



Report No.: SEWM2311000478RG01

Rev.: 01

Page: 1 of 42

Appendix B.1

GSM 850



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Report No.: SEWM2311000478RG01

Rev.: 01

Page: 2 of 42

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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Report No.: SEWM2311000478RG01

Rev.: 01

Page: 3 of 42

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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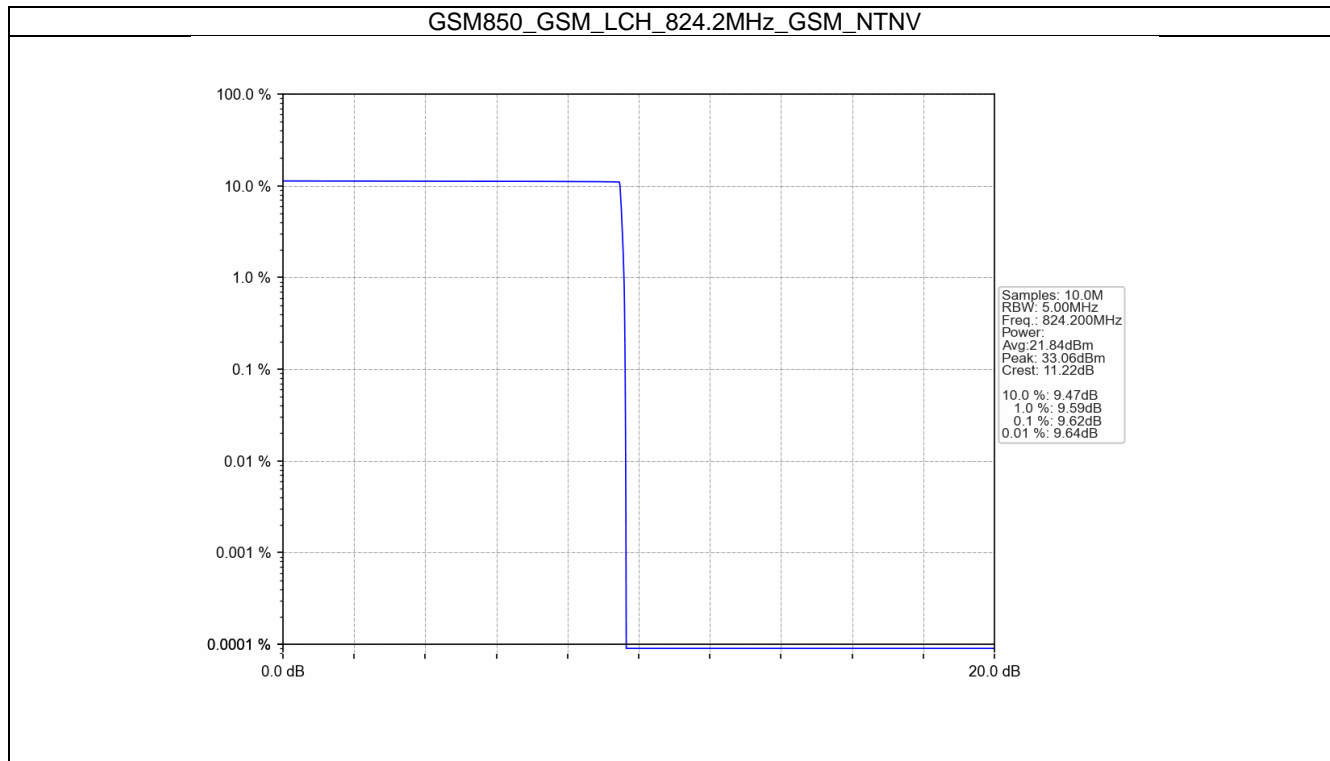
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Report No.: SEWM2311000478RG01

Rev.: 01

Page: 4 of 42

Test Graph



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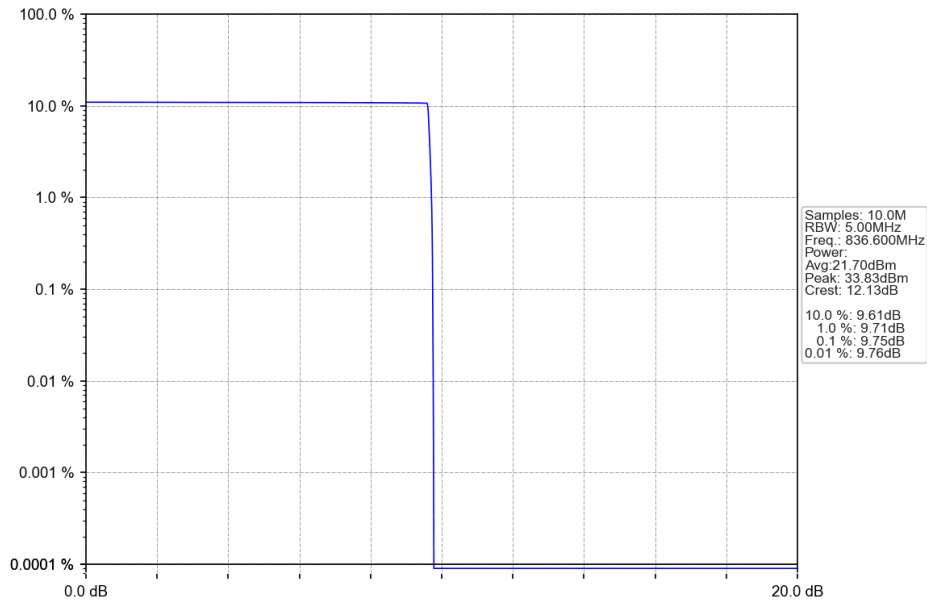
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Report No.: SEWM2311000478RG01

Rev.: 01

Page: 5 of 42

GSM850_GSM_MCH_836.6MHz_GSM_NTNV



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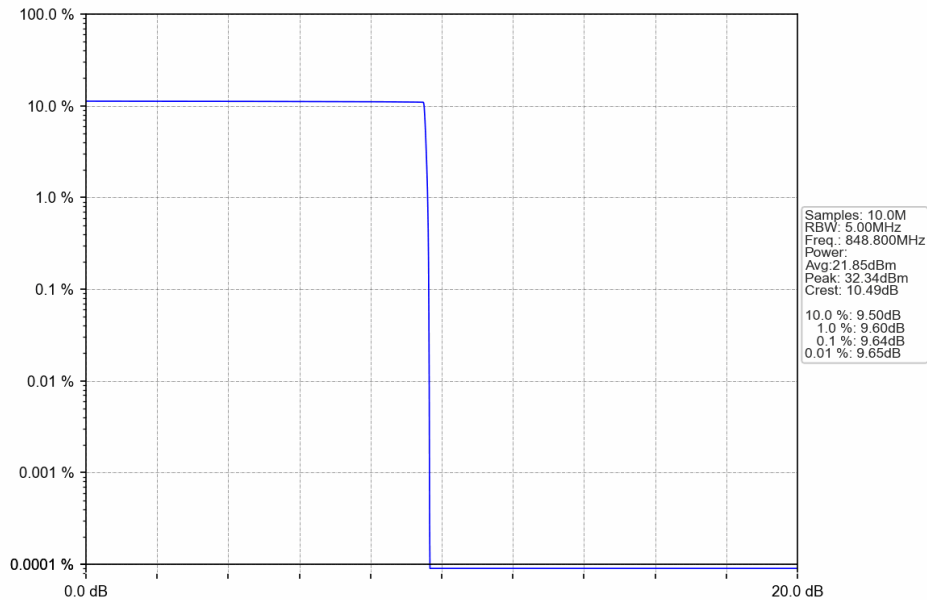
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Rev.: 01

Page: 6 of 42

GSM850_GSM_HCH_848.8MHz_GSM_NTNV



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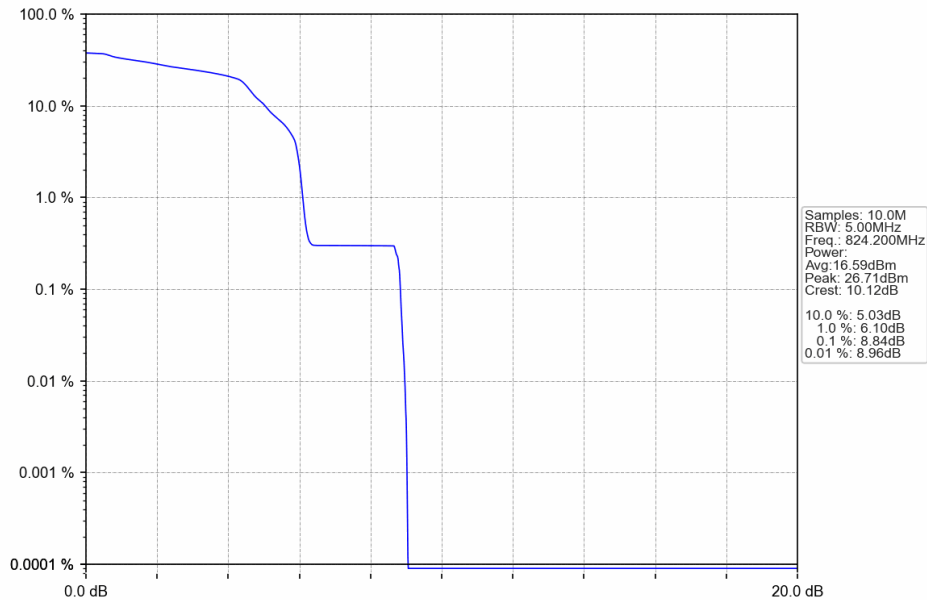
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Rev.: 01

Page: 7 of 42

GSM850_EGPRS_LCH_824.2MHz_4 TX Slots_NTNV



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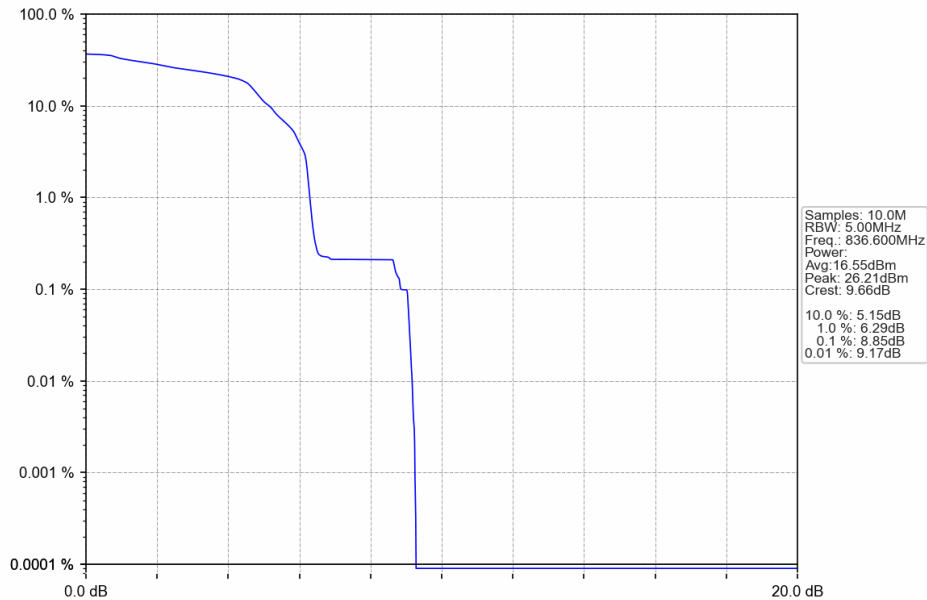
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GSM850_EGPRS_MCH_836.6MHz_4 TX Slots_NTNV



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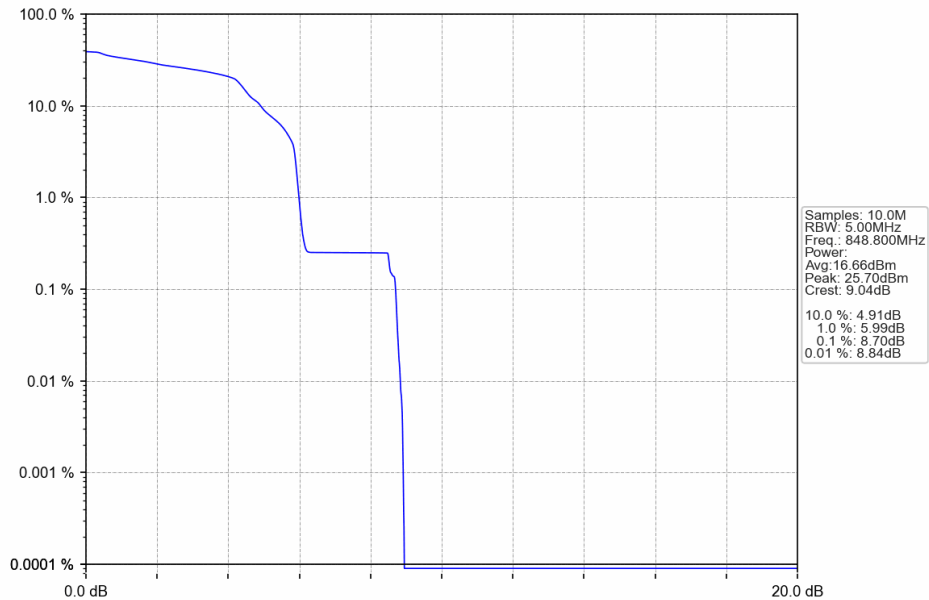
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Rev.: 01

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GSM850_EGPRS_HCH_848.8MHz_4 TX Slots_NTNV



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Report No.: SEWM2311000478RG01

Rev.: 01

Page: 10 of 42

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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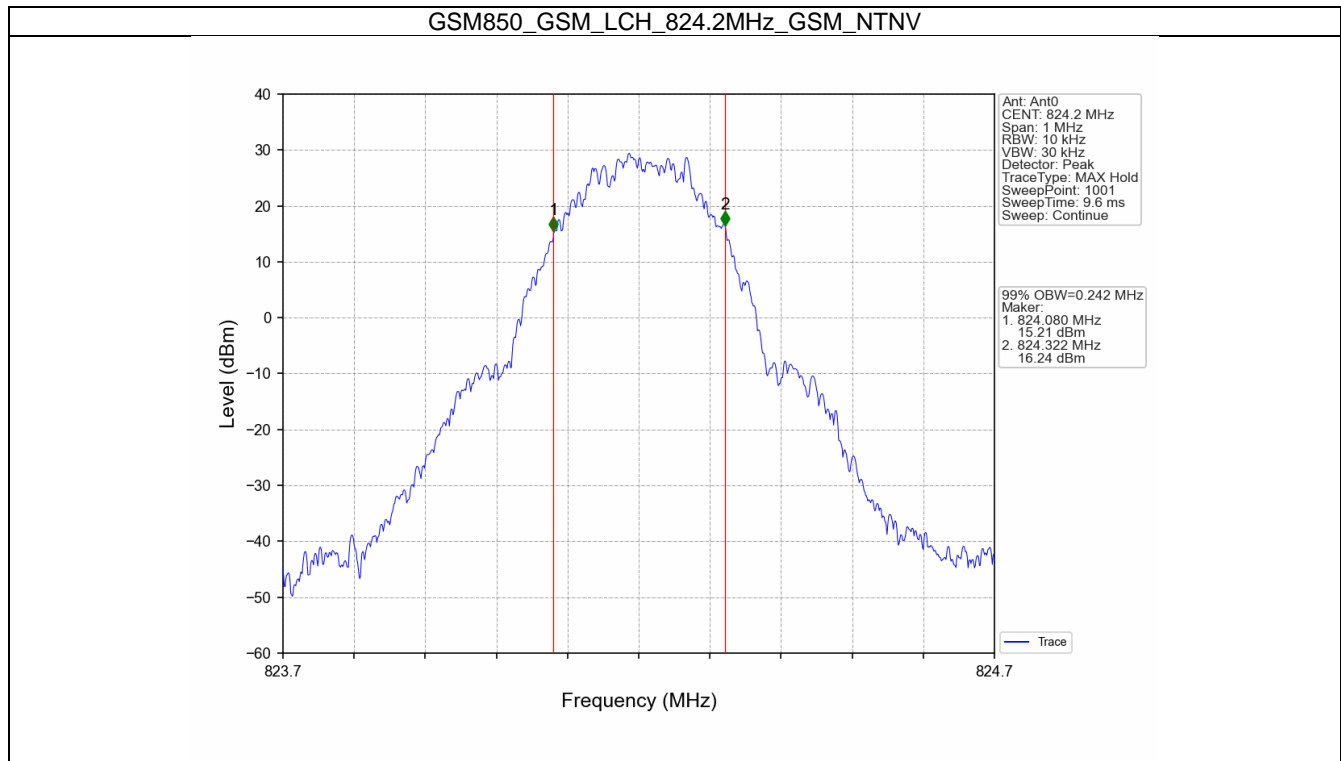
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Rev.: 01

Page: 11 of 42

Test Graph



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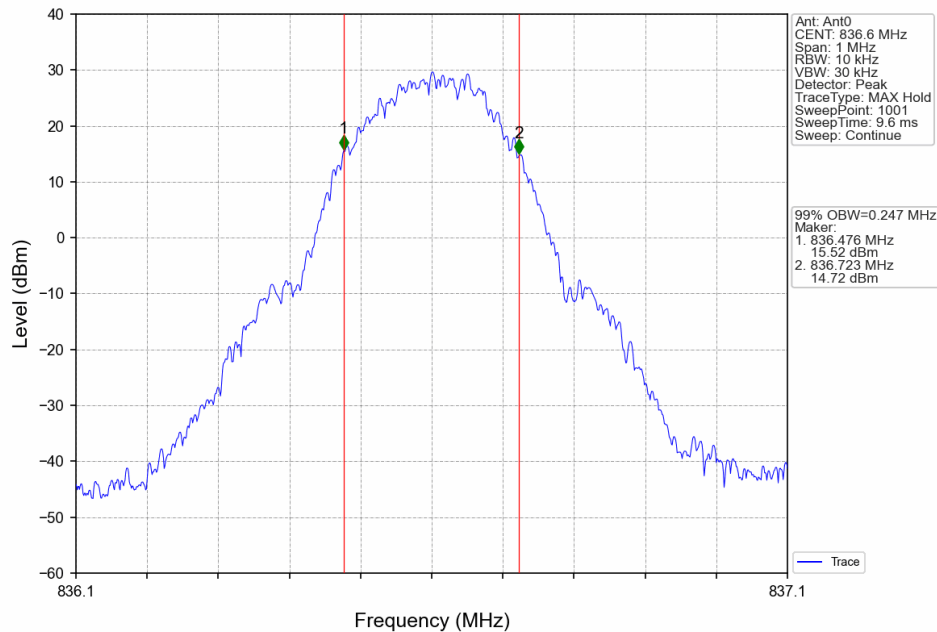
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Rev.: 01

Page: 12 of 42

GSM850_GSM_MCH_836.6MHz_GSM_NTNV



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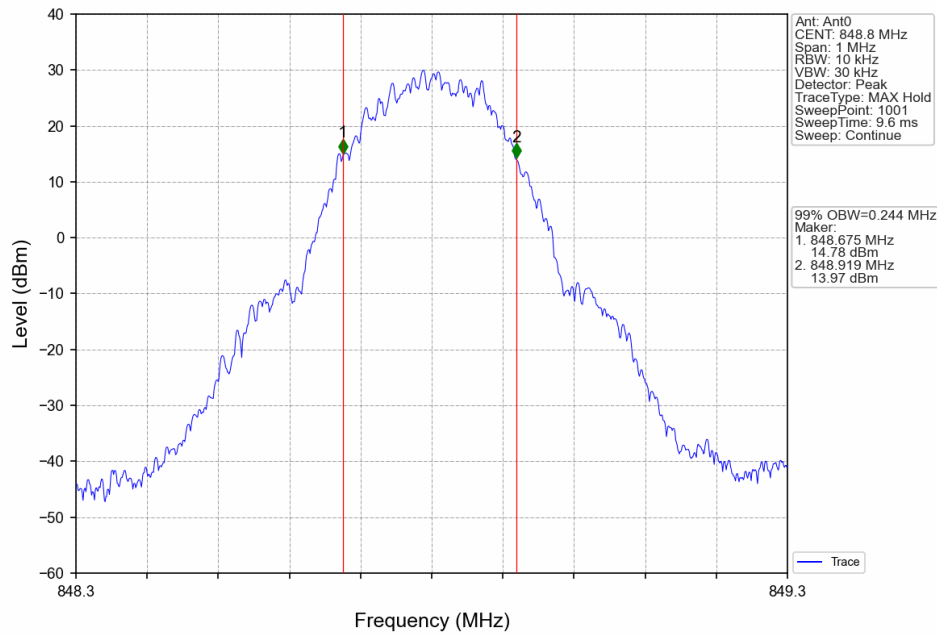
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Rev.: 01

Page: 13 of 42

GSM850_GSM_HCH_848.8MHz_GSM_NTNV



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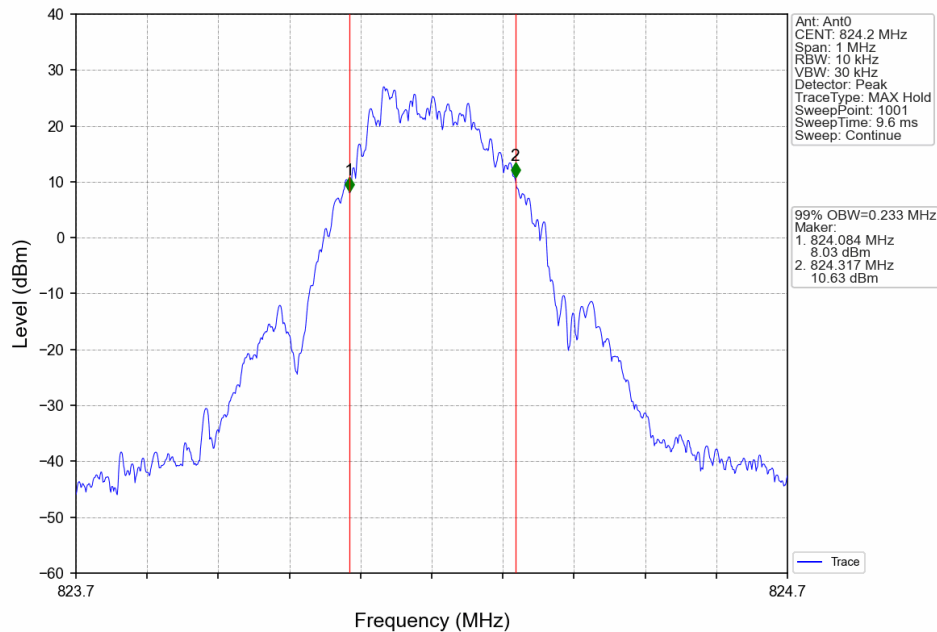
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Report No.: SEWM2311000478RG01

Rev.: 01

Page: 14 of 42

GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



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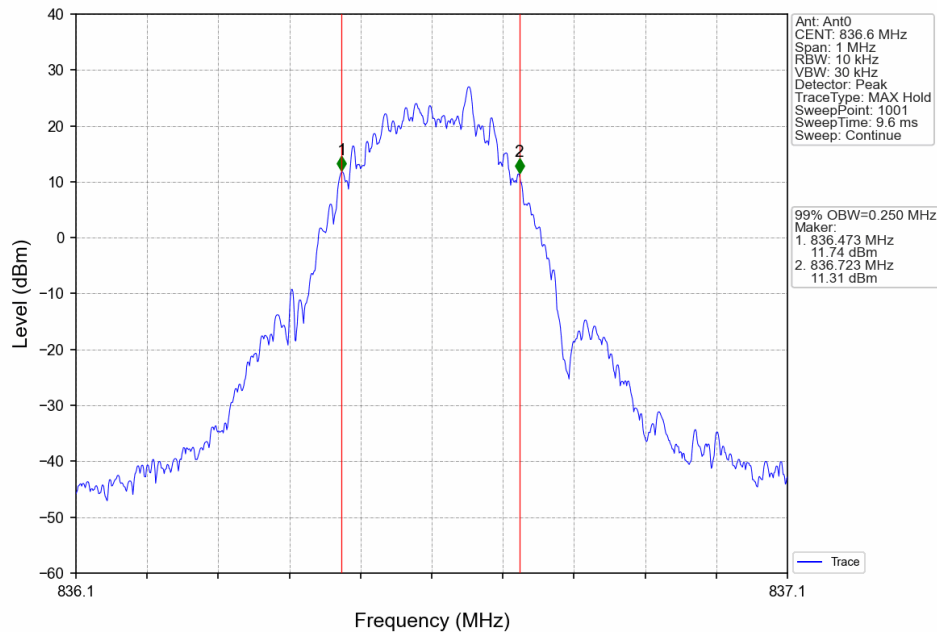
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Report No.: SEWM2311000478RG01

Rev.: 01

Page: 15 of 42

GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



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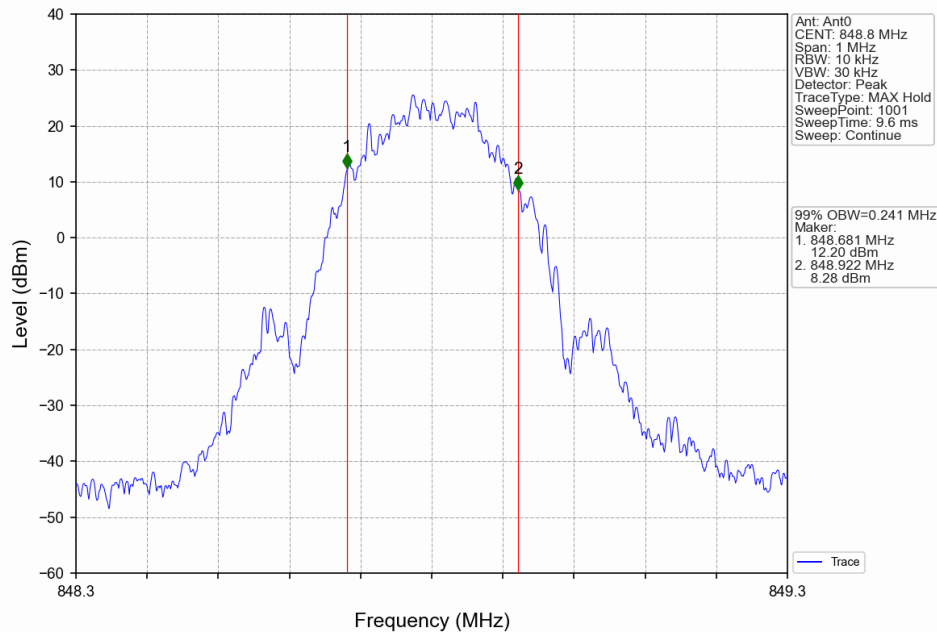
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Report No.: SEWM2311000478RG01

Rev.: 01

Page: 16 of 42

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Report No.: SEWM2311000478RG01

Rev.: 01

Page: 17 of 42

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	0.314	/	Pass
			848.8	0.312	/	Pass
	EGPRS	1 TX Slot	824.2	0.312	/	Pass
			836.6	0.311	/	Pass
			848.8	0.312	/	Pass



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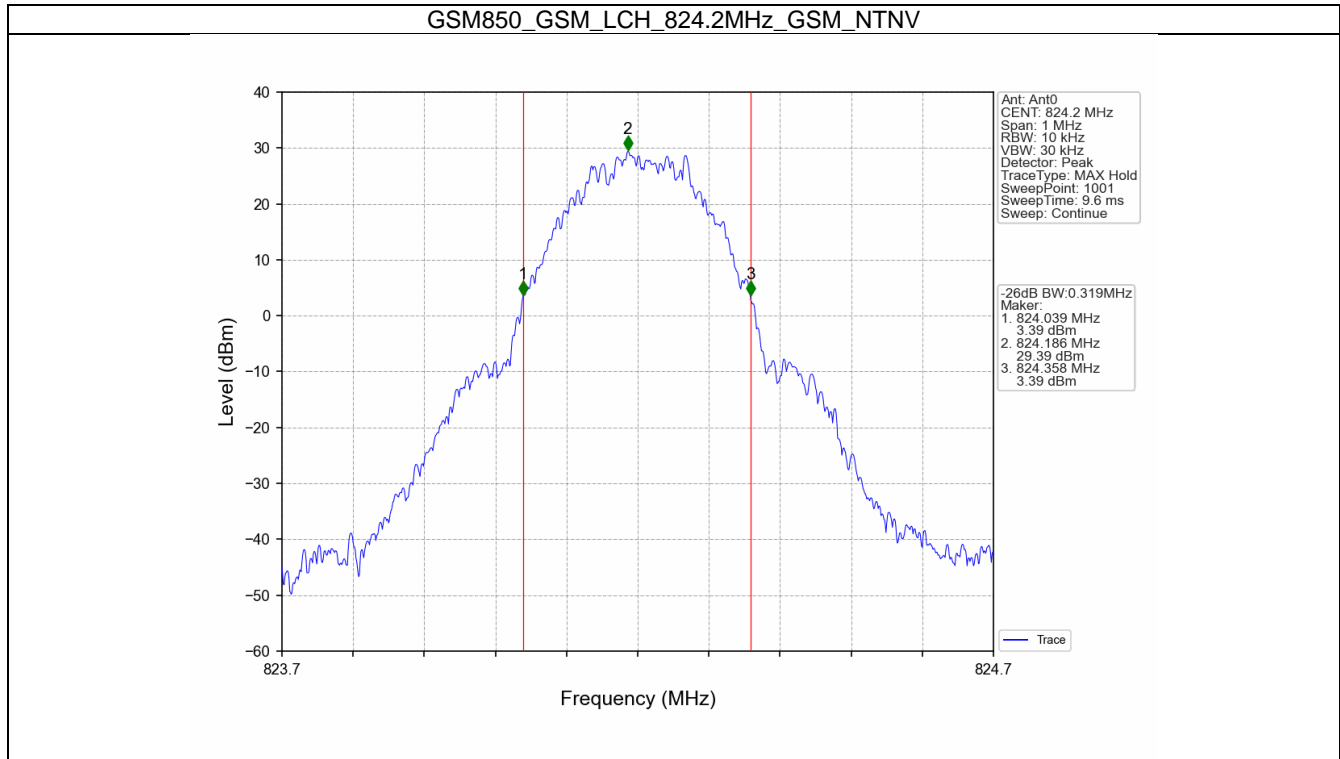
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Rev.: 01

Page: 18 of 42

Test Graph



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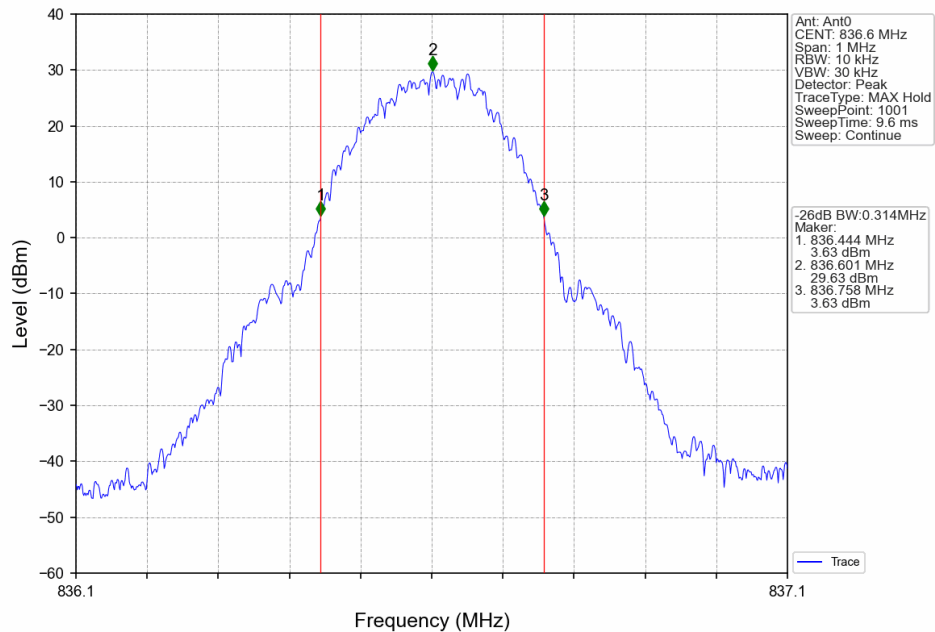
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Page: 19 of 42

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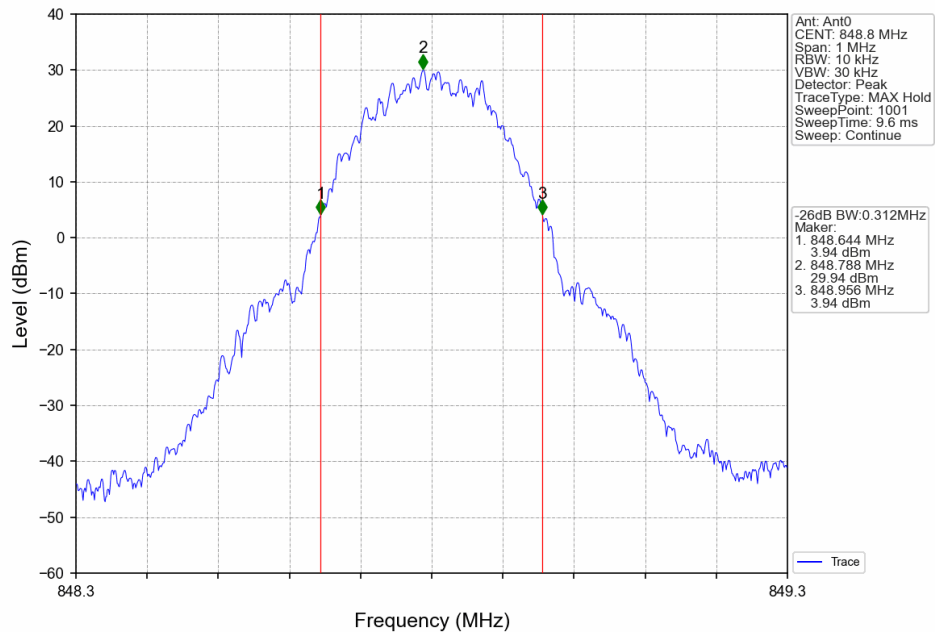
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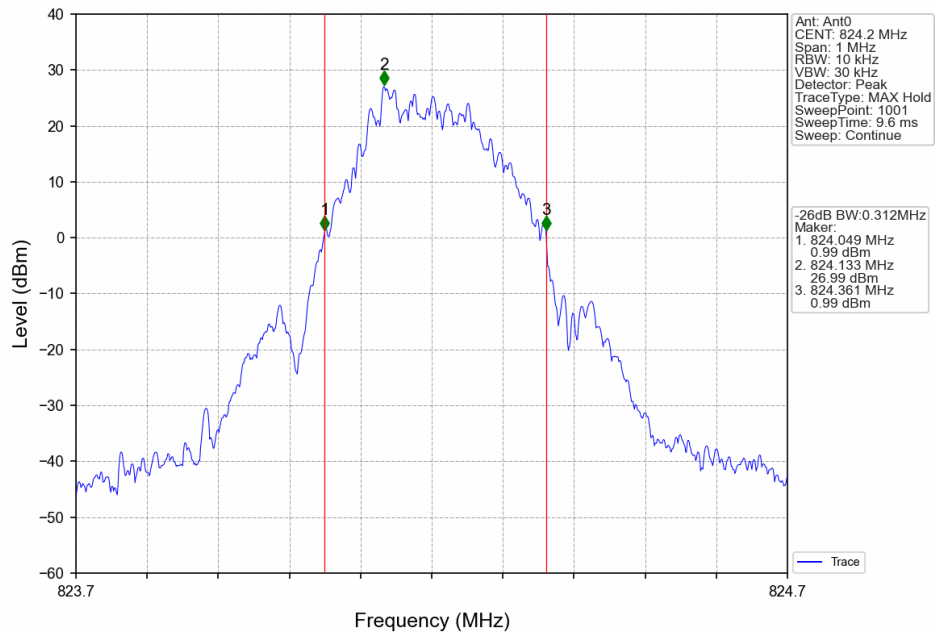
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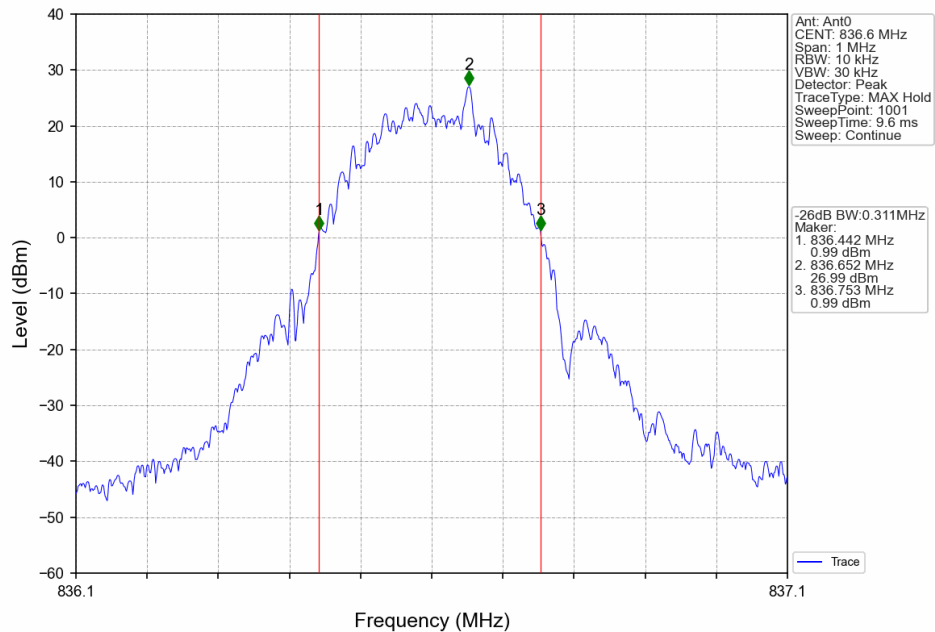
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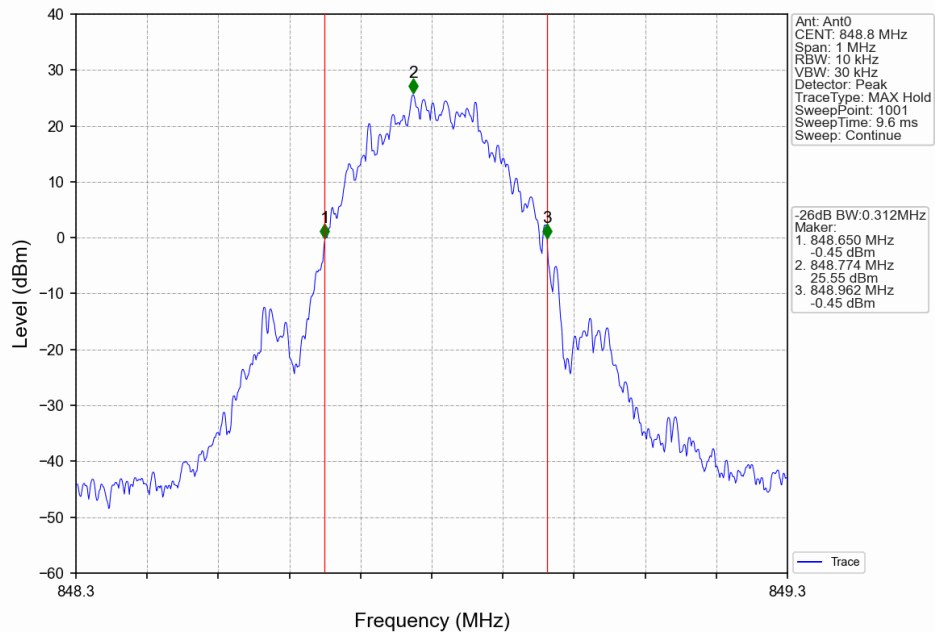
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Rev.: 01

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Report No.: SEWM2311000478RG01

Rev.: 01

Page: 24 of 42

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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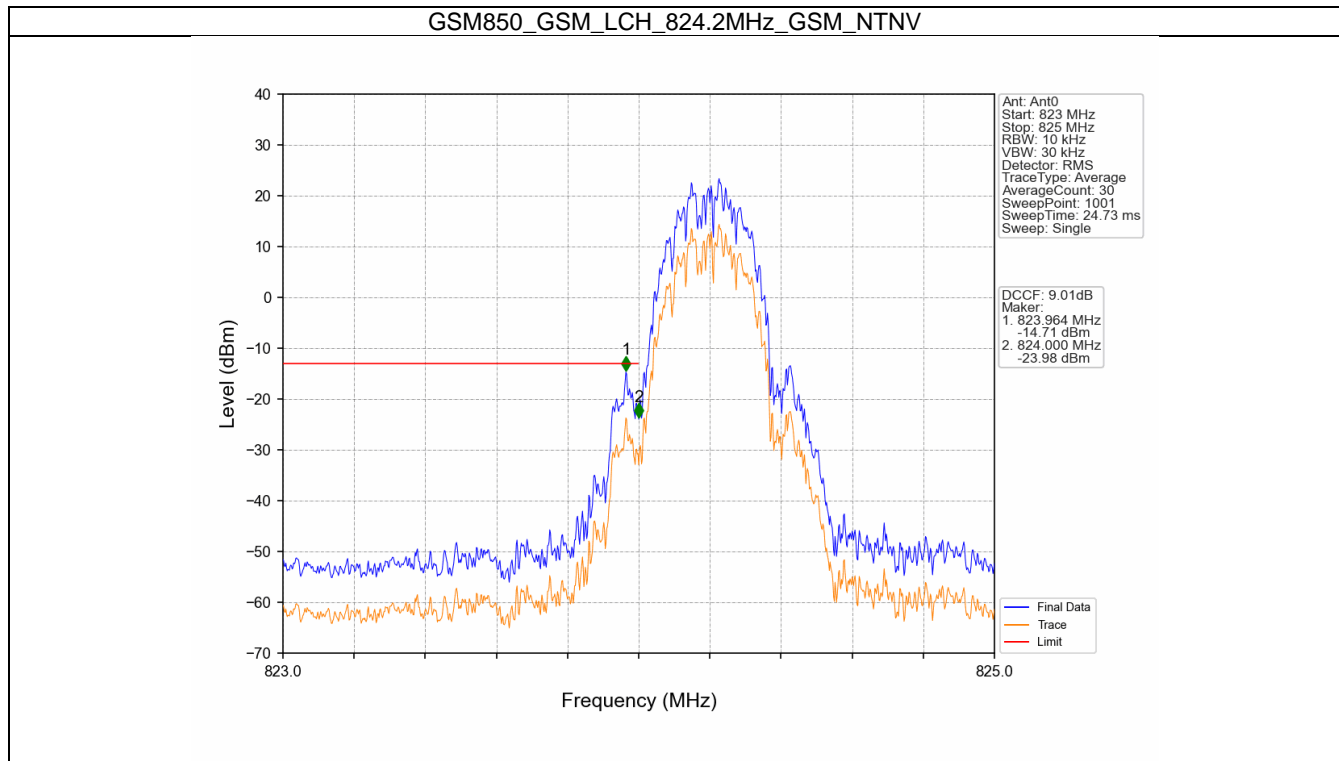
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Rev.: 01

Page: 25 of 42

Test Graph



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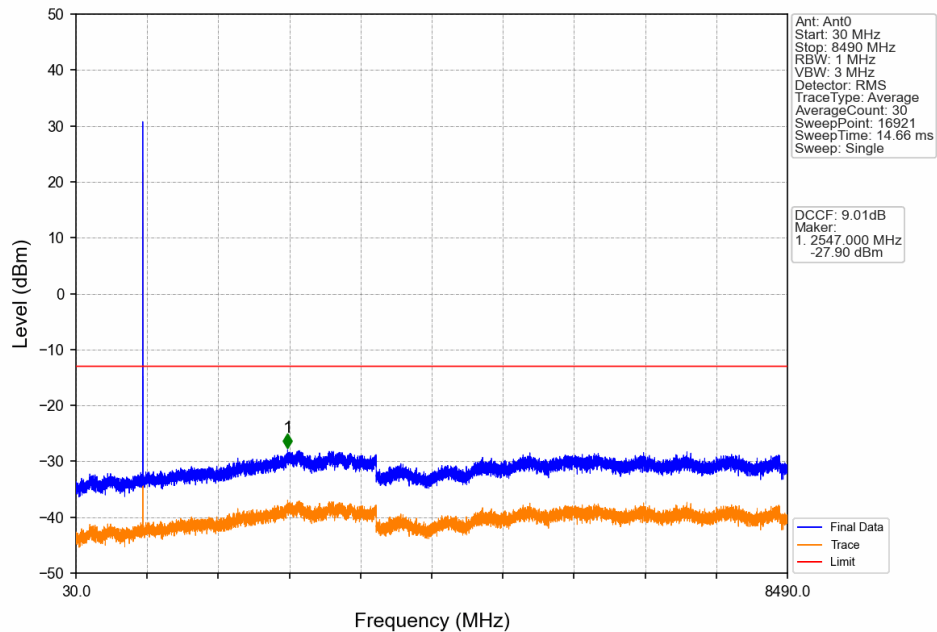
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Report No.: SEWM2311000478RG01

Rev.: 01

Page: 26 of 42

GSM850_GSM_LCH_824.2MHz_GSM_NTNV



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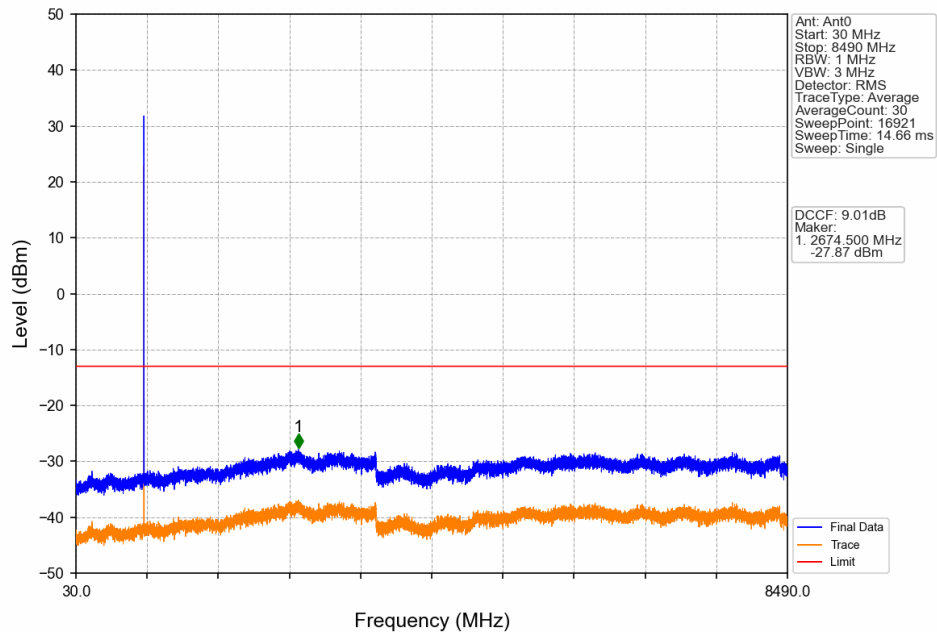
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Rev.: 01

Page: 27 of 42

GSM850_GSM_MCH_836.6MHz_GSM_NTNV



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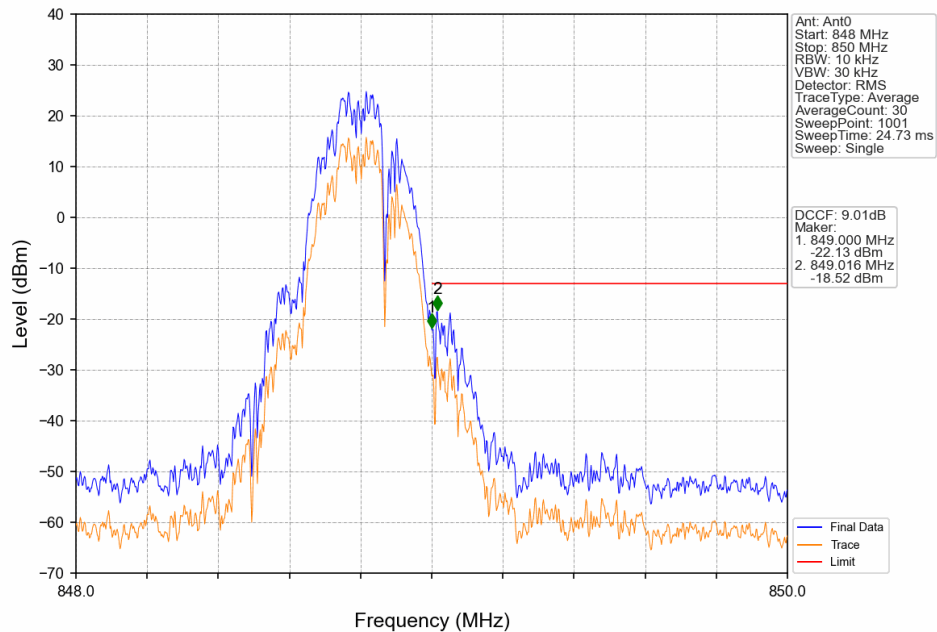
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Rev.: 01

Page: 28 of 42

GSM850_GSM_HCH_848.8MHz_GSM_NTNV



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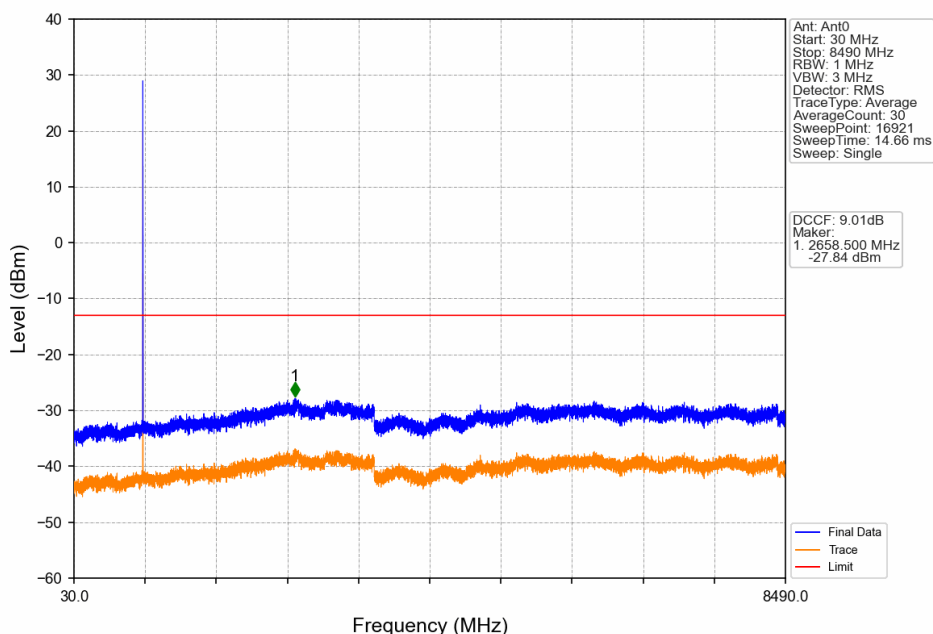
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Report No.: SEWM2311000478RG01

Rev.: 01

Page: 29 of 42

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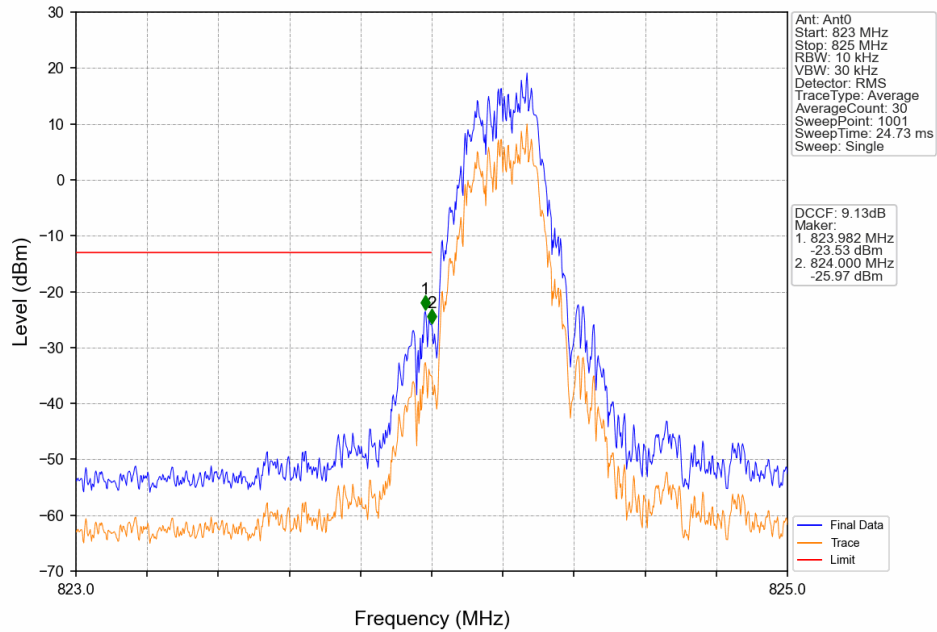
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Report No.: SEWM2311000478RG01

Rev.: 01

Page: 30 of 42

GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



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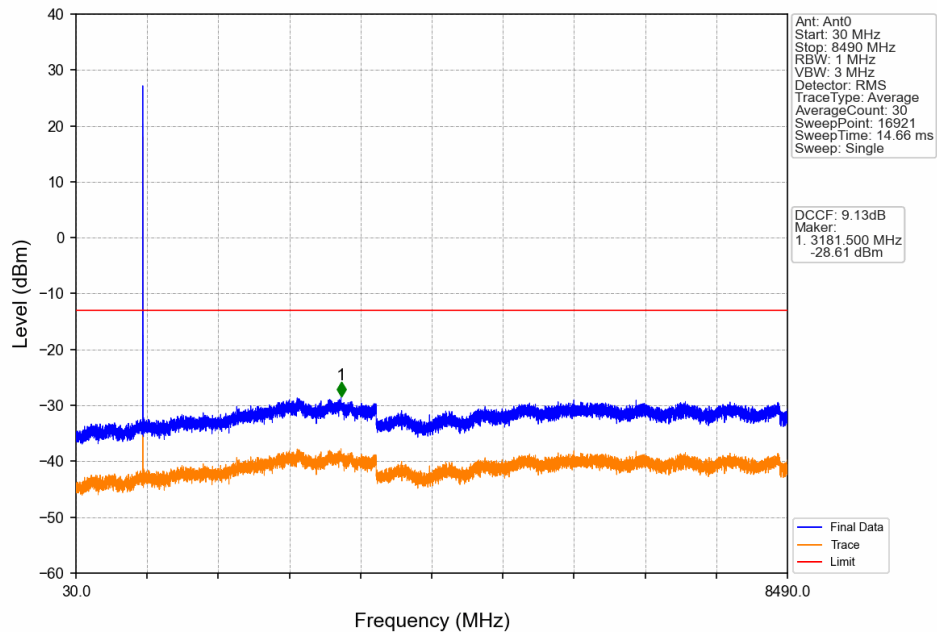
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Report No.: SEWM2311000478RG01

Rev.: 01

Page: 31 of 42

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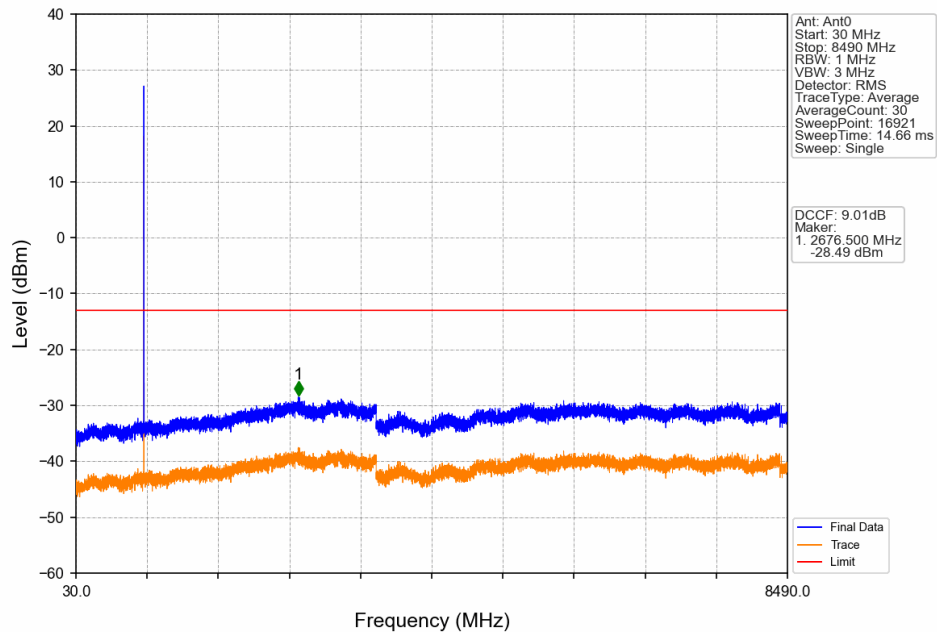
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Report No.: SEWM2311000478RG01

Rev.: 01

Page: 32 of 42

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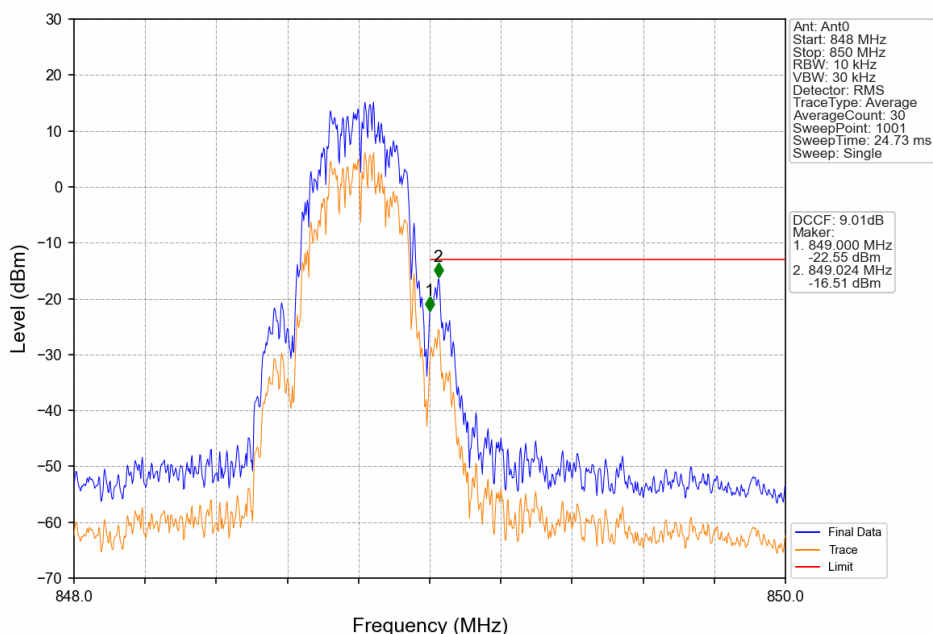
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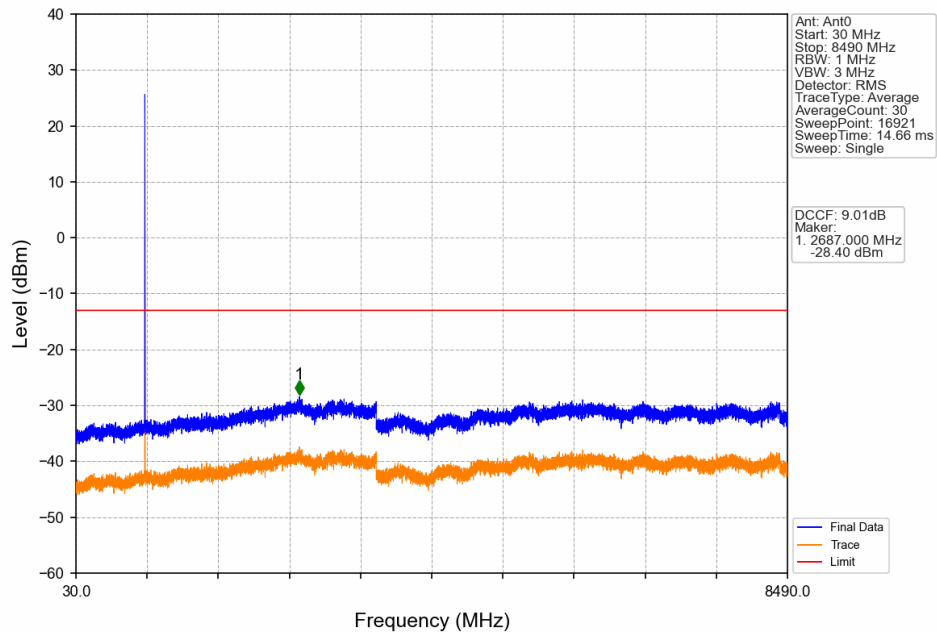
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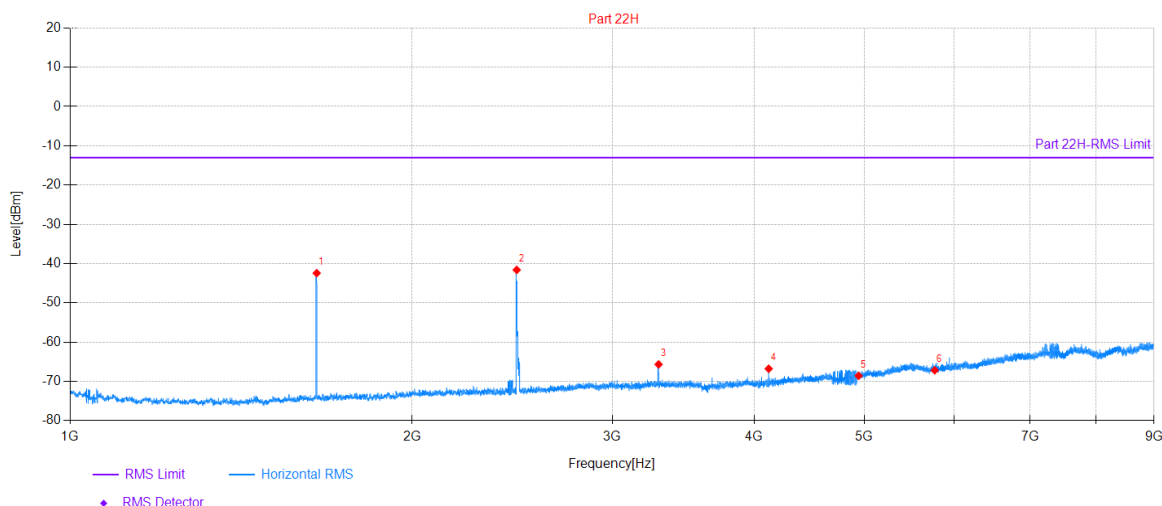
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Page: 35 of 42

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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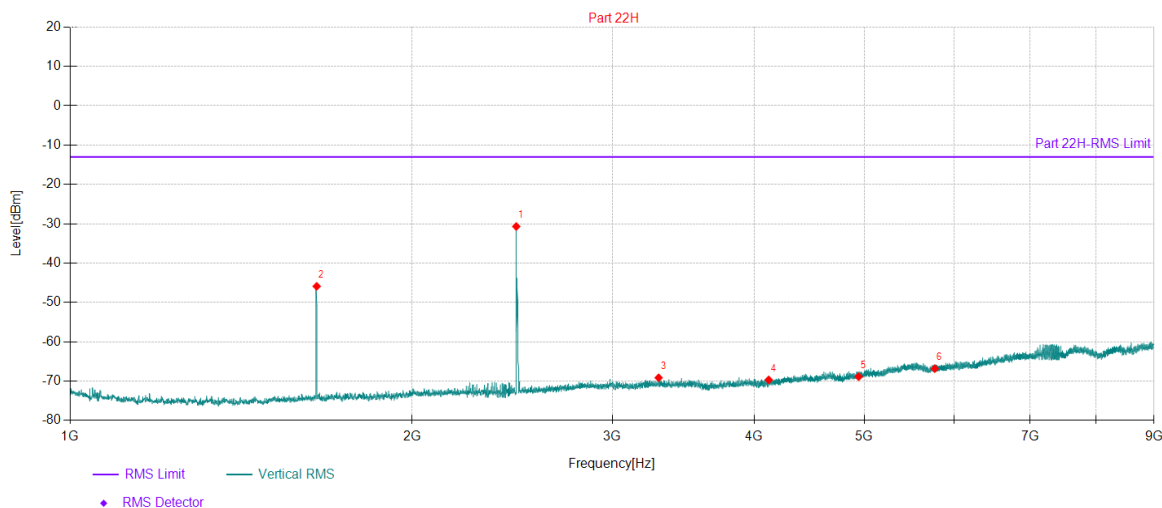
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Report No.: SEWM2311000478RG01

Rev.: 01

Page: 36 of 42

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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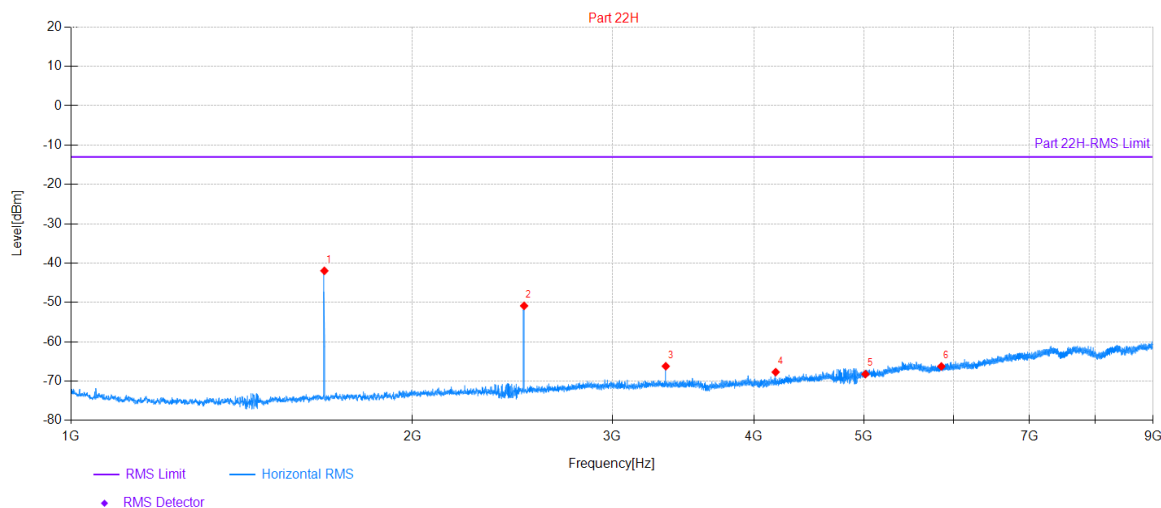


Report No.: SEWM2311000478RG01

Rev.: 01

Page: 37 of 42

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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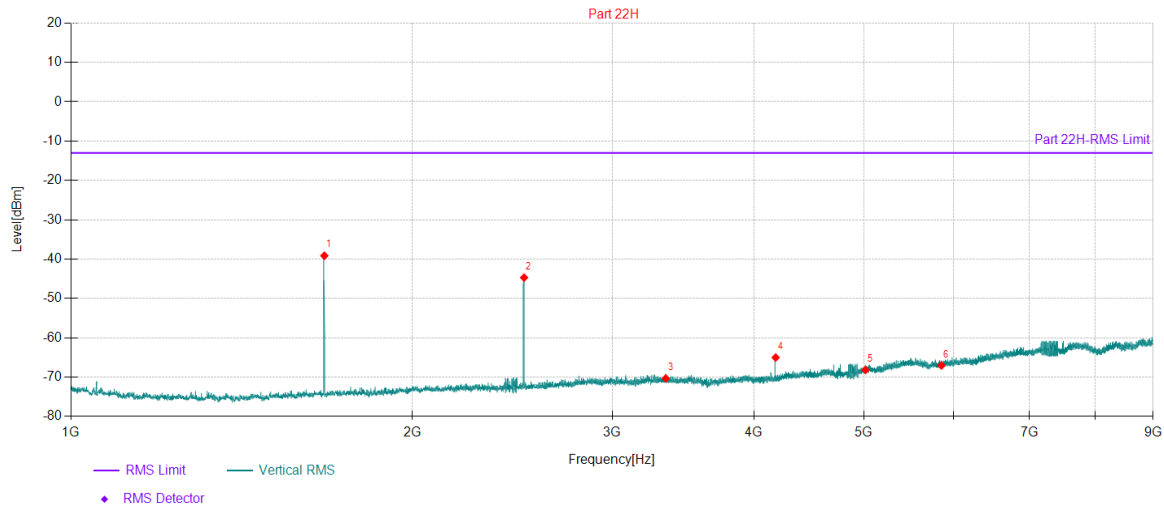


Report No.: SEWM2311000478RG01

Rev.: 01

Page: 38 of 42

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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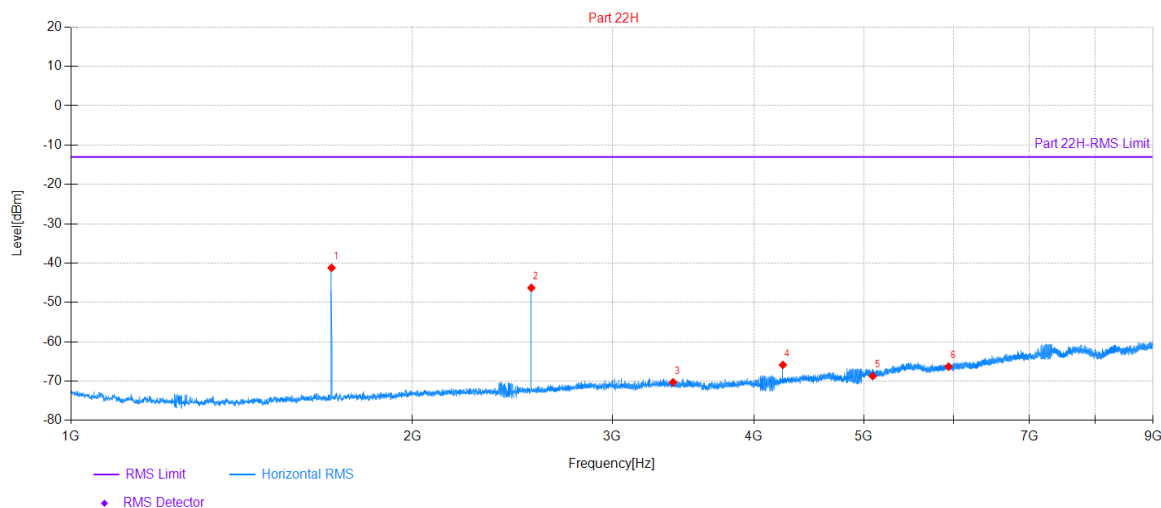


Report No.: SEWM2311000478RG01

Rev.: 01

Page: 39 of 42

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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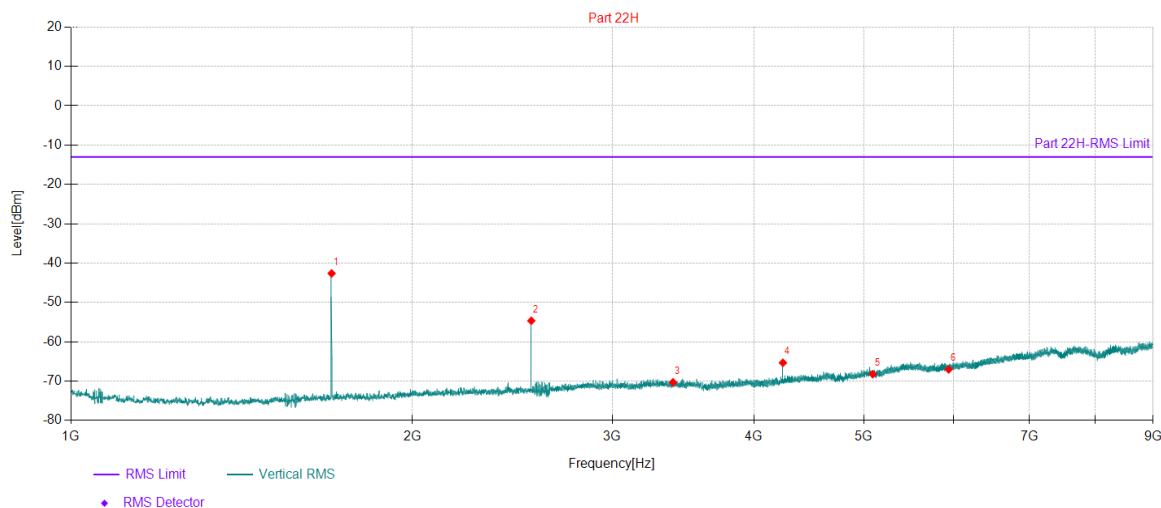
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Report No.: SEWM2311000478RG01

Rev.: 01

Page: 40 of 42

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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Report No.: SEWM2311000478RG01

Rev.: 01

Page: 42 of 42

		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	Pass
			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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