



Appendix A.1

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	32.36	2.53	32.74	<=38.45	Pass
		2 TX Slots	824.2	31.23	2.53	31.61	<=38.45	Pass
		3 TX Slots	824.2	29.21	2.53	29.59	<=38.45	Pass
		4 TX Slots	824.2	28.54	2.53	28.92	<=38.45	Pass
		1 TX Slot	836.6	32.36	2.53	32.74	<=38.45	Pass
		2 TX Slots	836.6	31.28	2.53	31.66	<=38.45	Pass
		3 TX Slots	836.6	29.27	2.53	29.65	<=38.45	Pass
		4 TX Slots	836.6	28.51	2.53	28.89	<=38.45	Pass
		1 TX Slot	848.8	32.69	2.53	33.07	<=38.45	Pass
		2 TX Slots	848.8	31.75	2.53	32.13	<=38.45	Pass
		3 TX Slots	848.8	29.64	2.53	30.02	<=38.45	Pass
		4 TX Slots	848.8	28.94	2.53	29.32	<=38.45	Pass
	EGPRS	1 TX Slot	824.2	26.36	2.53	26.74	<=38.45	Pass
		2 TX Slots	824.2	25.26	2.53	25.64	<=38.45	Pass
		3 TX Slots	824.2	25.56	2.53	25.94	<=38.45	Pass
		4 TX Slots	824.2	22.77	2.53	23.15	<=38.45	Pass
		1 TX Slot	836.6	26.36	2.53	26.74	<=38.45	Pass
		2 TX Slots	836.6	25.35	2.53	25.73	<=38.45	Pass
		3 TX Slots	836.6	23.63	2.53	24.01	<=38.45	Pass
		4 TX Slots	836.6	22.75	2.53	23.13	<=38.45	Pass
		1 TX Slot	848.8	26.73	2.53	27.11	<=38.45	Pass
		2 TX Slots	848.8	25.59	2.53	25.97	<=38.45	Pass
		3 TX Slots	848.8	24.08	2.53	24.46	<=38.45	Pass
		4 TX Slots	848.8	24.16	2.53	24.54	<=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 (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	

GPRS	824.2	20	3.30	24.408	0.0296	-2.5 to 2.5	Pass
			3.80	21.438	0.0260	-2.5 to 2.5	Pass
			4.30	24.021	0.0291	-2.5 to 2.5	Pass
		-30	3.80	22.503	0.0273	-2.5 to 2.5	Pass
		-20	3.80	21.212	0.0257	-2.5 to 2.5	Pass
		-10	3.80	20.986	0.0255	-2.5 to 2.5	Pass
		0	3.80	20.857	0.0253	-2.5 to 2.5	Pass
		10	3.80	22.826	0.0277	-2.5 to 2.5	Pass
		30	3.80	19.824	0.0241	-2.5 to 2.5	Pass
		40	3.80	24.505	0.0297	-2.5 to 2.5	Pass
		50	3.80	16.950	0.0206	-2.5 to 2.5	Pass
	836.6	20	3.30	20.792	0.0249	-2.5 to 2.5	Pass
			3.80	21.535	0.0257	-2.5 to 2.5	Pass
			4.30	17.757	0.0212	-2.5 to 2.5	Pass
		-30	3.80	22.051	0.0264	-2.5 to 2.5	Pass
		-20	3.80	22.310	0.0267	-2.5 to 2.5	Pass
		-10	3.80	20.792	0.0249	-2.5 to 2.5	Pass
		0	3.80	20.502	0.0245	-2.5 to 2.5	Pass
		10	3.80	20.728	0.0248	-2.5 to 2.5	Pass
		30	3.80	20.211	0.0242	-2.5 to 2.5	Pass
		40	3.80	21.502	0.0257	-2.5 to 2.5	Pass
		50	3.80	21.212	0.0254	-2.5 to 2.5	Pass
	848.8	20	3.30	22.439	0.0264	-2.5 to 2.5	Pass
			3.80	22.213	0.0262	-2.5 to 2.5	Pass
			4.30	24.796	0.0292	-2.5 to 2.5	Pass
		-30	3.80	22.923	0.0270	-2.5 to 2.5	Pass
		-20	3.80	22.762	0.0268	-2.5 to 2.5	Pass
		-10	3.80	22.245	0.0262	-2.5 to 2.5	Pass
		0	3.80	22.955	0.0270	-2.5 to 2.5	Pass
		10	3.80	21.825	0.0257	-2.5 to 2.5	Pass
		30	3.80	21.922	0.0258	-2.5 to 2.5	Pass
		40	3.80	22.794	0.0269	-2.5 to 2.5	Pass
EGPRS	824.2	20	3.30	26.313	0.0319	-2.5 to 2.5	Pass
			3.80	25.118	0.0305	-2.5 to 2.5	Pass
			4.30	24.473	0.0297	-2.5 to 2.5	Pass
		-30	3.80	23.181	0.0281	-2.5 to 2.5	Pass
		-20	3.80	26.474	0.0321	-2.5 to 2.5	Pass
		-10	3.80	25.441	0.0309	-2.5 to 2.5	Pass
		0	3.80	26.313	0.0319	-2.5 to 2.5	Pass
		10	3.80	24.699	0.0300	-2.5 to 2.5	Pass
		30	3.80	24.731	0.0300	-2.5 to 2.5	Pass
		40	3.80	26.830	0.0326	-2.5 to 2.5	Pass
		50	3.80	22.923	0.0278	-2.5 to 2.5	Pass
	836.6	20	3.30	24.279	0.0290	-2.5 to 2.5	Pass
			3.80	23.181	0.0277	-2.5 to 2.5	Pass
			4.30	22.665	0.0271	-2.5 to 2.5	Pass
		-30	3.80	22.439	0.0268	-2.5 to 2.5	Pass
		-20	3.80	24.699	0.0295	-2.5 to 2.5	Pass
		-10	3.80	24.021	0.0287	-2.5 to 2.5	Pass
		0	3.80	22.794	0.0272	-2.5 to 2.5	Pass
		10	3.80	22.471	0.0269	-2.5 to 2.5	Pass
		30	3.80	23.827	0.0285	-2.5 to 2.5	Pass



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		40	3.80	24.053	0.0288	-2.5 to 2.5	Pass
		50	3.80	25.312	0.0303	-2.5 to 2.5	Pass
	848.8	20	3.30	24.344	0.0287	-2.5 to 2.5	Pass
			3.80	26.281	0.0310	-2.5 to 2.5	Pass
			4.30	26.926	0.0317	-2.5 to 2.5	Pass
		-30	3.80	24.214	0.0285	-2.5 to 2.5	Pass
		-20	3.80	25.280	0.0298	-2.5 to 2.5	Pass
		-10	3.80	26.571	0.0313	-2.5 to 2.5	Pass
		0	3.80	25.022	0.0295	-2.5 to 2.5	Pass
		10	3.80	26.216	0.0309	-2.5 to 2.5	Pass
		30	3.80	28.186	0.0332	-2.5 to 2.5	Pass
		40	3.80	27.185	0.0320	-2.5 to 2.5	Pass
		50	3.80	23.375	0.0275	-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	0.272	/	Pass
			836.6	0.270	/	Pass
			848.8	0.271	/	Pass
	EGPRS	1 TX Slot	824.2	0.250	/	Pass
			836.6	0.254	/	Pass
			848.8	0.250	/	Pass

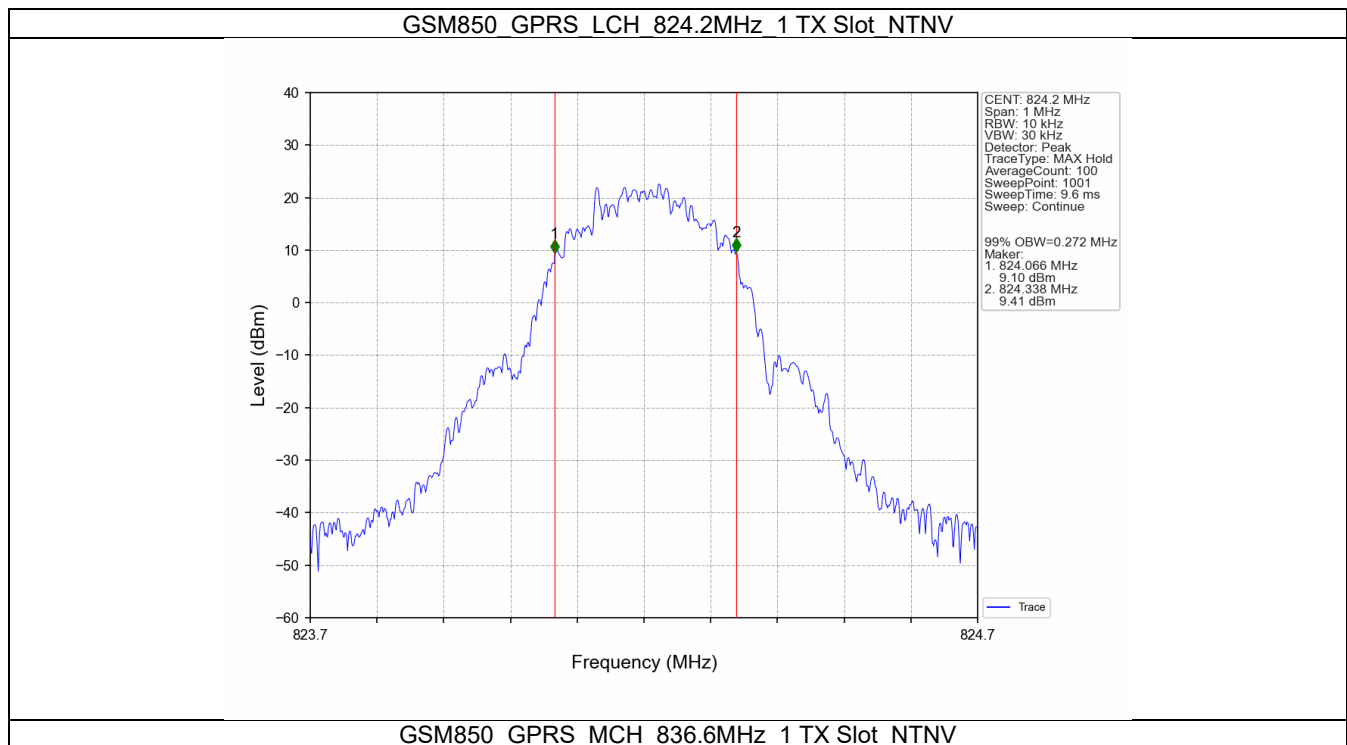
3.1.2 GSM850_XDB

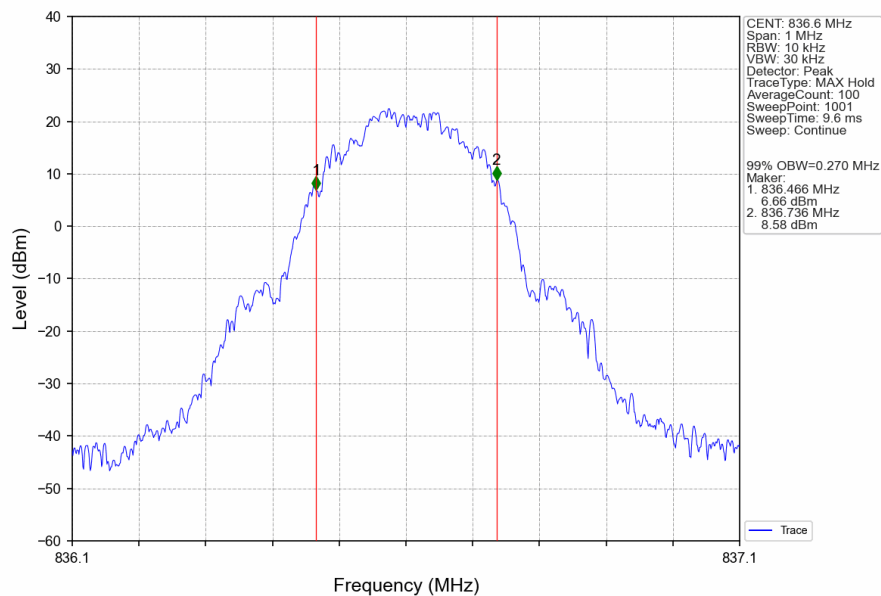
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ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	824.2	0.335	/	Pass
			836.6	0.337	/	Pass
			848.8	0.333	/	Pass
	EGPRS	1 TX Slot	824.2	0.328	/	Pass
			836.6	0.329	/	Pass
			848.8	0.323	/	Pass



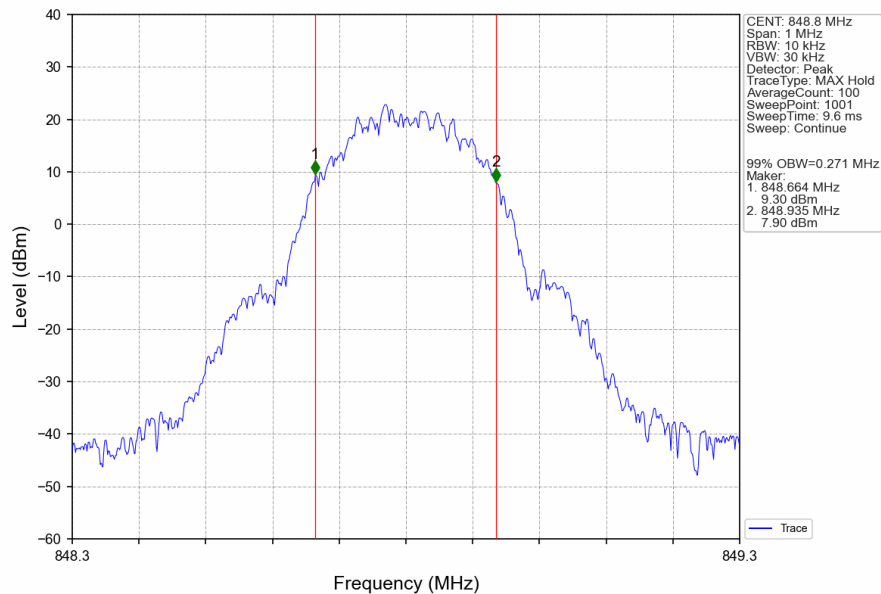
3.2 Test Graph

3.2.1 GSM850_OBW

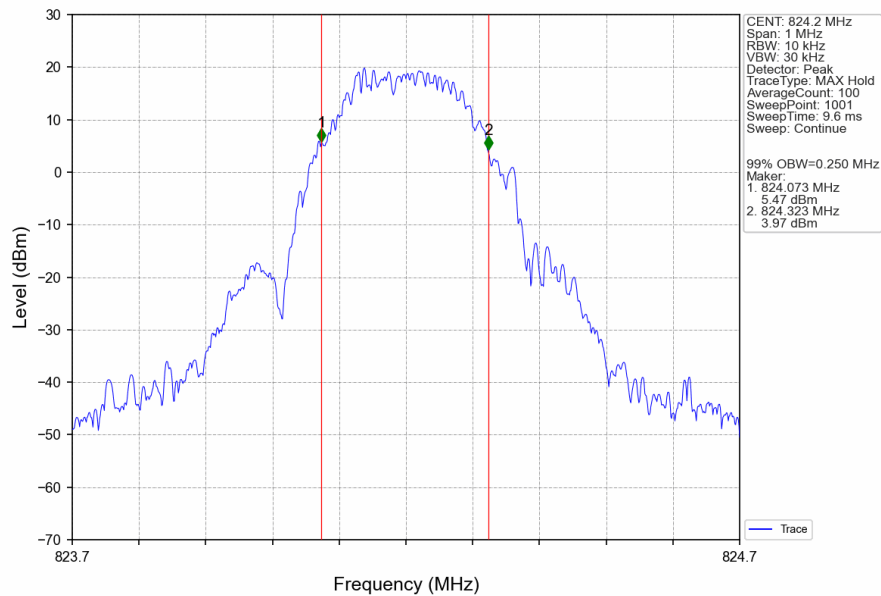




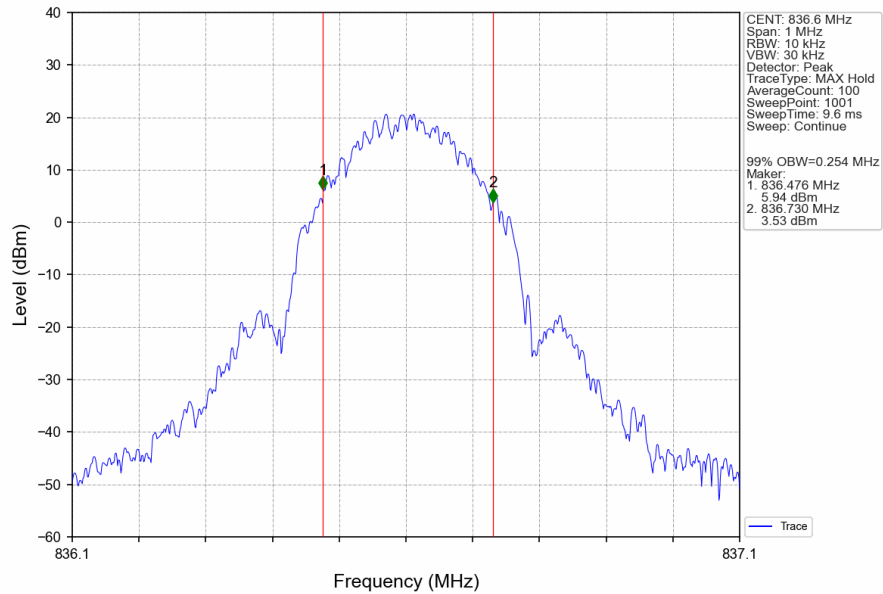
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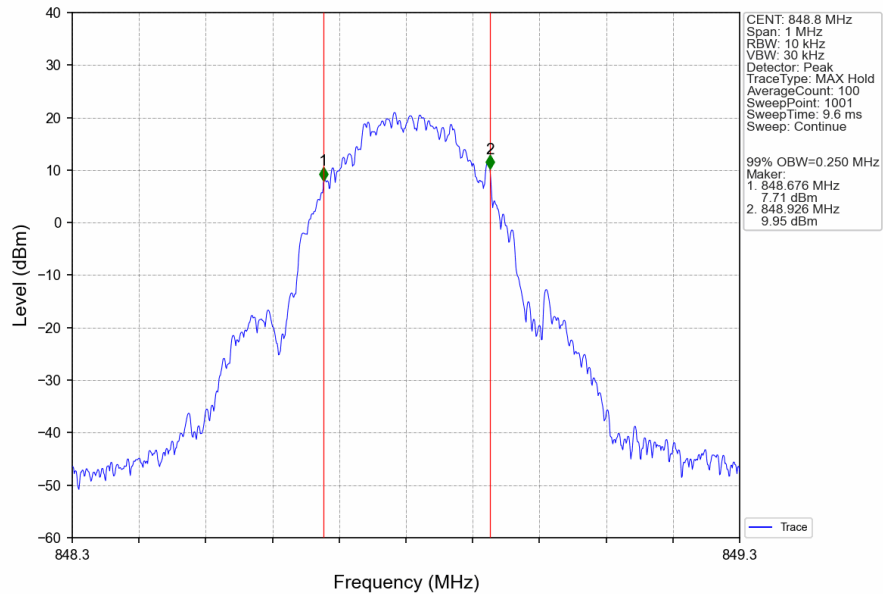
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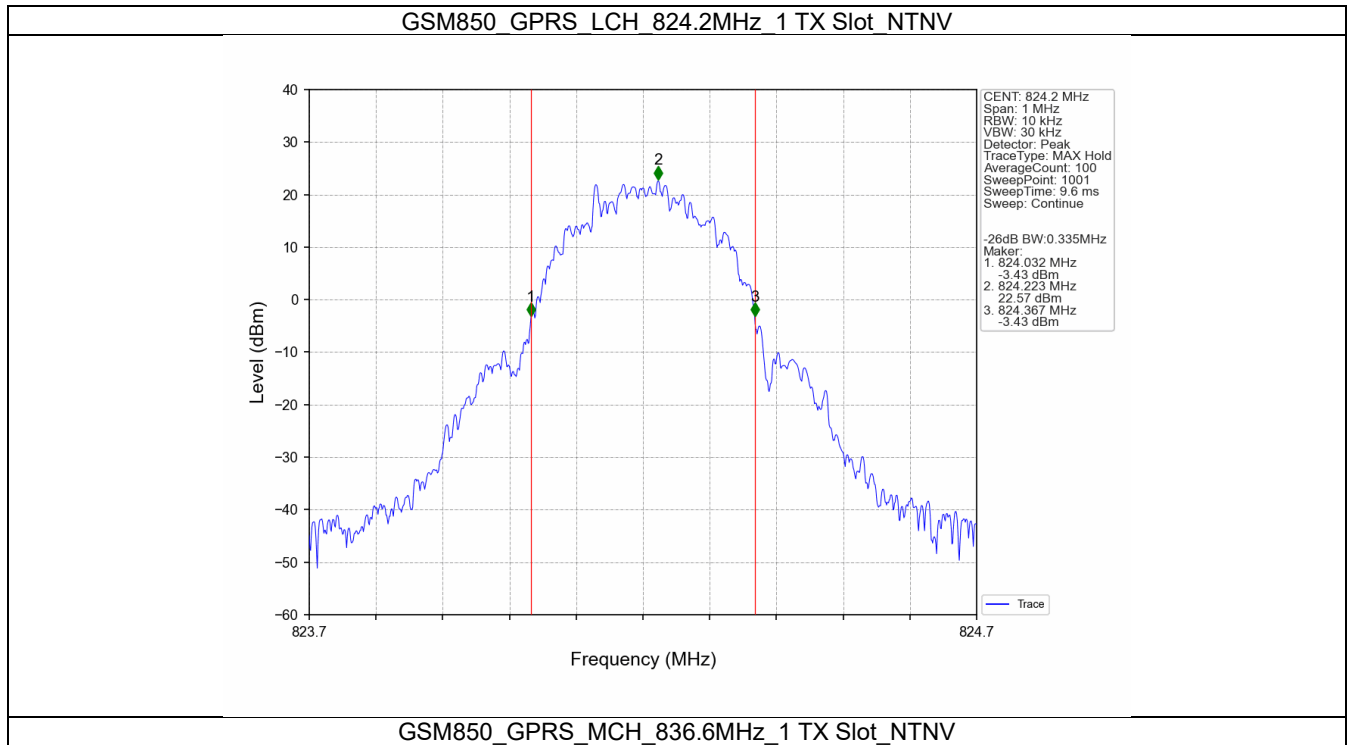
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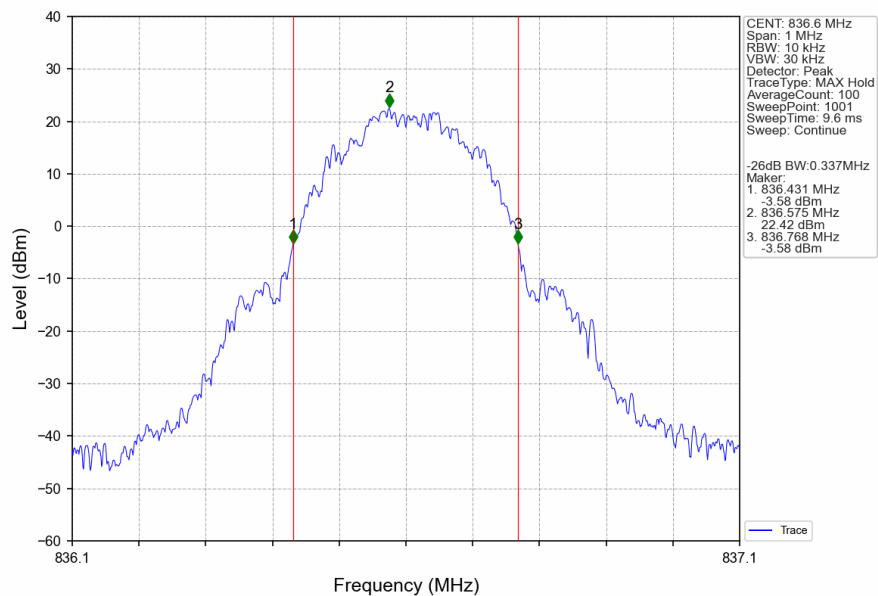


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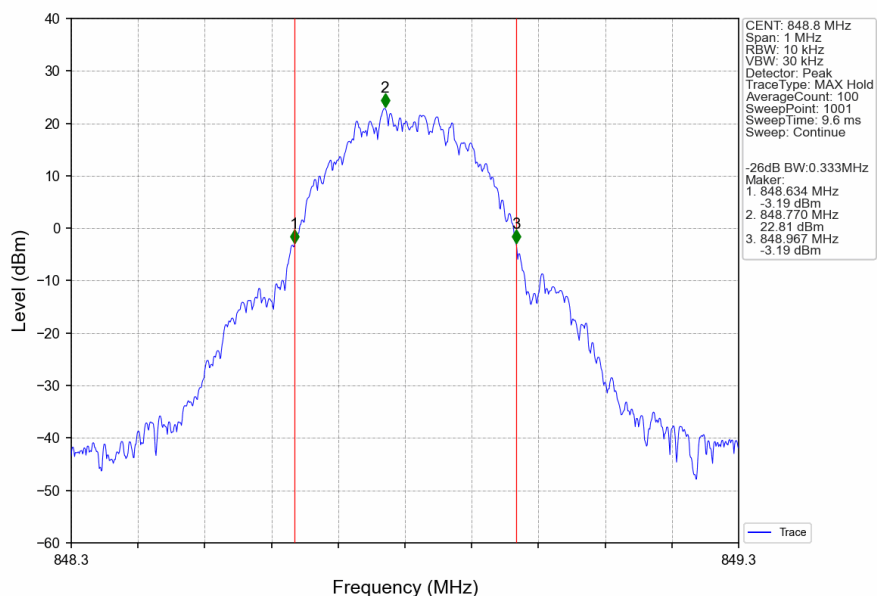


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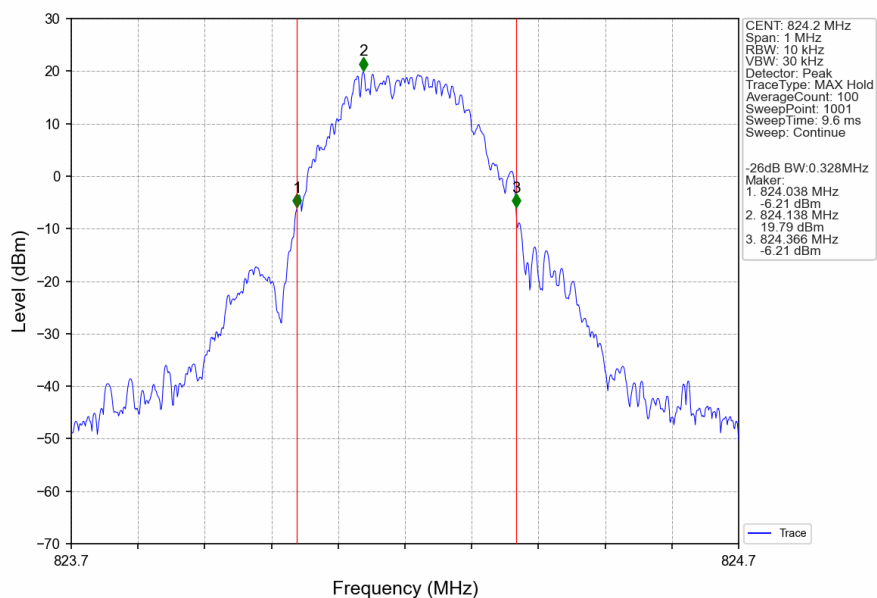




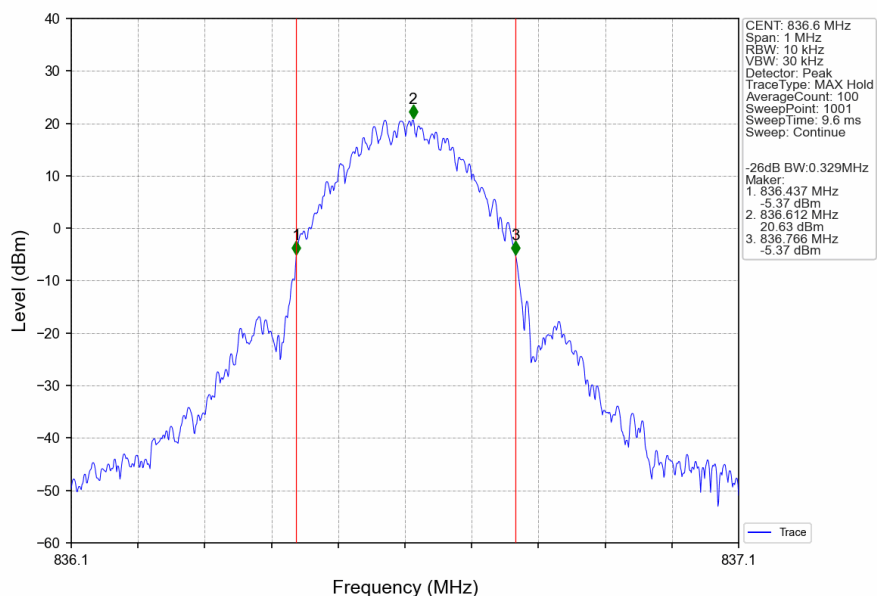
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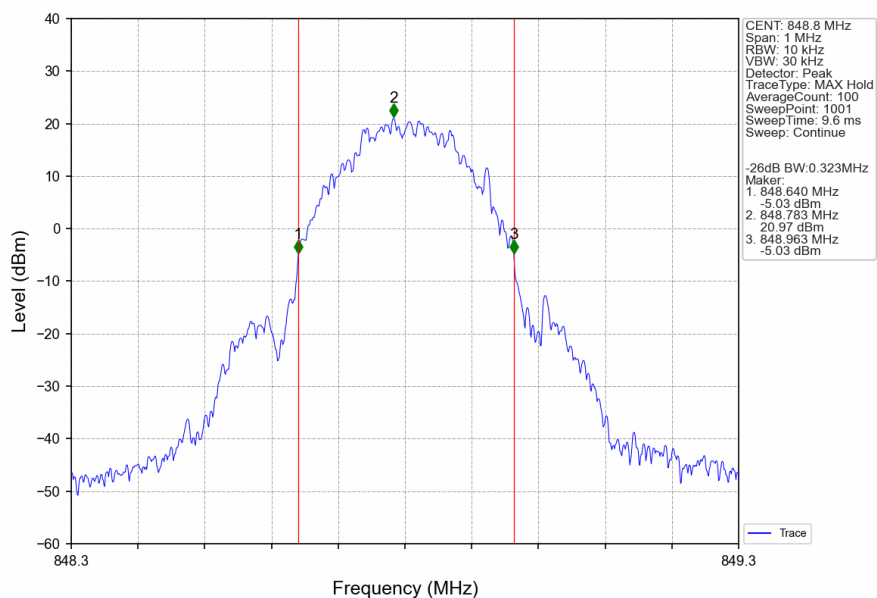
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GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV





4. Peak-Average Ratio

4.1 Test Result

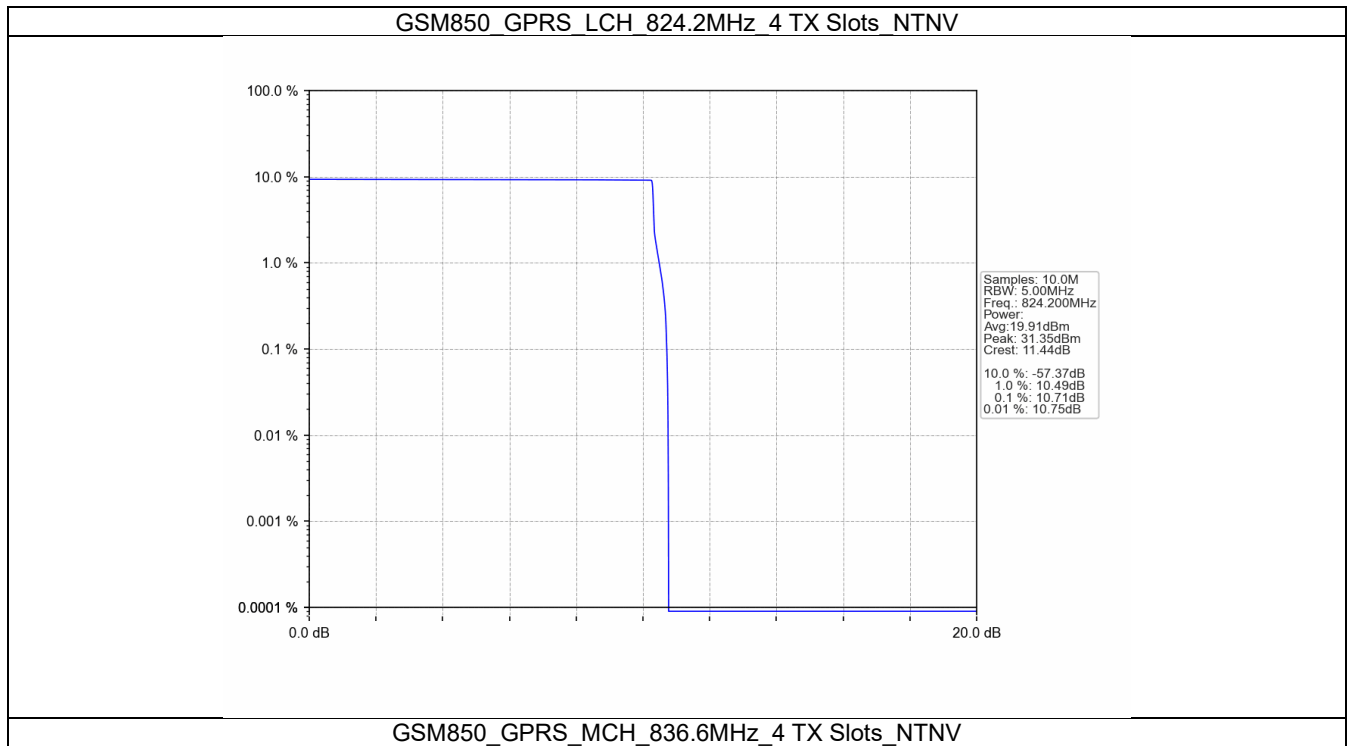
4.1.1 GSM850

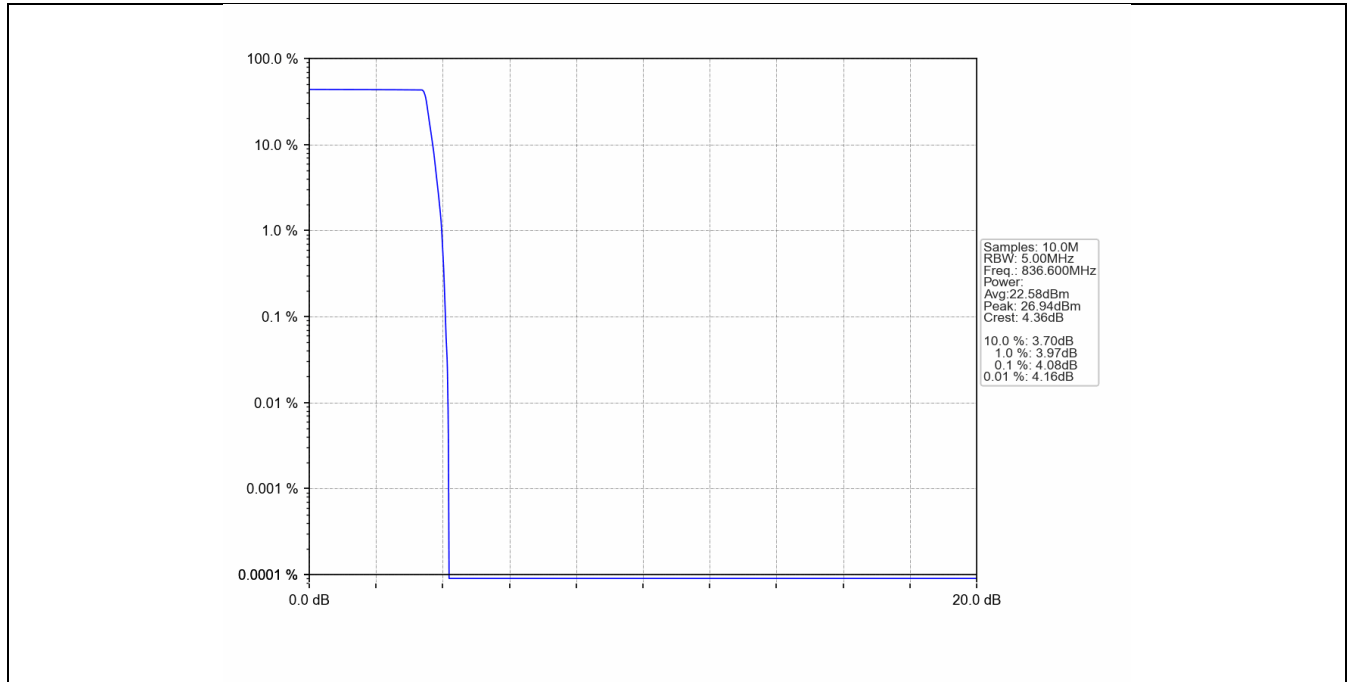
Band: GSM850						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	824.2	10.71	<=13	Pass
			836.6	4.08	<=13	Pass
			848.8	3.98	<=13	Pass
	EGPRS	4 TX Slots	824.2	9.68	<=13	Pass
			836.6	7.11	<=13	Pass
			848.8	6.75	<=13	Pass



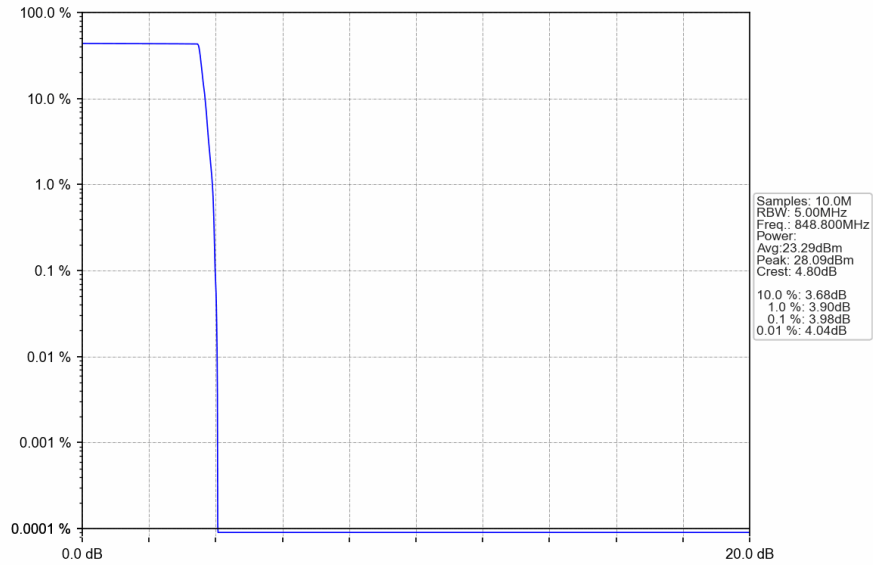
4.2 Test Graph

4.2.1 GSM850

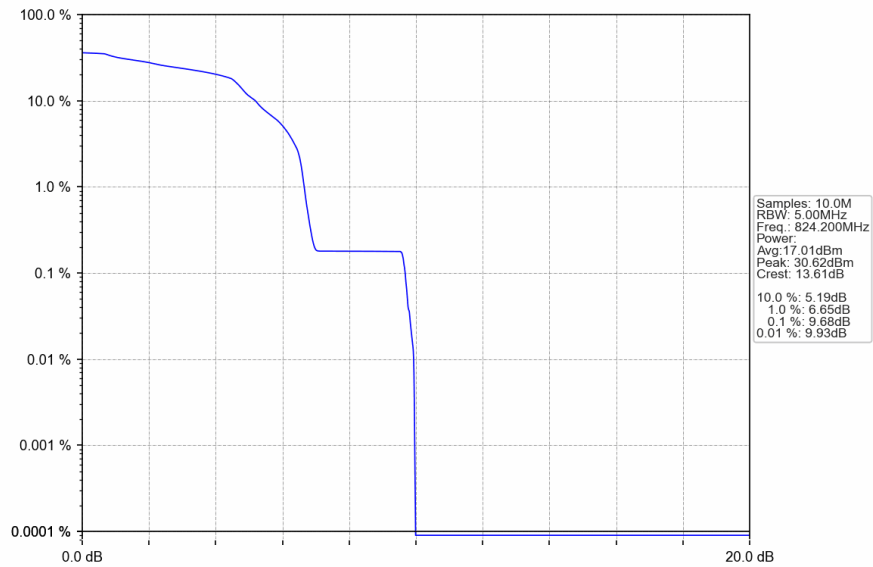




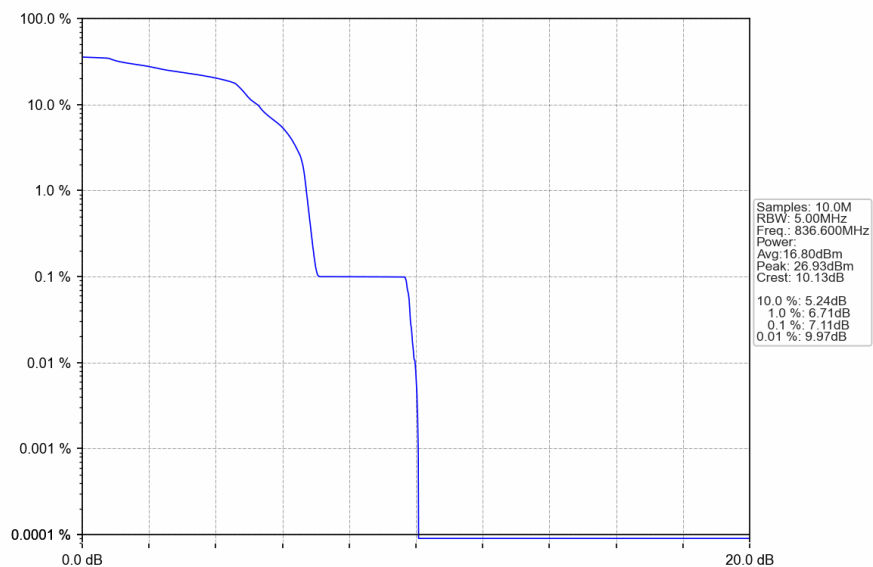
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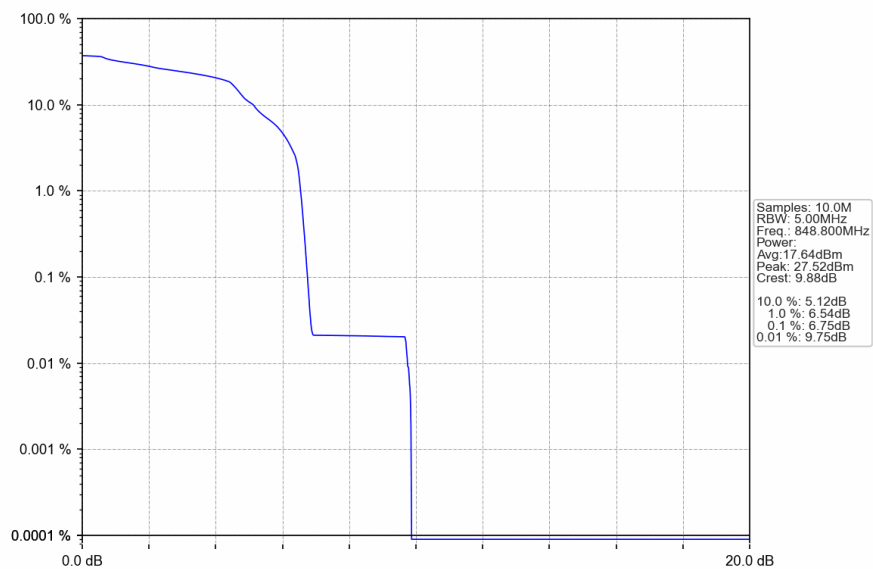
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GSM850_EGPRS_MCH_836.6MHz_4 TX Slots_NTNV



GSM850_EGPRS_HCH_848.8MHz_4 TX Slots_NTNV





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5. Spurious Emission

5.1 Test Result

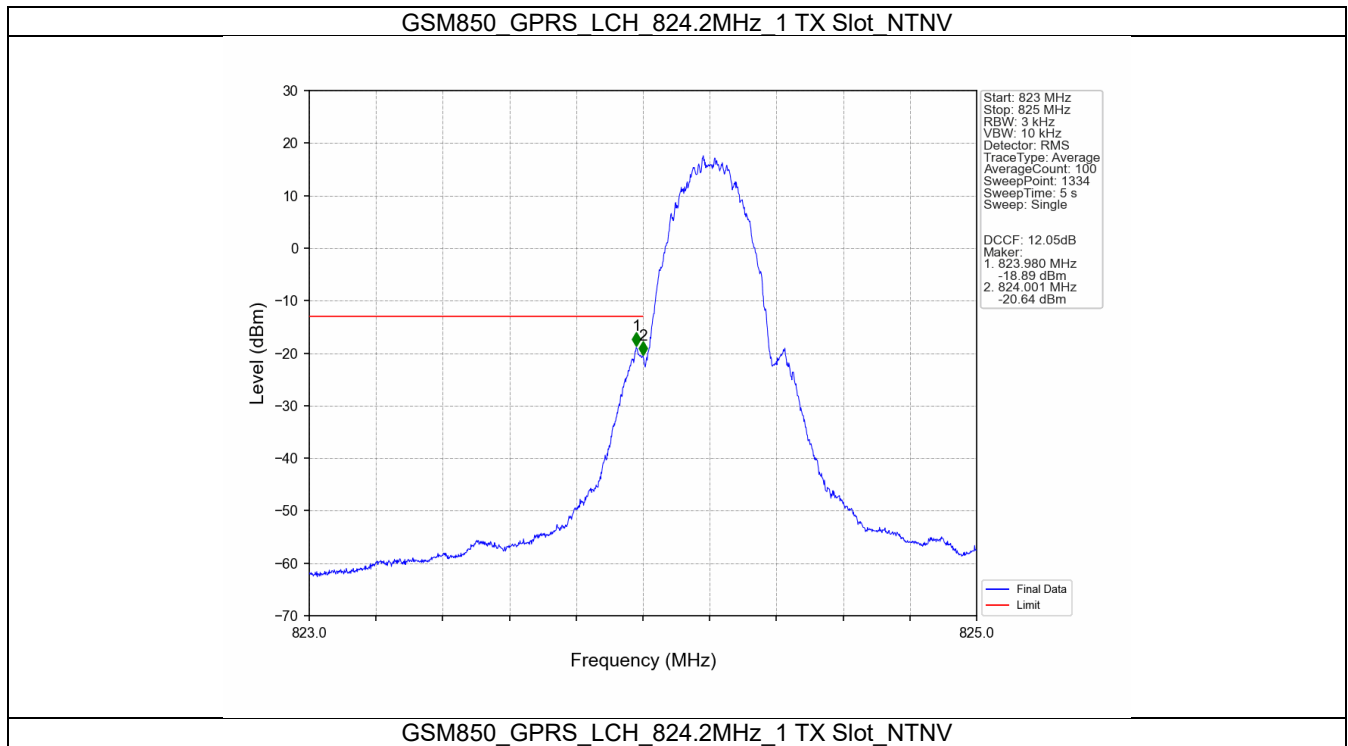
5.1.1 GSM850

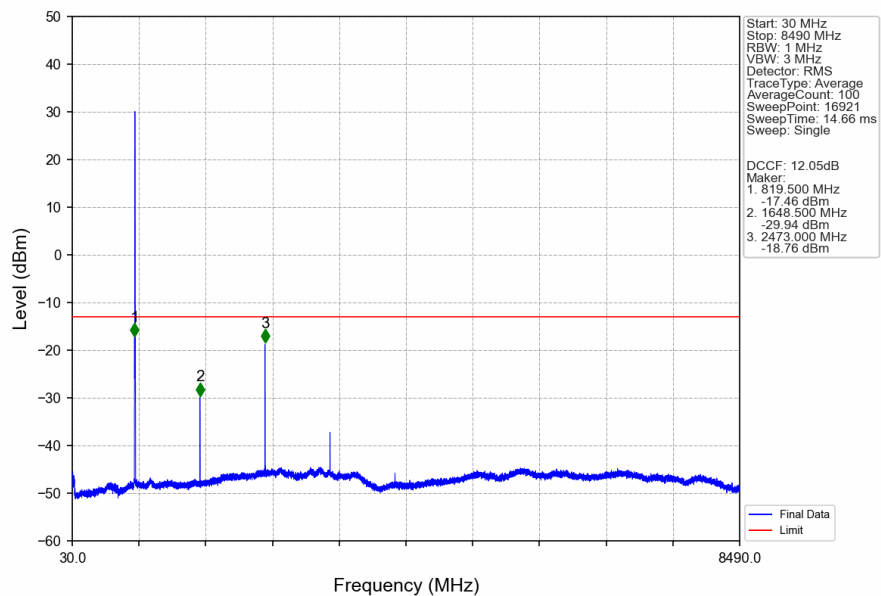
Band: GSM850						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	824.2	Refer To Test Graph	Pass	
			836.6	Refer To Test Graph	Pass	
			848.8	Refer To Test Graph	Pass	
	EGPRS	1 TX Slot	824.2	Refer To Test Graph	Pass	
			836.6	Refer To Test Graph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



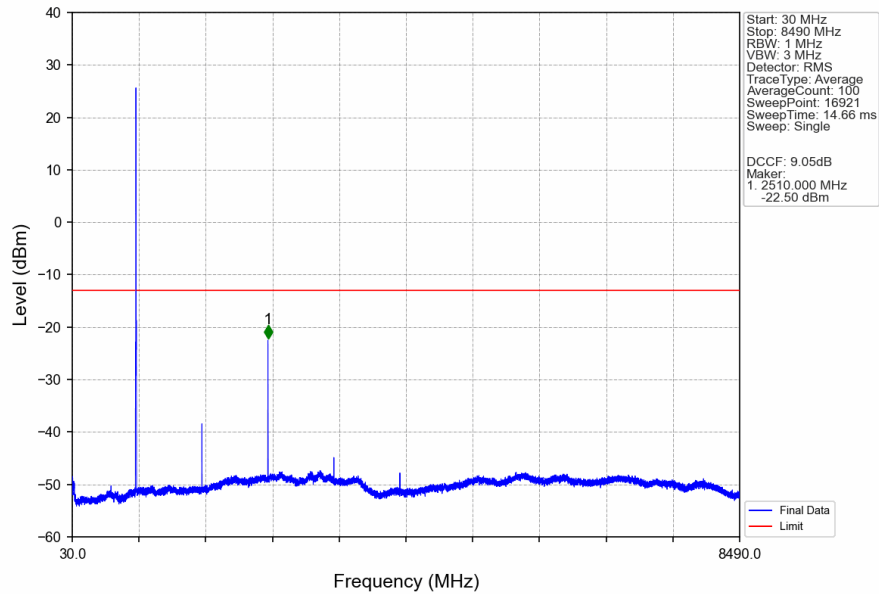
5.2 Test Graph

5.2.1 GSM850

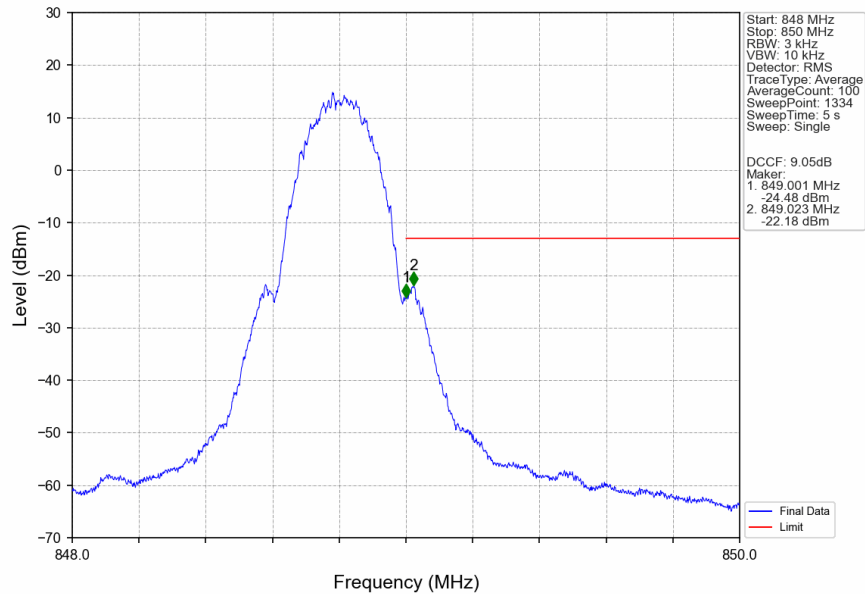




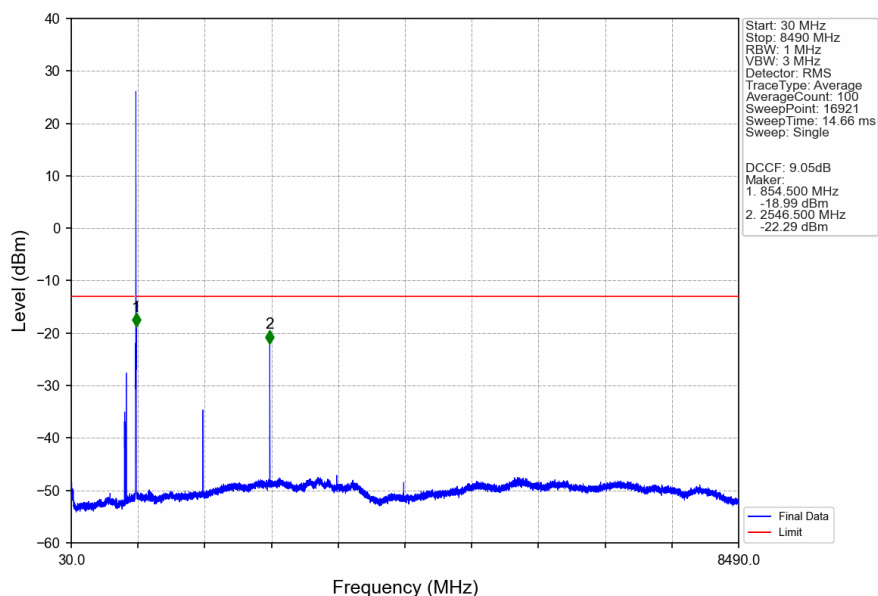
GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



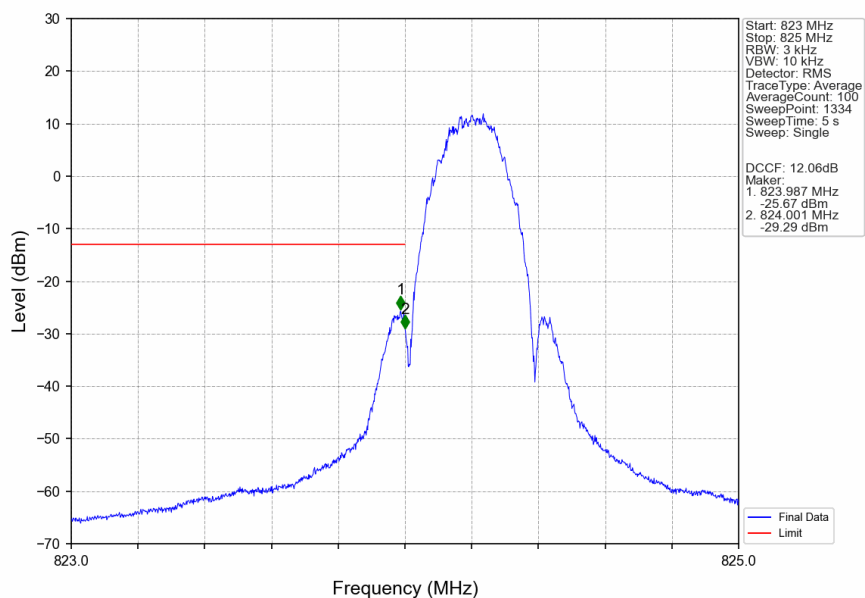
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



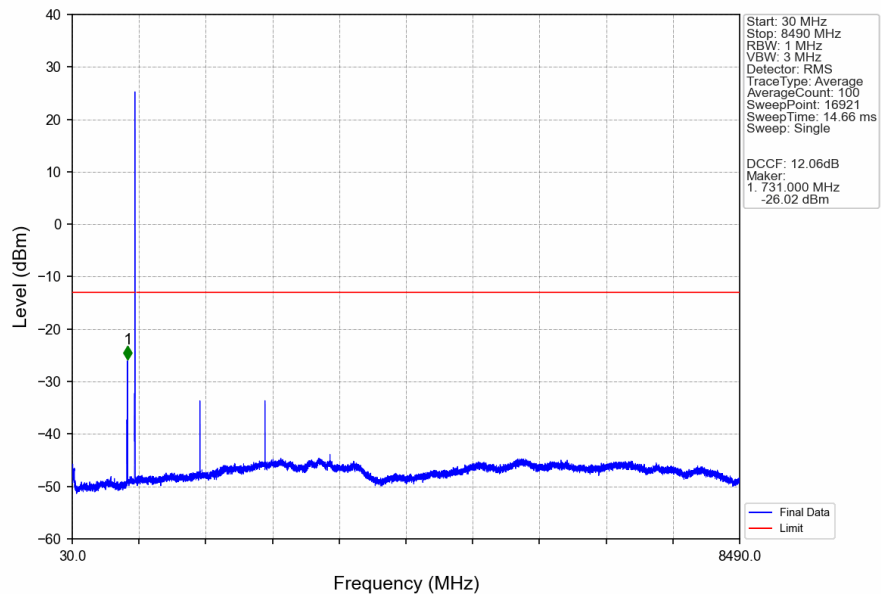
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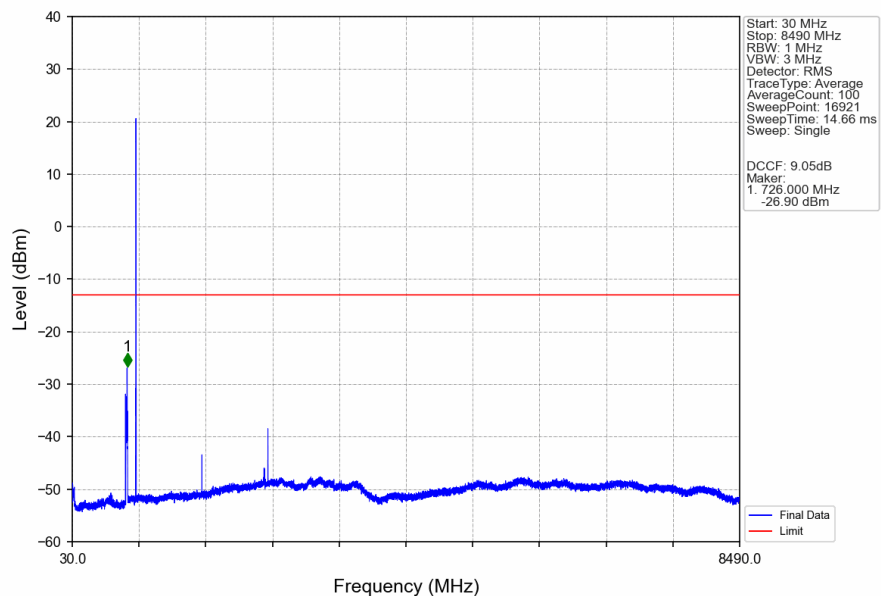
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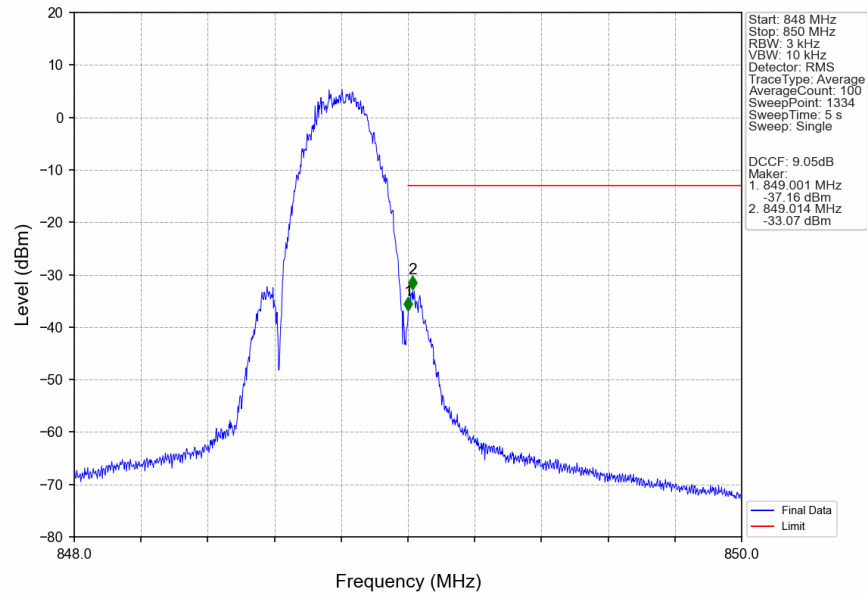
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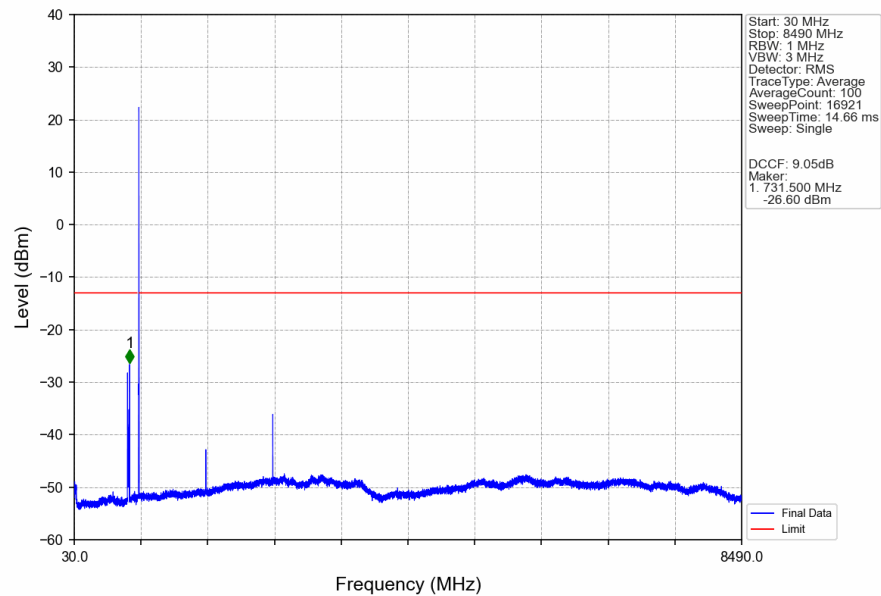
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GSM850_EGPRS_HCH_848.8MHz_1_TX_Slot_NTNV



GSM850_EGPRS_HCH_848.8MHz_1_TX_Slot_NTNV



- End of the Appendix -