Pharmaceutical Sciences. 2025;31(3):294-S1
doi:10.34172/PS.025.40914
https://ps.tbzmed.ac.ir/

Table S1. ^{1}H and ^{13}C (300 & 600 MHz) NMR data for Compounds **1a** & **1b** in DMSO

	1a (Stigmasterol glucoside)		(Rosli et al.,[40] 2020)	**1b** (*β*-sitosterol glucoside)		(Khatun et al.,[38] 2012)
	δ_C	δ_H	δ_C	δ_C	δ_H	δ_C
1	2.12, 2.35*	38.8	38.38	*	36.7	36.85
2	*	–	33.41	1.23*	29.0	29.12
3	3.45 *m*	77.4	77.05	3.45 m	77.3	78.61
4	1.79*	37.3	36.90	0.98, 1.79*	42.3	42.12
5	–	140.9	140.53	–	140.9	139.98
6	5.33 *t*	121.7	121.29	5.33 *t*	121.7	121.54
7	1.91*	31.8	31.45	1.91*	31.8	31.41
8	1.43*	31.8	31.49	1.43*	31.8	31.46
9	0.88*	50.1	49.68	0.88*	50.1	49.83
10	–	36.7	36.29	–	36.7	36.27
11	1.38, 1.45*	21.1	22.68	1.38, 1.45*	21.1	20.21
12	*	40.4	39.16	0.98, 1.79*	37.3	38.20
13	–	42.2	41.93	–	42.2	41.88
14	0.99 *m*	56.7	56.7	0.99 *m*	56.6	56.36
15	*	25.4	24.95	1.38*	25.4	23.79
16	1.79*	29.7	29.33	1.78*	28.3	27.76
17	1.13 *m*	55.8	55.50	1.13 *m*	55.9	55.66

18	0.66 s	12.3	12.20	0.66 s	12.2	11.27
19	0.95 *s*	19.6	19.01	0.80 *s*	20.2	19.10
20	2.01 *m*	37.3	35.55	1.33*	36.0	35.70
21	0.99 *d*, 6.48 *Hz*	21.6	18.69	0.95*	19.4	18.69
22	5.15 *m*	138.5	138.11	1.00, 1.29*	33.8	33.51
23	5.02 *m*	129.3	128.91	1.14 *m*	25.9	25.64
24	1.50*	51.1	45.22	0.91*	45.6	45.49
25	1.34*	31.9	31.41	*	29.2	28.74
26	0.82*	21.4	19.17	0.95*	19.4	18.69
27	0.78 *d*, 2.32 *Hz*	19.3	18.92	0.90 d, 6.22 *Hz*	19.1	18.35
28	1.00, 1.50*	24.3	23.94	1.21*	23.1	22.60
29	0.77*	12.6	11.74	0.81*	12.3	12.29
1’	4.20 *d*, 7.84 *Hz*	101.2	100.85	4.20 *d*, 7.84 *Hz*	101.1	100.74
2’	2.88 *	73.9	70.17	2.88*	73.9	73.21
3’	3.08 *	77.2	76.82	3.08*	77.2	76.18
4’	3.00 *	70.5	73.53	3.00*	70.5	69.90
5’	3.04 *	77.2	76.78	3.04*	77.2	75.62
6’	3.39, 3.63*	61.5	61.16	3.39, 3.63*	61.5	61.36

Assignments were based on DEPTQ, HSQC and HMBC experiments. *: Overlapped signals.

Figure S1. Thin later chromatogram of compounds 1a and 1b in ethyl acetate/methanol 9.5/0.5 (sprayed with conc. H_2SO_4 and developed in the oven at 110℃ for 10 minutes)

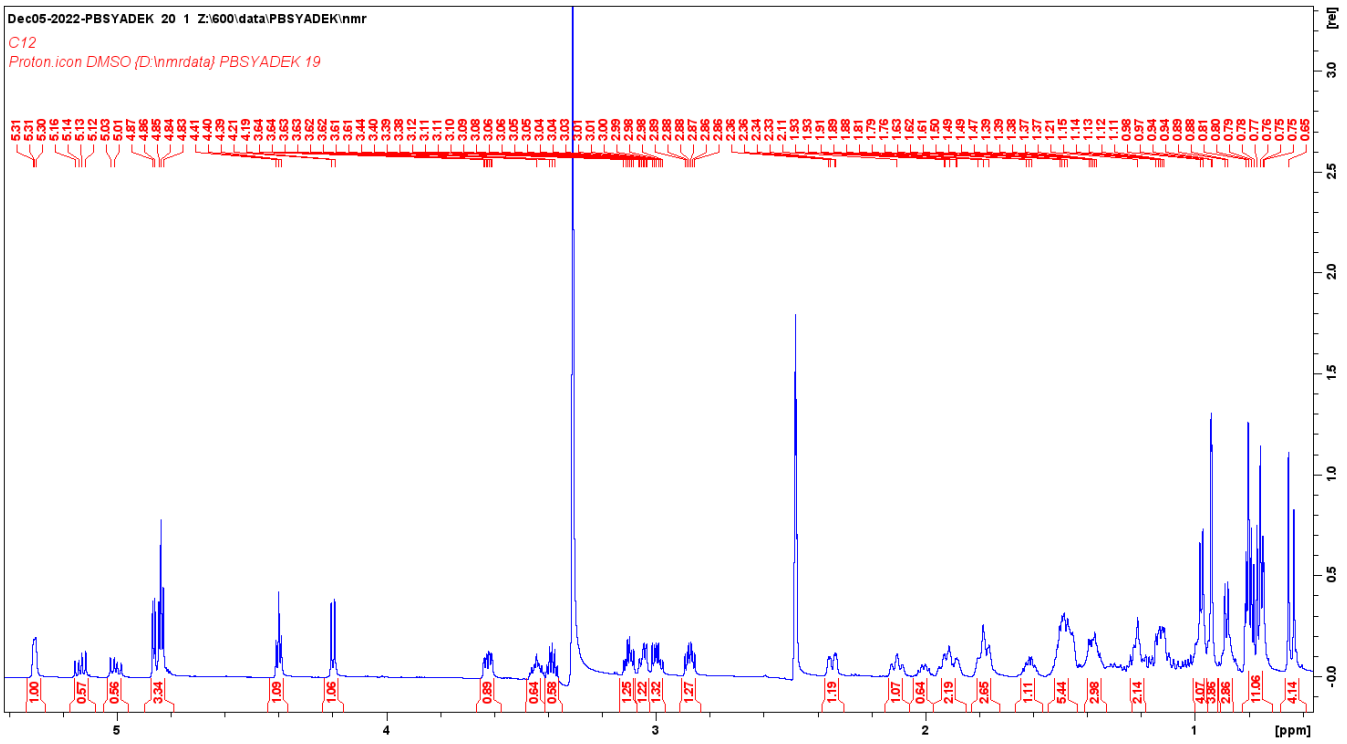

Figure S2. ^{1}H NMR spectrum of compounds 1a and 1b

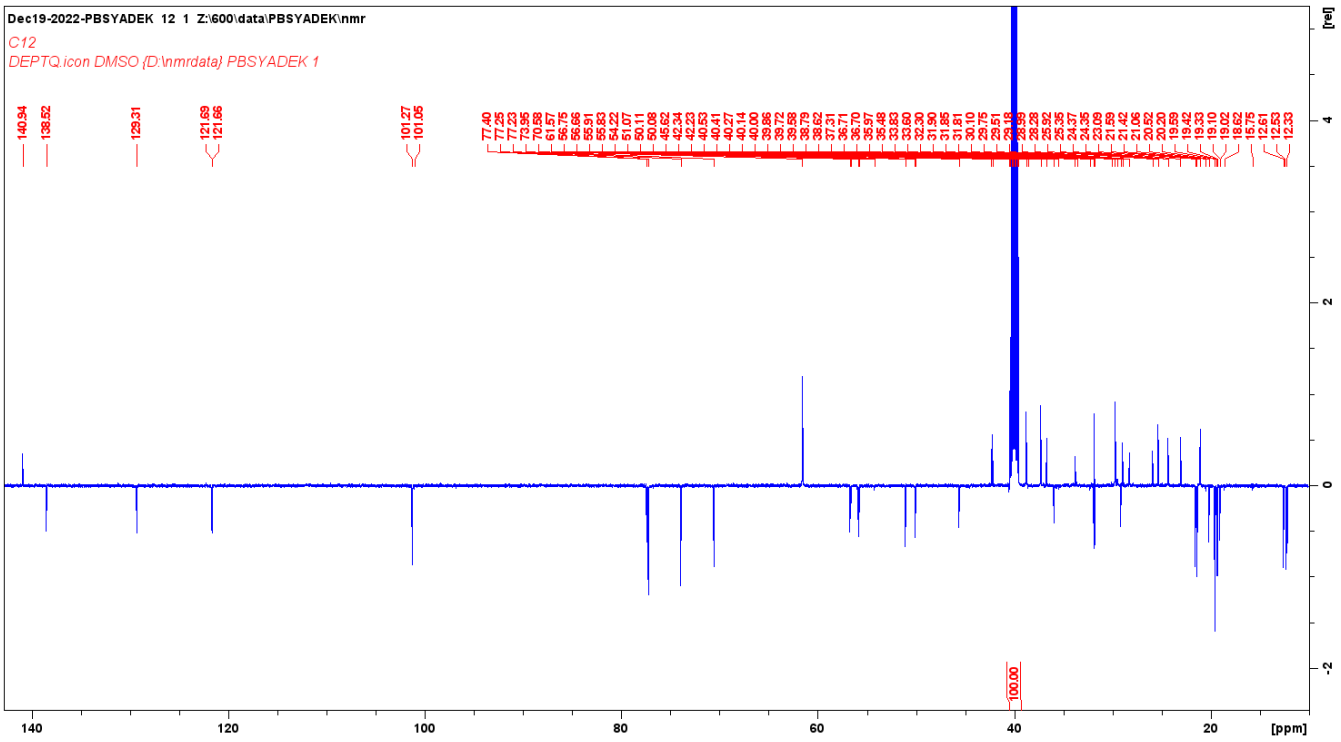

Figure S3. ^{13}C-DEPT-Q spectrum of compounds 1a and 1b

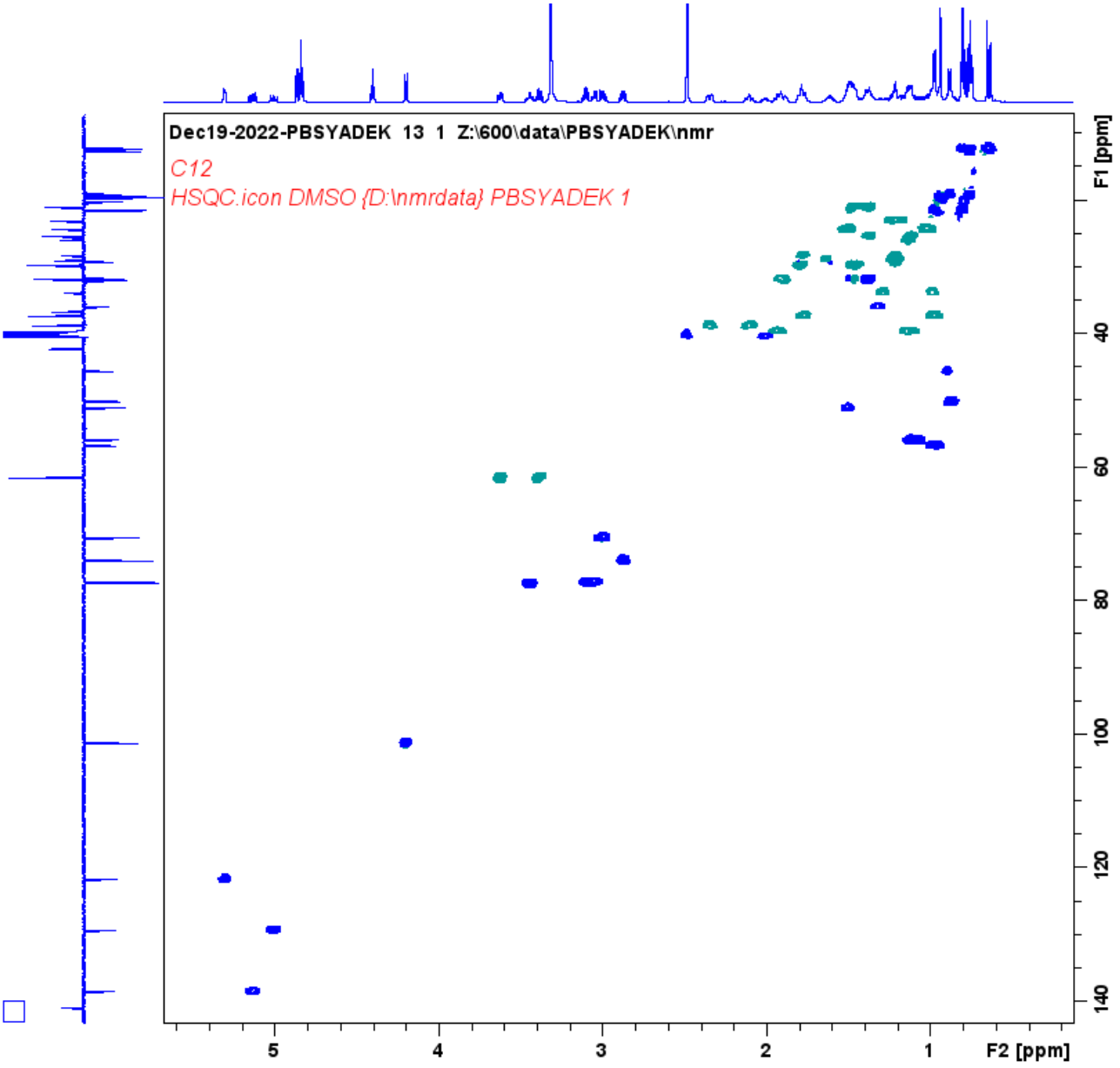

Figure S4. HSQC spectrum of compounds 1a and 1b

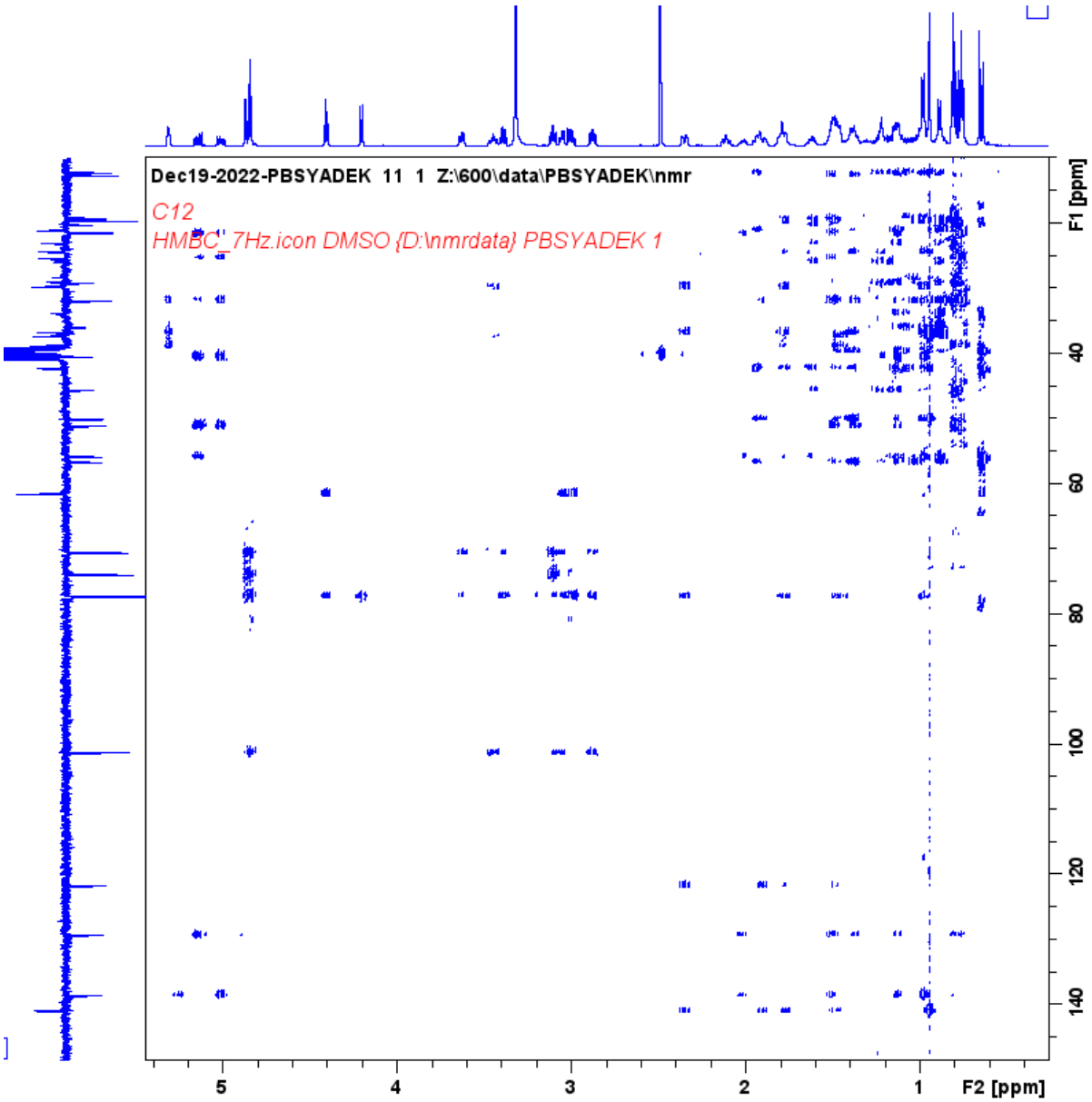

Figure S5. HMBC spectrum of compounds 1a and 1b

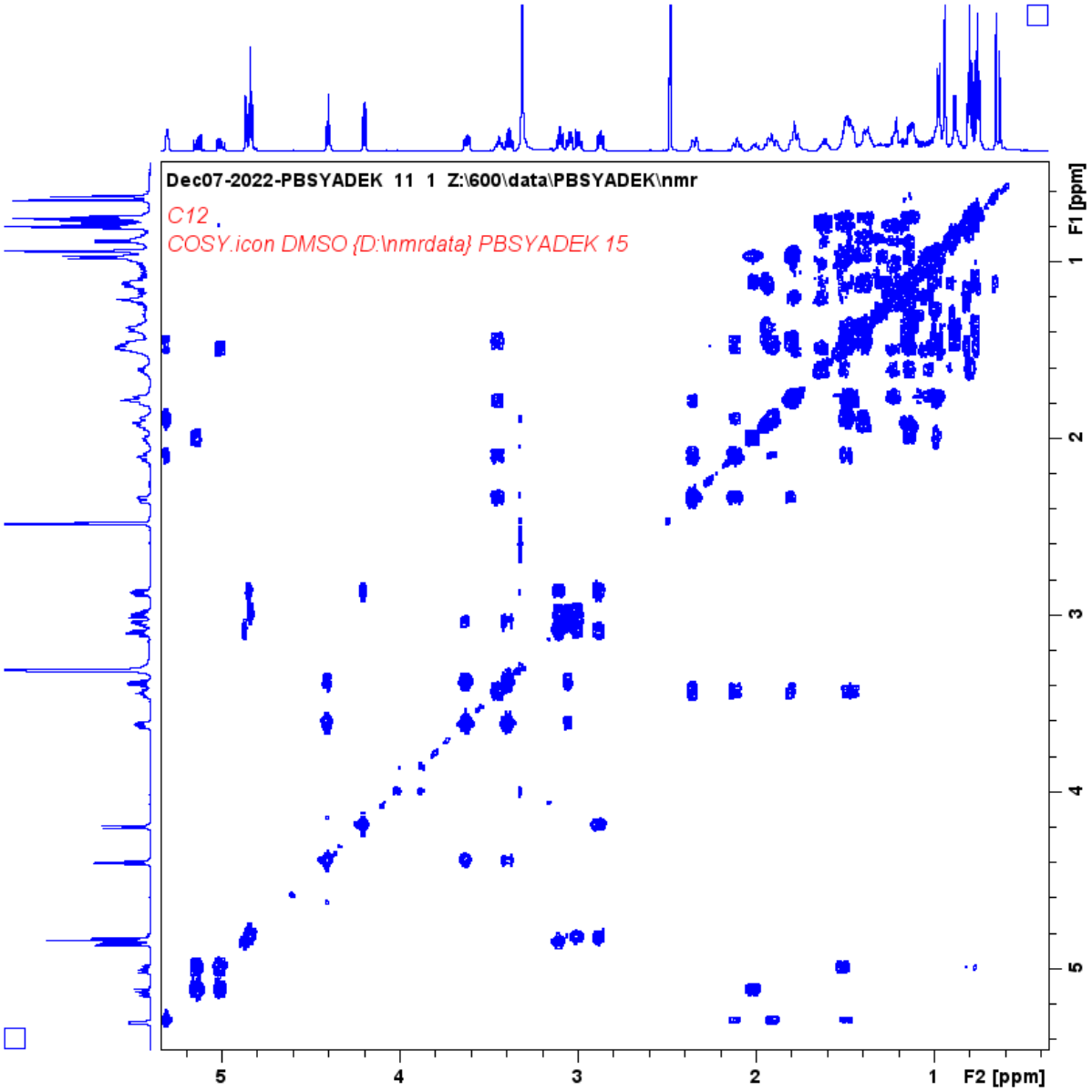

Figure S6. COSY spectrum of compounds 1a and 1b

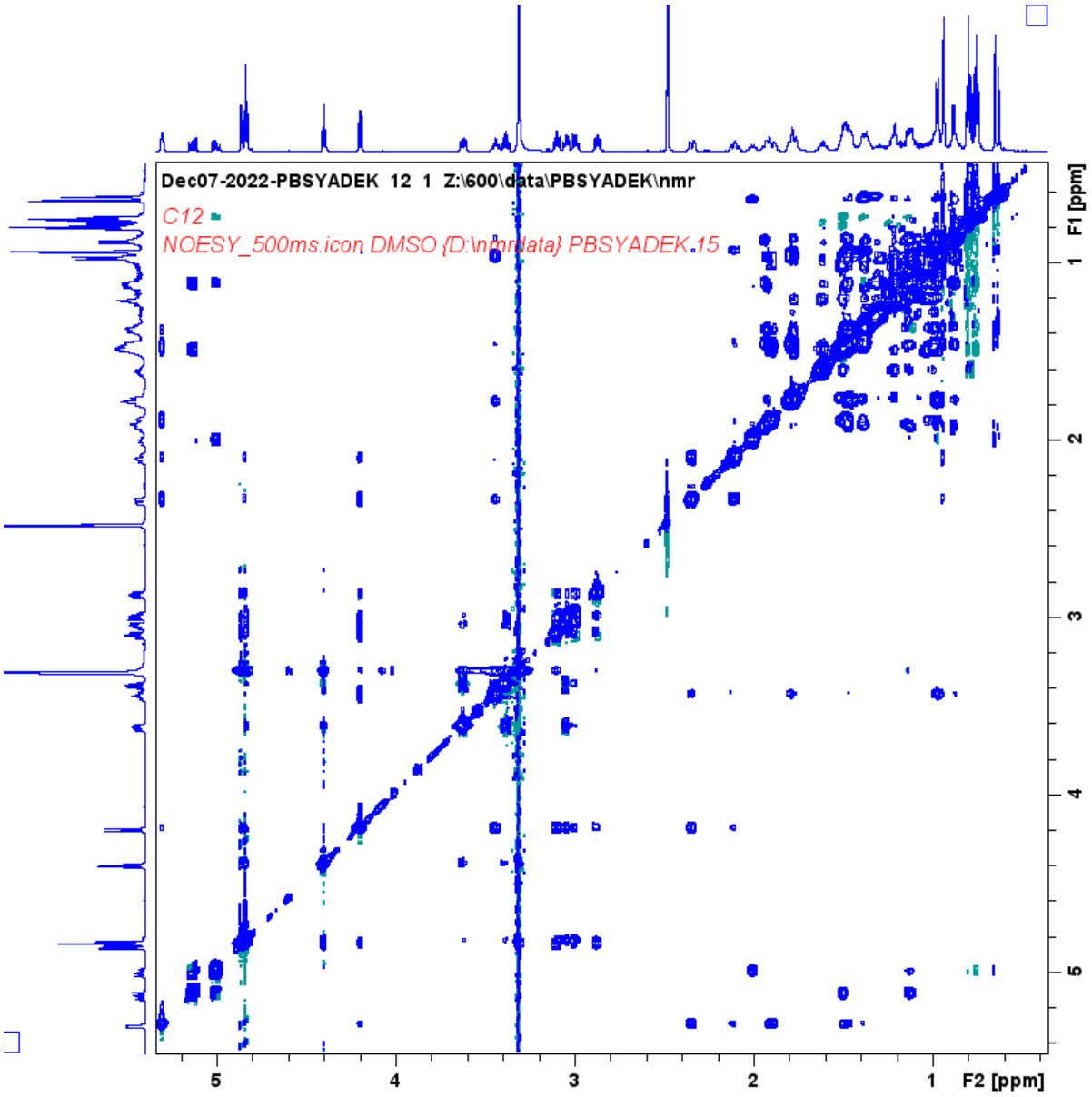

Figure S7. NOESY spectrum of compounds 1a and 1b

Agilent Technologies

Sample ID:C12
Sample Scans:32
Background Scans:8
Resolution:2
System Status:Good
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User:pbs
Date/Time:02/14/2023 11:06:51 AM
Range:4000 - 650
Apodization:Happ-Genzel
File Location:C:\Users\Public\Documents\Agilent\MicroLab\Results\\C12_2023-02-14T11-06-51.a2r

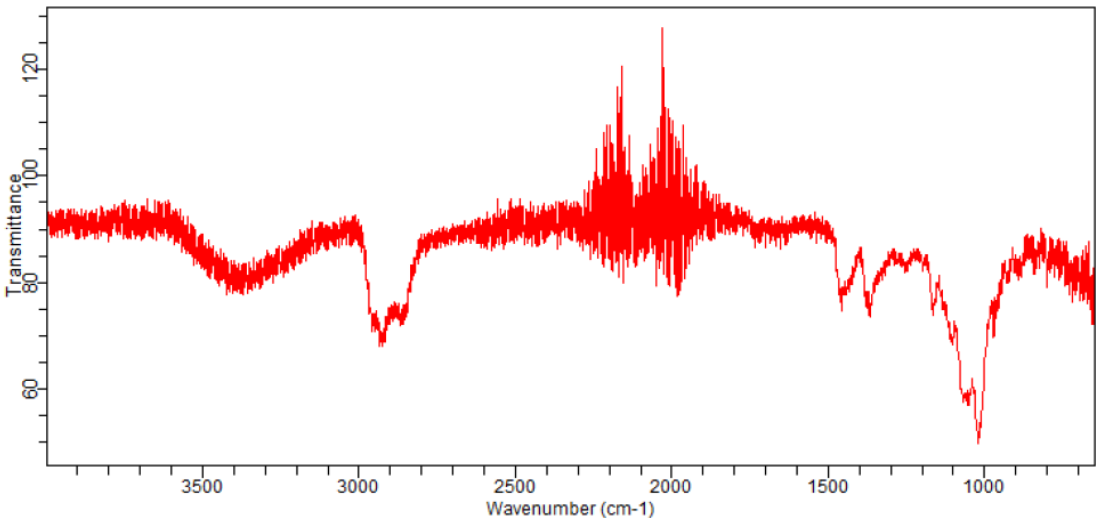

Figure S8. FTIR Spectrum of compounds1a and 1b