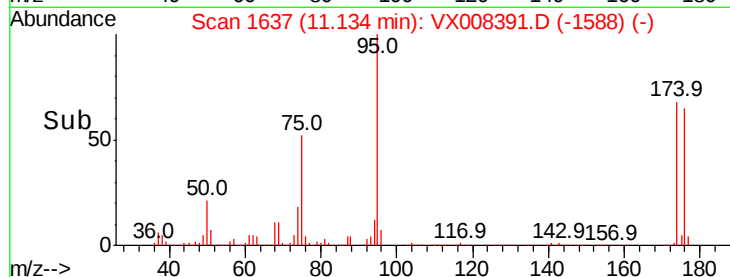
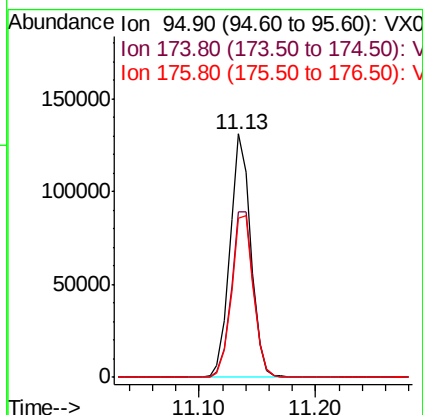
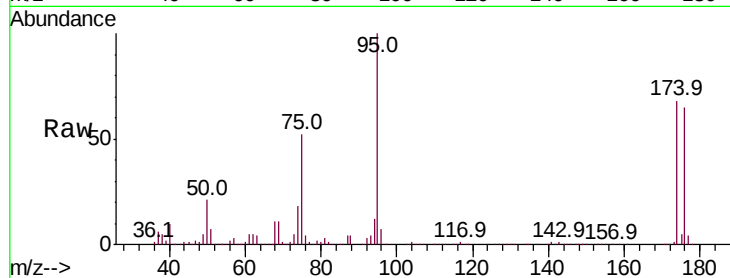




#62
4-Bromofluorobenzene
Concen: 44.698 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX008391.D
Acq: 24 Mar 2019 14:55

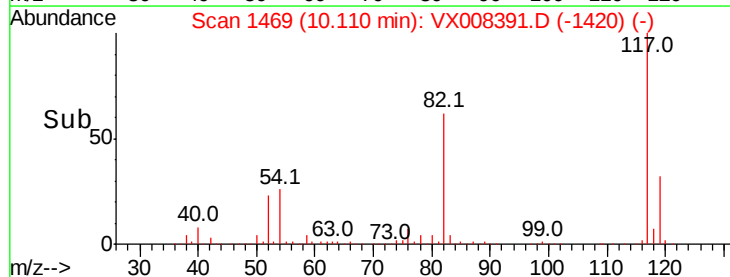
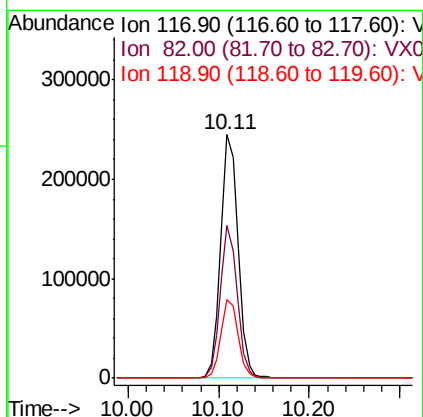
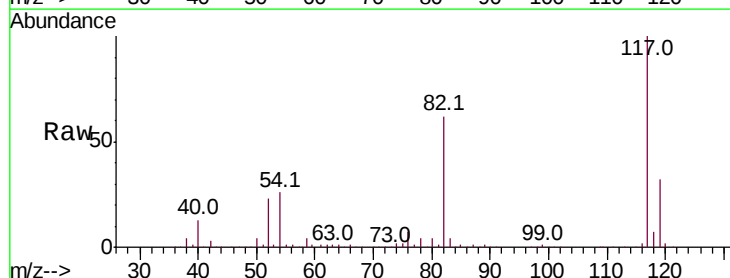
Instrument :
MSVOA_X
ClientSampleId :
M4-T1-UV(PRE)

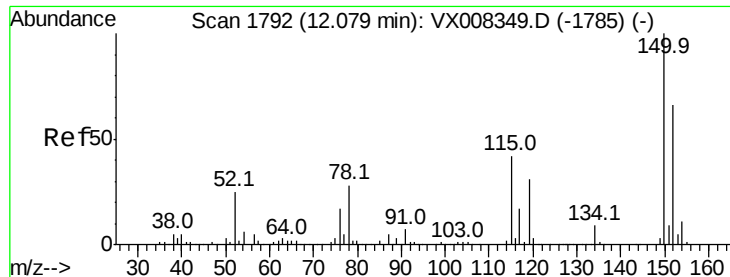
Tot Ion: 95 Resp: 162993
Ion Ratio Lower Upper
95 100
174 72.8 0.0 182.8
176 69.9 0.0 178.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX008391.D
Acq: 24 Mar 2019 14:55

Tgt Ion: 117 Resp: 330145
Ion Ratio Lower Upper
117 100
82 62.5 44.3 66.5
119 32.4 25.3 37.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX008391.D

Acq: 24 Mar 2019 14:55

Instrument :

MSVOA_X

ClientSampleId :

M4-T1-UV(PRE)

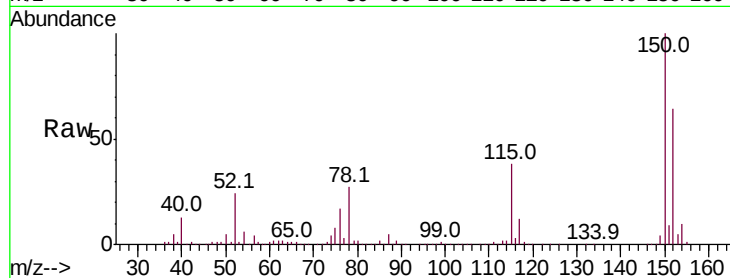
Tot Ion:152 Resp: 135078

Ion Ratio Lower Upper

152 100

115 61.7 38.6 115.7

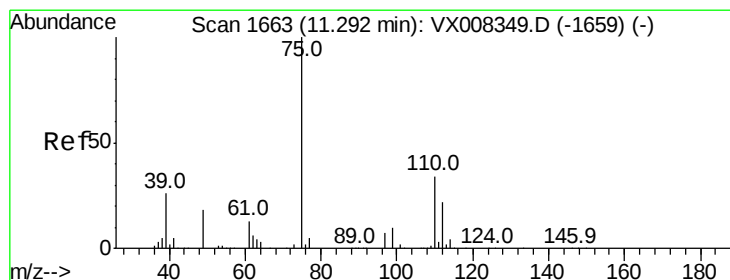
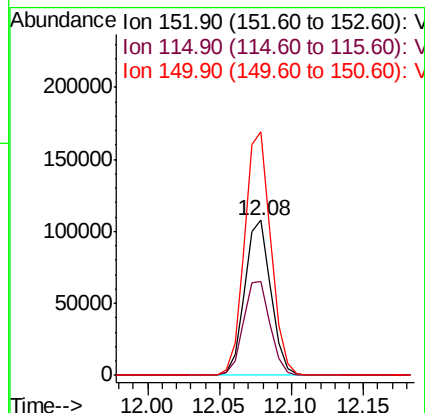
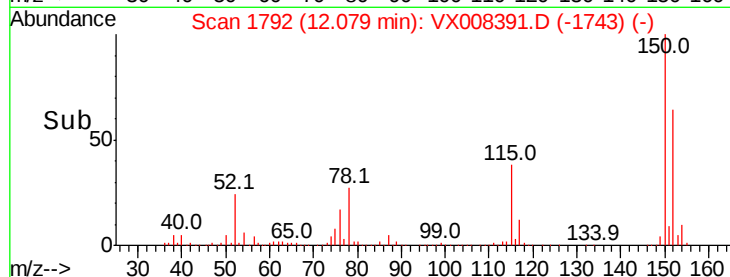
150 158.1 0.0 348.4



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



#76

1,2,3-Trichloropropane

Concen: 23.886 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008391.D

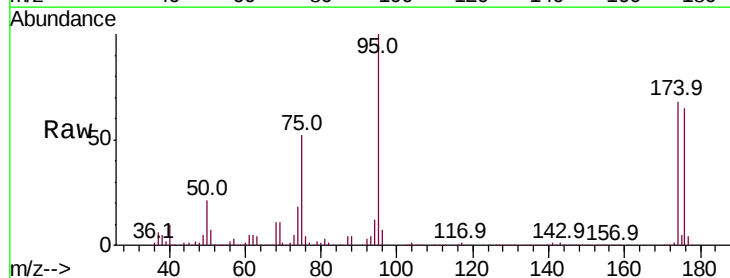
Acq: 24 Mar 2019 14:55

Tgt Ion: 75 Resp: 84452

Ion Ratio Lower Upper

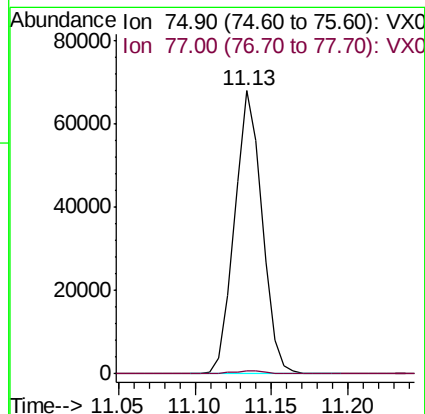
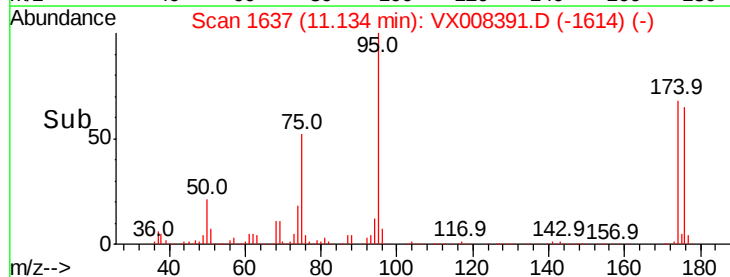
75 100

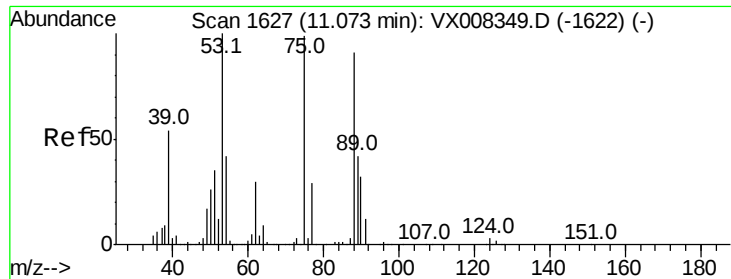
77 1.4 18.9 56.7#



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: 68.068 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008391.D

Acq: 24 Mar 2019 14:55

Instrument :

MSVOA_X

ClientSampleId :

M4-T1-UV(PRE)

Tot Ion: 75 Resp: 84452

Ion Ratio Lower Upper

75 100

53 0.3 76.1 114.1#

89 0.0 36.3 54.5#

