

**Appendix A-RF Output Power and Amplifier Gain**
**Test Data:**

FDD LTE Band 30											
Mode	Operation Band	Frequency F <sub>0</sub> (MHz)	Signal Type	Signal Level (dBm)	Input Power (dBm)	Output Power (dBm)				Total Output Power (dBm)	Gain (dB)
						Ant 1	Ant 2	Ant 3	Ant 4		
<b>SISO Mode</b>											
Downlink	2350MHz ~2360MHz	2351.8MHz	AWGN	Pre-AGC	0	36.25	--	--	--	36.25	36.25
				3dB Above AGC	3	36.89	--	--	--	36.89	/
		2351.8MHz	GSM	Pre-AGC	0	36.87	--	--	--	36.87	36.87
				3dB Above AGC	3	37.09	--	--	--	37.09	/
<b>2x2 MIMO Mode</b>											
Downlink	2350MHz ~2360MHz	2351.8MHz	AWGN	Pre-AGC	0	36.25	36.20	--	--	39.24	/
				3dB Above AGC	3	36.89	36.68	--	--	39.80	/
		2351.8MHz	GSM	Pre-AGC	0	36.87	36.56	--	--	39.73	/
				3dB Above AGC	3	37.09	36.74	--	--	39.93	/
<b>4x4 MIMO Mode</b>											
Downlink	2350MHz ~2360MHz	2351.8MHz	AWGN	Pre-AGC	0	36.25	36.24	36.06	36.20	42.21	/
				3dB Above AGC	3	36.89	36.59	36.73	36.63	42.73	/
		2351.8MHz	GSM	Pre-AGC	0	36.87	36.74	36.53	36.52	42.69	/
				3dB Above AGC	3	37.09	36.82	36.74	36.71	42.86	/
Remark: EIRP of the EUT is 48.86dBm which is less than the average equivalent isotropically radiated power (EIRP) must not exceed 2,000 watts within any 5 megahertz of authorized bandwidth and must not exceed 400 watts within any 1 megahertz of authorized bandwidth. The EUT supports SISO working mode. Each antenna can be used as SISO working port. We only present the worst result, the test data of ant 1 port. This EUT supports 2*2 and 4*4 MIMO, for 2*2 MIMO mode we only present the worst result of Ant 1 and Ant 2. For MIMO mode the output signals are considered completely uncorrelated, so the antenna gain is 6dBi.											

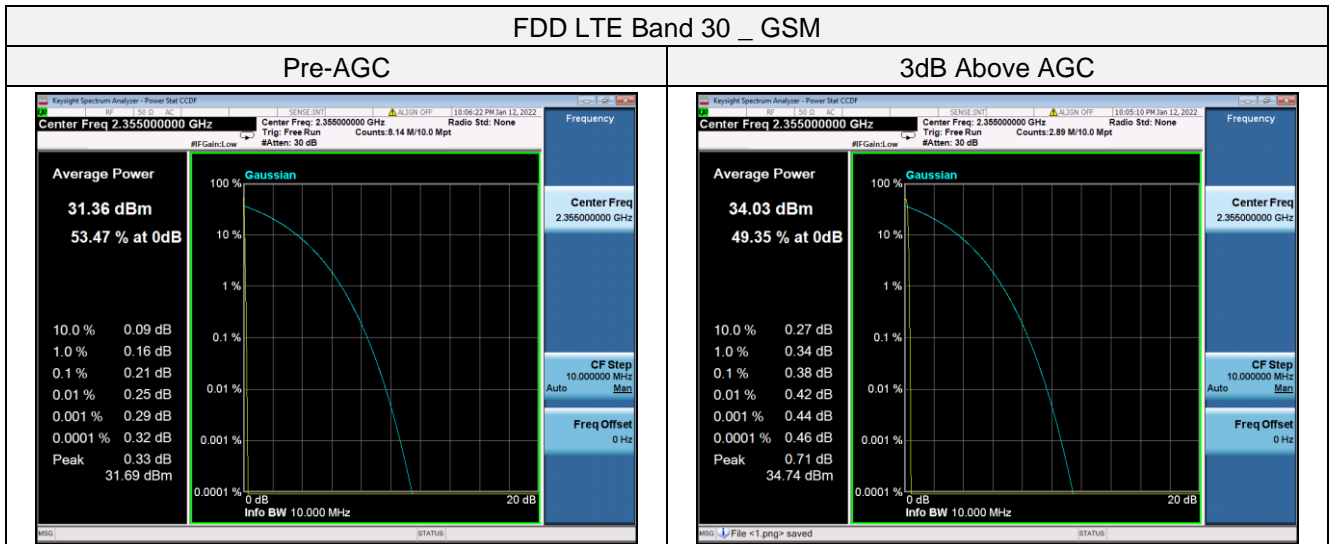
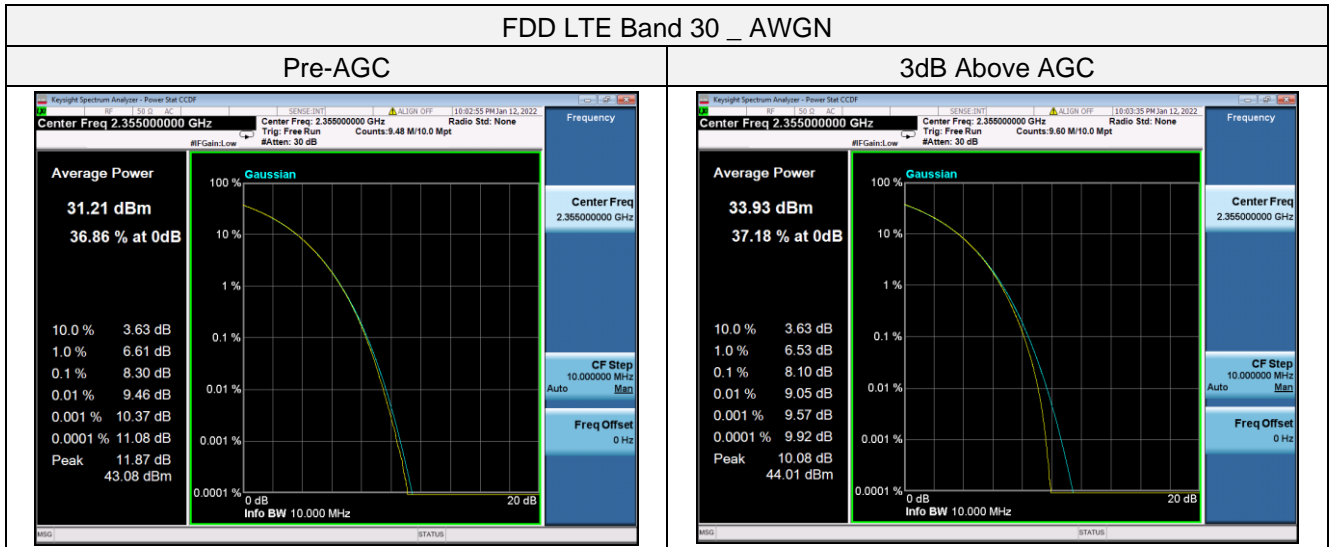


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Mode	Operation Band	Frequency (MHz)	Signal Type	Signal Level (dBm)	Input Power (dBm)	PAPR (dB)	Limit (dB)
FDD LTE Band 30							
Downlink	2350MHz ~2360MHz	2355.0MHz	AWGN	Pre-AGC	0	8.30	13.0
				3dB Above AGC	3	8.10	13.0
	2355.0MHz	GSM	Pre-AGC	0	0.21	13.0	
			3dB Above AGC	3	0.38	13.0	



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