

## **Design, synthesis and properties investigation of N<sup>α</sup>- acylation lysine based derivatives**

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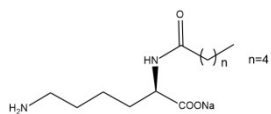
<sup>c</sup> State Key Laboratory of Materials-Oriented Chemical Engineering, Nanjing Technology University, Nanjing 211816, China;

### **Supporting Information**

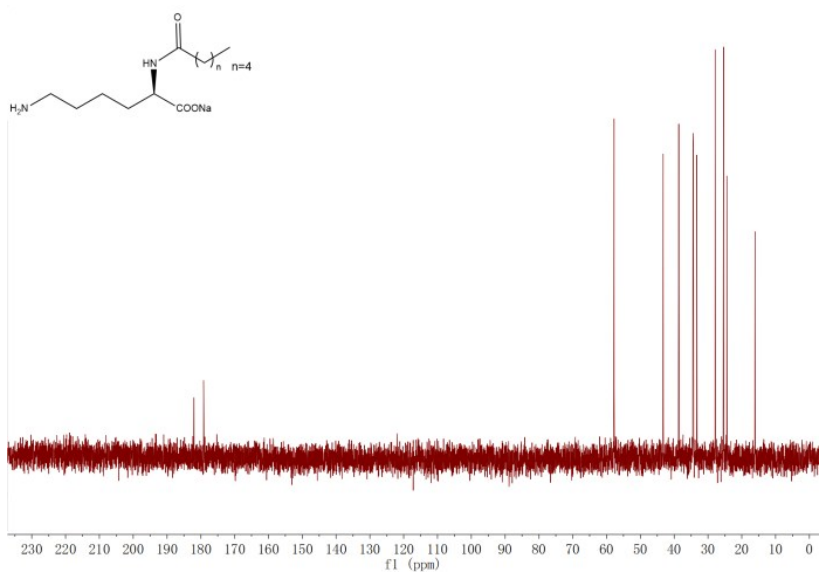
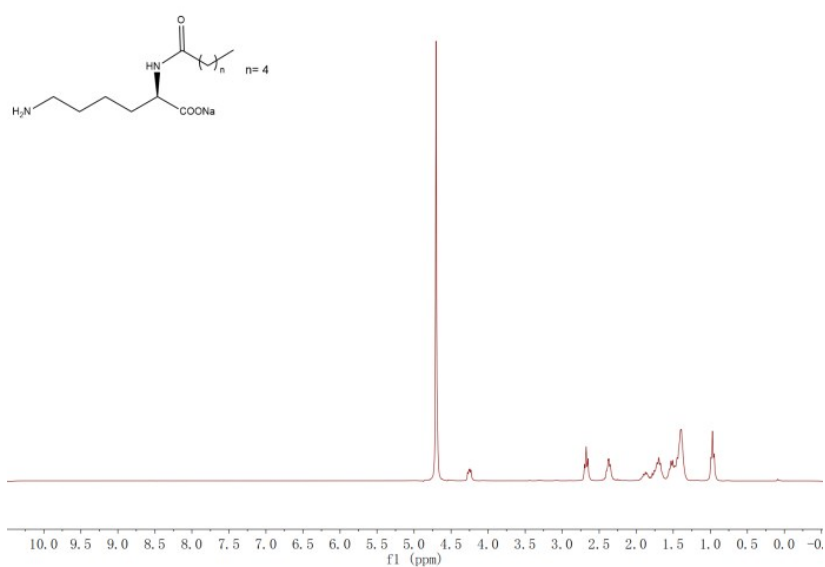
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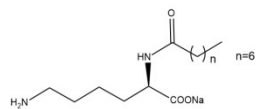
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# 1. Copies of NMR Spectra

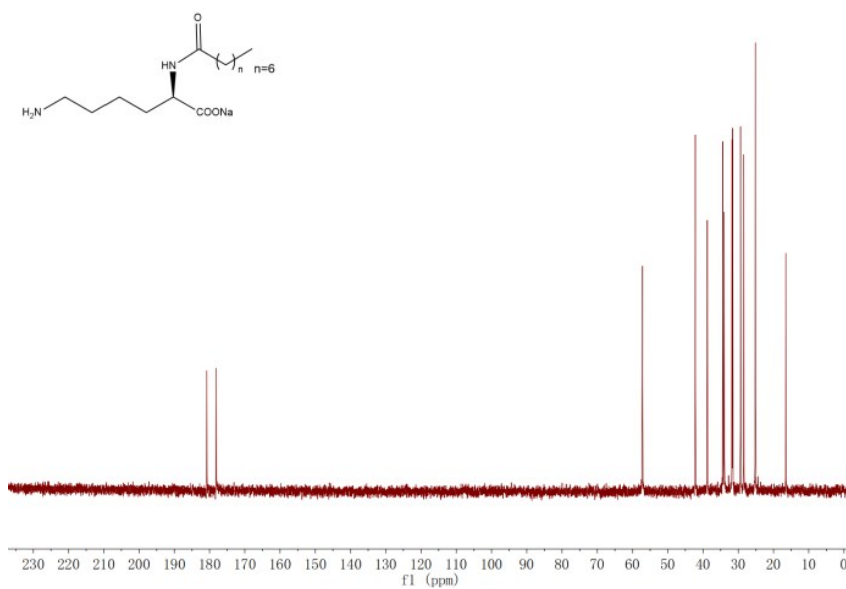
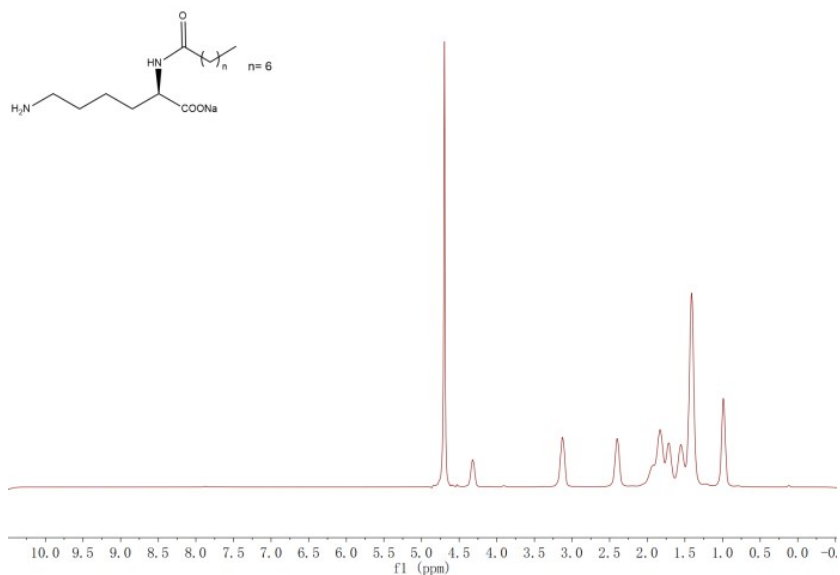


sodium N<sup>α</sup>- hexanamide lysine (4a)

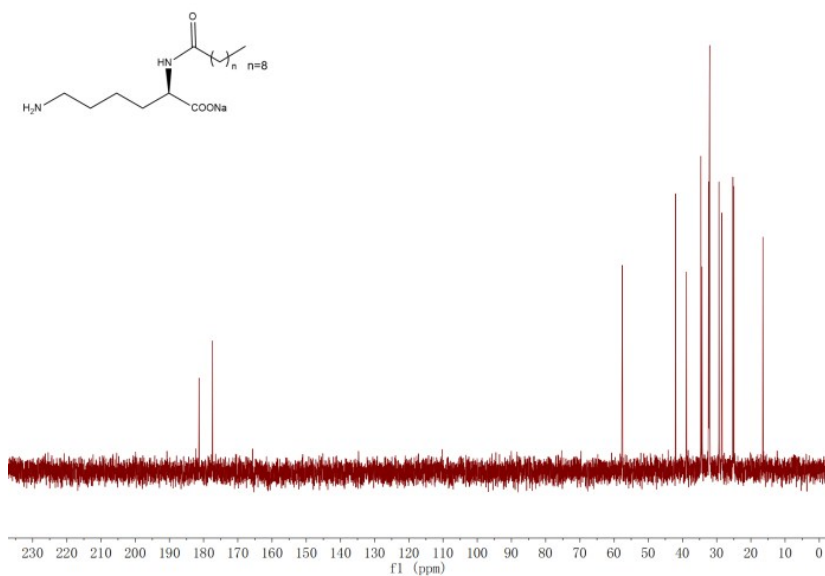
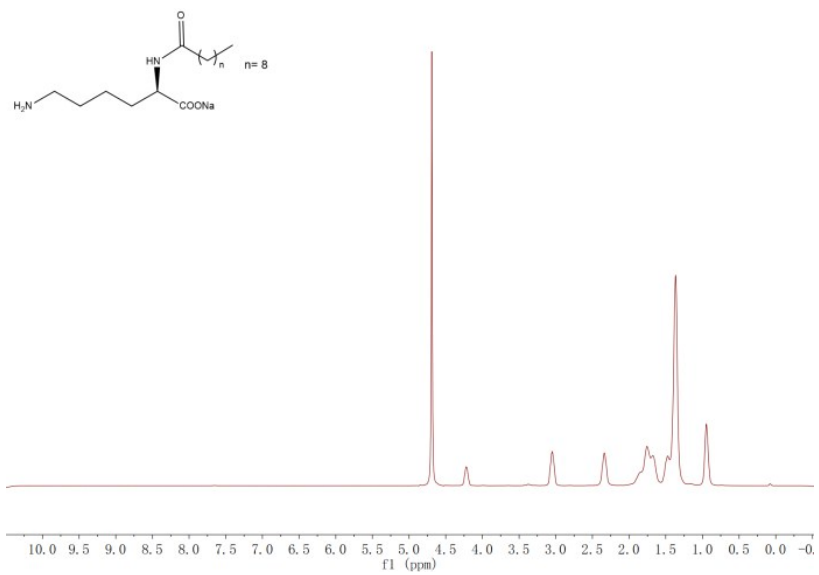
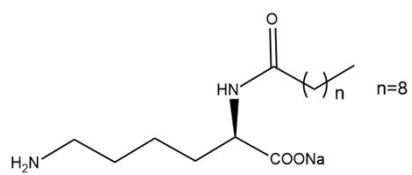




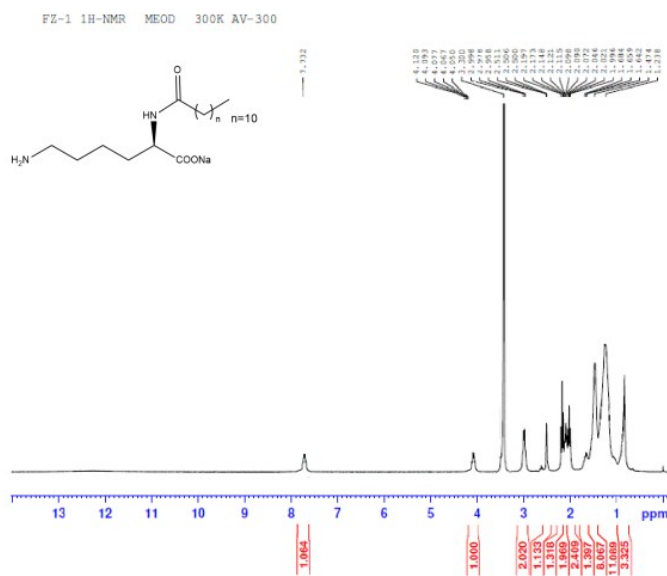
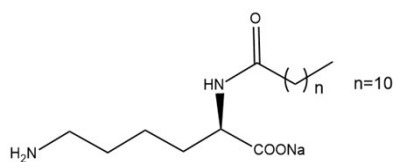
sodium N<sup>α</sup>- octanamide lysine (4b)



**sodium N<sup>α</sup>- capramide lysine (4c)**

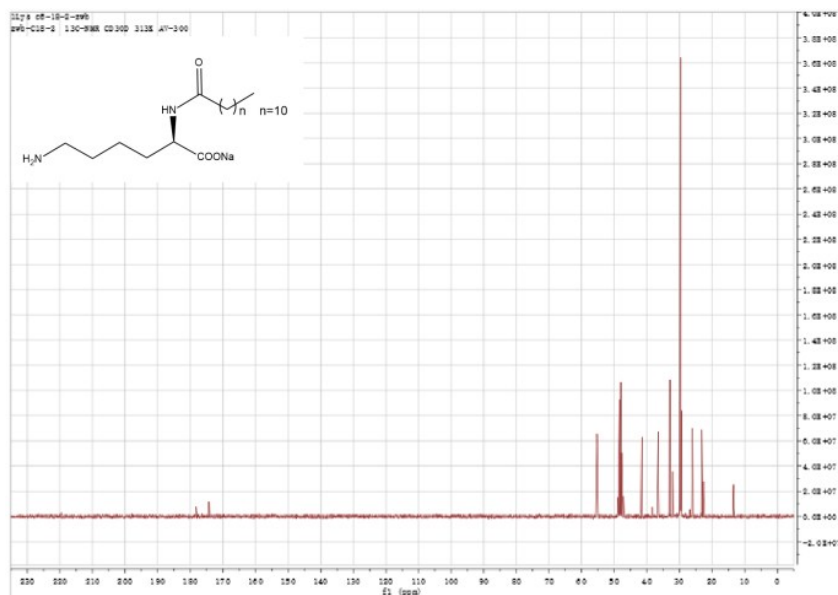


sodium N<sup>α</sup>- lauramide lysine (4d)

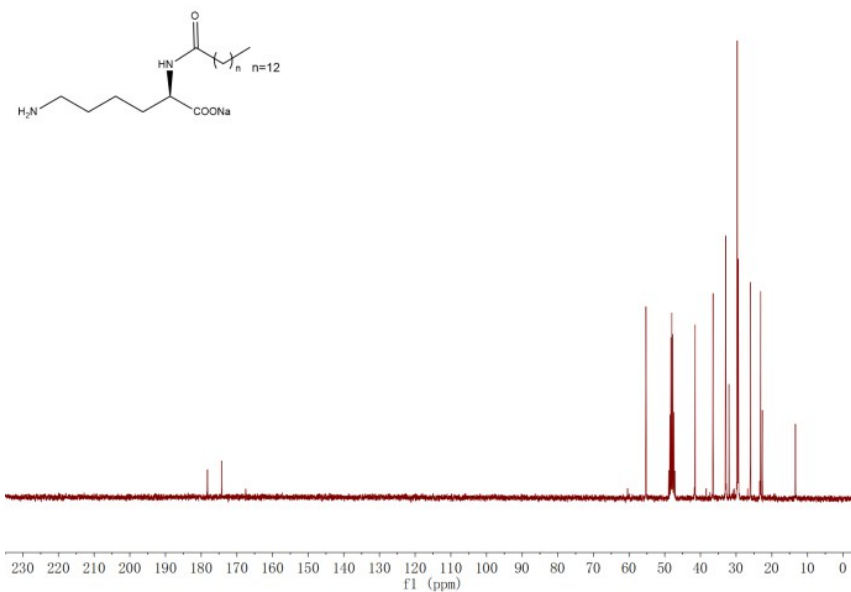
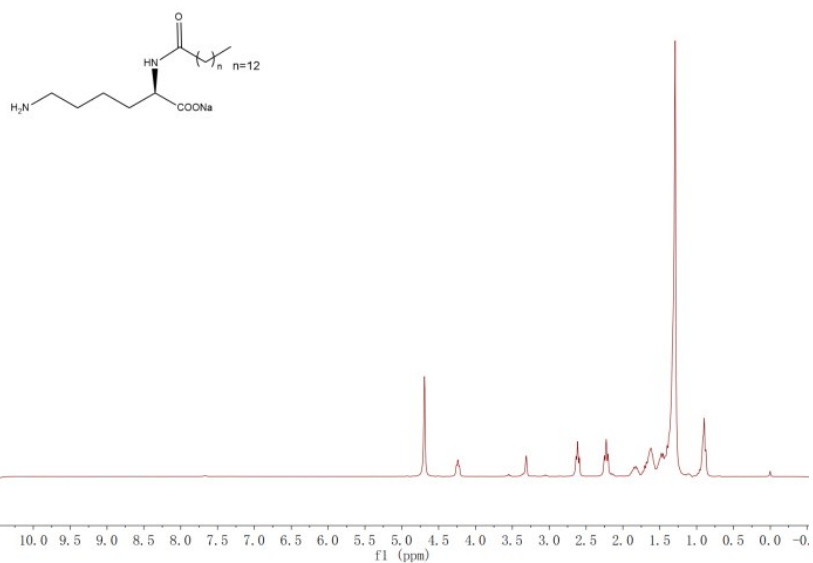
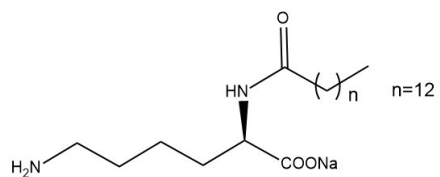


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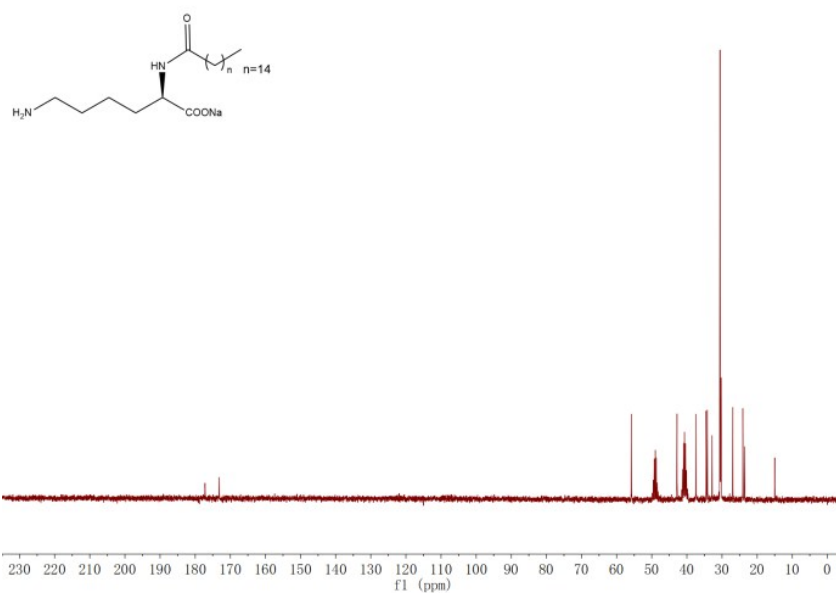
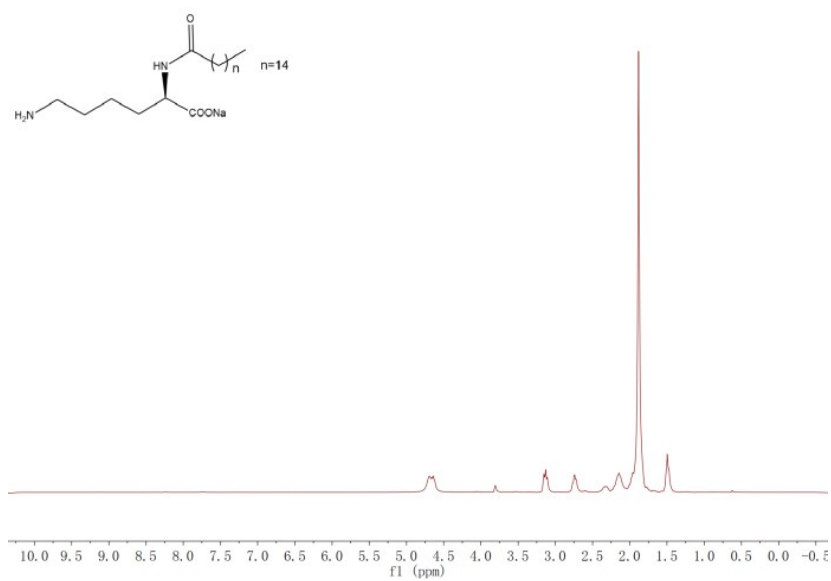
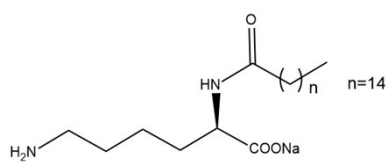
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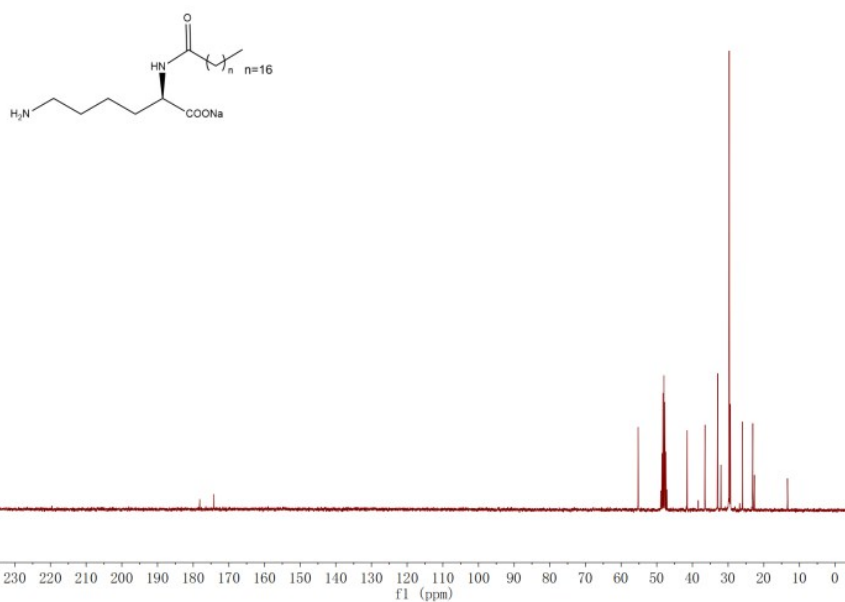
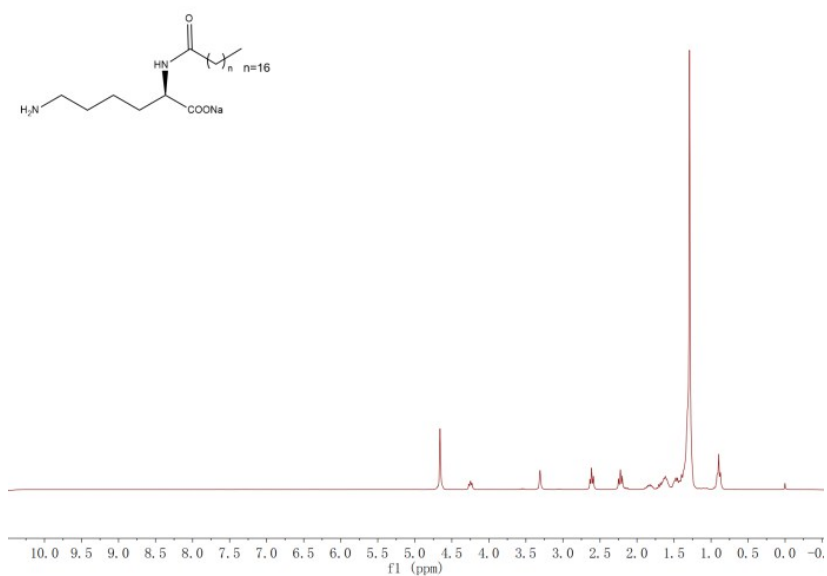
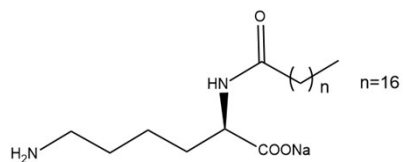
sodium N<sup>α</sup>- myristamide lysine (4e)



**sodium N<sup>α</sup>-palmitamide lysine (4f)**



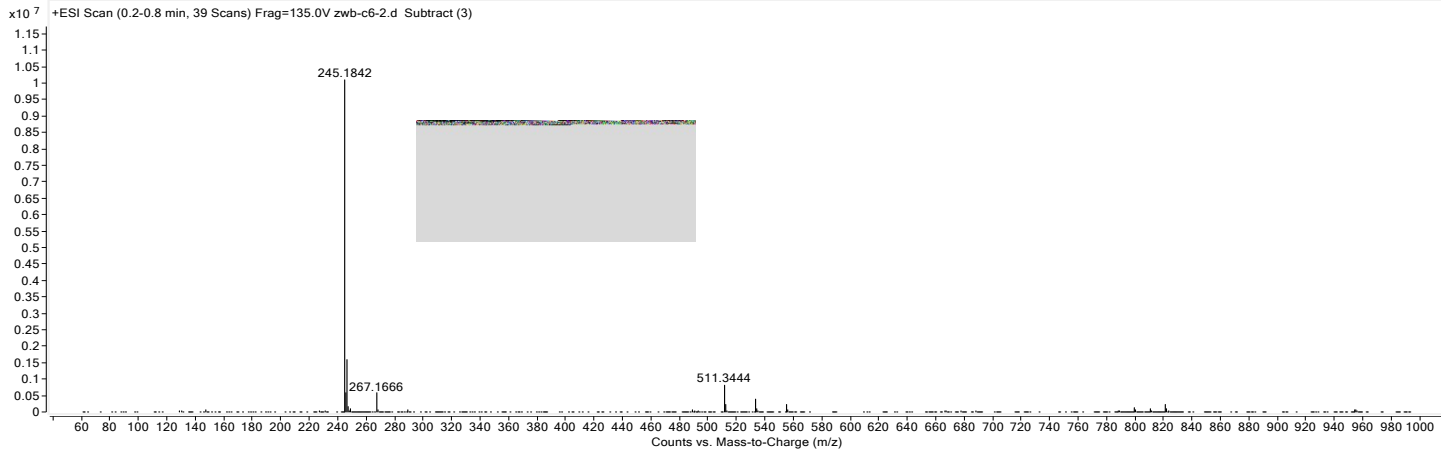
sodium N<sup>α</sup>- stearamide lysine (4g)



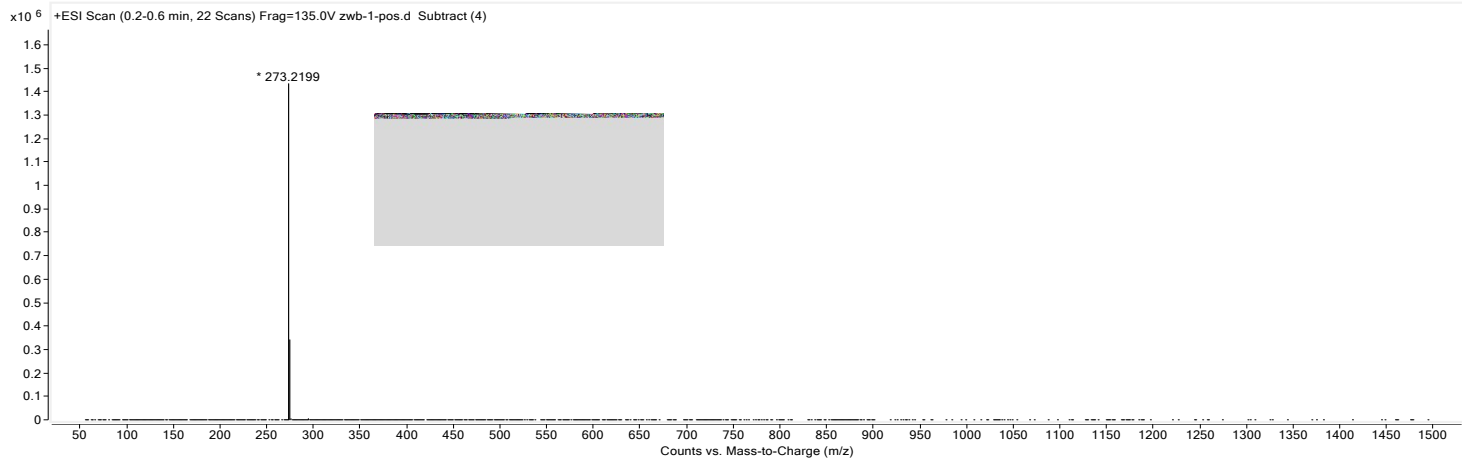


## 2. Copies of MS Spectra

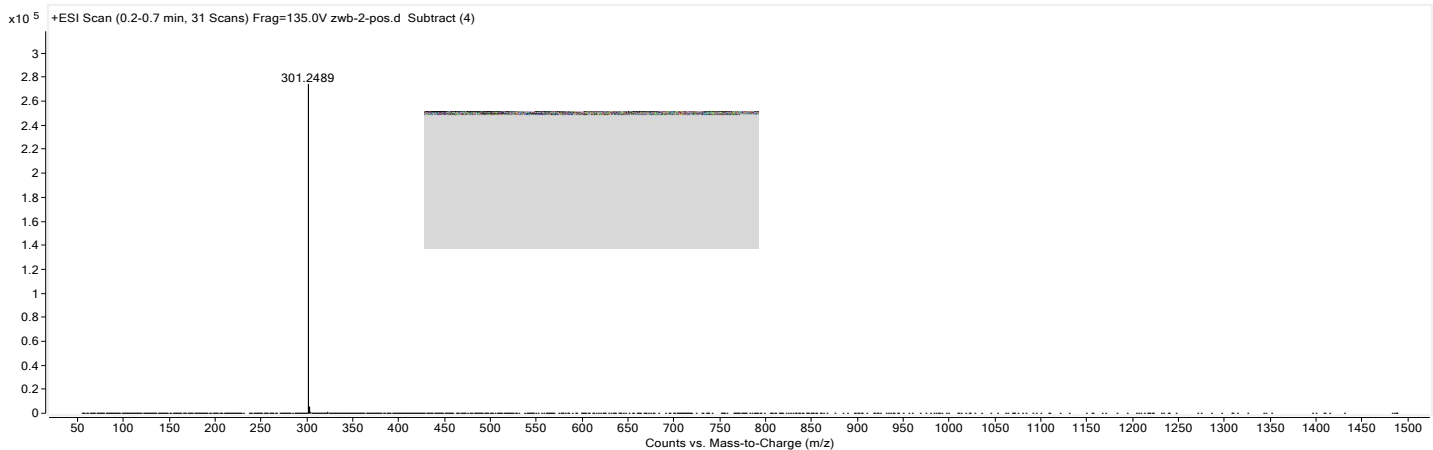
### sodium N<sup>α</sup>- hexanamide lysine (4a)



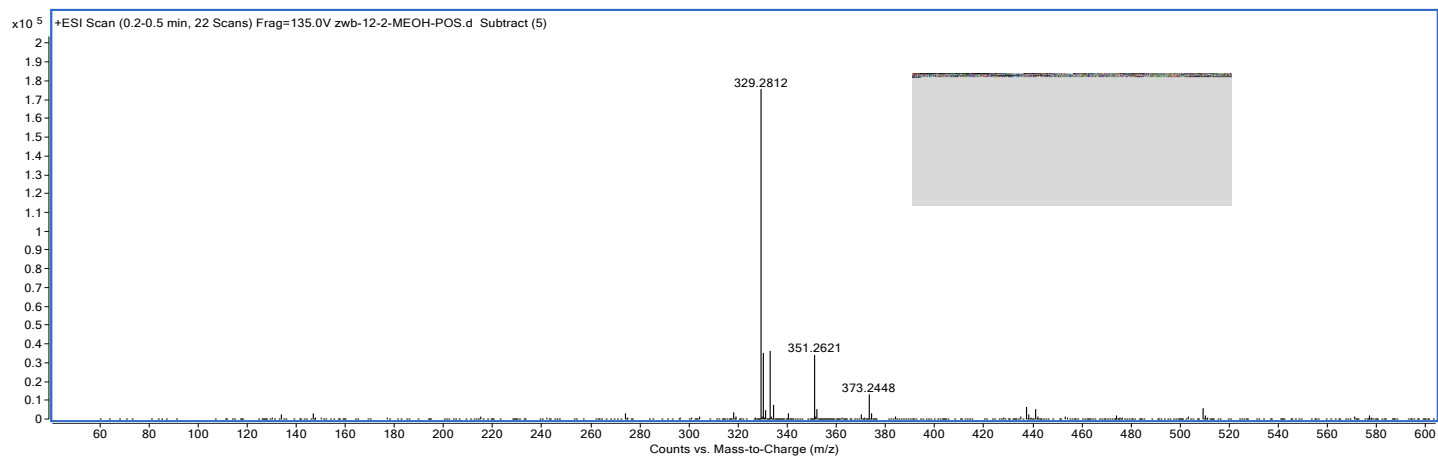
### sodium N<sup>α</sup>- octanamide lysine (4b)



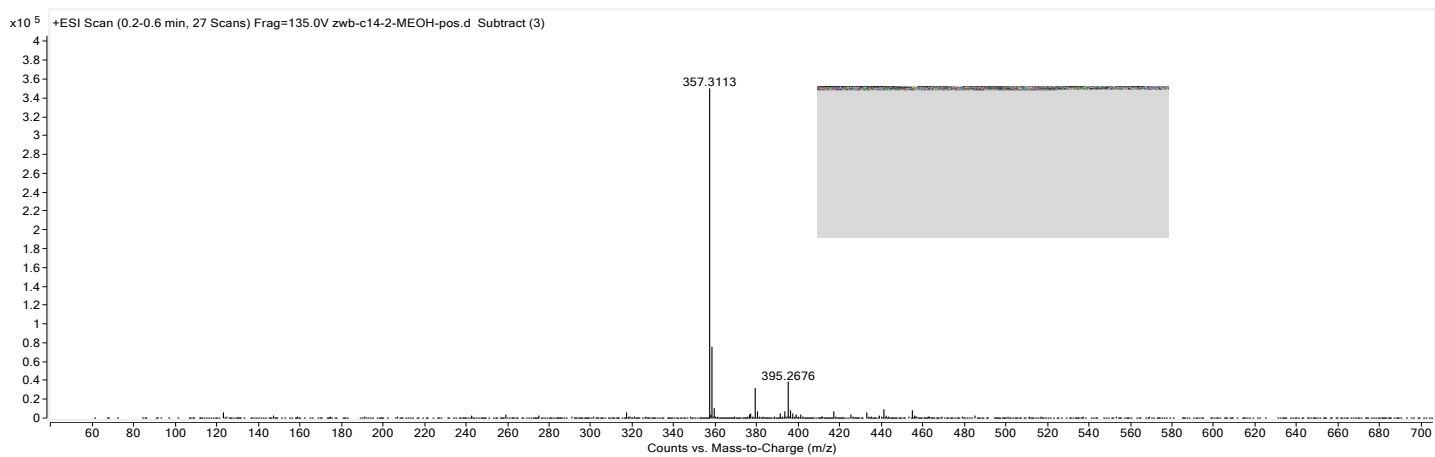
### sodium N<sup>α</sup>- capramide lysine (4c)



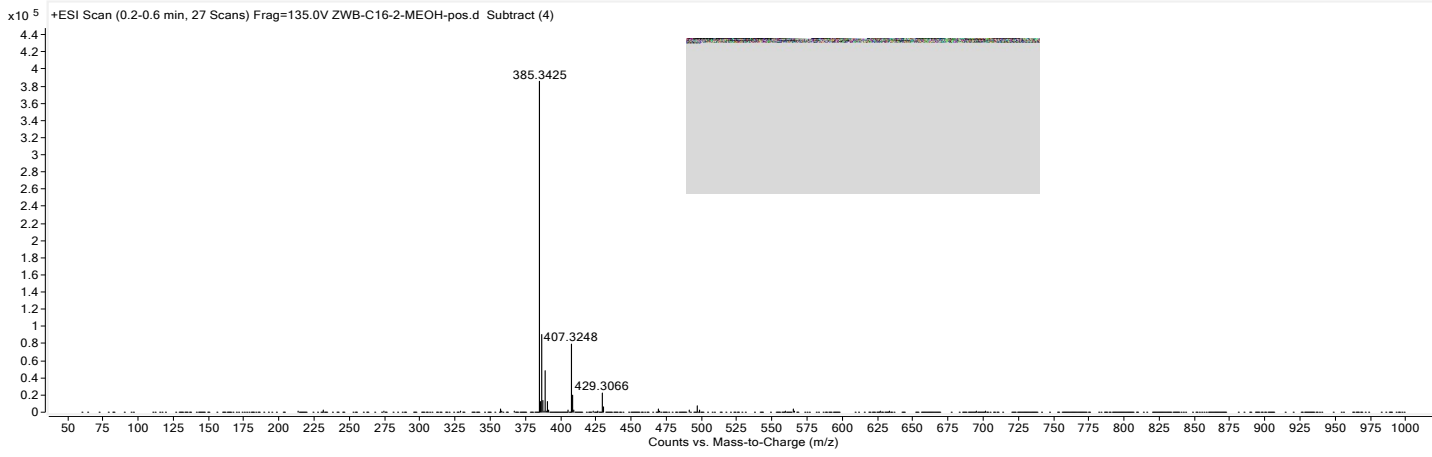
### sodium N<sup>α</sup>- lauramide lysine (4d)



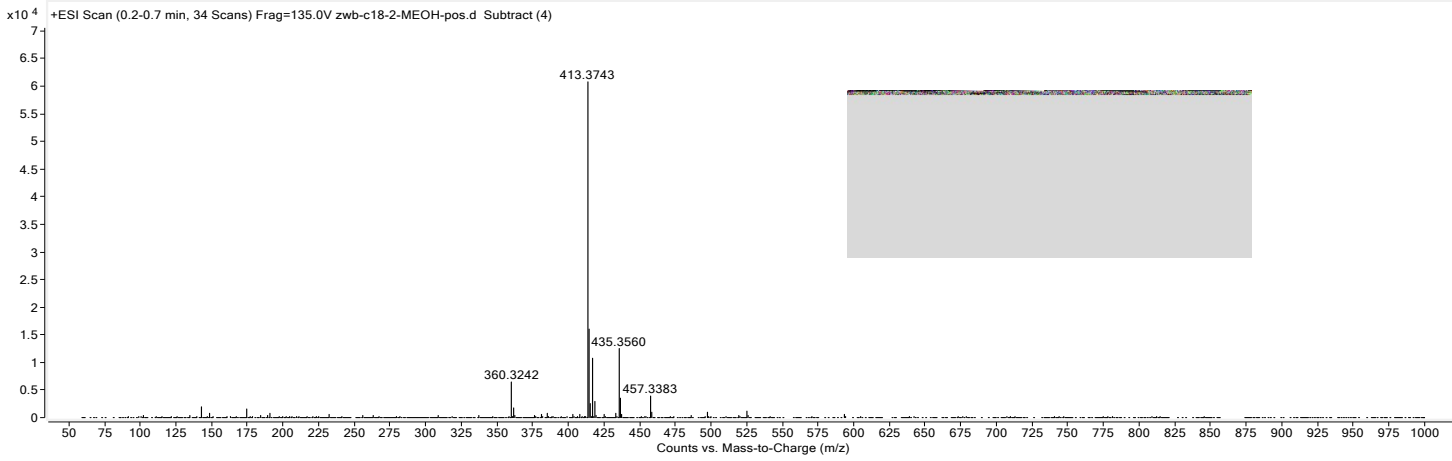
### sodium N<sup>α</sup>- myristamide lysine (4e)



**Sodium N<sup>α</sup>-palmitamide lysine (4f)**

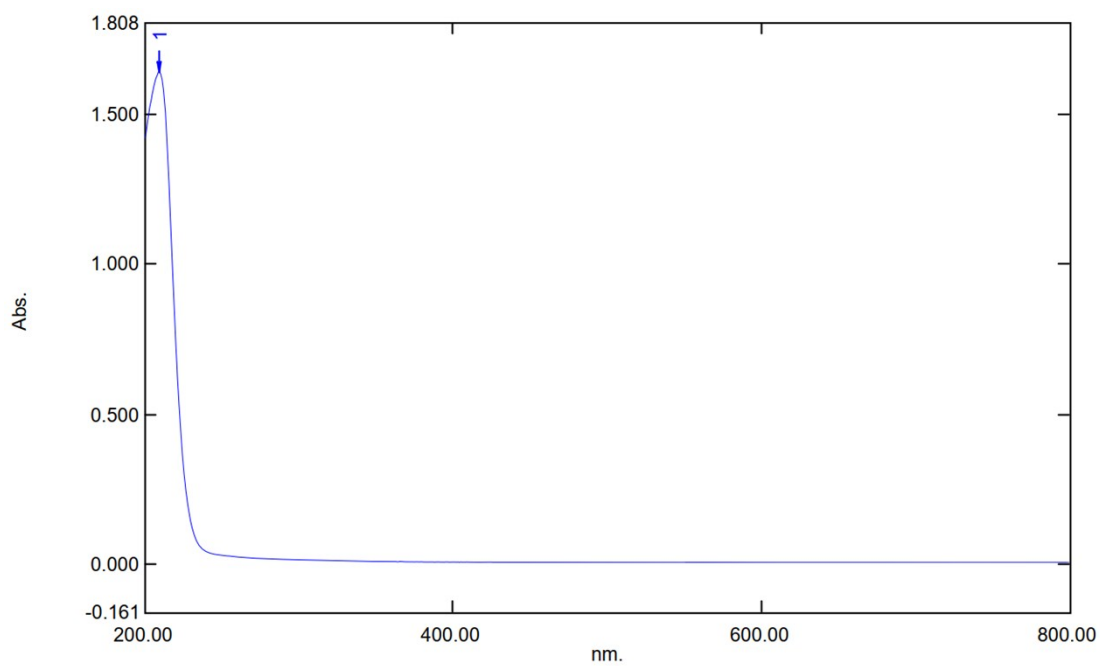
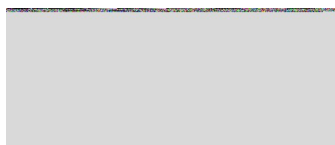


**sodium N<sup>α</sup>- stearamide lysine (4g)**



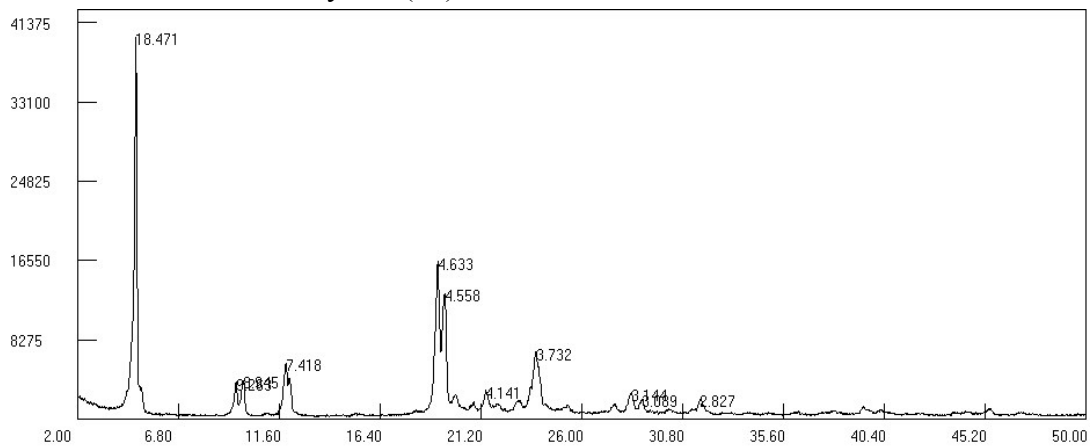
### 3. Copy of UV Absorption Spectra

sodium N<sup>α</sup>- capramide lysine (4c)

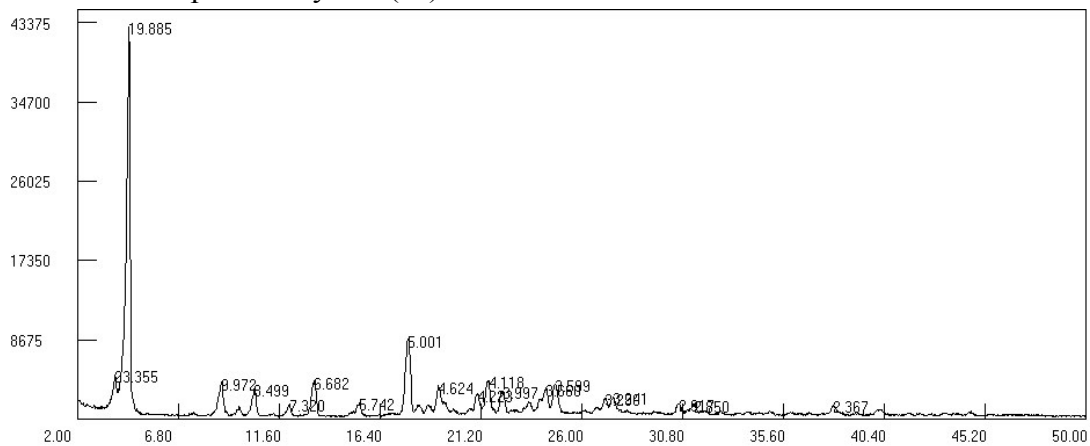


## 4. Copies of XRD

sodium N $\alpha$ -octanamide lysine (4b)



sodium N $\alpha$ -capramide lysine (4c)



sodium N $\alpha$ -lauramide lysine (4d)

