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Appendix B.1

GSM 850



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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

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1. Effective (Isotropic) Radiated Power Output Data

1.1 GSM850_ERP

1.1.1 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	33.10	-4.10	26.85	<=38.45	Pass		
			836.6	33.27	-4.10	27.02	<=38.45	Pass		
			848.8	33.12	-4.10	26.87	<=38.45	Pass		
	GPRS	1 TX Slot	824.2	33.09	-4.10	26.84	<=38.45	Pass		
			2 TX Slots	824.2	30.86	-4.10	24.61	<=38.45	Pass	
			3 TX Slots	824.2	29.05	-4.10	22.80	<=38.45	Pass	
			4 TX Slots	824.2	27.08	-4.10	20.83	<=38.45	Pass	
		2 TX Slots	836.6	33.22	-4.10	26.97	<=38.45	Pass		
			836.6	31.01	-4.10	24.76	<=38.45	Pass		
			3 TX Slots	836.6	29.21	-4.10	22.96	<=38.45	Pass	
			4 TX Slots	836.6	27.24	-4.10	20.99	<=38.45	Pass	
		3 TX Slots	848.8	33.06	-4.10	26.81	<=38.45	Pass		
			2 TX Slots	848.8	30.85	-4.10	24.60	<=38.45	Pass	
			3 TX Slots	848.8	29.04	-4.10	22.79	<=38.45	Pass	
			4 TX Slots	848.8	27.07	-4.10	20.82	<=38.45	Pass	
		EGPRS	1 TX Slot	824.2	27.21	-4.10	20.96	<=38.45	Pass	
				2 TX Slots	824.2	24.87	-4.10	18.62	<=38.45	Pass
				3 TX Slots	824.2	25.24	-4.10	18.99	<=38.45	Pass
				4 TX Slots	824.2	23.54	-4.10	17.29	<=38.45	Pass
	2 TX Slots		836.6	26.94	-4.10	20.69	<=38.45	Pass		
			836.6	24.78	-4.10	18.53	<=38.45	Pass		
			3 TX Slots	836.6	23.30	-4.10	17.05	<=38.45	Pass	
			4 TX Slots	836.6	21.90	-4.10	15.65	<=38.45	Pass	
	3 TX Slots		848.8	26.84	-4.10	20.59	<=38.45	Pass		
			2 TX Slots	848.8	24.59	-4.10	18.34	<=38.45	Pass	
			3 TX Slots	848.8	23.11	-4.10	16.86	<=38.45	Pass	
			4 TX Slots	848.8	21.63	-4.10	15.38	<=38.45	Pass	

Note1: ERP=Conducted Power+Antenna Gain-2.15



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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	3.6	5.682	0.0069	-2.5 to 2.5	Pass
			3.84	2.938	0.0036	-2.5 to 2.5	Pass
			4.25	-3.455	-0.0042	-2.5 to 2.5	Pass
		-30	3.84	-3.519	-0.0043	-2.5 to 2.5	Pass
		-20	3.84	-1.388	-0.0017	-2.5 to 2.5	Pass
		-10	3.84	-1.647	-0.0020	-2.5 to 2.5	Pass
		0	3.84	-1.517	-0.0018	-2.5 to 2.5	Pass
		10	3.84	-3.874	-0.0047	-2.5 to 2.5	Pass
		30	3.84	1.679	0.0020	-2.5 to 2.5	Pass
		40	3.84	-9.653	-0.0117	-2.5 to 2.5	Pass
	50	3.84	-8.039	-0.0098	-2.5 to 2.5	Pass	
	836.6	20	3.6	-3.745	-0.0045	-2.5 to 2.5	Pass
			3.84	-2.938	-0.0035	-2.5 to 2.5	Pass
			4.25	-5.392	-0.0064	-2.5 to 2.5	Pass
		-30	3.84	-1.033	-0.0012	-2.5 to 2.5	Pass
		-20	3.84	-1.485	-0.0018	-2.5 to 2.5	Pass
		-10	3.84	-4.875	-0.0058	-2.5 to 2.5	Pass
		0	3.84	-3.777	-0.0045	-2.5 to 2.5	Pass
		10	3.84	-3.810	-0.0046	-2.5 to 2.5	Pass
		30	3.84	-1.324	-0.0016	-2.5 to 2.5	Pass
		40	3.84	-4.811	-0.0058	-2.5 to 2.5	Pass
	50	3.84	-1.550	-0.0019	-2.5 to 2.5	Pass	
	848.8	20	3.6	-2.486	-0.0029	-2.5 to 2.5	Pass
			3.84	-1.065	-0.0013	-2.5 to 2.5	Pass
			4.25	-0.484	-0.0006	-2.5 to 2.5	Pass
		-30	3.84	-2.712	-0.0032	-2.5 to 2.5	Pass
		-20	3.84	0.452	0.0005	-2.5 to 2.5	Pass
		-10	3.84	-1.485	-0.0017	-2.5 to 2.5	Pass
		0	3.84	-2.454	-0.0029	-2.5 to 2.5	Pass
		10	3.84	1.453	0.0017	-2.5 to 2.5	Pass
30		3.84	-0.065	-0.0001	-2.5 to 2.5	Pass	
40		3.84	0.226	0.0003	-2.5 to 2.5	Pass	
50	3.84	1.324	0.0016	-2.5 to 2.5	Pass		
GPRS	824.2	20	3.6	0.969	0.0012	-2.5 to 2.5	Pass
			3.84	-3.293	-0.0040	-2.5 to 2.5	Pass
			4.25	-5.198	-0.0063	-2.5 to 2.5	Pass
		-30	3.84	-0.678	-0.0008	-2.5 to 2.5	Pass
		-20	3.84	-5.295	-0.0064	-2.5 to 2.5	Pass
		-10	3.84	-2.712	-0.0033	-2.5 to 2.5	Pass



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EGPRS	836.6	0	3.84	-4.972	-0.0060	-2.5 to 2.5	Pass
		10	3.84	-5.456	-0.0066	-2.5 to 2.5	Pass
		30	3.84	-6.522	-0.0079	-2.5 to 2.5	Pass
		40	3.84	-7.781	-0.0094	-2.5 to 2.5	Pass
		50	3.84	-6.909	-0.0084	-2.5 to 2.5	Pass
	836.6	20	3.6	-5.618	-0.0067	-2.5 to 2.5	Pass
			3.84	-9.621	-0.0115	-2.5 to 2.5	Pass
			4.25	-5.230	-0.0063	-2.5 to 2.5	Pass
		-30	3.84	-8.233	-0.0098	-2.5 to 2.5	Pass
		-20	3.84	-6.231	-0.0074	-2.5 to 2.5	Pass
		-10	3.84	-6.554	-0.0078	-2.5 to 2.5	Pass
		0	3.84	-4.681	-0.0056	-2.5 to 2.5	Pass
		10	3.84	-4.003	-0.0048	-2.5 to 2.5	Pass
		30	3.84	-6.296	-0.0075	-2.5 to 2.5	Pass
		40	3.84	-2.518	-0.0030	-2.5 to 2.5	Pass
	50	3.84	-3.551	-0.0042	-2.5 to 2.5	Pass	
	848.8	20	3.6	-2.260	-0.0027	-2.5 to 2.5	Pass
			3.84	-4.003	-0.0047	-2.5 to 2.5	Pass
			4.25	-5.618	-0.0066	-2.5 to 2.5	Pass
		-30	3.84	-2.970	-0.0035	-2.5 to 2.5	Pass
		-20	3.84	-3.810	-0.0045	-2.5 to 2.5	Pass
		-10	3.84	-7.297	-0.0086	-2.5 to 2.5	Pass
		0	3.84	-5.392	-0.0064	-2.5 to 2.5	Pass
		10	3.84	-3.099	-0.0037	-2.5 to 2.5	Pass
		30	3.84	-5.876	-0.0069	-2.5 to 2.5	Pass
		40	3.84	-5.198	-0.0061	-2.5 to 2.5	Pass
	50	3.84	-6.554	-0.0077	-2.5 to 2.5	Pass	
	824.2	20	3.6	-7.135	-0.0087	-2.5 to 2.5	Pass
			3.84	-8.136	-0.0099	-2.5 to 2.5	Pass
			4.25	-5.133	-0.0062	-2.5 to 2.5	Pass
		-30	3.84	-4.552	-0.0055	-2.5 to 2.5	Pass
		-20	3.84	-6.522	-0.0079	-2.5 to 2.5	Pass
		-10	3.84	-10.751	-0.0130	-2.5 to 2.5	Pass
		0	3.84	-7.103	-0.0086	-2.5 to 2.5	Pass
		10	3.84	-9.815	-0.0119	-2.5 to 2.5	Pass
30		3.84	-8.394	-0.0102	-2.5 to 2.5	Pass	
40		3.84	-6.877	-0.0083	-2.5 to 2.5	Pass	
50	3.84	-9.008	-0.0109	-2.5 to 2.5	Pass		
836.6	20	3.6	-10.138	-0.0121	-2.5 to 2.5	Pass	
		3.84	-4.326	-0.0052	-2.5 to 2.5	Pass	
		4.25	-4.133	-0.0049	-2.5 to 2.5	Pass	
	-30	3.84	-7.813	-0.0093	-2.5 to 2.5	Pass	
	-20	3.84	-7.297	-0.0087	-2.5 to 2.5	Pass	
	-10	3.84	-2.712	-0.0032	-2.5 to 2.5	Pass	
	0	3.84	-5.198	-0.0062	-2.5 to 2.5	Pass	
	10	3.84	-6.554	-0.0078	-2.5 to 2.5	Pass	
	30	3.84	-5.715	-0.0068	-2.5 to 2.5	Pass	
	40	3.84	-8.459	-0.0101	-2.5 to 2.5	Pass	
50	3.84	-5.133	-0.0061	-2.5 to 2.5	Pass		



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848.8	20	3.6	-4.649	-0.0055	-2.5 to 2.5	Pass
		3.84	-7.297	-0.0086	-2.5 to 2.5	Pass
		4.25	-7.587	-0.0089	-2.5 to 2.5	Pass
	-30	3.84	-6.586	-0.0078	-2.5 to 2.5	Pass
	-20	3.84	-6.619	-0.0078	-2.5 to 2.5	Pass
	-10	3.84	-7.910	-0.0093	-2.5 to 2.5	Pass
	0	3.84	-4.972	-0.0059	-2.5 to 2.5	Pass
	10	3.84	-7.006	-0.0083	-2.5 to 2.5	Pass
	30	3.84	-6.489	-0.0076	-2.5 to 2.5	Pass
	40	3.84	-6.393	-0.0075	-2.5 to 2.5	Pass
50	3.84	-8.168	-0.0096	-2.5 to 2.5	Pass	



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3. 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	68.52	-49.83	25.29	-51.27	-13.00	38.27	Horizontal
2	2472.6	64.25	-49.06	27.27	-52.80	-13.00	39.80	Horizontal
3	3296.8	50.42	-48.63	28.62	-64.85	-13.00	51.85	Horizontal
4	4121	44.48	-48.28	29.62	-69.44	-13.00	56.44	Horizontal
5	4945.2	44.24	-48.07	31.37	-67.73	-13.00	54.73	Horizontal
6	5769.4	44.69	-47.65	32.75	-65.47	-13.00	52.47	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.4	68.40	-49.83	25.29	-51.39	-13.00	38.39	Vertical
2	2472.6	57.61	-49.06	27.27	-59.44	-13.00	46.44	Vertical
3	3296.8	48.72	-48.63	28.62	-66.55	-13.00	53.55	Vertical
4	4121	44.74	-48.28	29.62	-69.18	-13.00	56.18	Vertical
5	4945.2	45.01	-48.07	31.37	-66.96	-13.00	53.96	Vertical
6	5769.4	44.80	-47.65	32.75	-65.36	-13.00	52.36	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	46.59	-49.78	25.39	-73.06	-13.00	60.06	Horizontal
2	2509.2	45.81	-48.93	27.32	-71.05	-13.00	58.05	Horizontal
3	3345.6	44.99	-48.66	28.64	-70.29	-13.00	57.29	Horizontal
4	4182	44.09	-48.34	29.73	-69.78	-13.00	56.78	Horizontal
5	5018.4	44.11	-47.95	31.54	-67.56	-13.00	54.56	Horizontal
6	5854.8	44.98	-47.33	32.77	-64.84	-13.00	51.84	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.8	46.30	-49.78	25.39	-73.35	-13.00	60.35	Vertical
2	2509.2	45.85	-48.93	27.32	-71.01	-13.00	58.01	Vertical
3	3345.6	45.33	-48.66	28.64	-69.95	-13.00	56.95	Vertical
4	4182	44.84	-48.34	29.73	-69.03	-13.00	56.03	Vertical
5	5018.4	44.34	-47.95	31.54	-67.33	-13.00	54.33	Vertical
6	5854.8	44.91	-47.33	32.77	-64.91	-13.00	51.91	Vertical



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Report No.: SEWM2311000456RG01
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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	46.91	-49.72	25.49	-72.58	-13.00	59.58	Horizontal
2	2546.4	46.51	-49.03	27.41	-70.36	-13.00	57.36	Horizontal
3	3395.2	45.84	-48.69	28.66	-69.45	-13.00	56.45	Horizontal
4	4244	44.56	-48.21	29.84	-69.08	-13.00	56.08	Horizontal
5	5092.8	44.76	-47.92	31.72	-66.70	-13.00	53.70	Horizontal
6	5941.6	45.31	-47.26	32.79	-64.42	-13.00	51.42	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.6	46.68	-49.72	25.49	-72.81	-13.00	59.81	Vertical
2	2546.4	47.09	-49.03	27.41	-69.78	-13.00	56.78	Vertical
3	3395.2	46.34	-48.69	28.66	-68.95	-13.00	55.95	Vertical
4	4244	44.29	-48.21	29.84	-69.35	-13.00	56.35	Vertical
5	5092.8	44.83	-47.92	31.72	-66.63	-13.00	53.63	Vertical
6	5941.6	45.45	-47.26	32.79	-64.28	-13.00	51.28	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

2) All antennas of RSE are tested, and only the worst data is presented.



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4. 99% & 26dB Bandwidth

4.1 GSM850_OBW

4.1.1 Test Result

Band: GSM850						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	0.243	/	Pass
			836.6	0.241	/	Pass
			848.8	0.254	/	Pass
	GPRS	1 TX Slot	824.2	0.252	/	Pass
			836.6	0.241	/	Pass
			848.8	0.250	/	Pass
	EGPRS	1 TX Slot	824.2	0.248	/	Pass
			836.6	0.244	/	Pass
			848.8	0.238	/	Pass



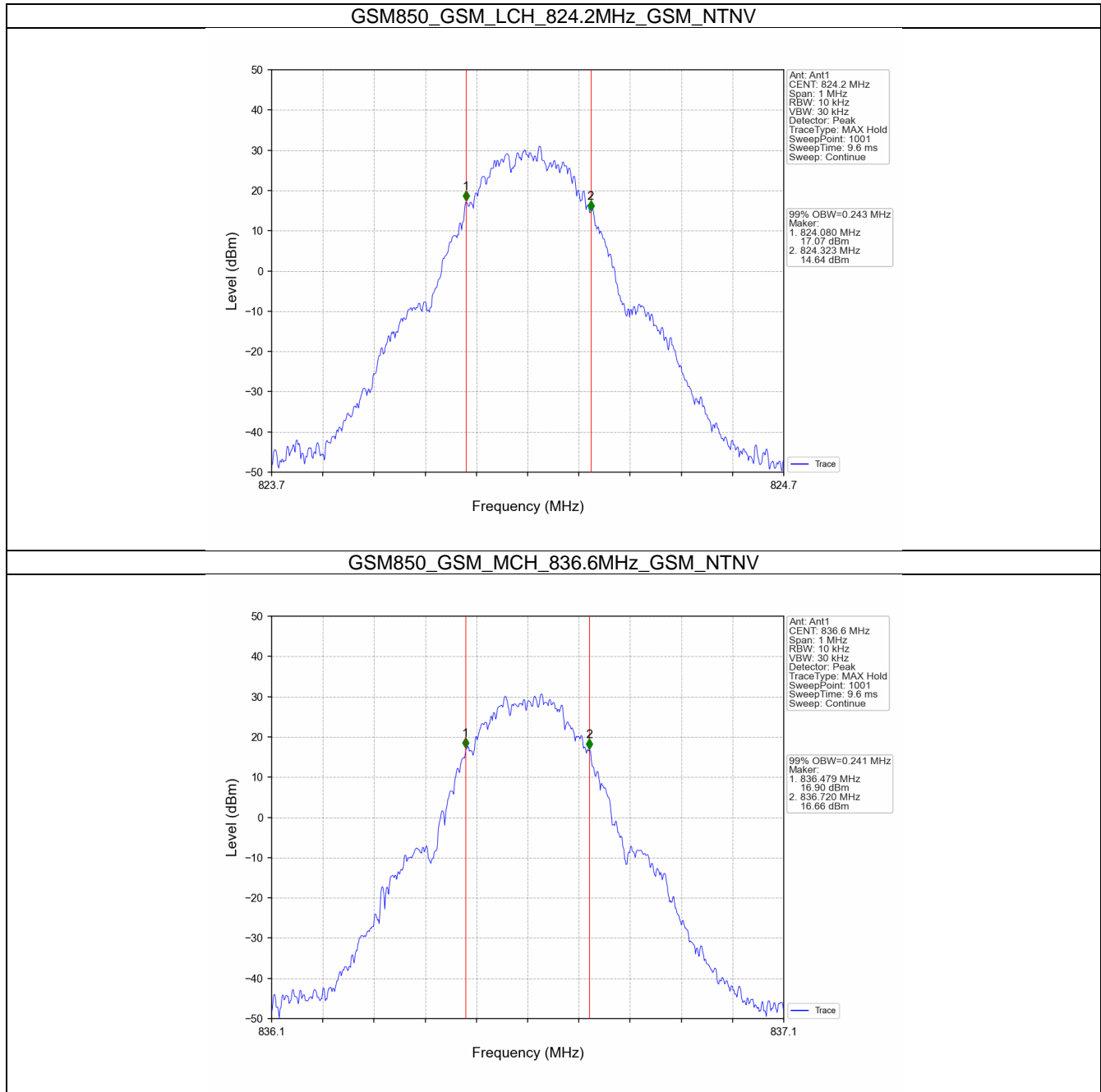
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4.1.2 Test Graph

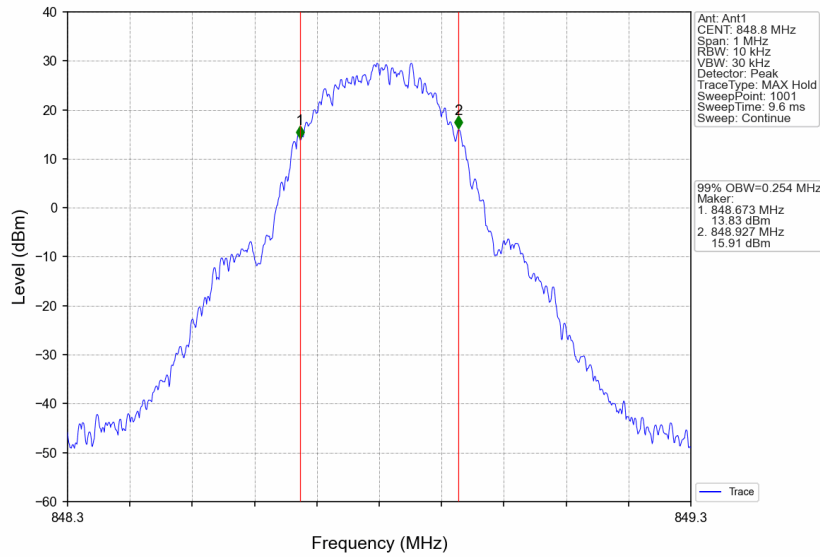


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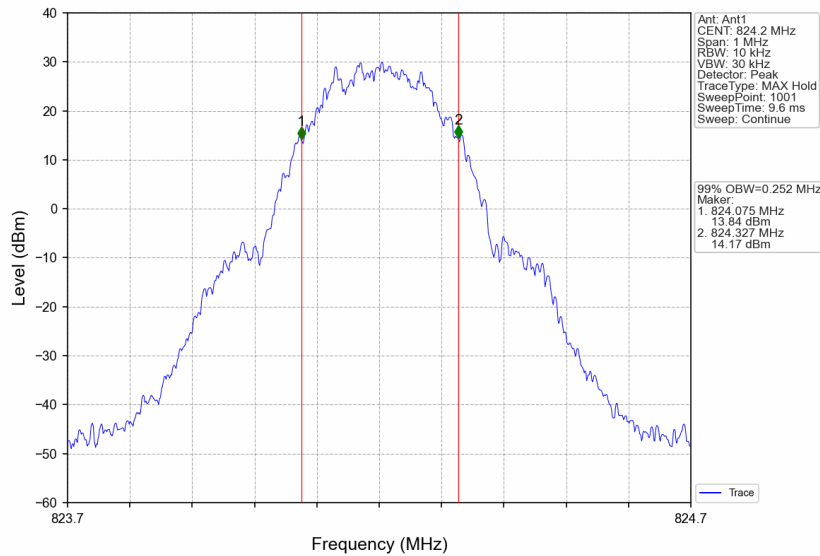
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GSM850_GSM_HCH_848.8MHz_GSM_NTNV



GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



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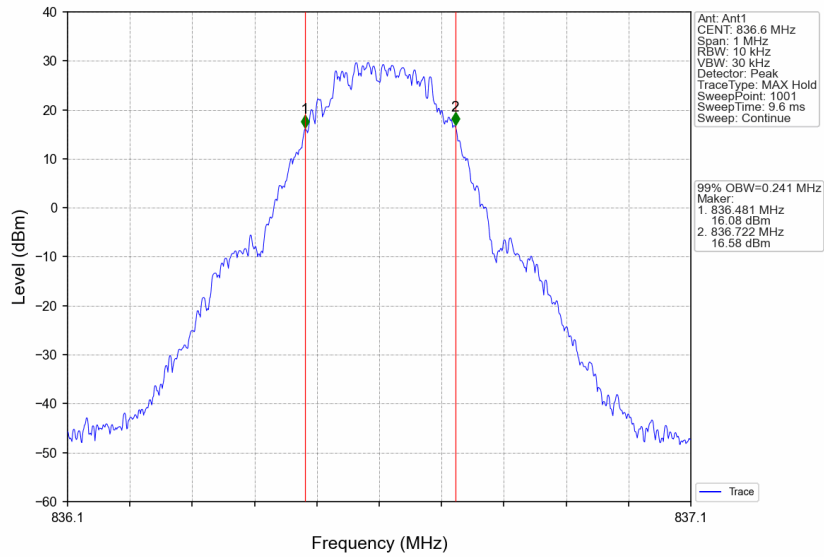
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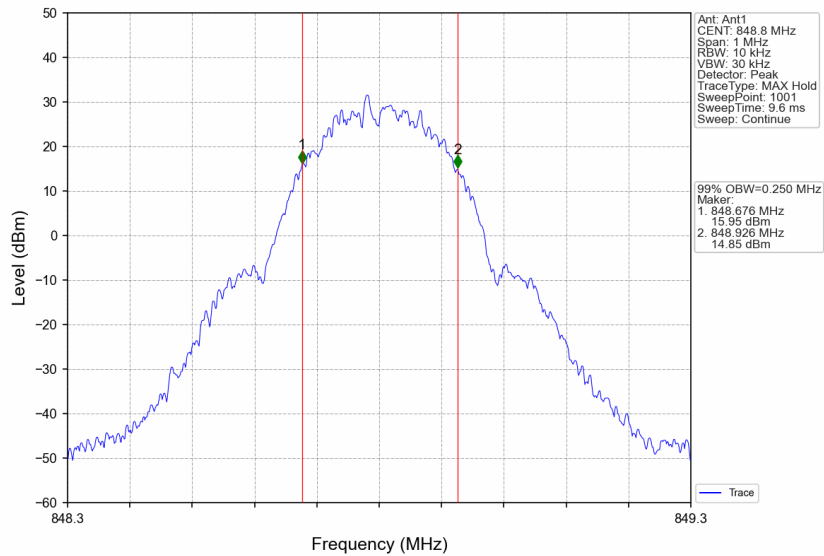
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GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV

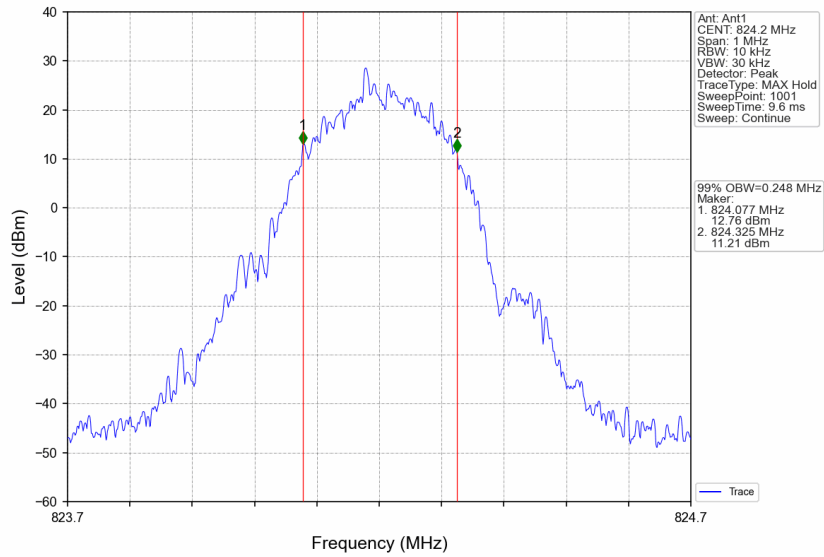


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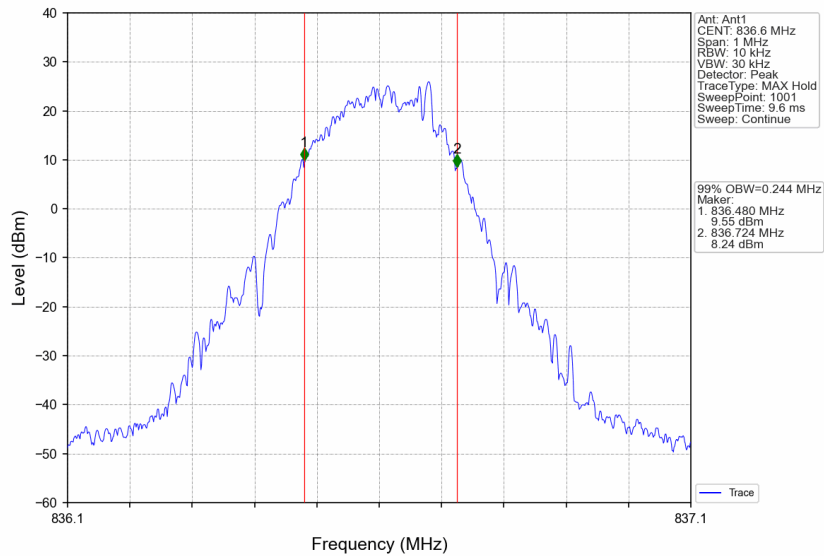
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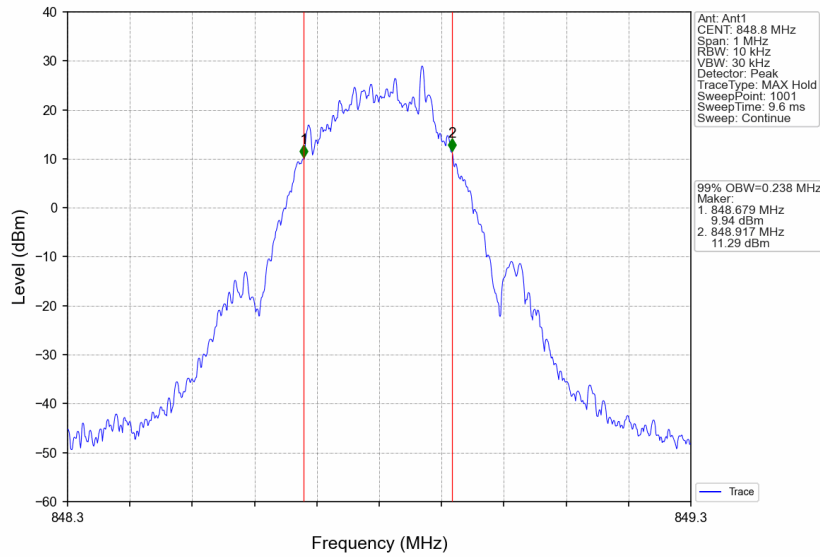
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4.2 GSM850_XDB

4.2.1 Test Result

Band: GSM850						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	0.311	/	Pass
			836.6	0.314	/	Pass
			848.8	0.318	/	Pass
	GPRS	1 TX Slot	824.2	0.320	/	Pass
			836.6	0.321	/	Pass
			848.8	0.306	/	Pass
	EGPRS	1 TX Slot	824.2	0.299	/	Pass
			836.6	0.314	/	Pass
			848.8	0.291	/	Pass



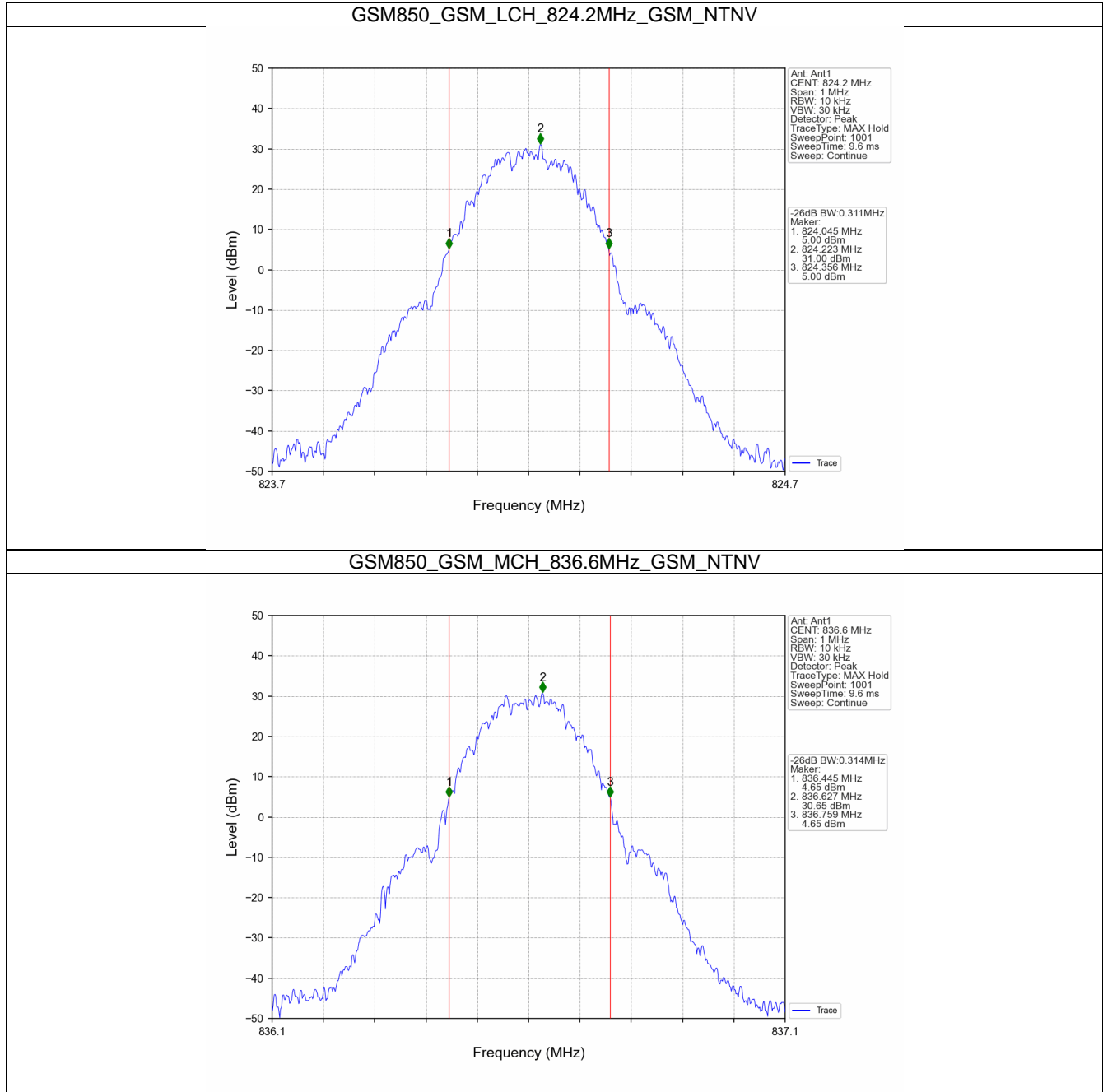
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4.2.2 Test Graph

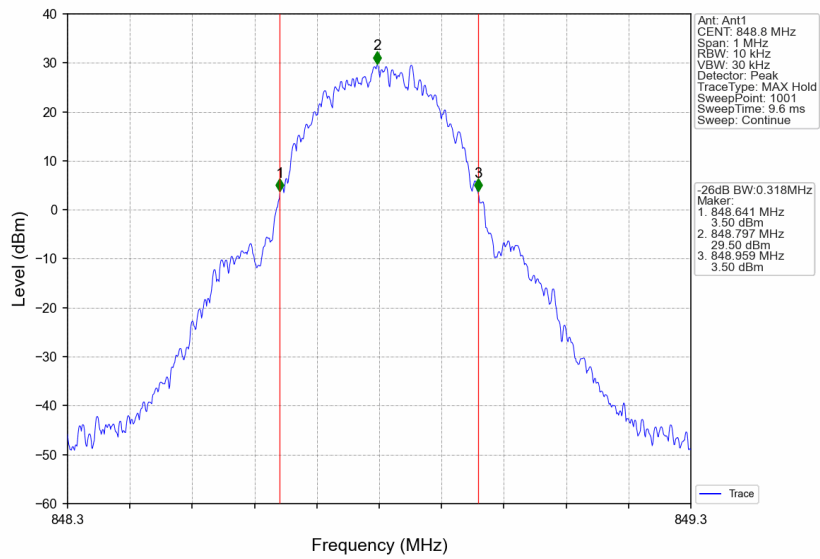


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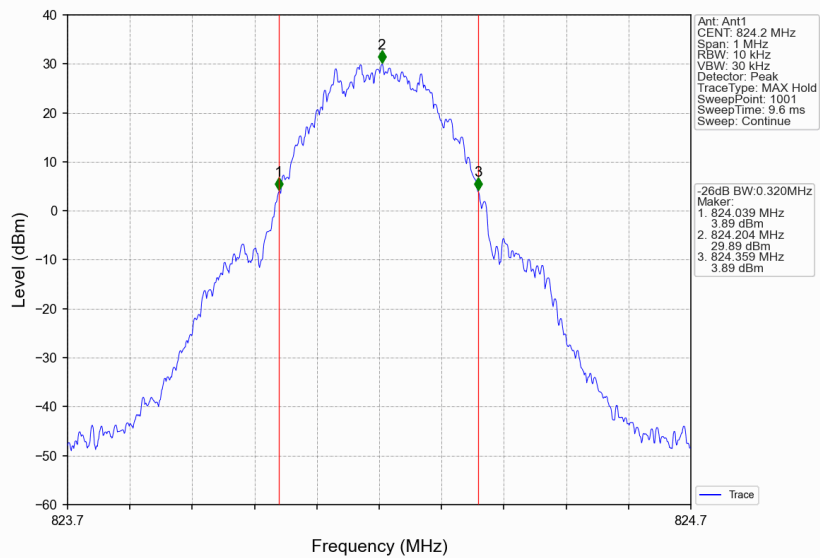
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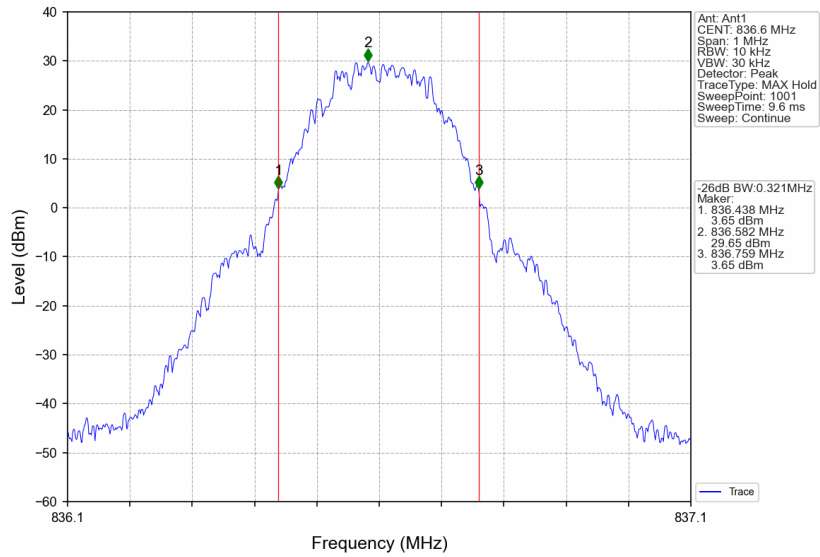
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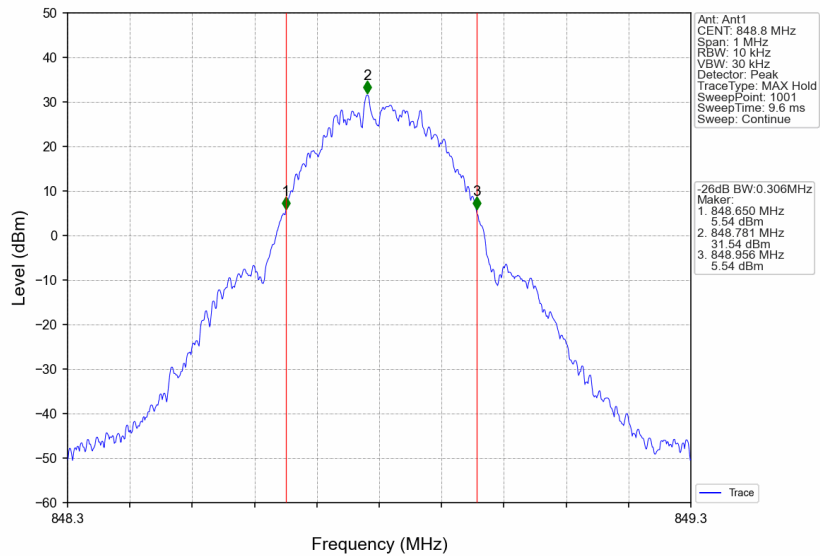
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GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



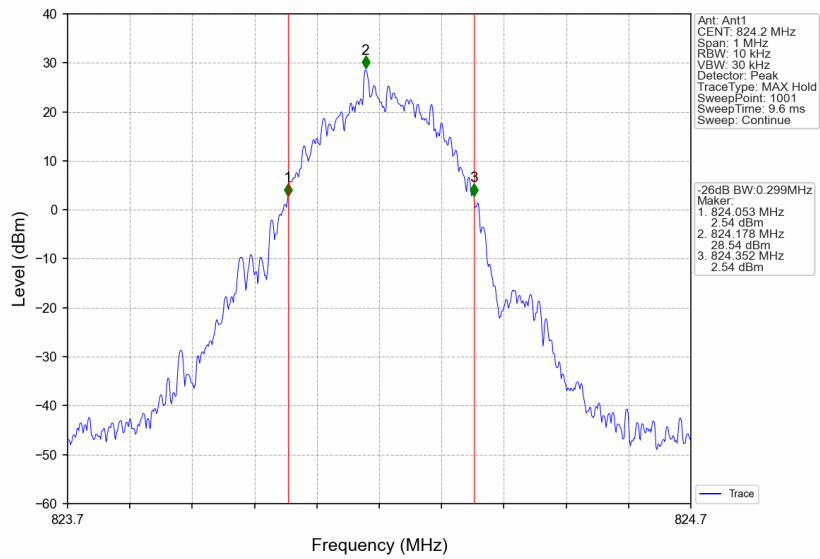
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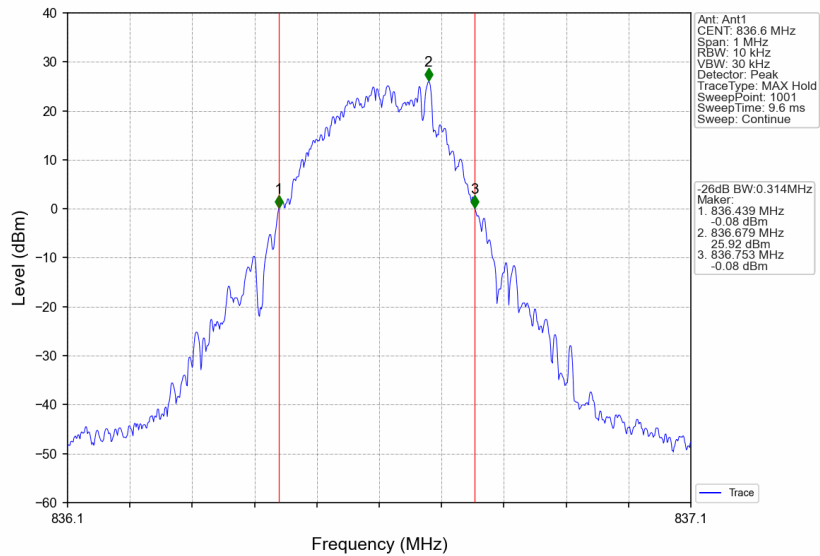
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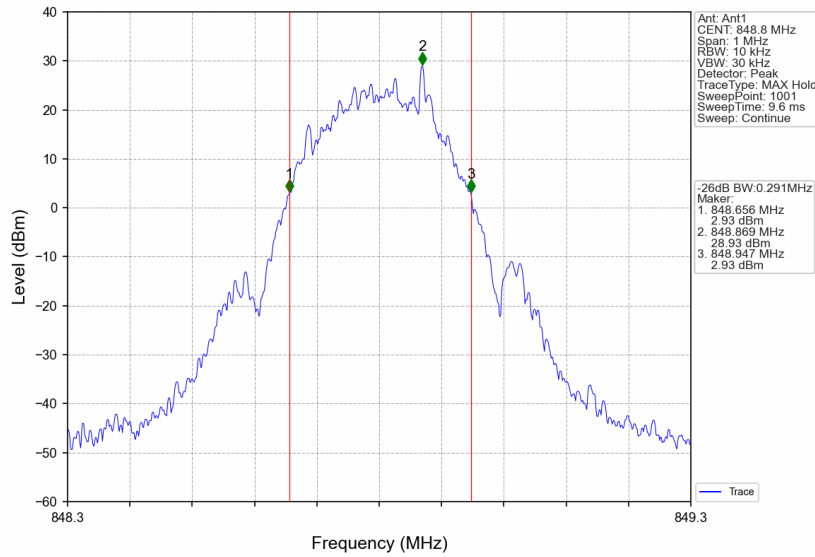


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5. Peak-Average Ratio

5.1 GSM850

5.1.1 Test Result

Band: GSM850						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	9.21	<=13	Pass
			836.6	9.43	<=13	Pass
			848.8	9.39	<=13	Pass
	GPRS	4 TX Slots	824.2	3.59	<=13	Pass
			836.6	3.53	<=13	Pass
			848.8	3.59	<=13	Pass
	EGPRS	4 TX Slots	824.2	9.18	<=13	Pass
			836.6	9.58	<=13	Pass
			848.8	9.42	<=13	Pass



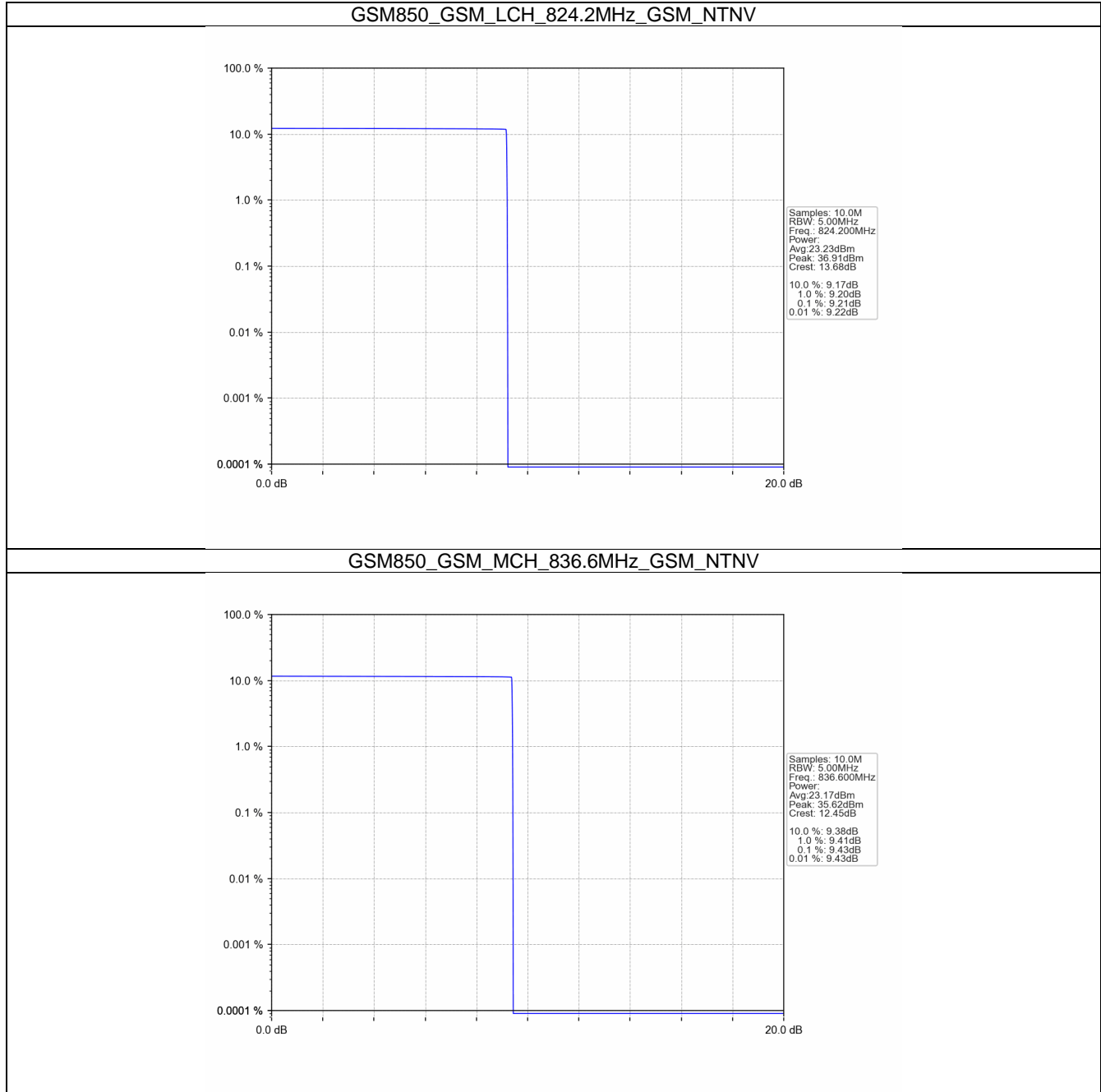
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5.1.2 Test Graph

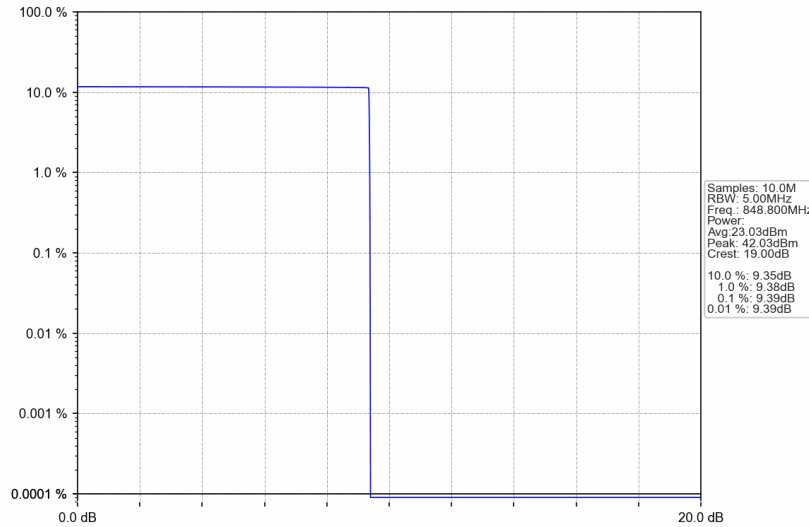


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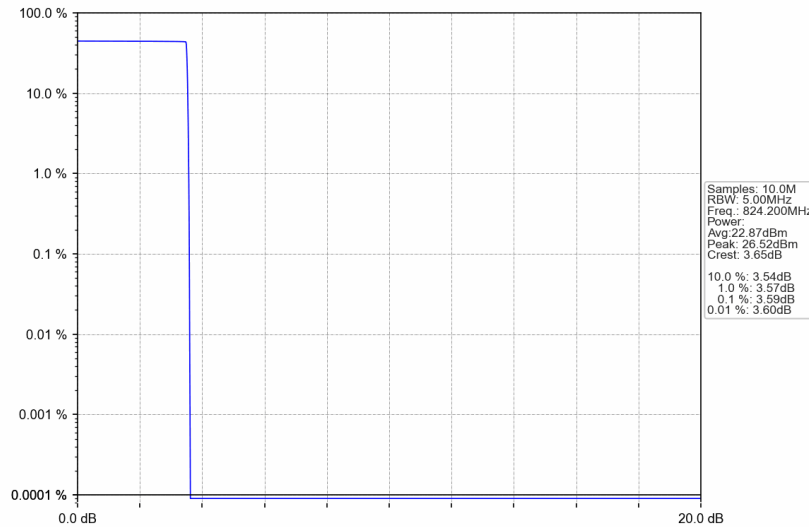
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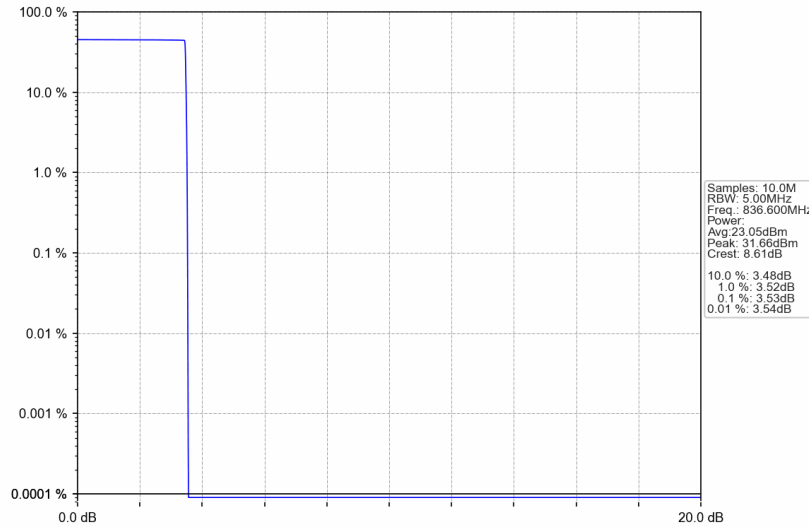


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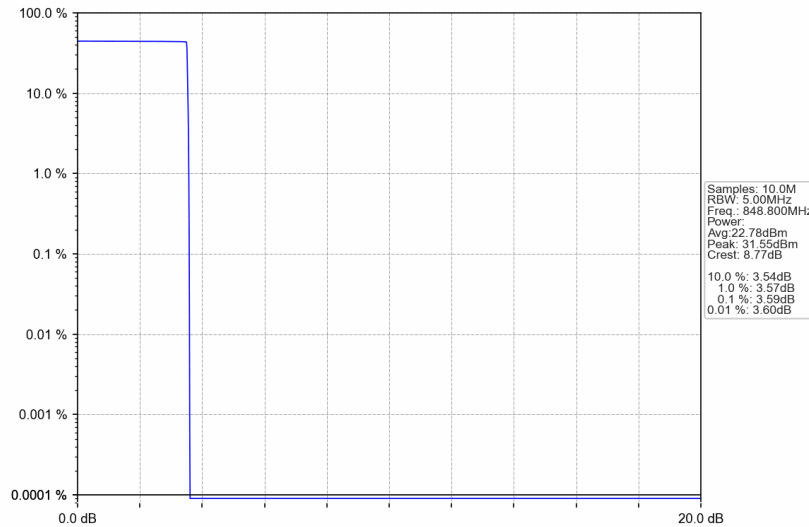
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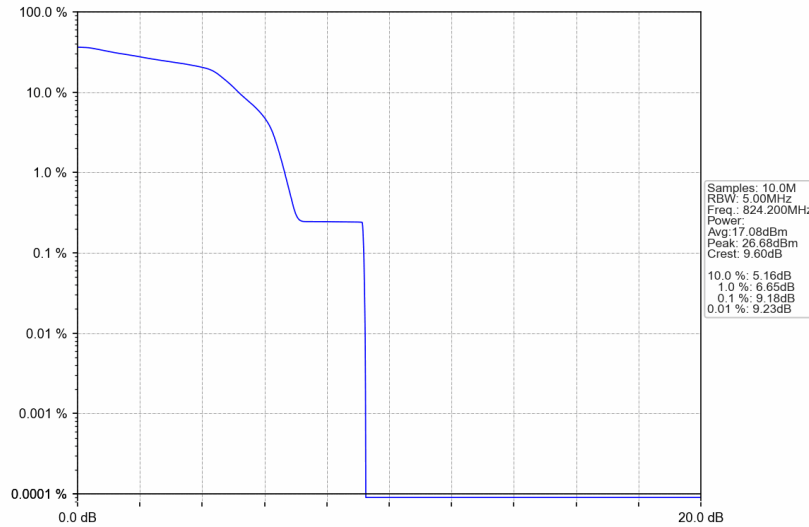
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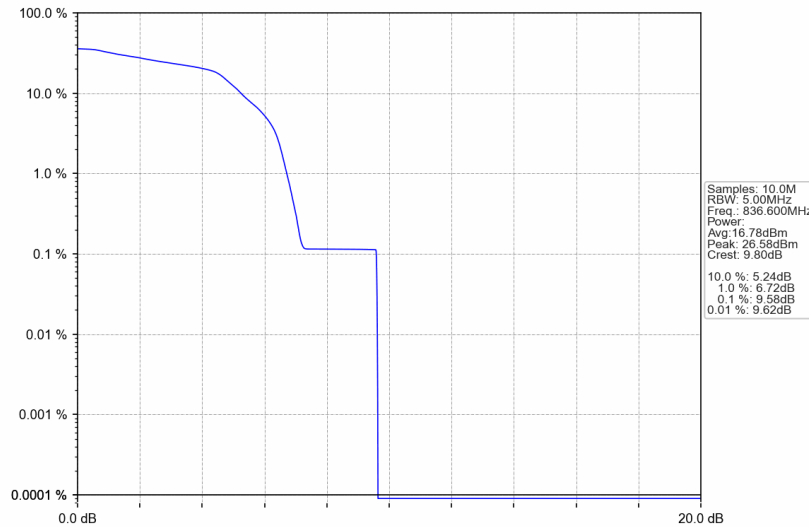
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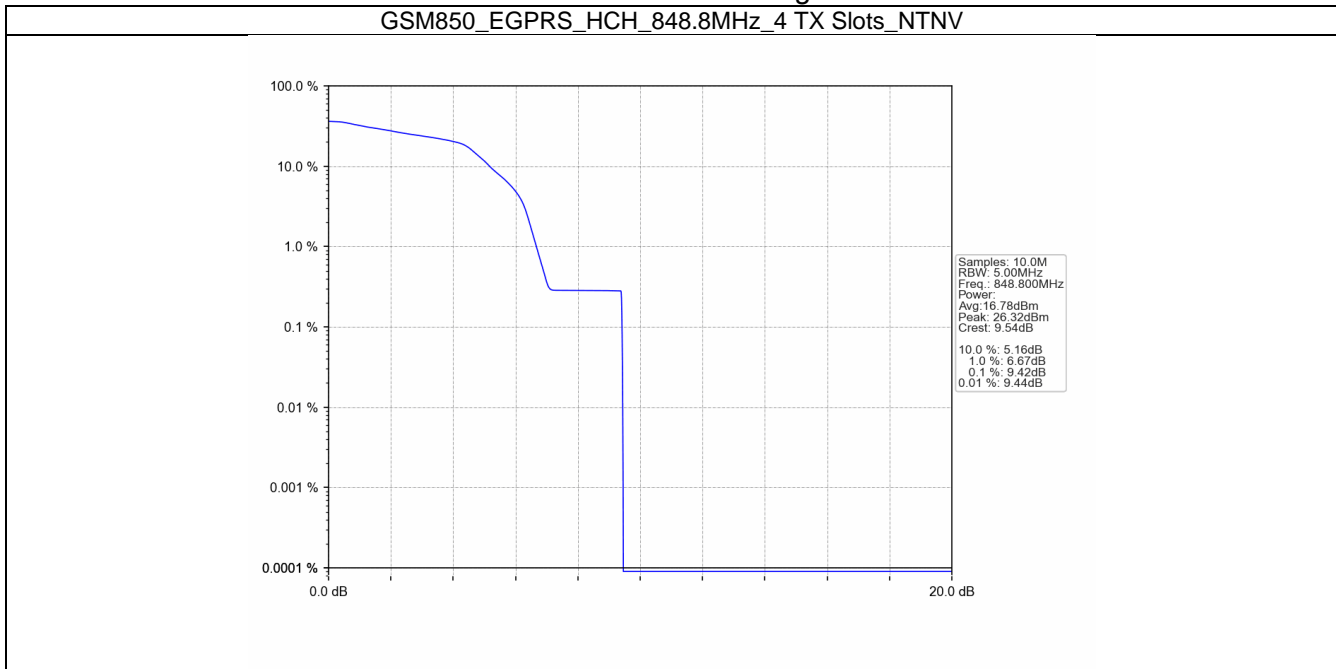
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Rev.: 01

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6. Spurious Emission & Band Edges

6.1 GSM850

6.1.1 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
	GPRS	1 TX Slot	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

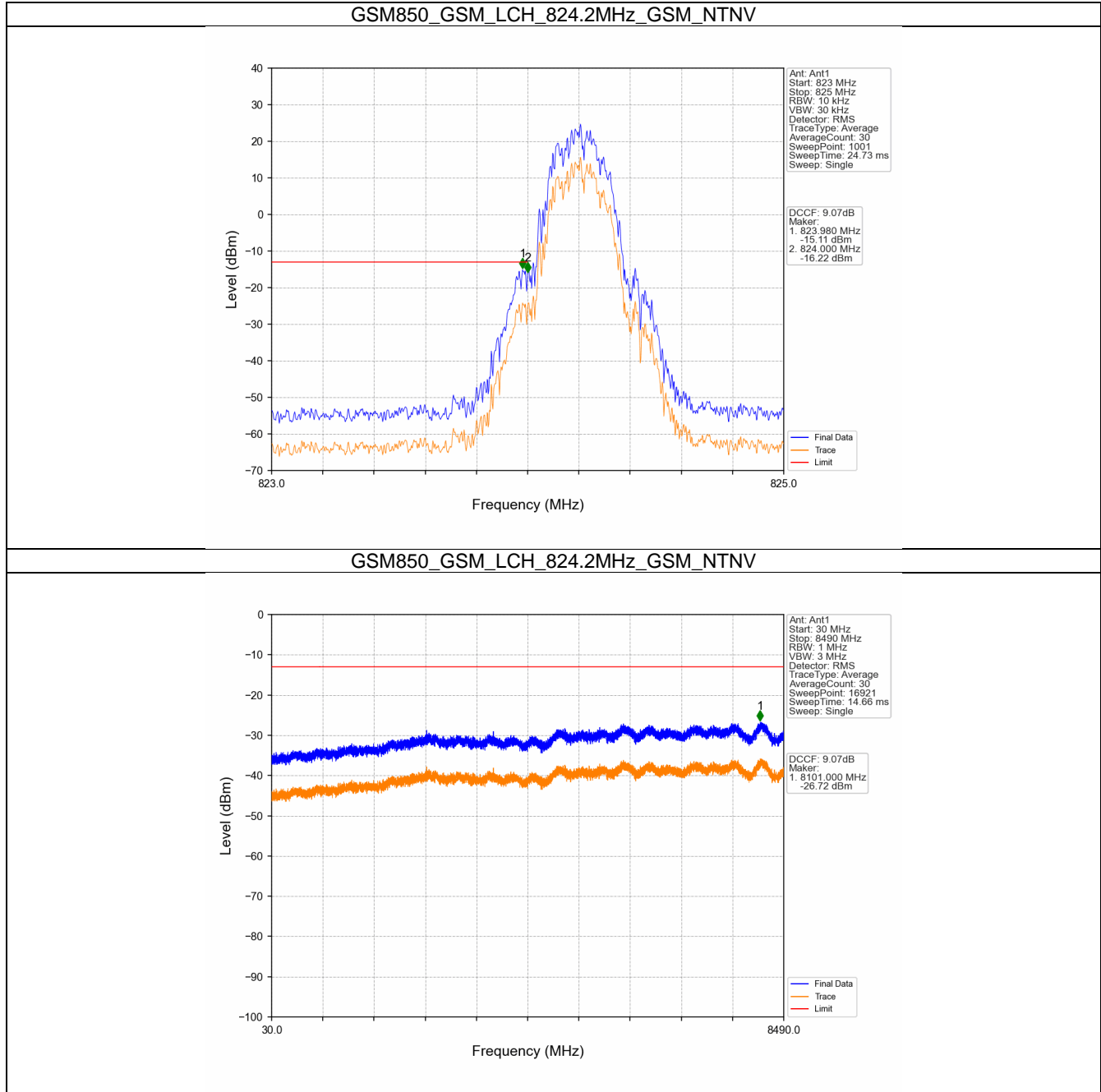


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6.1.2 Test Graph

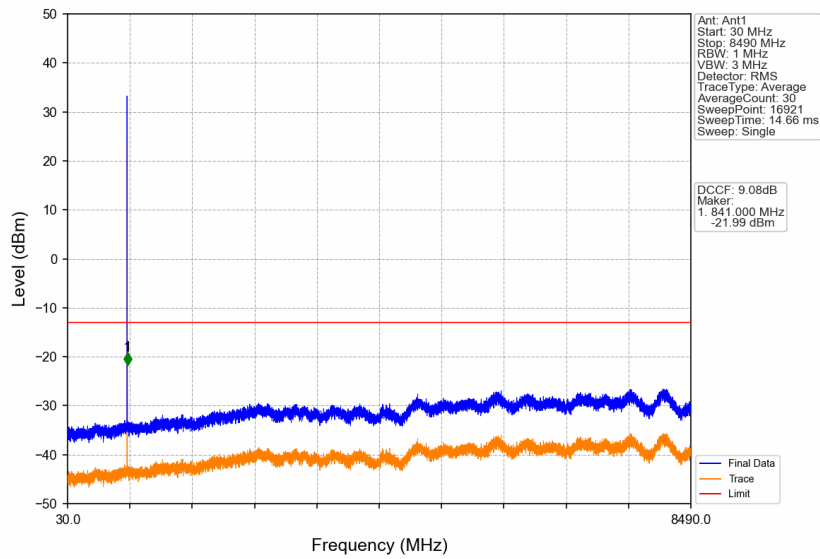


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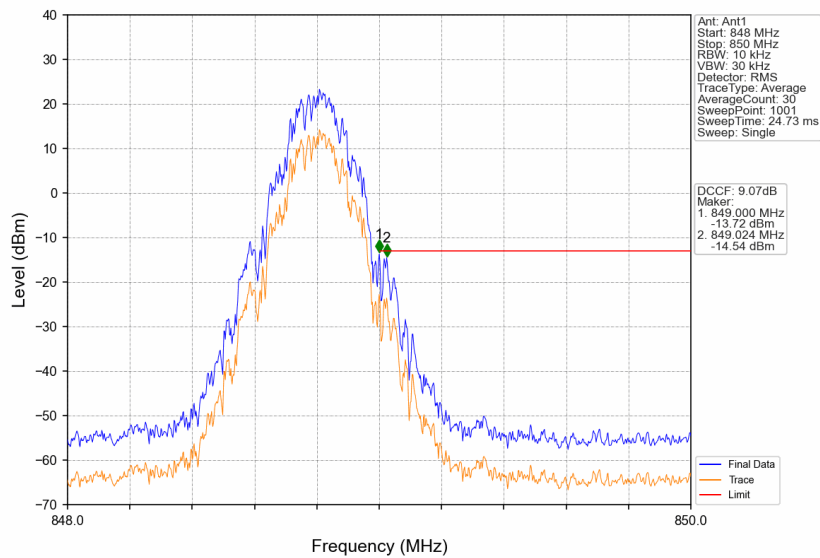
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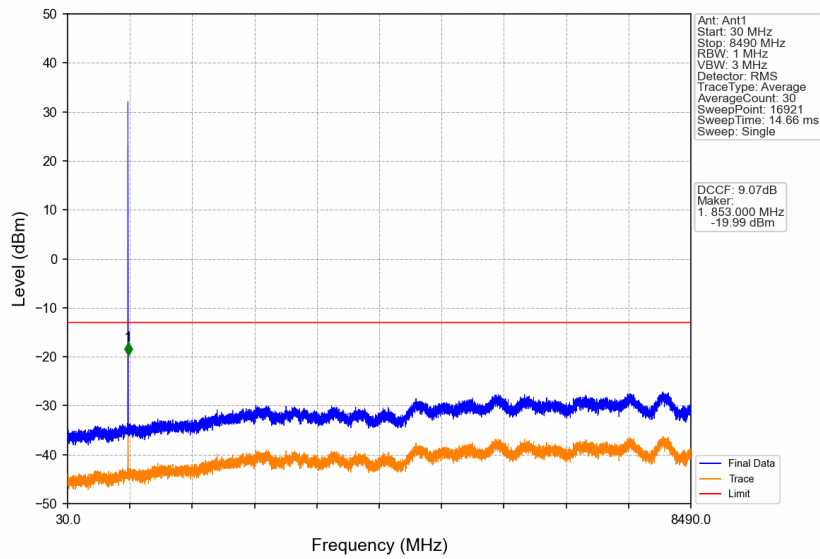


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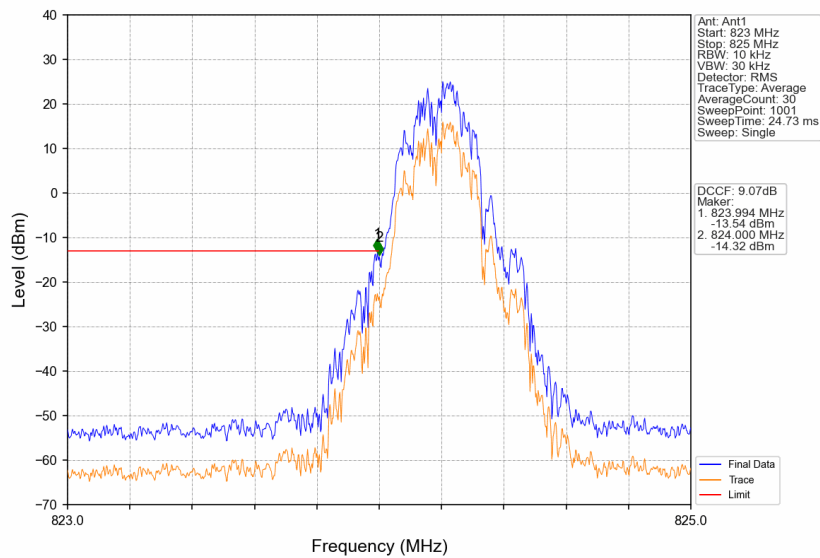
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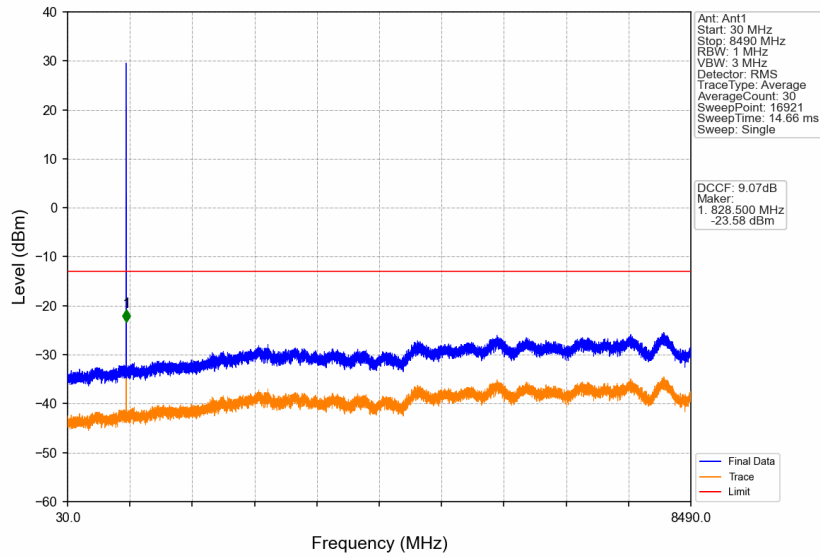


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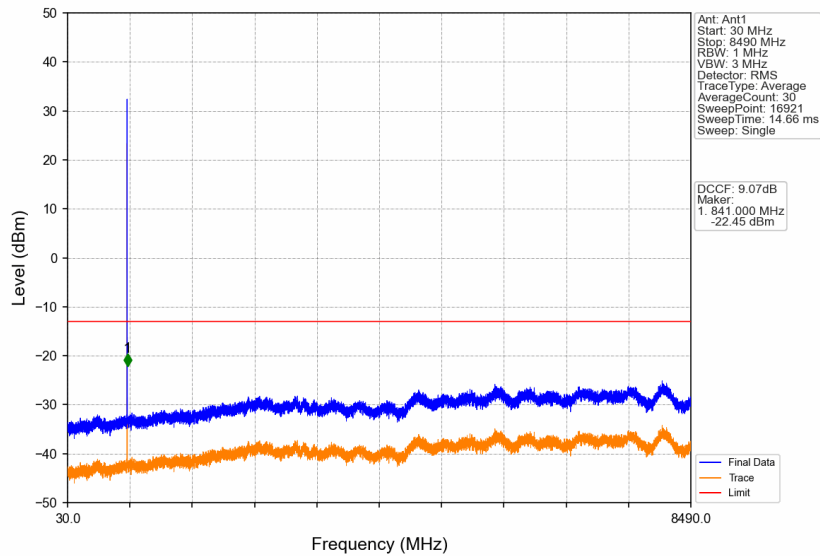
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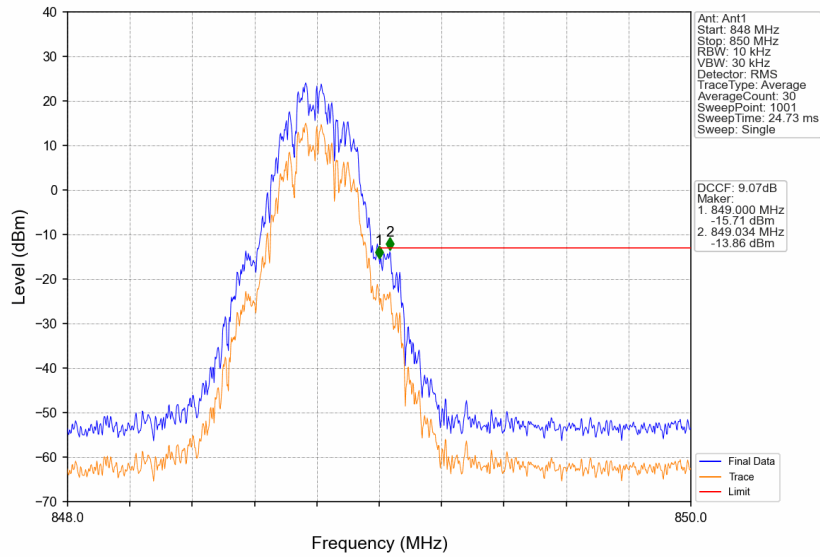
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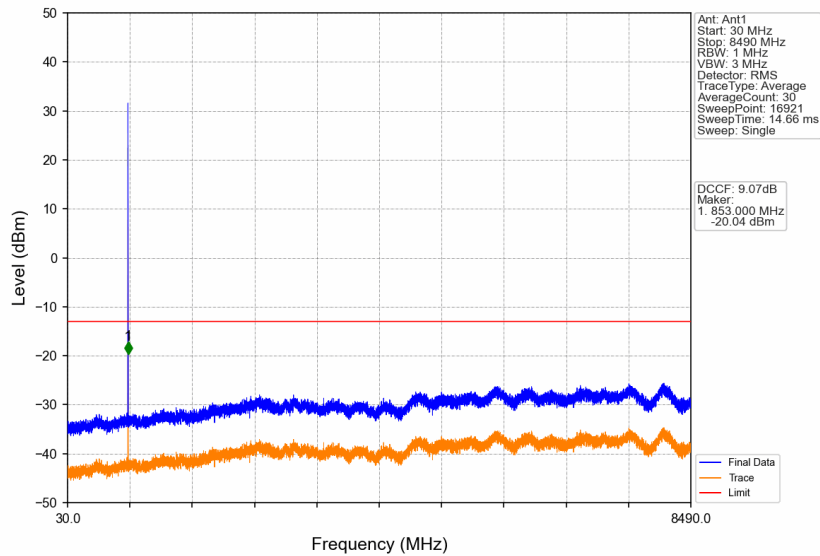
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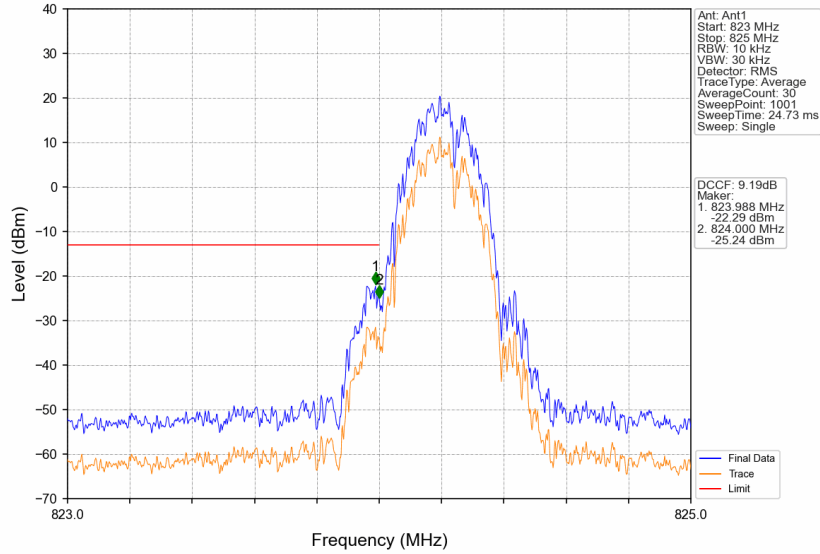


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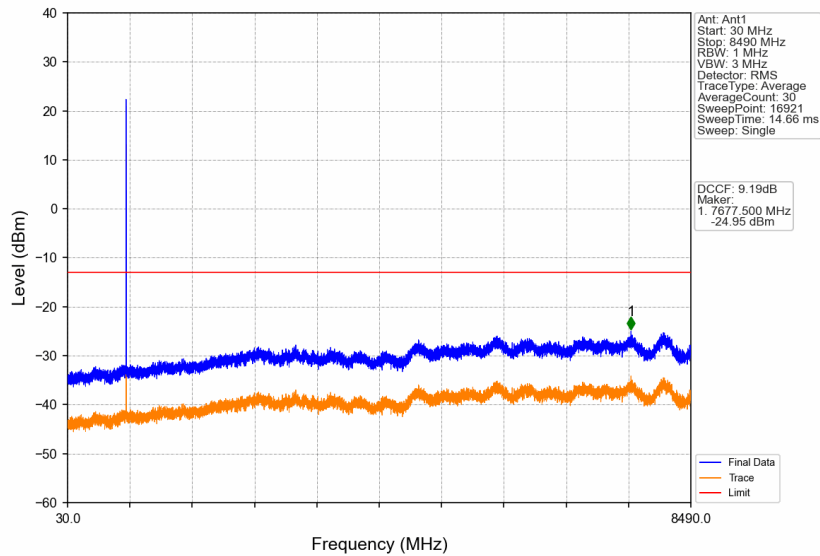
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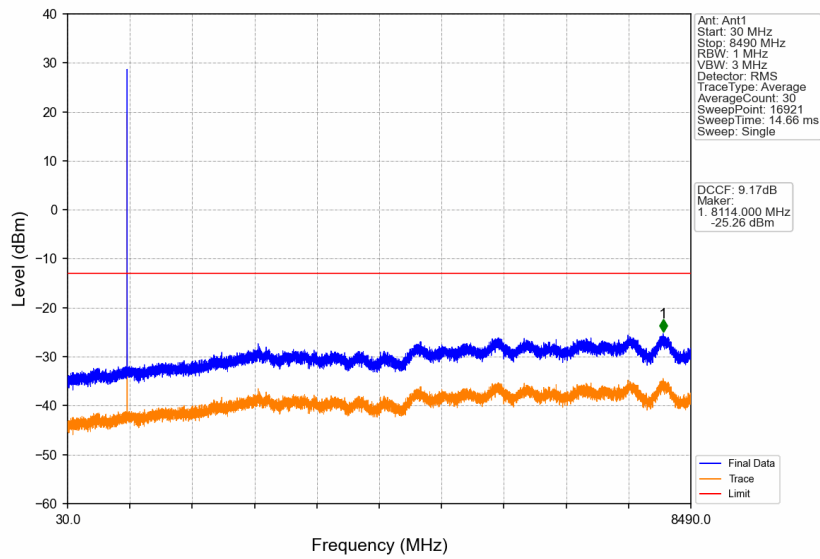
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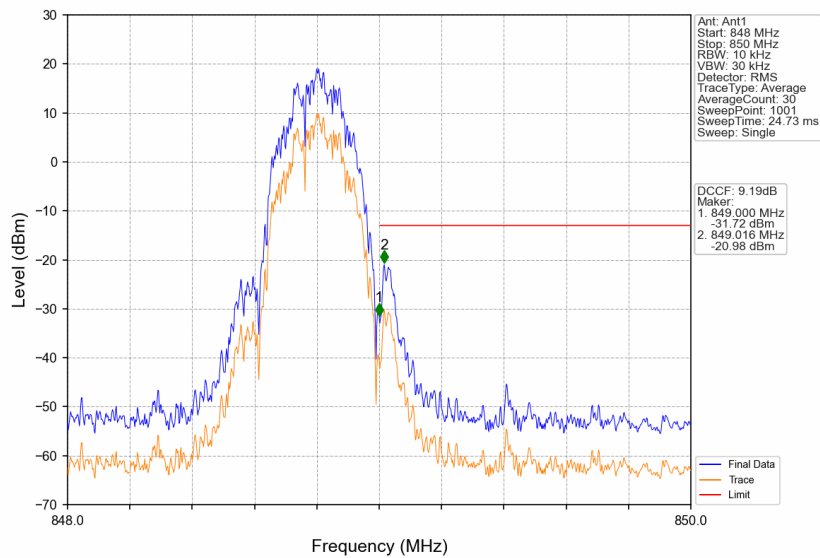
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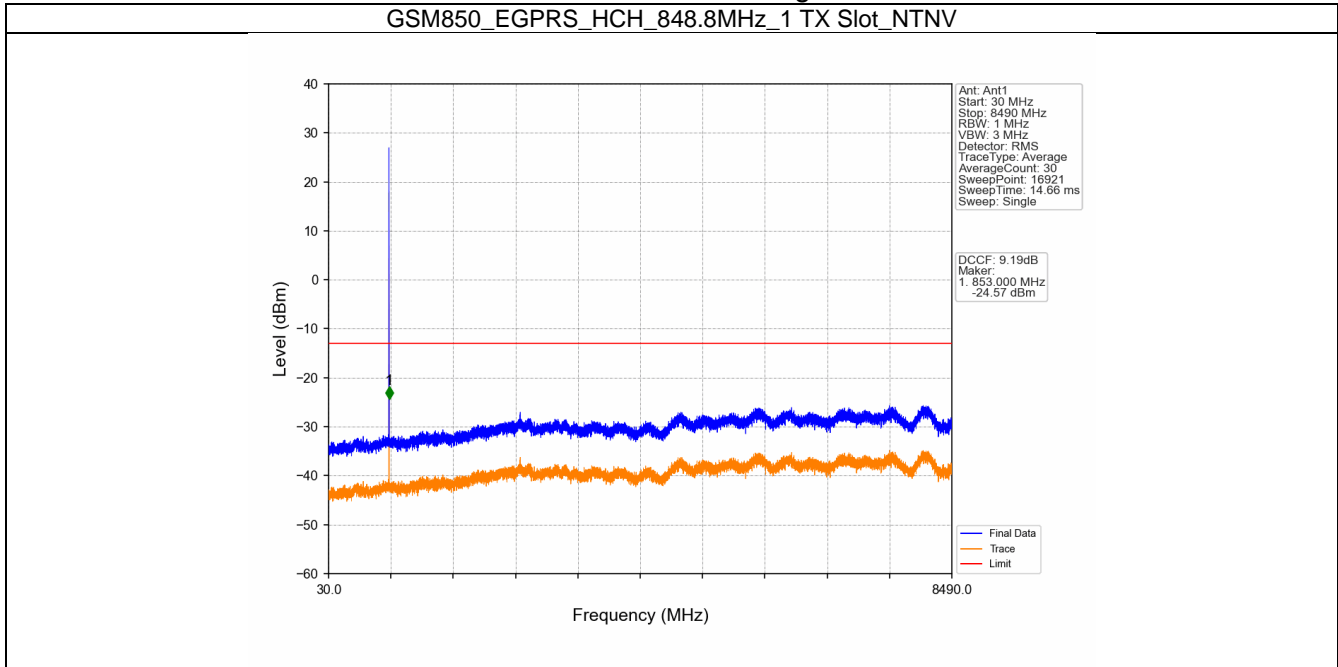


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