

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032419\
 Data File : VX008388.D
 Acq On : 24 Mar 2019 13:45
 Operator : JC/SP
 Sample : K1945-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

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

Quant Time: Mar 25 05:45:32 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	220893	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	381877	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	329919	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	136723	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	163584	48.55	ug/l	0.00
Spiked Amount			Recovery	=	97.10%	
35) Dibromofluoromethane	5.50	113	120176	48.57	ug/l	0.00
Spiked Amount			Recovery	=	97.14%	
50) Toluene-d8	8.71	98	483954	49.45	ug/l	0.00
Spiked Amount			Recovery	=	98.90%	
62) 4-Bromofluorobenzene	11.13	95	161582	44.97	ug/l	0.00
Spiked Amount			Recovery	=	89.94%	

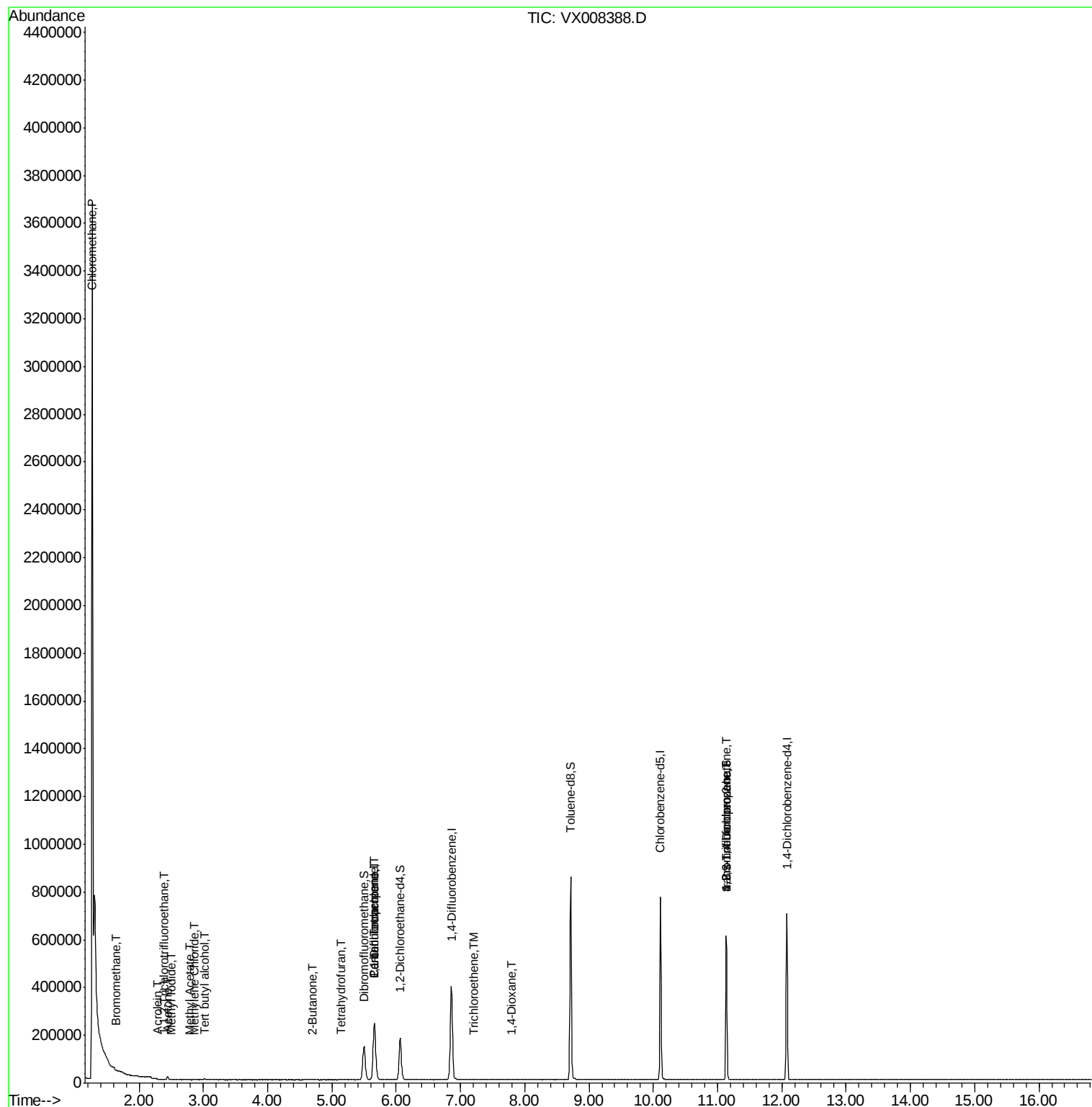
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.27	50	62767	16.932	ug/l #	43
5) Bromomethane	1.65	94	1821	0.799	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	2.39	101	551	0.226	ug/l #	82
10) Methyl Iodide	2.51	142	2208	0.714	ug/l	96
11) Tert butyl alcohol	3.01	59	2884	3.843	ug/l #	84
13) Acrolein	2.29	56	188	0.293	ug/l #	13
16) Acetone	2.44	43	13827	8.211	ug/l	99
18) Methyl Acetate	2.78	43	1104	0.262	ug/l #	76
20) Methylene Chloride	2.85	84	876	0.289	ug/l #	94
25) 2-Butanone	4.68	43	3006	1.084	ug/l	100
29) Tetrahydrofuran	5.14	42	2869	1.558	ug/l #	83
36) 1,1-Dichloropropene	5.66	75	19262	4.936	ug/l #	45
38) Carbon Tetrachloride	5.67	117	22309	6.669	ug/l #	17
44) Trichloroethene	7.21	130	662	0.240	ug/l	97
49) 1,4-Dioxane	7.79	88	19	0.227	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	83769	23.408	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	83769	66.706	ug/l #	12

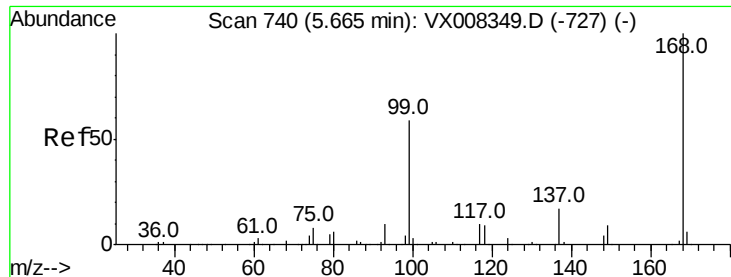
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX032419\
Data File : VX008388.D
Acq On : 24 Mar 2019 13:45
Operator : JC/SP
Sample : K1945-02
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 12 Sample Multiplier: 1

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

Quant Time: Mar 25 05:45:32 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X032319W.M
Quant Title : SW846 8260
QLast Update : Sat Mar 23 15:27:34 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: VX008388.D

Acq: 24 Mar 2019 13:45

Instrument :

MSVOA_X

ClientSampleId :

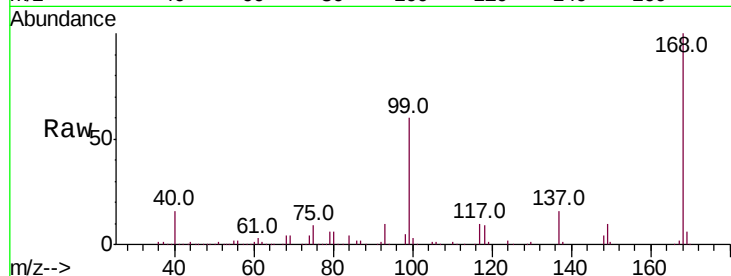
M4-T1-OZ(PRE)

Tot Ion:168 Resp: 220893

Ion Ratio Lower Upper

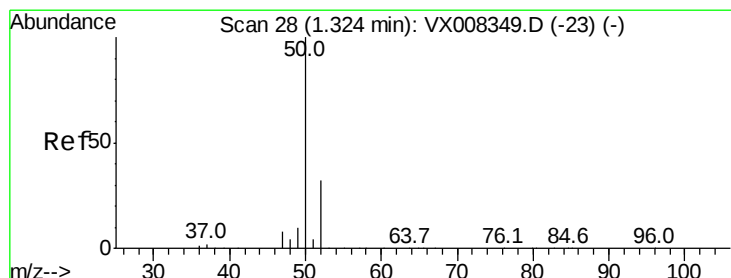
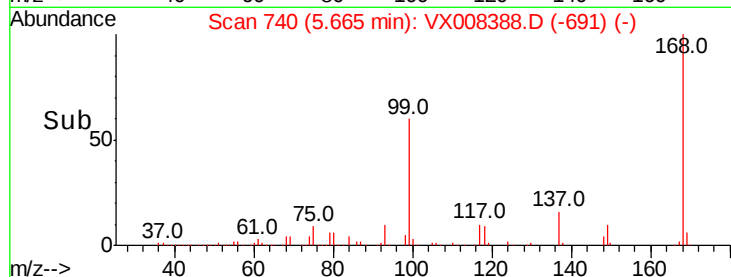
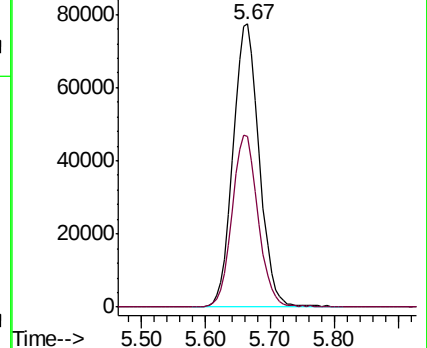
168 100

99 60.2 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: 16.932 ug/l

RT: 1.27 min Scan# 19

Delta R.T. -0.05 min

Lab File: VX008388.D

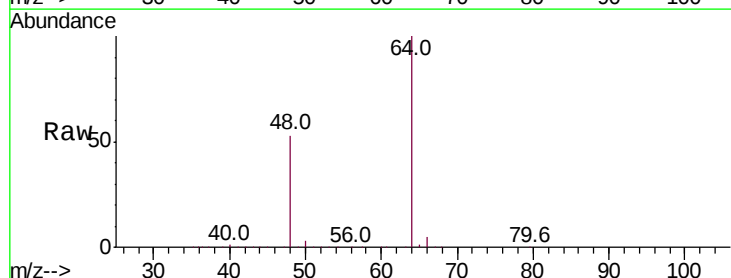
Acq: 24 Mar 2019 13:45

Tgt Ion: 50 Resp: 62767

Ion Ratio Lower Upper

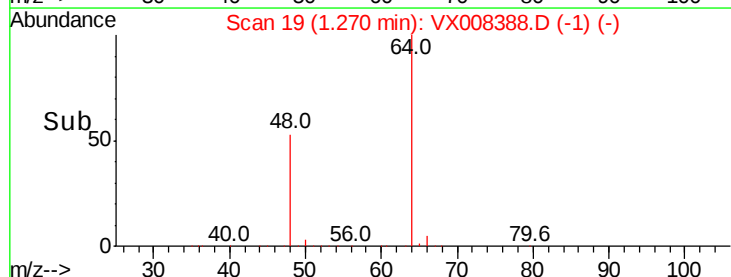
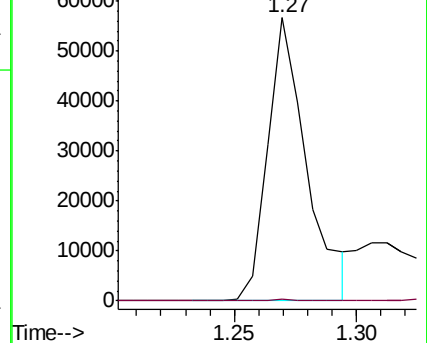
50 100

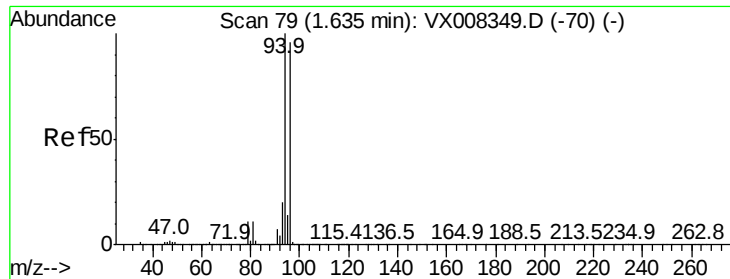
52 0.6 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.799 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX008388.D

Acq: 24 Mar 2019 13:45

Instrument :

MSVOA_X

ClientSampled :

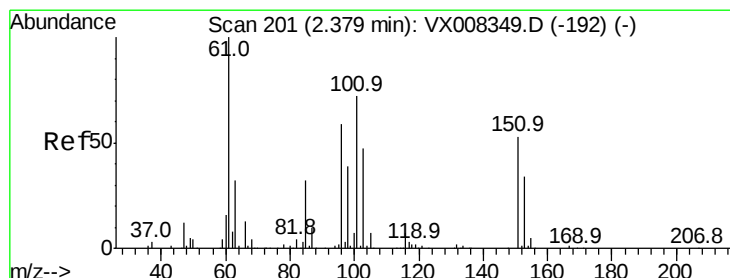
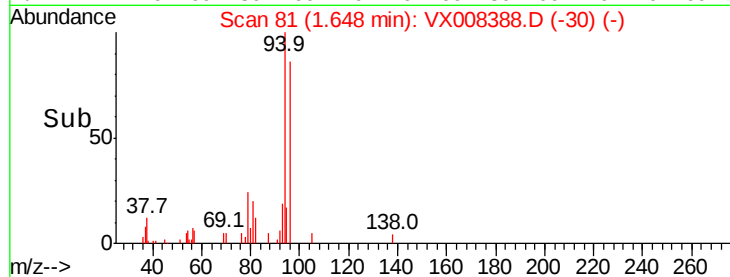
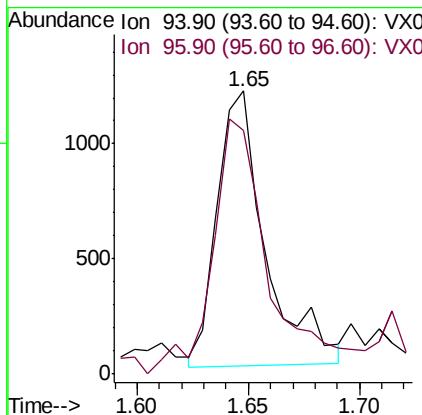
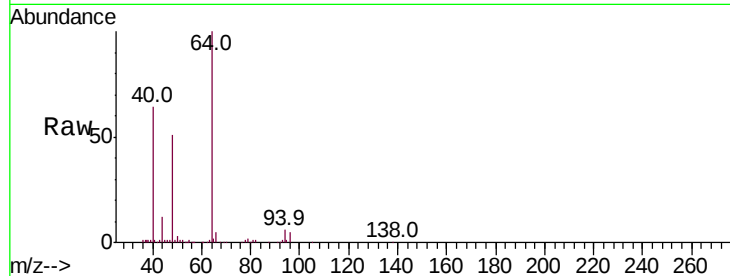
M4-T1-OZ(PRE)

Tot Ion: 94 Resp: 1821

Ion Ratio Lower Upper

94 100

96 85.2 75.5 113.3



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.226 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.01 min

Lab File: VX008388.D

Acq: 24 Mar 2019 13:45

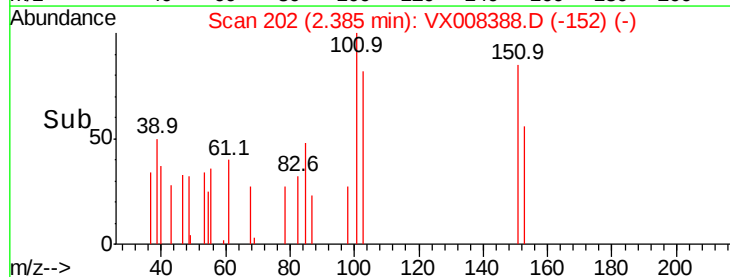
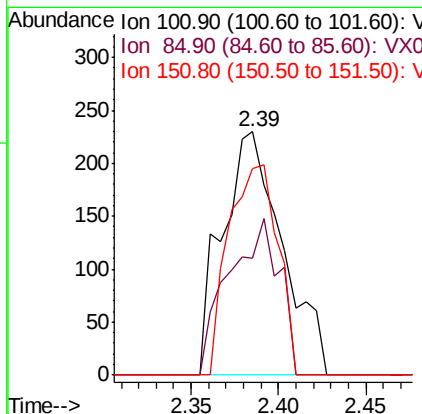
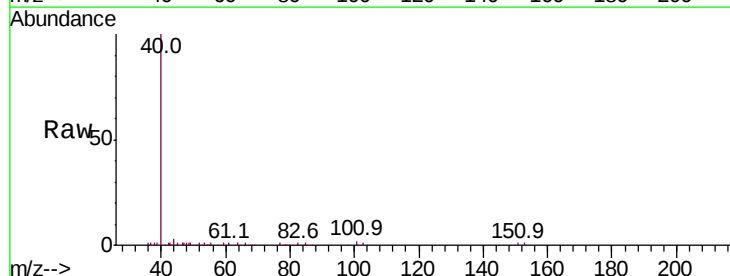
Tgt Ion: 101 Resp: 551

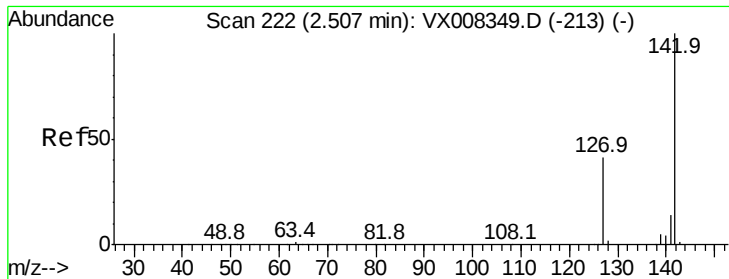
Ion Ratio Lower Upper

101 100

85 53.9 33.8 50.6#

151 70.4 69.1 103.7

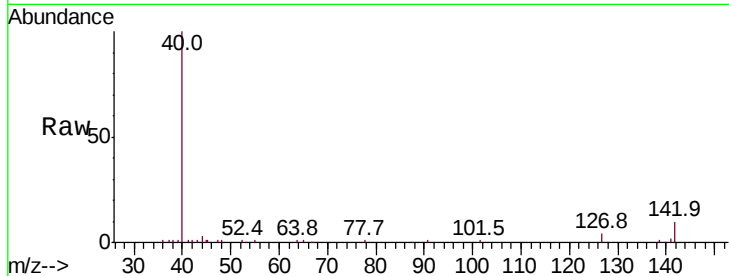




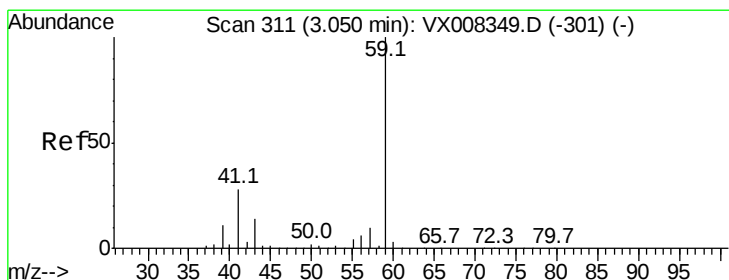
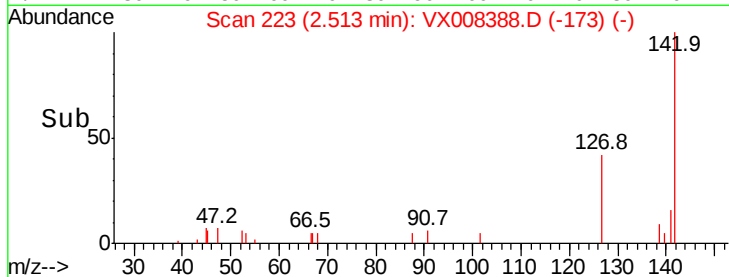
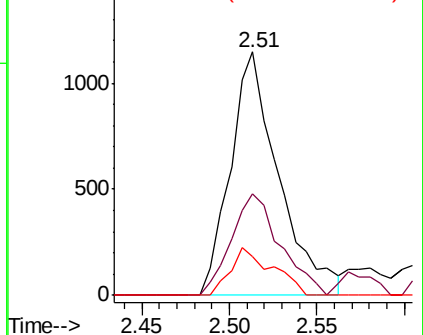
#10
Methvl Iodide
Concen: 0.714 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX008388.D
Acq: 24 Mar 2019 13:45

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

Tot Ion:142 Resp: 2208
Ion Ratio Lower Upper
142 100
127 42.2 32.1 48.1
141 16.8 11.4 17.2

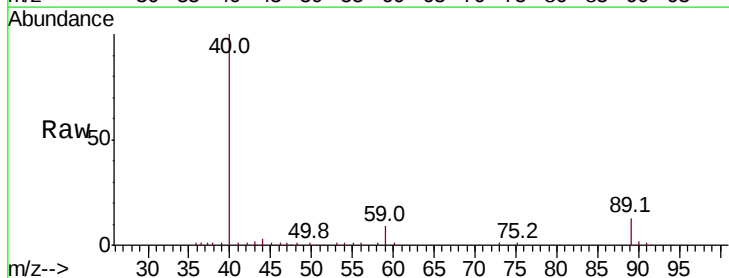


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

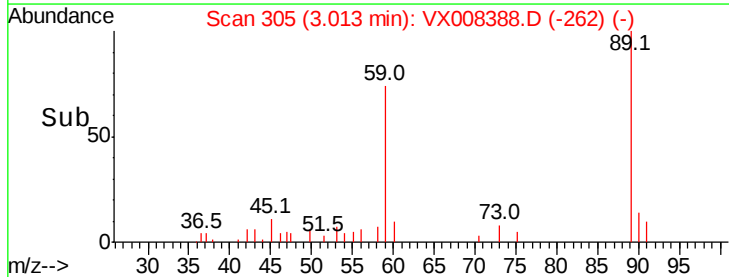
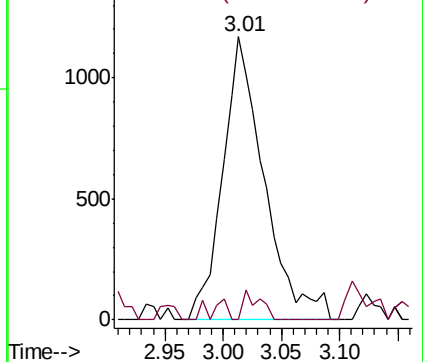


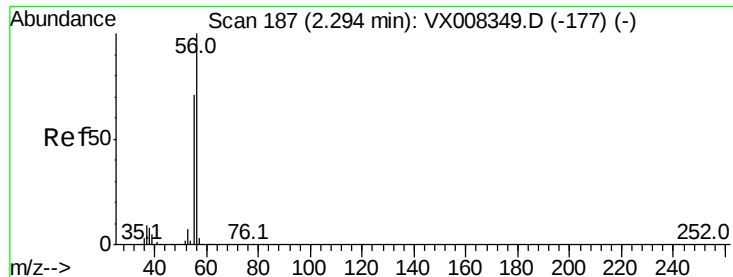
#11
Tert butyl alcohol
Concen: 3.843 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX008388.D
Acq: 24 Mar 2019 13:45

Tgt Ion: 59 Resp: 2884
Ion Ratio Lower Upper
59 100
57 4.3 8.2 12.2#



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





#13

Acrolein

Concen: 0.293 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX008388.D

Acq: 24 Mar 2019 13:45

Instrument :

MSVOA_X

ClientSampleId :

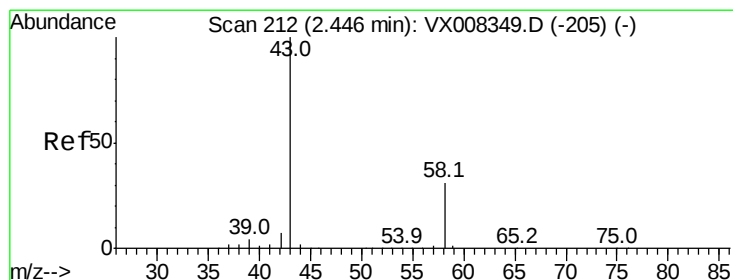
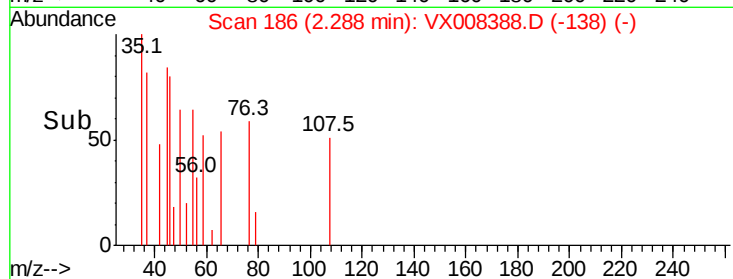
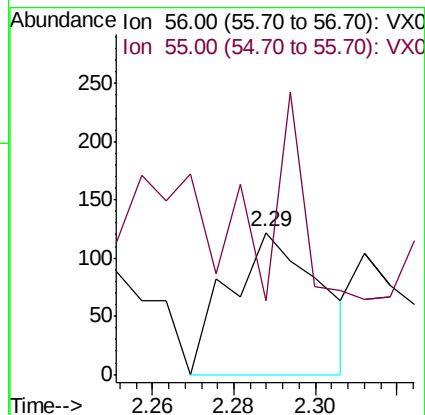
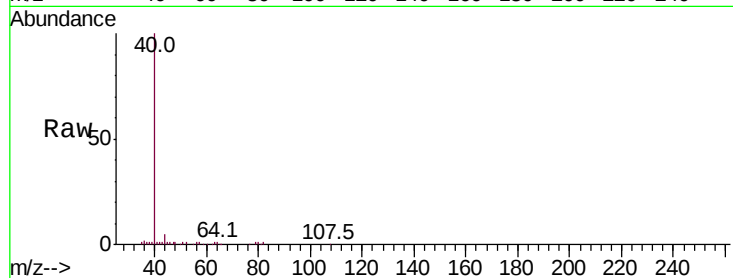
M4-T1-OZ(PRE)

Tot Ion: 56 Resp: 188

Ion Ratio Lower Upper

56 100

55 0.0 57.8 86.6#



#16

Acetone

Concen: 8.211 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX008388.D

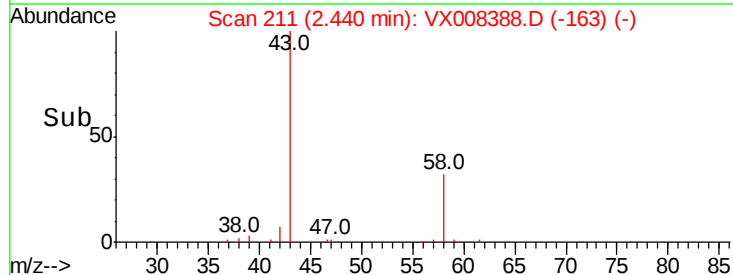
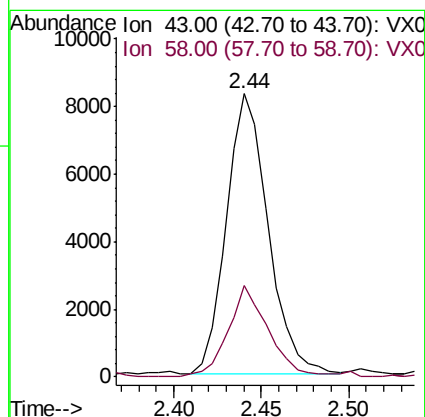
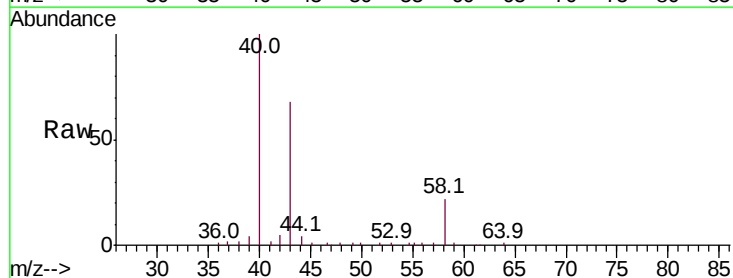
Acq: 24 Mar 2019 13:45

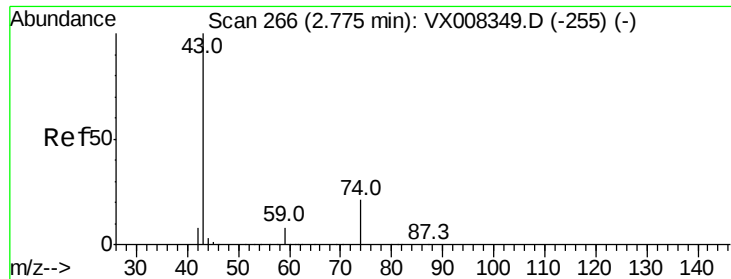
Tgt Ion: 43 Resp: 13827

Ion Ratio Lower Upper

43 100

58 31.6 25.5 38.3

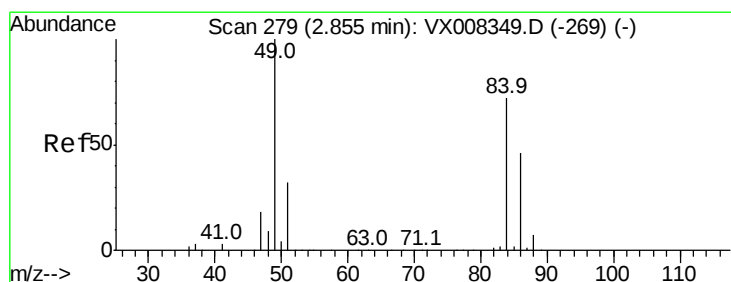
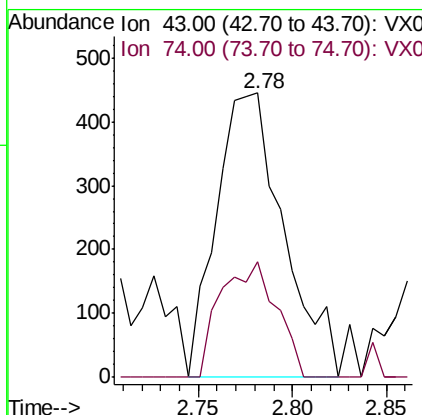
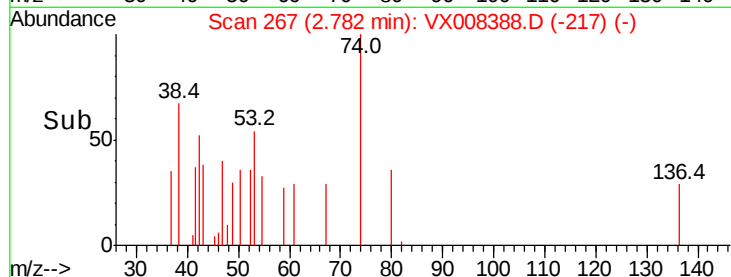
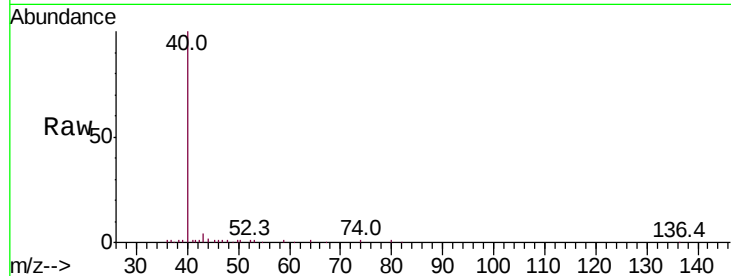




#18
Methyl Acetate
Concen: 0.262 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX008388.D
Acq: 24 Mar 2019 13:45

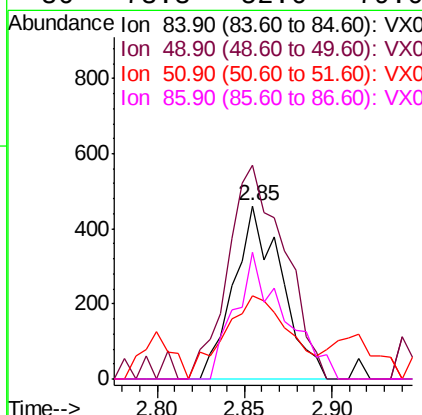
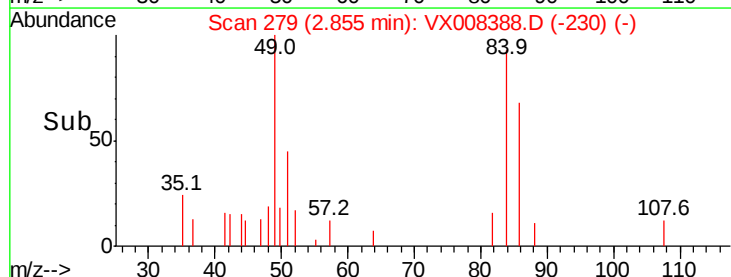
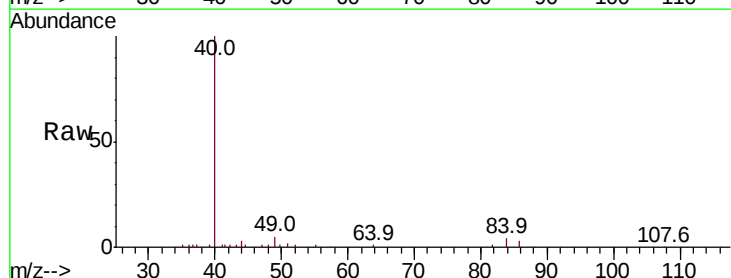
Instrument :
MSVOA_X
ClientSampleId :
M4-T1-OZ(PRE)

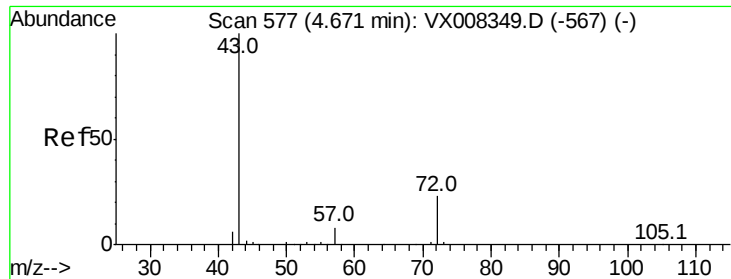
Tot Ion: 43 Resp: 1104
Ion Ratio Lower Upper
43 100
74 33.5 17.8 26.6#



#20
Methylene Chloride
Concen: 0.289 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX008388.D
Acq: 24 Mar 2019 13:45

Tgt Ion: 84 Resp: 876
Ion Ratio Lower Upper
84 100
49 123.4 99.3 148.9
51 47.9 31.3 46.9#
86 73.3 52.6 79.0





#25

2-Butanone

Concen: 1.084 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.01 min

Lab File: VX008388.D

Acq: 24 Mar 2019 13:45

Instrument :

MSVOA_X

ClientSampleId :

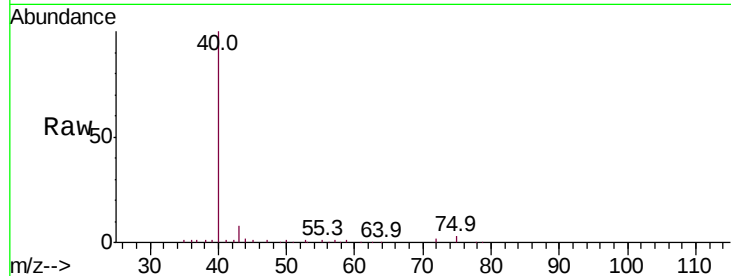
M4-T1-OZ(PRE)

Tot Ion: 43 Resp: 3006

Ion Ratio Lower Upper

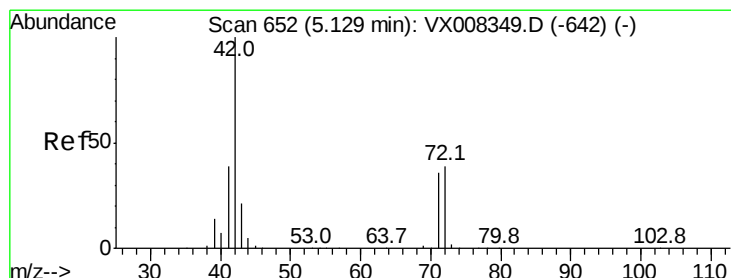
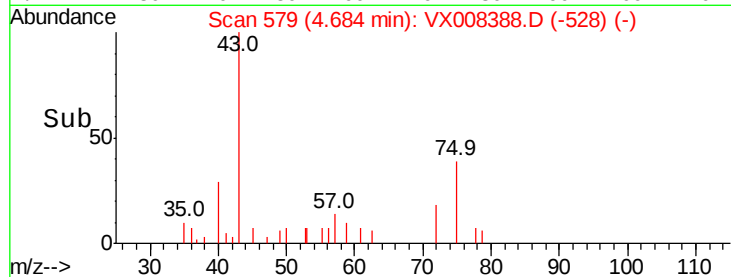
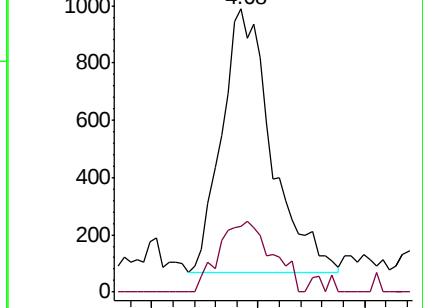
43 100

72 24.9 19.9 29.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 1.558 ug/l

RT: 5.14 min Scan# 654

Delta R.T. 0.01 min

Lab File: VX008388.D

Acq: 24 Mar 2019 13:45

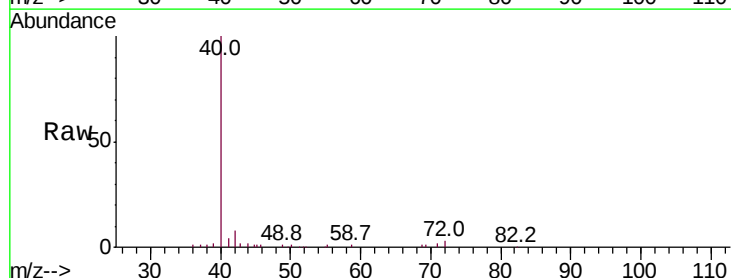
Tgt Ion: 42 Resp: 2869

Ion Ratio Lower Upper

42 100

72 43.7 33.8 50.6

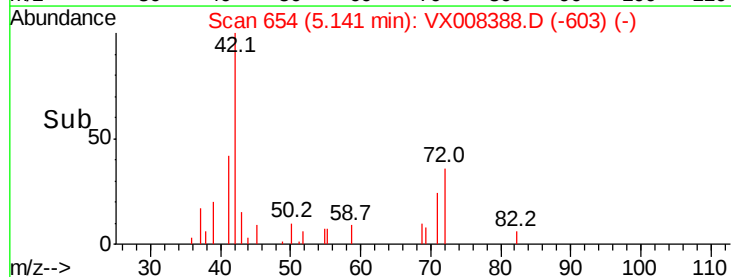
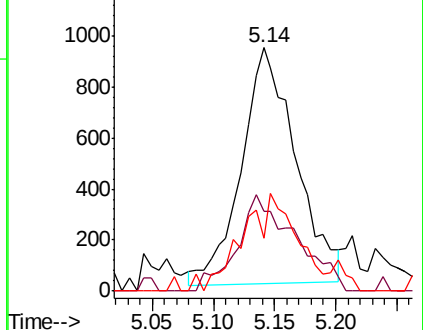
71 18.8 31.5 47.3#

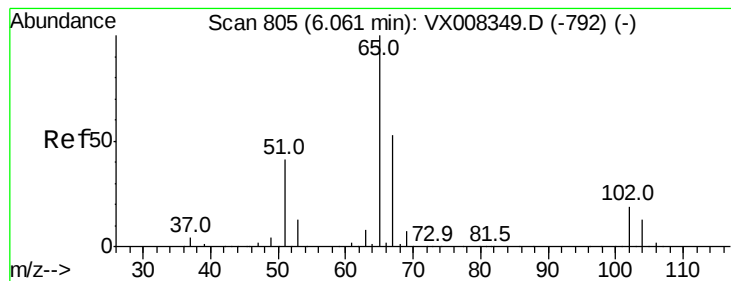


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 48.555 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX008388.D

Acq: 24 Mar 2019 13:45

Instrument :

MSVOA_X

ClientSampleId :

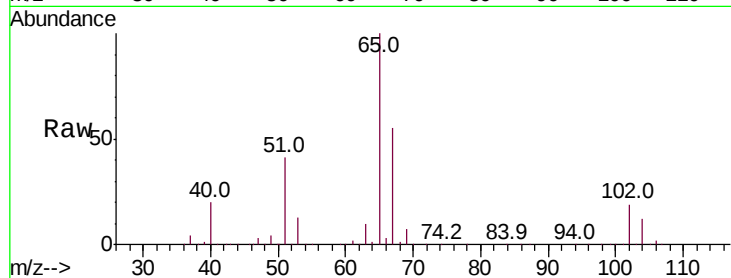
M4-T1-OZ(PRE)

Tot Ion: 65 Resp: 163584

Ion Ratio Lower Upper

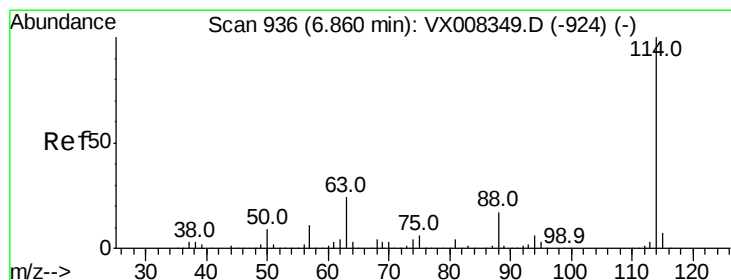
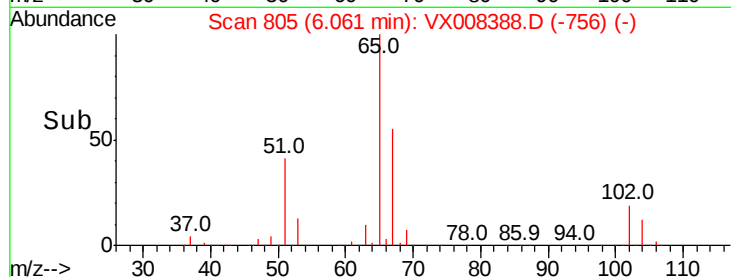
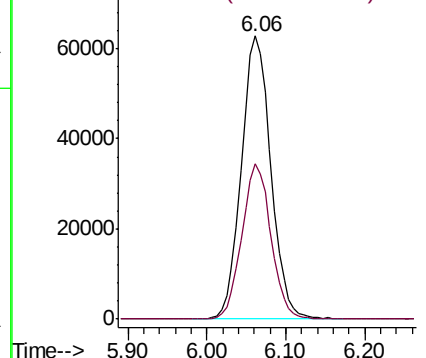
65 100

67 53.9 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: VX008388.D

Acq: 24 Mar 2019 13:45

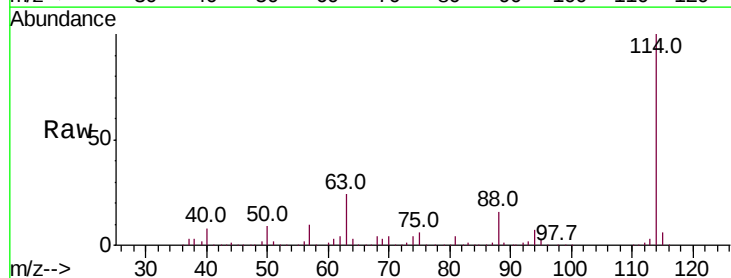
Tgt Ion: 114 Resp: 381877

Ion Ratio Lower Upper

114 100

63 23.7 0.0 39.8

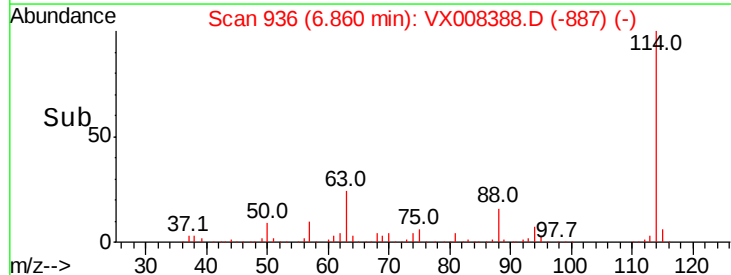
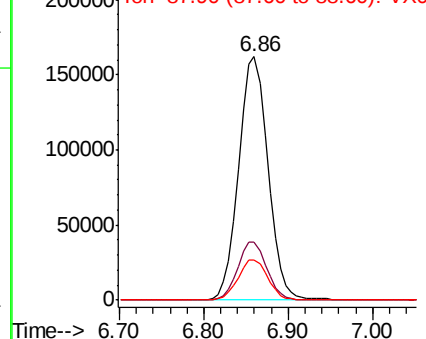
88 16.4 0.0 31.4

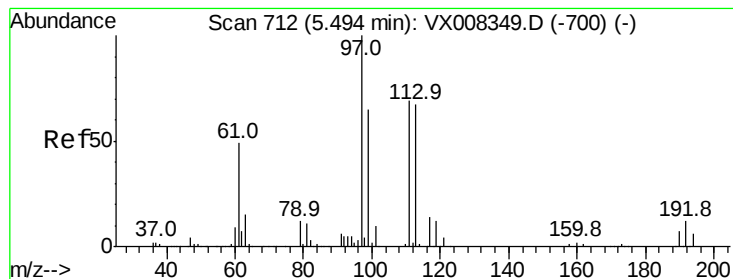


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.572 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX008388.D

Acq: 24 Mar 2019 13:45

Instrument :

MSVOA_X

ClientSampleId :

M4-T1-OZ(PRE)

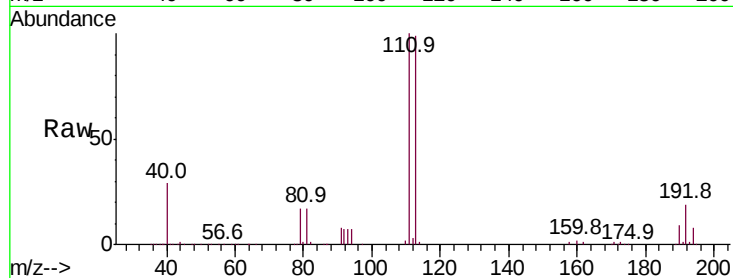
Tot Ion:113 Resp: 120176

Ion Ratio Lower Upper

113 100

111 102.2 81.4 122.0

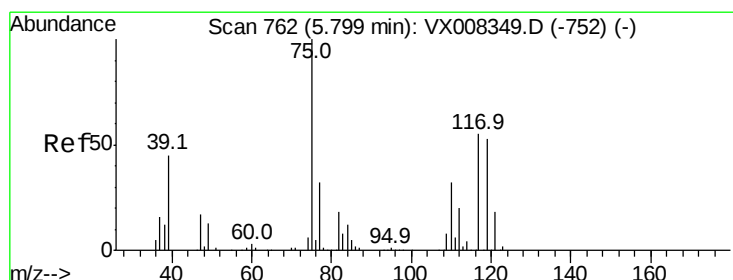
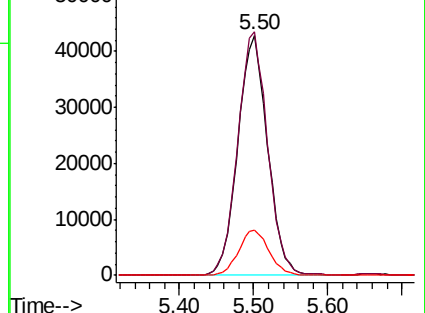
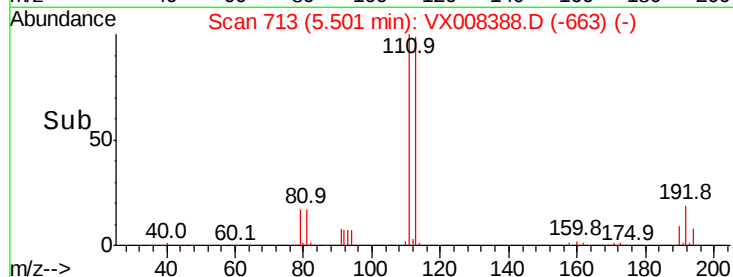
192 19.3 19.4 29.0#



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: 4.936 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008388.D

Acq: 24 Mar 2019 13:45

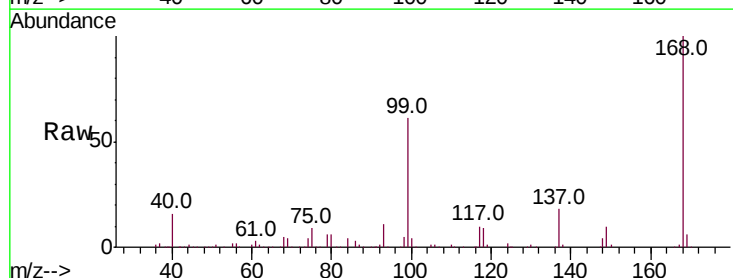
Tgt Ion: 75 Resp: 19262

Ion Ratio Lower Upper

75 100

110 4.3 18.4 55.0#

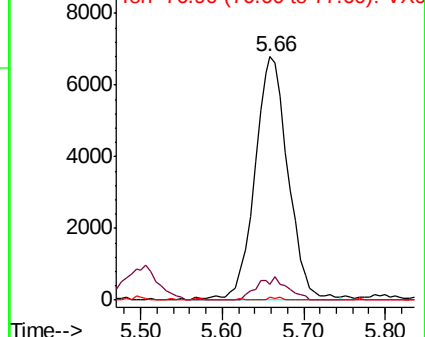
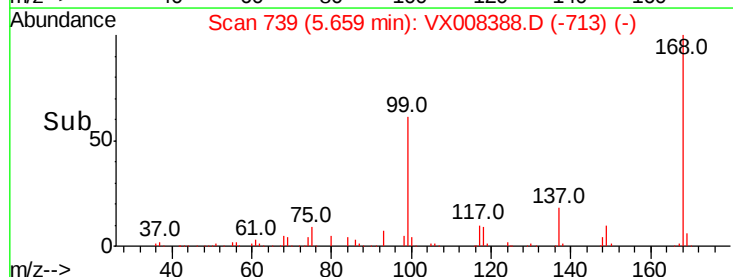
77 0.4 25.0 37.4#

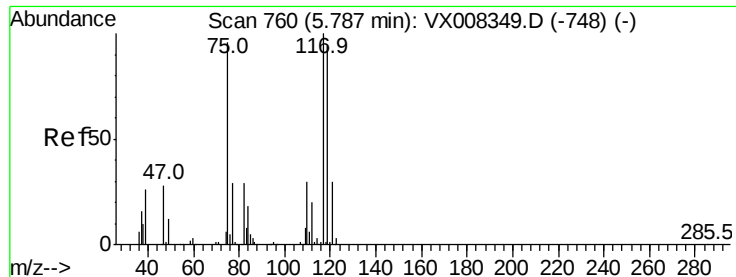


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.669 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX008388.D

Acq: 24 Mar 2019 13:45

Instrument :

MSVOA_X

ClientSampleId :

M4-T1-OZ(PRE)

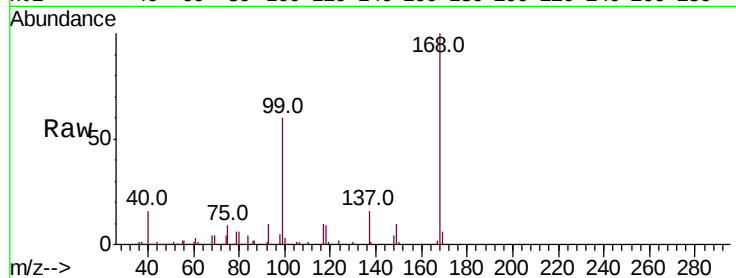
Tot Ion:117 Resp: 22309

Ion Ratio Lower Upper

117 100

119 6.0 76.2 114.2#

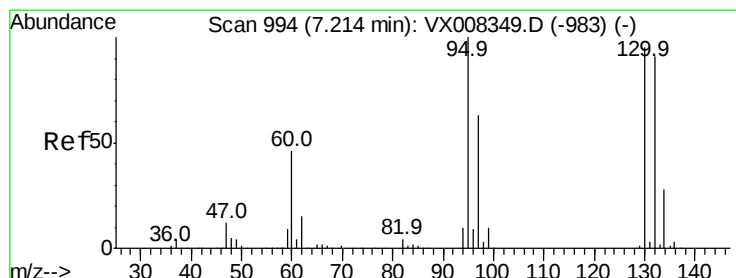
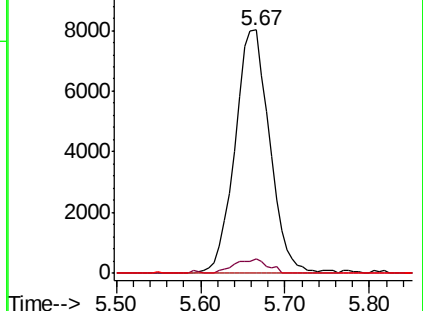
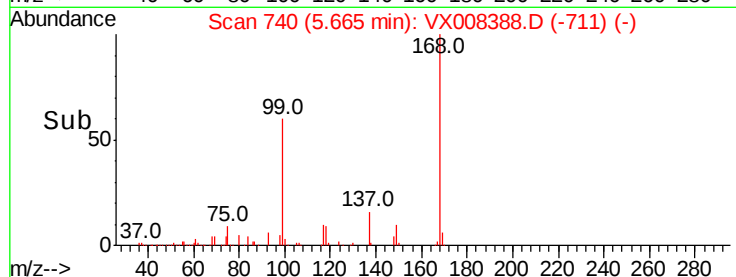
121 0.0 24.6 36.8#



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: 0.240 ug/l

RT: 7.21 min Scan# 993

Delta R.T. -0.01 min

Lab File: VX008388.D

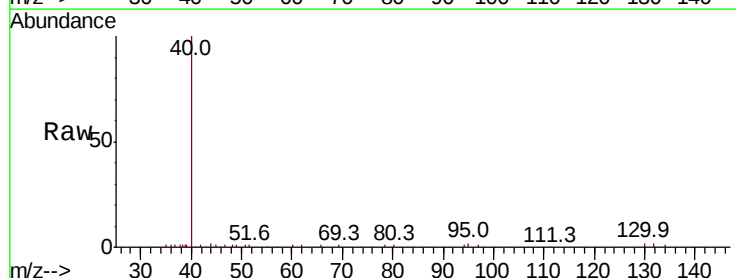
Acq: 24 Mar 2019 13:45

Tgt Ion:130 Resp: 662

Ion Ratio Lower Upper

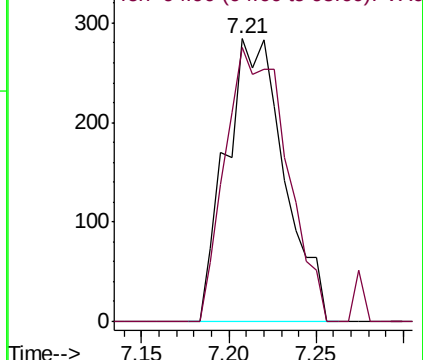
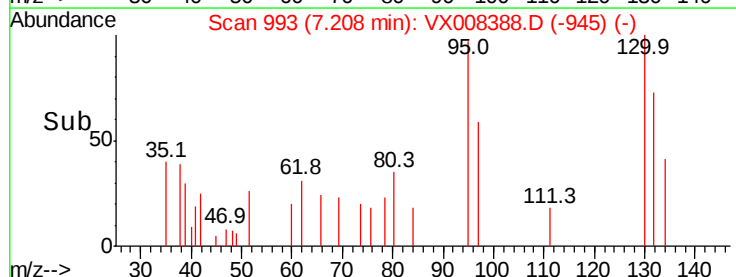
130 100

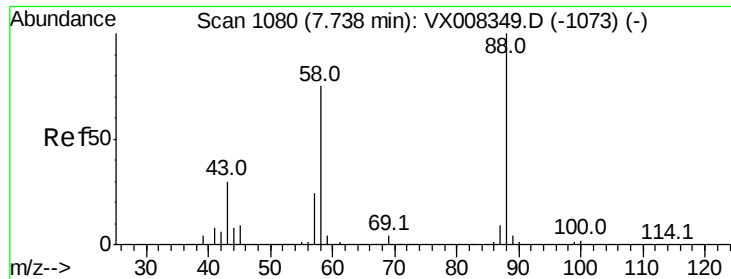
95 97.2 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 0.227 ug/l

RT: 7.79 min Scan# 1089

Delta R.T. 0.05 min

Lab File: VX008388.D

Acq: 24 Mar 2019 13:45

Instrument :

MSVOA_X

ClientSampleId :

M4-T1-OZ(PRE)

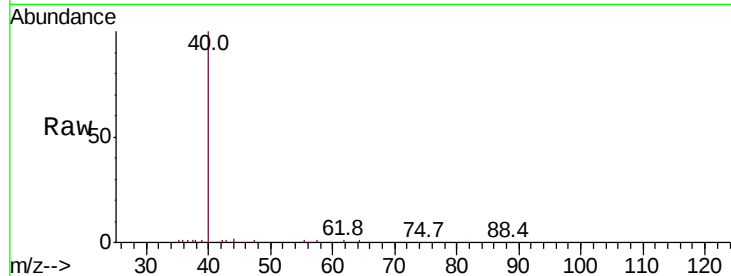
Tot Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 273.7 25.1 37.7#

58 121.1 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

200

150

100

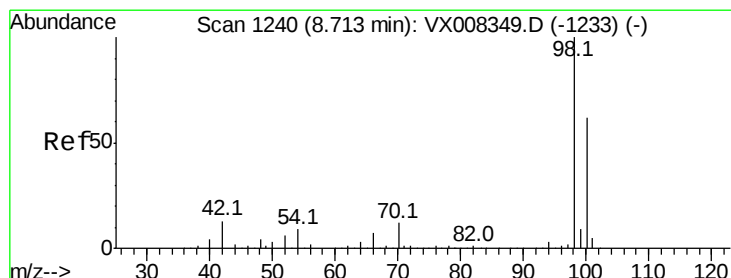
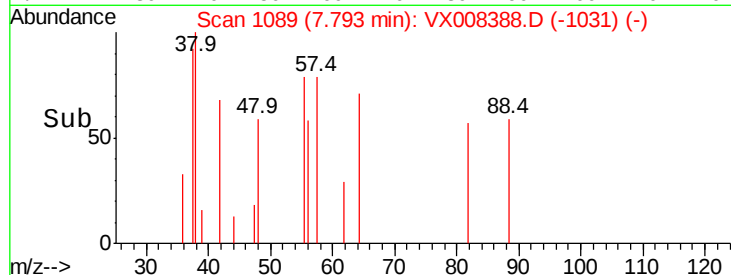
50

0

7.78 7.79 7.80

7.79

Time-->



#50

Toluene-d8

Concen: 49.454 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX008388.D

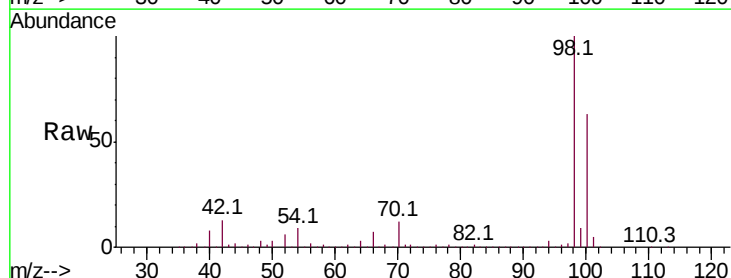
Acq: 24 Mar 2019 13:45

Tgt Ion: 98 Resp: 483954

Ion Ratio Lower Upper

98 100

100 63.7 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

300000

200000

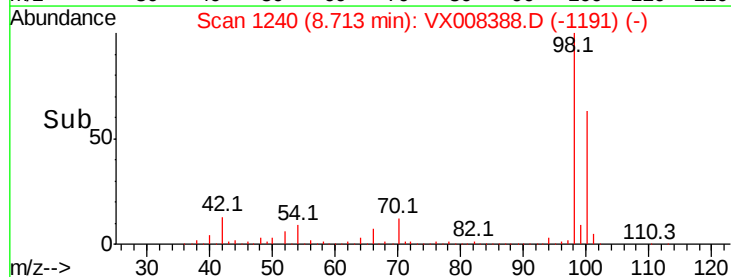
100000

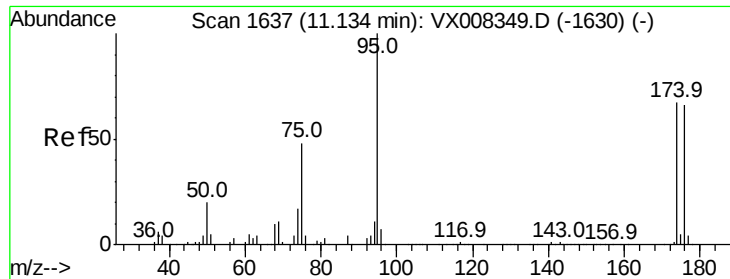
0

8.60 8.70 8.80 8.90

8.71

Time-->





#62

4-Bromofluorobenzene

Concen: 44.971 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX008388.D

Acq: 24 Mar 2019 13:45

Instrument :

MSVOA_X

ClientSampleId :

M4-T1-OZ(PRE)

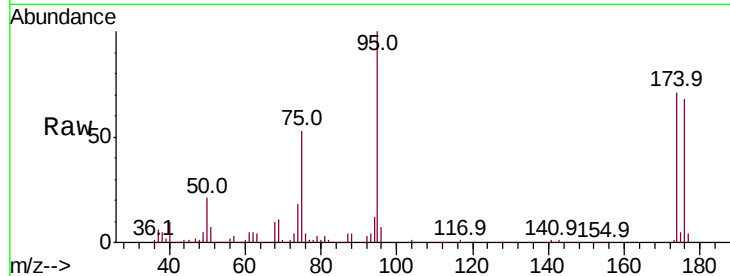
Tot Ion: 95 Resp: 161582

Ion Ratio Lower Upper

95 100

174 74.0 0.0 182.8

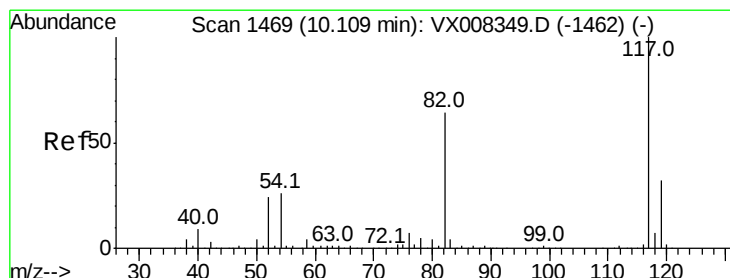
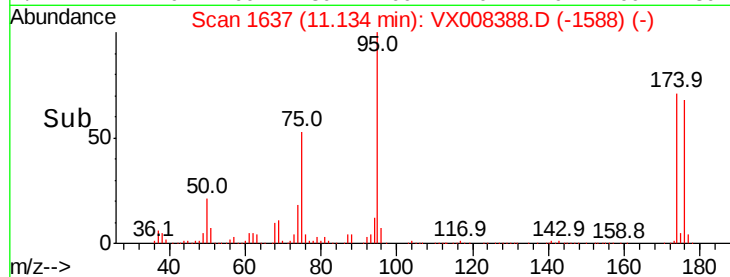
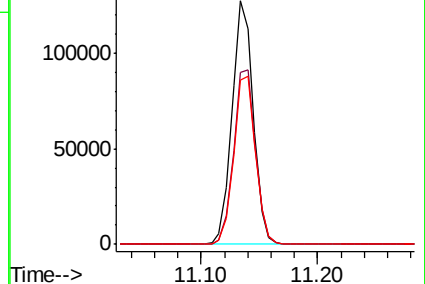
176 71.3 0.0 178.0



Abundance Ion 94.90 (94.60 to 95.60): VX008349.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX008349.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX008349.D (-1630) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX008388.D

Acq: 24 Mar 2019 13:45

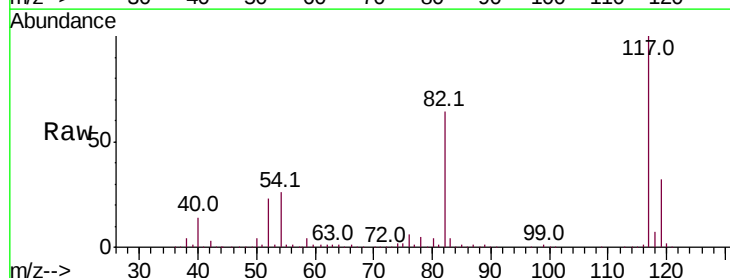
Tgt Ion: 117 Resp: 329919

Ion Ratio Lower Upper

117 100

82 63.6 44.3 66.5

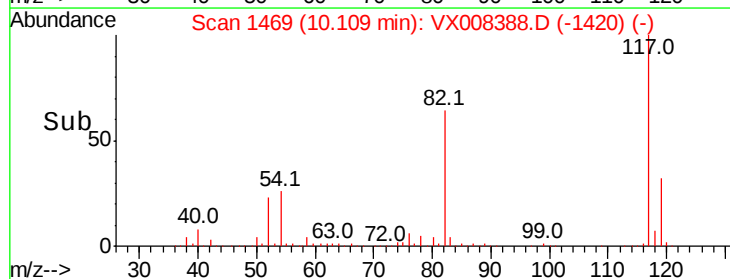
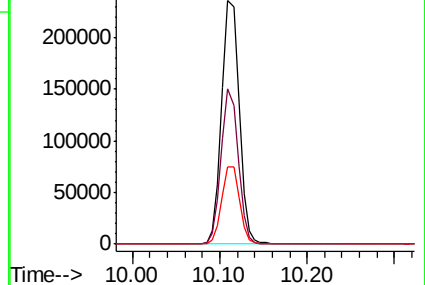
119 31.7 25.3 37.9

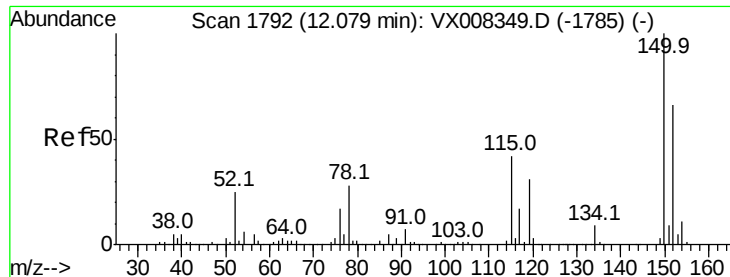


Abundance Ion 116.90 (116.60 to 117.60): VX008349.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX008349.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX008349.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: VX008388.D

Acq: 24 Mar 2019 13:45

Instrument :

MSVOA_X

ClientSampleId :

M4-T1-OZ(PRE)

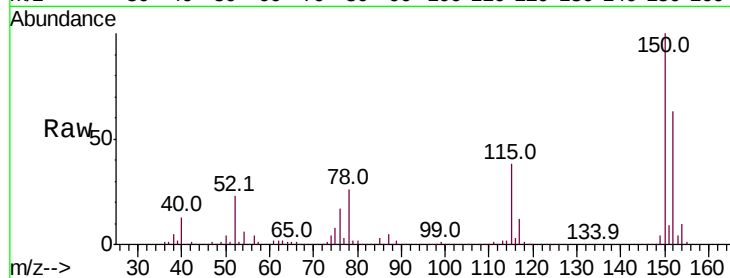
Tot Ion:152 Resp: 136723

Ion Ratio Lower Upper

152 100

115 62.0 38.6 115.7

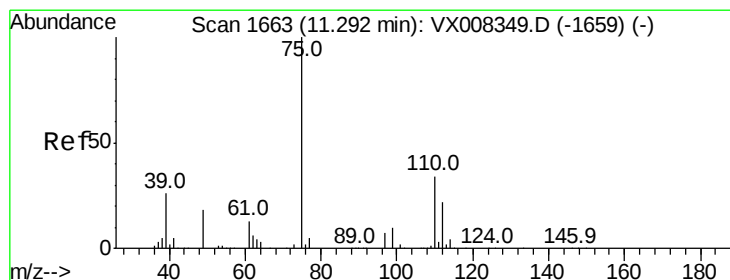
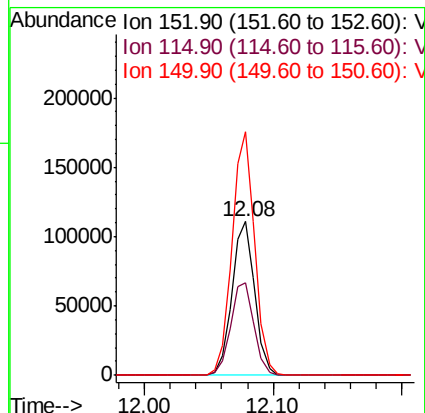
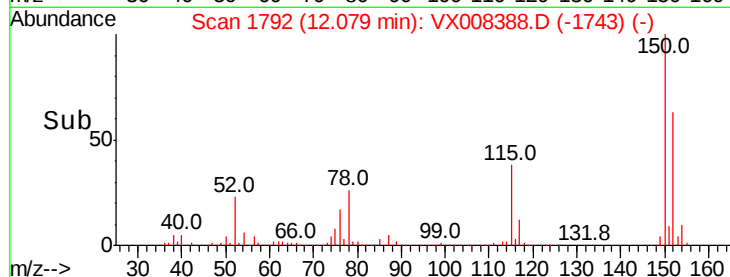
150 157.5 0.0 348.4



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: 23.408 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008388.D

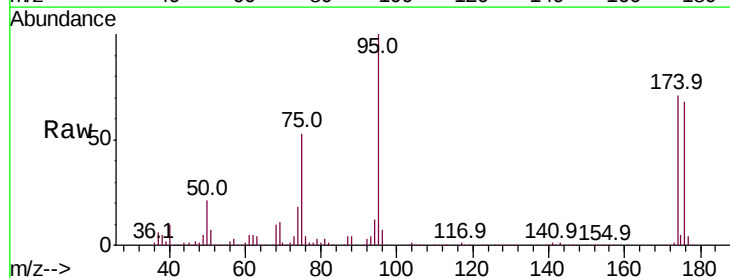
Acq: 24 Mar 2019 13:45

Tgt Ion: 75 Resp: 83769

Ion Ratio Lower Upper

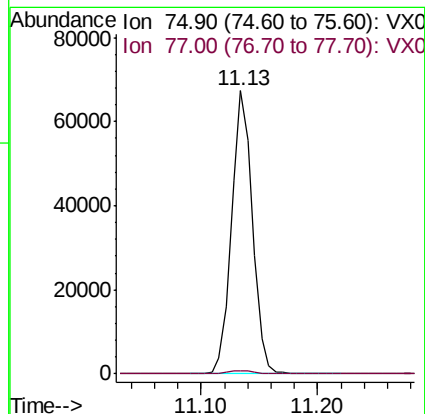
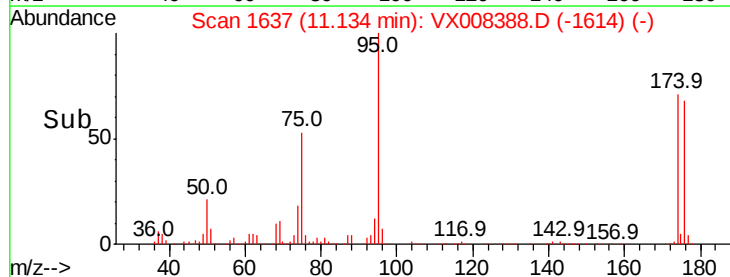
75 100

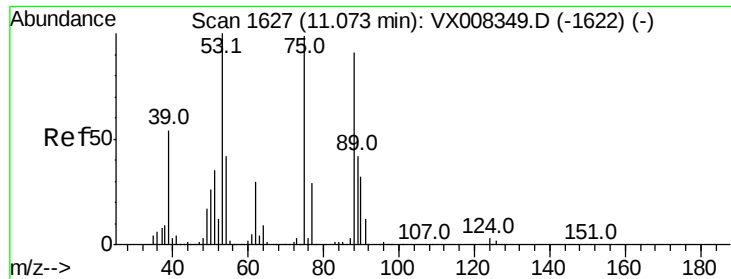
77 1.4 18.9 56.7#



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: 66.706 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008388.D

Acq: 24 Mar 2019 13:45

Instrument :

MSVOA_X

ClientSampleId :

M4-T1-OZ(PRE)

Tot Ion: 75 Resp: 83769

Ion Ratio Lower Upper

75 100

53 0.2 76.1 114.1#

89 0.0 36.3 54.5#

