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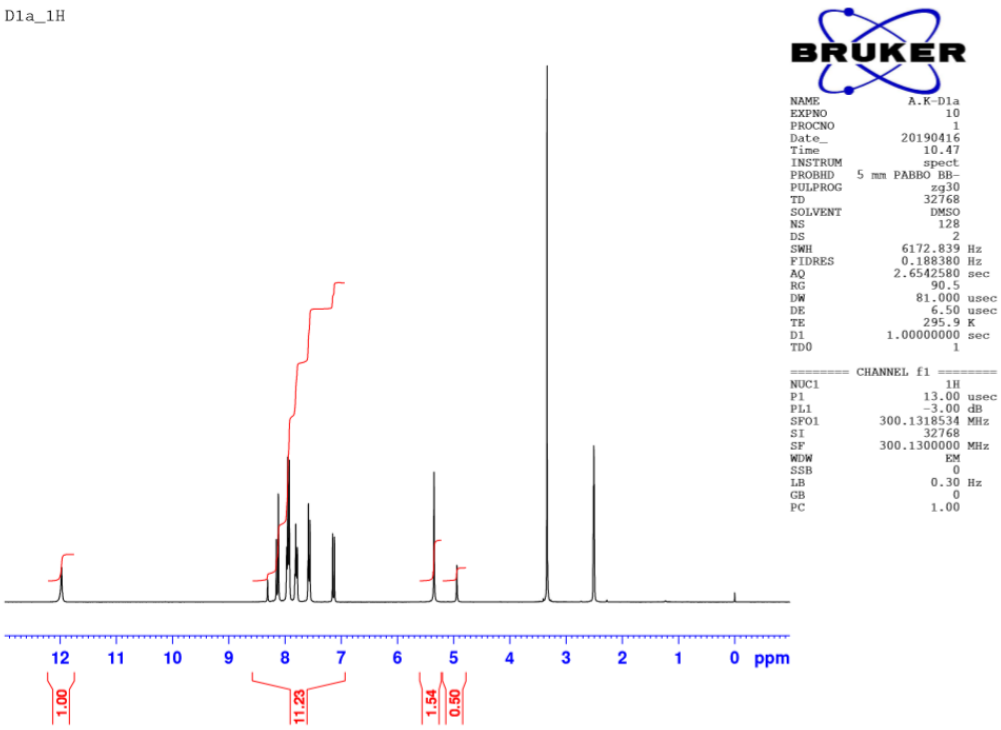
**SUPPLEMENTARY MATERIAL**

# Studies on a novel series of 3(2*H*)-pyridazinones: Synthesis, molecular modelling, antimicrobial activity

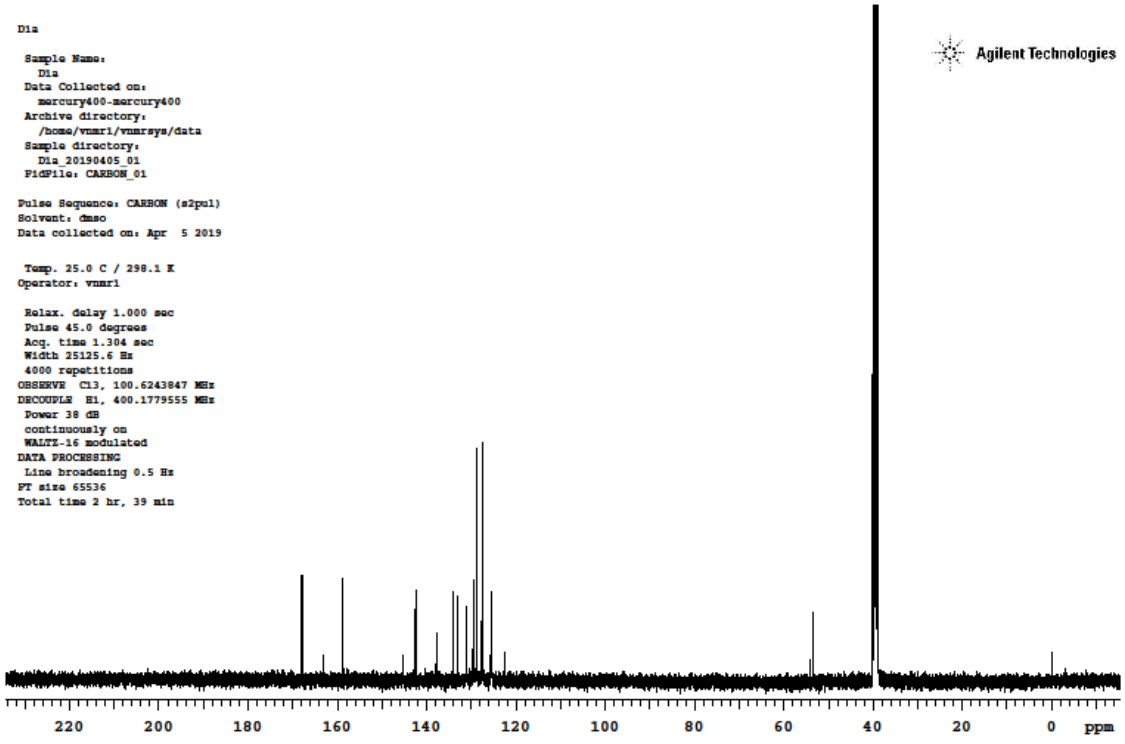
**Zeynep ÖZDEMİR [1] *, Mehmet Abdullah ALAGÖZ [1], Alp Giray AKDEMİR [2], Azime Berna ÖZÇELİK [2], Berrin ÖZÇELİK [3], Mehtap UYSAL [2]**

[1] Department of Pharmaceutical Chemistry, Faculty of Pharmacy, İnönü University, Malatya, Turkey
[2] Department of Pharmaceutical Chemistry, Faculty of Pharmacy, Gazi University, Ankara, Turkey
[3] Department of Pharmaceutical Microbiology, Faculty of Pharmacy, Gazi University, Ankara, Turkey
* Corresponding Author. E-mail: zeynep.bulut@inonu.edu.tr (Z.Ö.); Tel. +90-422-341 06 60.

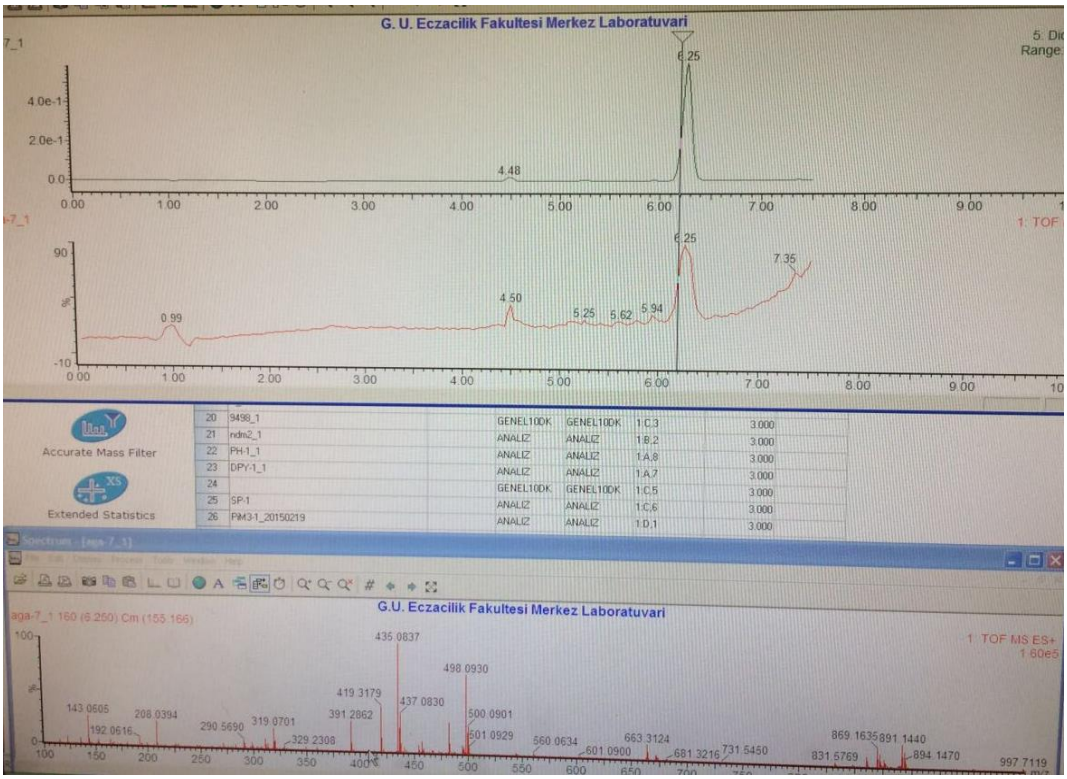
## Data 1. $^{1}$H-NMR spectrum of compound $D_{1a}$



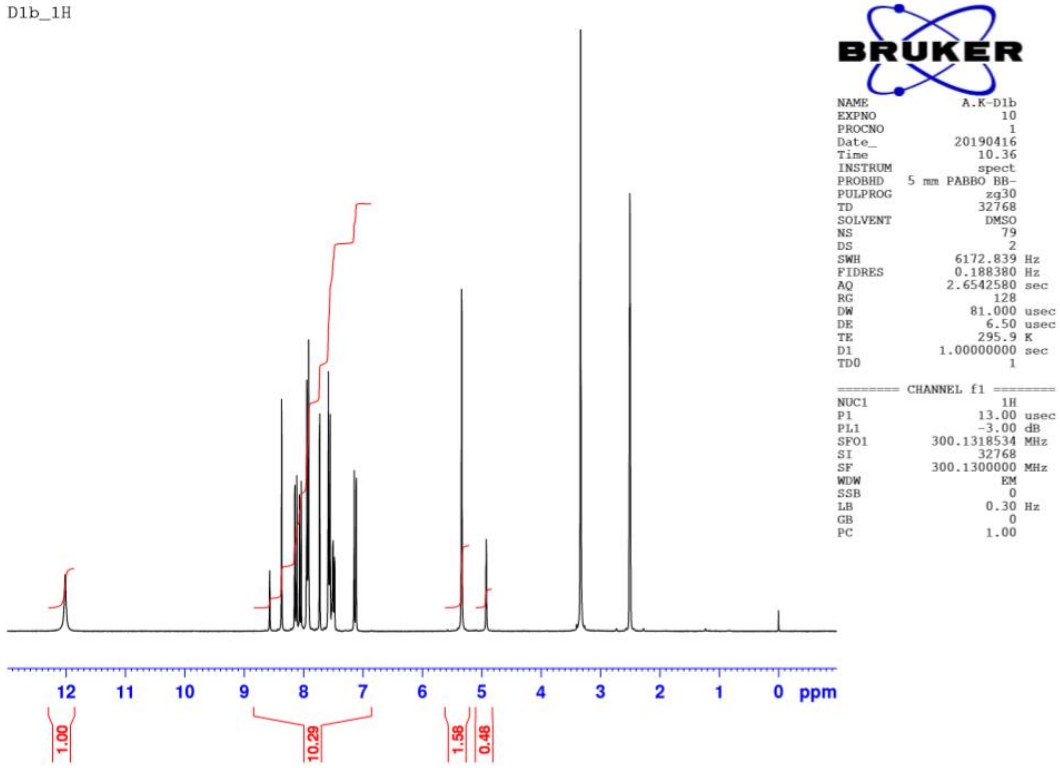

## Data 2. $^{13}$C-NMR spectrum of compound $D_{1a}$



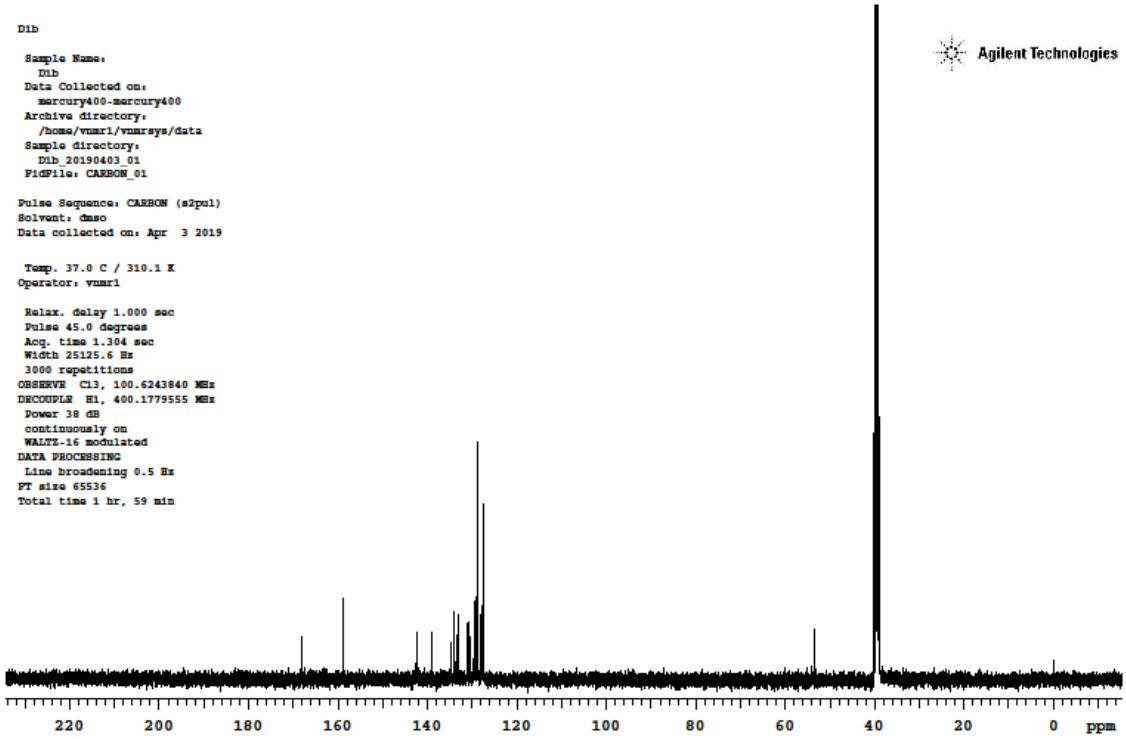
## Data 3. Mass spectrum of compound $D_{1a}$



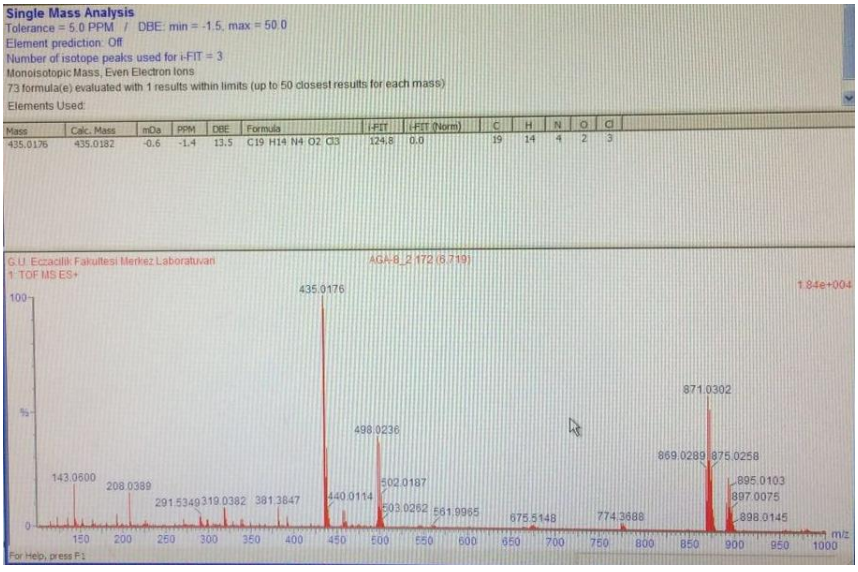

## Data 4. $^{1}$H-NMR spectrum of compound $D_{1b}$



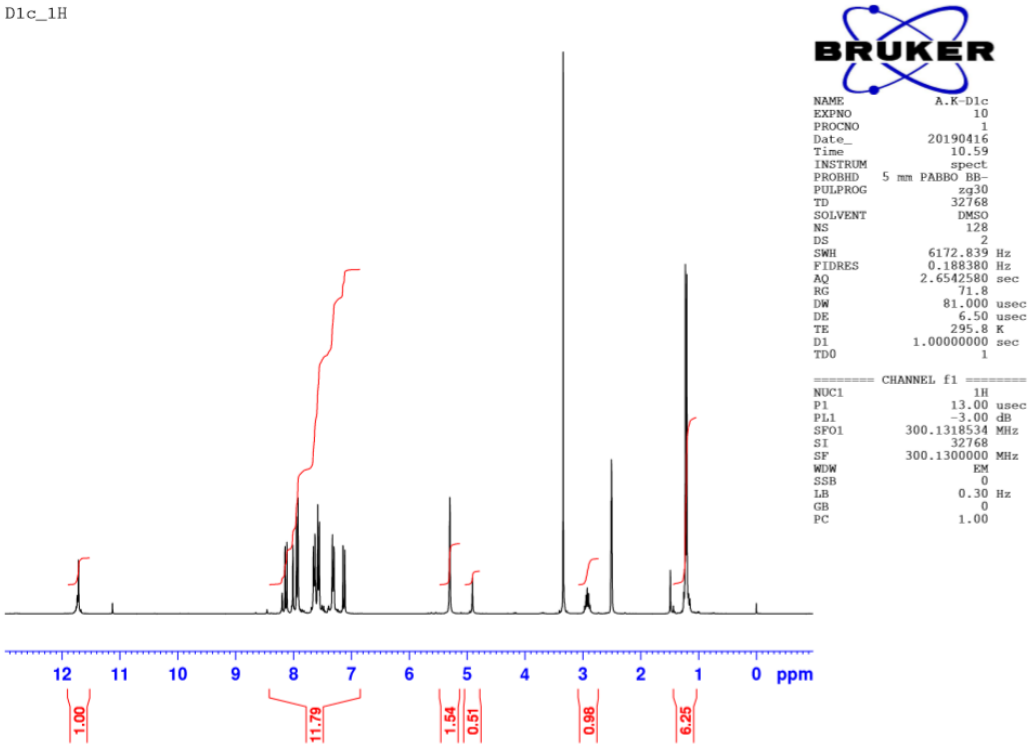
## Data 5. $^{13}$C-NMR spectrum of compound $D_{1b}$



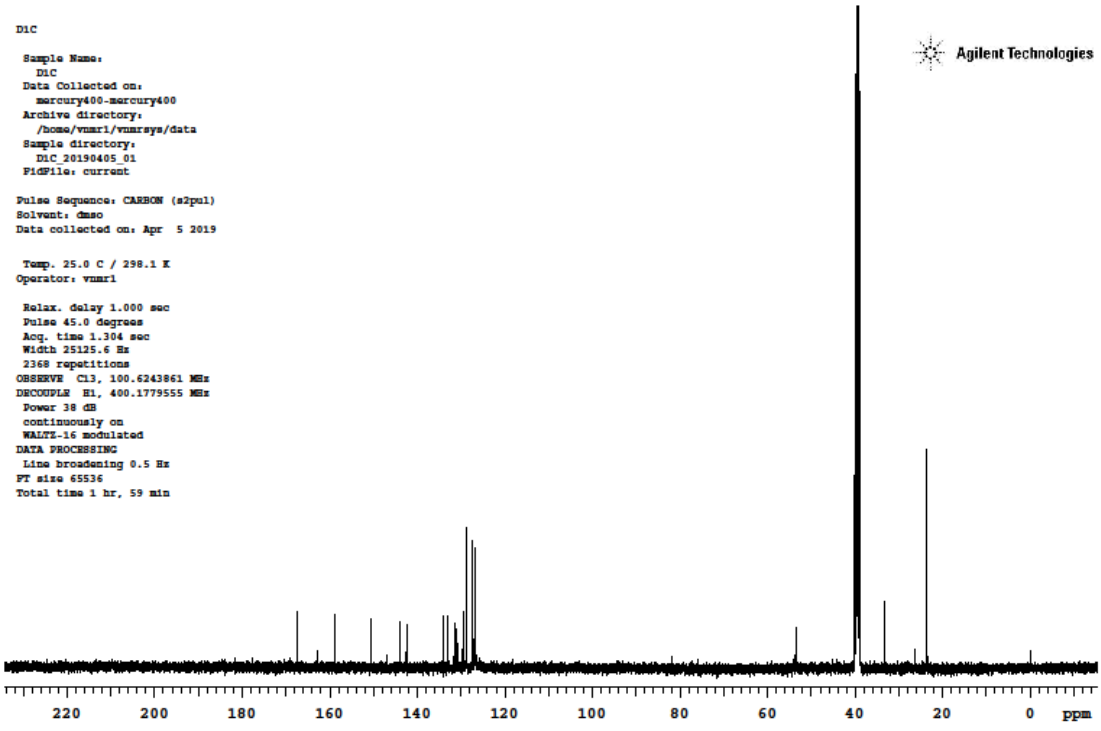

## Data 6. Mass spectrum of compound $D_{1b}$



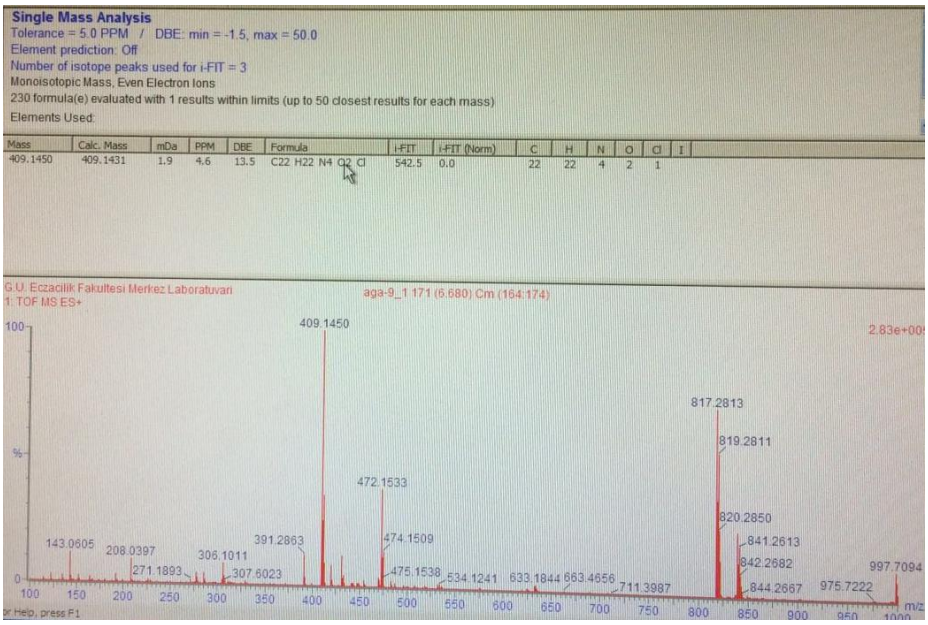
## Data 7. $^{1}$H-NMR spectrum of compound $D_{1c}$



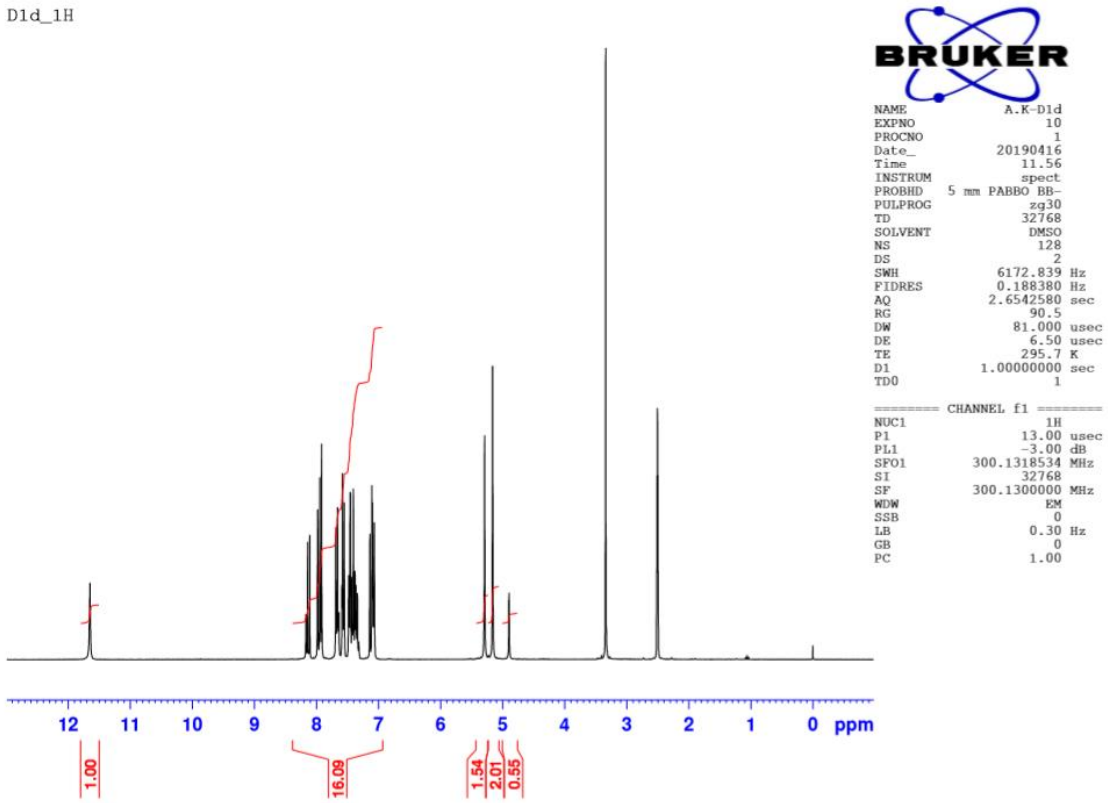

## Data 8. $^{13}$C-NMR spectrum of compound $D_{1c}$



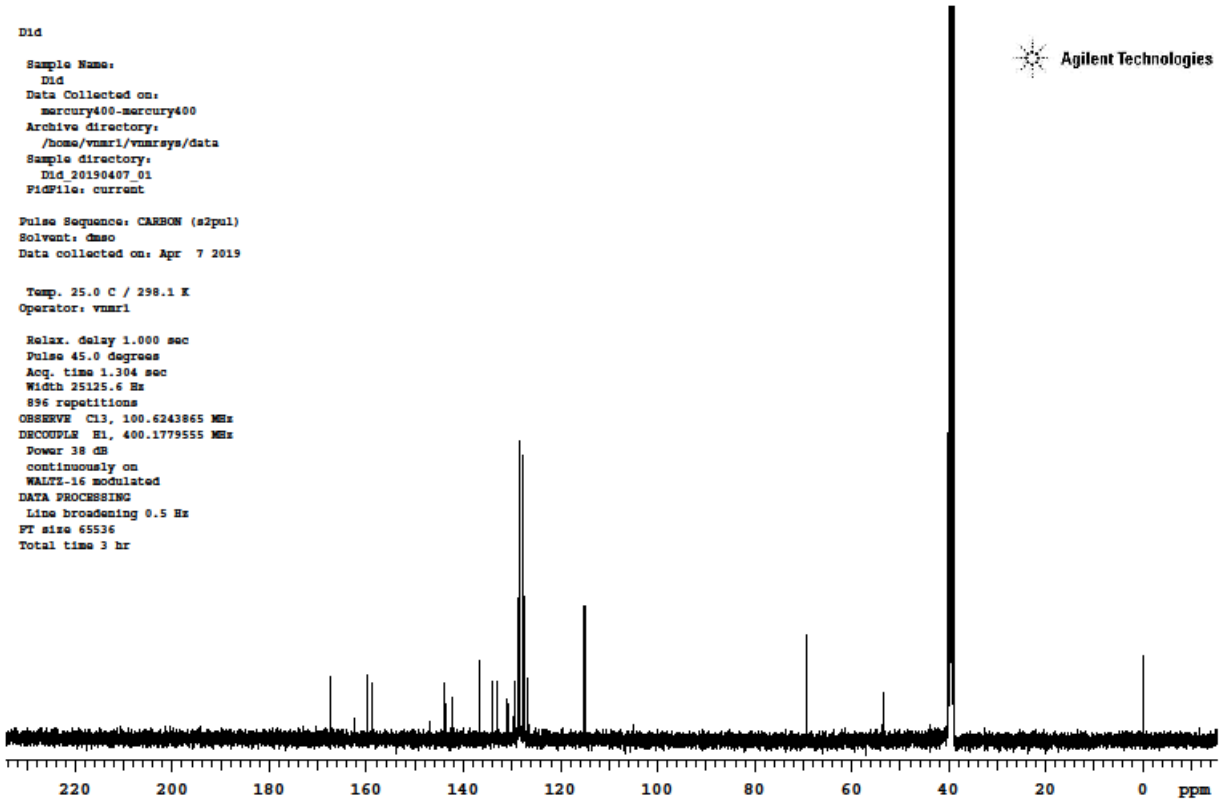
## Data 9. Mass spectrum of compound $D_{1c}$



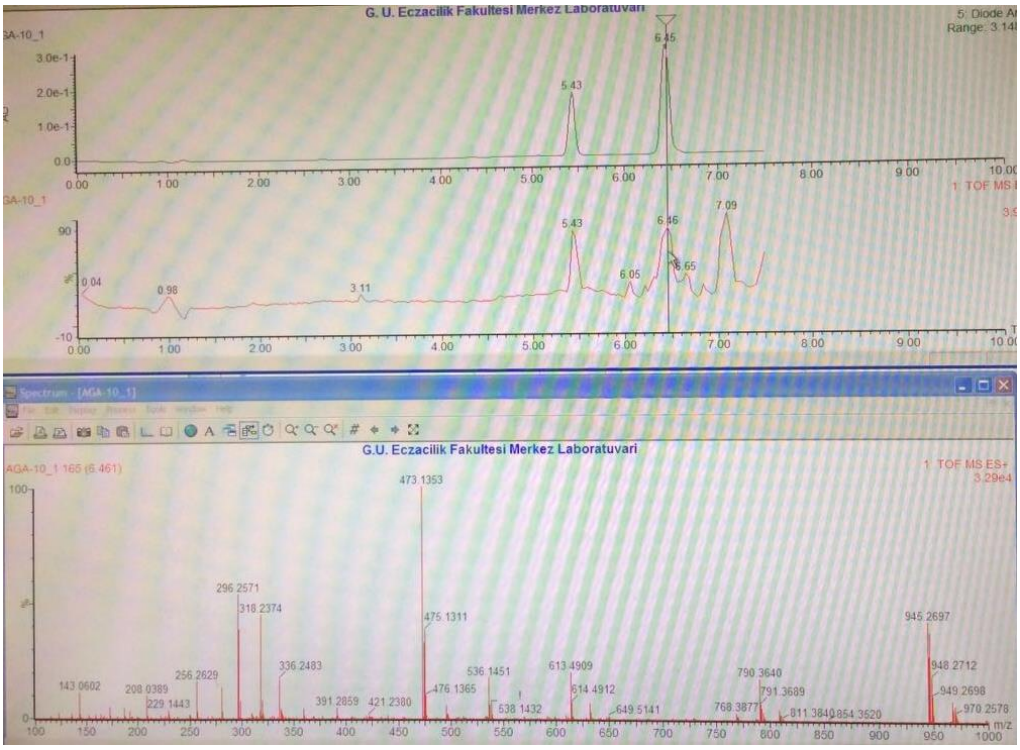

## Data 10. $^{1}$H-NMR spectrum of compound $D_{1d}$



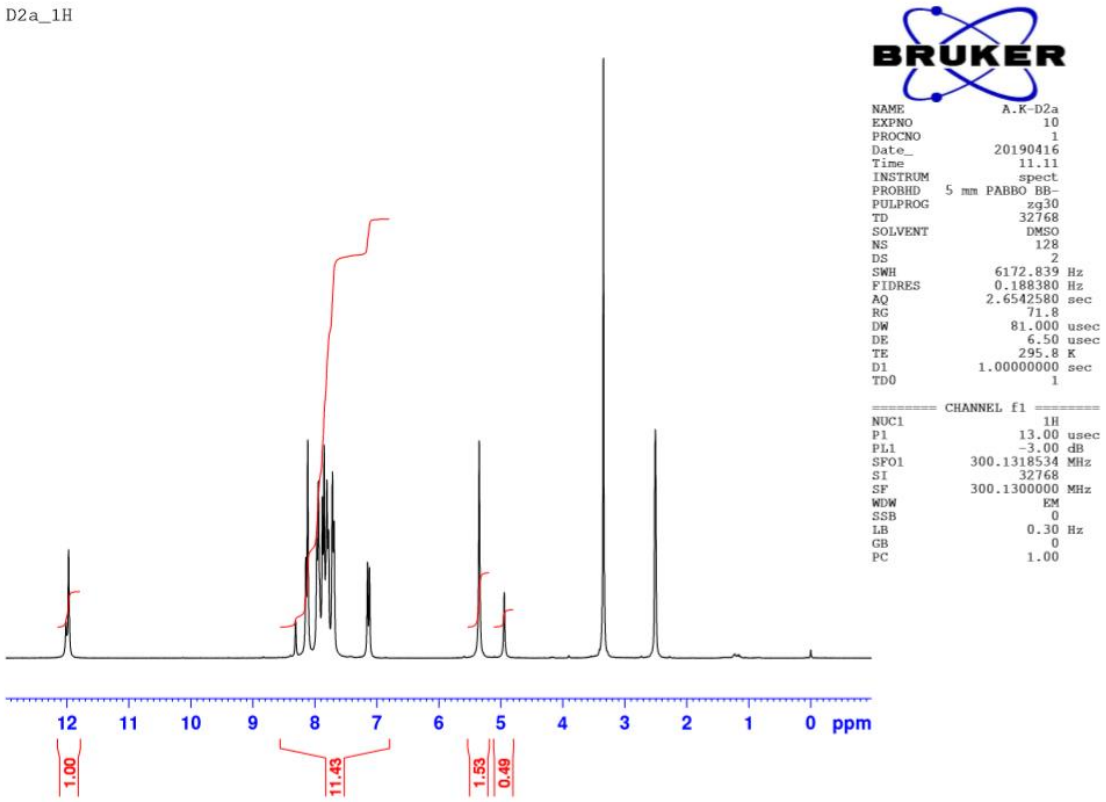
## Data 11. $^{13}$C-NMR spectrum of compound $D_{1d}$



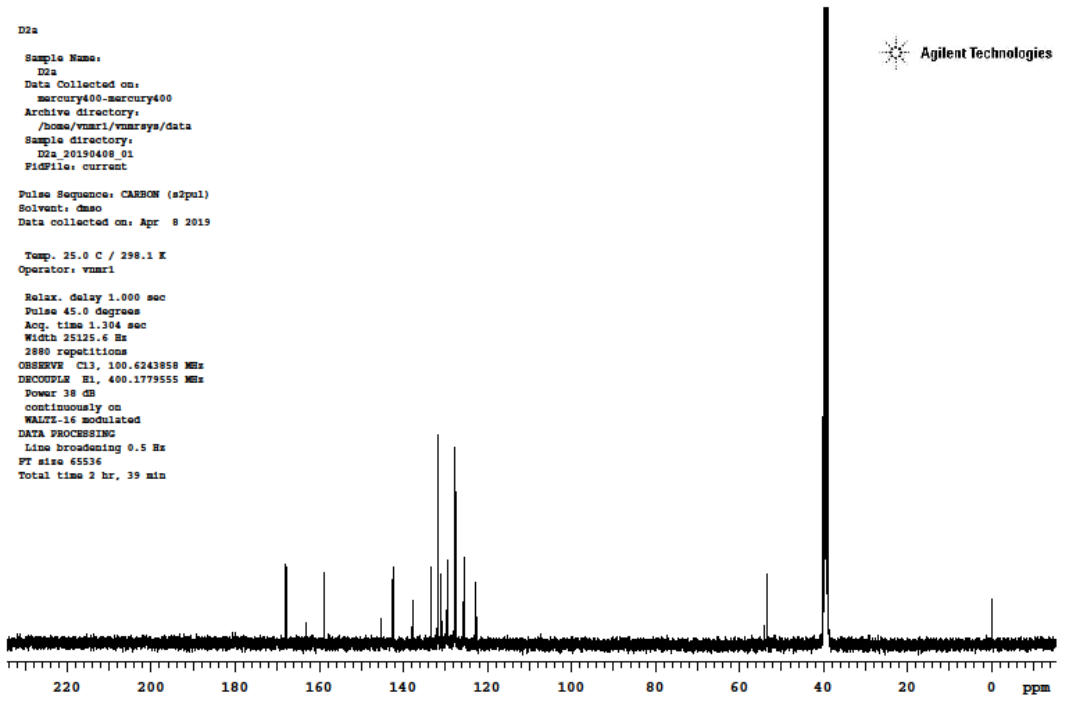

## Data 12. Mass spectrum of compound $D_{1d}$



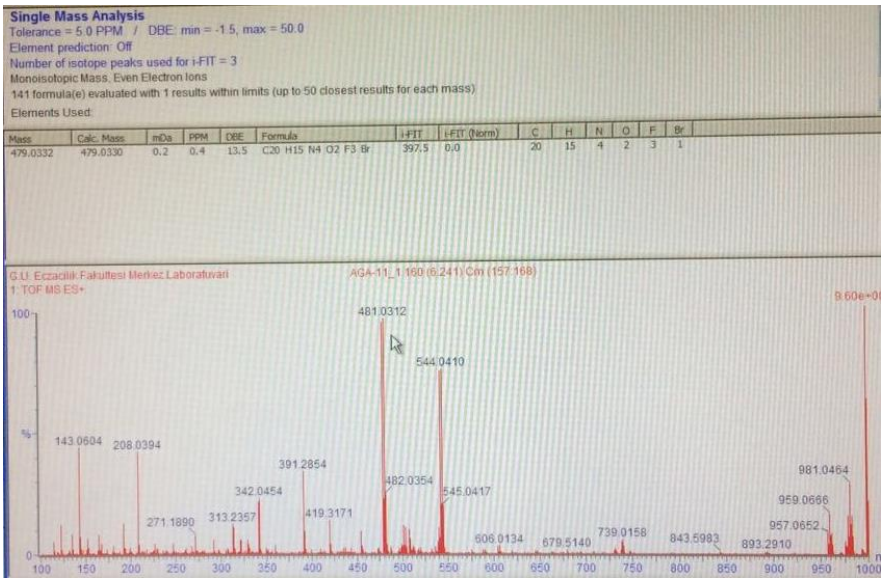
**Data 13. $^{1}$H-NMR spectrum of compound $D_{2a}$**



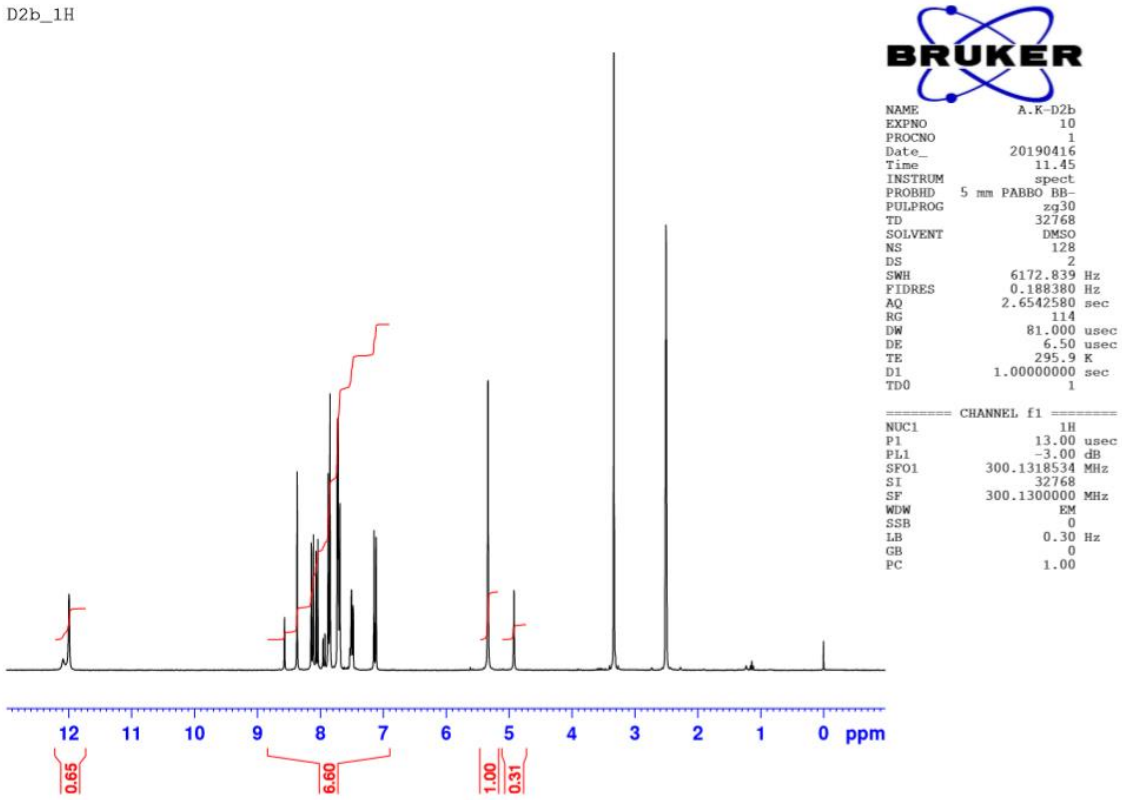

**Data 14. $^{13}$C-NMR spectrum of compound $D_{2a}$**



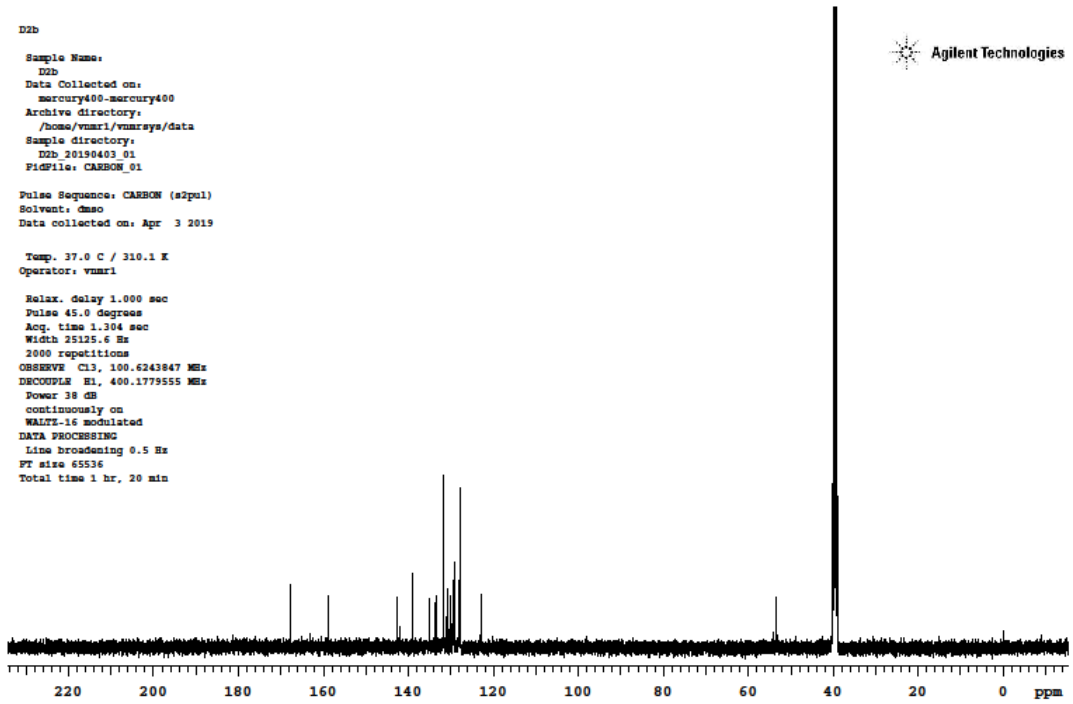
**Data 15. Mass spectrum of compound $D_{2a}$**



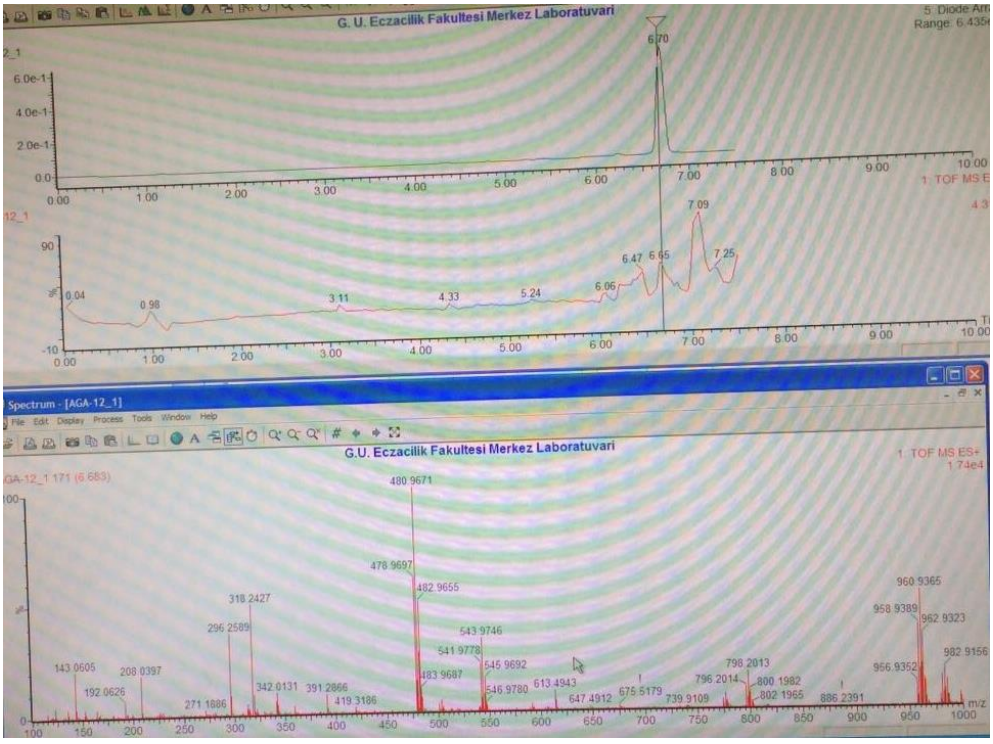

**Data 16. $^{1}$H-NMR spectrum of compound $D_{2b}$**



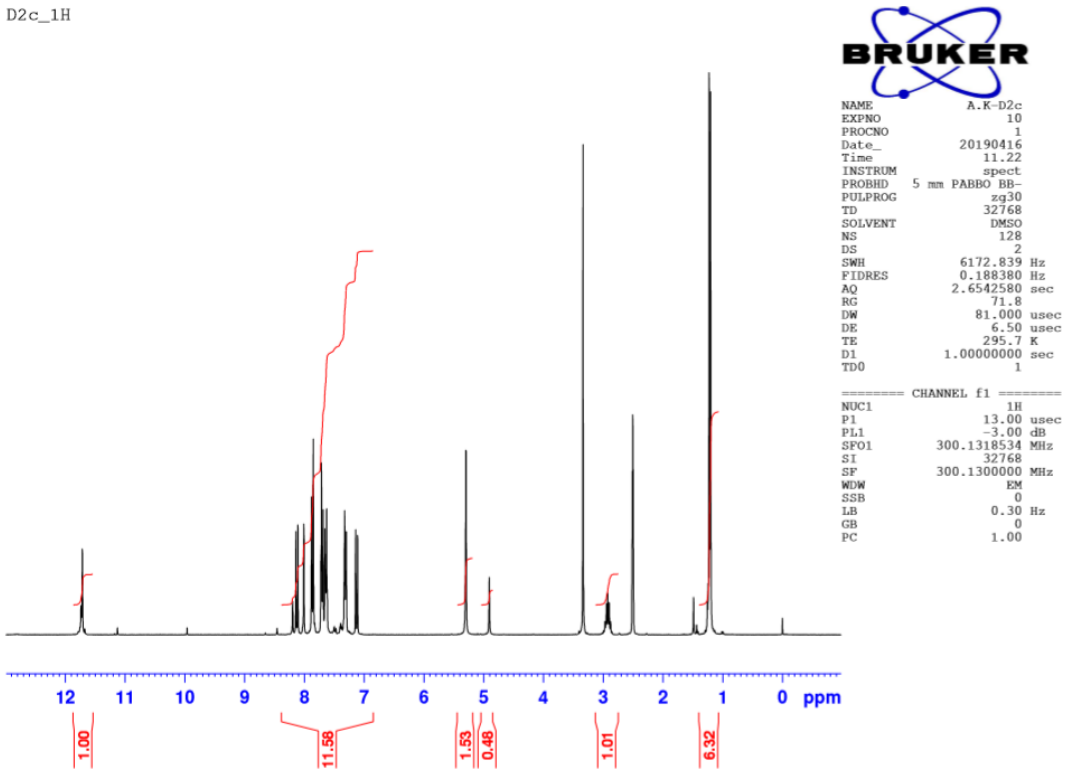
## Data 17. $^{13}$C-NMR spectrum of compound $D_{2b}$



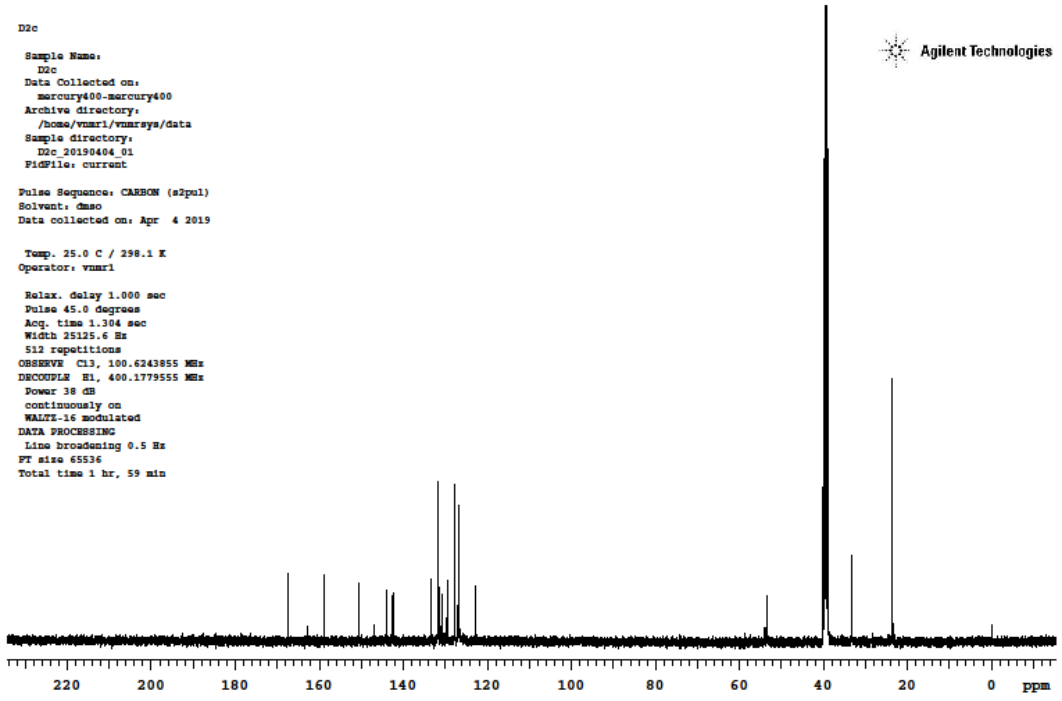

## Data 18. Mass spectrum of compound $D_{2b}$



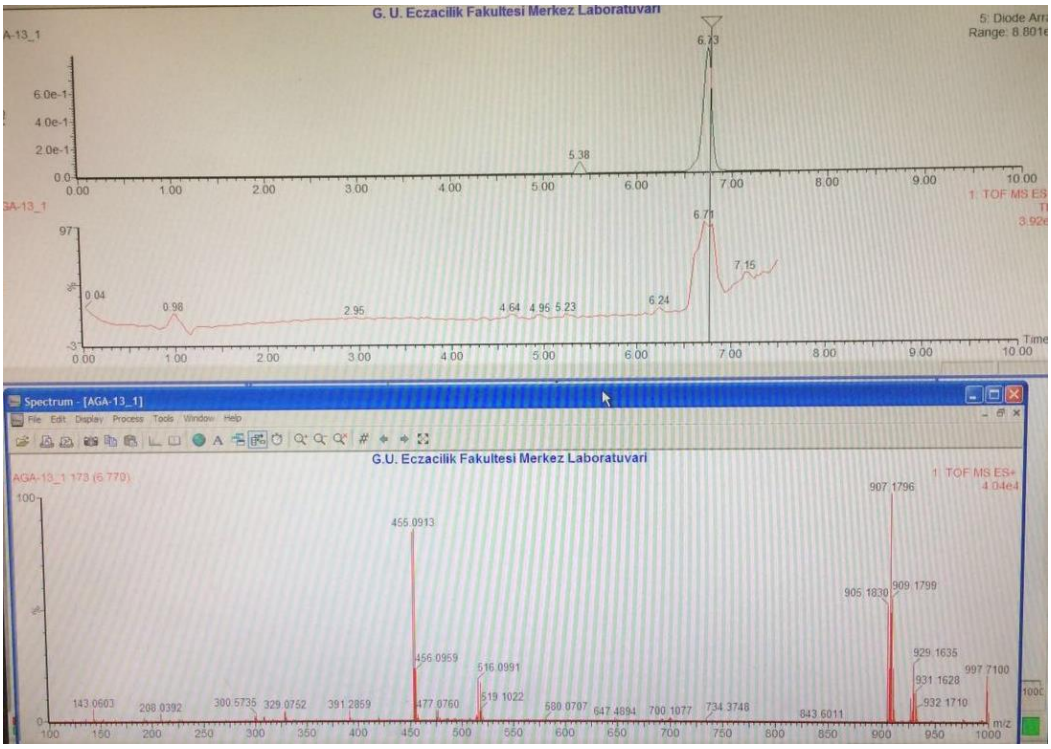
**Data 19. $^{1}$H-NMR spectrum of compound $D_{2c}$**



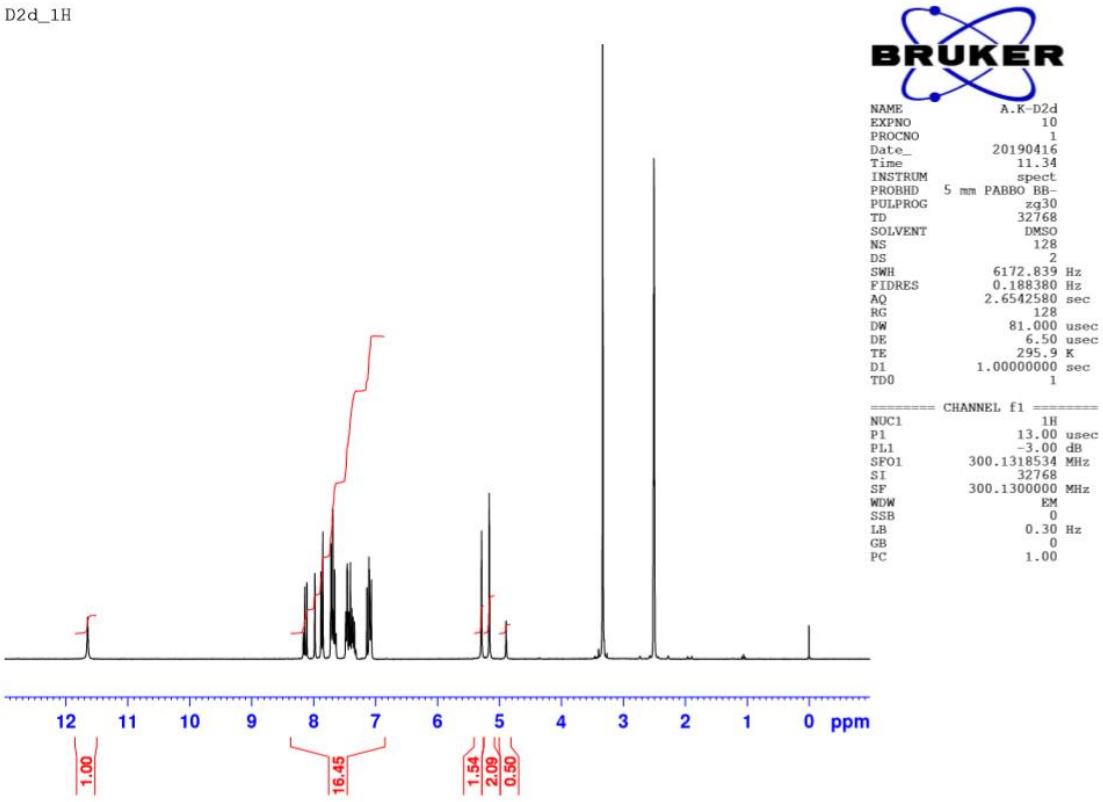

**Data 20. $^{13}$C-NMR spectrum of compound $D_{2c}$**



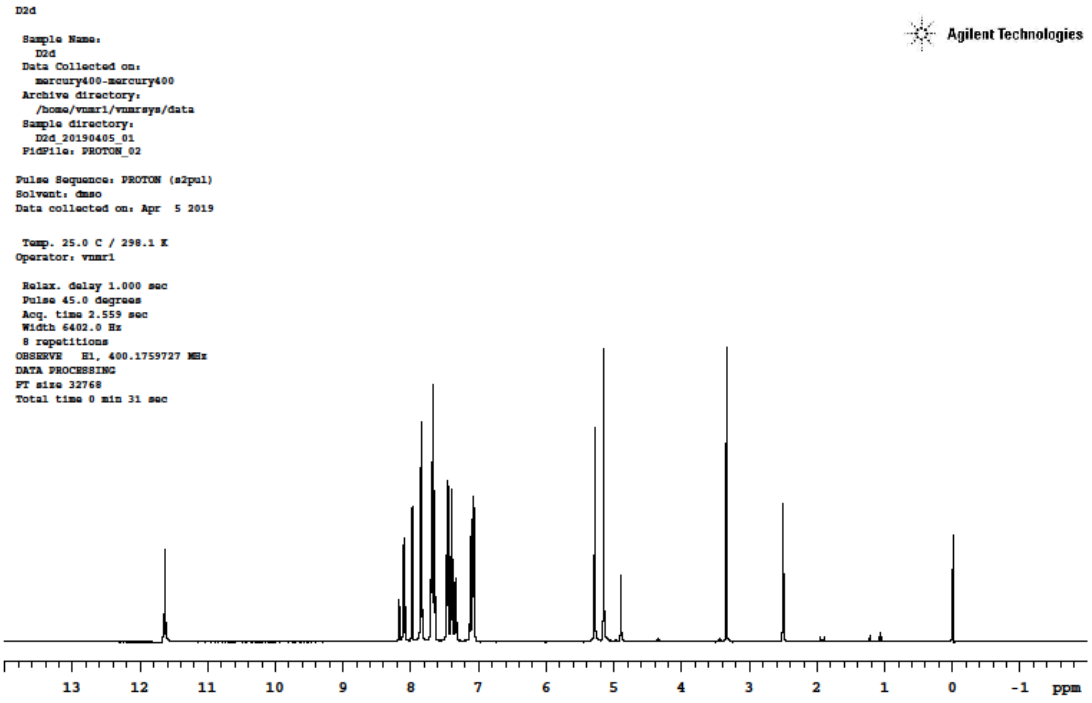
**Data 21. Mass spectrum of compound $D_{2c}$**




**Data 22. $^{1}$H-NMR spectrum of compound $D_{2d}$**



## Data 23. $^{13}$C-NMR spectrum of compound $D_{2d}$




## Data 24. Mass spectrum of compound $D_{2d}$