



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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Appendix B.1

GSM 850



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch
Shenzhen Branch Wireless Laboratory

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1. Effective (Isotropic) Radiated Power Output Data

1.1 GSM850_ERP_Ant4

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	32.51	-5.10	25.26	<=38.45	Pass
			836.6	32.60	-5.10	25.35	<=38.45	Pass
			848.8	32.53	-5.10	25.28	<=38.45	Pass
	GPRS	1 TX Slot	824.2	32.52	-5.10	25.27	<=38.45	Pass
		2 TX Slots	824.2	30.15	-5.10	22.90	<=38.45	Pass
		3 TX Slots	824.2	28.12	-5.10	20.87	<=38.45	Pass
		4 TX Slots	824.2	27.06	-5.10	19.81	<=38.45	Pass
		1 TX Slot	836.6	32.61	-5.10	25.36	<=38.45	Pass
		2 TX Slots	836.6	30.19	-5.10	22.94	<=38.45	Pass
		3 TX Slots	836.6	28.15	-5.10	20.90	<=38.45	Pass
		4 TX Slots	836.6	27.12	-5.10	19.87	<=38.45	Pass
		1 TX Slot	848.8	32.53	-5.10	25.28	<=38.45	Pass
		2 TX Slots	848.8	30.14	-5.10	22.89	<=38.45	Pass
		3 TX Slots	848.8	28.08	-5.10	20.83	<=38.45	Pass
		4 TX Slots	848.8	27.01	-5.10	19.76	<=38.45	Pass
	EGPRS	1 TX Slot	824.2	26.62	-5.10	19.37	<=38.45	Pass
		2 TX Slots	824.2	23.78	-5.10	16.53	<=38.45	Pass
		3 TX Slots	824.2	21.46	-5.10	14.21	<=38.45	Pass
		4 TX Slots	824.2	20.09	-5.10	12.84	<=38.45	Pass
		1 TX Slot	836.6	26.72	-5.10	19.47	<=38.45	Pass
		2 TX Slots	836.6	23.69	-5.10	16.44	<=38.45	Pass
		3 TX Slots	836.6	21.51	-5.10	14.26	<=38.45	Pass
		4 TX Slots	836.6	20.24	-5.10	12.99	<=38.45	Pass
		1 TX Slot	848.8	26.81	-5.10	19.56	<=38.45	Pass
		2 TX Slots	848.8	23.75	-5.10	16.50	<=38.45	Pass
		3 TX Slots	848.8	21.58	-5.10	14.33	<=38.45	Pass
		4 TX Slots	848.8	20.33	-5.10	13.08	<=38.45	Pass



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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	-2.357	-0.0029	-2.5 to 2.5	Pass
			3.84	-10.041	-0.0122	-2.5 to 2.5	Pass
			4.3	-6.877	-0.0083	-2.5 to 2.5	Pass
		-30	3.84	-9.137	-0.0111	-2.5 to 2.5	Pass
		-20	3.84	-7.490	-0.0091	-2.5 to 2.5	Pass
		-10	3.84	-5.424	-0.0066	-2.5 to 2.5	Pass
		0	3.84	-8.814	-0.0107	-2.5 to 2.5	Pass
		10	3.84	-6.167	-0.0075	-2.5 to 2.5	Pass
		30	3.84	-5.585	-0.0068	-2.5 to 2.5	Pass
		40	3.84	-4.811	-0.0058	-2.5 to 2.5	Pass
		50	3.84	-6.199	-0.0075	-2.5 to 2.5	Pass
	836.6	20	3.6	-4.294	-0.0051	-2.5 to 2.5	Pass
			3.84	-5.521	-0.0066	-2.5 to 2.5	Pass
			4.3	-9.944	-0.0119	-2.5 to 2.5	Pass
		-30	3.84	-5.295	-0.0063	-2.5 to 2.5	Pass
		-20	3.84	-6.651	-0.0080	-2.5 to 2.5	Pass
		-10	3.84	-3.067	-0.0037	-2.5 to 2.5	Pass
		0	3.84	-5.069	-0.0061	-2.5 to 2.5	Pass
		10	3.84	-3.422	-0.0041	-2.5 to 2.5	Pass
		30	3.84	-7.103	-0.0085	-2.5 to 2.5	Pass
		40	3.84	-2.066	-0.0025	-2.5 to 2.5	Pass
		50	3.84	-9.557	-0.0114	-2.5 to 2.5	Pass
	848.8	20	3.6	-1.905	-0.0022	-2.5 to 2.5	Pass
			3.84	-6.974	-0.0082	-2.5 to 2.5	Pass
			4.3	-8.620	-0.0102	-2.5 to 2.5	Pass
		-30	3.84	-9.492	-0.0112	-2.5 to 2.5	Pass
		-20	3.84	-7.297	-0.0086	-2.5 to 2.5	Pass
		-10	3.84	-5.650	-0.0067	-2.5 to 2.5	Pass
		0	3.84	-2.389	-0.0028	-2.5 to 2.5	Pass
		10	3.84	-2.518	-0.0030	-2.5 to 2.5	Pass
		30	3.84	-7.910	-0.0093	-2.5 to 2.5	Pass
		40	3.84	-5.521	-0.0065	-2.5 to 2.5	Pass
		50	3.84	-4.036	-0.0048	-2.5 to 2.5	Pass
GPRS	824.2	20	3.6	-16.434	-0.0199	-2.5 to 2.5	Pass
			3.84	-10.719	-0.0130	-2.5 to 2.5	Pass
			4.3	-8.556	-0.0104	-2.5 to 2.5	Pass
		-30	3.84	-11.009	-0.0134	-2.5 to 2.5	Pass
		-20	3.84	-11.332	-0.0137	-2.5 to 2.5	Pass



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		-10	3.84	-10.687	-0.0130	-2.5 to 2.5	Pass
		0	3.84	-7.652	-0.0093	-2.5 to 2.5	Pass
		10	3.84	-11.332	-0.0137	-2.5 to 2.5	Pass
		30	3.84	-11.849	-0.0144	-2.5 to 2.5	Pass
		40	3.84	-11.526	-0.0140	-2.5 to 2.5	Pass
	836.6	50	3.84	-13.883	-0.0168	-2.5 to 2.5	Pass
		20	3.6	-14.367	-0.0172	-2.5 to 2.5	Pass
			3.84	-10.073	-0.0120	-2.5 to 2.5	Pass
			4.3	-10.783	-0.0129	-2.5 to 2.5	Pass
		-30	3.84	-10.170	-0.0122	-2.5 to 2.5	Pass
		-20	3.84	-10.331	-0.0123	-2.5 to 2.5	Pass
		-10	3.84	-7.264	-0.0087	-2.5 to 2.5	Pass
		0	3.84	-10.331	-0.0123	-2.5 to 2.5	Pass
		10	3.84	-8.879	-0.0106	-2.5 to 2.5	Pass
		30	3.84	-8.523	-0.0102	-2.5 to 2.5	Pass
		40	3.84	-7.975	-0.0095	-2.5 to 2.5	Pass
		50	3.84	-8.265	-0.0099	-2.5 to 2.5	Pass
	848.8	20	3.6	-10.267	-0.0121	-2.5 to 2.5	Pass
			3.84	-9.298	-0.0110	-2.5 to 2.5	Pass
			4.3	-6.619	-0.0078	-2.5 to 2.5	Pass
		-30	3.84	-7.361	-0.0087	-2.5 to 2.5	Pass
		-20	3.84	-12.204	-0.0144	-2.5 to 2.5	Pass
		-10	3.84	-8.749	-0.0103	-2.5 to 2.5	Pass
		0	3.84	-11.429	-0.0135	-2.5 to 2.5	Pass
		10	3.84	-7.006	-0.0083	-2.5 to 2.5	Pass
		30	3.84	-7.910	-0.0093	-2.5 to 2.5	Pass
		40	3.84	-11.235	-0.0132	-2.5 to 2.5	Pass
EGPRS	824.2	20	3.6	-4.811	-0.0058	-2.5 to 2.5	Pass
			3.84	-6.651	-0.0081	-2.5 to 2.5	Pass
			4.3	-6.263	-0.0076	-2.5 to 2.5	Pass
		-30	3.84	-7.426	-0.0090	-2.5 to 2.5	Pass
		-20	3.84	-5.133	-0.0062	-2.5 to 2.5	Pass
		-10	3.84	-6.070	-0.0074	-2.5 to 2.5	Pass
		0	3.84	-5.456	-0.0066	-2.5 to 2.5	Pass
		10	3.84	-5.166	-0.0063	-2.5 to 2.5	Pass
		30	3.84	-6.199	-0.0075	-2.5 to 2.5	Pass
		40	3.84	-4.165	-0.0051	-2.5 to 2.5	Pass
	836.6	20	3.6	-8.846	-0.0107	-2.5 to 2.5	Pass
			3.6	-5.779	-0.0069	-2.5 to 2.5	Pass
			3.84	-8.620	-0.0103	-2.5 to 2.5	Pass
			4.3	-6.683	-0.0080	-2.5 to 2.5	Pass
		-30	3.84	-7.845	-0.0094	-2.5 to 2.5	Pass
		-20	3.84	-8.685	-0.0104	-2.5 to 2.5	Pass
		-10	3.84	-6.780	-0.0081	-2.5 to 2.5	Pass
		0	3.84	-4.003	-0.0048	-2.5 to 2.5	Pass
		10	3.84	-5.650	-0.0068	-2.5 to 2.5	Pass
		30	3.84	-7.038	-0.0084	-2.5 to 2.5	Pass



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		40	3.84	-6.619	-0.0079	-2.5 to 2.5	Pass
		50	3.84	-10.105	-0.0121	-2.5 to 2.5	Pass
	848.8	20	3.6	-10.170	-0.0120	-2.5 to 2.5	Pass
			3.84	-10.428	-0.0123	-2.5 to 2.5	Pass
			4.3	-6.748	-0.0080	-2.5 to 2.5	Pass
		-30	3.84	-13.528	-0.0159	-2.5 to 2.5	Pass
		-20	3.84	-11.720	-0.0138	-2.5 to 2.5	Pass
		-10	3.84	-8.975	-0.0106	-2.5 to 2.5	Pass
		0	3.84	-9.169	-0.0108	-2.5 to 2.5	Pass
		10	3.84	-11.139	-0.0131	-2.5 to 2.5	Pass
		30	3.84	-9.460	-0.0111	-2.5 to 2.5	Pass
		40	3.84	-11.139	-0.0131	-2.5 to 2.5	Pass
		50	3.84	-9.363	-0.0110	-2.5 to 2.5	Pass



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3. 99% & 26dB Bandwidth

3.1 GSM850_OBW

3.1.1 Test Result

Band: GSM850						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	0.251	/	Pass
			836.6	0.241	/	Pass
			848.8	0.247	/	Pass
	GPRS	1 TX Slot	824.2	0.248	/	Pass
			836.6	0.252	/	Pass
			848.8	0.248	/	Pass
	EGPRS	1 TX Slot	824.2	0.249	/	Pass
			836.6	0.244	/	Pass
			848.8	0.255	/	Pass



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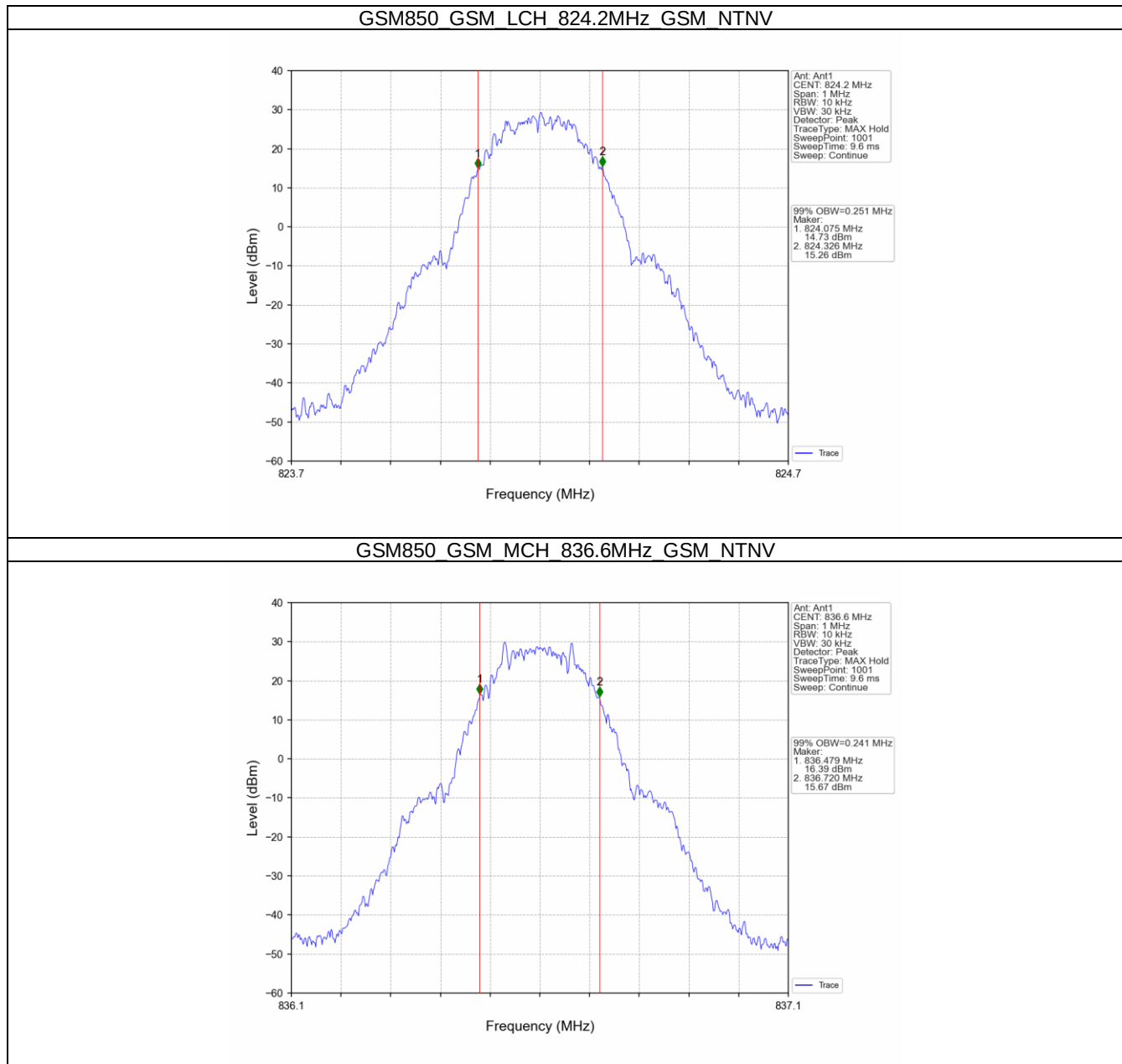
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3.1.2 Test Graph



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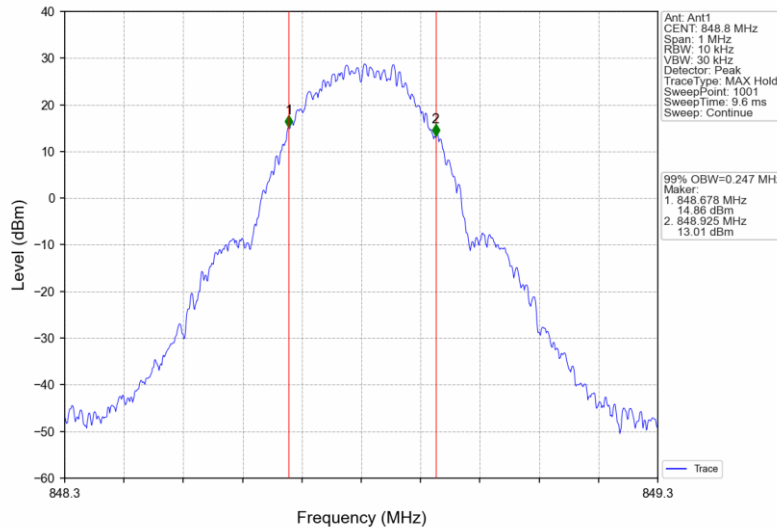
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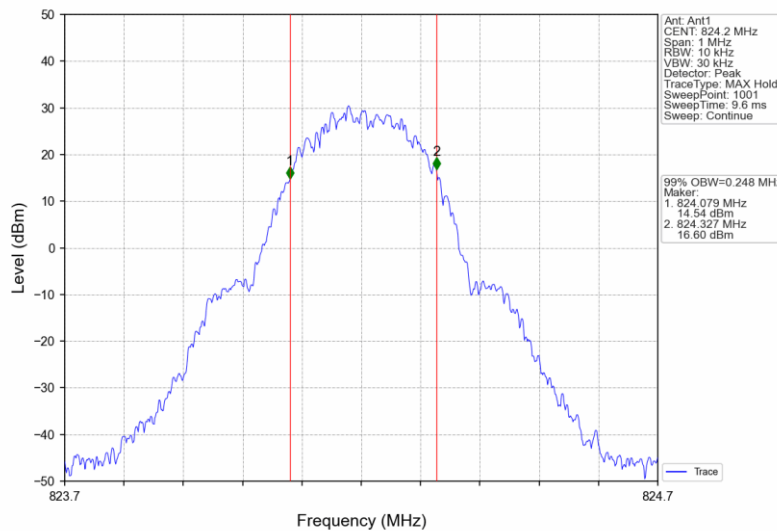
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GSM850_GSM_HCH_848.8MHz_GSM_NTNV



GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



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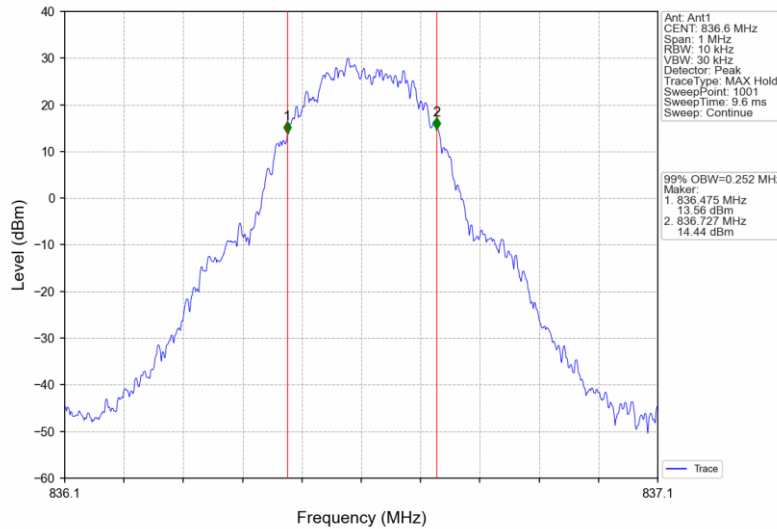
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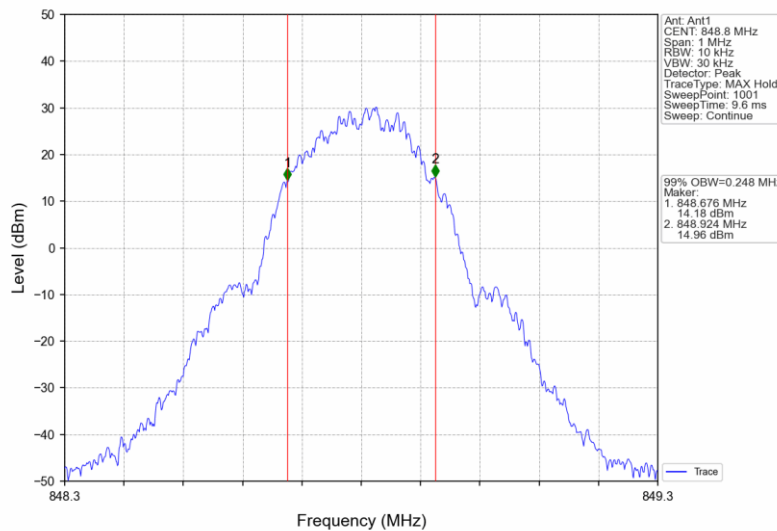
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GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



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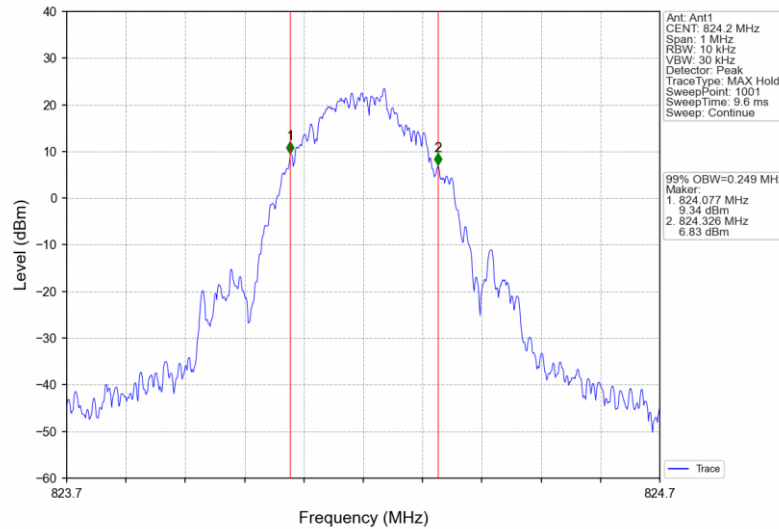
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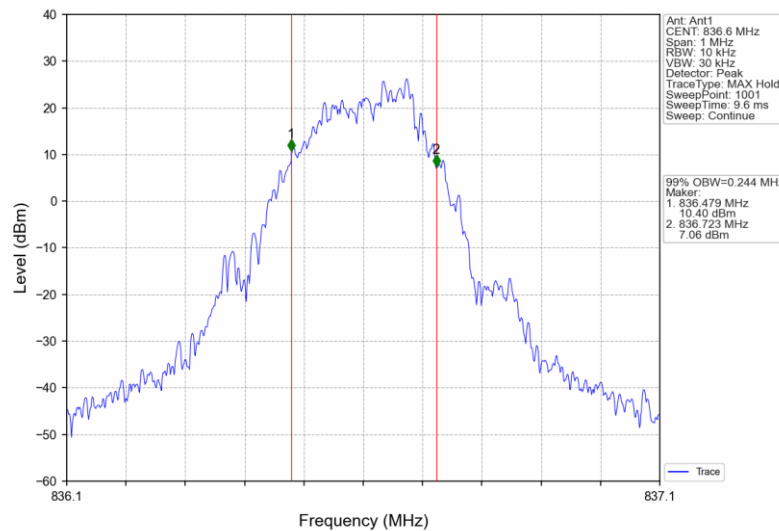
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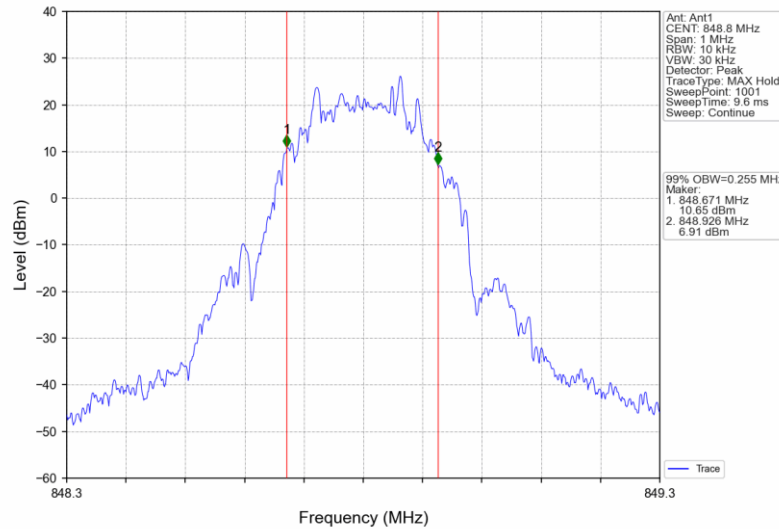
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3.2 GSM850_XDB

3.2.1 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	0.325	/	Pass
	GPRS	1 TX Slot	824.2	0.317	/	Pass
			836.6	0.318	/	Pass
			848.8	0.310	/	Pass
	EGPRS	1 TX Slot	824.2	0.317	/	Pass
			836.6	0.322	/	Pass
			848.8	0.311	/	Pass



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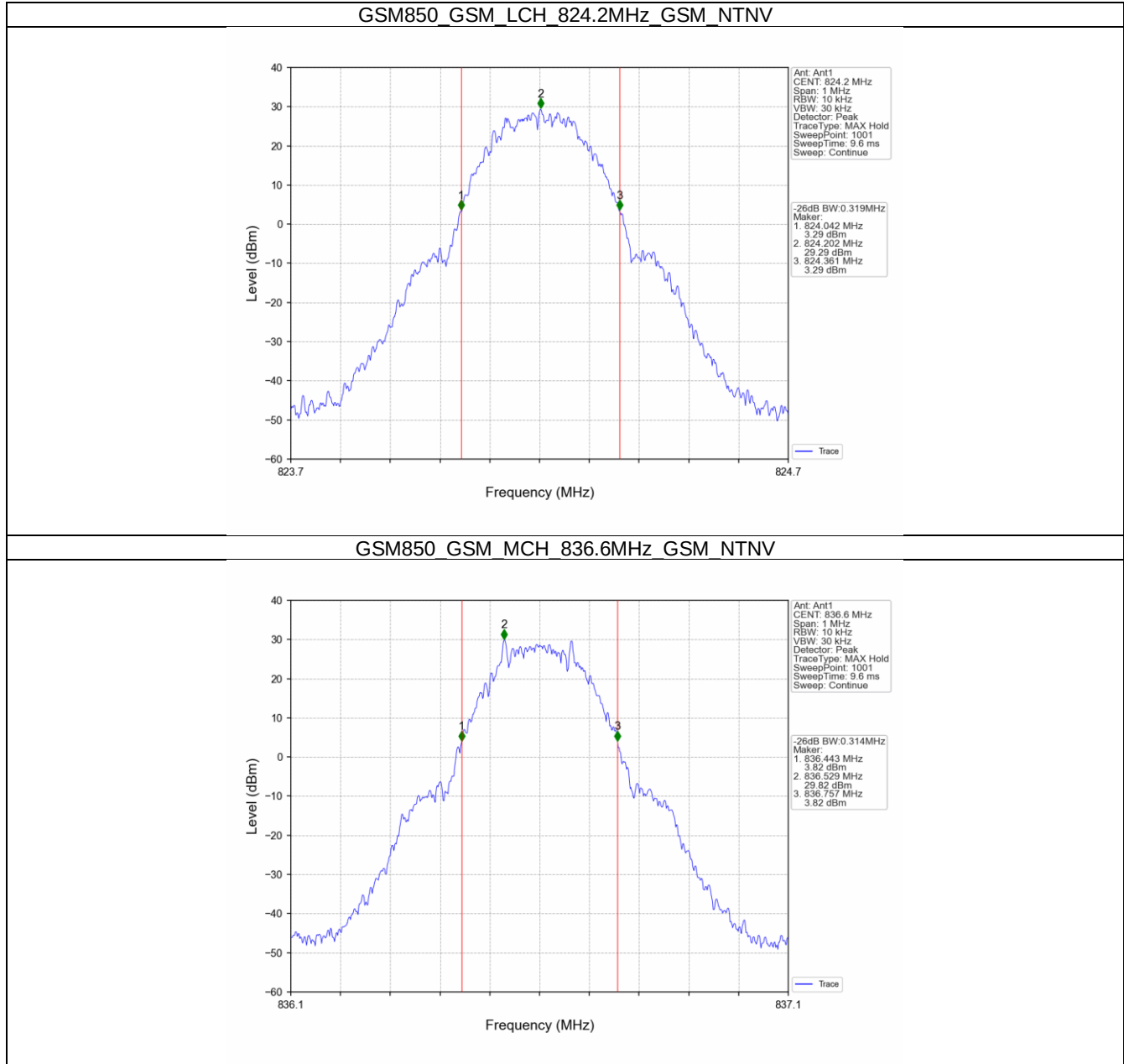
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3.2.2 Test Graph



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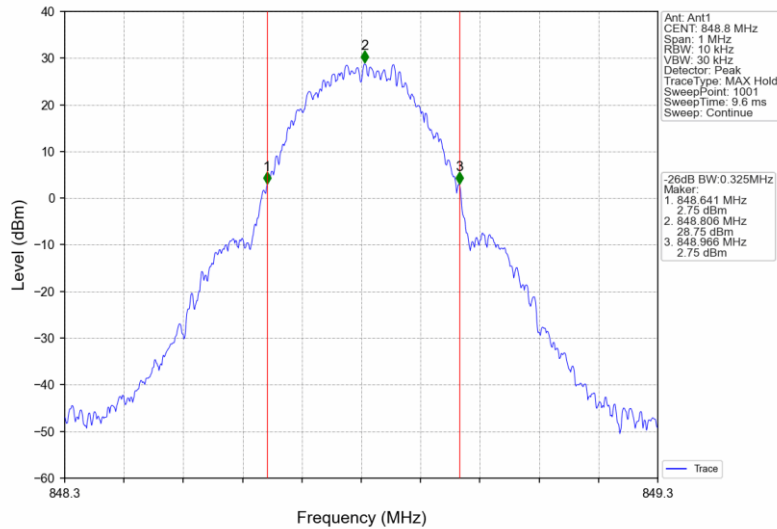
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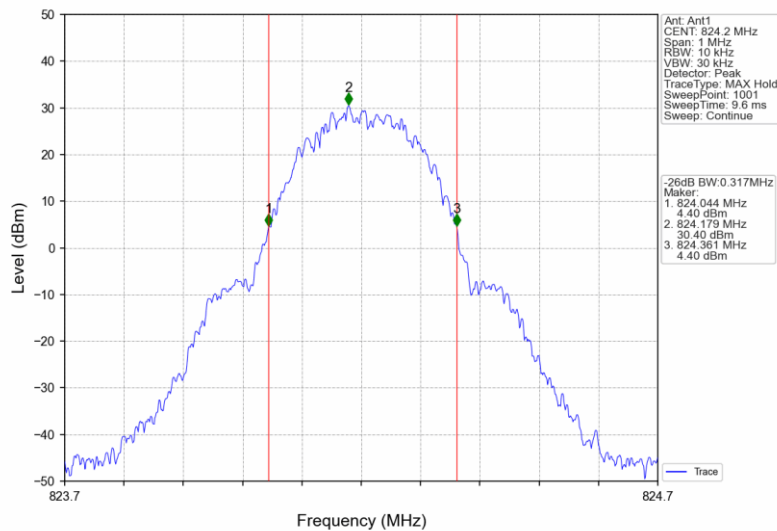
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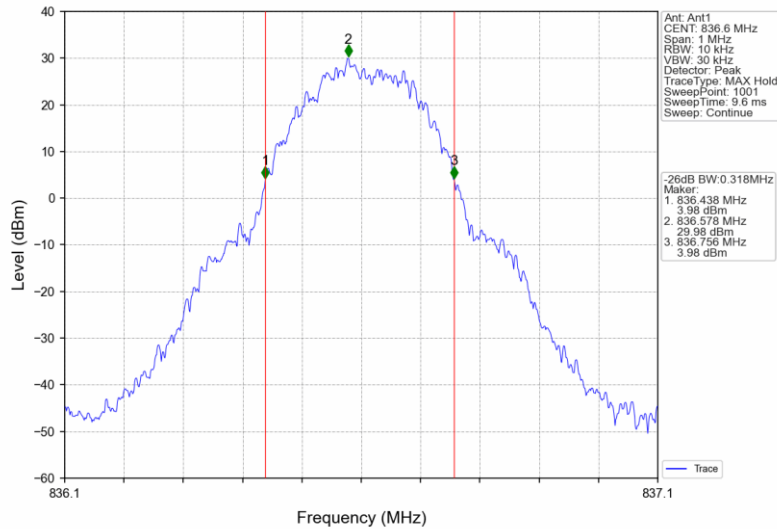
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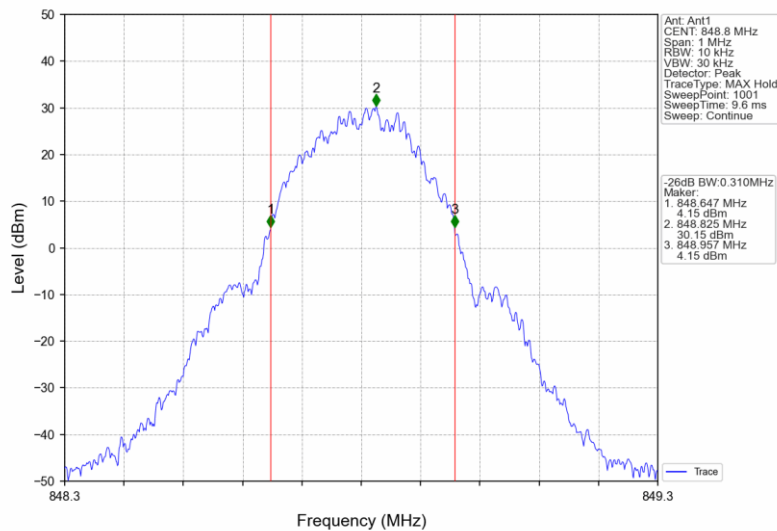
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GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



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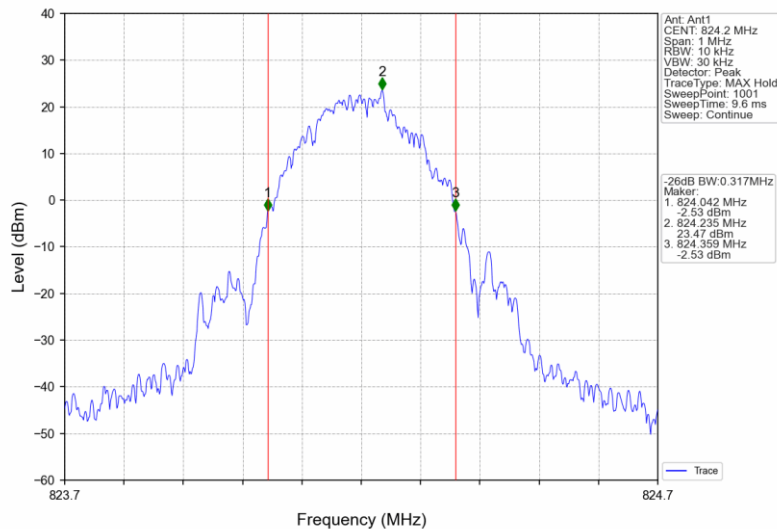
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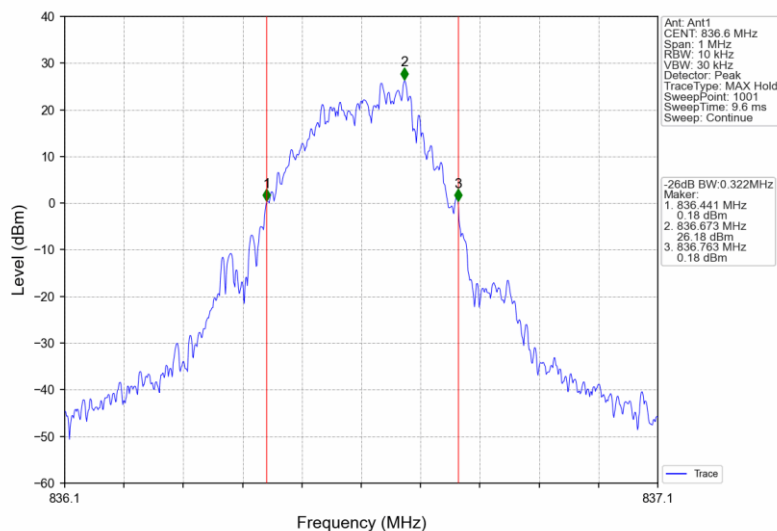
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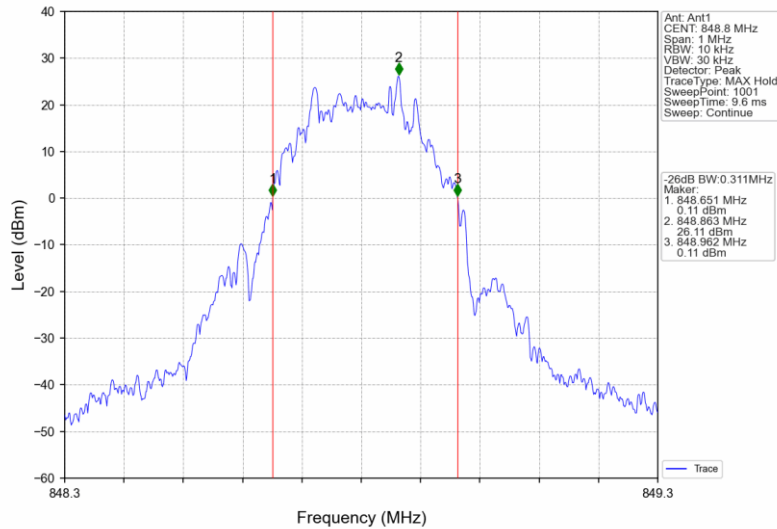
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4. Peak-Average Ratio

4.1 GSM850

4.1.1 Test Result

Band: GSM850						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	9.57	<=13	Pass
			836.6	9.67	<=13	Pass
			848.8	9.30	<=13	Pass
	GPRS	4 TX Slots	824.2	9.59	<=13	Pass
			836.6	3.62	<=13	Pass
			848.8	3.63	<=13	Pass
	EGPRS	4 TX Slots	824.2	8.60	<=13	Pass
			836.6	7.43	<=13	Pass
			848.8	7.31	<=13	Pass



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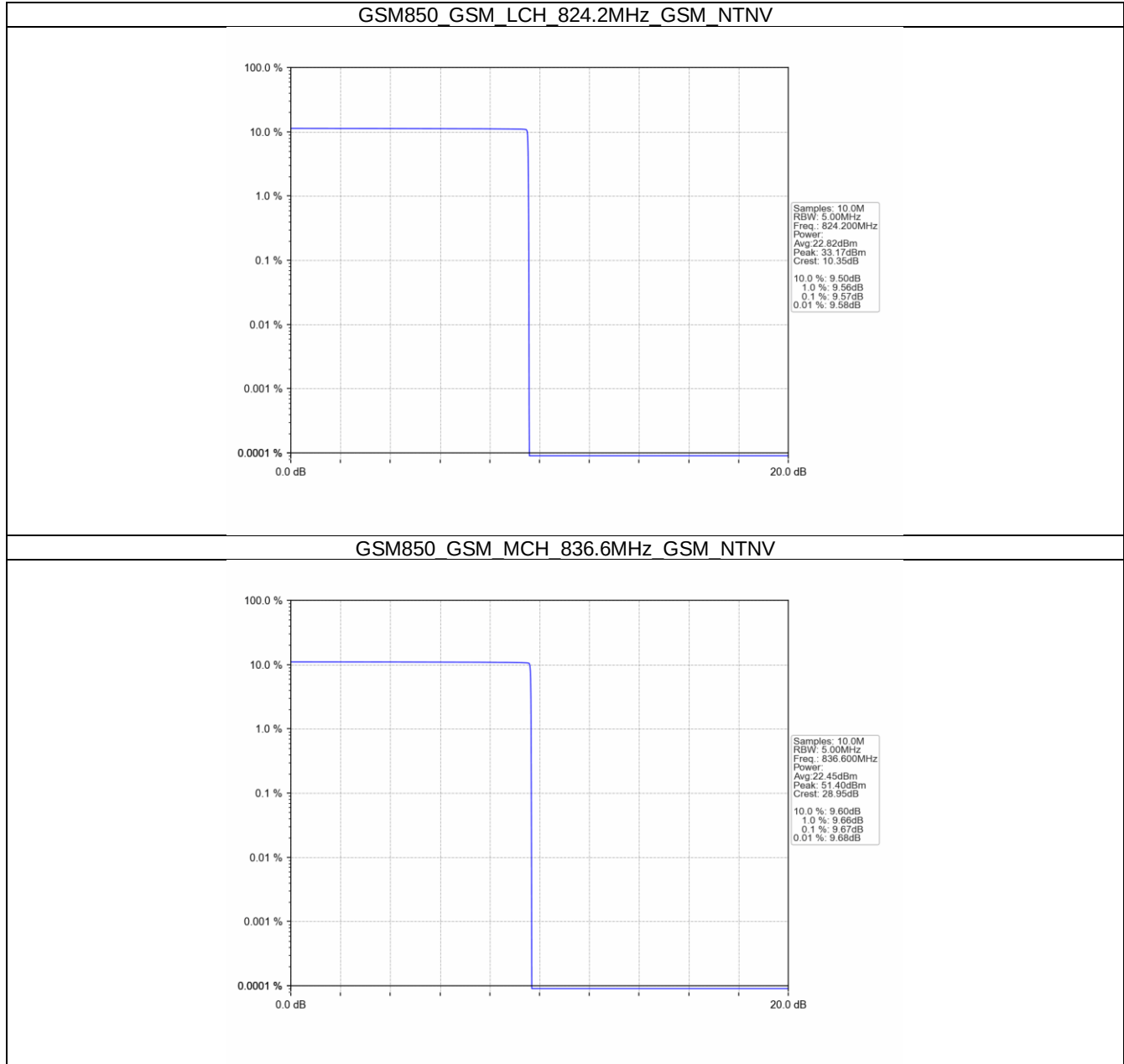
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4.1.2 Test Graph



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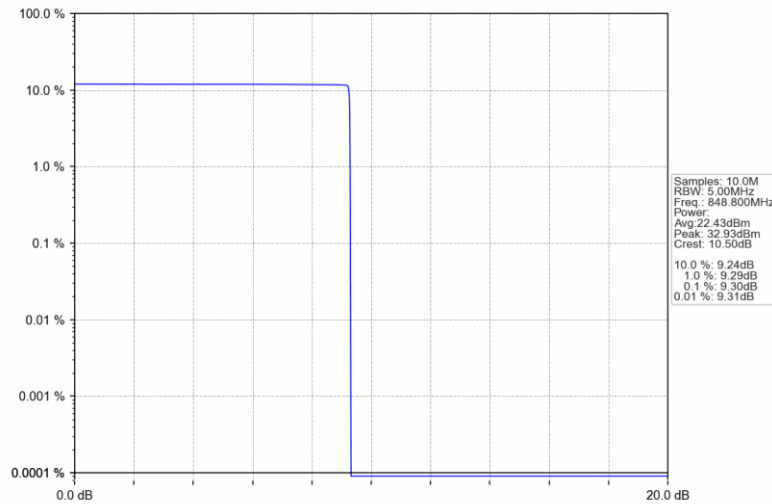
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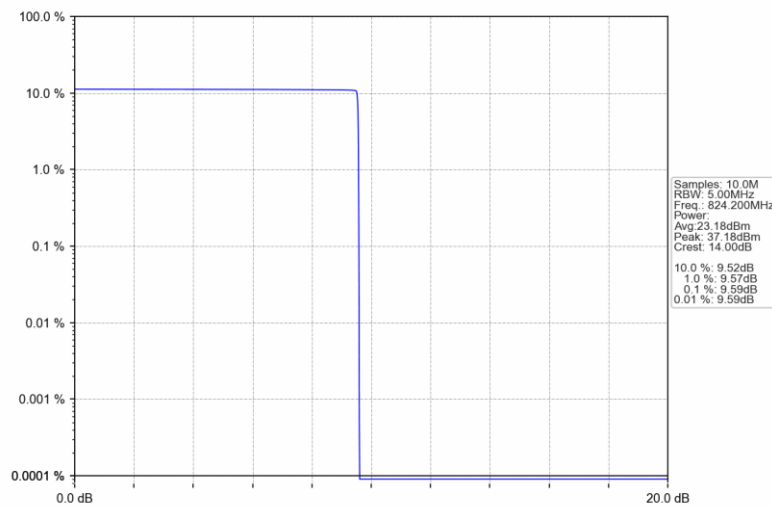
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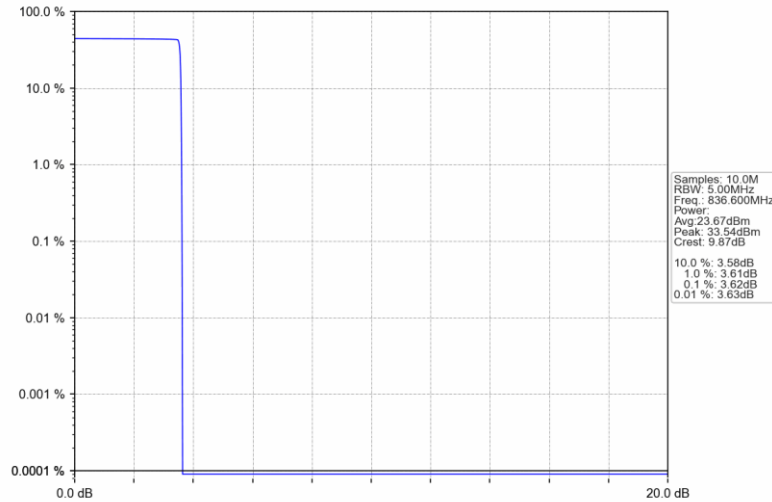
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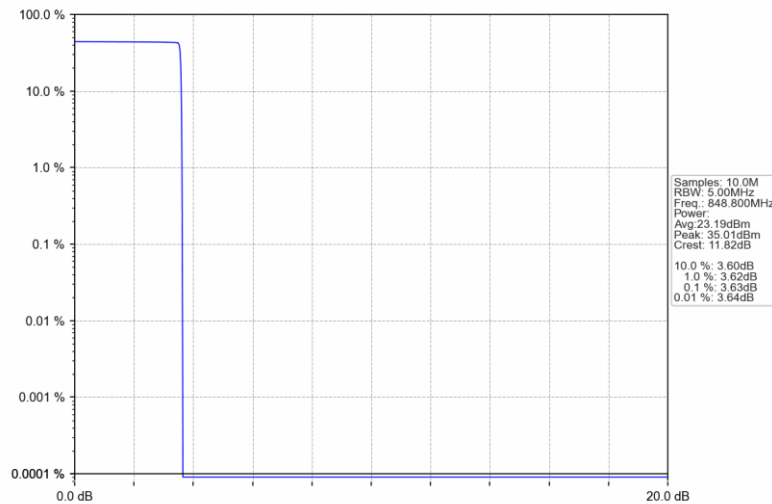
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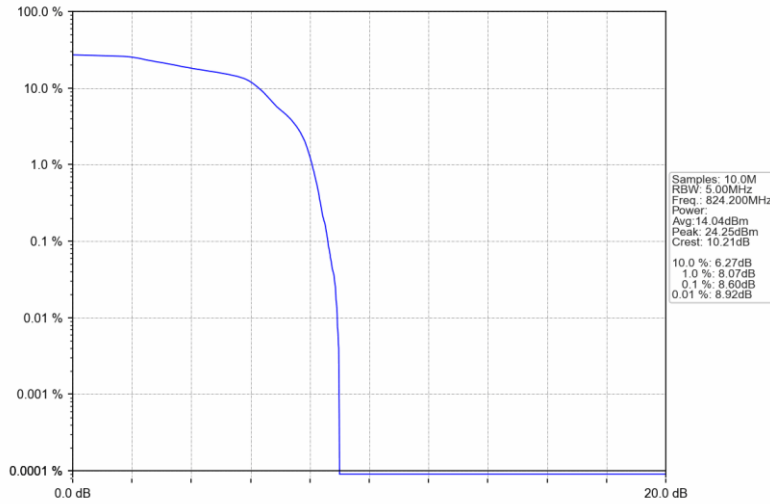
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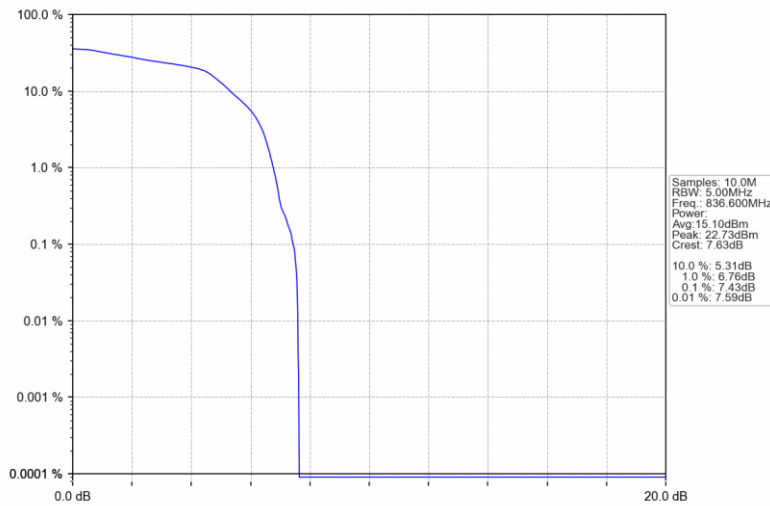
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GSM850_EGPRS_LCH_824.2MHz_4 TX Slots_NTNV



GSM850_EGPRS_MCH_836.6MHz_4 TX Slots_NTNV



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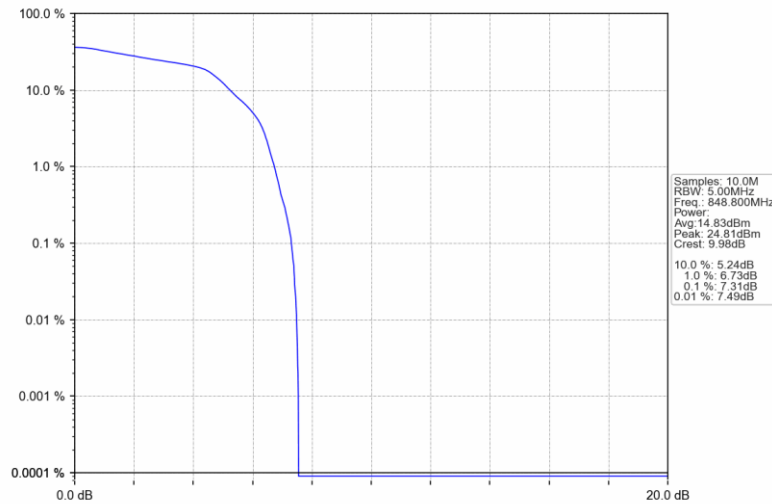
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GSM850_EGPRS_HCH_848.8MHz_4 TX Slots_NTNV



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5. Spurious Emission & Band Edges

5.1 GSM850

5.1.1 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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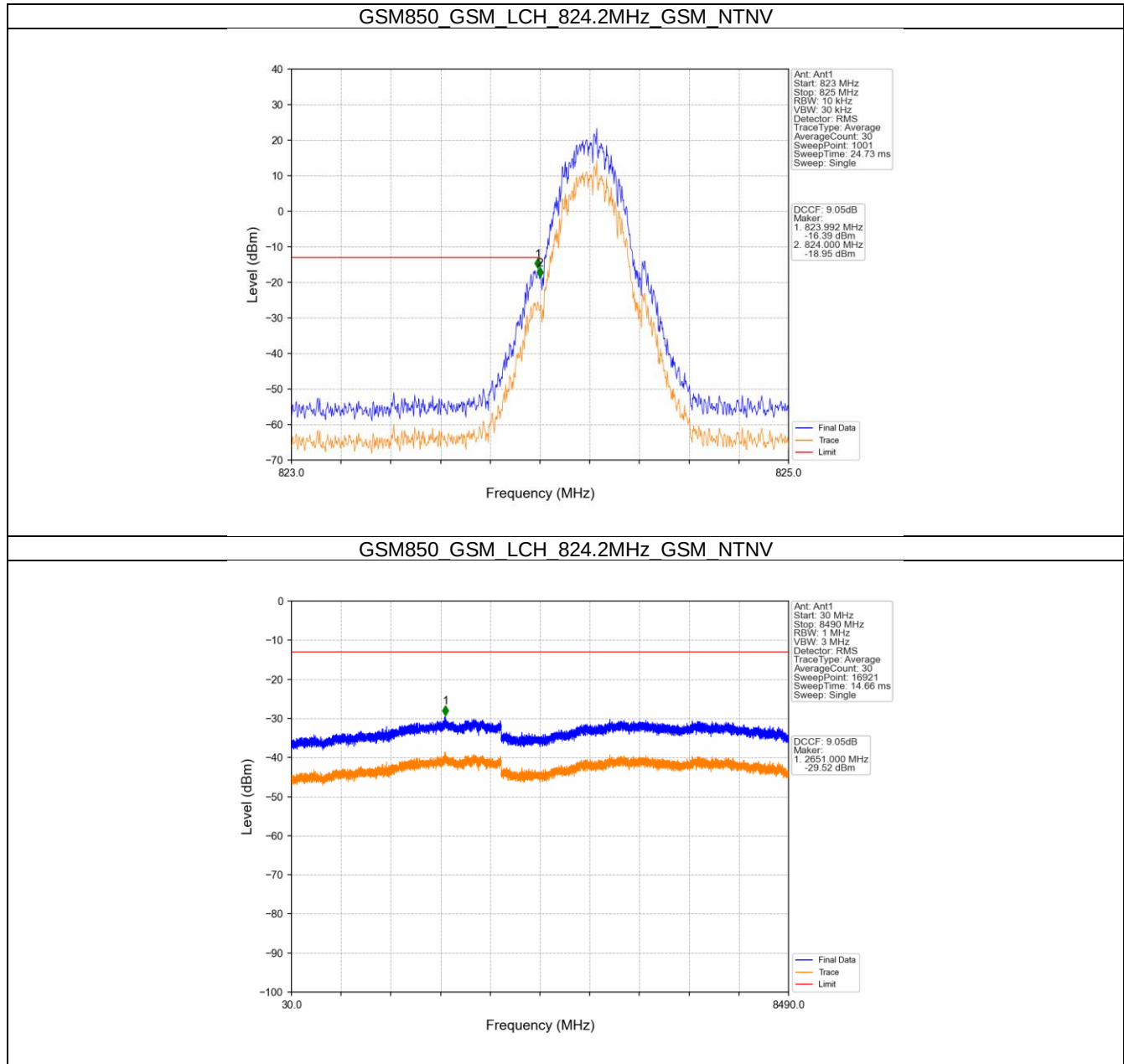
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5.1.2 Test Graph



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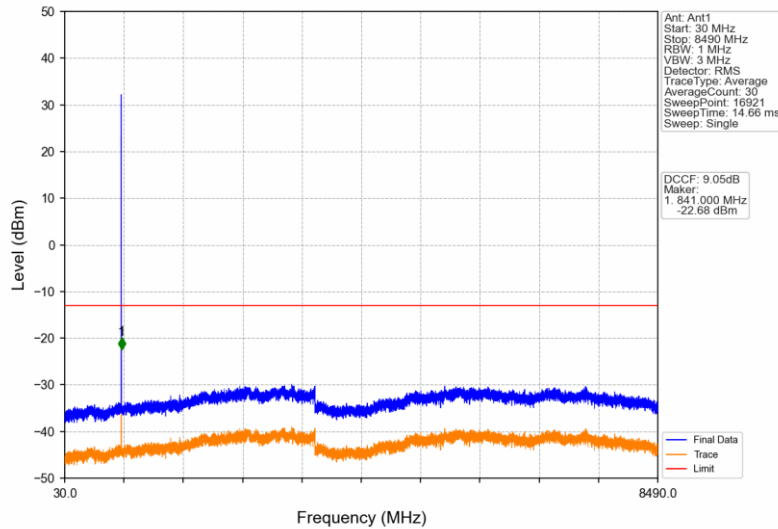
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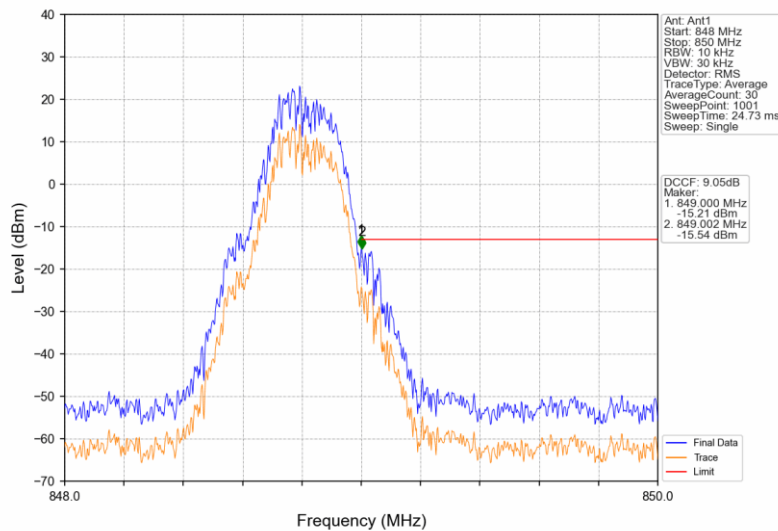
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GSM850_GSM_MCH_836.6MHz_GSM_NTNV



GSM850_GSM_HCH_848.8MHz_GSM_NTNV



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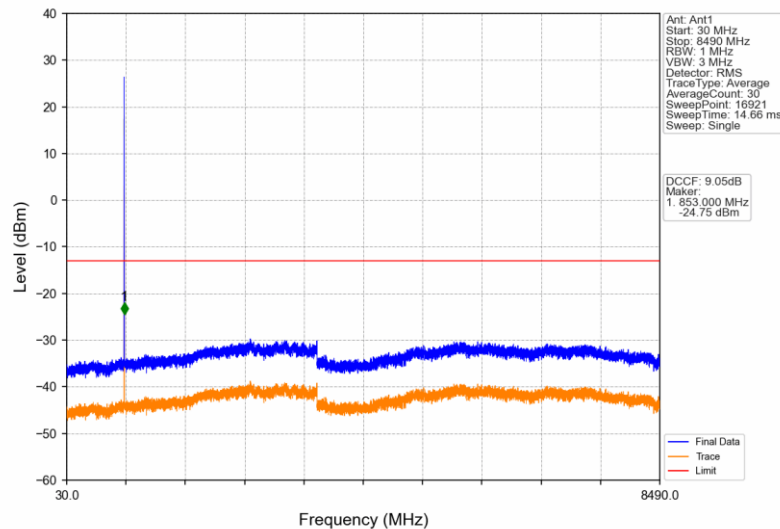
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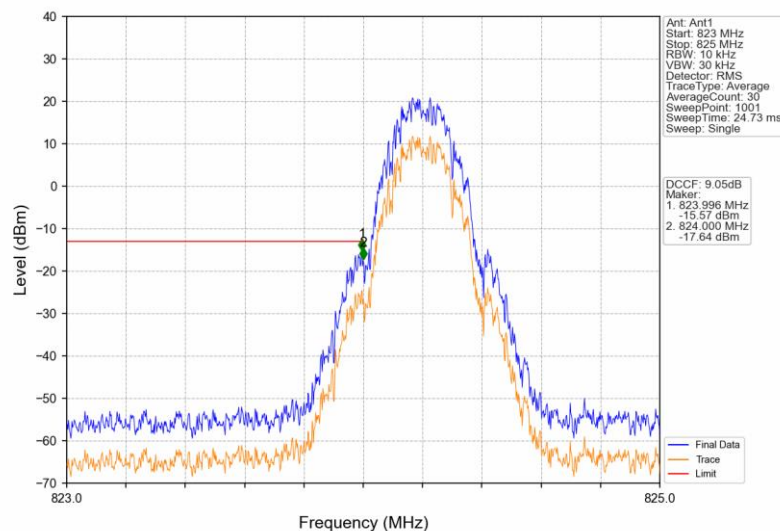
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GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



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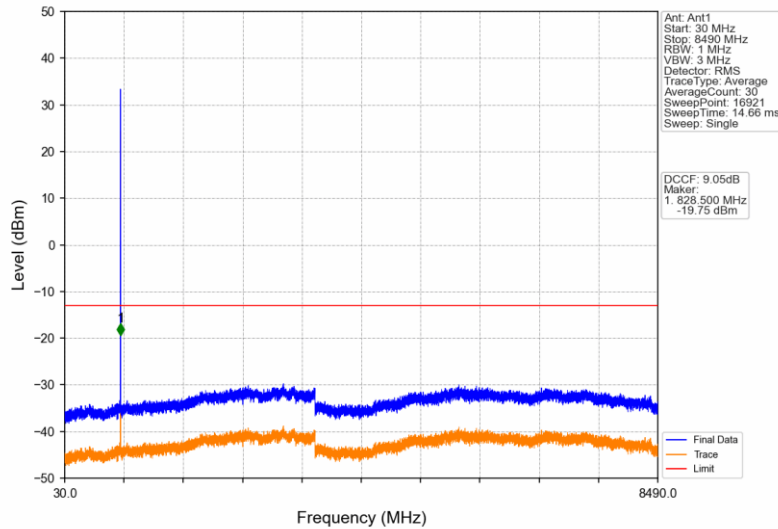
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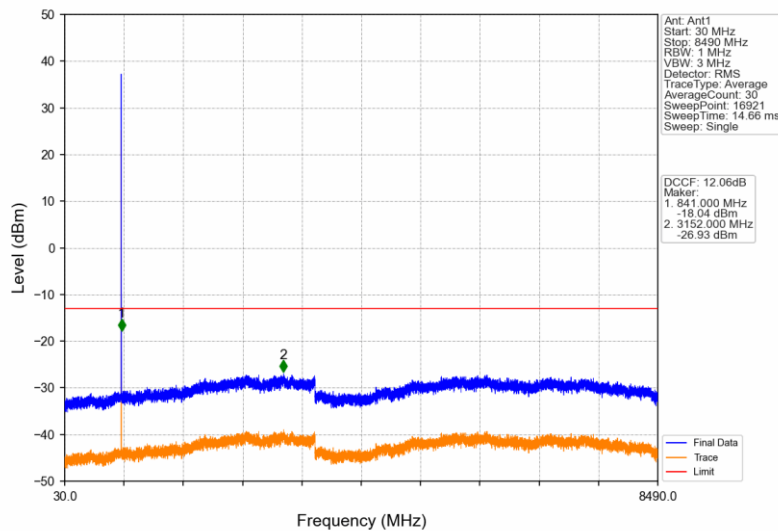
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GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



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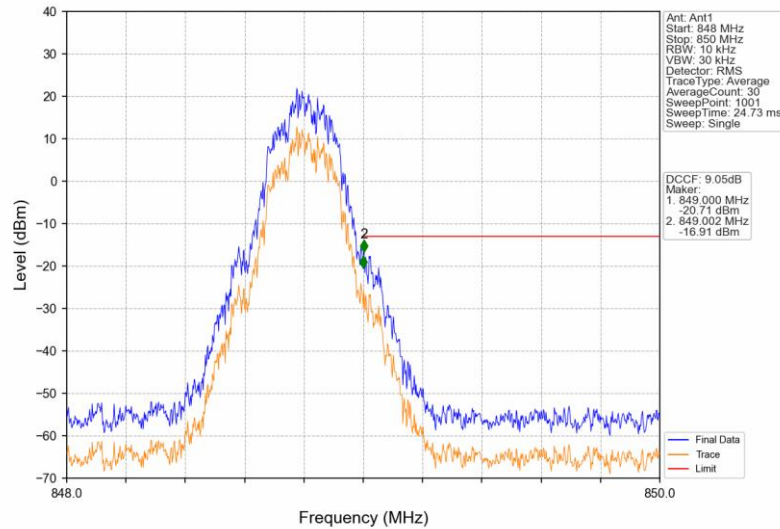
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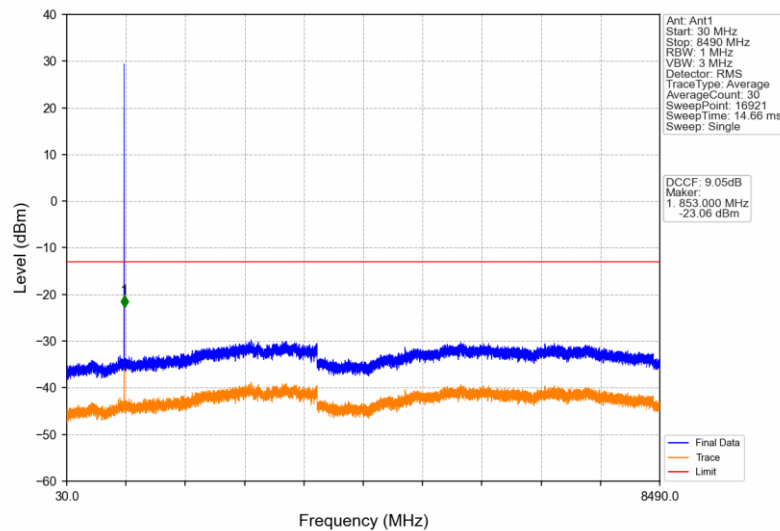
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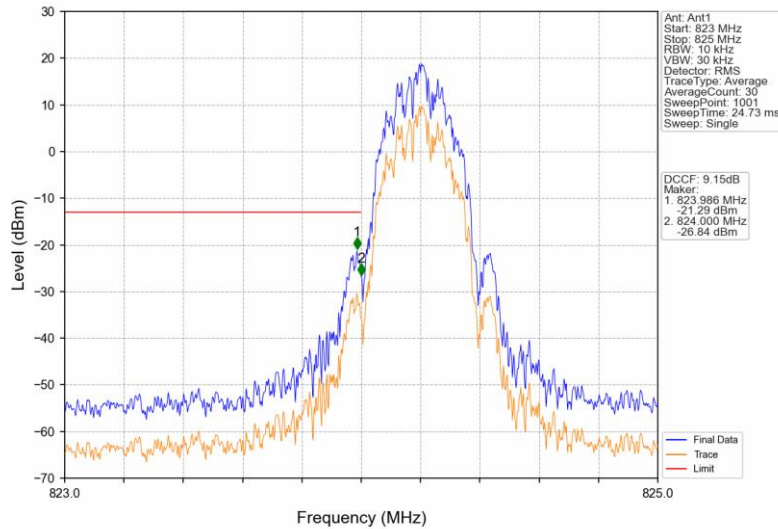
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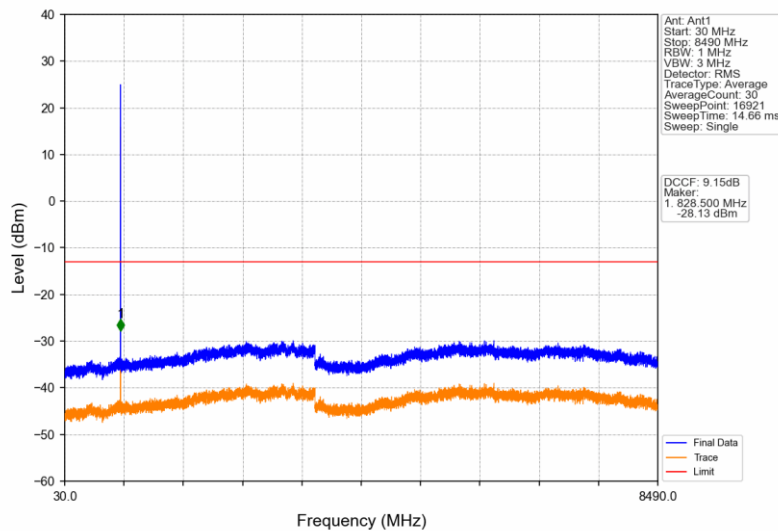
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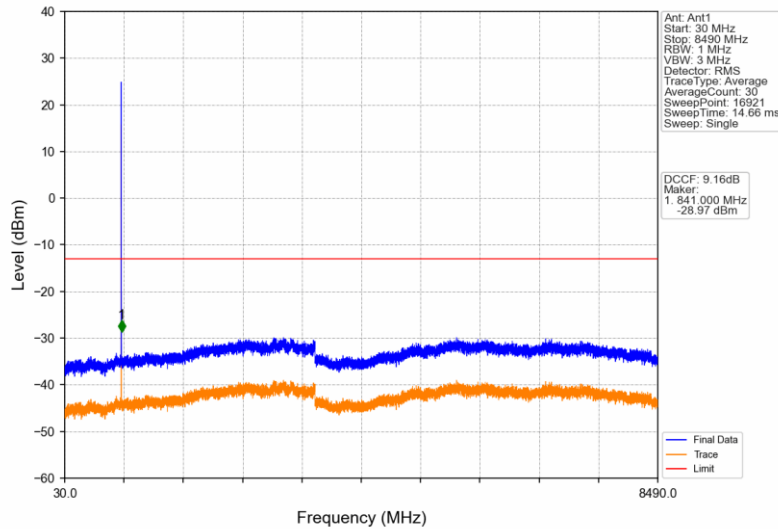
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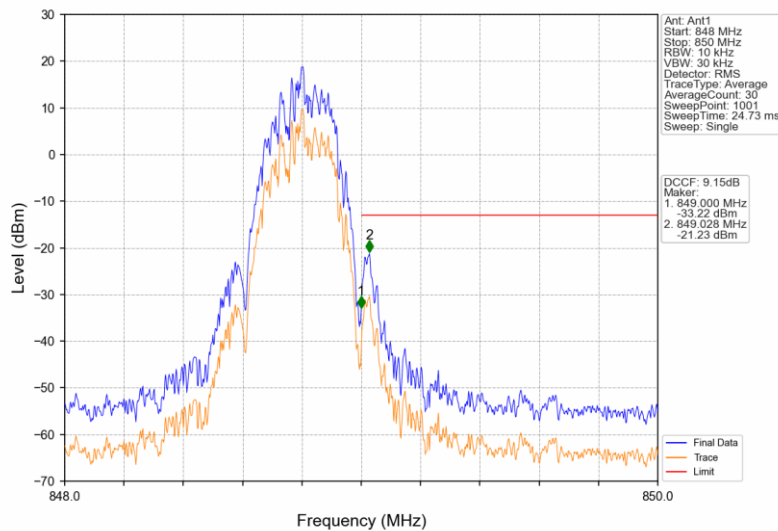
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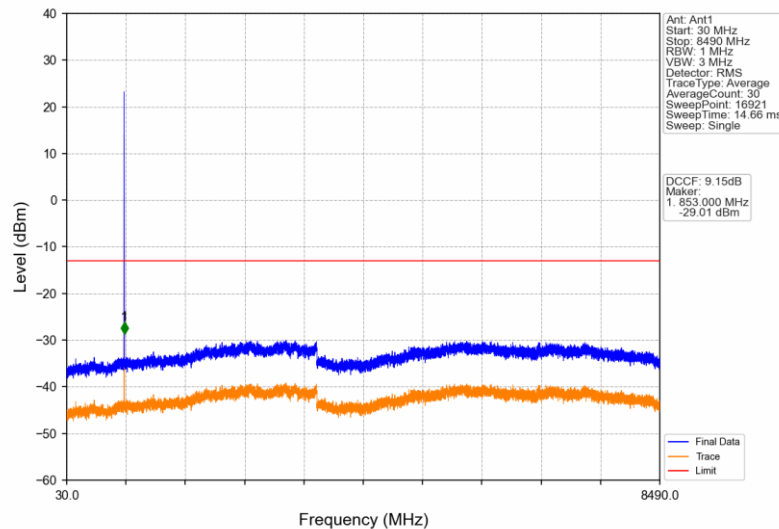
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6. Field Strength of Spurious Radiation

Test Band = GSM850 _ TM1

Test Channel = low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.4000	64.44	24.90	-48.85	-54.77	-13.00	41.77	Horizontal
2	2472.6000	59.75	27.33	-47.89	-56.07	-13.00	43.07	Horizontal
3	3296.8000	44.48	28.66	-47.16	-69.28	-13.00	56.28	Horizontal
4	4121.0000	44.39	29.67	-47.51	-68.71	-13.00	55.71	Horizontal
5	4945.2000	45.82	31.27	-46.98	-65.15	-13.00	52.15	Horizontal
6	5769.4000	47.59	32.49	-46.96	-62.14	-13.00	49.14	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.4000	71.02	24.90	-48.85	-48.19	-13.00	35.19	Vertical
2	2472.6000	57.43	27.33	-47.89	-58.39	-13.00	45.39	Vertical
3	3296.8000	44.62	28.66	-47.16	-69.14	-13.00	56.14	Vertical
4	4121.0000	44.06	29.67	-47.51	-69.04	-13.00	56.04	Vertical
5	4945.2000	50.43	31.27	-46.98	-60.54	-13.00	47.54	Vertical
6	5769.4000	43.98	32.49	-46.96	-65.75	-13.00	52.75	Vertical



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Test Band = GSM850 _ TM1
Test Channel = mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1673.2000	61.59	24.95	-48.81	-57.53	-13.00	44.53	Horizontal
2	2509.8000	56.77	27.42	-47.79	-58.86	-13.00	45.86	Horizontal
3	3346.4000	44.49	28.67	-47.25	-69.35	-13.00	56.35	Horizontal
4	4183.0000	44.41	29.76	-47.20	-68.29	-13.00	55.29	Horizontal
5	5019.6000	50.67	31.45	-46.97	-60.11	-13.00	47.11	Horizontal
6	5856.2000	43.98	32.46	-46.53	-65.35	-13.00	52.35	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1673.2000	66.11	24.95	-48.81	-53.01	-13.00	40.01	Vertical
2	2509.8000	58.35	27.42	-47.79	-57.28	-13.00	44.28	Vertical
3	3346.4000	45.47	28.67	-47.25	-68.37	-13.00	55.37	Vertical
4	4183.0000	44.64	29.76	-47.20	-68.06	-13.00	55.06	Vertical
5	5019.6000	54.44	31.45	-46.97	-56.34	-13.00	43.34	Vertical
6	5856.2000	44.33	32.46	-46.53	-65.00	-13.00	52.00	Vertical



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Test Band = GSM850 _ TM1
Test Channel = high

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.6000	59.46	25.00	-48.77	-59.57	-13.00	46.57	Horizontal
2	2546.4000	54.24	27.51	-47.90	-61.41	-13.00	48.41	Horizontal
3	3395.2000	44.89	28.68	-47.35	-69.04	-13.00	56.04	Horizontal
4	4244.0000	45.09	29.84	-47.10	-67.43	-13.00	54.43	Horizontal
5	5092.8000	56.20	31.62	-47.07	-54.51	-13.00	41.51	Horizontal
6	5941.6000	44.65	32.42	-46.51	-64.70	-13.00	51.70	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.6000	65.34	25.00	-48.77	-53.69	-13.00	40.69	Vertical
2	2546.4000	58.80	27.51	-47.90	-56.85	-13.00	43.85	Vertical
3	3395.2000	44.38	28.68	-47.35	-69.55	-13.00	56.55	Vertical
4	4244.0000	45.80	29.84	-47.10	-66.72	-13.00	53.72	Vertical
5	5092.8000	56.73	31.62	-47.07	-53.98	-13.00	40.98	Vertical
6	5941.6000	43.95	32.42	-46.51	-65.40	-13.00	52.40	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

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

---End of Attachment---



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