

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031819\
 Data File : VX008171.D
 Acq On : 18 Mar 2019 17:45
 Operator : JC/SP
 Sample : K1909-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-02

Quant Time: Mar 19 02:42:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X031819W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Mar 18 14:34:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	51509	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	275210	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	232846	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	128420	29.97	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.90%
60) 4-Bromofluorobenzene	11.13	95	108376	27.89	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	92.97%
63) Toluene-d8	8.71	98	342605	30.28	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.93%

Target Compounds

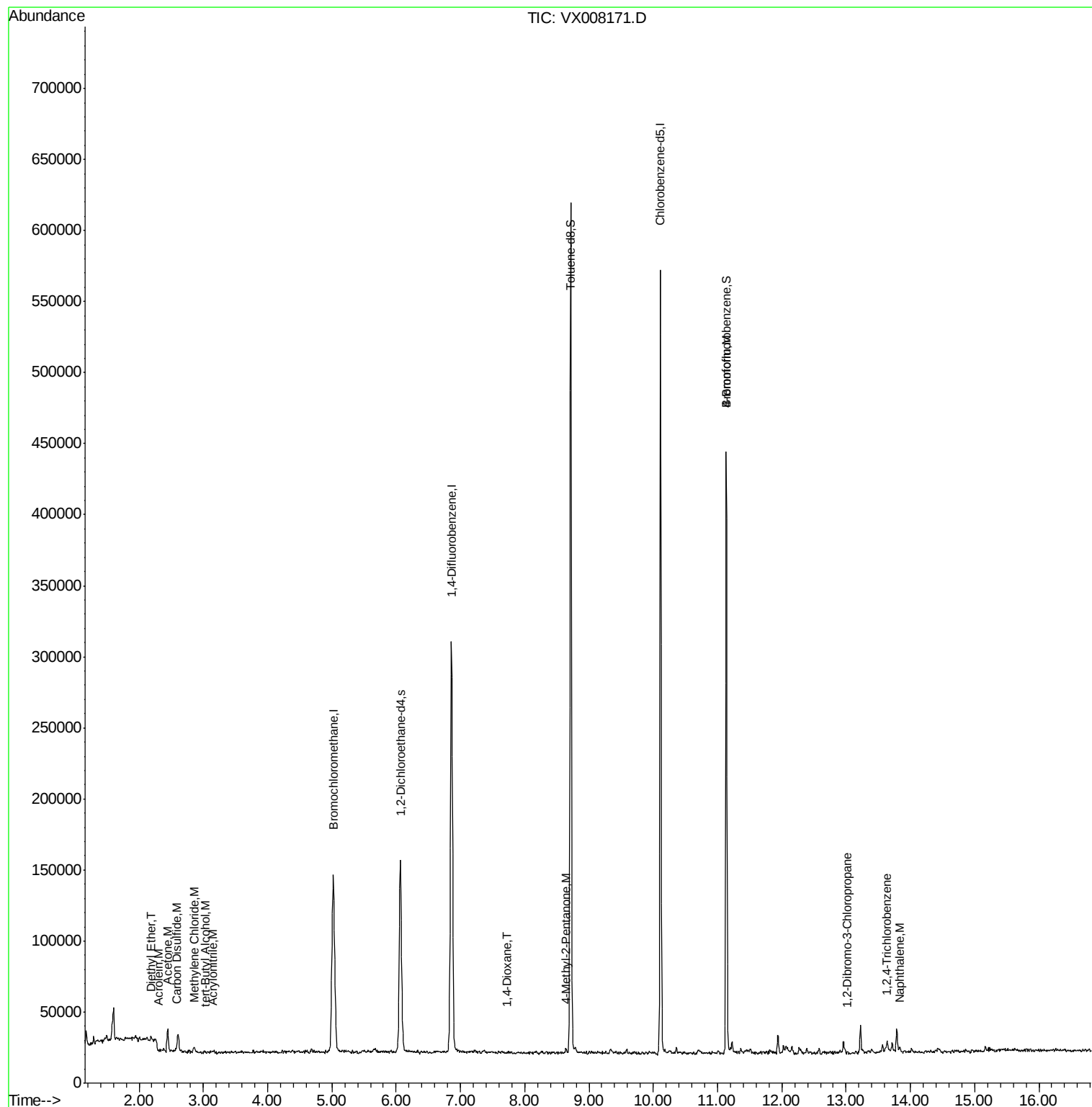
					Ovalue
8) Diethyl Ether	2.19	74	864	0.424 ug/l	84
13) Acrolein	2.29	56	277	0.455 ug/l	98
14) Acrylonitrile	3.14	53	465	0.265 ug/l	68
15) Acetone	2.45	58	5149	9.117 ug/l	91
16) Carbon Disulfide	2.57	76	2484	0.322 ug/l	95
18) Methylene Chloride	2.86	84	1635	0.580 ug/l #	73
23) tert-Butyl Alcohol	3.04	59	397	0.613 ug/l #	54
45) 1,4-Dioxane	7.73	88	46	0.697 ug/l #	1
56) Bromoform	11.14	173	1211	0.664 ug/l #	1
58) 4-Methyl-2-Pentanone	8.64	43	2519	0.566 ug/l	91
88) 1,2-Dibromo-3-Chloropropan	13.01	75	263	0.301 ug/l #	1
89) 1,2,4-Trichlorobenzene	13.65	180	933	0.301 ug/l #	93
91) Naphthalene	13.83	128	2488	0.248 ug/l #	93

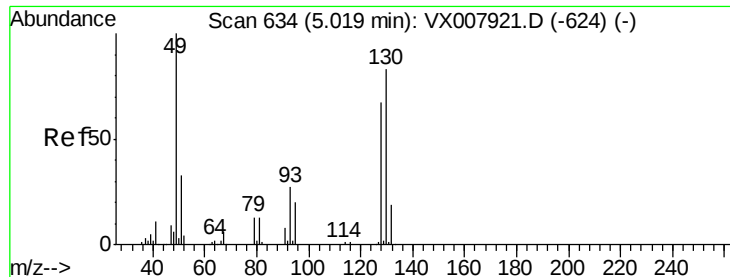
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX031819\
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MSVOA_X
ClientSampleId :
MH-02

Quant Time: Mar 19 02:42:08 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X031819W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Mon Mar 18 14:34:46 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.02 min Scan# 634

Delta R.T. -0.00 min

Lab File: VX008171.D

Acq: 18 Mar 2019 17:45

Instrument :

MSVOA_X

ClientSampled :

MH-02

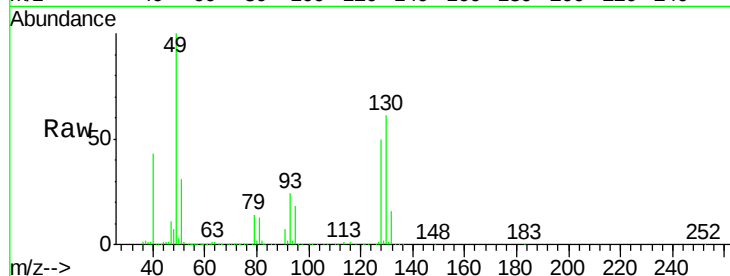
Tot Ion:128 Resp: 51509

Ion Ratio Lower Upper

128 100

49 189.7 0.0 350.8

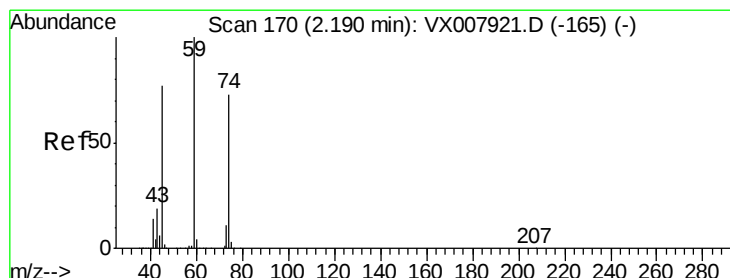
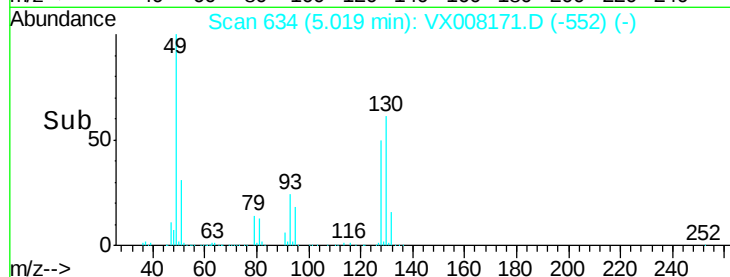
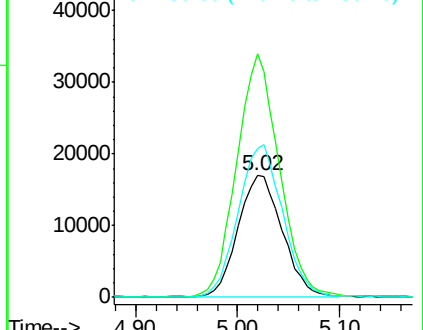
130 125.9 0.0 325.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#8

Diethyl Ether

Concen: 0.424 ug/l

RT: 2.19 min Scan# 170

Delta R.T. -0.00 min

Lab File: VX008171.D

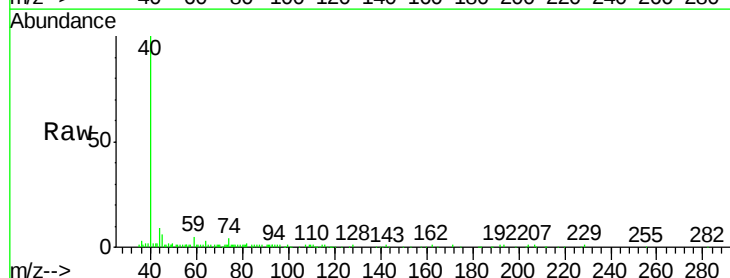
Acq: 18 Mar 2019 17:45

Tgt Ion: 74 Resp: 864

Ion Ratio Lower Upper

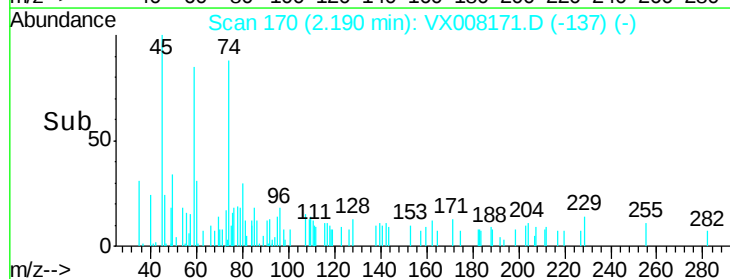
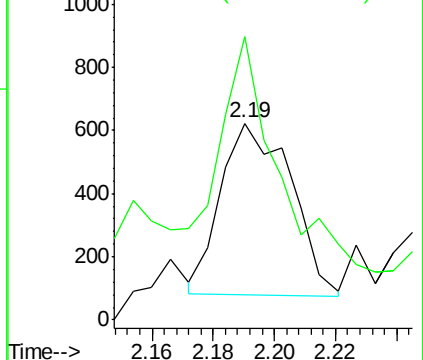
74 100

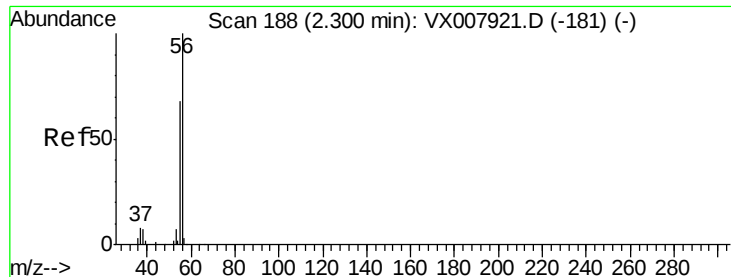
45 108.9 18.6 167.8



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0





#13

Acrolein

Concen: 0.455 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX008171.D

Acq: 18 Mar 2019 17:45

Instrument :

MSVOA_X

ClientSampled :

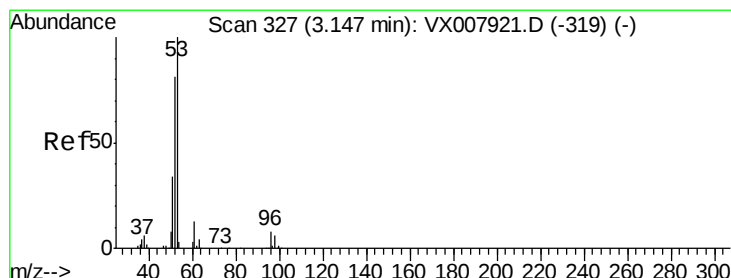
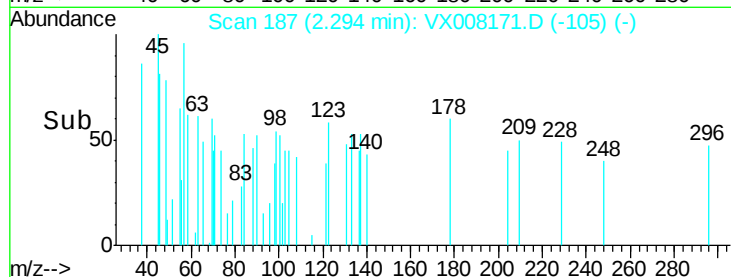
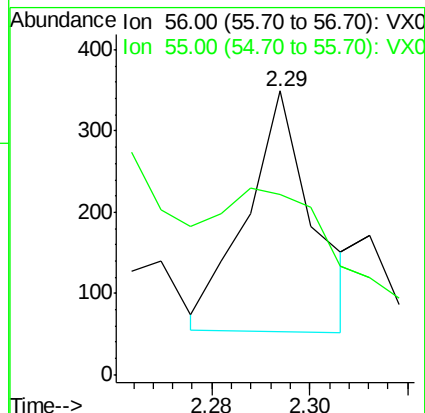
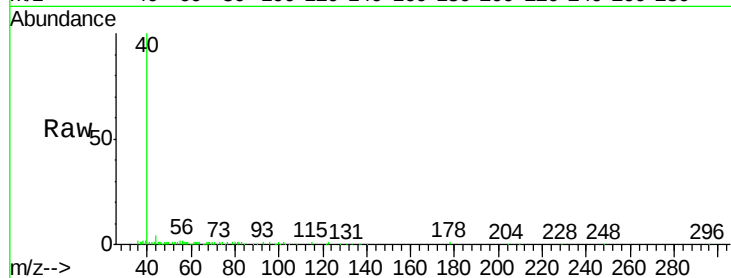
MH-02

Tot Ion: 56 Resp: 277

Ion Ratio Lower Upper

56 100

55 71.8 58.6 87.8



#14

Acrylonitrile

Concen: 0.265 ug/l

RT: 3.14 min Scan# 325

Delta R.T. -0.01 min

Lab File: VX008171.D

Acq: 18 Mar 2019 17:45

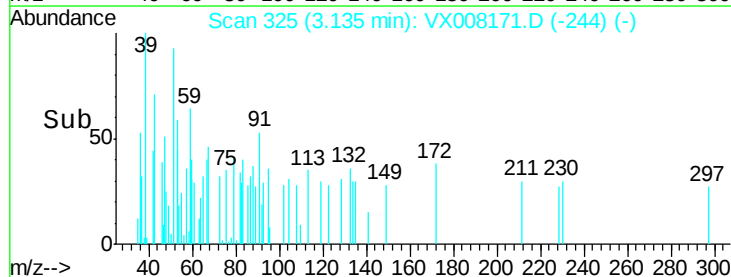
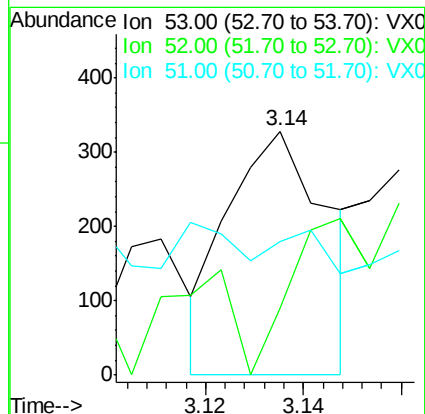
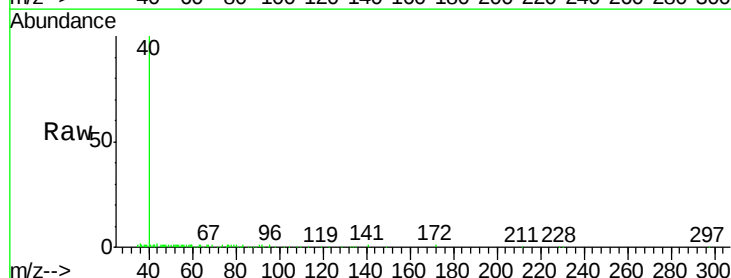
Tgt Ion: 53 Resp: 465

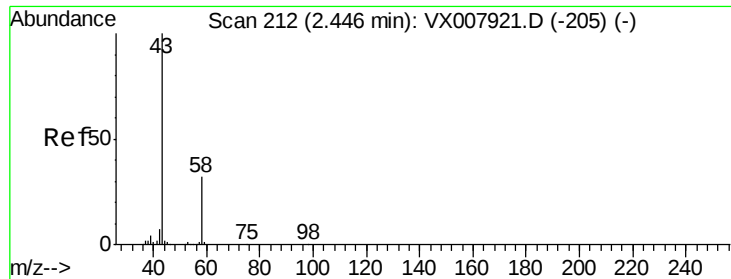
Ion Ratio Lower Upper

53 100

52 50.3 41.3 124.1

51 21.3 17.5 52.6





#15

Acetone

Concen: 9.117 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX008171.D

Acq: 18 Mar 2019 17:45

Instrument :

MSVOA_X

ClientSampled :

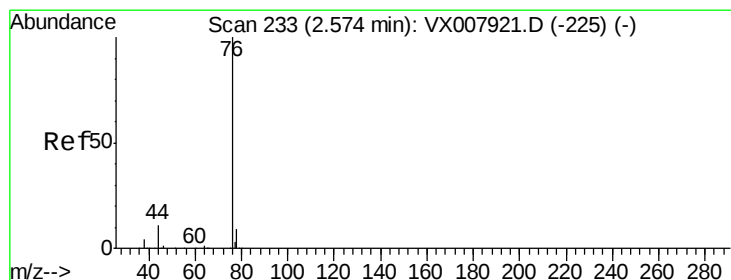
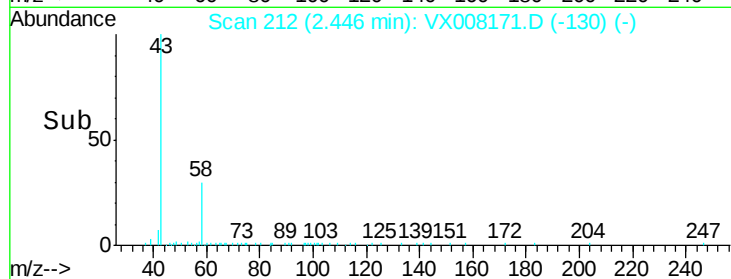
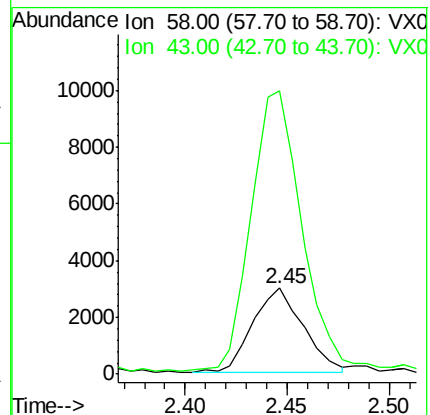
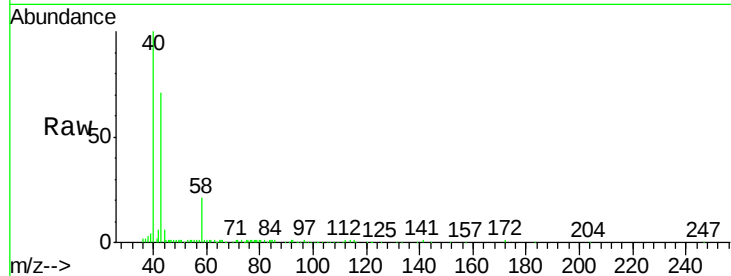
MH-02

Tot Ion: 58 Resp: 5149

Ion Ratio Lower Upper

58 100

43 330.3 249.8 374.6



#16

Carbon Disulfide

Concen: 0.322 ug/l

RT: 2.57 min Scan# 233

Delta R.T. -0.00 min

Lab File: VX008171.D

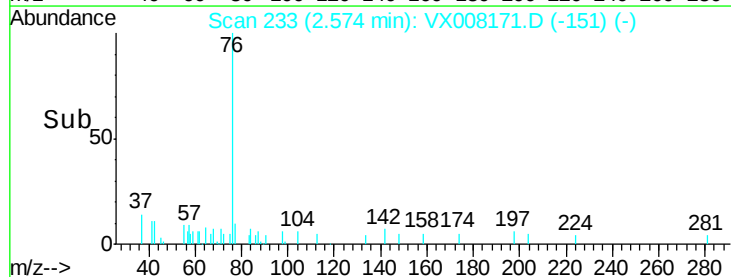
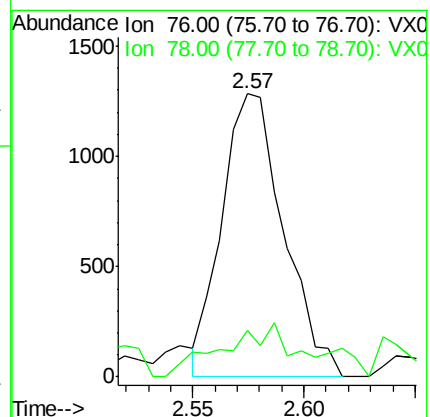
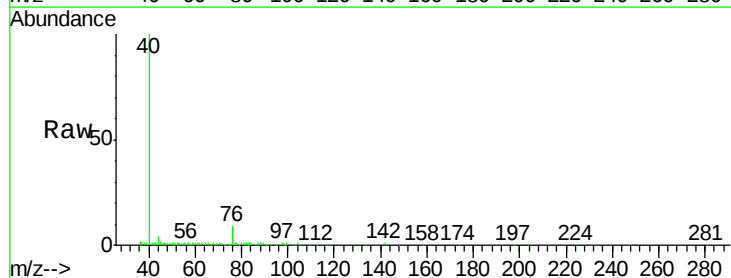
Acq: 18 Mar 2019 17:45

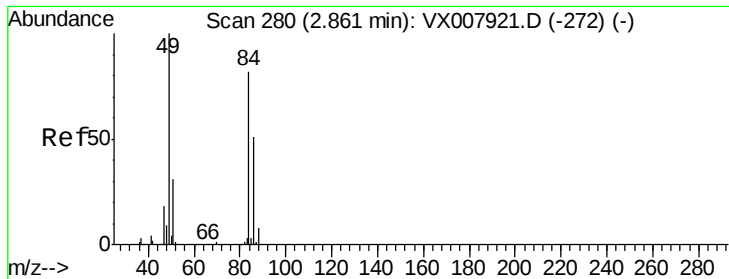
Tgt Ion: 76 Resp: 2484

Ion Ratio Lower Upper

76 100

78 7.7 7.5 11.3

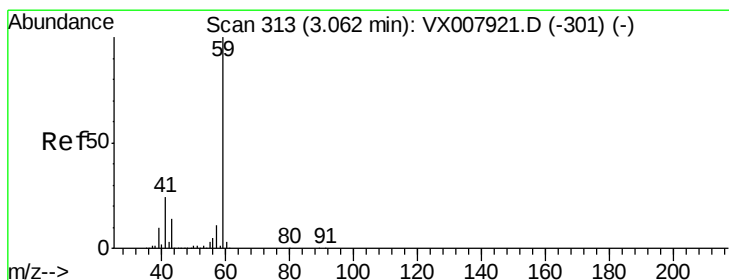
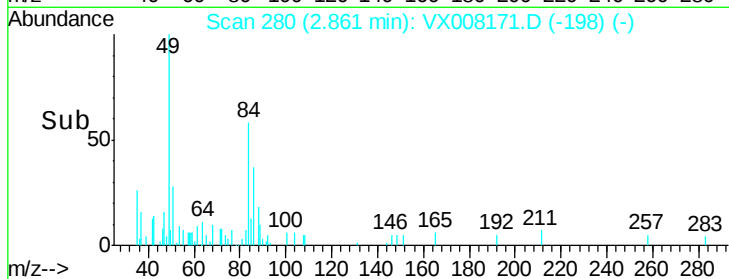
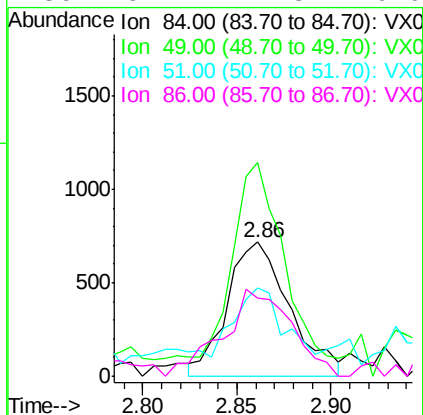
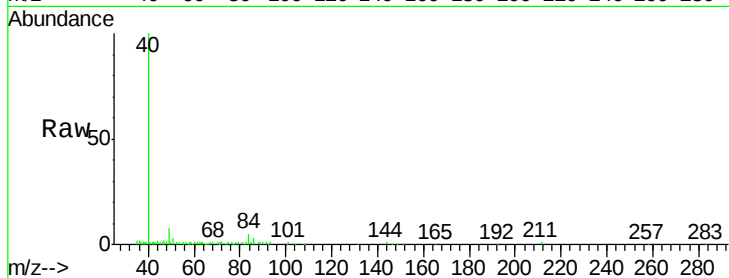




#18
Methvlene Chloride
Concen: 0.580 ug/l
RT: 2.86 min Scan# 280
Delta R.T. -0.00 min
Lab File: VX008171.D
Acq: 18 Mar 2019 17:45

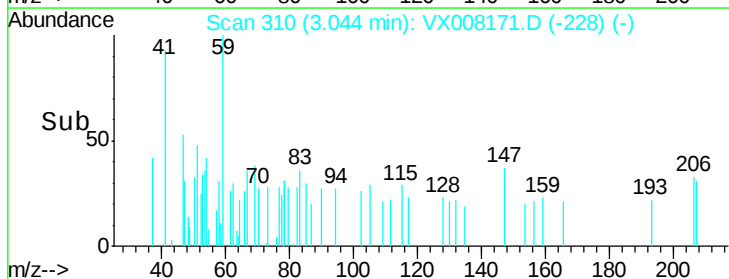
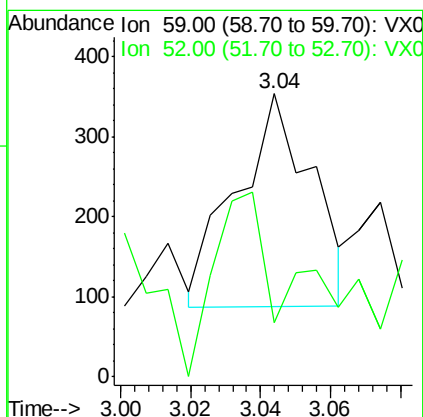
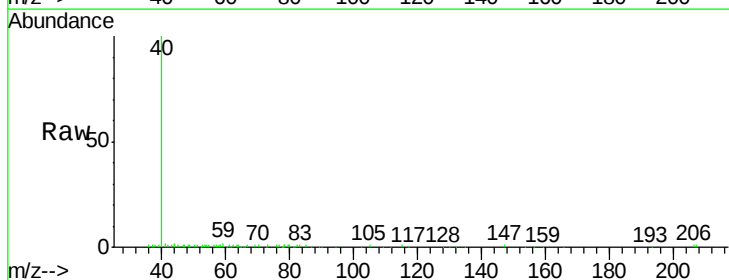
Instrument :
MSVOA_X
ClientSampled :
MH-02

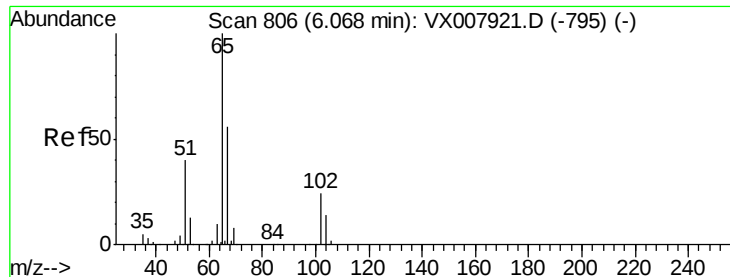
Tot Ion: 84 Resp: 1635
Ion Ratio Lower Upper
84 100
49 161.3 96.1 144.1#
51 53.1 29.1 43.7#
86 64.4 47.3 70.9



#23
tert-Butyl Alcohol
Concen: 0.613 ug/l
RT: 3.04 min Scan# 310
Delta R.T. 0.00 min
Lab File: VX008171.D
Acq: 18 Mar 2019 17:45

Tgt Ion: 59 Resp: 397
Ion Ratio Lower Upper
59 100
52 59.2 0.2 0.2#





#27

1,2-Dichloroethane-d4

Concen: 29.972 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX008171.D

Acq: 18 Mar 2019 17:45

Instrument :

MSVOA_X

ClientSampled :

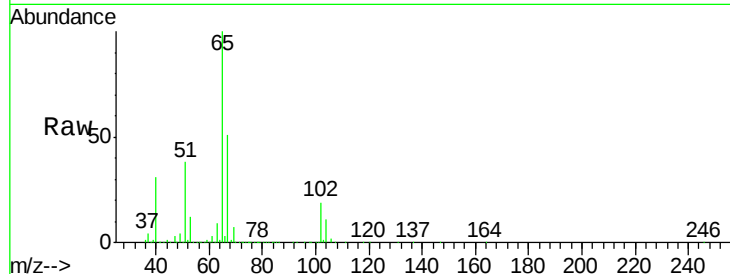
MH-02

Tot Ion: 65 Resp: 128420

Ion Ratio Lower Upper

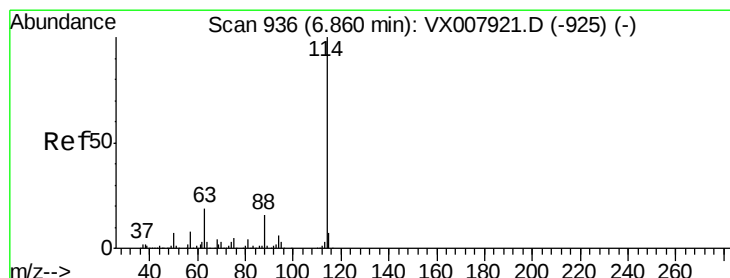
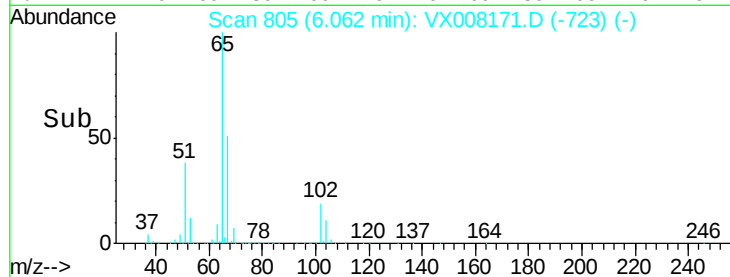
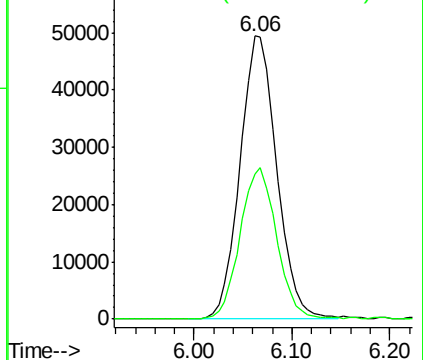
65 100

67 53.5 42.9 64.3



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX008171.D

Acq: 18 Mar 2019 17:45

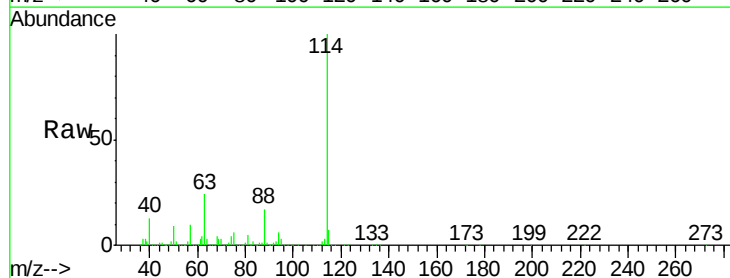
Tgt Ion: 114 Resp: 275210

Ion Ratio Lower Upper

114 100

63 23.1 14.2 21.4#

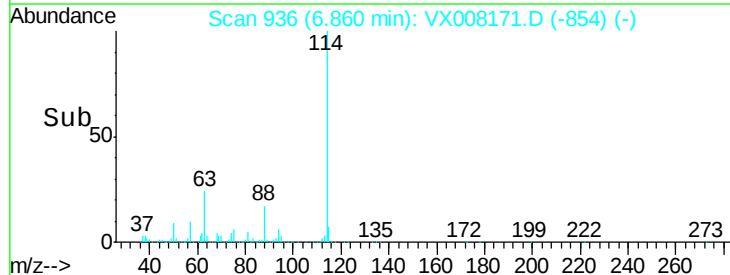
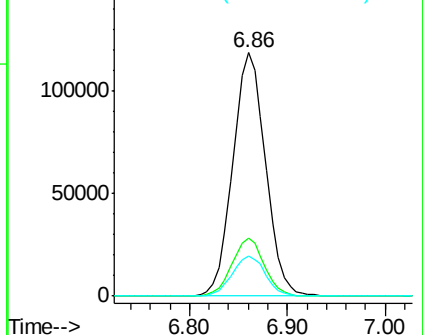
88 16.7 11.9 17.9

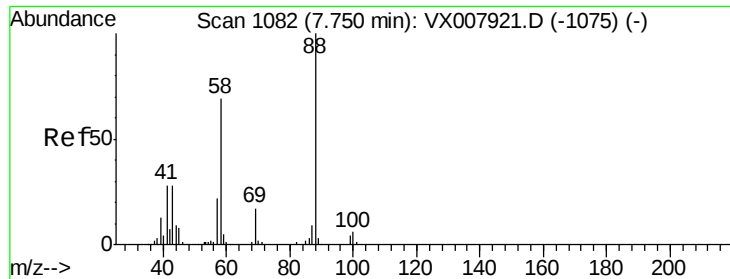


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0





#45

1,4-Dioxane

Concen: 0.697 ug/l

RT: 7.73 min Scan# 1079

Delta R.T. -0.01 min

Lab File: VX008171.D

Acq: 18 Mar 2019 17:45

Instrument :

MSVOA_X

ClientSampleId :

MH-02

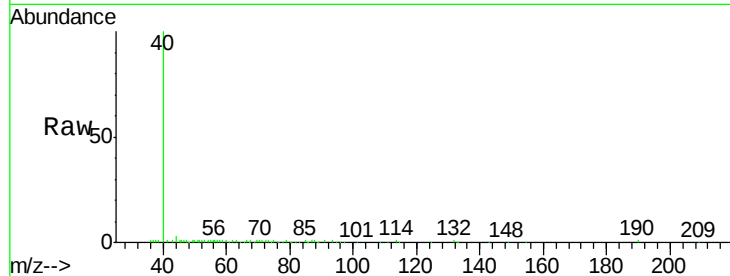
Tot Ion: 88 Resp: 46

Ion Ratio Lower Upper

88 100

43 443.5 23.6 35.4#

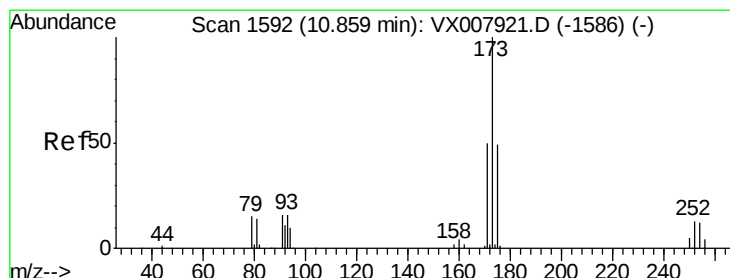
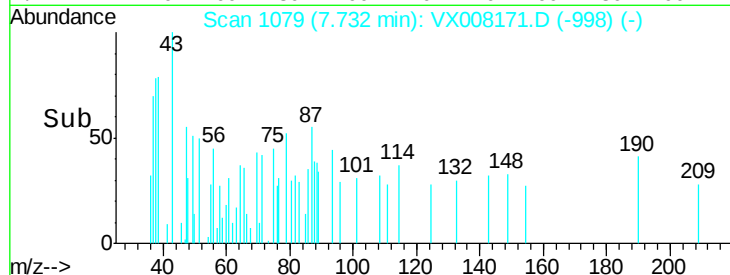
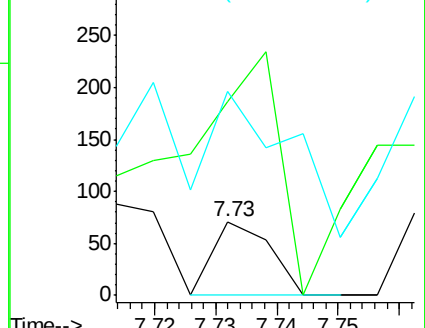
58 437.0 51.6 77.4#



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



#56

Bromoform

Concen: 0.664 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.29 min

Lab File: VX008171.D

Acq: 18 Mar 2019 17:45

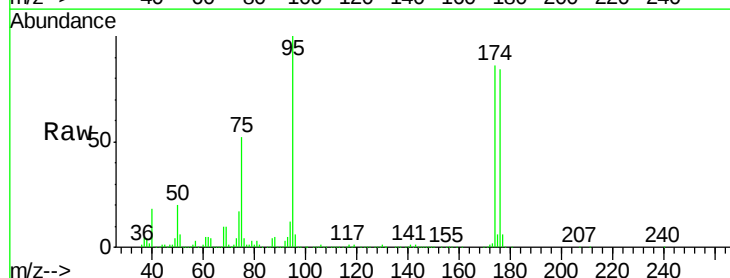
Tgt Ion: 173 Resp: 1211

Ion Ratio Lower Upper

173 100

175 526.9 38.5 57.7#

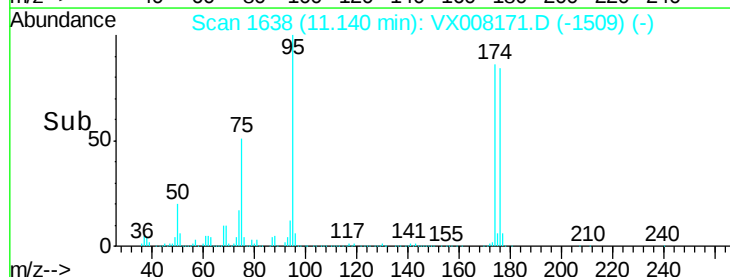
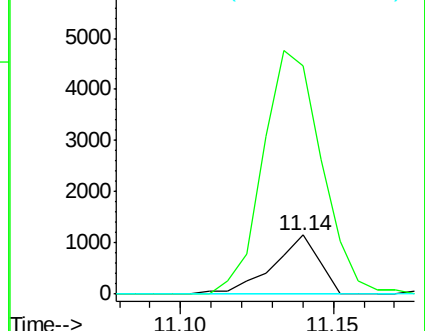
254 0.0 7.4 11.2#

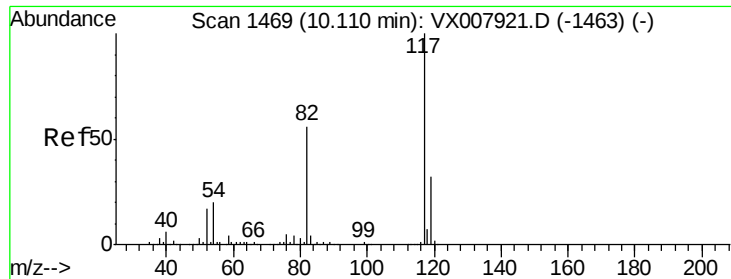


Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V

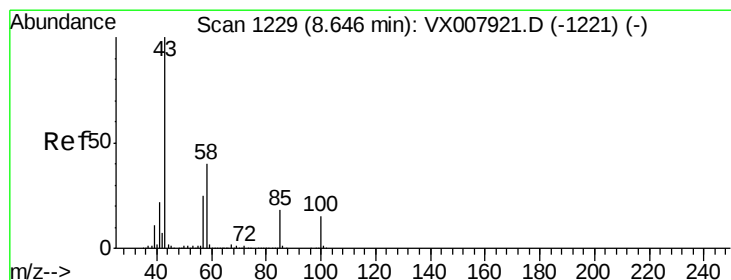
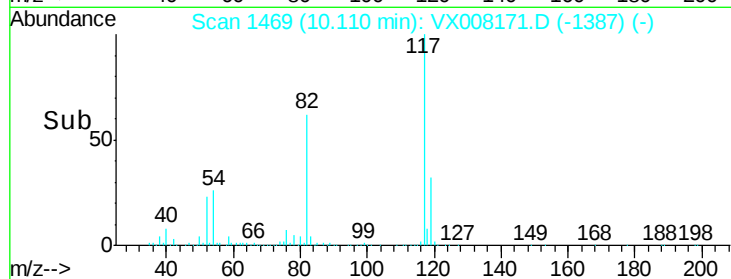
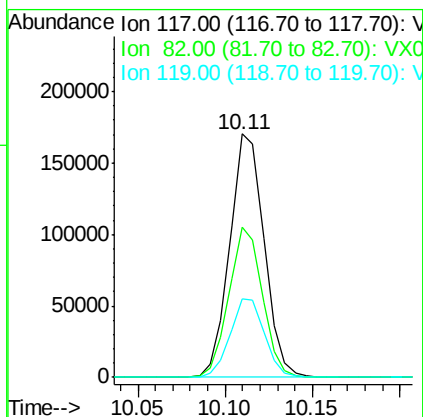
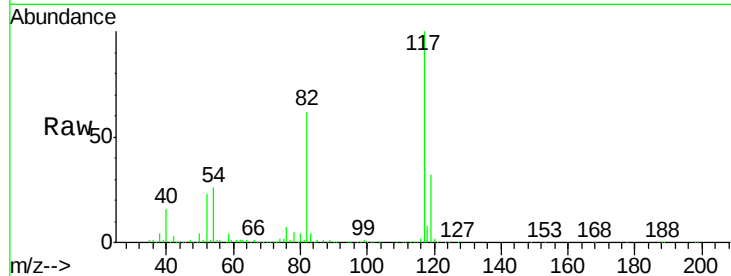




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX008171.D
Acq: 18 Mar 2019 17:45

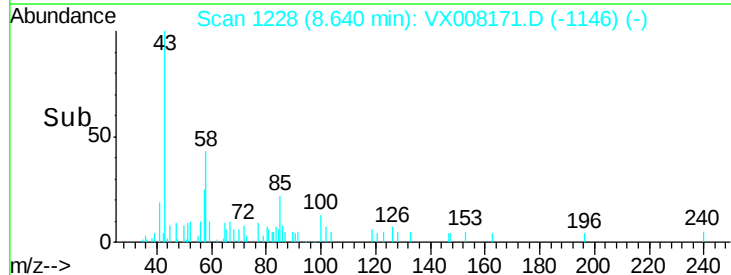
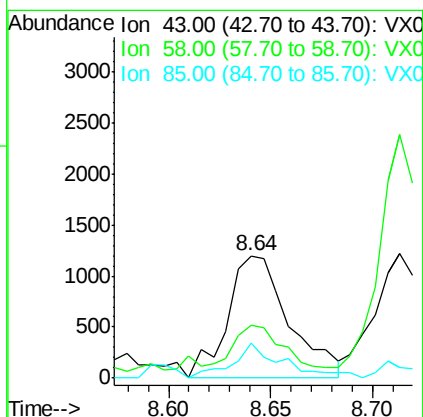
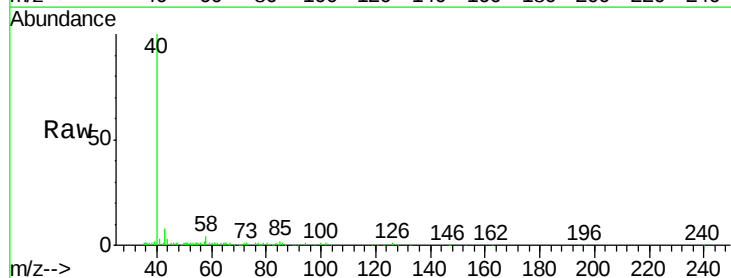
Instrument :
MSVOA_X
ClientSampleId :
MH-02

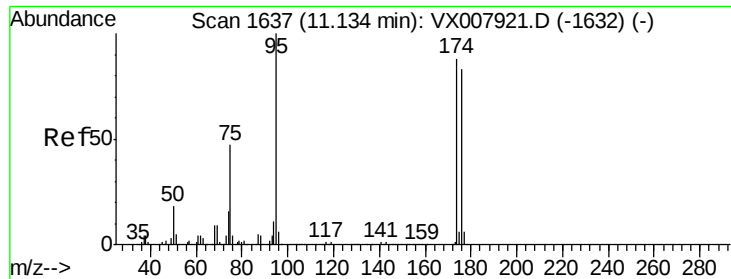
Tot Ion:117 Resp: 232846
Ion Ratio Lower Upper
117 100
82 60.1 40.4 60.6
119 32.4 25.8 38.6



#58
4-Methyl-2-Pentanone
Concen: 0.566 ug/l
RT: 8.64 min Scan# 1228
Delta R.T. -0.00 min
Lab File: VX008171.D
Acq: 18 Mar 2019 17:45

Tgt Ion: 43 Resp: 2519
Ion Ratio Lower Upper
43 100
58 32.7 31.4 47.0
85 16.1 15.0 22.6

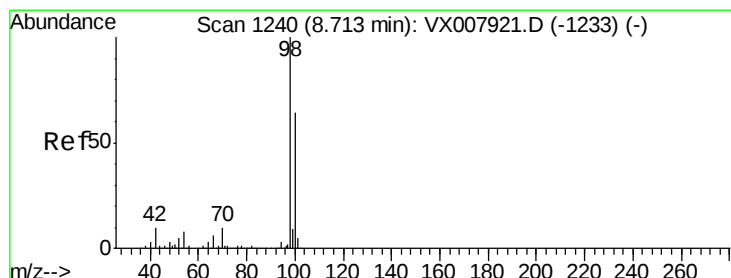
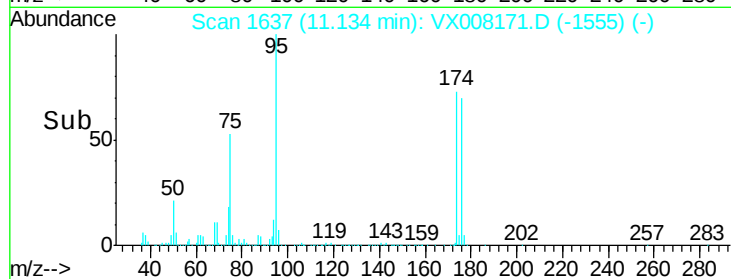
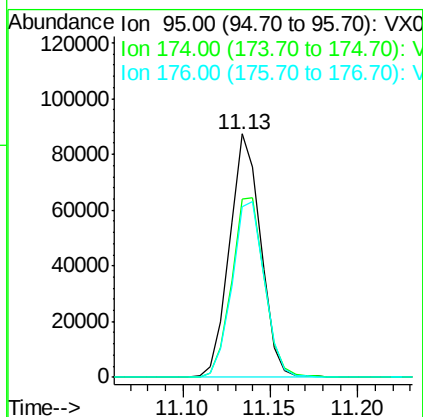
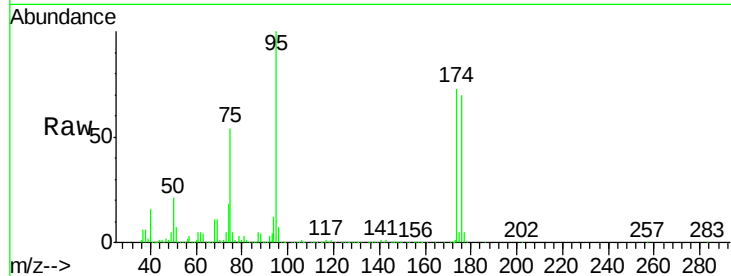




#60
4-Bromofluorobenzene
Concen: 27.888 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX008171.D
Acq: 18 Mar 2019 17:45

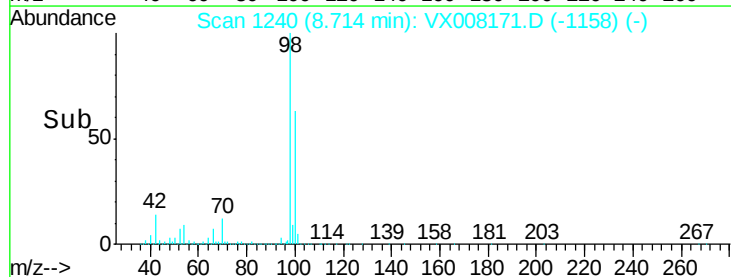
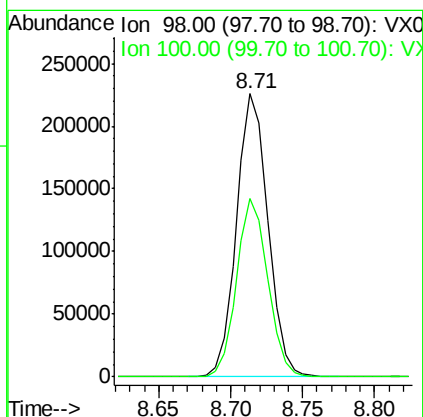
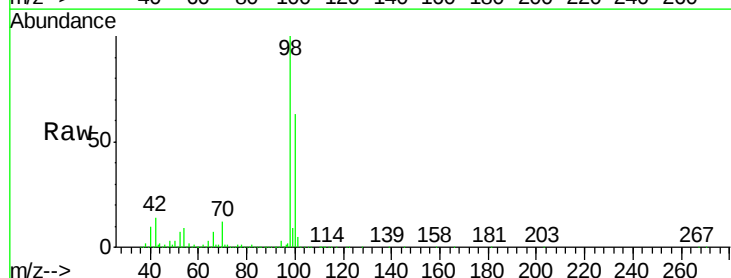
Instrument :
MSVOA_X
ClientSampleId :
MH-02

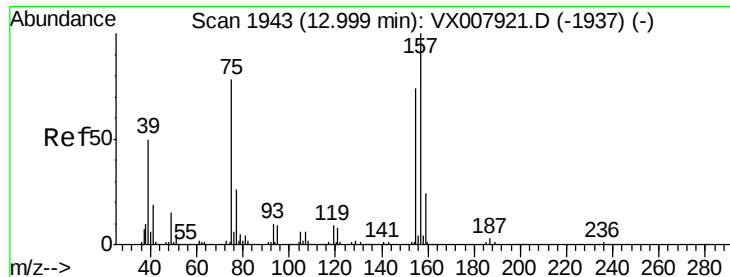
Tot Ion: 95 Resp: 108376
Ion Ratio Lower Upper
95 100
174 77.6 74.9 112.3
176 75.2 70.7 106.1



#63
Toluene-d8
Concen: 30.283 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX008171.D
Acq: 18 Mar 2019 17:45

Tgt Ion: 98 Resp: 342605
Ion Ratio Lower Upper
98 100
100 62.7 50.9 76.3





#88

1,2-Dibromo-3-Chloropropane

Concen: 0.301 ug/l

RT: 13.01 min Scan# 1945

Delta R.T. 0.01 min

Lab File: VX008171.D

Acq: 18 Mar 2019 17:45

Instrument :

MSVOA_X

ClientSampleID :

MH-02

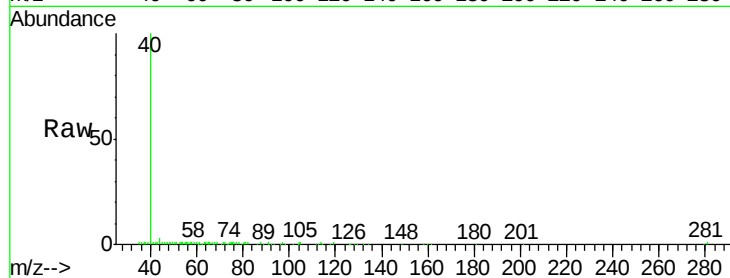
Tot Ion: 75 Resp: 263

Ion Ratio Lower Upper

75 100

155 0.0 81.0 121.6#

157 0.0 103.2 154.8#



Abundance Ion 75.00 (74.70 to 75.70): VX008171.D (-1861) (-)

Ion 155.00 (154.70 to 155.70): VX008171.D (-1861) (-)

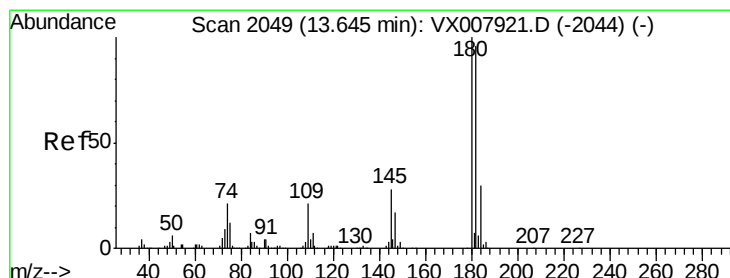
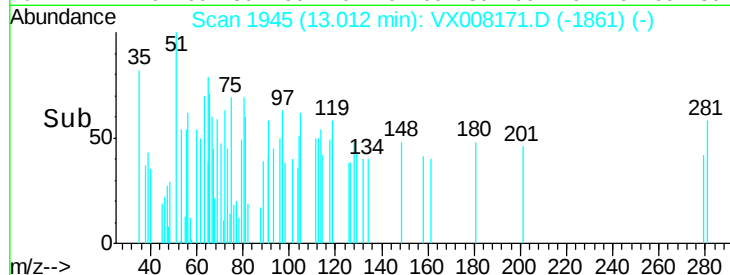
Ion 157.00 (156.70 to 157.70): VX008171.D (-1861) (-)

Time-->

13.01

13.02

13.04



#89

1,2,4-Trichlorobenzene

Concen: 0.301 ug/l

RT: 13.65 min Scan# 2049

Delta R.T. 0.00 min

Lab File: VX008171.D

Acq: 18 Mar 2019 17:45

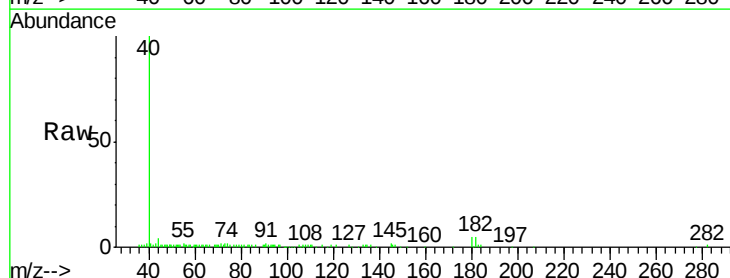
Tgt Ion: 180 Resp: 933

Ion Ratio Lower Upper

180 100

182 92.6 75.6 113.4

145 40.7 23.0 34.6#



Abundance Ion 180.00 (179.70 to 180.70): VX008171.D (-1967) (-)

Ion 182.00 (181.70 to 182.70): VX008171.D (-1967) (-)

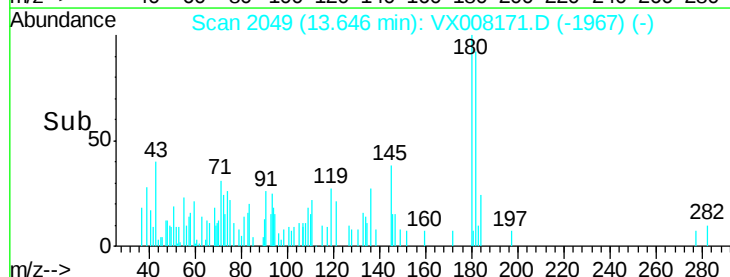
Ion 145.00 (144.70 to 145.70): VX008171.D (-1967) (-)

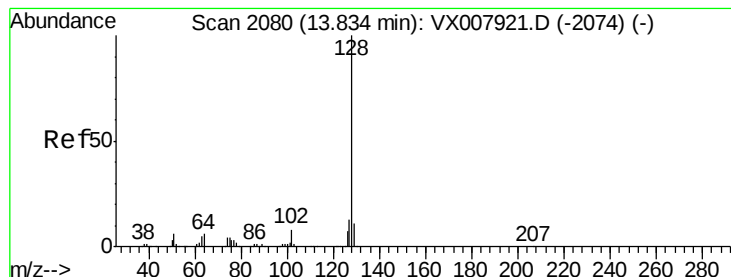
Time-->

13.65

13.66

13.67





#91

Naphthalene

Concen: 0.248 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX008171.D

Acq: 18 Mar 2019 17:45

Instrument :

MSVOA_X

ClientSampleId :

MH-02

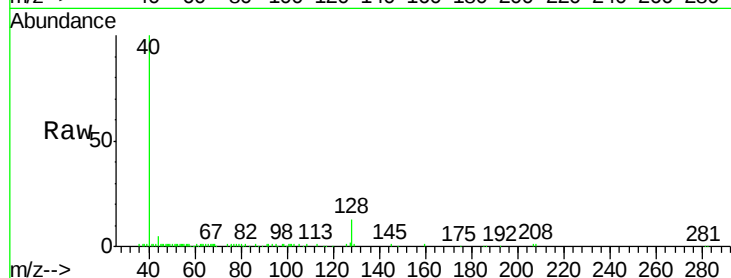
Tot Ion:128 Resp: 2488

Ion Ratio Lower Upper

128 100

127 15.6 10.5 15.7

129 14.0 8.9 13.3#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

