Appendix A-RF Output Power and Amplifier Gain

Test Data:

FDD LTE Band 66											
Mode	Operation Band	Frequency (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		
SISO Mode											
Downlink	869MHz ~894MHz	876.5MHz	AWGN	Pre-AGC	0	36.75	--	--	--	36.75	36.75
				3dB Above AGC	3	37.29	--	--	--	37.29	/
		876.5MHz	GSM	Pre-AGC	0	36.22	--	--	--	36.22	36.22
				3dB Above AGC	3	37.08	--	--	--	37.08	/
MIMO Mode											
Downlink	869MHz ~894MHz	876.5MHz	AWGN	Pre-AGC	0	36.75	36.43	36.75	36.67	42.67	/
				3dB Above AGC	3	37.29	37.26	37.19	37.28	43.28	/
		876.5MHz	GSM	Pre-AGC	0	36.22	36.14	36.18	36.13	42.19	/
				3dB Above AGC	3	37.08	36.99	37.04	36.89	43.02	/

Remark: EIRP of the EUT is 49.28dBm which is less than the EIRP limit of which is 1640W/MHz.

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 also supports 4*4 MIMO.

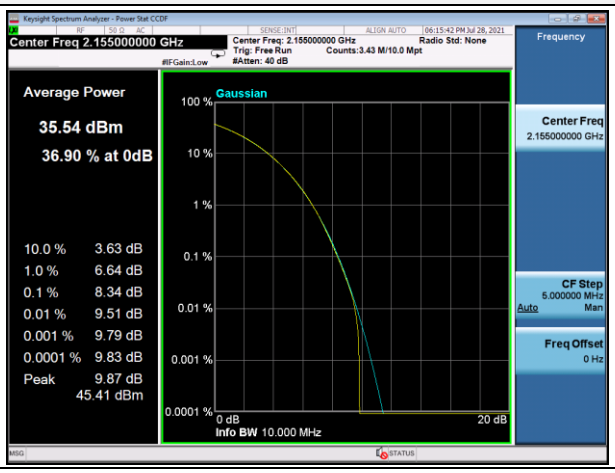
For MIMO mode the output signals are considered completely uncorrelated, so the antenna gain is 6dBi.

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300 t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn
中国・江苏・昆山市留学生创业园伟业路10号 邮编 215300 t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

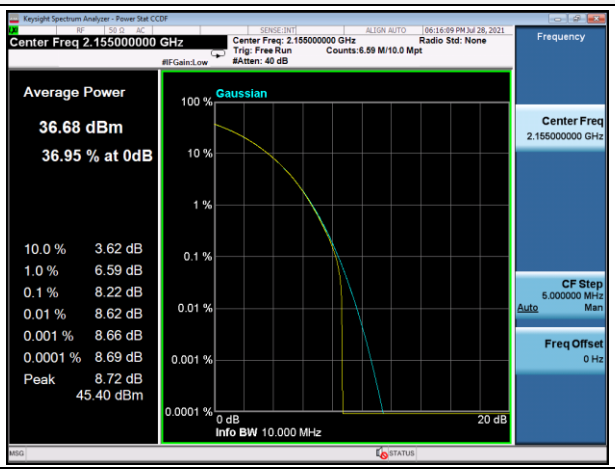
Mode	Operation Band	Frequency (MHz)	Signal Type	Signal Level (dBm)	Input Power (dBm)	PAPR (dB)	Limit (dB)
FDD LTE Band 66							
Downlink	2110MHz ~2200MHz	2155.0MHz	AWGN	Pre-AGC	0	8.34	13.0
				3dB Above AGC	3	8.22	13.0
		2155.0MHz	GSM	Pre-AGC	0	0.28	13.0
				3dB Above AGC	3	0.08	13.0

FDD LTE Band 66 _ AWGN

Pre-AGC

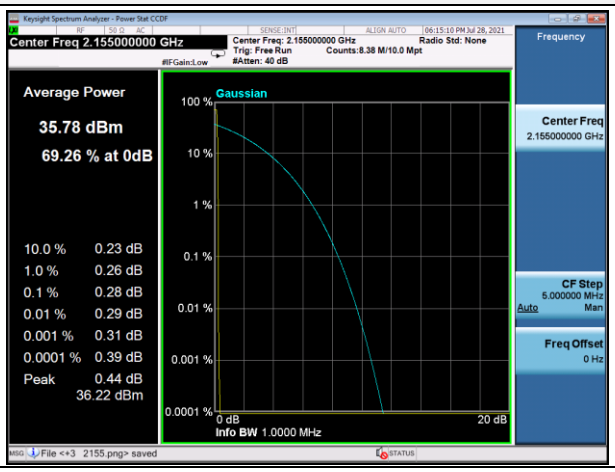


3dB Above AGC

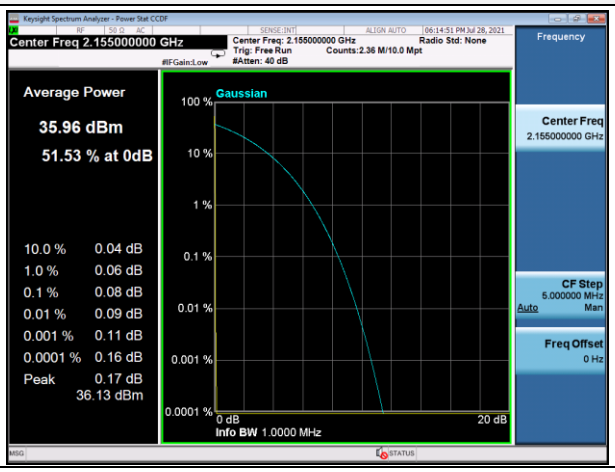


FDD LTE Band 66 _ GSM

Pre-AGC



3dB Above AGC



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