

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	32.28	-4.43	25.70	<=38.45	Pass
		2 TX Slots	824.2	30.51	-4.43	23.93	<=38.45	Pass
		3 TX Slots	824.2	28.57	-4.43	21.99	<=38.45	Pass
		4 TX Slots	824.2	26.46	-4.43	19.88	<=38.45	Pass
		1 TX Slot	836.6	32.26	-4.43	25.68	<=38.45	Pass
		2 TX Slots	836.6	30.25	-4.43	23.67	<=38.45	Pass
		3 TX Slots	836.6	28.31	-4.43	21.73	<=38.45	Pass
		4 TX Slots	836.6	26.21	-4.43	19.63	<=38.45	Pass
		1 TX Slot	848.8	32.00	-4.43	25.42	<=38.45	Pass
		2 TX Slots	848.8	29.85	-4.43	23.27	<=38.45	Pass
		3 TX Slots	848.8	27.90	-4.43	21.32	<=38.45	Pass
		4 TX Slots	848.8	25.79	-4.43	19.21	<=38.45	Pass
	EGPRS	1 TX Slot	824.2	25.31	-4.43	18.73	<=38.45	Pass
		2 TX Slots	824.2	23.96	-4.43	17.38	<=38.45	Pass
		3 TX Slots	824.2	21.05	-4.43	14.47	<=38.45	Pass
		4 TX Slots	824.2	19.08	-4.43	12.50	<=38.45	Pass
		1 TX Slot	836.6	25.42	-4.43	18.84	<=38.45	Pass
		2 TX Slots	836.6	24.04	-4.43	17.46	<=38.45	Pass
		3 TX Slots	836.6	20.98	-4.43	14.40	<=38.45	Pass
		4 TX Slots	836.6	19.07	-4.43	12.49	<=38.45	Pass
		1 TX Slot	848.8	25.12	-4.43	18.54	<=38.45	Pass
		2 TX Slots	848.8	23.82	-4.43	17.24	<=38.45	Pass
		3 TX Slots	848.8	20.81	-4.43	14.23	<=38.45	Pass
		4 TX Slots	848.8	18.61	-4.43	12.03	<=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	-6.586	-0.0080	-2.5 to 2.5	Pass
			NV	-2.099	-0.0025	-2.5 to 2.5	Pass
			HV	0.452	0.0005	-2.5 to 2.5	Pass
		-30	NV	-3.648	-0.0044	-2.5 to 2.5	Pass
		-20	NV	2.260	0.0027	-2.5 to 2.5	Pass
		-10	NV	-2.292	-0.0028	-2.5 to 2.5	Pass
		0	NV	1.517	0.0018	-2.5 to 2.5	Pass
		10	NV	1.033	0.0013	-2.5 to 2.5	Pass
		30	NV	-4.746	-0.0058	-2.5 to 2.5	Pass
		40	NV	-3.229	-0.0039	-2.5 to 2.5	Pass
		50	NV	-5.133	-0.0062	-2.5 to 2.5	Pass
	836.6	20	LV	7.458	0.0089	-2.5 to 2.5	Pass
			NV	1.324	0.0016	-2.5 to 2.5	Pass
			HV	3.584	0.0043	-2.5 to 2.5	Pass
		-30	NV	1.808	0.0022	-2.5 to 2.5	Pass
		-20	NV	1.937	0.0023	-2.5 to 2.5	Pass
		-10	NV	3.487	0.0042	-2.5 to 2.5	Pass
		0	NV	5.263	0.0063	-2.5 to 2.5	Pass
		10	NV	4.326	0.0052	-2.5 to 2.5	Pass
		30	NV	8.039	0.0096	-2.5 to 2.5	Pass
		40	NV	-1.291	-0.0015	-2.5 to 2.5	Pass
		50	NV	-2.777	-0.0033	-2.5 to 2.5	Pass
	848.8	20	LV	1.033	0.0012	-2.5 to 2.5	Pass
			NV	-1.517	-0.0018	-2.5 to 2.5	Pass
			HV	-3.164	-0.0037	-2.5 to 2.5	Pass
		-30	NV	-8.911	-0.0105	-2.5 to 2.5	Pass
		-20	NV	2.228	0.0026	-2.5 to 2.5	Pass
		-10	NV	-6.554	-0.0077	-2.5 to 2.5	Pass
		0	NV	-3.164	-0.0037	-2.5 to 2.5	Pass
		10	NV	2.421	0.0029	-2.5 to 2.5	Pass
		30	NV	-5.618	-0.0066	-2.5 to 2.5	Pass
		40	NV	-5.101	-0.0060	-2.5 to 2.5	Pass
		50	NV	-9.137	-0.0108	-2.5 to 2.5	Pass
EGPRS	824.2	20	LV	0.581	0.0007	-2.5 to 2.5	Pass
			NV	1.388	0.0017	-2.5 to 2.5	Pass
			HV	0.549	0.0007	-2.5 to 2.5	Pass
		-30	NV	-1.582	-0.0019	-2.5 to 2.5	Pass
		-20	NV	-1.033	-0.0013	-2.5 to 2.5	Pass
		-10	NV	3.584	0.0043	-2.5 to 2.5	Pass
		0	NV	0.549	0.0007	-2.5 to 2.5	Pass
		10	NV	0.161	0.0002	-2.5 to 2.5	Pass
		30	NV	4.165	0.0051	-2.5 to 2.5	Pass
		40	NV	-1.937	-0.0024	-2.5 to 2.5	Pass
		50	NV	2.712	0.0033	-2.5 to 2.5	Pass
	836.6	20	LV	-2.131	-0.0025	-2.5 to 2.5	Pass
			NV	-3.099	-0.0037	-2.5 to 2.5	Pass

			HV	1.873	0.0022	-2.5 to 2.5	Pass
		-30	NV	4.972	0.0059	-2.5 to 2.5	Pass
		-20	NV	5.327	0.0064	-2.5 to 2.5	Pass
		-10	NV	-4.778	-0.0057	-2.5 to 2.5	Pass
		0	NV	-1.421	-0.0017	-2.5 to 2.5	Pass
		10	NV	-0.710	-0.0008	-2.5 to 2.5	Pass
		30	NV	4.068	0.0049	-2.5 to 2.5	Pass
		40	NV	-1.776	-0.0021	-2.5 to 2.5	Pass
		50	NV	-4.811	-0.0058	-2.5 to 2.5	Pass
	848.8	20	LV	-0.355	-0.0004	-2.5 to 2.5	Pass
			NV	-0.291	-0.0003	-2.5 to 2.5	Pass
			HV	4.488	0.0053	-2.5 to 2.5	Pass
		-30	NV	1.808	0.0021	-2.5 to 2.5	Pass
		-20	NV	3.551	0.0042	-2.5 to 2.5	Pass
		-10	NV	3.390	0.0040	-2.5 to 2.5	Pass
		0	NV	-4.811	-0.0057	-2.5 to 2.5	Pass
		10	NV	-2.131	-0.0025	-2.5 to 2.5	Pass
		30	NV	-0.323	-0.0004	-2.5 to 2.5	Pass
		40	NV	-2.034	-0.0024	-2.5 to 2.5	Pass
		50	NV	3.616	0.0043	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 GSM850_OBW

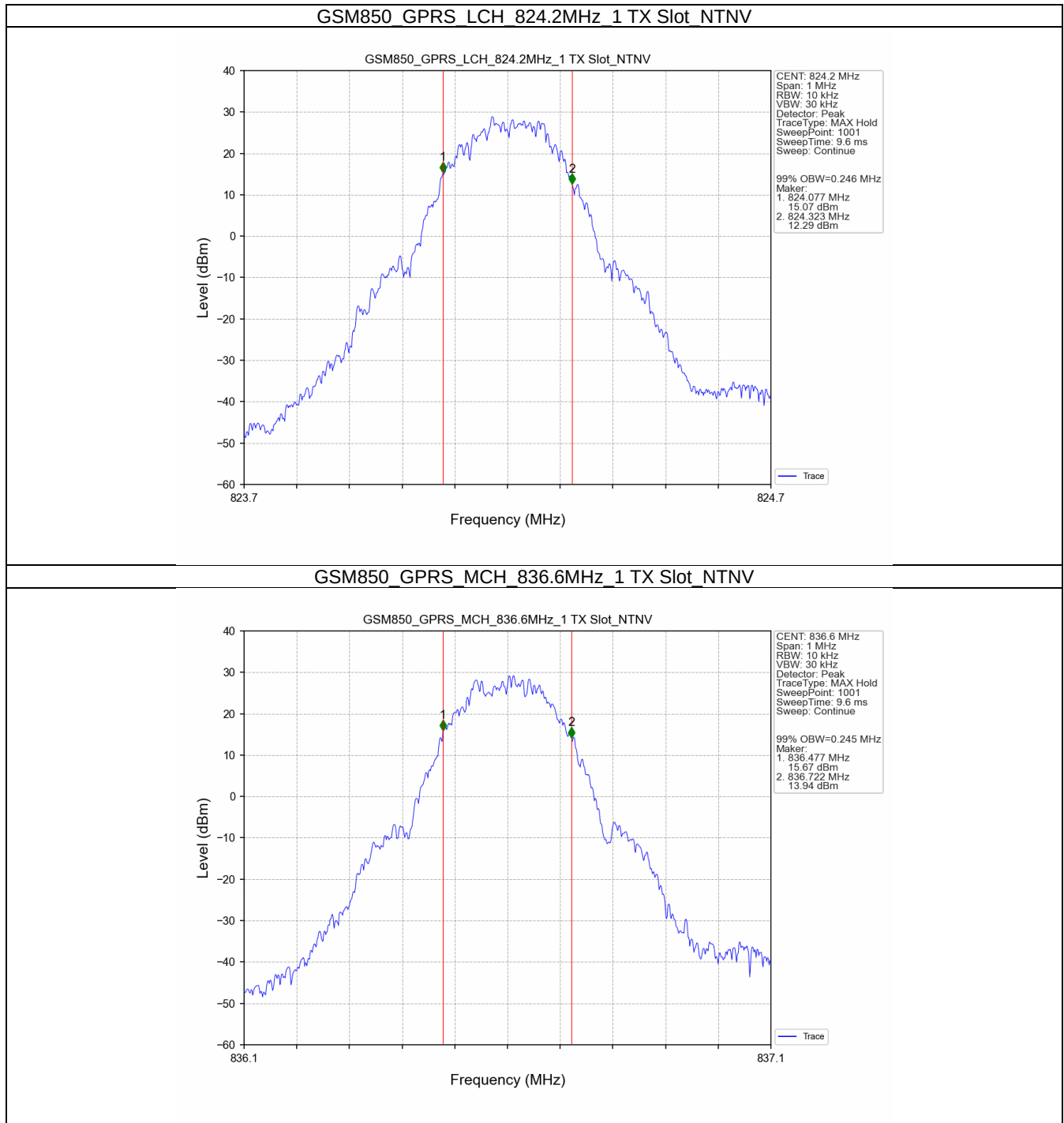
Band: GSM850						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	824.2	0.246	/	Pass
			836.6	0.245	/	Pass
			848.8	0.248	/	Pass
	EGPRS	1 TX Slot	824.2	0.236	/	Pass
			836.6	0.253	/	Pass
			848.8	0.231	/	Pass

3.1.2 GSM850_XDB

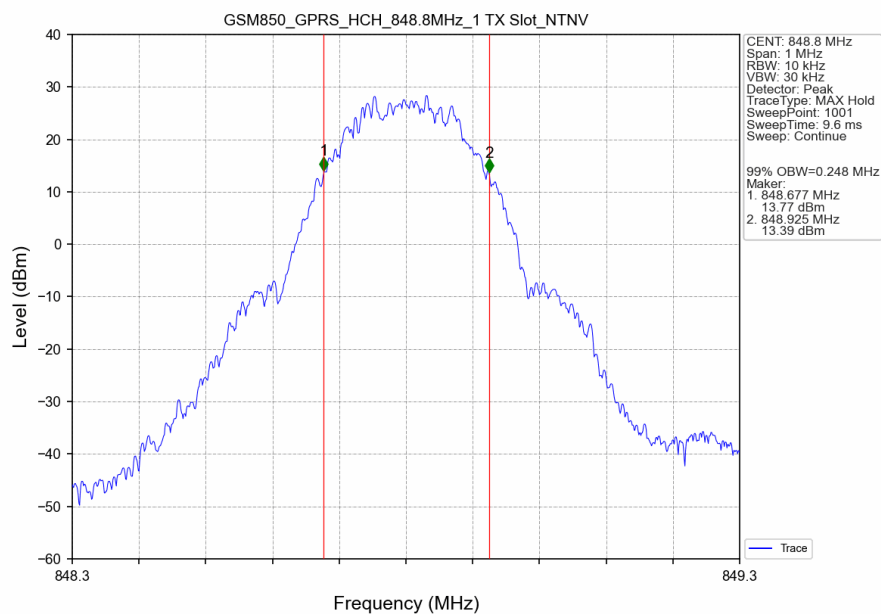
Band: GSM850						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	824.2	0.321	/	Pass
			836.6	0.317	/	Pass
			848.8	0.319	/	Pass
	EGPRS	1 TX Slot	824.2	0.281	/	Pass
			836.6	0.331	/	Pass
			848.8	0.280	/	Pass

3.2 Test Graph

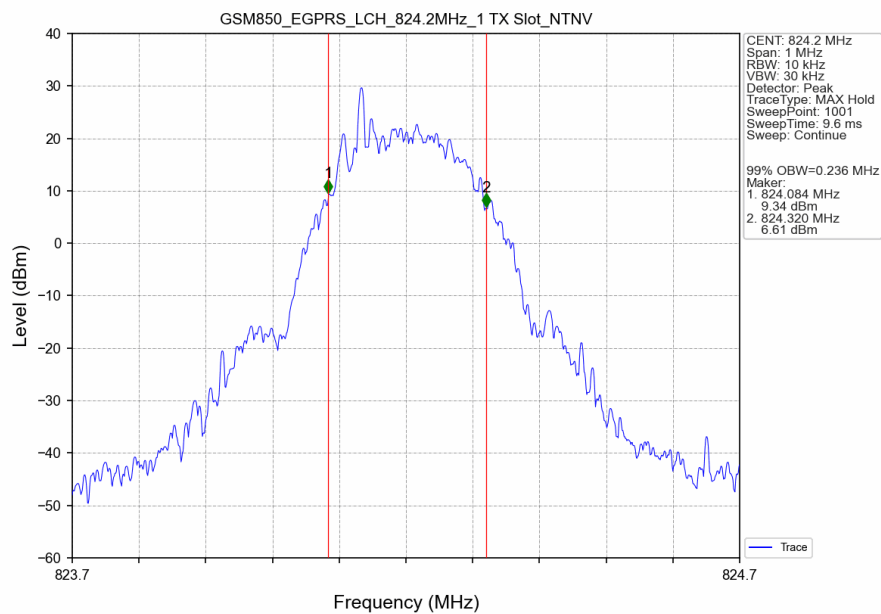
3.2.1 GSM850_OBW



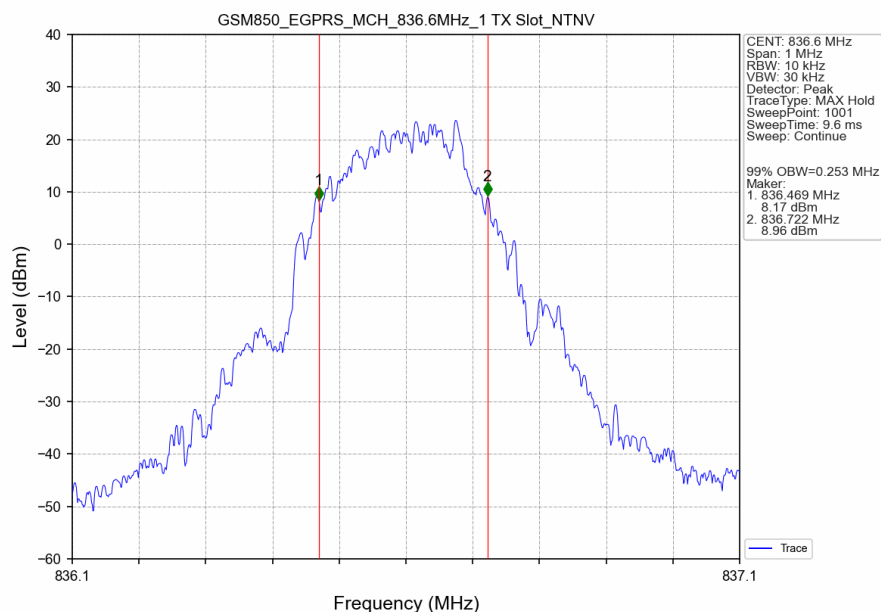
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



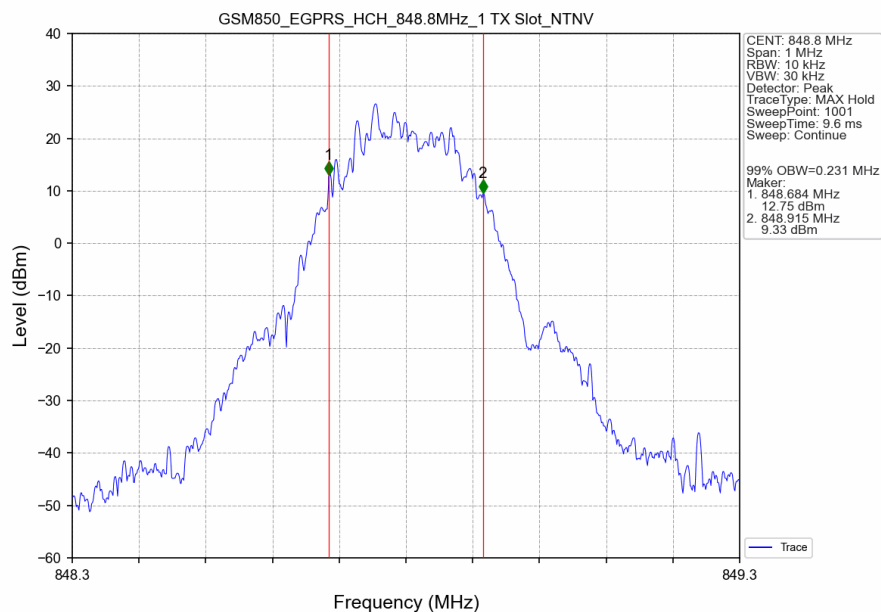
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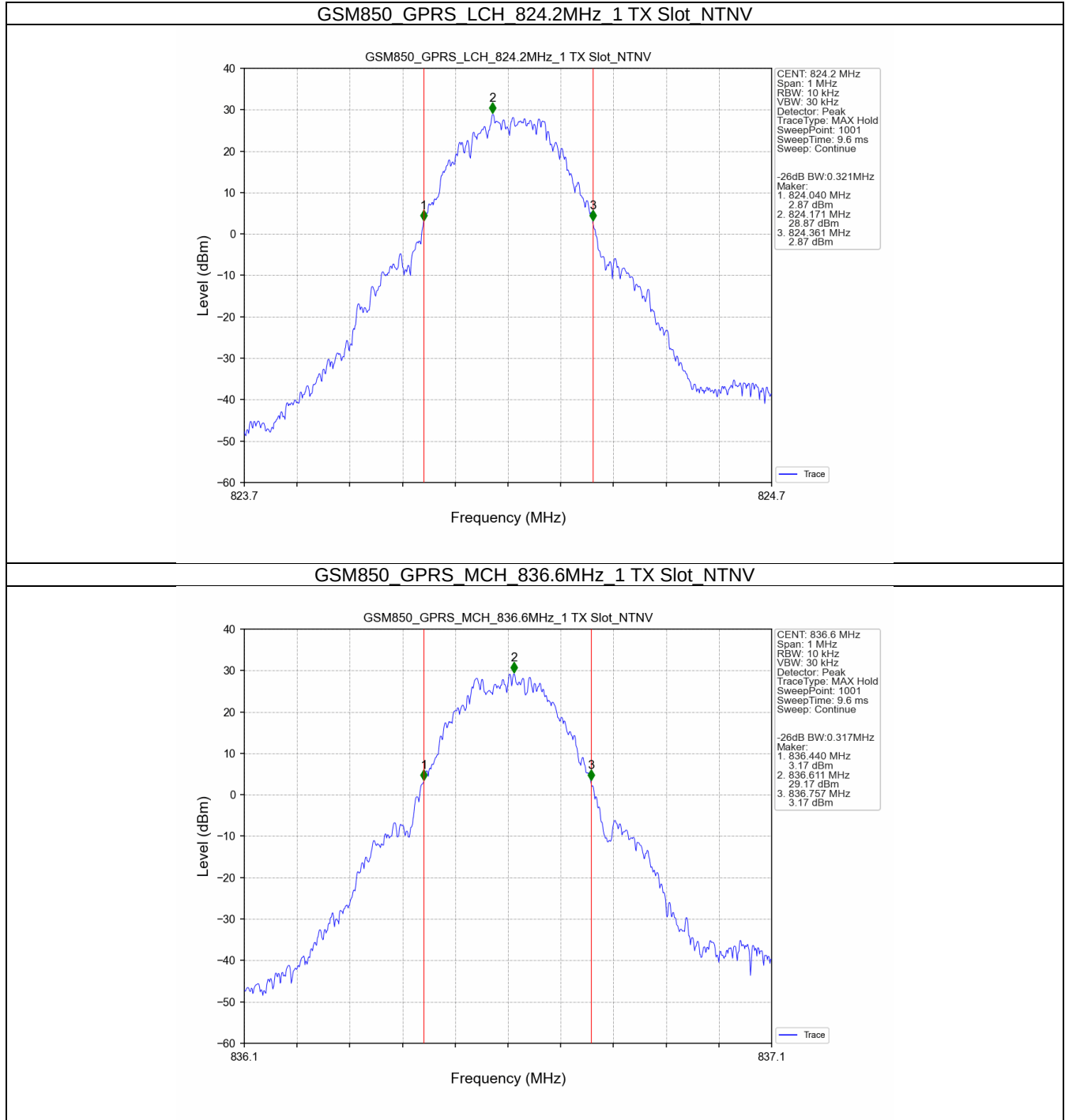
GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTV



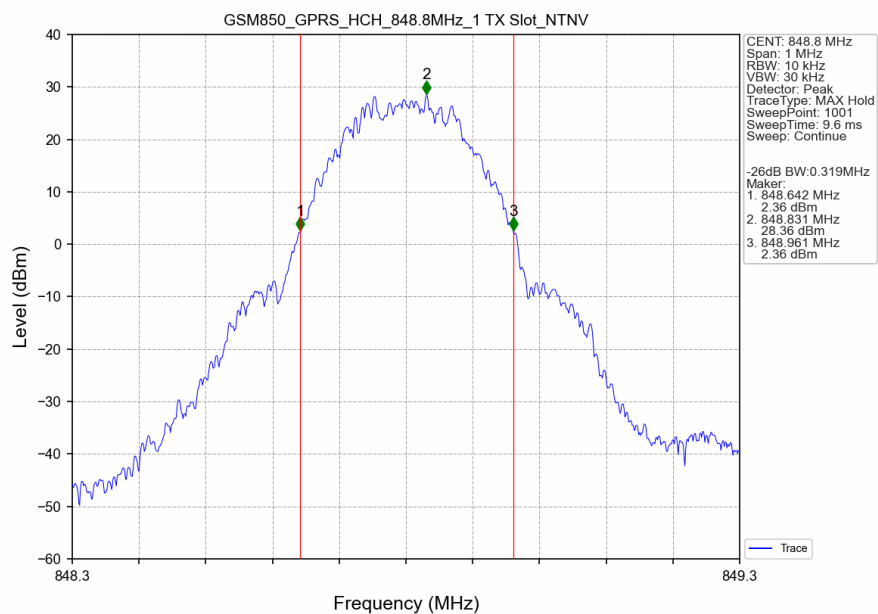
GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTV



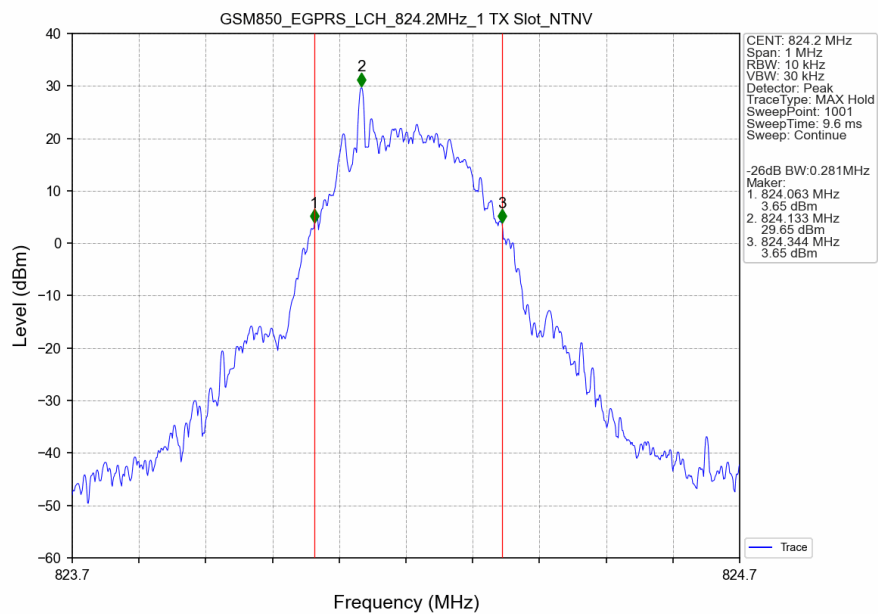
3.2.2 GSM850_XDB



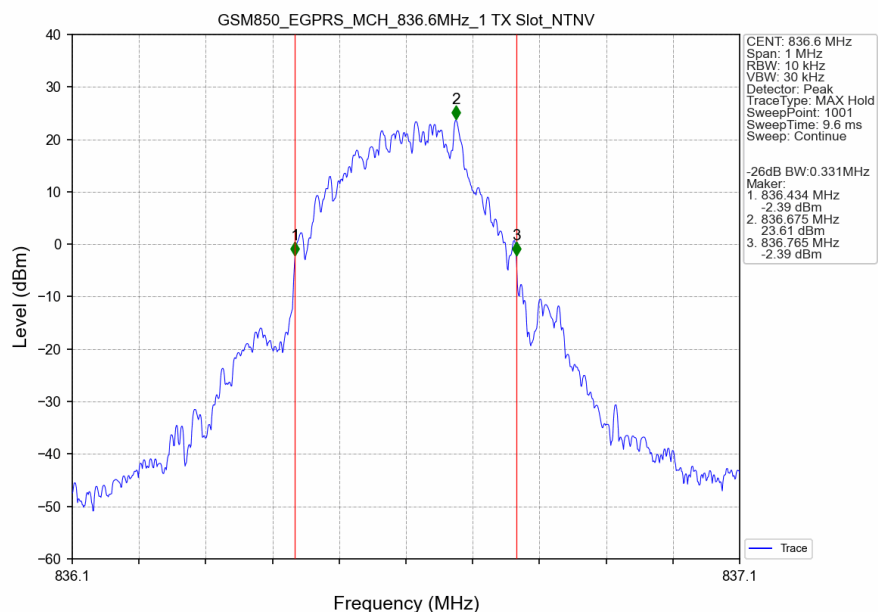
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



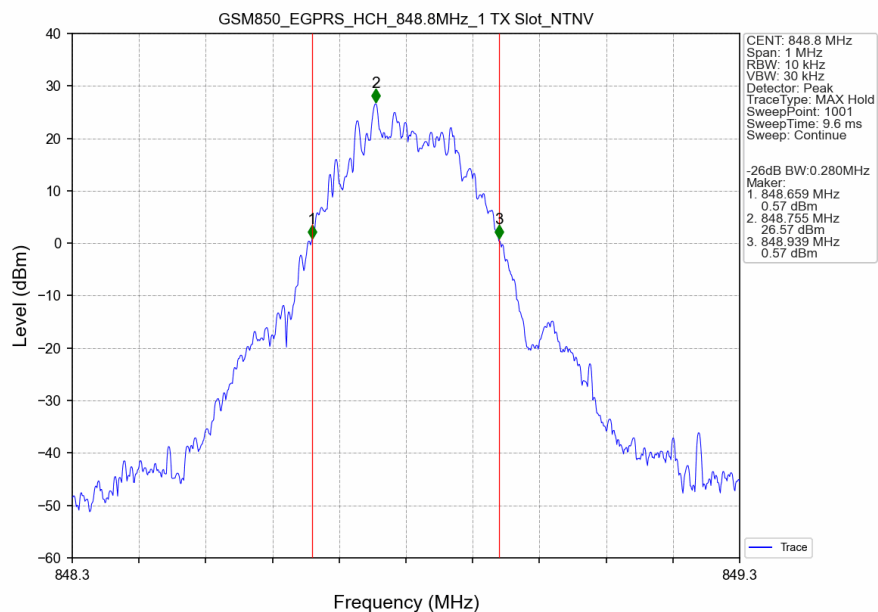
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GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTV



GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTV





4. Peak-Average Ratio

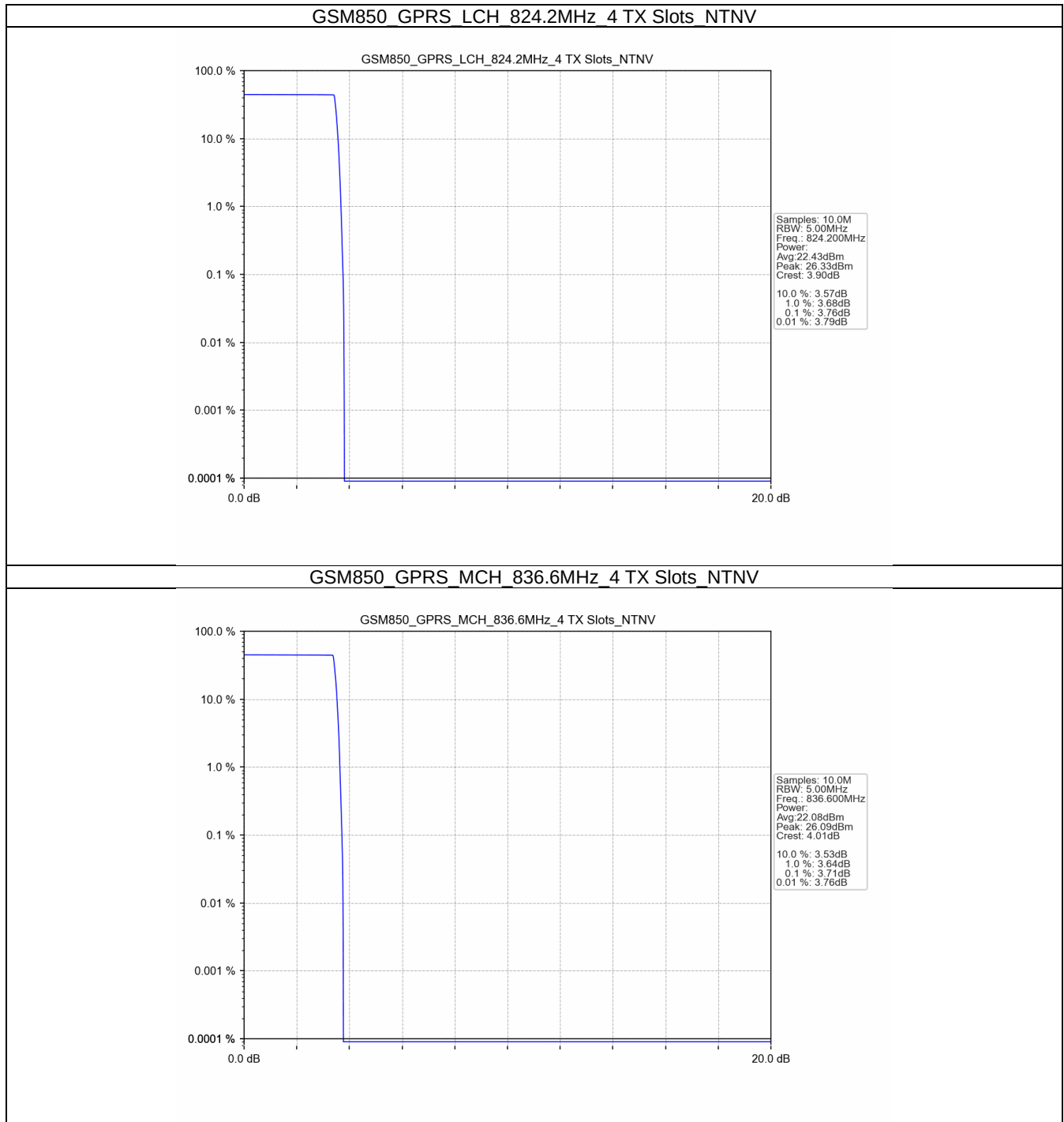
4.1 Test Result

4.1.1 GSM850

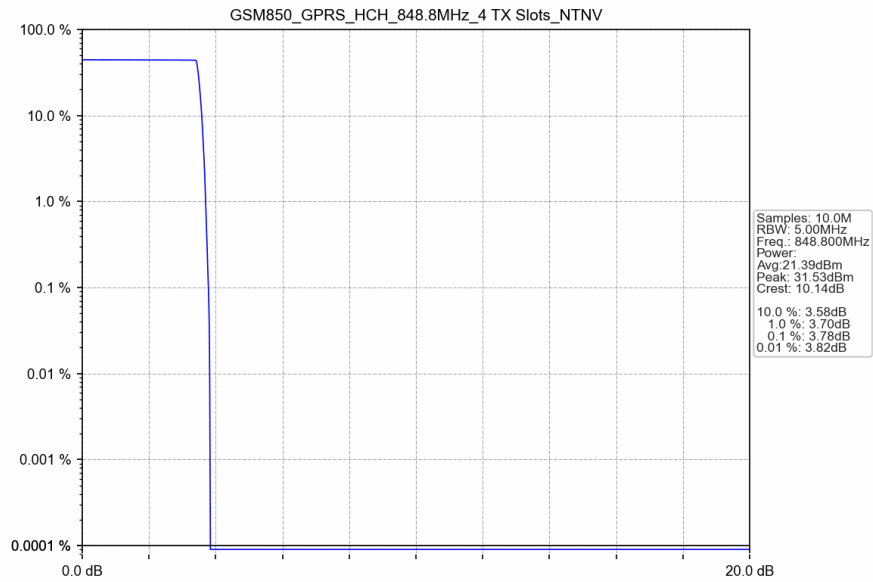
Band: GSM850						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	824.2	3.76	<=13	Pass
			836.6	3.71	<=13	Pass
			848.8	3.78	<=13	Pass
	EGPRS	4 TX Slots	824.2	10.48	<=13	Pass
			836.6	10.32	<=13	Pass
			848.8	10.29	<=13	Pass

4.2 Test Graph

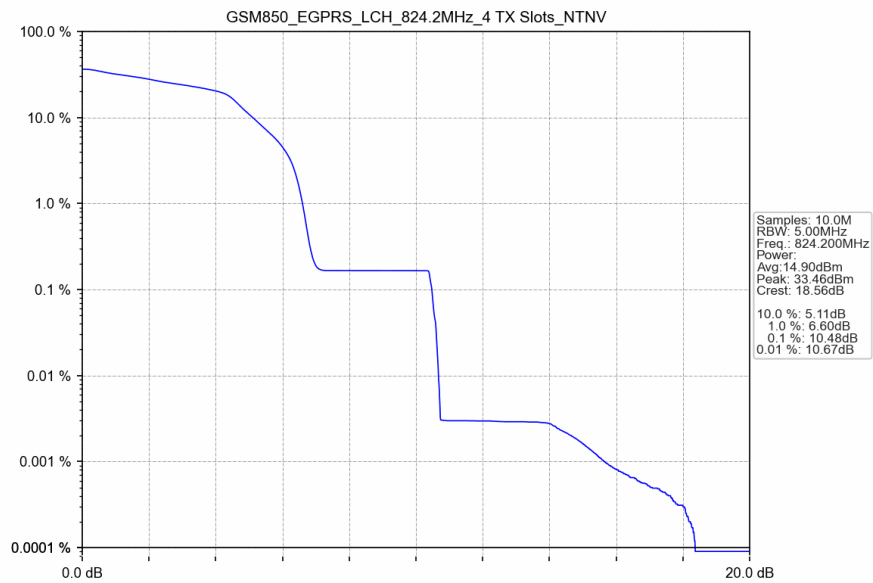
4.2.1 GSM850



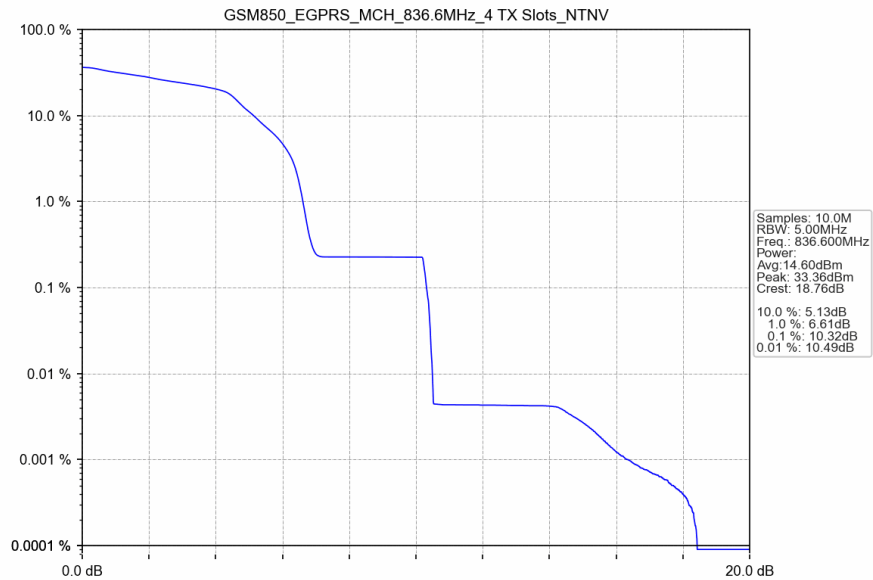
GSM850_GPRS_HCH_848.8MHz_4 TX Slots_NTNV



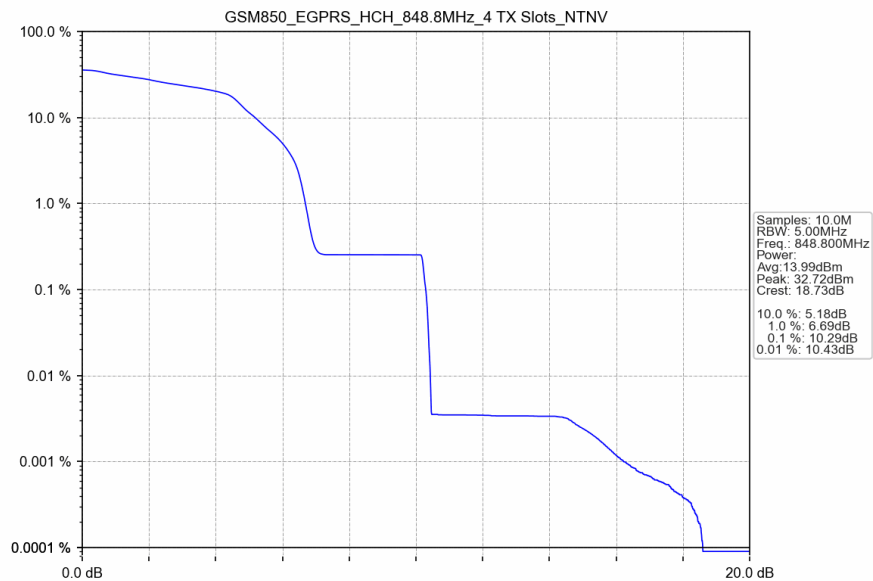
GSM850_EGPRS_LCH_824.2MHz_4 TX Slots_NTNV



GSM850_EGPRS_MCH_836.6MHz_4 TX Slots_NTNV



GSM850_EGPRS_HCH_848.8MHz_4 TX Slots_NTNV





5. Spurious Emission

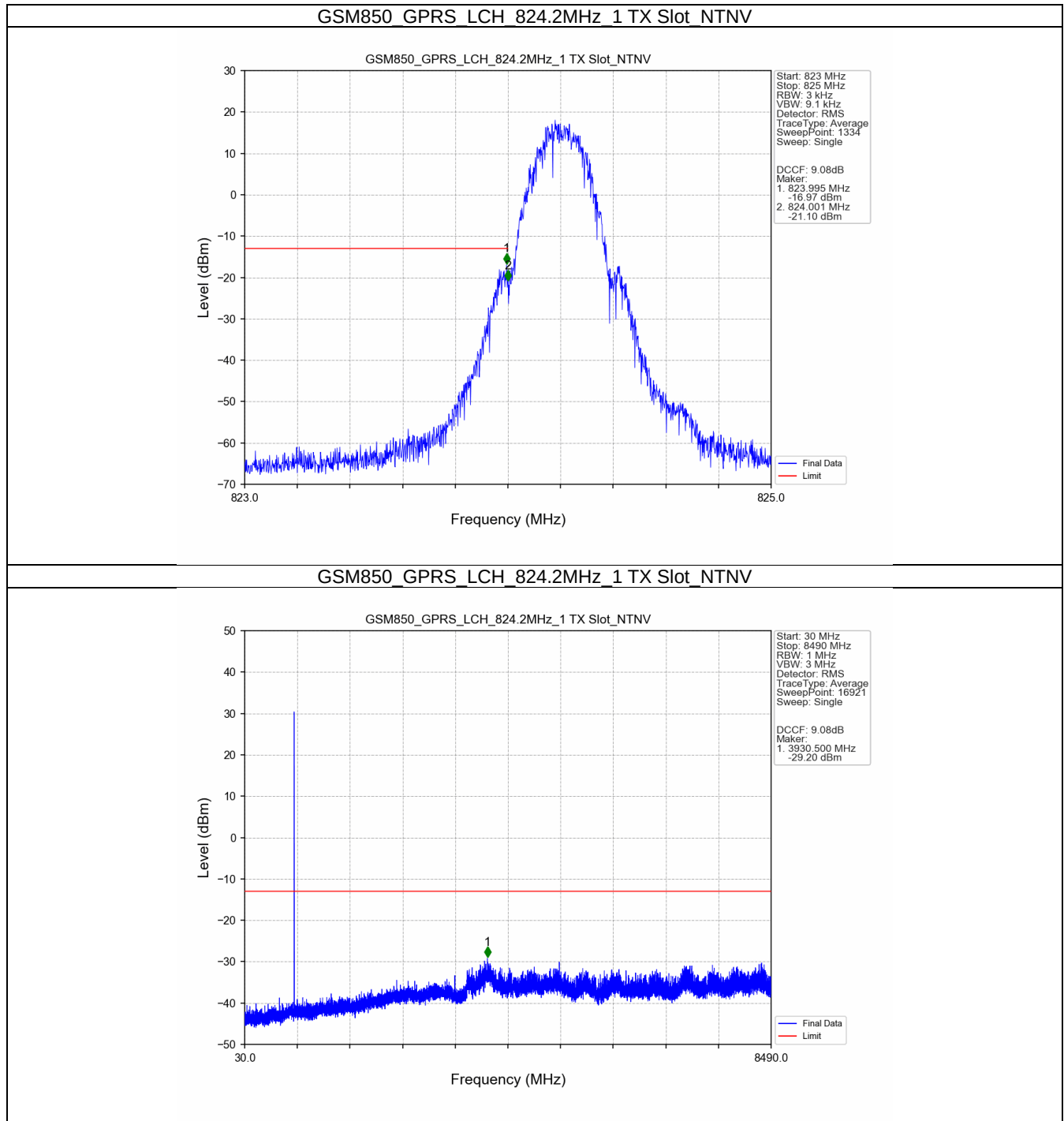
5.1 Test Result

5.1.1 GSM850

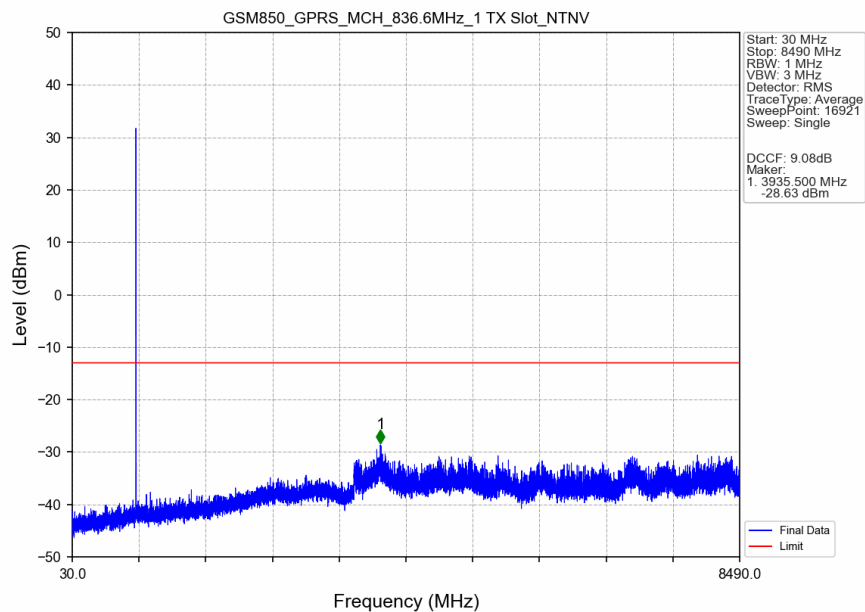
Band: GSM850					
ENV	Mode		Frequency (MHz)	Spurious Emission	
	Network	Subset		Result	Limit
NTNV	GPRS	1 TX Slot	824.2	Refer To Test Graph	Pass
			836.6	Refer To Test Graph	Pass
			848.8	Refer To Test Graph	Pass
	EGPRS	1 TX Slot	824.2	Refer To Test Graph	Pass
			836.6	Refer To Test Graph	Pass
			848.8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

5.2 Test Graph

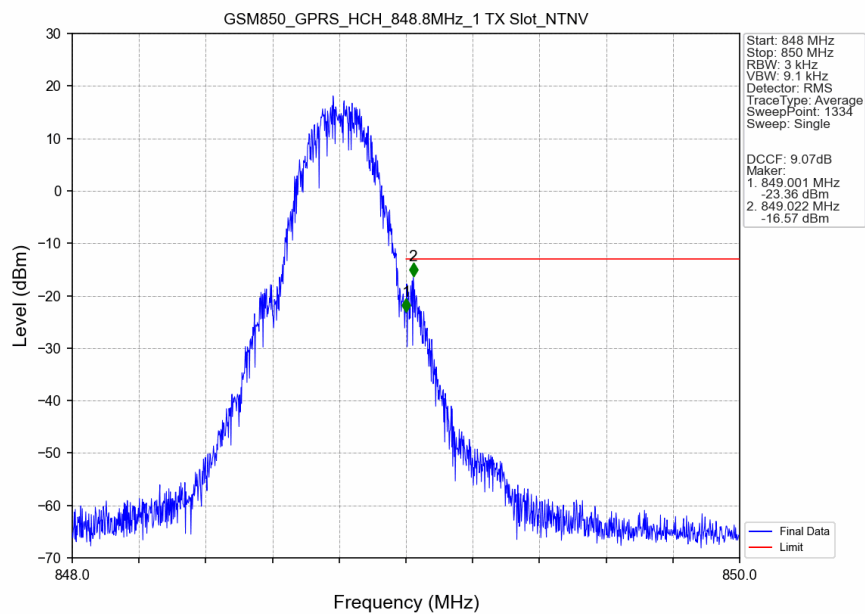
5.2.1 GSM850



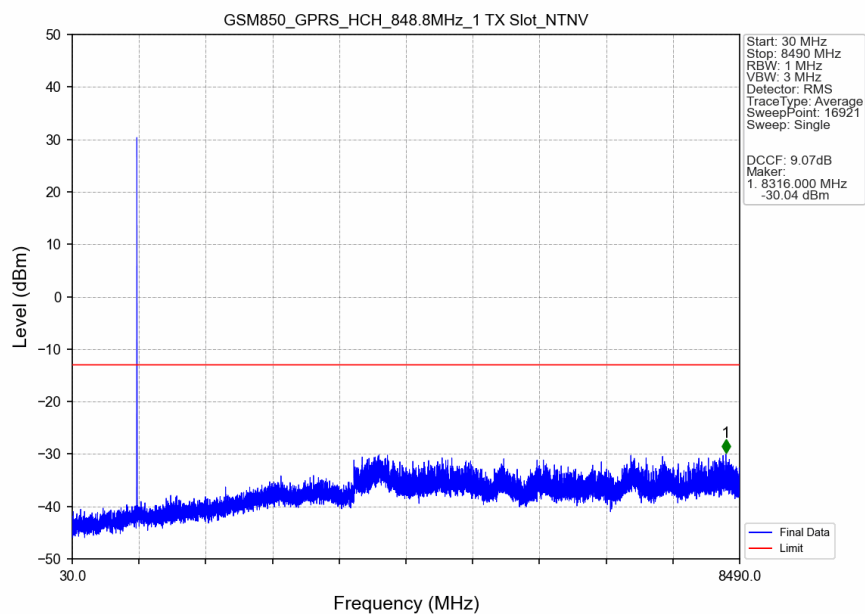
GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



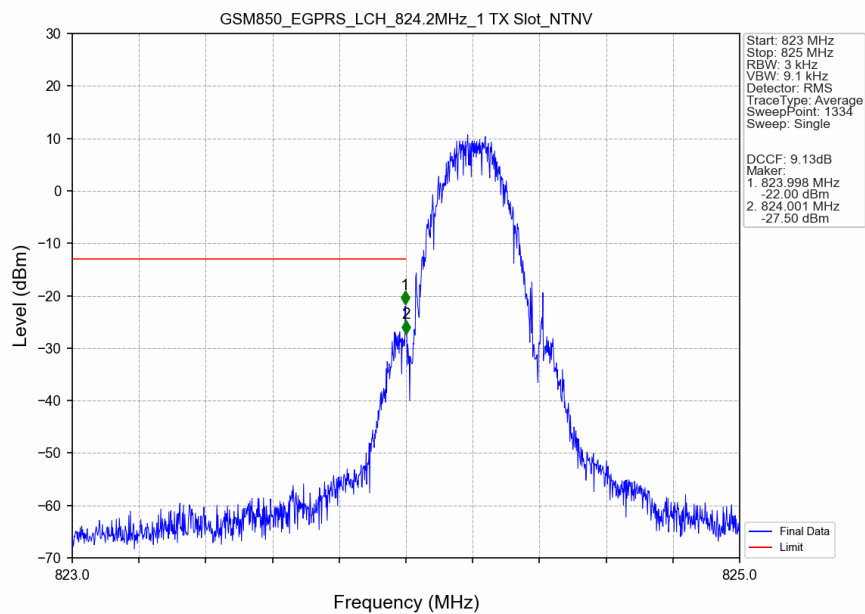
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



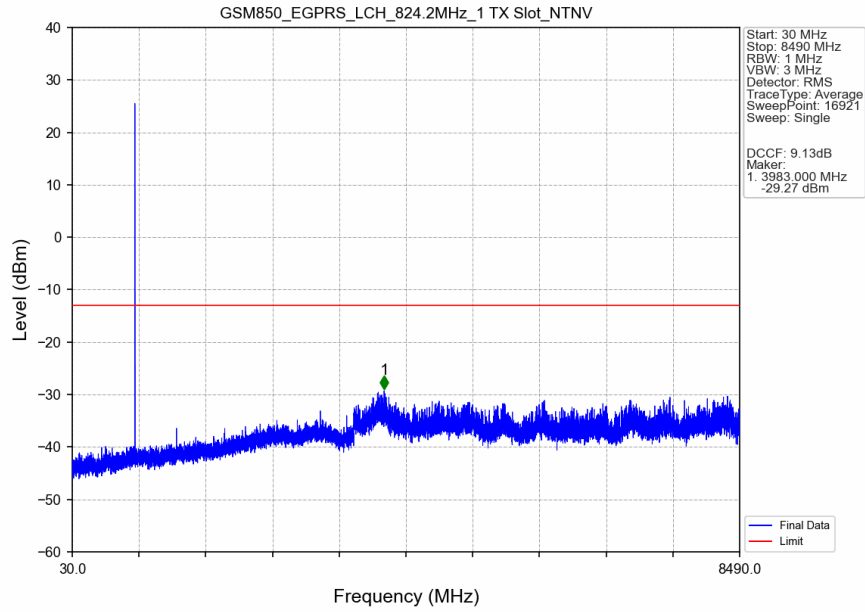
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



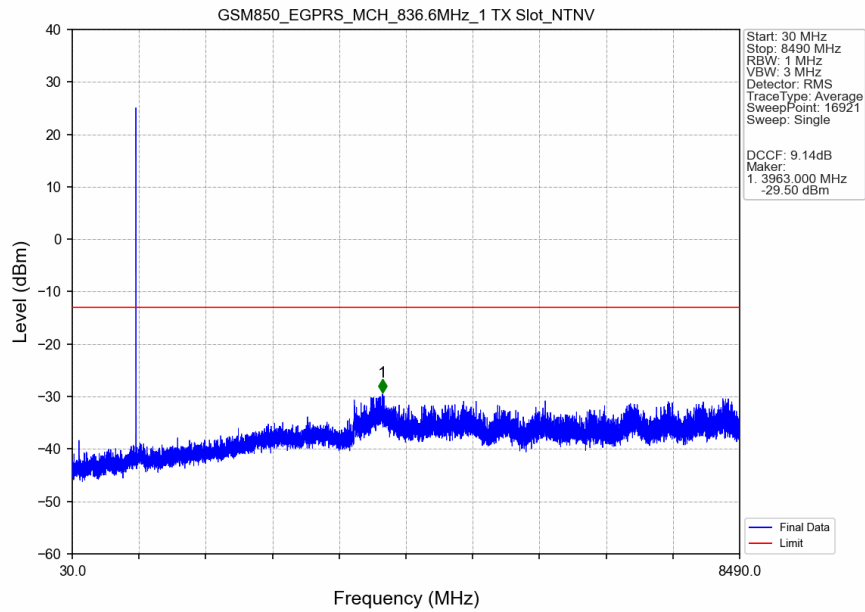
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



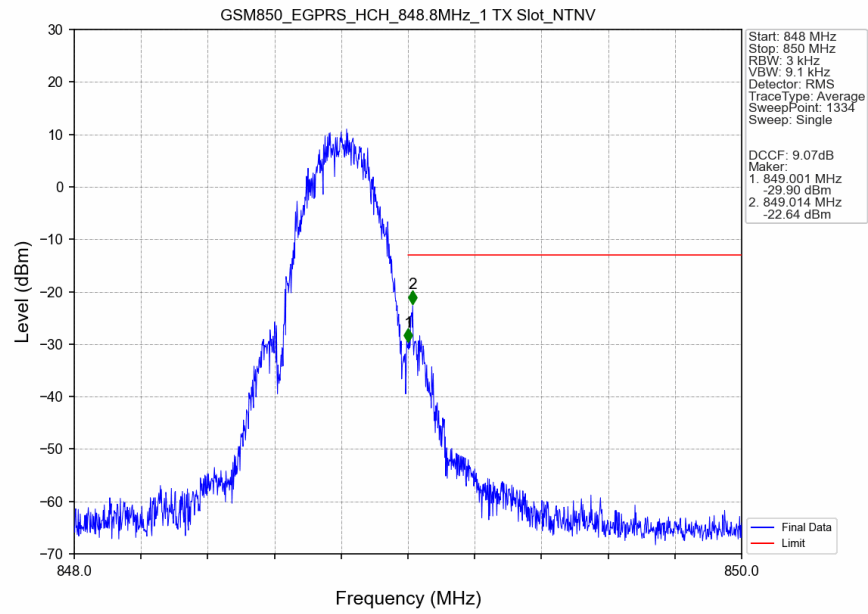
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



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

