

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B5_1.4MHz_ERP

Band: 5 / Bandwidth: 1.4MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	824.7	1	0	23.44	1.42	22.71	<=38.45	Pass
			2	23.61	1.42	22.88	<=38.45	Pass
			5	23.55	1.42	22.82	<=38.45	Pass
		3	0	23.63	1.42	22.90	<=38.45	Pass
			2	23.67	1.42	22.94	<=38.45	Pass
			3	23.62	1.42	22.89	<=38.45	Pass
		6	0	22.58	1.42	21.85	<=38.45	Pass
	836.5	1	0	23.49	1.42	22.76	<=38.45	Pass
			2	23.63	1.42	22.90	<=38.45	Pass
			5	23.52	1.42	22.79	<=38.45	Pass
		3	0	23.54	1.42	22.81	<=38.45	Pass
			2	23.62	1.42	22.89	<=38.45	Pass
			3	23.56	1.42	22.83	<=38.45	Pass
		6	0	22.55	1.42	21.82	<=38.45	Pass
	848.3	1	0	23.38	1.42	22.65	<=38.45	Pass
			2	23.42	1.42	22.69	<=38.45	Pass
			5	23.39	1.42	22.66	<=38.45	Pass
		3	0	23.33	1.42	22.60	<=38.45	Pass
			2	23.42	1.42	22.69	<=38.45	Pass
			3	23.35	1.42	22.62	<=38.45	Pass
		6	0	22.43	1.42	21.70	<=38.45	Pass
16QAM	824.7	1	0	22.70	1.42	21.97	<=38.45	Pass
			2	22.75	1.42	22.02	<=38.45	Pass
			5	22.71	1.42	21.98	<=38.45	Pass
		3	0	22.77	1.42	22.04	<=38.45	Pass
			2	22.84	1.42	22.11	<=38.45	Pass
			3	22.78	1.42	22.05	<=38.45	Pass
		6	0	21.56	1.42	20.83	<=38.45	Pass
	836.5	1	0	22.57	1.42	21.84	<=38.45	Pass
			2	22.60	1.42	21.87	<=38.45	Pass
			5	22.56	1.42	21.83	<=38.45	Pass
		3	0	22.65	1.42	21.92	<=38.45	Pass
			2	22.66	1.42	21.93	<=38.45	Pass
			3	22.60	1.42	21.87	<=38.45	Pass
		6	0	21.49	1.42	20.76	<=38.45	Pass
	848.3	1	0	22.38	1.42	21.65	<=38.45	Pass
			2	22.43	1.42	21.70	<=38.45	Pass
			5	22.37	1.42	21.64	<=38.45	Pass
		3	0	22.38	1.42	21.65	<=38.45	Pass
			2	22.44	1.42	21.71	<=38.45	Pass
			3	22.41	1.42	21.68	<=38.45	Pass
		6	0	21.30	1.42	20.57	<=38.45	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.1.2 B5_3MHz_ERP

Band: 5 / Bandwidth: 3MHz / NTNV

Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	825.5	1	0	23.56	1.42	22.83	<=38.45	Pass	
			7	23.61	1.42	22.88	<=38.45	Pass	
			14	23.53	1.42	22.80	<=38.45	Pass	
		8	0	22.61	1.42	21.88	<=38.45	Pass	
			4	22.67	1.42	21.94	<=38.45	Pass	
			7	22.58	1.42	21.85	<=38.45	Pass	
		15	0	22.63	1.42	21.90	<=38.45	Pass	
		836.5	1	0	23.65	1.42	22.92	<=38.45	Pass
				7	23.69	1.42	22.96	<=38.45	Pass
	14			23.57	1.42	22.84	<=38.45	Pass	
	8		0	22.65	1.42	21.92	<=38.45	Pass	
			4	22.66	1.42	21.93	<=38.45	Pass	
			7	22.63	1.42	21.90	<=38.45	Pass	
	15	0	22.63	1.42	21.90	<=38.45	Pass		
	847.5	1	0	23.39	1.42	22.66	<=38.45	Pass	
			7	23.52	1.42	22.79	<=38.45	Pass	
			14	23.43	1.42	22.70	<=38.45	Pass	
		8	0	22.47	1.42	21.74	<=38.45	Pass	
			4	22.47	1.42	21.74	<=38.45	Pass	
			7	22.46	1.42	21.73	<=38.45	Pass	
		15	0	22.44	1.42	21.71	<=38.45	Pass	
16QAM		825.5	1	0	23.15	1.42	22.42	<=38.45	Pass
				7	23.20	1.42	22.47	<=38.45	Pass
	14			23.10	1.42	22.37	<=38.45	Pass	
	8		0	21.82	1.42	21.09	<=38.45	Pass	
			4	21.83	1.42	21.10	<=38.45	Pass	
			7	21.80	1.42	21.07	<=38.45	Pass	
	15		0	21.75	1.42	21.02	<=38.45	Pass	
	836.5	1	0	22.65	1.42	21.92	<=38.45	Pass	
			7	22.71	1.42	21.98	<=38.45	Pass	
			14	22.56	1.42	21.83	<=38.45	Pass	
		8	0	21.70	1.42	20.97	<=38.45	Pass	
			4	21.74	1.42	21.01	<=38.45	Pass	
			7	21.70	1.42	20.97	<=38.45	Pass	
	15	0	21.72	1.42	20.99	<=38.45	Pass		
	847.5	1	0	22.46	1.42	21.73	<=38.45	Pass	
			7	22.48	1.42	21.75	<=38.45	Pass	
			14	22.42	1.42	21.69	<=38.45	Pass	
		8	0	21.50	1.42	20.77	<=38.45	Pass	
			4	21.55	1.42	20.82	<=38.45	Pass	
			7	21.50	1.42	20.77	<=38.45	Pass	
		15	0	21.51	1.42	20.78	<=38.45	Pass	
Note1: ERP=Conducted Power+Antenna Gain-2.15									

1.1.3 B5_5MHz_ERP

Band: 5 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	826.5	1	0	23.57	1.42	22.84	<=38.45	Pass
			13	23.64	1.42	22.91	<=38.45	Pass
			24	23.57	1.42	22.84	<=38.45	Pass
		12	0	22.68	1.42	21.95	<=38.45	Pass
			6	22.63	1.42	21.90	<=38.45	Pass
			13	22.60	1.42	21.87	<=38.45	Pass

		25	0	22.65	1.42	21.92	<=38.45	Pass
	836.5	1	0	23.60	1.42	22.87	<=38.45	Pass
			13	23.64	1.42	22.91	<=38.45	Pass
			24	23.54	1.42	22.81	<=38.45	Pass
			0	22.64	1.42	21.91	<=38.45	Pass
		12	6	22.65	1.42	21.92	<=38.45	Pass
			13	22.61	1.42	21.88	<=38.45	Pass
			25	0	22.65	1.42	21.92	<=38.45
	846.5	1	0	23.40	1.42	22.67	<=38.45	Pass
			13	23.44	1.42	22.71	<=38.45	Pass
			24	23.37	1.42	22.64	<=38.45	Pass
		12	0	22.44	1.42	21.71	<=38.45	Pass
			6	22.47	1.42	21.74	<=38.45	Pass
			13	22.45	1.42	21.72	<=38.45	Pass
		25	0	22.46	1.42	21.73	<=38.45	Pass
16QAM	826.5	1	0	22.47	1.42	21.74	<=38.45	Pass
			13	22.53	1.42	21.80	<=38.45	Pass
			24	22.46	1.42	21.73	<=38.45	Pass
		12	0	21.72	1.42	20.99	<=38.45	Pass
			6	21.73	1.42	21.00	<=38.45	Pass
			13	21.69	1.42	20.96	<=38.45	Pass
		25	0	21.68	1.42	20.95	<=38.45	Pass
	836.5	1	0	22.67	1.42	21.94	<=38.45	Pass
			13	22.71	1.42	21.98	<=38.45	Pass
			24	22.62	1.42	21.89	<=38.45	Pass
		12	0	21.69	1.42	20.96	<=38.45	Pass
			6	21.65	1.42	20.92	<=38.45	Pass
			13	21.56	1.42	20.83	<=38.45	Pass
		25	0	21.63	1.42	20.90	<=38.45	Pass
	846.5	1	0	22.66	1.42	21.93	<=38.45	Pass
			13	22.70	1.42	21.97	<=38.45	Pass
			24	22.60	1.42	21.87	<=38.45	Pass
		12	0	21.56	1.42	20.83	<=38.45	Pass
			6	21.51	1.42	20.78	<=38.45	Pass
			13	21.51	1.42	20.78	<=38.45	Pass
		25	0	21.48	1.42	20.75	<=38.45	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.1.4 B5_10MHz_ERP

Band: 5 / Bandwidth: 10MHz / NTVN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	829	1	0	23.53	1.42	22.80	<=38.45	Pass
			25	23.48	1.42	22.75	<=38.45	Pass
			49	23.62	1.42	22.89	<=38.45	Pass
		25	0	22.67	1.42	21.94	<=38.45	Pass
			13	22.67	1.42	21.94	<=38.45	Pass
			25	22.66	1.42	21.93	<=38.45	Pass
		50	0	22.70	1.42	21.97	<=38.45	Pass
	836.5	1	0	23.60	1.42	22.87	<=38.45	Pass
			25	23.62	1.42	22.89	<=38.45	Pass
			49	23.46	1.42	22.73	<=38.45	Pass
		25	0	22.72	1.42	21.99	<=38.45	Pass
			13	22.74	1.42	22.01	<=38.45	Pass
			25	22.63	1.42	21.90	<=38.45	Pass
		50	0	22.67	1.42	21.94	<=38.45	Pass

	844	1	0	23.56	1.42	22.83	<=38.45	Pass		
			25	23.47	1.42	22.74	<=38.45	Pass		
			49	23.42	1.42	22.69	<=38.45	Pass		
		25	0	22.58	1.42	21.85	<=38.45	Pass		
			13	22.62	1.42	21.89	<=38.45	Pass		
			25	22.55	1.42	21.82	<=38.45	Pass		
		50	0	22.48	1.42	21.75	<=38.45	Pass		
		16QAM	829	1	0	22.74	1.42	22.01	<=38.45	Pass
					25	22.77	1.42	22.04	<=38.45	Pass
49	22.81				1.42	22.08	<=38.45	Pass		
25	0			21.73	1.42	21.00	<=38.45	Pass		
	13			21.75	1.42	21.02	<=38.45	Pass		
	25			21.74	1.42	21.01	<=38.45	Pass		
50	0			21.69	1.42	20.96	<=38.45	Pass		
836.5	1			0	23.15	1.42	22.42	<=38.45	Pass	
				25	23.12	1.42	22.39	<=38.45	Pass	
			49	23.04	1.42	22.31	<=38.45	Pass		
	25		0	21.78	1.42	21.05	<=38.45	Pass		
			13	21.78	1.42	21.05	<=38.45	Pass		
			25	21.73	1.42	21.00	<=38.45	Pass		
50	0		21.70	1.42	20.97	<=38.45	Pass			
844	1		0	22.69	1.42	21.96	<=38.45	Pass		
		25	22.64	1.42	21.91	<=38.45	Pass			
		49	22.56	1.42	21.83	<=38.45	Pass			
	25	0	21.62	1.42	20.89	<=38.45	Pass			
		13	21.66	1.42	20.93	<=38.45	Pass			
		25	21.55	1.42	20.82	<=38.45	Pass			
	50	0	21.48	1.42	20.75	<=38.45	Pass			
Note1: ERP=Conducted Power+Antenna Gain-2.15										

2. Field Strength of Spurious Radiation

LTE Band 5-High channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1679.0	-71.53	-13	-58.53	-74.33	2.63	5.43	Horizontal	Pass
2518.5	-68.77	-13	-55.77	-71.55	3.08	5.86	Horizontal	Pass
3358.0	-66.8	-13	-53.8	-71.29	3.33	7.82	Horizontal	Pass
1679.0	-71.21	-13	-58.21	-74.01	2.63	5.43	Vertical	Pass
2518.5	-68.26	-13	-55.26	-71.04	3.08	5.86	Vertical	Pass
3358.0	-67.07	-13	-54.07	-71.56	3.33	7.82	Vertical	Pass

LTE Band 12-Low channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1399.0	-51.44	-13	-38.44	-54.21	2.47	5.24	Horizontal	Pass
2098.5	-69.17	-13	-56.17	-71.24	2.79	4.86	Horizontal	Pass
2798.0	-67.75	-13	-54.75	-71.11	3.12	6.48	Horizontal	Pass
1399.0	-53.28	-13	-40.28	-56.05	2.47	5.24	Vertical	Pass
2098.5	-68.22	-13	-55.22	-70.29	2.79	4.86	Vertical	Pass
2798.0	-68.01	-13	-55.01	-71.37	3.12	6.48	Vertical	Pass

LTE Band 12-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1406.0	-55.18	-13	-42.18	-57.98	2.48	5.28	Horizontal	Pass
2109.0	-68.49	-13	-55.49	-70.57	2.8	4.88	Horizontal	Pass
2812.0	-68.68	-13	-55.68	-72.07	3.12	6.51	Horizontal	Pass
1406.0	-52.23	-13	-39.23	-55.03	2.48	5.28	Vertical	Pass
2109.0	-68.32	-13	-55.32	-70.4	2.8	4.88	Vertical	Pass
2812.0	-68.55	-13	-55.55	-71.94	3.12	6.51	Vertical	Pass