



Report No.: SZCR240100035201

Rev.: 01

Page: 1 of 35

Appendix B.1

GSM 850



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Report No.: SZCR240100035201

Rev.: 01

Page: 2 of 35

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



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Shenzhen Branch

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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com



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

Report No.: SZCR240100035201

Rev.: 01

Page: 3 of 35

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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Report No.: SZCR240100035201

Rev.: 01

Page: 4 of 35

		-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	
	50	3.84	-13.883	-0.0168	-2.5 to 2.5	Pass		
	836.6	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	
	50		3.84	-10.396	-0.0122	-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	
		50	3.84	-8.846	-0.0107	-2.5 to 2.5	Pass	
		836.6	20	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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Report No.: SZCR240100035201
Rev.: 01
Page: 5 of 35

848.8	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
	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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Report No.: SZCR240100035201
Rev.: 01
Page: 6 of 35

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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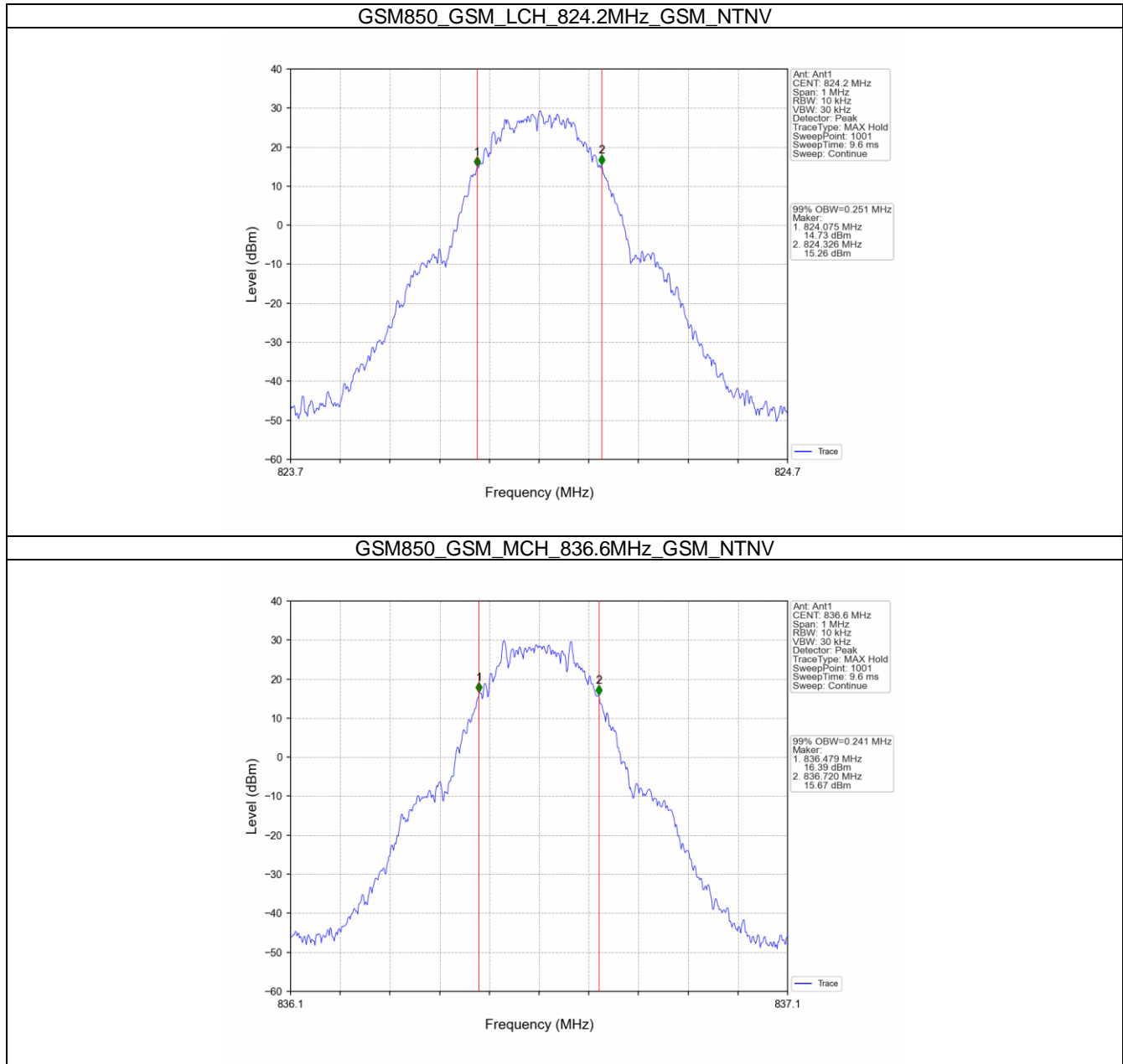
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Rev.: 01

Page: 7 of 35

3.1.2 Test Graph



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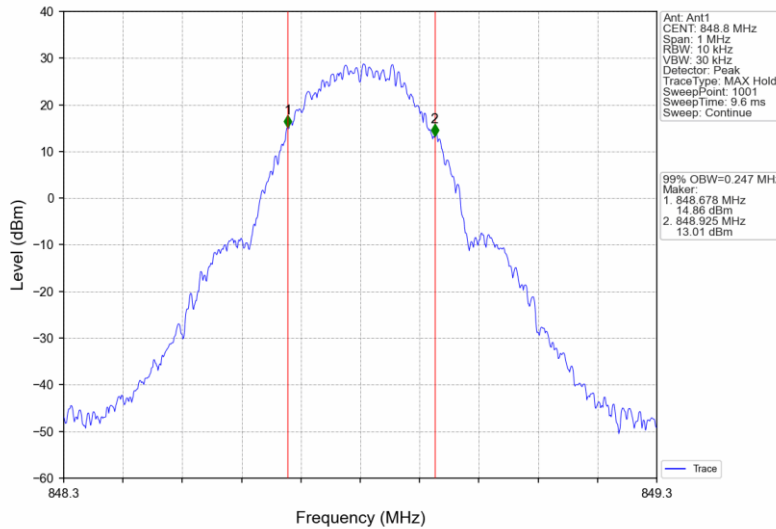
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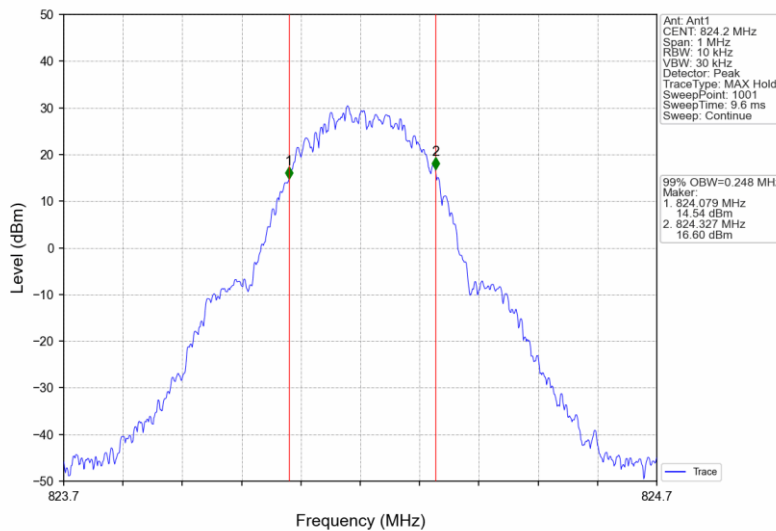
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Page: 8 of 35

GSM850_GSM_HCH_848.8MHz_GSM_NTNV



GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



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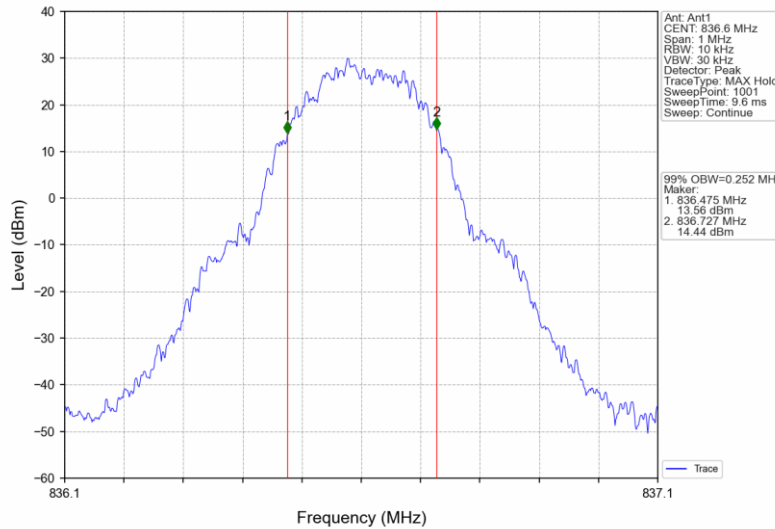
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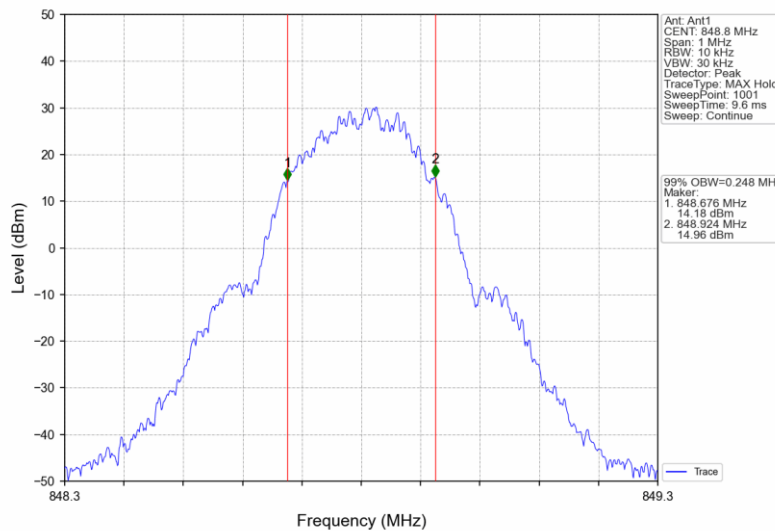
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Page: 9 of 35

GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



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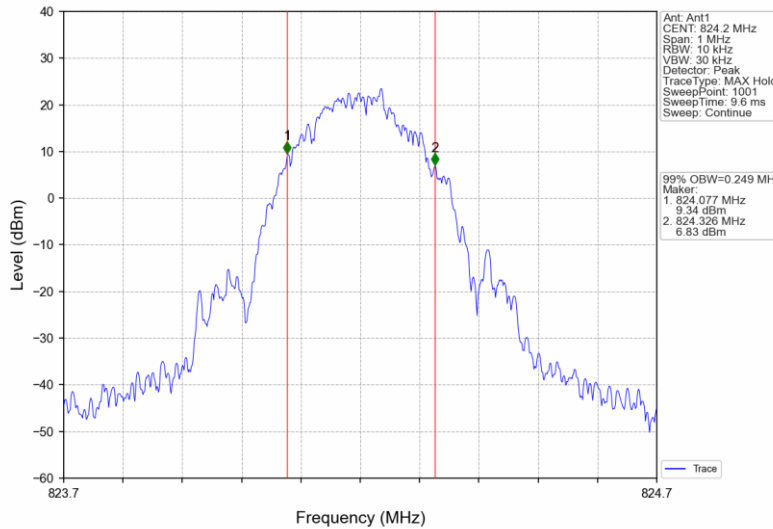
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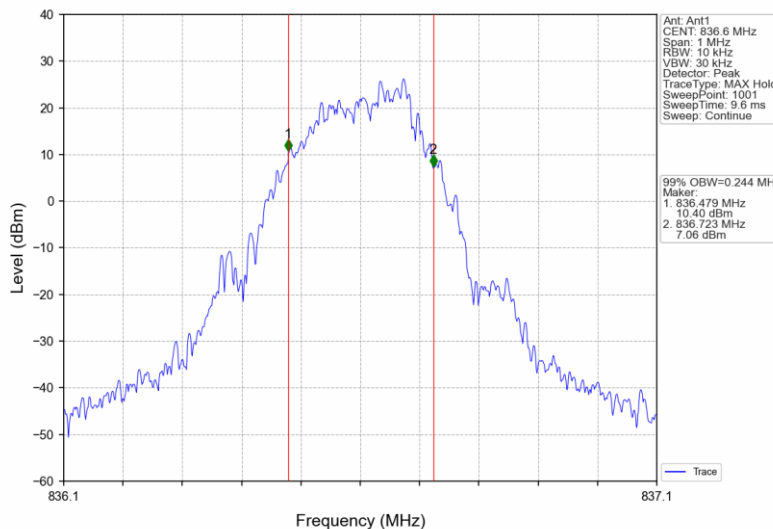
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Page: 10 of 35

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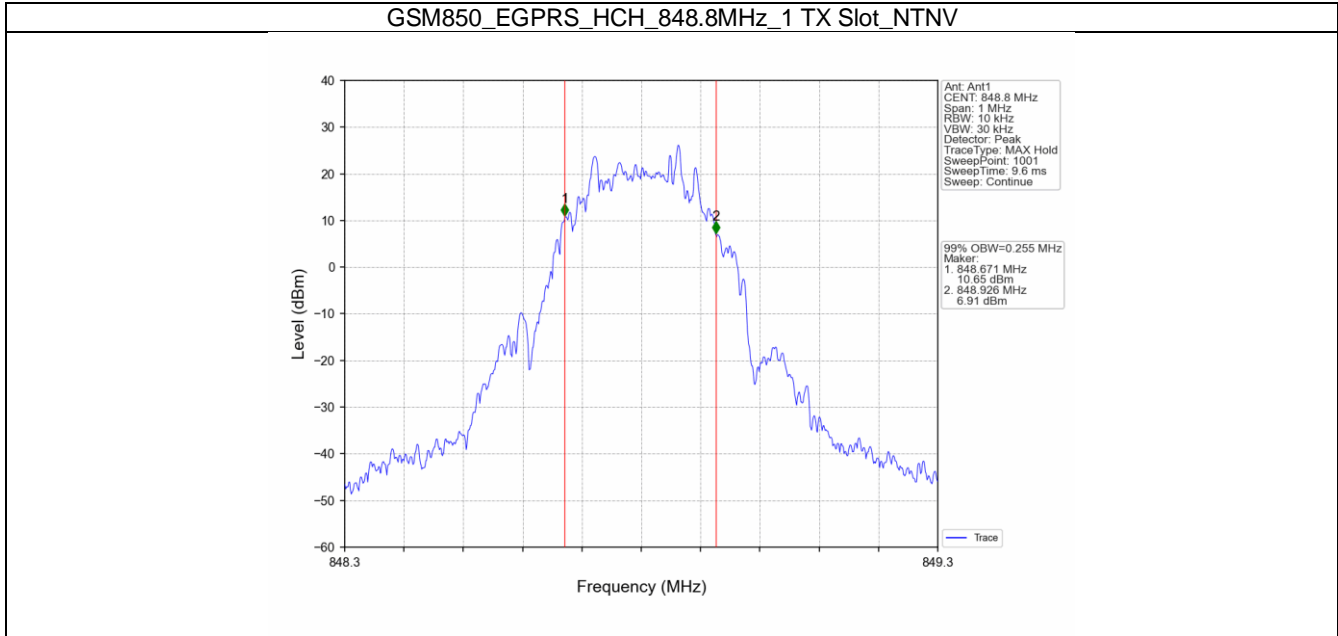


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Rev.: 01

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Report No.: SZCR240100035201

Rev.: 01

Page: 12 of 35

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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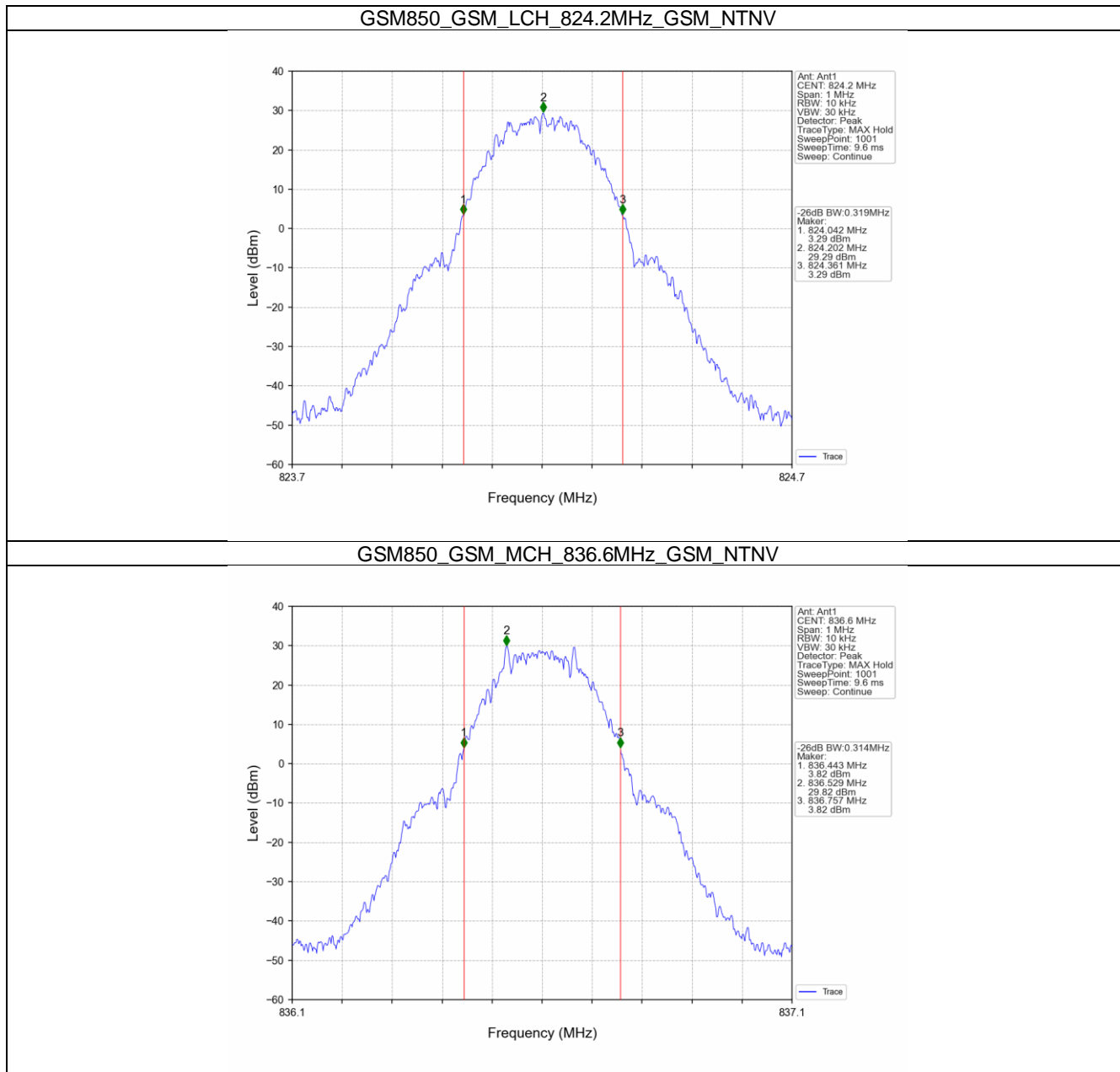
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3.2.2 Test Graph



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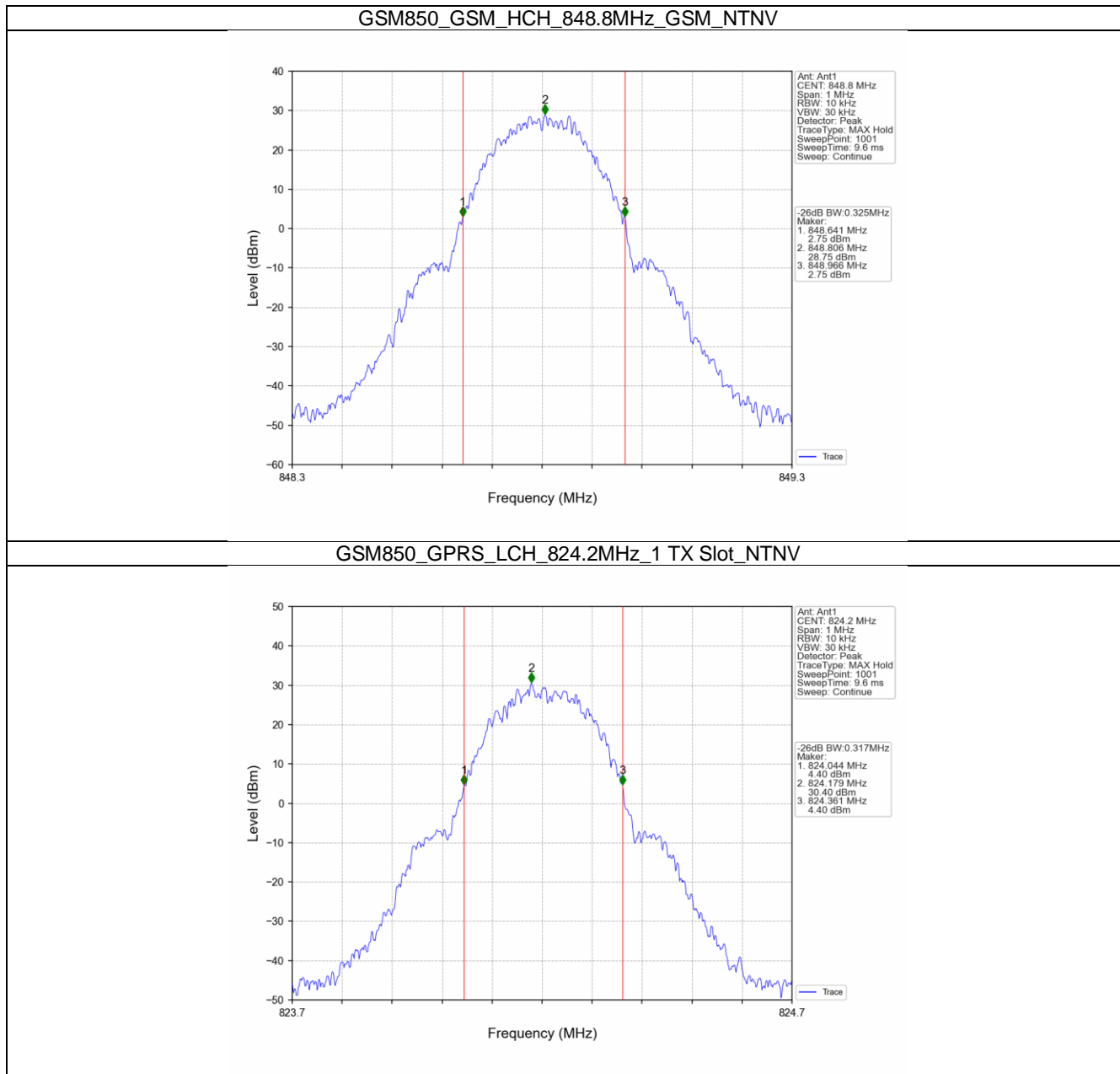
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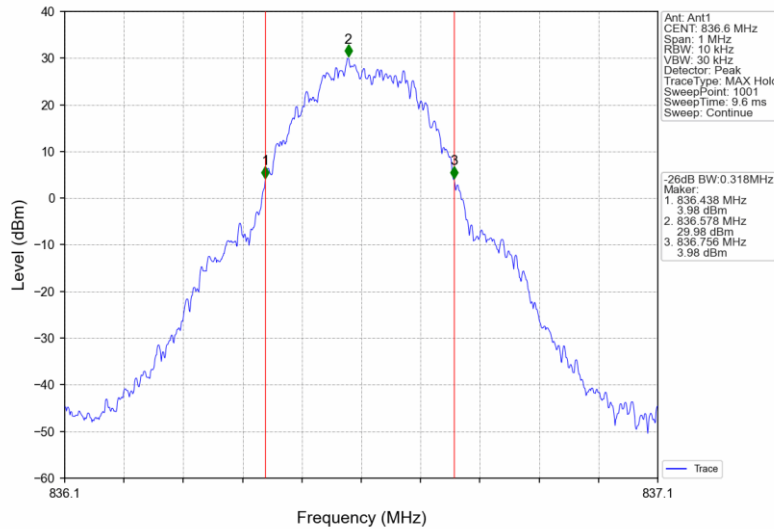
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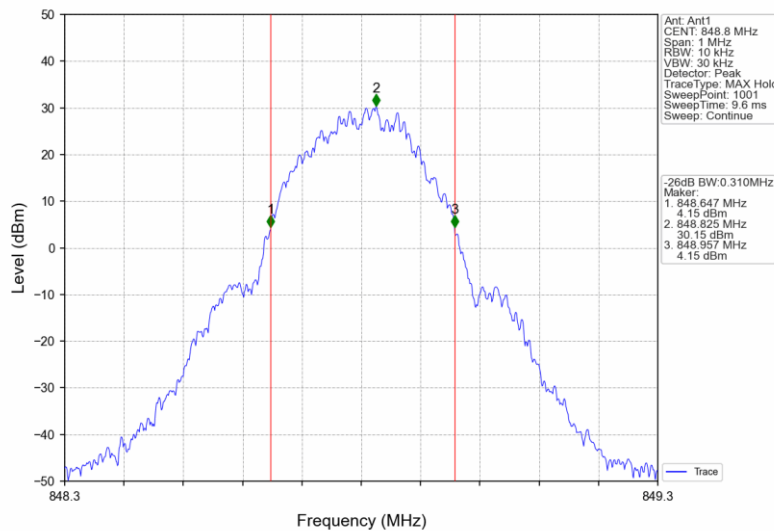
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GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



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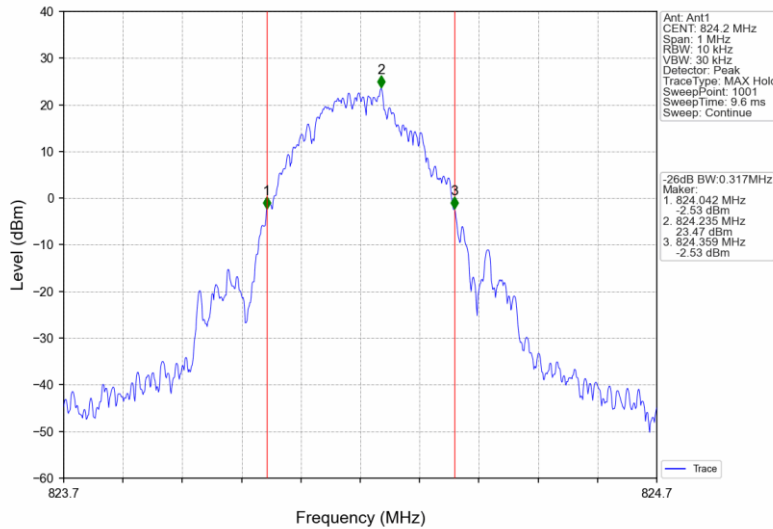
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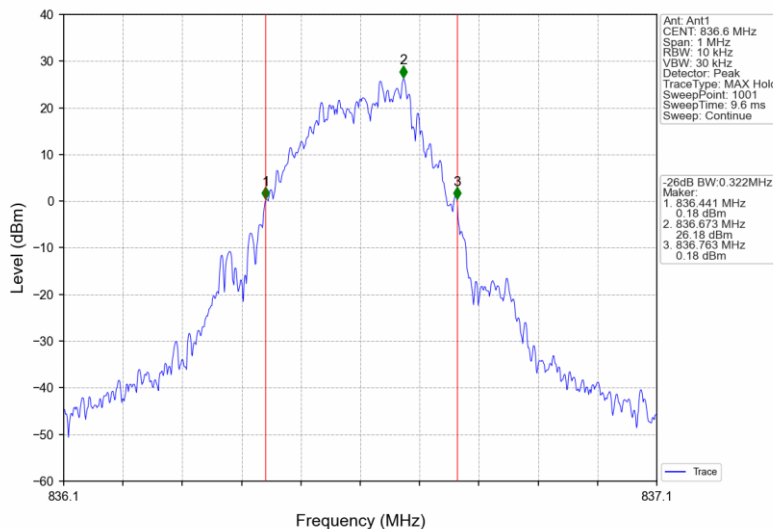
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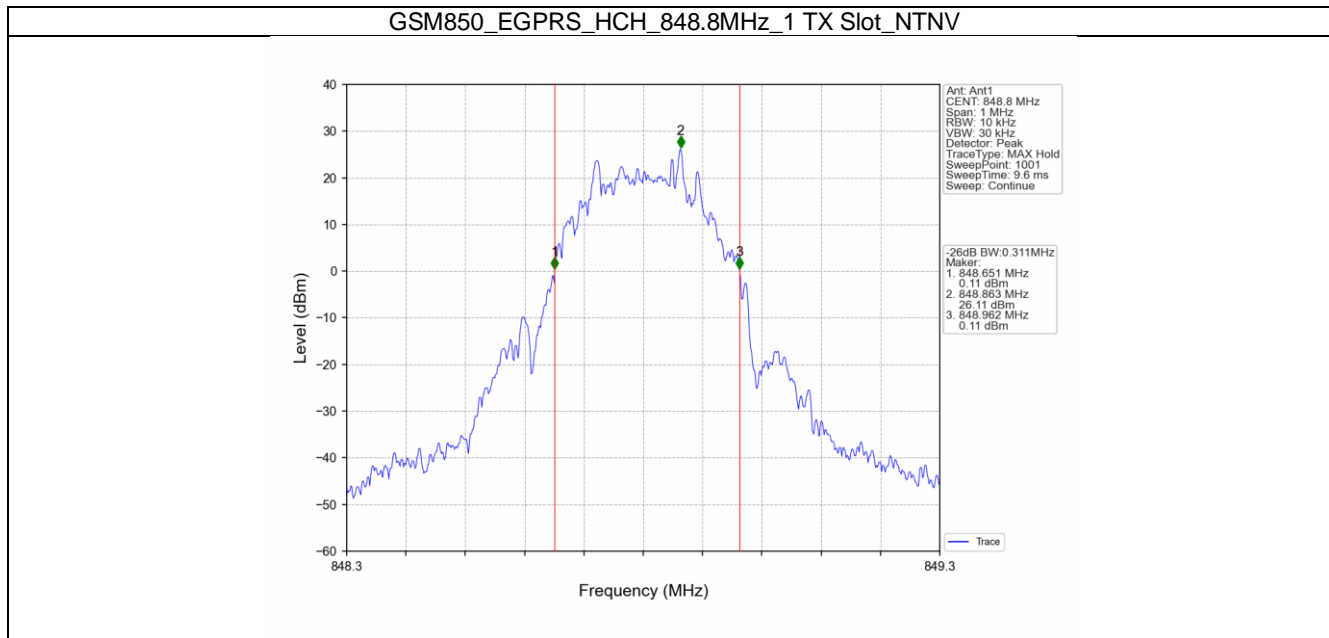
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Report No.: SZCR240100035201

Rev.: 01

Page: 18 of 35

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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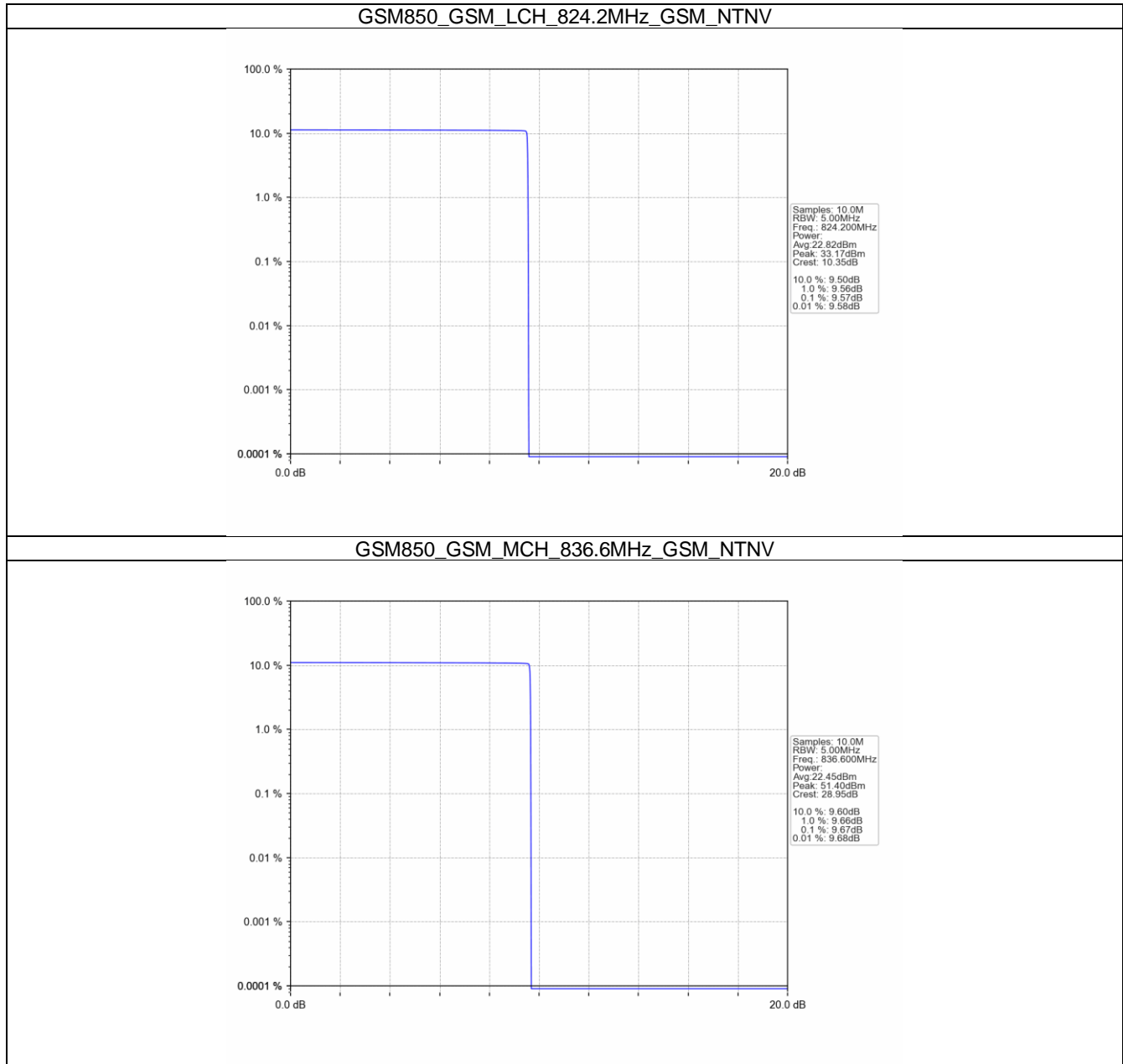
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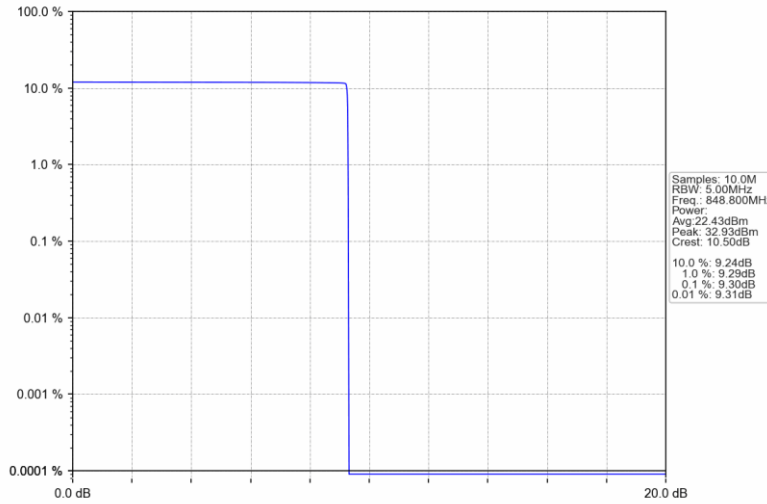
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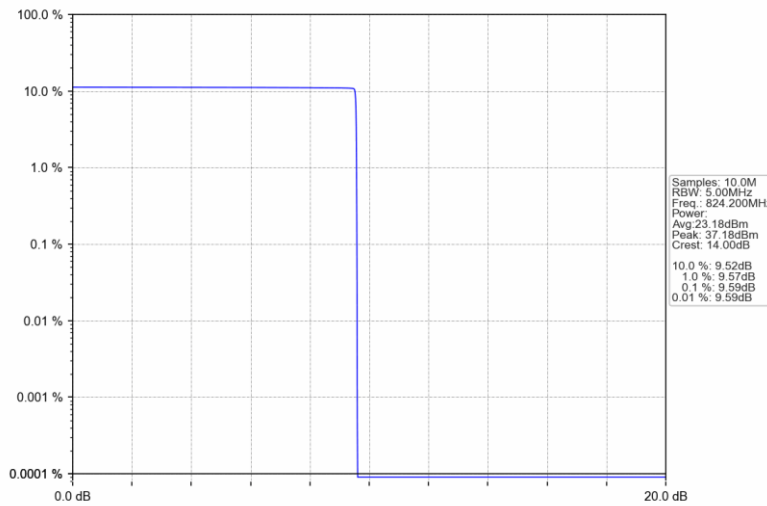
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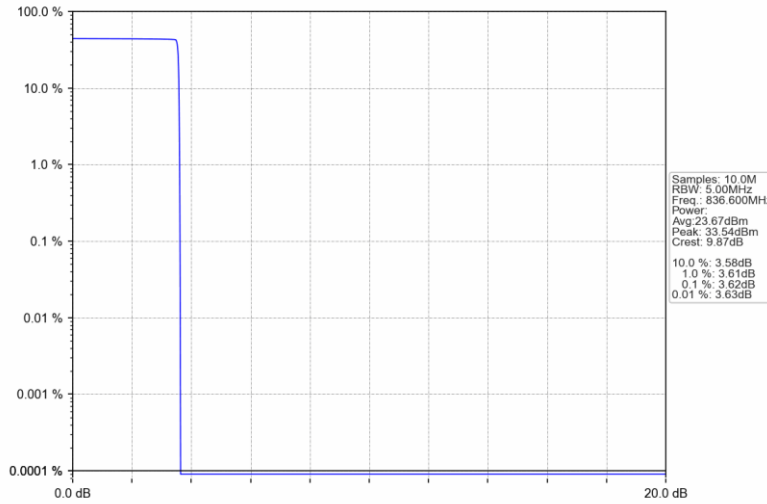
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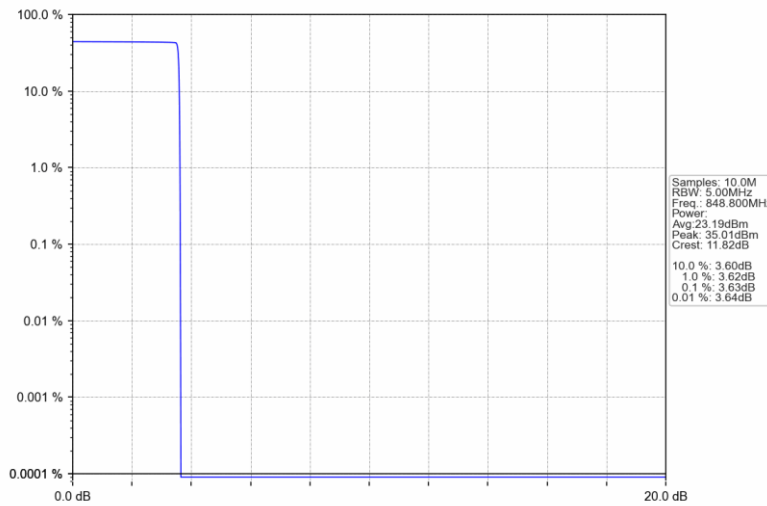
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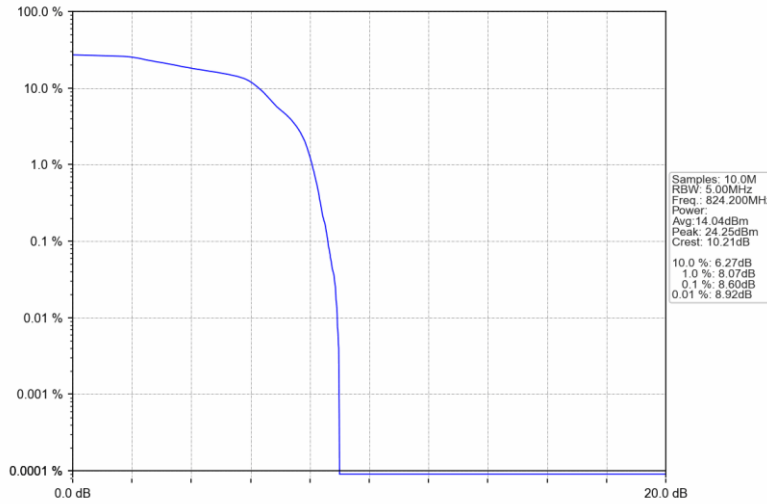
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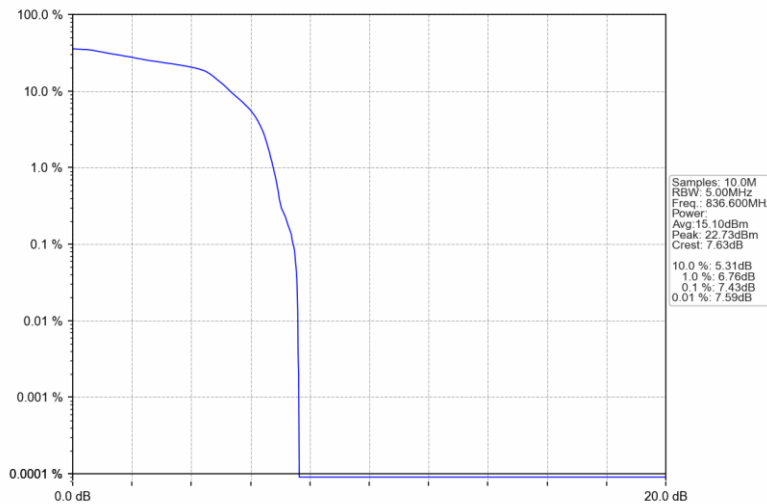
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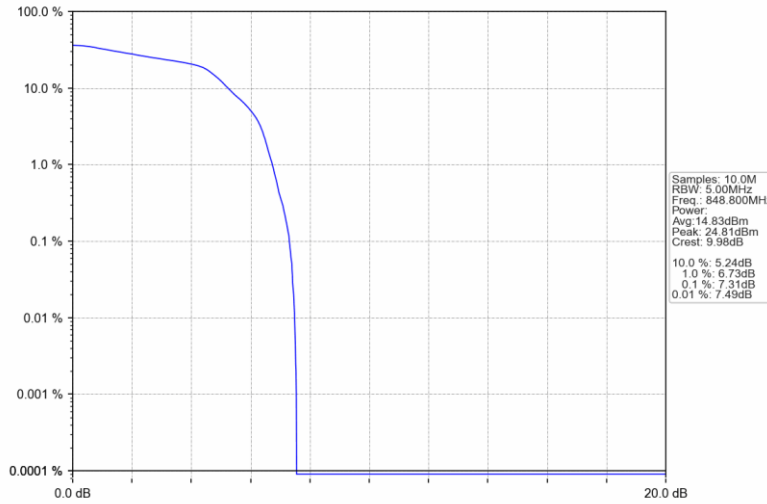
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Rev.: 01

Page: 23 of 35

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Report No.: SZCR240100035201

Rev.: 01

Page: 24 of 35

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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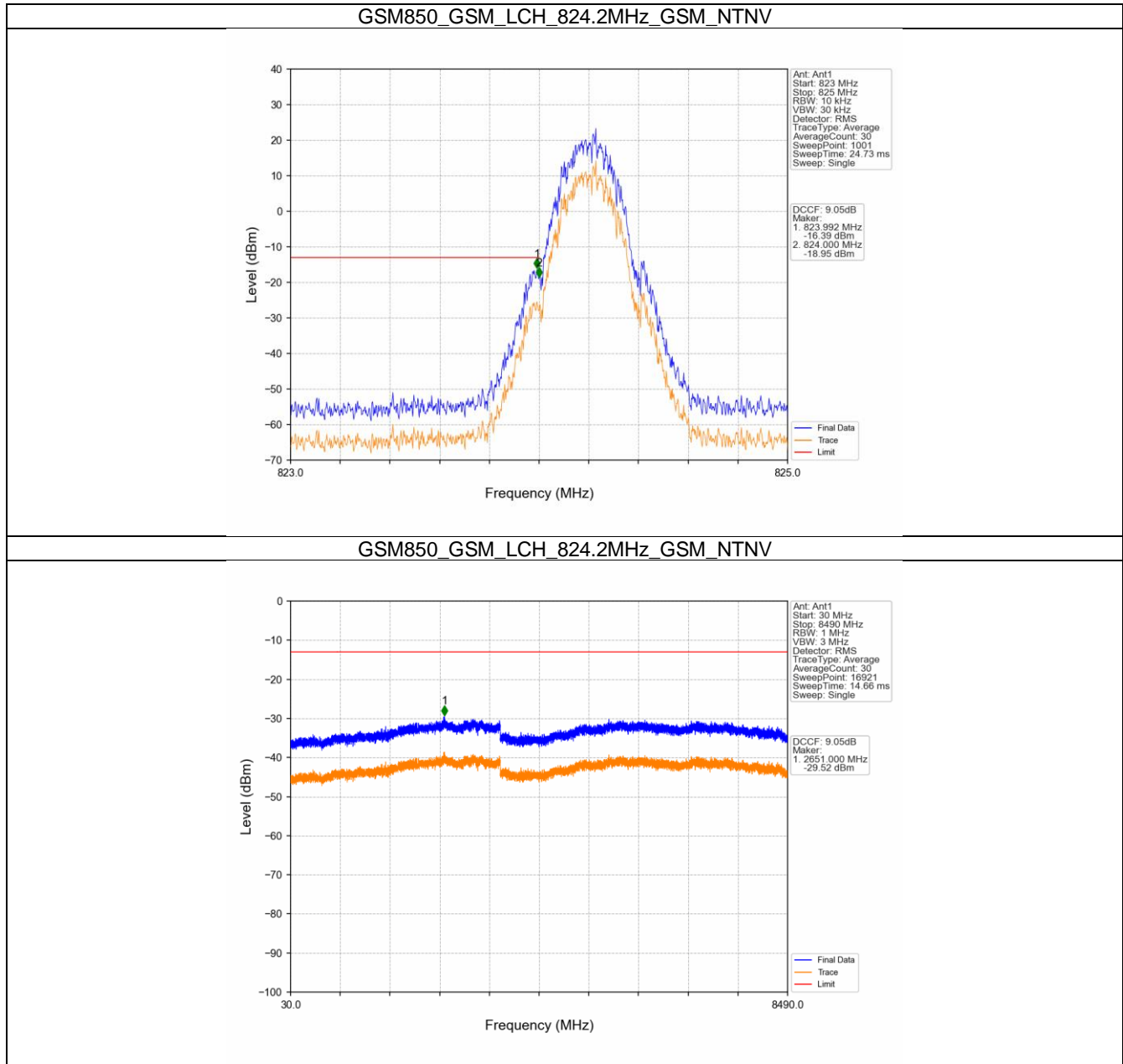
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Page: 25 of 35

5.1.2 Test Graph



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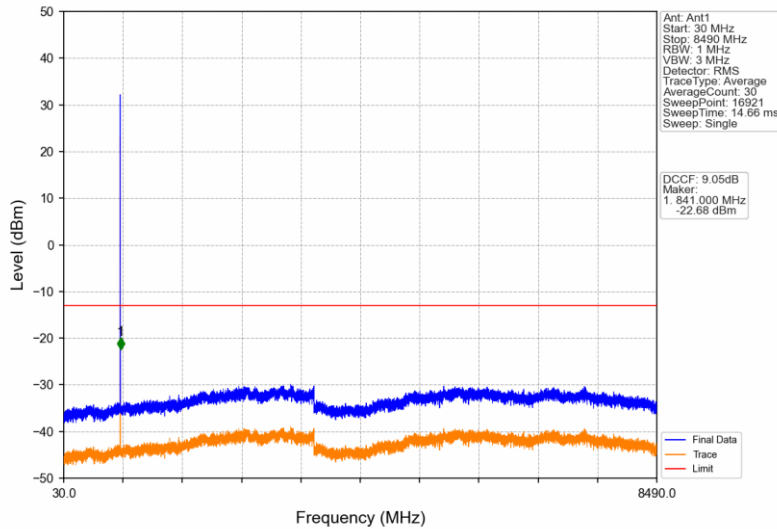
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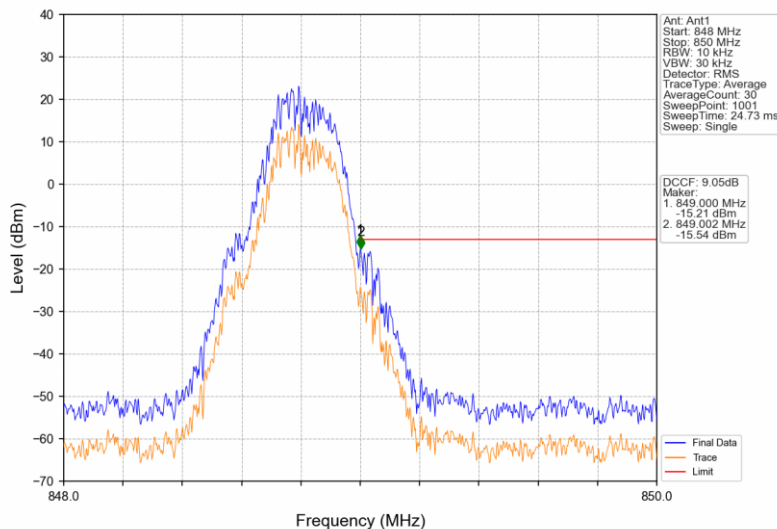
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GSM850_GSM_HCH_848.8MHz_GSM_NTNV



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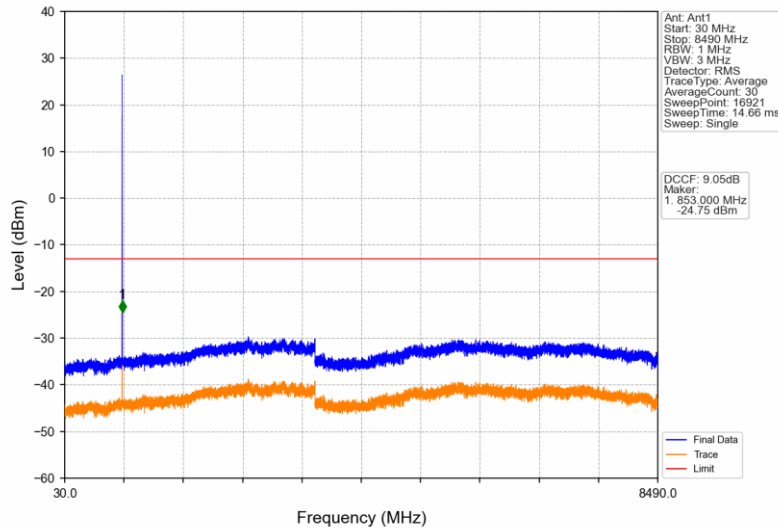
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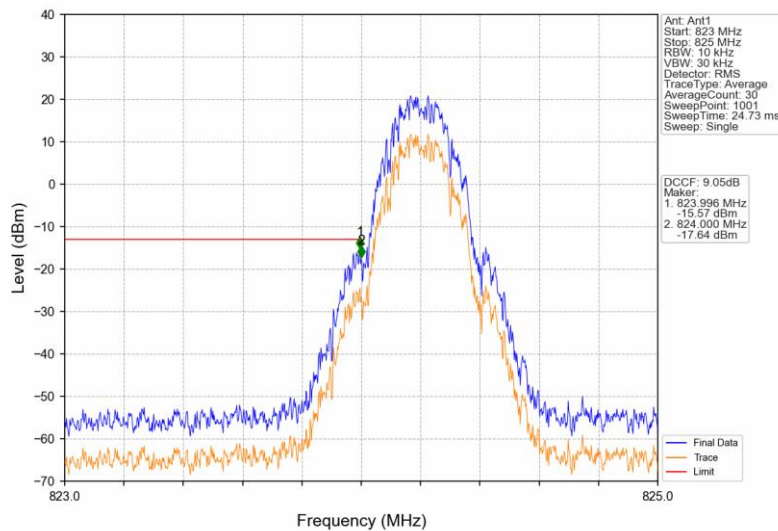
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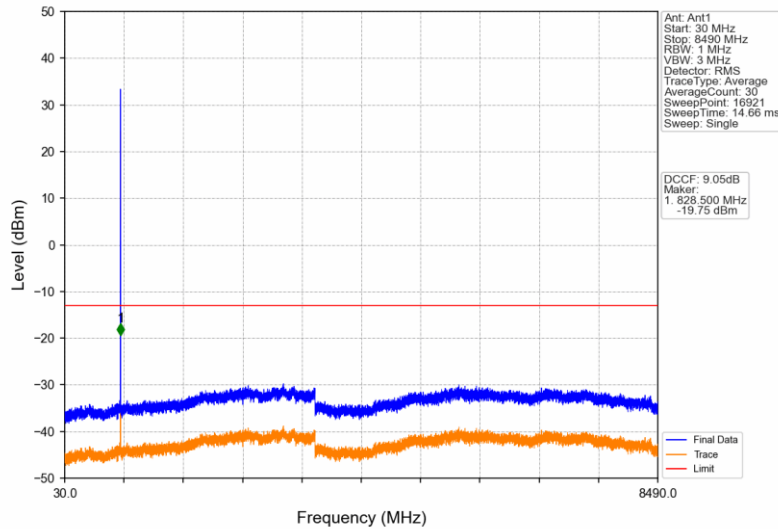
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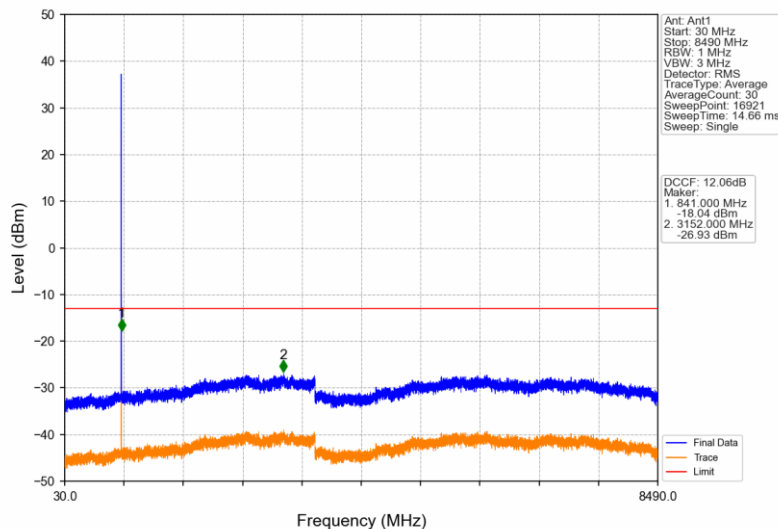
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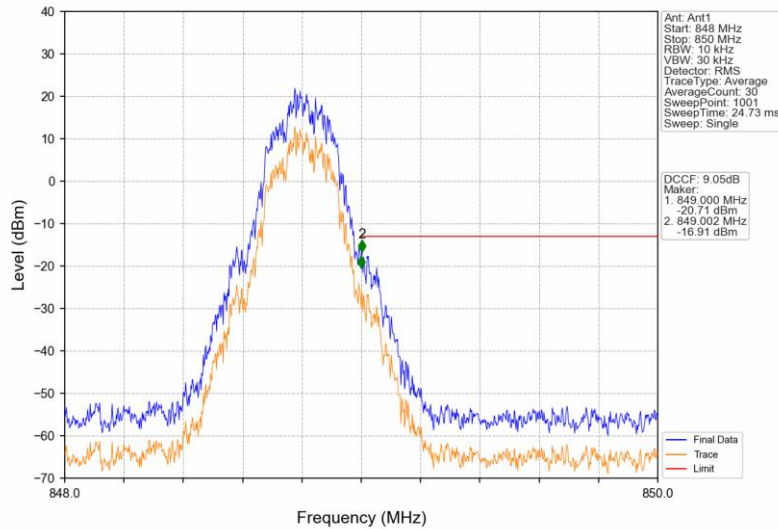
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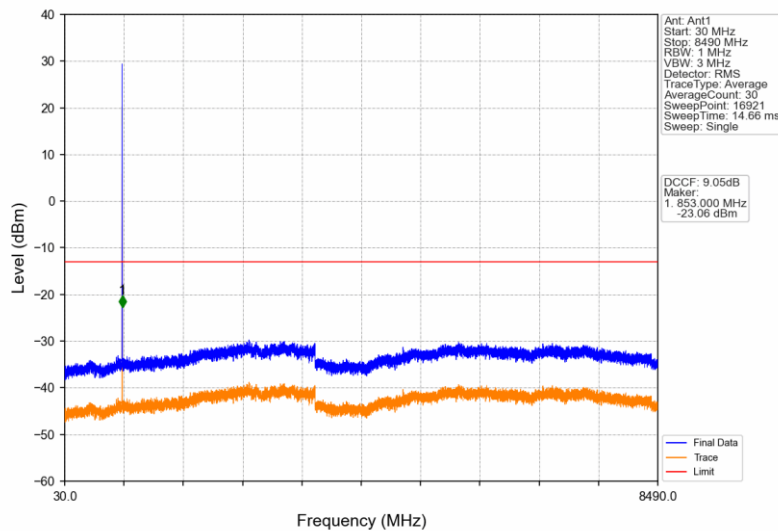
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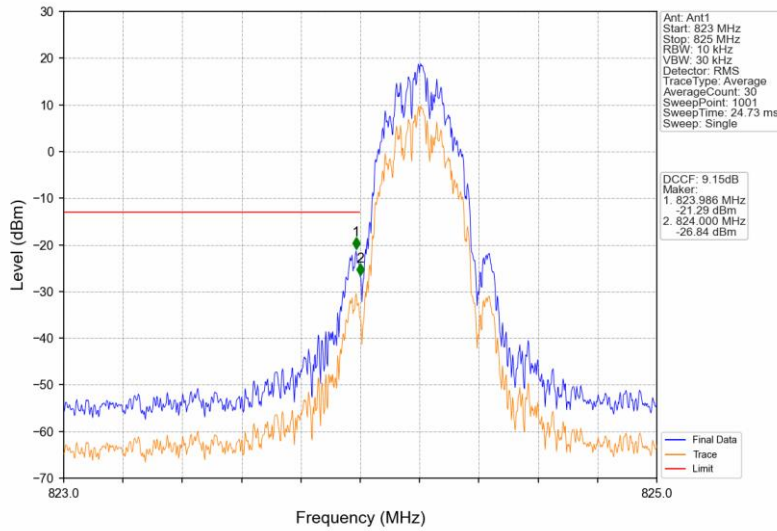
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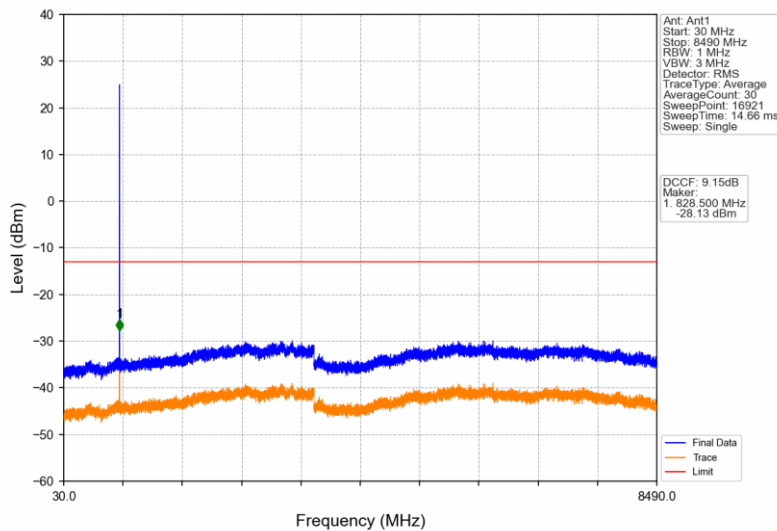
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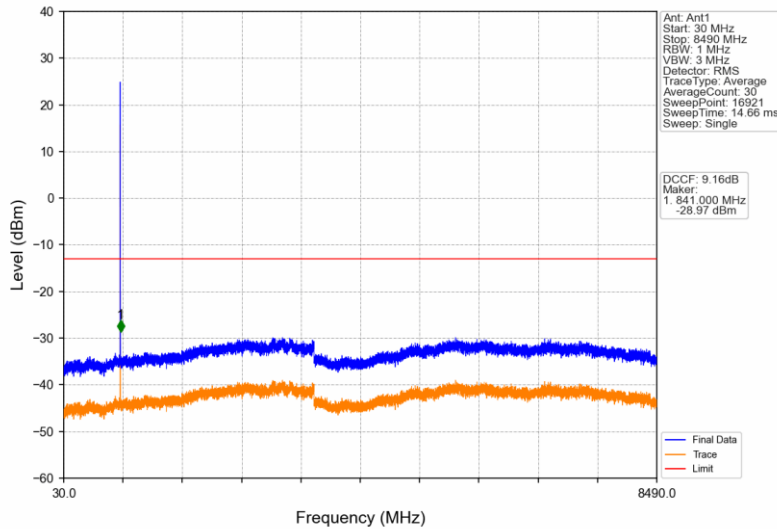
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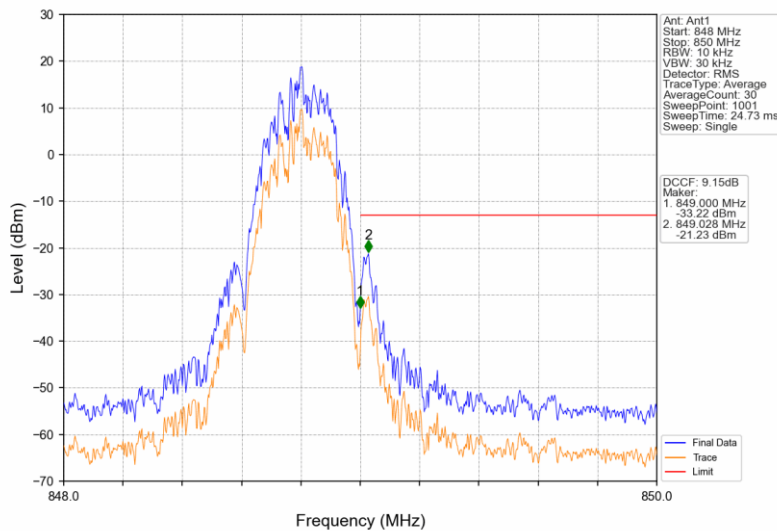
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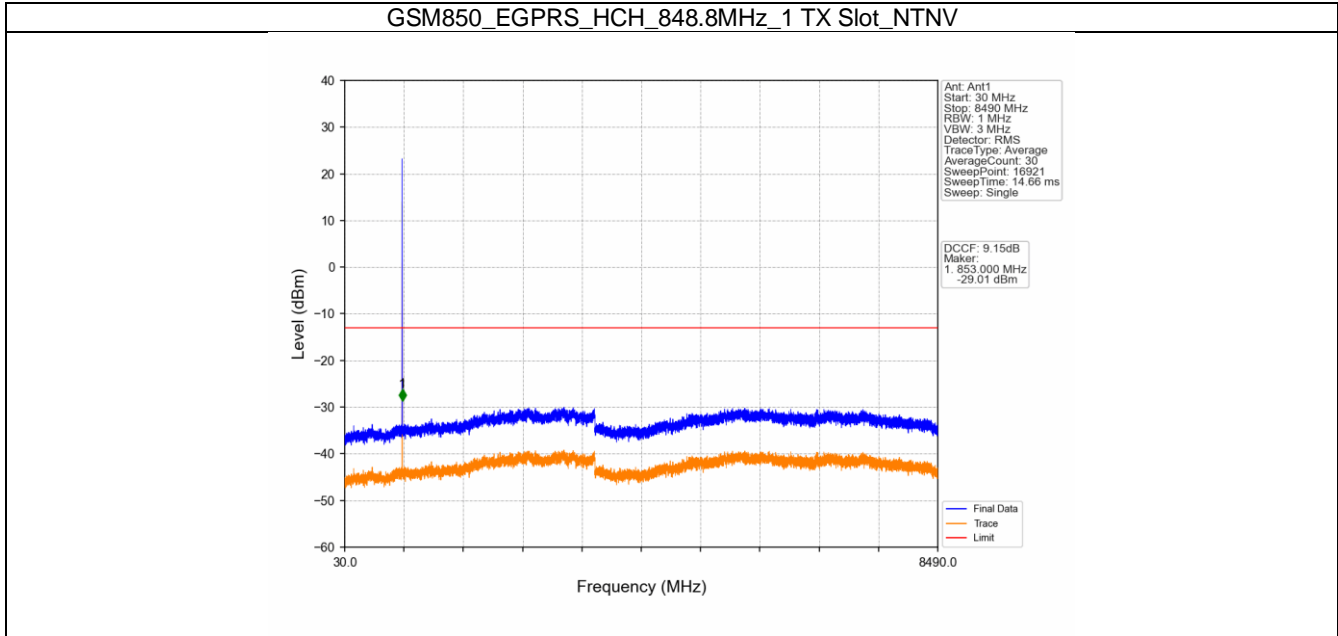


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Rev.: 01

Page: 33 of 35

6. Field Strength of Spurious Radiation

Test Band = GSM850 _ TM1

Test Channel = low

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	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 [dB μ V]	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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SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch, Inspection & Testing Services
Shenzhen Wireless Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com



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Report No.: SZCR240100035201
Rev.: 01
Page: 34 of 35

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com



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Report No.: SZCR240100035201

Rev.: 01

Page: 35 of 35

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) - 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.

---End of Attachment---



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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com