

Report No.: SEWM2311000471RG01

Rev.: 01

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Appendix B.1

GSM 850



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Wireless Laboratory

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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	32.73	-1.60	28.98	<=38.45	Pass
			836.6	32.83	-1.60	29.08	<=38.45	Pass
			848.8	32.72	-1.60	28.37	<=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	19.1	<=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	20.9	<=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	9.85	<=13	Pass
			836.6	9.68	<=13	Pass
			848.8	9.25	<=13	Pass
	EGPRS	4 TX Slots	824.2	6.67	<=13	Pass
			836.6	8.55	<=13	Pass
			848.8	8.85	<=13	Pass



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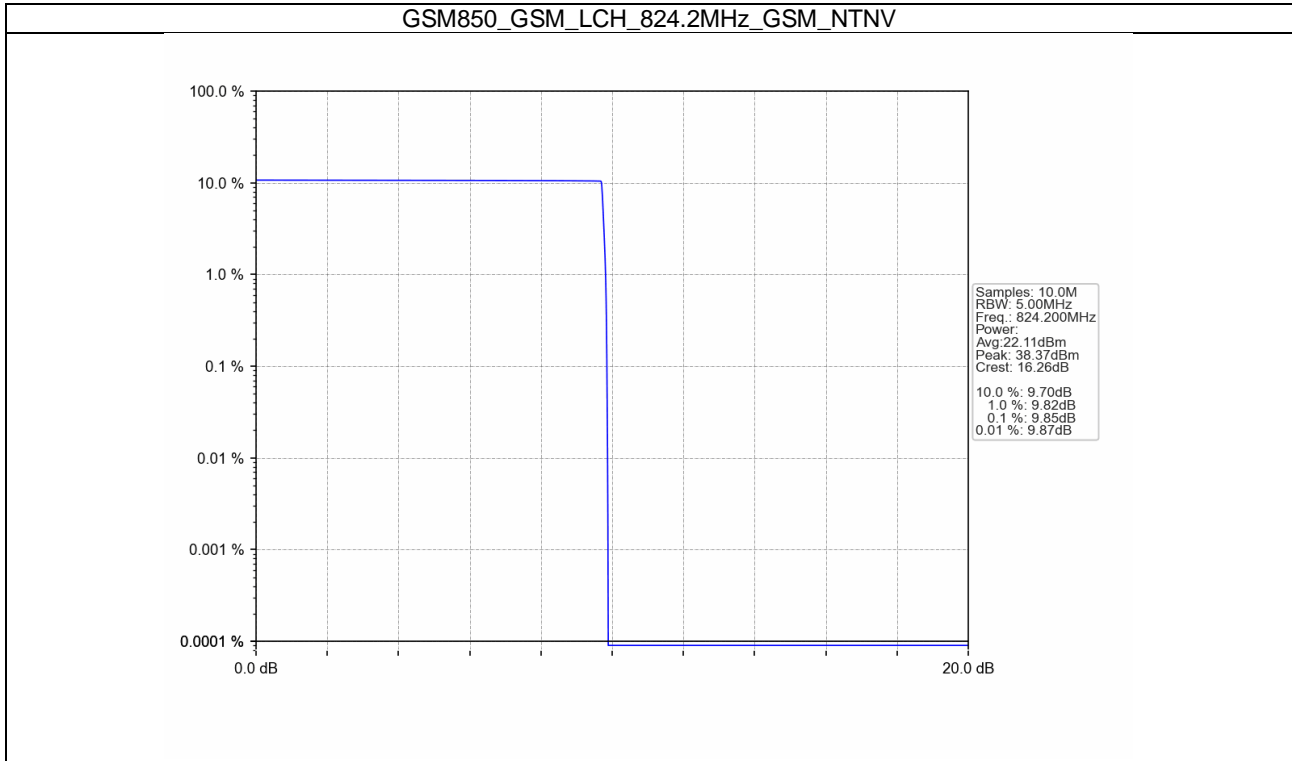
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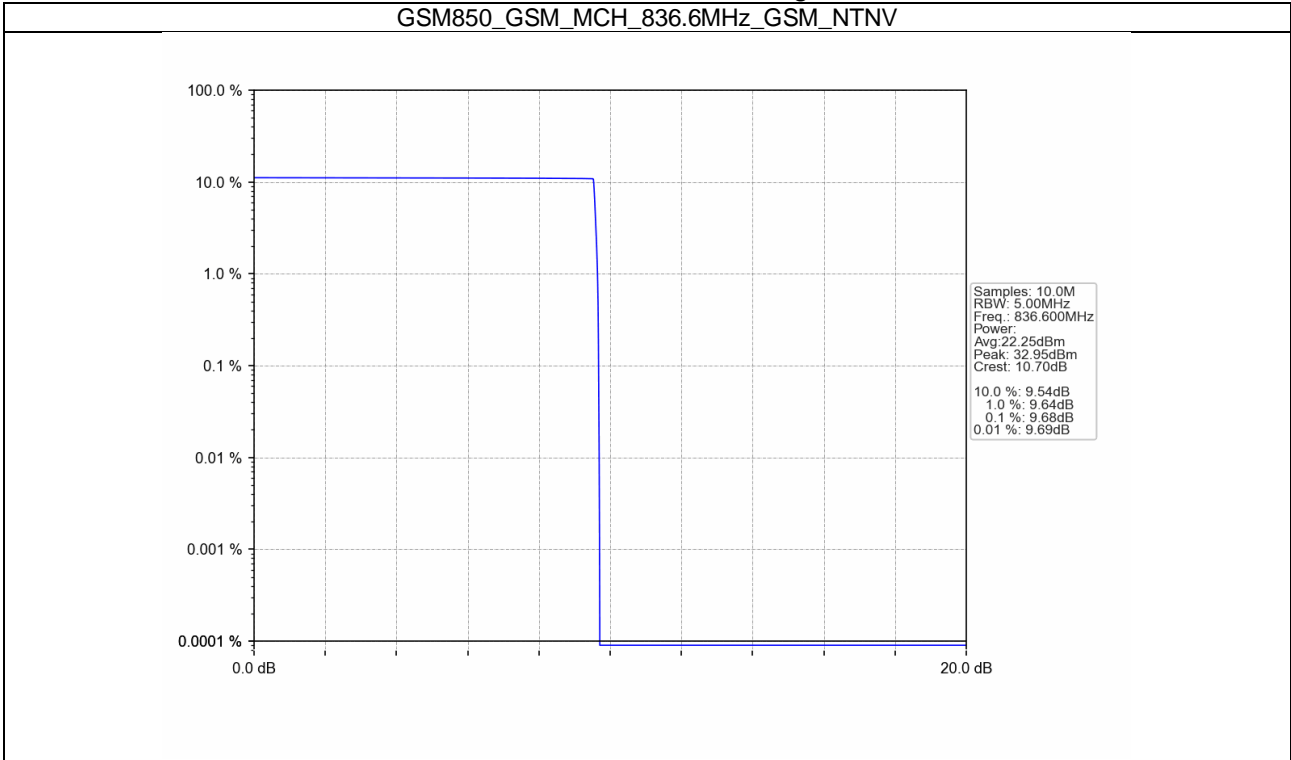
Test Graph



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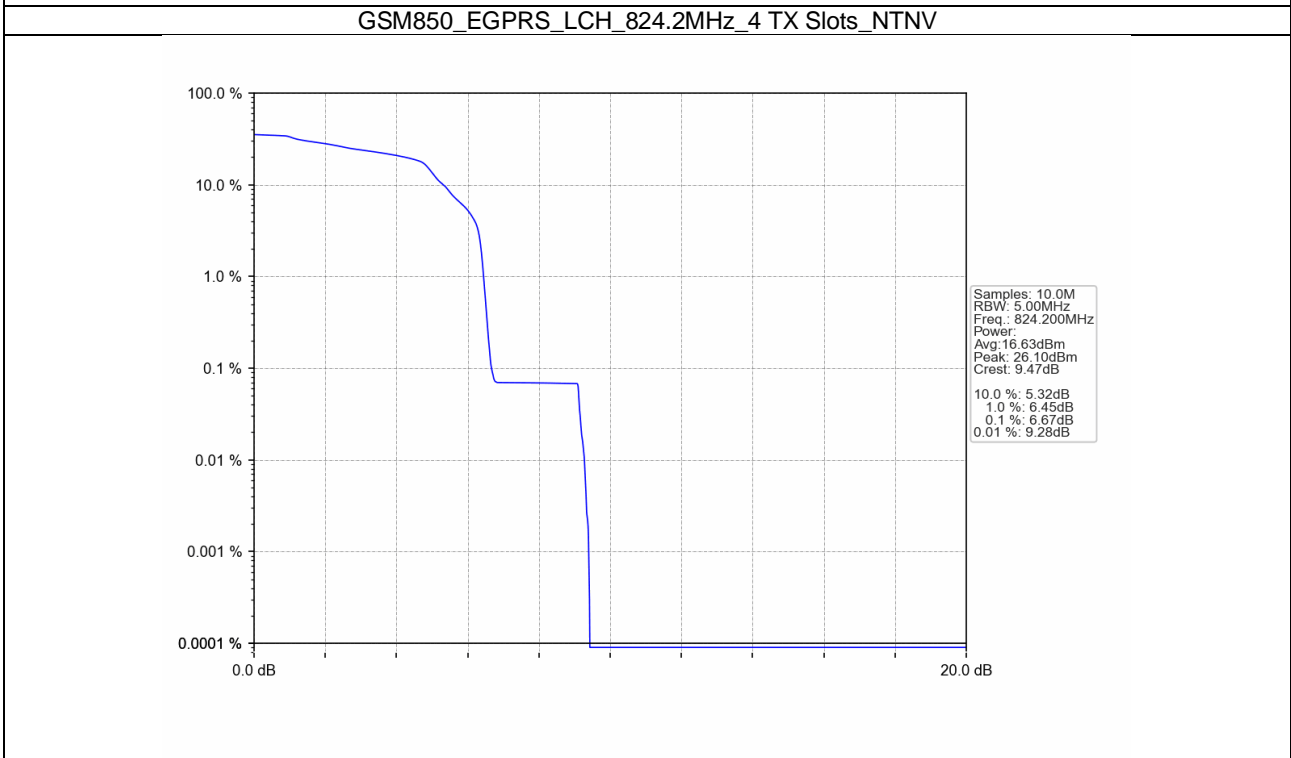
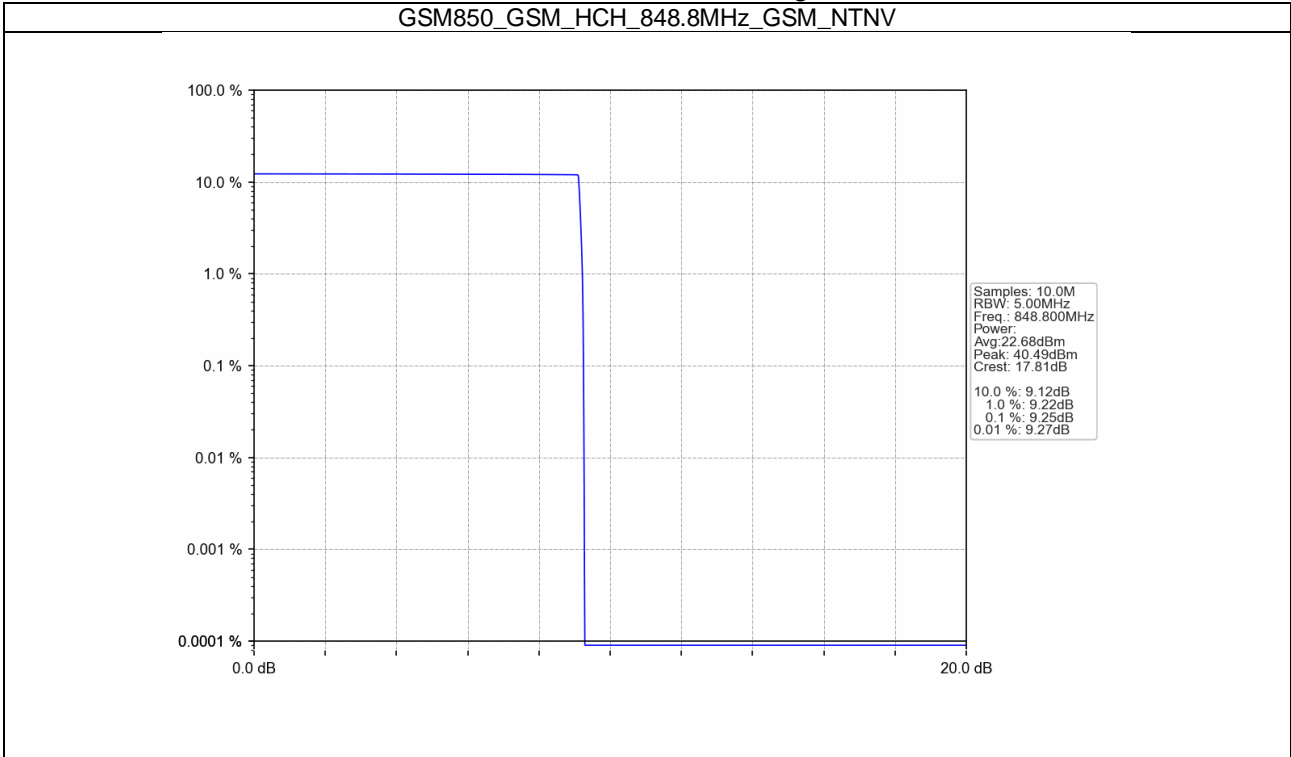
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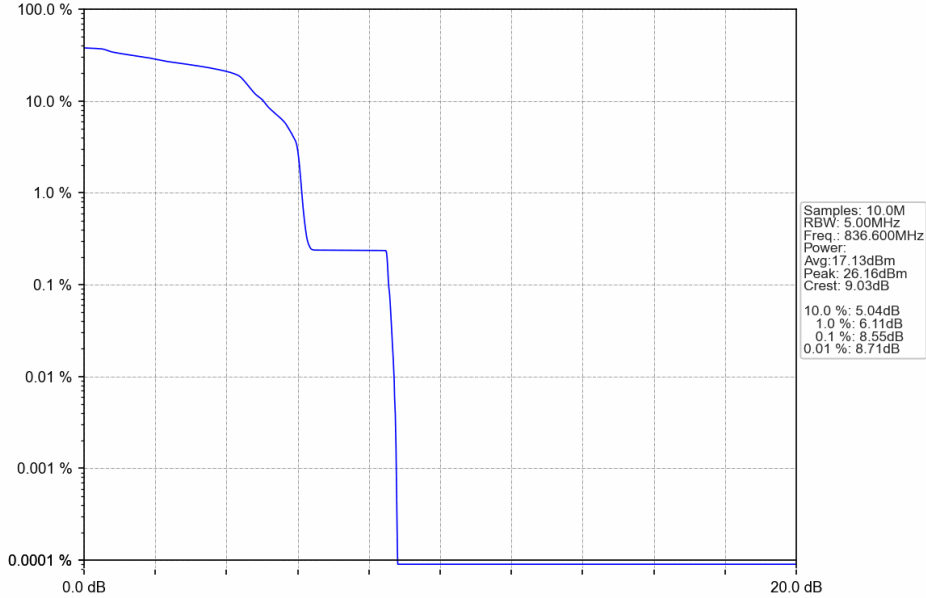


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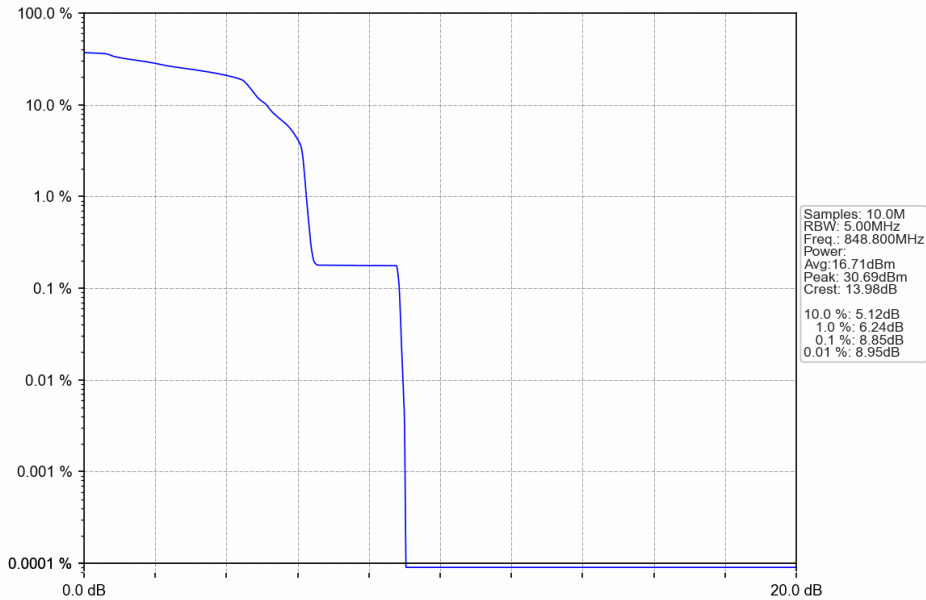
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GSM850_EGPRS_MCH_836.6MHz_4 TX Slots_NTNV



GSM850_EGPRS_HCH_848.8MHz_4 TX Slots_NTNV



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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	0.244	/	Pass
			836.6	0.242	/	Pass
			848.8	0.247	/	Pass
	EGPRS	1 TX Slot	824.2	0.251	/	Pass
			836.6	0.240	/	Pass
			848.8	0.239	/	Pass



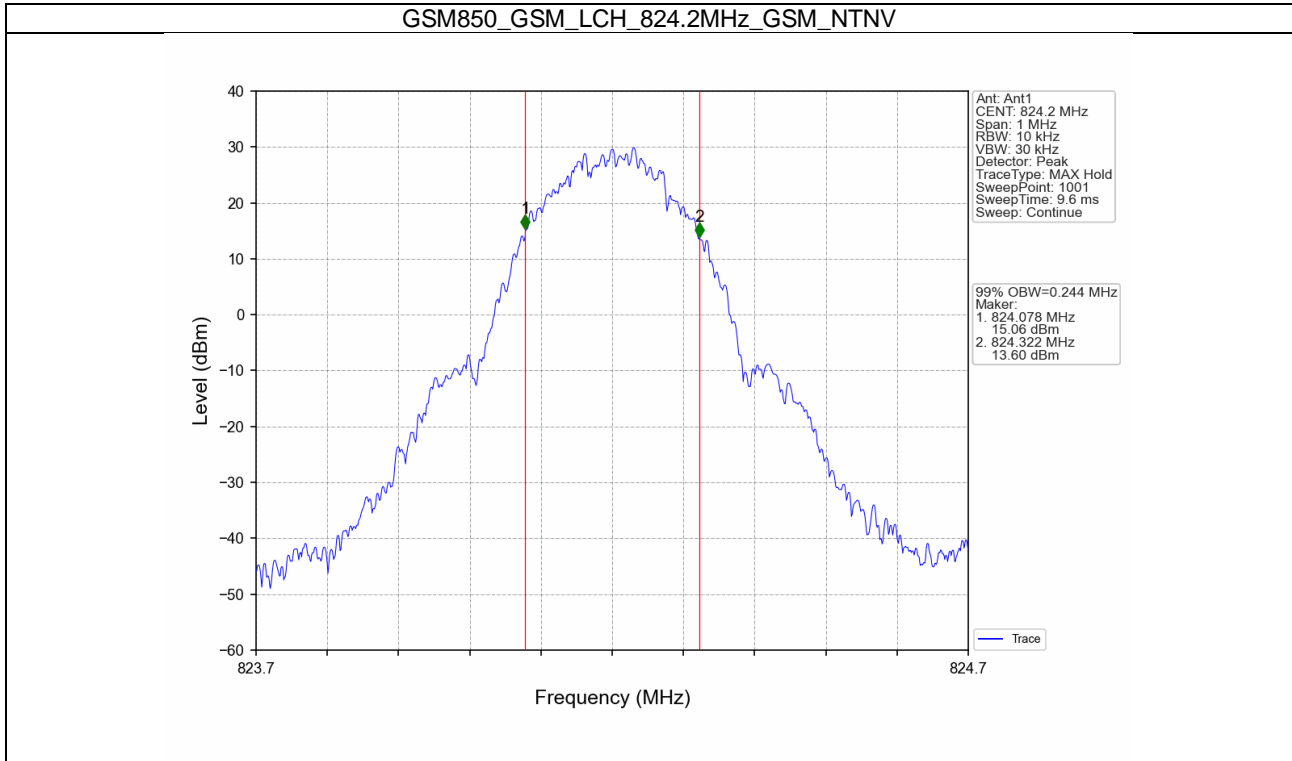
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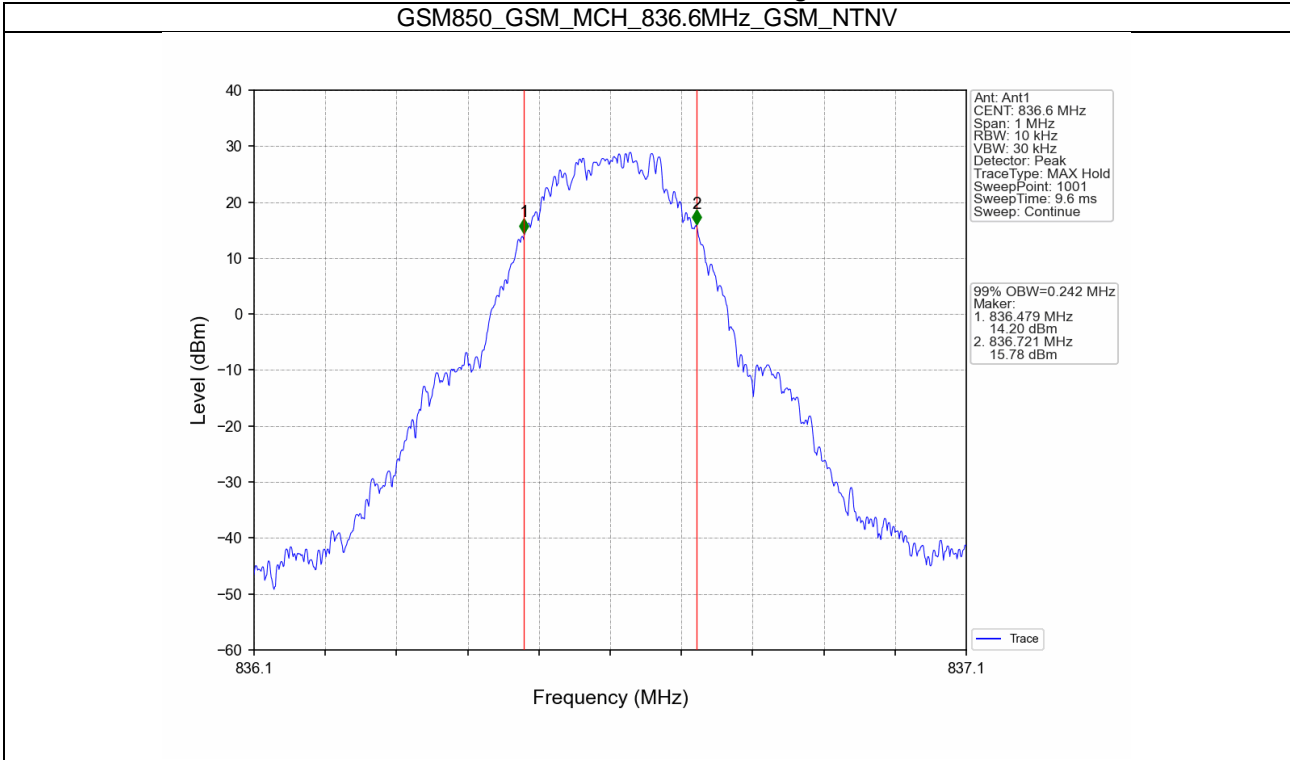
Test Graph



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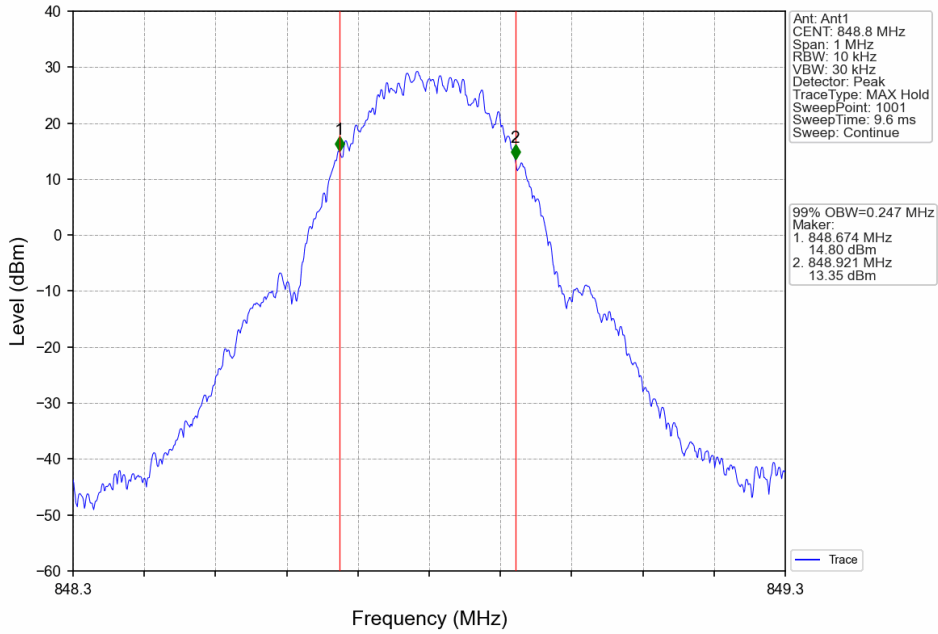


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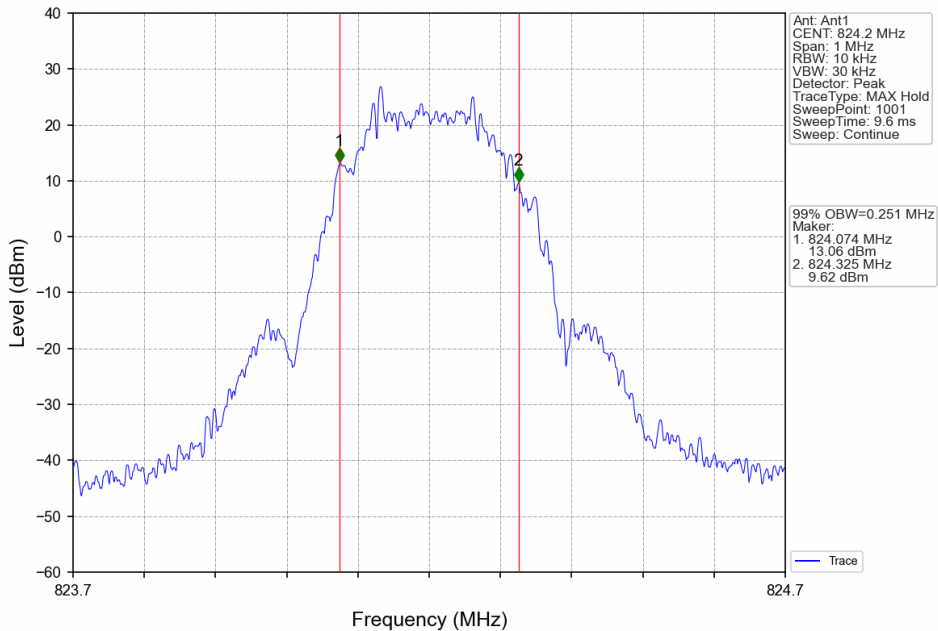
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GSM850_GSM_HCH_848.8MHz_GSM_NTNV



GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



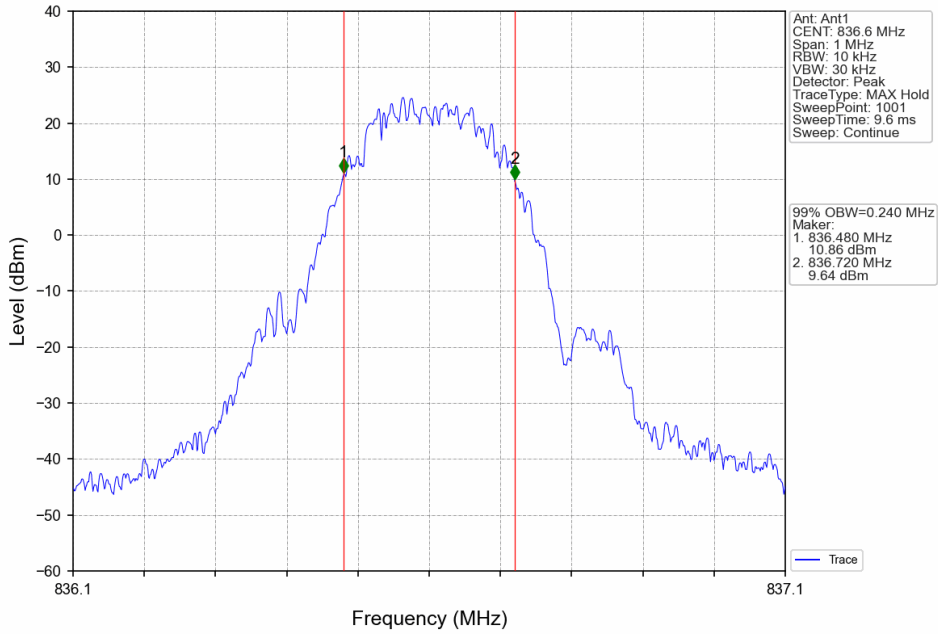
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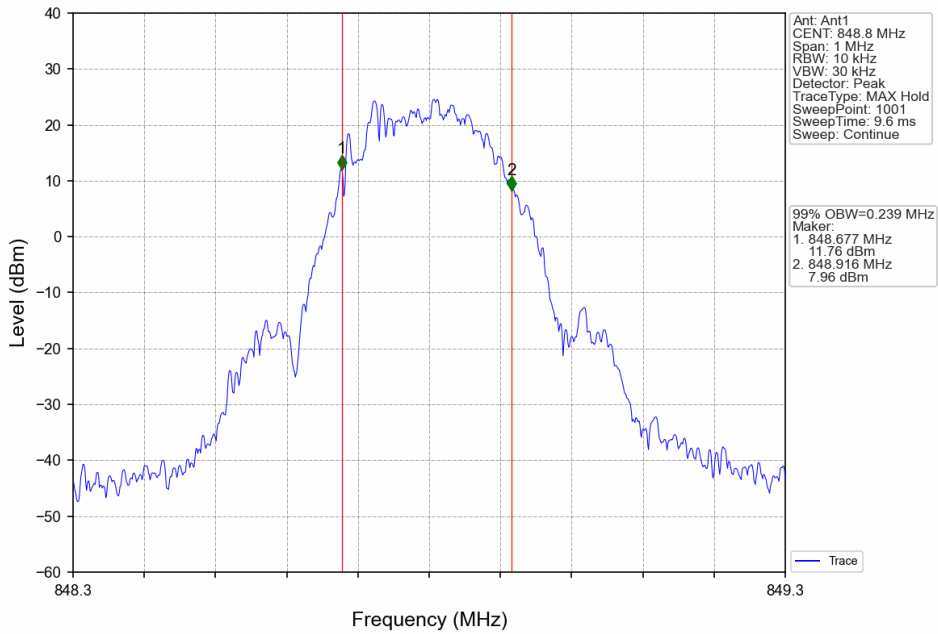
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GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV



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GSM850_XDB

Test Result

Band: GSM850						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	0.319	/	Pass
			836.6	0.321	/	Pass
			848.8	0.319	/	Pass
	EGPRS	1 TX Slot	824.2	0.304	/	Pass
			836.6	0.310	/	Pass
			848.8	0.303	/	Pass

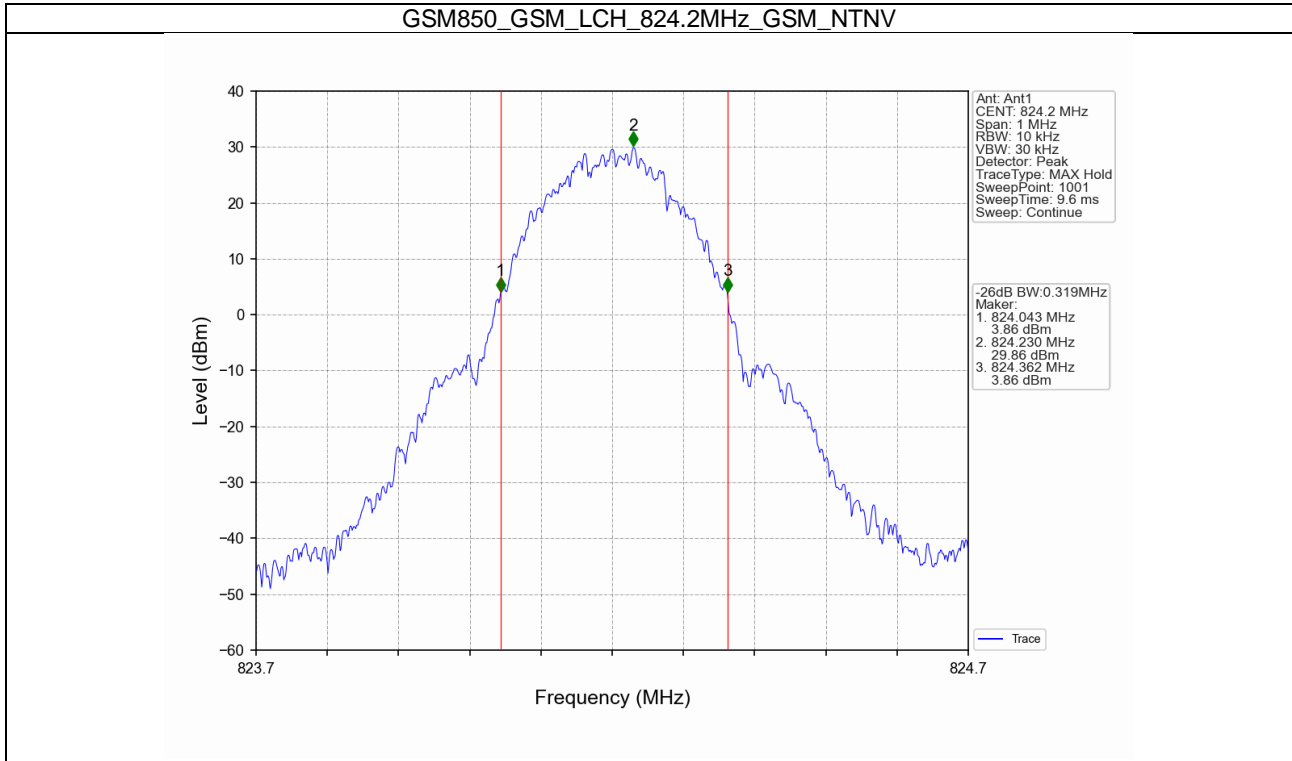


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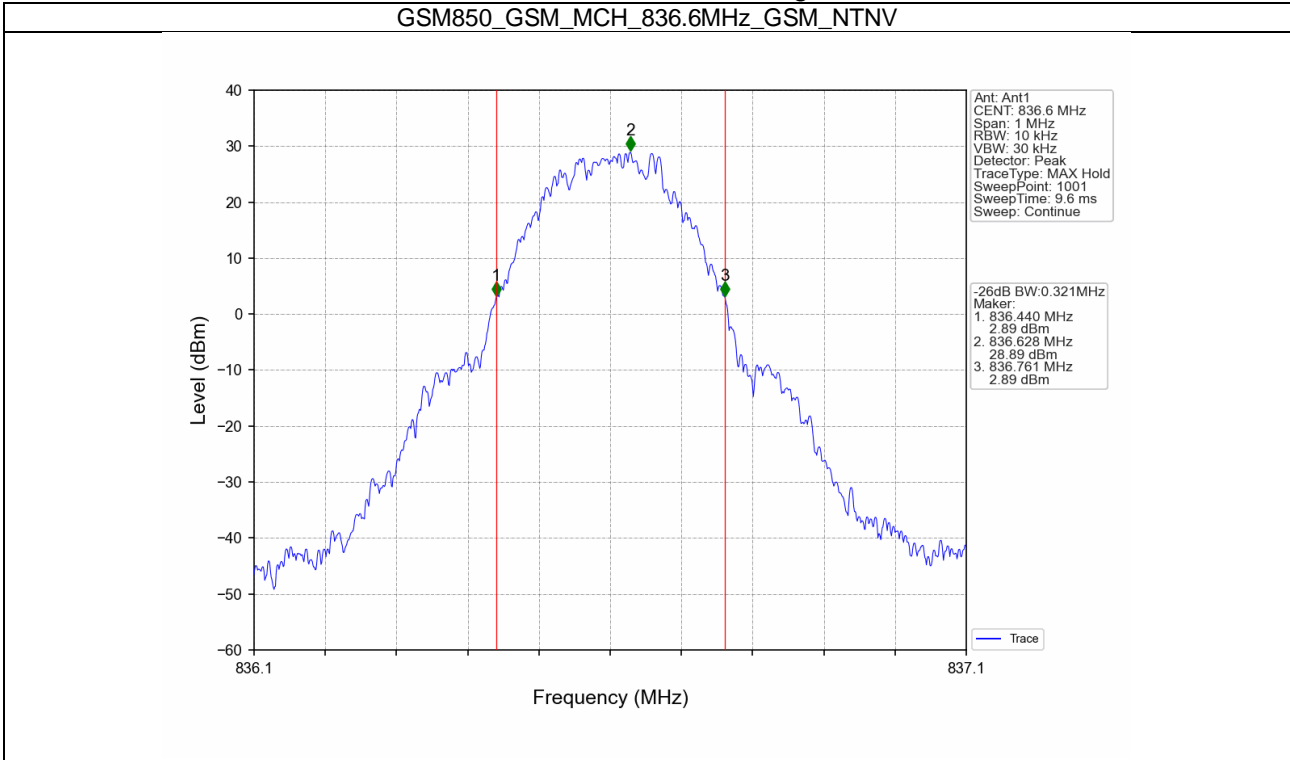
Test Graph



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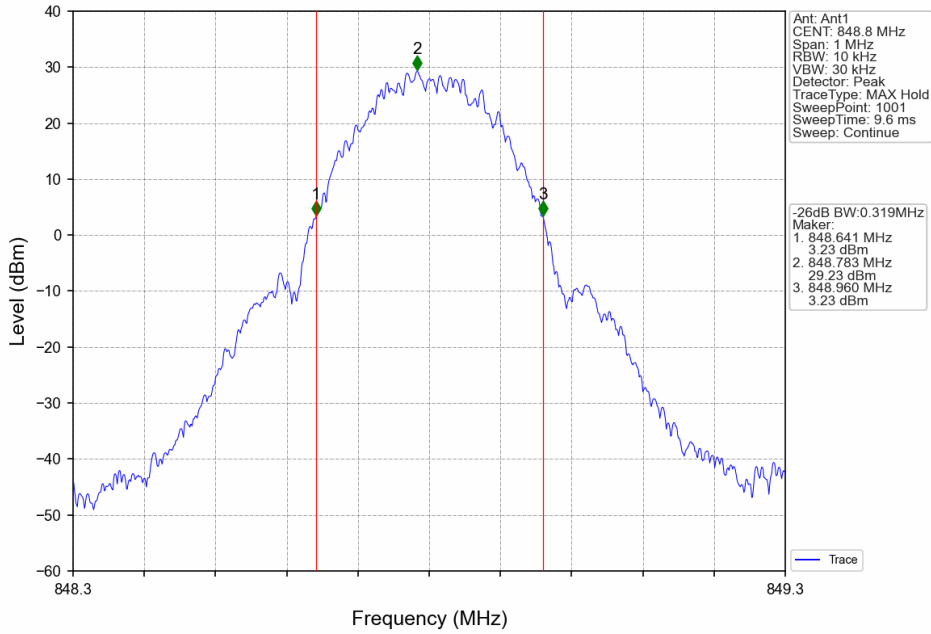


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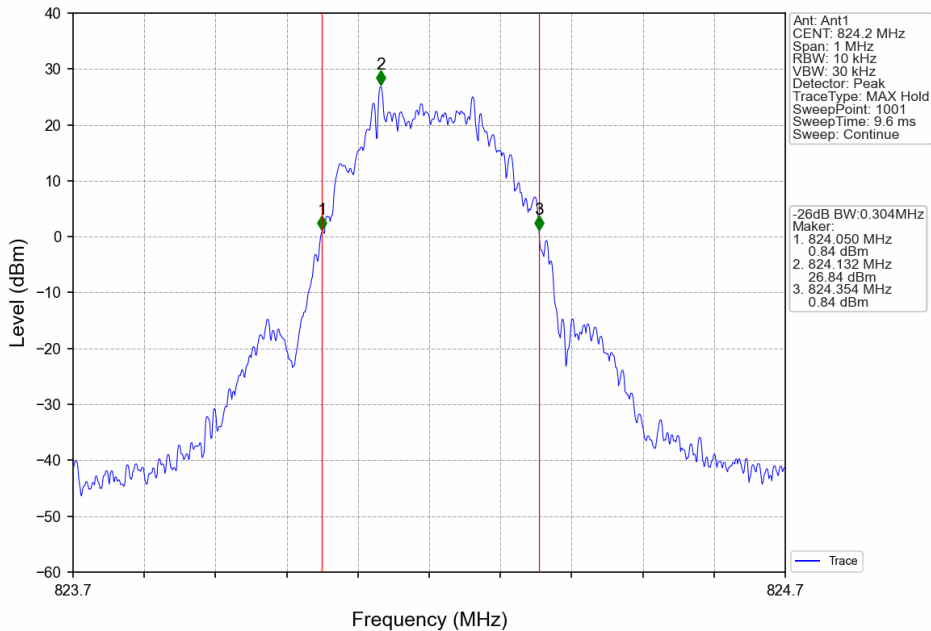
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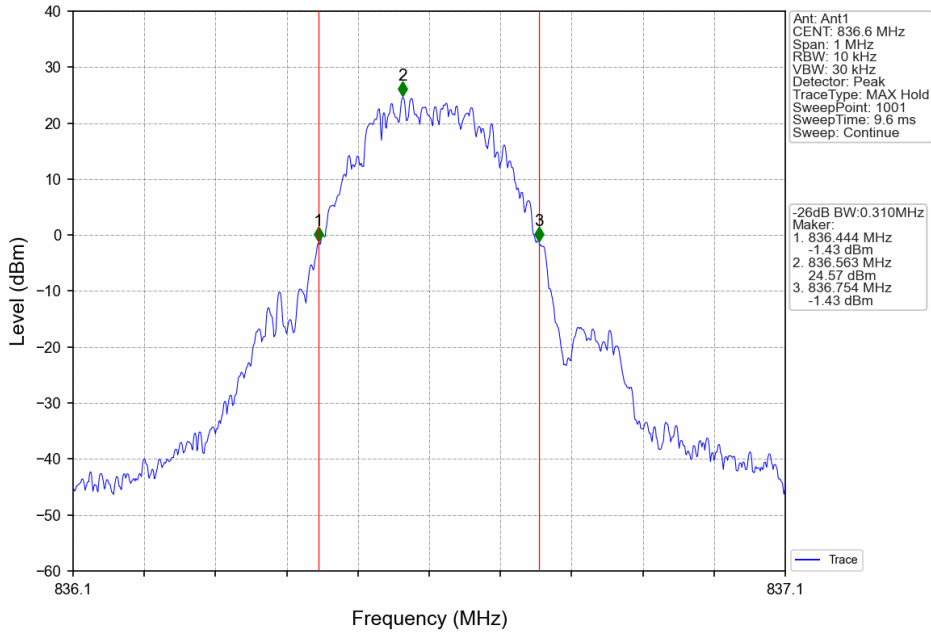
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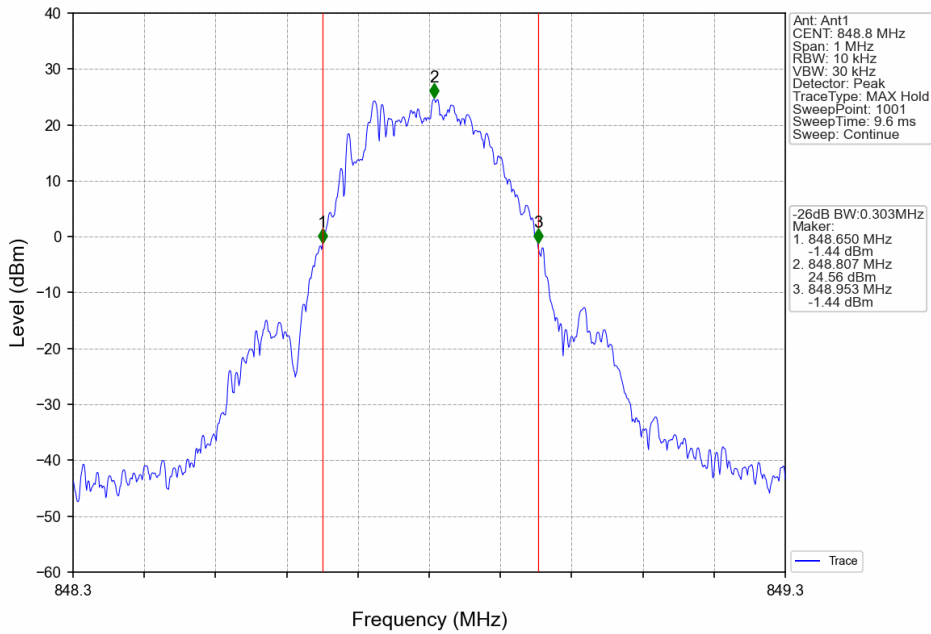
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Report No.: SEWM2311000471RG01

Rev.: 01

Page: 18 of 29

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	

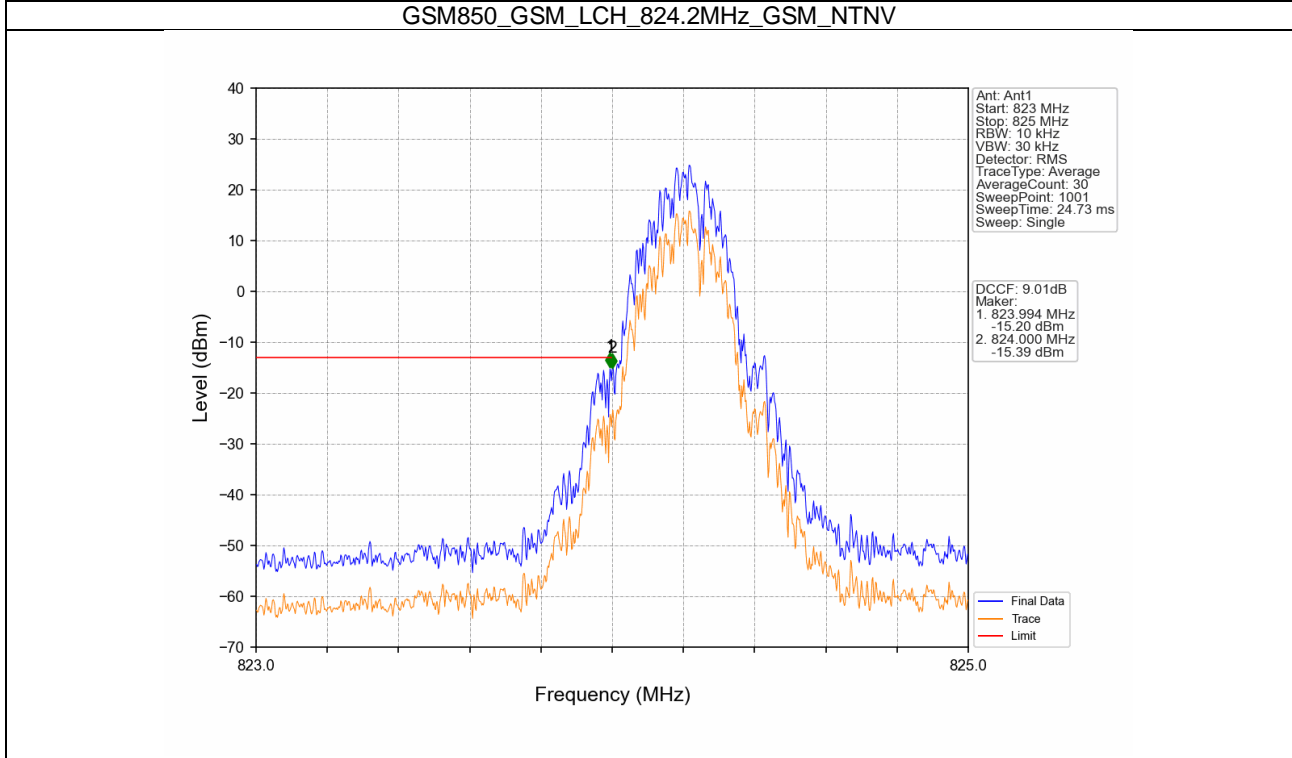


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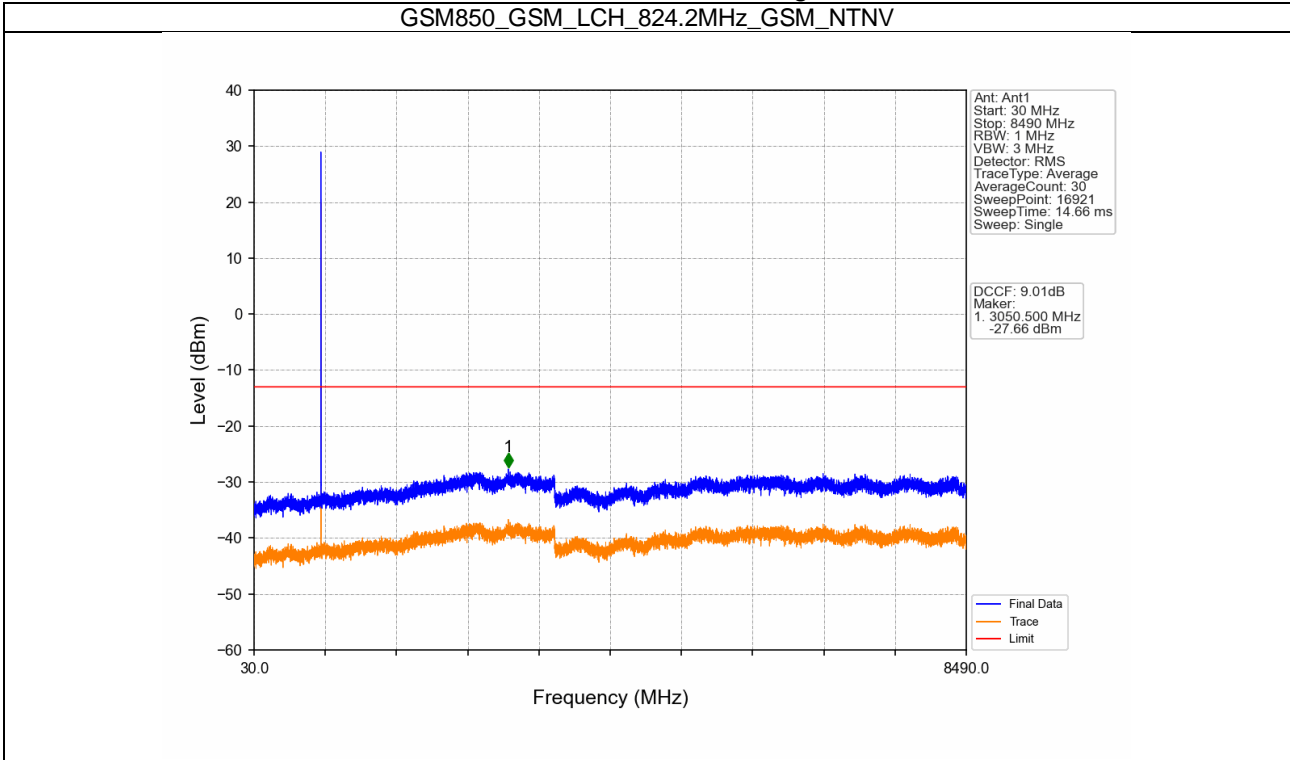
Test Graph



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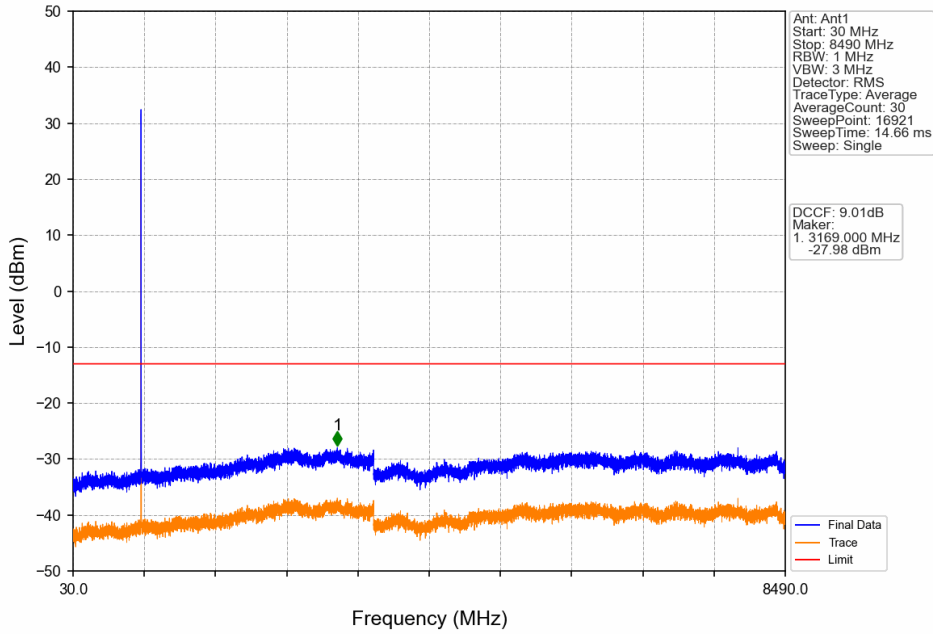


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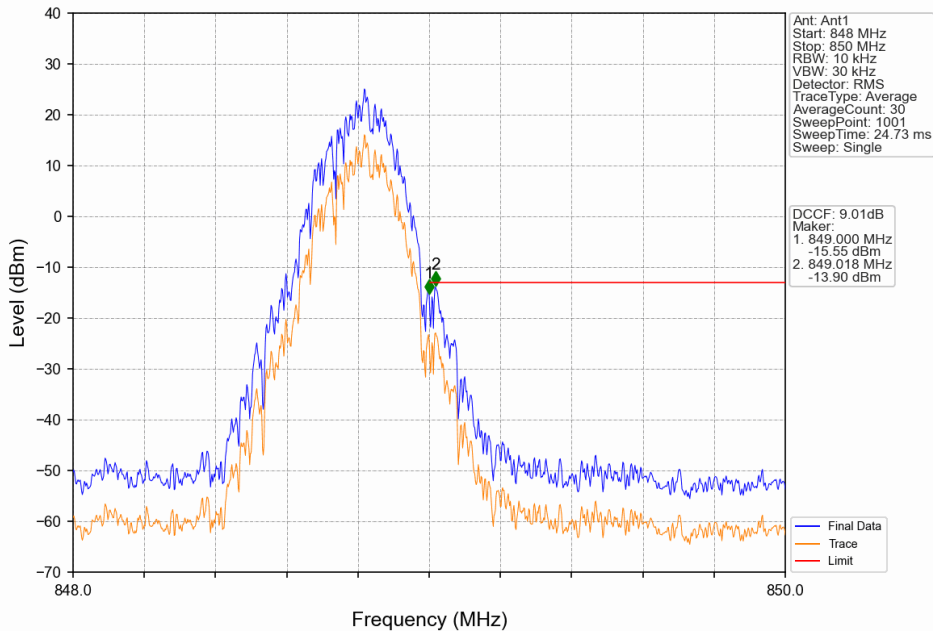
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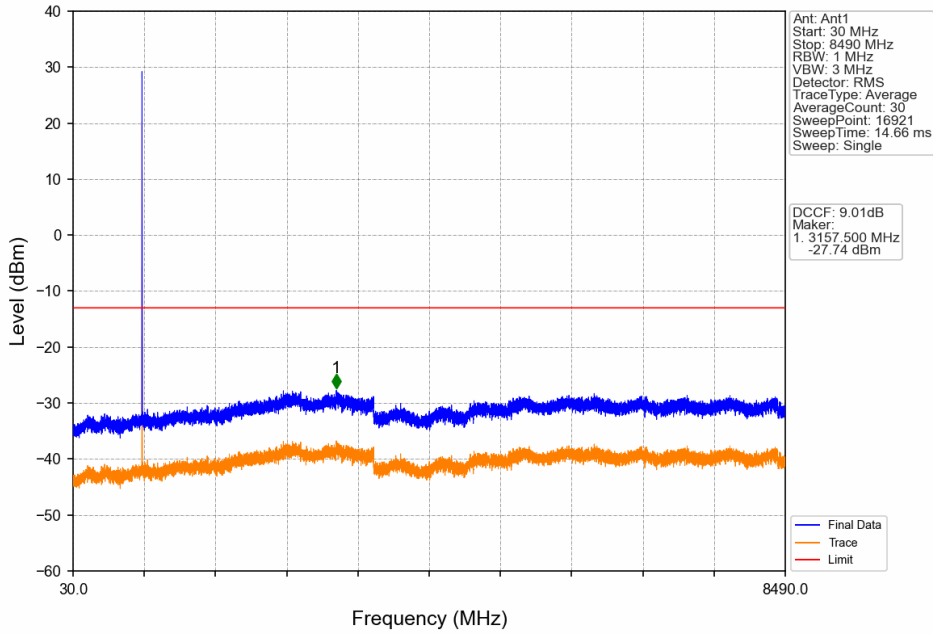
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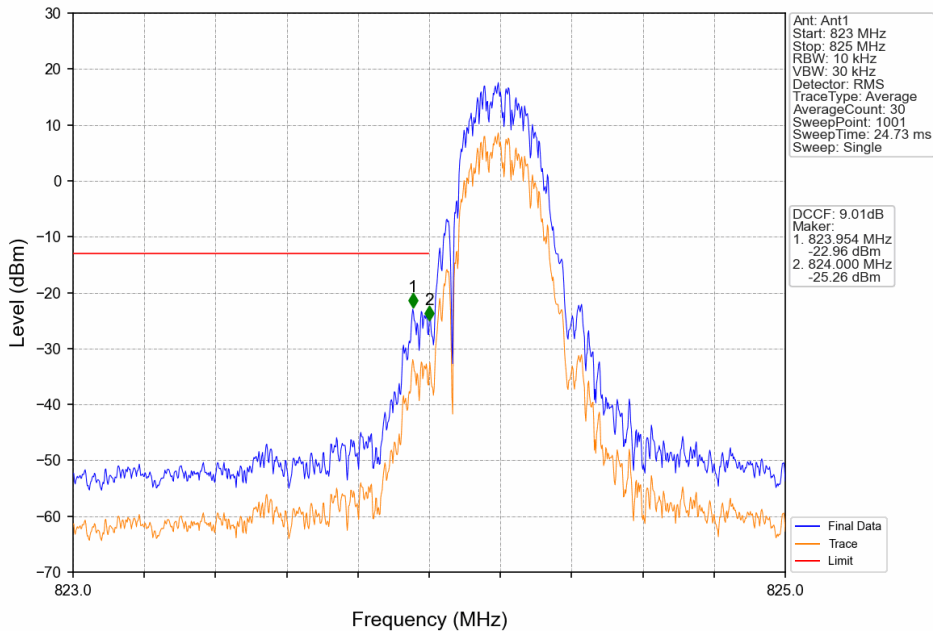
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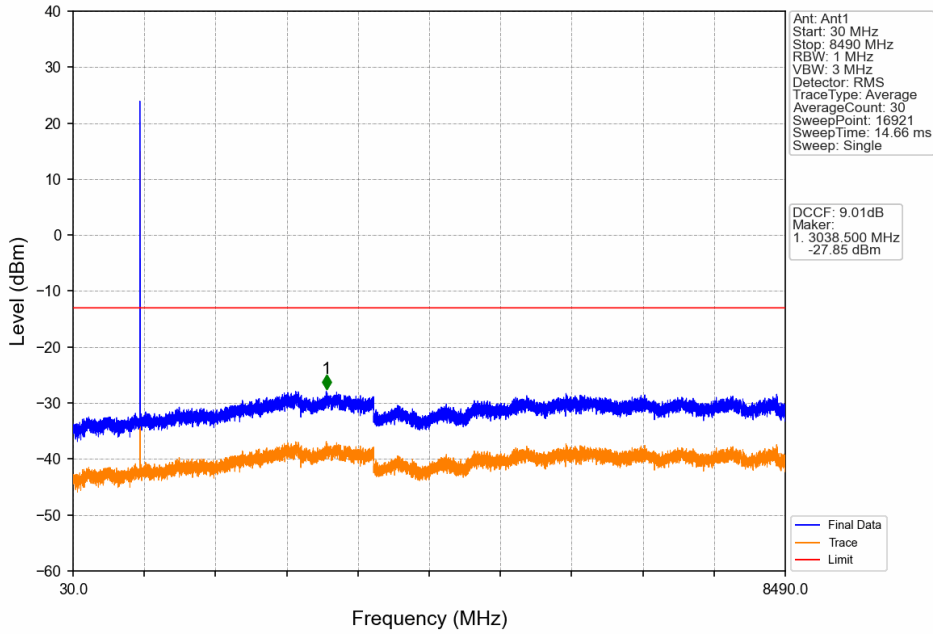
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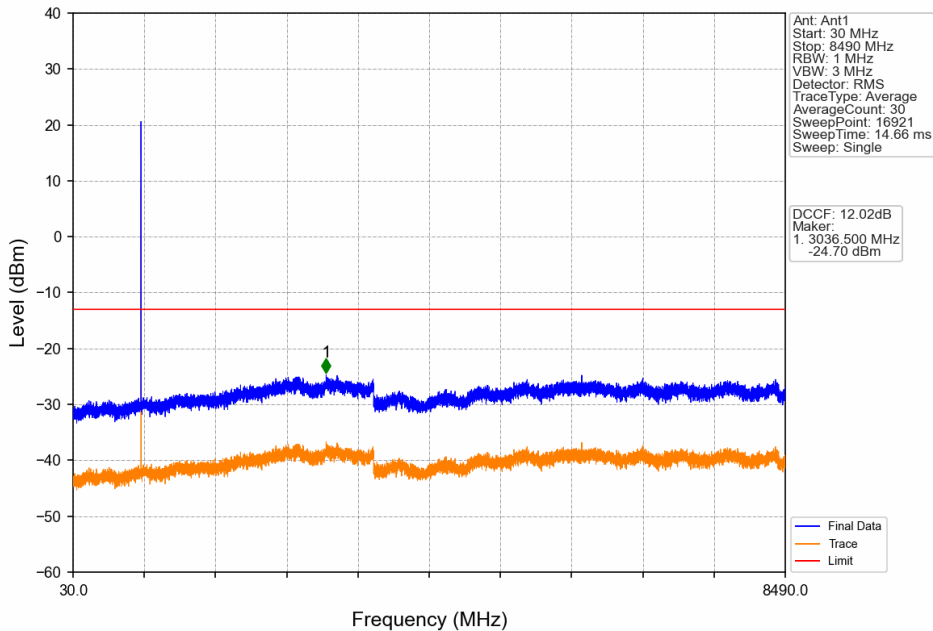
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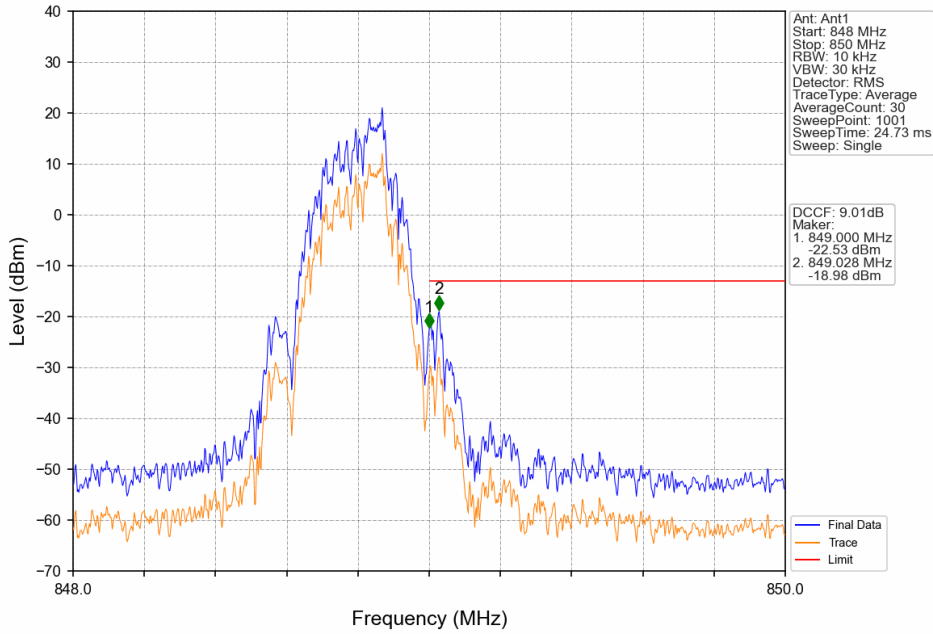
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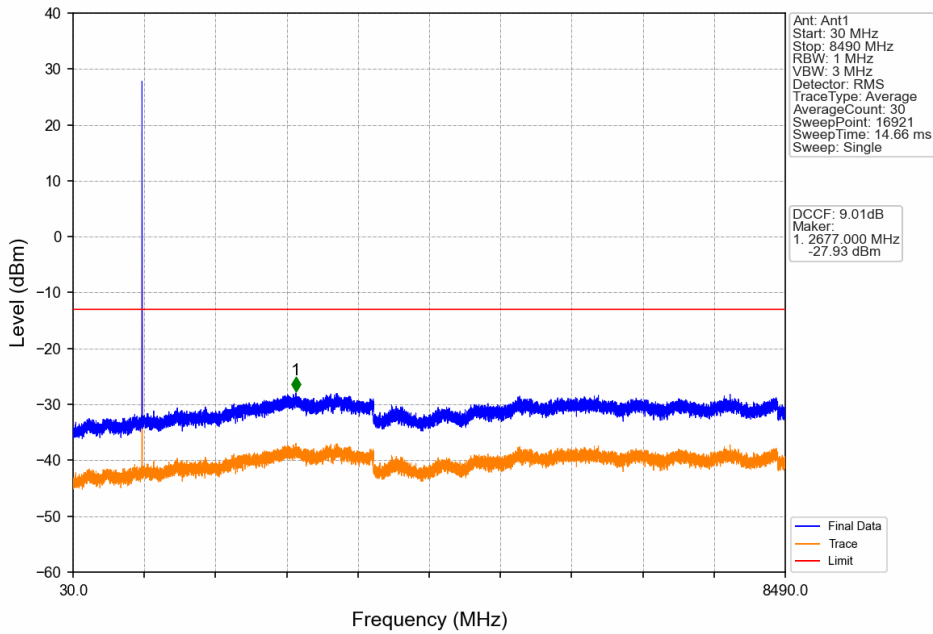
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Field Strength of Spurious Radiation

Test Band = GSM850

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	63.75	-46.66	24.60	-53.57	-13.00	40.57	Horizontal
2	2472.6	55.86	-45.04	27.34	-57.10	-13.00	44.10	Horizontal
3	3296.8	32.32	-43.58	29.56	-76.96	-13.00	63.96	Horizontal
4	4121	36.57	-42.37	31.49	-69.56	-13.00	56.56	Horizontal
5	4945.2	31.74	-41.38	33.08	-71.82	-13.00	58.82	Horizontal
6	5769.4	32.27	-40.28	34.02	-69.25	-13.00	56.25	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.4	63.32	-46.66	24.60	-54.00	-13.00	41.00	Vertical
2	2472.6	57.25	-45.04	27.34	-55.71	-13.00	42.71	Vertical
3	3296.8	33.42	-43.58	29.56	-75.86	-13.00	62.86	Vertical
4	4121	42.84	-42.37	31.49	-63.29	-13.00	50.29	Vertical
5	4945.2	32.00	-41.38	33.08	-71.56	-13.00	58.56	Vertical
6	5769.4	31.86	-40.28	34.02	-69.66	-13.00	56.66	Vertical



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Test Band = GSM850

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	67.69	-46.60	24.60	-49.57	-13.00	36.57	Horizontal
2	2509.2	56.34	-44.95	27.44	-56.43	-13.00	43.43	Horizontal
3	3345.6	32.21	-43.54	29.57	-77.02	-13.00	64.02	Horizontal
4	4182	34.85	-42.36	31.59	-71.18	-13.00	58.18	Horizontal
5	5018.4	32.59	-41.26	33.20	-70.74	-13.00	57.74	Horizontal
6	5854.8	32.94	-40.13	34.31	-68.14	-13.00	55.14	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.8	62.89	-46.60	24.60	-54.37	-13.00	41.37	Vertical
2	2509.2	58.64	-44.95	27.44	-54.13	-13.00	41.13	Vertical
3	3345.6	33.22	-43.54	29.57	-76.01	-13.00	63.01	Vertical
4	4182	42.81	-42.36	31.59	-63.22	-13.00	50.22	Vertical
5	5018.4	32.97	-41.26	33.20	-70.36	-13.00	57.36	Vertical
6	5854.8	32.21	-40.13	34.31	-68.87	-13.00	55.87	Vertical



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 t (86-512) 62992980 sgs.china@sgs.com

Test Band = GSM850
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	67.05	-46.54	24.60	-50.15	-13.00	37.15	Horizontal
2	2546.4	53.98	-44.95	27.60	-58.64	-13.00	45.64	Horizontal
3	3395.2	33.48	-43.50	29.58	-75.70	-13.00	62.70	Horizontal
4	4244	32.42	-42.31	31.69	-73.46	-13.00	60.46	Horizontal
5	5092.8	33.44	-41.28	33.18	-69.92	-13.00	56.92	Horizontal
6	5941.6	32.69	-40.12	34.60	-68.09	-13.00	55.09	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.6	65.43	-46.54	24.60	-51.77	-13.00	38.77	Vertical
2	2546.4	63.34	-44.95	27.60	-49.28	-13.00	36.28	Vertical
3	3395.2	32.90	-43.50	29.58	-76.28	-13.00	63.28	Vertical
4	4244	33.77	-42.31	31.69	-72.11	-13.00	59.11	Vertical
5	5092.8	33.42	-41.28	33.18	-69.94	-13.00	56.94	Vertical
6	5941.6	32.82	-40.12	34.60	-67.96	-13.00	54.96	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	26.636	0.0323	-2.5 to 2.5	Pass	
			3.89	27.895	0.0338	-2.5 to 2.5	Pass	
			4.48	28.024	0.0340	-2.5 to 2.5	Pass	
		-30	3.89	24.570	0.0298	-2.5 to 2.5	Pass	
		-20	3.89	27.120	0.0329	-2.5 to 2.5	Pass	
		-10	3.89	30.155	0.0366	-2.5 to 2.5	Pass	
		0	3.89	26.184	0.0318	-2.5 to 2.5	Pass	
		10	3.89	28.121	0.0341	-2.5 to 2.5	Pass	
		30	3.89	29.606	0.0359	-2.5 to 2.5	Pass	
	40	3.89	31.963	0.0388	-2.5 to 2.5	Pass		
	50	3.89	28.864	0.0350	-2.5 to 2.5	Pass		
	836.6	20	3.4	25.958	0.0310	-2.5 to 2.5	Pass	
			3.89	26.216	0.0313	-2.5 to 2.5	Pass	
			4.48	27.508	0.0329	-2.5 to 2.5	Pass	
		-30	3.89	24.182	0.0289	-2.5 to 2.5	Pass	
		-20	3.89	28.799	0.0344	-2.5 to 2.5	Pass	
		-10	3.89	28.864	0.0345	-2.5 to 2.5	Pass	
		0	3.89	31.059	0.0371	-2.5 to 2.5	Pass	
		10	3.89	25.764	0.0308	-2.5 to 2.5	Pass	
		30	3.89	25.118	0.0300	-2.5 to 2.5	Pass	
	40	3.89	26.571	0.0318	-2.5 to 2.5	Pass		
	50	3.89	26.733	0.0320	-2.5 to 2.5	Pass		
	848.8	20	3.4	25.215	0.0297	-2.5 to 2.5	Pass	
			3.89	21.599	0.0254	-2.5 to 2.5	Pass	
			4.48	24.021	0.0283	-2.5 to 2.5	Pass	
		-30	3.89	25.280	0.0298	-2.5 to 2.5	Pass	
		-20	3.89	20.598	0.0243	-2.5 to 2.5	Pass	
		-10	3.89	22.794	0.0269	-2.5 to 2.5	Pass	
		0	3.89	21.018	0.0248	-2.5 to 2.5	Pass	
		10	3.89	23.214	0.0273	-2.5 to 2.5	Pass	
		30	3.89	25.183	0.0297	-2.5 to 2.5	Pass	
	40	3.89	24.214	0.0285	-2.5 to 2.5	Pass		
	50	3.89	20.631	0.0243	-2.5 to 2.5	Pass		
	EGPRS	824.2	20	3.4	36.580	0.0444	-2.5 to 2.5	Pass
				3.89	36.483	0.0443	-2.5 to 2.5	Pass
				4.48	36.644	0.0445	-2.5 to 2.5	Pass
			-30	3.89	35.482	0.0431	-2.5 to 2.5	Pass
			-20	3.89	38.065	0.0462	-2.5 to 2.5	Pass
			-10	3.89	36.644	0.0445	-2.5 to 2.5	Pass
			0	3.89	36.386	0.0441	-2.5 to 2.5	Pass
			10	3.89	36.096	0.0438	-2.5 to 2.5	Pass
			30	3.89	35.450	0.0430	-2.5 to 2.5	Pass
	40	3.89	34.384	0.0417	-2.5 to 2.5	Pass		



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	836.6	50	3.89	35.579	0.0432	-2.5 to 2.5	Pass
		20	3.4	35.256	0.0421	-2.5 to 2.5	Pass
			3.89	34.772	0.0416	-2.5 to 2.5	Pass
			4.48	33.836	0.0404	-2.5 to 2.5	Pass
			-30	3.89	33.642	0.0402	-2.5 to 2.5
		-20	3.89	33.868	0.0405	-2.5 to 2.5	Pass
		-10	3.89	33.384	0.0399	-2.5 to 2.5	Pass
		0	3.89	34.255	0.0409	-2.5 to 2.5	Pass
		10	3.89	34.384	0.0411	-2.5 to 2.5	Pass
		30	3.89	31.898	0.0381	-2.5 to 2.5	Pass
	40	3.89	31.446	0.0376	-2.5 to 2.5	Pass	
	50	3.89	30.575	0.0365	-2.5 to 2.5	Pass	
	848.8	20	3.4	31.414	0.0370	-2.5 to 2.5	Pass
			3.89	30.672	0.0361	-2.5 to 2.5	Pass
			4.48	29.283	0.0345	-2.5 to 2.5	Pass
		-30	3.89	27.378	0.0323	-2.5 to 2.5	Pass
		-20	3.89	30.316	0.0357	-2.5 to 2.5	Pass
		-10	3.89	30.898	0.0364	-2.5 to 2.5	Pass
		0	3.89	32.770	0.0386	-2.5 to 2.5	Pass
10		3.89	32.544	0.0383	-2.5 to 2.5	Pass	
30		3.89	30.930	0.0364	-2.5 to 2.5	Pass	
40		3.89	30.542	0.0360	-2.5 to 2.5	Pass	
50	3.89	33.642	0.0396	-2.5 to 2.5	Pass		

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