

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	32.04	-2.92	26.97	<=38.45	Pass
		2 TX Slots	824.2	29.87	-2.92	24.80	<=38.45	Pass
		3 TX Slots	824.2	27.91	-2.92	22.84	<=38.45	Pass
		4 TX Slots	824.2	25.86	-2.92	20.79	<=38.45	Pass
		1 TX Slot	836.6	31.80	-2.92	26.73	<=38.45	Pass
		2 TX Slots	836.6	29.61	-2.92	24.54	<=38.45	Pass
		3 TX Slots	836.6	27.65	-2.92	22.58	<=38.45	Pass
		4 TX Slots	836.6	25.59	-2.92	20.52	<=38.45	Pass
		1 TX Slot	848.8	31.90	-2.92	26.83	<=38.45	Pass
		2 TX Slots	848.8	29.42	-2.92	24.35	<=38.45	Pass
		3 TX Slots	848.8	27.47	-2.92	22.40	<=38.45	Pass
		4 TX Slots	848.8	25.41	-2.92	20.34	<=38.45	Pass
	EGPRS	1 TX Slot	824.2	26.69	-2.92	21.62	<=38.45	Pass
		2 TX Slots	824.2	25.43	-2.92	20.36	<=38.45	Pass
		3 TX Slots	824.2	22.72	-2.92	17.65	<=38.45	Pass
		4 TX Slots	824.2	20.28	-2.92	15.21	<=38.45	Pass
		1 TX Slot	836.6	26.63	-2.92	21.56	<=38.45	Pass
		2 TX Slots	836.6	25.27	-2.92	20.20	<=38.45	Pass
		3 TX Slots	836.6	22.44	-2.92	17.37	<=38.45	Pass
		4 TX Slots	836.6	20.09	-2.92	15.02	<=38.45	Pass
		1 TX Slot	848.8	26.57	-2.92	21.50	<=38.45	Pass
		2 TX Slots	848.8	25.01	-2.92	19.94	<=38.45	Pass
		3 TX Slots	848.8	22.53	-2.92	17.46	<=38.45	Pass
		4 TX Slots	848.8	20.11	-2.92	15.04	<=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	-3.067	-0.0037	-2.5 to 2.5	Pass
			NV	-4.681	-0.0057	-2.5 to 2.5	Pass
			HV	-1.679	-0.0020	-2.5 to 2.5	Pass
		-30	NV	-3.713	-0.0045	-2.5 to 2.5	Pass
		-20	NV	-2.873	-0.0035	-2.5 to 2.5	Pass
		-10	NV	-9.201	-0.0112	-2.5 to 2.5	Pass
		0	NV	-6.199	-0.0075	-2.5 to 2.5	Pass
		10	NV	-1.453	-0.0018	-2.5 to 2.5	Pass
		30	NV	-6.167	-0.0075	-2.5 to 2.5	Pass
		40	NV	-6.974	-0.0085	-2.5 to 2.5	Pass
		50	NV	-11.591	-0.0141	-2.5 to 2.5	Pass
	836.6	20	LV	-5.811	-0.0069	-2.5 to 2.5	Pass
			NV	-4.843	-0.0058	-2.5 to 2.5	Pass
			HV	-7.749	-0.0093	-2.5 to 2.5	Pass
		-30	NV	-5.779	-0.0069	-2.5 to 2.5	Pass
		-20	NV	-6.812	-0.0081	-2.5 to 2.5	Pass
		-10	NV	-6.393	-0.0076	-2.5 to 2.5	Pass
		0	NV	-2.389	-0.0029	-2.5 to 2.5	Pass
		10	NV	-8.233	-0.0098	-2.5 to 2.5	Pass
		30	NV	-5.198	-0.0062	-2.5 to 2.5	Pass
		40	NV	-2.486	-0.0030	-2.5 to 2.5	Pass
		50	NV	-5.521	-0.0066	-2.5 to 2.5	Pass
	848.8	20	LV	-3.810	-0.0045	-2.5 to 2.5	Pass
			NV	0.743	0.0009	-2.5 to 2.5	Pass
			HV	-2.551	-0.0030	-2.5 to 2.5	Pass
		-30	NV	-5.908	-0.0070	-2.5 to 2.5	Pass
		-20	NV	-4.100	-0.0048	-2.5 to 2.5	Pass
		-10	NV	-0.710	-0.0008	-2.5 to 2.5	Pass
		0	NV	-3.325	-0.0039	-2.5 to 2.5	Pass
		10	NV	0.872	0.0010	-2.5 to 2.5	Pass
		30	NV	-2.841	-0.0033	-2.5 to 2.5	Pass
		40	NV	1.969	0.0023	-2.5 to 2.5	Pass
EGPRS	824.2	20	LV	-0.775	-0.0009	-2.5 to 2.5	Pass
			NV	-1.840	-0.0022	-2.5 to 2.5	Pass
			HV	-4.843	-0.0059	-2.5 to 2.5	Pass
		-30	NV	-1.582	-0.0019	-2.5 to 2.5	Pass
		-20	NV	-3.293	-0.0040	-2.5 to 2.5	Pass
		-10	NV	0.969	0.0012	-2.5 to 2.5	Pass
		0	NV	0.807	0.0010	-2.5 to 2.5	Pass
		10	NV	-4.875	-0.0059	-2.5 to 2.5	Pass
		30	NV	-2.454	-0.0030	-2.5 to 2.5	Pass
		40	NV	-0.678	-0.0008	-2.5 to 2.5	Pass
		50	NV	2.906	0.0035	-2.5 to 2.5	Pass
	836.6	20	LV	-2.389	-0.0029	-2.5 to 2.5	Pass
			NV	3.777	0.0045	-2.5 to 2.5	Pass

			HV	-8.911	-0.0107	-2.5 to 2.5	Pass
		-30	NV	-5.682	-0.0068	-2.5 to 2.5	Pass
		-20	NV	-2.454	-0.0029	-2.5 to 2.5	Pass
		-10	NV	-2.938	-0.0035	-2.5 to 2.5	Pass
		0	NV	-8.007	-0.0096	-2.5 to 2.5	Pass
		10	NV	-5.715	-0.0068	-2.5 to 2.5	Pass
		30	NV	-2.518	-0.0030	-2.5 to 2.5	Pass
		40	NV	-6.651	-0.0080	-2.5 to 2.5	Pass
		50	NV	-4.972	-0.0059	-2.5 to 2.5	Pass
	848.8	20	LV	-5.004	-0.0059	-2.5 to 2.5	Pass
			NV	1.905	0.0022	-2.5 to 2.5	Pass
			HV	-1.453	-0.0017	-2.5 to 2.5	Pass
		-30	NV	-5.811	-0.0068	-2.5 to 2.5	Pass
		-20	NV	-2.357	-0.0028	-2.5 to 2.5	Pass
		-10	NV	0.743	0.0009	-2.5 to 2.5	Pass
		0	NV	-7.264	-0.0086	-2.5 to 2.5	Pass
		10	NV	-0.065	-0.0001	-2.5 to 2.5	Pass
		30	NV	-3.551	-0.0042	-2.5 to 2.5	Pass
		40	NV	-0.387	-0.0005	-2.5 to 2.5	Pass
		50	NV	-2.486	-0.0029	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 GSM850_OBW

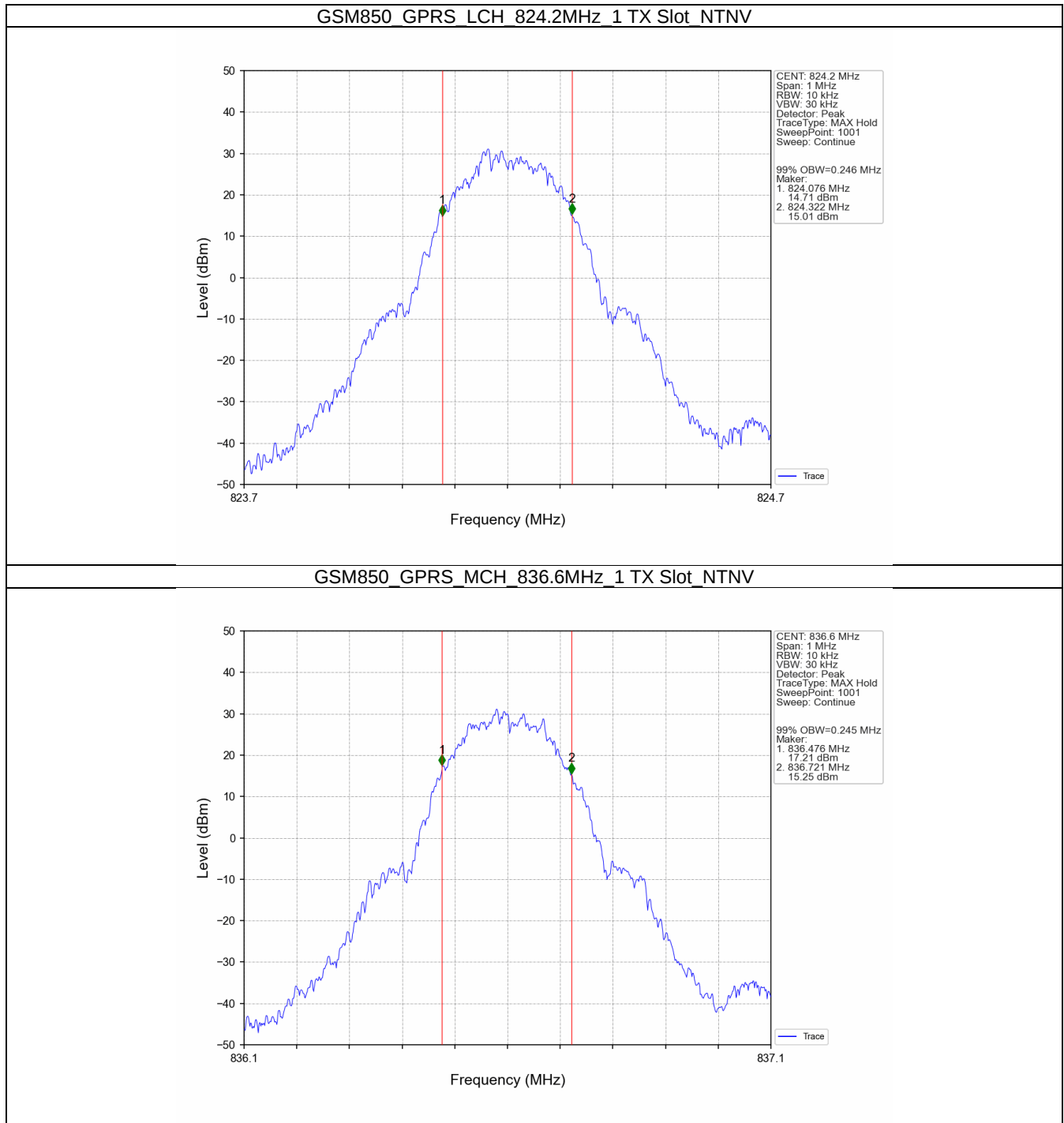
Band: GSM850						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	824.2	0.246	/	Pass
			836.6	0.245	/	Pass
			848.8	0.251	/	Pass
	EGPRS	1 TX Slot	824.2	0.251	/	Pass
			836.6	0.240	/	Pass
			848.8	0.241	/	Pass

3.1.2 GSM850_XDB

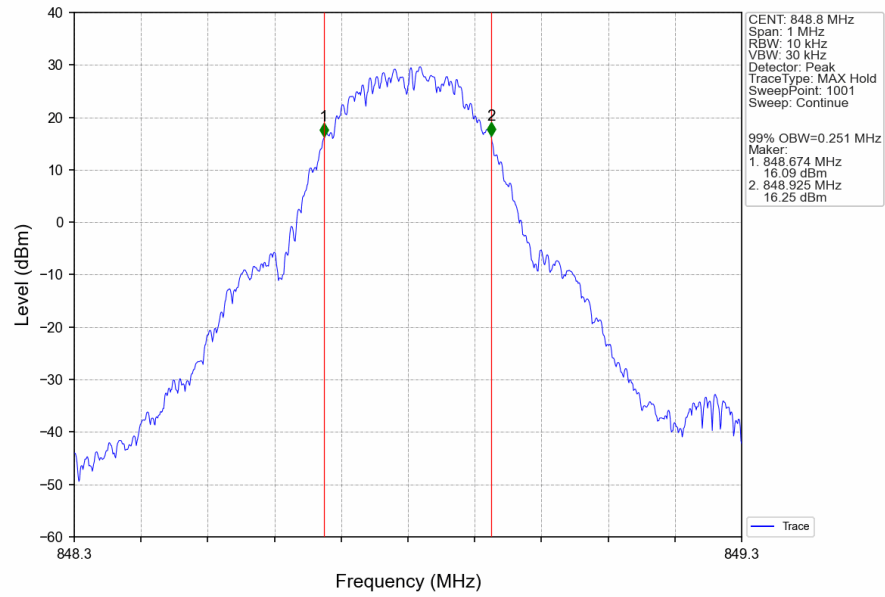
Band: GSM850						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	824.2	0.321	/	Pass
			836.6	0.306	/	Pass
			848.8	0.319	/	Pass
	EGPRS	1 TX Slot	824.2	0.316	/	Pass
			836.6	0.291	/	Pass
			848.8	0.320	/	Pass

3.2 Test Graph

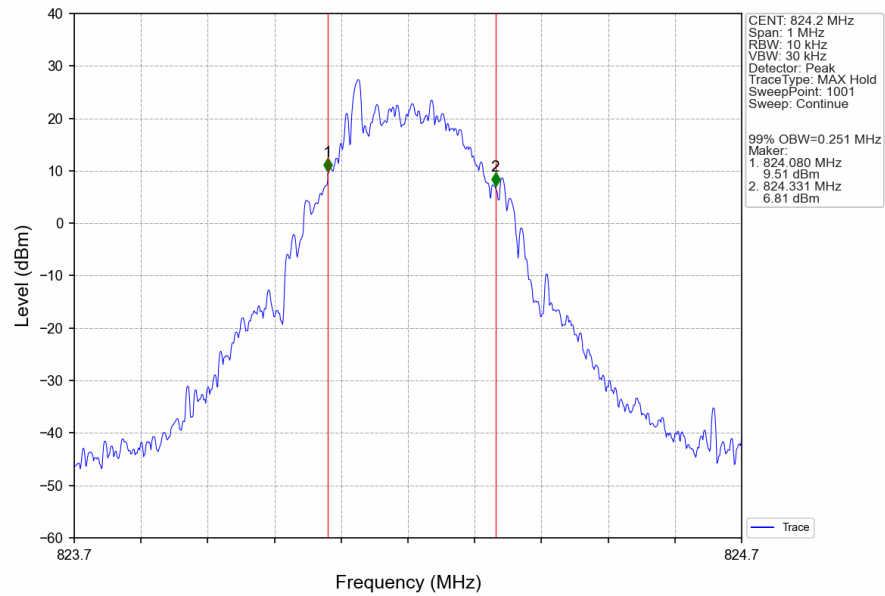
3.2.1 GSM850_OBW



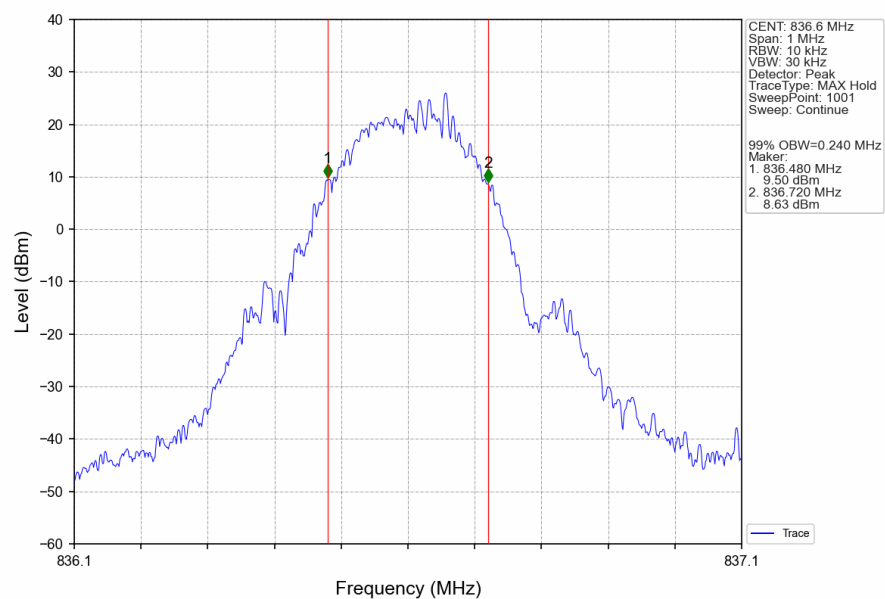
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



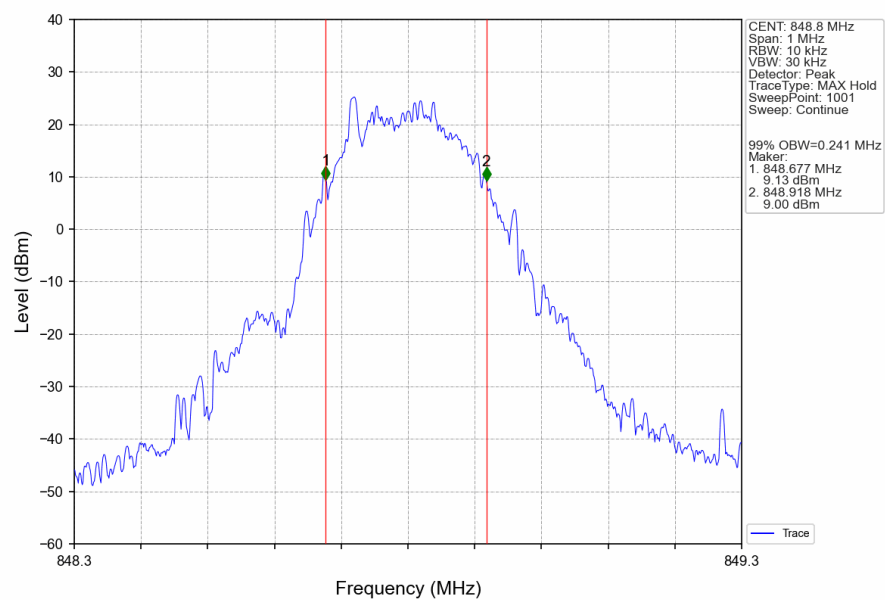
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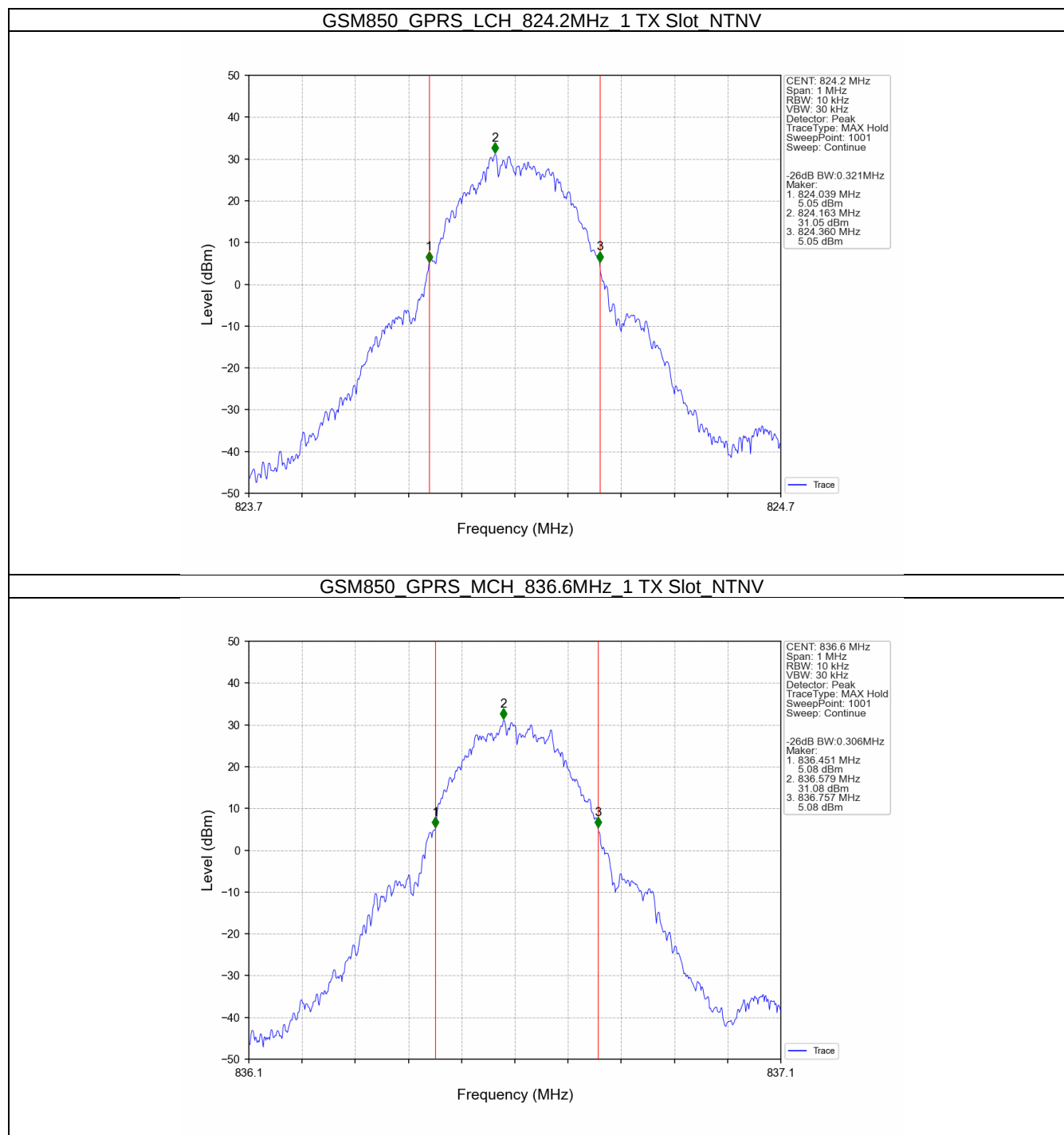
GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



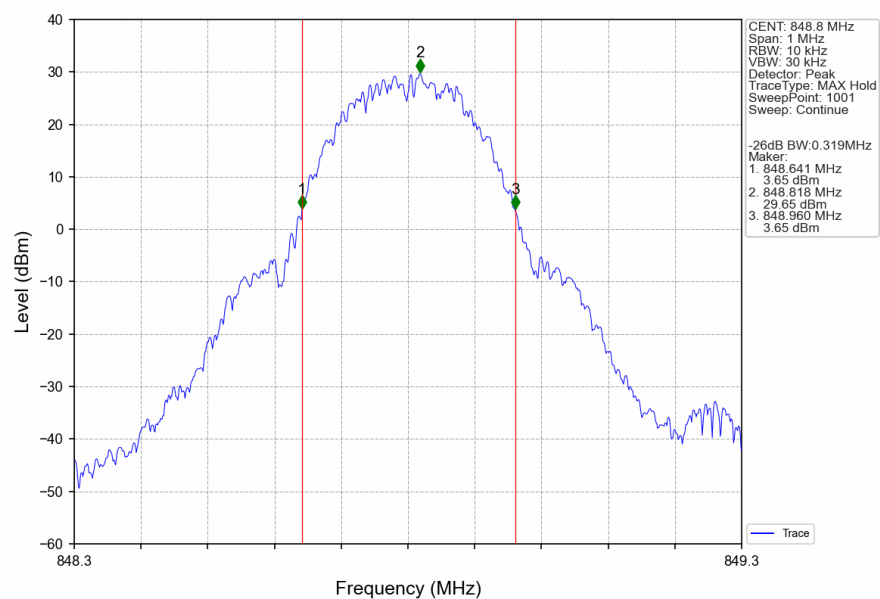
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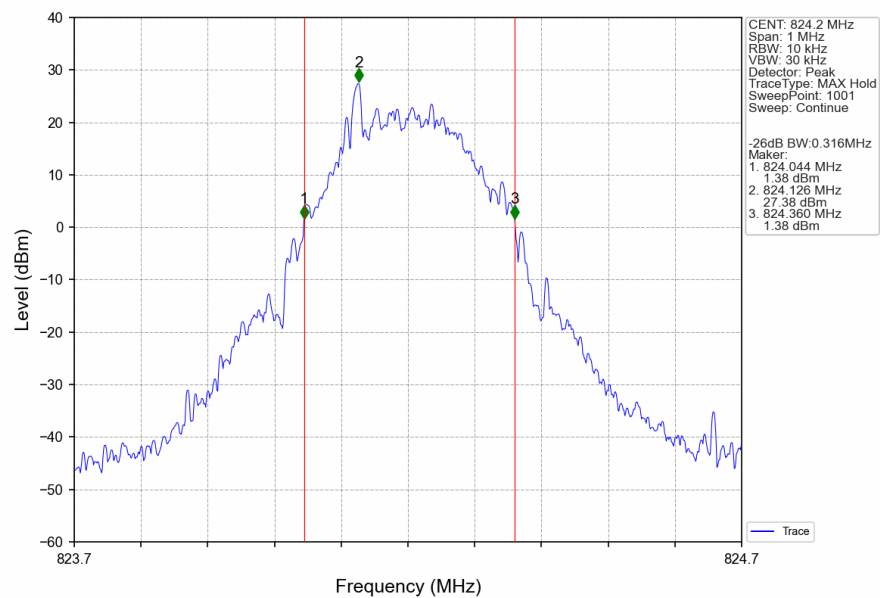
3.2.2 GSM850_XDB



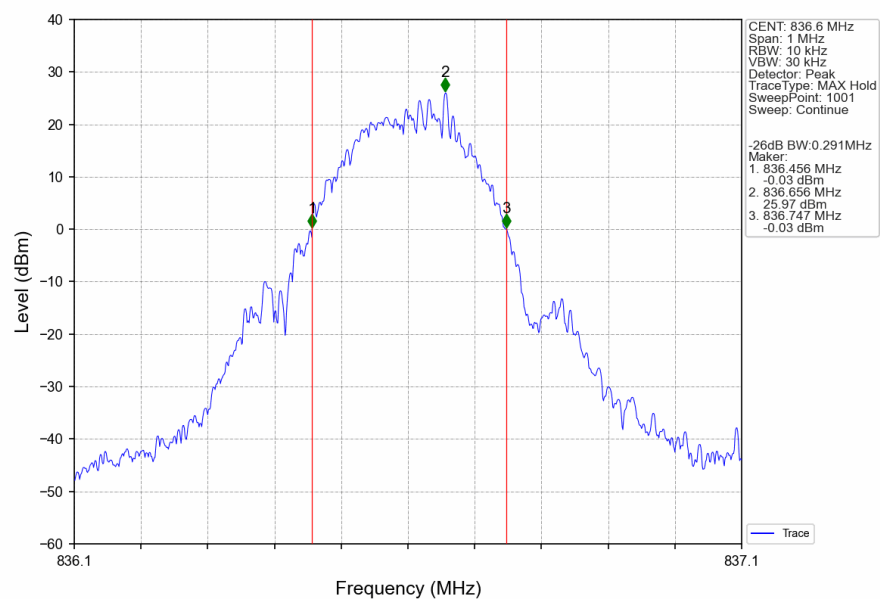
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



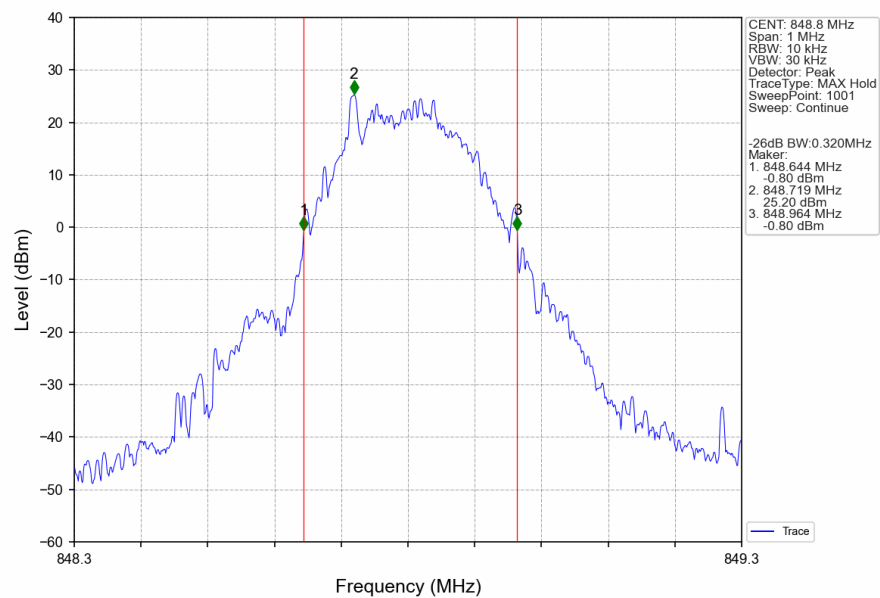
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV





4. Peak-Average Ratio

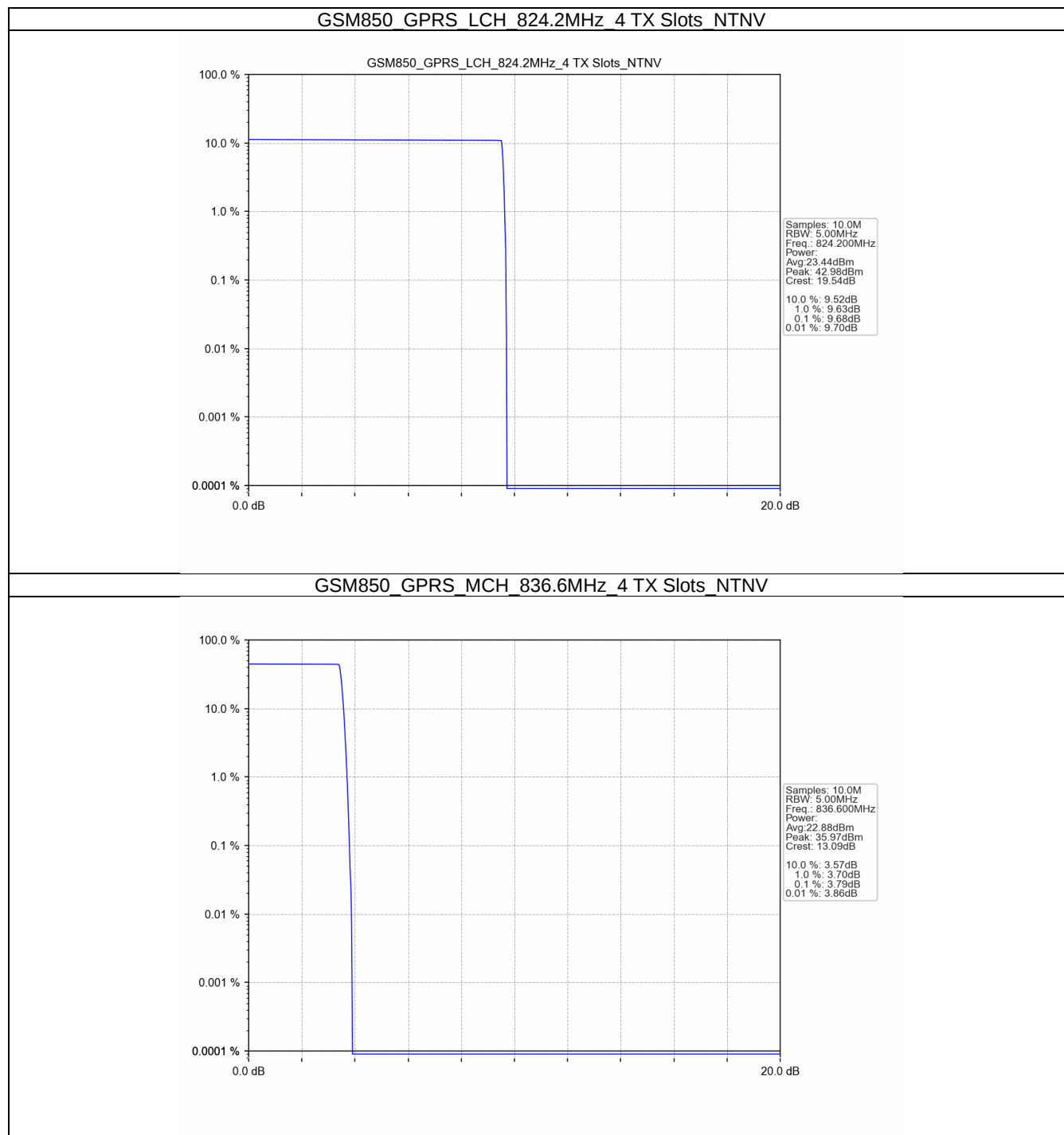
4.1 Test Result

4.1.1 GSM850

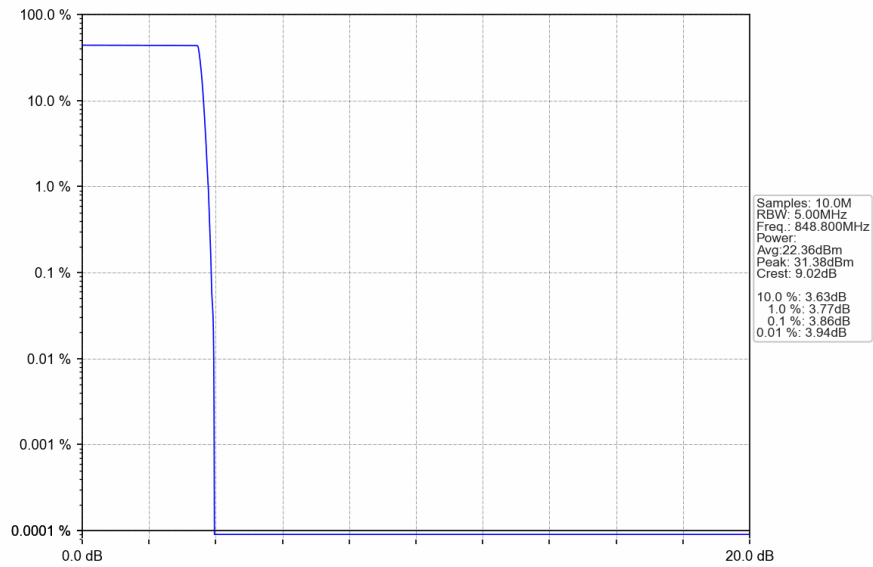
Band: GSM850						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	824.2	9.68	<=13	Pass
			836.6	3.79	<=13	Pass
			848.8	3.86	<=13	Pass
	EGPRS	4 TX Slots	824.2	10.91	<=13	Pass
			836.6	10.91	<=13	Pass
			848.8	10.52	<=13	Pass

4.2 Test Graph

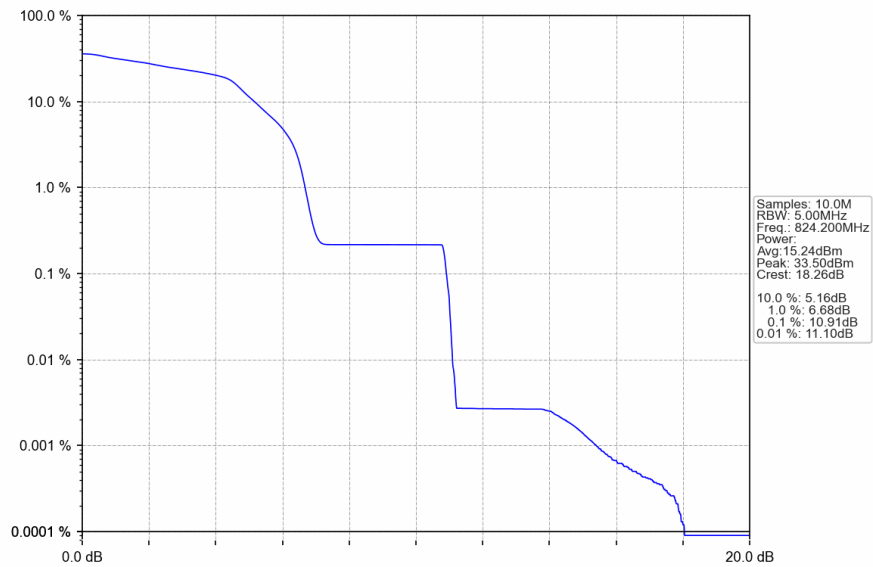
4.2.1 GSM850



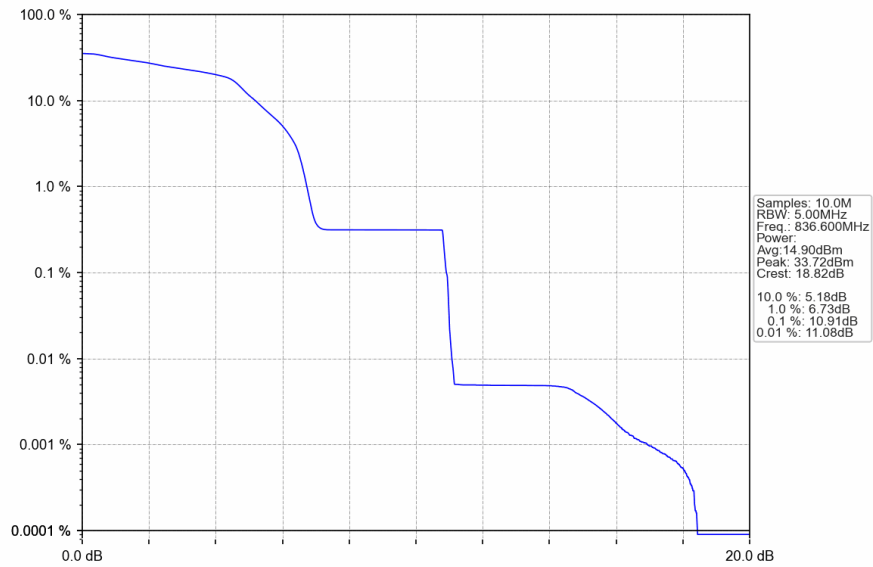
GSM850_GPRS_HCH_848.8MHz_4 TX Slots_NTNV



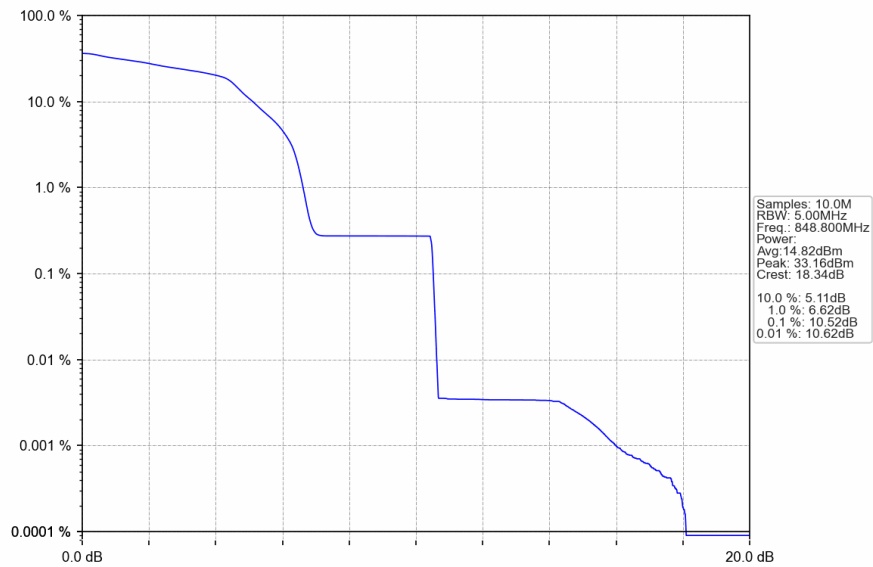
GSM850_EGPRS_LCH_824.2MHz_4 TX Slots_NTNV



GSM850_EGPRS_MCH_836.6MHz_4 TX Slots_NTNV



GSM850_EGPRS_HCH_848.8MHz_4 TX Slots_NTNV





5. Spurious Emission

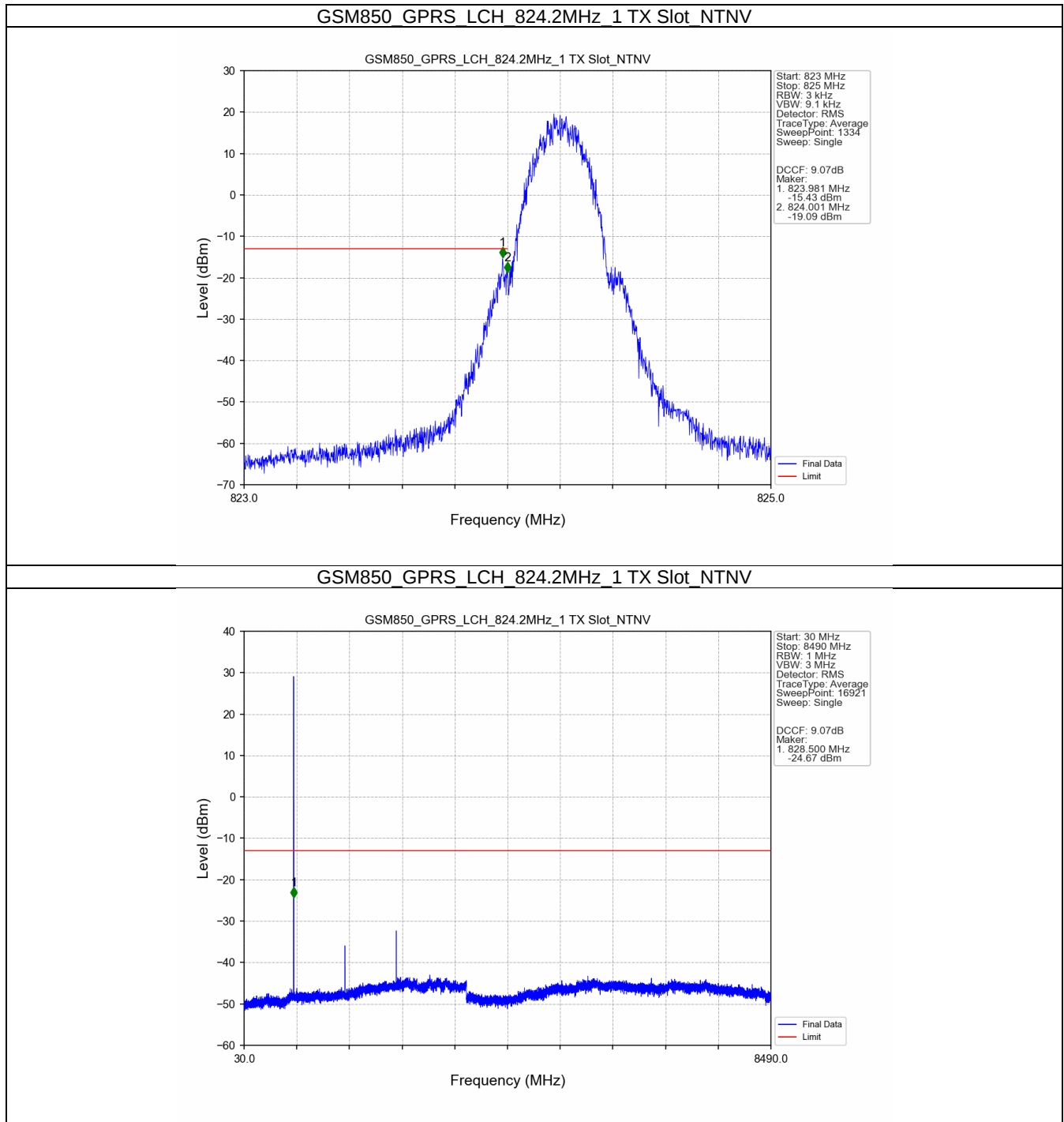
5.1 Test Result

5.1.1 GSM850

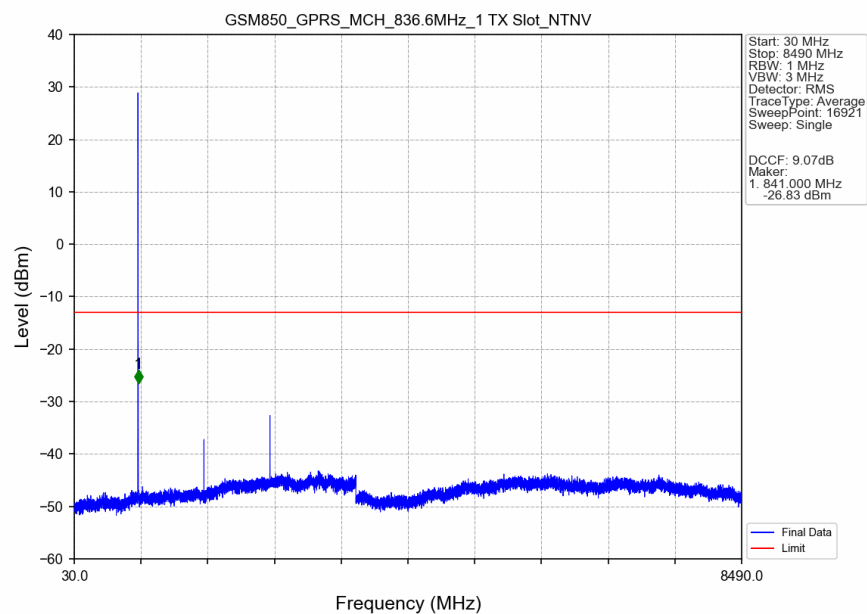
Band: GSM850					
ENV	Mode		Frequency (MHz)	Spurious Emission	
	Network	Subset		Result	Limit
NTNV	GPRS	1 TX Slot	824.2	Refer To Test Graph	Pass
			836.6	Refer To Test Graph	Pass
			848.8	Refer To Test Graph	Pass
	EGPRS	1 TX Slot	824.2	Refer To Test Graph	Pass
			836.6	Refer To Test Graph	Pass
			848.8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

5.2 Test Graph

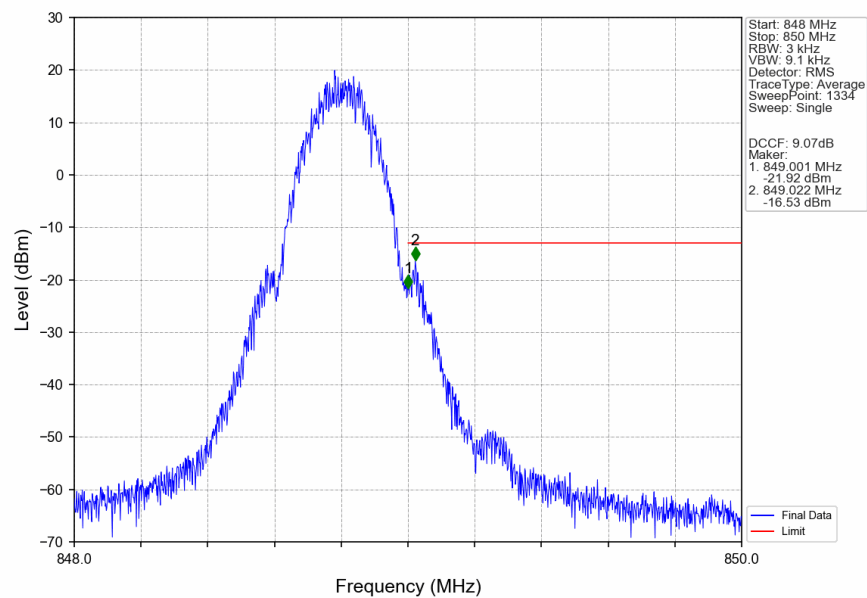
5.2.1 GSM850



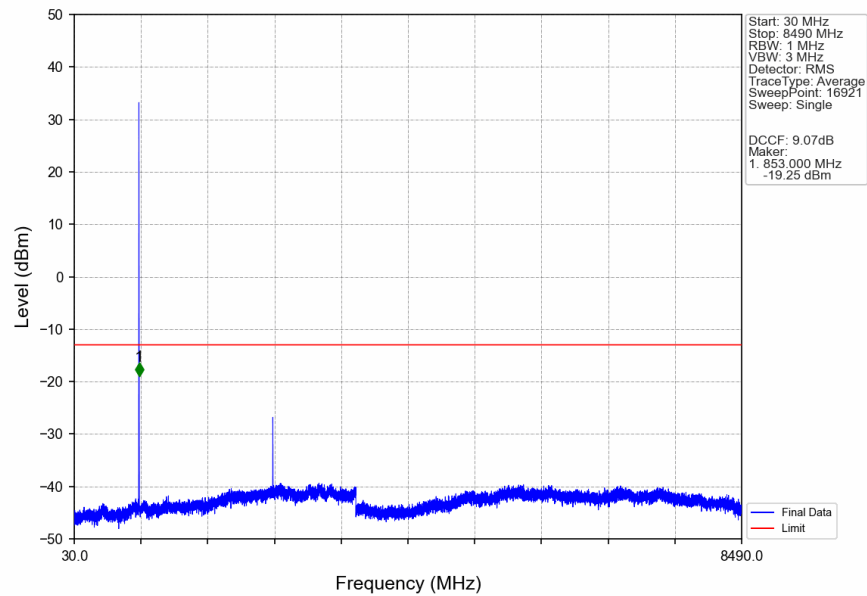
GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



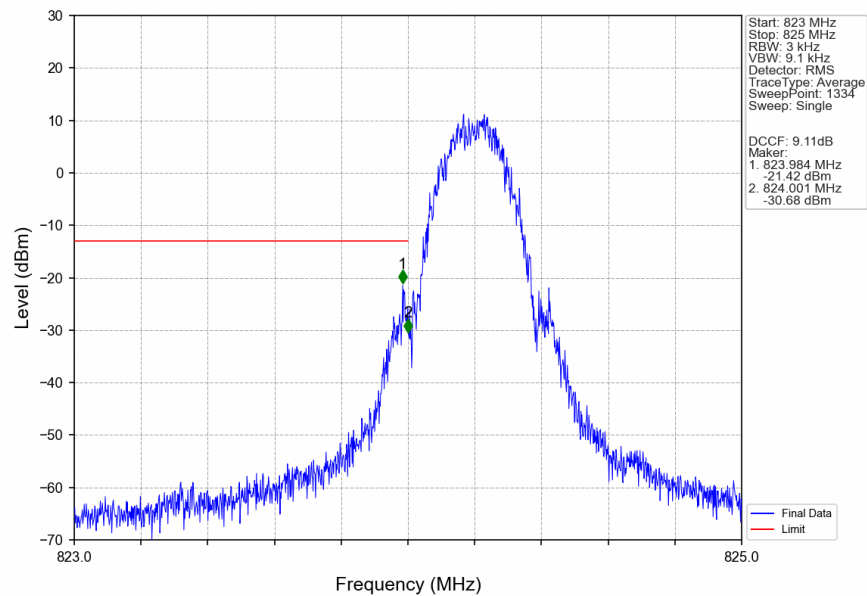
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



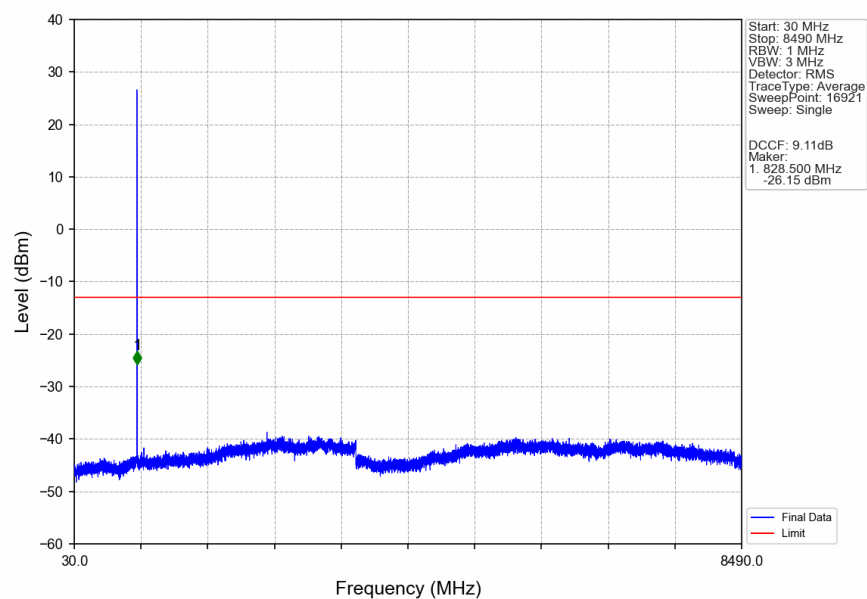
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



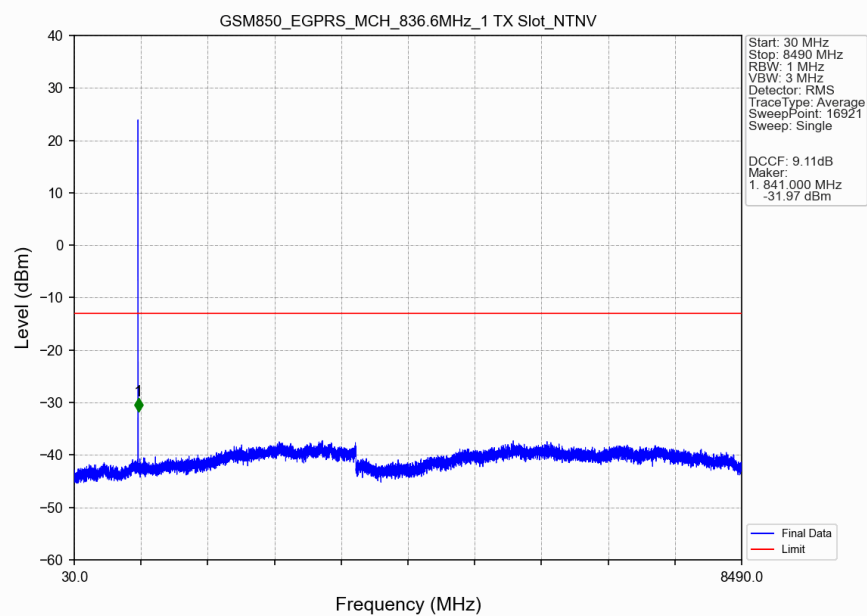
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



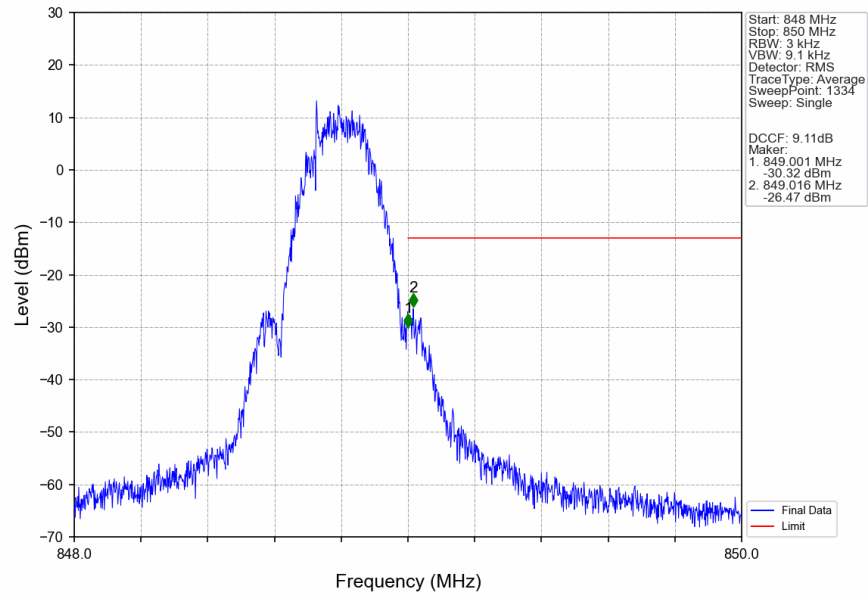
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



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

