

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN083118\
 Data File : VN051000.D
 Acq On : 31 Aug 2018 20:34
 Operator : MD\SY
 Sample : J4763-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 002M-35TH-AVE(AUG)

Quant Time: Aug 31 23:09:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 29 01:38:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	110973	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	589457	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	513204	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	213094	30.09	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.30%
60) 4-Bromofluorobenzene	12.40	95	195370	25.60	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	85.33%
63) Toluene-d8	10.09	98	694313	29.01	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.70%

Target Compounds

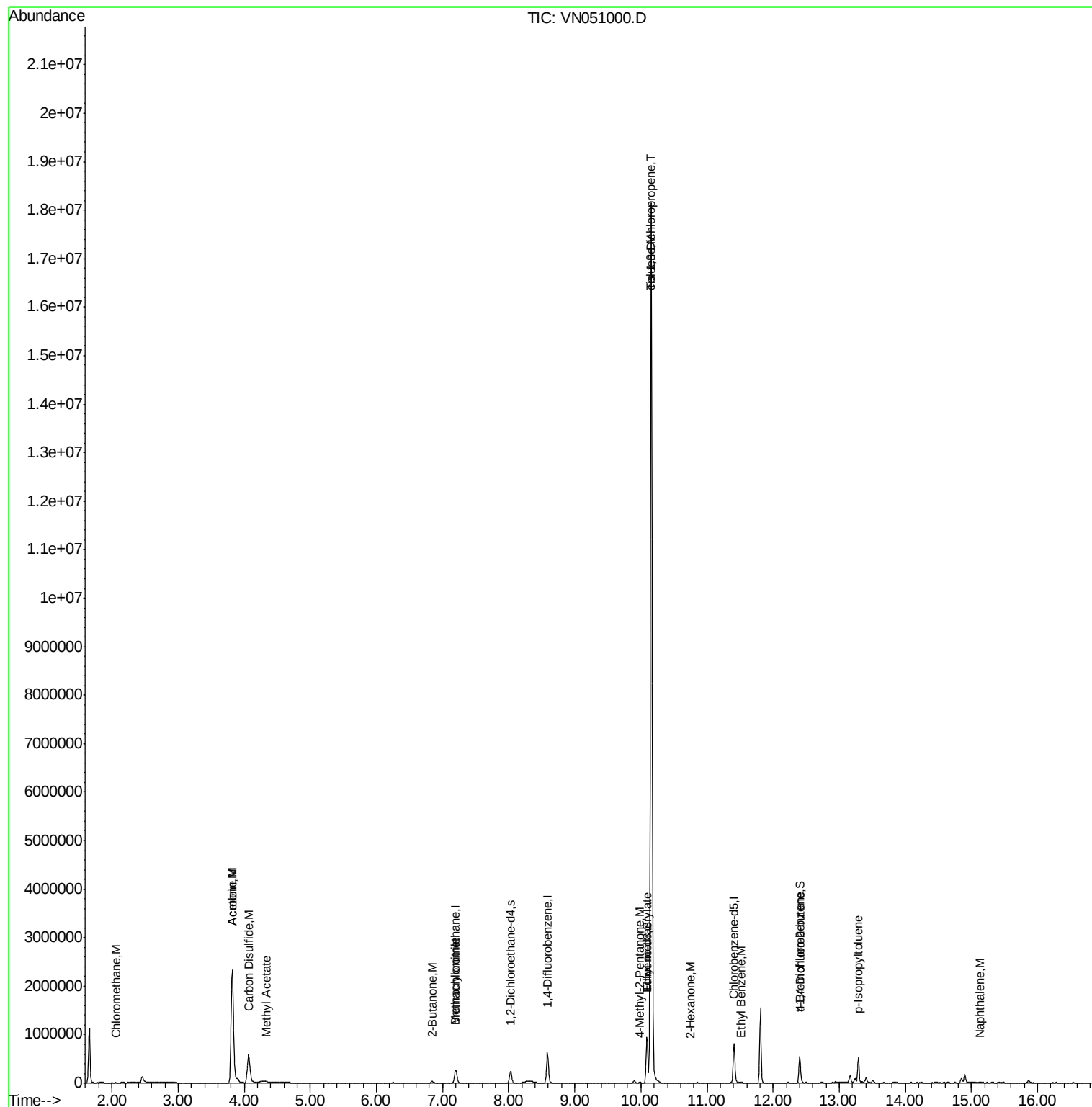
						Ovalue
3) Chloromethane	2.06	50	2027	0.25	ug/l	95
12) Methyl Acetate	4.33	43	13576	1.96	ug/l #	90
13) Acrolein	3.82	56	830	5.41	ug/l #	1
15) Acetone	3.82	58	1354462	2257.81	ug/l	94
16) Carbon Disulfide	4.05	76	6769	0.38	ug/l	97
30) 2-Butanone	6.84	43	54186	19.96	ug/l #	82
35) Methacrylonitrile	7.20	41	962	0.32	ug/l #	51
49) cis-1,3-Dichloropropene	10.16	75	90414	8.87	ug/l #	1
51) Ethyl methacrylate	10.09	69	2340	0.31	ug/l	80
58) 4-Methyl-2-Pentanone	9.99	43	13162	2.24	ug/l	96
59) 2-Hexanone	10.76	43	975	0.25	ug/l #	86
62) Toluene	10.16	91	14454182	504.84	ug/l	99
66) Ethyl Benzene	11.51	91	6814	0.23	ug/l	92
77) t-1,4-Dichloro-2-butene	12.40	75	89625	46.49	ug/l #	13
82) p-Isopropyltoluene	13.29	119	300837	12.95	ug/l	99
91) Naphthalene	15.14	128	4128	8.81	ug/l #	93

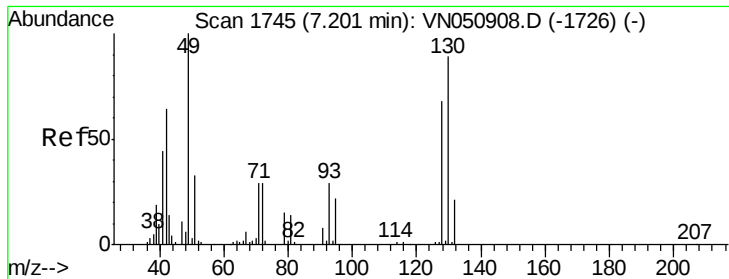
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN051000.D

Acq: 31 Aug 2018 20:34

Instrument :

MSVOA_N

ClientSampleId :

002M-35TH-AVE(AUG)

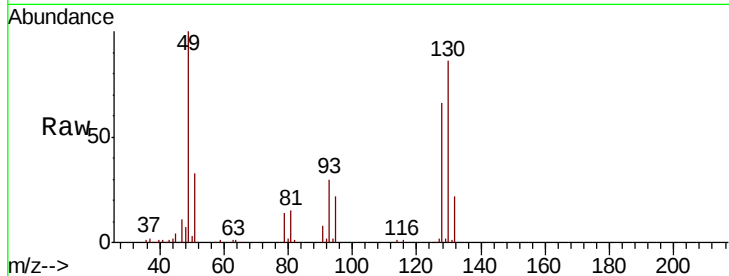
Tot Ion:128 Resp: 110973

Ion Ratio Lower Upper

128 100

49 149.3 0.0 380.3

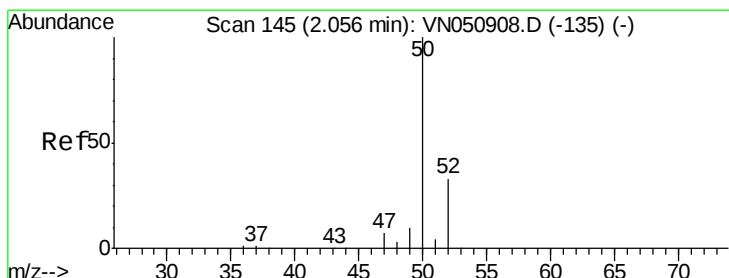
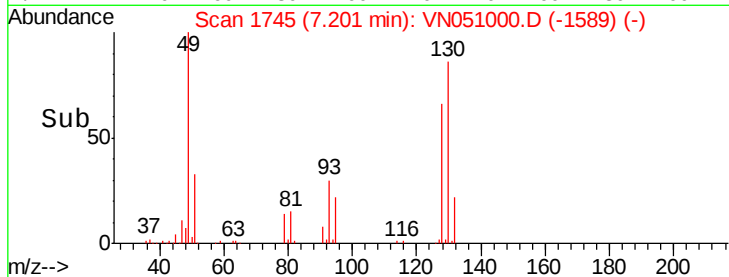
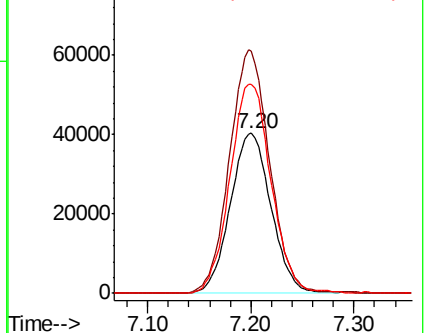
130 131.5 0.0 325.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN

Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.25 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN051000.D

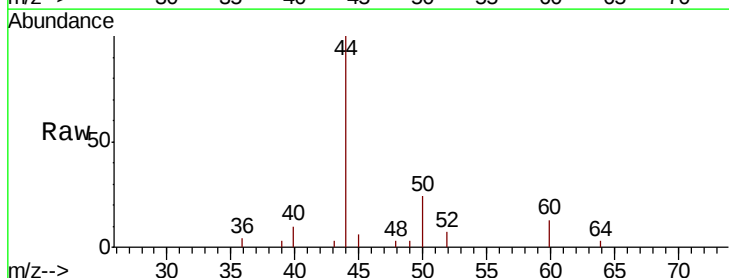
Acq: 31 Aug 2018 20:34

Tgt Ion: 50 Resp: 2027

Ion Ratio Lower Upper

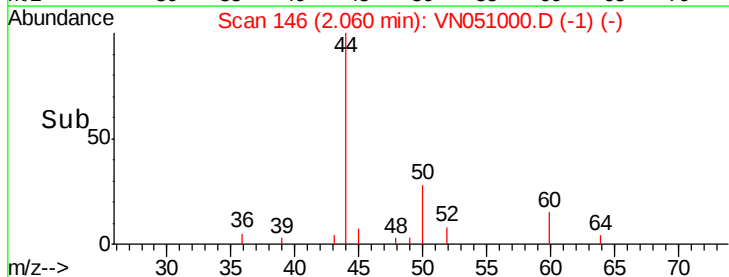
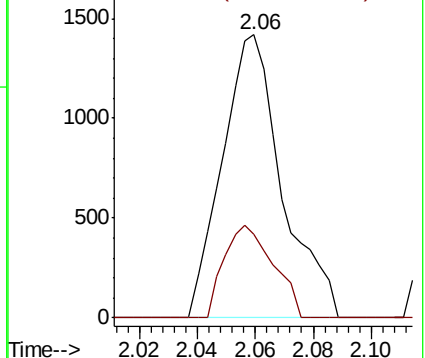
50 100

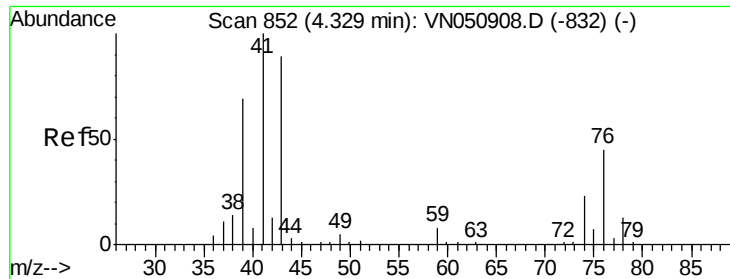
52 29.8 26.2 39.4



Abundance Ion 50.00 (49.70 to 50.70): VN

Ion 52.00 (51.70 to 52.70): VN





#12

Methvl Acetate

Concen: 1.96 ug/l

RT: 4.33 min Scan# 852

Delta R.T. 0.00 min

Lab File: VN051000.D

Acq: 31 Aug 2018 20:34

Instrument :

MSVOA_N

ClientSampleId :

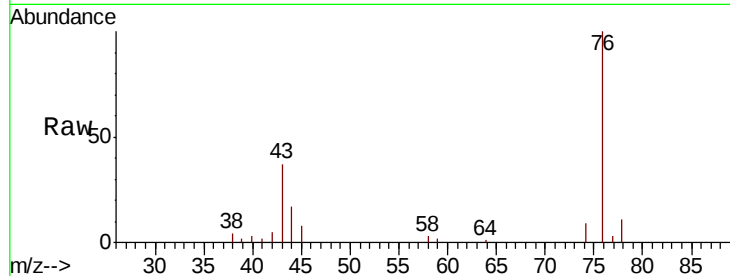
002M-35TH-AVE(AUG)

Tot Ion: 43 Resp: 13576

Ion Ratio Lower Upper

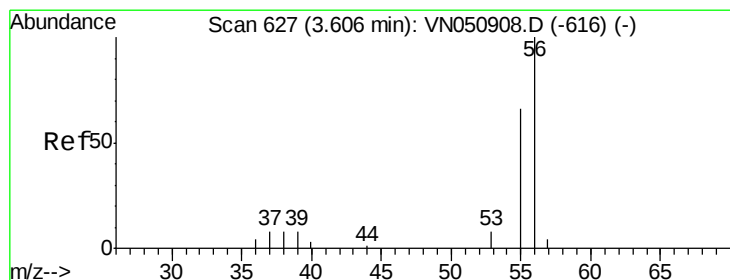
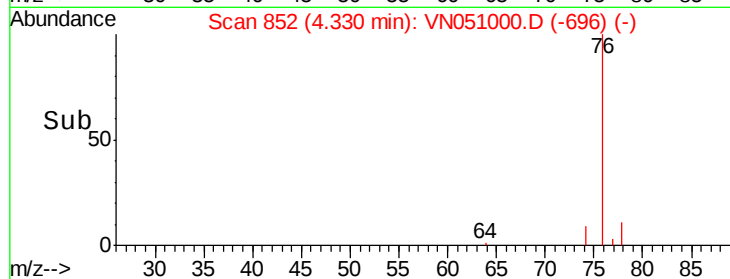
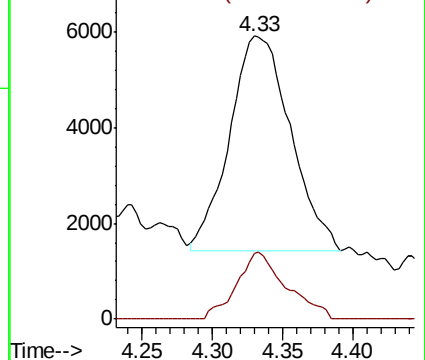
43 100

74 31.1 20.6 31.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0



#13

Acrolein

Concen: 5.41 ug/l

RT: 3.82 min Scan# 692

Delta R.T. 0.21 min

Lab File: VN051000.D

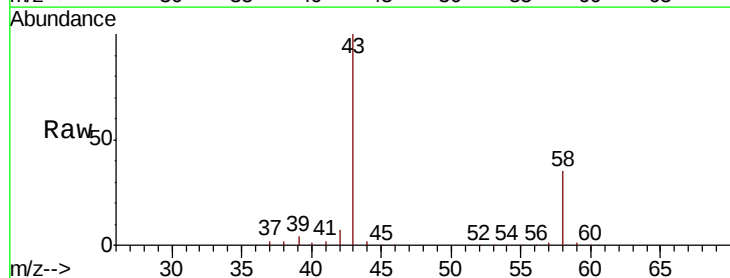
Acq: 31 Aug 2018 20:34

Tgt Ion: 56 Resp: 830

Ion Ratio Lower Upper

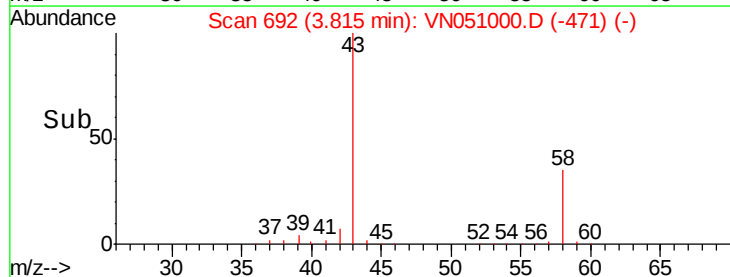
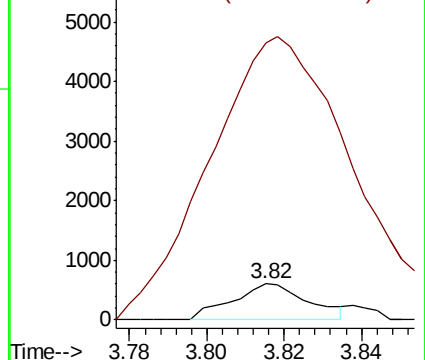
56 100

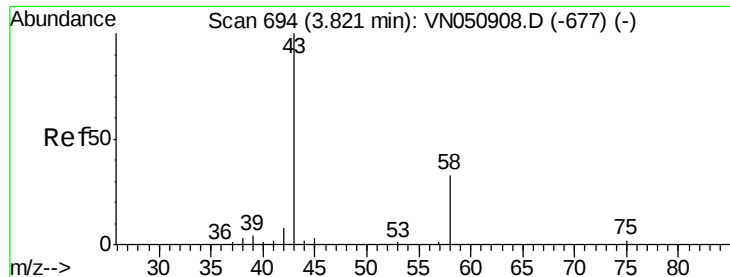
55 1490.5 59.1 88.7#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#15

Acetone

Concen: 2257.81 ug/l

RT: 3.82 min Scan# 693

Delta R.T. -0.00 min

Lab File: VN051000.D

Acq: 31 Aug 2018 20:34

Instrument :

MSVOA_N

ClientSampleId :

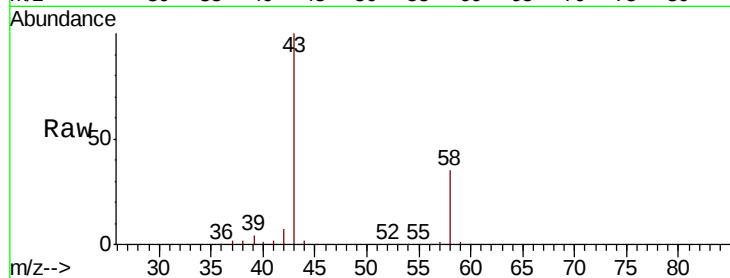
002M-35TH-AVE(AUG)

Tot Ion: 58 Resp: 1354462

Ion Ratio Lower Upper

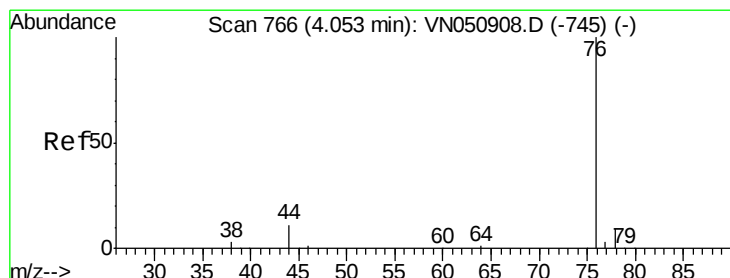
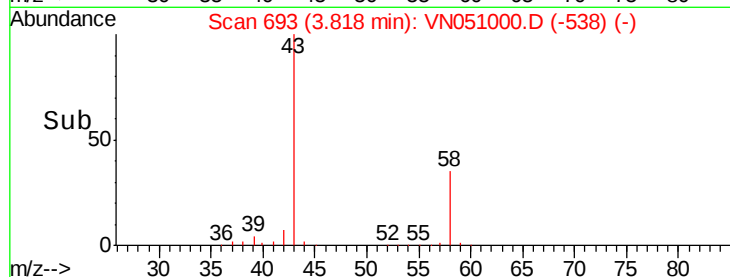
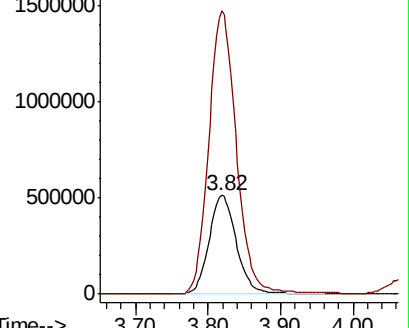
58 100

43 286.5 239.4 359.0



Abundance Ion 58.00 (57.70 to 58.70): VN051000.D (-538) (-)

Ion 43.00 (42.70 to 43.70): VN051000.D (-538) (-)



#16

Carbon Disulfide

Concen: 0.38 ug/l

RT: 4.05 min Scan# 766

Delta R.T. 0.00 min

Lab File: VN051000.D

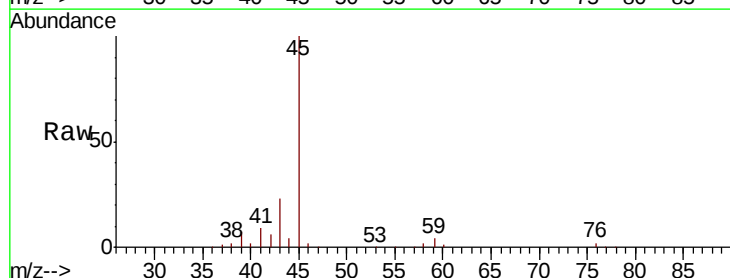
Acq: 31 Aug 2018 20:34

Tgt Ion: 76 Resp: 6769

Ion Ratio Lower Upper

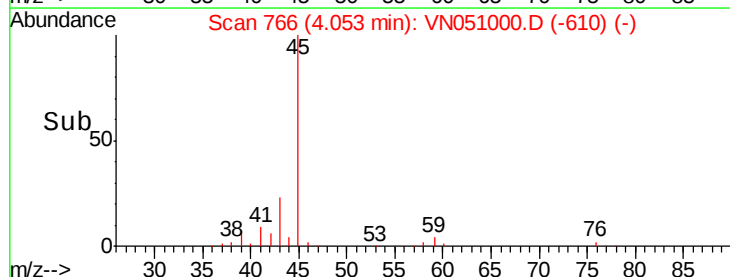
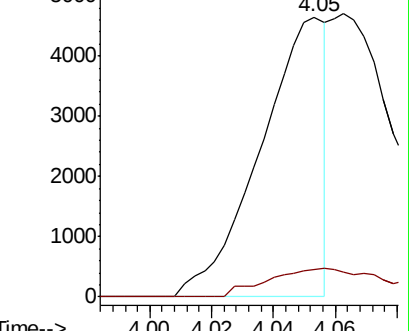
76 100

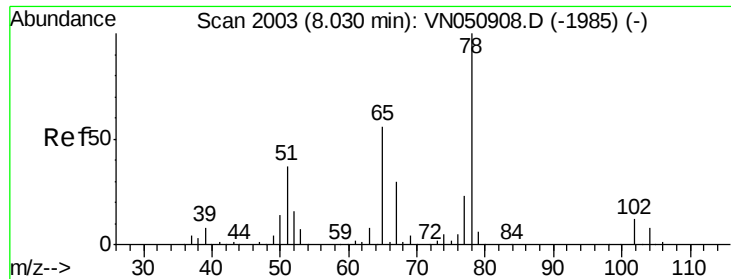
78 10.0 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VN051000.D (-610) (-)

Ion 78.00 (77.70 to 78.70): VN051000.D (-610) (-)





#27

1,2-Dichloroethane-d4

Concen: 30.09 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN051000.D

Acq: 31 Aug 2018 20:34

Instrument :

MSVOA_N

ClientSampleId :

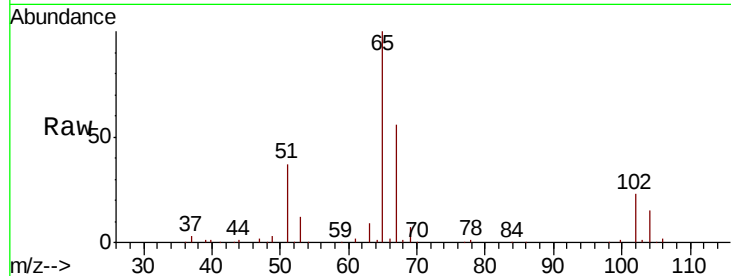
002M-35TH-AVE(AUG)

Tot Ion: 65 Resp: 213094

Ion Ratio Lower Upper

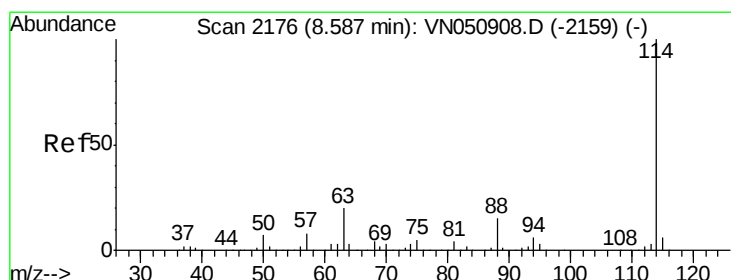
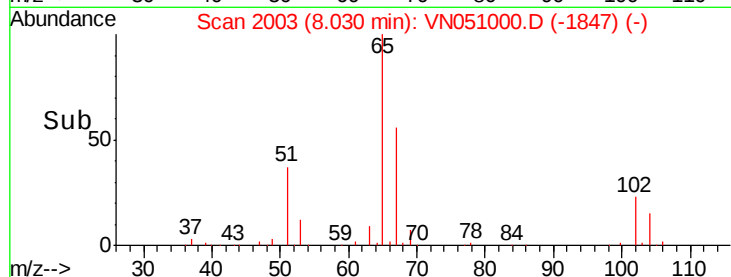
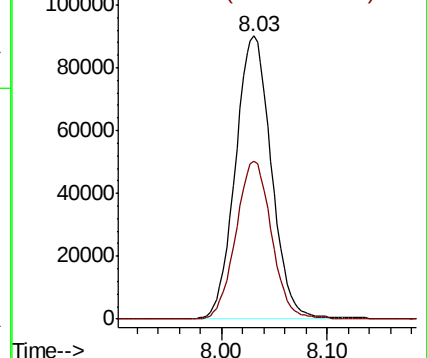
65 100

67 55.2 43.7 65.5



Abundance Ion 65.00 (64.70 to 65.70): VN0

Ion 67.00 (66.70 to 67.70): VN0



#28

1,4-Difluorobenzene

Concen: 30.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. 0.00 min

Lab File: VN051000.D

Acq: 31 Aug 2018 20:34

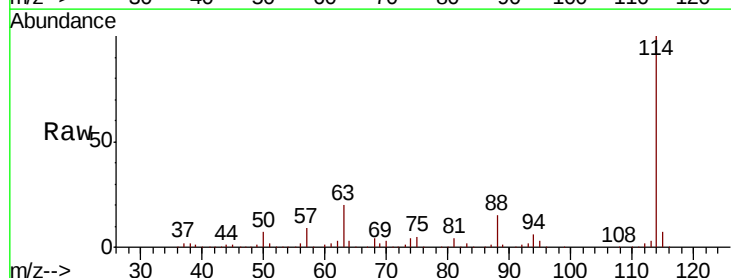
Tgt Ion:114 Resp: 589457

Ion Ratio Lower Upper

114 100

63 19.6 15.6 23.4

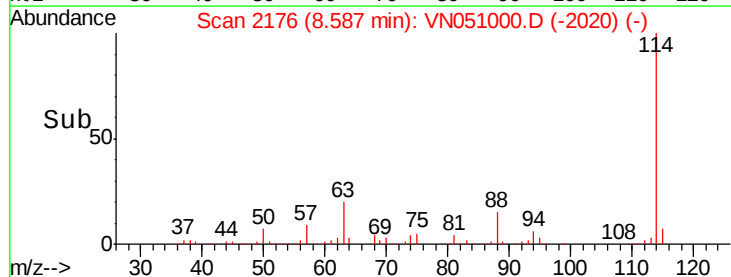
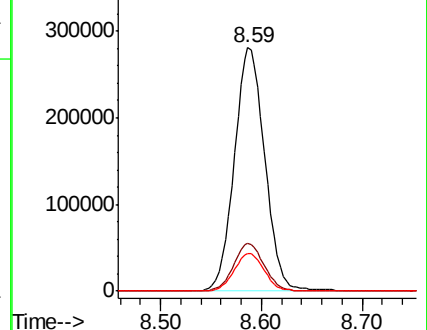
88 15.3 12.2 18.4

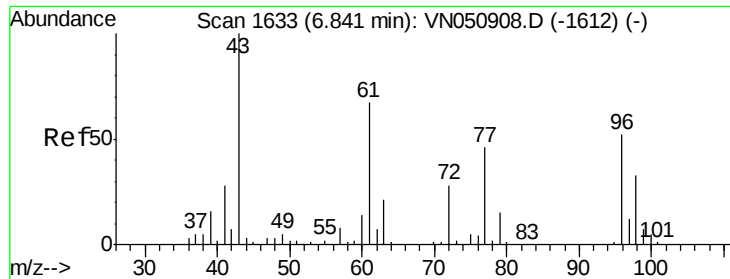


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 88.00 (87.70 to 88.70): VN0

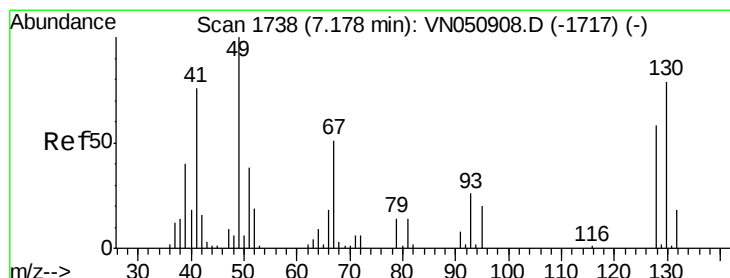
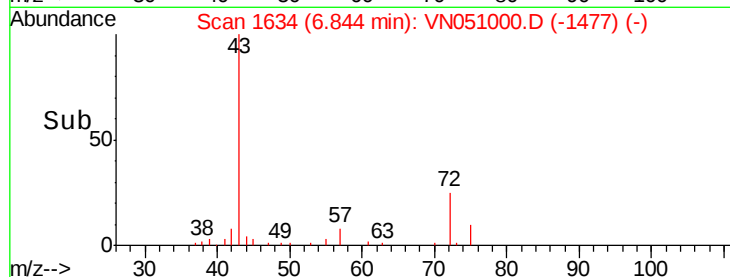
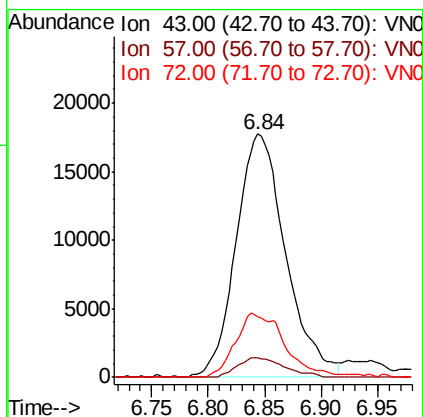
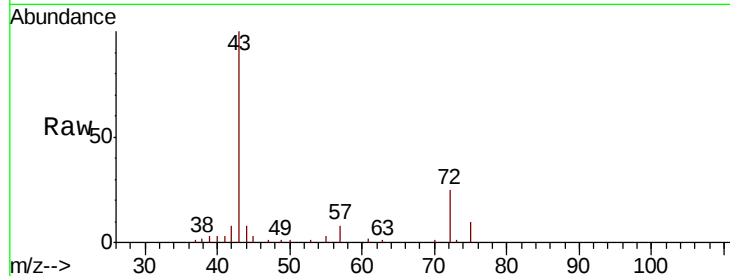




#30
2-Butanone
Concen: 19.96 ug/l
RT: 6.84 min Scan# 1634
Delta R.T. 0.00 min
Lab File: VN051000.D
Acq: 31 Aug 2018 20:34

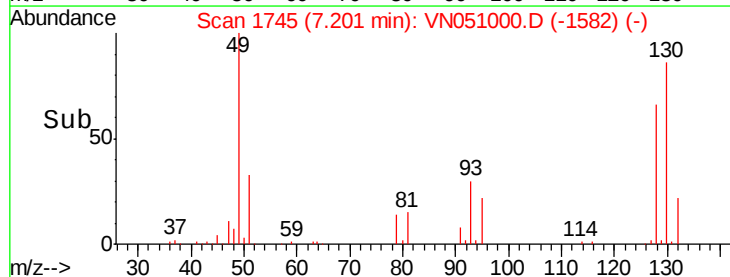
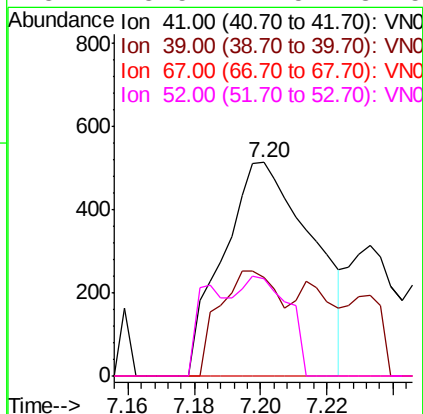
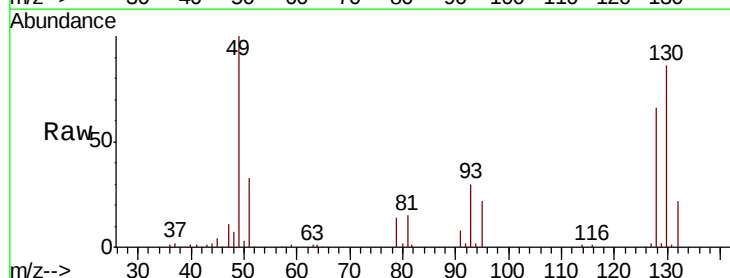
Instrument :
MSVOA_N
ClientSampleId :
002M-35TH-AVE(AUG)

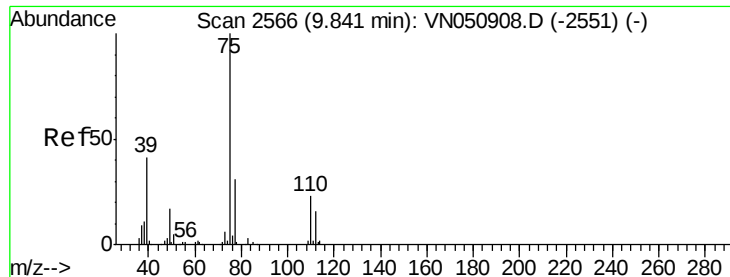
Tot Ion: 43 Resp: 54186
Ion Ratio Lower Upper
43 100
57 7.3 6.9 10.3
72 16.8 22.8 34.2#



#35
Methacrylonitrile
Concen: 0.32 ug/l
RT: 7.20 min Scan# 1745
Delta R.T. 0.02 min
Lab File: VN051000.D
Acq: 31 Aug 2018 20:34

Tgt Ion: 41 Resp: 962
Ion Ratio Lower Upper
41 100
39 46.1 26.2 78.5
67 0.0 33.9 101.6#
52 45.5 12.5 37.5#





#49

cis-1,3-Dichloropropene

Concen: 8.87 ug/l

RT: 10.16 min Scan# 2664

Delta R.T. 0.32 min

Lab File: VN051000.D

Acq: 31 Aug 2018 20:34

Instrument :

MSVOA_N

ClientSampleId :

002M-35TH-AVE(AUG)

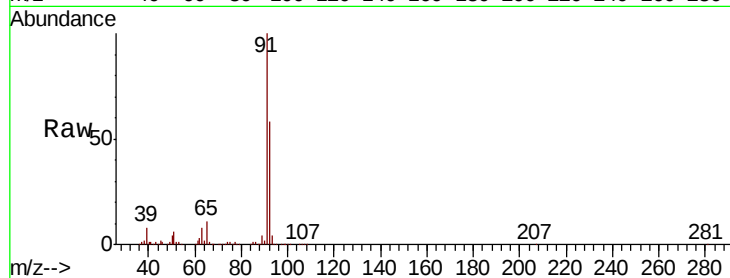
Tot Ion: 75 Resp: 90414

Ion Ratio Lower Upper

75 100

77 168.0 25.0 37.4#

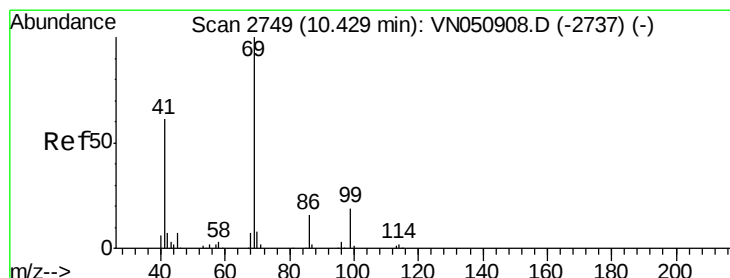
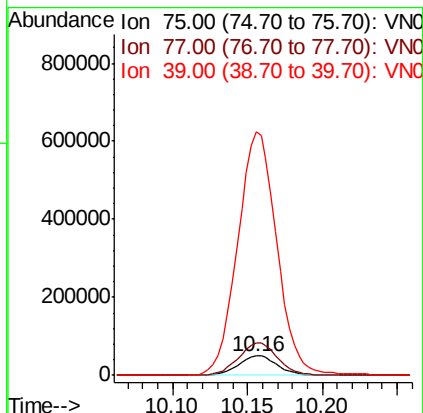
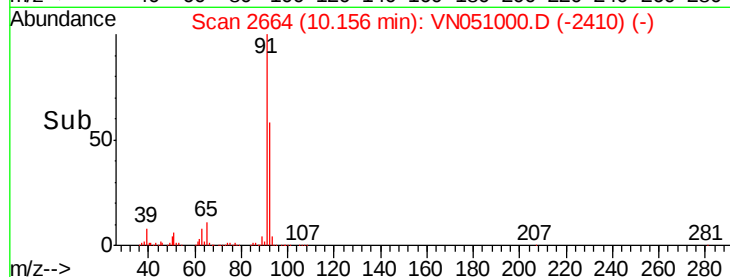
39 1256.9 32.9 49.3#



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#51

Ethyl methacrylate

Concen: 0.31 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. -0.33 min

Lab File: VN051000.D

Acq: 31 Aug 2018 20:34

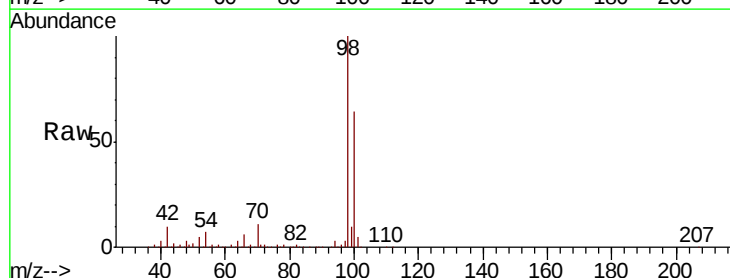
Tgt Ion: 69 Resp: 2340

Ion Ratio Lower Upper

69 100

41 49.2 30.5 91.5

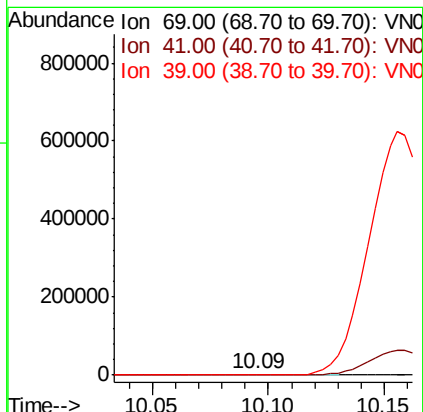
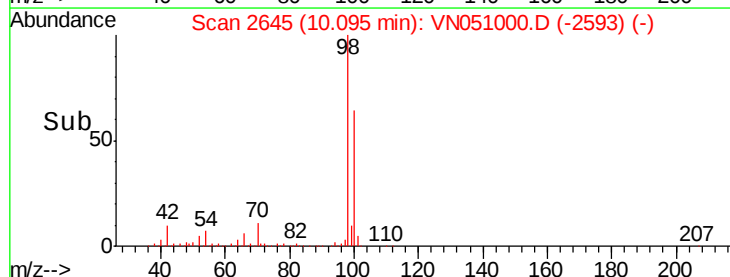
39 15.3 15.3 45.8

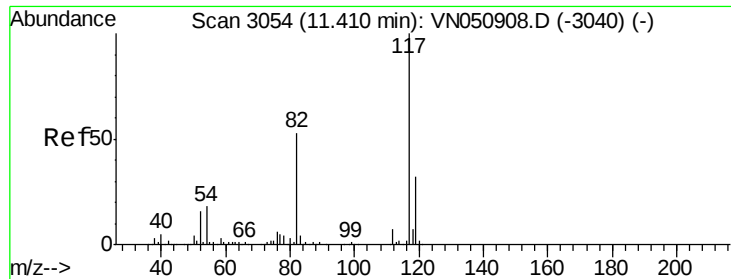


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

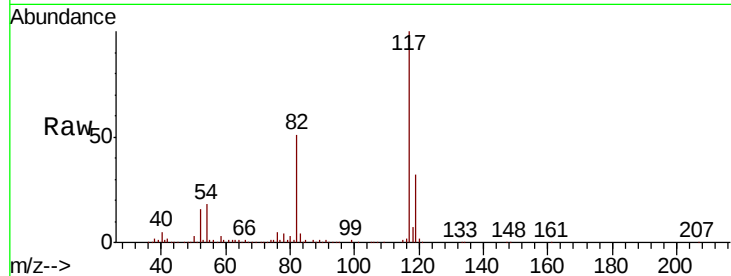




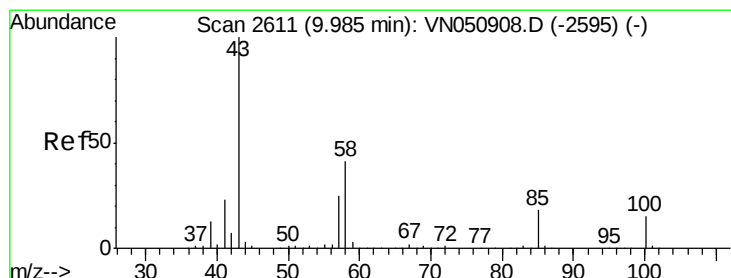
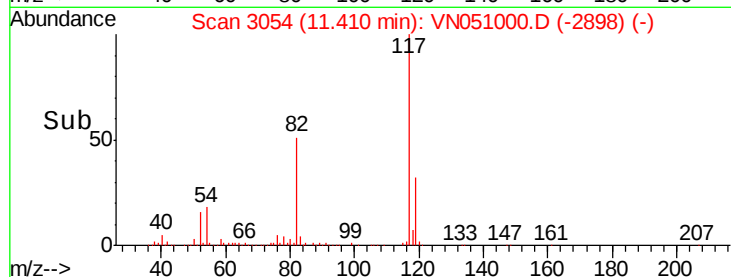
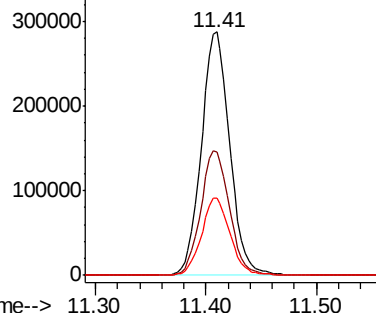
#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN051000.D
Acq: 31 Aug 2018 20:34

Instrument :
MSVOA_N
ClientSampleId :
002M-35TH-AVE(AUG)

Tot Ion:117 Resp: 513204
Ion Ratio Lower Upper
117 100
82 51.9 42.6 64.0
119 31.9 25.7 38.5

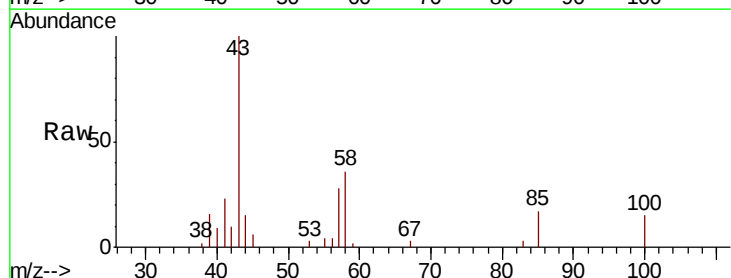


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

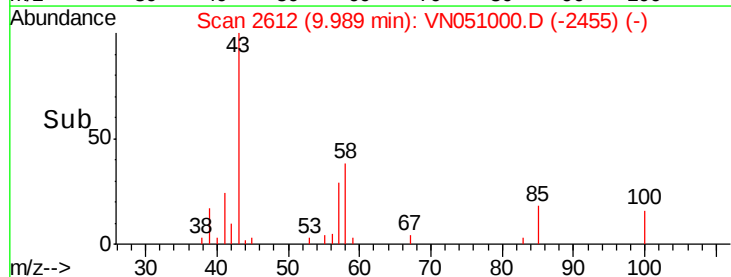
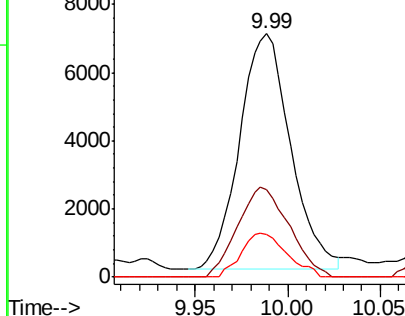


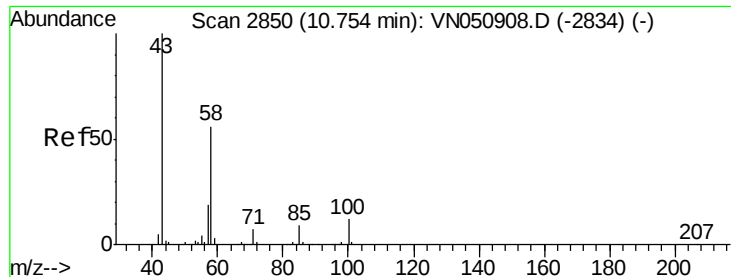
#58
4-Methyl-2-Pentanone
Concen: 2.24 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. 0.00 min
Lab File: VN051000.D
Acq: 31 Aug 2018 20:34

Tgt Ion: 43 Resp: 13162
Ion Ratio Lower Upper
43 100
58 38.4 32.3 48.5
85 16.6 14.9 22.3



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 58.00 (57.70 to 58.70): V
Ion 85.00 (84.70 to 85.70): V

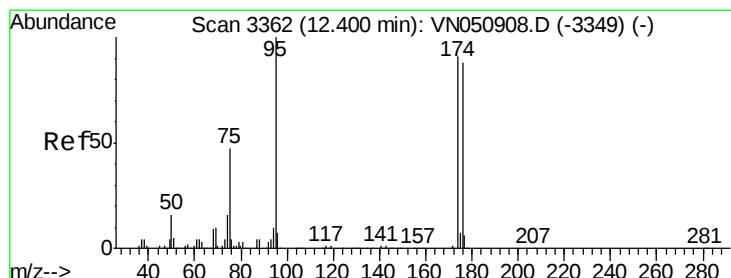
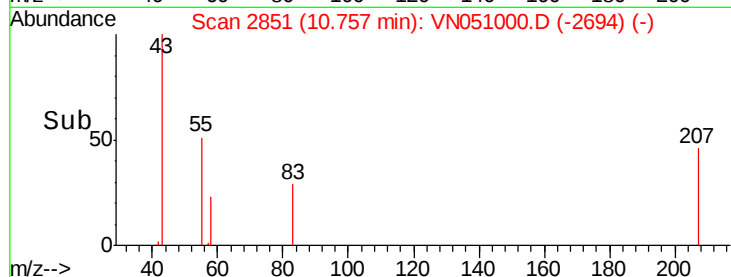
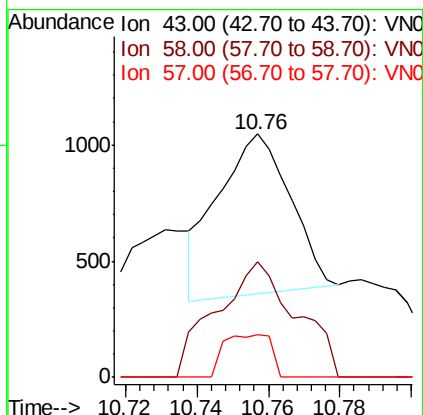
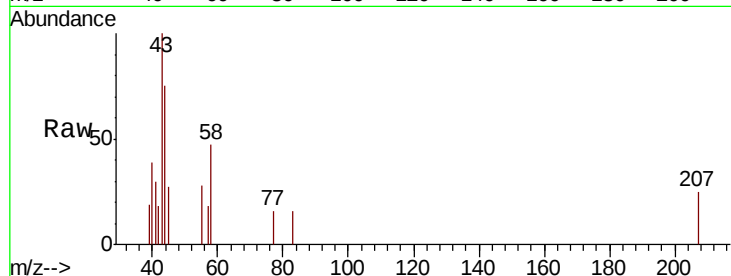




#59
2-Hexanone
Concen: 0.25 ug/l
RT: 10.76 min Scan# 2851
Delta R.T. 0.00 min
Lab File: VN051000.D
Acq: 31 Aug 2018 20:34

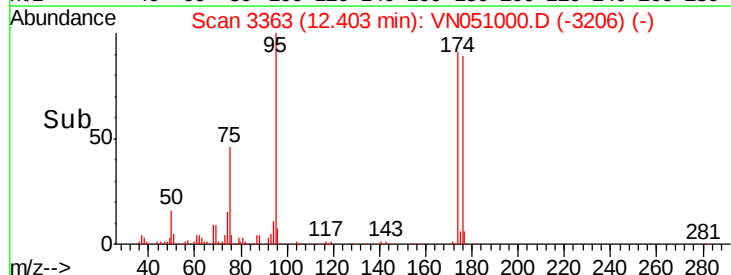
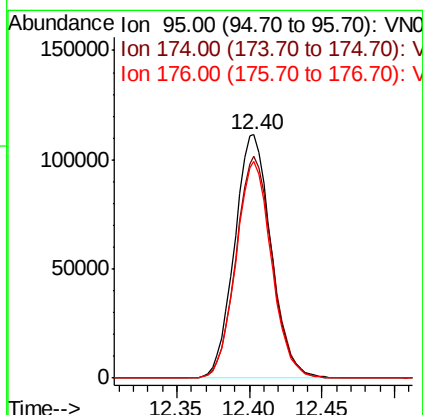
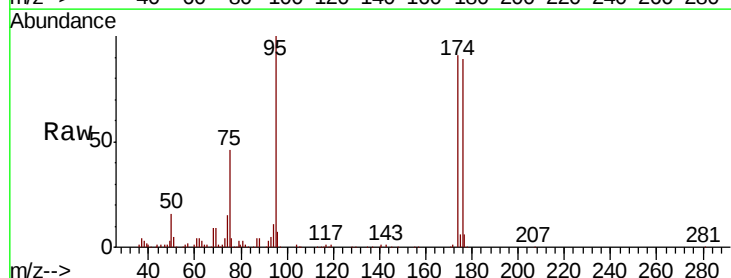
Instrument :
MSVOA_N
ClientSampleId :
002M-35TH-AVE(AUG)

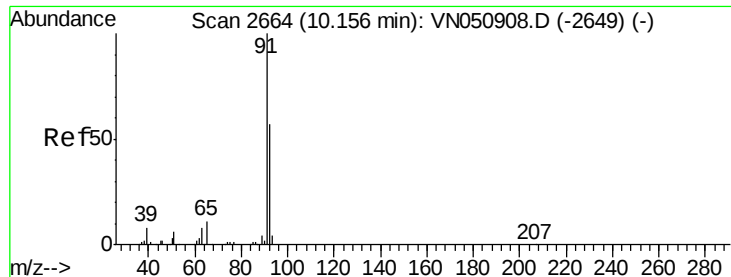
Tot Ion: 43 Resp: 975
Ion Ratio Lower Upper
43 100
58 65.3 45.5 68.3
57 10.2 15.2 22.8#



#60
4-Bromofluorobenzene
Concen: 25.60 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN051000.D
Acq: 31 Aug 2018 20:34

Tgt Ion: 95 Resp: 195370
Ion Ratio Lower Upper
95 100
174 90.5 74.6 112.0
176 86.7 71.5 107.3





#62

Toluene

Concen: 504.84 ug/l

RT: 10.16 min Scan# 2664

Delta R.T. 0.00 min

Lab File: VN051000.D

Acq: 31 Aug 2018 20:34

Instrument :

MSVOA_N

ClientSampleId :

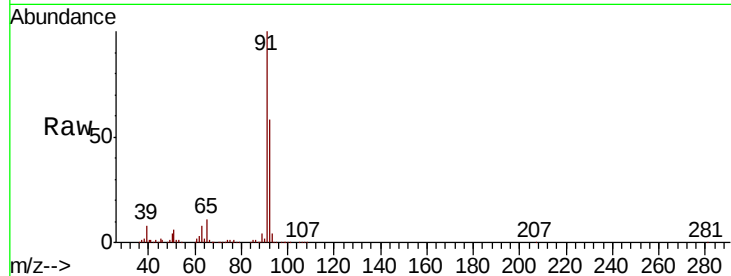
002M-35TH-AVE(AUG)

Tot Ion: 91 Resp:14454182

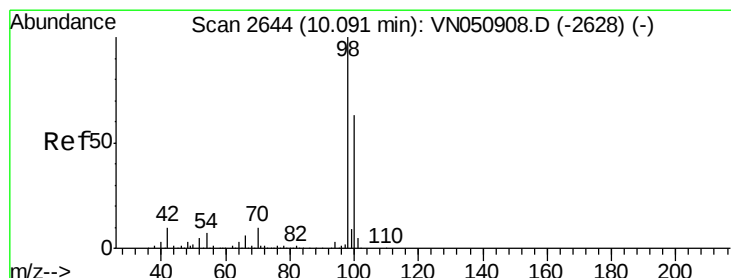
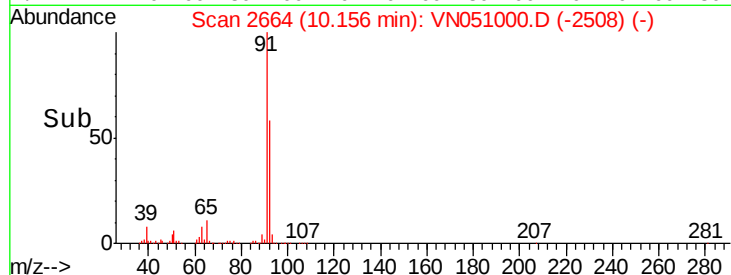
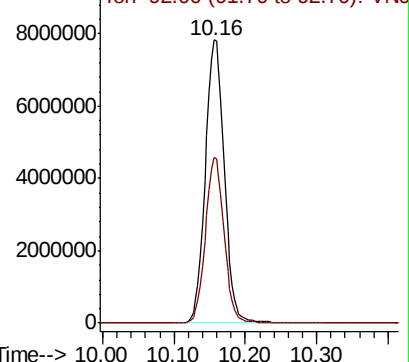
Ion Ratio Lower Upper

91 100

92 57.8 45.8 68.8



Abundance Ion 91.00 (90.70 to 91.70): VN050908.D (-2649) (-)



#63

Toluene-d8

Concen: 29.01 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VN051000.D

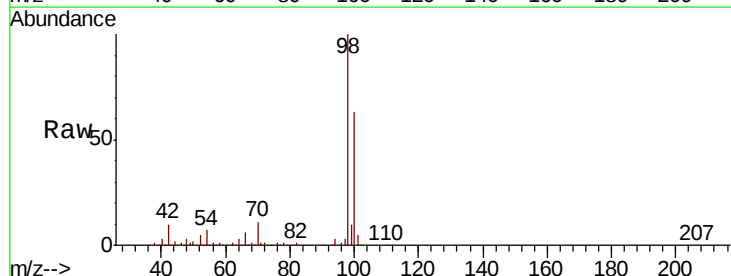
Acq: 31 Aug 2018 20:34

Tgt Ion: 98 Resp: 694313

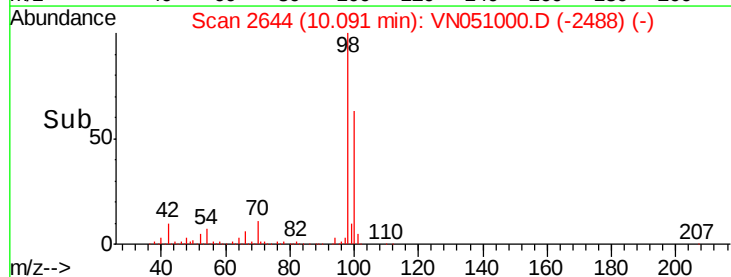
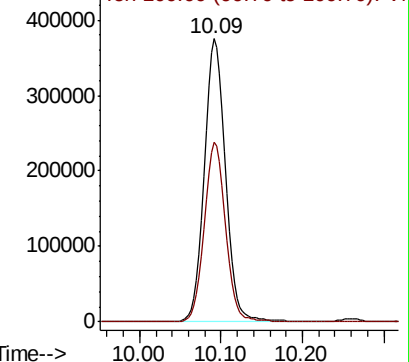
Ion Ratio Lower Upper

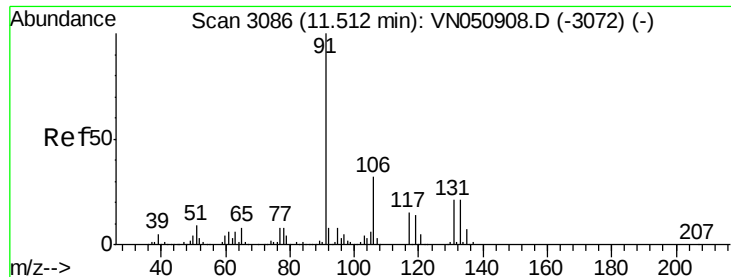
98 100

100 63.5 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VN050908.D (-2628) (-)

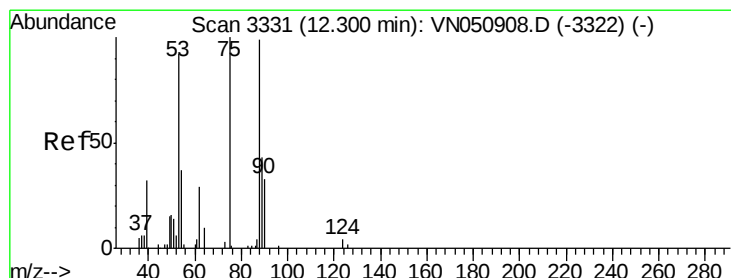
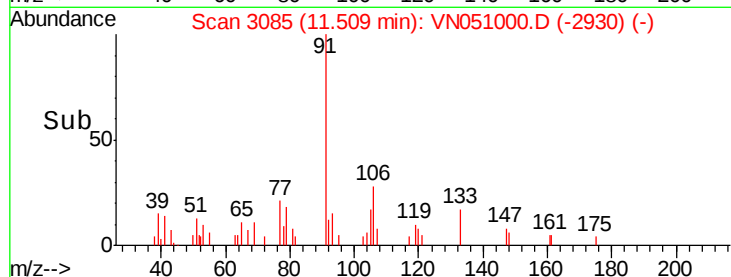
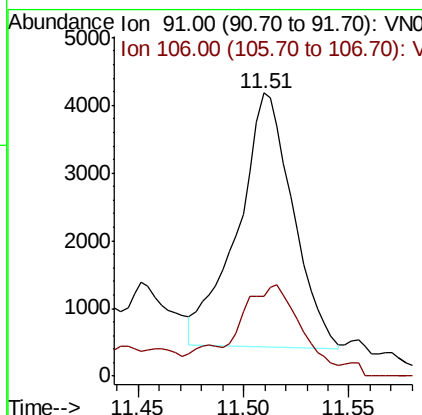
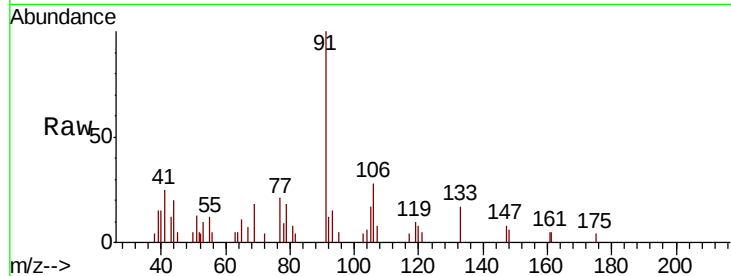




#66
Ethyl Benzene
Concen: 0.23 ug/l
RT: 11.51 min Scan# 3085
Delta R.T. -0.00 min
Lab File: VN051000.D
Acq: 31 Aug 2018 20:34

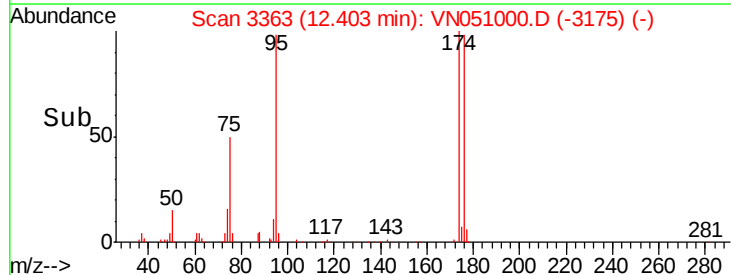
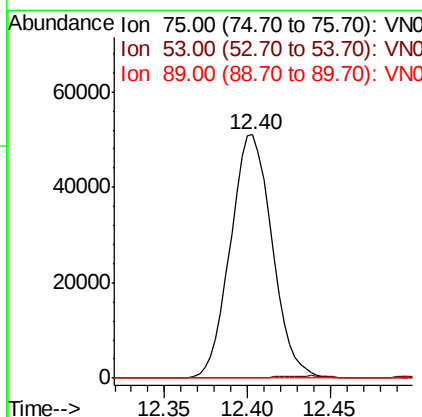
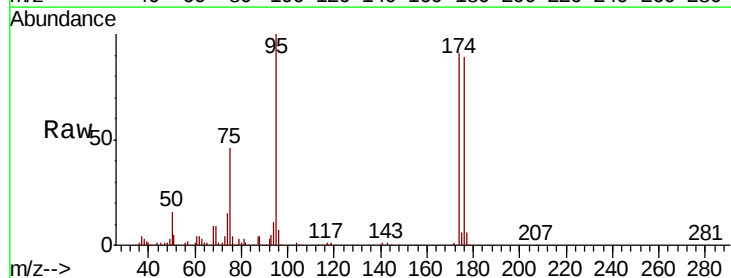
Instrument :
MSVOA_N
ClientSampleId :
002M-35TH-AVE(AUG)

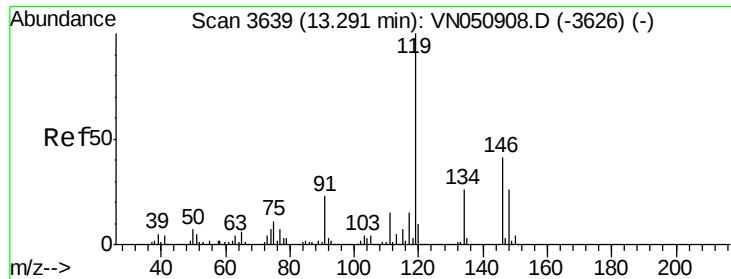
Tot Ion: 91 Resp: 6814
Ion Ratio Lower Upper
91 100
106 27.5 25.7 38.5



#77
t-1,4-Dichloro-2-butene
Concen: 46.49 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.10 min
Lab File: VN051000.D
Acq: 31 Aug 2018 20:34

Tgt Ion: 75 Resp: 89625
Ion Ratio Lower Upper
75 100
53 0.0 45.5 136.4#
89 0.0 21.9 65.8#

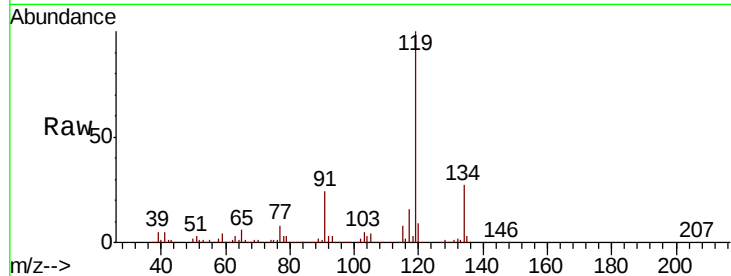




#82
p-Isopropyltoluene
Concen: 12.95 ug/l
RT: 13.29 min Scan# 3639
Delta R.T. 0.00 min
Lab File: VN051000.D
Acq: 31 Aug 2018 20:34

Instrument :
MSVOA_N
ClientSampleId :
002M-35TH-AVE(AUG)

Tot Ion	Ratio	Lower	Upper
119	100		
134	27.0	0.0	53.2
91	23.3	0.0	46.0

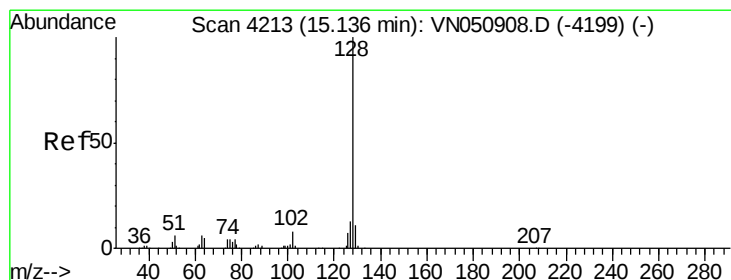
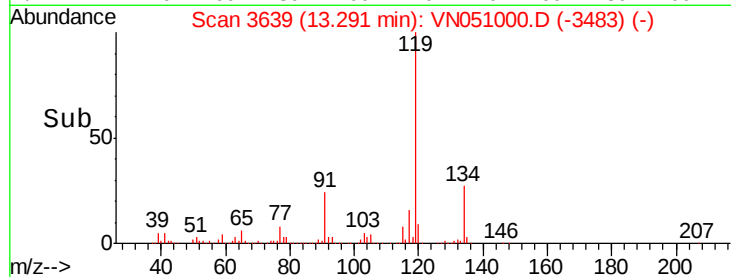
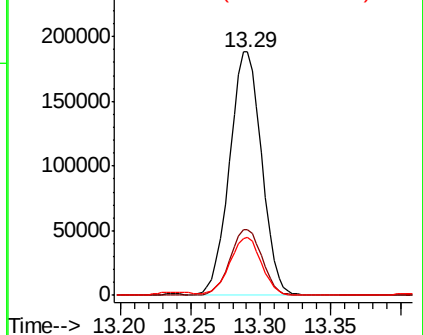


Abundance

Ion 119.00 (118.70 to 119.70): V

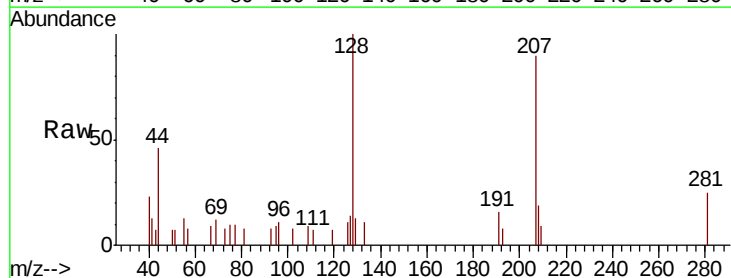
Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#91
Naphthalene
Concen: 8.81 ug/l
RT: 15.14 min Scan# 4213
Delta R.T. 0.00 min
Lab File: VN051000.D
Acq: 31 Aug 2018 20:34

Tgt Ion	Ratio	Lower	Upper
128	100		
127	9.6	10.6	16.0#
129	9.5	8.7	13.1



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

