

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B17_5MHz_ERP

Band: 17 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	706.5	1	0	22.12	3.13	23.10	<=34.77	Pass
			13	22.11	3.13	23.09	<=34.77	Pass
			24	22.16	3.13	23.14	<=34.77	Pass
		12	0	21.06	3.13	22.04	<=34.77	Pass
			6	21.13	3.13	22.11	<=34.77	Pass
			13	21.15	3.13	22.13	<=34.77	Pass
		25	0	21.12	3.13	22.10	<=34.77	Pass
	710	1	0	22.24	3.13	23.22	<=34.77	Pass
			13	22.30	3.13	23.28	<=34.77	Pass
			24	22.33	3.13	23.31	<=34.77	Pass
		12	0	21.24	3.13	22.22	<=34.77	Pass
			6	21.18	3.13	22.16	<=34.77	Pass
			13	21.13	3.13	22.11	<=34.77	Pass
		25	0	21.20	3.13	22.18	<=34.77	Pass
	713.5	1	0	22.29	3.13	23.27	<=34.77	Pass
			13	22.29	3.13	23.27	<=34.77	Pass
			24	22.43	3.13	23.41	<=34.77	Pass
		12	0	21.29	3.13	22.27	<=34.77	Pass
			6	21.31	3.13	22.29	<=34.77	Pass
			13	21.41	3.13	22.39	<=34.77	Pass
		25	0	21.35	3.13	22.33	<=34.77	Pass
16QAM	706.5	1	0	21.37	3.13	22.35	<=34.77	Pass
			13	21.37	3.13	22.35	<=34.77	Pass
			24	21.40	3.13	22.38	<=34.77	Pass
		12	0	20.05	3.13	21.03	<=34.77	Pass
			6	20.15	3.13	21.13	<=34.77	Pass
			13	20.17	3.13	21.15	<=34.77	Pass
		25	0	20.13	3.13	21.11	<=34.77	Pass
	710	1	0	21.34	3.13	22.32	<=34.77	Pass
			13	21.31	3.13	22.29	<=34.77	Pass
			24	21.38	3.13	22.36	<=34.77	Pass
		12	0	20.19	3.13	21.17	<=34.77	Pass
			6	20.15	3.13	21.13	<=34.77	Pass
			13	20.07	3.13	21.05	<=34.77	Pass
		25	0	20.25	3.13	21.23	<=34.77	Pass
	713.5	1	0	21.37	3.13	22.35	<=34.77	Pass
			13	21.43	3.13	22.41	<=34.77	Pass
			24	21.46	3.13	22.44	<=34.77	Pass
		12	0	20.22	3.13	21.20	<=34.77	Pass
			6	20.23	3.13	21.21	<=34.77	Pass
			13	20.30	3.13	21.28	<=34.77	Pass
		25	0	20.32	3.13	21.30	<=34.77	Pass
64QAM	706.5	1	0	20.59	3.13	21.57	<=34.77	Pass
			13	20.61	3.13	21.59	<=34.77	Pass
			24	20.63	3.13	21.61	<=34.77	Pass
		12	0	19.26	3.13	20.24	<=34.77	Pass
			6	19.35	3.13	20.33	<=34.77	Pass
			13	19.35	3.13	20.33	<=34.77	Pass
		25	0	19.22	3.13	20.20	<=34.77	Pass

	710	1	0	20.40	3.13	21.38	<=34.77	Pass
			13	20.45	3.13	21.43	<=34.77	Pass
			24	20.48	3.13	21.46	<=34.77	Pass
		12	0	19.31	3.13	20.29	<=34.77	Pass
			6	19.30	3.13	20.28	<=34.77	Pass
			13	19.22	3.13	20.20	<=34.77	Pass
		25	0	19.36	3.13	20.34	<=34.77	Pass
	713.5	1	0	20.28	3.13	21.26	<=34.77	Pass
			13	20.39	3.13	21.37	<=34.77	Pass
			24	20.41	3.13	21.39	<=34.77	Pass
		12	0	19.36	3.13	20.34	<=34.77	Pass
			6	19.35	3.13	20.33	<=34.77	Pass
			13	19.41	3.13	20.39	<=34.77	Pass
		25	0	19.45	3.13	20.43	<=34.77	Pass
256QAM	706.5	1	0	17.37	3.13	18.35	<=34.77	Pass
			13	17.37	3.13	18.35	<=34.77	Pass
			24	17.40	3.13	18.38	<=34.77	Pass
		12	0	17.20	3.13	18.18	<=34.77	Pass
			6	17.27	3.13	18.25	<=34.77	Pass
			13	17.28	3.13	18.26	<=34.77	Pass
		25	0	17.27	3.13	18.25	<=34.77	Pass
	710	1	0	17.54	3.13	18.52	<=34.77	Pass
			13	17.56	3.13	18.54	<=34.77	Pass
			24	17.60	3.13	18.58	<=34.77	Pass
		12	0	17.39	3.13	18.37	<=34.77	Pass
			6	17.35	3.13	18.33	<=34.77	Pass
			13	17.29	3.13	18.27	<=34.77	Pass
		25	0	17.30	3.13	18.28	<=34.77	Pass
	713.5	1	0	17.15	3.13	18.13	<=34.77	Pass
			13	17.22	3.13	18.20	<=34.77	Pass
			24	17.31	3.13	18.29	<=34.77	Pass
		12	0	17.32	3.13	18.30	<=34.77	Pass
			6	17.34	3.13	18.32	<=34.77	Pass
			13	17.41	3.13	18.39	<=34.77	Pass
		25	0	17.46	3.13	18.44	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.1.2 B17_10MHz_ERP

Band: 17 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	709	1	0	22.15	3.13	23.13	<=34.77	Pass
			25	22.32	3.13	23.30	<=34.77	Pass
			49	22.23	3.13	23.21	<=34.77	Pass
		25	0	21.09	3.13	22.07	<=34.77	Pass
			13	21.21	3.13	22.19	<=34.77	Pass
			25	21.08	3.13	22.06	<=34.77	Pass
		50	0	21.14	3.13	22.12	<=34.77	Pass
	710	1	0	22.16	3.13	23.14	<=34.77	Pass
			25	22.23	3.13	23.21	<=34.77	Pass
			49	22.27	3.13	23.25	<=34.77	Pass
		25	0	21.18	3.13	22.16	<=34.77	Pass
			13	21.22	3.13	22.20	<=34.77	Pass
			25	21.20	3.13	22.18	<=34.77	Pass
		50	0	21.22	3.13	22.20	<=34.77	Pass
	711	1	0	22.24	3.13	23.22	<=34.77	Pass

		25	25	22.33	3.13	23.31	<=34.77	Pass
			49	22.35	3.13	23.33	<=34.77	Pass
			0	21.23	3.13	22.21	<=34.77	Pass
			13	21.19	3.13	22.17	<=34.77	Pass
			25	21.33	3.13	22.31	<=34.77	Pass
16QAM	709	50	0	21.29	3.13	22.27	<=34.77	Pass
			0	21.34	3.13	22.32	<=34.77	Pass
			25	21.47	3.13	22.45	<=34.77	Pass
		1	49	21.43	3.13	22.41	<=34.77	Pass
			0	20.14	3.13	21.12	<=34.77	Pass
			13	20.28	3.13	21.26	<=34.77	Pass
		25	25	20.11	3.13	21.09	<=34.77	Pass
			0	20.09	3.13	21.07	<=34.77	Pass
			0	21.24	3.13	22.22	<=34.77	Pass
	710	1	25	21.27	3.13	22.25	<=34.77	Pass
			49	21.36	3.13	22.34	<=34.77	Pass
			0	20.19	3.13	21.17	<=34.77	Pass
		25	13	20.21	3.13	21.19	<=34.77	Pass
			25	20.21	3.13	21.19	<=34.77	Pass
			0	20.17	3.13	21.15	<=34.77	Pass
		50	0	21.06	3.13	22.04	<=34.77	Pass
			25	21.18	3.13	22.16	<=34.77	Pass
			49	21.23	3.13	22.21	<=34.77	Pass
	711	1	0	20.26	3.13	21.24	<=34.77	Pass
			13	20.22	3.13	21.20	<=34.77	Pass
			25	20.29	3.13	21.27	<=34.77	Pass
		25	0	20.28	3.13	21.26	<=34.77	Pass
			0	20.46	3.13	21.44	<=34.77	Pass
			25	20.64	3.13	21.62	<=34.77	Pass
		50	49	20.53	3.13	21.51	<=34.77	Pass
			0	19.20	3.13	20.18	<=34.77	Pass
			13	19.35	3.13	20.33	<=34.77	Pass
64QAM	709	25	25	19.22	3.13	20.20	<=34.77	Pass
			0	19.24	3.13	20.22	<=34.77	Pass
			0	20.61	3.13	21.59	<=34.77	Pass
		1	25	20.80	3.13	21.78	<=34.77	Pass
			49	20.74	3.13	21.72	<=34.77	Pass
			0	19.33	3.13	20.31	<=34.77	Pass
		25	13	19.38	3.13	20.36	<=34.77	Pass
			25	19.37	3.13	20.35	<=34.77	Pass
			0	19.32	3.13	20.30	<=34.77	Pass
	710	50	0	20.11	3.13	21.09	<=34.77	Pass
			25	20.20	3.13	21.18	<=34.77	Pass
			49	20.25	3.13	21.23	<=34.77	Pass
		1	0	19.29	3.13	20.27	<=34.77	Pass
			13	19.24	3.13	20.22	<=34.77	Pass
			25	19.34	3.13	20.32	<=34.77	Pass
		25	0	19.38	3.13	20.36	<=34.77	Pass
			0	17.32	3.13	18.30	<=34.77	Pass
			25	17.45	3.13	18.43	<=34.77	Pass
256QAM	709	1	49	17.39	3.13	18.37	<=34.77	Pass
			0	17.24	3.13	18.22	<=34.77	Pass
			13	17.30	3.13	18.28	<=34.77	Pass
		25	25	17.20	3.13	18.18	<=34.77	Pass
			0	17.20	3.13	18.18	<=34.77	Pass
			0	17.52	3.13	18.50	<=34.77	Pass
		1	25	17.61	3.13	18.59	<=34.77	Pass
			49	17.55	3.13	18.53	<=34.77	Pass
			0	17.25	3.13	18.23	<=34.77	Pass

			13	17.33	3.13	18.31	<=34.77	Pass
			25	17.29	3.13	18.27	<=34.77	Pass
		50	0	17.31	3.13	18.29	<=34.77	Pass
	711	1	0	17.11	3.13	18.09	<=34.77	Pass
			25	17.15	3.13	18.13	<=34.77	Pass
			49	17.21	3.13	18.19	<=34.77	Pass
		25	0	17.34	3.13	18.32	<=34.77	Pass
			13	17.32	3.13	18.30	<=34.77	Pass
			25	17.46	3.13	18.44	<=34.77	Pass
		50	0	17.40	3.13	18.38	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

2. Field Strength of Spurious Radiation

Test Band = LTE_17_TM1

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1409	58.44	-46.76	24.97	-58.61	-13.00	45.61	Horizontal
2	1812.5	56.63	-46.60	25.45	-59.78	-13.00	46.78	Horizontal
3	1937.5	57.01	-46.46	25.48	-59.23	-13.00	46.23	Horizontal
4	3187.5	49.32	-44.73	28.48	-62.19	-13.00	49.19	Horizontal
5	6050.5	44.85	-40.83	33.50	-57.74	-13.00	44.74	Horizontal
6	9927.5	41.56	-34.98	38.63	-50.05	-13.00	37.05	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1409	54.57	-46.76	24.97	-62.48	-13.00	49.48	Vertical
2	1937.5	50.00	-46.46	25.48	-66.24	-13.00	53.24	Vertical
3	3187.5	48.58	-44.73	28.48	-62.93	-13.00	49.93	Vertical
4	5323	45.46	-41.81	32.04	-59.57	-13.00	46.57	Vertical
5	7216	43.85	-38.38	36.50	-53.29	-13.00	40.29	Vertical
6	9943.5	41.95	-34.93	38.64	-49.60	-13.00	36.60	Vertical

Test Band = LTE_17_TM1
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1411	57.66	-46.76	24.99	-59.37	-13.00	46.37	Horizontal
2	1812.5	56.53	-46.60	25.45	-59.88	-13.00	46.88	Horizontal
3	1937.5	56.95	-46.46	25.48	-59.29	-13.00	46.29	Horizontal
4	3187.5	49.52	-44.73	28.48	-61.99	-13.00	48.99	Horizontal
5	5951.5	44.78	-40.73	32.90	-58.31	-13.00	45.31	Horizontal
6	9343.5	42.42	-35.22	37.36	-50.70	-13.00	37.70	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1411	53.33	-46.76	24.99	-63.70	-13.00	50.70	Vertical
2	1937.5	49.91	-46.46	25.48	-66.33	-13.00	53.33	Vertical
3	3062.5	47.93	-45.30	28.83	-63.80	-13.00	50.80	Vertical
4	5096	45.35	-42.58	31.51	-60.98	-13.00	47.98	Vertical
5	7036	43.18	-38.91	36.03	-54.96	-13.00	41.96	Vertical
6	9928.5	41.76	-34.97	38.63	-49.84	-13.00	36.84	Vertical

Test Band = LTE_17_TM1
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413	57.58	-46.76	25.00	-59.44	-13.00	46.44	Horizontal
2	1812.5	56.23	-46.60	25.45	-60.18	-13.00	47.18	Horizontal
3	1937.5	56.53	-46.46	25.48	-59.71	-13.00	46.71	Horizontal
4	3062.5	49.70	-45.30	28.83	-62.03	-13.00	49.03	Horizontal
5	5117	45.20	-42.50	31.60	-60.96	-13.00	47.96	Horizontal
6	9341	42.51	-35.22	37.35	-50.62	-13.00	37.62	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413	53.43	-46.76	25.00	-63.59	-13.00	50.59	Vertical
2	1937.5	49.75	-46.46	25.48	-66.49	-13.00	53.49	Vertical
3	3187.5	49.00	-44.73	28.48	-62.51	-13.00	49.51	Vertical
4	4989.5	45.44	-42.60	31.16	-61.26	-13.00	48.26	Vertical
5	7682	43.12	-37.51	36.73	-52.92	-13.00	39.92	Vertical
6	9945.5	41.49	-34.92	38.65	-50.04	-13.00	37.04	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---