



Report No.: SEWA2310000127RG01  
Rev.: 01  
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# Appendix B.1

## GSM 850



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1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

ANT1

Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
GSM850	128	32.06	32.47	38.45	PASS
GSM850	190	32.11	32.52	38.45	PASS
GSM850	251	32.08	32.49	38.45	PASS

Band	Channel	Slot	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	27.67	28.08	38.45	PASS
EGPRS850	128	2	27.60	28.01	38.45	PASS
EGPRS850	128	3	27.58	27.99	38.45	PASS
EGPRS850	128	4	27.45	27.86	38.45	PASS
EGPRS850	190	1	27.50	27.91	38.45	PASS
EGPRS850	190	2	27.46	27.87	38.45	PASS
EGPRS850	190	3	27.33	27.74	38.45	PASS
EGPRS850	190	4	27.13	27.54	38.45	PASS
EGPRS850	251	1	25.99	26.4	38.45	PASS
EGPRS850	251	2	25.89	26.3	38.45	PASS
EGPRS850	251	3	25.78	26.19	38.45	PASS
EGPRS850	251	4	25.69	26.1	38.45	PASS



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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	3.8	-5.082	-0.0062	-2.5 to 2.5	Pass
			4.0	-5.274	-0.0064	-2.5 to 2.5	Pass
			4.2	-5.659	-0.0069	-2.5 to 2.5	Pass
		-30	4.0	-3.240	-0.0039	-2.5 to 2.5	Pass
		-20	4.0	-5.585	-0.0068	-2.5 to 2.5	Pass
		-10	4.0	-7.129	-0.0086	-2.5 to 2.5	Pass
		0	4.0	-6.358	-0.0077	-2.5 to 2.5	Pass
		10	4.0	-3.834	-0.0047	-2.5 to 2.5	Pass
		30	4.0	-6.584	-0.0080	-2.5 to 2.5	Pass
		40	4.0	-5.987	-0.0073	-2.5 to 2.5	Pass
	50	4.0	-5.671	-0.0069	-2.5 to 2.5	Pass	
	836.6	20	3.8	-5.655	-0.0068	-2.5 to 2.5	Pass
			4.0	-4.256	-0.0051	-2.5 to 2.5	Pass
			4.2	-6.336	-0.0076	-2.5 to 2.5	Pass
		-30	4.0	-6.368	-0.0076	-2.5 to 2.5	Pass
		-20	4.0	-8.447	-0.0101	-2.5 to 2.5	Pass
		-10	4.0	-4.570	-0.0055	-2.5 to 2.5	Pass
		0	4.0	-0.594	-0.0007	-2.5 to 2.5	Pass
		10	4.0	-6.458	-0.0077	-2.5 to 2.5	Pass
		30	4.0	-3.730	-0.0045	-2.5 to 2.5	Pass
		40	4.0	-6.438	-0.0077	-2.5 to 2.5	Pass
	50	4.0	-5.169	-0.0062	-2.5 to 2.5	Pass	
	848.8	20	3.8	-5.794	-0.0068	-2.5 to 2.5	Pass
			4.0	-4.775	-0.0056	-2.5 to 2.5	Pass
			4.2	-6.175	-0.0073	-2.5 to 2.5	Pass
		-30	4.0	-6.540	-0.0077	-2.5 to 2.5	Pass
		-20	4.0	-5.083	-0.0060	-2.5 to 2.5	Pass
		-10	4.0	-5.439	-0.0064	-2.5 to 2.5	Pass
		0	4.0	-4.038	-0.0048	-2.5 to 2.5	Pass
		10	4.0	-6.462	-0.0076	-2.5 to 2.5	Pass
30		4.0	-4.708	-0.0055	-2.5 to 2.5	Pass	
40		4.0	-6.393	-0.0075	-2.5 to 2.5	Pass	
50	4.0	-6.588	-0.0078	-2.5 to 2.5	Pass		
EGPRS	824.2	20	3.8	-5.298	-0.0064	-2.5 to 2.5	Pass
			4.0	-4.960	-0.0060	-2.5 to 2.5	Pass
			4.2	-8.769	-0.0106	-2.5 to 2.5	Pass
		-30	4.0	-2.846	-0.0035	-2.5 to 2.5	Pass
		-20	4.0	-6.523	-0.0079	-2.5 to 2.5	Pass
		-10	4.0	-8.507	-0.0103	-2.5 to 2.5	Pass
		0	4.0	-7.582	-0.0092	-2.5 to 2.5	Pass



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		10	4.0	-12.664	-0.0154	-2.5 to 2.5	Pass	
		30	4.0	-5.201	-0.0063	-2.5 to 2.5	Pass	
		40	4.0	-4.115	-0.0050	-2.5 to 2.5	Pass	
		50	4.0	-7.660	-0.0093	-2.5 to 2.5	Pass	
	836.6	20	3.8	4.0	-8.376	-0.0100	-2.5 to 2.5	Pass
			4.0	4.0	-4.707	-0.0056	-2.5 to 2.5	Pass
			4.2	4.0	-7.372	-0.0088	-2.5 to 2.5	Pass
		-30	4.0	-6.354	-0.0076	-2.5 to 2.5	Pass	
		-20	4.0	-4.321	-0.0052	-2.5 to 2.5	Pass	
		-10	4.0	-8.589	-0.0103	-2.5 to 2.5	Pass	
		0	4.0	-7.032	-0.0084	-2.5 to 2.5	Pass	
		10	4.0	-6.867	-0.0082	-2.5 to 2.5	Pass	
		30	4.0	-5.339	-0.0064	-2.5 to 2.5	Pass	
		40	4.0	-5.953	-0.0071	-2.5 to 2.5	Pass	
		50	4.0	-7.197	-0.0086	-2.5 to 2.5	Pass	
		848.8	20	3.8	4.0	-6.702	-0.0079	-2.5 to 2.5
	4.0			4.0	-8.533	-0.0101	-2.5 to 2.5	Pass
	4.2			4.0	-7.498	-0.0088	-2.5 to 2.5	Pass
	-30		4.0	-8.585	-0.0101	-2.5 to 2.5	Pass	
	-20		4.0	-7.463	-0.0088	-2.5 to 2.5	Pass	
-10	4.0		-8.172	-0.0096	-2.5 to 2.5	Pass		
0	4.0		-5.959	-0.0070	-2.5 to 2.5	Pass		
10	4.0		-7.236	-0.0085	-2.5 to 2.5	Pass		
30	4.0		-6.003	-0.0071	-2.5 to 2.5	Pass		
40	4.0		-3.494	-0.0041	-2.5 to 2.5	Pass		
50	4.0		-7.869	-0.0093	-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	0.244	/	Pass
			836.6	0.246	/	Pass
			848.8	0.247	/	Pass
	EGPRS	1 TX Slot	824.2	0.234	/	Pass
			836.6	0.248	/	Pass
			848.8	0.241	/	Pass

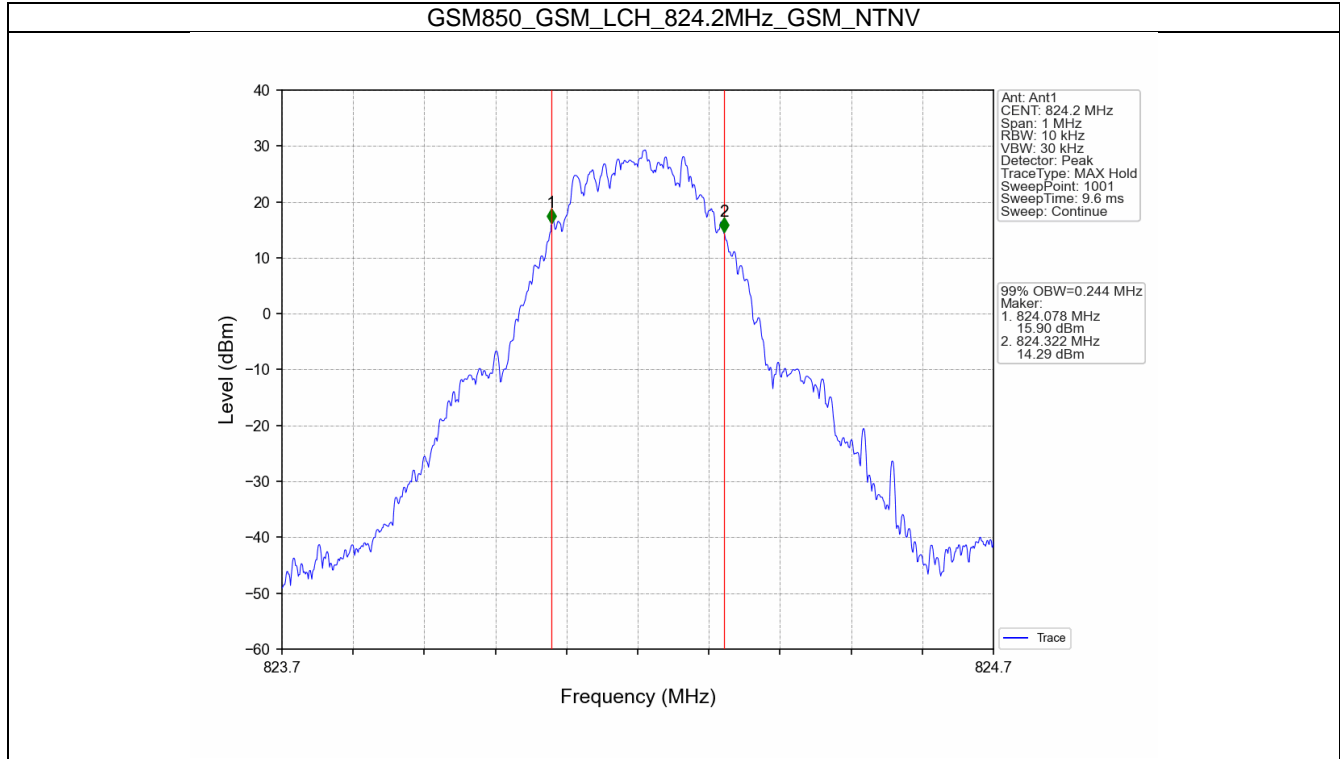


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3.1.2 Test Graph

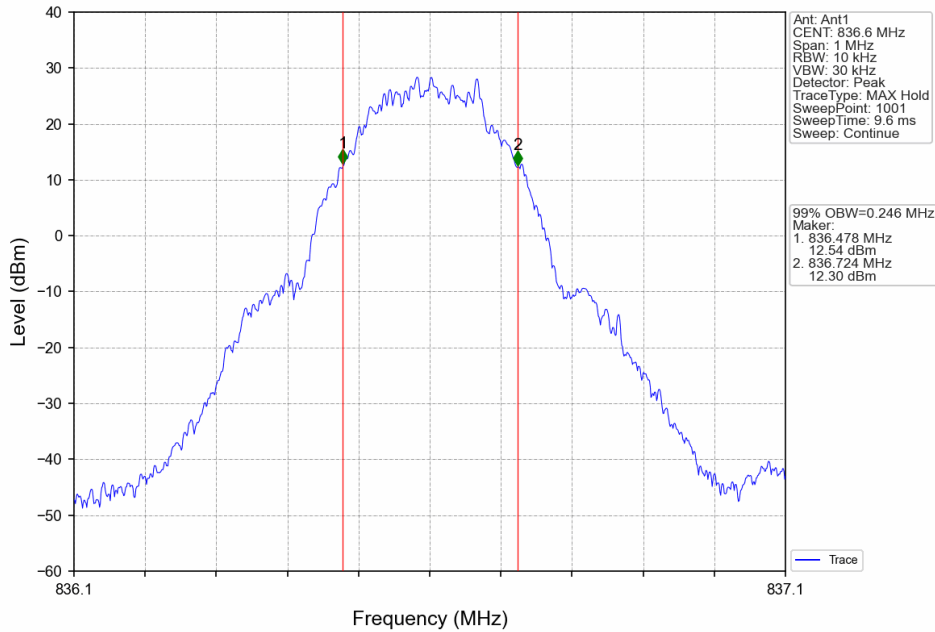


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GSM850\_GSM\_MCH\_836.6MHz\_GSM\_NTNV

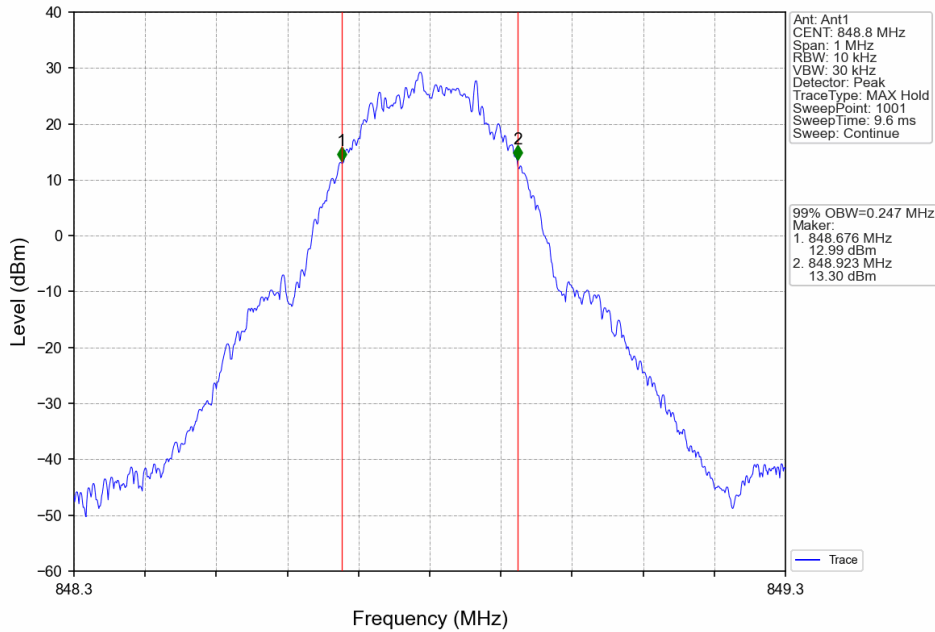


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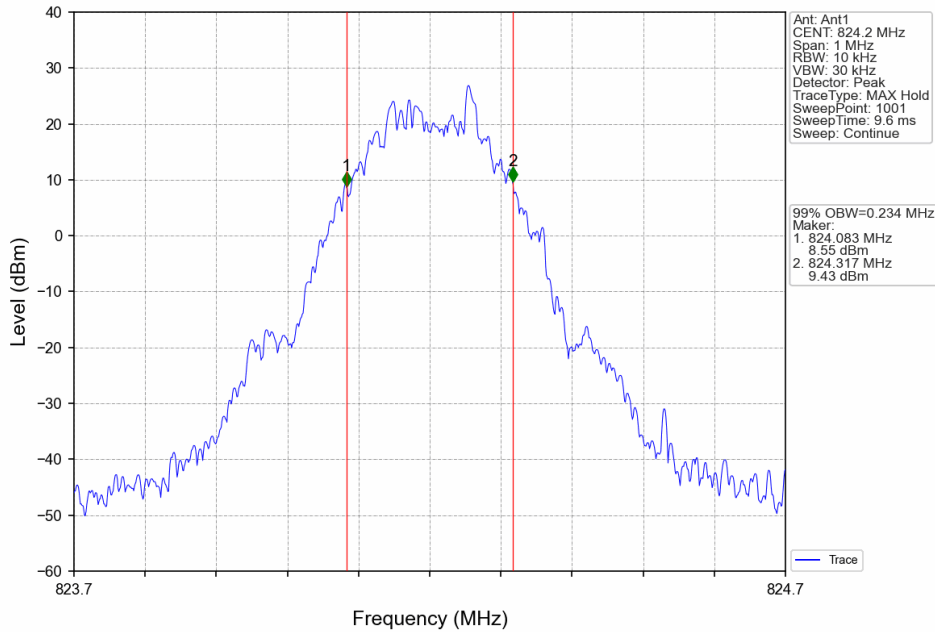
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GSM850\_EGPRS\_LCH\_824.2MHz\_1 TX Slot\_NTNV

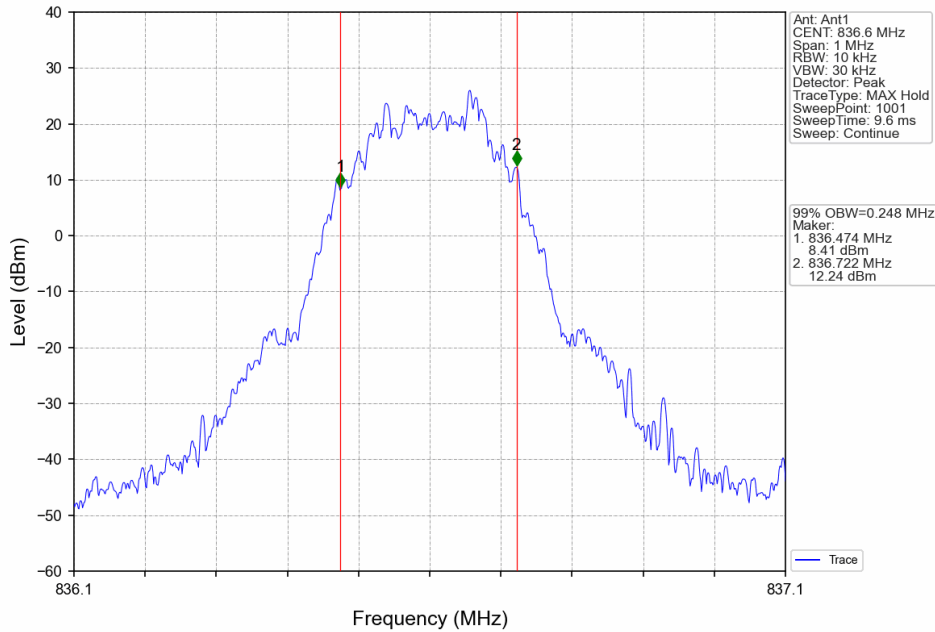


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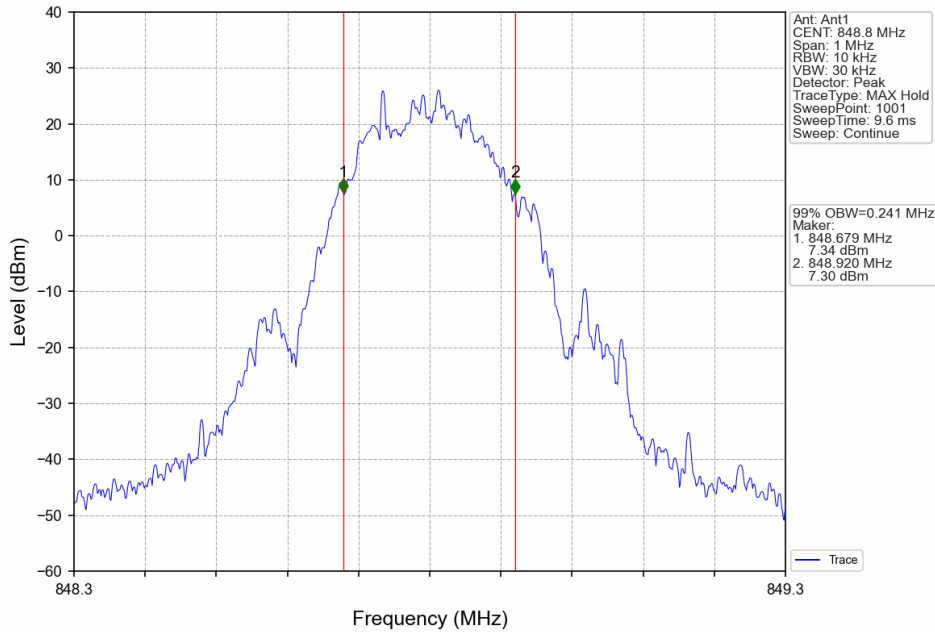


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3.2 GSM850\_XDB

3.2.1 Test Result

Band: GSM850						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	0.315	/	Pass
			836.6	0.317	/	Pass
			848.8	0.312	/	Pass
	EGPRS	1 TX Slot	824.2	0.303	/	Pass
			836.6	0.298	/	Pass
			848.8	0.301	/	Pass

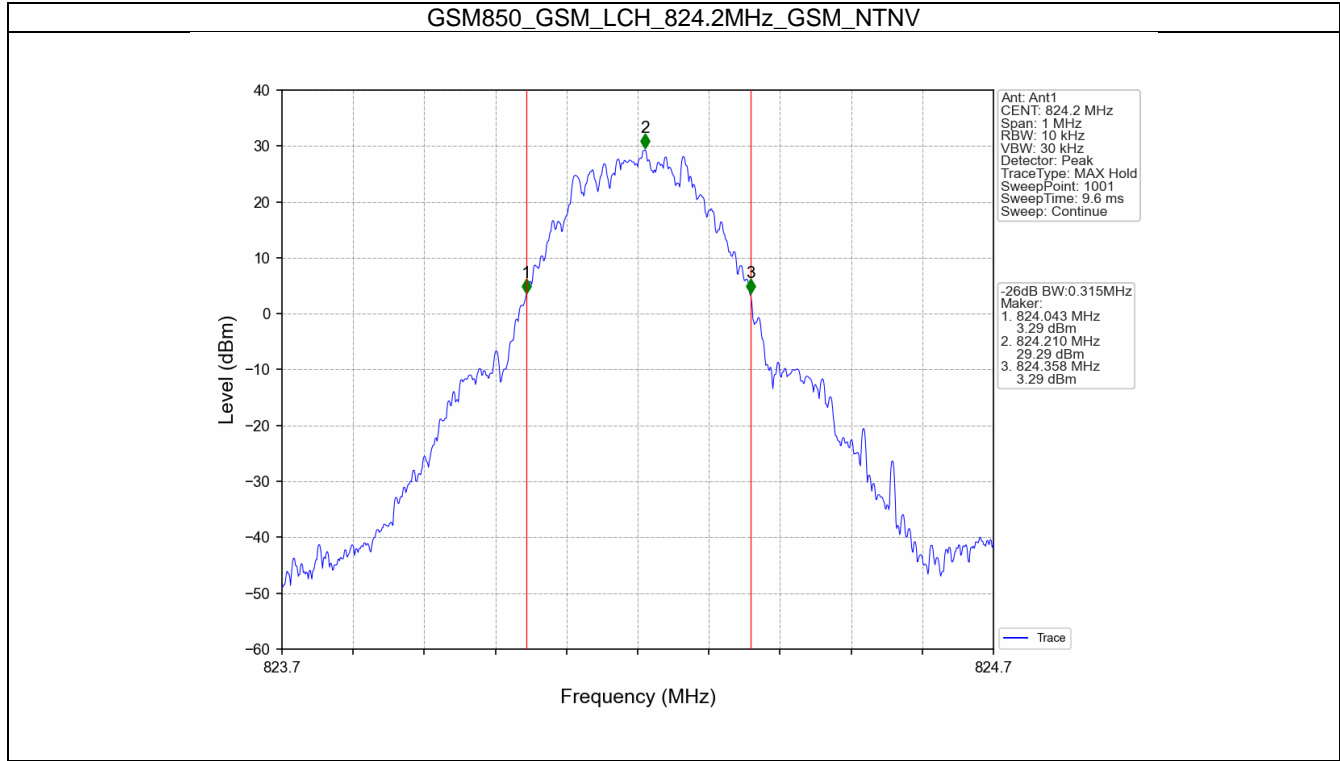


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3.2.2 Test Graph

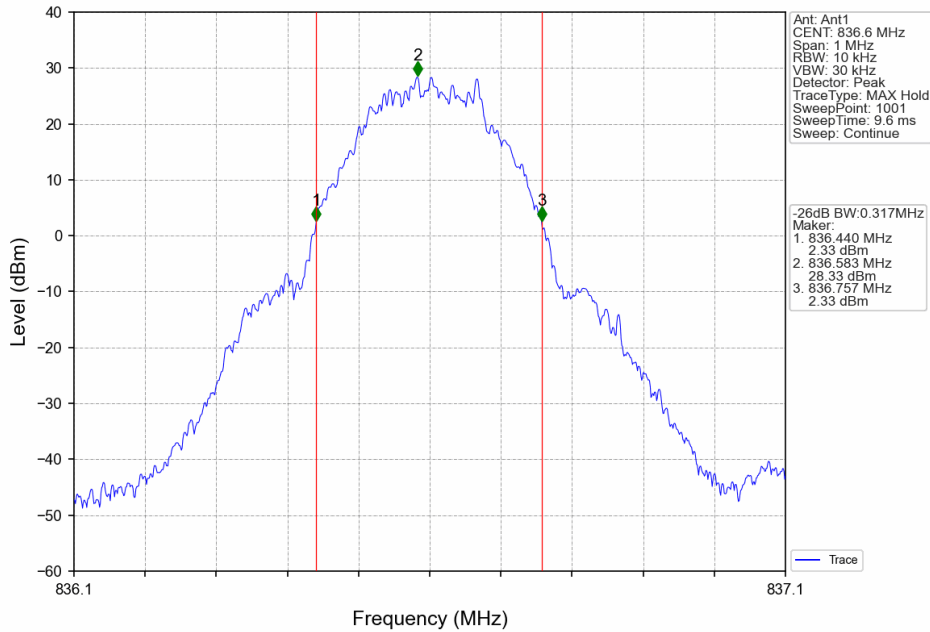


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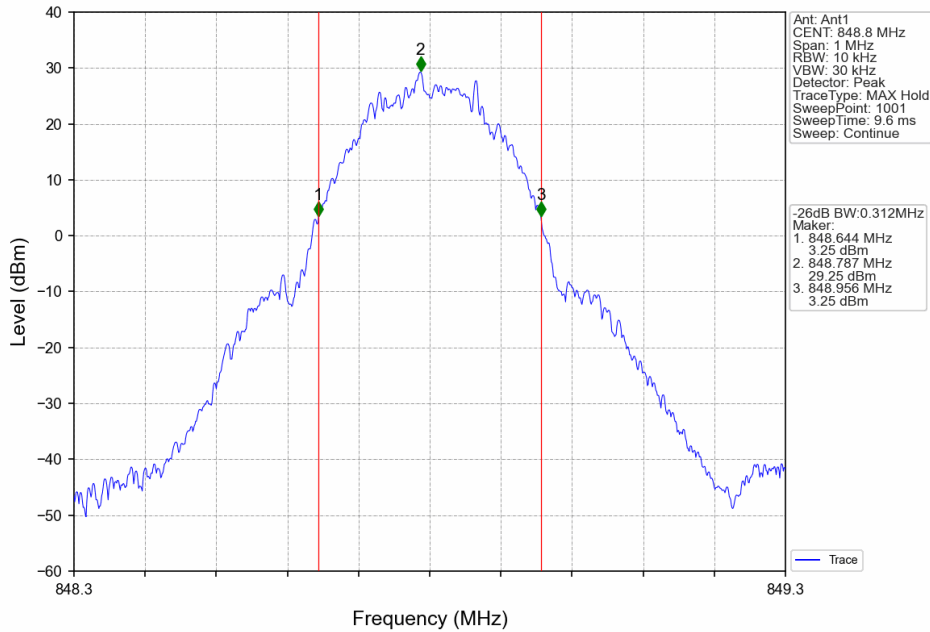


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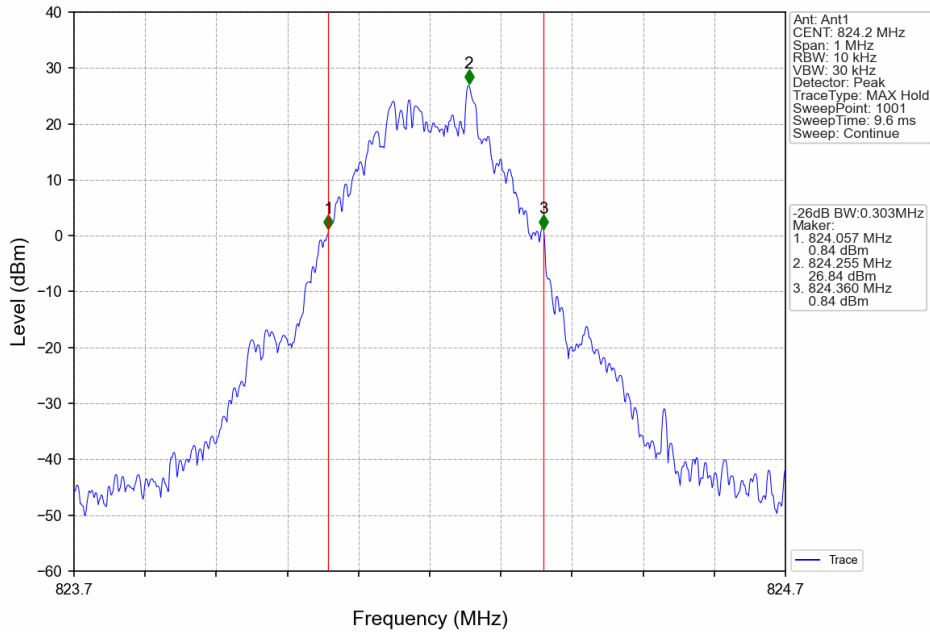


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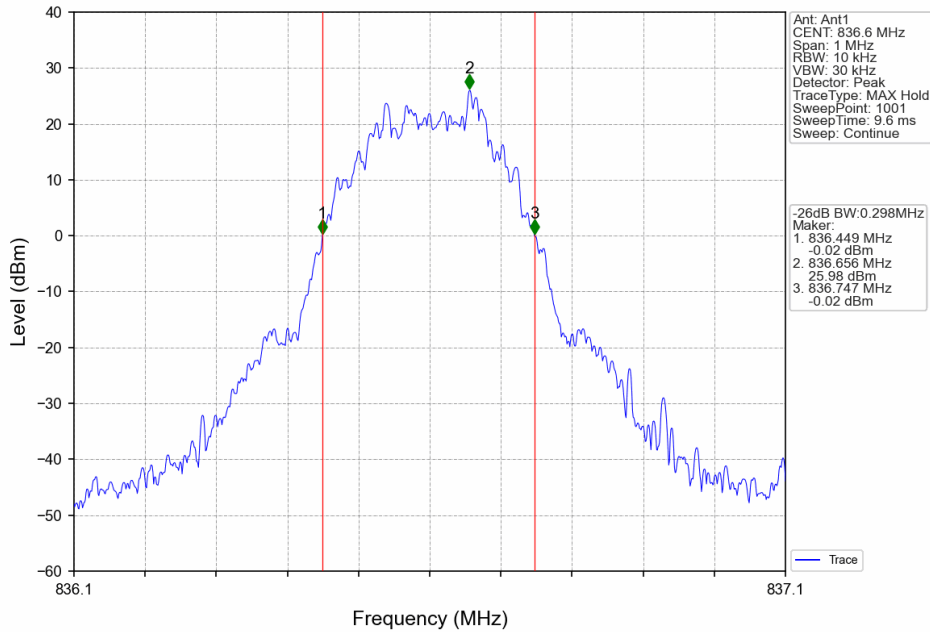
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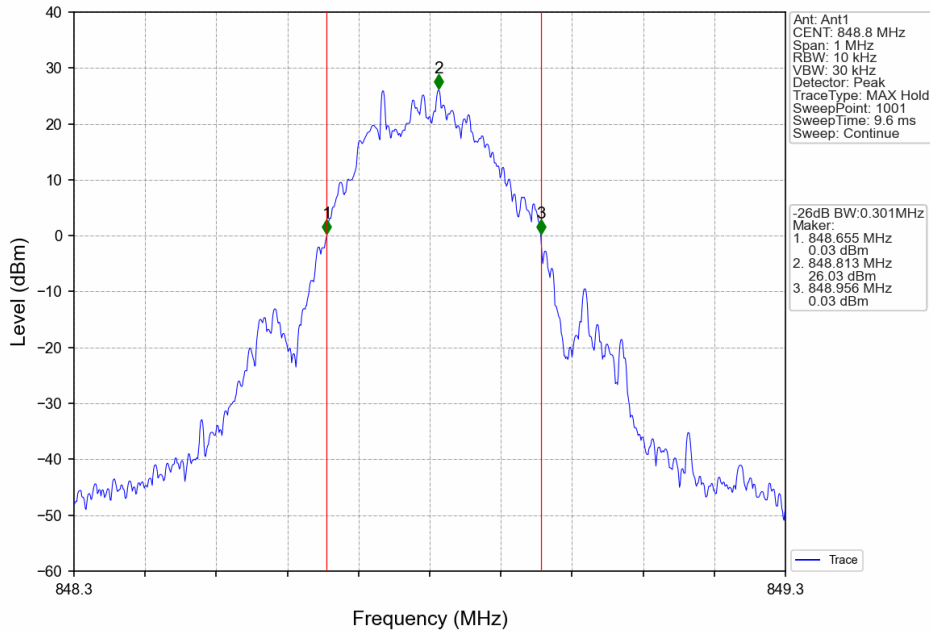


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### 4. Peak-Average Ratio

#### 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	9.66	<=13	Pass
			836.6	9.44	<=13	Pass
			848.8	9.64	<=13	Pass
	EGPRS	4 TX Slots	824.2	10.12	<=13	Pass
			836.6	9.99	<=13	Pass
			848.8	9.99	<=13	Pass

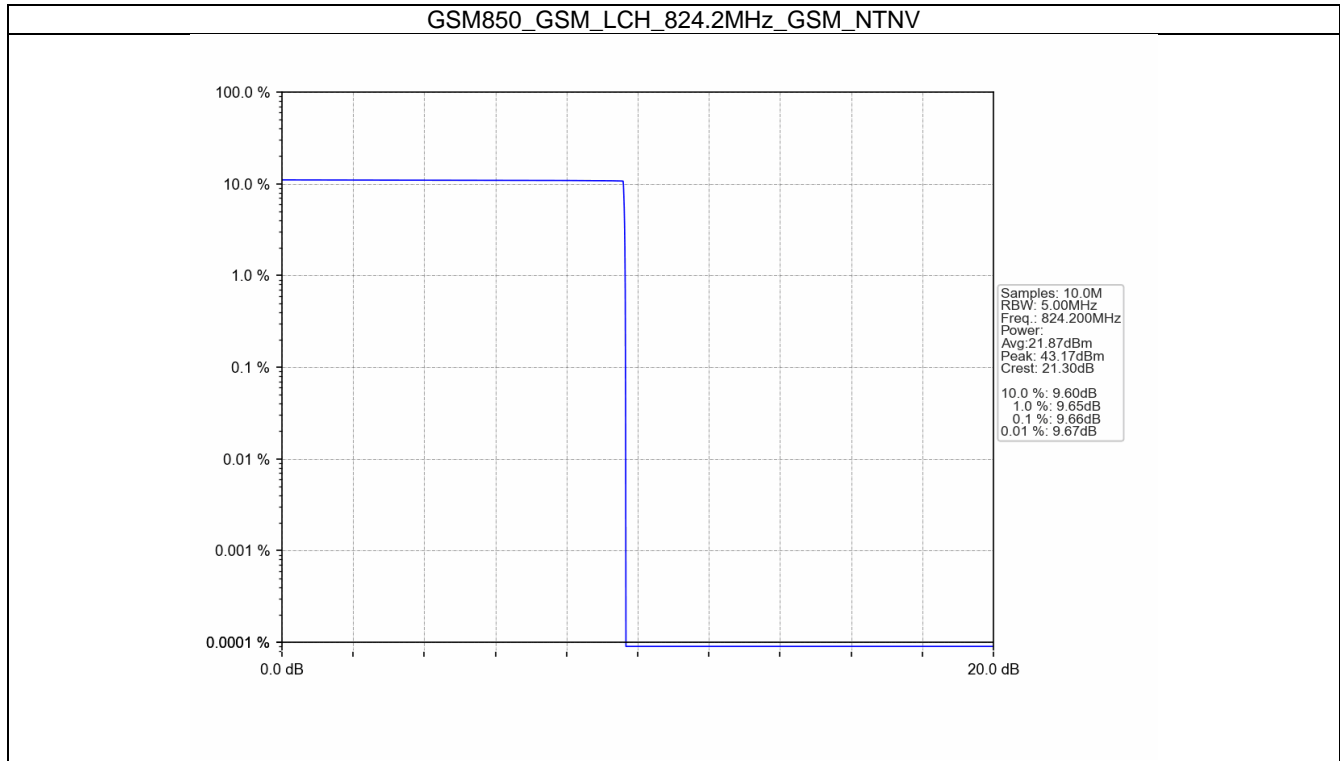


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4.1.2 Test Graph



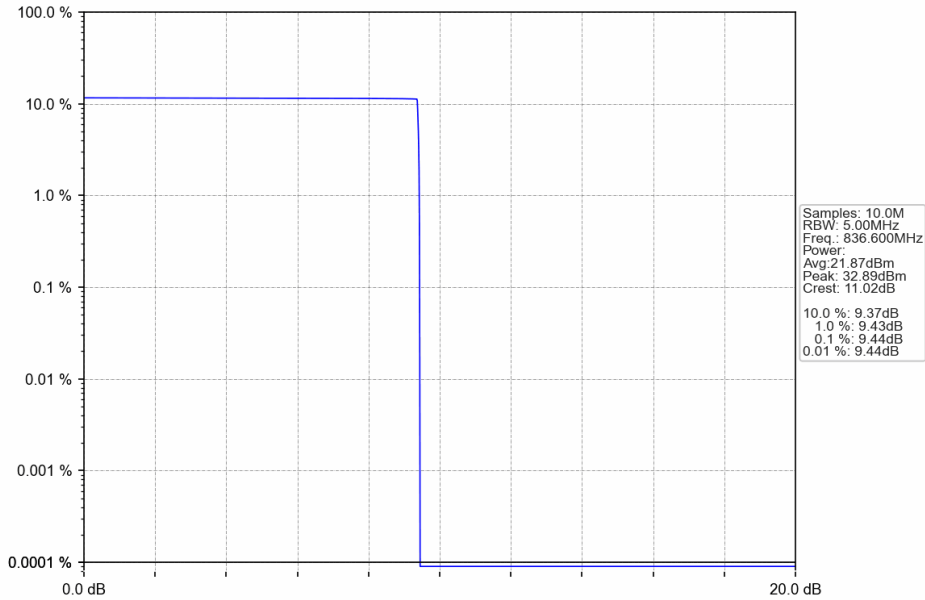
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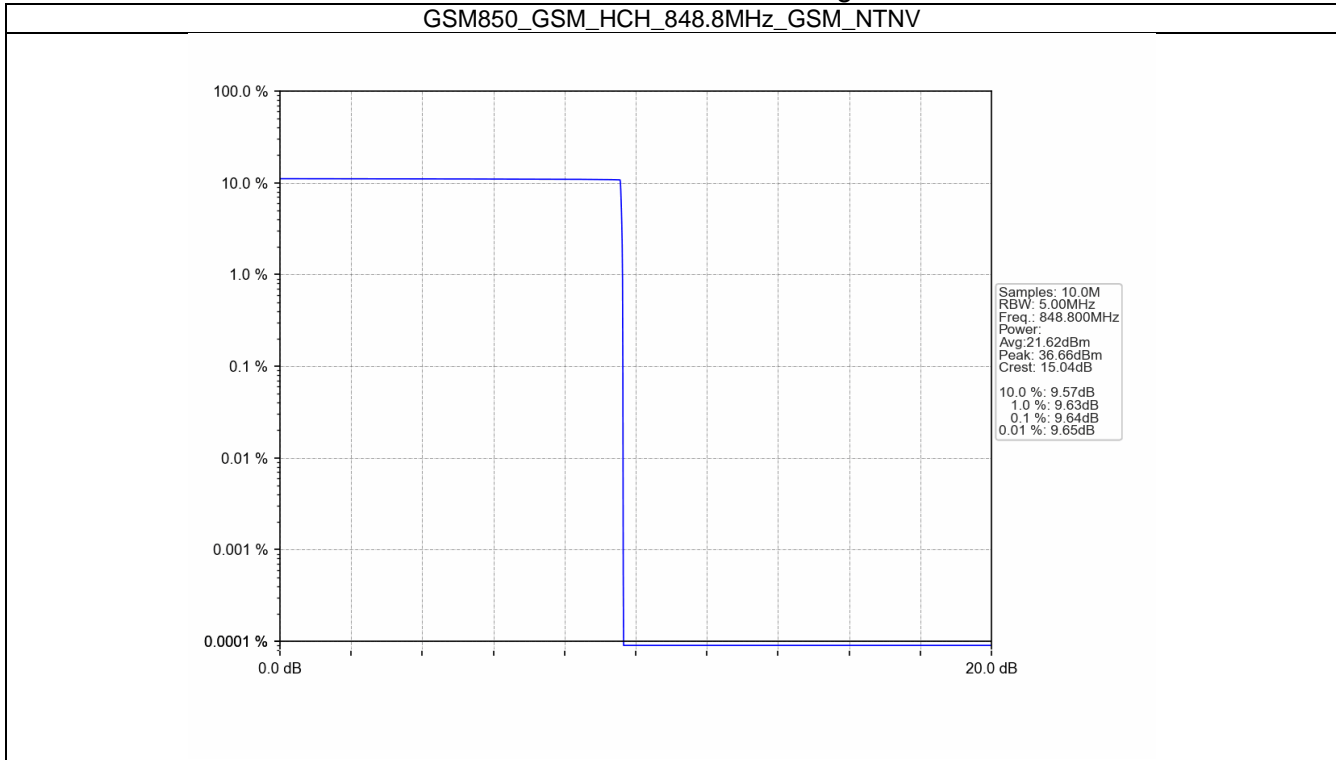
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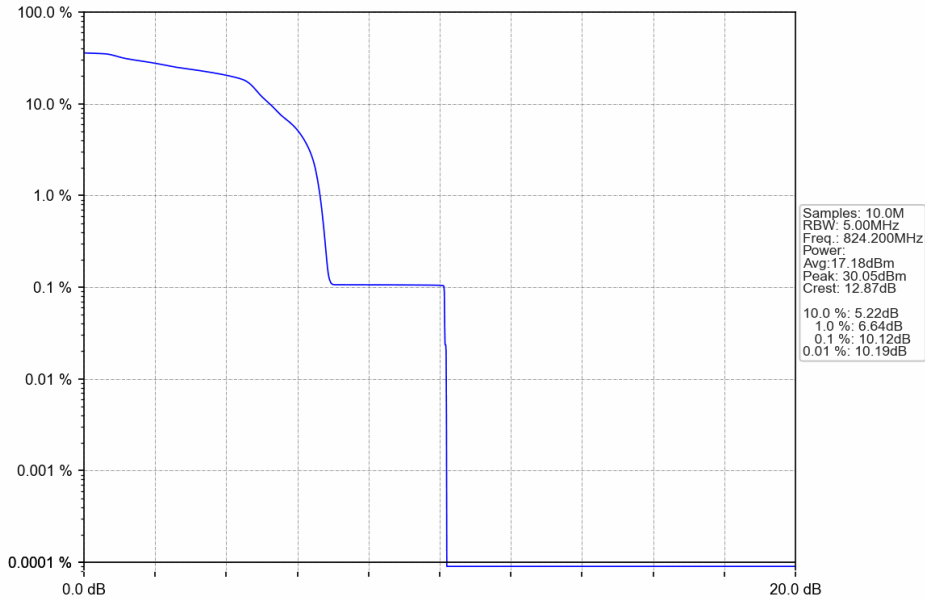
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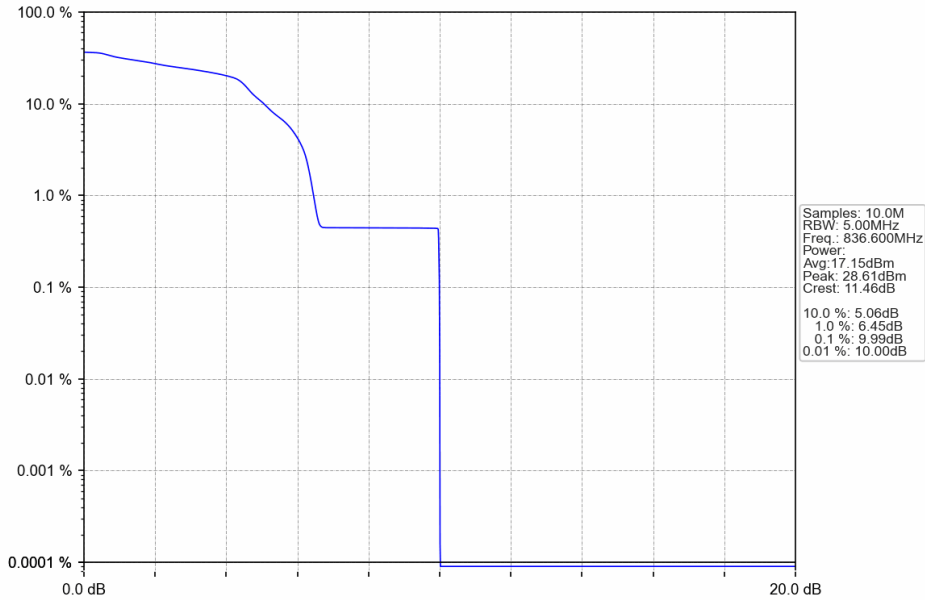
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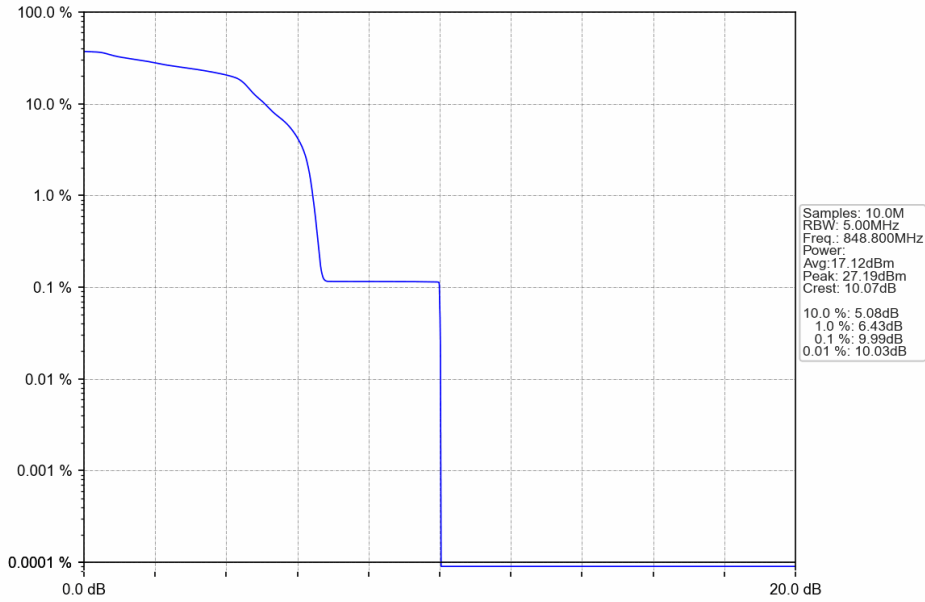
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5. Spurious Emission & Band Edges

5.1 GSM850

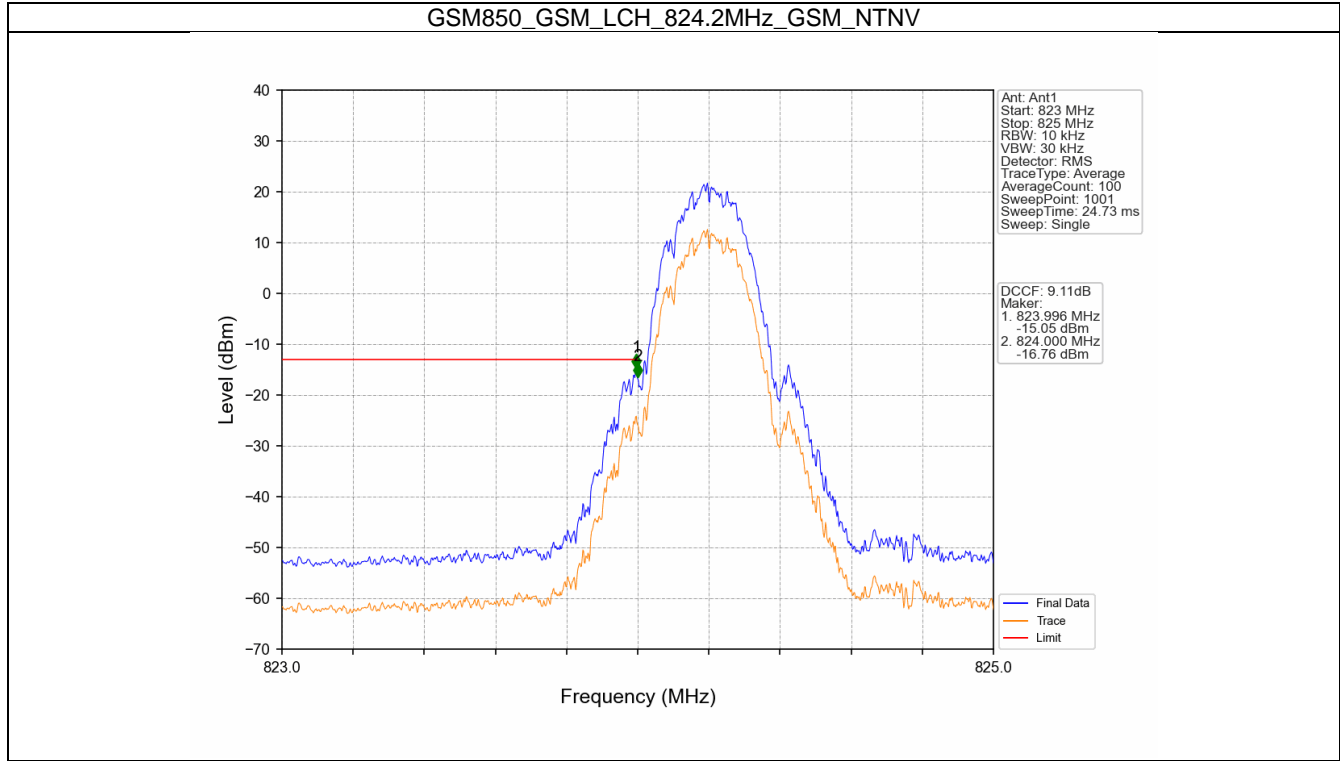
5.1.1 Test Result

Table with columns: ENV, Mode (Network, Subset), Frequency (MHz), Spurious Emission (Result, Limit), and Verdict. Data rows show GSM and EGPRS modes with frequencies 824.2, 836.6, and 848.8 MHz, all resulting in 'Pass' verdicts.



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5.1.2 Test Graph

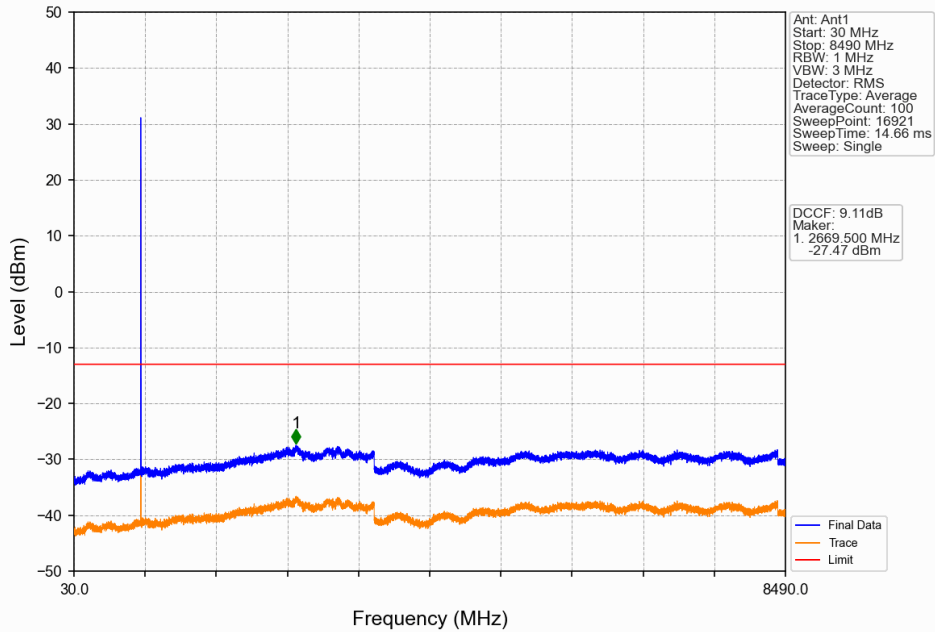


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GSM850\_GSM\_LCH\_824.2MHz\_GSM\_NTNV



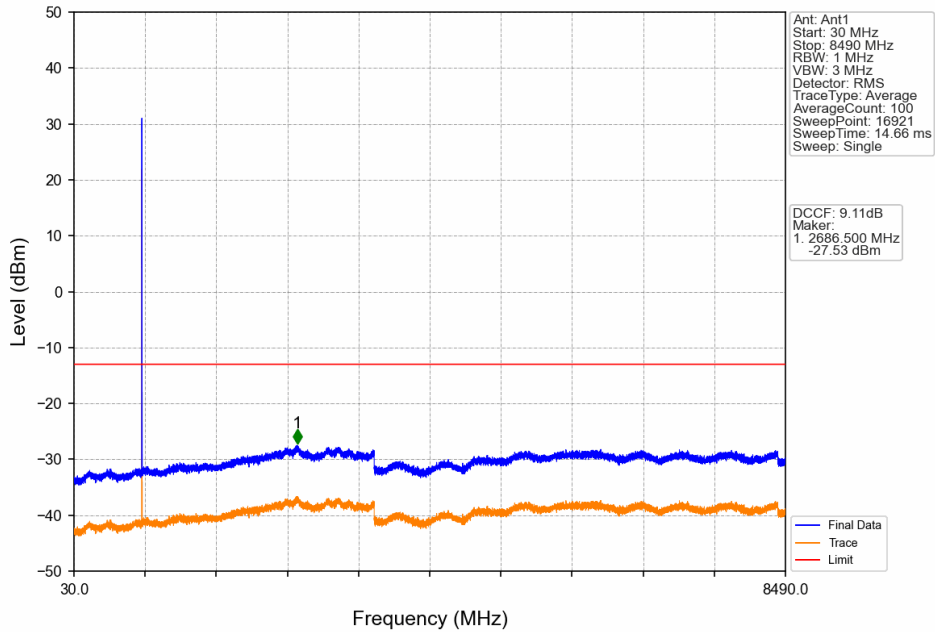
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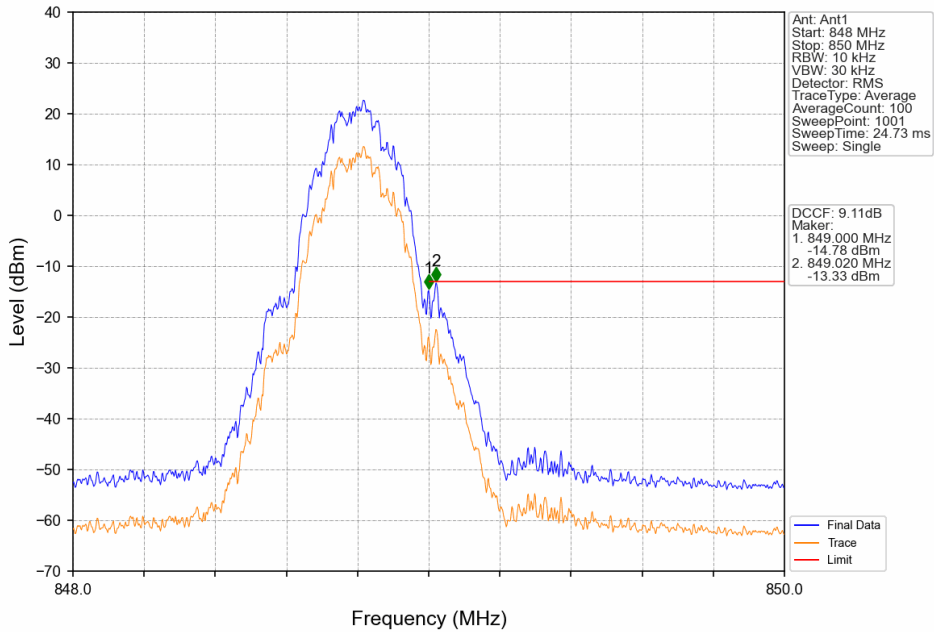


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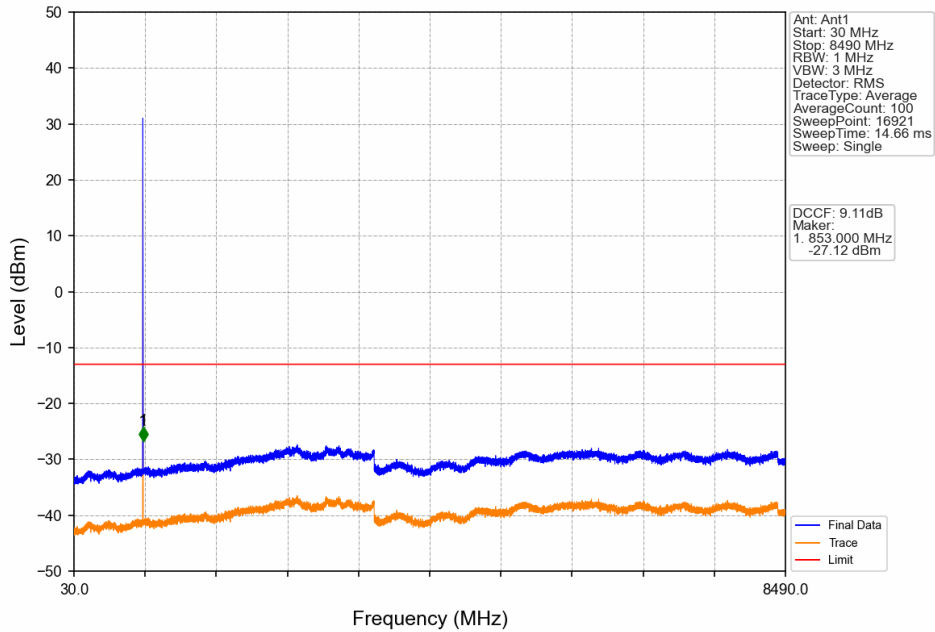


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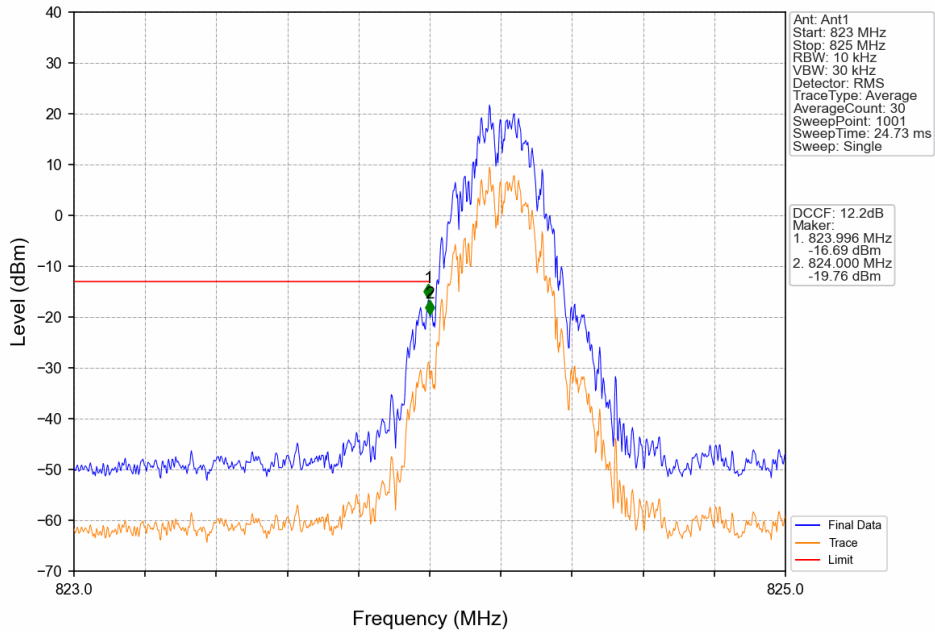


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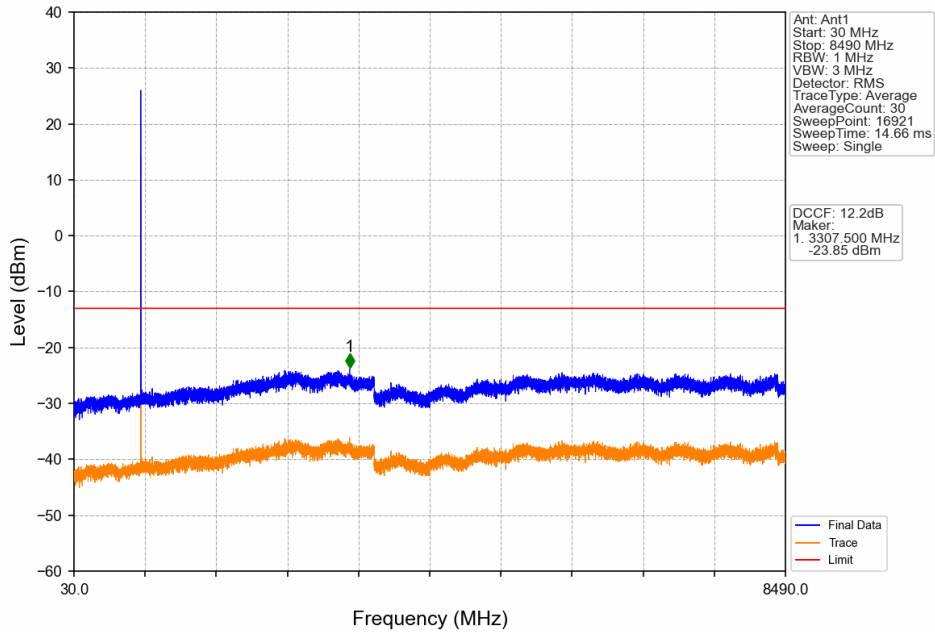
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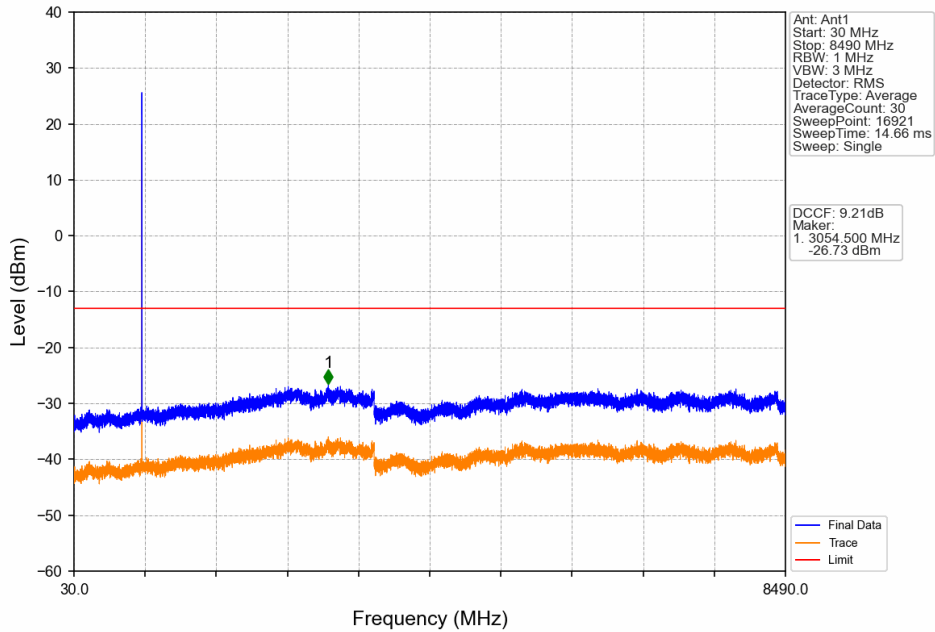
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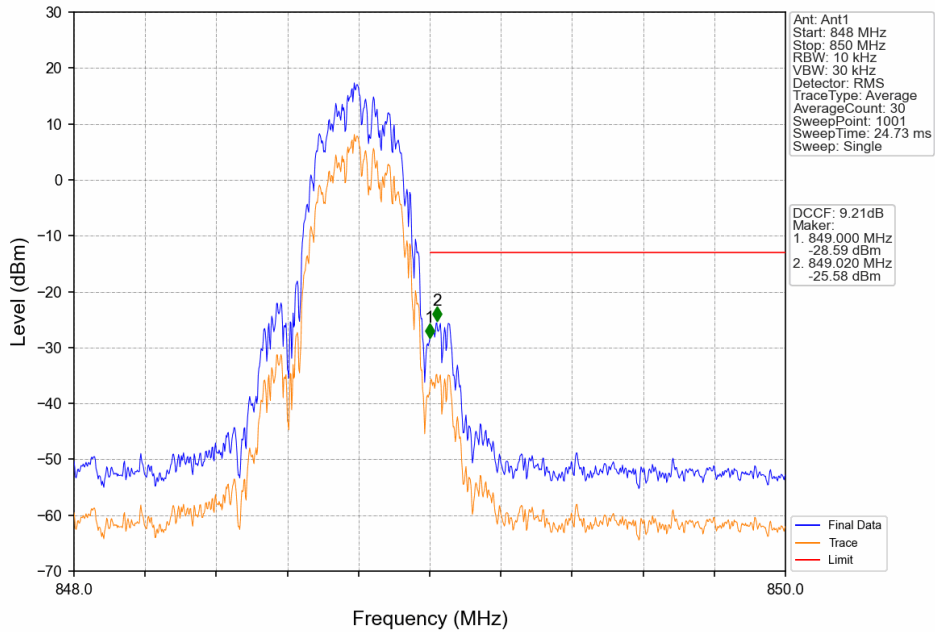


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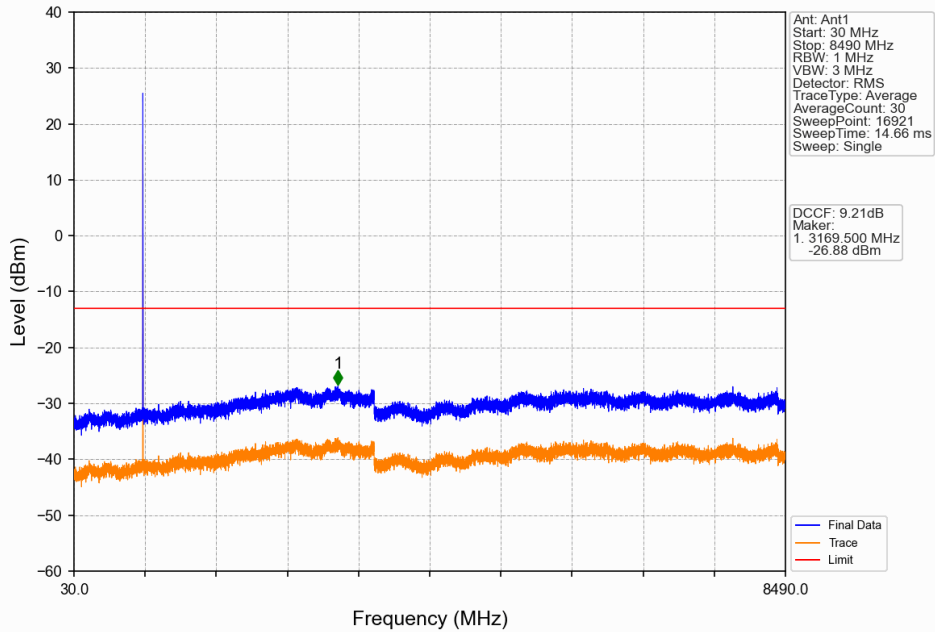


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## 6. Field Strength of Spurious Radiation

Test Band = GSM850\_  
 Test Channel = Low

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.4000	43.79	-48.22	25.27	-74.42	-13.00	61.42	Horizontal
2	2472.6000	42.59	-47.32	27.22	-72.76	-13.00	59.76	Horizontal
3	3296.8000	41.95	-46.67	28.48	-71.50	-13.00	58.50	Horizontal
4	4121.0000	41.01	-45.91	29.39	-70.77	-13.00	57.77	Horizontal
5	4945.2000	40.85	-45.69	31.28	-68.81	-13.00	55.81	Horizontal
6	5769.4000	39.48	-44.63	32.65	-67.76	-13.00	54.76	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.4000	43.24	-48.22	25.27	-74.97	-13.00	61.97	Vertical
2	2472.6000	42.36	-47.32	27.22	-72.99	-13.00	59.99	Vertical
3	3296.8000	42.35	-46.67	28.48	-71.10	-13.00	58.10	Vertical
4	4121.0000	40.30	-45.91	29.39	-71.48	-13.00	58.48	Vertical
5	4945.2000	40.87	-45.69	31.28	-68.79	-13.00	55.79	Vertical
6	5769.4000	39.59	-44.63	32.65	-67.65	-13.00	54.65	Vertical



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Test Band = GSM850\_
Test Channel = Mid

Table with 9 columns: NO., Frequency [MHz], Reading [dBµV], Factor [dB], AF [dB/m], Level [dBm], Limit [dBm], Margin [dB], Polarity. Contains 6 rows of test data.

Table with 9 columns: NO., Frequency [MHz], Reading [dBµV], Factor [dB], AF [dB/m], Level [dBm], Limit [dBm], Margin [dB], Polarity. Contains 6 rows of test data.



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**Test Band = GSM850\_**  
**Test Channel = High**

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.6000	43.23	-48.16	25.35	-74.85	-13.00	61.85	Horizontal
2	2546.4000	42.17	-47.11	27.39	-72.81	-13.00	59.81	Horizontal
3	3395.2000	41.37	-46.55	28.54	-71.90	-13.00	58.90	Horizontal
4	4244.0000	40.98	-45.88	29.69	-70.48	-13.00	57.48	Horizontal
5	5092.8000	40.07	-45.41	31.62	-68.98	-13.00	55.98	Horizontal
6	5941.6000	39.65	-44.74	32.69	-67.67	-13.00	54.67	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.6000	43.19	-48.16	25.35	-74.89	-13.00	61.89	Vertical
2	2546.4000	42.39	-47.11	27.39	-72.59	-13.00	59.59	Vertical
3	3395.2000	41.84	-46.55	28.54	-71.43	-13.00	58.43	Vertical
4	4244.0000	40.82	-45.88	29.69	-70.64	-13.00	57.64	Vertical
5	5092.8000	39.67	-45.41	31.62	-69.38	-13.00	56.38	Vertical
6	5941.6000	39.92	-44.74	32.69	-67.40	-13.00	54.40	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---



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