

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX032419\
 Data File : VX008389.D
 Acq On : 24 Mar 2019 14:09
 Operator : JC/SP
 Sample : K1945-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 M4-T2-OZ(PRE)

Quant Time: Mar 25 05:45:46 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	5.66	168	222318	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	381219	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	329966	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	135900	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	164181	48.42	ug/l	0.00
Spiked Amount			Recovery	=	96.84%	
35) Dibromofluoromethane	5.50	113	119140	48.24	ug/l	0.00
Spiked Amount			Recovery	=	96.48%	
50) Toluene-d8	8.71	98	484705	49.62	ug/l	0.00
Spiked Amount			Recovery	=	99.24%	
62) 4-Bromofluorobenzene	11.13	95	163648	45.62	ug/l	0.00
Spiked Amount			Recovery	=	91.24%	

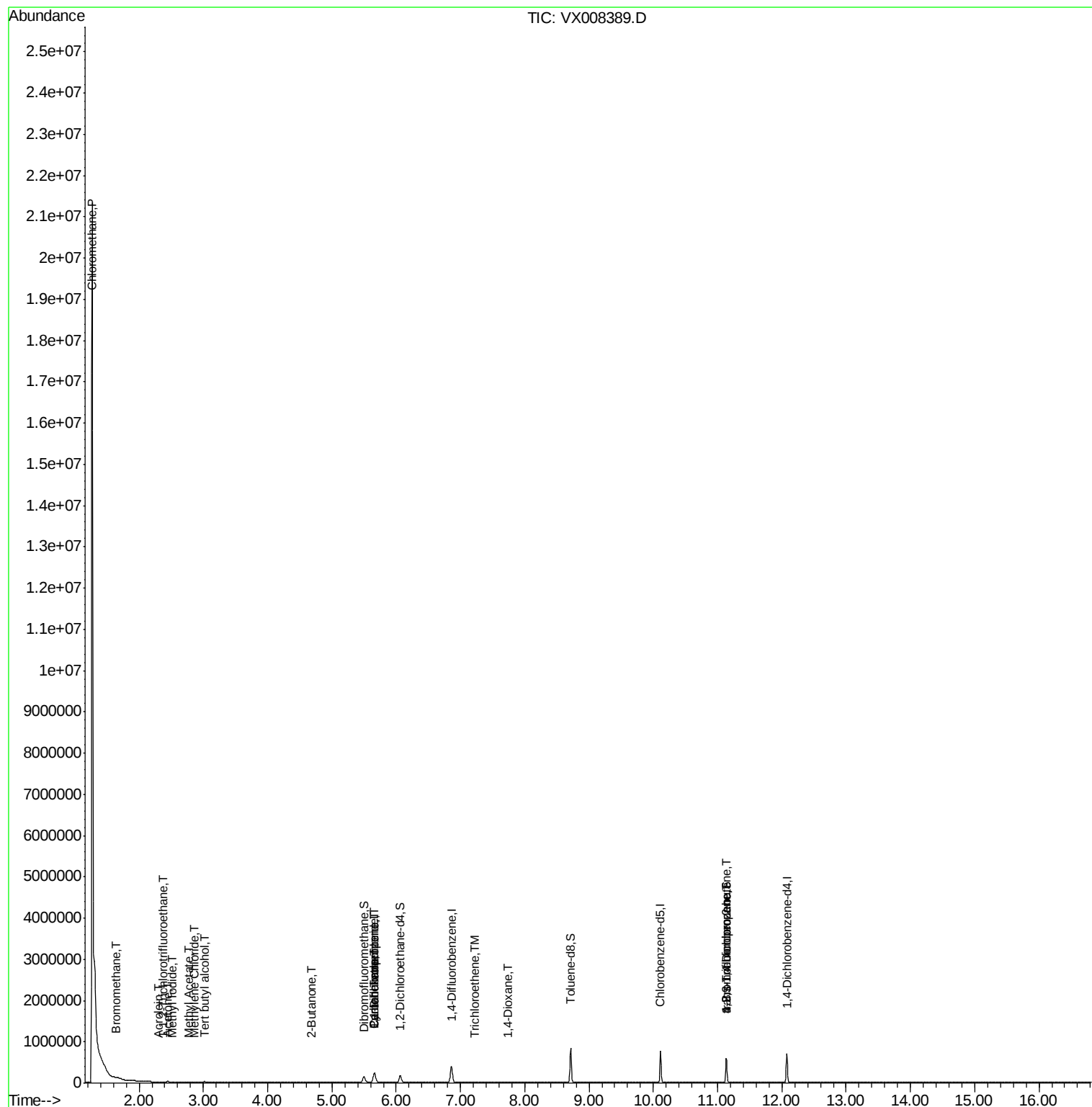
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.27	50	723598	193.950	ug/l #	42
5) Bromomethane	1.65	94	1258	0.549	ug/l	89
9) 1,1,2-Trichlorotrifluoroet	2.37	101	577	0.235	ug/l #	70
10) Methyl Iodide	2.51	142	975	0.313	ug/l	98
11) Tert butyl alcohol	3.02	59	14113	18.686	ug/l #	77
13) Acrolein	2.30	56	320	0.496	ug/l #	13
16) Acetone	2.44	43	35299	20.827	ug/l	98
18) Methyl Acetate	2.78	43	2691	0.634	ug/l	97
20) Methylene Chloride	2.86	84	797	0.261	ug/l #	85
25) 2-Butanone	4.68	43	6480	2.322	ug/l	98
31) Cyclohexane	5.66	56	5130	0.962	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	19327	4.961	ug/l #	48
38) Carbon Tetrachloride	5.66	117	22363	6.697	ug/l #	17
44) Trichloroethene	7.22	130	871	0.316	ug/l	76
49) 1,4-Dioxane	7.74	88	41	0.491	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	84357	23.715	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	84357	67.581	ug/l #	12

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX008389.D

Acq: 24 Mar 2019 14:09

Instrument :

MSVOA_X

ClientSampleId :

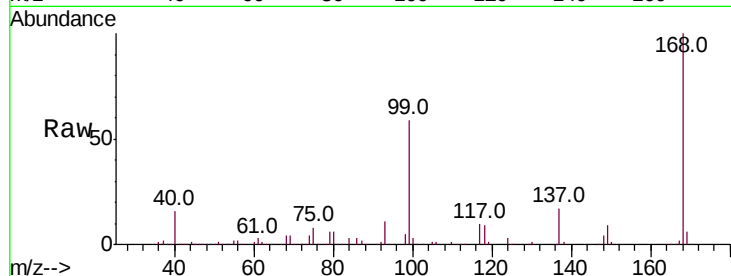
M4-T2-OZ(PRE)

Tot Ion:168 Resp: 222318

Ion Ratio Lower Upper

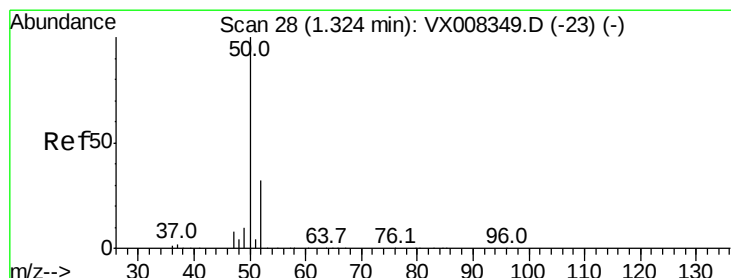
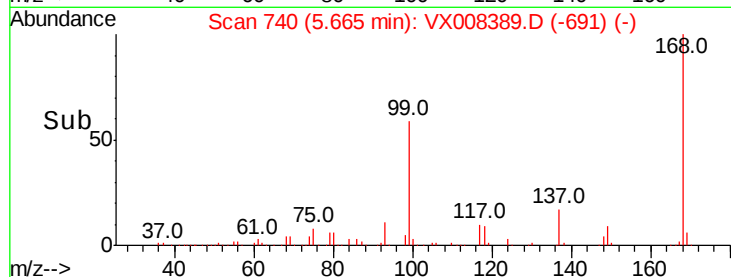
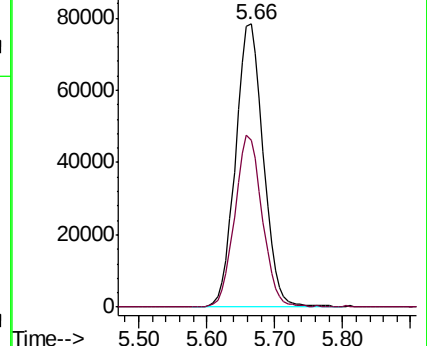
168 100

99 59.0 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: 193.950 ug/l

RT: 1.27 min Scan# 19

Delta R.T. -0.06 min

Lab File: VX008389.D

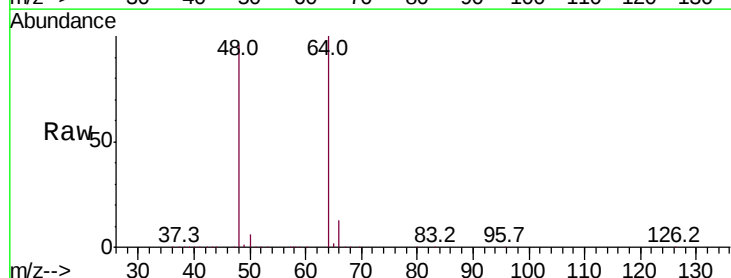
Acq: 24 Mar 2019 14:09

Tgt Ion: 50 Resp: 723598

Ion Ratio Lower Upper

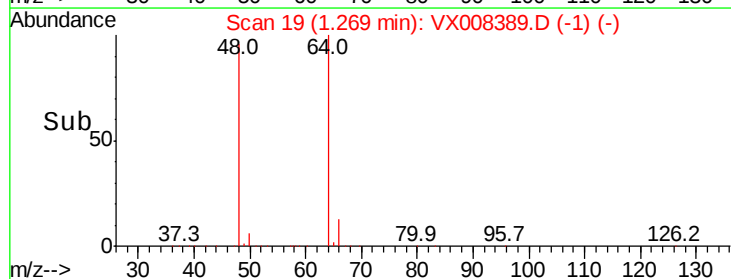
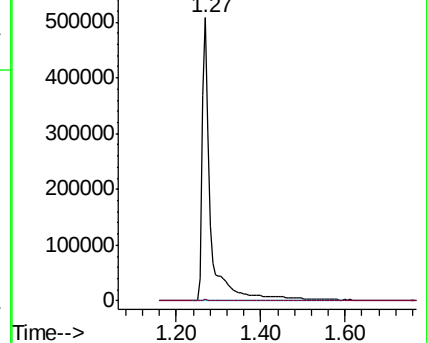
50 100

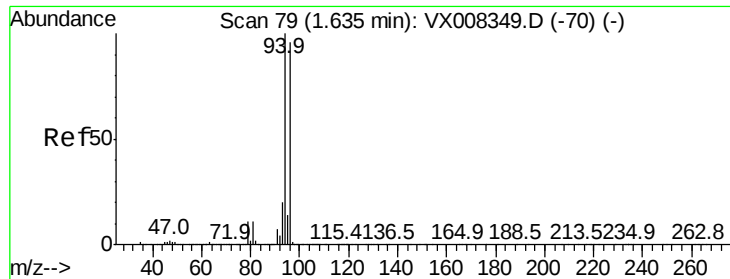
52 0.5 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.549 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX008389.D

Acq: 24 Mar 2019 14:09

Instrument :

MSVOA_X

ClientSampleId :

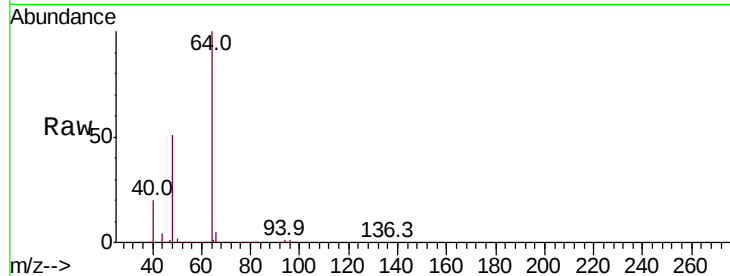
M4-T2-OZ(PRE)

Tot Ion: 94 Resp: 1258

Ion Ratio Lower Upper

94 100

96 104.9 75.5 113.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

1000

800

600

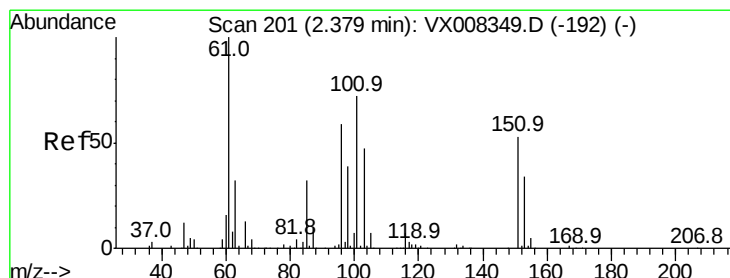
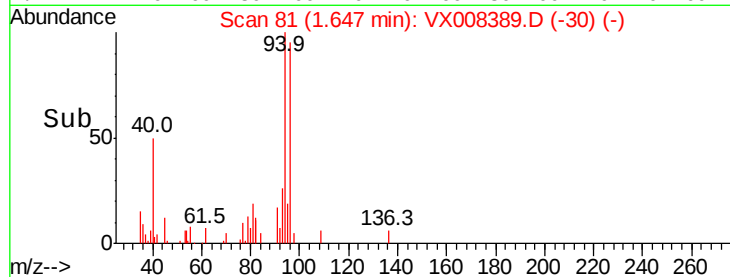
400

200

0

1.60 1.65 1.70

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.235 ug/l

RT: 2.37 min Scan# 200

Delta R.T. -0.01 min

Lab File: VX008389.D

Acq: 24 Mar 2019 14:09

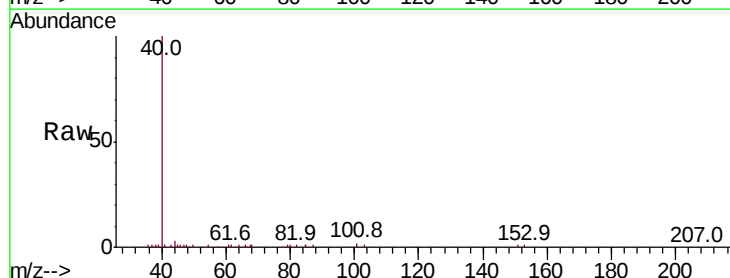
Tgt Ion:101 Resp: 577

Ion Ratio Lower Upper

101 100

85 46.4 33.8 50.6

151 47.7 69.1 103.7#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V

2.37

400

300

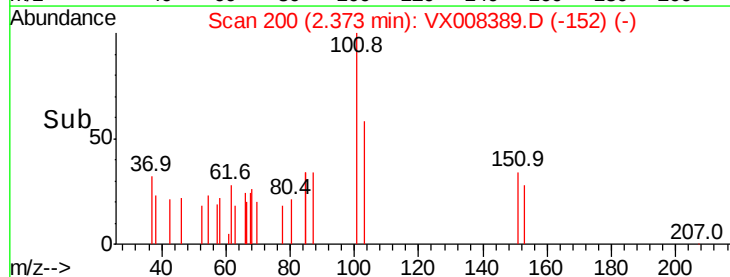
200

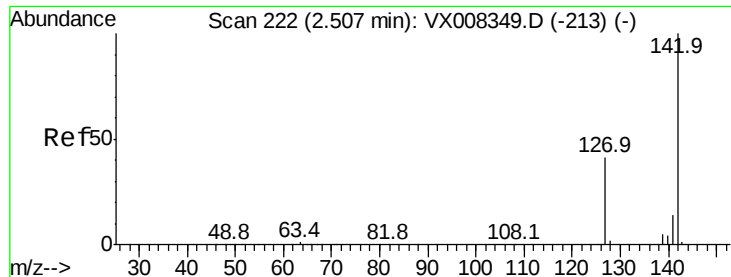
100

0

2.35 2.40 2.45

Time-->

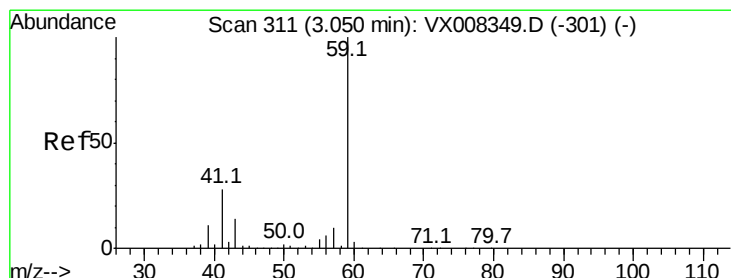
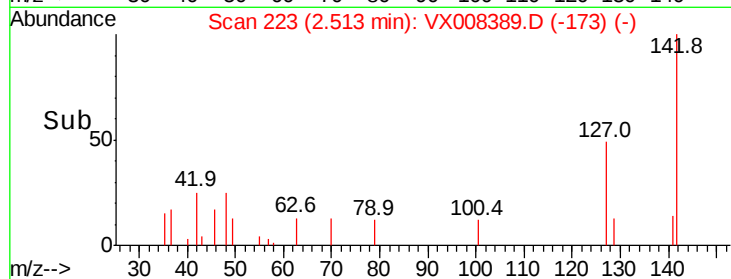
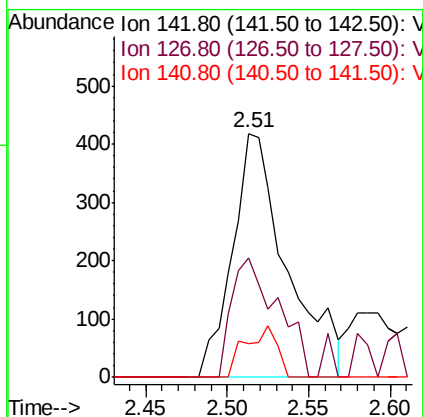
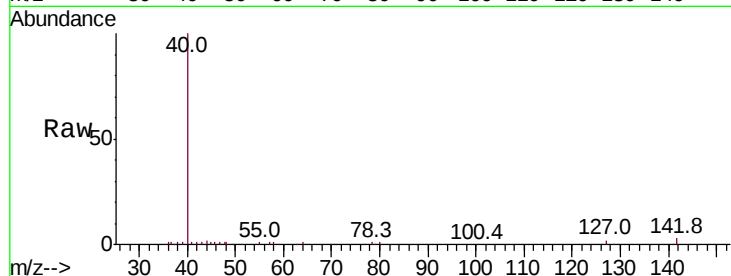




#10
Methyl Iodide
Concen: 0.313 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX008389.D
Acq: 24 Mar 2019 14:09

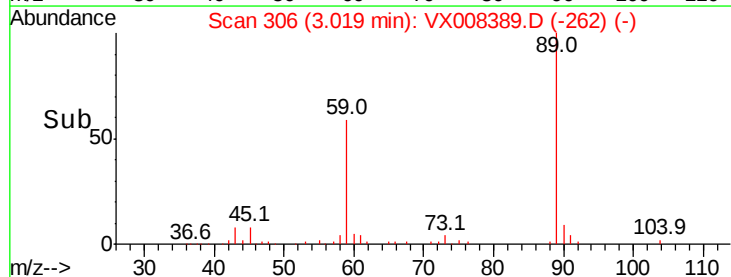
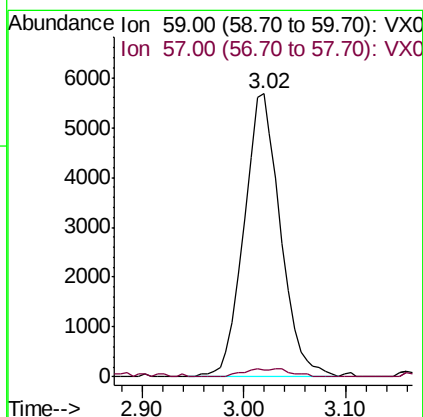
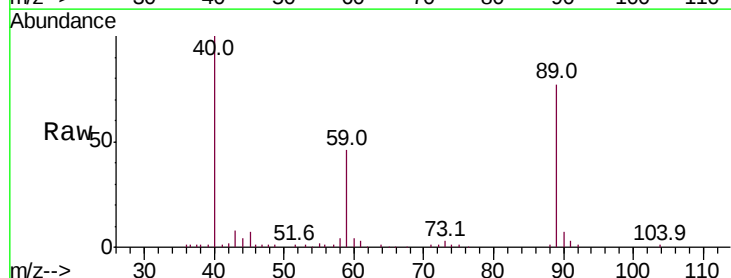
Instrument :
MSVOA_X
ClientSampleId :
M4-T2-OZ(PRE)

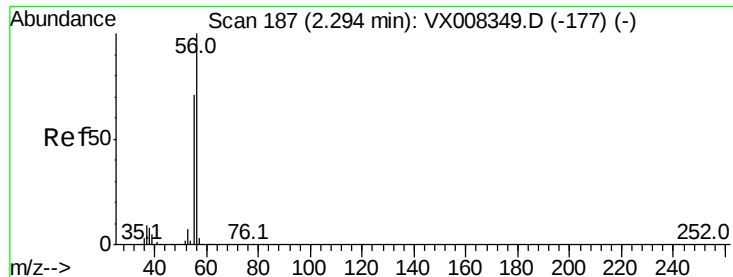
Tot Ion:142 Resp: 975
Ion Ratio Lower Upper
142 100
127 40.7 32.1 48.1
141 12.0 11.4 17.2



#11
Tert butyl alcohol
Concen: 18.686 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX008389.D
Acq: 24 Mar 2019 14:09

Tgt Ion: 59 Resp: 14113
Ion Ratio Lower Upper
59 100
57 1.7 8.2 12.2#





#13

Acrolein

Concen: 0.496 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX008389.D

Acq: 24 Mar 2019 14:09

Instrument :

MSVOA_X

ClientSampleId :

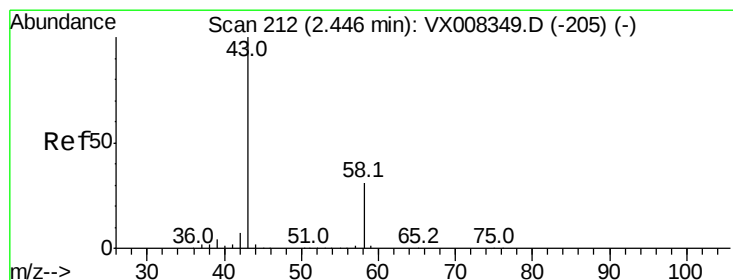
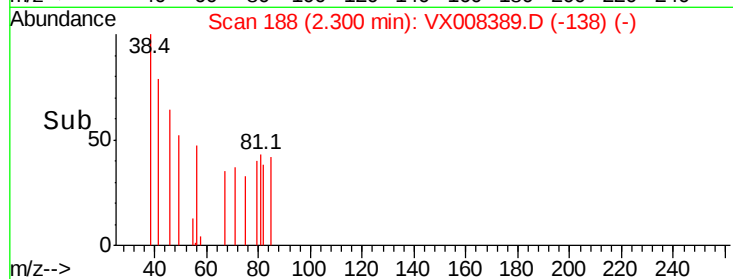
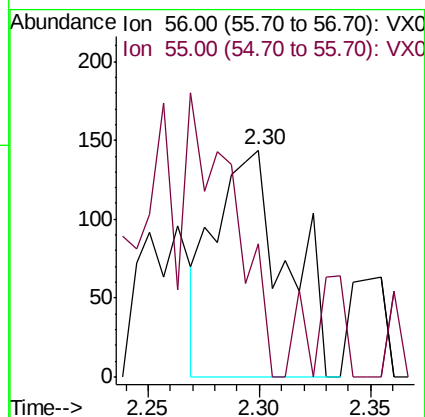
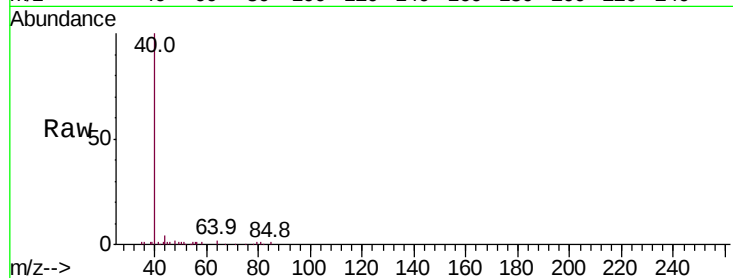
M4-T2-OZ(PRE)

Tot Ion: 56 Resp: 320

Ion Ratio Lower Upper

56 100

55 0.0 57.8 86.6#



#16

Acetone

Concen: 20.827 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX008389.D

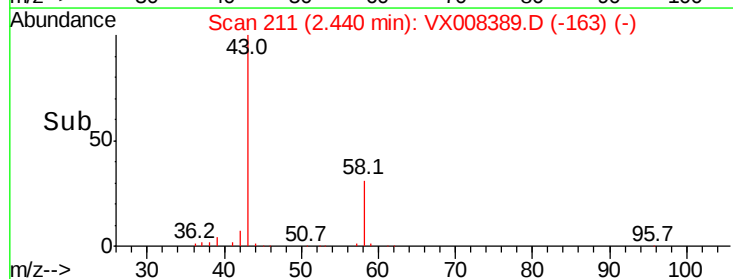
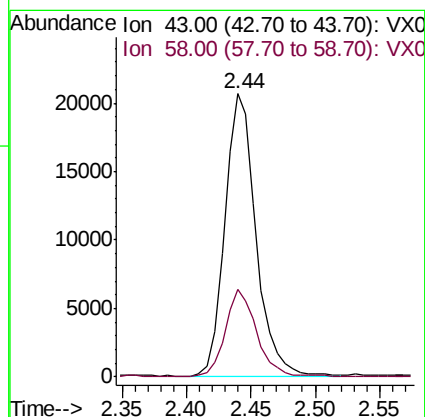
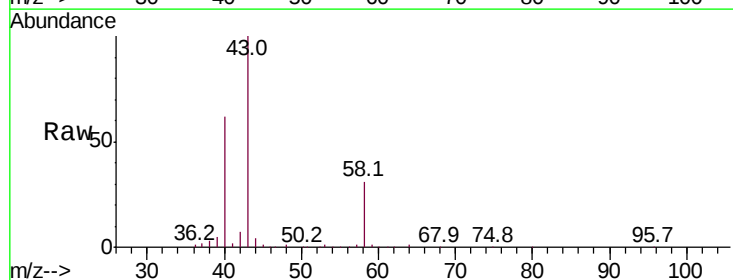
Acq: 24 Mar 2019 14:09

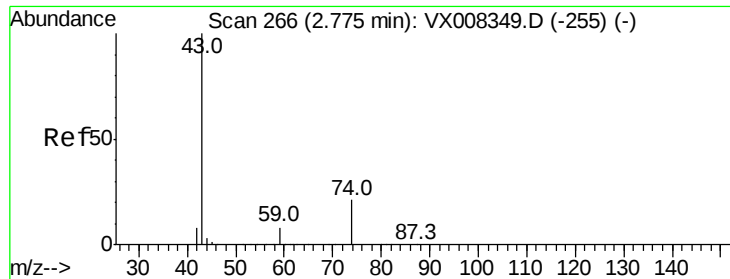
Tgt Ion: 43 Resp: 35299

Ion Ratio Lower Upper

43 100

58 30.8 25.5 38.3





#18

Methyl Acetate

Concen: 0.634 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.00 min

Lab File: VX008389.D

Acq: 24 Mar 2019 14:09

Instrument :

MSVOA_X

ClientSampled :

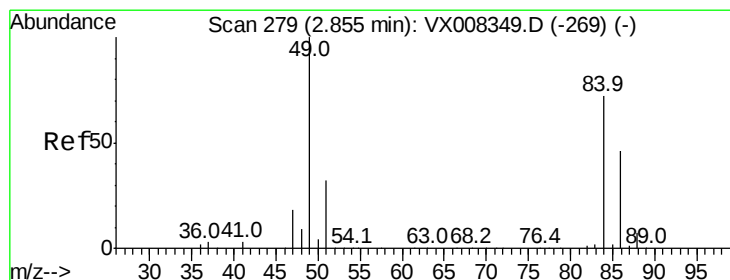
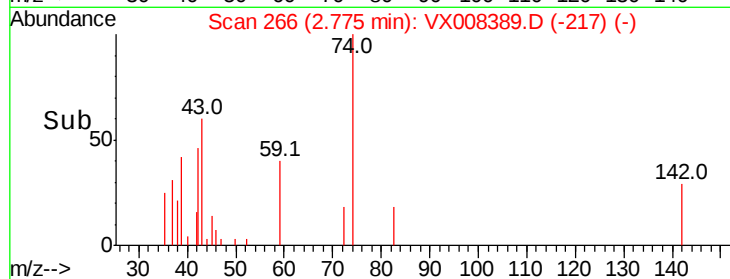
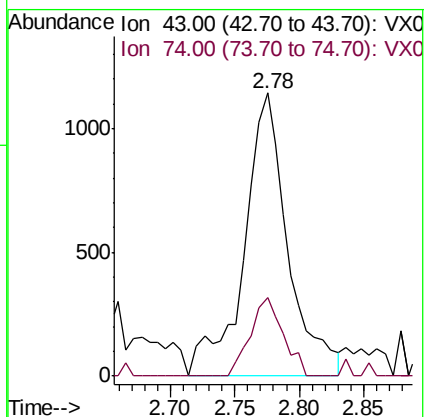
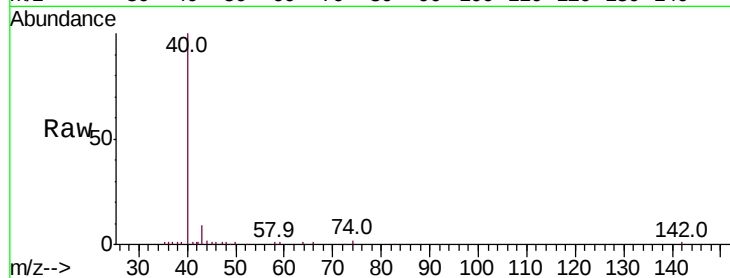
M4-T2-OZ(PRE)

Tot Ion: 43 Resp: 2691

Ion Ratio Lower Upper

43 100

74 20.7 17.8 26.6



#20

Methylene Chloride

Concen: 0.261 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX008389.D

Acq: 24 Mar 2019 14:09

Tgt Ion: 84 Resp: 797

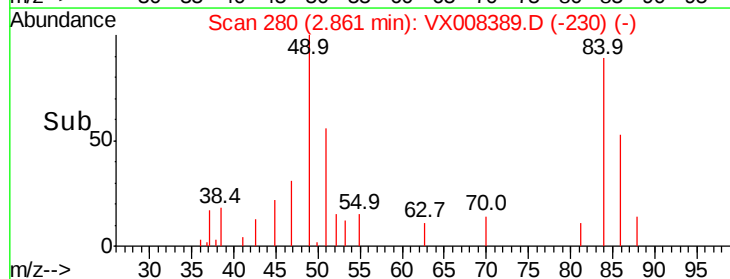
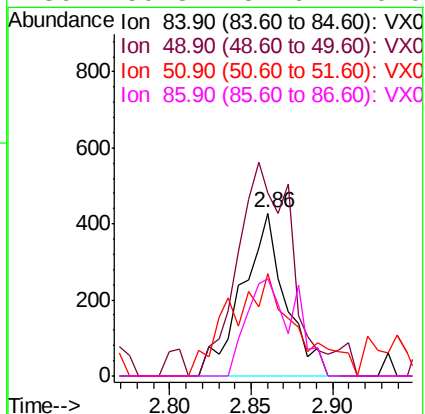
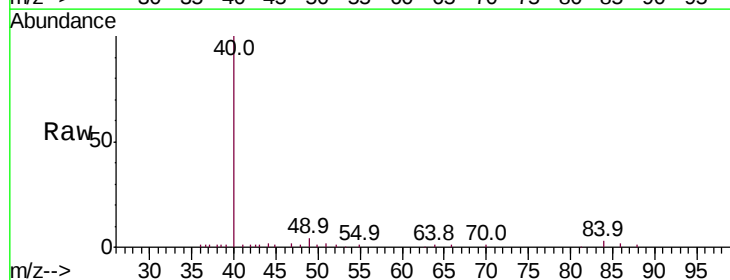
Ion Ratio Lower Upper

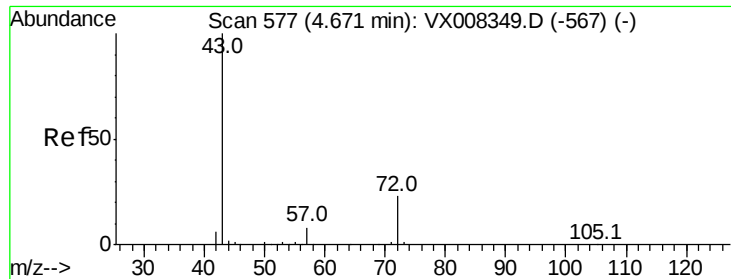
84 100

49 112.4 99.3 148.9

51 63.3 31.3 46.9#

86 59.8 52.6 79.0





#25

2-Butanone

Concen: 2.322 ug/l

RT: 4.68 min Scan# 578

Delta R.T. 0.01 min

Lab File: VX008389.D

Acq: 24 Mar 2019 14:09

Instrument :

MSVOA_X

ClientSampleId :

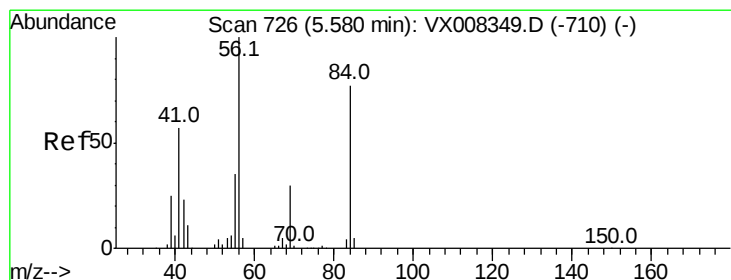
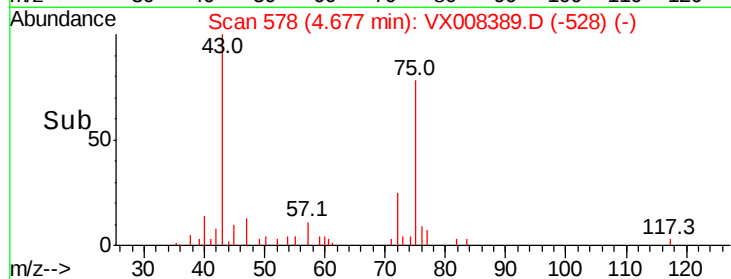
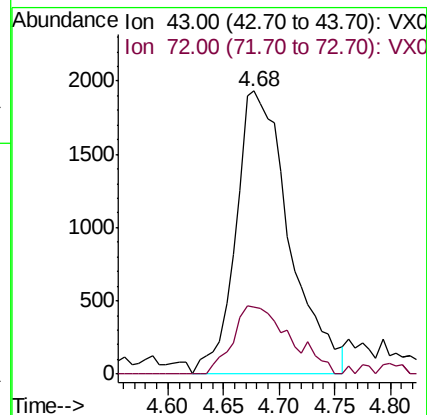
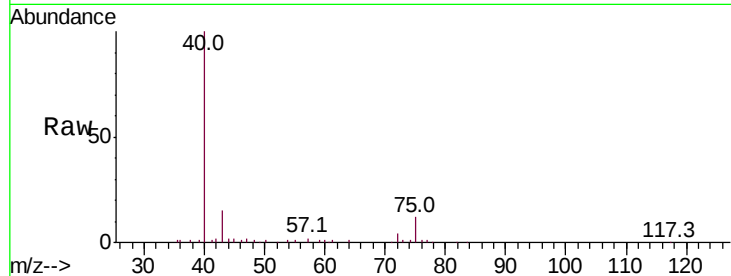
M4-T2-OZ(PRE)

Tot Ion: 43 Resp: 6480

Ion Ratio Lower Upper

43 100

72 23.8 19.9 29.9



#31

Cyclohexane

Concen: 0.962 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX008389.D

Acq: 24 Mar 2019 14:09

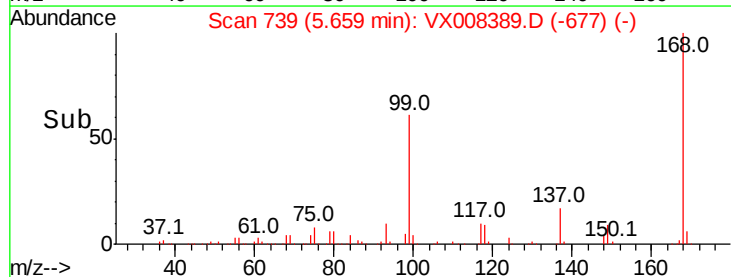
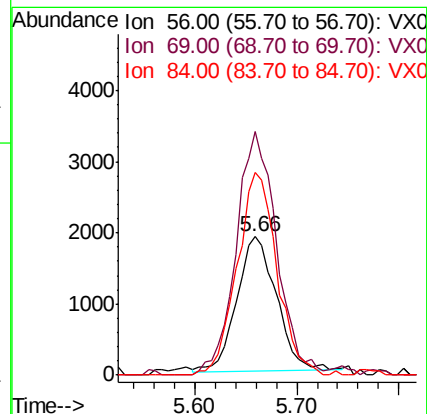
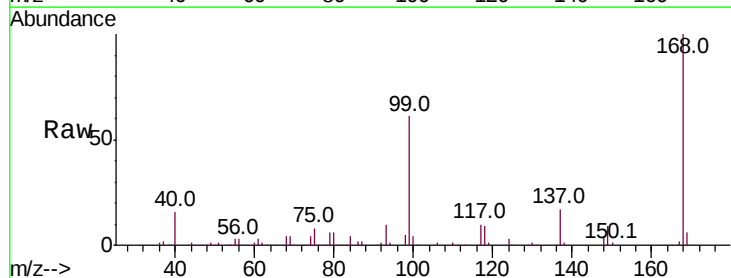
Tgt Ion: 56 Resp: 5130

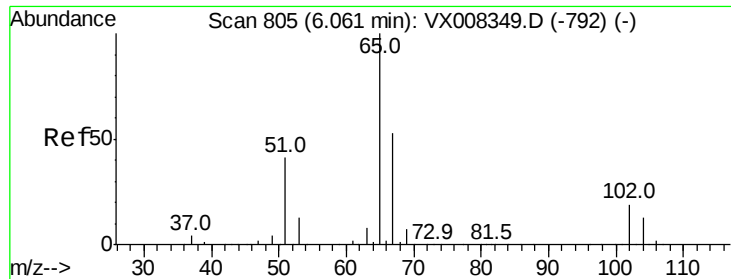
Ion Ratio Lower Upper

56 100

69 183.0 24.0 36.0#

84 152.2 65.3 97.9#





#33

1,2-Dichloroethane-d4

Concen: 48.420 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008389.D

Acq: 24 Mar 2019 14:09

Instrument :

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ClientSampleId :

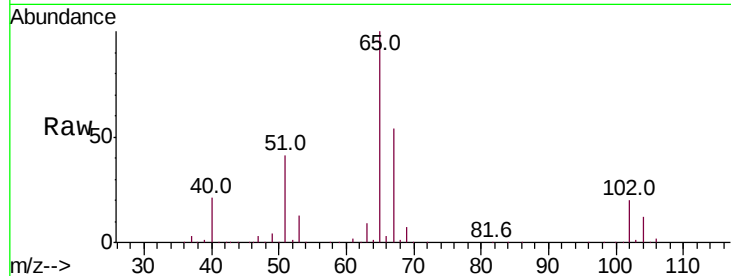
M4-T2-OZ(PRE)

Tot Ion: 65 Resp: 164181

Ion Ratio Lower Upper

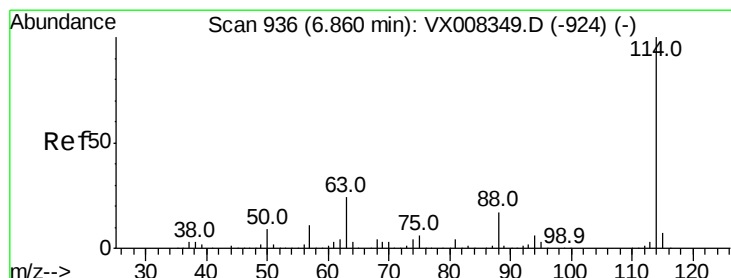
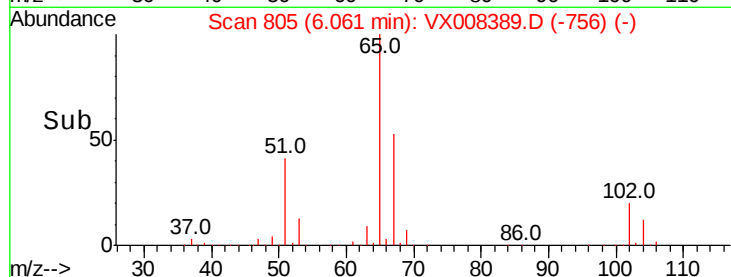
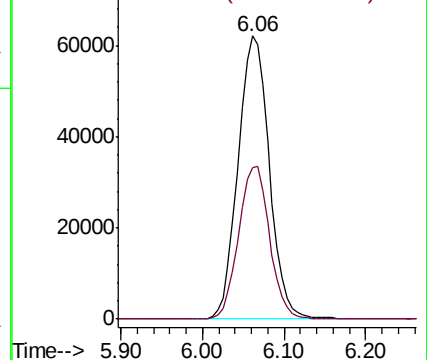
65 100

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: VX008389.D

Acq: 24 Mar 2019 14:09

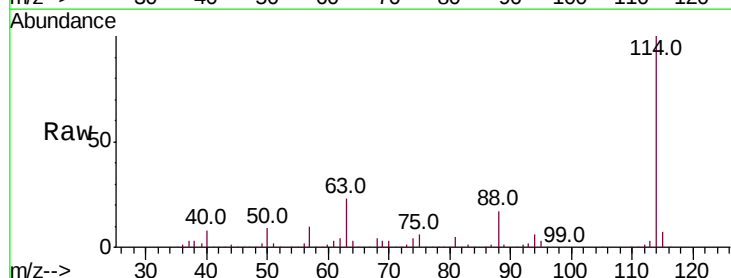
Tgt Ion:114 Resp: 381219

Ion Ratio Lower Upper

114 100

63 23.3 0.0 39.8

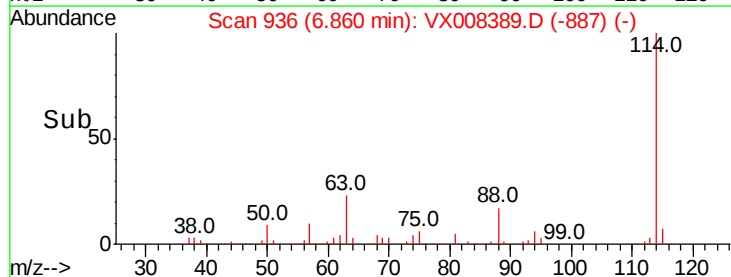
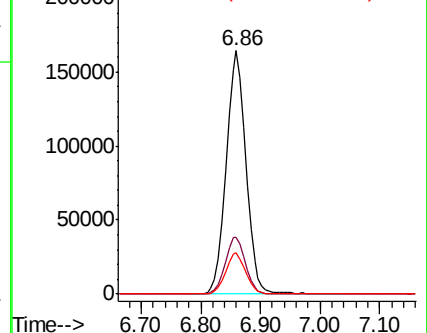
88 16.8 0.0 31.4

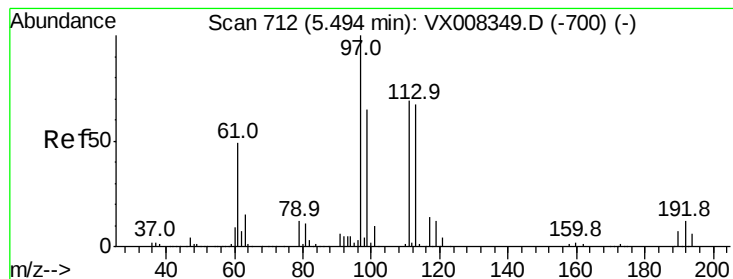


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.237 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX008389.D

Acq: 24 Mar 2019 14:09

Instrument :

MSVOA_X

ClientSampleId :

M4-T2-OZ(PRE)

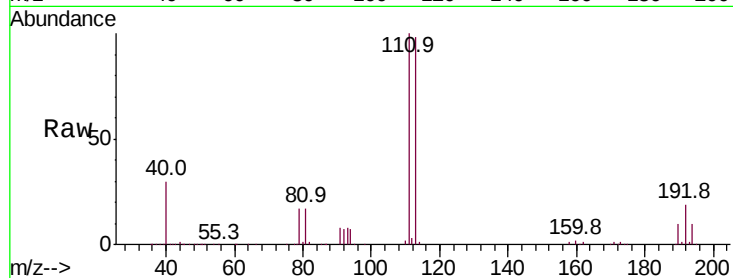
Tot Ion:113 Resp: 119140

Ion Ratio Lower Upper

113 100

111 104.4 81.4 122.0

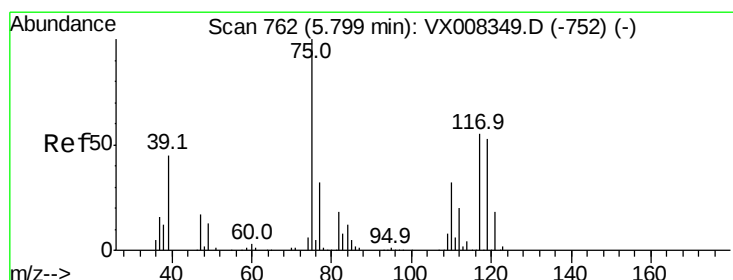
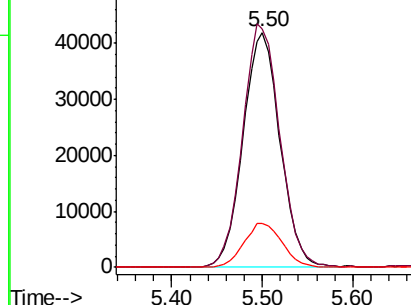
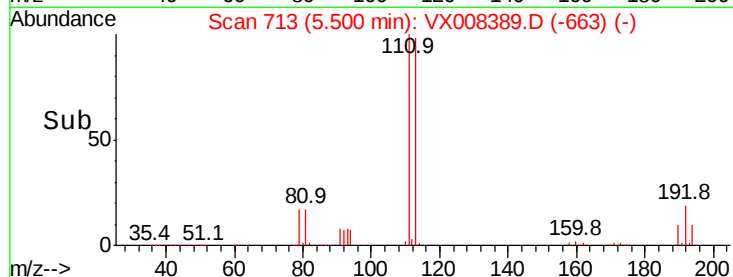
192 19.3 19.4 29.0#



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: 4.961 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008389.D

Acq: 24 Mar 2019 14:09

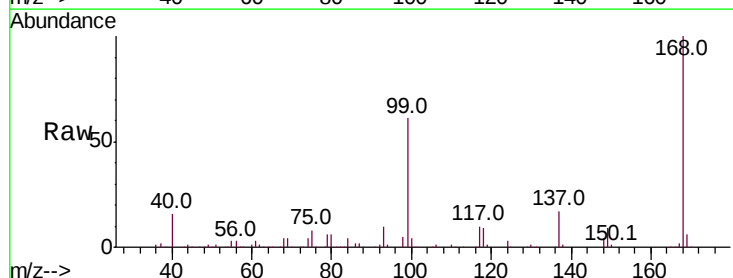
Tgt Ion: 75 Resp: 19327

Ion Ratio Lower Upper

75 100

110 8.5 18.4 55.0#

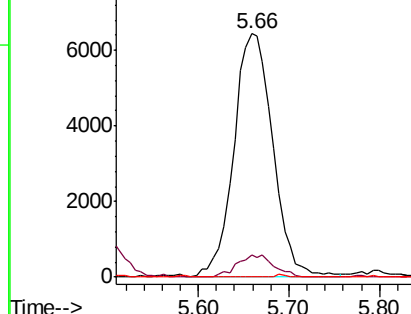
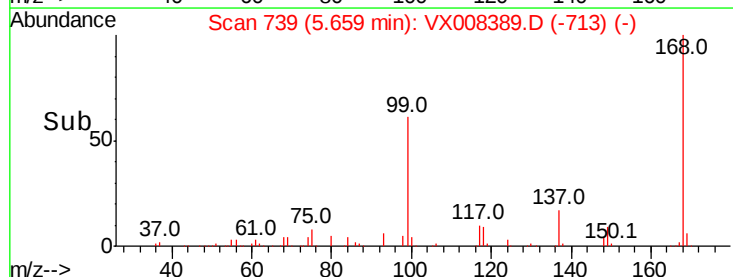
77 0.0 25.0 37.4#

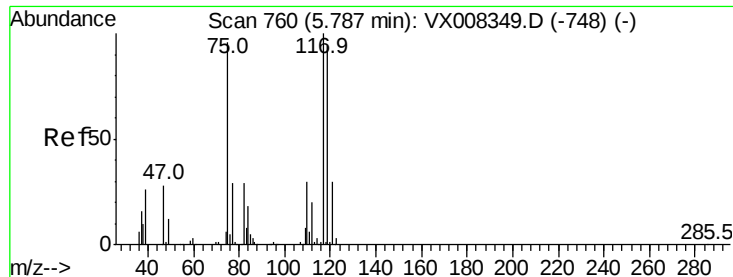


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.697 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008389.D

Acq: 24 Mar 2019 14:09

Instrument :

MSVOA_X

ClientSampleId :

M4-T2-OZ(PRE)

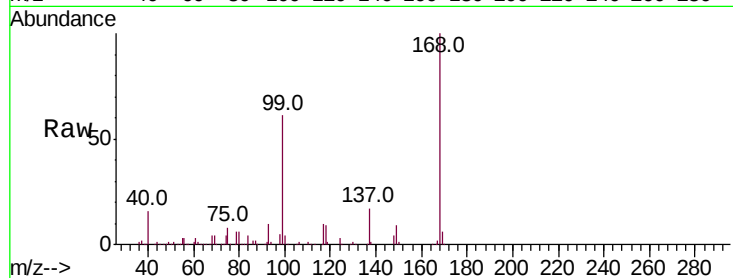
Tot Ion:117 Resp: 22363

Ion Ratio Lower Upper

117 100

119 6.4 76.2 114.2#

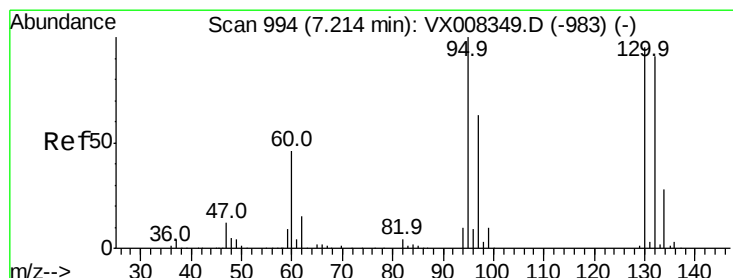
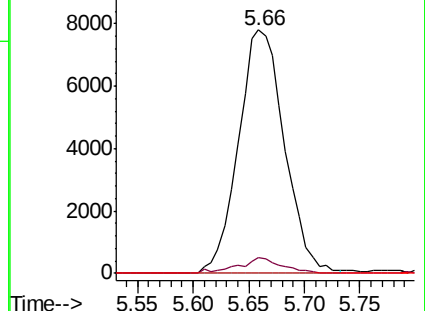
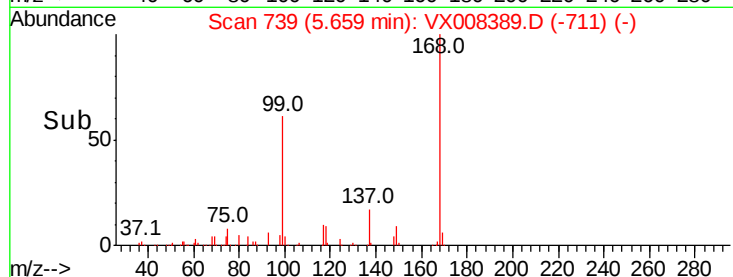
121 0.0 24.6 36.8#



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: 0.316 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX008389.D

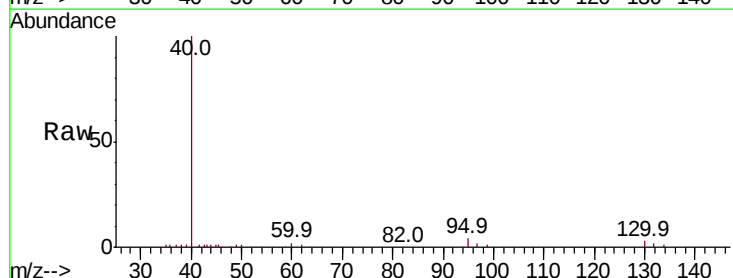
Acq: 24 Mar 2019 14:09

Tgt Ion:130 Resp: 871

Ion Ratio Lower Upper

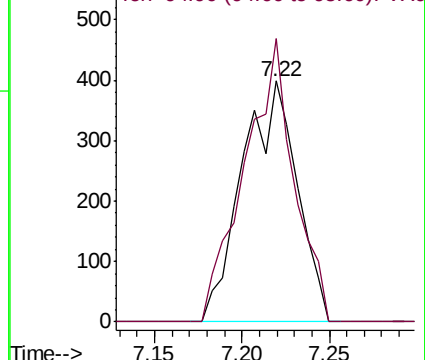
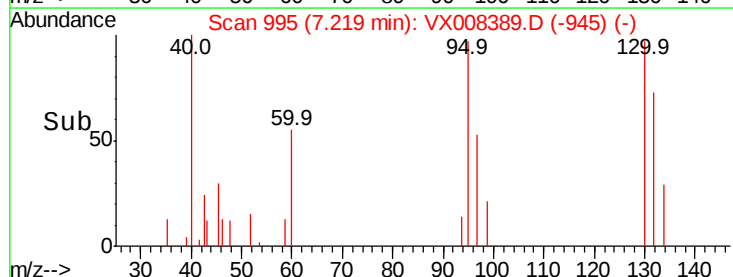
130 100

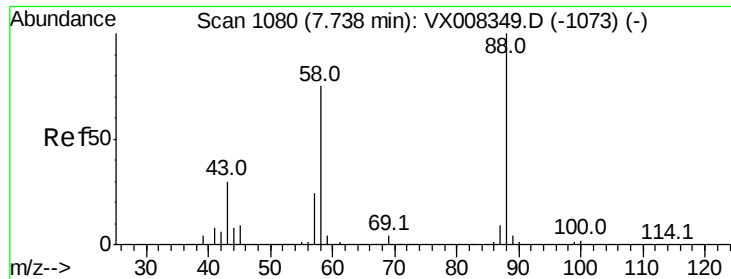
95 117.6 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): V

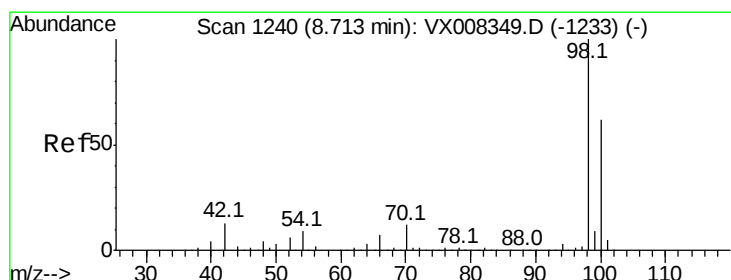
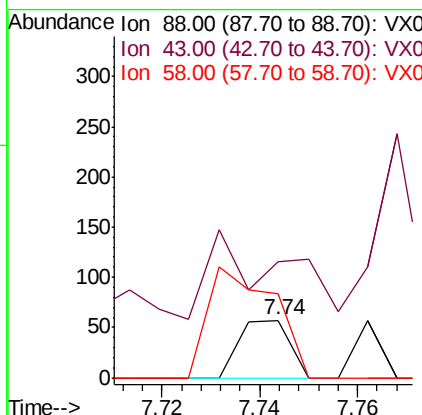
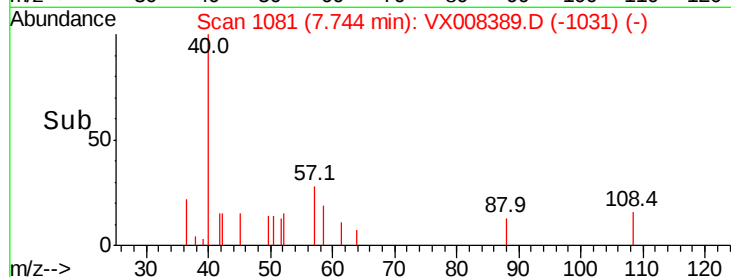
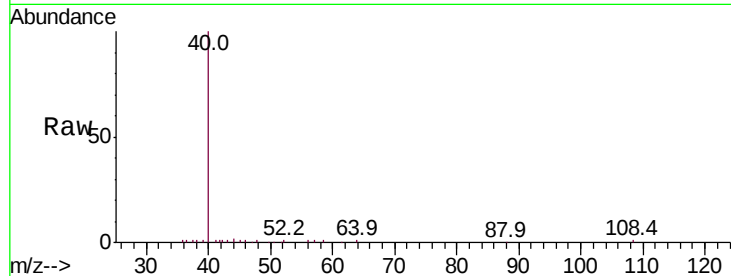




#49
1,4-Dioxane
Concen: 0.491 ug/l
RT: 7.74 min Scan# 1081
Delta R.T. 0.01 min
Lab File: VX008389.D
Acq: 24 Mar 2019 14:09

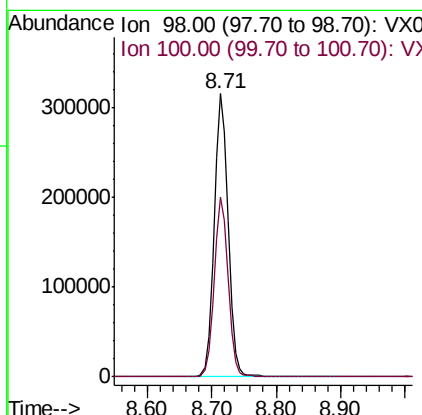
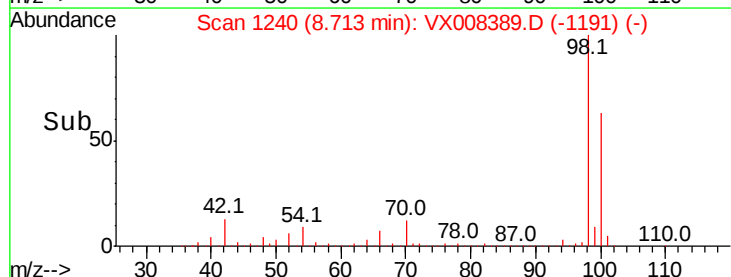
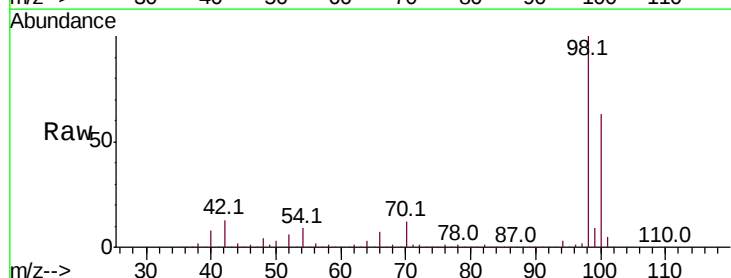
Instrument :
MSVOA_X
ClientSampleId :
M4-T2-OZ(PRE)

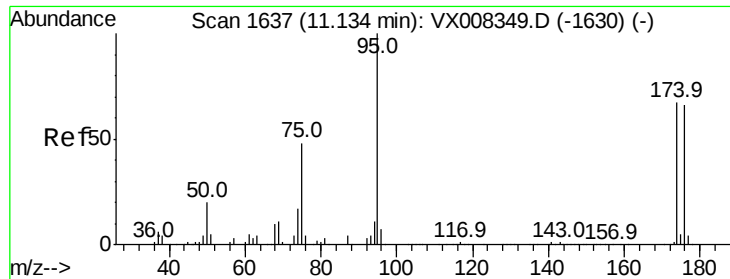
Tot Ion: 88 Resp: 41
Ion Ratio Lower Upper
88 100
43 217.1 25.1 37.7#
58 251.2 57.8 86.6#



#50
Toluene-d8
Concen: 49.616 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX008389.D
Acq: 24 Mar 2019 14:09

Tgt Ion: 98 Resp: 484705
Ion Ratio Lower Upper
98 100
100 63.4 51.7 77.5

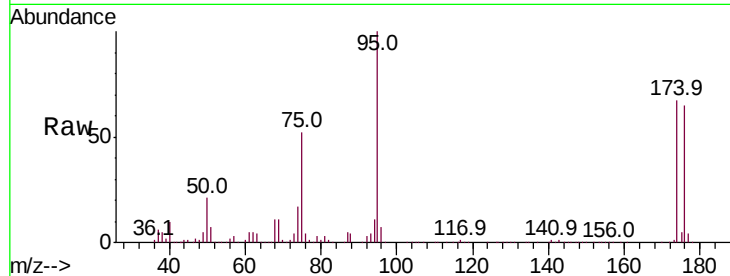




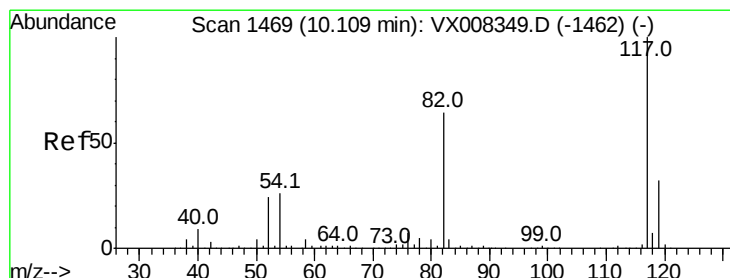
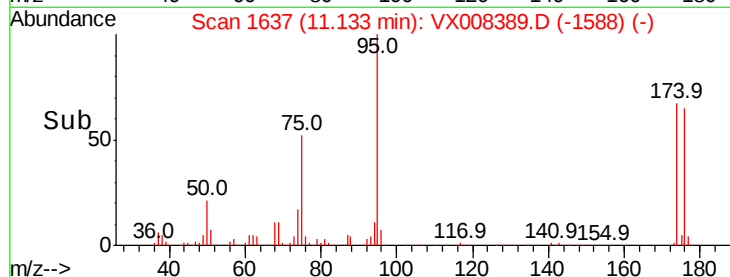
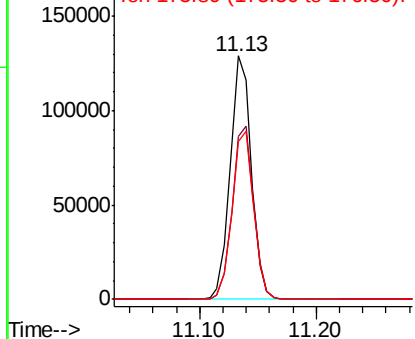
#62
4-Bromofluorobenzene
Concen: 45.624 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX008389.D
Acq: 24 Mar 2019 14:09

Instrument :
MSVOA_X
ClientSampleId :
M4-T2-OZ(PRE)

Tot Ion: 95 Resp: 163648
Ion Ratio Lower Upper
95 100
174 72.4 0.0 182.8
176 70.4 0.0 178.0

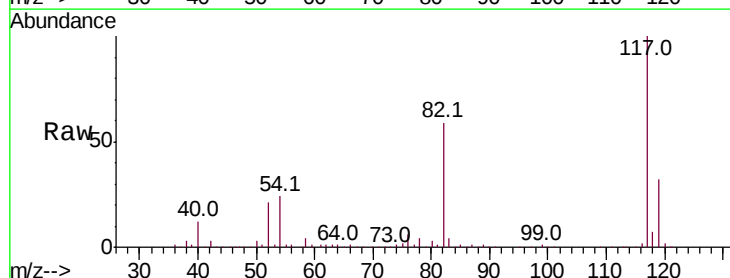


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

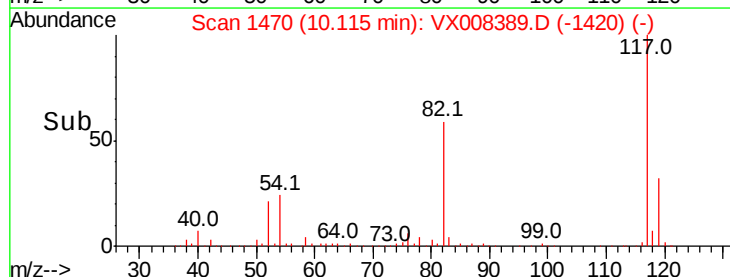
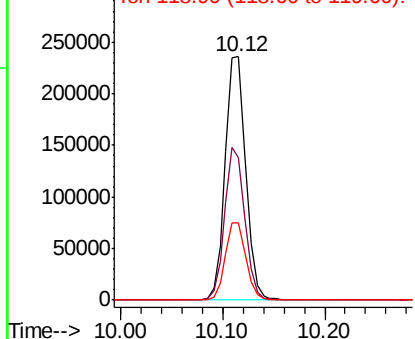


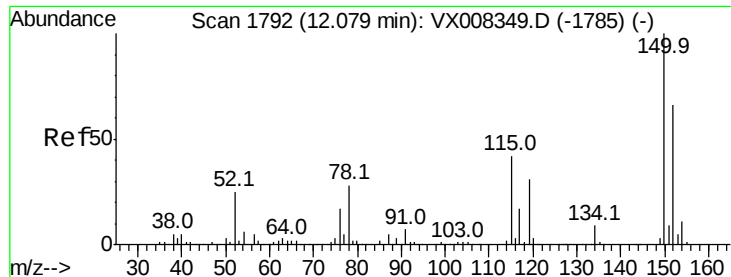
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX008389.D
Acq: 24 Mar 2019 14:09

Tgt Ion: 117 Resp: 329966
Ion Ratio Lower Upper
117 100
82 58.5 44.3 66.5
119 31.6 25.3 37.9



Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX008389.D

Acq: 24 Mar 2019 14:09

Instrument :

MSVOA_X

ClientSampleId :

M4-T2-OZ(PRE)

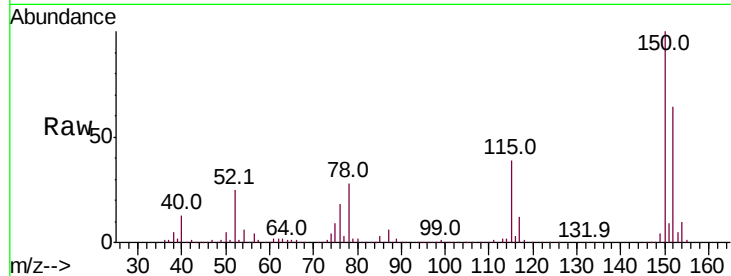
Tot Ion:152 Resp: 135900

Ion Ratio Lower Upper

152 100

115 61.8 38.6 115.7

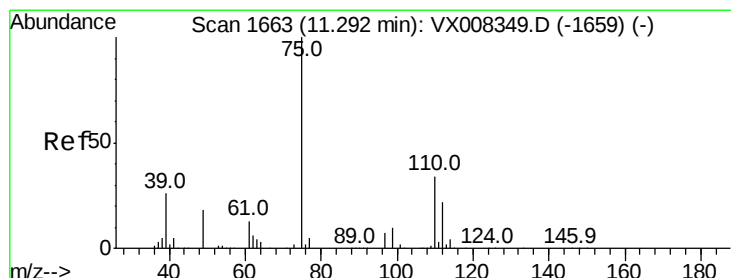
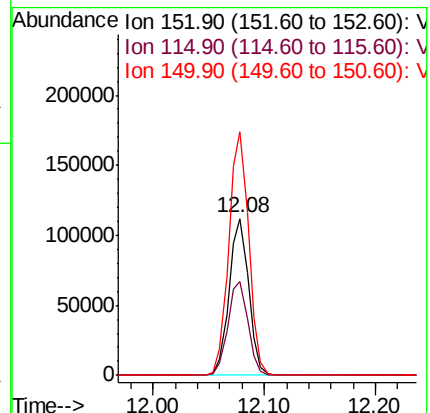
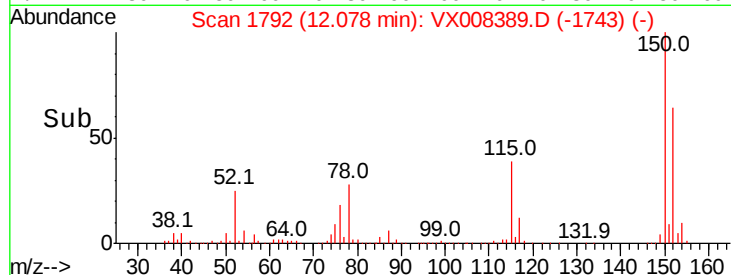
150 157.6 0.0 348.4



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: 23.715 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008389.D

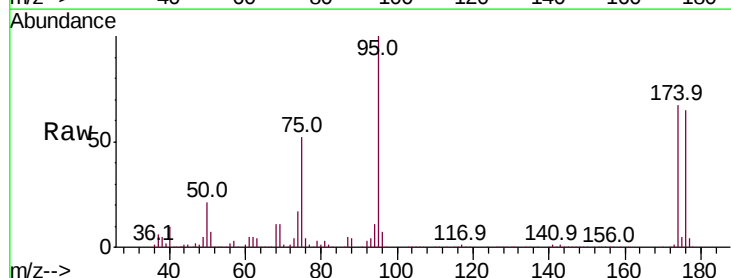
Acq: 24 Mar 2019 14:09

Tgt Ion: 75 Resp: 84357

Ion Ratio Lower Upper

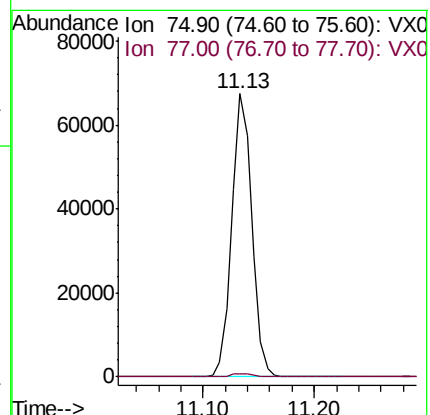
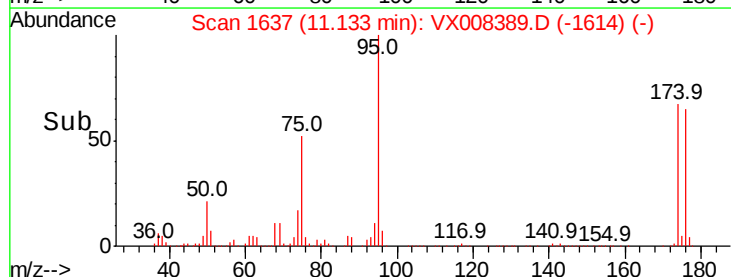
75 100

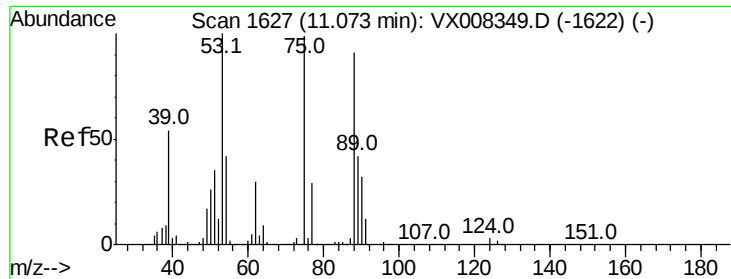
77 1.2 18.9 56.7#



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: 67.581 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008389.D

Acq: 24 Mar 2019 14:09

Instrument :

MSVOA_X

ClientSampleId :

M4-T2-OZ(PRE)

Tot Ion: 75 Resp: 84357

Ion Ratio Lower Upper

75 100

53 0.2 76.1 114.1#

89 0.0 36.3 54.5#

