

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032719\
 Data File : VX008484.D
 Acq On : 27 Mar 2019 15:52
 Operator : JC/SP
 Sample : K2099-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-C05-SETTLED-1H-A

Quant Time: Mar 28 02:06:16 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	35971	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	208025	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	179313	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	91522	30.41	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.37%
60) 4-Bromofluorobenzene	11.13	95	89295	28.58	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.27%
63) Toluene-d8	8.71	98	262078	30.79	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.63%

Target Compounds

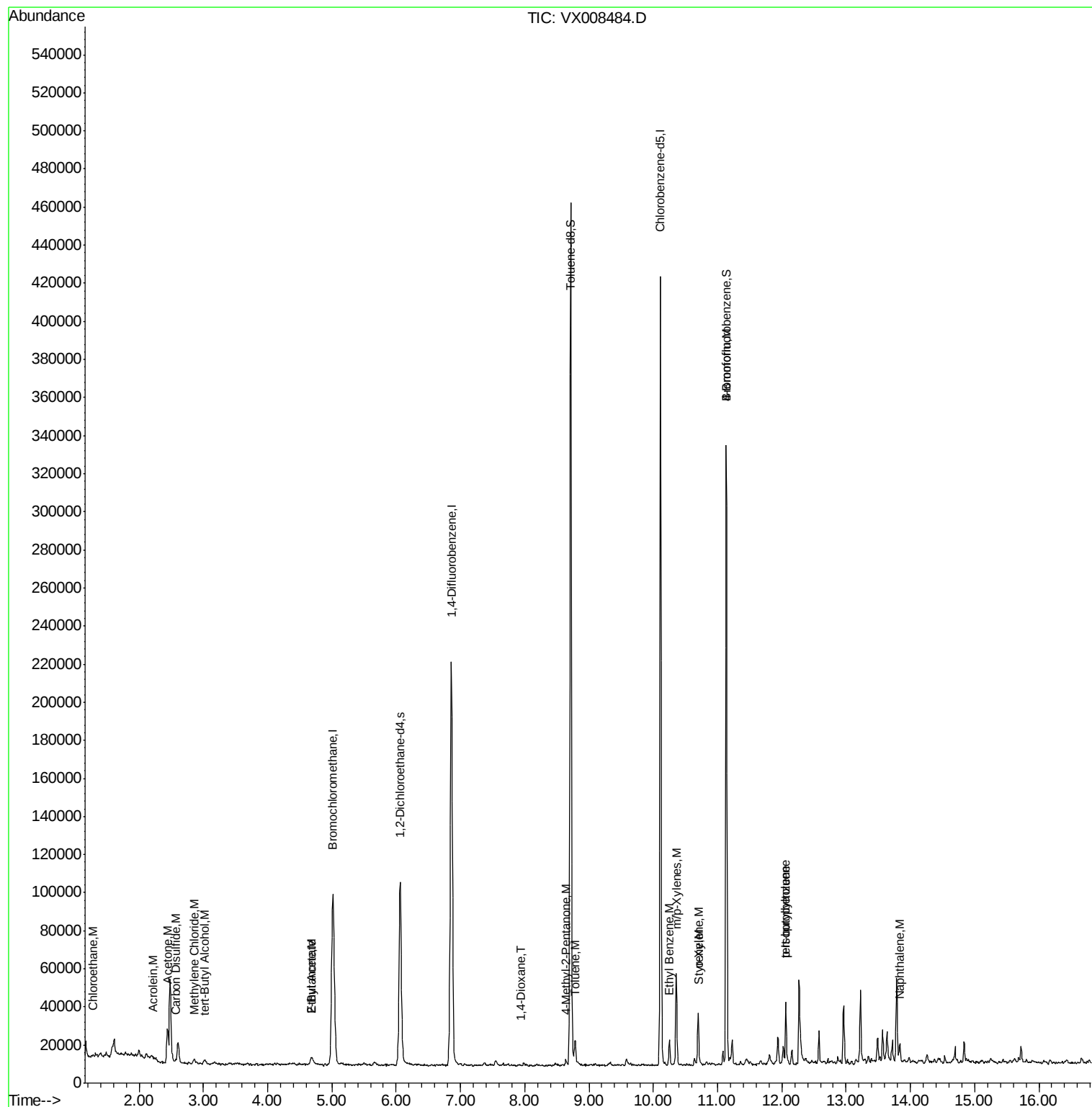
					Ovalue
6) Chloroethane	1.28	64	573	0.270 ug/l	89
13) Acrolein	2.21	56	144	0.272 ug/l	84
15) Acetone	2.44	58	6134	11.654 ug/l	100
16) Carbon Disulfide	2.57	76	1567	0.221 ug/l #	80
18) Methylene Chloride	2.85	84	1138	0.418 ug/l	95
23) tert-Butyl Alcohol	3.02	59	1586	2.301 ug/l #	93
30) 2-Butanone	4.68	43	3973	1.544 ug/l #	95
43) Ethyl Acetate	4.68	43	3973	0.858 ug/l	96
45) 1,4-Dioxane	7.94	88	50	0.671 ug/l #	1
56) Bromoform	11.14	173	873	0.466 ug/l #	1
58) 4-Methyl-2-Pentanone	8.65	43	1767	0.374 ug/l	89
62) Toluene	8.79	91	7539	0.694 ug/l	97
66) Ethyl Benzene	10.25	91	7295	0.605 ug/l	98
67) m/p-Xylenes	10.36	106	11301	2.571 ug/l	87
68) o-Xylene	10.70	106	5217	1.213 ug/l	88
69) Styrene	10.71	104	2001	0.267 ug/l #	52
79) tert-butylbenzene	12.06	119	13045	1.316 ug/l	95
82) p-Isopropyltoluene	12.06	119	13045	1.316 ug/l	95
91) Naphthalene	13.83	128	5067	0.444 ug/l	95

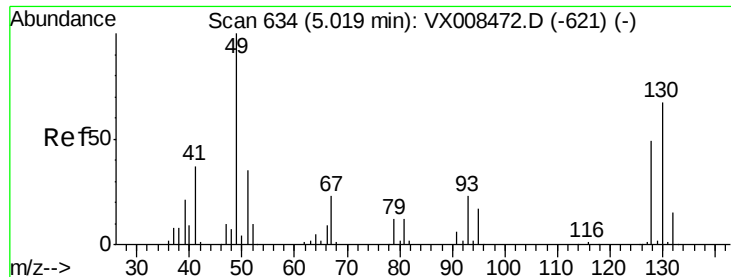
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX008484.D

Acq: 27 Mar 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

MH-C05-SETTLED-1H-A

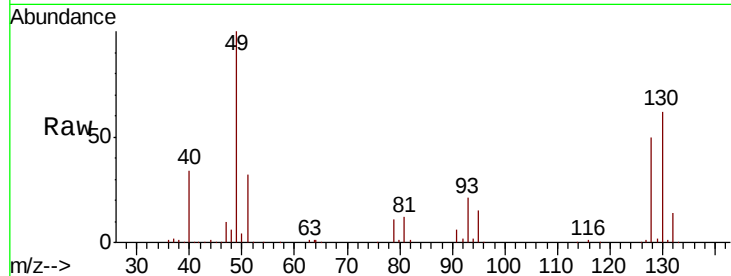
Tot Ion:128 Resp: 35971

Ion Ratio Lower Upper

128 100

49 204.0 0.0 350.8

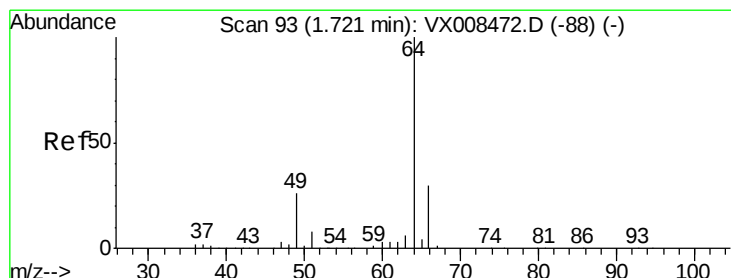
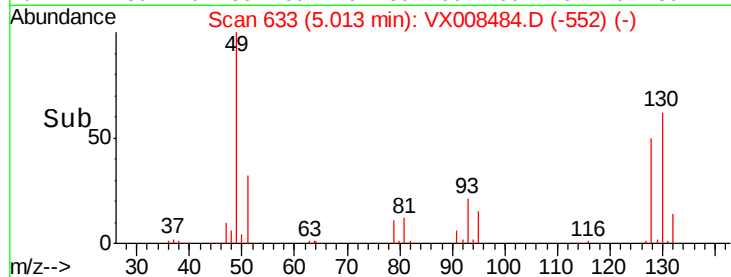
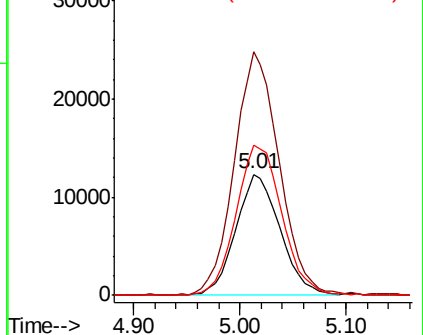
130 128.6 0.0 325.8



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



#6

Chloroethane

Concen: 0.270 ug/l

RT: 1.28 min Scan# 20

Delta R.T. -0.45 min

Lab File: VX008484.D

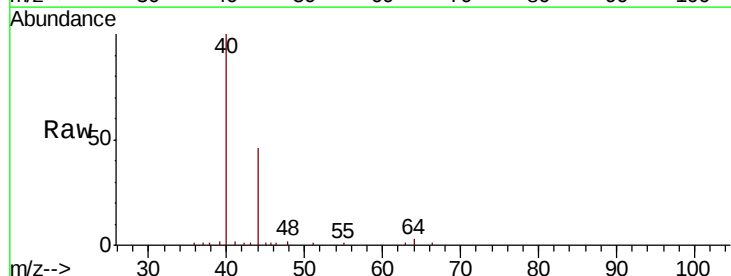
Acq: 27 Mar 2019 15:52

Tgt Ion: 64 Resp: 573

Ion Ratio Lower Upper

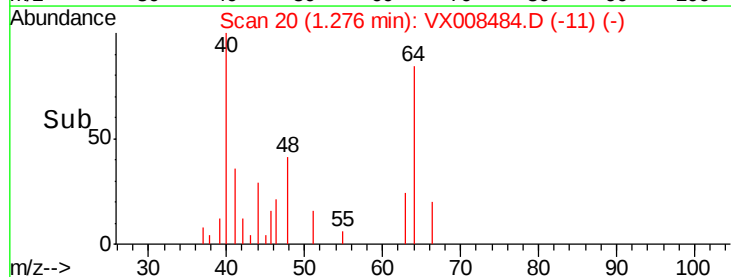
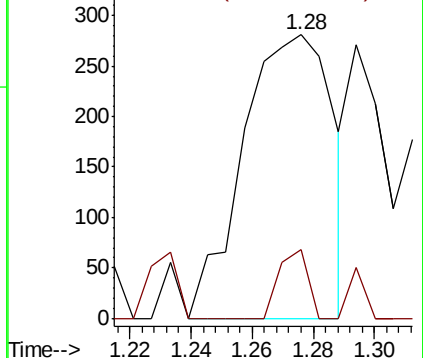
64 100

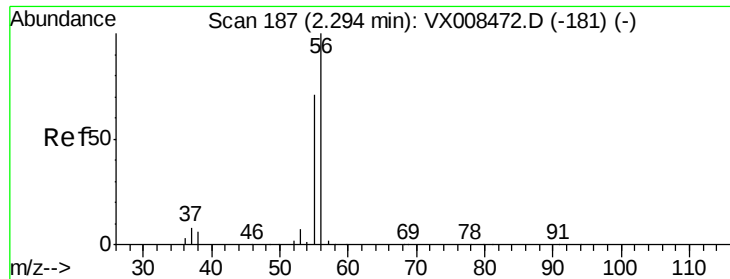
66 24.2 23.9 35.9



Abundance Ion 64.00 (63.70 to 64.70): VX0

Ion 66.00 (65.70 to 66.70): VX0





#13

Acrolein

Concen: 0.272 ug/l

RT: 2.21 min Scan# 174

Delta R.T. -0.08 min

Lab File: VX008484.D

Acq: 27 Mar 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

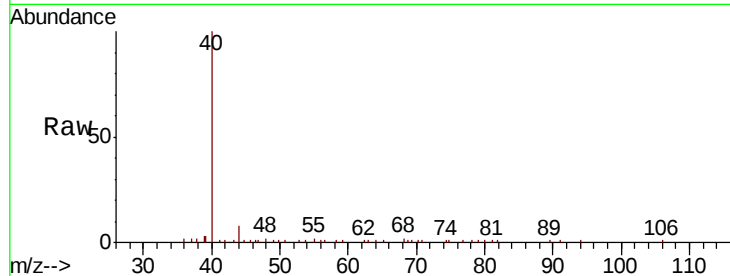
MH-C05-SETTLED-1H-A

Tot Ion: 56 Resp: 144

Ion Ratio Lower Upper

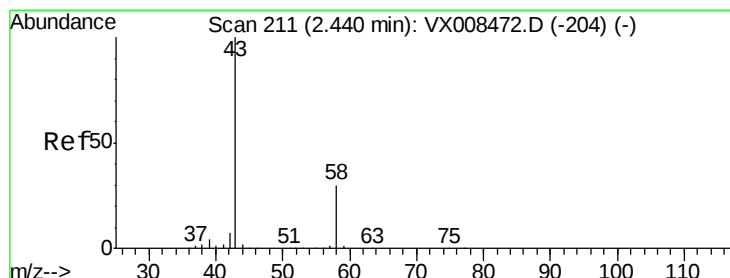
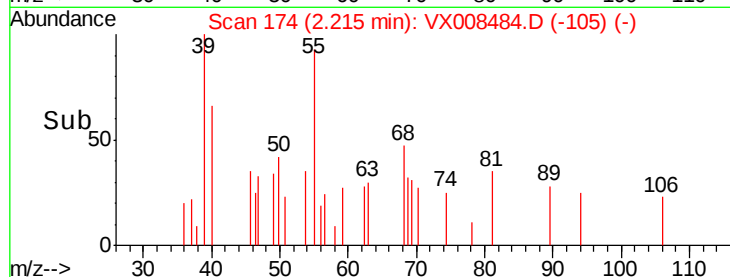
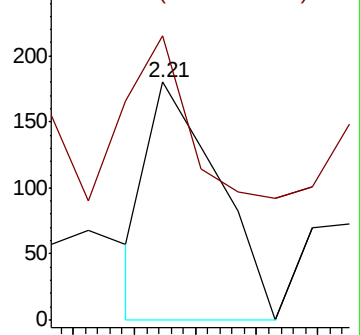
56 100

55 59.7 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: 11.654 ug/l

RT: 2.44 min Scan# 211

Delta R.T. 0.00 min

Lab File: VX008484.D

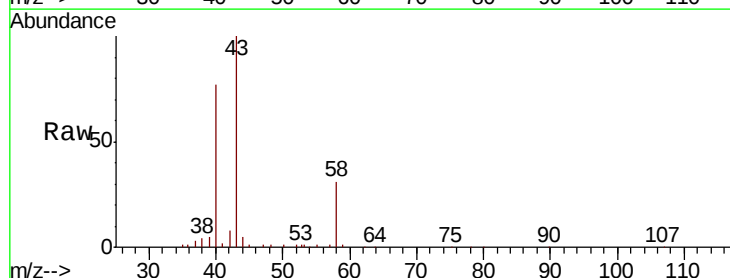
Acq: 27 Mar 2019 15:52

Tgt Ion: 58 Resp: 6134

Ion Ratio Lower Upper

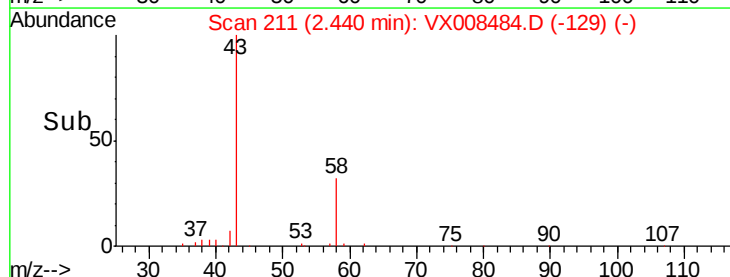
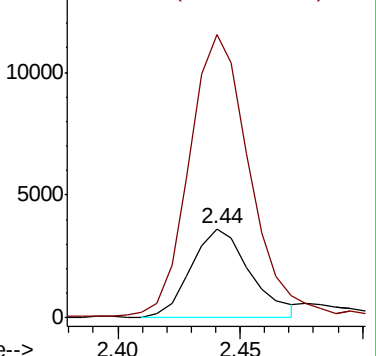
58 100

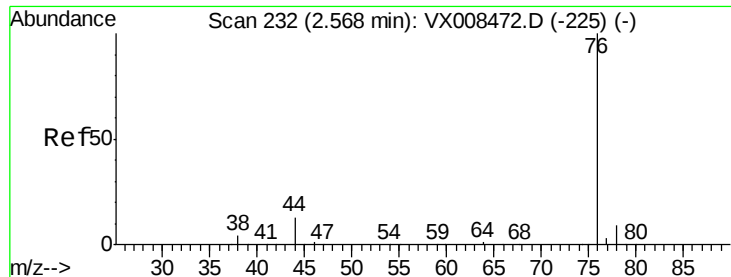
43 312.1 249.8 374.6



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

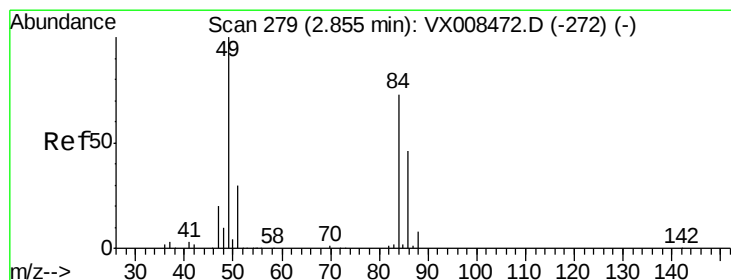
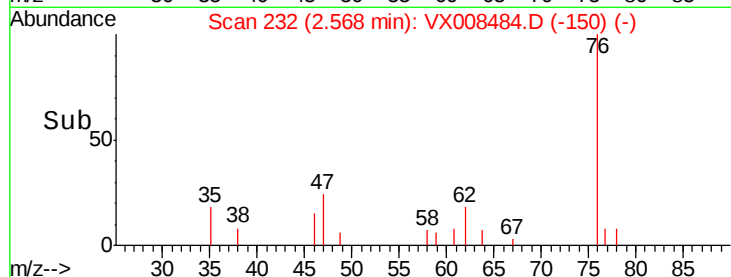
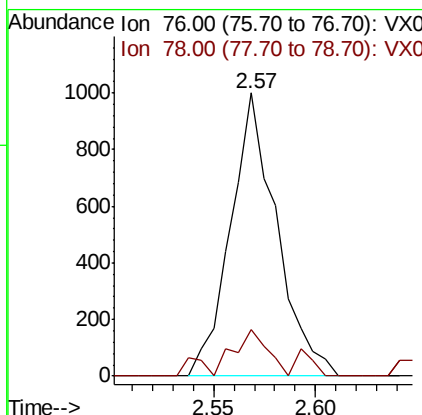
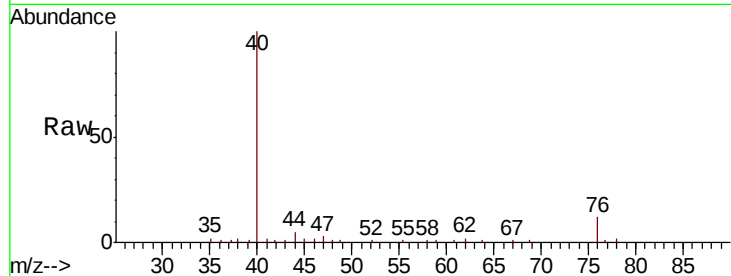




#16
Carbon Disulfide
Concen: 0.221 ug/l
RT: 2.57 min Scan# 232
Delta R.T. 0.00 min
Lab File: VX008484.D
Acq: 27 Mar 2019 15:52

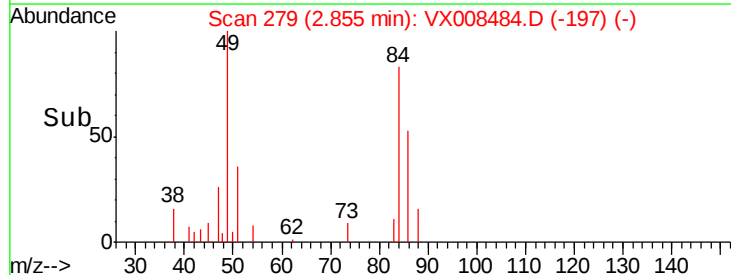
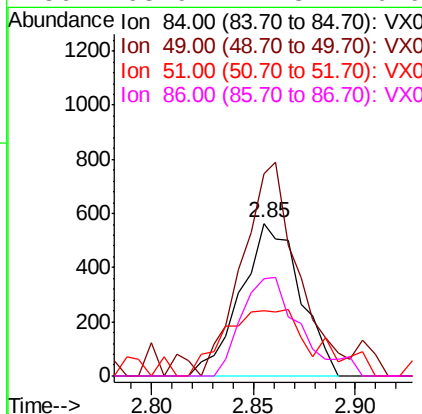
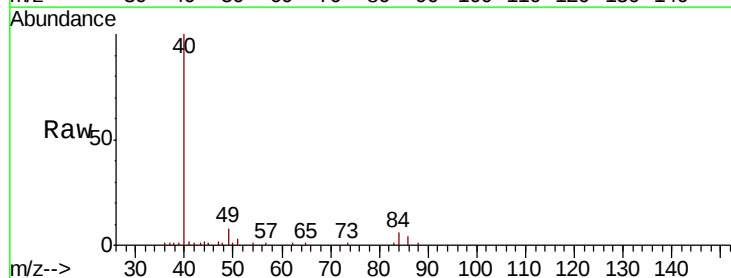
Instrument :
MSVOA_X
ClientSampleId :
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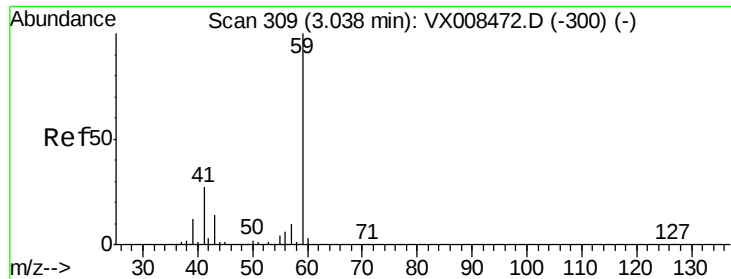
Tot Ion: 76 Resp: 1567
Ion Ratio Lower Upper
76 100
78 16.6 7.5 11.3#



#18
Methylene Chloride
Concen: 0.418 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX008484.D
Acq: 27 Mar 2019 15:52

Tgt Ion: 84 Resp: 1138
Ion Ratio Lower Upper
84 100
49 117.2 96.1 144.1
51 42.8 29.1 43.7
86 63.9 47.3 70.9



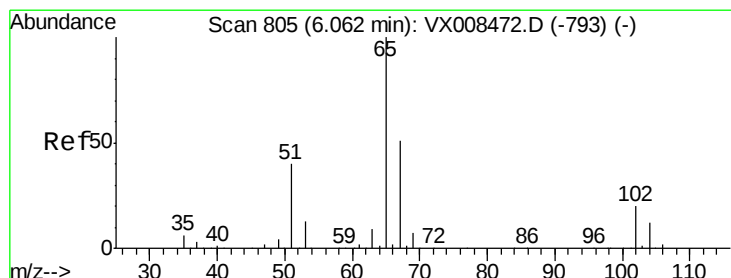
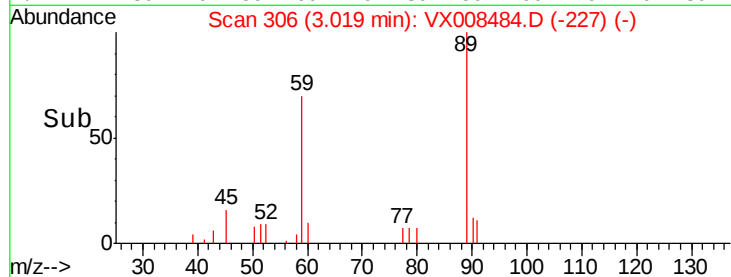
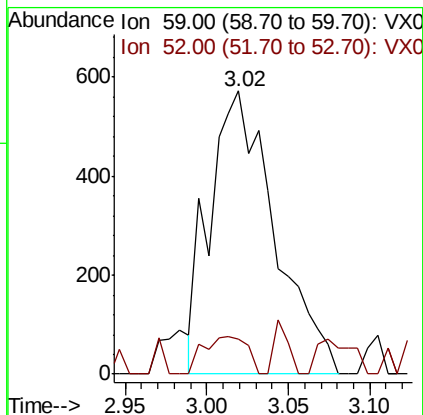
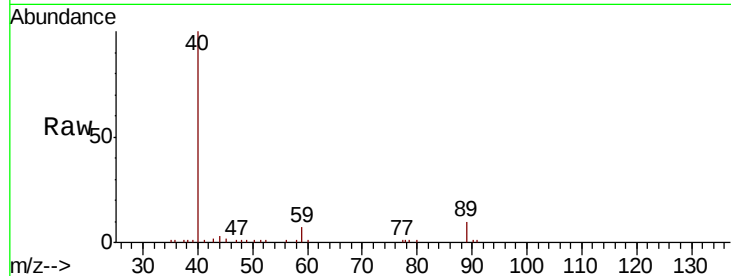


#23

tert-Butyl Alcohol
 Concen: 2.301 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.02 min
 Lab File: VX008484.D
 Acq: 27 Mar 2019 15:52

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-C05-SETTLED-1H-A

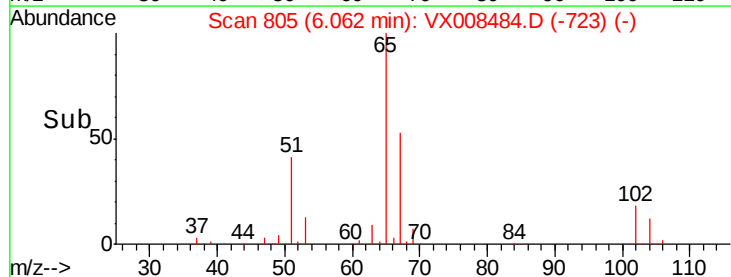
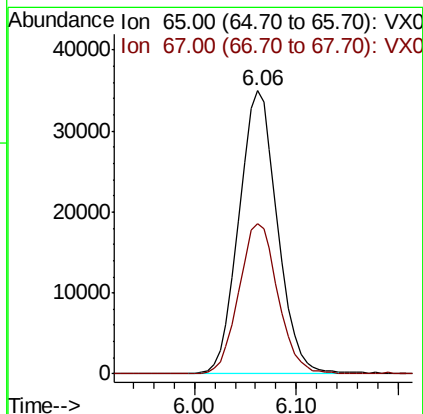
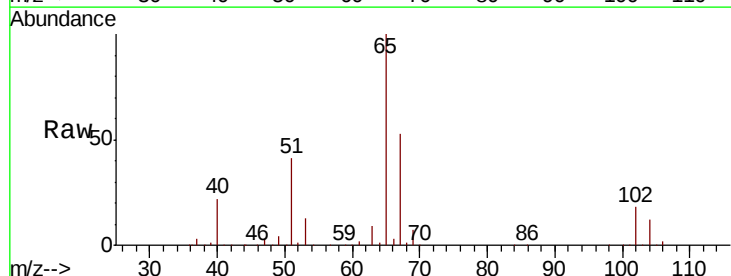
Tot Ion: 59 Resp: 1586
 Ion Ratio Lower Upper
 59 100
 52 9.0 0.2 0.2#

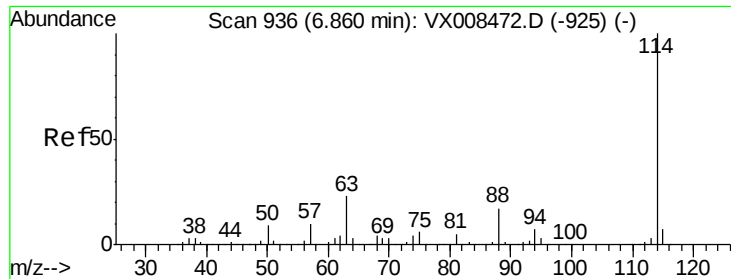


#27

1,2-Dichloroethane-d4
 Concen: 30.415 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX008484.D
 Acq: 27 Mar 2019 15:52

Tgt Ion: 65 Resp: 91522
 Ion Ratio Lower Upper
 65 100
 67 54.0 42.9 64.3

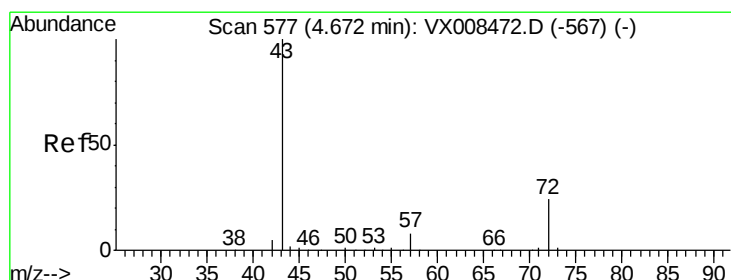
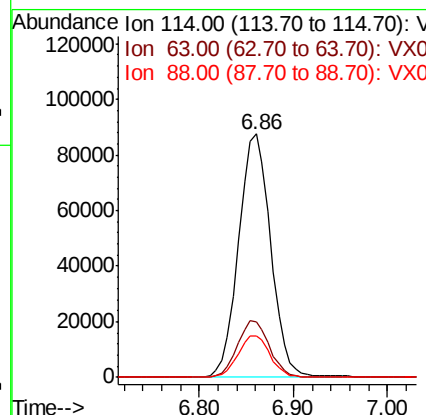
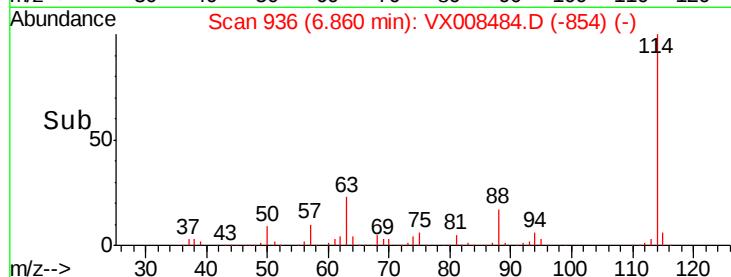
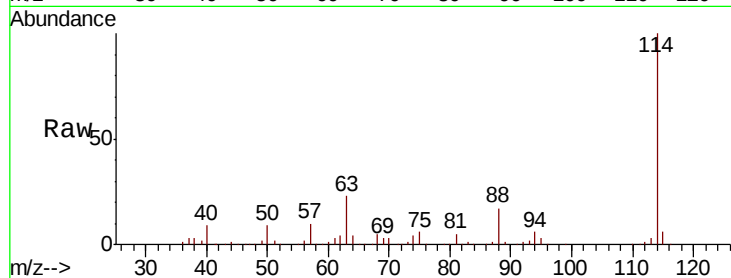




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX008484.D
 Acq: 27 Mar 2019 15:52

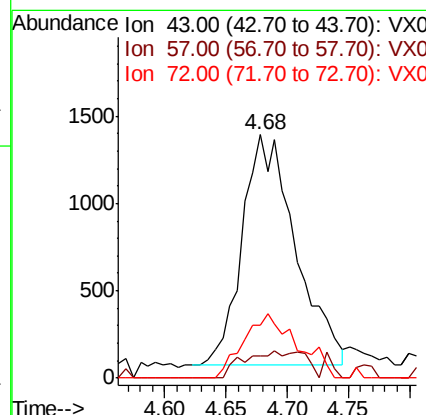
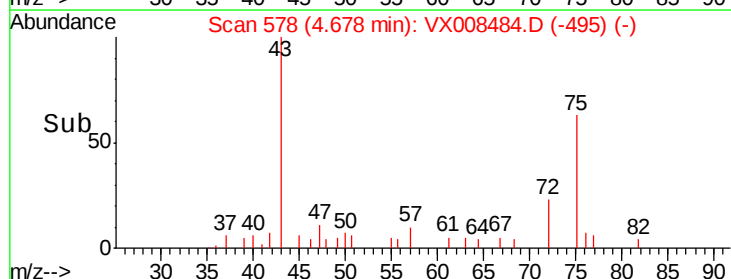
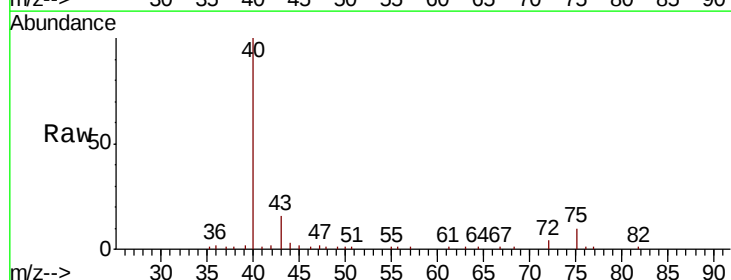
Instrument :
 MSVOA_X
 ClientSampleId :
 MH-C05-SETTLED-1H-A

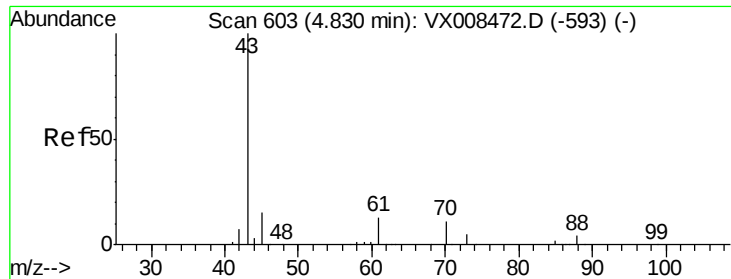
Tot Ion:114 Resp: 208025
 Ion Ratio Lower Upper
 114 100
 63 23.2 14.2 21.4#
 88 17.1 11.9 17.9



#30
 2-Butanone
 Concen: 1.544 ug/l
 RT: 4.68 min Scan# 578
 Delta R.T. 0.01 min
 Lab File: VX008484.D
 Acq: 27 Mar 2019 15:52

Tgt Ion: 43 Resp: 3973
 Ion Ratio Lower Upper
 43 100
 57 3.8 7.0 10.6#
 72 25.9 21.5 32.3

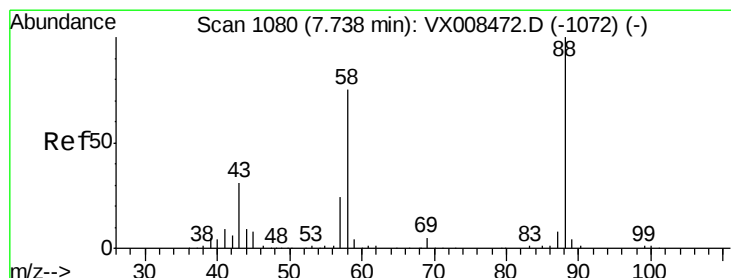
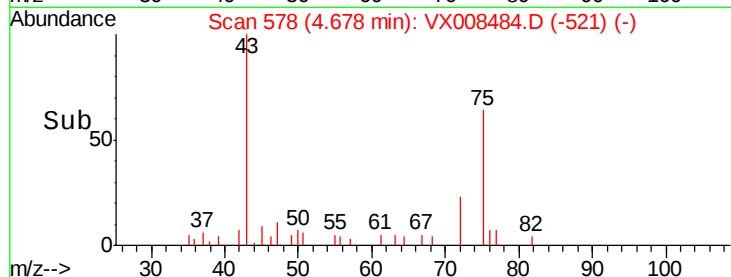
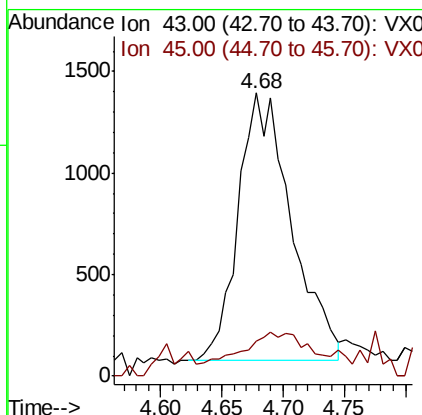
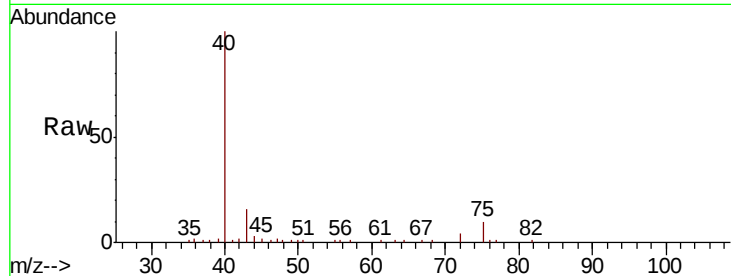




#43
Ethyl Acetate
Concen: 0.858 ug/l
RT: 4.68 min Scan# 578
Delta R.T. -0.15 min
Lab File: VX008484.D
Acq: 27 Mar 2019 15:52

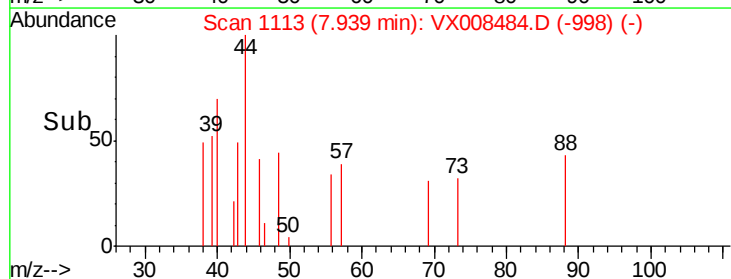
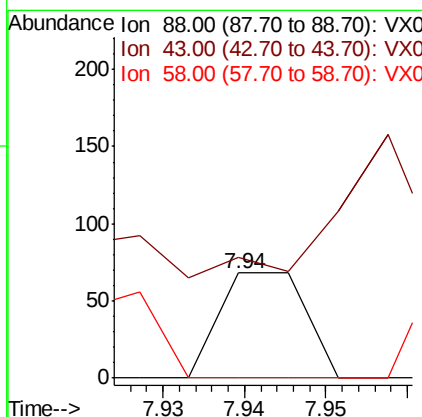
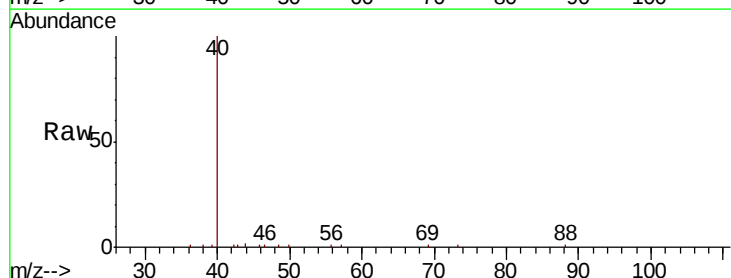
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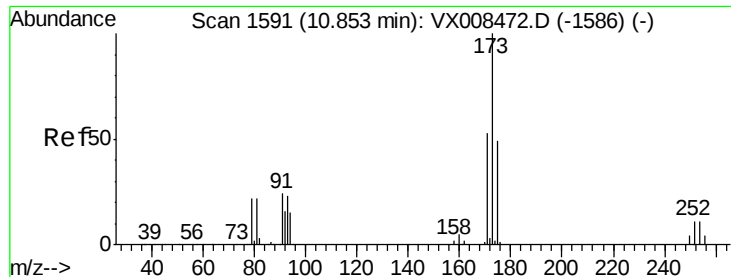
Tot Ion: 43 Resp: 3973
Ion Ratio Lower Upper
43 100
45 7.2 6.9 10.3



#45
1,4-Dioxane
Concen: 0.671 ug/l
RT: 7.94 min Scan# 1113
Delta R.T. 0.20 min
Lab File: VX008484.D
Acq: 27 Mar 2019 15:52

Tgt Ion: 88 Resp: 50
Ion Ratio Lower Upper
88 100
43 292.0 23.6 35.4#
58 78.0 51.6 77.4#





#56

Bromoform

Concen: 0.466 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.29 min

Lab File: VX008484.D

Acq: 27 Mar 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

MH-C05-SETTLED-1H-A

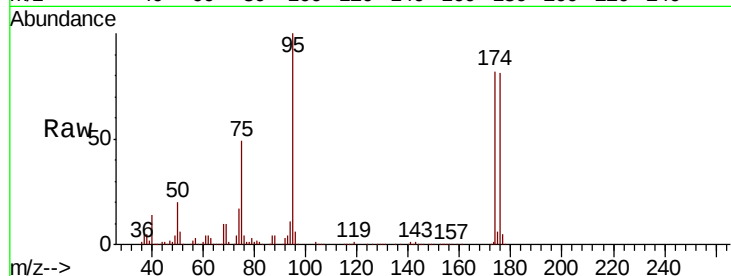
Tot Ion:173 Resp: 873

Ion Ratio Lower Upper

173 100

175 576.2 38.5 57.7#

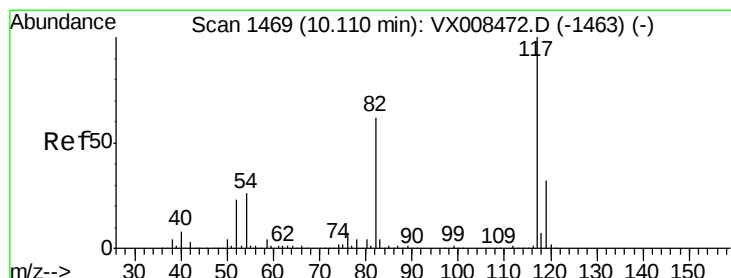
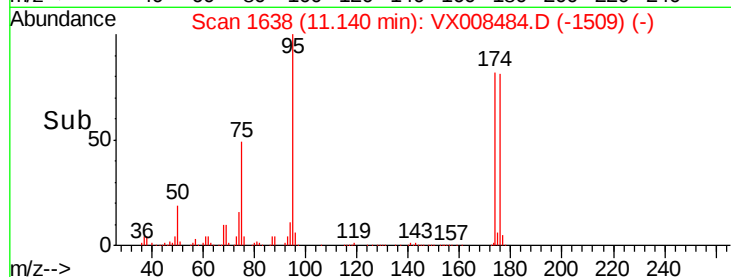
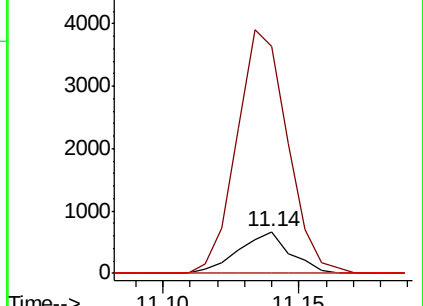
254 0.0 7.4 11.2#



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: VX008484.D

Acq: 27 Mar 2019 15:52

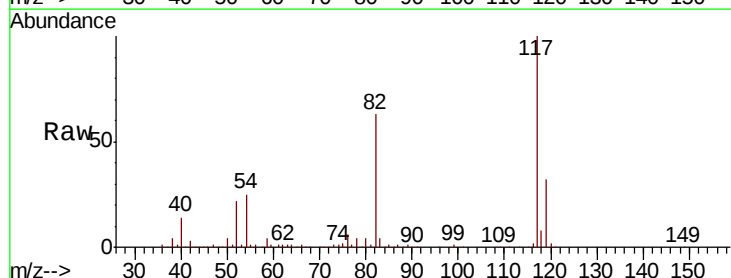
Tgt Ion:117 Resp: 179313

Ion Ratio Lower Upper

117 100

82 61.0 40.4 60.6#

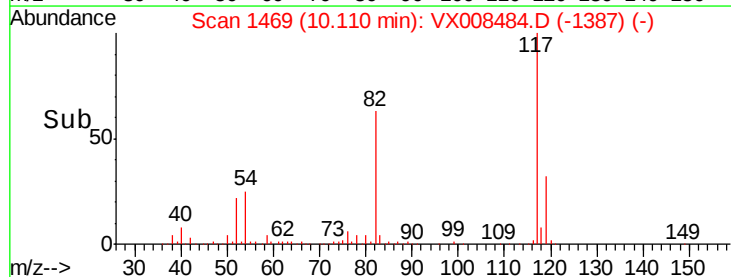
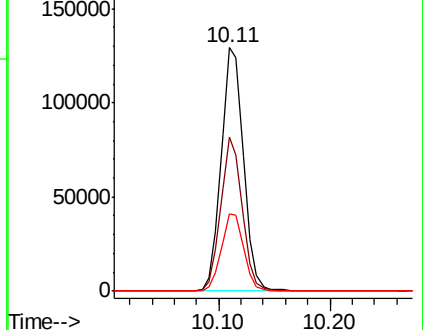
119 32.1 25.8 38.6

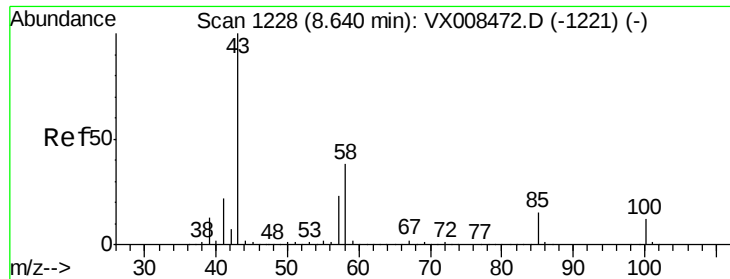


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 119.00 (118.70 to 119.70): V

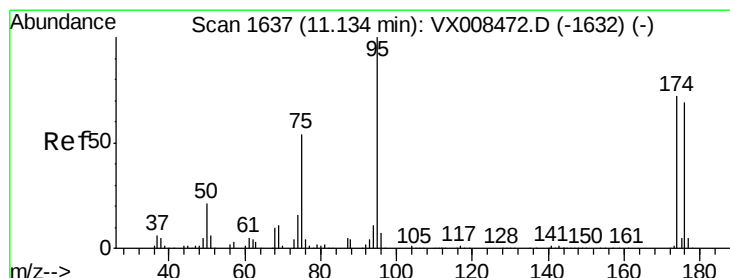
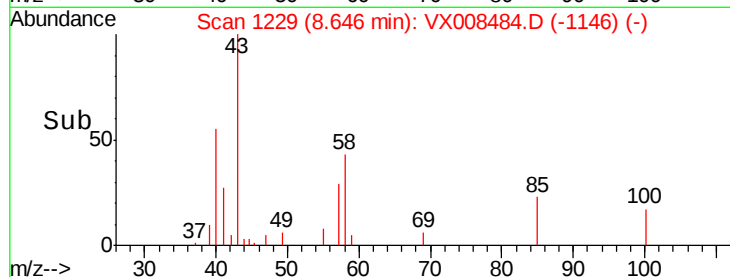
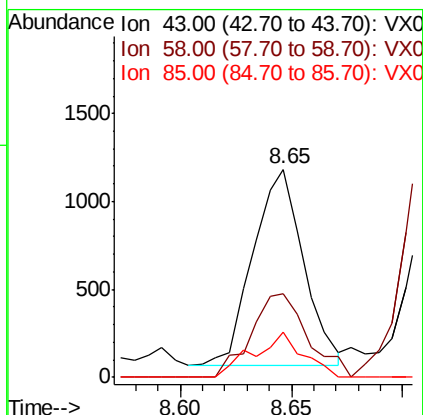
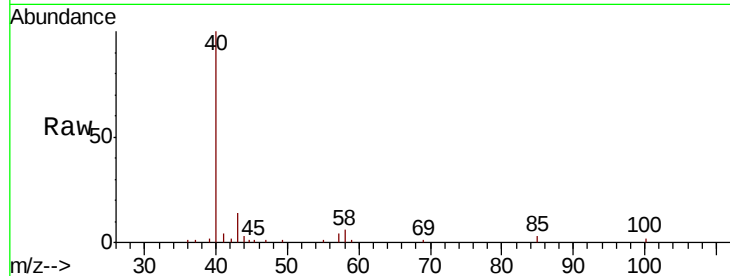




#58
4-Methyl-2-Pentanone
Concen: 0.374 ug/l
RT: 8.65 min Scan# 1229
Delta R.T. 0.01 min
Lab File: VX008484.D
Acq: 27 Mar 2019 15:52

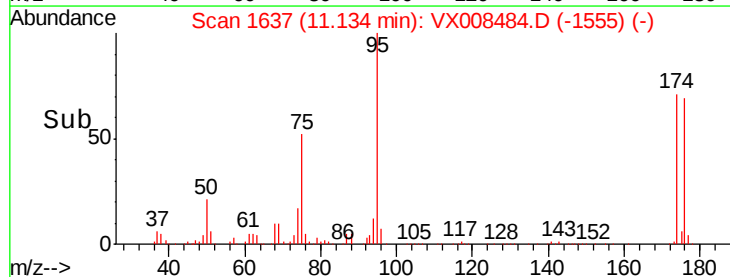
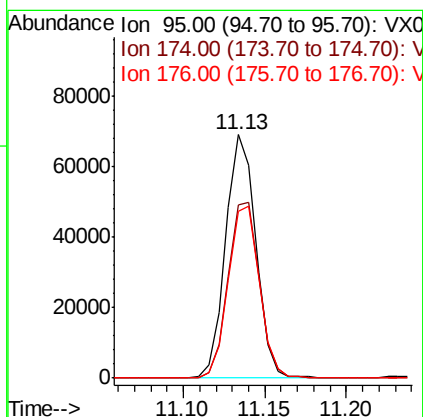
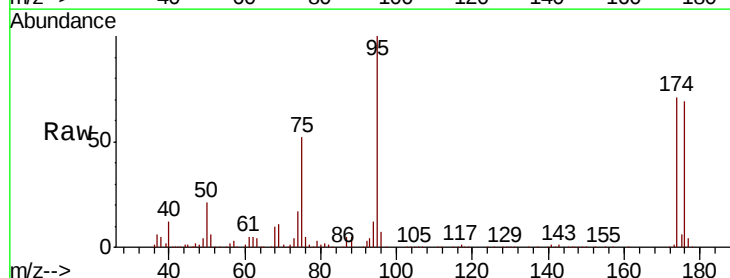
Instrument :
MSVOA_X
ClientSampleId :
MH-C05-SETTLED-1H-A

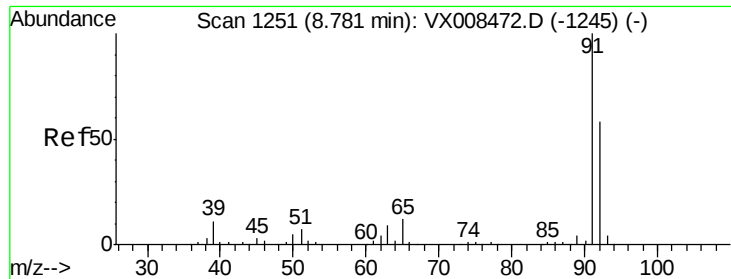
Tot Ion: 43 Resp: 1767
Ion Ratio Lower Upper
43 100
58 47.0 31.4 47.0
85 15.4 15.0 22.6



#60
4-Bromofluorobenzene
Concen: 28.581 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX008484.D
Acq: 27 Mar 2019 15:52

Tgt Ion: 95 Resp: 89295
Ion Ratio Lower Upper
95 100
174 74.2 74.9 112.3#
176 72.7 70.7 106.1





#62

Toluene

Concen: 0.694 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.01 min

Lab File: VX008484.D

Acq: 27 Mar 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

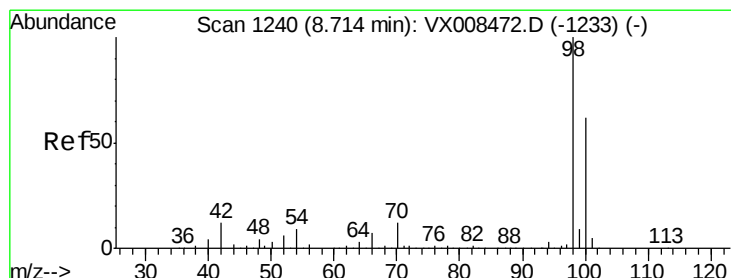
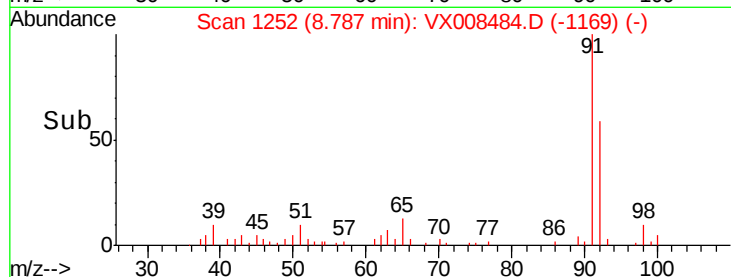
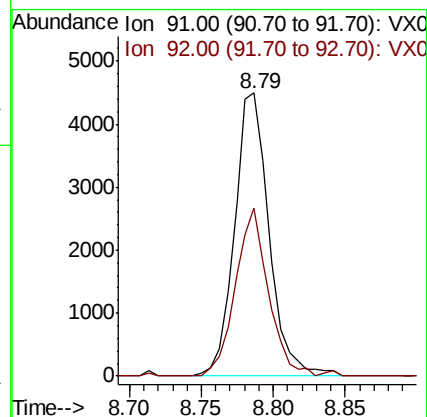
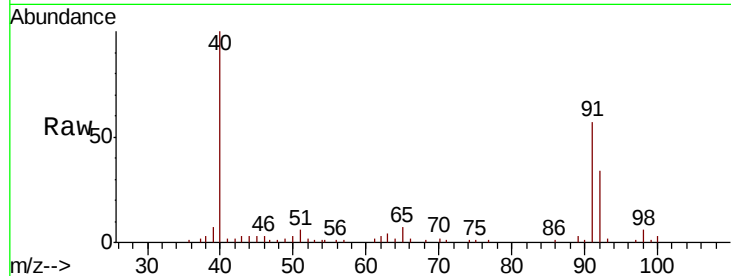
MH-C05-SETTLED-1H-A

Tot Ion: 91 Resp: 7539

Ion Ratio Lower Upper

91 100

92 55.6 46.4 69.6



#63

Toluene-d8

Concen: 30.791 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX008484.D

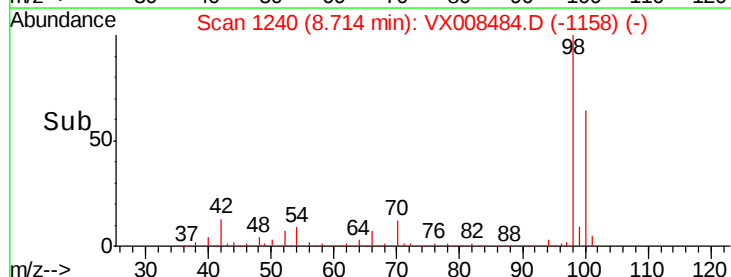
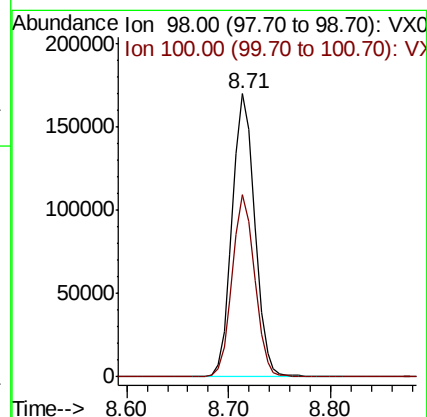
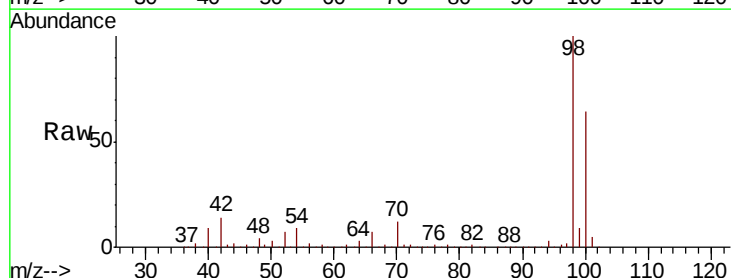
Acq: 27 Mar 2019 15:52

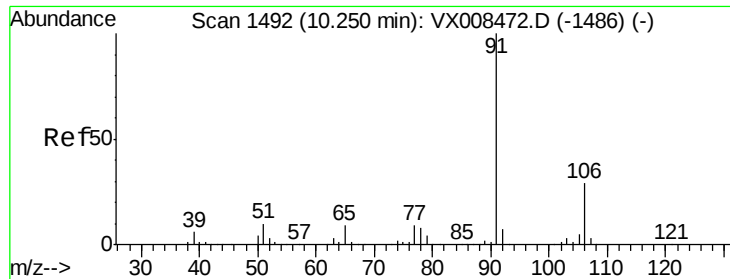
Tgt Ion: 98 Resp: 262078

Ion Ratio Lower Upper

98 100

100 63.8 50.9 76.3





#66

Ethyl Benzene

Concen: 0.605 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. 0.00 min

Lab File: VX008484.D

Acq: 27 Mar 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

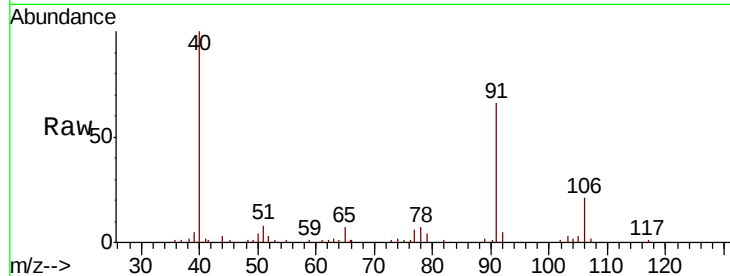
MH-C05-SETTLED-1H-A

Tot Ion: 91 Resp: 7295

Ion Ratio Lower Upper

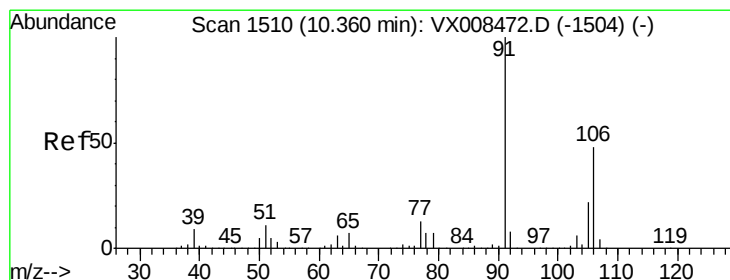
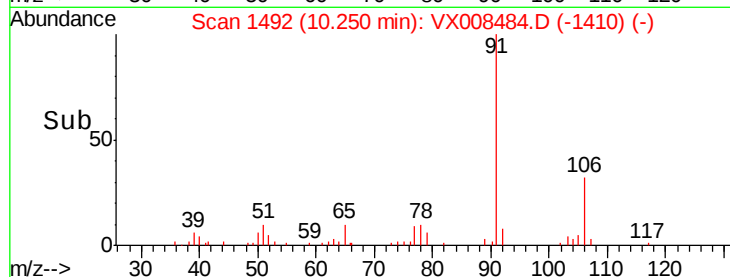
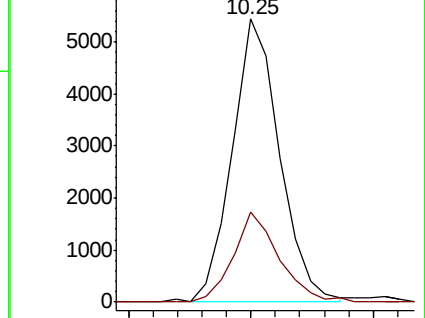
91 100

106 31.6 26.0 39.0



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V



#67

m/p-Xylenes

Concen: 2.571 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VX008484.D

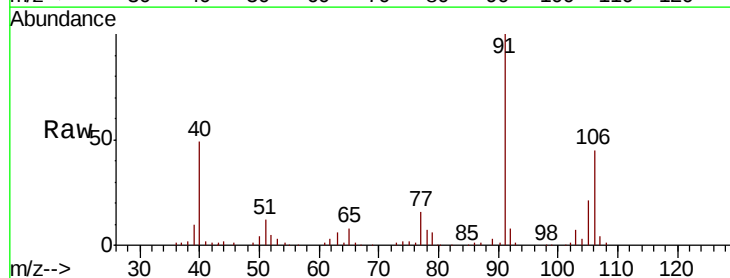
Acq: 27 Mar 2019 15:52

Tgt Ion: 106 Resp: 11301

Ion Ratio Lower Upper

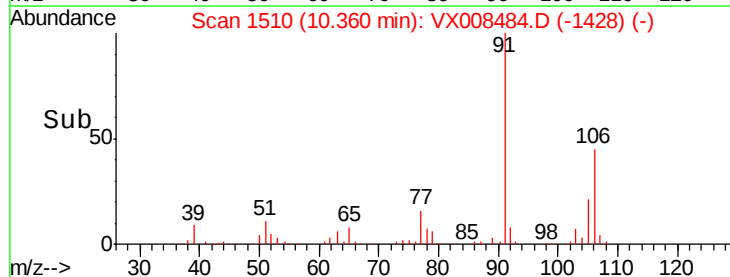
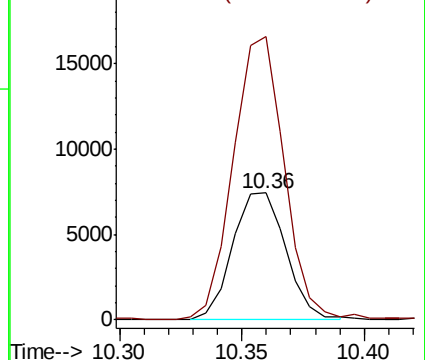
106 100

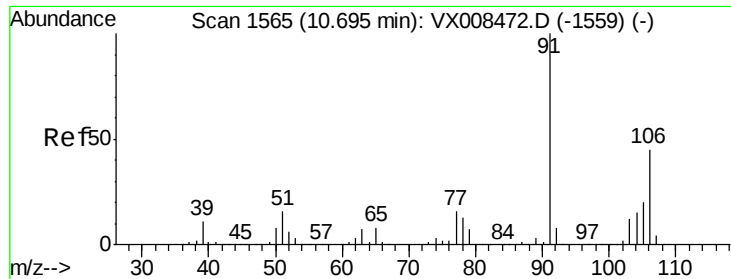
91 215.2 157.0 235.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0

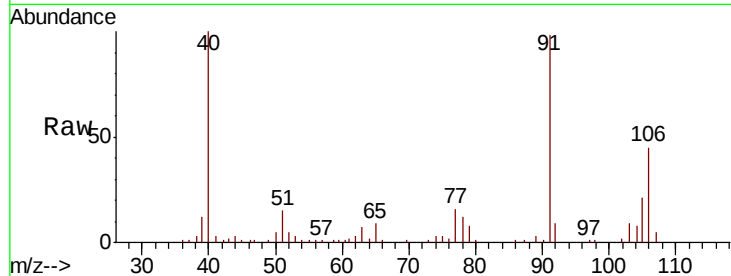




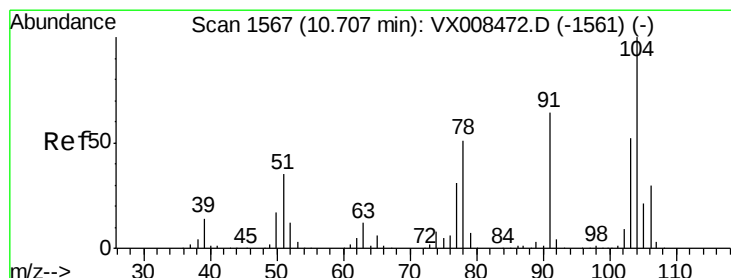
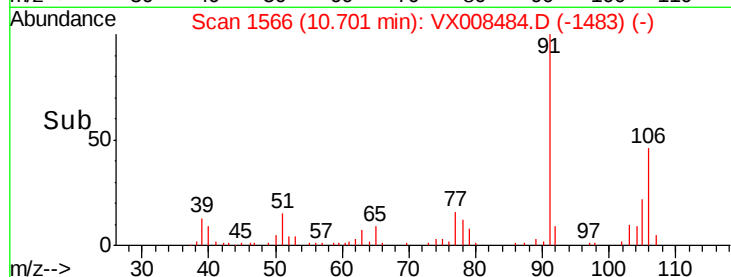
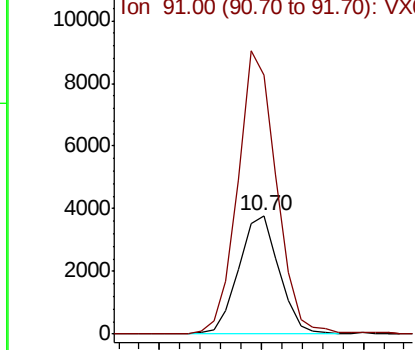
#68
o-Xylene
Concen: 1.213 ug/l
RT: 10.70 min Scan# 1566
Delta R.T. 0.01 min
Lab File: VX008484.D
Acq: 27 Mar 2019 15:52

Instrument :
MSVOA_X
ClientSampleId :
MH-C05-SETTLED-1H-A

Tot Ion:106 Resp: 5217
Ion Ratio Lower Upper
106 100
91 227.9 104.4 313.2

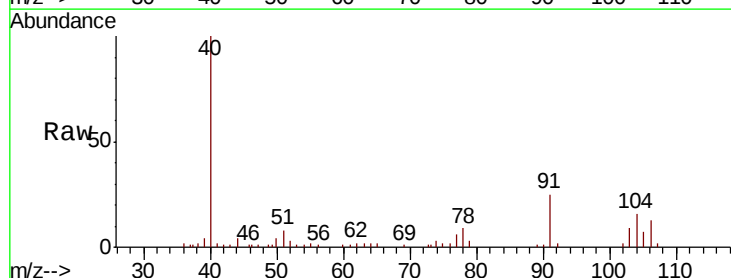


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

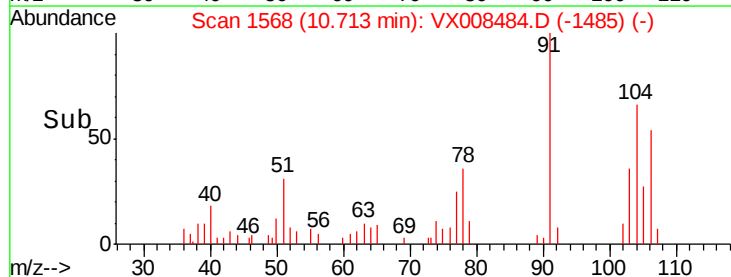
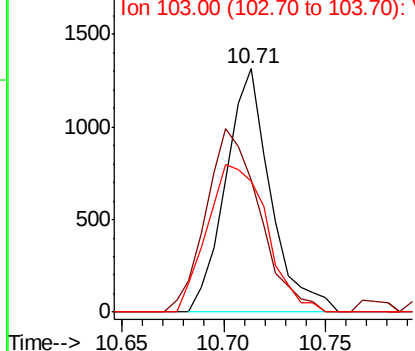


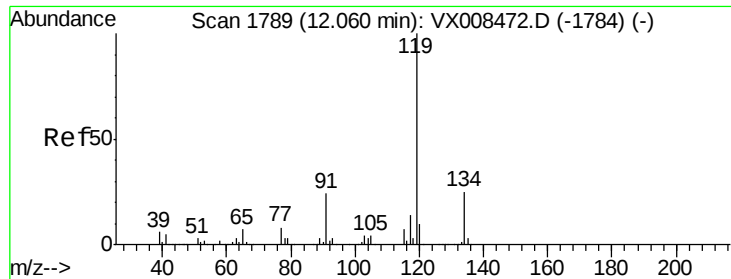
#69
Styrene
Concen: 0.267 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. 0.01 min
Lab File: VX008484.D
Acq: 27 Mar 2019 15:52

Tgt Ion:104 Resp: 2001
Ion Ratio Lower Upper
104 100
78 90.8 38.2 57.2#
103 81.2 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

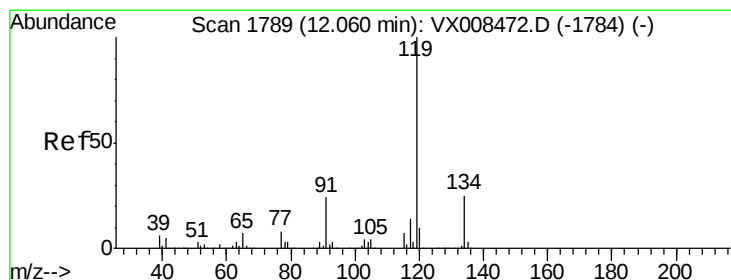
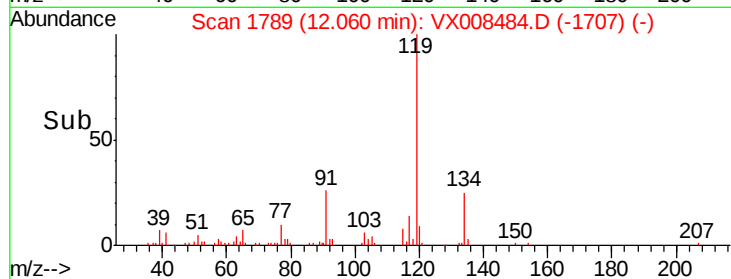
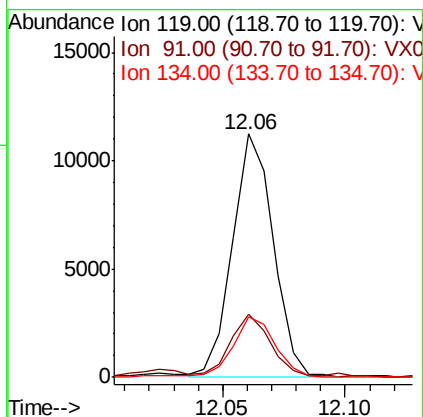
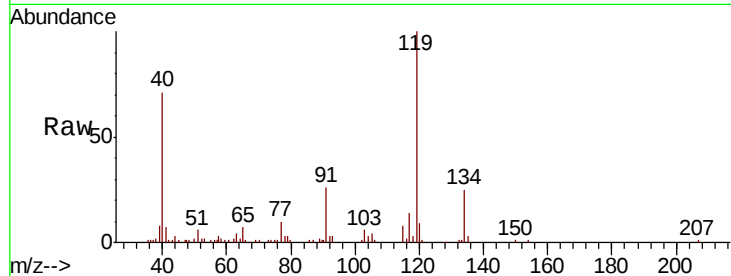




#79
tert-butylbenzene
Concen: 1.316 ug/l
RT: 12.06 min Scan# 1789
Delta R.T. 0.00 min
Lab File: VX008484.D
Acq: 27 Mar 2019 15:52

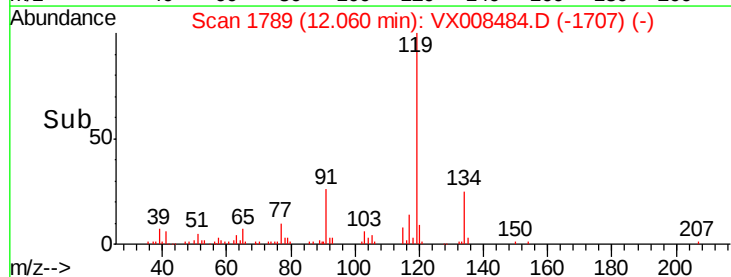
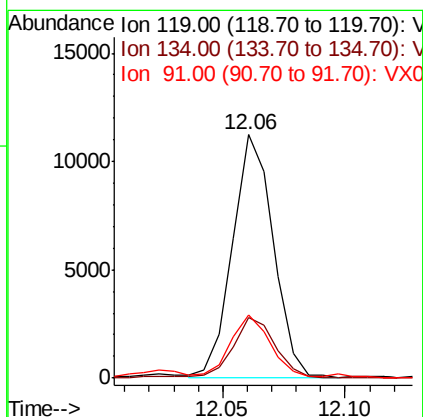
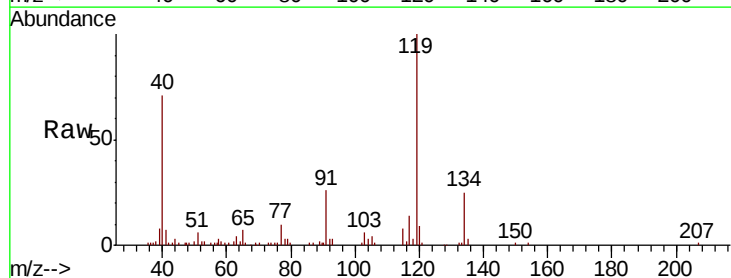
Instrument :
MSVOA_X
ClientSampleId :
MH-C05-SETTLED-1H-A

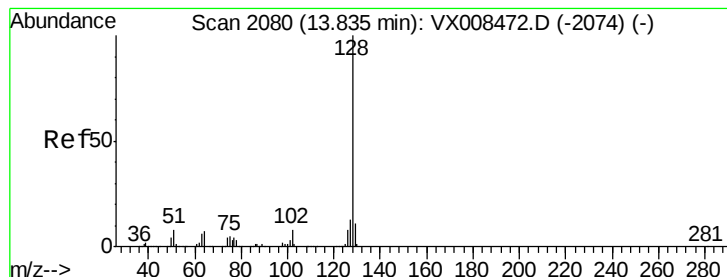
Tot Ion	Ratio	Lower	Upper
119	100		
91	25.8	0.0	45.0
134	25.4	0.0	55.4



#82
p-Isopropyltoluene
Concen: 1.316 ug/l
RT: 12.06 min Scan# 1789
Delta R.T. 0.00 min
Lab File: VX008484.D
Acq: 27 Mar 2019 15:52

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.4	0.0	55.4
91	25.8	0.0	45.0





#91

Naphthalene

Concen: 0.444 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX008484.D

Acq: 27 Mar 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

MH-C05-SETTLED-1H-A

Tot Ion:128 Resp: 5067

Ion Ratio Lower Upper

128 100

127 14.5 10.5 15.7

129 13.3 8.9 13.3

