

1.1.1 GSM850_ERP

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	
GSM	824.2	20	LV	14.302	0.0174	-2.5 to 2.5	Pass
			NV	23.347	0.0283	-2.5 to 2.5	Pass
			HV	22.909	0.0278	-2.5 to 2.5	Pass
		-30	NV	21.179	0.0257	-2.5 to 2.5	Pass
		-20	NV	21.298	0.0258	-2.5 to 2.5	Pass
		-10	NV	23.757	0.0288	-2.5 to 2.5	Pass
		0	NV	16.426	0.0199	-2.5 to 2.5	Pass
		10	NV	17.581	0.0213	-2.5 to 2.5	Pass
		30	NV	15.294	0.0186	-2.5 to 2.5	Pass
		40	NV	17.663	0.0214	-2.5 to 2.5	Pass
		50	NV	16.483	0.0200	-2.5 to 2.5	Pass
	836.6	20	LV	16.519	0.0197	-2.5 to 2.5	Pass
			NV	20.264	0.0242	-2.5 to 2.5	Pass
			HV	18.058	0.0216	-2.5 to 2.5	Pass
		-30	NV	17.097	0.0204	-2.5 to 2.5	Pass
		-20	NV	19.486	0.0233	-2.5 to 2.5	Pass
		-10	NV	18.305	0.0219	-2.5 to 2.5	Pass
		0	NV	14.659	0.0175	-2.5 to 2.5	Pass
		10	NV	17.509	0.0209	-2.5 to 2.5	Pass
		30	NV	18.350	0.0219	-2.5 to 2.5	Pass
		40	NV	17.241	0.0206	-2.5 to 2.5	Pass
		50	NV	15.493	0.0185	-2.5 to 2.5	Pass
	848.8	20	LV	14.830	0.0175	-2.5 to 2.5	Pass
			NV	16.712	0.0197	-2.5 to 2.5	Pass
			HV	16.318	0.0192	-2.5 to 2.5	Pass
		-30	NV	16.307	0.0192	-2.5 to 2.5	Pass
		-20	NV	15.667	0.0185	-2.5 to 2.5	Pass
		-10	NV	16.692	0.0197	-2.5 to 2.5	Pass
		0	NV	16.141	0.0190	-2.5 to 2.5	Pass
		10	NV	14.440	0.0170	-2.5 to 2.5	Pass
		30	NV	17.503	0.0206	-2.5 to 2.5	Pass
		40	NV	16.653	0.0196	-2.5 to 2.5	Pass
		50	NV	18.641	0.0220	-2.5 to 2.5	Pass
GPRS	824.2	20	LV	24.844	0.0301	-2.5 to 2.5	Pass
			NV	28.566	0.0347	-2.5 to 2.5	Pass
			HV	28.826	0.0350	-2.5 to 2.5	Pass
		-30	NV	27.860	0.0338	-2.5 to 2.5	Pass
		-20	NV	29.869	0.0362	-2.5 to 2.5	Pass
		-10	NV	27.877	0.0338	-2.5 to 2.5	Pass
		0	NV	29.216	0.0354	-2.5 to 2.5	Pass
		10	NV	26.988	0.0327	-2.5 to 2.5	Pass
		30	NV	28.199	0.0342	-2.5 to 2.5	Pass
		40	NV	31.820	0.0386	-2.5 to 2.5	Pass
		50	NV	28.842	0.0350	-2.5 to 2.5	Pass
	836.6	20	LV	30.604	0.0366	-2.5 to 2.5	Pass
			NV	26.467	0.0316	-2.5 to 2.5	Pass
			HV	29.871	0.0357	-2.5 to 2.5	Pass

		-30	NV	30.357	0.0363	-2.5 to 2.5	Pass
		-20	NV	29.918	0.0358	-2.5 to 2.5	Pass
		-10	NV	30.705	0.0367	-2.5 to 2.5	Pass
		0	NV	27.361	0.0327	-2.5 to 2.5	Pass
		10	NV	28.994	0.0347	-2.5 to 2.5	Pass
		30	NV	29.939	0.0358	-2.5 to 2.5	Pass
		40	NV	31.479	0.0376	-2.5 to 2.5	Pass
		50	NV	30.180	0.0361	-2.5 to 2.5	Pass
	848.8	20	LV	29.415	0.0347	-2.5 to 2.5	Pass
			NV	26.170	0.0308	-2.5 to 2.5	Pass
			HV	27.714	0.0327	-2.5 to 2.5	Pass
		-30	NV	30.259	0.0356	-2.5 to 2.5	Pass
		-20	NV	30.219	0.0356	-2.5 to 2.5	Pass
		-10	NV	30.863	0.0364	-2.5 to 2.5	Pass
		0	NV	30.424	0.0358	-2.5 to 2.5	Pass
		10	NV	27.913	0.0329	-2.5 to 2.5	Pass
		30	NV	29.894	0.0352	-2.5 to 2.5	Pass
		40	NV	30.082	0.0354	-2.5 to 2.5	Pass
		50	NV	30.558	0.0360	-2.5 to 2.5	Pass
EGPRS	824.2	20	LV	28.193	0.0342	-2.5 to 2.5	Pass
			NV	28.036	0.0340	-2.5 to 2.5	Pass
			HV	28.191	0.0342	-2.5 to 2.5	Pass
		-30	NV	23.645	0.0287	-2.5 to 2.5	Pass
		-20	NV	30.333	0.0368	-2.5 to 2.5	Pass
		-10	NV	27.779	0.0337	-2.5 to 2.5	Pass
		0	NV	30.027	0.0364	-2.5 to 2.5	Pass
		10	NV	28.230	0.0343	-2.5 to 2.5	Pass
		30	NV	29.282	0.0355	-2.5 to 2.5	Pass
		40	NV	28.921	0.0351	-2.5 to 2.5	Pass
		50	NV	30.154	0.0366	-2.5 to 2.5	Pass
	836.6	20	LV	31.056	0.0371	-2.5 to 2.5	Pass
			NV	30.305	0.0362	-2.5 to 2.5	Pass
			HV	30.222	0.0361	-2.5 to 2.5	Pass
		-30	NV	29.737	0.0355	-2.5 to 2.5	Pass
		-20	NV	29.758	0.0356	-2.5 to 2.5	Pass
		-10	NV	29.612	0.0354	-2.5 to 2.5	Pass
		0	NV	29.458	0.0352	-2.5 to 2.5	Pass
		10	NV	29.904	0.0357	-2.5 to 2.5	Pass
		30	NV	29.179	0.0349	-2.5 to 2.5	Pass
		40	NV	29.210	0.0349	-2.5 to 2.5	Pass
		50	NV	29.409	0.0352	-2.5 to 2.5	Pass
	848.8	20	LV	30.304	0.0357	-2.5 to 2.5	Pass
			NV	32.281	0.0380	-2.5 to 2.5	Pass
			HV	31.457	0.0371	-2.5 to 2.5	Pass
		-30	NV	29.907	0.0352	-2.5 to 2.5	Pass
		-20	NV	30.590	0.0360	-2.5 to 2.5	Pass
		-10	NV	29.094	0.0343	-2.5 to 2.5	Pass
		0	NV	31.846	0.0375	-2.5 to 2.5	Pass
		10	NV	30.715	0.0362	-2.5 to 2.5	Pass
		30	NV	30.242	0.0356	-2.5 to 2.5	Pass
		40	NV	29.266	0.0345	-2.5 to 2.5	Pass
		50	NV	25.259	0.0298	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 GSM850_OBW

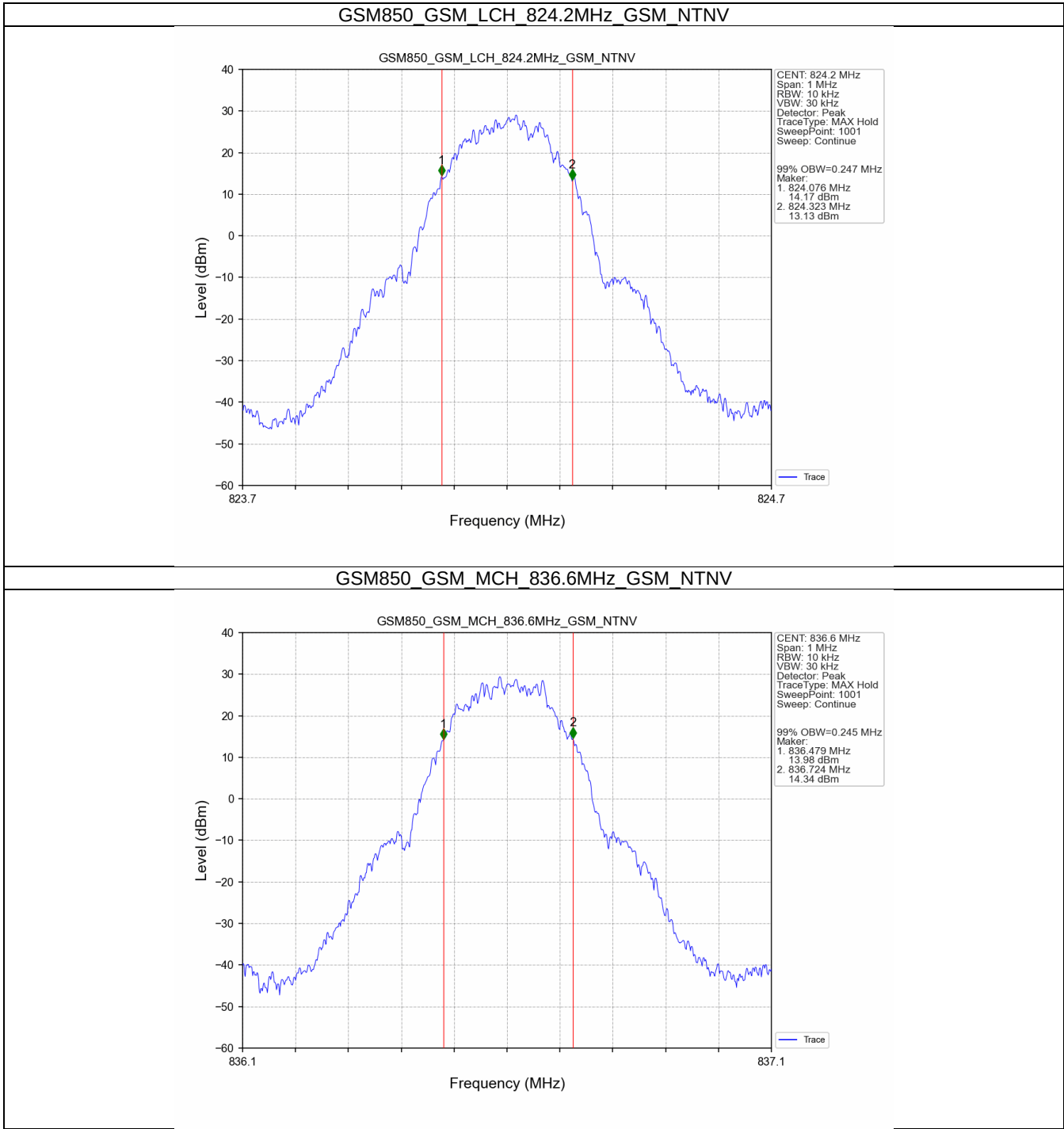
Band: GSM850						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	0.247	/	Pass
			836.6	0.245	/	Pass
			848.8	0.244	/	Pass
	GPRS	1 TX Slot	824.2	0.246	/	Pass
			836.6	0.244	/	Pass
			848.8	0.251	/	Pass
	EGPRS	1 TX Slot	824.2	0.242	/	Pass
			836.6	0.228	/	Pass
			848.8	0.241	/	Pass

3.1.2 GSM850_XDB

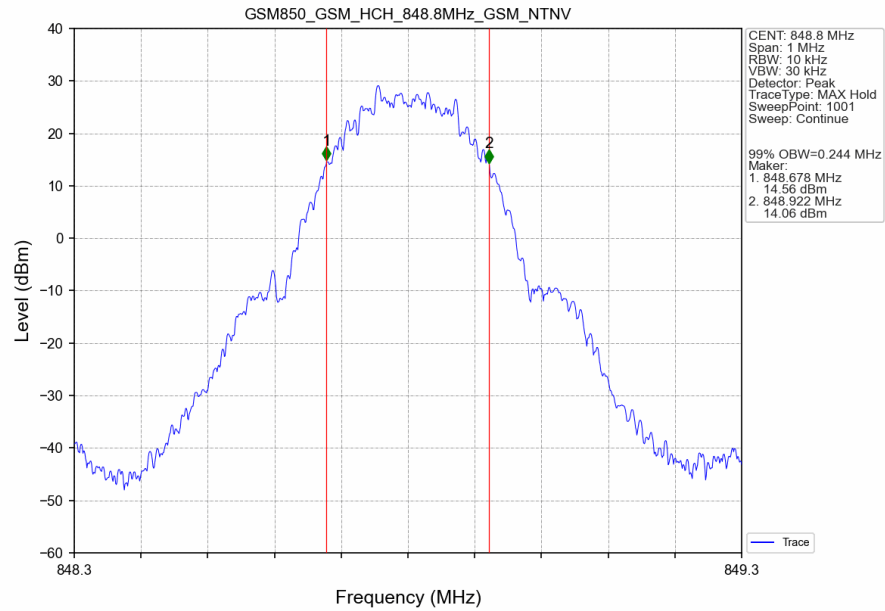
Band: GSM850						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	0.314	/	Pass
			836.6	0.316	/	Pass
			848.8	0.317	/	Pass
	GPRS	1 TX Slot	824.2	0.321	/	Pass
			836.6	0.314	/	Pass
			848.8	0.315	/	Pass
	EGPRS	1 TX Slot	824.2	0.310	/	Pass
			836.6	0.294	/	Pass
			848.8	0.316	/	Pass

3.2 Test Graph

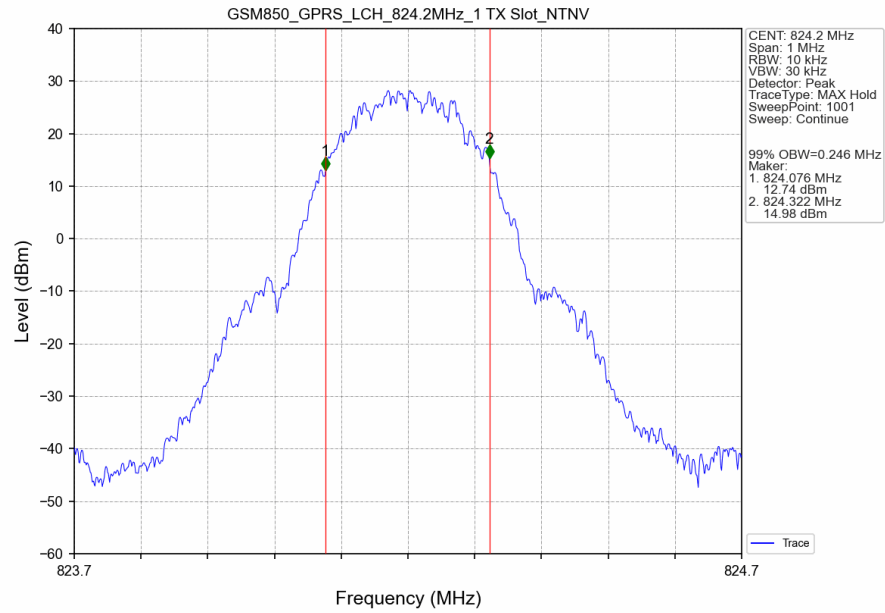
3.2.1 GSM850_OBW



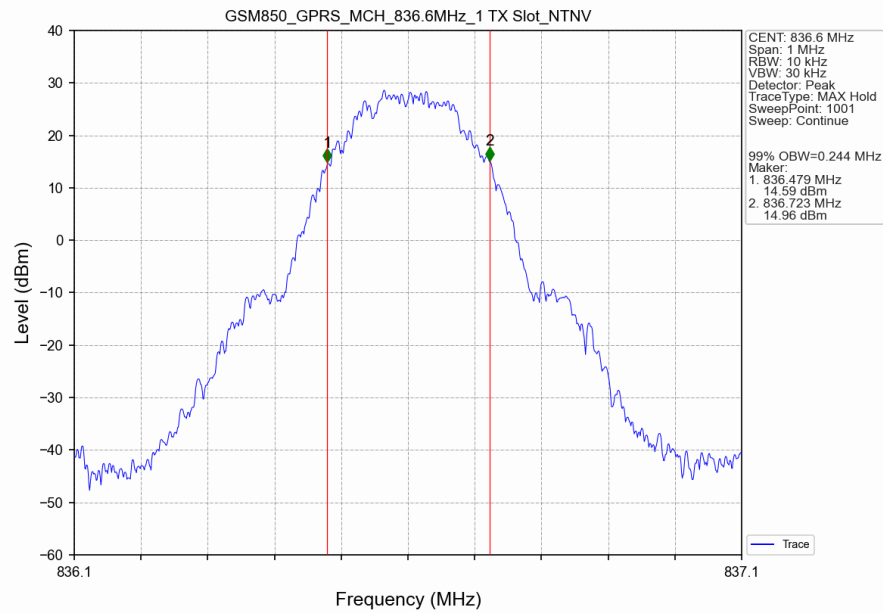
GSM850 GSM HCH 848.8MHz GSM NTN



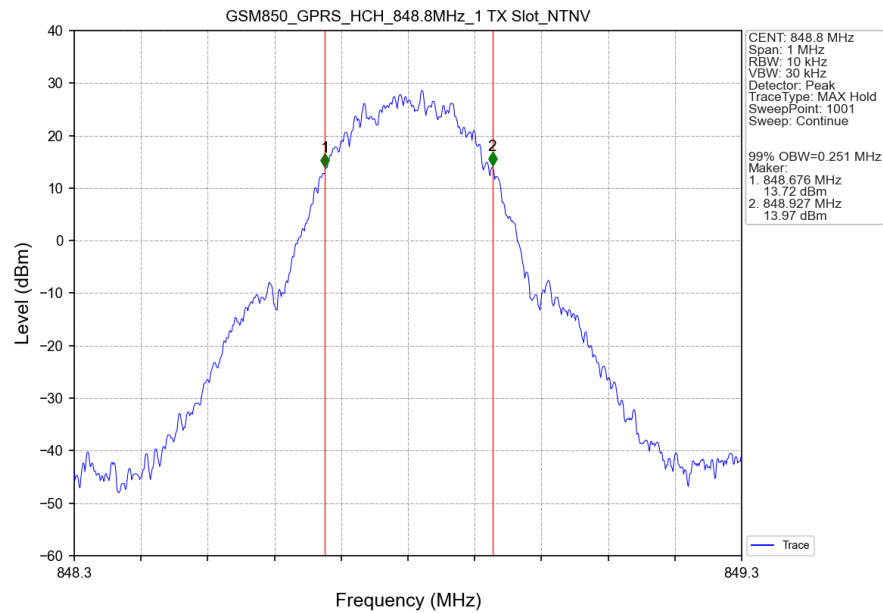
GSM850 GPRS LCH 824.2MHz 1 TX Slot NTN



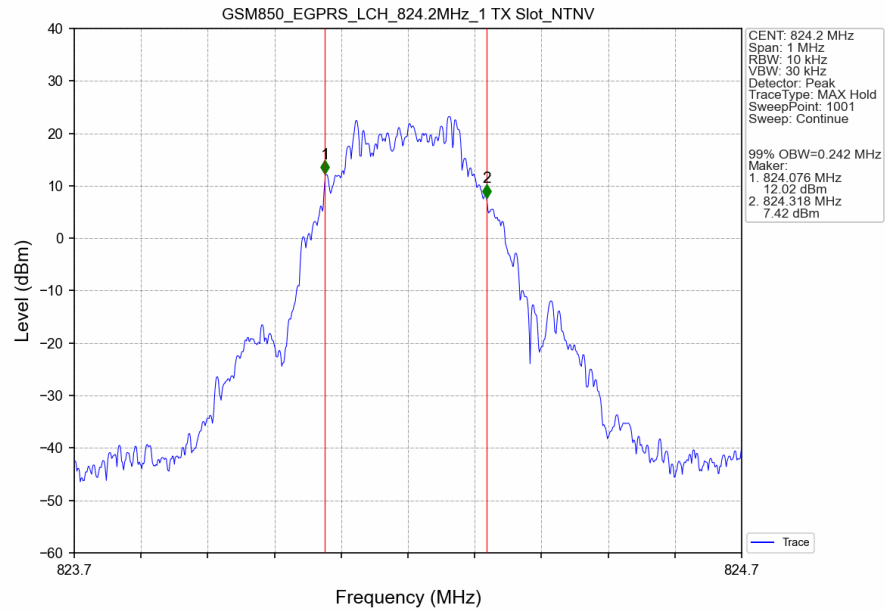
GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



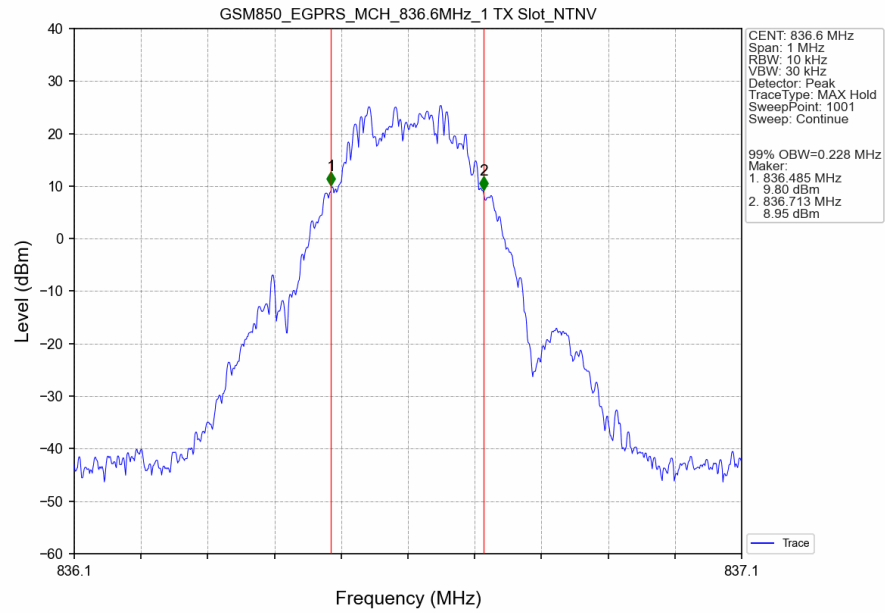
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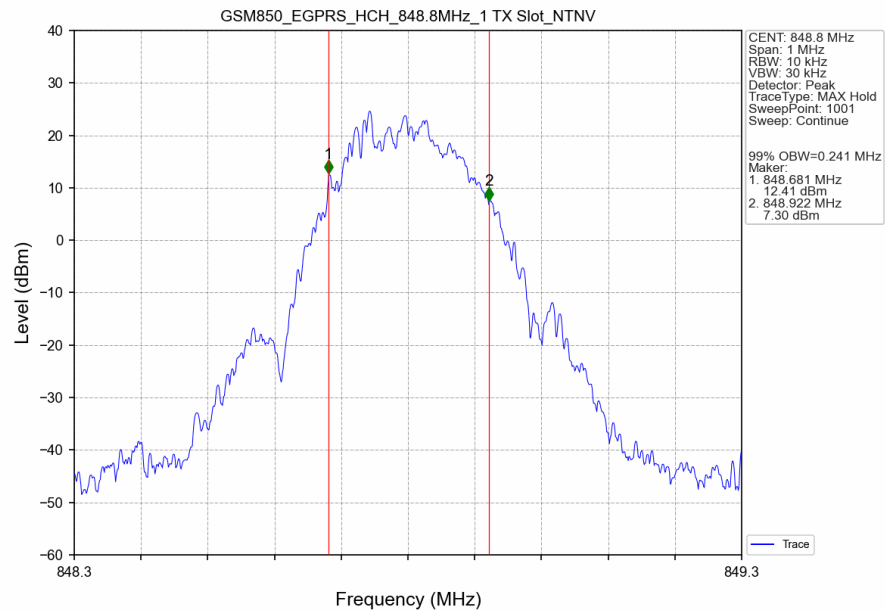
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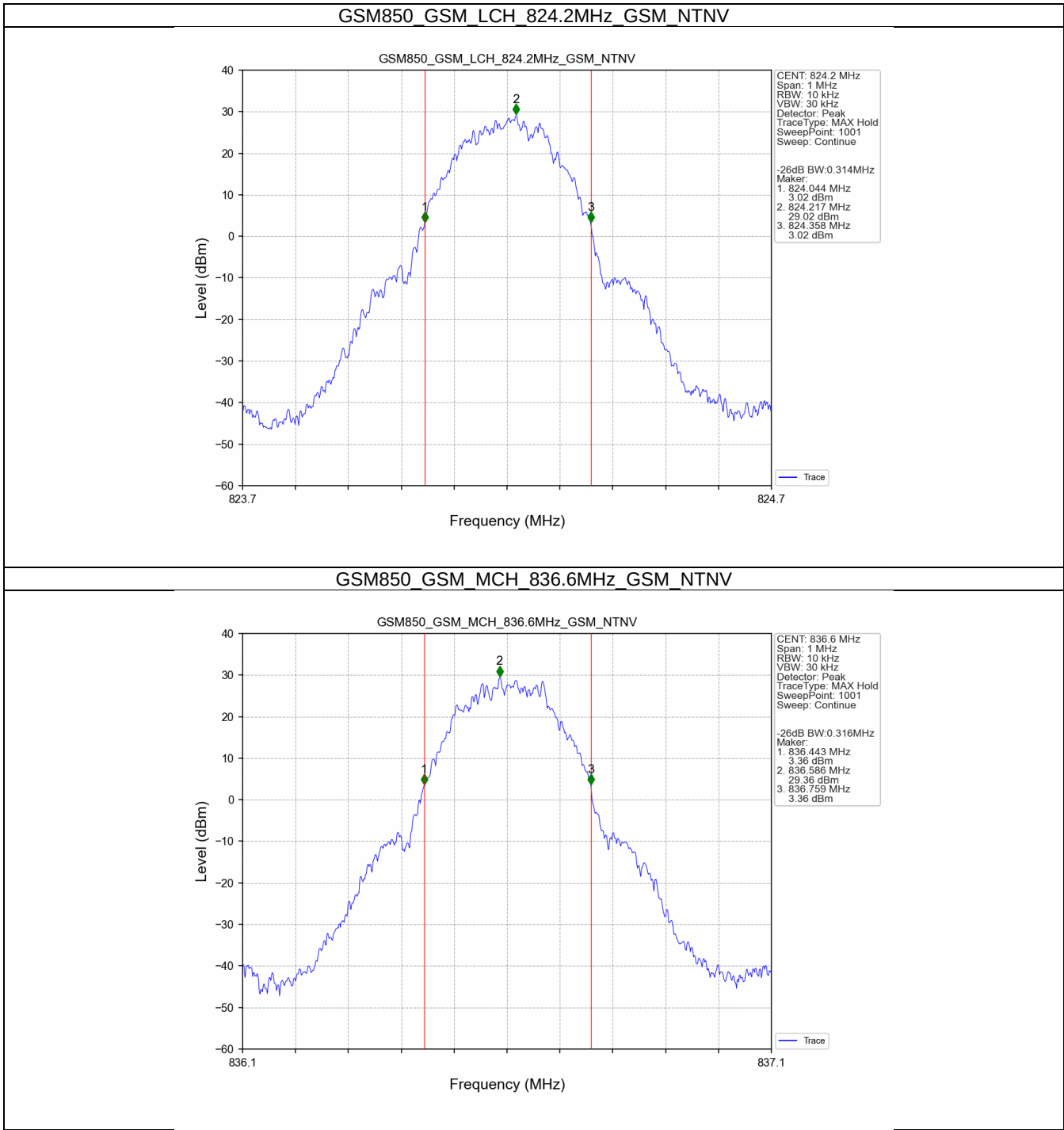
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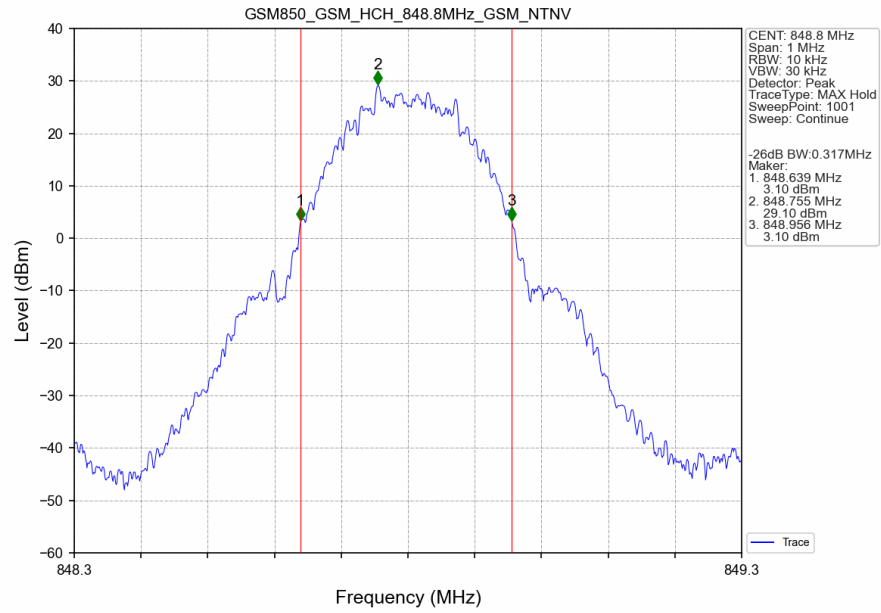
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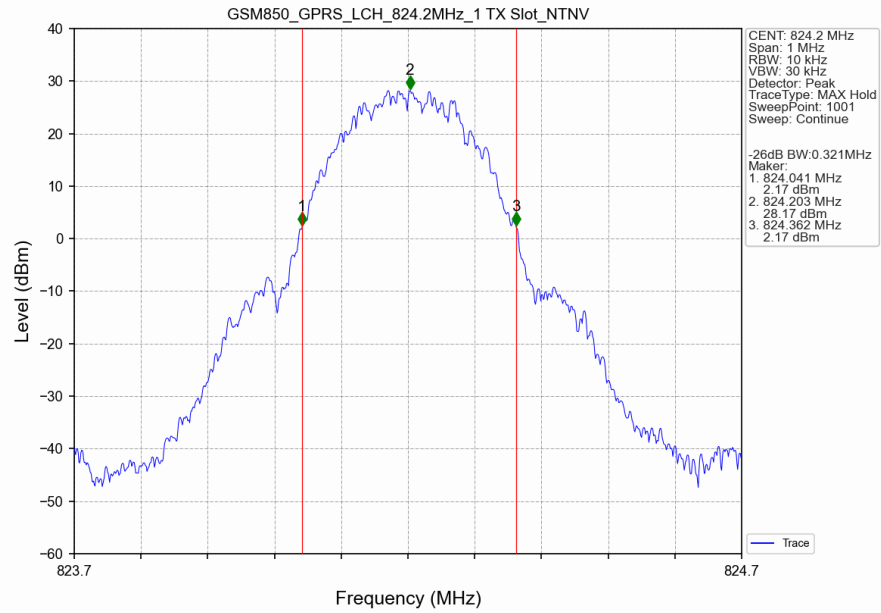
3.2.2 GSM850_XDB



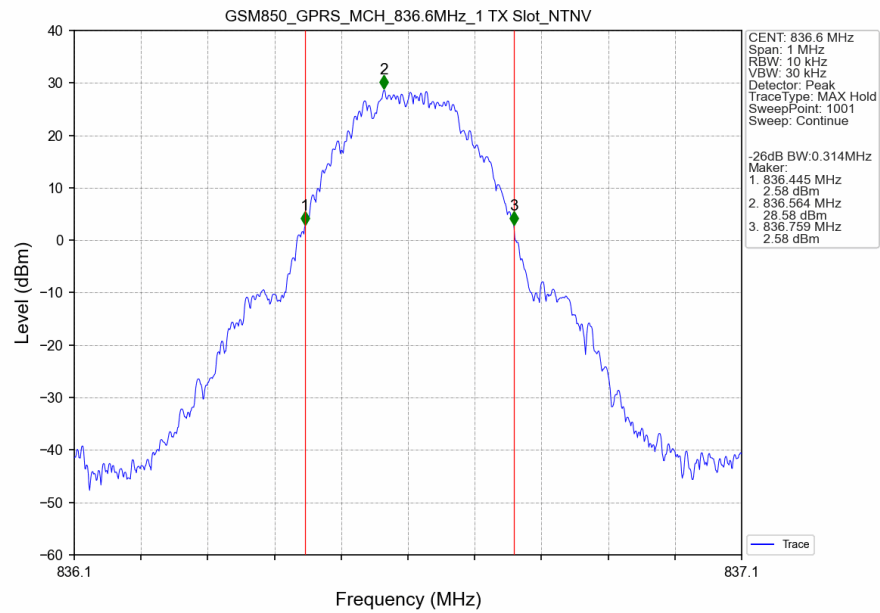
GSM850 GSM HCH 848.8MHz GSM NTN



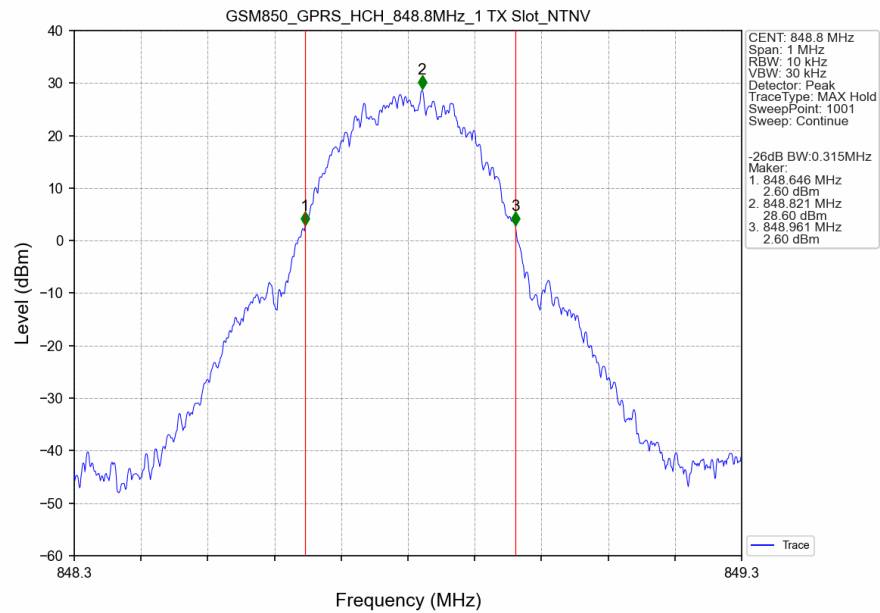
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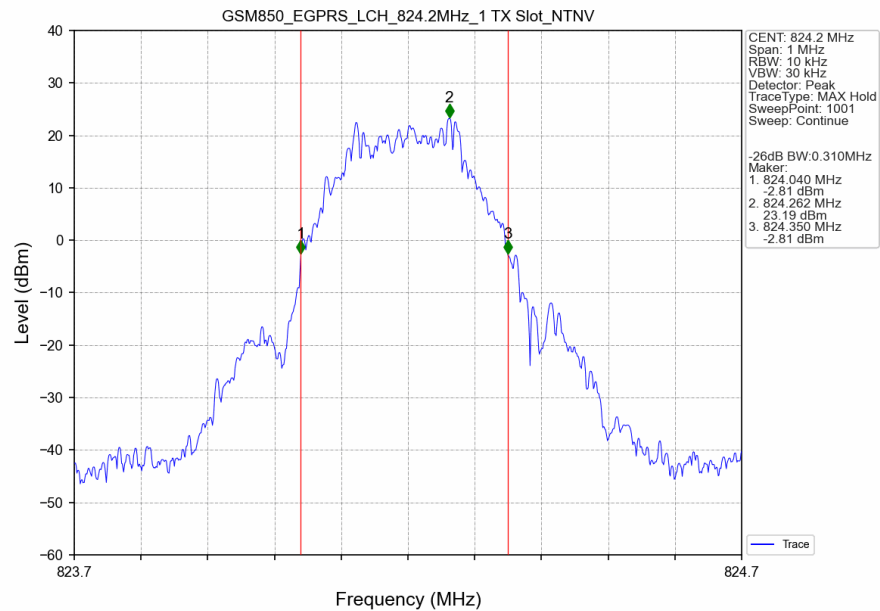
GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



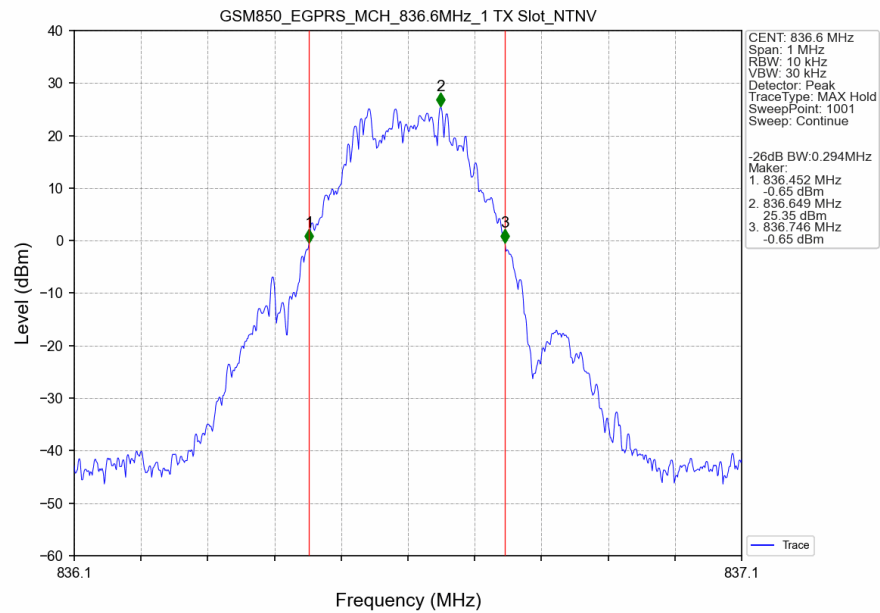
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



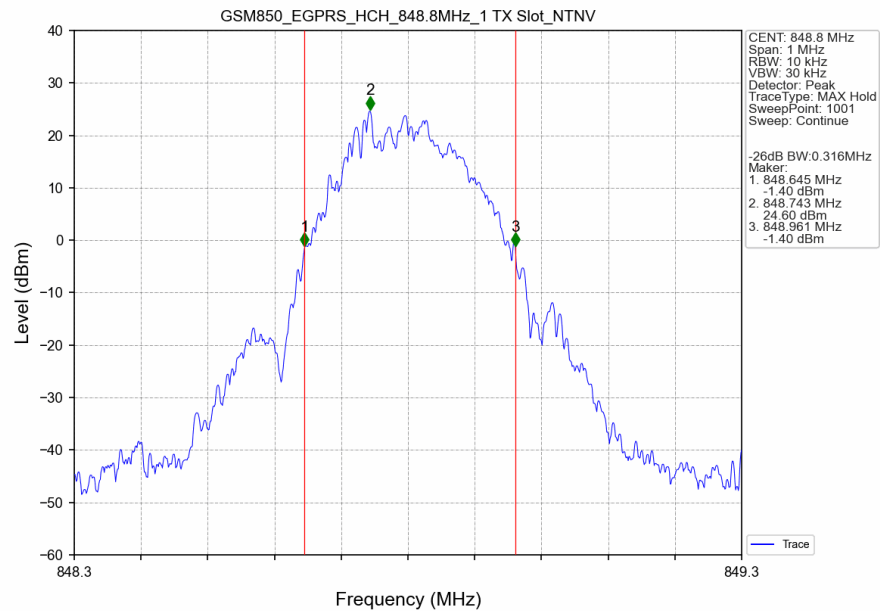
GSM850 EGPRS LCH 824.2MHz 1 TX Slot NTNV



GSM850 EGPRS MCH 836.6MHz 1 TX Slot NTNV



GSM850 EGPRS HCH 848.8MHz 1 TX Slot NTNV



4. Peak-Average Ratio

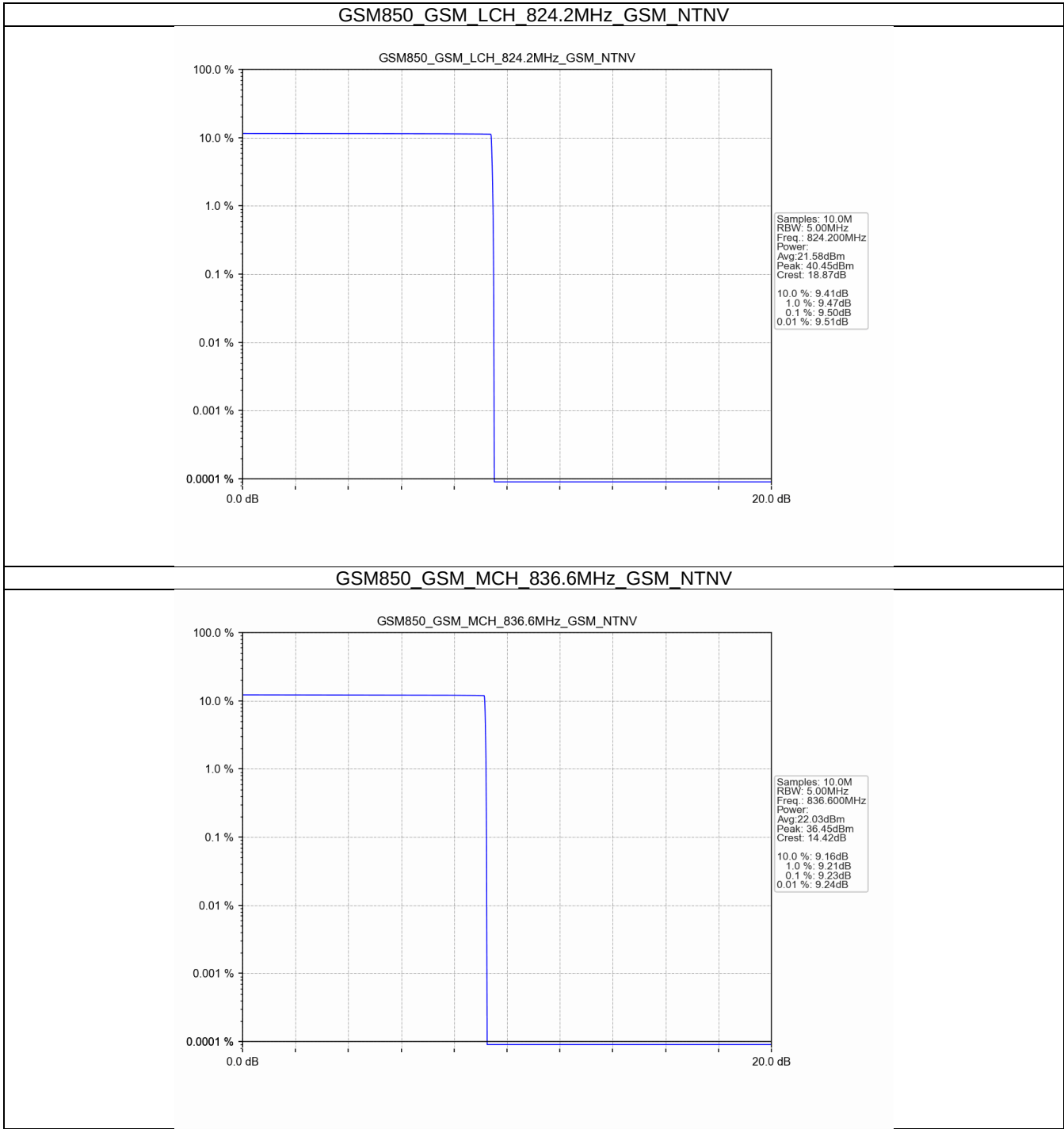
4.1 Test Result

4.1.1 GSM850

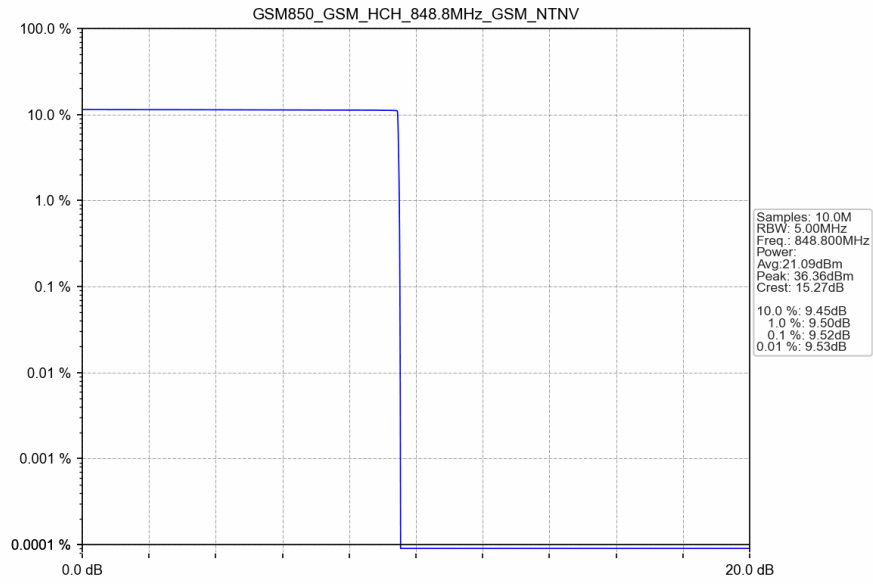
Band: GSM850						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	9.50	<=13	Pass
			836.6	9.23	<=13	Pass
			848.8	9.52	<=13	Pass
	GPRS	4 TX Slots	824.2	3.77	<=13	Pass
			836.6	3.92	<=13	Pass
			848.8	3.80	<=13	Pass
	EGPRS	4 TX Slots	824.2	10.04	<=13	Pass
			836.6	9.93	<=13	Pass
			848.8	10.59	<=13	Pass

4.2 Test Graph

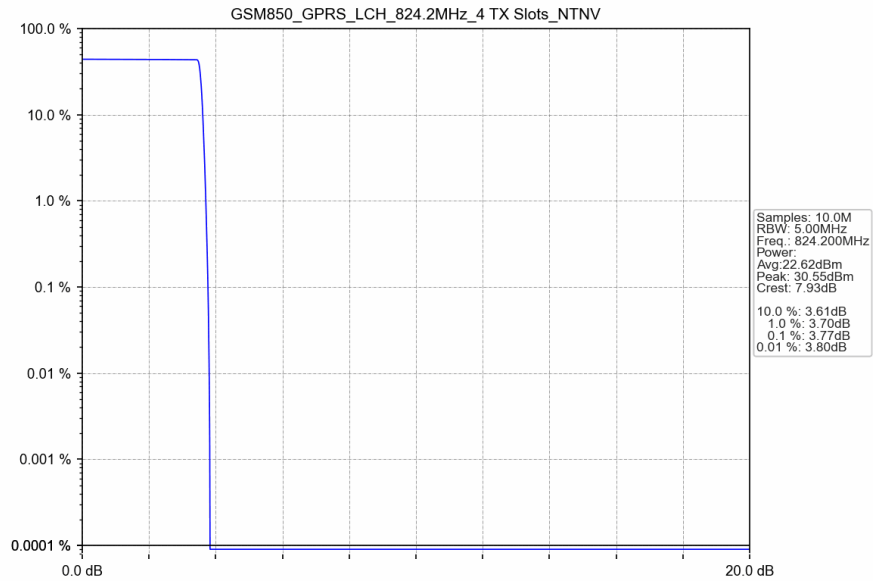
4.2.1 GSM850



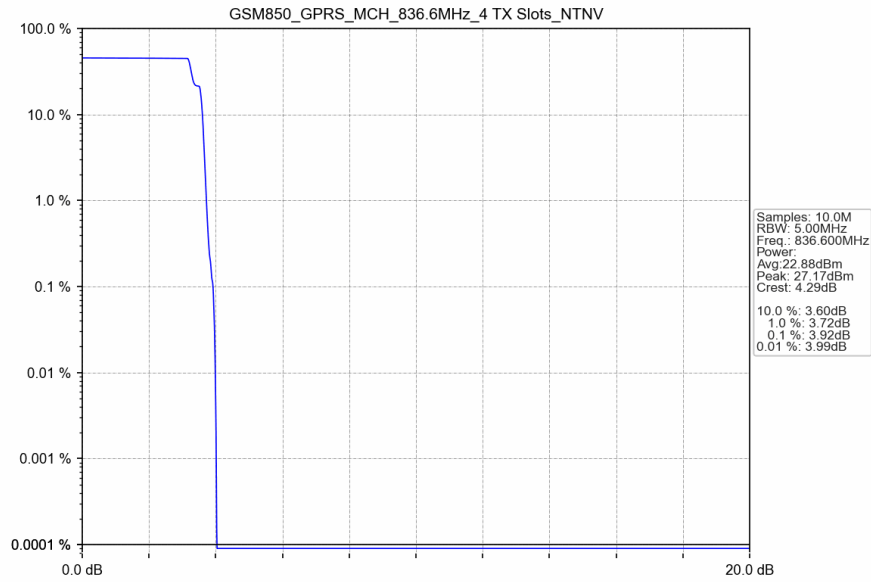
GSM850 GSM HCH 848.8MHz GSM NTNV



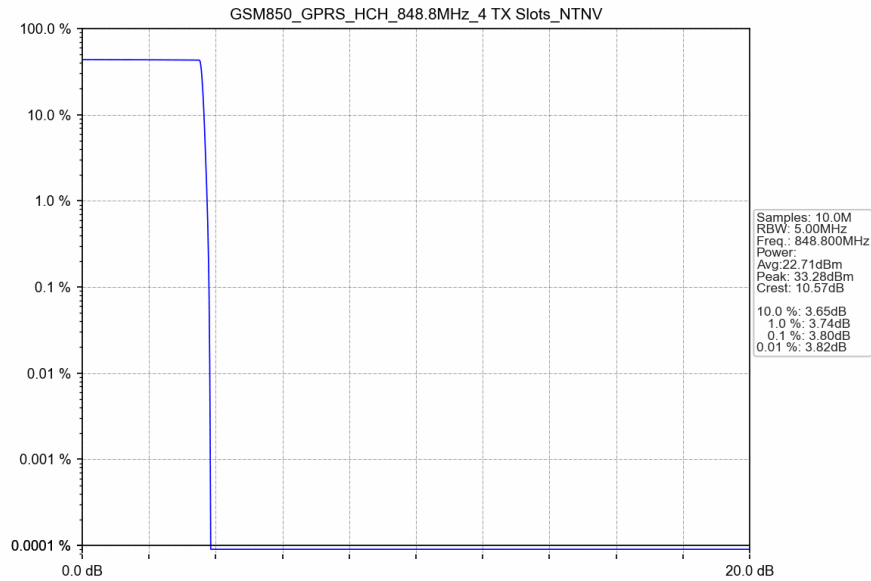
GSM850 GPRS LCH 824.2MHz 4 TX Slots NTNV



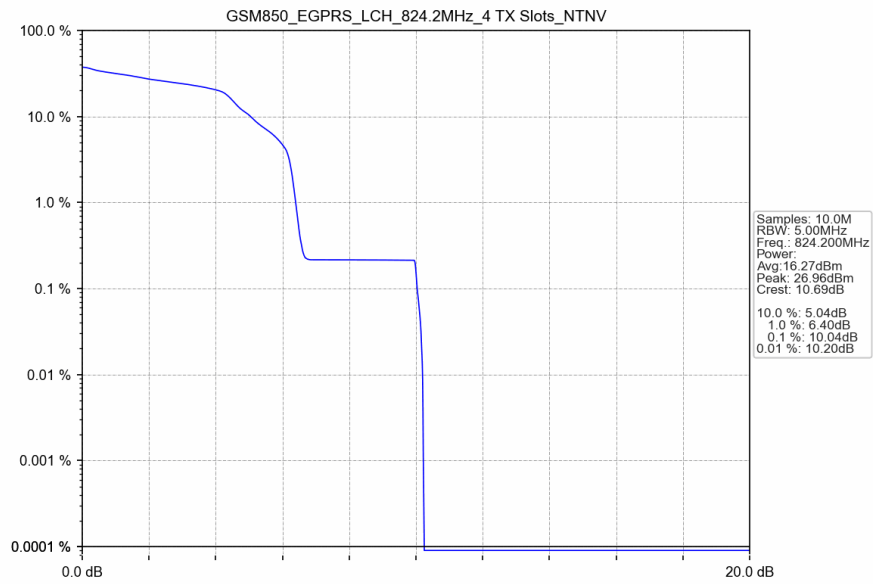
GSM850 GPRS MCH 836.6MHz 4 TX Slots NTNV



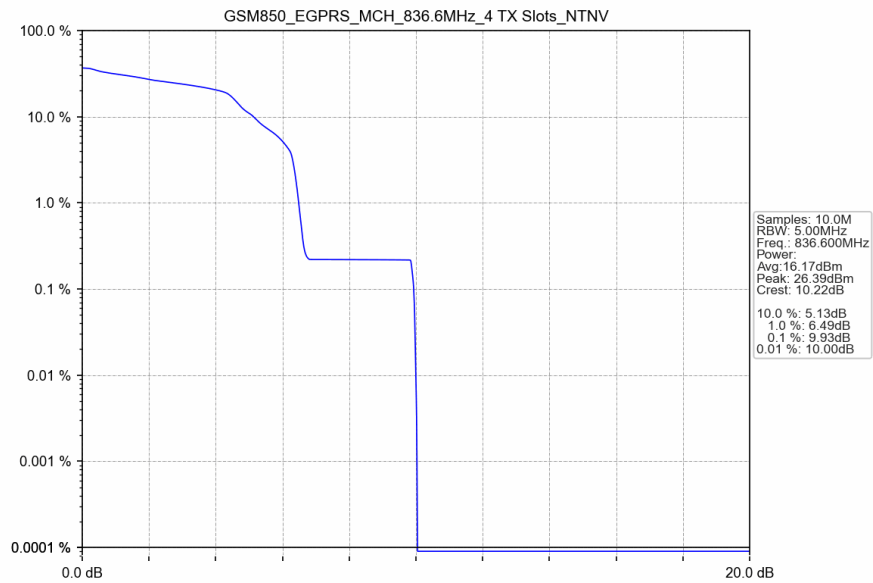
GSM850 GPRS HCH 848.8MHz 4 TX Slots NTNV



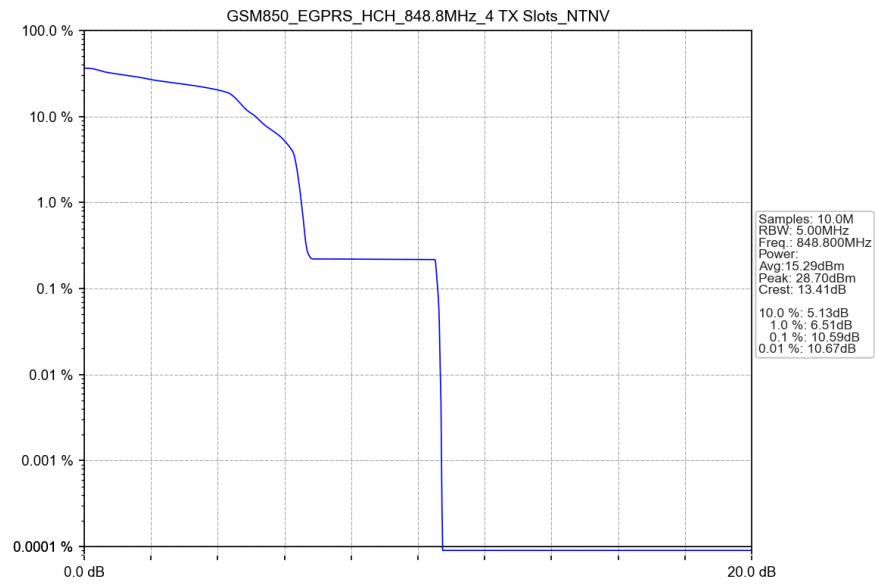
GSM850_EGPRS_LCH_824.2MHz_4 TX Slots_NTNV



GSM850_EGPRS_MCH_836.6MHz_4 TX Slots_NTNV



GSM850 EGPRS HCH 848.8MHz 4 TX Slots NTNV



5. Spurious Emission

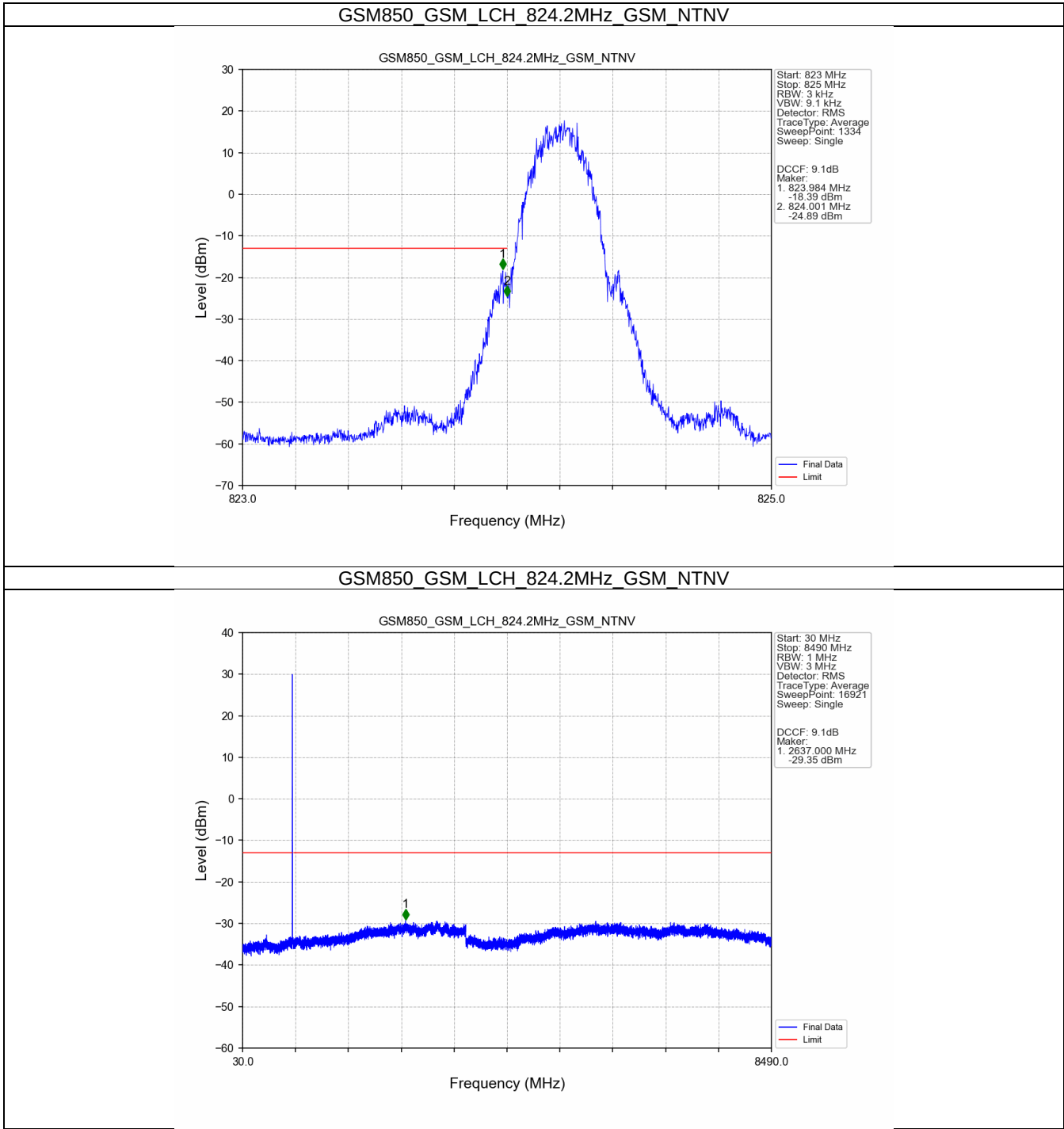
5.1 Test Result

5.1.1 GSM850

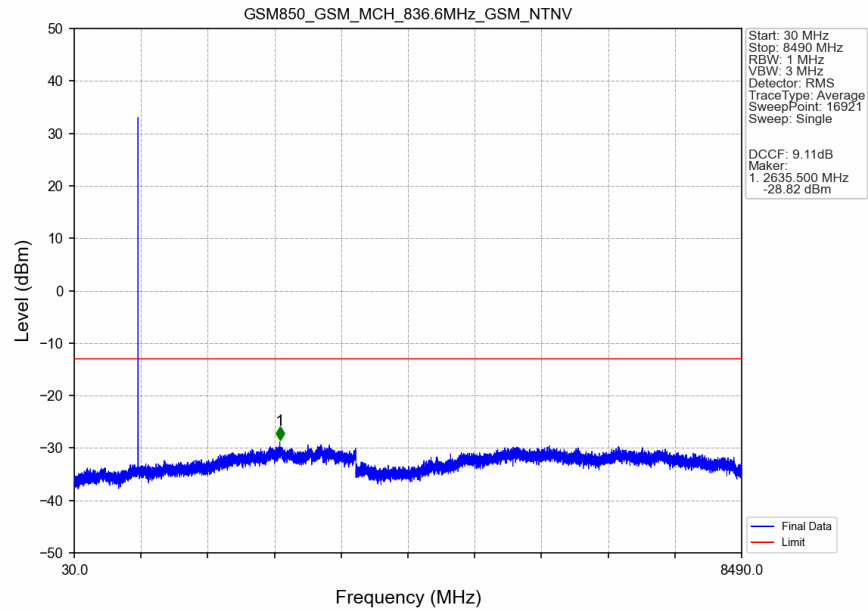
Band: GSM850						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	Refer To Test Graph	Pass	
			836.6	Refer To Test Graph	Pass	
			848.8	Refer To Test Graph	Pass	
	GPRS	1 TX Slot	824.2	Refer To Test Graph	Pass	
			836.6	Refer To Test Graph	Pass	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

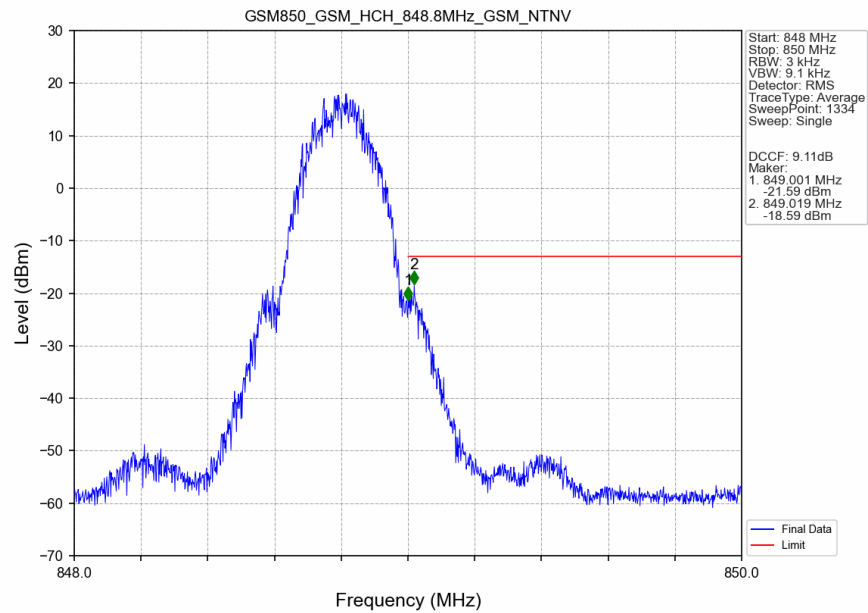
5.2.1 GSM850



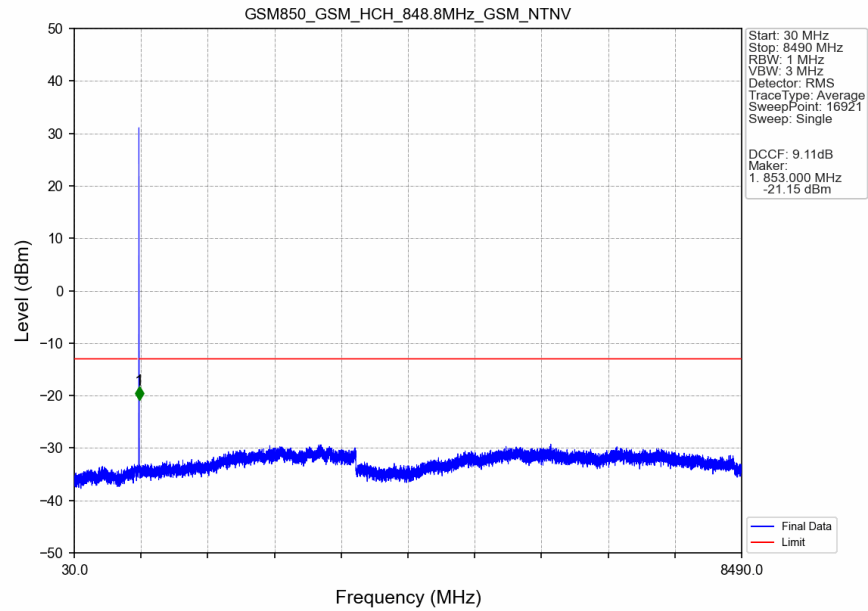
GSM850 GSM MCH 836.6MHz GSM NTNV



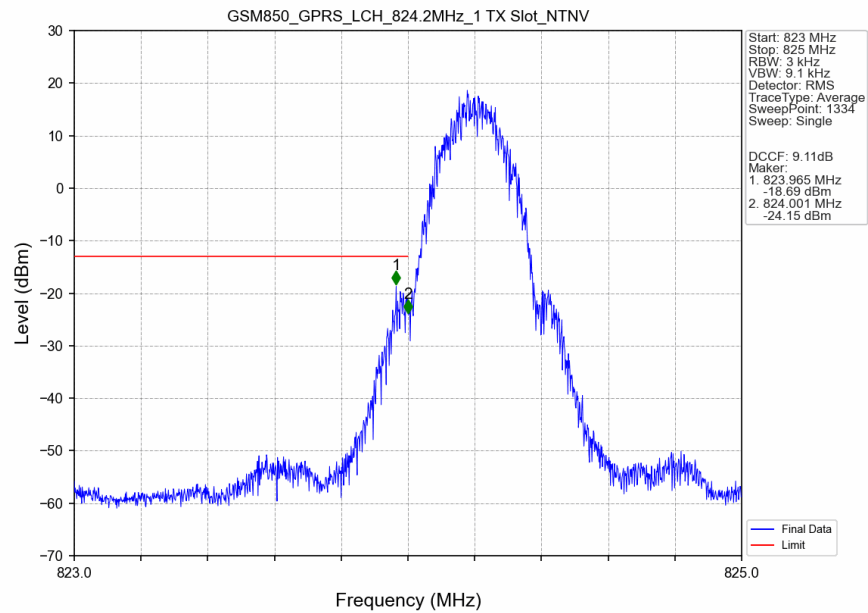
GSM850 GSM HCH 848.8MHz GSM NTNV



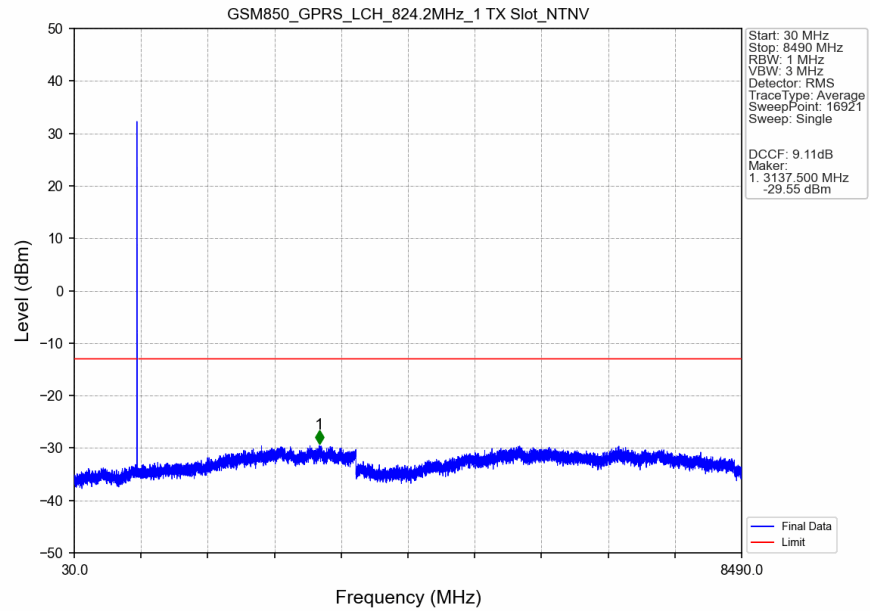
GSM850 GSM HCH 848.8MHz GSM NTN



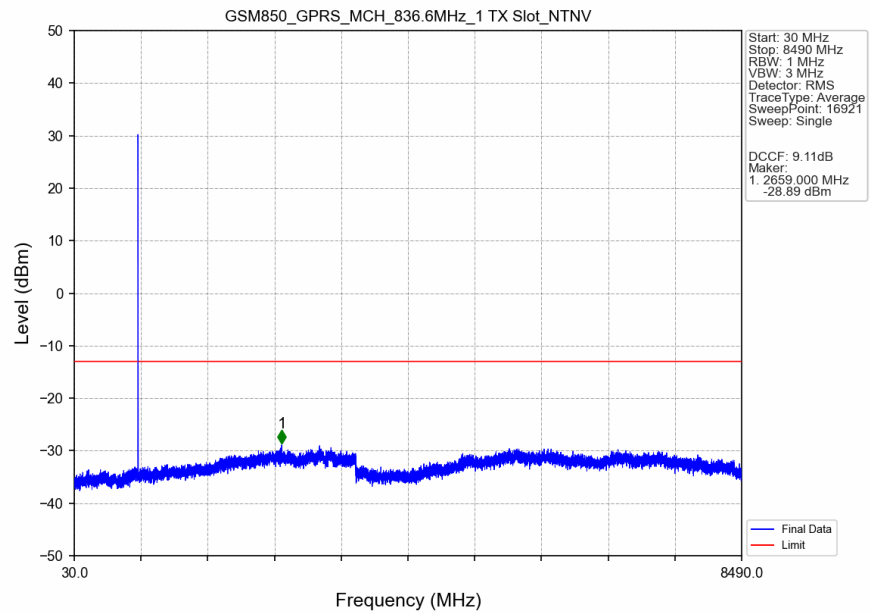
GSM850 GPRS LCH 824.2MHz 1 TX Slot NTN



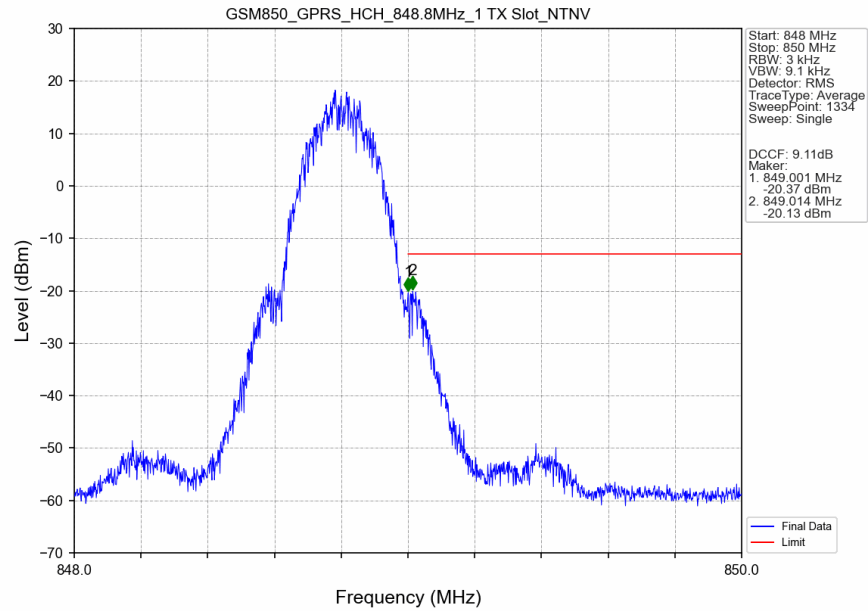
GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



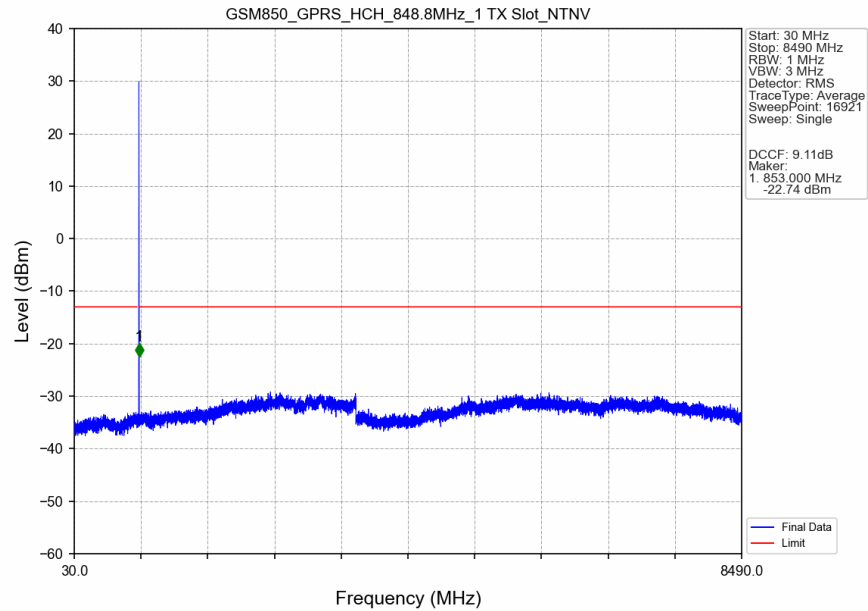
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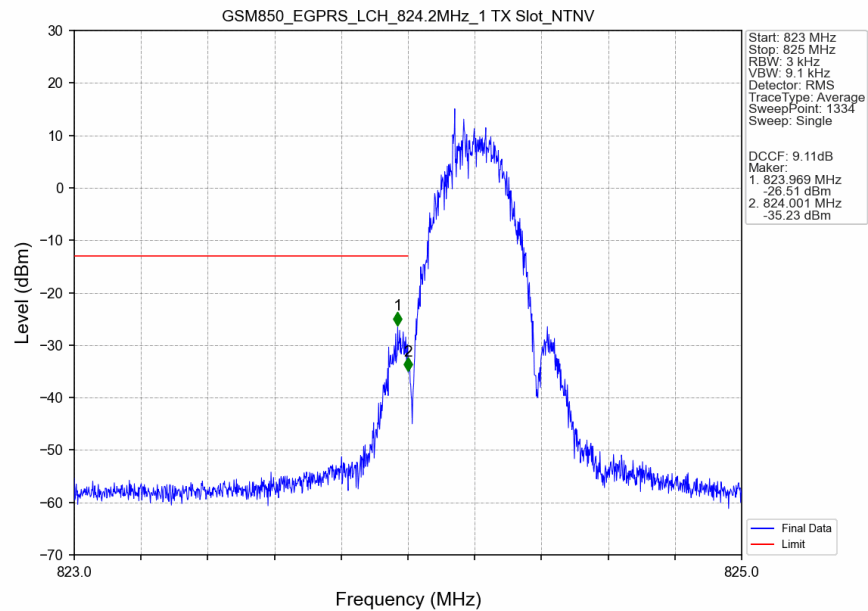
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



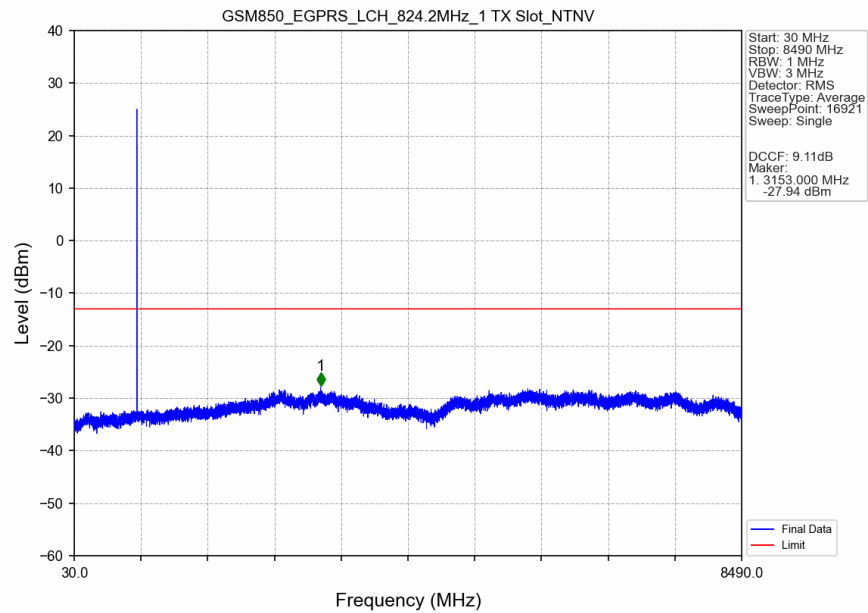
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



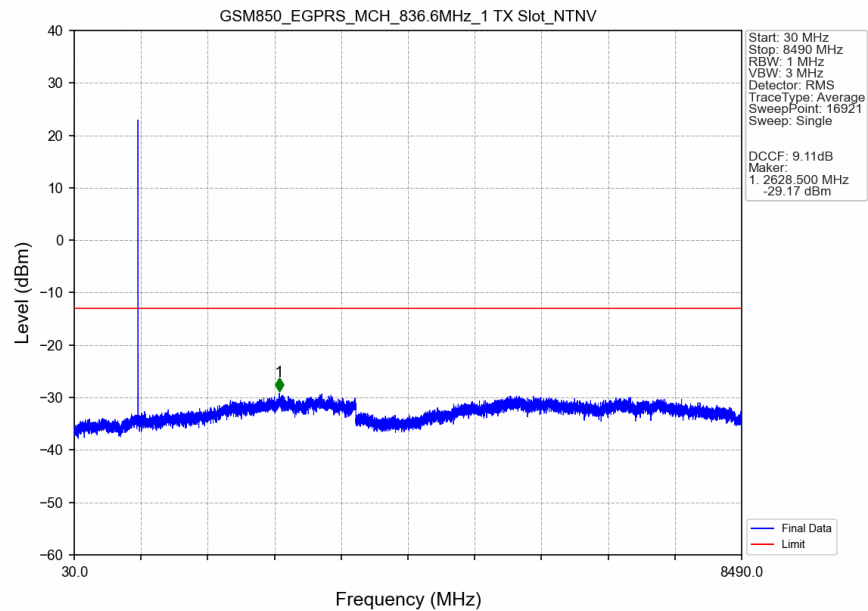
GSM850 EGPRS LCH 824.2MHz 1 TX Slot_NTNV



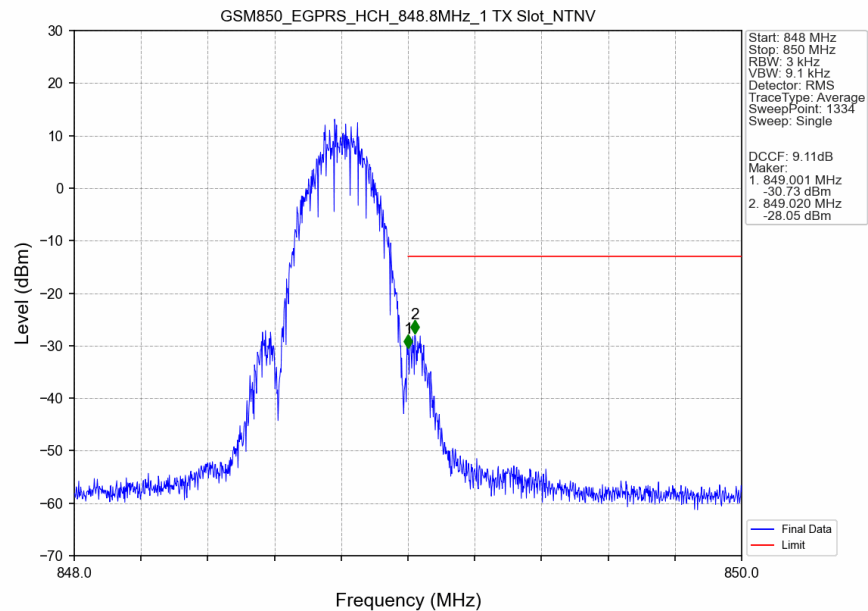
GSM850 EGPRS LCH 824.2MHz 1 TX Slot_NTNV



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

