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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	N	/lode	Frequency	Conducted Power	Gain	ERP	(dBm)	Verdict
EINV	Network	Subset	(MHz)	(dBm)	(dBi)	Result	Limit	verdict
			824.2	32.86	-1.6	29.11	<=38.45	Pass
	GSM	GSM	836.6	32.79	-1.6	29.04	<=38.45	Pass
			848.8	32.76	-1.6	29.01	<=38.45	Pass
		1 TX Slot	824.2	26.56	-1.6	22.81	<=38.45	Pass
		2 TX Slots	824.2	24.79	-1.6	21.04	<=38.45	Pass
		3 TX Slots	824.2	24.06	-1.6	20.31	<=38.45	Pass
		4 TX Slots	824.2	23.11	-1.6	19.36	<=38.45	Pass
NTNV		1 TX Slot	836.6	26.42	-1.6	22.67	<=38.45	Pass
	EGPRS	2 TX Slots	836.6	24.85	-1.6	21.10	<=38.45	Pass
	LGFN3	3 TX Slots	836.6	24.03	-1.6	20.28	<=38.45	Pass
		4 TX Slots	836.6	23.06	-1.6	19.31	<=38.45	Pass
		1 TX Slot	848.8	26.59	-1.6	22.84	<=38.45	Pass
		2 TX Slots	848.8	24.69	-1.6	20.94	<=38.45	Pass
		3 TX Slots	848.8	24.03	-1.6	20.28	<=38.45	Pass
		4 TX Slots	848.8	23.20	-1.6	19.45	<=38.45	Pass
Note1: El	RP=Conduct	ed Power+Anter	nna Gain-2.15					



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Peak-Average Ratio GSM850

Test Result

			Band: GSM	850		
ENV	N	Лode	Frequency	Peak-Averag	ge Ratio (dB)	Verdict
EINV	Network Subset		(MHz)	Result	Limit	verdict
	GSM		824.2	9.81	<=13	Pass
		GSM	836.6	9.53	<=13	Pass
NTNV			848.8	10.21	<=13	Pass
INTINV			824.2	6.52	<=13	Pass
	EGPRS	4 TX Slots	836.6	8.88	<=13	Pass
			848.8	8.91	<=13	Pass



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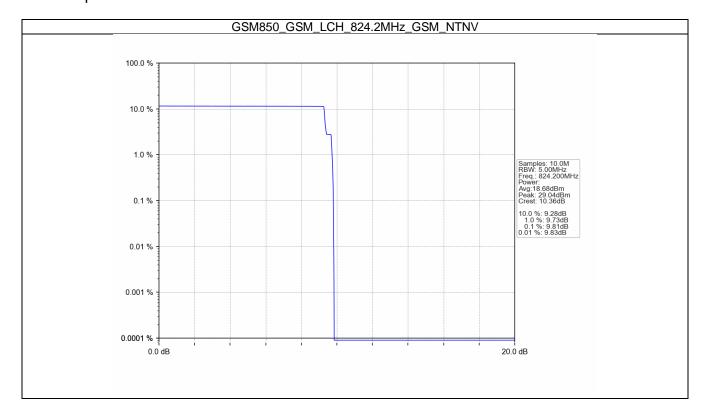
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Test Graph





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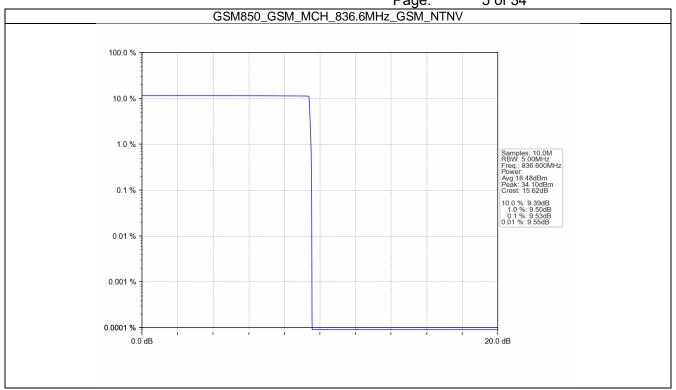
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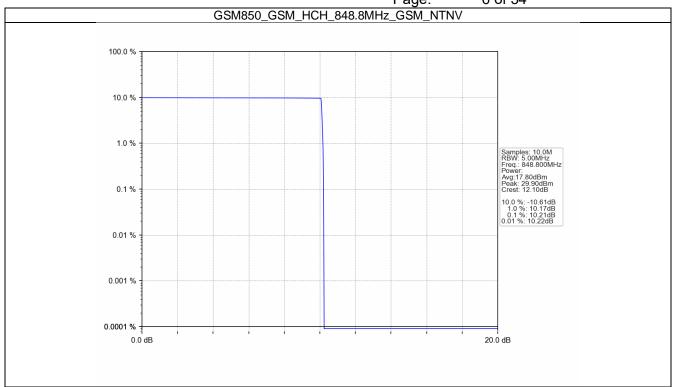
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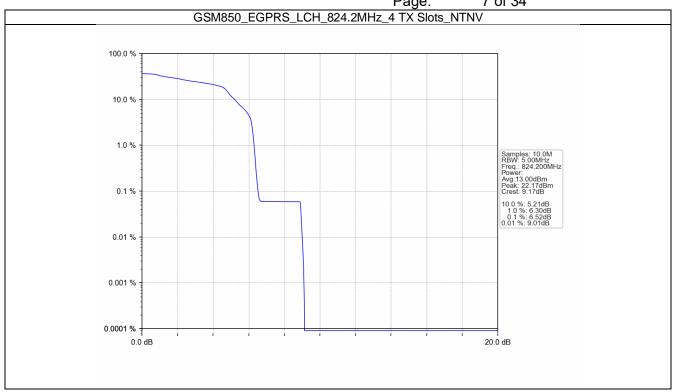
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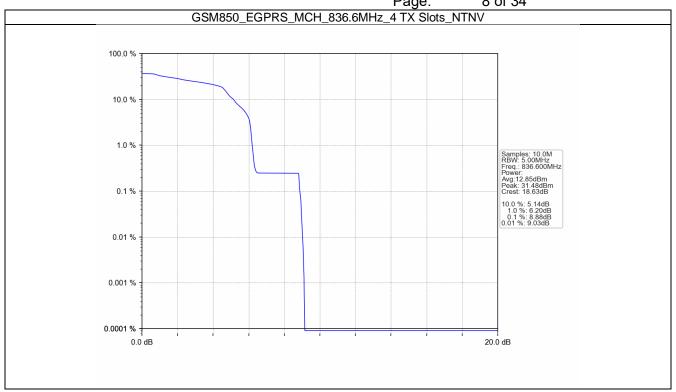
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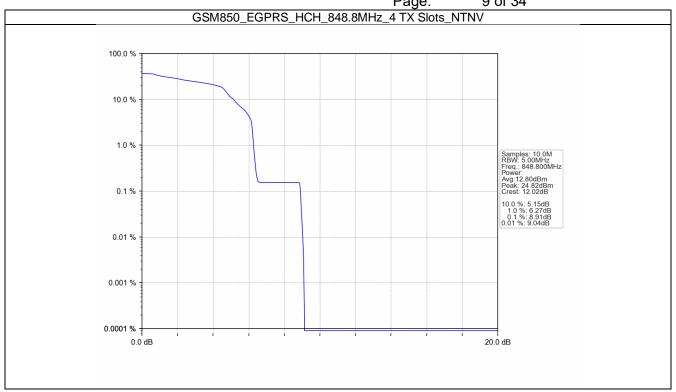
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99% & 26dB Bandwidth

GSM850_OBW

Test Result

			Band: GS	M850			
ENV	Mode		Frequency	99% Occupied E	Bandwidth (MHz)	Vardiat	
EINV	Network Subset		(MHz)	Result	Limit	Verdict	
			824.2	0.241	/	Pass	
	GSM	GSM	836.6	0.245	/	Pass	
NTNV			848.8	0.245	/	Pass	
INTINV			824.2	0.244	/	Pass	
	EGPRS	1 TX Slot	836.6	0.242	/	Pass	
			848.8	0.243	/	Pass	



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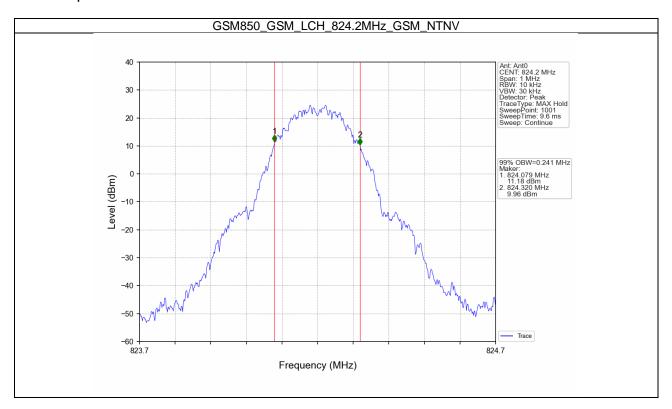
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Test Graph





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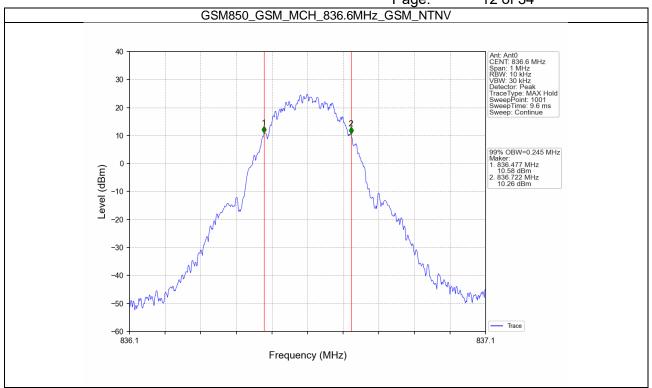
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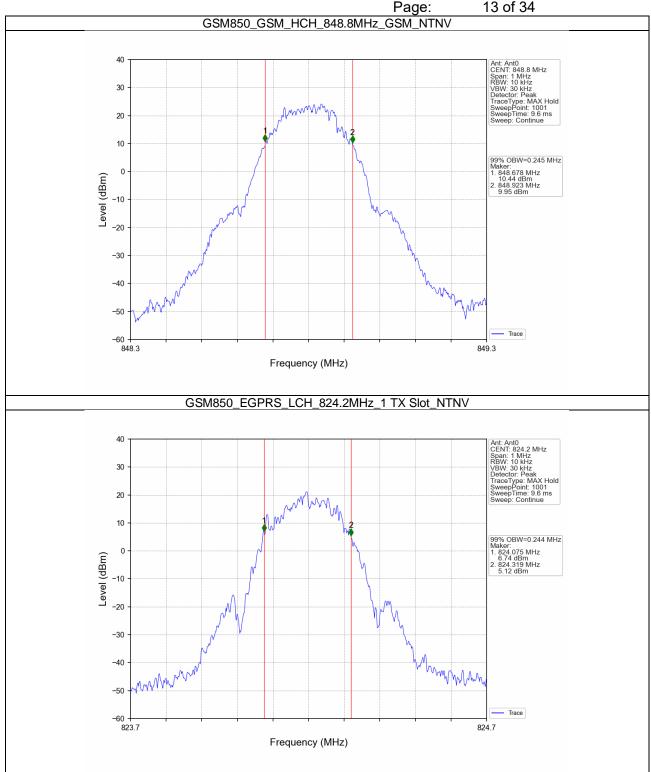
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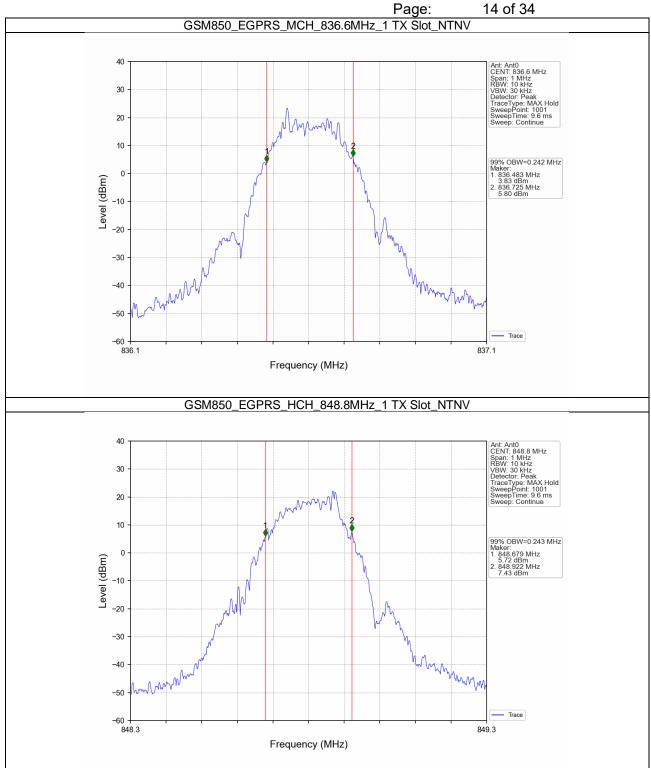
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GSM850_XDB

Test Result

			Band: GSM8	50		
ENV	IV	lode	Frequency	26dB Band	width (MHz)	Verdict
EINV	Network	Subset	(MHz)	Result	Limit	verdict
			824.2	0.318	/	Pass
	GSM	GSM	836.6	0.320	/	Pass
NTNV			848.8	0.318	/	Pass
INTINV			824.2	0.306	/	Pass
	EGPRS	1 TX Slot	836.6	0.300	/	Pass
			848.8	0.314	/	Pass



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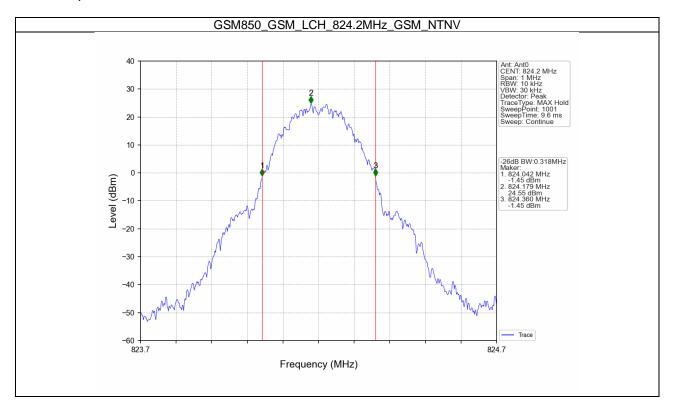


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Test Graph





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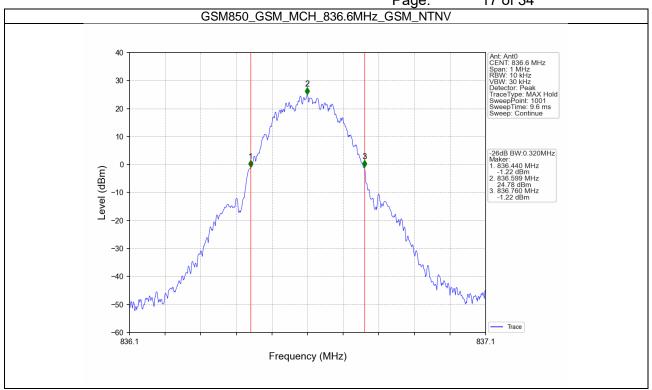
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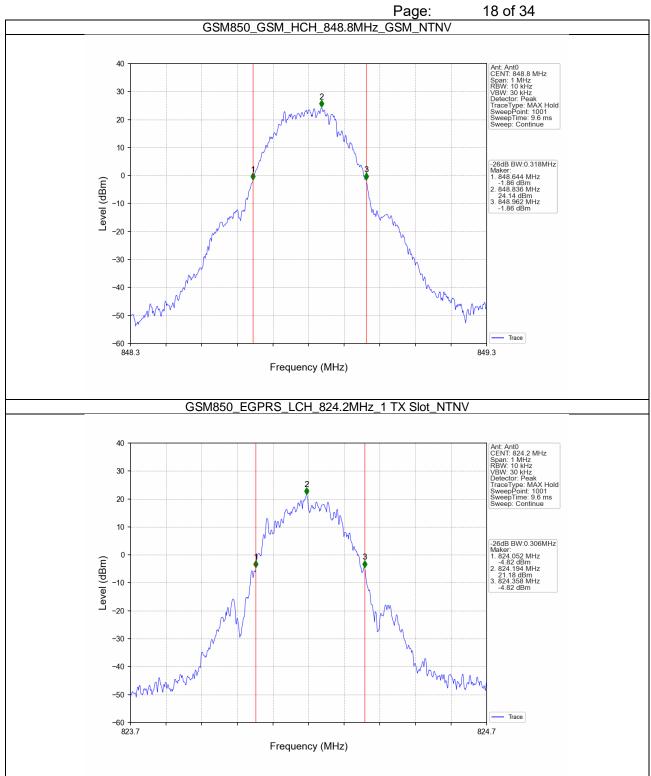
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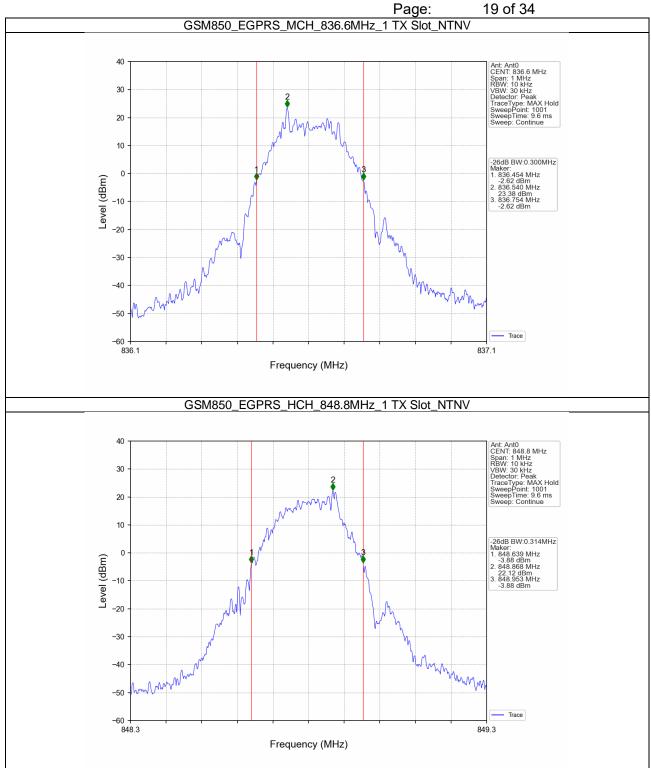
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Spurious Emission & Band Edge

GSM850

Test Result

			Band: GSM85	50			
ENV	M	ode	Frequency	Spurious Em	ission	\/ordiot	
EINV	Network Subset		(MHz)	Result	Limit	Verdict	
			824.2	Refer To Test	Graph	Pass	
	GSM	GSM	836.6	Refer To Test	Graph	Pass	
NTNV			848.8	Refer To Test	Graph	Pass	
INTINV			824.2	Refer To Test	Graph	Pass	
	EGPRS	EGPRS 1 TX Slot	836.6	Refer To Test	Graph	Pass	
			848.8	Refer To Test	Graph	Pass	



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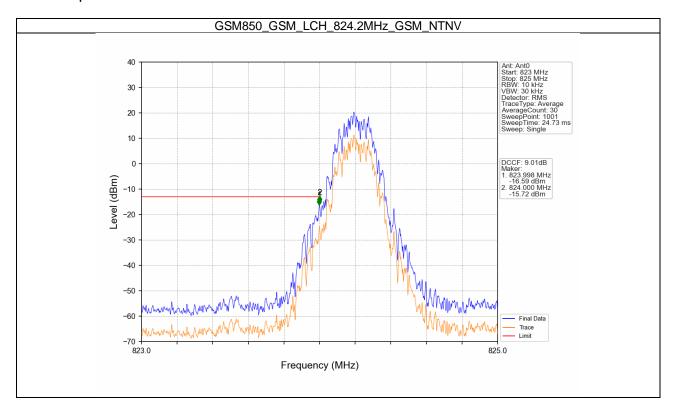
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Test Graph





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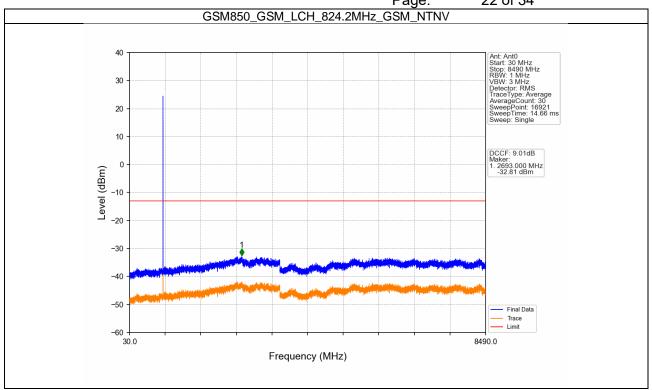
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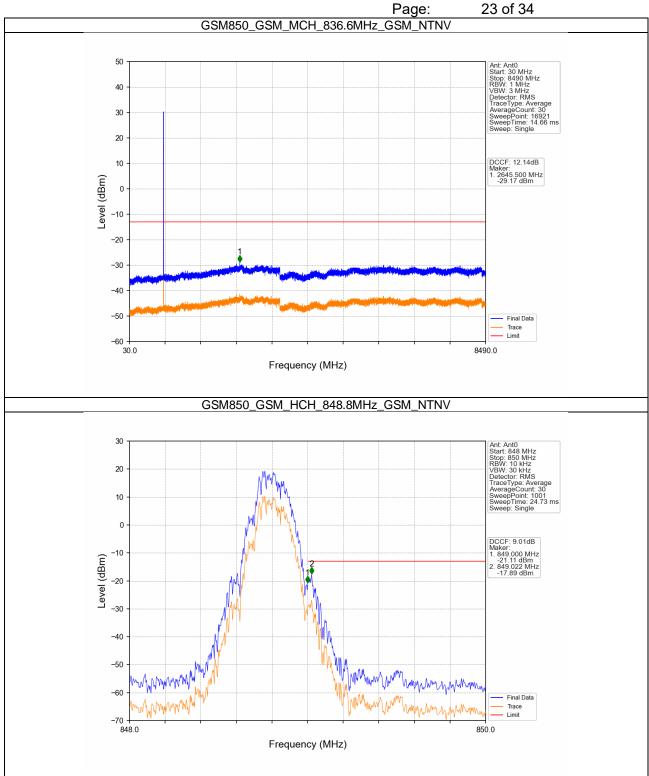
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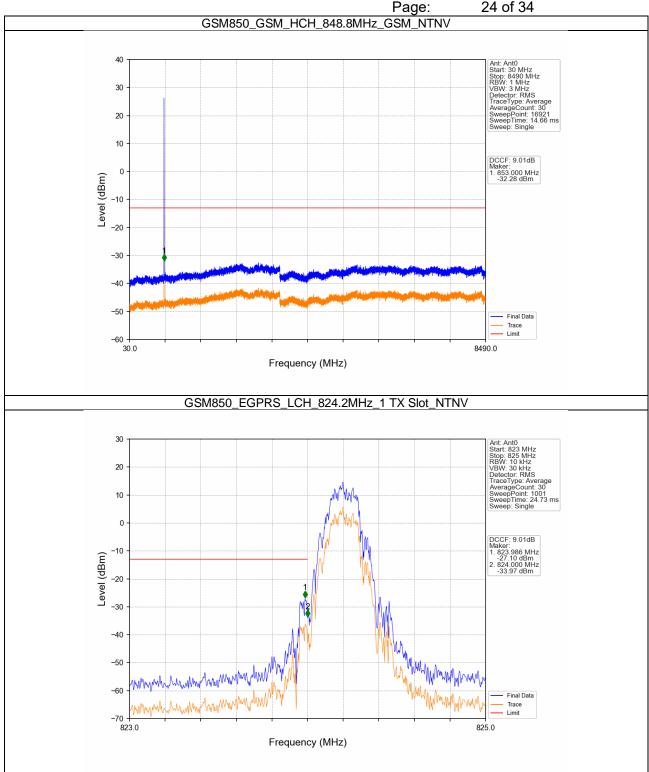
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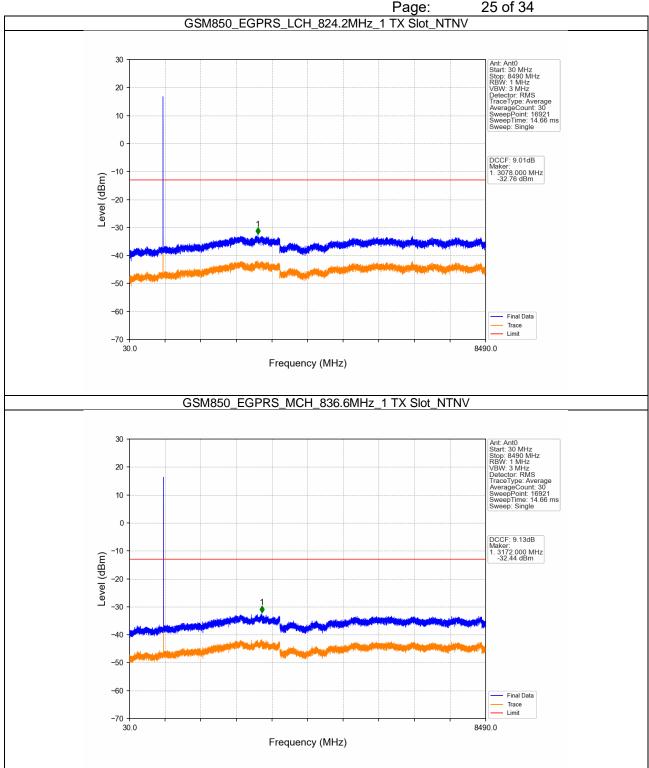
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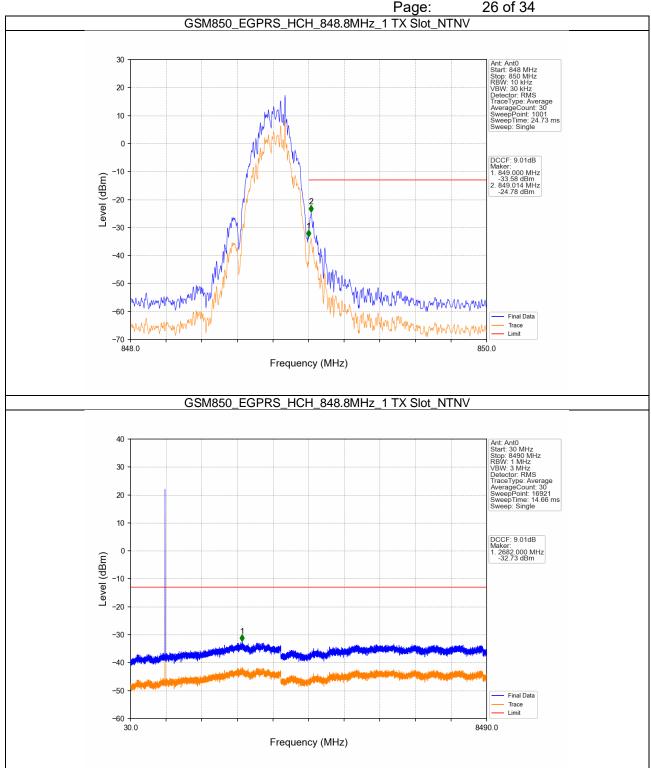
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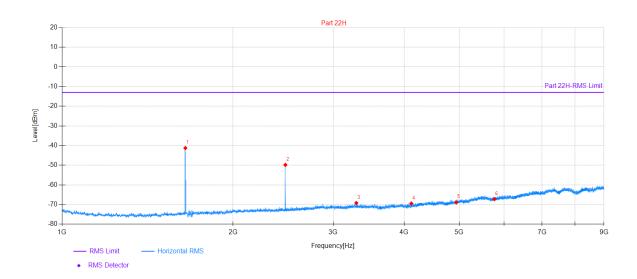


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Field Strength of Spurious Radiation

Test Band = GSM 850_ TM1
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	78.53	-49.83	25.29	-41.26	-13.00	28.26	Horizontal
2	2472.6	67.21	-49.06	27.27	-49.84	-13.00	36.84	Horizontal
3	3296.8	46.07	-48.63	28.62	-69.20	-13.00	56.20	Horizontal
4	4121	44.49	-48.28	29.62	-69.43	-13.00	56.43	Horizontal
5	4945.2	43.05	-48.07	31.37	-68.92	-13.00	55.92	Horizontal
6	5769.4	42.91	-47.65	32.75	-67.25	-13.00	54.25	Horizontal



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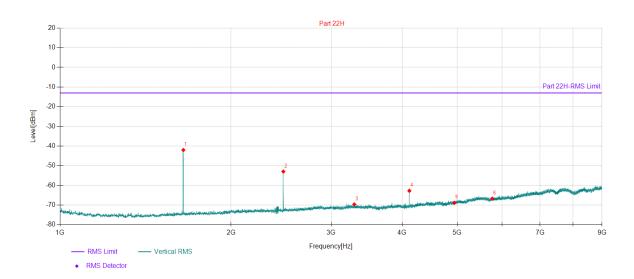


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Test Band = GSM 850_ TM1 Test Channel = Low Channel



Data	List							
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.4	77.78	-49.83	25.29	-42.01	-13.00	29.01	Vertical
2	2472.6	64.08	-49.06	27.27	-52.97	-13.00	39.97	Vertical
3	3296.8	45.60	-48.63	28.62	-69.67	-13.00	56.67	Vertical
4	4121	51.16	-48.28	29.62	-62.76	-13.00	49.76	Vertical
5	4945.2	43.12	-48.07	31.37	-68.85	-13.00	55.85	Vertical
6	5769.4	43.46	-47.65	32.75	-66.70	-13.00	53.70	Vertical



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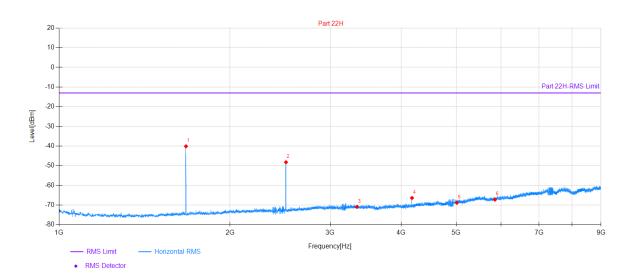


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Test Band = GSM 850_ TM1 Test Channel = Mid Channel



Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity			
1	1672.8	79.53	-49.78	25.39	-40.12	-13.00	27.12	Horizontal			
2	2509.2	68.64	-48.93	27.32	-48.22	-13.00	35.22	Horizontal			
3	3345.6	44.35	-48.66	28.64	-70.93	-13.00	57.93	Horizontal			
4	4182	47.48	-48.34	29.73	-66.39	-13.00	53.39	Horizontal			
5	5018.4	42.84	-47.95	31.54	-68.83	-13.00	55.83	Horizontal			
6	5854.8	42.59	-47.33	32.77	-67.23	-13.00	54.23	Horizontal			



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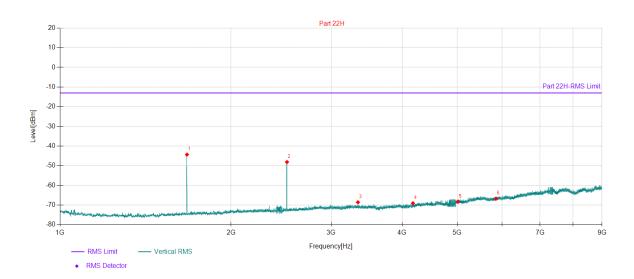


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Test Band = GSM 850 TM1 Test Channel = Mid Channel



Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity			
1	1672.8	75.30	-49.78	25.39	-44.35	-13.00	31.35	Vertical			
2	2509.2	68.73	-48.93	27.32	-48.13	-13.00	35.13	Vertical			
3	3345.6	46.71	-48.66	28.64	-68.57	-13.00	55.57	Vertical			
4	4182	44.81	-48.34	29.73	-69.06	-13.00	56.06	Vertical			
5	5018.4	43.36	-47.95	31.54	-68.31	-13.00	55.31	Vertical			
6	5854.8	43.11	-47.33	32.77	-66.71	-13.00	53.71	Vertical			



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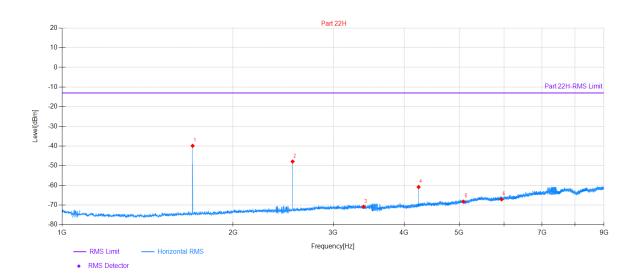


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Test Band = GSM 850_ TM1 Test Channel = High Channel



Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity			
1	1697.6	79.60	-49.72	25.49	-39.89	-13.00	26.89	Horizontal			
2	2546.4	69.00	-49.03	27.41	-47.87	-13.00	34.87	Horizontal			
3	3395.2	44.38	-48.69	28.66	-70.91	-13.00	57.91	Horizontal			
4	4244	52.81	-48.21	29.84	-60.83	-13.00	47.83	Horizontal			
5	5092.8	43.20	-47.92	31.72	-68.26	-13.00	55.26	Horizontal			
6	5941.6	42.63	-47.26	32.79	-67.10	-13.00	54.10	Horizontal			



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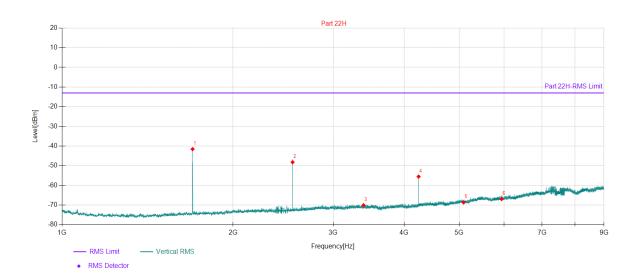


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Test Band = GSM 850_ TM1 Test Channel = High Channel



Data	List							
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.6	77.93	-49.72	25.49	-41.56	-13.00	28.56	Vertical
2	2546.4	68.66	-49.03	27.41	-48.21	-13.00	35.21	Vertical
3	3395.2	45.19	-48.69	28.66	-70.10	-13.00	57.10	Vertical
4	4244	58.11	-48.21	29.84	-55.53	-13.00	42.53	Vertical
5	5092.8	42.79	-47.92	31.72	-68.67	-13.00	55.67	Vertical
6	5941.6	42.77	-47.26	32.79	-66.96	-13.00	53.96	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 = 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

			Ва	and: GSM850			
Network	Frequency	Temp.	Voltage	Freq. Error	Freq. vs. R	ated (ppm)	Verdict
Network	(MHz)	(°C)	(VDC)	(Hz)	Result	Limit	verdict
			3.4	29.477	0.0358	-2.5 to 2.5	Pass
		20	3.89	24.311	0.0295	-2.5 to 2.5	Pass
			4.48	23.536	0.0286	-2.5 to 2.5	Pass
		-30	3.89	19.630	0.0238	-2.5 to 2.5	Pass
		-20	3.89	19.404	0.0235	-2.5 to 2.5	Pass
	824.2	-10	3.89	21.406	0.0260	-2.5 to 2.5	Pass
		0	3.89	16.950	0.0206	-2.5 to 2.5	Pass
		10	3.89	19.920	0.0242	-2.5 to 2.5	Pass
		30	3.89	22.762	0.0276	-2.5 to 2.5	Pass
		40	3.89	20.340	0.0247	-2.5 to 2.5	Pass
		50	3.89	23.310	0.0283	-2.5 to 2.5	Pass
			3.4	28.347	0.0339	-2.5 to 2.5	Pass
		20	3.89	30.090	0.0360	-2.5 to 2.5	Pass
			4.48	24.860	0.0297	-2.5 to 2.5	Pass
		-30	3.89	27.475	0.0328	-2.5 to 2.5	Pass
		-20	3.89	27.282	0.0326	-2.5 to 2.5	Pass
GSM	836.6	-10	3.89	27.508	0.0329	-2.5 to 2.5	Pass
		0	3.89	24.957	0.0298	-2.5 to 2.5	Pass
		10	3.89	27.798	0.0332	-2.5 to 2.5	Pass
		30	3.89	24.860	0.0297	-2.5 to 2.5	Pass
		40	3.89	25.215	0.0301	-2.5 to 2.5	Pass
		50	3.89	27.443	0.0328	-2.5 to 2.5	Pass
			3.4	25.474	0.0300	-2.5 to 2.5	Pass
		20	3.89	27.411	0.0323	-2.5 to 2.5	Pass
			4.48	27.411	0.0323	-2.5 to 2.5	Pass
		-30	3.89	26.281	0.0310	-2.5 to 2.5	Pass
		-20	3.89	24.440	0.0288	-2.5 to 2.5	Pass
	848.8	-10	3.89	25.022	0.0295	-2.5 to 2.5	Pass
		0	3.89	25.280	0.0298	-2.5 to 2.5	Pass
		10	3.89	25.700	0.0303	-2.5 to 2.5	Pass
		30	3.89	23.795	0.0280	-2.5 to 2.5	Pass
		40	3.89	24.892	0.0293	-2.5 to 2.5	Pass
		50	3.89	25.248	0.0297	-2.5 to 2.5	Pass
			3.4	29.025	0.0352	-2.5 to 2.5	Pass
		20	3.89	28.638	0.0347	-2.5 to 2.5	Pass
		-	4.48	27.282	0.0331	-2.5 to 2.5	Pass
EGPRS	824.2	-30	3.89	28.702	0.0348	-2.5 to 2.5	Pass
		-20	3.89	28.315	0.0344	-2.5 to 2.5	Pass
		-10	3.89	28.573	0.0347	-2.5 to 2.5	Pass
		0	3.89	29.348	0.0356	-2.5 to 2.5	Pass



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		1 agc. 04 01 04					
		10	3.89	28.864	0.0350	-2.5 to 2.5	Pass
		30	3.89	29.445	0.0357	-2.5 to 2.5	Pass
		40	3.89	28.347	0.0344	-2.5 to 2.5	Pass
		50	3.89	29.897	0.0363	-2.5 to 2.5	Pass
		20	3.4	27.895	0.0333	-2.5 to 2.5	Pass
			3.89	29.542	0.0353	-2.5 to 2.5	Pass
	836.6		4.48	27.701	0.0331	-2.5 to 2.5	Pass
		-30	3.89	29.768	0.0356	-2.5 to 2.5	Pass
		-20	3.89	30.220	0.0361	-2.5 to 2.5	Pass
		-10	3.89	30.704	0.0367	-2.5 to 2.5	Pass
		0	3.89	30.542	0.0365	-2.5 to 2.5	Pass
		10	3.89	30.801	0.0368	-2.5 to 2.5	Pass
		30	3.89	31.931	0.0382	-2.5 to 2.5	Pass
		40	3.89	30.316	0.0362	-2.5 to 2.5	Pass
		50	3.89	31.414	0.0375	-2.5 to 2.5	Pass
	848.8	20	3.4	29.961	0.0353	-2.5 to 2.5	Pass
			3.89	30.284	0.0357	-2.5 to 2.5	Pass
			4.48	30.672	0.0361	-2.5 to 2.5	Pass
		-30	3.89	30.898	0.0364	-2.5 to 2.5	Pass
		-20	3.89	30.026	0.0354	-2.5 to 2.5	Pass
		-10	3.89	28.379	0.0334	-2.5 to 2.5	Pass
		0	3.89	29.445	0.0347	-2.5 to 2.5	Pass
		10	3.89	30.058	0.0354	-2.5 to 2.5	Pass
		30	3.89	30.575	0.0360	-2.5 to 2.5	Pass
		40	3.89	29.961	0.0353	-2.5 to 2.5	Pass
		50	3.89	29.864	0.0352	-2.5 to 2.5	Pass

---End of Attachment---



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