Experimental Demonstration of 220-GHz Terahertz Signals Wireless Transmission over 4.6 km

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As shown in Table 1, a number of representative experimental demonstrations of THz signal wireless transmission near the 220-GHz frequency band are listed.

Table 1 Wireless transmission demonstrations near 220 GHz

Reference	Carrier frequency (GHz)	Distance (km)	Bit rates (Gbps)	Mode
[1]	237.5	0.0004	75	photonic-electronic
[2]	220-280	0.0007	100(ch5)	photonic-electronic
[3]	220	0.2	30	all-electronic
[4]	240	0.4	96	all-electronic
[5]	227	1.4	160	all-photonic
[6]	220	1.5	10	all-electronic
[7]	220	2.5	0.1	all-electronic
this work	220	4.6	2	photonic-electronic

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