

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	32.78	-1.04	29.59	<=38.45	Pass
		2 TX Slots	824.2	31.31	-1.04	28.12	<=38.45	Pass
		3 TX Slots	824.2	29.75	-1.04	26.56	<=38.45	Pass
		4 TX Slots	824.2	29.01	-1.04	25.82	<=38.45	Pass
		1 TX Slot	836.6	32.60	-1.04	29.41	<=38.45	Pass
		2 TX Slots	836.6	31.29	-1.04	28.10	<=38.45	Pass
		3 TX Slots	836.6	29.74	-1.04	26.55	<=38.45	Pass
		4 TX Slots	836.6	29.01	-1.04	25.82	<=38.45	Pass
		1 TX Slot	848.8	32.60	-1.04	29.41	<=38.45	Pass
		2 TX Slots	848.8	31.20	-1.04	28.01	<=38.45	Pass
		3 TX Slots	848.8	29.68	-1.04	26.49	<=38.45	Pass
		4 TX Slots	848.8	28.94	-1.04	25.75	<=38.45	Pass
	EGPRS	1 TX Slot	824.2	27.80	-1.04	24.61	<=38.45	Pass
		2 TX Slots	824.2	27.56	-1.04	24.37	<=38.45	Pass
		3 TX Slots	824.2	25.34	-1.04	22.15	<=38.45	Pass
		4 TX Slots	824.2	24.34	-1.04	21.15	<=38.45	Pass
		1 TX Slot	836.6	29.44	-1.04	26.25	<=38.45	Pass
		2 TX Slots	836.6	27.31	-1.04	24.12	<=38.45	Pass
		3 TX Slots	836.6	25.20	-1.04	22.01	<=38.45	Pass
		4 TX Slots	836.6	24.17	-1.04	20.98	<=38.45	Pass
		1 TX Slot	848.8	27.44	-1.04	24.25	<=38.45	Pass
		2 TX Slots	848.8	27.23	-1.04	24.04	<=38.45	Pass
		3 TX Slots	848.8	25.16	-1.04	21.97	<=38.45	Pass
		4 TX Slots	848.8	24.13	-1.04	20.94	<=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	5.133	0.0062	-2.5 to 2.5	Pass
			NV	11.235	0.0136	-2.5 to 2.5	Pass
			HV	11.074	0.0134	-2.5 to 2.5	Pass
		-30	NV	6.393	0.0078	-2.5 to 2.5	Pass
		-20	NV	5.715	0.0069	-2.5 to 2.5	Pass
		-10	NV	1.291	0.0016	-2.5 to 2.5	Pass
		0	NV	3.196	0.0039	-2.5 to 2.5	Pass
		10	NV	2.680	0.0033	-2.5 to 2.5	Pass
		30	NV	9.395	0.0114	-2.5 to 2.5	Pass
		40	NV	6.005	0.0073	-2.5 to 2.5	Pass
		50	NV	8.201	0.0100	-2.5 to 2.5	Pass
	836.6	20	LV	4.617	0.0055	-2.5 to 2.5	Pass
			NV	7.975	0.0095	-2.5 to 2.5	Pass
			HV	7.523	0.0090	-2.5 to 2.5	Pass
		-30	NV	8.136	0.0097	-2.5 to 2.5	Pass
		-20	NV	-1.679	-0.0020	-2.5 to 2.5	Pass
		-10	NV	8.330	0.0100	-2.5 to 2.5	Pass
		0	NV	6.651	0.0080	-2.5 to 2.5	Pass
		10	NV	3.842	0.0046	-2.5 to 2.5	Pass
		30	NV	2.809	0.0034	-2.5 to 2.5	Pass
		40	NV	1.517	0.0018	-2.5 to 2.5	Pass
		50	NV	4.811	0.0058	-2.5 to 2.5	Pass
	848.8	20	LV	-0.226	-0.0003	-2.5 to 2.5	Pass
			NV	-0.872	-0.0010	-2.5 to 2.5	Pass
			HV	0.710	0.0008	-2.5 to 2.5	Pass
		-30	NV	4.100	0.0048	-2.5 to 2.5	Pass
		-20	NV	6.780	0.0080	-2.5 to 2.5	Pass
		-10	NV	0.226	0.0003	-2.5 to 2.5	Pass
		0	NV	5.811	0.0068	-2.5 to 2.5	Pass
		10	NV	4.940	0.0058	-2.5 to 2.5	Pass
		30	NV	5.553	0.0065	-2.5 to 2.5	Pass
		40	NV	4.811	0.0057	-2.5 to 2.5	Pass
EGPRS	824.2	20	LV	11.300	0.0137	-2.5 to 2.5	Pass
			NV	-4.585	-0.0056	-2.5 to 2.5	Pass
			HV	12.075	0.0147	-2.5 to 2.5	Pass
		-30	NV	12.301	0.0149	-2.5 to 2.5	Pass
		-20	NV	13.237	0.0161	-2.5 to 2.5	Pass
		-10	NV	11.784	0.0143	-2.5 to 2.5	Pass
		0	NV	14.496	0.0176	-2.5 to 2.5	Pass
		10	NV	13.851	0.0168	-2.5 to 2.5	Pass
		30	NV	11.817	0.0143	-2.5 to 2.5	Pass
		40	NV	8.782	0.0107	-2.5 to 2.5	Pass
		50	NV	8.168	0.0099	-2.5 to 2.5	Pass
	836.6	20	LV	7.200	0.0086	-2.5 to 2.5	Pass
			NV	12.527	0.0150	-2.5 to 2.5	Pass

			HV	8.588	0.0103	-2.5 to 2.5	Pass
		-30	NV	13.205	0.0158	-2.5 to 2.5	Pass
		-20	NV	8.233	0.0098	-2.5 to 2.5	Pass
		-10	NV	12.656	0.0151	-2.5 to 2.5	Pass
		0	NV	6.457	0.0077	-2.5 to 2.5	Pass
		10	NV	7.361	0.0088	-2.5 to 2.5	Pass
		30	NV	19.662	0.0235	-2.5 to 2.5	Pass
		40	NV	5.779	0.0069	-2.5 to 2.5	Pass
		50	NV	13.043	0.0156	-2.5 to 2.5	Pass
	848.8	20	LV	9.201	0.0108	-2.5 to 2.5	Pass
			NV	4.585	0.0054	-2.5 to 2.5	Pass
			HV	9.815	0.0116	-2.5 to 2.5	Pass
		-30	NV	8.265	0.0097	-2.5 to 2.5	Pass
		-20	NV	8.007	0.0094	-2.5 to 2.5	Pass
		-10	NV	5.941	0.0070	-2.5 to 2.5	Pass
		0	NV	6.231	0.0073	-2.5 to 2.5	Pass
		10	NV	7.329	0.0086	-2.5 to 2.5	Pass
		30	NV	8.394	0.0099	-2.5 to 2.5	Pass
		40	NV	1.033	0.0012	-2.5 to 2.5	Pass
		50	NV	8.136	0.0096	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 GSM850_OBW

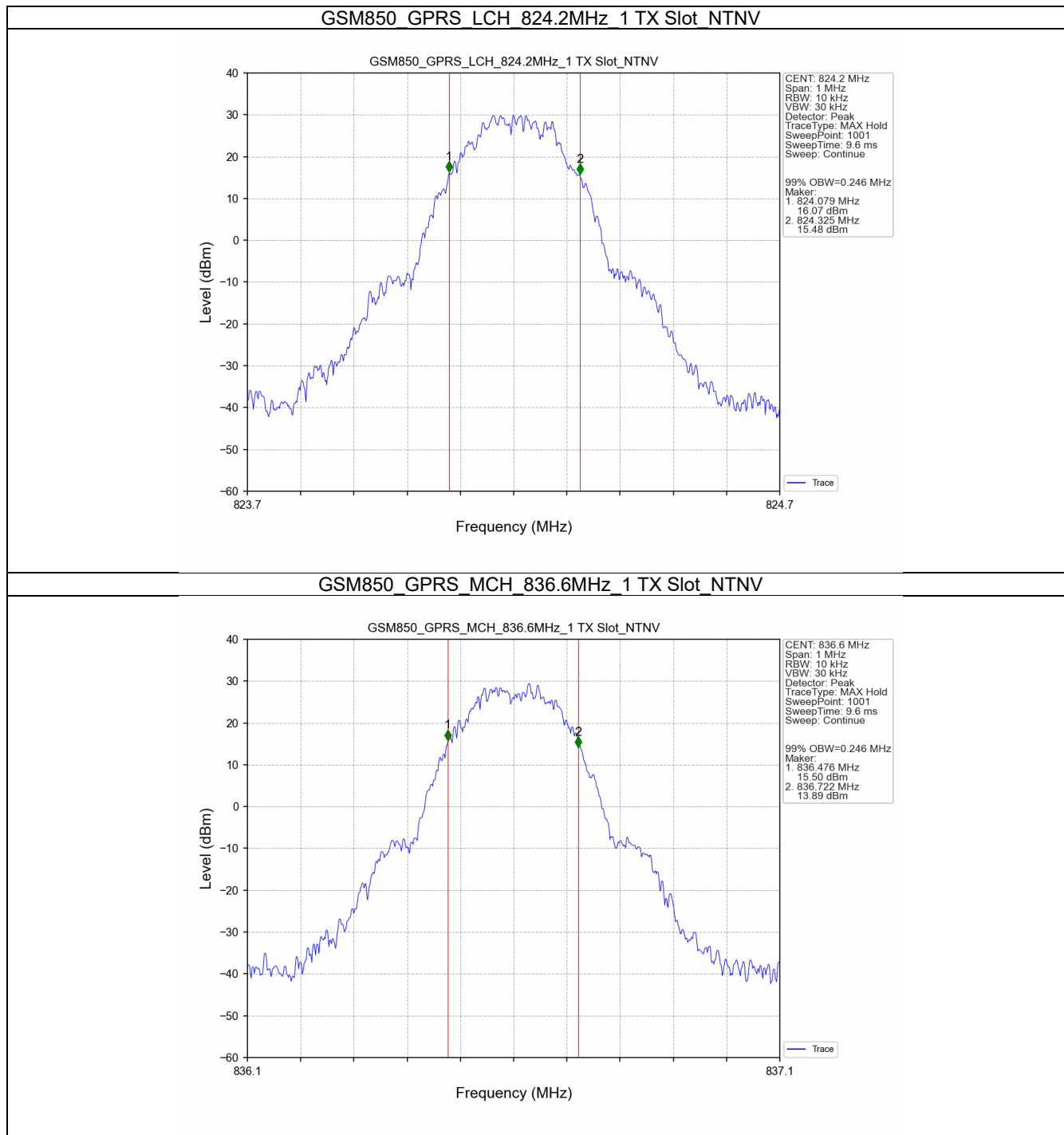
Band: GSM850						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	824.2	0.246	/	Pass
			836.6	0.246	/	Pass
			848.8	0.250	/	Pass
	EGPRS	1 TX Slot	824.2	0.240	/	Pass
			836.6	0.234	/	Pass
			848.8	0.247	/	Pass

3.1.2 GSM850_XDB

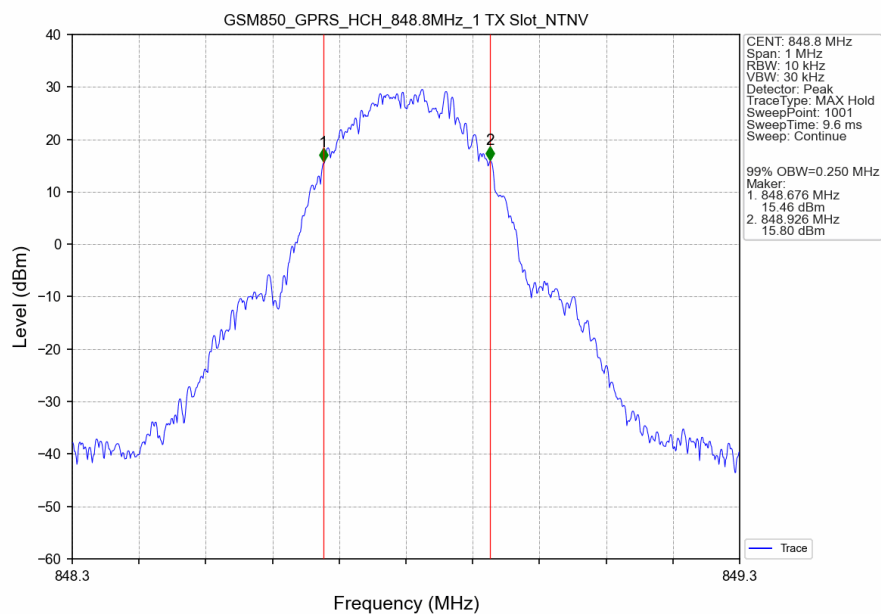
Band: GSM850						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	824.2	0.321	/	Pass
			836.6	0.322	/	Pass
			848.8	0.319	/	Pass
	EGPRS	1 TX Slot	824.2	0.313	/	Pass
			836.6	0.300	/	Pass
			848.8	0.311	/	Pass

3.2 Test Graph

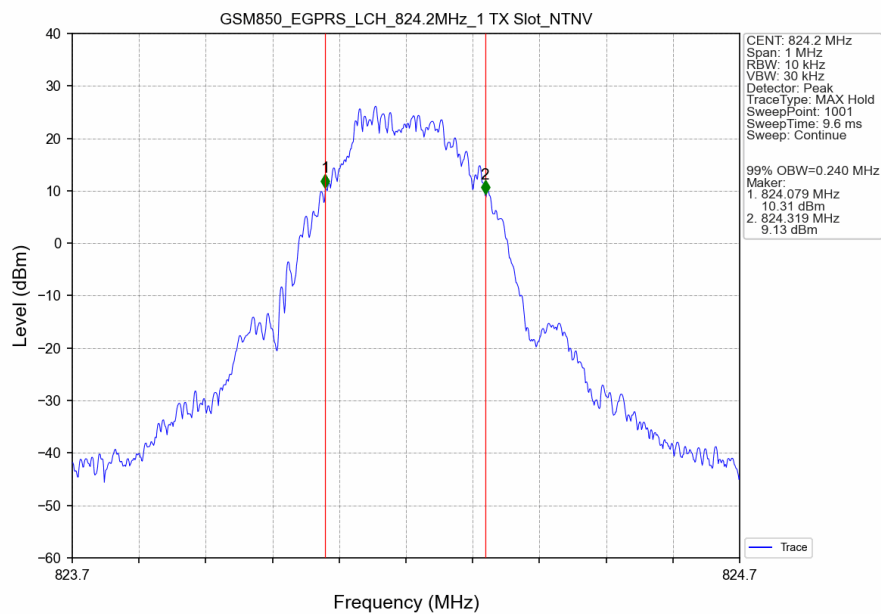
3.2.1 GSM850_OBW



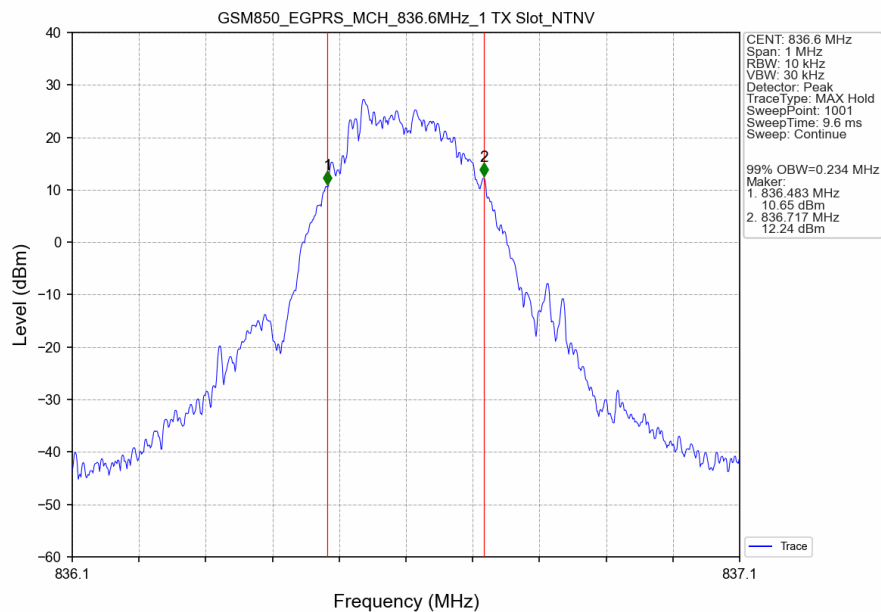
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



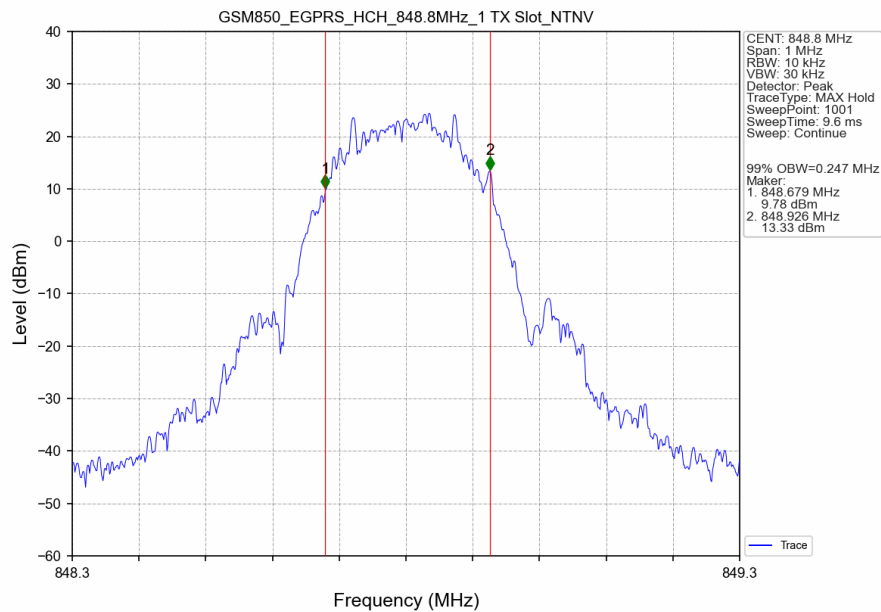
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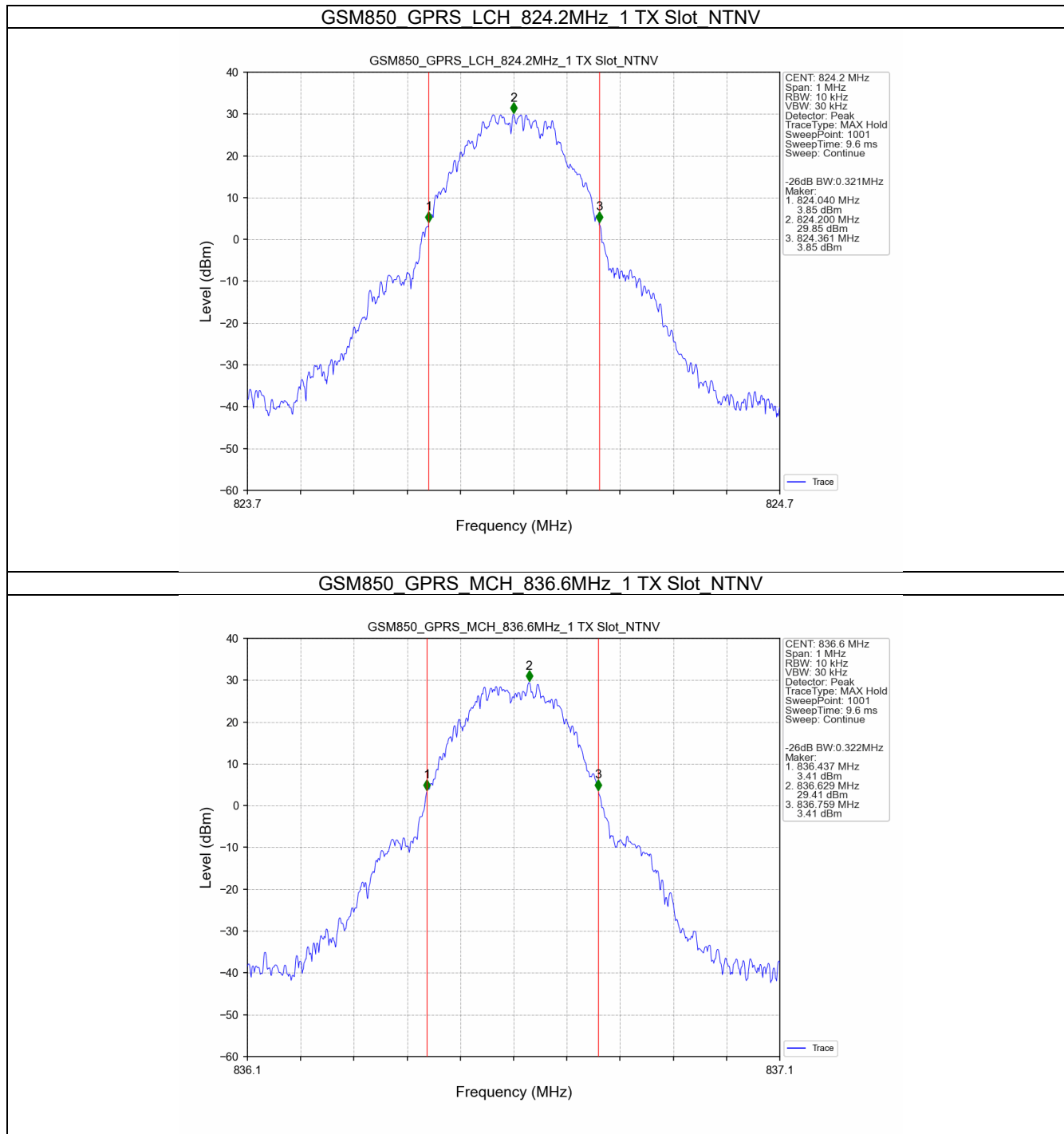
GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



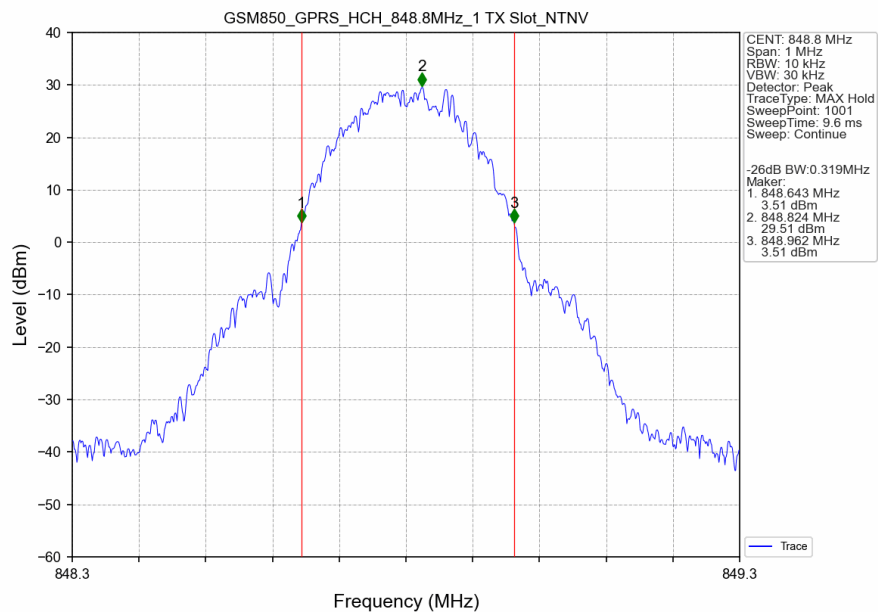
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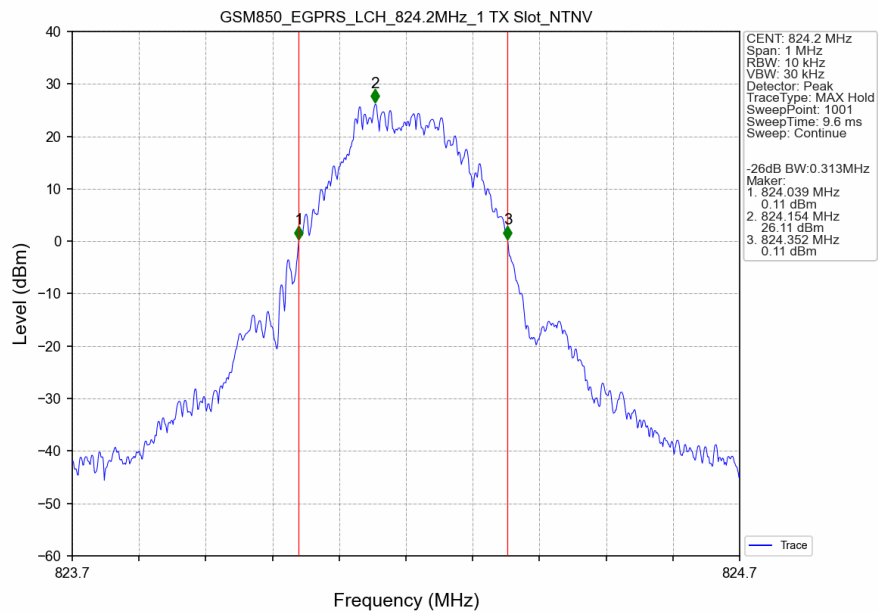
3.2.2 GSM850_XDB



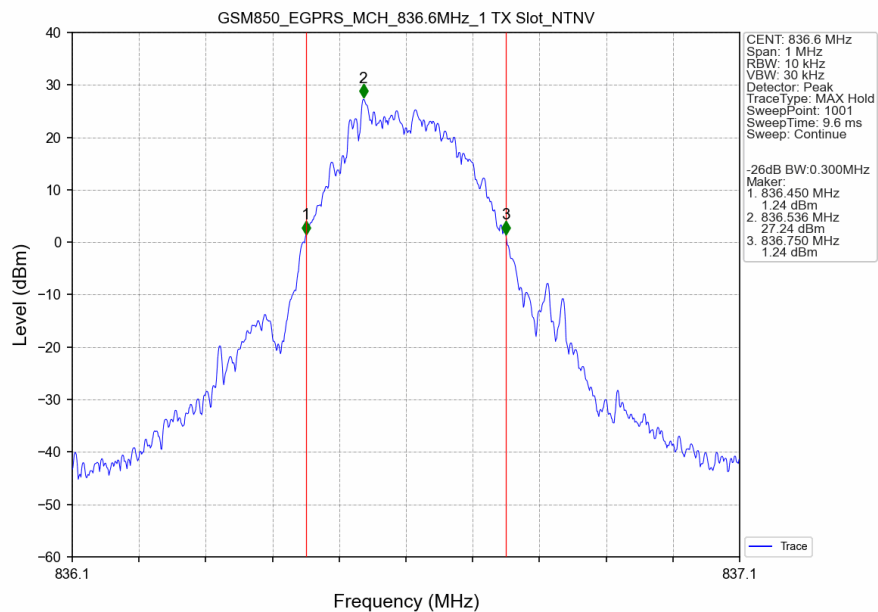
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



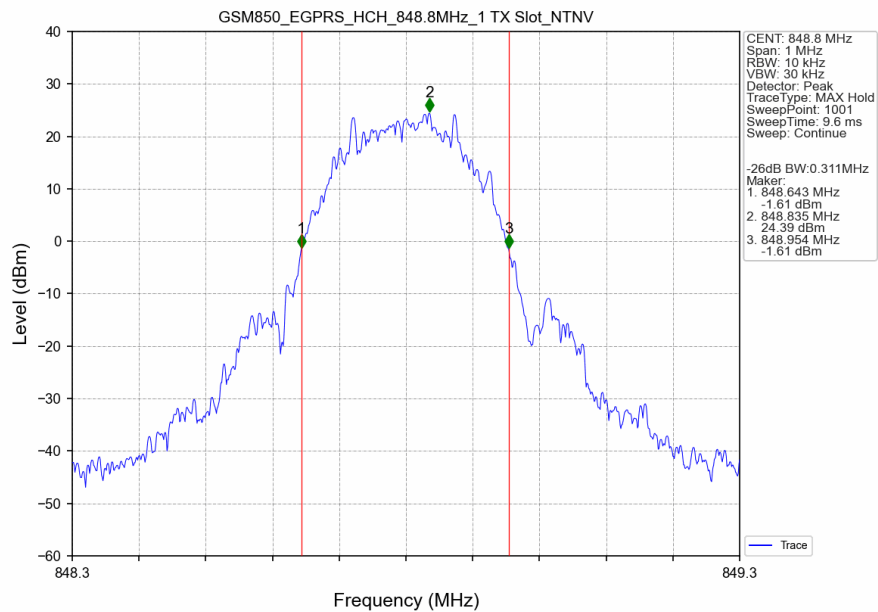
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV





4. Peak-Average Ratio

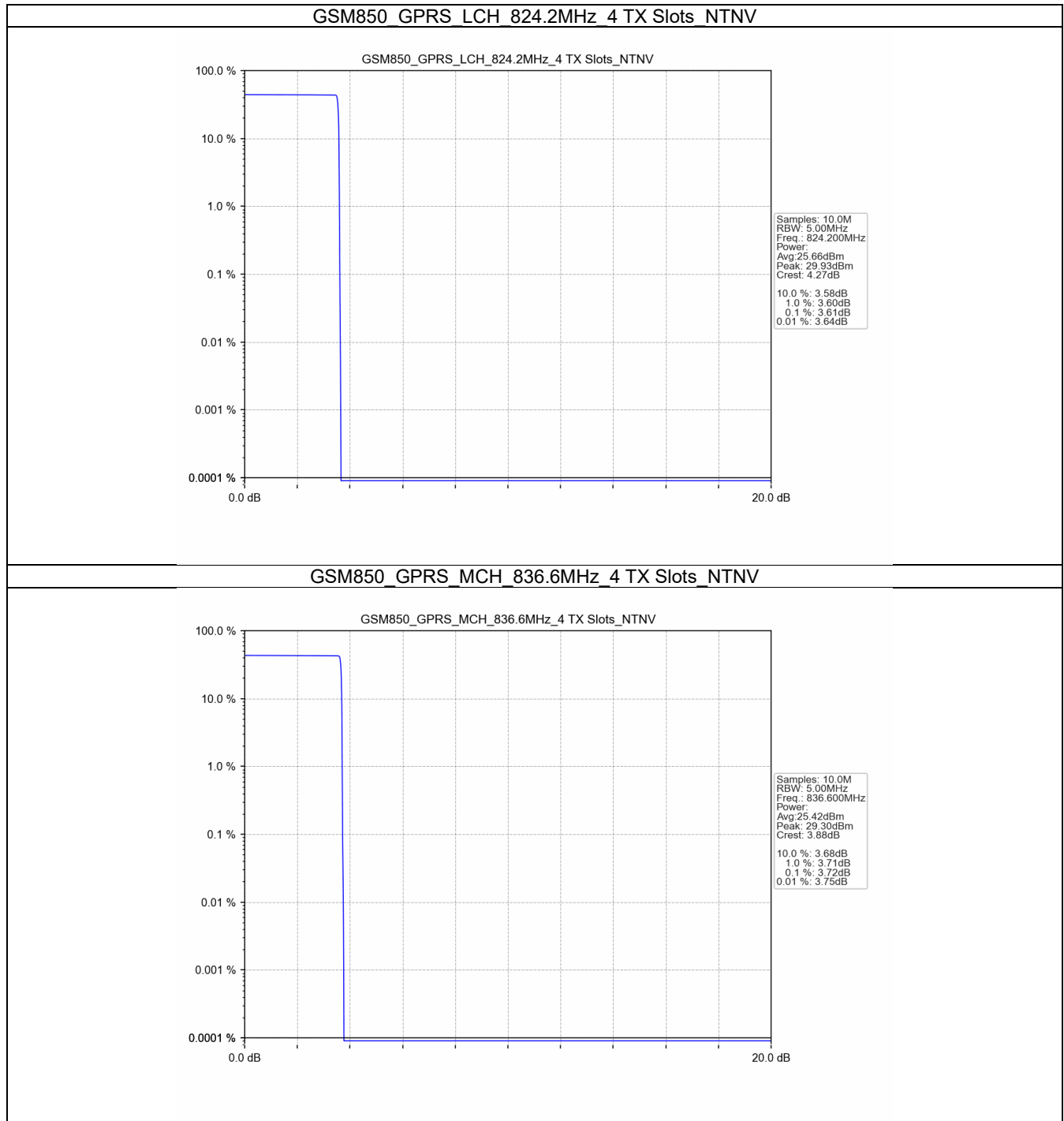
4.1 Test Result

4.1.1 GSM850

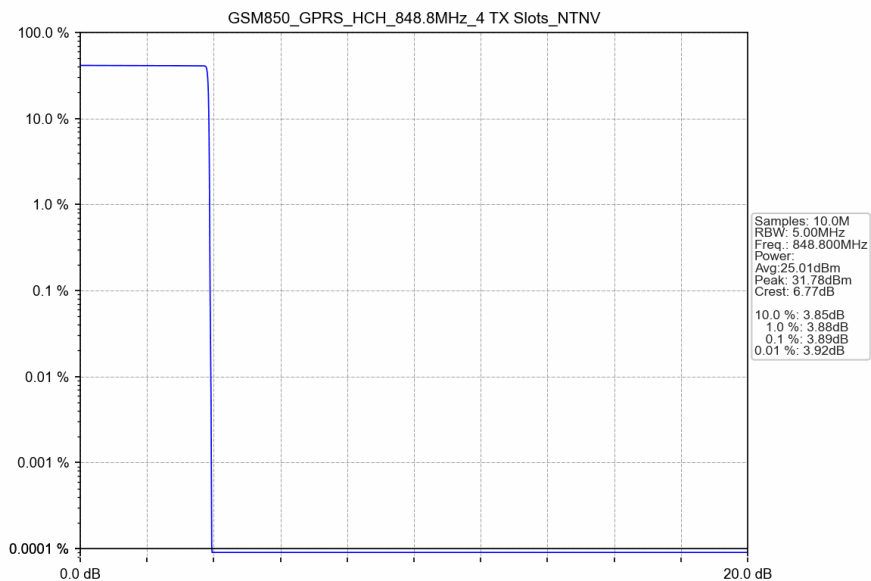
Band: GSM850						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	824.2	3.61	<=13	Pass
			836.6	3.72	<=13	Pass
			848.8	3.89	<=13	Pass
	EGPRS	4 TX Slots	824.2	8.67	<=13	Pass
			836.6	8.92	<=13	Pass
			848.8	8.90	<=13	Pass

4.2 Test Graph

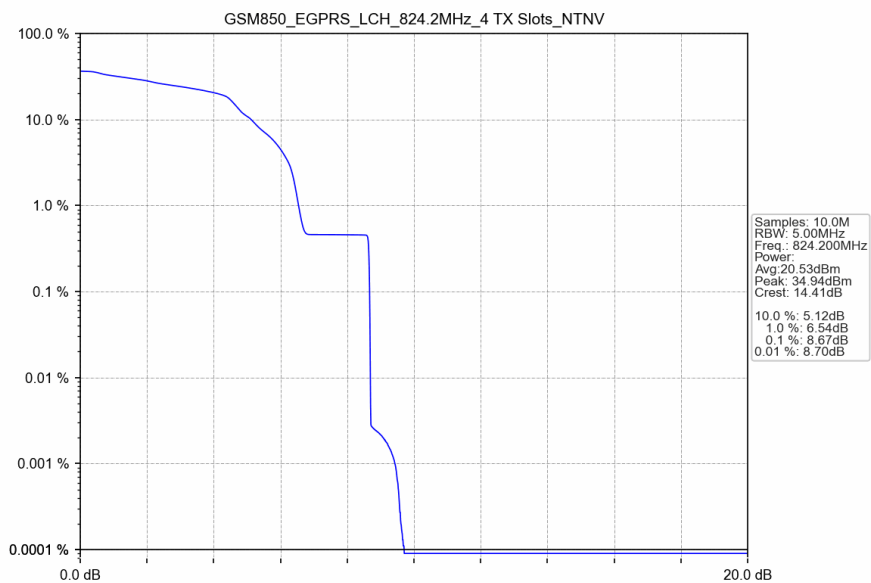
4.2.1 GSM850



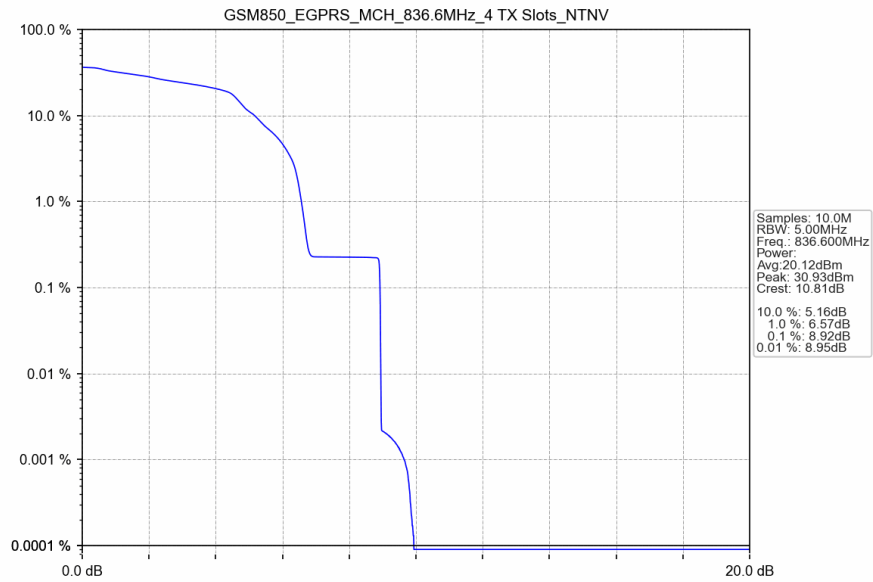
GSM850_GPRS_HCH_848.8MHz_4 TX Slots_NTNV



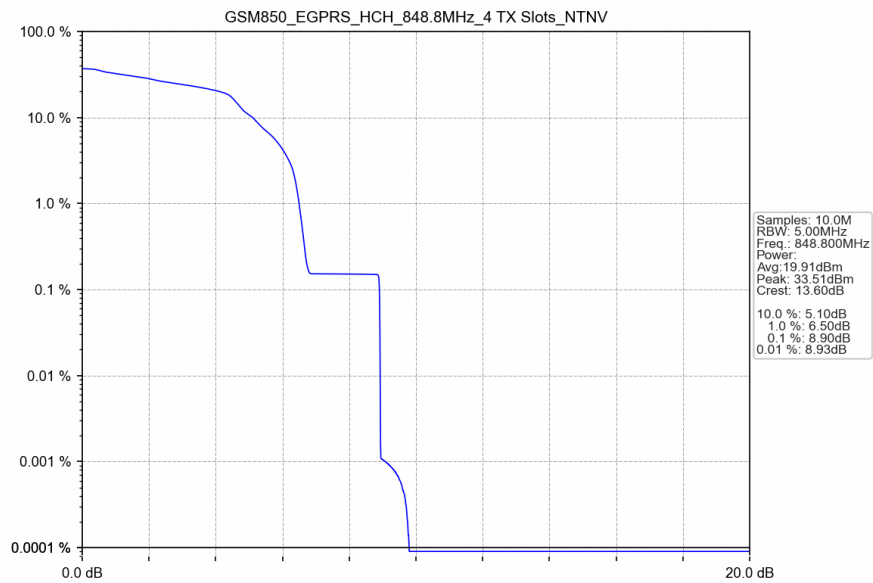
GSM850_EGPRS_LCH_824.2MHz_4 TX Slots_NTNV



GSM850_EGPRS_MCH_836.6MHz_4 TX Slots_NTNV



GSM850_EGPRS_HCH_848.8MHz_4 TX Slots_NTNV





5. Spurious Emission

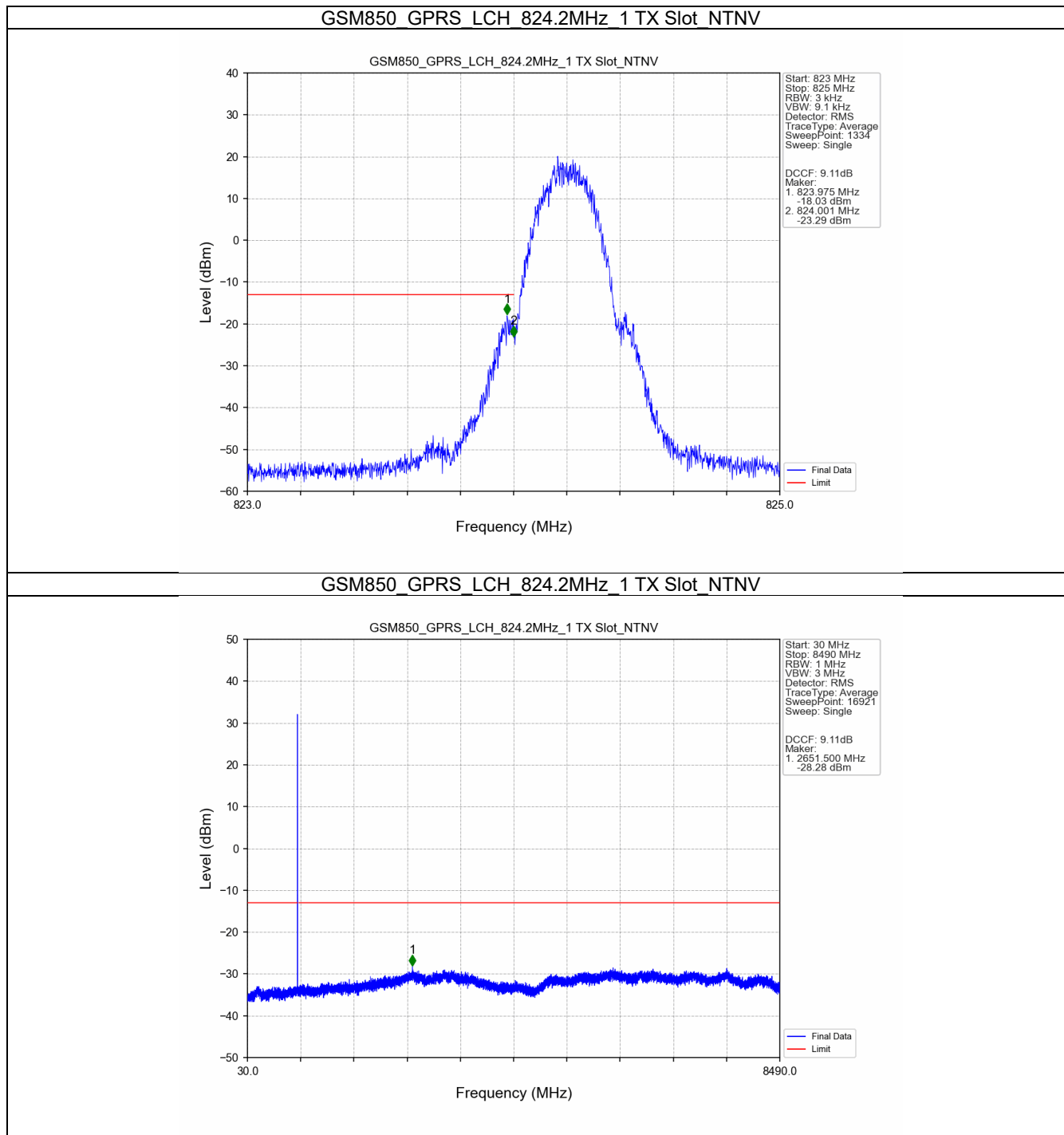
5.1 Test Result

5.1.1 GSM850

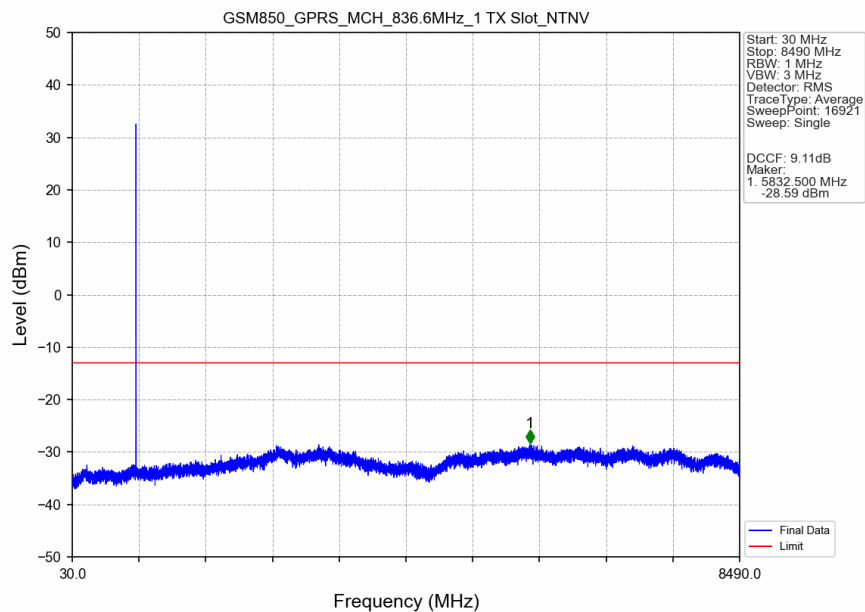
Band: GSM850					
ENV	Mode		Frequency (MHz)	Spurious Emission	
	Network	Subset		Result	Limit
NTNV	GPRS	1 TX Slot	824.2	Refer To Test Graph	Pass
			836.6	Refer To Test Graph	Pass
			848.8	Refer To Test Graph	Pass
	EGPRS	1 TX Slot	824.2	Refer To Test Graph	Pass
			836.6	Refer To Test Graph	Pass
			848.8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

5.2 Test Graph

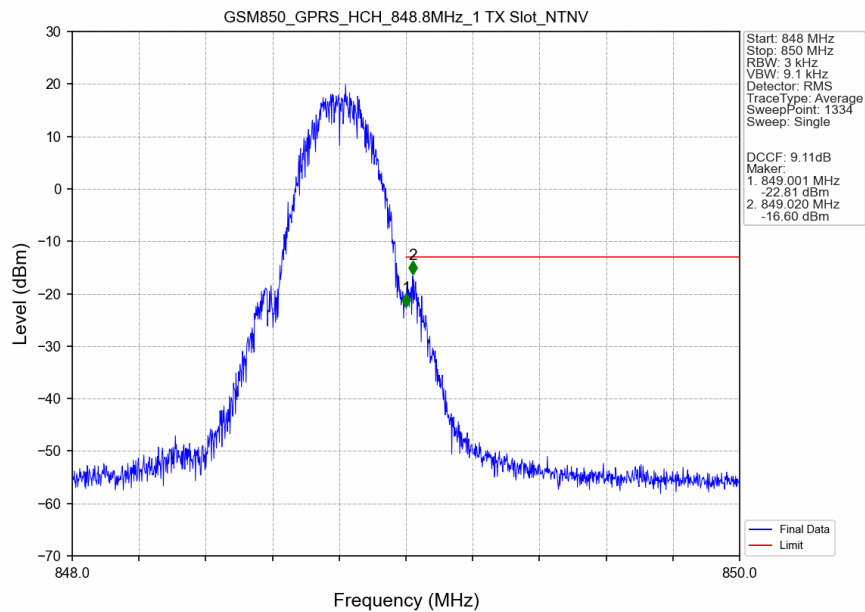
5.2.1 GSM850



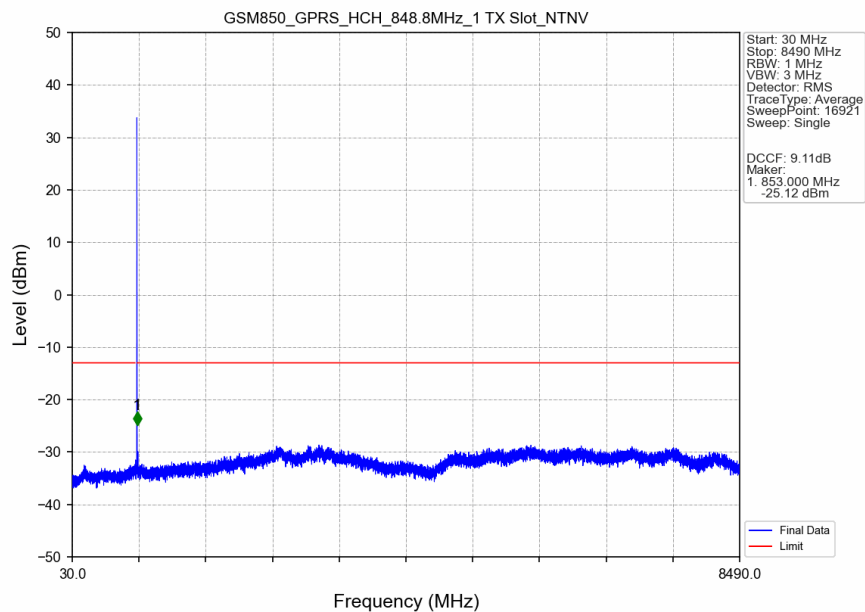
GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



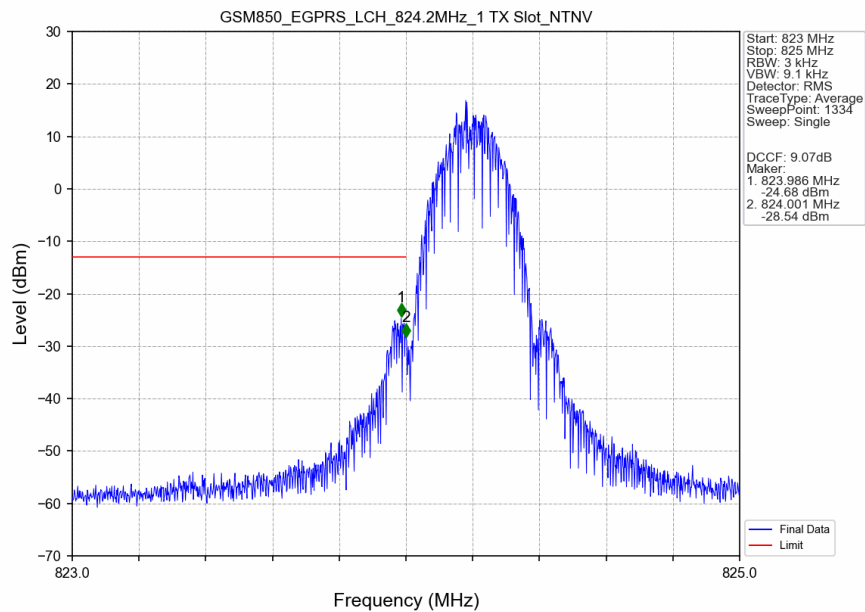
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



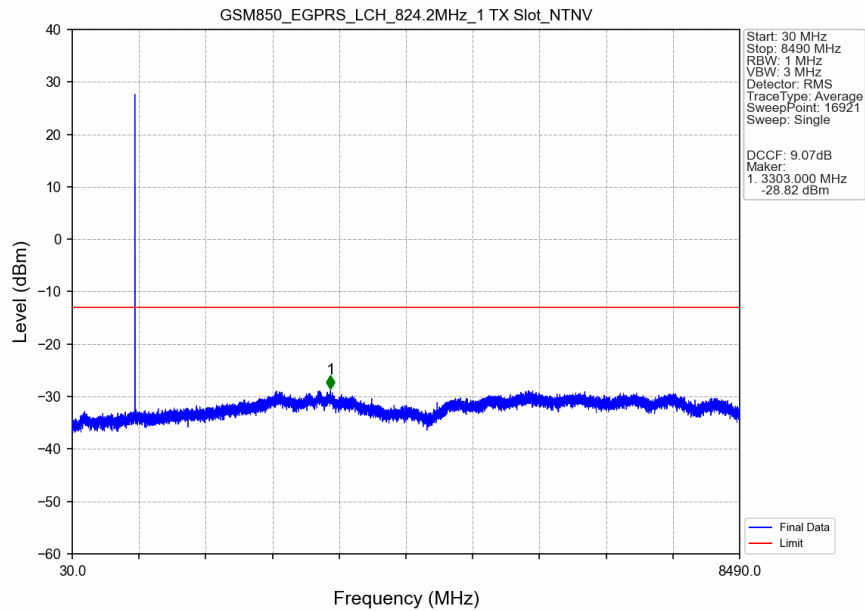
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



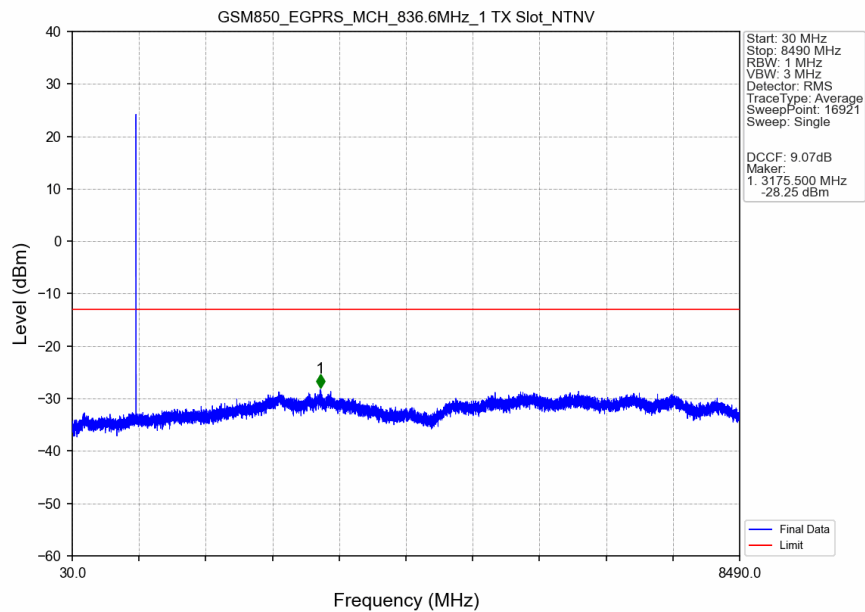
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



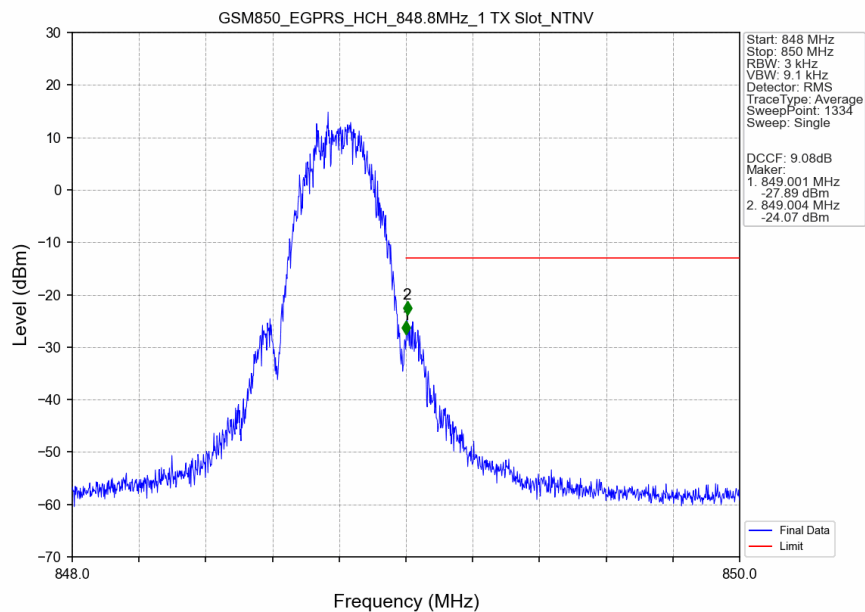
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



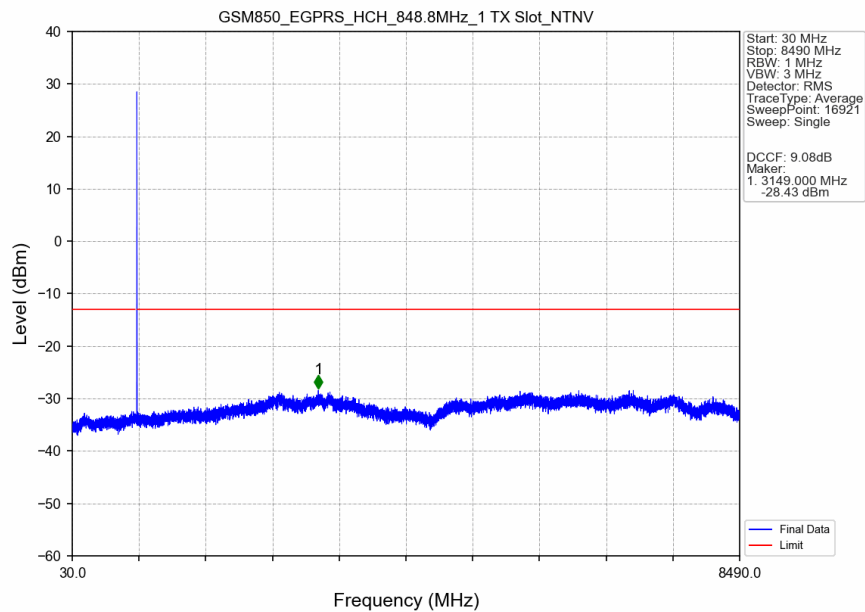
GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV



GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV



- End of the Appendix -