

Supporting information  
for

**An Unexpected Reaction to Methodology: An Unprecedented Approach to transamidation**

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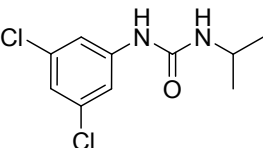
**General Consideration:**

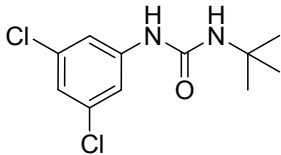
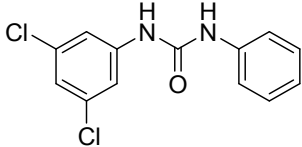
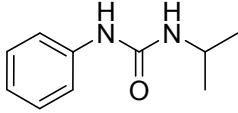
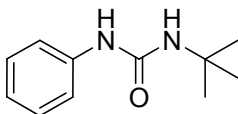
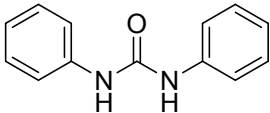
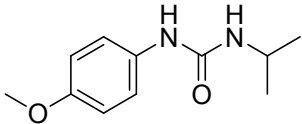
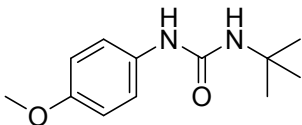
All chemicals and reagents obtained from Sigma Aldrich (India), Merck (India) and Avra Synthesis (India) were used without further purification. Melting points were determined on a Superfit melting point apparatus (India) and are uncorrected. <sup>1</sup>H NMR (400 MHz) and <sup>13</sup>C NMR (100 MHz) spectra were recorded on a Agilent Technologies (USA) using DMSO (d<sub>6</sub>) and CDCl<sub>3</sub> as solvent. High resolution mass spectroscopic analysis was performed on a Bruker MicroTOF QII mass spectrometer in positive mode. Progress of the reaction was monitored by TLC using silica gel 60 F254, with the solvent system comprising hexane and ethylacetate in the ratio 03:01 and the compounds on the TLC plates were detected by under UV light.

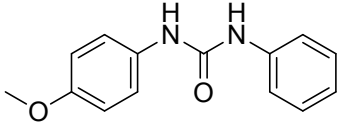
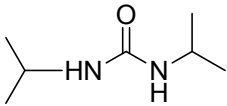
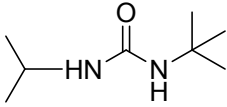
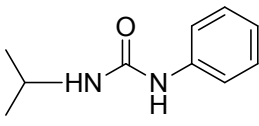
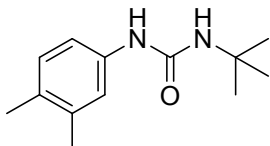
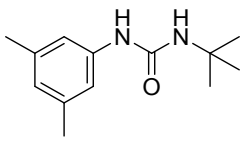
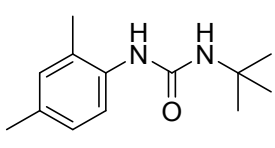
**General Synthesis procedure of N'-substituted ureas (3a-r):**

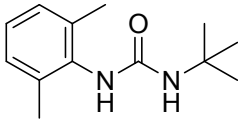
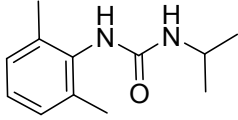
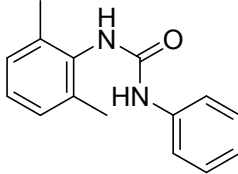
The ureas (1a-r, 1 mmol) was separately dissolved in 5 mL of THF and added anhydrous sodium hydride (1mmol) to the solution, after 5 minutes, isocyanates (1 mmol) were added to the solutions, after completion of the reaction (monitored by TLC), reaction mass was poured in to ice cold water and then extracted with EtOAc, the organic layer was washed with water and dried over anhydrous sodium sulphate. The organic solvent was removed under vacuum to get crude products (3a-r). The solid product was further purified by column chromatography by using hexane and ethyl acetate (95:5) as eluent to give pure products.

**<sup>1</sup>H, <sup>13</sup>C-NMR and Mass details**

Name & Structure	Yield %	Melting point in °C		Spectroscopic data
		Observed	Literature	
<b>1-(3,5-dichlorophenyl)-3-isopropylurea 3a</b> 	88	135-137	--	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δH: 1.08 (d, 6H, <i>J</i> =6.4 Hz, Me <sub>2</sub> ), 3.69-3.78 (m, 1H, CH), 6.21 (d, 1H, <i>J</i> =7.6 Hz, NH), 7.03 (t, 1H, <i>J</i> =3.6 Hz, NH), 7.44 (d, 2H, <i>J</i> =2.0 Hz, ArH), 8.67 (s, 1H, ArH); <sup>13</sup> C NMR (100 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ: 22.7, 41.8, 115.6, 119.9, 134.0, 143.1, 154.0; HRMS <i>m/z</i> : 247.0570 [M <sup>+</sup> ], 249.0564 [M+2]
<b>1-(<i>tert</i>-butyl)-3-(3,5-</b>	86	140-141	--	<sup>1</sup> H NMR (400 MHz, CDCl <sub>3</sub> ) δH: 1.30 (s, 9H, Me <sub>3</sub> ), 3.90

<p><b>dichlorophenyl)urea 3b</b></p> 				(s, 2H, NH), 6.53 (d, 2H, $J = 1.6$ Hz, ArH), 7.04 (t, 1H, $J = 2.8$ Hz, ArH); $^{13}\text{C}$ NMR (100 MHz, $\text{CDCl}_3$ ) $\delta$ : 29.2, 50.2, 113.1, 118.2, 135.3, 148.2, 157.1; HRMS $m/z$ : 261.0737 [ $\text{M}^+$ ], 263.0721 [ $\text{M}+2$ ]
<p><b>1-(3,5-dichlorophenyl)-3-phenylurea 3c</b></p> 	78	137-139	--	$^1\text{H}$ NMR (400 MHz, $\text{DMSO}-d_6$ and $\text{CDCl}_3$ ) $\delta$ H: 6.84-6.90 (m, 2H, ArH), 7.14-7.19 (m, 3H, ArH), 7.33 (t, 3H, $J=6.8$ Hz, ArH), 8.20 (d, 1H, $J=8.4$ Hz, ArH), 8.53 (s, 1H, ArH); $^{13}\text{C}$ NMR (100 MHz, $\text{DMSO}-d_6$ and $\text{CDCl}_3$ ) $\delta$ : 121.2, 123.3, 126.8, 127.3, 133.6, 139.5, 143.8, 146.7, 157.3; HRMS $m/z$ : 281.0413 [ $\text{M}^+$ ], 283.0336 [ $\text{M}+2$ ]
<p><b>1-isopropyl-3-phenylurea 3d</b></p> 	91	153-154	155-156 <sup>1</sup>	$^1\text{H}$ NMR (400 MHz, $\text{CDCl}_3$ ) $\delta$ H: 1.10 (d, 6H, $J = 6.4$ Hz, Me2), 3.91-3.96 (m, 1H, CH), 5.20 (s, 1H, NH), 6.98 (t, 1H, $J=14.4$ Hz, ArH), 7.19-7.28 (m, 4H, ArH), 7.41 (s, 1H, NH); $^{13}\text{C}$ NMR (100 MHz, $\text{CDCl}_3$ ) $\delta$ : 23.1, 41.9, 120.2, 123.0, 129.0, 139.0, 155.7; HRMS $m/z$ : 179.1410 [ $\text{M}+1$ ]
<p><b>1-(tert-butyl)-3-phenylurea 3e:</b></p> 	88	165-166	171-173 <sup>2</sup>	$^1\text{H}$ NMR (400 MHz, $\text{CDCl}_3$ ) $\delta$ H: 1.33 (s, 9H, Me3), 5.30 (s, 1H, NH), 6.97 (t, 1H, $J = 14.8$ Hz, ArH), 7.15 (s, 1H, NH), 7.20-7.29 (m, 4H, ArH); $^{13}\text{C}$ NMR (100 MHz, $\text{CDCl}_3$ ) $\delta$ : 29.3, 50.5, 120.1, 122.9, 129.0, 139.2, 155.3; HRMS $m/z$ : 193.1501 [ $\text{M}+1$ ]
<p><b>1,3-Diphenylurea 3f:</b></p> 	75	238-239	241-242 <sup>3</sup>	$^1\text{H}$ NMR (400 MHz, $\text{DMSO}-d_6$ and $\text{CDCl}_3$ ) $\delta$ H: 6.77-6.81 (m, 1H, ArH), 7.05-7.09 (m, 2H, ArH), 7.25 (t, 2H, 8 Hz, ArH), 8.02 (s, 1H, NH); $^{13}\text{C}$ NMR (100 MHz, $\text{DMSO}-d_6$ and $\text{CDCl}_3$ ) $\delta$ : 118.5, 122.0, 128.6, 139.4, 153.0; HRMS $m/z$ : 213.1219 [ $\text{M}+1$ ]
<p><b>1-isopropyl-3-(4-methoxyphenyl)urea 3g</b></p> 	90	150-152	156-157 <sup>4</sup>	$^1\text{H}$ NMR (400 MHz, $\text{CDCl}_3$ ) $\delta$ H: 1.11 (d, 6H, $J = 7.2$ Hz, Me2), 3.81 (s, 3H, $\text{OCH}_3$ ), 3.83 (d, $J = 6.8$ Hz, 1H, NH), 3.95 (t, 1H, $J = 12.8$ Hz, CH), 6.60 (s, 1H, NH). 6.80-6.84 (m, 2H, ArH), 7.14-7.17 (m, 2H, ArH); $^{13}\text{C}$ NMR (100 MHz, $\text{CDCl}_3$ ) $\delta$ : 23.2, 42.0, 55.4, 114.5, 124.1, 131.3, 156.0, 156.6; HRMS $m/z$ : 209.0832 [ $\text{M}+1$ ]
<p><b>1-(tert-butyl)-3-(4-methoxyphenyl)urea (3h):</b></p> 	88	132-134	129-130 <sup>5</sup>	$^1\text{H}$ NMR (400 MHz, $\text{CDCl}_3$ ) $\delta$ H: 1.31 (s, 9H, Me3), 3.75 (s, 3H, $\text{OCH}_3$ ), 4.90 (s, 1H, NH), 6.60 (s, 1H, NH), 6.78-6.82 (m, 2H, ArH), 7.13-7.17 (m, 2H, ArH); $^{13}\text{C}$ NMR (100 MHz, $\text{CDCl}_3$ ) $\delta$ : 29.3, 50.5, 55.4, 114.4, 123.8, 131.6, 155.9, 156.4; HRMS $m/z$ : 223.1034 [ $\text{M}+1$ ]

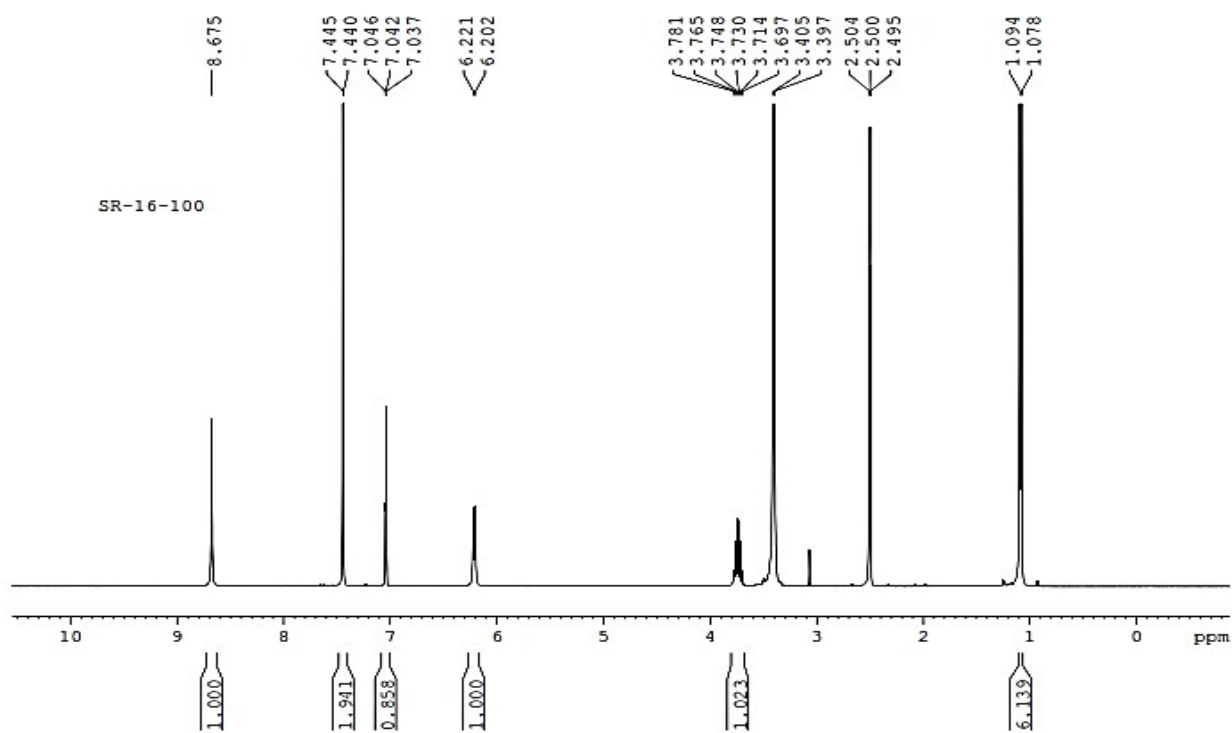
<b>1-(4-Methoxyphenyl)-3-phenylurea (3i):</b> 	80	193-194	194-196 <sup>2</sup>	<sup>1</sup> H NMR (400 MHz, CDCl <sub>3</sub> ) δH: 3.82 (s, 3H, OCH <sub>3</sub> ), 6.10 (s, 1H, NH), 6.95-6.96 (m, 2H, ArH), 7.10 (s, 1H, NH), 7.20-7.66 (m, 7H, ArH); <sup>13</sup> C NMR (100 MHz, CDCl <sub>3</sub> ) δ: 56.1, 113.4, 118.5, 121.9, 127.2, 128.6, 131.8, 138.7, 155.9, 158.4; HRMS m/z: 243.2451 [M+1]
<b>1,3-Diisopropyl urea 3j:</b> 	80	183-184	185-188 <sup>1</sup>	<sup>1</sup> H NMR (400 MHz, CDCl <sub>3</sub> ) δH: 1.11 (d, 12H, J= 6.4 Hz, Me <sub>4</sub> ), 3.80-3.86 (m, 1H, CH), 4.20 (s, 1H, NH); <sup>13</sup> C NMR (100 MHz, CDCl <sub>3</sub> ) δ: 23.4, 41.9, 157.1; HRMS m/z: 145.1514 [M+1]
<b>1-(tert-butyl)-3-isopropylurea 3k:</b> 	77	185-186	190-191 <sup>6</sup>	<sup>1</sup> H NMR (400 MHz, CDCl <sub>3</sub> ) δH: 1.09 (d, 6H, J= 6.4 Hz, Me <sub>2</sub> ), 1.29 (s, 9H, Me <sub>3</sub> ), 3.78 (t, 1H, J= 13.2 Hz, CH), 4.19 (s, 2H, NH); <sup>13</sup> C NMR (100 MHz, CDCl <sub>3</sub> ) δ: 23.4, 29.5, 41.8, 50.2, 157.0; HRMS m/z: 159.1657 [M+1]
<b>1-isopropyl--3-phenylurea 3l:</b> 	79	155-157	155-156 <sup>1</sup>	<sup>1</sup> H NMR (400 MHz, CDCl <sub>3</sub> ) δH: 1.11 (d, 6H, J= 6.8 Hz, Me <sub>2</sub> ), 3.91-3.97 (m, 1H, CH), 4.22 (s, 1H, NH), 6.97-7.00 (m, 1H, ArH), 7.19-7.25 (m, 4H, ArH), 7.27 (d, 1H, J= 1.2 Hz, NH); <sup>13</sup> C NMR (100 MHz, CDCl <sub>3</sub> ) δ: 23.1, 42.0, 120.3, 123.1, 129.0, 138.9, 155.7; HRMS m/z: 179.1351 [M+1]
<b>1-(tert-butyl)-3-(3,4-dimethylphenyl)urea 3m:</b> 	70	136-137	--	<sup>1</sup> H NMR (400 MHz, CDCl <sub>3</sub> ) δH: 1.31 (s, 1H, NH), 1.33 (s, 9H, Me <sub>3</sub> ), 2.18 (s, 6H, ArMe <sub>2</sub> ), 6.49 (s, 1H, NH), 6.94-6.96 (m, 1H, ArH), 7.01 (d, 1H, J= 7.6 Hz, ArH), 7.05 (d, 1H, J= 1.6 Hz, ArH); <sup>13</sup> C NMR (100 MHz, CDCl <sub>3</sub> ) δ: 19.0, 19.7, 29.3, 50.6, 118.8, 122.8, 130.2, 132.0, 136.4, 137.5, 155.4; HRMS m/z: 221.1787 [M+1]
<b>1-(tert-butyl)-3-(3,5-dimethylphenyl)urea 3n:</b> 	68	140-141	--	<sup>1</sup> H NMR (400 MHz, CDCl <sub>3</sub> ) δH: 1.31 (s, 2H, NH), 1.34 (s, 9H, Me <sub>3</sub> ), 2.23 (s, 6H, ArMe <sub>2</sub> ), 6.65 (s, 1H, ArH), 6.88 (s, 2H, ArH); <sup>13</sup> C NMR (100 MHz, CDCl <sub>3</sub> ) δ: 21.2, 29.3, 50.5, 118.2, 124.9, 138.7, 138.9, 155.2; HRMS m/z: 221.1787 [M+1]
<b>1-(tert-butyl)-3-(2,4-dimethylphenyl)urea 3o</b> 	66	166-167	168 -170 <sup>7</sup>	<sup>1</sup> H NMR (400 MHz, CDCl <sub>3</sub> ) δH: 1.30 (s, 9H, Me <sub>3</sub> ), 2.20 (s, 3H, ArMe), 2.27 (s, 3H, ArMe), 4.70 (s, 1H, NH), 6.04 (s, 1H, NH), 6.97 (t, 2H, J=15.6 Hz, ArH), 7.23(t, 1H, J=15.2 Hz, ArH); <sup>13</sup> C NMR (100 MHz, CDCl <sub>3</sub> ) δ: 17.7, 20.7, 29.3, 50.1, 125.5, 127.5, 131.5, 132.5, 133.7, 135.3, 155.9; HRMS m/z: 221.1201 [M+1]

<b>1-(tert-butyl)-3-(2,6-dimethylphenyl)urea 3p</b> 	60	162-163	169-171 <sup>8</sup>	<sup>1</sup> H NMR (400 MHz, CDCl <sub>3</sub> ) δH: 1.34 (s, 9H, Me <sub>3</sub> ), 2.12 (s, 6H, ArMe <sub>2</sub> ), 6.62 (s, 2H, NH), 7.16-7.19 (m, 3H, ArH); <sup>13</sup> C NMR (100 MHz, CDCl <sub>3</sub> ) δ: 18.3, 23.4, 42.1, 127.3, 128.4, 134.4, 137.4, 156.4; HRMS m/z: 221.1215 [M+1]
<b>1-(2,6-dimethylphenyl)-3-isopropylurea 3q</b> 	61	199-203	204 -205 <sup>9</sup>	<sup>1</sup> H NMR (400 MHz, CDCl <sub>3</sub> ) δH: 1.05 (d, 6H, J= 6.8 Hz, Me <sub>2</sub> ), 2.26 (s, 6H, ArMe <sub>2</sub> ), 3.82 (m, 2H, CH and NH), 5.87 (s, 1H, NH), 7.08-7.13 (m, 3H, ArH); <sup>13</sup> C NMR (100 MHz, CDCl <sub>3</sub> ) δ: 18.1, 23.2, 41.9, 127.7, 128.6, 134.0, 137.2, 156.0; HRMS m/z: 207.1066 [M+1]
<b>1-(2,6-dimethylphenyl)-3-phenylurea 3r</b> 	58	241-244	247-248 <sup>10</sup>	<sup>1</sup> H NMR (400 MHz, CDCl <sub>3</sub> ) δH: 2.11 (s, 6H, ArMe <sub>2</sub> ), 6.58 (s, 1H, NH), 7.17-7.22 (m, 4H, ArH), 7.24 (s, 1H, NH), 7.41-7.66 (m, 4H, ArH); <sup>13</sup> C NMR (100 MHz, CDCl <sub>3</sub> ) δ: 17.4, 121.1, 126.7, 127.3, 128.1, 128.8, 133.5, 136.2, 138.9, 153.4; HRMS m/z: 241.1248 [M+1].

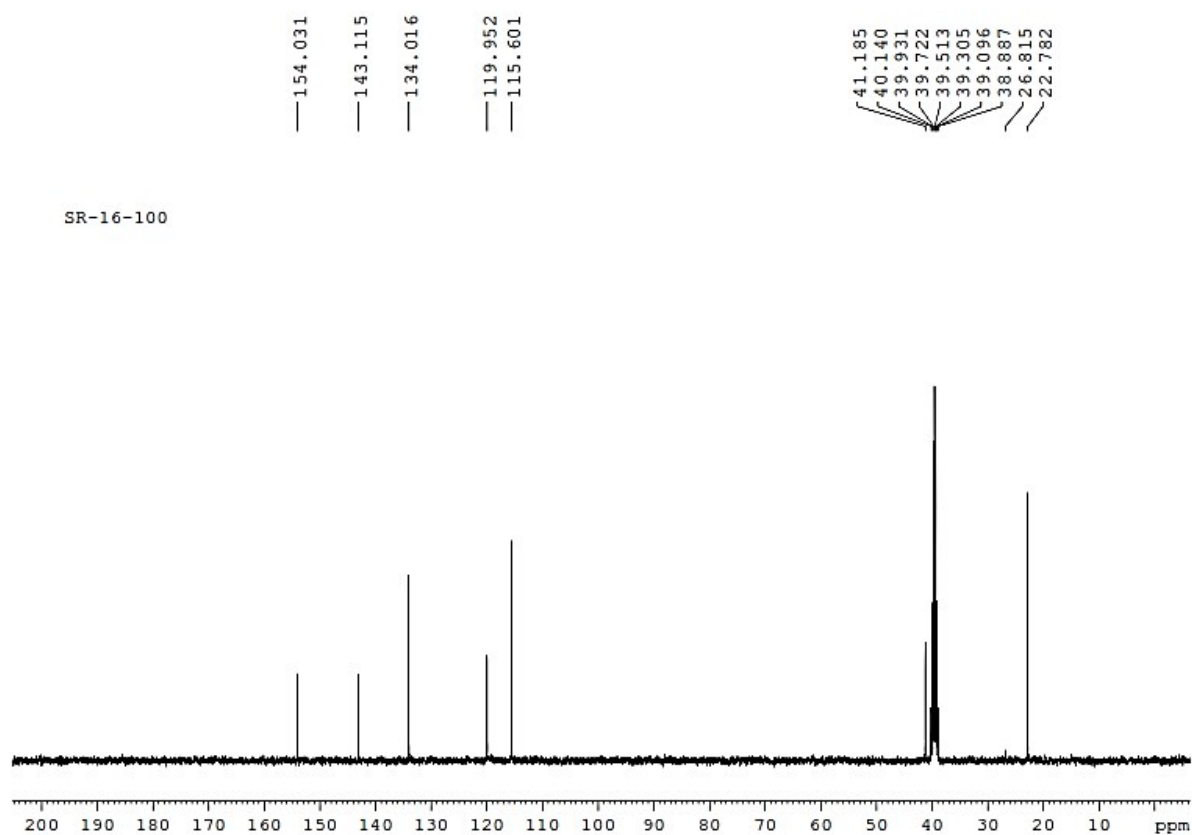
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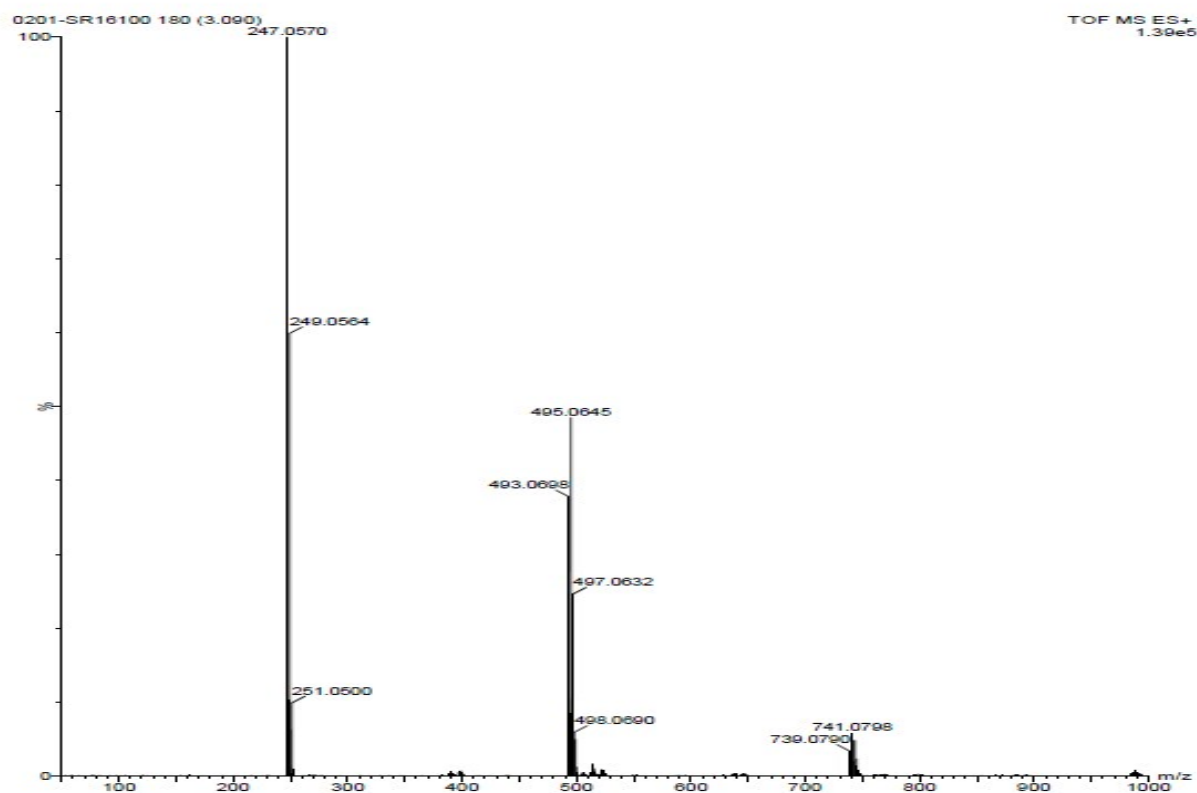
**<sup>1</sup>H, <sup>13</sup>C & Mass spectra of selected compounds**



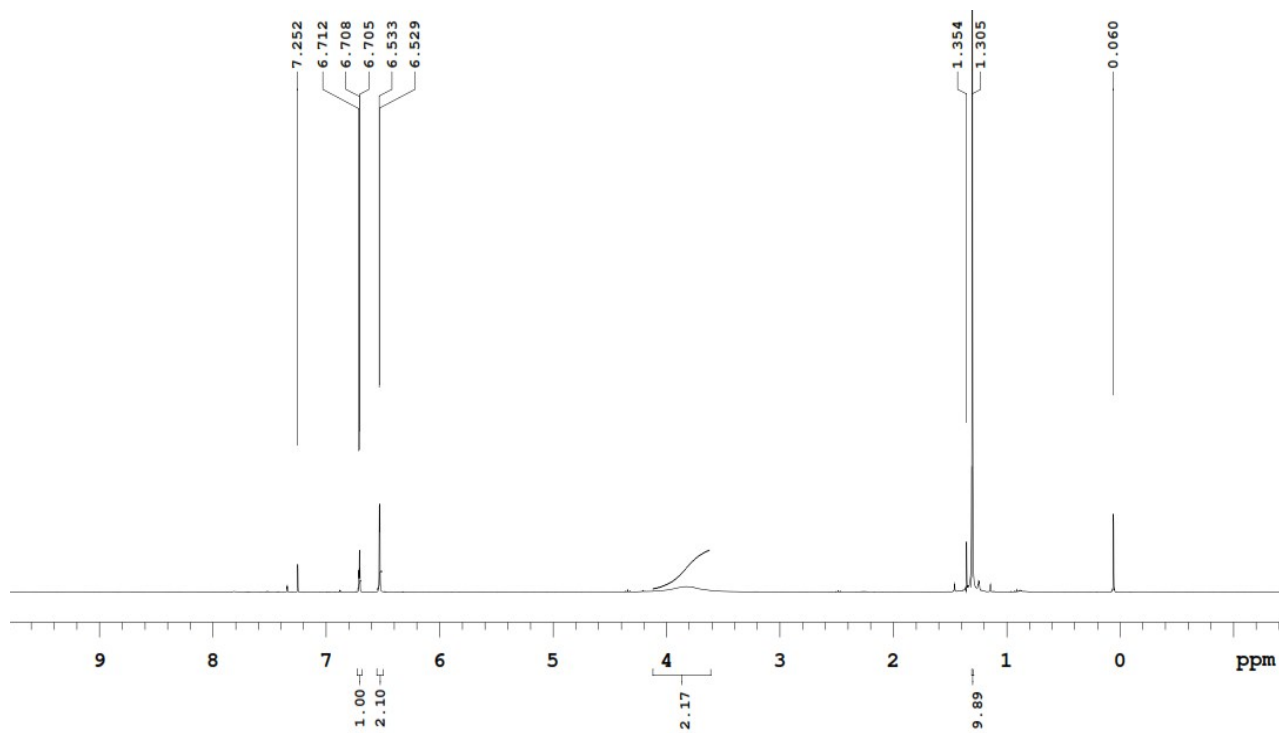
**<sup>1</sup>H NMR spectra of 1-(3,5-dichlorophenyl)-3-isopropylurea 3a:**



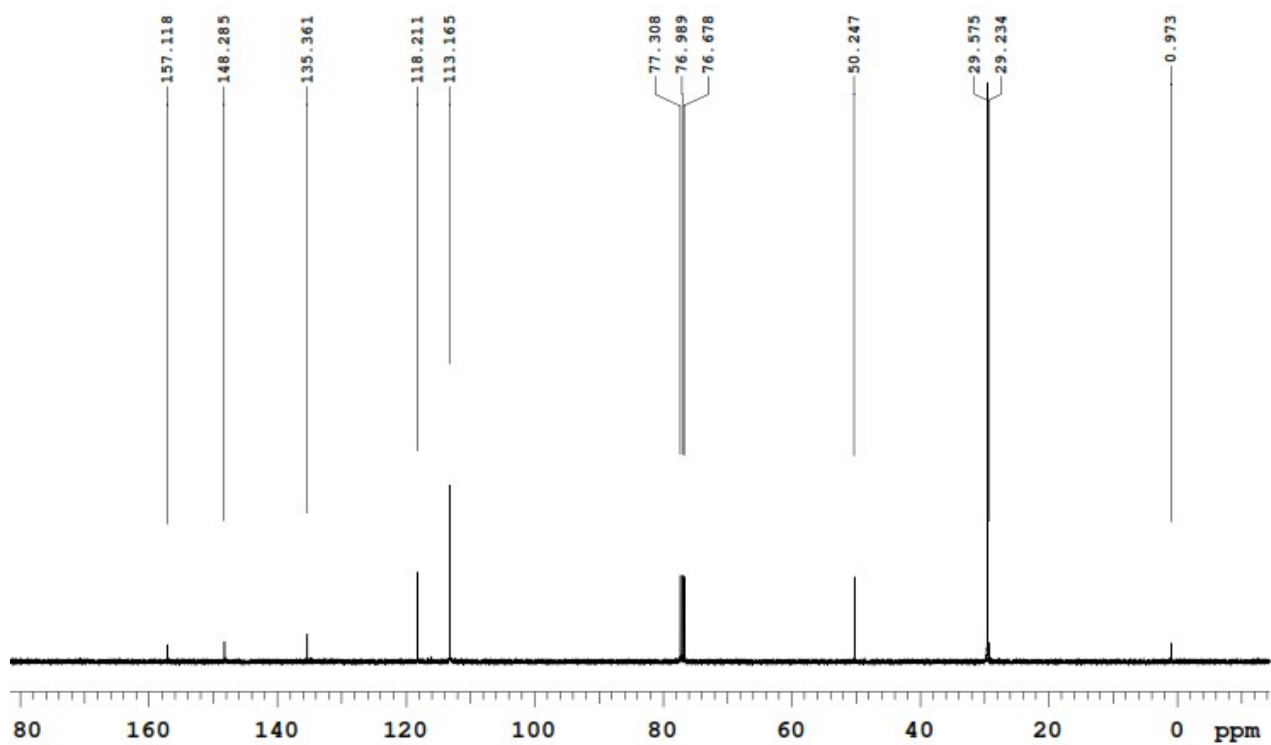
**<sup>13</sup>C NMR spectra of 1-(3,5-dichlorophenyl)-3-isopropylurea 3a**



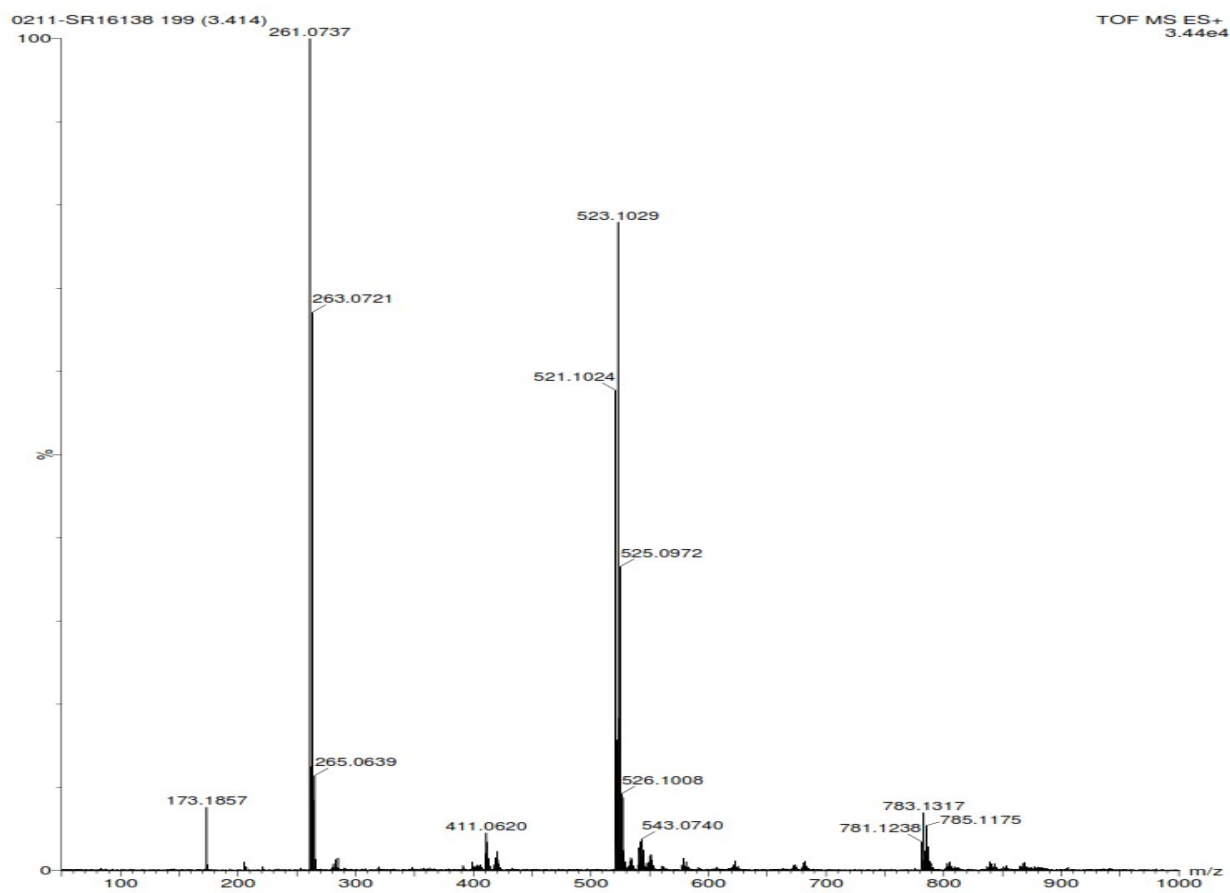
**Mass spectra of 1-(3,5-dichlorophenyl)-3-isopropylurea 3a:**



**<sup>1</sup>H NMR spectra of 1-(tert-butyl)-3-(3,5-dichlorophenyl)urea 3b:**



***<sup>13</sup>C NMR spectra of 1-(tert-butyl)-3-(3,5-dichlorophenyl)urea 3b:***



***Mass spectra of 1-(tert-butyl)-3-(3,5-dichlorophenyl)urea 3b:***

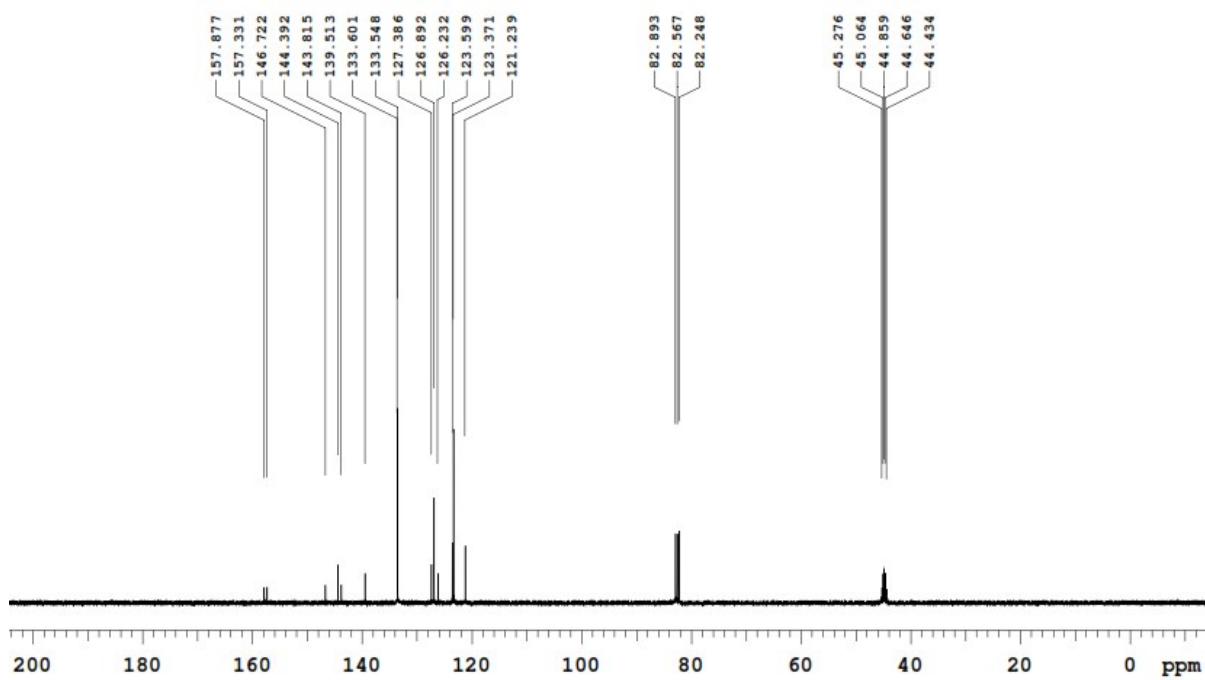
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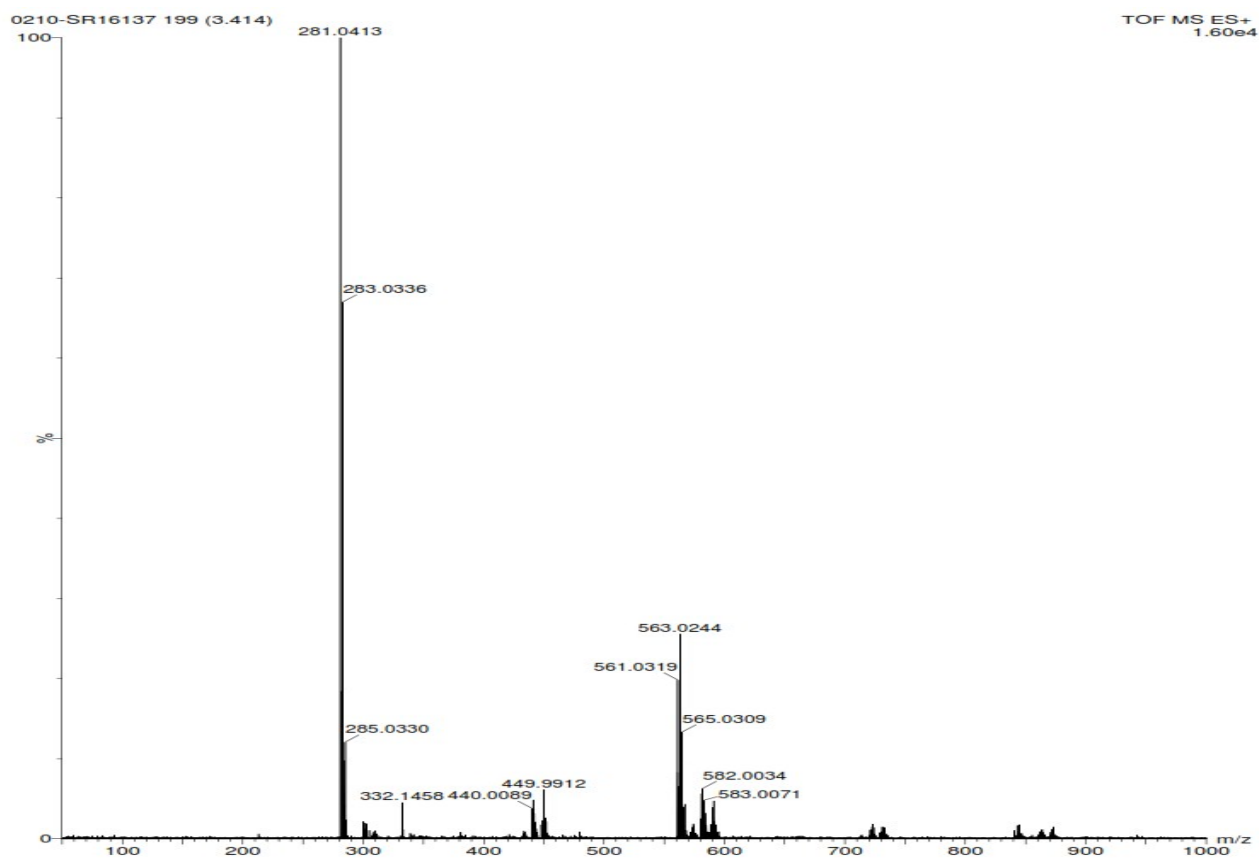


<sup>1</sup>H NMR spectra of 1-(3,5-dichlorophenyl)-3-phenylurea (3c)

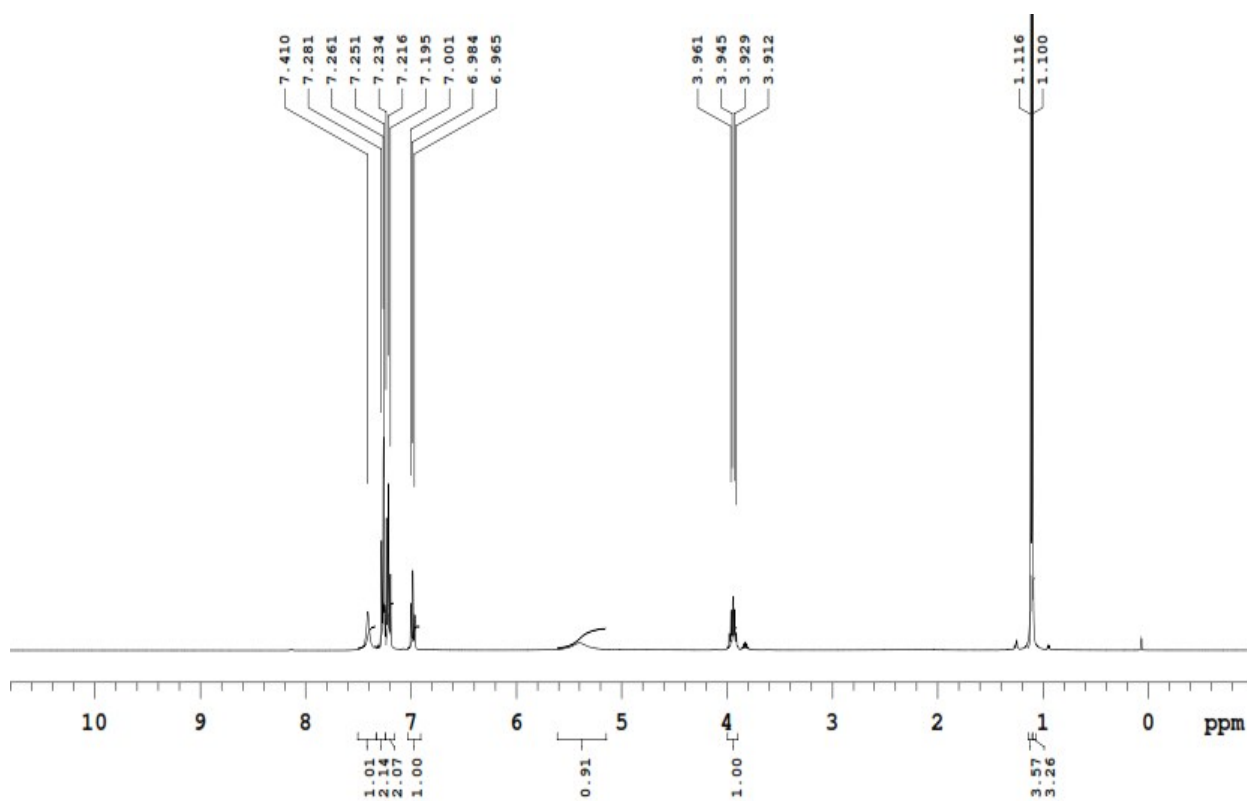


<sup>13</sup>C NMR spectra of 1-(3,5-dichlorophenyl)-3-phenylurea (3c)

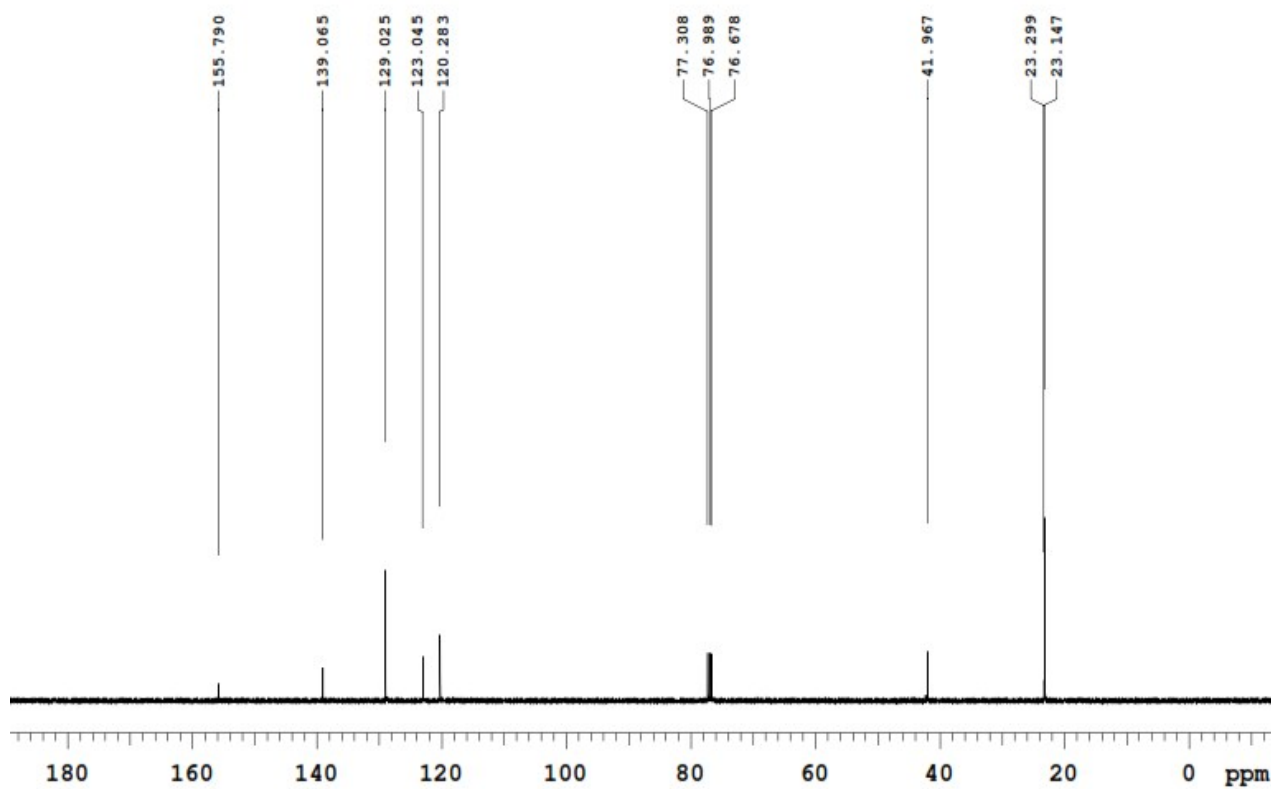




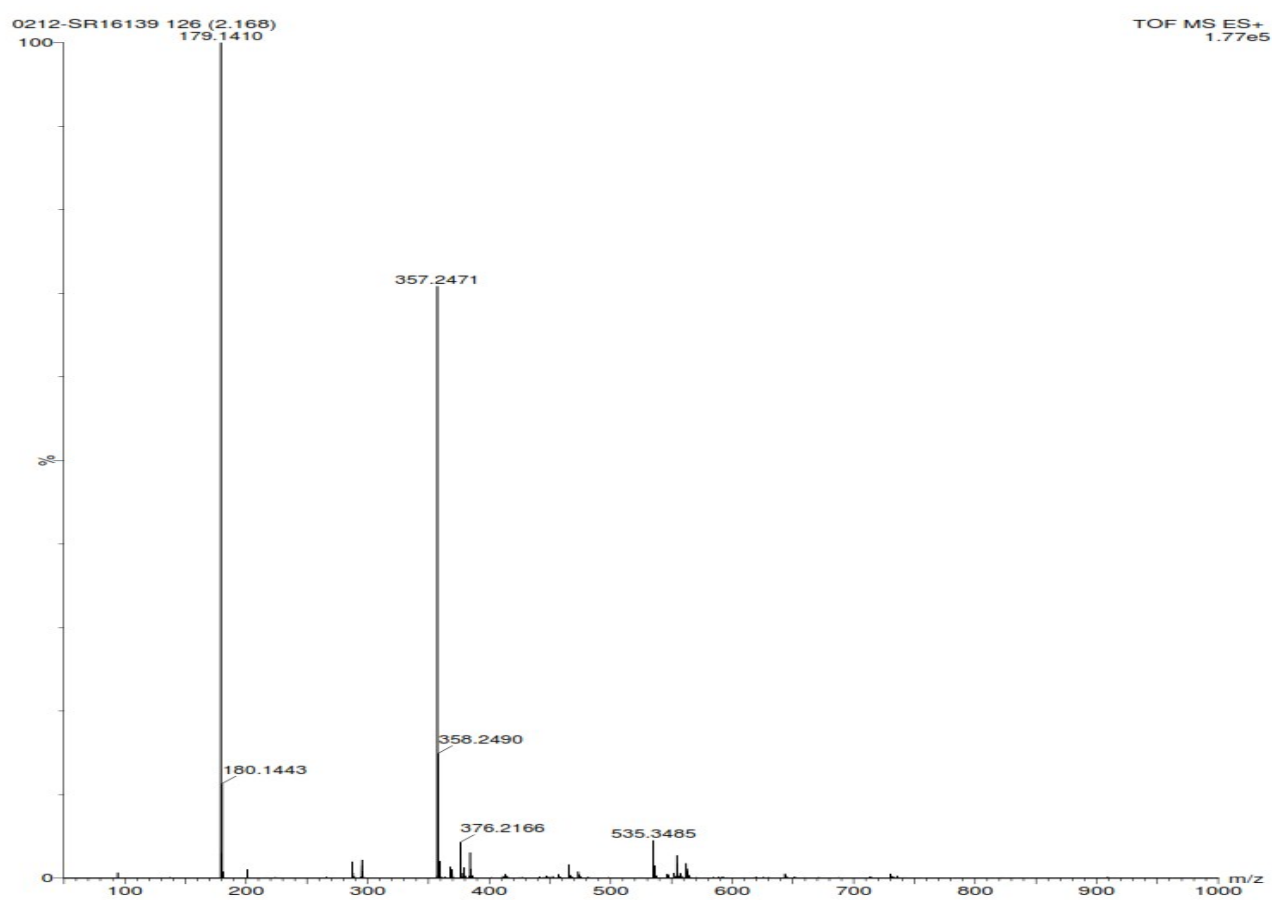
Mass spectra of 1-(3,5-dichlorophenyl)-3-phenylurea (3c)



<sup>1</sup>H NMR spectra of 1-isopropyl-3-phenylurea 3d



<sup>13</sup>C NMR spectra of 1-isopropyl-3-phenylurea 3d

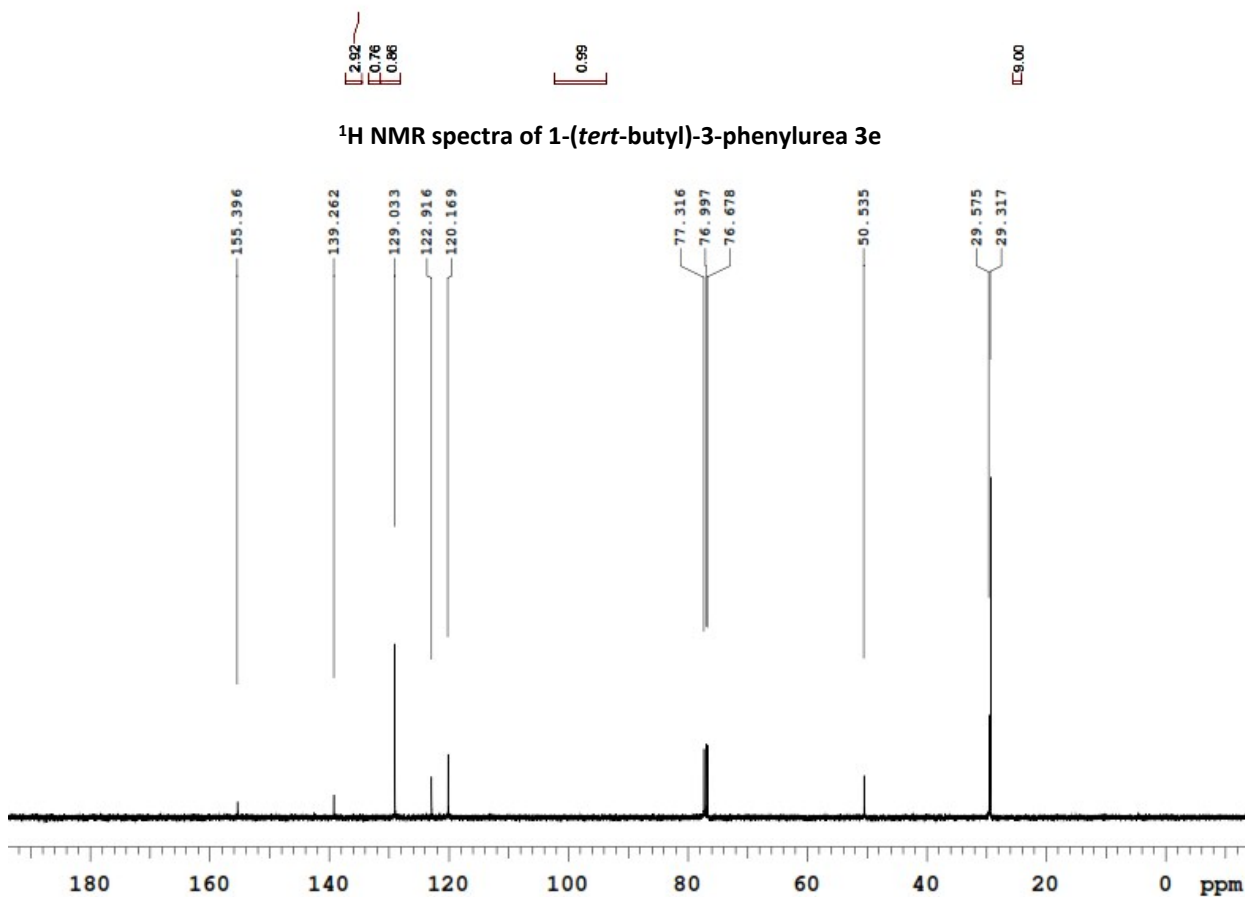


Mass spectra of 1-isopropyl-3-phenylurea 3d

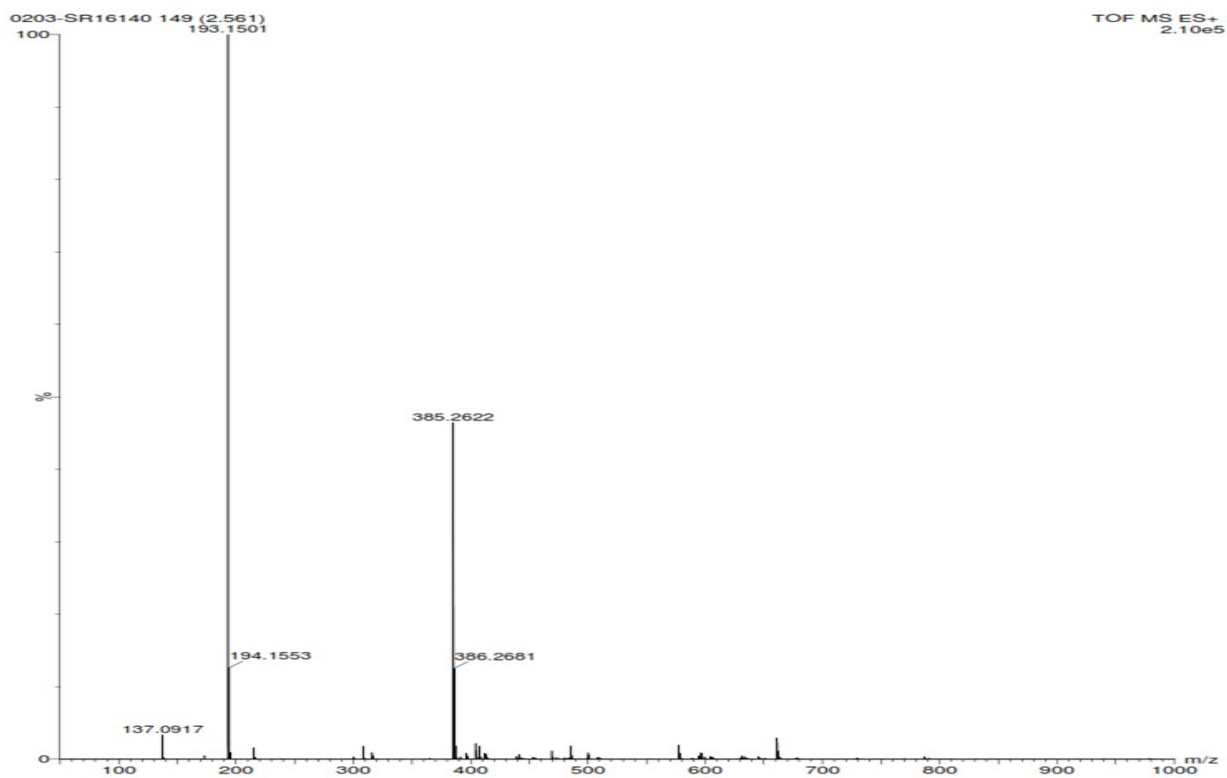
SR16140-1H



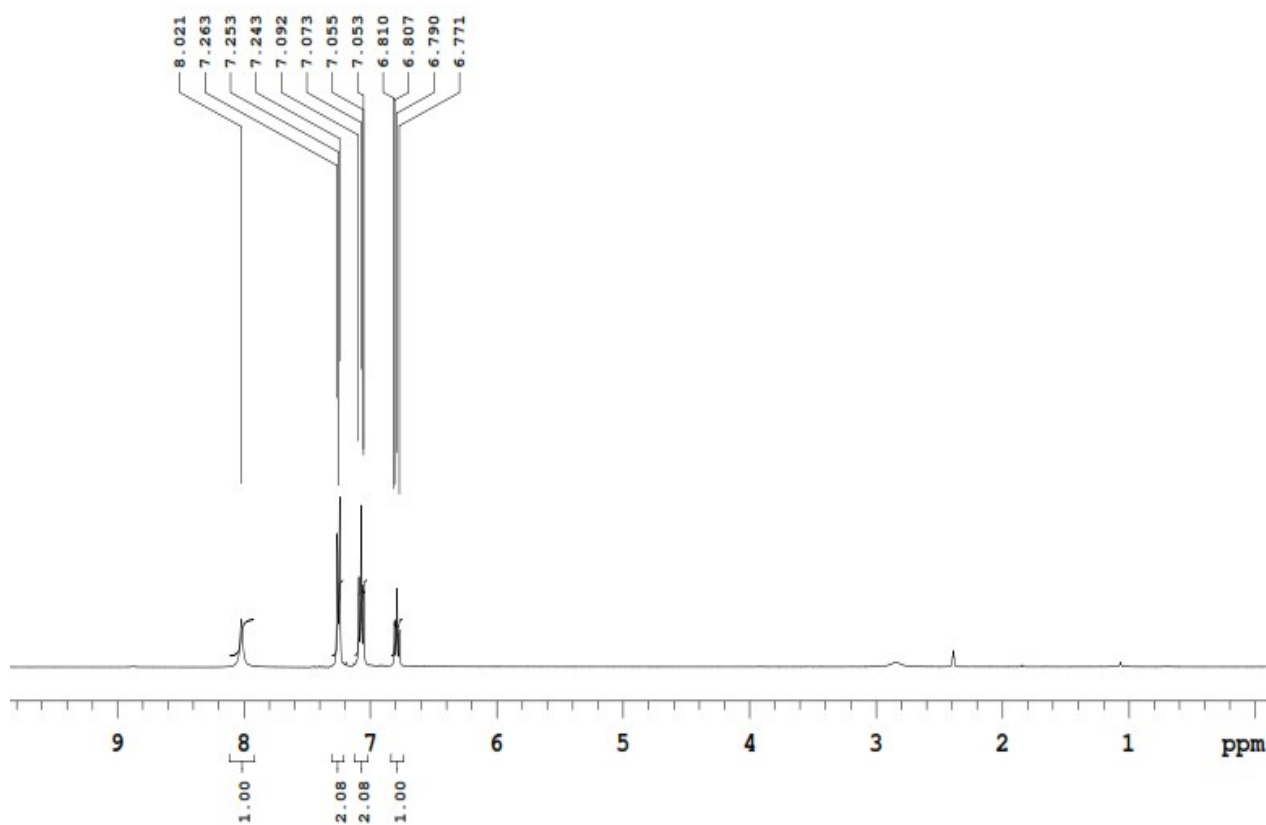
<sup>1</sup>H NMR spectra of 1-(*tert*-butyl)-3-phenylurea 3e



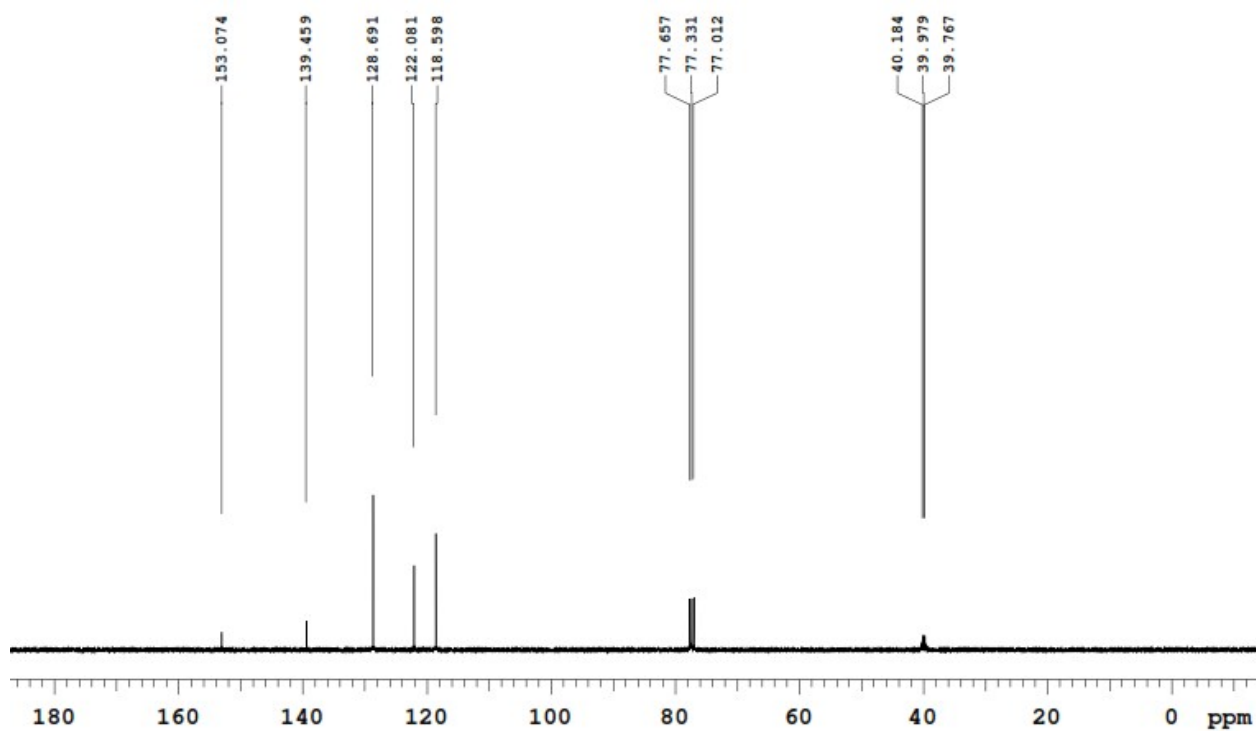
<sup>13</sup>C NMR spectra of 1-(*tert*-butyl)-3-phenylurea 3e



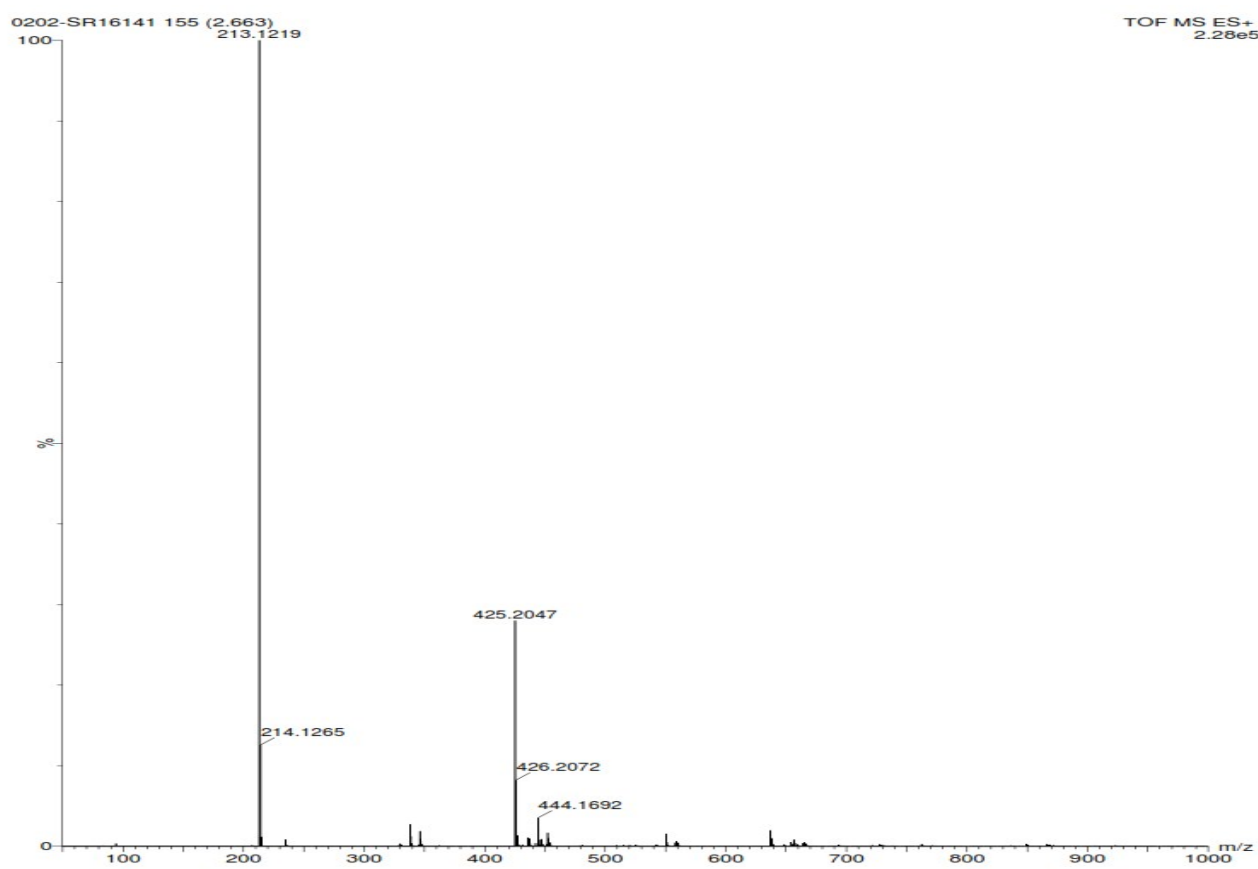
Mass spectra of 1-(*tert*-butyl)-3-phenylurea 3e



<sup>1</sup>H NMR spectra of 1,3-Diphenylurea 3f:

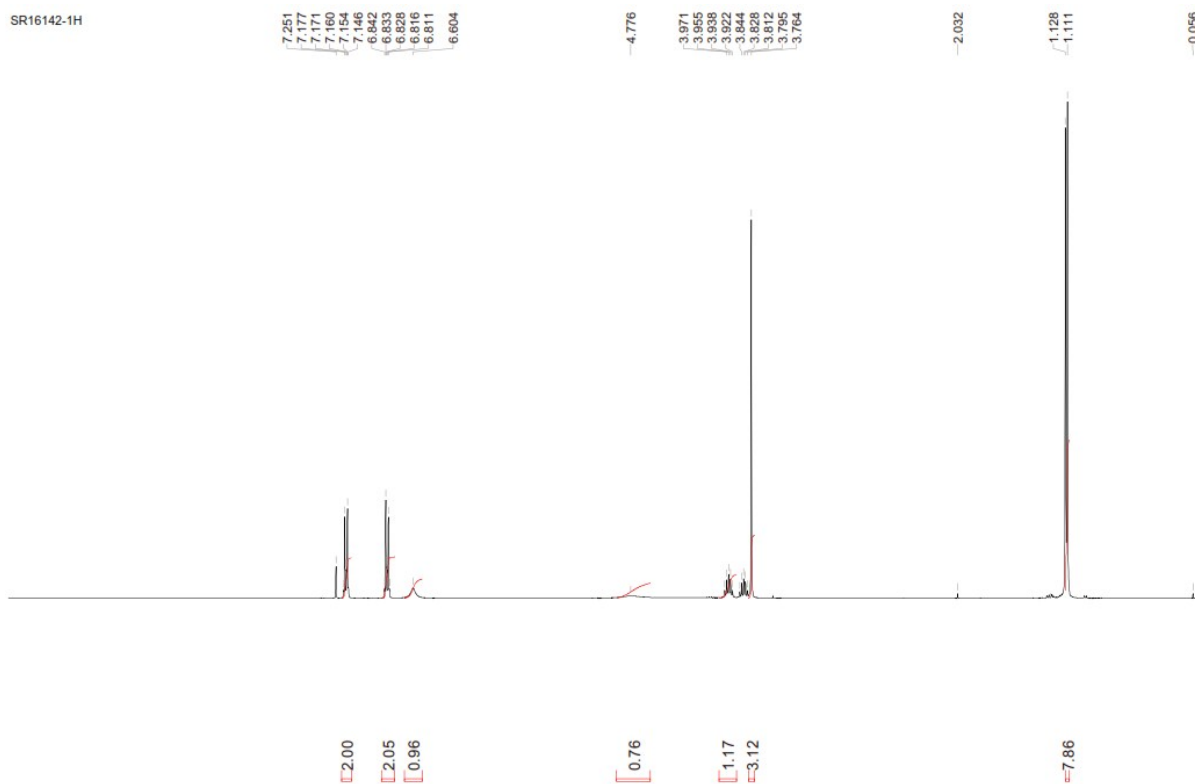


<sup>13</sup>C NMR spectra of 1,3-Diphenylurea 3f:

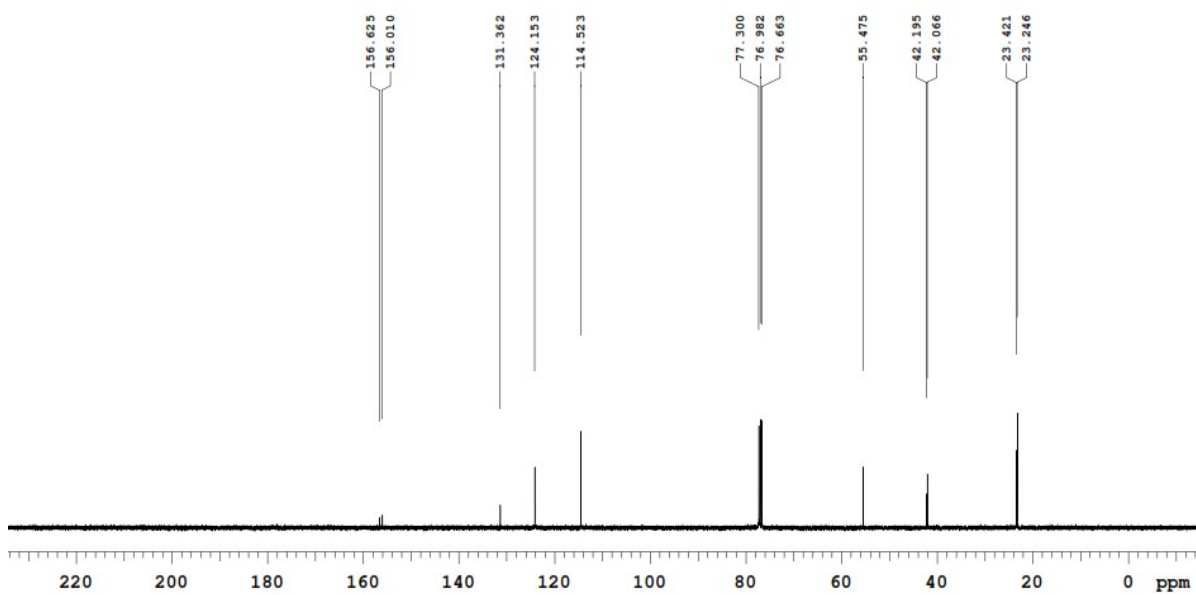


Mass spectra of 1,3-Diphenylurea 3f:

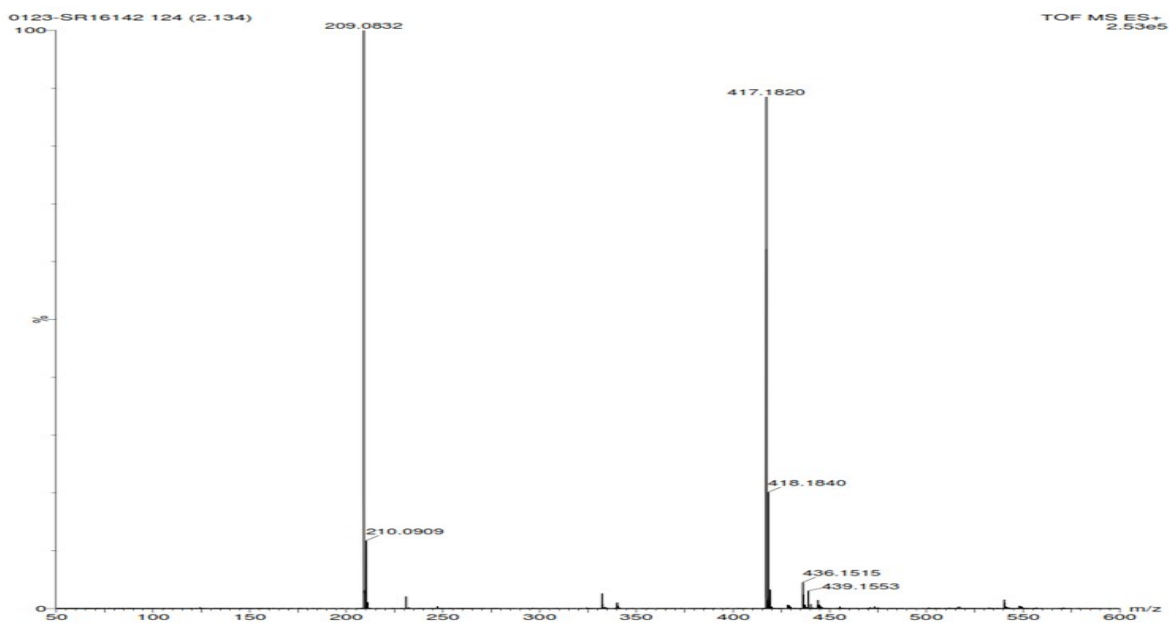
SR16142-1H



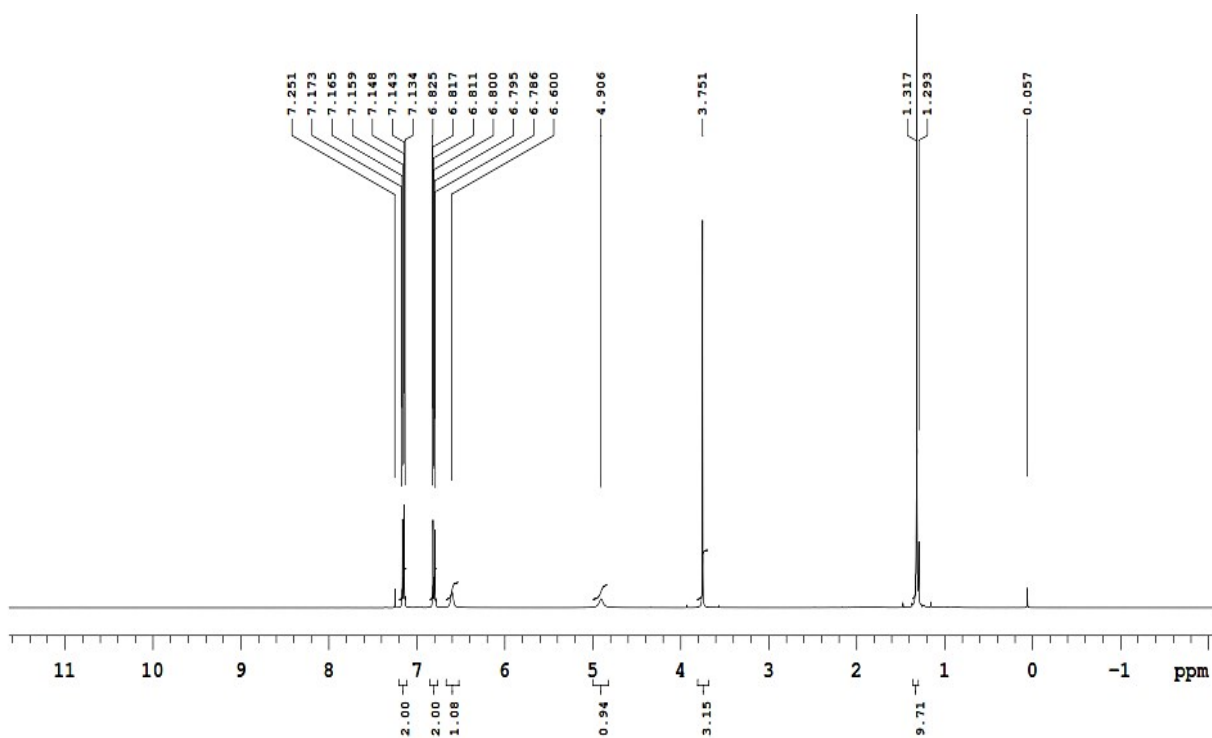
<sup>1</sup>H NMR spectra of 1-isopropyl-3-(4-methoxy phenyl)urea 3g



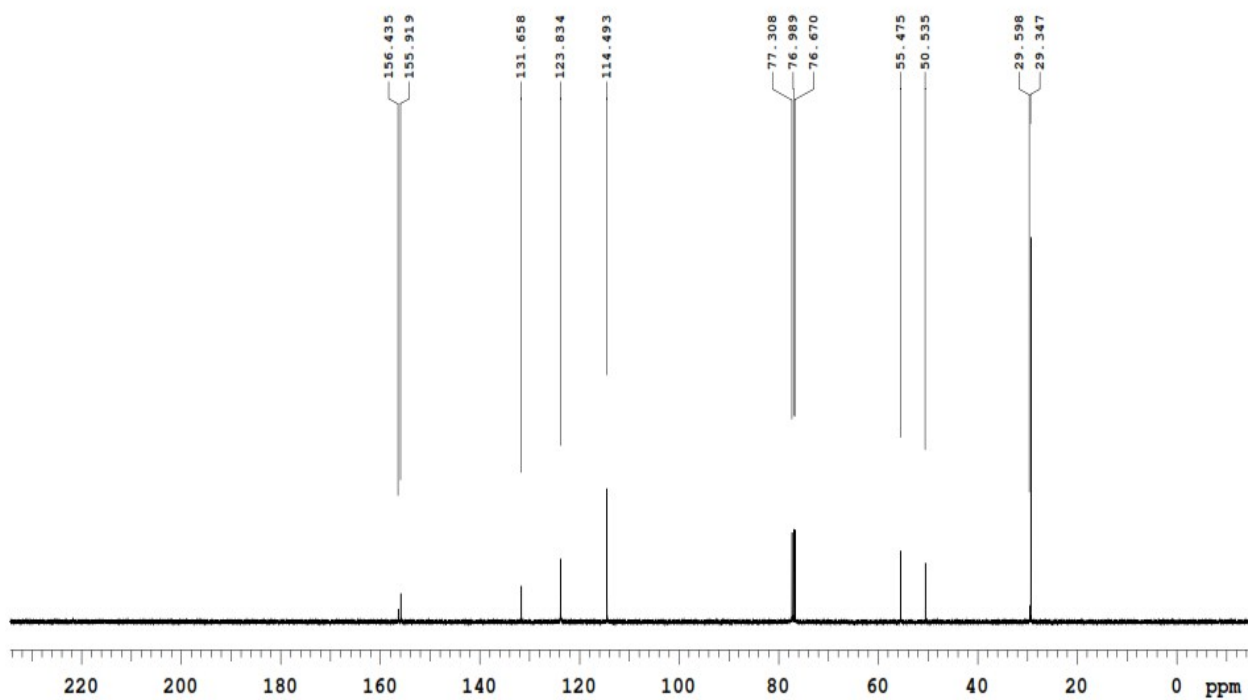
<sup>13</sup>C NMR spectra of 1-isopropyl-3-(4-methoxy phenyl)urea 3g



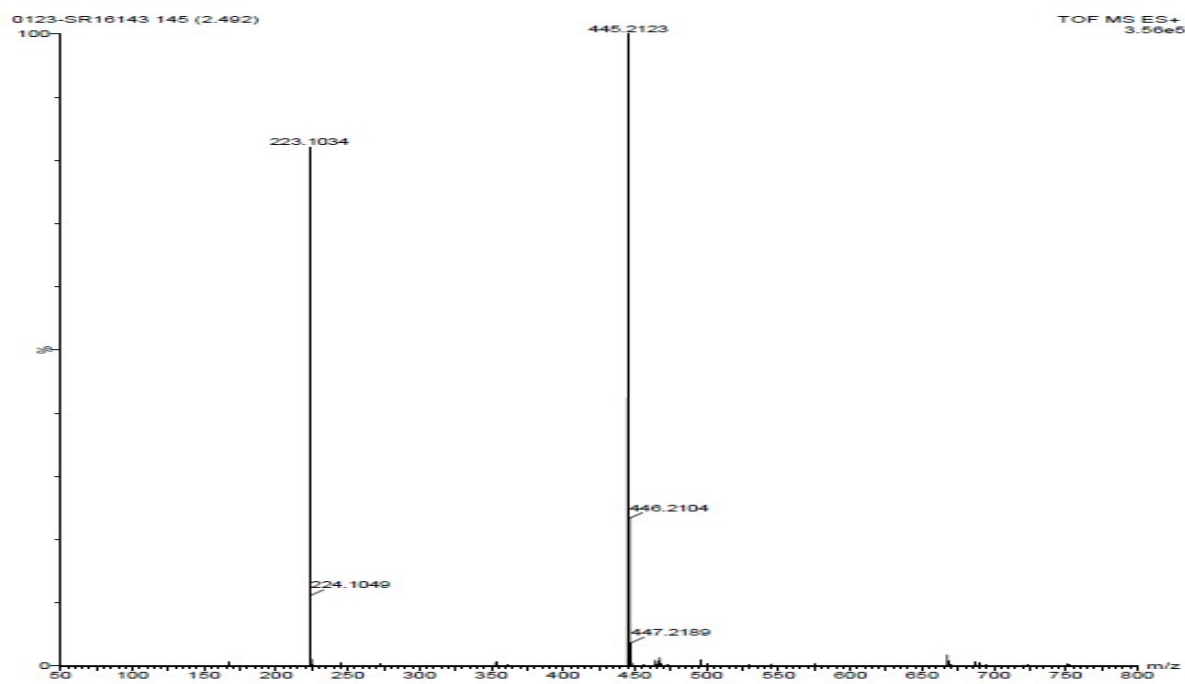
Mass spectra of 1-isopropyl-3-(4-methoxy phenyl)urea 3g



<sup>1</sup>H NMR spectra of 1-(*tert*-butyl)-3-(4-methoxy phenyl)urea 3h:

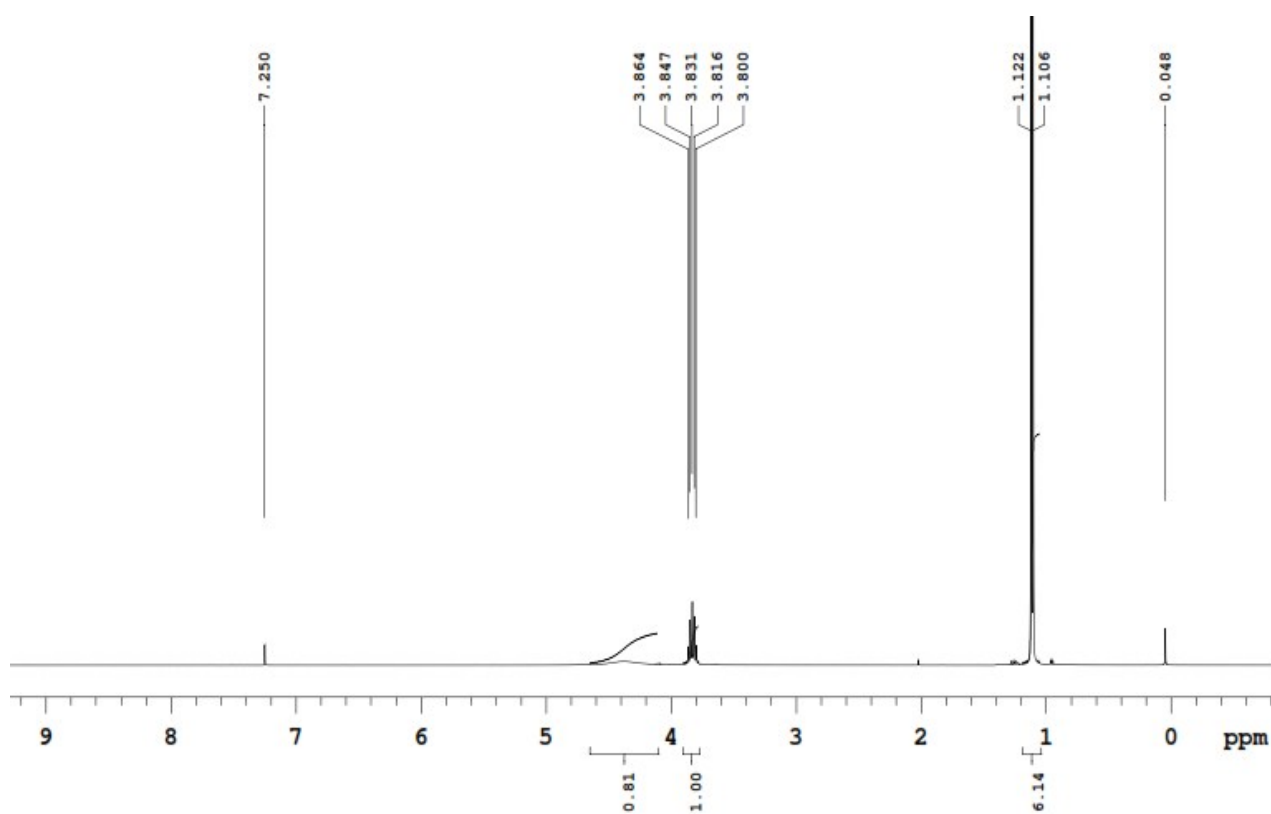


<sup>13</sup>C NMR spectra of 1-(*tert*-butyl)-3-(4-methoxy phenyl)urea 3h:

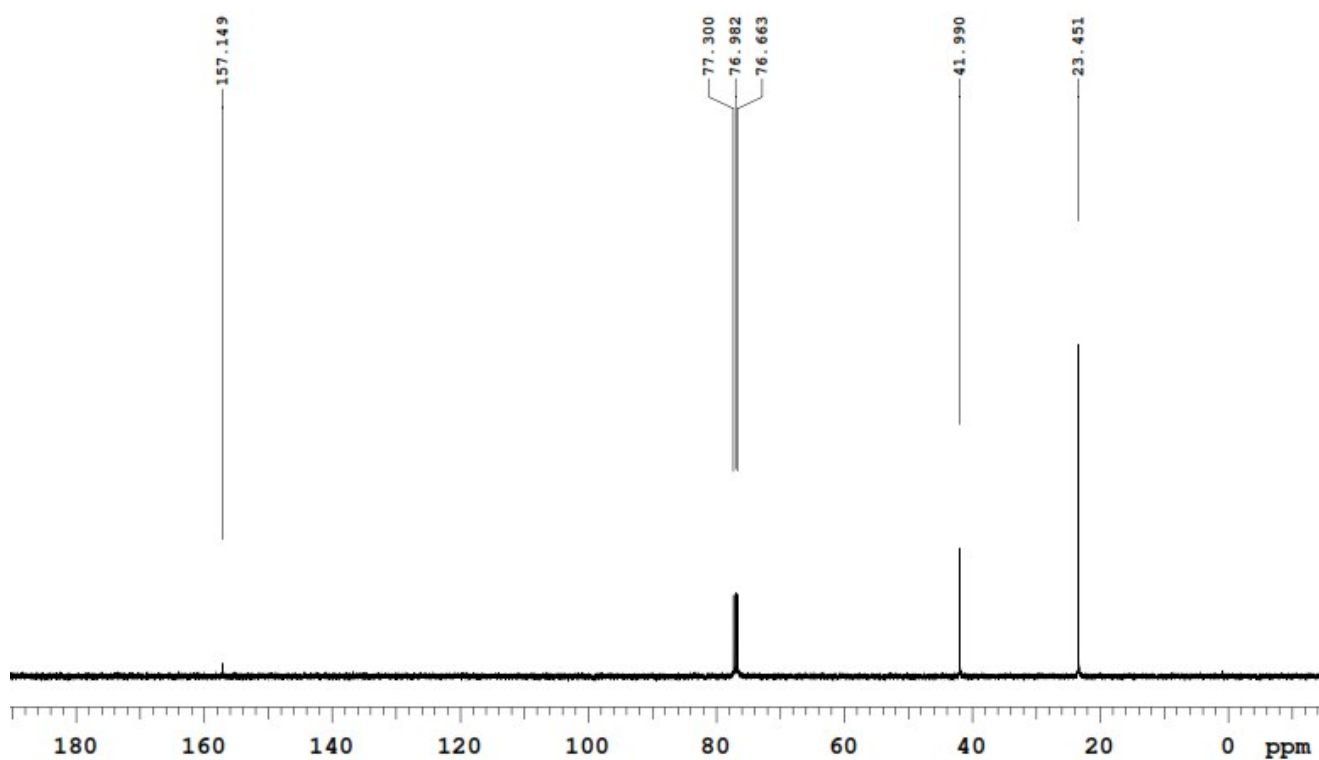


Mass spectra of 1-(*tert*-butyl)-3-(4-methoxy phenyl)urea 3h:

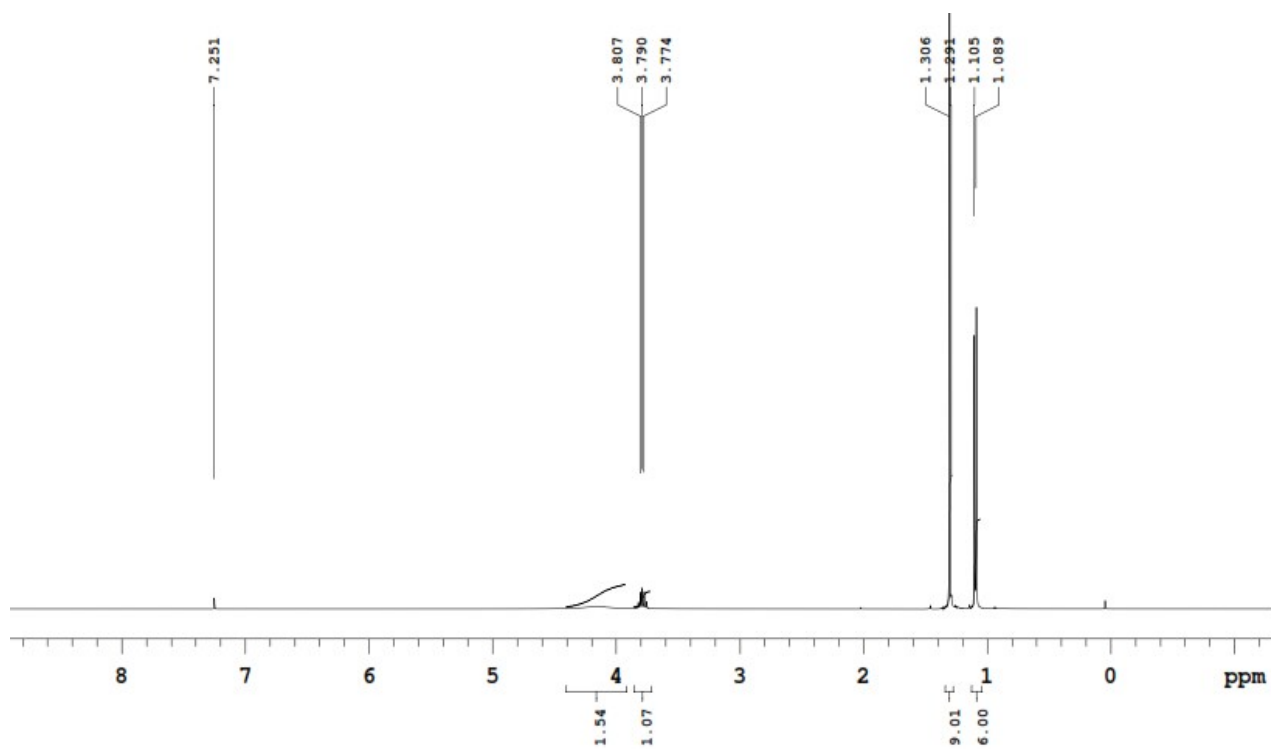




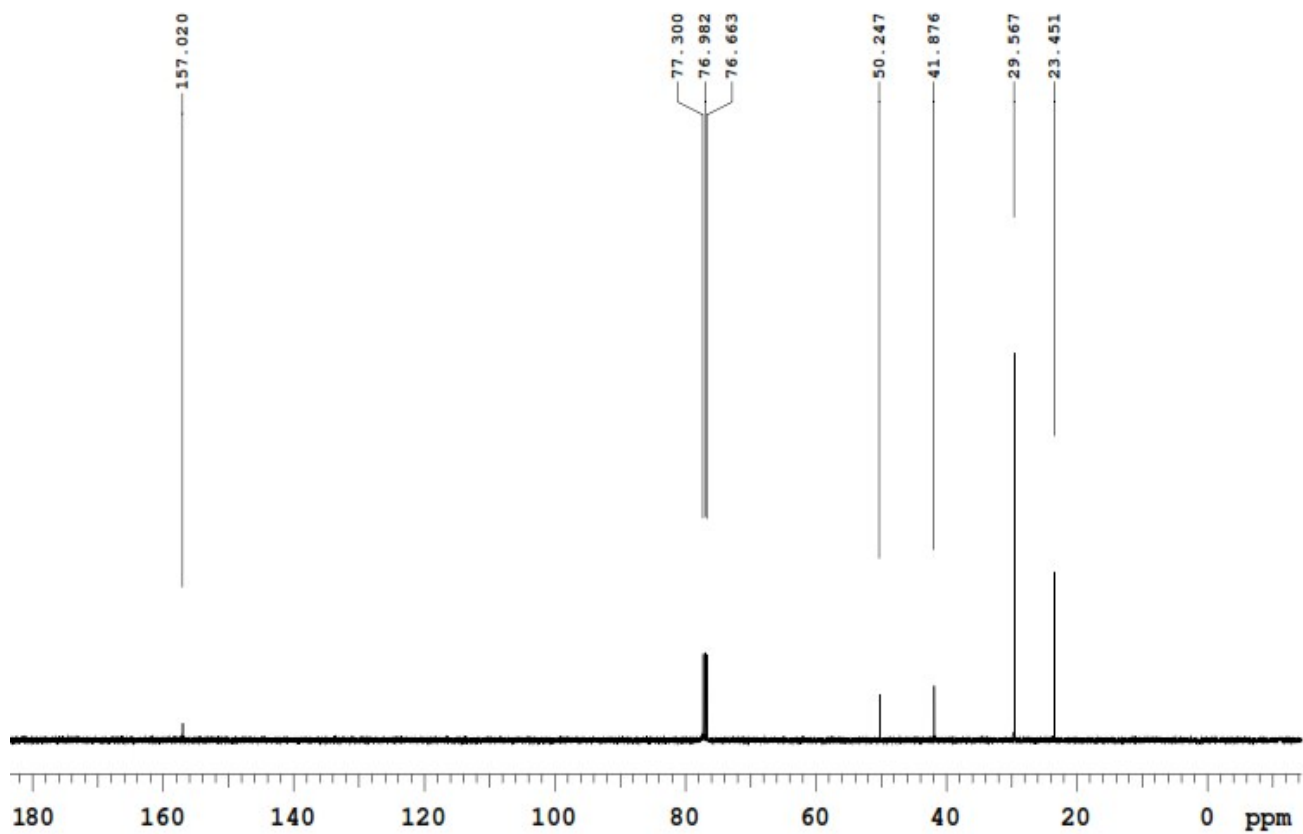
<sup>1</sup>H NMR spectra of 1,3-Diisopropyl urea 3j:



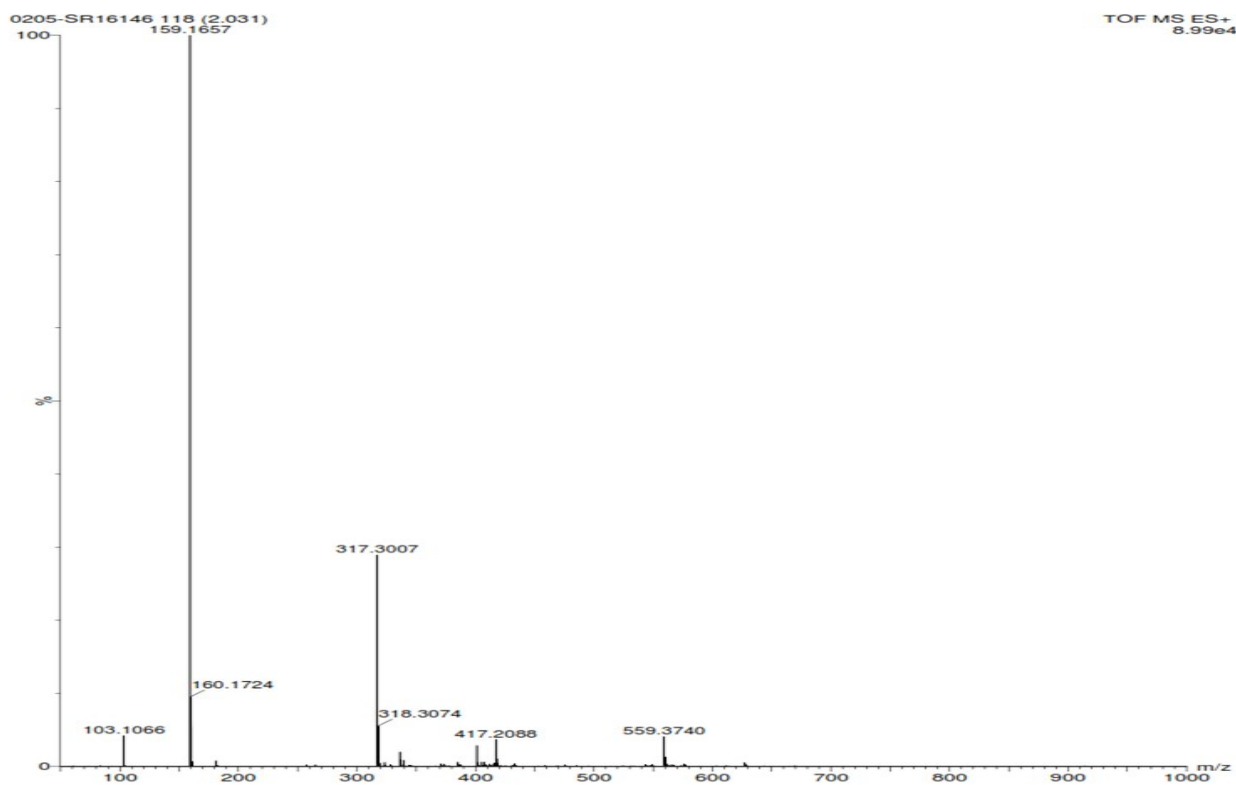
<sup>13</sup>C NMR spectra of 1,3-Diisopropyl urea 3j:



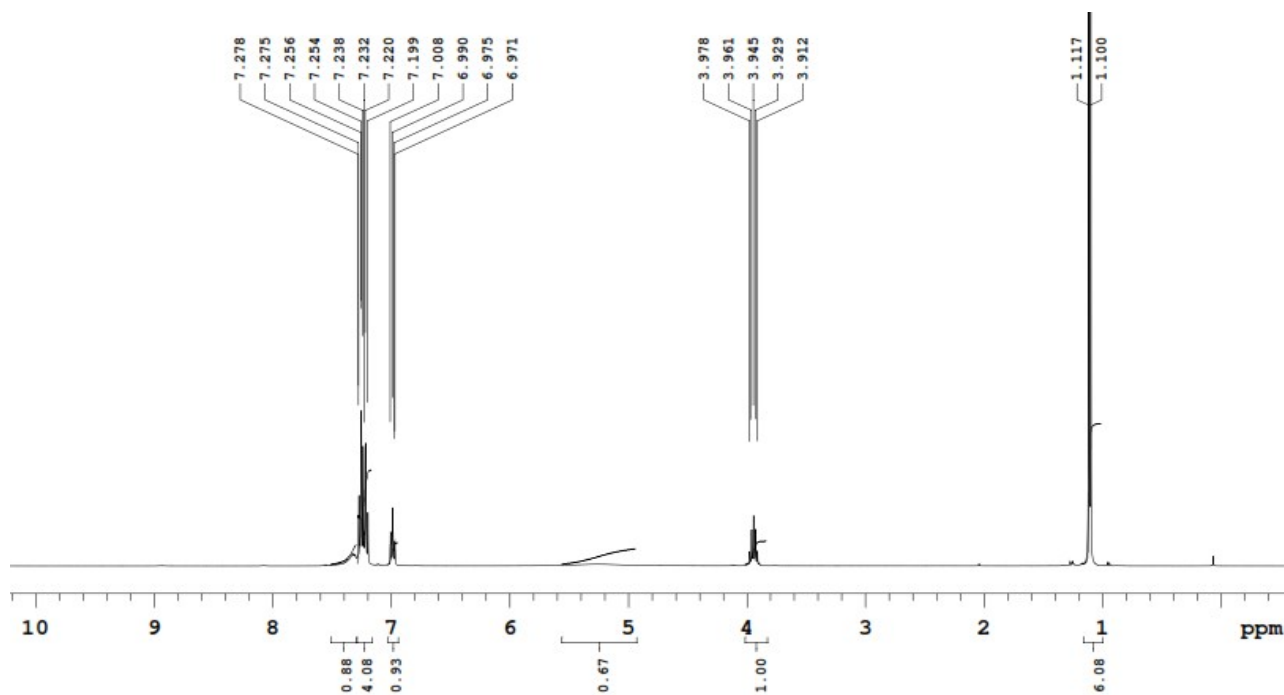
<sup>1</sup>H NMR spectra of 1-(*tert*-butyl)-3-isopropylurea 3k:



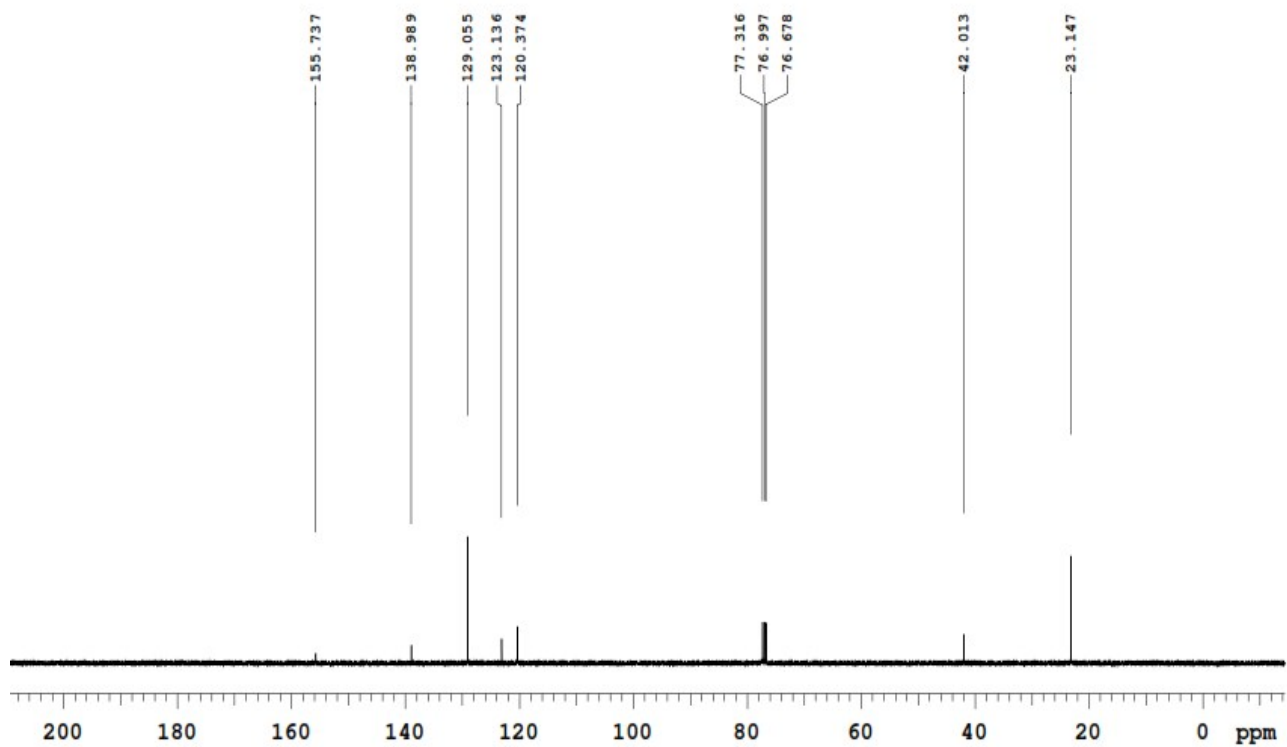
<sup>13</sup>C NMR spectra of 1-(*tert*-butyl)-3-isopropylurea 3k:



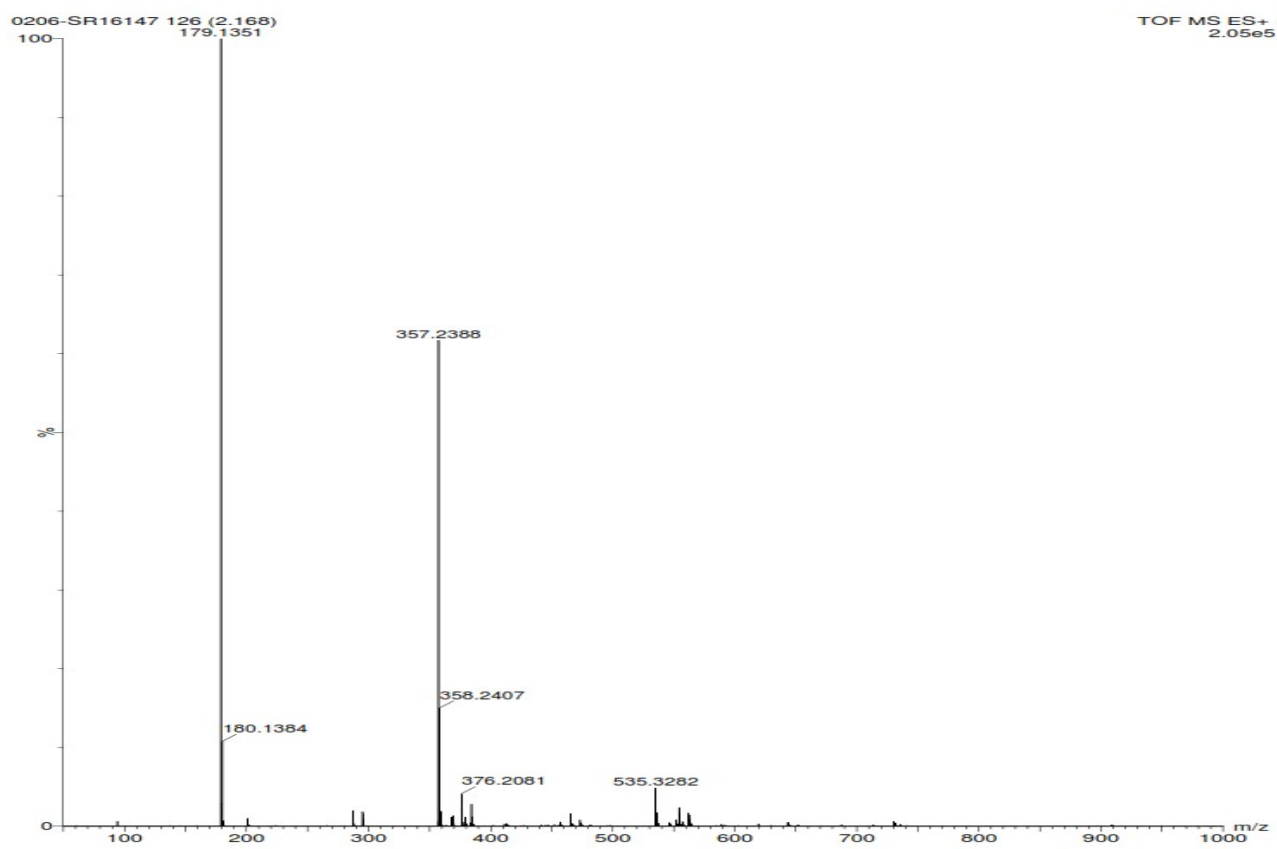
Mass spectra of 1-(*tert*-butyl)-3-isopropylurea 3k:



<sup>1</sup>H NMR spectra of 1-isopropyl-3-phenylurea 3l:

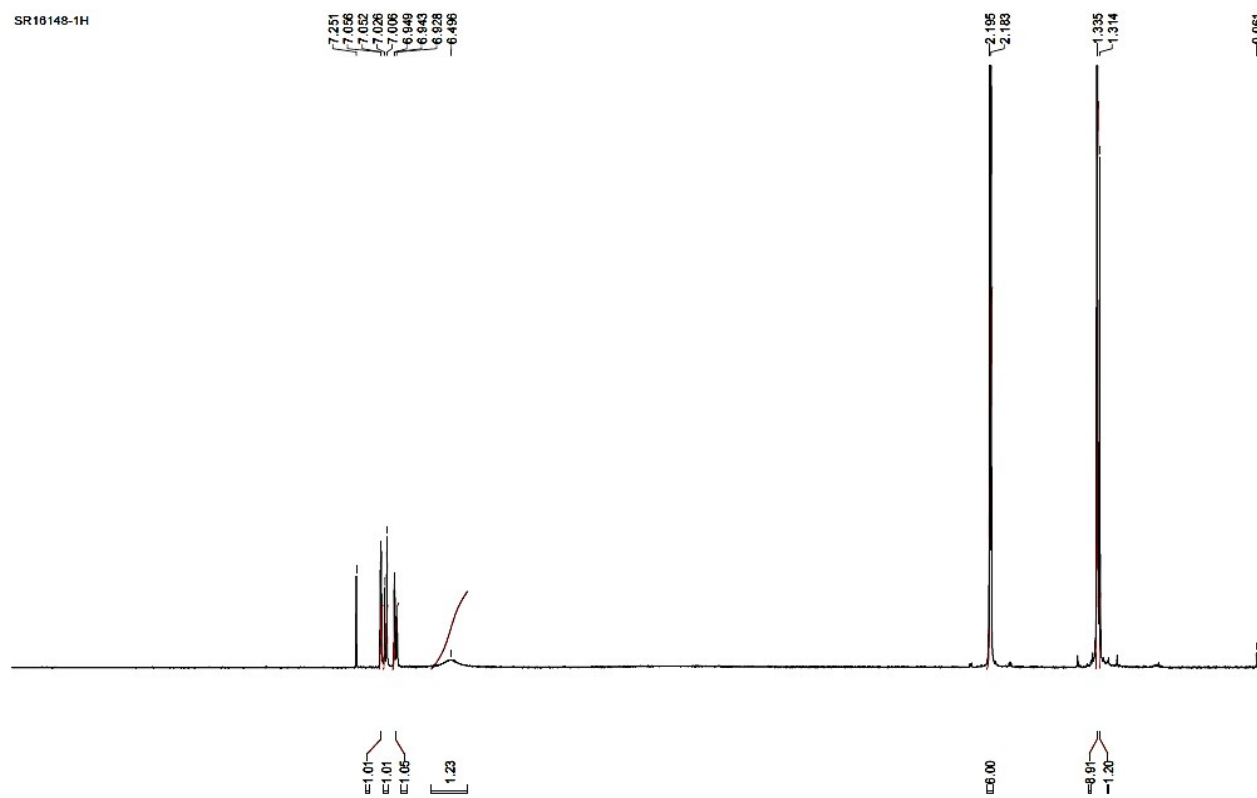


<sup>13</sup>C NMR spectra of 1-isopropyl--3-phenylurea 3I:

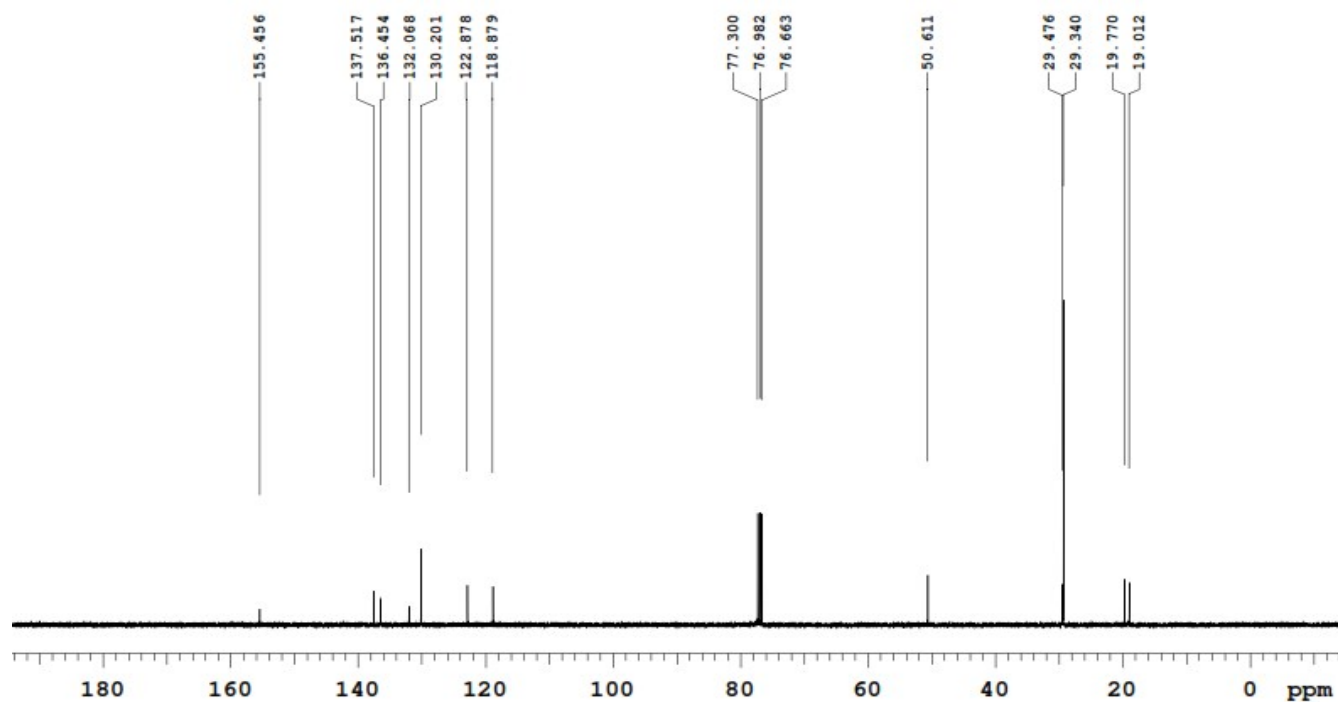


Mass spectra of 1-isopropyl--3-phenylurea 3I:

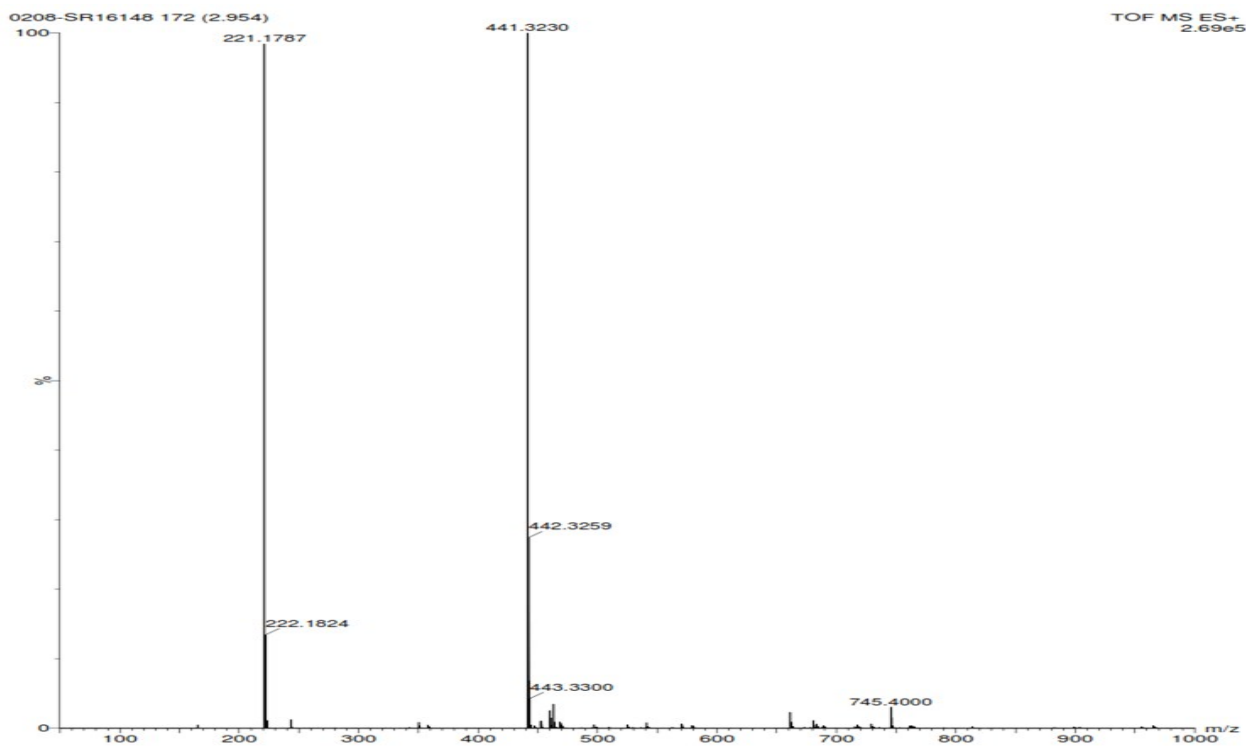
SR10148-1H



<sup>1</sup>H NMR spectra of 1-(*tert*-butyl)-3-(3,4-dimethylphenyl)urea 3m:



<sup>13</sup>C NMR spectra of 1-(*tert*-butyl)-3-(3,4-dimethylphenyl)urea 3m:



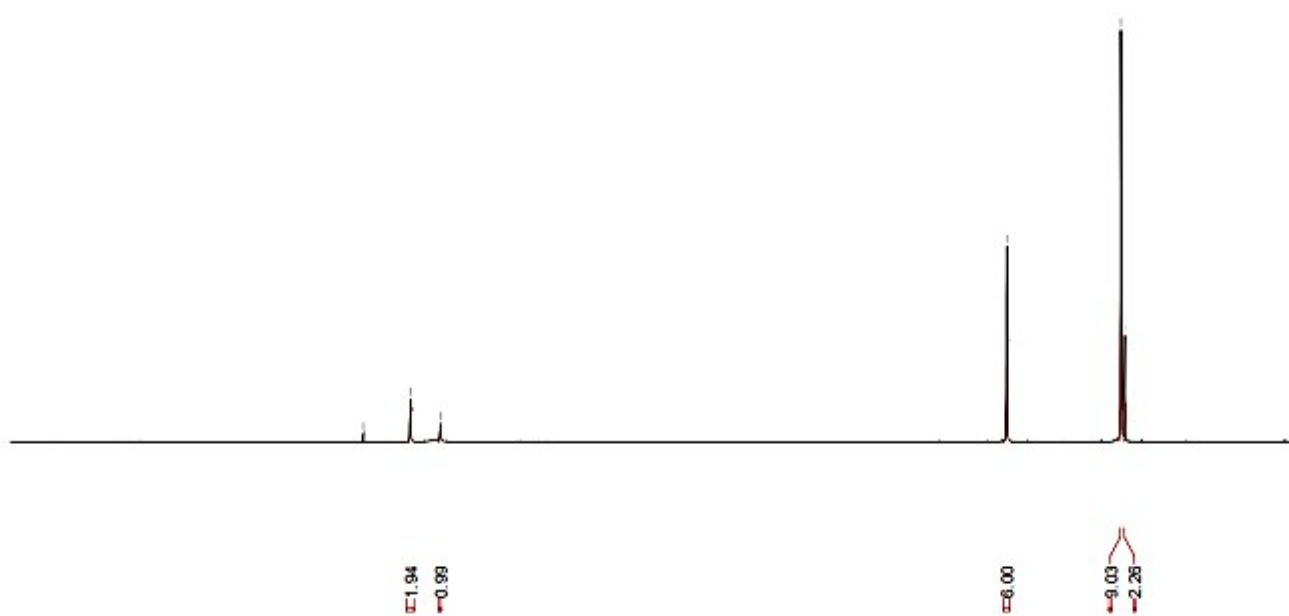
Mass spectra of 1-(*tert*-butyl)-3-(3,4-dimethylphenyl)urea 3m:

SR16149-1H

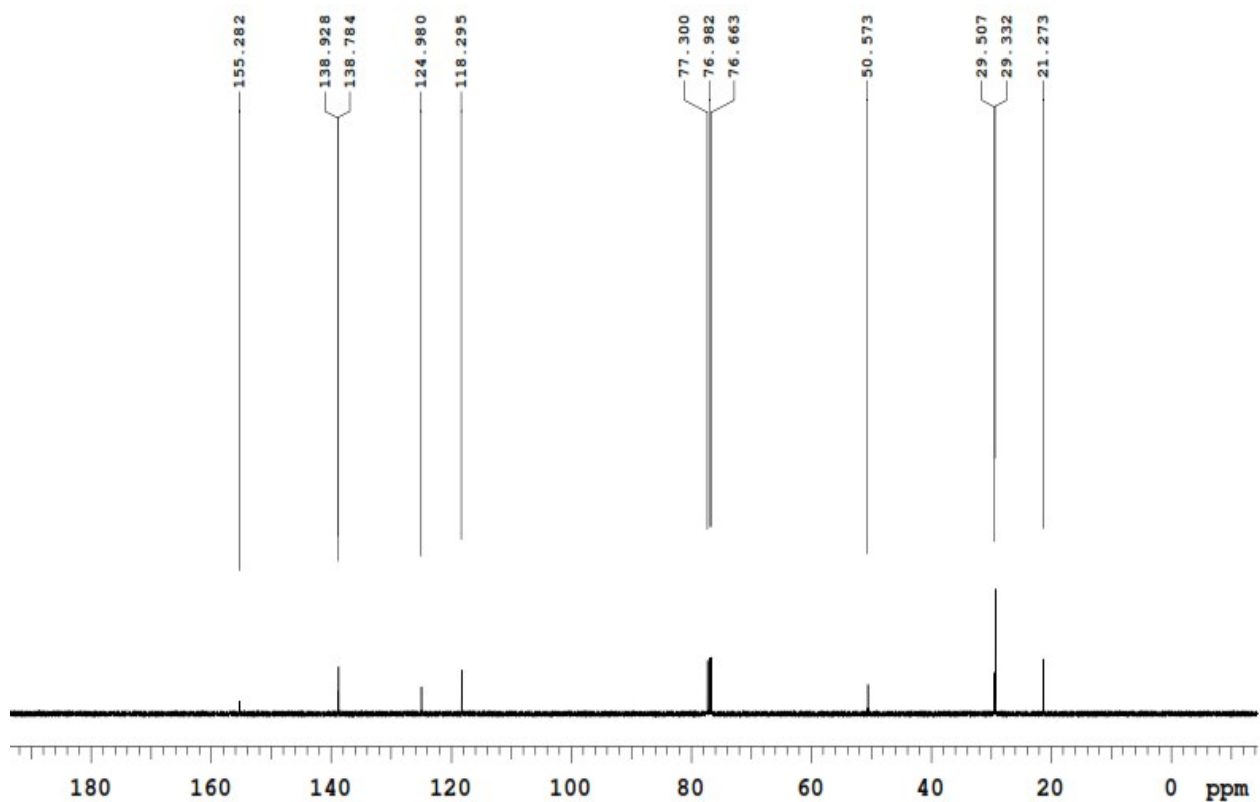
7.251  
6.885  
6.651

2.233

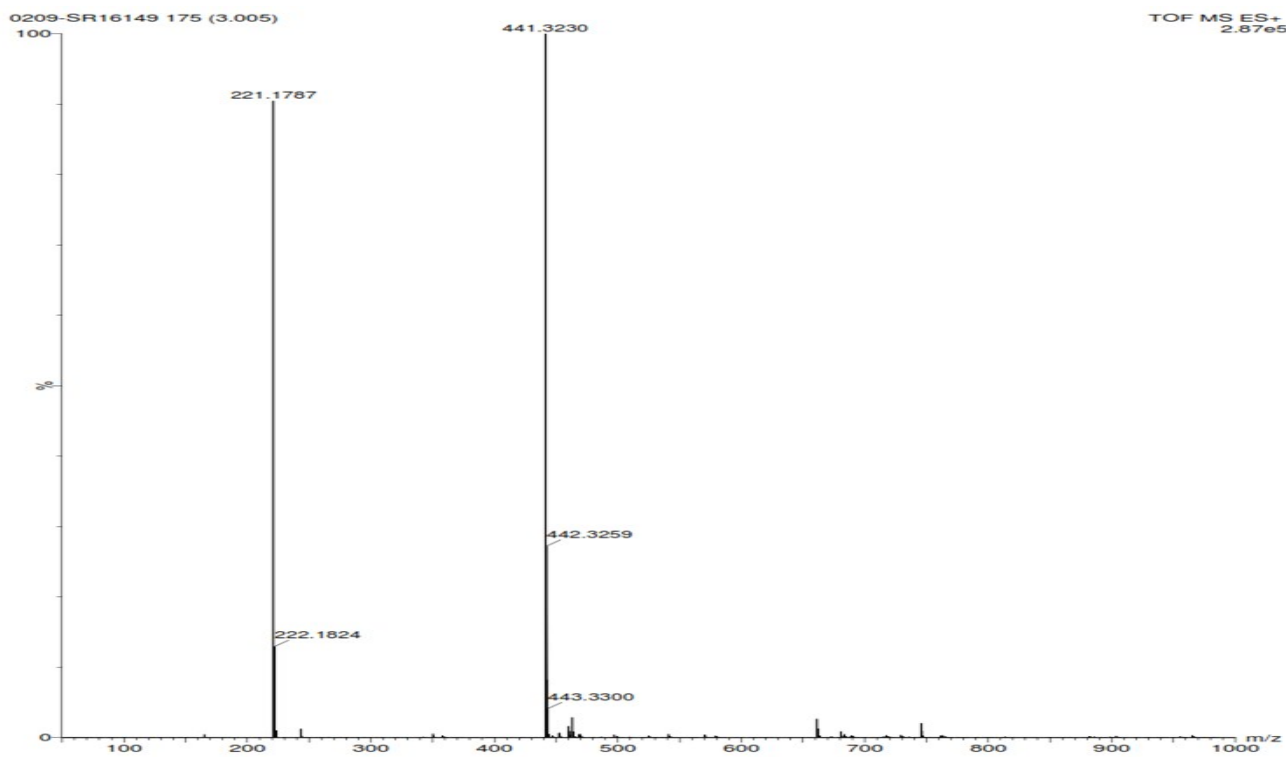
1.342  
1.314



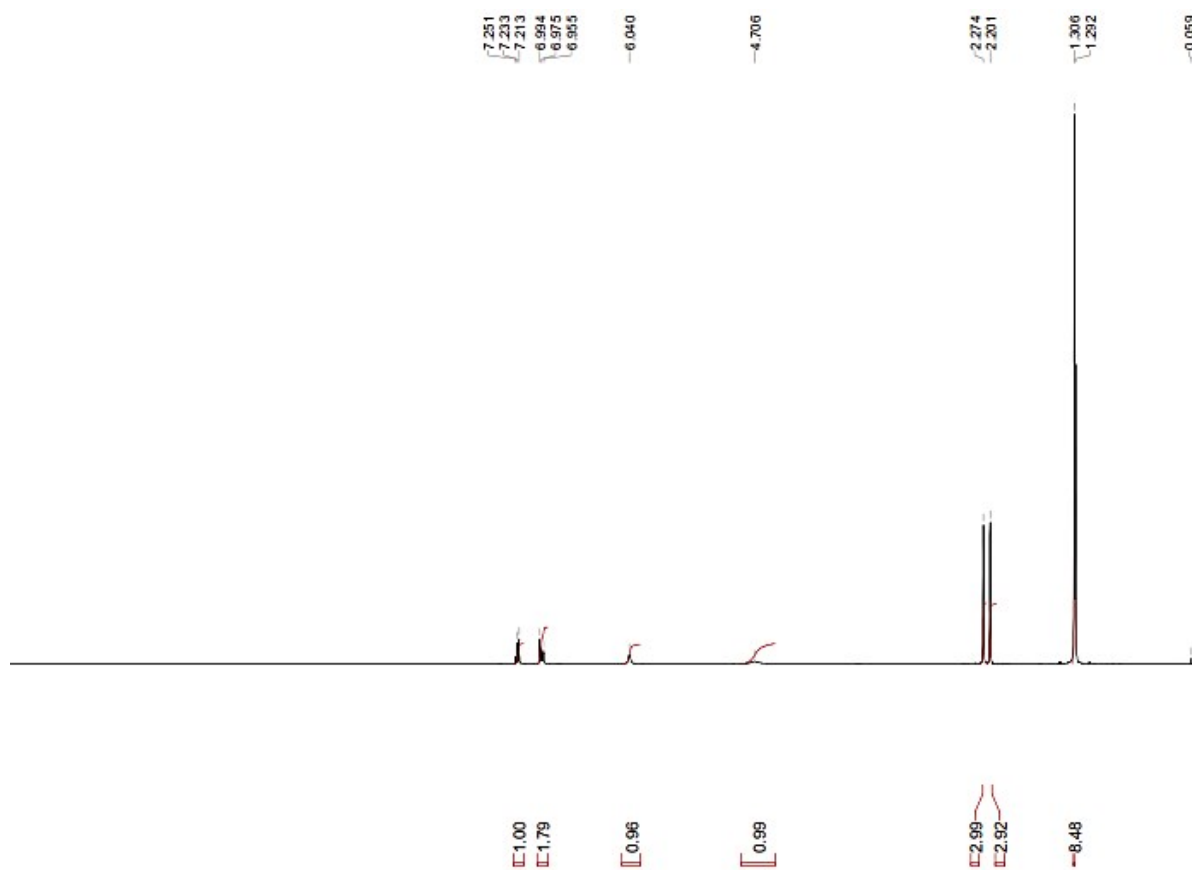
<sup>1</sup>H NMR spectra of 1-(*tert*-butyl)-3-(3,5-dimethylphenyl)urea 3n:



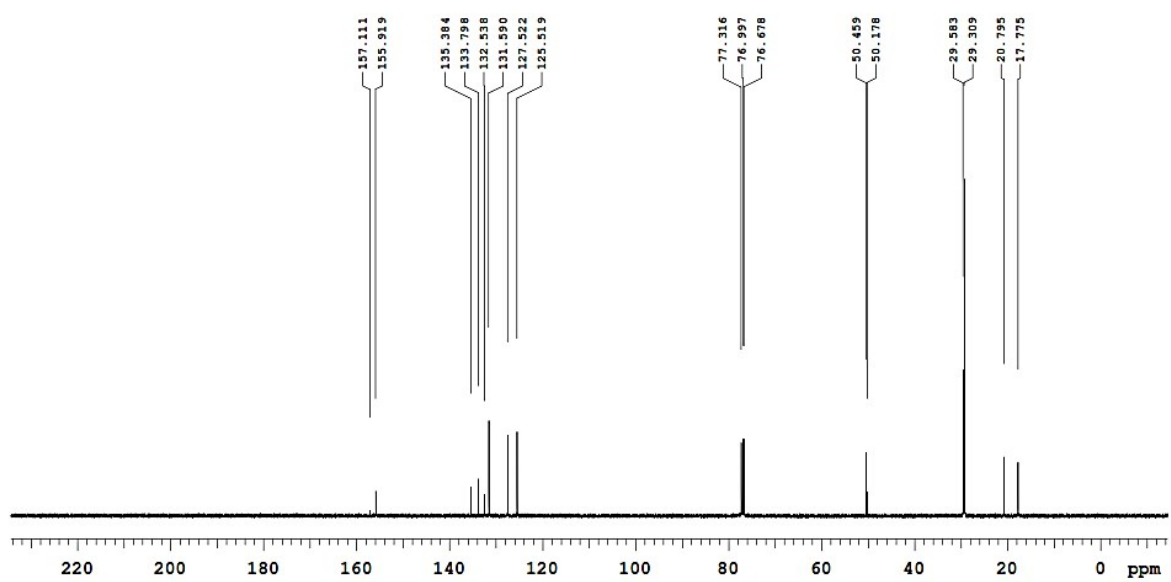
<sup>13</sup>C NMR spectra of 1-(tert-butyl)-3-(3,5-dimethylphenyl)urea 3n:



Mass spectra of 1-(tert-butyl)-3-(3,5-dimethylphenyl)urea 3n:

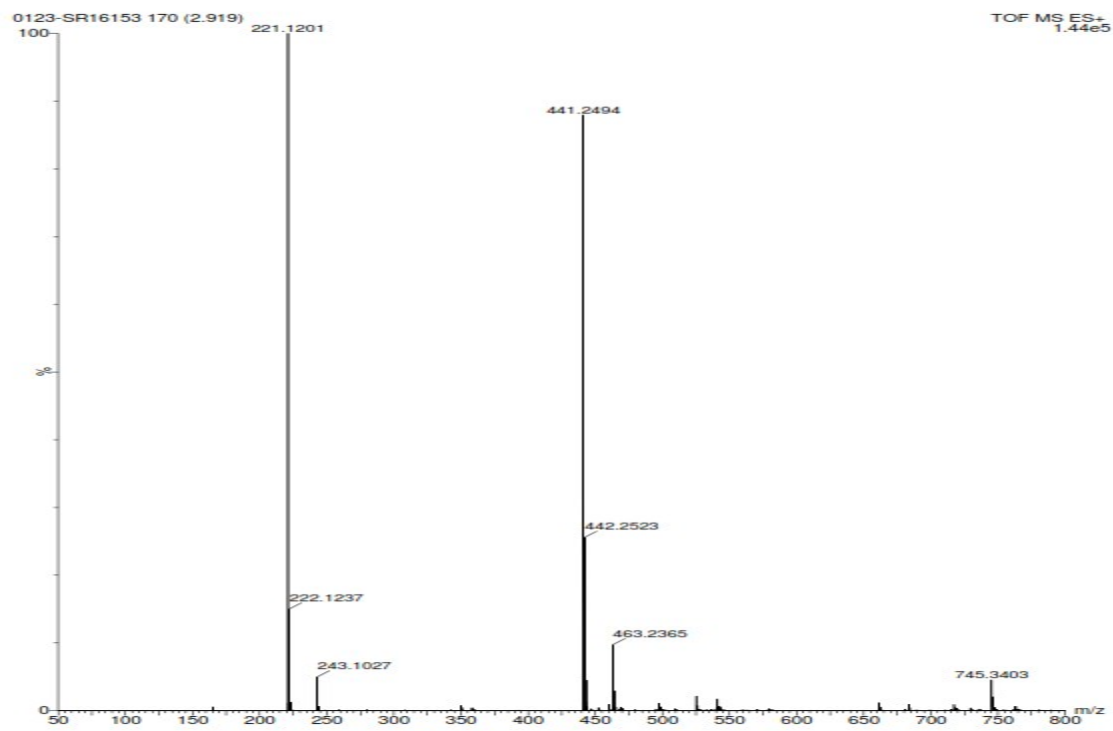


<sup>1</sup>H NMR spectra of 1-(*tert*-butyl)-3-(2,4-dimethylphenyl)urea 3o:

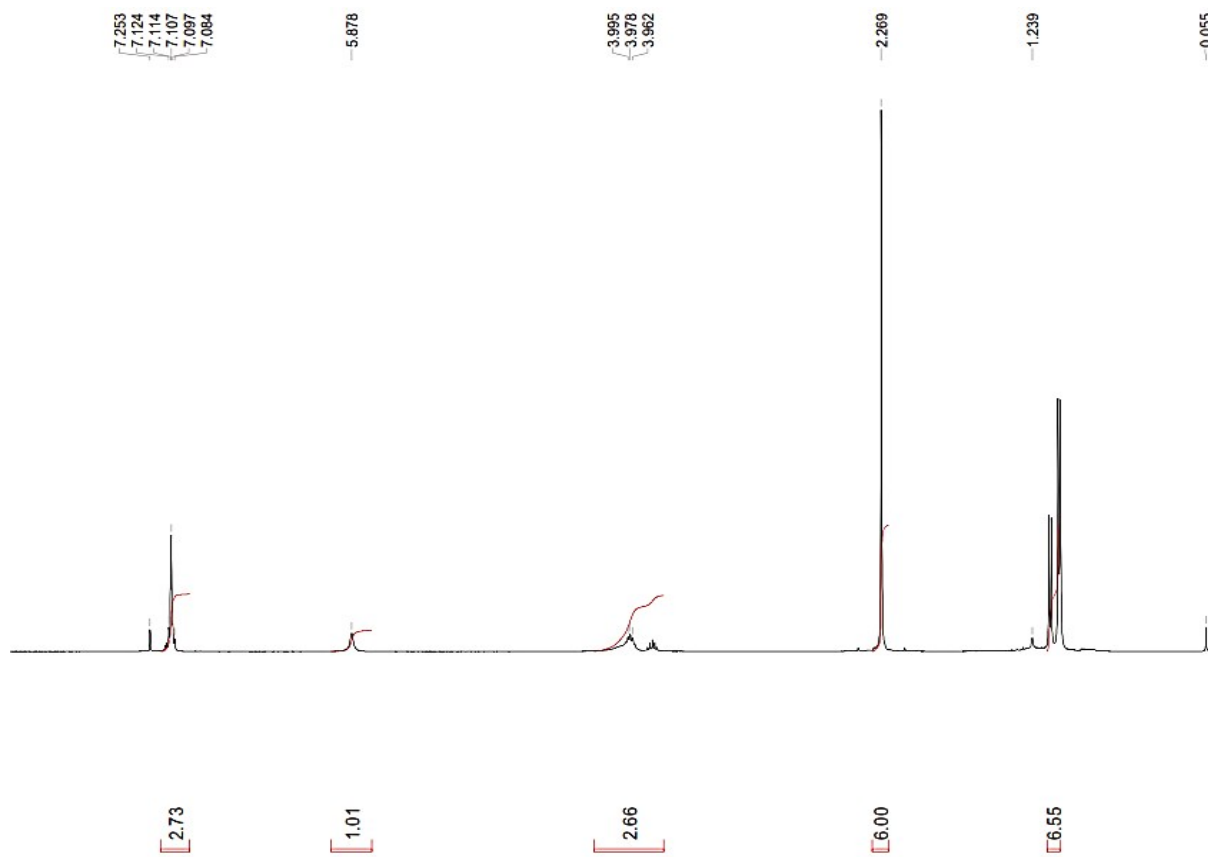


<sup>13</sup>C NMR spectra of 1-(*tert*-butyl)-3-(2,4-dimethylphenyl)urea 3o

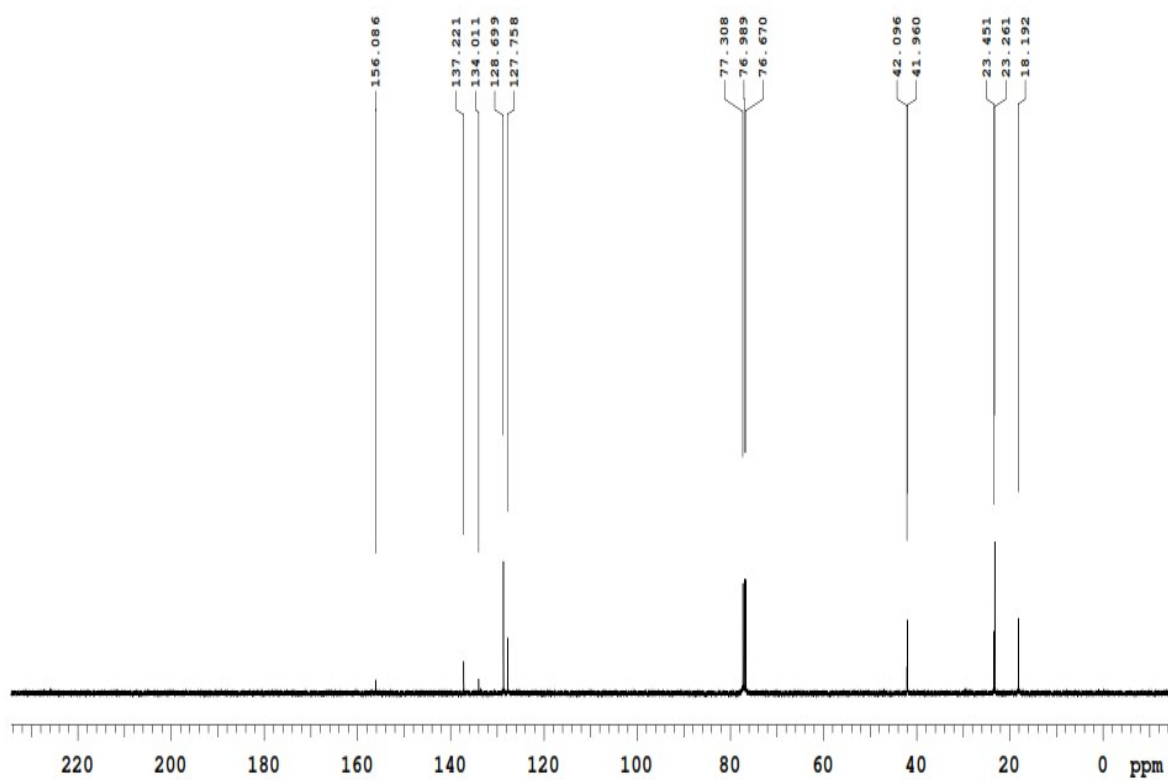




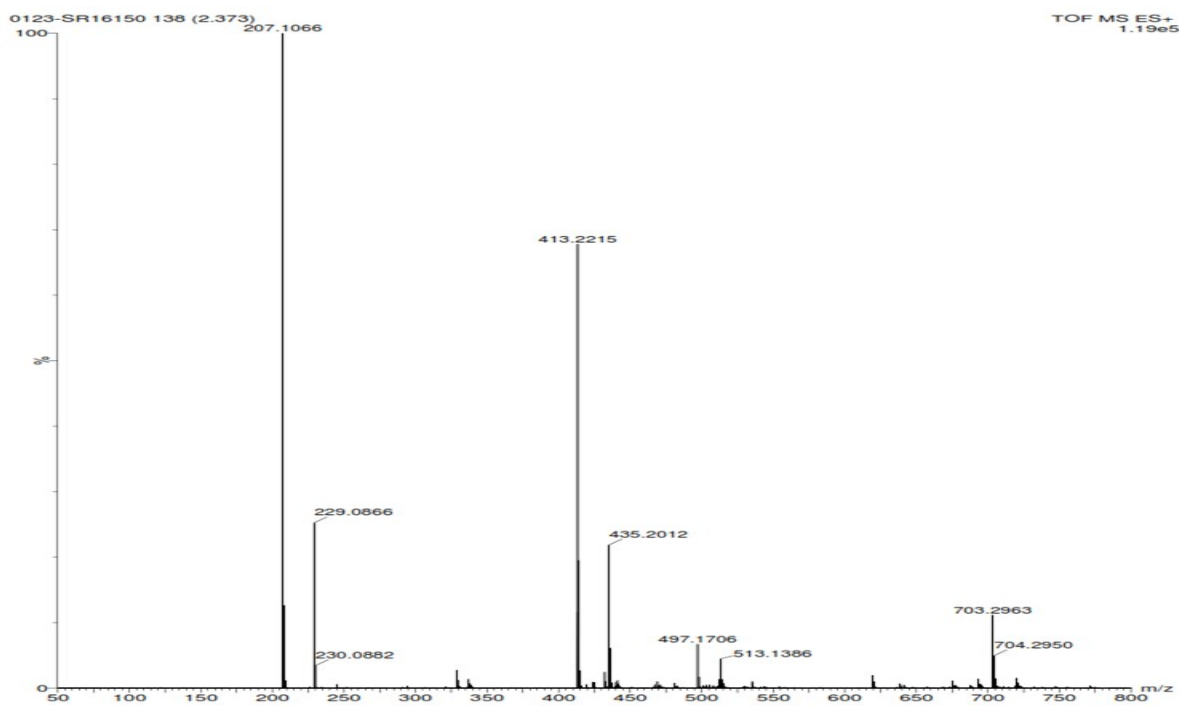
Mass spectra of 1-(*tert*-butyl)-3-(2,4-dimethylphenyl)urea 3o



<sup>1</sup>H NMR spectra of 1-(2,6-dimethylphenyl)-3-isopropylurea 3q



<sup>13</sup>C NMR spectra of 1-(2,6-dimethylphenyl)-3-isopropylurea 3q



Mass spectra of 1-(2,6-dimethylphenyl)-3-isopropylurea 3q