

**Table S1: Normalised Intensities of Sulfur Model Compounds (as previously reported)<sup>33</sup>**

<b>Energy</b>	<b>2469.85</b>	<b>2470.55</b>	<b>2470.8</b>	<b>2473.5</b>	<b>2474.4</b>	<b>2478.2</b>	<b>2479.2</b>	<b>2479.6</b>	<b>2479.8</b>
<b>RSSR</b>	2.78	1.82	1.84	0.77	0.83	1.23	1.17	1.14	1.12
<b>RSH</b>	1.47	3.04	2.71	1.12	1.17	1.23	1.16	1.12	1.11
<b>RSR</b>	0.72	2.48	3.2	1.01	1.08	1.34	1.28	1.23	1.21
<b>Sulfoxide</b>	0.08	0.11	0.13	4.52	2.44	0.98	1.06	1.07	1.07
<b>Sulfinic Acid</b>	0.06	0.07	0.09	1.42	4.35	1.23	1.23	1.21	1.19
<b>Sulfonic Acid</b>	0.05	0.06	0.06	0.01	0.11	5.4	2.75	1.92	1.62
<b>Ester N-linked</b>	0.07	0.07	0.07	0.11	0.13	3.06	5.55	5.05	4.47
<b>Free Sulfate</b>	0.06	0.05	0.05	0.08	0.07	1.15	5.51	6.81	6.65
<b>Ester O-linked</b>	0.01	0.01	0.02	0.04	0.06	3.20	4.94	5.79	6.10