



**SGS-CSTC Standards Technical Services Co., Ltd.**  
**Shenzhen Branch**

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# Appendix B.1

## GSM 850



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## 1. Effective (Isotropic) Radiated Power Output Data

### 1.1 GSM850\_ERP

#### 1.1.1 Test Result\_Ant4

Band: GSM850								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	GSM	GSM	824.2	32.73	-5.1	25.48	<=38.45	Pass
			836.6	32.74	-5.1	25.49	<=38.45	Pass
			848.8	32.70	-5.1	25.45	<=38.45	Pass
	GPRS	1 TX Slot	824.2	32.70	-5.1	25.45	<=38.45	Pass
		2 TX Slots	824.2	30.37	-5.1	23.12	<=38.45	Pass
		3 TX Slots	824.2	28.50	-5.1	21.25	<=38.45	Pass
		4 TX Slots	824.2	27.50	-5.1	20.25	<=38.45	Pass
		1 TX Slot	836.6	32.72	-5.1	25.47	<=38.45	Pass
		2 TX Slots	836.6	30.41	-5.1	23.16	<=38.45	Pass
		3 TX Slots	836.6	28.53	-5.1	21.28	<=38.45	Pass
		4 TX Slots	836.6	27.53	-5.1	20.28	<=38.45	Pass
		1 TX Slot	848.8	32.69	-5.1	25.44	<=38.45	Pass
		2 TX Slots	848.8	30.28	-5.1	23.03	<=38.45	Pass
		3 TX Slots	848.8	28.35	-5.1	21.1	<=38.45	Pass
		4 TX Slots	848.8	27.32	-5.1	20.07	<=38.45	Pass
	EGPRS	1 TX Slot	824.2	26.93	-5.1	19.68	<=38.45	Pass
		2 TX Slots	824.2	23.79	-5.1	16.54	<=38.45	Pass
		3 TX Slots	824.2	24.04	-5.1	16.79	<=38.45	Pass
		4 TX Slots	824.2	20.51	-5.1	13.26	<=38.45	Pass
		1 TX Slot	836.6	26.88	-5.1	19.63	<=38.45	Pass
		2 TX Slots	836.6	25.07	-5.1	17.82	<=38.45	Pass
		3 TX Slots	836.6	21.66	-5.1	14.41	<=38.45	Pass
		4 TX Slots	836.6	20.51	-5.1	13.26	<=38.45	Pass
		1 TX Slot	848.8	26.74	-5.1	19.49	<=38.45	Pass
		2 TX Slots	848.8	23.79	-5.1	16.54	<=38.45	Pass
		3 TX Slots	848.8	21.44	-5.1	14.19	<=38.45	Pass
		4 TX Slots	848.8	20.40	-5.1	13.15	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15



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## 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	
GSM	824.2	20	3.6	-7.426	-0.0090	-2.5 to 2.5	Pass
			3.84	-5.779	-0.0070	-2.5 to 2.5	Pass
			4.3	-7.490	-0.0091	-2.5 to 2.5	Pass
		-30	3.84	-4.520	-0.0055	-2.5 to 2.5	Pass
		-20	3.84	-1.550	-0.0019	-2.5 to 2.5	Pass
		-10	3.84	-4.391	-0.0053	-2.5 to 2.5	Pass
		0	3.84	-5.133	-0.0062	-2.5 to 2.5	Pass
		10	3.84	-6.780	-0.0082	-2.5 to 2.5	Pass
		30	3.84	-7.135	-0.0087	-2.5 to 2.5	Pass
		40	3.84	-5.295	-0.0064	-2.5 to 2.5	Pass
		50	3.84	-4.197	-0.0051	-2.5 to 2.5	Pass
	836.6	20	3.6	-2.421	-0.0029	-2.5 to 2.5	Pass
			3.84	-4.003	-0.0048	-2.5 to 2.5	Pass
			4.3	-5.844	-0.0070	-2.5 to 2.5	Pass
		-30	3.84	-3.390	-0.0041	-2.5 to 2.5	Pass
		-20	3.84	-1.291	-0.0015	-2.5 to 2.5	Pass
		-10	3.84	-3.229	-0.0039	-2.5 to 2.5	Pass
		0	3.84	-3.132	-0.0037	-2.5 to 2.5	Pass
		10	3.84	-5.618	-0.0067	-2.5 to 2.5	Pass
		30	3.84	-3.648	-0.0044	-2.5 to 2.5	Pass
		40	3.84	-1.679	-0.0020	-2.5 to 2.5	Pass
		50	3.84	-2.163	-0.0026	-2.5 to 2.5	Pass
	848.8	20	3.6	-2.486	-0.0029	-2.5 to 2.5	Pass
			3.84	-3.325	-0.0039	-2.5 to 2.5	Pass
			4.3	-8.814	-0.0104	-2.5 to 2.5	Pass
		-30	3.84	-4.423	-0.0052	-2.5 to 2.5	Pass
		-20	3.84	-4.165	-0.0049	-2.5 to 2.5	Pass
		-10	3.84	-2.615	-0.0031	-2.5 to 2.5	Pass
		0	3.84	-6.909	-0.0081	-2.5 to 2.5	Pass
		10	3.84	-1.873	-0.0022	-2.5 to 2.5	Pass
		30	3.84	-4.552	-0.0054	-2.5 to 2.5	Pass
		40	3.84	-1.873	-0.0022	-2.5 to 2.5	Pass
		50	3.84	-4.972	-0.0059	-2.5 to 2.5	Pass
GPRS	824.2	20	3.6	-4.391	-0.0053	-2.5 to 2.5	Pass
			3.84	-3.584	-0.0043	-2.5 to 2.5	Pass
			4.3	-4.520	-0.0055	-2.5 to 2.5	Pass
		-30	3.84	-5.037	-0.0061	-2.5 to 2.5	Pass
		-20	3.84	-1.776	-0.0022	-2.5 to 2.5	Pass



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		-10	3.84	-7.006	-0.0085	-2.5 to 2.5	Pass
		0	3.84	-1.711	-0.0021	-2.5 to 2.5	Pass
		10	3.84	-3.003	-0.0036	-2.5 to 2.5	Pass
		30	3.84	-2.551	-0.0031	-2.5 to 2.5	Pass
		40	3.84	-5.037	-0.0061	-2.5 to 2.5	Pass
	836.6	50	3.84	-4.617	-0.0056	-2.5 to 2.5	Pass
		20	3.6	-4.811	-0.0058	-2.5 to 2.5	Pass
			3.84	-7.813	-0.0093	-2.5 to 2.5	Pass
			4.3	-6.845	-0.0082	-2.5 to 2.5	Pass
		-30	3.84	-5.004	-0.0060	-2.5 to 2.5	Pass
		-20	3.84	-3.842	-0.0046	-2.5 to 2.5	Pass
		-10	3.84	-1.711	-0.0020	-2.5 to 2.5	Pass
		0	3.84	-4.100	-0.0049	-2.5 to 2.5	Pass
		10	3.84	-5.941	-0.0071	-2.5 to 2.5	Pass
		30	3.84	-0.807	-0.0010	-2.5 to 2.5	Pass
		40	3.84	-3.035	-0.0036	-2.5 to 2.5	Pass
		50	3.84	-2.647	-0.0032	-2.5 to 2.5	Pass
	848.8	20	3.6	-3.907	-0.0046	-2.5 to 2.5	Pass
			3.84	-4.778	-0.0056	-2.5 to 2.5	Pass
			4.3	-2.228	-0.0026	-2.5 to 2.5	Pass
		-30	3.84	-4.197	-0.0049	-2.5 to 2.5	Pass
		-20	3.84	-4.036	-0.0048	-2.5 to 2.5	Pass
		-10	3.84	-1.259	-0.0015	-2.5 to 2.5	Pass
		0	3.84	-5.715	-0.0067	-2.5 to 2.5	Pass
		10	3.84	-3.293	-0.0039	-2.5 to 2.5	Pass
		30	3.84	-1.453	-0.0017	-2.5 to 2.5	Pass
		40	3.84	-5.844	-0.0069	-2.5 to 2.5	Pass
		50	3.84	-5.263	-0.0062	-2.5 to 2.5	Pass
EGPRS	824.2	20	3.6	-3.325	-0.0040	-2.5 to 2.5	Pass
			3.84	-3.842	-0.0047	-2.5 to 2.5	Pass
			4.3	-4.165	-0.0051	-2.5 to 2.5	Pass
		-30	3.84	-0.323	-0.0004	-2.5 to 2.5	Pass
		-20	3.84	-3.261	-0.0040	-2.5 to 2.5	Pass
		-10	3.84	-3.939	-0.0048	-2.5 to 2.5	Pass
		0	3.84	-4.778	-0.0058	-2.5 to 2.5	Pass
		10	3.84	-7.845	-0.0095	-2.5 to 2.5	Pass
		30	3.84	-2.195	-0.0027	-2.5 to 2.5	Pass
		40	3.84	-5.133	-0.0062	-2.5 to 2.5	Pass
		50	3.84	-4.681	-0.0057	-2.5 to 2.5	Pass
	836.6	20	3.6	-4.423	-0.0053	-2.5 to 2.5	Pass
			3.84	-2.002	-0.0024	-2.5 to 2.5	Pass
			4.3	-6.134	-0.0073	-2.5 to 2.5	Pass
		-30	3.84	-2.873	-0.0034	-2.5 to 2.5	Pass
		-20	3.84	-3.519	-0.0042	-2.5 to 2.5	Pass
		-10	3.84	-4.423	-0.0053	-2.5 to 2.5	Pass
		0	3.84	-1.905	-0.0023	-2.5 to 2.5	Pass
		10	3.84	-4.811	-0.0058	-2.5 to 2.5	Pass
		30	3.84	-3.390	-0.0041	-2.5 to 2.5	Pass
		40	3.84	-2.325	-0.0028	-2.5 to 2.5	Pass



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	848.8	50	3.84	-3.035	-0.0036	-2.5 to 2.5	Pass
		20	3.6	-2.809	-0.0033	-2.5 to 2.5	Pass
			3.84	-4.100	-0.0048	-2.5 to 2.5	Pass
			4.3	-2.906	-0.0034	-2.5 to 2.5	Pass
		-30	3.84	-1.517	-0.0018	-2.5 to 2.5	Pass
		-20	3.84	-0.839	-0.0010	-2.5 to 2.5	Pass
		-10	3.84	-3.551	-0.0042	-2.5 to 2.5	Pass
		0	3.84	-5.263	-0.0062	-2.5 to 2.5	Pass
		10	3.84	-2.551	-0.0030	-2.5 to 2.5	Pass
		30	3.84	-2.680	-0.0032	-2.5 to 2.5	Pass
		40	3.84	-4.294	-0.0051	-2.5 to 2.5	Pass
		50	3.84	-4.229	-0.0050	-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	GSM	GSM	824.2	0.249	/	Pass
			836.6	0.248	/	Pass
			848.8	0.248	/	Pass
	GPRS	1 TX Slot	824.2	0.248	/	Pass
			836.6	0.247	/	Pass
			848.8	0.244	/	Pass
	EGPRS	1 TX Slot	824.2	0.244	/	Pass
			836.6	0.243	/	Pass
			848.8	0.246	/	Pass



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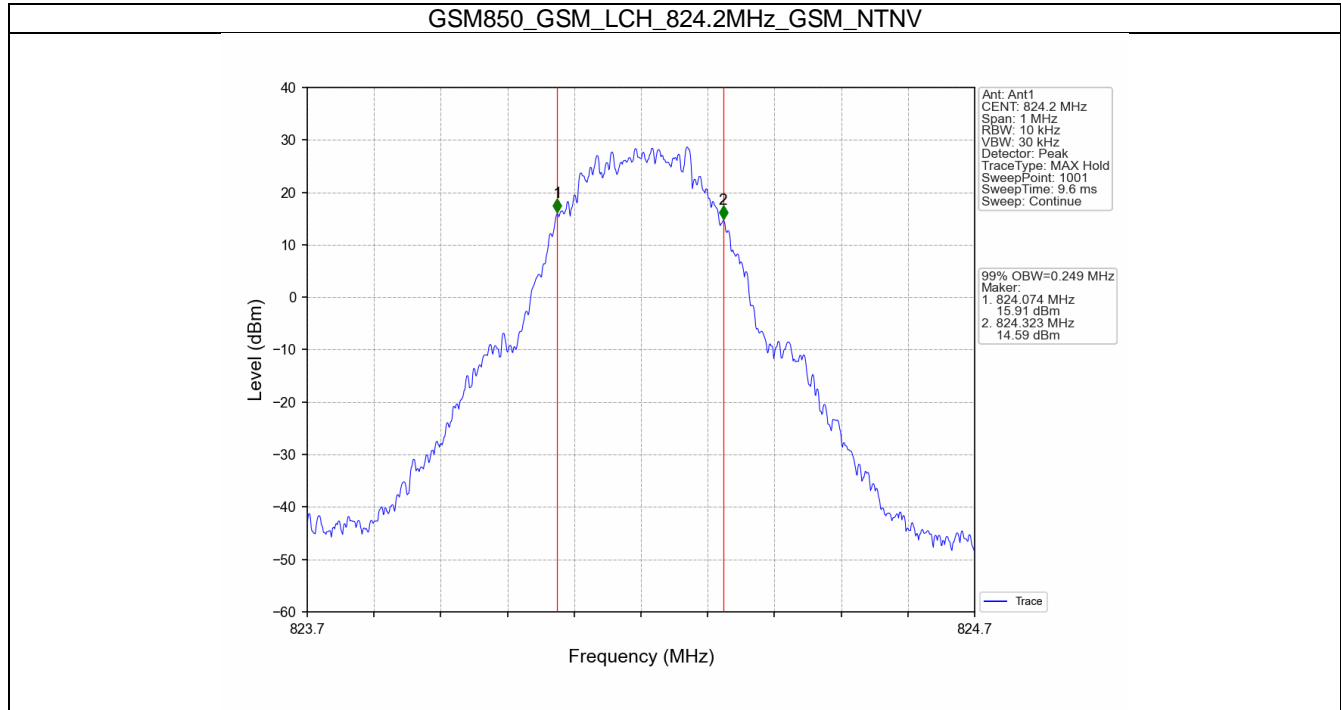
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## 3.1.2 Test Graph



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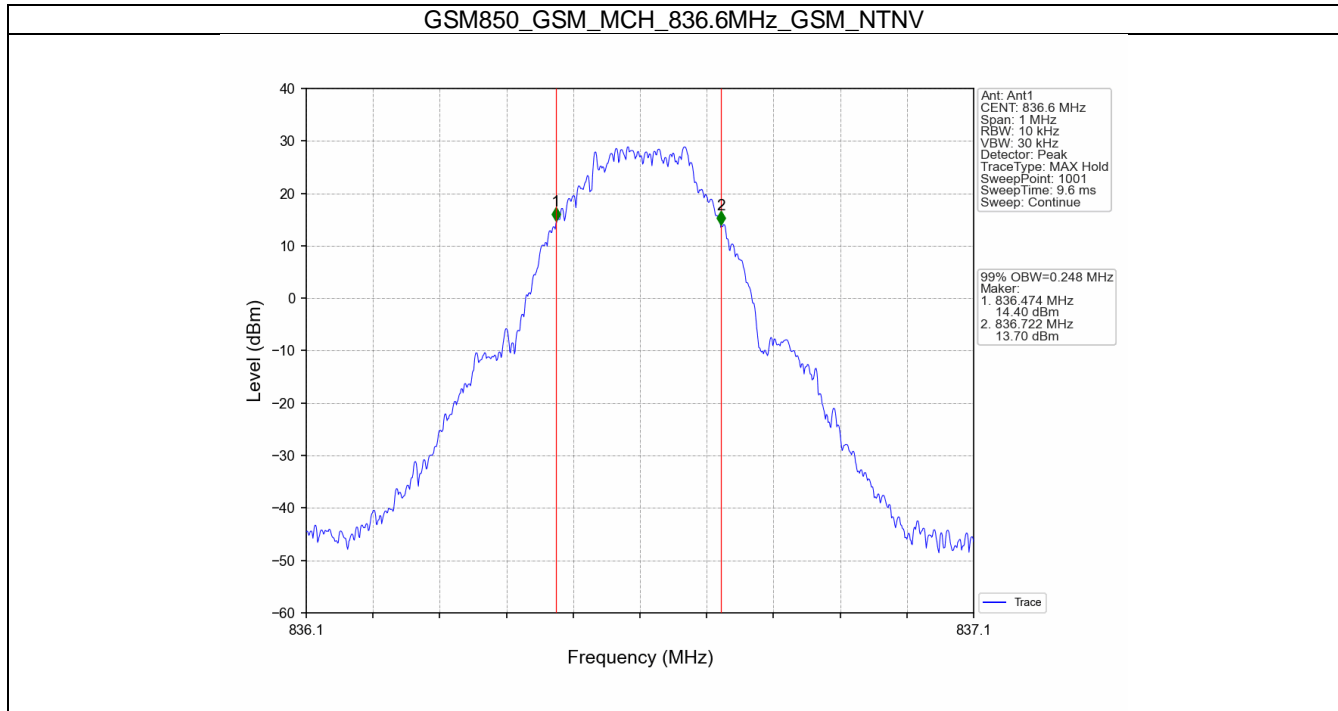


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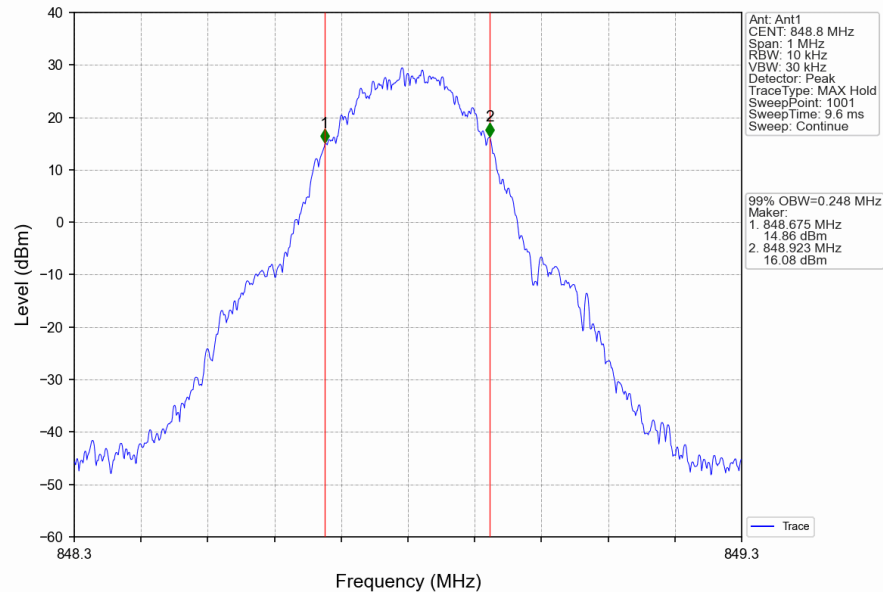
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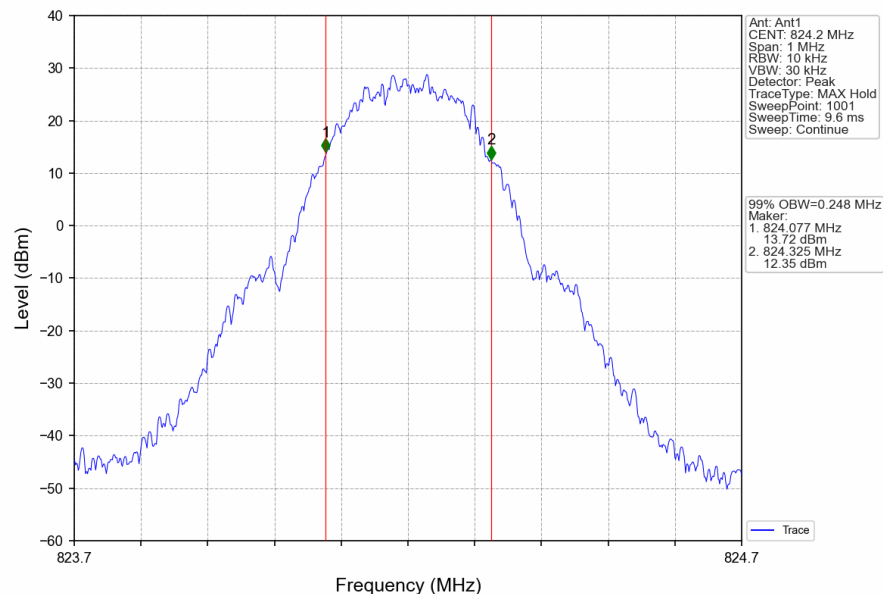
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GSM850\_GSM\_HCH\_848.8MHz\_GSM\_NTNV



GSM850\_GPRS\_LCH\_824.2MHz\_1 TX Slot\_NTNV



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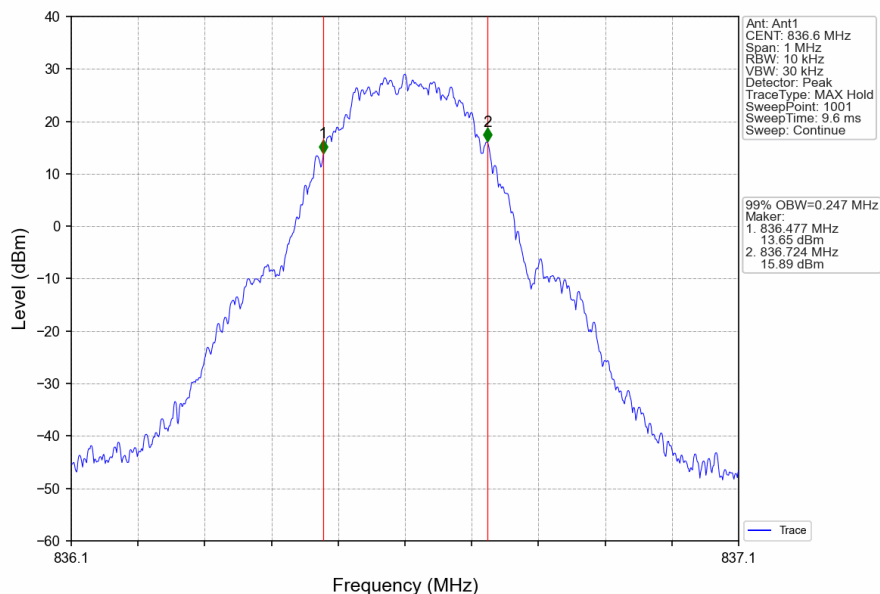
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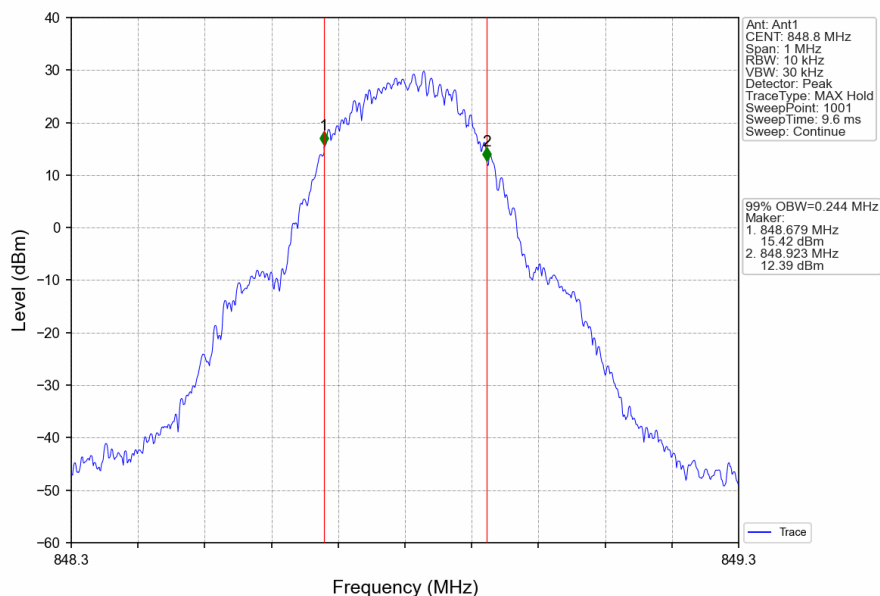
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GSM850\_GPRS\_MCH\_836.6MHz\_1 TX Slot\_NTNV



GSM850\_GPRS\_HCH\_848.8MHz\_1 TX Slot\_NTNV



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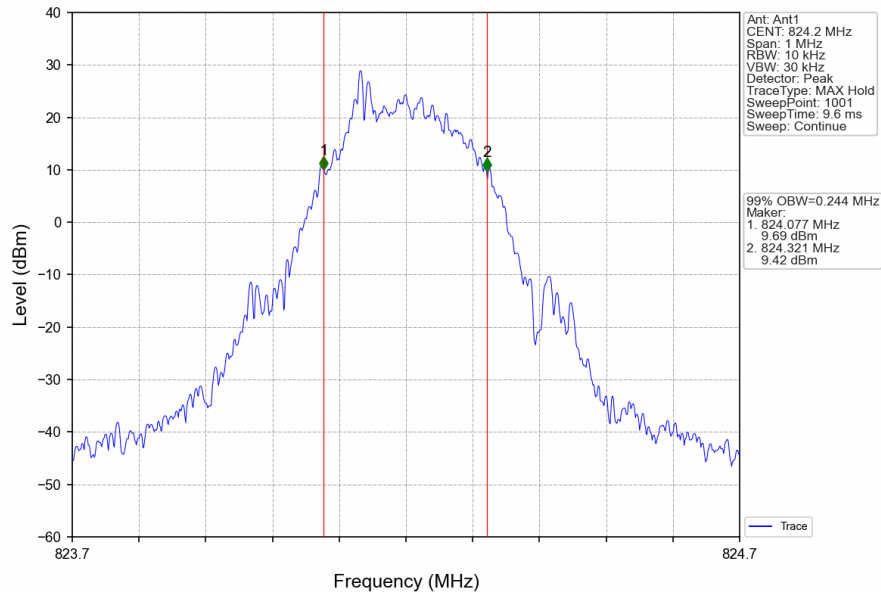
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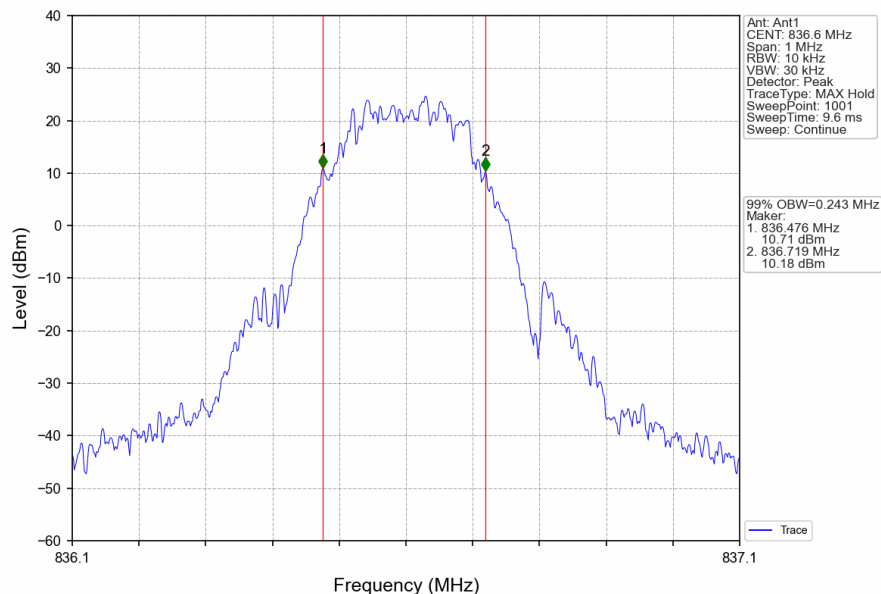
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GSM850\_EGPRS\_MCH\_836.6MHz\_1 TX Slot\_NTNV



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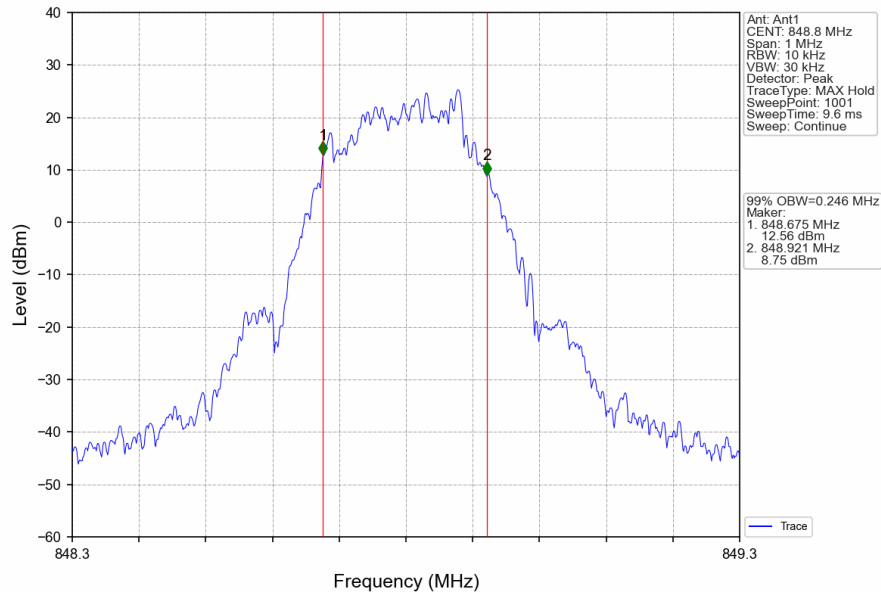
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## GSM850\_EGPRS\_HCH\_848.8MHz\_1 TX Slot\_NTNV



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## 3.2 GSM850\_XDB

### 3.2.1 Test Result

Band: GSM850						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	0.320	/	Pass
			836.6	0.322	/	Pass
			848.8	0.316	/	Pass
	GPRS	1 TX Slot	824.2	0.322	/	Pass
			836.6	0.316	/	Pass
			848.8	0.321	/	Pass
	EGPRS	1 TX Slot	824.2	0.294	/	Pass
			836.6	0.312	/	Pass
			848.8	0.305	/	Pass



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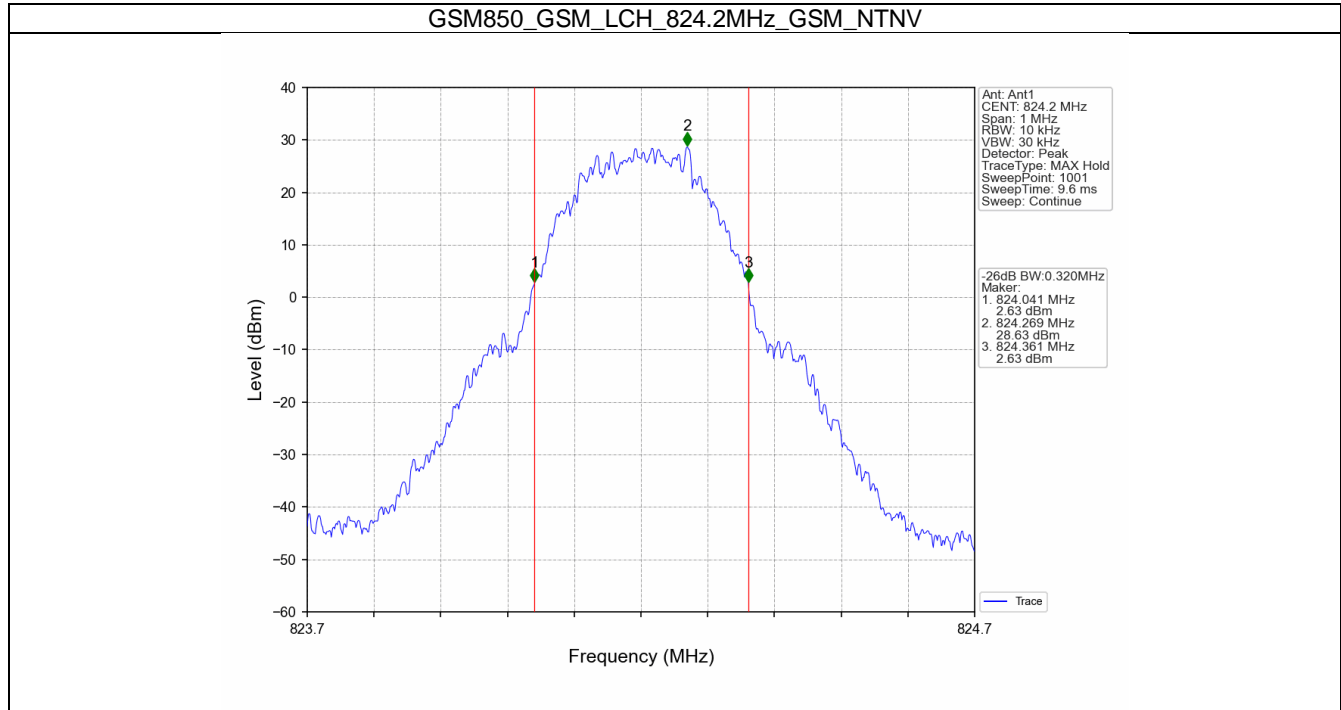




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## 3.2.2 Test Graph



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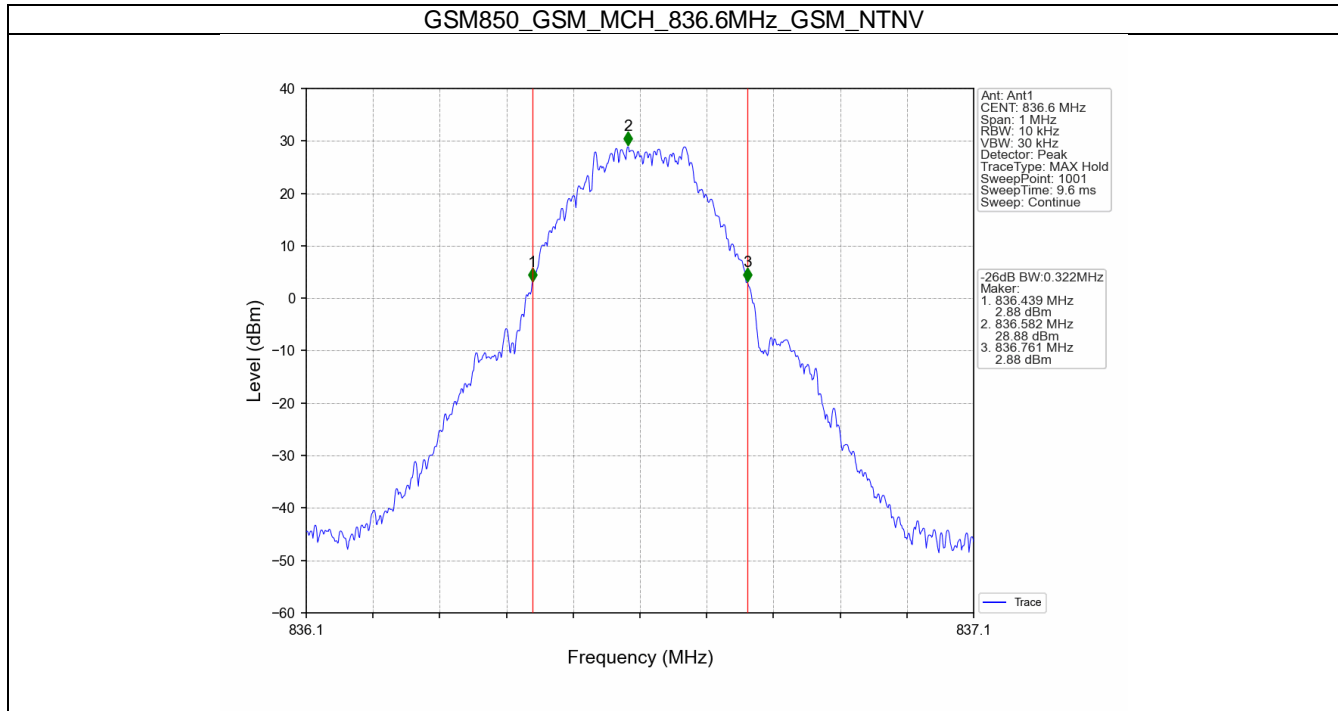


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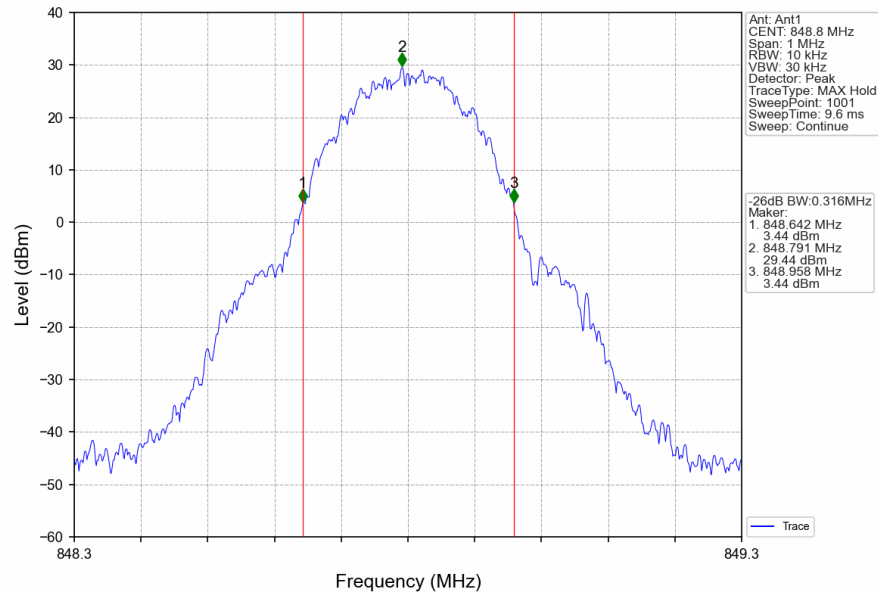
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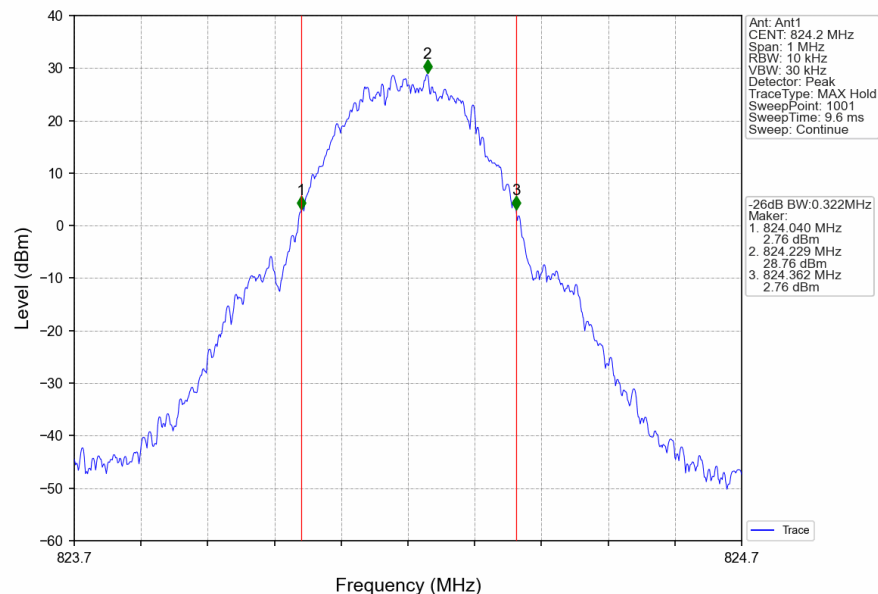
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GSM850\_GSM\_HCH\_848.8MHz\_GSM\_NTNV



GSM850\_GPRS\_LCH\_824.2MHz\_1 TX Slot\_NTNV



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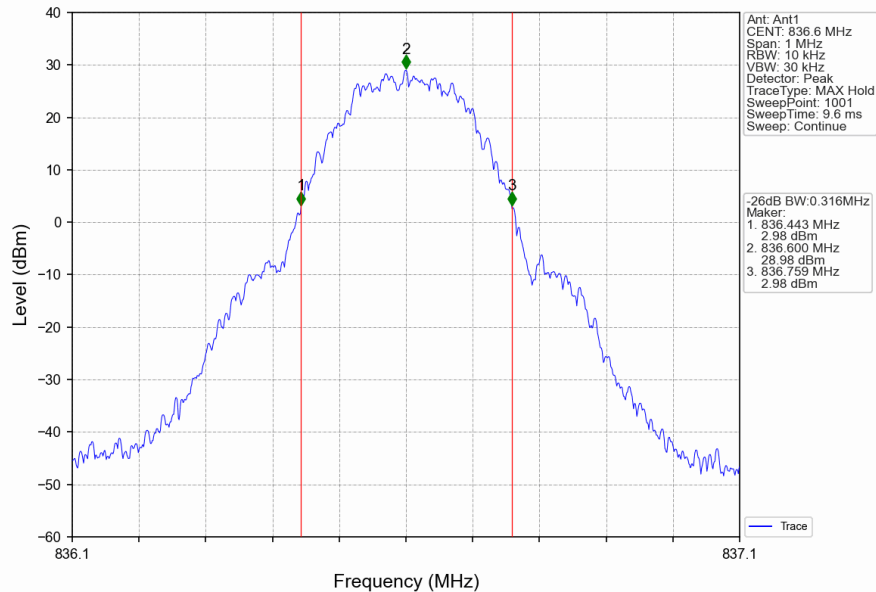
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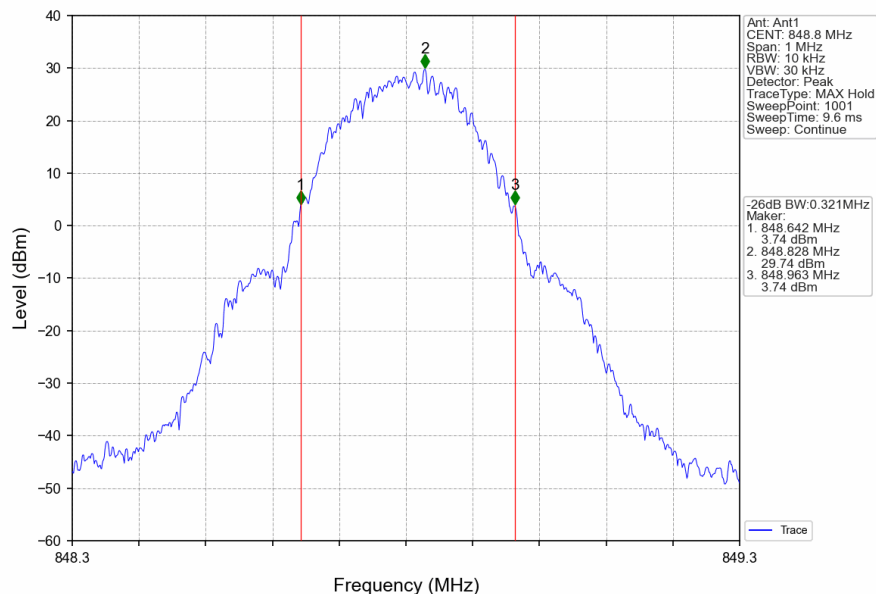
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GSM850\_GPRS\_MCH\_836.6MHz\_1 TX Slot\_NTNV



GSM850\_GPRS\_HCH\_848.8MHz\_1 TX Slot\_NTNV



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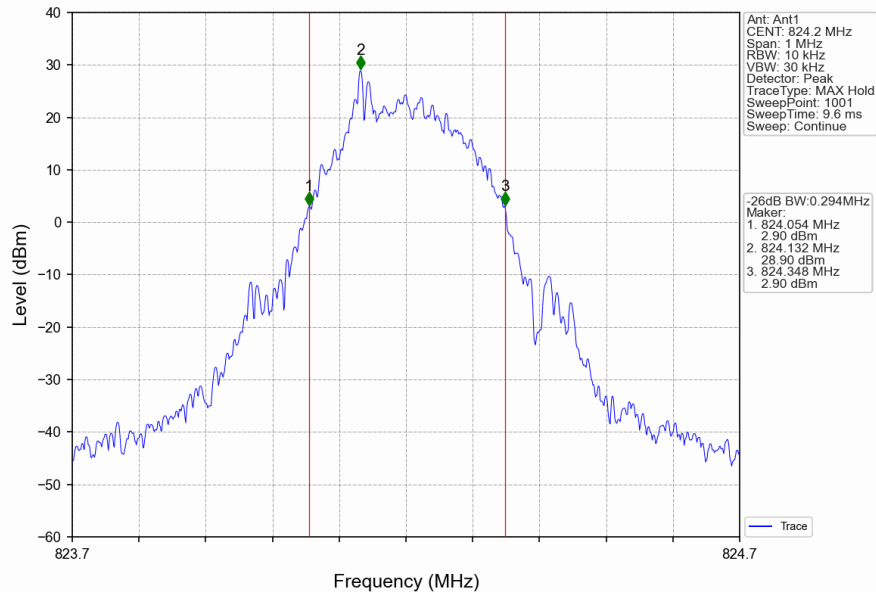
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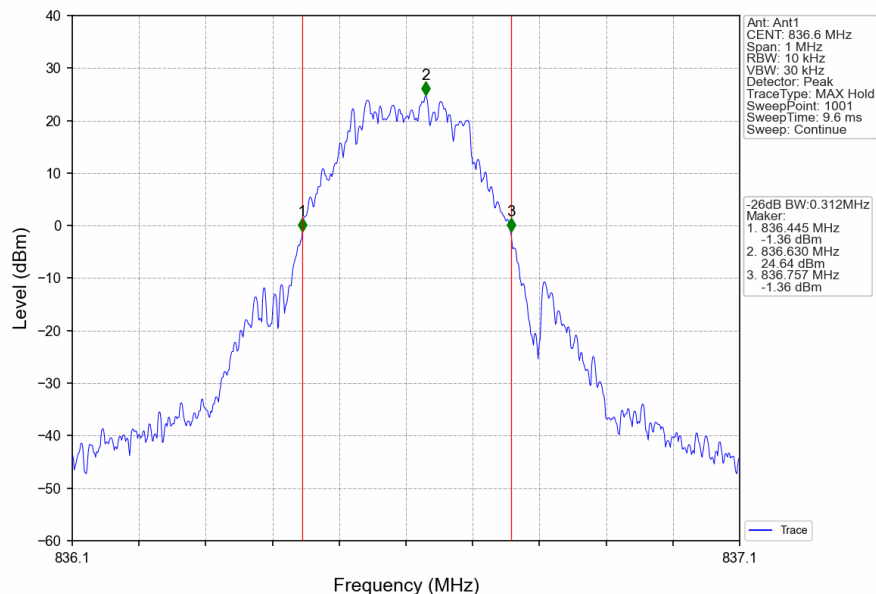
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GSM850\_EGPRS\_MCH\_836.6MHz\_1 TX Slot\_NTNV



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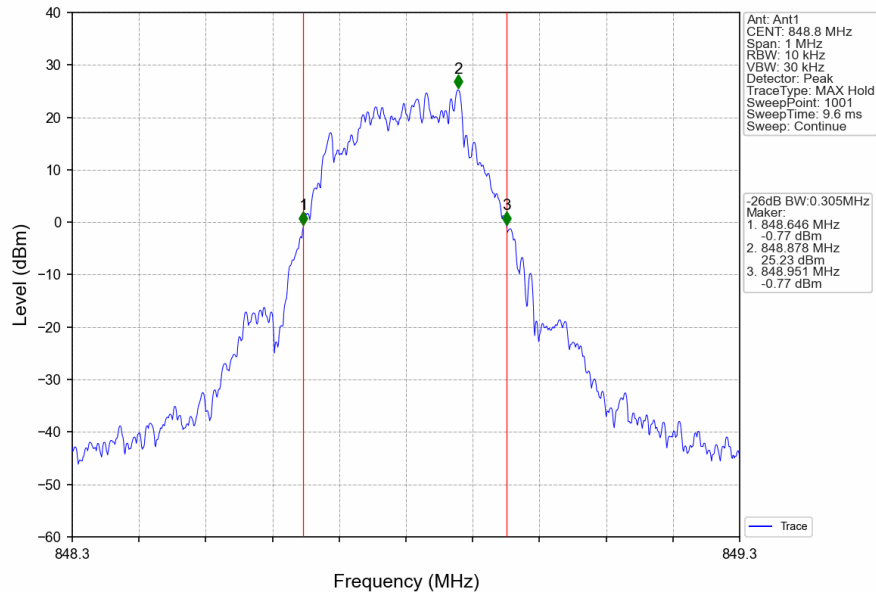
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## 4. Peak-Average Ratio

### 4.1 GSM850

#### 4.1.1 Test Result

Band: GSM850						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	9.10	$\leq 13$	Pass
			836.6	9.47	$\leq 13$	Pass
			848.8	9.37	$\leq 13$	Pass
	GPRS	4 TX Slots	824.2	3.63	$\leq 13$	Pass
			836.6	3.64	$\leq 13$	Pass
			848.8	3.56	$\leq 13$	Pass
	EGPRS	4 TX Slots	824.2	8.84	$\leq 13$	Pass
			836.6	6.82	$\leq 13$	Pass
			848.8	6.92	$\leq 13$	Pass



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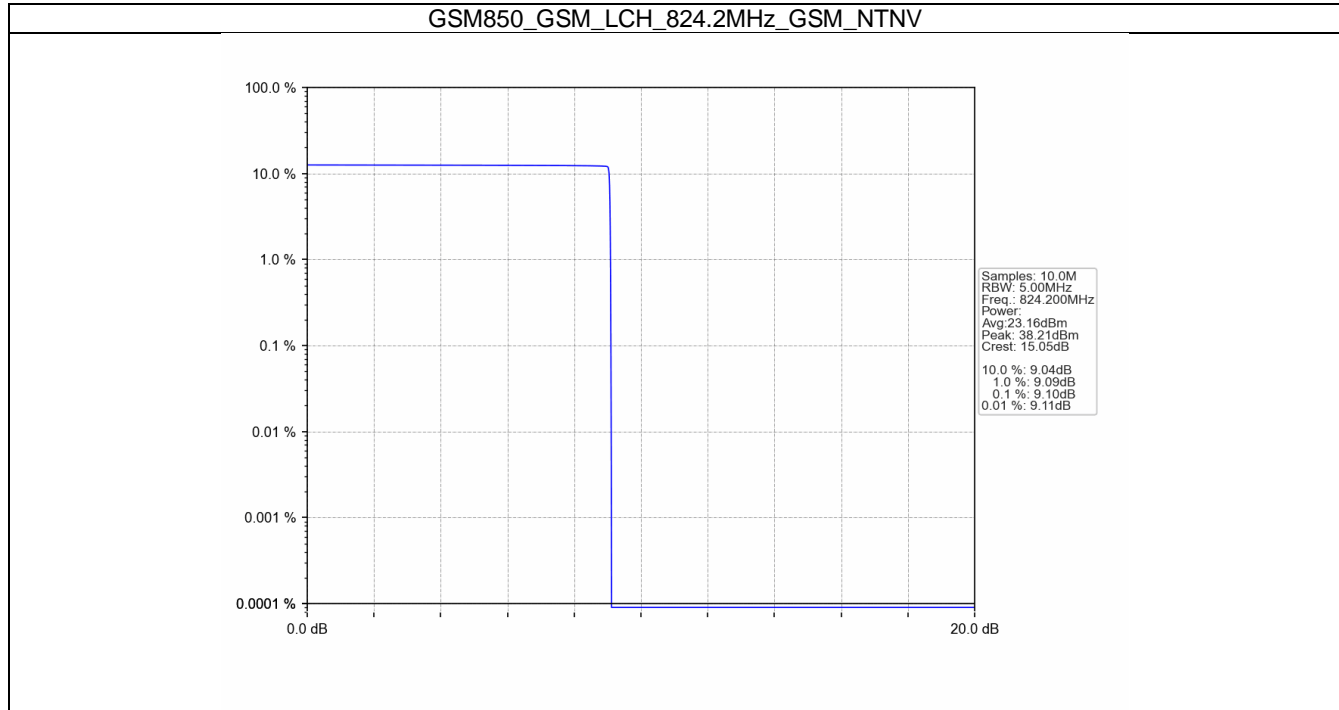
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## 4.1.2 Test Graph



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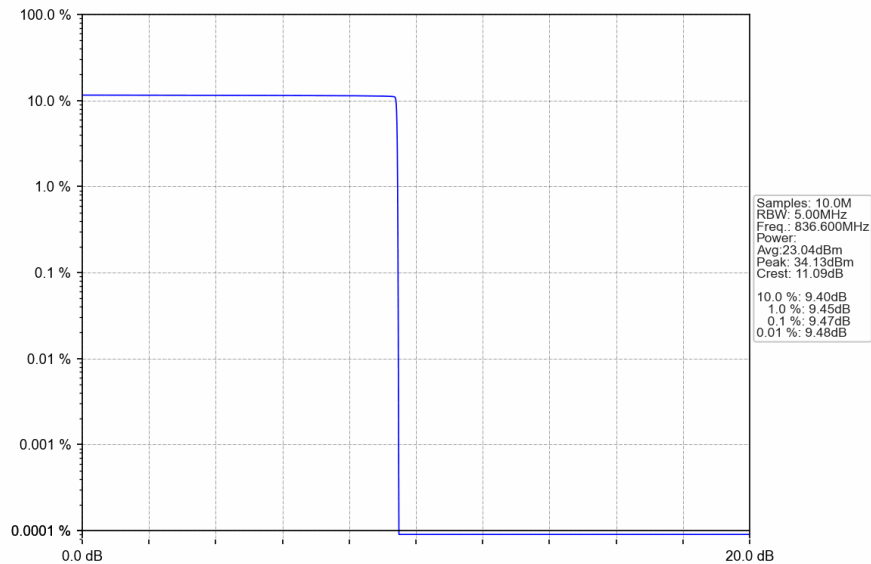
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GSM850\_GSM\_MCH\_836.6MHz\_GSM\_NTNV



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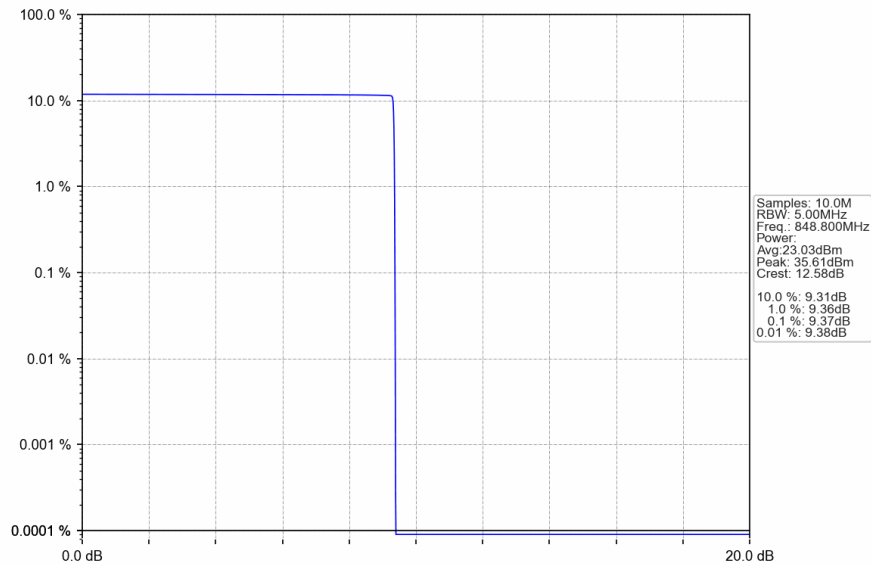
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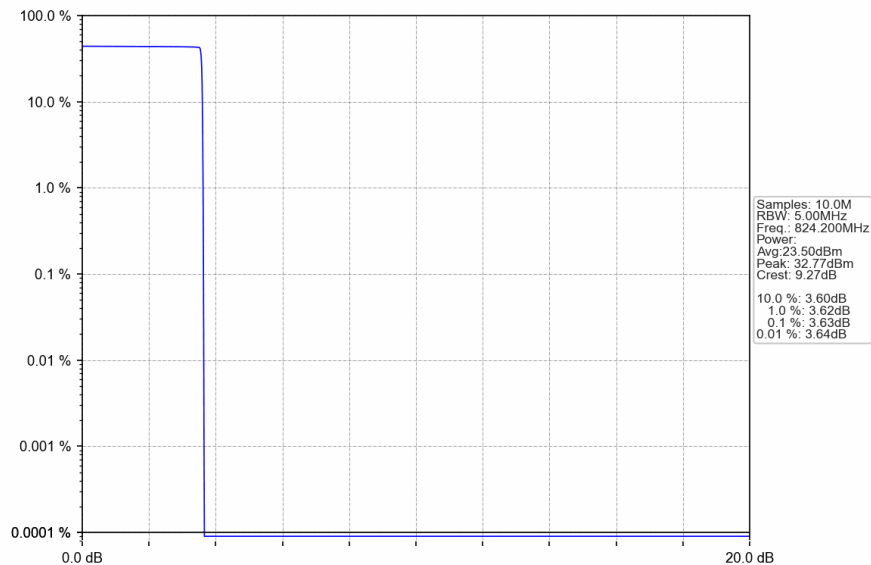
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GSM850\_GSM\_HCH\_848.8MHz\_GSM\_NTNV



GSM850\_GPRS\_LCH\_824.2MHz\_4 TX Slots\_NTNV



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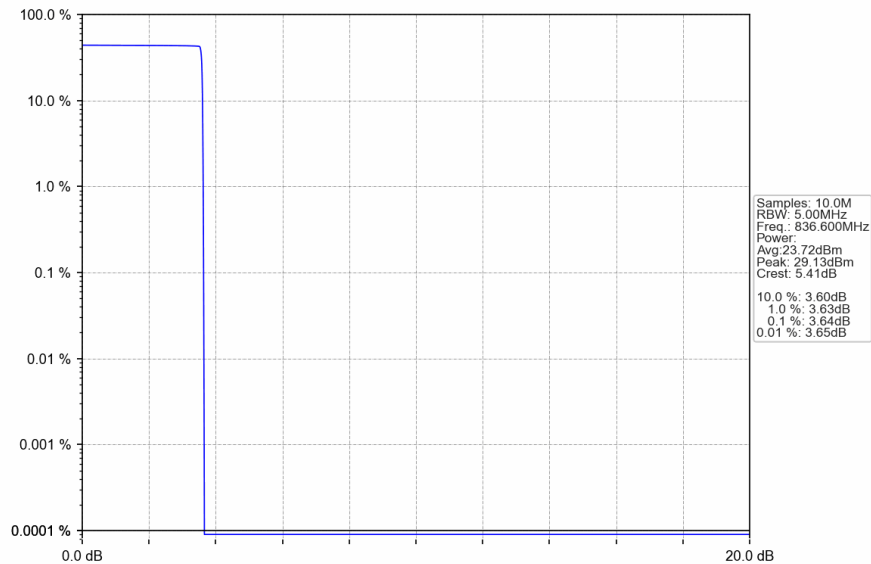
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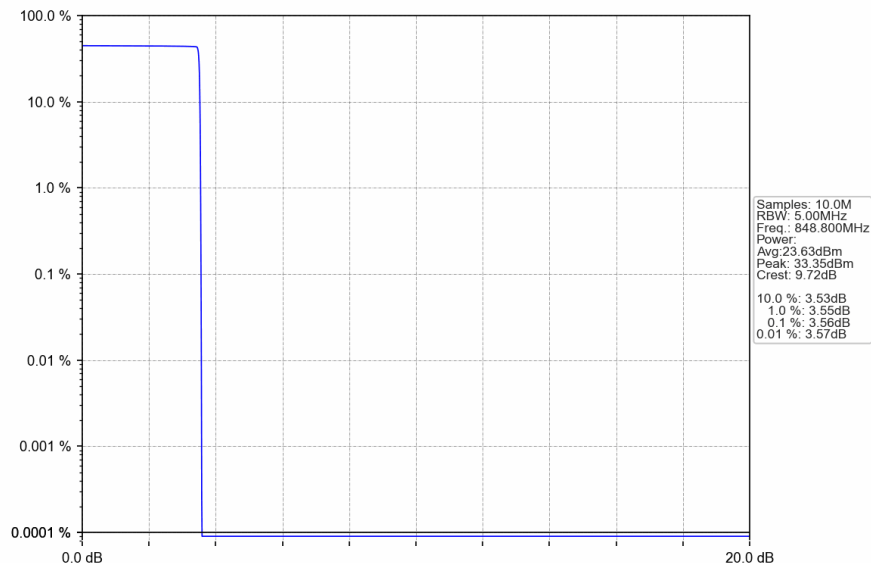
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GSM850\_GPRS\_MCH\_836.6MHz\_4 TX Slots\_NTNV



GSM850\_GPRS\_HCH\_848.8MHz\_4 TX Slots\_NTNV



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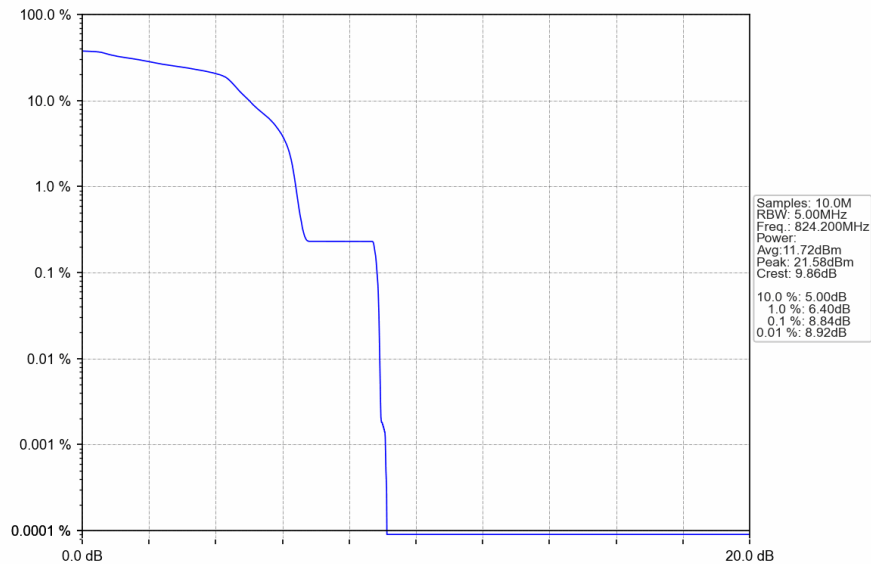
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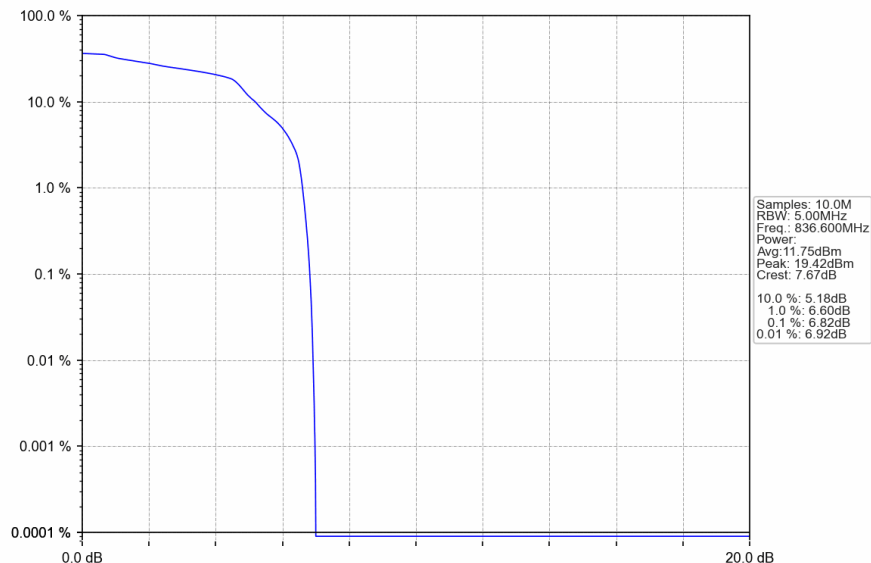
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GSM850\_EGPRS\_LCH\_824.2MHz\_4 TX Slots\_NTNV



GSM850\_EGPRS\_MCH\_836.6MHz\_4 TX Slots\_NTNV



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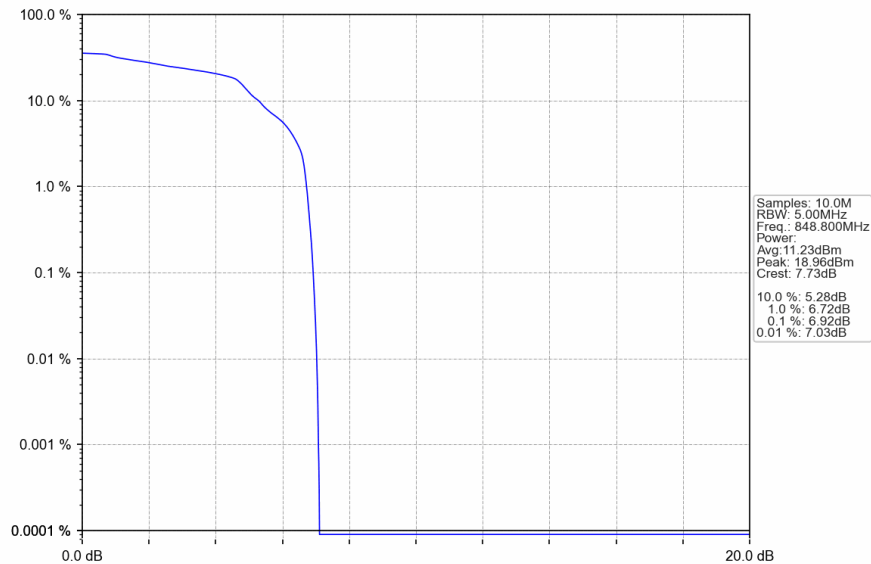
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GSM850\_EGPRS\_HCH\_848.8MHz\_4 TX Slots\_NTNV



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## 5. Spurious Emission & Band Edge

### 5.1 GSM850

#### 5.1.1 Test Result

Band: GSM850						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	Refer To Test Graph		Pass
			836.6	Refer To Test Graph		Pass
			848.8	Refer To Test Graph		Pass
	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



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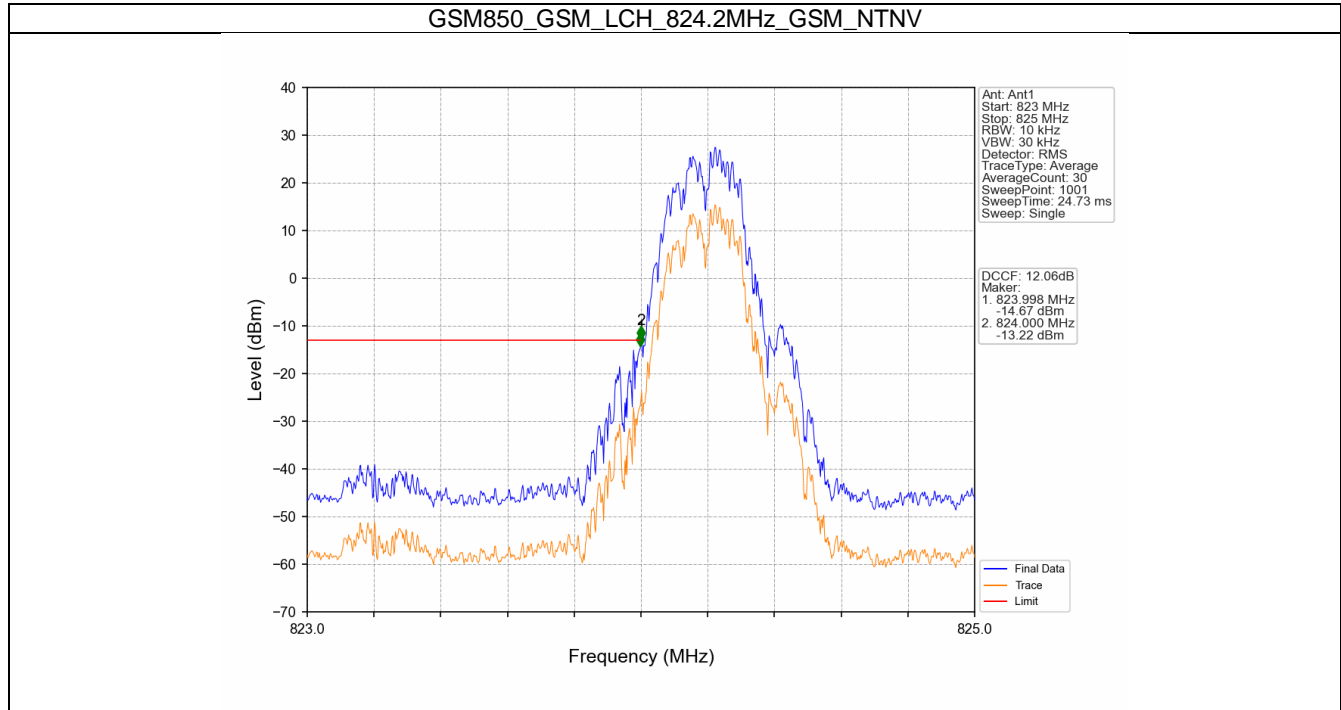
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## 5.1.2 Test Graph



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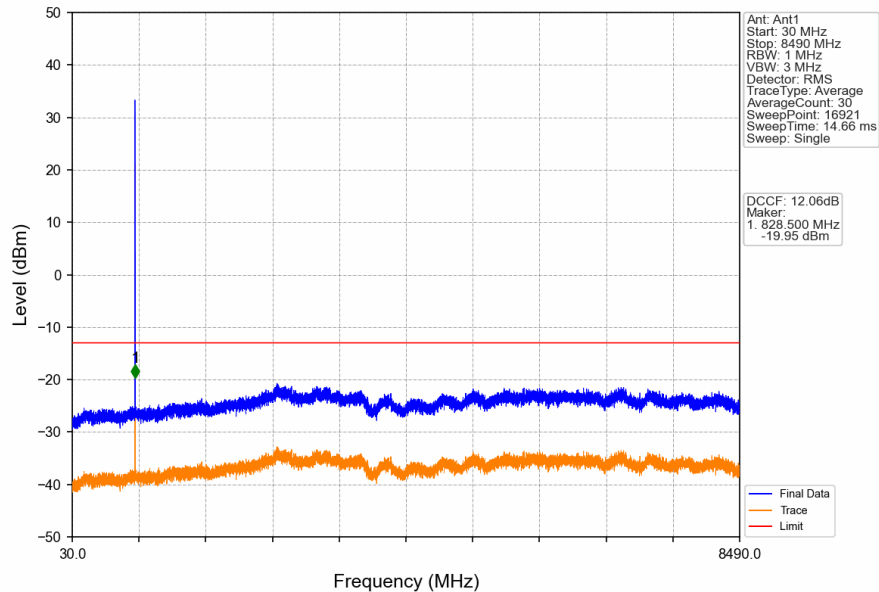
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GSM850\_GSM\_LCH\_824.2MHz\_GSM\_NTNV



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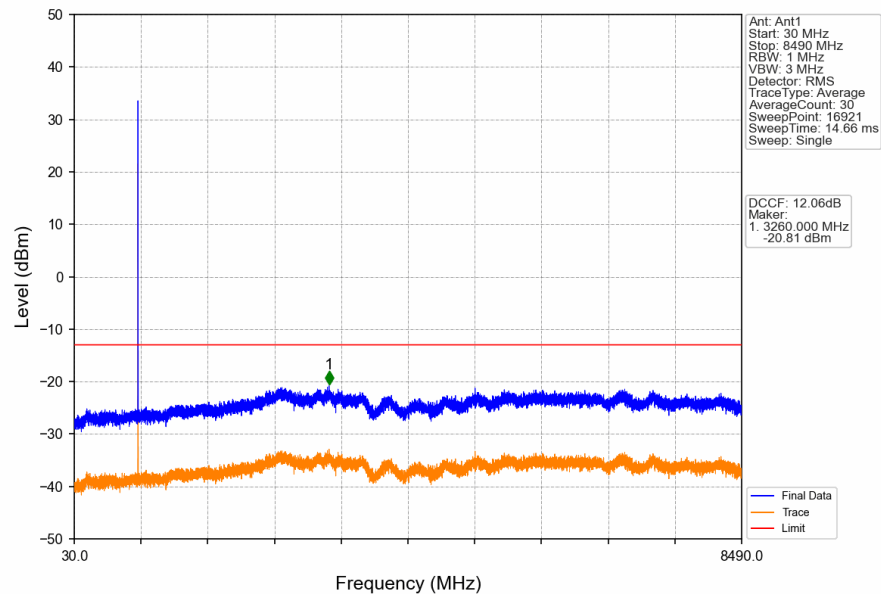
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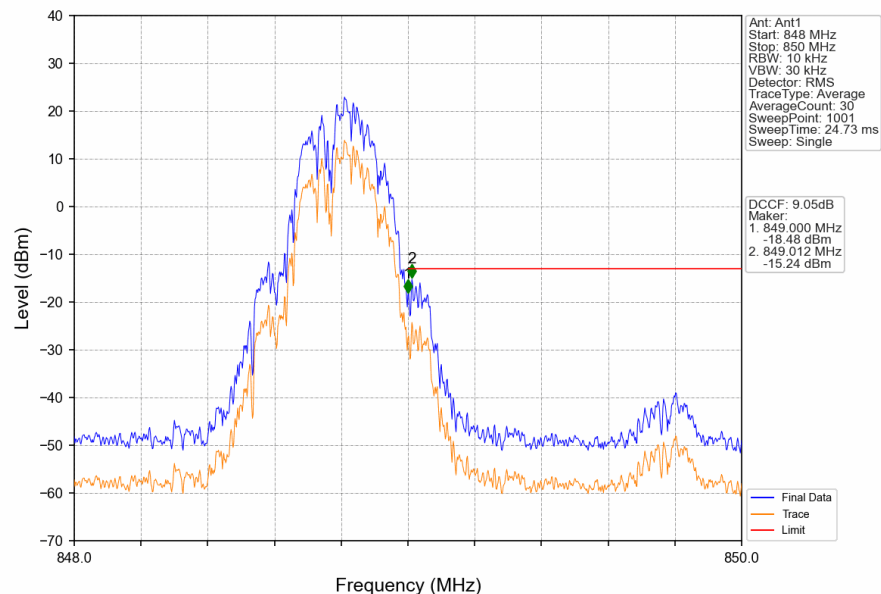
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GSM850\_GSM\_HCH\_848.8MHz\_GSM\_NTNV



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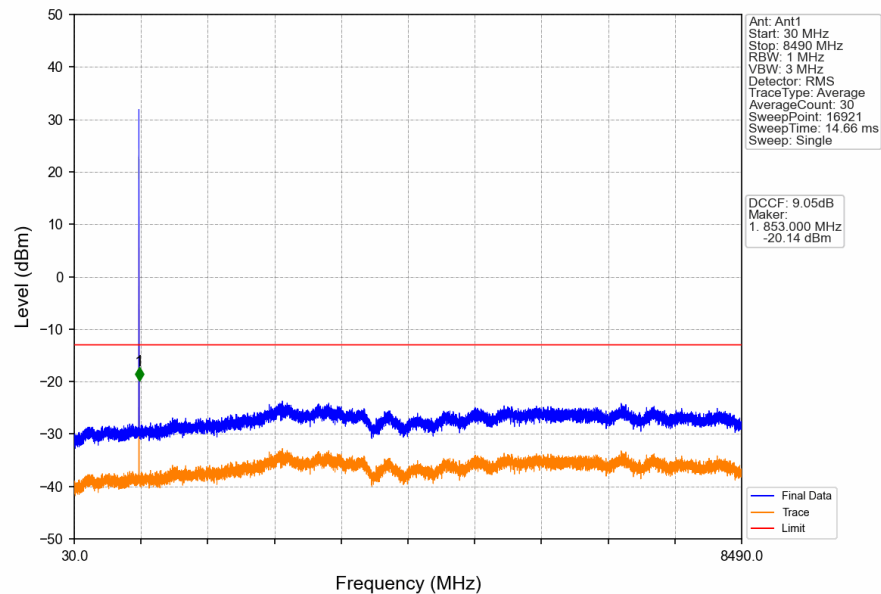
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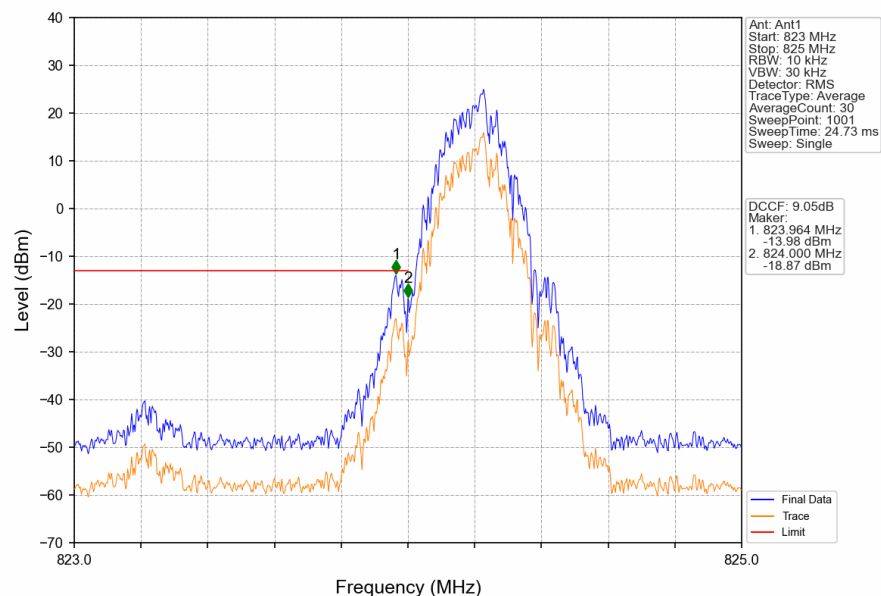
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GSM850\_GPRS\_LCH\_824.2MHz\_1 TX Slot\_NTNV



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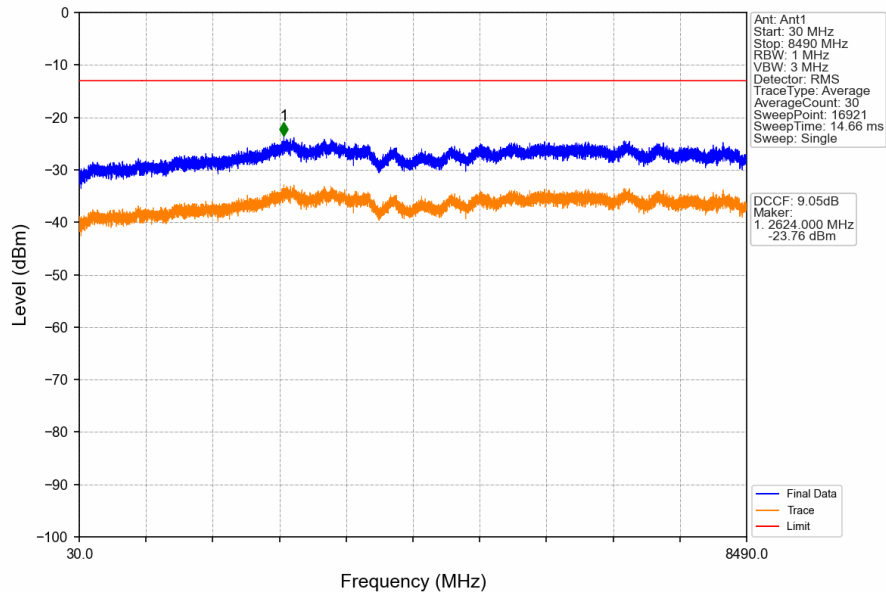
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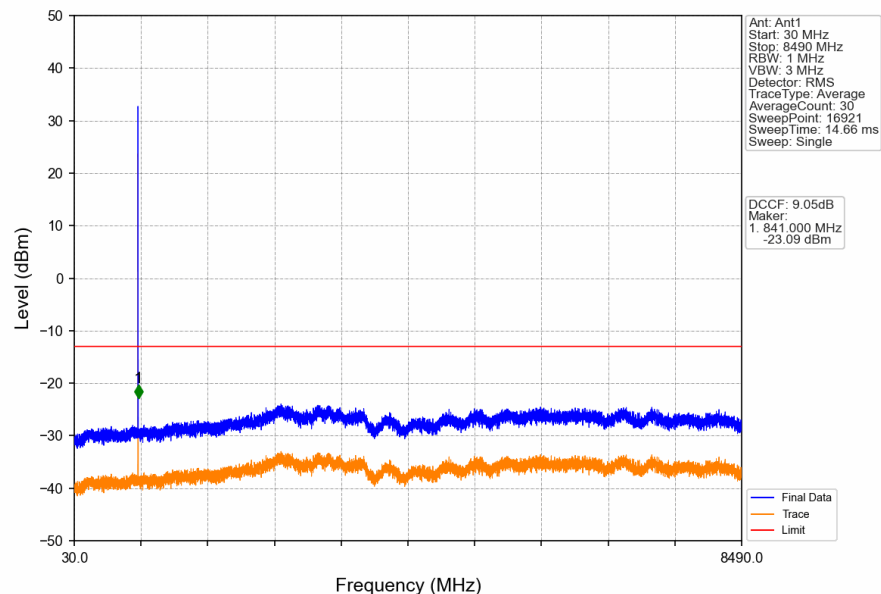
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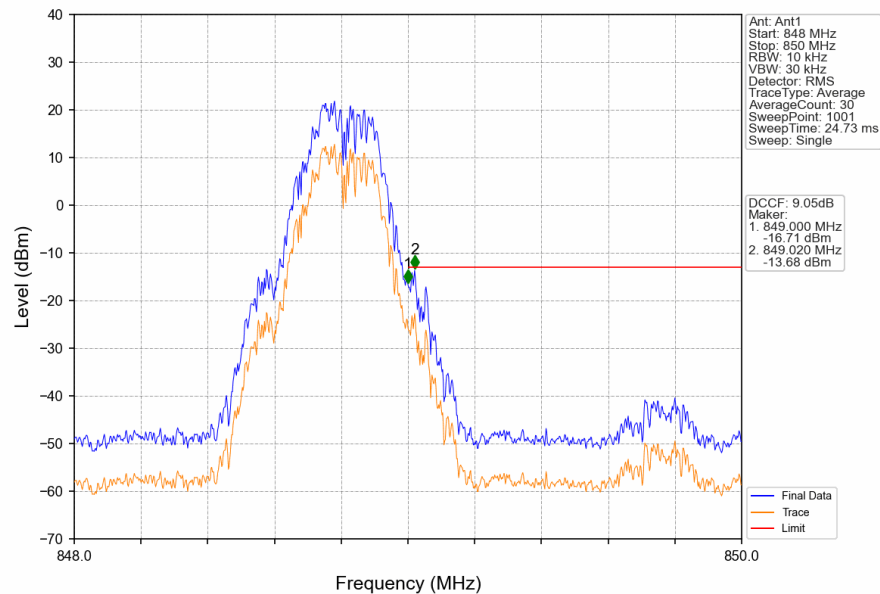
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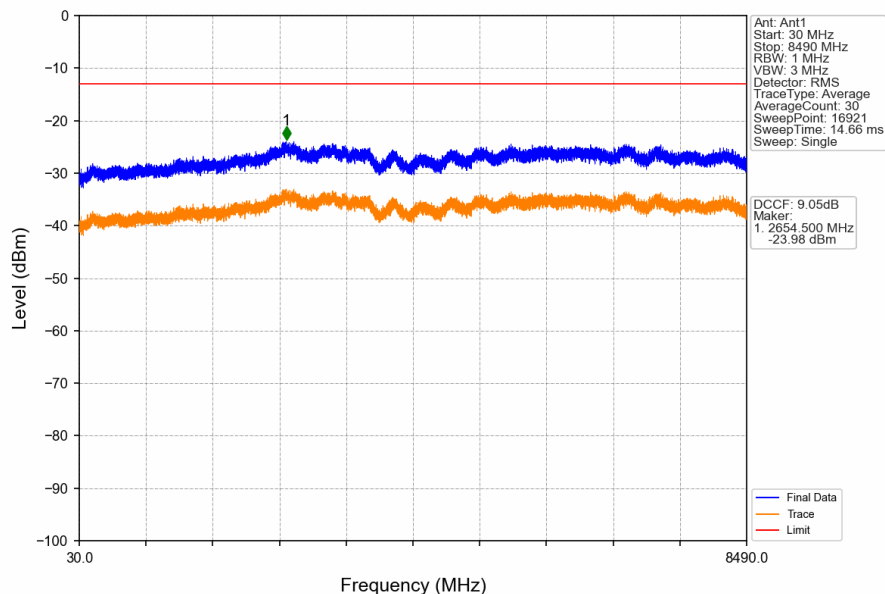
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GSM850\_GPRS\_HCH\_848.8MHz\_1 TX Slot\_NTNV



GSM850\_GPRS\_HCH\_848.8MHz\_1 TX Slot\_NTNV



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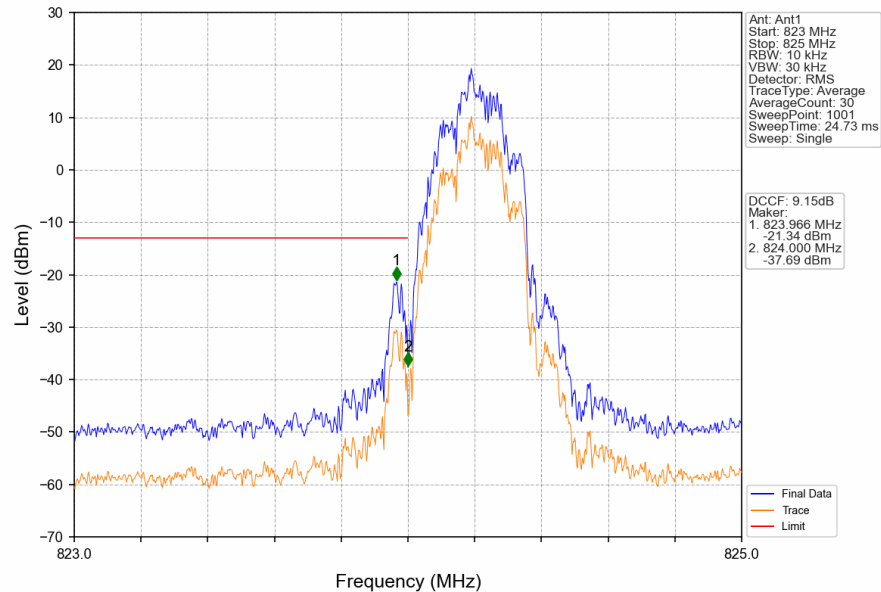
# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240200059401

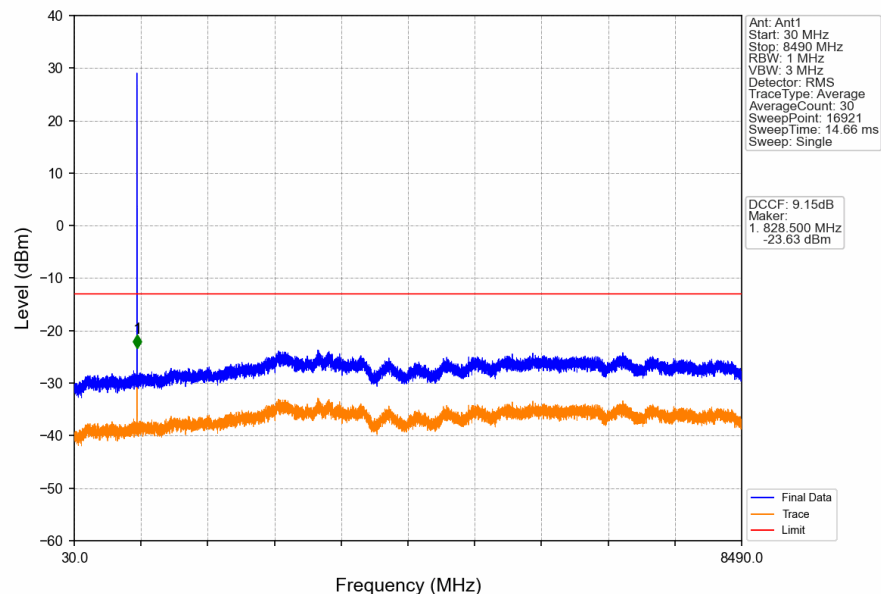
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GSM850\_EGPRS\_LCH\_824.2MHz\_1 TX Slot\_NTNV



GSM850\_EGPRS\_LCH\_824.2MHz\_1 TX Slot\_NTNV



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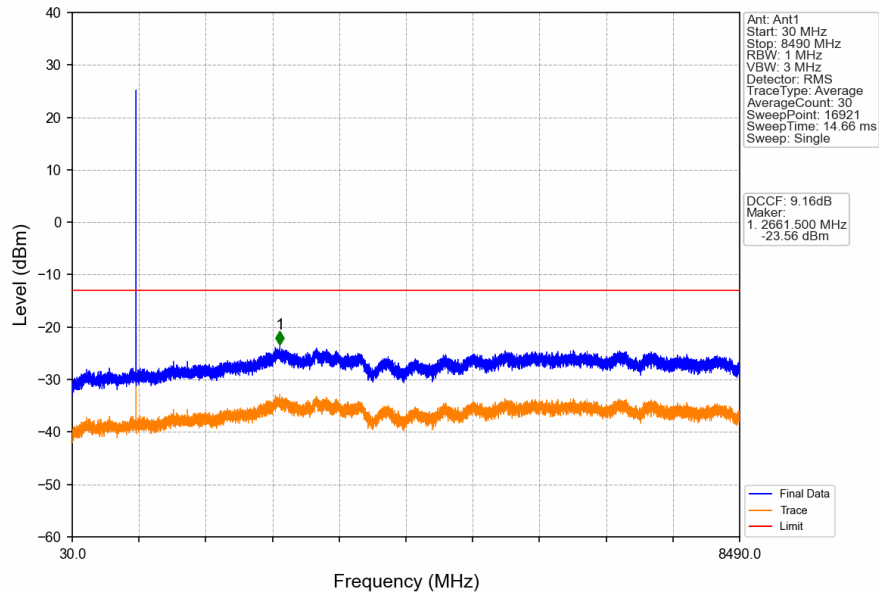
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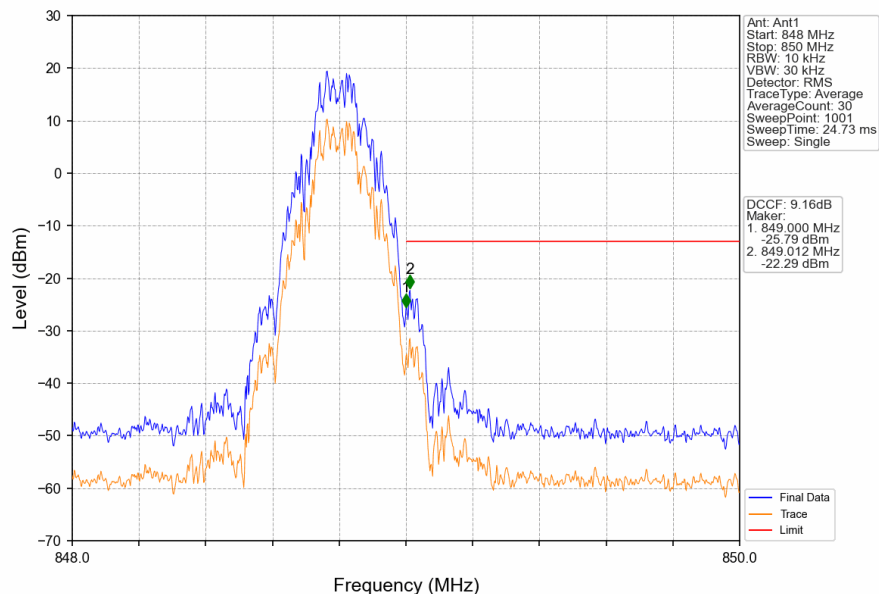
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GSM850\_EGPRS\_MCH\_836.6MHz\_1 TX Slot\_NTNV



GSM850\_EGPRS\_HCH\_848.8MHz\_1 TX Slot\_NTNV



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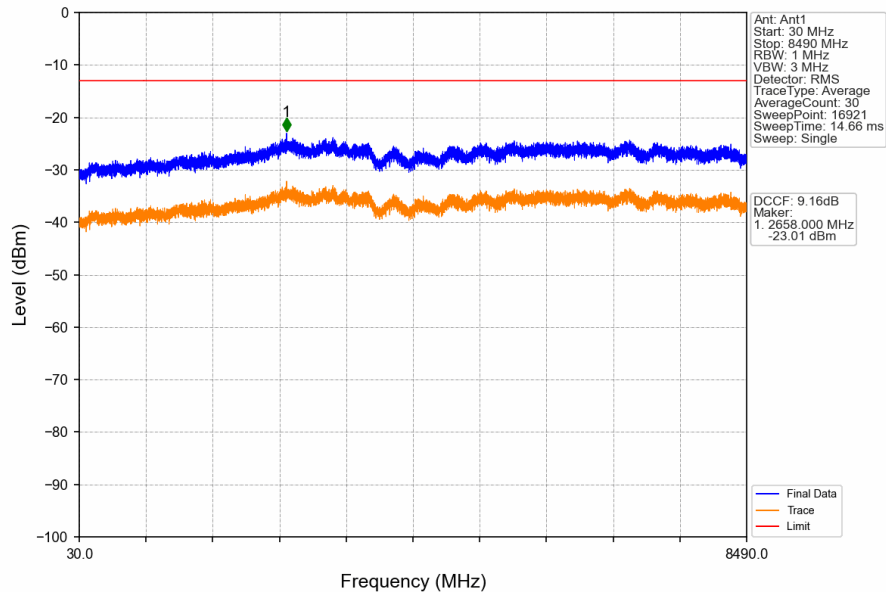
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GSM850\_EGPRS\_HCH\_848.8MHz\_1 TX Slot\_NTNV



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## 6. Field Strength of Spurious Radiation

Test Band = GSM850 \_ TM1  
Test Channel = low

Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamp_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
1652.8	26.29	4.27	38.41	-63.33	-61.06	-13	-48.06	Horizontal
2479.2	28.9	5.16	37.23	-64.09	-56.01	-13	-43.01	Horizontal
3305.6	31.3	5.98	36.13	-64.56	-52.06	-13	-39.06	Horizontal
Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamp_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
1652.8	26.29	4.27	38.41	-63.98	-61.71	-13	-48.71	Vertical
2479.2	28.9	5.16	37.23	-64.92	-56.84	-13	-43.84	Vertical
3305.6	31.3	5.98	36.13	-65.63	-53.13	-13	-40.13	Vertical



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**Test Band = GSM850 \_ TM1**  
**Test Channel = mid**

Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamplifier_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
1672.8	26.25	4.3	38.41	-63.01	-60.73	-13	-47.73	Horizontal
2509.2	28.97	5.18	37.16	-63.42	-55.99	-13	-42.99	Horizontal
3345.6	32.02	6.03	36.12	-65.33	-52.07	-13	-39.07	Horizontal
Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamplifier_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
1672.8	26.25	4.3	38.41	-63.46	-61.18	-13	-48.18	Vertical
2509.2	28.97	5.18	37.16	-64.15	-56.72	-13	-43.72	Vertical
3345.6	32.02	6.03	36.12	-63.34	-50.08	-13	-37.08	Vertical



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**Test Band = GSM850 \_ TM1**  
**Test Channel = high**

Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamplifier_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
1693.2	26.21	4.32	38.41	-62.47	-60.19	-13	-47.19	Horizontal
2539.8	29.22	5.21	37.09	-64.97	-57.12	-13	-44.12	Horizontal
3386.4	32.32	6.09	36.12	-64.53	-50.93	-13	-37.93	Horizontal
Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamplifier_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
1693.2	26.21	4.32	38.41	-63.09	-60.81	-13	-47.81	Vertical
2539.8	29.22	5.21	37.09	-64.66	-56.81	-13	-43.81	Vertical
3386.4	32.32	6.09	36.12	-65.21	-51.61	-13	-38.61	Vertical

Remark:

1) All antennas of RSE are tested, and only the worst data is presented.

---End of Attachment---



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