

Supplementary information

Photophysical characteristic of imaging agents.

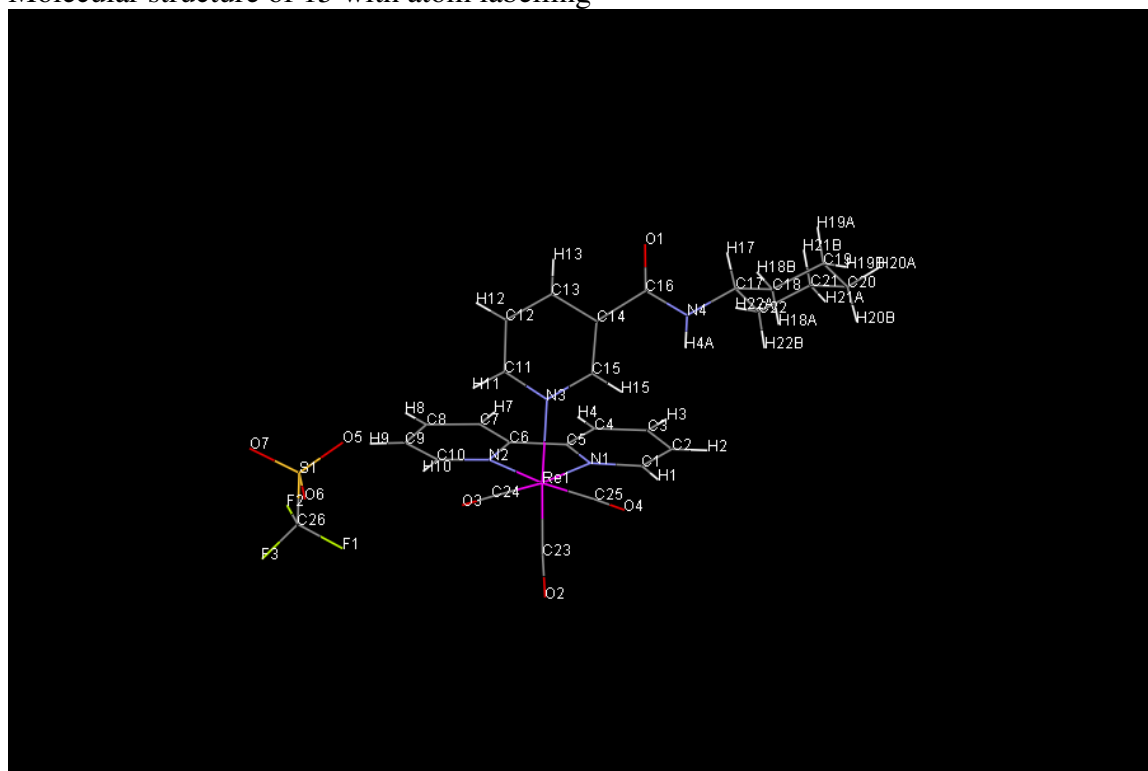
Complex	λ max _{abs} (nm) (assignment)	λ max _{em} (assignment) (nm)
2	318 (IL) 365 (¹ MLCT)	556 (³ MLCT)
8	318 (IL) 360 (¹ MLCT)	554 (³ MLCT)
9	316 (IL) 355 (¹ MLCT)	554 (³ MLCT)
10	319 (IL) 358 (¹ MLCT)	552 (³ MLCT)
14	313 (IL) 389 (¹ MLCT)	553 (³ MLCT)
15	313 (IL) 376 (¹ MLCT)	539 (³ MLCT)
22	285 (IL) 375(¹ MLCT)	566 (³ MLCT)
23	282 (IL) 378(¹ MLCT)	563 (³ MLCT)
28	336 (IL) 393 (¹ MLCT)	558 (³ MLCT)
29	314 (IL) 358 (¹ MLCT)	551 (³ MLCT)

X ray crystallography.

Crystal data for **15**:

$C_{26}H_{24}F_3N_4O_7ReS$, $M = 779.75$, $0.20 \times 0.20 \times 0.20$ mm³, monoclinic, space group $P2_1/c$ (No. 14), $a = 12.1380(3)$, $b = 12.1560(3)$, $c = 19.4130(5)$ Å, $\beta = 105.8630(10)^\circ$, $V = 2755.30(12)$ Å³, $Z = 4$, $D_c = 1.880$ g/cm³, $F_{000} = 1528$, MoK α radiation, $\lambda = 0.71073$ Å, $T = 293(2)$ K, $2\theta_{max} = 61.0^\circ$, 11446 reflections collected, 7278 unique ($R_{int} = 0.0300$). Final $Goof = 1.071$, $R1 = 0.0373$, $wR2 = 0.0698$, R indices based on 6007 reflections with $I > 2\sigma(I)$ (refinement on F^2), 379 parameters, 0 restraints. Lp and absorption corrections applied, $\mu = 4.559$ mm⁻¹.

Molecular structure of 15 with atom labelling

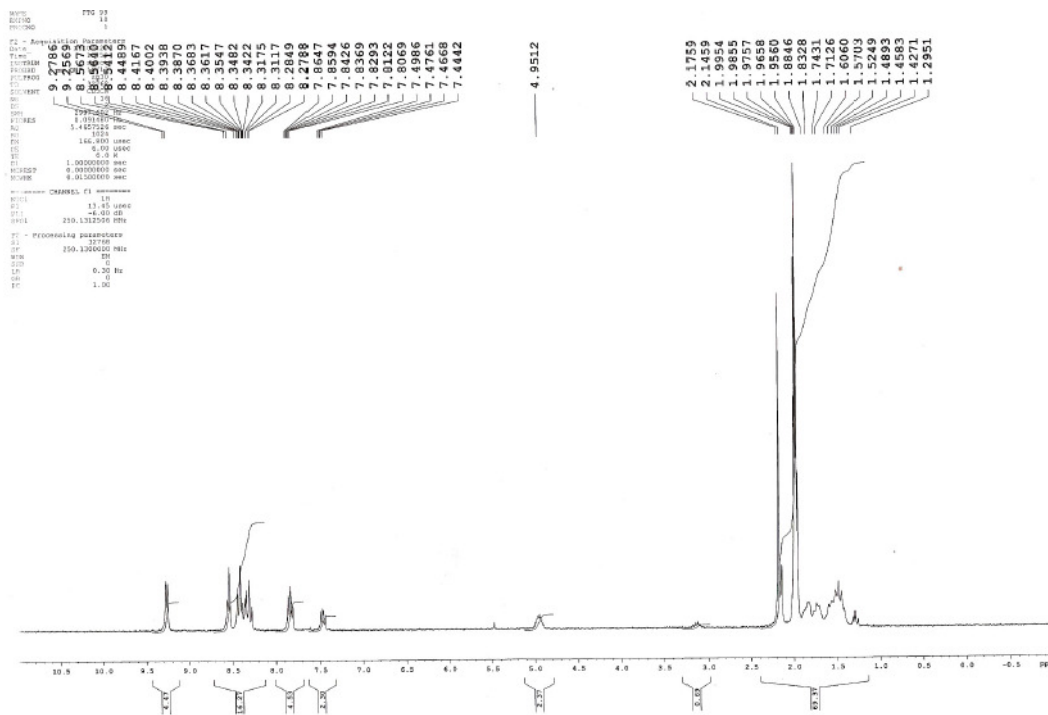


Selected bond lengths and angles for **15**

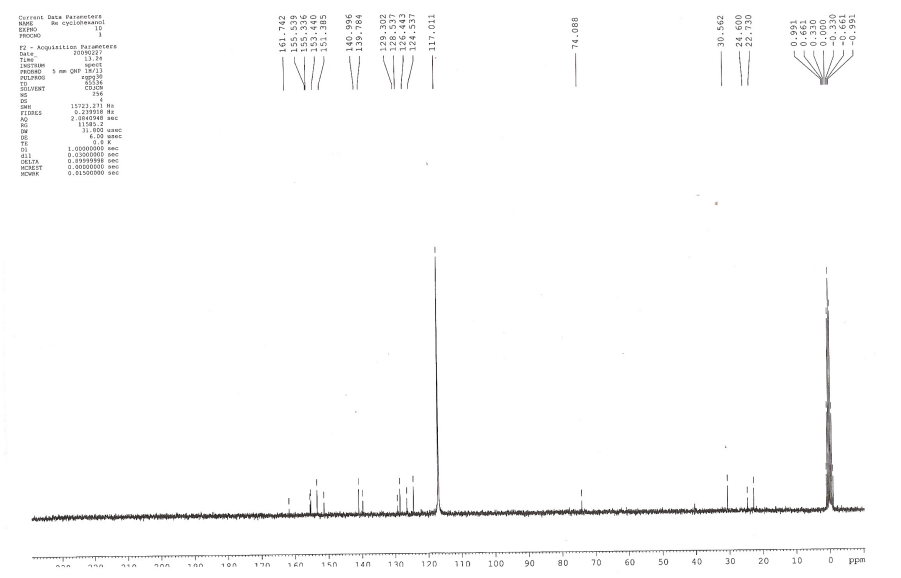
Bond	Bond length (Å)	Bond angle (°)
Re1-C23	1.915(4)	
Re1-C24	1.930(4)	

Re1-C25	1.928(4)	
Re1-N1	2.161(3)	
Re1-N2	2.172(3)	
Re1-N3	2.220(3)	
N1-Re1-N2		74.83(12)
N1-Re1-N3		83.21(12)
N2-Re1-N3		84.21(12)
C23-Re1-N2		96.04(14)
C23-Re1-C24		89.79(16)
C25-Re1-N3		92.55(14)

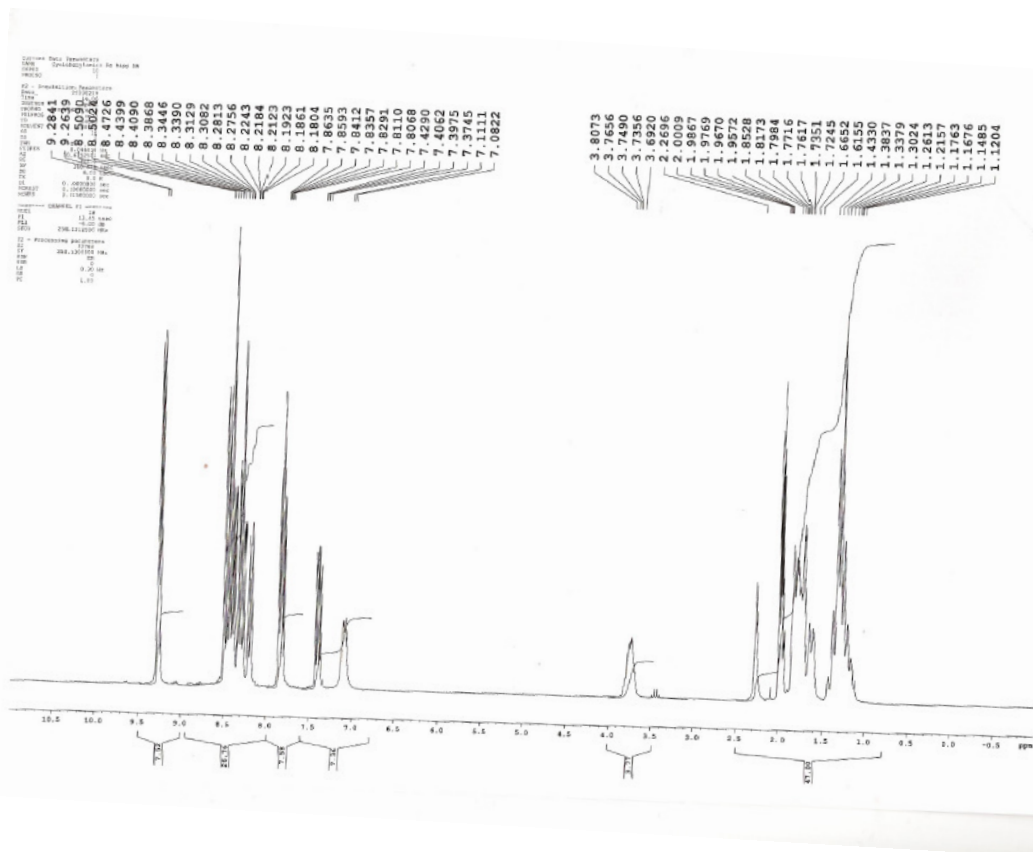
NMR spectra of complexes **14**, **15**.



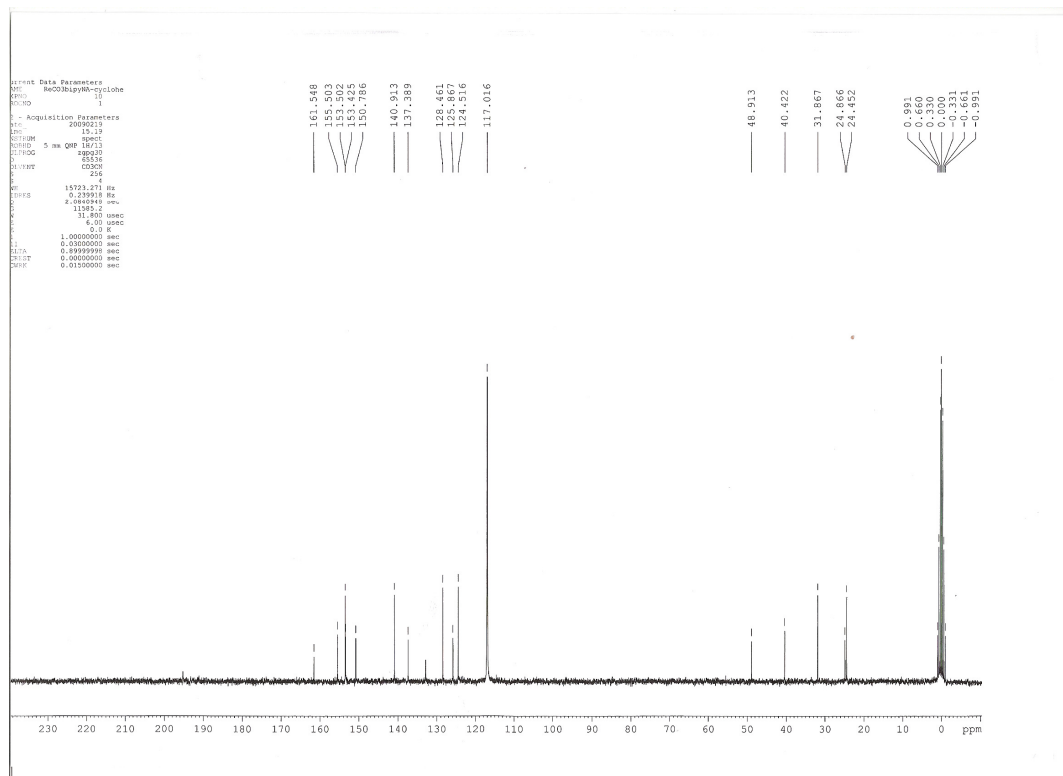
¹H NMR complex **14**



¹³C NMR complex **14**



¹H NMR complex 15



¹³C NMR complex 14

