



Report No.: SEWM2311000478RG01

Rev.: 01

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# Appendix B.1

## GSM 850



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### Effective (Isotropic) Radiated Power Output Data

GSM850\_ERP Ant0

#### Test Result

Band: GSM850								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	GSM	GSM	824.2	32.46	-1.60	28.71	<=38.45	Pass
			836.6	32.65	-1.60	28.90	<=38.45	Pass
			848.8	32.61	-1.60	28.86	<=38.45	Pass
	EGPRS	1 TX Slot	824.2	26.36	-1.60	22.61	<=38.45	Pass
		2 TX Slots	824.2	24.70	-1.60	20.95	<=38.45	Pass
		3 TX Slots	824.2	23.90	-1.60	20.15	<=38.45	Pass
		4 TX Slots	824.2	22.96	-1.60	19.21	<=38.45	Pass
		1 TX Slot	836.6	26.22	-1.60	22.47	<=38.45	Pass
		2 TX Slots	836.6	24.70	-1.60	20.95	<=38.45	Pass
		3 TX Slots	836.6	23.78	-1.60	20.03	<=38.45	Pass
		4 TX Slots	836.6	22.85	-1.60	19.10	<=38.45	Pass
		1 TX Slot	848.8	26.18	-1.60	22.43	<=38.45	Pass
		2 TX Slots	848.8	24.65	-1.60	20.90	<=38.45	Pass
		3 TX Slots	848.8	23.64	-1.60	19.89	<=38.45	Pass
		4 TX Slots	848.8	22.97	-1.60	19.22	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15



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### Peak-Average Ratio GSM850

#### Test Result

Band: GSM850						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	9.62	<=13	Pass
			836.6	9.75	<=13	Pass
			848.8	9.64	<=13	Pass
	EGPRS	4 TX Slots	824.2	8.84	<=13	Pass
			836.6	8.85	<=13	Pass
			848.8	8.70	<=13	Pass



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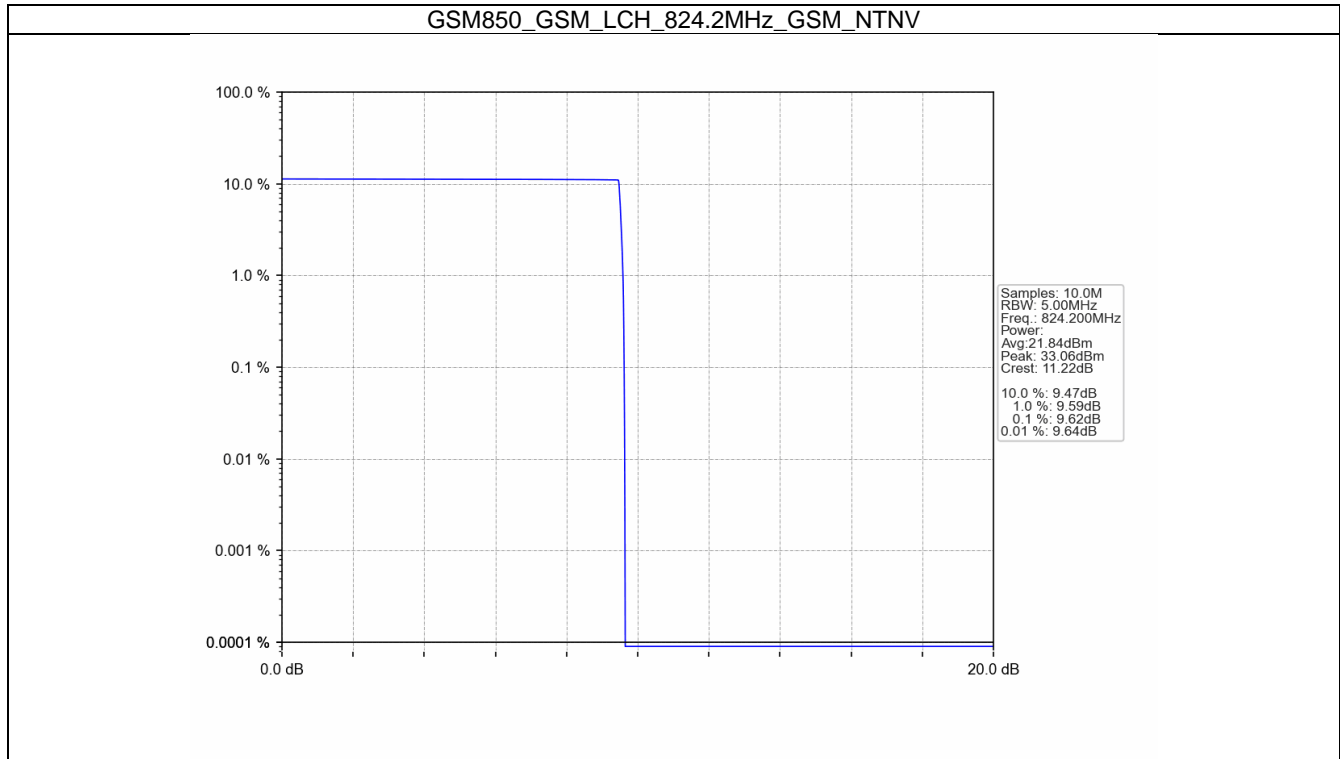
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Test Graph



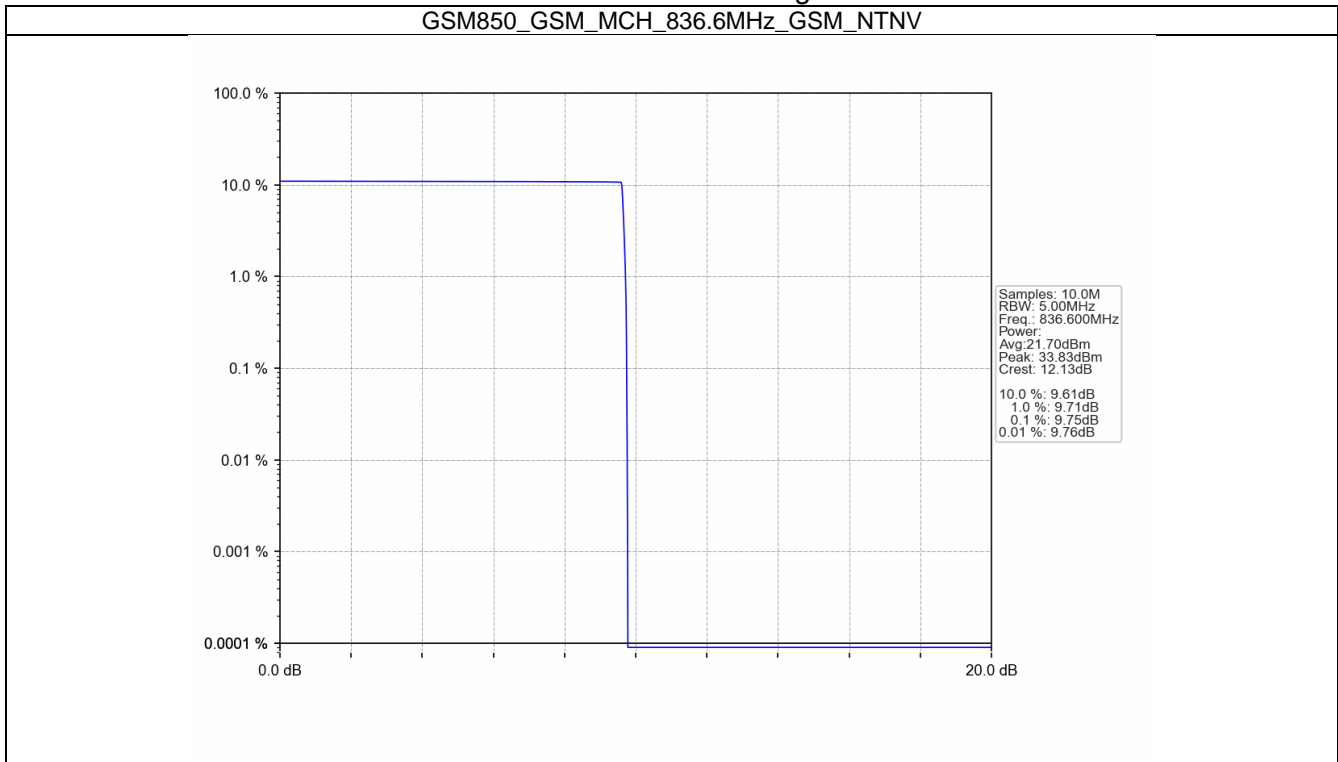
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GSM850\_GSM\_MCH\_836.6MHz\_GSM\_NTNV



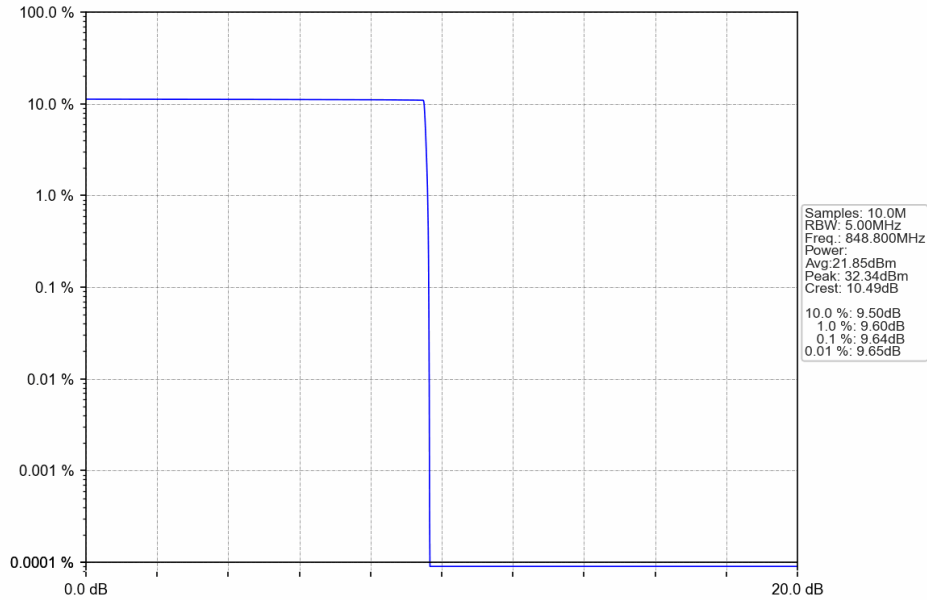
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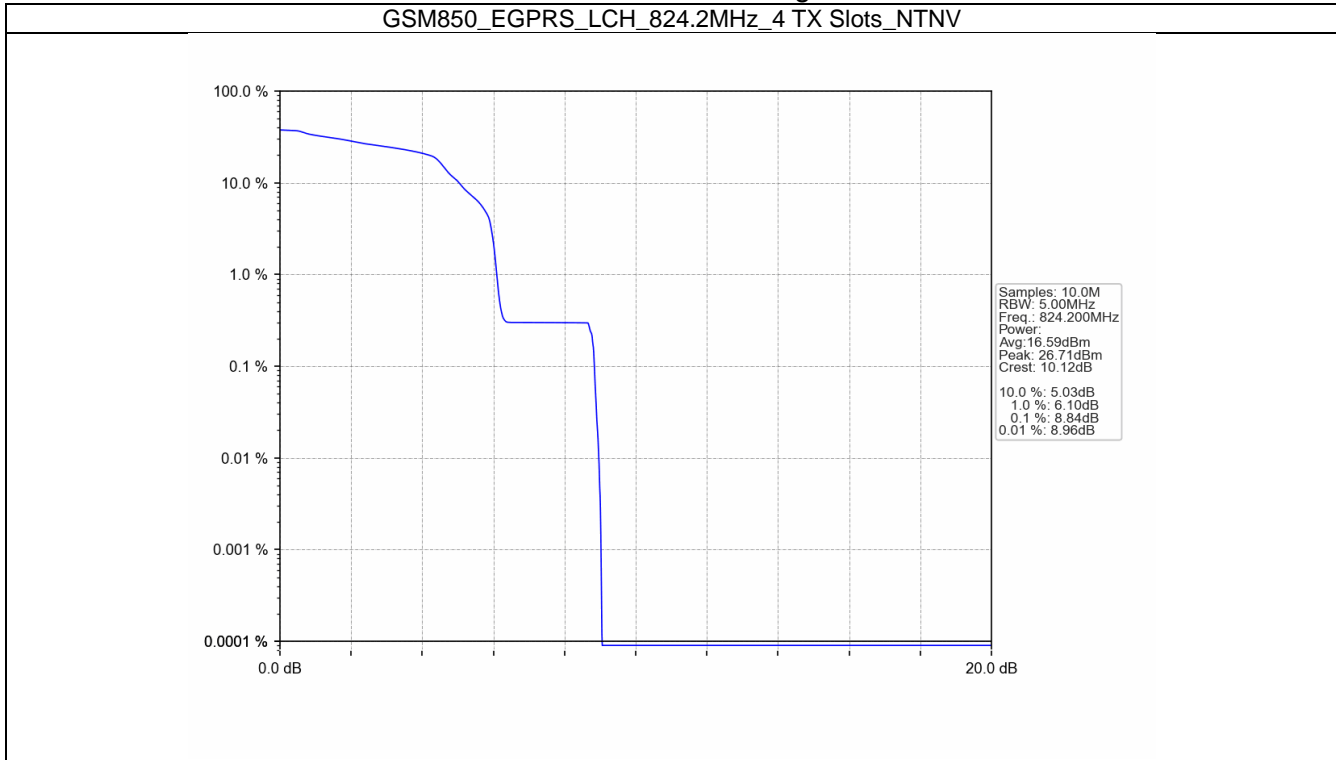
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GSM850\_EGPRS\_LCH\_824.2MHz\_4 TX Slots\_NTNV



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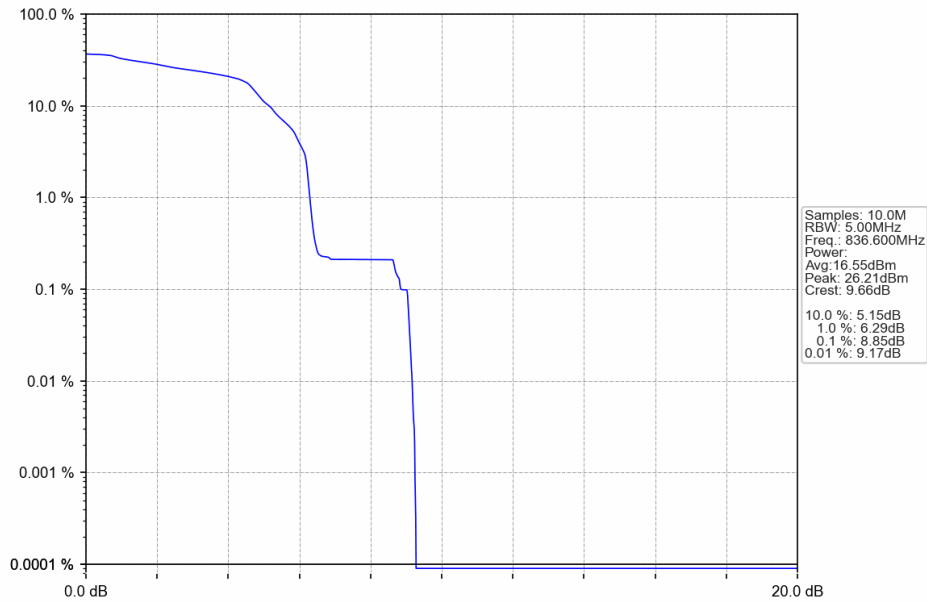
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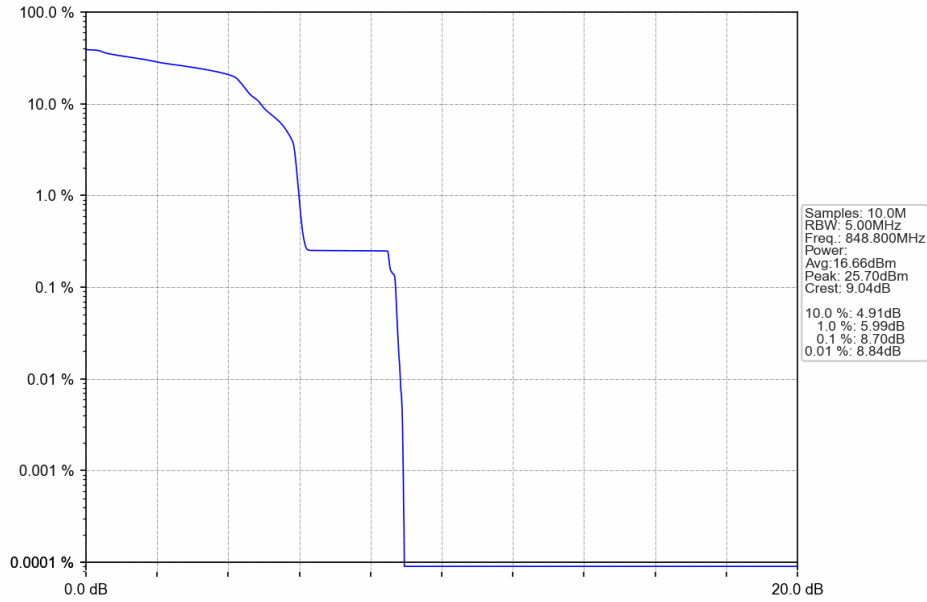
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99% & 26dB Bandwidth  
GSM850\_OBW

Test Result

Band: GSM850						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	0.242	/	Pass
			836.6	0.247	/	Pass
			848.8	0.244	/	Pass
	EGPRS	1 TX Slot	824.2	0.233	/	Pass
			836.6	0.250	/	Pass
			848.8	0.241	/	Pass

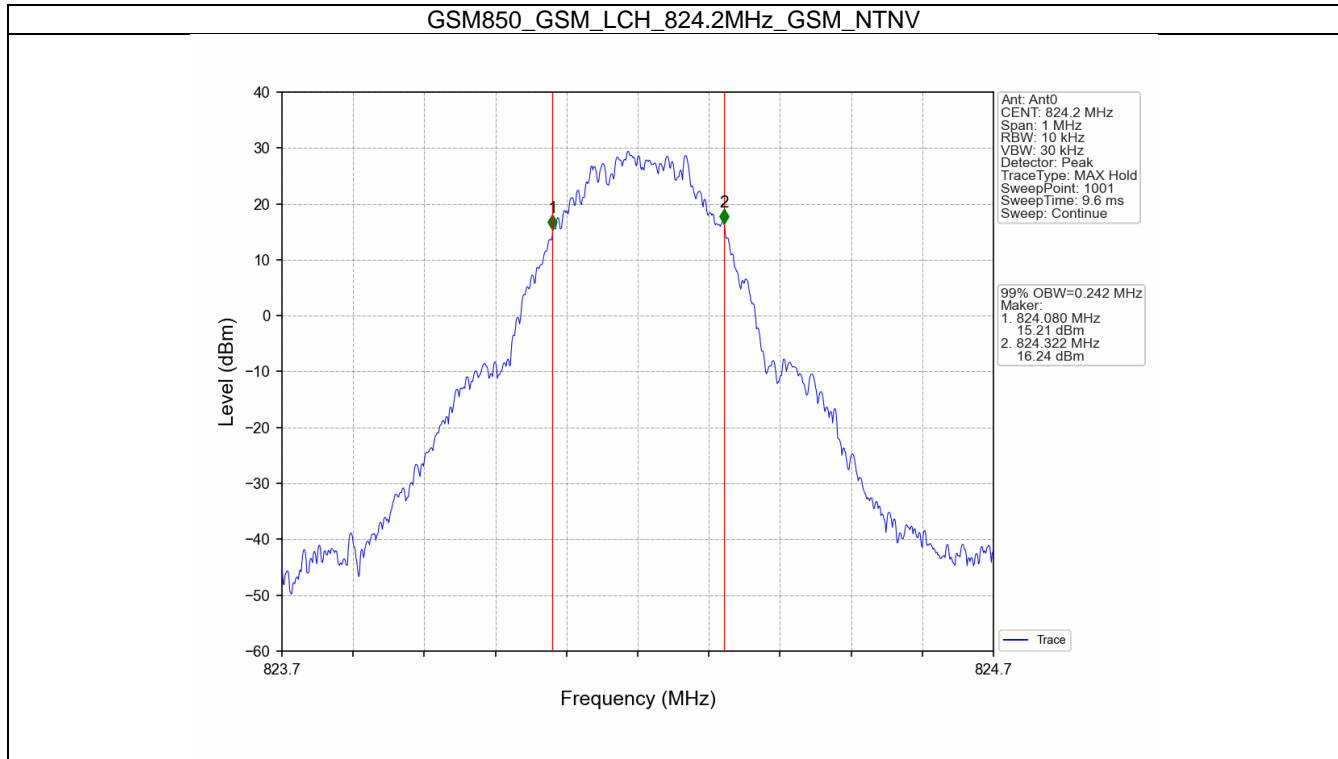


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Test Graph



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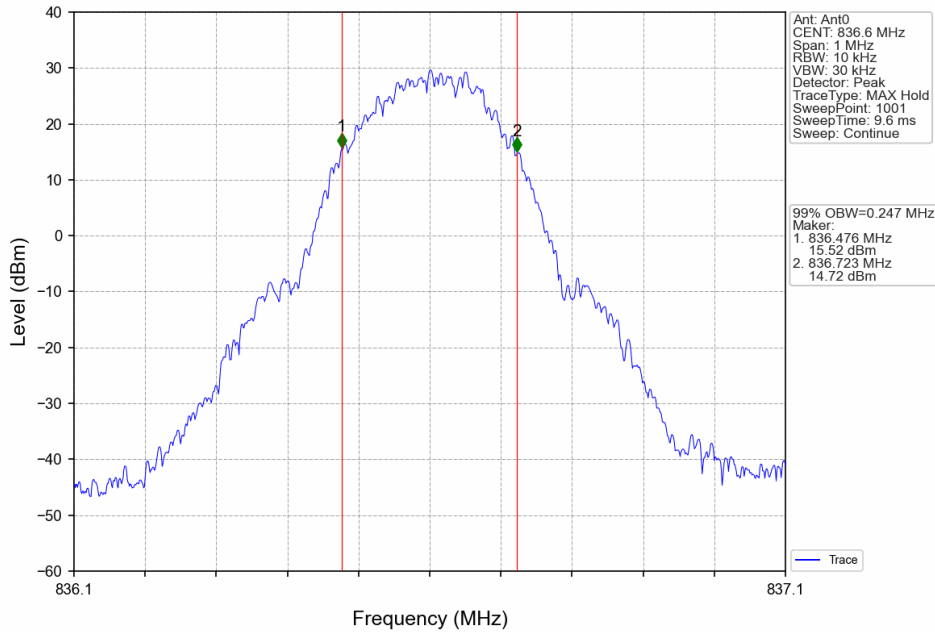
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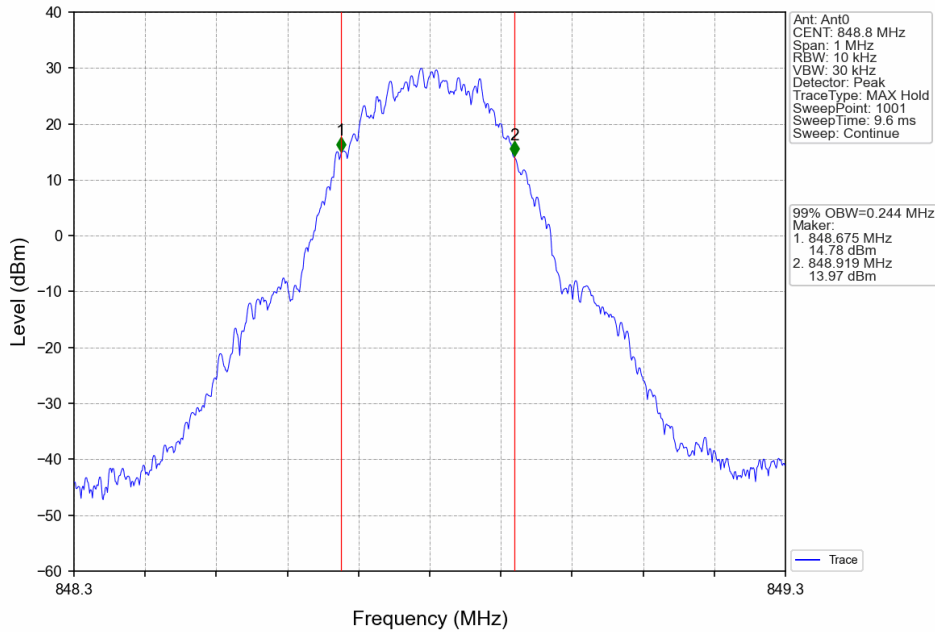
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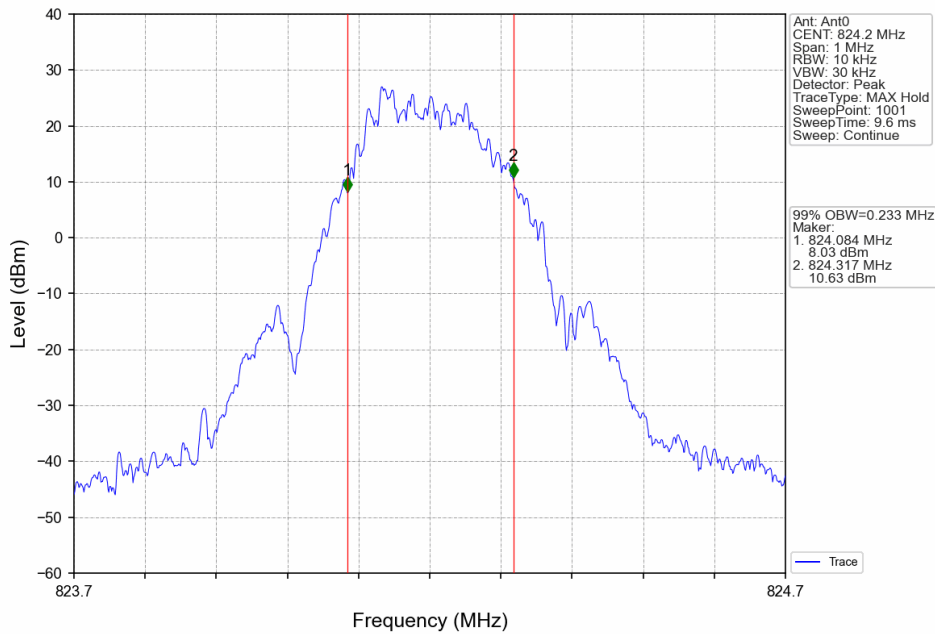
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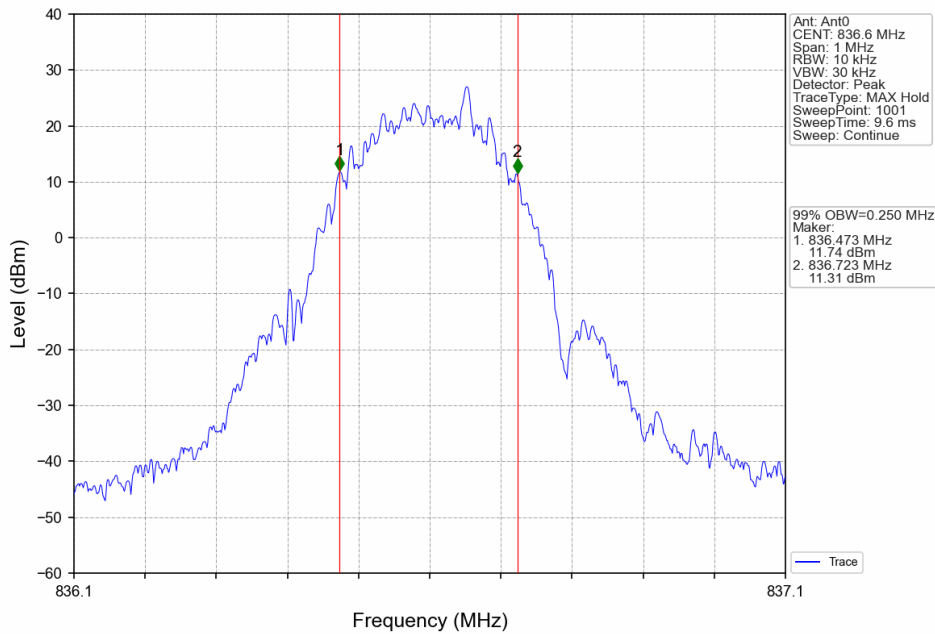
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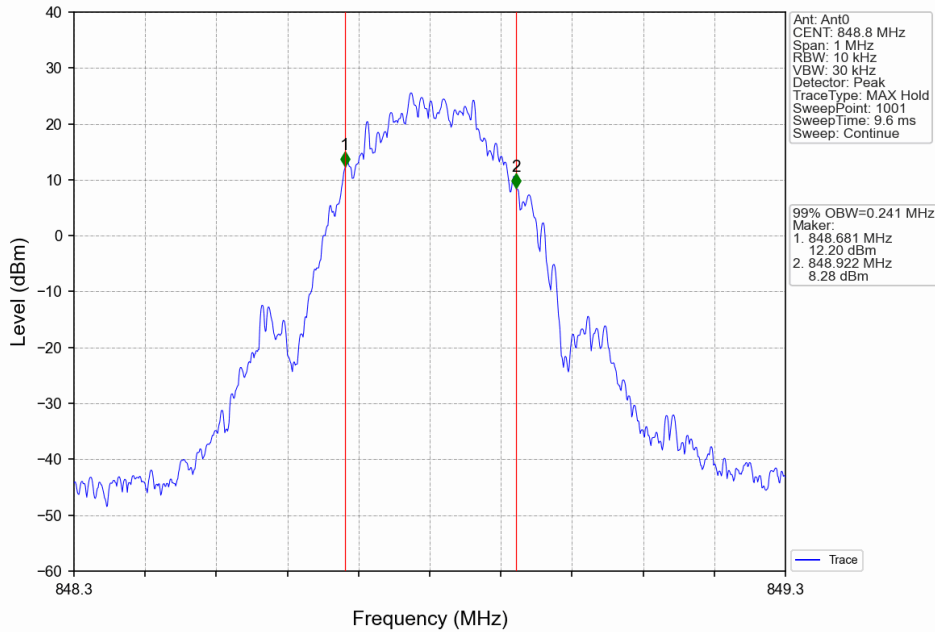
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GSM850\_XDB

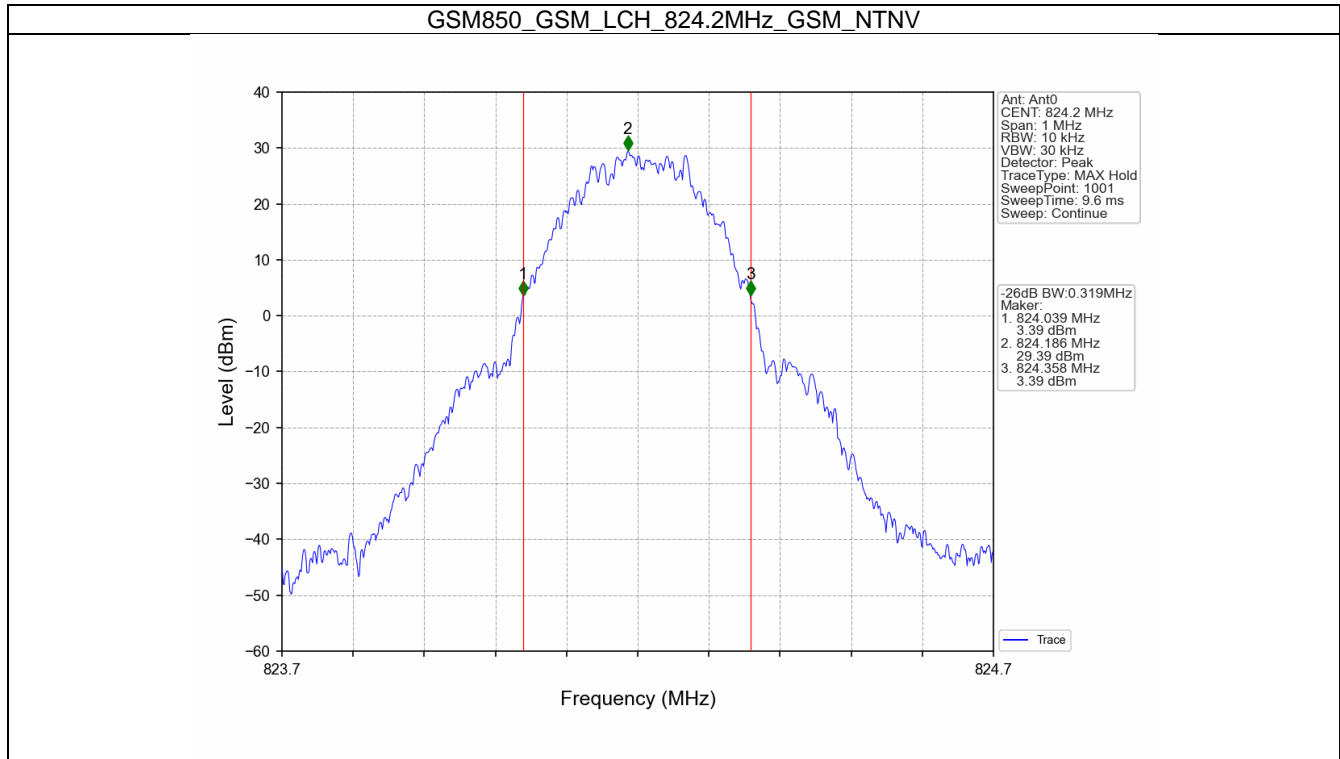
Test Result

Table with columns: ENV, Mode (Network, Subset), Frequency (MHz), 26dB Bandwidth (MHz) (Result, Limit), Verdict. Data rows for NTVN under GSM and EGPRS modes.



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Test Graph



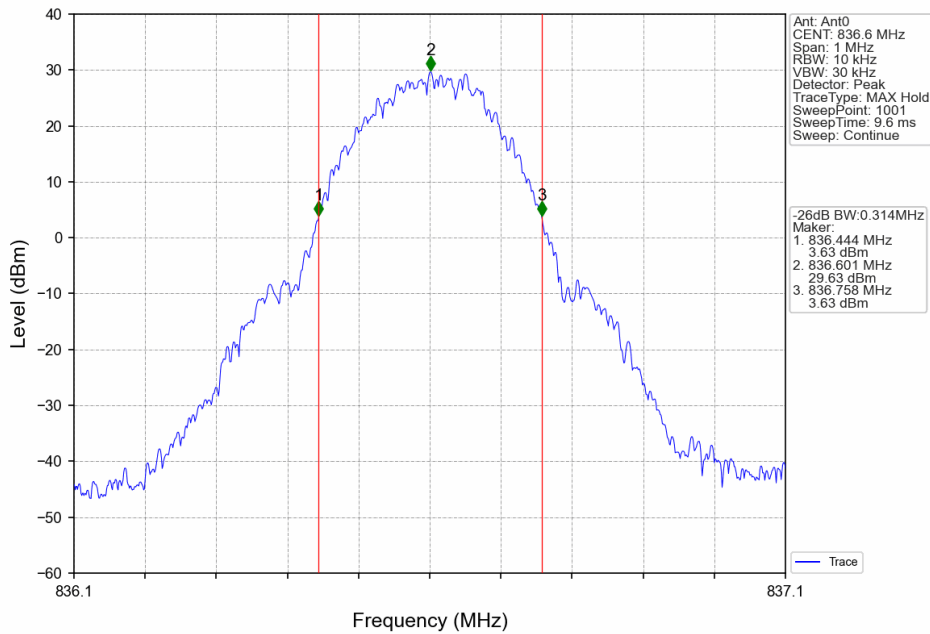
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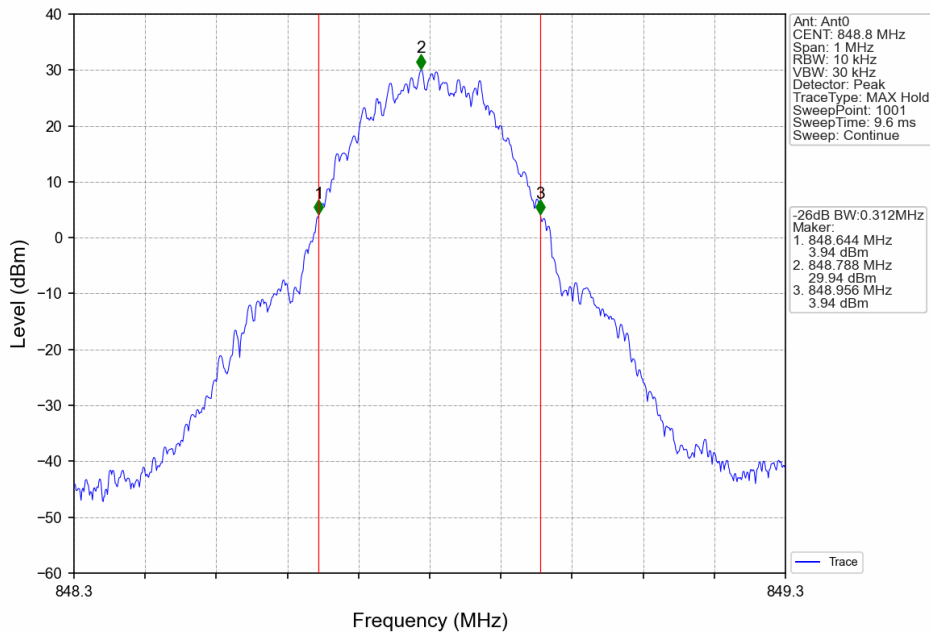
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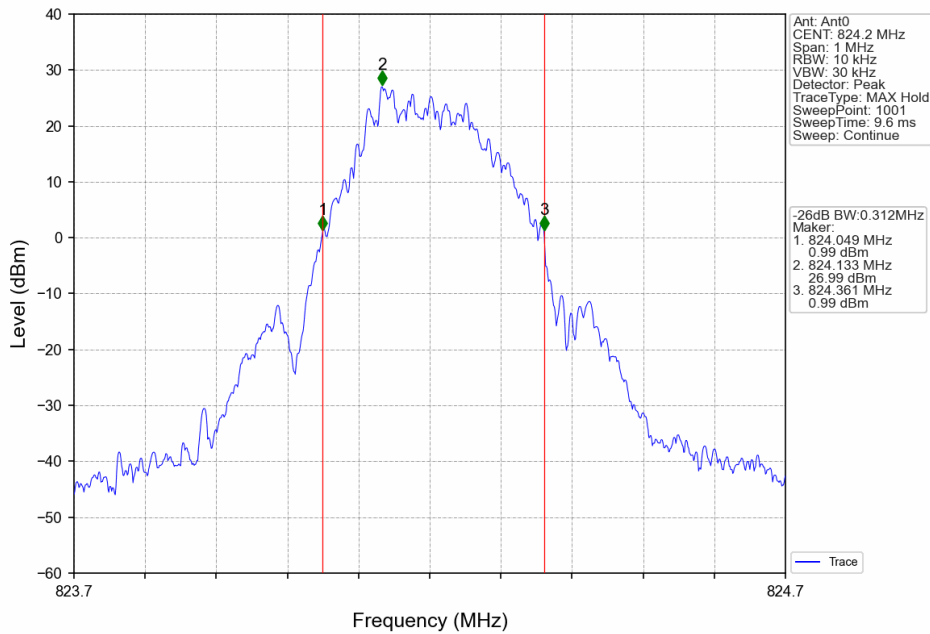
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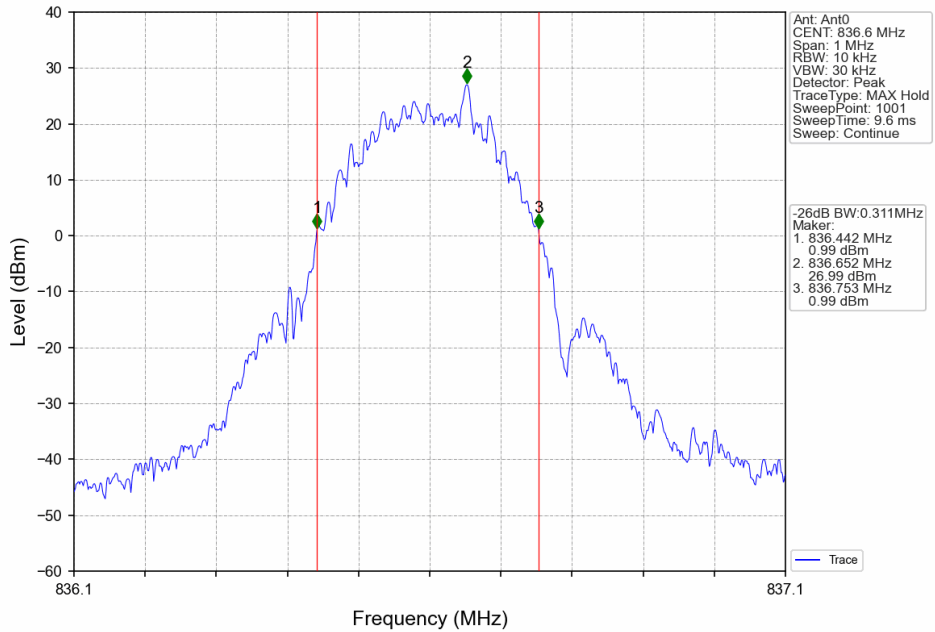
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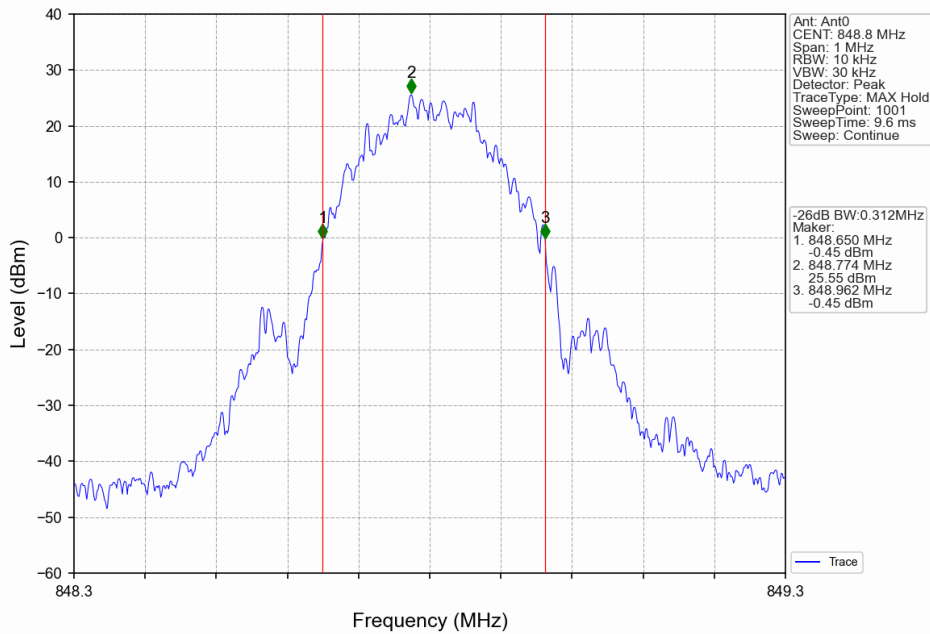
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Rev.: 01

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### Spurious Emission & Band Edge

### GSM850

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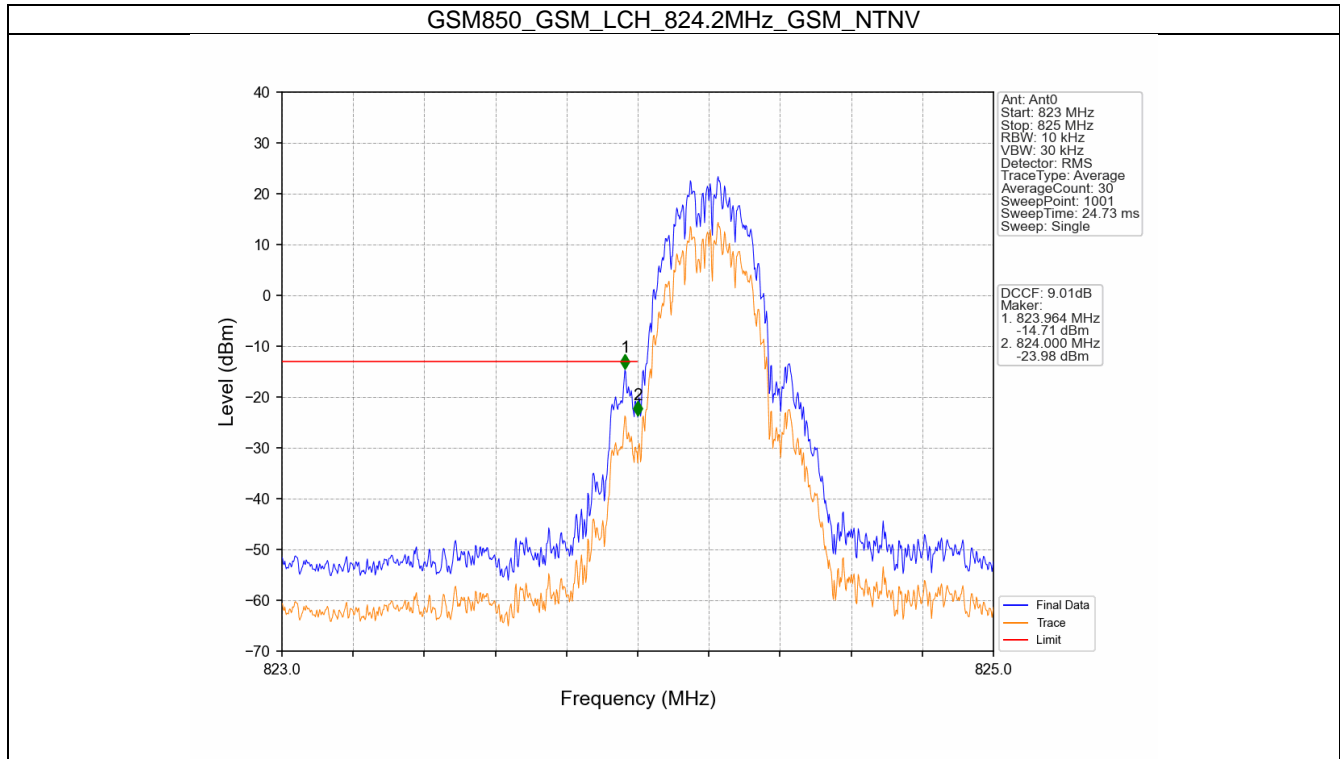
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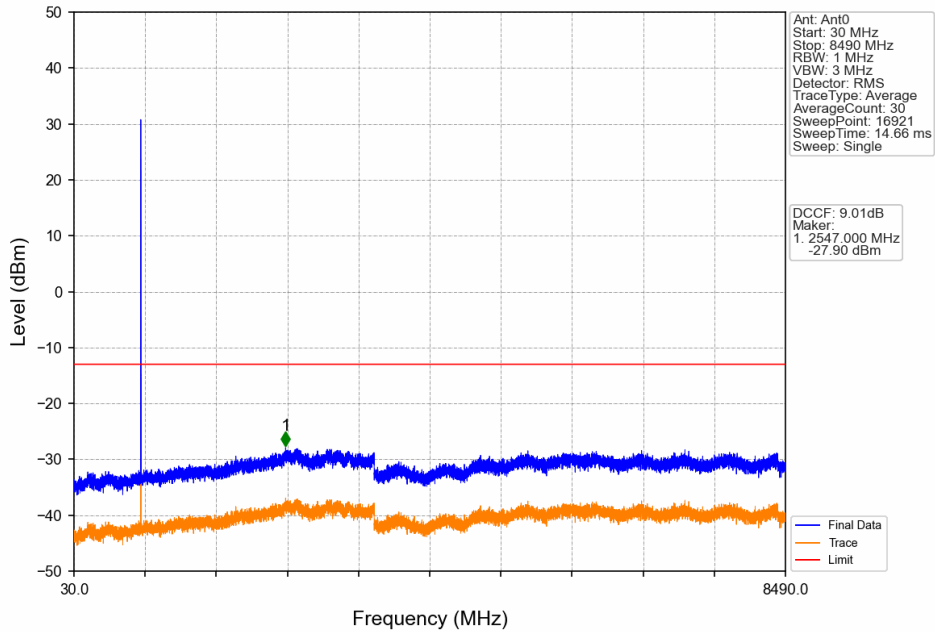
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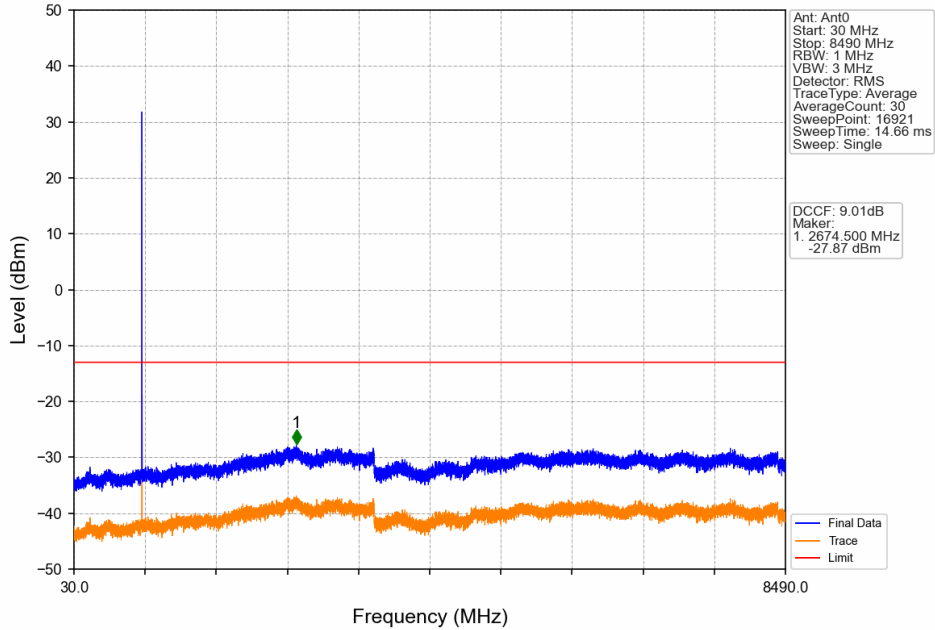
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GSM850\_GSM\_MCH\_836.6MHz\_GSM\_NTNV



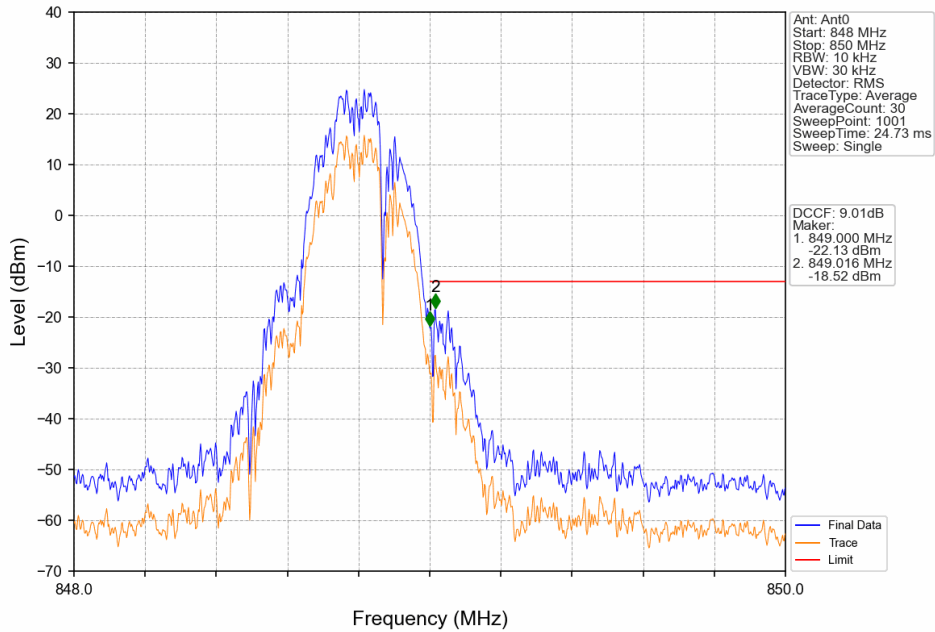
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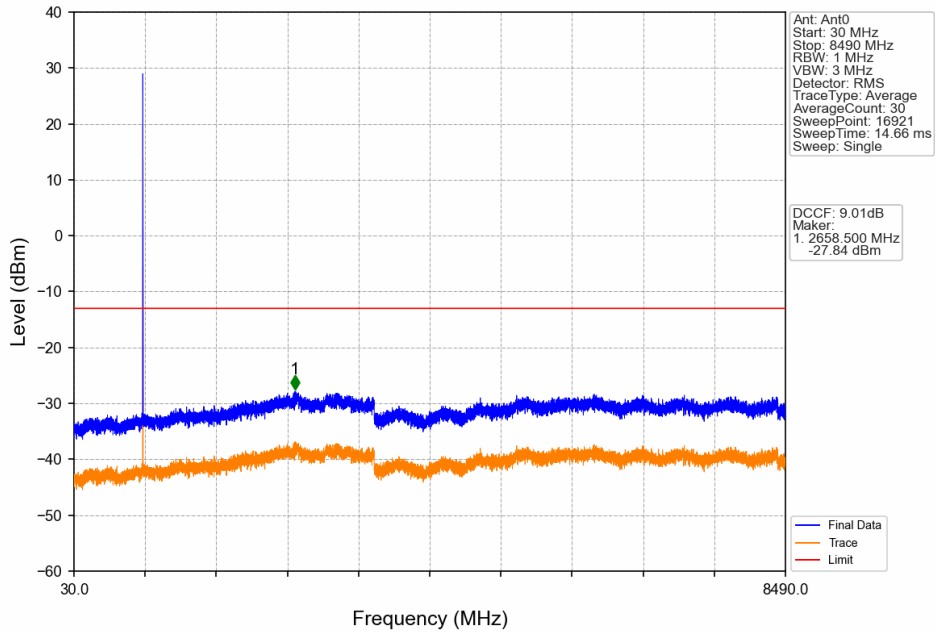
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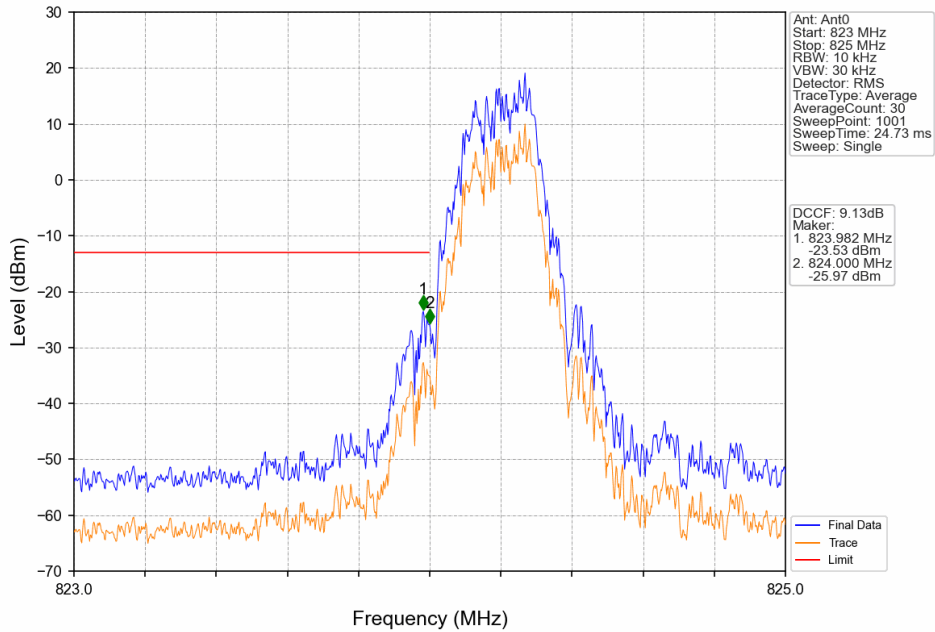
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GSM850\_EGPRS\_LCH\_824.2MHz\_1 TX Slot\_NTNV

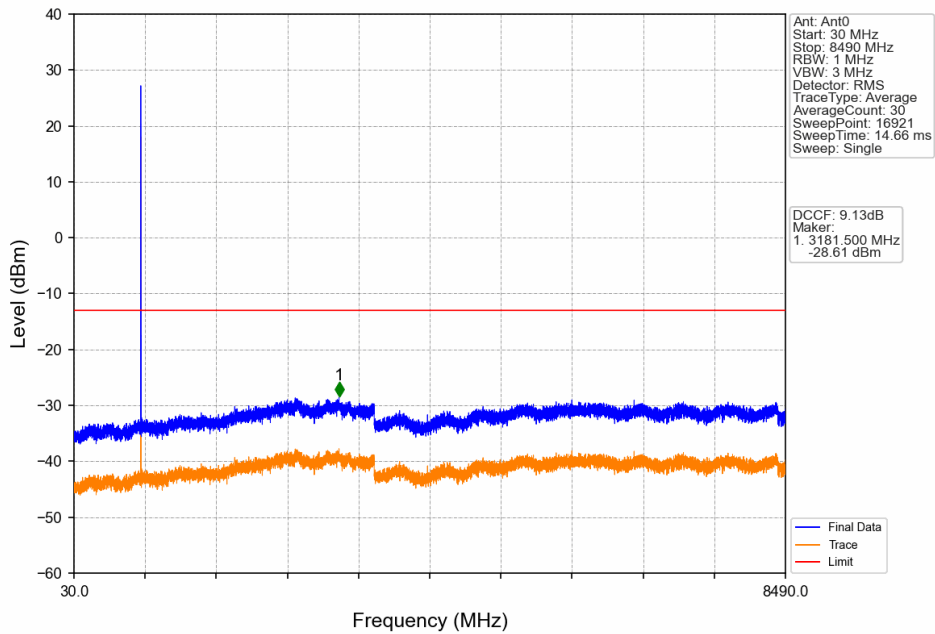


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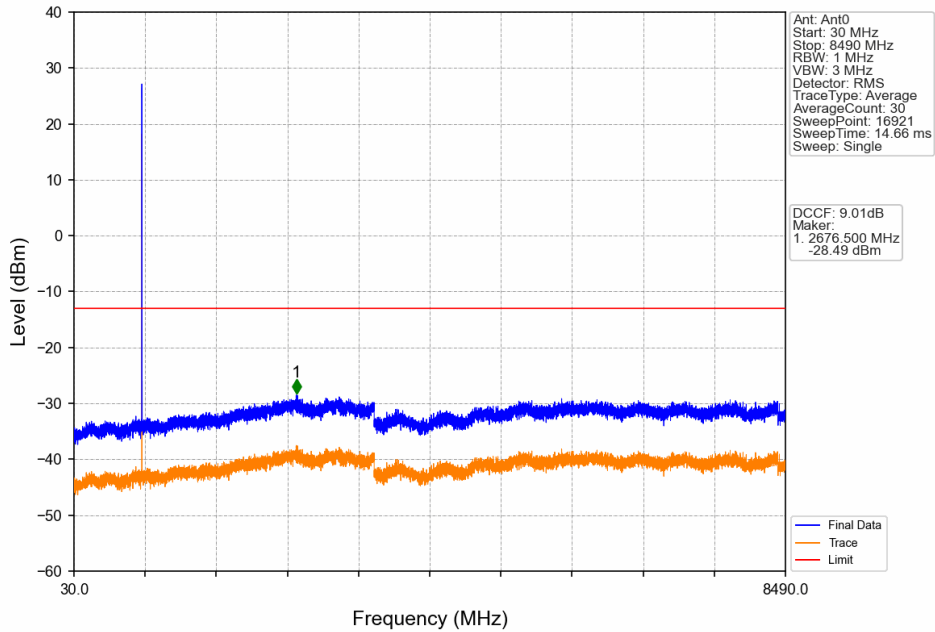


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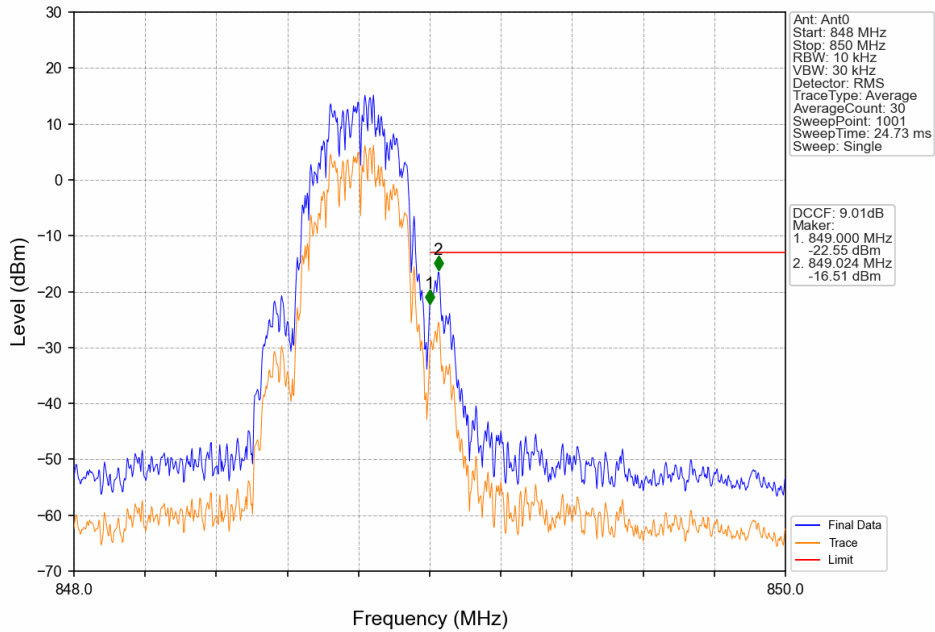
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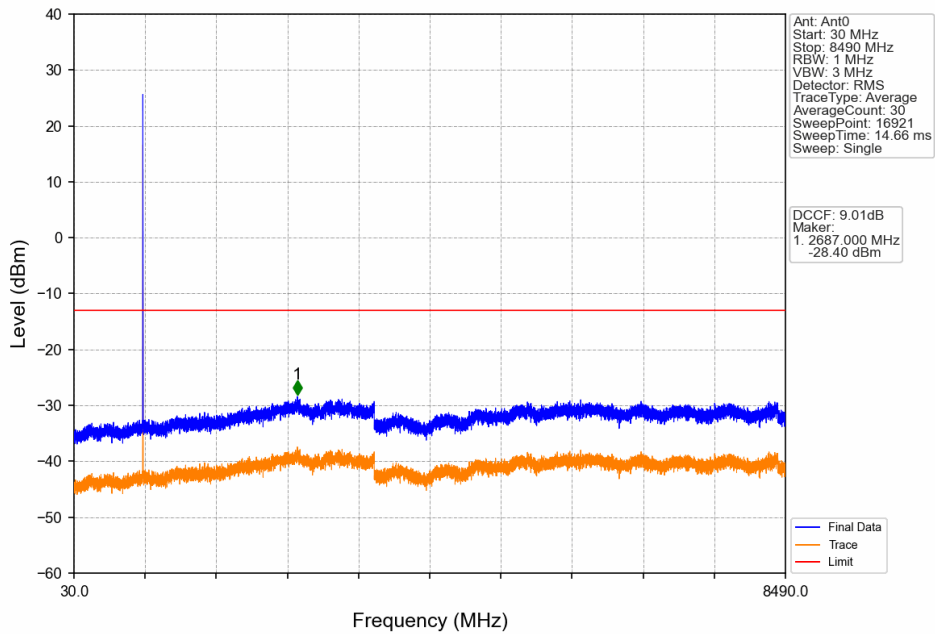


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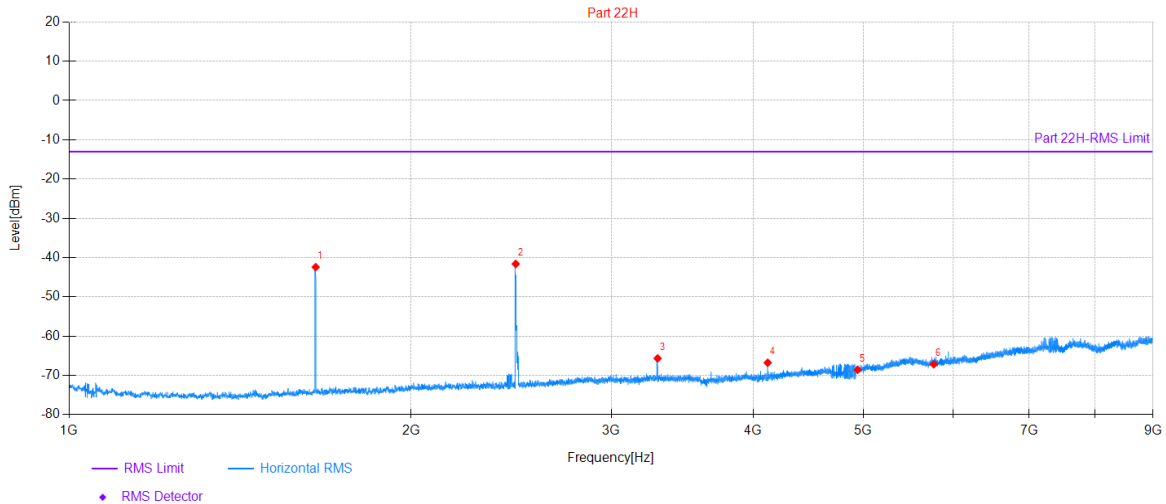
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## Field Strength of Spurious Radiation

Test Band = GSM 850\_

Test Channel = Low Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.4	77.36	-49.83	25.29	-42.43	-13.00	29.43	Horizontal
2	2472.6	75.44	-49.06	27.27	-41.61	-13.00	28.61	Horizontal
3	3296.8	49.61	-48.63	28.62	-65.66	-13.00	52.66	Horizontal
4	4121	47.14	-48.28	29.62	-66.78	-13.00	53.78	Horizontal
5	4945.2	43.40	-48.07	31.37	-68.57	-13.00	55.57	Horizontal
6	5769.4	43.00	-47.65	32.75	-67.16	-13.00	54.16	Horizontal



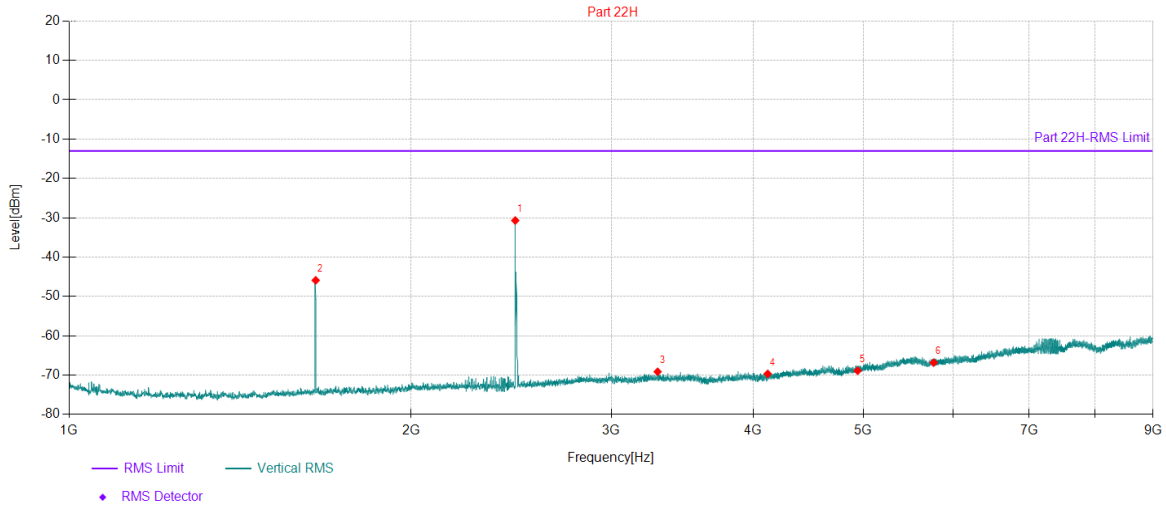
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Test Band = GSM 850\_  
Test Channel = Low Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2470.2222	86.38	-49.07	27.26	-30.69	-13.00	17.69	Vertical
2	1648.4	73.89	-49.83	25.29	-45.90	-13.00	32.90	Vertical
3	3296.8	46.13	-48.63	28.62	-69.14	-13.00	56.14	Vertical
4	4121	44.24	-48.28	29.62	-69.68	-13.00	56.68	Vertical
5	4945.2	43.10	-48.07	31.37	-68.87	-13.00	55.87	Vertical
6	5769.4	43.34	-47.65	32.75	-66.82	-13.00	53.82	Vertical

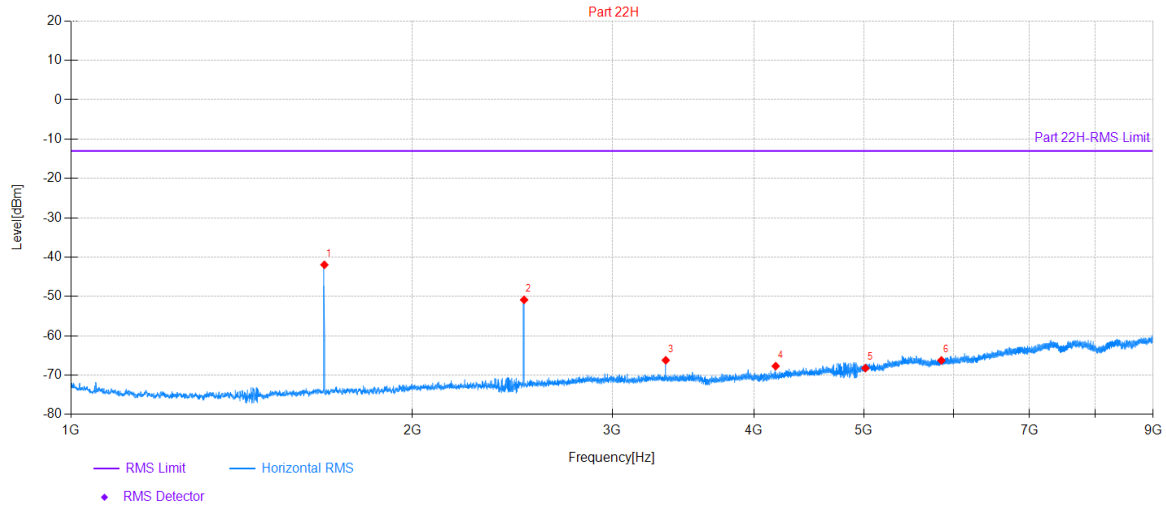


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**Test Band = GSM 850\_**  
**Test Channel = Mid Channel**



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.8	77.69	-49.78	25.39	-41.96	-13.00	28.96	Horizontal
2	2509.2	66.00	-48.93	27.32	-50.86	-13.00	37.86	Horizontal
3	3345.6	49.07	-48.66	28.64	-66.21	-13.00	53.21	Horizontal
4	4182	46.16	-48.34	29.73	-67.71	-13.00	54.71	Horizontal
5	5018.4	43.45	-47.95	31.54	-68.22	-13.00	55.22	Horizontal
6	5854.8	43.56	-47.33	32.77	-66.26	-13.00	53.26	Horizontal

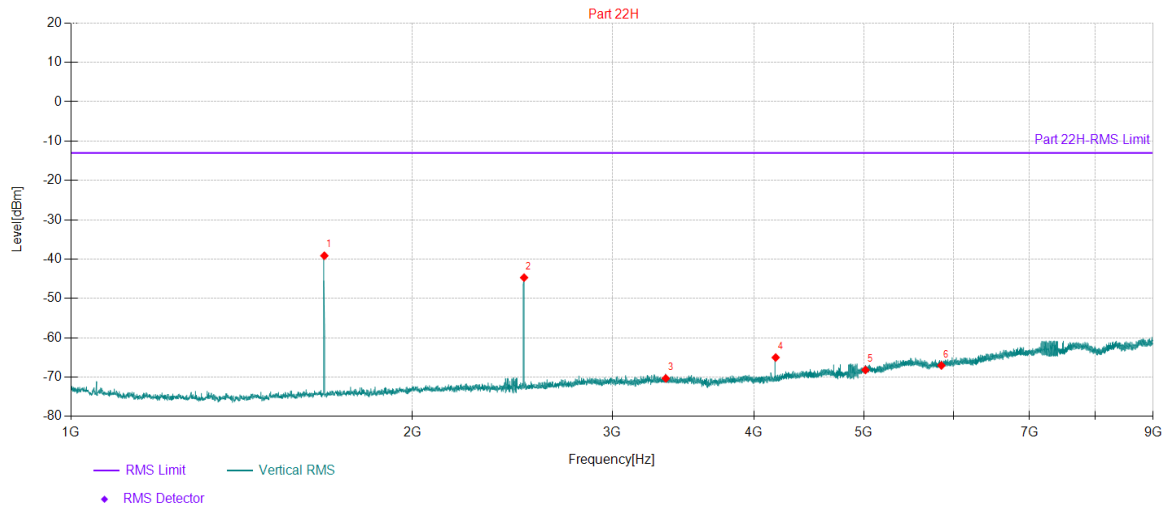


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**Test Band = GSM 850\_**  
**Test Channel = Mid Channel**



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.8	80.51	-49.78	25.39	-39.14	-13.00	26.14	Vertical
2	2509.2	72.16	-48.93	27.32	-44.70	-13.00	31.70	Vertical
3	3345.6	44.95	-48.66	28.64	-70.33	-13.00	57.33	Vertical
4	4182	48.86	-48.34	29.73	-65.01	-13.00	52.01	Vertical
5	5018.4	43.49	-47.95	31.54	-68.18	-13.00	55.18	Vertical
6	5854.8	42.78	-47.33	32.77	-67.04	-13.00	54.04	Vertical

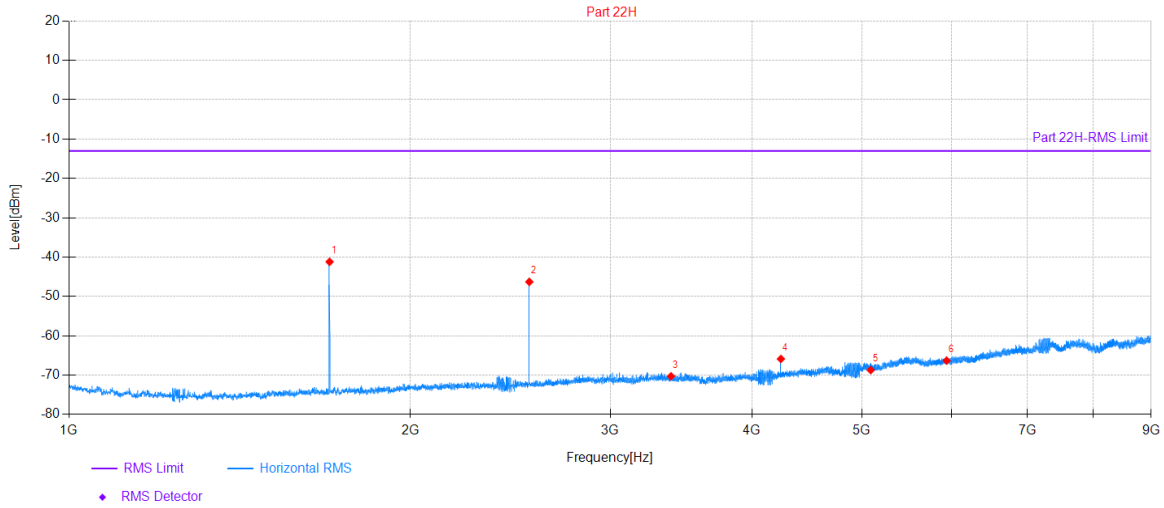


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Test Band = GSM 850\_  
Test Channel = High Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.6	78.29	-49.72	25.49	-41.20	-13.00	28.20	Horizontal
2	2546.4	70.58	-49.03	27.41	-46.29	-13.00	33.29	Horizontal
3	3395.2	45.00	-48.69	28.66	-70.29	-13.00	57.29	Horizontal
4	4244	47.76	-48.21	29.84	-65.88	-13.00	52.88	Horizontal
5	5092.8	42.75	-47.92	31.72	-68.71	-13.00	55.71	Horizontal
6	5941.6	43.42	-47.26	32.79	-66.31	-13.00	53.31	Horizontal

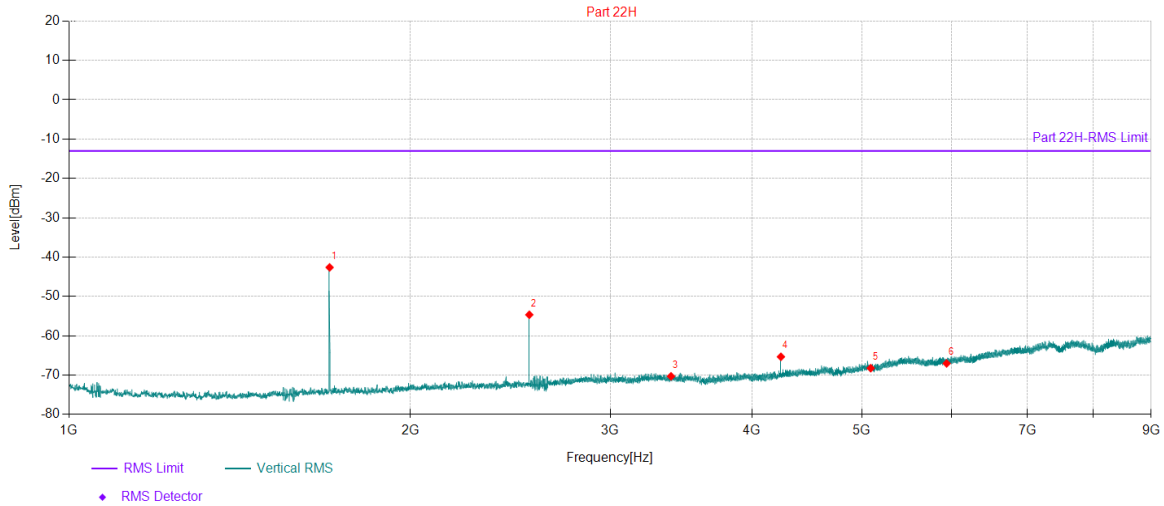


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Test Band = GSM 850\_  
Test Channel = High Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.6	76.87	-49.72	25.49	-42.62	-13.00	29.62	Vertical
2	2546.4	62.22	-49.03	27.41	-54.65	-13.00	41.65	Vertical
3	3395.2	44.99	-48.69	28.66	-70.30	-13.00	57.30	Vertical
4	4244	48.31	-48.21	29.84	-65.33	-13.00	52.33	Vertical
5	5092.8	43.24	-47.92	31.72	-68.22	-13.00	55.22	Vertical
6	5941.6	42.70	-47.26	32.79	-67.03	-13.00	54.03	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) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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**Frequency Stability**  
GSM850

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	3.4	18.016	0.0219	-2.5 to 2.5	Pass	
			3.89	16.046	0.0195	-2.5 to 2.5	Pass	
			4.48	17.822	0.0216	-2.5 to 2.5	Pass	
		-30	3.89	20.114	0.0244	-2.5 to 2.5	Pass	
		-20	3.89	19.113	0.0232	-2.5 to 2.5	Pass	
		-10	3.89	23.730	0.0288	-2.5 to 2.5	Pass	
		0	3.89	20.405	0.0248	-2.5 to 2.5	Pass	
		10	3.89	23.343	0.0283	-2.5 to 2.5	Pass	
		30	3.89	23.310	0.0283	-2.5 to 2.5	Pass	
	40	3.89	21.276	0.0258	-2.5 to 2.5	Pass		
	50	3.89	22.374	0.0271	-2.5 to 2.5	Pass		
	836.6	20	3.4	23.698	0.0283	-2.5 to 2.5	Pass	
			3.89	19.888	0.0238	-2.5 to 2.5	Pass	
			4.48	22.245	0.0266	-2.5 to 2.5	Pass	
		-30	3.89	21.632	0.0259	-2.5 to 2.5	Pass	
		-20	3.89	21.535	0.0257	-2.5 to 2.5	Pass	
		-10	3.89	21.083	0.0252	-2.5 to 2.5	Pass	
		0	3.89	21.438	0.0256	-2.5 to 2.5	Pass	
		10	3.89	20.728	0.0248	-2.5 to 2.5	Pass	
		30	3.89	23.666	0.0283	-2.5 to 2.5	Pass	
	40	3.89	20.986	0.0251	-2.5 to 2.5	Pass		
	50	3.89	24.989	0.0299	-2.5 to 2.5	Pass		
	848.8	20	3.4	22.213	0.0262	-2.5 to 2.5	Pass	
			3.89	22.536	0.0266	-2.5 to 2.5	Pass	
			4.48	24.860	0.0293	-2.5 to 2.5	Pass	
		-30	3.89	24.892	0.0293	-2.5 to 2.5	Pass	
		-20	3.89	25.700	0.0303	-2.5 to 2.5	Pass	
		-10	3.89	21.212	0.0250	-2.5 to 2.5	Pass	
		0	3.89	28.089	0.0331	-2.5 to 2.5	Pass	
		10	3.89	26.830	0.0316	-2.5 to 2.5	Pass	
		30	3.89	23.149	0.0273	-2.5 to 2.5	Pass	
	40	3.89	24.763	0.0292	-2.5 to 2.5	Pass		
	50	3.89	26.216	0.0309	-2.5 to 2.5	Pass		
	EGPRS	824.2	20	3.4	26.959	0.0327	-2.5 to 2.5	Pass
				3.89	29.057	0.0353	-2.5 to 2.5	Pass
				4.48	29.864	0.0362	-2.5 to 2.5	Pass
			-30	3.89	29.542	0.0358	-2.5 to 2.5	Pass
			-20	3.89	28.993	0.0352	-2.5 to 2.5	Pass
			-10	3.89	30.542	0.0371	-2.5 to 2.5	Pass
	0	3.89	29.606	0.0359	-2.5 to 2.5	Pass		



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		10	3.89	31.802	0.0386	-2.5 to 2.5	Pass
		30	3.89	32.124	0.0390	-2.5 to 2.5	Pass
		40	3.89	31.188	0.0378	-2.5 to 2.5	Pass
		50	3.89	32.576	0.0395	-2.5 to 2.5	Pass
	836.6	20	3.4	32.124	0.0384	-2.5 to 2.5	Pass
			3.89	31.124	0.0372	-2.5 to 2.5	Pass
			4.48	31.220	0.0373	-2.5 to 2.5	Pass
		-30	3.89	32.512	0.0389	-2.5 to 2.5	Pass
		-20	3.89	32.221	0.0385	-2.5 to 2.5	Pass
		-10	3.89	33.093	0.0396	-2.5 to 2.5	Pass
		0	3.89	32.480	0.0388	-2.5 to 2.5	Pass
		10	3.89	34.158	0.0408	-2.5 to 2.5	Pass
		30	3.89	32.286	0.0386	-2.5 to 2.5	Pass
		40	3.89	34.158	0.0408	-2.5 to 2.5	Pass
		50	3.89	31.995	0.0382	-2.5 to 2.5	Pass
		848.8	20	3.4	31.285	0.0369	-2.5 to 2.5
	3.89			31.672	0.0373	-2.5 to 2.5	Pass
	4.48			30.478	0.0359	-2.5 to 2.5	Pass
	-30		3.89	32.286	0.0380	-2.5 to 2.5	Pass
	-20		3.89	32.060	0.0378	-2.5 to 2.5	Pass
	-10		3.89	30.123	0.0355	-2.5 to 2.5	Pass
	0		3.89	31.705	0.0374	-2.5 to 2.5	Pass
	10		3.89	29.154	0.0343	-2.5 to 2.5	Pass
	30		3.89	31.414	0.0370	-2.5 to 2.5	Pass
40	3.89		30.898	0.0364	-2.5 to 2.5	Pass	
50	3.89		30.542	0.0360	-2.5 to 2.5	Pass	

---End of Attachment---



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