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	33.88	-2.82	28.91	<=38.45	Pass
		2 TX Slots	824.2	32.78	-2.82	27.81	<=38.45	Pass
		3 TX Slots	824.2	30.65	-2.82	25.68	<=38.45	Pass
		4 TX Slots	824.2	28.64	-2.82	23.67	<=38.45	Pass
		1 TX Slot	836.6	33.95	-2.82	28.98	<=38.45	Pass
		2 TX Slots	836.6	32.65	-2.82	27.68	<=38.45	Pass
		3 TX Slots	836.6	30.51	-2.82	25.54	<=38.45	Pass
		4 TX Slots	836.6	28.53	-2.82	23.56	<=38.45	Pass
		1 TX Slot	848.8	33.86	-2.82	28.89	<=38.45	Pass
		2 TX Slots	848.8	32.44	-2.82	27.47	<=38.45	Pass
		3 TX Slots	848.8	30.43	-2.82	25.46	<=38.45	Pass
		4 TX Slots	848.8	28.33	-2.82	23.36	<=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	3.40	0.129	0.0002	-2.5 to 2.5	Pass
			3.70	2.002	0.0024	-2.5 to 2.5	Pass
			4.20	2.421	0.0029	-2.5 to 2.5	Pass
		-30	3.70	0.904	0.0011	-2.5 to 2.5	Pass
		-20	3.70	1.905	0.0023	-2.5 to 2.5	Pass
		-10	3.70	0.710	0.0009	-2.5 to 2.5	Pass
		0	3.70	1.517	0.0018	-2.5 to 2.5	Pass
		10	3.70	0.323	0.0004	-2.5 to 2.5	Pass
		30	3.70	3.099	0.0038	-2.5 to 2.5	Pass
		40	3.70	2.454	0.0030	-2.5 to 2.5	Pass
		50	3.70	2.454	0.0030	-2.5 to 2.5	Pass
	836.6	20	3.40	0.646	0.0008	-2.5 to 2.5	Pass
			3.70	2.647	0.0032	-2.5 to 2.5	Pass
			4.20	1.065	0.0013	-2.5 to 2.5	Pass
		-30	3.70	1.808	0.0022	-2.5 to 2.5	Pass
		-20	3.70	-0.743	-0.0009	-2.5 to 2.5	Pass
		-10	3.70	1.873	0.0022	-2.5 to 2.5	Pass
		0	3.70	0.420	0.0005	-2.5 to 2.5	Pass
		10	3.70	1.937	0.0023	-2.5 to 2.5	Pass
		30	3.70	0.452	0.0005	-2.5 to 2.5	Pass
		40	3.70	2.970	0.0036	-2.5 to 2.5	Pass
		50	3.70	1.033	0.0012	-2.5 to 2.5	Pass
	848.8	20	3.40	1.388	0.0016	-2.5 to 2.5	Pass
			3.70	-0.517	-0.0006	-2.5 to 2.5	Pass
			4.20	-1.356	-0.0016	-2.5 to 2.5	Pass
		-30	3.70	1.130	0.0013	-2.5 to 2.5	Pass
		-20	3.70	-0.936	-0.0011	-2.5 to 2.5	Pass
		-10	3.70	1.324	0.0016	-2.5 to 2.5	Pass
		0	3.70	-1.582	-0.0019	-2.5 to 2.5	Pass
		10	3.70	1.195	0.0014	-2.5 to 2.5	Pass
		30	3.70	-0.032	0.0000	-2.5 to 2.5	Pass
		40	3.70	0.517	0.0006	-2.5 to 2.5	Pass
		50	3.70	0.097	0.0001	-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	0.237	/	Pass
			836.6	0.233	/	Pass
			848.8	0.236	/	Pass

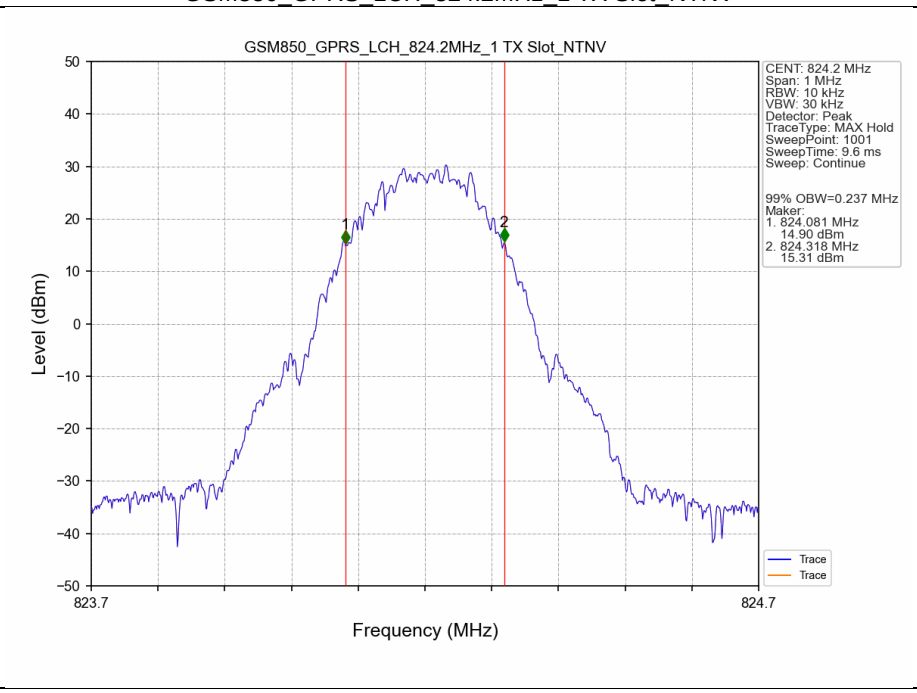
3.1.2 GSM850_XDB

Band: GSM850						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	824.2	0.312	/	Pass
			836.6	0.296	/	Pass
			848.8	0.299	/	Pass

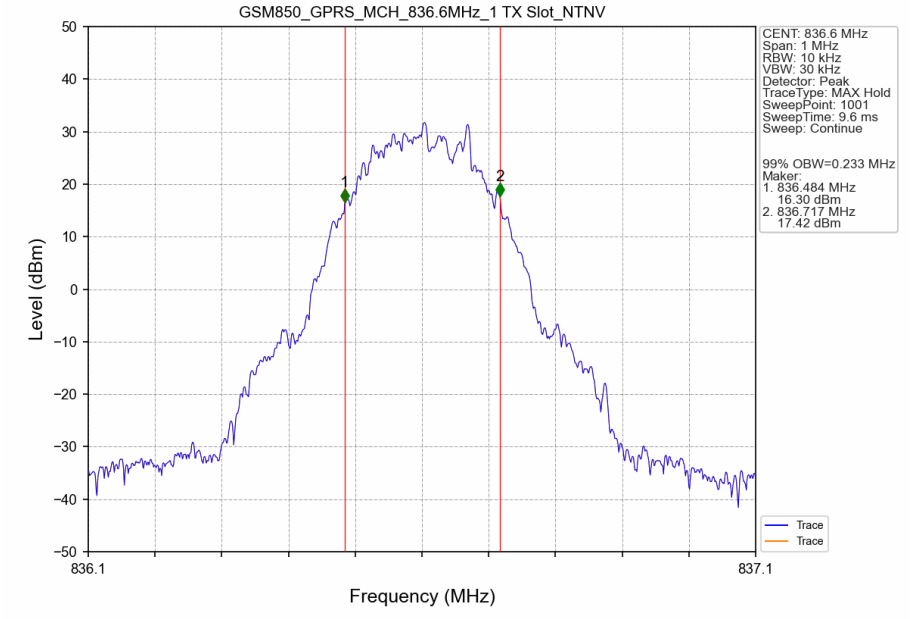
3.2 Test Graph

3.2.1 GSM850_OBW

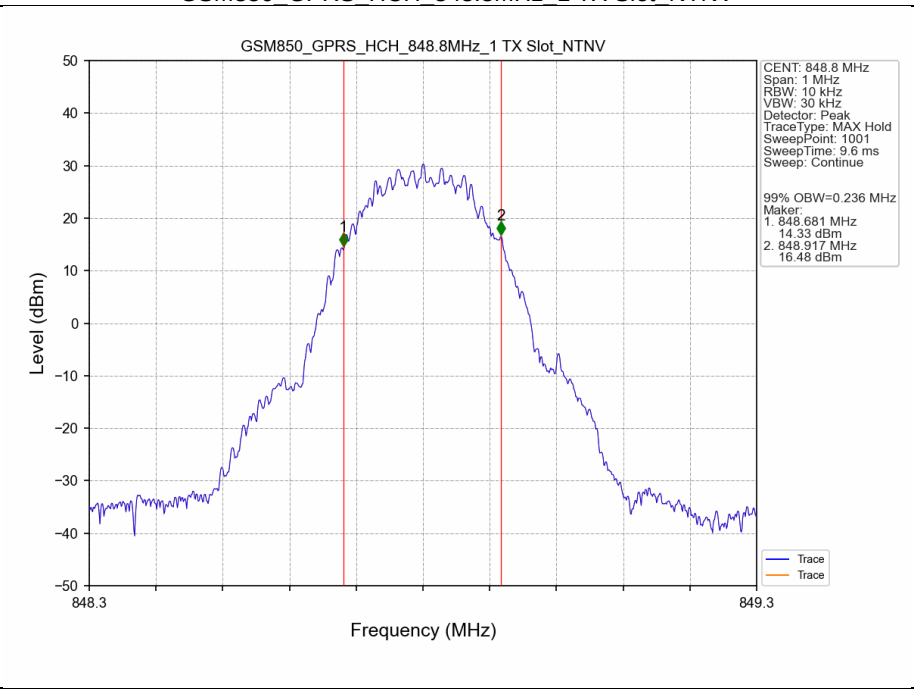
GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV

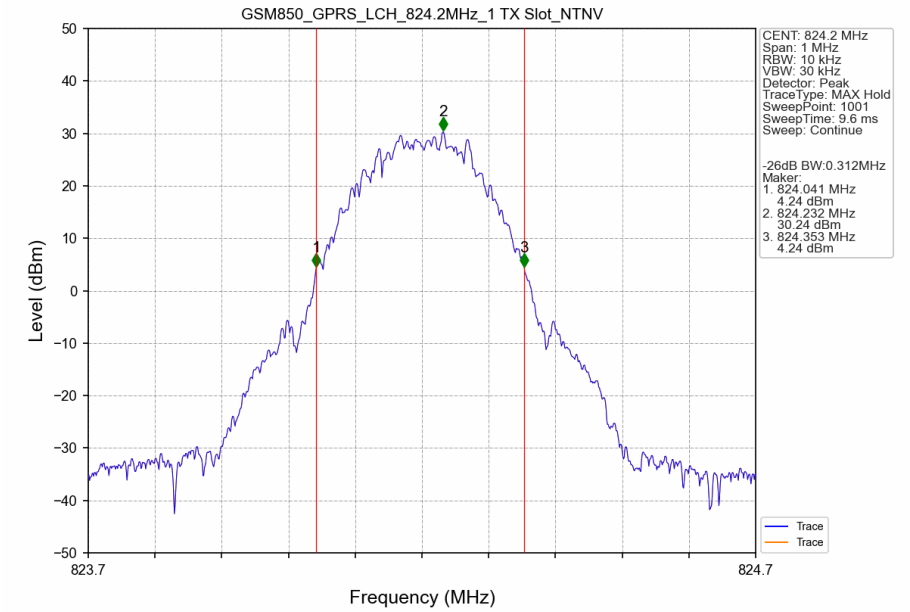


GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV

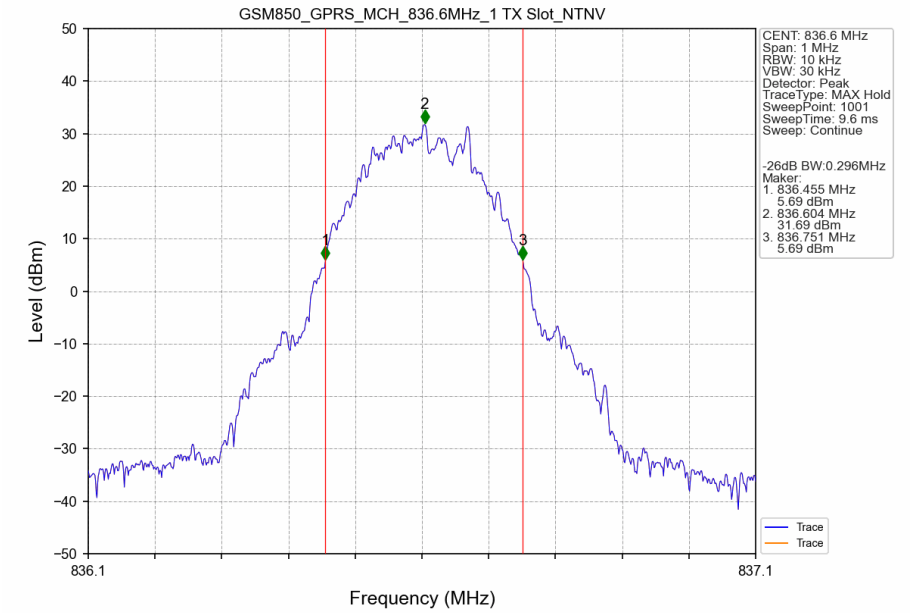


3.2.2 GSM850_XDB

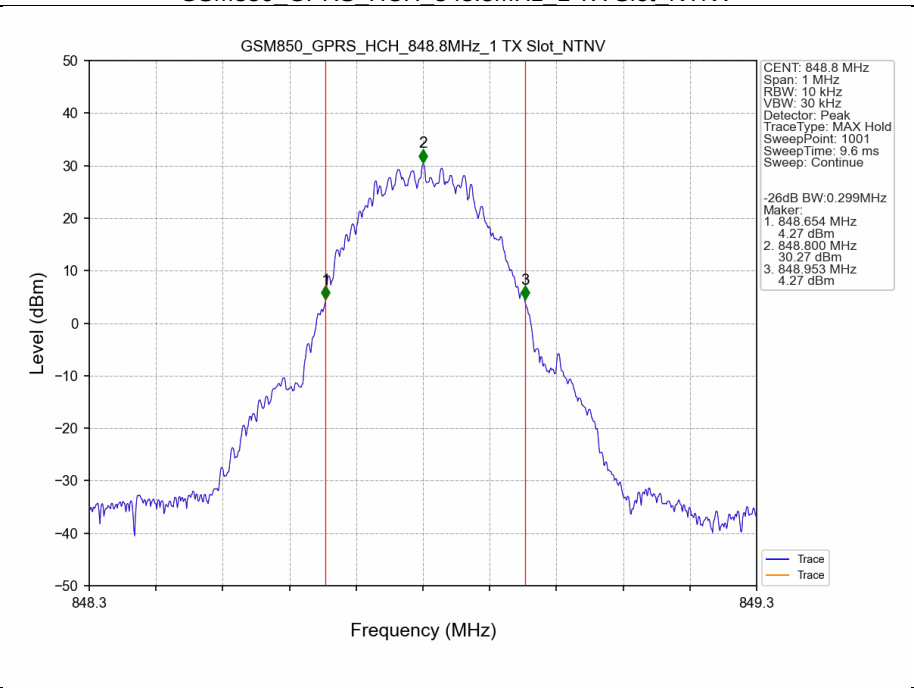
GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



4. Peak-Average Ratio

4.1 Test Result

4.1.1 GSM850

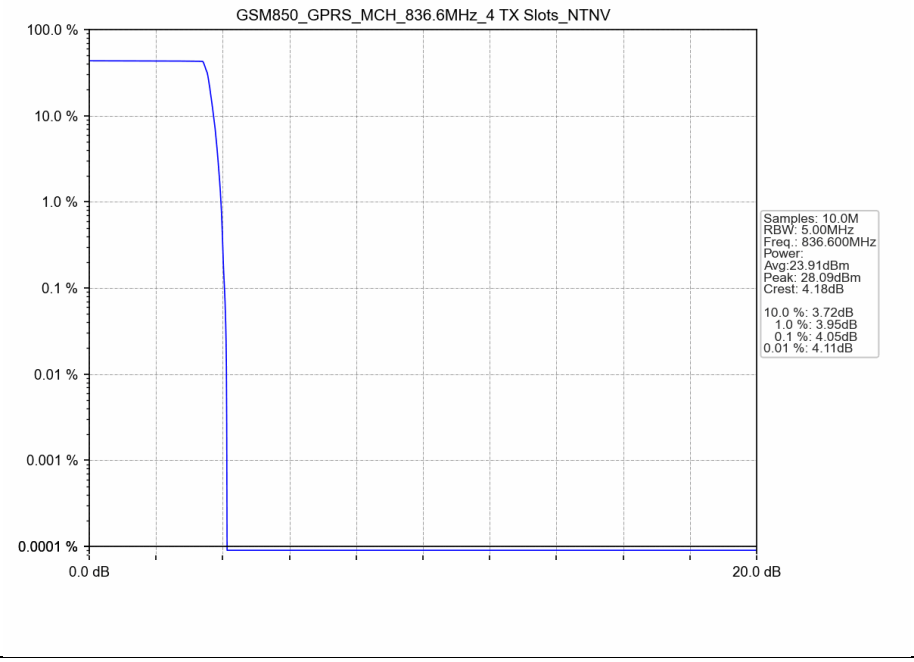
Band: GSM850						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	824.2	3.98	<=13	Pass
			836.6	4.05	<=13	Pass
			848.8	3.89	<=13	Pass

4.2 Test Graph

4.2.1 GSM850

GSM850_GPRS_LCH_824.2MHz_4 TX Slots_NTNV

GSM850_GPRS_MCH_836.6MHz_4 TX Slots_NTNV



GSM850_GPRS_HCH_848.8MHz_4 TX Slots_NTNV

5. Spurious Emission

5.1 Test Result

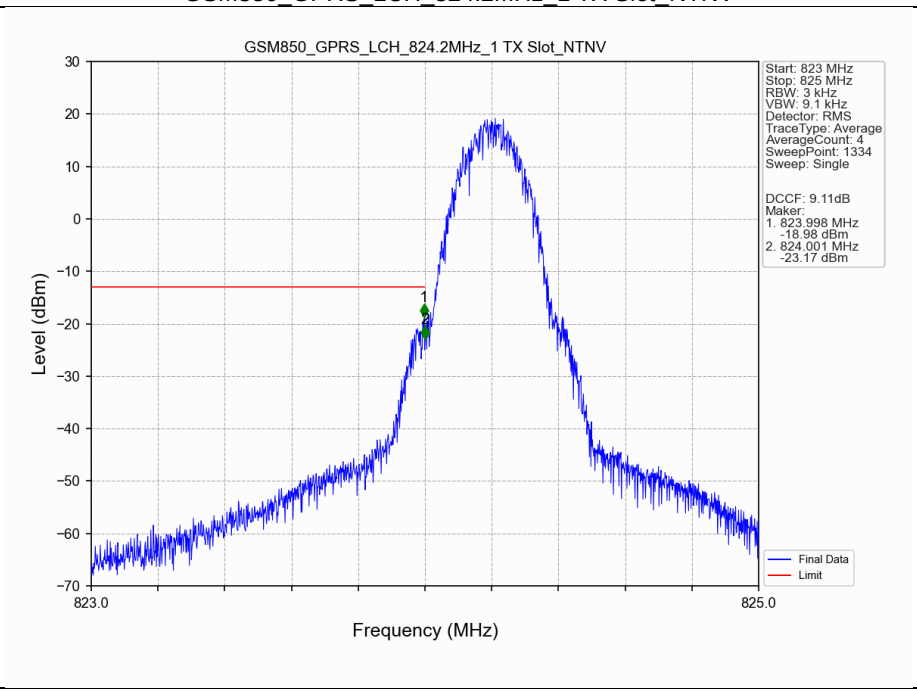
5.1.1 GSM850

Band: GSM850						
ENV	Mode		Frequency (MHz)	Spurious Emission		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

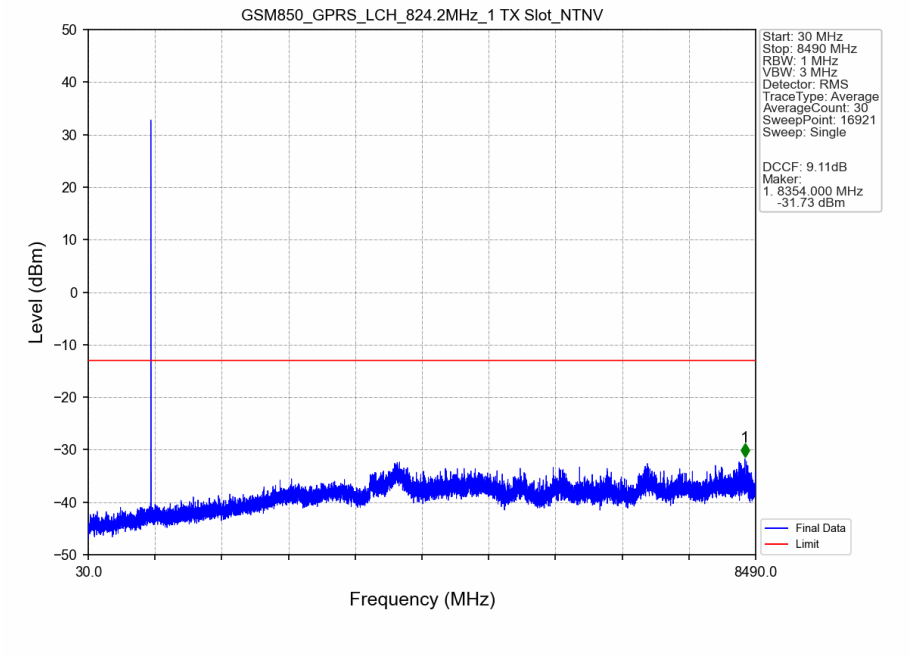
5.2 Test Graph

5.2.1 GSM850

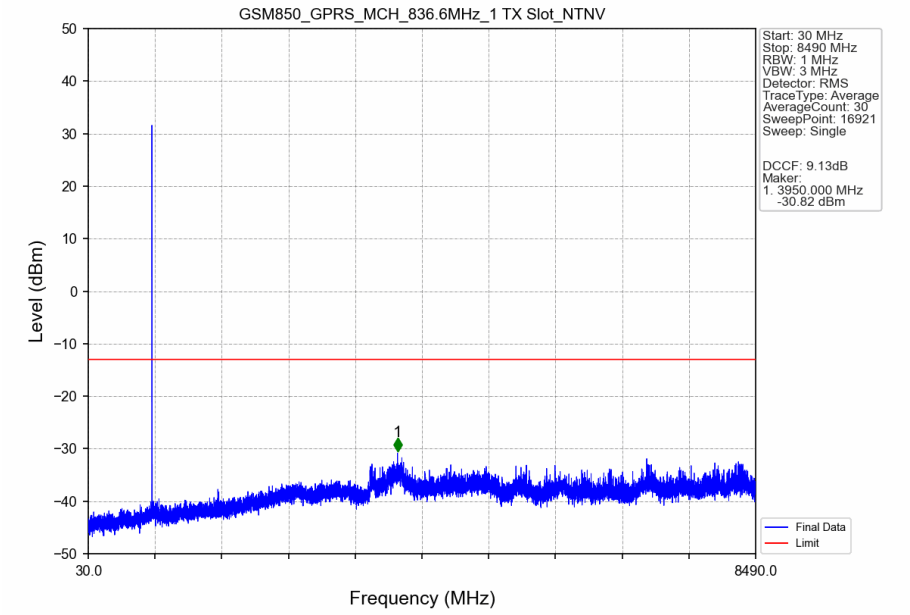
GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



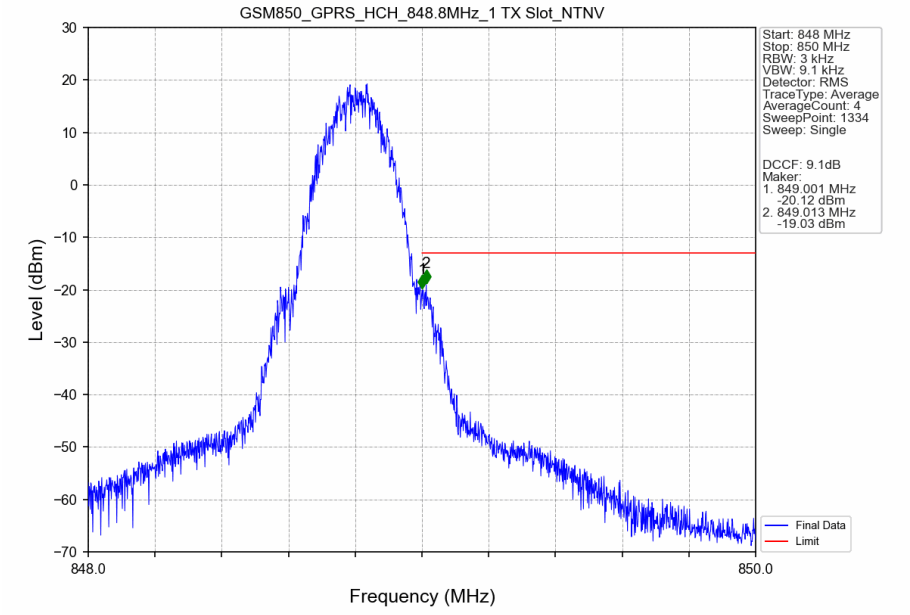
GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



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