

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B14_5MHz_ERP

Band: 14 / Bandwidth: 5MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	790.5	1	0	22.74	2.41	23.00	<=34.77	Pass
			13	22.70	2.41	22.96	<=34.77	Pass
			24	22.68	2.41	22.94	<=34.77	Pass
		12	0	21.57	2.41	21.83	<=34.77	Pass
			6	21.61	2.41	21.87	<=34.77	Pass
			13	21.58	2.41	21.84	<=34.77	Pass
		25	0	21.61	2.41	21.87	<=34.77	Pass
	793	1	0	22.61	2.41	22.87	<=34.77	Pass
			13	22.60	2.41	22.86	<=34.77	Pass
			24	22.62	2.41	22.88	<=34.77	Pass
		12	0	21.54	2.41	21.80	<=34.77	Pass
			6	21.59	2.41	21.85	<=34.77	Pass
			13	21.58	2.41	21.84	<=34.77	Pass
		25	0	21.52	2.41	21.78	<=34.77	Pass
	795.5	1	0	22.51	2.41	22.77	<=34.77	Pass
			13	22.51	2.41	22.77	<=34.77	Pass
			24	22.49	2.41	22.75	<=34.77	Pass
		12	0	21.49	2.41	21.75	<=34.77	Pass
			6	21.48	2.41	21.74	<=34.77	Pass
			13	21.39	2.41	21.65	<=34.77	Pass
		25	0	21.46	2.41	21.72	<=34.77	Pass
16QAM	790.5	1	0	21.80	2.41	22.06	<=34.77	Pass
			13	21.82	2.41	22.08	<=34.77	Pass
			24	21.74	2.41	22.00	<=34.77	Pass
		12	0	20.53	2.41	20.79	<=34.77	Pass
			6	20.54	2.41	20.80	<=34.77	Pass
			13	20.58	2.41	20.84	<=34.77	Pass
		25	0	20.60	2.41	20.86	<=34.77	Pass
	793	1	0	21.71	2.41	21.97	<=34.77	Pass
			13	21.67	2.41	21.93	<=34.77	Pass
			24	21.64	2.41	21.90	<=34.77	Pass
		12	0	20.43	2.41	20.69	<=34.77	Pass
			6	20.49	2.41	20.75	<=34.77	Pass
			13	20.52	2.41	20.78	<=34.77	Pass
		25	0	20.50	2.41	20.76	<=34.77	Pass
	795.5	1	0	21.74	2.41	22.00	<=34.77	Pass
			13	21.72	2.41	21.98	<=34.77	Pass
			24	21.69	2.41	21.95	<=34.77	Pass
		12	0	20.51	2.41	20.77	<=34.77	Pass
			6	20.49	2.41	20.75	<=34.77	Pass
			13	20.40	2.41	20.66	<=34.77	Pass
		25	0	20.48	2.41	20.74	<=34.77	Pass
64QAM	790.5	1	0	20.87	2.41	21.13	<=34.77	Pass
			13	20.83	2.41	21.09	<=34.77	Pass
			24	20.76	2.41	21.02	<=34.77	Pass
		12	0	19.50	2.41	19.76	<=34.77	Pass
			6	19.53	2.41	19.79	<=34.77	Pass
			13	19.56	2.41	19.82	<=34.77	Pass
		25	0	19.56	2.41	19.82	<=34.77	Pass

	793	1	0	20.66	2.41	20.92	<=34.77	Pass
			13	20.65	2.41	20.91	<=34.77	Pass
			24	20.58	2.41	20.84	<=34.77	Pass
		12	0	19.41	2.41	19.67	<=34.77	Pass
			6	19.46	2.41	19.72	<=34.77	Pass
			13	19.46	2.41	19.72	<=34.77	Pass
		25	0	19.49	2.41	19.75	<=34.77	Pass
	795.5	1	0	20.97	2.41	21.23	<=34.77	Pass
			13	20.94	2.41	21.20	<=34.77	Pass
			24	20.86	2.41	21.12	<=34.77	Pass
		12	0	19.55	2.41	19.81	<=34.77	Pass
			6	19.55	2.41	19.81	<=34.77	Pass
			13	19.47	2.41	19.73	<=34.77	Pass
		25	0	19.43	2.41	19.69	<=34.77	Pass
256QAM	790.5	1	0	17.97	2.41	18.23	<=34.77	Pass
			13	17.97	2.41	18.23	<=34.77	Pass
			24	17.89	2.41	18.15	<=34.77	Pass
		12	0	17.68	2.41	17.94	<=34.77	Pass
			6	17.67	2.41	17.93	<=34.77	Pass
			13	17.69	2.41	17.95	<=34.77	Pass
		25	0	17.70	2.41	17.96	<=34.77	Pass
	793	1	0	17.50	2.41	17.76	<=34.77	Pass
			13	17.36	2.41	17.62	<=34.77	Pass
			24	17.51	2.41	17.77	<=34.77	Pass
		12	0	17.56	2.41	17.82	<=34.77	Pass
			6	17.61	2.41	17.87	<=34.77	Pass
			13	17.59	2.41	17.85	<=34.77	Pass
		25	0	17.68	2.41	17.94	<=34.77	Pass
	795.5	1	0	17.77	2.41	18.03	<=34.77	Pass
			13	17.74	2.41	18.00	<=34.77	Pass
			24	17.73	2.41	17.99	<=34.77	Pass
		12	0	17.63	2.41	17.89	<=34.77	Pass
			6	17.63	2.41	17.89	<=34.77	Pass
			13	17.52	2.41	17.78	<=34.77	Pass
		25	0	17.59	2.41	17.85	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.1.2 B14_10MHz_ERP

Band: 14 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	793	1	0	22.66	2.41	22.92	<=34.77	Pass
			25	22.61	2.41	22.87	<=34.77	Pass
			49	22.59	2.41	22.85	<=34.77	Pass
		25	0	21.47	2.41	21.73	<=34.77	Pass
			13	21.52	2.41	21.78	<=34.77	Pass
			25	21.48	2.41	21.74	<=34.77	Pass
		50	0	21.48	2.41	21.74	<=34.77	Pass
16QAM	793	1	0	21.85	2.41	22.11	<=34.77	Pass
			25	21.79	2.41	22.05	<=34.77	Pass
			49	21.73	2.41	21.99	<=34.77	Pass
		25	0	20.54	2.41	20.80	<=34.77	Pass
			13	20.59	2.41	20.85	<=34.77	Pass
			25	20.55	2.41	20.81	<=34.77	Pass
		50	0	20.48	2.41	20.74	<=34.77	Pass
64QAM	793	1	0	20.95	2.41	21.21	<=34.77	Pass

			25	20.94	2.41	21.20	<=34.77	Pass
			49	20.87	2.41	21.13	<=34.77	Pass
		25	0	19.44	2.41	19.70	<=34.77	Pass
			13	19.51	2.41	19.77	<=34.77	Pass
			25	19.48	2.41	19.74	<=34.77	Pass
		50	0	19.49	2.41	19.75	<=34.77	Pass
256QAM	793	1	0	17.79	2.41	18.05	<=34.77	Pass
			25	17.75	2.41	18.01	<=34.77	Pass
			49	17.68	2.41	17.94	<=34.77	Pass
		25	0	17.63	2.41	17.89	<=34.77	Pass
			13	17.69	2.41	17.95	<=34.77	Pass
			25	17.68	2.41	17.94	<=34.77	Pass
		50	0	17.63	2.41	17.89	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

2. Field Strength of Spurious Radiation

Test Band = LTE_14_5MHz_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	1576.5	49.83	-46.89	24.68	-67.64	-40.00	27.64	Horizontal
2	1812.5	56.94	-46.60	25.45	-59.47	-13.00	46.47	Horizontal
3	1937.5	56.16	-46.46	25.48	-60.08	-13.00	47.08	Horizontal
4	3187.5	49.28	-44.73	28.48	-62.23	-13.00	49.23	Horizontal
5	5201	45.09	-42.07	31.89	-60.35	-13.00	47.35	Horizontal
6	9517.5	42.04	-35.09	37.80	-50.51	-13.00	37.51	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1576.5	50.27	-46.89	24.68	-67.20	-40.00	27.20	Vertical
2	1812.5	52.71	-46.60	25.45	-63.70	-13.00	50.70	Vertical
3	1937.5	52.94	-46.46	25.48	-63.30	-13.00	50.30	Vertical
4	3187.5	49.90	-44.73	28.48	-61.61	-13.00	48.61	Vertical
5	6315.5	44.22	-40.47	33.62	-57.89	-13.00	44.89	Vertical
6	9342.5	42.23	-35.22	37.36	-50.89	-13.00	37.89	Vertical

Test Band = LTE_14_5MHz_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	1581.5	50.23	-46.91	24.77	-67.17	-40.00	27.17	Horizontal
2	1812.5	56.95	-46.60	25.45	-59.46	-13.00	46.46	Horizontal
3	1937.5	56.10	-46.46	25.48	-60.14	-13.00	47.14	Horizontal
4	3187.5	49.78	-44.73	28.48	-61.73	-13.00	48.73	Horizontal
5	5595.5	45.19	-41.44	32.56	-58.95	-13.00	45.95	Horizontal
6	9816.5	41.19	-34.84	38.40	-50.51	-13.00	37.51	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1582	49.47	-46.91	24.78	-67.92	-40.00	27.92	Vertical
2	1812.5	52.26	-46.60	25.45	-64.15	-13.00	51.15	Vertical
3	1937.5	52.95	-46.46	25.48	-63.29	-13.00	50.29	Vertical
4	3187.5	49.88	-44.73	28.48	-61.63	-13.00	48.63	Vertical
5	5950.5	44.44	-40.74	32.90	-58.66	-13.00	45.66	Vertical
6	9341	42.55	-35.22	37.35	-50.58	-13.00	37.58	Vertical

Test Band = LTE_14_5MHz_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	1586.5	50.25	-46.92	24.86	-67.07	-40.00	27.07	Horizontal
2	1812.5	56.84	-46.60	25.45	-59.57	-13.00	46.57	Horizontal
3	1937.5	56.72	-46.46	25.48	-59.52	-13.00	46.52	Horizontal
4	3187.5	49.40	-44.73	28.48	-62.11	-13.00	49.11	Horizontal
5	5420	45.22	-41.81	32.38	-59.47	-13.00	46.47	Horizontal
6	9549.5	42.05	-35.28	37.80	-50.69	-13.00	37.69	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1586.5	48.83	-46.92	24.86	-68.49	-40.00	28.49	Vertical
2	1812.5	53.04	-46.60	25.45	-63.37	-13.00	50.37	Vertical
3	1937.5	53.28	-46.46	25.48	-62.96	-13.00	49.96	Vertical
4	3187.5	50.44	-44.73	28.48	-61.07	-13.00	48.07	Vertical
5	5602	45.09	-41.41	32.60	-58.98	-13.00	45.98	Vertical
6	9923	41.45	-34.99	38.62	-50.18	-13.00	37.18	Vertical

Test Band = LTE_14_10MHz_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	1577	50.03	-46.90	24.69	-67.44	-40.00	27.44	Horizontal
2	1812.5	56.99	-46.60	25.45	-59.42	-13.00	46.42	Horizontal
3	1937.5	56.51	-46.46	25.48	-59.73	-13.00	46.73	Horizontal
4	3062.5	49.50	-45.30	28.83	-62.23	-13.00	49.23	Horizontal
5	4919.5	45.41	-42.65	30.94	-61.56	-13.00	48.56	Horizontal
6	9519.5	41.97	-35.10	37.80	-50.59	-13.00	37.59	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1577	49.59	-46.90	24.69	-67.88	-40.00	27.88	Vertical
2	1812.5	52.37	-46.60	25.45	-64.04	-13.00	51.04	Vertical
3	1937.5	53.42	-46.46	25.48	-62.82	-13.00	49.82	Vertical
4	3187.5	50.01	-44.73	28.48	-61.50	-13.00	48.50	Vertical
5	5366.5	45.12	-41.64	32.30	-59.48	-13.00	46.48	Vertical
6	9512.5	41.69	-35.06	37.80	-50.83	-13.00	37.83	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---