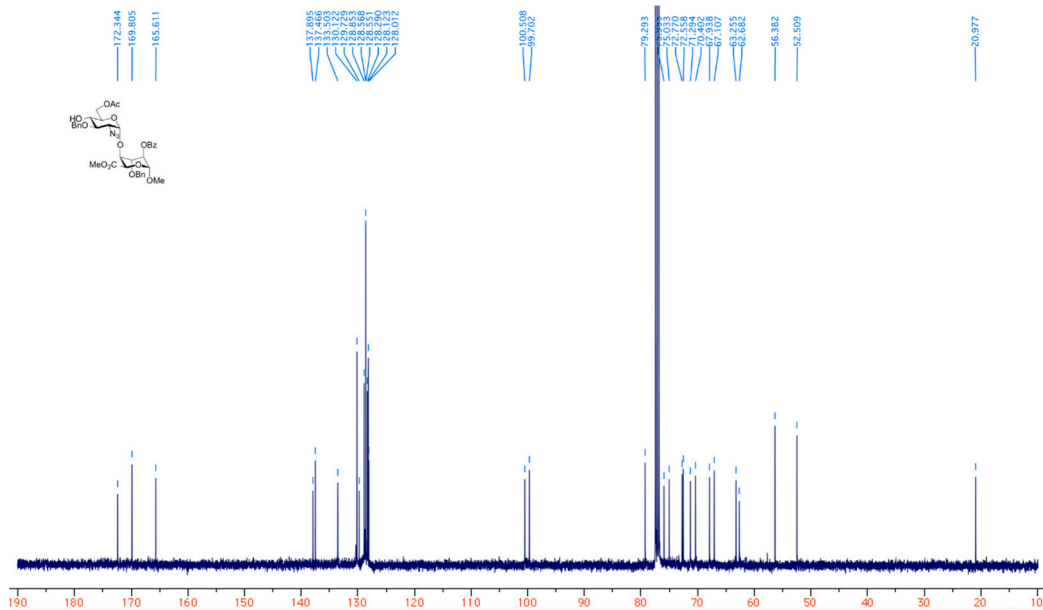
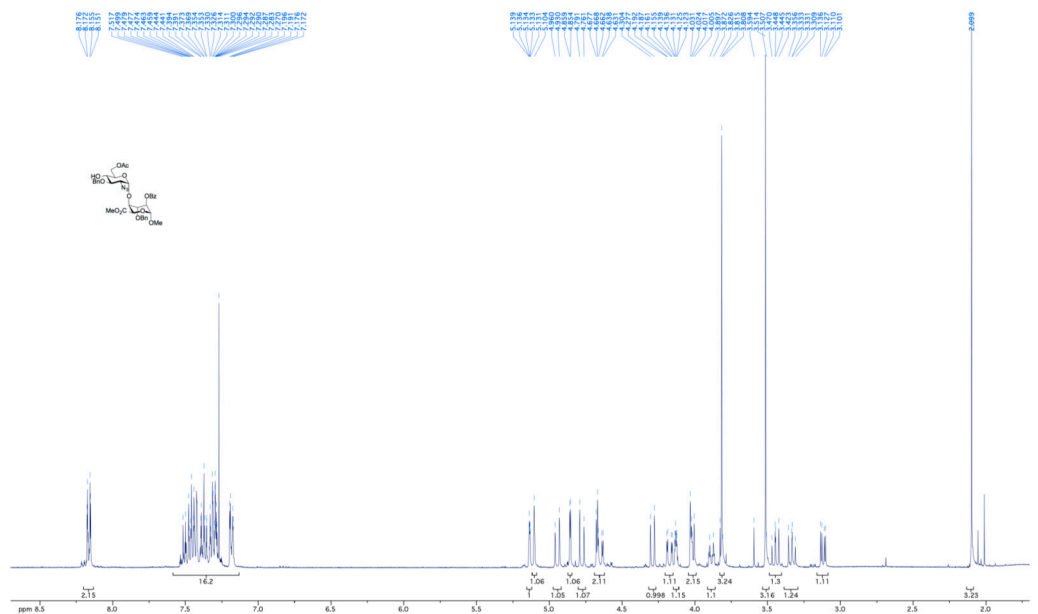
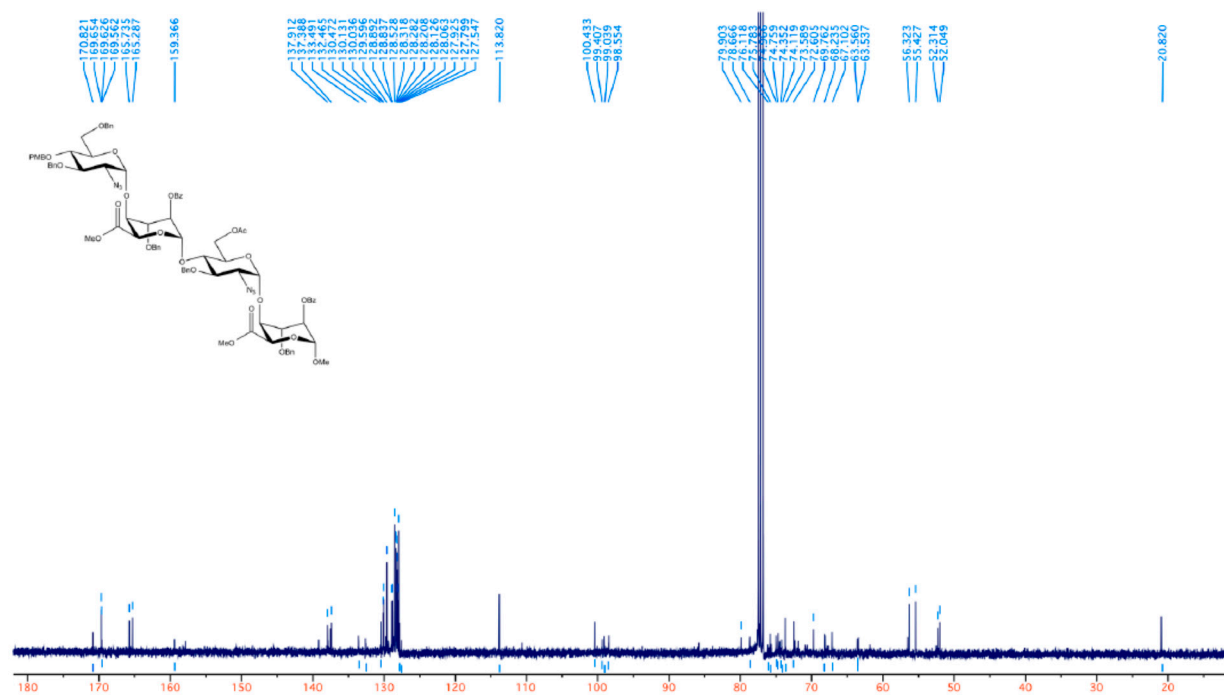
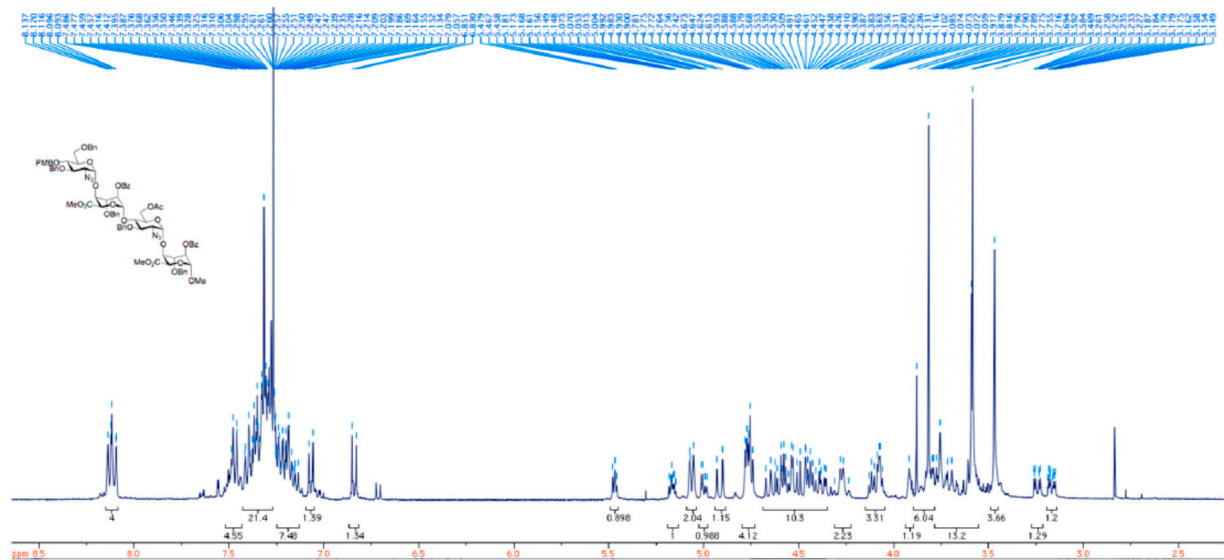


Supplementary File

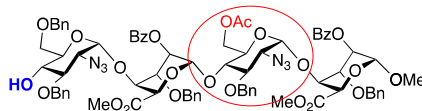
Methyl 6-O-acetyl-2-azido-3-O-benzyl-2-deoxy- α -D-glucopyranosyl-(1 \rightarrow 4)-(methyl 2-O-benzoyl-3-O-benzyl- α -L-idopyranoside) uronate (4)



Methyl (2-azido-3,6-di-*O*-benzyl-2-deoxy-4-*O*-*p*-methoxybenzyl- α -D-glucopyranosyl-(1-4)-(methyl 2-*O*-benzoyl-3-*O*-benzyl- α -L-idopyranosyl) uronate)-(1-4)-6-*O*-acetyl-2-azido-3-*O*-benzyl-2-deoxy- α -D-glucopyranosyl-(1-4)-(methyl 2-*O*-benzoyl-3-*O*-benzyl- α -L-idopyranoside) uronate (5)



Methyl (2-azido-3,6-di-*O*-benzyl-2-deoxy-4-hydroxy- α -D-glucopyranosyl-(1-4)-(methyl 2-*O*-benzoyl-3-*O*-benzyl- α -L-idopyranosyl) uronate)-(1-4)-6-*O*-acetyl-2-azido-3-*O*-benzyl-2-deoxy- α -D-glucopyranosyl-(1-4)-(methyl 2-*O*-benzoyl-3-*O*-benzyl- α -Lidopyranoside)uronate (O4 deprotection of 5). LCMS Data 1.



Display Report

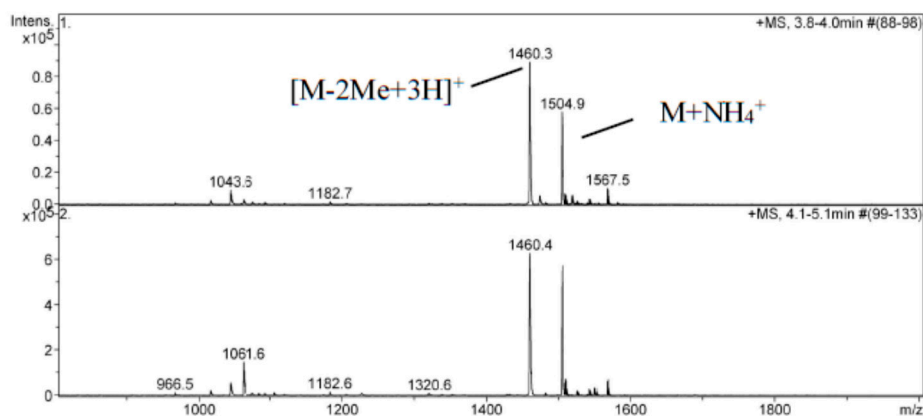
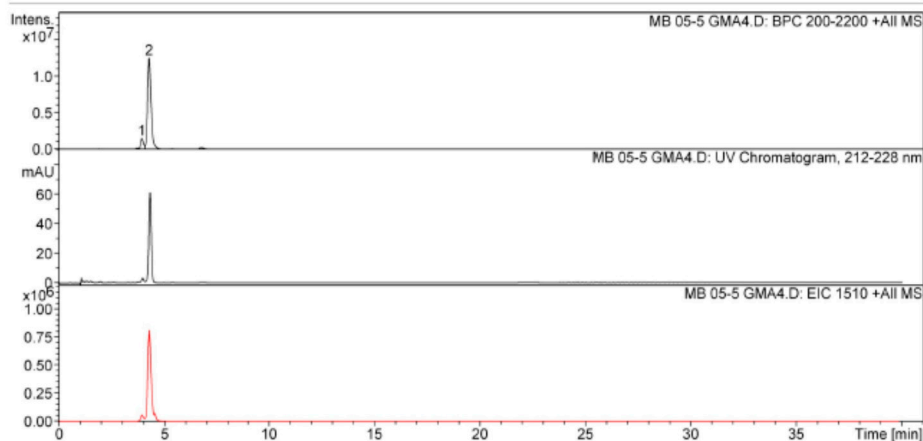
Analysis Info

Analysis Name MB 05-5 GMA4.D
 Method 90ACN.M
 Sample Name MB 05-5/GMA4
 Comment MB 05-5/GMA4
 Kinetex XB C18 4.6x100mm 5u
 90ACN 1ml/mn +ve APCI

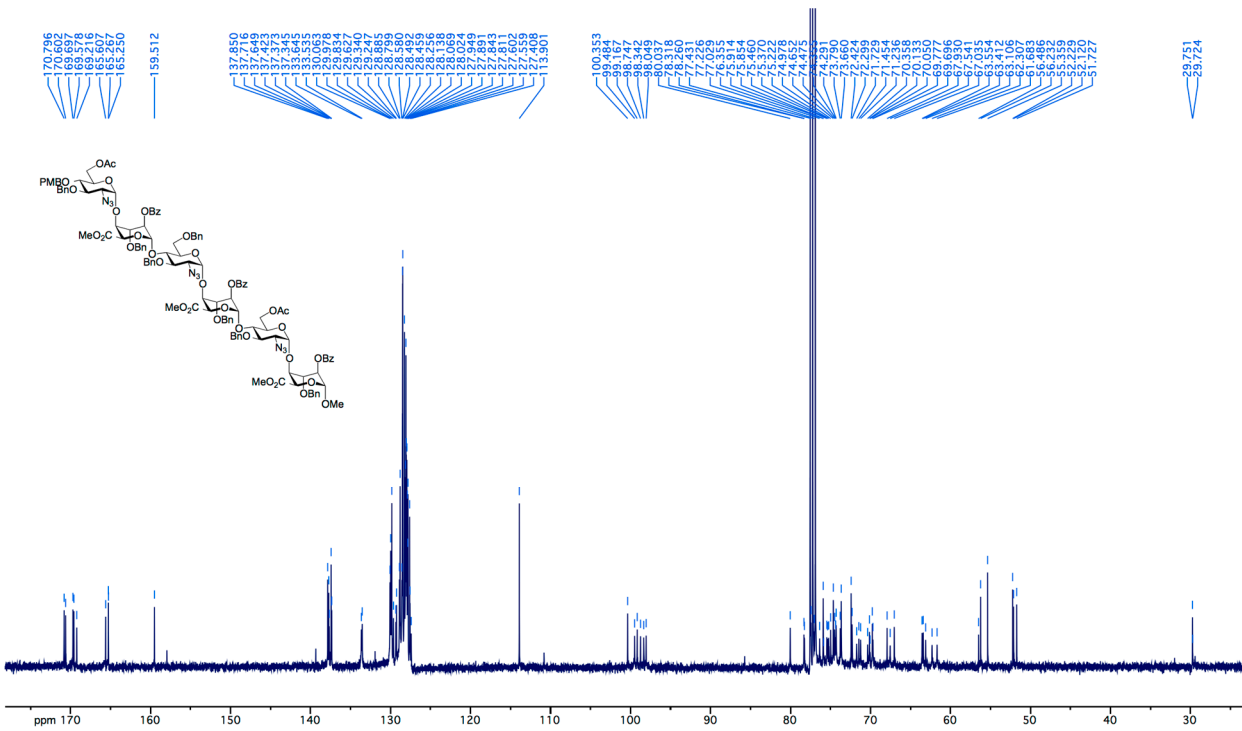
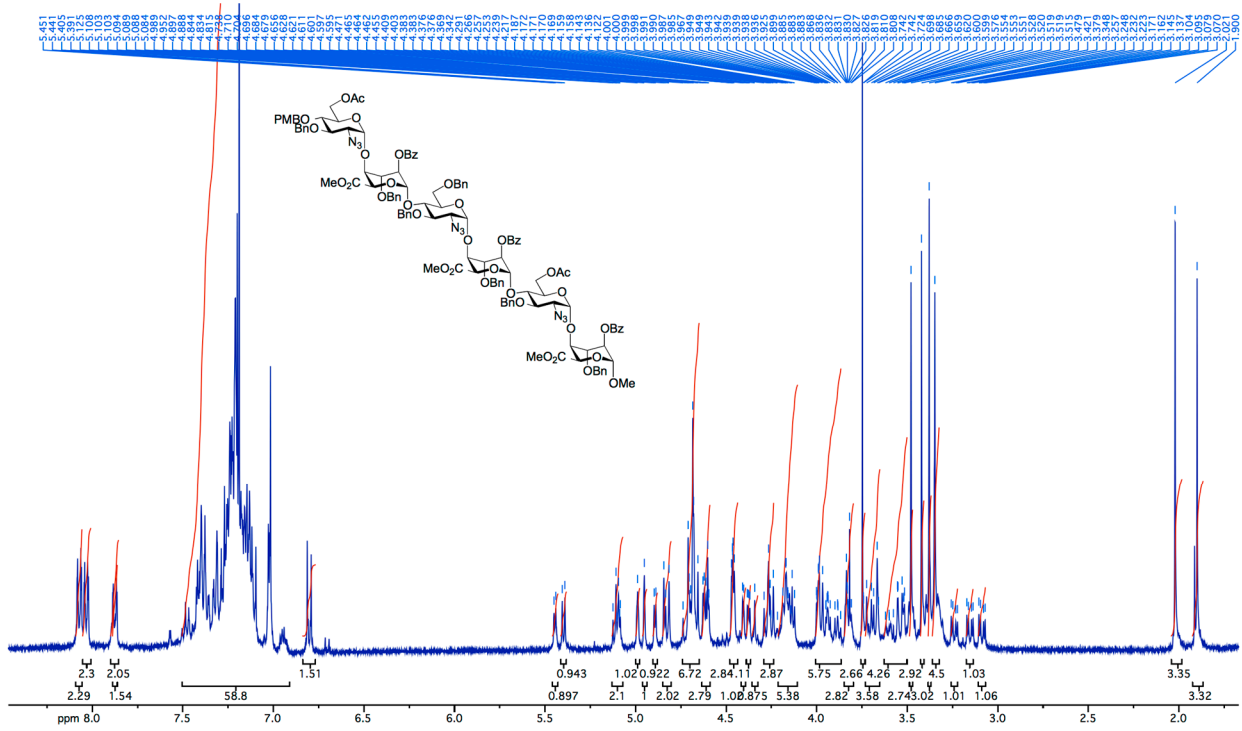
Acquisition Date 13/02/2015 16:22:49
 Operator mib
 Instrument LC-MSD-Trap-SL

Acquisition Parameter

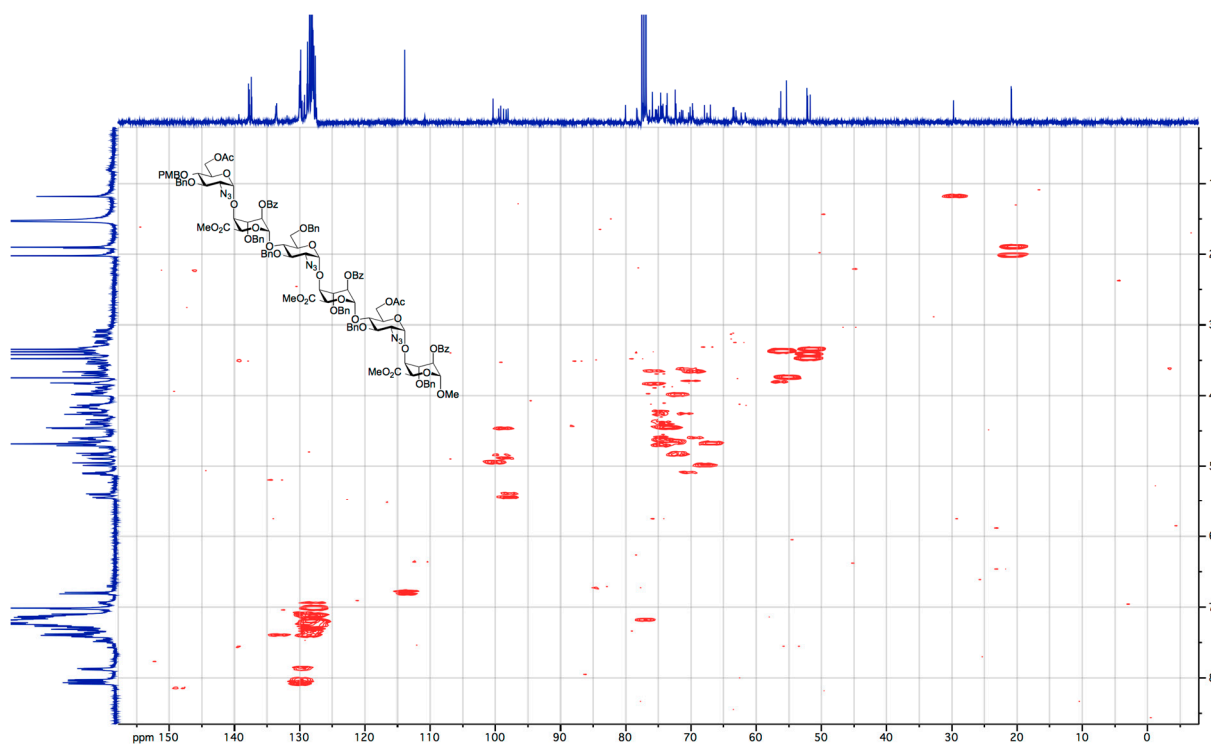
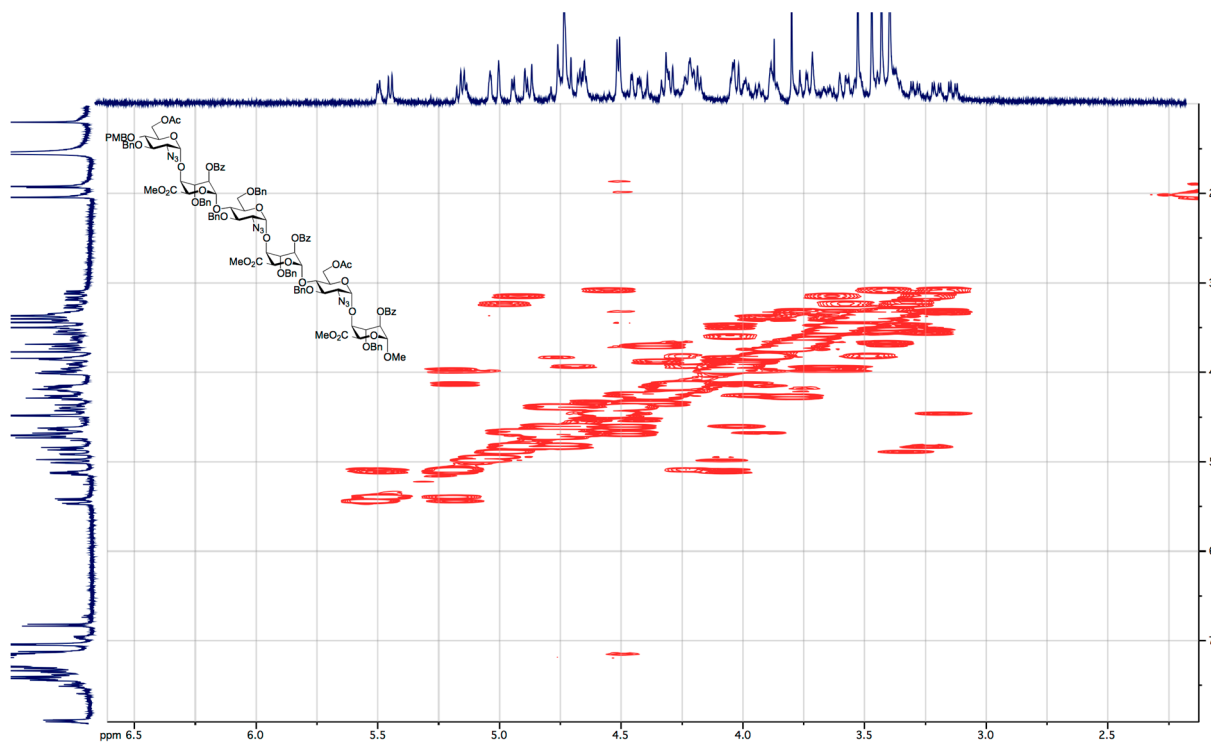
Ion Source Type	APCI	Ion Polarity	Positive	Alternating Ion Polarity	off
Mass Range Mode	Std/Normal	Scan Begin	500 m/z	Scan End	2200 m/z
Capillary Exit	181.0 Volt	Skim 1	40.0 Volt	Trap Drive	131.0
Accumulation Time	200000 μ s	Averages	7 Spectra	Auto MS/MS	off



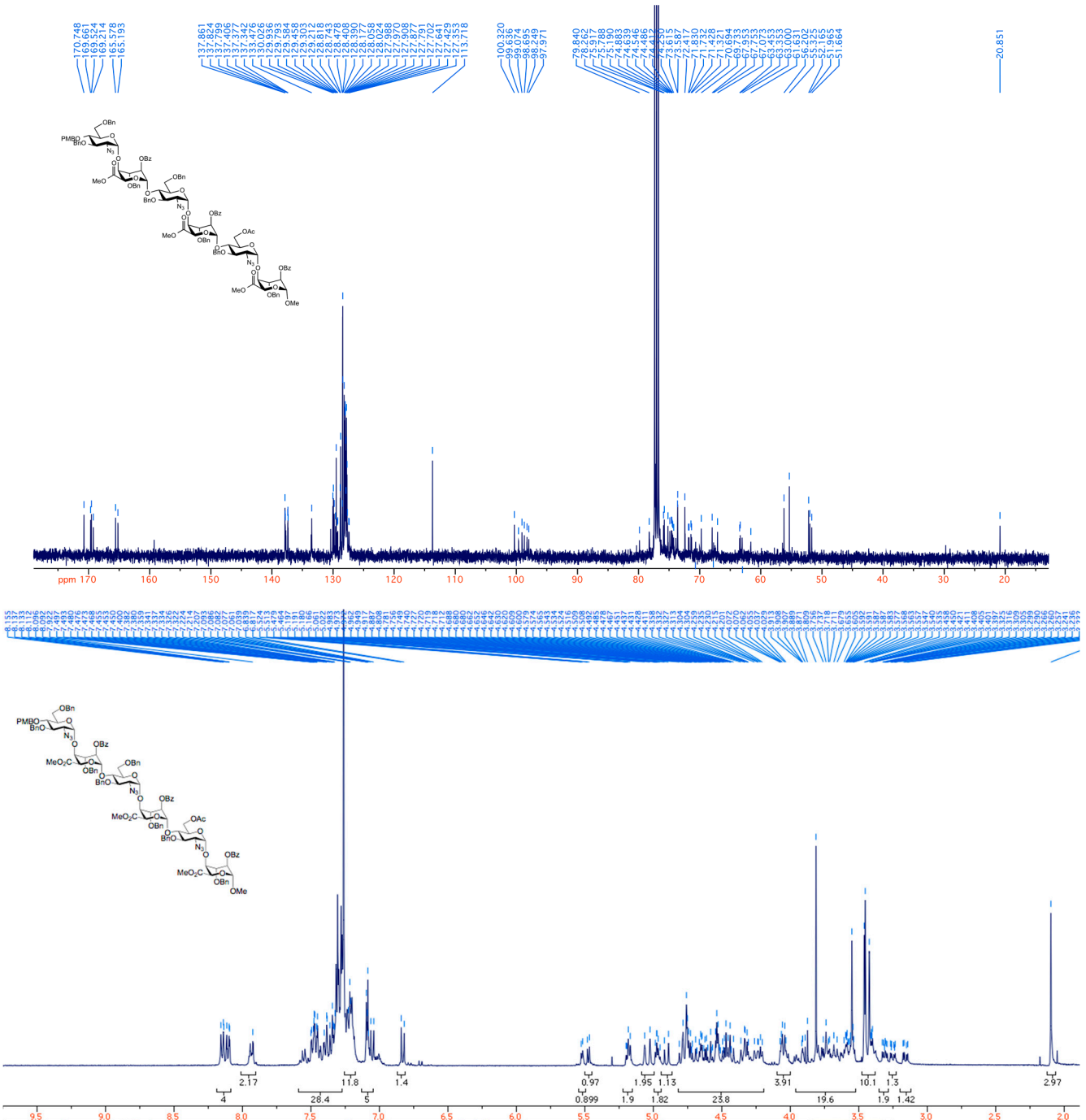
Methyl (6-*O*-acetyl-2-azido-3-*O*-benzyl-2-deoxy-4-*O*-*p*-methoxybenzyl- α -D-glucopyranosyl-(1-4)-(methyl 2-*O*-benzoyl-3-*O*-benzyl- α -L-idopyranosyl) uronate)-(1-4)-2-azido-3,6-di-*O*-benzyl-2-deoxy- α -D-glucopyranosyl-(1-4)-(methyl 2-*O*-benzoyl-3-*O*-benzyl- α -L-idopyranosyl) uronate)-(1-4)-6-*O*-acetyl-2-azido-3-*O*-benzyl-2-deoxy- α -D-glucopyranosyl-(1-4)-(methyl 2-*O*-benzoyl-3-*O*-benzyl- α -L-idopyranoside) urinate (7)



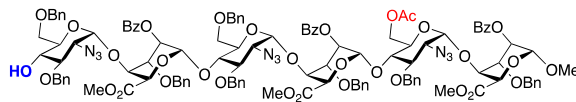
Methyl (6-*O*-acetyl-2-azido-3-*O*-benzyl-2-deoxy-4-*O*-*p*-methoxybenzyl- α -D-glucopyranosyl-(1-4)-(methyl 2-*O*-benzoyl-3-*O*-benzyl- α -L-idopyranosyl) uronate)-(1-4)-2-azido-3,6-di-*O*-benzyl-2-deoxy- α -D-glucopyranosyl-(1-4)-(methyl 2-*O*-benzoyl-3-*O*-benzyl- α -L-idopyranosyl) uronate)-(1-4)-6-*O*-acetyl-2-azido-3-*O*-benzyl-2-deoxy- α -D-glucopyranosyl-(1-4)-(methyl 2-*O*-benzoyl-3-*O*-benzyl- α -L-idopyranoside) urinate (7)



Methyl (2-azido-3,6-di-*O*-benzyl-2-deoxy-4-*O*-*p*-methoxybenzyl- α -D-glucopyranosyl-(1 \rightarrow 4)-(methyl 2-*O*-benzoyl-3-*O*-benzyl- α -L-idopyranosyl) uronate)-(1 \rightarrow 4)-2-azido-3,6-di-*O*-benzyl-2-deoxy- α -D-glucopyranosyl-(1 \rightarrow 4)-(methyl 2-*O*-benzoyl-3-*O*-benzyl- α -L-idopyranosyl) uronate)-(1 \rightarrow 4)-6-*O*-acetyl-2-azido-3-*O*-benzyl-2-deoxy- α -D-glucopyranosyl-(1 \rightarrow 4)-(methyl 2-*O*-benzoyl-3-*O*-benzyl- α -L-idopyranoside) uronate (8)



Methyl (2-azido-3,6-di-*O*-benzyl-2-deoxy-4-hydroxy- α -D-glucopyranosyl-(1 \rightarrow 4)-(methyl 2-*O*-benzoyl-3-*O*-benzyl- α -L-idopyranosyl)uronate)-(1 \rightarrow 4)-2-azido-3,6-di-*O*-benzyl-2-deoxy- α -D-glucopyranosyl-(1 \rightarrow 4)-(methyl 2-*O*-benzoyl-3-*O*-benzyl- α -L-idopyranosyl)uronate)-(1 \rightarrow 4)-6-*O*-acetyl-2-azido-3-*O*-benzyl-2-deoxy- α -D-glucopyranosyl-(1 \rightarrow 4)-(methyl 2-*O*-benzoyl-3-*O*-benzyl- α -L-idopyranoside)uronate (O4 deprotection of 8). LCMS 1.



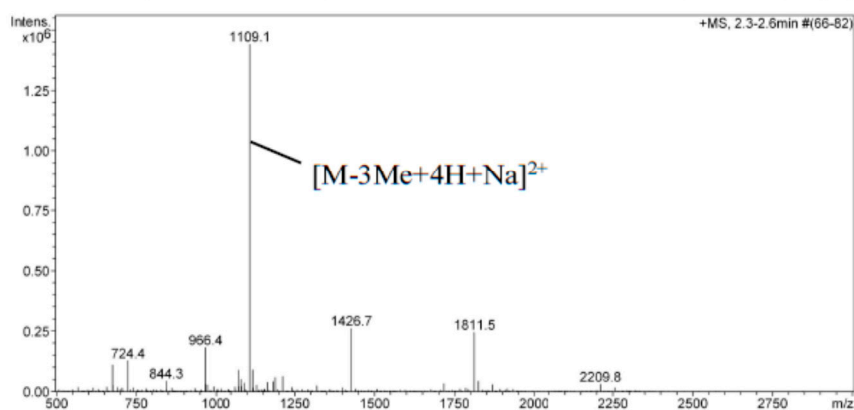
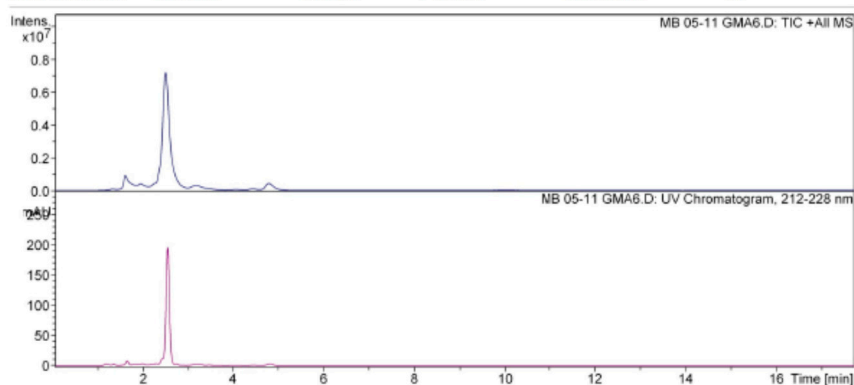
Display Report

Analysis Info

Analysis Name	MB 05-11 GMA6.D	Acquisition Date	16/02/2015 11:38:04
Method	100ACN.M	Operator	mib
Sample Name	MB 05-11/GMA6	Instrument	LC-MSD-Trap-SL
Comment	MB 05-11/GMA6 Kinetex XB C18 4.6x100mm 5u 100ACN 1ml/min +ve APCI		

Acquisition Parameter

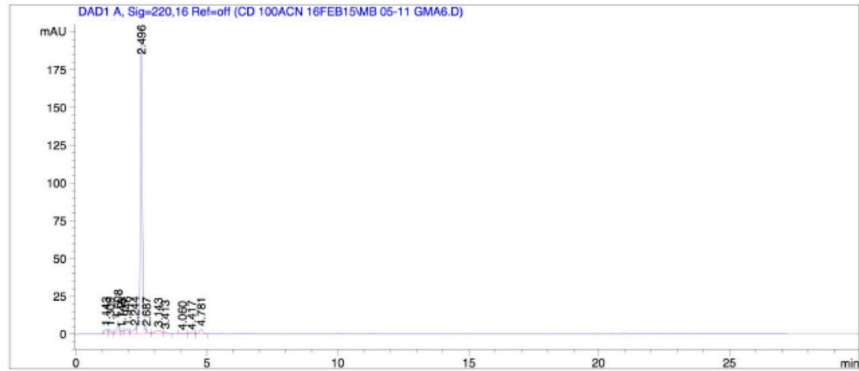
Ion Source Type	APCI	Ion Polarity	Positive	Alternating Ion Polarity	off
Mass Range Mode	Extended	Scan Begin	500 m/z	Scan End	3000 m/z
Capillary Exit	211.0 Volt	Skim 1	40.0 Volt	Trap Drive	170.7
Accumulation Time	200000 μ s	Averages	7 Spectra	Auto MS/MS	off



Data File C:\HPCHEM\1\DATA\CD 100ACN 16FEB15\MB 05-11 GMA6.D
 Sample Name: MB 05-11/GMA6

```

=====
Acq. Operator   : Rehana                      Seq. Line :    2
Acq. Instrument : Instrument 1                 Location  : Vial 6
Injection Date  : 16/02/2015 11:37:39        Inj       :    1
                                           Inj Volume: 50 µl
Different Inj Volume from Sequence 1      Actual Inj Volume : 10 µl
Acq. Method    : C:\HPCHEM\1\METHODS\Rehana APCI LCMS\100ACN.M
Last changed   : 16/02/2015 11:36:43 by Rehana
Analysis Method : C:\HPCHEM\1\METHODS\Rehana APCI LCMS\REHANA 90ACN APCI LCMS.M
Last changed   : 16/02/2015 10:14:50 by Rehana
Sample Info    : MB 05-11/GMA6
                  Kinetex XB C18 4.6x100mm 5u
                  100ACN 1ml/min +ve APCI
=====
  
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Area Percent Report

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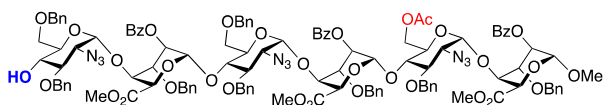
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Sorted By      : Signal
Multiplier     : 1.0000
Dilution      : 1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=220,16 Ref=off

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.143	BV	0.0941	21.93324	3.19534	1.6290
2	1.309	VV	0.0721	14.80308	2.97028	1.0994
3	1.608	VV	0.0773	43.95671	8.10042	3.2647
4	1.748	VV	0.0926	14.72439	2.18640	1.0936
5	1.946	VV	0.1196	29.09728	3.34190	2.1610
6	2.244	VV	0.1337	33.88317	3.35726	2.5165
7	2.496	VV	0.0850	1087.22021	195.11391	80.7476
8	2.687	VB	0.0930	19.19083	2.98476	1.4253
9	3.143	BV	0.2230	35.86568	2.28714	2.6637
10	3.413	VB	0.1252	7.98008	9.57534e-1	0.5927
11	4.060	BB	0.1267	2.79334	3.30273e-1	0.2075
12	4.417	BV	0.1375	6.50855	7.06515e-1	0.4834
13	4.781	VB	0.1438	28.48560	3.02598	2.1156

Totals : 1346.44216 228.55770

Methyl (2-azido-3,6-di-*O*-benzyl-2-deoxy-4-hydroxy- α -D-glucopyranosyl-(1 \rightarrow 4)-(methyl 2-*O*-benzoyl-3-*O*-benzyl- α -L-idopyranosyl) uronate)-(1 \rightarrow 4)-2-azido-3,6-di-*O*-benzyl-2-deoxy- α -D-glucopyranosyl-(1 \rightarrow 4)-(methyl 2-*O*-benzoyl-3-*O*-benzyl- α -L-idopyranosyl)uronate)-(1 \rightarrow 4)-6-*O*-acetyl-2-azido-3-*O*-benzyl-2-deoxy- α -D-glucopyranosyl-(1 \rightarrow 4)-(methyl 2-*O*-benzoyl-3-*O*-benzyl- α -L-idopyranoside) uronate (O4 deprotection of 8). LCMS 2.



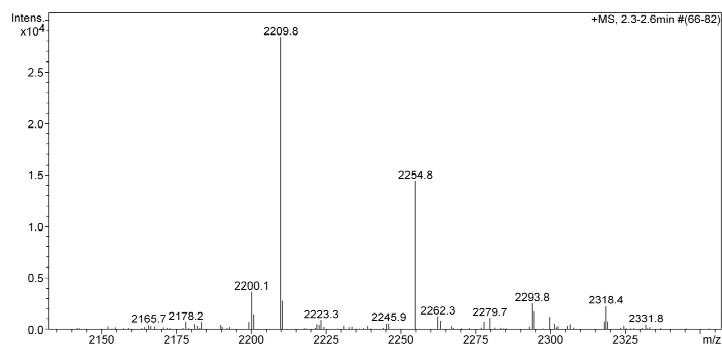
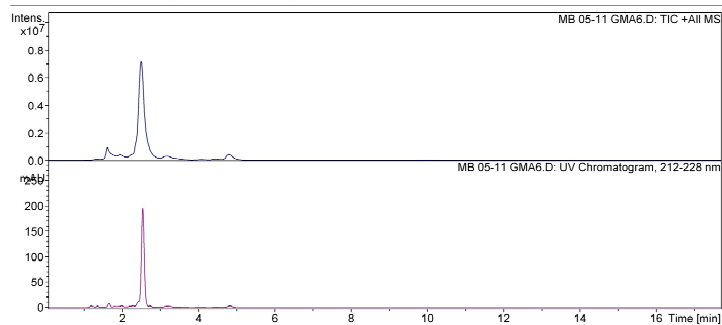
Display Report

Analysis Info

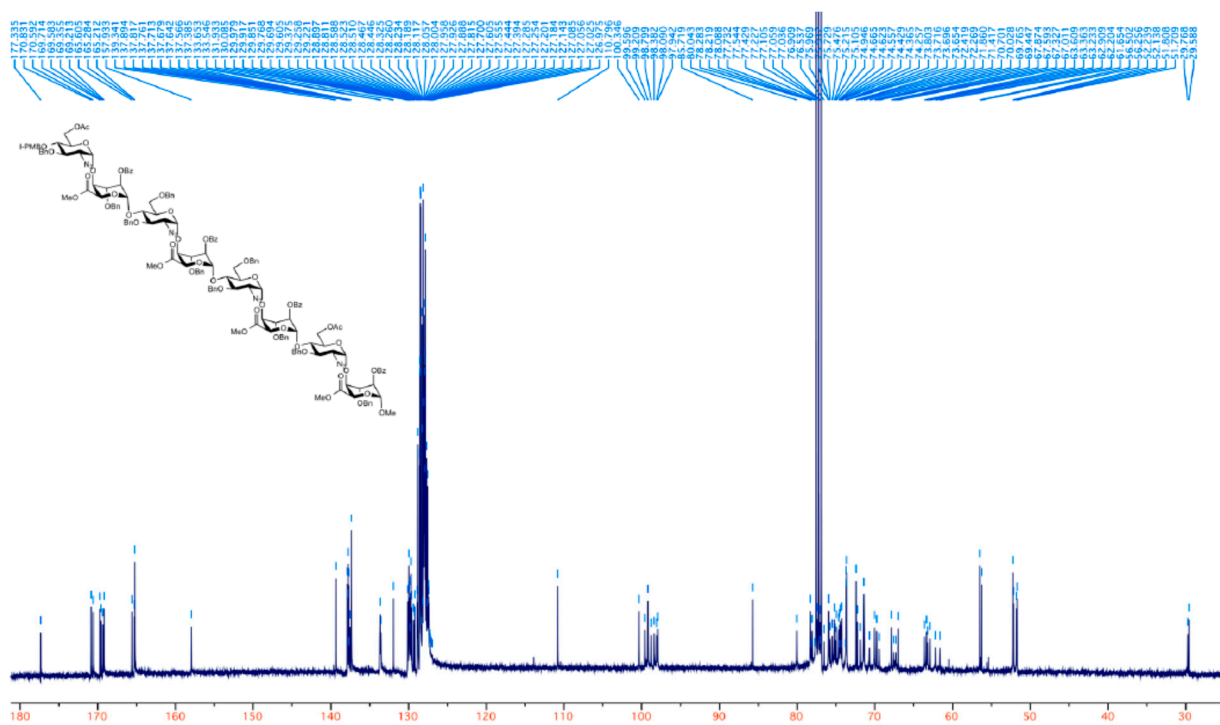
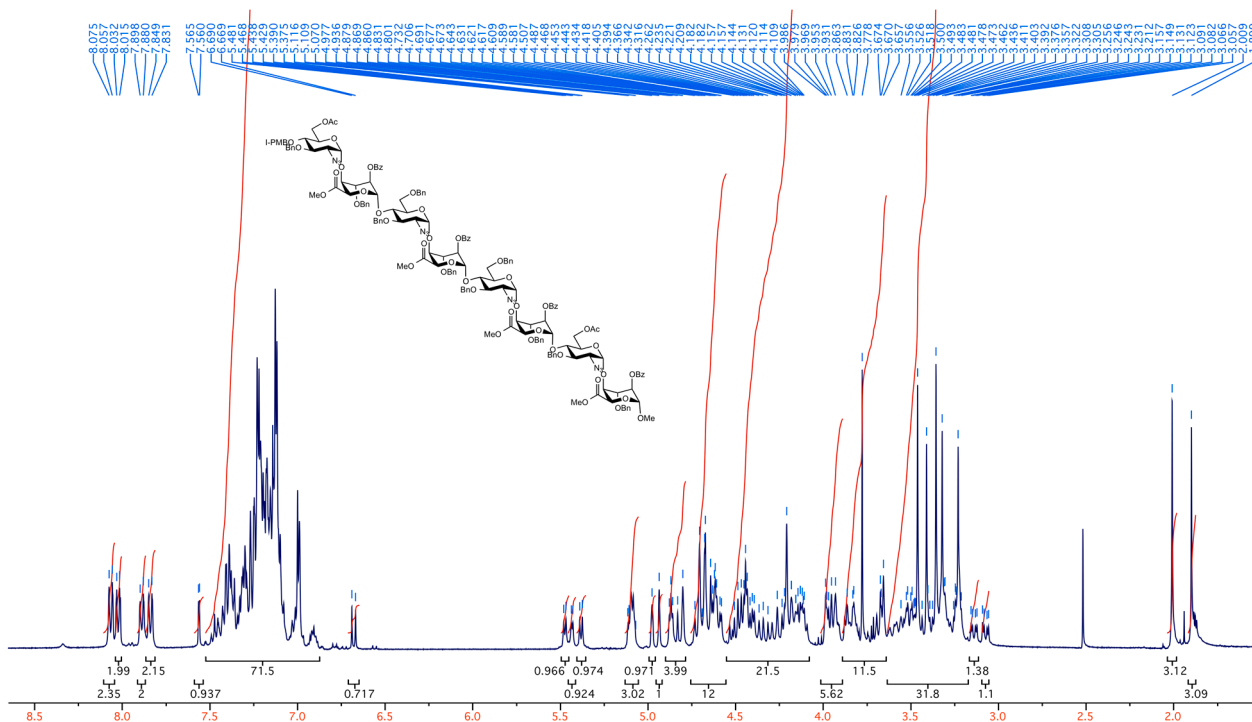
Analysis Name	MB 05-11 GMA6.D	Acquisition Date	16/02/2015 11:38:04
Method	100ACN.M	Operator	mib
Sample Name	MB 05-11/GMA6	Instrument	LC-MSD-Trap-SL
Comment	MB 05-11/GMA6 Kinetex XB C18 4.6x100mm 5u 100ACN 1ml/min +ve APCI		

Acquisition Parameter

Ion Source Type	APCI	Ion Polarity	Positive	Alternating Ion Polarity	off
Mass Range Mode	Extended	Scan Begin	500 m/z	Scan End	3000 m/z
Capillary Exit	211.0 Volt	Skim 1	40.0 Volt	Trap Drive	170.7
Accumulation Time	200000 μ s	Averages	7 Spectra	Auto MS/MS	off



Methyl (6-*O*-acetyl-2-azido-3-*O*-benzyl-2-deoxy-4-*O*-*p*-methoxy-*m*-iodo-benzyl- α -glucopyranosyl-(1 \rightarrow 4)-(methyl 2-*O*-benzoyl-3-*O*-benzyl- α -L-idopyranosyl) uronate)-(1 \rightarrow 4)-2-azido-3,6-di-*O*-benzyl-2-deoxy- α -D-glucopyranosyl-(1 \rightarrow 4)-(methyl 2-*O*-benzoyl-3-*O*-benzyl- α -L-idopyranosyl) uronate)-(1 \rightarrow 4)-2-azido-3,6-di-*O*-benzyl-2-deoxy- α -D-glucopyranosyl-(1 \rightarrow 4)-(methyl 2-*O*-benzoyl-3-*O*-benzyl- α -L-idopyranosyl)uronate)-(1 \rightarrow 4)-6-*O*-acetyl-2-azido-3-*O*-benzyl-2-deoxy- α -D-glucopyranosyl-(1 \rightarrow 4)-(methyl 2-*O*-benzoyl-3-*O*-benzyl- α -L-idopyranoside) uronate (9)



Methyl (6-*O*-acetyl-2-azido-3-*O*-benzyl-2-deoxy-4-*O*-*p*-methoxy-*m*-iodo-benzyl- α -glucopyranosyl-(1 \rightarrow 4)-(methyl 2-*O*-benzoyl-3-*O*-benzyl- α -L-idopyranosyl) uronate)-(1 \rightarrow 4)-2-azido-3,6-di-*O*-benzyl-2-deoxy- α -D-glucopyranosyl-(1 \rightarrow 4)-(methyl 2-*O*-benzoyl-3-*O*-benzyl- α -L-idopyranosyl) uronate)-(1 \rightarrow 4)-2-azido-3,6-di-*O*-benzyl-2-deoxy- α -D-glucopyranosyl-(1 \rightarrow 4)-(methyl 2-*O*-benzoyl-3-*O*-benzyl- α -L-idopyranosyl)uronate)-(1 \rightarrow 4)-6-*O*-acetyl-2-azido-3-*O*-benzyl-2-deoxy- α -D-glucopyranosyl-(1 \rightarrow 4)-(methyl 2-*O*-benzoyl-3-*O*-benzyl- α -L-idopyranoside) uronate (9)

