

Report No.: SEWM2311000475RG01

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	32.60	-1.60	28.85	<=38.45	Pass
			836.6	32.75	-1.60	29	<=38.45	Pass
			848.8	32.18	-1.60	28.43	<=38.45	Pass
	EGPRS	1 TX Slot	824.2	26.27	-1.60	22.52	<=38.45	Pass
		2 TX Slots	824.2	24.70	-1.60	20.95	<=38.45	Pass
		3 TX Slots	824.2	23.81	-1.60	20.06	<=38.45	Pass
		4 TX Slots	824.2	22.90	-1.60	19.15	<=38.45	Pass
		1 TX Slot	836.6	26.24	-1.60	22.49	<=38.45	Pass
		2 TX Slots	836.6	24.64	-1.60	20.89	<=38.45	Pass
		3 TX Slots	836.6	23.81	-1.60	20.06	<=38.45	Pass
		4 TX Slots	836.6	22.75	-1.60	19	<=38.45	Pass
		1 TX Slot	848.8	26.15	-1.60	22.4	<=38.45	Pass
		2 TX Slots	848.8	24.74	-1.60	20.99	<=38.45	Pass
		3 TX Slots	848.8	23.58	-1.60	19.83	<=38.45	Pass
		4 TX Slots	848.8	22.87	-1.60	19.12	<=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	9.56	<=13	Pass
			836.6	9.01	<=13	Pass
			848.8	9.67	<=13	Pass
	EGPRS	4 TX Slots	824.2	8.83	<=13	Pass
			836.6	8.85	<=13	Pass
			848.8	8.74	<=13	Pass



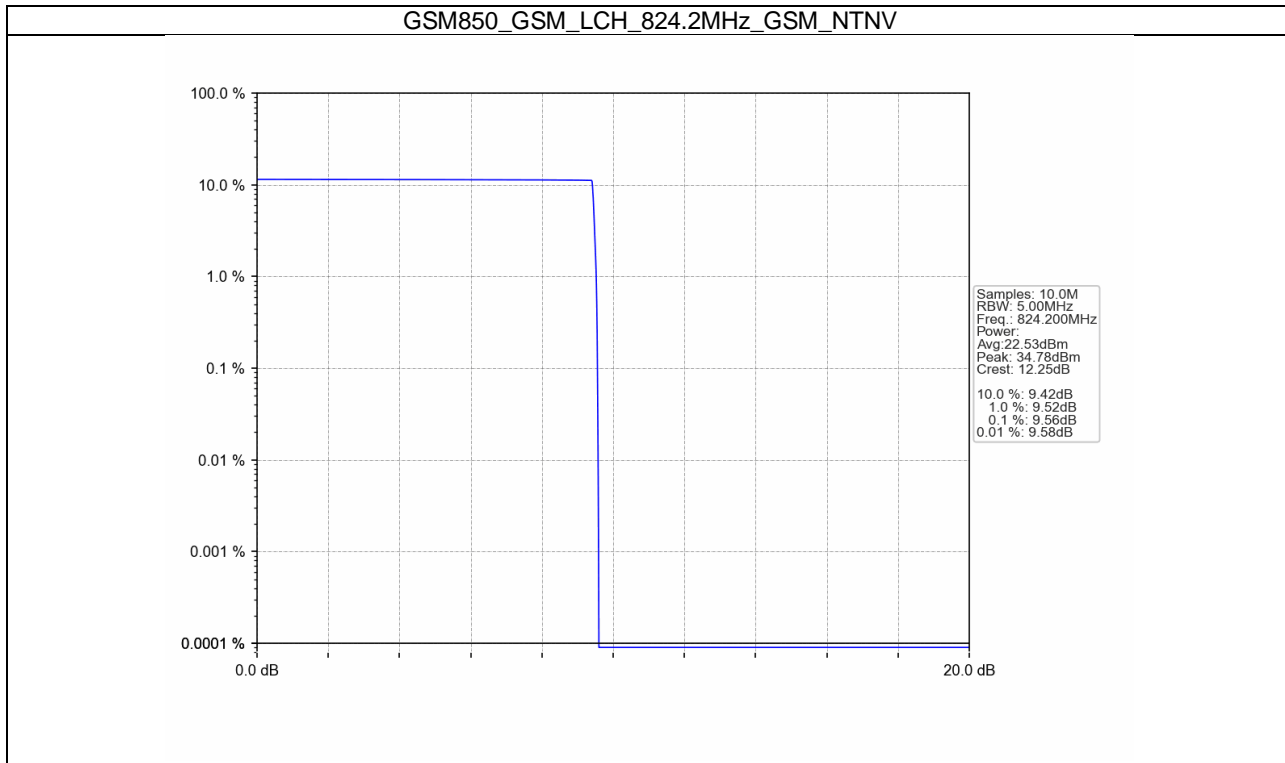
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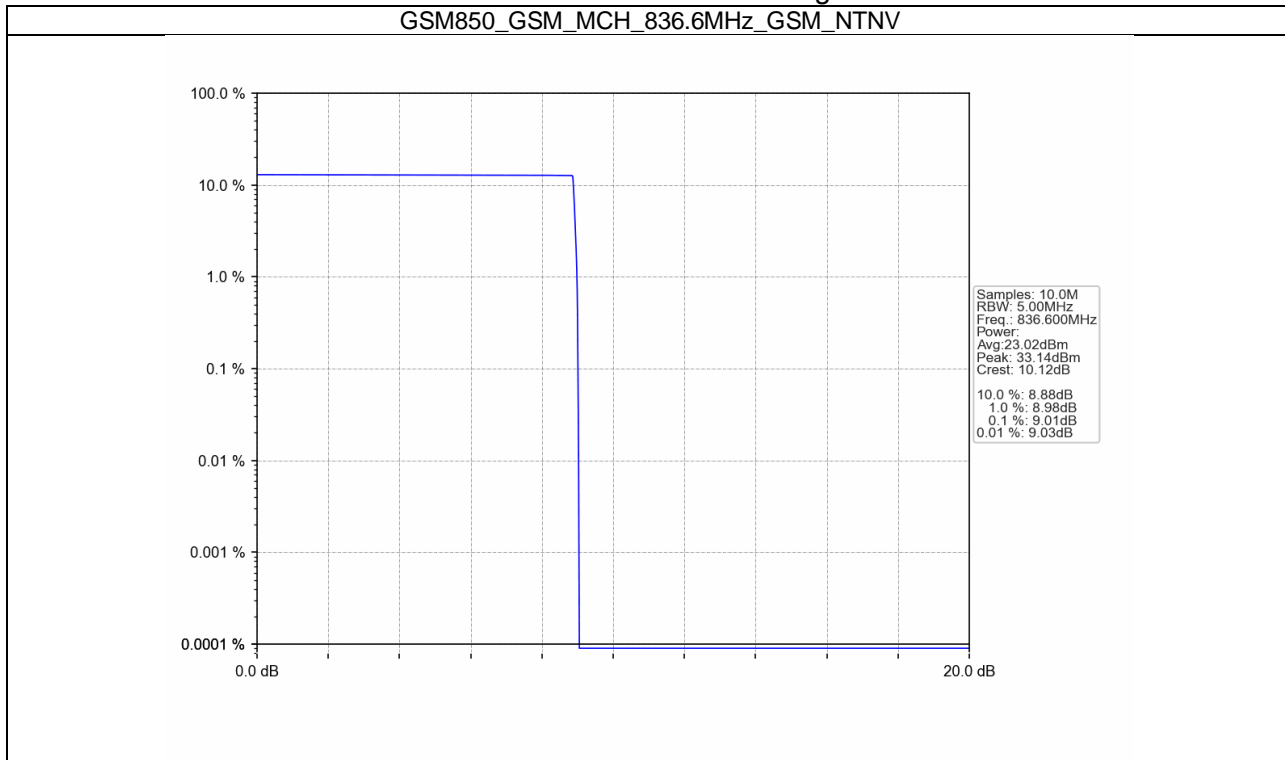
Test Graph



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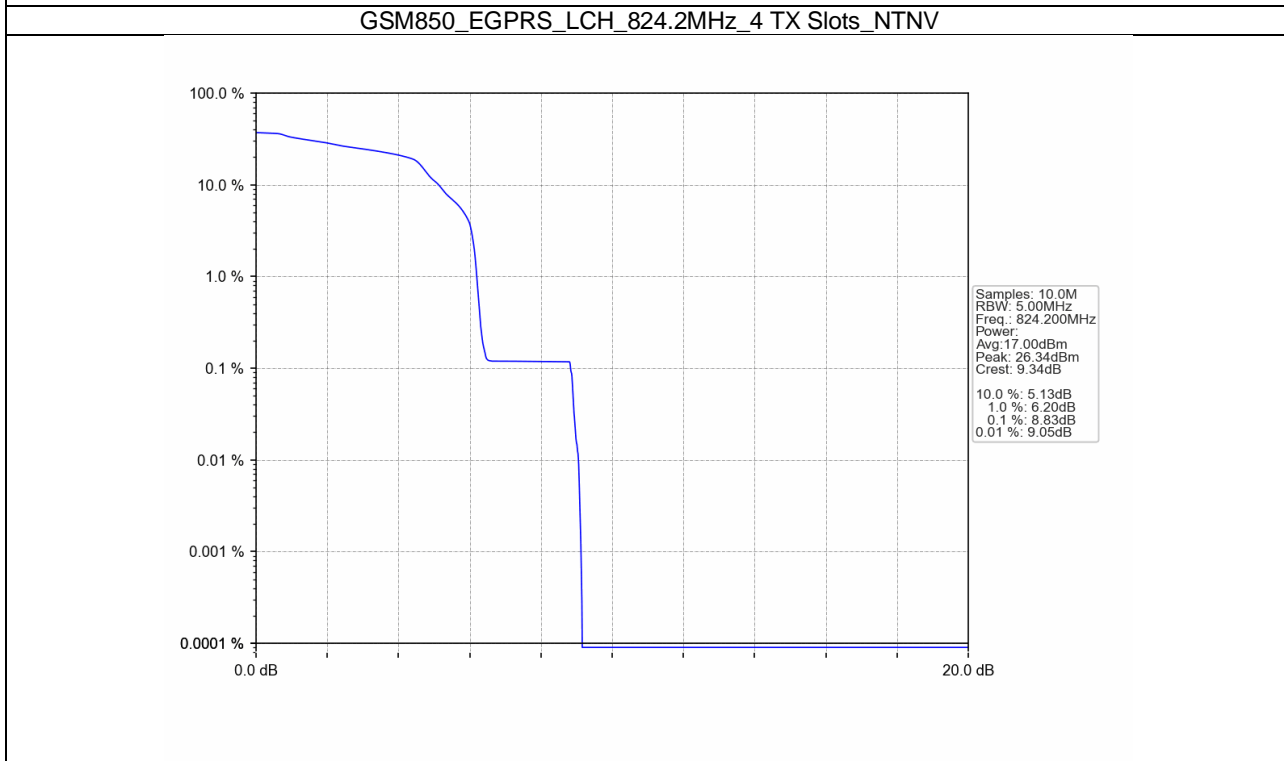
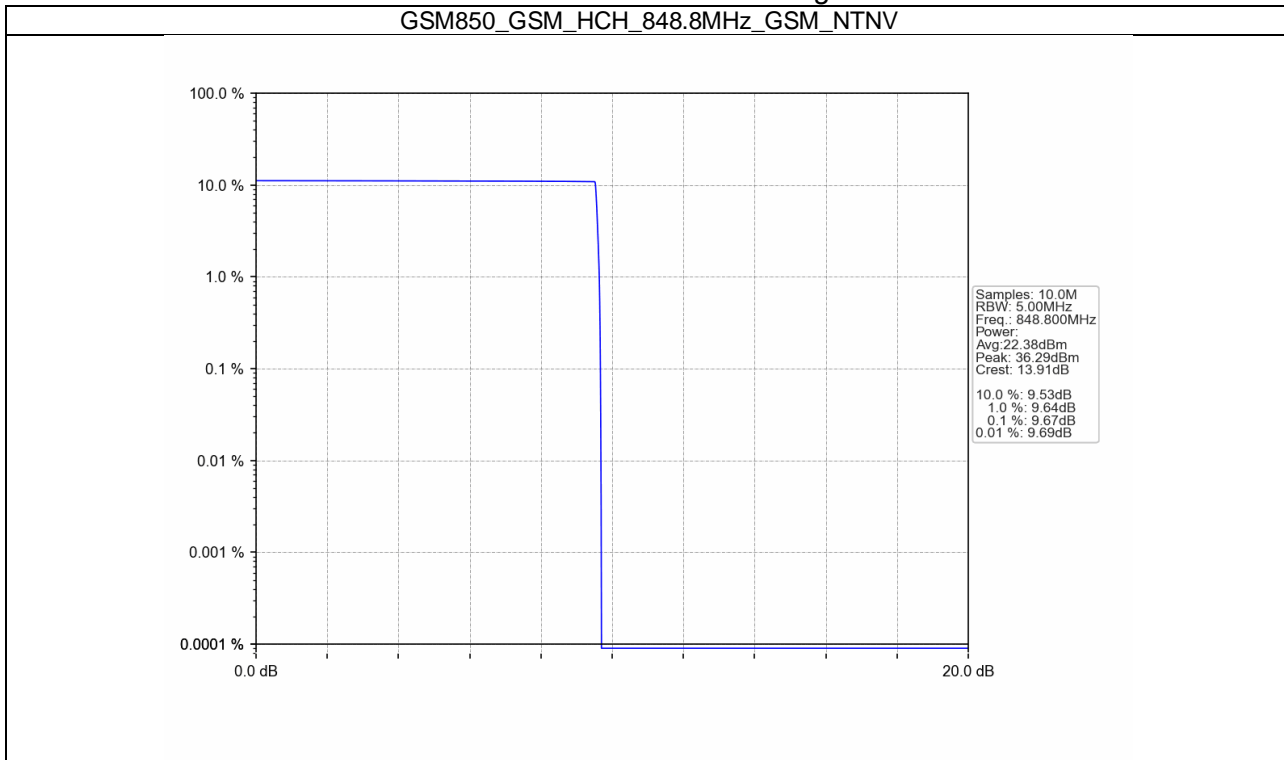
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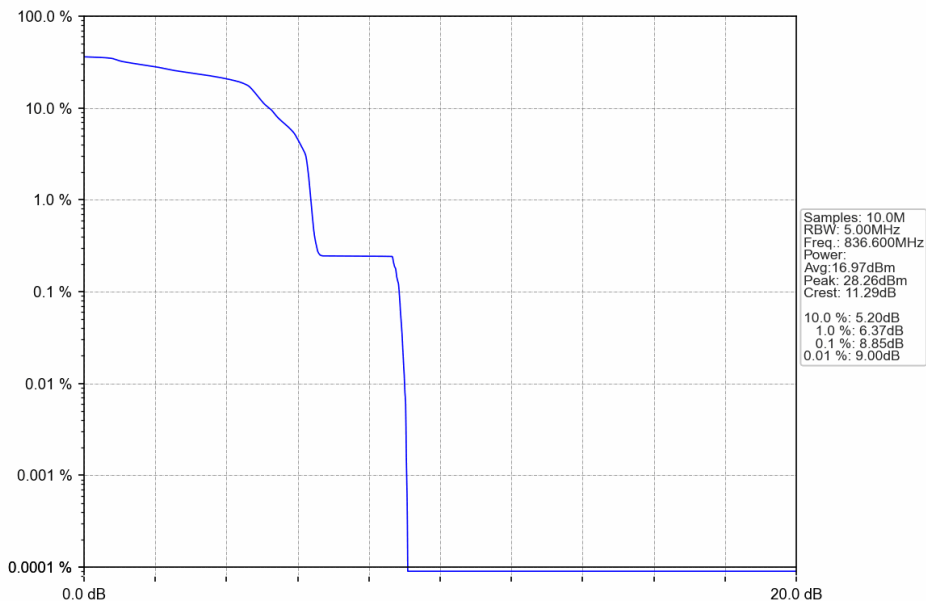
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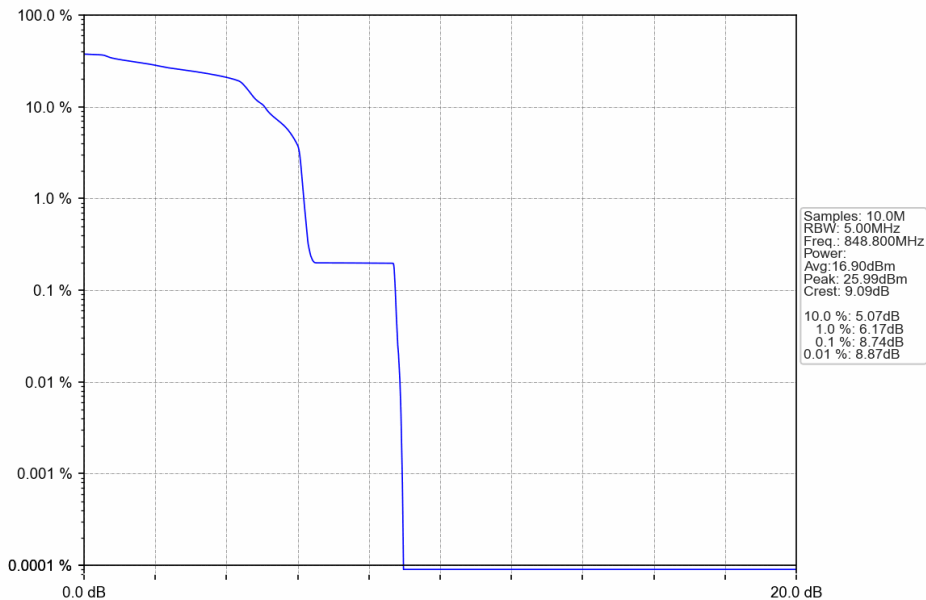
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GSM850\_EGPRS\_MCH\_836.6MHz\_4 TX Slots\_NTNV



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	0.243	/	Pass
			836.6	0.247	/	Pass
			848.8	0.241	/	Pass
	EGPRS	1 TX Slot	824.2	0.245	/	Pass
			836.6	0.244	/	Pass
			848.8	0.238	/	Pass

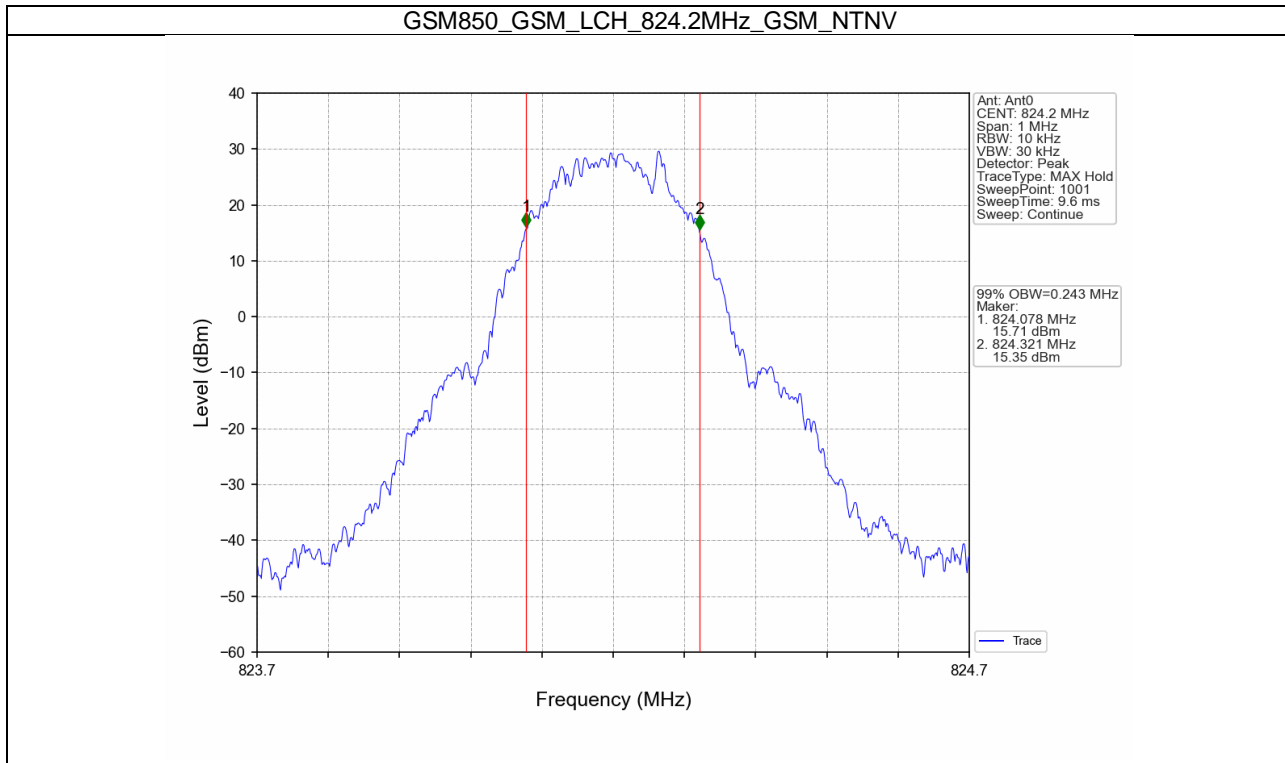


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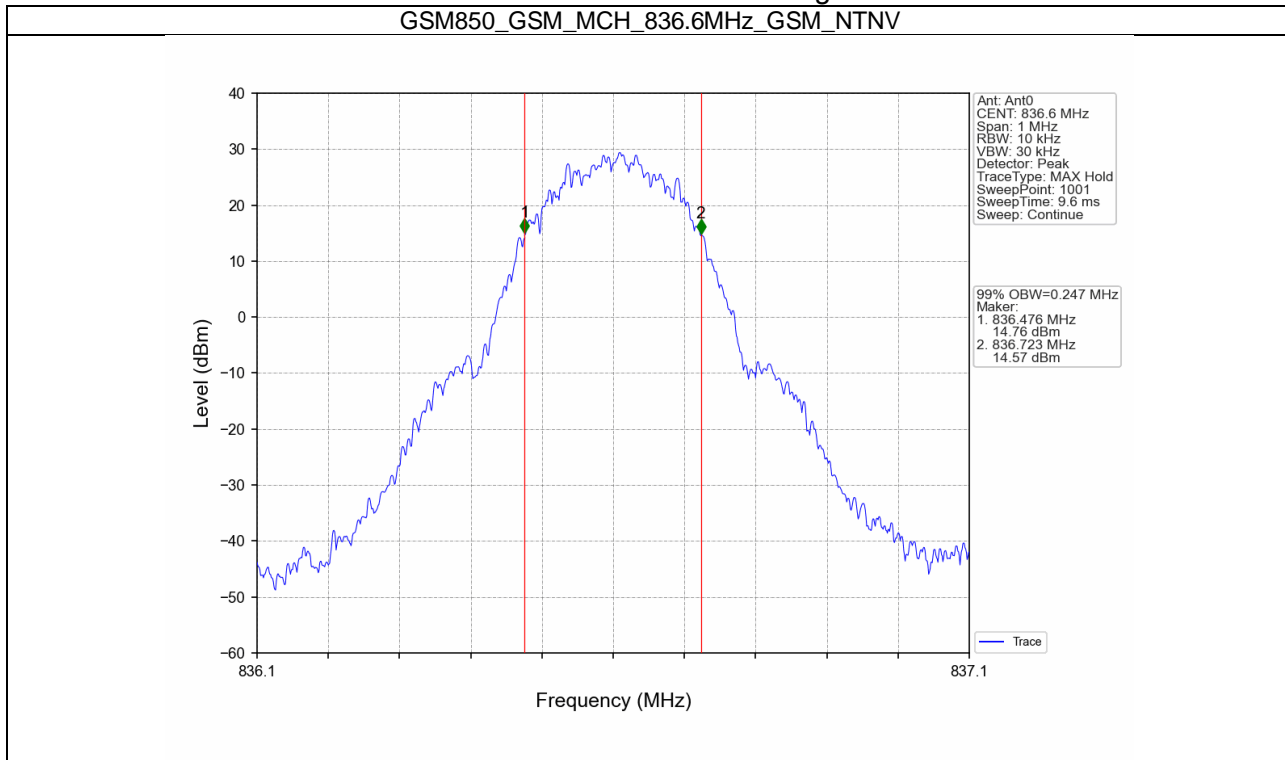


Test Graph



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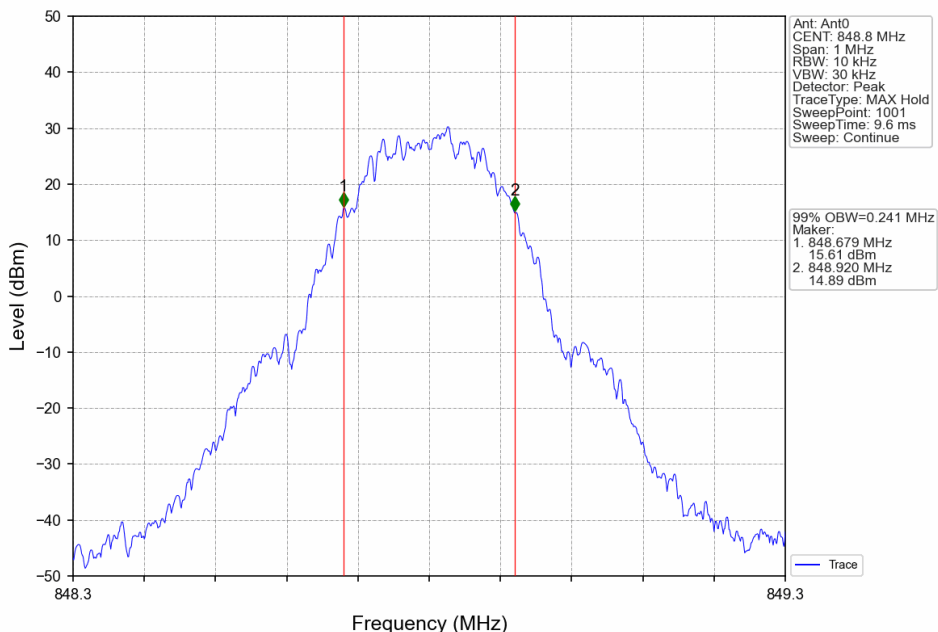


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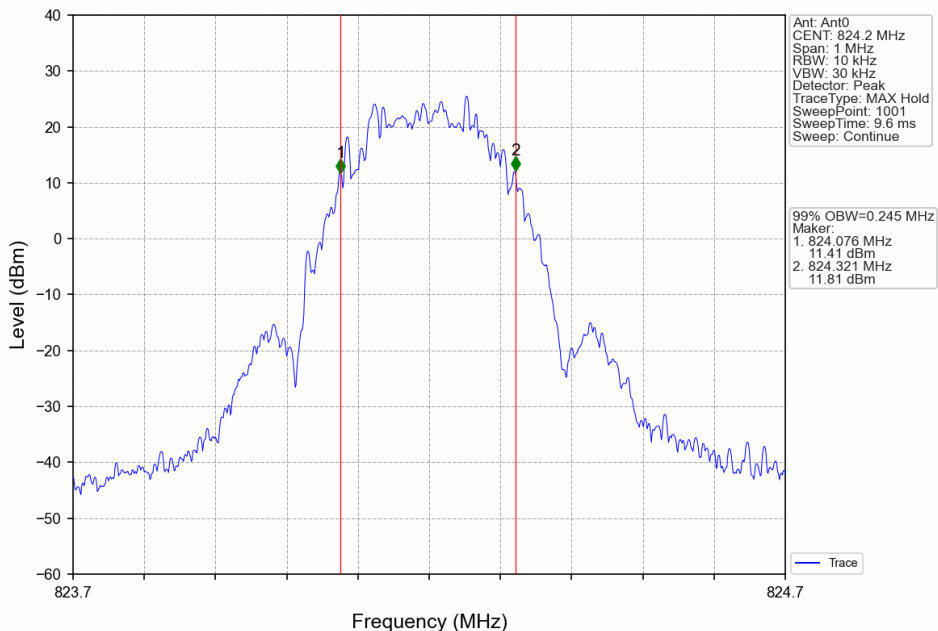
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GSM850\_GSM\_HCH\_848.8MHz\_GSM\_NTNV



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

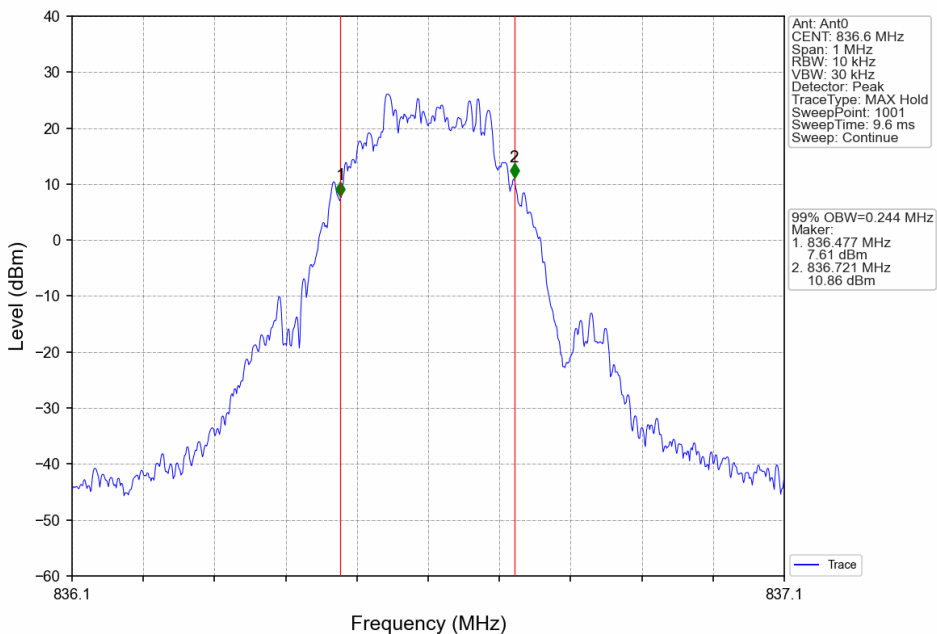


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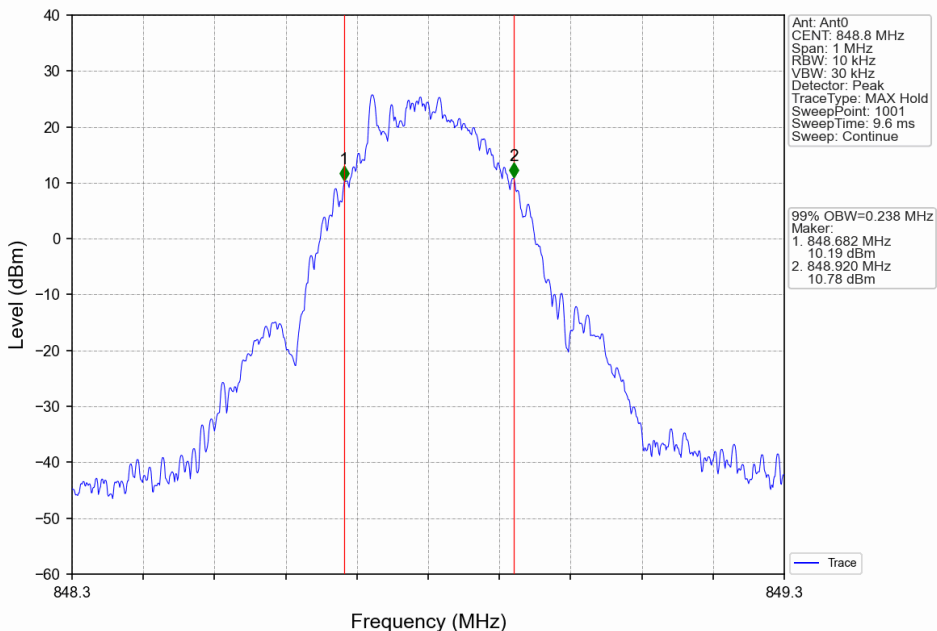
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GSM850\_EGPRS\_MCH\_836.6MHz\_1 TX Slot\_NTNV



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	0.317	/	Pass
			848.8	0.316	/	Pass
	EGPRS	1 TX Slot	824.2	0.306	/	Pass
			836.6	0.312	/	Pass
			848.8	0.302	/	Pass



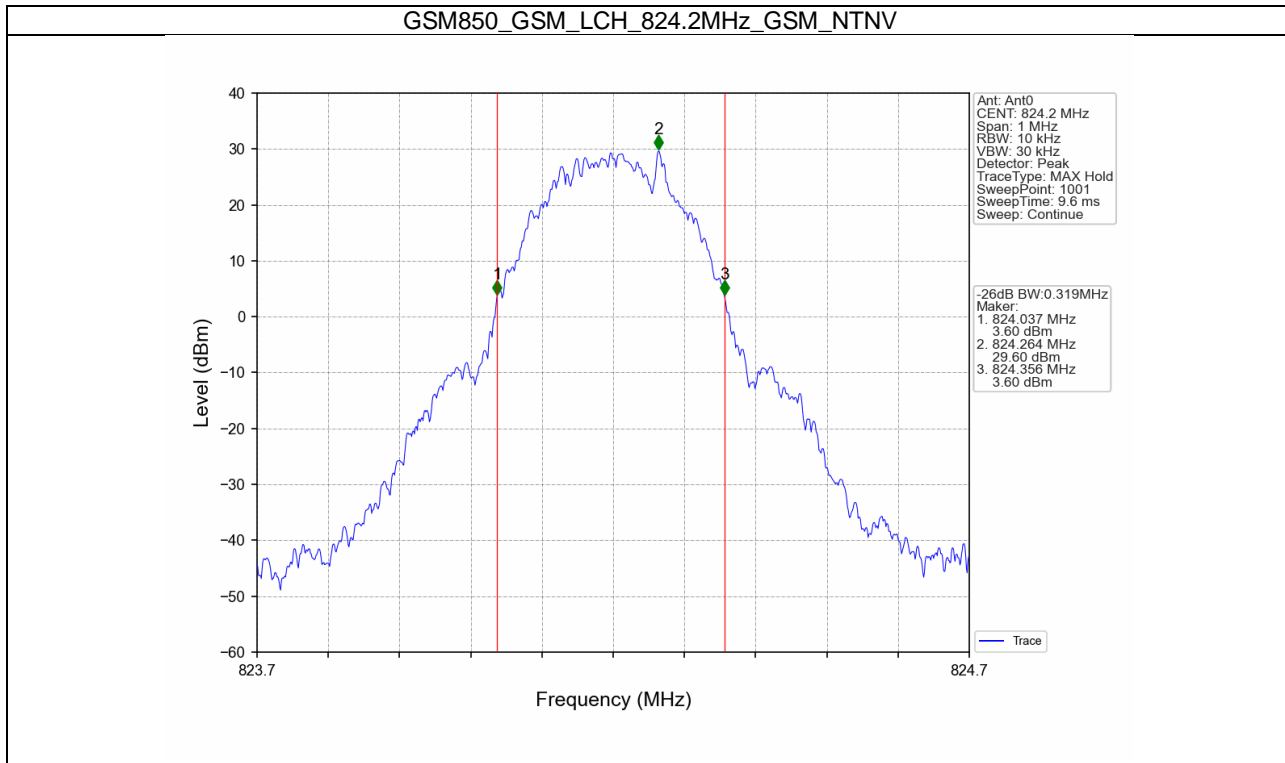
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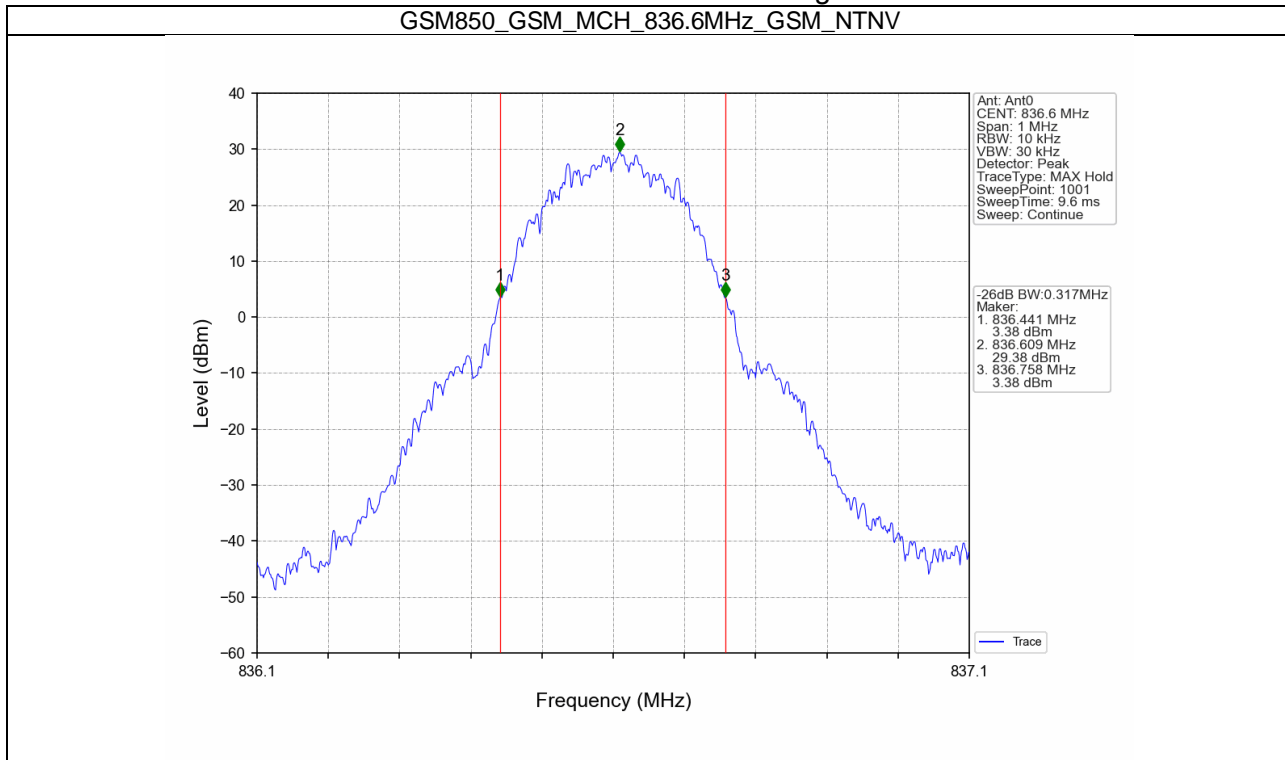
Test Graph



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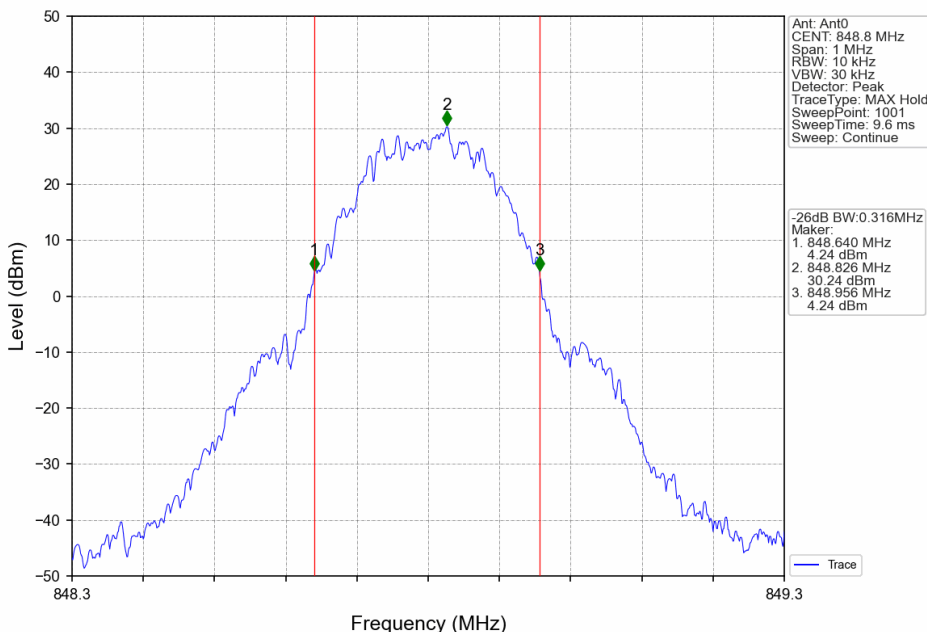


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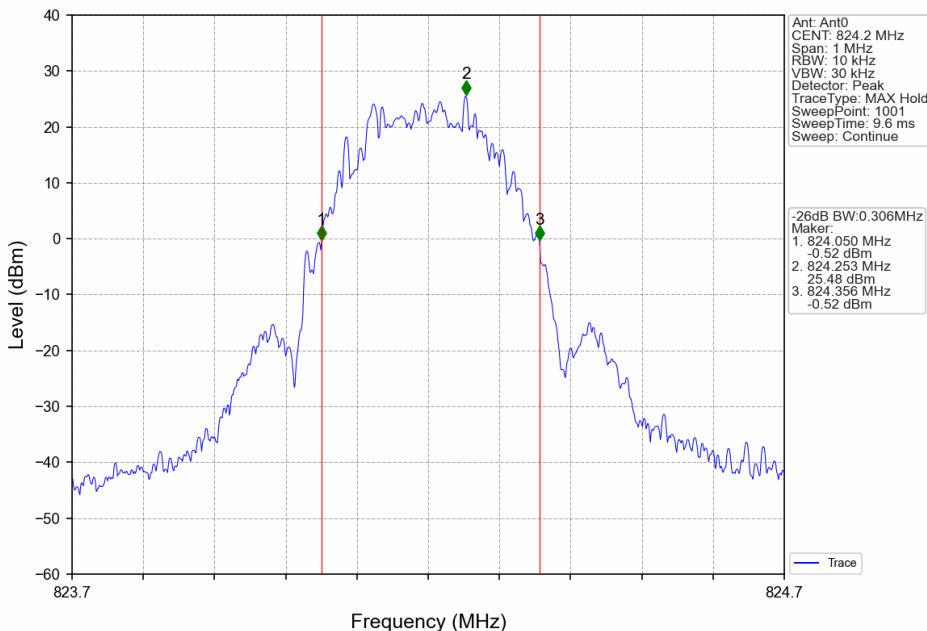
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GSM850\_GSM\_HCH\_848.8MHz\_GSM\_NTNV

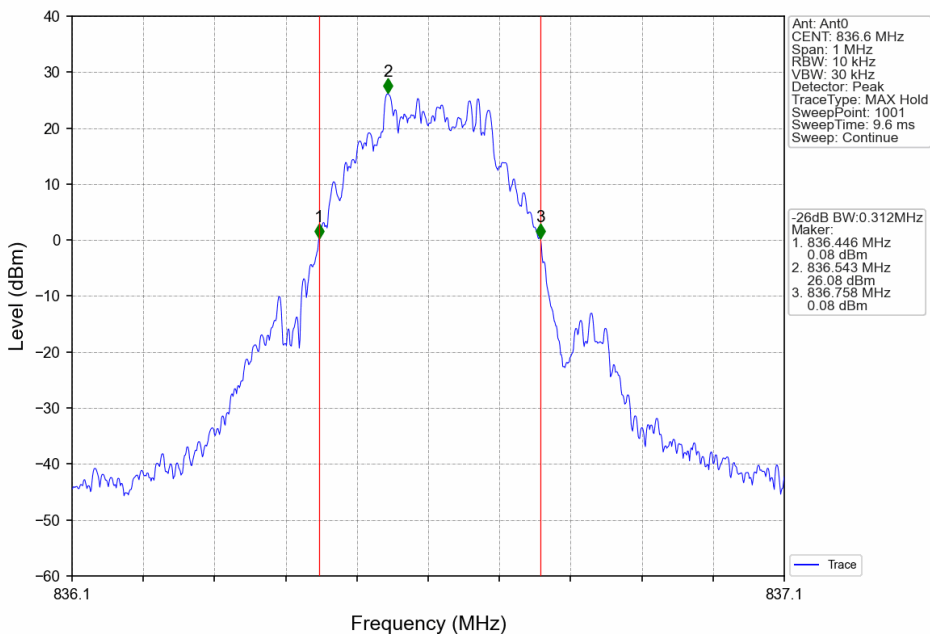


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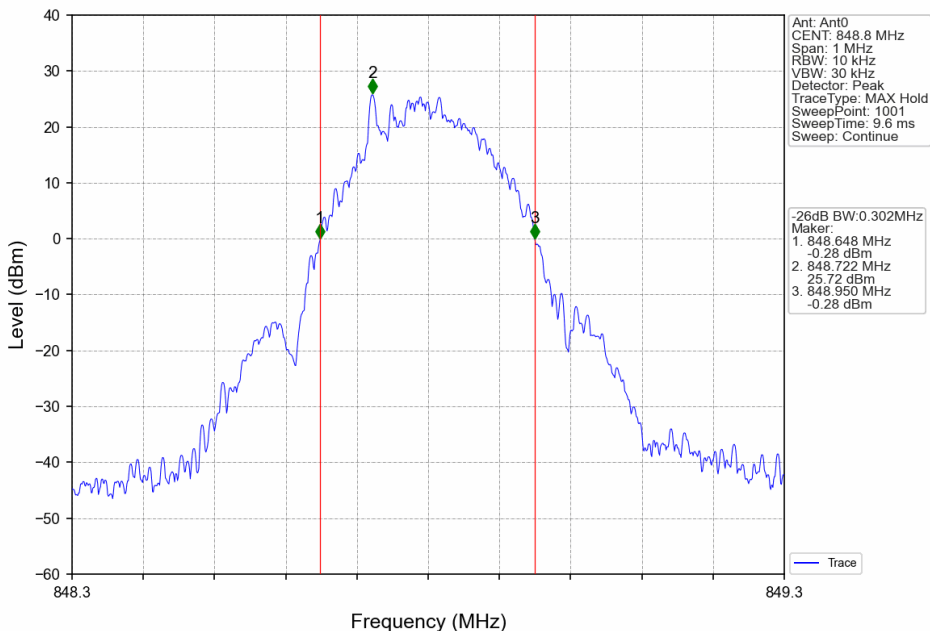


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Report No.: SEWM2311000475RG01

Rev.: 01

Page: 18 of 32

## 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	



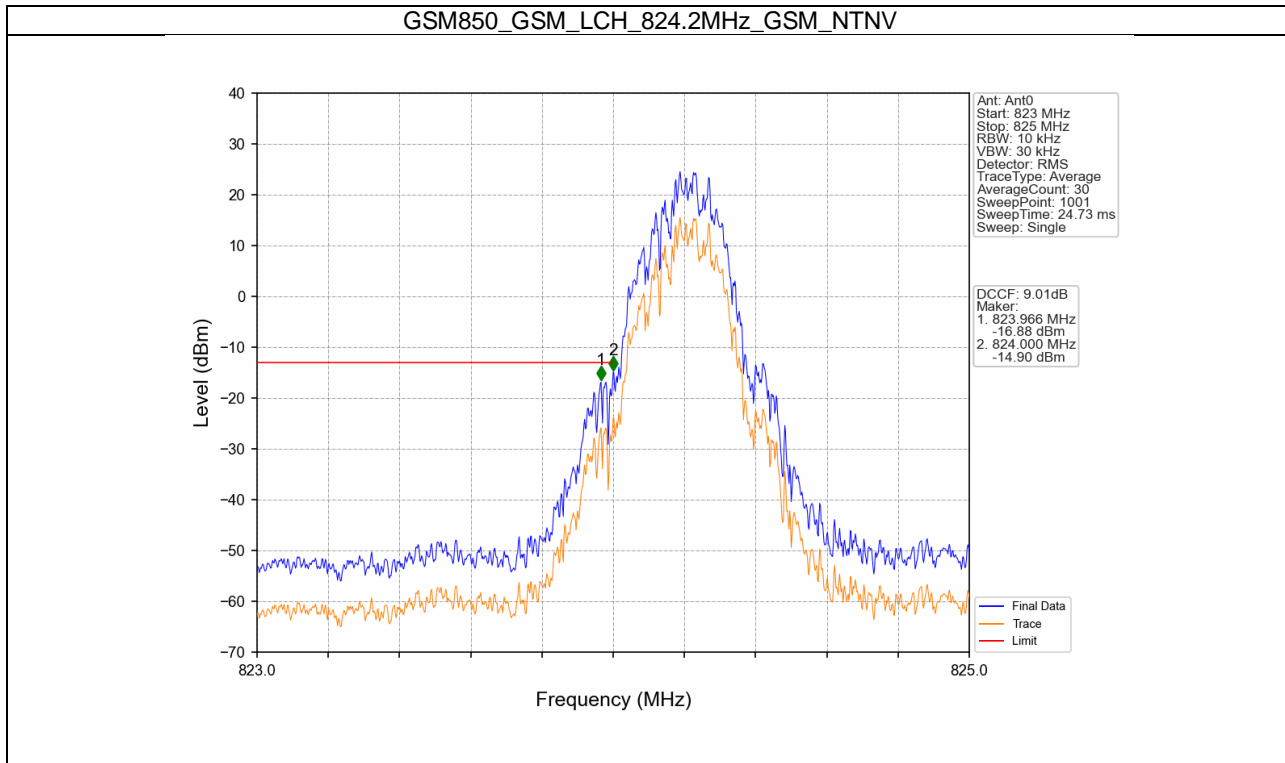
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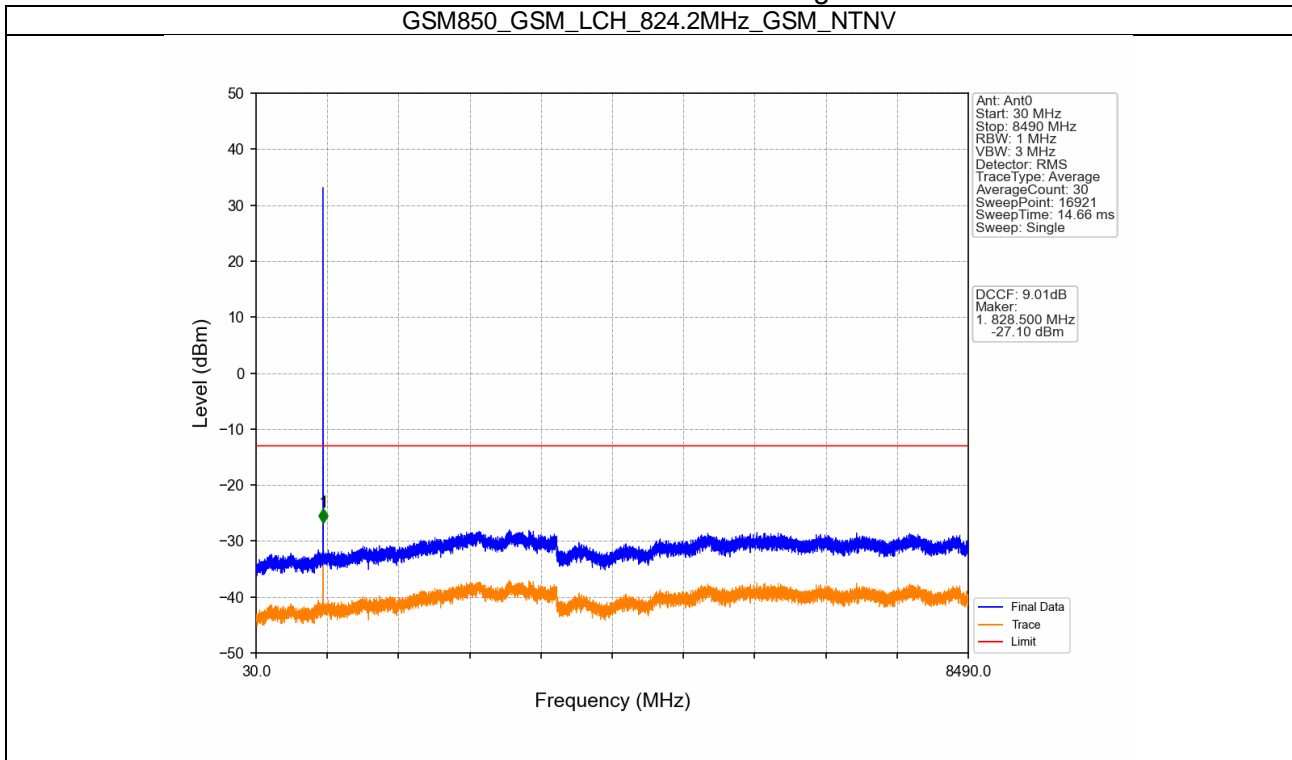
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Test Graph



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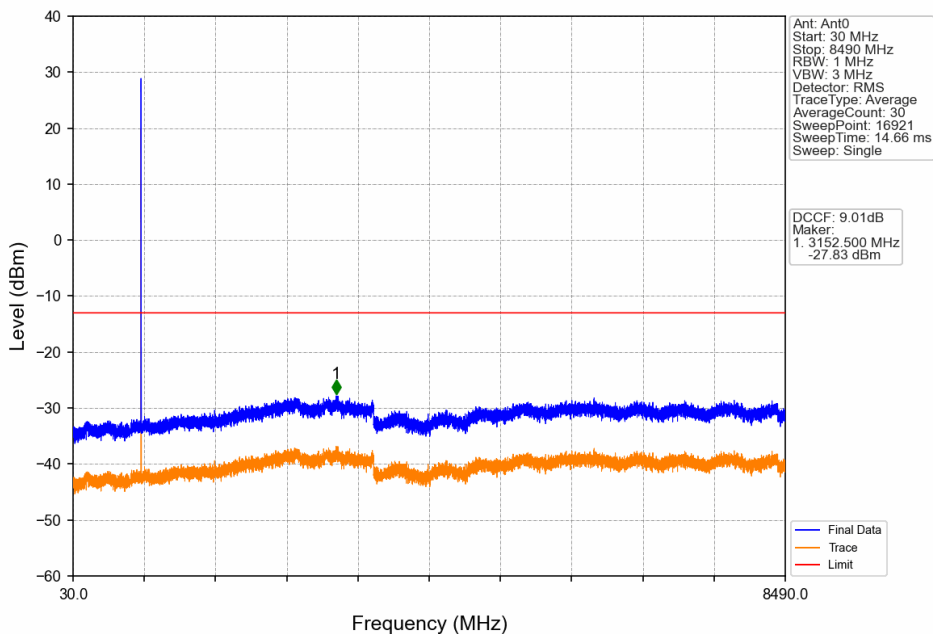
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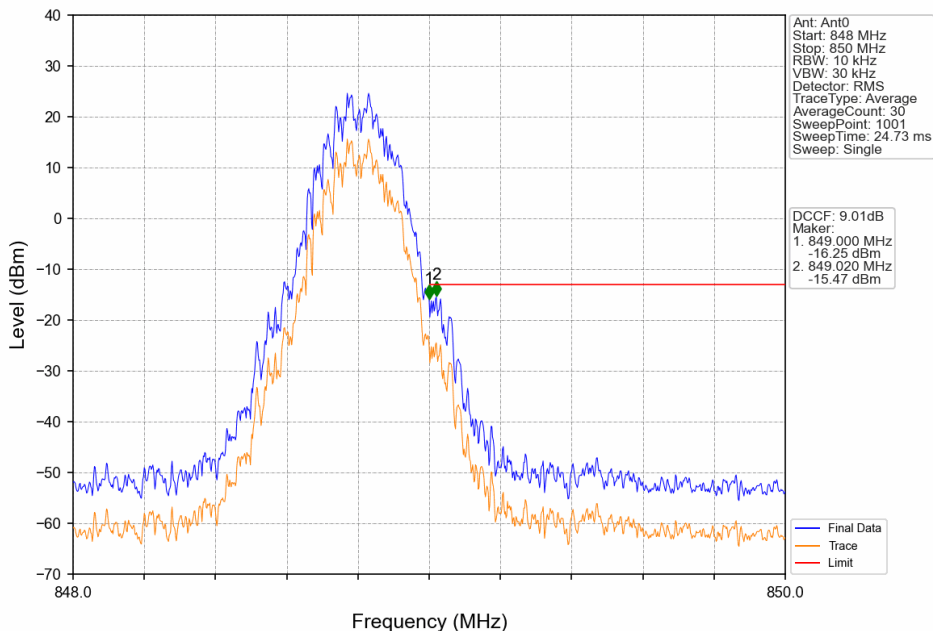
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GSM850\_GSM\_MCH\_836.6MHz\_GSM\_NTNV



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

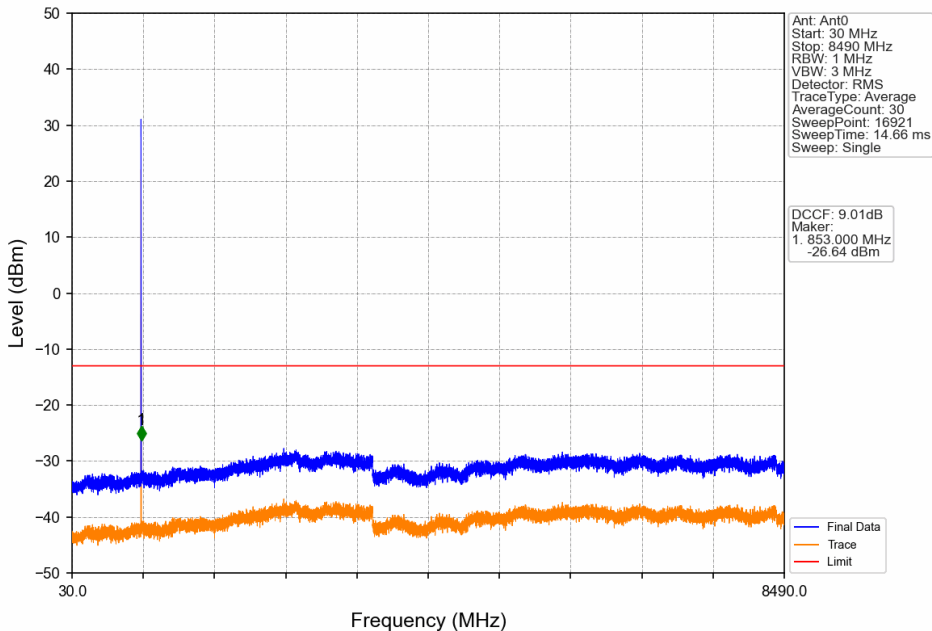


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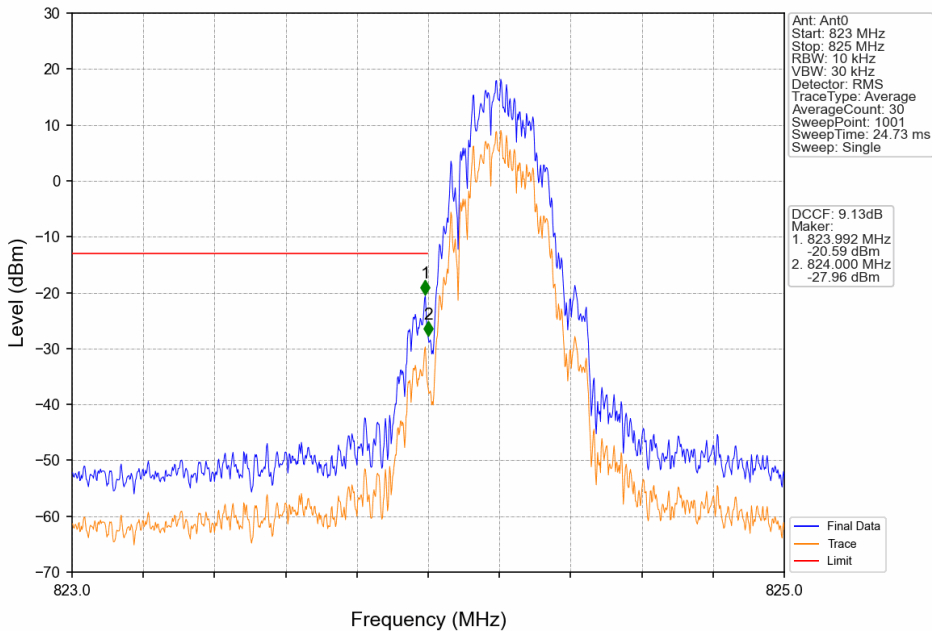
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GSM850\_EGPRS\_LCH\_824.2MHz\_1 TX Slot\_NTNV

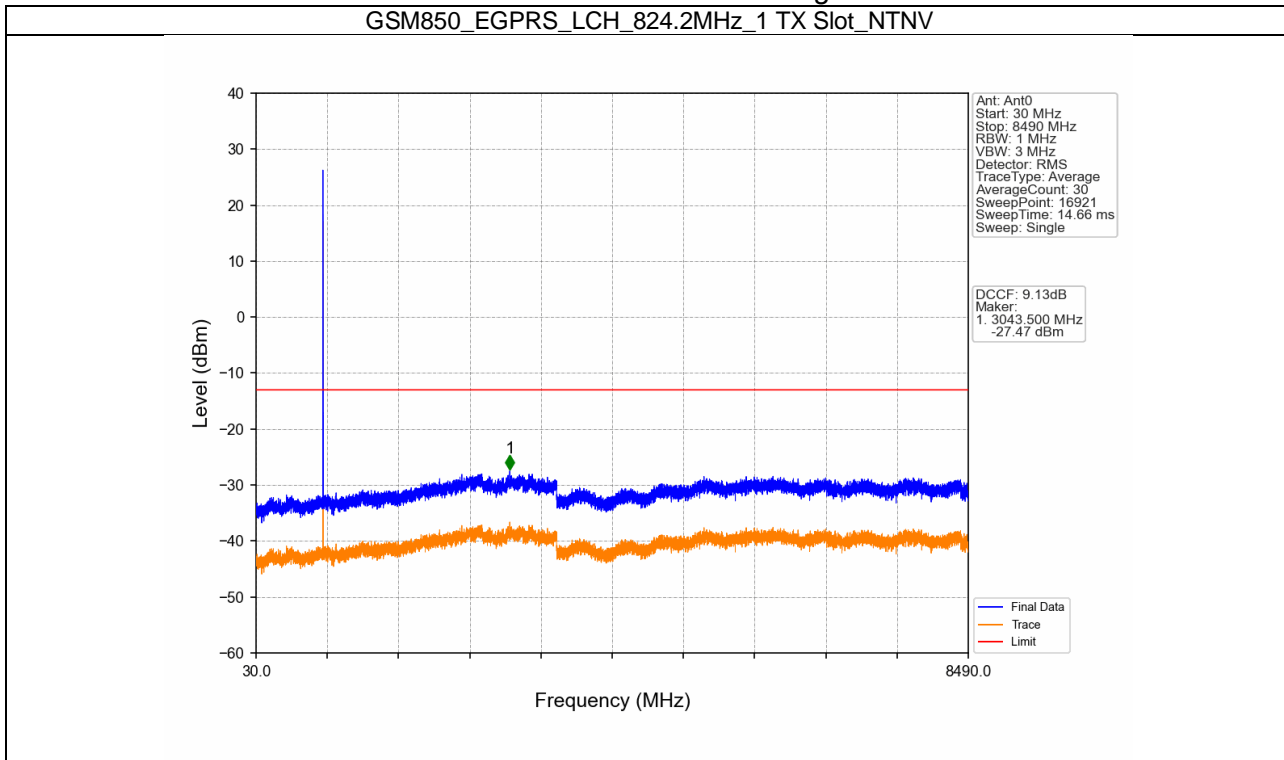


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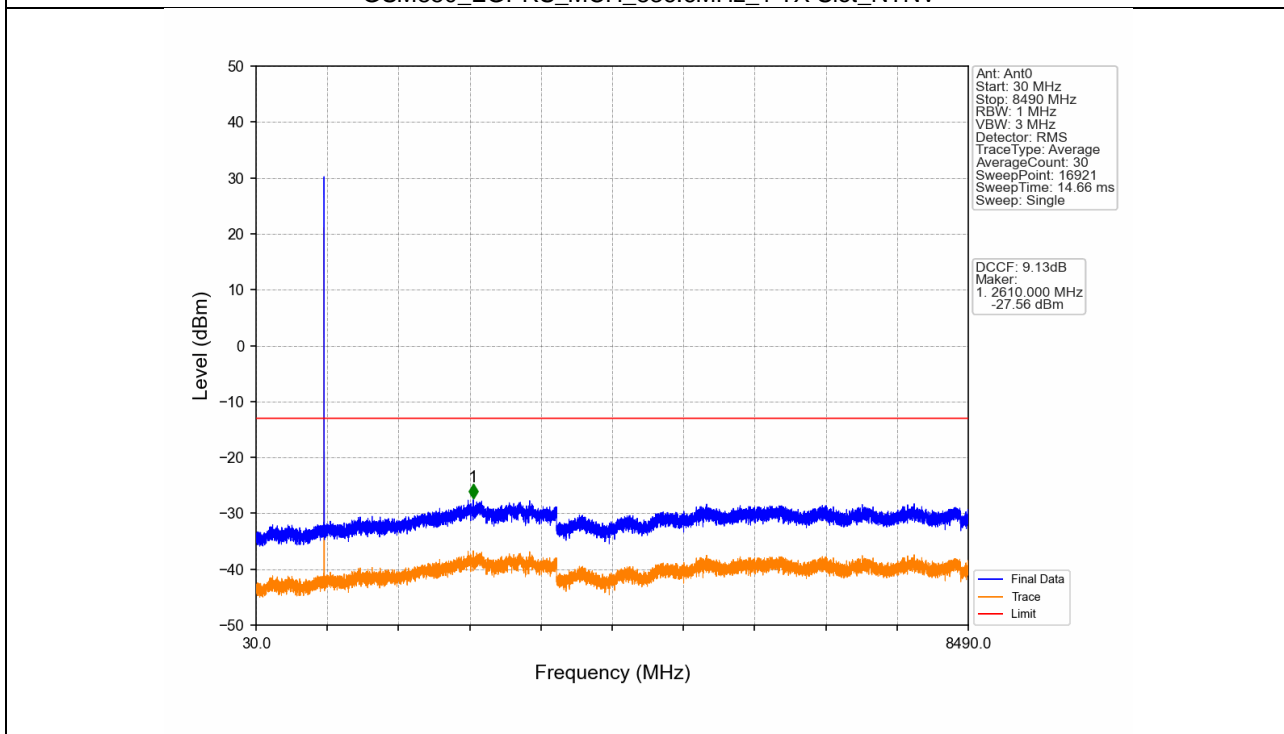
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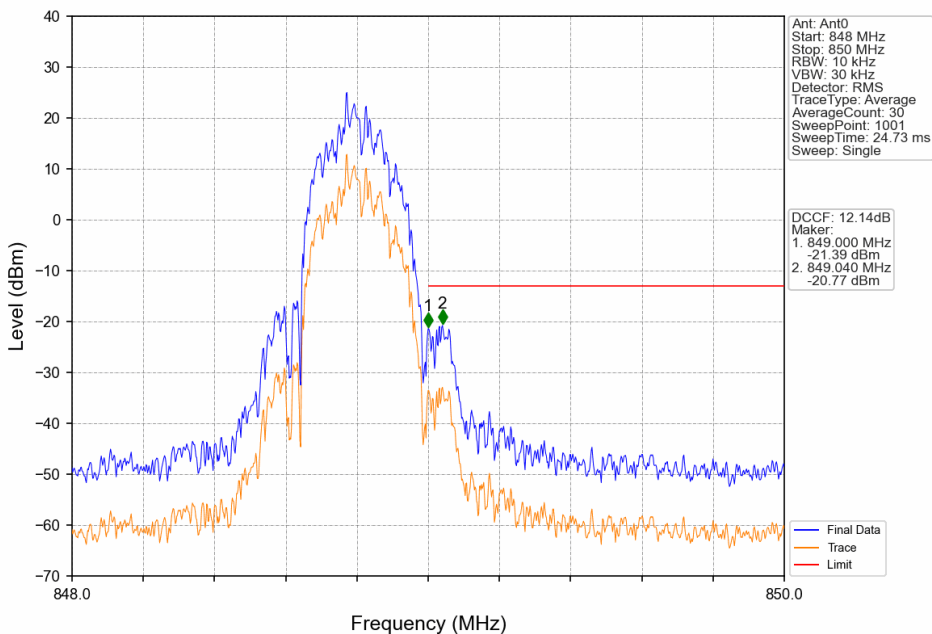


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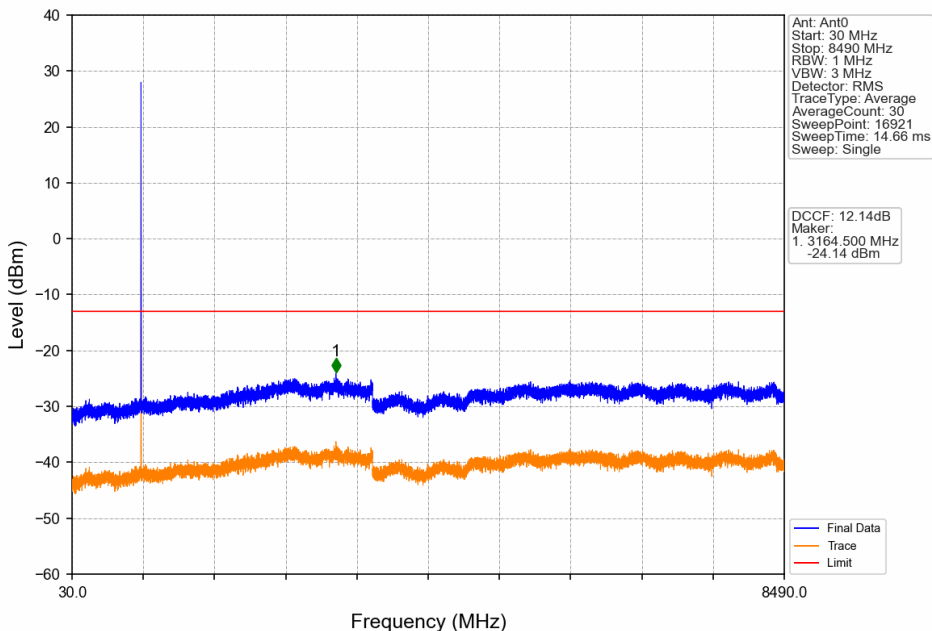


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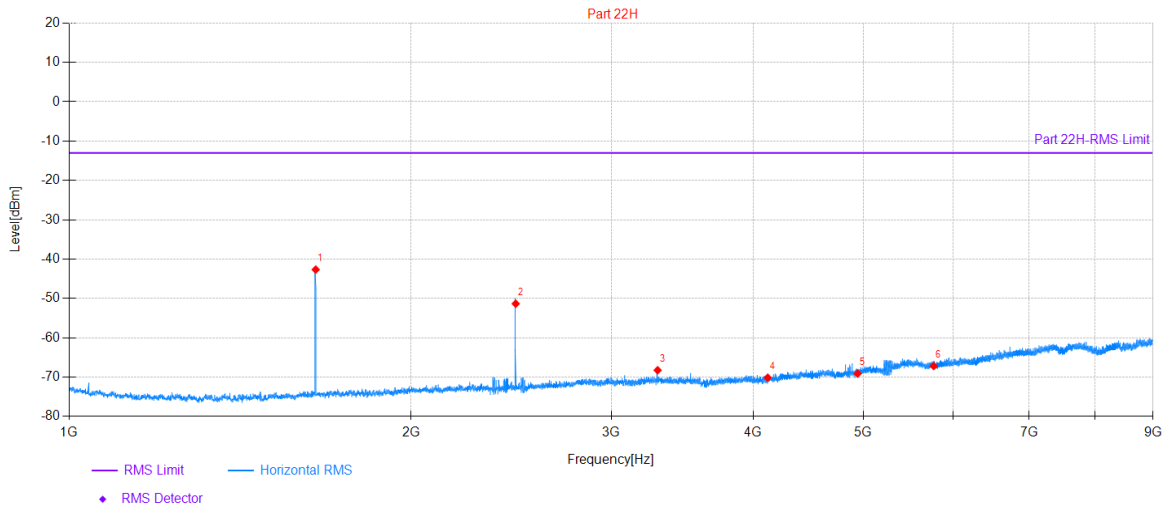


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## Field Strength of Spurious Radiation

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	77.12	-49.83	25.29	-42.67	-13.00	29.67	Horizontal
2	2472.6	65.72	-49.06	27.27	-51.33	-13.00	38.33	Horizontal
3	3296.8	47.03	-48.63	28.62	-68.24	-13.00	55.24	Horizontal
4	4121	43.78	-48.28	29.62	-70.14	-13.00	57.14	Horizontal
5	4945.2	42.87	-48.07	31.37	-69.10	-13.00	56.10	Horizontal
6	5769.4	43.00	-47.65	32.75	-67.16	-13.00	54.16	Horizontal



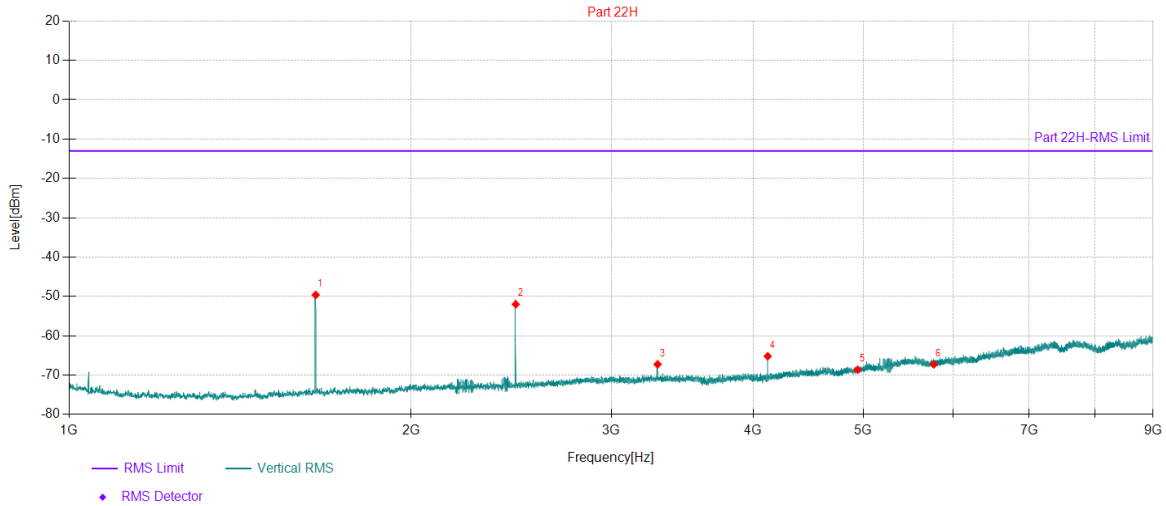
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Test Band = GSM 850\_  
Test Channel = Low Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.4	70.17	-49.83	25.29	-49.62	-13.00	36.62	Vertical
2	2472.6	65.05	-49.06	27.27	-52.00	-13.00	39.00	Vertical
3	3296.8	48.02	-48.63	28.62	-67.25	-13.00	54.25	Vertical
4	4121	48.72	-48.28	29.62	-65.20	-13.00	52.20	Vertical
5	4945.2	43.35	-48.07	31.37	-68.62	-13.00	55.62	Vertical
6	5769.4	42.88	-47.65	32.75	-67.28	-13.00	54.28	Vertical



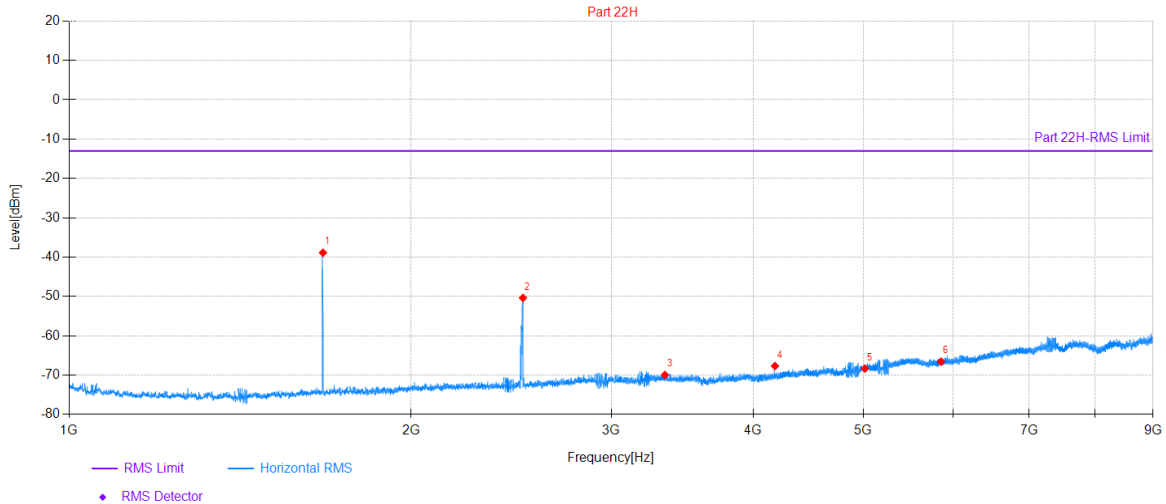
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**Test Band = GSM 850\_**  
**Test Channel = Mid Channel**



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.8	80.76	-49.78	25.39	-38.89	-13.00	25.89	Horizontal
2	2509.2	66.49	-48.93	27.32	-50.37	-13.00	37.37	Horizontal
3	3345.6	45.31	-48.66	28.64	-69.97	-13.00	56.97	Horizontal
4	4182	46.18	-48.34	29.73	-67.69	-13.00	54.69	Horizontal
5	5018.4	43.34	-47.95	31.54	-68.33	-13.00	55.33	Horizontal
6	5854.8	43.23	-47.33	32.77	-66.59	-13.00	53.59	Horizontal

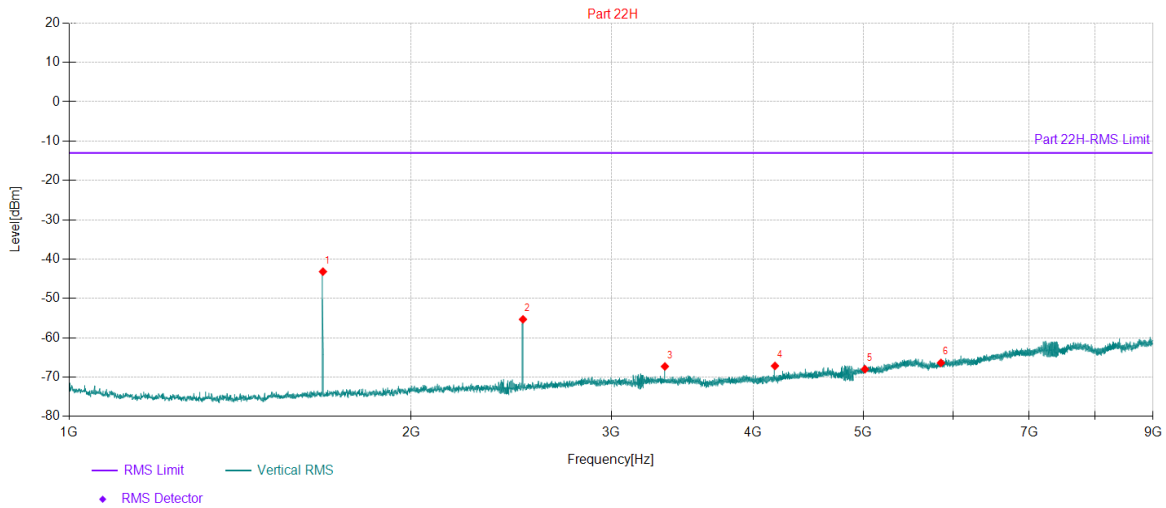


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**Test Band = GSM 850\_**  
**Test Channel = Mid Channel**



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.8	76.46	-49.78	25.39	-43.19	-13.00	30.19	Vertical
2	2509.2	61.55	-48.93	27.32	-55.31	-13.00	42.31	Vertical
3	3345.6	48.00	-48.66	28.64	-67.28	-13.00	54.28	Vertical
4	4182	46.72	-48.34	29.73	-67.15	-13.00	54.15	Vertical
5	5018.4	43.68	-47.95	31.54	-67.99	-13.00	54.99	Vertical
6	5854.8	43.44	-47.33	32.77	-66.38	-13.00	53.38	Vertical

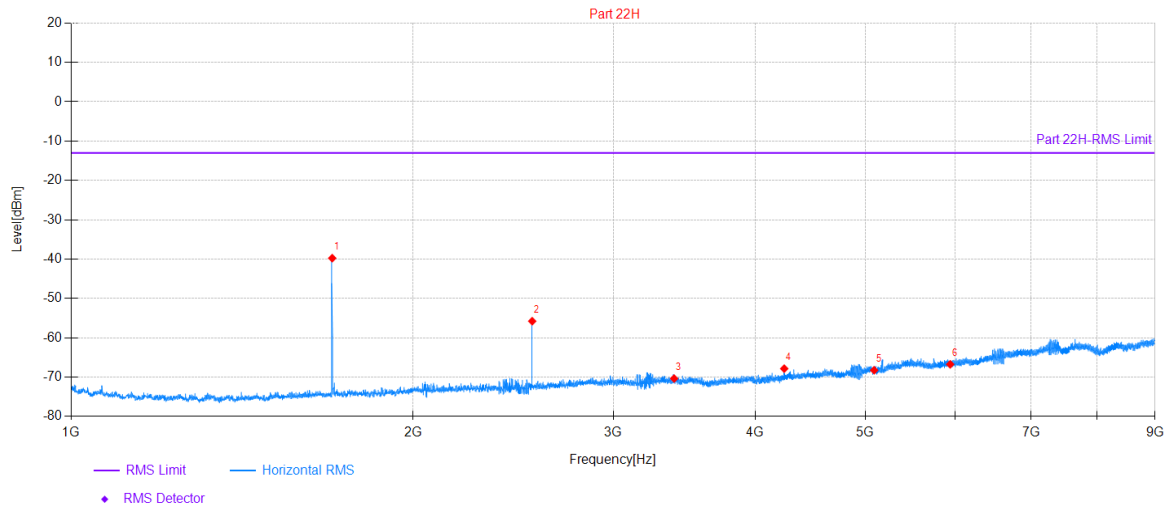


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Test Band = GSM 850\_  
Test Channel = High Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.6	79.73	-49.72	25.49	-39.76	-13.00	26.76	Horizontal
2	2546.4	61.09	-49.03	27.41	-55.78	-13.00	42.78	Horizontal
3	3395.2	44.93	-48.69	28.66	-70.36	-13.00	57.36	Horizontal
4	4244	45.79	-48.21	29.84	-67.85	-13.00	54.85	Horizontal
5	5092.8	43.22	-47.92	31.72	-68.24	-13.00	55.24	Horizontal
6	5941.6	42.98	-47.26	32.79	-66.75	-13.00	53.75	Horizontal

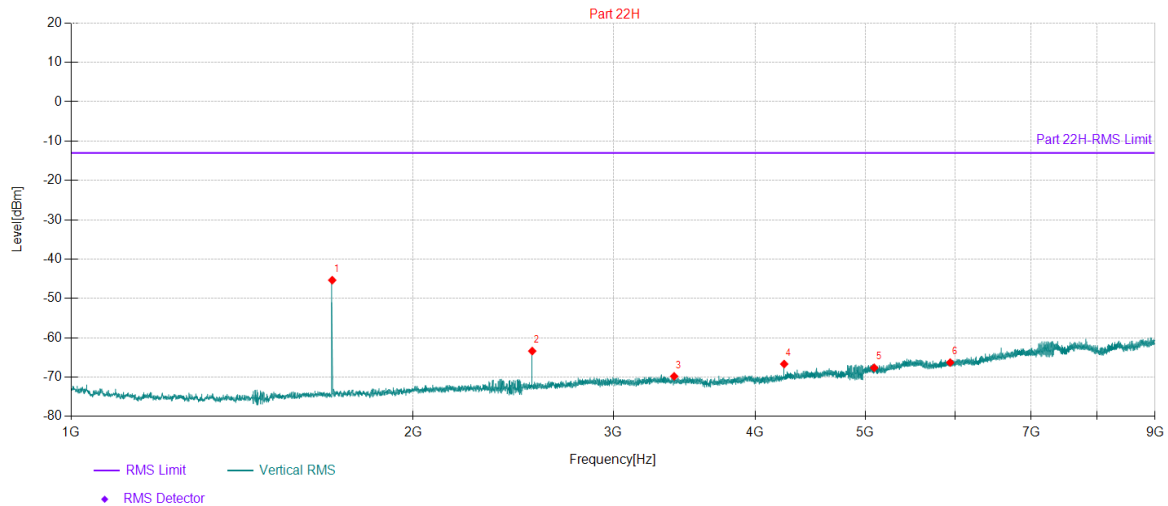


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Test Band = GSM 850\_  
Test Channel = High Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.6	74.13	-49.72	25.49	-45.36	-13.00	32.36	Vertical
2	2546.4	53.50	-49.03	27.41	-63.37	-13.00	50.37	Vertical
3	3395.2	45.50	-48.69	28.66	-69.79	-13.00	56.79	Vertical
4	4244	46.97	-48.21	29.84	-66.67	-13.00	53.67	Vertical
5	5092.8	43.84	-47.92	31.72	-67.62	-13.00	54.62	Vertical
6	5941.6	43.44	-47.26	32.79	-66.29	-13.00	53.29	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:

$AF = \text{Antenna Factor (dB/m)}$

$\text{Factor} = \text{Cable Factor (dB)} - \text{Preamplifier (dB)}$

$\text{Level} = \text{Reading Level} + AF + \text{Factor} - 95.26$

$\text{Margin} = \text{Limit} - \text{Level}$



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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	30.284	0.0367	-2.5 to 2.5	Pass	
			3.89	18.952	0.0230	-2.5 to 2.5	Pass	
			4.48	20.954	0.0254	-2.5 to 2.5	Pass	
		-30	3.89	20.760	0.0252	-2.5 to 2.5	Pass	
		-20	3.89	23.181	0.0281	-2.5 to 2.5	Pass	
		-10	3.89	25.538	0.0310	-2.5 to 2.5	Pass	
		0	3.89	21.987	0.0267	-2.5 to 2.5	Pass	
		10	3.89	24.376	0.0296	-2.5 to 2.5	Pass	
		30	3.89	26.184	0.0318	-2.5 to 2.5	Pass	
		40	3.89	24.021	0.0291	-2.5 to 2.5	Pass	
		50	3.89	28.638	0.0347	-2.5 to 2.5	Pass	
		836.6	20	3.4	27.088	0.0324	-2.5 to 2.5	Pass
	3.89			22.923	0.0274	-2.5 to 2.5	Pass	
	4.48			25.151	0.0301	-2.5 to 2.5	Pass	
	-30		3.89	26.281	0.0314	-2.5 to 2.5	Pass	
	-20		3.89	24.279	0.0290	-2.5 to 2.5	Pass	
	-10		3.89	24.666	0.0295	-2.5 to 2.5	Pass	
	0		3.89	26.410	0.0316	-2.5 to 2.5	Pass	
	10		3.89	26.959	0.0322	-2.5 to 2.5	Pass	
	30		3.89	29.316	0.0350	-2.5 to 2.5	Pass	
	40		3.89	26.797	0.0320	-2.5 to 2.5	Pass	
	50		3.89	29.412	0.0352	-2.5 to 2.5	Pass	
	848.8		20	3.4	20.502	0.0242	-2.5 to 2.5	Pass
		3.89		20.695	0.0244	-2.5 to 2.5	Pass	
		4.48		24.925	0.0294	-2.5 to 2.5	Pass	
		-30	3.89	25.506	0.0300	-2.5 to 2.5	Pass	
		-20	3.89	27.088	0.0319	-2.5 to 2.5	Pass	
		-10	3.89	22.762	0.0268	-2.5 to 2.5	Pass	
		0	3.89	21.890	0.0258	-2.5 to 2.5	Pass	
		10	3.89	20.760	0.0245	-2.5 to 2.5	Pass	
		30	3.89	24.021	0.0283	-2.5 to 2.5	Pass	
		40	3.89	23.440	0.0276	-2.5 to 2.5	Pass	
		50	3.89	24.376	0.0287	-2.5 to 2.5	Pass	
		EGPRS	824.2	20	3.4	31.995	0.0388	-2.5 to 2.5
	3.89				31.350	0.0380	-2.5 to 2.5	Pass
	4.48				31.479	0.0382	-2.5 to 2.5	Pass
	-30			3.89	30.639	0.0372	-2.5 to 2.5	Pass
	-20			3.89	31.124	0.0378	-2.5 to 2.5	Pass
	-10			3.89	30.220	0.0367	-2.5 to 2.5	Pass
	0			3.89	28.638	0.0347	-2.5 to 2.5	Pass
	10			3.89	29.025	0.0352	-2.5 to 2.5	Pass
	30			3.89	28.993	0.0352	-2.5 to 2.5	Pass
	40			3.89	29.283	0.0355	-2.5 to 2.5	Pass



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836.6	50	3.89	31.382	0.0381	-2.5 to 2.5	Pass	
		3.4	31.156	0.0372	-2.5 to 2.5	Pass	
	20	3.89	32.770	0.0392	-2.5 to 2.5	Pass	
		4.48	41.197	0.0492	-2.5 to 2.5	Pass	
	-30	3.89	34.610	0.0414	-2.5 to 2.5	Pass	
	-20	3.89	33.545	0.0401	-2.5 to 2.5	Pass	
	-10	3.89	36.257	0.0433	-2.5 to 2.5	Pass	
	0	3.89	33.158	0.0396	-2.5 to 2.5	Pass	
	10	3.89	35.030	0.0419	-2.5 to 2.5	Pass	
	30	3.89	36.225	0.0433	-2.5 to 2.5	Pass	
	40	3.89	35.224	0.0421	-2.5 to 2.5	Pass	
	50	3.89	33.480	0.0400	-2.5 to 2.5	Pass	
	848.8	20	3.4	36.160	0.0426	-2.5 to 2.5	Pass
			3.89	32.544	0.0383	-2.5 to 2.5	Pass
			4.48	32.124	0.0378	-2.5 to 2.5	Pass
		-30	3.89	31.995	0.0377	-2.5 to 2.5	Pass
		-20	3.89	32.867	0.0387	-2.5 to 2.5	Pass
		-10	3.89	33.739	0.0397	-2.5 to 2.5	Pass
		0	3.89	30.672	0.0361	-2.5 to 2.5	Pass
10		3.89	30.865	0.0364	-2.5 to 2.5	Pass	
30		3.89	29.994	0.0353	-2.5 to 2.5	Pass	
40		3.89	31.834	0.0375	-2.5 to 2.5	Pass	
50	3.89	32.480	0.0383	-2.5 to 2.5	Pass		

---End of Attachment---



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