

Appendix Q1 - Peak-to-average Ratio (PAR)

Test Information:

Sample No.:	30VS-1	Test Date:	2025/04/21~2025/05/07
Test Site:	RF	Test Mode:	Transmitting
Tester:	Usain Ou	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.7-25.2	Relative Humidity: (%)	38-53	ATM Pressure: (kPa)	101
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Peak-to-average Ratio (PAR)

FCC Part 22H

LTE Band 5, Normal

Mode	Result (dB)	Limit (dB)
10MHz_Low_QPSK_1@0	4.72	13
10MHz_Low_QPSK_50@0	4.84	13
10MHz_Low_16QAM_1@0	5.86	13
10MHz_Low_16QAM_50@0	5.80	13
10MHz_Middle_QPSK_1@0	3.74	13
10MHz_Middle_QPSK_50@0	5.19	13
10MHz_Middle_16QAM_1@0	4.70	13
10MHz_Middle_16QAM_50@0	6.03	13
10MHz_High_QPSK_1@0	5.33	13
10MHz_High_QPSK_50@0	5.10	13
10MHz_High_16QAM_1@0	5.57	13
10MHz_High_16QAM_50@0	6.03	13

Note: worst case.

FCC Part 24E

LTE Band 2, Normal

Mode	Result (dB)	Limit (dB)
20MHz_Low_QPSK_1@0	5.77	13
20MHz_Low_QPSK_100@0	8.49	13
20MHz_Low_16QAM_1@0	6.90	13
20MHz_Low_16QAM_100@0	6.43	13
20MHz_Middle_QPSK_1@0	5.88	13
20MHz_Middle_QPSK_100@0	5.59	13
20MHz_Middle_16QAM_1@0	7.19	13
20MHz_Middle_16QAM_100@0	6.43	13
20MHz_High_QPSK_1@0	5.77	13
20MHz_High_QPSK_100@0	5.51	13
20MHz_High_16QAM_1@0	6.38	13
20MHz_High_16QAM_100@0	6.32	13

Note: worst case.

FCC Part 27

LTE Band 4, Normal

Mode	Result (dB)	Limit (dB)
20MHz_Low_QPSK_1@0	4.12	13
20MHz_Low_QPSK_100@0	4.81	13
20MHz_Low_16QAM_1@0	5.13	13
20MHz_Low_16QAM_100@0	5.68	13
20MHz_Middle_QPSK_1@0	4.26	13
20MHz_Middle_QPSK_100@0	4.67	13
20MHz_Middle_16QAM_1@0	5.39	13
20MHz_Middle_16QAM_100@0	5.57	13
20MHz_High_QPSK_1@0	3.86	13
20MHz_High_QPSK_100@0	4.70	13
20MHz_High_16QAM_1@0	4.67	13
20MHz_High_16QAM_100@0	5.71	13

LTE Band 12, Normal

Mode	Result (dB)	Limit (dB)
10MHz_Low_QPSK_1@0	4.26	13
10MHz_Low_QPSK_50@0	4.93	13
10MHz_Low_16QAM_1@0	4.75	13
10MHz_Low_16QAM_50@0	5.91	13
10MHz_Middle_QPSK_1@0	4.41	13
10MHz_Middle_QPSK_50@0	5.13	13
10MHz_Middle_16QAM_1@0	5.57	13
10MHz_Middle_16QAM_50@0	5.94	13
10MHz_High_QPSK_1@0	4.32	13
10MHz_High_QPSK_50@0	5.01	13
10MHz_High_16QAM_1@0	5.16	13
10MHz_High_16QAM_50@0	5.91	13

LTE Band 17, Normal

Mode	Result (dB)	Limit (dB)
10MHz_Low_QPSK_1@0	4.38	13
10MHz_Low_QPSK_50@0	5.04	13
10MHz_Low_16QAM_1@0	5.59	13
10MHz_Low_16QAM_50@0	6	13
10MHz_Middle_QPSK_1@0	4.70	13
10MHz_Middle_QPSK_50@0	5.10	13
10MHz_Middle_16QAM_1@0	5.25	13
10MHz_Middle_16QAM_50@0	5.94	13
10MHz_High_QPSK_1@0	4.32	13
10MHz_High_QPSK_50@0	5.04	13
10MHz_High_16QAM_1@0	5.13	13
10MHz_High_16QAM_50@0	6.03	13

LTE Band 41, Normal

Mode	Result (dB)	Limit (dB)
20MHz_Low_QPSK_1@0	5.13	13
20MHz_Low_QPSK_100@0	5.59	13
20MHz_Low_16QAM_1@0	10.61	13
20MHz_Low_16QAM_100@0	6.41	13
20MHz_Middle_QPSK_1@0	5.72	13
20MHz_Middle_QPSK_100@0	5.48	13
20MHz_Middle_16QAM_1@0	6.06	13
20MHz_Middle_16QAM_100@0	6.43	13
20MHz_High_QPSK_1@0	5.25	13
20MHz_High_QPSK_100@0	5.39	13
20MHz_High_16QAM_1@0	6.41	13
20MHz_High_16QAM_100@0	6.29	13

LTE Band 66, Normal

Mode	Result (dB)	Limit (dB)
20MHz_Low_QPSK_1@0	3.57	13
20MHz_Low_QPSK_100@0	4.75	13
20MHz_Low_16QAM_1@0	4.75	13
20MHz_Low_16QAM_100@0	5.68	13
20MHz_Middle_QPSK_1@0	3.57	13
20MHz_Middle_QPSK_100@0	4.64	13
20MHz_Middle_16QAM_1@0	4.43	13
20MHz_Middle_16QAM_100@0	5.57	13
20MHz_High_QPSK_1@0	4.43	13
20MHz_High_QPSK_100@0	4.35	13
20MHz_High_16QAM_1@0	4.93	13
20MHz_High_16QAM_100@0	5.33	13

LTE Band 71, Normal

Mode	Result (dB)	Limit (dB)
20MHz_Low_QPSK_1@0	5.28	13
20MHz_Low_QPSK_100@0	5.28	13
20MHz_Low_16QAM_1@0	5.80	13
20MHz_Low_16QAM_100@0	6.12	13
20MHz_Middle_QPSK_1@0	4.52	13
20MHz_Middle_QPSK_100@0	5.39	13
20MHz_Middle_16QAM_1@0	5.51	13
20MHz_Middle_16QAM_100@0	6.29	13
20MHz_High_QPSK_1@0	4.06	13
20MHz_High_QPSK_100@0	5.28	13
20MHz_High_16QAM_1@0	4.81	13
20MHz_High_16QAM_100@0	6.23	13

Note: worst case.

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