

1. Effective (Isotropic) Radiated Power Output Data

1.1 GSM850_ERP

1.1.1 Test Result

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	32.50	3.53	33.88	<=38.45	Pass
		2 TX Slots	824.2	31.26	3.53	32.64	<=38.45	Pass
		3 TX Slots	824.2	28.99	3.53	30.37	<=38.45	Pass
		4 TX Slots	824.2	27.15	3.53	28.53	<=38.45	Pass
		1 TX Slot	836.6	32.16	3.53	33.54	<=38.45	Pass
		2 TX Slots	836.6	31.41	3.53	32.79	<=38.45	Pass
		3 TX Slots	836.6	29.21	3.53	30.59	<=38.45	Pass
		4 TX Slots	836.6	27.32	3.53	28.70	<=38.45	Pass
		1 TX Slot	848.8	32.52	3.53	33.90	<=38.45	Pass
		2 TX Slots	848.8	31.38	3.53	32.76	<=38.45	Pass
		3 TX Slots	848.8	29.19	3.53	30.57	<=38.45	Pass
		4 TX Slots	848.8	27.29	3.53	28.67	<=38.45	Pass
	EGPRS	1 TX Slot	824.2	26.12	3.53	27.50	<=38.45	Pass
		2 TX Slots	824.2	24.36	3.53	25.74	<=38.45	Pass
		3 TX Slots	824.2	21.87	3.53	23.25	<=38.45	Pass
		4 TX Slots	824.2	20.88	3.53	22.26	<=38.45	Pass
		1 TX Slot	836.6	28.14	3.53	29.52	<=38.45	Pass
		2 TX Slots	836.6	24.29	3.53	25.67	<=38.45	Pass
		3 TX Slots	836.6	21.81	3.53	23.19	<=38.45	Pass
		4 TX Slots	836.6	20.83	3.53	22.21	<=38.45	Pass
		1 TX Slot	848.8	25.83	3.53	27.21	<=38.45	Pass
		2 TX Slots	848.8	24.20	3.53	25.58	<=38.45	Pass
		3 TX Slots	848.8	24.61	3.53	25.99	<=38.45	Pass
		4 TX Slots	848.8	20.84	3.53	22.22	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 GSM850

2.1.1 Test Result

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	1.485	0.0018	-2.5 to 2.5	Pass
			3.85	8.362	0.0101	-2.5 to 2.5	Pass
			4.43	1.937	0.0024	-2.5 to 2.5	Pass
		-30	3.85	9.008	0.0109	-2.5 to 2.5	Pass
		-20	3.85	4.036	0.0049	-2.5 to 2.5	Pass
		-10	3.85	2.034	0.0025	-2.5 to 2.5	Pass
		0	3.85	5.521	0.0067	-2.5 to 2.5	Pass
		10	3.85	-0.161	-0.0002	-2.5 to 2.5	Pass
		30	3.85	5.521	0.0067	-2.5 to 2.5	Pass
		40	3.85	0.484	0.0006	-2.5 to 2.5	Pass
		50	3.85	4.940	0.0060	-2.5 to 2.5	Pass

	836.6	20	3.27	7.135	0.0085	-2.5 to 2.5	Pass
			3.85	6.199	0.0074	-2.5 to 2.5	Pass
			4.43	14.109	0.0169	-2.5 to 2.5	Pass
		-30	3.85	10.848	0.0130	-2.5 to 2.5	Pass
		-20	3.85	2.583	0.0031	-2.5 to 2.5	Pass
		-10	3.85	5.650	0.0068	-2.5 to 2.5	Pass
		0	3.85	8.685	0.0104	-2.5 to 2.5	Pass
		10	3.85	9.847	0.0118	-2.5 to 2.5	Pass
		30	3.85	2.131	0.0025	-2.5 to 2.5	Pass
		40	3.85	7.845	0.0094	-2.5 to 2.5	Pass
		50	3.85	11.268	0.0135	-2.5 to 2.5	Pass
	848.8	20	3.27	3.422	0.0040	-2.5 to 2.5	Pass
			3.85	-5.004	-0.0059	-2.5 to 2.5	Pass
			4.43	-3.132	-0.0037	-2.5 to 2.5	Pass
		-30	3.85	0.710	0.0008	-2.5 to 2.5	Pass
		-20	3.85	4.843	0.0057	-2.5 to 2.5	Pass
		-10	3.85	3.551	0.0042	-2.5 to 2.5	Pass
		0	3.85	1.679	0.0020	-2.5 to 2.5	Pass
		10	3.85	-1.550	-0.0018	-2.5 to 2.5	Pass
		30	3.85	1.776	0.0021	-2.5 to 2.5	Pass
		40	3.85	0.452	0.0005	-2.5 to 2.5	Pass
EGPRS	824.2	20	3.27	15.013	0.0182	-2.5 to 2.5	Pass
			3.85	23.730	0.0288	-2.5 to 2.5	Pass
			4.43	19.888	0.0241	-2.5 to 2.5	Pass
		-30	3.85	16.789	0.0204	-2.5 to 2.5	Pass
		-20	3.85	24.731	0.0300	-2.5 to 2.5	Pass
		-10	3.85	22.955	0.0279	-2.5 to 2.5	Pass
		0	3.85	15.885	0.0193	-2.5 to 2.5	Pass
		10	3.85	15.336	0.0186	-2.5 to 2.5	Pass
		30	3.85	19.307	0.0234	-2.5 to 2.5	Pass
		40	3.85	13.108	0.0159	-2.5 to 2.5	Pass
		50	3.85	14.109	0.0171	-2.5 to 2.5	Pass
	836.6	20	3.27	19.953	0.0239	-2.5 to 2.5	Pass
			3.85	24.892	0.0298	-2.5 to 2.5	Pass
			4.43	25.764	0.0308	-2.5 to 2.5	Pass
		-30	3.85	20.889	0.0250	-2.5 to 2.5	Pass
		-20	3.85	24.085	0.0288	-2.5 to 2.5	Pass
		-10	3.85	14.496	0.0173	-2.5 to 2.5	Pass
		0	3.85	17.660	0.0211	-2.5 to 2.5	Pass
		10	3.85	21.858	0.0261	-2.5 to 2.5	Pass
		30	3.85	20.566	0.0246	-2.5 to 2.5	Pass
		40	3.85	16.272	0.0195	-2.5 to 2.5	Pass
		50	3.85	23.795	0.0284	-2.5 to 2.5	Pass
	848.8	20	3.27	18.694	0.0220	-2.5 to 2.5	Pass
			3.85	22.019	0.0259	-2.5 to 2.5	Pass
			4.43	20.857	0.0246	-2.5 to 2.5	Pass
		-30	3.85	16.692	0.0197	-2.5 to 2.5	Pass
		-20	3.85	19.242	0.0227	-2.5 to 2.5	Pass
		-10	3.85	13.625	0.0161	-2.5 to 2.5	Pass
		0	3.85	15.207	0.0179	-2.5 to 2.5	Pass
		10	3.85	12.624	0.0149	-2.5 to 2.5	Pass
		30	3.85	17.402	0.0205	-2.5 to 2.5	Pass
		40	3.85	17.854	0.0210	-2.5 to 2.5	Pass
		50	3.85	16.111	0.0190	-2.5 to 2.5	Pass

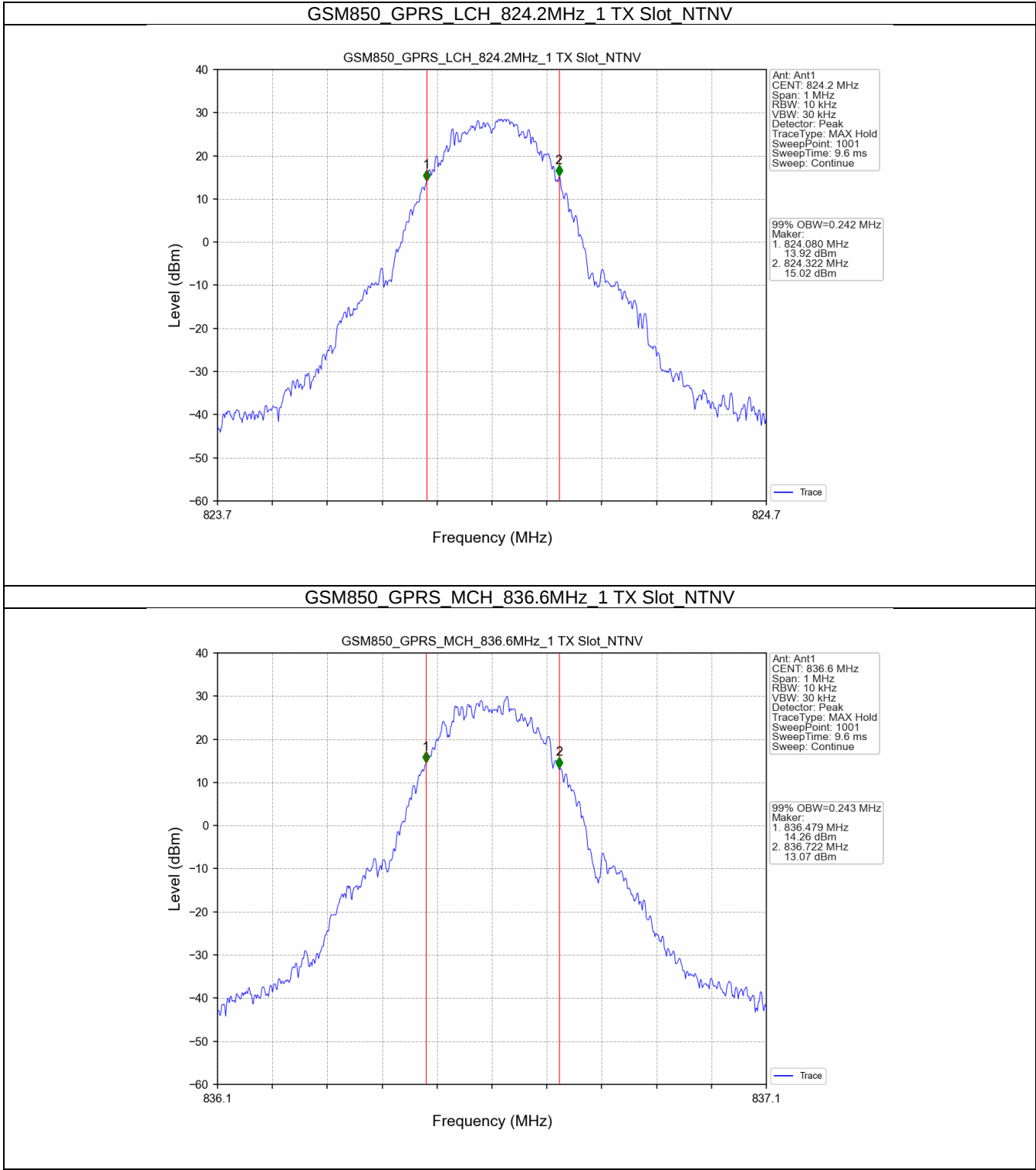
3. 99% & 26dB Bandwidth

3.1 GSM850_OBW

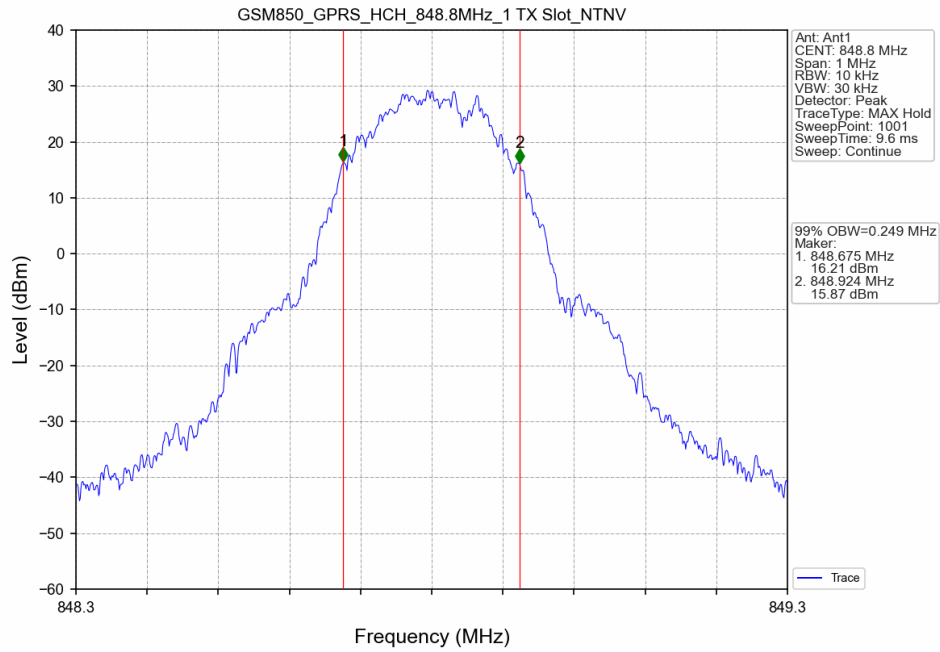
3.1.1 Test Result

Band: GSM850						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	824.2	0.242	/	Pass
			836.6	0.243	/	Pass
			848.8	0.249	/	Pass
	EGPRS	1 TX Slot	824.2	0.238	/	Pass
			836.6	0.239	/	Pass
			848.8	0.248	/	Pass

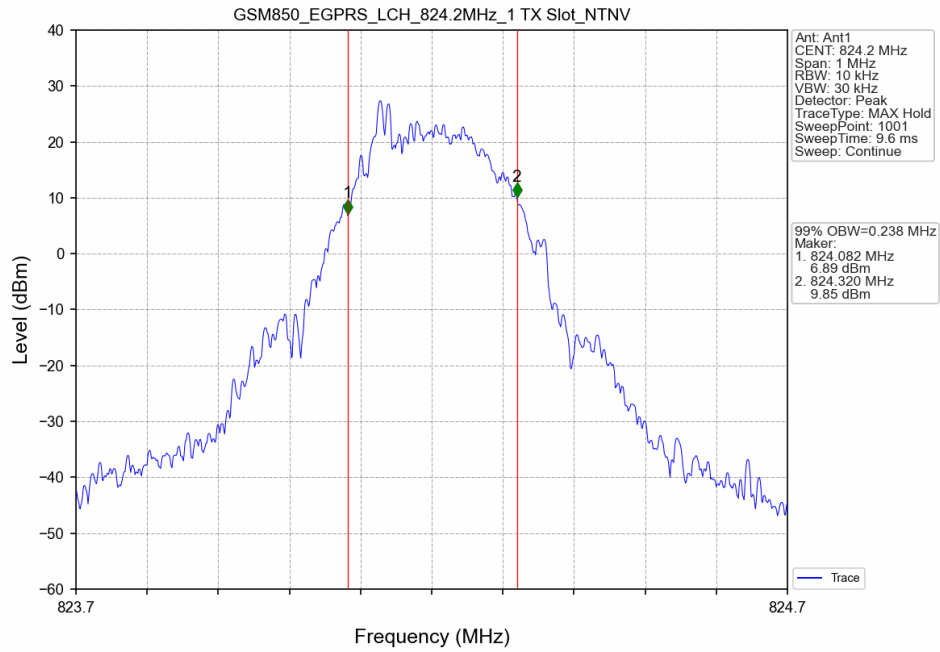
3.1.2 Test Graph



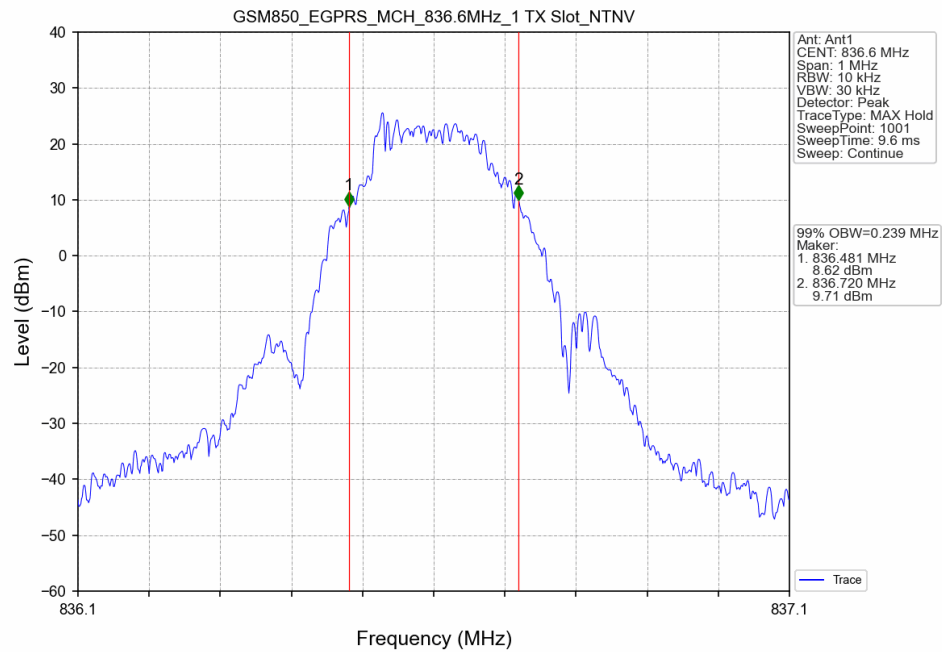
GSM850 GPRS HCH 848.8MHz 1 TX Slot NTN



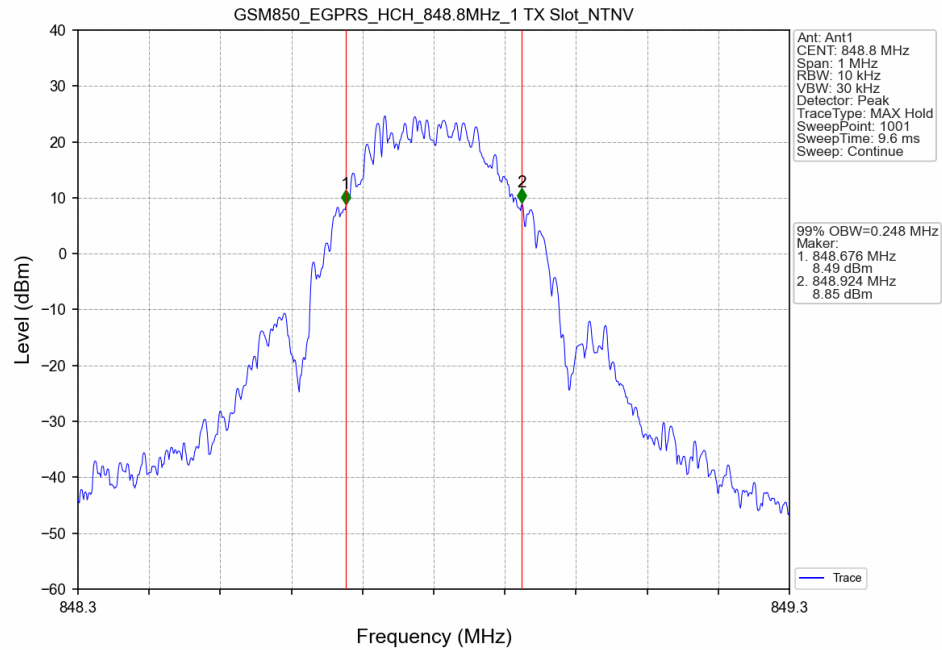
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GSM850 EGPRS MCH 836.6MHz 1 TX Slot NTN



GSM850 EGPRS HCH 848.8MHz 1 TX Slot NTN

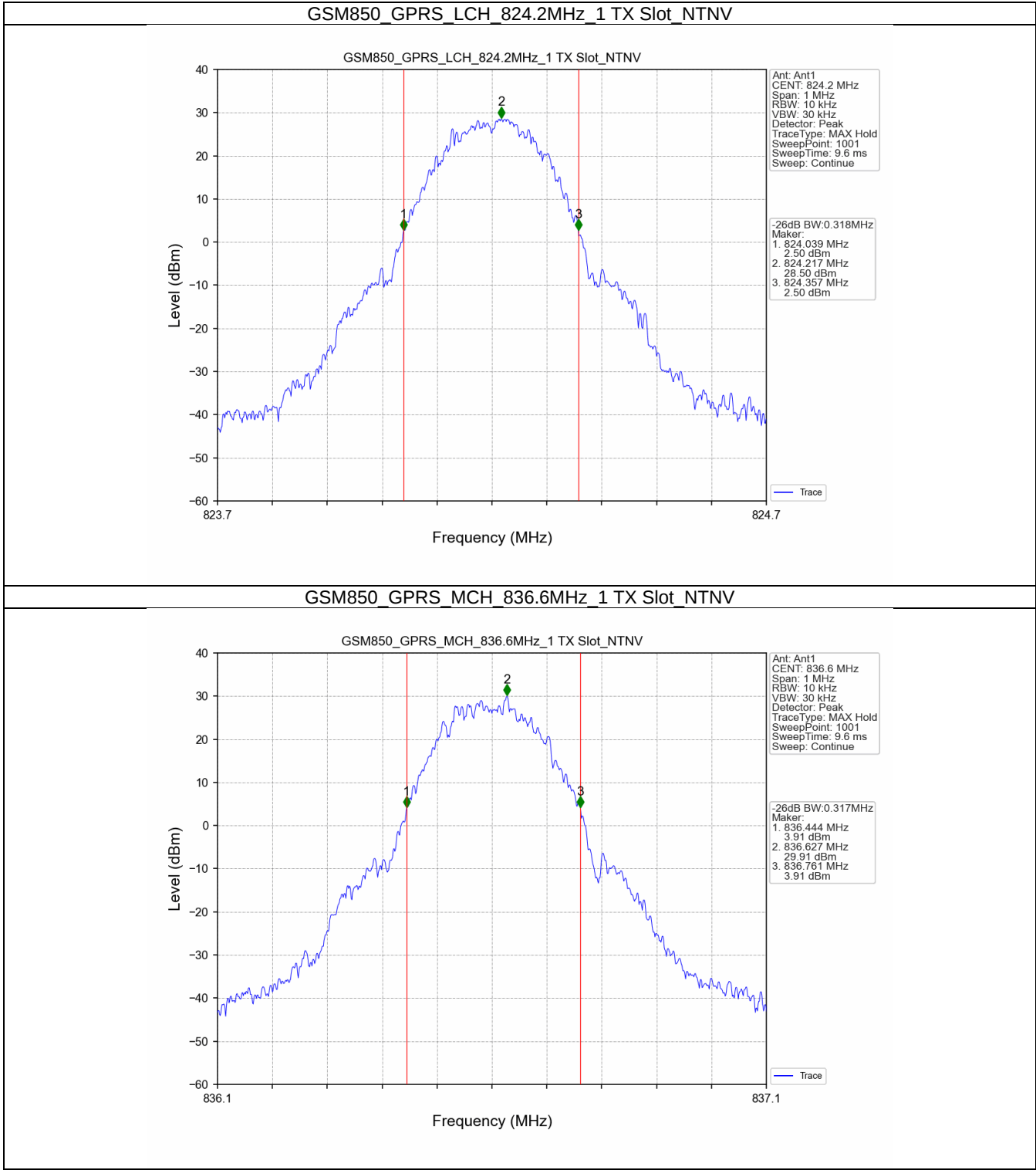


3.2 GSM850_XDB

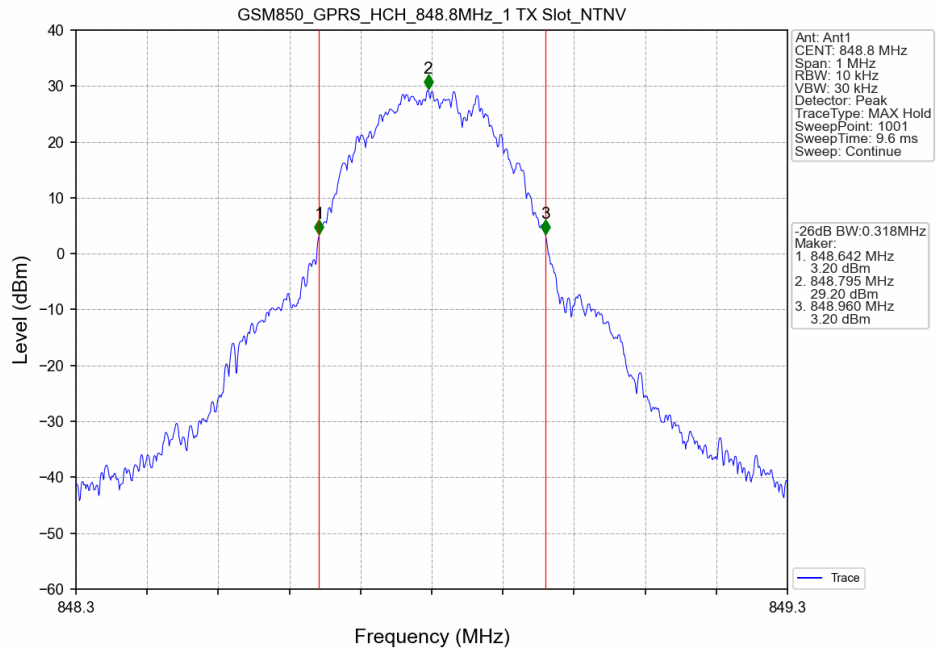
3.2.1 Test Result

Band: GSM850						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	824.2	0.318	/	Pass
			836.6	0.317	/	Pass
			848.8	0.318	/	Pass
	EGPRS	1 TX Slot	824.2	0.306	/	Pass
			836.6	0.308	/	Pass
			848.8	0.315	/	Pass

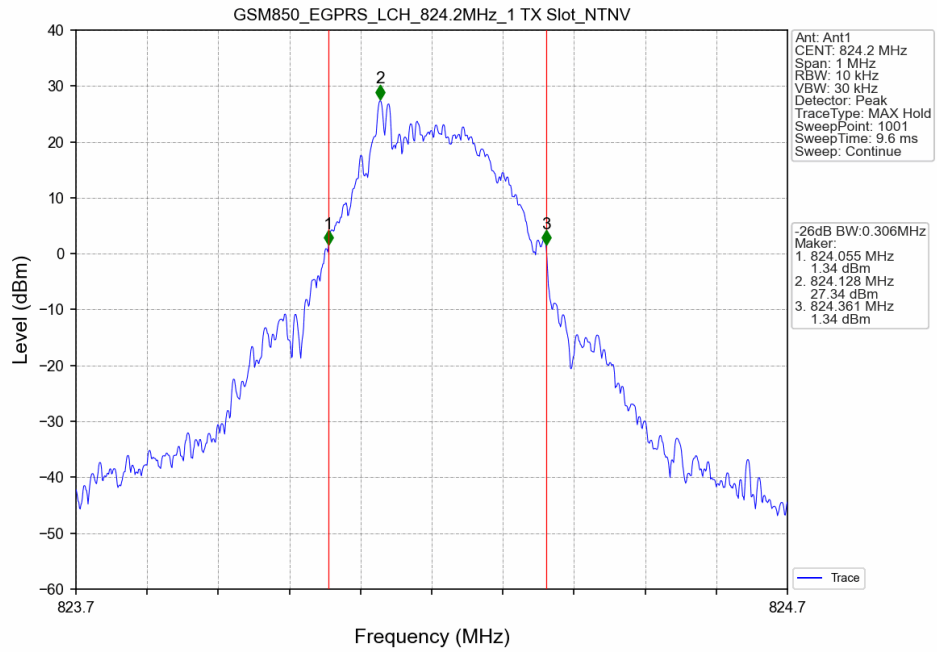
3.2.2 Test Graph



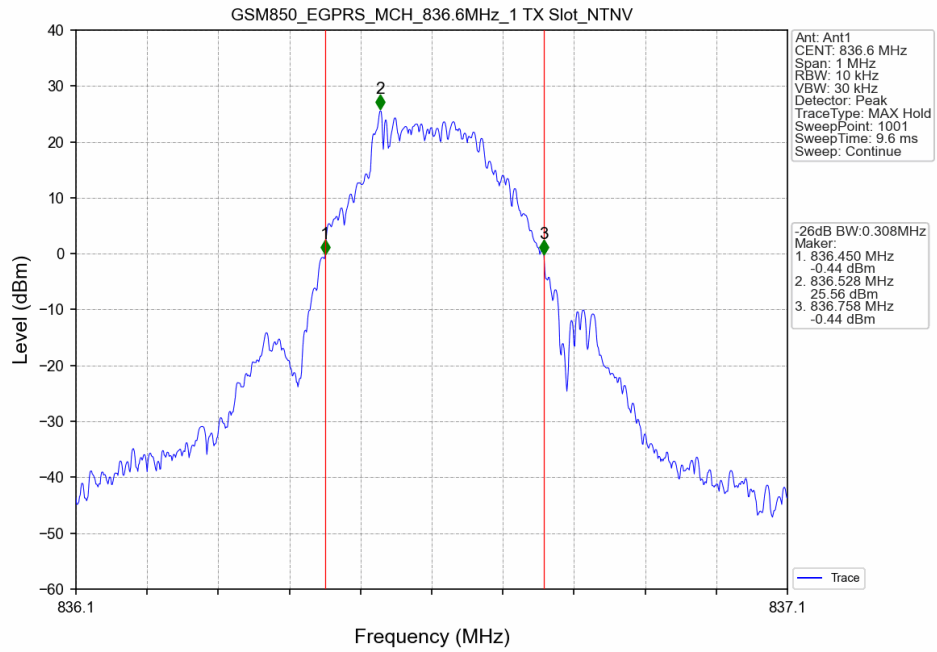
GSM850 GPRS HCH 848.8MHz 1 TX Slot NTN



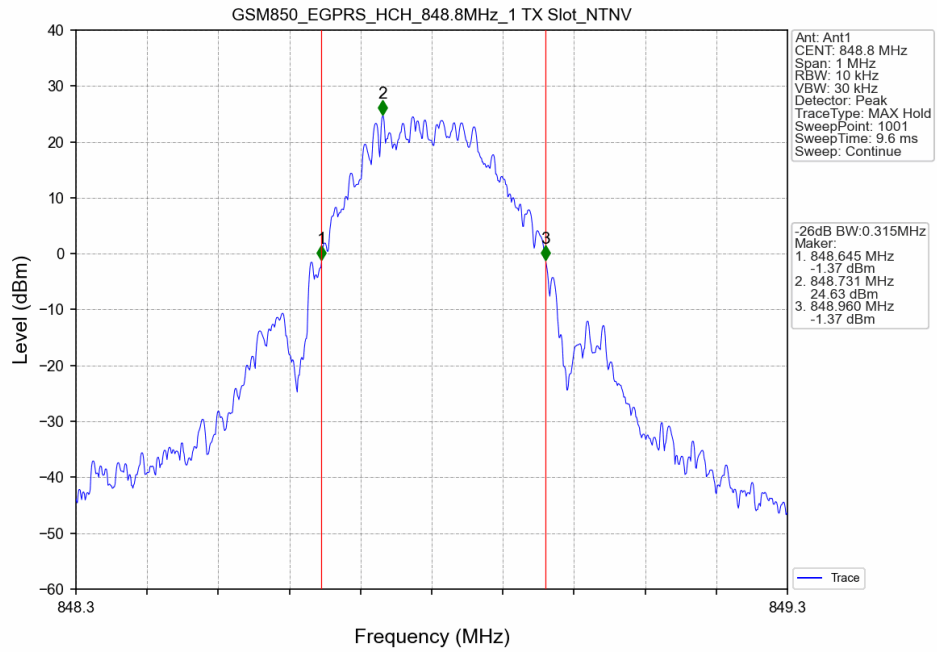
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GSM850 EGPRS MCH 836.6MHz 1 TX Slot NTN



GSM850 EGPRS HCH 848.8MHz 1 TX Slot NTN



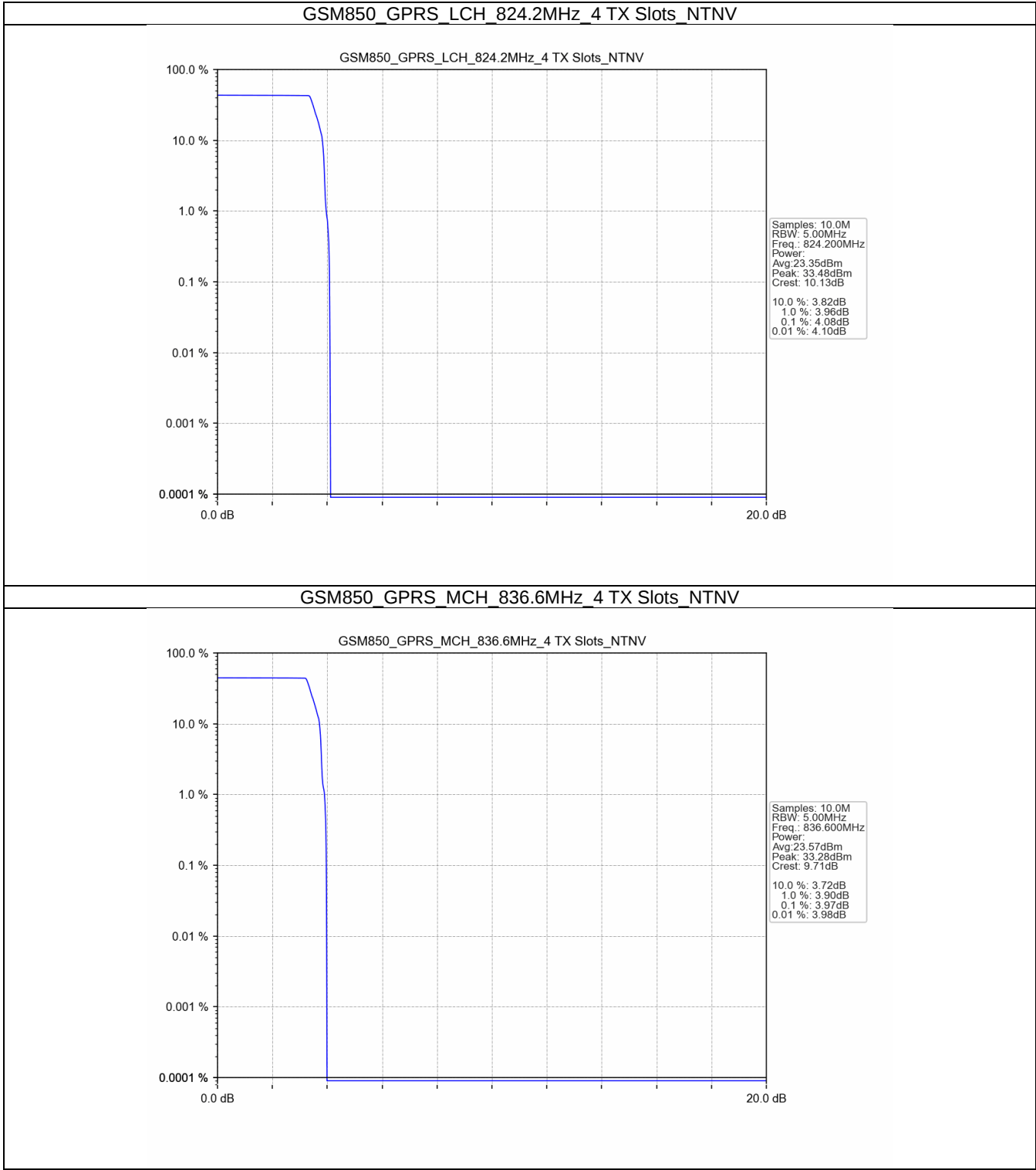
4. Peak-Average Ratio

4.1 GSM850

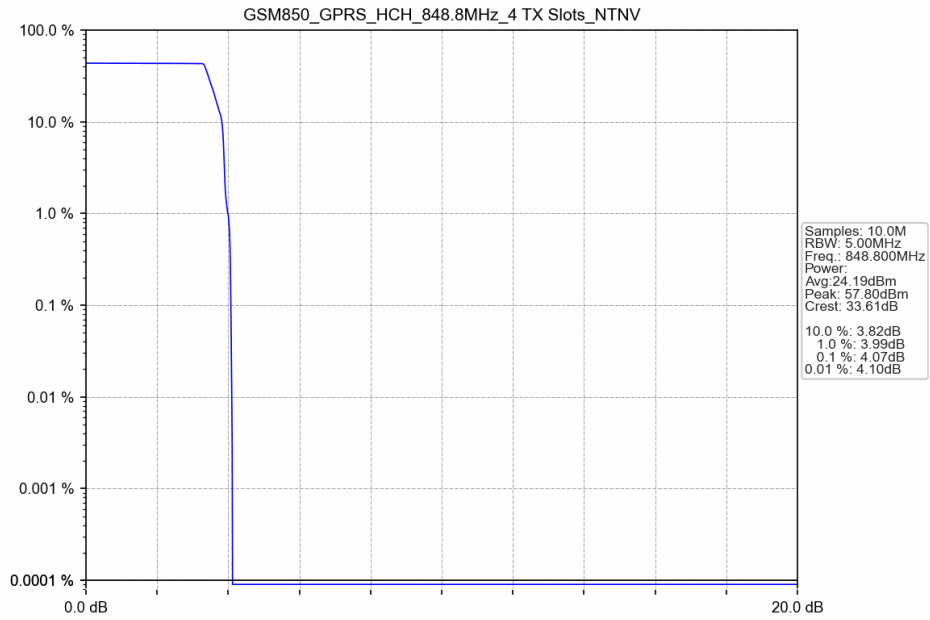
4.1.1 Test Result

Band: GSM850						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	824.2	4.08	<=13	Pass
			836.6	3.97	<=13	Pass
			848.8	4.07	<=13	Pass
	EGPRS	4 TX Slots	824.2	7.06	<=13	Pass
			836.6	9.40	<=13	Pass
			848.8	9.88	<=13	Pass

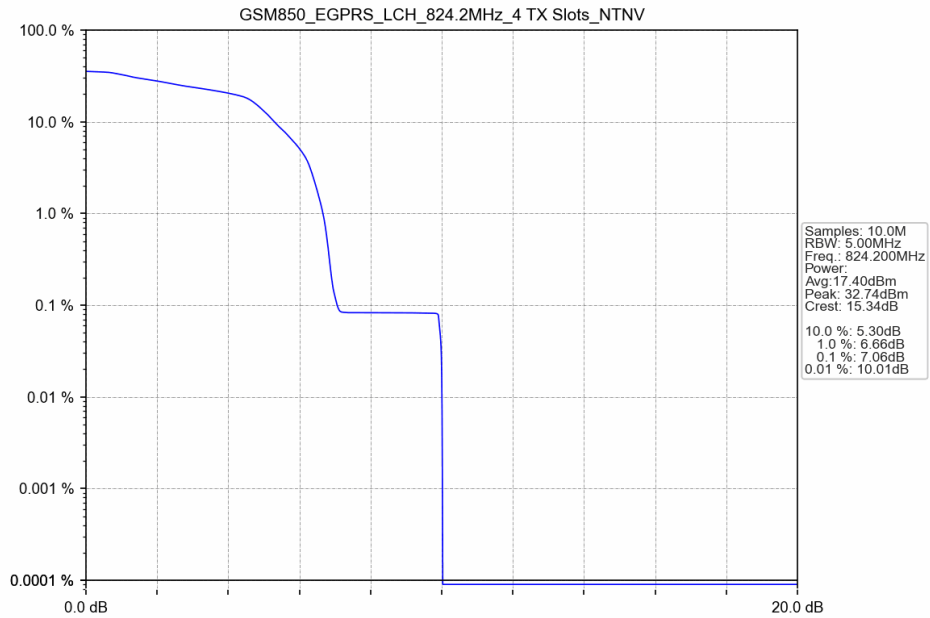
4.1.2 Test Graph



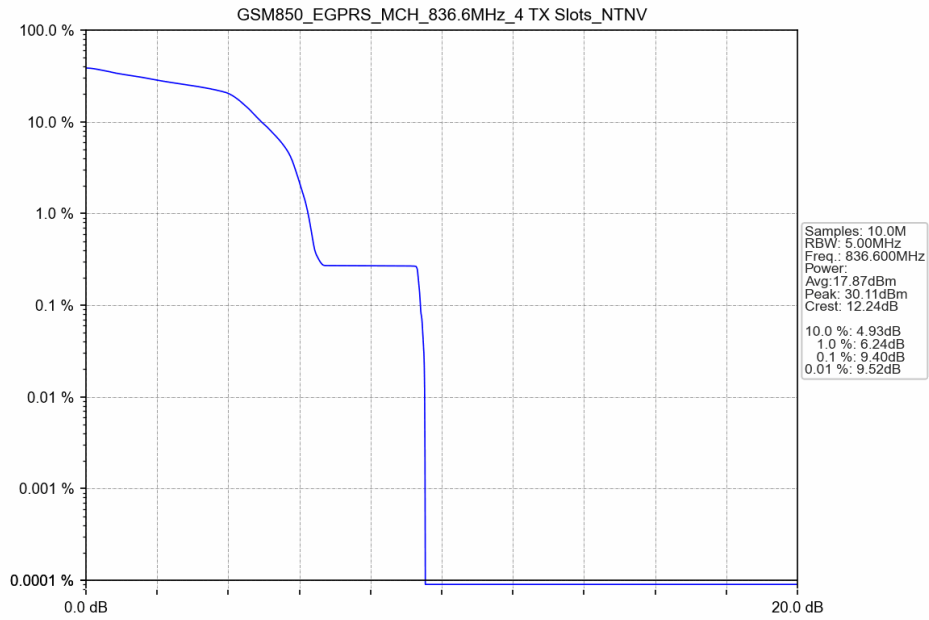
GSM850 GPRS HCH 848.8MHz 4 TX Slots NTNV



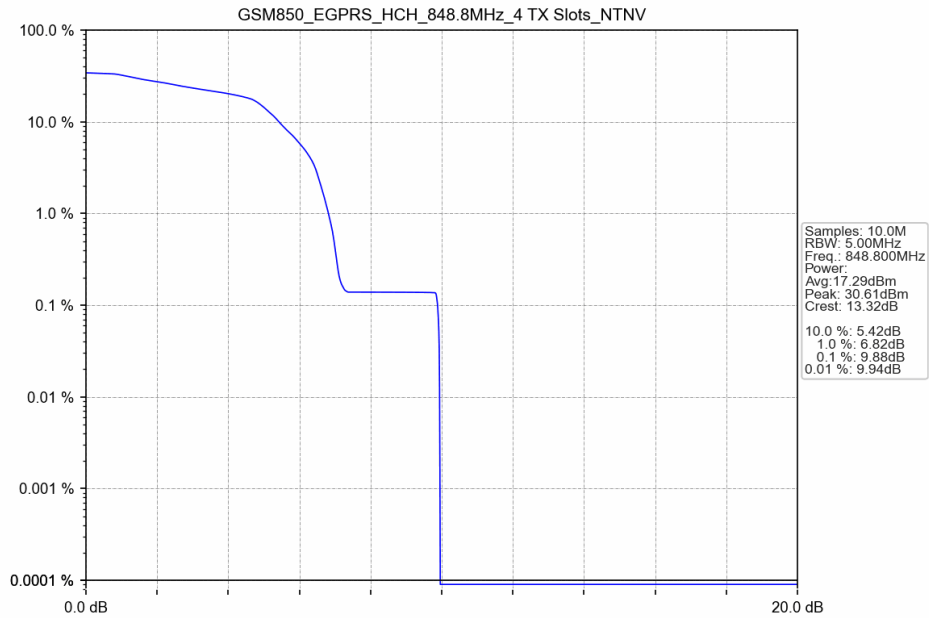
GSM850 EGPRS LCH 824.2MHz 4 TX Slots NTNV



GSM850 EGPRS MCH 836.6MHz 4 TX Slots NTN



GSM850 EGPRS HCH 848.8MHz 4 TX Slots NTN



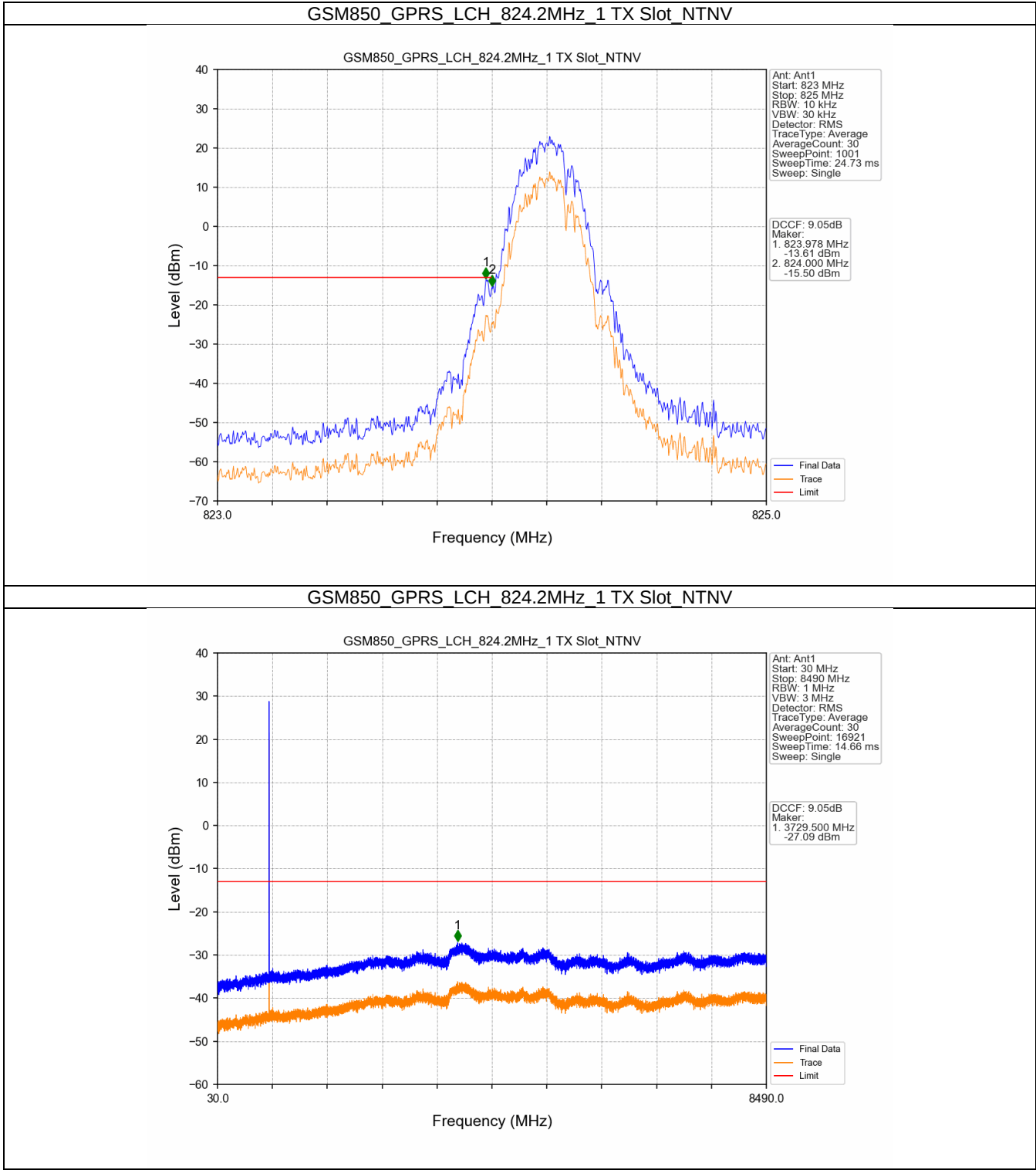
5. Spurious Emission

5.1 GSM850

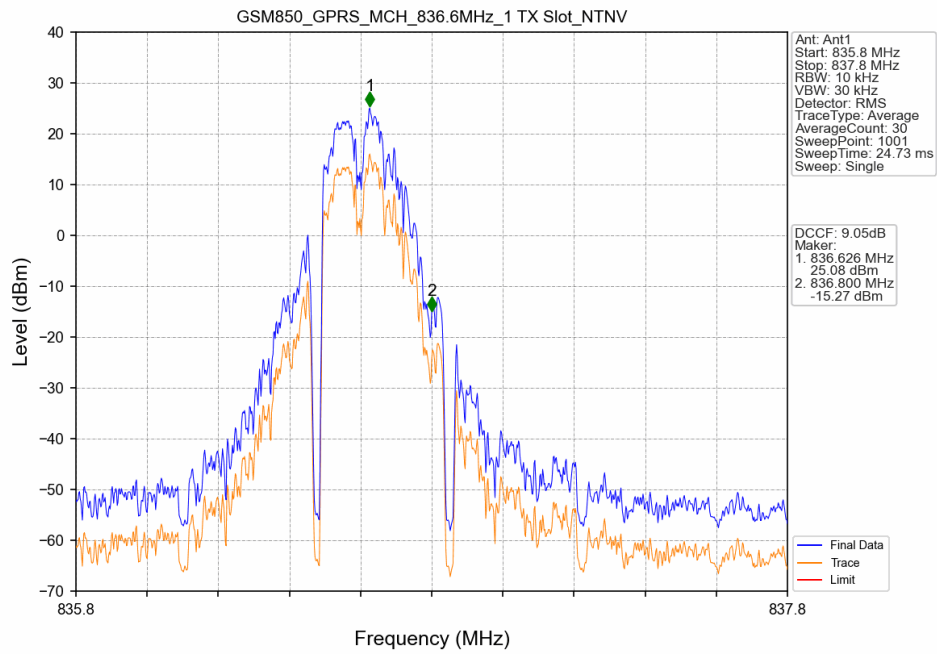
5.1.1 Test Result

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

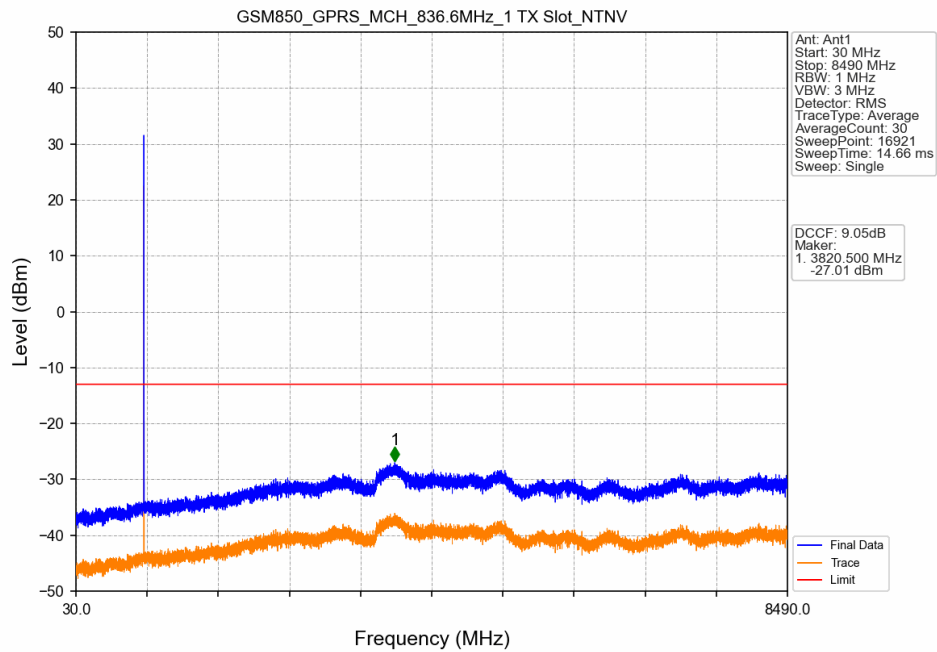
5.1.2 Test Graph



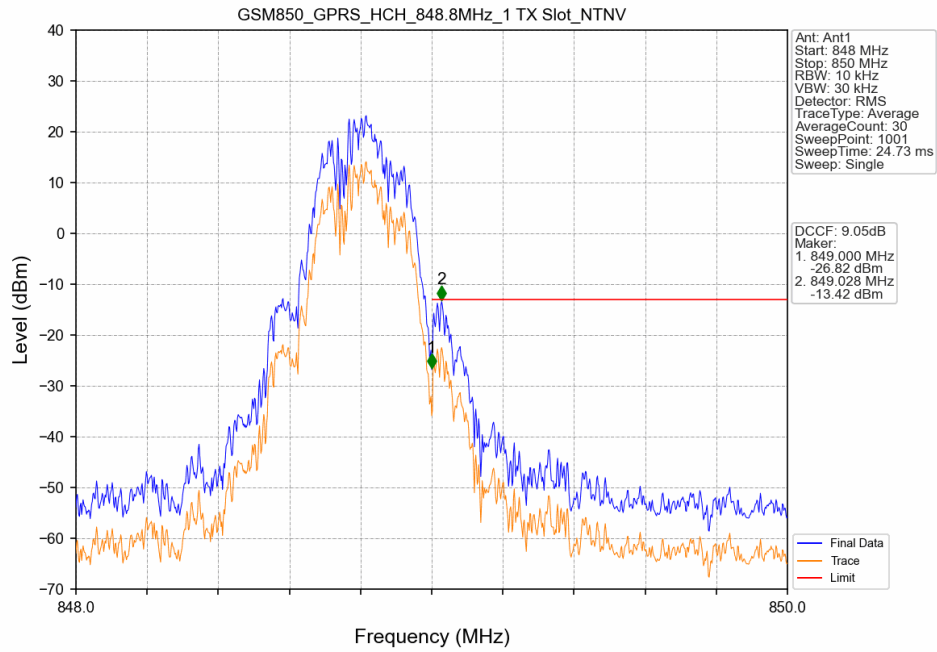
GSM850 GPRS MCH 836.6MHz 1 TX Slot_NTNV



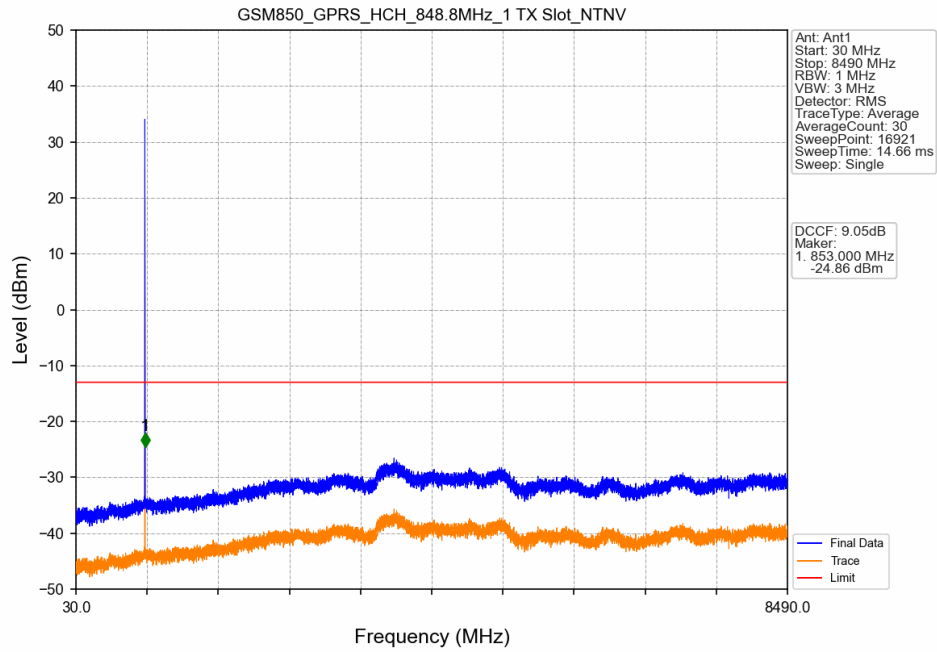
GSM850 GPRS MCH 836.6MHz 1 TX Slot_NTNV



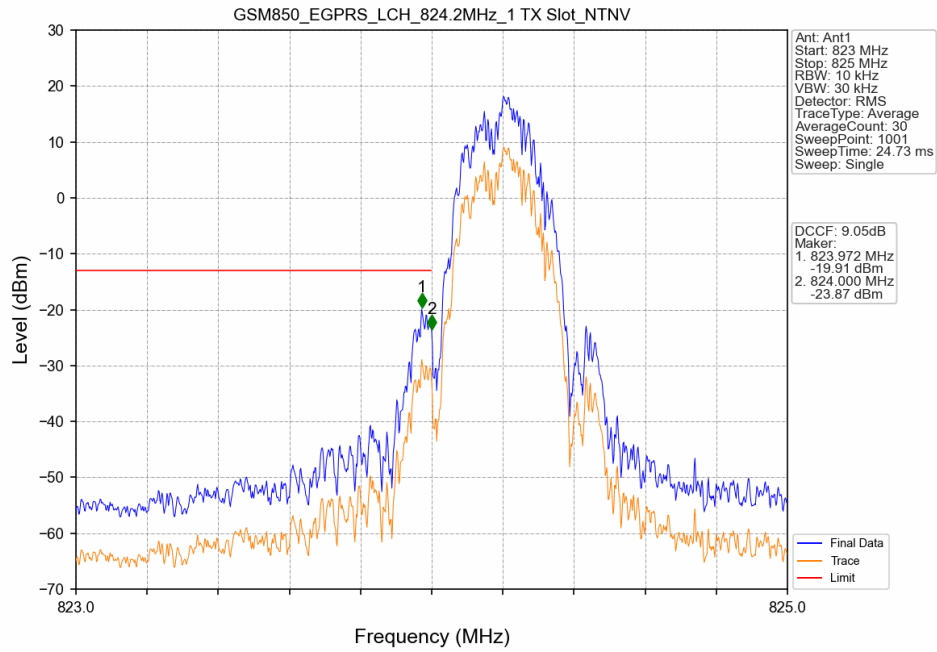
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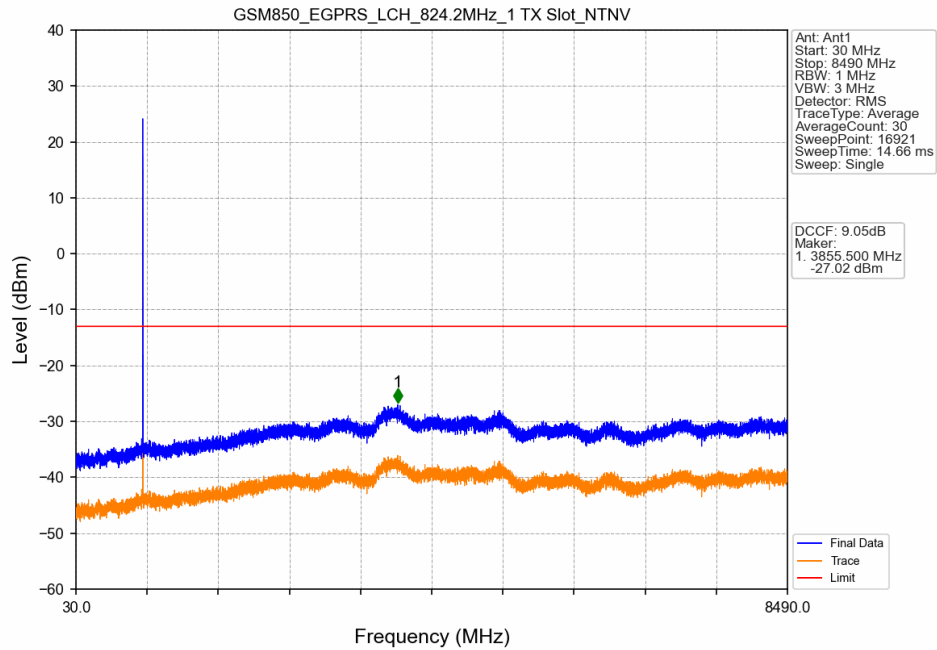
GSM850_GPRS_HCH_848.8MHz_1_TX_Slot_NTNV



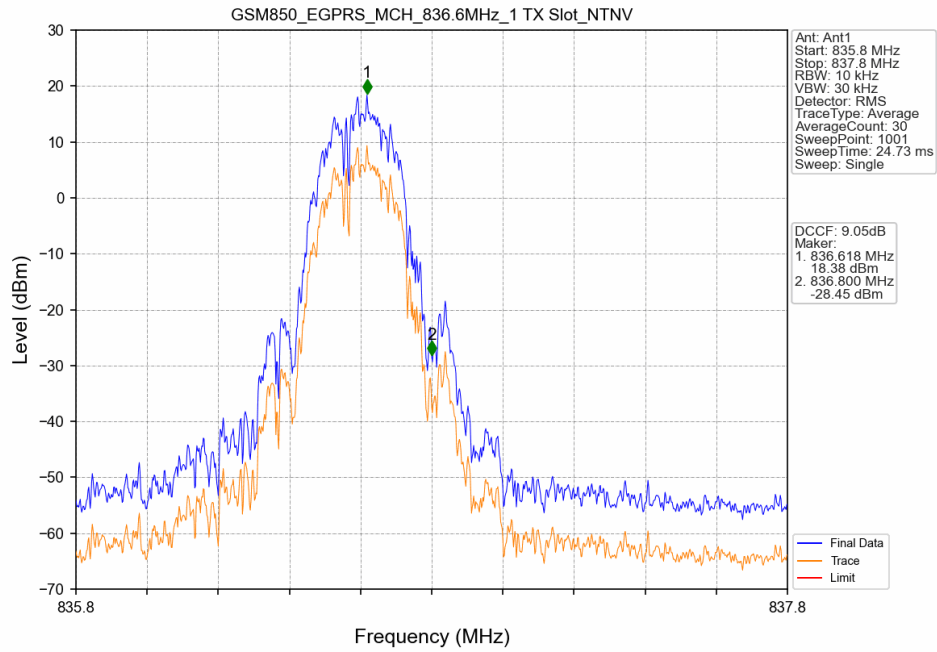
GSM850 EGPRS LCH 824.2MHz 1 TX Slot NTNV



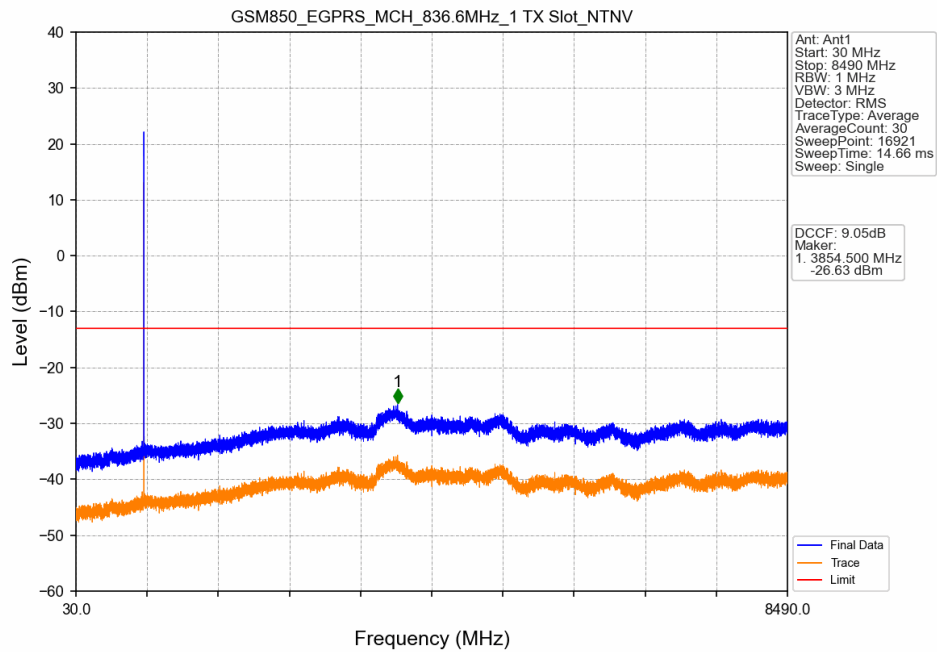
GSM850 EGPRS LCH 824.2MHz 1 TX Slot NTNV



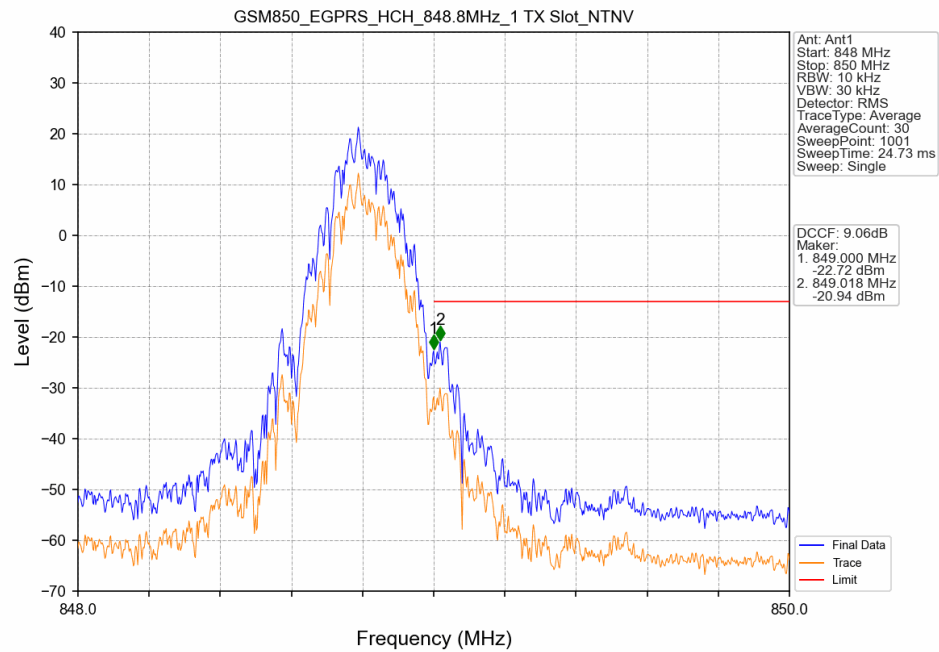
GSM850 EGPRS MCH 836.6MHz 1 TX Slot NTN



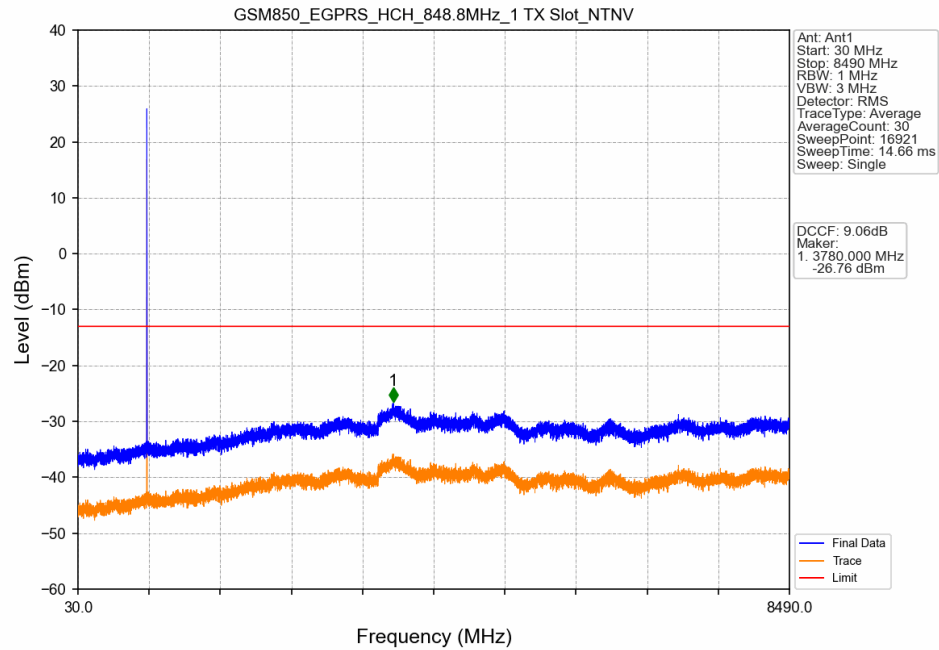
GSM850 EGPRS MCH 836.6MHz 1 TX Slot NTN



GSM850 EGPRS HCH 848.8MHz 1 TX Slot NTN



GSM850 EGPRS HCH 848.8MHz 1 TX Slot NTN



6. Form731

6.1 Form731_Power

6.1.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
GSM850	0.2	824.2	848.8	2.3121	0.0169	ppm	249KGXW	22H	33.64
GSM850	0.2	824.2	848.8	0.6383	0.0308	ppm	248KG7W	22H	28.05

6.2 Form731_ERP

6.2.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
GSM850	0.2	824.2	848.8	3.1769	0.0169	ppm	249KGXW	22H	35.02
GSM850	0.2	824.2	848.8	0.8770	0.0308	ppm	248KG7W	22H	29.43