

1.1.1 GSM850_ERP

Band: GSM850									
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict	
	Network	Subset				Result	Limit		
NTNV	GSM	GSM	824.2	31.85	-1.37	28.33	<=38.45	Pass	
			836.6	31.91	-1.37	28.39	<=38.45	Pass	
			848.8	31.75	-1.37	28.23	<=38.45	Pass	
	GPRS	1 TX Slot	824.2	31.90	-1.37	28.38	<=38.45	Pass	
		2 TX Slots	824.2	29.83	-1.37	26.31	<=38.45	Pass	
		3 TX Slots	824.2	28.05	-1.37	24.53	<=38.45	Pass	
		4 TX Slots	824.2	25.88	-1.37	22.36	<=38.45	Pass	
		1 TX Slot	836.6	31.84	-1.37	28.32	<=38.45	Pass	
		2 TX Slots	836.6	29.75	-1.37	26.23	<=38.45	Pass	
		3 TX Slots	836.6	27.99	-1.37	24.47	<=38.45	Pass	
		4 TX Slots	836.6	25.88	-1.37	22.36	<=38.45	Pass	
		1 TX Slot	848.8	31.65	-1.37	28.13	<=38.45	Pass	
		2 TX Slots	848.8	29.41	-1.37	25.89	<=38.45	Pass	
		3 TX Slots	848.8	27.62	-1.37	24.10	<=38.45	Pass	
		4 TX Slots	848.8	25.52	-1.37	22.00	<=38.45	Pass	
		EGPRS	1 TX Slot	824.2	24.81	-1.37	21.29	<=38.45	Pass
			2 TX Slots	824.2	23.21	-1.37	19.69	<=38.45	Pass
			3 TX Slots	824.2	20.82	-1.37	17.30	<=38.45	Pass
			4 TX Slots	824.2	18.56	-1.37	15.04	<=38.45	Pass
			1 TX Slot	836.6	24.82	-1.37	21.30	<=38.45	Pass
			2 TX Slots	836.6	23.41	-1.37	19.89	<=38.45	Pass
			3 TX Slots	836.6	21.10	-1.37	17.58	<=38.45	Pass
			4 TX Slots	836.6	18.46	-1.37	14.94	<=38.45	Pass
	1 TX Slot		848.8	24.58	-1.37	21.06	<=38.45	Pass	
	2 TX Slots		848.8	23.23	-1.37	19.71	<=38.45	Pass	
	3 TX Slots		848.8	20.96	-1.37	17.44	<=38.45	Pass	
	4 TX Slots		848.8	18.49	-1.37	14.97	<=38.45	Pass	
	Note1: ERP=Conducted Power+Antenna Gain-2.15								

2. Field Strength of Spurious Radiation

Test on the worst case

GSM850-Low channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1648.4	-47.13	-13	-34.13	-50.02	2.62	5.51	Horizontal	Pass
2472.6	-36.11	-13	-23.11	-38.8	3.06	5.75	Horizontal	Pass
3296.8	-64.4	-13	-51.4	-68.76	3.3	7.66	Horizontal	Pass
1648.4	-51.23	-13	-38.23	-54.12	2.62	5.51	Vertical	Pass
2472.6	-35.73	-13	-22.73	-38.42	3.06	5.75	Vertical	Pass
3296.8	-64.4	-13	-51.4	-68.76	3.3	7.66	Vertical	Pass

GSM850-Middle channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1673.2	-44.86	-13	-31.86	-47.67	2.63	5.44	Horizontal	Pass
2509.8	-35.29	-13	-22.29	-38.05	3.08	5.84	Horizontal	Pass
3346.4	-60.04	-13	-47.04	-64.51	3.32	7.79	Horizontal	Pass
1673.2	-51.78	-13	-38.78	-54.59	2.63	5.44	Vertical	Pass
2509.8	-32.0	-13	-19.0	-34.76	3.08	5.84	Vertical	Pass
3346.4	-61.6	-13	-48.6	-66.07	3.32	7.79	Vertical	Pass

GSM850-High channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1697.6	-50.46	-13	-37.46	-53.2	2.64	5.38	Horizontal	Pass
2546.4	-31.43	-13	-18.43	-34.26	3.09	5.92	Horizontal	Pass
3395.2	-59.98	-13	-46.98	-64.54	3.35	7.91	Horizontal	Pass
1697.6	-55.81	-13	-42.81	-58.55	2.64	5.38	Vertical	Pass
2546.4	-30.91	-13	-17.91	-33.74	3.09	5.92	Vertical	Pass
3395.2	-61.29	-13	-48.29	-65.85	3.35	7.91	Vertical	Pass