1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 GSM850_ERP

Band: GSM850								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	GPRS	1 TX Slot	824.2	32.90	-1.04	29.71	<=38.45	Pass
		2 TX Slots	824.2	30.51	-1.04	27.32	<=38.45	Pass
		3 TX Slots	824.2	28.54	-1.04	25.35	<=38.45	Pass
		4 TX Slots	824.2	26.43	-1.04	23.24	<=38.45	Pass
		1 TX Slot	836.6	32.86	-1.04	29.67	<=38.45	Pass
		2 TX Slots	836.6	30.31	-1.04	27.12	<=38.45	Pass
		3 TX Slots	836.6	28.34	-1.04	25.15	<=38.45	Pass
		4 TX Slots	836.6	26.26	-1.04	23.07	<=38.45	Pass
		1 TX Slot	848.8	32.65	-1.04	29.46	<=38.45	Pass
		2 TX Slots	848.8	30.07	-1.04	26.88	<=38.45	Pass
		3 TX Slots	848.8	28.08	-1.04	24.89	<=38.45	Pass
		4 TX Slots	848.8	25.96	-1.04	22.77	<=38.45	Pass
	EGPRS	1 TX Slot	824.2	26.62	-1.04	23.43	<=38.45	Pass
		2 TX Slots	824.2	24.86	-1.04	21.67	<=38.45	Pass
		3 TX Slots	824.2	22.24	-1.04	19.05	<=38.45	Pass
		4 TX Slots	824.2	19.80	-1.04	16.61	<=38.45	Pass
		1 TX Slot	836.6	26.56	-1.04	23.37	<=38.45	Pass
		2 TX Slots	836.6	24.83	-1.04	21.64	<=38.45	Pass
		3 TX Slots	836.6	22.36	-1.04	19.17	<=38.45	Pass
		4 TX Slots	836.6	20.01	-1.04	16.82	<=38.45	Pass
		1 TX Slot	848.8	26.31	-1.04	23.12	<=38.45	Pass
		2 TX Slots	848.8	24.73	-1.04	21.54	<=38.45	Pass
		3 TX Slots	848.8	22.10	-1.04	18.91	<=38.45	Pass
		4 TX Slots	848.8	19.74	-1.04	16.55	<=38.45	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

2. Frequency Stability

2.1 Test Result

2.1.1 GSM850

Band: GSM850							
Network	Frequency (MHz)	Temp. (°C)	Voltage	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
GPRS	824.2	20	LV	15.077	0.0183	-2.5 to 2.5	Pass
			NV	9.137	0.0111	-2.5 to 2.5	Pass
			HV	11.526	0.0140	-2.5 to 2.5	Pass
		-30	NV	10.654	0.0129	-2.5 to 2.5	Pass
		-20	NV	5.747	0.0070	-2.5 to 2.5	Pass
		-10	NV	11.139	0.0135	-2.5 to 2.5	Pass
		0	NV	15.982	0.0194	-2.5 to 2.5	Pass
		10	NV	14.851	0.0180	-2.5 to 2.5	Pass
		30	NV	18.952	0.0230	-2.5 to 2.5	Pass
		40	NV	13.399	0.0163	-2.5 to 2.5	Pass
		50	NV	11.687	0.0142	-2.5 to 2.5	Pass
	836.6	20	LV	14.109	0.0169	-2.5 to 2.5	Pass
			NV	10.687	0.0128	-2.5 to 2.5	Pass
			HV	10.557	0.0126	-2.5 to 2.5	Pass
		-30	NV	5.941	0.0071	-2.5 to 2.5	Pass
		-20	NV	6.554	0.0078	-2.5 to 2.5	Pass
		-10	NV	4.100	0.0049	-2.5 to 2.5	Pass
		0	NV	9.557	0.0114	-2.5 to 2.5	Pass
		10	NV	5.263	0.0063	-2.5 to 2.5	Pass
		30	NV	7.103	0.0085	-2.5 to 2.5	Pass
		40	NV	6.877	0.0082	-2.5 to 2.5	Pass
		50	NV	15.691	0.0188	-2.5 to 2.5	Pass
	848.8	20	LV	10.105	0.0119	-2.5 to 2.5	Pass
			NV	11.300	0.0133	-2.5 to 2.5	Pass
			HV	15.368	0.0181	-2.5 to 2.5	Pass
		-30	NV	13.237	0.0156	-2.5 to 2.5	Pass
		-20	NV	14.916	0.0176	-2.5 to 2.5	Pass
		-10	NV	11.655	0.0137	-2.5 to 2.5	Pass
		0	NV	13.786	0.0162	-2.5 to 2.5	Pass
		10	NV	11.946	0.0141	-2.5 to 2.5	Pass
		30	NV	16.143	0.0190	-2.5 to 2.5	Pass
		40	NV	12.753	0.0150	-2.5 to 2.5	Pass
		50	NV	9.008	0.0106	-2.5 to 2.5	Pass
EGPRS	824.2	20	LV	9.137	0.0111	-2.5 to 2.5	Pass
			NV	14.593	0.0177	-2.5 to 2.5	Pass
			HV	8.233	0.0100	-2.5 to 2.5	Pass
		-30	NV	5.521	0.0067	-2.5 to 2.5	Pass
		-20	NV	15.626	0.0190	-2.5 to 2.5	Pass
		-10	NV	15.303	0.0186	-2.5 to 2.5	Pass
		0	NV	11.655	0.0141	-2.5 to 2.5	Pass
		10	NV	14.561	0.0177	-2.5 to 2.5	Pass
		30	NV	17.305	0.0210	-2.5 to 2.5	Pass
		40	NV	12.753	0.0155	-2.5 to 2.5	Pass
		50	NV	8.330	0.0101	-2.5 to 2.5	Pass
	836.6	20	LV	5.489	0.0066	-2.5 to 2.5	Pass
			NV	15.917	0.0190	-2.5 to 2.5	Pass

			HV	10.622	0.0127	-2.5 to 2.5	Pass
		-30	NV	7.813	0.0093	-2.5 to 2.5	Pass
		-20	NV	9.944	0.0119	-2.5 to 2.5	Pass
		-10	NV	4.778	0.0057	-2.5 to 2.5	Pass
		0	NV	7.167	0.0086	-2.5 to 2.5	Pass
		10	NV	5.876	0.0070	-2.5 to 2.5	Pass
		30	NV	9.912	0.0118	-2.5 to 2.5	Pass
		40	NV	10.267	0.0123	-2.5 to 2.5	Pass
		50	NV	13.237	0.0158	-2.5 to 2.5	Pass
	848.8	20	LV	13.786	0.0162	-2.5 to 2.5	Pass
			NV	12.979	0.0153	-2.5 to 2.5	Pass
			HV	9.460	0.0111	-2.5 to 2.5	Pass
		-30	NV	11.106	0.0131	-2.5 to 2.5	Pass
		-20	NV	8.104	0.0095	-2.5 to 2.5	Pass
		-10	NV	6.683	0.0079	-2.5 to 2.5	Pass
		0	NV	9.492	0.0112	-2.5 to 2.5	Pass
		10	NV	7.232	0.0085	-2.5 to 2.5	Pass
		30	NV	9.395	0.0111	-2.5 to 2.5	Pass
		40	NV	14.658	0.0173	-2.5 to 2.5	Pass
		50	NV	7.490	0.0088	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 GSM850_OBW

Band: GSM850						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	824.2	0.243	/	Pass
			836.6	0.244	/	Pass
			848.8	0.241	/	Pass
	EGPRS	1 TX Slot	824.2	0.238	/	Pass
			836.6	0.241	/	Pass
			848.8	0.235	/	Pass

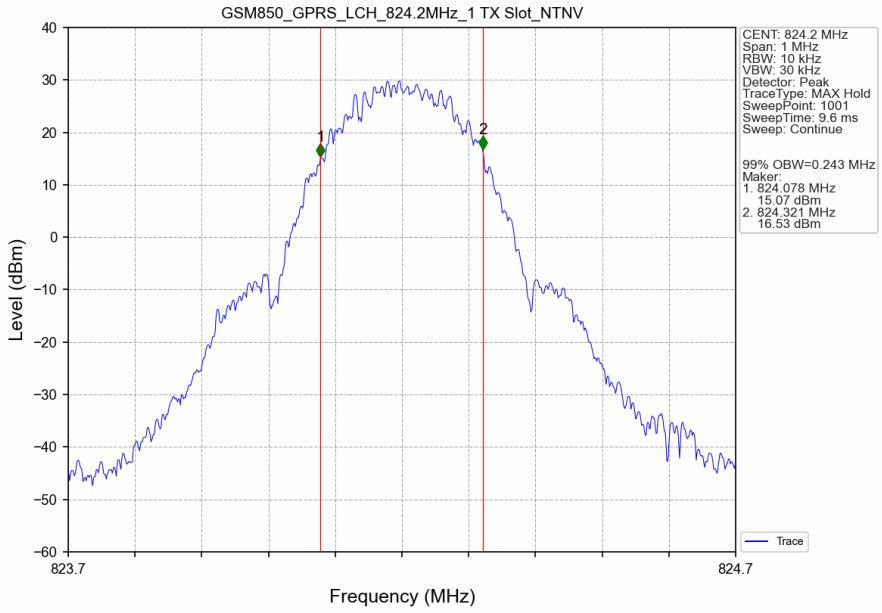
3.1.2 GSM850_XDB

Band: GSM850						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	824.2	0.313	/	Pass
			836.6	0.308	/	Pass
			848.8	0.323	/	Pass
	EGPRS	1 TX Slot	824.2	0.294	/	Pass
			836.6	0.304	/	Pass
			848.8	0.307	/	Pass

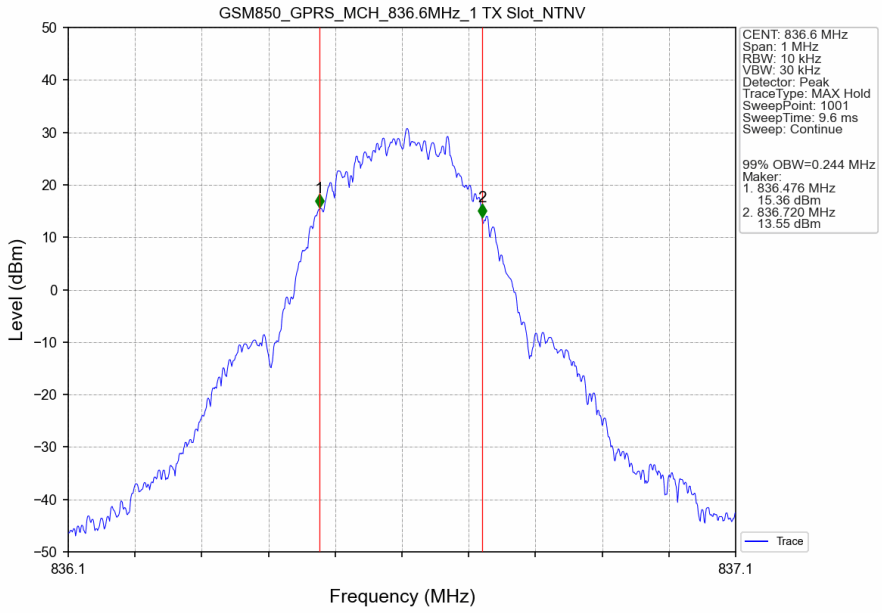
3.2 Test Graph

3.2.1 GSM850_OBW

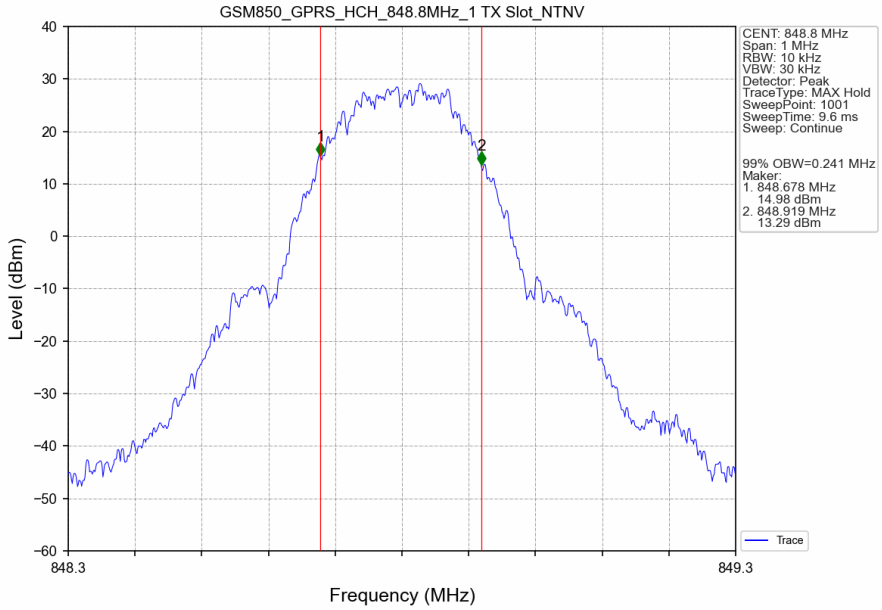
GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



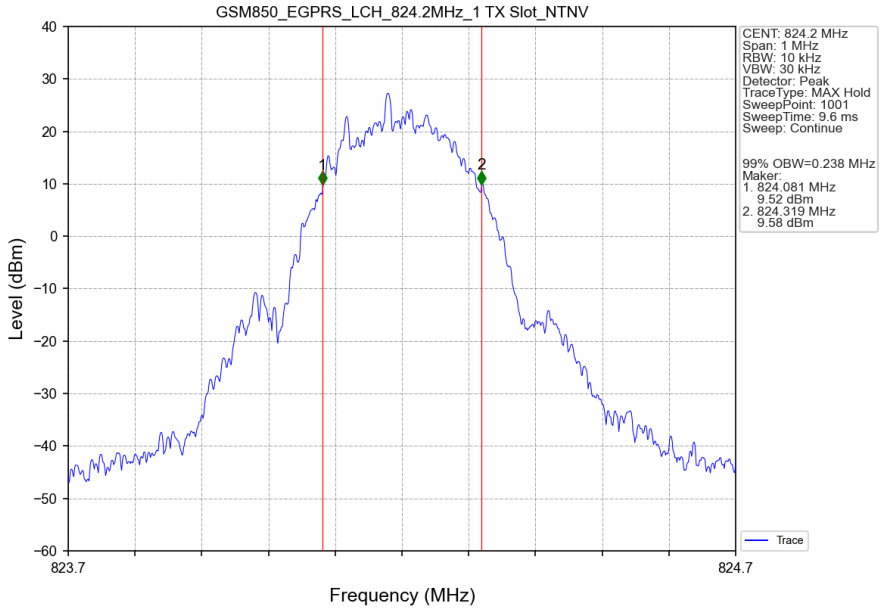
GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



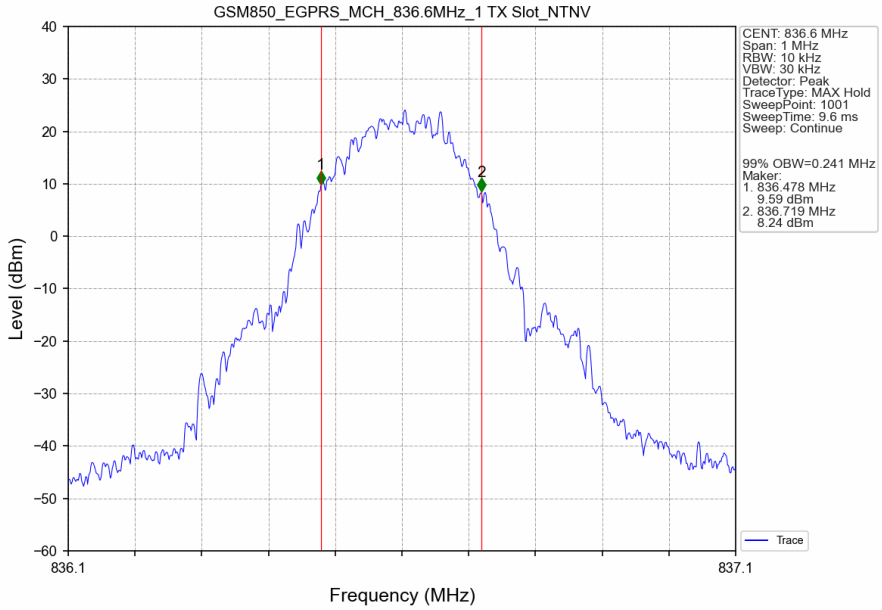
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



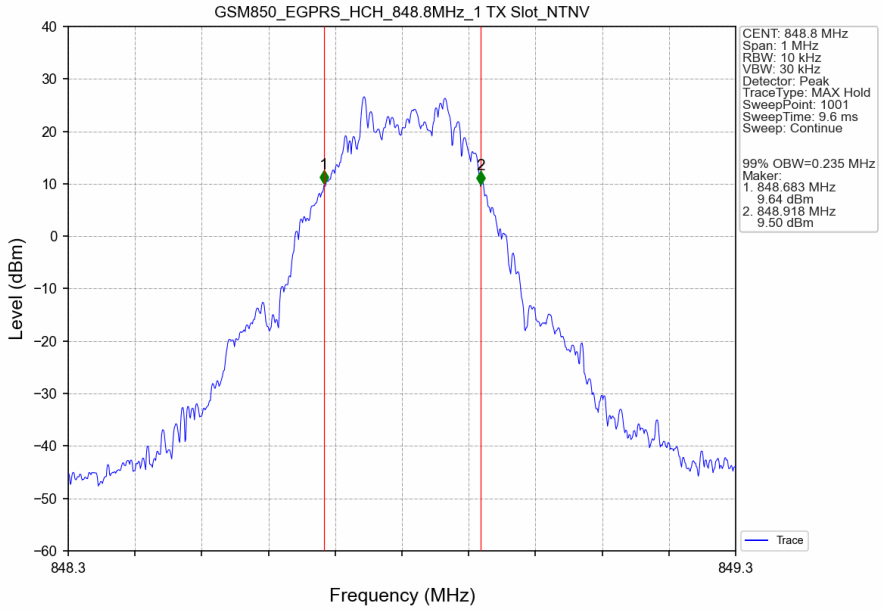
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV

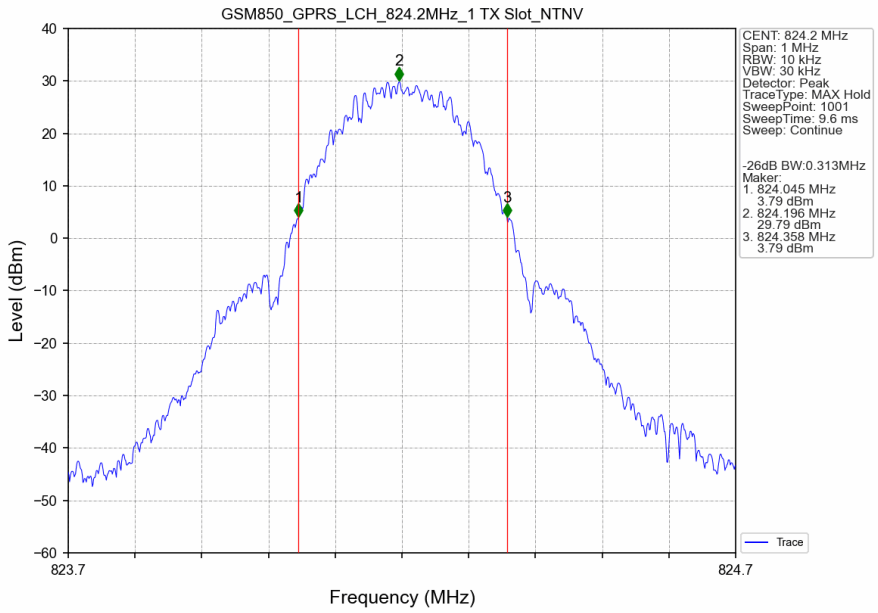


GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV

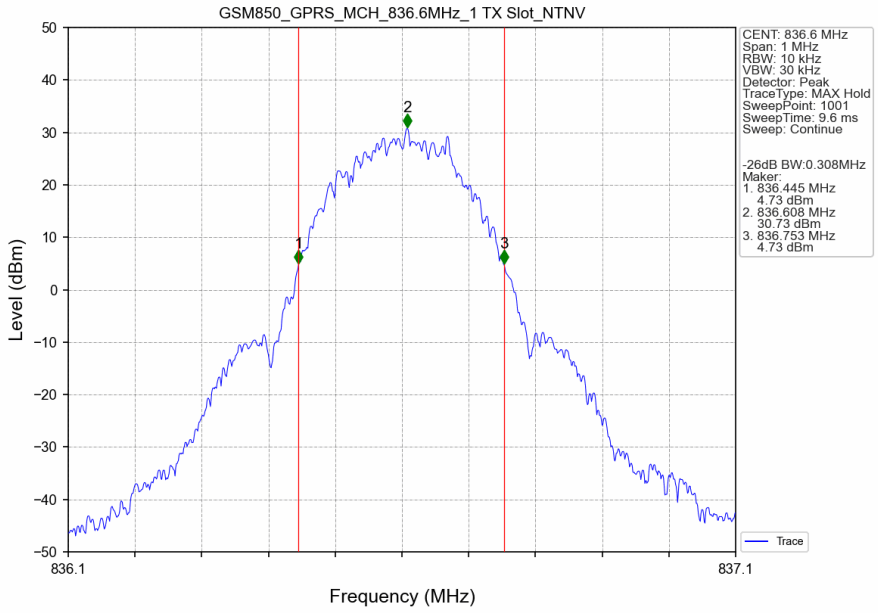


3.2.2 GSM850_XDB

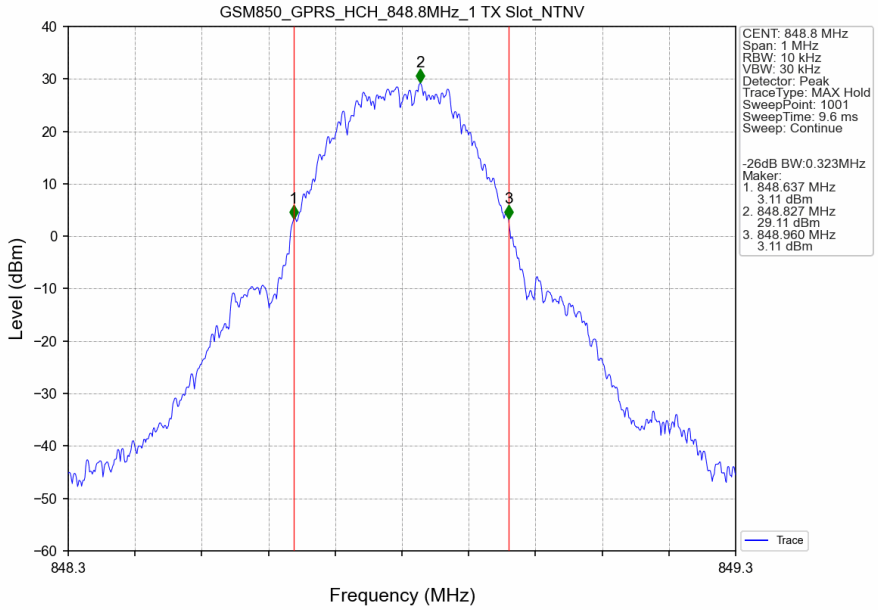
GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



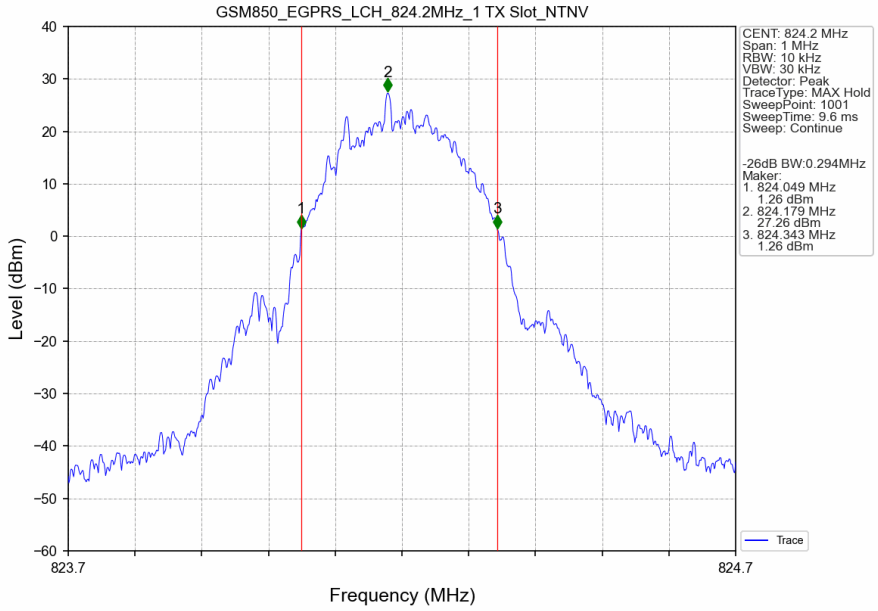
GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



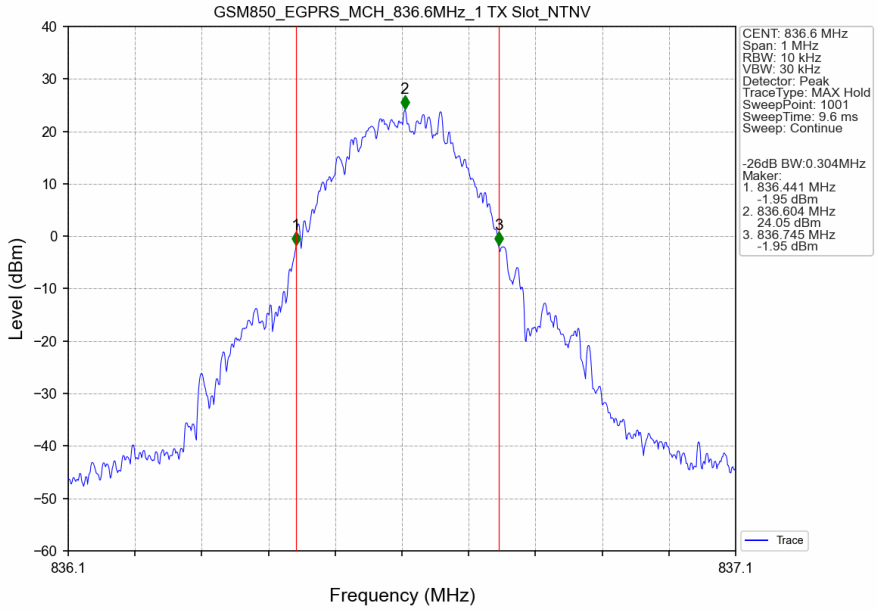
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



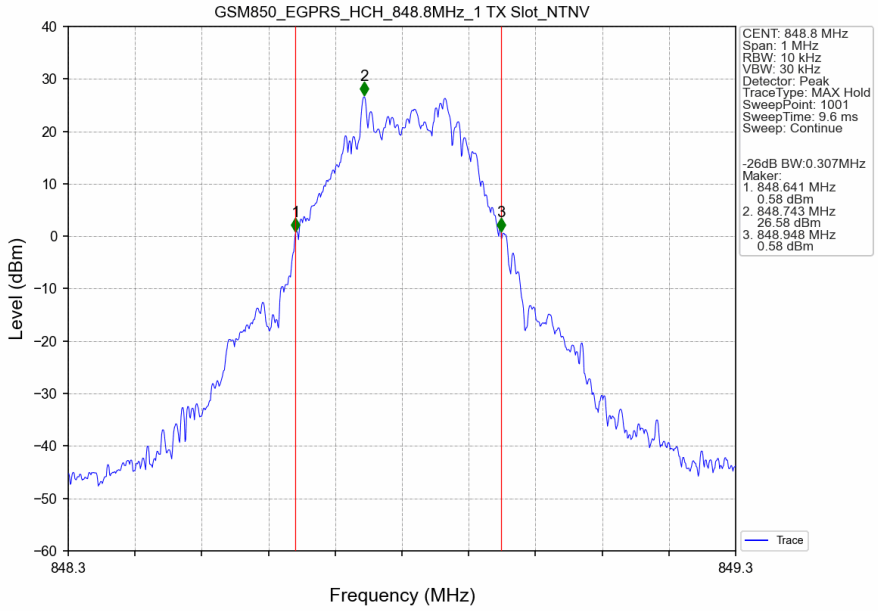
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV



4. Peak-Average Ratio

4.1 Test Result

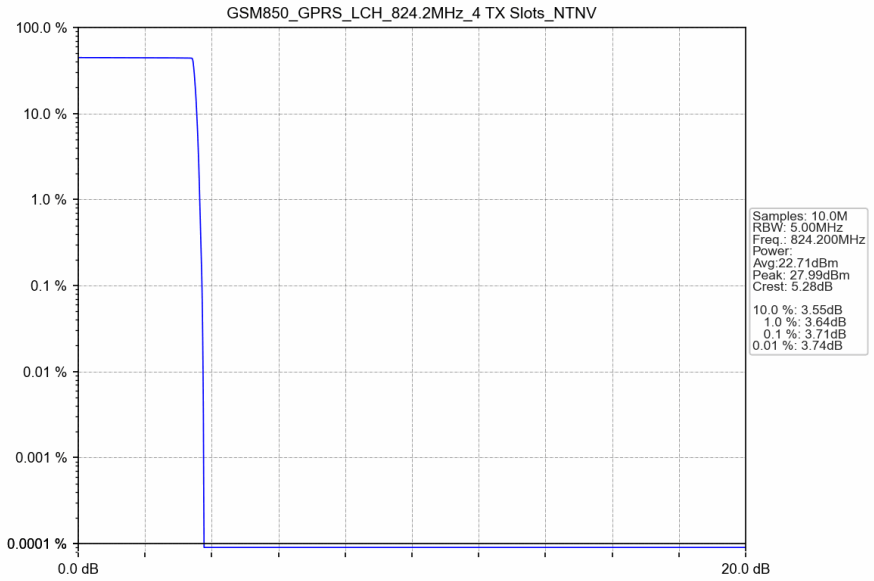
4.1.1 GSM850

Band: GSM850						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	824.2	3.71	<=13	Pass
			836.6	3.65	<=13	Pass
			848.8	3.75	<=13	Pass
	EGPRS	4 TX Slots	824.2	9.83	<=13	Pass
			836.6	9.41	<=13	Pass
			848.8	8.88	<=13	Pass

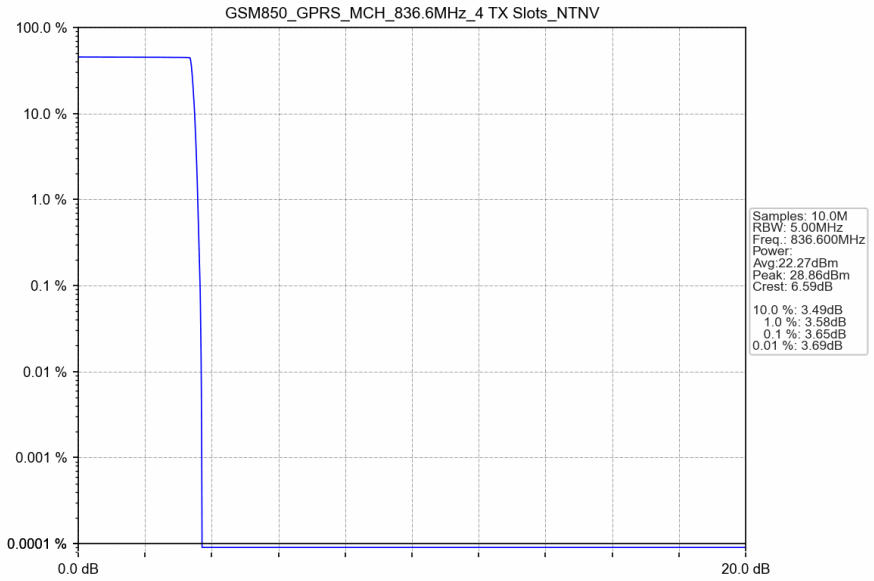
4.2 Test Graph

4.2.1 GSM850

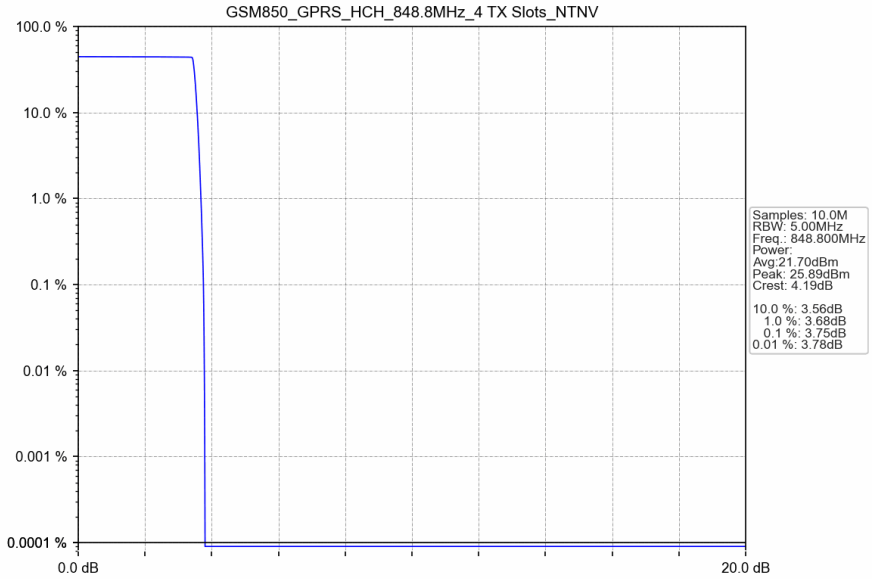
GSM850_GPRS_LCH_824.2MHz_4 TX Slots_NTNV



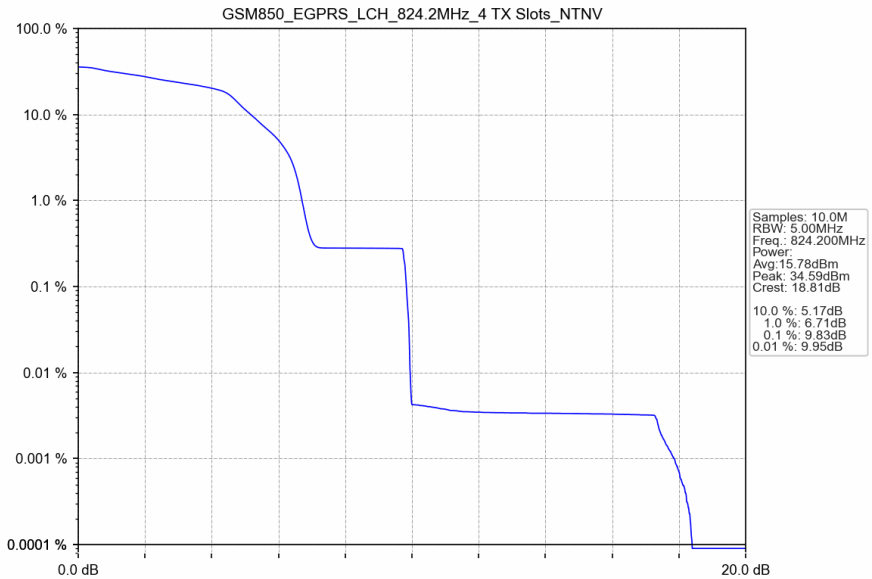
GSM850_GPRS_MCH_836.6MHz_4 TX Slots_NTNV



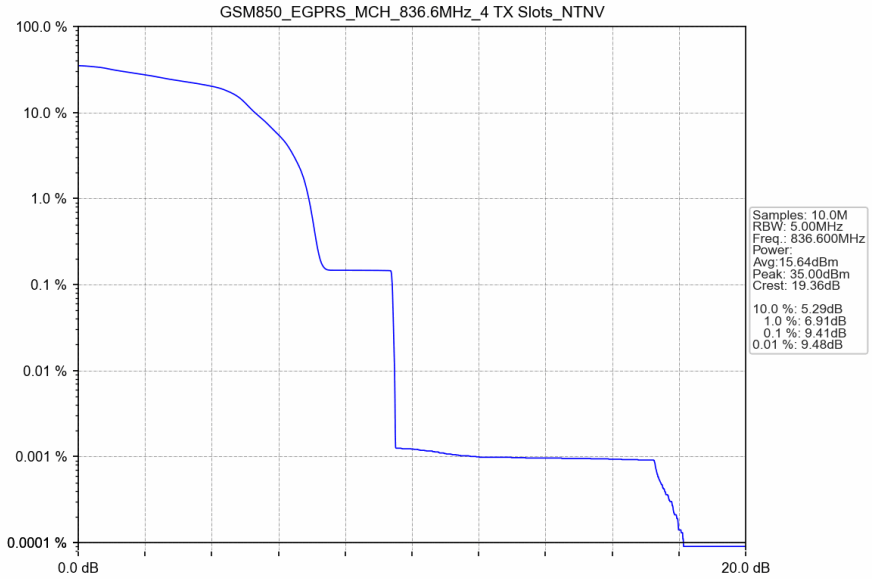
GSM850_GPRS_HCH_848.8MHz_4 TX Slots_NTNV



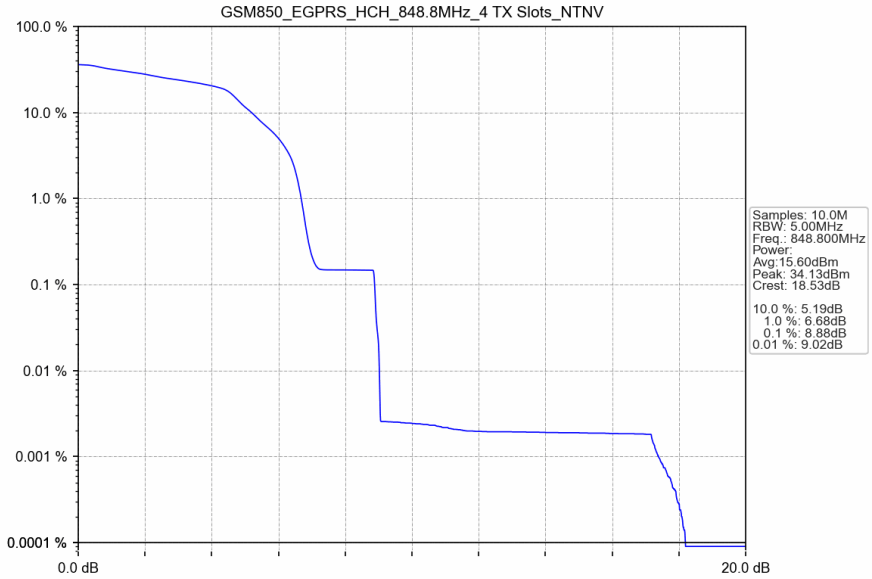
GSM850_EGPRS_LCH_824.2MHz_4 TX Slots_NTNV



GSM850_EGPRS_MCH_836.6MHz_4 TX Slots_NTNV



GSM850_EGPRS_HCH_848.8MHz_4 TX Slots_NTNV



5. Spurious Emission

5.1 Test Result

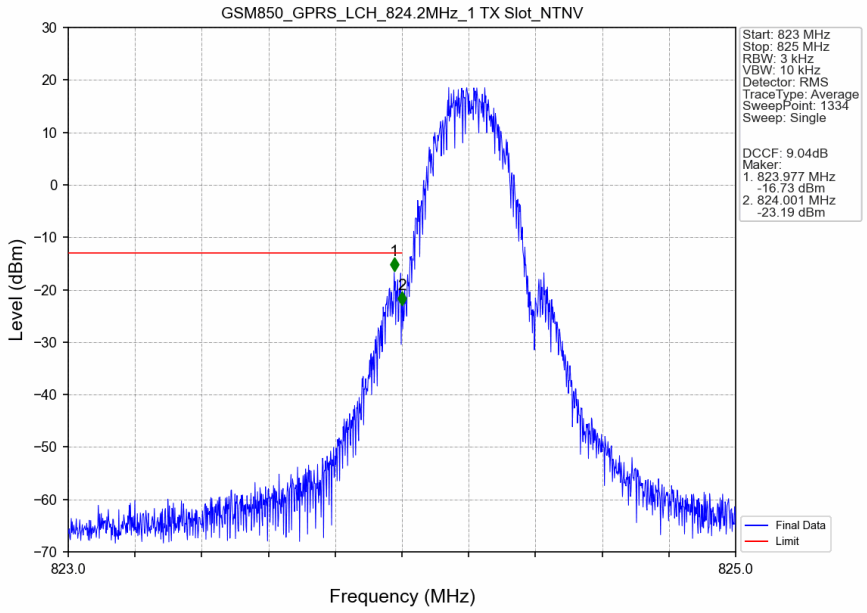
5.1.1 GSM850

Band: GSM850						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	824.2	Refer To Test Graph		Pass
			836.6	Refer To Test Graph		Pass
			848.8	Refer To Test Graph		Pass
	EGPRS	1 TX Slot	824.2	Refer To Test Graph		Pass
			836.6	Refer To Test Graph		Pass
			848.8	Refer To Test Graph		Pass

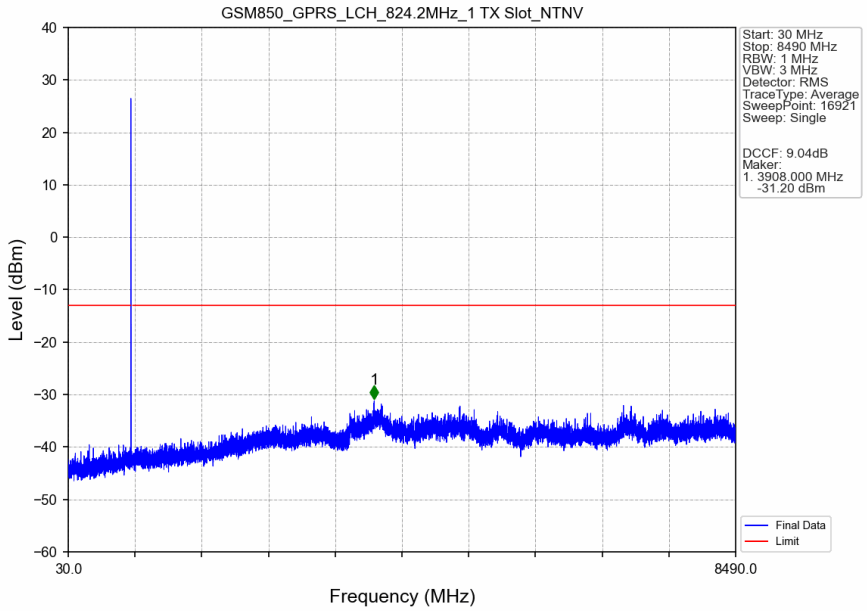
5.2 Test Graph

5.2.1 GSM850

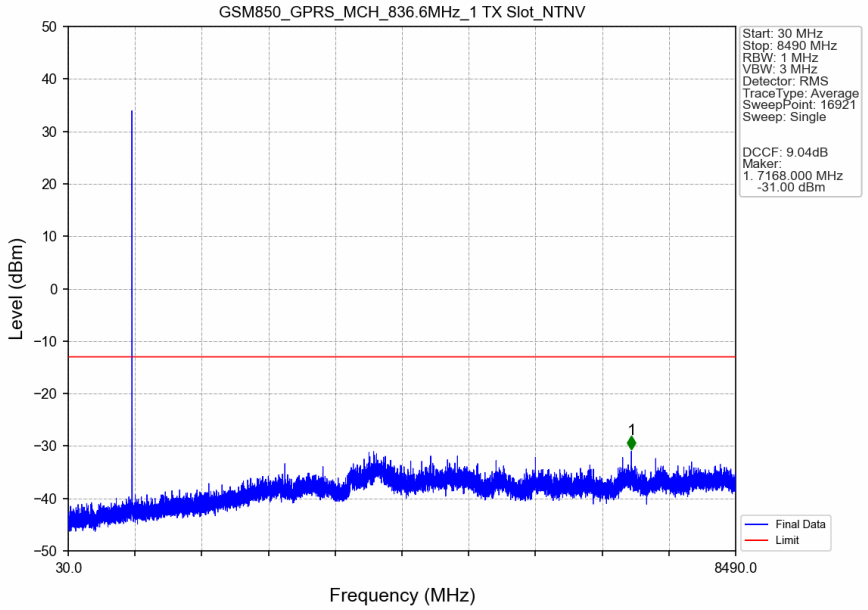
GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



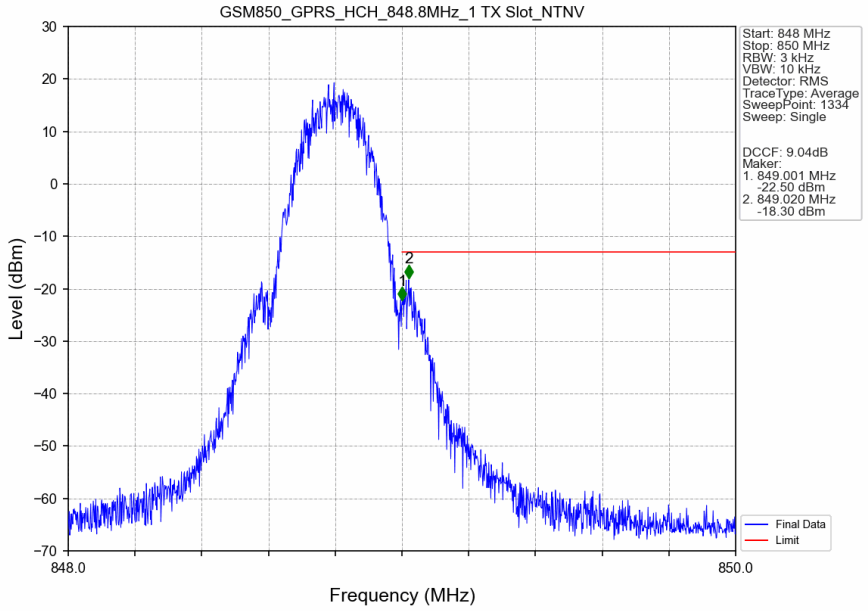
GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



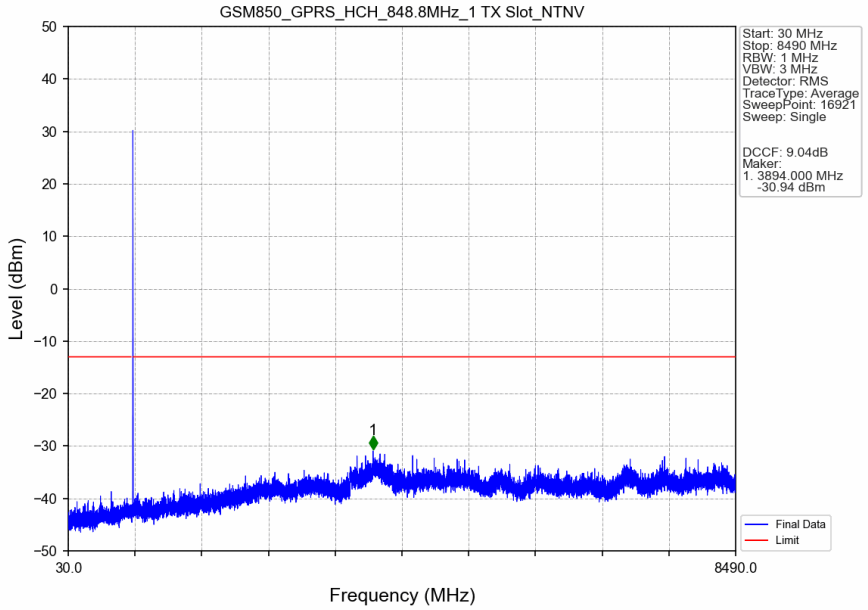
GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



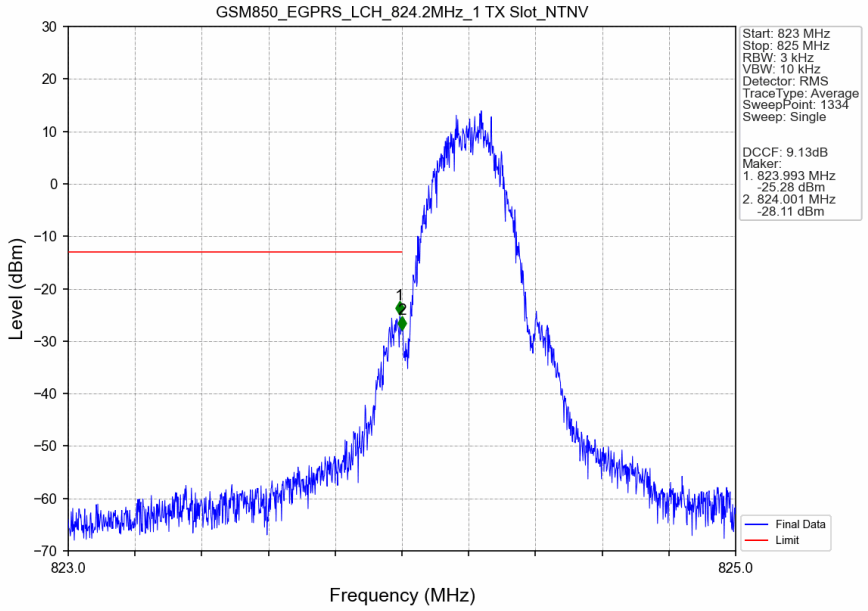
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



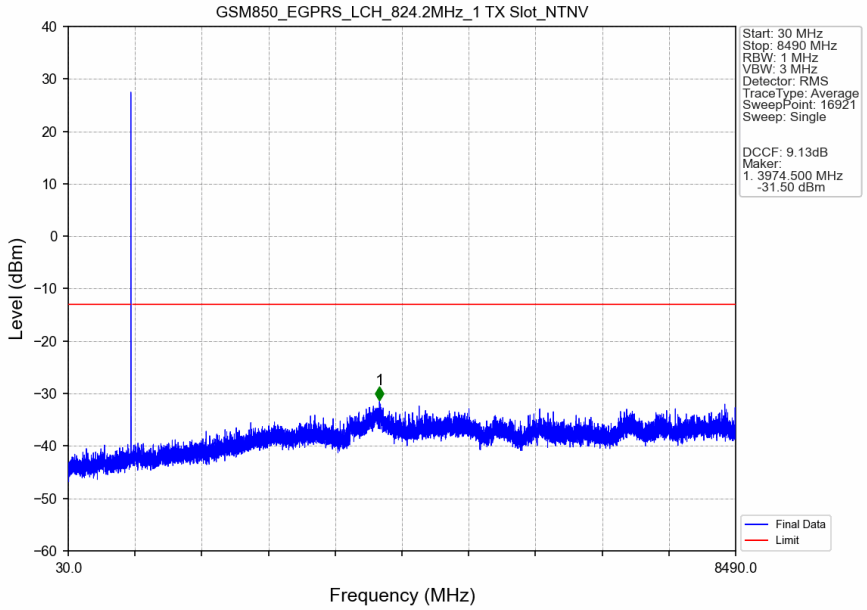
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



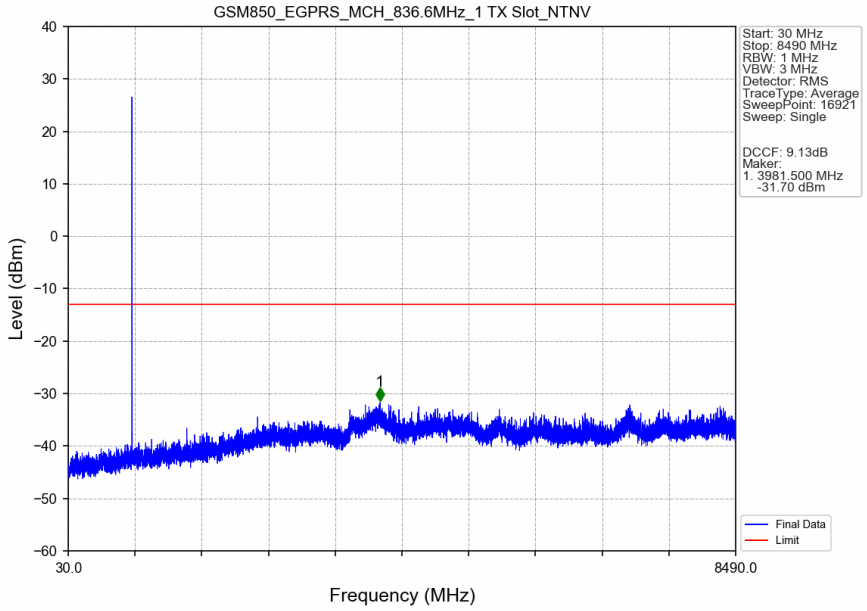
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



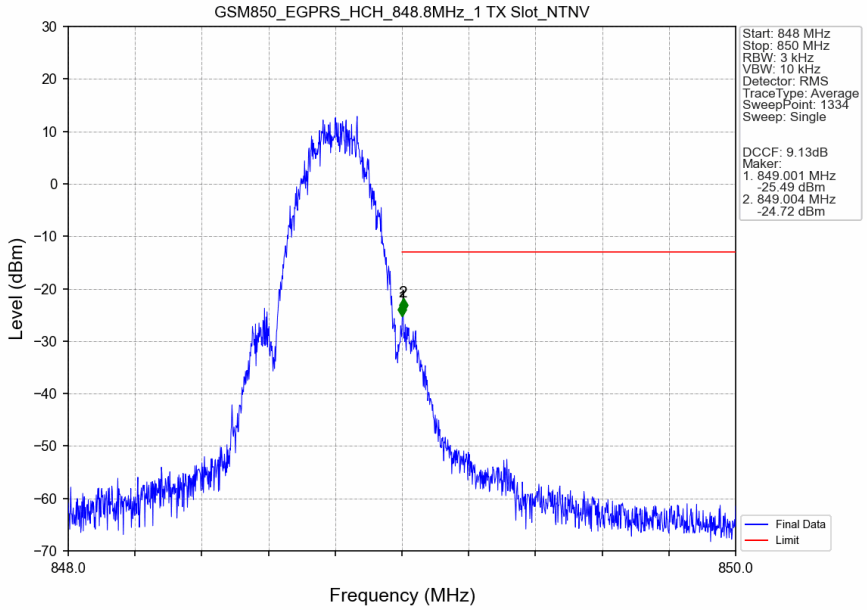
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



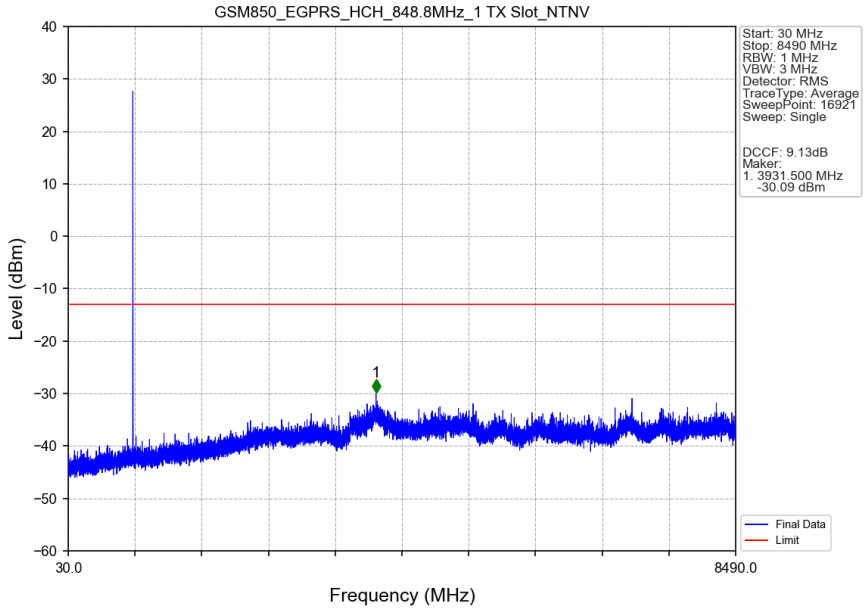
GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV



GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV



- End of the Appendix -