

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	31.07	-2.90	26.02	<=38.45	Pass
		2 TX Slots	824.2	29.93	-2.90	24.88	<=38.45	Pass
		3 TX Slots	824.2	27.97	-2.90	22.92	<=38.45	Pass
		4 TX Slots	824.2	26.97	-2.90	21.92	<=38.45	Pass
		1 TX Slot	836.6	30.98	-2.90	25.93	<=38.45	Pass
		2 TX Slots	836.6	29.94	-2.90	24.89	<=38.45	Pass
		3 TX Slots	836.6	28.02	-2.90	22.97	<=38.45	Pass
		4 TX Slots	836.6	27.04	-2.90	21.99	<=38.45	Pass
		1 TX Slot	848.8	31.13	-2.90	26.08	<=38.45	Pass
		2 TX Slots	848.8	30.01	-2.90	24.96	<=38.45	Pass
		3 TX Slots	848.8	28.03	-2.90	22.98	<=38.45	Pass
		4 TX Slots	848.8	27.06	-2.90	22.01	<=38.45	Pass
	EGPRS	1 TX Slot	824.2	26.91	-2.90	21.86	<=38.45	Pass
		2 TX Slots	824.2	27.23	-2.90	22.18	<=38.45	Pass
		3 TX Slots	824.2	24.50	-2.90	19.45	<=38.45	Pass
		4 TX Slots	824.2	23.42	-2.90	18.37	<=38.45	Pass
		1 TX Slot	836.6	27.09	-2.90	22.04	<=38.45	Pass
		2 TX Slots	836.6	26.27	-2.90	21.22	<=38.45	Pass
		3 TX Slots	836.6	24.60	-2.90	19.55	<=38.45	Pass
		4 TX Slots	836.6	23.63	-2.90	18.58	<=38.45	Pass
1 TX Slot	848.8	26.87	-2.90	21.82	<=38.45	Pass		
2 TX Slots	848.8	26.13	-2.90	21.08	<=38.45	Pass		
3 TX Slots	848.8	24.38	-2.90	19.33	<=38.45	Pass		
4 TX Slots	848.8	23.48	-2.90	18.43	<=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	12	6.339	0.0077	-2.5 to 2.5	Pass
			24	-0.189	-0.0002	-2.5 to 2.5	Pass
			48	5.851	0.0071	-2.5 to 2.5	Pass
		-30	24	4.801	0.0058	-2.5 to 2.5	Pass
		-20	24	3.012	0.0037	-2.5 to 2.5	Pass
		-10	24	5.951	0.0072	-2.5 to 2.5	Pass
		0	24	2.269	0.0028	-2.5 to 2.5	Pass
		10	24	1.484	0.0018	-2.5 to 2.5	Pass

		30	24	2.087	0.0025	-2.5 to 2.5	Pass
		40	24	5.868	0.0071	-2.5 to 2.5	Pass
		50	24	2.679	0.0033	-2.5 to 2.5	Pass
	836.6	20	12	5.459	0.0065	-2.5 to 2.5	Pass
			24	3.077	0.0037	-2.5 to 2.5	Pass
			48	-0.308	-0.0004	-2.5 to 2.5	Pass
		-30	24	4.444	0.0053	-2.5 to 2.5	Pass
		-20	24	5.315	0.0064	-2.5 to 2.5	Pass
		-10	24	1.465	0.0018	-2.5 to 2.5	Pass
		0	24	5.632	0.0067	-2.5 to 2.5	Pass
		10	24	0.587	0.0007	-2.5 to 2.5	Pass
		30	24	1.603	0.0019	-2.5 to 2.5	Pass
		40	24	2.549	0.0030	-2.5 to 2.5	Pass
		50	24	3.462	0.0041	-2.5 to 2.5	Pass
	848.8	20	12	7.976	0.0094	-2.5 to 2.5	Pass
			24	3.299	0.0039	-2.5 to 2.5	Pass
			48	5.158	0.0061	-2.5 to 2.5	Pass
		-30	24	5.166	0.0061	-2.5 to 2.5	Pass
		-20	24	5.531	0.0065	-2.5 to 2.5	Pass
		-10	24	8.183	0.0096	-2.5 to 2.5	Pass
		0	24	4.789	0.0056	-2.5 to 2.5	Pass
10		24	6.652	0.0078	-2.5 to 2.5	Pass	
30		24	8.507	0.0100	-2.5 to 2.5	Pass	
40		24	2.443	0.0029	-2.5 to 2.5	Pass	
50		24	6.914	0.0081	-2.5 to 2.5	Pass	
EGPRS	824.2	20	12	-7.381	-0.0090	-2.5 to 2.5	Pass
			24	-1.815	-0.0022	-2.5 to 2.5	Pass
			48	-11.099	-0.0135	-2.5 to 2.5	Pass
		-30	24	-1.531	-0.0019	-2.5 to 2.5	Pass
		-20	24	-3.997	-0.0048	-2.5 to 2.5	Pass
		-10	24	-4.260	-0.0052	-2.5 to 2.5	Pass
		0	24	-7.824	-0.0095	-2.5 to 2.5	Pass
		10	24	-0.361	-0.0004	-2.5 to 2.5	Pass
		30	24	-2.676	-0.0032	-2.5 to 2.5	Pass
		40	24	-5.588	-0.0068	-2.5 to 2.5	Pass
		50	24	-4.906	-0.0060	-2.5 to 2.5	Pass
	836.6	20	12	-11.755	-0.0141	-2.5 to 2.5	Pass
			24	-8.530	-0.0102	-2.5 to 2.5	Pass
			48	-8.122	-0.0097	-2.5 to 2.5	Pass
		-30	24	-7.647	-0.0091	-2.5 to 2.5	Pass
		-20	24	-1.293	-0.0015	-2.5 to 2.5	Pass
		-10	24	-6.381	-0.0076	-2.5 to 2.5	Pass
		0	24	-10.062	-0.0120	-2.5 to 2.5	Pass
		10	24	-2.394	-0.0029	-2.5 to 2.5	Pass
		30	24	-5.531	-0.0066	-2.5 to 2.5	Pass
		40	24	-8.614	-0.0103	-2.5 to 2.5	Pass
		50	24	-5.434	-0.0065	-2.5 to 2.5	Pass
	848.8	20	12	-7.428	-0.0088	-2.5 to 2.5	Pass
			24	-5.266	-0.0062	-2.5 to 2.5	Pass
			48	-5.110	-0.0060	-2.5 to 2.5	Pass
		-30	24	-9.107	-0.0107	-2.5 to 2.5	Pass
		-20	24	-8.517	-0.0100	-2.5 to 2.5	Pass
		-10	24	-7.105	-0.0084	-2.5 to 2.5	Pass
		0	24	-8.620	-0.0102	-2.5 to 2.5	Pass
		10	24	-15.740	-0.0185	-2.5 to 2.5	Pass
30		24	-12.195	-0.0144	-2.5 to 2.5	Pass	
40		24	-7.603	-0.0090	-2.5 to 2.5	Pass	

		50	24	-6.547	-0.0077	-2.5 to 2.5	Pass
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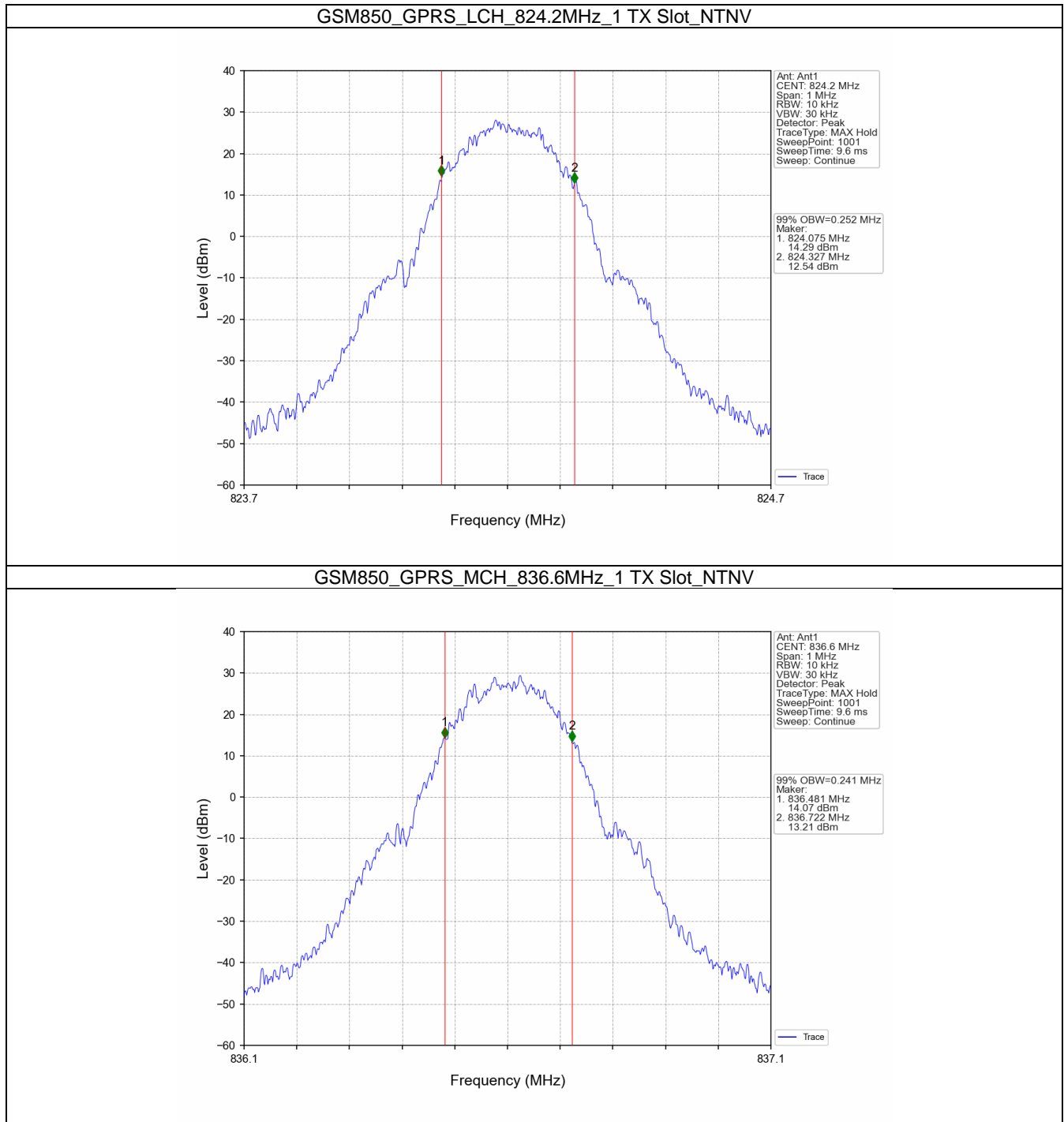
3. 99% & 26dB Bandwidth

3.1 GSM850_OBW

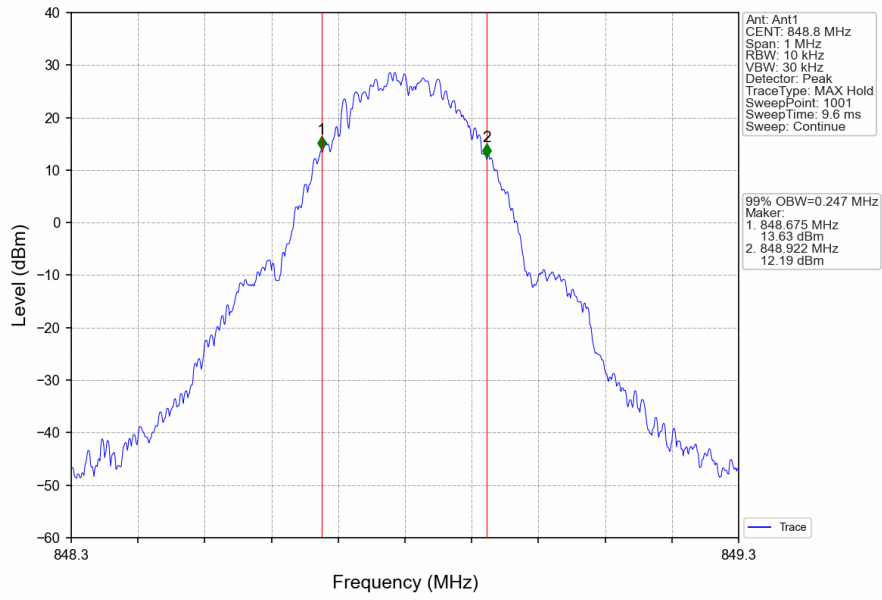
3.1.1 Test Result

Band: GSM850						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	824.2	0.252	/	Pass
			836.6	0.241	/	Pass
			848.8	0.247	/	Pass
	EGPRS	1 TX Slot	824.2	0.252	/	Pass
			836.6	0.252	/	Pass
			848.8	0.247	/	Pass

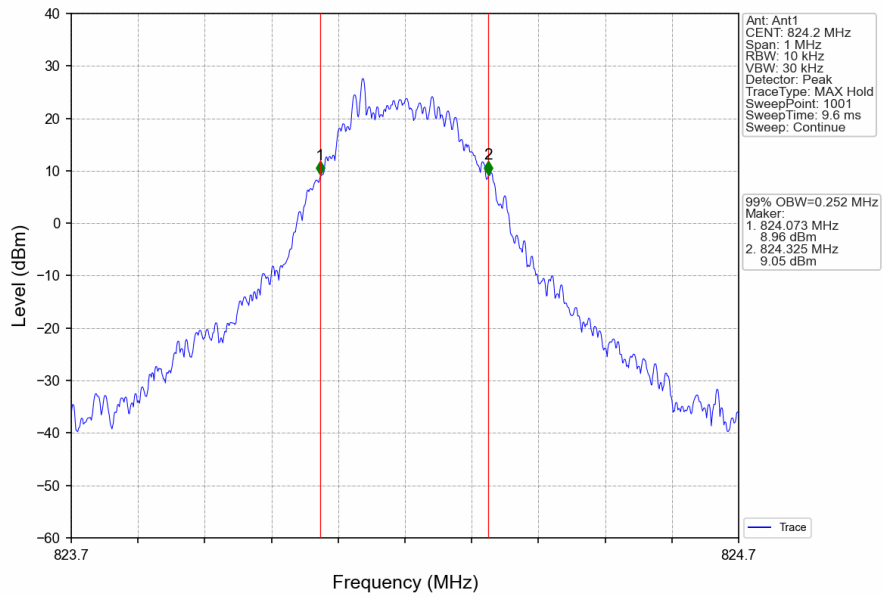
3.1.2 Test Graph



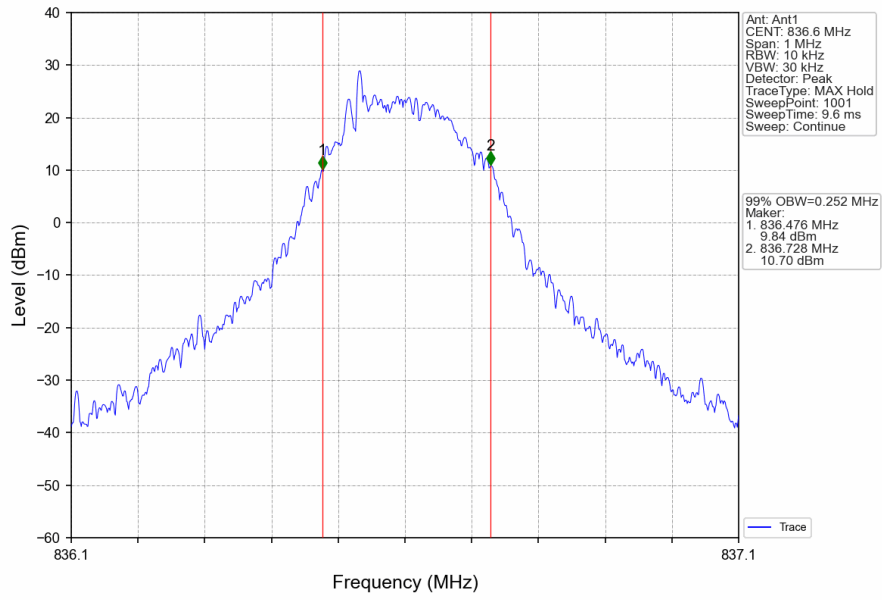
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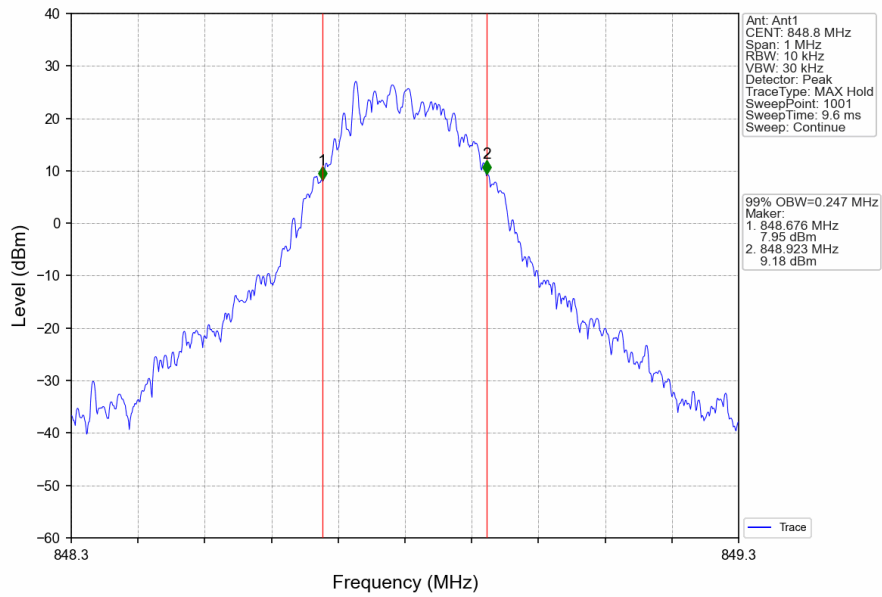
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV

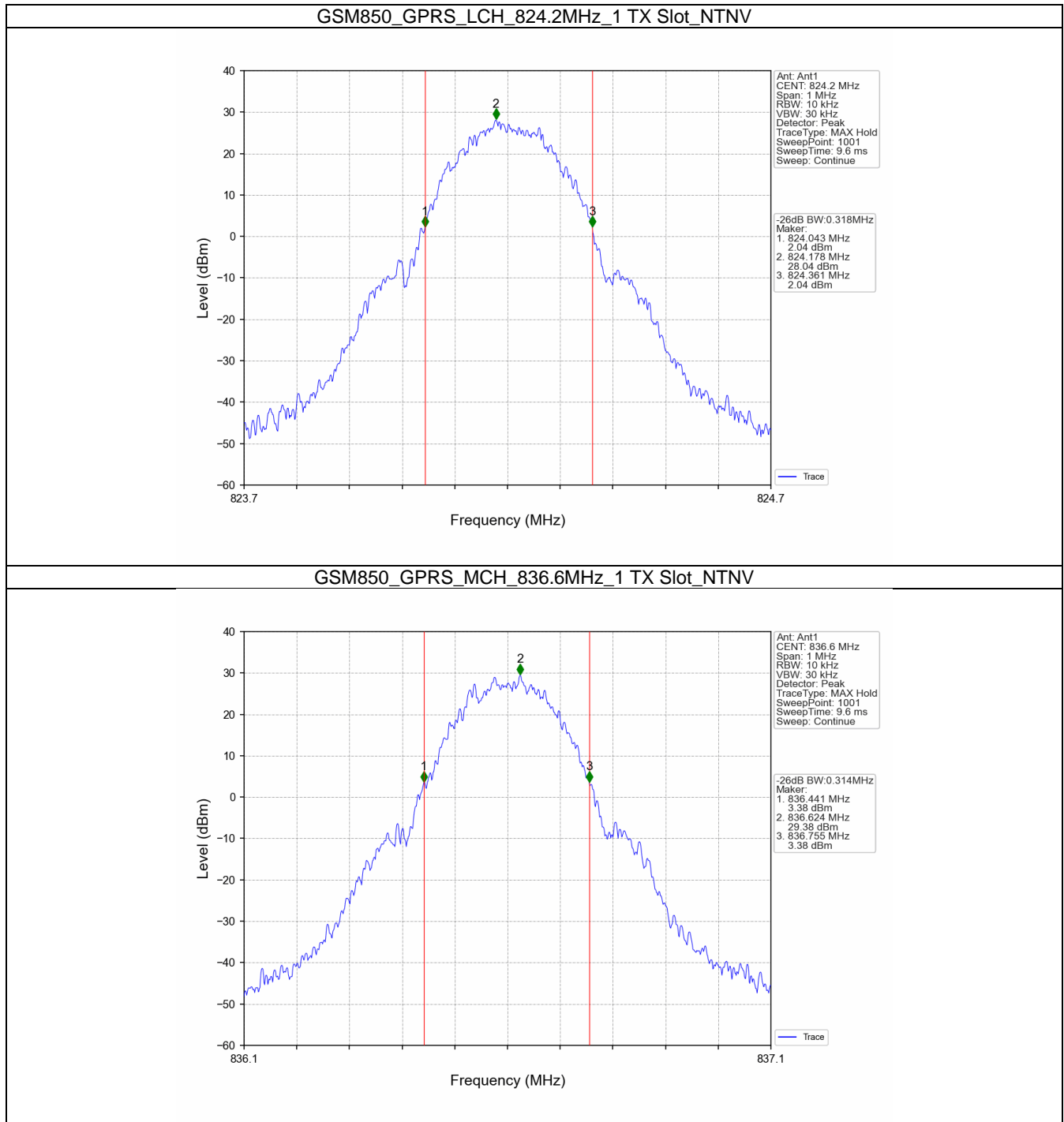


3.2 GSM850_XDB

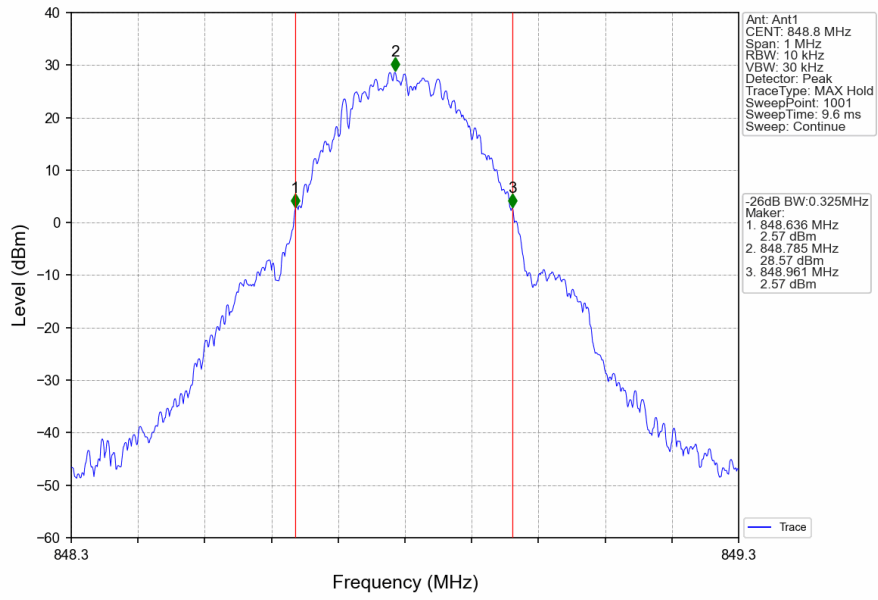
3.2.1 Test Result

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	0.314	/	Pass
			848.8	0.325	/	Pass
	EGPRS	1 TX Slot	824.2	0.315	/	Pass
			836.6	0.305	/	Pass
			848.8	0.309	/	Pass

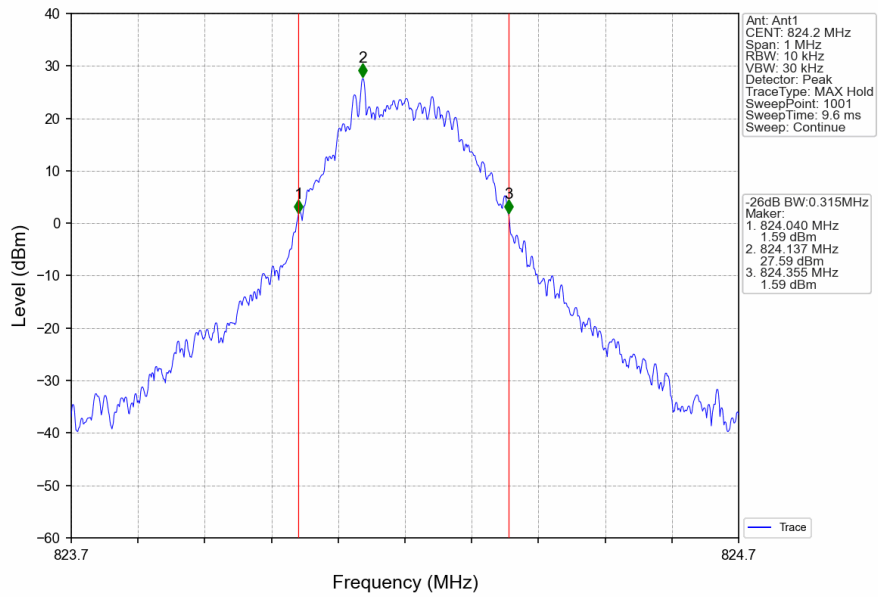
3.2.2 Test Graph



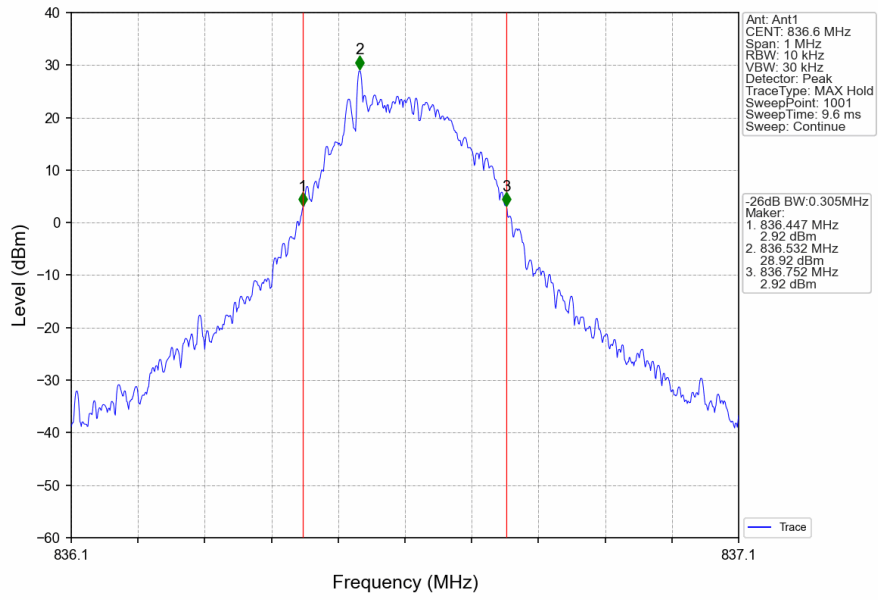
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



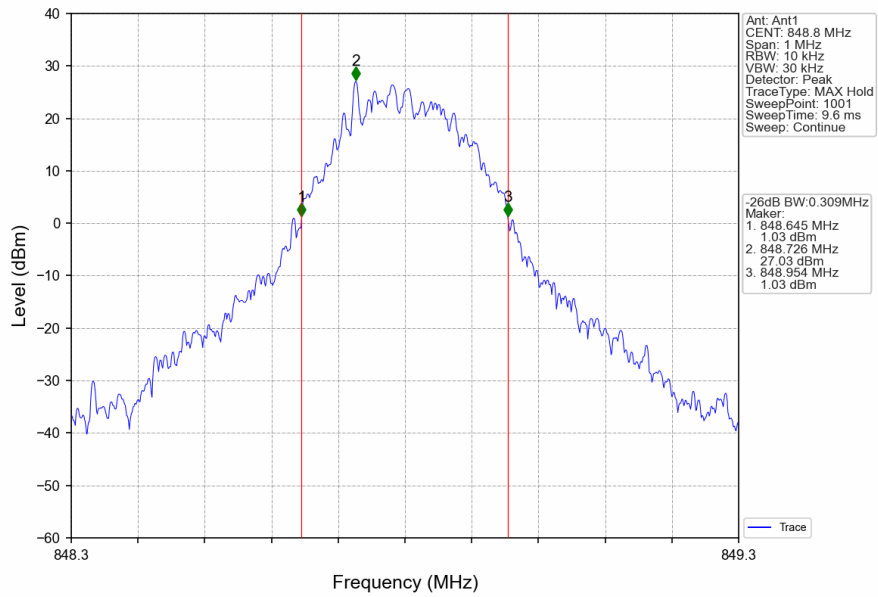
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV



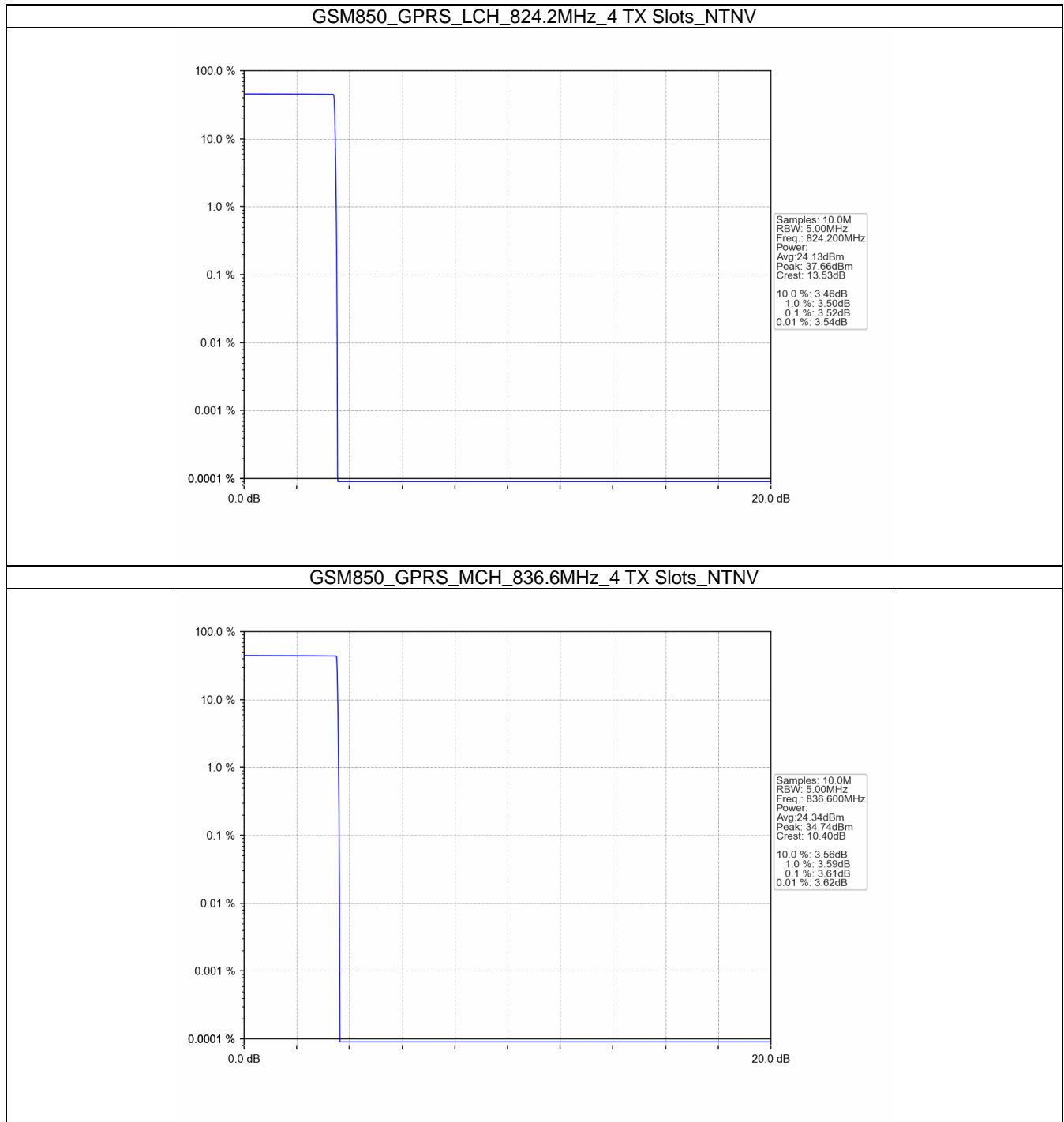
4. Peak-Average Ratio

4.1 GSM850

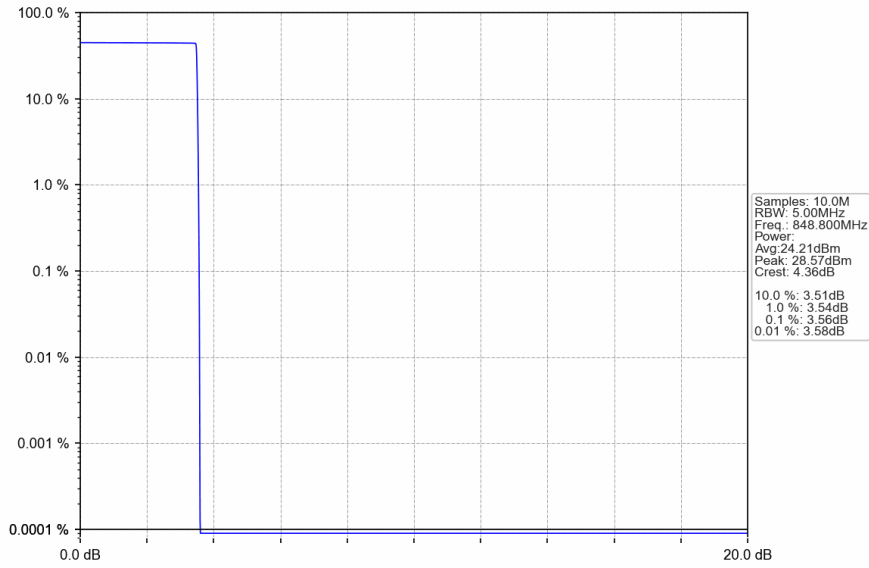
4.1.1 Test Result

Band: GSM850						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	824.2	3.52	<=13	Pass
			836.6	3.61	<=13	Pass
			848.8	3.56	<=13	Pass
	EGPRS	4 TX Slots	824.2	7.87	<=13	Pass
			836.6	7.69	<=13	Pass
			848.8	7.81	<=13	Pass

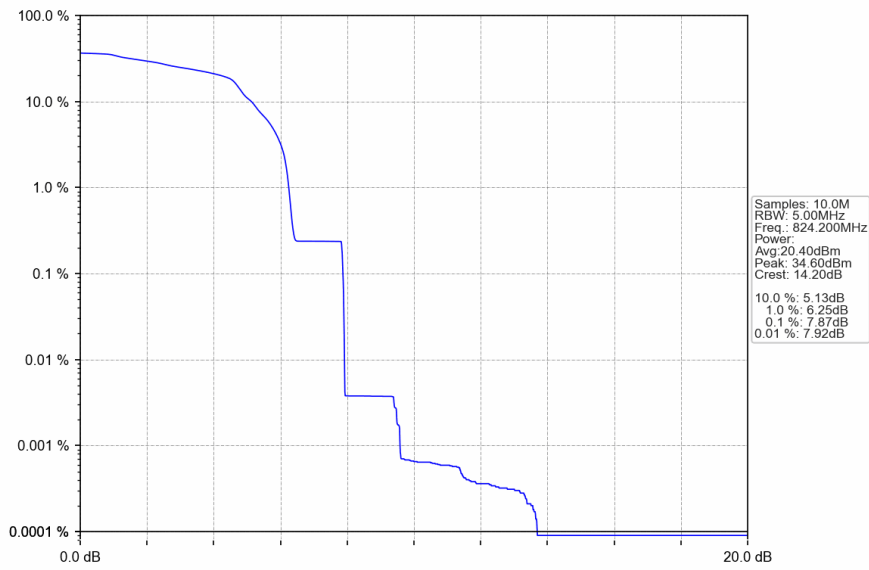
4.1.2 Test Graph



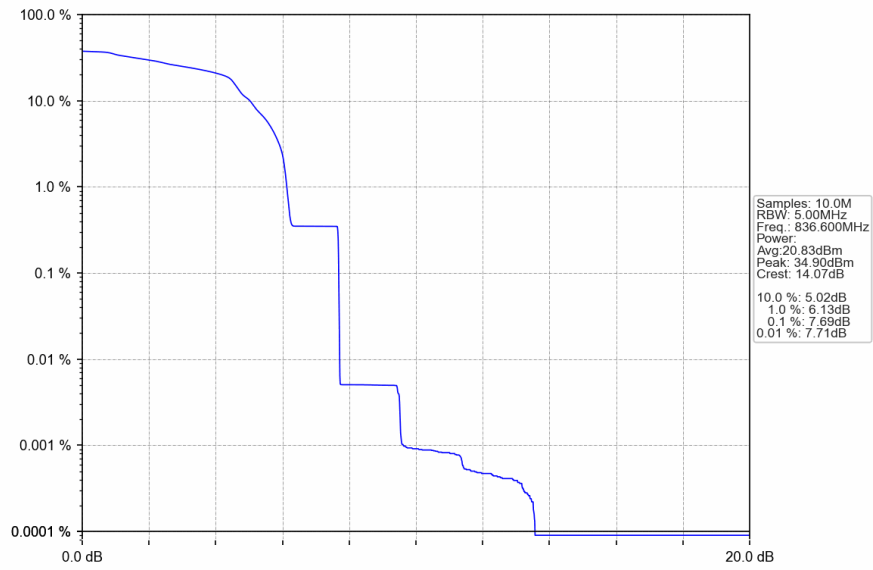
GSM850_GPRS_HCH_848.8MHz_4 TX Slots_NTNV



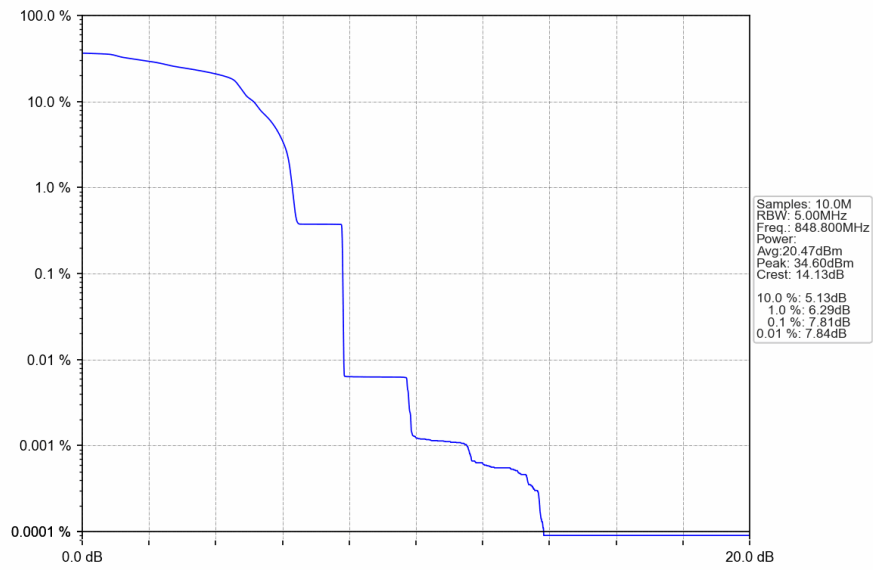
GSM850_EGPRS_LCH_824.2MHz_4 TX Slots_NTNV



GSM850_EGPRS_MCH_836.6MHz_4 TX Slots_NTNV



GSM850_EGPRS_HCH_848.8MHz_4 TX Slots_NTNV



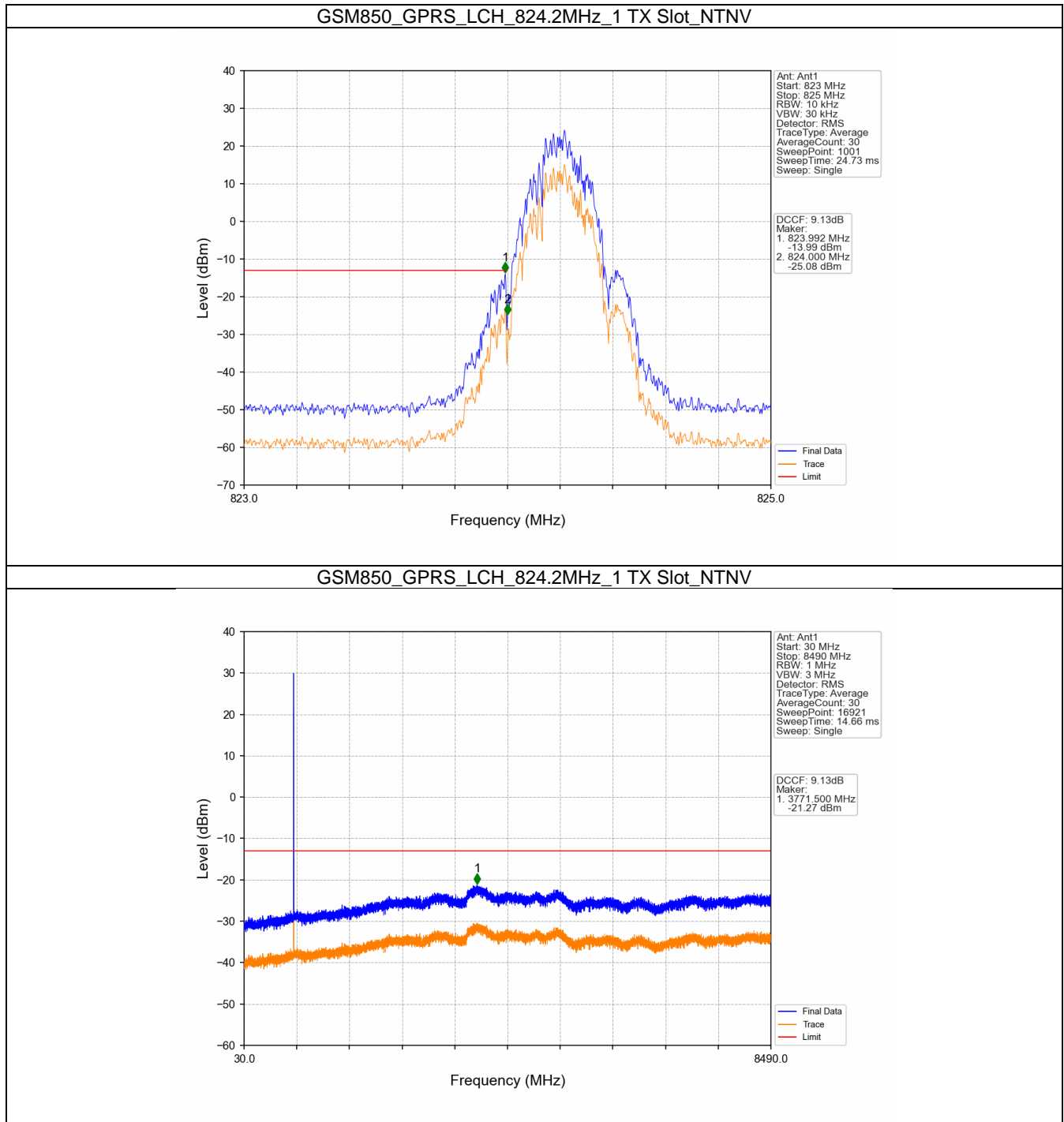
5. Spurious Emission

5.1 GSM850

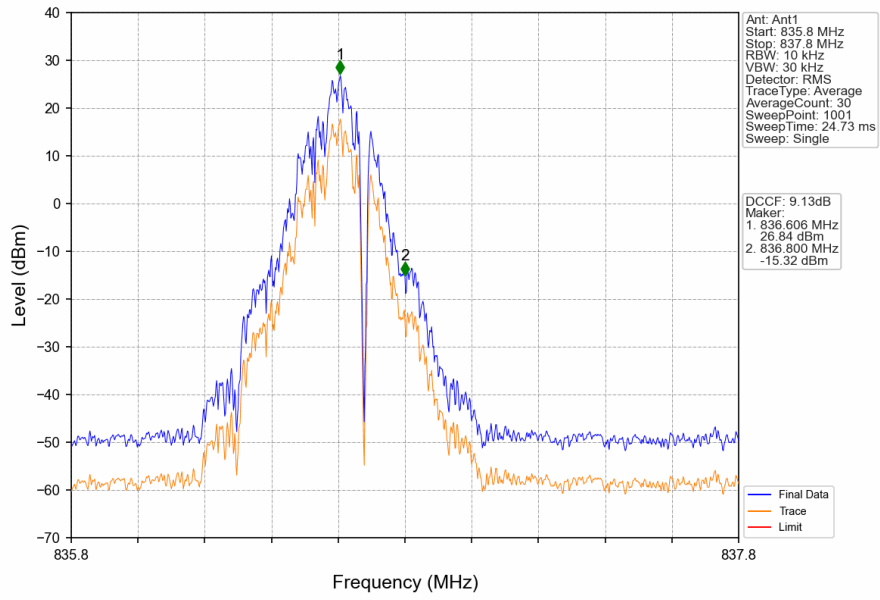
5.1.1 Test Result

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	

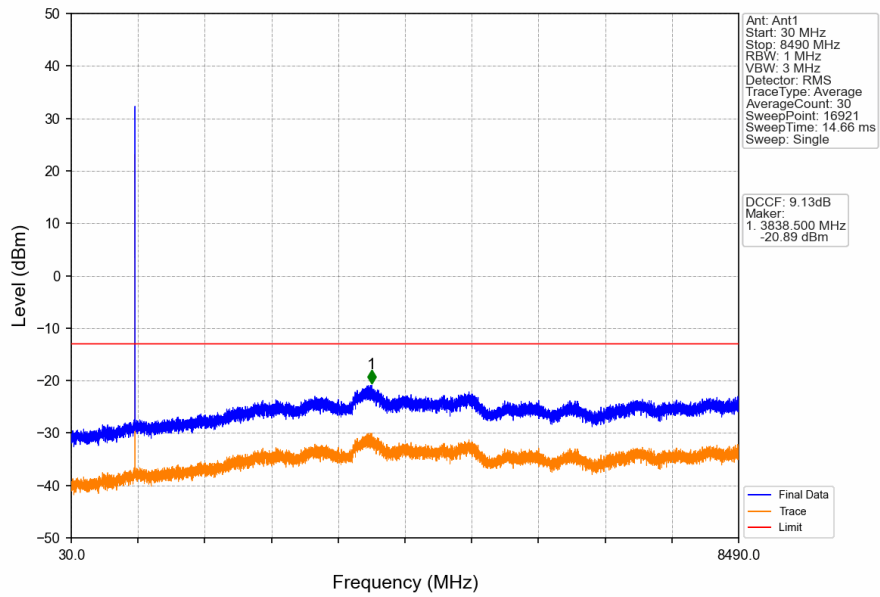
5.1.2 Test Graph



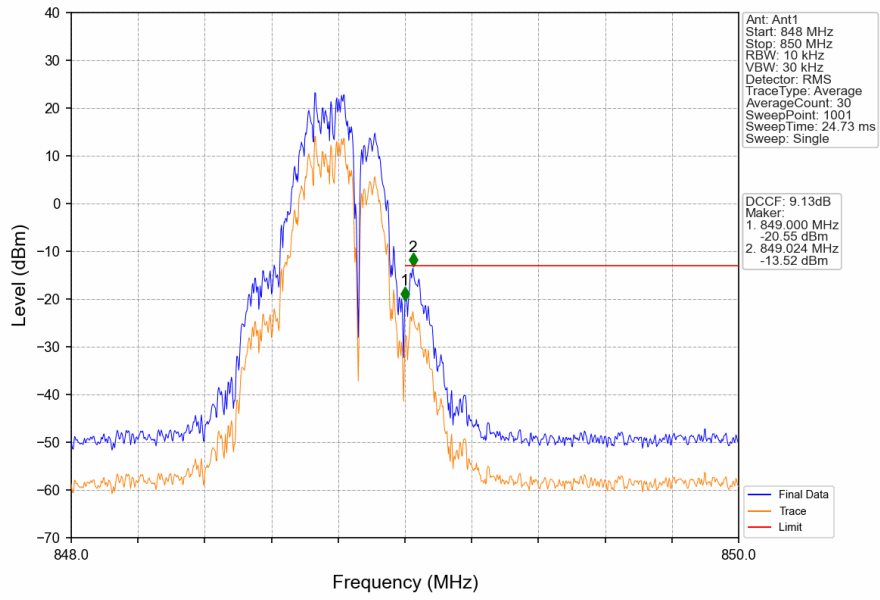
GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



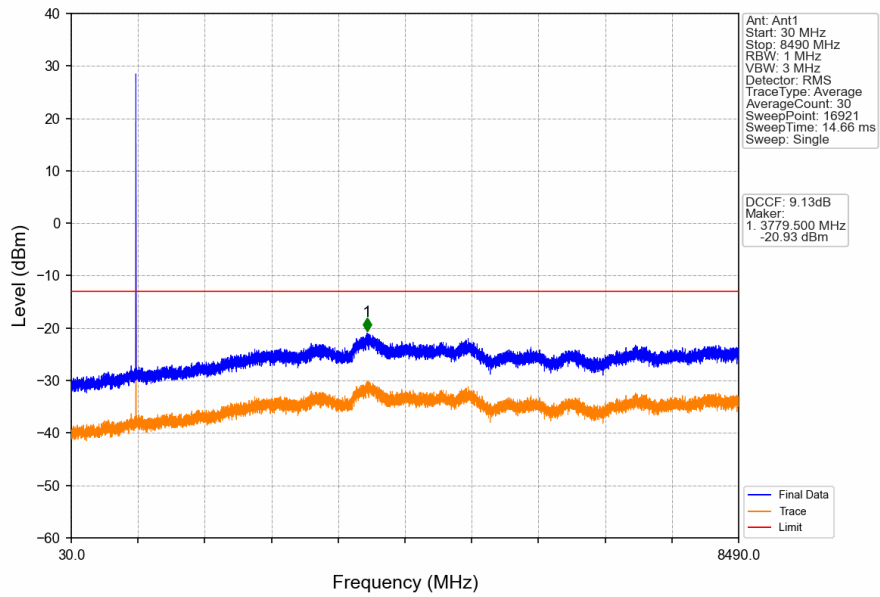
GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



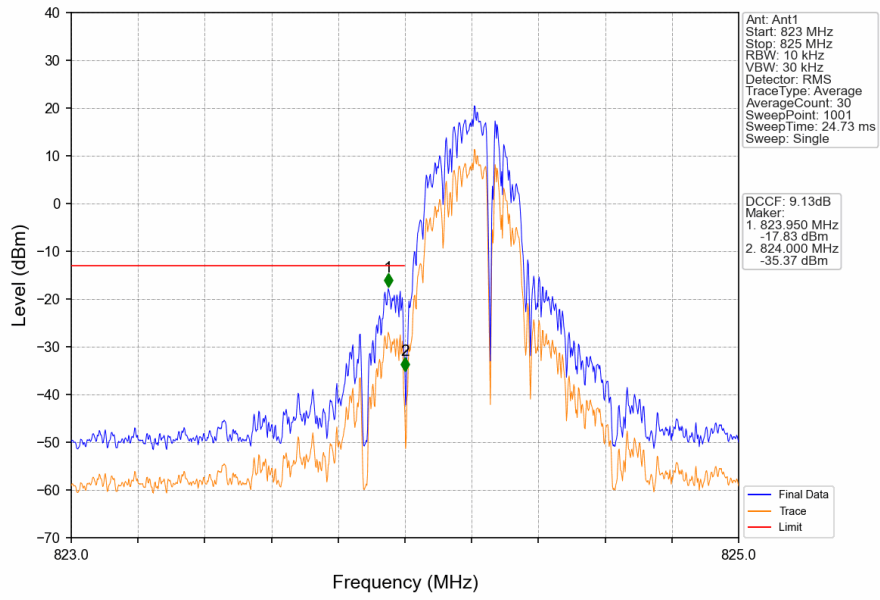
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



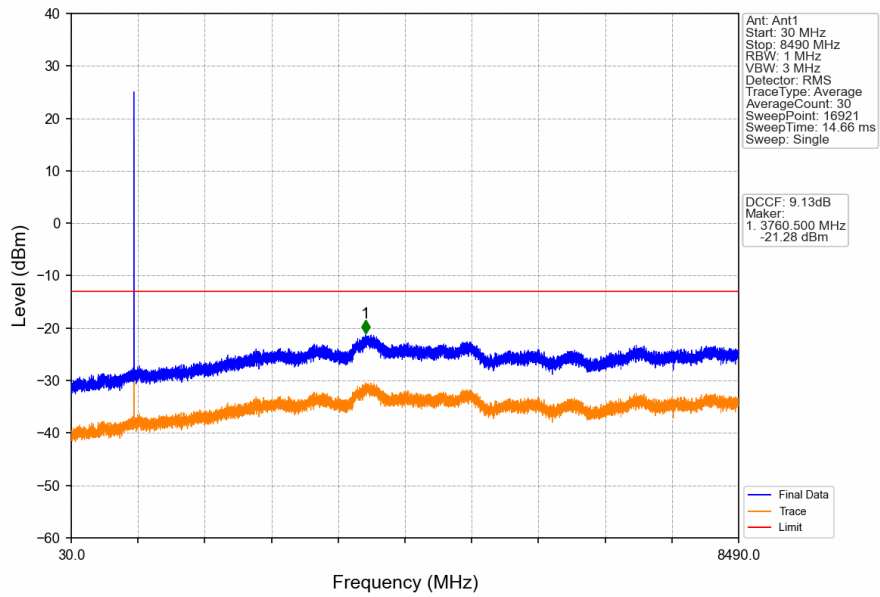
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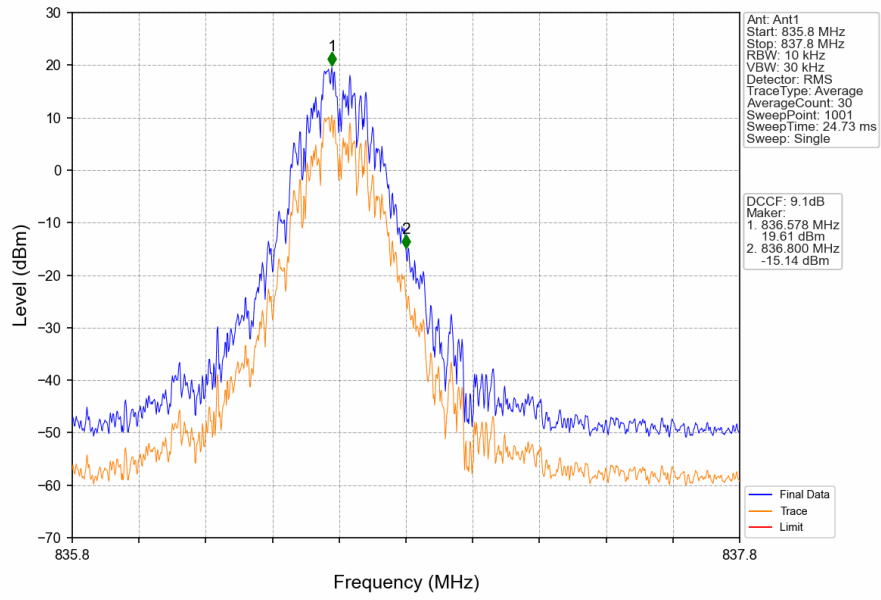
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



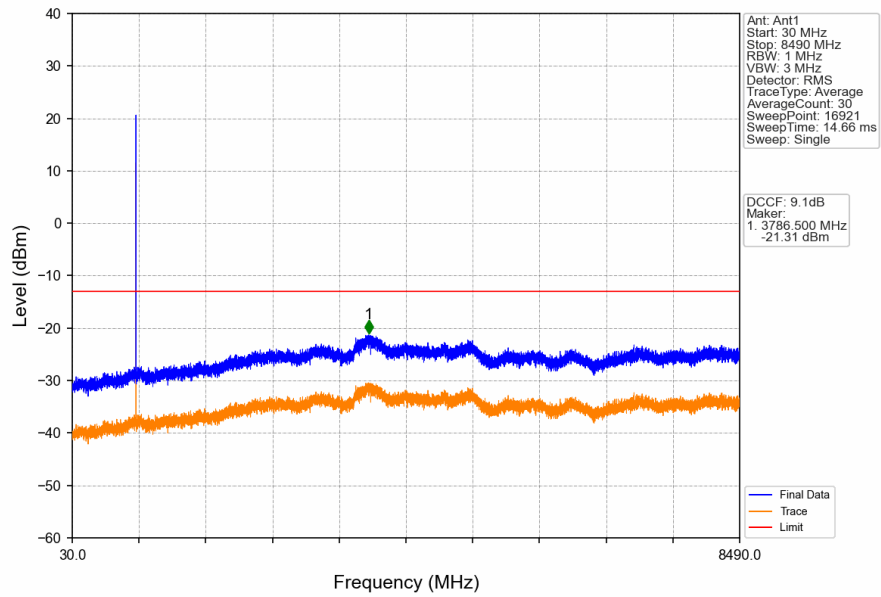
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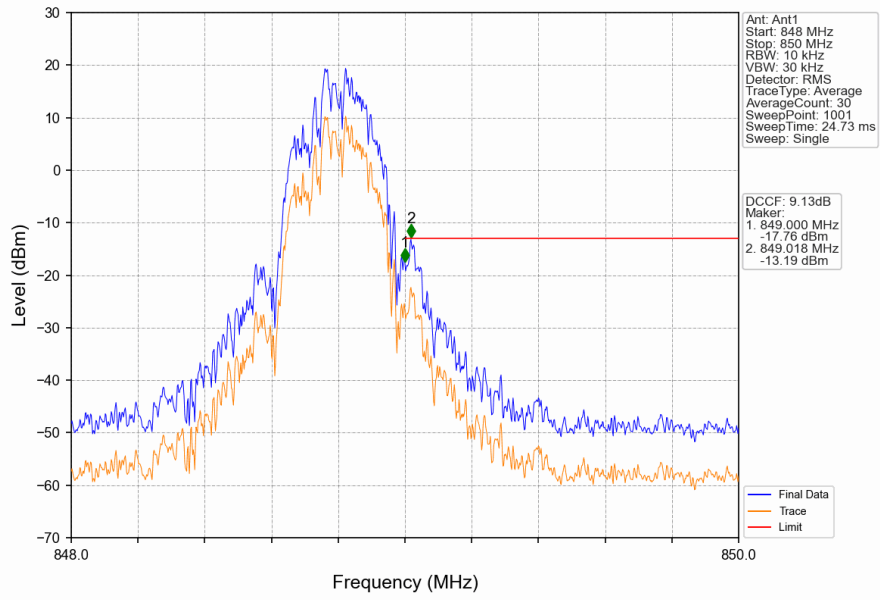
GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



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

