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Appendix B.2

GSM 1900



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1. Effective (Isotropic) Radiated Power Output Data

1.1 PCS1900 EIRP

1.1.1 Test Result

				Band: PCS1900				
ENV	N	/lode	Frequency	Conducted Power	Gain	EIRP	(dBm)	Verdict
EINV	Network	Subset	(MHz)	(dBm)	(dBi)	Result	Limit	verdict
			1850.2	21.23	0.34	21.57	<=33.00	Pass
	GSM	GSM	1880	21.34	0.34	21.68	<=33.00	Pass
			1909.8	21.26	0.34	21.6	<=33.00	Pass
		1 TX Slot	1850.2	20.53	0.34	20.87	<=33.00	Pass
		2 TX Slots	1850.2	19.21	0.34	19.55	<=33.00	Pass
		3 TX Slots	1850.2	18.33	0.34	18.67	<=33.00	Pass
		4 TX Slots	1850.2	15.86	0.34	16.2	<=33.00	Pass
NTNV		1 TX Slot	1880	20.68	0.34	21.02	<=33.00	Pass
	EGPRS	2 TX Slots	1880	19.2	0.34	19.54	<=33.00	Pass
	EGFNS	3 TX Slots	1880	17.21	0.34	17.55	<=33.00	Pass
		4 TX Slots	1880	15.76	0.34	16.1	<=33.00	Pass
		1 TX Slot	1909.8	20.53	0.34	20.87	<=33.00	Pass
		2 TX Slots	1909.8	19.36	0.34	19.7	<=33.00	Pass
		3 TX Slots	1909.8	17.04	0.34	17.38	<=33.00	Pass
		4 TX Slots	1909.8	15.72	0.34	16.06	<=33.00	Pass
Note1: El	RP=Conduc	ted Power+Ante	nna Gain	<u> </u>		<u> </u>		



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2. Frequency Stability

2.1 PCS1900

2.1.1 Test Result

			Ba	nd: PCS1900			
NI - 4I-	Frequency	Temp.	Voltage	Freq. Error	Freq. vs. F	Rated (ppm)	\/!:-4
Network	(MHz)	(°C)	(VDČ)	(Hz)	Result	Limit	Verdict
	,	, ,	3.5	-6.634	-0.0036	1	Pass
		20	3.87	-1.282	-0.0007	1	Pass
			4.45	-14.655	-0.0079	1	Pass
		-30	3.87	1.028	0.0006	1	Pass
		-20	3.87	-5.840	-0.0032	1	Pass
	1850.2	-10	3.87	-7.312	-0.0040	1	Pass
		0	3.87	-8.362	-0.0045	1	Pass
		10	3.87	-4.349	-0.0024	1	Pass
		30	3.87	-3.539	-0.0019	1	Pass
		40	3.87	-8.785	-0.0047	1	Pass
		50	3.87	-9.483	-0.0051	1	Pass
			3.5	-5.261	-0.0028	1	Pass
		20	3.87	-4.912	-0.0026	1	Pass
			4.45	-4.613	-0.0025	1	Pass
		-30	3.87	1.898	0.0010	1	Pass
	1880	-20	3.87	-10.623	-0.0057	1	Pass
GSM		-10	3.87	-3.956	-0.0021	1	Pass
		0	3.87	-3.084	-0.0016	1	Pass
		10	3.87	-8.358	-0.0044	1	Pass
		30	3.87	-2.976	-0.0016	1	Pass
		40	3.87	-8.838	-0.0047	1	Pass
		50	3.87	-3.270	-0.0017	1	Pass
		20	3.5	-7.970	-0.0042	1	Pass
			3.87	-4.928	-0.0026	1	Pass
			4.45	-4.986	-0.0026	1	Pass
		-30	3.87	-3.330	-0.0017	1	Pass
		-20	3.87	-9.292	-0.0049	1	Pass
	1909.8	-10	3.87	-6.041	-0.0032	1	Pass
		0	3.87	-8.575	-0.0045	1	Pass
		10	3.87	-9.253	-0.0048	1	Pass
		30	3.87	-4.889	-0.0026	1	Pass
		40	3.87	-4.266	-0.0022	1	Pass
		50	3.87	-6.255	-0.0033	1	Pass
			3.5	-8.691	-0.0047	1	Pass
		20	3.87	-3.391	-0.0018	1	Pass
EGPRS	1850.2		4.45	-6.618	-0.0036	1	Pass
LGI IN	1000.2	-30	3.87	-4.986	-0.0027	1	Pass
		-20	3.87	-10.655	-0.0058	1	Pass
		-10	3.87	-8.490	-0.0046	1	Pass



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			ı ay	0. 10	1 44	
	0	3.87	-3.907	-0.0021	1	Pass
	10	3.87	-3.006	-0.0016	/	Pass
	30	3.87	-1.112	-0.0006	/	Pass
	40	3.87	-5.610	-0.0030	/	Pass
	50	3.87	-11.108	-0.0060	/	Pass
		3.5	-4.842	-0.0026	/	Pass
	20	3.87	-6.674	-0.0036	/	Pass
		4.45	-7.786	-0.0041	/	Pass
	-30	3.87	-5.939	-0.0032	/	Pass
	-20	3.87	-15.690	-0.0083	/	Pass
1880	-10	3.87	-4.735	-0.0025	/	Pass
	0	3.87	-4.196	-0.0022	/	Pass
	10	3.87	-2.685	-0.0014	/	Pass
	30	3.87	-6.871	-0.0037	/	Pass
	40	3.87	-0.799	-0.0004	/	Pass
	50	3.87	-8.117	-0.0043	/	Pass
		3.5	-6.072	-0.0032	/	Pass
	20	3.87	-12.936	-0.0068	1	Pass
		4.45	-9.501	-0.0050	1	Pass
	-30	3.87	-11.752	-0.0062	1	Pass
	-20	3.87	-8.263	-0.0043	1	Pass
1909.8	-10	3.87	-8.029	-0.0042	/	Pass
	0	3.87	-6.334	-0.0033	/	Pass
	10	3.87	-9.622	-0.0050	/	Pass
	30	3.87	-11.849	-0.0062	/	Pass
	40	3.87	-10.863	-0.0057	/	Pass
	50	3.87	-7.467	-0.0039	/	Pass



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3. 99% & 26dB Bandwidth

3.1 PCS1900_OBW

3.1.1 Test Result

	Band: PCS1900											
ENV	N	lode	Frequency	99% Occupied E	Bandwidth (MHz)	Verdict						
EINV	Network	Subset	(MHz)	Result	Limit							
	GSM	GSM GSM	1850.2	0.248	1	Pass						
			1880	0.242	1	Pass						
NTNV			1909.8	0.241	1	Pass						
INTINV			1850.2	0.248	1	Pass						
	EGPRS	RS 1 TX Slot	1880	0.249	1	Pass						
			1909.8	0.243	1	Pass						

3.2 PCS1900 XDB

3.2.1 Test Result

			Band: PCS190	0		
ENI) /	IV	Mode		26dB Bandv	vidth (MHz)	Vardiet
ENV	Network Subset		(MHz)	Result	Limit	Verdict
			1850.2	0.310	1	Pass
	GSM	GSM	1880	0.320	1	Pass
NITNI\/			1909.8	0.313	1	Pass
NTNV		1 TX Slot	1850.2	0.311	1	Pass
	EGPRS		1880	0.313	1	Pass
			1909.8	0.309	1	Pass



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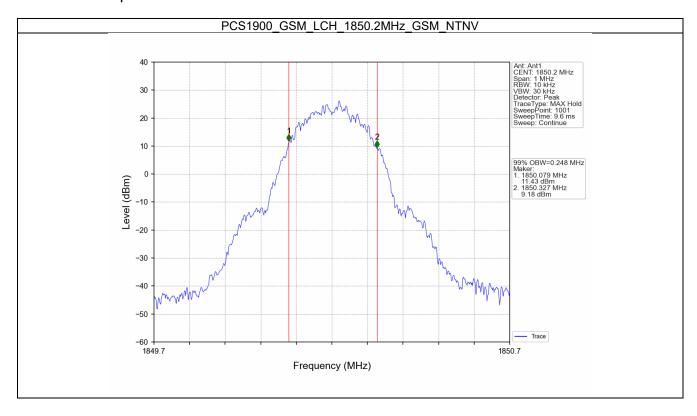


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3.1 PCS1900_OBW

3.1.2 Test Graph





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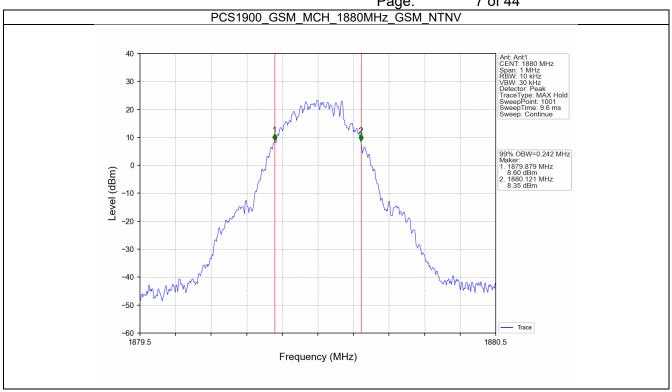
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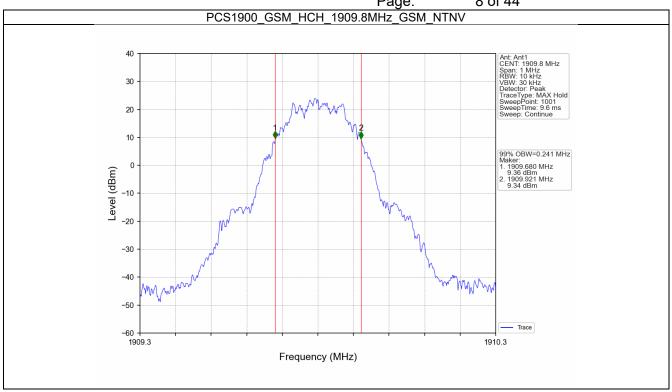
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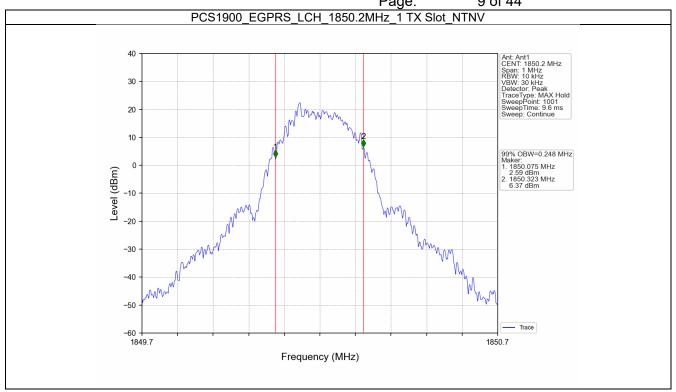
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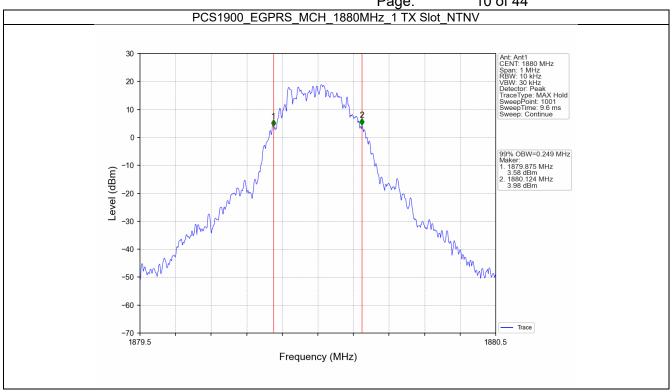
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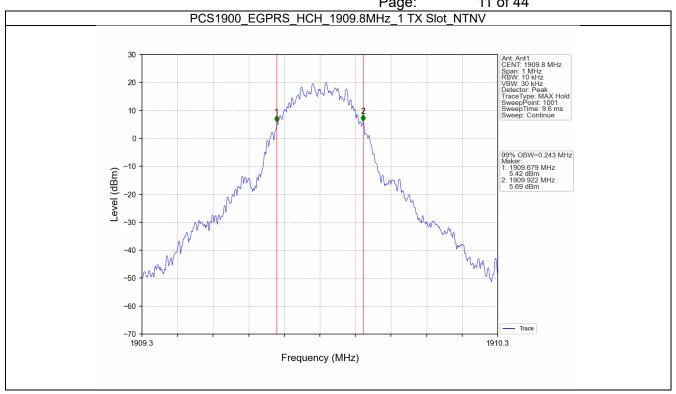
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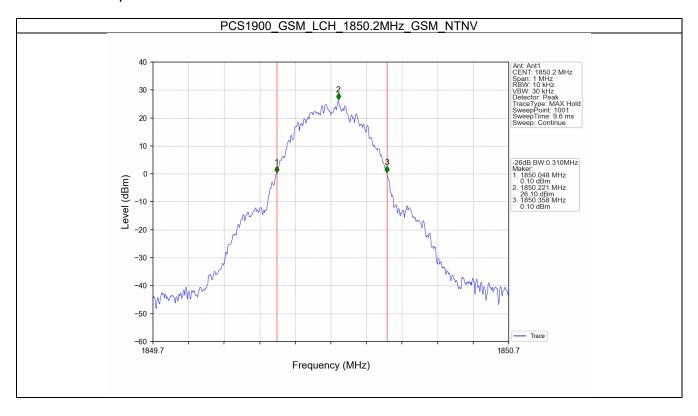
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3.2 PCS1900_XDB

3.2.2 Test Graph





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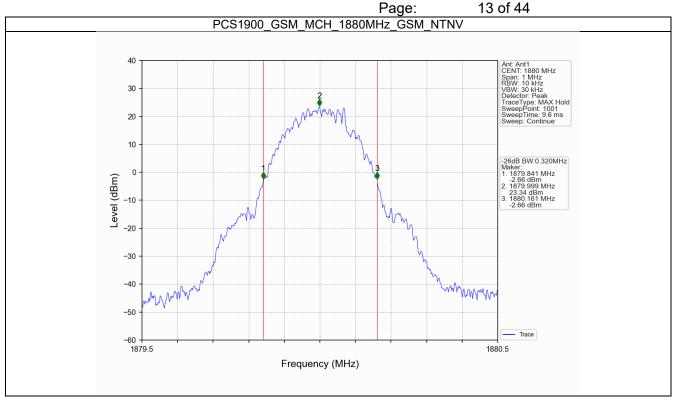
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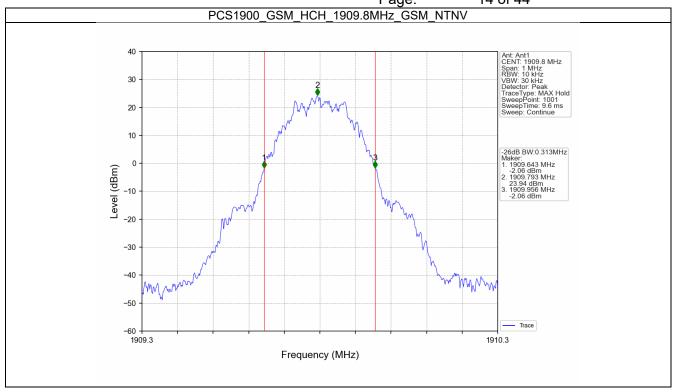
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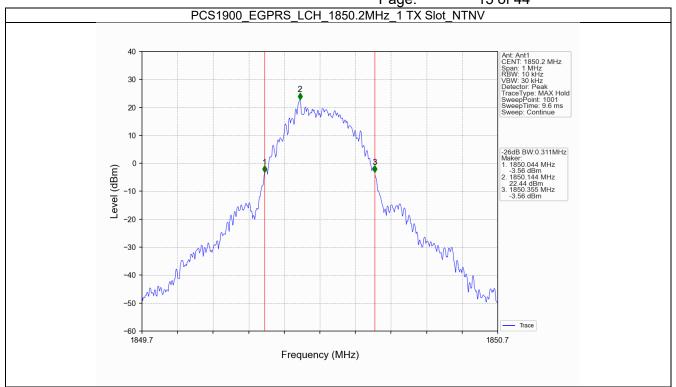
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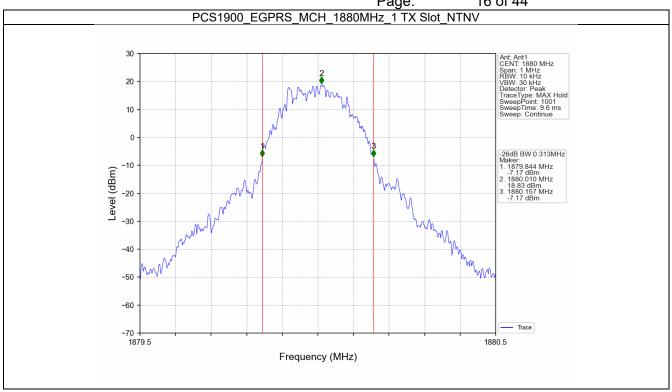
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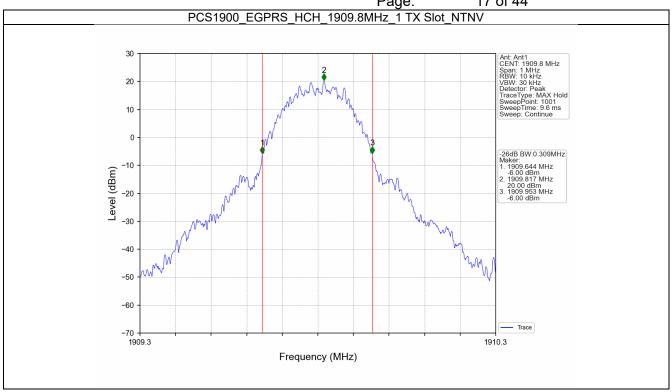
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4. Peak-Average Ratio

4.1 PCS1900

4.1.1 Test Result

Band: PCS1900											
ENV	Mode		Frequency	Peak-Averag	e Ratio (dB)	Vardiat					
EINV	Network	Subset	(MHz)	Result	Limit	Verdict					
		GSM 4 TX Slots	1850.2	9.68	<=13	Pass					
	GSM		1880	9.54	<=13	Pass					
NTNV			1909.8	9.89	<=13	Pass					
INTINV			1850.2	8.10	<=13	Pass					
	EGPRS		1880	8.43	<=13	Pass					
			1909.8	8.21	<=13	Pass					



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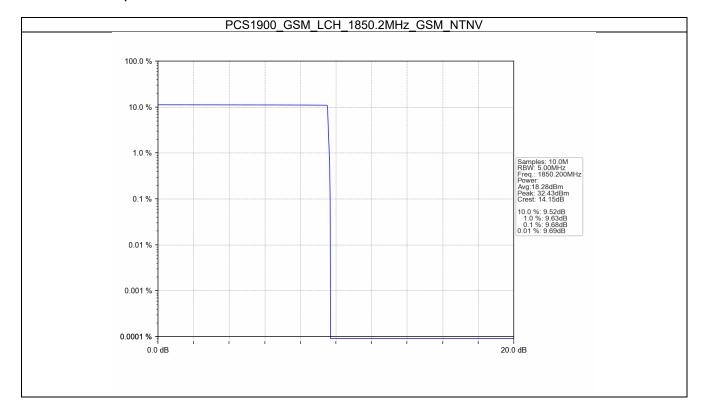
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4.1 PCS1900

4.1.2 Test Graph





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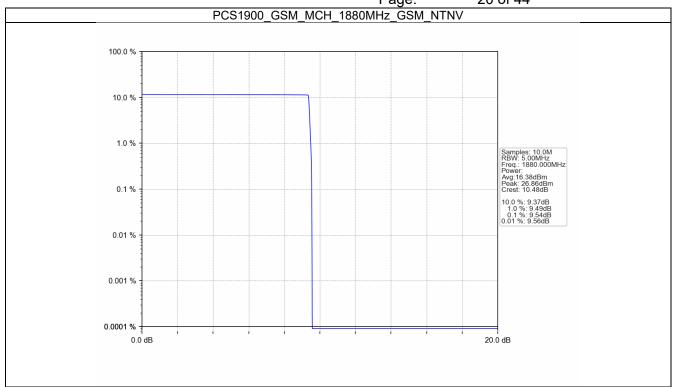
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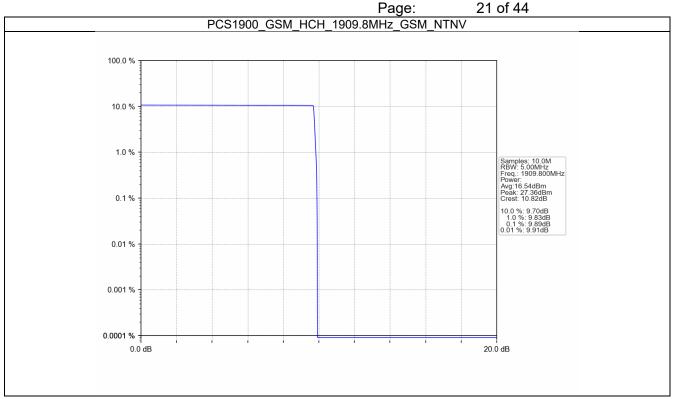
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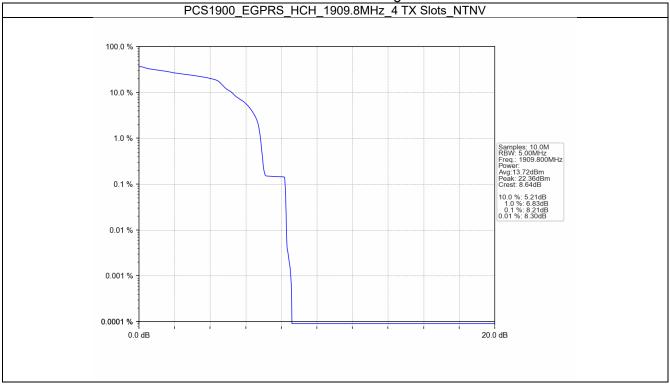
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5. Spurious Emission & Band Edges

5.1 PCS1900

5.1.1 Test Result

			Band: PCS19	000			
ENIV/	Mode		Frequency	Frequency Spurious Emission		Verdict	
ENV	Network Subset		(MHz)	Result	Result Limit		
			1850.2	Refer To Test	Graph	Pass	
	GSM	GSM GSM	1880	Refer To Test	Graph	Pass	
NTNV			1909.8	Refer To Test	Graph	Pass	
INTINV			1850.2	Refer To Test	Graph	Pass	
	EGPRS	RS 1 TX Slot	1880	Refer To Test	Graph	Pass	
			1909.8	Refer To Test	Graph	Pass	



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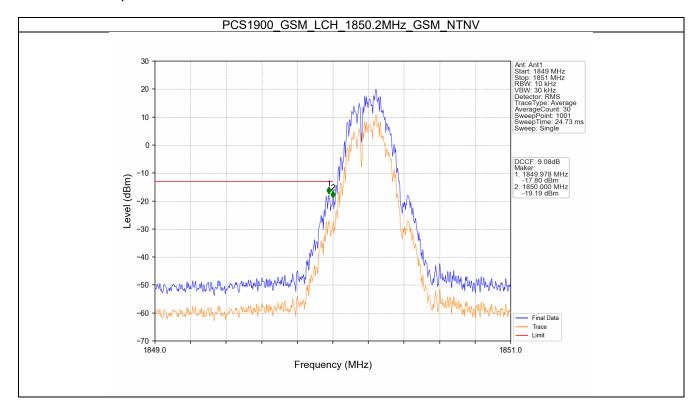
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5.1 PCS1900

5.1.2 Test Graph





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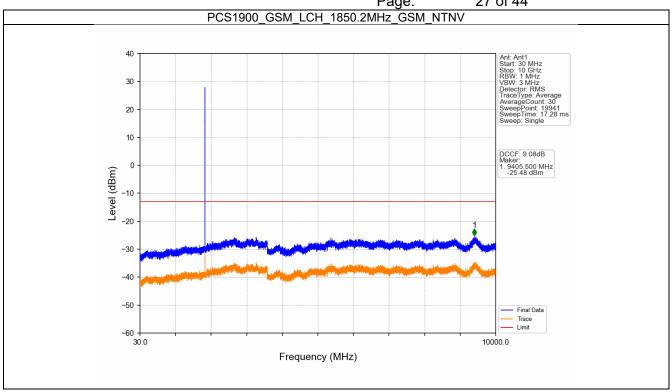
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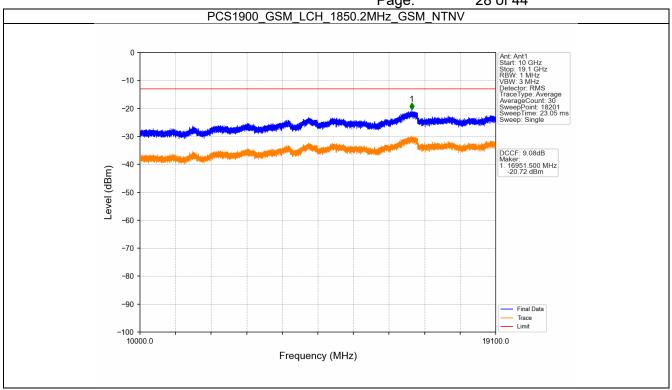
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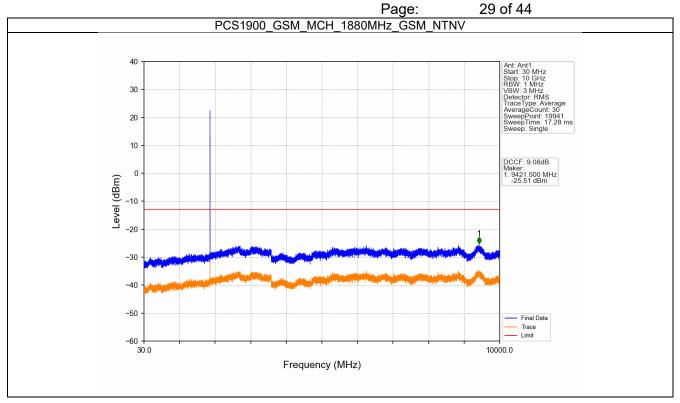
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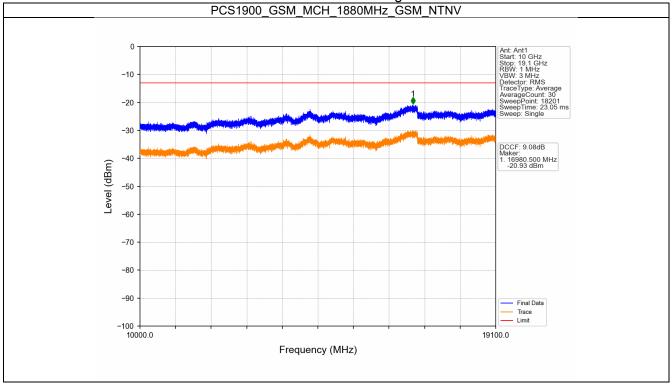
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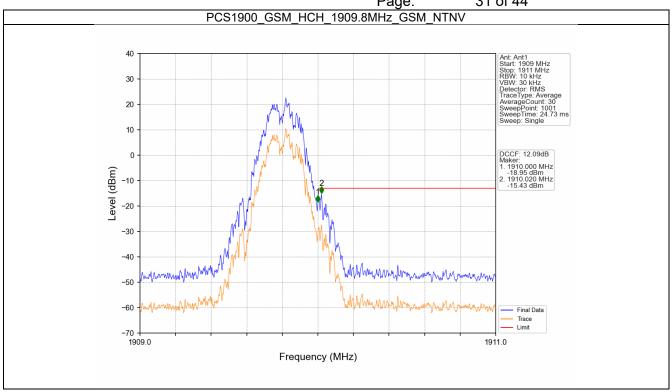
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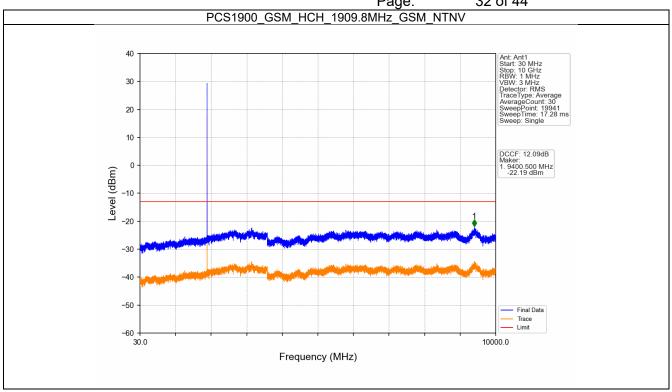
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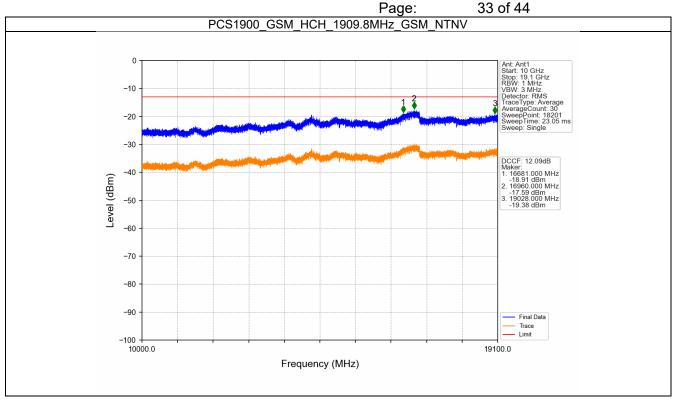
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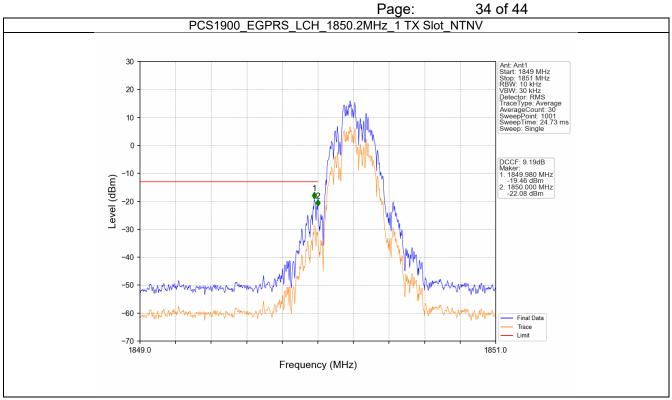
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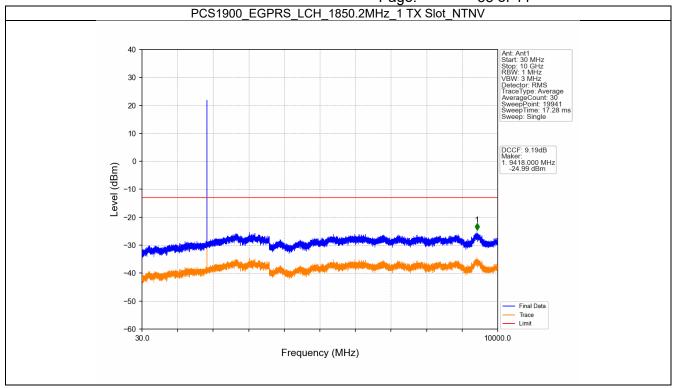
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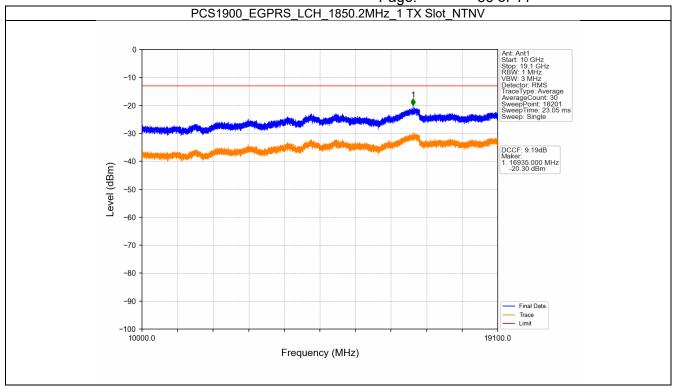
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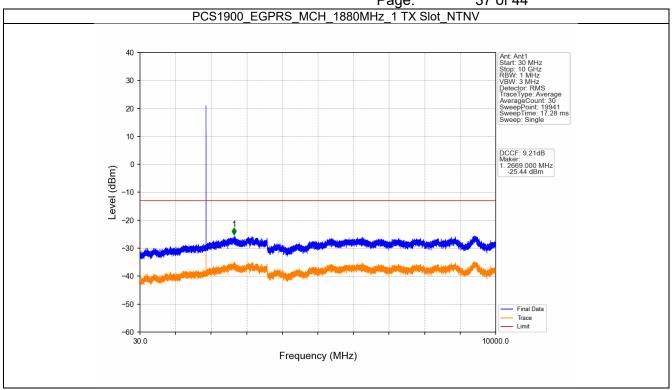
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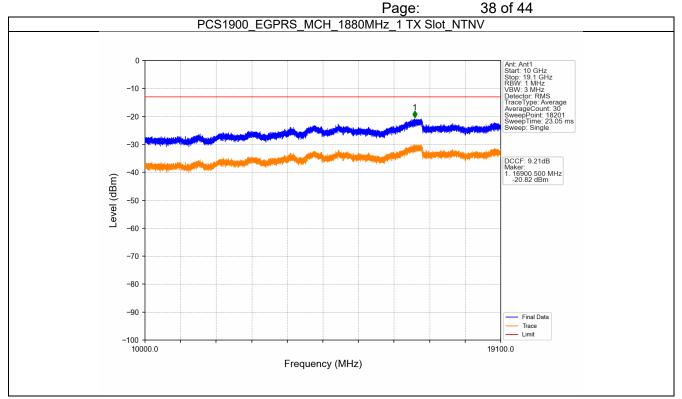
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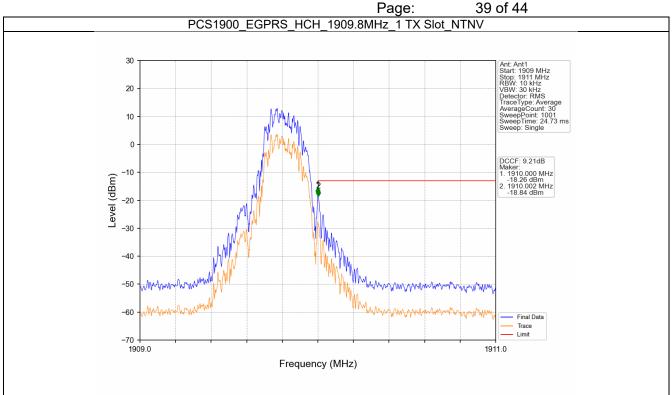
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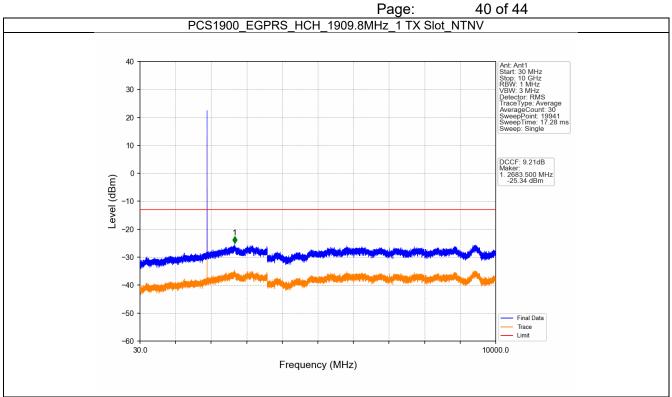
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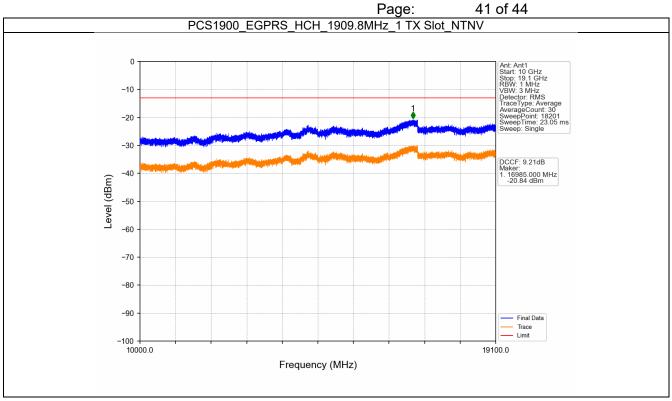
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6. Field Strength of Spurious Radiation

Test Band = GSM_1900 Test Channel = LCH

Final Da	Final Data List											
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity				
1	3700.535	75.54	-50.02	30.30	-39.44	-13.00	26.44	Horizontal				
2	5550.8775	83.44	-45.46	33.20	-24.08	-13.00	11.08	Horizontal				
3	9250.8125	50.81	-41.18	39.10	-46.53	-13.00	33.53	Horizontal				
4	11917.1959	47.62	-37.98	39.48	-46.14	-13.00	33.14	Horizontal				
5	15019.351	48.98	-38.91	39.88	-45.31	-13.00	32.31	Horizontal				
6	17939.247	49.17	-42.98	42.44	-46.63	-13.00	33.63	Horizontal				

Final Da	Final Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity			
1	3700.535	71.46	-50.02	30.30	-43.52	-13.00	30.52	Vertical			
2	5550.8775	81.53	-45.46	33.20	-25.99	-13.00	12.99	Vertical			
3	9250.8125	51.79	-41.18	39.10	-45.55	-13.00	32.55	Vertical			
4	11918.6959	47.91	-38.00	39.48	-45.87	-13.00	32.87	Vertical			
5	15030.6015	49.33	-39.00	39.87	-45.06	-13.00	32.06	Vertical			
6	17977.4989	49.84	-43.65	42.66	-46.41	-13.00	33.41	Vertical			



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Test Band = GSM_1900 **Test Channel = MCH**

Final Da	Final Data List											
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity				
1	3759.788	73.97	-49.40	30.50	-40.19	-13.00	27.19	Horizontal				
2	5640.132	88.56	-45.31	33.32	-18.69	-13.00	5.69	Horizontal				
3	9400.82	56.14	-41.33	38.70	-41.75	-13.00	28.75	Horizontal				
4	11899.945	47.94	-37.71	39.50	-45.53	-13.00	32.53	Horizontal				
5	15033.6017	48.84	-39.02	39.87	-45.57	-13.00	32.57	Horizontal				
6	17969.9985	49.68	-43.46	42.62	-46.42	-13.00	33.42	Horizontal				

Final Da	Final Data List											
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity				
1	3759.788	73.40	-49.40	30.50	-40.76	-13.00	27.76	Vertical				
2	5640.132	85.57	-45.31	33.32	-21.68	-13.00	8.68	Vertical				
3	7519.726	52.35	-43.52	36.68	-49.75	-13.00	36.75	Vertical				
4	9400.07	56.72	-41.33	38.70	-41.17	-13.00	28.17	Vertical				
5	11916.4458	47.65	-37.97	39.48	-46.10	-13.00	33.10	Vertical				
6	17981.2491	49.91	-43.74	42.69	-46.40	-13.00	33.40	Vertical				



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Test Band = GSM 1900 Test Channel = HCH

Final Da	Final Data List											
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity				
1	3819.791	69.23	-49.64	30.46	-45.21	-13.00	32.21	Horizontal				
2	5729.3865	89.21	-45.45	33.74	-17.76	-13.00	4.76	Horizontal				
3	7638.9819	52.50	-43.67	36.78	-49.65	-13.00	36.65	Horizontal				
4	9549.3275	59.22	-41.61	39.10	-38.55	-13.00	25.55	Horizontal				
5	12181.9591	47.83	-38.02	39.45	-46.00	-13.00	33.00	Horizontal				
6	17994.7497	49.91	-44.06	42.77	-46.64	-13.00	33.64	Horizontal				

Final Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3819.791	69.01	-49.64	30.46	-45.43	-13.00	32.43	Vertical
2	5729.3865	83.52	-45.45	33.74	-23.45	-13.00	10.45	Vertical
3	7638.9819	51.94	-43.67	36.78	-50.21	-13.00	37.21	Vertical
4	9549.3275	62.17	-41.61	39.10	-35.60	-13.00	22.60	Vertical
5	13406.0203	48.19	-39.11	40.29	-45.89	-13.00	32.89	Vertical
6	17921.2461	49.96	-42.98	42.33	-45.95	-13.00	32.95	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

---End of Attachment---



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