

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	27.63	3.50	28.98	<=38.45	Pass
			836.6	27.76	3.50	29.11	<=38.45	Pass
			848.8	27.96	3.50	29.31	<=38.45	Pass
	EGPRS	1 TX Slot	824.2	25.05	3.50	26.40	<=38.45	Pass
			836.6	24.82	3.50	26.17	<=38.45	Pass
			848.8	24.94	3.50	26.29	<=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	3.27	16.595	0.0201	-2.5 to 2.5	Pass
			3.85	17.628	0.0214	-2.5 to 2.5	Pass
			4.43	12.721	0.0154	-2.5 to 2.5	Pass
		-30	3.85	14.141	0.0172	-2.5 to 2.5	Pass
		-20	3.85	13.495	0.0164	-2.5 to 2.5	Pass
		-10	3.85	14.464	0.0175	-2.5 to 2.5	Pass
		0	3.85	13.366	0.0162	-2.5 to 2.5	Pass
		10	3.85	14.529	0.0176	-2.5 to 2.5	Pass
		30	3.85	15.562	0.0189	-2.5 to 2.5	Pass
		40	3.85	16.143	0.0196	-2.5 to 2.5	Pass
		50	3.85	16.692	0.0203	-2.5 to 2.5	Pass
	836.6	20	3.27	17.338	0.0207	-2.5 to 2.5	Pass
			3.85	16.111	0.0193	-2.5 to 2.5	Pass
			4.43	17.015	0.0203	-2.5 to 2.5	Pass
		-30	3.85	16.078	0.0192	-2.5 to 2.5	Pass
		-20	3.85	17.467	0.0209	-2.5 to 2.5	Pass
		-10	3.85	16.627	0.0199	-2.5 to 2.5	Pass
		0	3.85	17.370	0.0208	-2.5 to 2.5	Pass
		10	3.85	16.692	0.0200	-2.5 to 2.5	Pass
		30	3.85	16.046	0.0192	-2.5 to 2.5	Pass
		40	3.85	18.403	0.0220	-2.5 to 2.5	Pass
		50	3.85	16.434	0.0196	-2.5 to 2.5	Pass
	848.8	20	3.27	19.598	0.0231	-2.5 to 2.5	Pass
			3.85	18.984	0.0224	-2.5 to 2.5	Pass
			4.43	20.050	0.0236	-2.5 to 2.5	Pass
		-30	3.85	18.500	0.0218	-2.5 to 2.5	Pass
		-20	3.85	18.500	0.0218	-2.5 to 2.5	Pass

EGPRS		-10	3.85	19.533	0.0230	-2.5 to 2.5	Pass
		0	3.85	21.793	0.0257	-2.5 to 2.5	Pass
		10	3.85	19.953	0.0235	-2.5 to 2.5	Pass
		30	3.85	18.920	0.0223	-2.5 to 2.5	Pass
		40	3.85	19.468	0.0229	-2.5 to 2.5	Pass
		50	3.85	20.502	0.0242	-2.5 to 2.5	Pass
	824.2	20	3.27	20.050	0.0243	-2.5 to 2.5	Pass
			3.85	14.593	0.0177	-2.5 to 2.5	Pass
			4.43	20.954	0.0254	-2.5 to 2.5	Pass
		-30	3.85	18.338	0.0222	-2.5 to 2.5	Pass
		-20	3.85	22.019	0.0267	-2.5 to 2.5	Pass
		-10	3.85	23.569	0.0286	-2.5 to 2.5	Pass
		0	3.85	23.730	0.0288	-2.5 to 2.5	Pass
		10	3.85	21.438	0.0260	-2.5 to 2.5	Pass
		30	3.85	22.794	0.0277	-2.5 to 2.5	Pass
		40	3.85	19.533	0.0237	-2.5 to 2.5	Pass
		50	3.85	23.149	0.0281	-2.5 to 2.5	Pass
	836.6	20	3.27	20.405	0.0244	-2.5 to 2.5	Pass
			3.85	21.309	0.0255	-2.5 to 2.5	Pass
			4.43	22.471	0.0269	-2.5 to 2.5	Pass
		-30	3.85	20.017	0.0239	-2.5 to 2.5	Pass
		-20	3.85	21.632	0.0259	-2.5 to 2.5	Pass
		-10	3.85	22.051	0.0264	-2.5 to 2.5	Pass
		0	3.85	23.730	0.0284	-2.5 to 2.5	Pass
		10	3.85	22.568	0.0270	-2.5 to 2.5	Pass
		30	3.85	21.115	0.0252	-2.5 to 2.5	Pass
		40	3.85	19.727	0.0236	-2.5 to 2.5	Pass
		50	3.85	21.083	0.0252	-2.5 to 2.5	Pass
	848.8	20	3.27	21.018	0.0248	-2.5 to 2.5	Pass
			3.85	21.632	0.0255	-2.5 to 2.5	Pass
			4.43	20.695	0.0244	-2.5 to 2.5	Pass
		-30	3.85	20.760	0.0245	-2.5 to 2.5	Pass
		-20	3.85	21.761	0.0256	-2.5 to 2.5	Pass
		-10	3.85	20.921	0.0246	-2.5 to 2.5	Pass
		0	3.85	22.406	0.0264	-2.5 to 2.5	Pass
		10	3.85	20.824	0.0245	-2.5 to 2.5	Pass
		30	3.85	20.792	0.0245	-2.5 to 2.5	Pass
		40	3.85	20.243	0.0238	-2.5 to 2.5	Pass
		50	3.85	20.792	0.0245	-2.5 to 2.5	Pass

3. Modulation Characteristics

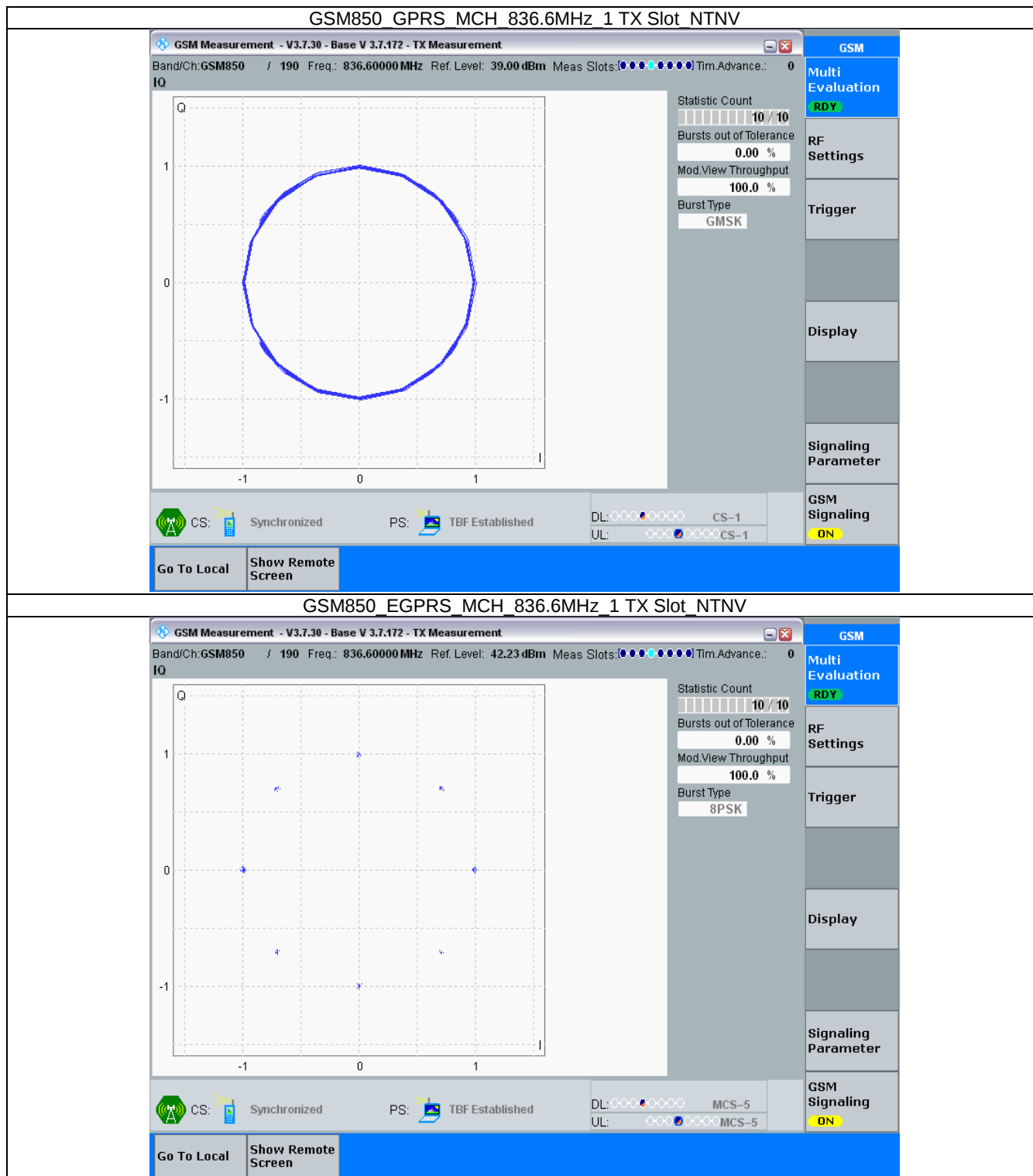
3.1 Test Result

3.1.1 GSM850

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

3.2 Test Graph

3.2.1 GSM850



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 GSM850_OBW

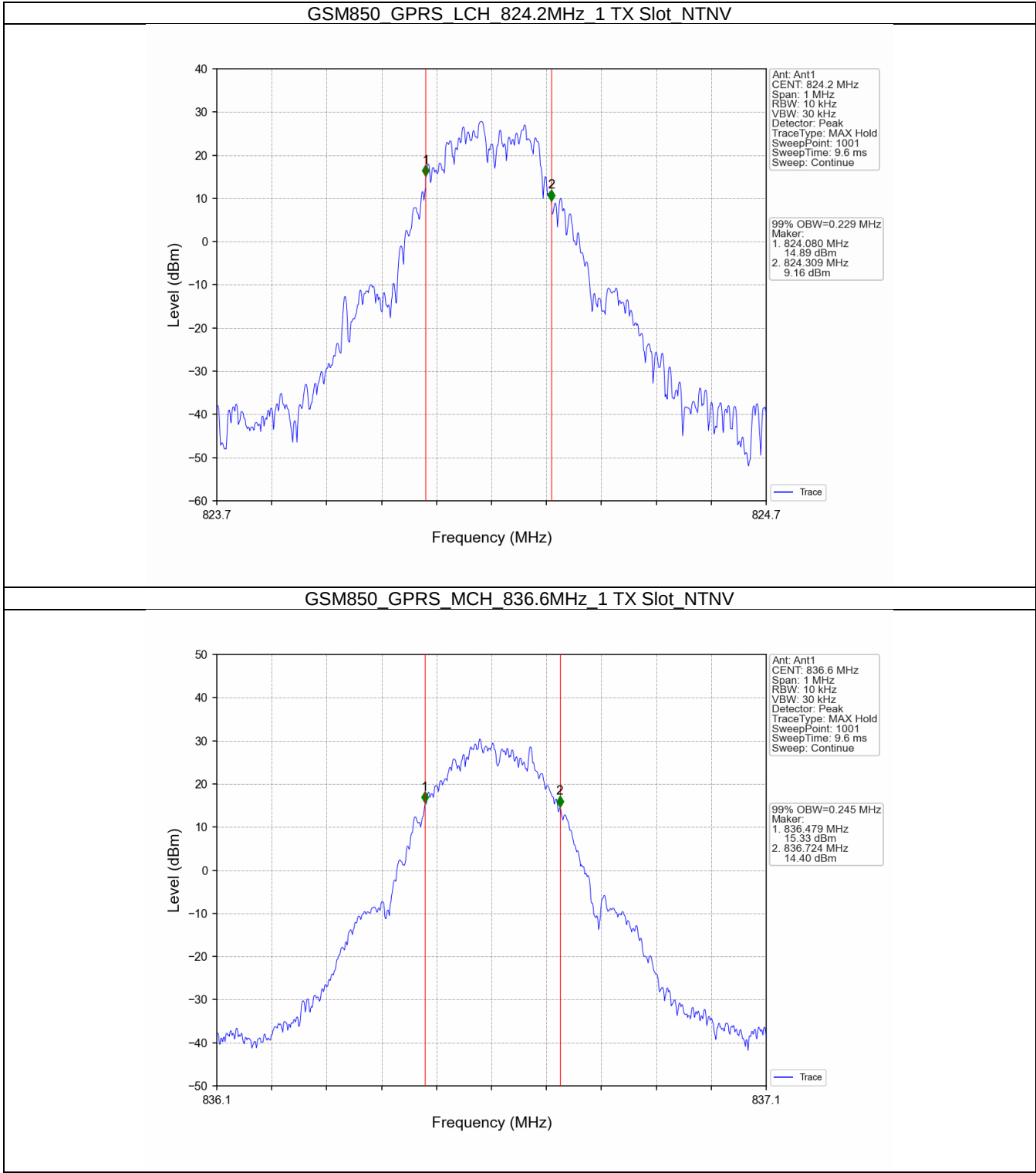
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ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	824.2	0.229	/	Pass
			836.6	0.245	/	Pass
			848.8	0.242	/	Pass
	EGPRS	1 TX Slot	824.2	0.244	/	Pass
			836.6	0.245	/	Pass
			848.8	0.236	/	Pass

4.1.2 GSM850_XDB

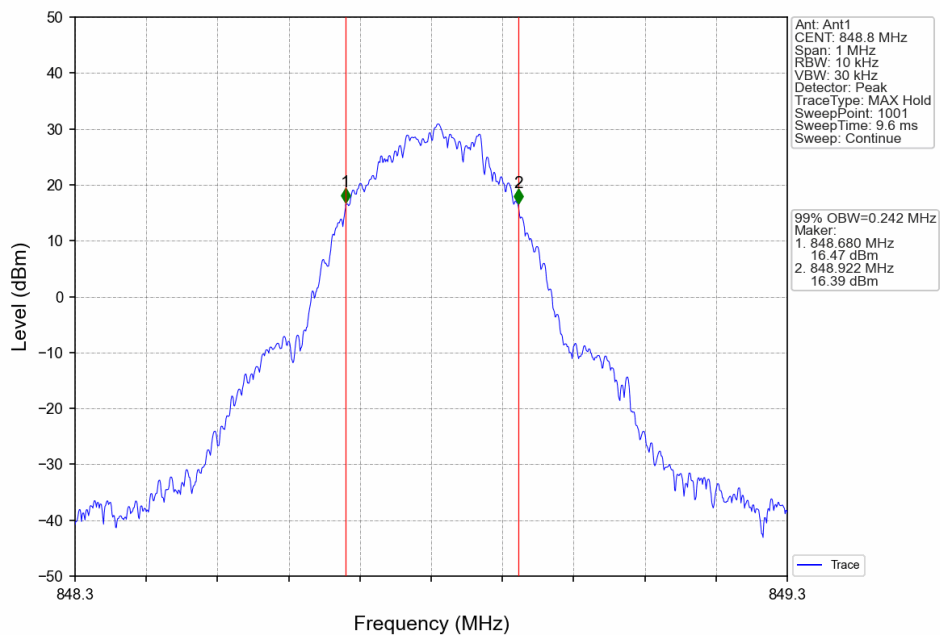
Band: GSM850						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	824.2	0.315	/	Pass
			836.6	0.313	/	Pass
			848.8	0.316	/	Pass
	EGPRS	1 TX Slot	824.2	0.302	/	Pass
			836.6	0.304	/	Pass
			848.8	0.293	/	Pass

4.2 Test Graph

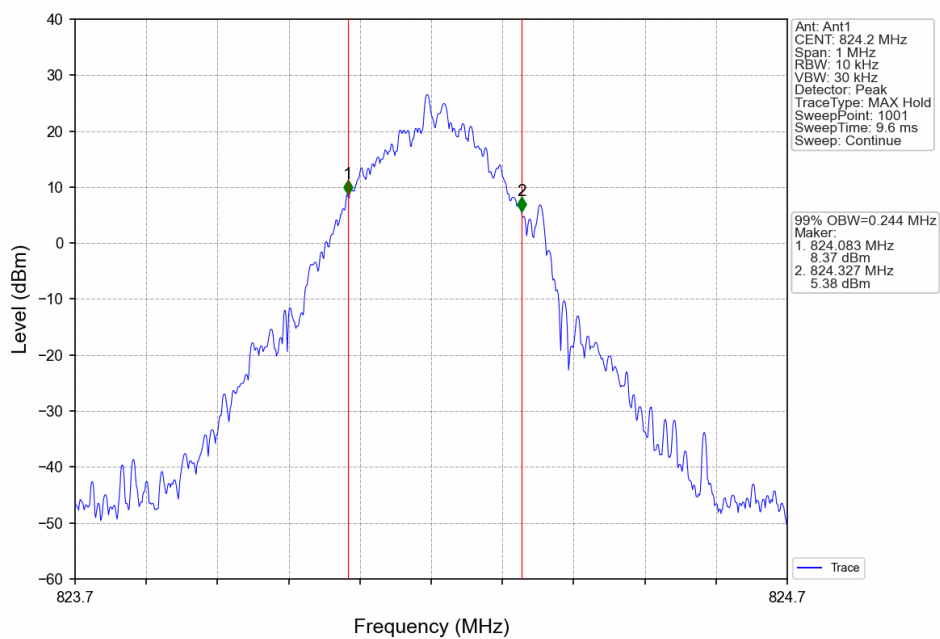
4.2.1 GSM850_OBW



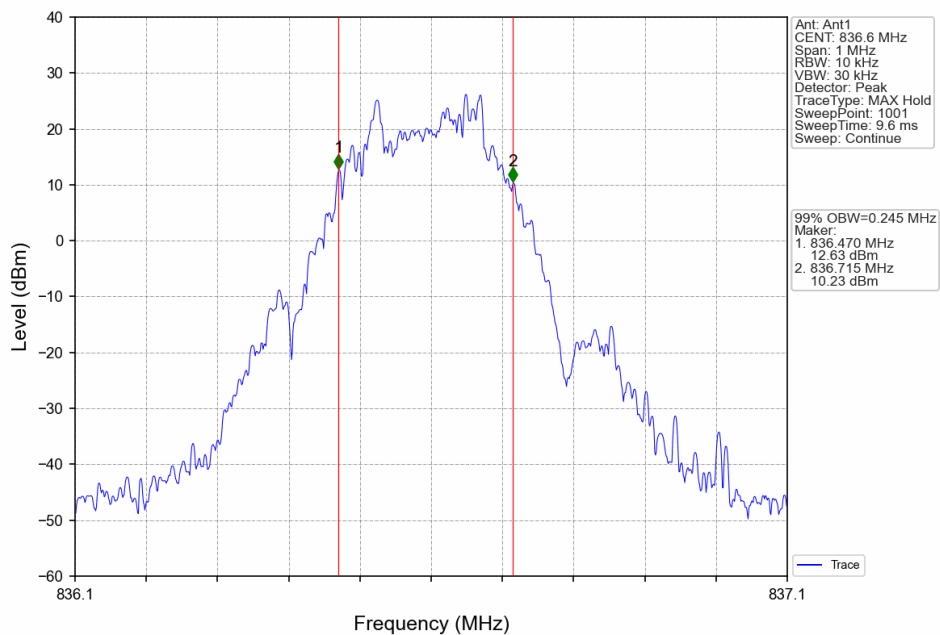
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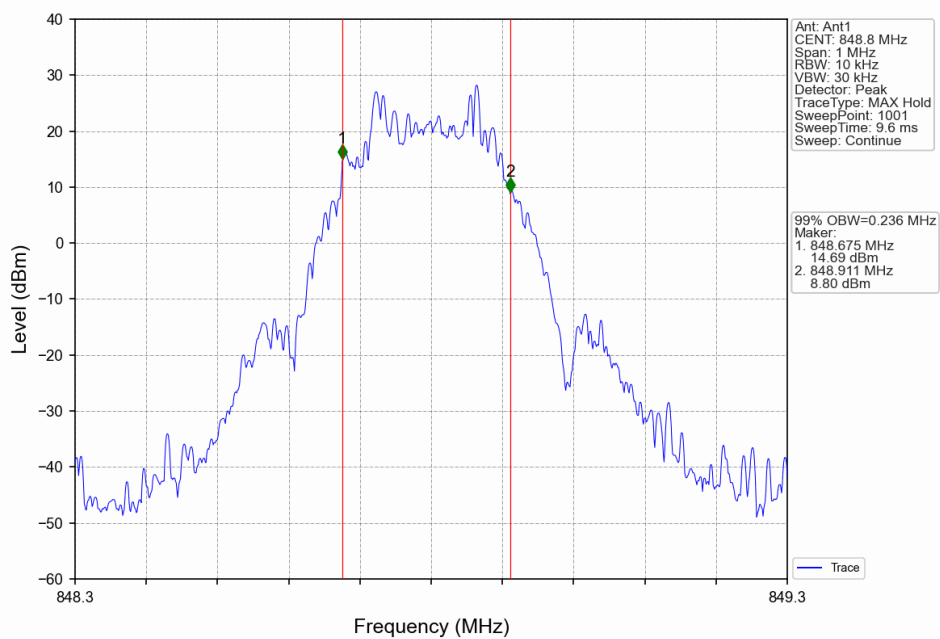
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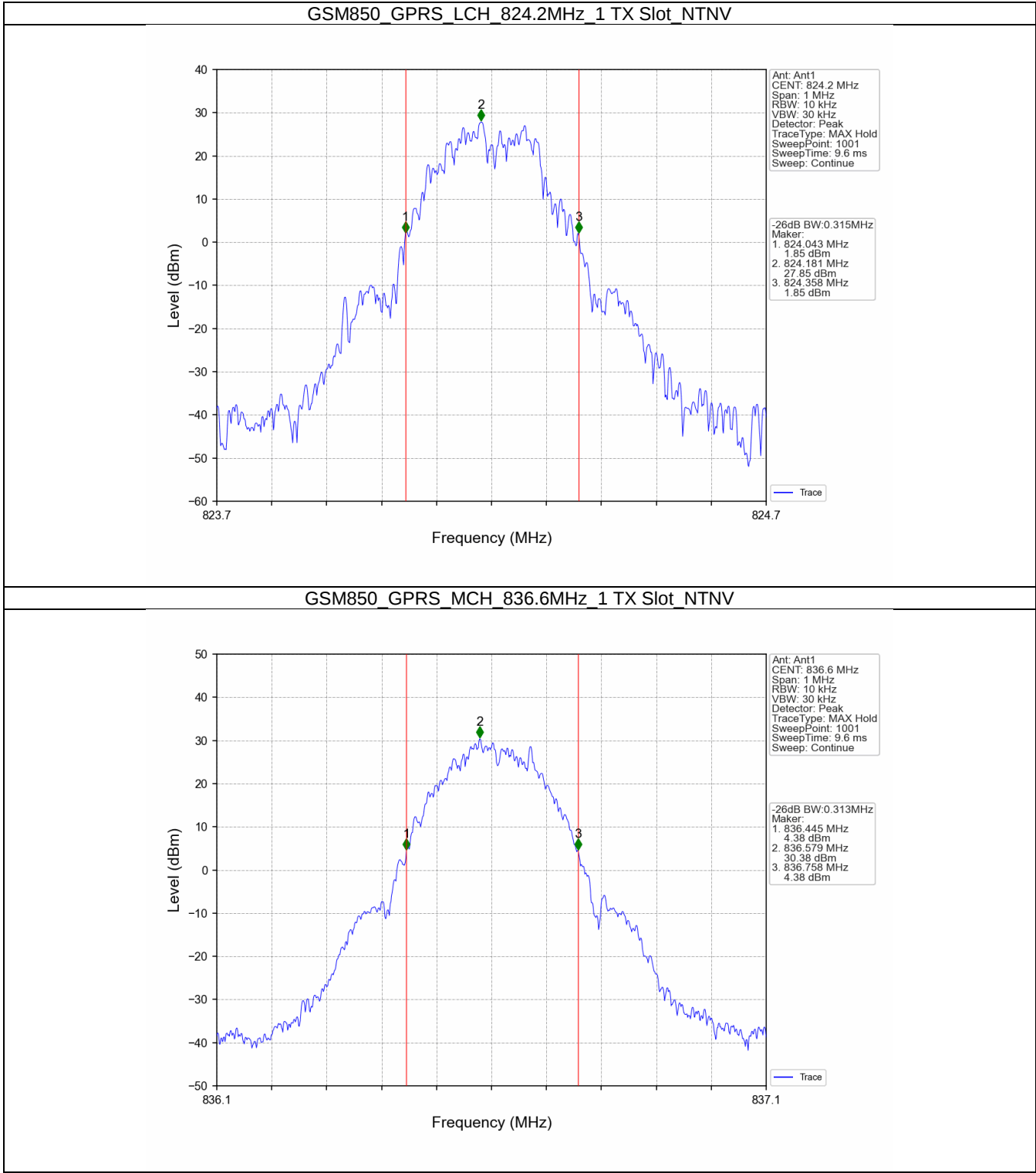
GSM850 EGPRS MCH 836.6MHz 1 TX Slot NTNV



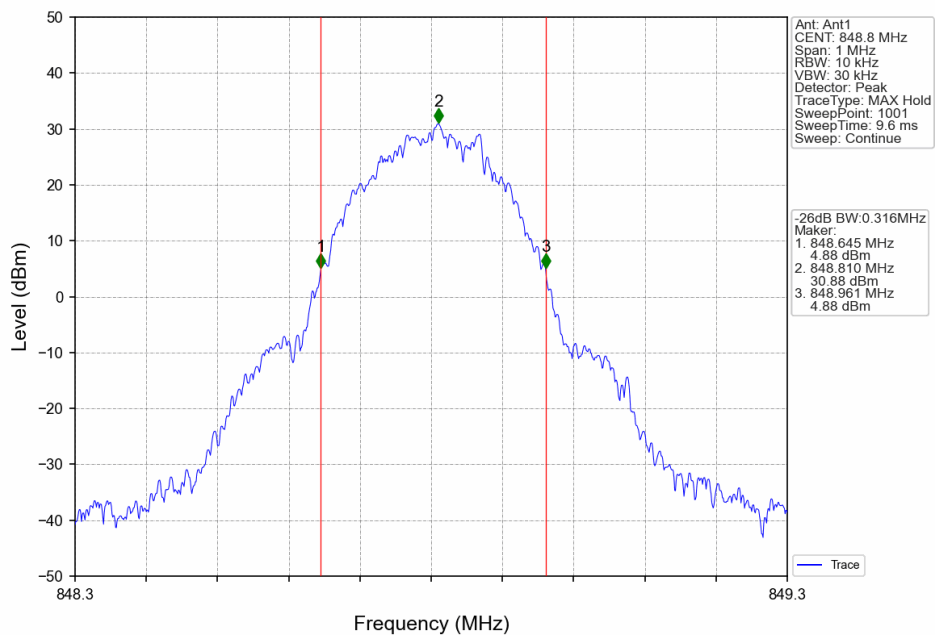
GSM850 EGPRS HCH 848.8MHz 1 TX Slot NTNV



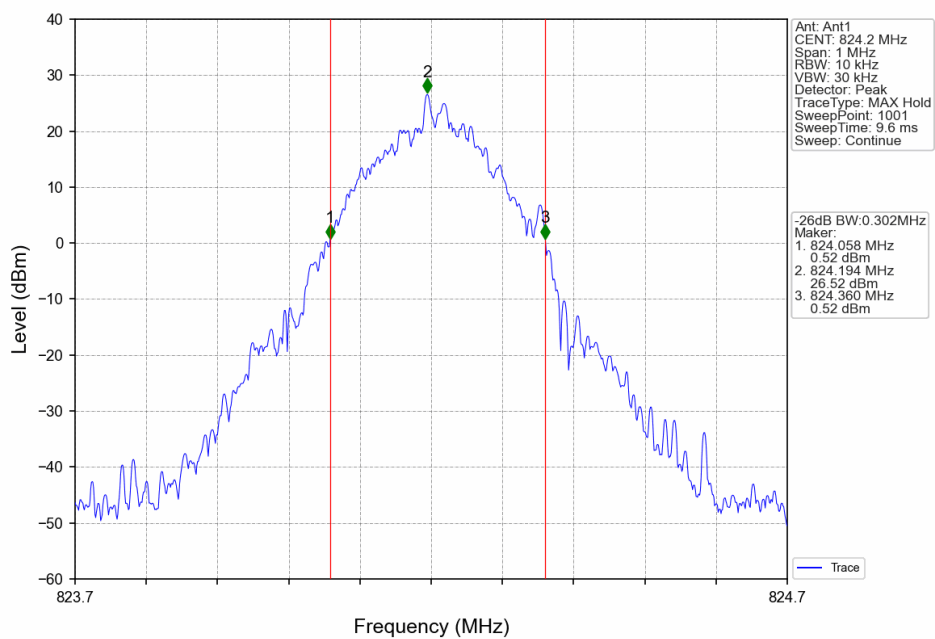
4.2.2 GSM850_XDB



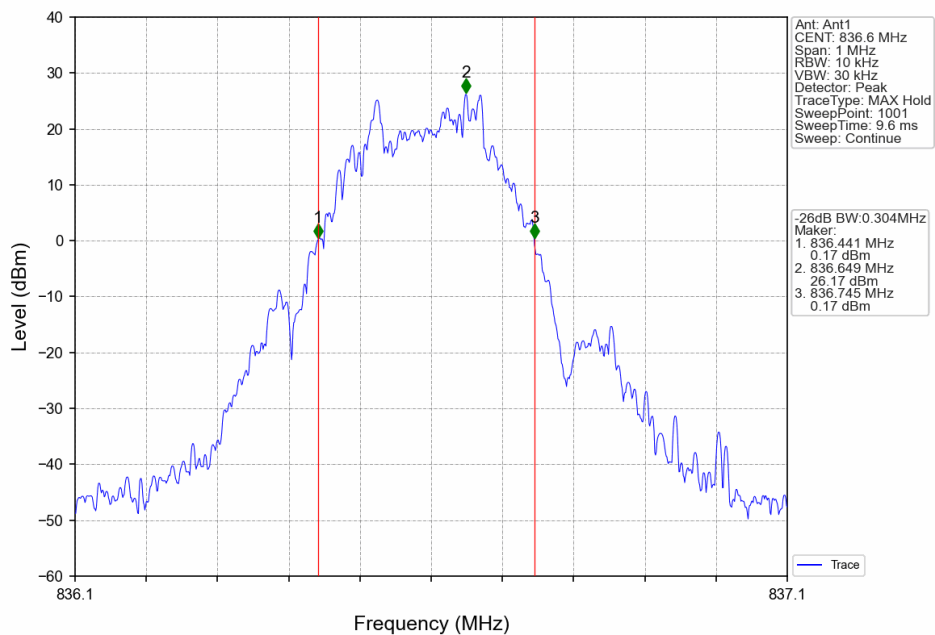
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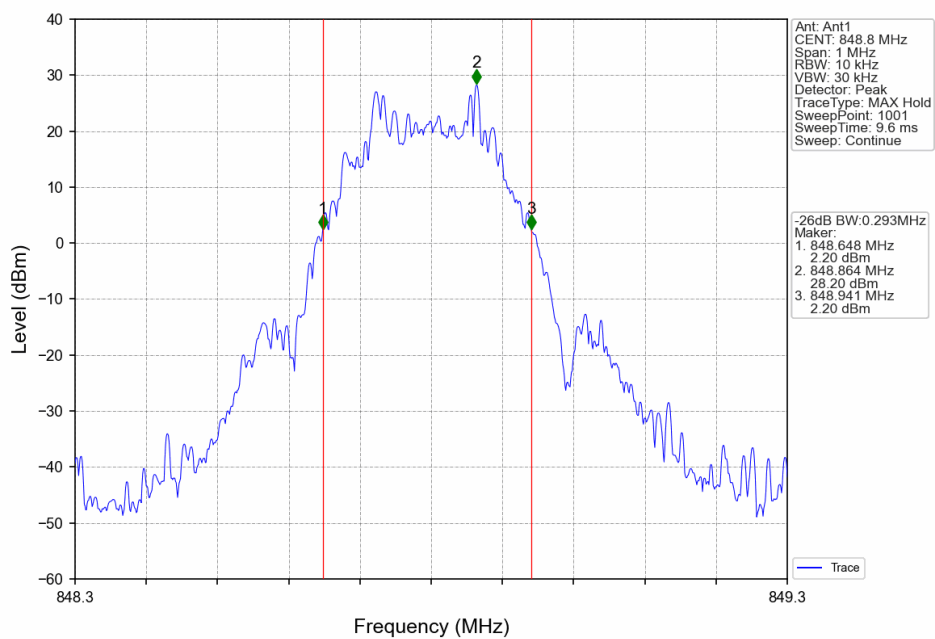
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GSM850 EGPRS MCH 836.6MHz 1 TX Slot NTNV



GSM850 EGPRS HCH 848.8MHz 1 TX Slot NTNV



5. Spurious Emission

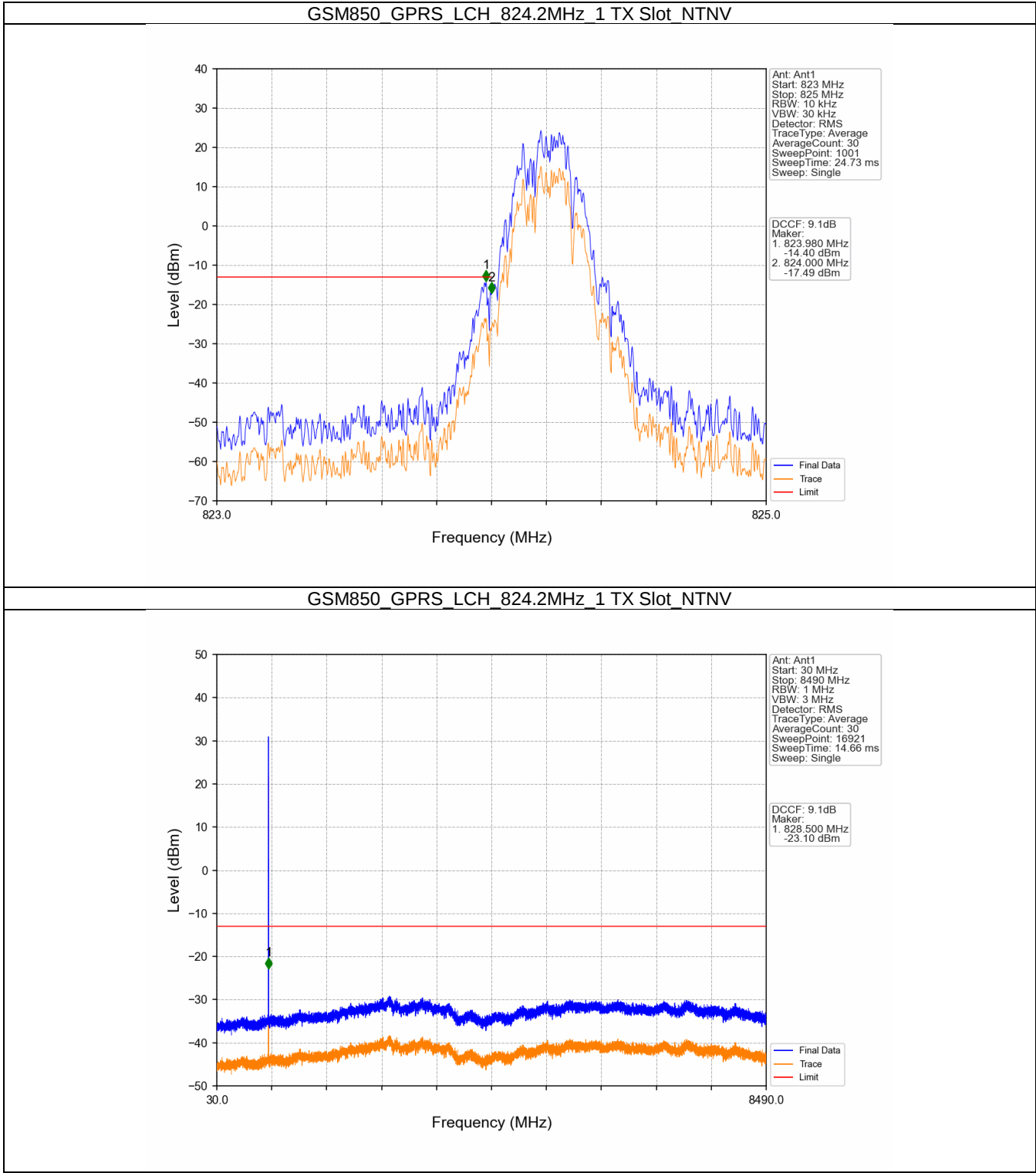
5.1 Test Result

5.1.1 GSM850

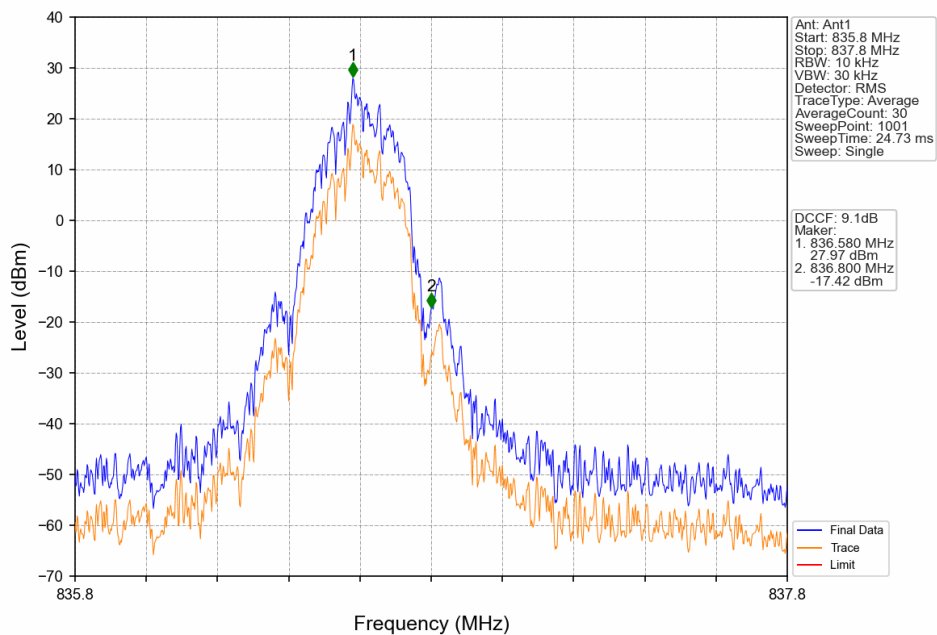
Band: GSM850						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	824.2	Refer To Test Graph	Pass	
			836.6	Refer To Test Graph	Pass	
			848.8	Refer To Test Graph	Pass	
	EGPRS	1 TX Slot	824.2	Refer To Test Graph	Pass	
			836.6	Refer To Test Graph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

5.2 Test Graph

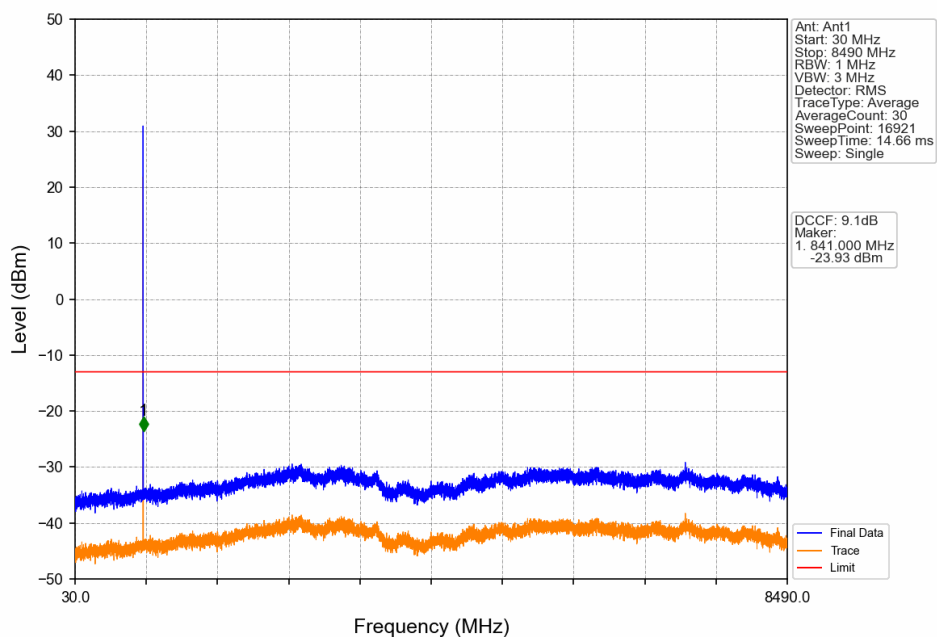
5.2.1 GSM850



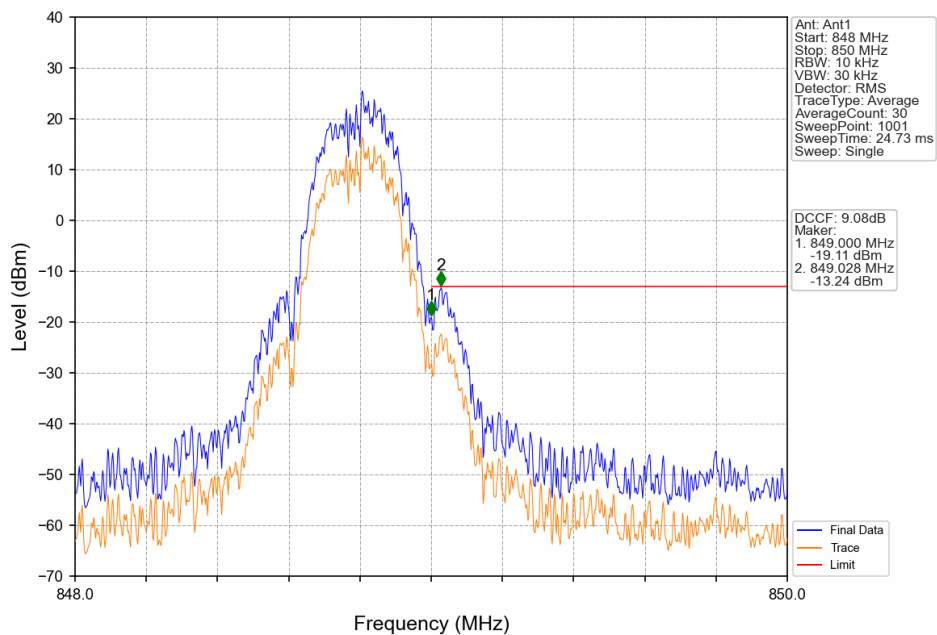
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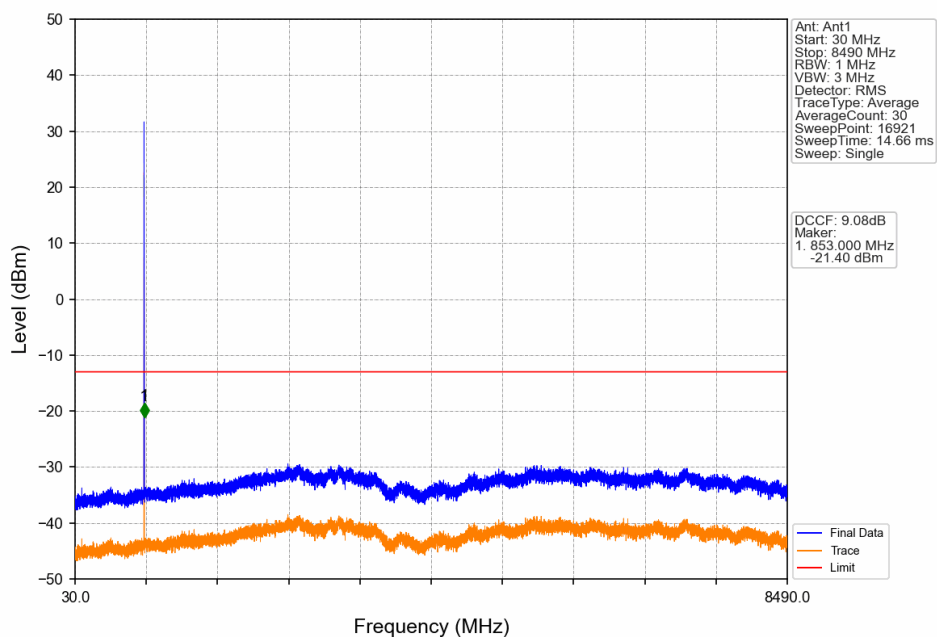
GSM850 GPRS MCH 836.6MHz 1 TX Slot NTN



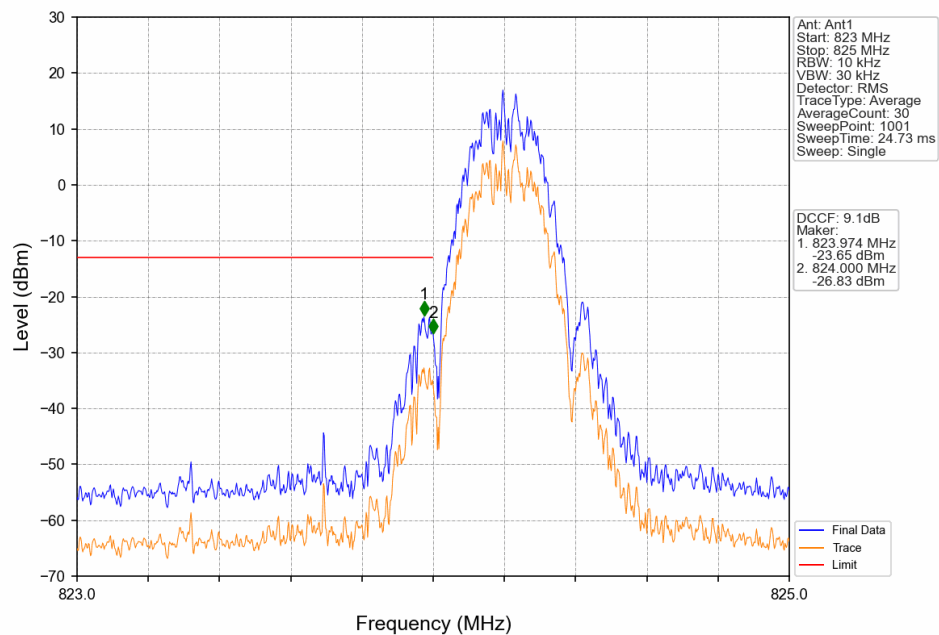
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



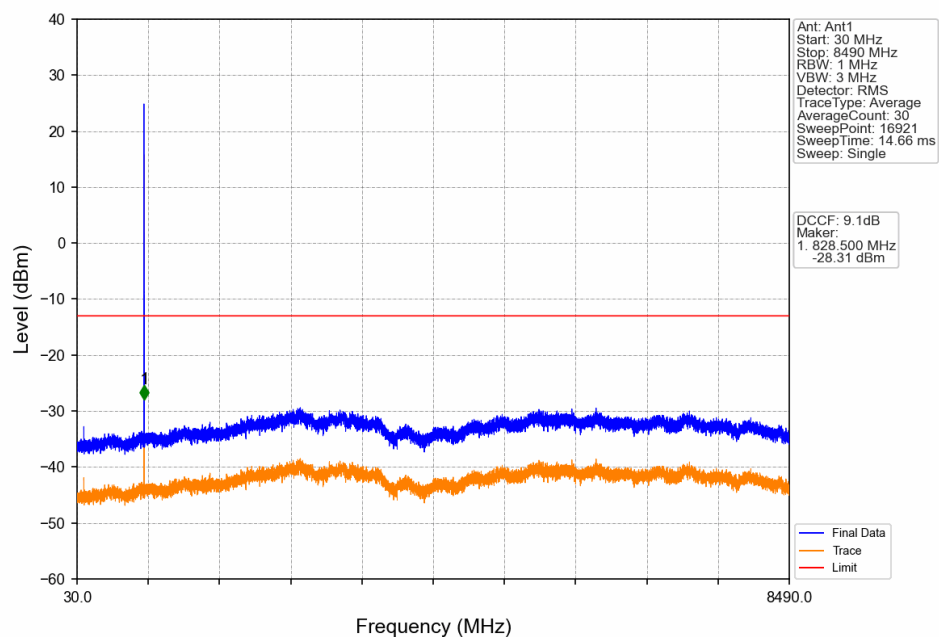
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



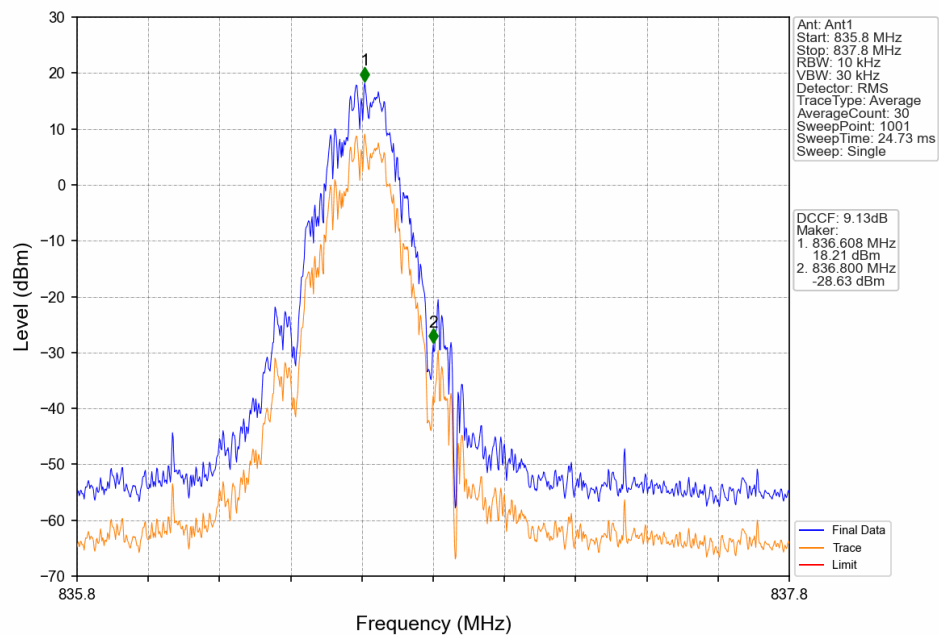
GSM850 EGPRS LCH 824.2MHz 1 TX Slot NTNV



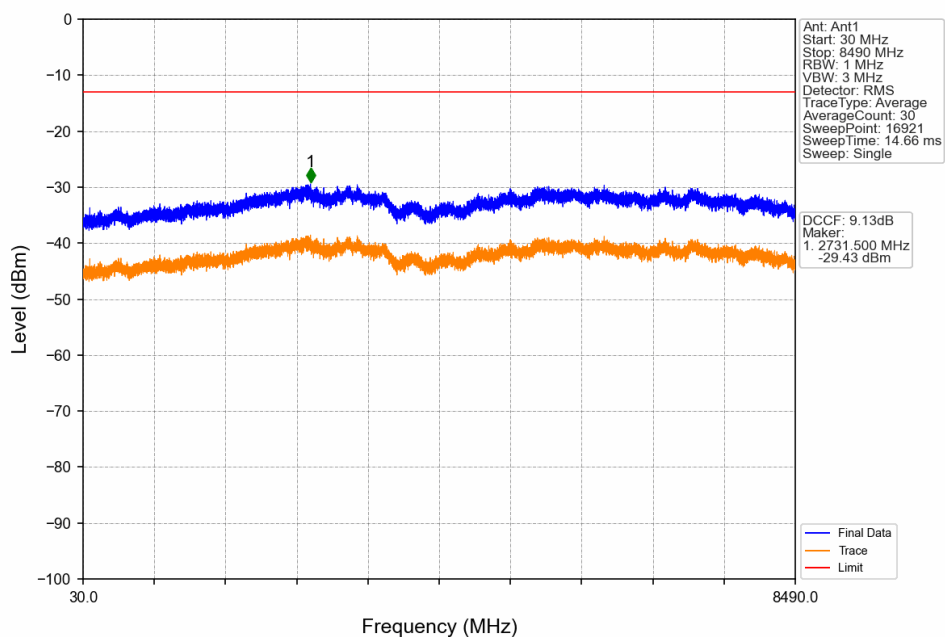
GSM850 EGPRS LCH 824.2MHz 1 TX Slot NTNV



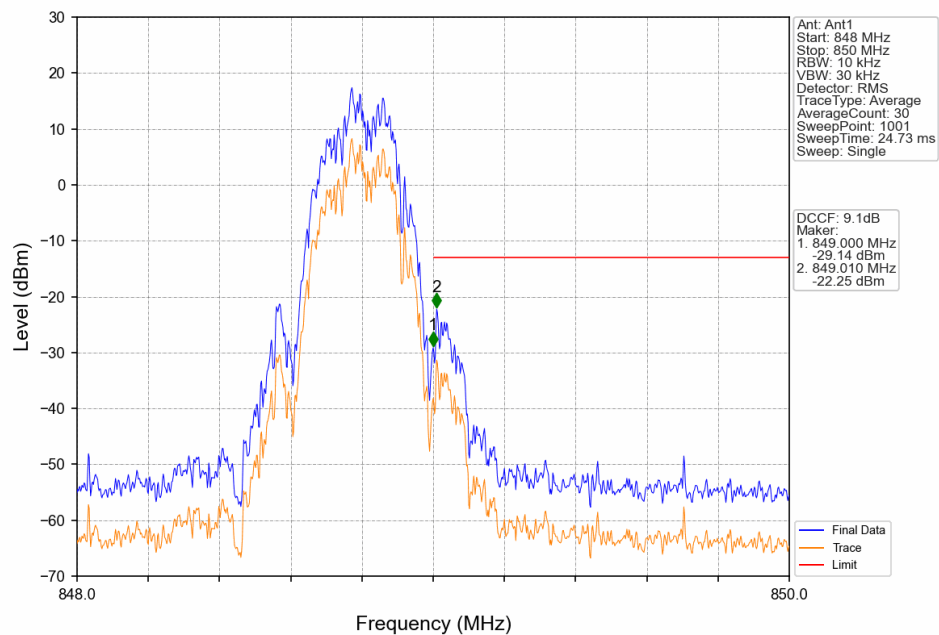
GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



GSM850_EGPRS_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

