

Appendix E for KSCR220400050306

1. Effective (Isotropic) Radiated Power Output Data

1.1 GSM850_ERP

1.1.1 Test Result

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	33.03	0.80	31.68	<=38.45	Pass
		2 TX Slots	824.2	32.07	0.80	30.72	<=38.45	Pass
		3 TX Slots	824.2	30.83	0.80	29.48	<=38.45	Pass
		4 TX Slots	824.2	28.36	0.80	27.01	<=38.45	Pass
		1 TX Slot	836.6	32.94	0.80	31.59	<=38.45	Pass
		2 TX Slots	836.6	32.00	0.80	30.65	<=38.45	Pass
		3 TX Slots	836.6	30.75	0.80	29.40	<=38.45	Pass
		4 TX Slots	836.6	28.40	0.80	27.05	<=38.45	Pass
		1 TX Slot	848.8	33.07	0.80	31.72	<=38.45	Pass
		2 TX Slots	848.8	32.16	0.80	30.81	<=38.45	Pass
		3 TX Slots	848.8	30.93	0.80	29.58	<=38.45	Pass
		4 TX Slots	848.8	28.52	0.80	27.17	<=38.45	Pass
	EGPRS	1 TX Slot	824.2	26.62	0.80	25.27	<=38.45	Pass
		2 TX Slots	824.2	26.58	0.80	25.23	<=38.45	Pass
		3 TX Slots	824.2	26.45	0.80	25.10	<=38.45	Pass
		4 TX Slots	824.2	26.77	0.80	25.42	<=38.45	Pass
		1 TX Slot	836.6	26.54	0.80	25.19	<=38.45	Pass
		2 TX Slots	836.6	26.55	0.80	25.20	<=38.45	Pass
		3 TX Slots	836.6	26.38	0.80	25.03	<=38.45	Pass
		4 TX Slots	836.6	26.22	0.80	24.87	<=38.45	Pass
		1 TX Slot	848.8	26.66	0.80	25.31	<=38.45	Pass
		2 TX Slots	848.8	26.81	0.80	25.46	<=38.45	Pass
		3 TX Slots	848.8	27.35	0.80	26.00	<=38.45	Pass
		4 TX Slots	848.8	26.46	0.80	25.11	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 GSM850

2.1.1 Test Result

Band: GSM850							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	



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GPRS	824.2	20	6.12	31.518	0.0382	-2.5 to 2.5	Pass
			7.2	30.308	0.0368	-2.5 to 2.5	Pass
			8.28	30.326	0.0368	-2.5 to 2.5	Pass
		-30	7.2	31.062	0.0377	-2.5 to 2.5	Pass
		-20	7.2	28.702	0.0348	-2.5 to 2.5	Pass
		-10	7.2	30.789	0.0374	-2.5 to 2.5	Pass
		0	7.2	32.581	0.0395	-2.5 to 2.5	Pass
		10	7.2	31.719	0.0385	-2.5 to 2.5	Pass
		30	7.2	32.877	0.0399	-2.5 to 2.5	Pass
		40	7.2	31.617	0.0384	-2.5 to 2.5	Pass
		50	7.2	30.781	0.0373	-2.5 to 2.5	Pass
	836.6	20	6.12	30.097	0.0360	-2.5 to 2.5	Pass
			7.2	32.864	0.0393	-2.5 to 2.5	Pass
			8.28	31.248	0.0374	-2.5 to 2.5	Pass
		-30	7.2	28.585	0.0342	-2.5 to 2.5	Pass
		-20	7.2	30.774	0.0368	-2.5 to 2.5	Pass
		-10	7.2	29.258	0.0350	-2.5 to 2.5	Pass
		0	7.2	29.974	0.0358	-2.5 to 2.5	Pass
		10	7.2	28.254	0.0338	-2.5 to 2.5	Pass
		30	7.2	28.289	0.0338	-2.5 to 2.5	Pass
		40	7.2	27.754	0.0332	-2.5 to 2.5	Pass
		50	7.2	27.037	0.0323	-2.5 to 2.5	Pass
	848.8	20	6.12	29.761	0.0351	-2.5 to 2.5	Pass
			7.2	29.477	0.0347	-2.5 to 2.5	Pass
			8.28	30.092	0.0355	-2.5 to 2.5	Pass
		-30	7.2	29.692	0.0350	-2.5 to 2.5	Pass
		-20	7.2	30.262	0.0357	-2.5 to 2.5	Pass
		-10	7.2	29.328	0.0346	-2.5 to 2.5	Pass
		0	7.2	30.203	0.0356	-2.5 to 2.5	Pass
		10	7.2	30.396	0.0358	-2.5 to 2.5	Pass
		30	7.2	29.730	0.0350	-2.5 to 2.5	Pass
		40	7.2	29.983	0.0353	-2.5 to 2.5	Pass
EGPRS	824.2	20	6.12	34.313	0.0416	-2.5 to 2.5	Pass
			7.2	33.360	0.0405	-2.5 to 2.5	Pass
			8.28	32.466	0.0394	-2.5 to 2.5	Pass
		-30	7.2	34.901	0.0423	-2.5 to 2.5	Pass
		-20	7.2	34.461	0.0418	-2.5 to 2.5	Pass
		-10	7.2	34.939	0.0424	-2.5 to 2.5	Pass
		0	7.2	33.934	0.0412	-2.5 to 2.5	Pass
		10	7.2	32.723	0.0397	-2.5 to 2.5	Pass
		30	7.2	32.949	0.0400	-2.5 to 2.5	Pass
		40	7.2	34.185	0.0415	-2.5 to 2.5	Pass
		50	7.2	34.084	0.0414	-2.5 to 2.5	Pass
	836.6	20	6.12	34.137	0.0408	-2.5 to 2.5	Pass
			7.2	31.990	0.0382	-2.5 to 2.5	Pass
			8.28	34.254	0.0409	-2.5 to 2.5	Pass
		-30	7.2	31.123	0.0372	-2.5 to 2.5	Pass
		-20	7.2	32.188	0.0385	-2.5 to 2.5	Pass
		-10	7.2	33.644	0.0402	-2.5 to 2.5	Pass
		0	7.2	32.027	0.0383	-2.5 to 2.5	Pass

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EMC Laboratory

		10	7.2	31.570	0.0377	-2.5 to 2.5	Pass
		30	7.2	30.777	0.0368	-2.5 to 2.5	Pass
		40	7.2	32.805	0.0392	-2.5 to 2.5	Pass
		50	7.2	29.732	0.0355	-2.5 to 2.5	Pass
	848.8	20	6.12	32.641	0.0385	-2.5 to 2.5	Pass
			7.2	30.079	0.0354	-2.5 to 2.5	Pass
			8.28	29.921	0.0353	-2.5 to 2.5	Pass
		-30	7.2	30.967	0.0365	-2.5 to 2.5	Pass
		-20	7.2	31.106	0.0366	-2.5 to 2.5	Pass
		-10	7.2	31.874	0.0376	-2.5 to 2.5	Pass
		0	7.2	29.938	0.0353	-2.5 to 2.5	Pass
		10	7.2	31.793	0.0375	-2.5 to 2.5	Pass
		30	7.2	32.207	0.0379	-2.5 to 2.5	Pass
		40	7.2	32.168	0.0379	-2.5 to 2.5	Pass
		50	7.2	29.430	0.0347	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 GSM850

3.1.1 Test Result

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



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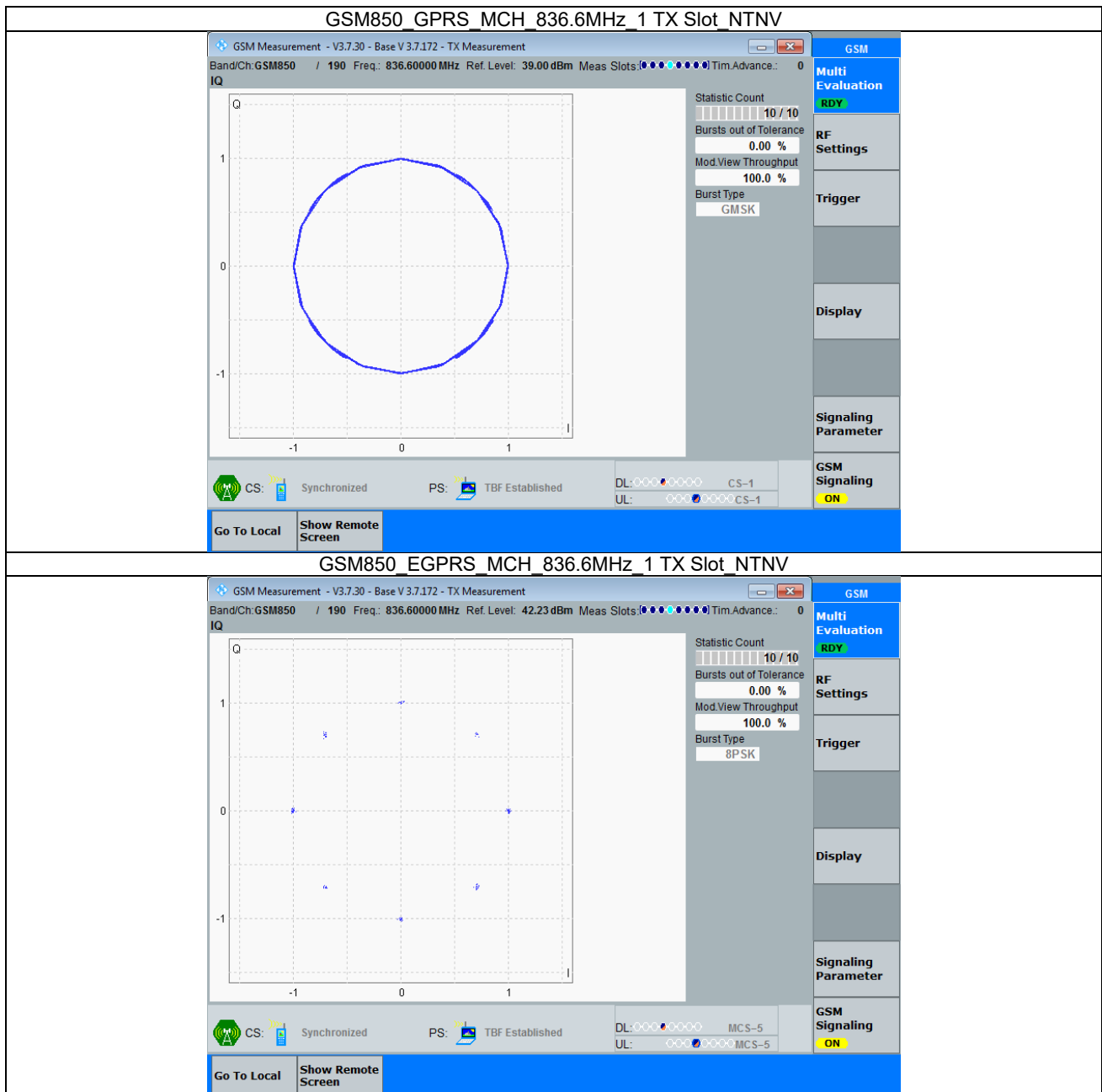
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3.1.2 Test Graph



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4. 99% & 26dB Bandwidth

4.1 GSM850_OBW

4.1.1 Test Result

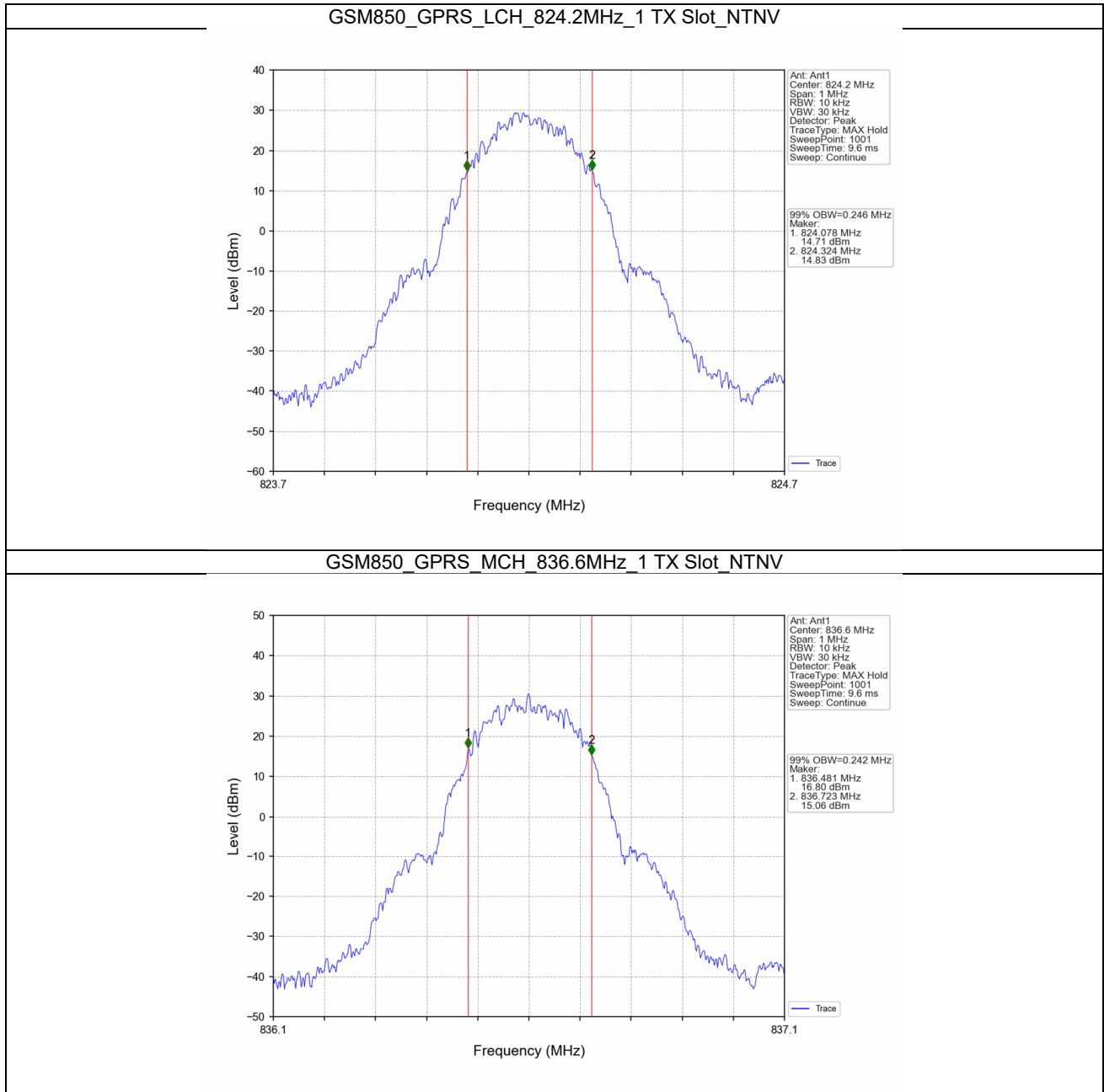
Band: GSM850					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GPRS	1 TX Slot	824.2	0.246	Pass
			836.6	0.242	Pass
			848.8	0.242	Pass
	EGPRS	1 TX Slot	824.2	0.238	Pass
			836.6	0.246	Pass
			848.8	0.231	Pass



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4.1.2 Test Graph



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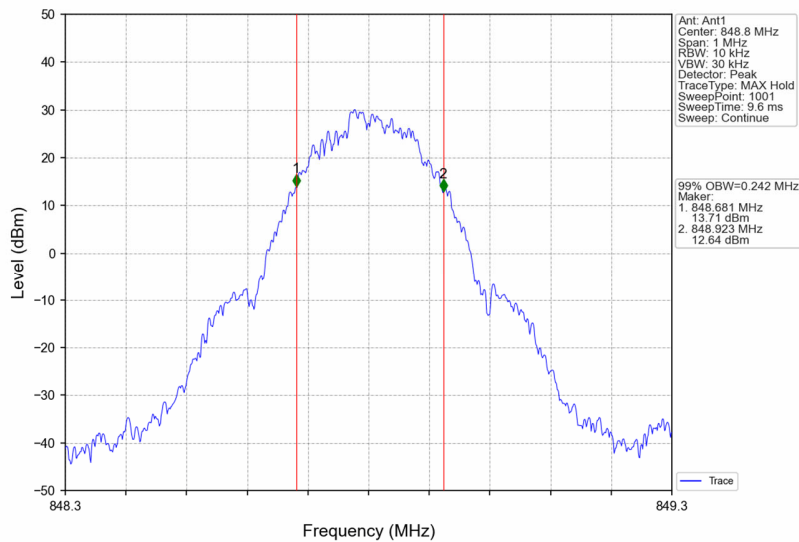
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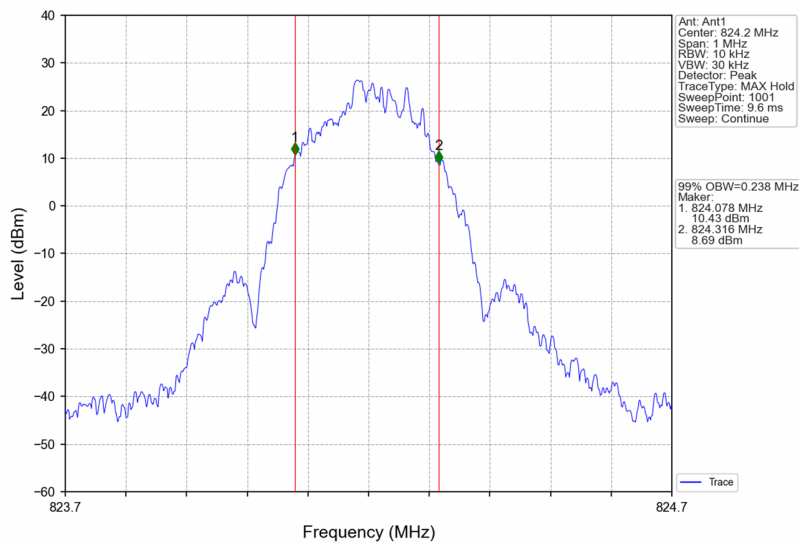
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GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



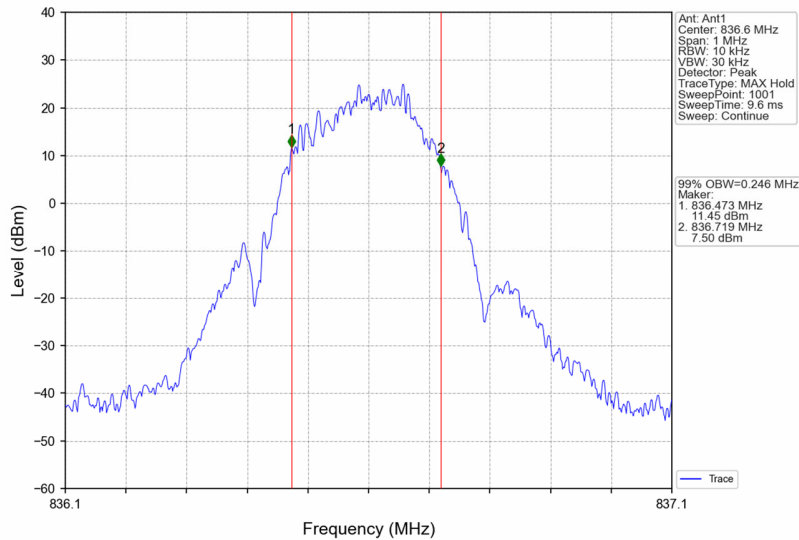
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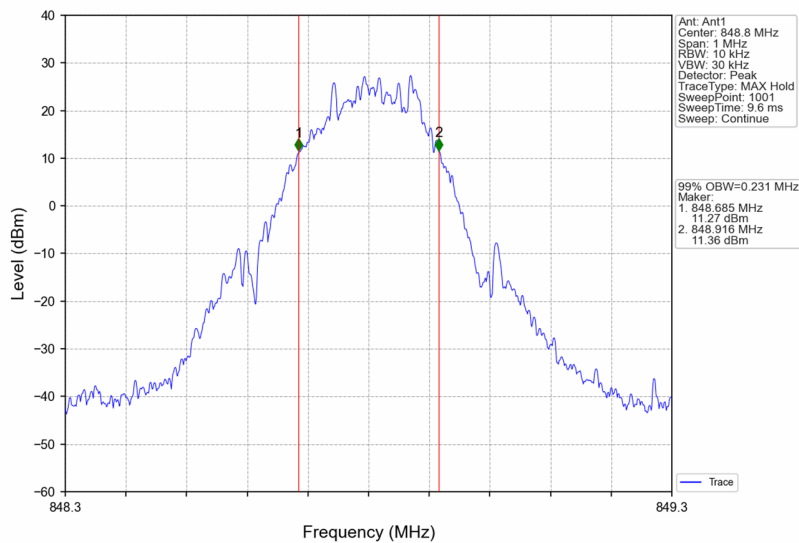
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GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV



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4.2 GSM850_XDB

4.2.1 Test Result

Band: GSM850					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GPRS	1 TX Slot	824.2	0.323	Pass
			836.6	0.315	Pass
			848.8	0.316	Pass
	EGPRS	1 TX Slot	824.2	0.295	Pass
			836.6	0.302	Pass
			848.8	0.292	Pass



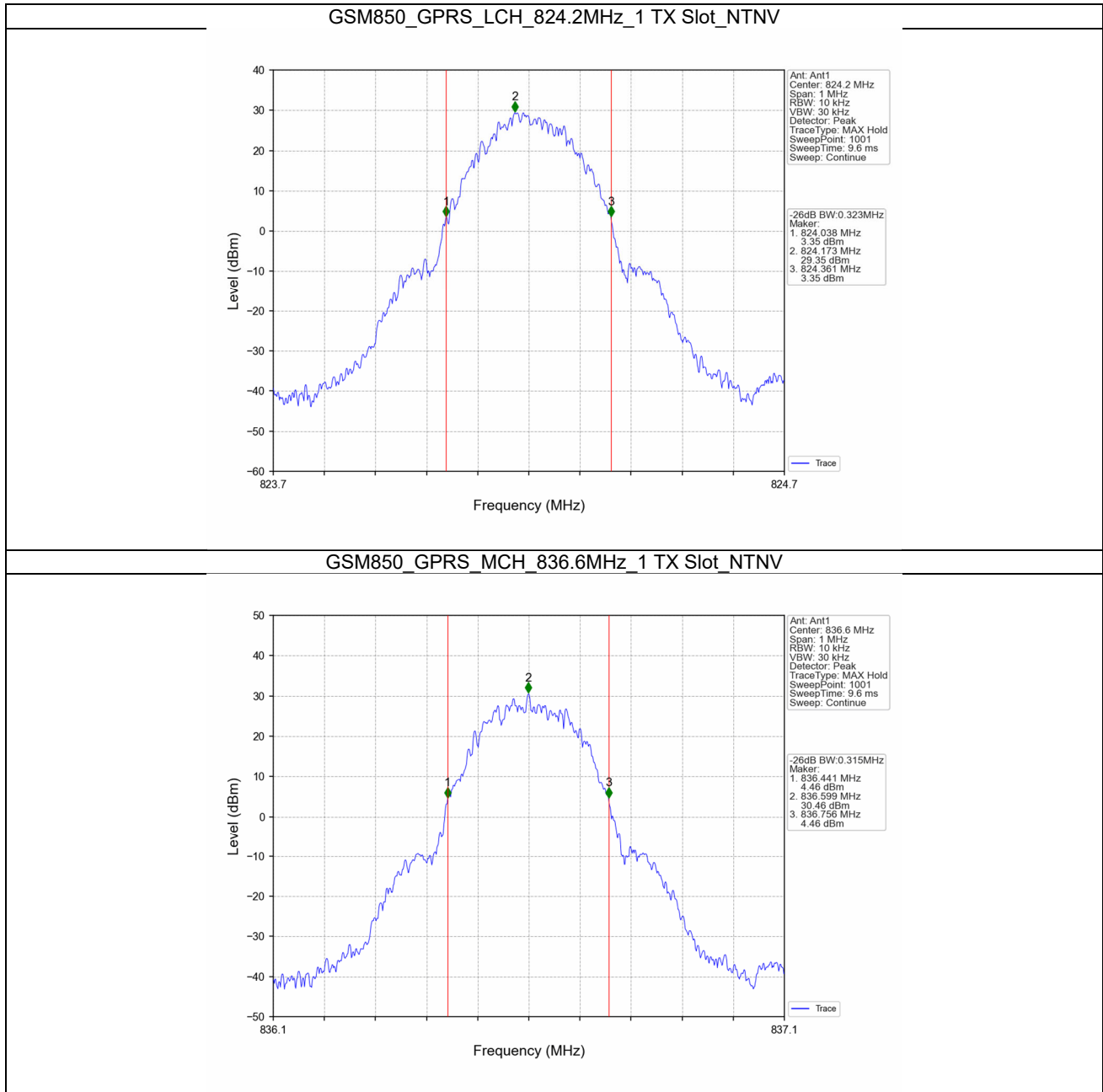
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4.2.2 Test Graph



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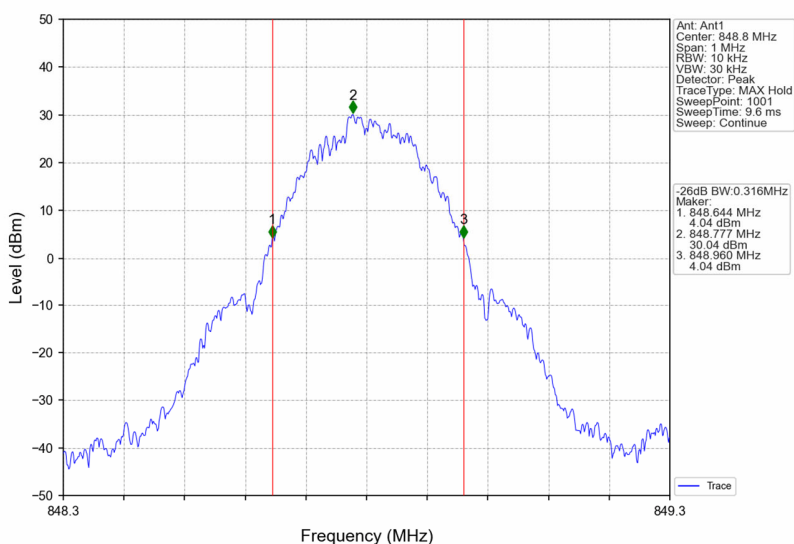
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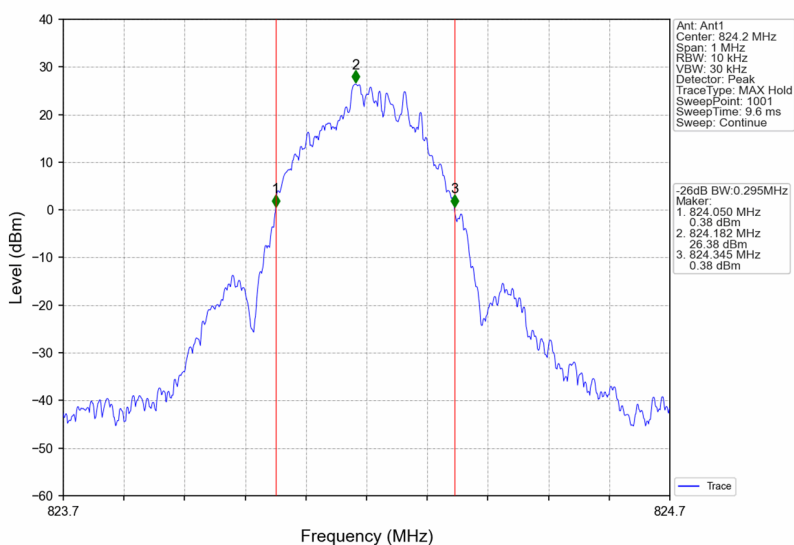
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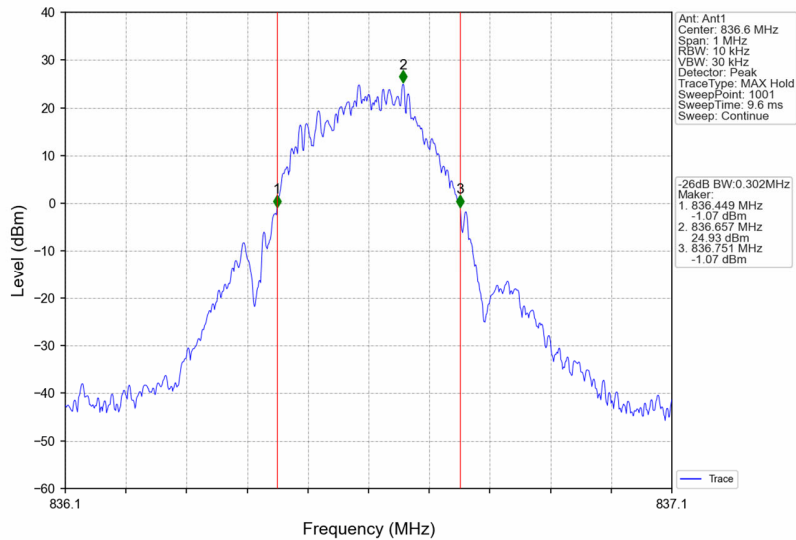
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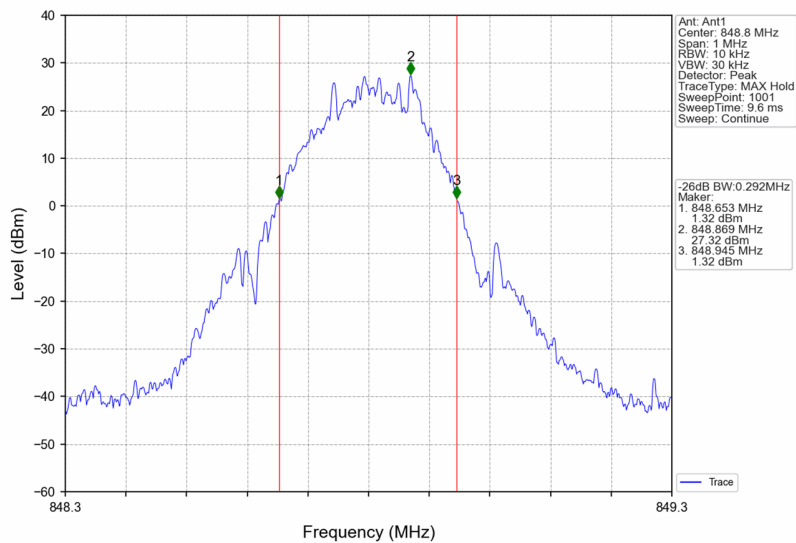
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5. Peak-Average Ratio

5.1 GSM850

5.1.1 Test Result

Band: GSM850						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	824.2	9.67	<=13	Pass
			836.6	9.69	<=13	Pass
			848.8	3.73	<=13	Pass
	EGPRS	4 TX Slots	824.2	8.38	<=13	Pass
			836.6	6.68	<=13	Pass
			848.8	6.69	<=13	Pass



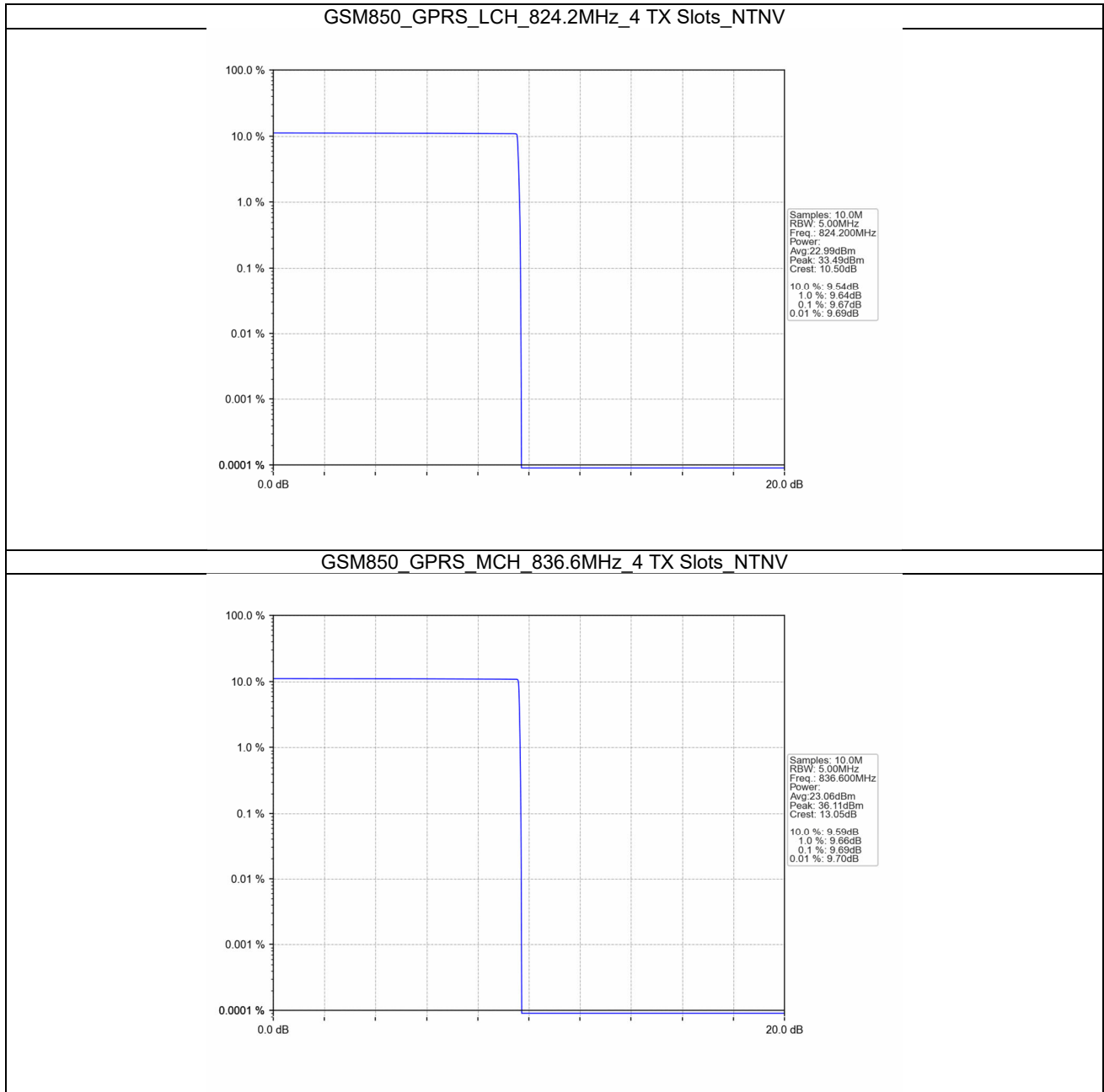
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5.1.2 Test Graph



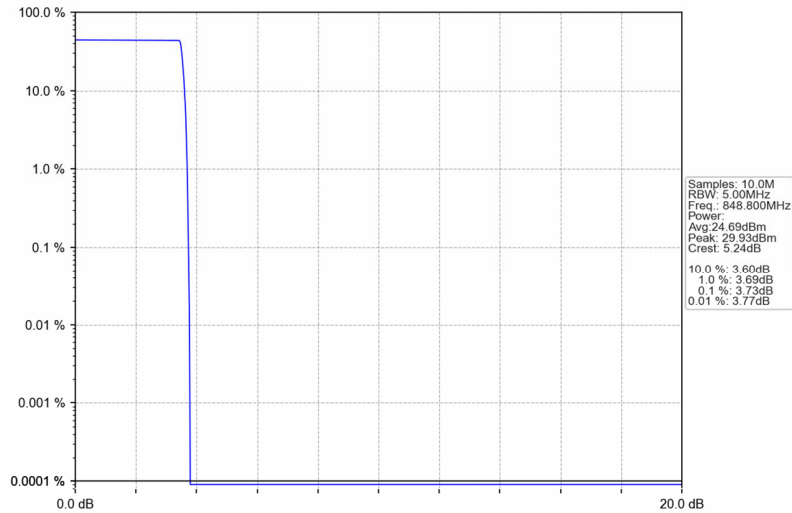
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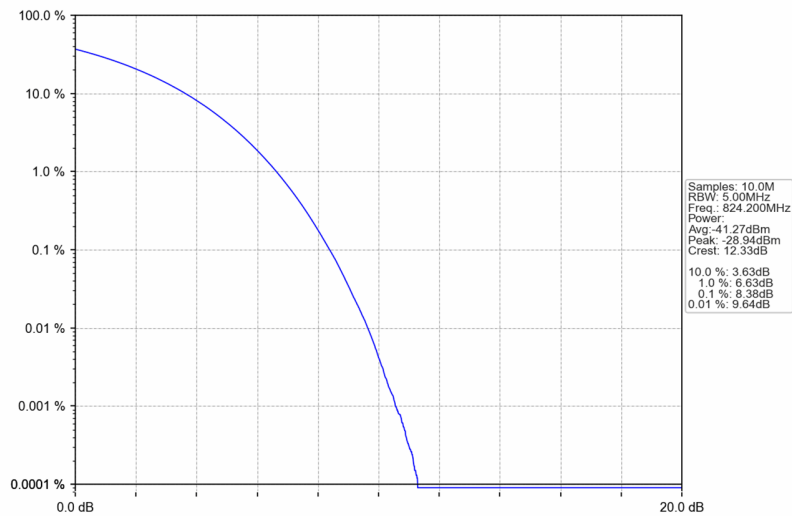
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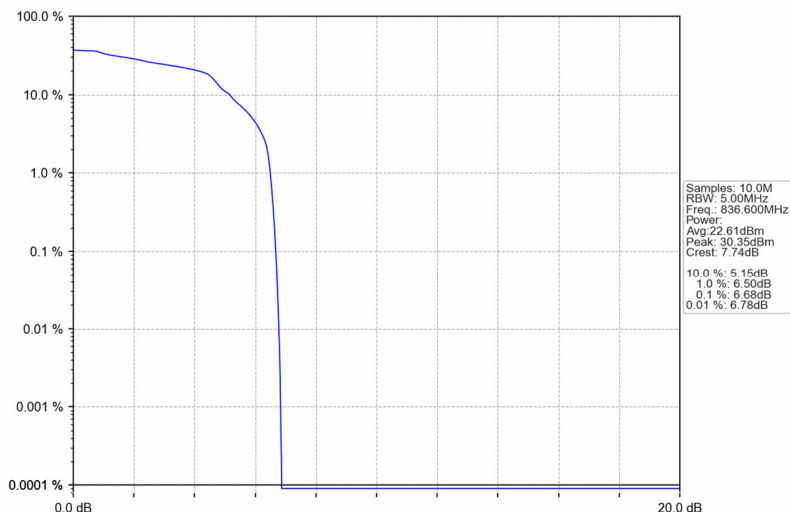
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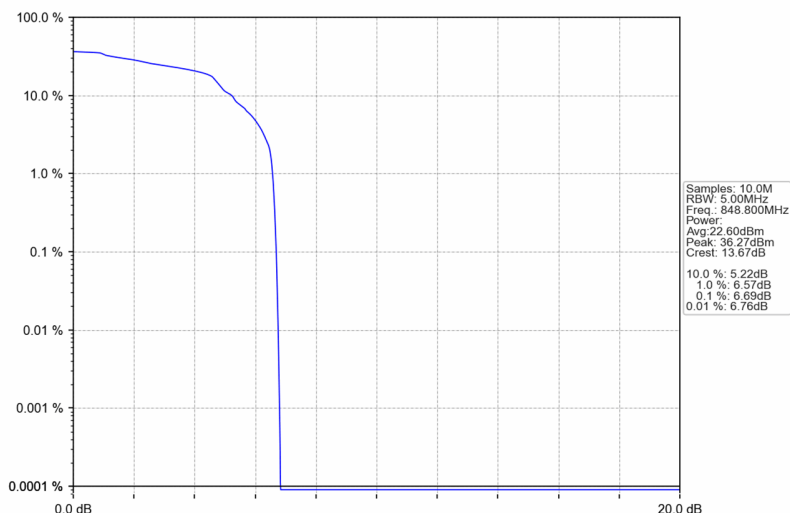
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6. Spurious Emission

6.1 GSM850

6.1.1 Test Result

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



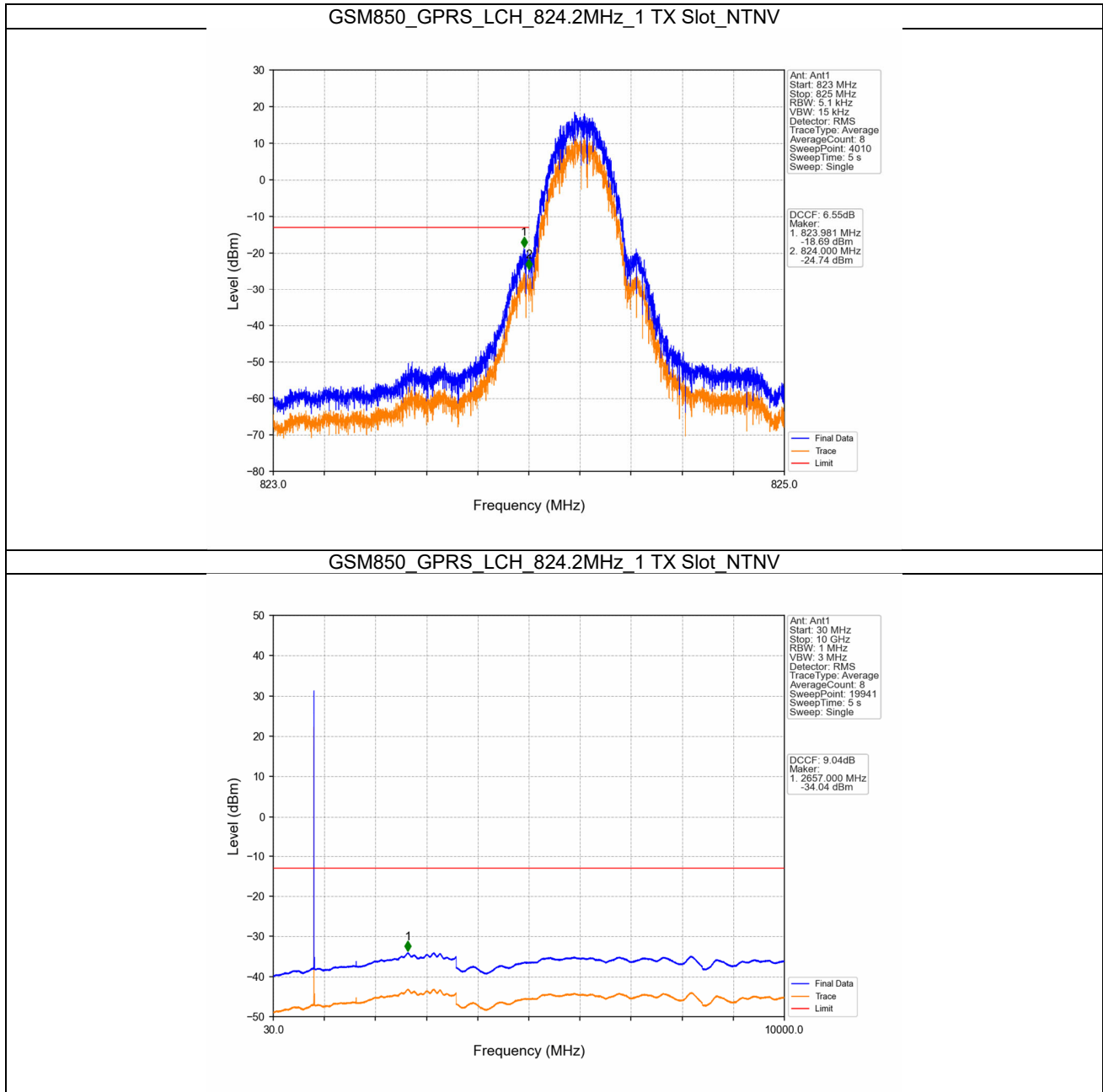
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6.1.2 Test Graph



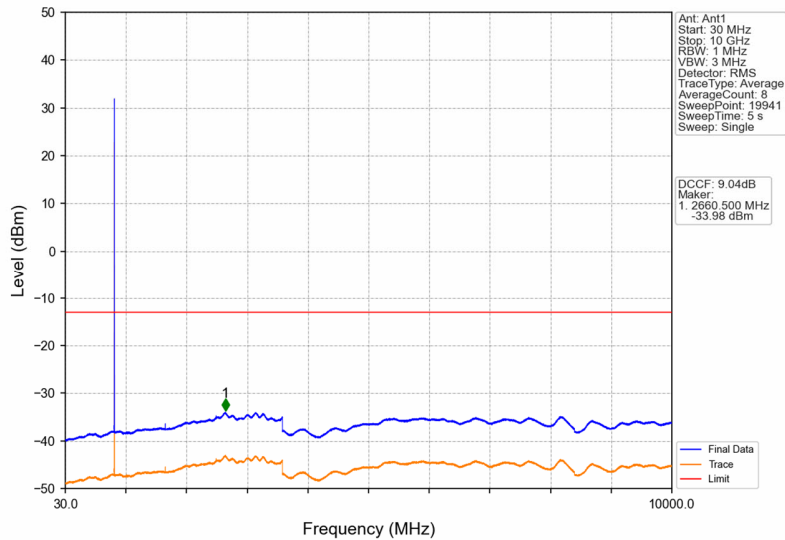
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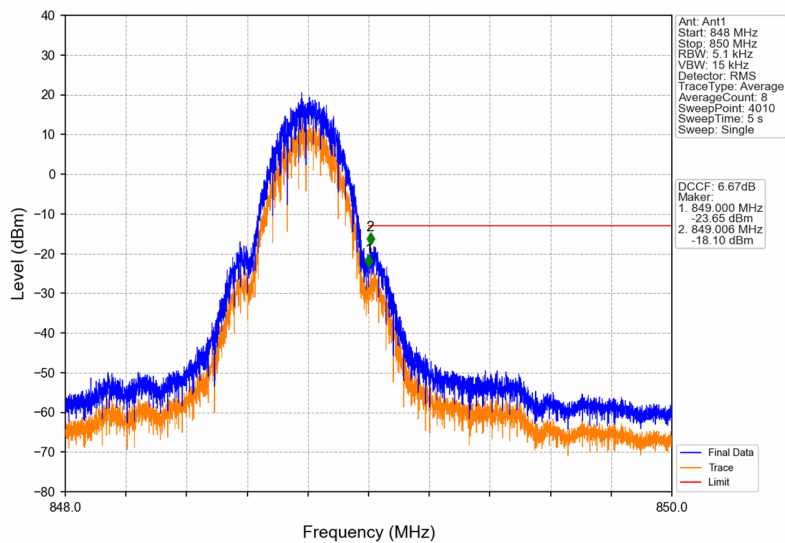
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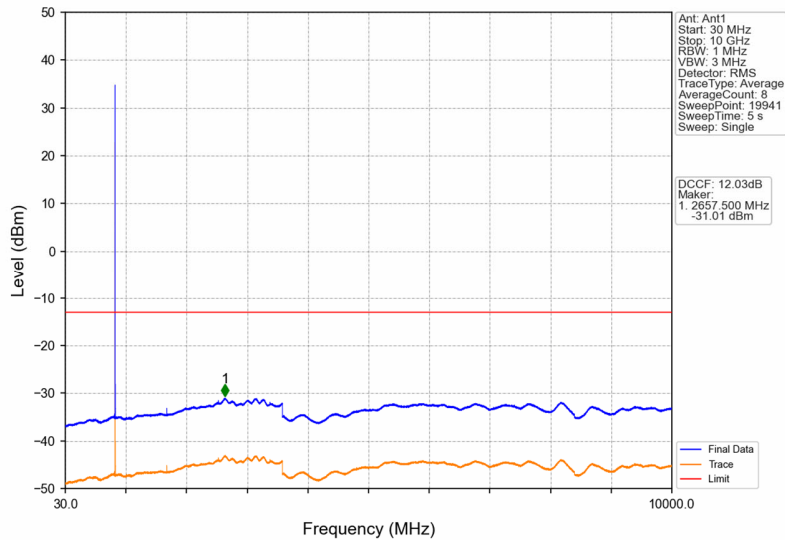
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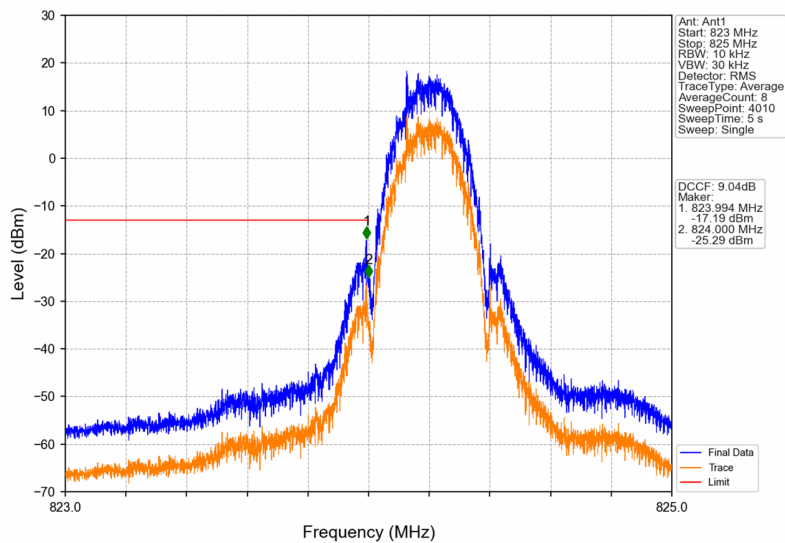
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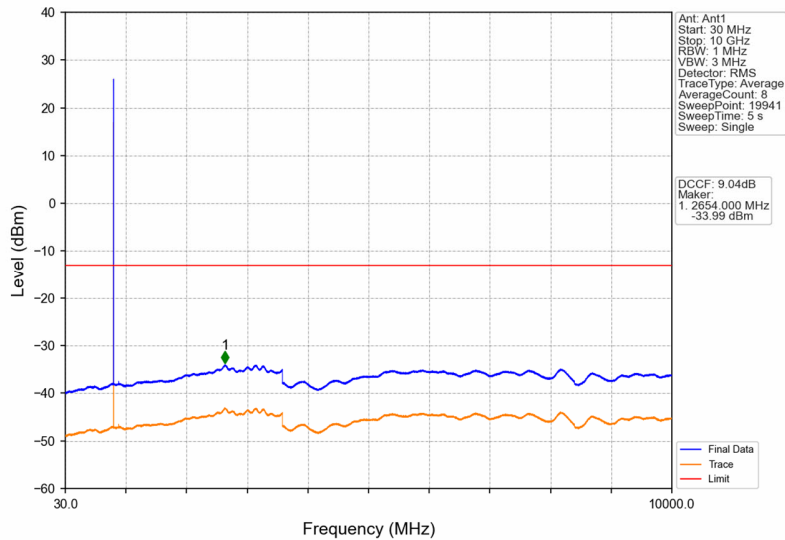
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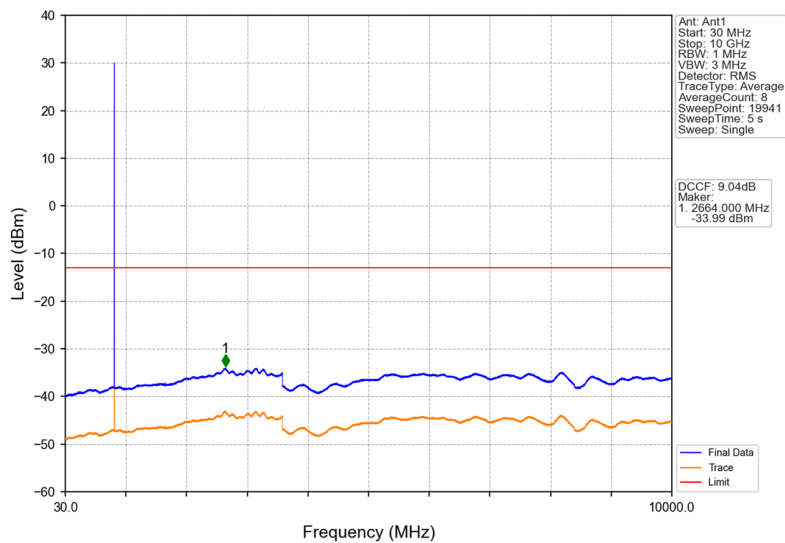
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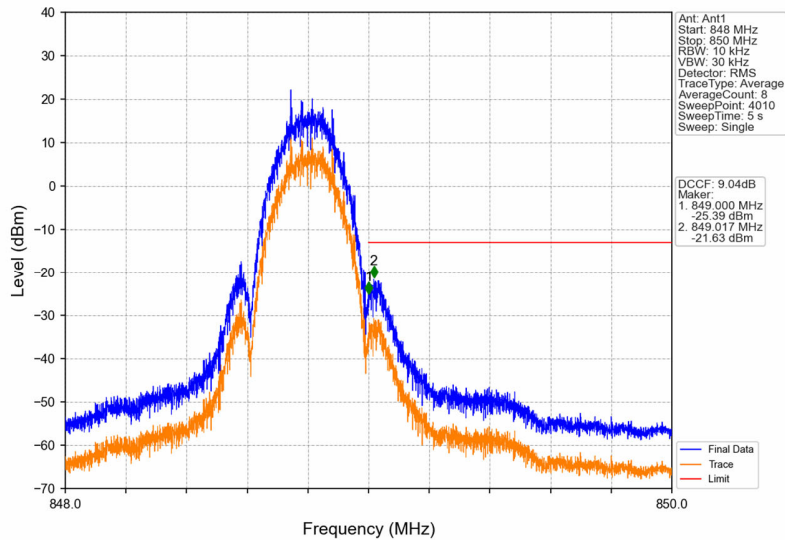
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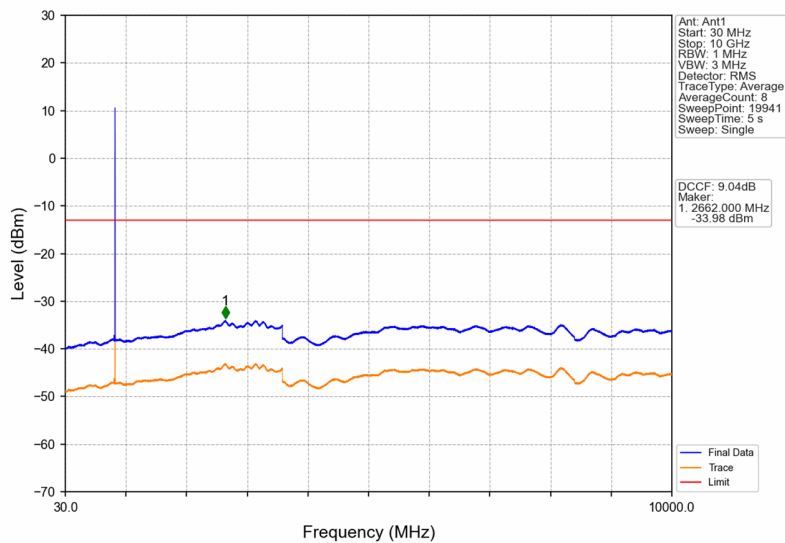
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