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	33.13	-1.24	29.74	<=38.45	Pass
		2 TX Slots	824.2	32.11	-1.24	28.72	<=38.45	Pass
		3 TX Slots	824.2	30.22	-1.24	26.83	<=38.45	Pass
		4 TX Slots	824.2	29.24	-1.24	25.85	<=38.45	Pass
		1 TX Slot	836.6	33.08	-1.24	29.69	<=38.45	Pass
		2 TX Slots	836.6	32.09	-1.24	28.70	<=38.45	Pass
		3 TX Slots	836.6	30.20	-1.24	26.81	<=38.45	Pass
		4 TX Slots	836.6	29.25	-1.24	25.86	<=38.45	Pass
		1 TX Slot	848.8	33.19	-1.24	29.80	<=38.45	Pass
		2 TX Slots	848.8	32.15	-1.24	28.76	<=38.45	Pass
		3 TX Slots	848.8	30.22	-1.24	26.83	<=38.45	Pass
		4 TX Slots	848.8	29.26	-1.24	25.87	<=38.45	Pass
	EGPRS	1 TX Slot	824.2	28.98	-1.24	25.59	<=38.45	Pass
		2 TX Slots	824.2	28.07	-1.24	24.68	<=38.45	Pass
		3 TX Slots	824.2	27.72	-1.24	24.33	<=38.45	Pass
		4 TX Slots	824.2	25.42	-1.24	22.03	<=38.45	Pass
		1 TX Slot	836.6	29.11	-1.24	25.72	<=38.45	Pass
		2 TX Slots	836.6	27.99	-1.24	24.60	<=38.45	Pass
		3 TX Slots	836.6	26.89	-1.24	23.50	<=38.45	Pass
		4 TX Slots	836.6	25.25	-1.24	21.86	<=38.45	Pass
		1 TX Slot	848.8	28.89	-1.24	25.50	<=38.45	Pass
		2 TX Slots	848.8	28.67	-1.24	25.28	<=38.45	Pass
		3 TX Slots	848.8	26.82	-1.24	23.43	<=38.45	Pass
		4 TX Slots	848.8	25.41	-1.24	22.02	<=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	-5.327	-0.0065	-2.5 to 2.5	Pass
			3.60	-1.840	-0.0022	-2.5 to 2.5	Pass
			4.20	-3.035	-0.0037	-2.5 to 2.5	Pass
		-30	3.60	-1.711	-0.0021	-2.5 to 2.5	Pass
		-20	3.60	-5.198	-0.0063	-2.5 to 2.5	Pass
		-10	3.60	-1.647	-0.0020	-2.5 to 2.5	Pass
		0	3.60	-0.936	-0.0011	-2.5 to 2.5	Pass
		10	3.60	-0.387	-0.0005	-2.5 to 2.5	Pass
		30	3.60	2.099	0.0025	-2.5 to 2.5	Pass
		40	3.60	-2.712	-0.0033	-2.5 to 2.5	Pass
		50	3.60	-0.420	-0.0005	-2.5 to 2.5	Pass
	836.6	20	3.40	3.003	0.0036	-2.5 to 2.5	Pass
			3.60	1.033	0.0012	-2.5 to 2.5	Pass
			4.20	-0.484	-0.0006	-2.5 to 2.5	Pass
		-30	3.60	-0.904	-0.0011	-2.5 to 2.5	Pass
		-20	3.60	2.195	0.0026	-2.5 to 2.5	Pass
		-10	3.60	1.776	0.0021	-2.5 to 2.5	Pass
		0	3.60	2.131	0.0025	-2.5 to 2.5	Pass
		10	3.60	5.101	0.0061	-2.5 to 2.5	Pass
		30	3.60	0.032	0.0000	-2.5 to 2.5	Pass
		40	3.60	-1.324	-0.0016	-2.5 to 2.5	Pass
		50	3.60	0.613	0.0007	-2.5 to 2.5	Pass
	848.8	20	3.40	-2.744	-0.0032	-2.5 to 2.5	Pass
			3.60	3.745	0.0044	-2.5 to 2.5	Pass
			4.20	0.581	0.0007	-2.5 to 2.5	Pass
		-30	3.60	-5.327	-0.0063	-2.5 to 2.5	Pass
		-20	3.60	-0.678	-0.0008	-2.5 to 2.5	Pass
		-10	3.60	-1.421	-0.0017	-2.5 to 2.5	Pass
		0	3.60	-8.201	-0.0097	-2.5 to 2.5	Pass
		10	3.60	-2.389	-0.0028	-2.5 to 2.5	Pass
		30	3.60	-0.646	-0.0008	-2.5 to 2.5	Pass
		40	3.60	-2.647	-0.0031	-2.5 to 2.5	Pass
		50	3.60	-0.904	-0.0011	-2.5 to 2.5	Pass
EGPRS	824.2	20	3.40	-0.807	-0.0010	-2.5 to 2.5	Pass
			3.60	-1.550	-0.0019	-2.5 to 2.5	Pass
			4.20	-0.194	-0.0002	-2.5 to 2.5	Pass
		-30	3.60	-4.100	-0.0050	-2.5 to 2.5	Pass
		-20	3.60	-4.649	-0.0056	-2.5 to 2.5	Pass
		-10	3.60	-0.355	-0.0004	-2.5 to 2.5	Pass
		0	3.60	0.936	0.0011	-2.5 to 2.5	Pass
		10	3.60	4.294	0.0052	-2.5 to 2.5	Pass
		30	3.60	-3.487	-0.0042	-2.5 to 2.5	Pass
		40	3.60	0.613	0.0007	-2.5 to 2.5	Pass
		50	3.60	2.647	0.0032	-2.5 to 2.5	Pass
	836.6	20	3.40	-1.291	-0.0015	-2.5 to 2.5	Pass
			3.60	-1.227	-0.0015	-2.5 to 2.5	Pass

			4.20	-2.357	-0.0028	-2.5 to 2.5	Pass
		-30	3.60	-2.518	-0.0030	-2.5 to 2.5	Pass
		-20	3.60	-3.810	-0.0046	-2.5 to 2.5	Pass
		-10	3.60	-2.809	-0.0034	-2.5 to 2.5	Pass
		0	3.60	-6.005	-0.0072	-2.5 to 2.5	Pass
		10	3.60	-4.229	-0.0051	-2.5 to 2.5	Pass
		30	3.60	-5.295	-0.0063	-2.5 to 2.5	Pass
		40	3.60	-6.909	-0.0083	-2.5 to 2.5	Pass
		50	3.60	-3.358	-0.0040	-2.5 to 2.5	Pass
	848.8	20	3.40	-6.167	-0.0073	-2.5 to 2.5	Pass
			3.60	-0.807	-0.0010	-2.5 to 2.5	Pass
			4.20	-4.746	-0.0056	-2.5 to 2.5	Pass
		-30	3.60	-0.646	-0.0008	-2.5 to 2.5	Pass
		-20	3.60	-2.615	-0.0031	-2.5 to 2.5	Pass
		-10	3.60	-3.422	-0.0040	-2.5 to 2.5	Pass
		0	3.60	-7.103	-0.0084	-2.5 to 2.5	Pass
		10	3.60	-1.679	-0.0020	-2.5 to 2.5	Pass
		30	3.60	-3.551	-0.0042	-2.5 to 2.5	Pass
		40	3.60	-3.777	-0.0044	-2.5 to 2.5	Pass
		50	3.60	-4.197	-0.0049	-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	0.247	/	Pass
			836.6	0.251	/	Pass
			848.8	0.249	/	Pass
	EGPRS	1 TX Slot	824.2	0.237	/	Pass
			836.6	0.246	/	Pass
			848.8	0.246	/	Pass

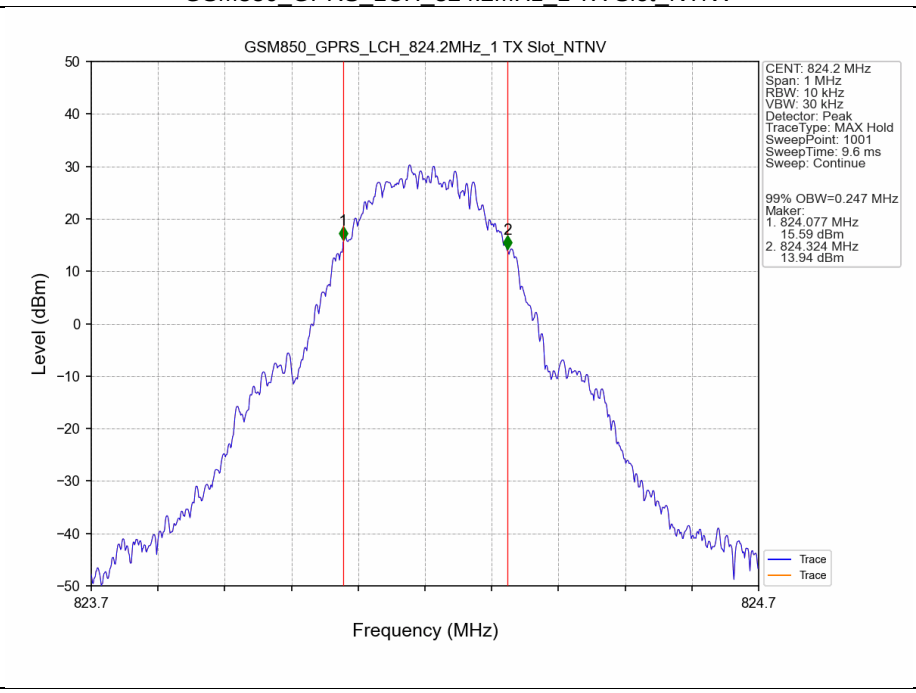
3.1.2 GSM850_XDB

Band: GSM850						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	824.2	0.308	/	Pass
			836.6	0.323	/	Pass
			848.8	0.323	/	Pass
	EGPRS	1 TX Slot	824.2	0.303	/	Pass
			836.6	0.309	/	Pass
			848.8	0.316	/	Pass

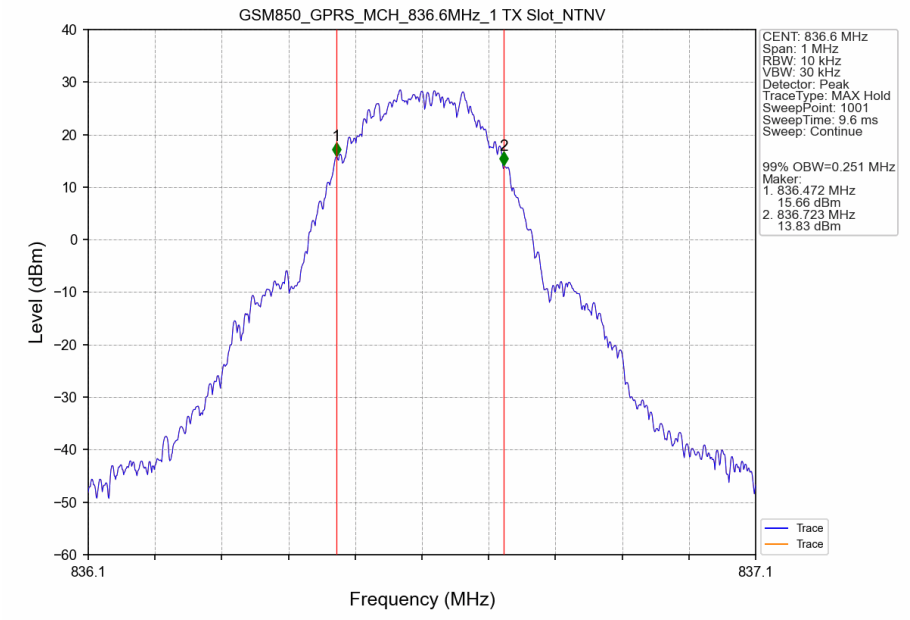
3.2 Test Graph

3.2.1 GSM850_OBW

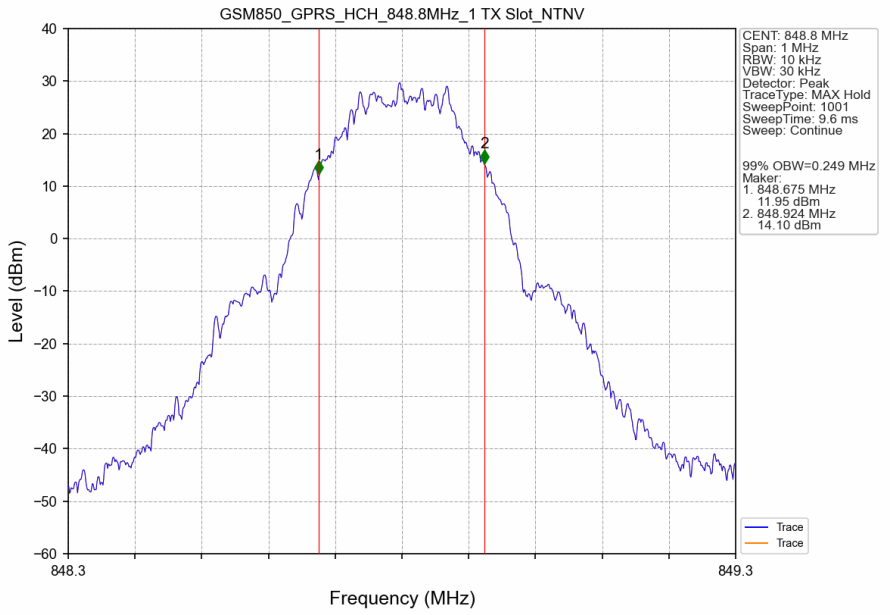
GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



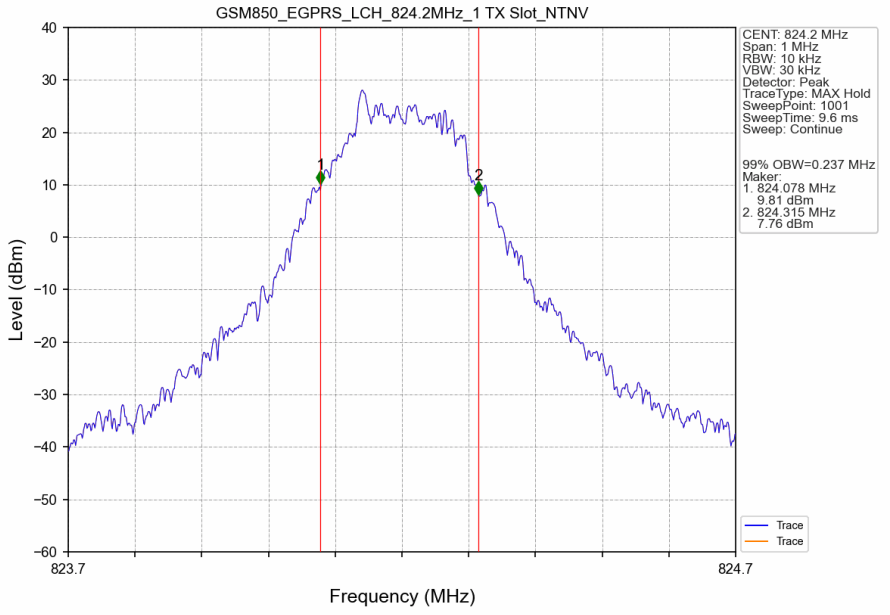
GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



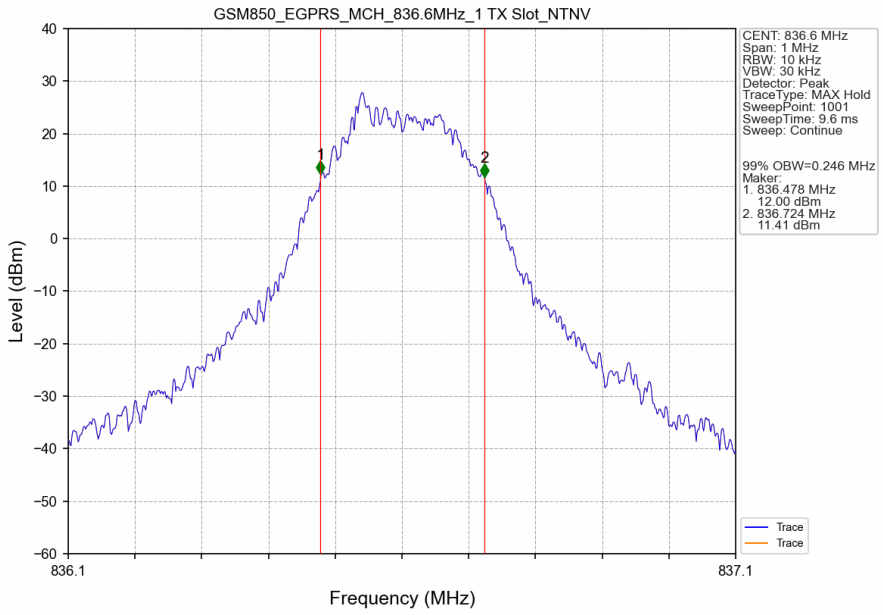
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



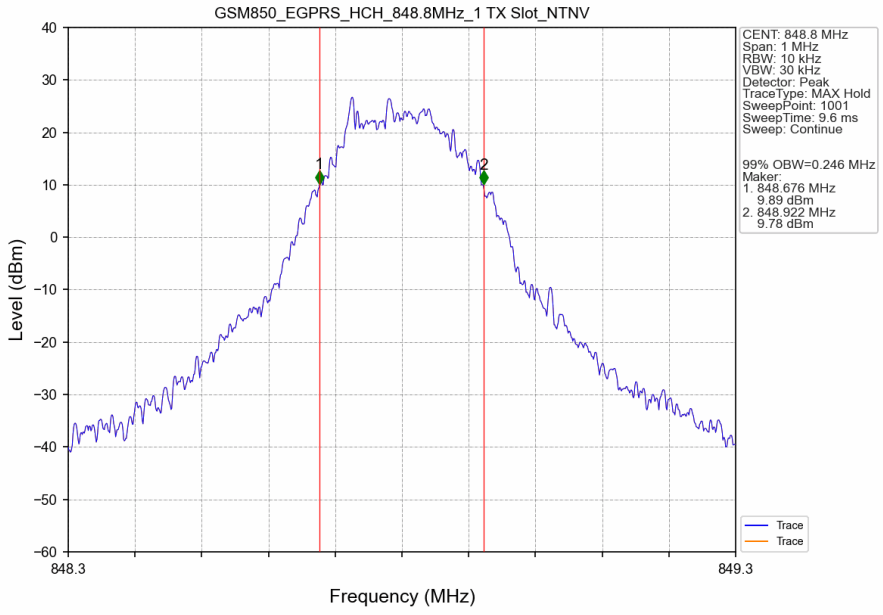
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV

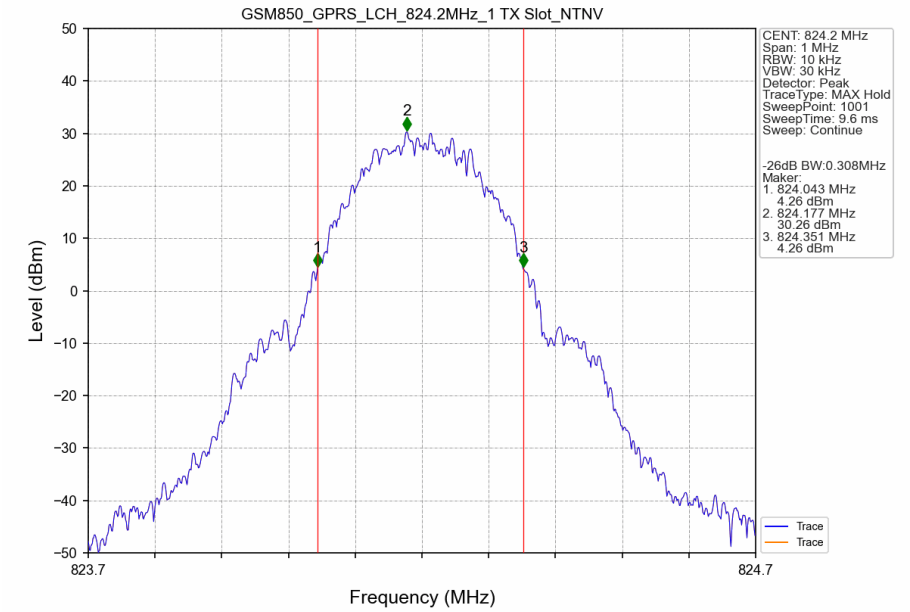


GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV

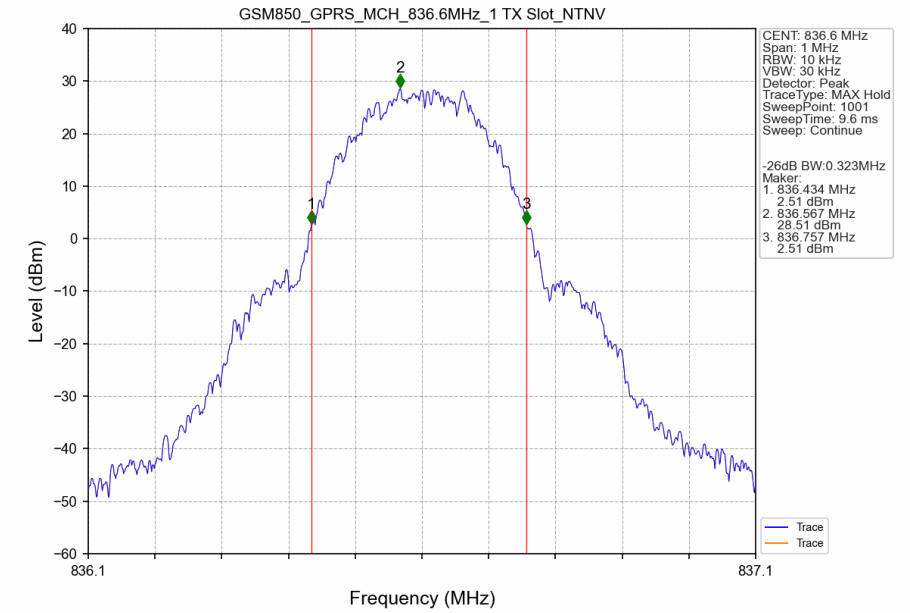


3.2.2 GSM850_XDB

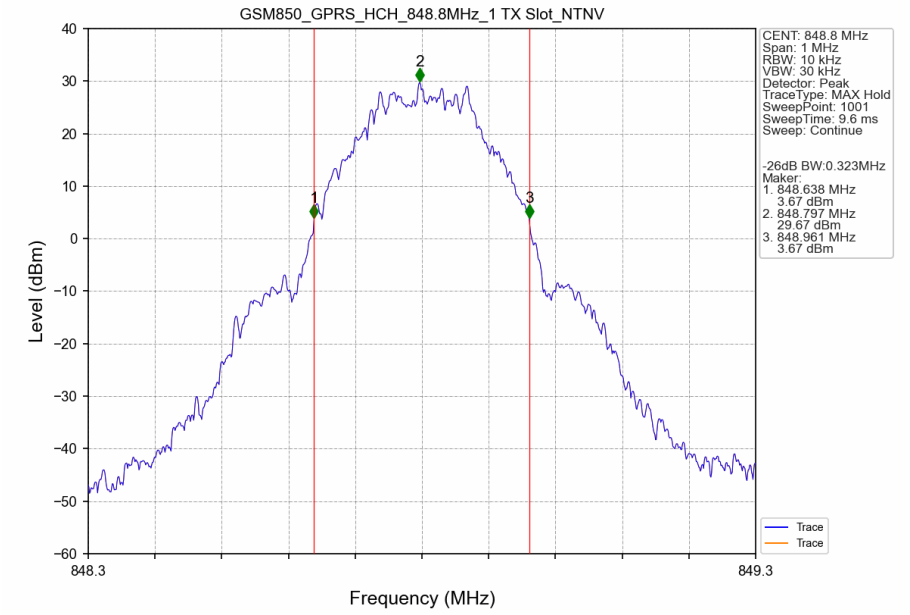
GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



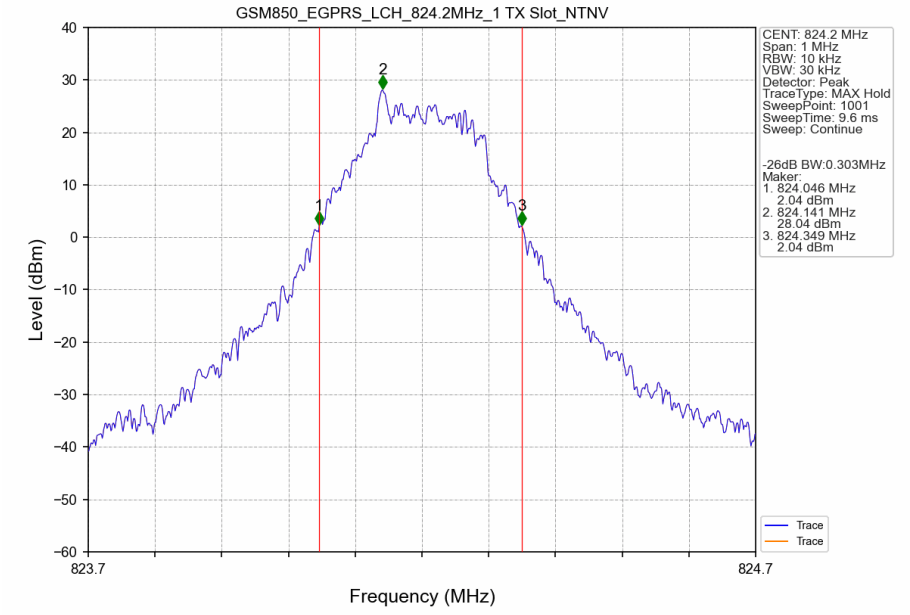
GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



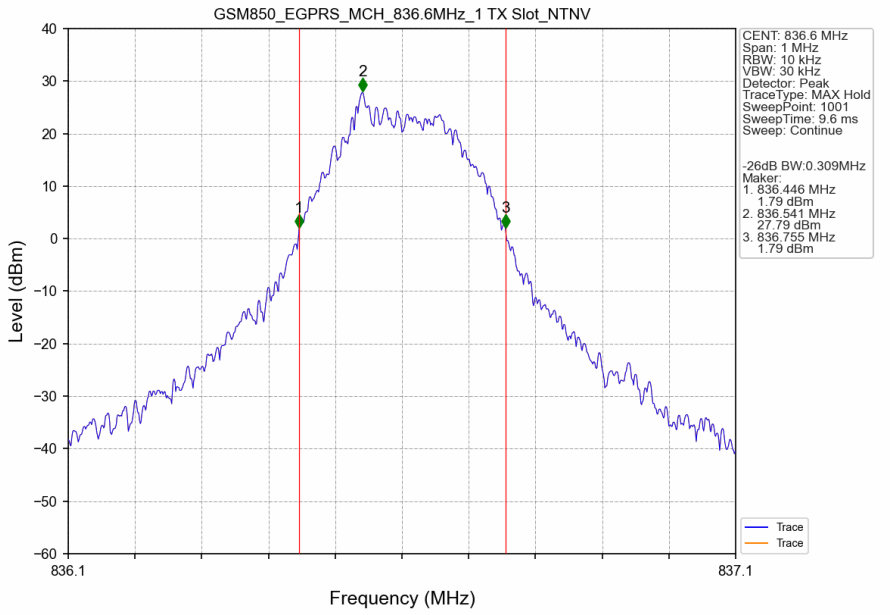
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



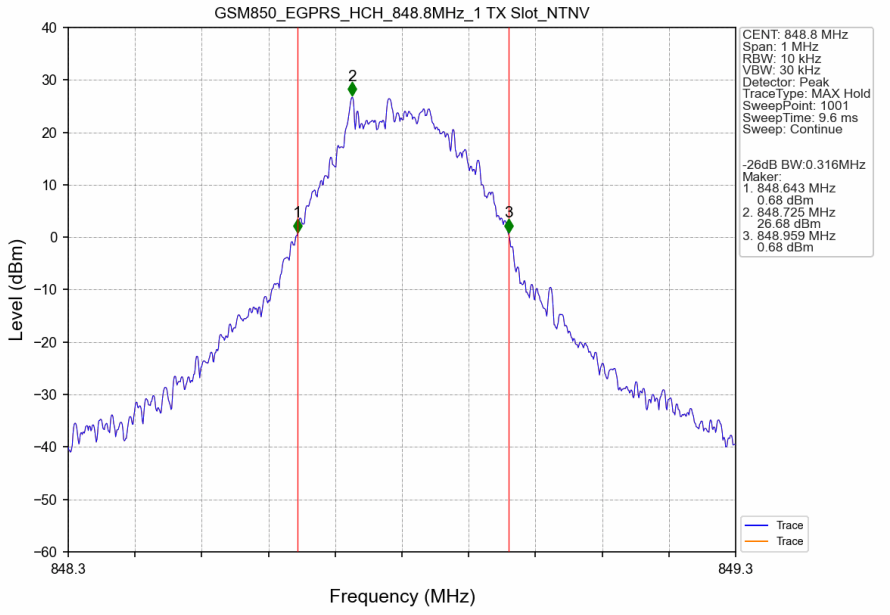
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



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

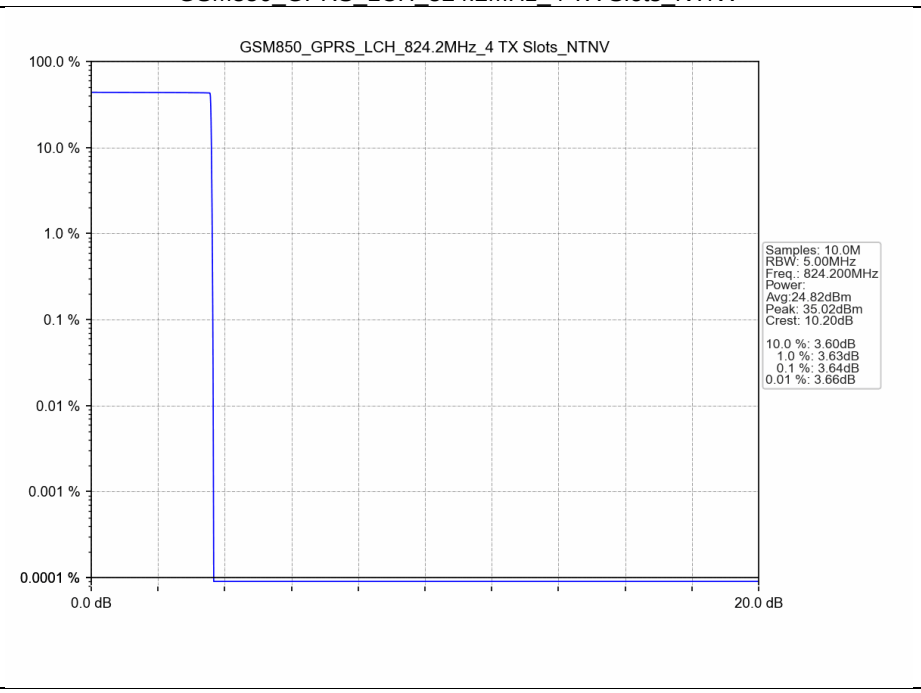
4.1.1 GSM850

Band: GSM850						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	824.2	3.64	<=13	Pass
			836.6	3.58	<=13	Pass
			848.8	3.62	<=13	Pass
	EGPRS	4 TX Slots	824.2	7.95	<=13	Pass
			836.6	8.01	<=13	Pass
			848.8	8.07	<=13	Pass

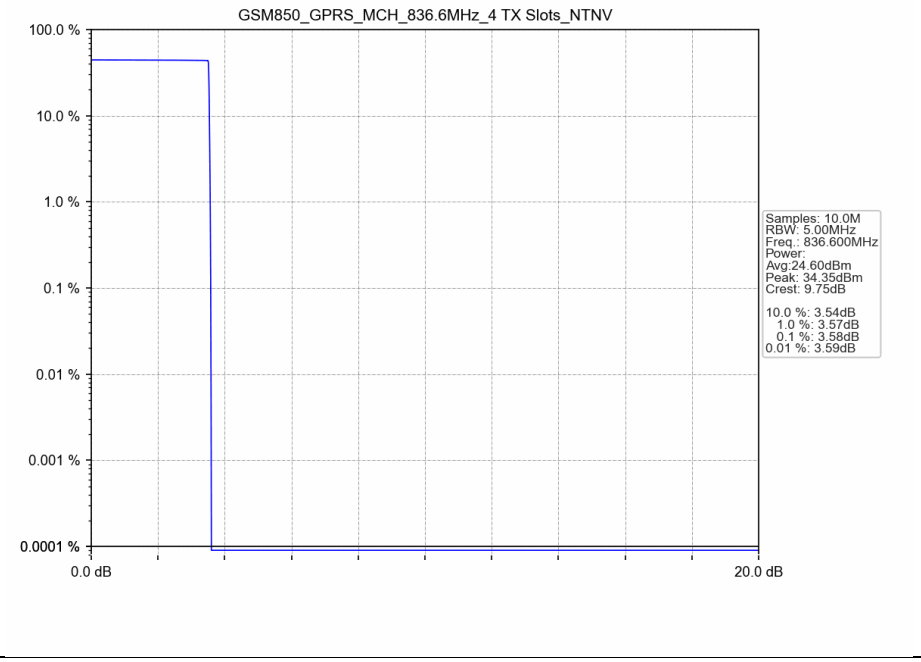
4.2 Test Graph

4.2.1 GSM850

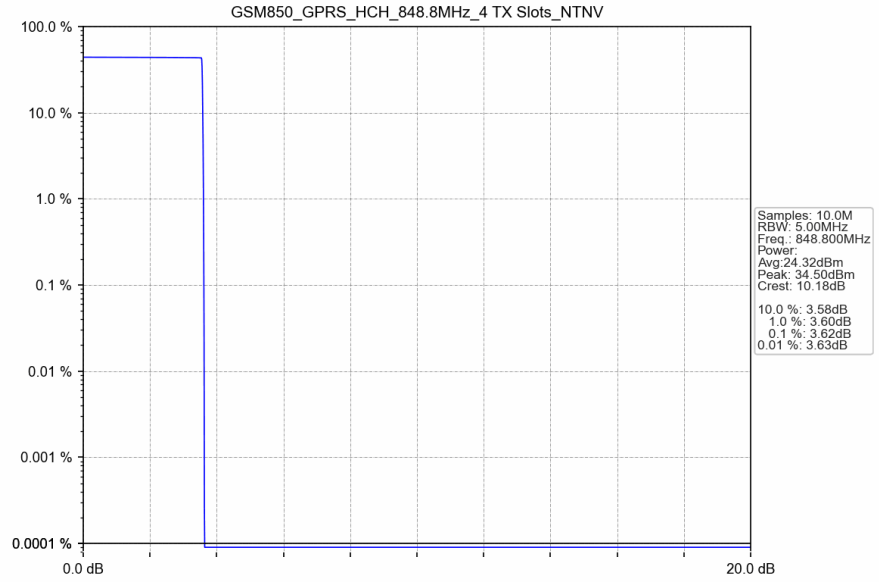
GSM850_GPRS_LCH_824.2MHz_4 TX Slots_NTNV



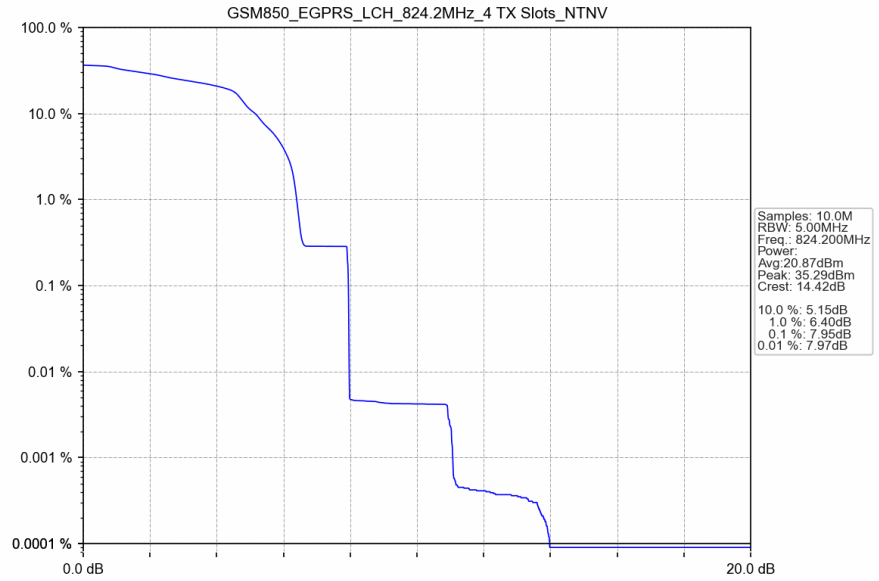
GSM850_GPRS_MCH_836.6MHz_4 TX Slots_NTNV



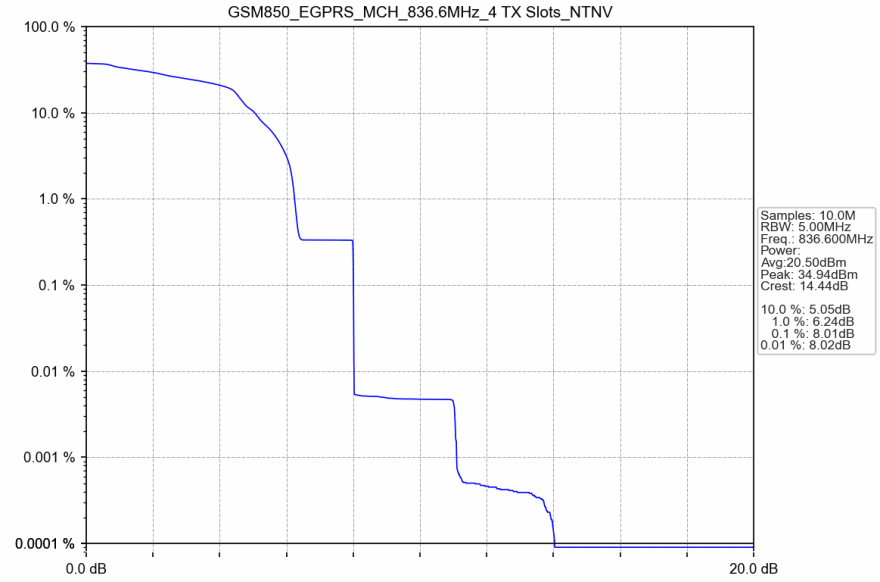
GSM850_GPRS_HCH_848.8MHz_4 TX Slots_NTNV



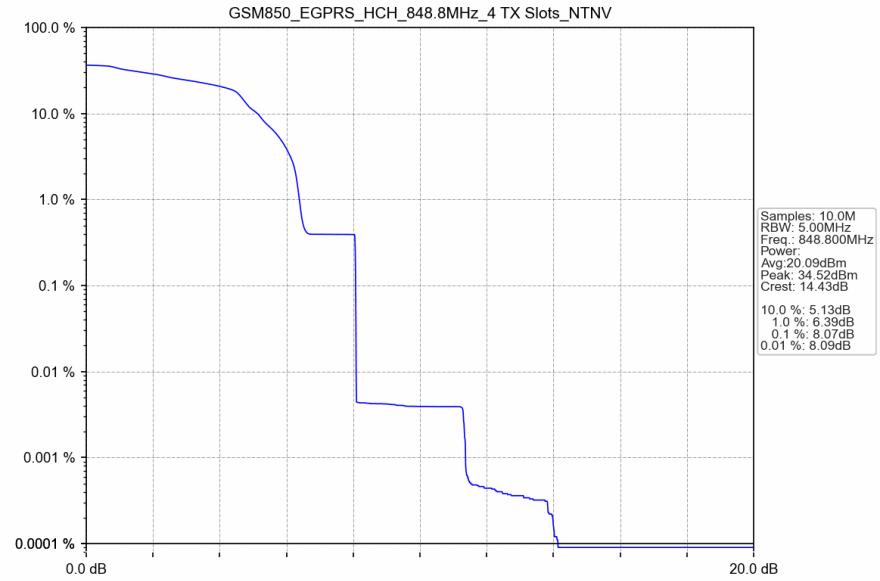
GSM850_EGPRS_LCH_824.2MHz_4 TX Slots_NTNV



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

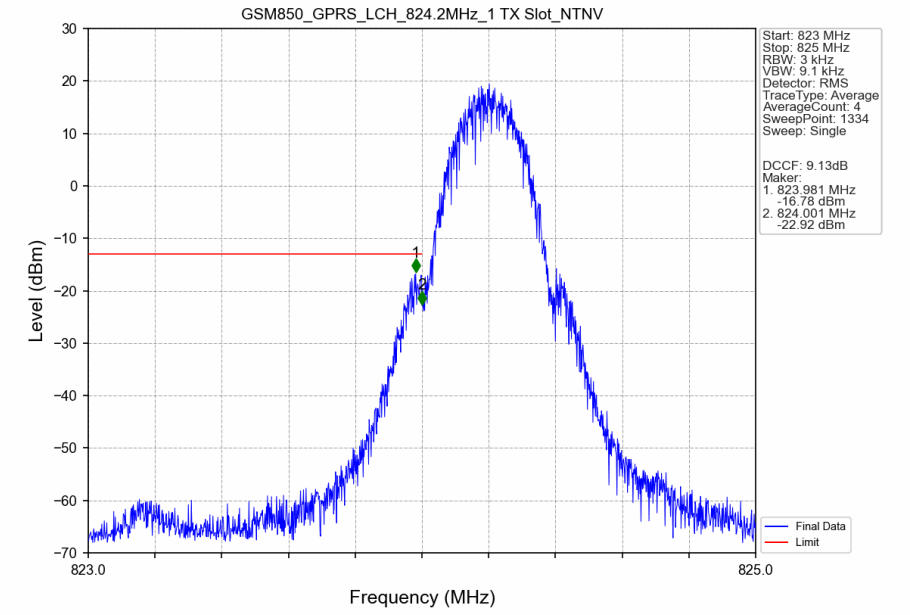
5.1.1 GSM850

Band: GSM850						
ENV	Mode		Frequency (MHz)	Spurious Emission		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

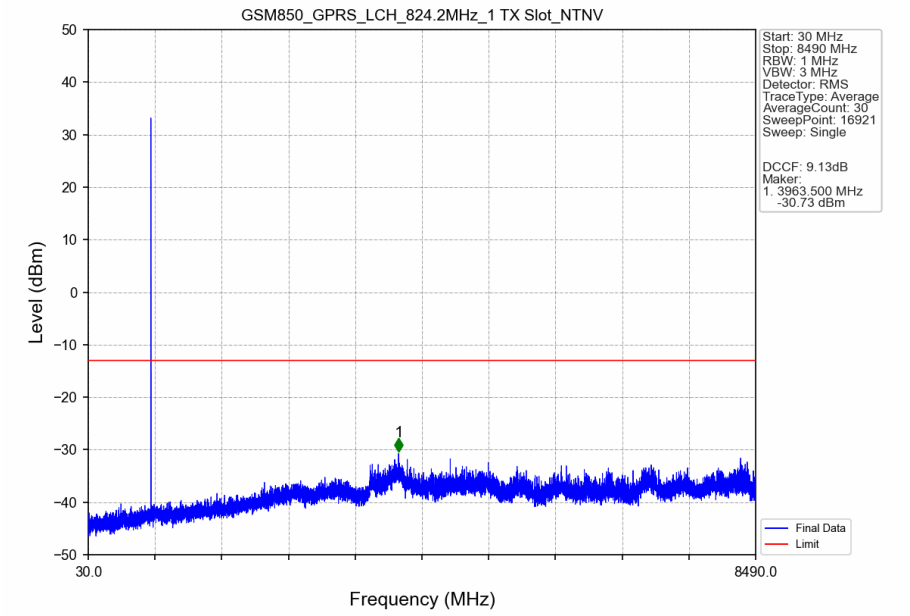
5.2 Test Graph

5.2.1 GSM850

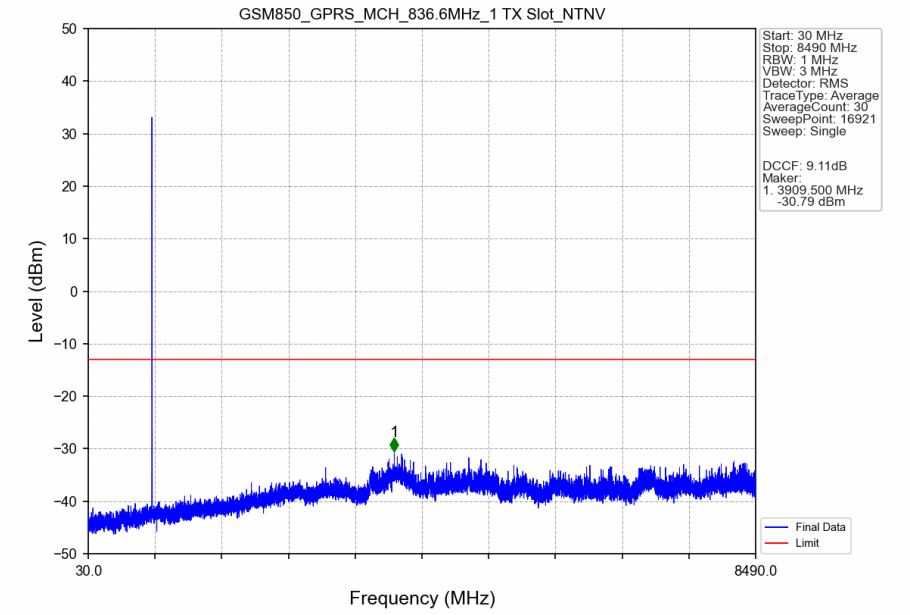
GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



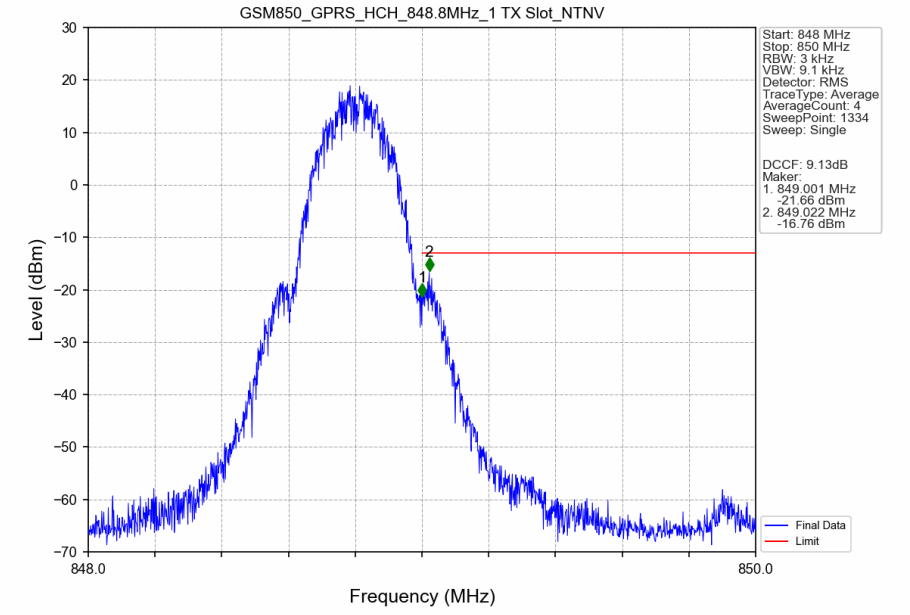
GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



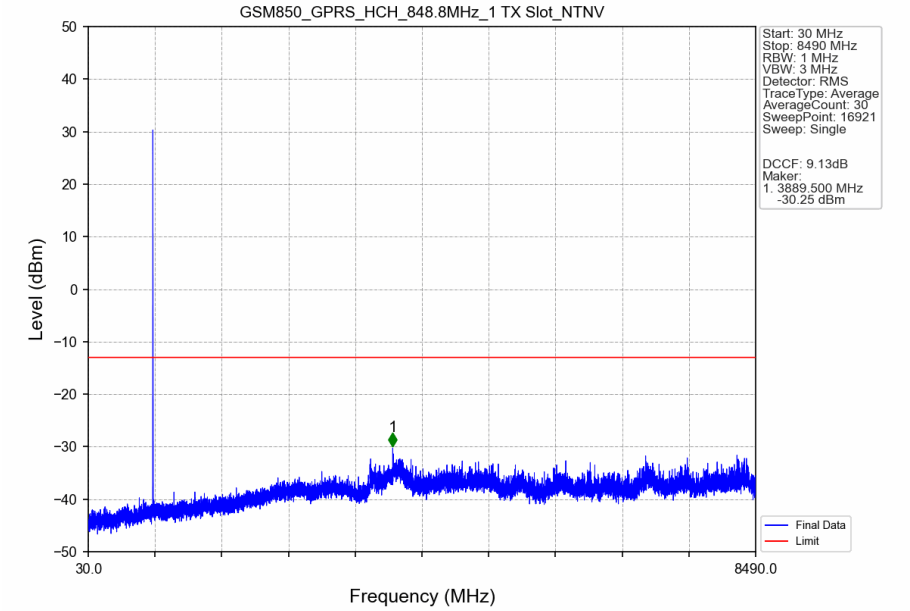
GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



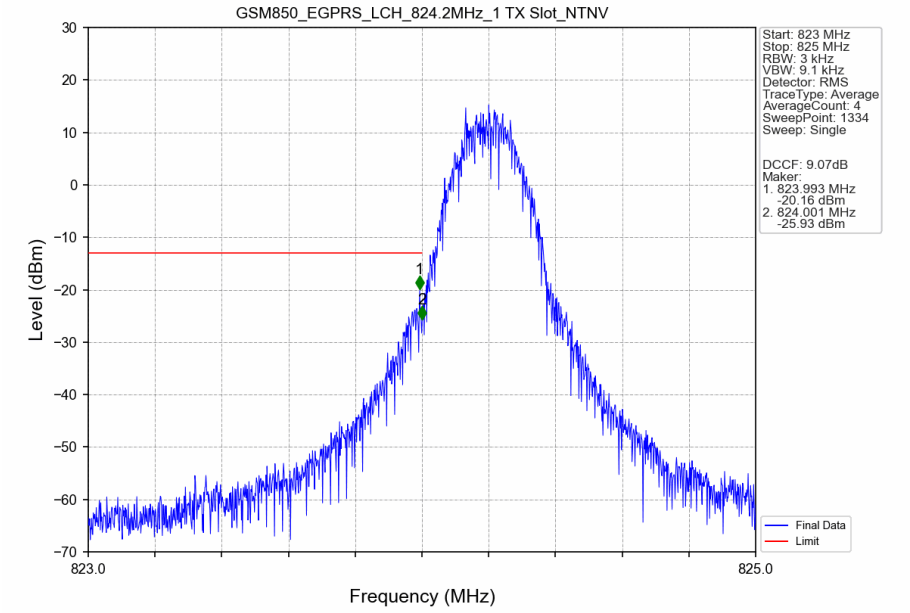
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



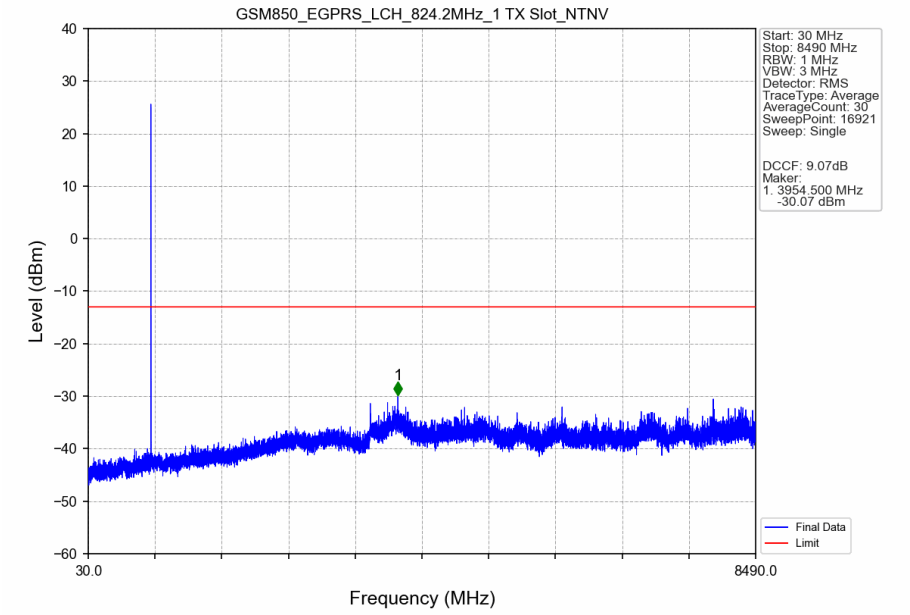
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



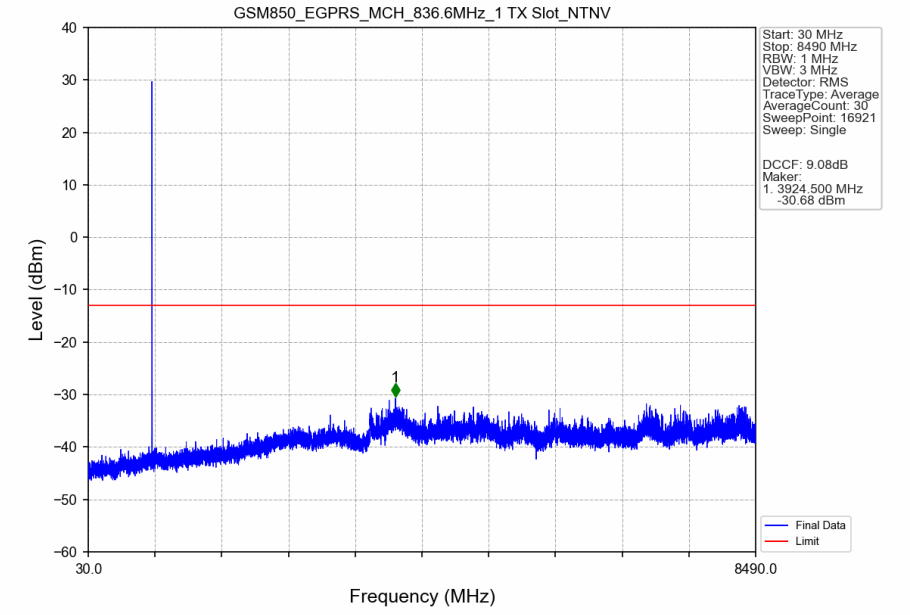
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV

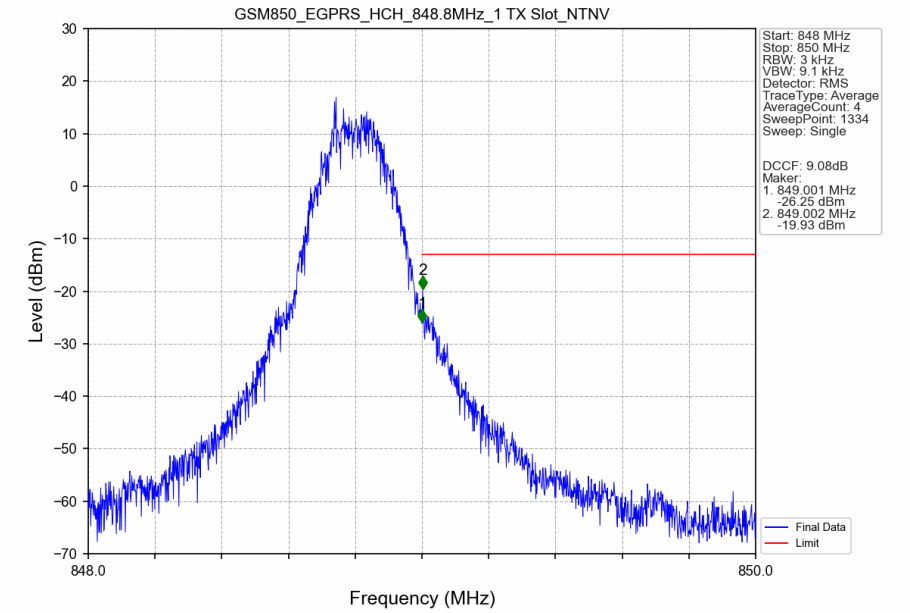


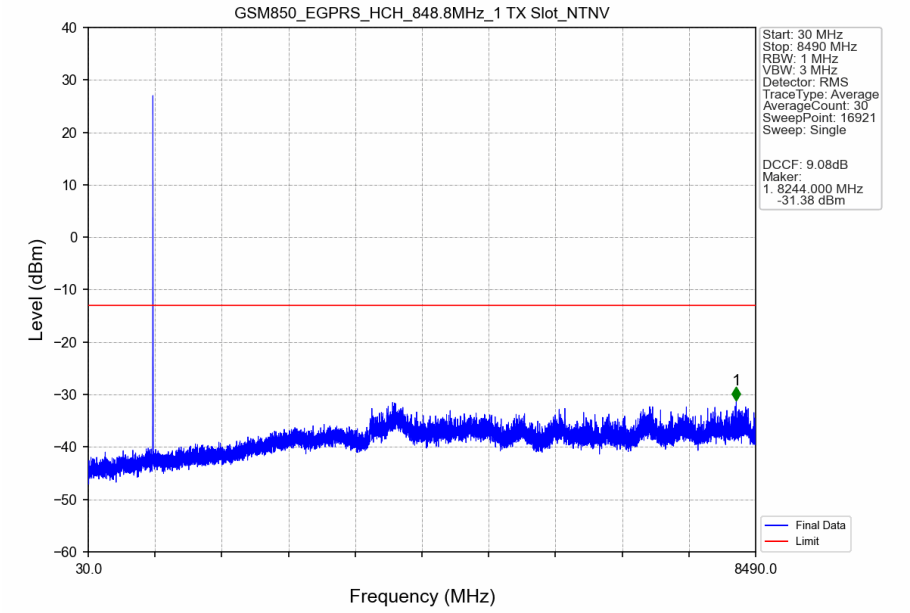
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



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


-The End-