

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081518\
 Data File : VN050672.D
 Acq On : 15 Aug 2018 23:04
 Operator : MD\SY
 Sample : J4458-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MH-93

Quant Time: Aug 16 04:24:53 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 26 15:21:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	111833	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	547795	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	458466	30.00	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.03	65	232295	30.56	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.87%
60) 4-Bromofluorobenzene	12.40	95	152545	21.66	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	72.20%
63) Toluene-d8	10.09	98	637381	29.11	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.03%

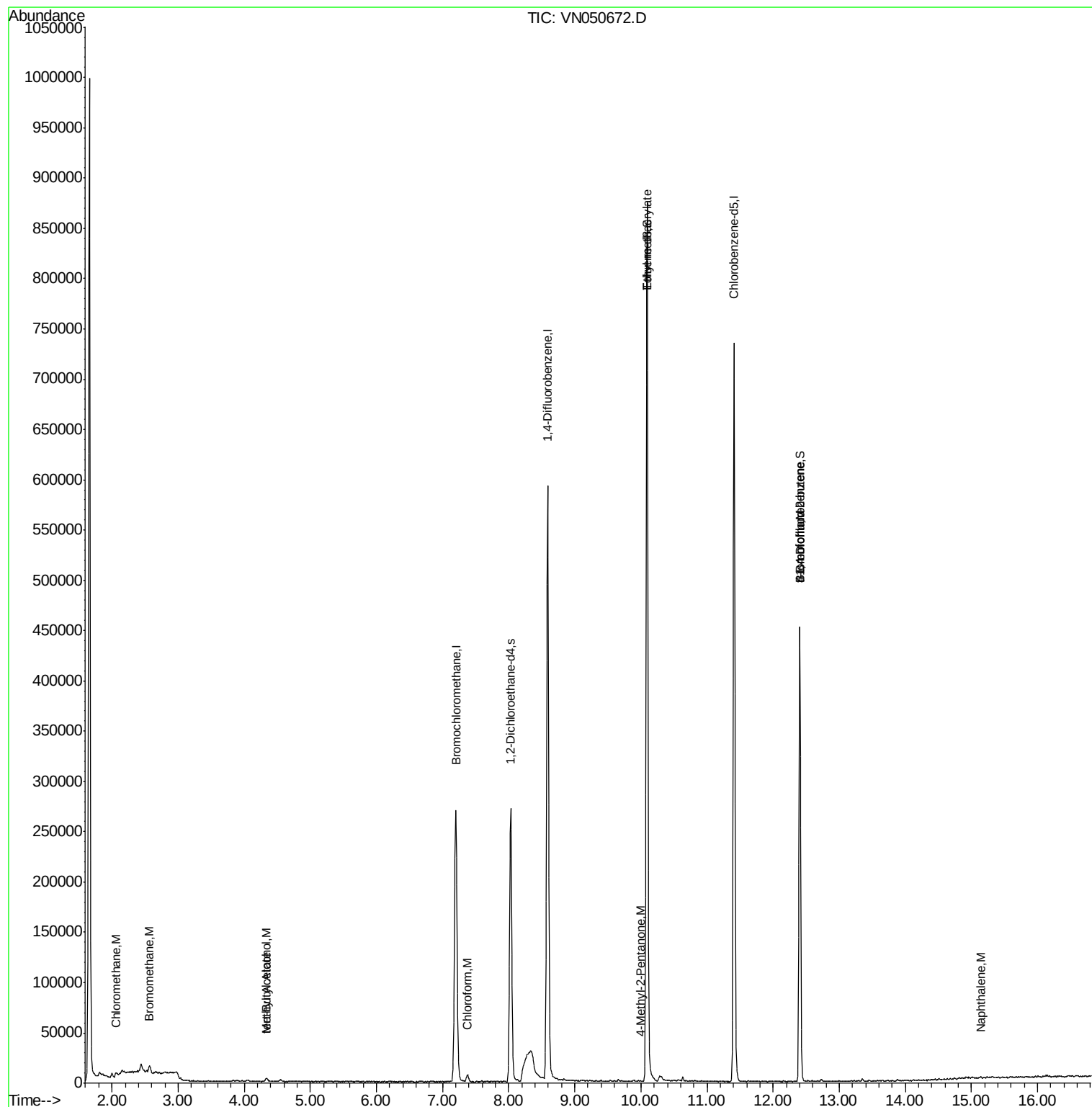
Target Compounds						Ovalue
3) Chloromethane	2.06	50	2425	0.31	ug/l	97
5) Bromomethane	2.57	94	3579	0.69	ug/l	92
12) Methyl Acetate	4.33	43	6395	0.94	ug/l	95
23) tert-Butyl Alcohol	4.34	59	163	0.32	ug/l #	100
25) Chloroform	7.37	83	7420	0.60	ug/l	97
51) Ethyl methacrylate	10.10	69	2241	0.31	ug/l	93
56) Bromoform	12.40	173	1834	0.38	ug/l #	1
58) 4-Methyl-2-Pentanone	9.99	43	1160	0.22	ug/l #	43
77) t-1,4-Dichloro-2-butene	12.40	75	73149	36.60	ug/l #	14
91) Naphthalene	15.14	128	1703	7.74	ug/l #	74

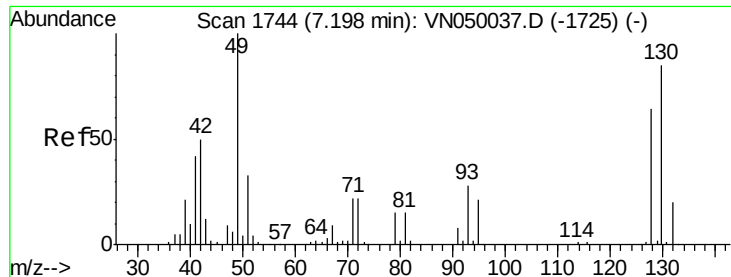
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 16 04:24:53 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Jul 26 15:21:50 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 7.20 min Scan# 1745

Delta R.T. 0.00 min

Lab File: VN050672.D

Acq: 15 Aug 2018 23:04

Instrument :

MSVOA_N

ClientSampled :

MH-93

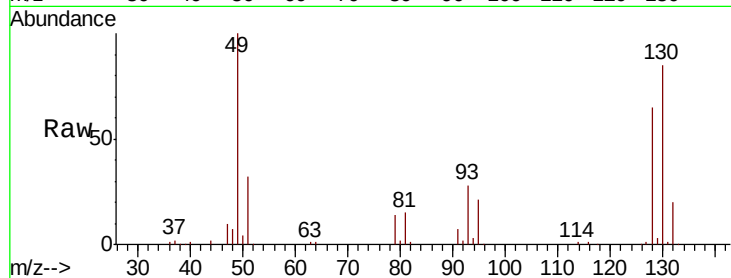
Tot Ion:128 Resp: 111833

Ion Ratio Lower Upper

128 100

49 154.4 0.0 378.3

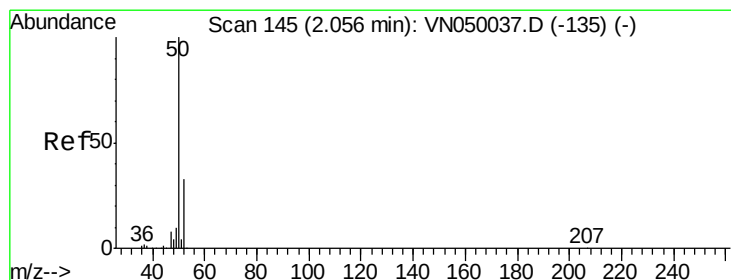
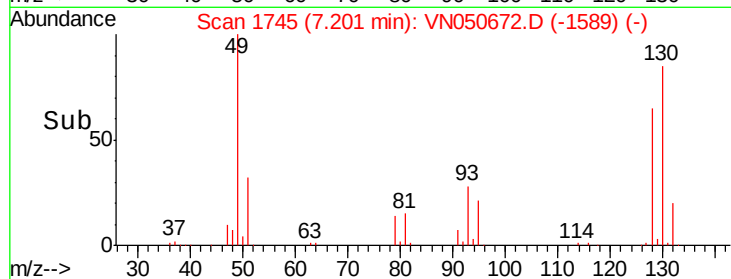
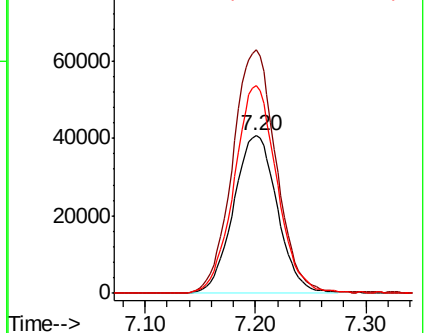
130 129.3 0.0 320.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.31 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050672.D

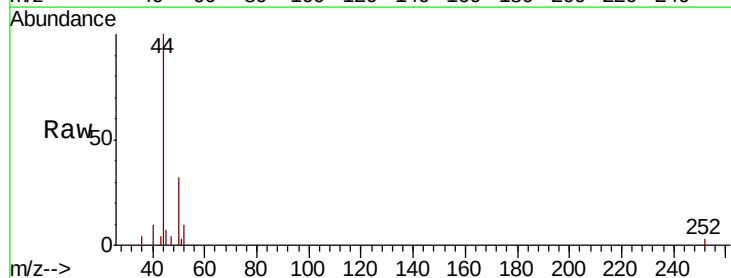
Acq: 15 Aug 2018 23:04

Tgt Ion: 50 Resp: 2425

Ion Ratio Lower Upper

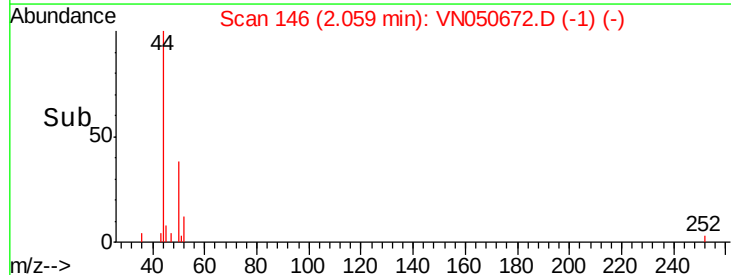
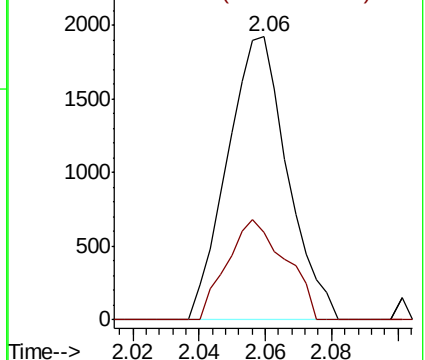
50 100

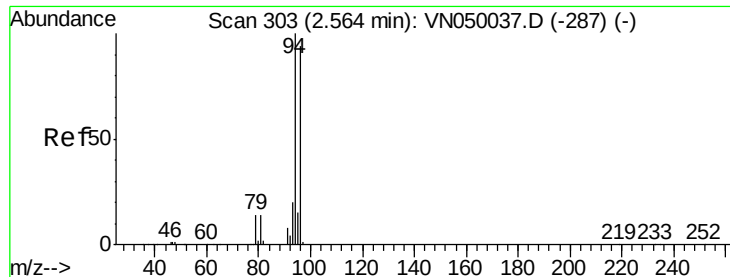
52 31.1 26.1 39.1



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0





#5

Bromomethane

Concen: 0.69 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.00 min

Lab File: VN050672.D

Acq: 15 Aug 2018 23:04

Instrument :

MSVOA_N

ClientSampled :

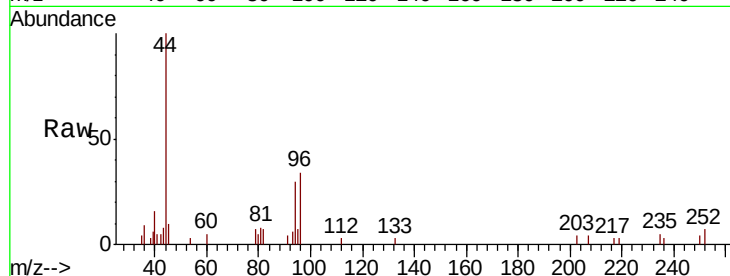
MH-93

Tot Ion: 94 Resp: 3579

Ion Ratio Lower Upper

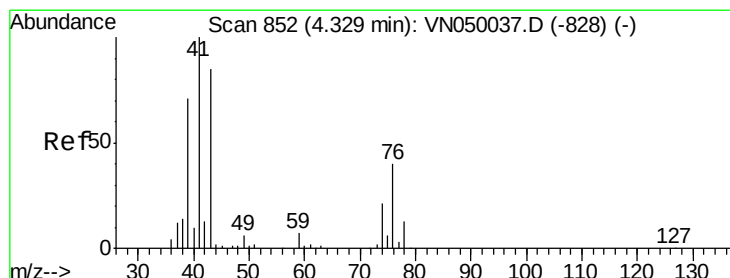
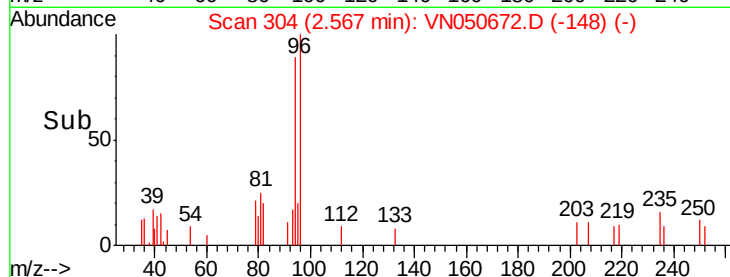
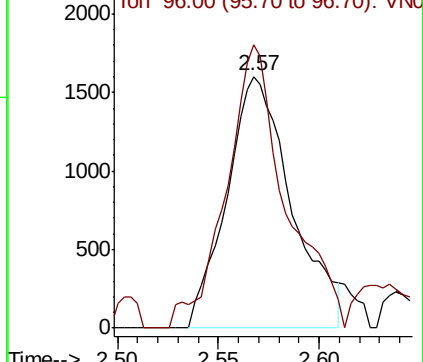
94 100

96 103.1 75.9 113.9



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#12

Methyl Acetate

Concen: 0.94 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.00 min

Lab File: VN050672.D

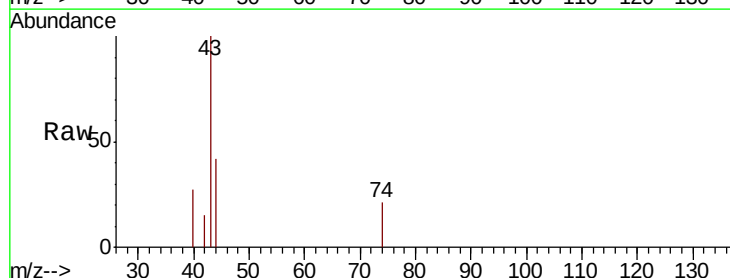
Acq: 15 Aug 2018 23:04

Tgt Ion: 43 Resp: 6395

Ion Ratio Lower Upper

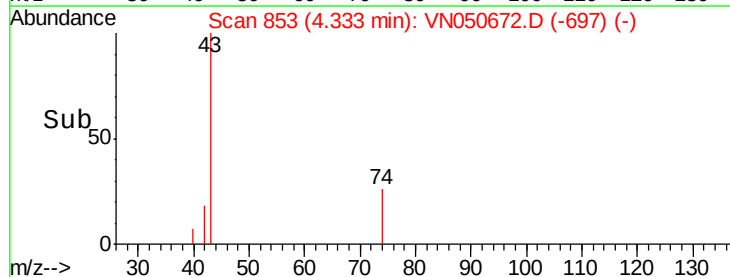
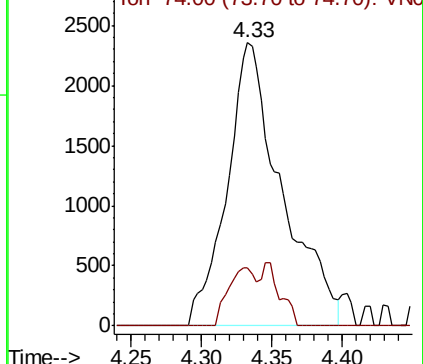
43 100

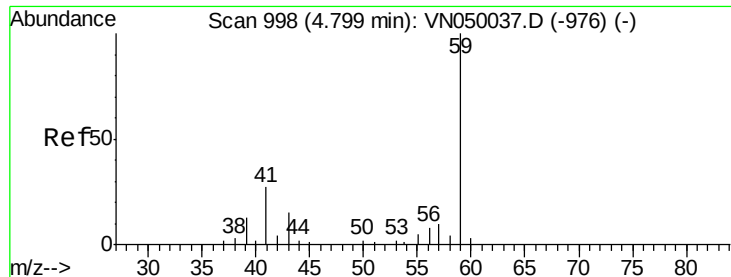
74 21.7 19.3 28.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#23

tert-Butyl Alcohol

Concen: 0.32 ug/l

RT: 4.34 min Scan# 855

Delta R.T. -0.46 min

Lab File: VN050672.D

Acq: 15 Aug 2018 23:04

Instrument :

MSVOA_N

ClientSampled :

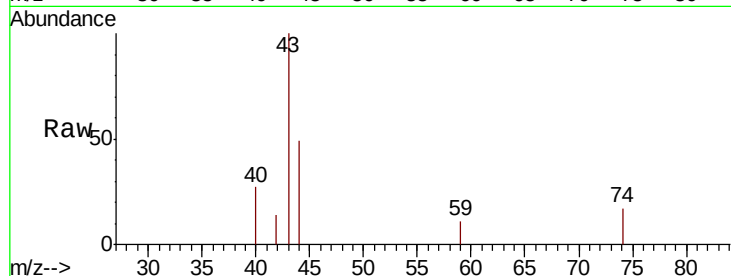
MH-93

Tot Ion: 59 Resp: 163

Ion Ratio Lower Upper

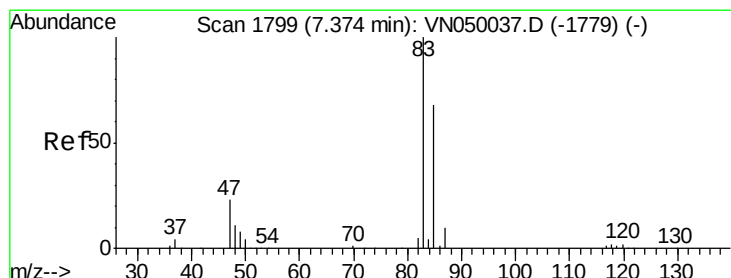
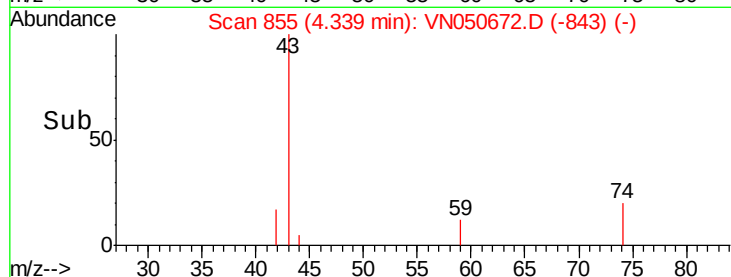
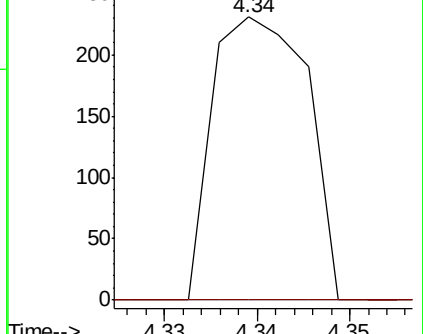
59 100

52 0.0 0.1 0.1#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#25

Chloroform

Concen: 0.60 ug/l

RT: 7.37 min Scan# 1799

Delta R.T. -0.00 min

Lab File: VN050672.D

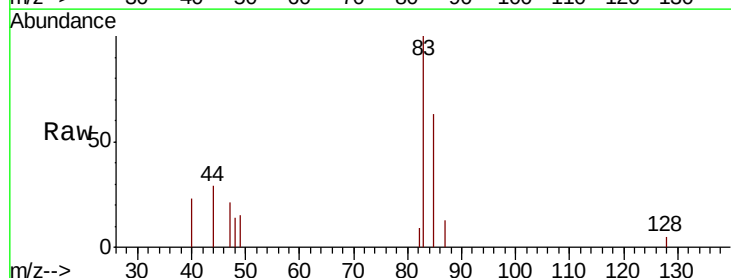
Acq: 15 Aug 2018 23:04

Tgt Ion: 83 Resp: 7420

Ion Ratio Lower Upper

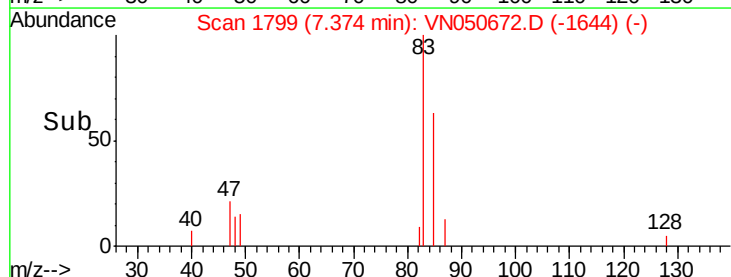
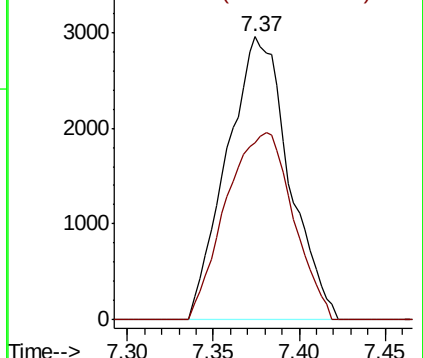
83 100

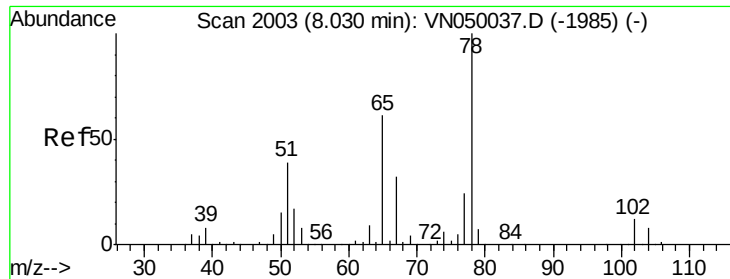
85 62.8 52.1 78.1



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0

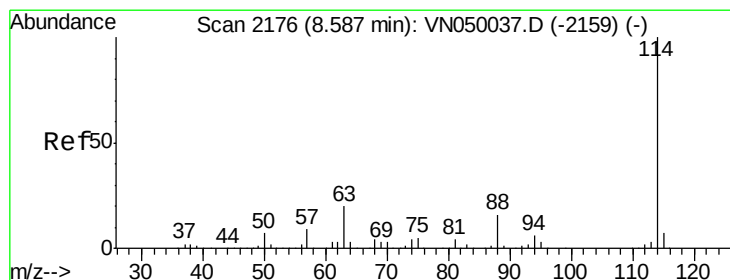
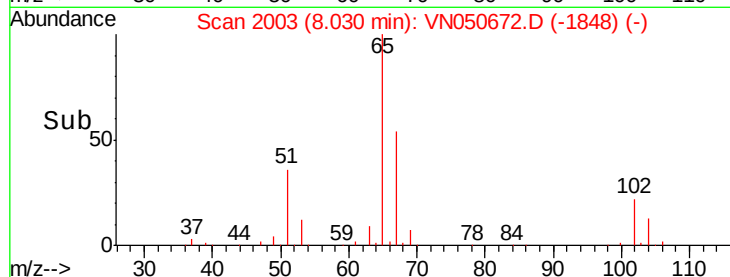
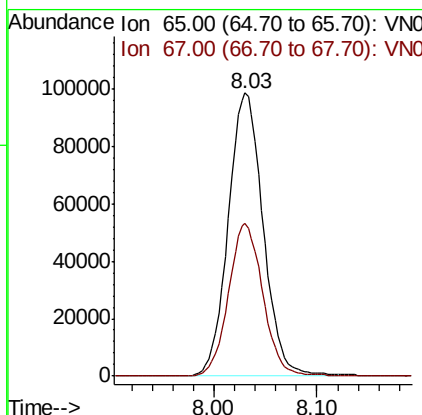
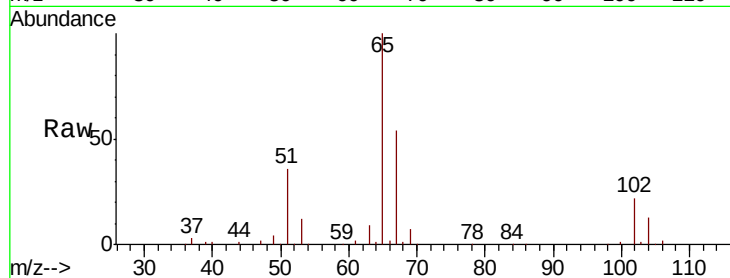




#27
 1,2-Dichloroethane-d4
 Concen: 30.56 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. -0.00 min
 Lab File: VN050672.D
 Acq: 15 Aug 2018 23:04

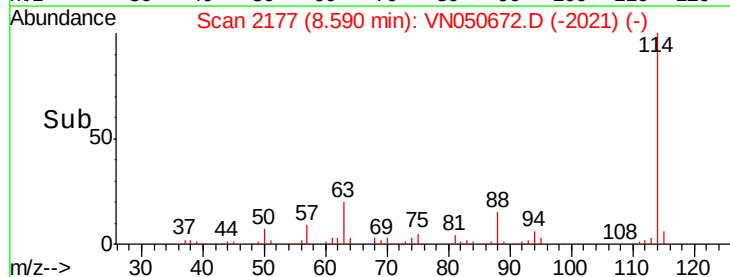
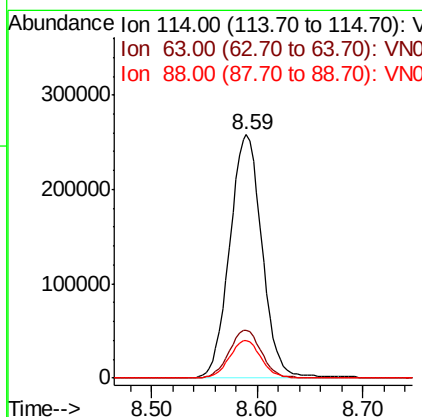
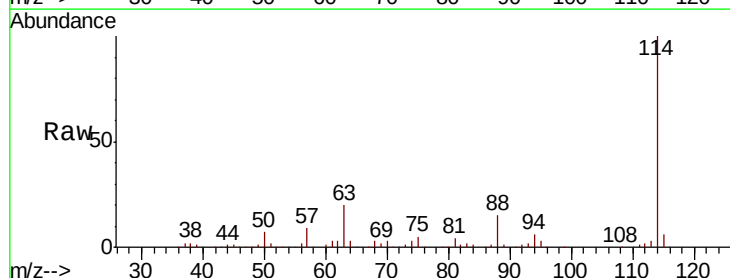
Instrument :
 MSVOA_N
 ClientSampled :
 MH-93

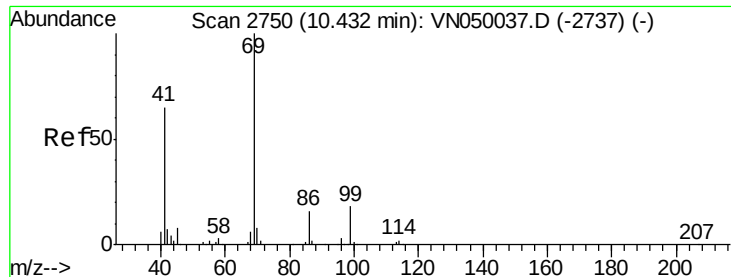
Tot Ion: 65 Resp: 232295
 Ion Ratio Lower Upper
 65 100
 67 52.8 42.7 64.1



#28
 1,4-Difluorobenzene
 Concen: 30.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050672.D
 Acq: 15 Aug 2018 23:04

Tgt Ion: 114 Resp: 547795
 Ion Ratio Lower Upper
 114 100
 63 19.8 16.2 24.2
 88 15.2 12.3 18.5





#51

Ethyl methacrylate

Concen: 0.31 ug/l

RT: 10.10 min Scan# 2647

Delta R.T. -0.33 min

Lab File: VN050672.D

Acq: 15 Aug 2018 23:04

Instrument :

MSVOA_N

ClientSampleId :

MH-93

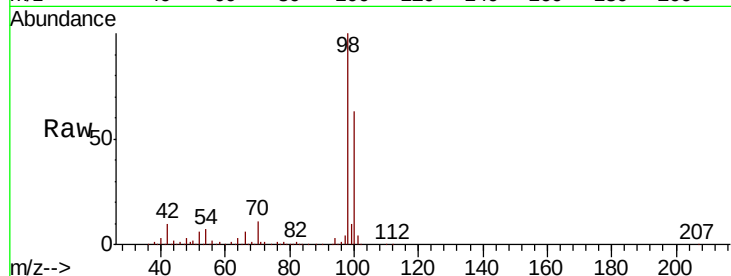
Tot Ion: 69 Resp: 2241

Ion Ratio Lower Upper

69 100

41 62.0 31.9 95.9

39 25.0 16.7 50.1

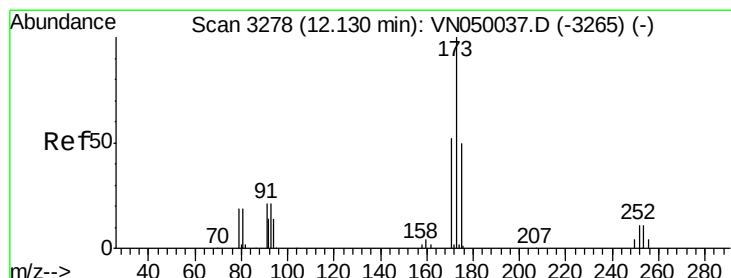
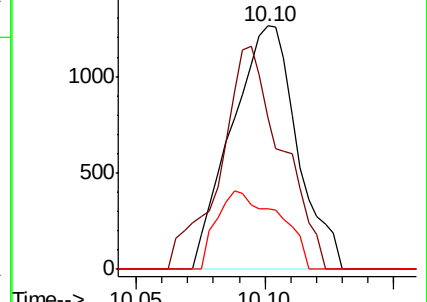
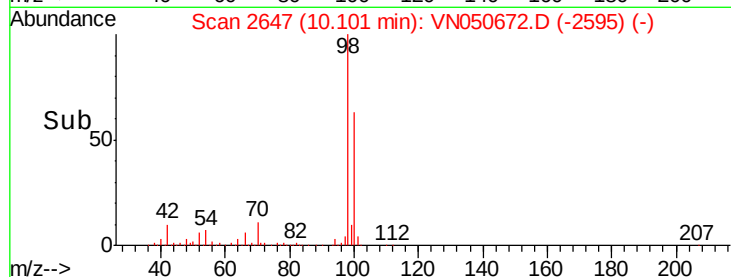


Abundance Ion 69.00 (68.70 to 69.70): VN050037.D (-2737) (-)

Ion 41.00 (40.70 to 41.70): VN050037.D (-2737) (-)

Ion 39.00 (38.70 to 39.70): VN050037.D (-2737) (-)

Time-->



#56

Bromoform

Concen: 0.38 ug/l

RT: 12.40 min Scan# 3362

Delta R.T. 0.27 min

Lab File: VN050672.D

Acq: 15 Aug 2018 23:04

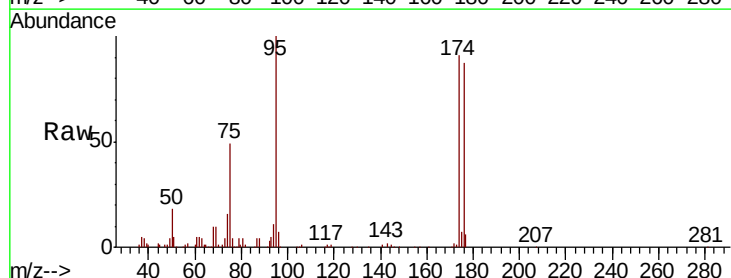
Tgt Ion: 173 Resp: 1834

Ion Ratio Lower Upper

173 100

175 572.4 38.6 57.8#

254 0.0 8.8 13.2#

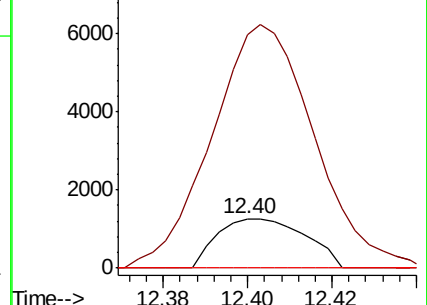
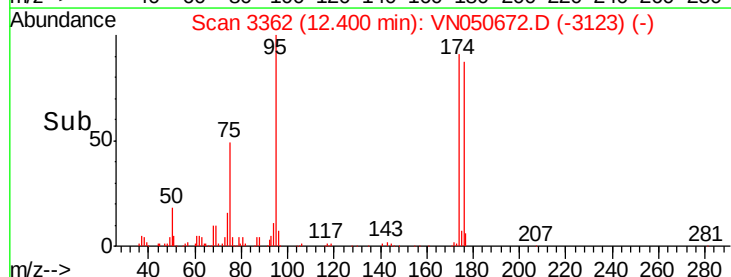


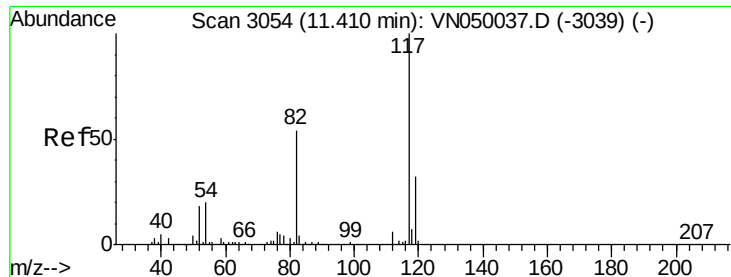
Abundance Ion 173.00 (172.70 to 173.70): VN050037.D (-3265) (-)

Ion 175.00 (174.70 to 175.70): VN050037.D (-3265) (-)

Ion 254.00 (253.70 to 254.70): VN050037.D (-3265) (-)

Time-->

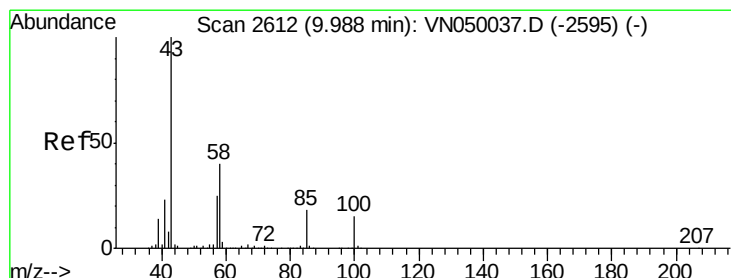
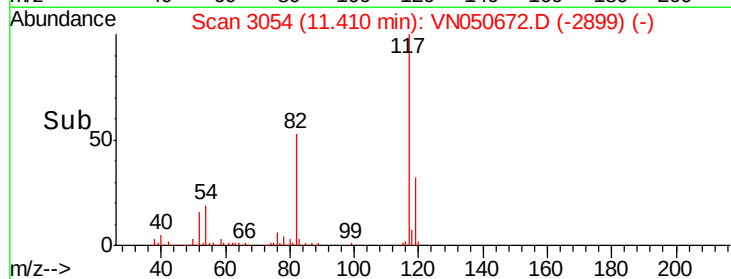
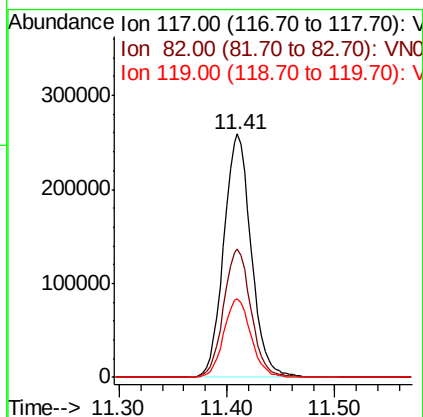
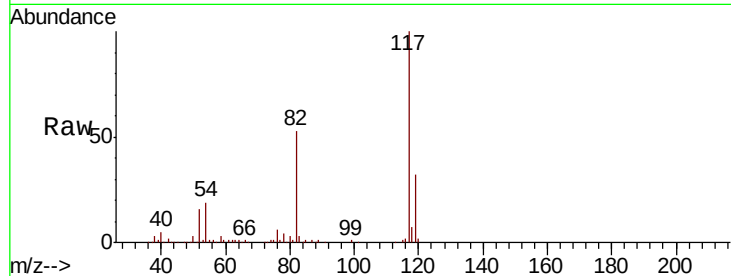




#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN050672.D
Acq: 15 Aug 2018 23:04

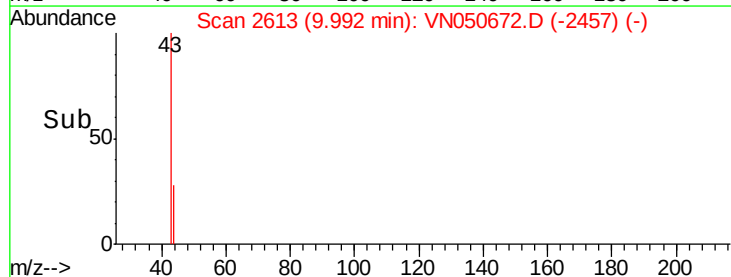
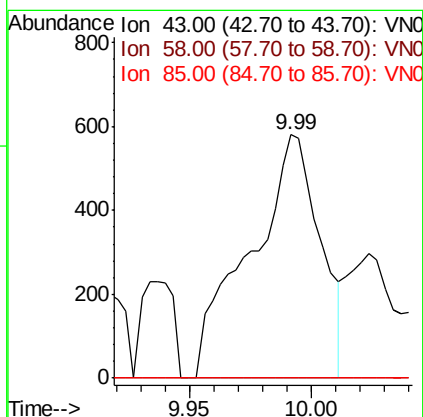
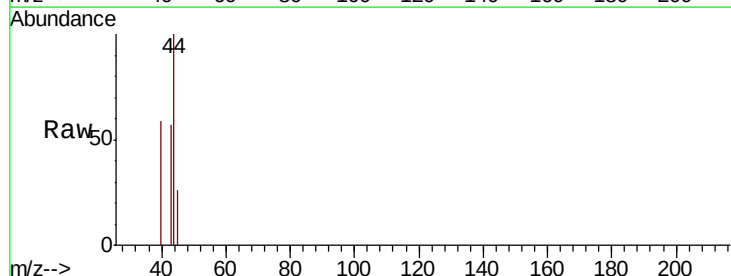
Instrument :
MSVOA_N
ClientSampled :
MH-93

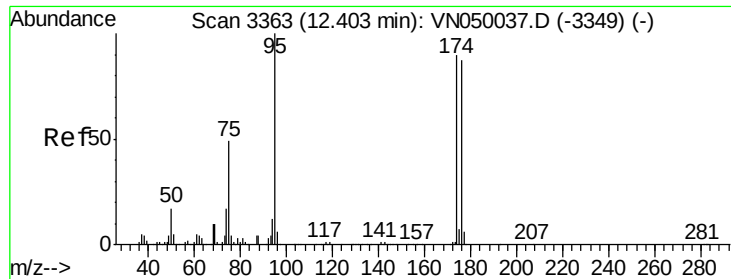
Tot Ion:117 Resp: 458466
Ion Ratio Lower Upper
117 100
82 52.7 42.4 63.6
119 32.1 25.4 38.0



#58
4-Methyl-2-Pentanone
Concen: 0.22 ug/l
RT: 9.99 min Scan# 2613
Delta R.T. 0.00 min
Lab File: VN050672.D
Acq: 15 Aug 2018 23:04

Tgt Ion: 43 Resp: 1160
Ion Ratio Lower Upper
43 100
58 0.0 31.2 46.8#
85 0.0 14.4 21.6#





#60

4-Bromofluorobenzene

Concen: 21.66 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN050672.D

Acq: 15 Aug 2018 23:04

Instrument :

MSVOA_N

ClientSampleId :

MH-93

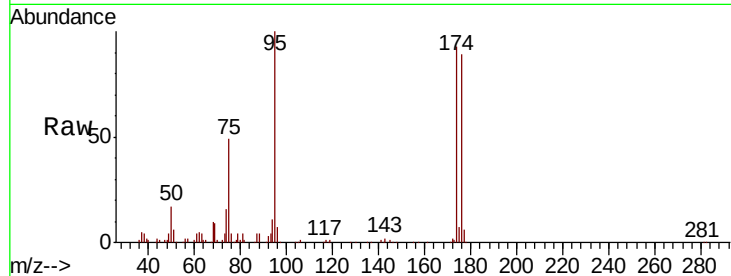
Tot Ion: 95 Resp: 152545

Ion Ratio Lower Upper

95 100

174 92.6 72.3 108.5

176 88.3 70.0 105.0



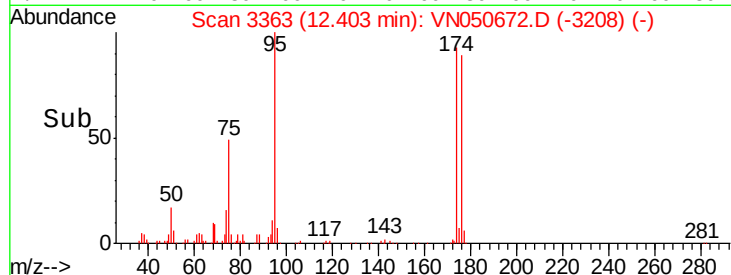
Abundance Ion 95.00 (94.70 to 95.70): VN050037.D (-3349) (-)

Ion 174.00 (173.70 to 174.70): VN050037.D (-3349) (-)

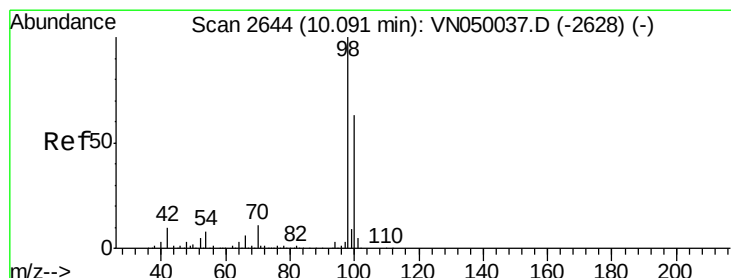
Ion 176.00 (175.70 to 176.70): VN050037.D (-3349) (-)

12.40

Time-->



Time-->



#63

Toluene-d8

Concen: 29.11 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. -0.00 min

Lab File: VN050672.D

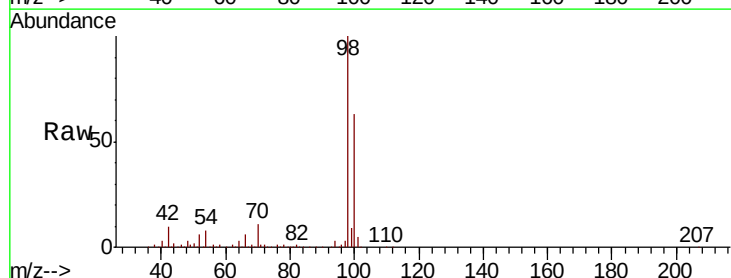
Acq: 15 Aug 2018 23:04

Tgt Ion: 98 Resp: 637381

Ion Ratio Lower Upper

98 100

100 62.6 51.2 76.8

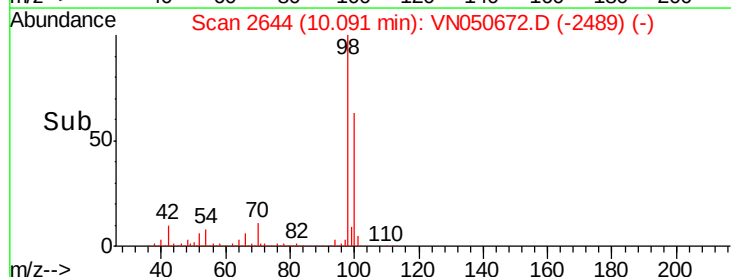


Abundance Ion 98.00 (97.70 to 98.70): VN050037.D (-2628) (-)

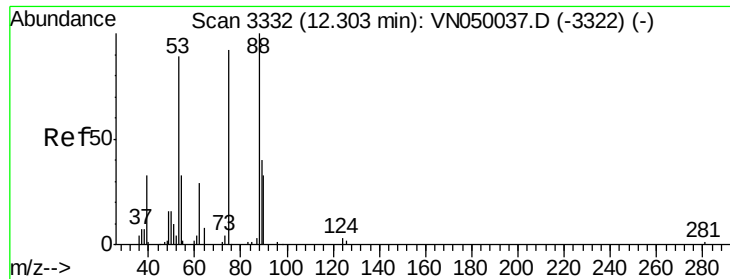
Ion 100.00 (99.70 to 100.70): VN050037.D (-2628) (-)

10.09

Time-->



Time-->



#77

t-1,4-Dichloro-2-butene

Concen: 36.60 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050672.D

Acq: 15 Aug 2018 23:04

Instrument :

MSVOA_N

ClientSampleId :

MH-93

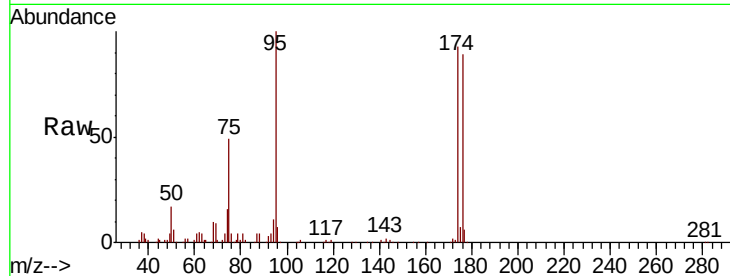
Tot Ion: 75 Resp: 73149

Ion Ratio Lower Upper

75 100

53 0.0 44.6 134.0#

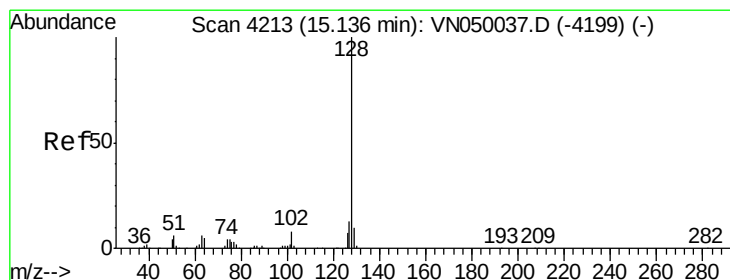
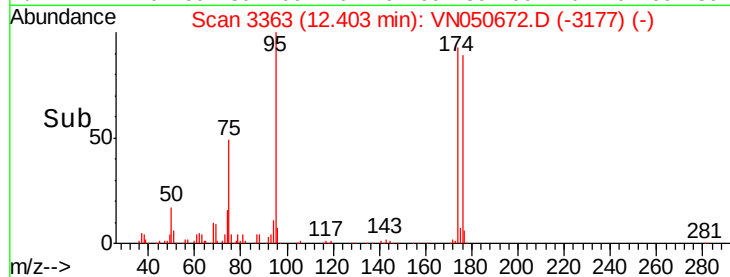
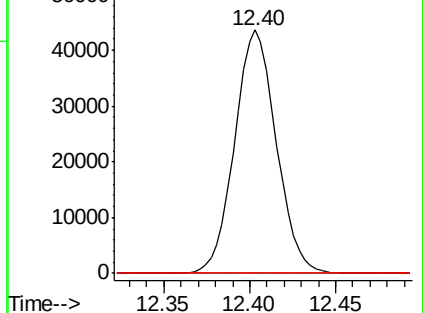
89 0.0 20.7 62.1#



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0



#91

Naphthalene

Concen: 7.74 ug/l

RT: 15.14 min Scan# 4214

Delta R.T. 0.00 min

Lab File: VN050672.D

Acq: 15 Aug 2018 23:04

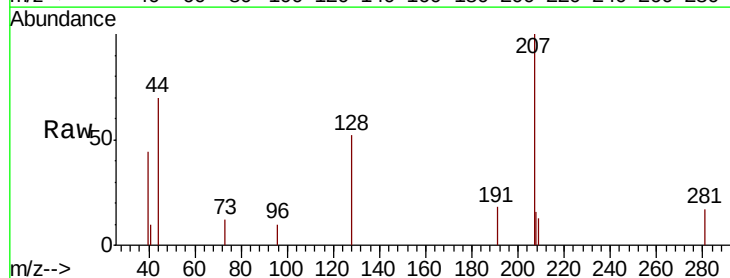
Tgt Ion: 128 Resp: 1703

Ion Ratio Lower Upper

128 100

127 3.8 10.2 15.4#

129 0.0 9.0 13.4#



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

