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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	32.73	-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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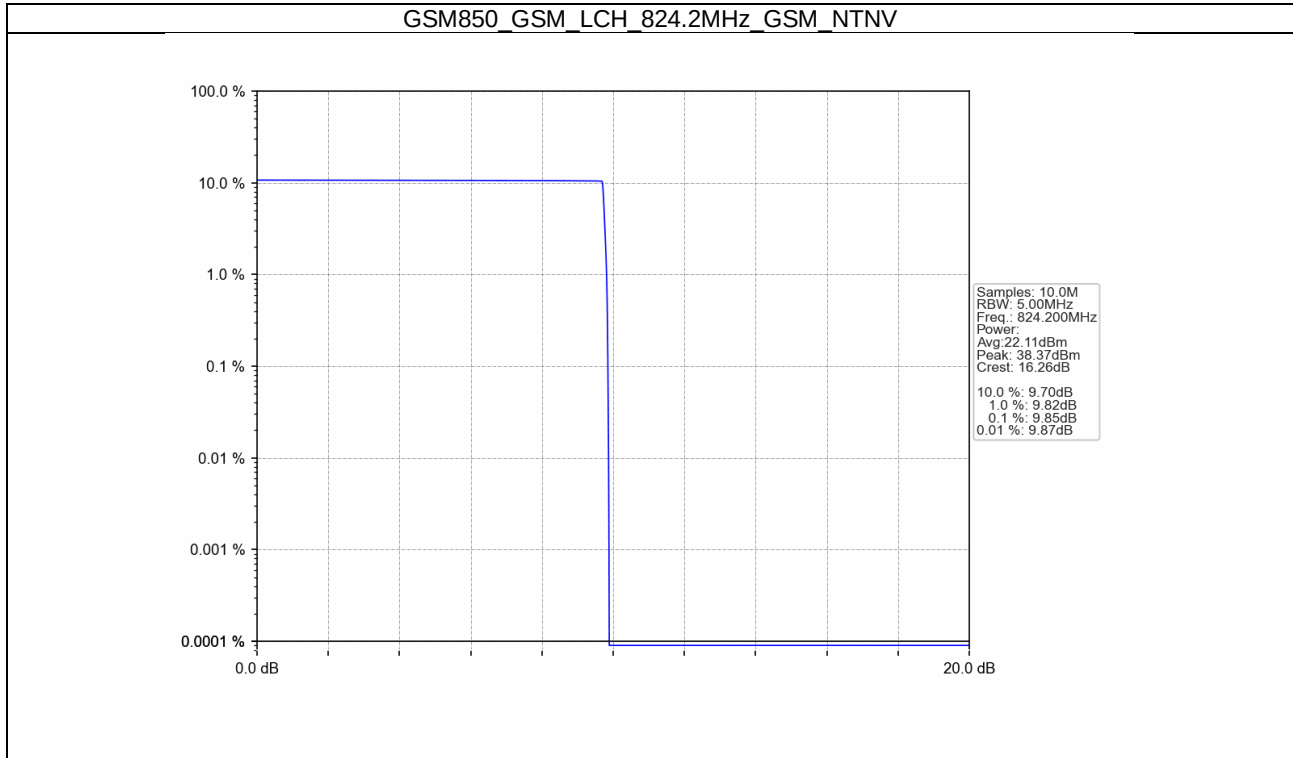
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Test Graph



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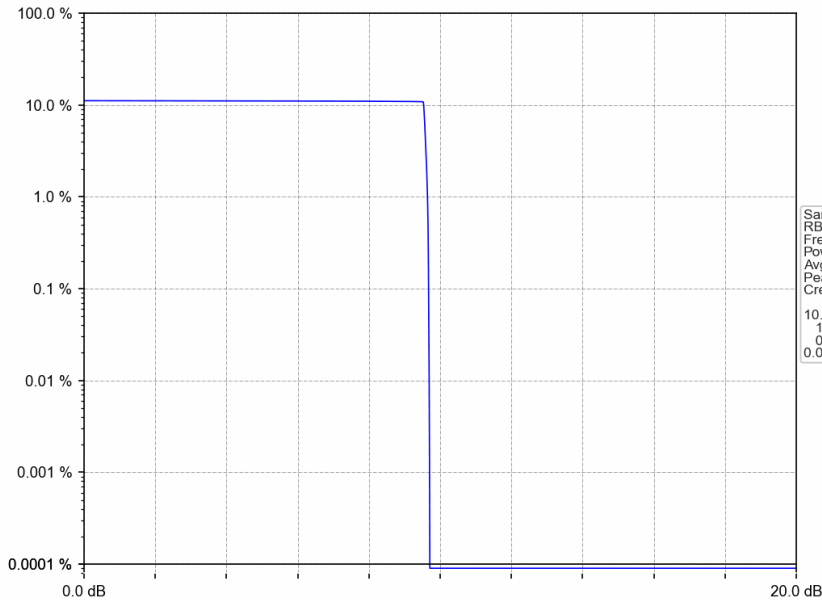
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GSM850 GSM_MCH 836.6MHz GSM_NTNV



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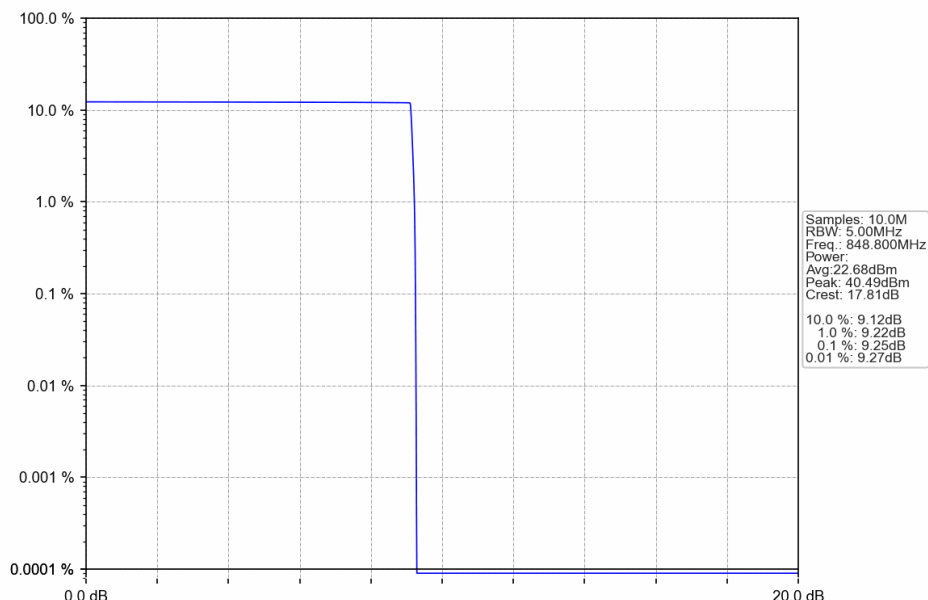
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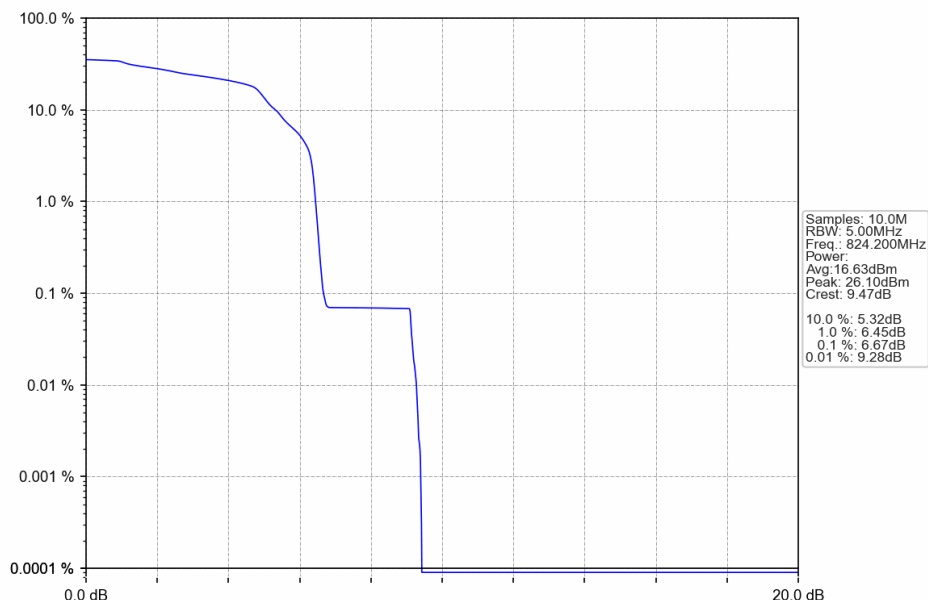
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GSM850_GSM_HCH_848.8MHz_GSM_NTNV



GSM850_EGPRS_LCH_824.2MHz_4 TX Slots_NTNV



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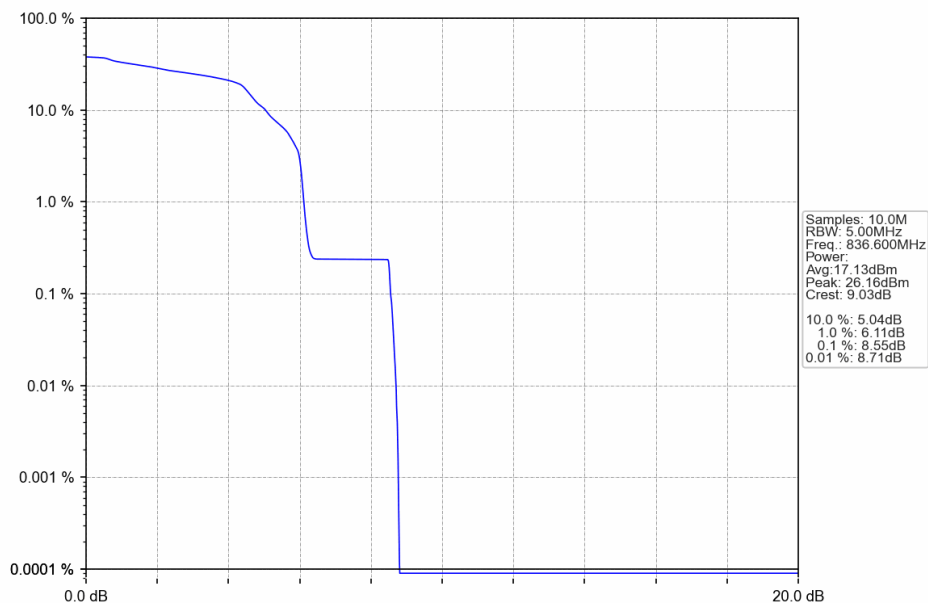
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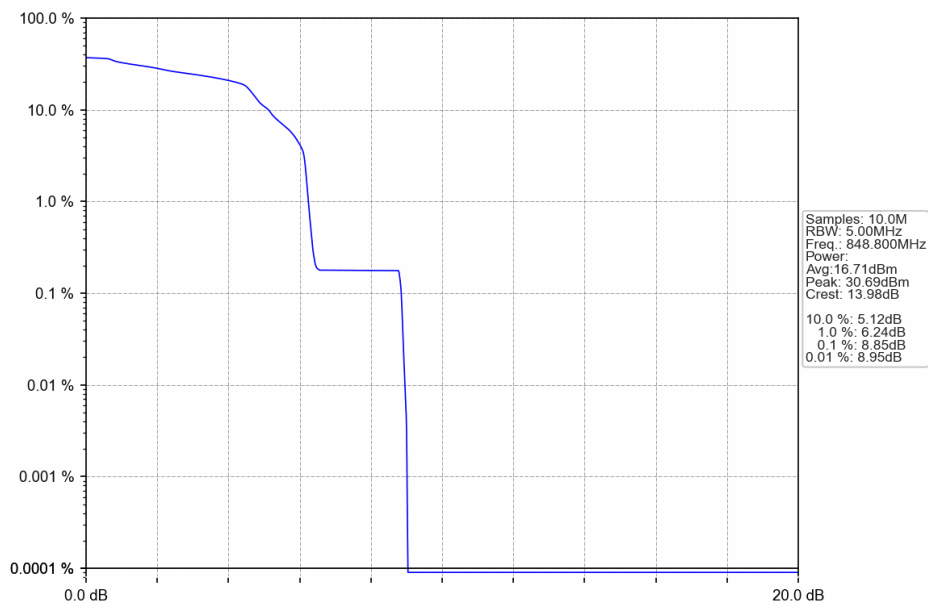
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GSM850_EGPRS_MCH_836.6MHz_4 TX Slots_NTNV



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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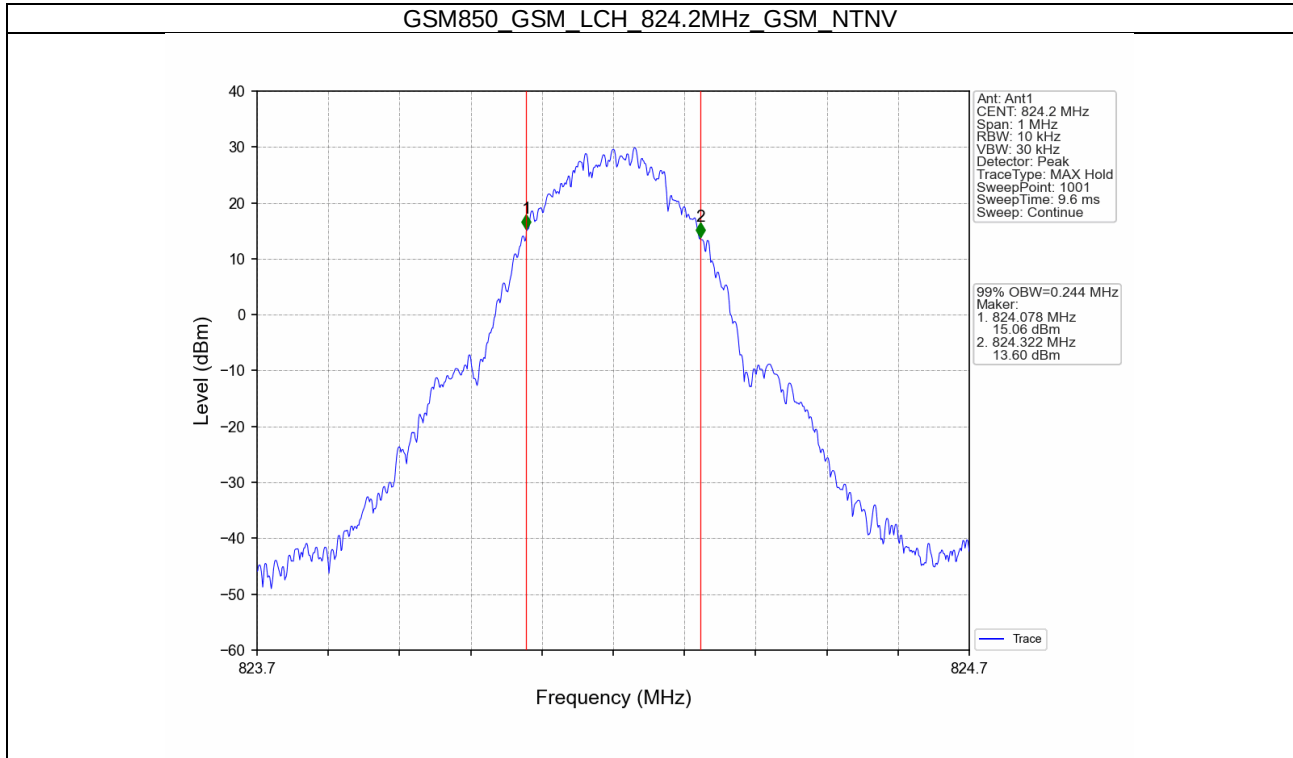
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Test Graph



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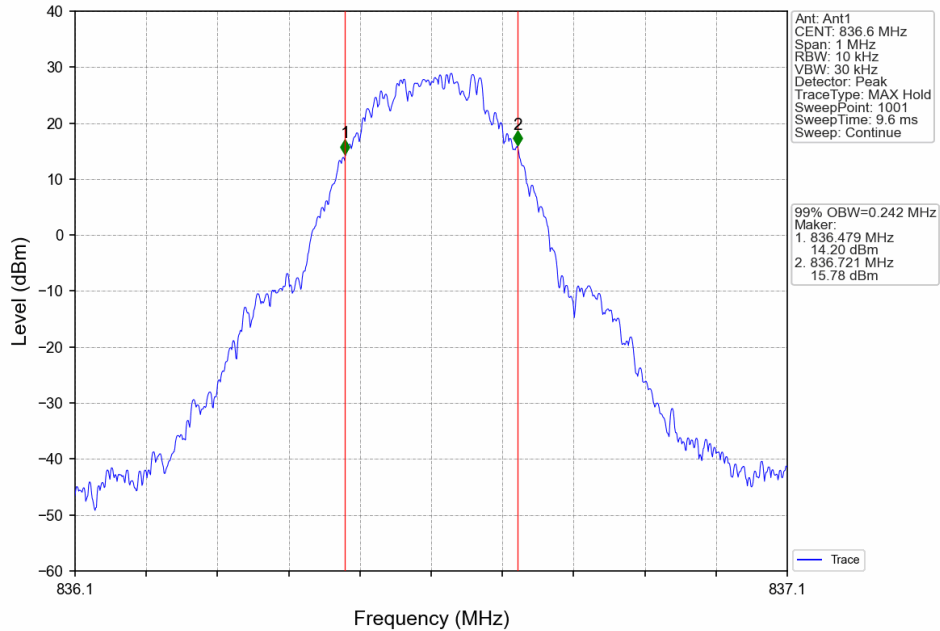
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GSM850 GSM_MCH_836.6MHz GSM_NTNV



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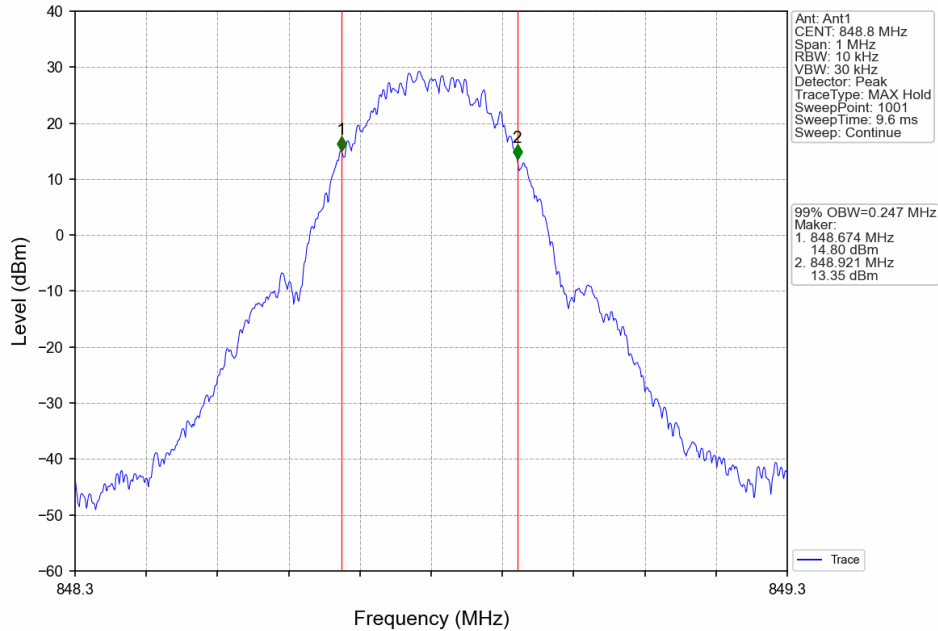
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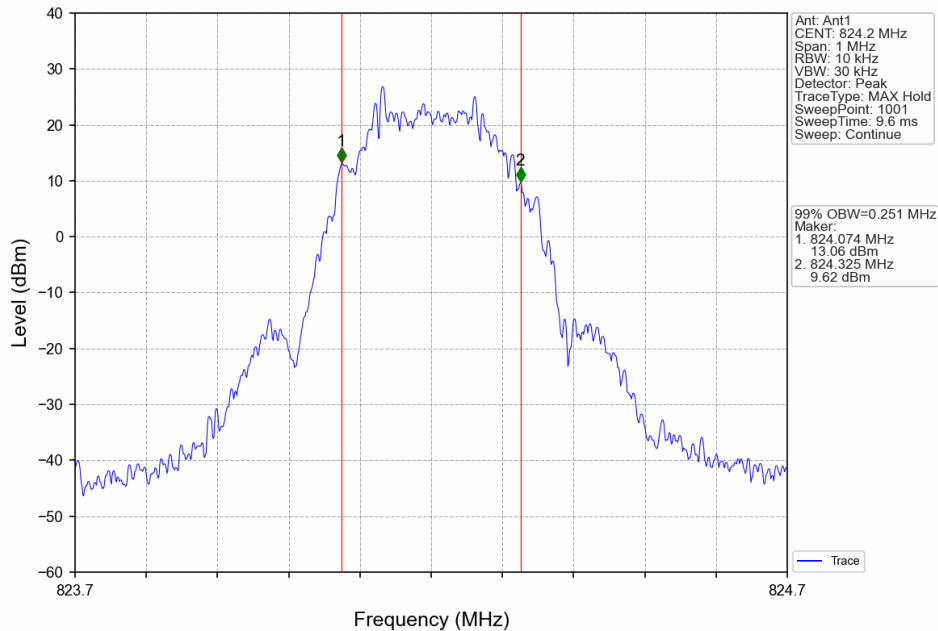
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GSM850 GSM_HCH_848.8MHz GSM_NTNV



GSM850 EGPRS_LCH_824.2MHz_1 TX Slot NTN



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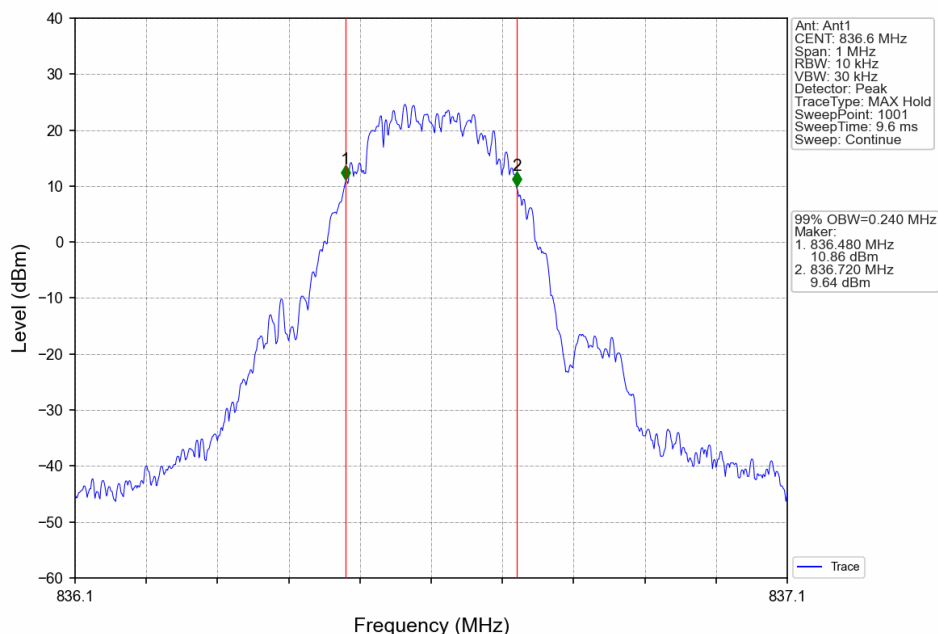
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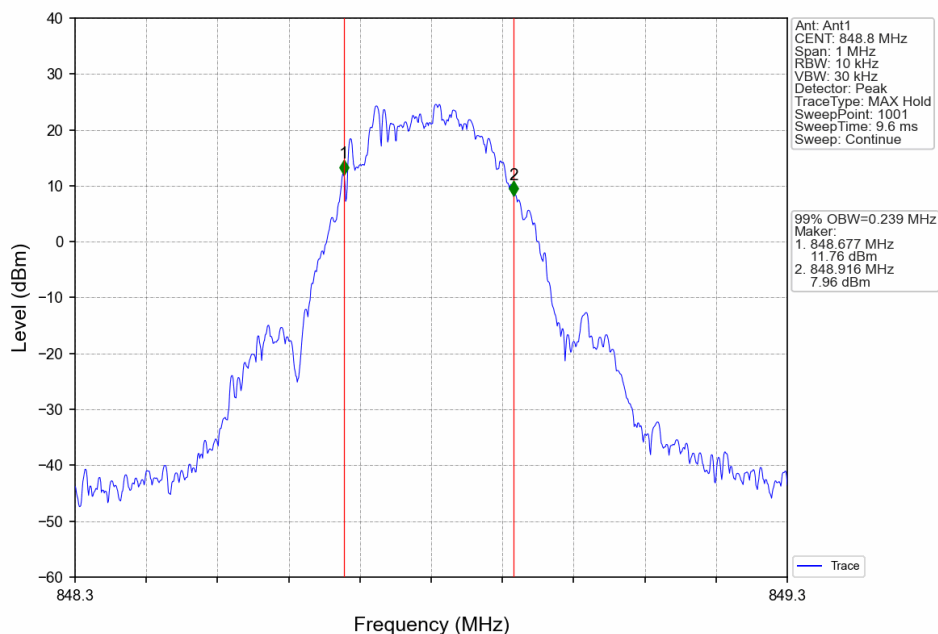
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GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV



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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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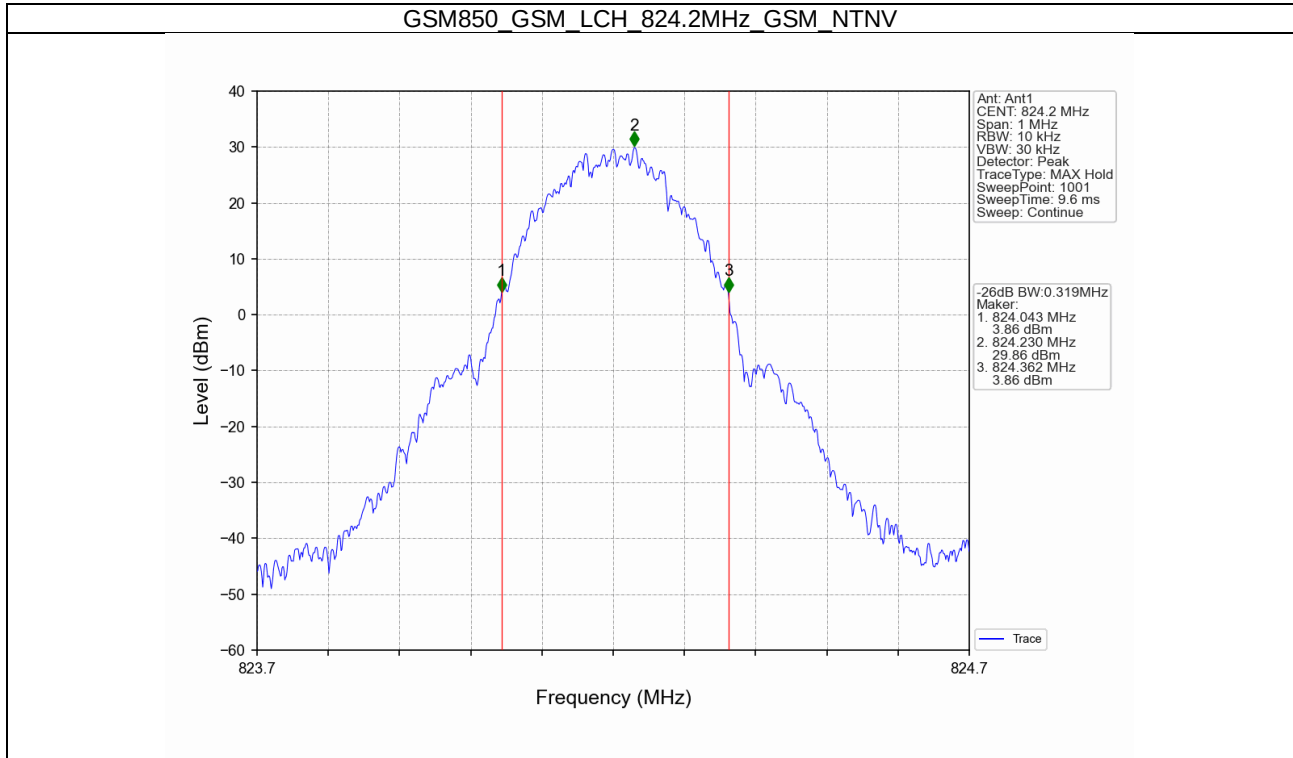
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Test Graph



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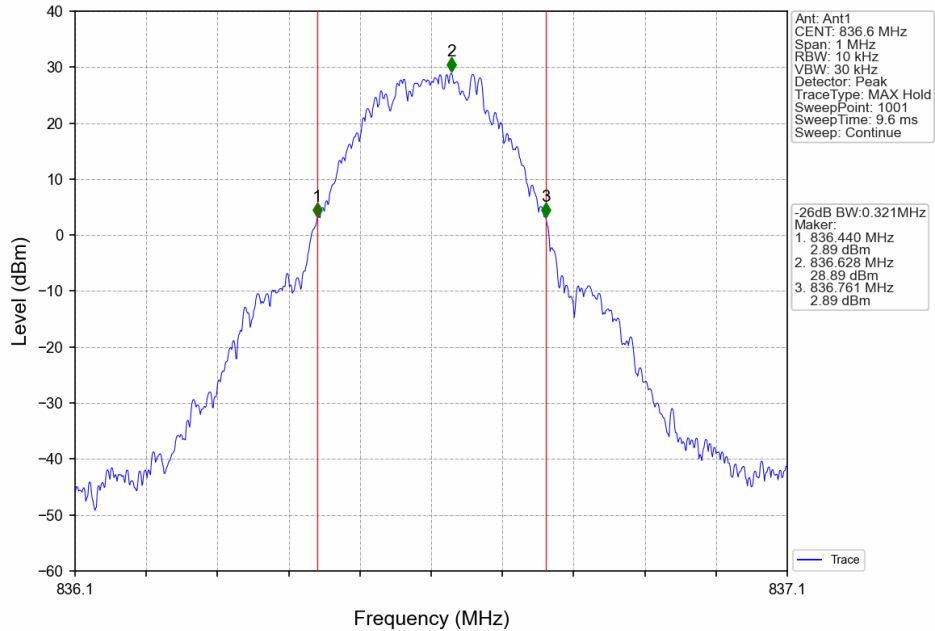
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GSM850 GSM_MCH_836.6MHz GSM_NTNV



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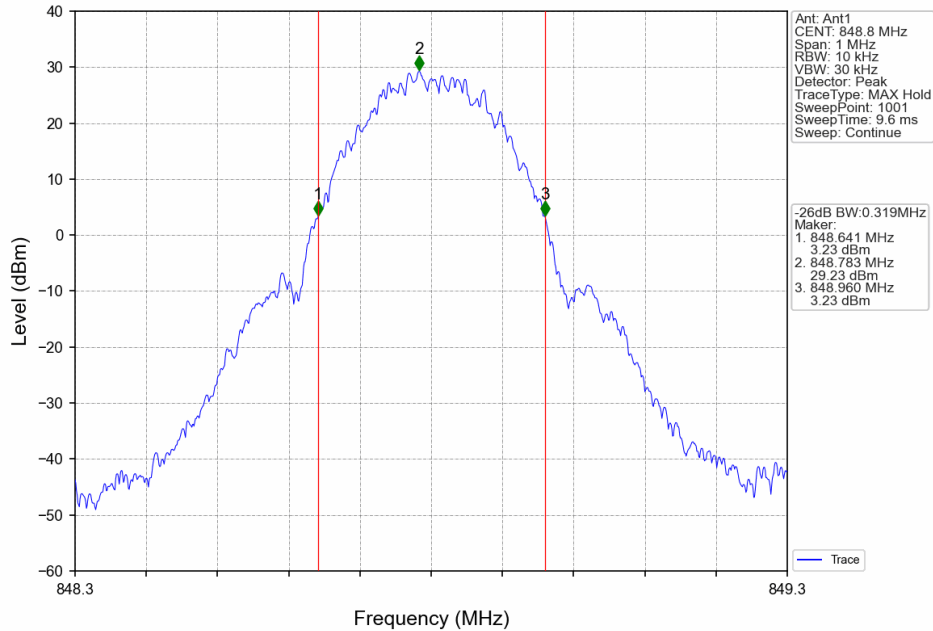
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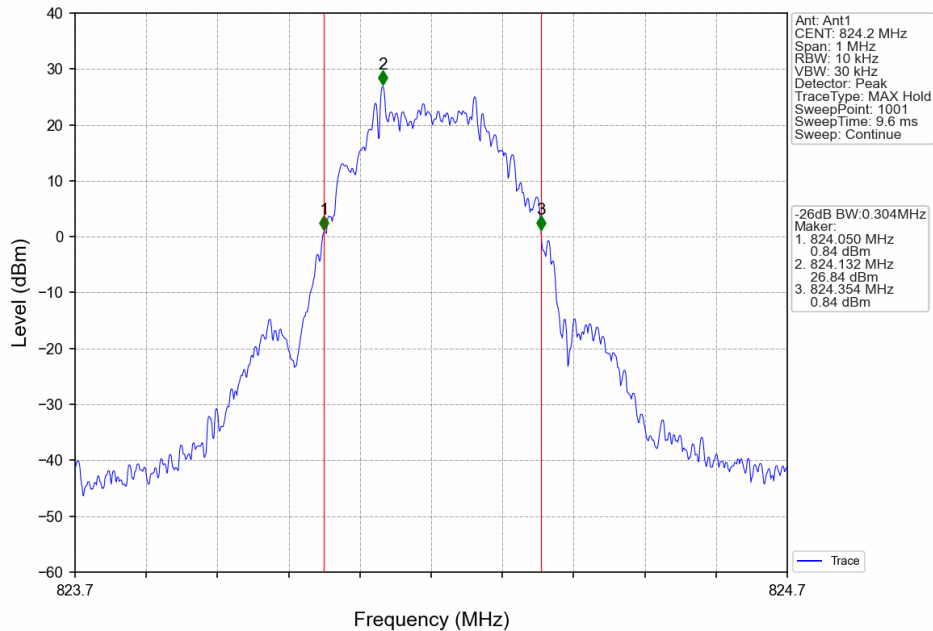
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GSM850 GSM_HCH 848.8MHz GSM_NTNV



GSM850 EGPRS_LCH 824.2MHz 1 TX Slot NTN



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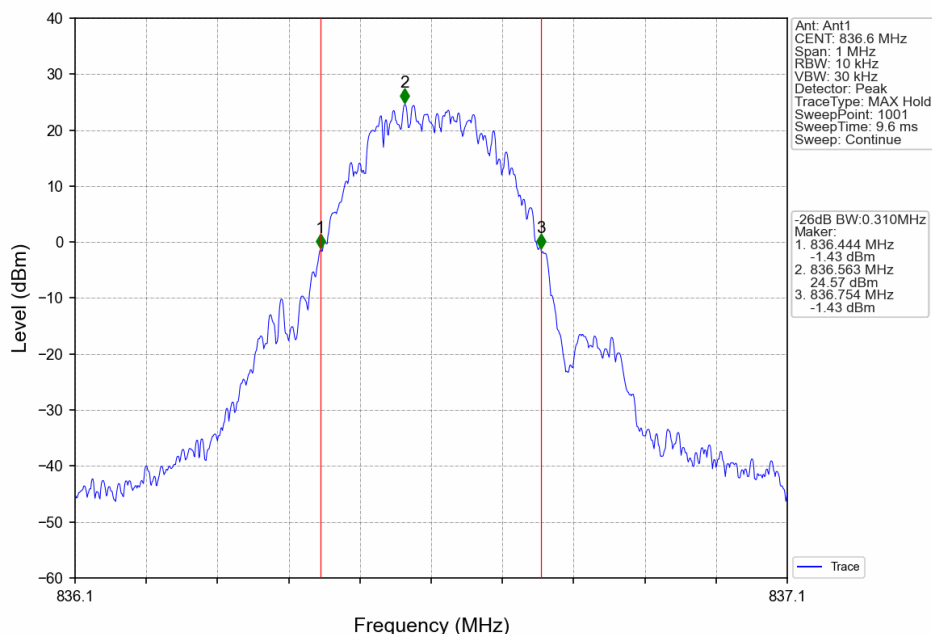
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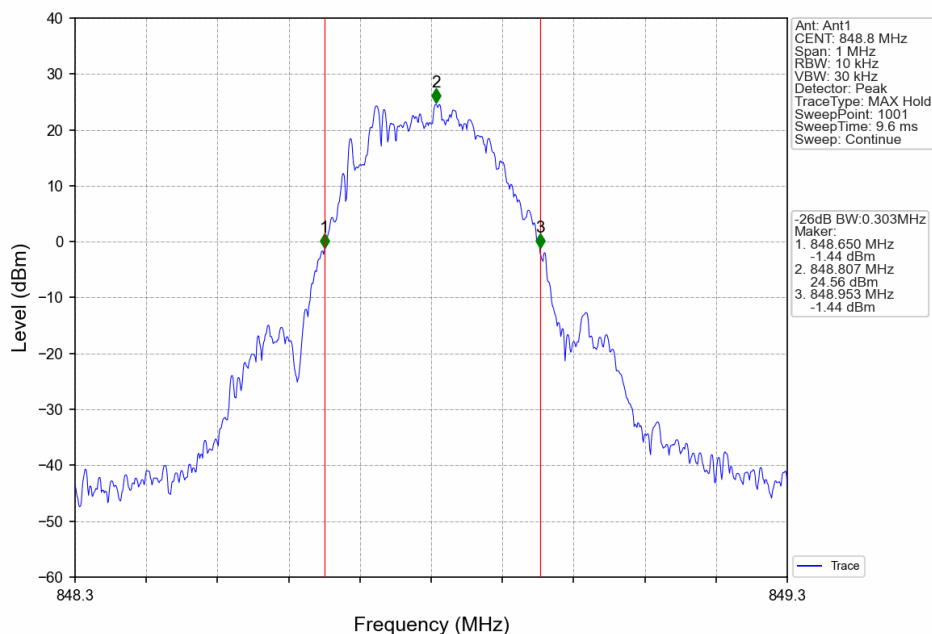
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GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV



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Spurious Emission & Band Edge

GSM850

Test Result

Band: GSM850					
ENV	Mode		Frequency (MHz)	Spurious Emission	
	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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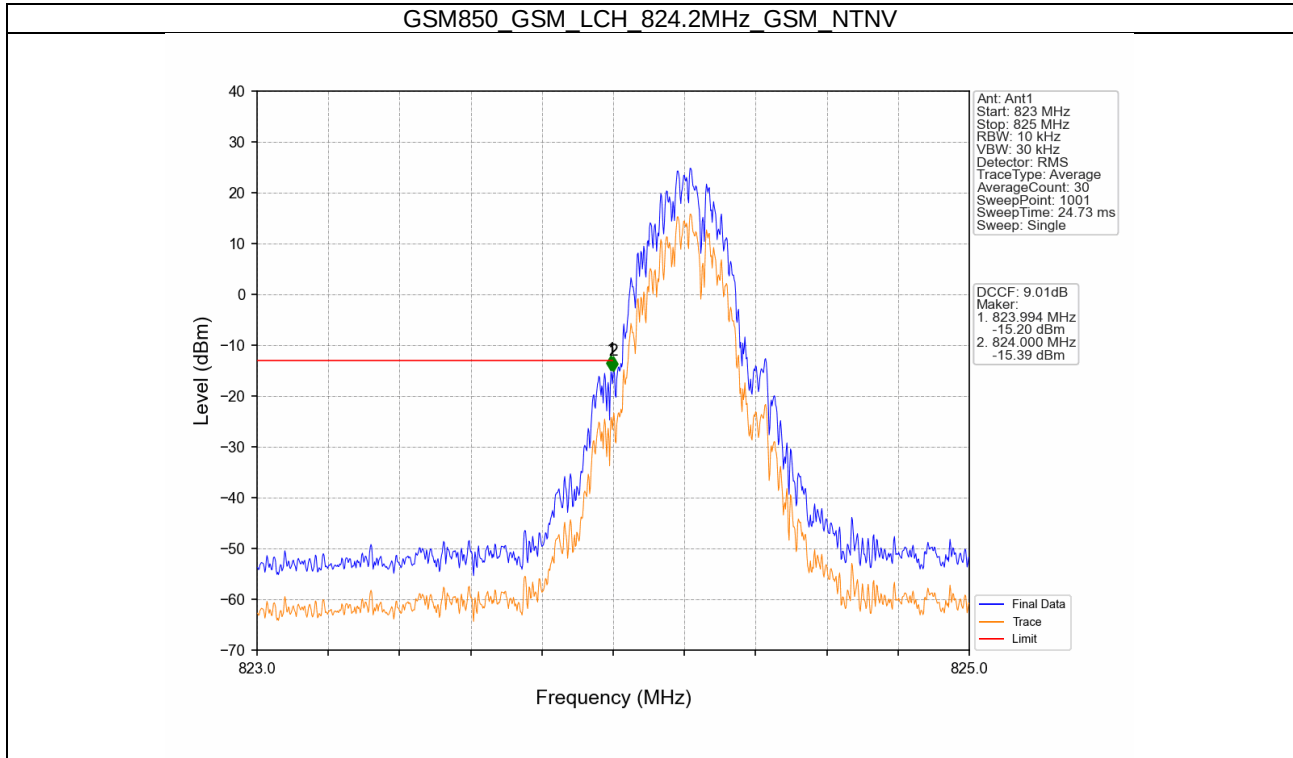
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Test Graph



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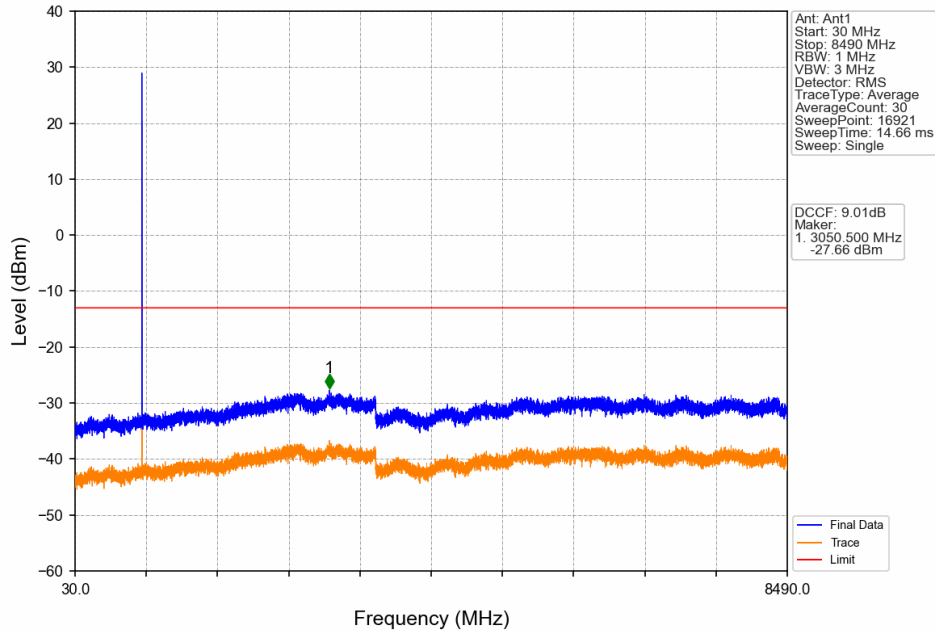
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GSM850 GSM LCH 824.2MHz GSM NTN



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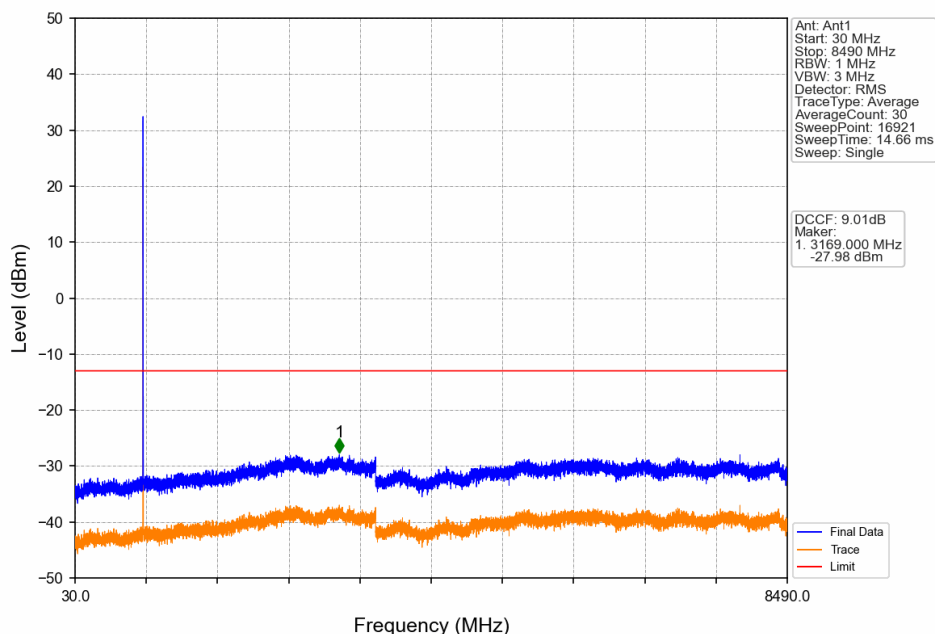
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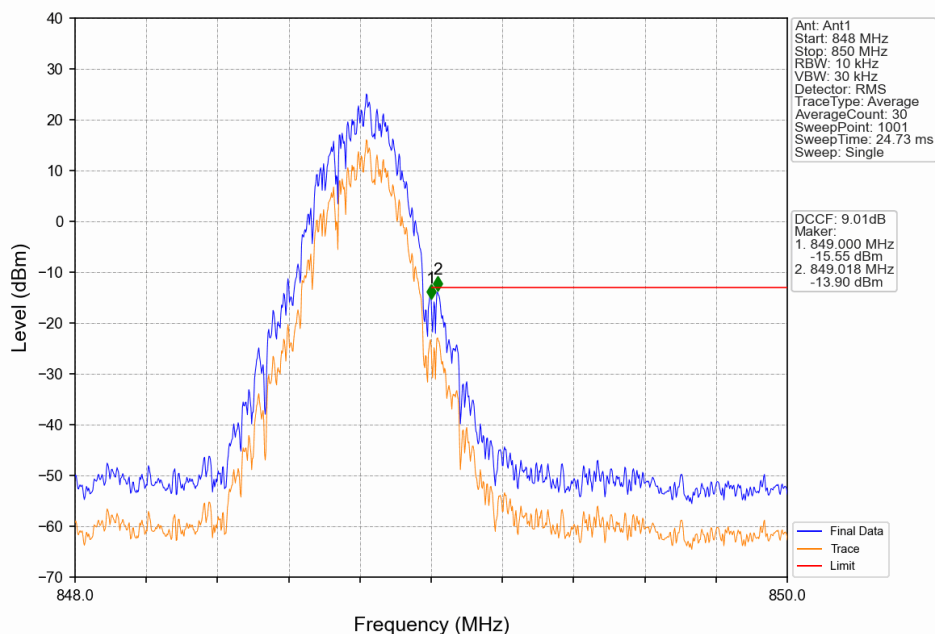
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GSM850 GSM_MCH_836.6MHz GSM_NTNV



GSM850 GSM_HCH_848.8MHz GSM_NTNV



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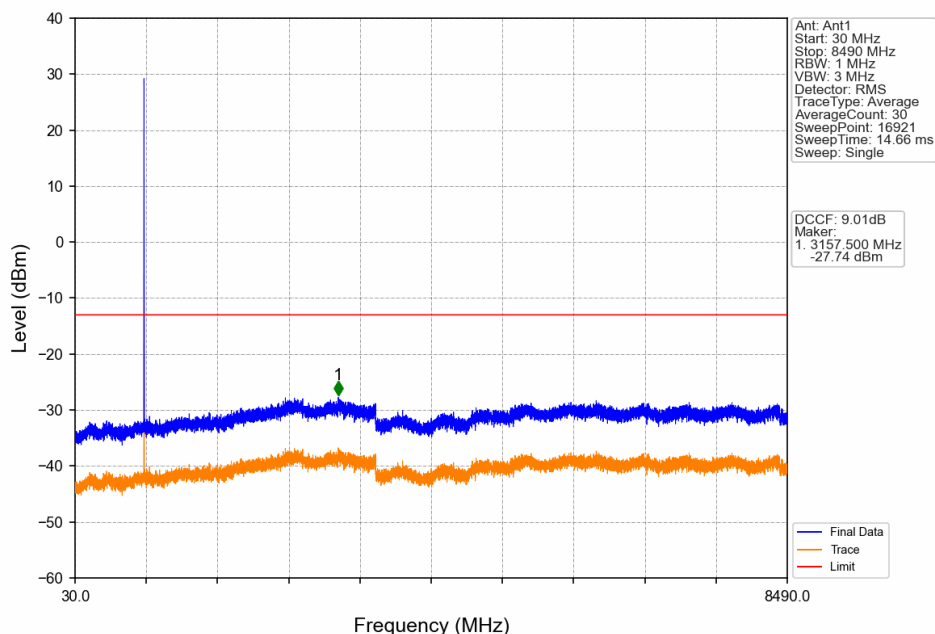
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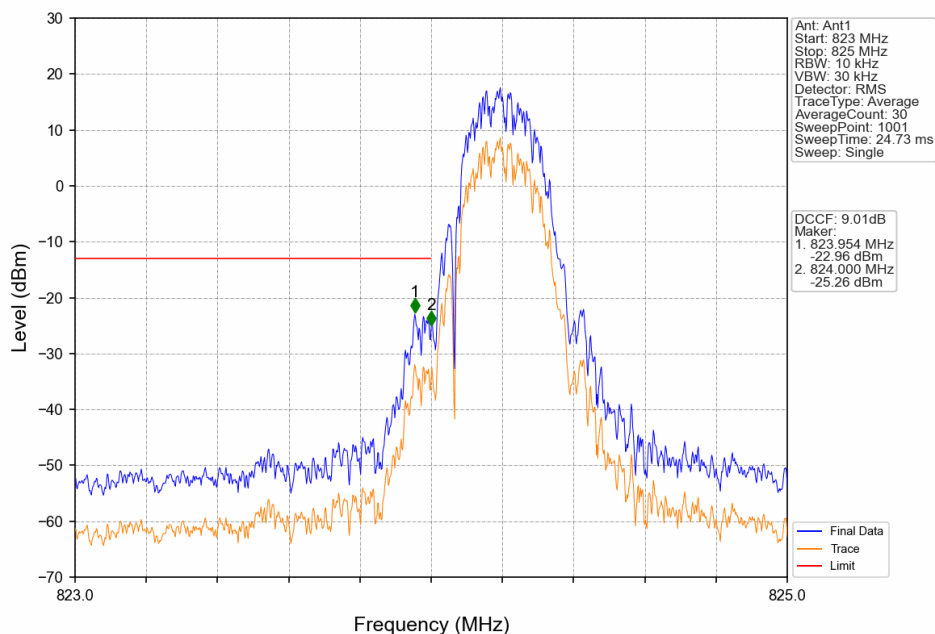
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GSM850 GSM_HCH 848.8MHz GSM_NTNV



GSM850 EGPRS_LCH 824.2MHz 1 TX Slot NTN



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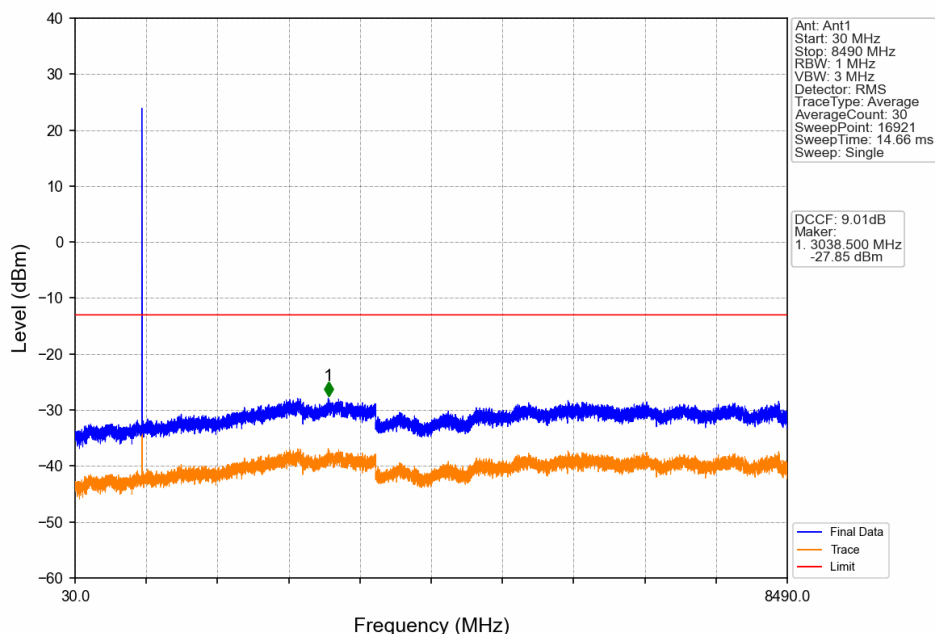
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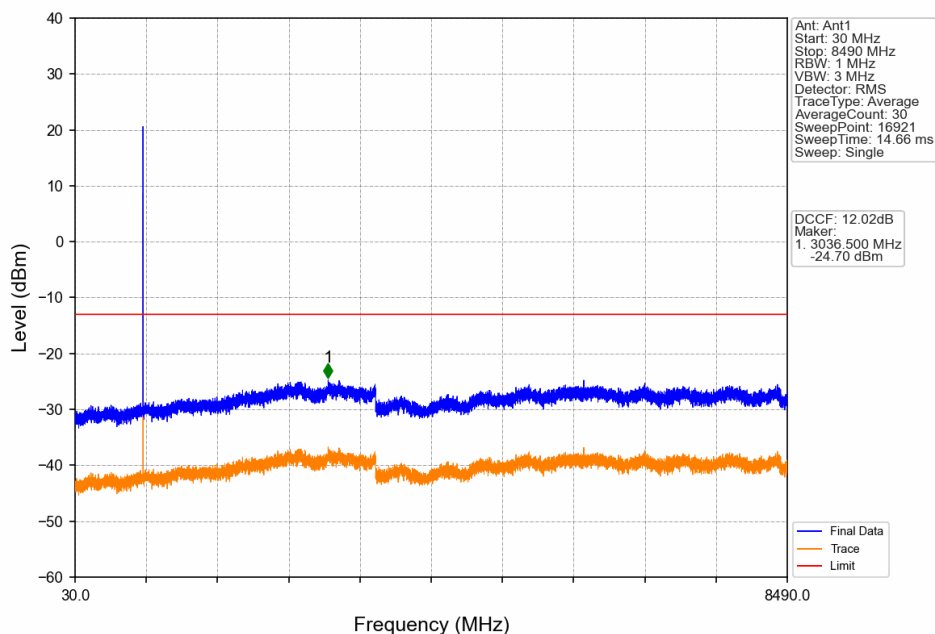
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GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



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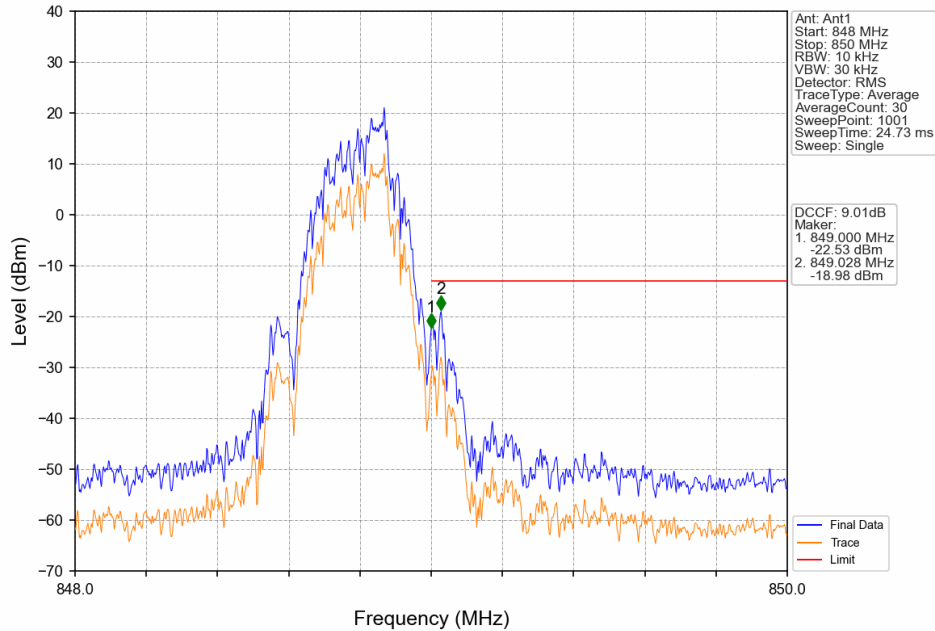
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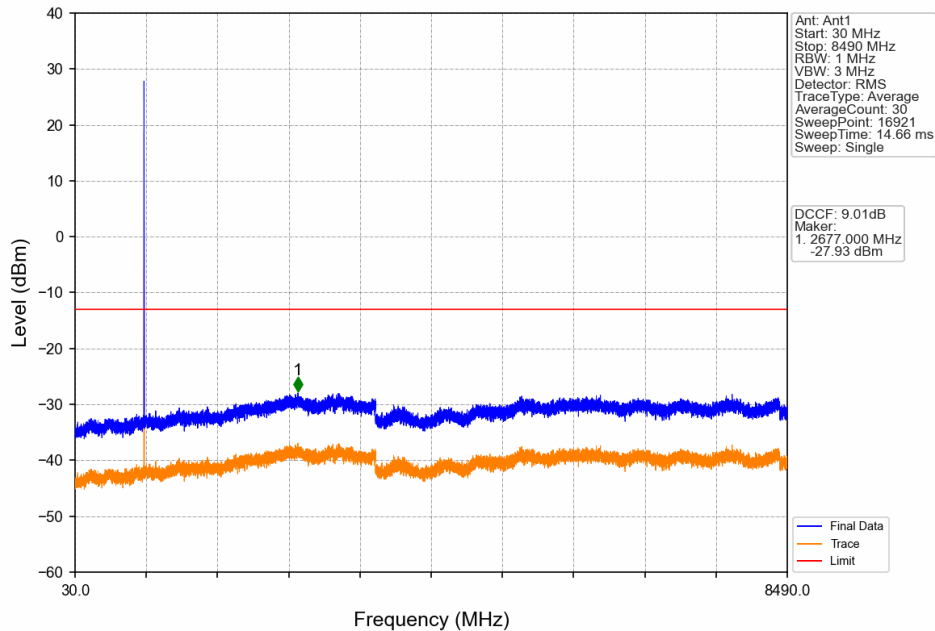
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GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV



GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV



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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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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:

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

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

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

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


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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	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
			4.48	33.836	0.0404	-2.5 to 2.5	Pass
		-30	3.89	33.642	0.0402	-2.5 to 2.5	Pass
		-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
	848.8	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
		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
			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

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