

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032719\
 Data File : VX008500.D
 Acq On : 27 Mar 2019 22:03
 Operator : JC/SP
 Sample : K2103-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-C02-SETTLED-3H-B

Quant Time: Mar 28 02:11:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032719W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Mar 27 12:01:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	35214	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	202504	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	172742	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	88367	30.00	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.00%
60) 4-Bromofluorobenzene	11.13	95	84612	28.11	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.70%
63) Toluene-d8	8.71	98	252511	30.80	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.67%

Target Compounds

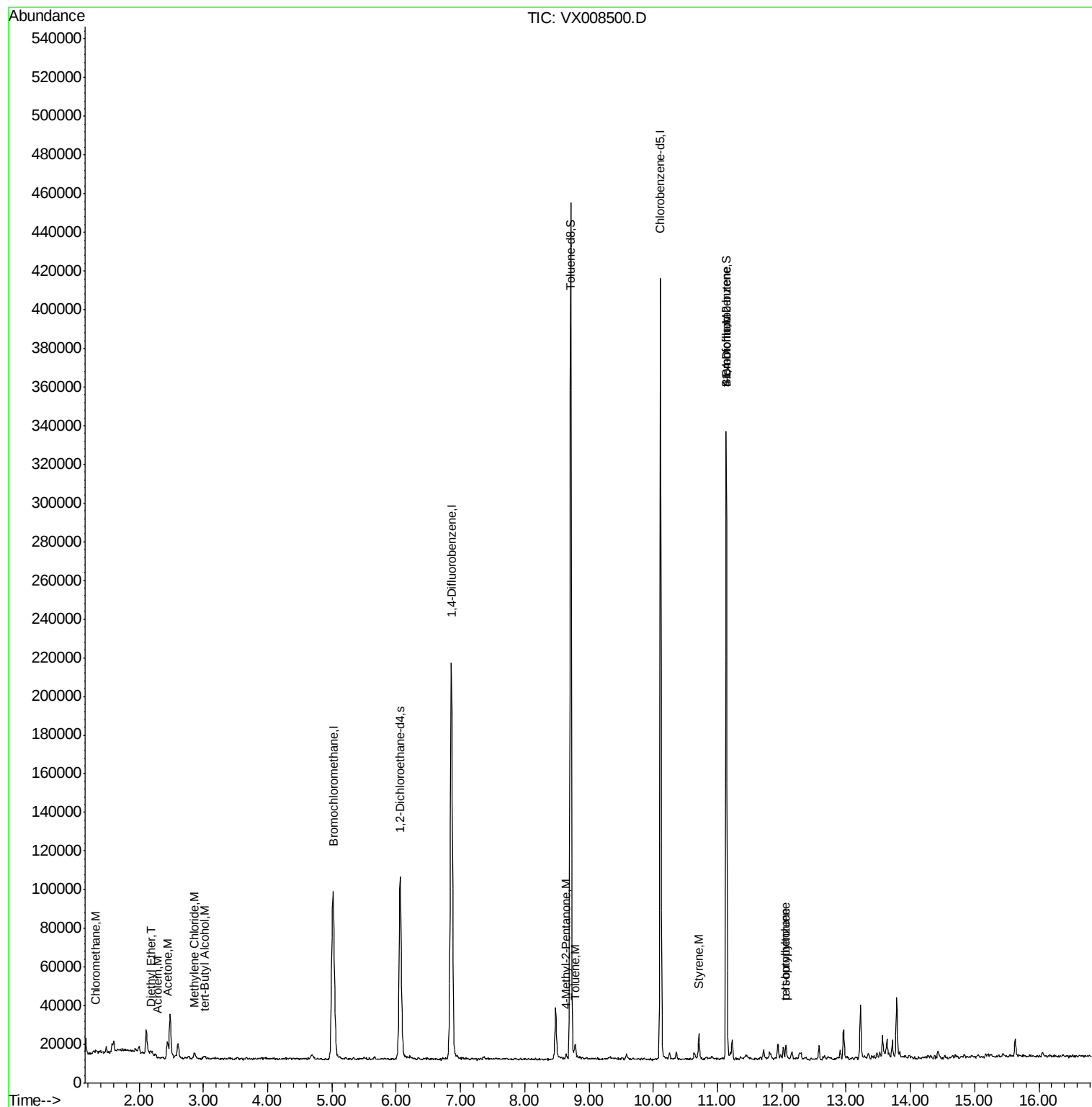
					Ovalue	
3) Chloromethane	1.32	50	720	0.228	ug/l	94
8) Diethyl Ether	2.19	74	337	0.202	ug/l	55
13) Acrolein	2.29	56	123	0.237	ug/l #	32
15) Acetone	2.44	58	2962	5.748	ug/l	96
18) Methylene Chloride	2.86	84	1427	0.535	ug/l	87
23) tert-Butyl Alcohol	3.02	59	1095	1.623	ug/l #	86
56) Bromoform	11.13	173	788	0.432	ug/l #	1
58) 4-Methyl-2-Pentanone	8.64	43	1747	0.383	ug/l	91
62) Toluene	8.79	91	3840	0.367	ug/l	97
69) Styrene	10.71	104	4945	0.686	ug/l	96
77) t-1,4-Dichloro-2-butene	11.13	75	43500	32.858	ug/l #	5
79) tert-butylbenzene	12.06	119	2687	0.281	ug/l	89
82) p-Isopropyltoluene	12.06	119	2687	0.281	ug/l	89

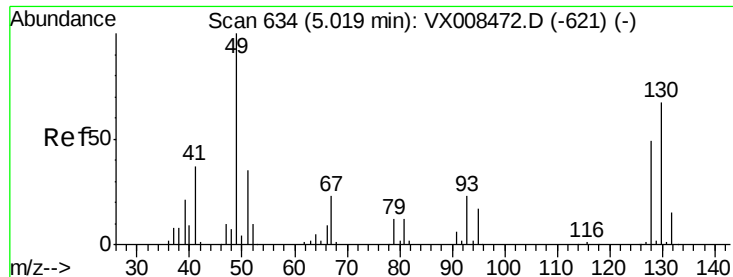
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX032719\
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ClientSampleId :
MH-C02-SETTLED-3H-B

Quant Time: Mar 28 02:11:56 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X032719W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Mar 27 12:01:15 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.01 min Scan# 633

Delta R.T. -0.01 min

Lab File: VX008500.D

Acq: 27 Mar 2019 22:03

Instrument :

MSVOA_X

ClientSampleId :

MH-C02-SETTLED-3H-B

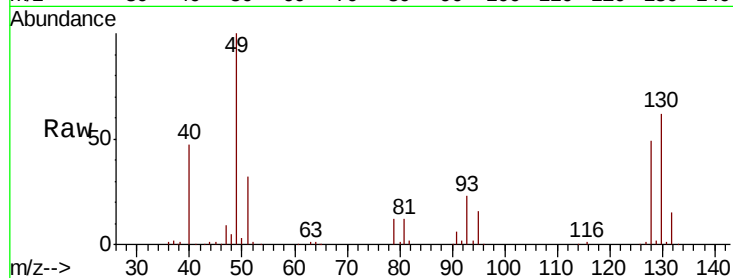
Tot Ion:128 Resp: 35214

Ion Ratio Lower Upper

128 100

49 202.2 0.0 350.8

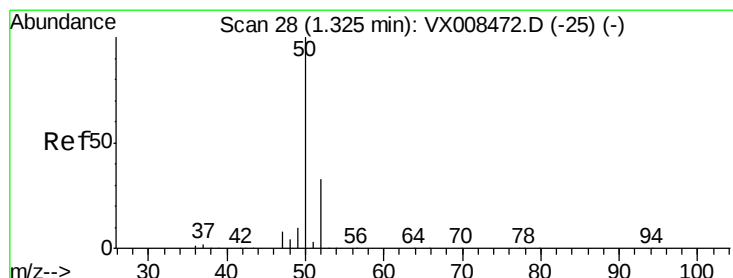
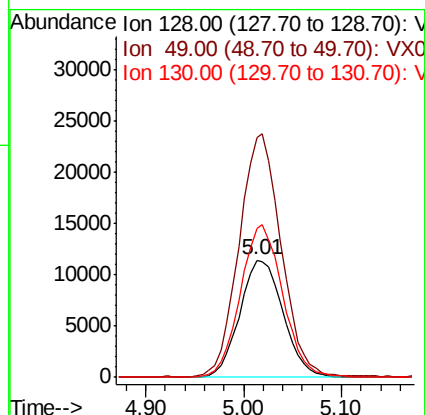
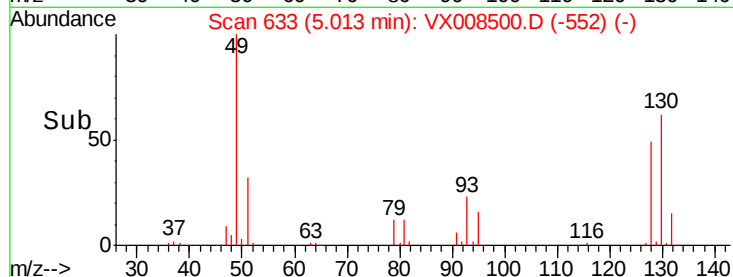
130 127.6 0.0 325.8



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



#3

Chloromethane

Concen: 0.228 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008500.D

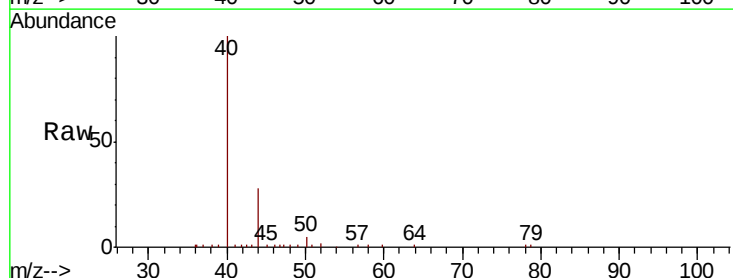
Acq: 27 Mar 2019 22:03

Tgt Ion: 50 Resp: 720

Ion Ratio Lower Upper

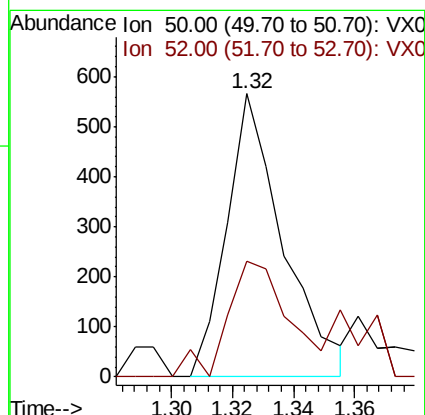
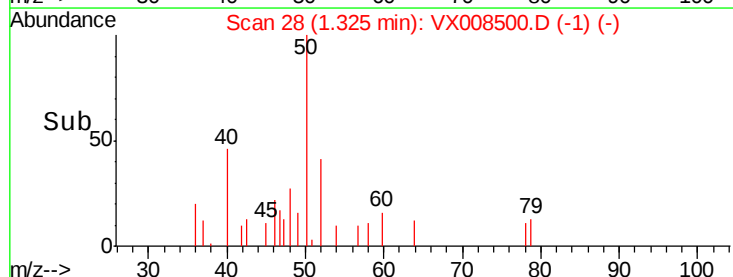
50 100

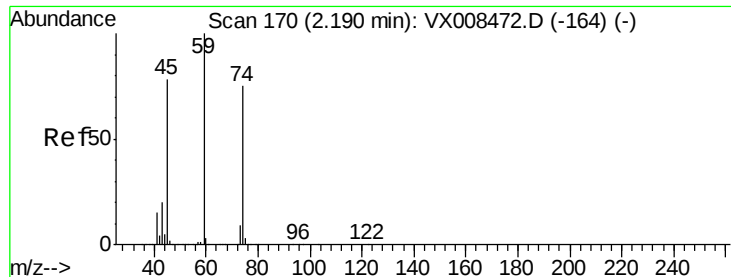
52 31.1 27.5 41.3



Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#8

Diethyl Ether

Concen: 0.202 ug/l

RT: 2.19 min Scan# 170

Delta R.T. 0.00 min

Lab File: VX008500.D

Acq: 27 Mar 2019 22:03

Instrument :

MSVOA_X

ClientSampleId :

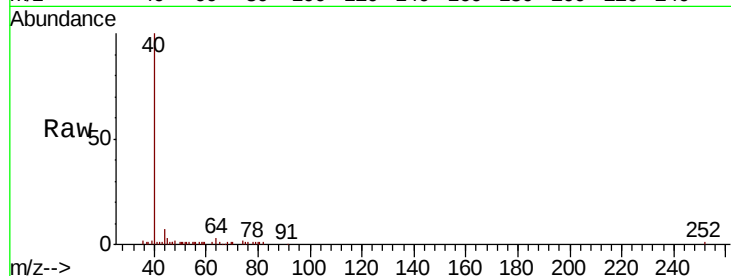
MH-C02-SETTLED-3H-B

Tot Ion: 74 Resp: 337

Ion Ratio Lower Upper

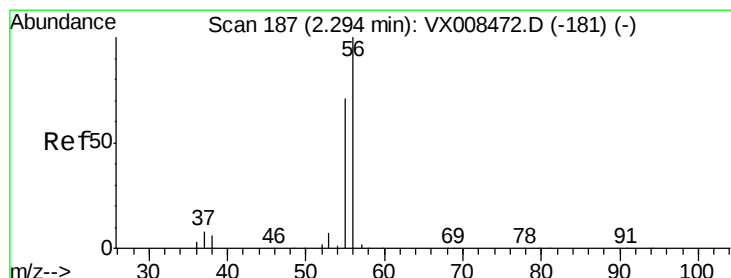
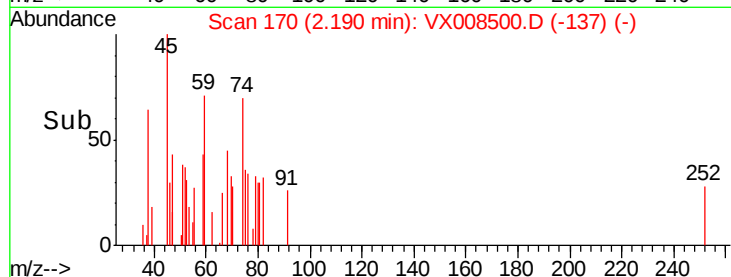
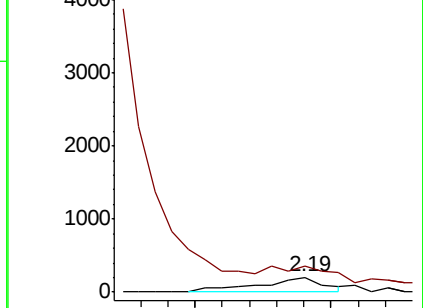
74 100

45 50.1 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: 0.237 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX008500.D

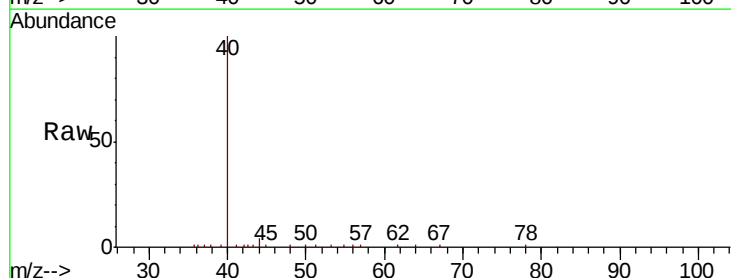
Acq: 27 Mar 2019 22:03

Tgt Ion: 56 Resp: 123

Ion Ratio Lower Upper

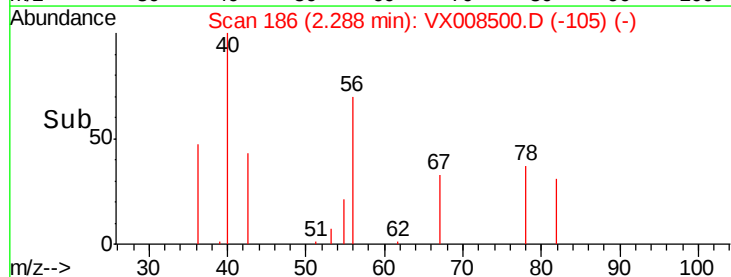
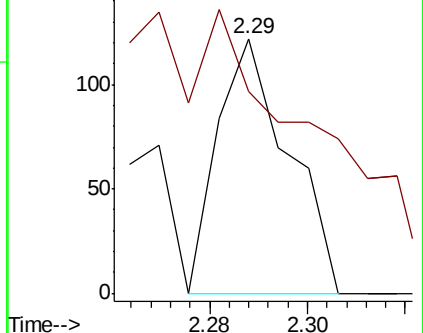
56 100

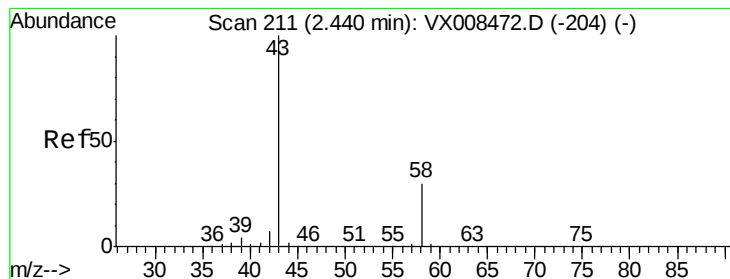
55 16.3 58.6 87.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#15

Acetone

Concen: 5.748 ug/l

RT: 2.44 min Scan# 211

Delta R.T. 0.00 min

Lab File: VX008500.D

Acq: 27 Mar 2019 22:03

Instrument :

MSVOA_X

ClientSampleId :

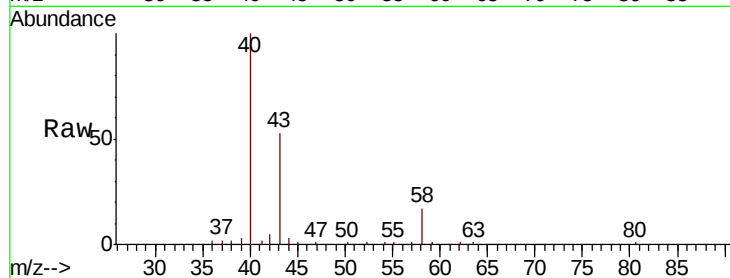
MH-C02-SETTLED-3H-B

Tot Ion: 58 Resp: 2962

Ion Ratio Lower Upper

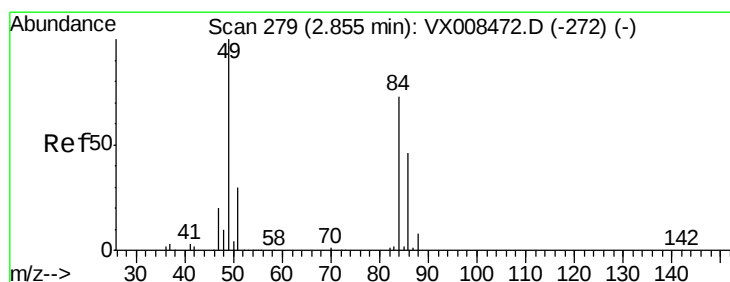
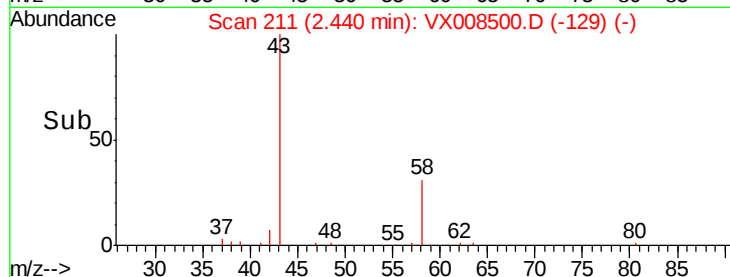
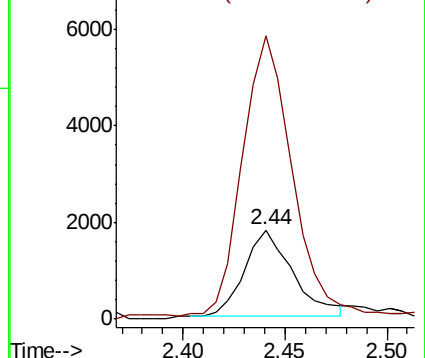
58 100

43 321.0 249.8 374.6



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



#18

Methylene Chloride

Concen: 0.535 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX008500.D

Acq: 27 Mar 2019 22:03

Tgt Ion: 84 Resp: 1427

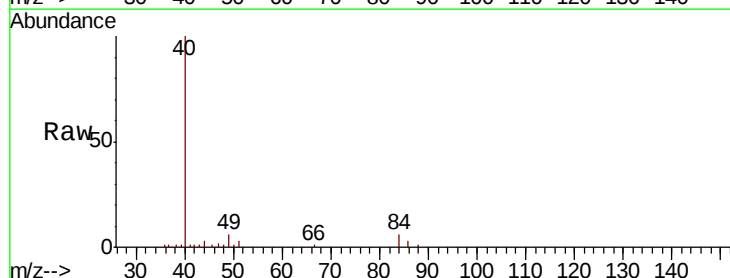
Ion Ratio Lower Upper

84 100

49 100.9 96.1 144.1

51 34.7 29.1 43.7

86 50.1 47.3 70.9

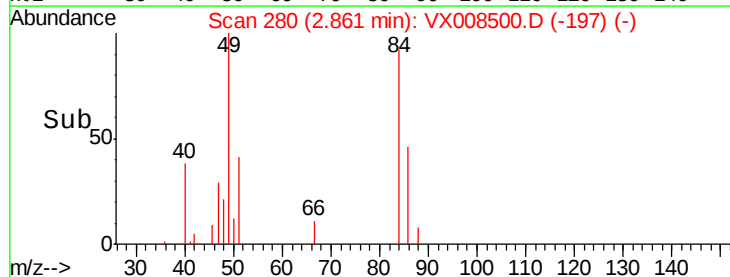
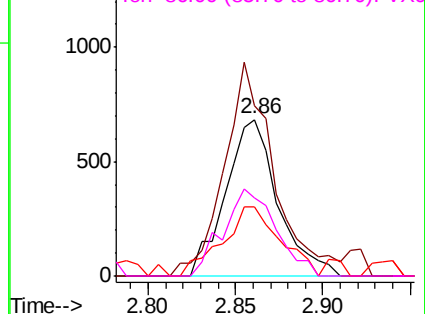


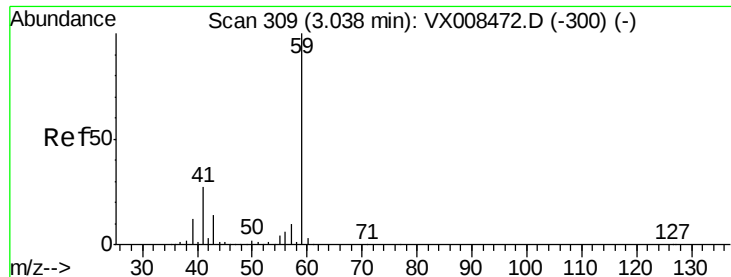
Abundance Ion 84.00 (83.70 to 84.70): VX0

Ion 49.00 (48.70 to 49.70): VX0

Ion 51.00 (50.70 to 51.70): VX0

Ion 86.00 (85.70 to 86.70): VX0





#23

tert-Butyl Alcohol

Concen: 1.623 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.02 min

Lab File: VX008500.D

Acq: 27 Mar 2019 22:03

Instrument :

MSVOA_X

ClientSampleId :

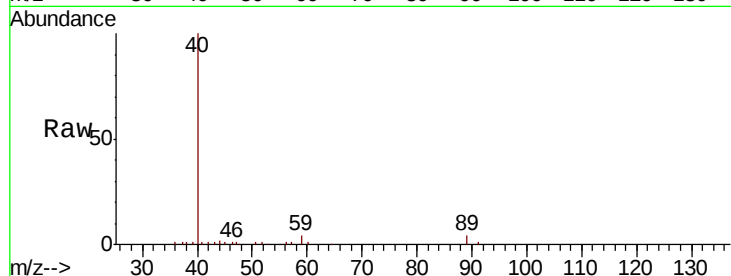
MH-C02-SETTLED-3H-B

Tot Ion: 59 Resp: 1095

Ion Ratio Lower Upper

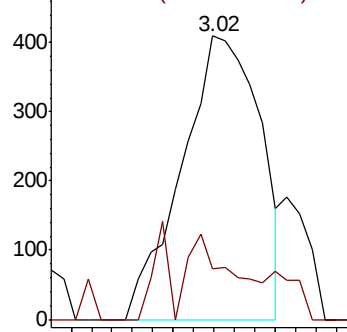
59 100

52 17.8 0.2 0.2#

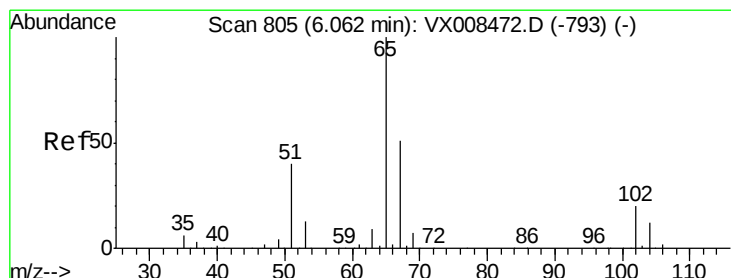
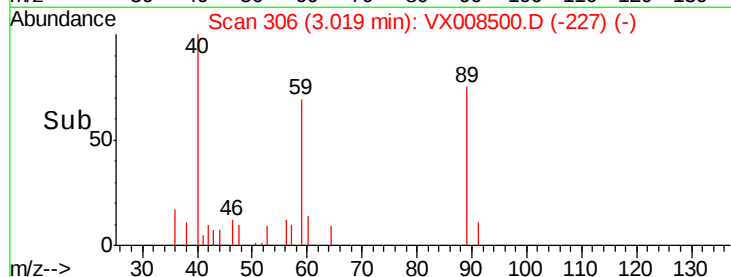


Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



Time-->



#27

1,2-Dichloroethane-d4

Concen: 29.998 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX008500.D

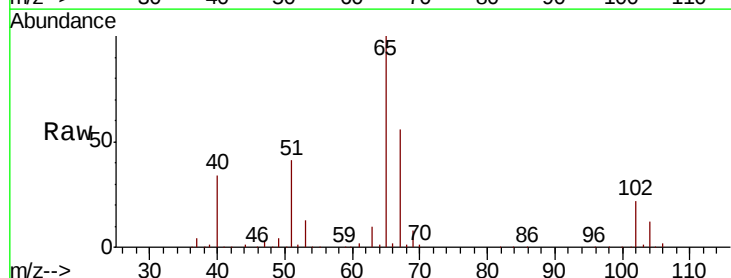
Acq: 27 Mar 2019 22:03

Tgt Ion: 65 Resp: 88367

Ion Ratio Lower Upper

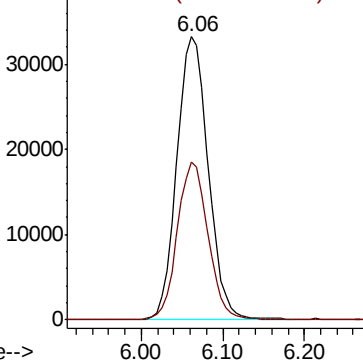
65 100

67 53.7 42.9 64.3

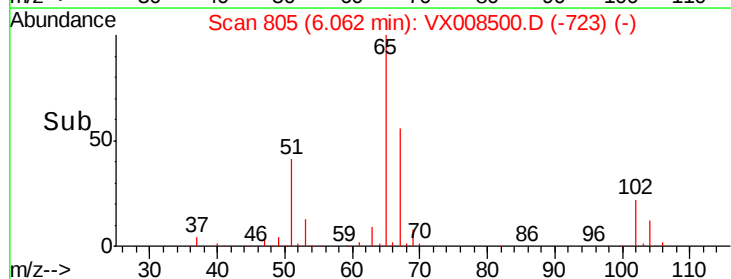


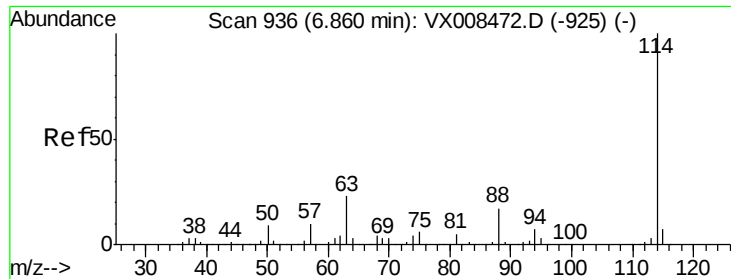
Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0



Time-->

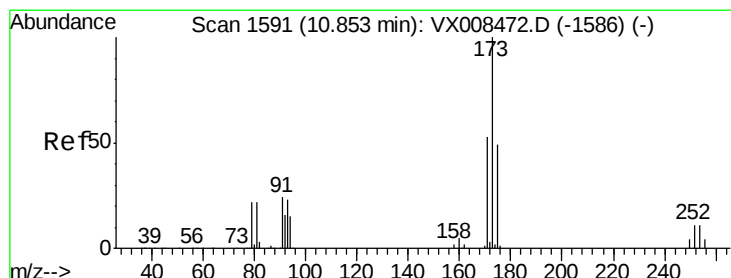
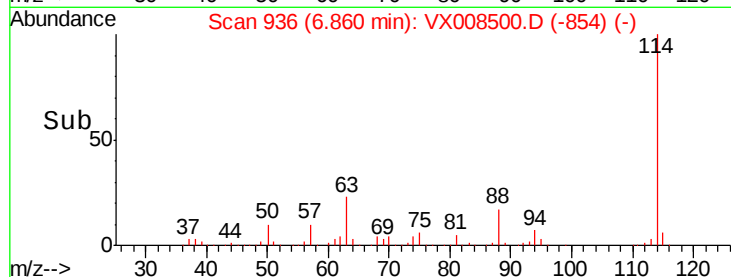
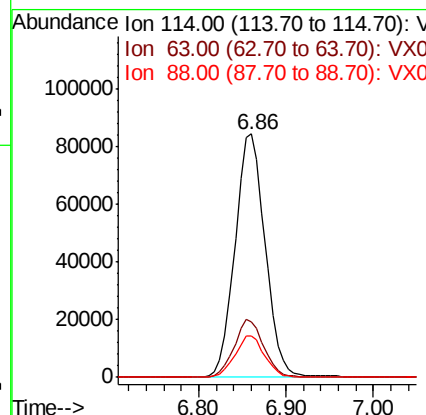
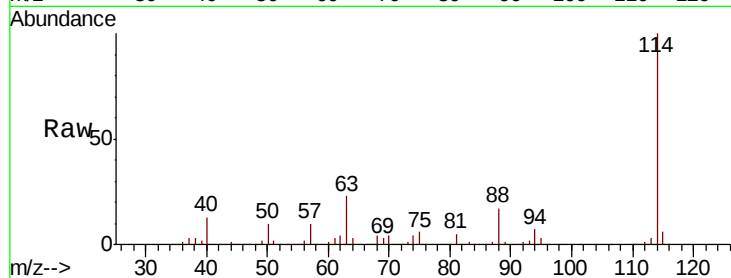




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX008500.D
 Acq: 27 Mar 2019 22:03

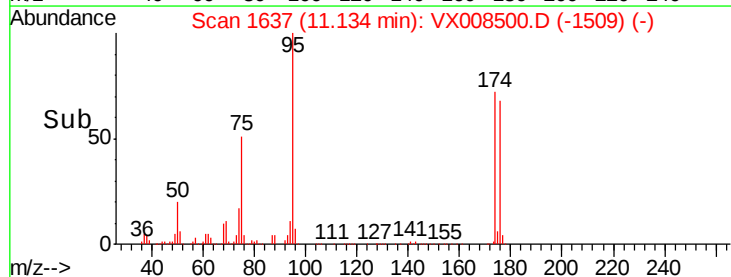
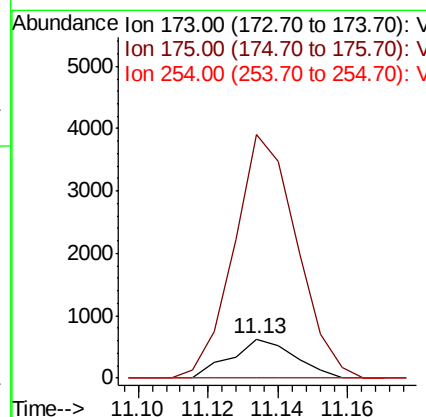
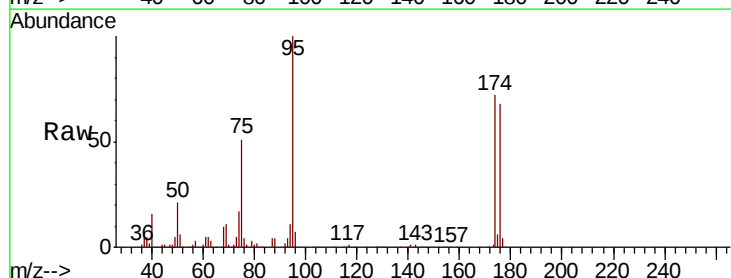
Instrument :
 MSVOA_X
 ClientSampleId :
 MH-C02-SETTLED-3H-B

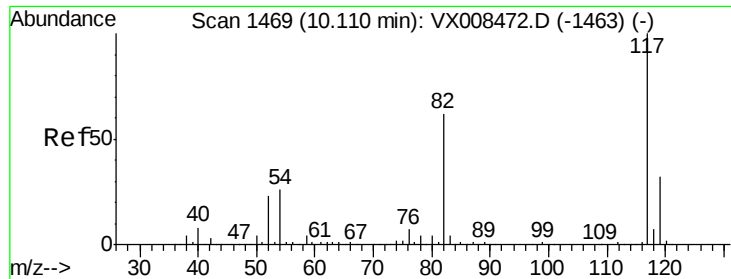
Tot Ion:114 Resp: 202504
 Ion Ratio Lower Upper
 114 100
 63 23.3 14.2 21.4#
 88 16.7 11.9 17.9



#56
 Bromoform
 Concen: 0.432 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.28 min
 Lab File: VX008500.D
 Acq: 27 Mar 2019 22:03

Tgt Ion:173 Resp: 788
 Ion Ratio Lower Upper
 173 100
 175 619.4 38.5 57.7#
 254 0.0 7.4 11.2#

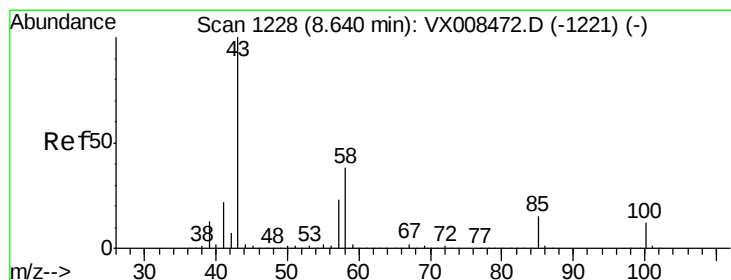
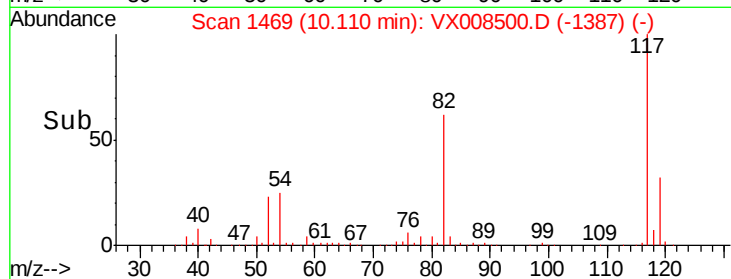
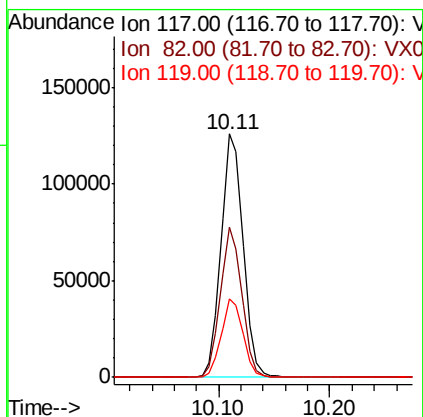
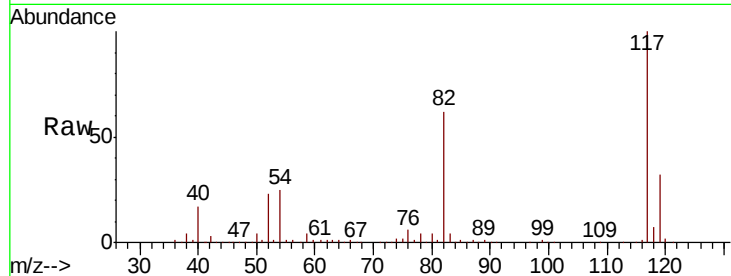




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX008500.D
Acq: 27 Mar 2019 22:03

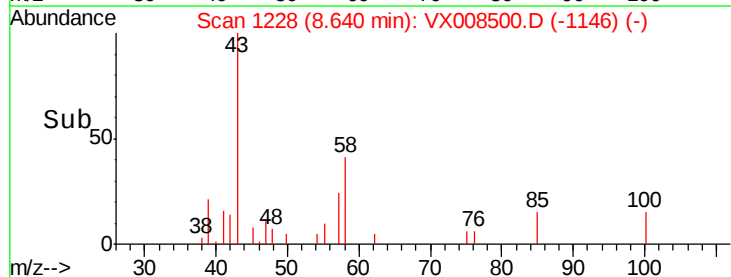
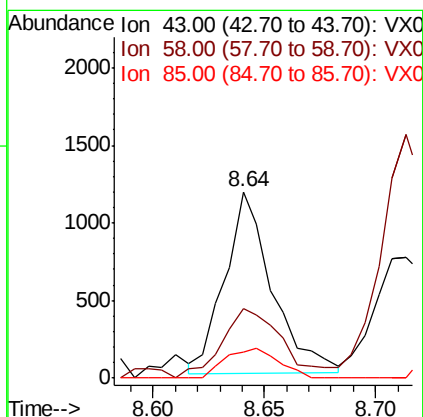
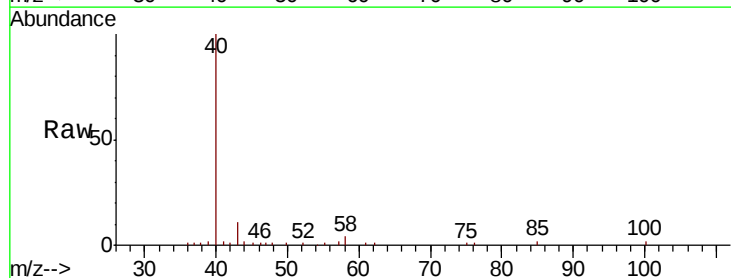
Instrument :
MSVOA_X
ClientSampleId :
MH-C02-SETTLED-3H-B

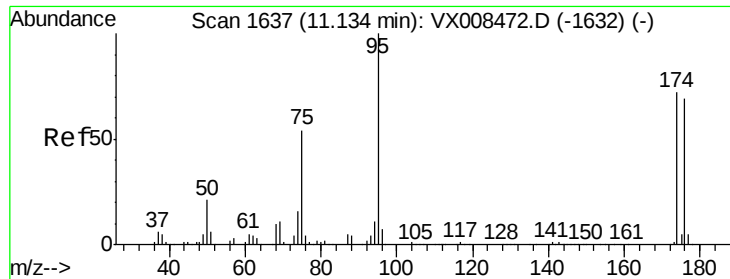
Tot Ion:117 Resp: 172742
Ion Ratio Lower Upper
117 100
82 60.4 40.4 60.6
119 31.8 25.8 38.6



#58
4-Methyl-2-Pentanone
Concen: 0.383 ug/l
RT: 8.64 min Scan# 1228
Delta R.T. 0.00 min
Lab File: VX008500.D
Acq: 27 Mar 2019 22:03

Tgt Ion: 43 Resp: 1747
Ion Ratio Lower Upper
43 100
58 46.5 31.4 47.0
85 18.1 15.0 22.6

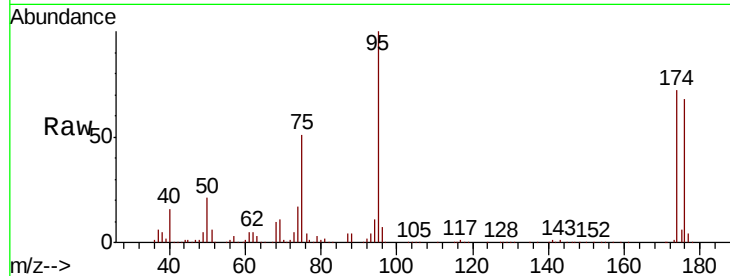




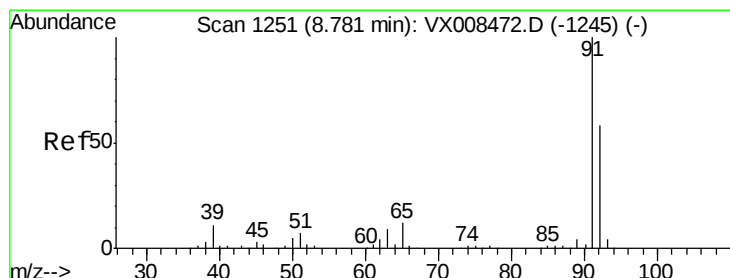
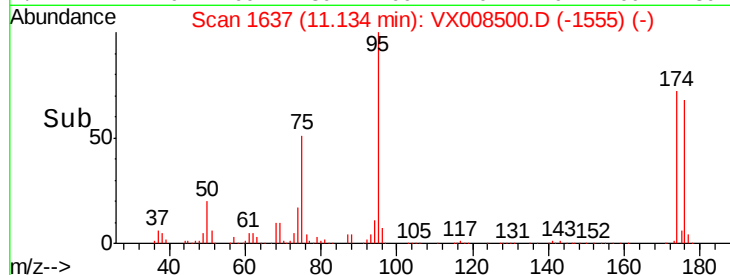
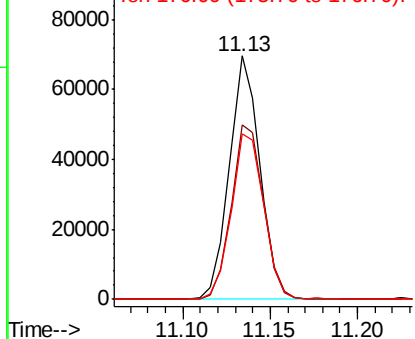
#60
4-Bromofluorobenzene
Concen: 28.113 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX008500.D
Acq: 27 Mar 2019 22:03

Instrument :
MSVOA_X
ClientSampleId :
MH-C02-SETTLED-3H-B

Tot Ion: 95 Resp: 84612
Ion Ratio Lower Upper
95 100
174 75.5 74.9 112.3
176 72.3 70.7 106.1

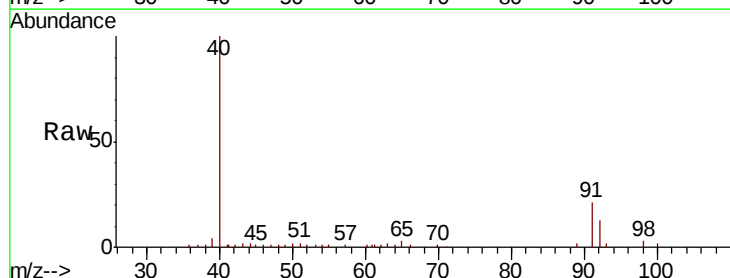


Abundance Ion 95.00 (94.70 to 95.70): VX0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V

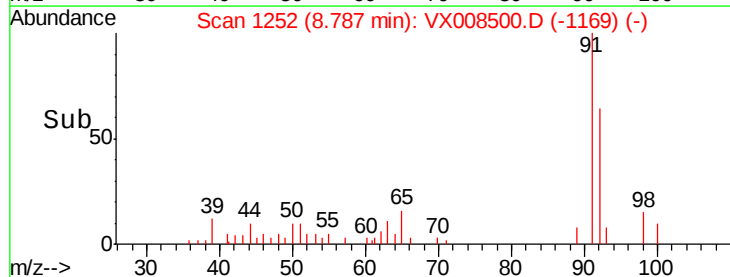
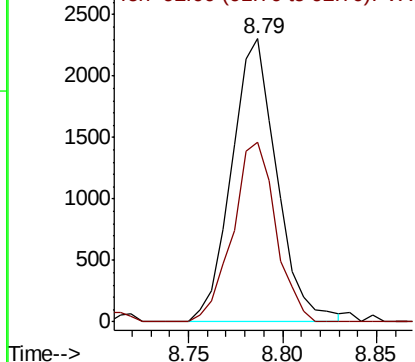


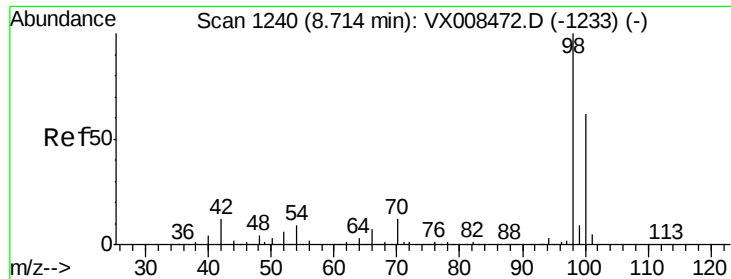
#62
Toluene
Concen: 0.367 ug/l
RT: 8.79 min Scan# 1252
Delta R.T. 0.01 min
Lab File: VX008500.D
Acq: 27 Mar 2019 22:03

Tgt Ion: 91 Resp: 3840
Ion Ratio Lower Upper
91 100
92 60.1 46.4 69.6



Abundance Ion 91.00 (90.70 to 91.70): VX0
Ion 92.00 (91.70 to 92.70): VX0





#63

Toluene-d8

Concen: 30.795 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX008500.D

Acq: 27 Mar 2019 22:03

Instrument :

MSVOA_X

ClientSampleId :

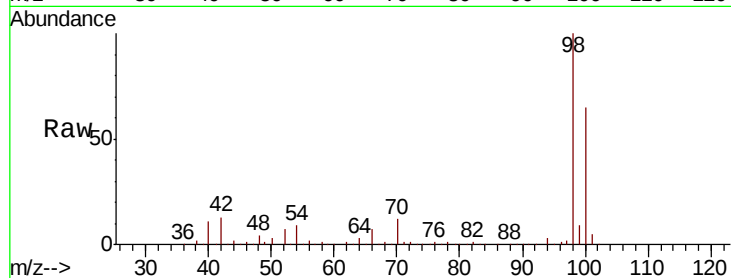
MH-C02-SETTLED-3H-B

Tot Ion: 98 Resp: 252511

Ion Ratio Lower Upper

98 100

100 63.7 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

150000

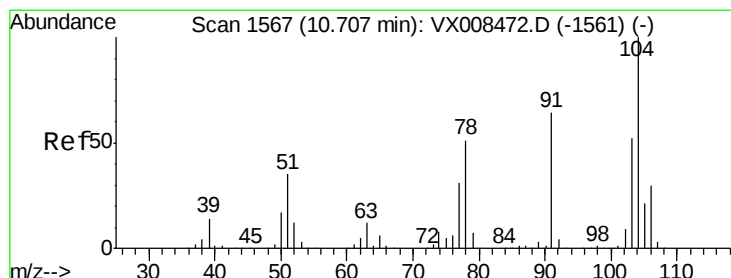
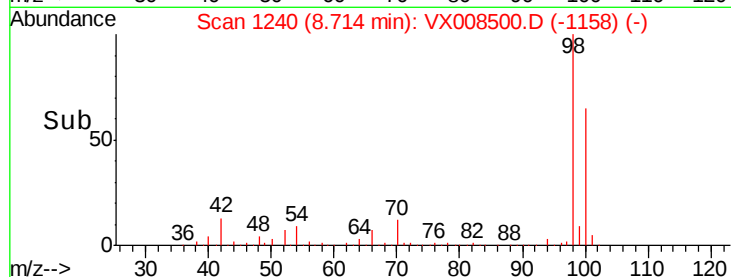
100000

50000

0

8.65 8.70 8.75 8.80

Time-->



#69

Styrene

Concen: 0.686 ug/l

RT: 10.71 min Scan# 1568

Delta R.T. 0.01 min

Lab File: VX008500.D

Acq: 27 Mar 2019 22:03

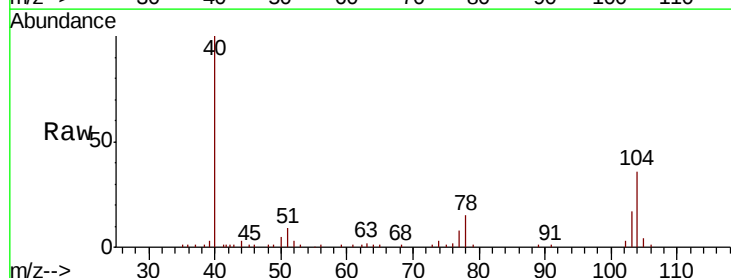
Tgt Ion: 104 Resp: 4945

Ion Ratio Lower Upper

104 100

78 47.9 38.2 57.2

103 51.0 45.0 67.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VX0

Ion 103.00 (102.70 to 103.70): V

10.71

5000

4000

3000

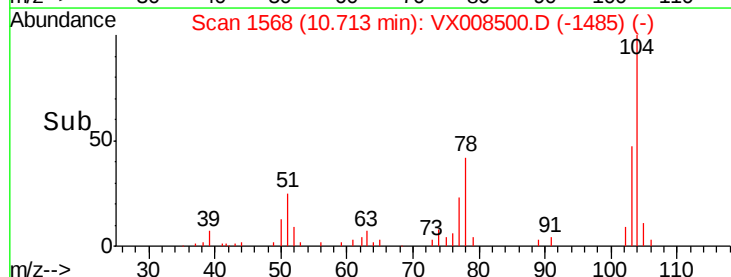
2000

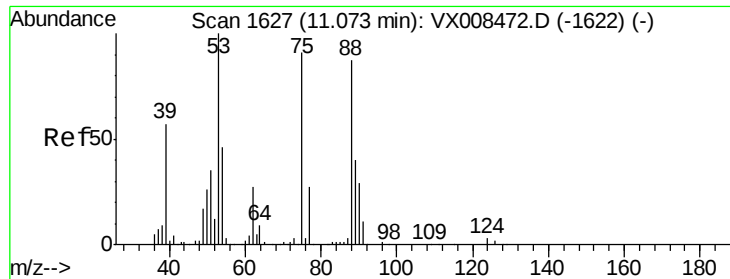
1000

0

10.65 10.70 10.75

Time-->

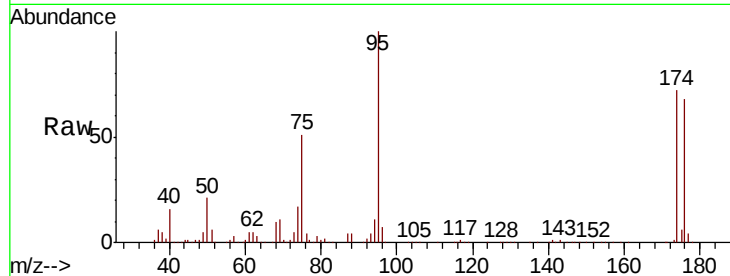




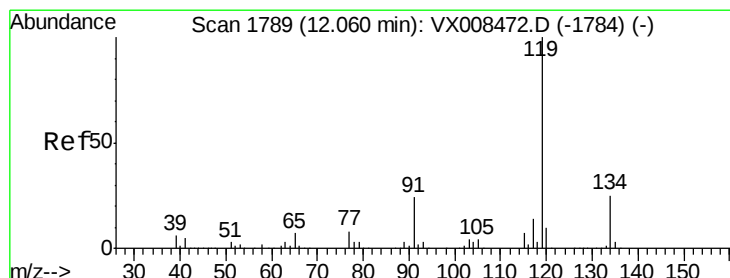
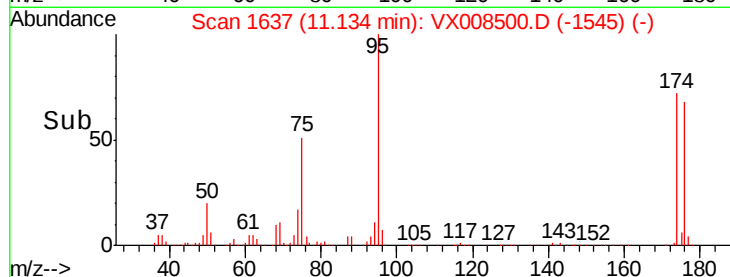
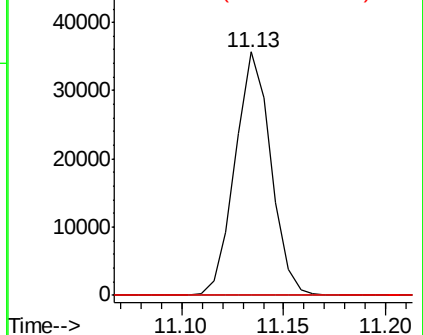
#77
t-1,4-Dichloro-2-butene
Concen: 32.858 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX008500.D
Acq: 27 Mar 2019 22:03

Instrument :
MSVOA_X
ClientSampleId :
MH-C02-SETTLED-3H-B

Tot Ion: 75 Resp: 43500
Ion Ratio Lower Upper
75 100
53 0.0 55.5 166.7#
89 0.0 24.4 73.2#

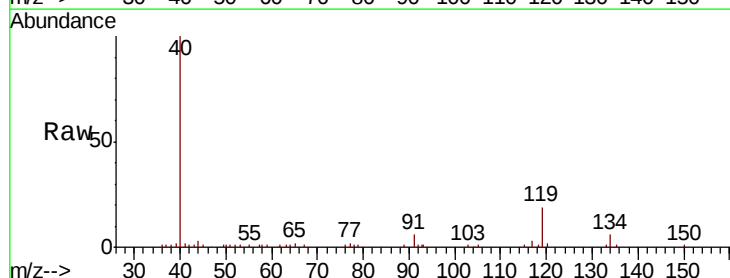


Abundance Ion 75.00 (74.70 to 75.70): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 89.00 (88.70 to 89.70): VX0

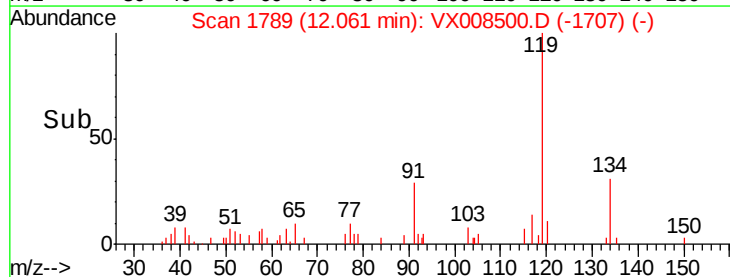
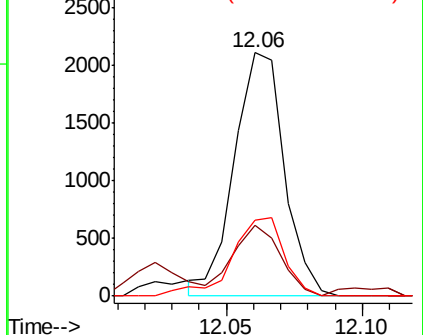


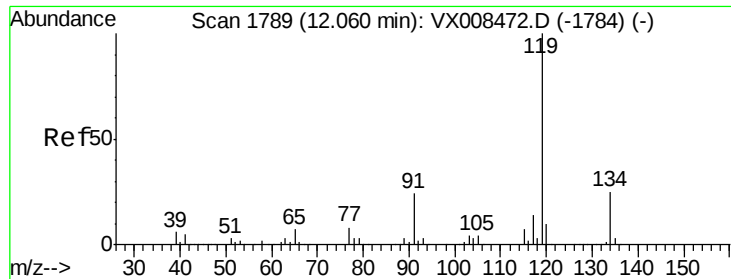
#79
tert-butylbenzene
Concen: 0.281 ug/l
RT: 12.06 min Scan# 1789
Delta R.T. 0.00 min
Lab File: VX008500.D
Acq: 27 Mar 2019 22:03

Tgt Ion: 119 Resp: 2687
Ion Ratio Lower Upper
119 100
91 27.9 0.0 45.0
134 33.8 0.0 55.4



Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): VX0
Ion 134.00 (133.70 to 134.70): V





#82
 p-Isopropyltoluene
 Concen: 0.281 ug/l
 RT: 12.06 min Scan# 1789
 Delta R.T. 0.00 min
 Lab File: VX008500.D
 Acq: 27 Mar 2019 22:03

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-C02-SETTLED-3H-B

Tot Ion	Ratio	Lower	Upper
119	100		
134	33.8	0.0	55.4
91	27.9	0.0	45.0

