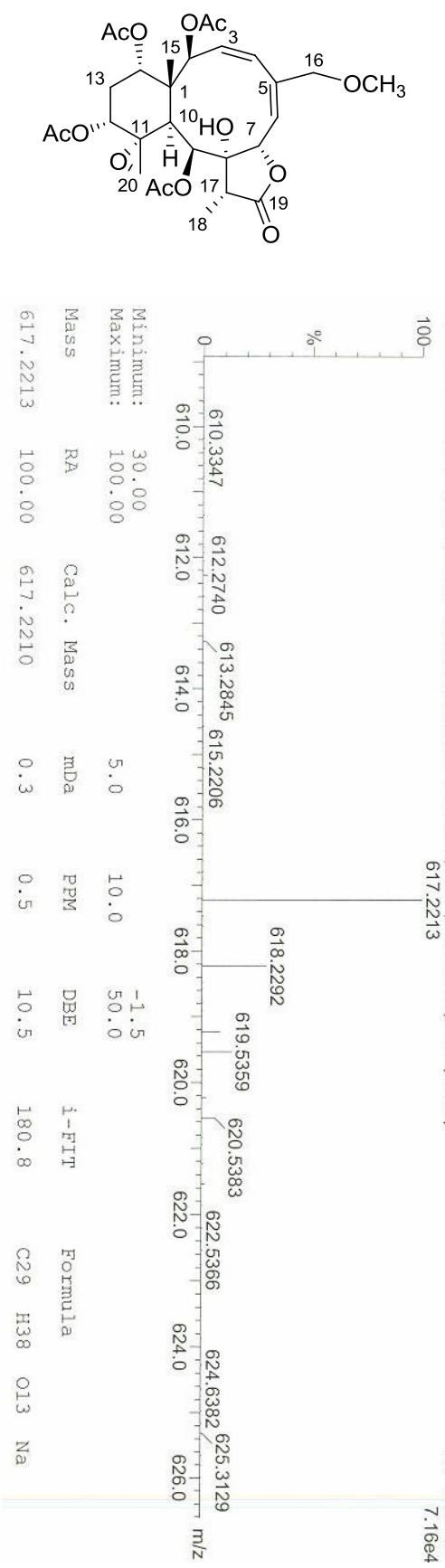


Supporting Information

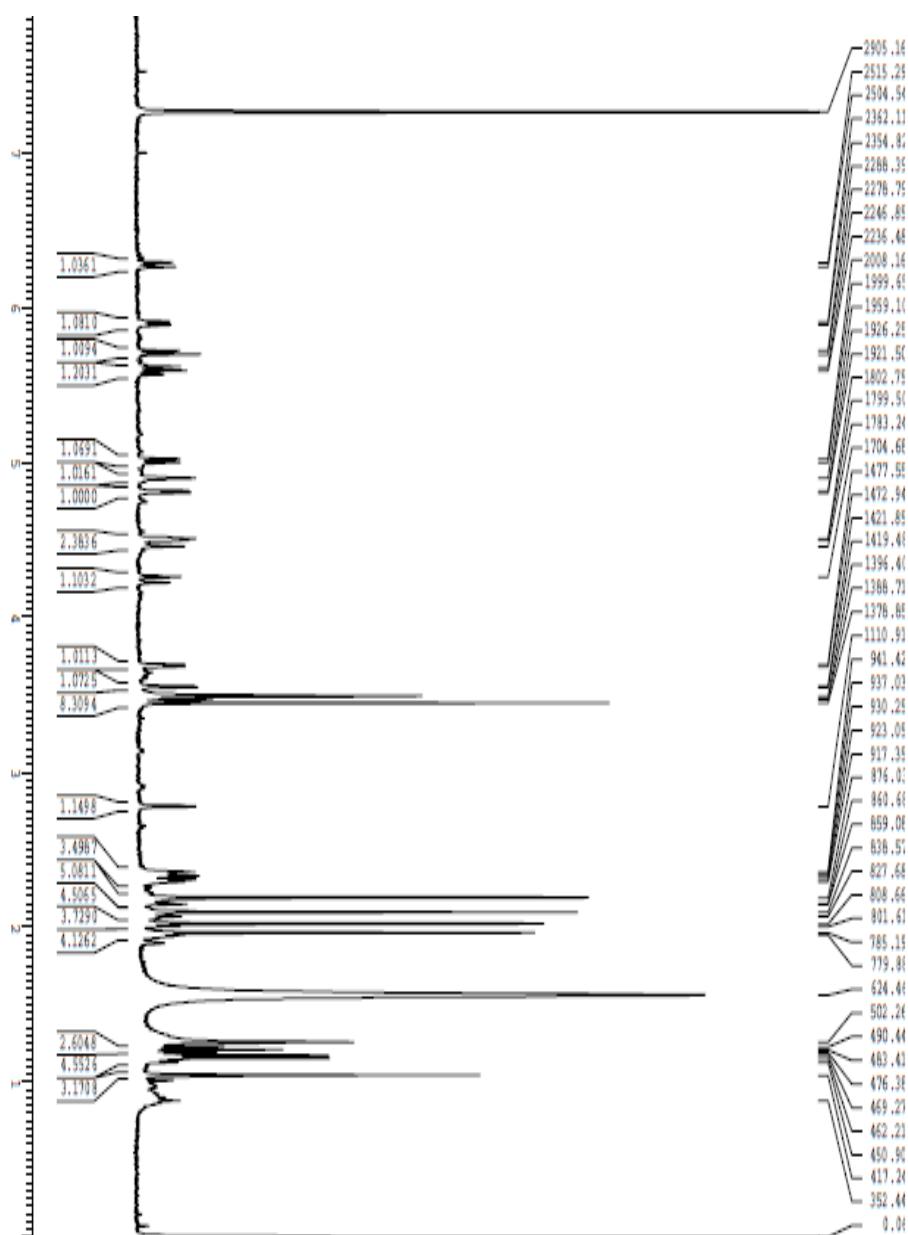
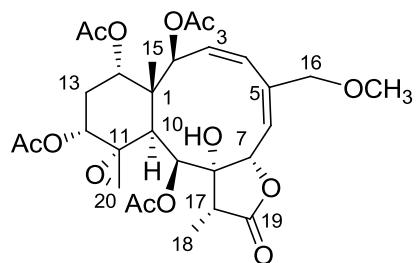
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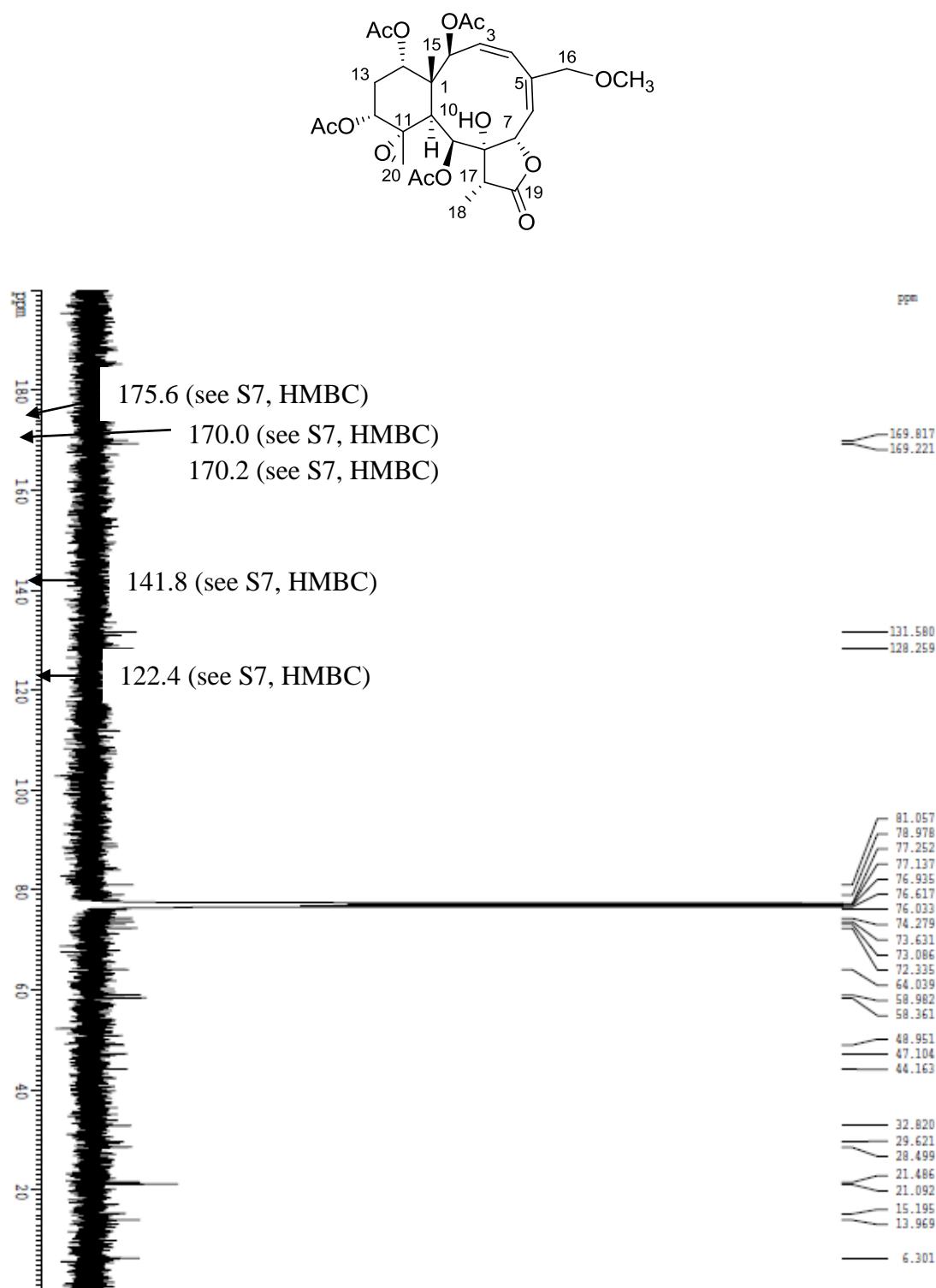
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	^{13}C NMR spectrum of the new compound 1	S3
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	HSQC spectrum of the new compound 1	S5
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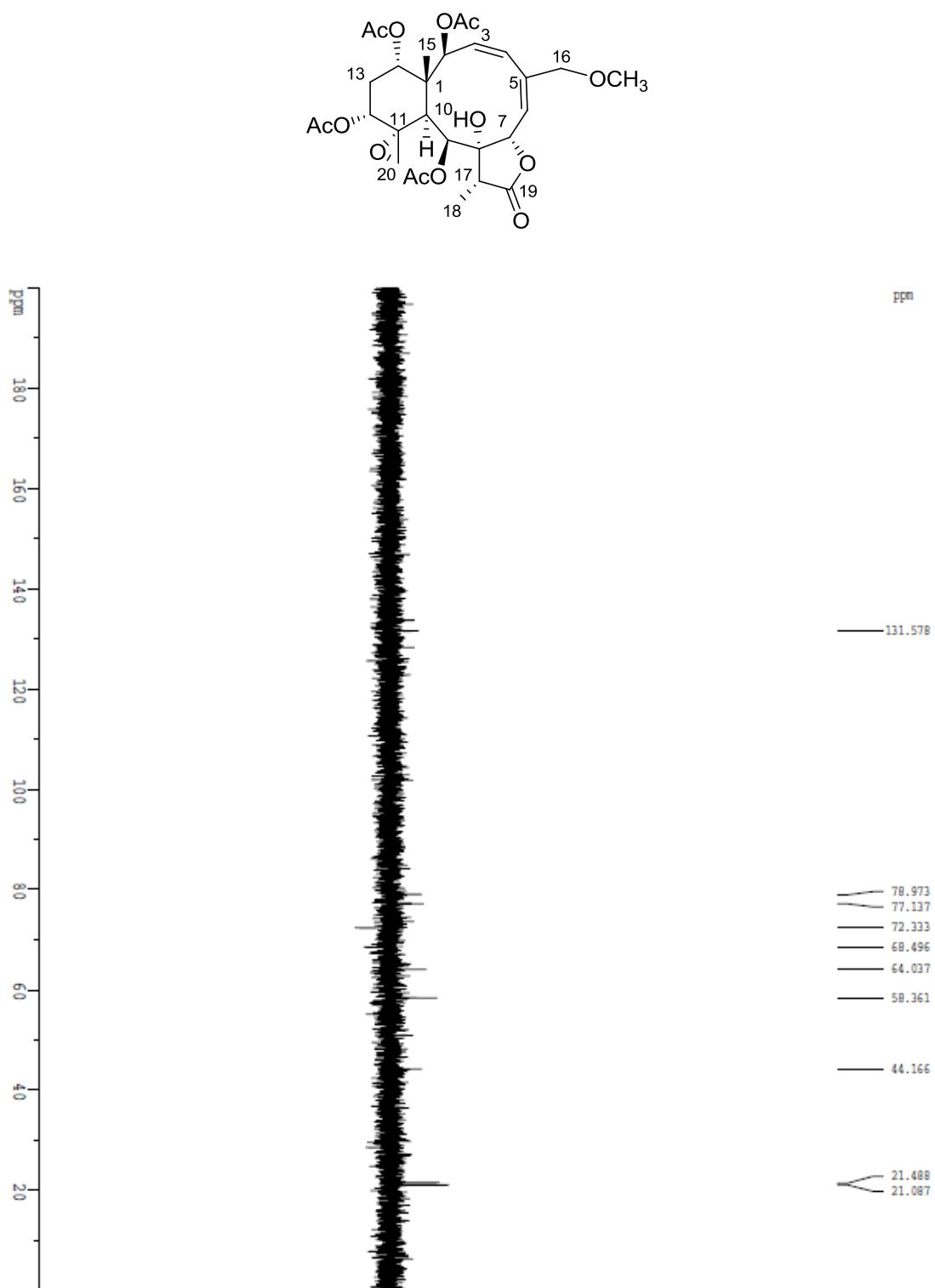
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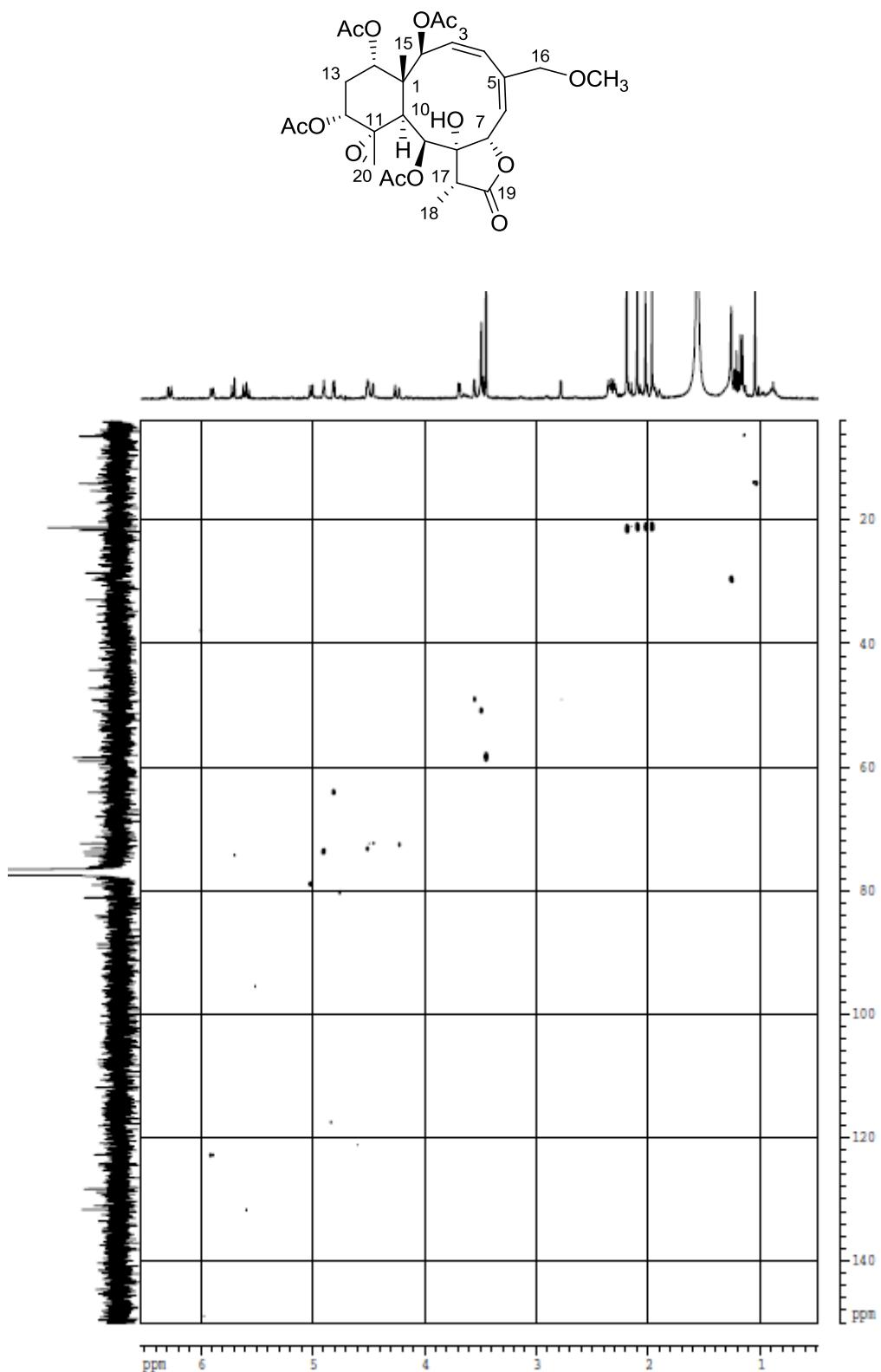
S1. HR-ESIMS spectrum of the new compound **1**.

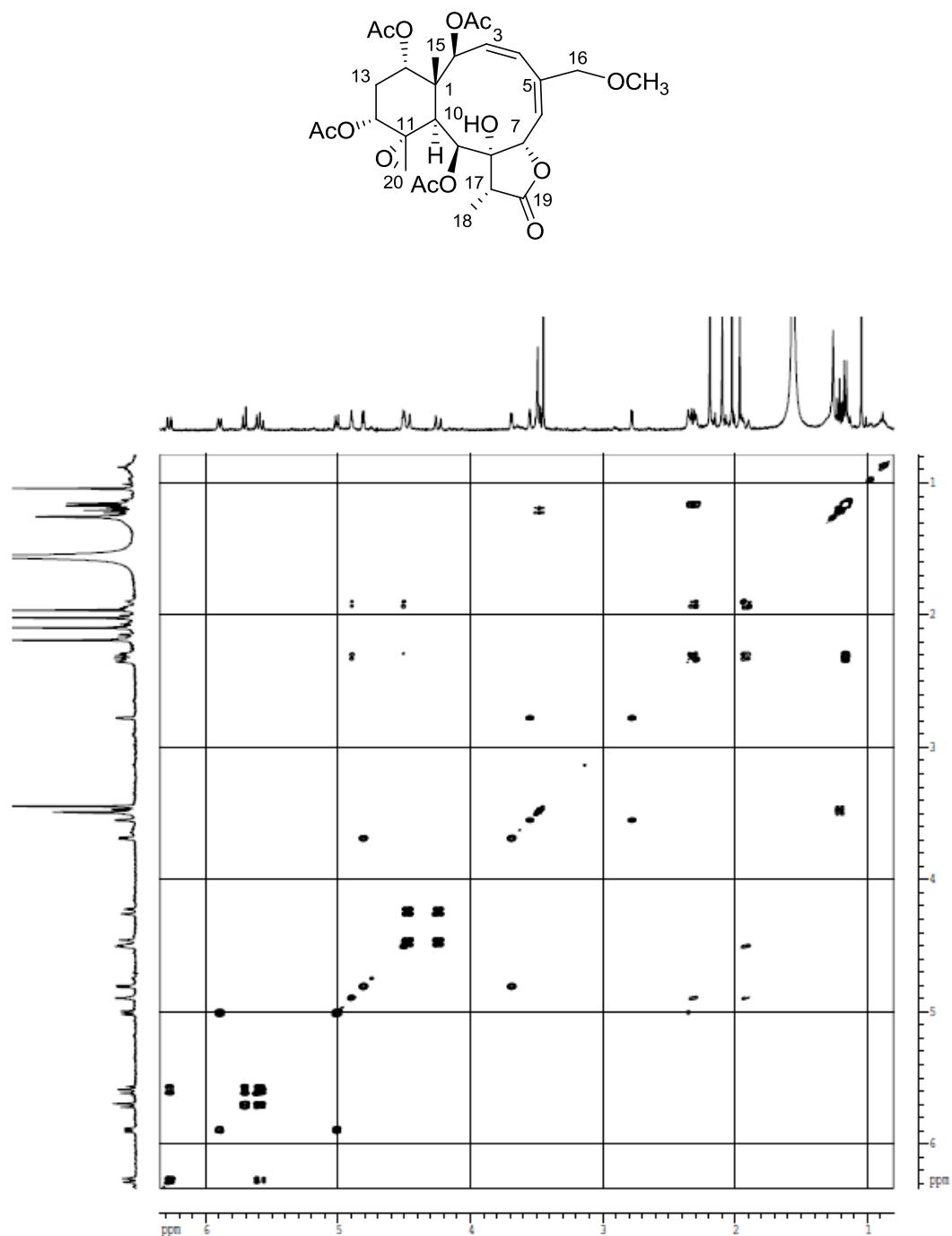
S2. ^1H NMR spectrum of the new compound **1**.

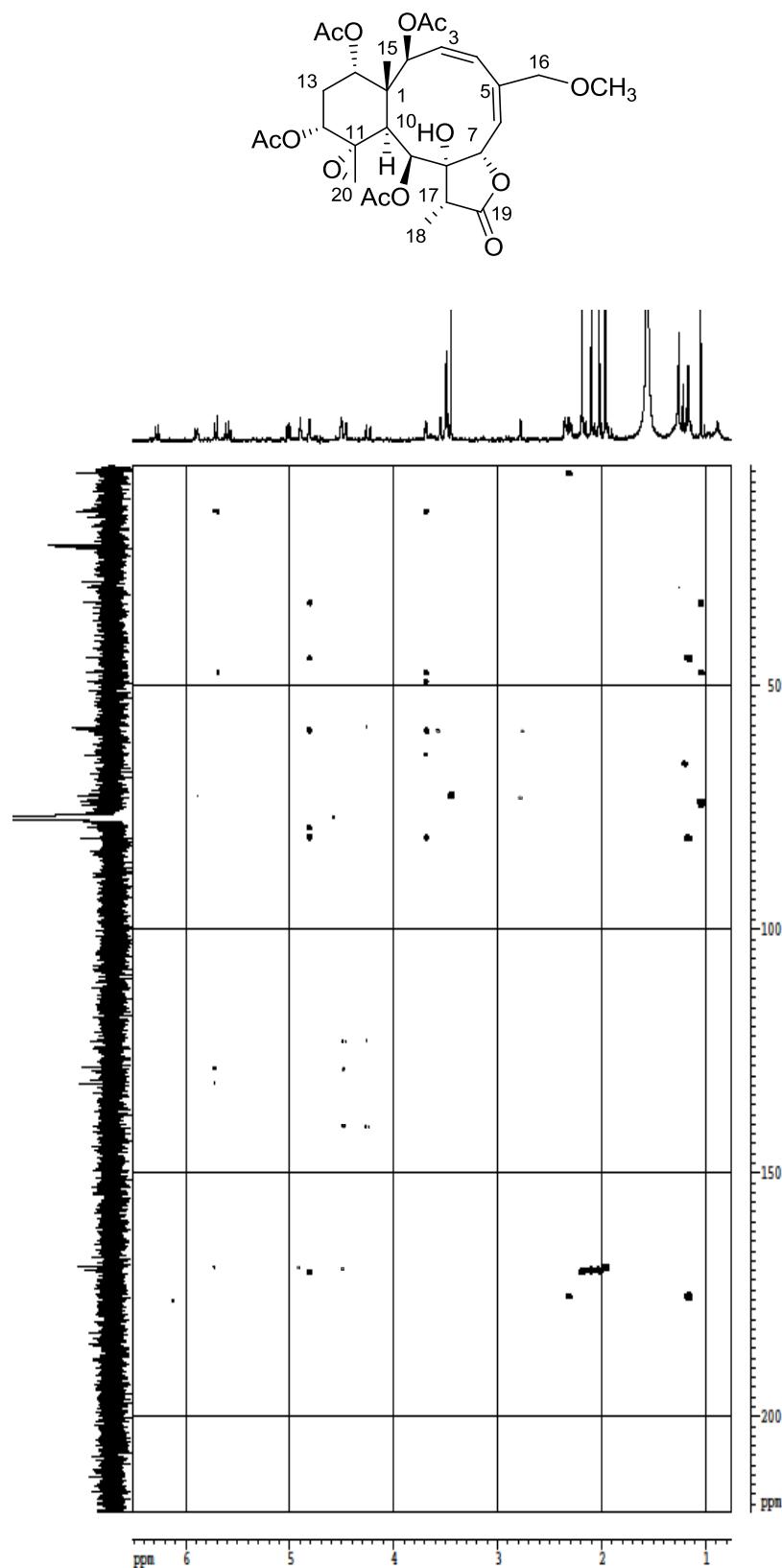


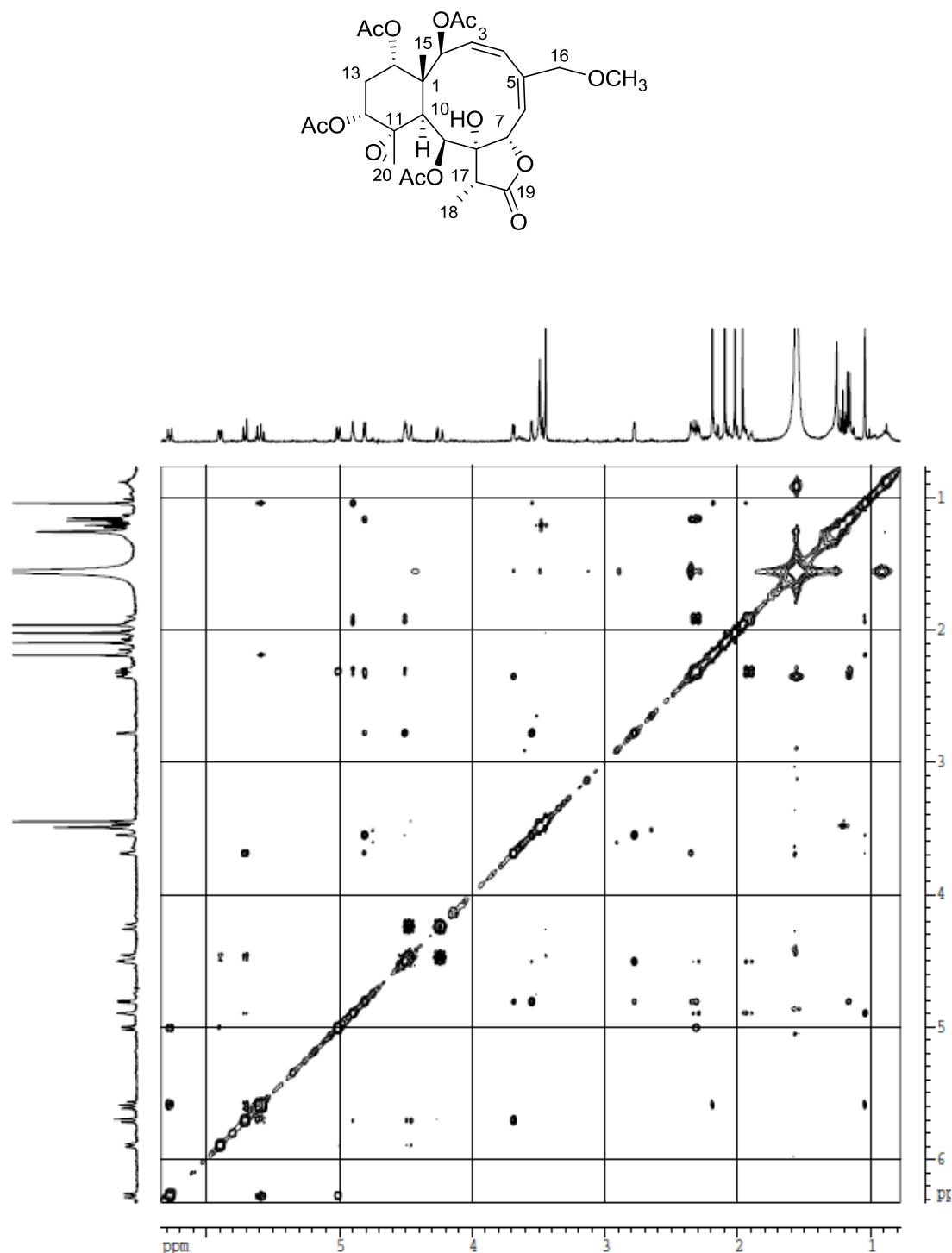
S3. ^{13}C NMR spectrum of the new compound **1**.

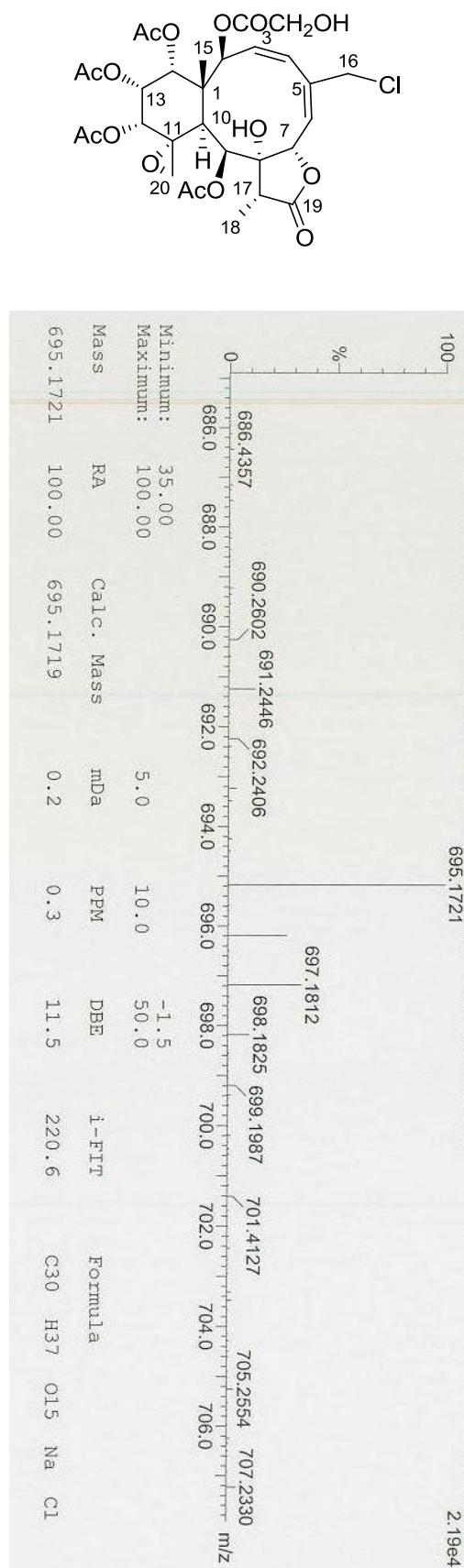
S4. DEPT spectrum of the new compound **1**.

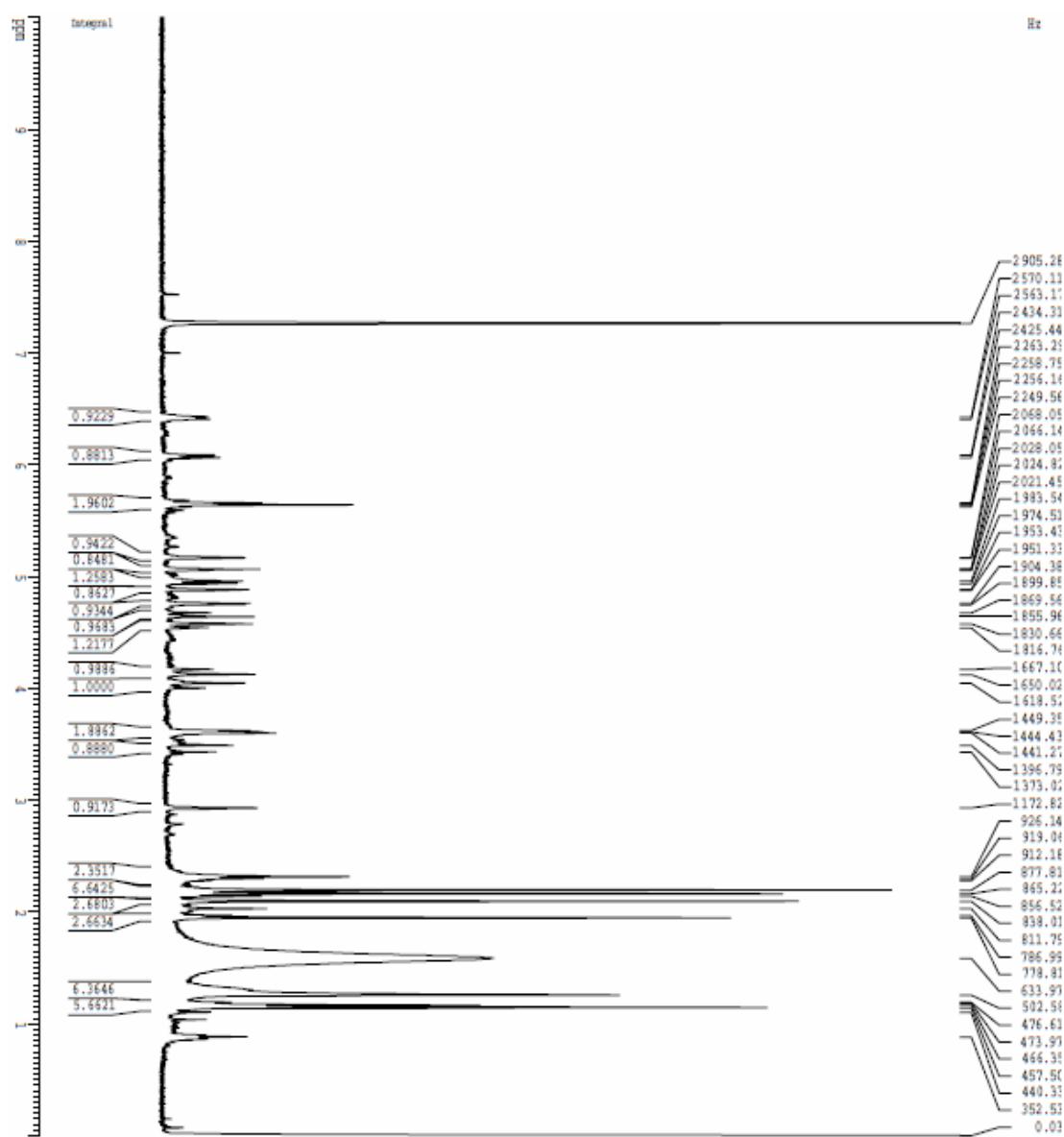
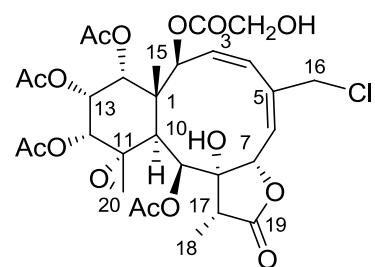
S5. HSQC spectrum of the new compound **1**.

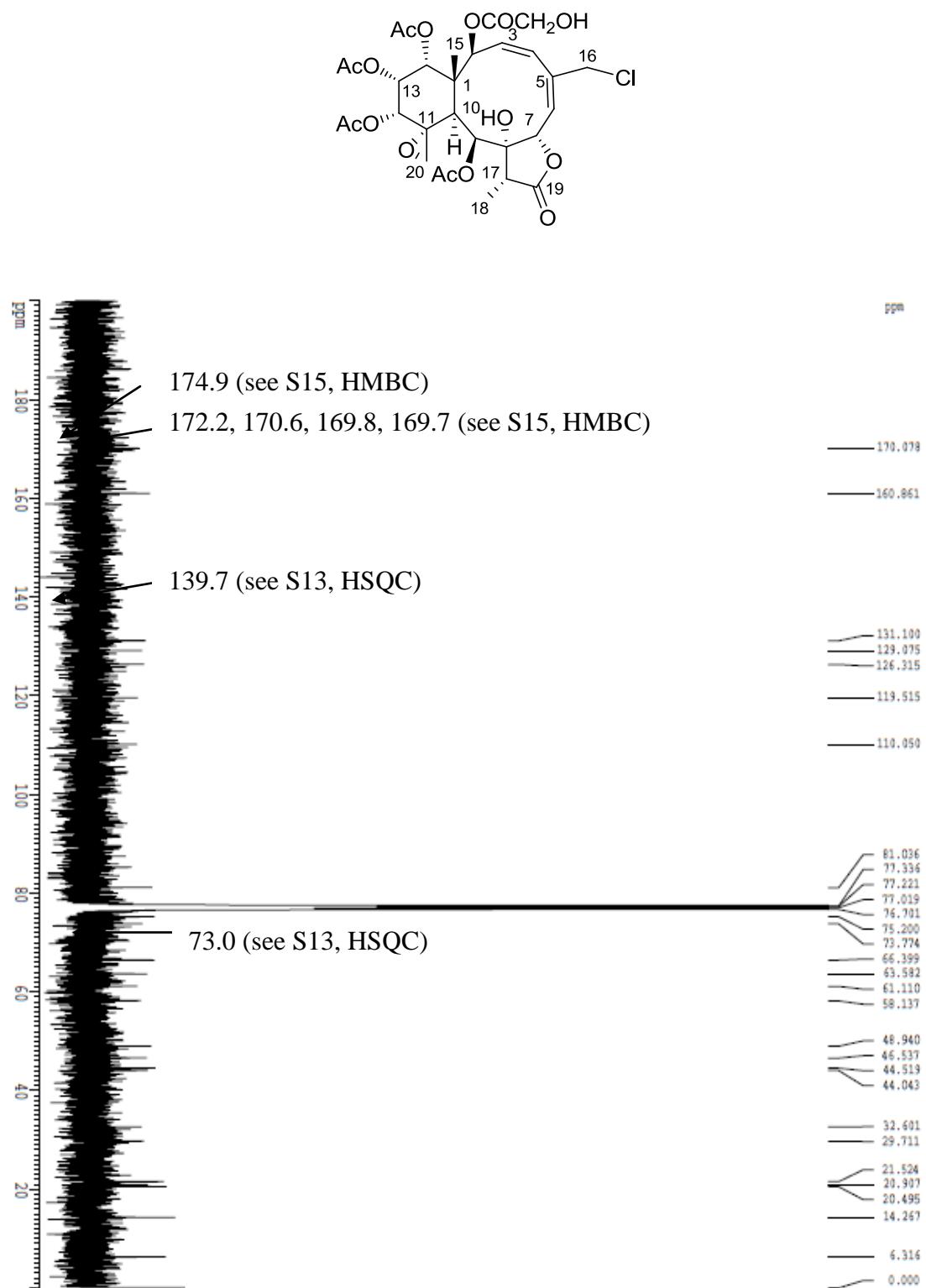
S6. ^1H - ^1H COSY spectrum of the new compound **1**.

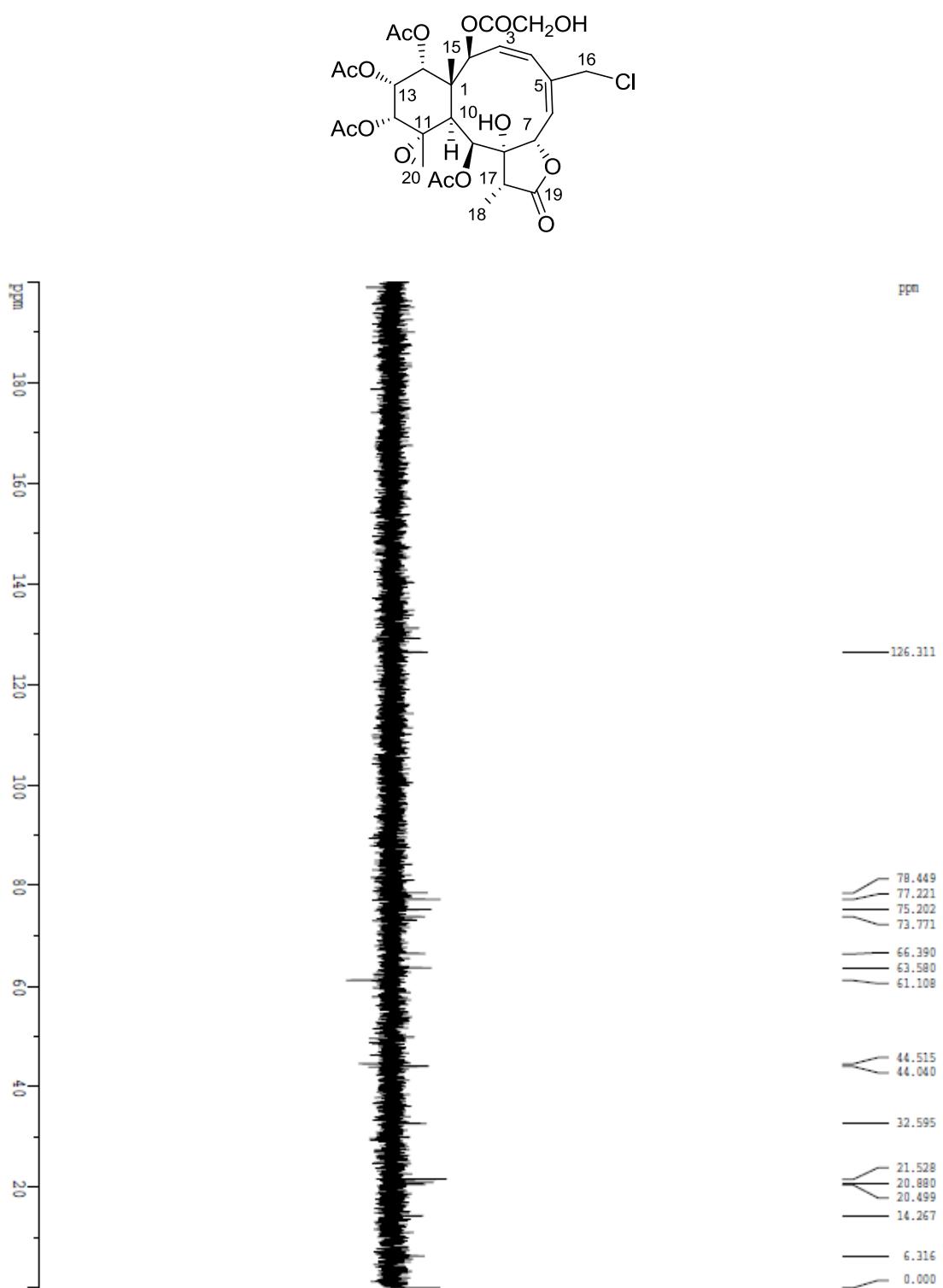
S7. HMBC spectrum of the new compound **1**.

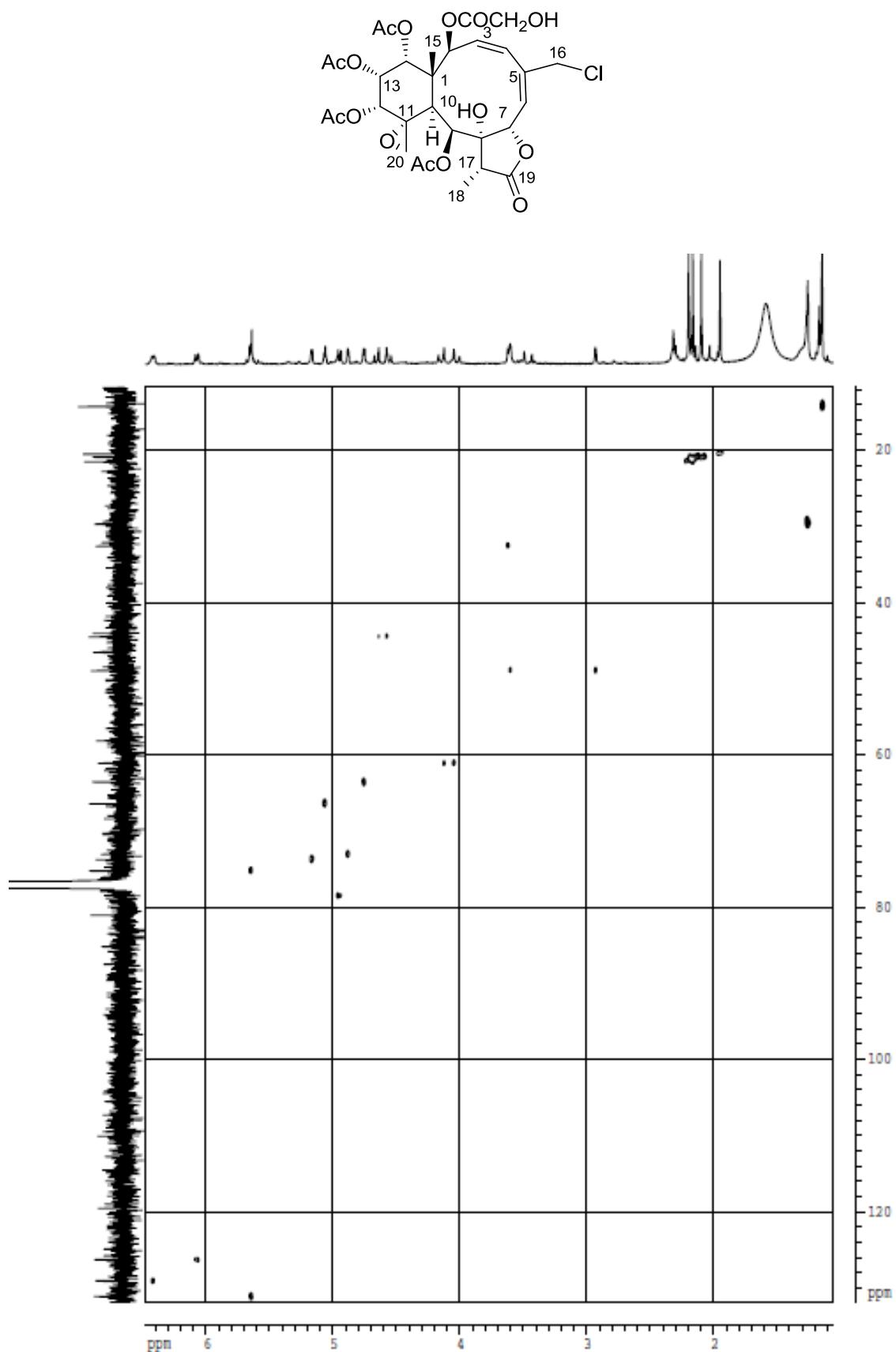
S8. NOESY spectrum of the new compound **1**.

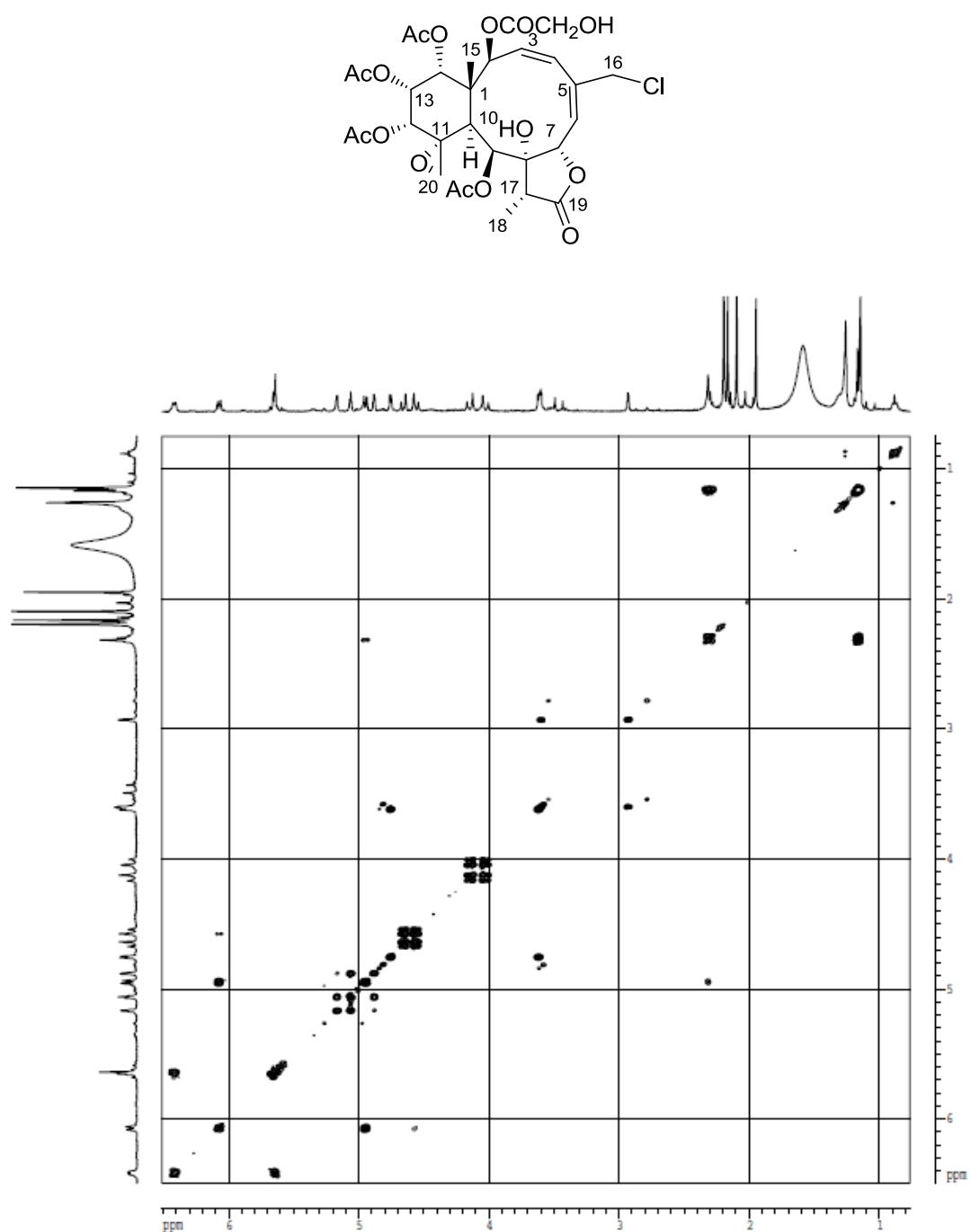
S9. HR-ESIMS spectrum of the new compound 2.

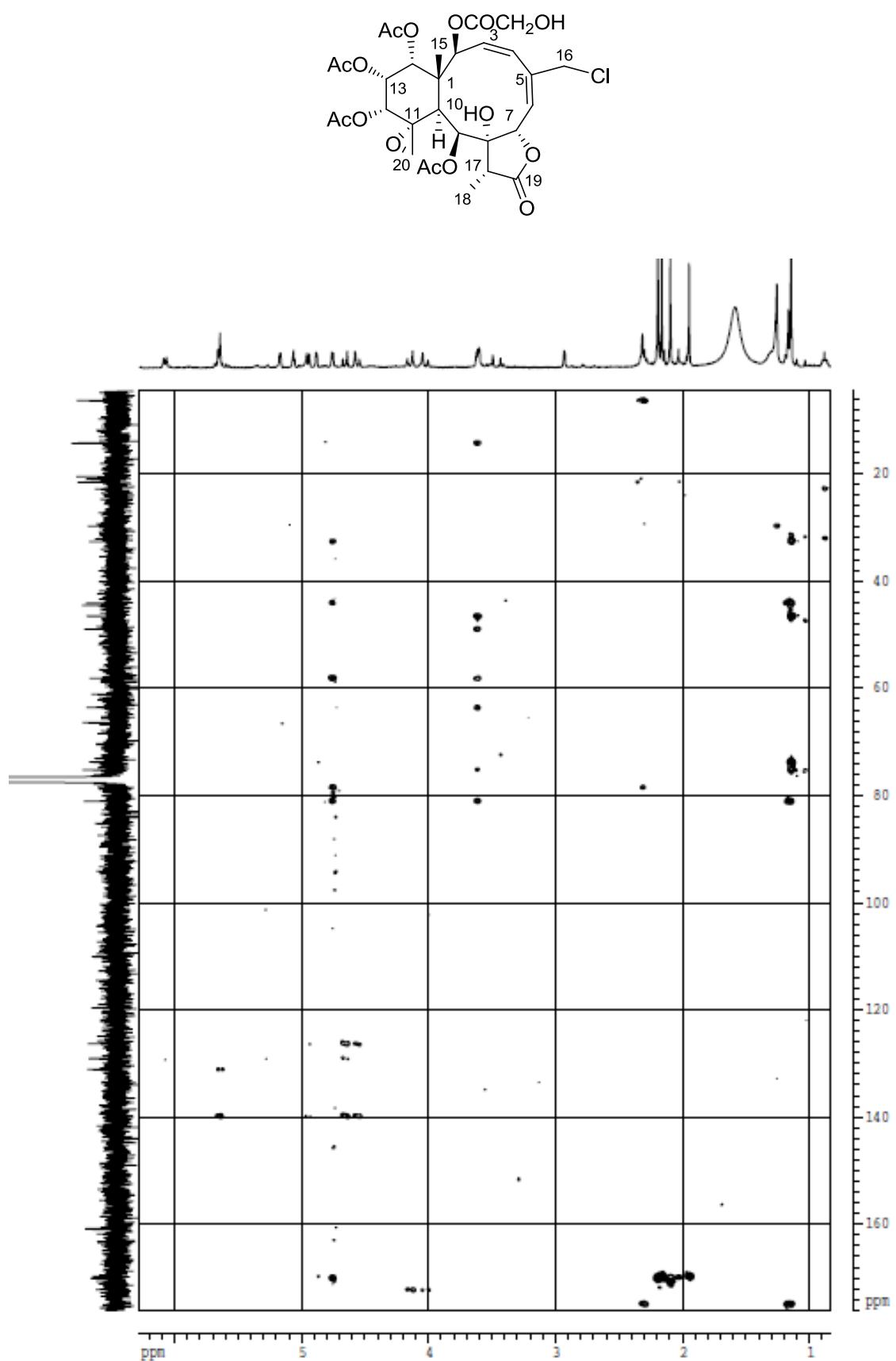
S10. ^1H NMR spectrum of the new compound **2**.

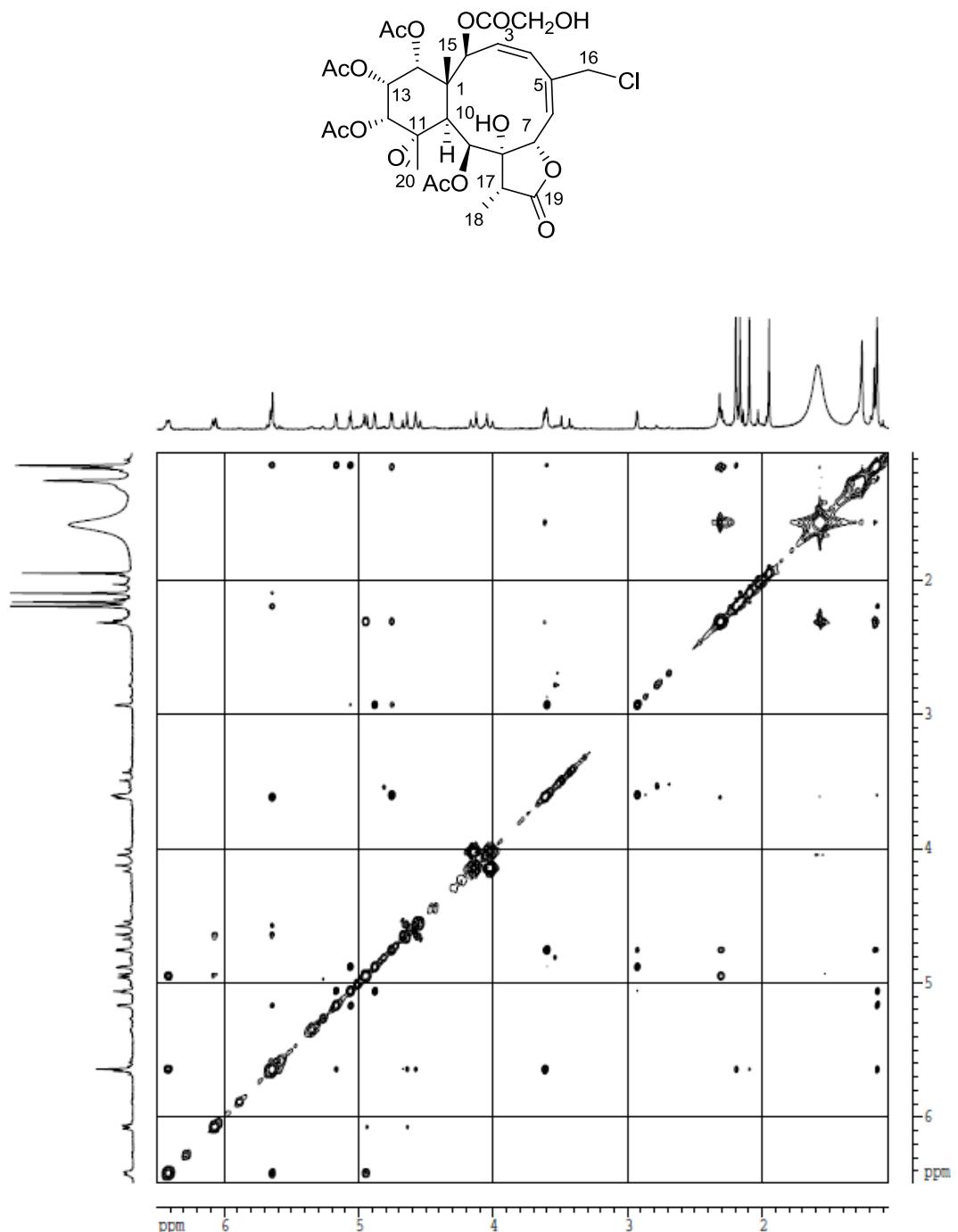
S11. ^{13}C NMR spectrum of the new compound **2**.

S12. DEPT spectrum of the new compound **2**.

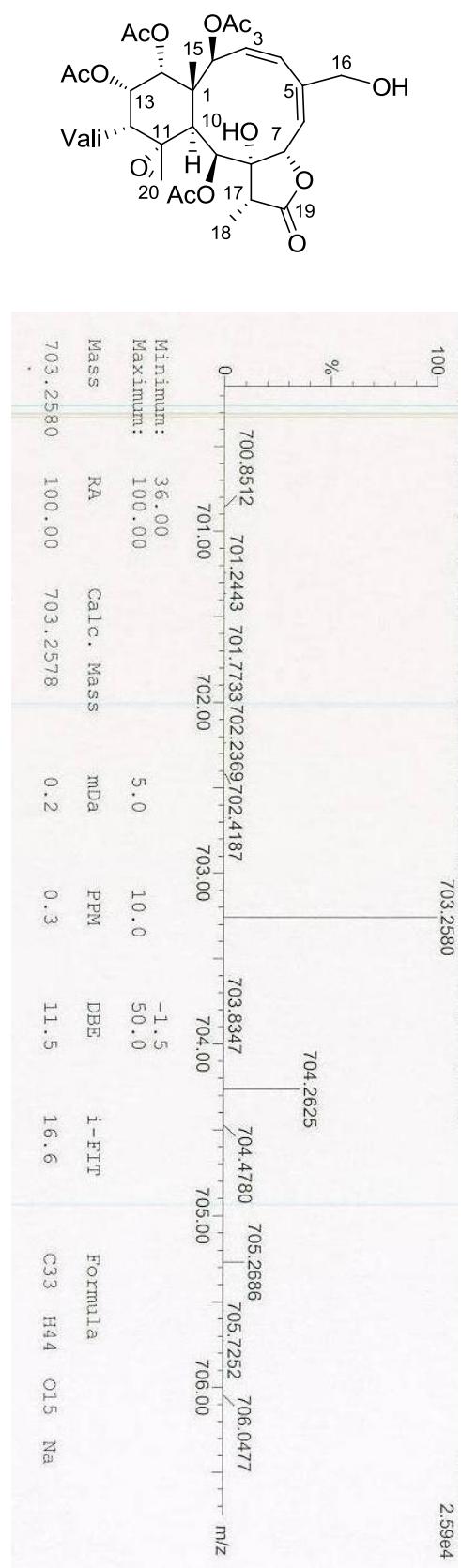
S13. HSQC spectrum of the new compound **2**.

S14. ^1H - ^1H COSY spectrum of the new compound **2**.

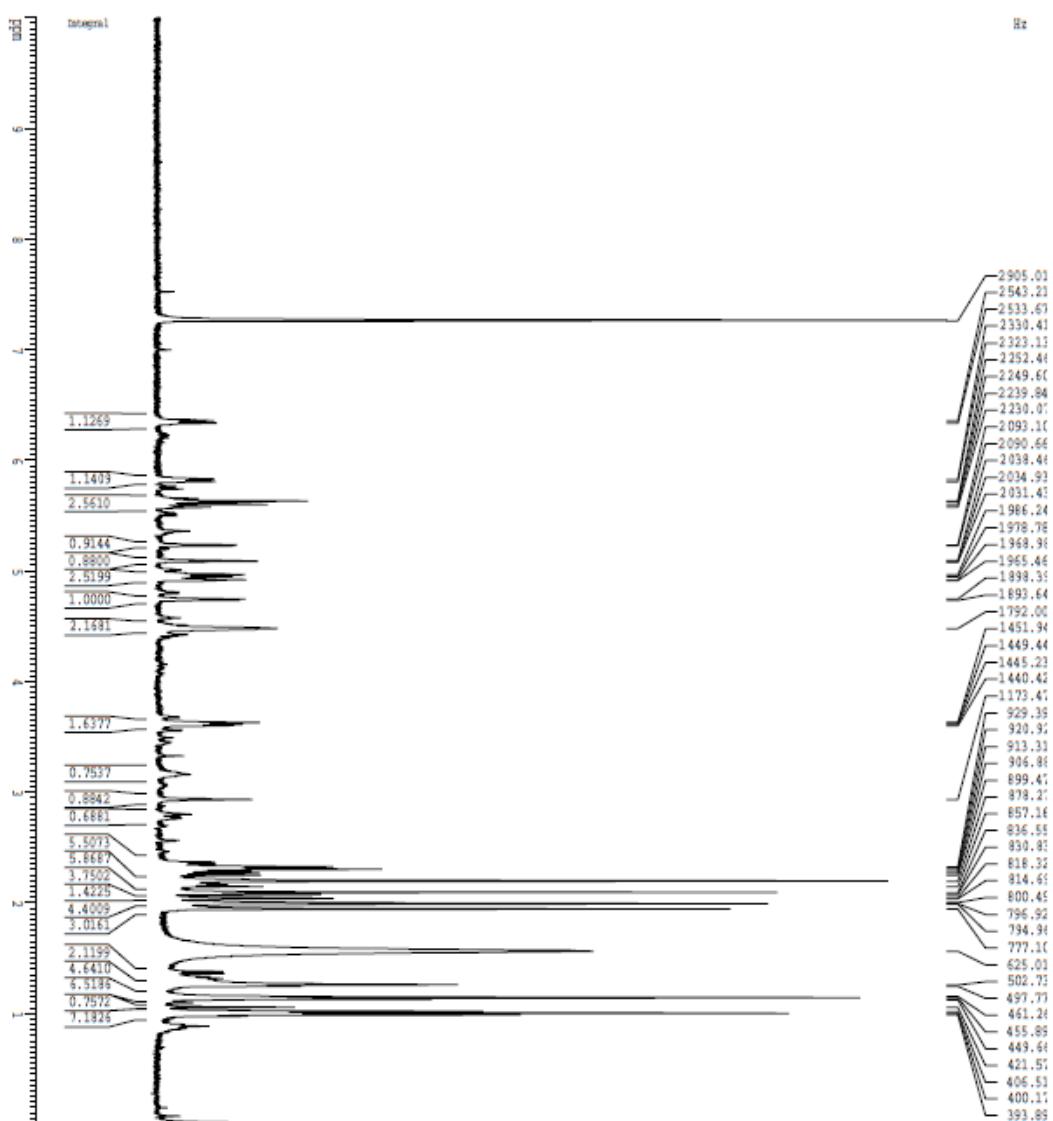
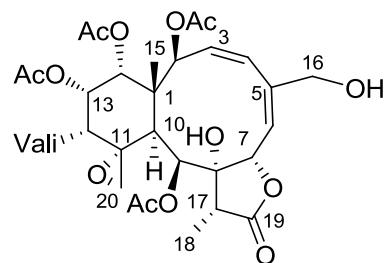
S15. HMBC spectrum of the new compound **2**.

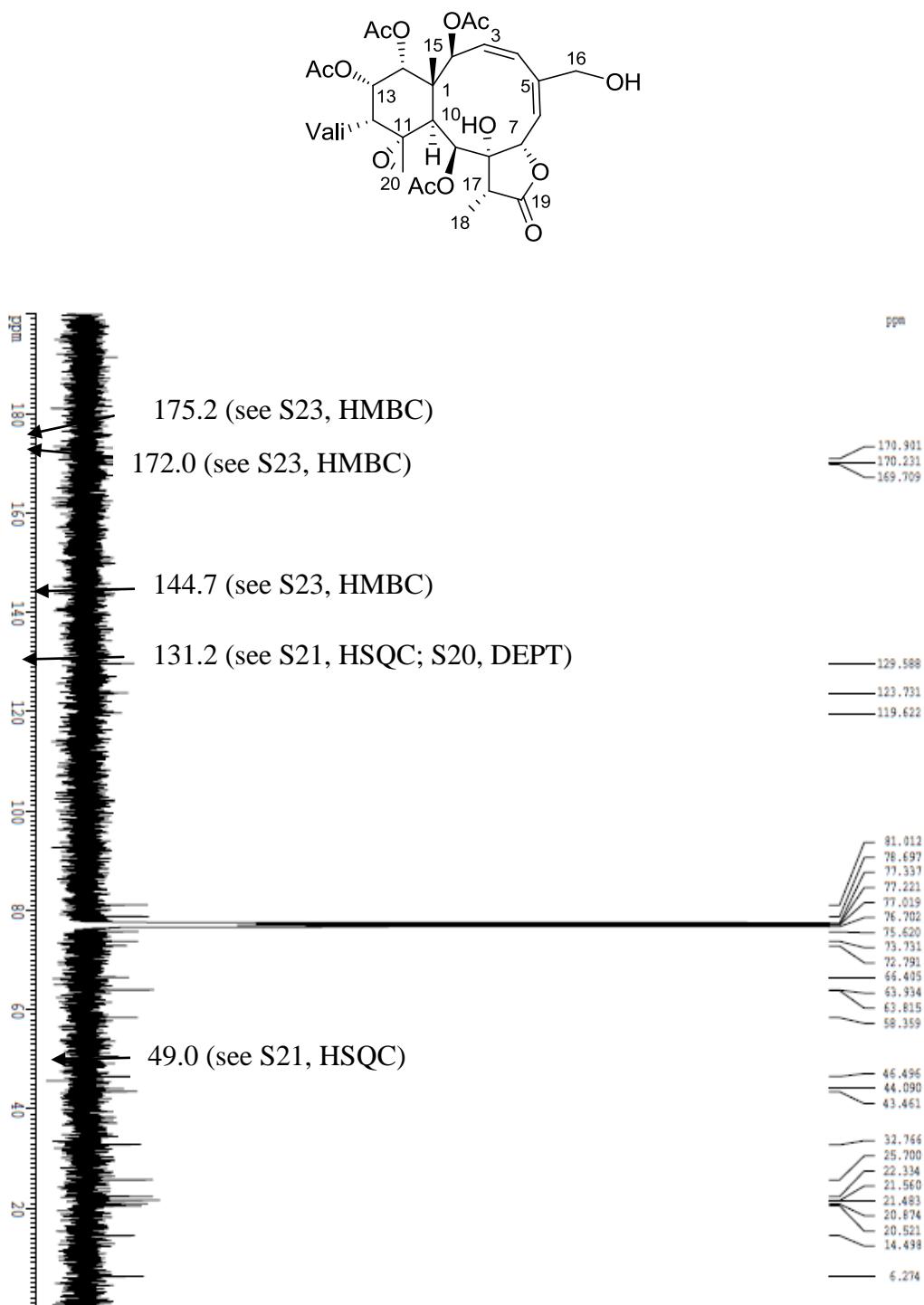
S16. NOESY spectrum of the new compound **2**.

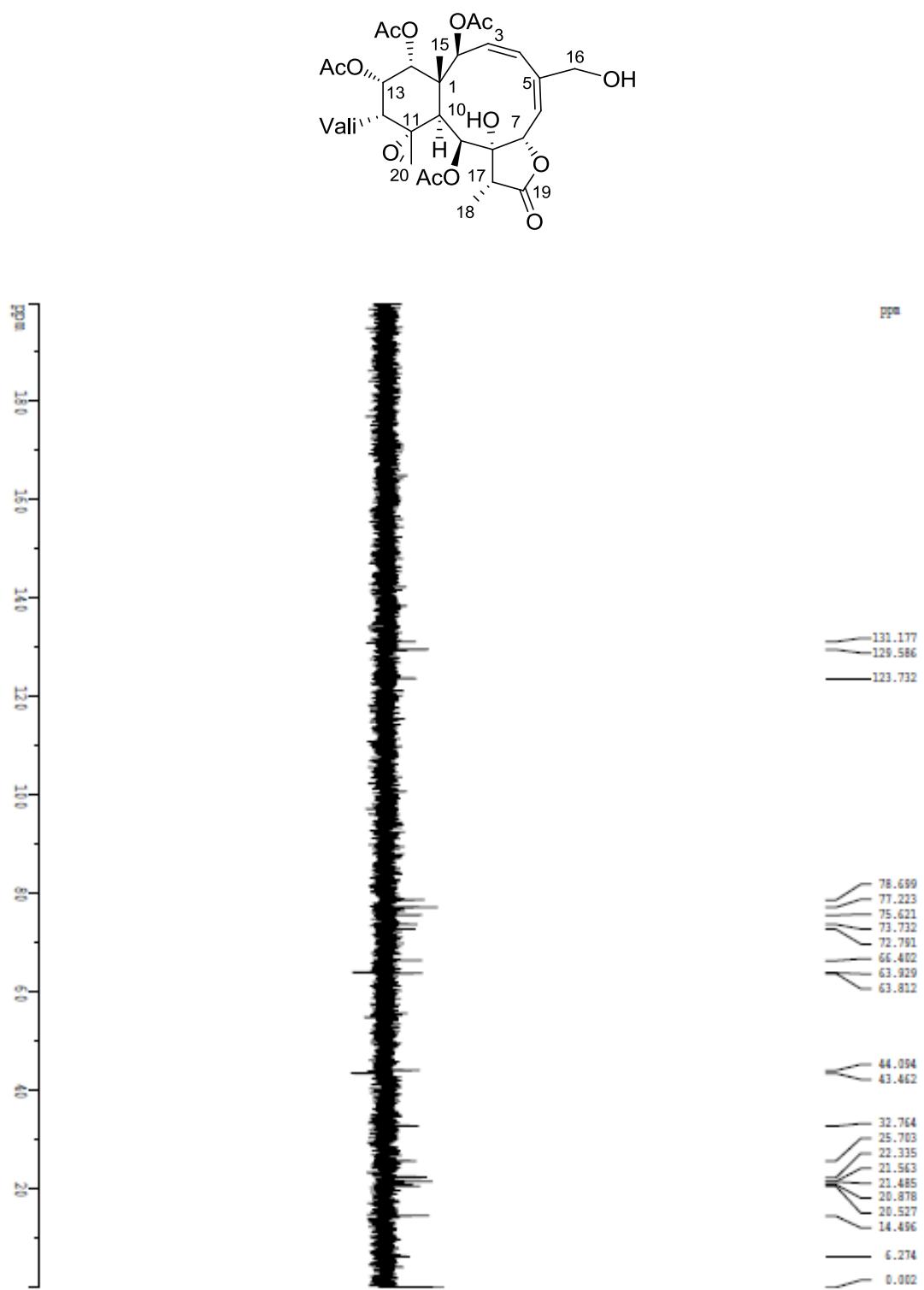
S17. HR-ESIMS spectrum of the new compound 3.

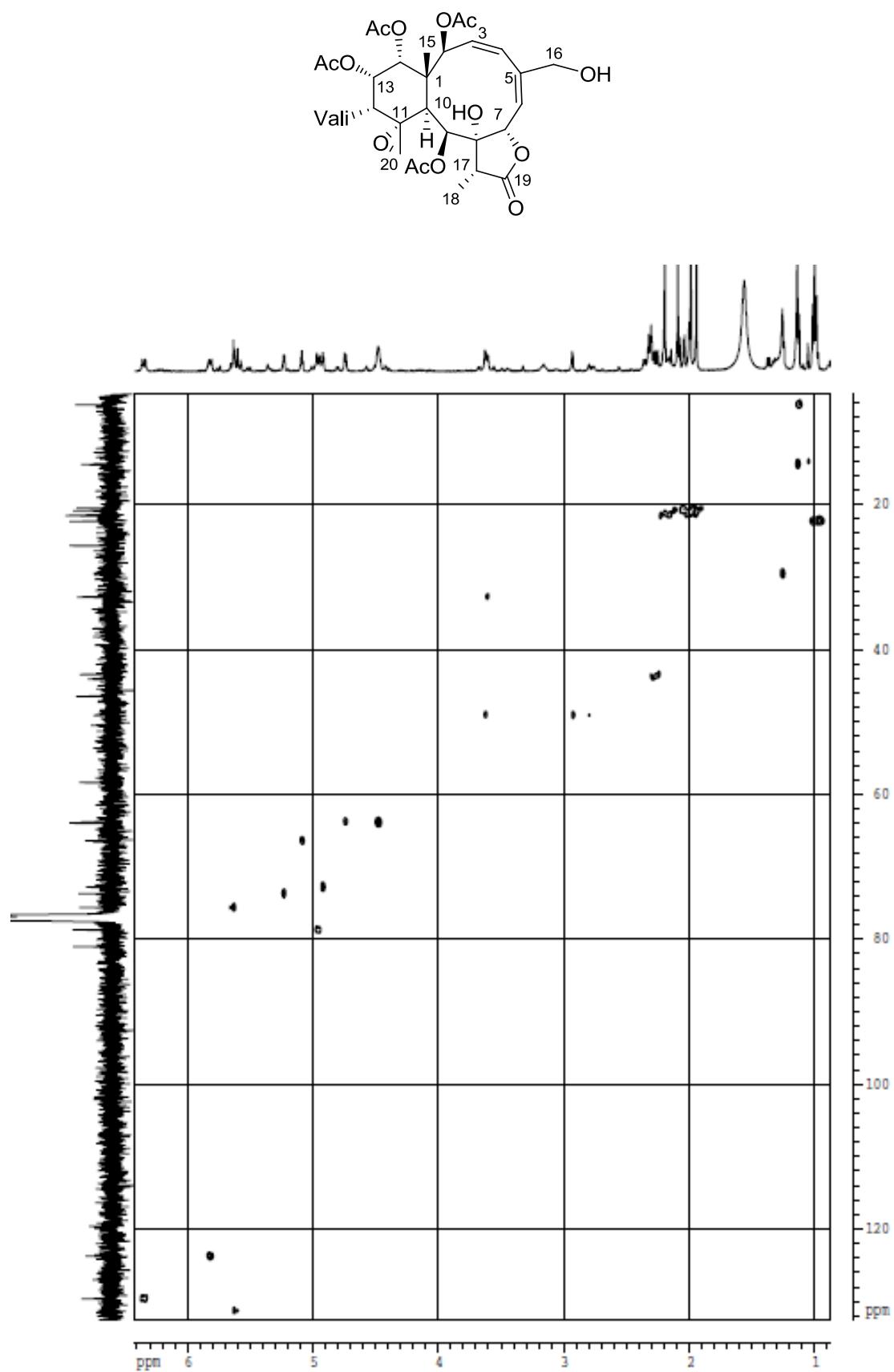


S18. ^1H NMR spectrum of the new compound **3**.

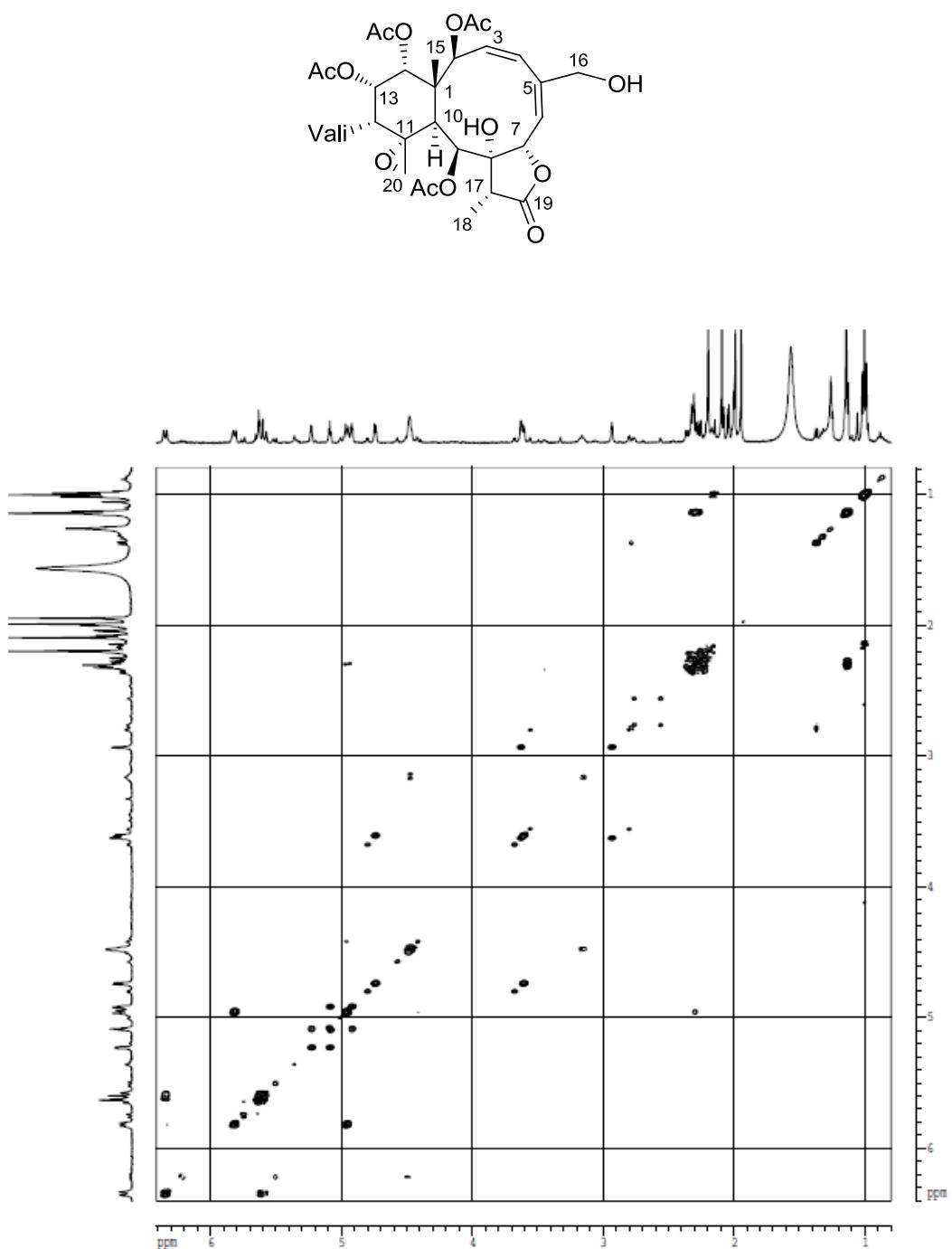


S19. ^{13}C NMR spectrum of the new compound **3**.

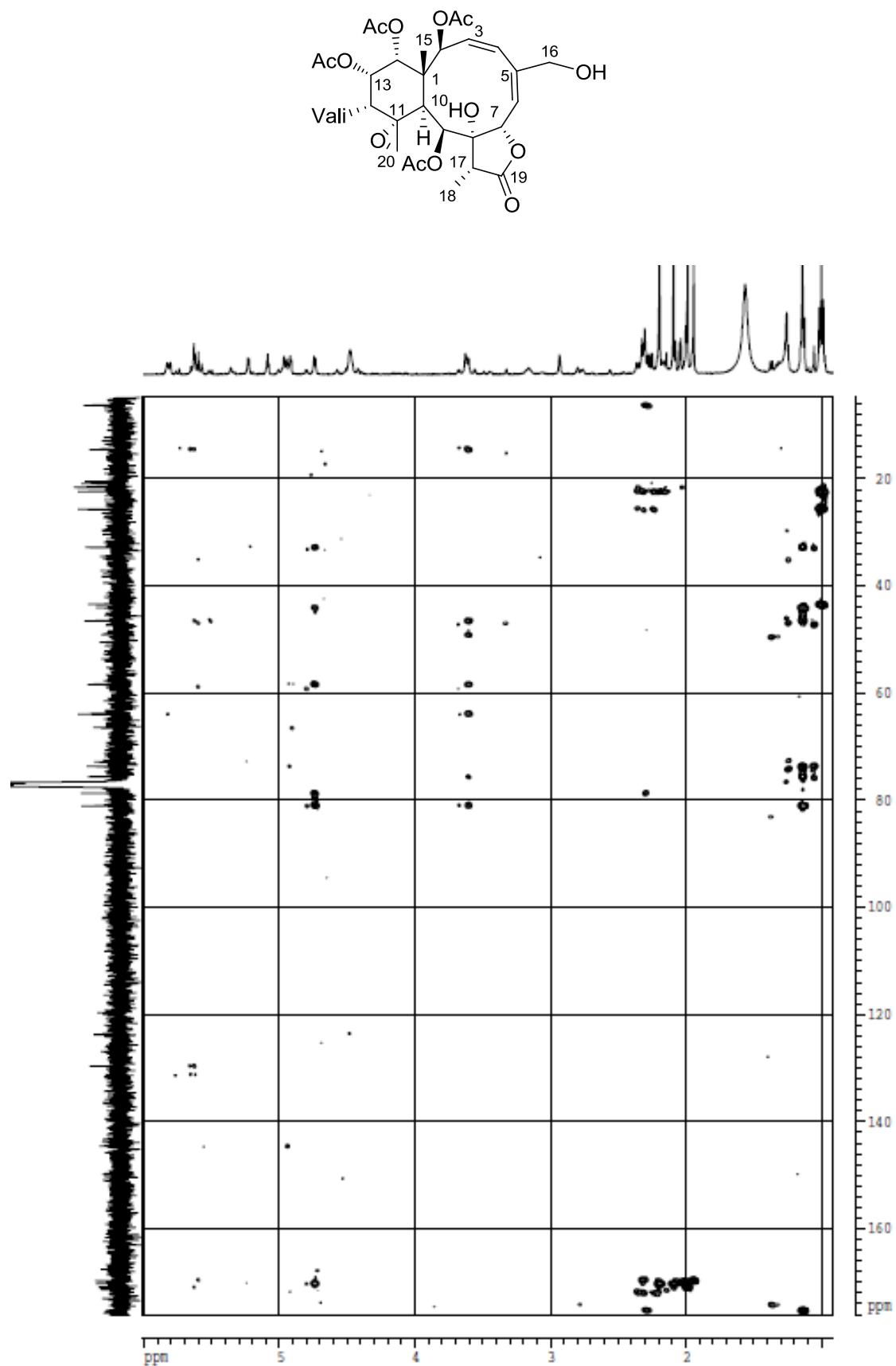
S20. DEPT spectrum of the new compound **3**.

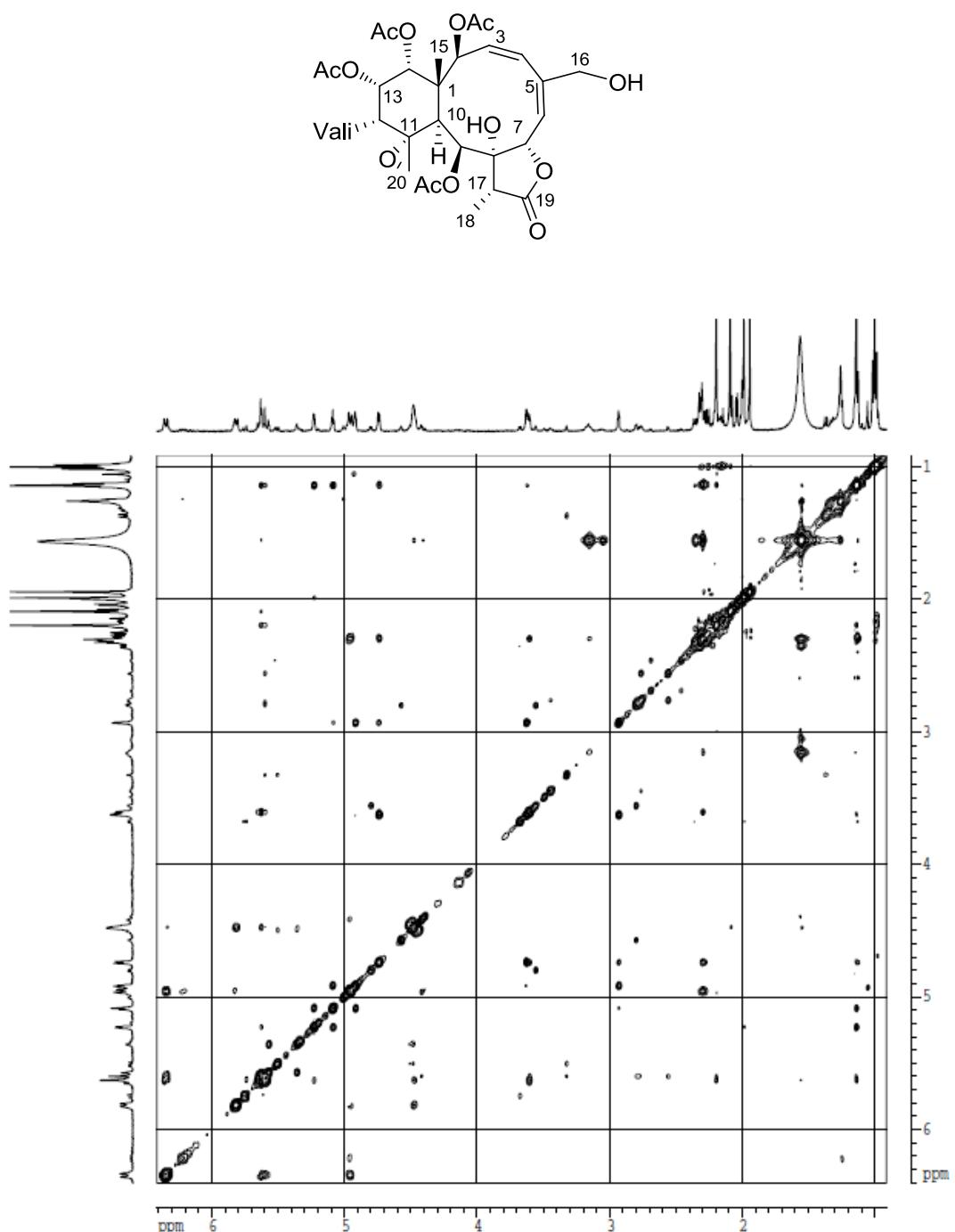
S21. HSQC spectrum of the new compound **3**.

S22. ^1H - ^1H COSY spectrum of the new compound 3.

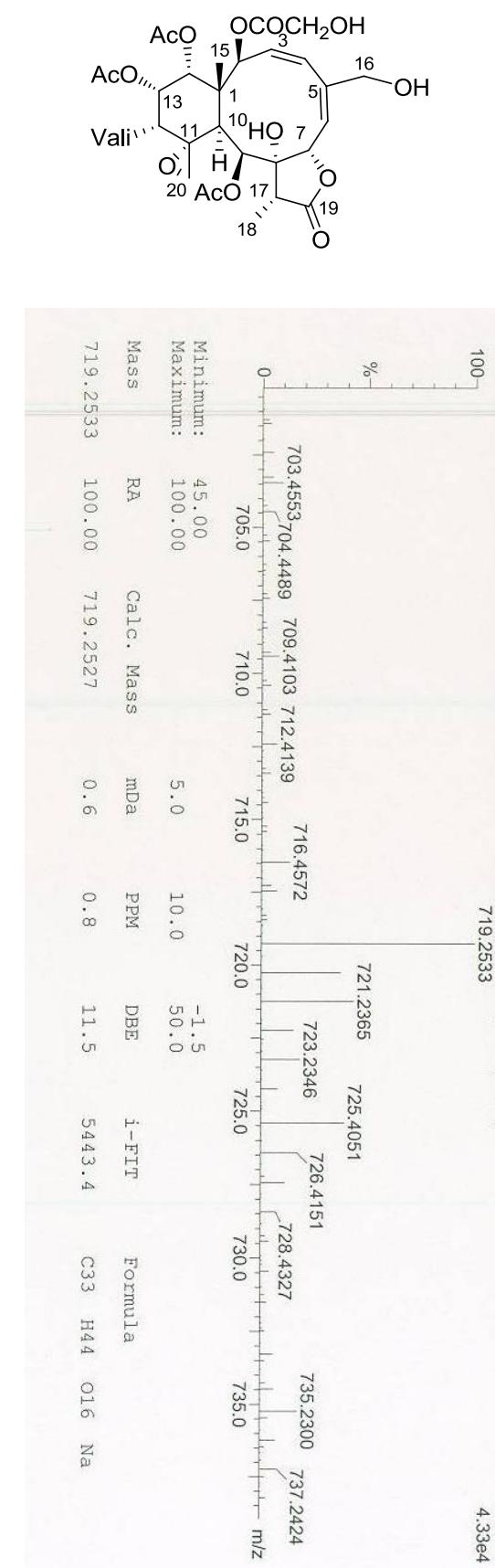


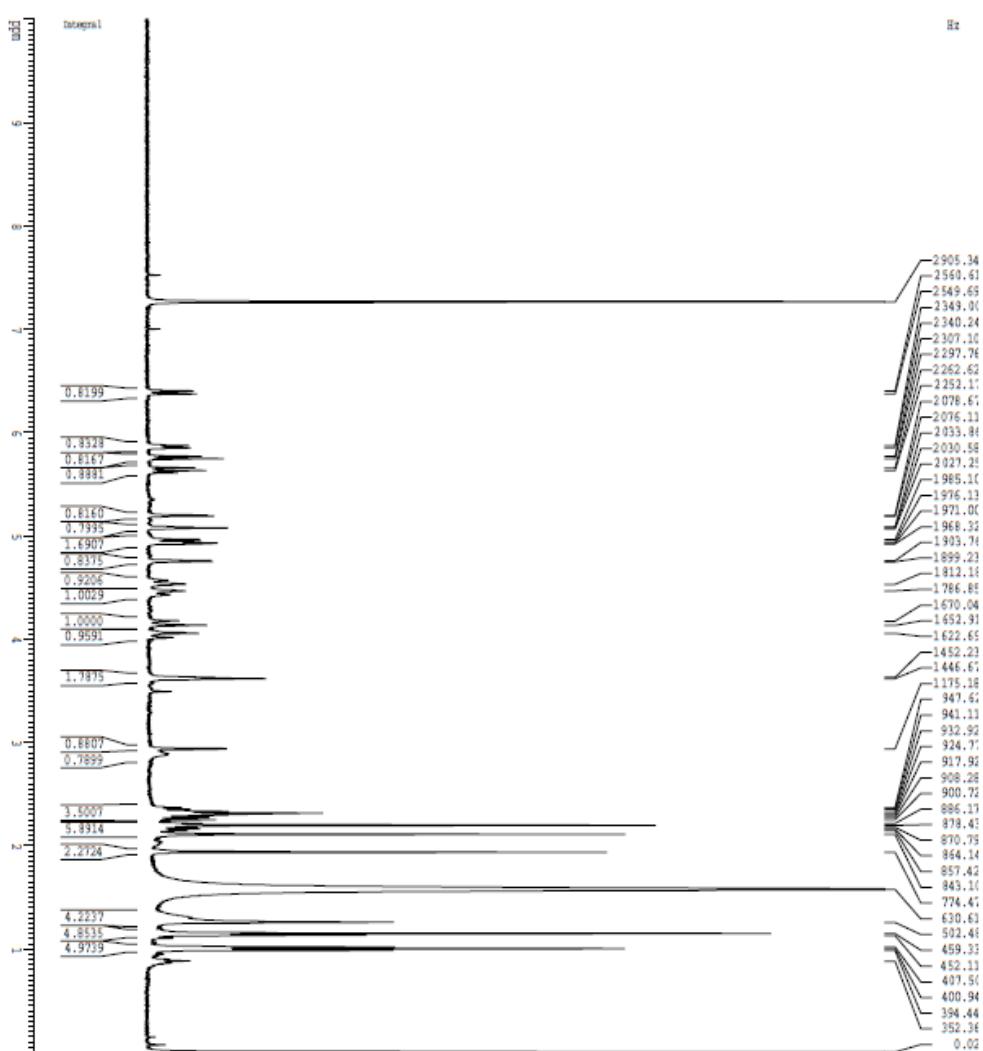
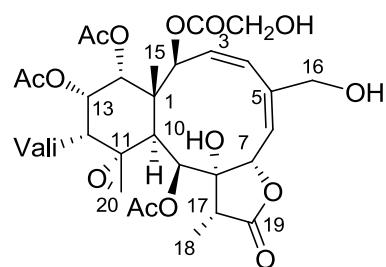
S23. HMBC spectrum of the new compound 3.

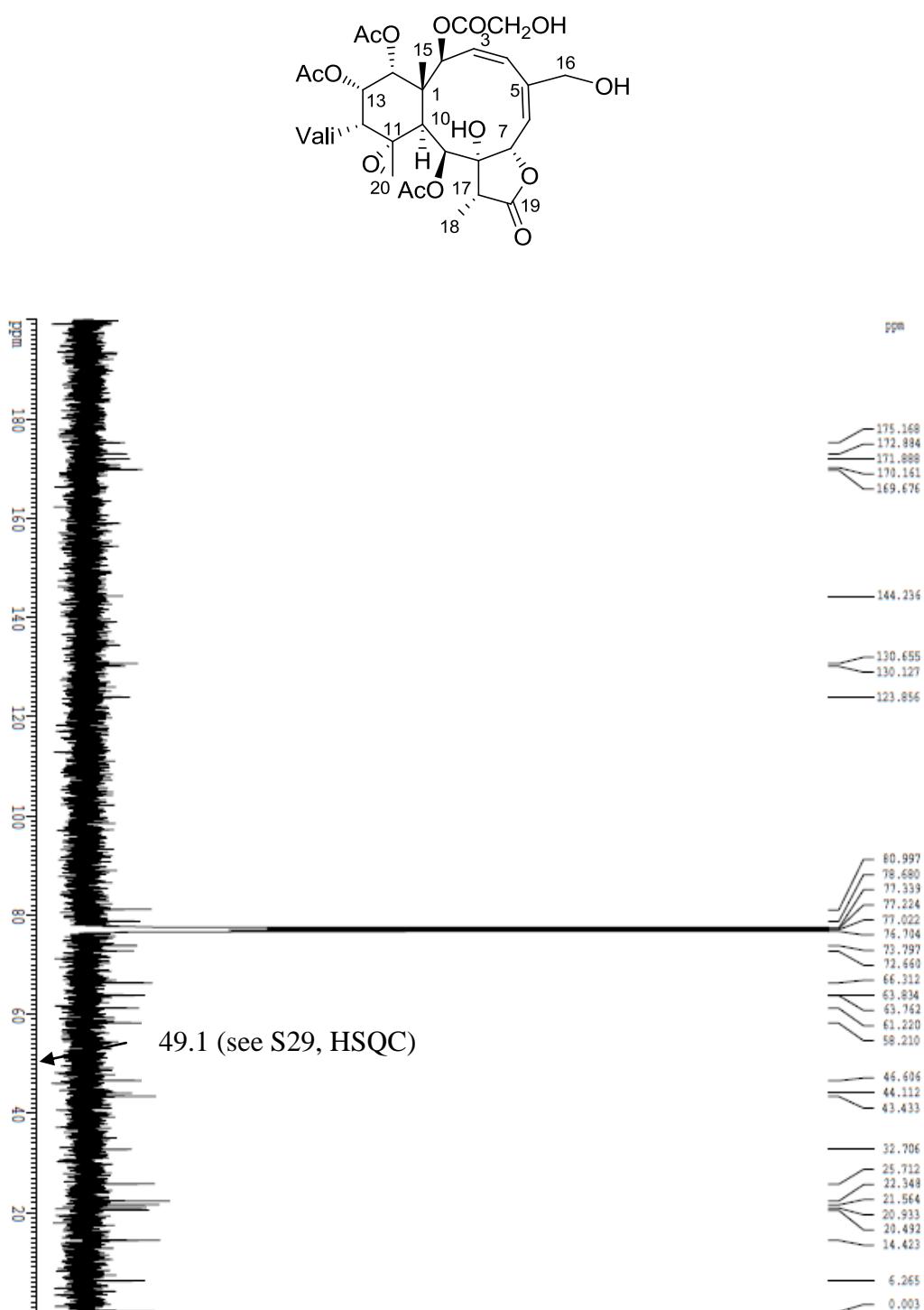


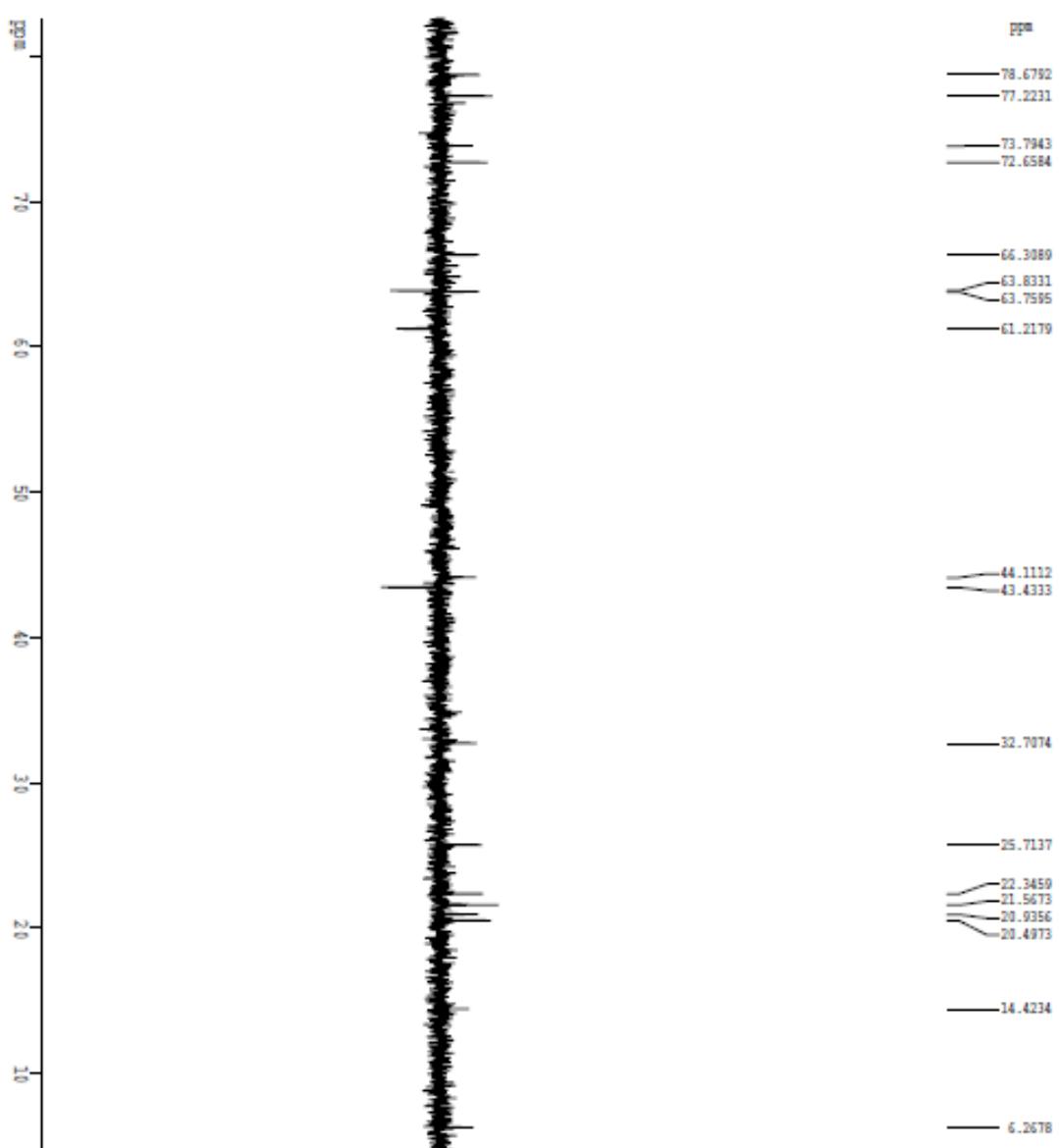
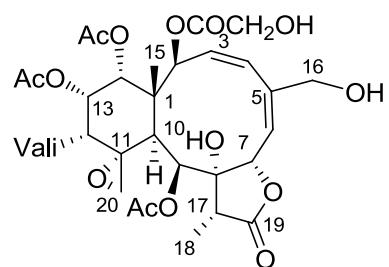
S24. NOESY spectrum of the new compound **3**.

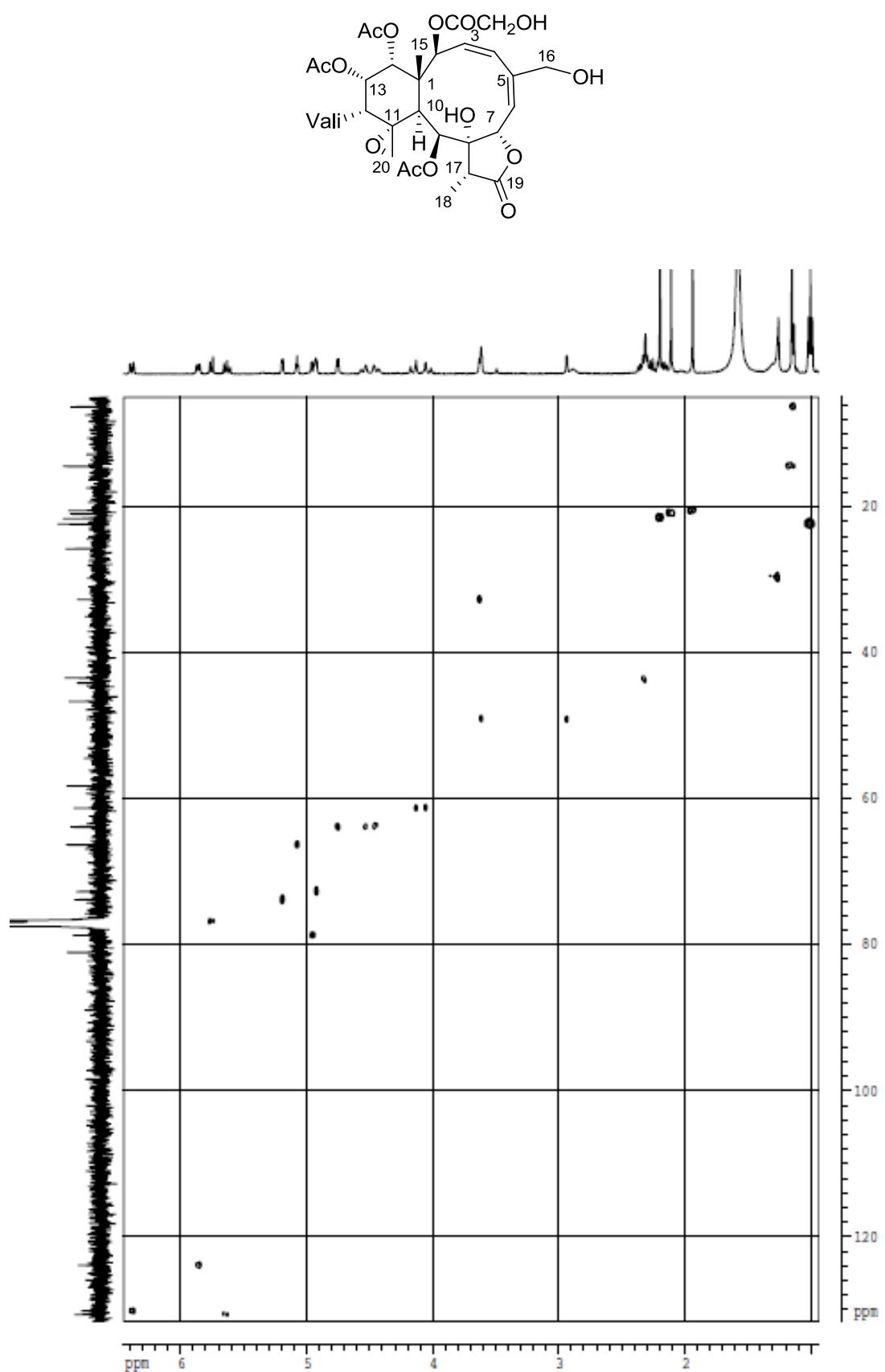
S25. HR-ESIMS spectrum of the new compound 4.

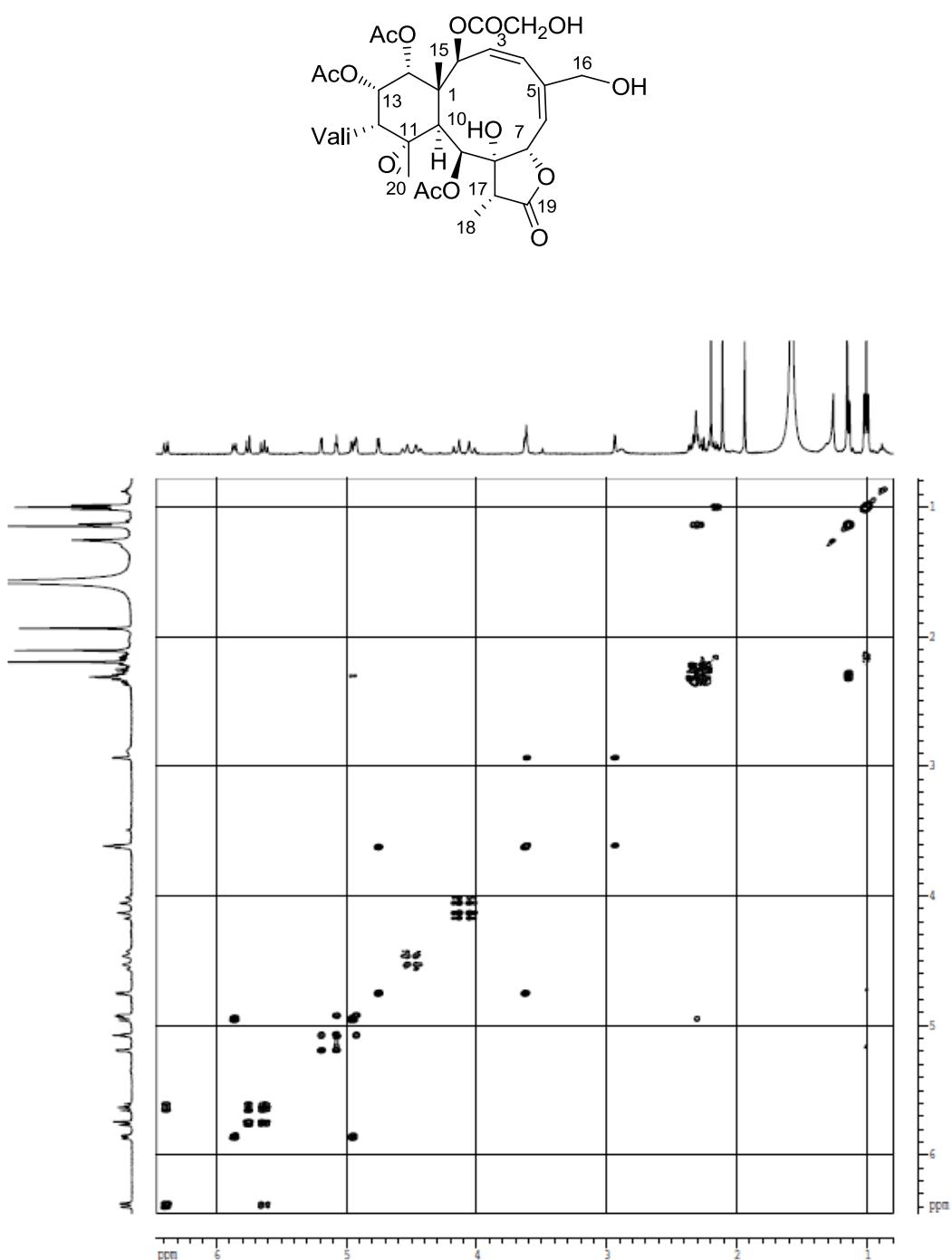


S26. ^1H NMR spectrum of the new compound **4**.

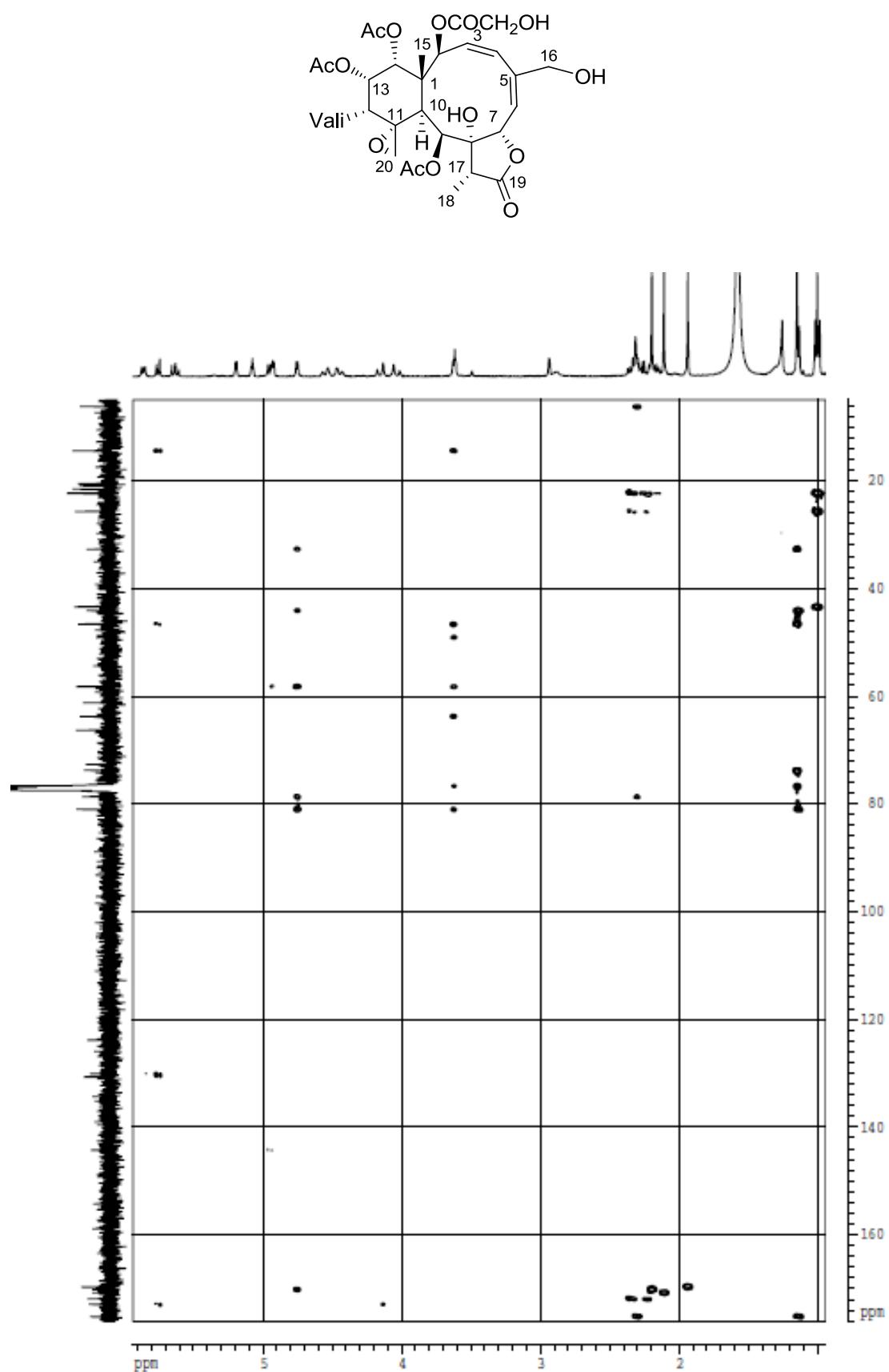
S27. ^{13}C NMR spectrum of the new compound 4.

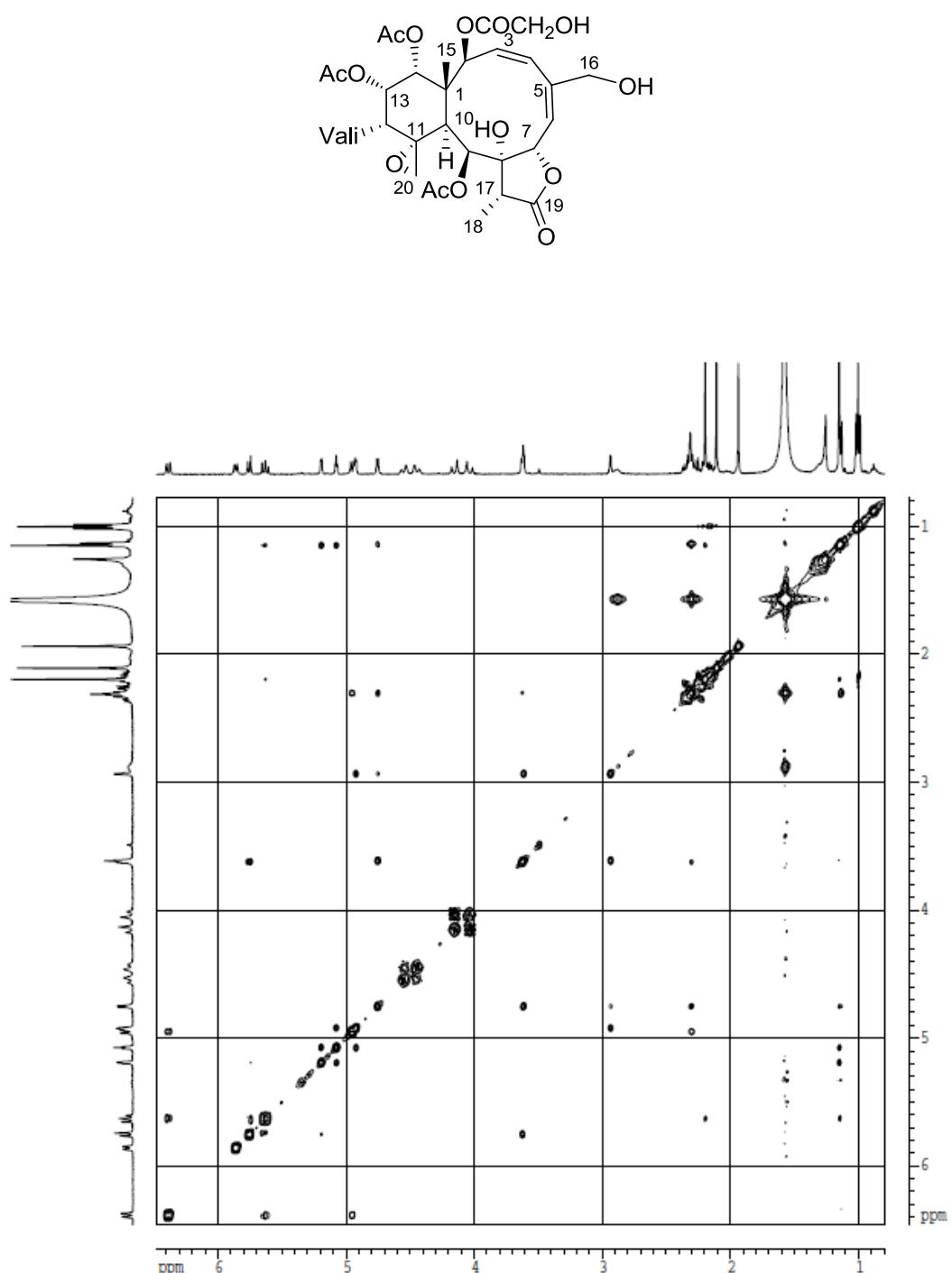
S28. DEPT spectrum of the new compound **4**.

S29. HSQC spectrum of the new compound **4**.

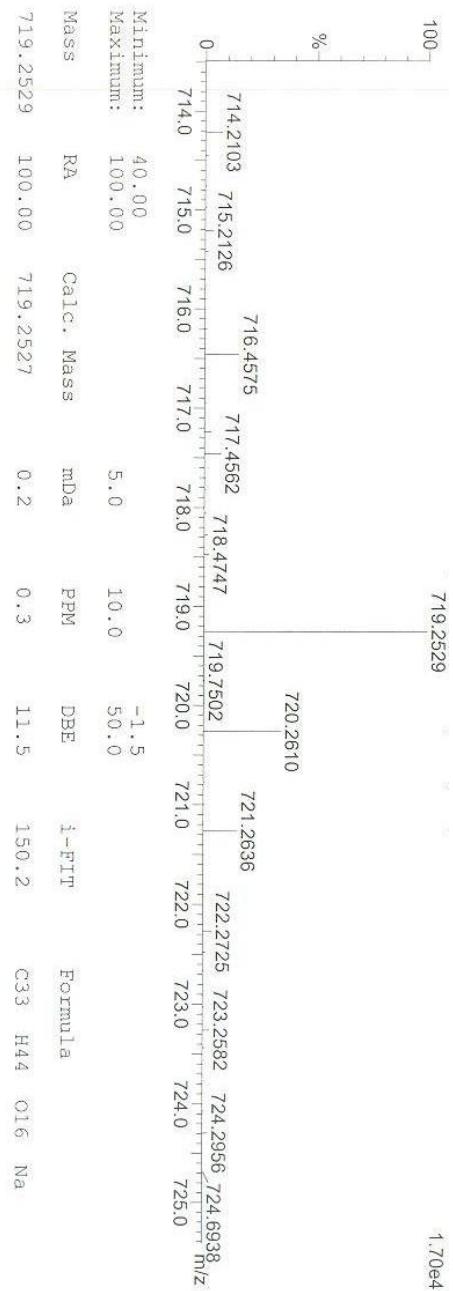
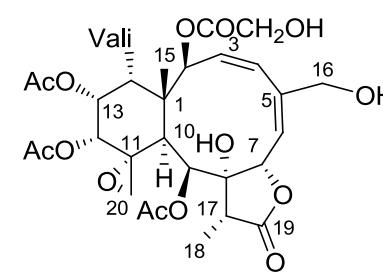
S30. ^1H - ^1H COSY spectrum of the new compound **4**.

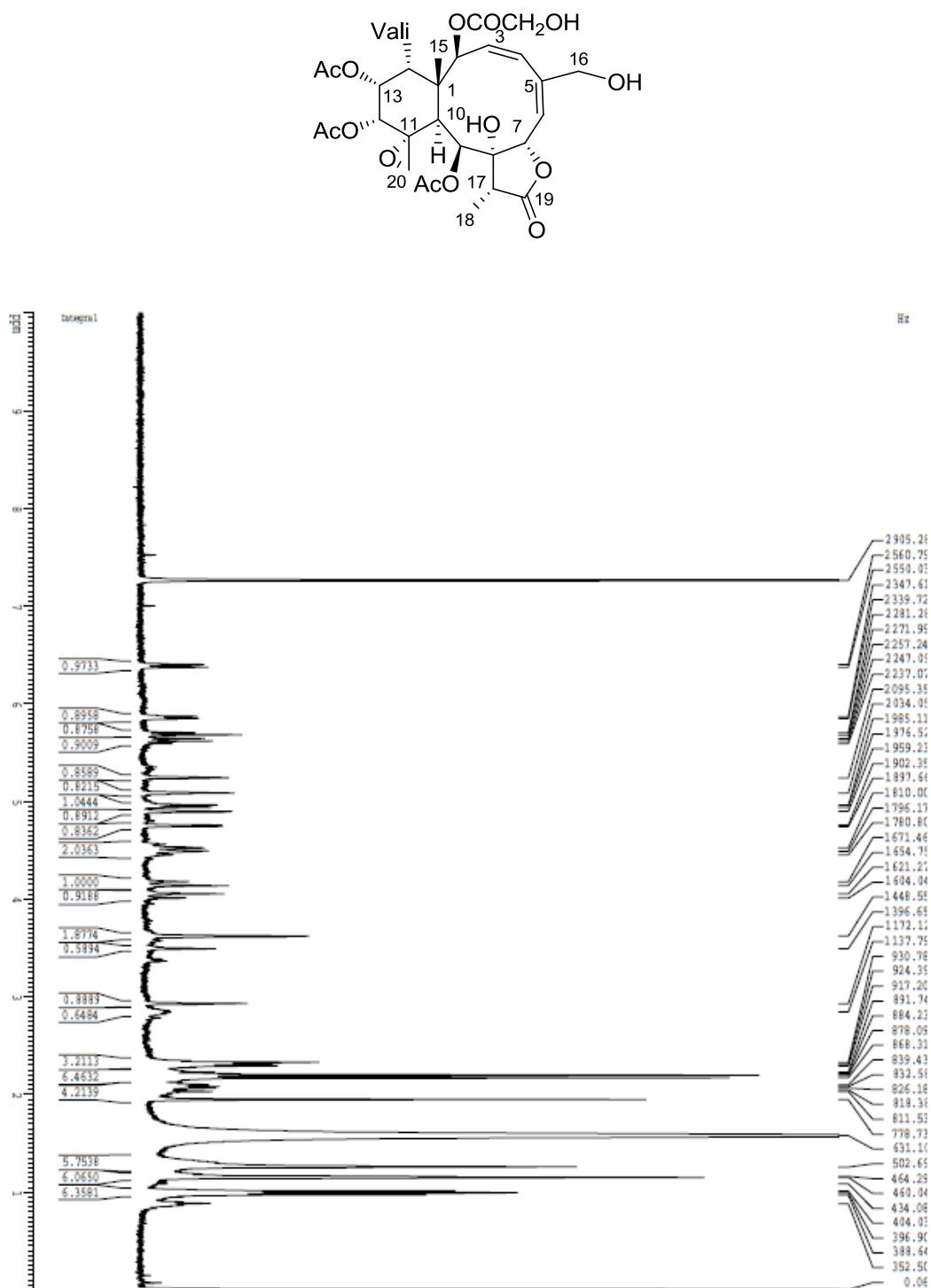
S31. HMBC spectrum of the new compound 4.

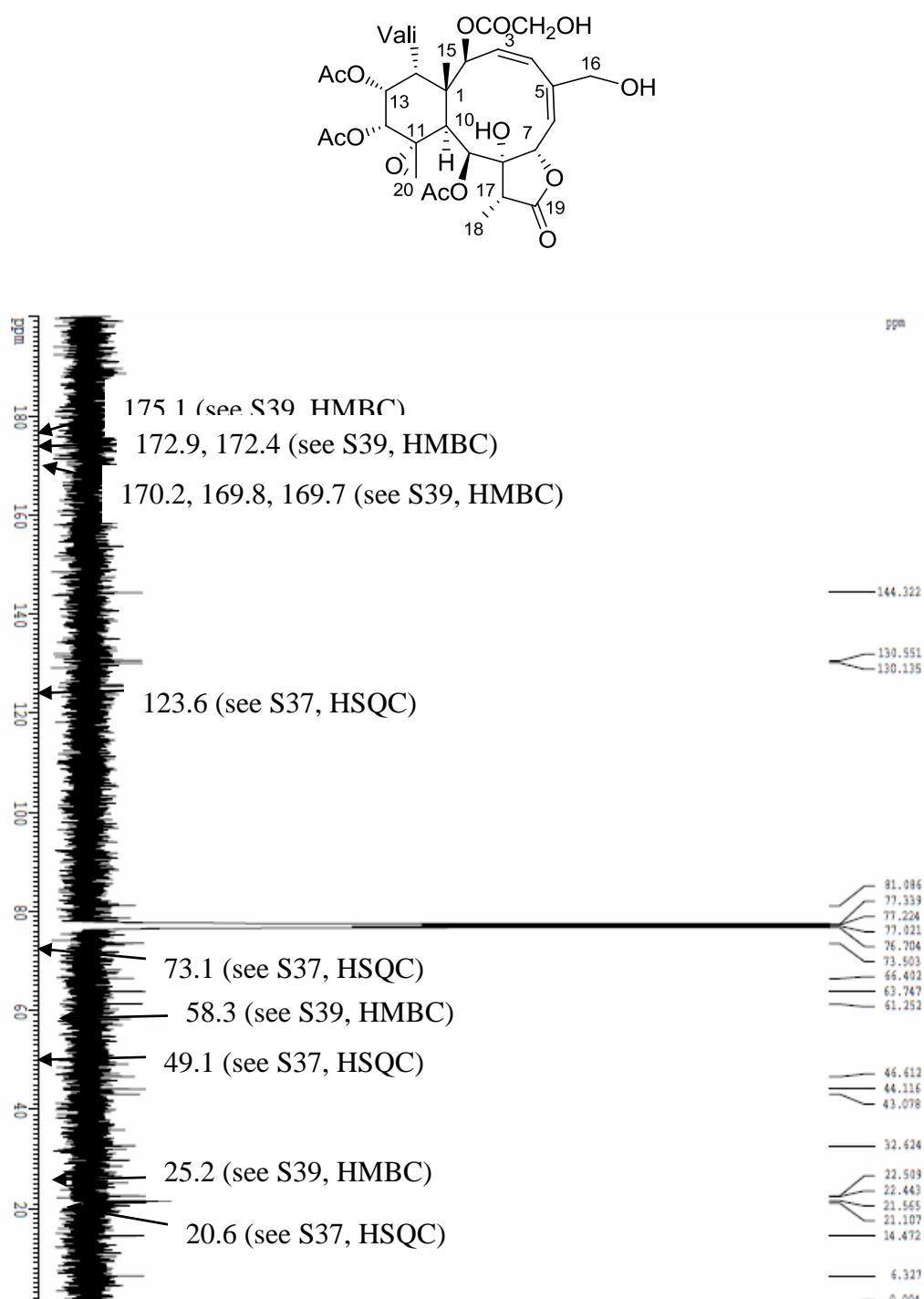


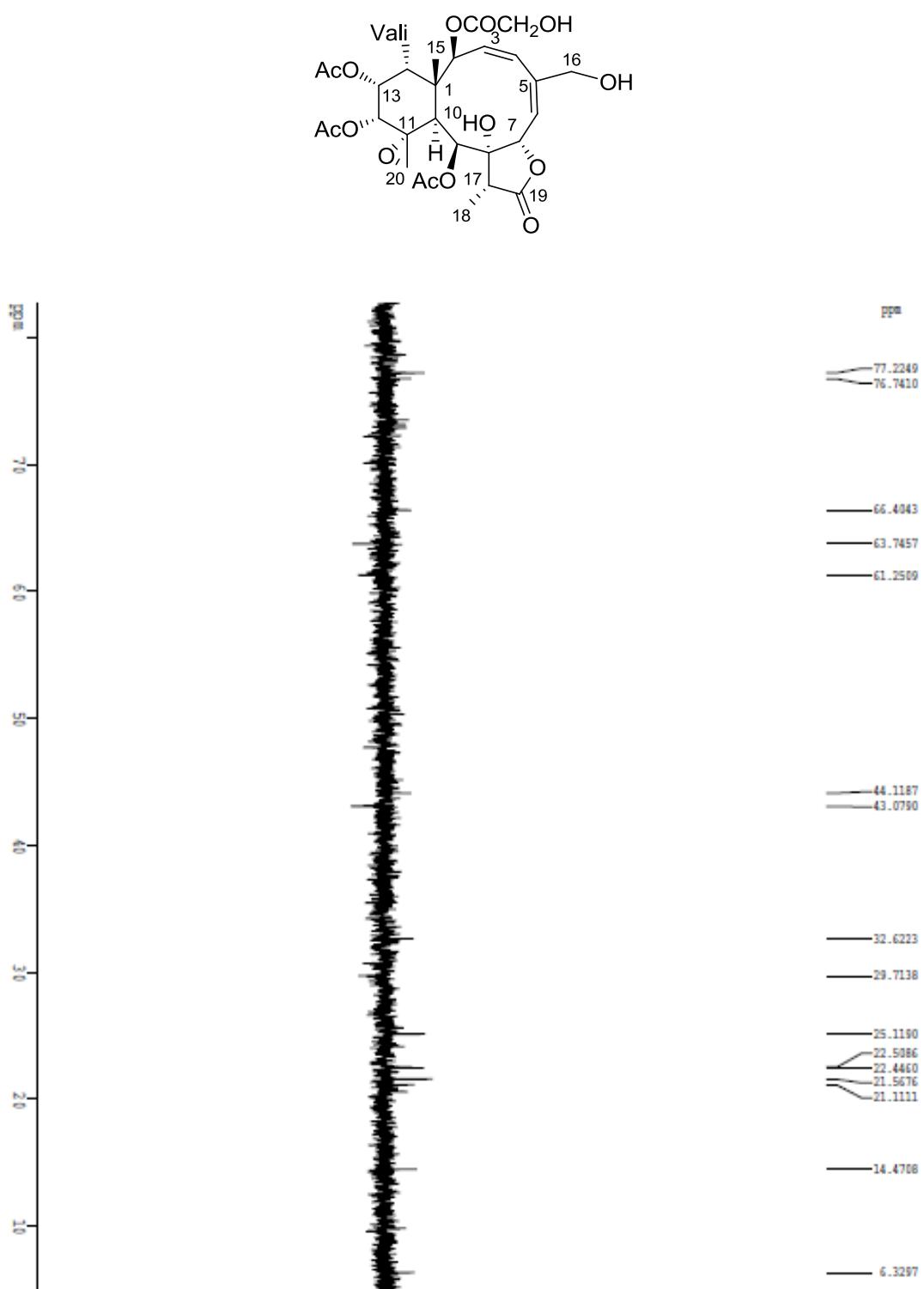
S32. NOESY spectrum of the new compound **4**.

S33. HR-ESIMS spectrum of the new compound 5.

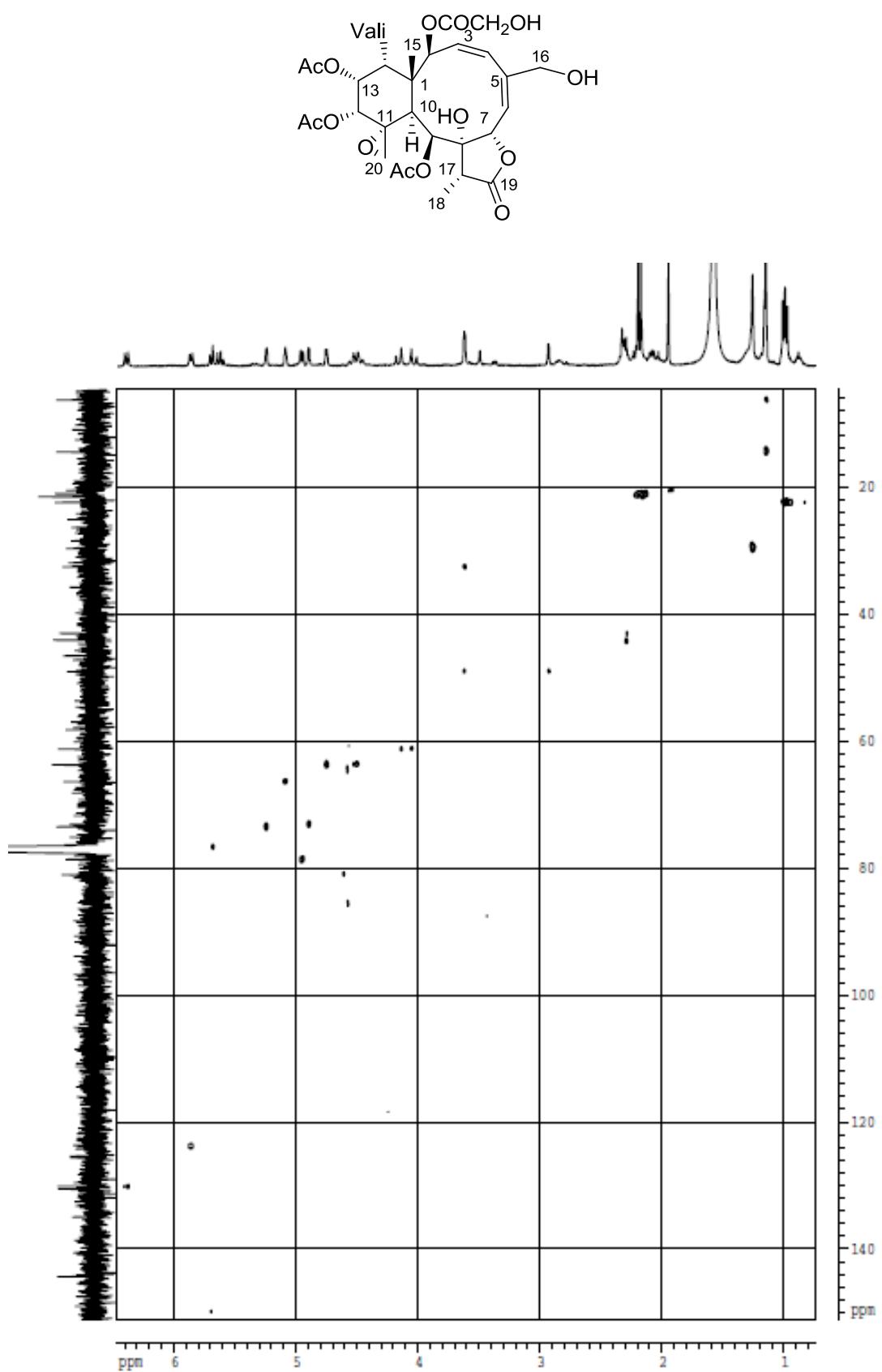


S34. ^1H NMR spectrum of the new compound **5**.

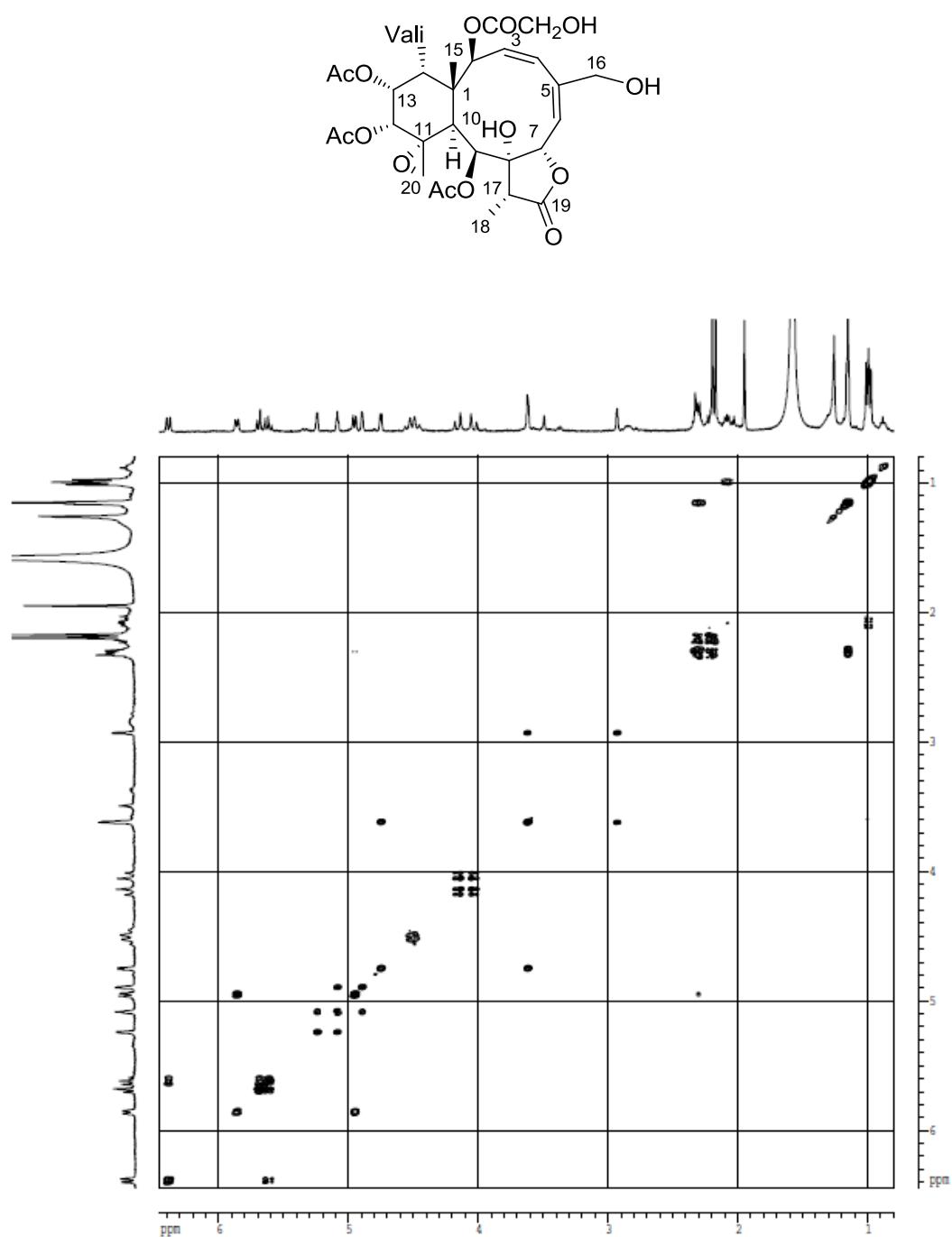
S35. ^{13}C NMR spectrum of the new compound **5**.

S36. DEPT spectrum of the new compound **5**.

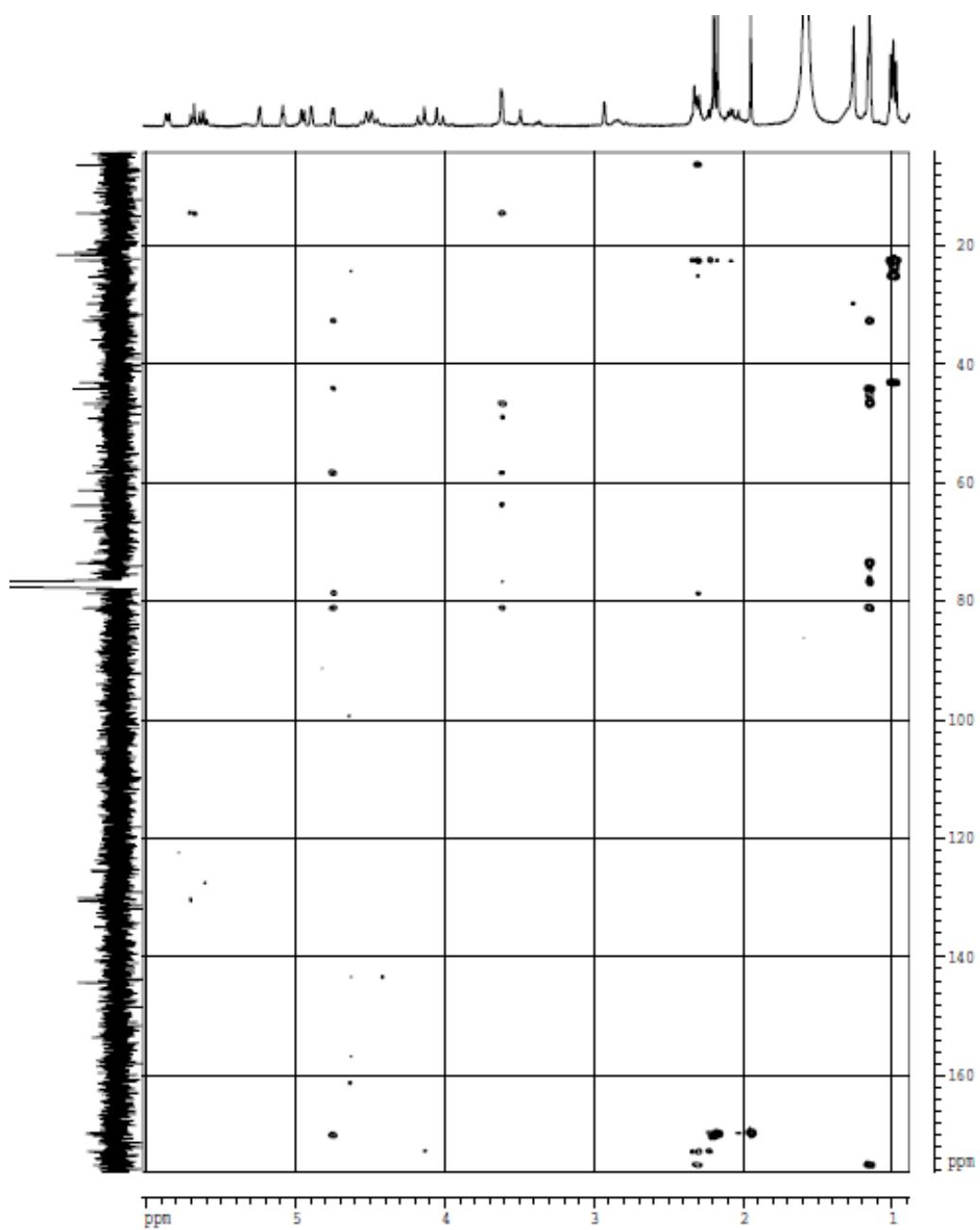
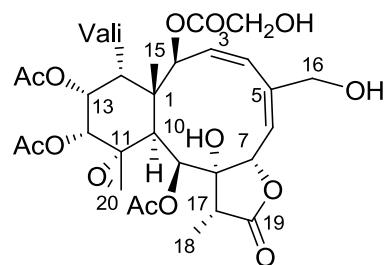
S37. HSQC spectrum of the new compound 5.

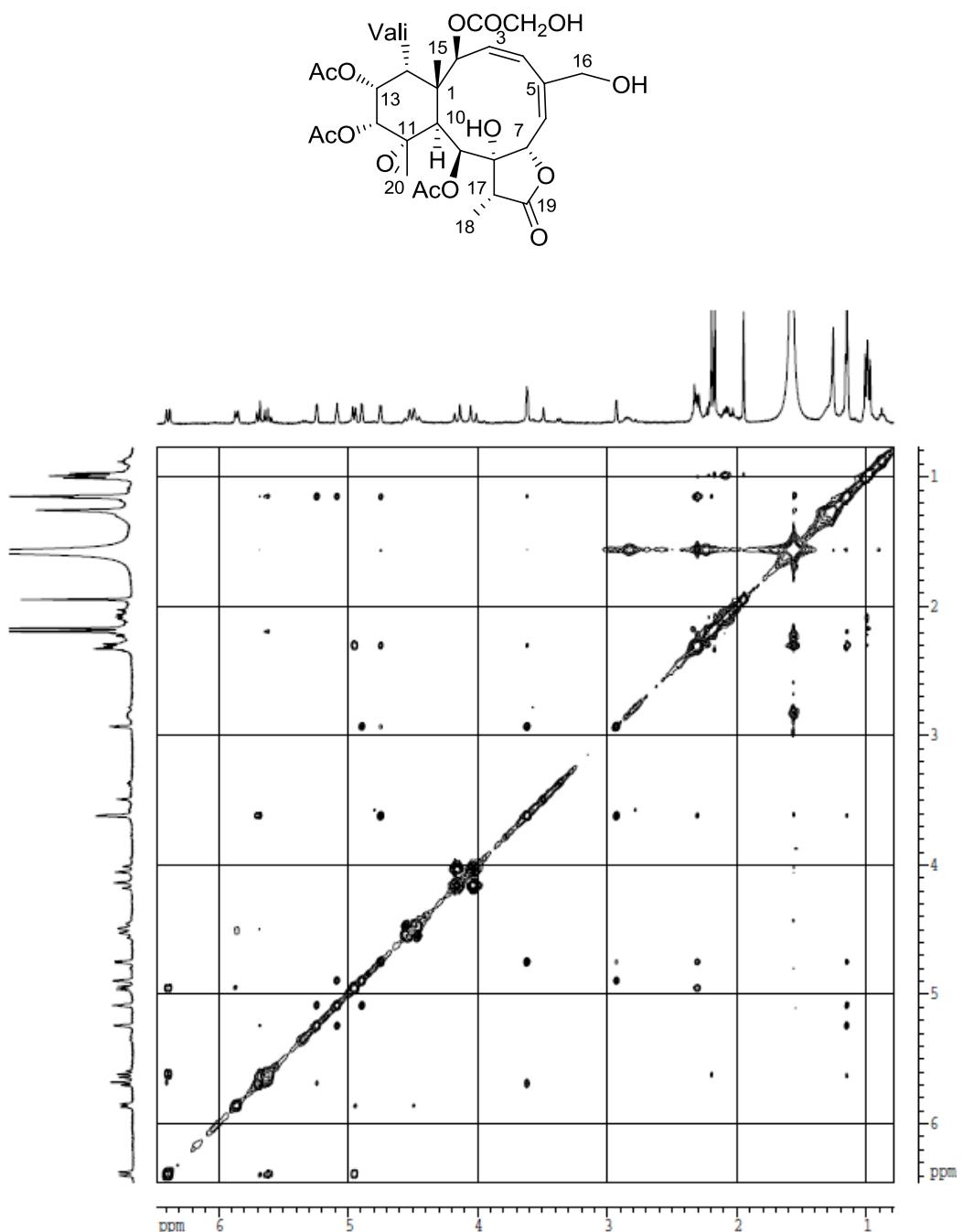


S38. ^1H - ^1H COSY spectrum of the new compound 5.

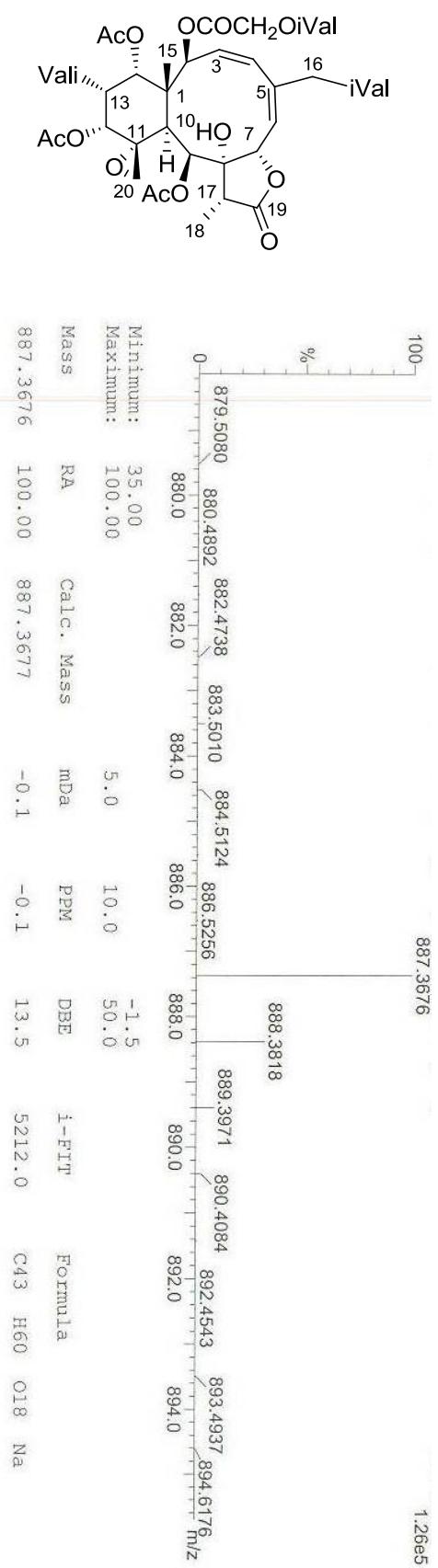


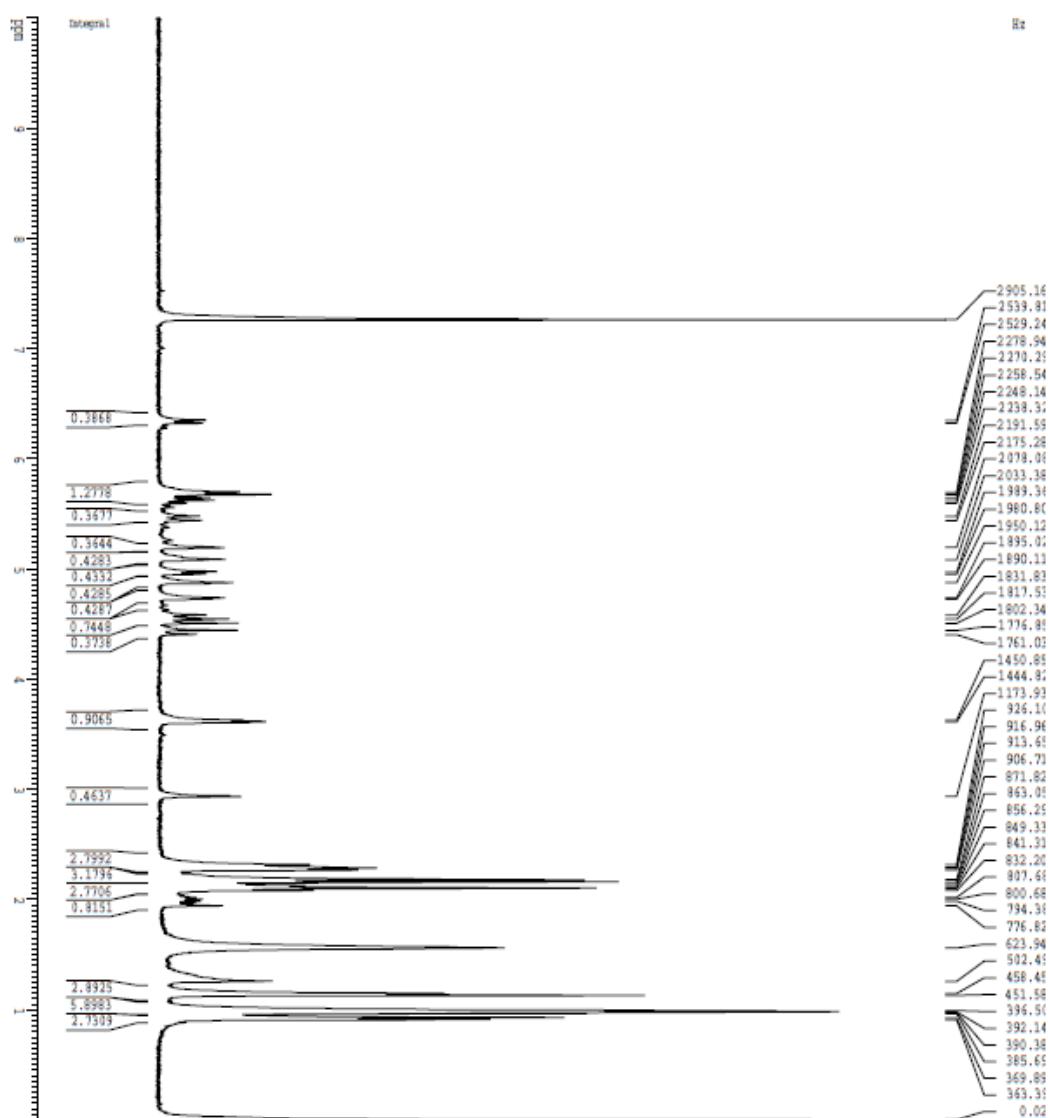
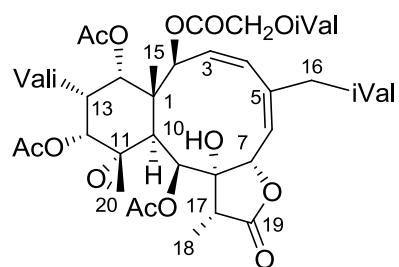
S39. HMBC spectrum of the new compound 5.

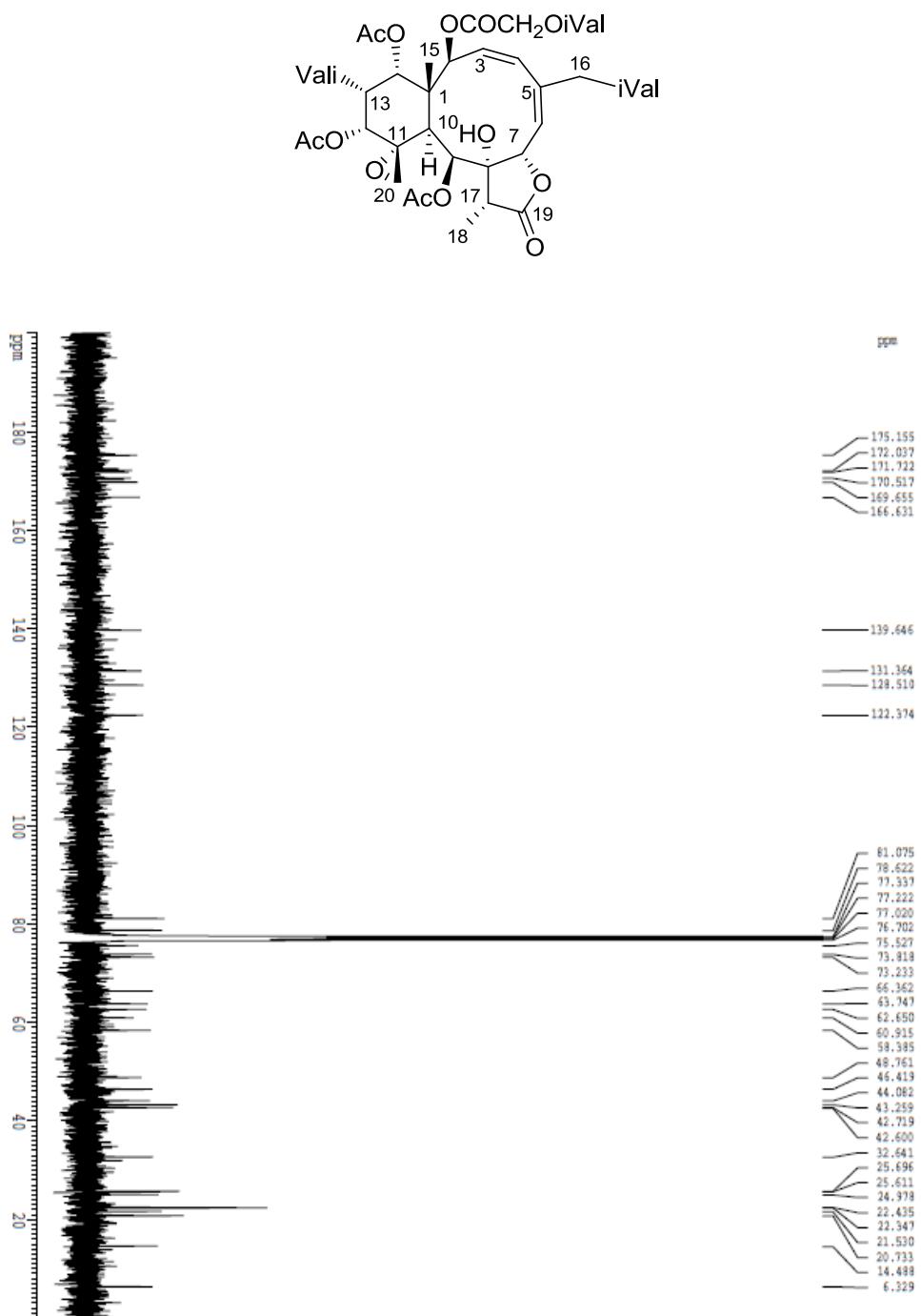


S40. NOESY spectrum of the new compound **5**.

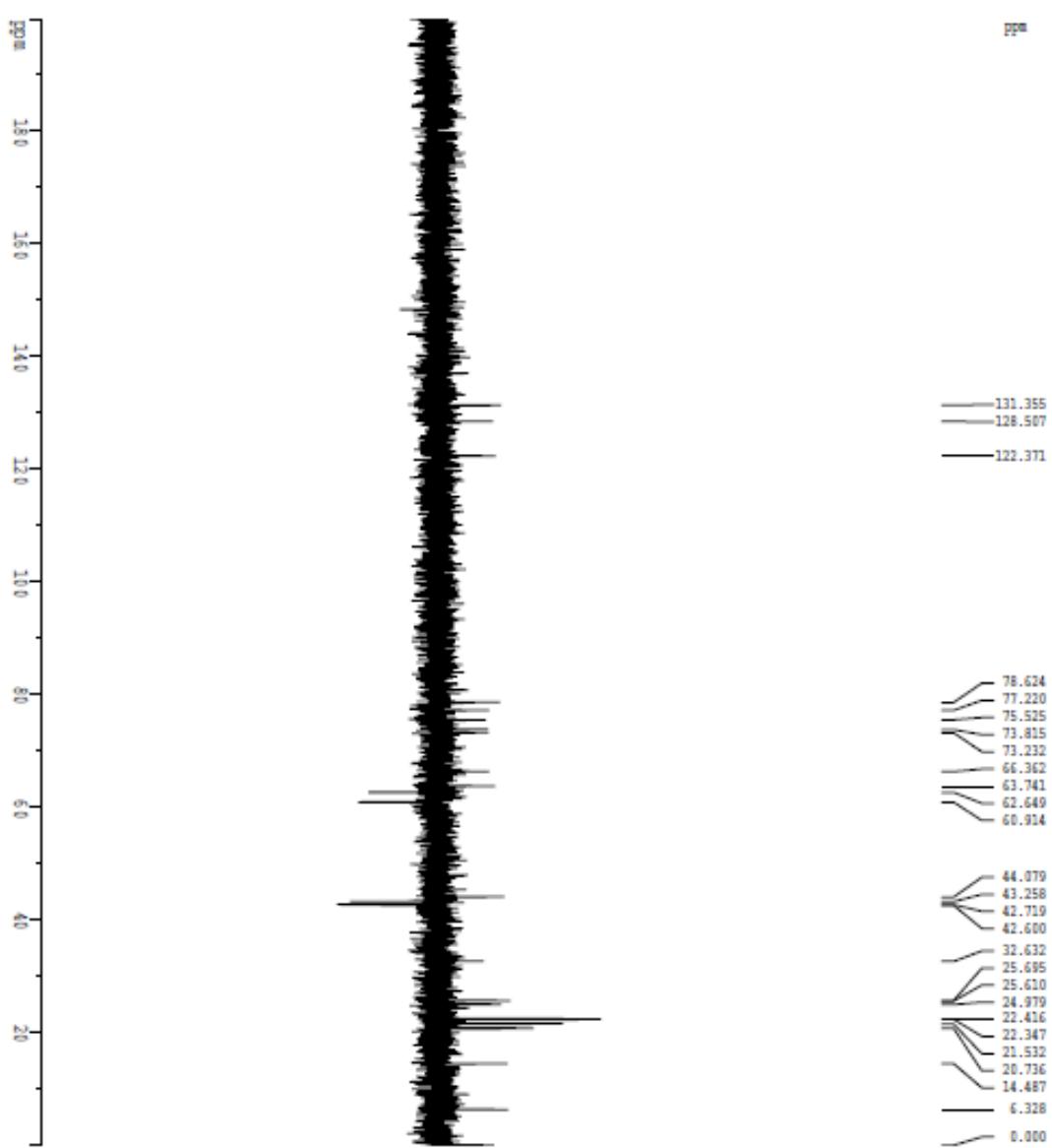
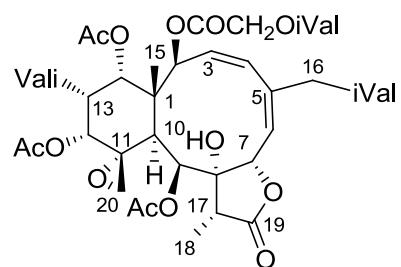
S41. HR-ESIMS spectrum of the new compound 6.

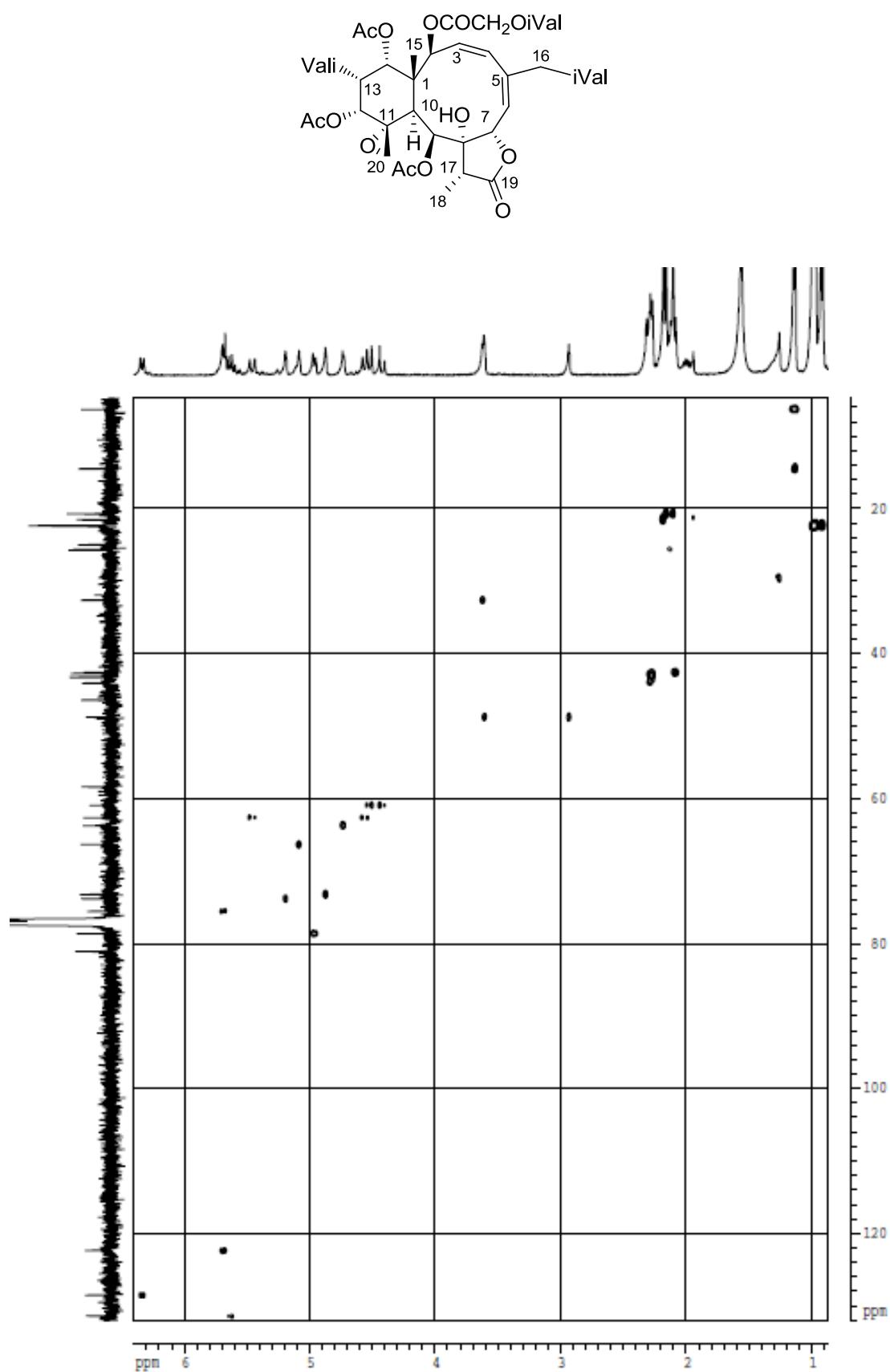


S42. ^1H NMR spectrum of the new compound **6**.

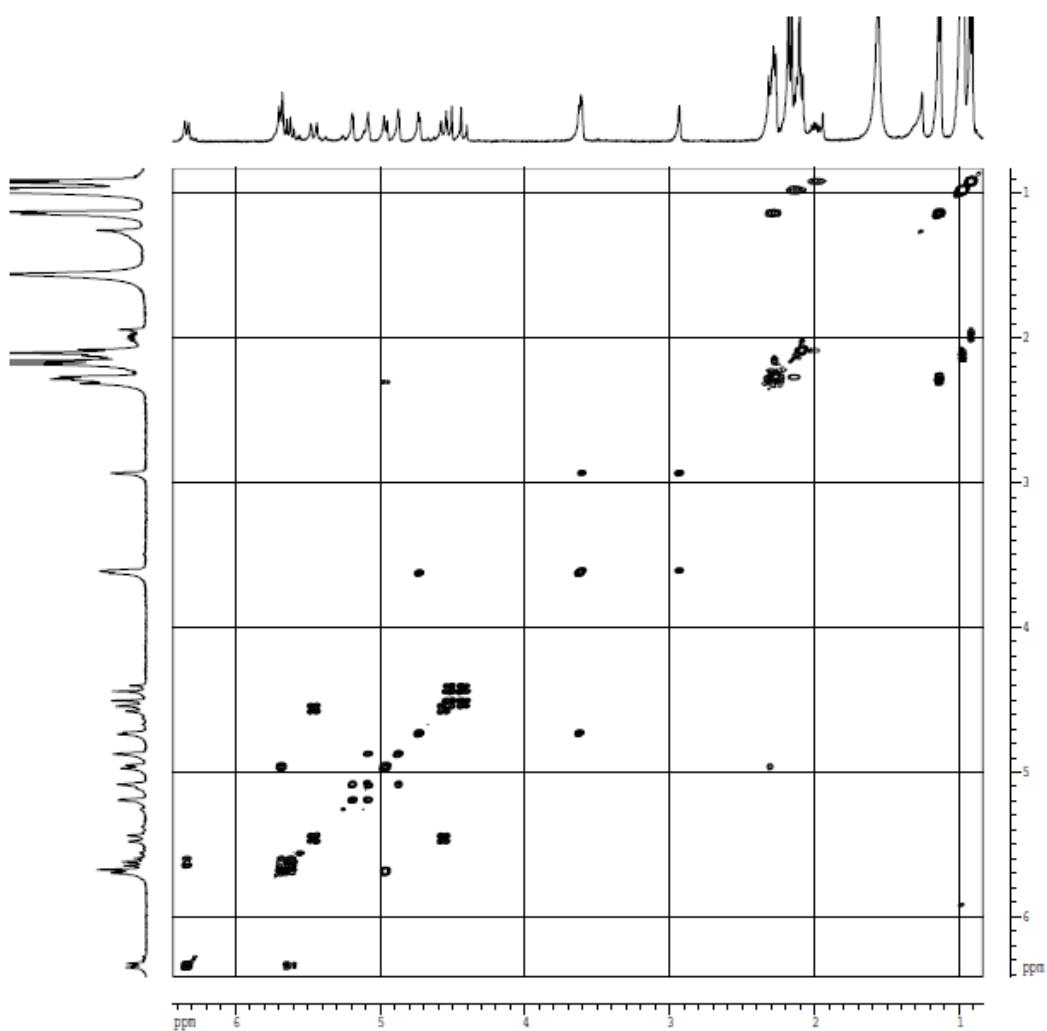
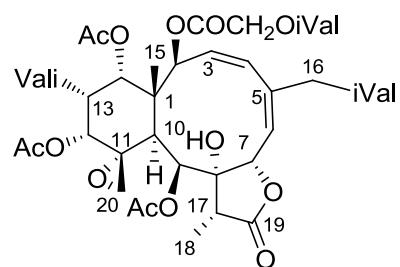
S43. ^{13}C NMR spectrum of the new compound **6**.

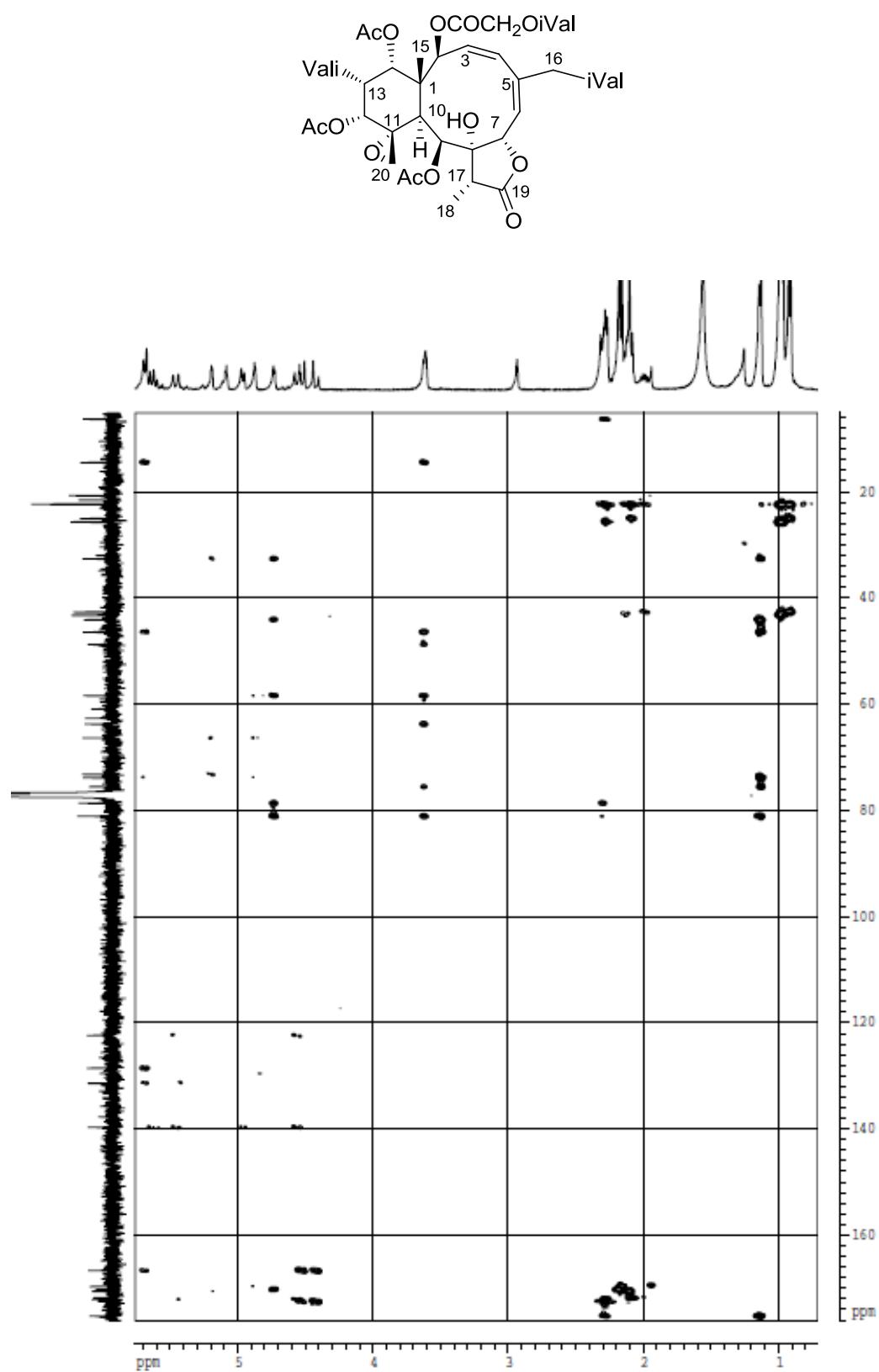
S44. ^1H DEPT spectrum of the new compound **6**.

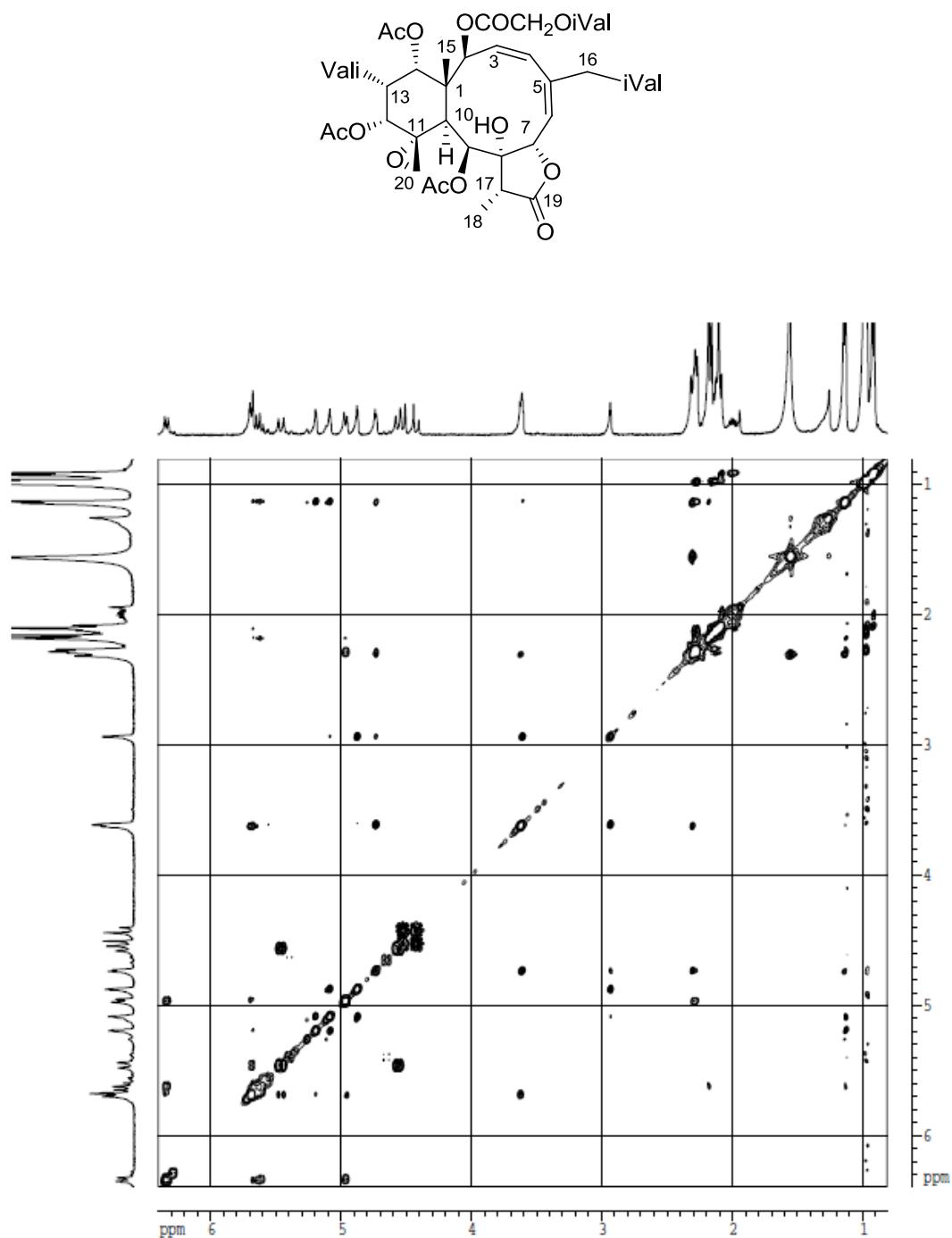


S45. HSQC spectrum of the new compound **6**.

S46. ^1H - ^1H COSY spectrum of the new compound 6.



S47. HMBC spectrum of the new compound **6**.

S48. NOESY spectrum of the new compound **6**.

S49.

Figure S1. Four conformational isomers and populations of (*1R,2S,7S,8S,9S,10S,11R,12R,14S,17R*)-gemmacolide N (**1**) obtained by the B3LYP/6-31G(d) reoptimization of the seventy two MMFF conformers.

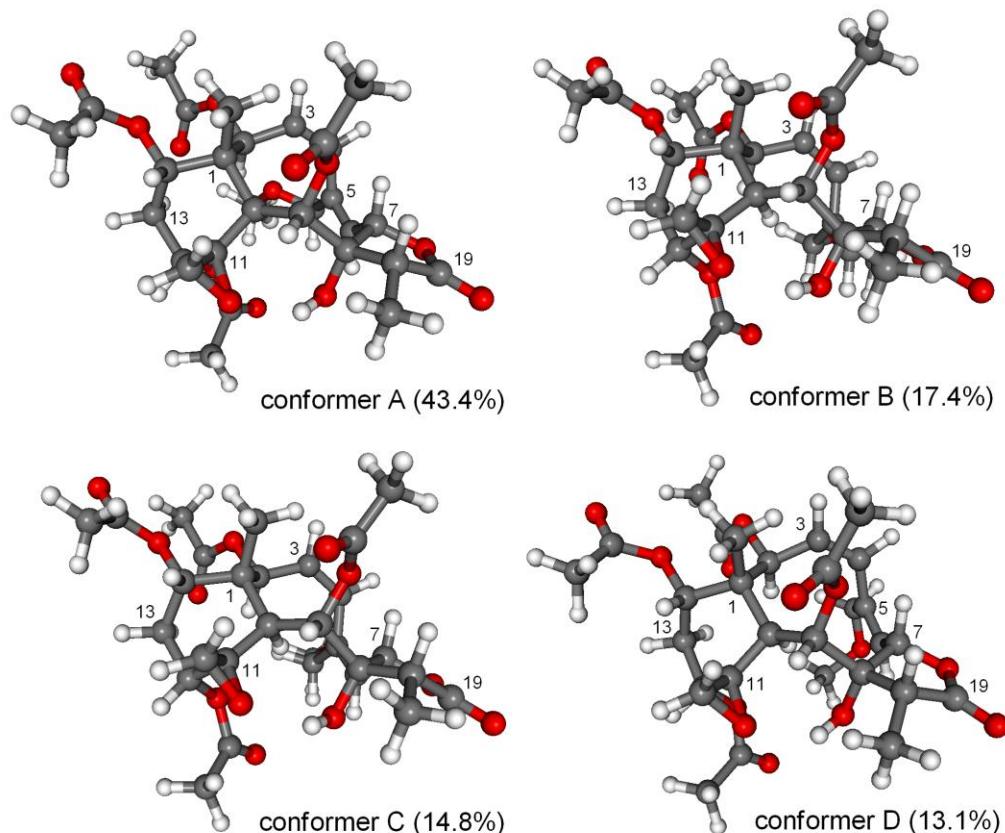


Table S1. Cartesian coordinates for the four most abundant conformers calculated at B3LYP/6-31G(d) level of theory.

Conformer A I	Atom	Standard Orientation (Ångstroms)		
		X	Y	Z
1	C	2.368168	0.050023	1.780589
2	C	1.002905	0.395716	2.409974
3	C	-0.017156	-0.624078	1.922037
4	C	-0.229819	-0.553399	0.392208
5	C	1.162324	-0.913203	-0.354561
6	C	2.243571	-1.105083	0.776386
7	H	0.858852	-0.165711	-3.324660
8	C	-1.603142	-1.227950	0.034963
9	C	-2.801519	-0.222421	0.023428
10	C	-2.838152	0.757824	-1.183862
11	C	-2.072050	2.032918	-1.008950
12	C	-0.948664	2.325181	-1.678785
13	C	-0.385940	1.371013	-2.677037
14	C	0.592043	0.478644	-2.488907
15	C	-4.172942	-0.926437	-0.126133
16	C	-5.040147	0.176914	-0.725339
17	O	-4.246886	1.090183	-1.344146
18	C	-0.251032	3.651086	-1.470397
19	O	1.130642	3.414769	-1.274576
20	C	1.189539	-2.216354	-1.174889
21	H	-0.376587	0.510154	0.204336
22	O	-6.240902	0.264571	-0.707024
23	C	-4.787683	-1.556049	1.121038
24	C	-0.186999	-1.859676	2.711971
25	O	-1.160041	-0.804762	2.786786
26	O	-2.783569	0.583197	1.189423
27	H	2.776043	0.931073	1.279076
28	O	-1.638779	-1.929883	-1.225419
29	O	0.649537	1.715521	1.954830
30	C	-0.163599	2.579676	2.637740
31	O	-0.478492	3.606792	2.088351
32	C	-0.569680	2.228540	4.053455
33	H	-1.232825	3.015190	4.413603
34	O	3.540657	-1.332806	0.195930
35	O	5.495005	-2.341140	0.074936
36	C	4.416920	-2.282818	0.618322
37	C	4.003473	-3.232391	1.727582
38	H	3.082162	-0.241214	2.559239
39	H	1.047709	0.374042	3.501944
40	H	1.950596	-2.014039	1.306626
41	H	-1.837511	-1.971077	0.796406

42	H	-2.520548	0.224541	-2.083306
43	H	-2.472829	2.724761	-0.274146
44	H	-0.860728	1.383883	-3.660514
45	C	1.496962	0.314740	-1.286114
46	H	-4.087491	-1.687652	-0.914357
47	H	-0.688226	4.160190	-0.600898
48	H	-0.397666	4.299172	-2.355144
49	C	1.828302	4.546164	-0.789522
50	H	0.564709	-2.145185	-2.063029
51	H	0.854044	-3.074217	-0.581588
52	H	2.213843	-2.404382	-1.504748
53	H	-5.804549	-1.888066	0.894064
54	H	-4.208642	-2.422036	1.459794
55	H	-4.853027	-0.828496	1.935329
56	H	-0.527211	-2.771557	2.222214
57	H	0.388687	-2.007669	3.625711
58	H	-2.644667	-0.002034	1.954649
59	O	2.800729	0.128105	-1.902669
60	H	1.519212	1.235871	-0.702822
61	H	1.425937	4.872490	0.180408
62	H	1.775078	5.388355	-1.498980
63	C	-1.772425	-3.285160	-1.181493
64	C	-1.906776	-3.855733	-2.570458
65	O	-1.761493	-3.933557	-0.157201
66	H	-1.079729	1.262708	4.099450
67	H	0.309661	2.179545	4.707247
68	H	4.863568	-3.860771	1.959241
69	H	3.693308	-2.699920	2.632841
70	H	3.172675	-3.873322	1.411438
71	H	-0.935630	-3.813597	-3.076840
72	H	-2.229108	-4.895496	-2.504936
73	C	3.846947	0.887305	-1.495471
74	C	5.102143	0.487535	-2.227407
75	O	3.786210	1.736299	-0.631164
76	H	4.894247	0.249434	-3.273639
77	H	5.838555	1.289487	-2.154411
78	H	5.499784	-0.412129	-1.741490
79	H	-2.614065	-3.272210	-3.166165
80	H	2.867990	4.236406	-0.668617

Table S1. *Cont.*

Conformer B		Standard Orientation (Ångstroms)		
I	Atom	X	Y	Z
1	C	2.538080	-0.108310	1.786058
2	C	1.174263	-0.252653	2.491057
3	C	0.334371	-1.251246	1.706145
4	C	0.033778	-0.752501	0.274793
5	C	1.422313	-0.622701	-0.547061
6	C	2.583895	-0.915553	0.480766
7	H	0.829693	0.880872	-3.174381
8	C	-1.232506	-1.499060	-0.274579
9	C	-2.567649	-0.745641	0.036059
10	C	-2.819736	0.543714	-0.796763
11	C	-2.232685	1.811563	-0.251307
12	C	-1.207445	2.458608	-0.825160
13	C	-0.600686	1.946487	-2.087475
14	C	0.505709	1.202592	-2.186673
15	C	-3.824725	-1.576161	-0.321322
16	C	-4.879990	-0.491892	-0.522585
17	O	-4.268503	0.684954	-0.819304
18	C	-0.658580	3.755635	-0.254333
19	O	-0.888105	4.855973	-1.128943
20	C	1.636310	-1.610338	-1.708437
21	H	-0.289234	0.276716	0.430194
22	O	-6.076989	-0.606439	-0.464208
23	C	-4.264755	-2.659031	0.660362
24	C	0.424722	-2.679854	2.067743
25	O	-0.711735	-1.895081	2.464660
26	O	-2.607582	-0.350722	1.397019
27	H	2.731381	0.947367	1.578431
28	O	-1.222870	-1.771703	-1.691470
29	O	0.550347	1.044603	2.468731
30	C	-0.384531	1.468664	3.380326
31	O	-0.953758	2.506754	3.155611
32	C	-0.595090	0.645425	4.633304
33	H	-1.371564	1.132092	5.223668
34	O	3.866725	-0.690575	-0.129052
35	O	5.980021	-1.179650	-0.508803
36	C	4.936541	-1.522327	-0.004986
37	C	4.770907	-2.837471	0.733617
38	H	3.343640	-0.460936	2.439891
39	H	1.288124	-0.598160	3.521669
40	H	2.501996	-1.979713	0.712843
41	H	-1.307237	-2.469318	0.215430
42	H	-2.490389	0.369598	-1.824472
43	H	-2.670925	2.179342	0.671937

44	H	-1.132718	2.182243	-3.010140
45	C	1.475336	0.858656	-1.079174
46	H	-3.673023	-2.023848	-1.313668
47	H	0.430060	3.696664	-0.149476
48	H	-1.087451	3.938088	0.741257
49	C	-2.229593	5.307262	-1.127778
50	H	0.969352	-1.400998	-2.542737
51	H	1.477951	-2.646759	-1.390606
52	H	2.662193	-1.512990	-2.072391
53	H	-5.233003	-3.058488	0.346237
54	H	-3.545692	-3.484638	0.696902
55	H	-4.390144	-2.249034	1.666871
56	H	0.220801	-3.440421	1.314428
57	H	1.063874	-2.997995	2.891640
58	H	-2.357663	-1.118559	1.940228
59	O	2.767054	1.126890	-1.681350
60	H	1.349002	1.536054	-0.233704
61	H	-2.544527	5.630087	-0.122766
62	H	-2.932369	4.536614	-1.477377
63	C	-1.134113	-3.076981	-2.074055
64	C	-1.256638	-3.206659	-3.570964
65	O	-0.958585	-3.996763	-1.304204
66	H	-0.897194	-0.378189	4.396005
67	H	0.326220	0.599549	5.226499
68	H	5.746313	-3.323251	0.761825
69	H	4.413413	-2.691657	1.758545
70	H	4.061945	-3.495707	0.219019
71	H	-2.075064	-2.589475	-3.951346
72	H	-0.331918	-2.856803	-4.044253
73	C	3.591665	2.015607	-1.070154
74	C	4.906443	2.102195	-1.797988
75	O	3.303664	2.621130	-0.058548
76	H	5.486250	1.201681	-1.560982
77	H	4.753395	2.130890	-2.880257
78	H	5.451349	2.986499	-1.464758
79	H	-1.414146	-4.253876	-3.831469
80	H	-2.273847	6.163325	-1.806486

Table S1. *Cont.*

Conformer C		Standard Orientation (Ångstroms)		
I	Atom	X	Y	Z
1	C	2.427858	-0.381657	1.808583
2	C	1.049648	-0.316934	2.497562
3	C	0.094868	-1.230883	1.741408
4	C	-0.131752	-0.753370	0.289534
5	C	1.269248	-0.817372	-0.519035
6	C	2.376817	-1.226511	0.527939
7	H	0.903643	0.682204	-3.191242
8	C	-1.474089	-1.362578	-0.248444
9	C	-2.710562	-0.440993	0.015019
10	C	-2.794760	0.833757	-0.872609
11	C	-2.081588	2.047448	-0.356865
12	C	-0.977758	2.552688	-0.924823
13	C	-0.404929	1.938665	-2.157647
14	C	0.604408	1.063978	-2.217131
15	C	-4.053022	-1.131796	-0.328083
16	C	-4.968177	0.057721	-0.604023
17	O	-4.216792	1.137875	-0.941592
18	C	-0.280367	3.766696	-0.357938
19	O	-0.241775	4.763990	-1.369957
20	C	1.368994	-1.851868	-1.654661
21	H	-0.334206	0.311269	0.405214
22	O	-6.171346	0.086501	-0.568313
23	C	-4.632085	-2.104859	0.695440
24	C	0.002811	-2.644071	2.158405
25	O	-1.029143	-1.707937	2.510258
26	O	-2.714339	0.011345	1.358695
27	H	2.765595	0.630951	1.573361
28	O	-1.487180	-1.685602	-1.654532
29	O	0.601631	1.048205	2.411274
30	C	-0.264593	1.638540	3.297402
31	O	-0.674919	2.738870	3.027028
32	C	-0.600825	0.903751	4.577496
33	H	-1.303783	1.519561	5.138673
34	O	3.682404	-1.185709	-0.075038
35	O	5.725497	-1.942121	-0.396904
36	C	4.639241	-2.138208	0.094869
37	C	4.298773	-3.399955	0.865690
38	H	3.170438	-0.820732	2.484388
39	H	1.108058	-0.630304	3.543090
40	H	2.157297	-2.264111	0.789320
41	H	-1.672462	-2.297561	0.274718
42	H	-2.460464	0.581755	-1.882271
43	H	-2.500201	2.500222	0.536921

44	H	-0.886769	2.217758	-3.095186
45	C	1.509692	0.632705	-1.085570
46	H	-3.941409	-1.643433	-1.294416
47	H	0.748606	3.508362	-0.052954
48	H	-0.804627	4.123636	0.540424
49	C	0.492647	5.901985	-0.969263
50	H	0.734939	-1.585237	-2.498151
51	H	1.088086	-2.854187	-1.312792
52	H	2.400814	-1.885417	-2.013263
53	H	-5.636102	-2.403438	0.381524
54	H	-4.015896	-3.006121	0.785886
55	H	-4.722195	-1.632846	1.678222
56	H	-0.288133	-3.402609	1.432163
57	H	0.589874	-3.006888	3.002394
58	H	-2.566920	-0.758759	1.935109
59	O	2.833529	0.724051	-1.672205
60	H	1.456568	1.341773	-0.258907
61	H	1.538312	5.648664	-0.731494
62	H	0.045496	6.386240	-0.086184
63	C	-1.550840	-3.004707	-1.991337
64	C	-1.678265	-3.170531	-3.484352
65	O	-1.491705	-3.911208	-1.188678
66	H	-1.045330	-0.074615	4.375689
67	H	0.299390	0.749419	5.184684
68	H	5.203424	-4.005517	0.921575
69	H	3.951756	-3.179790	1.880850
70	H	3.516550	-3.976044	0.358876
71	H	-2.438773	-2.496173	-3.887786
72	H	-0.725840	-2.916302	-3.963432
73	C	3.751578	1.526377	-1.077265
74	C	5.077945	1.422873	-1.782125
75	O	3.526940	2.200856	-0.093139
76	H	4.946155	1.431715	-2.867550
77	H	5.724399	2.243559	-1.468069
78	H	5.537007	0.466076	-1.504448
79	H	-1.927430	-4.207195	-3.713297
80	H	0.476208	6.605825	-1.805865

Table S1. *Cont.*

Conformer D		Standard Orientation (Ångstroms)		
I	Atom	X	Y	Z
1	C	2.393359	0.531767	1.561629
2	C	1.109232	0.533593	2.412252
3	C	0.179719	-0.576873	1.932421
4	C	-0.052377	-0.570311	0.403861
5	C	1.332389	-0.906521	-0.352306
6	C	2.471452	-0.753218	0.731397
7	H	0.850621	-0.817559	-3.375440
8	C	-1.392643	-1.331041	0.100057
9	C	-2.637827	-0.386122	0.024781
10	C	-2.815229	0.381463	-1.316270
11	C	-2.117174	1.700537	-1.453234
12	C	-1.044008	1.881140	-2.233126
13	C	-0.478627	0.757402	-3.031512
14	C	0.551726	-0.024324	-2.693321
15	C	-3.973035	-1.169143	0.092566
16	C	-4.943294	-0.226357	-0.614243
17	O	-4.248449	0.619578	-1.416148
18	C	-0.393769	3.244224	-2.439803
19	O	-0.968858	4.289120	-1.694632
20	C	1.488243	-2.334820	-0.907447
21	H	-0.257613	0.478874	0.177949
22	O	-6.144269	-0.205736	-0.528092
23	C	-4.472450	-1.605266	1.467957
24	C	0.071319	-1.800556	2.752874
25	O	-0.951006	-0.788385	2.800408
26	O	-2.575575	0.590156	1.048894
27	H	2.406374	1.406780	0.906455
28	O	-1.395195	-2.144672	-1.092812
29	O	0.478415	1.811776	2.238924
30	C	-0.201646	2.474565	3.229474
31	O	-0.746935	3.507882	2.936179
32	C	-0.197068	1.899996	4.631878
33	H	-0.797668	2.559833	5.258192
34	O	3.768281	-0.833660	0.117716
35	O	5.891359	-1.418979	0.083852
36	C	4.827800	-1.500789	0.651655
37	C	4.626628	-2.327600	1.907718
38	H	3.279228	0.605631	2.201023
39	H	1.336983	0.370479	3.468461
40	H	2.359421	-1.614683	1.395142
41	H	-1.590198	-2.015873	0.922086
42	H	-2.540548	-0.290373	-2.133492
43	H	-2.542403	2.535216	-0.906046

44	H	-0.977713	0.546977	-3.979836
45	C	1.470355	0.154728	-1.508339
46	H	-3.890364	-2.051216	-0.558894
47	H	-0.505317	3.513810	-3.500460
48	H	0.690399	3.170066	-2.250507
49	C	-0.406812	4.457477	-0.396643
50	H	0.870895	-2.498147	-1.788365
51	H	1.223096	-3.089657	-0.159125
52	H	2.529621	-2.491069	-1.201907
53	H	-5.470280	-2.040751	1.367211
54	H	-3.811670	-2.353723	1.918291
55	H	-4.556147	-0.749488	2.144457
56	H	-0.228780	-2.739669	2.289946
57	H	0.653965	-1.896043	3.668991
58	H	-2.456330	0.126935	1.895998
59	O	2.788449	0.090112	-2.109534
60	H	1.346609	1.150786	-1.082664
61	H	0.674458	4.651943	-0.459498
62	H	-0.576771	3.593354	0.254376
63	C	-1.461900	-3.495797	-0.928778
64	C	-1.593968	-4.190004	-2.260864
65	O	-1.403391	-4.052104	0.146706
66	H	-0.618145	0.890924	4.648178
67	H	0.819897	1.856510	5.039454
68	H	5.597132	-2.734104	2.192450
69	H	4.231435	-1.729479	2.735615
70	H	3.933294	-3.157507	1.730149
71	H	-2.364036	-3.711904	-2.872690
72	H	-0.647409	-4.118389	-2.808708
73	C	3.616499	1.153858	-1.943480
74	C	4.960181	0.879975	-2.563058
75	O	3.305868	2.165263	-1.347839
76	H	5.503222	0.189205	-1.906398
77	H	4.849789	0.400572	-3.539617
78	H	5.518054	1.812908	-2.655016
79	H	-1.833907	-5.241346	-2.098922
80	H	-0.901198	5.325445	0.045597

S50.

Figure S2. Experimental solution ECD spectrum of gemmacolide N (**1**) compared with the BH&HLYP/6-311G(d,p) ECD spectrum calculated for the lowest-energy conformational isomer (conformer A, 43.4%) of the (1*R*,2*S*,7*S*,8*S*,9*S*,10*S*,11*R*,12*R*,14*S*,17*R*)-enantiomer of **1**. Bars represent the rotational strength with the BH&HLYP/6-311G(d,p) method.

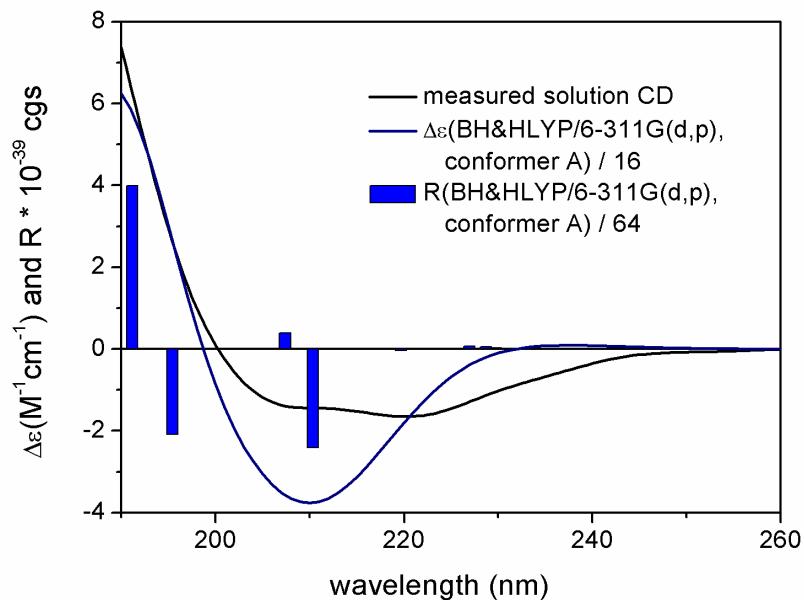


Figure S3. Experimental solution ECD spectrum of gemmacolide N (**1**) compared with the BH&HLYP/6-311G(d,p) ECD spectrum calculated for conformer B (17.4%) of the (1*R*,2*S*,7*S*,8*S*,9*S*,10*S*,11*R*,12*R*,14*S*,17*R*)-enantiomer of **1**. Bars represent the rotational strength with the BH&HLYP/6-311G(d,p) method.

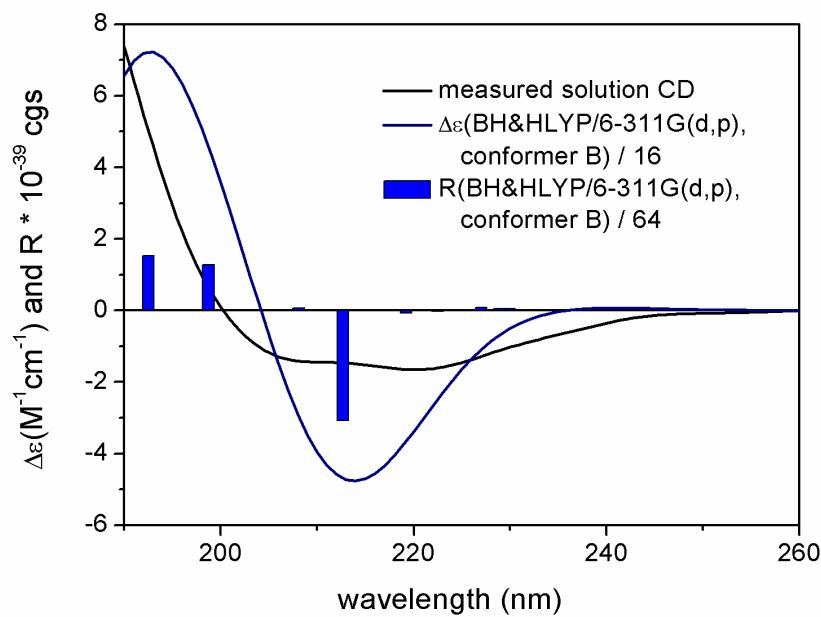


Figure S4. Experimental solution ECD spectrum of gemmacolide N (**1**) compared with the BH&HLYP/6-311G(d,p) ECD spectrum calculated for conformer C (14.8%) of the (1*R*,2*S*,7*S*,8*S*,9*S*,10*S*,11*R*,12*R*,14*S*,17*R*)-enantiomer of **1**. Bars represent the rotational strength with the BH&HLYP/6-311G(d,p) method.

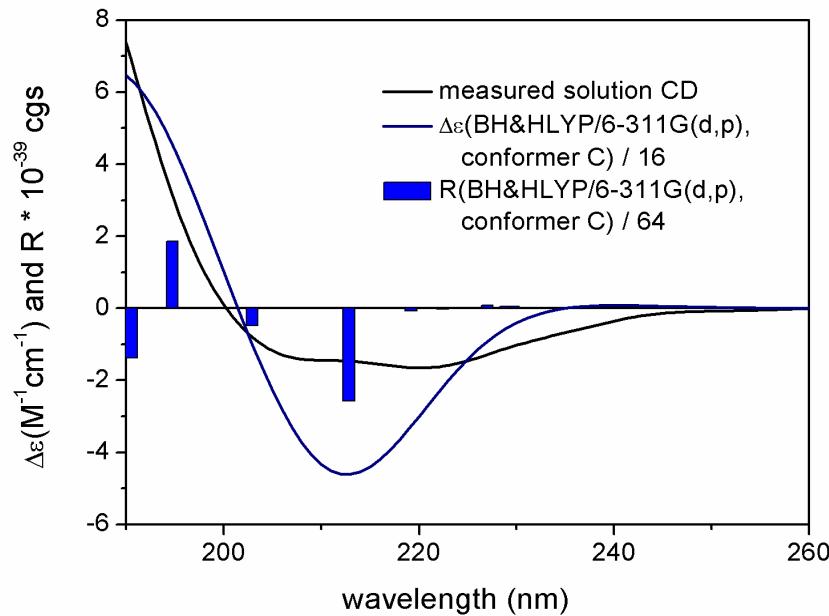


Figure S5. Experimental solution ECD spectrum of gemmacolide N (**1**) compared with the BH&HLYP/6-311G(d,p) ECD spectrum calculated for conformer D (13.1%) of the (1*R*,2*S*,7*S*,8*S*,9*S*,10*S*,11*R*,12*R*,14*S*,17*R*)-enantiomer of **1**. Bars represent the rotational strength with the BH&HLYP/6-311G(d,p) method.

