

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031819\
 Data File : VX008173.D
 Acq On : 18 Mar 2019 18:34
 Operator : JC/SP
 Sample : K1909-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 93-94

Quant Time: Mar 19 02:42:35 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	44762	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	248764	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	208877	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	116492	31.29	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	104.30%
60) 4-Bromofluorobenzene	11.13	95	95829	27.49	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	91.63%
63) Toluene-d8	8.71	98	305689	30.12	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.40%

Target Compounds

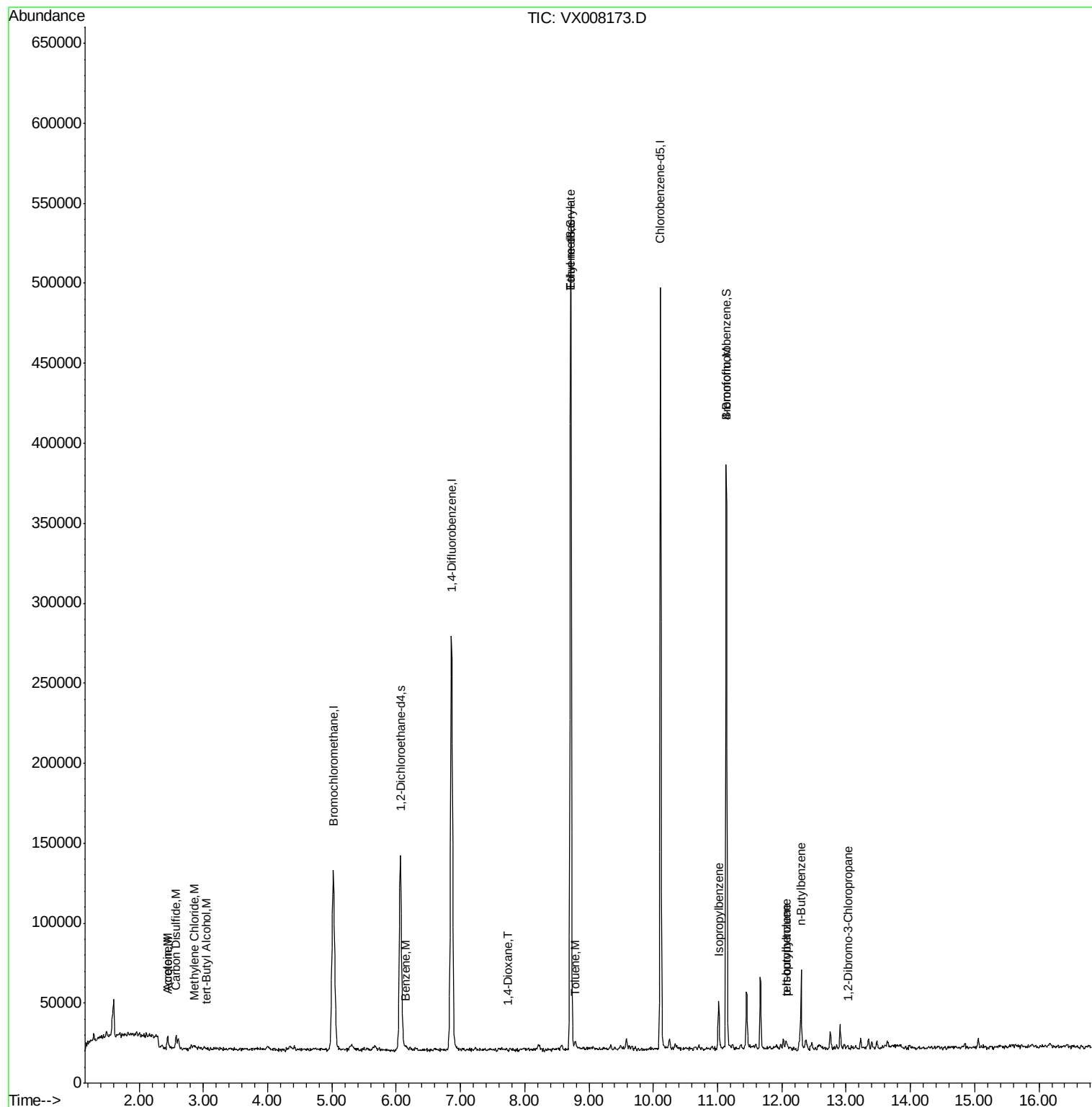
					Ovalue
13) Acrolein	2.43	56	133	0.251 ug/l	83
15) Acetone	2.45	58	2165	4.411 ug/l	93
16) Carbon Disulfide	2.57	76	10086	1.504 ug/l	97
18) Methylene Chloride	2.86	84	1064	0.434 ug/l #	90
23) tert-Butyl Alcohol	3.04	59	1568	2.786 ug/l #	95
34) Benzene	6.15	78	2932	0.296 ug/l #	78
45) 1,4-Dioxane	7.74	88	64	1.073 ug/l #	1
51) Ethyl methacrylate	8.72	69	1317	0.343 ug/l	70
56) Bromoform	11.13	173	613	0.372 ug/l #	44
62) Toluene	8.79	91	2302	0.233 ug/l	85
70) Isopropylbenzene	11.02	105	13922	1.378 ug/l	99
79) tert-butylbenzene	12.06	119	1915	0.225 ug/l	83
82) p-Isopropyltoluene	12.06	119	1915	0.225 ug/l	83
85) n-Butylbenzene	12.30	91	3098	0.386 ug/l	56
88) 1,2-Dibromo-3-Chloropropan	13.02	75	171	0.218 ug/l #	18

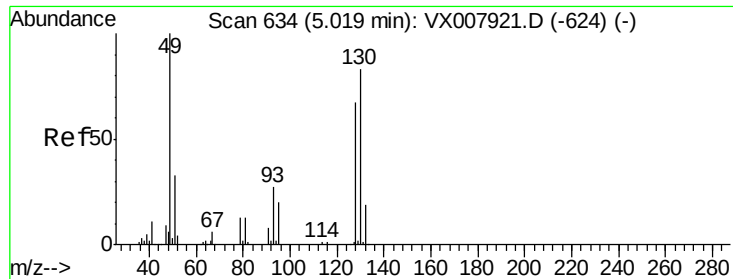
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :
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Quant Time: Mar 19 02:42:35 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: VX008173.D

Acq: 18 Mar 2019 18:34

Instrument :

MSVOA_X

ClientSampled :

93-94

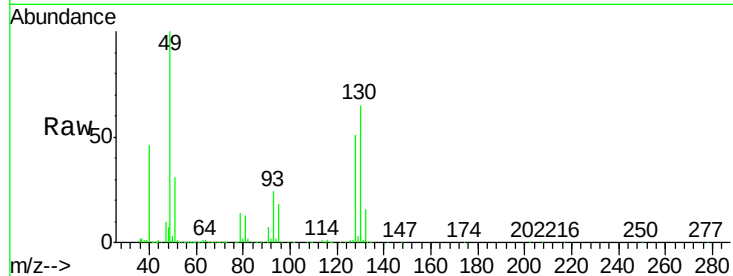
Tot Ion:128 Resp: 44762

Ion Ratio Lower Upper

128 100

49 199.7 0.0 350.8

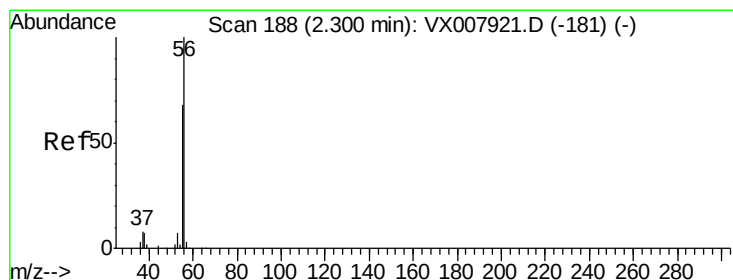
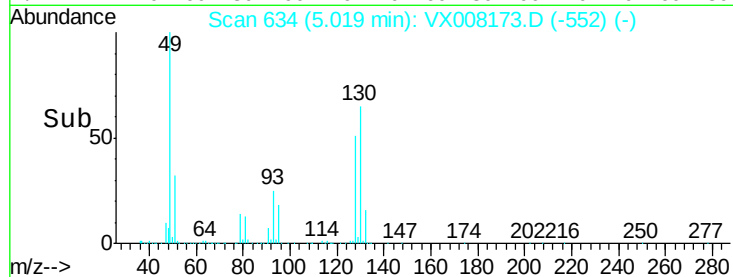
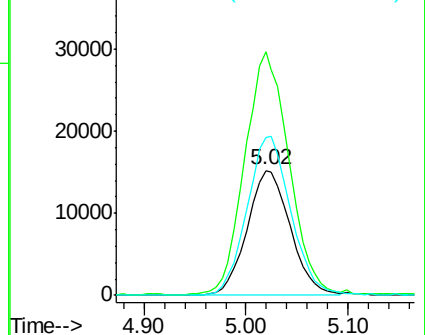
130 129.4 0.0 325.8



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



#13

Acrolein

Concen: 0.251 ug/l

RT: 2.43 min Scan# 210

Delta R.T. 0.14 min

Lab File: VX008173.D

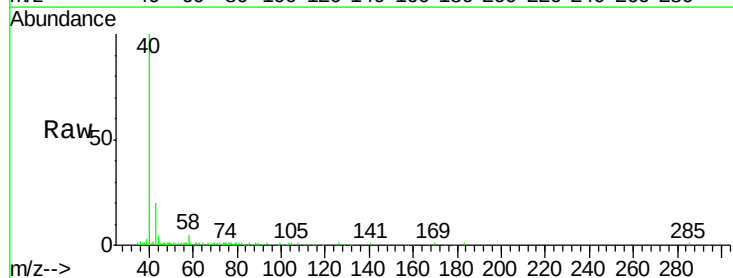
Acq: 18 Mar 2019 18:34

Tgt Ion: 56 Resp: 133

Ion Ratio Lower Upper

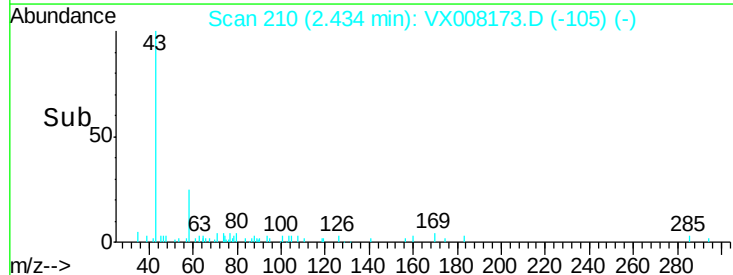
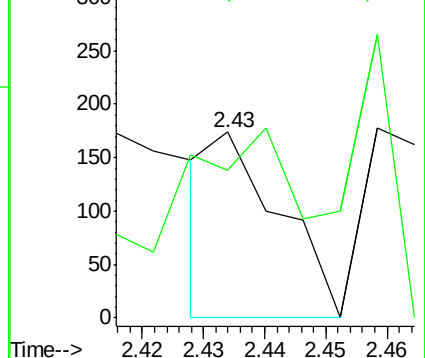
56 100

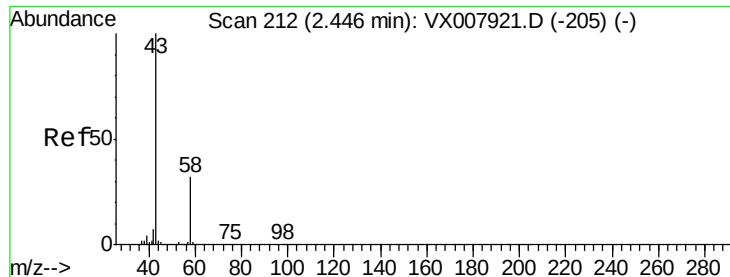
55 87.2 58.6 87.8



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#15

Acetone

Concen: 4.411 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX008173.D

Acq: 18 Mar 2019 18:34

Instrument :

MSVOA_X

ClientSampled :

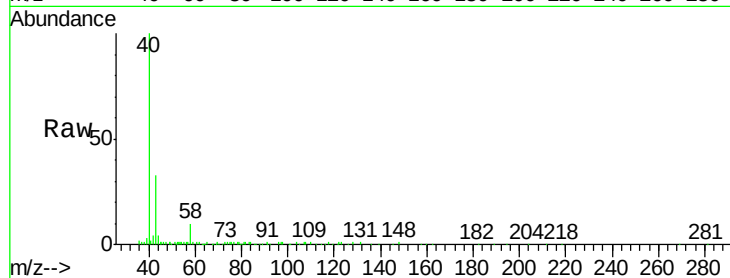
93-94

Tot Ion: 58 Resp: 2165

Ion Ratio Lower Upper

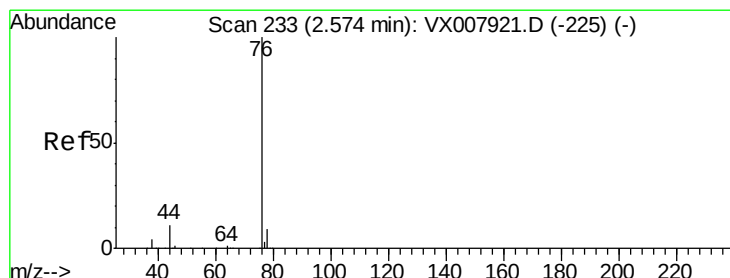
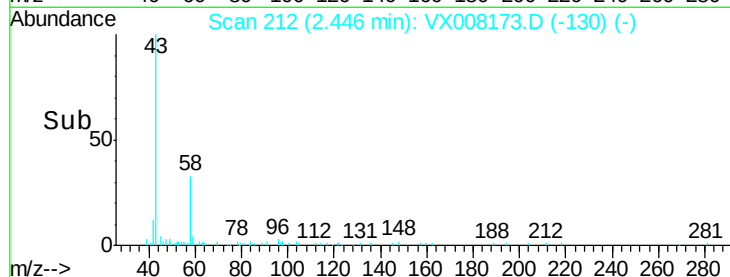
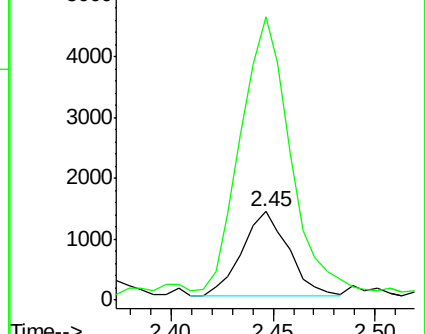
58 100

43 327.1 249.8 374.6



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



#16

Carbon Disulfide

Concen: 1.504 ug/l

RT: 2.57 min Scan# 233

Delta R.T. -0.00 min

Lab File: VX008173.D

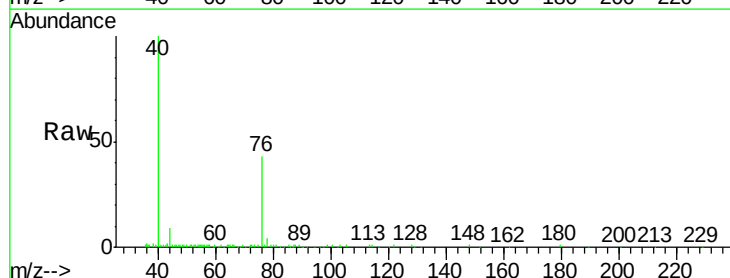
Acq: 18 Mar 2019 18:34

Tgt Ion: 76 Resp: 10086

Ion Ratio Lower Upper

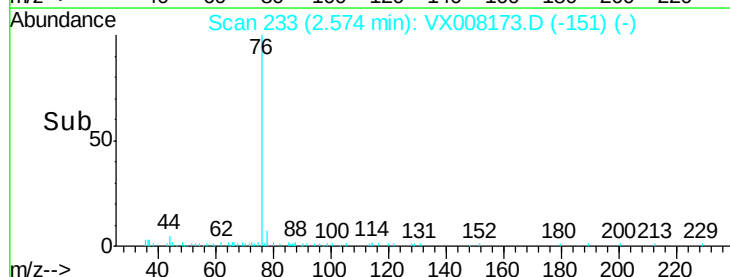
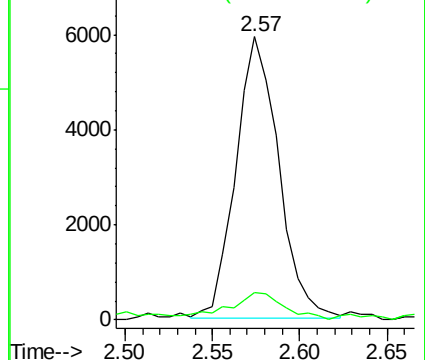
76 100

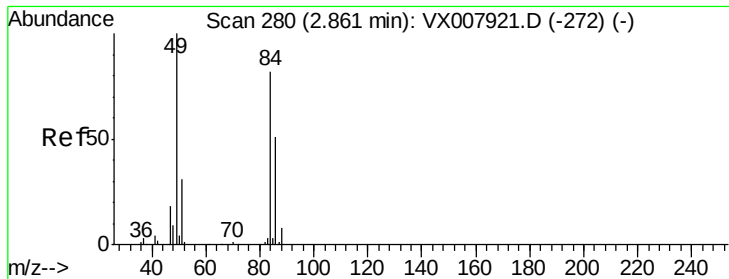
78 8.2 7.5 11.3



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0

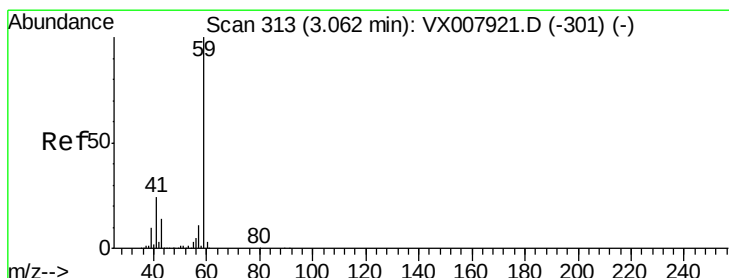
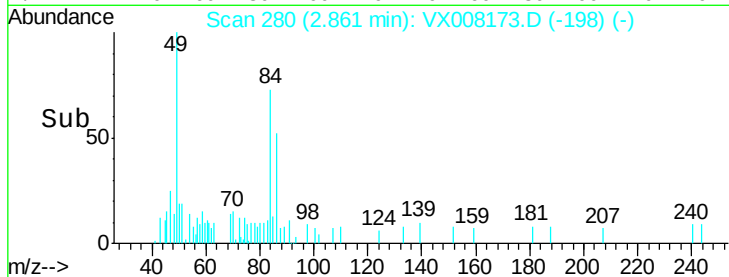
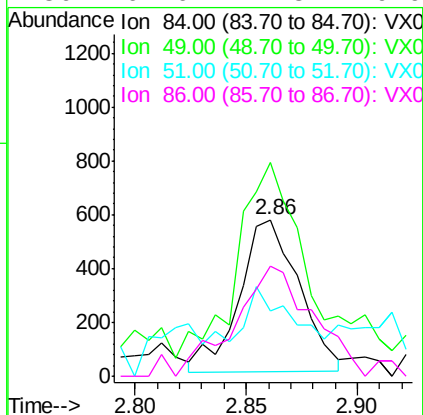
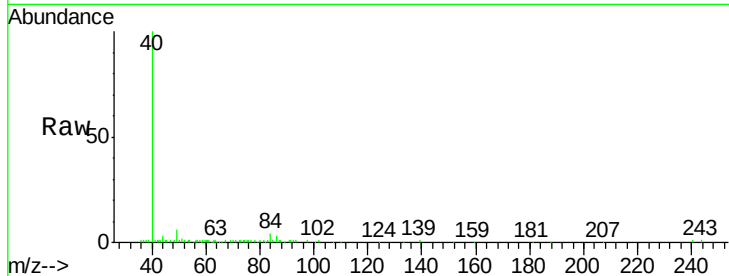




#18
Methylene Chloride
Concen: 0.434 ug/l
RT: 2.86 min Scan# 280
Delta R.T. -0.00 min
Lab File: VX008173.D
Acq: 18 Mar 2019 18:34

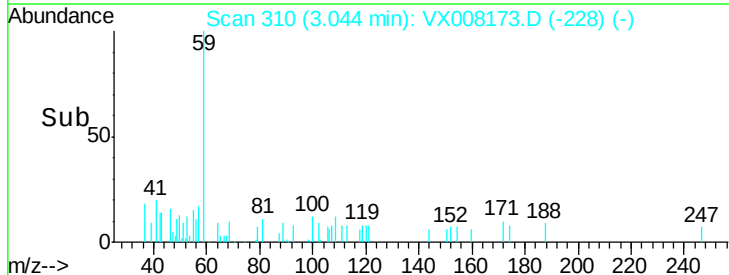
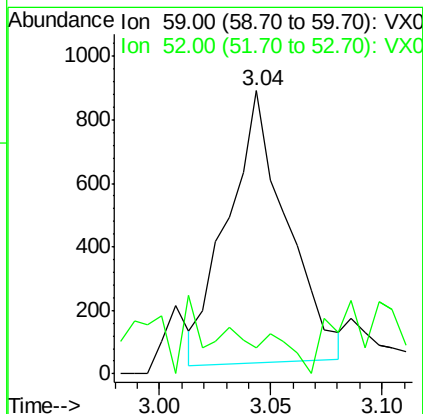
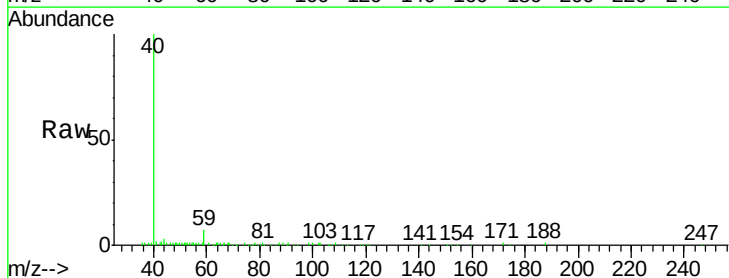
Instrument :
MSVOA_X
ClientSampled :
93-94

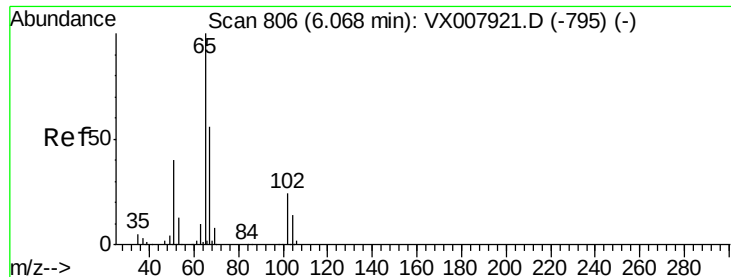
Tot Ion: 84 Resp: 1064
Ion Ratio Lower Upper
84 100
49 119.1 96.1 144.1
51 9.8 29.1 43.7#
86 64.6 47.3 70.9



#23
tert-Butyl Alcohol
Concen: 2.786 ug/l
RT: 3.04 min Scan# 310
Delta R.T. -0.00 min
Lab File: VX008173.D
Acq: 18 Mar 2019 18:34

Tgt Ion: 59 Resp: 1568
Ion Ratio Lower Upper
59 100
52 7.0 0.2 0.2#





#27

1,2-Dichloroethane-d4

Concen: 31.286 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX008173.D

Acq: 18 Mar 2019 18:34

Instrument :

MSVOA_X

ClientSampleId :

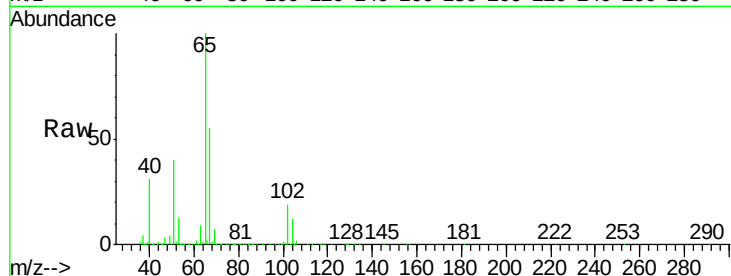
93-94

Tot Ion: 65 Resp: 116492

Ion Ratio Lower Upper

65 100

67 52.9 42.9 64.3

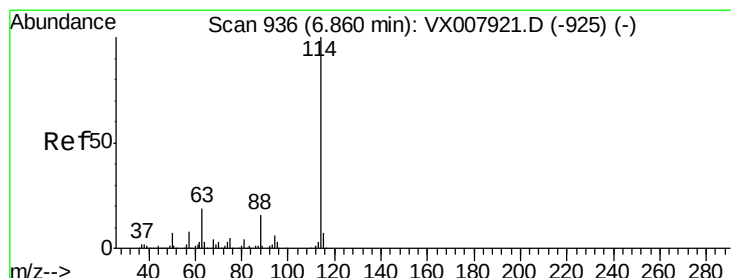
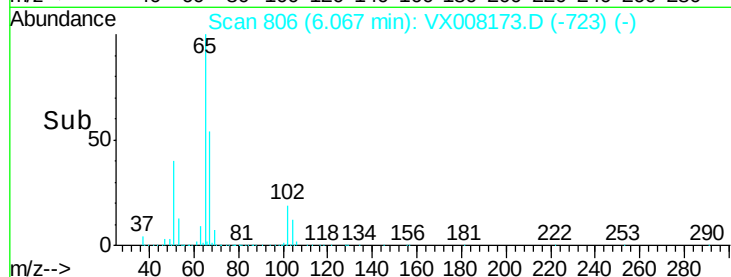


Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

6.07

Time-->



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX008173.D

Acq: 18 Mar 2019 18:34

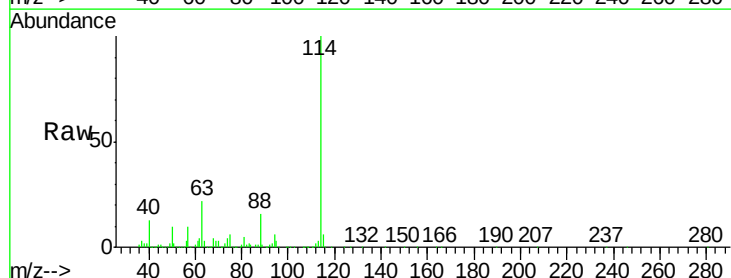
Tgt Ion: 114 Resp: 248764

Ion Ratio Lower Upper

114 100

63 23.0 14.2 21.4#

88 16.4 11.9 17.9



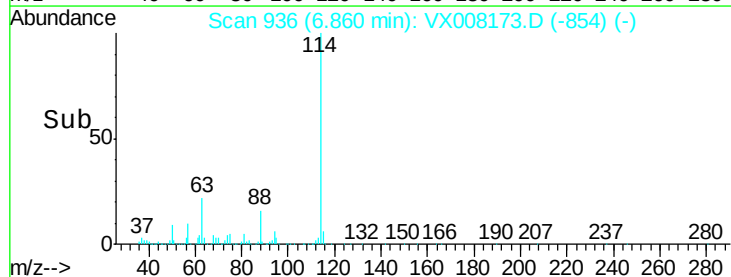
Abundance Ion 114.00 (113.70 to 114.70): V

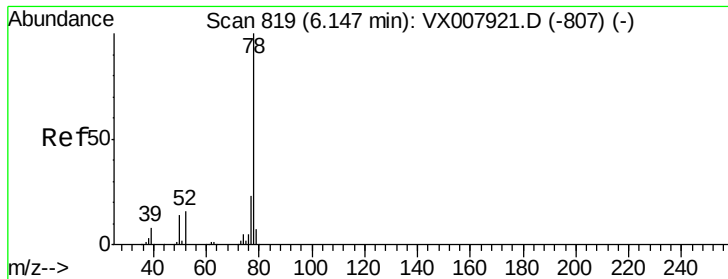
Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0

6.86

Time-->





#34

Benzene

Concen: 0.296 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX008173.D

Acq: 18 Mar 2019 18:34

Instrument :

MSVOA_X

ClientSampleId :

93-94

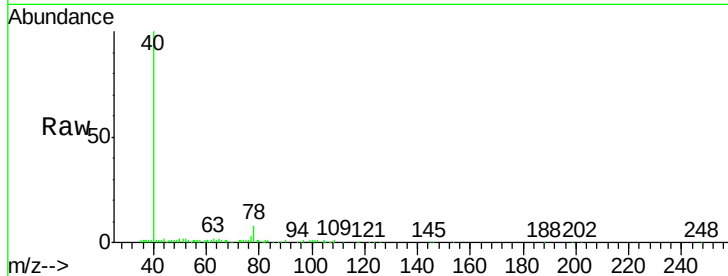
Tot Ion: 78 Resp: 2932

Ion Ratio Lower Upper

78 100

77 32.5 19.1 28.7#

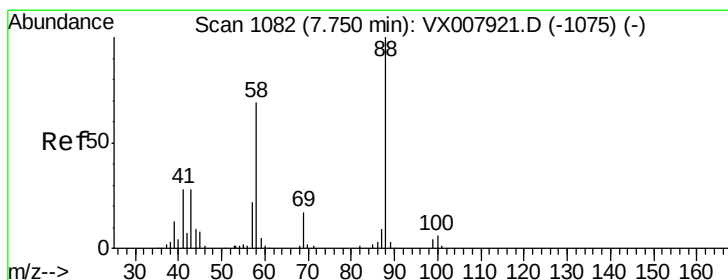
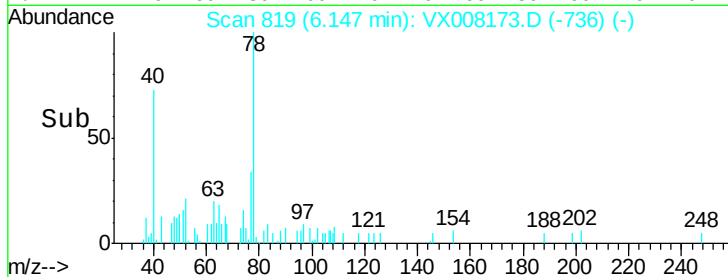
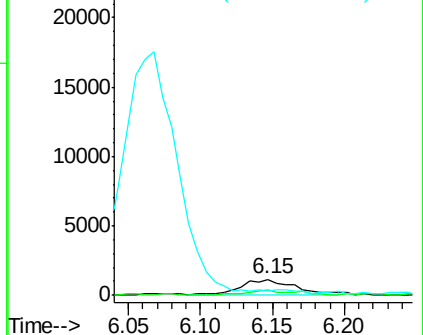
51 1.0 10.8 16.2#



Abundance Ion 78.10 (77.80 to 78.80): VX0

Ion 77.00 (76.70 to 77.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#45

1,4-Dioxane

Concen: 1.073 ug/l

RT: 7.74 min Scan# 1080

Delta R.T. -0.00 min

Lab File: VX008173.D

Acq: 18 Mar 2019 18:34

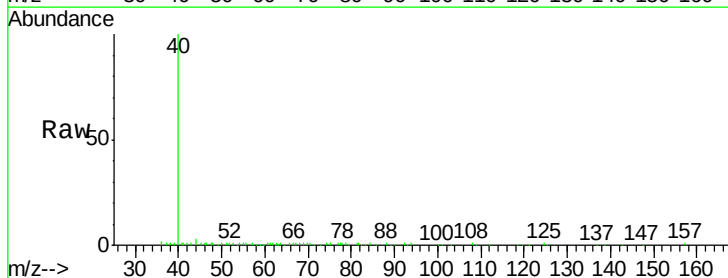
Tgt Ion: 88 Resp: 64

Ion Ratio Lower Upper

88 100

43 0.0 23.6 35.4#

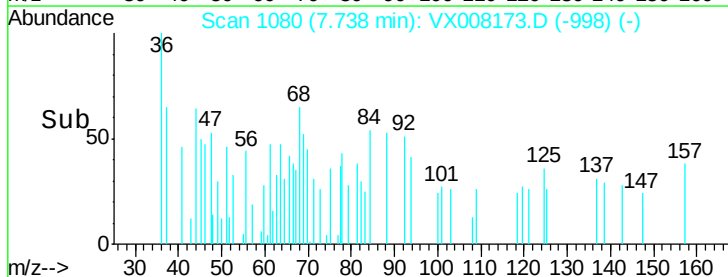
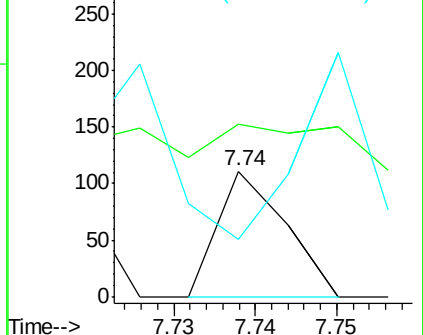
58 182.8 51.6 77.4#

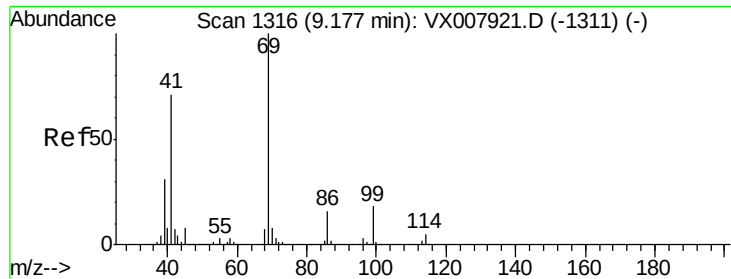


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

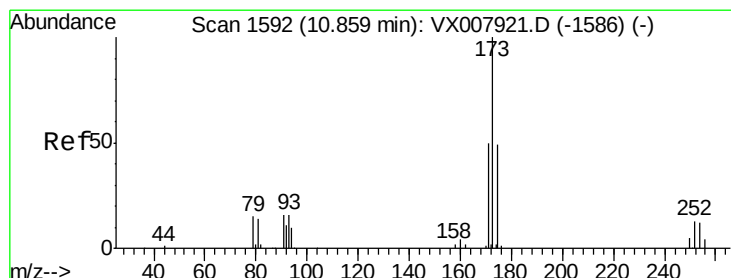
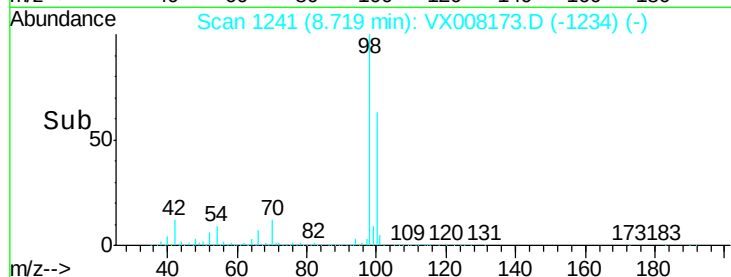
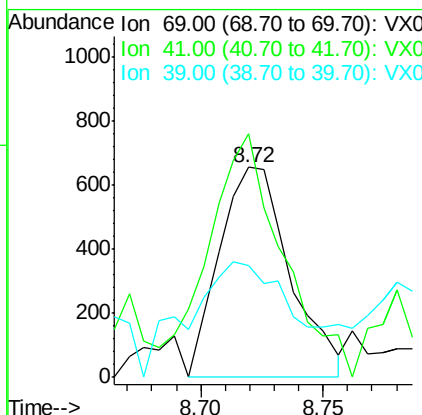
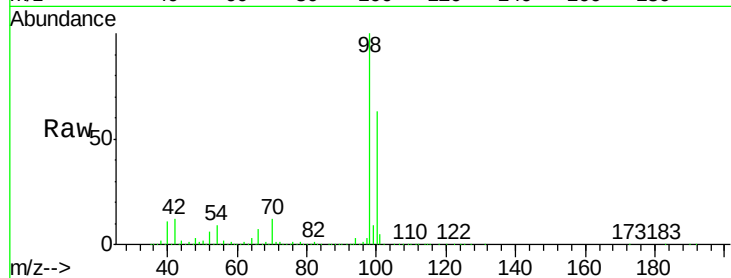




#51
Ethyl methacrylate
Concen: 0.343 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. -0.46 min
Lab File: VX008173.D
Acq: 18 Mar 2019 18:34

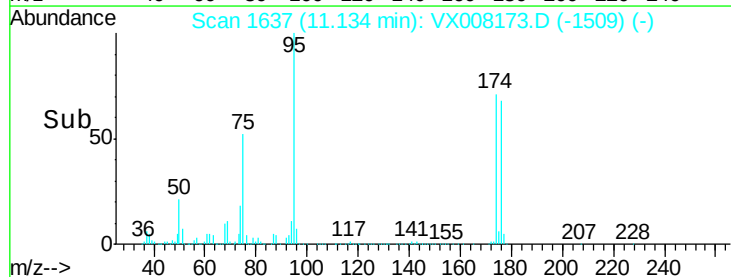
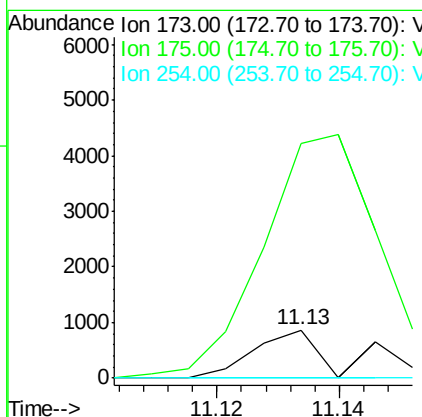
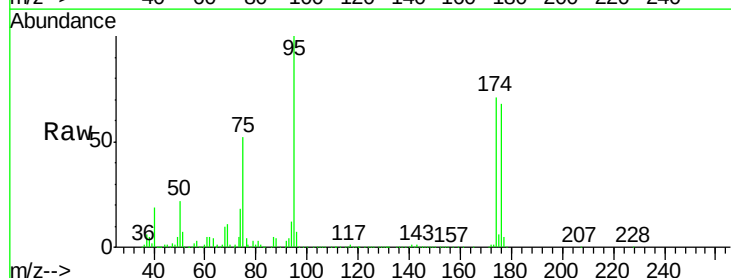
Instrument :
MSVOA_X
ClientSampled :
93-94

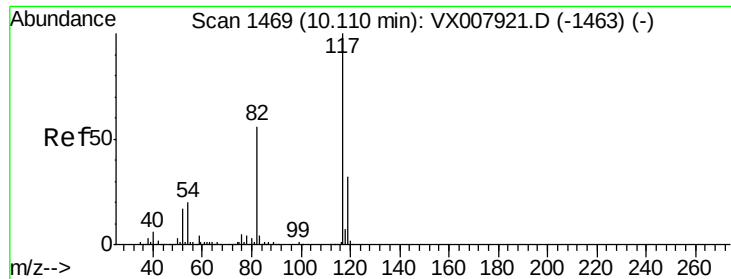
Tot Ion	Ratio	Lower	Upper
69	100		
41	96.0	32.1	96.5
39	30.8	18.8	56.3



#56
Bromoform
Concen: 0.372 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.28 min
Lab File: VX008173.D
Acq: 18 Mar 2019 18:34

Tgt Ion	Ratio	Lower	Upper
173	100		
175	6.2	38.5	57.7#
254	0.0	7.4	11.2#

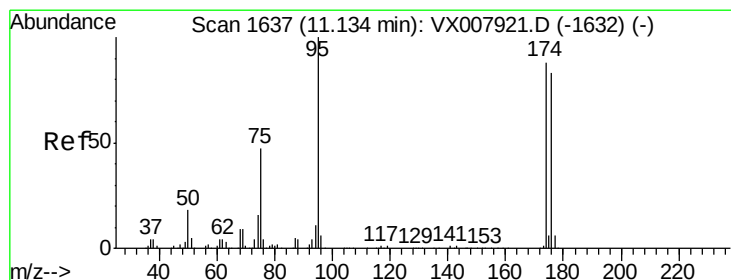
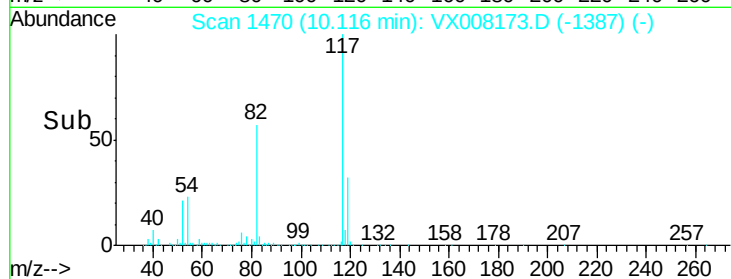
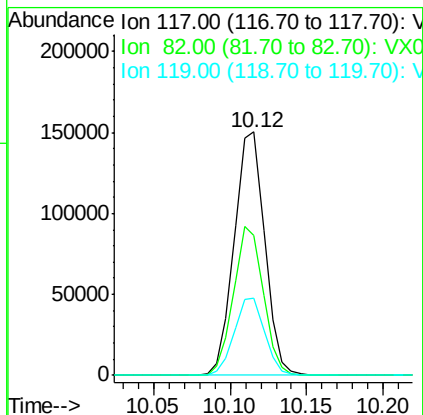
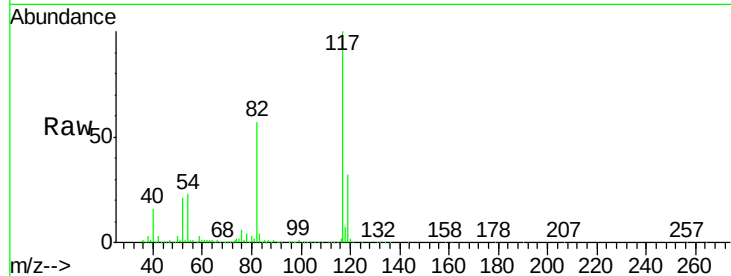




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX008173.D
Acq: 18 Mar 2019 18:34

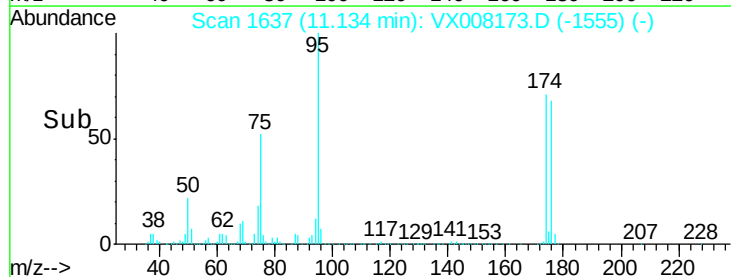
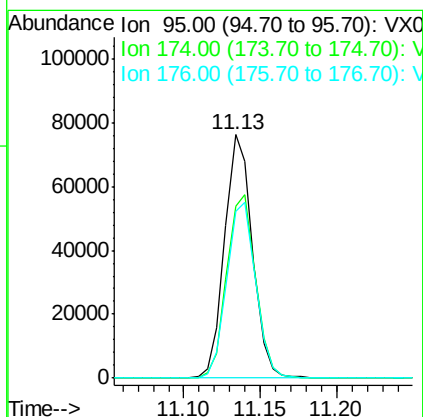
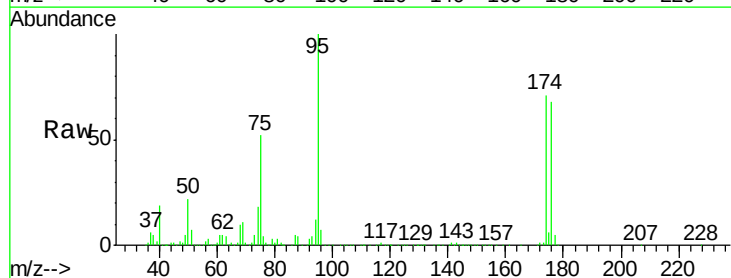
Instrument :
MSVOA_X
ClientSampleId :
93-94

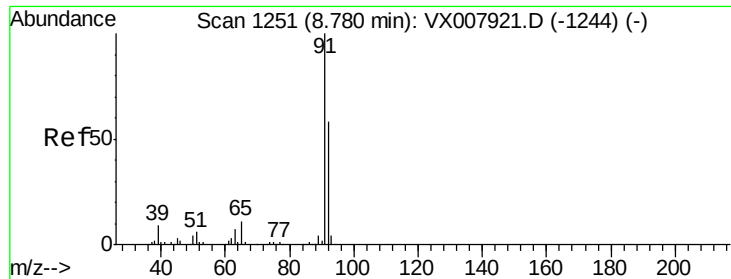
Tot Ion	Ratio	Lower	Upper
117	100		
82	59.6	40.4	60.6
119	31.8	25.8	38.6



#60
4-Bromofluorobenzene
Concen: 27.489 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX008173.D
Acq: 18 Mar 2019 18:34

Tgt Ion	Ratio	Lower	Upper
95	100		
174	78.8	74.9	112.3
176	75.6	70.7	106.1





#62

Toluene

Concen: 0.233 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.01 min

Lab File: VX008173.D

Acq: 18 Mar 2019 18:34

Instrument :

MSVOA_X

ClientSampled :

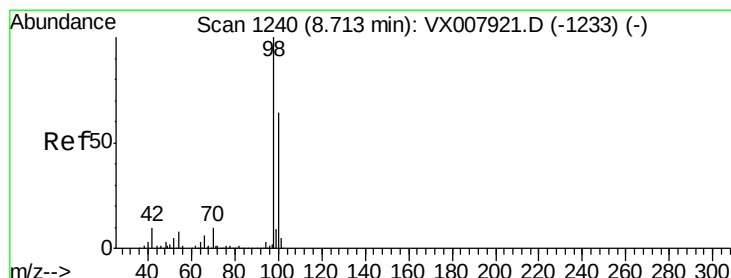
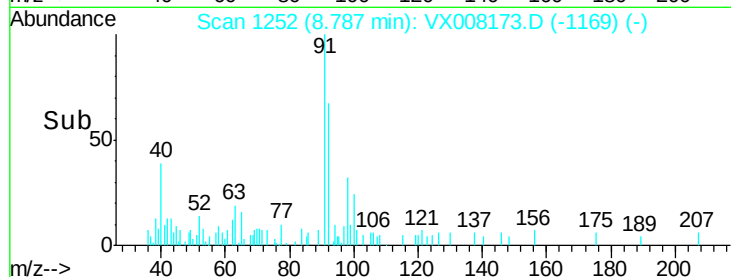
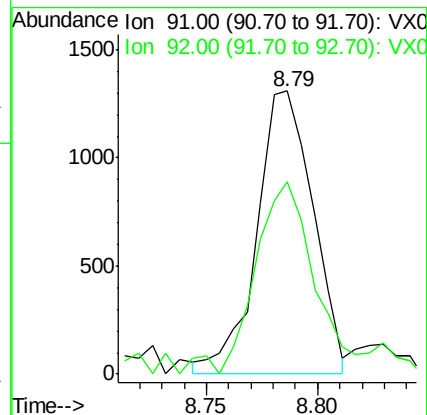
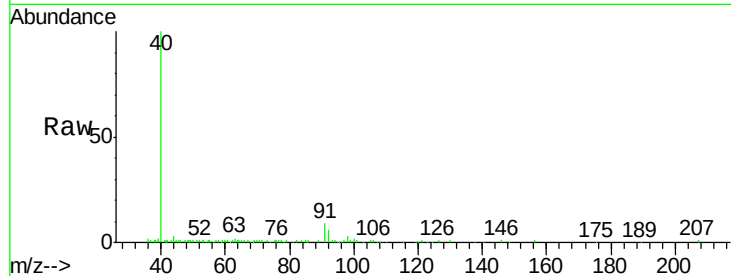
93-94

Tot Ion: 91 Resp: 2302

Ion Ratio Lower Upper

91 100

92 69.2 46.4 69.6



#63

Toluene-d8

Concen: 30.121 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008173.D

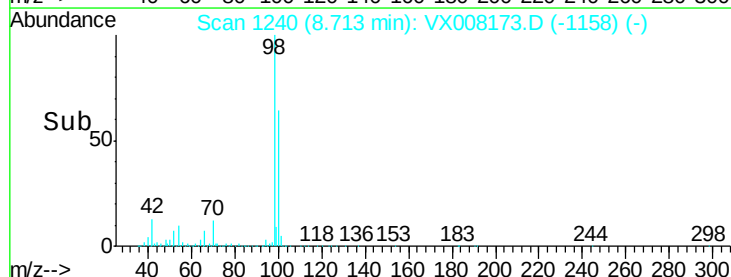
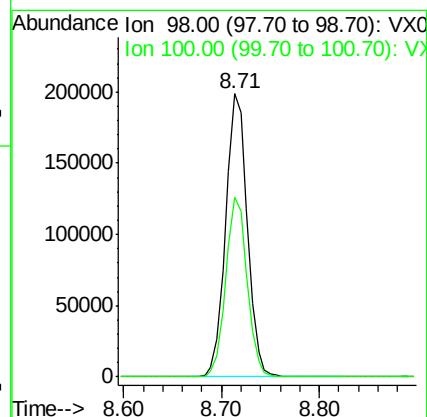
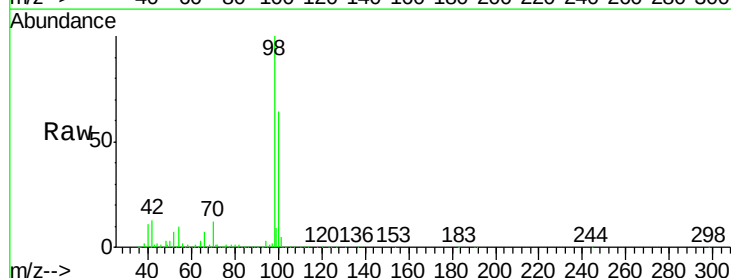
Acq: 18 Mar 2019 18:34

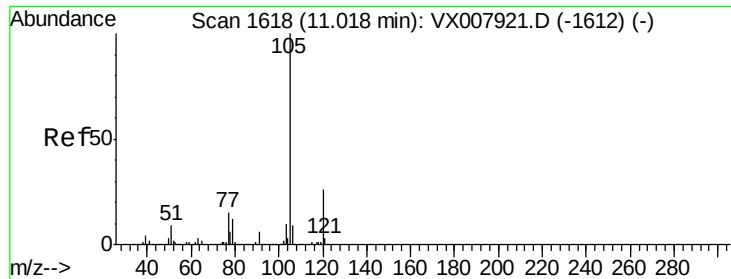
Tgt Ion: 98 Resp: 305689

Ion Ratio Lower Upper

98 100

100 62.3 50.9 76.3





#70

Isopropylbenzene

Concen: 1.378 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VX008173.D

Acq: 18 Mar 2019 18:34

Instrument :

MSVOA_X

ClientSampleId :

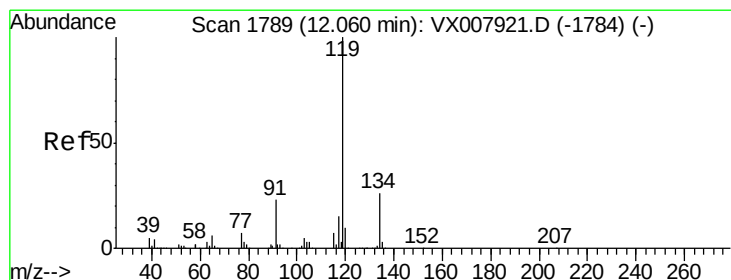
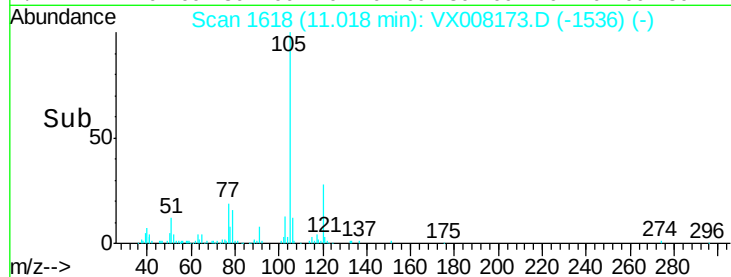
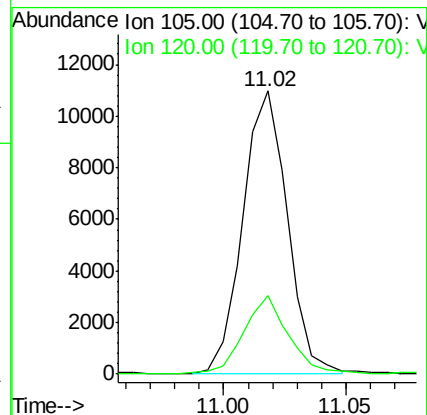
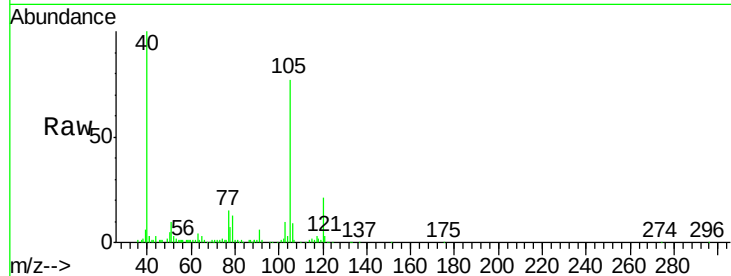
93-94

Tot Ion:105 Resp: 13922

Ion Ratio Lower Upper

105 100

120 28.0 19.8 36.8



#79

tert-butylbenzene

Concen: 0.225 ug/l

RT: 12.06 min Scan# 1789

Delta R.T. -0.00 min

Lab File: VX008173.D

Acq: 18 Mar 2019 18:34

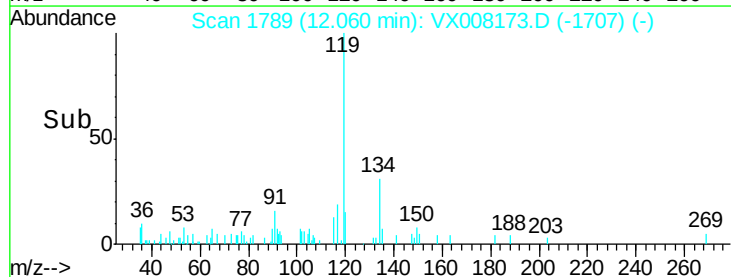
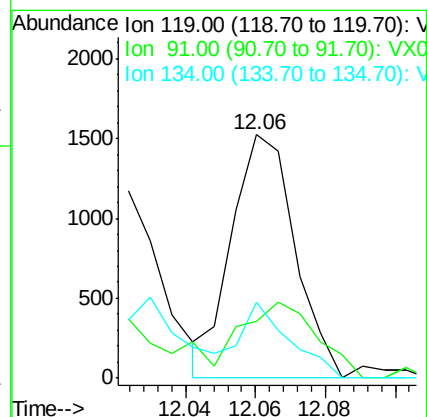
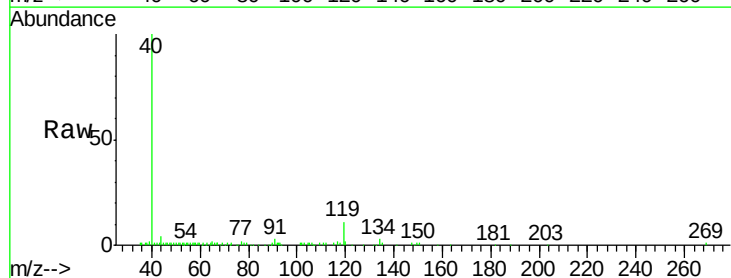
Tgt Ion:119 Resp: 1915

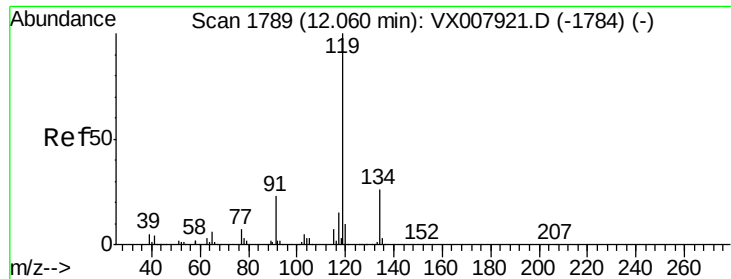
Ion Ratio Lower Upper

119 100

91 36.8 0.0 45.0

134 24.5 0.0 55.4

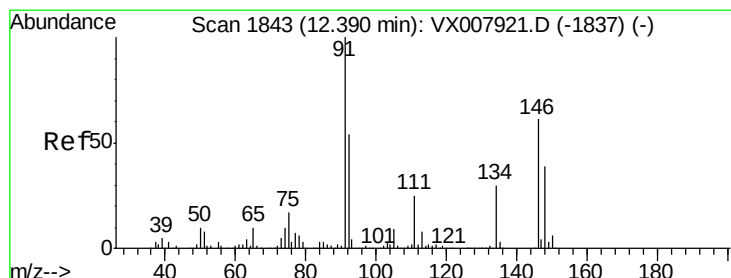
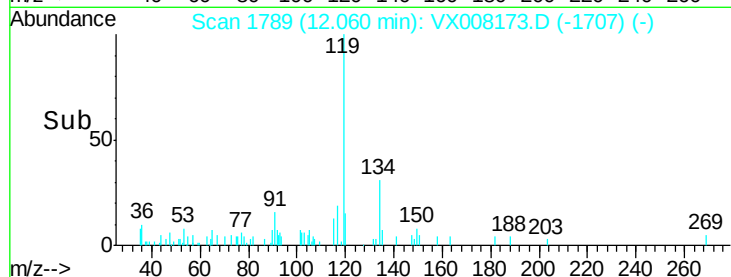
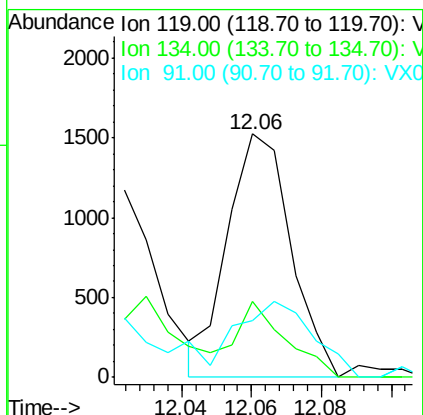
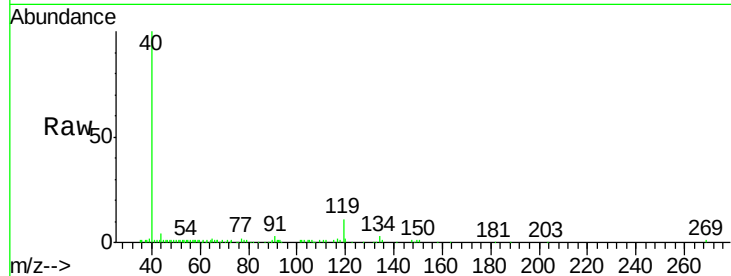




#82
 p-Isopropyltoluene
 Concen: 0.225 ug/l
 RT: 12.06 min Scan# 1789
 Delta R.T. -0.00 min
 Lab File: VX008173.D
 Acq: 18 Mar 2019 18:34

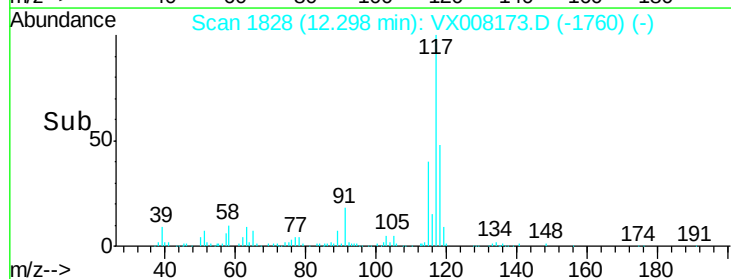
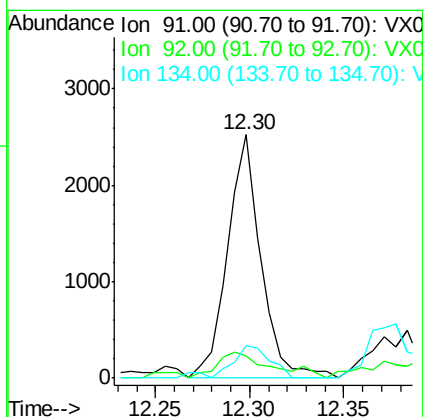
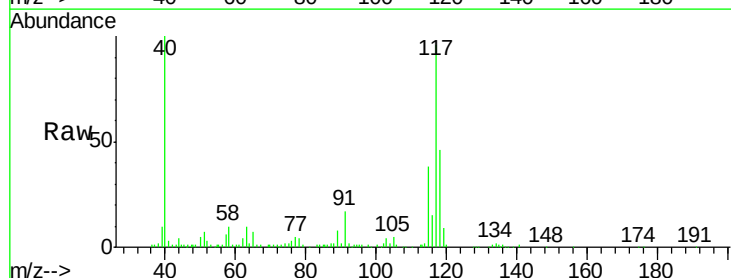
Instrument :
 MSVOA_X
 ClientSampled :
 93-94

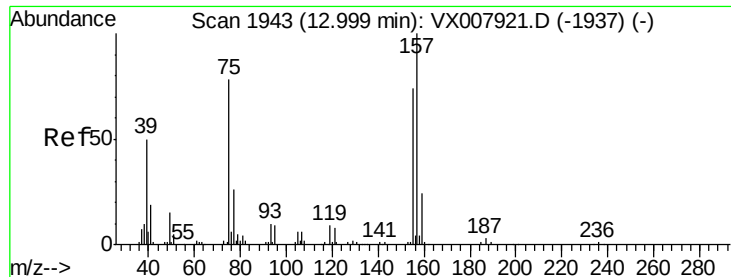
Tot Ion	Ratio	Lower	Upper
119	100		
134	24.5	0.0	55.4
91	36.8	0.0	45.0



#85
 n-Butylbenzene
 Concen: 0.386 ug/l
 RT: 12.30 min Scan# 1828
 Delta R.T. -0.09 min
 Lab File: VX008173.D
 Acq: 18 Mar 2019 18:34

Tgt Ion	Ratio	Lower	Upper
91	100		
92	14.8	0.0	105.2
134	14.5	0.0	56.4





#88

1,2-Dibromo-3-Chloropropane

Concen: 0.218 ug/l

RT: 13.02 min Scan# 1946

Delta R.T. 0.02 min

Lab File: VX008173.D

Acq: 18 Mar 2019 18:34

Instrument :

MSVOA_X

ClientSampleId :

93-94

Tot Ion: 75 Resp: 171

Ion Ratio Lower Upper

75 100

155 56.7 81.0 121.6#

157 0.0 103.2 154.8#

