

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032719\
 Data File : VX008486.D
 Acq On : 27 Mar 2019 16:39
 Operator : JC/SP
 Sample : K2099-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-C02-SETTLED-1H-A

Quant Time: Mar 28 02:08:14 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	35432	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	204473	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	173754	30.00	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	6.06	65	90054	30.38	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.27%
60) 4-Bromofluorobenzene	11.13	95	87712	28.97	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.57%
63) Toluene-d8	8.71	98	253796	30.77	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.57%

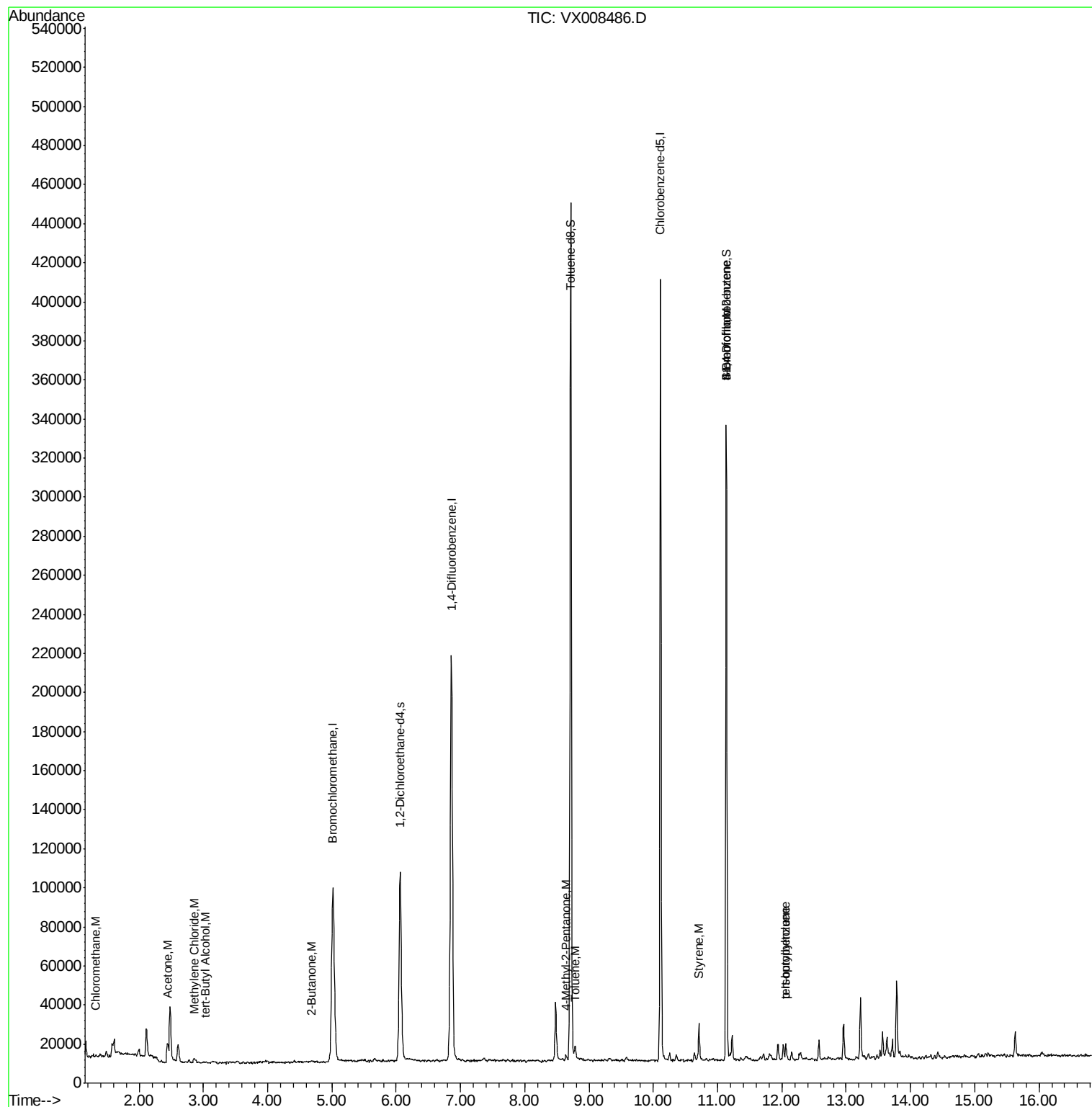
Target Compounds					Ovalue
3) Chloromethane	1.32	50	711	0.224 ug/l	100
15) Acetone	2.44	58	3508	6.766 ug/l	89
18) Methylene Chloride	2.85	84	938	0.350 ug/l #	84
23) tert-Butyl Alcohol	3.04	59	500	0.736 ug/l #	89
30) 2-Butanone	4.68	43	1071	0.423 ug/l #	97
56) Bromoform	11.13	173	610	0.332 ug/l #	1
58) 4-Methyl-2-Pentanone	8.64	43	1579	0.344 ug/l #	87
62) Toluene	8.79	91	3383	0.322 ug/l	93
69) Styrene	10.71	104	6966	0.961 ug/l	94
77) t-1,4-Dichloro-2-butene	11.13	75	43689	32.809 ug/l #	6
79) tert-butylbenzene	12.06	119	3064	0.319 ug/l	91
82) p-Isopropyltoluene	12.06	119	3064	0.319 ug/l	91

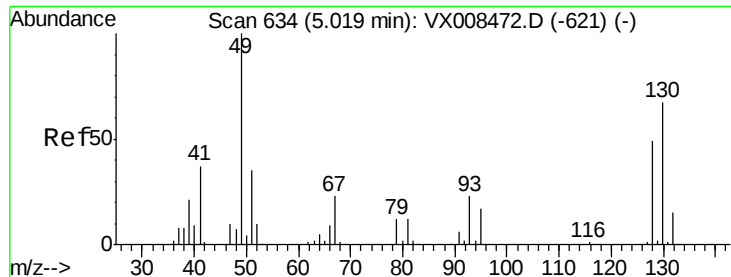
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX008486.D

Acq: 27 Mar 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

MH-C02-SETTLED-1H-A

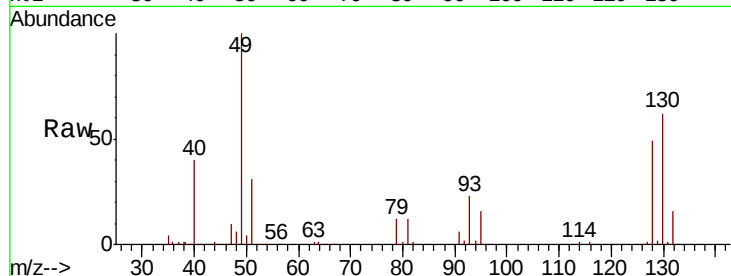
Tot Ion:128 Resp: 35432

Ion Ratio Lower Upper

128 100

49 205.0 0.0 350.8

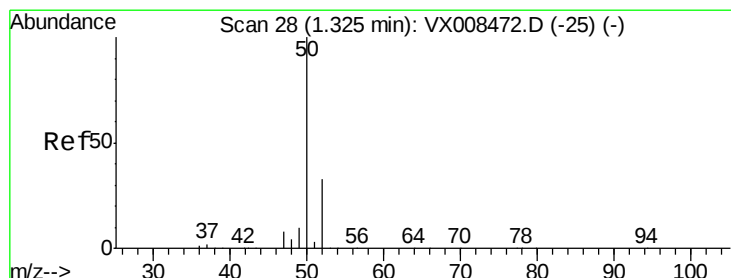
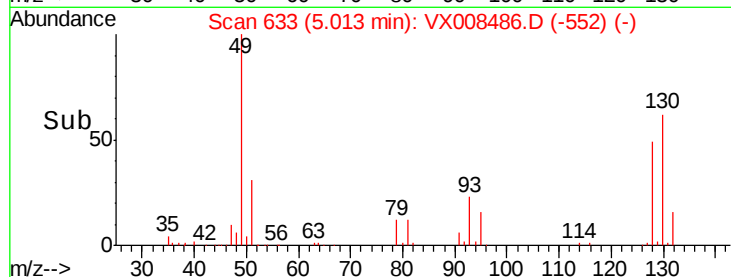
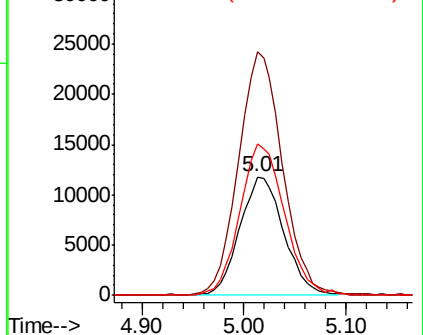
130 128.4 0.0 325.8



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



#3

Chloromethane

Concen: 0.224 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX008486.D

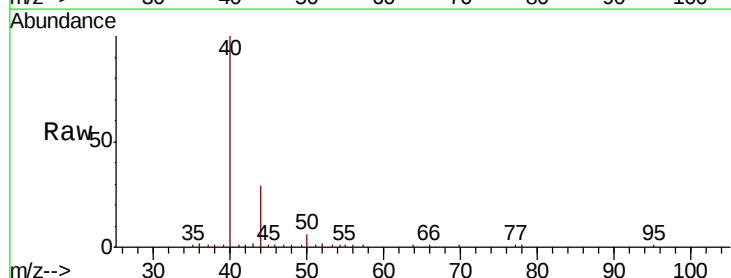
Acq: 27 Mar 2019 16:39

Tgt Ion: 50 Resp: 711

Ion Ratio Lower Upper

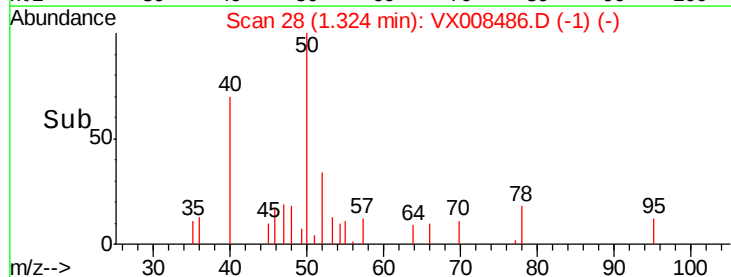
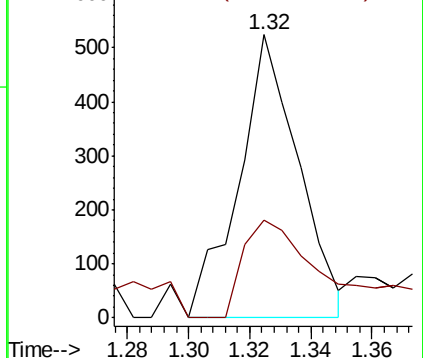
50 100

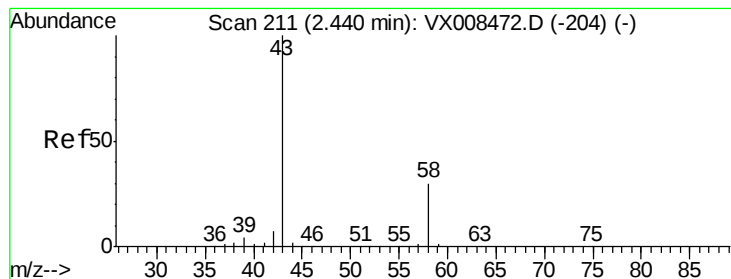
52 34.4 27.5 41.3



Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#15

Acetone

Concen: 6.766 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.00 min

Lab File: VX008486.D

Acq: 27 Mar 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

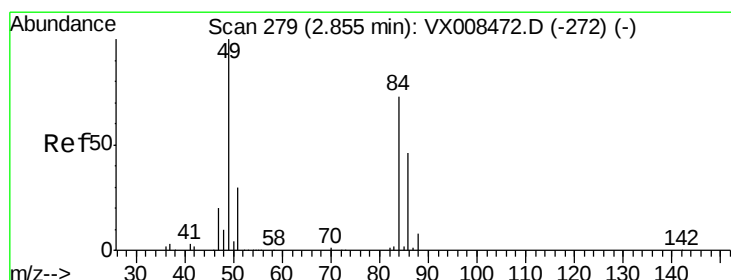
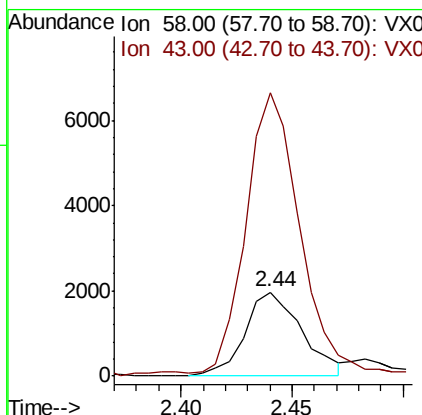
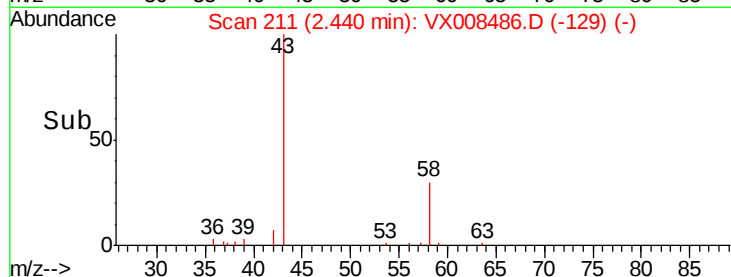
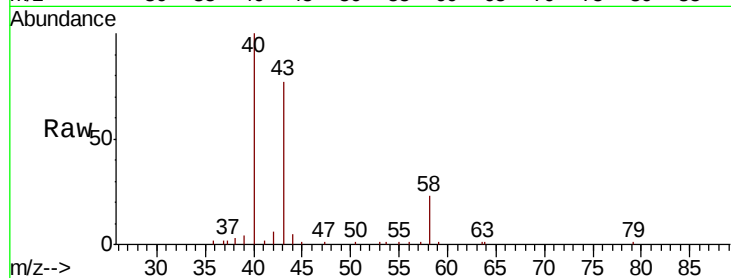
MH-C02-SETTLED-1H-A

Tot Ion: 58 Resp: 3508

Ion Ratio Lower Upper

58 100

43 334.0 249.8 374.6



#18

Methylene Chloride

Concen: 0.350 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.00 min

Lab File: VX008486.D

Acq: 27 Mar 2019 16:39

Tgt Ion: 84 Resp: 938

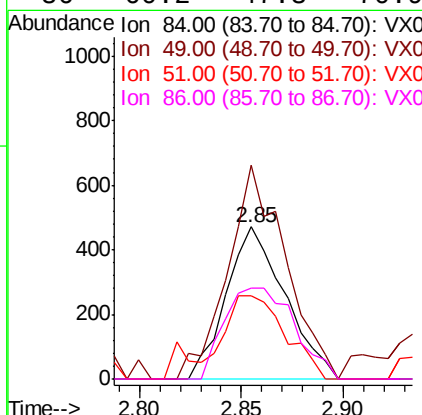
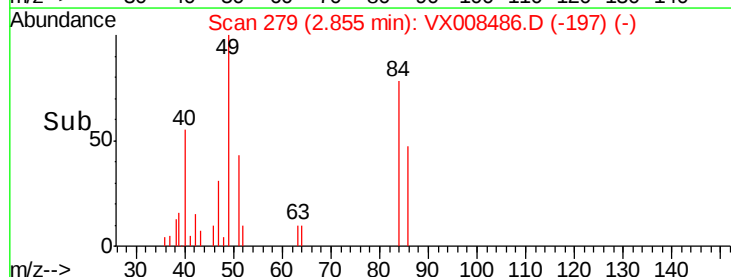
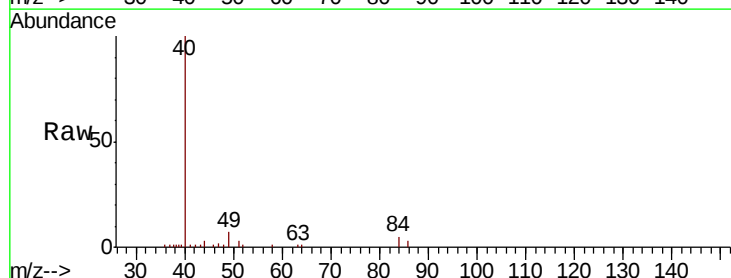
Ion Ratio Lower Upper

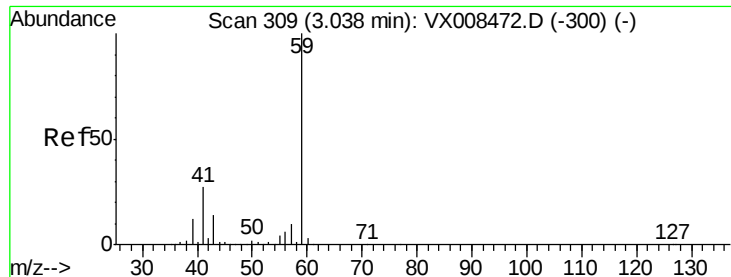
84 100

49 140.6 96.1 144.1

51 54.5 29.1 43.7#

86 60.2 47.3 70.9





#23

tert-Butyl Alcohol

Concen: 0.736 ug/l

RT: 3.04 min Scan# 309

Delta R.T. -0.00 min

Lab File: VX008486.D

Acq: 27 Mar 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

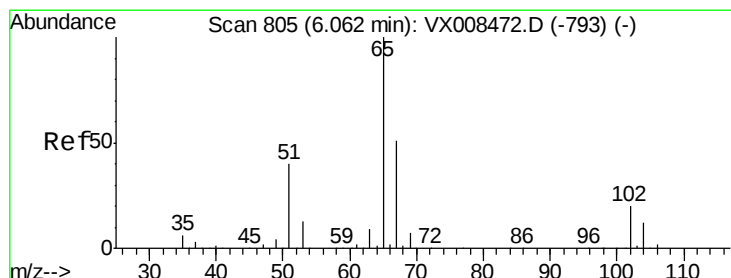
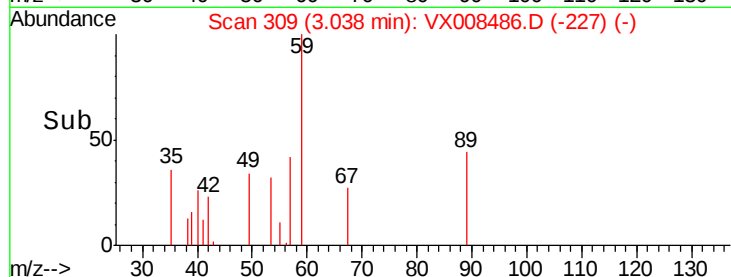
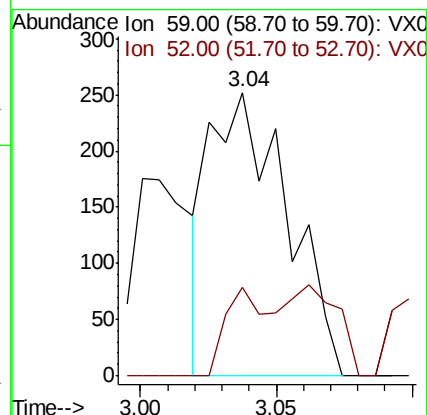
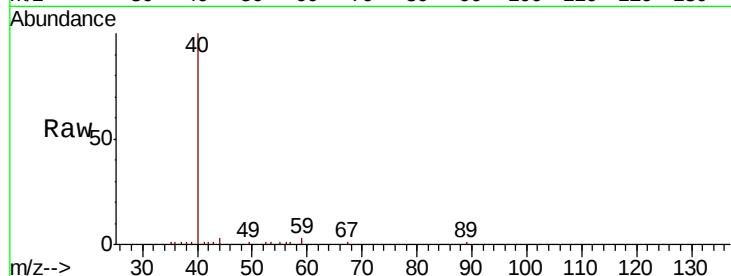
MH-C02-SETTLED-1H-A

Tot Ion: 59 Resp: 500

Ion Ratio Lower Upper

59 100

52 13.8 0.2 0.2#



#27

1,2-Dichloroethane-d4

Concen: 30.382 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008486.D

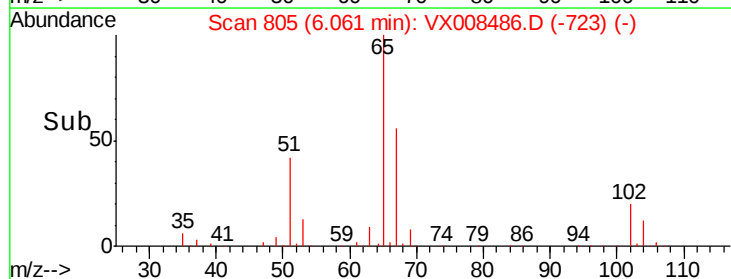
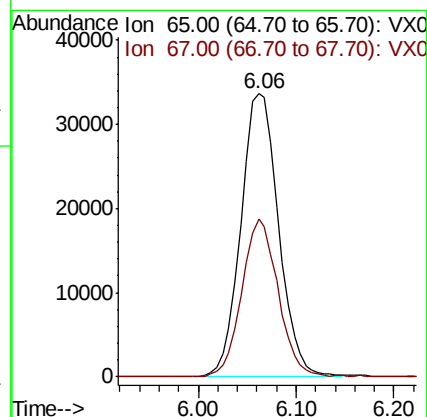
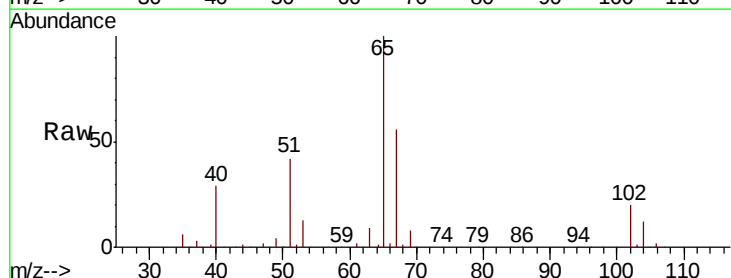
Acq: 27 Mar 2019 16:39

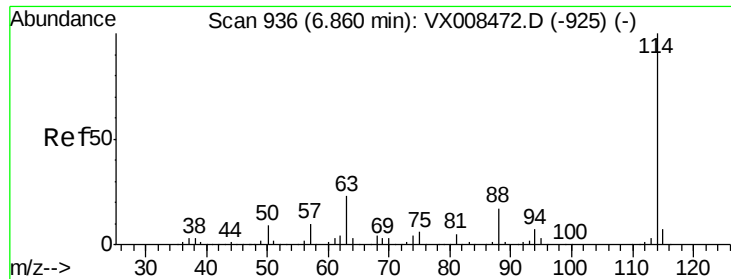
Tgt Ion: 65 Resp: 90054

Ion Ratio Lower Upper

65 100

67 53.6 42.9 64.3

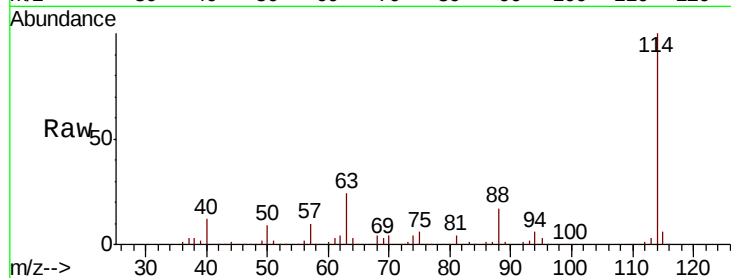




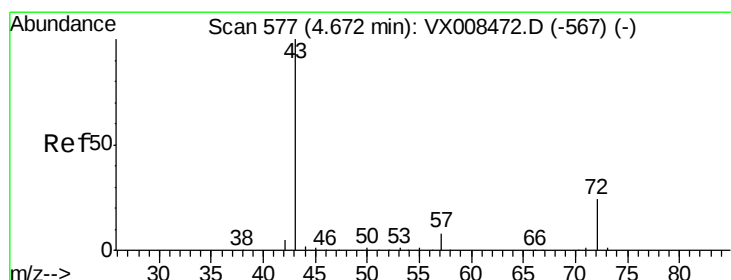
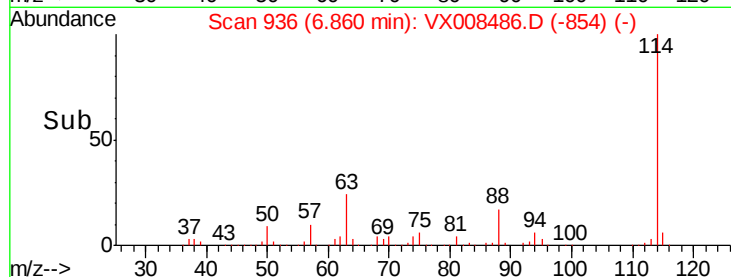
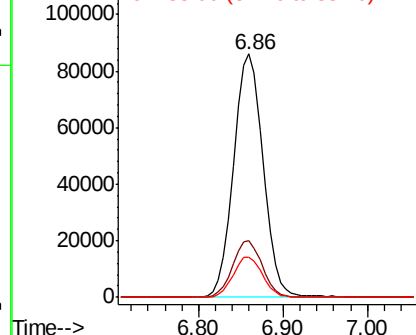
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008486.D
 Acq: 27 Mar 2019 16:39

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-C02-SETTLED-1H-A

Tot Ion:114 Resp: 204473
 Ion Ratio Lower Upper
 114 100
 63 23.5 14.2 21.4#
 88 16.6 11.9 17.9

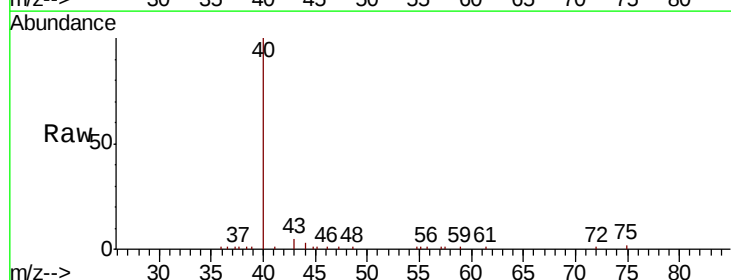


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 88.00 (87.70 to 88.70): VX0

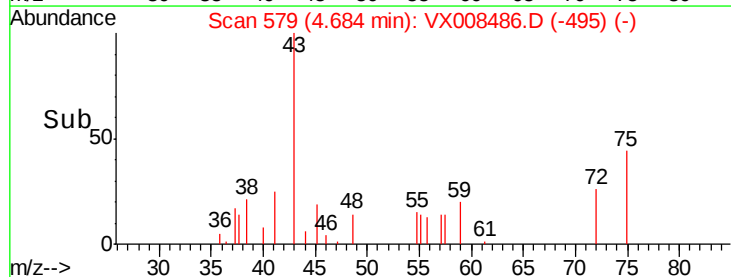
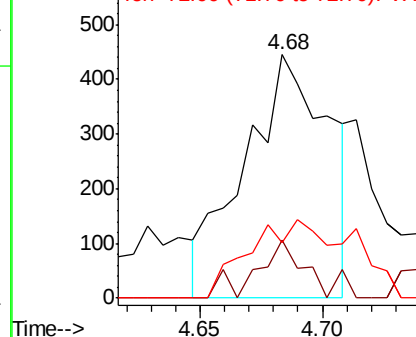


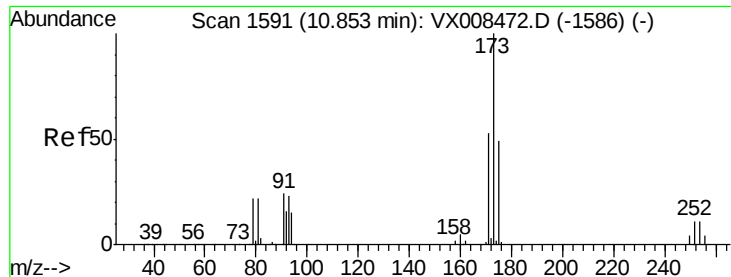
#30
 2-Butanone
 Concen: 0.423 ug/l
 RT: 4.68 min Scan# 579
 Delta R.T. 0.01 min
 Lab File: VX008486.D
 Acq: 27 Mar 2019 16:39

Tgt Ion: 43 Resp: 1071
 Ion Ratio Lower Upper
 43 100
 57 11.3 7.0 10.6#
 72 27.8 21.5 32.3



Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 57.00 (56.70 to 57.70): VX0
 Ion 72.00 (71.70 to 72.70): VX0





#56

Bromoform

Concen: 0.332 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.28 min

Lab File: VX008486.D

Acq: 27 Mar 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

MH-C02-SETTLED-1H-A

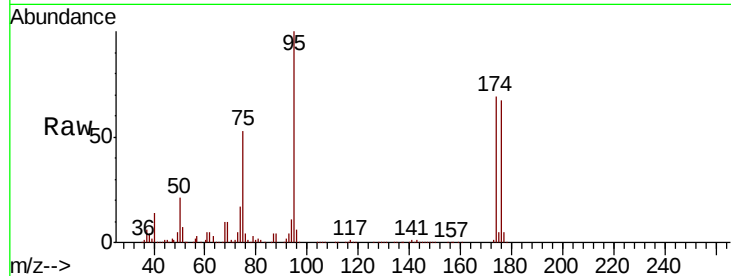
Tot Ion:173 Resp: 610

Ion Ratio Lower Upper

173 100

175 796.9 38.5 57.7#

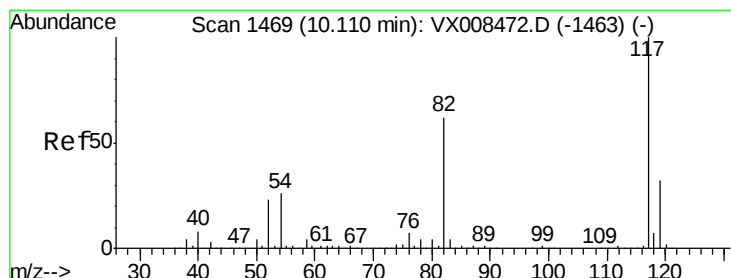
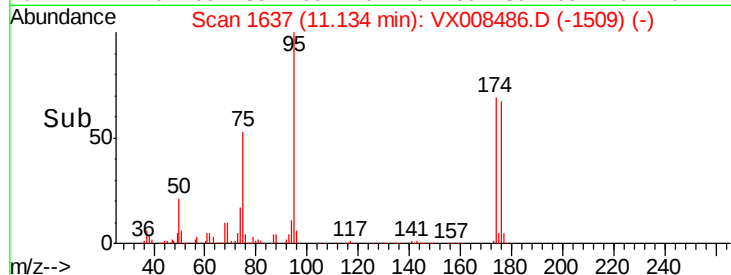
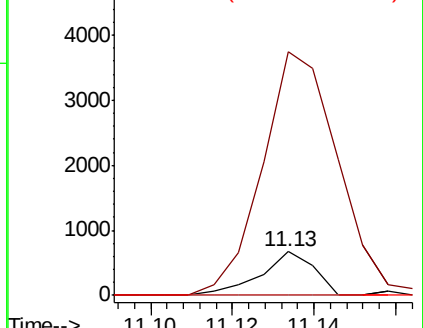
254 0.0 7.4 11.2#



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: VX008486.D

Acq: 27 Mar 2019 16:39

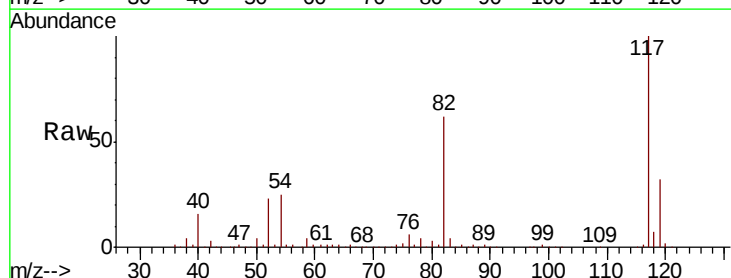
Tgt Ion:117 Resp: 173754

Ion Ratio Lower Upper

117 100

82 60.9 40.4 60.6#

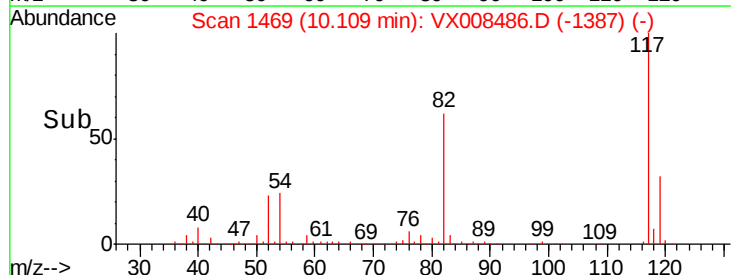
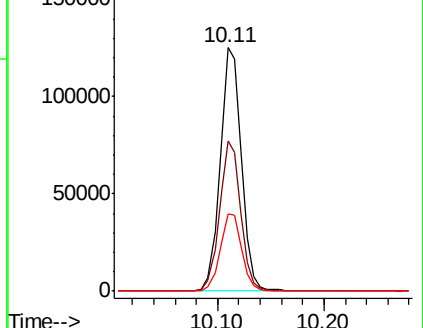
119 32.1 25.8 38.6

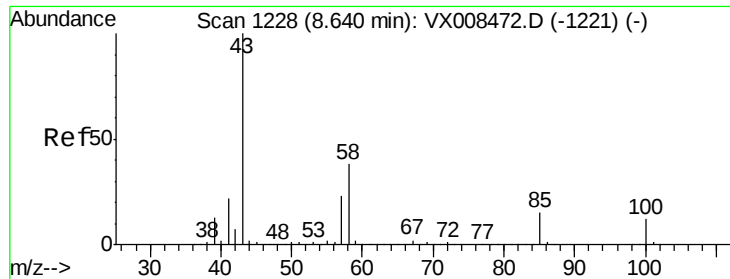


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V

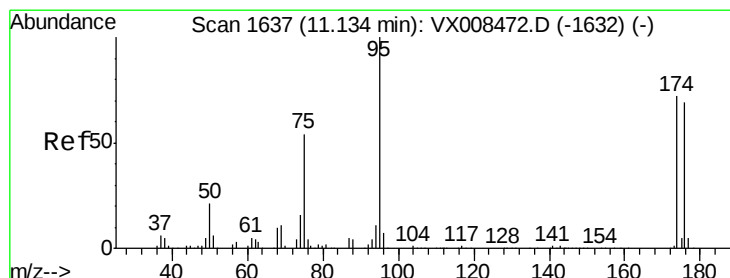
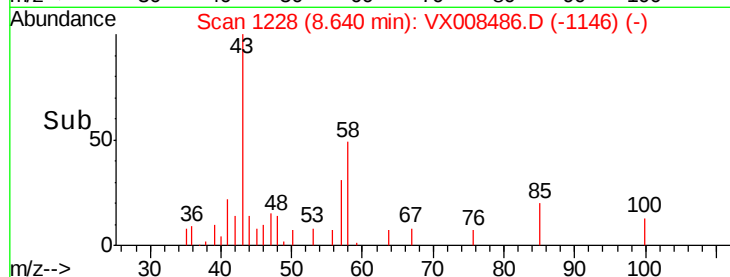
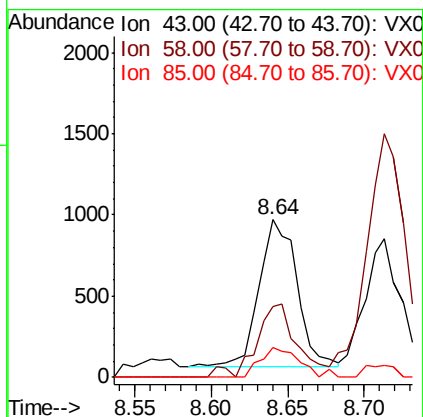
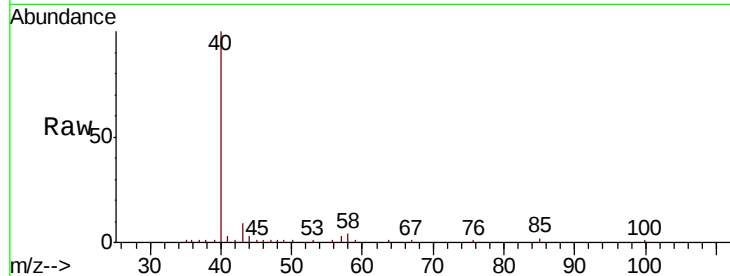




#58
4-Methyl-2-Pentanone
Concen: 0.344 ug/l
RT: 8.64 min Scan# 1228
Delta R.T. -0.00 min
Lab File: VX008486.D
Acq: 27 Mar 2019 16:39

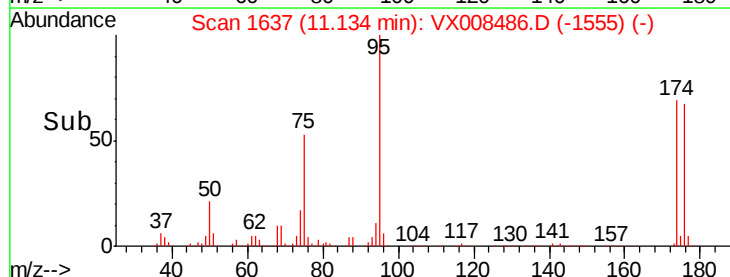
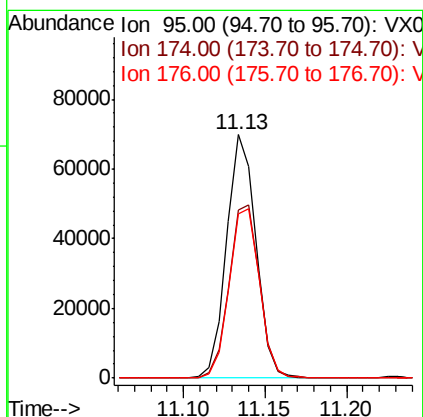
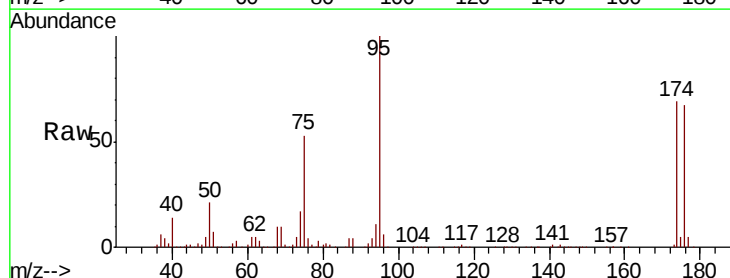
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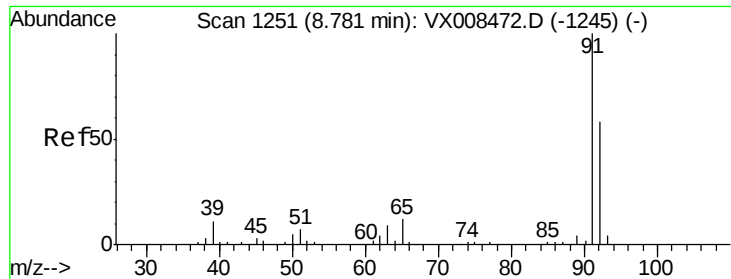
Tot Ion: 43 Resp: 1579
Ion Ratio Lower Upper
43 100
58 50.3 31.4 47.0#
85 19.6 15.0 22.6



#60
4-Bromofluorobenzene
Concen: 28.973 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX008486.D
Acq: 27 Mar 2019 16:39

Tgt Ion: 95 Resp: 87712
Ion Ratio Lower Upper
95 100
174 73.4 74.9 112.3#
176 71.8 70.7 106.1





#62

Toluene

Concen: 0.322 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.01 min

Lab File: VX008486.D

Acq: 27 Mar 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

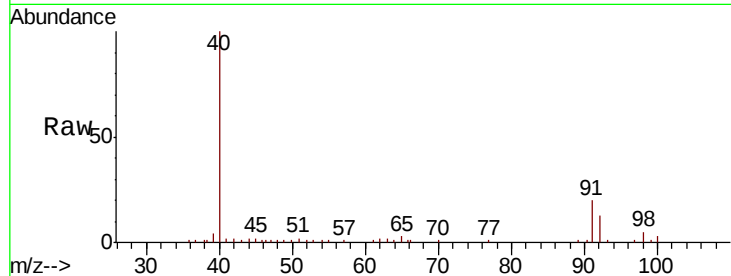
MH-C02-SETTLED-1H-A

Tot Ion: 91 Resp: 3383

Ion Ratio Lower Upper

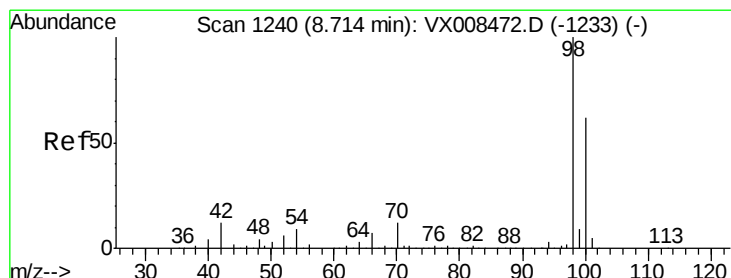
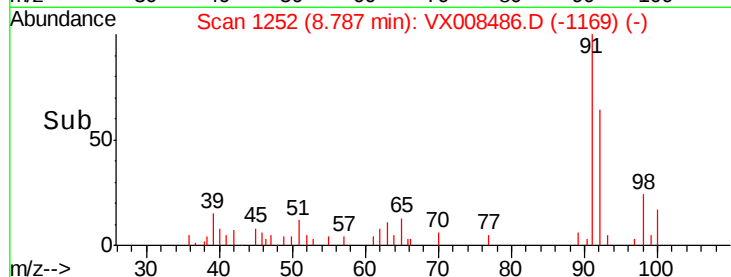
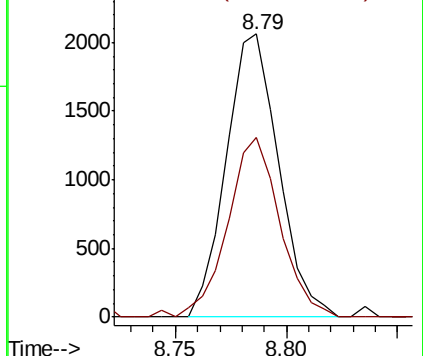
91 100

92 62.9 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: 30.772 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008486.D

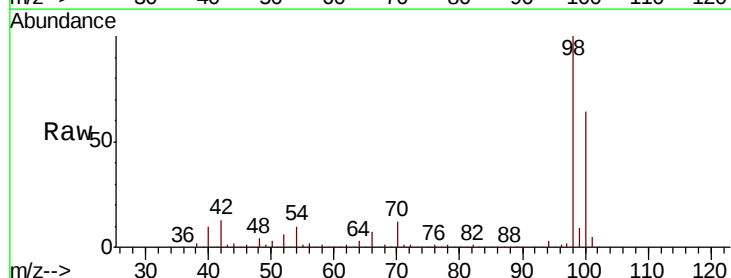
Acq: 27 Mar 2019 16:39

Tgt Ion: 98 Resp: 253796

Ion Ratio Lower Upper

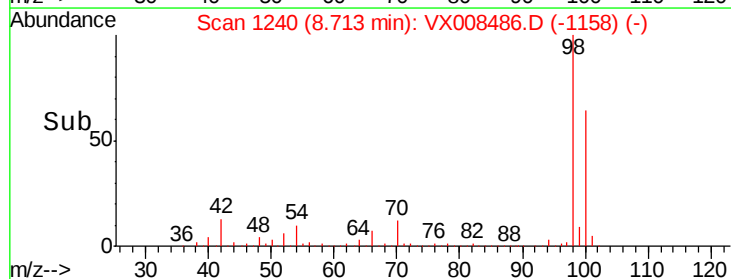
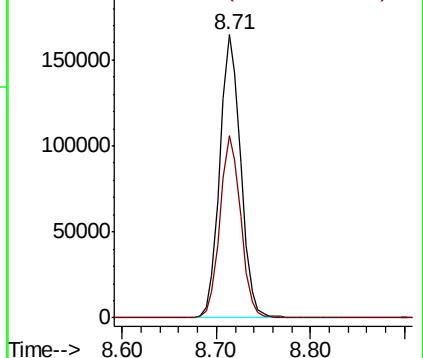
98 100

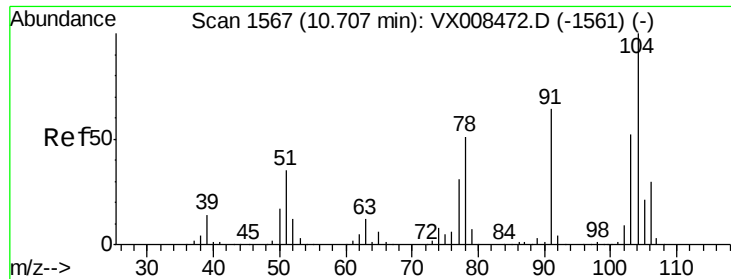
100 63.9 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

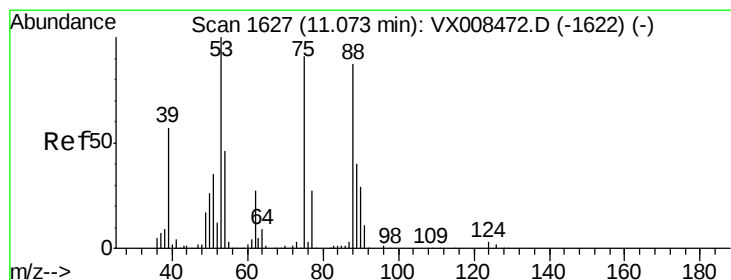
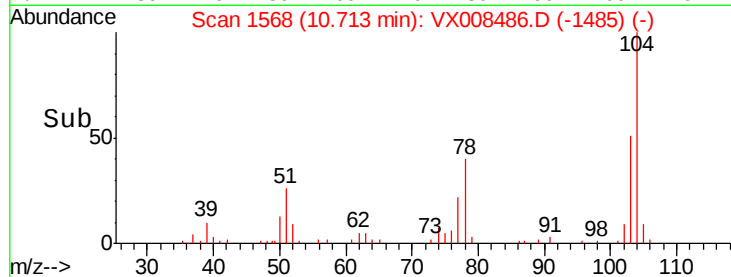
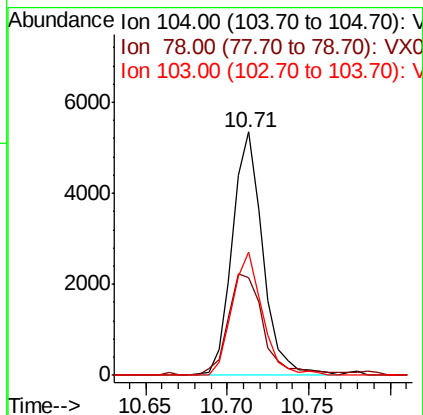
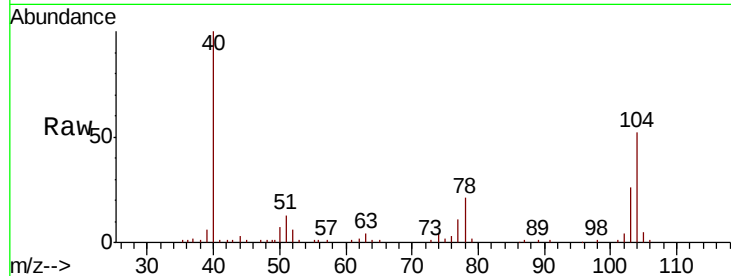




#69
Stvrene
Concen: 0.961 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. 0.01 min
Lab File: VX008486.D
Acq: 27 Mar 2019 16:39

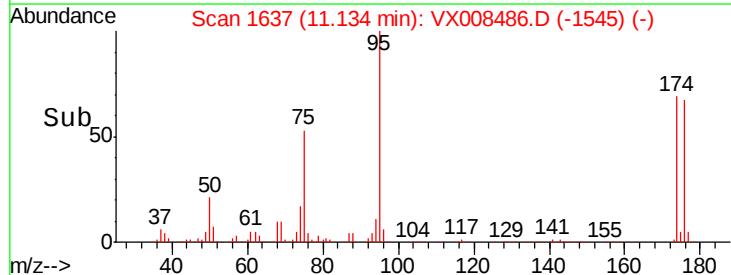
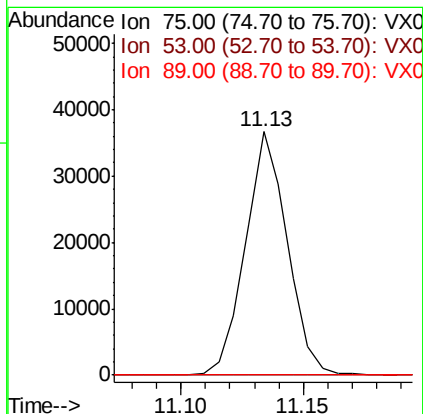
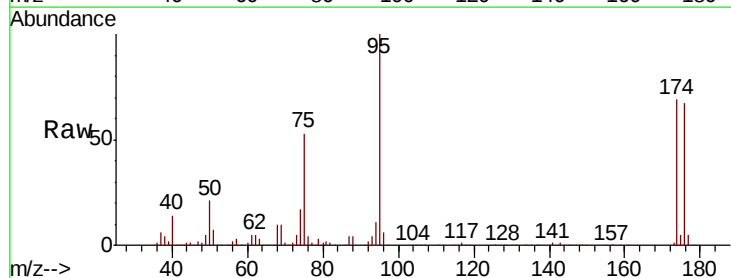
Instrument :
MSVOA_X
ClientSampleId :
MH-C02-SETTLED-1H-A

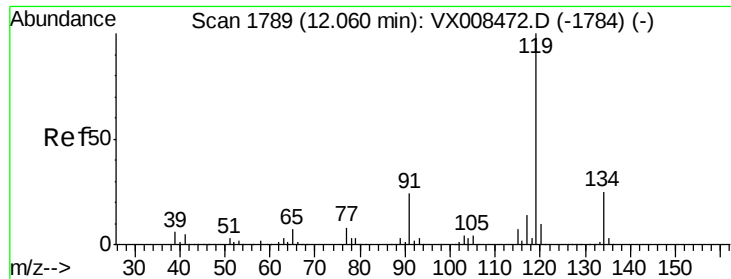
Tot Ion:104 Resp: 6966
Ion Ratio Lower Upper
104 100
78 49.0 38.2 57.2
103 49.6 45.0 67.4



#77
t-1,4-Dichloro-2-butene
Concen: 32.809 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX008486.D
Acq: 27 Mar 2019 16:39

Tgt Ion: 75 Resp: 43689
Ion Ratio Lower Upper
75 100
53 0.1 55.5 166.7#
89 0.0 24.4 73.2#





#79

tert-butylbenzene

Concen: 0.319 ug/l

RT: 12.06 min Scan# 1789

Delta R.T. -0.00 min

Lab File: VX008486.D

Acq: 27 Mar 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

MH-C02-SETTLED-1H-A

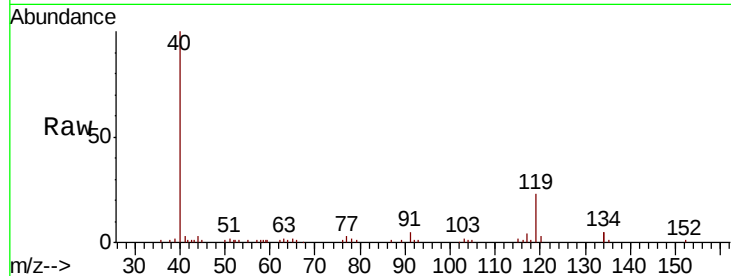
Tot Ion:119 Resp: 3064

Ion Ratio Lower Upper

119 100

91 25.9 0.0 45.0

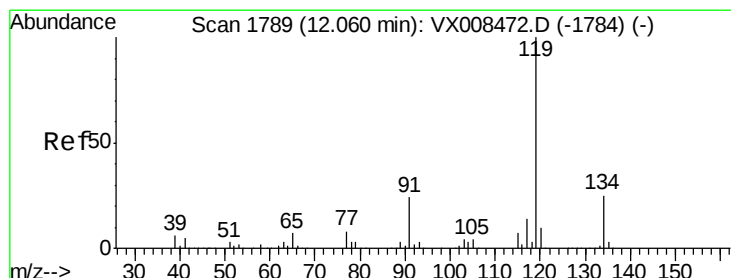
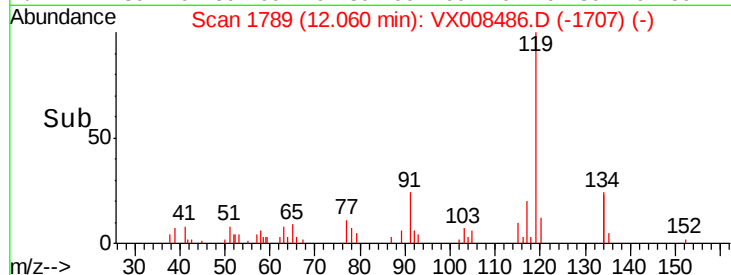
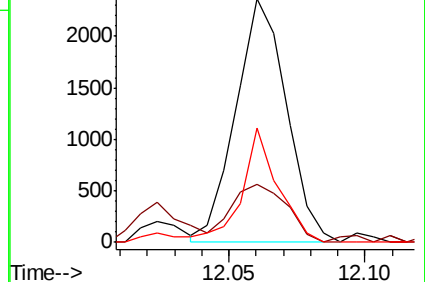
134 33.0 0.0 55.4



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: 0.319 ug/l

RT: 12.06 min Scan# 1789

Delta R.T. -0.00 min

Lab File: VX008486.D

Acq: 27 Mar 2019 16:39

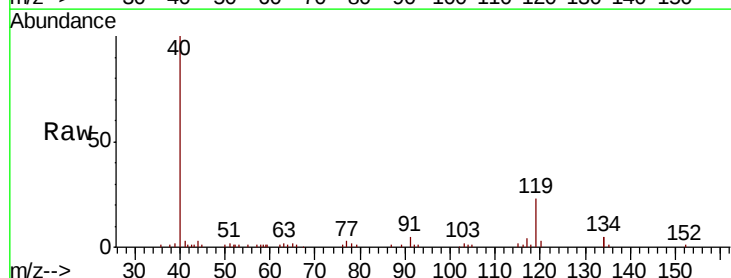
Tgt Ion:119 Resp: 3064

Ion Ratio Lower Upper

119 100

134 33.0 0.0 55.4

91 25.9 0.0 45.0



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VX0

