## **Supplementary Information**

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HRMS spectrum of compound **8c**. <sup>1</sup>H NMR spectrum of compound **9a**.

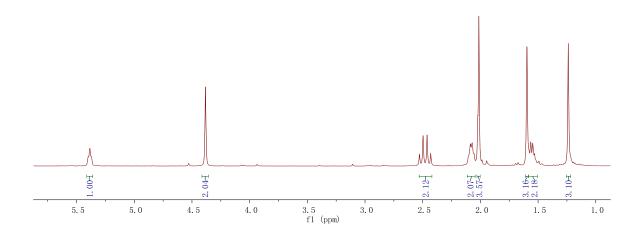
Figure S40.

Figure S41.

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Figure S79.	HRMS spectrum of compound 20.

**Figure S1.** <sup>1</sup>H NMR spectrum of compound **1**.





**Figure S2.** <sup>13</sup>C NMR spectrum of compound **1**.

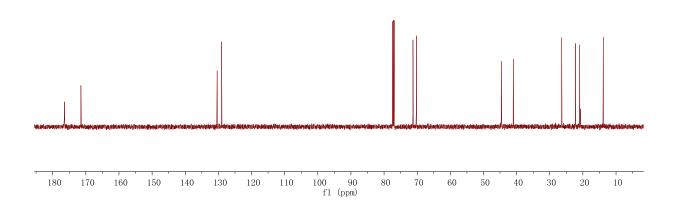


Figure S3. HRMS of compound 1.

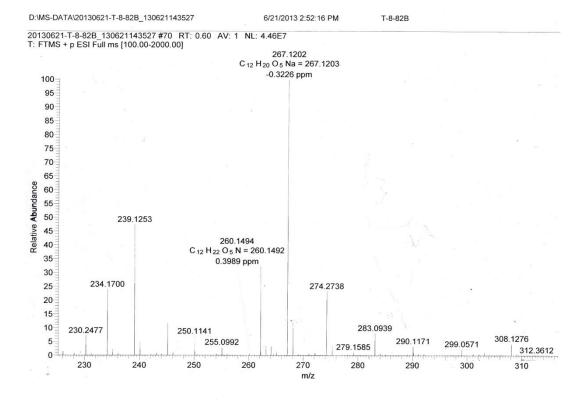
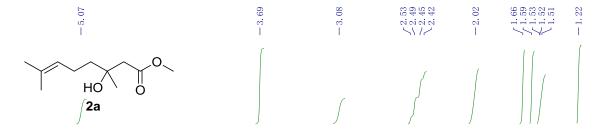


Figure S4. <sup>1</sup>H NMR spectrum of compound 2a.



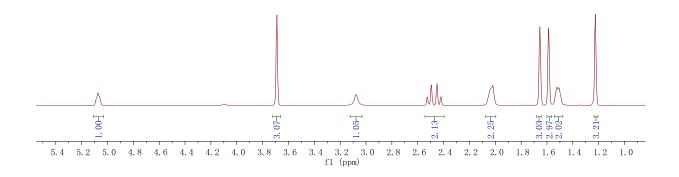


Figure S5. <sup>13</sup>C NMR spectrum of compound 2a.



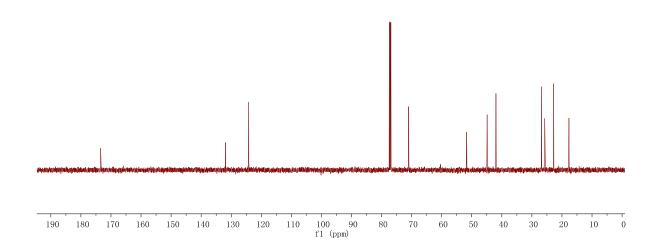
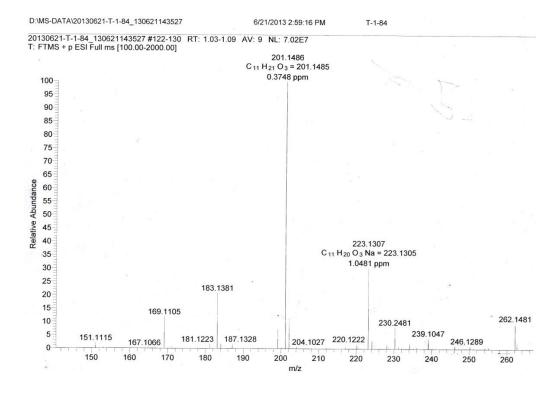
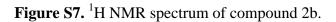
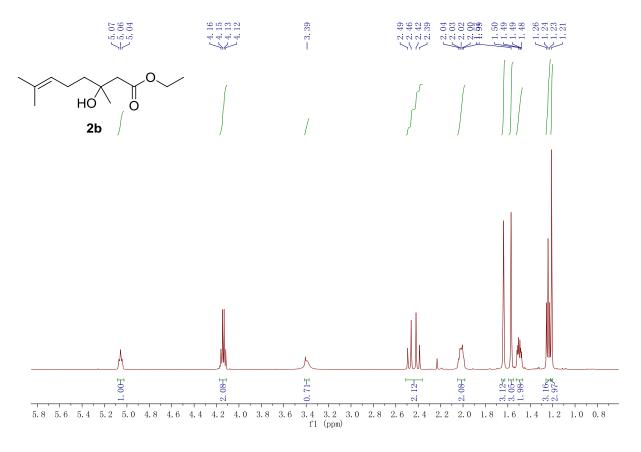


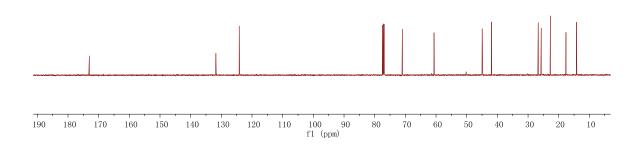
Figure S6. HRMS of compound 2a.







**Figure S8.** <sup>13</sup>C NMR spectrum of compound **2b**.





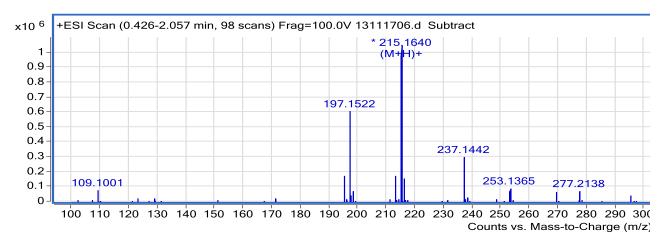
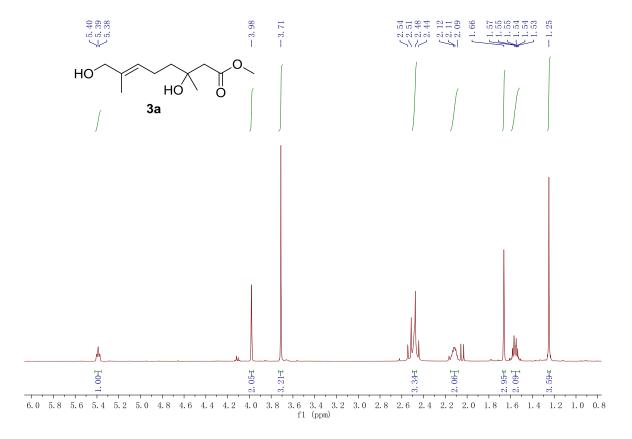


Figure S10. <sup>1</sup>H NMR spectrum of compound 3a.



**Figure S11.** <sup>13</sup>C NMR spectrum of compound 3a.

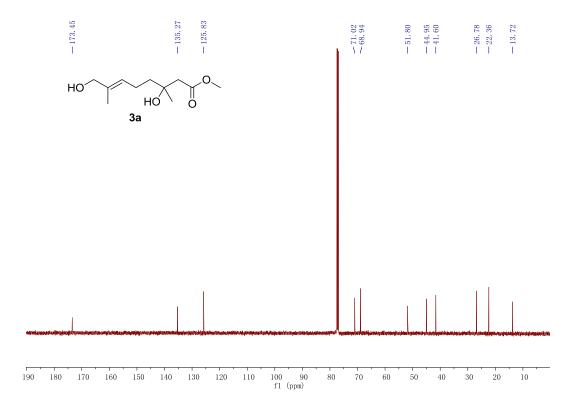


Figure S12. NOESY spectrum of compound 3a.

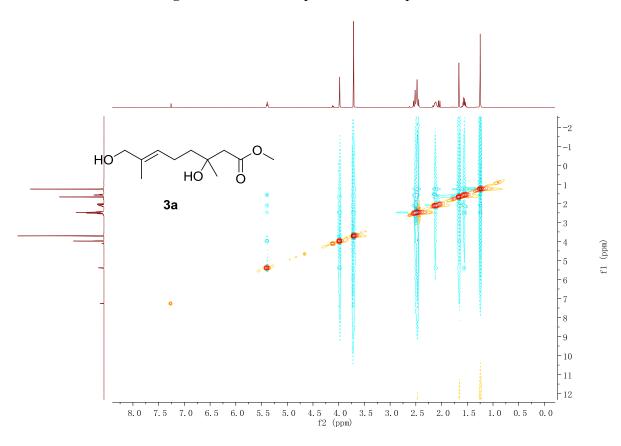


Figure S13. An enlarged area of the NOESY spectrum of compound 3a.

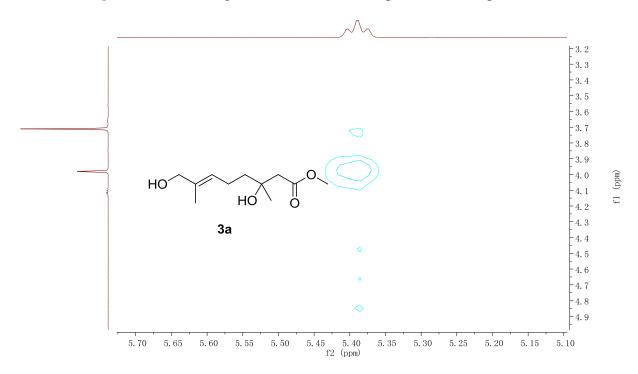
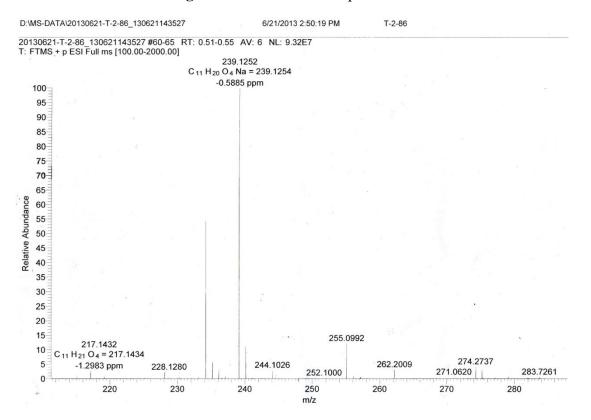
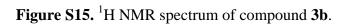
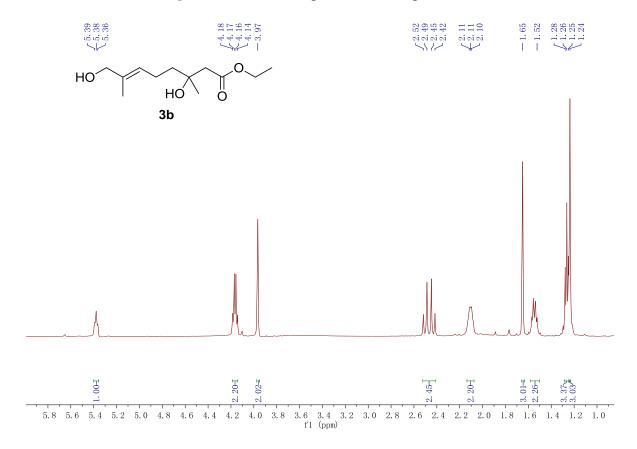


Figure S14. HRMS of compound 3a.







**Figure S16.** <sup>13</sup>C NMR spectrum of compound **3b**.

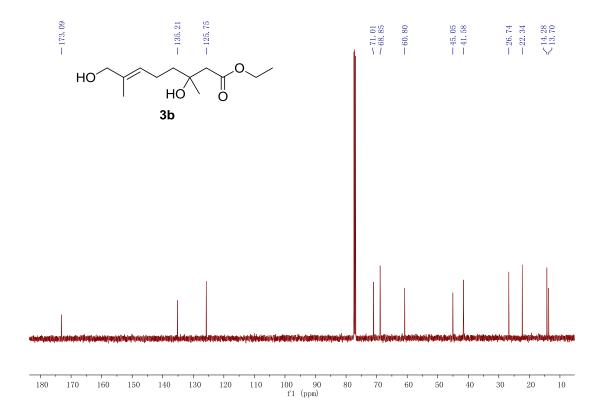
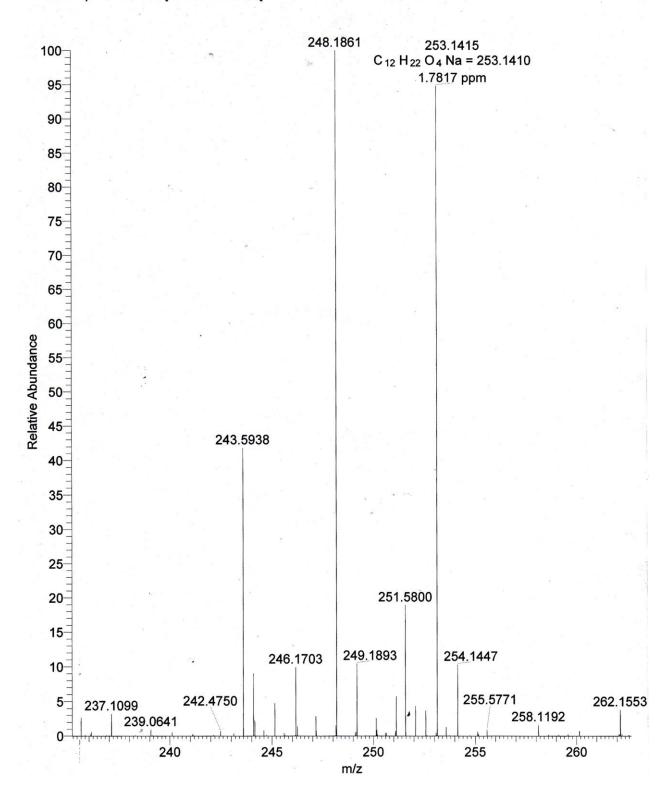
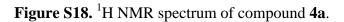


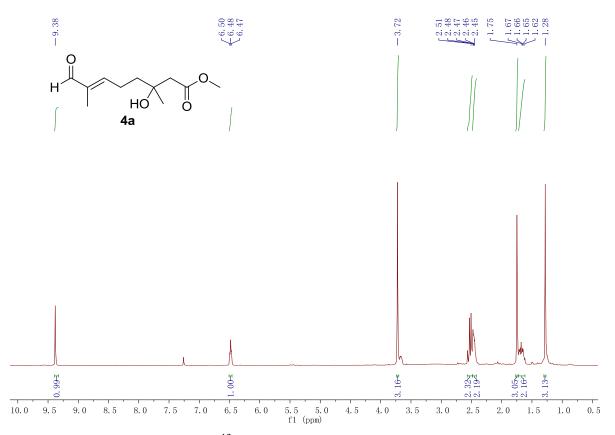
Figure S17. HRMS of compound 3b.

20131023-T14-109B\_131022095019 10/23/2013 9:43:26 AM T14-109B

20131023-T14-109B\_131022095019 #16-23 RT: 0.36-0.53 AV: 8 NL: 1.78E6 T: FTMS + p ESI Full ms [150.00-2000.00]







**Figure S19.** <sup>13</sup>C NMR spectrum of compound 4a.

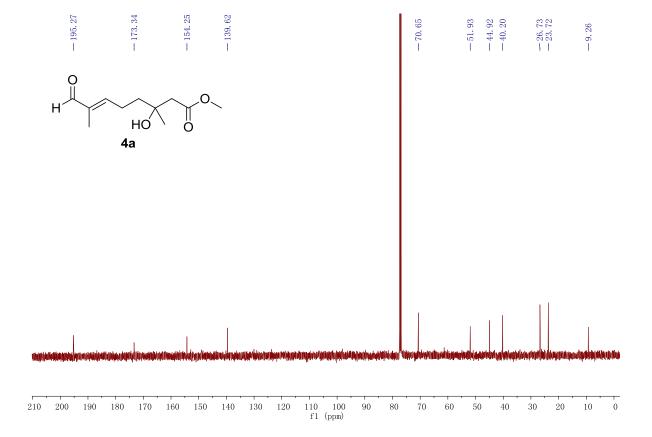


Figure S20. HRMS of compound 4a.

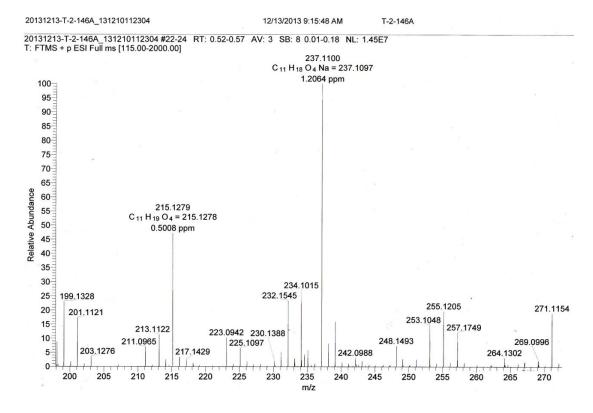


Figure S21. <sup>1</sup>H NMR spectrum of compound 4b.

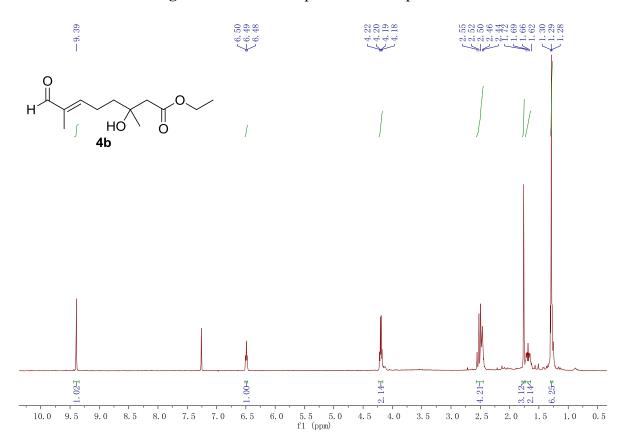


Figure S22. <sup>13</sup>C NMR spectrum of compound 4b.

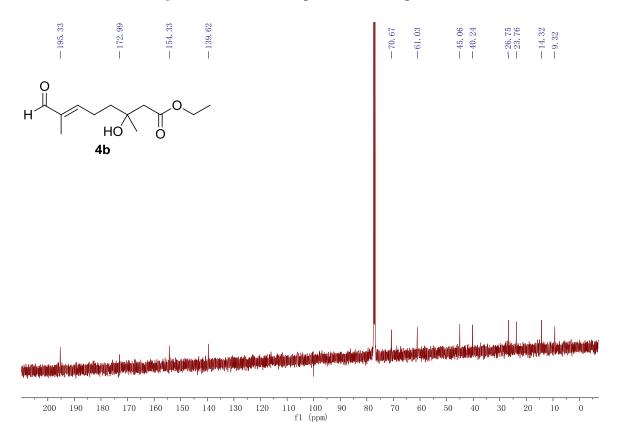
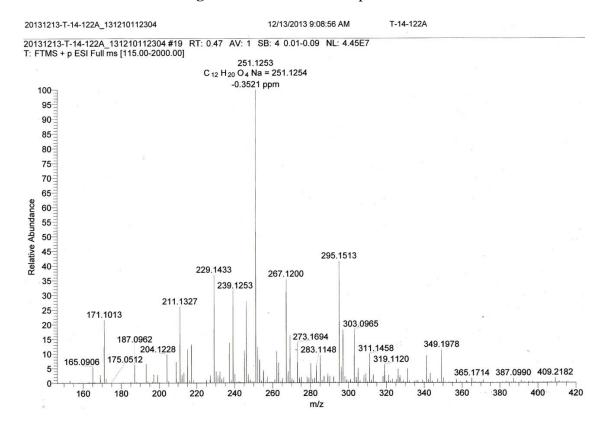
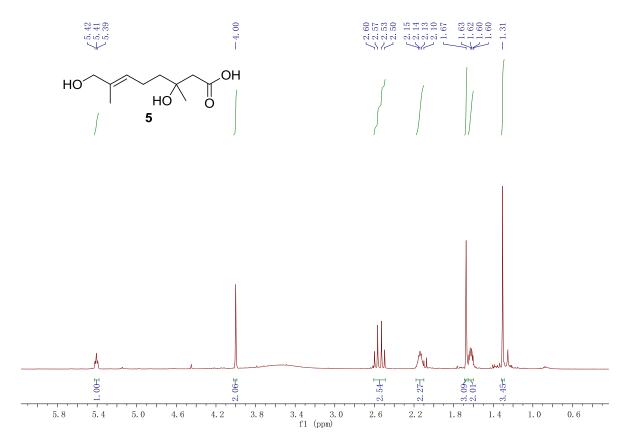


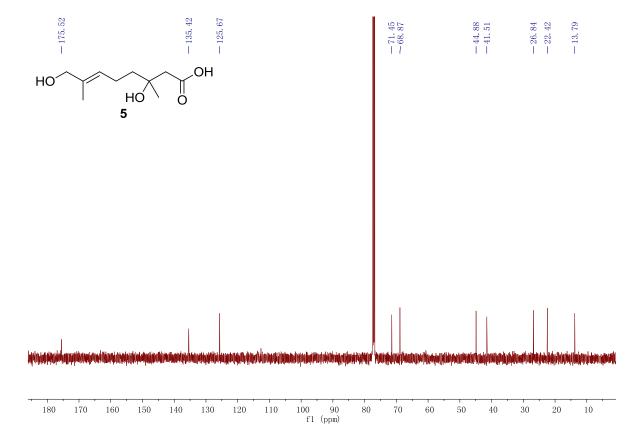
Figure S23. HRMS of compound 4b.



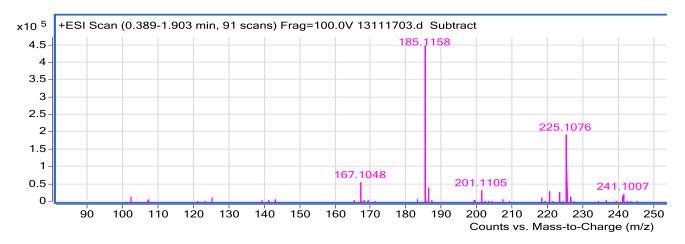
**Figure S24.** <sup>1</sup>H NMR spectrum of compound **5**.



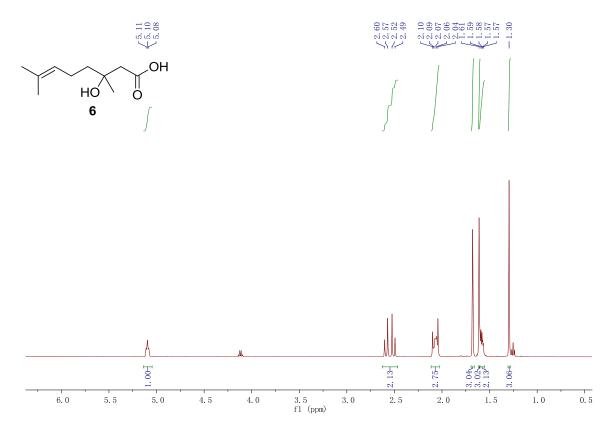
**Figure S25.** <sup>13</sup>C NMR spectrum of compound **5**.







**Figure S27.** <sup>1</sup>H NMR spectrum of compound **6**.



**Figure S28.** <sup>13</sup>C NMR spectrum of compound **6**.

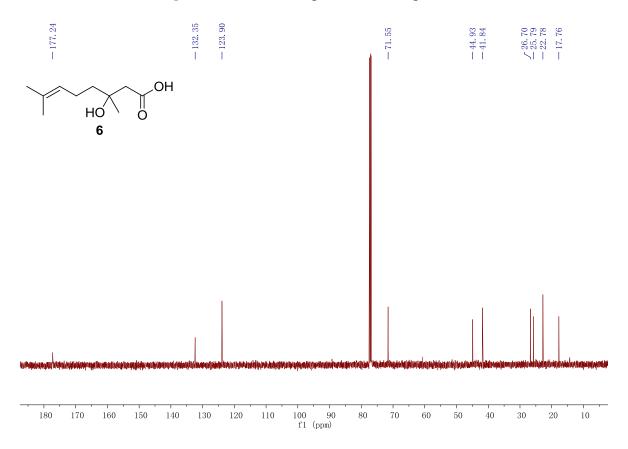
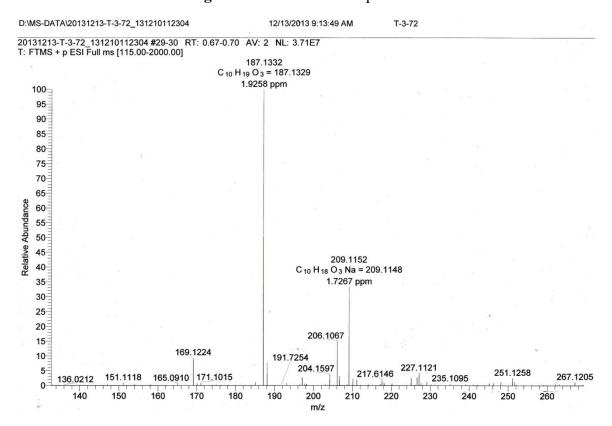
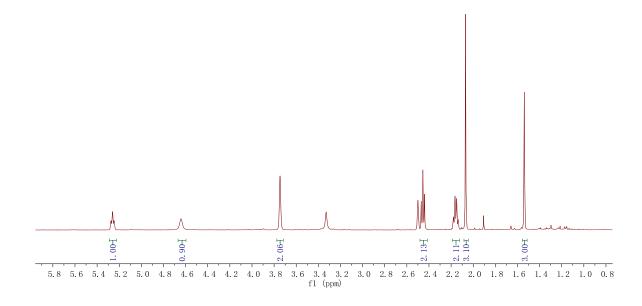


Figure S29. HRMS of compound 6.



**Figure S30.** <sup>1</sup>H NMR spectrum of compound **7**.





**Figure S31.** <sup>13</sup>C NMR spectrum of compound 7.

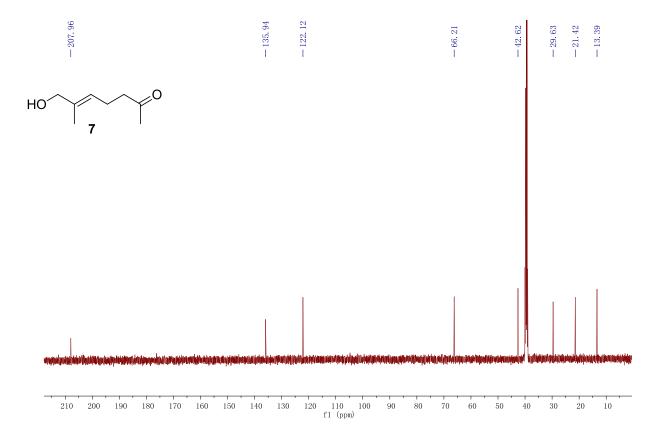
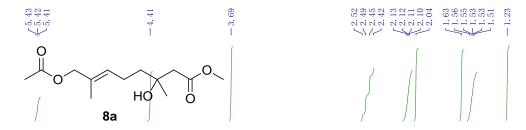


Figure S32. <sup>1</sup>H NMR spectrum of compound 8a.



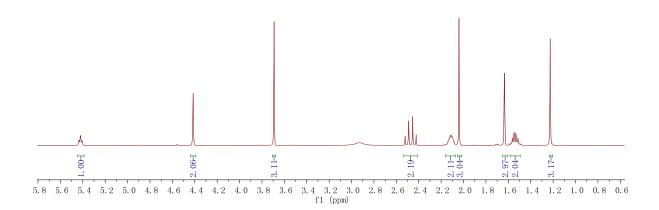


Figure S33. <sup>13</sup>C NMR spectrum of compound 8a.

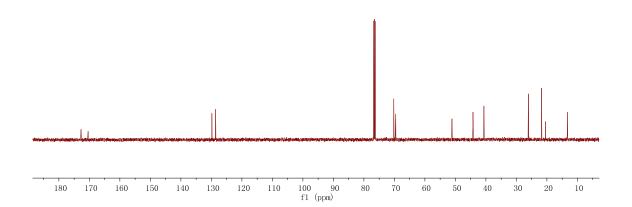


Figure S34. HRMS of compound 8a.

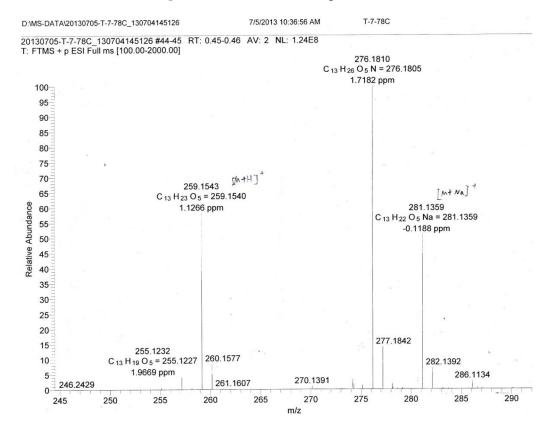
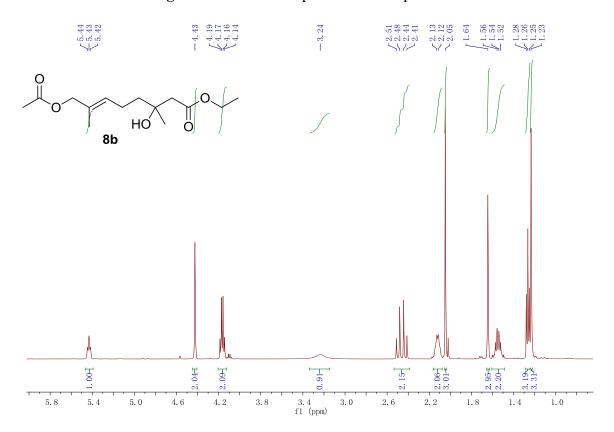


Figure S35. <sup>1</sup>H NMR spectrum of compound 8b.



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Figure S36. <sup>13</sup>C NMR spectrum of compound 8b.

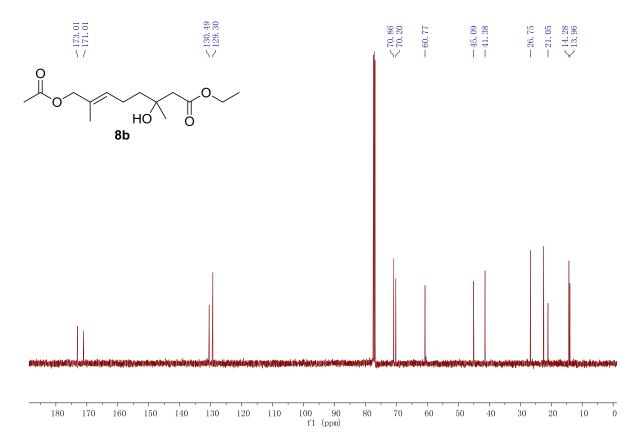
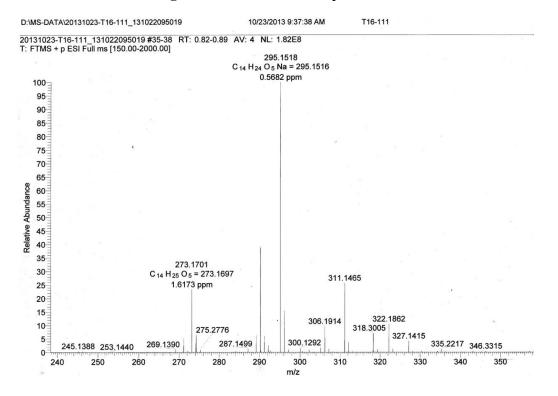
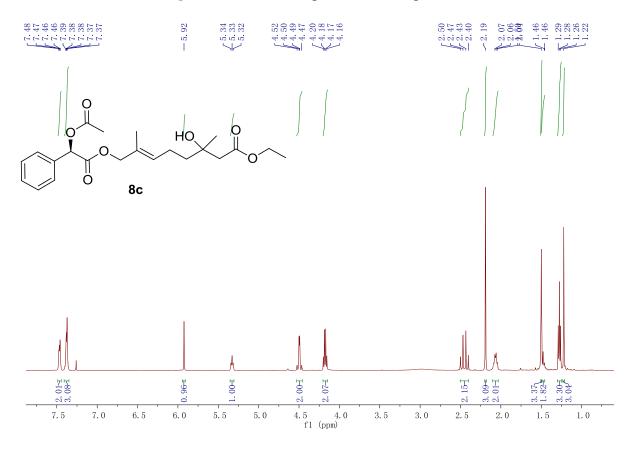


Figure S37. HRMS of compound 8b.



**Figure S38.** <sup>1</sup>H NMR spectrum of compound **8c**.



**Figure S39.** <sup>13</sup>C NMR spectrum of compound **8c**.

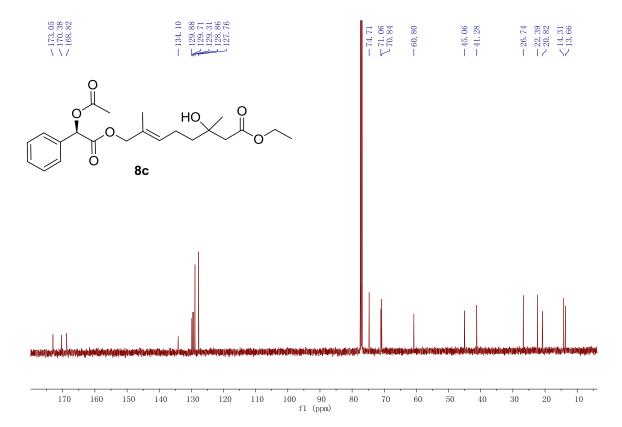


Figure S40. HRMS of compound 8c.

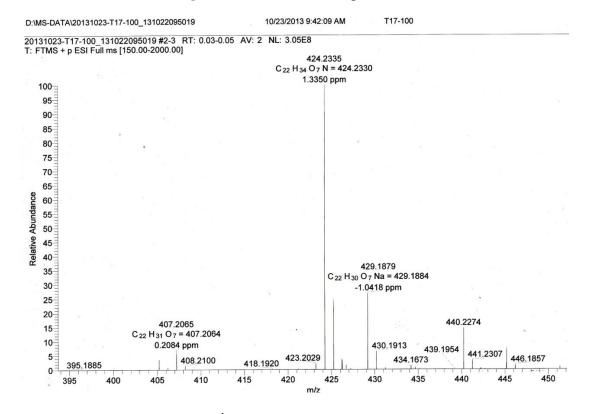


Figure S41. <sup>1</sup>H NMR spectrum of compound 9a.

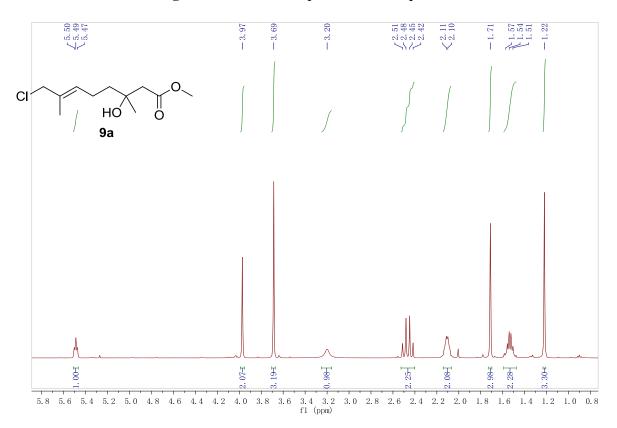


Figure S42. <sup>13</sup>C NMR spectrum of compound 9a.

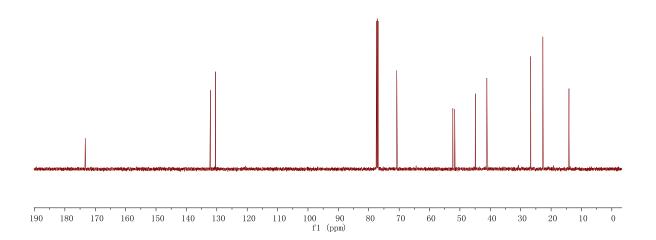
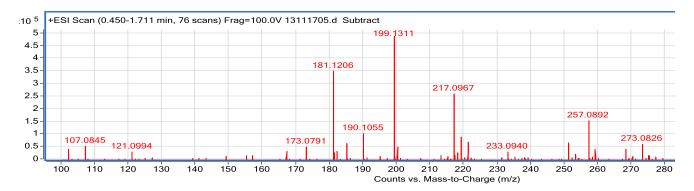
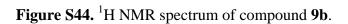
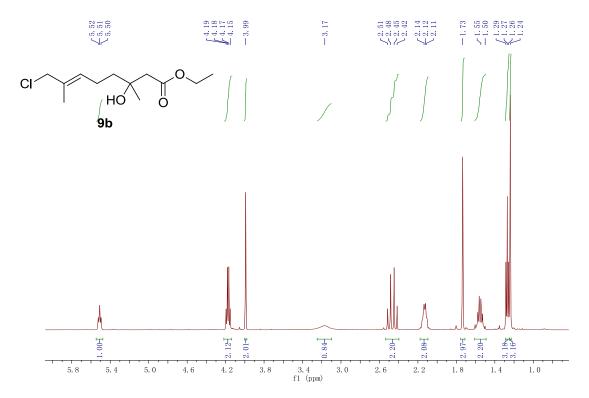


Figure S43. HRMS of compound 9a.







**Figure S45.** <sup>13</sup>C NMR spectrum of compound **9b**.

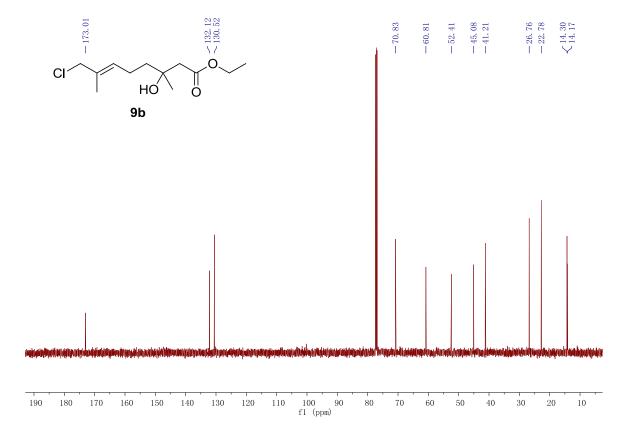


Figure S46. HRMS of compound 9b.

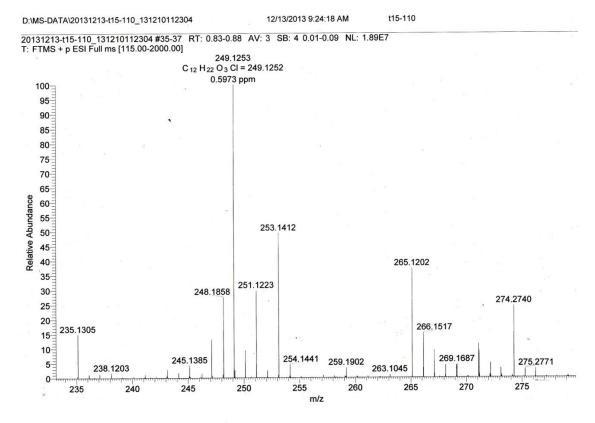
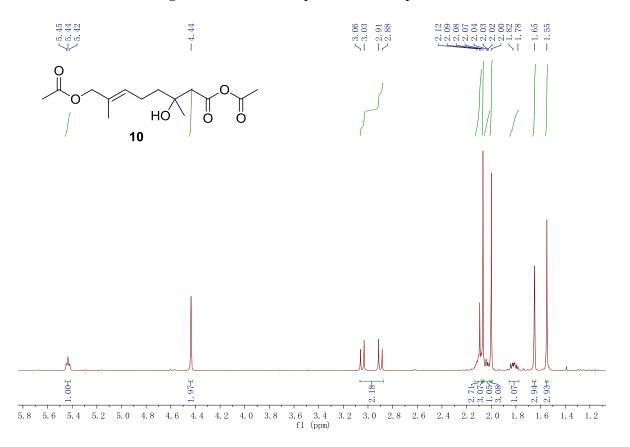


Figure S47. <sup>1</sup>H NMR spectrum of compound 10.



**Figure S48.** <sup>13</sup>C NMR spectrum of compound **10**.

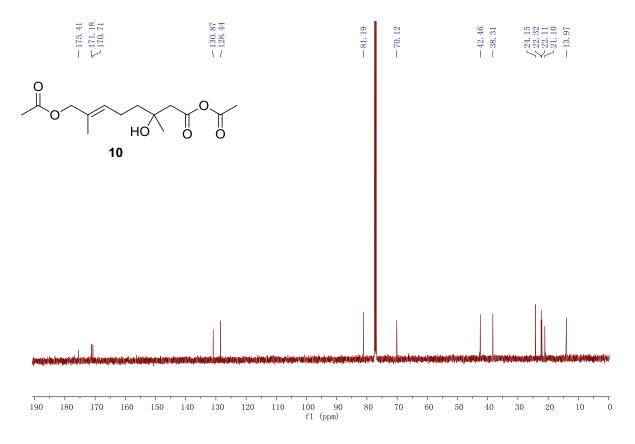
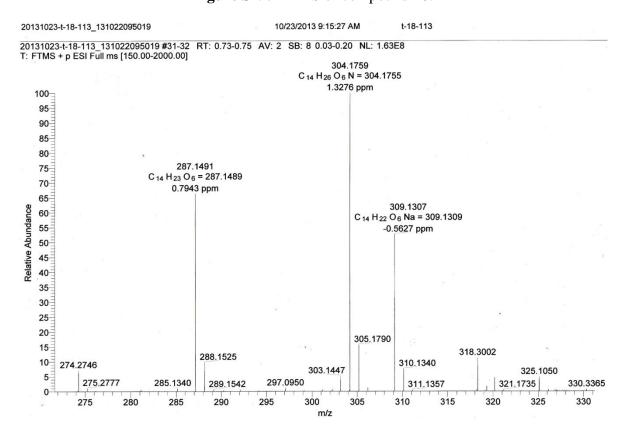
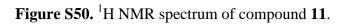


Figure S49. HRMS of compound 10.





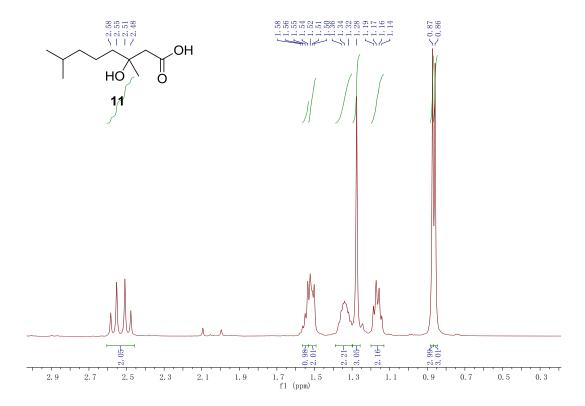
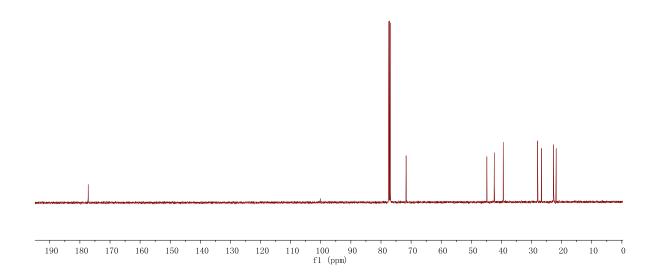
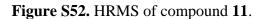


Figure S51. <sup>13</sup>C NMR spectrum of compound 11.





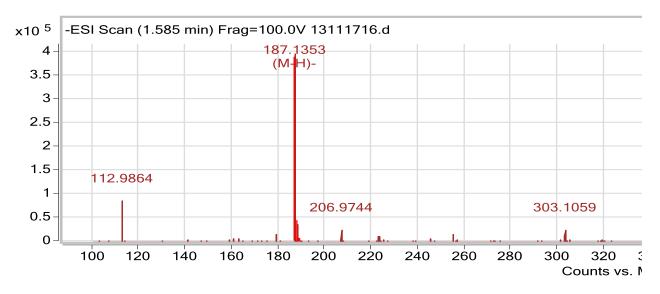


Figure S53. <sup>1</sup>H NMR spectrum of compound 12.

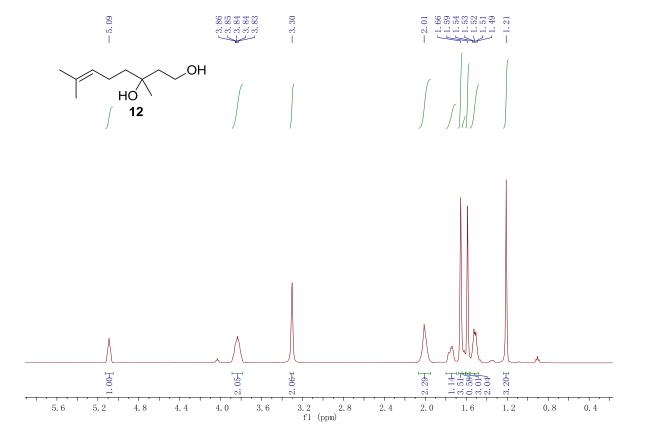


Figure S54. <sup>13</sup>C NMR spectrum of compound 12.

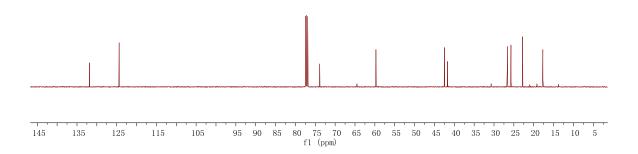
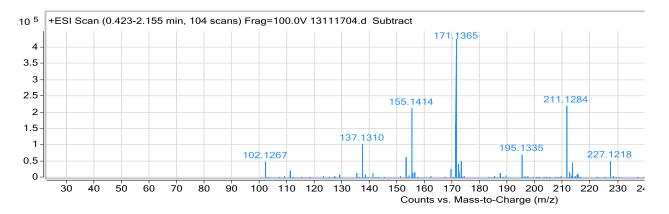
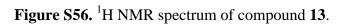


Figure S55. HRMS of compound 12.





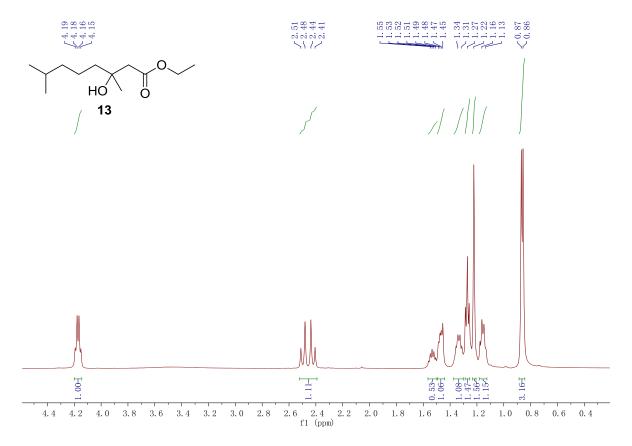


Figure S57. <sup>13</sup>C NMR spectrum of compound 13.

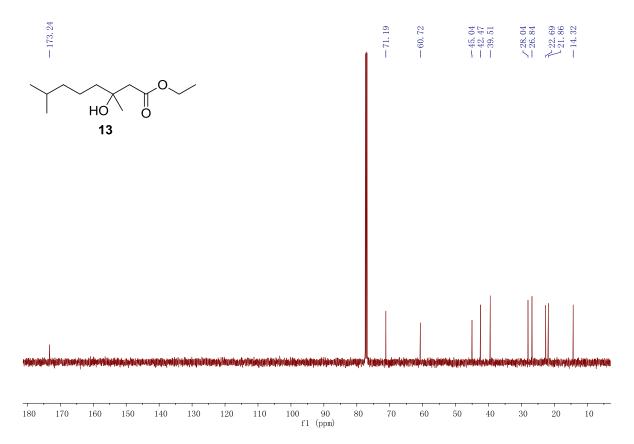


Figure S58. HRMS of compound 13.

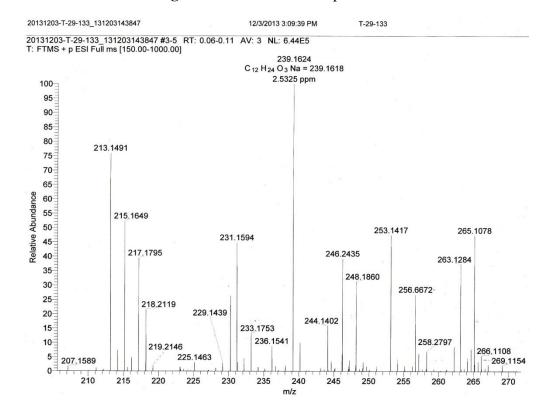


Figure S59. <sup>1</sup>H NMR spectrum of compound 14.



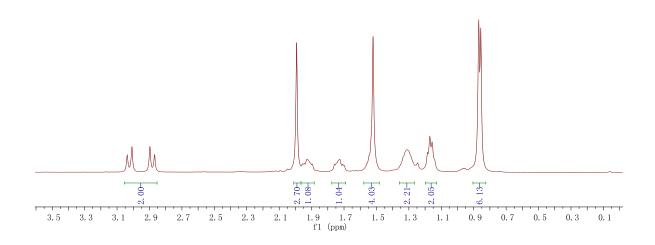


Figure S60. <sup>13</sup>C NMR spectrum of compound 14.

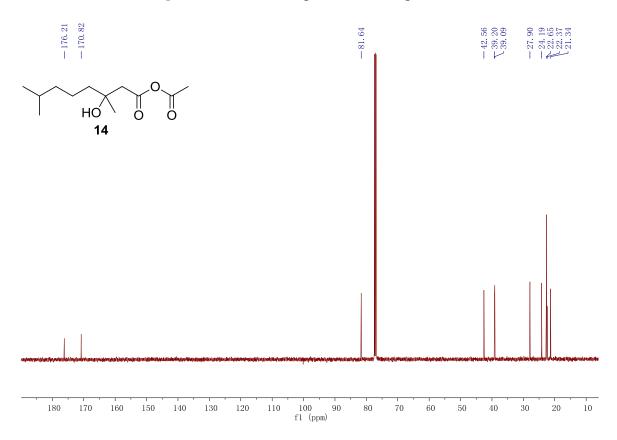
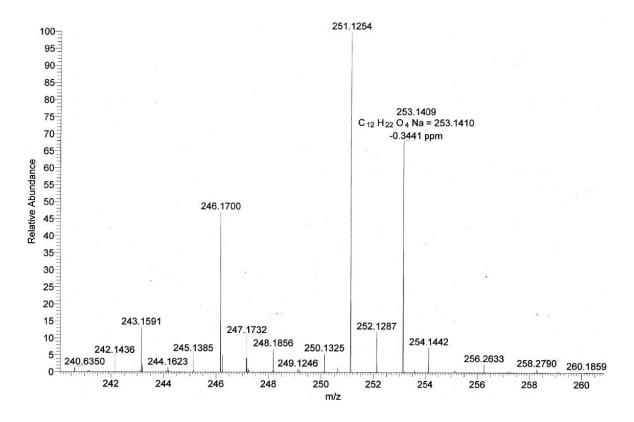
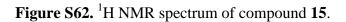
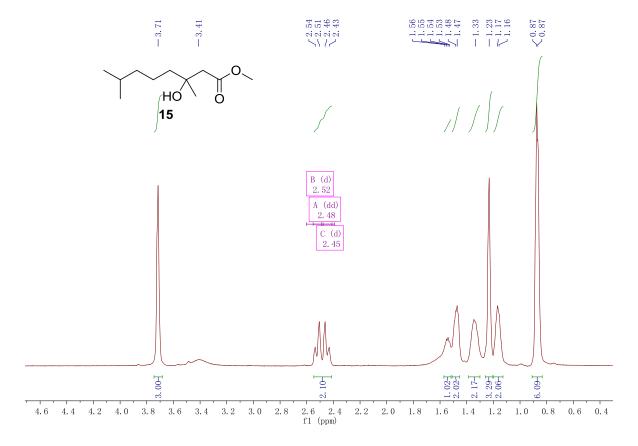


Figure S61. HRMS of compound 14.







**Figure S63.** <sup>13</sup>C NMR spectrum of compound **15**.

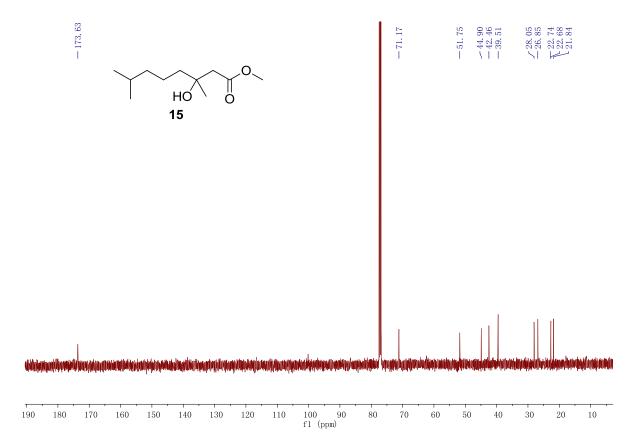
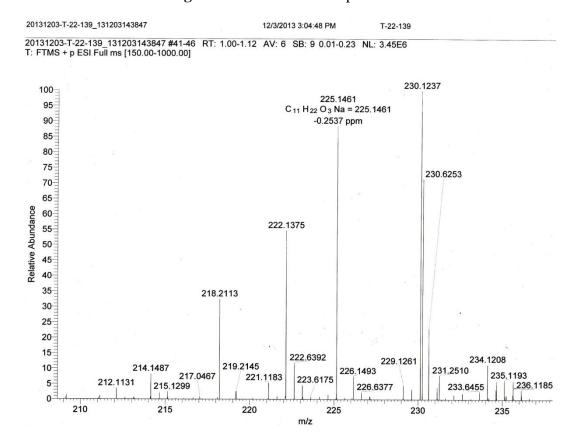
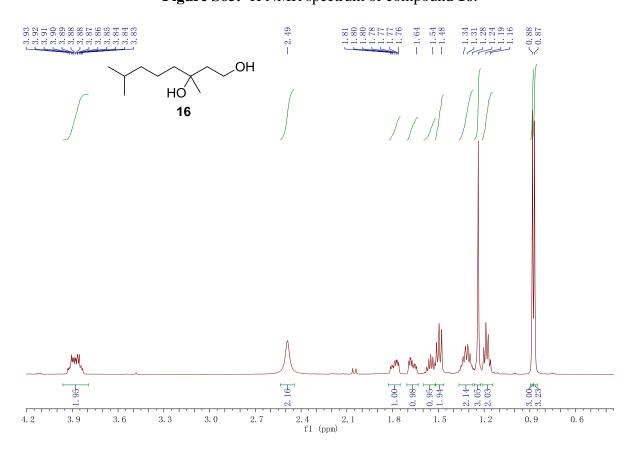


Figure S64. HRMS of compound 15.



**Figure S65.** <sup>1</sup>H NMR spectrum of compound **16**.



**Figure S66.** <sup>13</sup>C NMR spectrum of compound **16**.

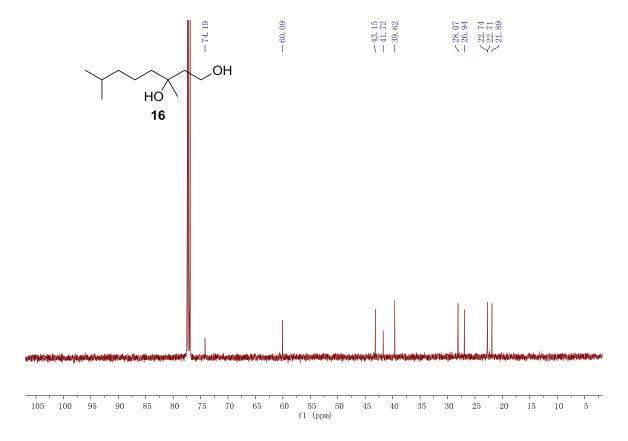
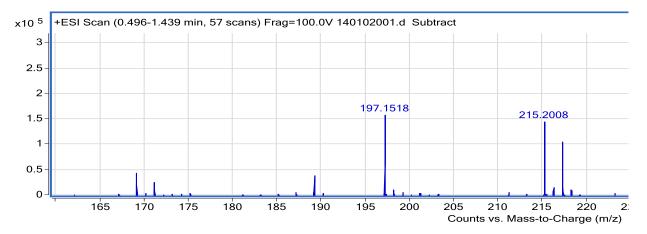
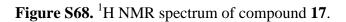
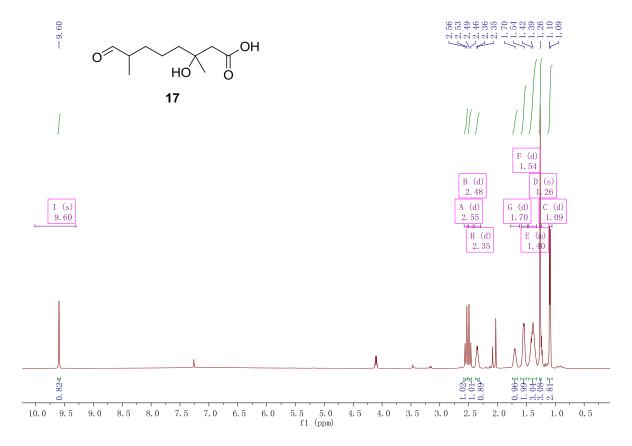


Figure S67. HRMS of compound 16.







**Figure S69.** <sup>13</sup>C NMR spectrum of compound **17**.

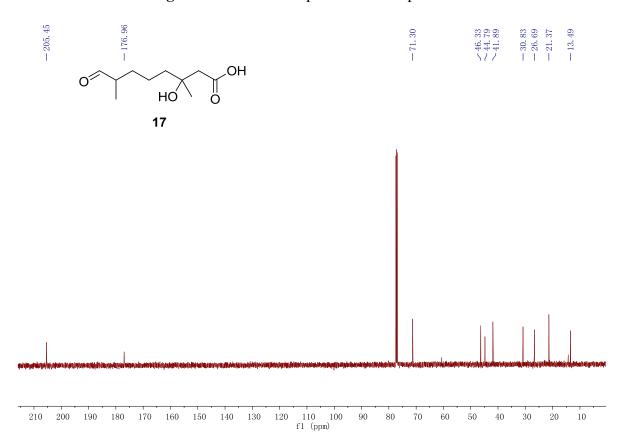
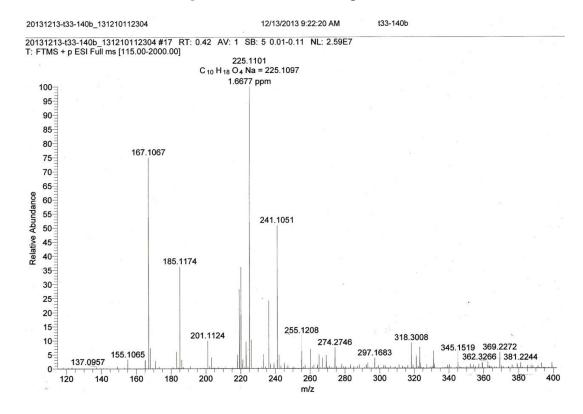
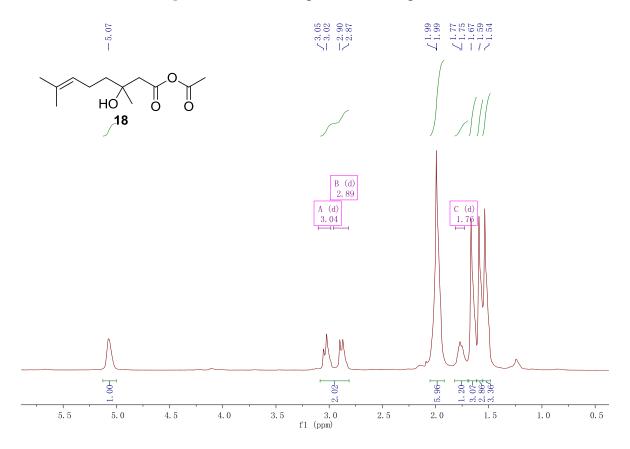
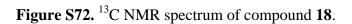


Figure S70. HRMS of compound 17.



**Figure S71.** <sup>1</sup>H NMR spectrum of compound 18.





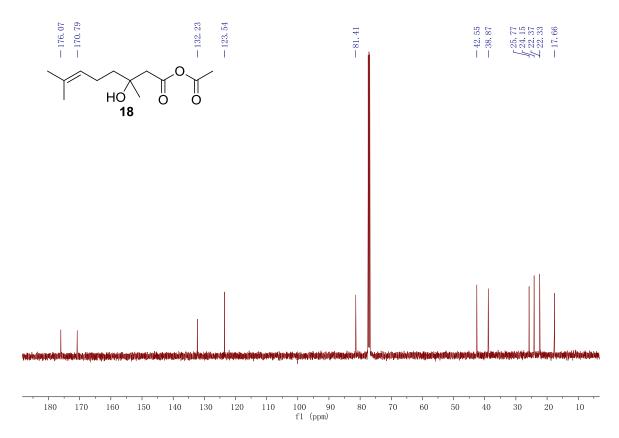
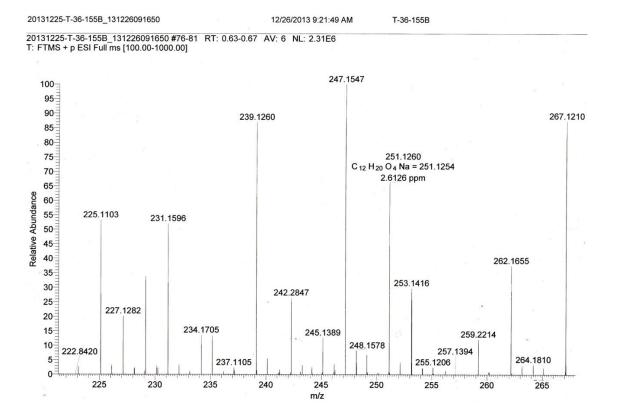


Figure S73. HRMS of compound 18.



**Figure S74.** <sup>1</sup>H NMR spectrum of compound **19**.

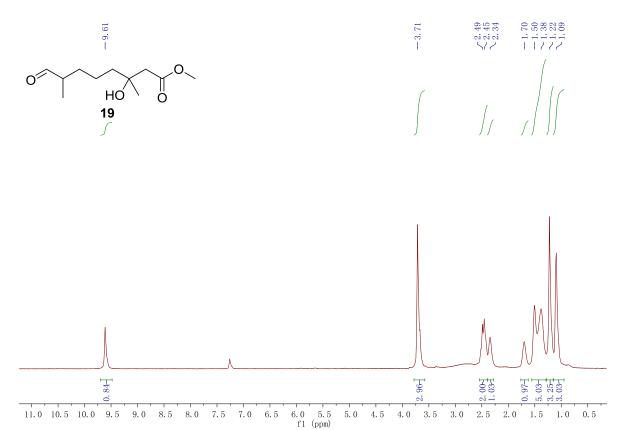
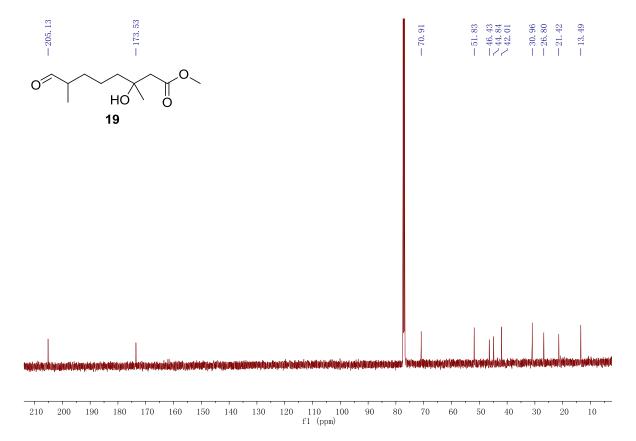


Figure S75. <sup>13</sup>C NMR spectrum of compound 19.

4.5 4.0 3.5

5.0



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Figure S76. HRMS of compound 19.

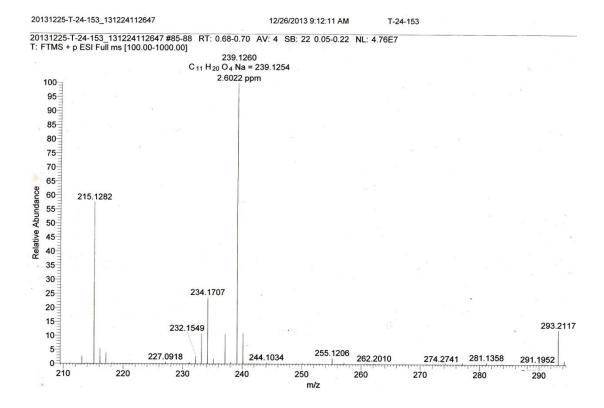


Figure S77. <sup>1</sup>H NMR spectrum of compound 20.

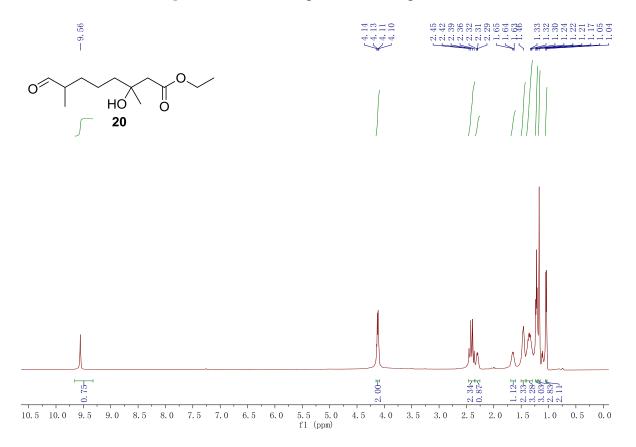


Figure S78. <sup>13</sup>C NMR spectrum of compound 20.

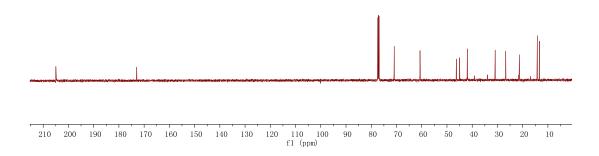
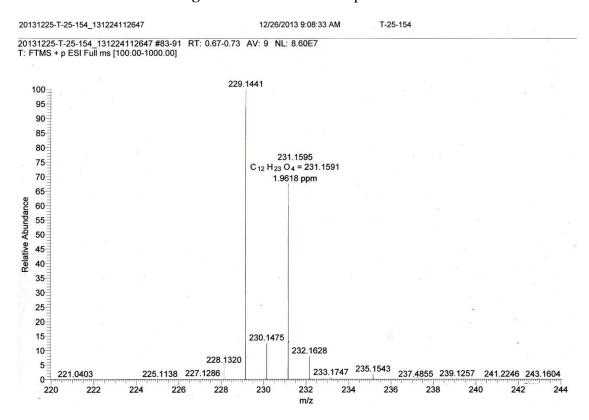


Figure S79. HRMS of compound 20.



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