

# **Supporting Informations**

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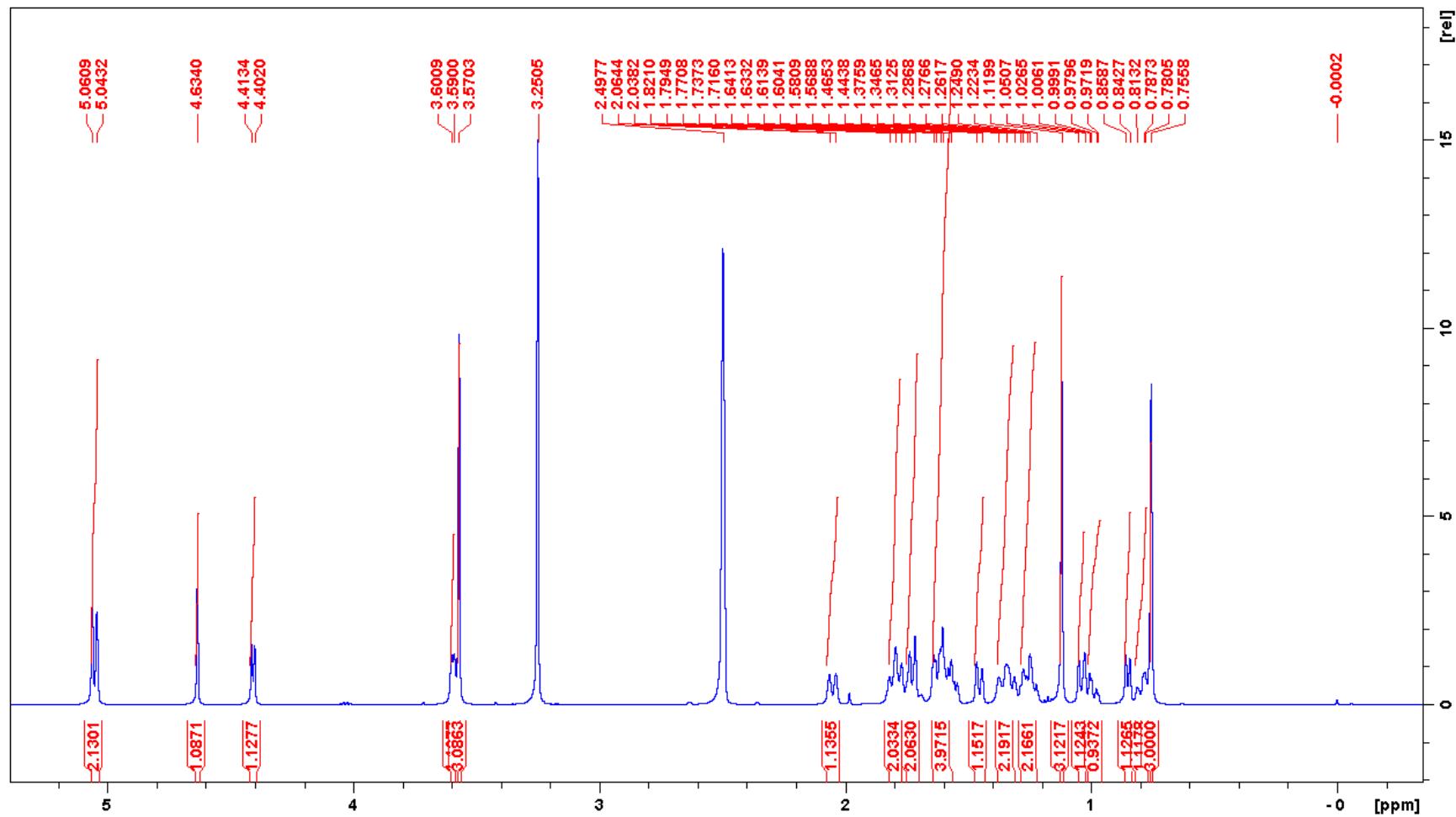
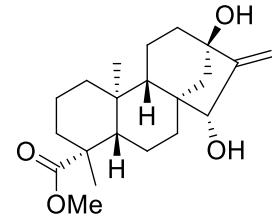
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**Table S1** *In vitro* antiproliferative activity of the prepared compounds

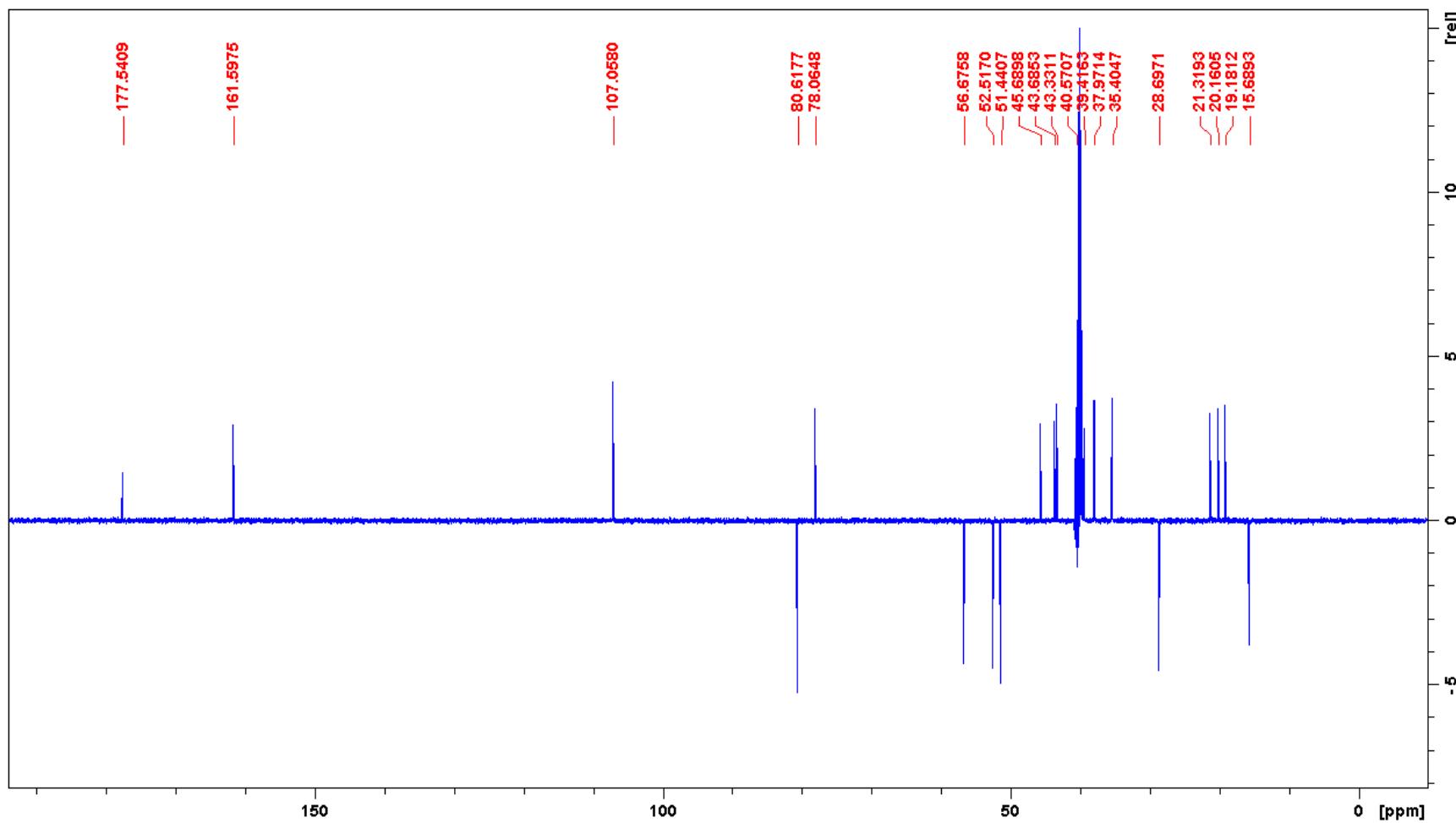
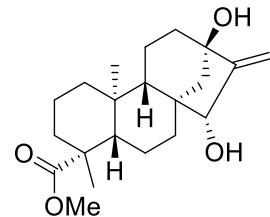
Comp.	Conc. (μM)	Growth inhibition (%) ± SEM <sup>1</sup>					
		HeLa	SiHa	MCF-7	MDA-MB-231	A2780	
<b>3</b>	10	<20 <sup>2</sup>	<20	<20	<20	<20	<20
	30	27.92 ± 2.30	30.73 ± 2.71	49.20 ± 2.19	<20	<20	<20
<b>4b</b>	10	30.61 ± 1.09	<20	<20	<20	<20	<20
	30	95.35 ± 0.11	57.98 ± 2.66	53.11 ± 2.20	36.70 ± 1.62	61.99 ± 0.78	37.17 ± 0.71
<b>5</b>	10	<20	<20	59.60 ± 2.73	34.59 ± 2.98	30.35 ± 2.48	<20
	30	95.77 ± 0.26	<20	96.42 ± 0.27	95.80 ± 0.63	97.15 ± 0.21	101.1 ± 0.43
<b>6</b>	10	<20	<20	<20	<20	25.73 ± 2.70	<20
	30	<20	<20	51.71 ± 2.54	82.56 ± 0.69	63.73 ± 1.98	89.32 ± 2.62
<b>7</b>	10	33.68 ± 0.93	<20	62.79 ± 1.05	88.05 ± 0.59	52.85 ± 1.83	35.79 ± 4.12
	30	97.76 ± 0.25	94.56 ± 0.54	97.69 ± 0.38	94.56 ± 0.63	98.14 ± 0.36	100.50 ± 0.37
<b>8</b>	10	<20	<20	73.99 ± 2.14	84.31 ± 2.78	59.85 ± 3.03	58.81 ± 1.41
	30	96.19 ± 0.25	95.09 ± 0.69	96.04 ± 0.32	95.62 ± 0.92	97.45 ± 0.36	103.20 ± 0.33
<b>9</b>	10	42.54 ± 1.42	54.60 ± 3.42	96.40 ± 0.47	83.03 ± 1.71	45.60 ± 3.13	25.90 ± 0.94
	30	96.80 ± 0.74	95.17 ± 0.37	96.19 ± 0.65	93.63 ± 0.36	96.97 ± 0.29	92.44 ± 1.01
<b>10</b>	10	27.79 ± 1.05	24.10 ± 1.39	74.32 ± 2.62	37.79 ± 2.27	<20	<20
	30	96.06 ± 0.93	94.64 ± 0.50	95.66 ± 0.76	93.42 ± 0.56	96.79 ± 0.25	90.93 ± 1.17
<b>11</b>	10	95.41 ± 1.08	93.66 ± 0.85	96.23 ± 0.59	93.66 ± 0.59	97.06 ± 0.30	44.42 ± 0.70
	30	95.75 ± 1.11	94.59 ± 0.49	96.27 ± 0.65	94.31 ± 0.51	97.51 ± 0.22	90.55 ± 1.16
<b>12</b>	10	96.82 ± 0.56	96.08 ± 0.60	96.35 ± 0.36	95.84 ± 0.29	96.68 ± 0.36	90.07 ± 0.51
	30	96.94 ± 0.49	95.49 ± 0.86	95.87 ± 0.38	95.62 ± 0.34	96.38 ± 0.30	94.67 ± 0.24
<b>13</b>	10	94.50 ± 1.24	93.78 ± 1.81	95.74 ± 0.64	93.33 ± 0.29	96.64 ± 0.35	72.02 ± 1.81
	30	94.91 ± 1.29	93.77 ± 0.41	95.44 ± 0.85	93.21 ± 0.46	96.79 ± 0.20	90.55 ± 1.31
<b>14</b>	10	97.20 ± 0.92	97.24 ± 0.39	97.57 ± 0.19	97.41 ± 0.21	92.19 ± 3.33	93.25 ± 0.51
	30	98.14 ± 0.36	96.70 ± 0.65	97.66 ± 0.28	96.46 ± 0.34	96.81 ± 0.23	97.34 ± 0.26
<b>15</b>	10	63.56 ± 1.54	22.35 ± 1.42	90.95 ± 1.52	68.30 ± 2.86	50.02 ± 2.99	20.97 ± 0.96
	30	97.25 ± 0.50	95.67 ± 0.76	96.47 ± 0.26	95.63 ± 0.45	96.64 ± 0.24	94.23 ± 0.31
<b>16</b>	10	53.54 ± 1.99	<20	80.66 ± 2.37	39.29 ± 1.99	48.34 ± 2.17	<20
	30	98.33 ± 0.32	96.73 ± 0.65	97.10 ± 0.23	96.65 ± 0.37	96.99 ± 0.19	95.12 ± 0.41
<b>17</b>	10	<20	<20	<20	<20	<20	<20
	30	28.87 ± 2.72	<20	<20	30.39 ± 2.04	<20	<20
<b>18</b>	10	<20	<20	<20	<20	<20	<20
	30	41.12 ± 1.95	66.08 ± 2.45	95.18 ± 0.35	87.67 ± 0.91	58.51 ± 3.18	<20

<sup>1</sup>: Mean ± SEM values from two determinations with 5 parallel wells in each.<sup>2</sup>: Cancer cell growth inhibition values less than 20% were considered negligible and are not given numerically

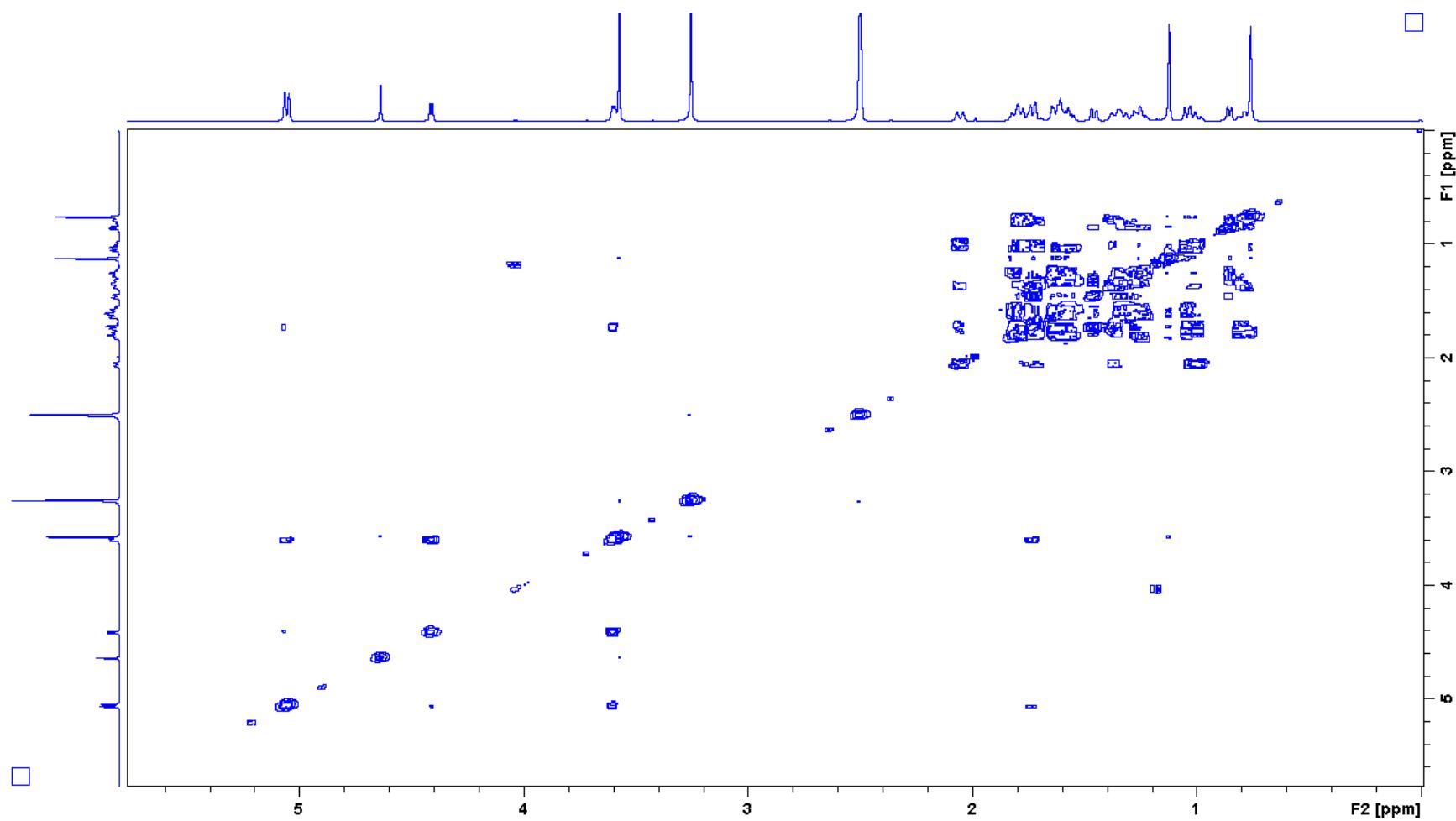
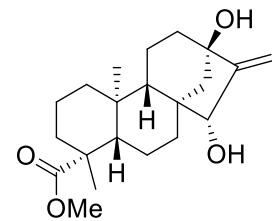
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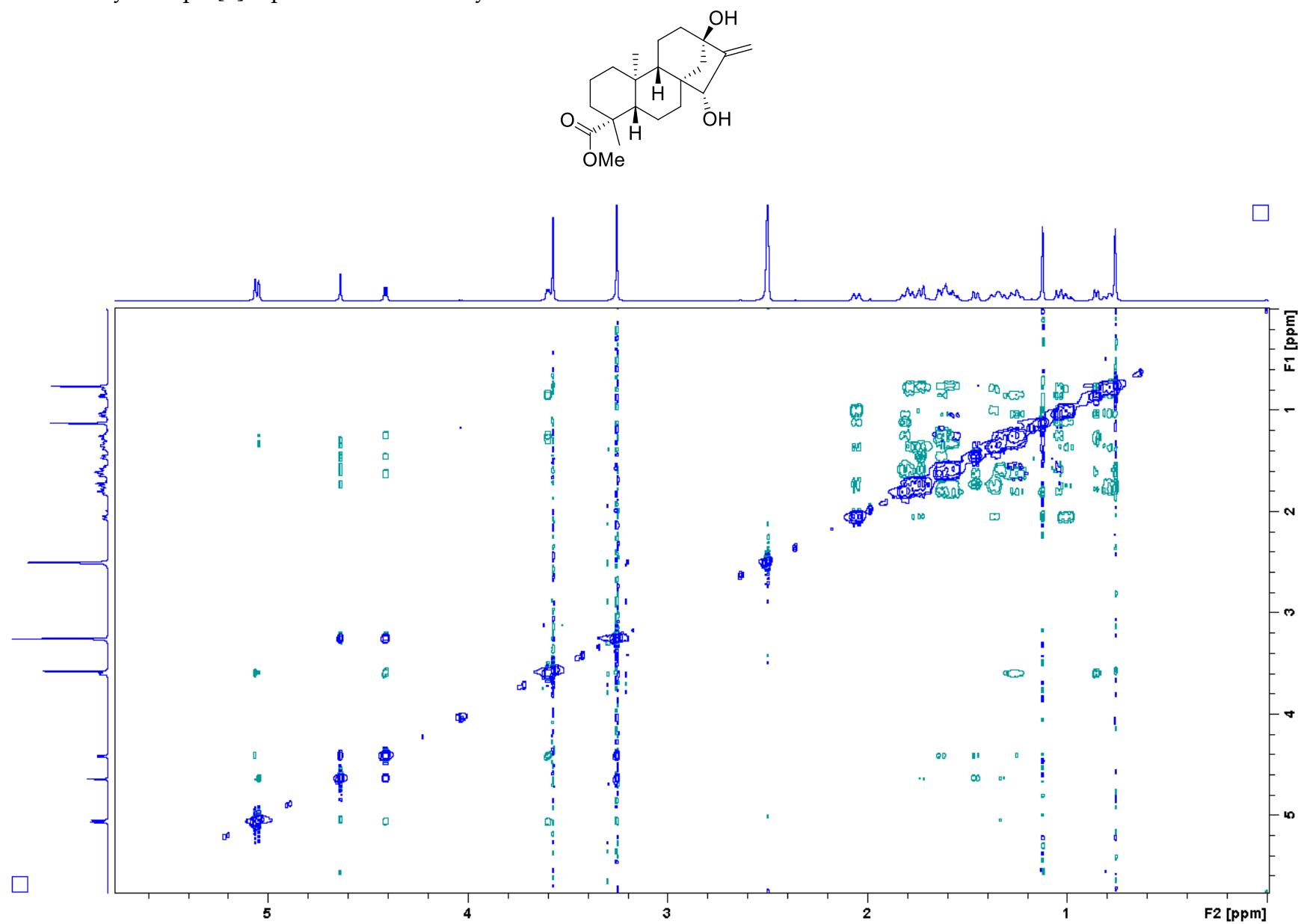
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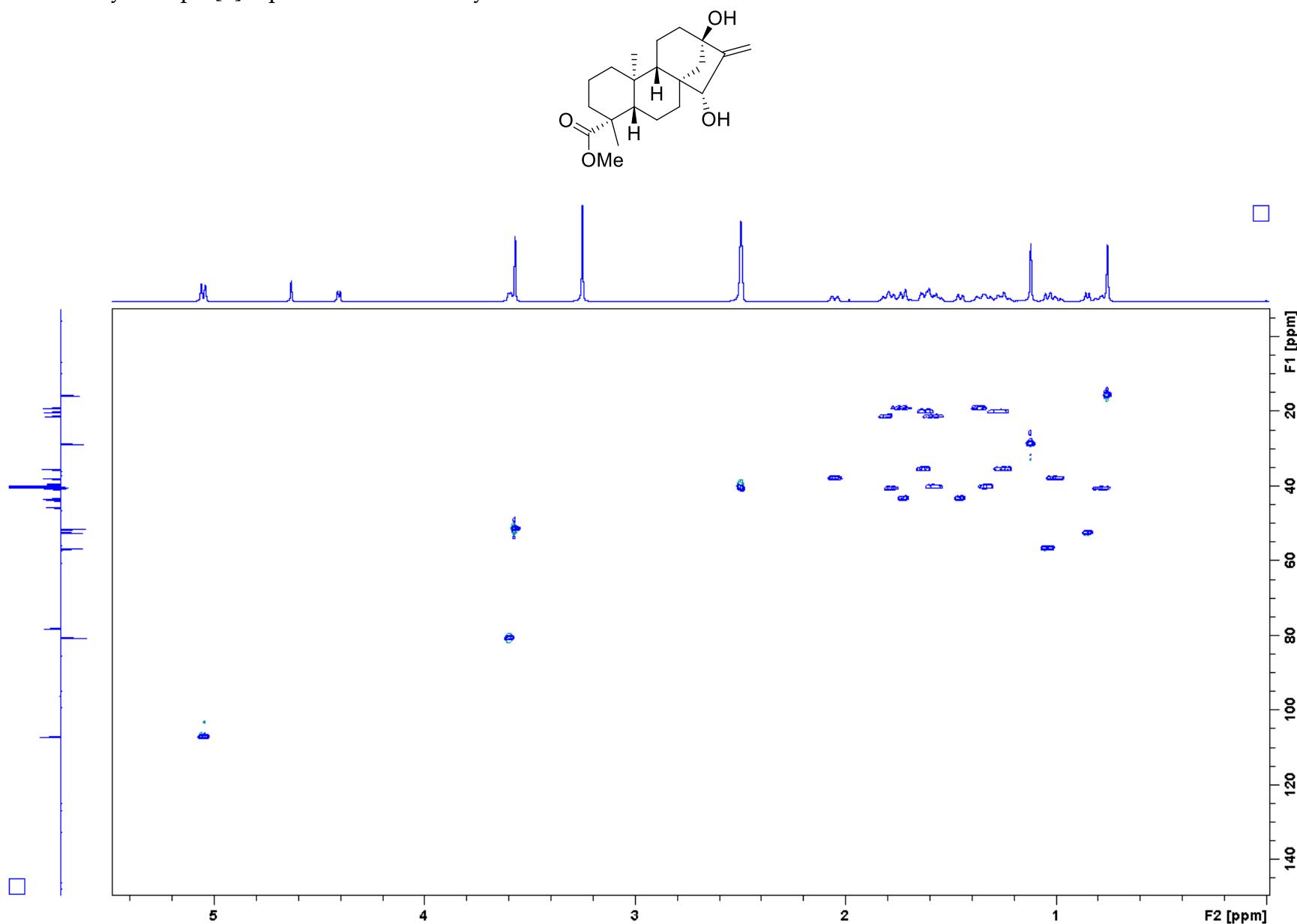
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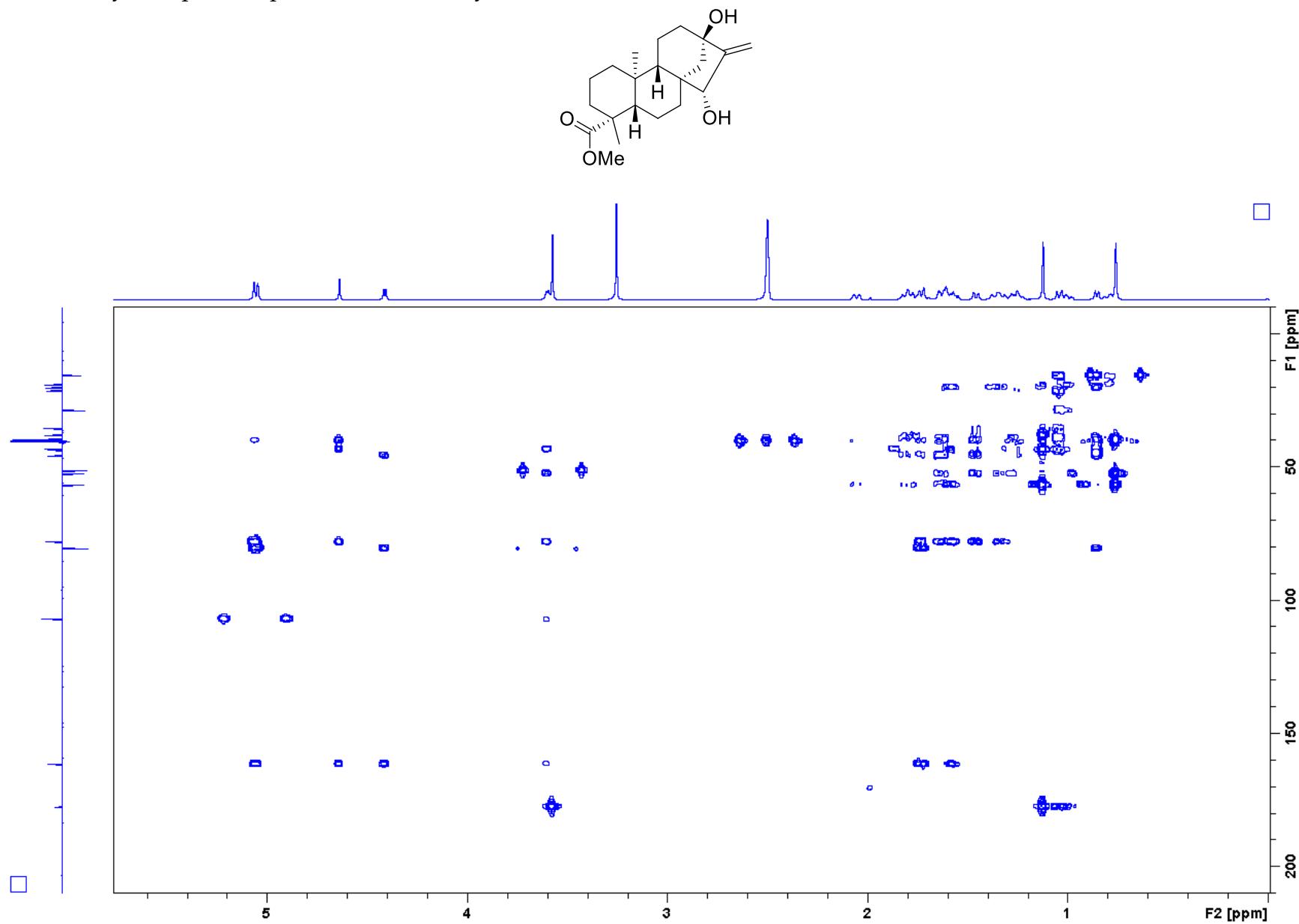
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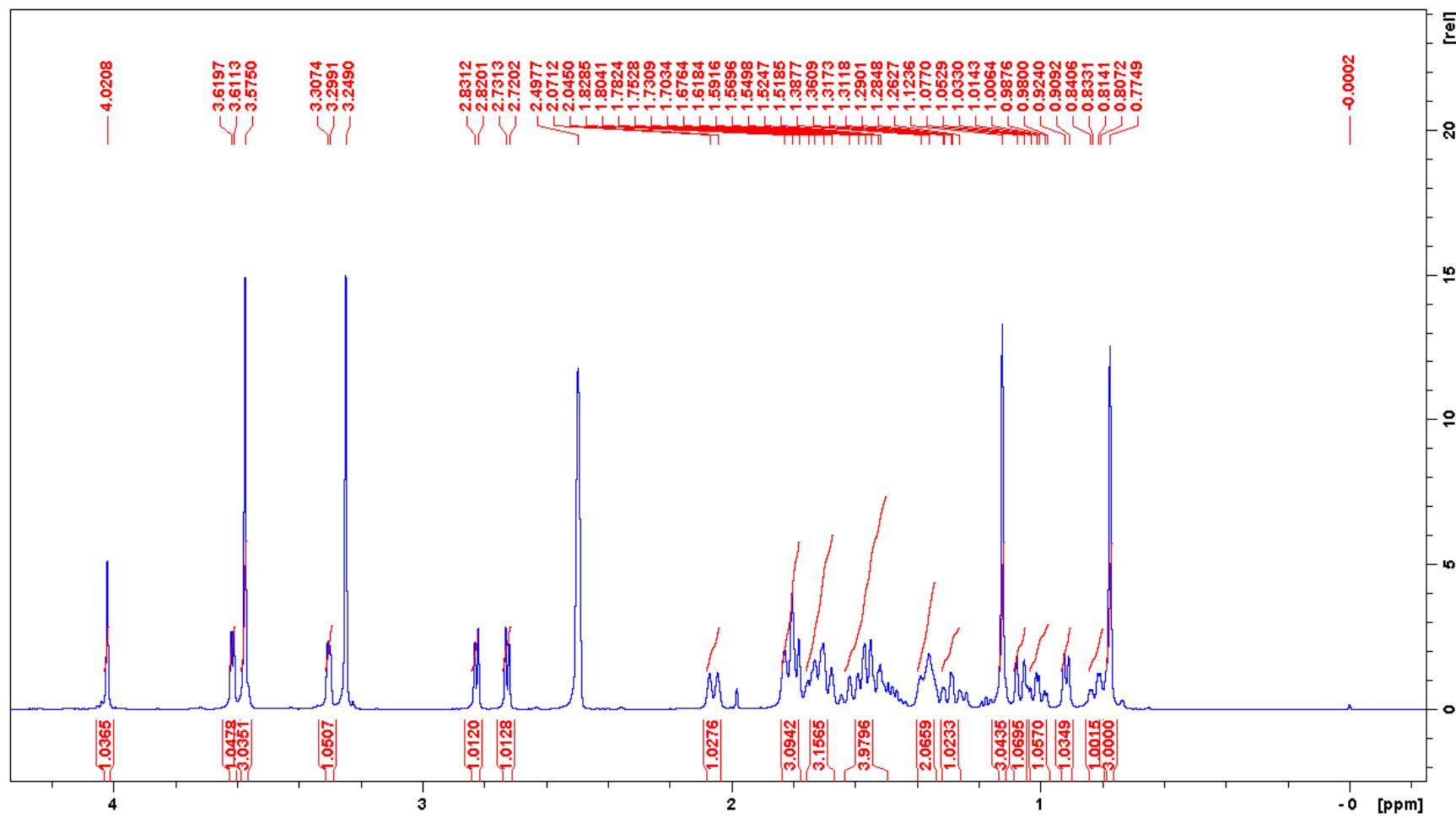
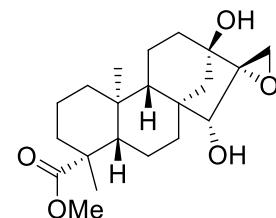
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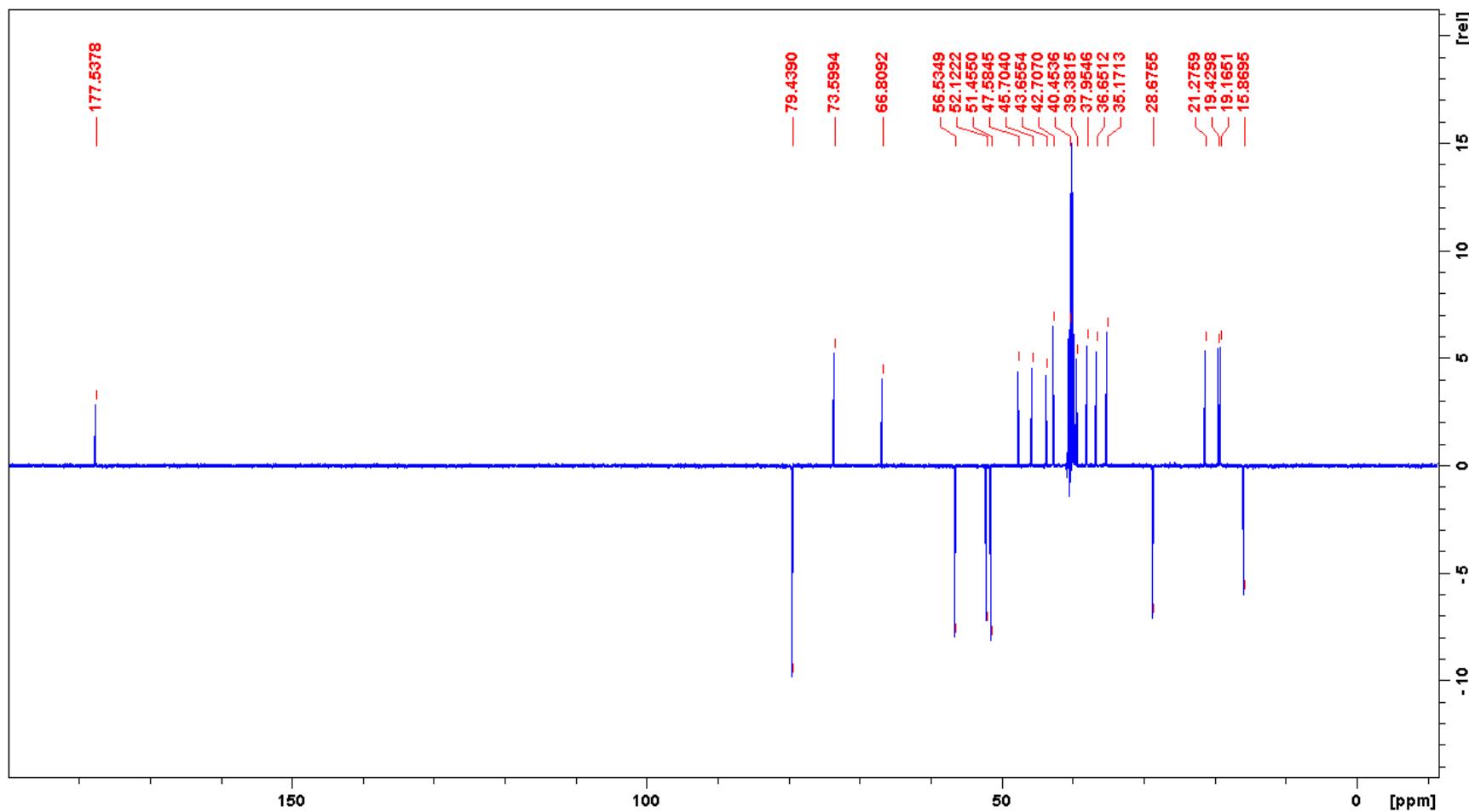
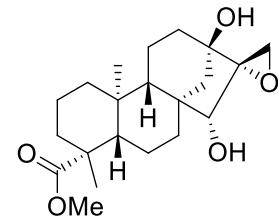
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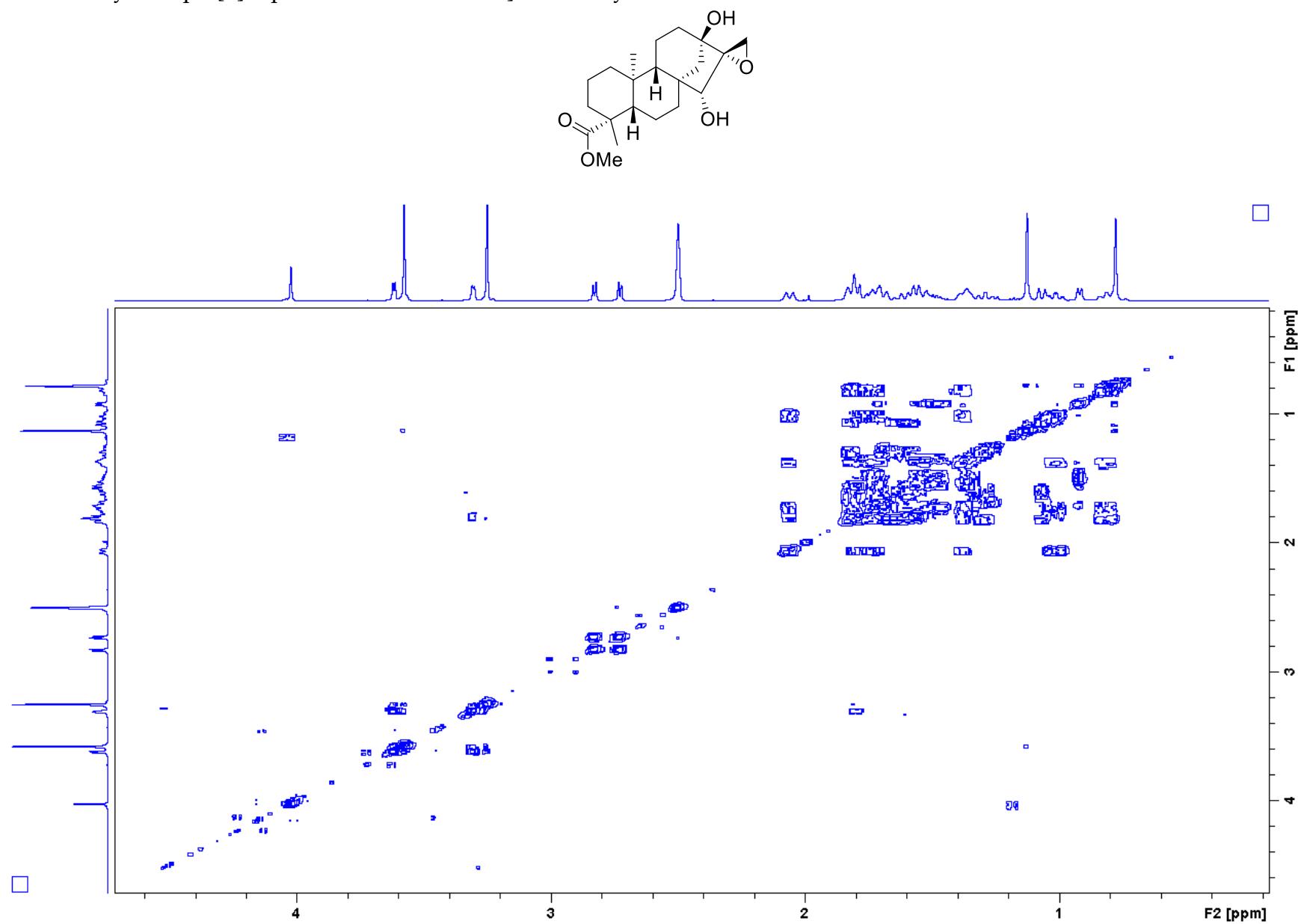
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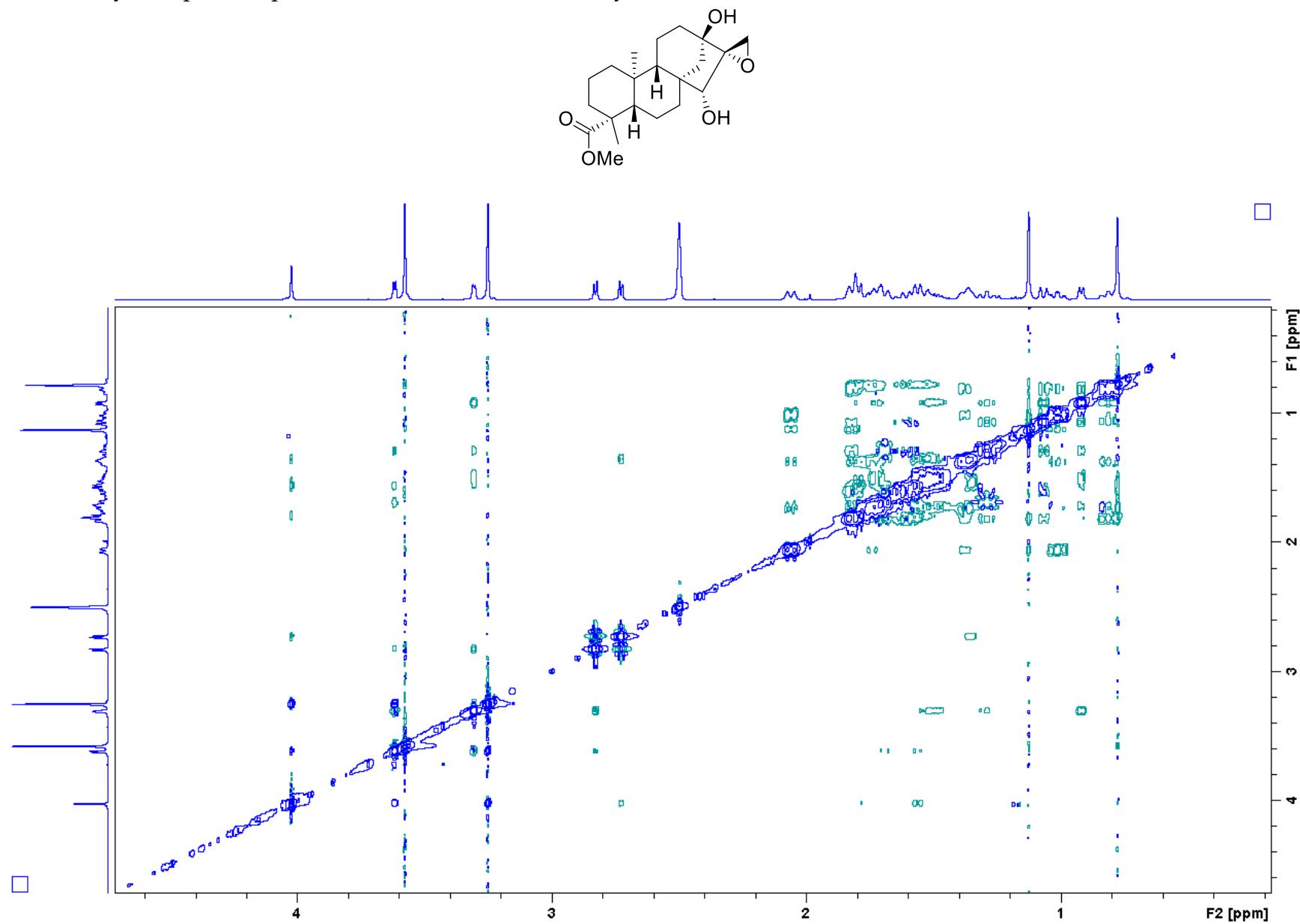
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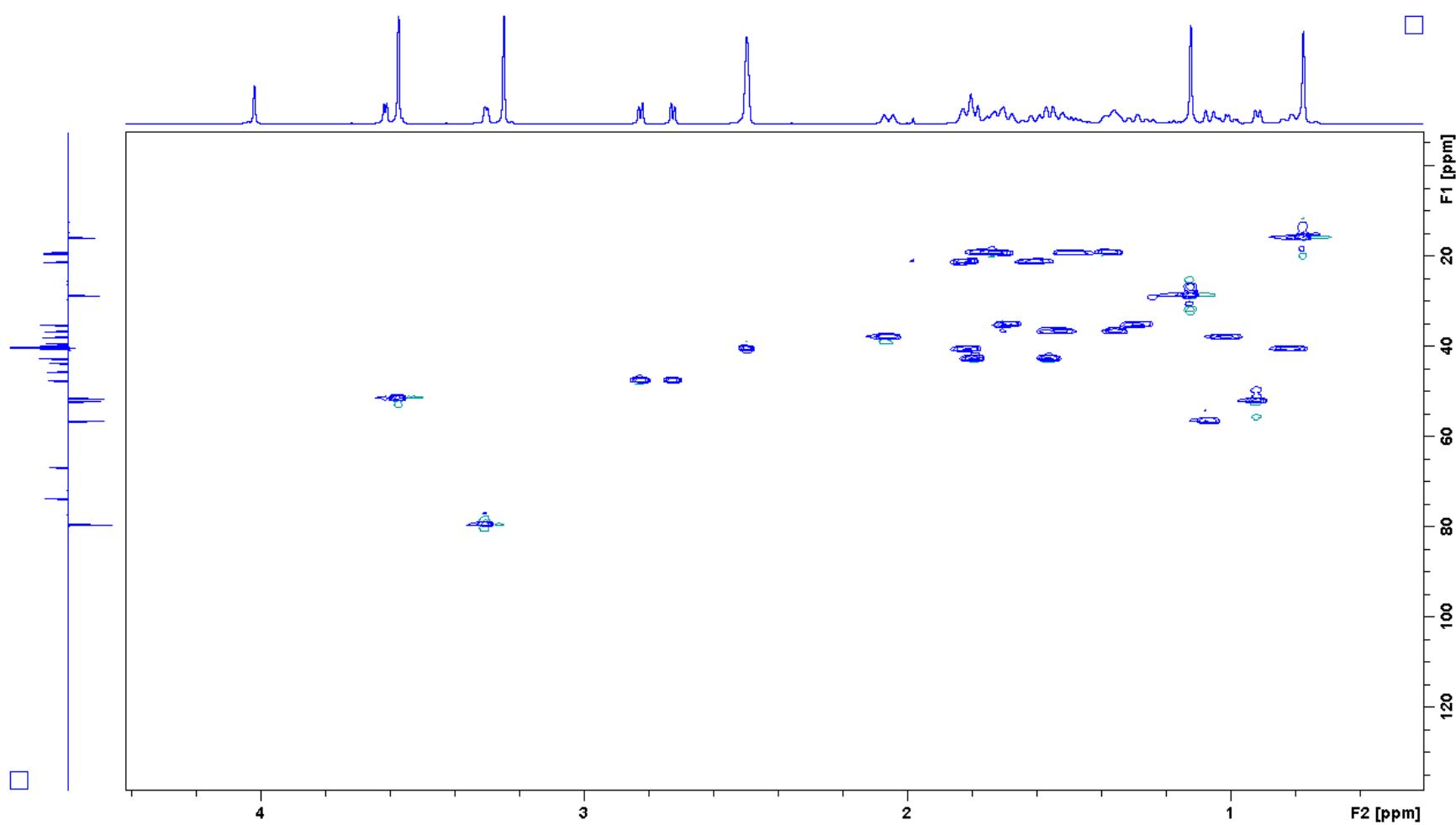
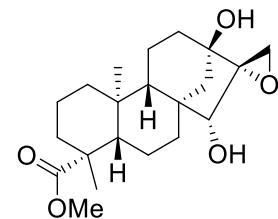
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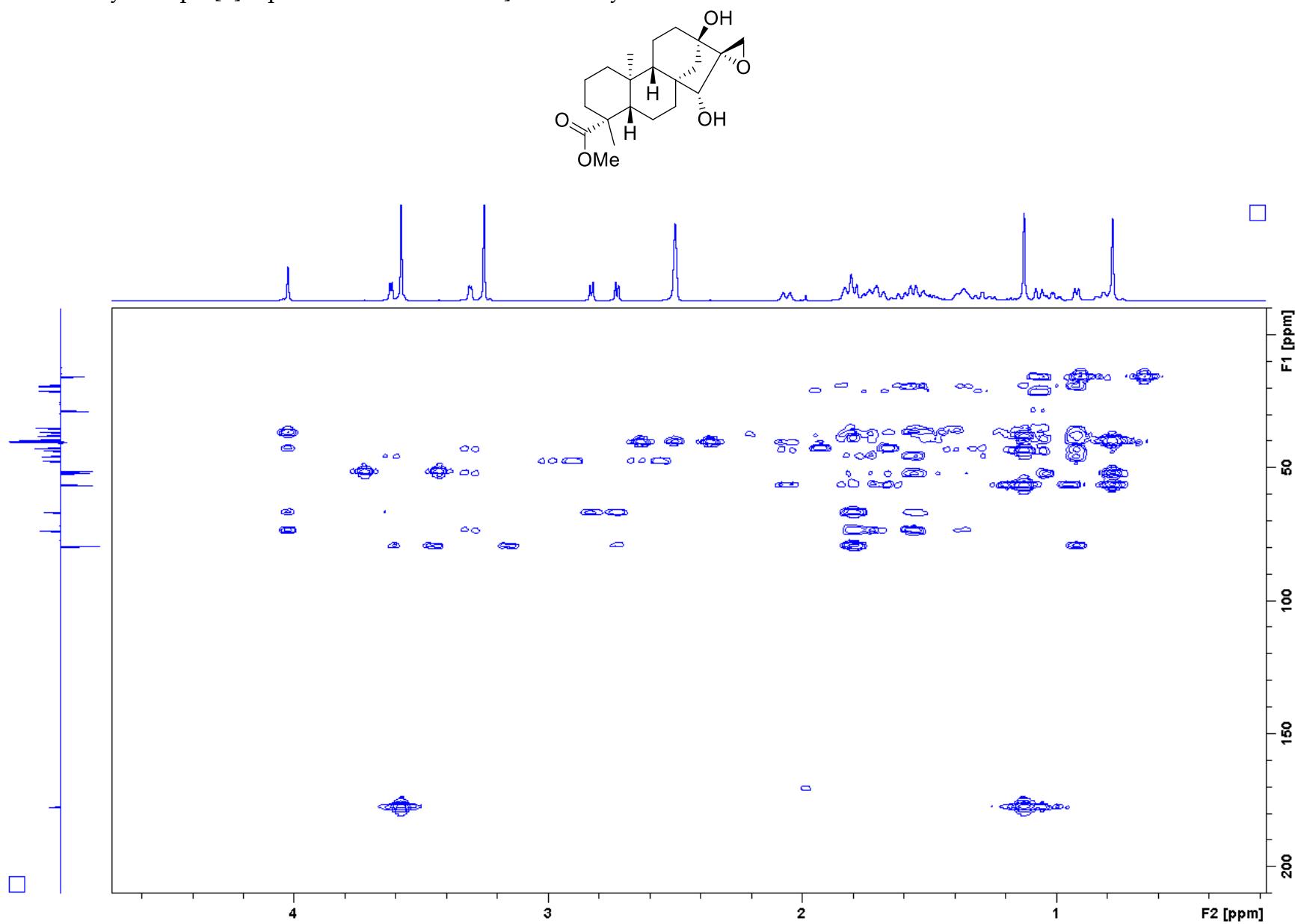
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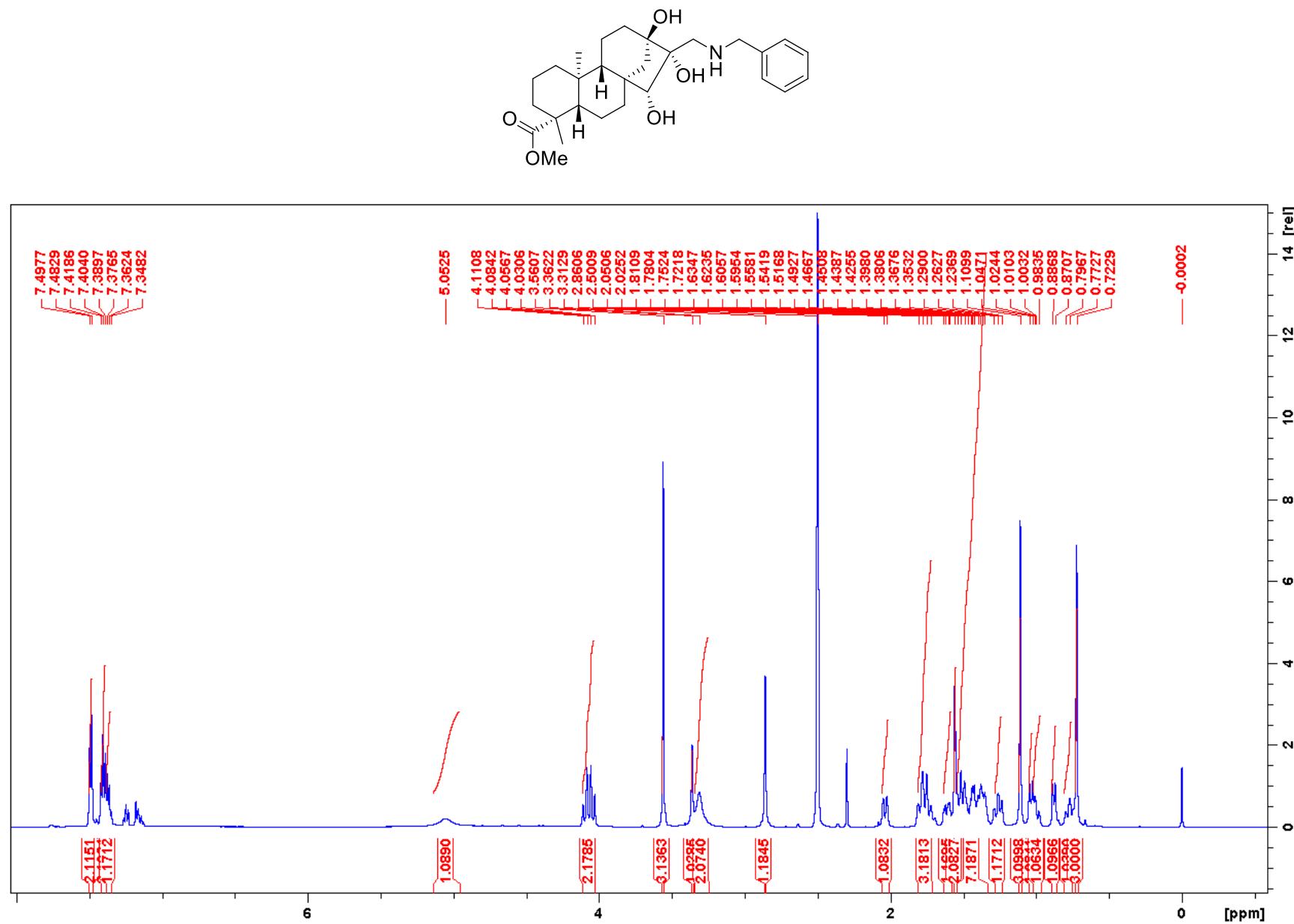
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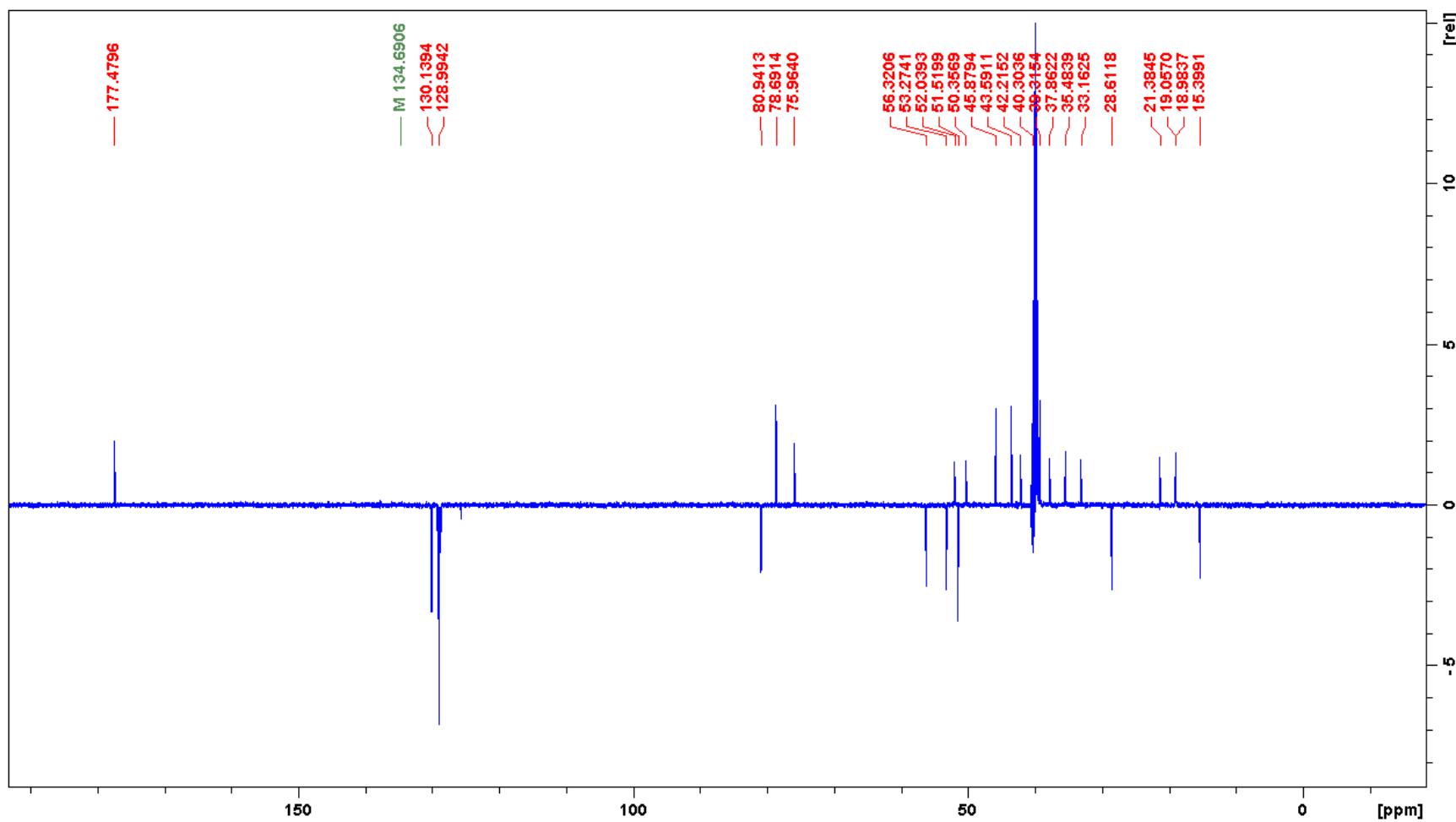
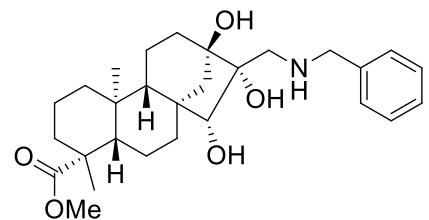
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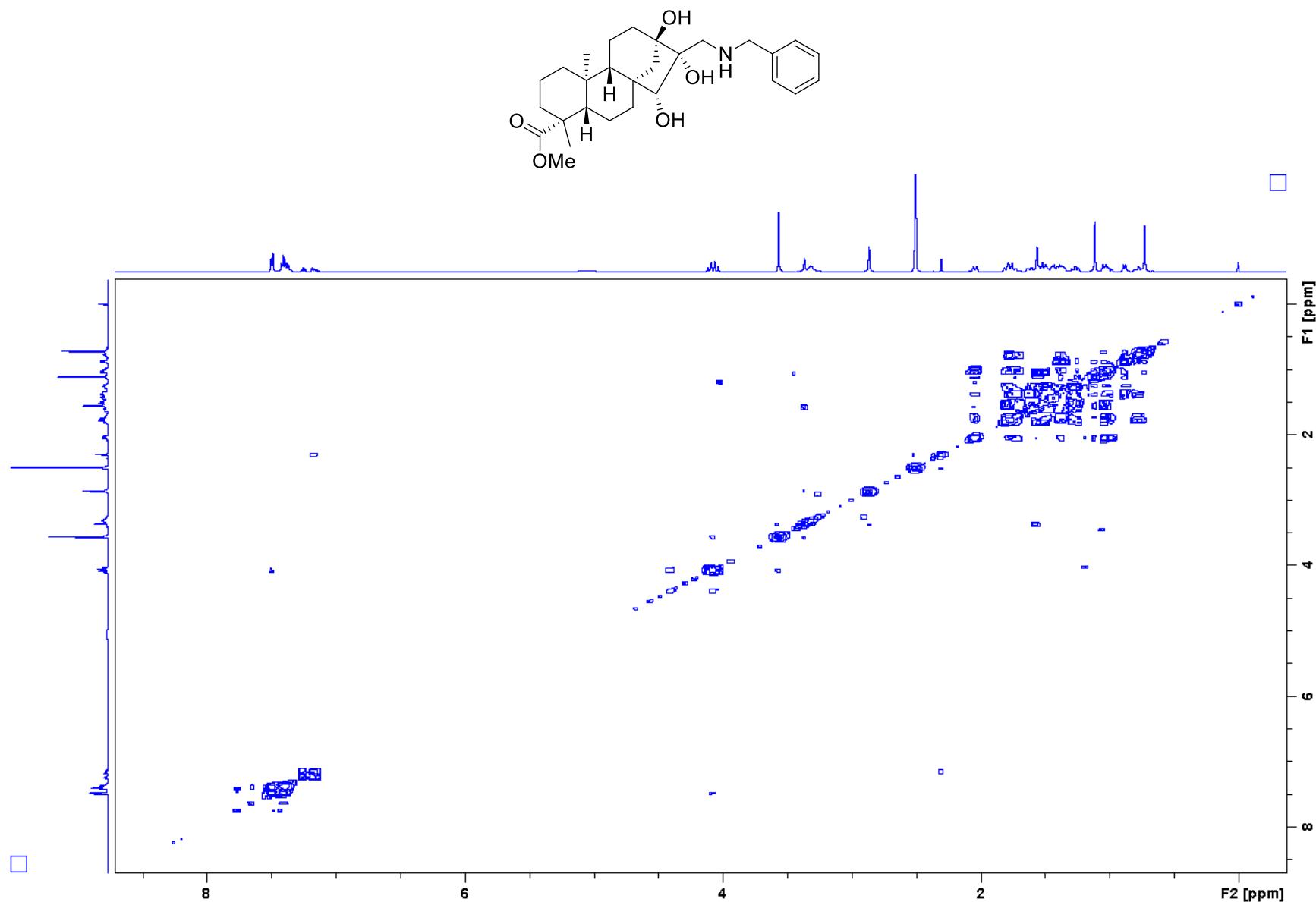
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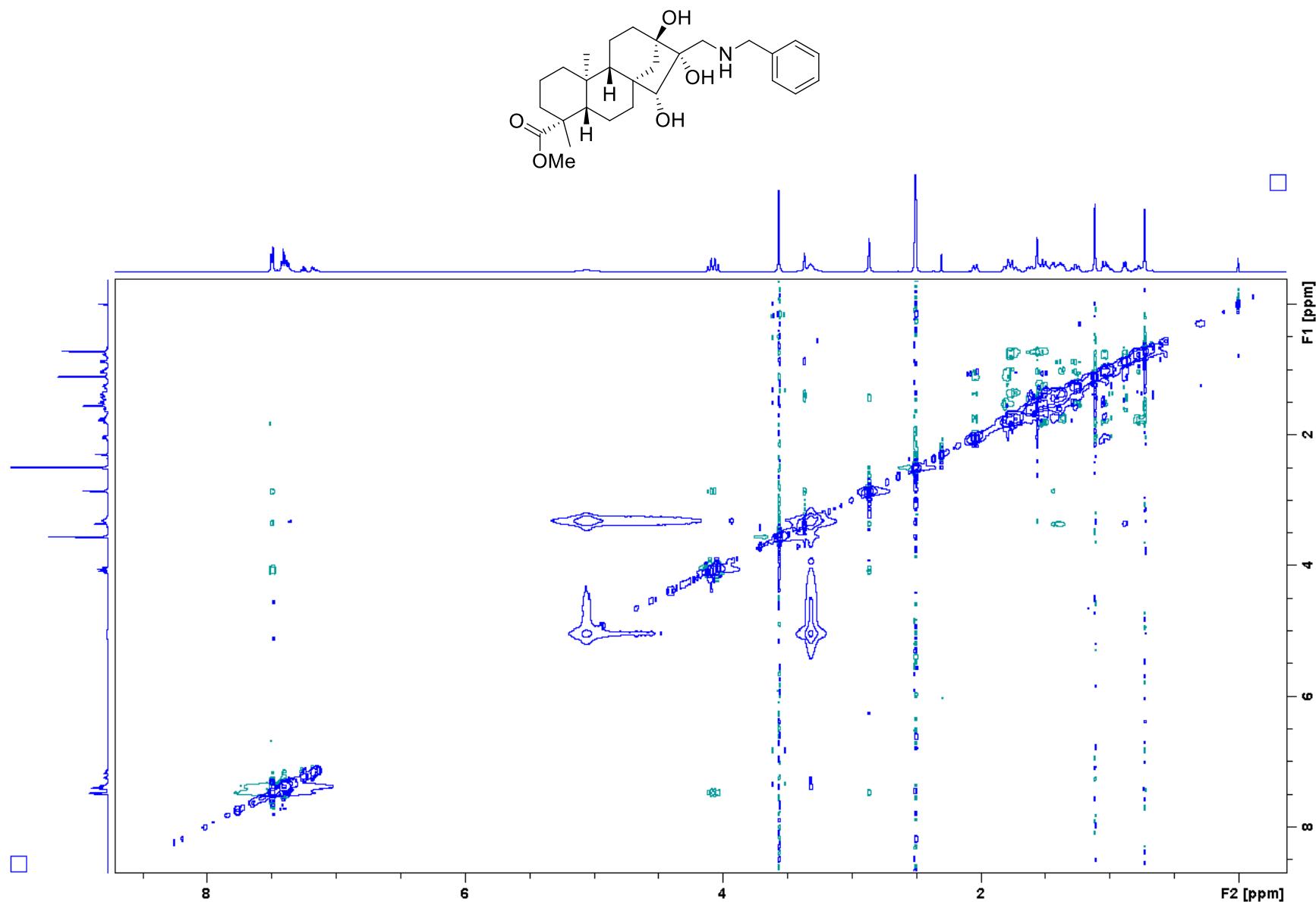
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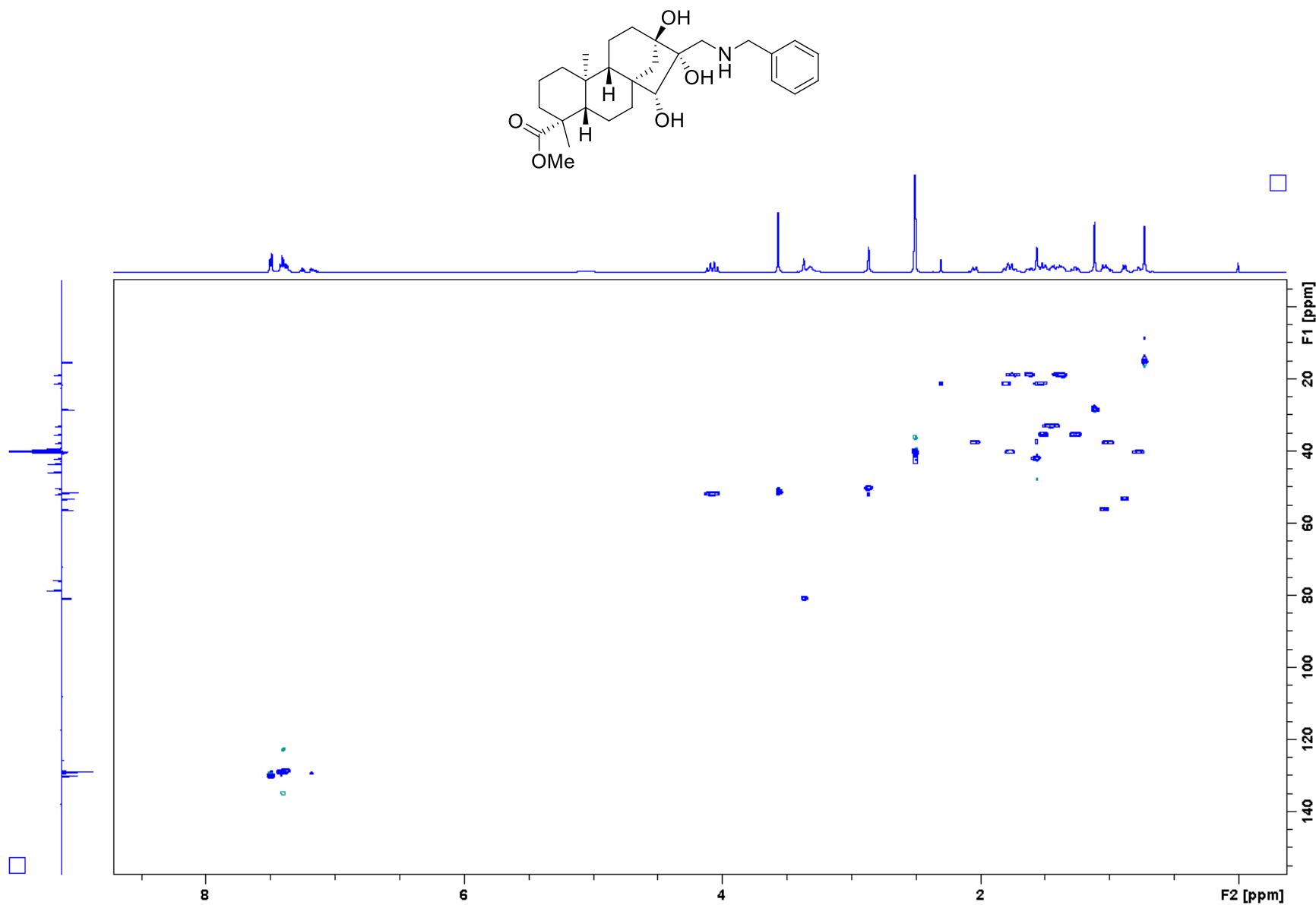
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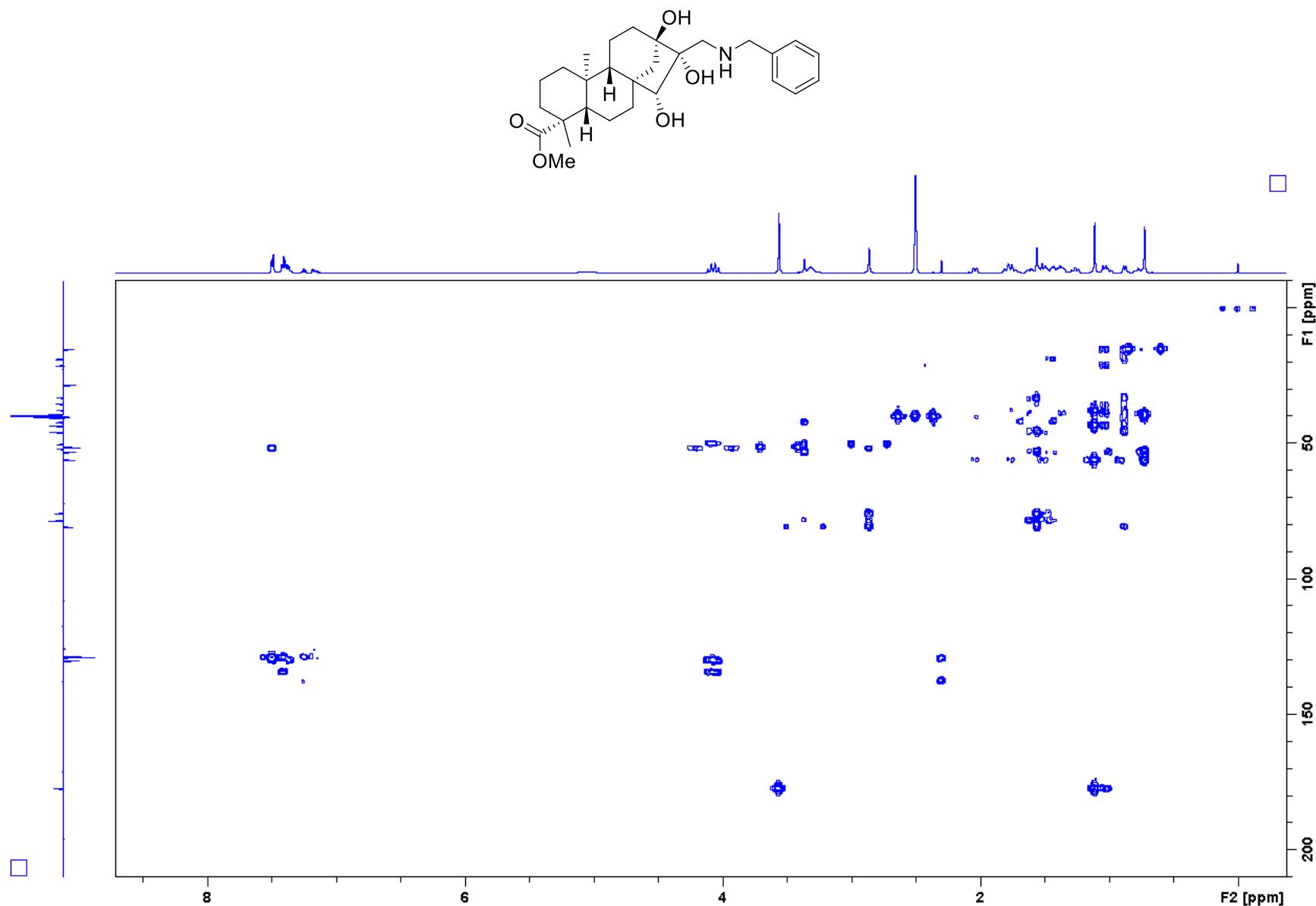
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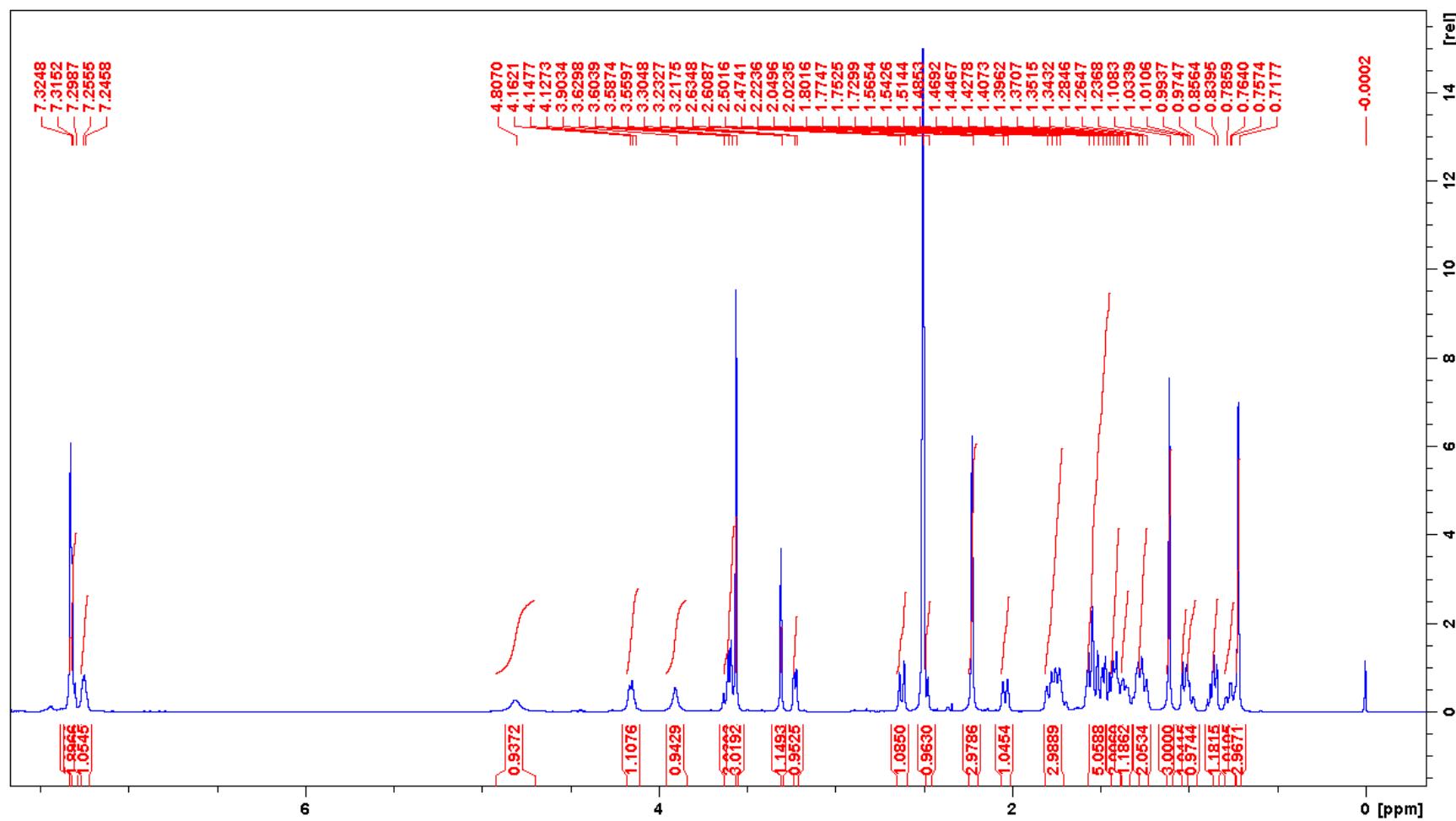
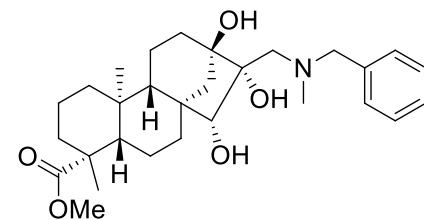
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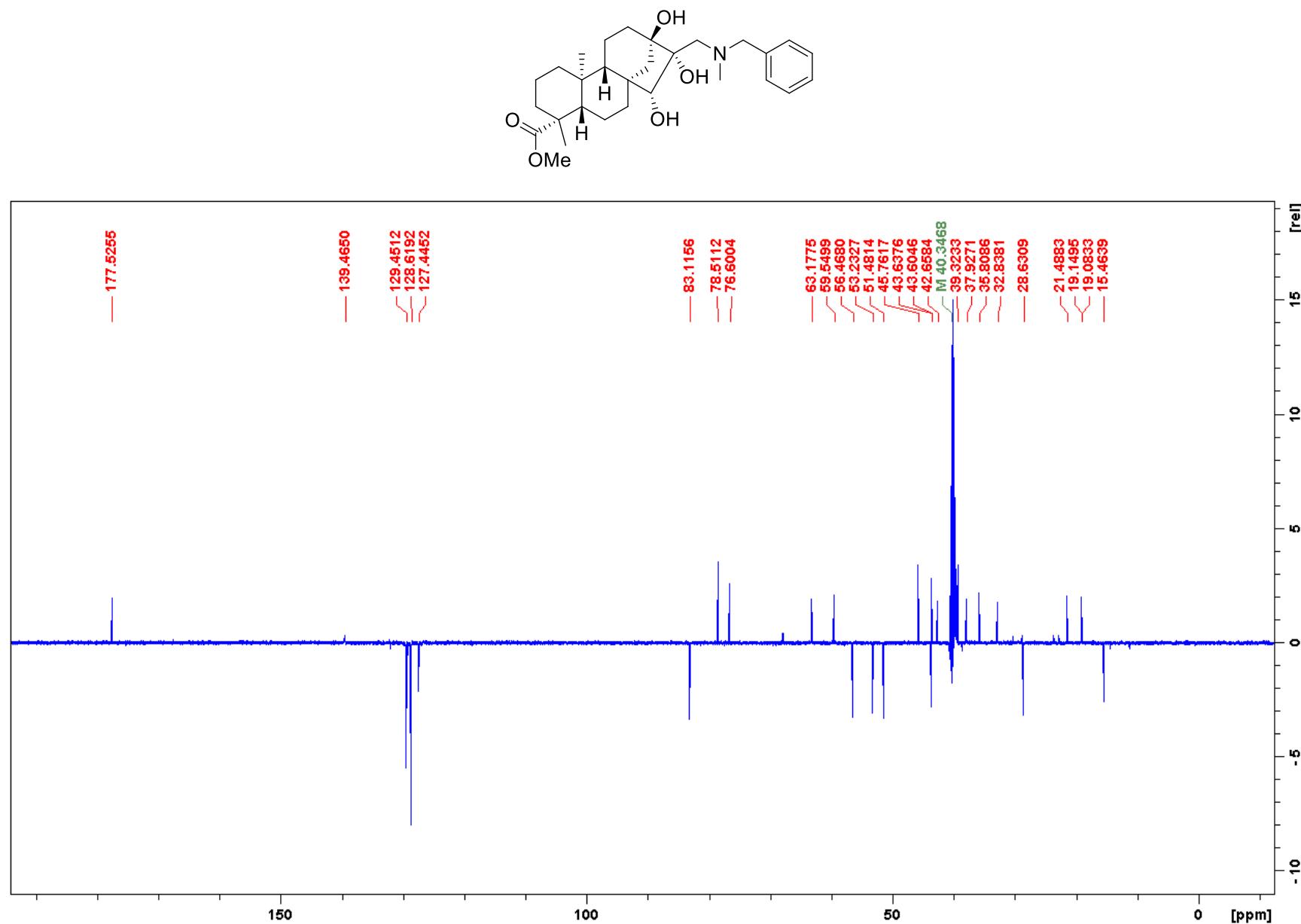
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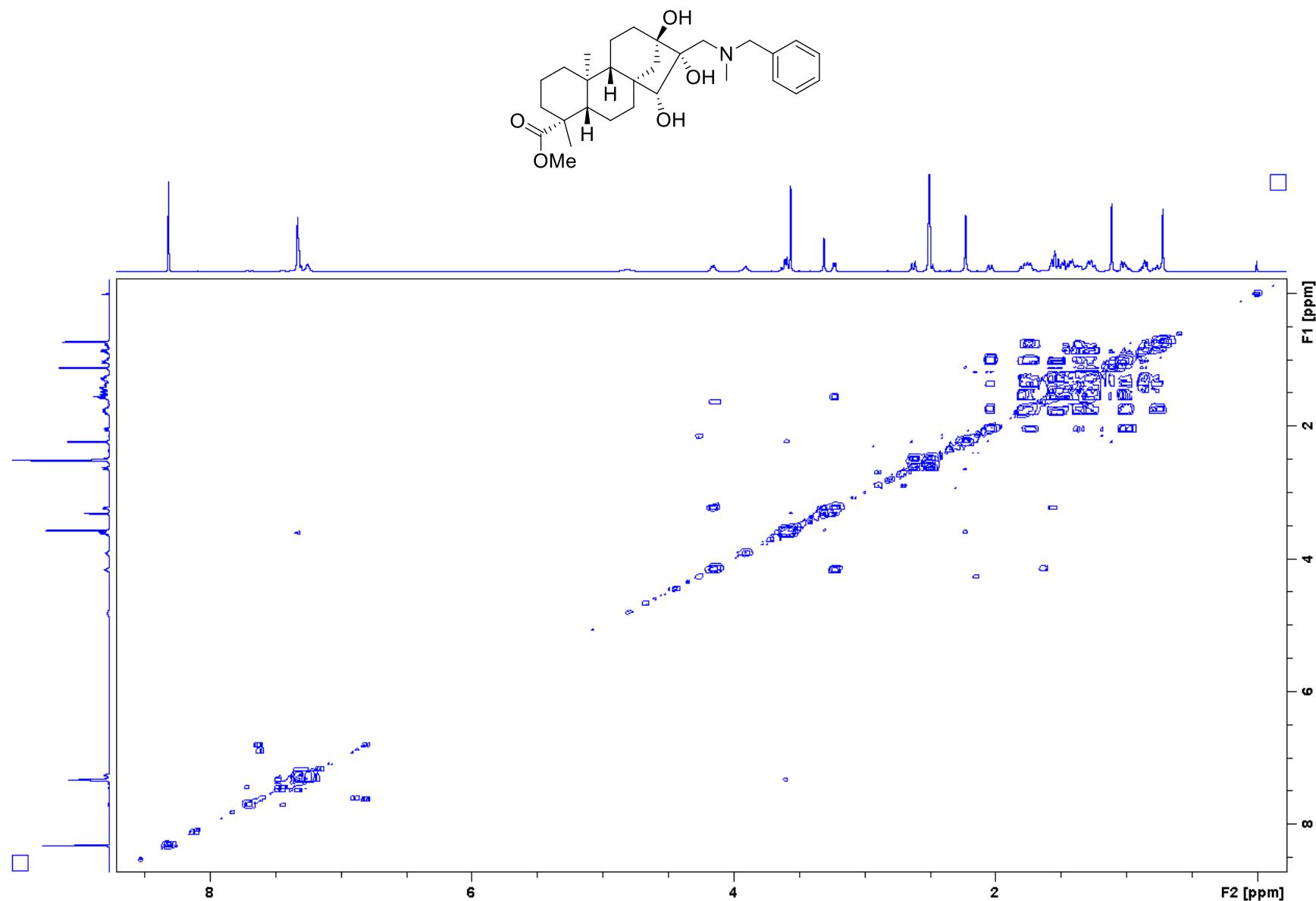
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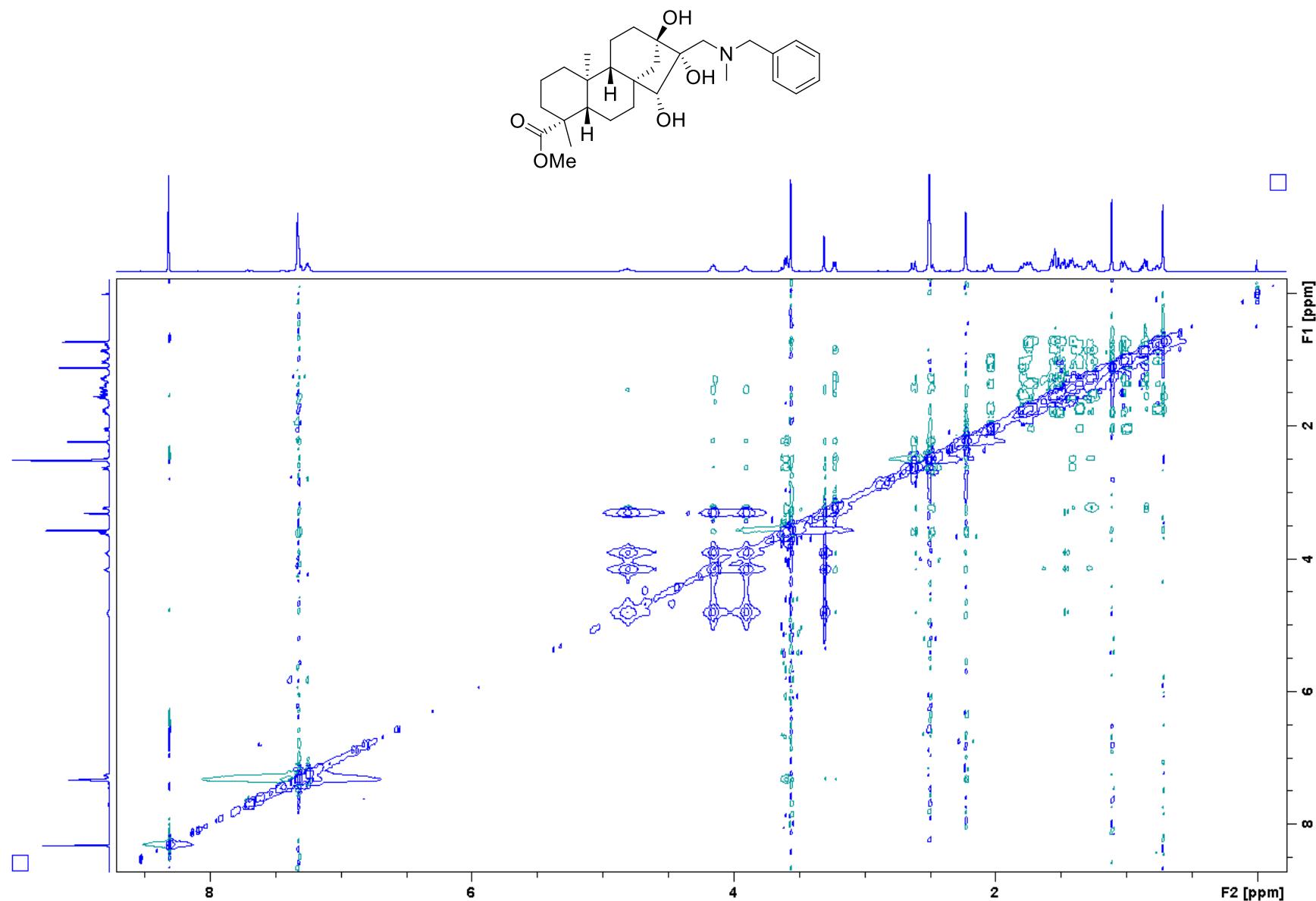
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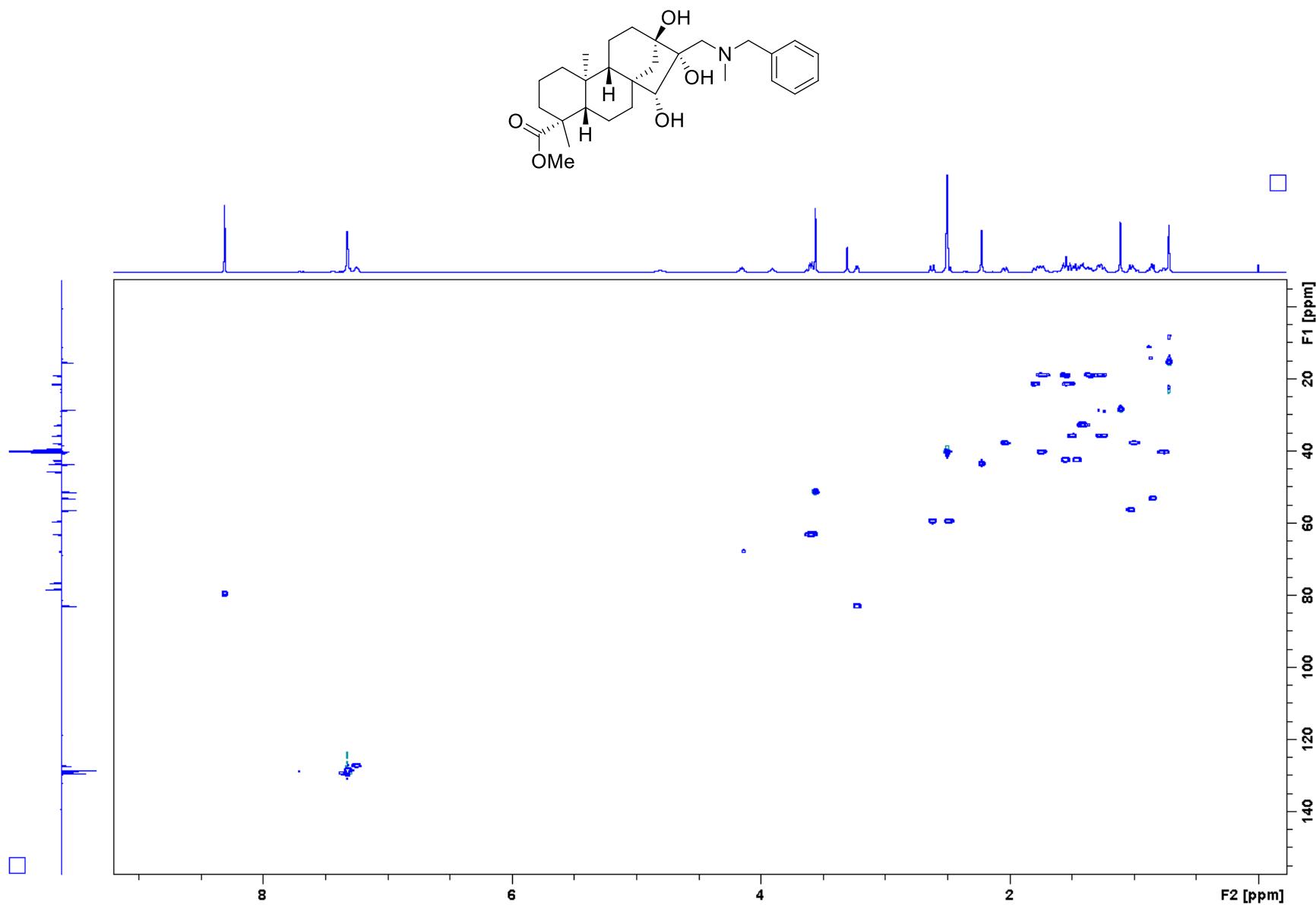
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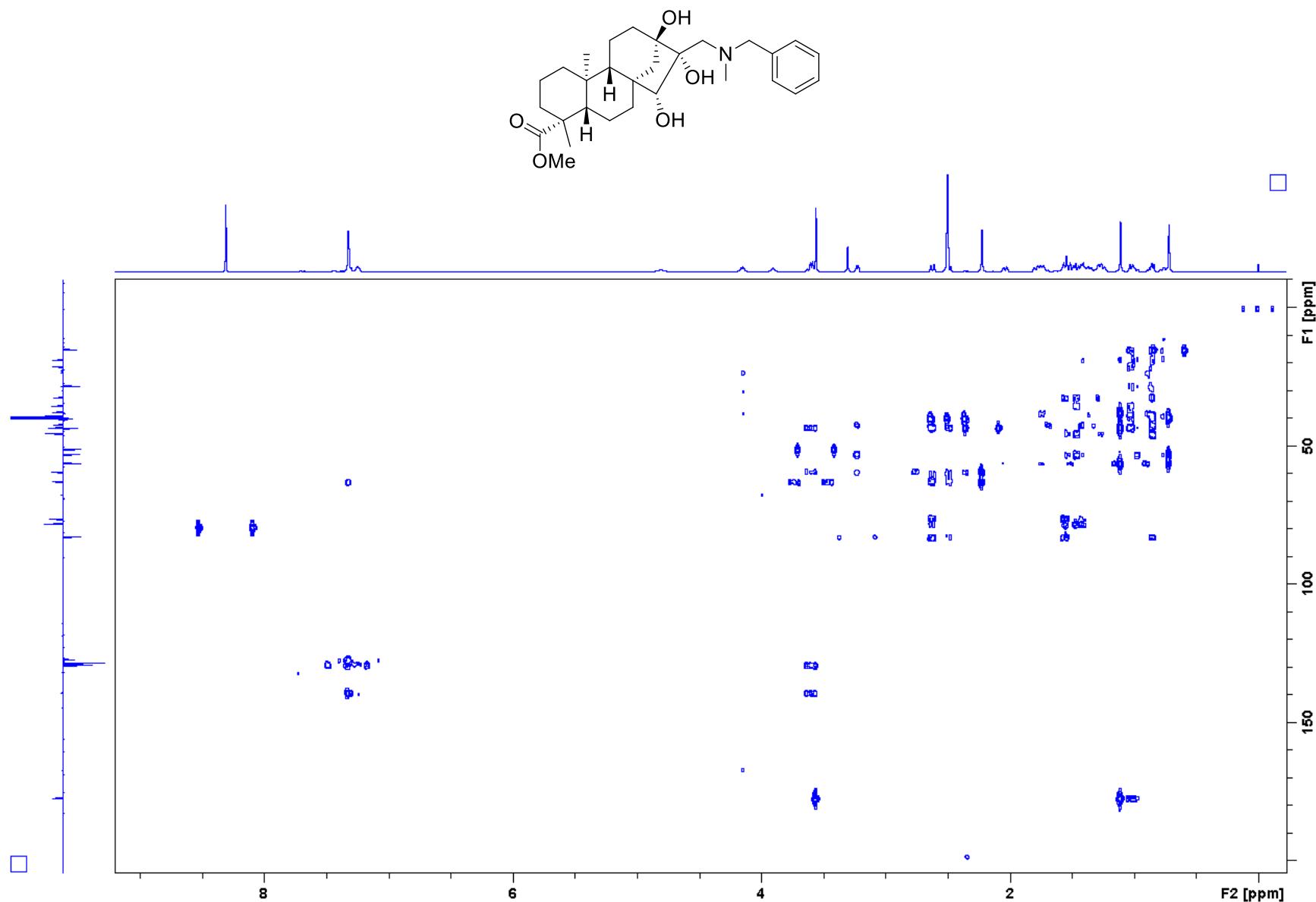
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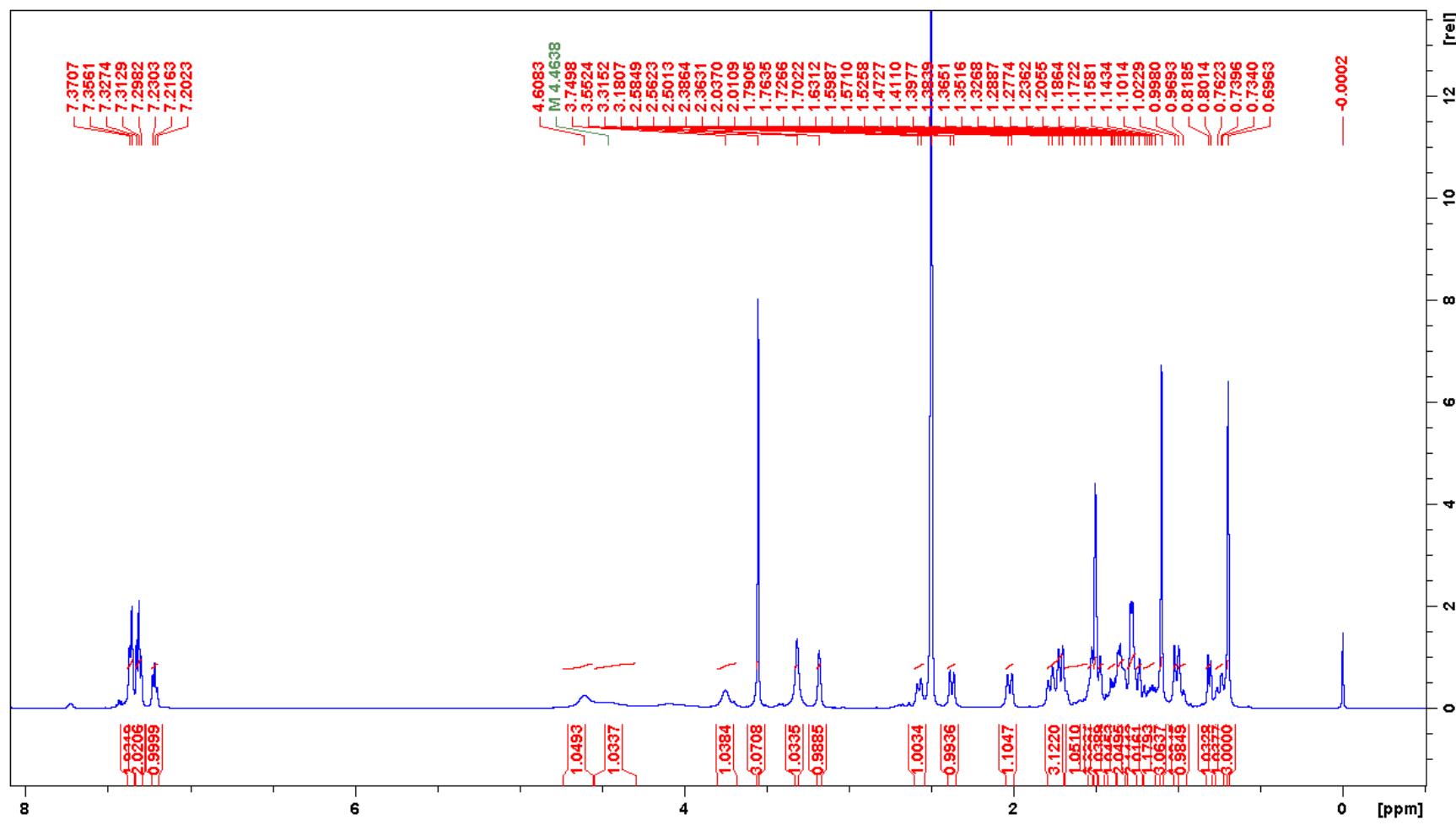
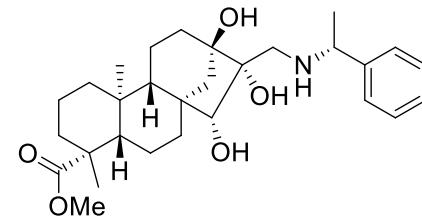
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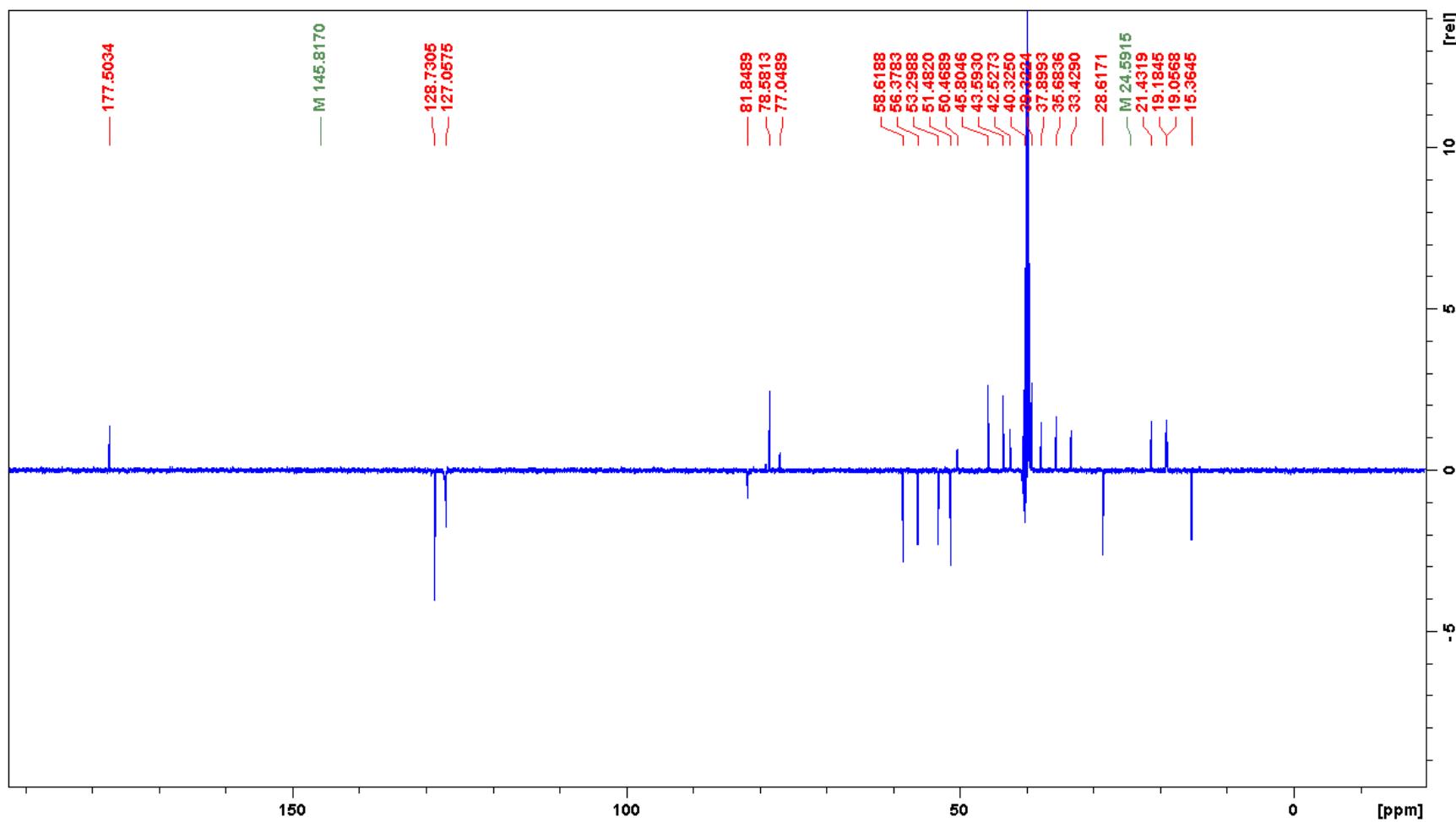
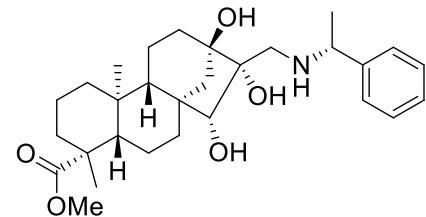
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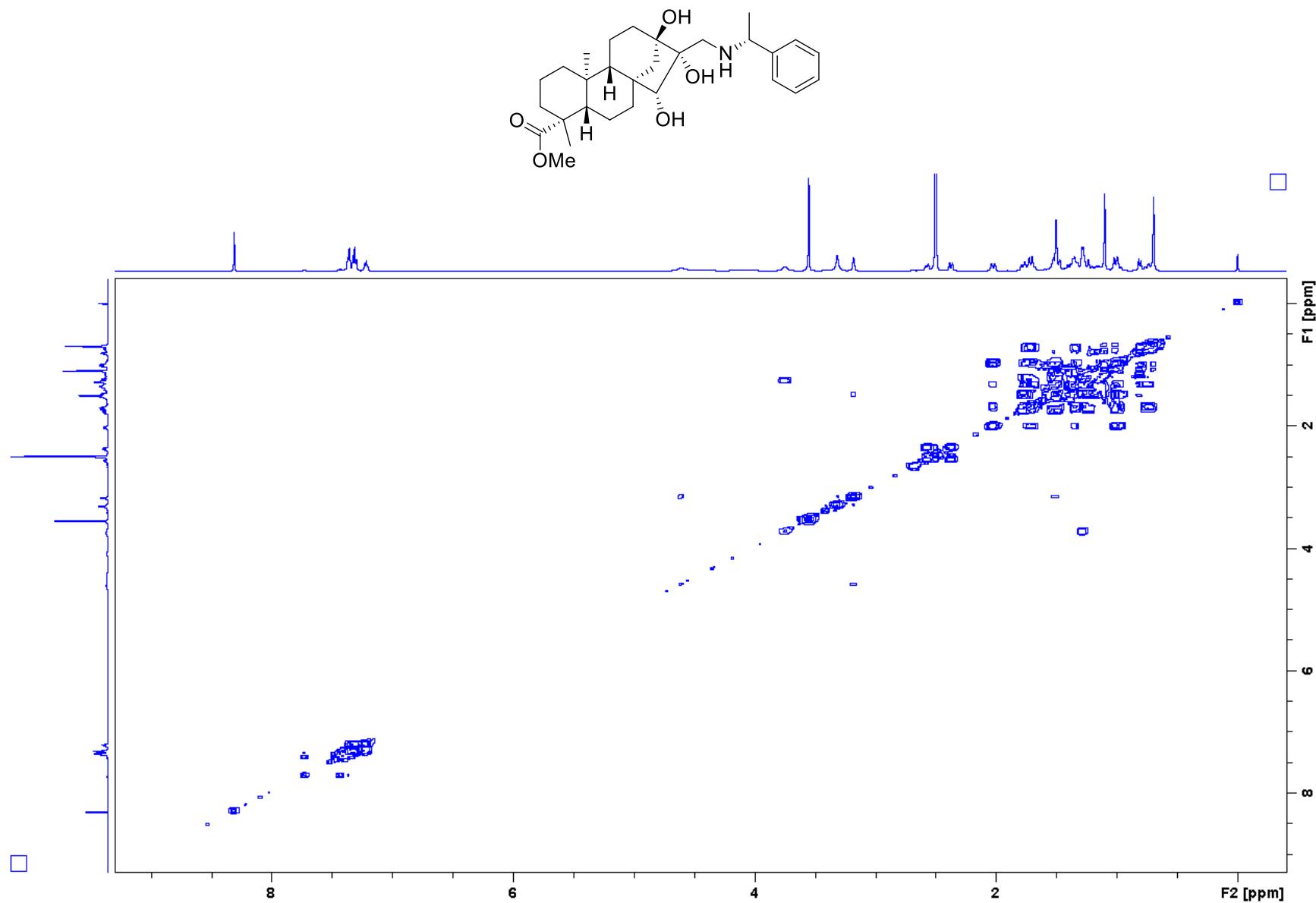
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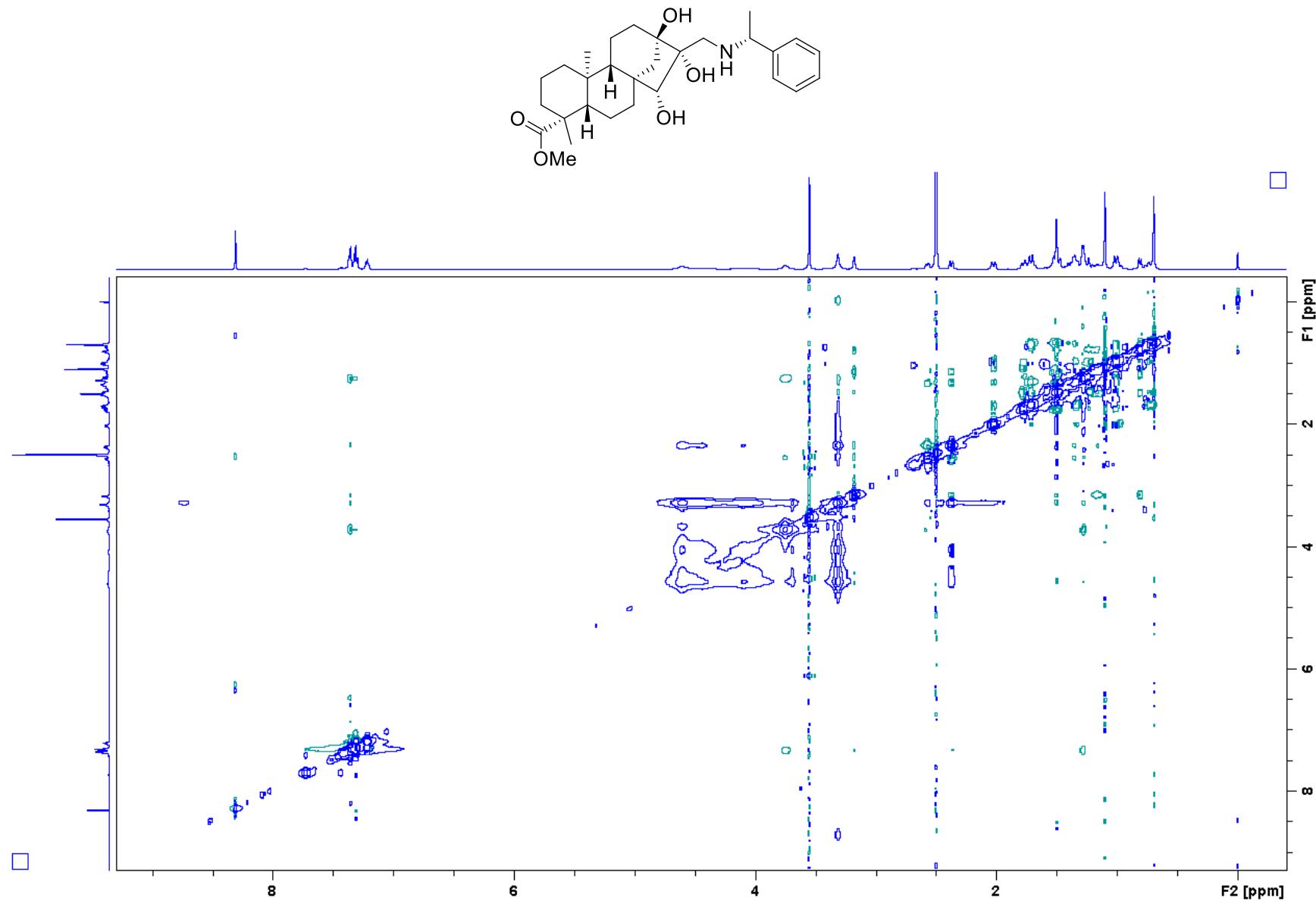
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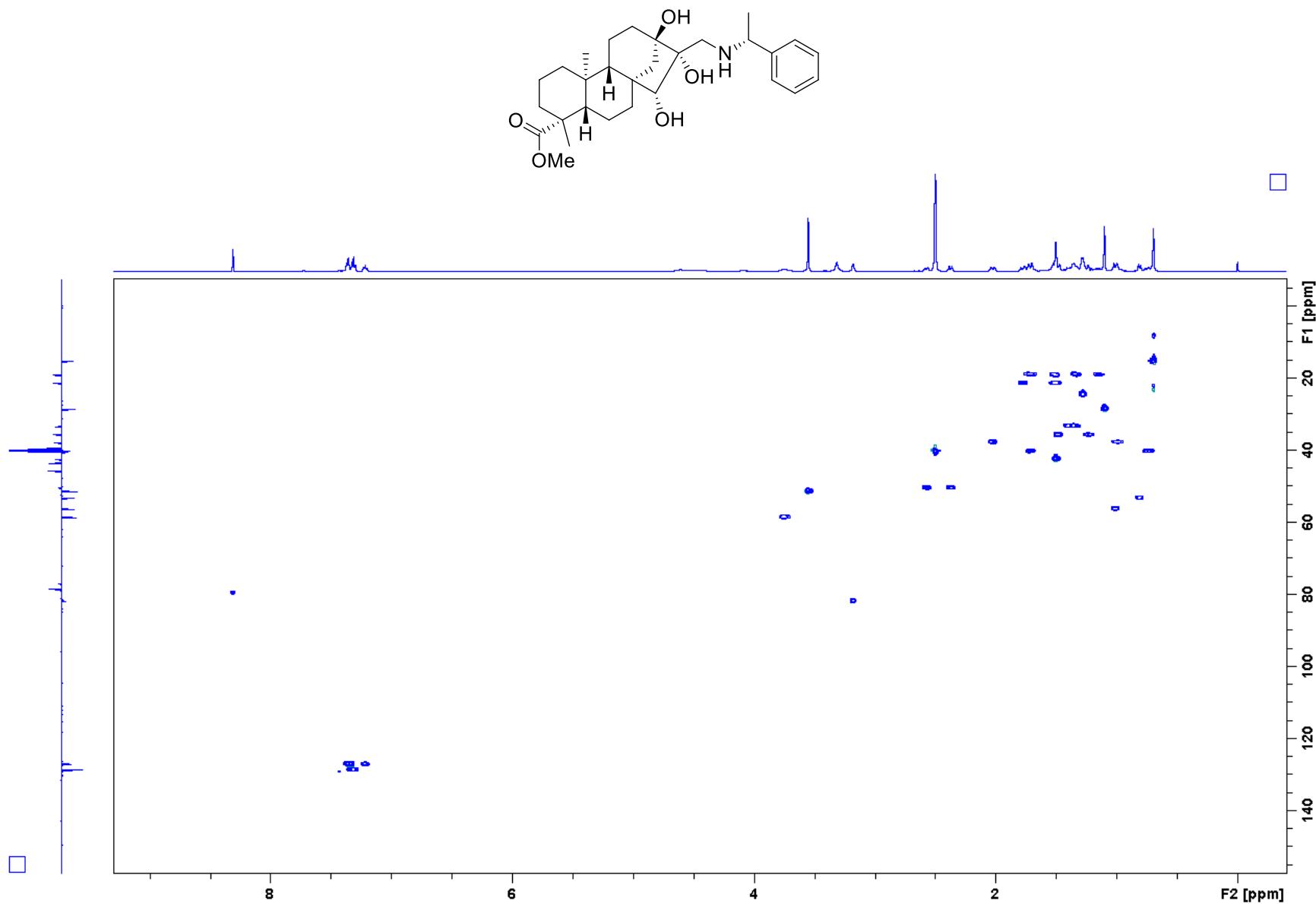
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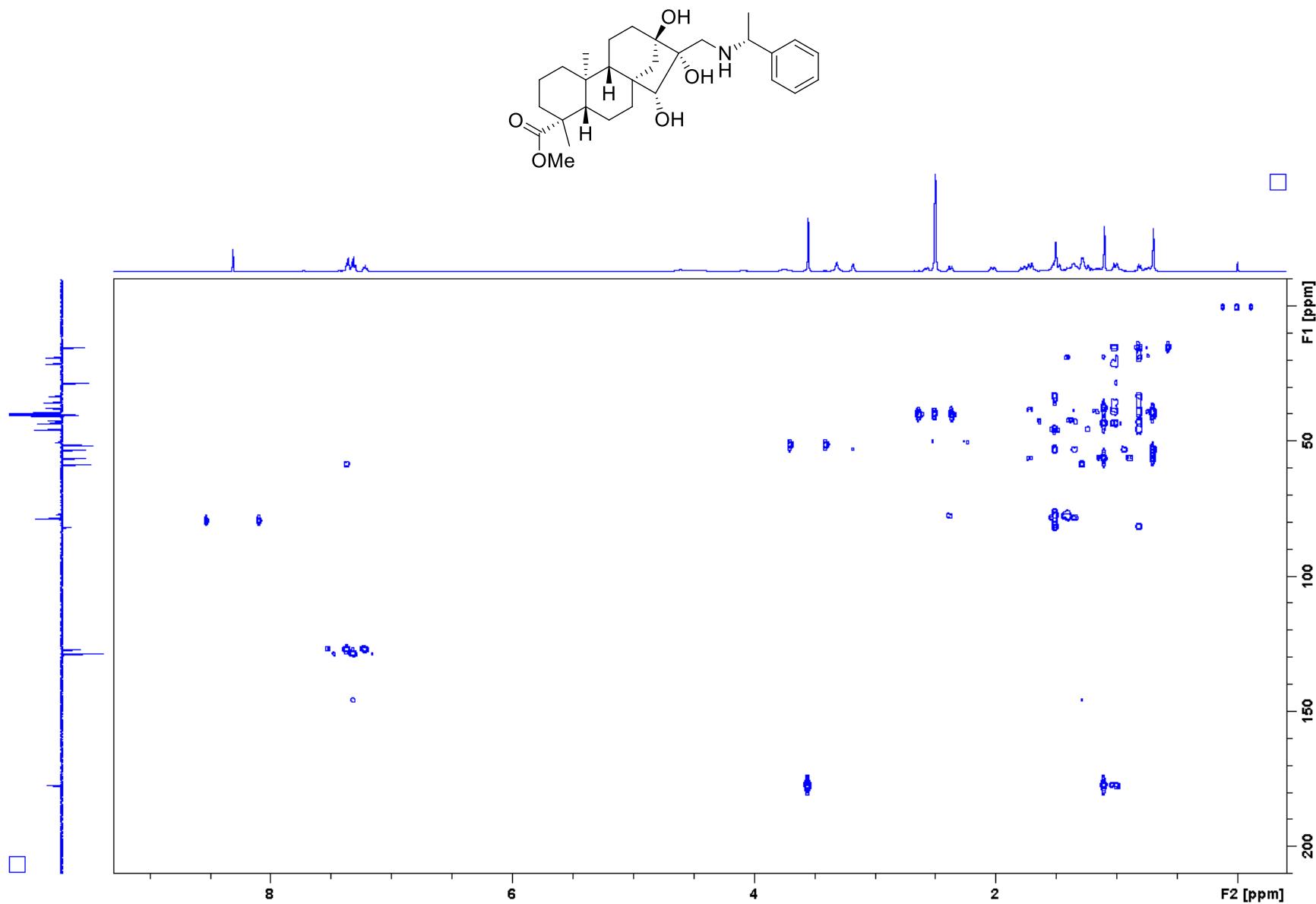
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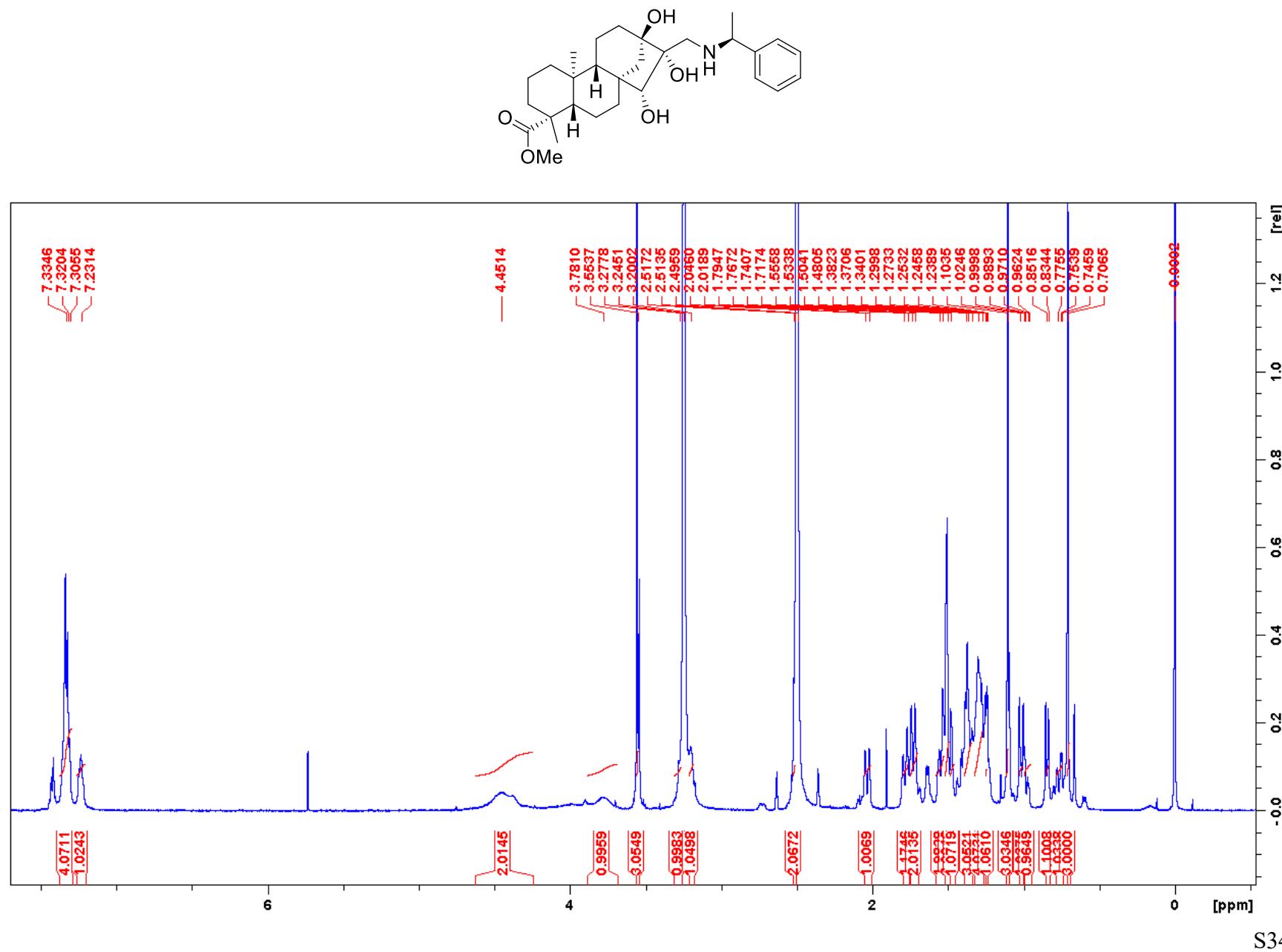
HSQC of compound (4*R*,6*aR*,7*R*,8*R*,9*S*,11*bS*)-methyl 7,8,9-trihydroxy-4,11*b*-dimethyl-8-(((*R*)-1-phenylethyl)amino)methyl)tetradecahydro-6*a*,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**7**)



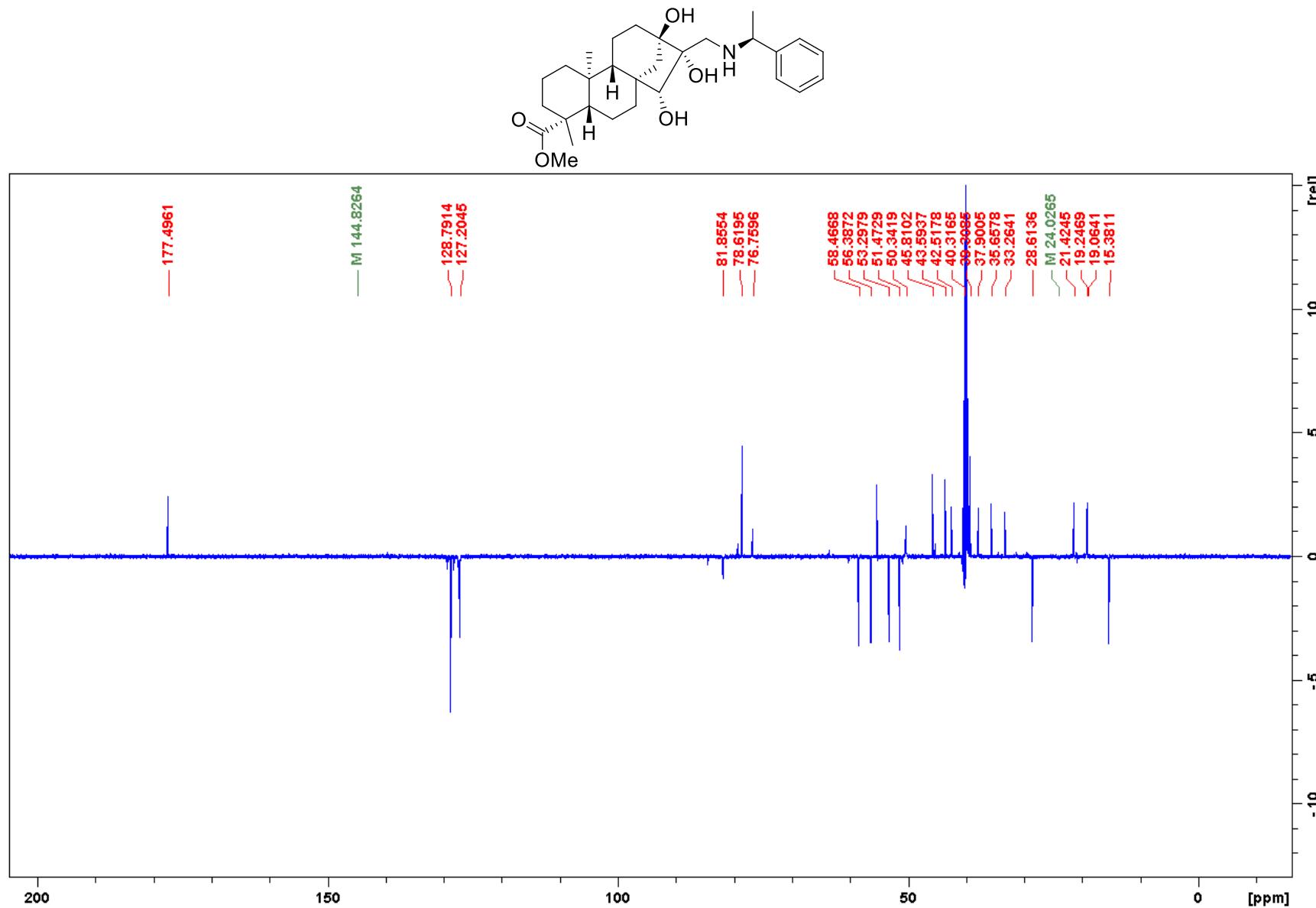
HMBC of compound (*4R,6aR,7R,8R,9S,11bS*)-methyl 7,8,9-trihydroxy-4,11b-dimethyl-8-(((*R*)-1-phenylethyl)amino)methyl)tetradecahydro-6a,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (7)



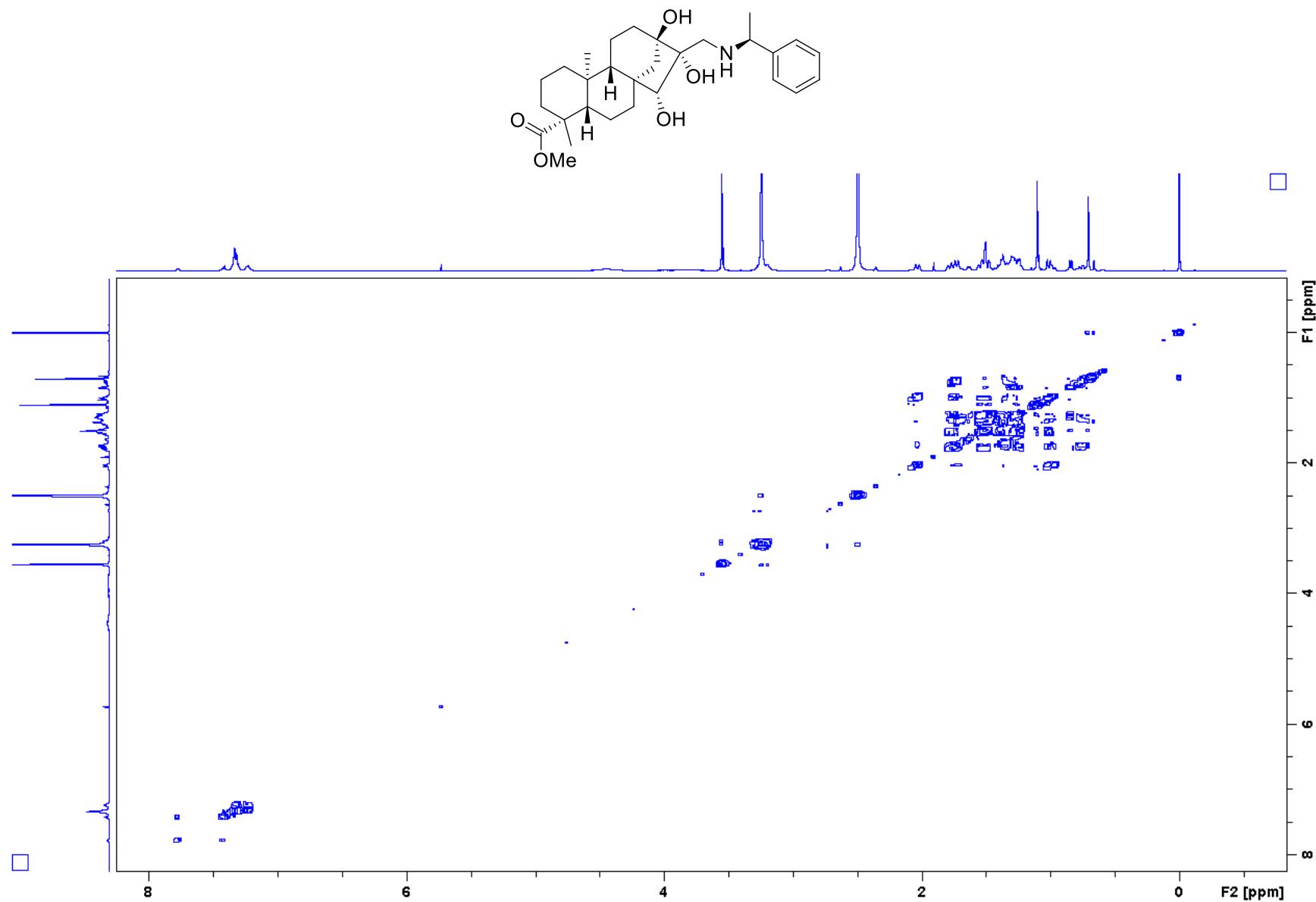
<sup>1</sup>H-NMR of compound (4*R*,6*aR*,7*R*,8*R*,9*S*,11*bS*)-methyl 7,8,9-trihydroxy-4,11*b*-dimethyl-8-(((*S*)-1-phenylethyl)amino)methyl)tetradecahydro-6*a*,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**8**)



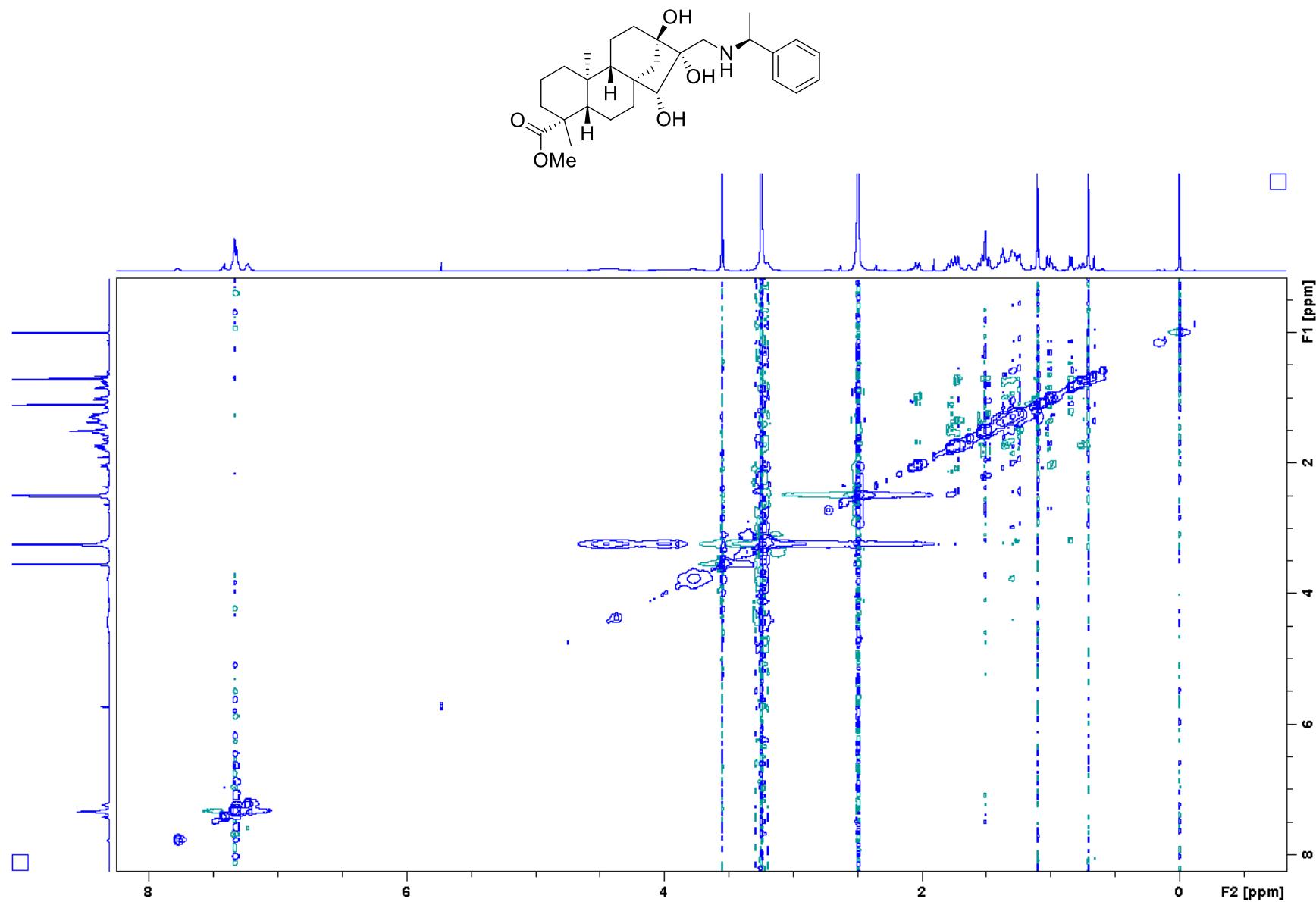
<sup>13</sup>C-NMR of compound (4*R*,6*aR*,7*R*,8*R*,9*S*,11*bS*)-methyl 7,8,9-trihydroxy-4,11*b*-dimethyl-8-(((*S*)-1-phenylethyl)amino)methyl)tetradecahydro-6*a*,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**8**)



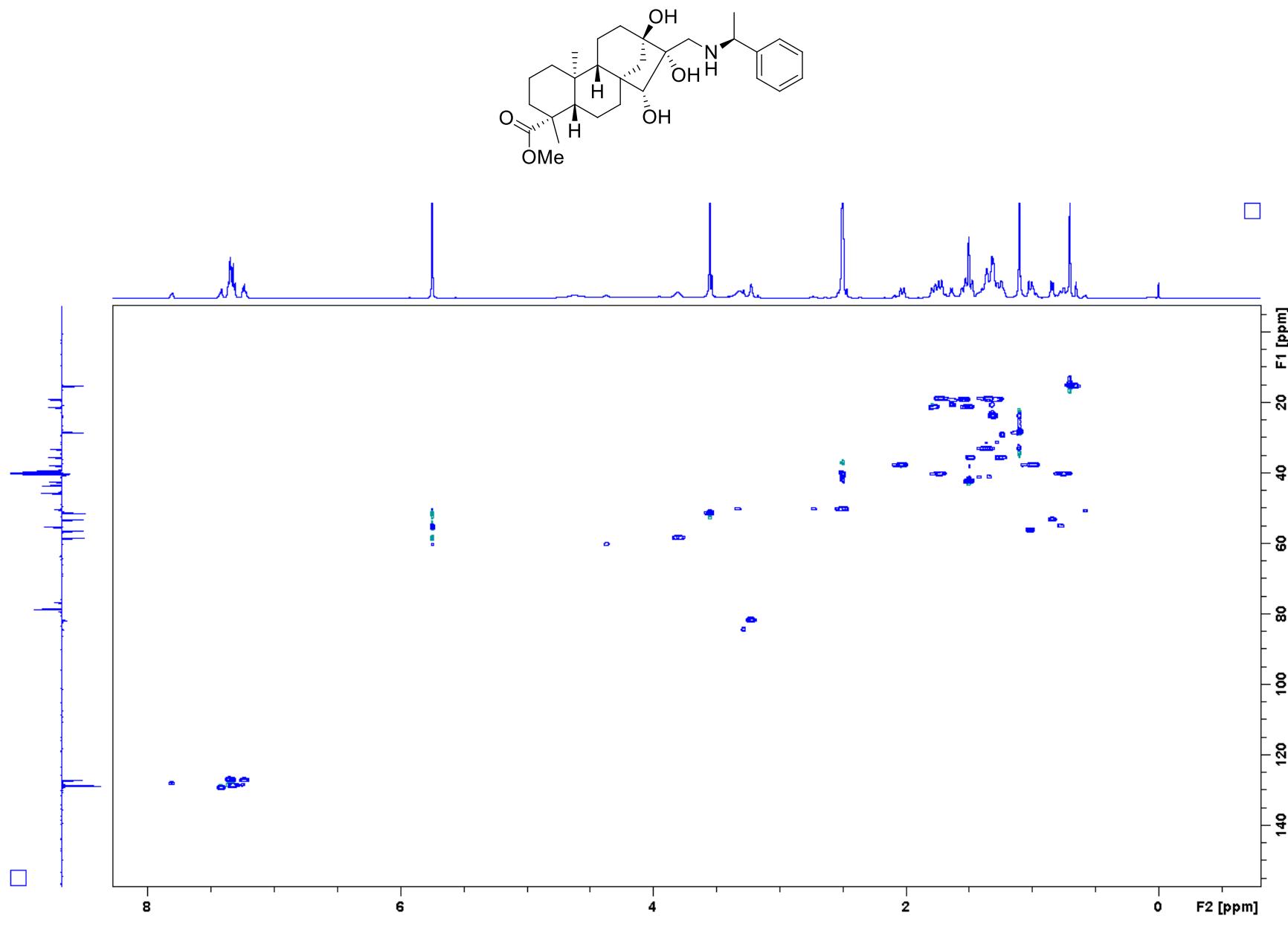
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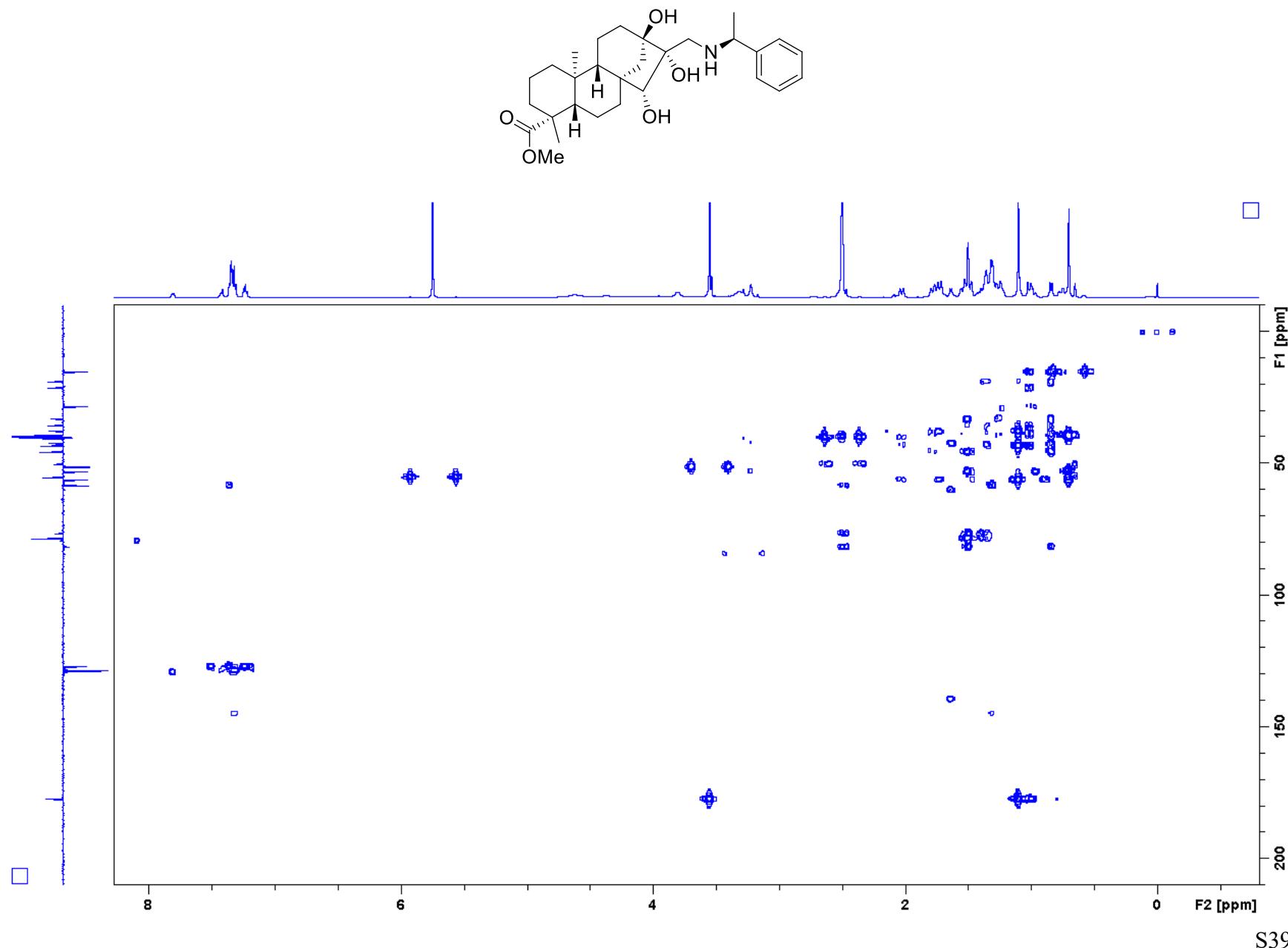
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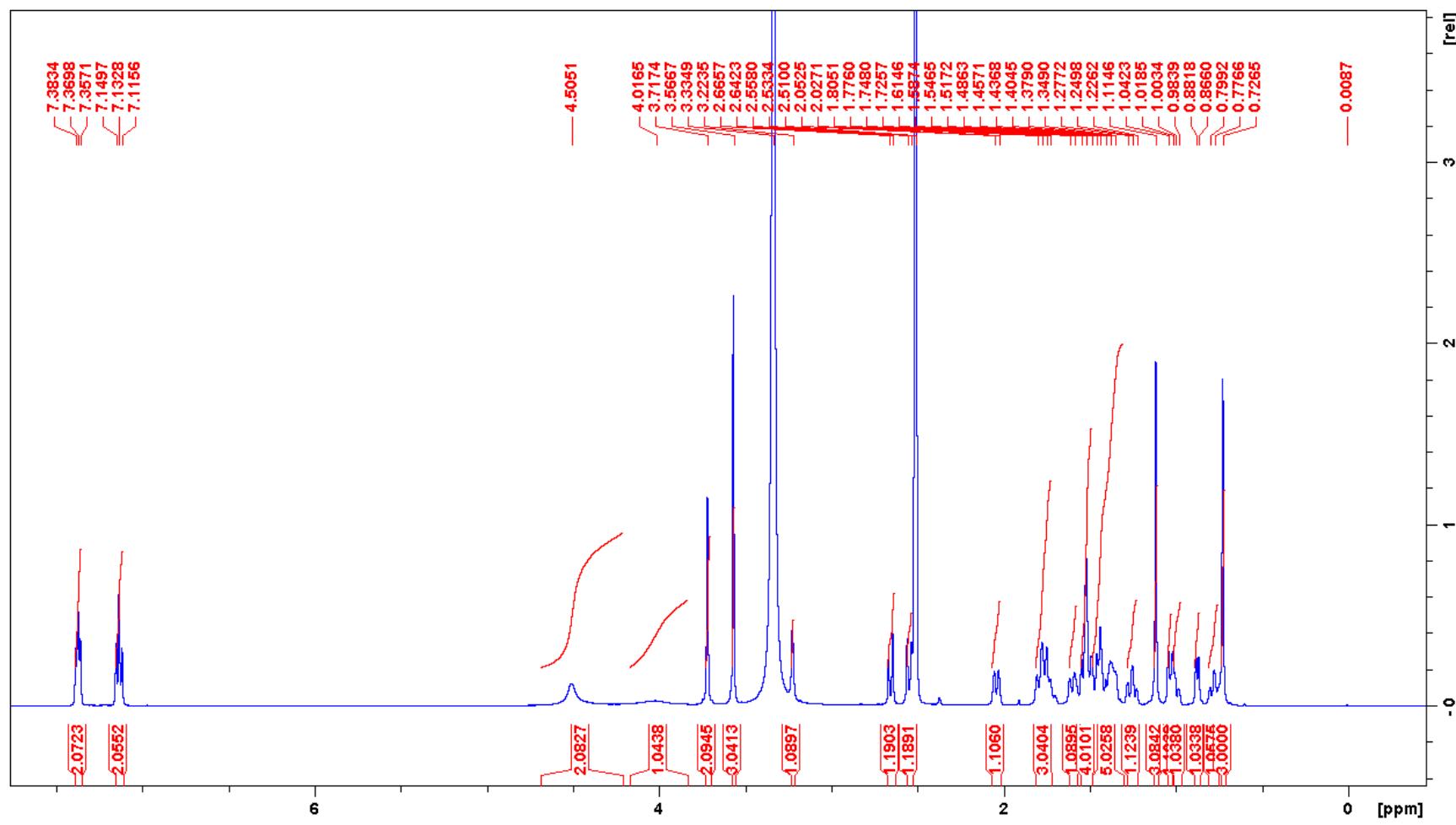
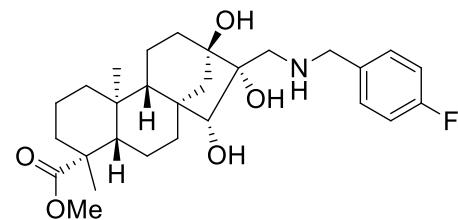
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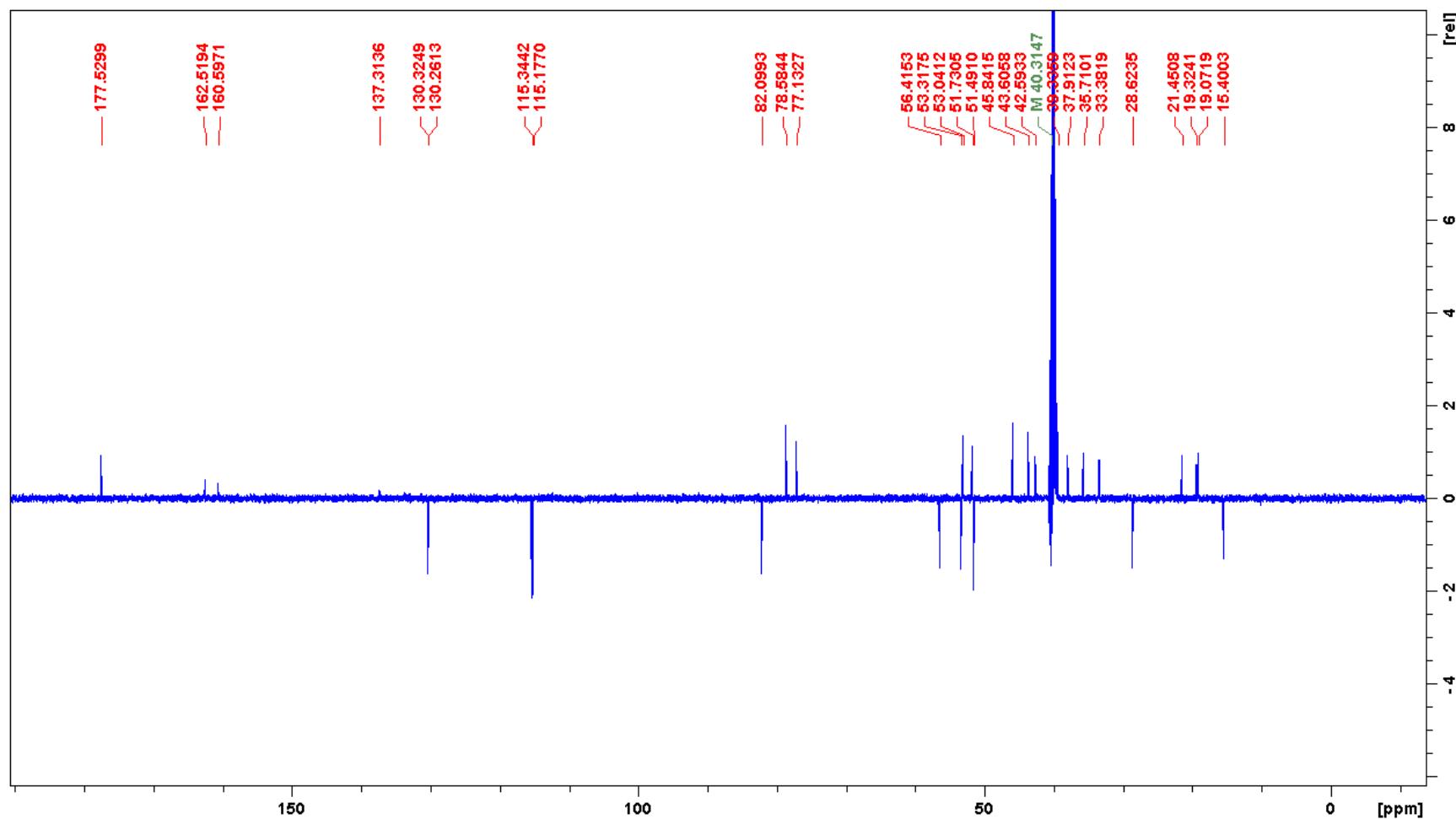
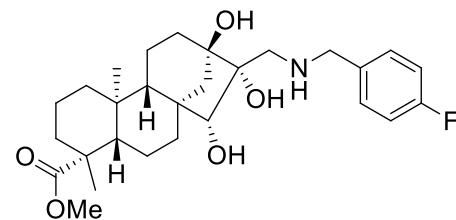
HMBC of compound (*4R,6aR,7R,8R,9S,11bS*)-methyl 7,8,9-trihydroxy-4,11b-dimethyl-8-(((*S*)-1-phenylethyl)amino)methyl)tetradecahydro-6a,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (8)



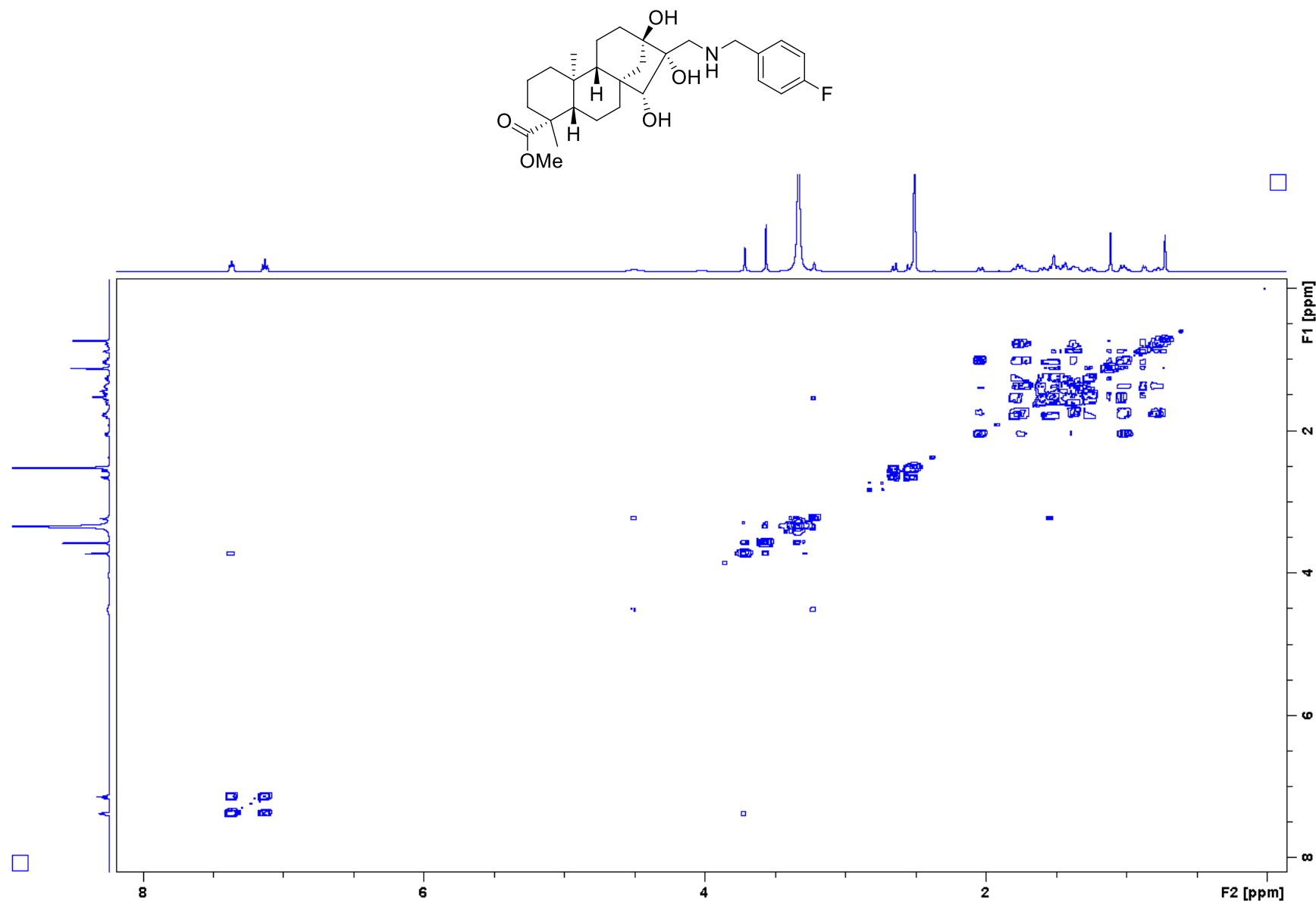
<sup>1</sup>H-NMR of compound (4*R*,6*aR*,7*R*,8*R*,9*S*,11*bS*)-methyl 8-(((4-fluorobenzyl)amino)methyl)-7,8,9-trihydroxy-4,11*b*-dimethyltetradecahydro-6*a*,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**9**)



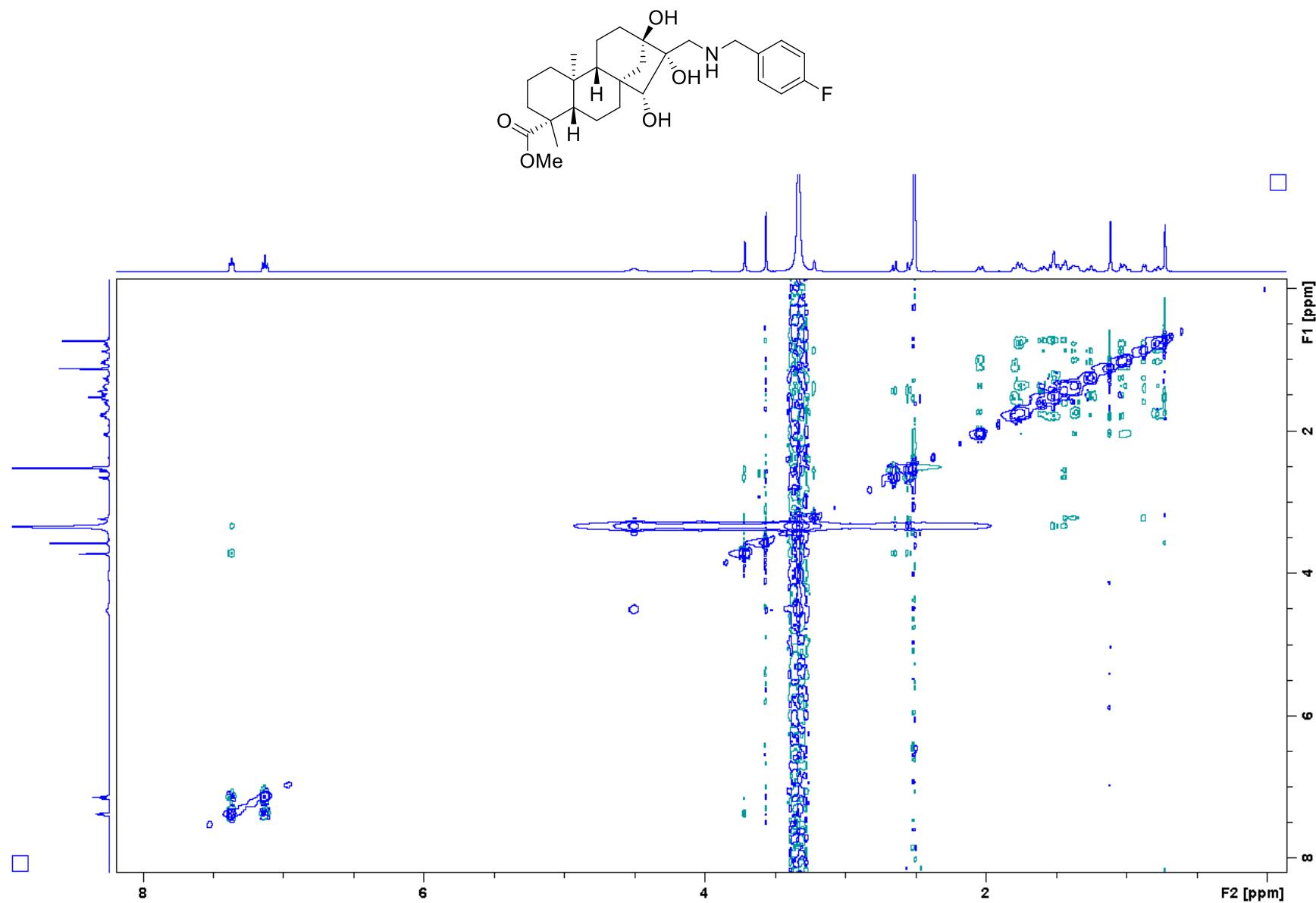
<sup>13</sup>C-NMR of compound (4*R*,6*aR*,7*R*,8*R*,9*S*,11*bS*)-methyl 8-(((4-fluorobenzyl)amino)methyl)-7,8,9-trihydroxy-4,11*b*-dimethyltetradecahydro-6*a*,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**9**)



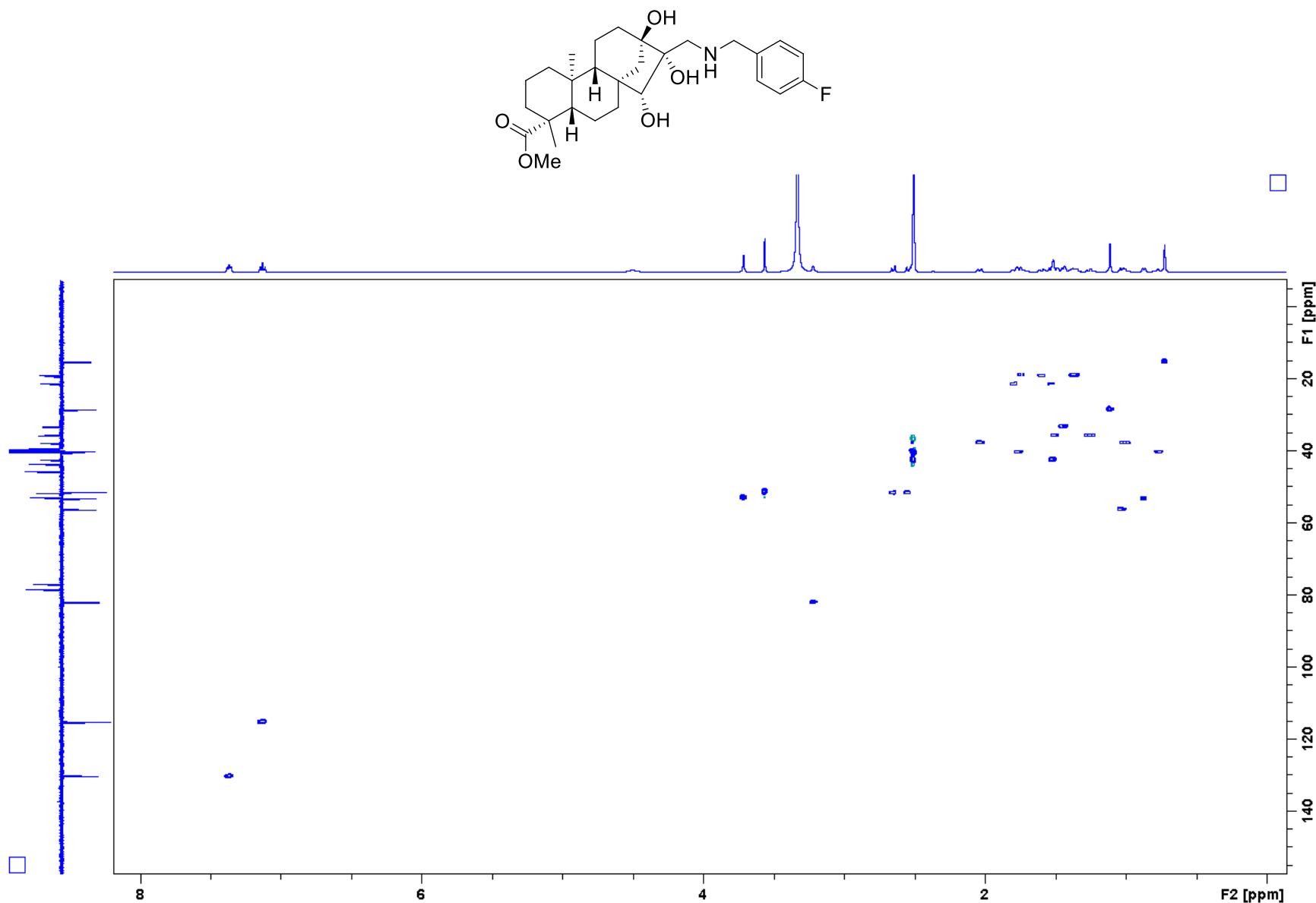
COSY of compound (*4R,6aR,7R,8R,9S,11bS*)-methyl 8-(((4-fluorobenzyl)amino)methyl)-7,8,9-trihydroxy-4,11b-dimethyltetradecahydro-6a,9-methanocyclohepta[a]naphthalene-4-carboxylate (**9**)



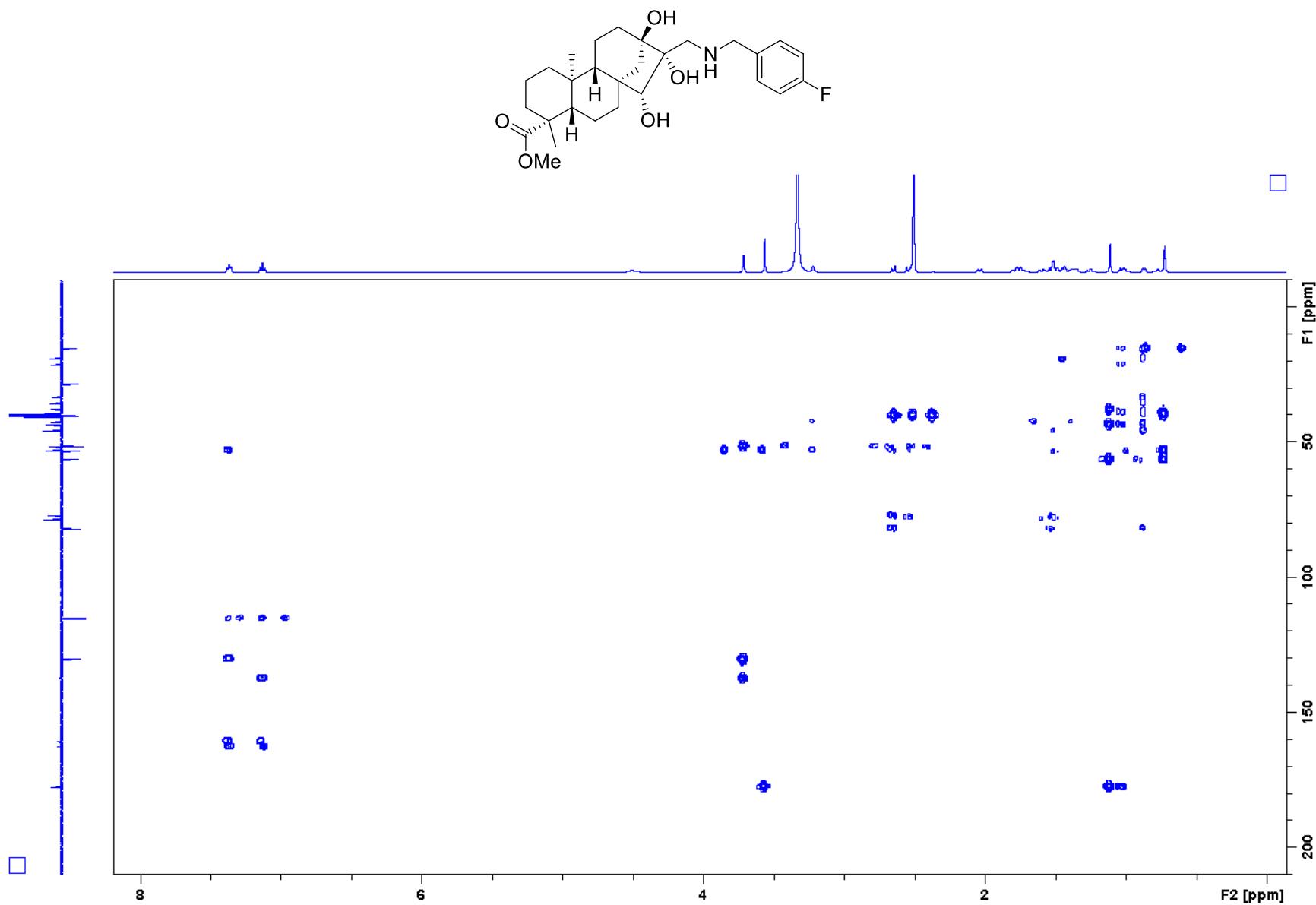
NOESY of compound (*4R,6aR,7R,8R,9S,11bS*)-methyl 8-(((4-fluorobenzyl)amino)methyl)-7,8,9-trihydroxy-4,11b-dimethyltetradecahydro-6a,9-methanocyclohepta[a]naphthalene-4-carboxylate (**9**)



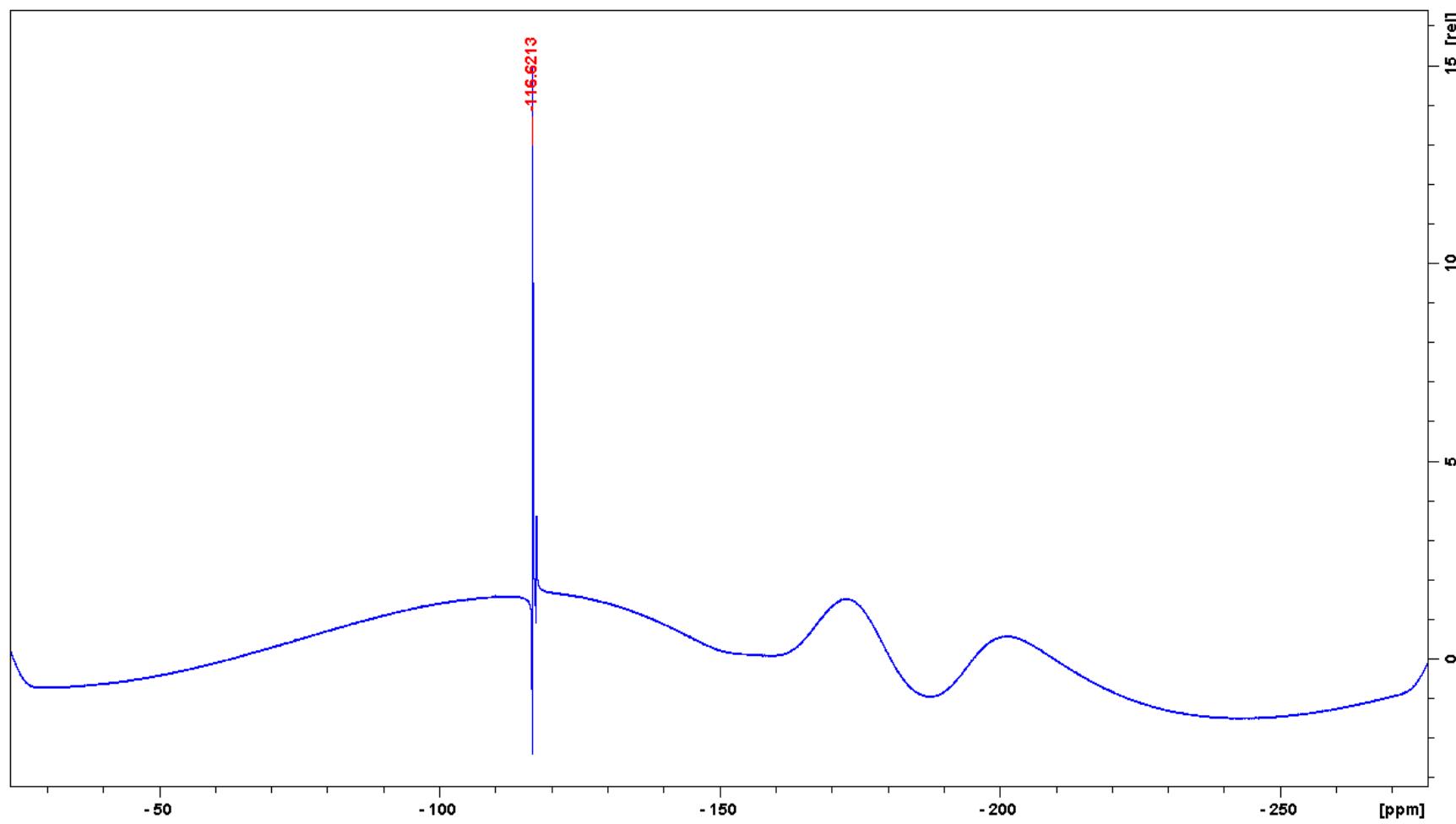
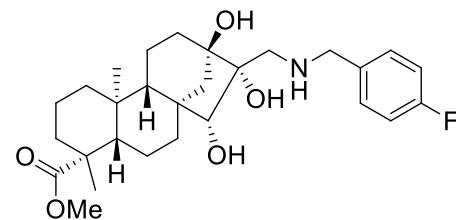
HSQC of compound (4*R*,6*aR*,7*R*,8*R*,9*S*,11*bS*)-methyl 8-(((4-fluorobenzyl)amino)methyl)-7,8,9-trihydroxy-4,11*b*-dimethyltetradecahydro-6*a*,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**9**)



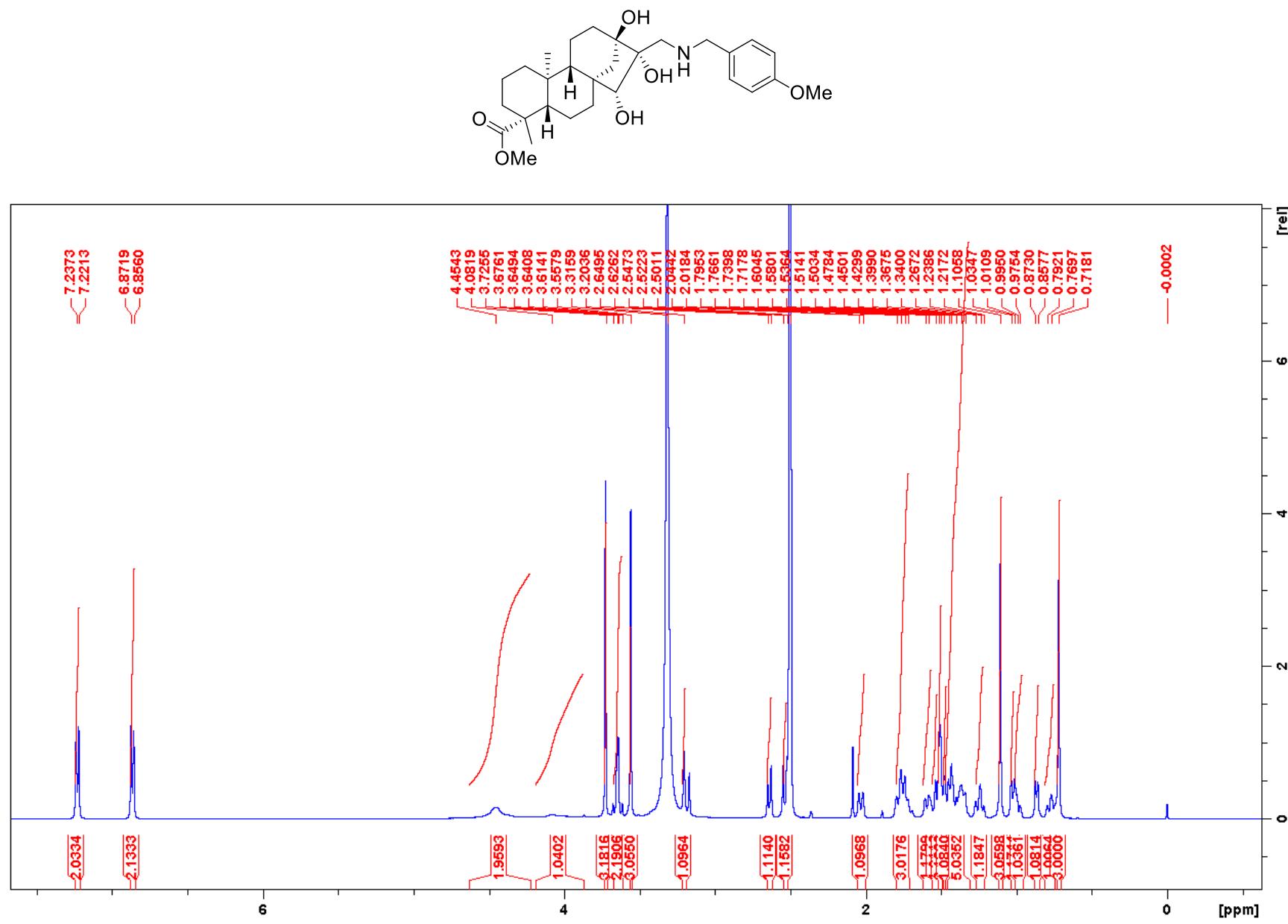
HMBC of compound (*4R,6aR,7R,8R,9S,11bS*)-methyl 8-(((4-fluorobenzyl)amino)methyl)-7,8,9-trihydroxy-4,11b-dimethyltetradecahydro-6a,9-methanocyclohepta[a]naphthalene-4-carboxylate (**9**)



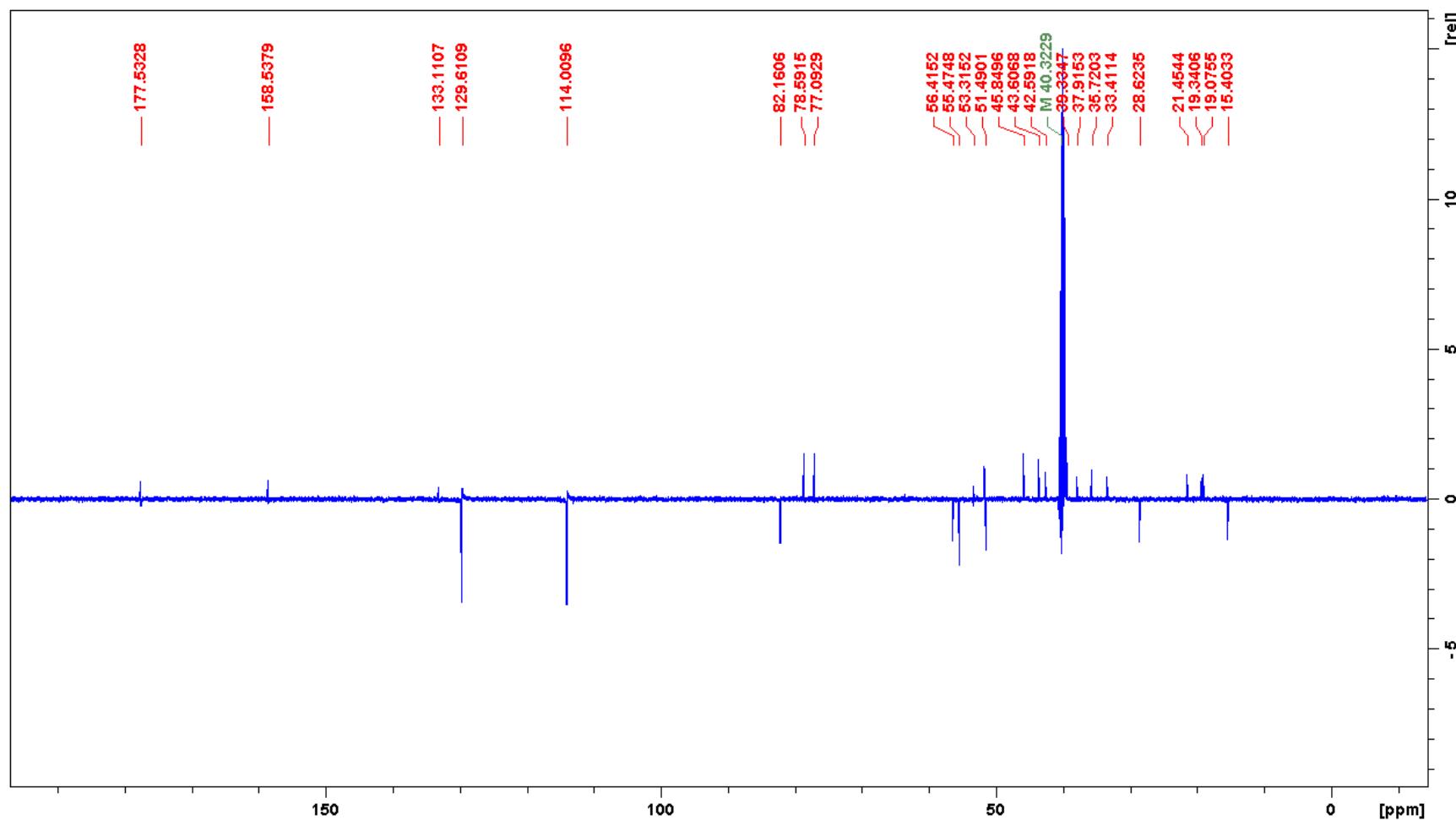
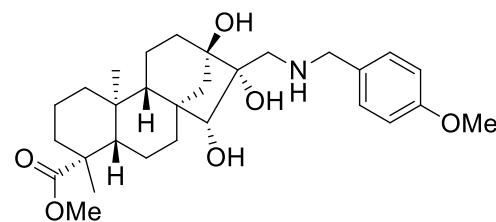
<sup>19</sup>F-NMR of compound (4*R*,6*aR*,7*R*,8*R*,9*S*,11*bS*)-methyl 8-((4-fluorobenzyl)amino)methyl)-7,8,9-trihydroxy-4,11*b*-dimethyltetradecahydro-6*a*,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**9**)



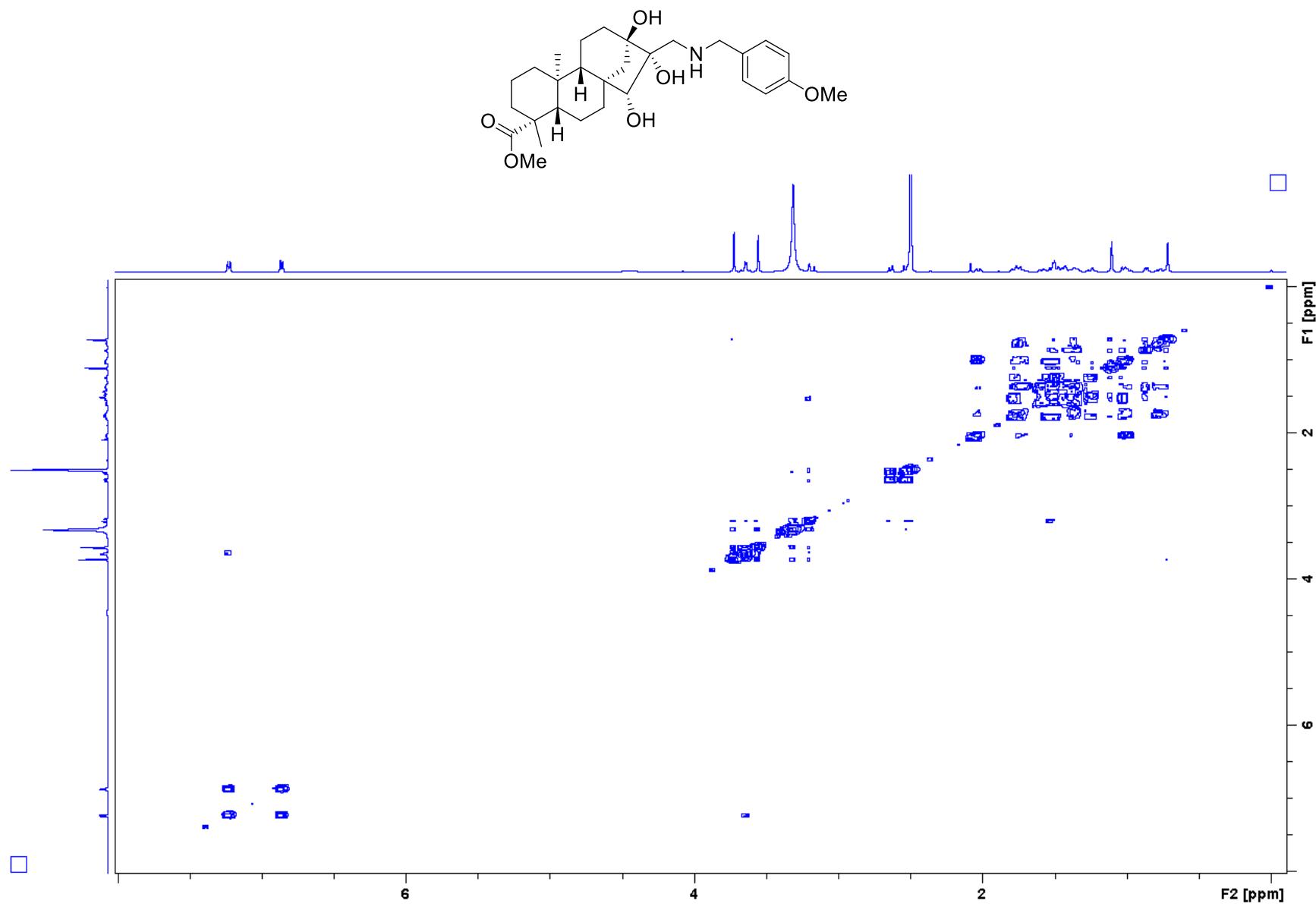
<sup>1</sup>H-NMR of compound (4*R*,6*aR*,7*R*,8*R*,9*S*,11*bS*)-methyl 7,8,9-trihydroxy-8-(((4-methoxybenzyl)amino)methyl)-4,11*b*-dimethyltetradecahydro-6*a*,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**10**)



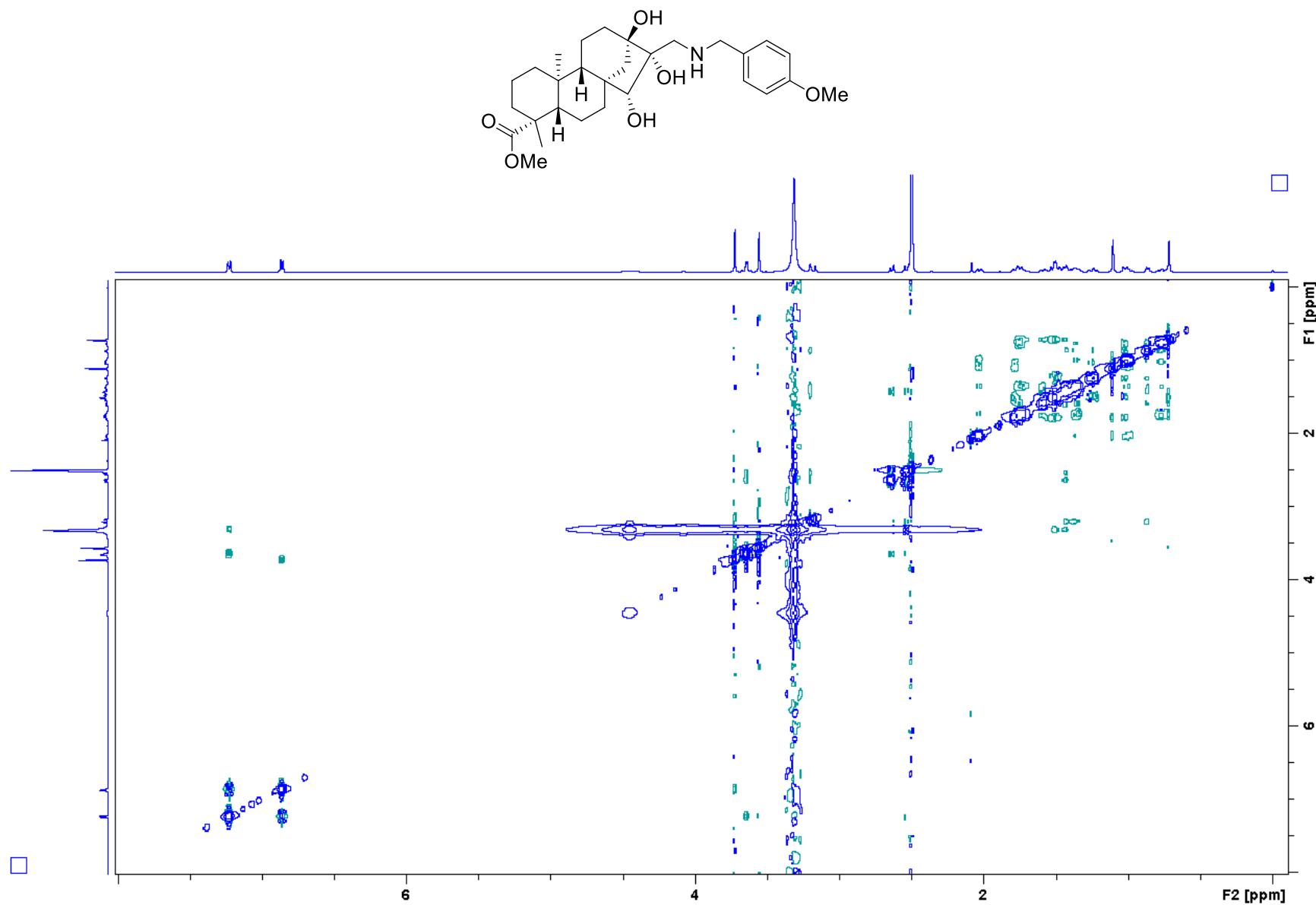
<sup>13</sup>C-NMR of compound (4*R*,6*aR*,7*R*,8*R*,9*S*,11*bS*)-methyl 7,8,9-trihydroxy-8-(((4-methoxybenzyl)amino)methyl)-4,11*b*-dimethyltetradecahydro-6*a*,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**10**)



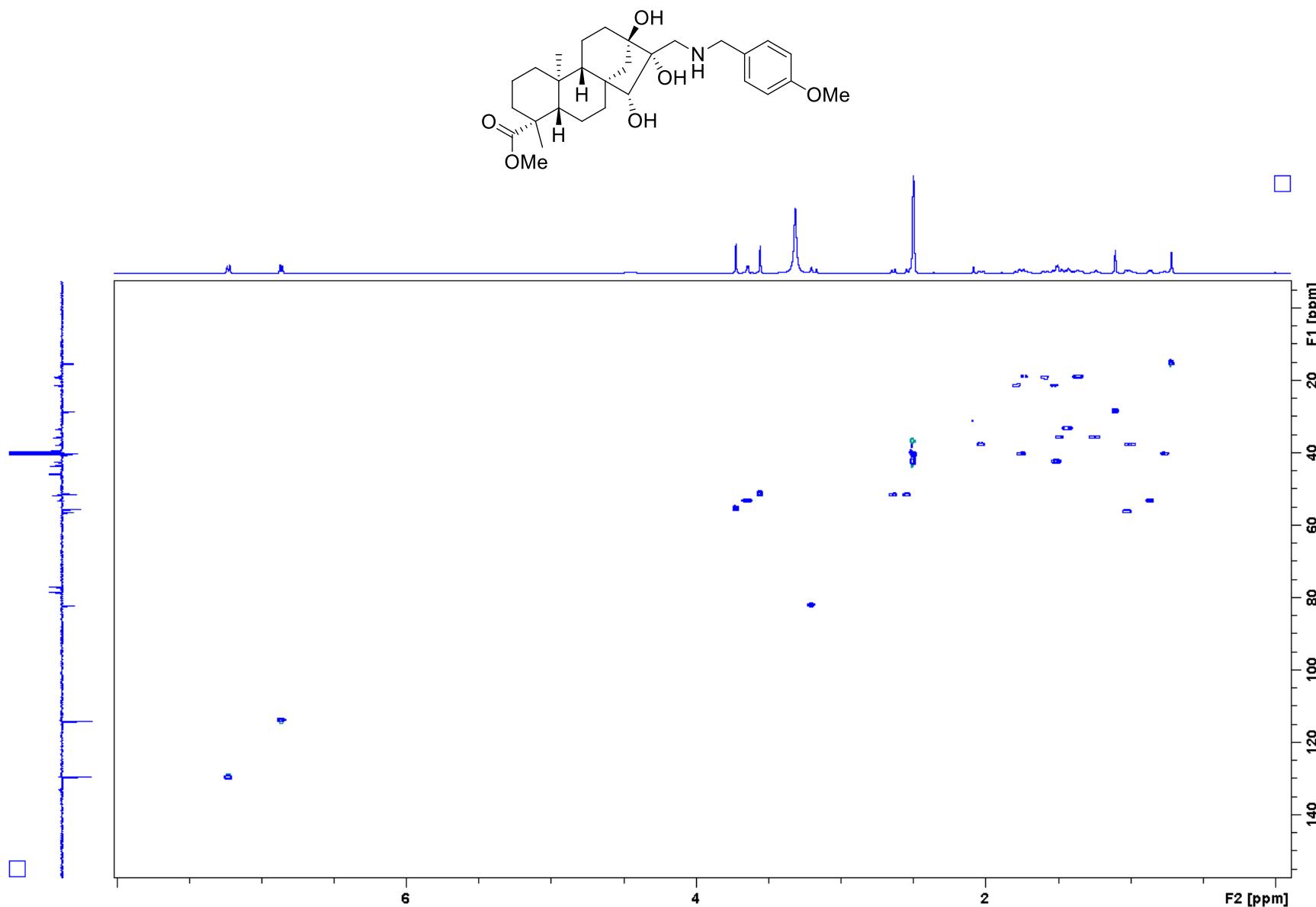
COSY of compound (*4R,6aR,7R,8R,9S,11bS*)-methyl 7,8,9-trihydroxy-8-(((4-methoxybenzyl)amino)methyl)-4,11b-dimethyltetradecahydro-6a,9-methanocyclohepta[a]naphthalene-4-carboxylate (**10**)



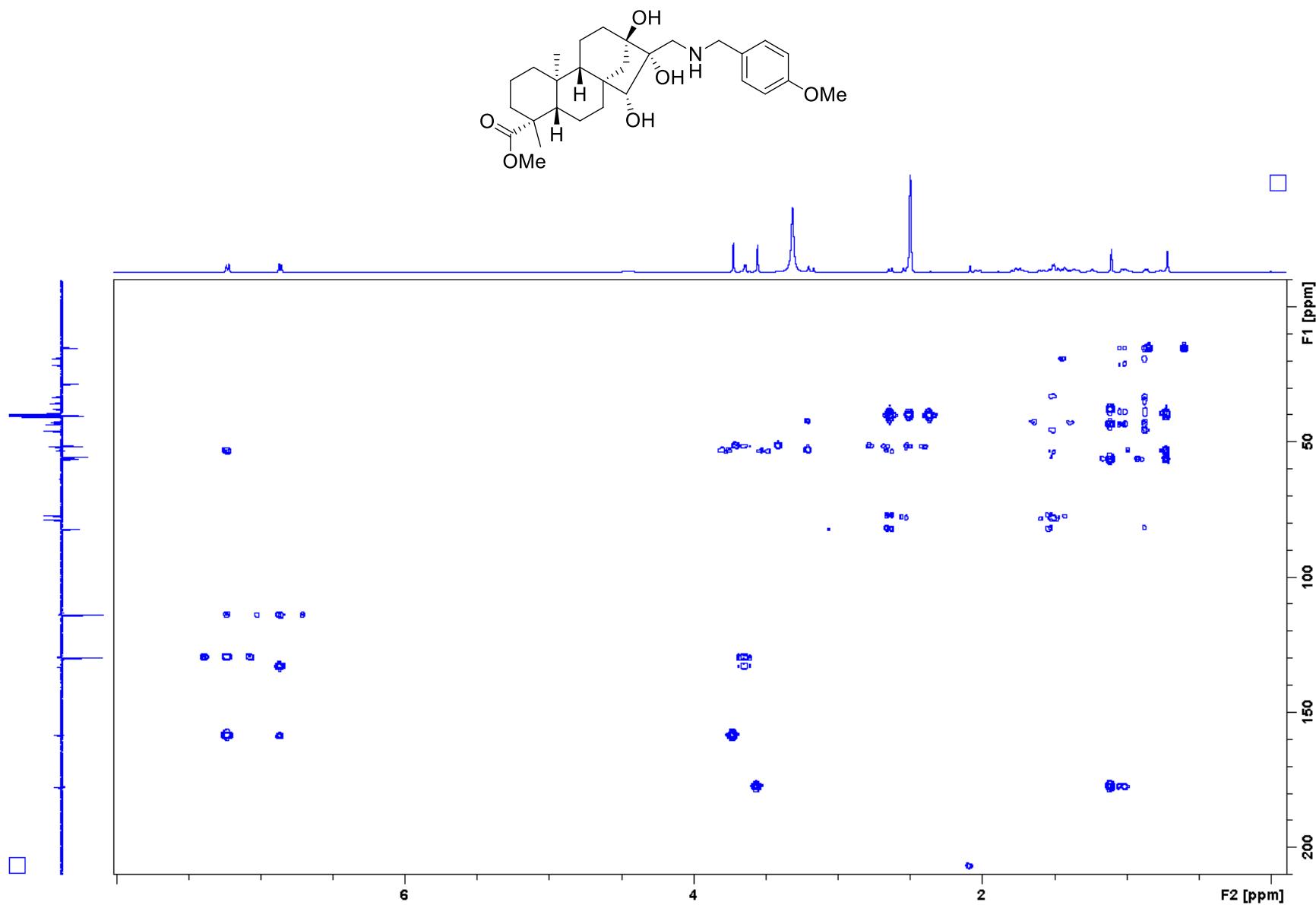
NOESY of compound (*4R,6aR,7R,8R,9S,11bS*)-methyl 7,8,9-trihydroxy-8-((4-methoxybenzyl)amino)methyl)-4,11b-dimethyltetradecahydro-6a,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**10**)



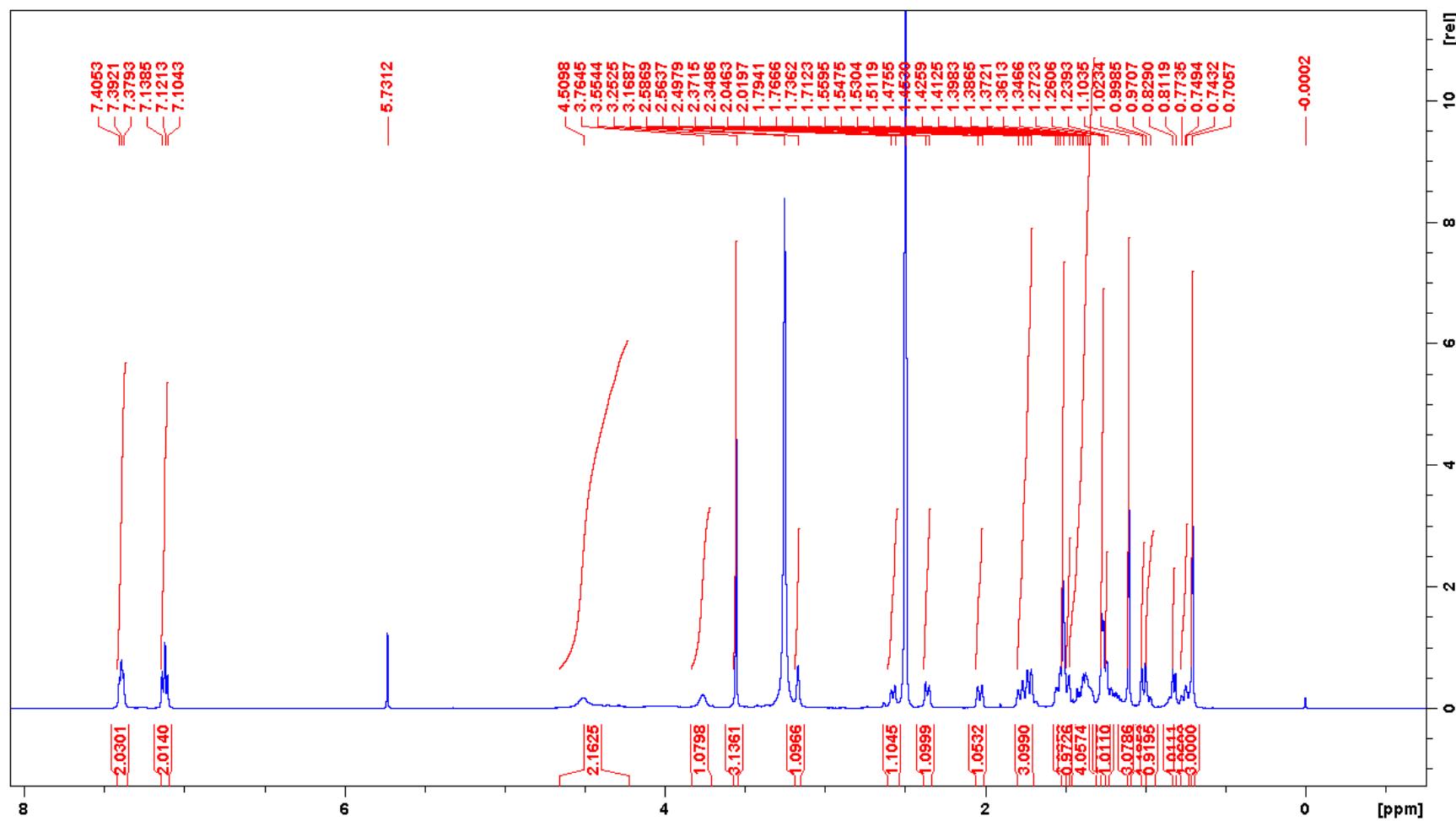
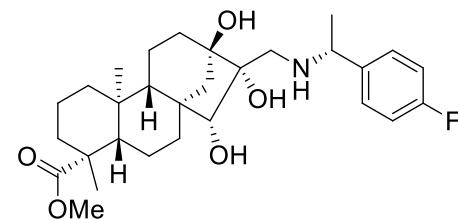
HSQC of compound (4*R*,6*aR*,7*R*,8*R*,9*S*,11*bS*)-methyl 7,8,9-trihydroxy-8-(((4-methoxybenzyl)amino)methyl)-4,11*b*-dimethyltetradecahydro-6*a*,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**10**)



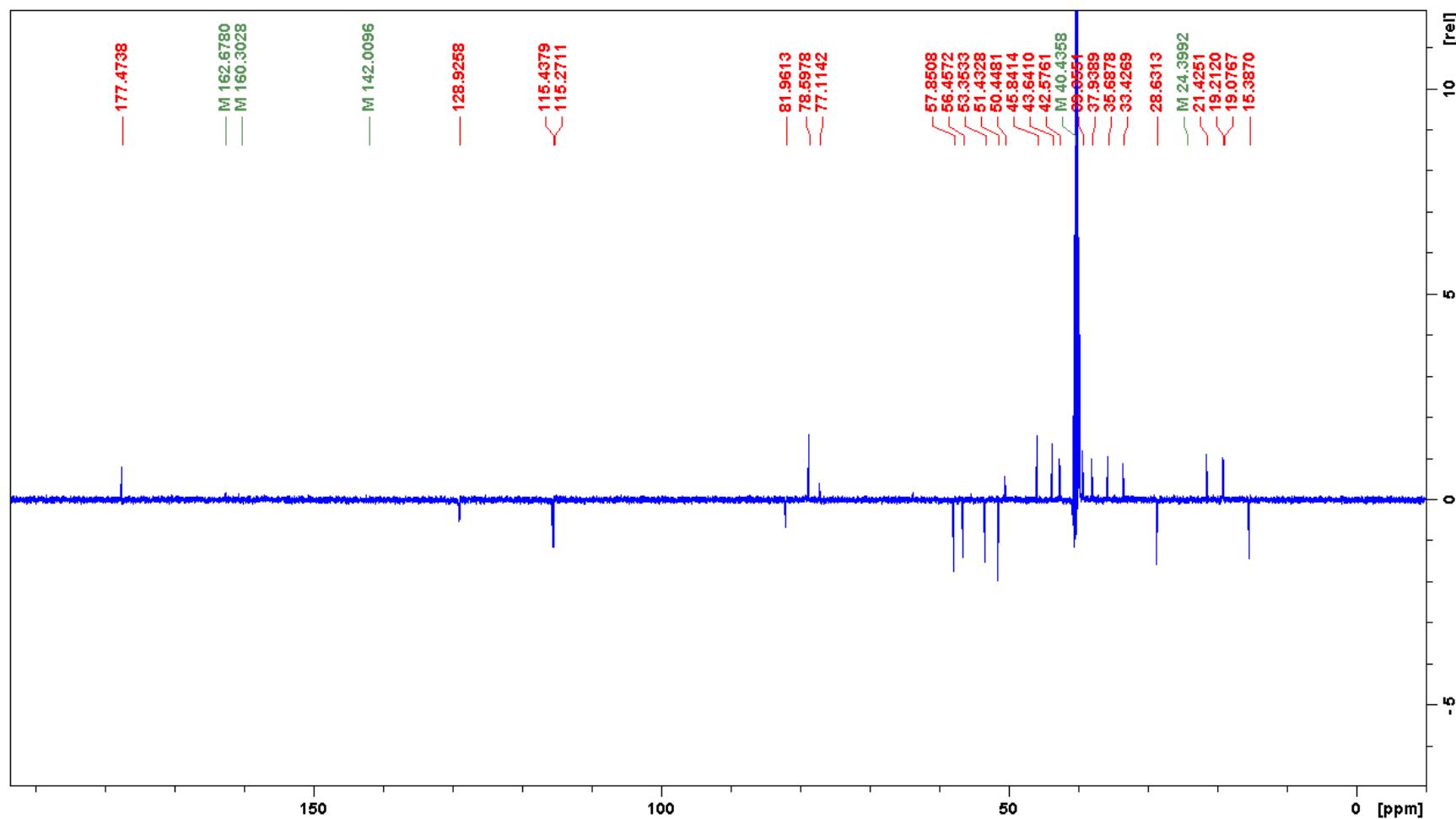
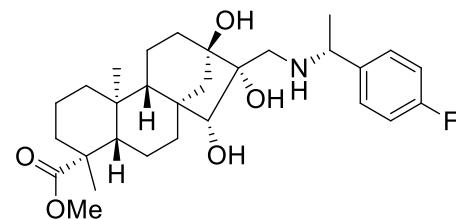
HMBC of compound (*4R,6aR,7R,8R,9S,11bS*)-methyl 7,8,9-trihydroxy-8-((4-methoxybenzyl)amino)methyl)-4,11b-dimethyltetradecahydro-6a,9-methanocyclohepta[a]naphthalene-4-carboxylate (**10**)



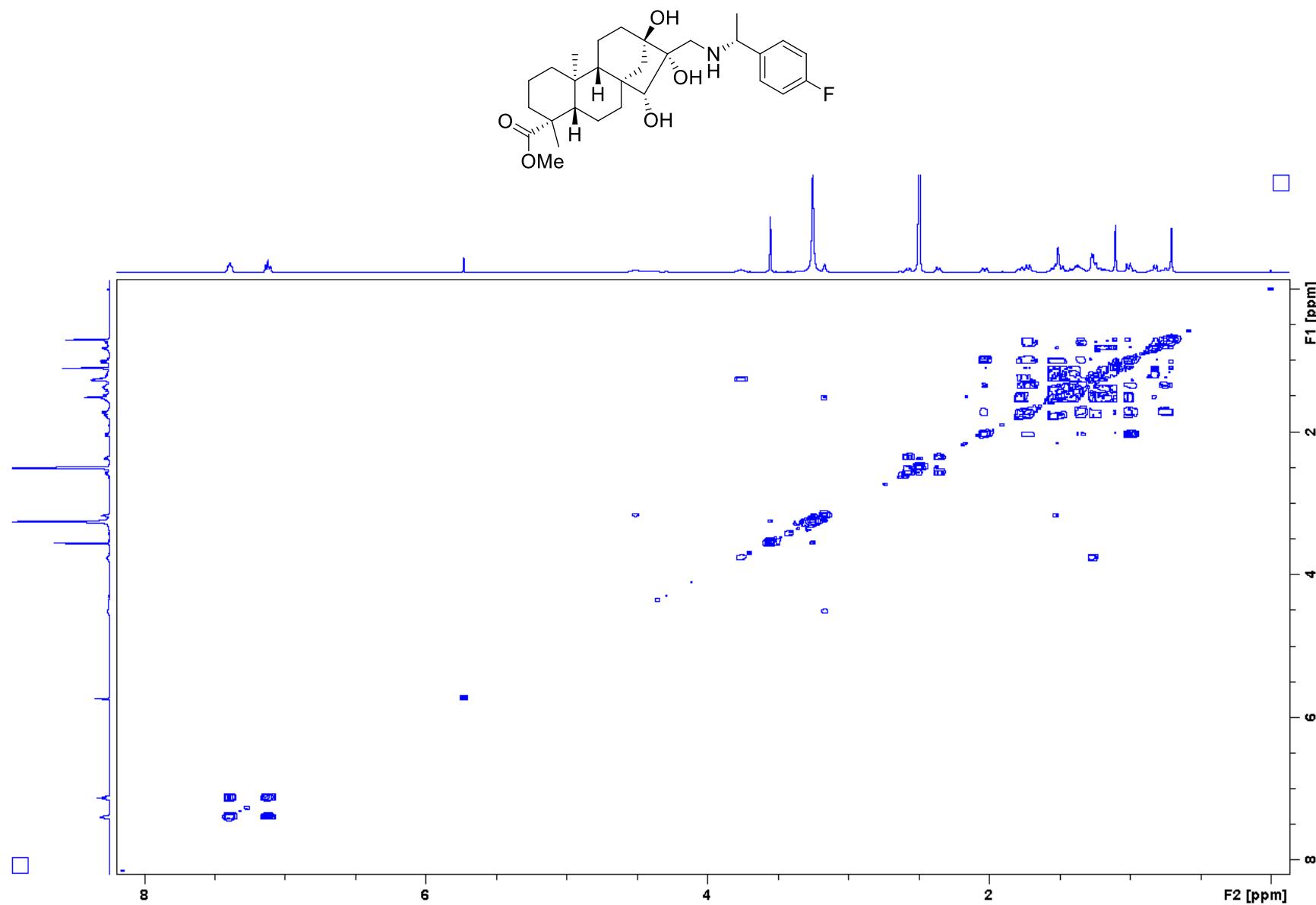
<sup>1</sup>H-NMR of compound (4*R*,4a*S*,6a*R*,7*R*,8*R*,11a*S*,11b*S*)-methyl 8-(((*R*)-1-(4-fluorophenyl)ethyl)amino)methyl)-7,8,9-trihydroxy-4,11b-dimethyltetradecahydro-6a,9-methanocyclohepta[a]naphthalene-4-carboxylate (**11**)



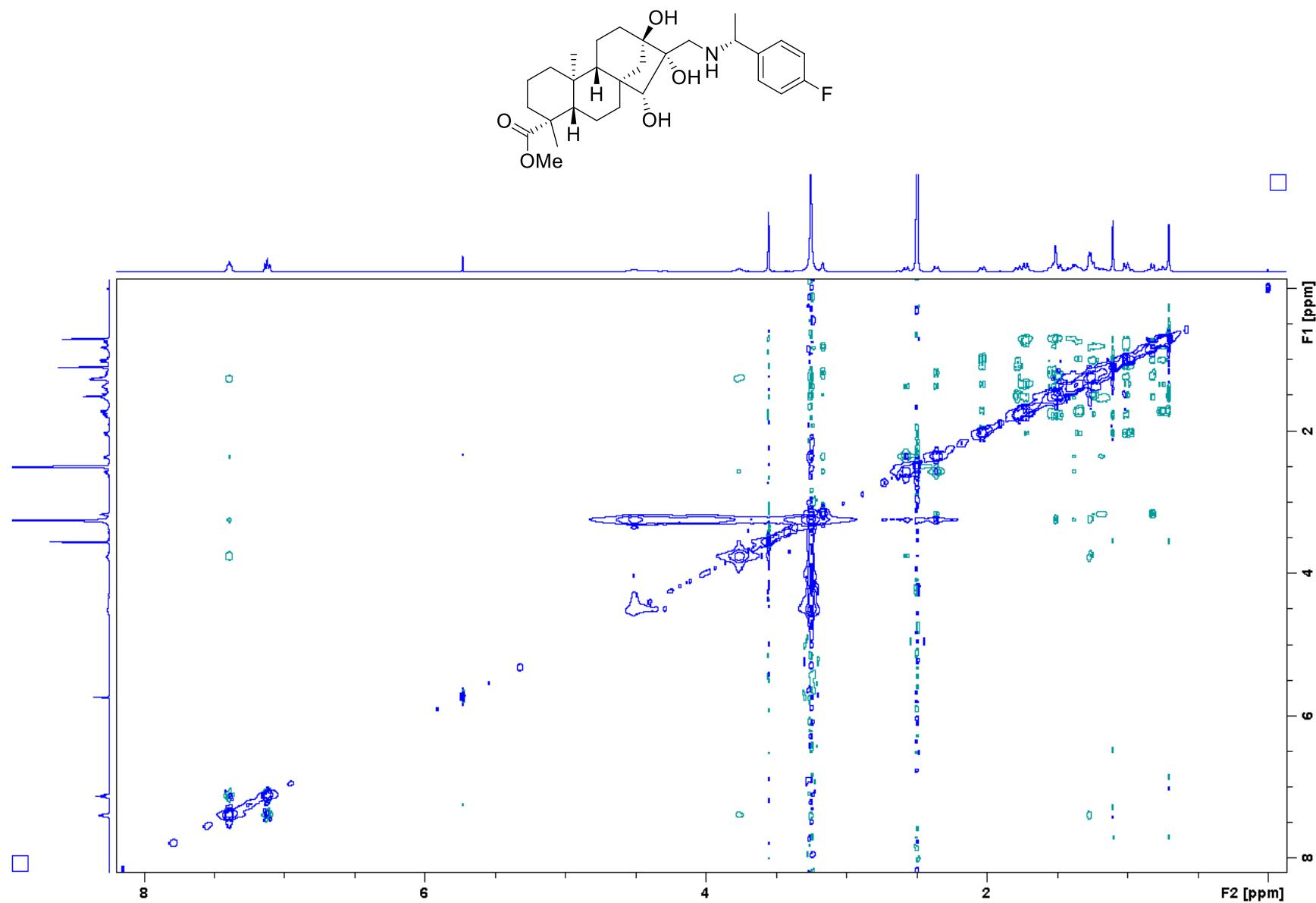
<sup>13</sup>C-NMR of compound (4*R*,4a*S*,6a*R*,7*R*,8*R*,11a*S*,11b*S*)-methyl 8-(((*R*)-1-(4-fluorophenyl)ethyl)amino)methyl)-7,8,9-trihydroxy-4,11b-dimethyltetradecahydro-6a,9-methanocyclohepta[a]naphthalene-4-carboxylate (**11**)



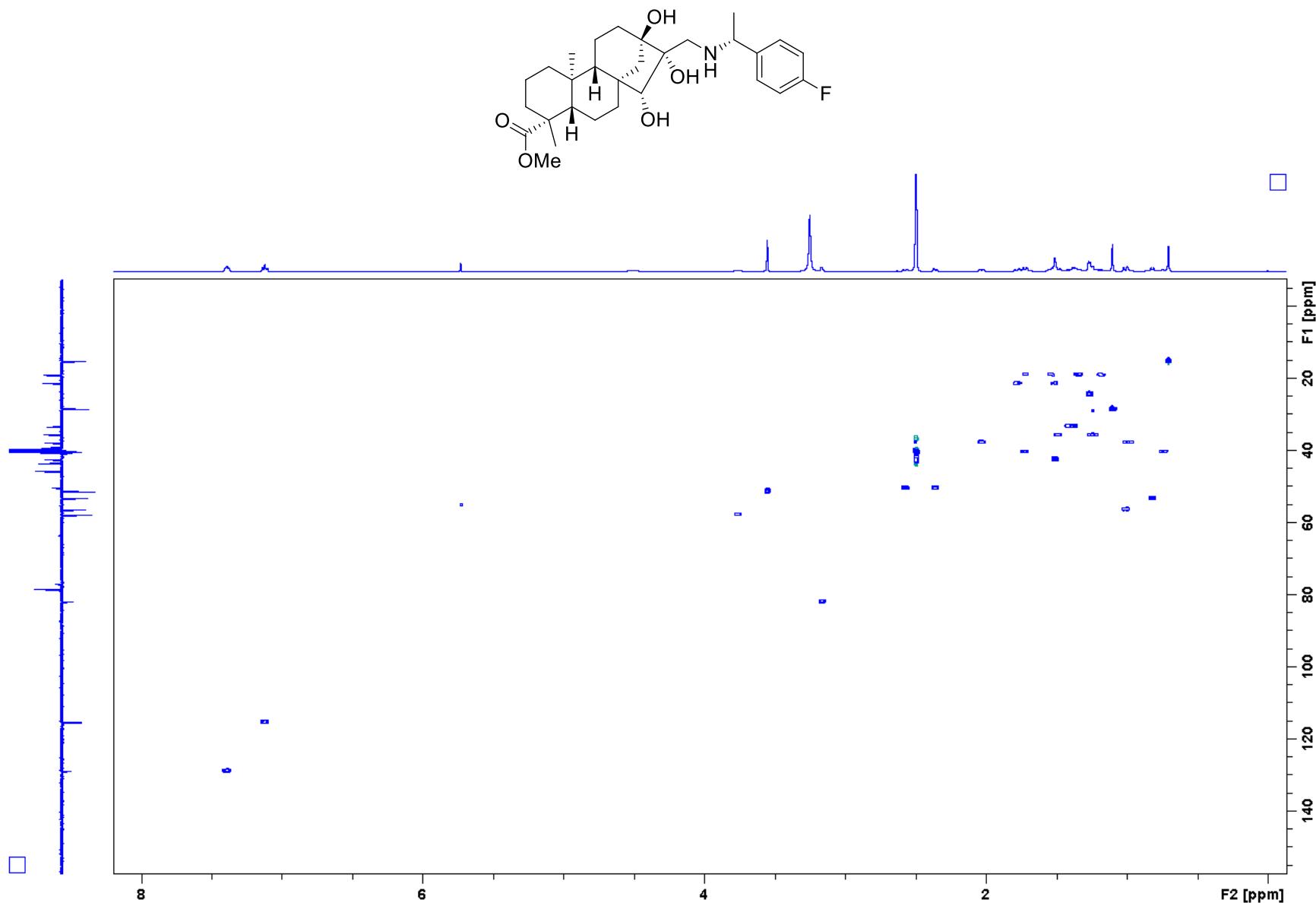
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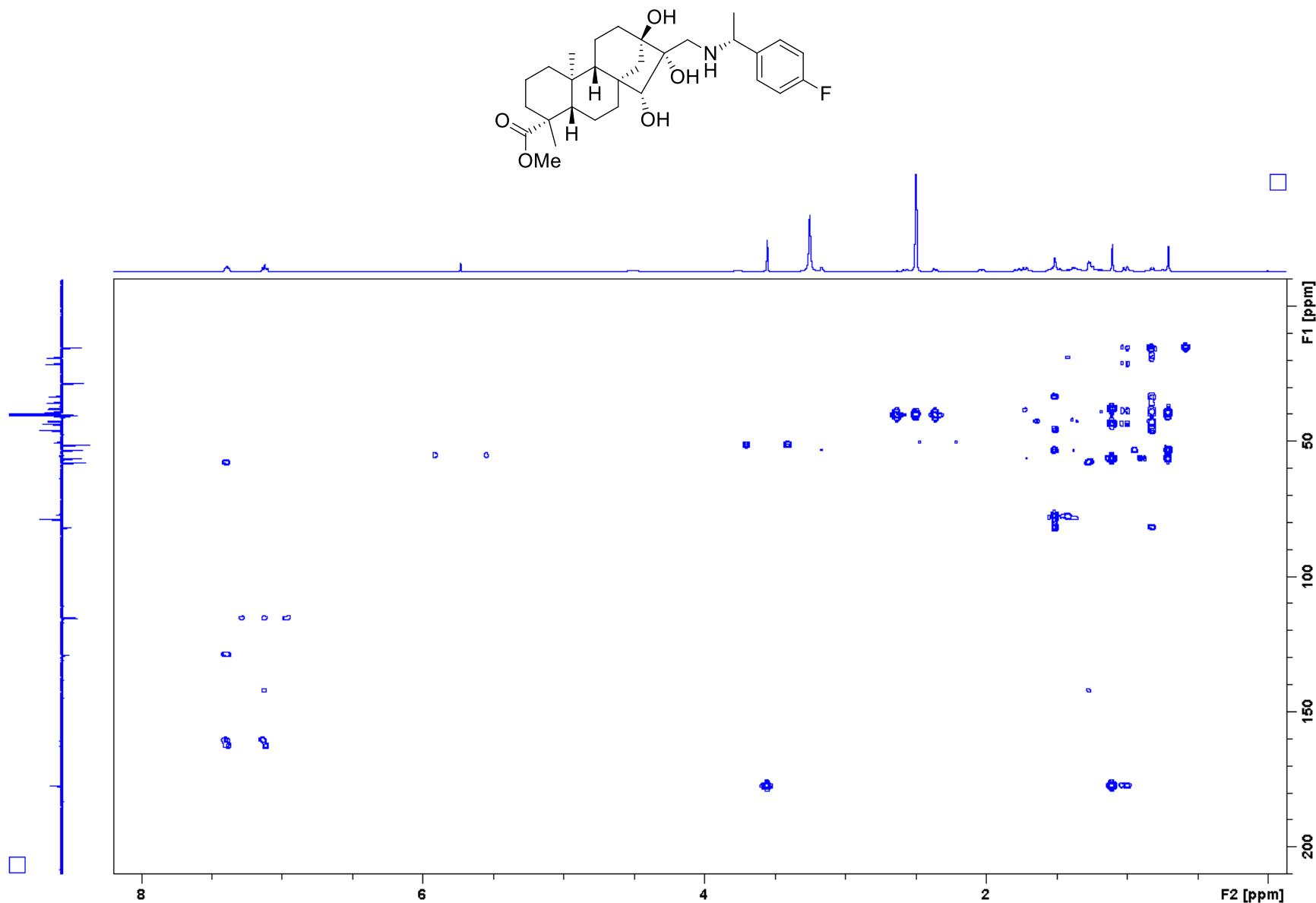
NOESY of compound (*4R,4aS,6aR,7R,8R,11aS,11bS*)-methyl 8-(((*R*)-1-(4-fluorophenyl)ethyl)amino)methyl)-7,8,9-trihydroxy-4,11b-dimethyltetradecahydro-6a,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**11**)



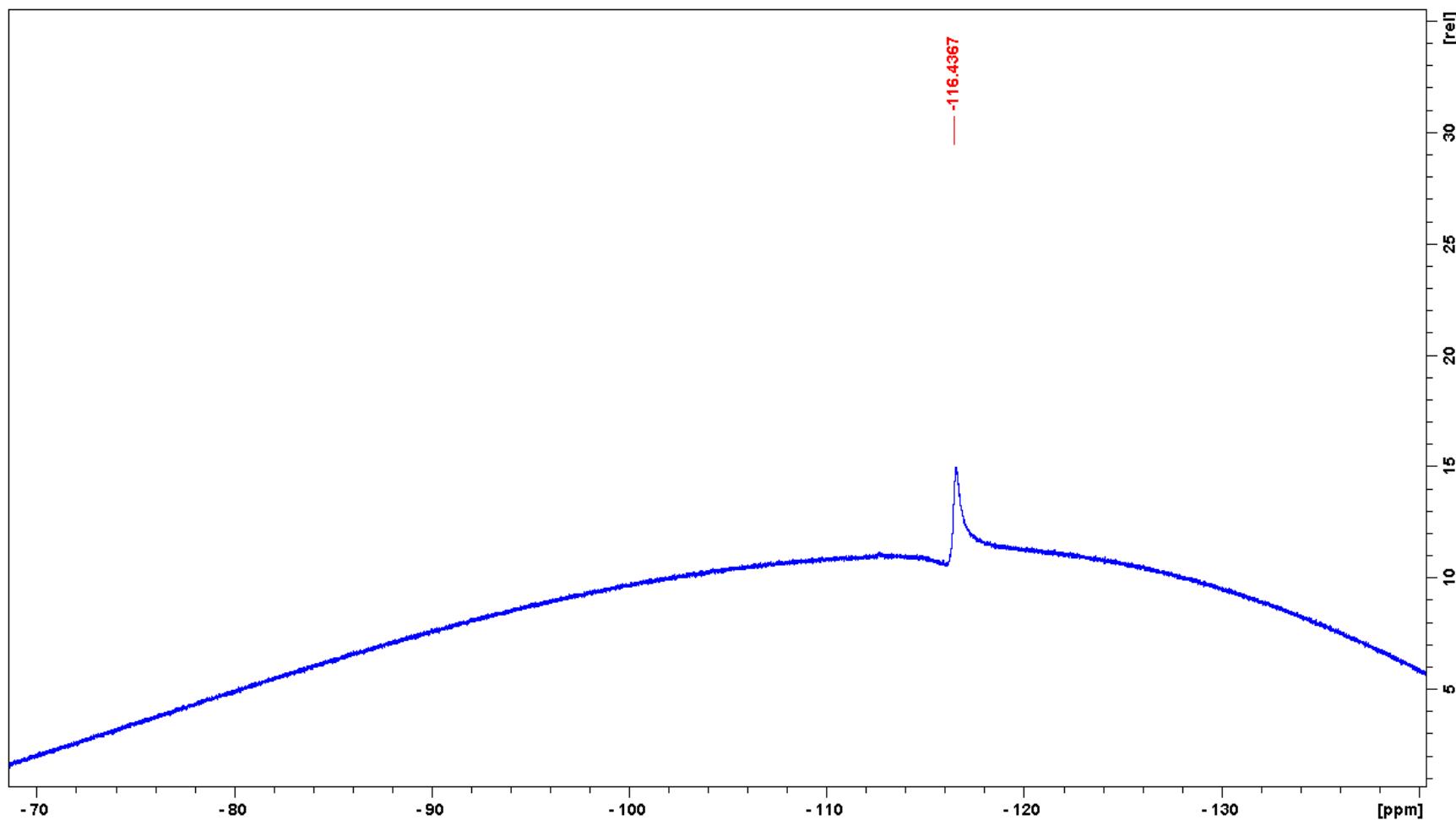
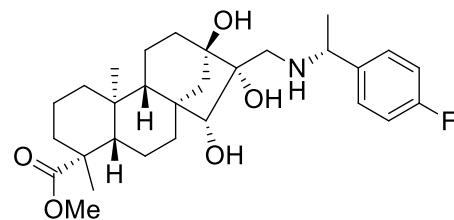
HSQC of compound (4*R*,4*a**S*,6*a**R*,7*R*,8*R*,11*a**S*,11*b**S*)-methyl 8-(((*R*)-1-(4-fluorophenyl)ethyl)amino)methyl)-7,8,9-trihydroxy-4,11*b*-dimethyltetradecahydro-6*a*,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**11**)



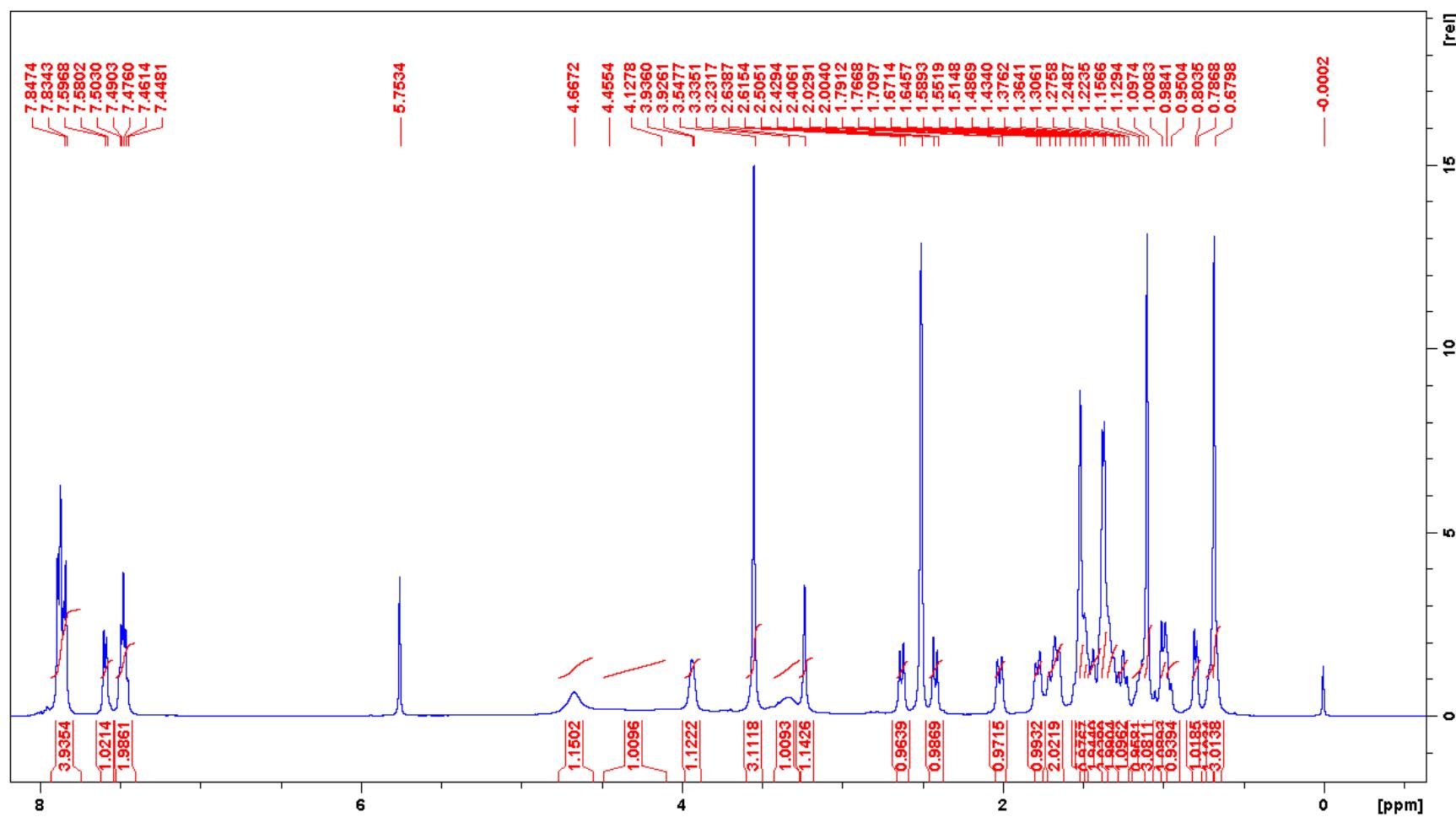
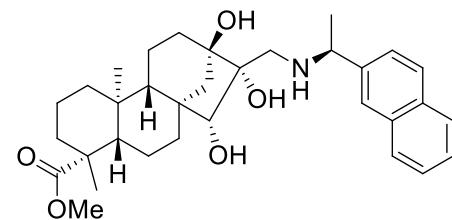
HMBC of compound (*4R,4aS,6aR,7R,8R,11aS,11bS*)-methyl 8-(((*R*)-1-(4-fluorophenyl)ethyl)amino)methyl)-7,8,9-trihydroxy-4,11b-dimethyltetradecahydro-6a,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**11**)



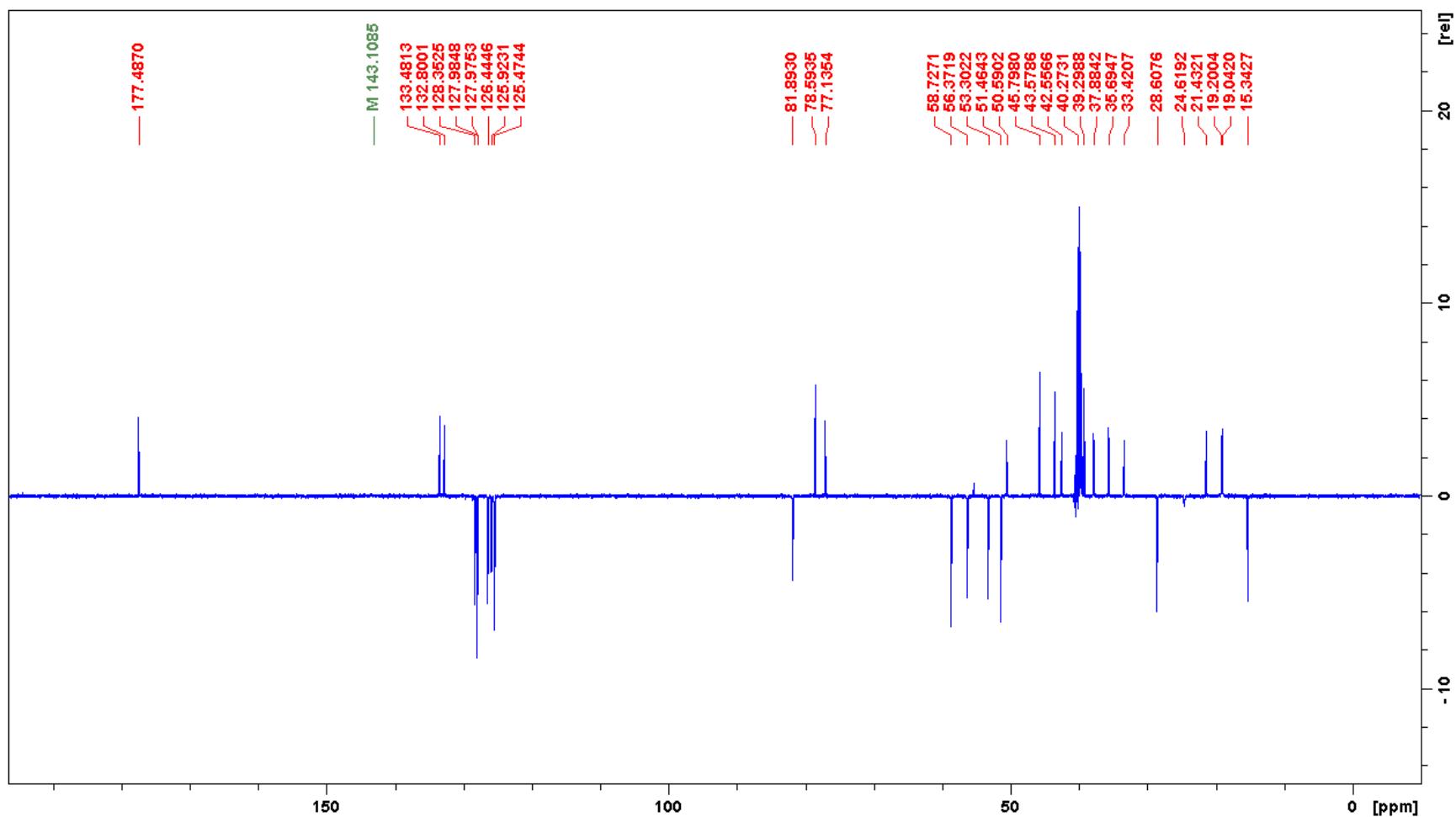
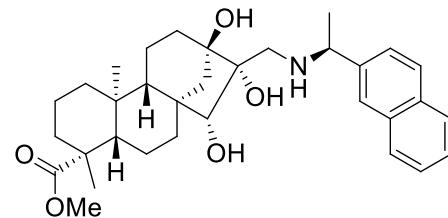
<sup>19</sup>F-NMR of compound (4*R*,4a*S*,6a*R*,7*R*,8*R*,11a*S*,11b*S*)-methyl 8-(((*R*)-1-(4-fluorophenyl)ethyl)amino)methyl)-7,8,9-trihydroxy-4,11b-dimethyltetradecahydro-6a,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**11**)



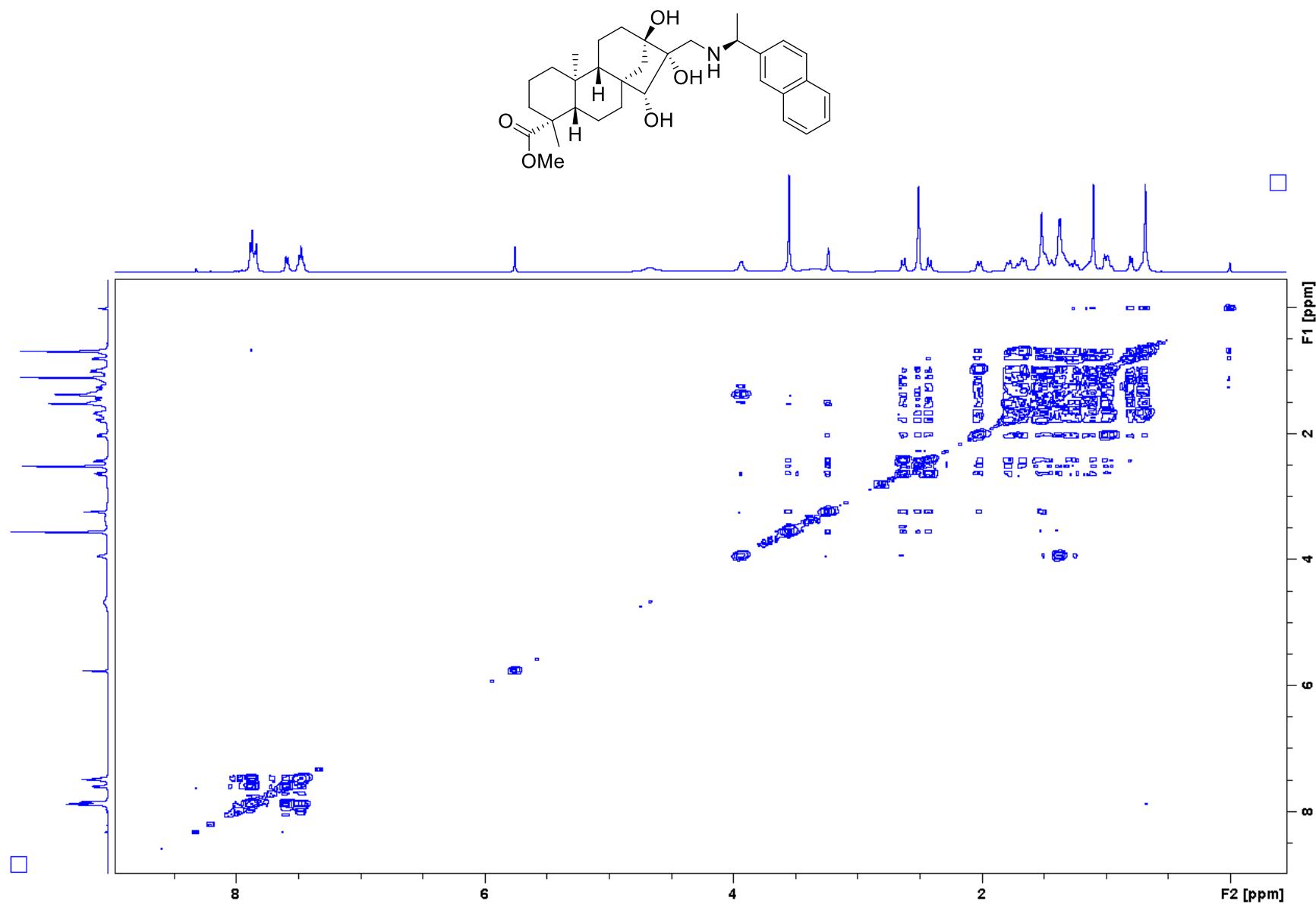
<sup>1</sup>H-NMR of compound (4*R*,6*aR*,7*R*,8*R*,9*S*,11*bS*)-methyl 7,8,9-trihydroxy-4,11*b*-dimethyl-8-(((*R*)-1-(naphthalen-2-yl)ethyl)amino)methyl)tetradecahydro-6*a*,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**12**)



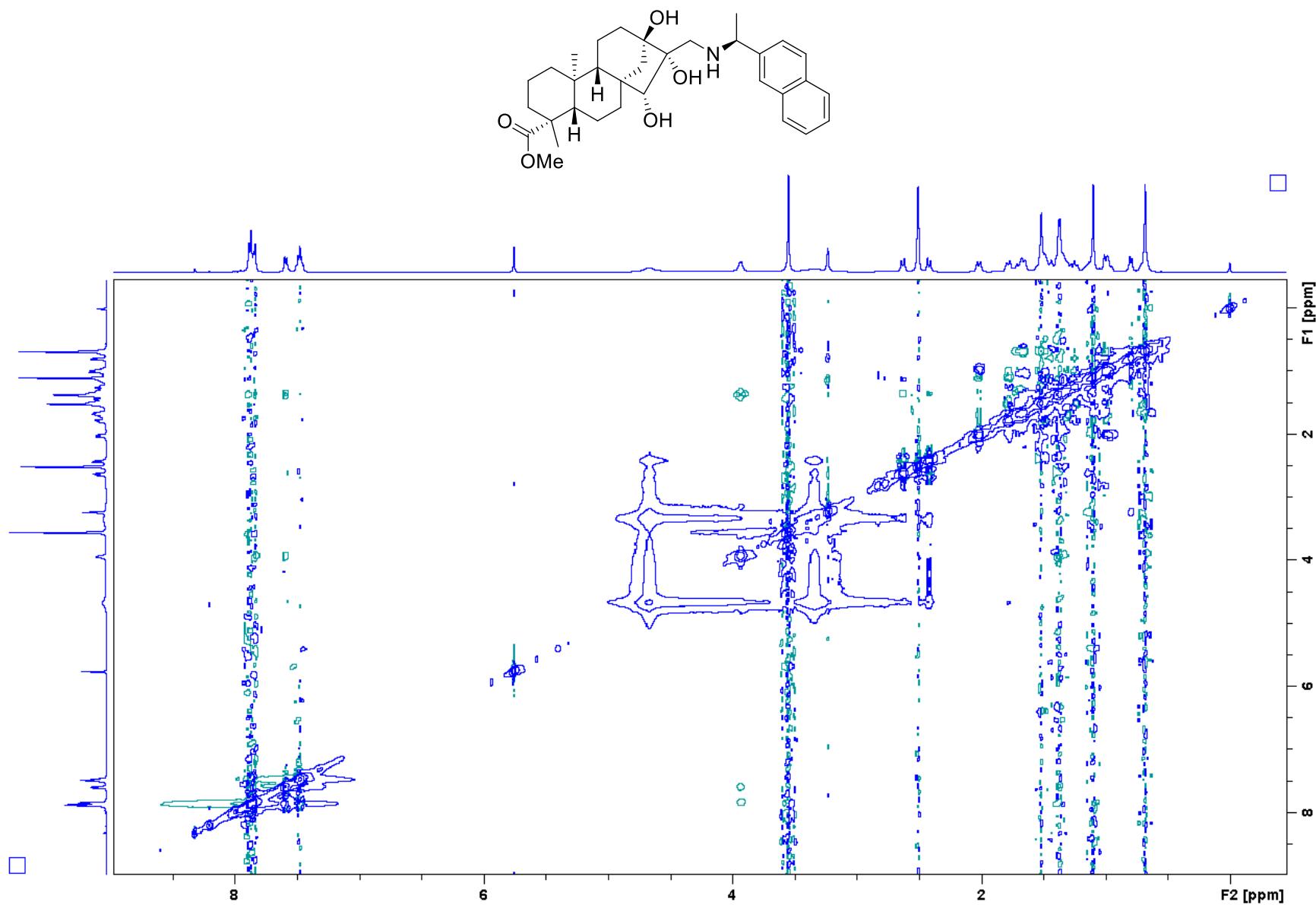
<sup>13</sup>C-NMR of compound (4*R*,6*aR*,7*R*,8*R*,9*S*,11*bS*)-methyl 7,8,9-trihydroxy-4,11*b*-dimethyl-8-(((*R*)-1-(naphthalen-2-yl)ethyl)amino)methyl)tetradecahydro-6*a*,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**12**)



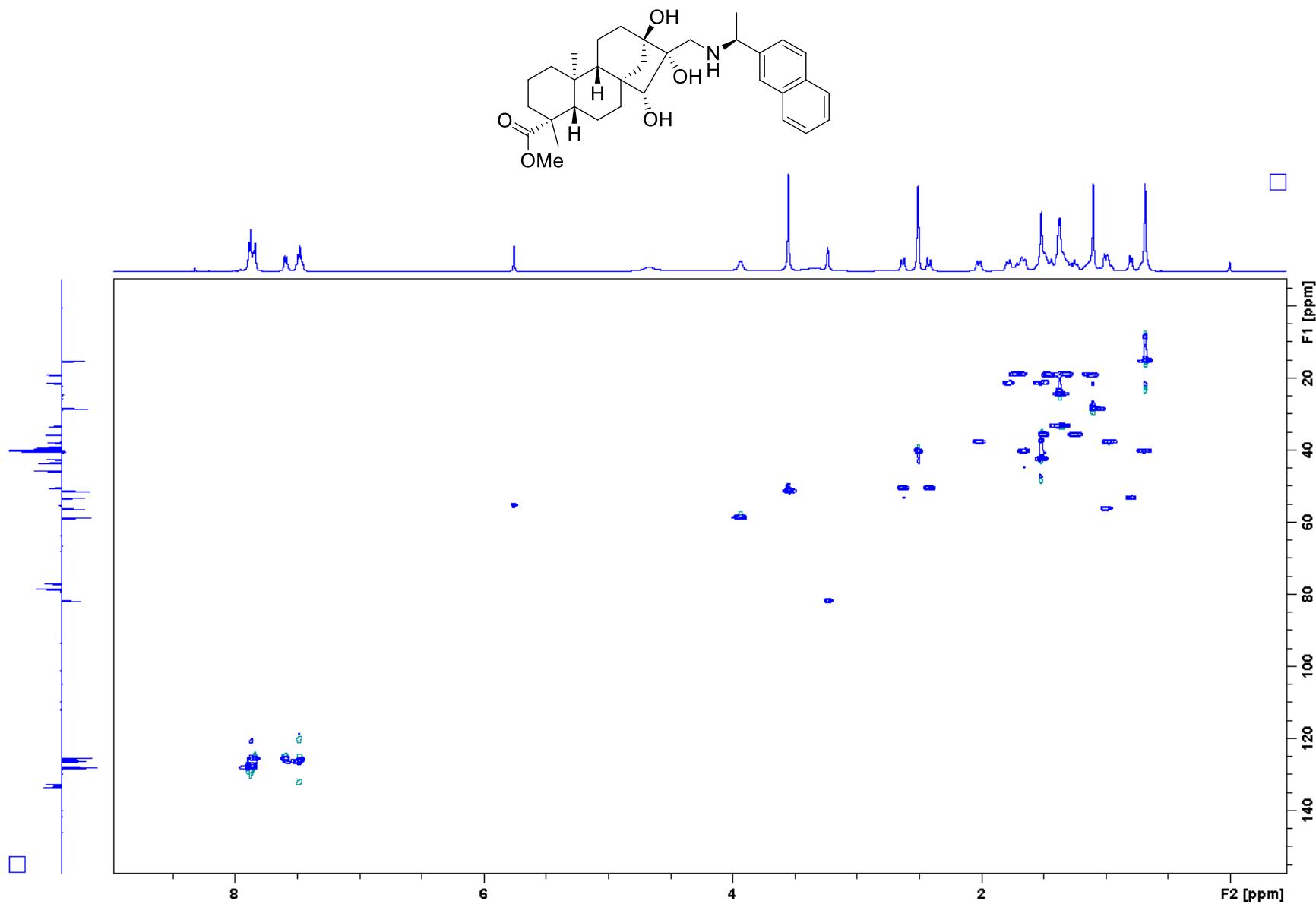
COSY of compound (4*R*,6*aR*,7*R*,8*R*,9*S*,11*bS*)-methyl 7,8,9-trihydroxy-4,11*b*-dimethyl-8-(((*R*)-1-(naphthalen-2-yl)ethyl)amino)methyl)tetradecahydro-6*a*,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**12**)



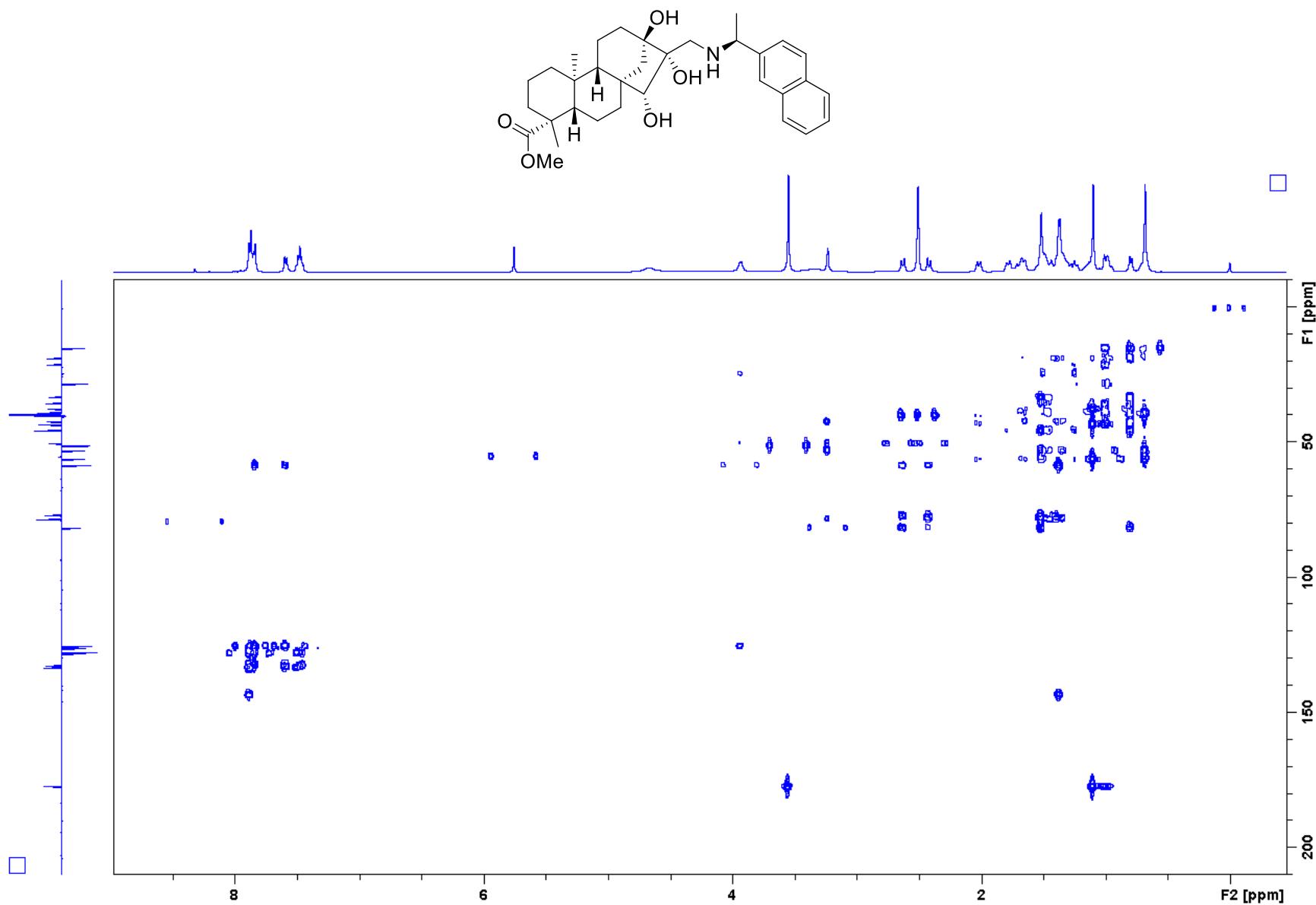
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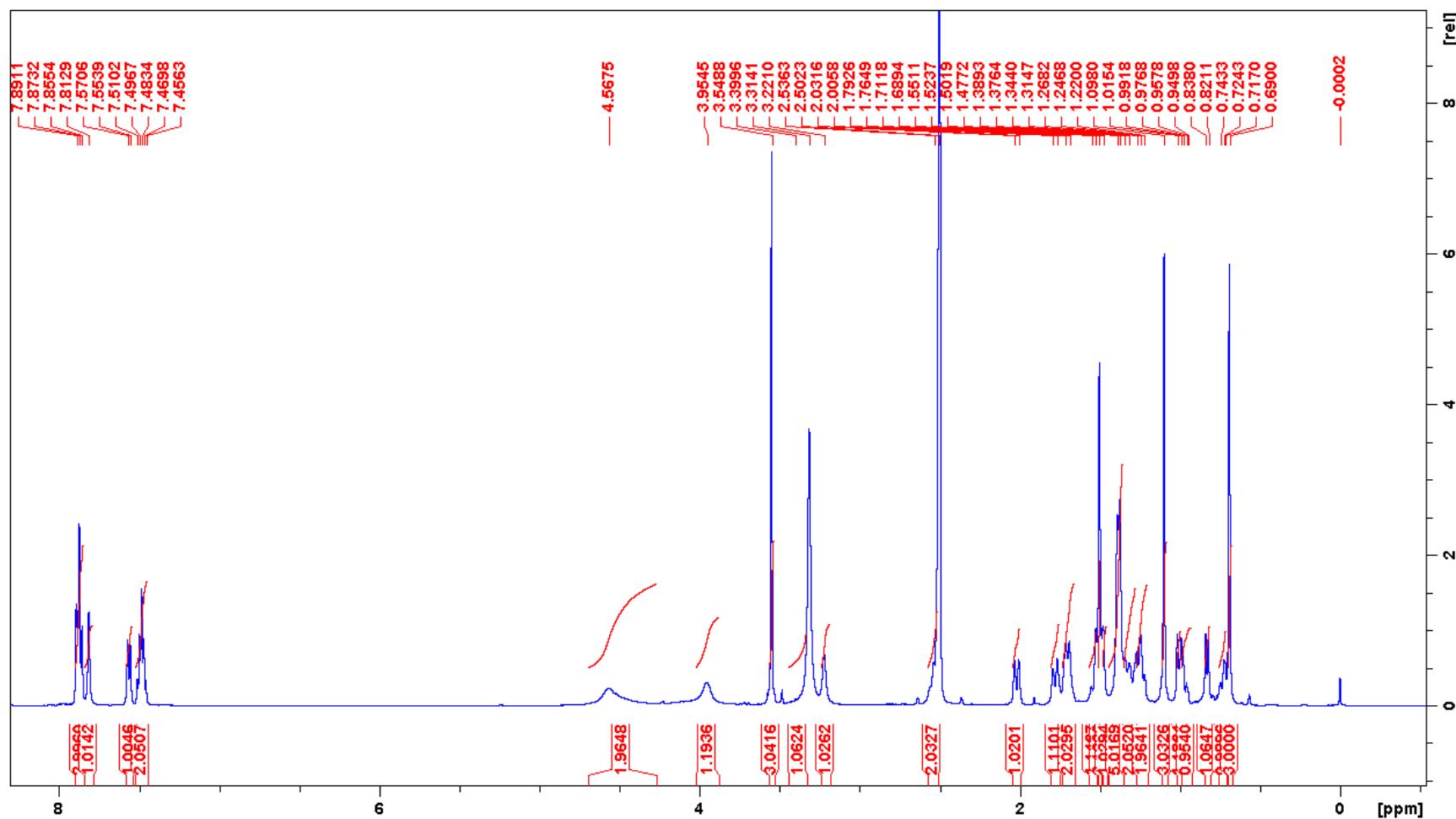
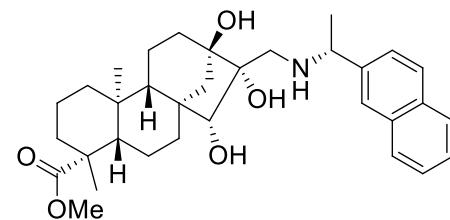
HSQC of compound (4*R*,6*aR*,7*R*,8*R*,9*S*,11*bS*)-methyl 7,8,9-trihydroxy-4,11*b*-dimethyl-8-(((*R*)-1-(naphthalen-2-yl)ethyl)amino)methyl)tetradecahydro-6*a*,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**12**)



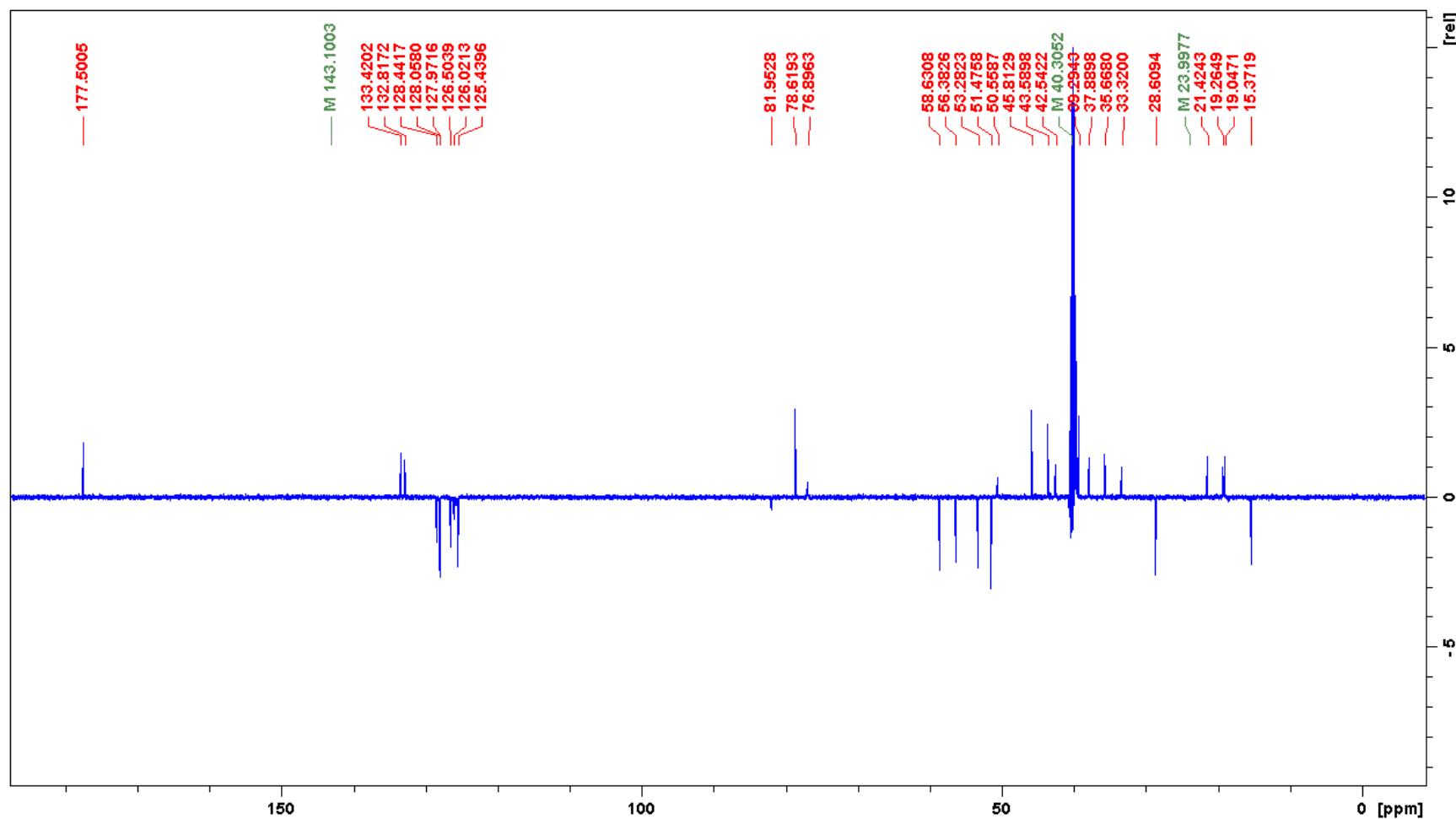
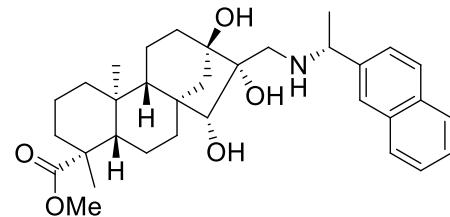
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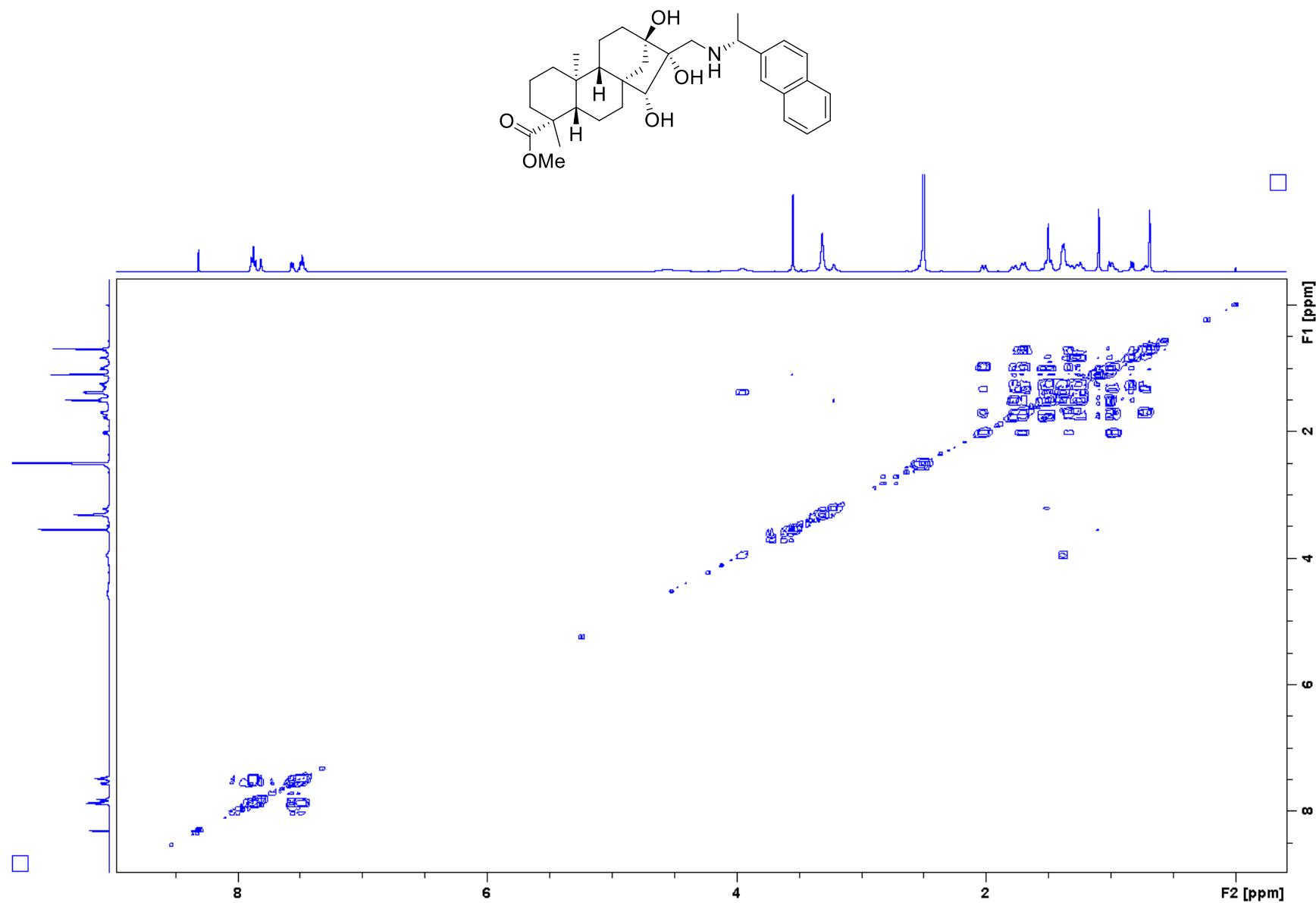
<sup>1</sup>H-NMR of compound (4*R*,6*aR*,7*R*,8*R*,9*S*,11*bS*)-methyl 7,8,9-trihydroxy-4,11*b*-dimethyl-8-(((*S*)-1-(naphthalen-2-yl)ethyl)amino)methyl)tetradecahydro-6*a*,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**13**)



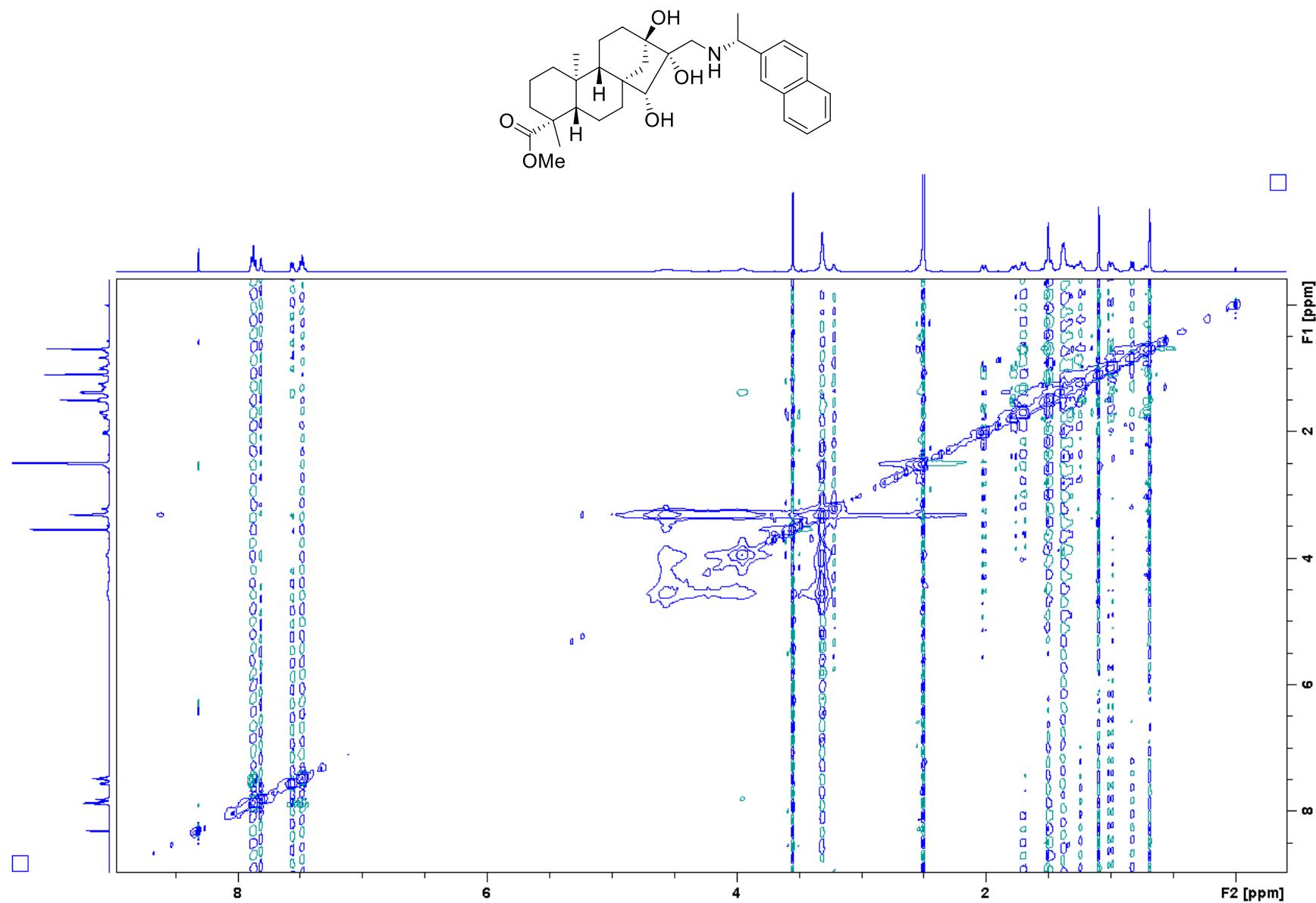
<sup>13</sup>C-NMR of compound (4*R*,6*aR*,7*R*,8*R*,9*S*,11*bS*)-methyl 7,8,9-trihydroxy-4,11*b*-dimethyl-8-(((*S*)-1-(naphthalen-2-yl)ethyl)amino)methyl)tetradecahydro-6*a*,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**13**)



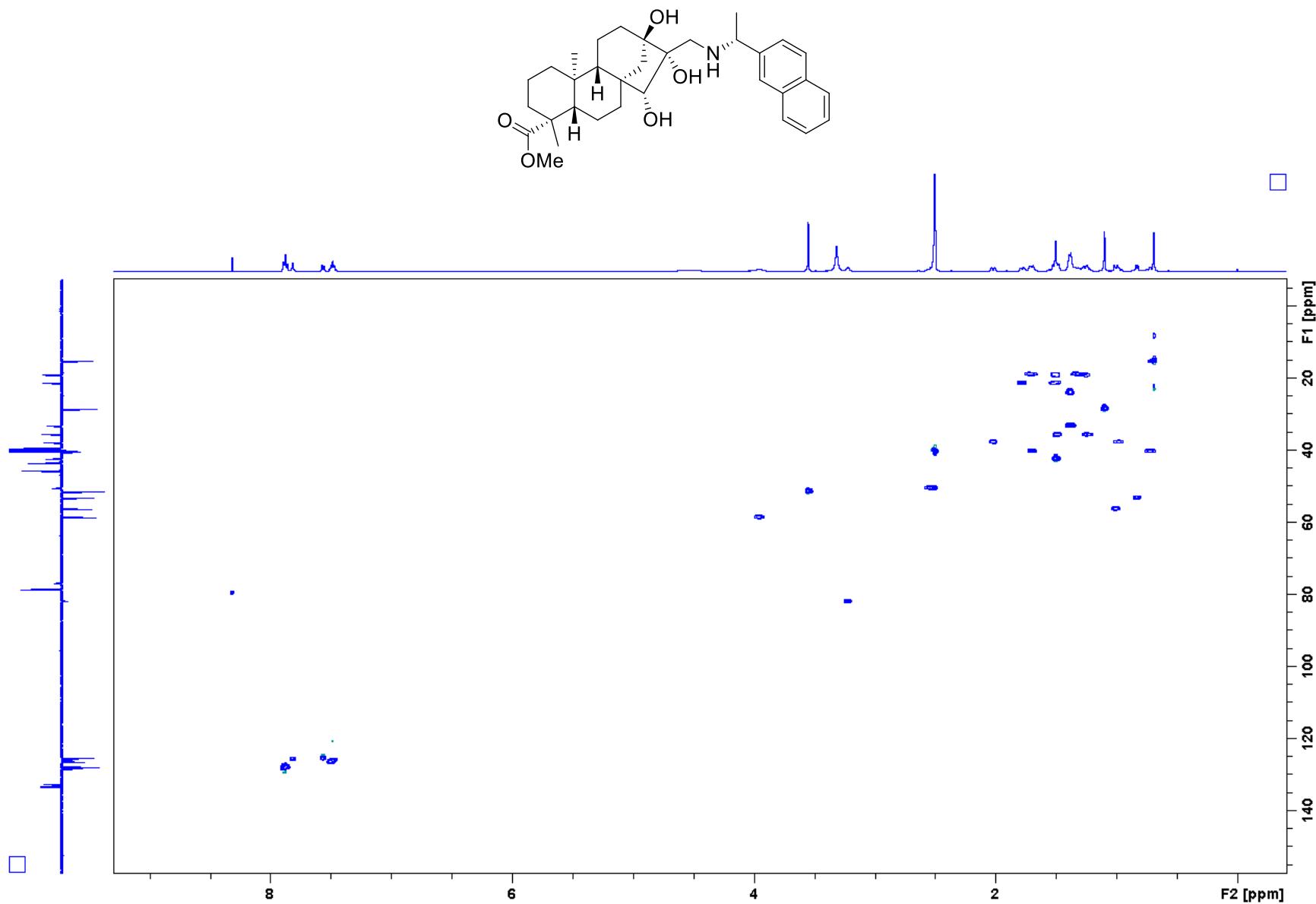
COSY of compound (4*R*,6*aR*,7*R*,8*R*,9*S*,11*bS*)-methyl 7,8,9-trihydroxy-4,11*b*-dimethyl-8-(((*S*)-1-(naphthalen-2-yl)ethyl)amino)methyl)tetradecahydro-6*a*,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**13**)



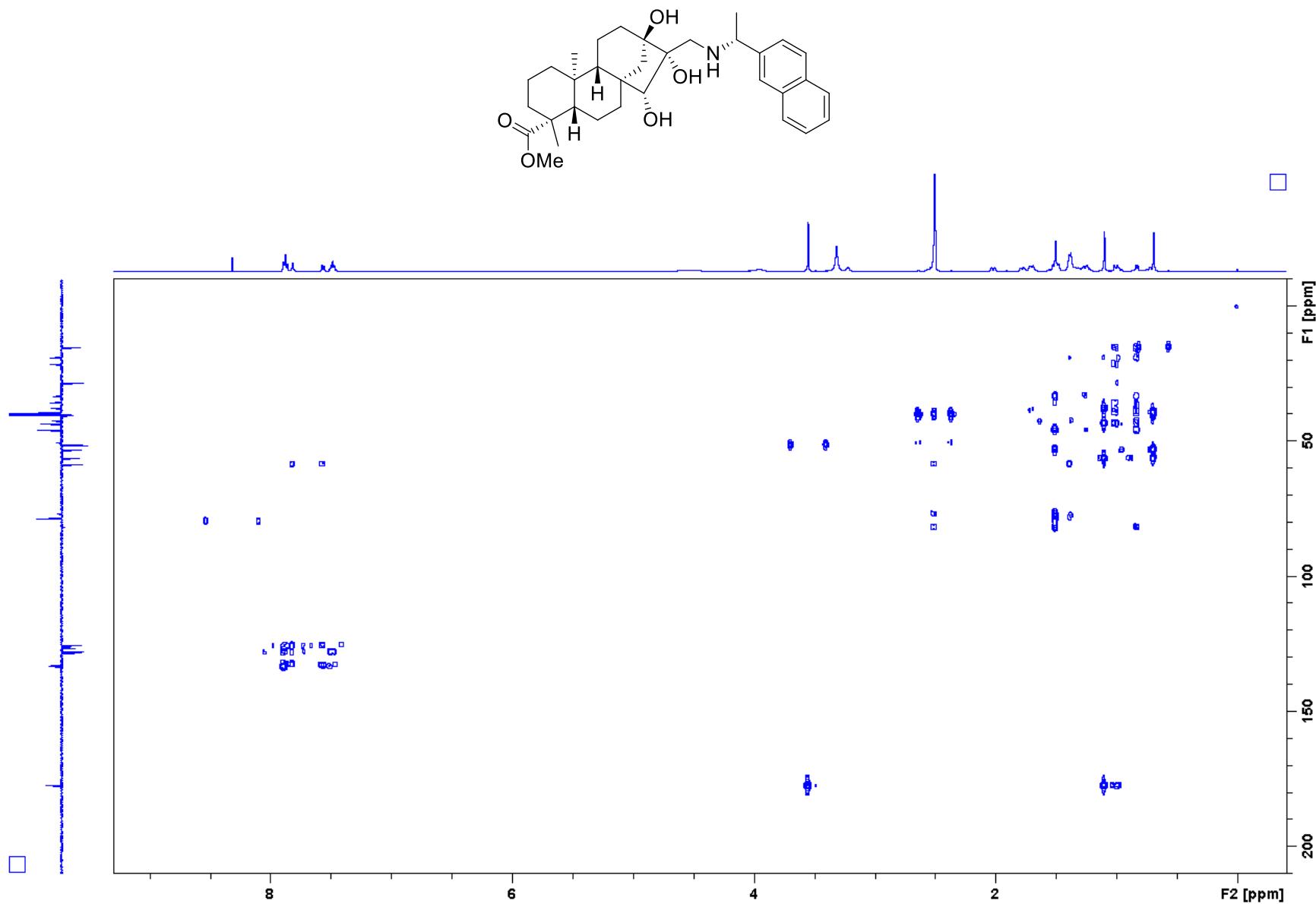
NOESY of compound (4*R*,6*aR*,7*R*,8*R*,9*S*,11*bS*)-methyl 7,8,9-trihydroxy-4,11*b*-dimethyl-8-(((*S*)-1-(naphthalen-2-yl)ethyl)amino)methyl)tetradecahydro-6*a*,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**13**)



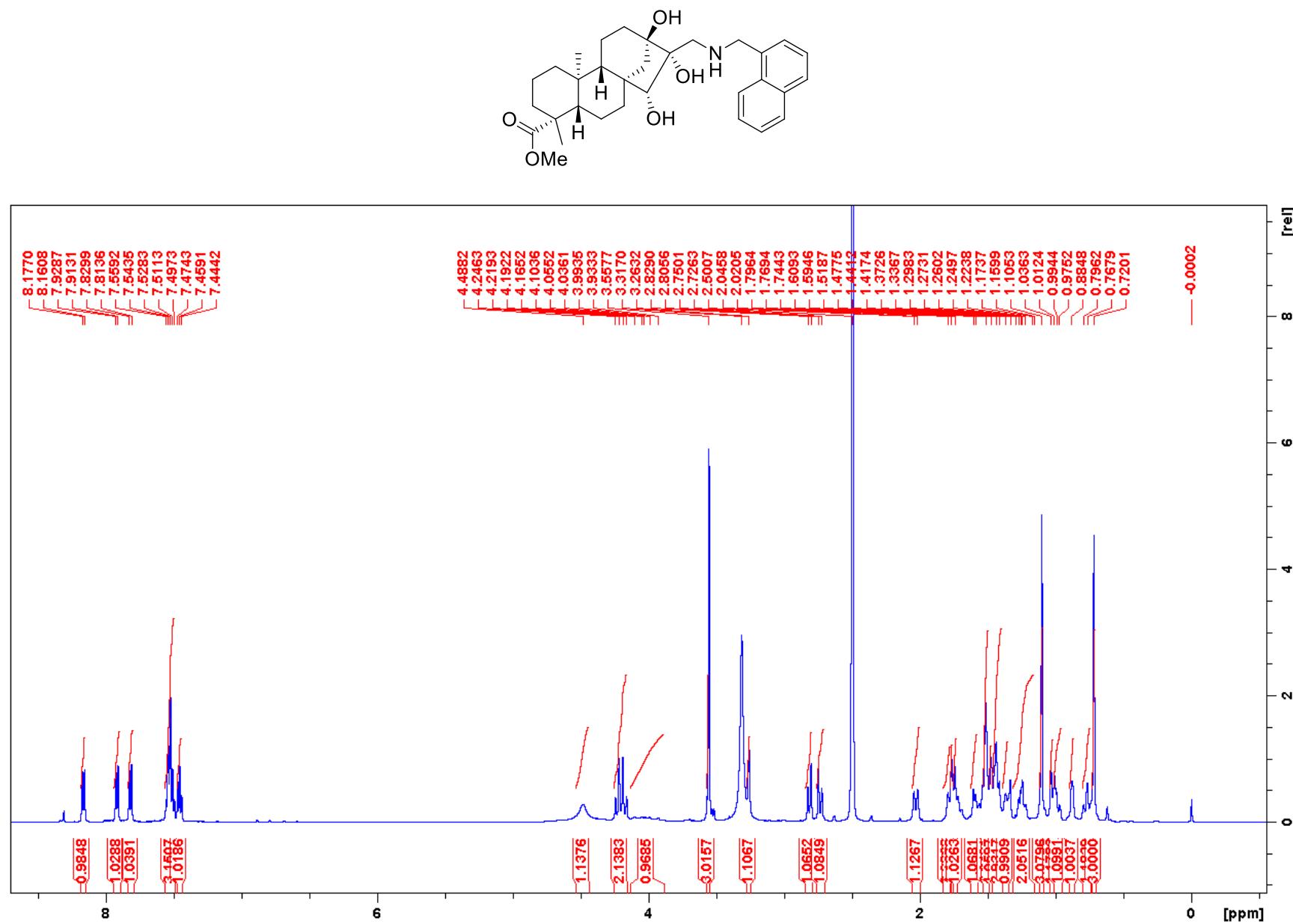
HSQC of compound (4*R*,6*aR*,7*R*,8*R*,9*S*,11*bS*)-methyl 7,8,9-trihydroxy-4,11*b*-dimethyl-8-(((*S*)-1-(naphthalen-2-yl)ethyl)amino)methyl)tetradecahydro-6*a*,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**13**)



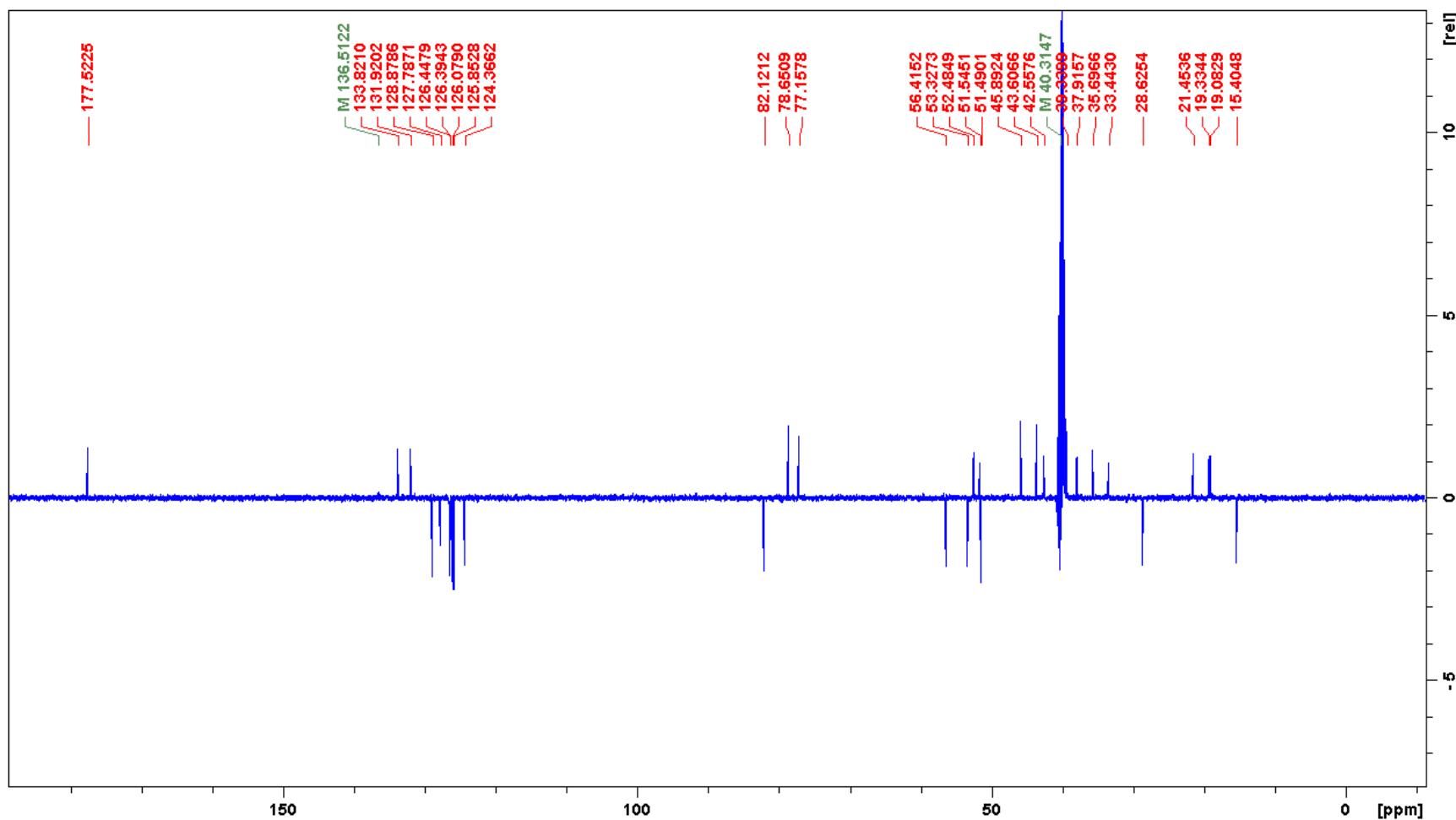
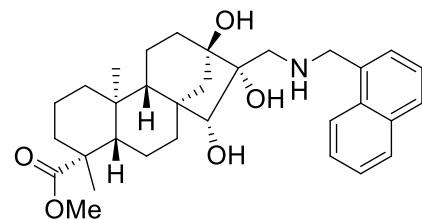
HMBC of compound (*4R,6aR,7R,8R,9S,11bS*)-methyl 7,8,9-trihydroxy-4,11b-dimethyl-8-(((*S*)-1-(naphthalen-2-yl)ethyl)amino)methyl)tetradecahydro-6a,9-methanocyclohepta[a]naphthalene-4-carboxylate (**13**)



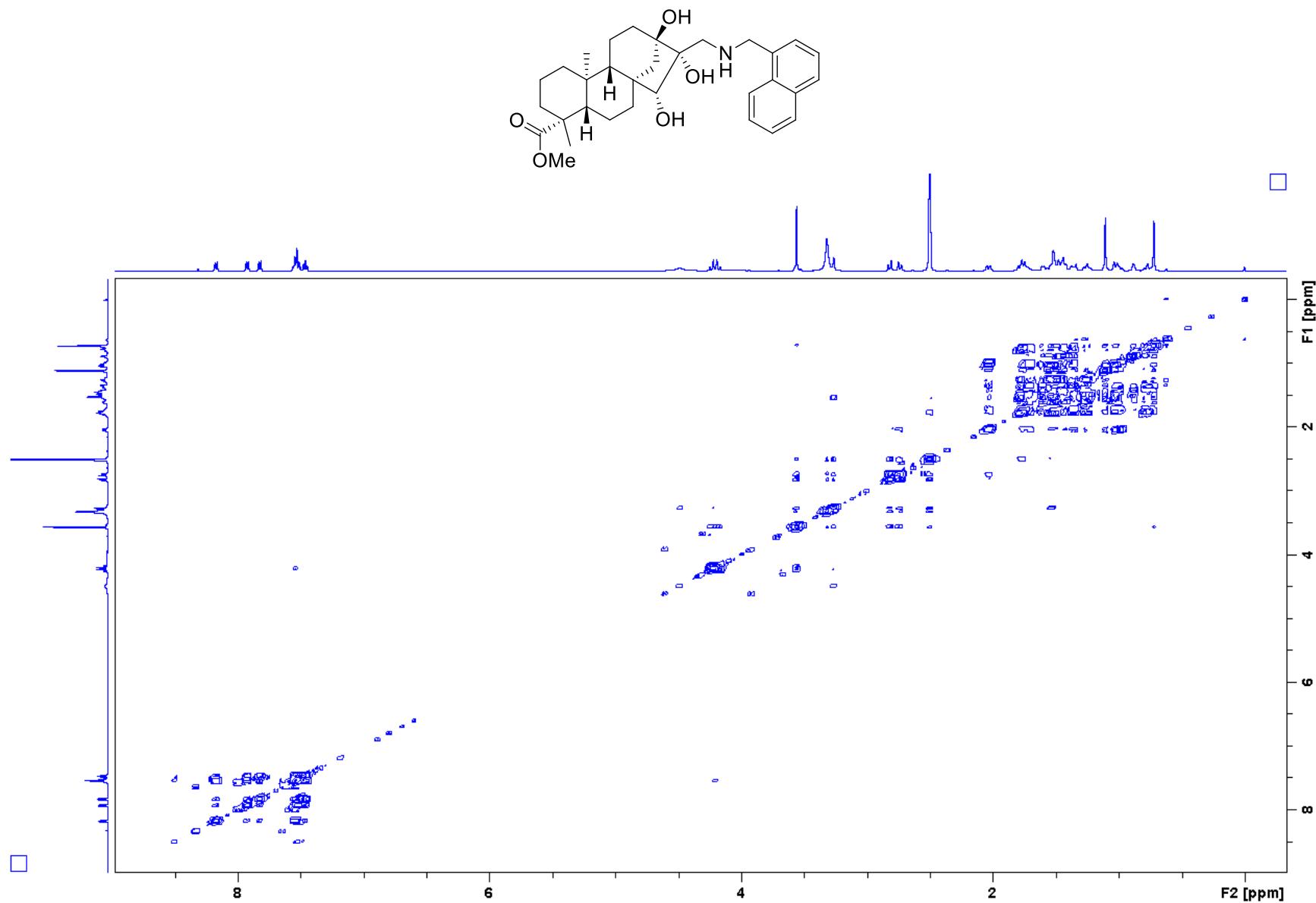
<sup>1</sup>H-NMR of compound (4*R*,6*aR*,7*R*,8*R*,9*S*,11*bS*)-methyl 7,8,9-trihydroxy-4,11*b*-dimethyl-8-((naphthalen-1-ylmethyl)amino)methyl)tetradecahydro-6*a*,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**14**)



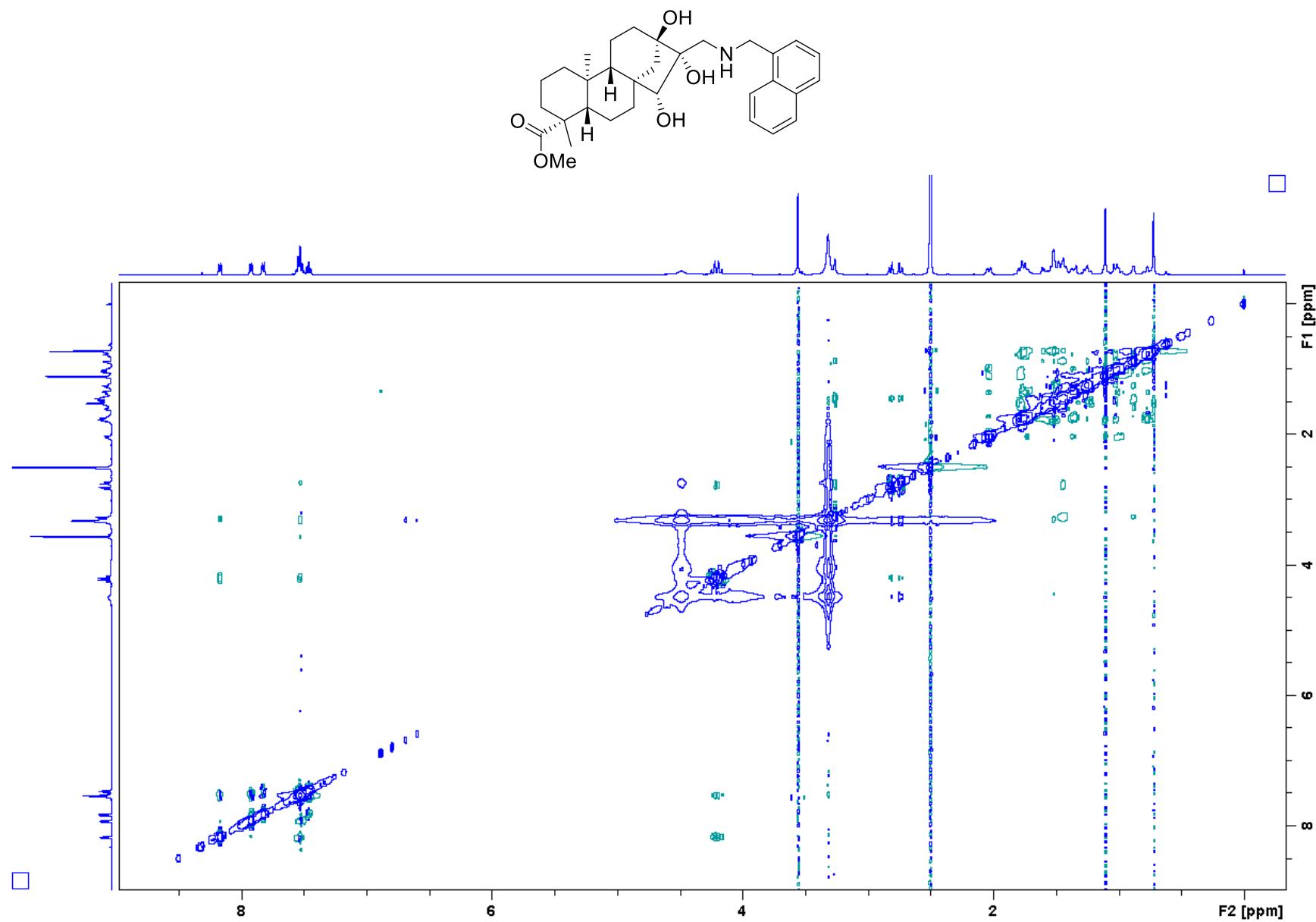
<sup>13</sup>C-NMR of compound (4*R*,6*aR*,7*R*,8*R*,9*S*,11*bS*)-methyl 7,8,9-trihydroxy-4,11*b*-dimethyl-8-((naphthalen-1-ylmethyl)amino)methyl)tetradecahydro-6*a*,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**14**)



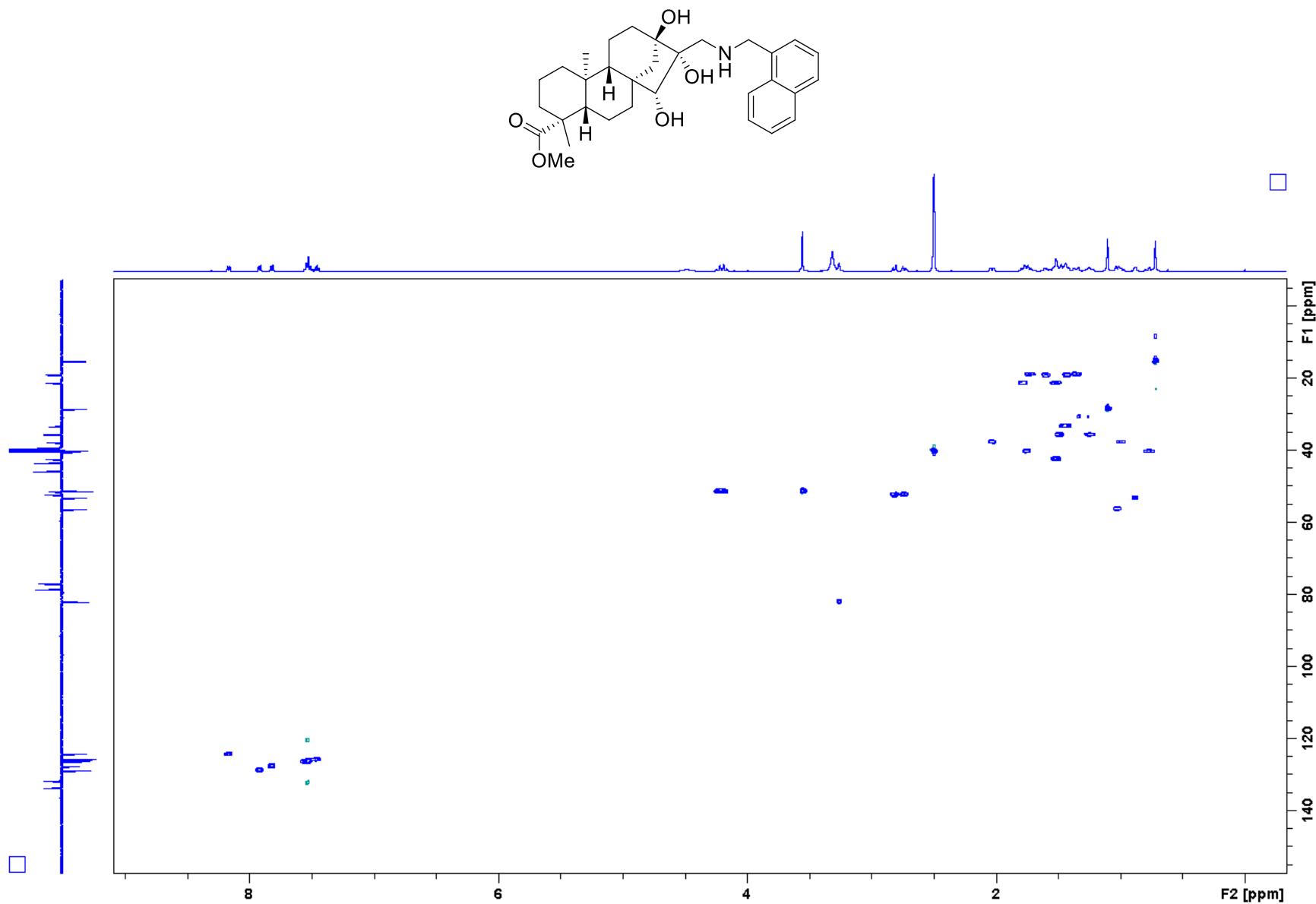
COSY of compound *(4R,6a*R*,7*R*,8*R*,9*S*,11*b**S*)-methyl 7,8,9-trihydroxy-4,11*b*-dimethyl-8-((naphthalen-1-ylmethyl)amino)methyl)tetradecahydro-6*a*,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (14)*



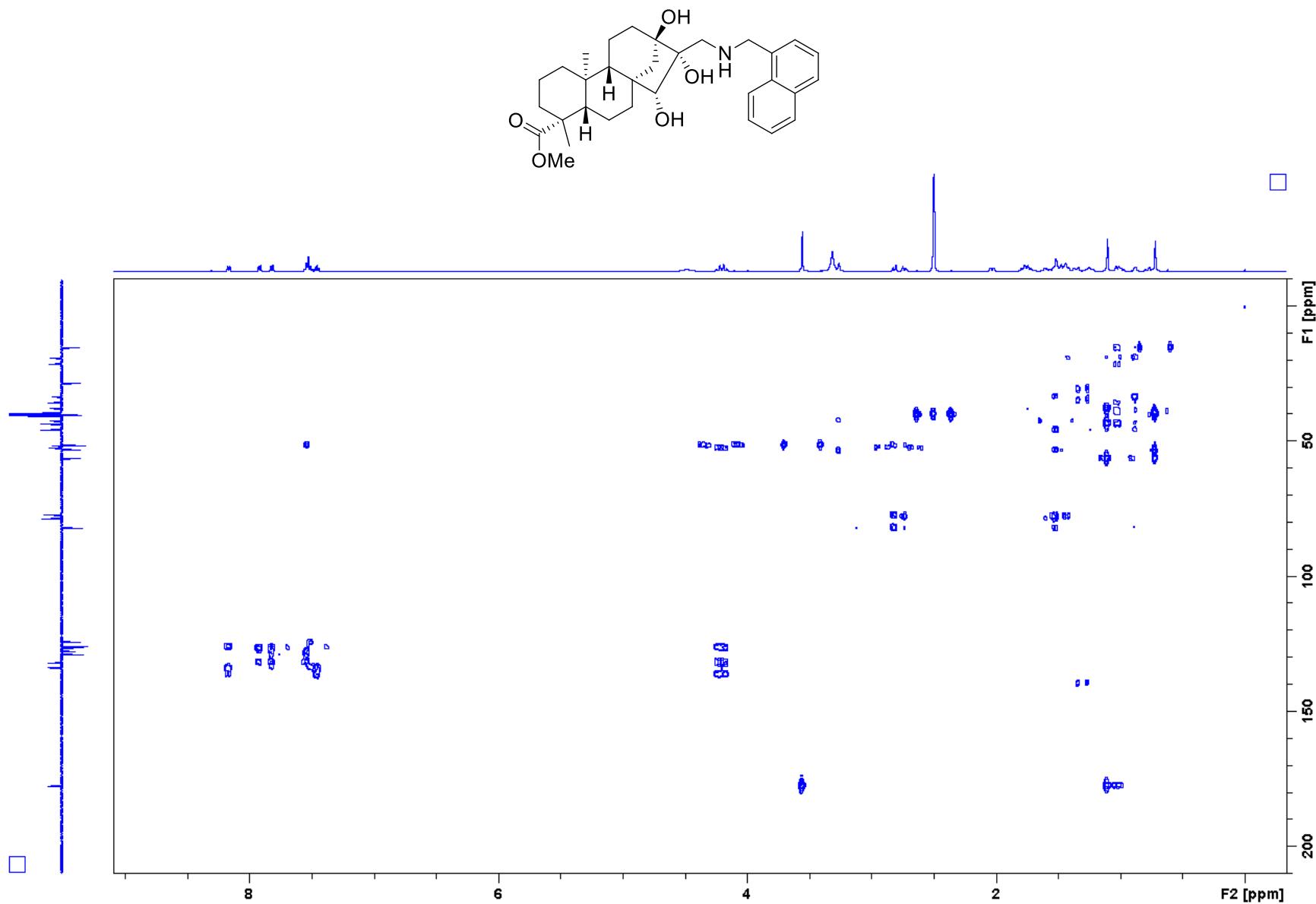
NOESY of compound (4*R*,6*aR*,7*R*,8*R*,9*S*,11*bS*)-methyl 7,8,9-trihydroxy-4,11*b*-dimethyl-8-((naphthalen-1-ylmethyl)amino)methyl)tetradecahydro-6*a*,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**14**)



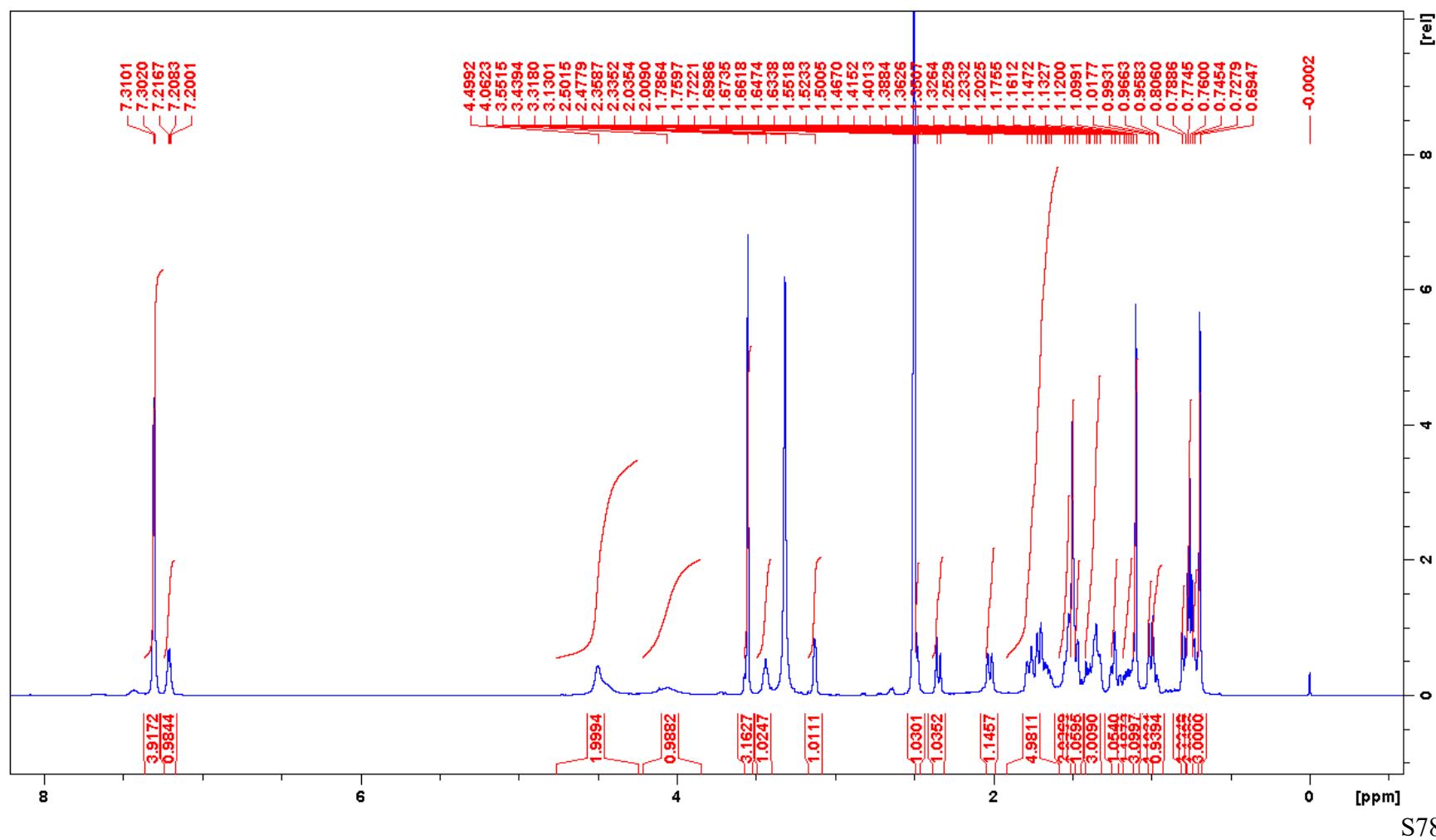
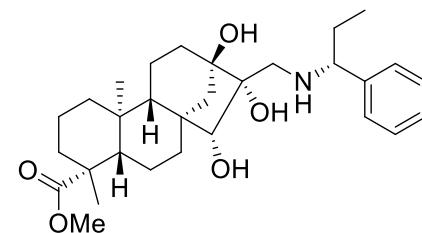
HSQC of compound (4*R*,6*aR*,7*R*,8*R*,9*S*,11*bS*)-methyl 7,8,9-trihydroxy-4,11*b*-dimethyl-8-((naphthalen-1-ylmethyl)amino)methyl)tetradecahydro-6*a*,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**14**)



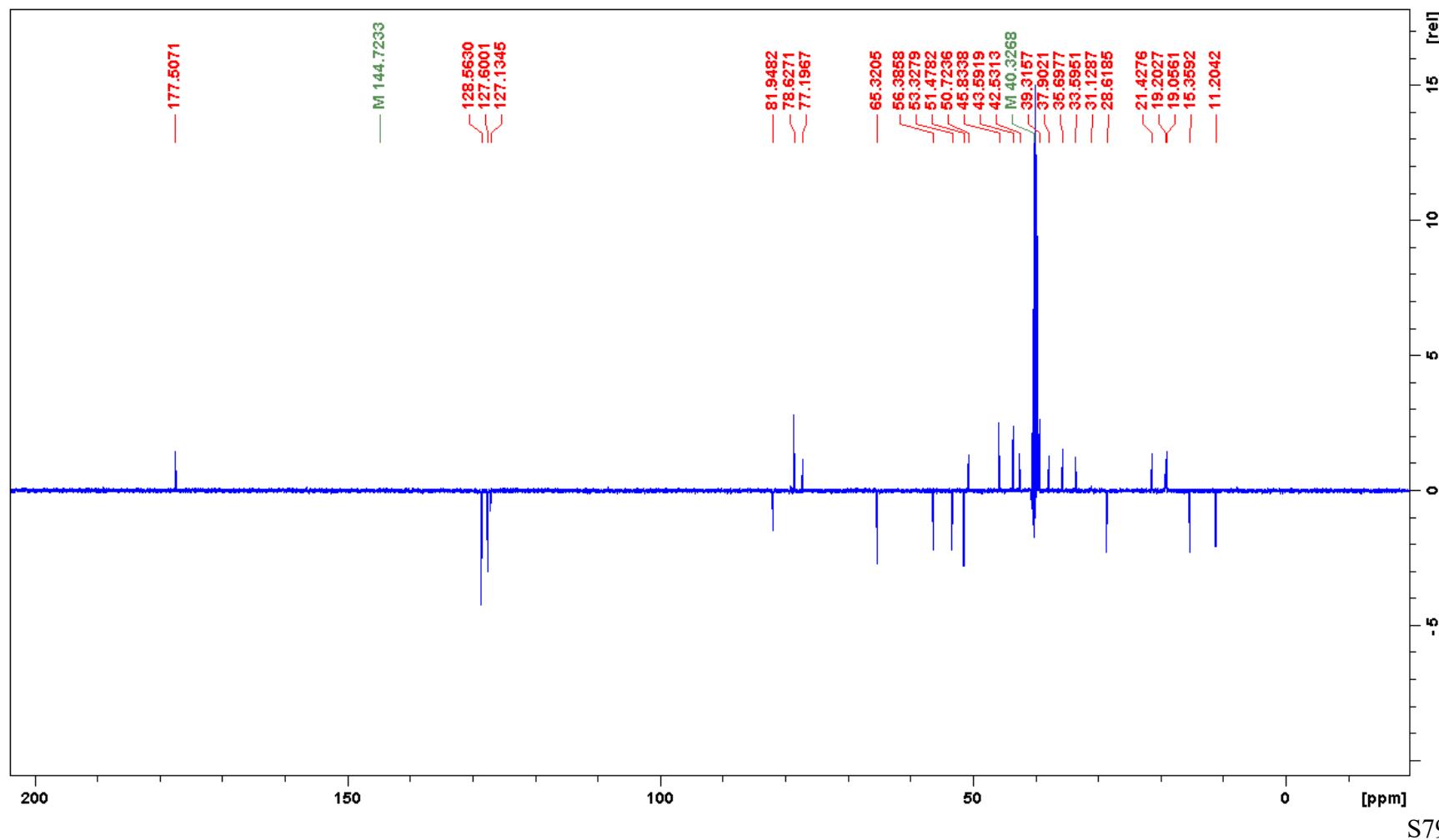
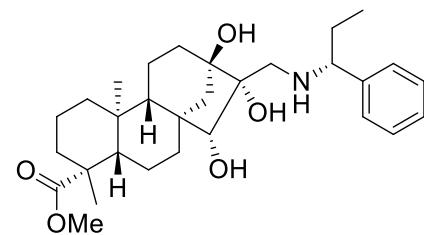
HMBC of compound(4*R*,6*aR*,7*R*,8*R*,9*S*,11*bS*)-methyl 7,8,9-trihydroxy-4,11*b*-dimethyl-8-((naphthalen-1-ylmethyl)amino)methyl)tetradecahydro-6*a*,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**14**)



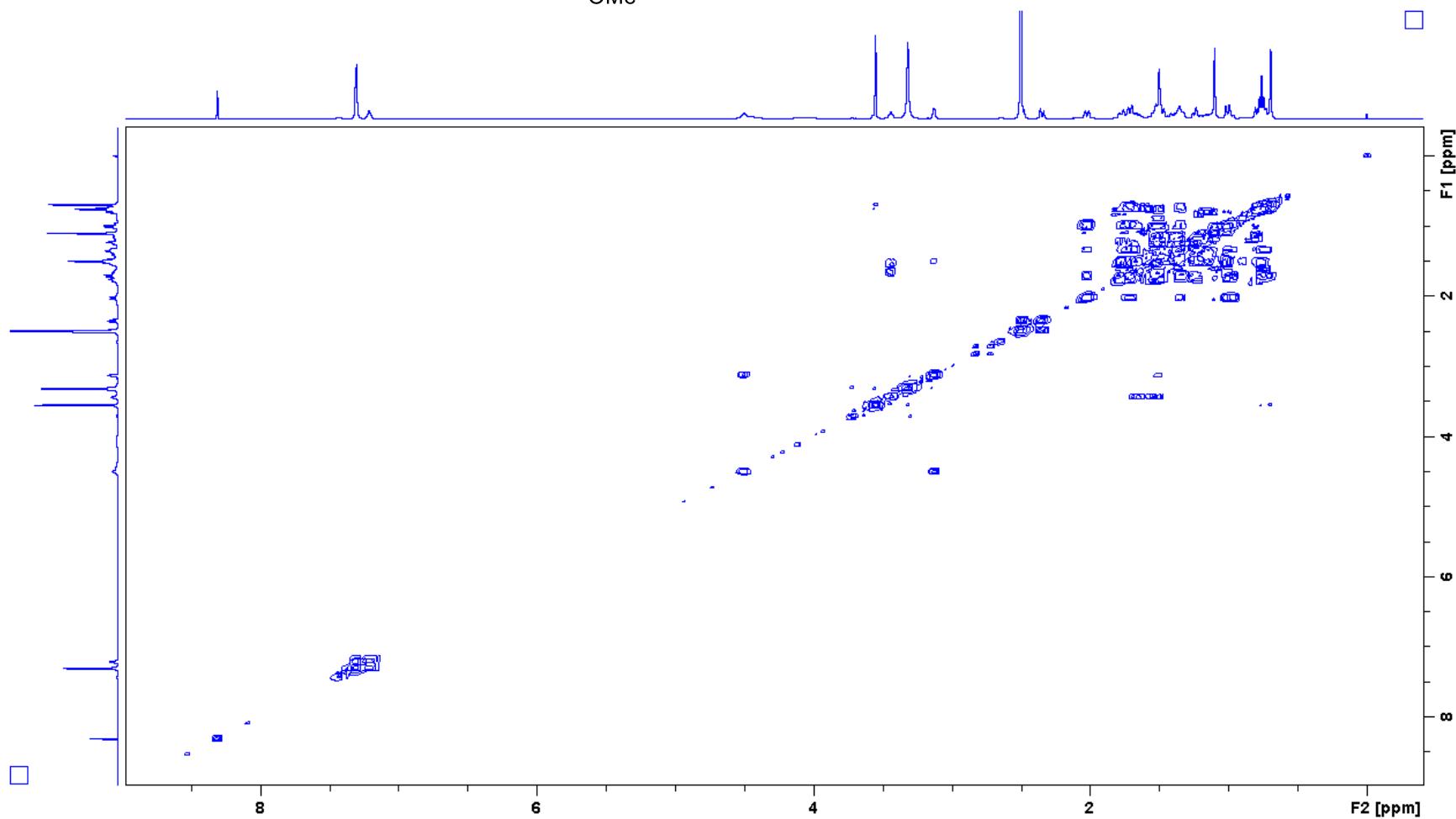
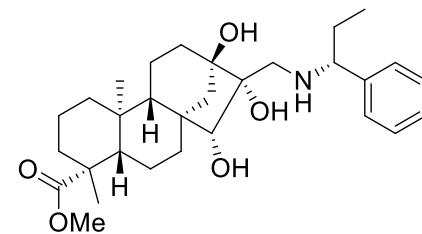
<sup>1</sup>H-NMR of compound (4*R*,6*aR*,7*R*,8*R*,9*S*,11*bS*)-methyl 7,8,9-trihydroxy-4,11*b*-dimethyl-8-(((*R*)-1-phenylpropyl)amino)methyl)tetradecahydro-6*a*,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**15**)



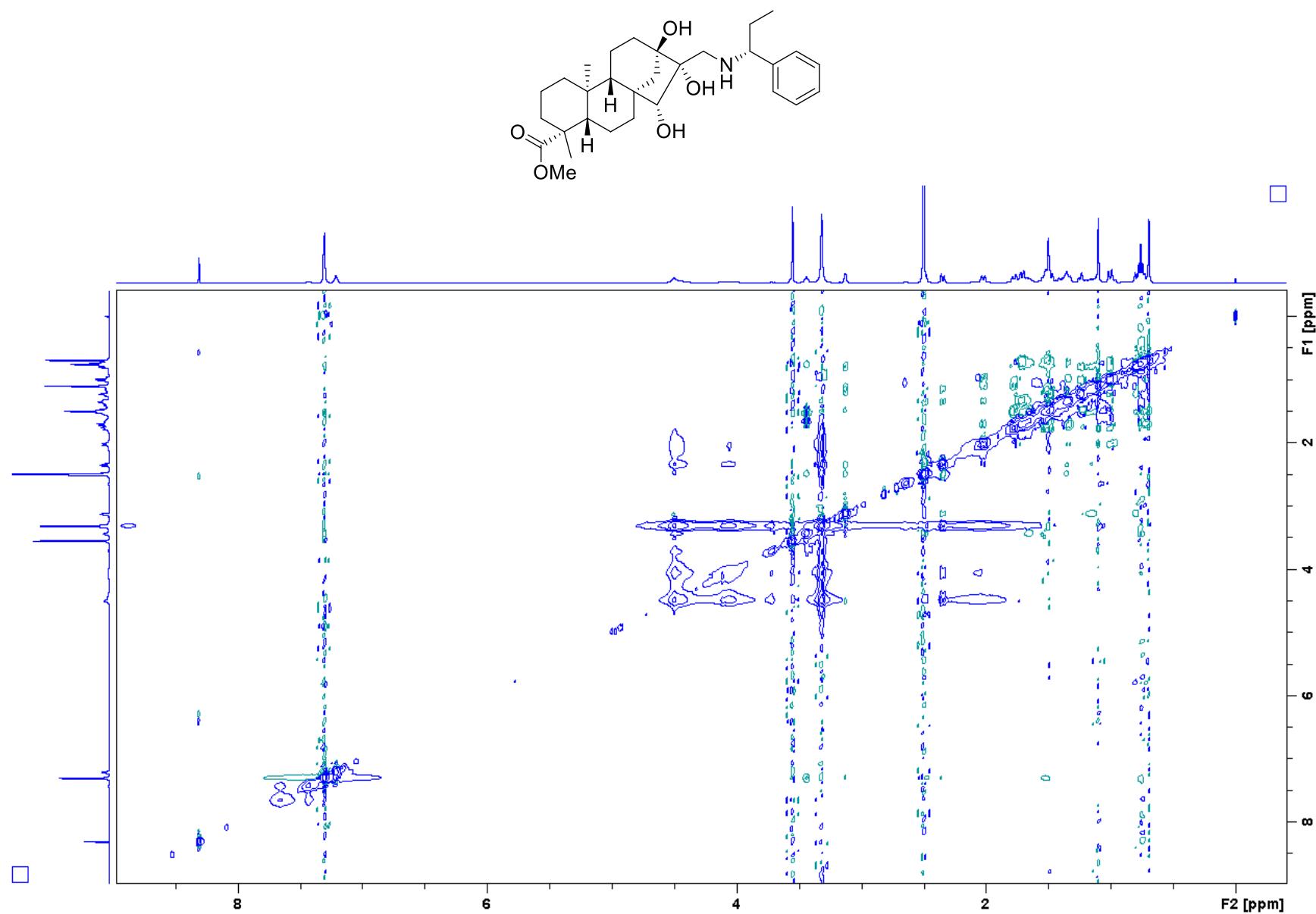
<sup>13</sup>C-NMR of compound (4*R*,6*aR*,7*R*,8*R*,9*S*,11*bS*)-methyl 7,8,9-trihydroxy-4,11*b*-dimethyl-8-(((*R*)-1-phenylpropyl)amino)methyl)tetradecahydro-6*a*,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**15**)



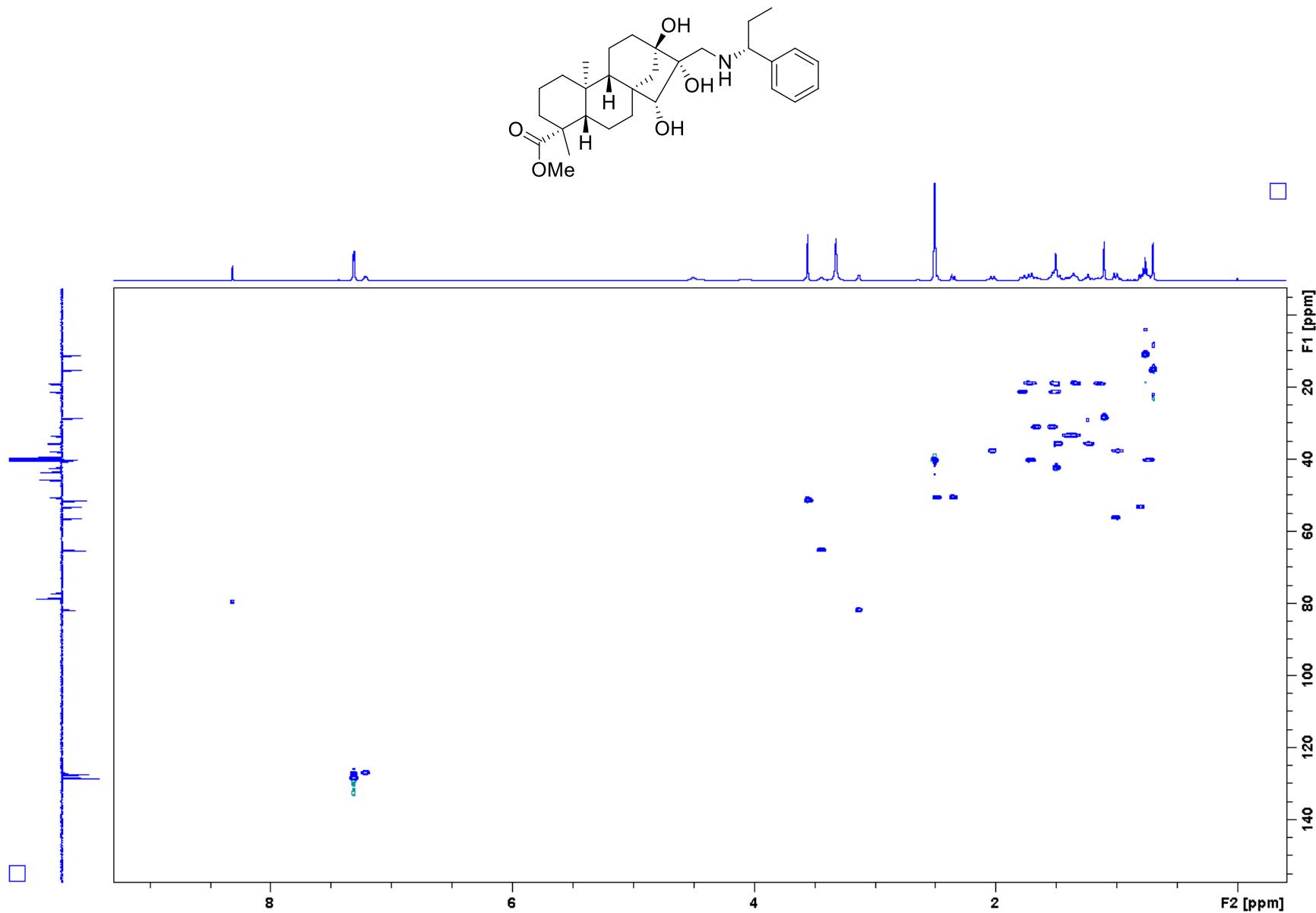
COSY of compound (*4R,6aR,7R,8R,9S,11bS*)-methyl 7,8,9-trihydroxy-4,11b-dimethyl-8-(((*R*)-1-phenylpropyl)amino)methyl)tetradecahydro-6a,9-methanocyclohepta[a]naphthalene-4-carboxylate (**15**)



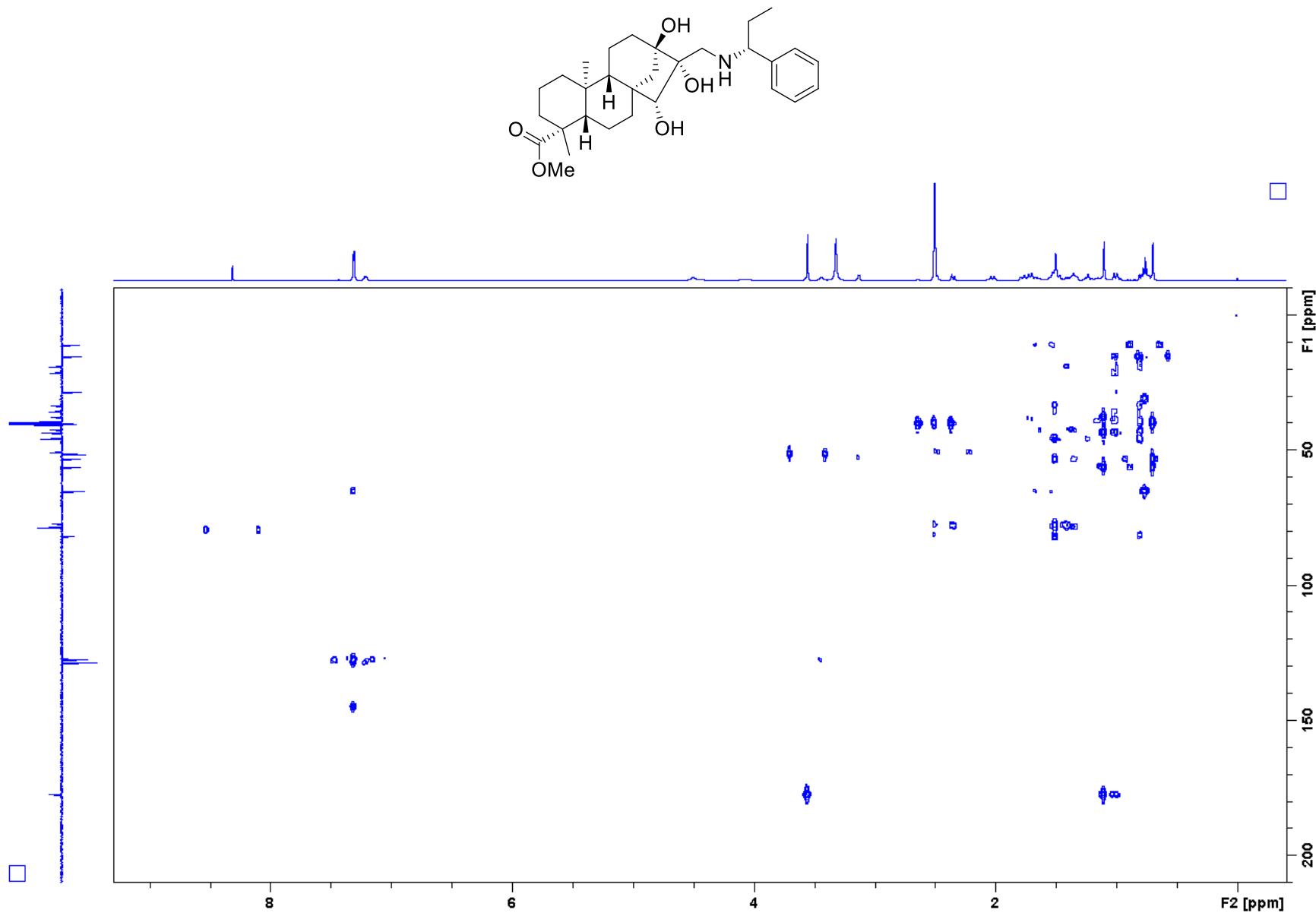
NOESY of compound (4*R*,6*aR*,7*R*,8*R*,9*S*,11*bS*)-methyl 7,8,9-trihydroxy-4,11*b*-dimethyl-8-(((*R*)-1-phenylpropyl)amino)methyl)tetradecahydro-6*a*,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**15**)



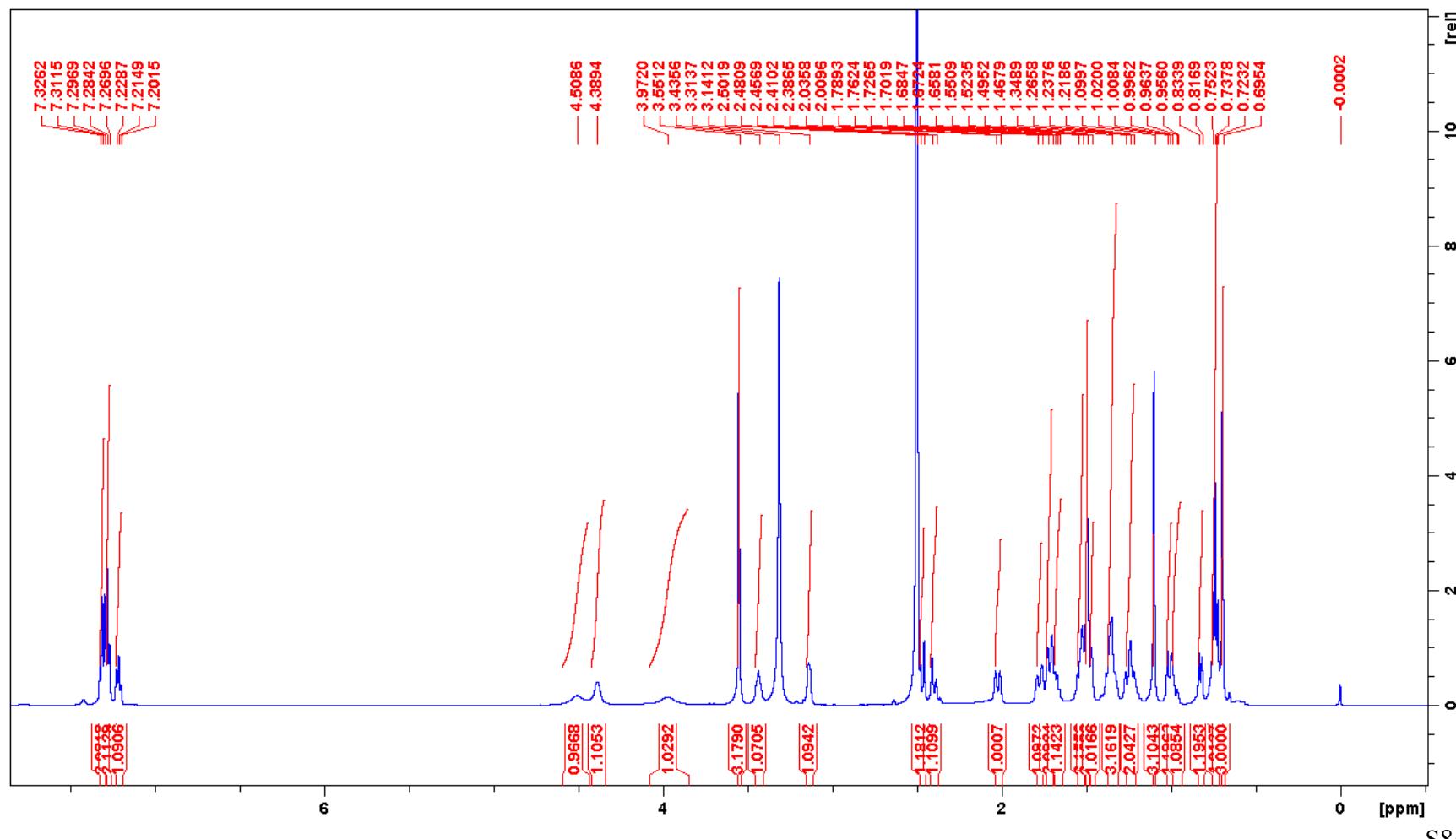
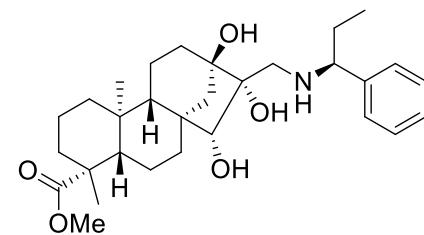
HSQC of compound (4*R*,6*aR*,7*R*,8*R*,9*S*,11*bS*)-methyl 7,8,9-trihydroxy-4,11*b*-dimethyl-8-(((*R*)-1-phenylpropyl)amino)methyl)tetradecahydro-6*a*,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**15**)



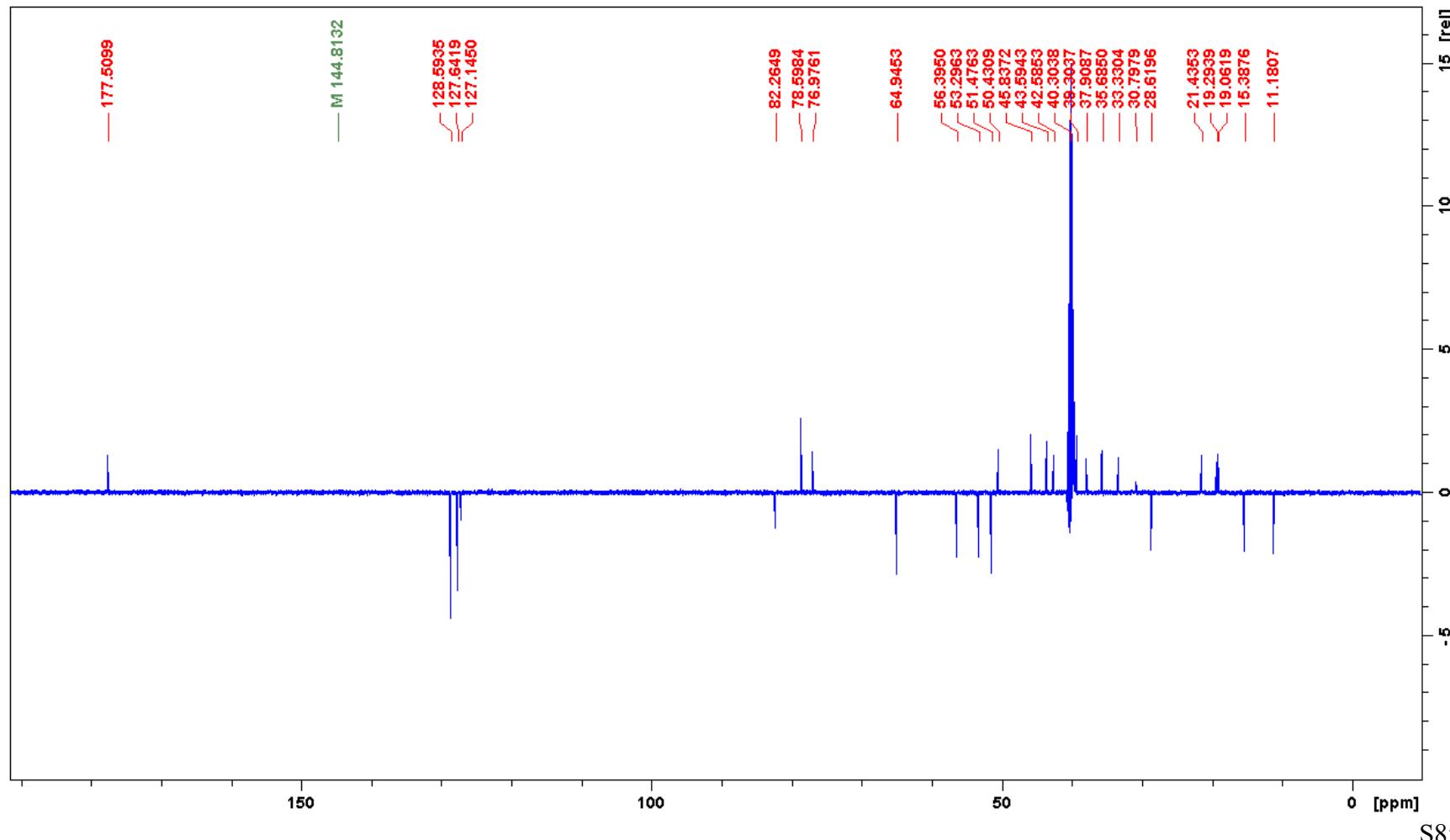
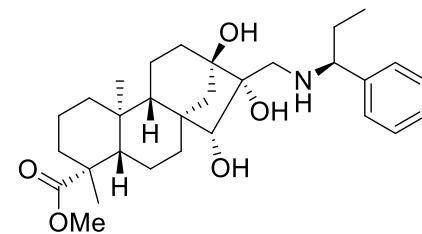
HMBC of compound (*4R,6aR,7R,8R,9S,11bS*)-methyl 7,8,9-trihydroxy-4,11b-dimethyl-8-(((*R*)-1-phenylpropyl)amino)methyltetradecahydro-6a,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**15**)



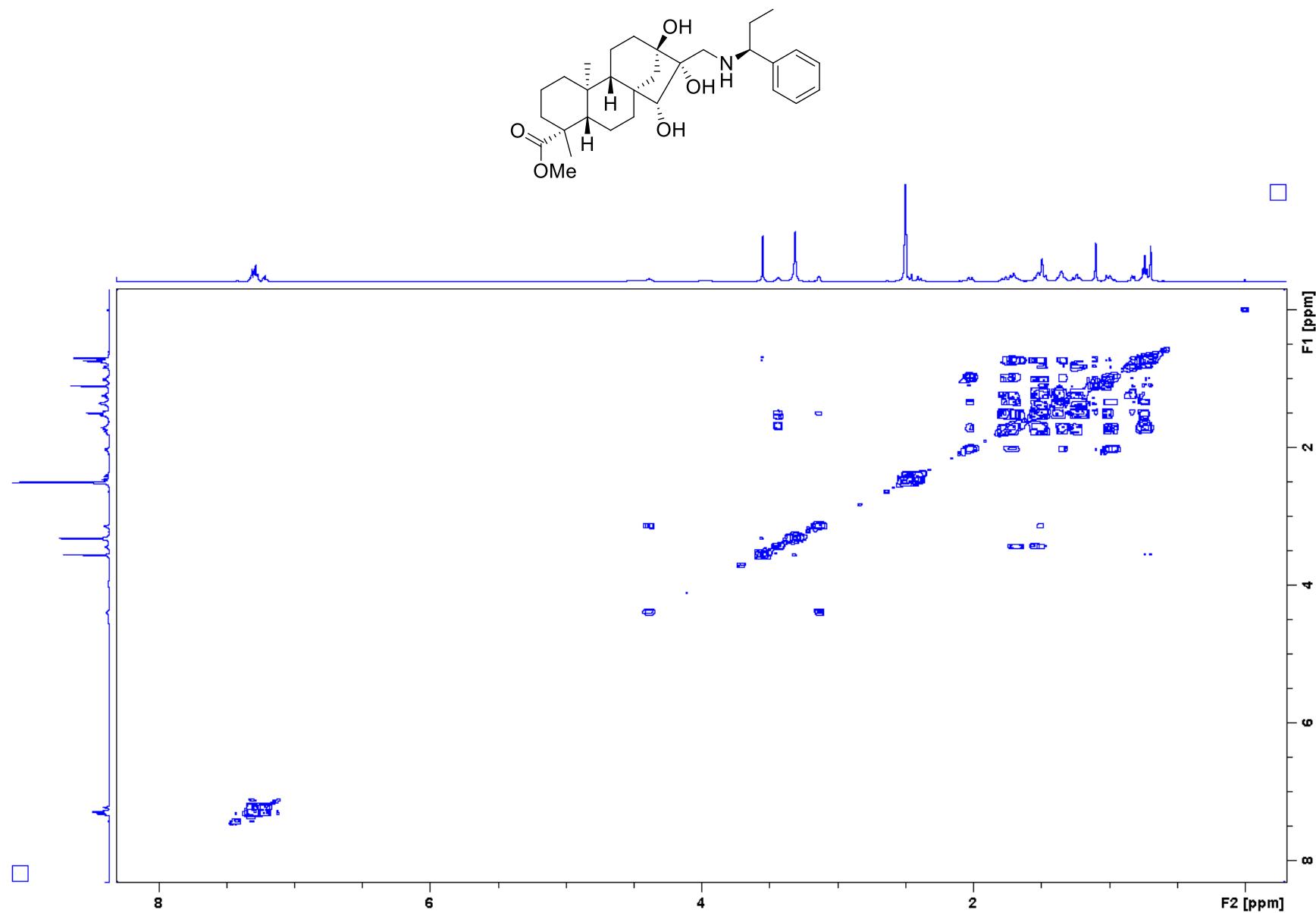
<sup>1</sup>H-NMR of compound (4*R*,6*aR*,7*R*,8*R*,9*S*,11*bS*)-methyl 7,8,9-trihydroxy-4,11*b*-dimethyl-8-(((*S*)-1-phenylpropyl)amino)methyl)tetradecahydro-6*a*,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**16**)



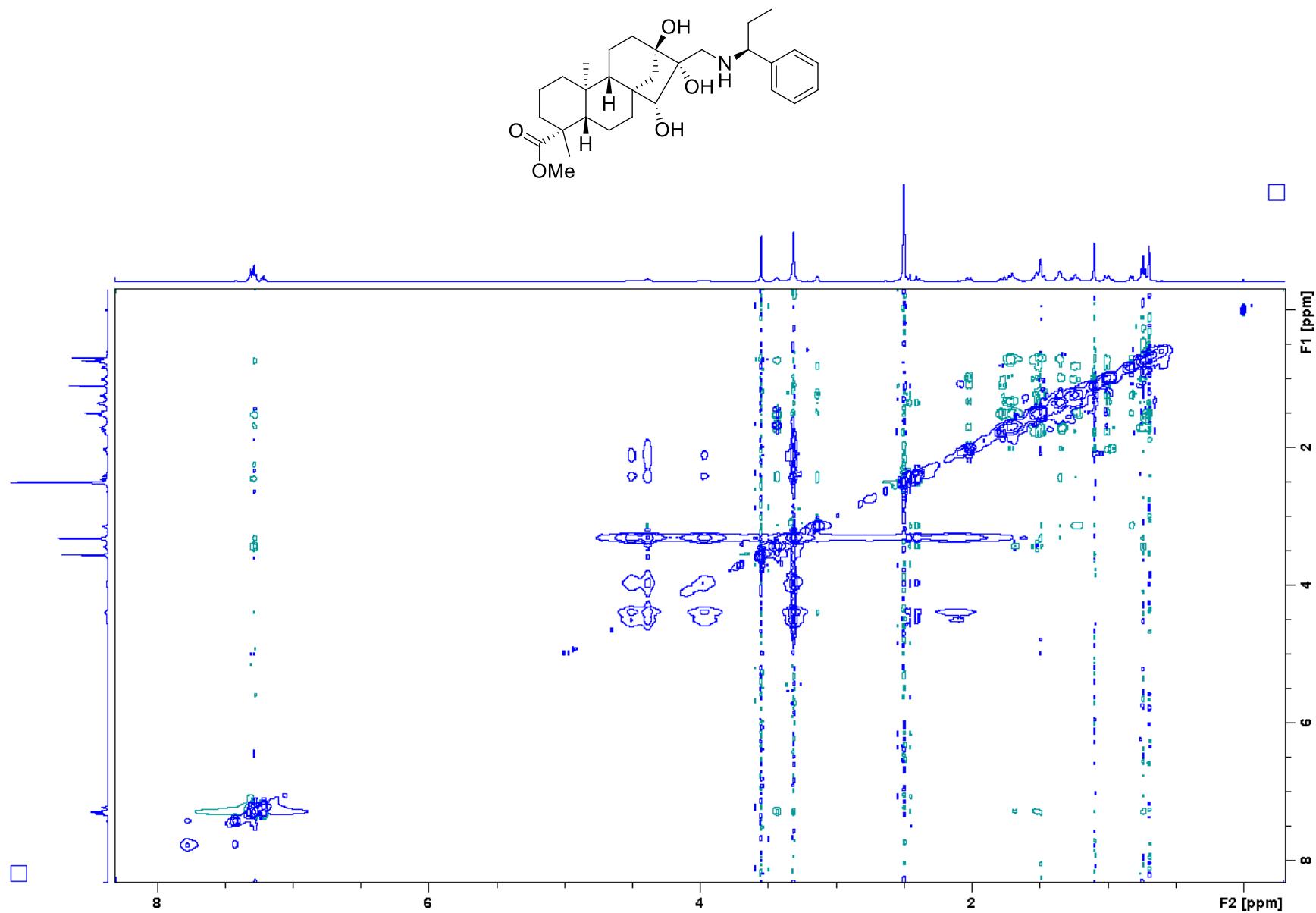
<sup>13</sup>C-NMR of compound (4*R*,6*aR*,7*R*,8*R*,9*S*,11*bS*)-methyl 7,8,9-trihydroxy-4,11*b*-dimethyl-8-(((*S*)-1-phenylpropyl)amino)methyl)tetradecahydro-6*a*,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**16**)



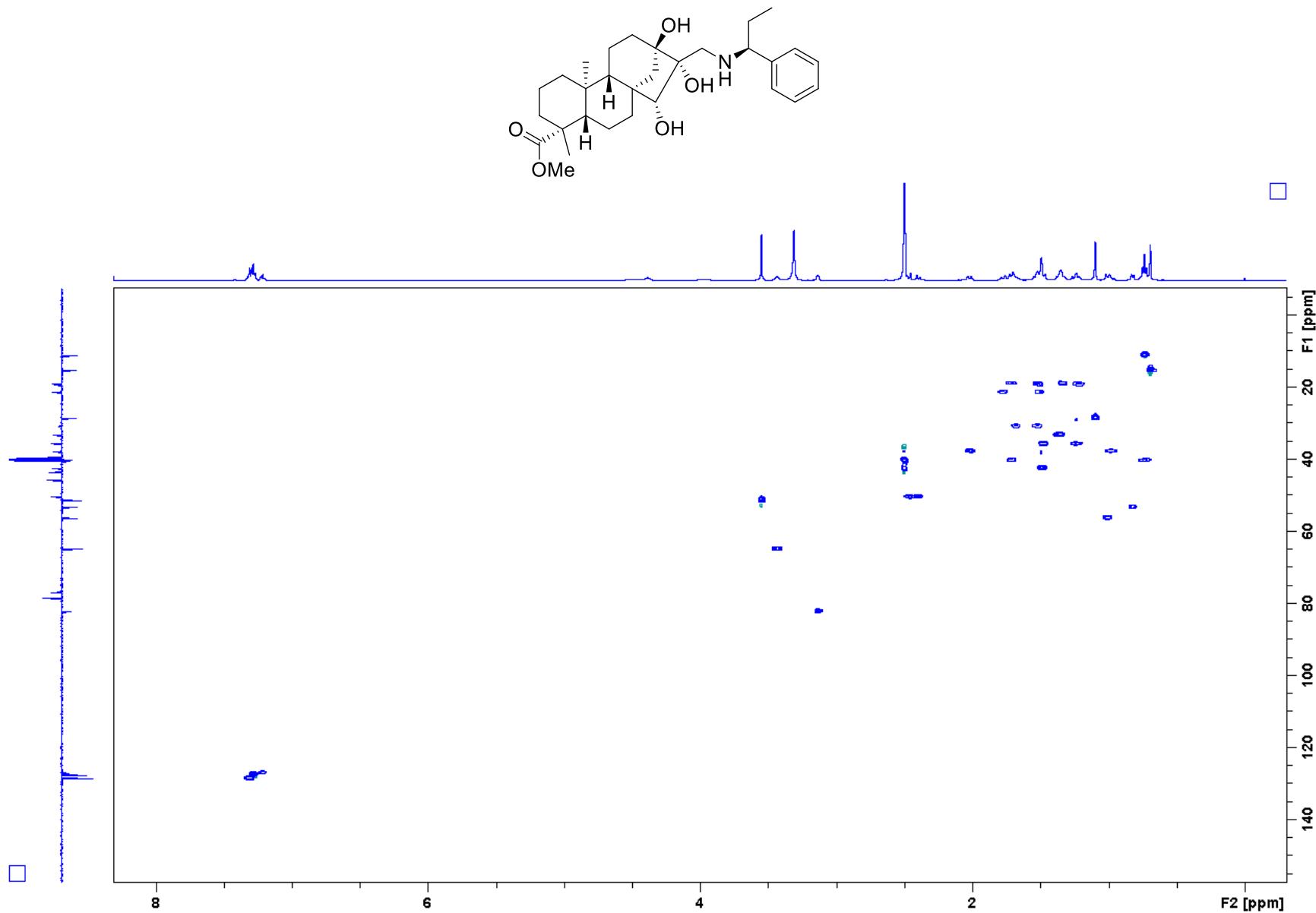
COSY of compound (*4R,6aR,7R,8R,9S,11bS*)-methyl 7,8,9-trihydroxy-4,11b-dimethyl-8-(((*S*)-1-phenylpropyl)amino)methyl)tetradecahydro-6a,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**16**)



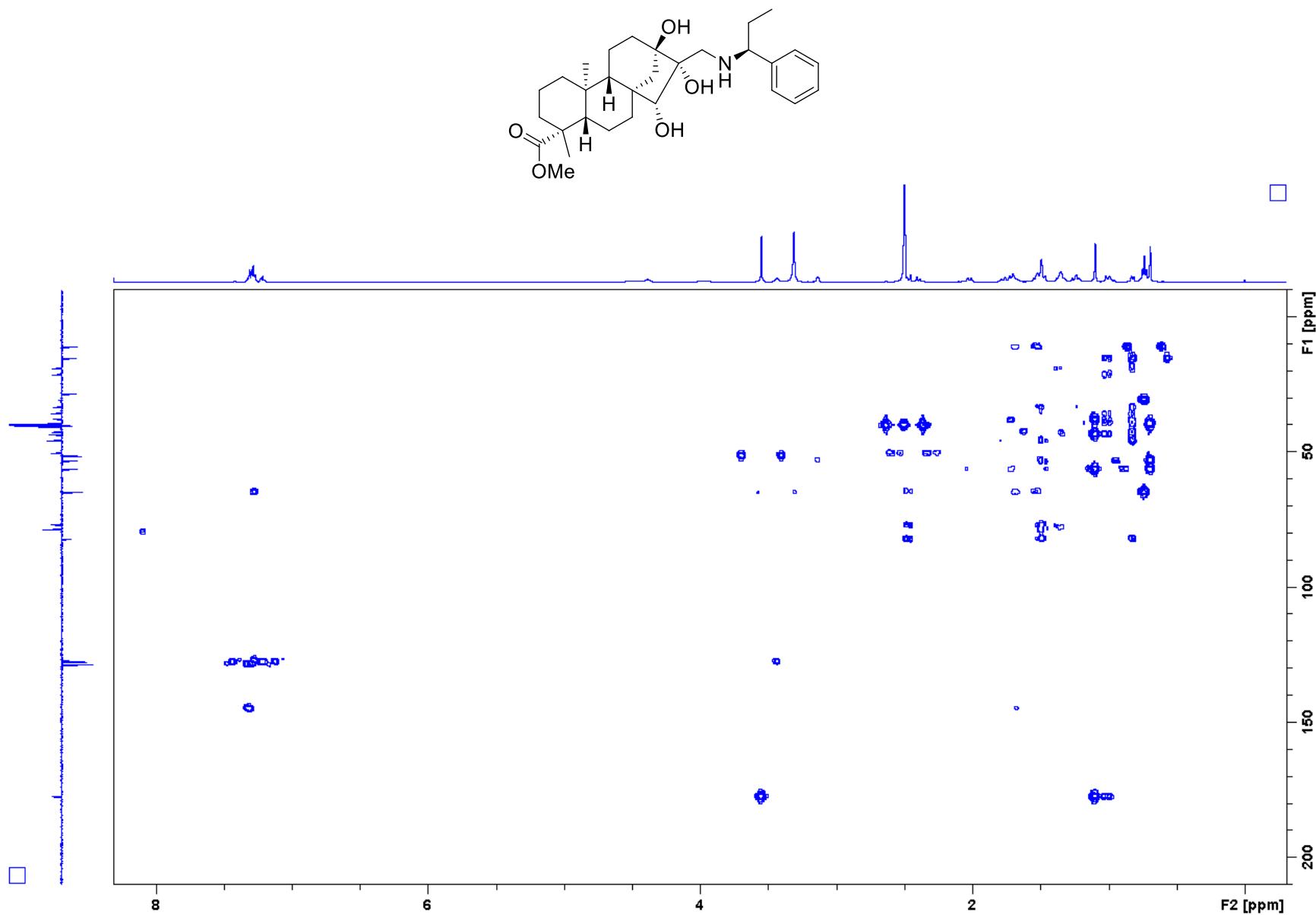
NOESY of compound (*4R,6aR,7R,8R,9S,11bS*)-methyl 7,8,9-trihydroxy-4,11b-dimethyl-8-(((*S*)-1-phenylpropyl)amino)methyl)tetradecahydro-6a,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**16**)



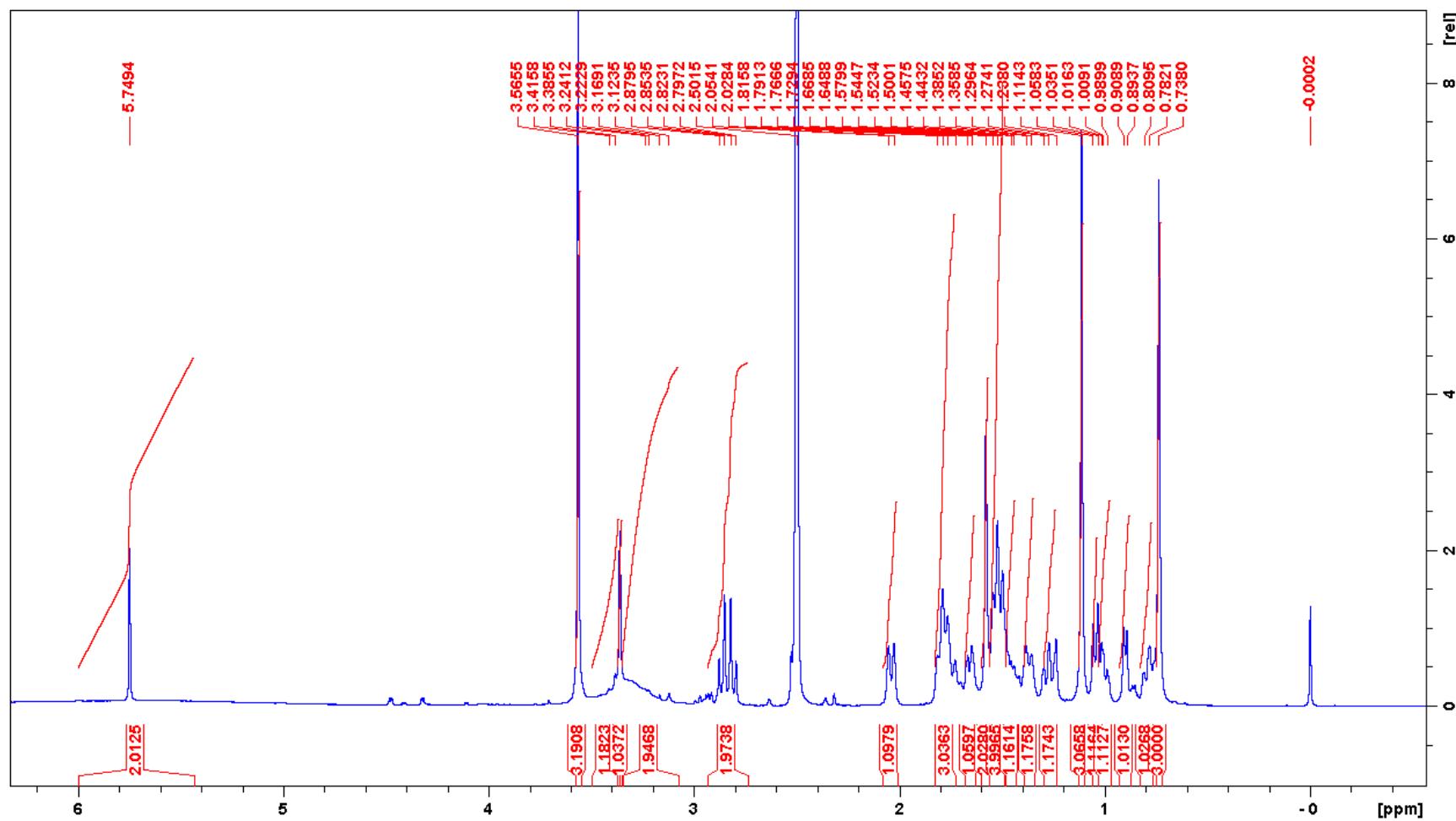
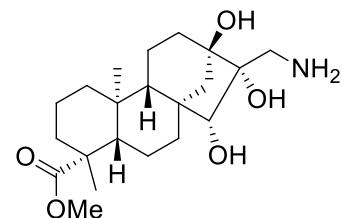
HSQC of compound (4*R*,6*aR*,7*R*,8*R*,9*S*,11*bS*)-methyl 7,8,9-trihydroxy-4,11*b*-dimethyl-8-(((*S*)-1-phenylpropyl)amino)methyl)tetradecahydro-6*a*,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**16**)



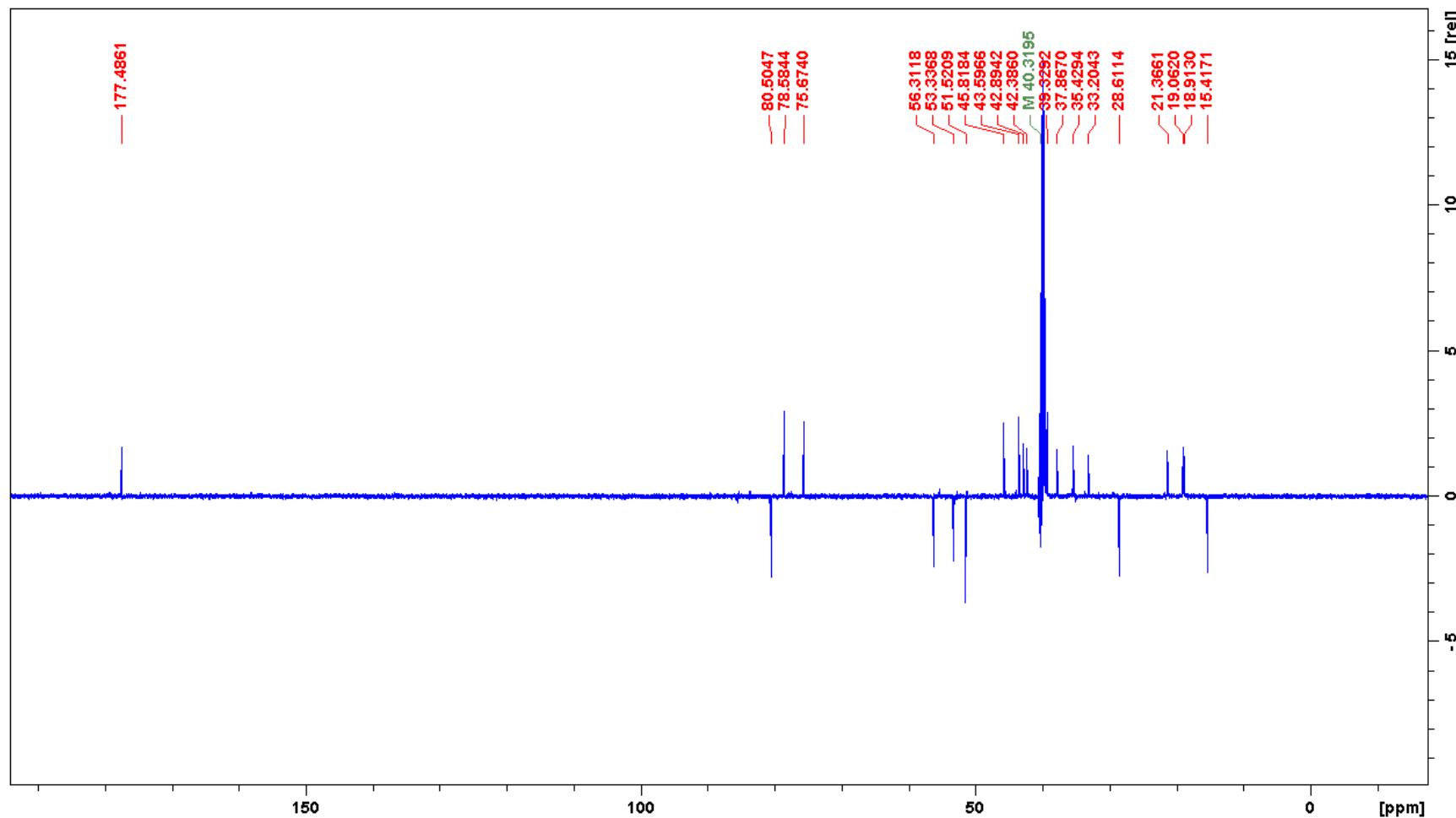
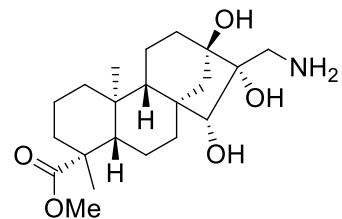
HMBC of compound (*4R,6aR,7R,8R,9S,11bS*)-methyl 7,8,9-trihydroxy-4,11b-dimethyl-8-(((*S*)-1-phenylpropyl)amino)methyltetradecahydro-6a,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**16**)



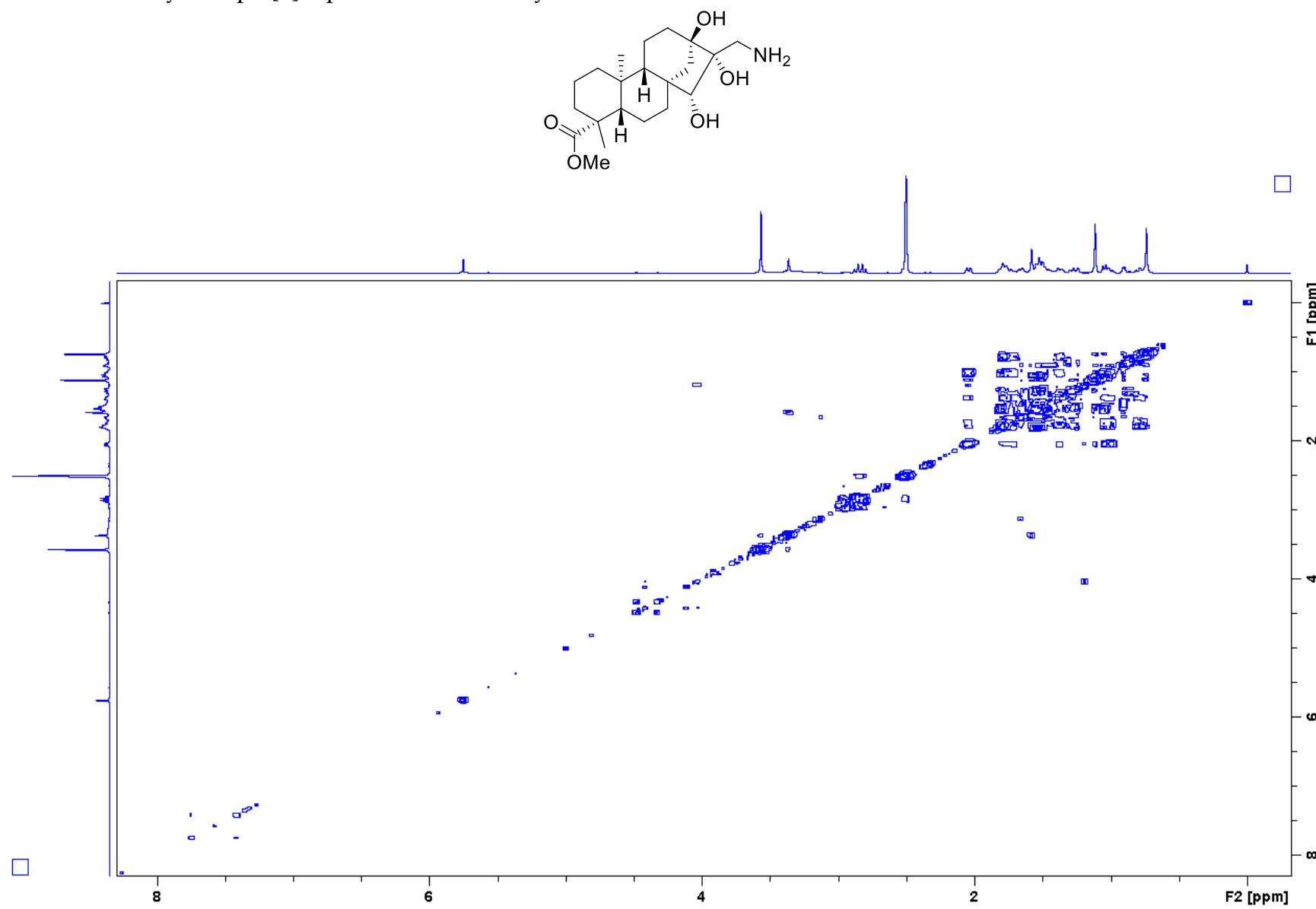
<sup>1</sup>H-NMR of compound (4*R*,6*aR*,7*R*,8*R*,9*S*,11*bS*)-methyl 8-(aminomethyl)-7,8,9-trihydroxy-4,11*b*-dimethyltetradecahydro-6*a*,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**17**)



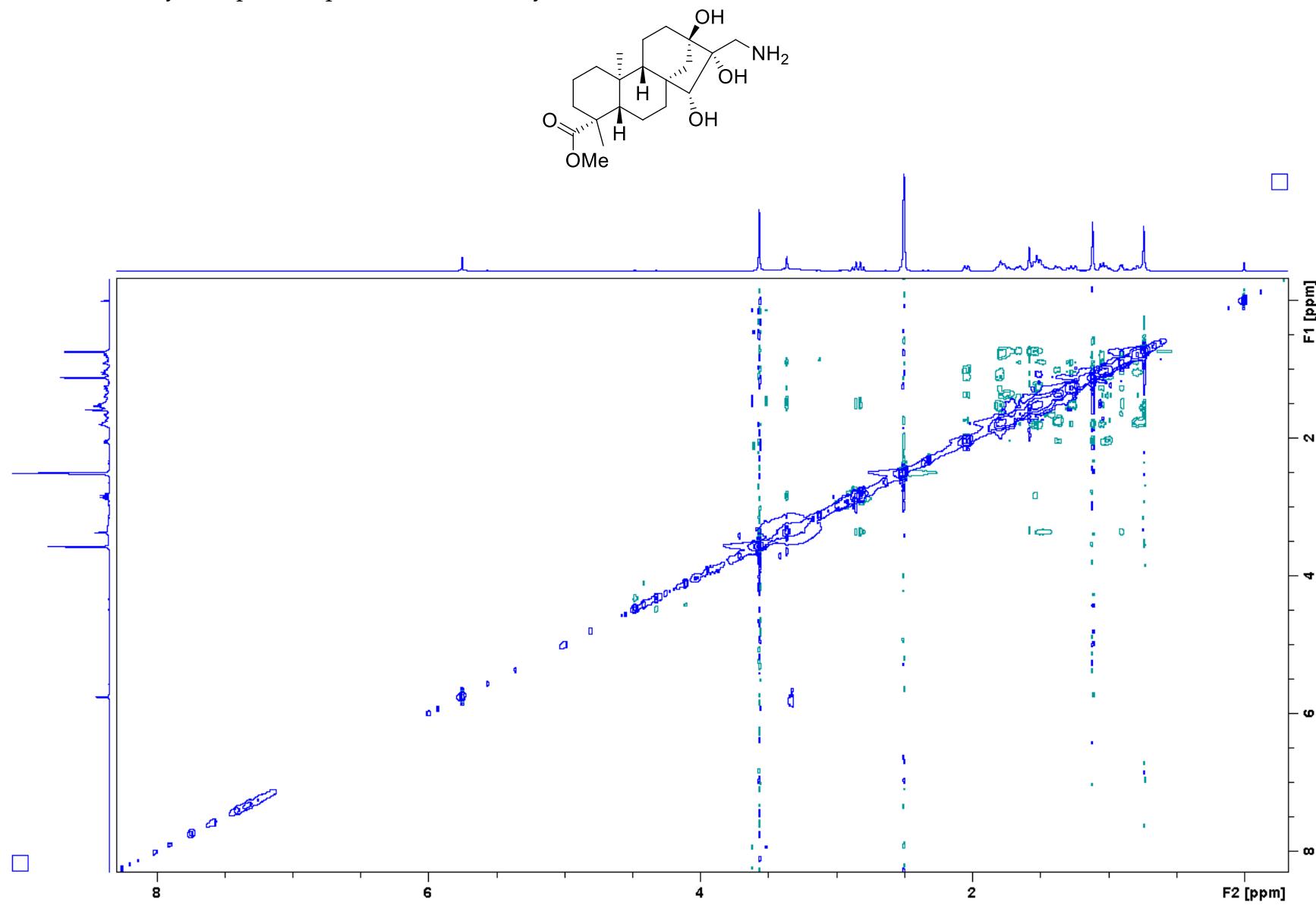
<sup>13</sup>C-NMR of compound (4*R*,6*aR*,7*R*,8*R*,9*S*,11*bS*)-methyl 8-(aminomethyl)-7,8,9-trihydroxy-4,11*b*-dimethyltetradecahydro-6*a*,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**17**)



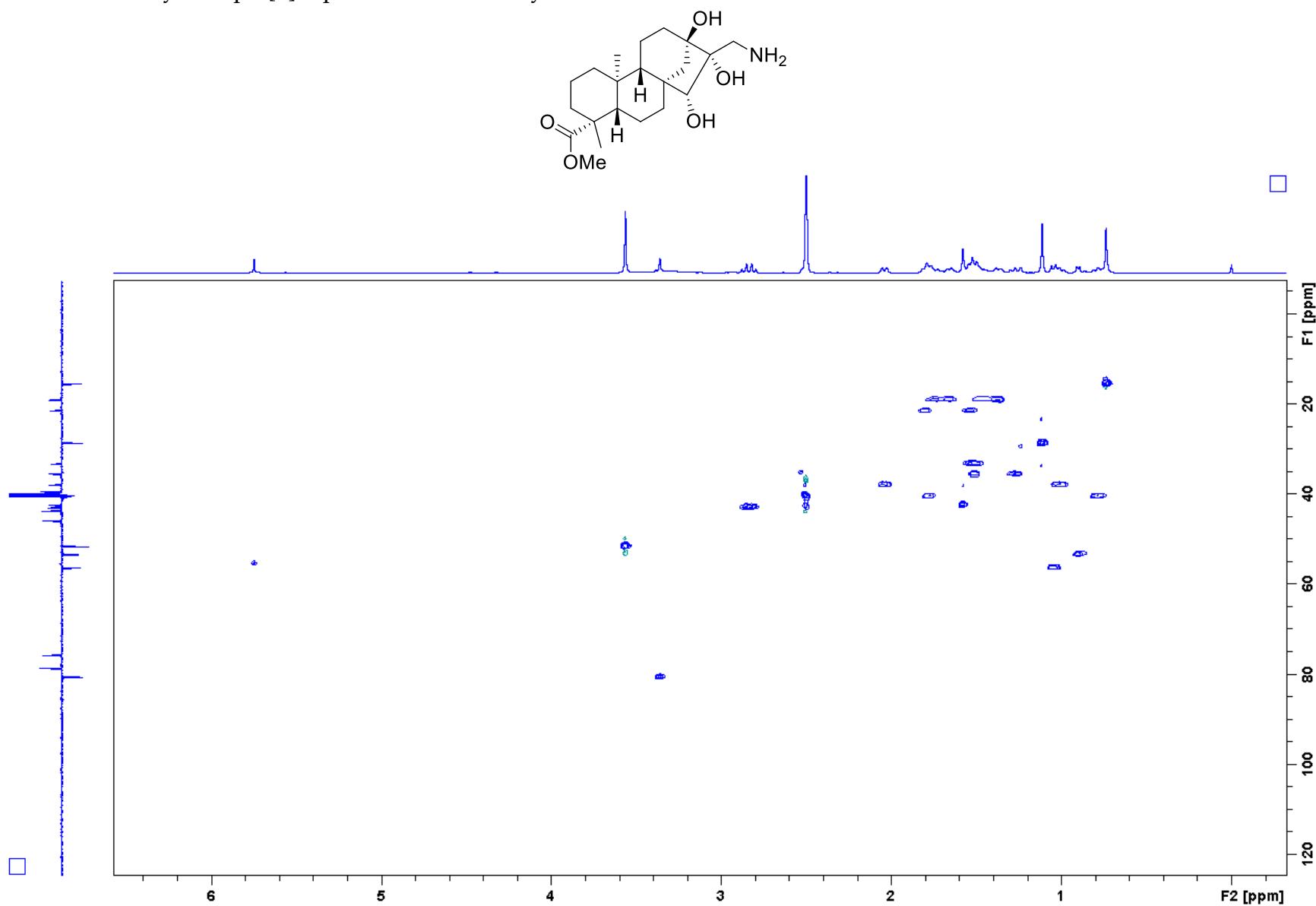
COSY of compound (*4R,6aR,7R,8R,9S,11bS*)-methyl 8-(aminomethyl)-7,8,9-trihydroxy-4,11b-dimethyltetradecahydro-6a,9-methanocyclohepta[a]naphthalene-4-carboxylate (**17**)



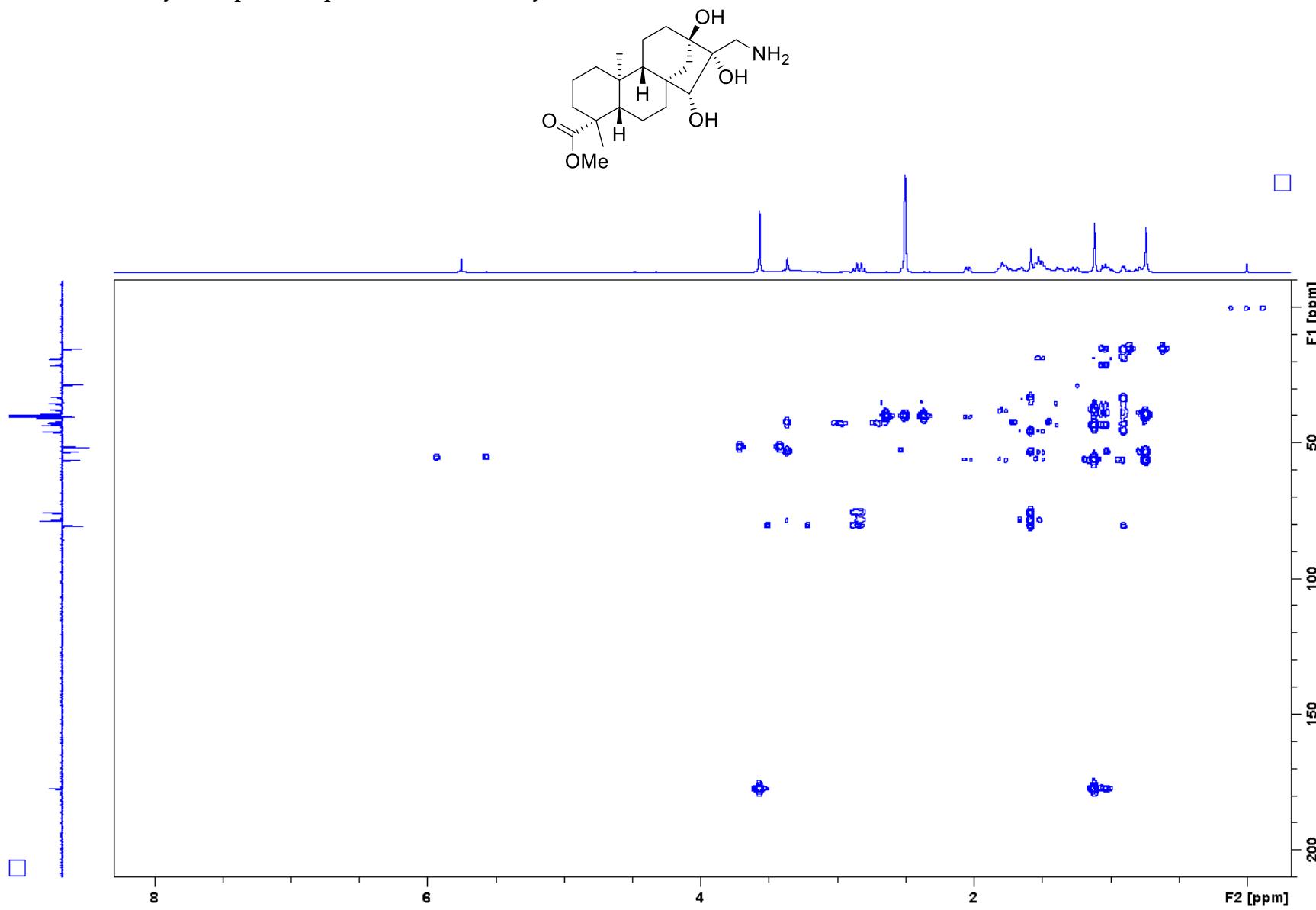
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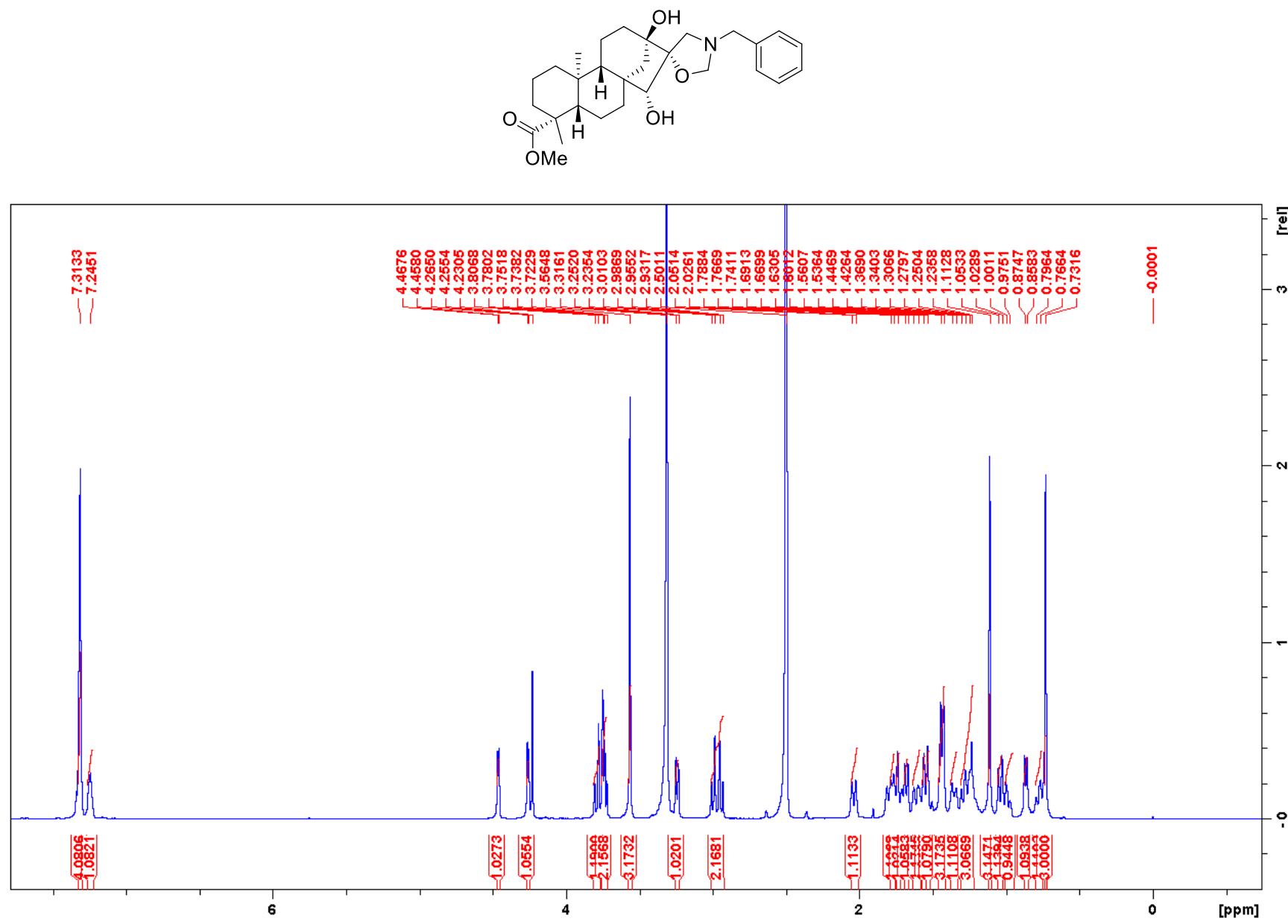
HSQC of compound (4*R*,6*aR*,7*R*,8*R*,9*S*,11*bS*)-methyl 8-(aminomethyl)-7,8,9-trihydroxy-4,11*b*-dimethyltetradecahydro-6*a*,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**17**)



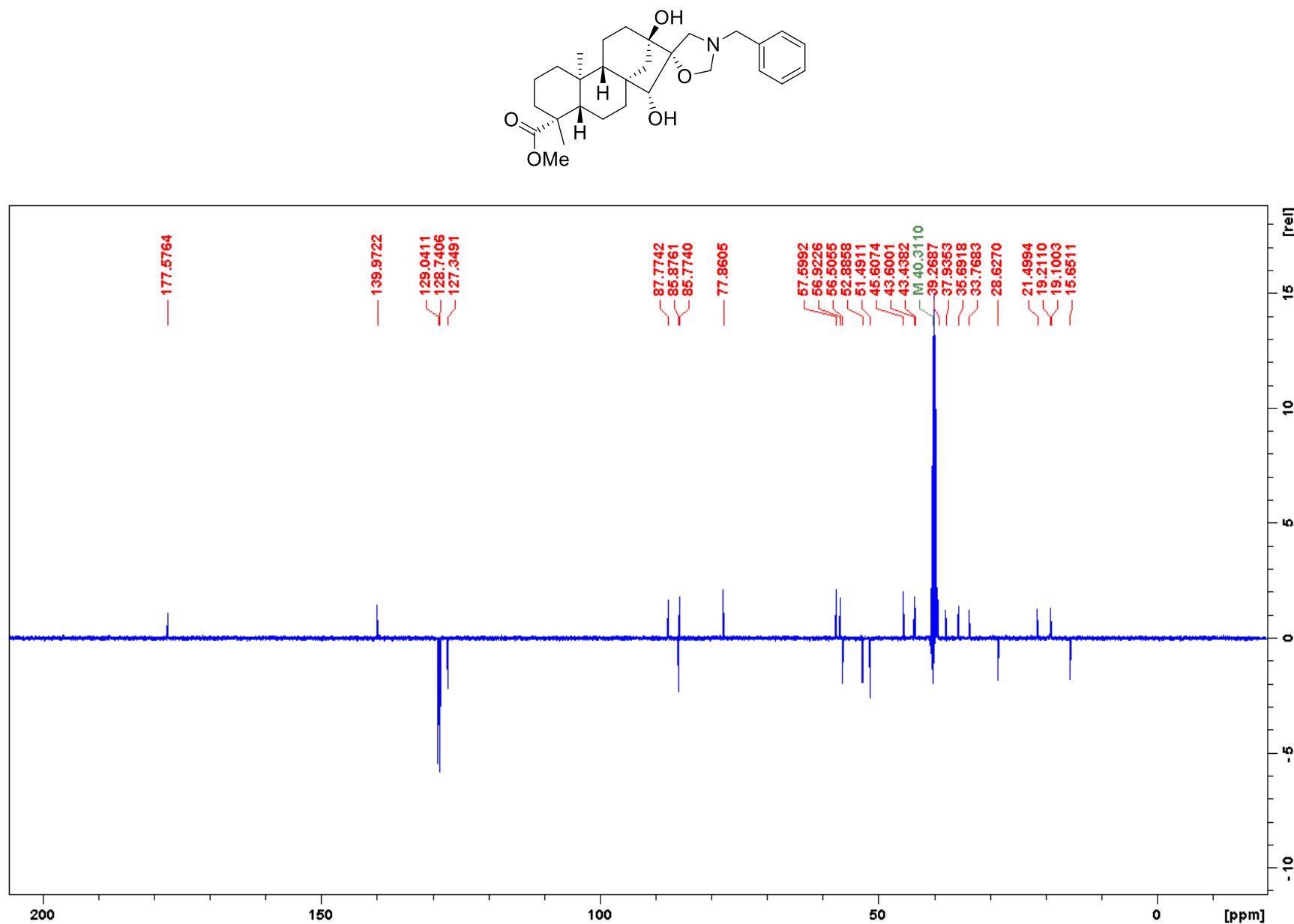
HMBC of compound (*4R,6aR,7R,8R,9S,11bS*)-methyl 8-(aminomethyl)-7,8,9-trihydroxy-4,11b-dimethyltetradecahydro-6a,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**17**)



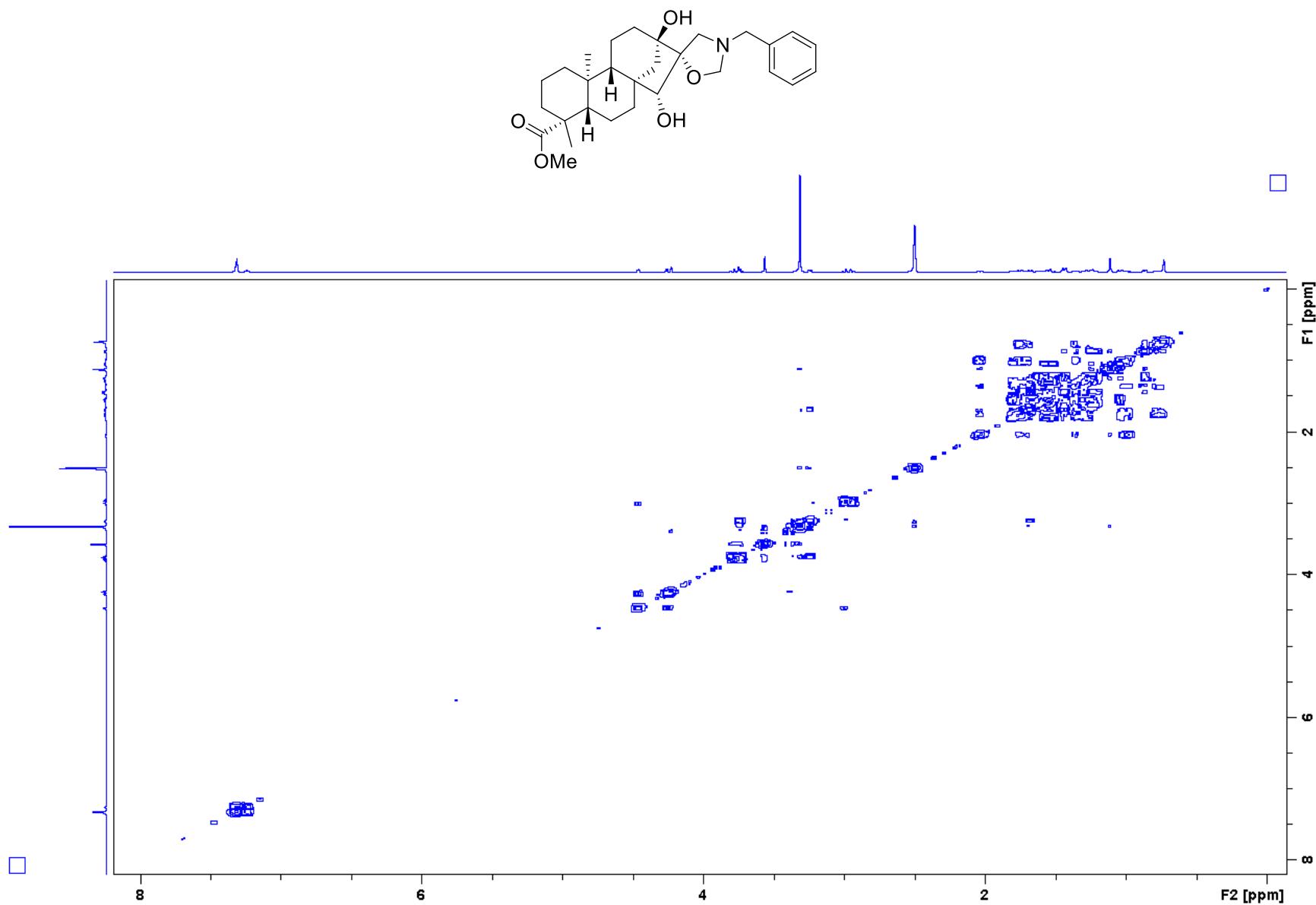
<sup>1</sup>H-NMR of compound (4*R*,5'*R*,6*a**R*,7*R*,9*S*,11*b**S*)-methyl 3'-benzyl-7,9-dihydroxy-4,11*b*-dimethyldodecahydro-1*H*-spiro[6*a*,9-methanocyclohepta[a]naphthalene-8,5'-oxazolidine]-4-carboxylate (**18**)



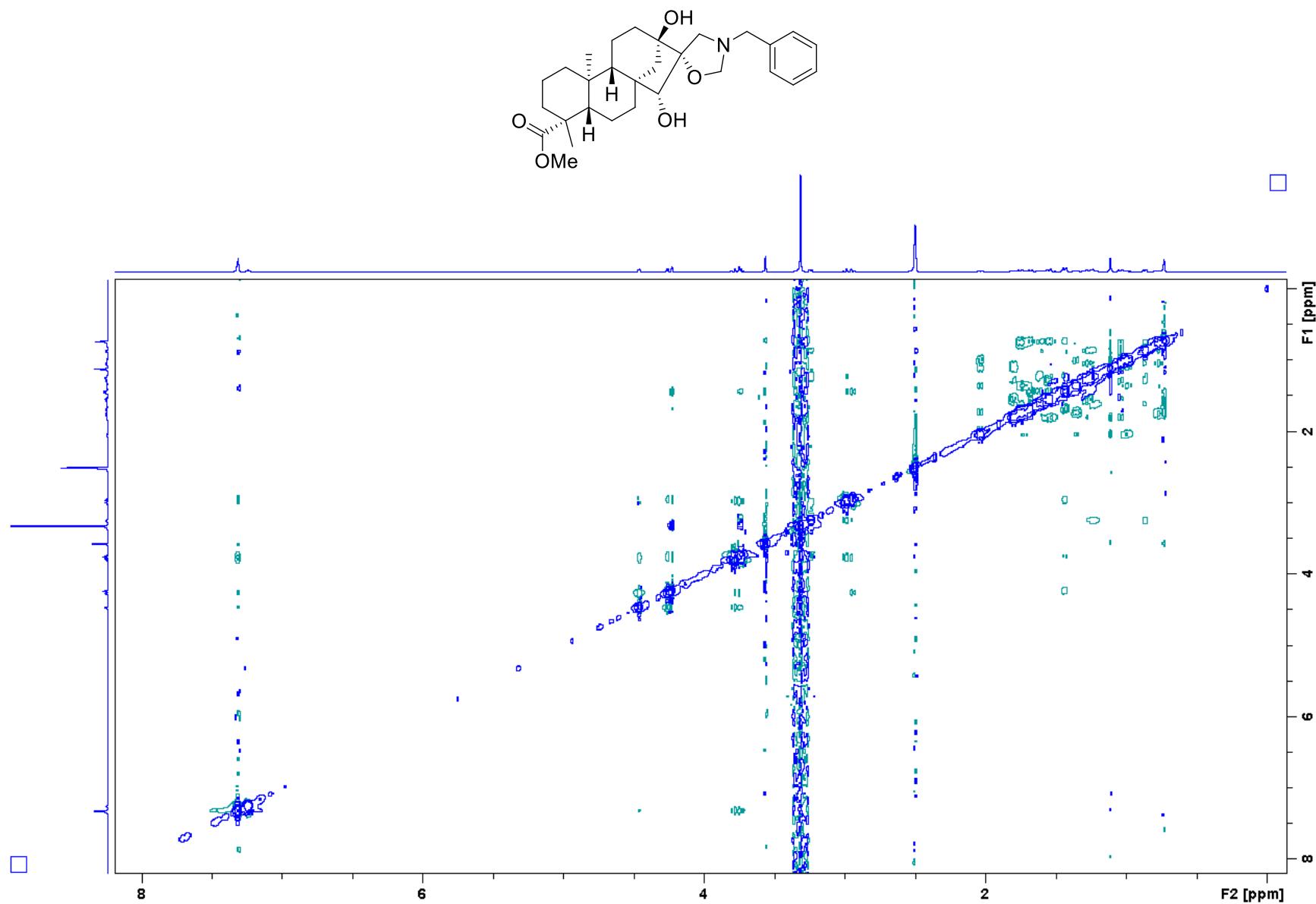
<sup>13</sup>C-NMR of compound (4*R*,5'*R*,6*aR*,7*R*,9*S*,11*bS*)-methyl 3'-benzyl-7,9-dihydroxy-4,11*b*-dimethyldodecahydro-1*H*-spiro[6*a*,9-methanocyclohepta[a]naphthalene-8,5'-oxazolidine]-4-carboxylate (**18**)



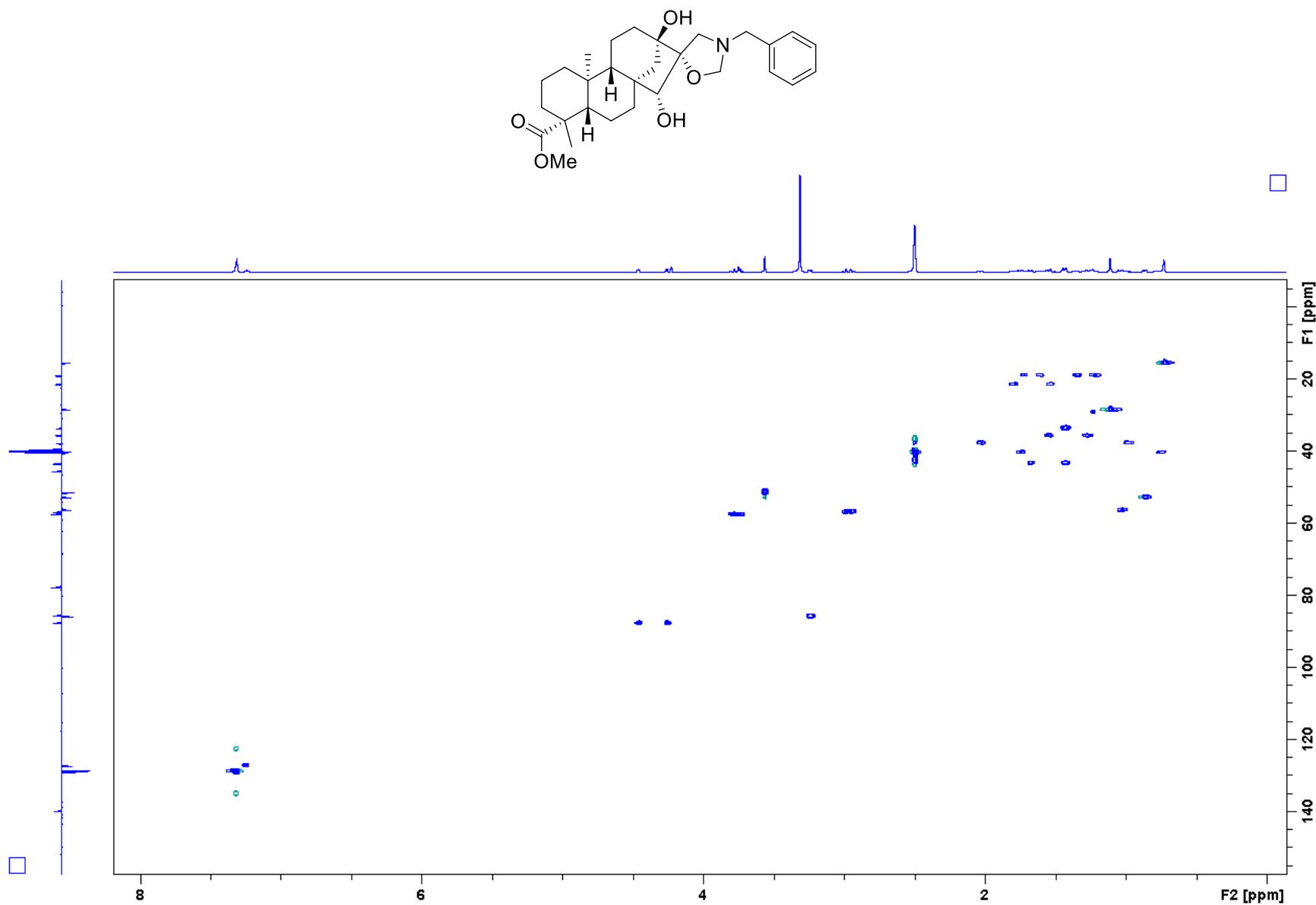
COSY of compound (*4R,5'R,6aR,7R,9S,11bS*)-methyl 3'-benzyl-7,9-dihydroxy-4,11b-dimethyldodecahydro-1*H*-spiro[6*a*,9-methanocyclohepta[a]naphthalene-8,5'-oxazolidine]-4-carboxylate (**18**)



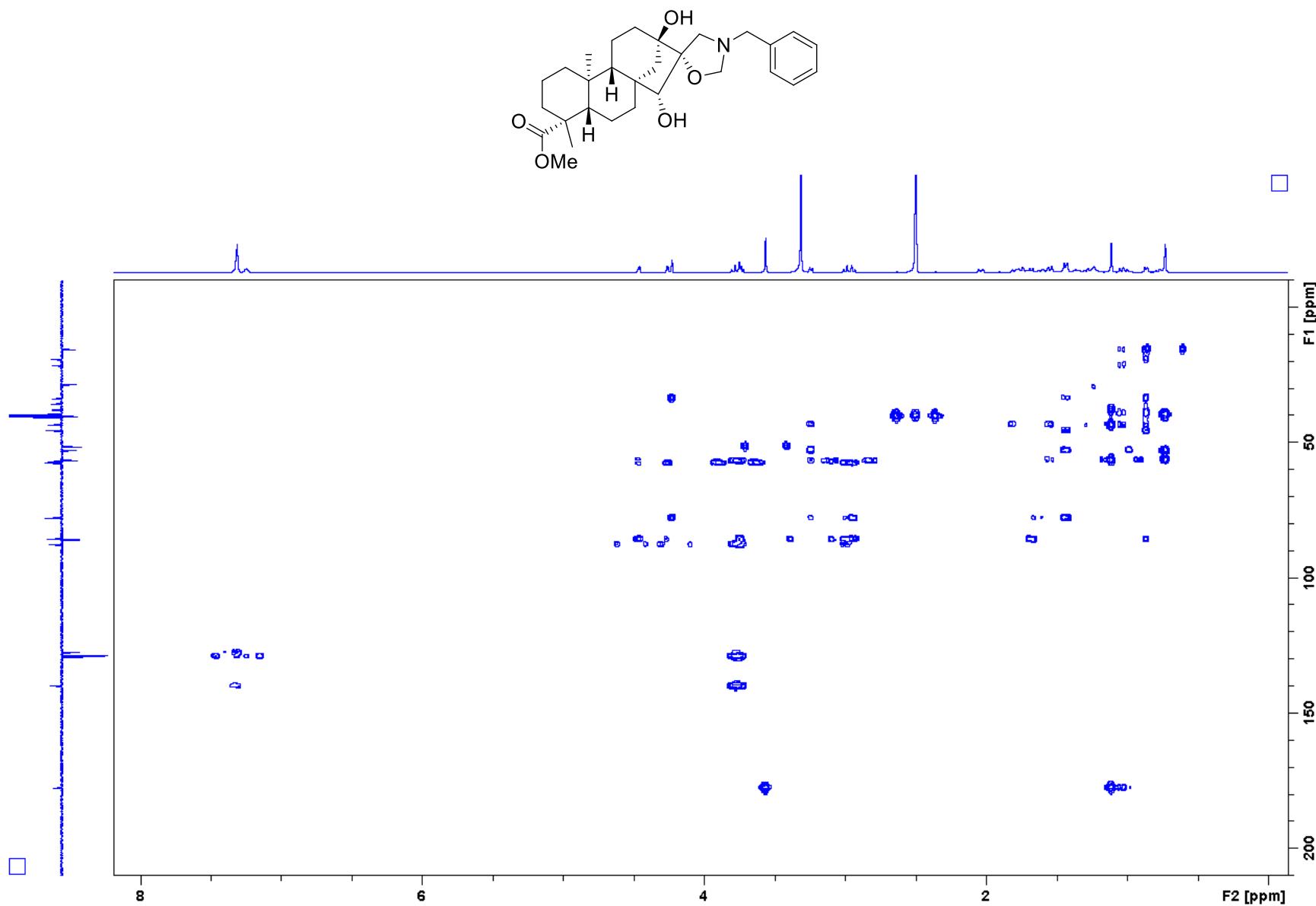
NOESY of compound (4*R*,5'*R*,6*a**R*,7*R*,9*S*,11*b**S*)-methyl 3'-benzyl-7,9-dihydroxy-4,11*b*-dimethyldodecahydro-1*H*-spiro[6*a*,9-methanocyclohepta[a]naphthalene-8,5'-oxazolidine]-4-carboxylate (**18**)



HSQC of compound (4*R*,5'*R*,6*a**R*,7*R*,9*S*,11*b**S*)-methyl 3'-benzyl-7,9-dihydroxy-4,11*b*-dimethyldodecahydro-1*H*-spiro[6*a*,9-methanocyclohepta[a]naphthalene-8,5'-oxazolidine]-4-carboxylate (**18**)



HMBC of compound (*4R,5'R,6aR,7R,9S,11bS*)-methyl 3'-benzyl-7,9-dihydroxy-4,11b-dimethyldodecahydro-1*H*-spiro[6a,9-methanocyclohepta[a]naphthalene-8,5'-oxazolidine]-4-carboxylate (**18**)

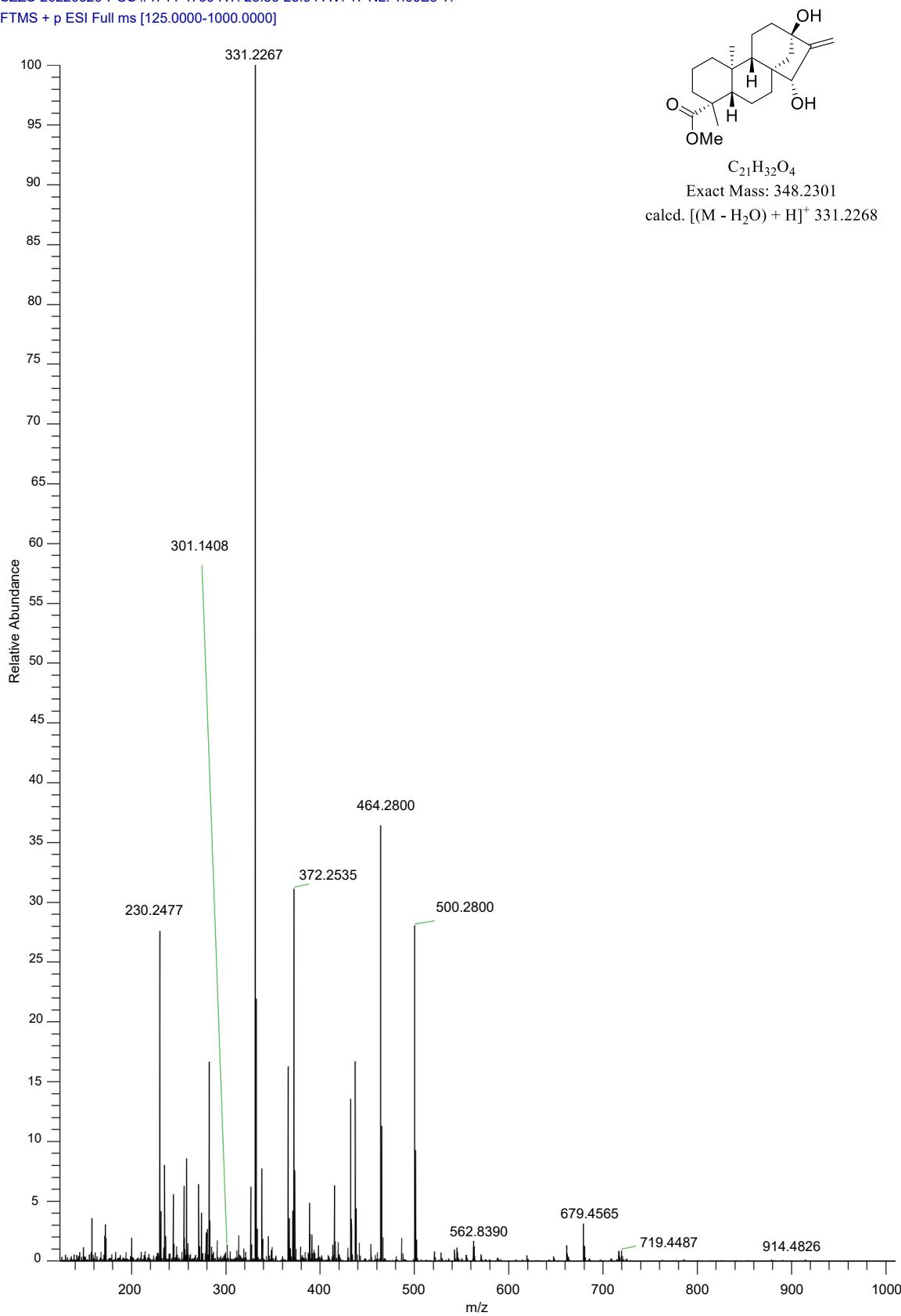


HRMS of compound (*4R,6aR,7R,9S,11bS*)-methyl 7,9-dihydroxy-4,11b-dimethyl-8-methylenetetradecahydro-6a,9-methanocyclohepta[a]naphthalene-4-carboxylate (**3**)

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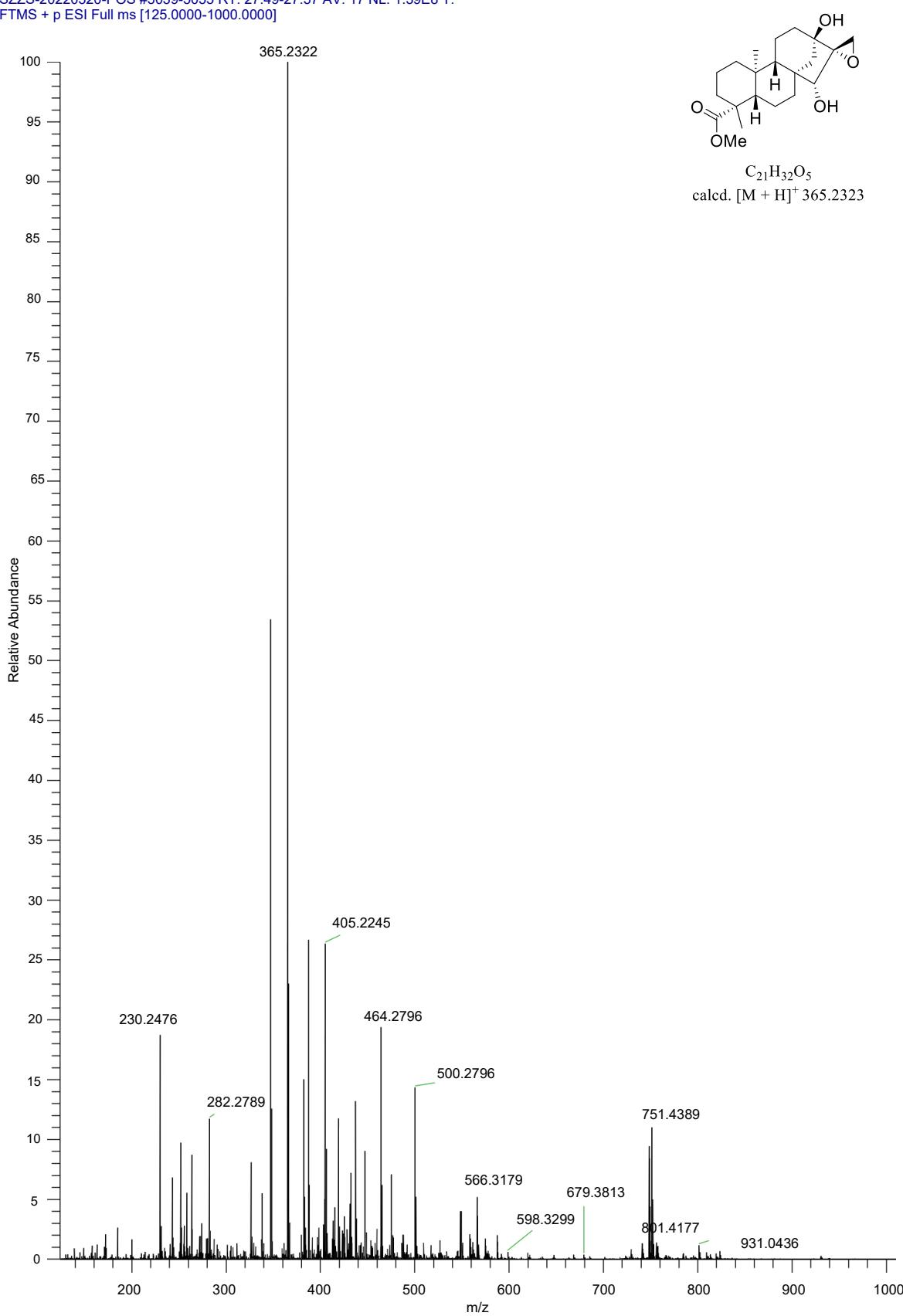
ETMS ± p ESI Efull ms [125.0000-1000.0000]



HRMS of compound (2'*R*,4*R*,6*aR*,7*R*,9*S*,11*bS*)-methyl 7,9-dihydroxy-4,11*b*-dimethyldodecahydro-1*H*-spiro[6*a*,9-methanocyclohepta[a]naphthalene-8,2'-oxirane]-4-carboxylate (**4b**)

D:\DATA...\SZZS\SZZS-20220520-POS

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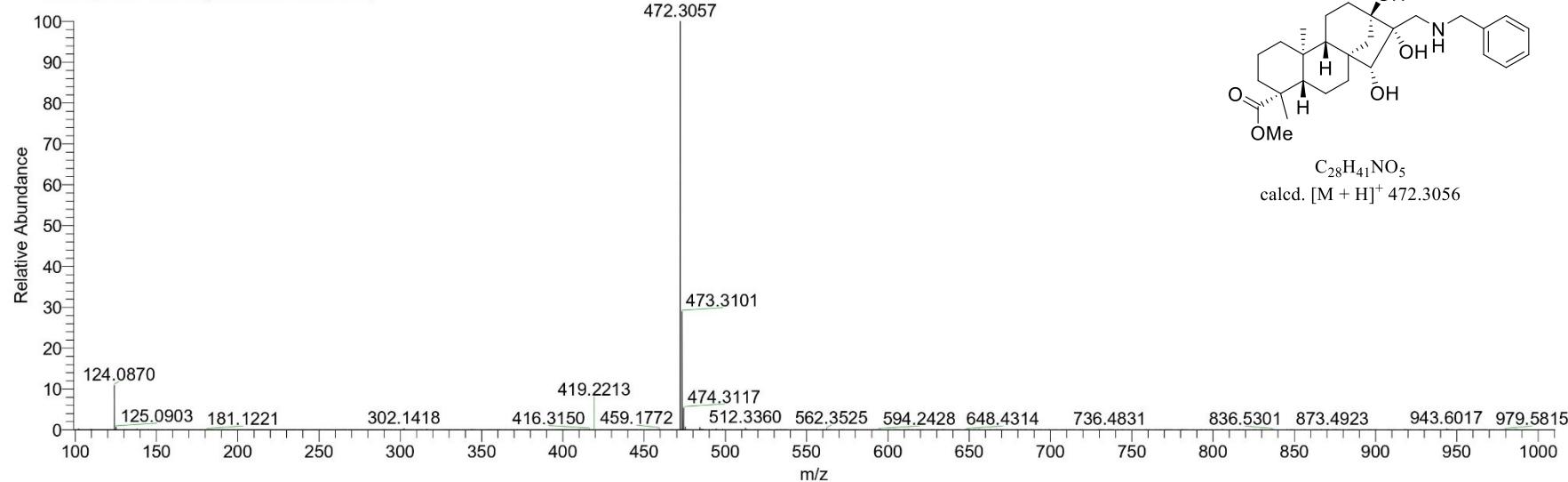


HRMS of compound (*4R,6aR,7R,8R,9S,11bS*)-methyl 8-((benzylamino)methyl)-7,8,9-trihydroxy-4,11b-dimethyltetradecahydro-6a,9-methanocyclohepta[a]naphthalene-4-carboxylate (**5**)

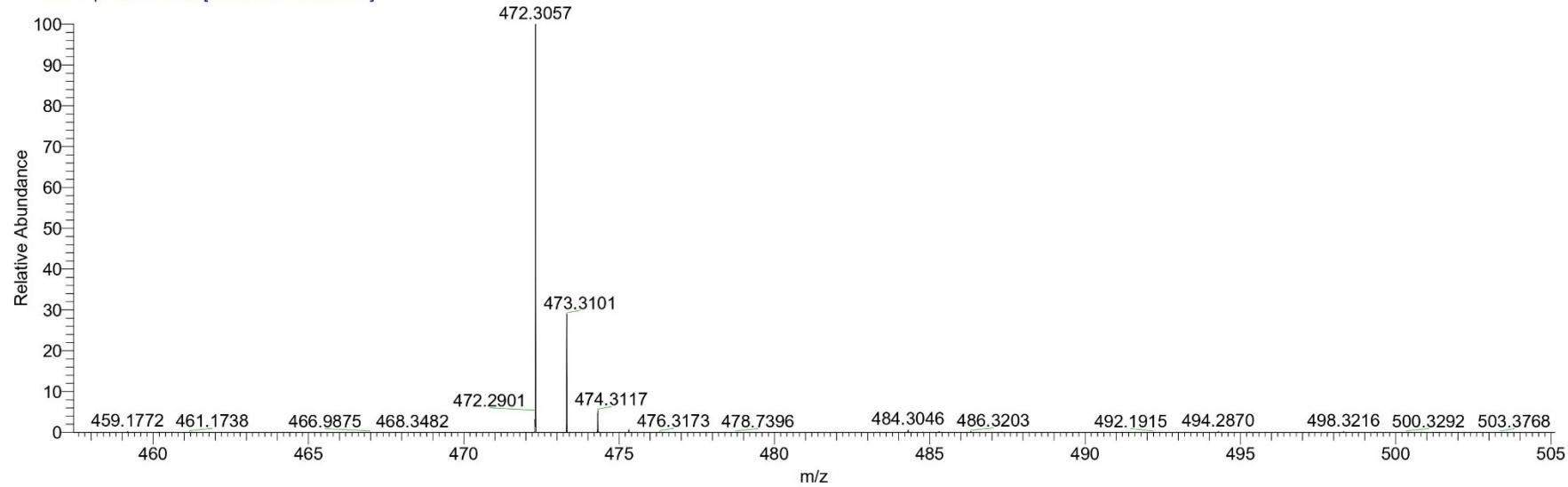
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07/05/21 07:35:29

SZZS20210705 #15166-15334 RT: 48.66-49.19 AV: 84 NL: 2.01E9  
T: FTMS + p ESI Full ms [100.0000-1000.0000]



SZZS20210705 #15166-15334 RT: 48.66-49.19 AV: 84 NL: 2.0E9  
T: FTMS + p ESI Full ms [100.0000-1000.0000]

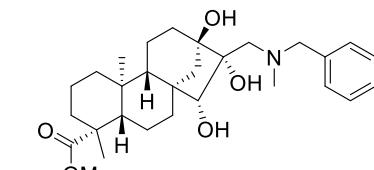
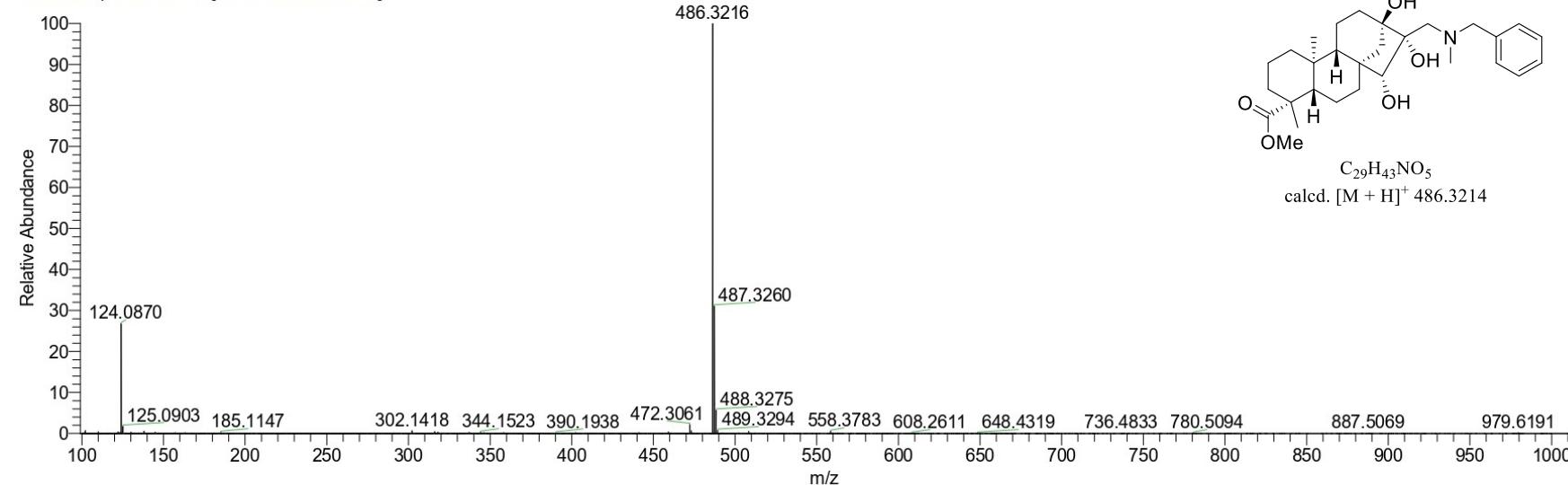


HRMS of compound (4*R*,6*aR*,7*R*,8*R*,9*S*,11*bS*)-methyl 8-((benzyl(methyl)amino)methyl)-7,8,9-trihydroxy-4,11*b*-dimethyltetradecahydro-6*a*,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**6**)

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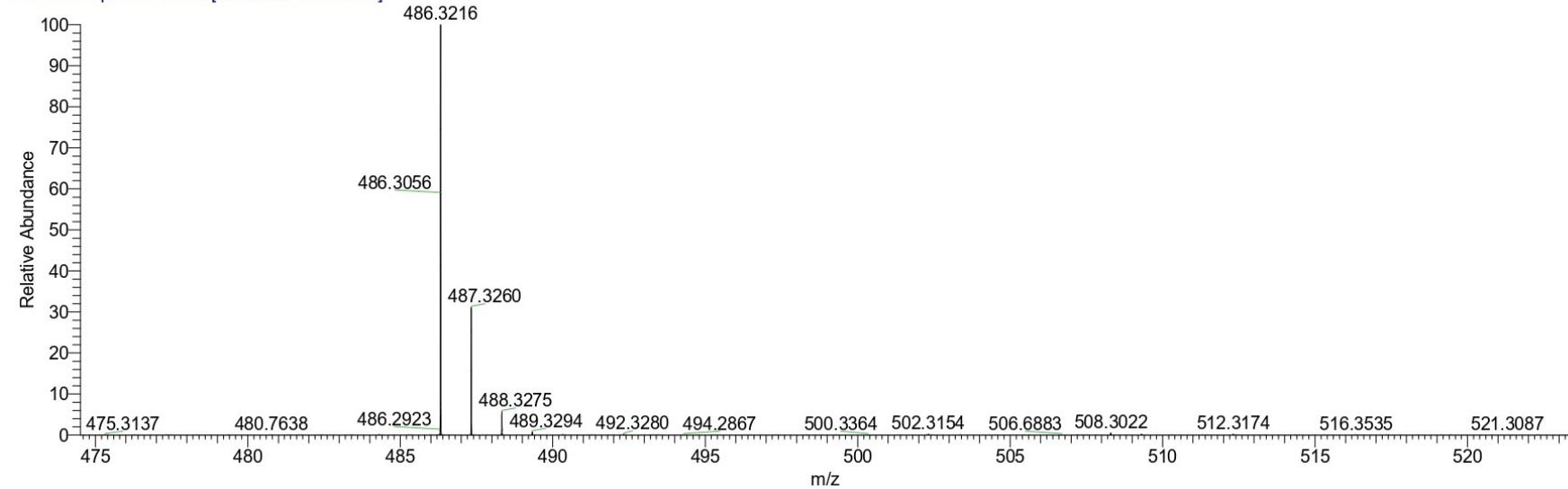
07/05/21 07:35:29

SZZS20210705 #15551-15731 RT: 49.89-50.47 AV: 91 NL: 9.57E8  
T: FTMS + p ESI Full ms [100.0000-1000.0000]



$C_{29}H_{43}NO_5$   
calcd.  $[M + H]^+$  486.3214

SZZS20210705 #15551-15731 RT: 49.89-50.47 AV: 91 NL: 9.57E8  
T: FTMS + p ESI Full ms [100.0000-1000.0000]

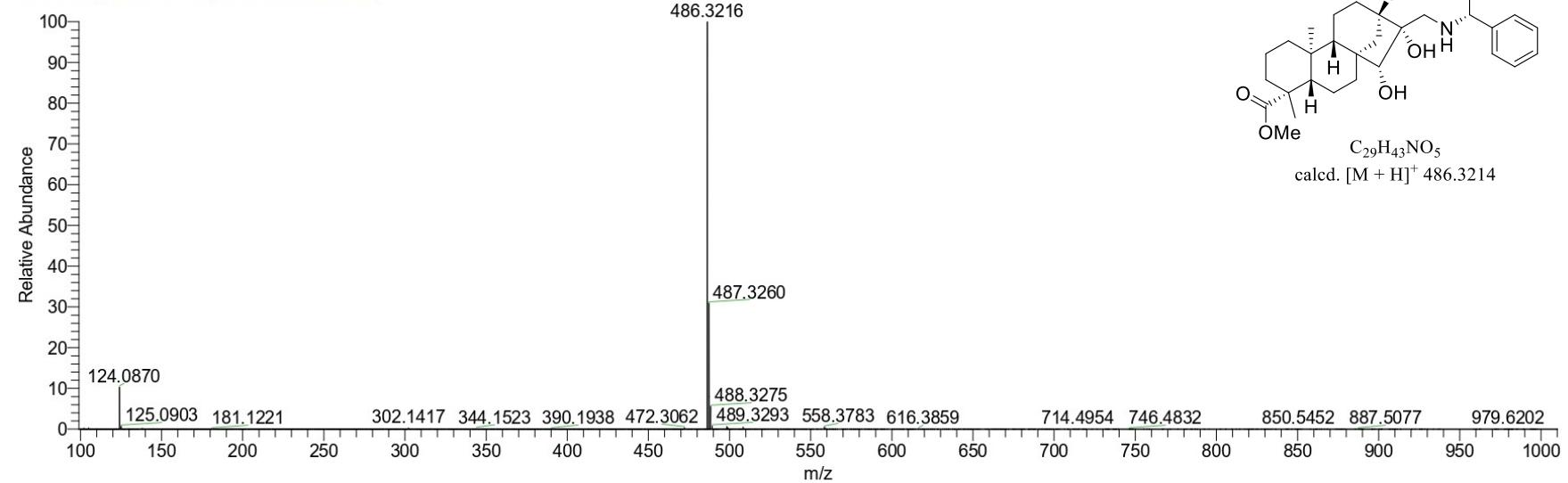


HRMS of compound (4*R*,6*aR*,7*R*,8*R*,9*S*,11*bS*)-methyl 7,8,9-trihydroxy-4,11*b*-dimethyl-8-(((*R*)-1-phenylethyl)amino)methyl)tetradecahydro-6*a*,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**7**)

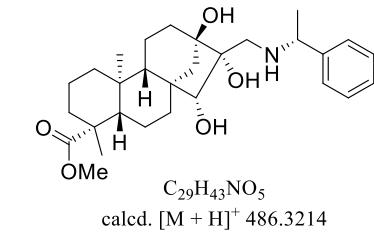
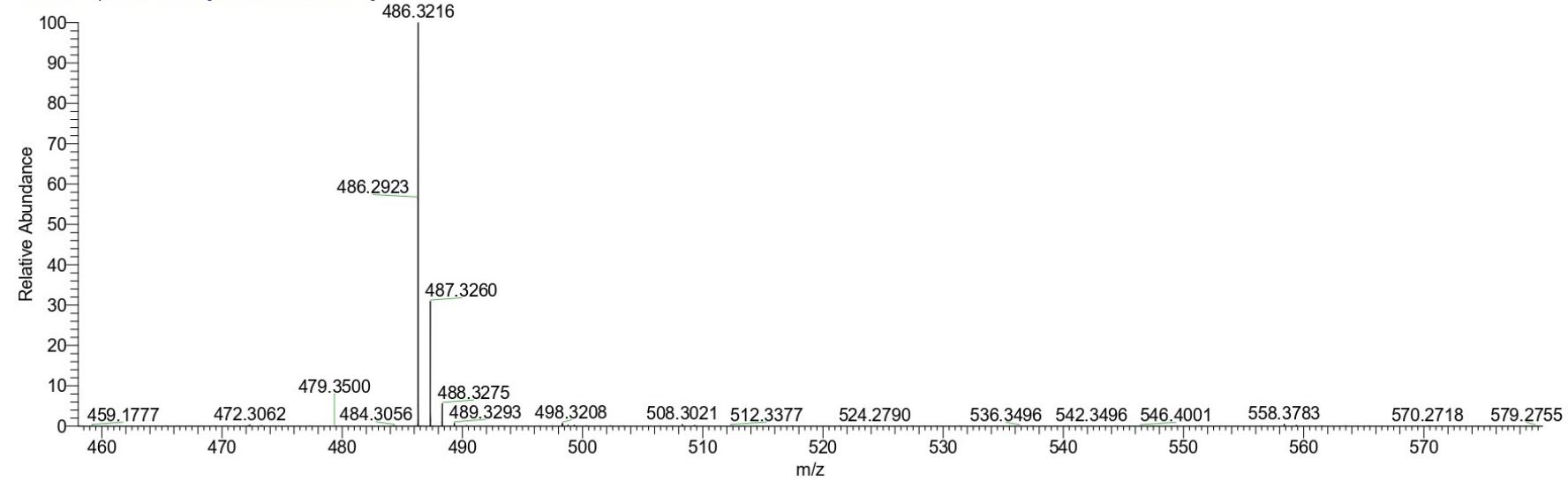
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07/05/21 07:35:29

SSZS20210705 #15935-16104 RT: 51.13-51.66 AV: 85 NL: 2.03E9  
T: FTMS + p ESI Full ms [100.0000-1000.0000]



SSZS20210705 #15935-16104 RT: 51.13-51.66 AV: 85 NL: 2.03E9  
T: FTMS + p ESI Full ms [100.0000-1000.0000]

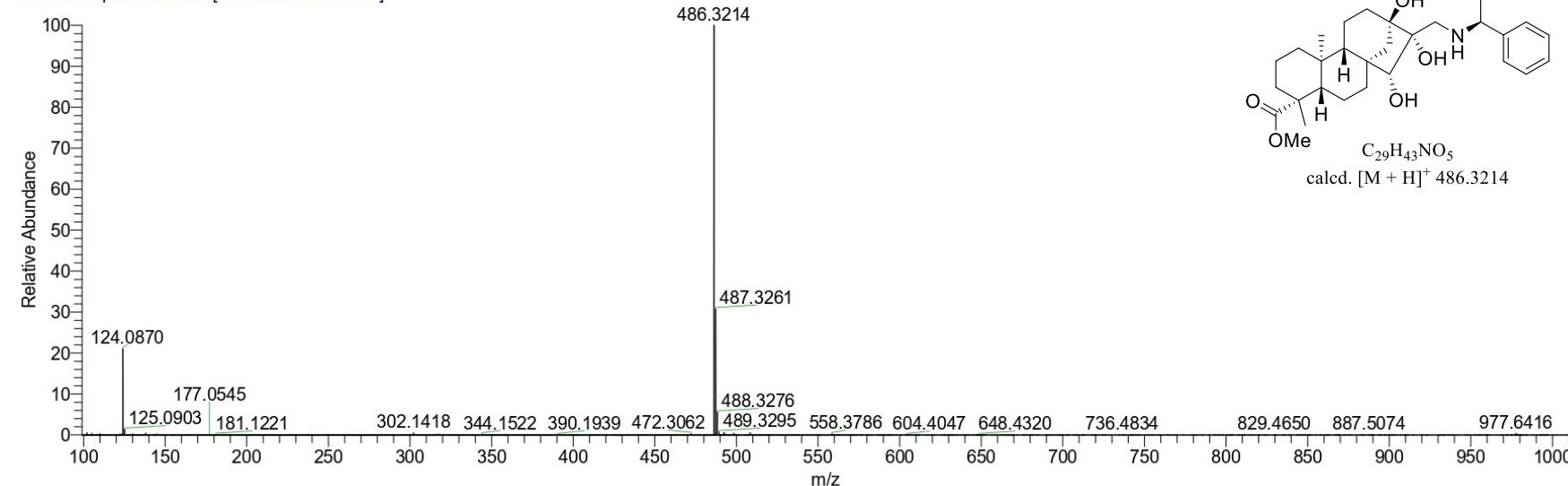


HRMS of compound (4*R*,6*aR*,7*R*,8*R*,9*S*,11*bS*)-methyl 7,8,9-trihydroxy-4,11*b*-dimethyl-8-(((*S*)-1-phenylethyl)amino)methyl)tetradecahydro-6*a*,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**8**)

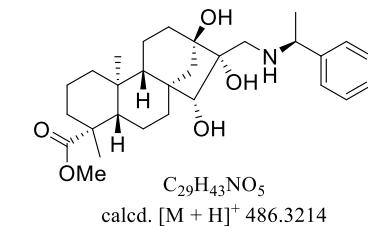
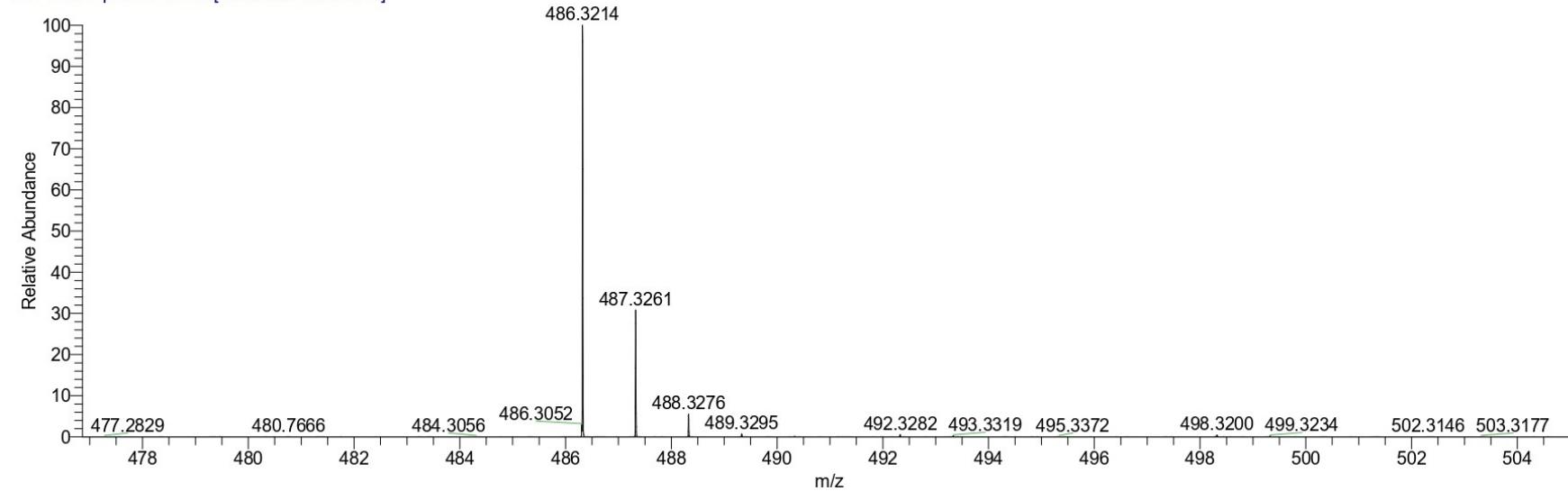
D:\DATA\...\20210705\SSZS20210705

07/05/21 07:35:29

SSZS20210705 #16308-16527 RT: 52.32-53.02 AV: 110 NL: 1.18E9  
T: FTMS + p ESI Full ms [100.0000-1000.0000]



SSZS20210705 #16308-16527 RT: 52.32-53.02 AV: 110 NL: 1.18E9  
T: FTMS + p ESI Full ms [100.0000-1000.0000]

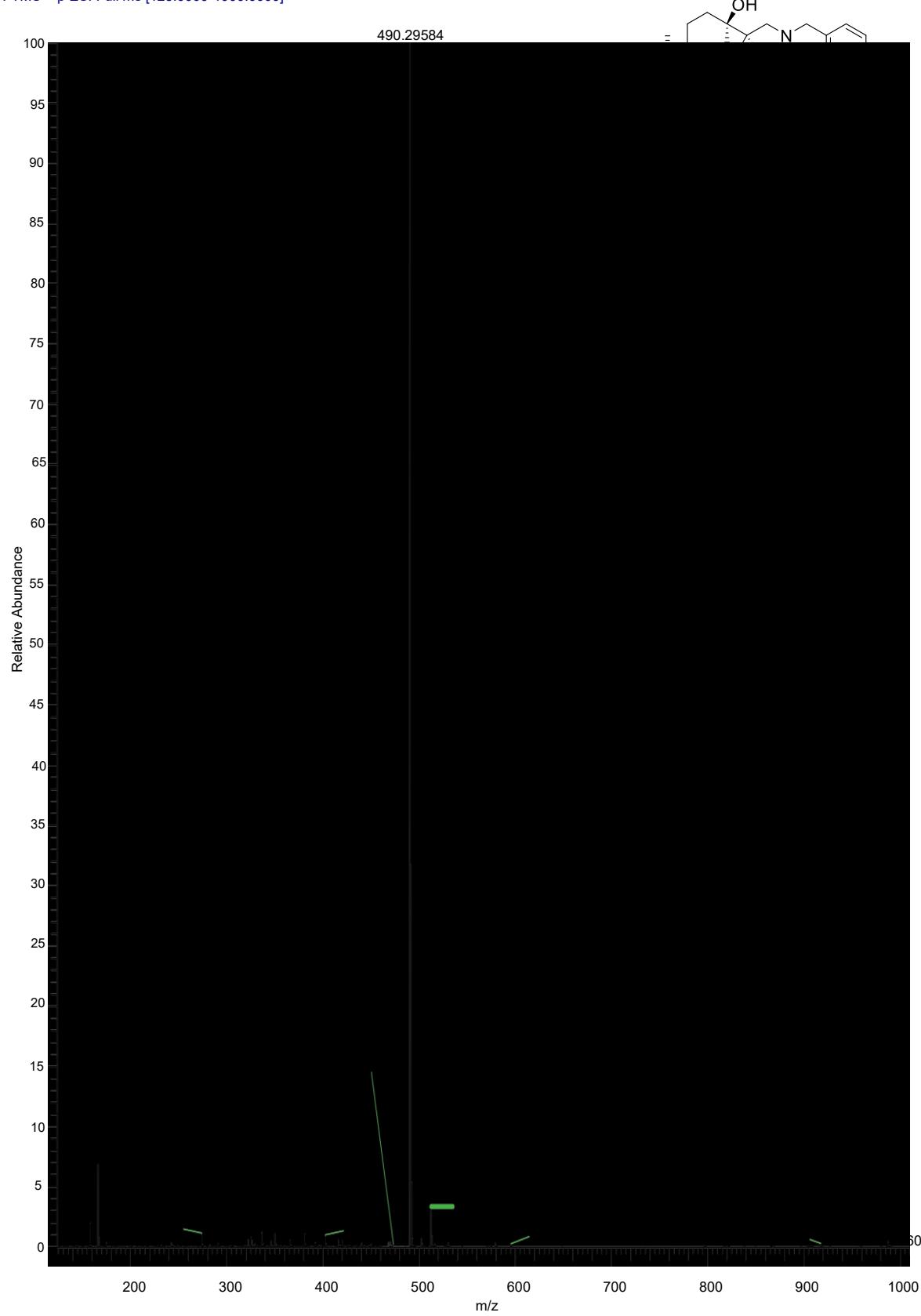


HRMS of compound (*4R,6aR,7R,8R,9S,11bS*)-methyl 8-(((4-fluorobenzyl)amino)methyl)-7,8,9-trihydroxy-4,11b-dimethyltetradecahydro-6a,9-methanocyclohepta[a]naphthalene-4-carboxylate (9)

D:\DATA...\20211208\SZZS-20211208-POS

12/08/21 11:53:26

SZZS-20211208-POS #8756-8763 RT: 47.57-47.60 AV: 8 NL: 1.80E9T:  
FTMS + p ESI Full ms [125.0000-1000.0000]

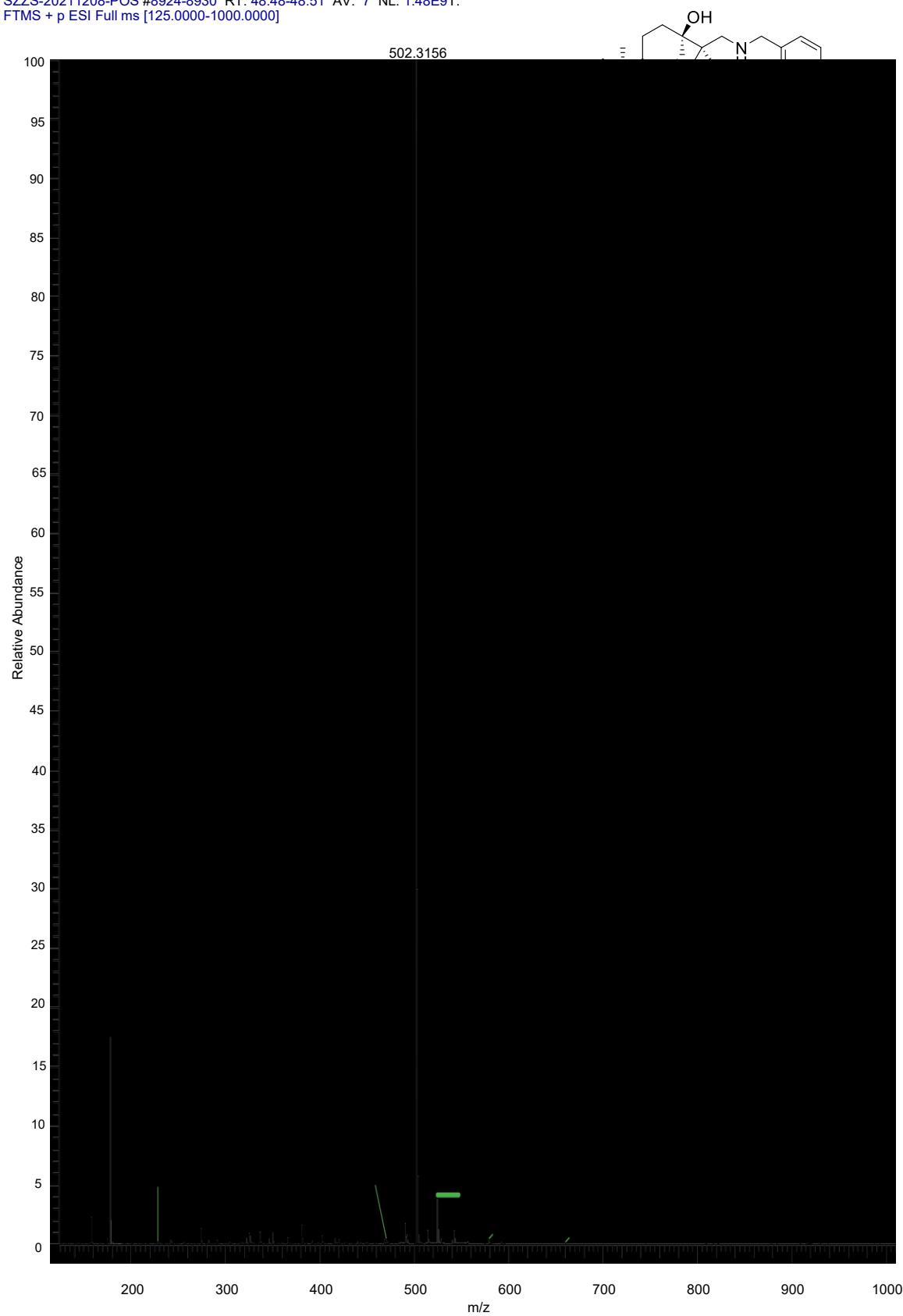


HRMS of compound (*4R,6aR,7R,8R,9S,11bS*)-methyl 7,8,9-trihydroxy-8-(((4-methoxybenzyl)amino)methyl)-4,11b-dimethyltetradecahydro-6a,9-methanocyclohepta[a]naphthalene-4-carboxylate (**10**)

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12/08/21 11:53:26

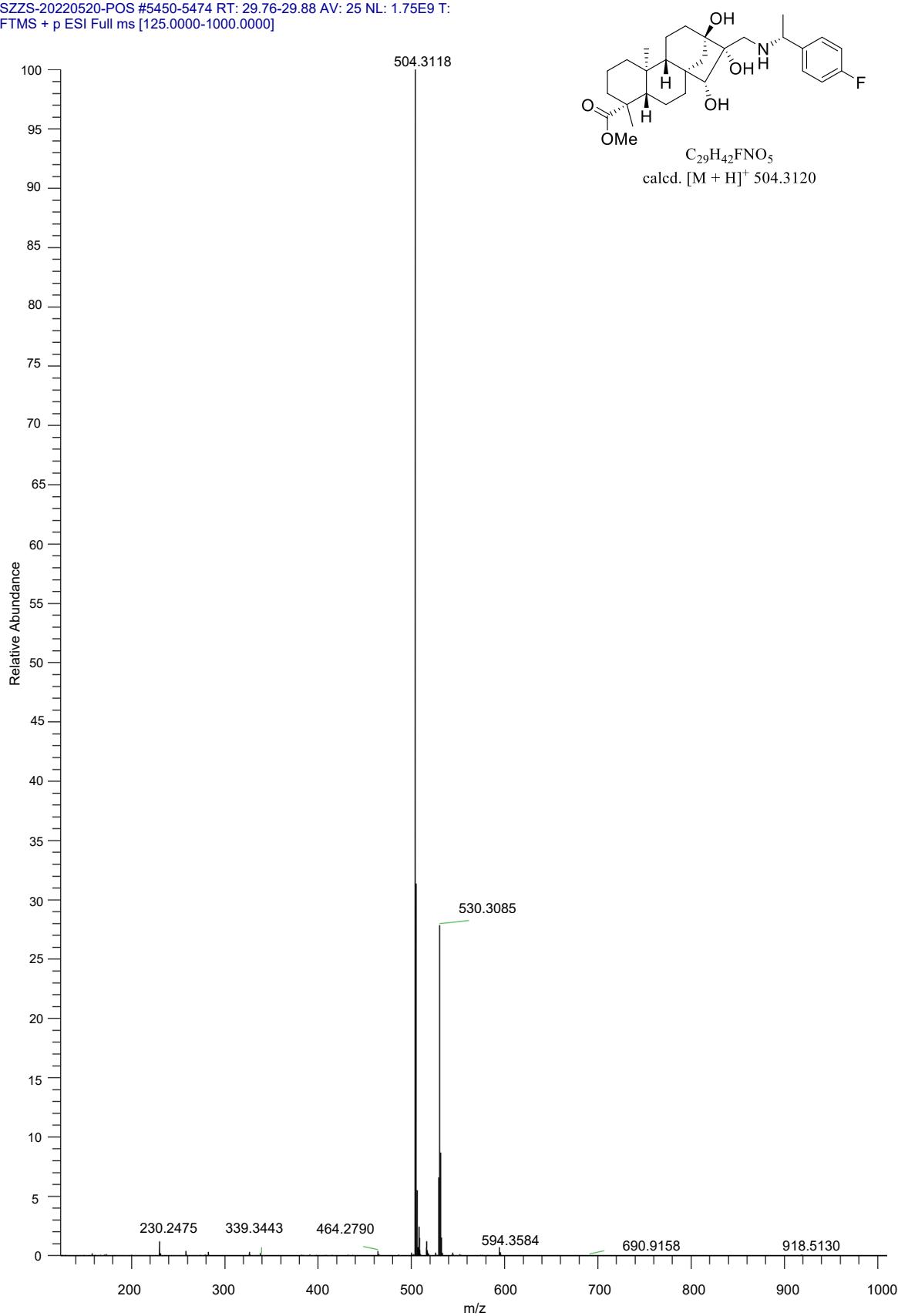
SZZS-20211208-POS #8924-8930 RT: 48.48-48.51 AV: 7 NL: 1.48E9T:  
FTMS + p ESI Full ms [125.0000-1000.0000]



HRMS of compound (*4R,4aS,6aR,7R,8R,11aS,11bS*)-methyl 8-(((*(R)*-1-(4-fluorophenyl)ethyl)amino)methyl)-7,8,9-trihydroxy-4,11b-dimethyltetradecahydro-6a,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**11**)

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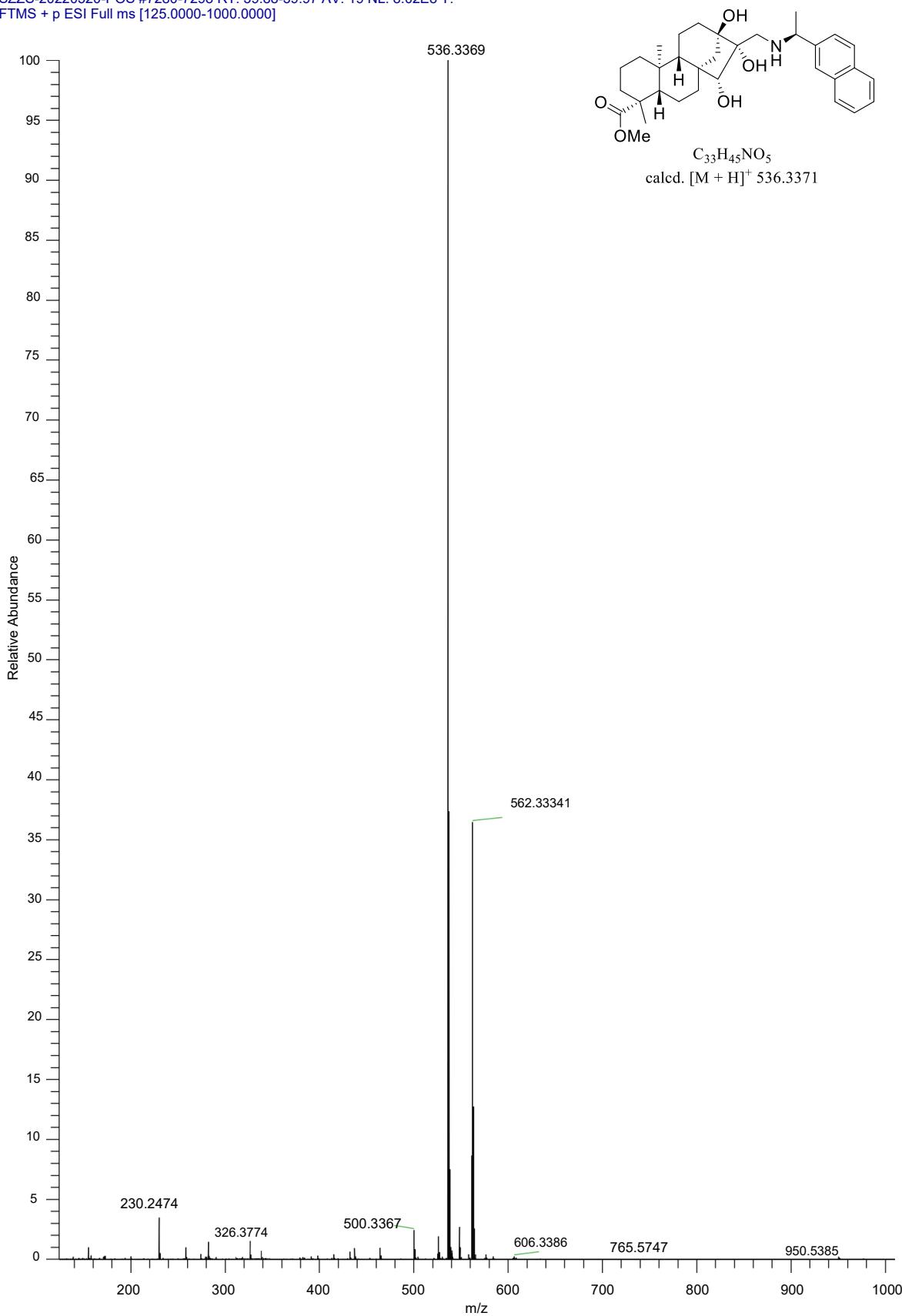
SZZS-20220520-POS #5450-5474 RT: 29.76-29.88 AV: 25 NL: 1.75E9 T:  
FTMS + p ESI Full ms [125.0000-1000.0000]



HRMS of compound (*4R,6aR,7R,8R,9S,11bS*)-methyl 7,8,9-trihydroxy-4,11b-dimethyl-8-(((*R*)-1-(naphthalen-2-yl)ethyl)amino)methyl)tetradecahydro-6a,9-methanocyclohepta[a]naphthalene-4-carboxylate (**12**)

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SZZS-20220520-POS #7280-7298 RT: 39.88-39.97 AV: 19 NL: 8.02E8 T:  
FTMS + p ESI Full ms [125.0000-1000.0000]

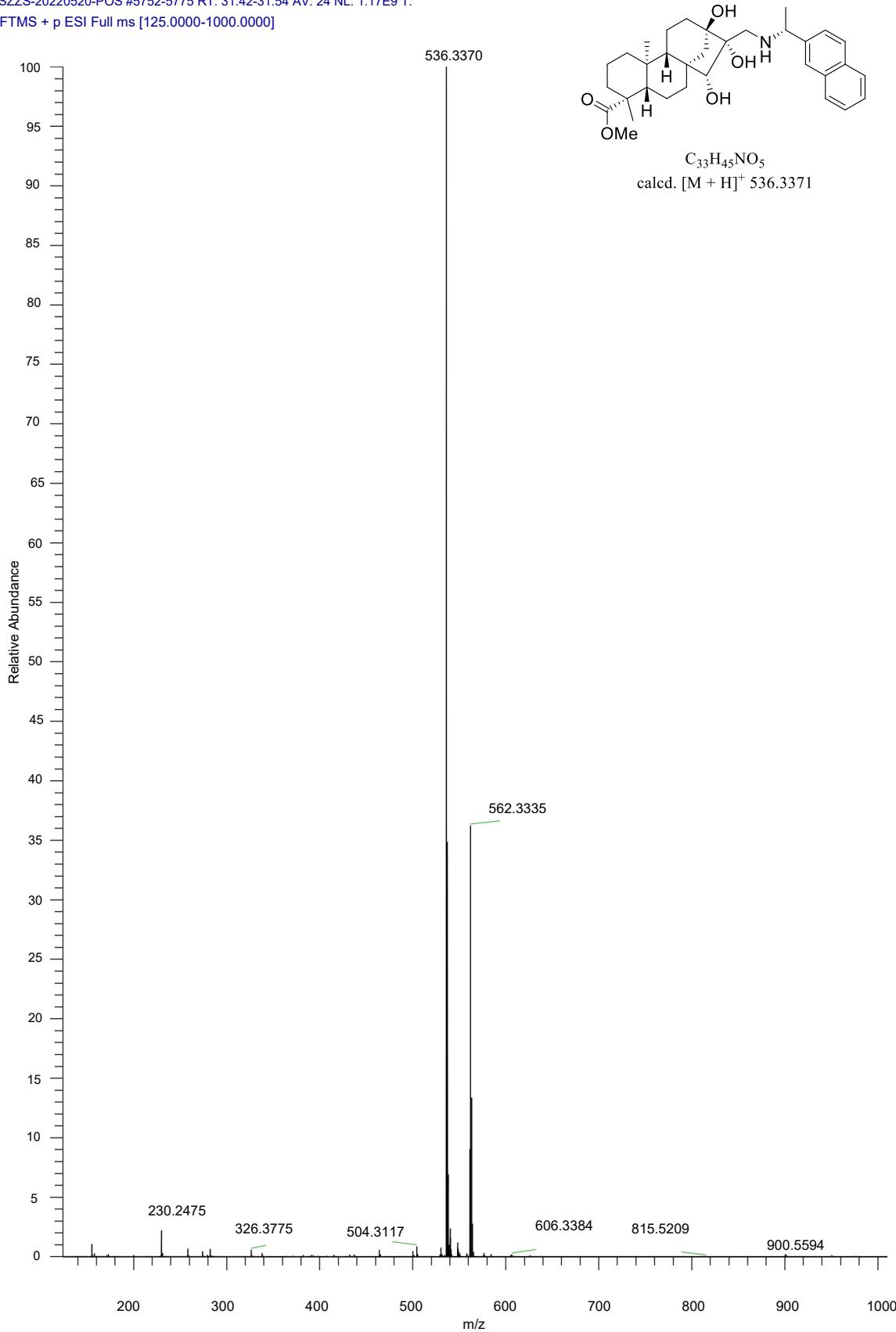


HRMS of compound (*4R,6aR,7R,8R,9S,11bS*)-methyl 7,8,9-trihydroxy-4,11b-dimethyl-8-(((*S*)-1-(naphthalen-2-yl)ethyl)amino)methyl)tetradecahydro-6a,9-methanocyclohepta[a]naphthalene-4-carboxylate (**13**)

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SZZS-20220520-POS #5752-5775 RT: 31.42-31.54 AV: 24 NL: 1.17E9 T:

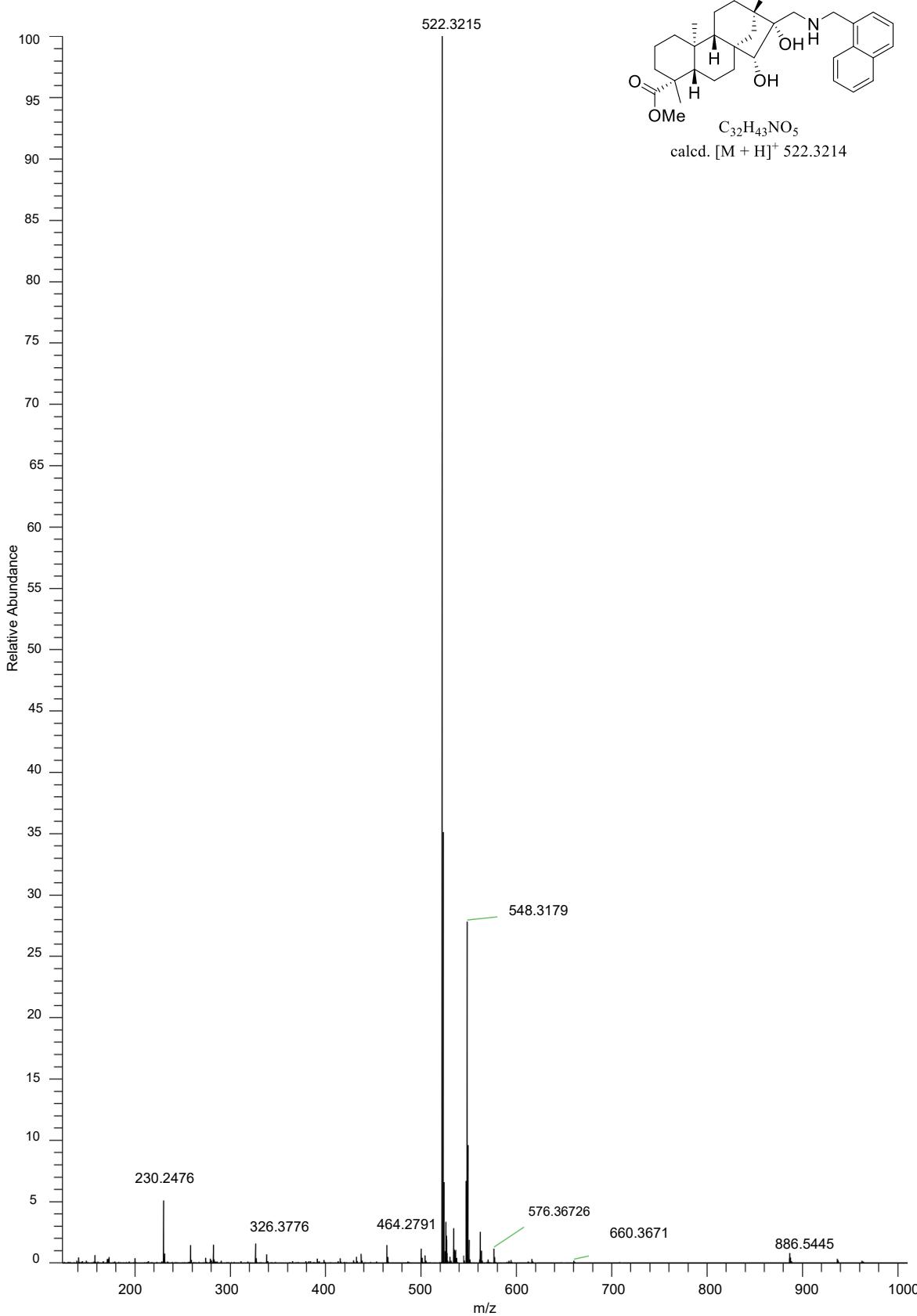
FTMS + p ESI Full ms [125.0000-1000.0000]



HRMS of compound (*4R,6aR,7R,8R,9S,11bS*)-methyl 7,8,9-trihydroxy-4,11b-dimethyl-8-((naphthalen-1-ylmethyl)amino)methyl)tetradecahydro-6a,9-methanocyclohepta[a]naphthalene-4-carboxylate (**14**)

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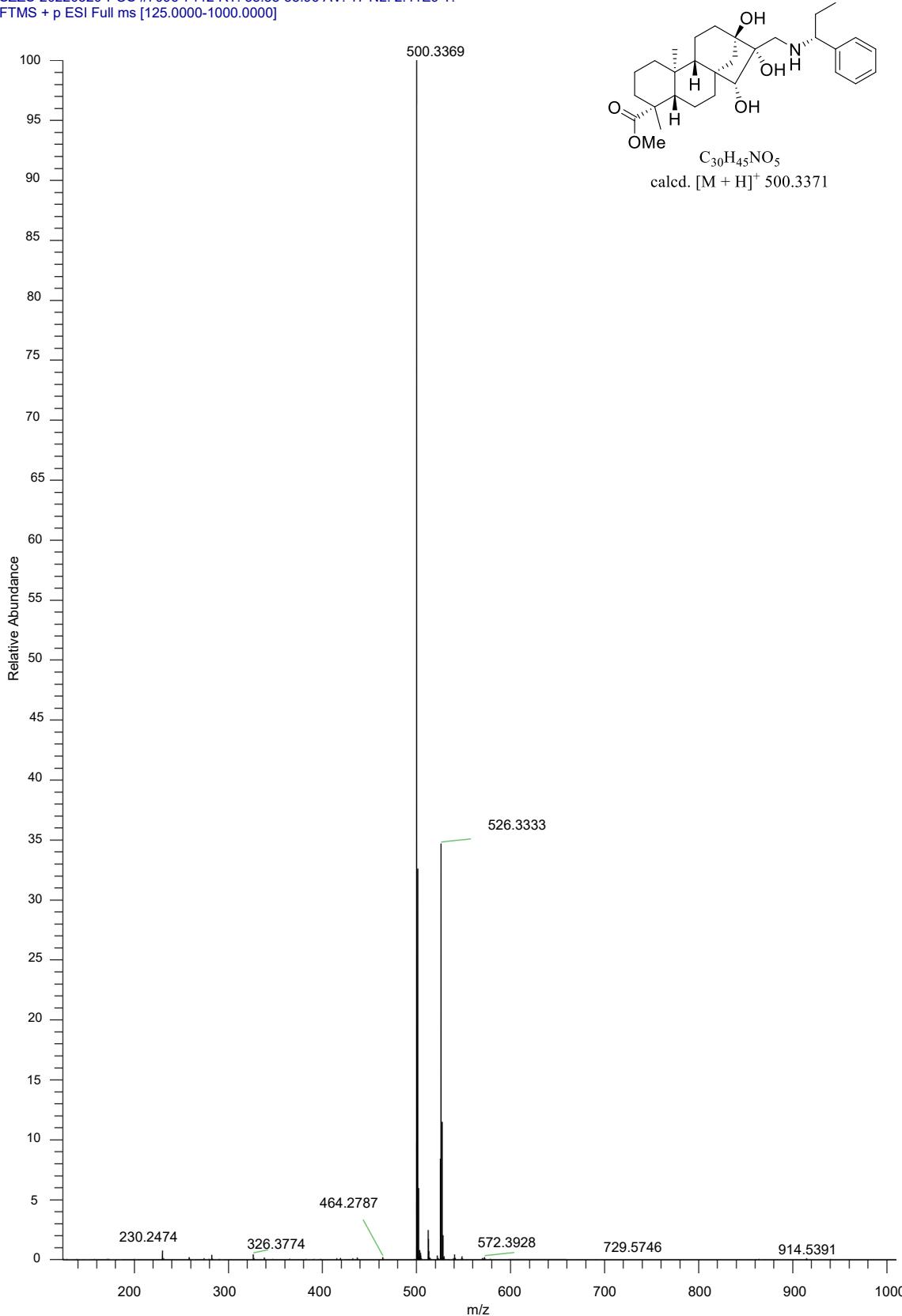
SZZS-20220520-POS #5994-6019 RT: 32.75-32.88 AV: 26 NL: 5.42E8 T:  
FTMS + p ESI Full ms [125.0000-1000.0000]



HRMS of compound (*4R,6aR,7R,8R,9S,11bS*)-methyl 7,8,9-trihydroxy-4,11b-dimethyl-8-(((*R*)-1-phenylpropyl)amino)methyl)tetradecahydro-6a,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**15**)

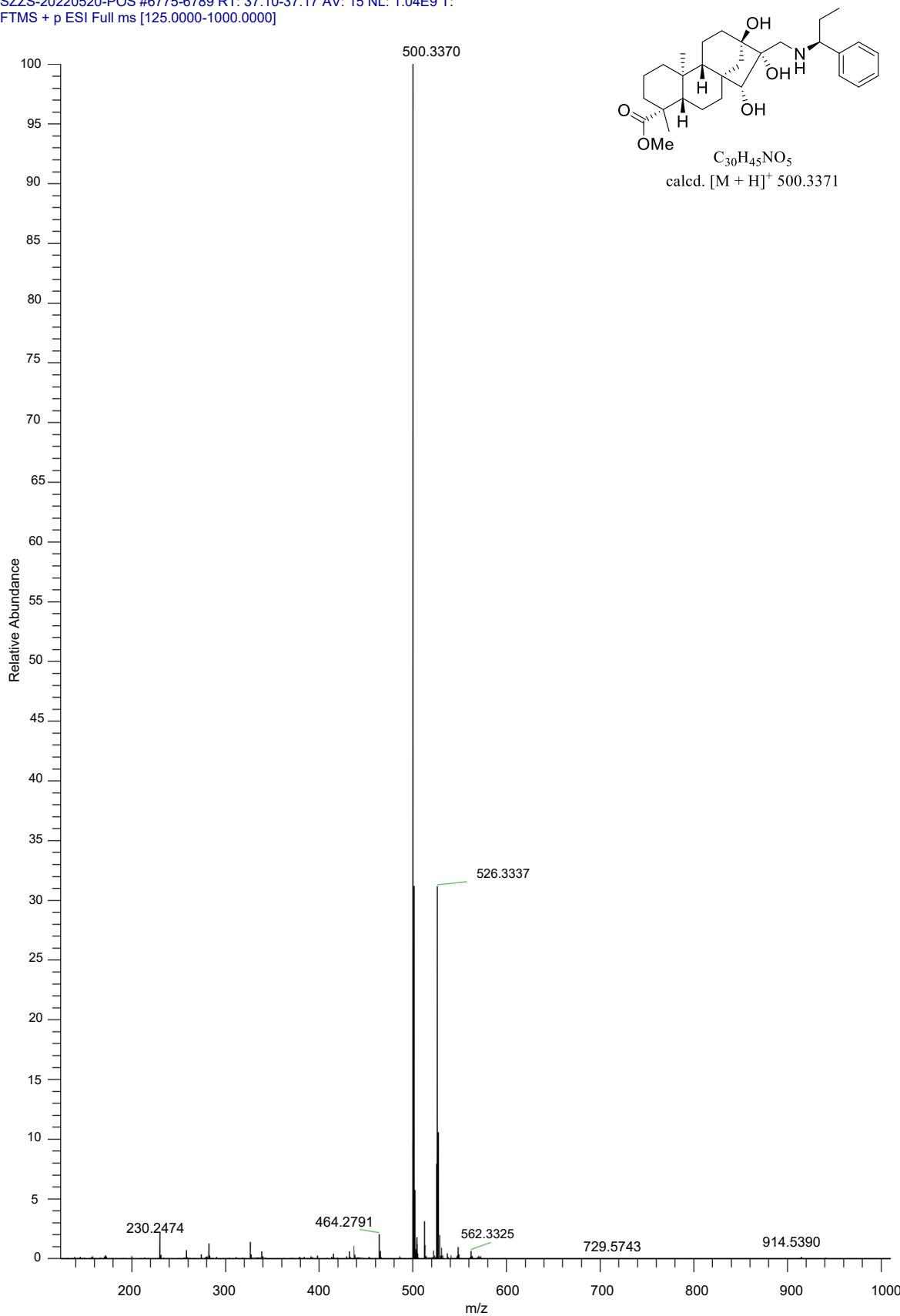
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SZZS-20220520-POS #7096-7112 RT: 38.88-38.96 AV: 17 NL: 2.41E9 T:  
FTMS + p ESI Full ms [125.0000-1000.0000]

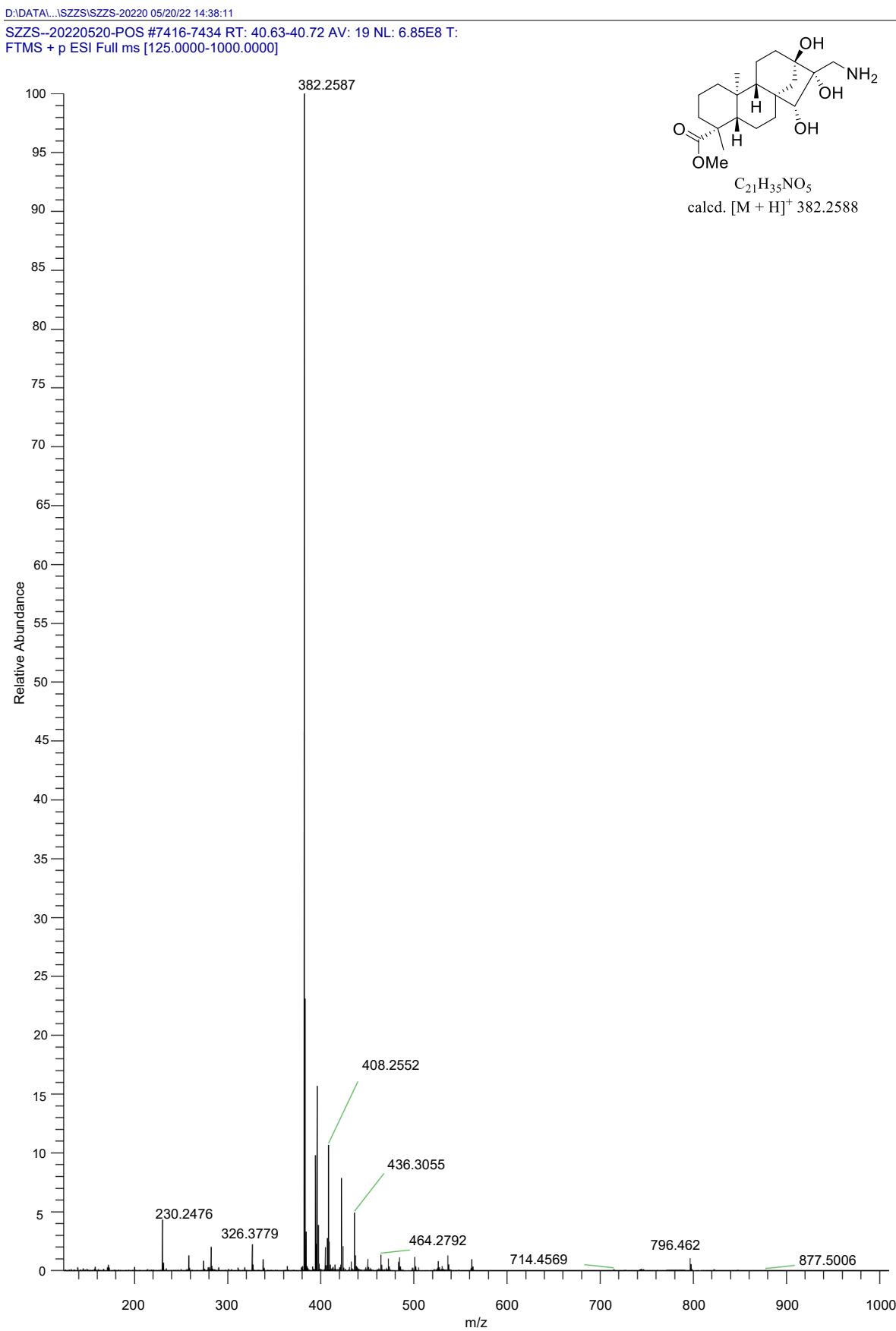


HRMS of compound (*4R,6aR,7R,8R,9S,11bS*)-methyl 7,8,9-trihydroxy-4,11b-dimethyl-8-(((*S*)-1-phenylpropyl)amino)methyl)tetradecahydro-6a,9-methanocyclohepta[*a*]naphthalene-4-carboxylate (**16**)

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SZZS-20220520-POS #6775-6789 RT: 37.10-37.17 AV: 15 NL: 1.04E9 T:  
FTMS + p ESI Full ms [125.0000-1000.0000]



HRMS of compound (*4R,6aR,7R,8R,9S,11bS*)-methyl 8-(aminomethyl)-7,8,9-trihydroxy-4,11b-dimethyltetradecahydro-6a,9-methanocyclohepta[a]naphthalene-4-carboxylate (**17**)



HRMS of compound (*4R,5'R,6aR,7R,9S,11bS*)-methyl 3'-benzyl-7,9-dihydroxy-4,11b-dimethyldodecahydro-1*H*-spiro[6a,9-methanocyclohepta[a]naphthalene-8,5'-oxazolidine]-4-carboxylate (**18**)

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SZZS-20220520-POS #7523-7541 RT: 41.22-41.31 AV: 19 NL: 3.28E8 T:  
FTMS + p ESI Full ms [125.0000-1000.0000]

