Supporting Information

Crystal structure of $(C_9H_{17}N_2)_3Bi_2I_9$

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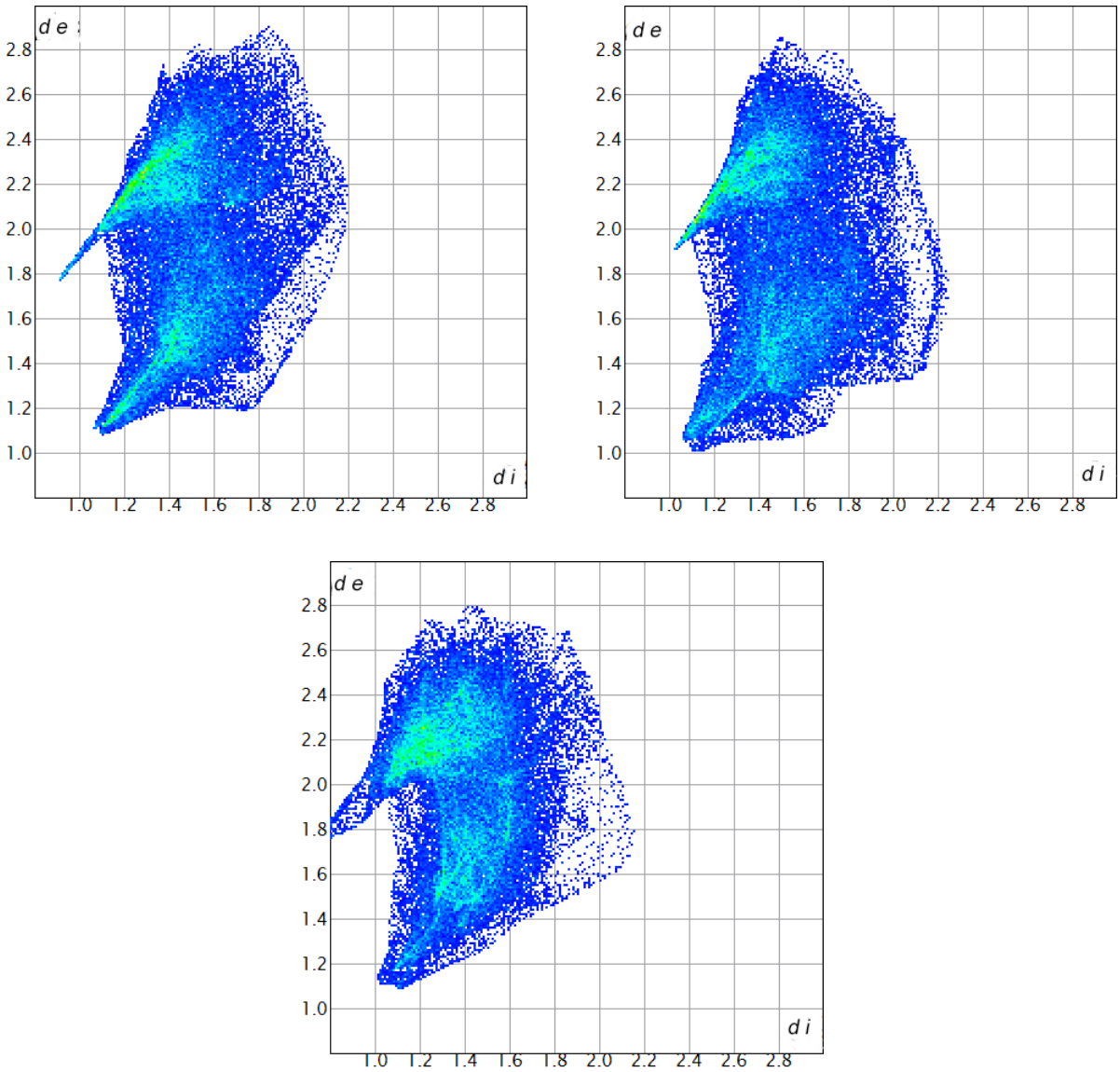

Figure S1. The overall fingerprint plots for the three crystallographically-independent $DBUH^+$ cations.

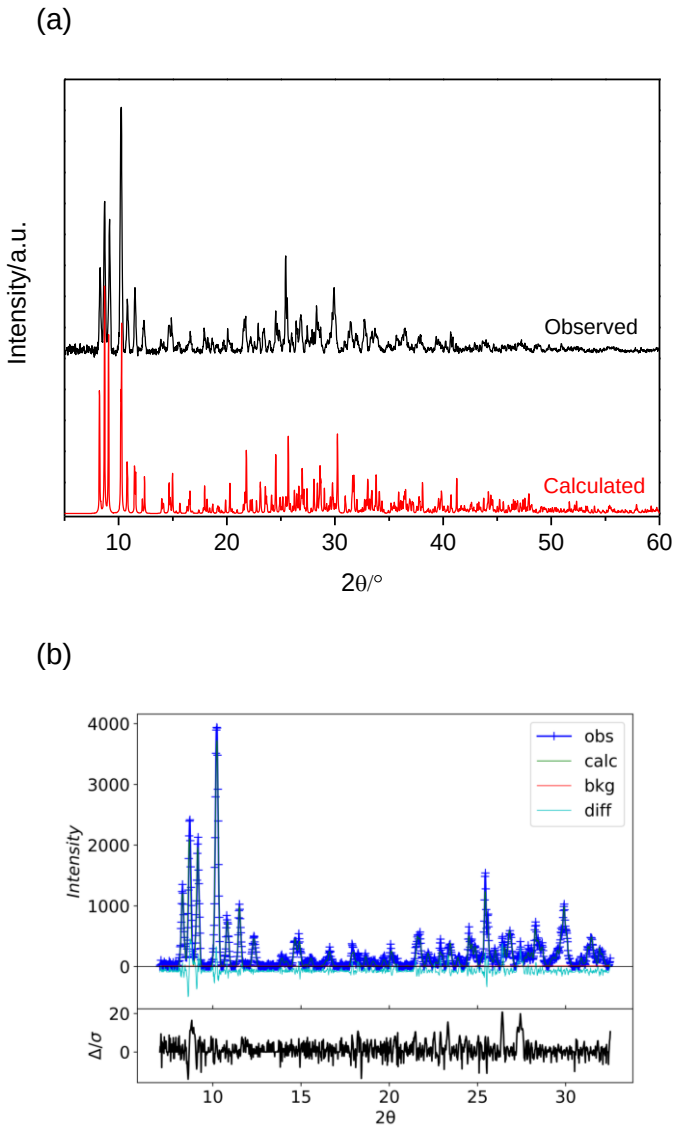

Figure S2. (a) Experimental (black line) and calculated (red line) powder X-ray diffraction data for $(C_9H_{17}N_2)_3Bi_2I_9$ (b) Pawley refinement using powder X-ray diffraction data for $(C_9H_{17}N_2)_3Bi_2I_9$, which resulted in the following lattice parameters: a = 19.374(7), b = 12.629(1), c = 21.510(8) Å, β = 116.08(1)°.

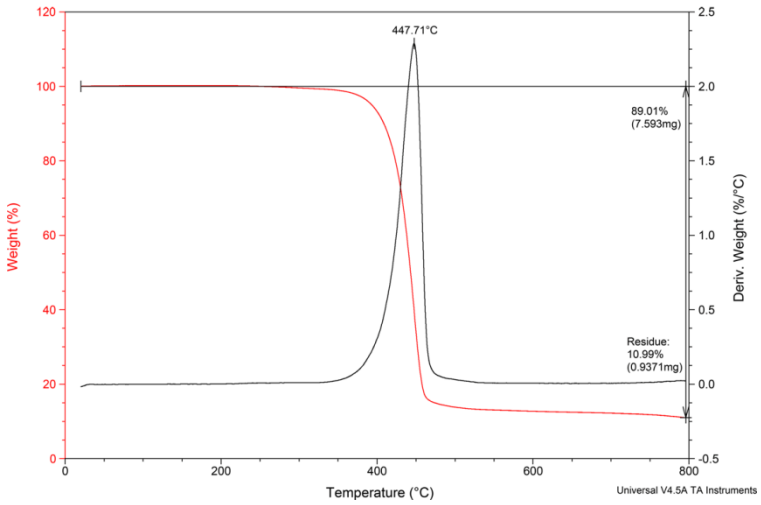

Figure S3. Thermogravimetric data for $(C_9H_{17}N_2)_3Bi_2I_9$, collected under a N_2 atmosphere.