

## Supporting Information

### Peroxide-free Synthesis of Benzo[*b*][1,4]thiazine 1,1-dioxide and Its Antimicrobial Study

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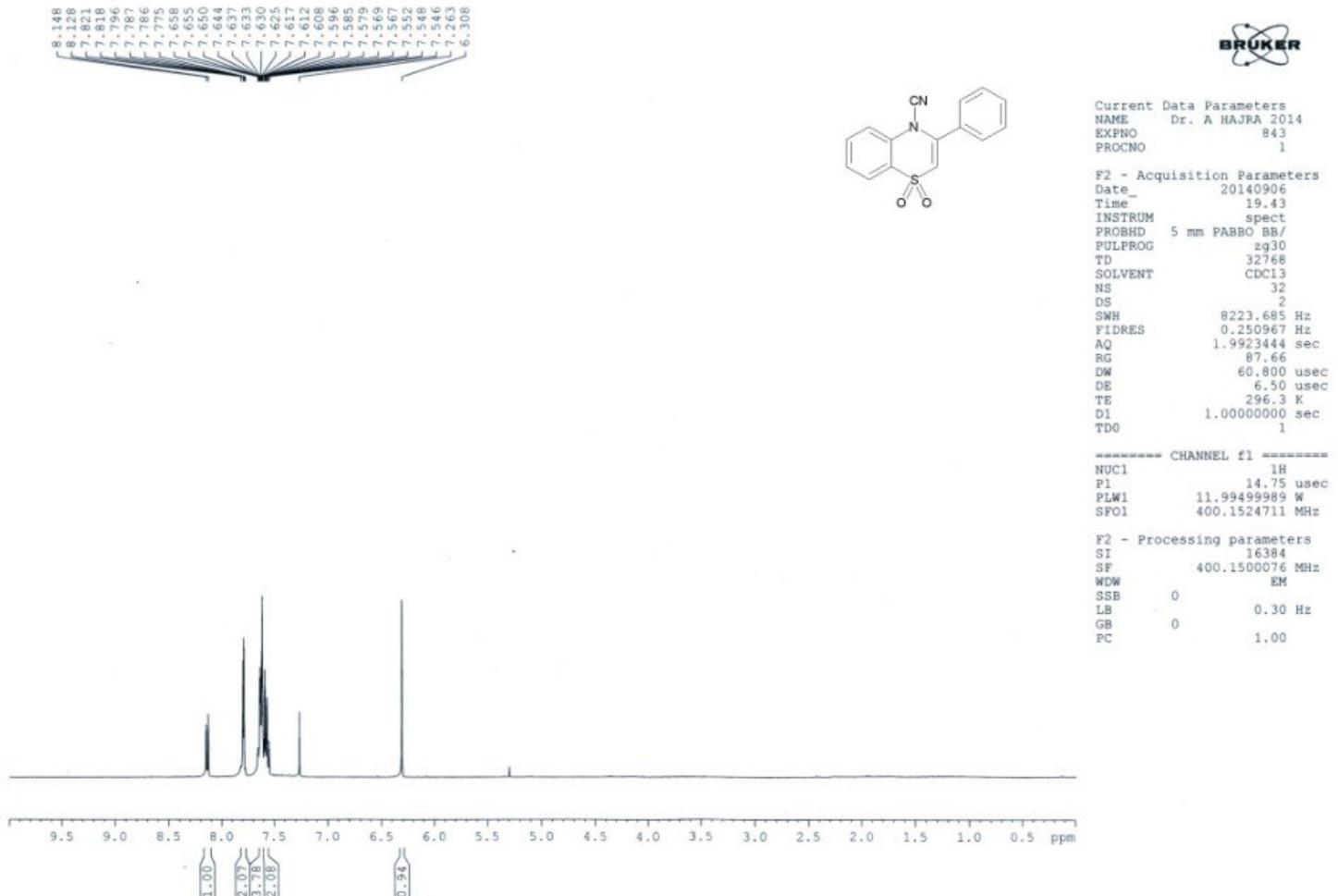
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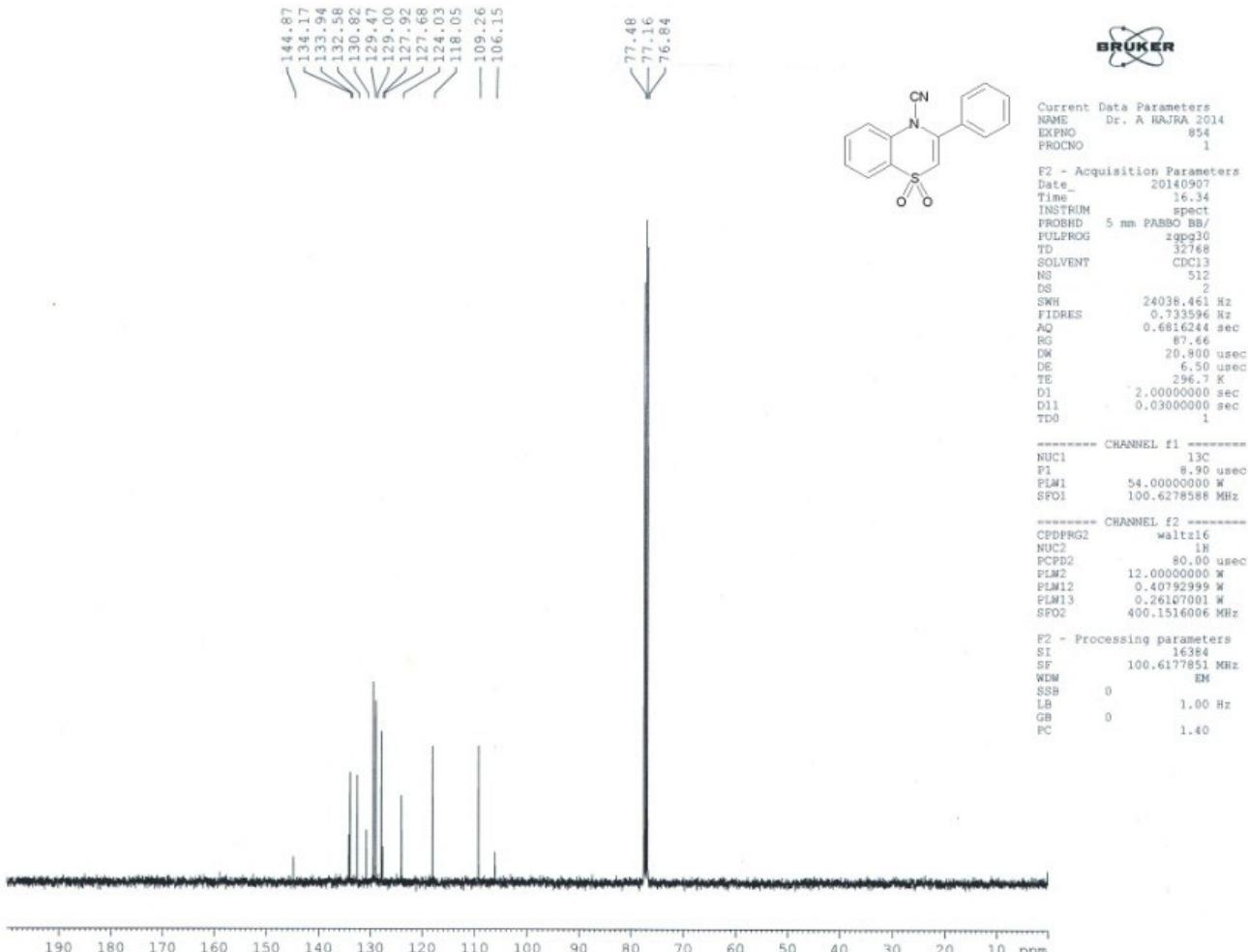
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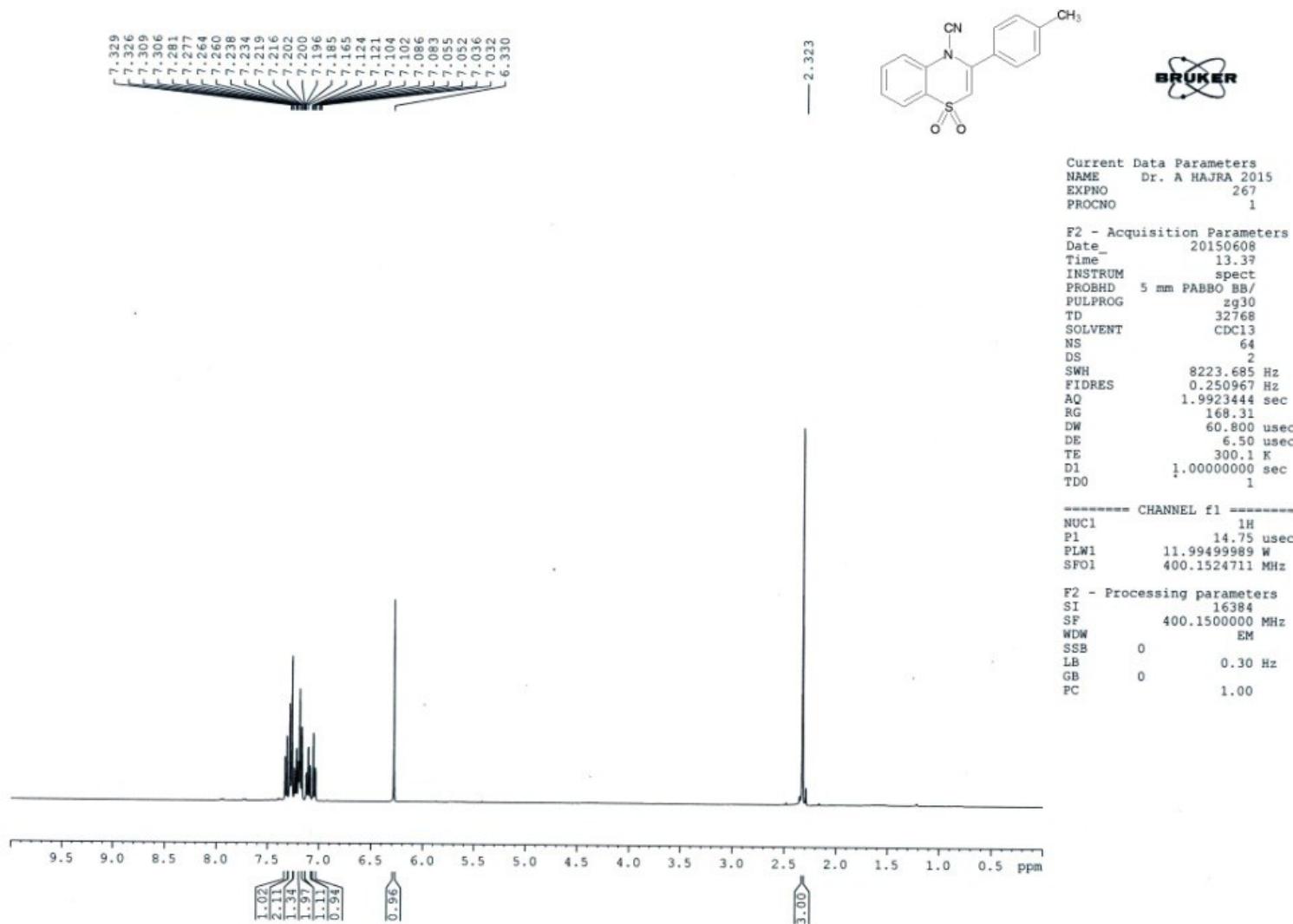
<sup>1</sup>H NMR of 3-phenyl-4H-benzo[*b*][1,4]thiazine-4-carbonitrile 1,1-dioxide (**3a**):



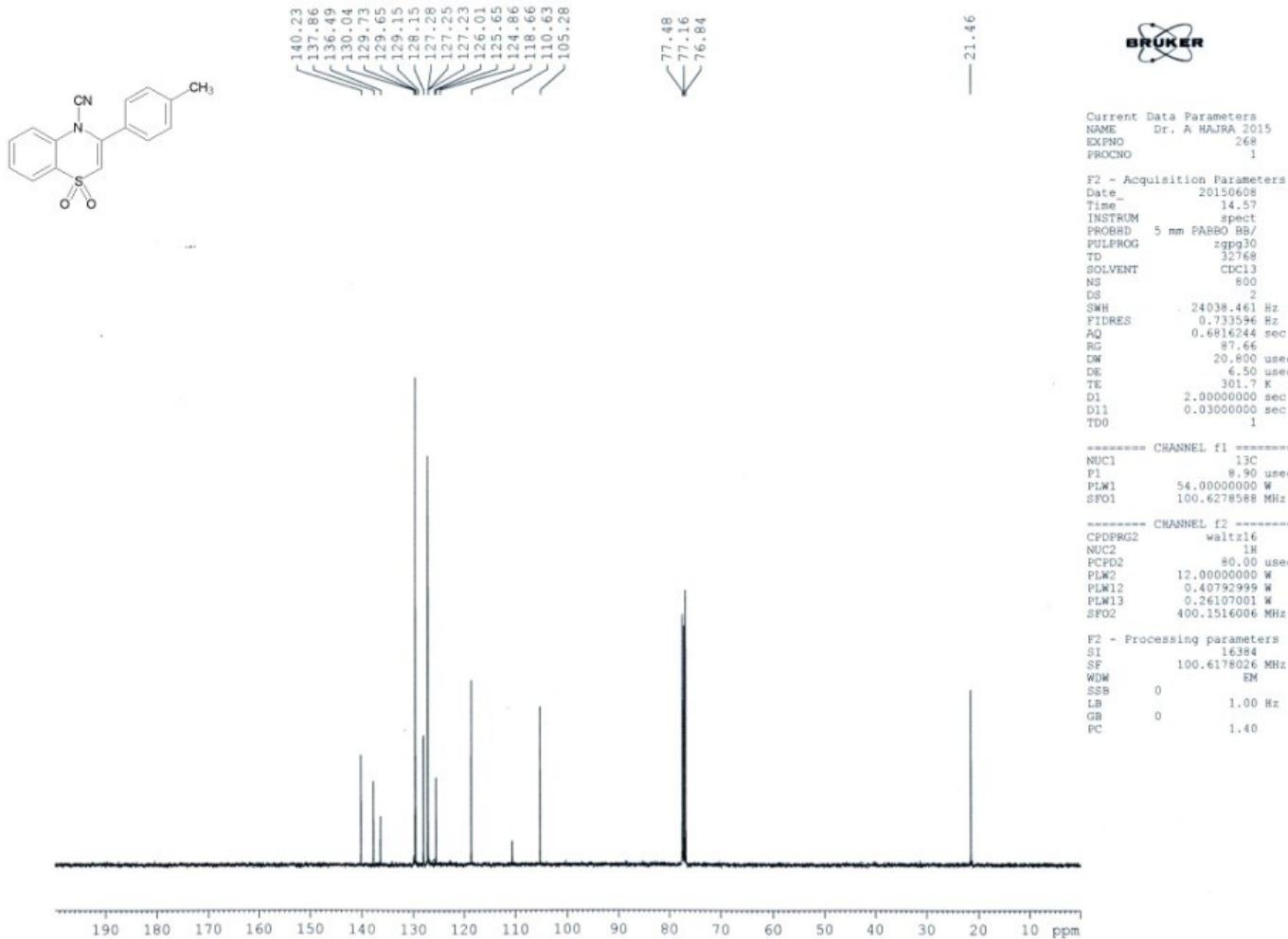
<sup>13</sup>C NMR of 3-phenyl-4H-benzo[b][1,4]thiazine-4-carbonitrile 1,1-dioxide (**3a**):



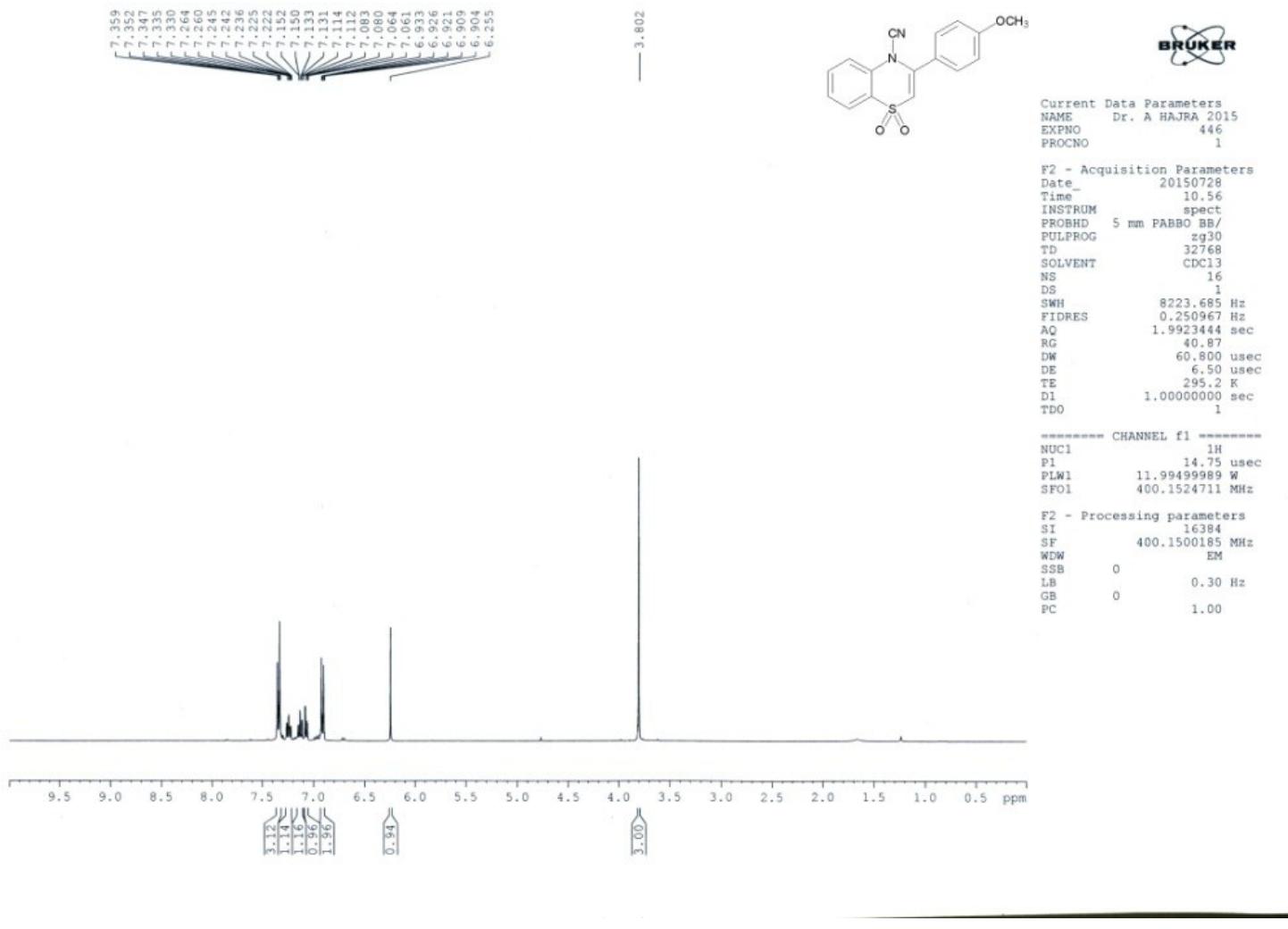
<sup>1</sup>H NMR of 3-(*p*-tolyl)-4*H*-benzo[*b*][1,4]thiazine-4-carbonitrile 1,1-dioxide (**3b**):



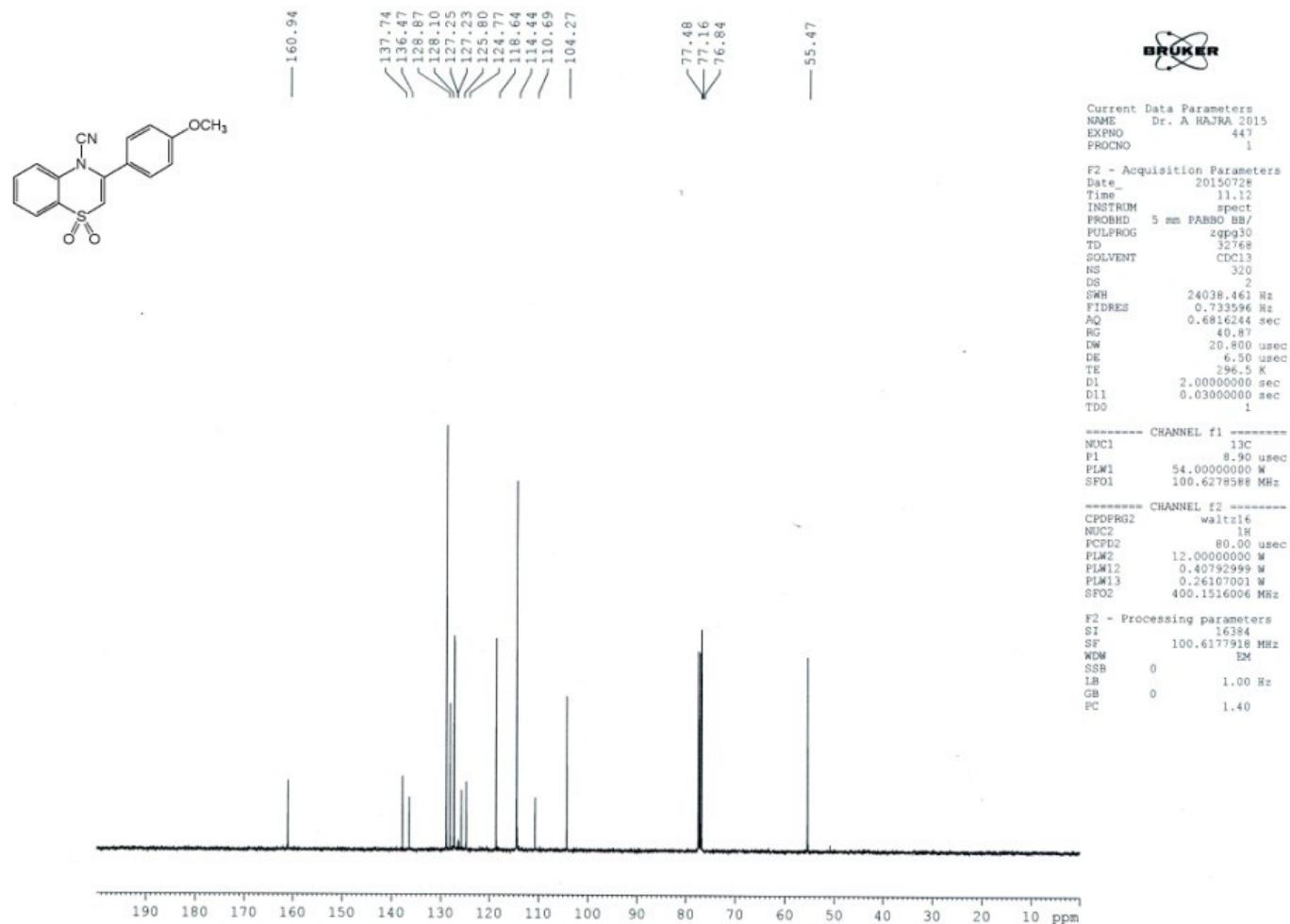
<sup>13</sup>C NMR of 3-(*p*-tolyl)-4*H*-benzo[*b*][1,4]thiazine-4-carbonitrile 1,1-dioxide (**3b**):



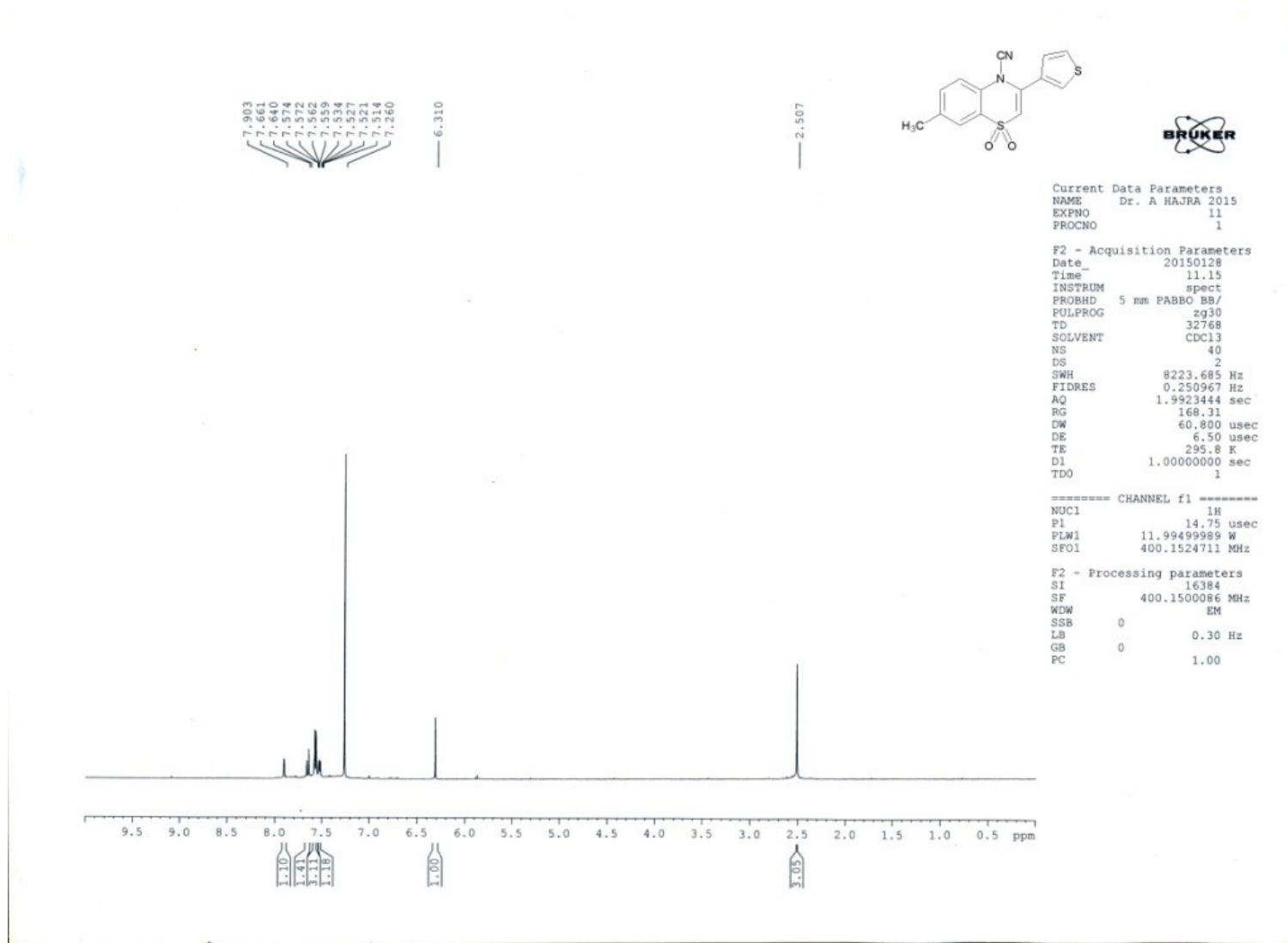
<sup>1</sup>H NMR of 3-(4-methoxyphenyl)-4H-benzo[*b*][1,4]thiazine-4-carbonitrile 1,1-dioxide (**3c**):



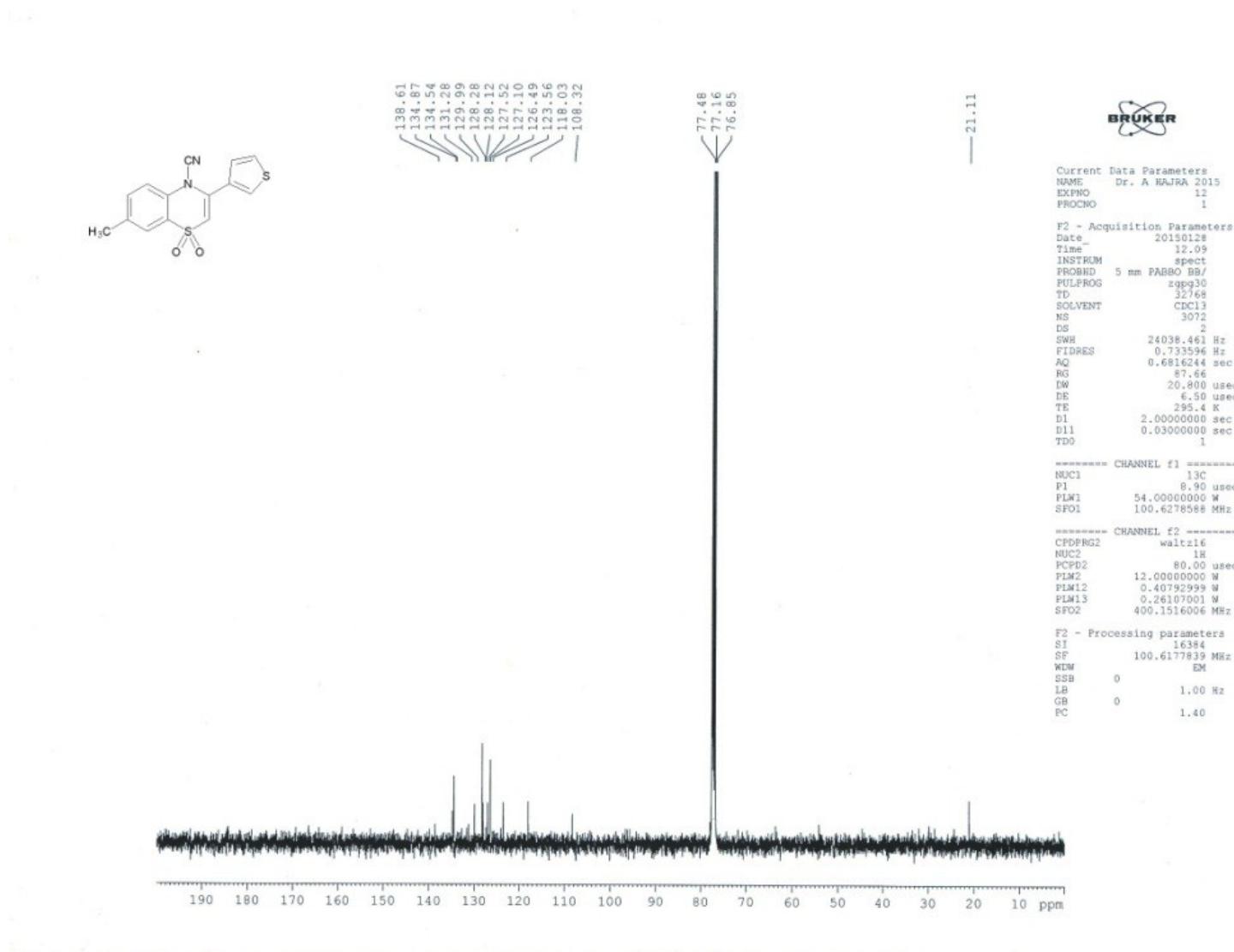
<sup>13</sup>C NMR of 3-(4-methoxyphenyl)-4H-benzo[b][1,4]thiazine-4-carbonitrile 1,1-dioxide (**3c**):



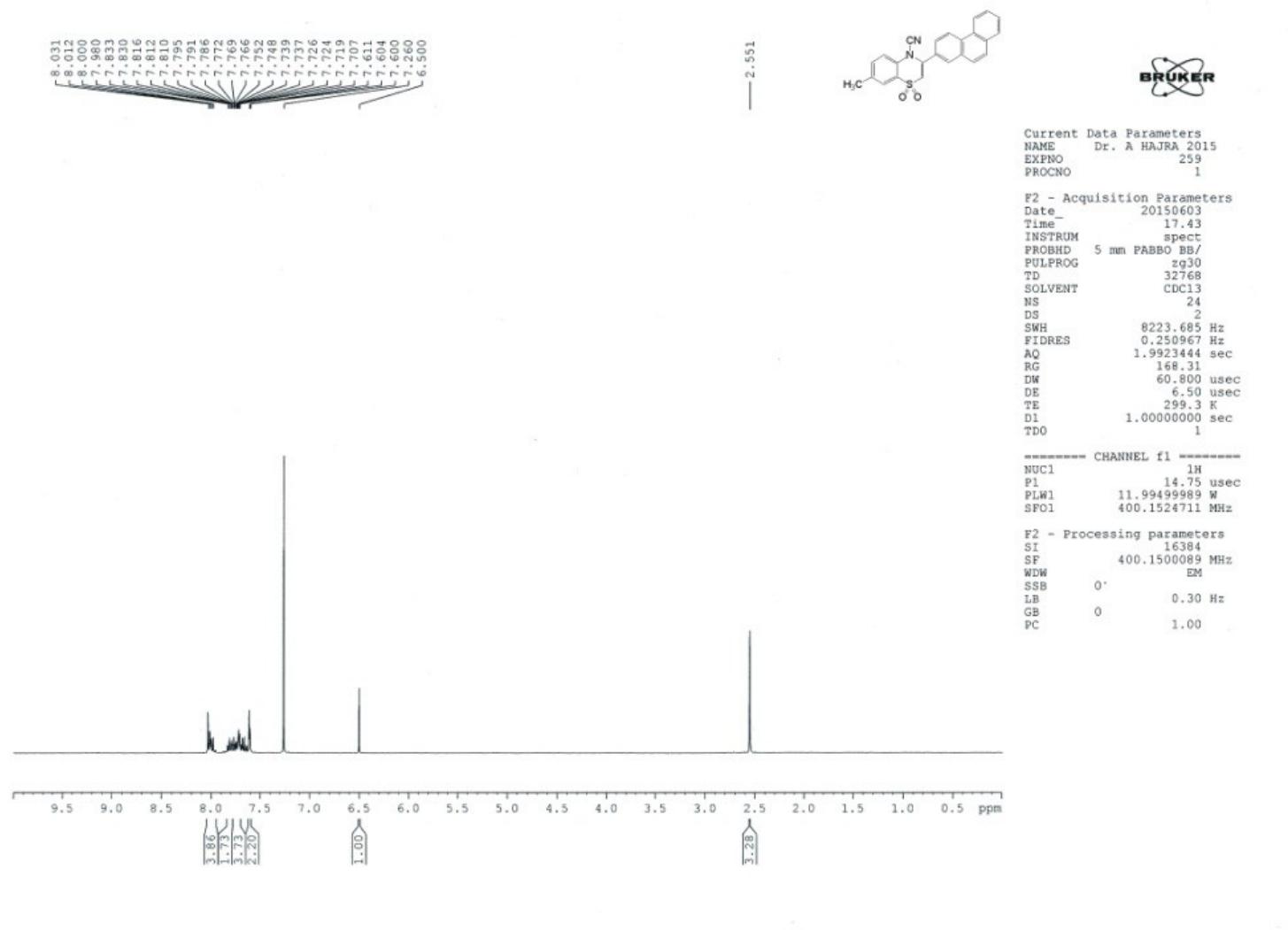
<sup>1</sup>H NMR of 7-methyl-3-(thiophen-3-yl)-4H-benzo[*b*][1,4]thiazine-4-carbonitrile 1,1-dioxide (**3d**):



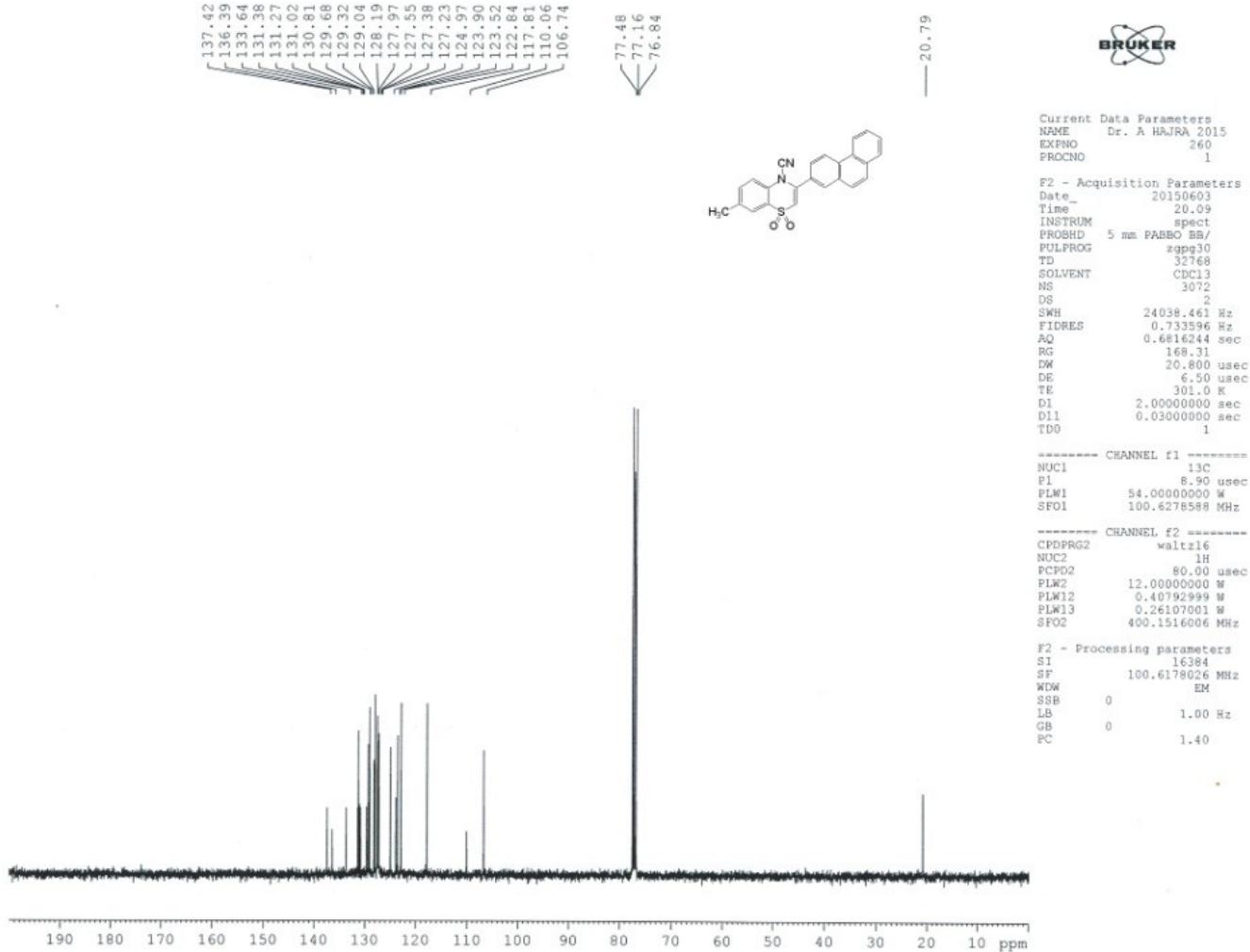
<sup>13</sup>C NMR of 7-methyl-3-(thiophen-3-yl)-4H-benzo[b][1,4]thiazine-4-carbonitrile 1,1-dioxide (**3d**):



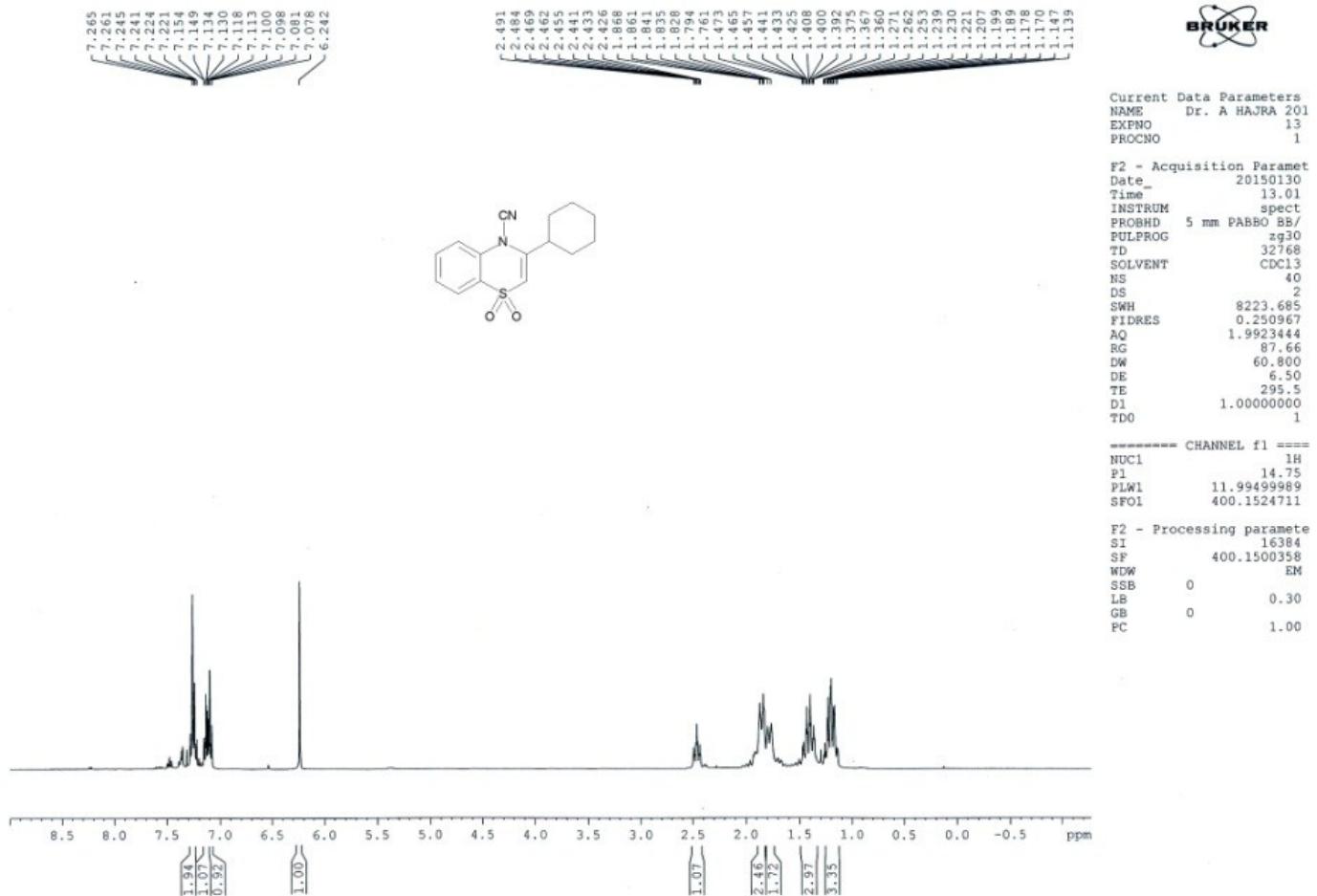
<sup>1</sup>H NMR of 7-methyl-3-(phenanthren-2-yl)-4H-benzo[b][1,4]thiazine-4-carbonitrile 1,1-dioxide (**3e**):



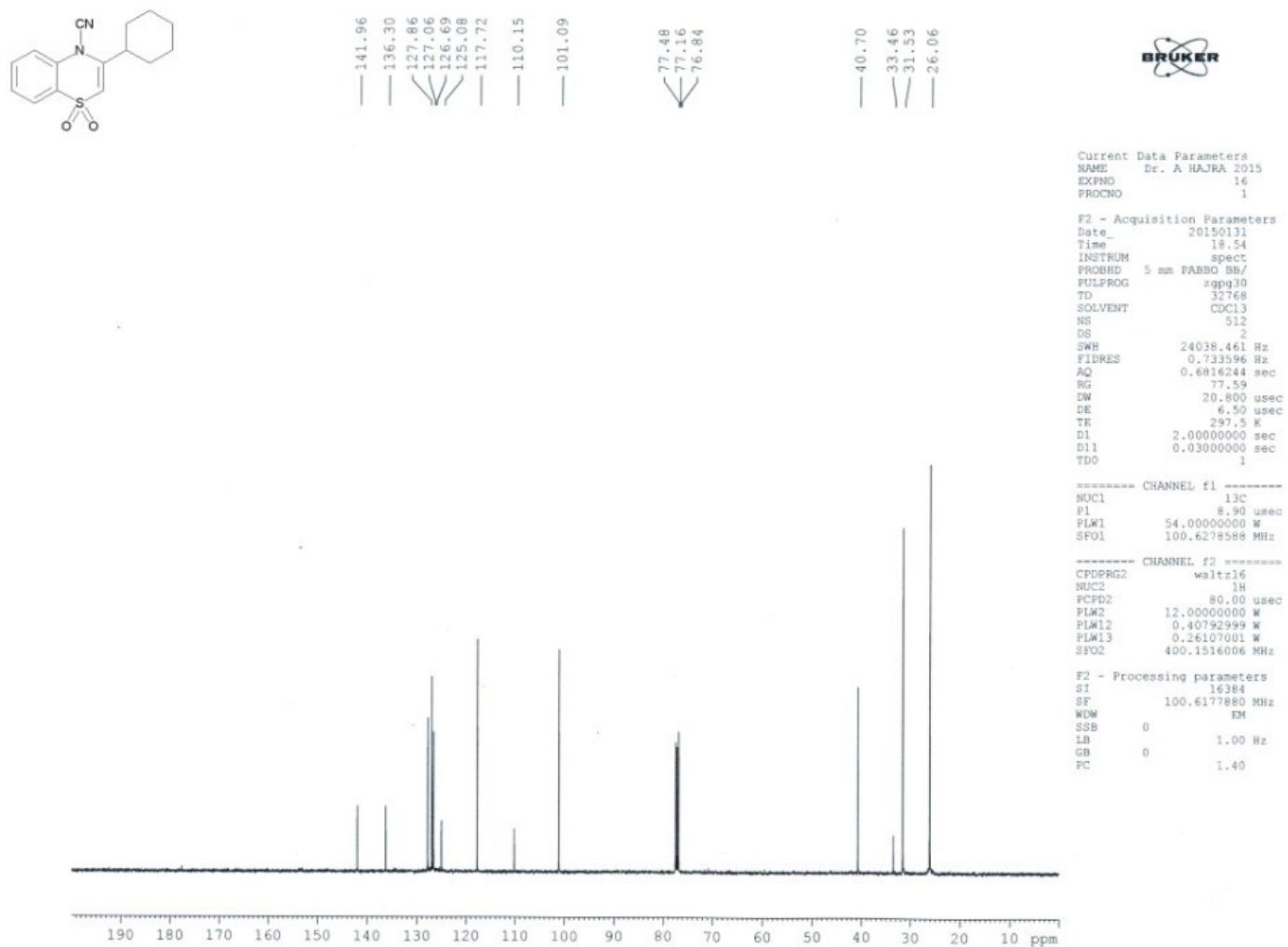
<sup>13</sup>C NMR of 7-methyl-3-(phenanthren-2-yl)-4H-benzo[b][1,4]thiazine-4-carbonitrile 1,1-dioxide (**3e**):



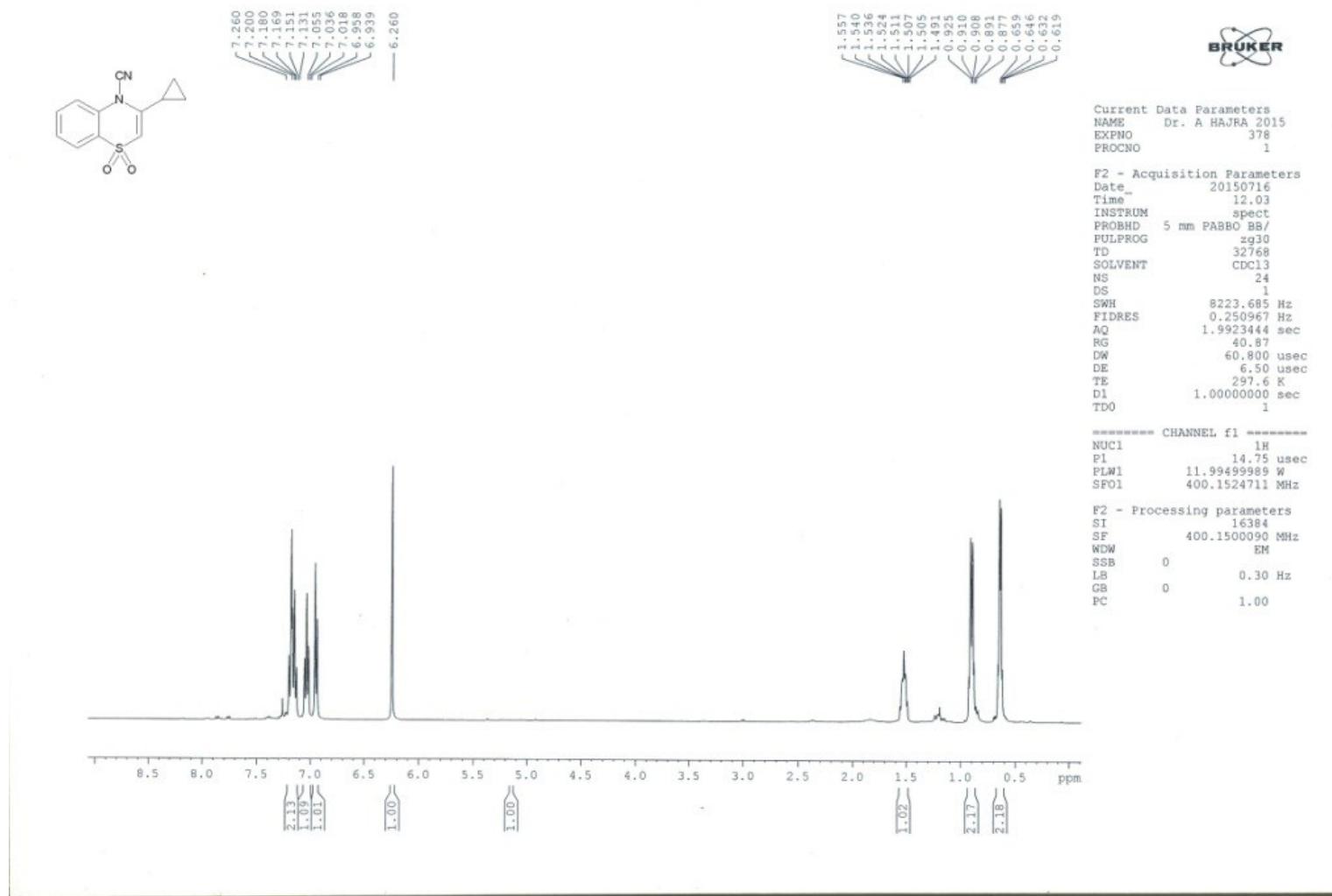
<sup>1</sup>H NMR of 3-cyclohexyl-4H-benzo[b][1,4]thiazine-4-carbonitrile 1,1-dioxide (**3f**):



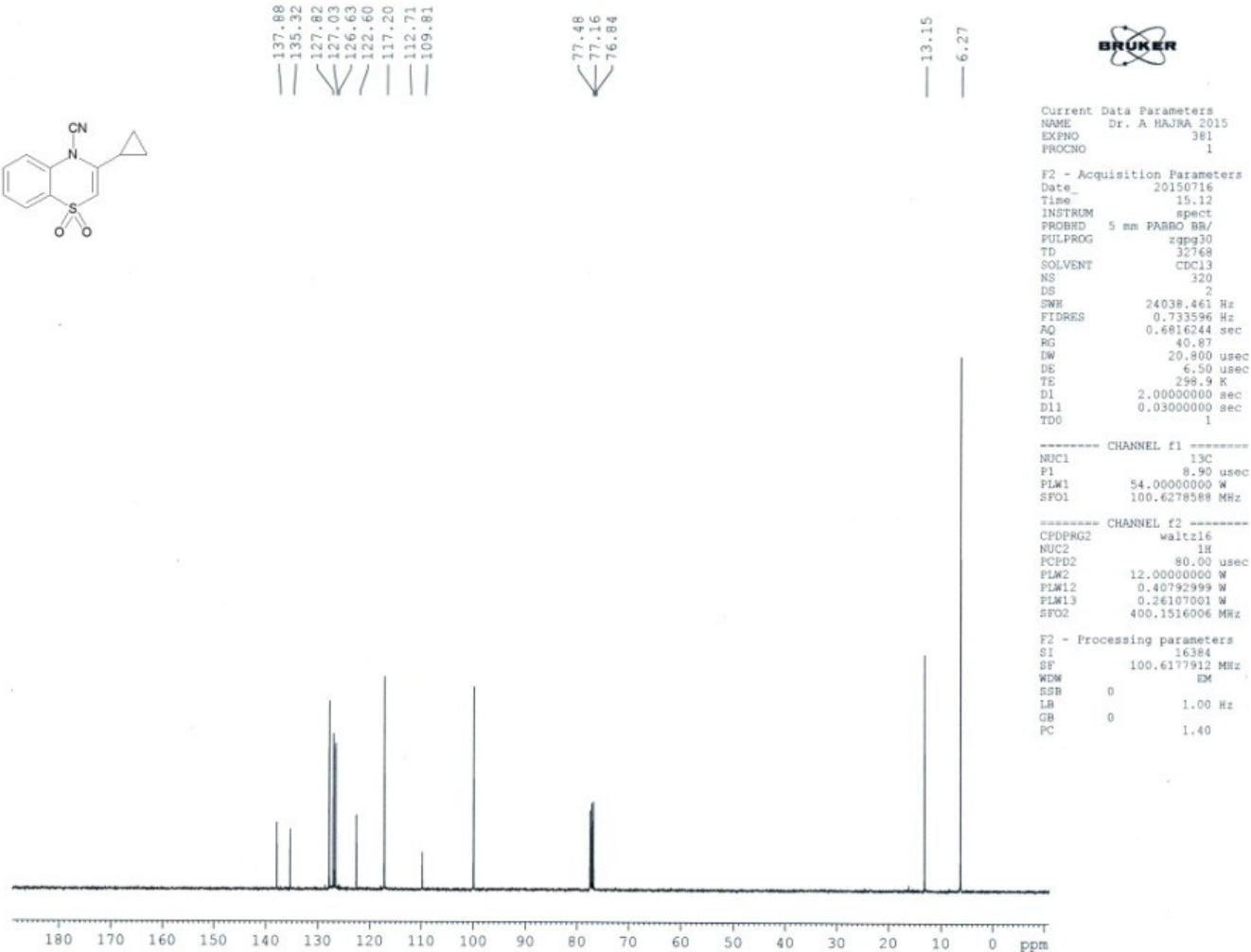
<sup>13</sup>C NMR of 3-cyclohexyl-4H-benzo[*b*][1,4]thiazine-4-carbonitrile 1,1-dioxide (**3f**):



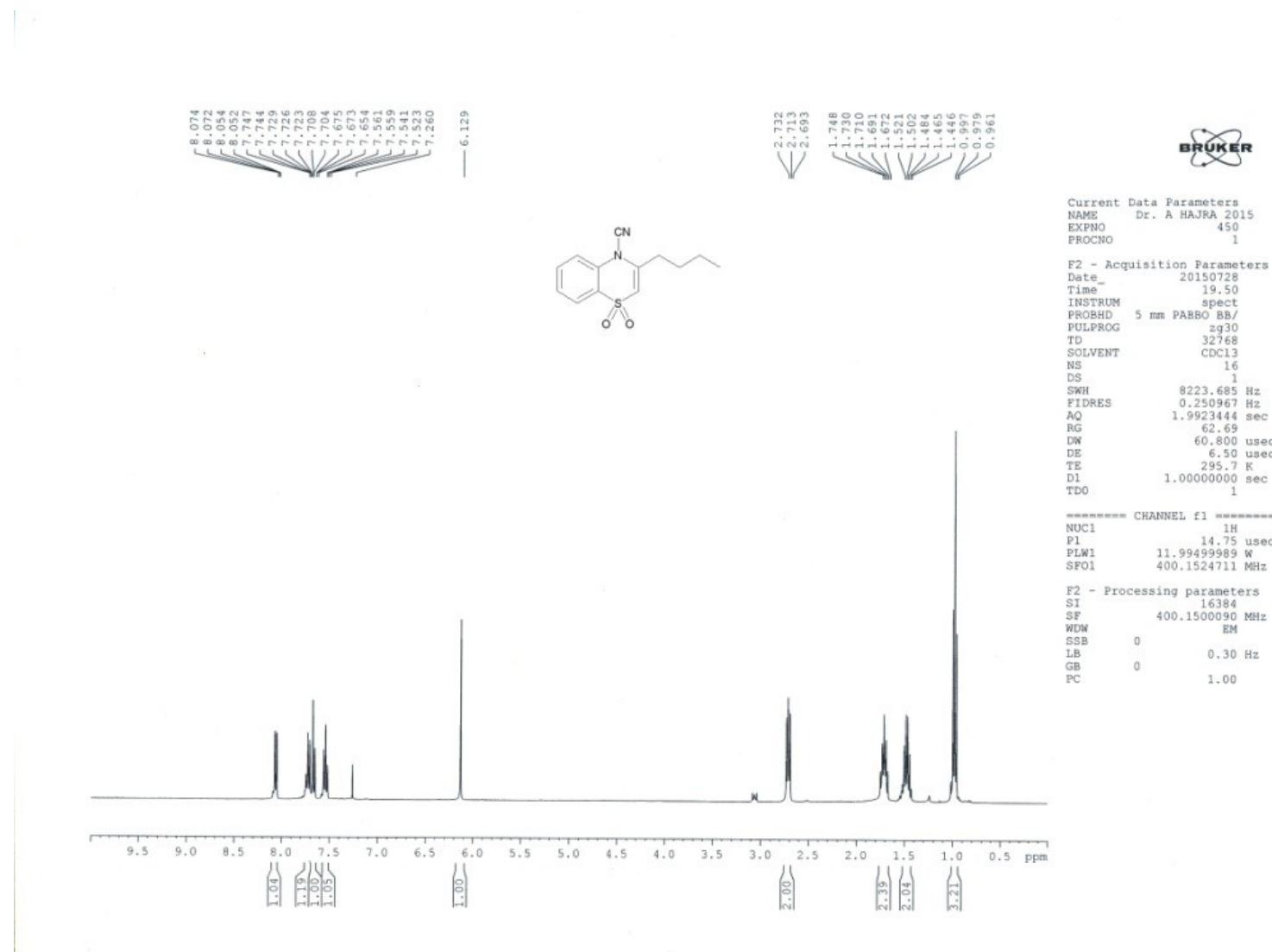
<sup>1</sup>H NMR of 3-cyclopropyl-4*H*-benzo[*b*][1,4]thiazine-4-carbonitrile 1,1-dioxide (**3g**):



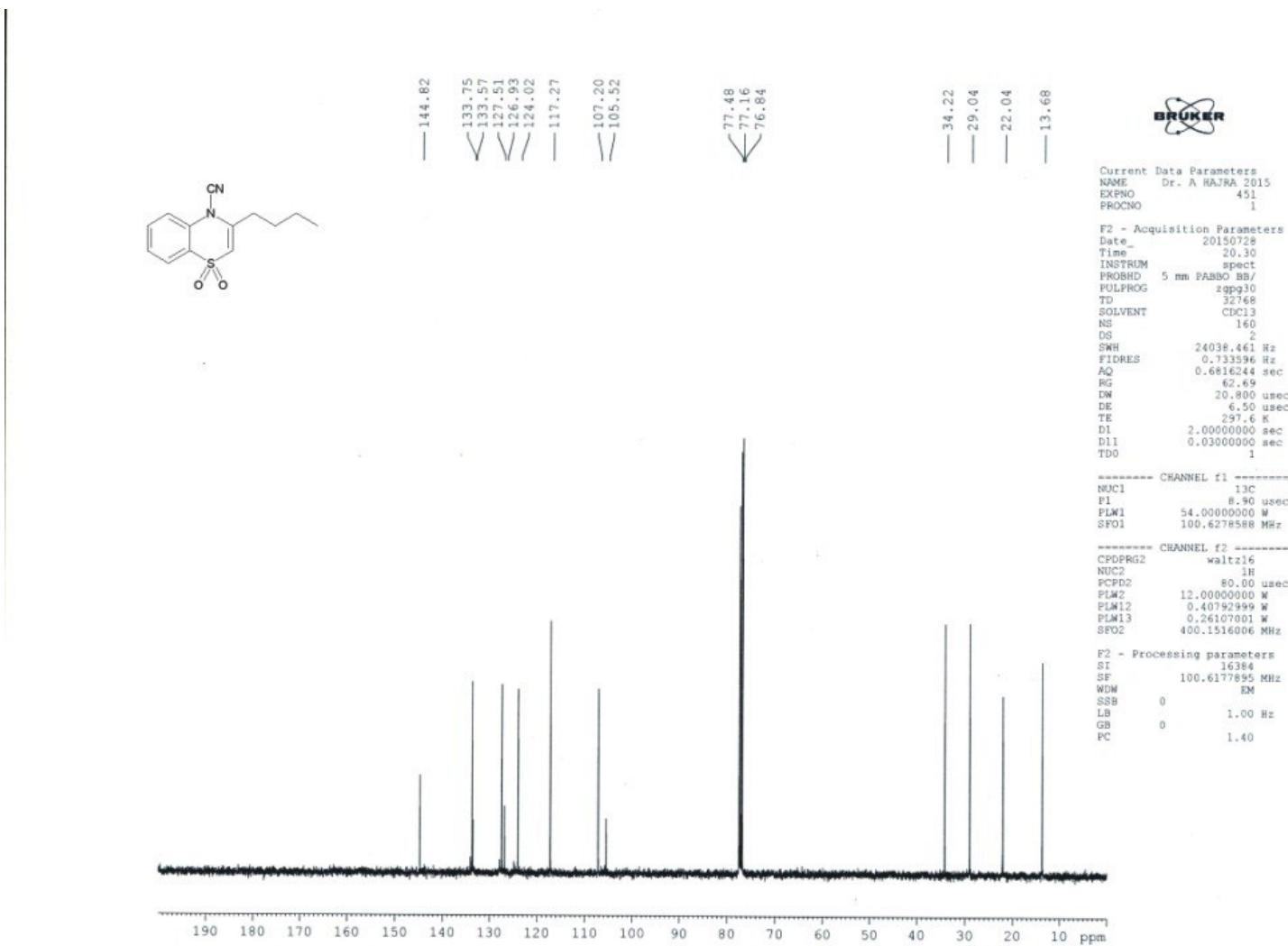
<sup>13</sup>C NMR of 3-cyclopropyl-4H-benzo[b][1,4]thiazine-4-carbonitrile 1,1-dioxide (**3g**):



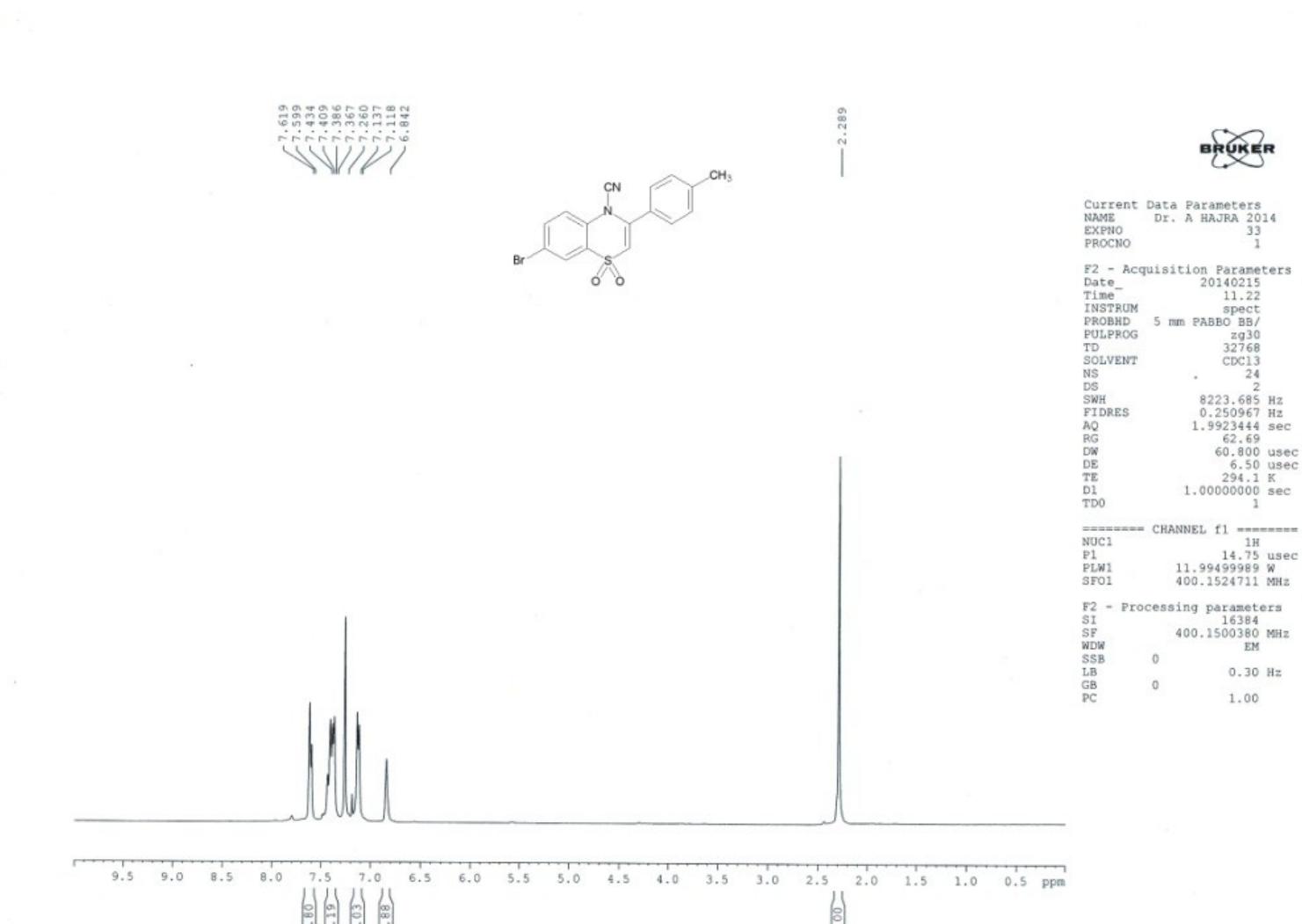
<sup>1</sup>H NMR of 3-butyl-4H-benzo[*b*][1,4]thiazine-4-carbonitrile 1,1-dioxide (**3h**):



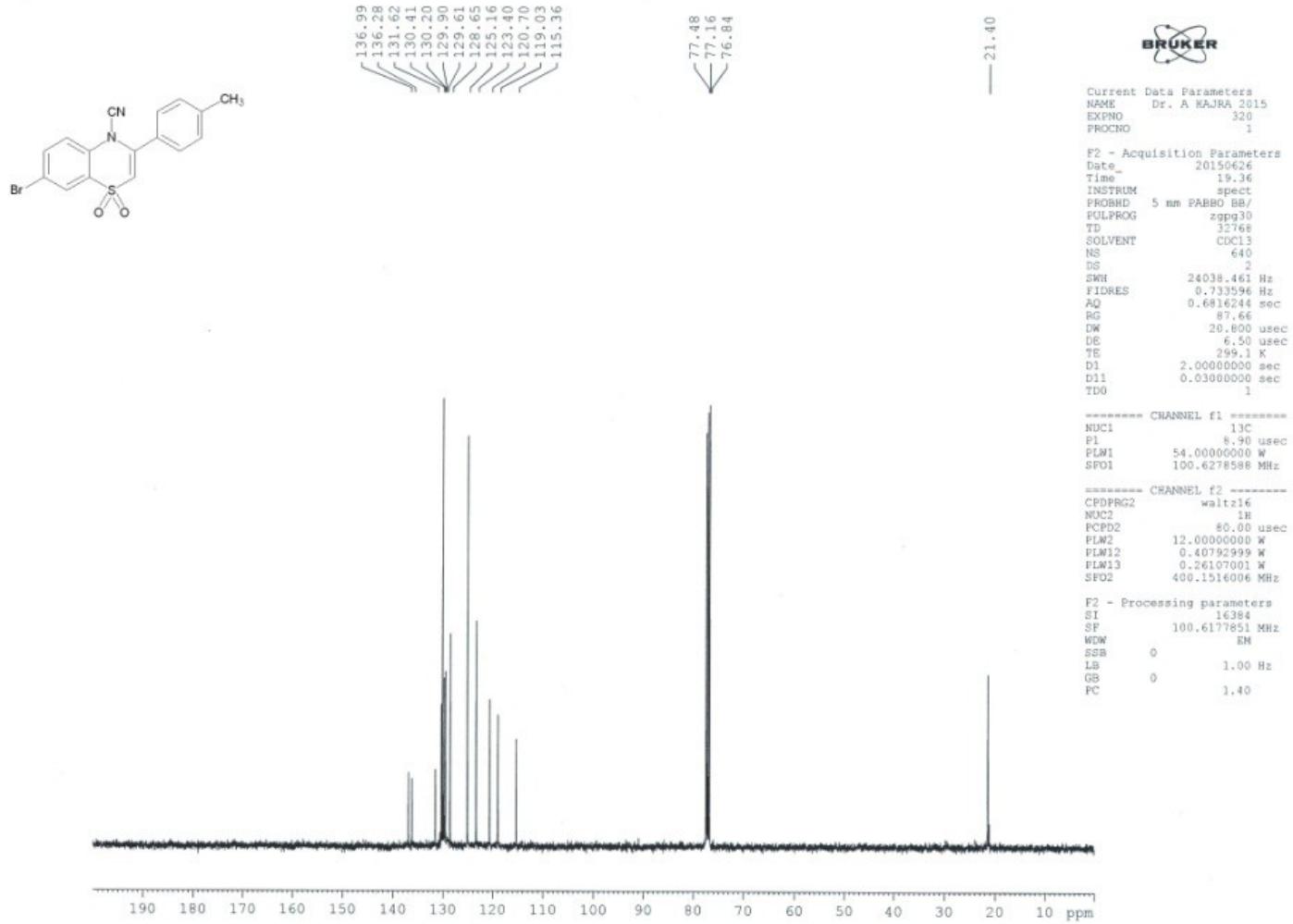
<sup>13</sup>C NMR of 3-butyl-4H-benzo[*b*][1,4]thiazine-4-carbonitrile 1,1-dioxide (**3h**):



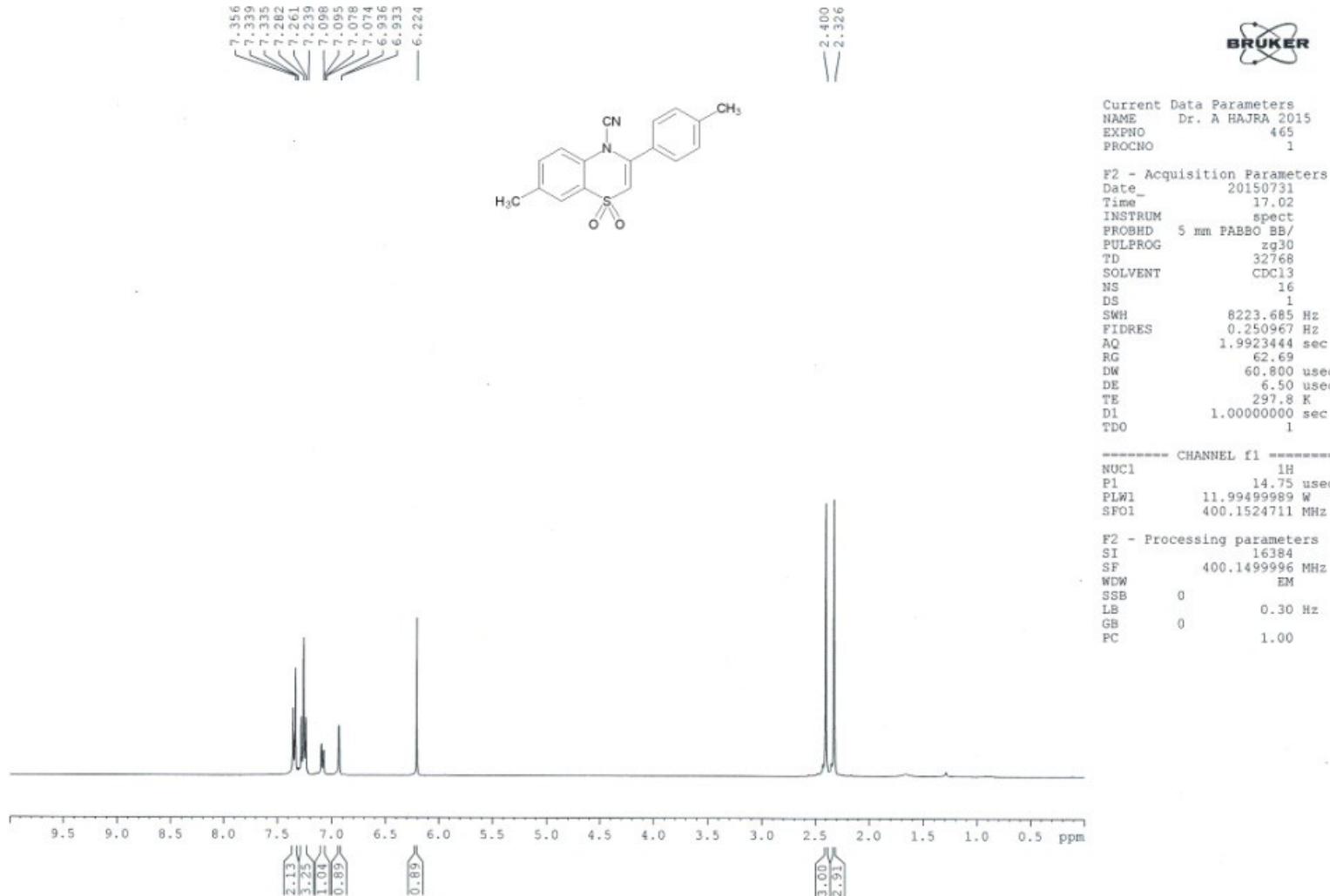
<sup>1</sup>H NMR of 7-bromo-3-(*p*-tolyl)-4*H*-benzo[*b*][1,4]thiazine-4-carbonitrile 1,1-dioxide (**3i**):



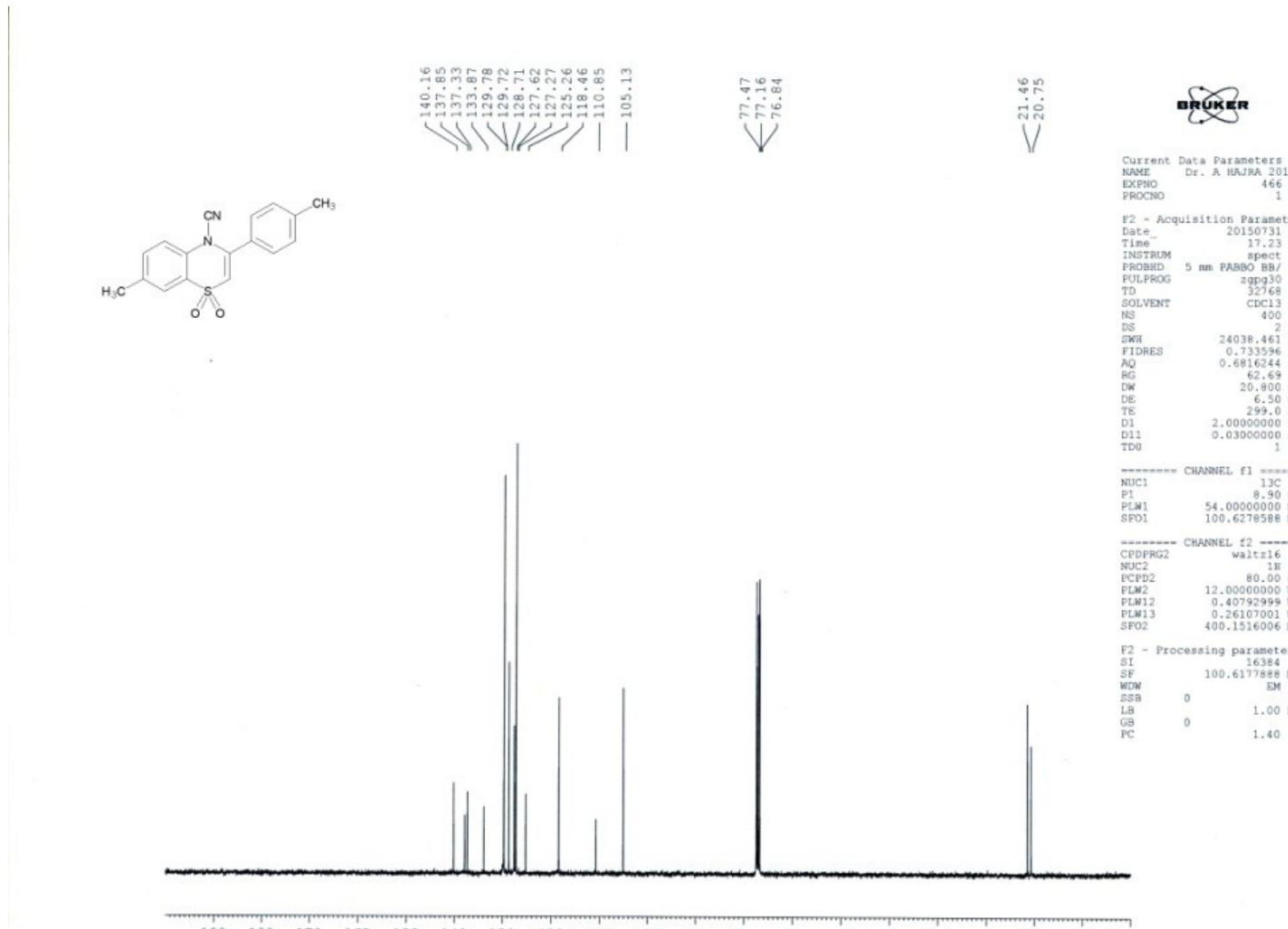
<sup>13</sup>C NMR of 7-bromo-3-(*p*-tolyl)-4*H*-benzo[*b*][1,4]thiazine-4-carbonitrile 1,1-dioxide (**3i**):



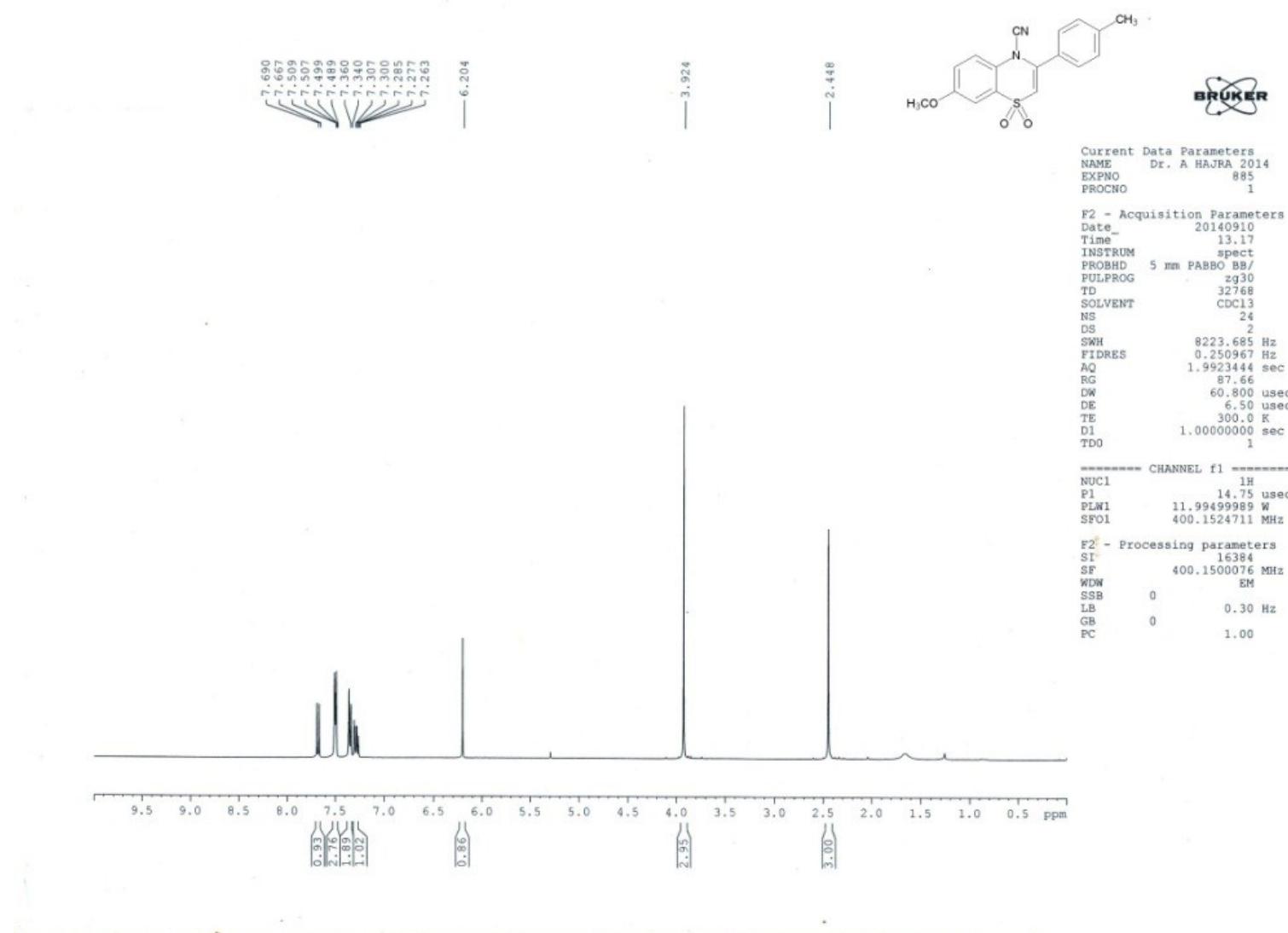
<sup>1</sup>H NMR of 7-methyl-3-(*p*-tolyl)-4*H*-benzo[*b*][1,4]thiazine-4-carbonitrile 1,1-dioxide (**3j**):



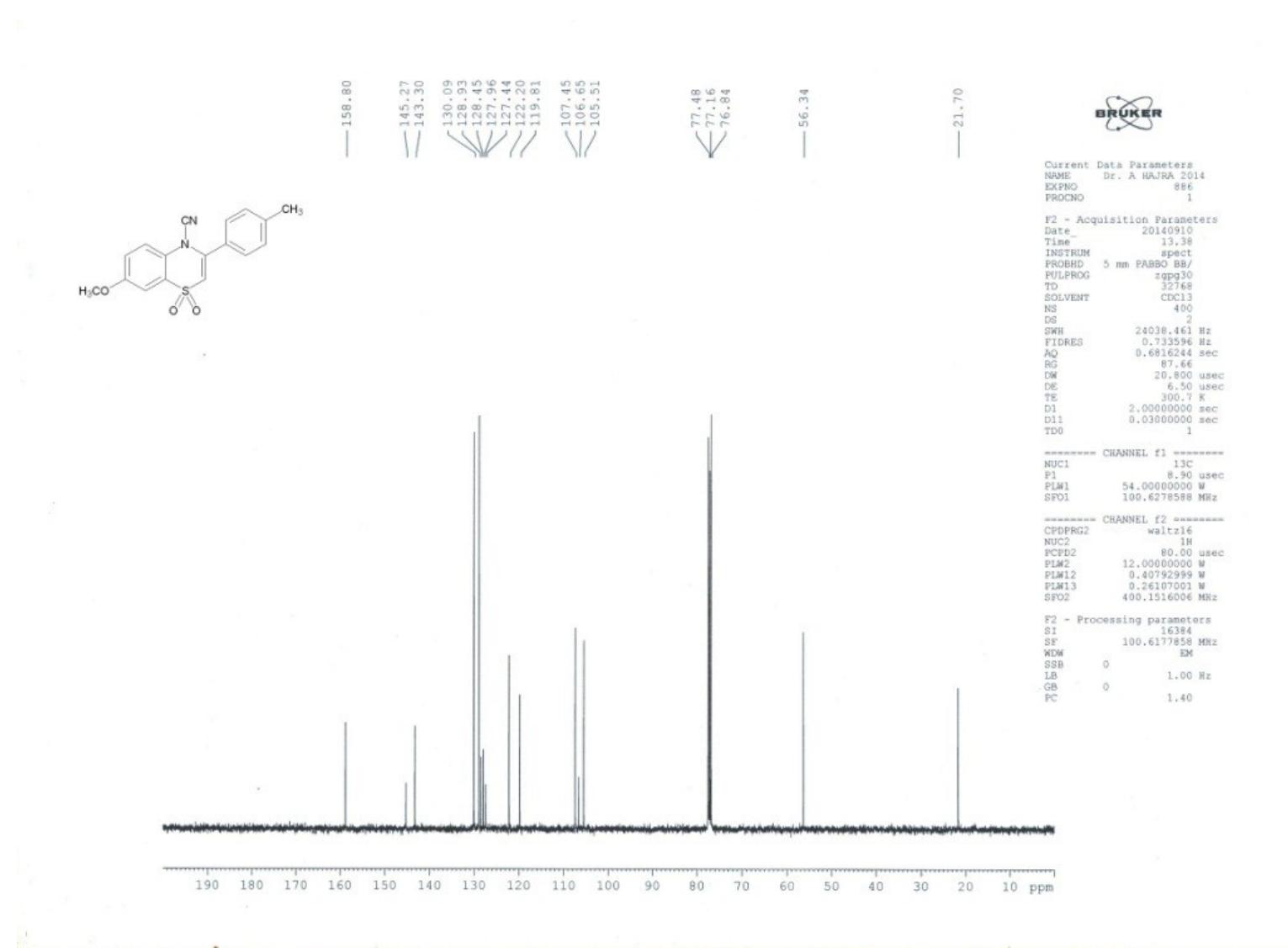
<sup>13</sup>C NMR of 7-methyl-3-(*p*-tolyl)-4*H*-benzo[*b*][1,4]thiazine-4-carbonitrile 1,1-dioxide (**3j**):



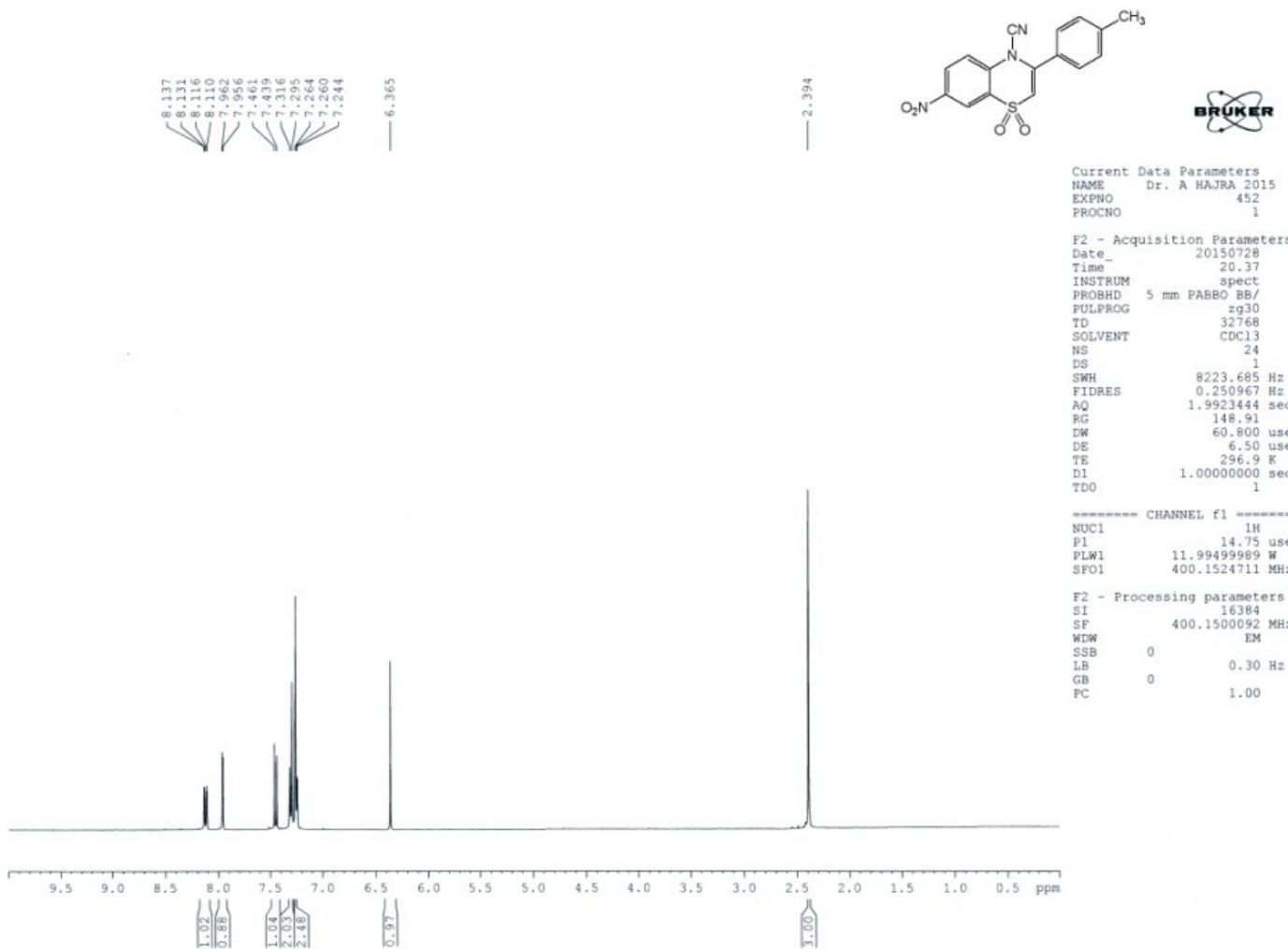
<sup>1</sup>H NMR of 7-methoxy-3-(*p*-tolyl)-4*H*-benzo[*b*][1,4]thiazine-4-carbonitrile 1,1-dioxide (**3k**):



<sup>13</sup>C NMR of 7-methoxy-3-(*p*-tolyl)-4*H*-benzo[*b*][1,4]thiazine-4-carbonitrile 1,1-dioxide (**3k**):



<sup>1</sup>H NMR of 7-nitro-3-(*p*-tolyl)-4*H*-benzo[*b*][1,4]thiazine-4-carbonitrile 1,1-dioxide (**3l**):



<sup>13</sup>C NMR of 7-nitro-3-(*p*-tolyl)-4*H*-benzo[*b*][1,4]thiazine-4-carbonitrile 1,1-dioxide (**3I**):

