



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

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Appendix B.2

GSM 1900



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 Shenzhen Branch, Wireless Laboratory

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1. Effective (Isotropic) Radiated Power Output Data

1.1 PCS1900_EIRP

1.1.1 Test Result

Ant0

Band: PCS1900									
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict	
	Network	Subset				Result	Limit		
NTNV	GSM	GSM	1850.2	29.57	-1.50	28.07	<=33.01	Pass	
			1880	29.52	-1.50	28.02	<=33.01	Pass	
			1909.8	29.44	-1.50	27.94	<=33.01	Pass	
	GPRS	1 TX Slot	1850.2	29.65	-1.50	28.15	<=33.01	Pass	
			2 TX Slots	1850.2	27.69	-1.50	26.19	<=33.01	Pass
			3 TX Slots	1850.2	25.68	-1.50	24.18	<=33.01	Pass
			4 TX Slots	1850.2	24.67	-1.50	23.17	<=33.01	Pass
		2 TX Slots	1880	29.56	-1.50	28.06	<=33.01	Pass	
			1880	27.64	-1.50	26.14	<=33.01	Pass	
			1880	25.65	-1.50	24.15	<=33.01	Pass	
			1880	24.64	-1.50	23.14	<=33.01	Pass	
		3 TX Slots	1909.8	29.48	-1.50	27.98	<=33.01	Pass	
			1909.8	27.59	-1.50	26.09	<=33.01	Pass	
			1909.8	25.61	-1.50	24.11	<=33.01	Pass	
			1909.8	24.60	-1.50	23.10	<=33.01	Pass	
	EGPRS	1 TX Slot	1850.2	20.48	-1.50	18.98	<=33.01	Pass	
			1850.2	23.48	-1.50	21.98	<=33.01	Pass	
			1850.2	21.22	-1.50	19.72	<=33.01	Pass	
			1850.2	19.86	-1.50	18.36	<=33.01	Pass	
		2 TX Slots	1880	26.36	-1.50	24.86	<=33.01	Pass	
			1880	23.68	-1.50	22.18	<=33.01	Pass	
			1880	21.49	-1.50	19.99	<=33.01	Pass	
			1880	20.01	-1.50	18.51	<=33.01	Pass	
		3 TX Slots	1909.8	26.07	-1.50	24.57	<=33.01	Pass	
			1909.8	23.57	-1.50	22.07	<=33.01	Pass	
			1909.8	21.15	-1.50	19.65	<=33.01	Pass	
			1909.8	21.21	-1.50	19.71	<=33.01	Pass	
			1909.8	21.21	-1.50	19.71	<=33.01	Pass	



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2. Frequency Stability

2.1 PCS1900

2.1.1 Test Result

Band: PCS1900								
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
					Result	Limit		
GSM	1850.2	20	3.91	5.380	0.0029	/	Pass	
			3.5	7.541	0.0041	/	Pass	
			4.5	5.817	0.0031	/	Pass	
		-30	3.91	5.774	0.0031	/	Pass	
		-20	3.91	2.363	0.0013	/	Pass	
		-10	3.91	1.360	0.0007	/	Pass	
		0	3.91	3.307	0.0018	/	Pass	
		10	3.91	1.991	0.0011	/	Pass	
		30	3.91	-2.837	-0.0015	/	Pass	
		40	3.91	5.223	0.0028	/	Pass	
		50	3.91	3.804	0.0021	/	Pass	
		1880	20	3.91	-4.041	-0.0021	/	Pass
	3.5			-5.127	-0.0027	/	Pass	
	4.5			-2.567	-0.0014	/	Pass	
	-30		3.91	1.648	0.0009	/	Pass	
	-20		3.91	-1.313	-0.0007	/	Pass	
	-10		3.91	-4.746	-0.0025	/	Pass	
	0		3.91	-2.745	-0.0015	/	Pass	
	10		3.91	0.884	0.0005	/	Pass	
	30		3.91	-1.976	-0.0011	/	Pass	
	40		3.91	-0.427	-0.0002	/	Pass	
	50		3.91	-4.920	-0.0026	/	Pass	
	1909.8		20	3.91	-4.723	-0.0025	/	Pass
		3.5		-1.731	-0.0009	/	Pass	
		4.5		-7.791	-0.0041	/	Pass	
		-30	3.91	-2.989	-0.0016	/	Pass	
		-20	3.91	-4.939	-0.0026	/	Pass	
		-10	3.91	-5.862	-0.0031	/	Pass	
		0	3.91	-3.476	-0.0018	/	Pass	
		10	3.91	-2.210	-0.0012	/	Pass	
		30	3.91	-5.805	-0.0030	/	Pass	
		40	3.91	-0.745	-0.0004	/	Pass	
		50	3.91	-3.281	-0.0017	/	Pass	
		GPRS	1850.2	20	3.91	-20.891	-0.0113	/
	3.5				1.376	0.0007	/	Pass
	4.5				-5.203	-0.0028	/	Pass
-30	3.91			2.083	0.0011	/	Pass	
-20	3.91			-4.501	-0.0024	/	Pass	
-10	3.91			-2.284	-0.0012	/	Pass	



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		0	3.91	-7.110	-0.0038	/	Pass	
		10	3.91	0.200	0.0001	/	Pass	
		30	3.91	-0.781	-0.0004	/	Pass	
		40	3.91	-1.778	-0.0010	/	Pass	
		50	3.91	-4.480	-0.0024	/	Pass	
	1880	20	3.91	-4.056	-0.0022	/	Pass	
			3.5	-2.419	-0.0013	/	Pass	
			4.5	-3.266	-0.0017	/	Pass	
		-30	3.91	-7.182	-0.0038	/	Pass	
		-20	3.91	-5.872	-0.0031	/	Pass	
		-10	3.91	-2.911	-0.0015	/	Pass	
		0	3.91	-2.854	-0.0015	/	Pass	
		10	3.91	-8.203	-0.0044	/	Pass	
		30	3.91	-3.380	-0.0018	/	Pass	
		40	3.91	-2.585	-0.0014	/	Pass	
		50	3.91	-0.892	-0.0005	/	Pass	
		1909.8	20	3.91	-4.875	-0.0026	/	Pass
				3.5	-3.470	-0.0018	/	Pass
				4.5	-9.619	-0.0050	/	Pass
			-30	3.91	-5.637	-0.0030	/	Pass
-20	3.91		-6.813	-0.0036	/	Pass		
-10	3.91		-9.117	-0.0048	/	Pass		
0	3.91		-6.678	-0.0035	/	Pass		
10	3.91		-6.805	-0.0036	/	Pass		
30	3.91		-9.007	-0.0047	/	Pass		
40	3.91		-6.201	-0.0032	/	Pass		
50	3.91		-9.180	-0.0048	/	Pass		
EGPRS	1850.2		20	3.91	-18.720	-0.0101	/	Pass
				3.5	-6.634	-0.0036	/	Pass
				4.5	-9.245	-0.0050	/	Pass
			-30	3.91	-9.091	-0.0049	/	Pass
		-20	3.91	-8.635	-0.0047	/	Pass	
		-10	3.91	-6.934	-0.0037	/	Pass	
		0	3.91	-11.632	-0.0063	/	Pass	
		10	3.91	-9.955	-0.0054	/	Pass	
		30	3.91	-9.856	-0.0053	/	Pass	
		40	3.91	-10.103	-0.0055	/	Pass	
		50	3.91	-14.149	-0.0076	/	Pass	
		1880	20	3.91	-13.896	-0.0074	/	Pass
				3.5	-13.494	-0.0072	/	Pass
				4.5	-13.931	-0.0074	/	Pass
			-30	3.91	-10.452	-0.0056	/	Pass
	-20		3.91	-12.700	-0.0068	/	Pass	
	-10	3.91	-11.004	-0.0059	/	Pass		
	0	3.91	-12.688	-0.0067	/	Pass		
	10	3.91	-9.163	-0.0049	/	Pass		
	30	3.91	-10.334	-0.0055	/	Pass		
40	3.91	-9.326	-0.0050	/	Pass			
50	3.91	-7.593	-0.0040	/	Pass			



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1909.8	20	3.91	-14.164	-0.0074	/	Pass
		3.5	-12.348	-0.0065	/	Pass
		4.5	-12.795	-0.0067	/	Pass
	-30	3.91	-12.913	-0.0068	/	Pass
	-20	3.91	-13.266	-0.0069	/	Pass
	-10	3.91	-14.998	-0.0079	/	Pass
	0	3.91	-15.536	-0.0081	/	Pass
	10	3.91	-14.212	-0.0074	/	Pass
	30	3.91	-15.190	-0.0080	/	Pass
	40	3.91	-16.896	-0.0088	/	Pass
	50	3.91	-10.859	-0.0057	/	Pass



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3. 99% & 26dB Bandwidth

3.1 PCS1900_OBW

3.1.1 Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	0.247	/	Pass
			1880	0.249	/	Pass
			1909.8	0.244	/	Pass
	GPRS	1 TX Slot	1850.2	0.243	/	Pass
			1880	0.248	/	Pass
			1909.8	0.249	/	Pass
	EGPRS	1 TX Slot	1850.2	0.245	/	Pass
			1880	0.243	/	Pass
			1909.8	0.237	/	Pass



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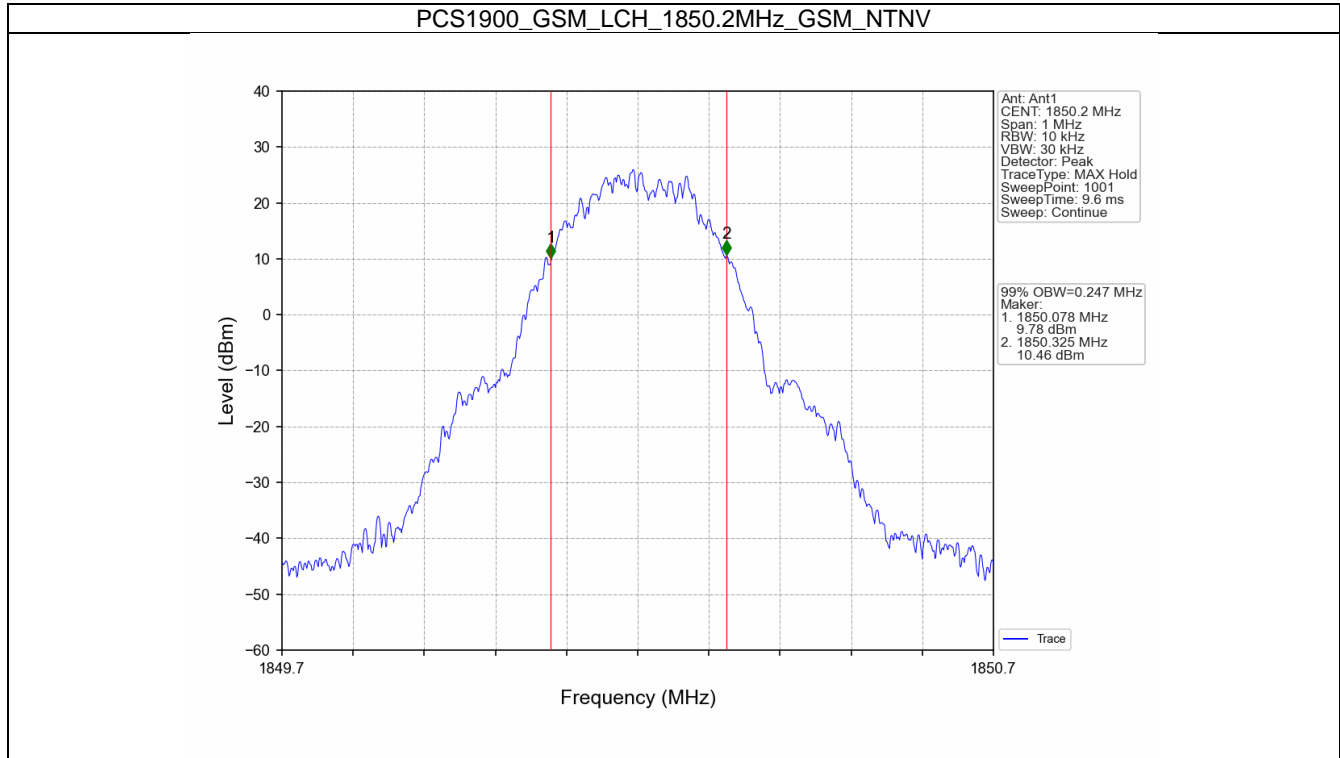
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3.1.2 Test Graph



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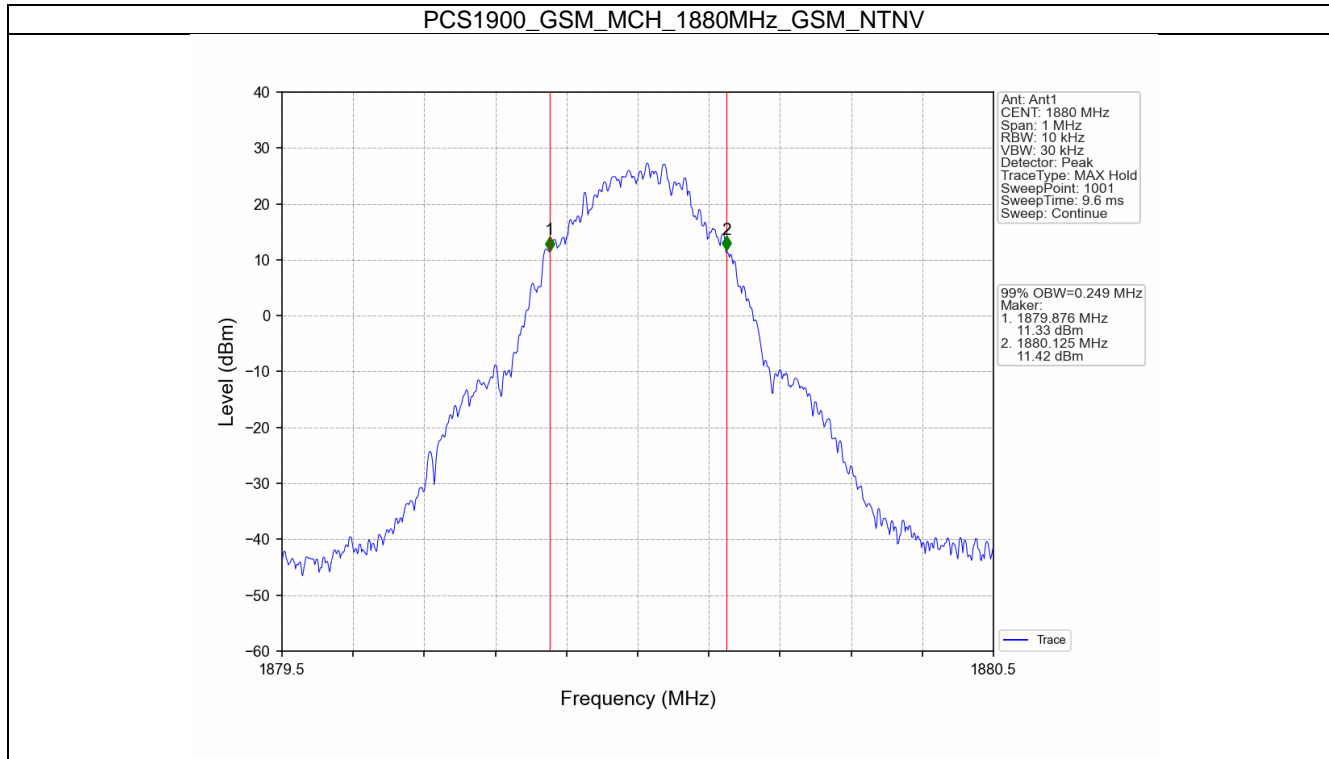


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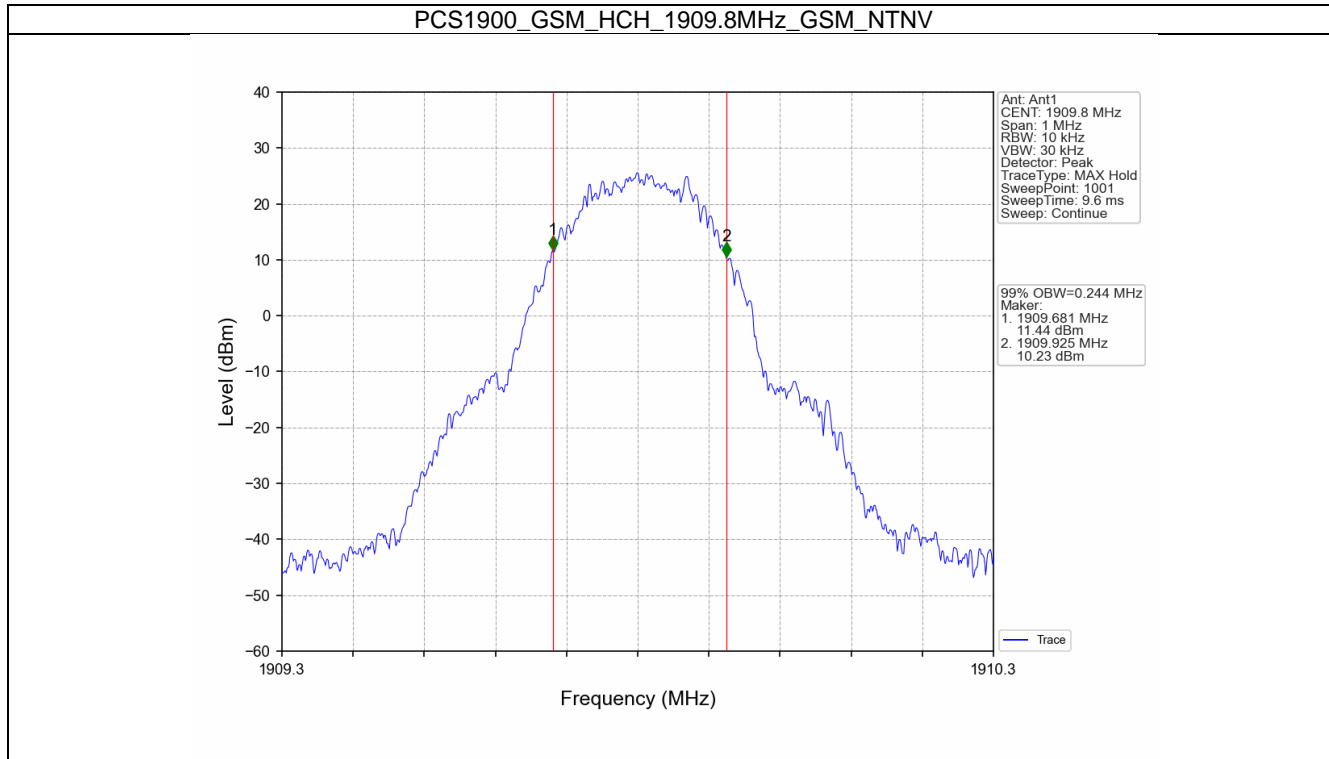


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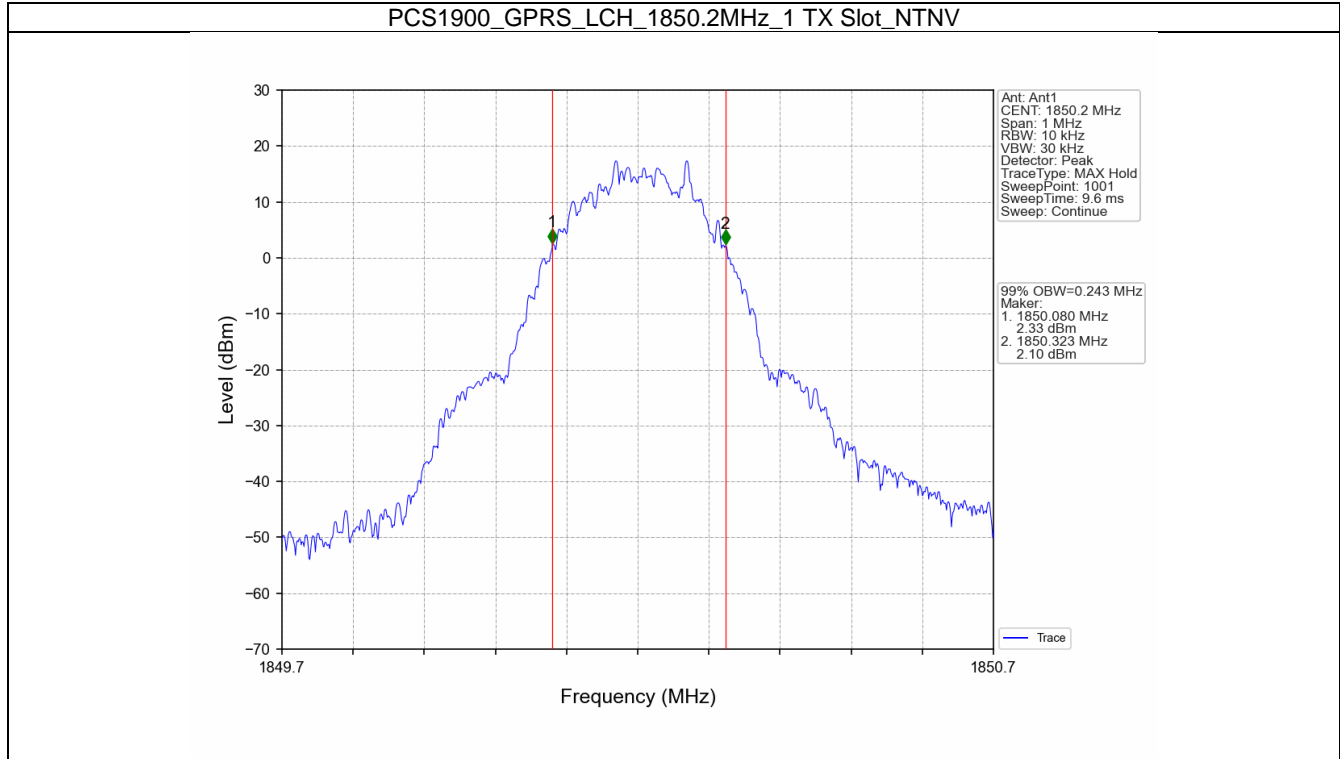
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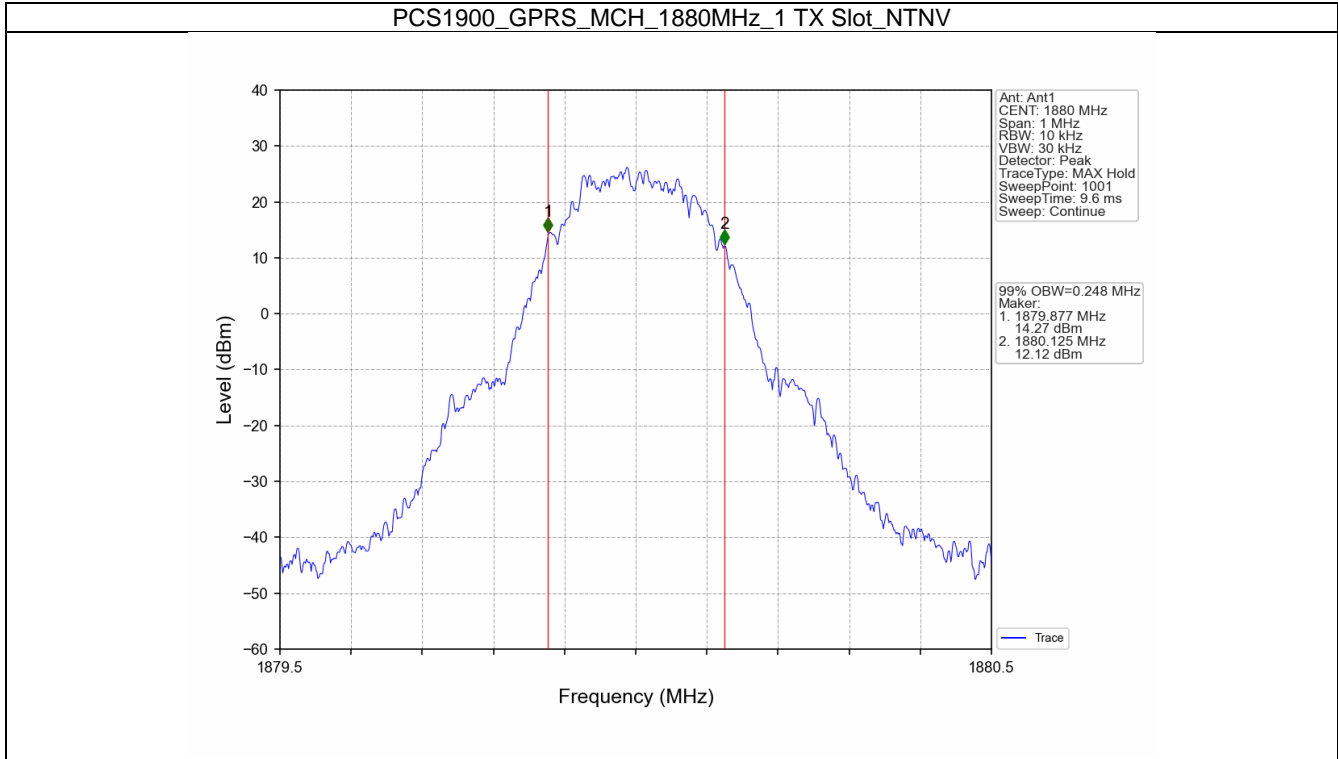
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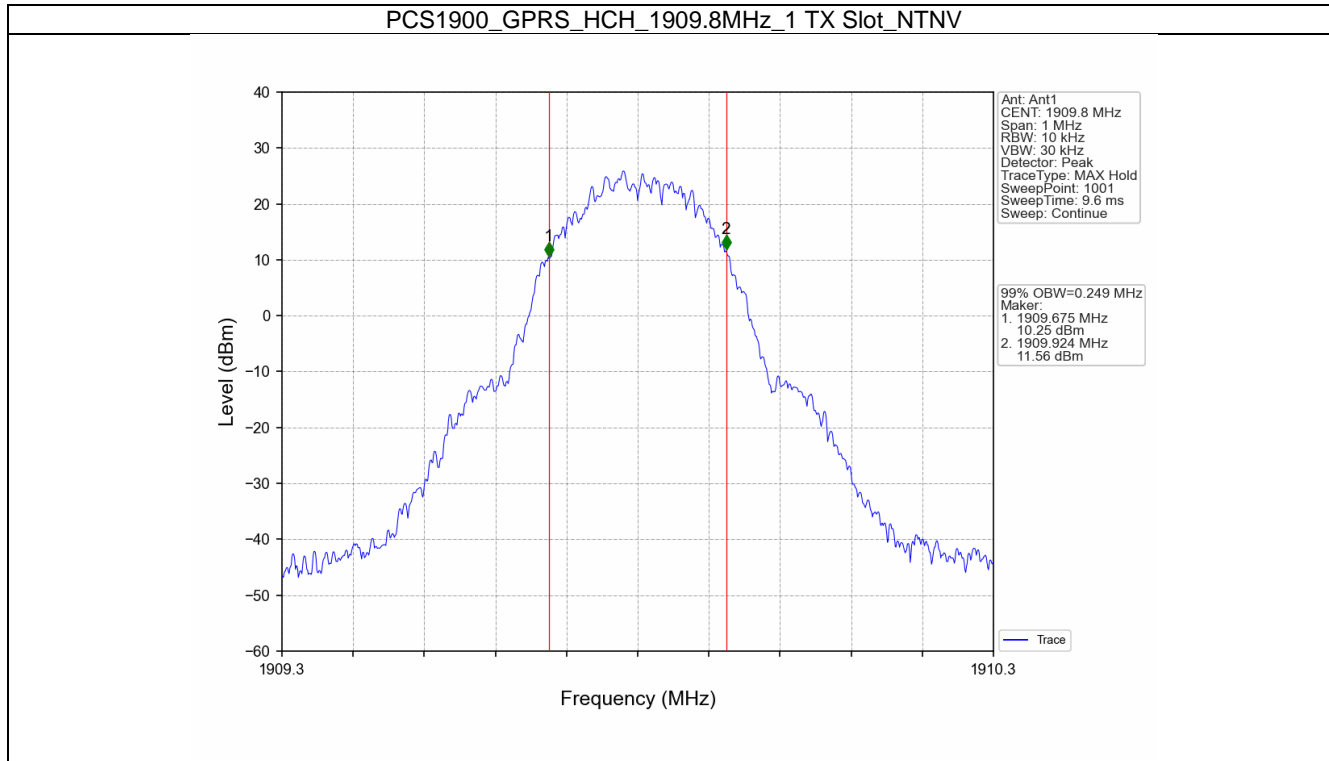


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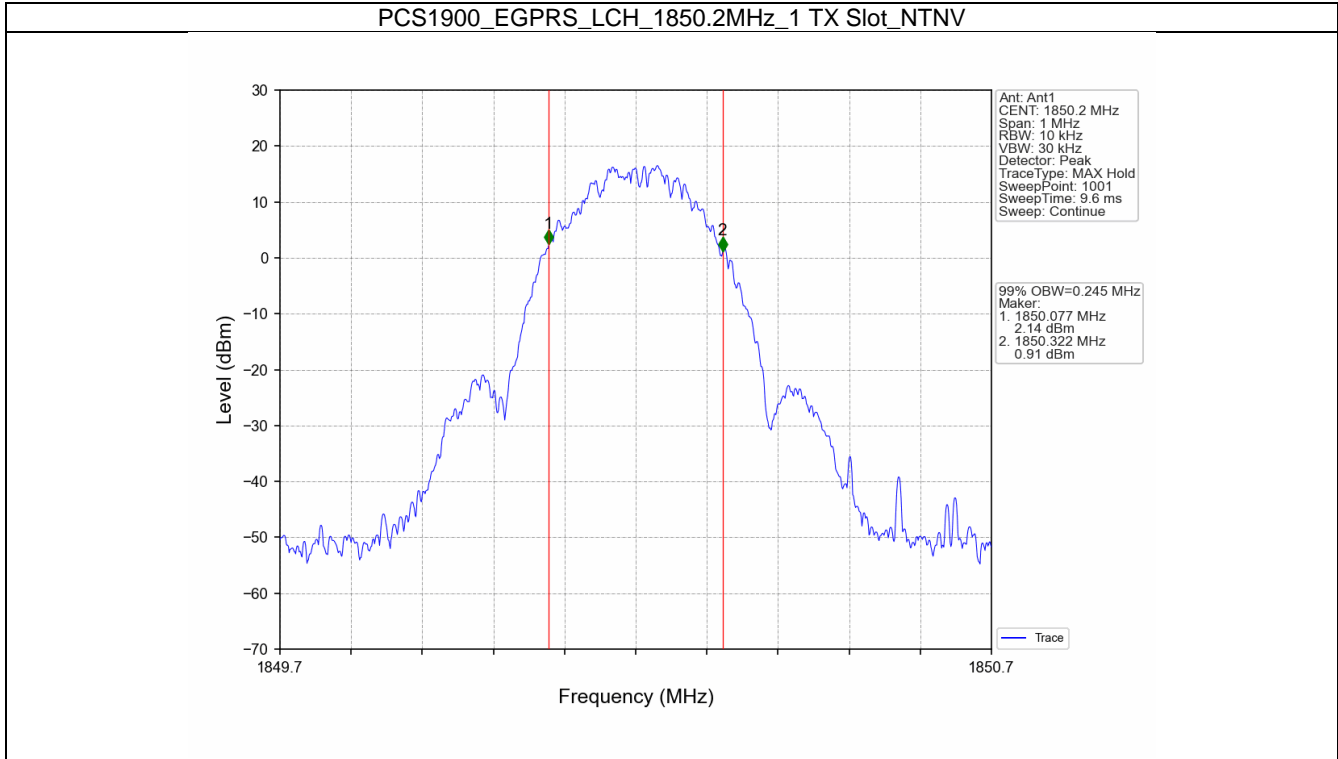
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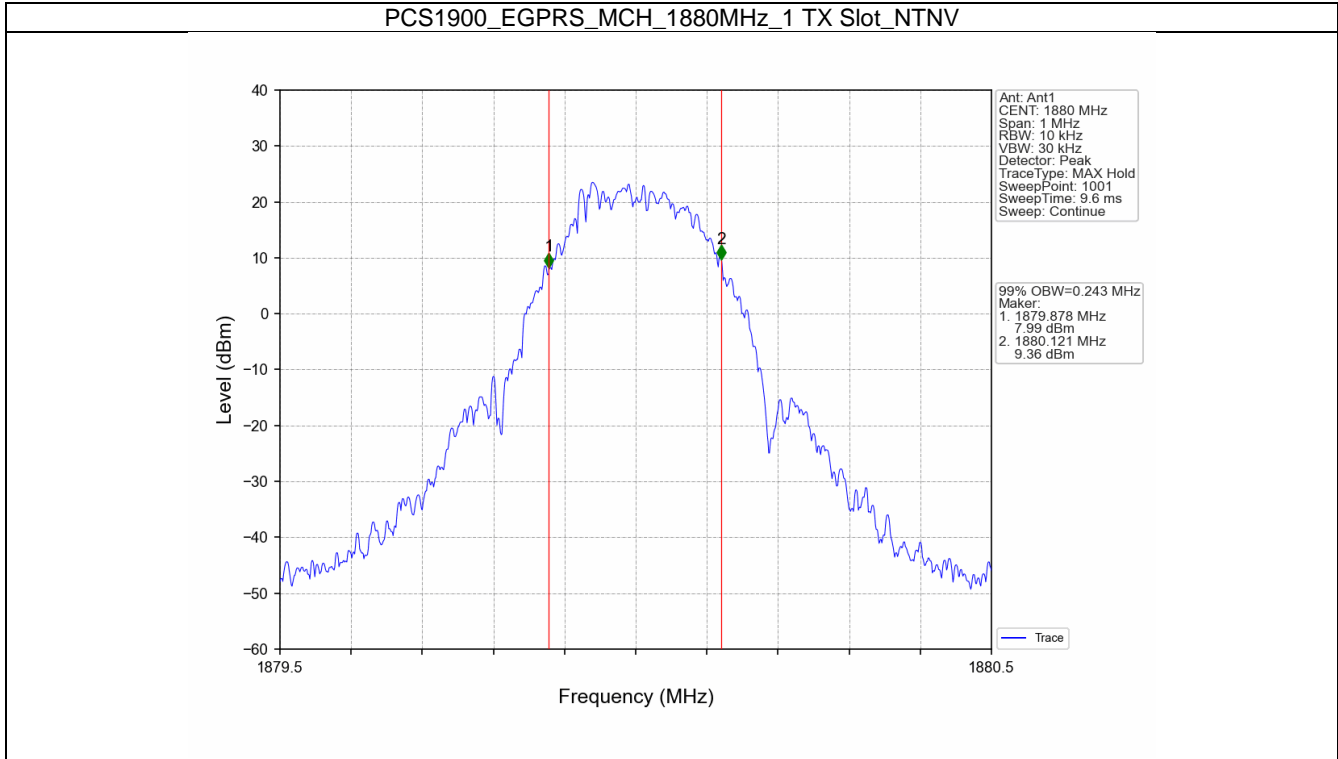
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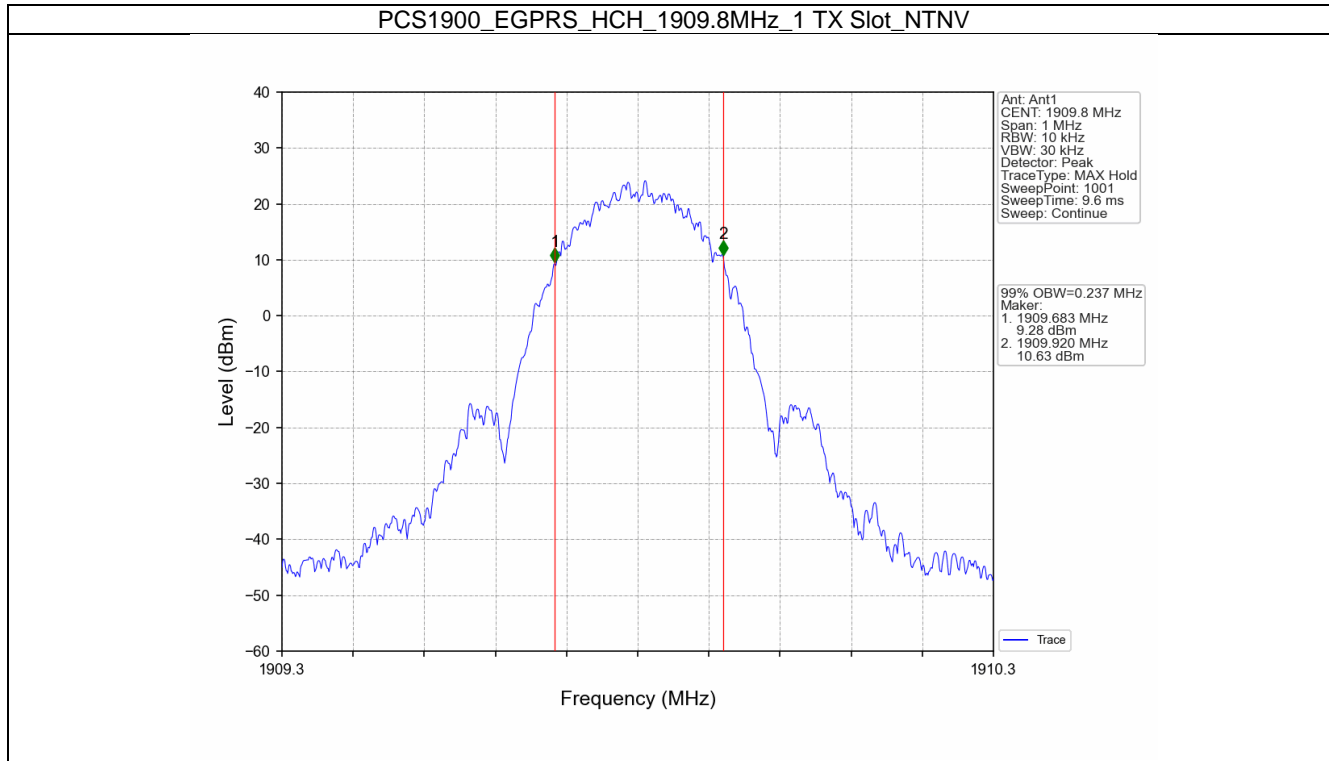


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3.2 PCS1900_XDB

3.2.1 Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	0.318	/	Pass
			1880	0.313	/	Pass
			1909.8	0.320	/	Pass
	GPRS	1 TX Slot	1850.2	0.311	/	Pass
			1880	0.320	/	Pass
			1909.8	0.309	/	Pass
	EGPRS	1 TX Slot	1850.2	0.314	/	Pass
			1880	0.318	/	Pass
			1909.8	0.298	/	Pass



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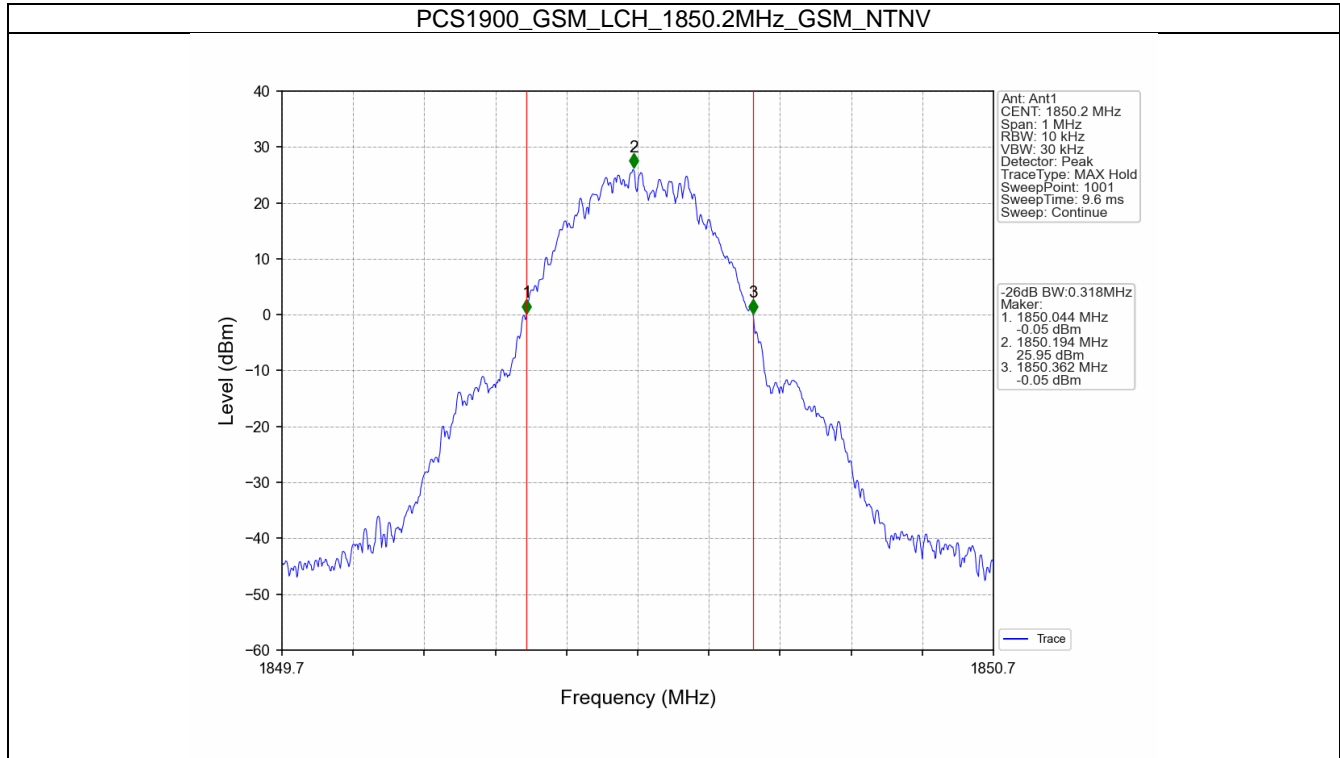
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3.2.2 Test Graph



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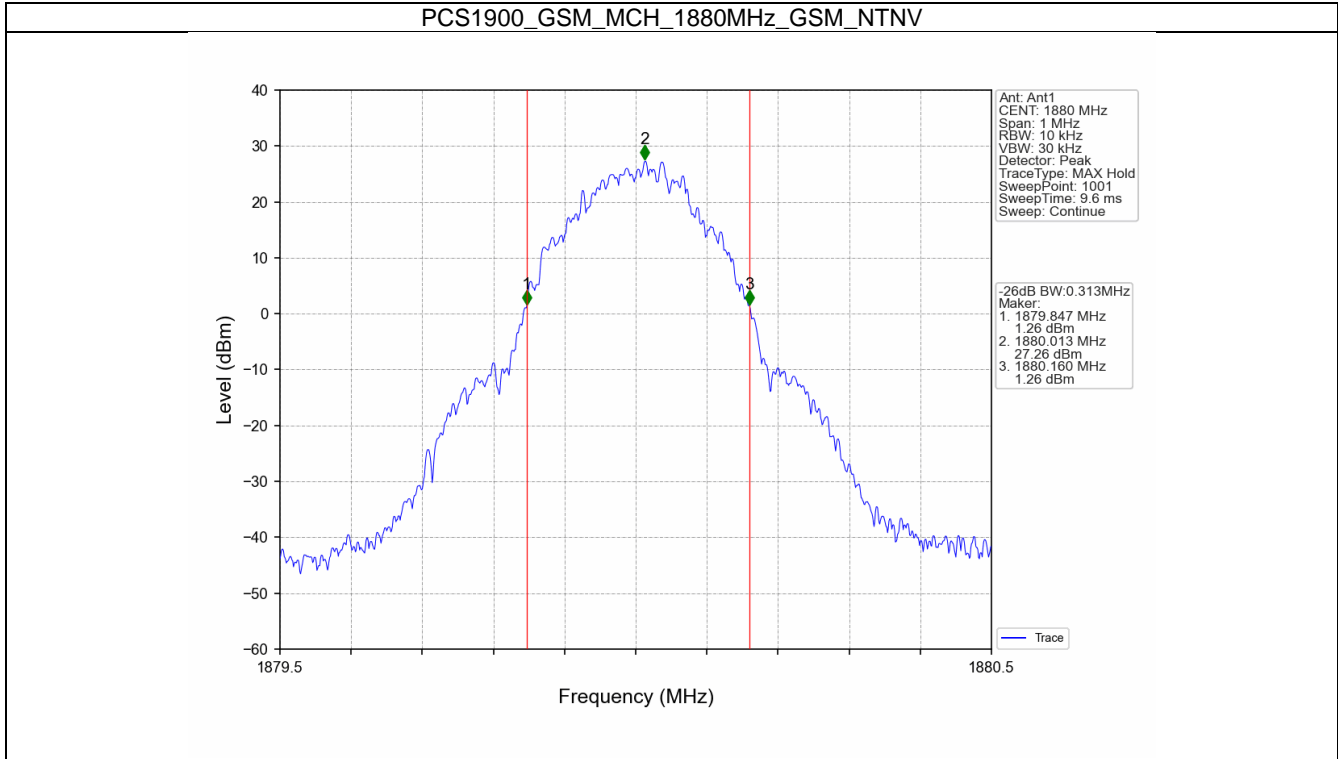
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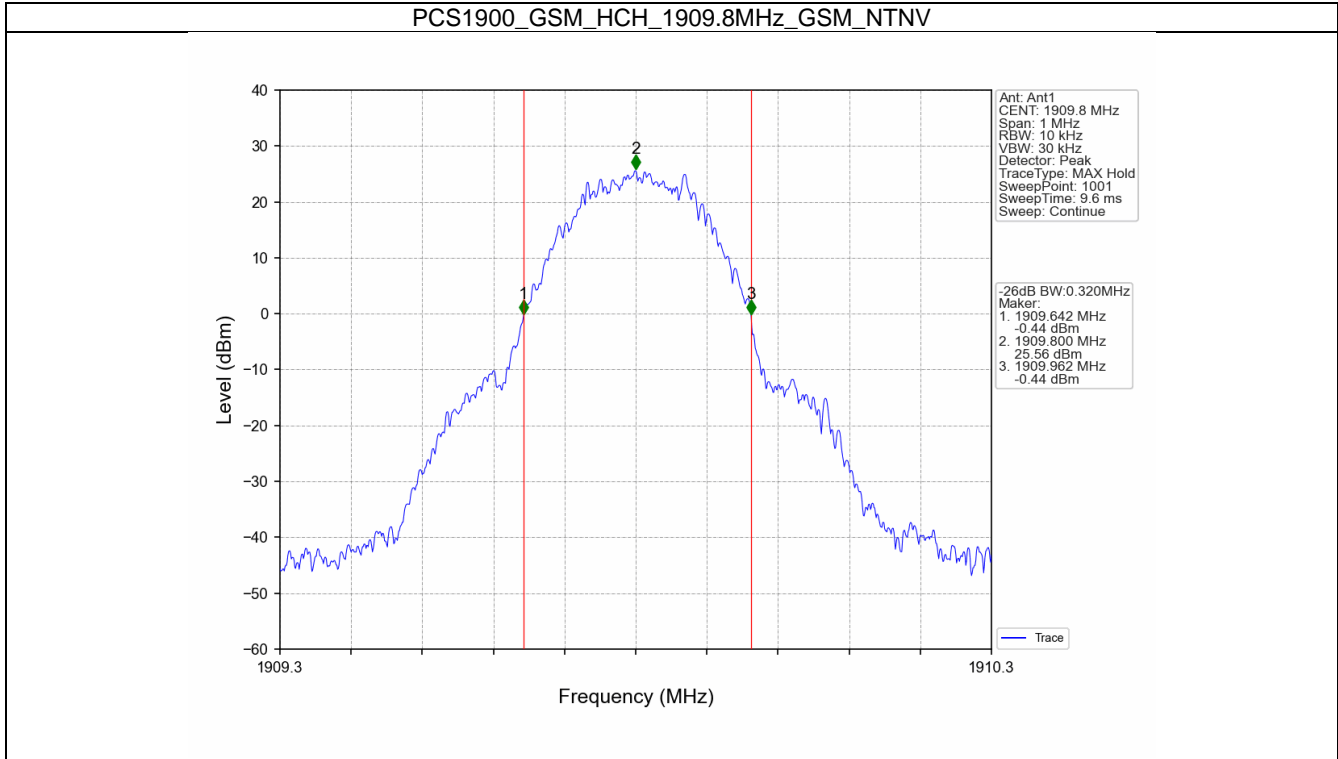
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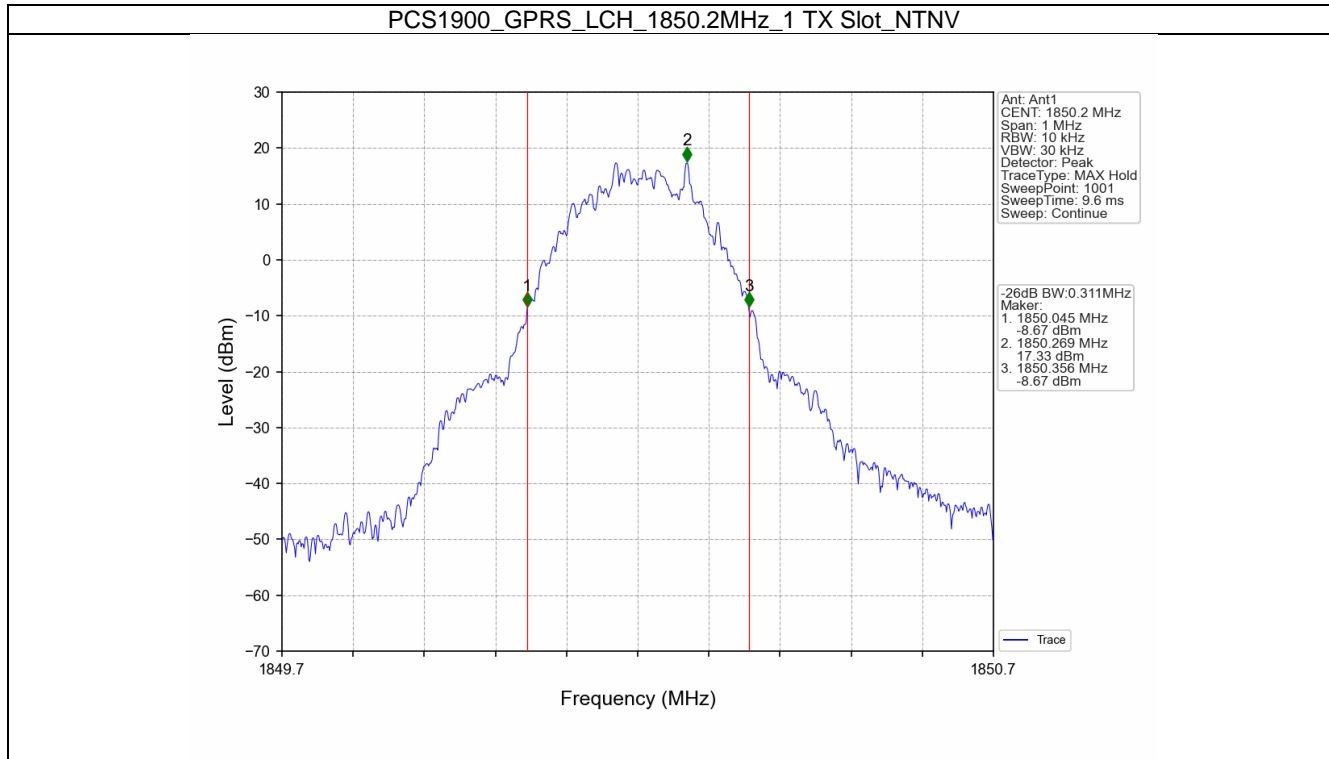


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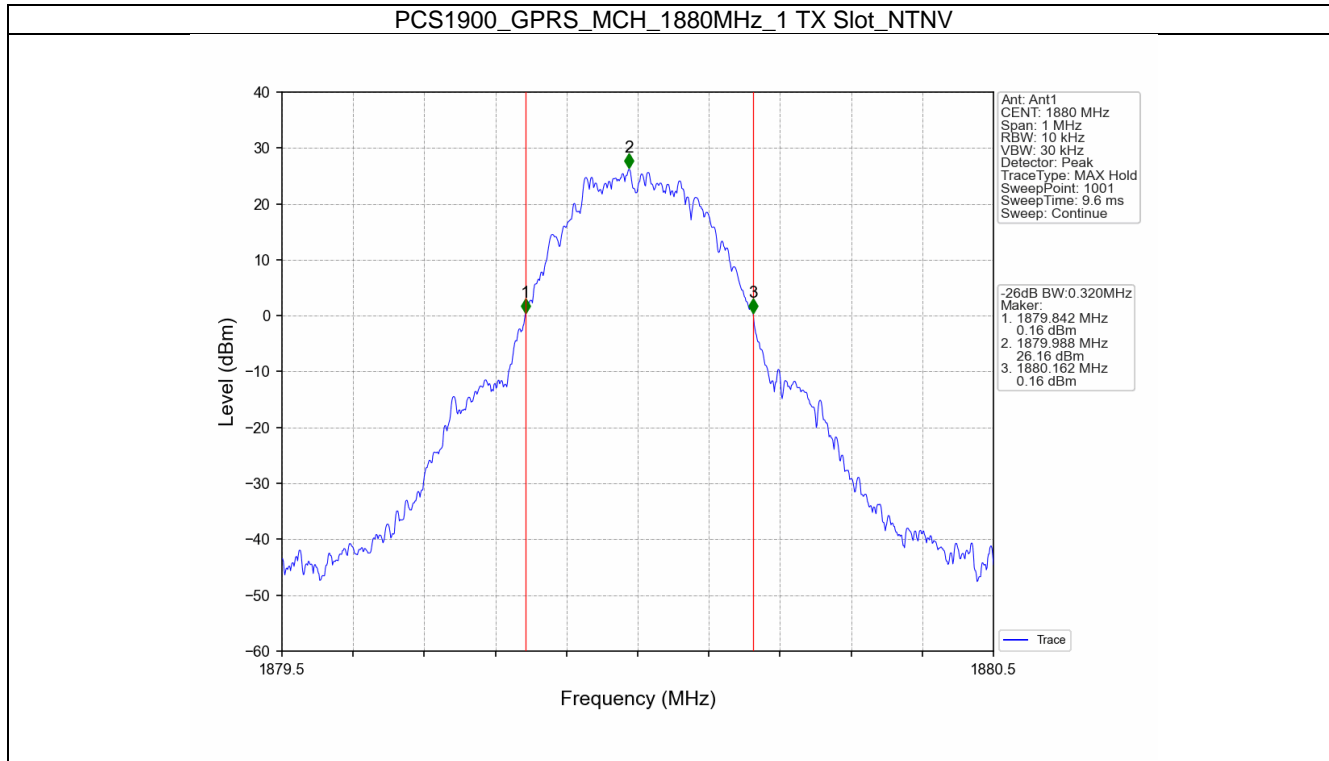


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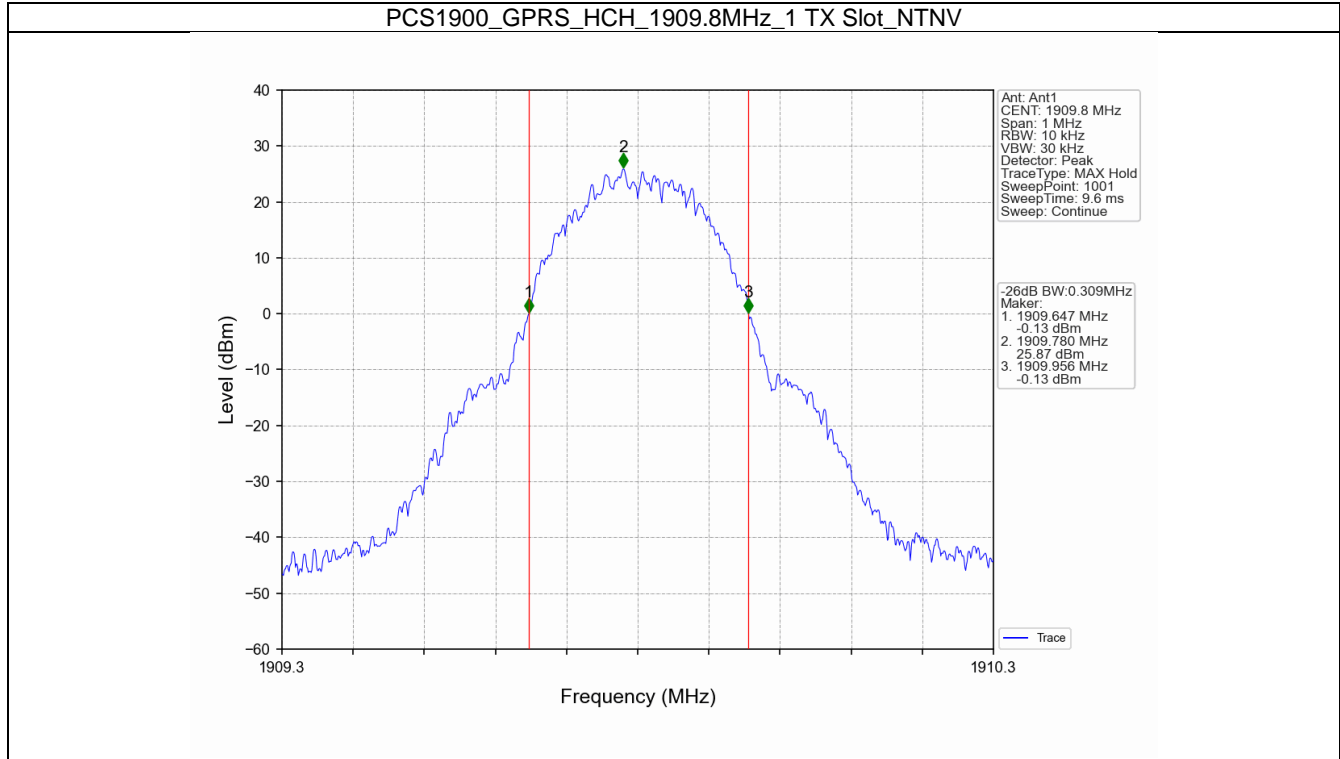
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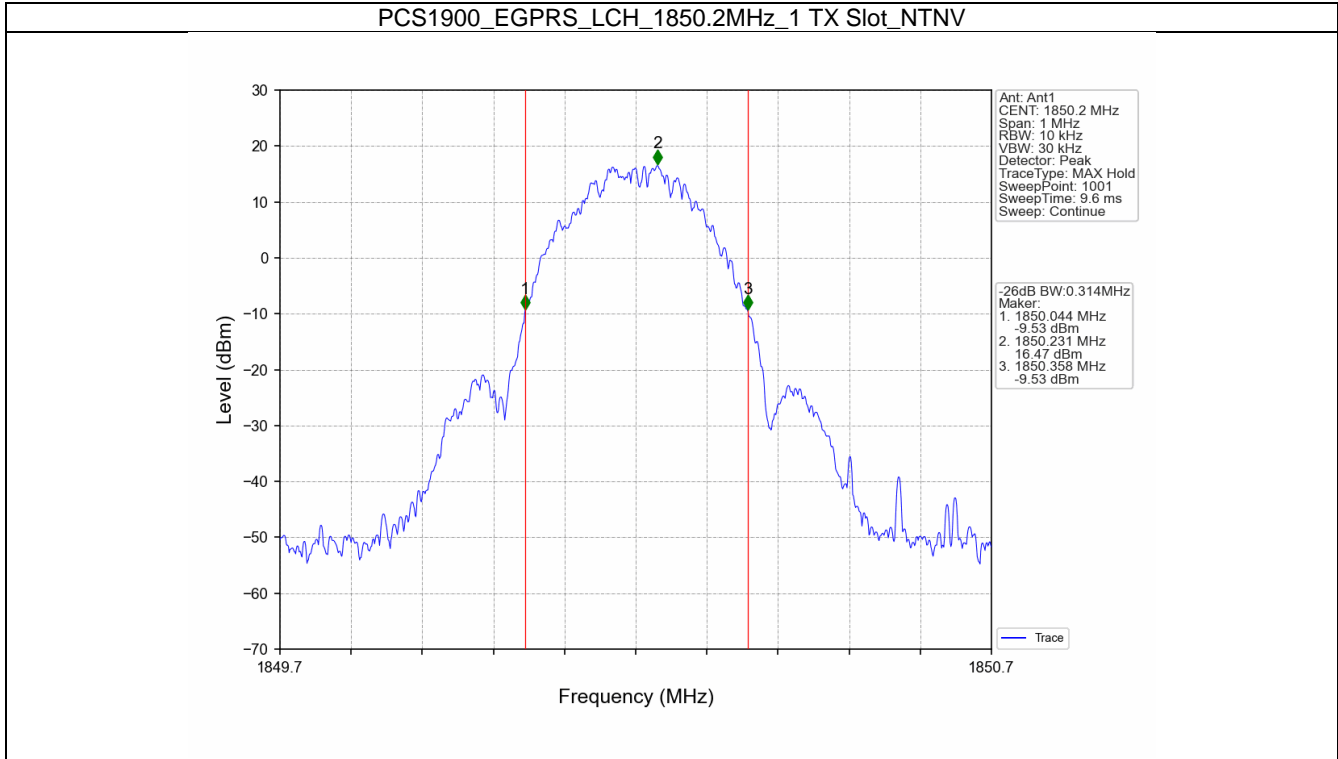
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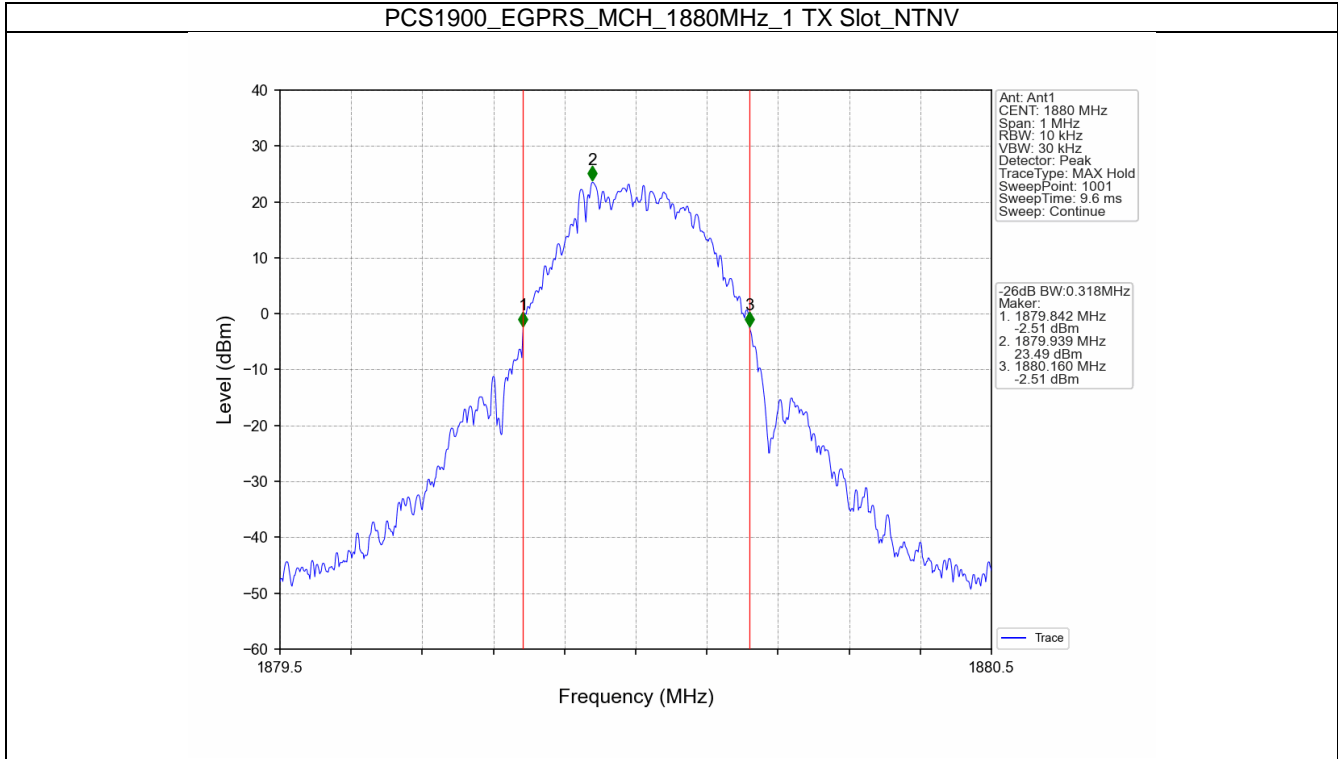
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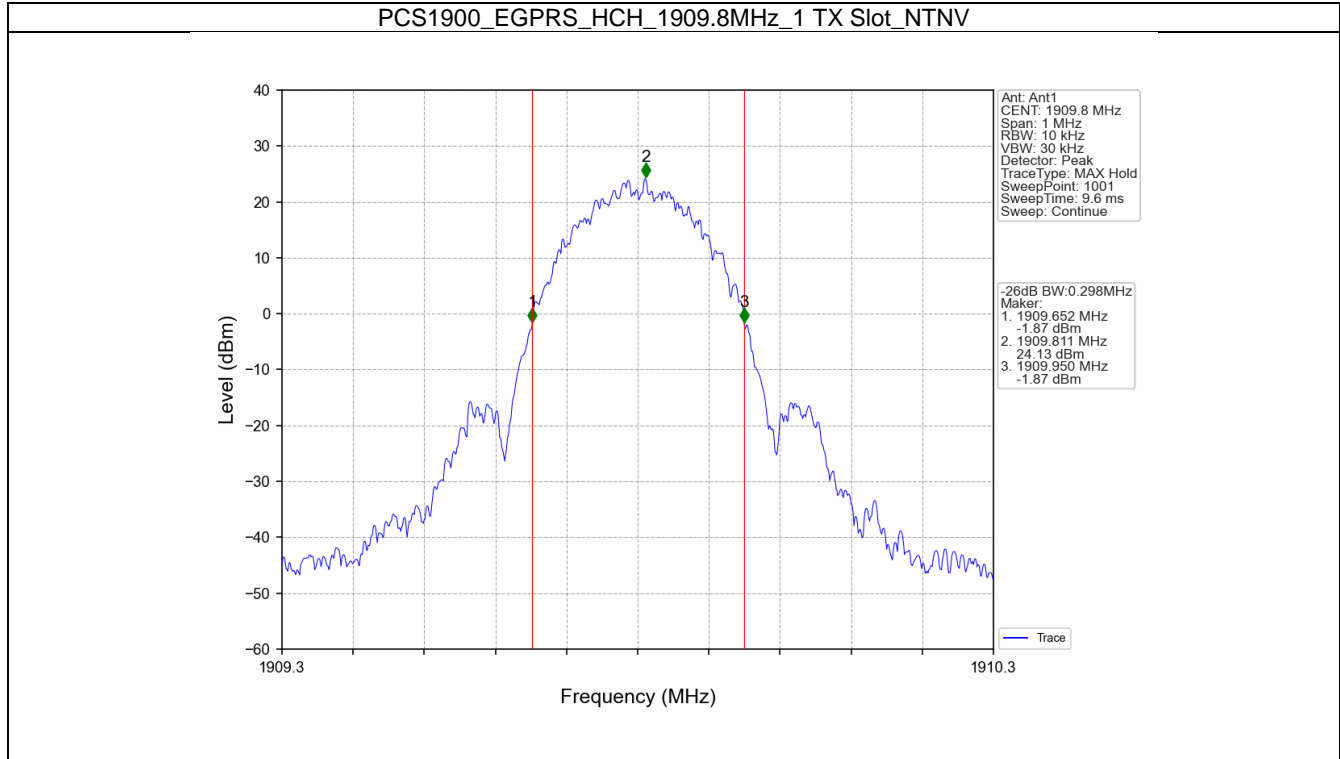
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4. Peak-Average Ratio

4.1 PCS1900

4.1.1 Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	9.44	<=13	Pass
			1880	9.44	<=13	Pass
			1909.8	9.20	<=13	Pass
	GPRS	4 TX Slots	1850.2	4.64	<=13	Pass
			1880	3.58	<=13	Pass
			1909.8	3.63	<=13	Pass
	EGPRS	4 TX Slots	1850.2	8.85	<=13	Pass
			1880	8.22	<=13	Pass
			1909.8	8.69	<=13	Pass



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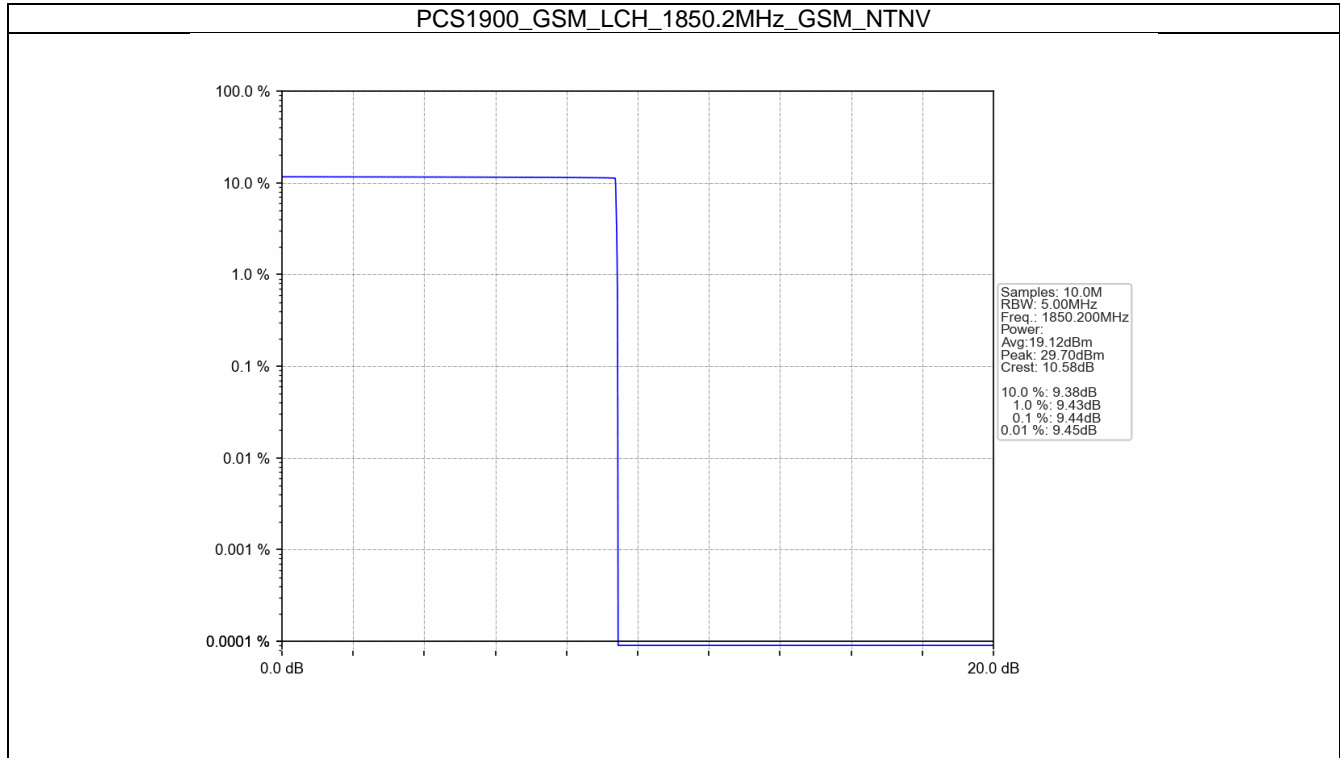
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4.1.2 Test Graph



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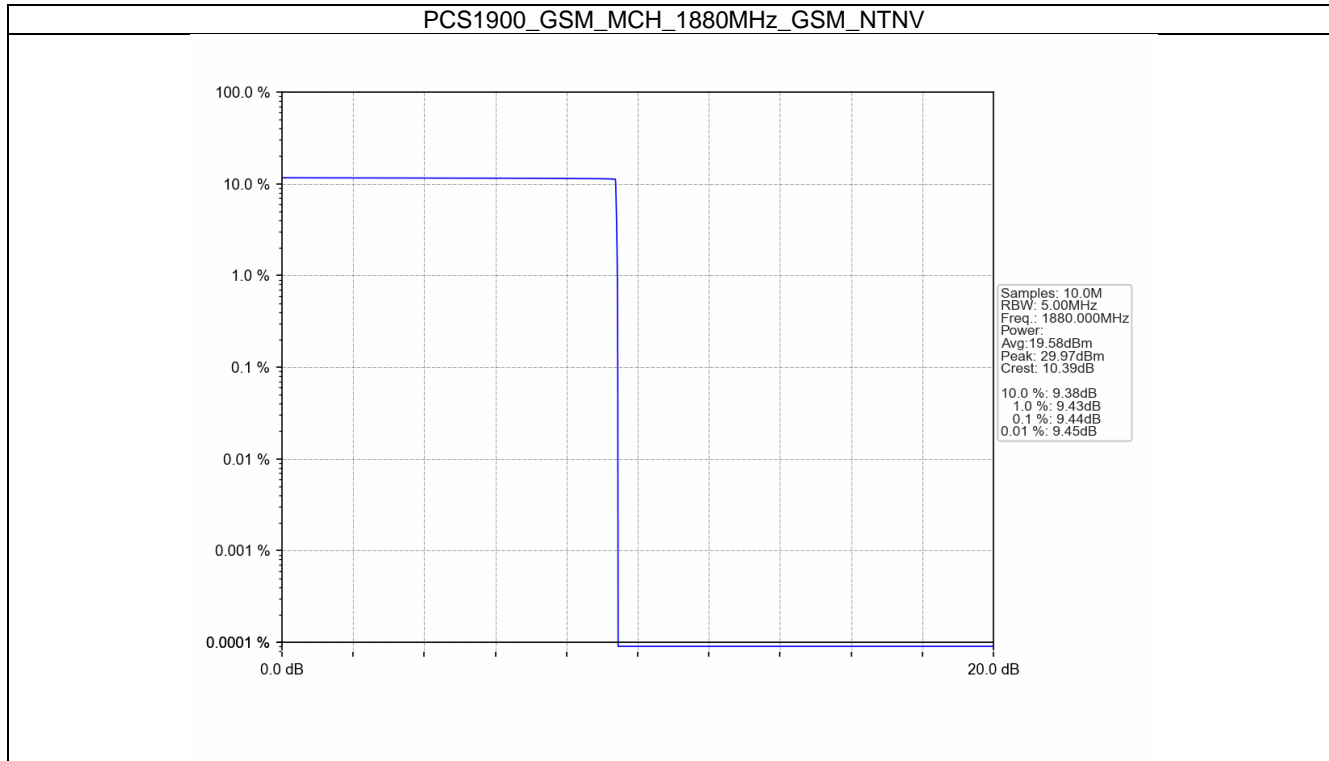


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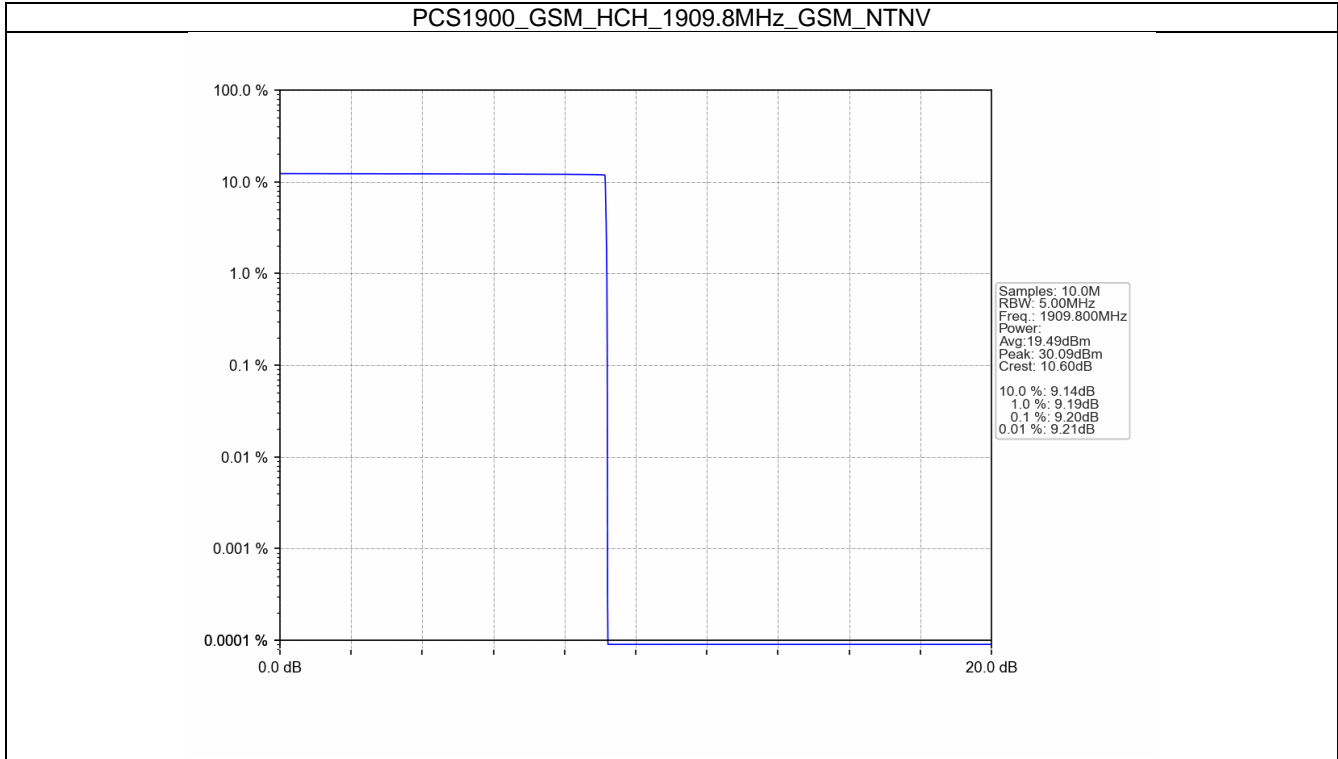
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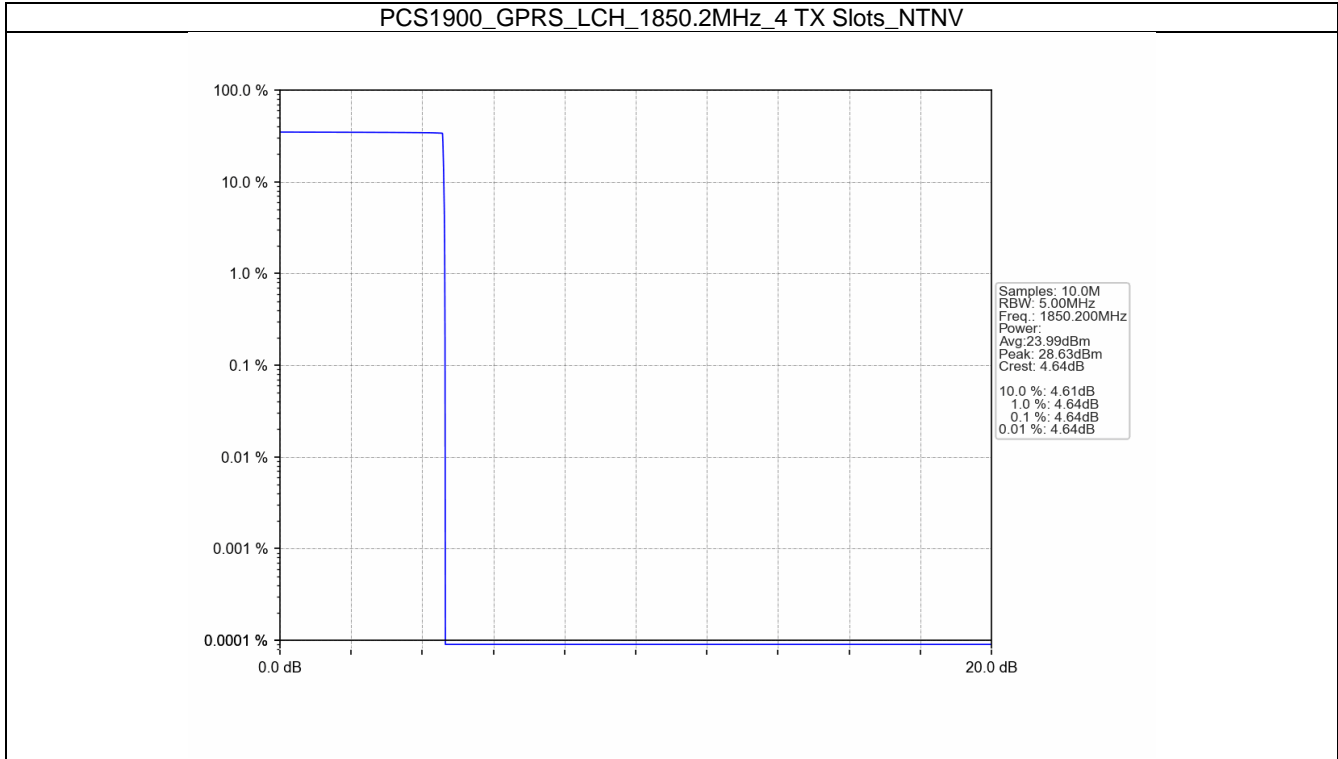
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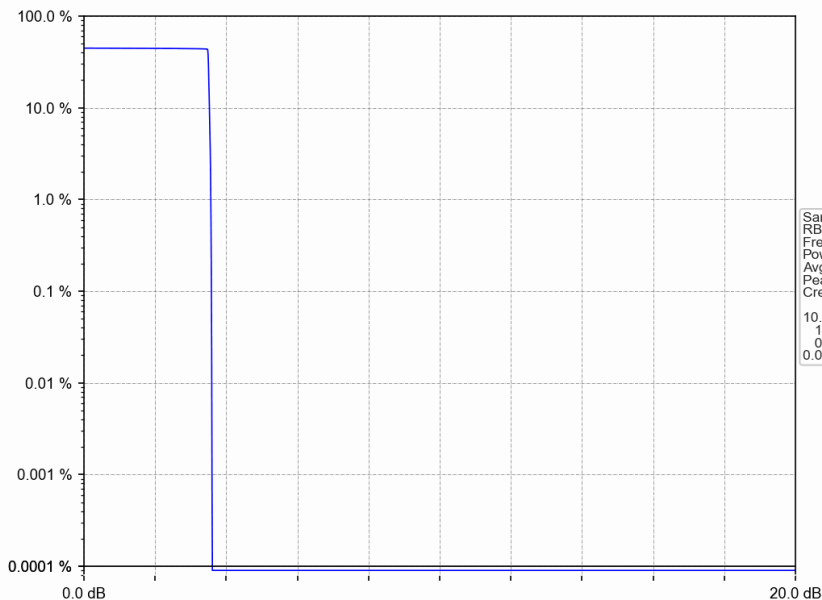
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PCS1900_GPRS_MCH_1880MHz_4 TX Slots_NTNV



Samples: 10.0M
 RBW: 5.00MHz
 Freq.: 1880.000MHz
 Power:
 Avg: 20.57dBm
 Peak: 29.84dBm
 Crest: 9.27dB



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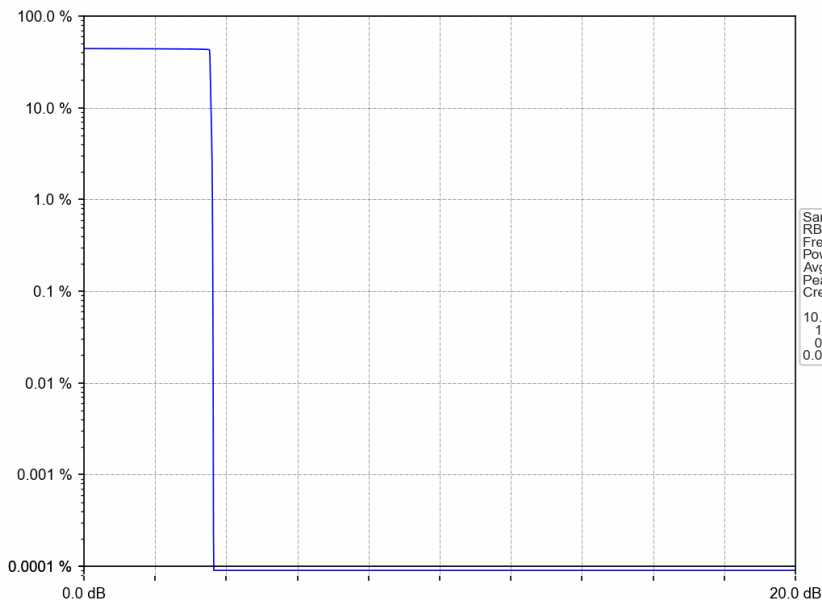
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PCS1900_GPRS_HCH_1909.8MHz_4 TX Slots_NTNV



Samples: 10.0M
 RBW: 5.00MHz
 Freq.: 1909.800MHz
 Power:
 Avg: 20.22dBm
 Peak: 24.57dBm
 Crest: 4.35dB



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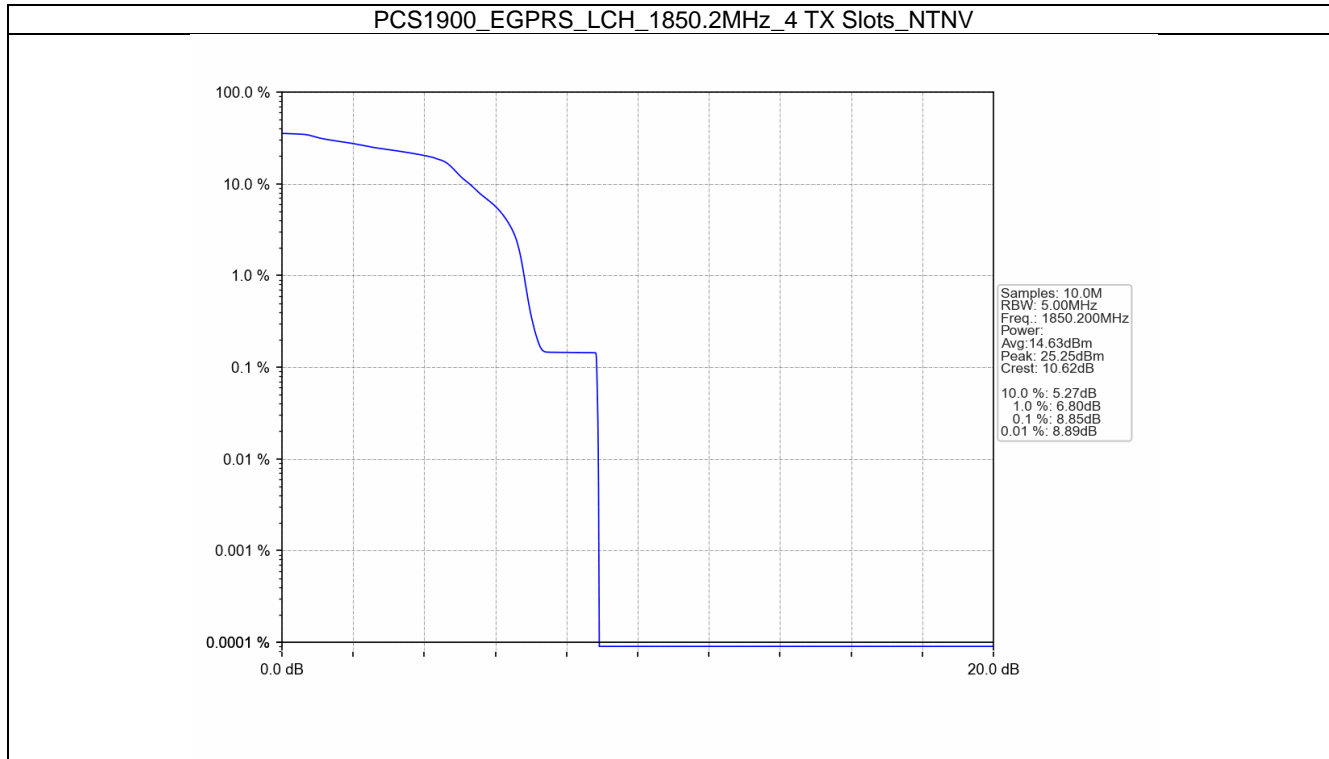


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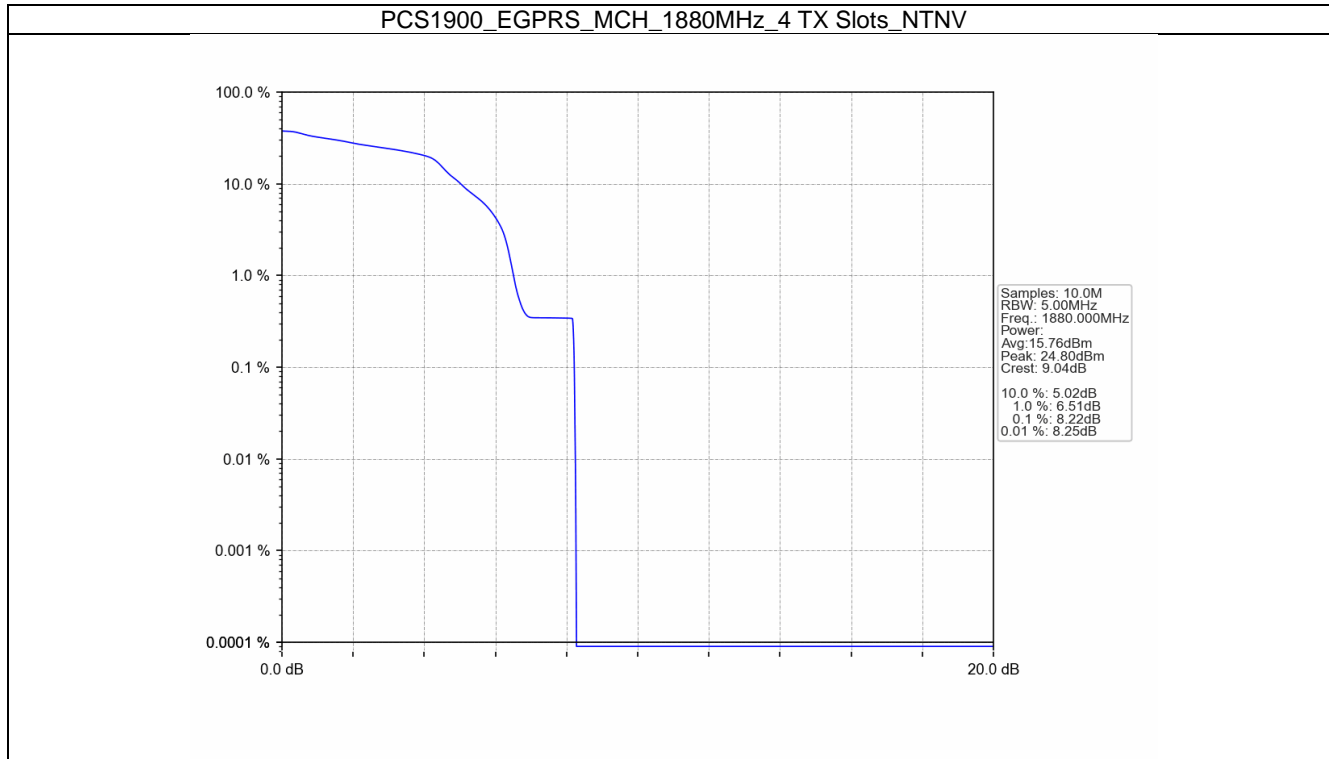


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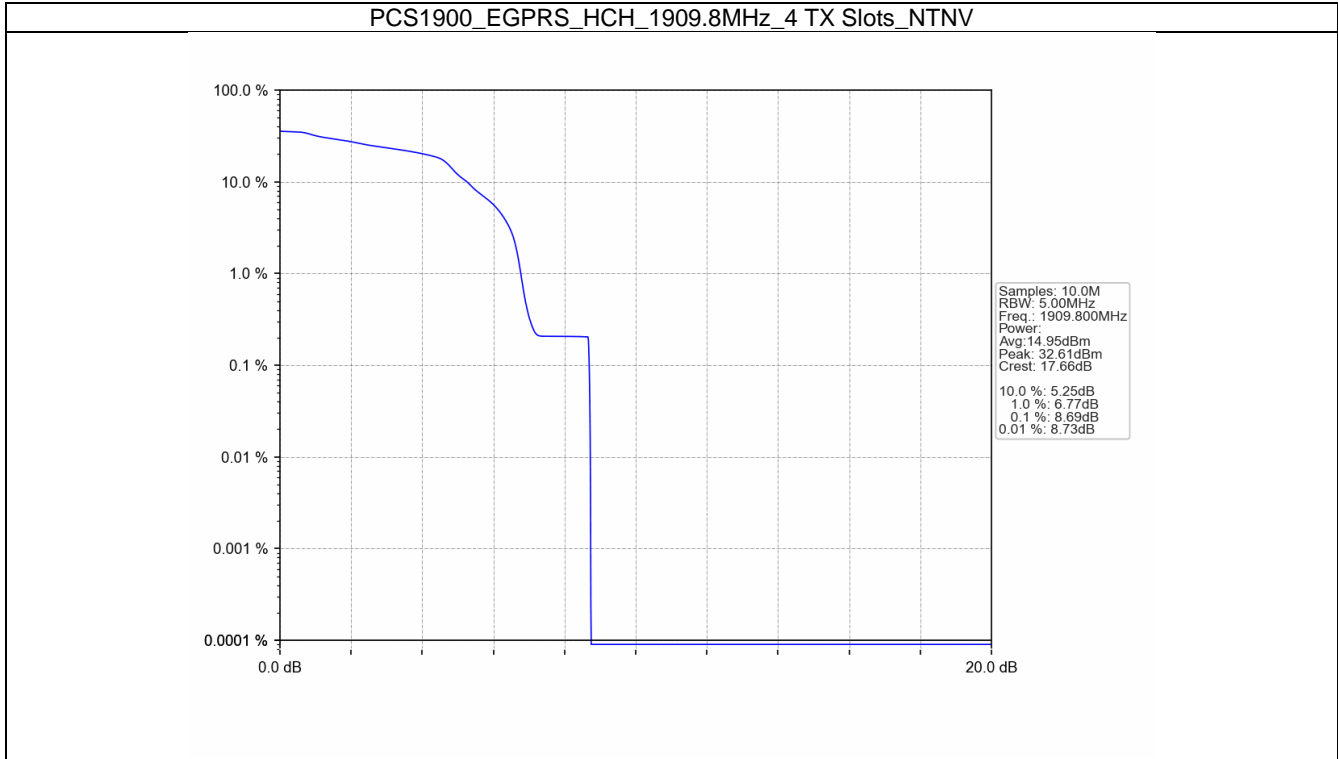
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5. Spurious Emission & Band Edges

5.1 PCS1900

5.1.1 Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	Refer To Test Graph		Pass
			1880	Refer To Test Graph		Pass
			1909.8	Refer To Test Graph		Pass
	GPRS	1 TX Slot	1850.2	Refer To Test Graph		Pass
			1880	Refer To Test Graph		Pass
			1909.8	Refer To Test Graph		Pass
	EGPRS	1 TX Slot	1850.2	Refer To Test Graph		Pass
			1880	Refer To Test Graph		Pass
			1909.8	Refer To Test Graph		Pass
			1909.8	Refer To Test Graph		Pass



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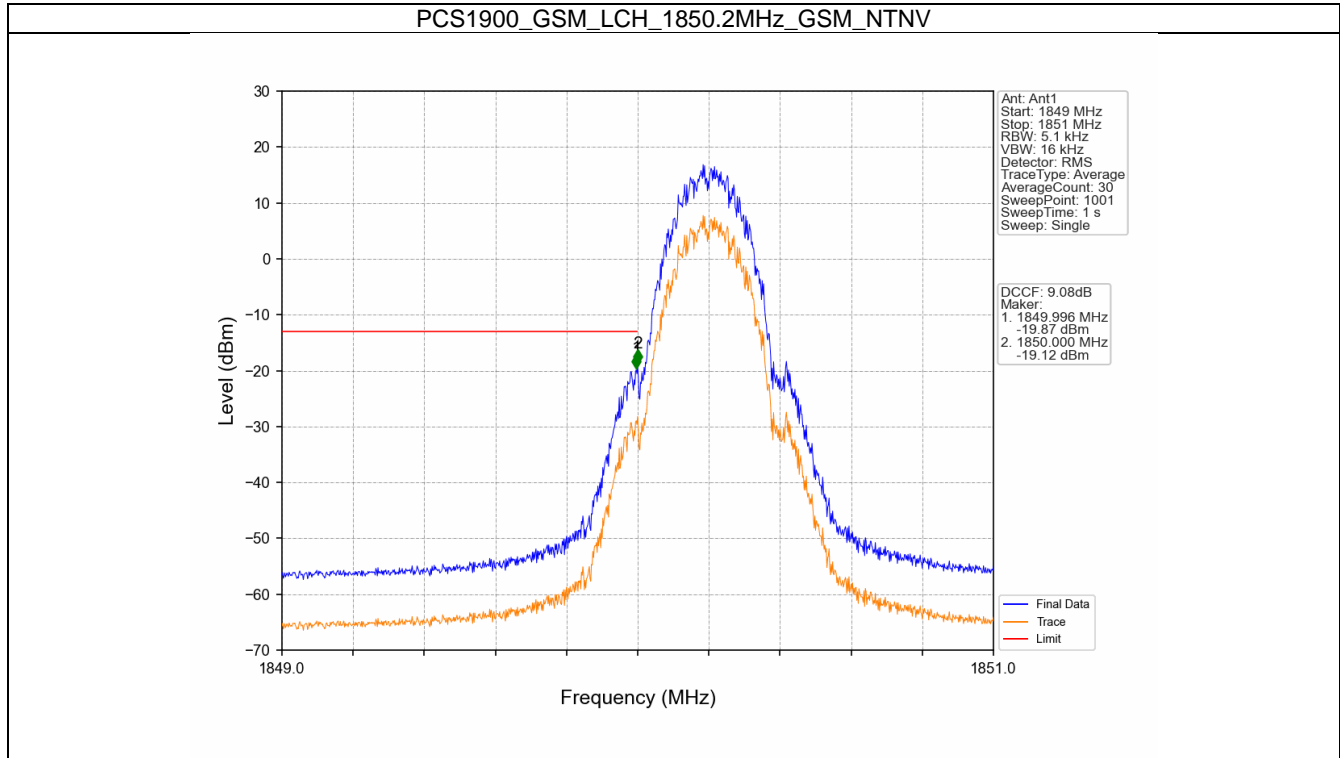
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5.1.2 Test Graph



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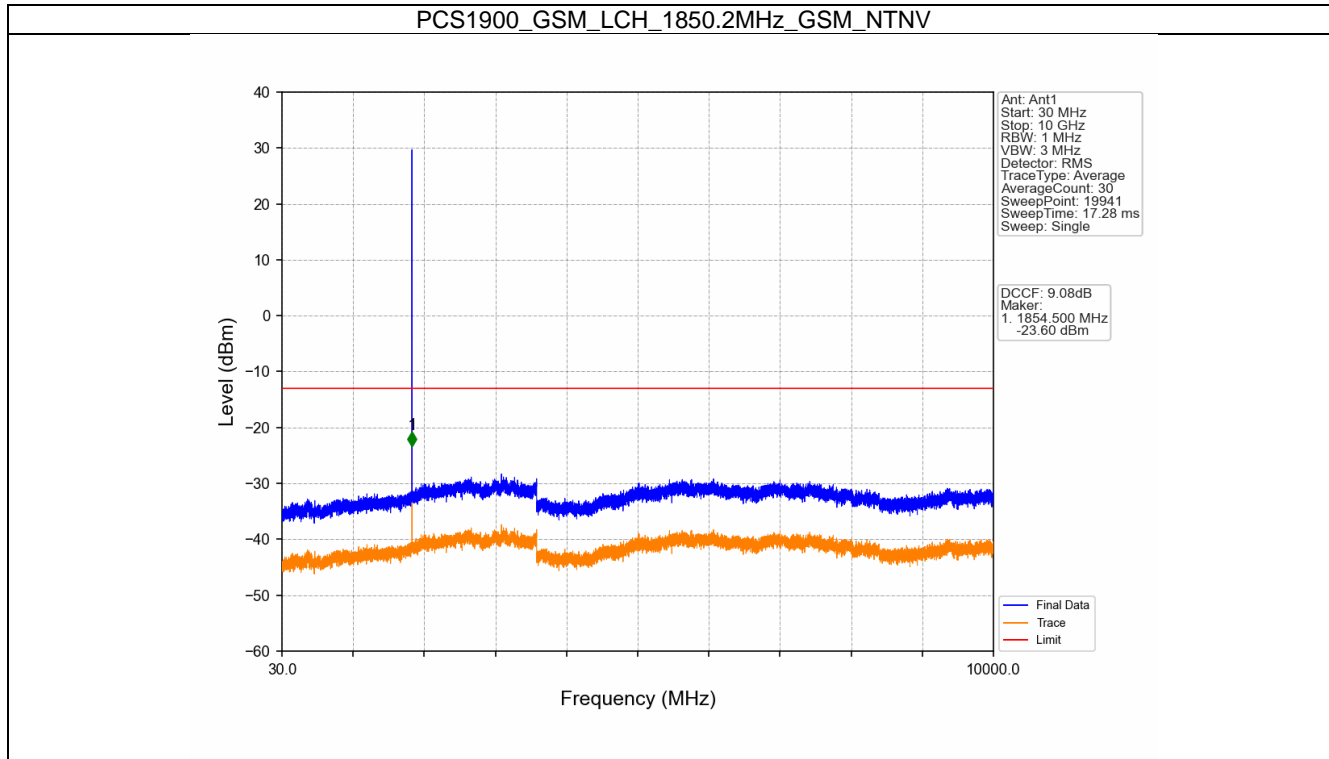


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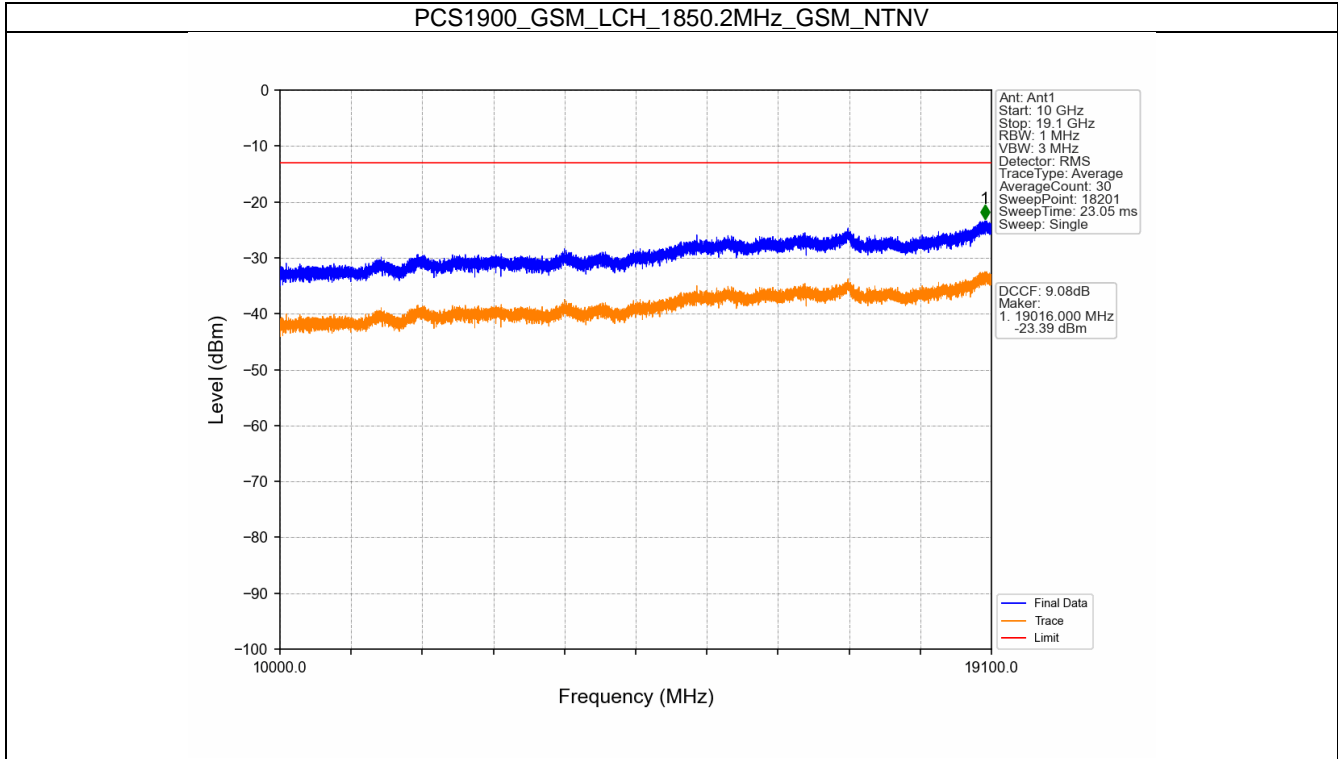
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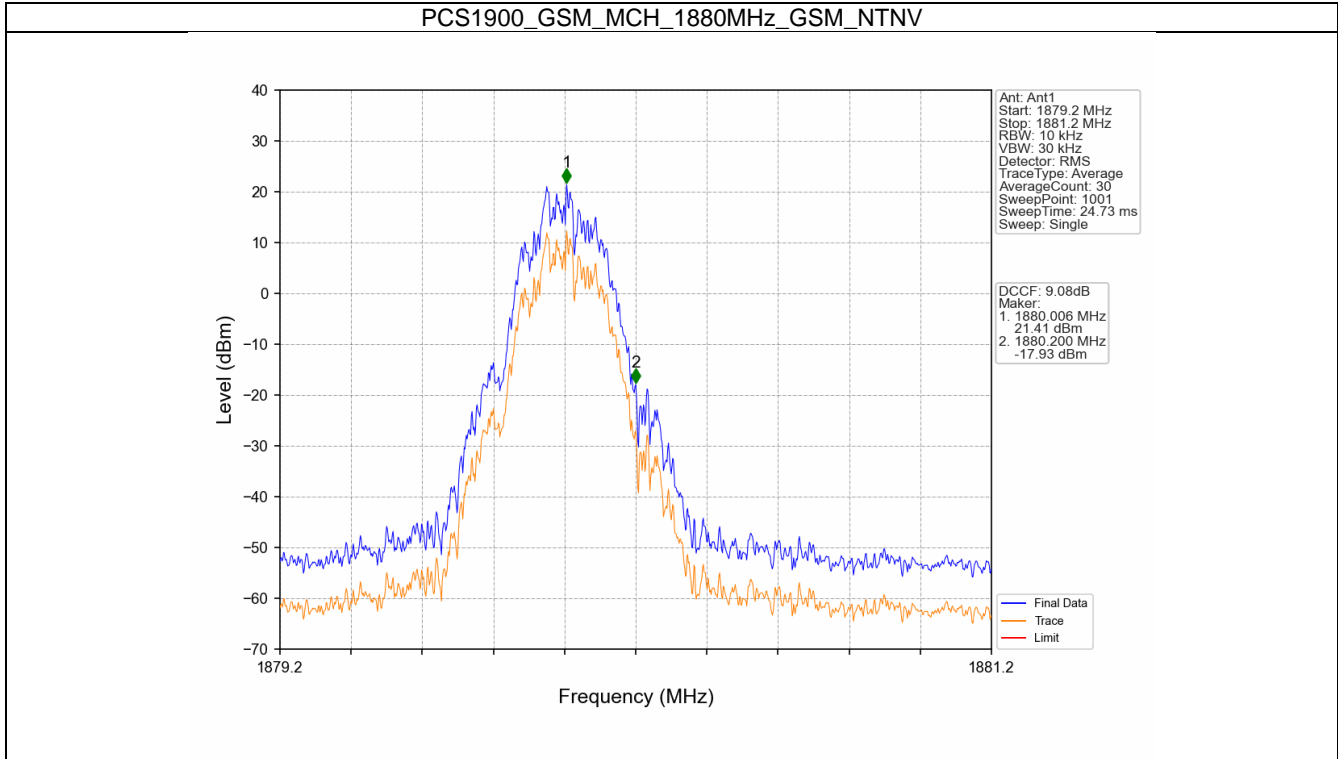
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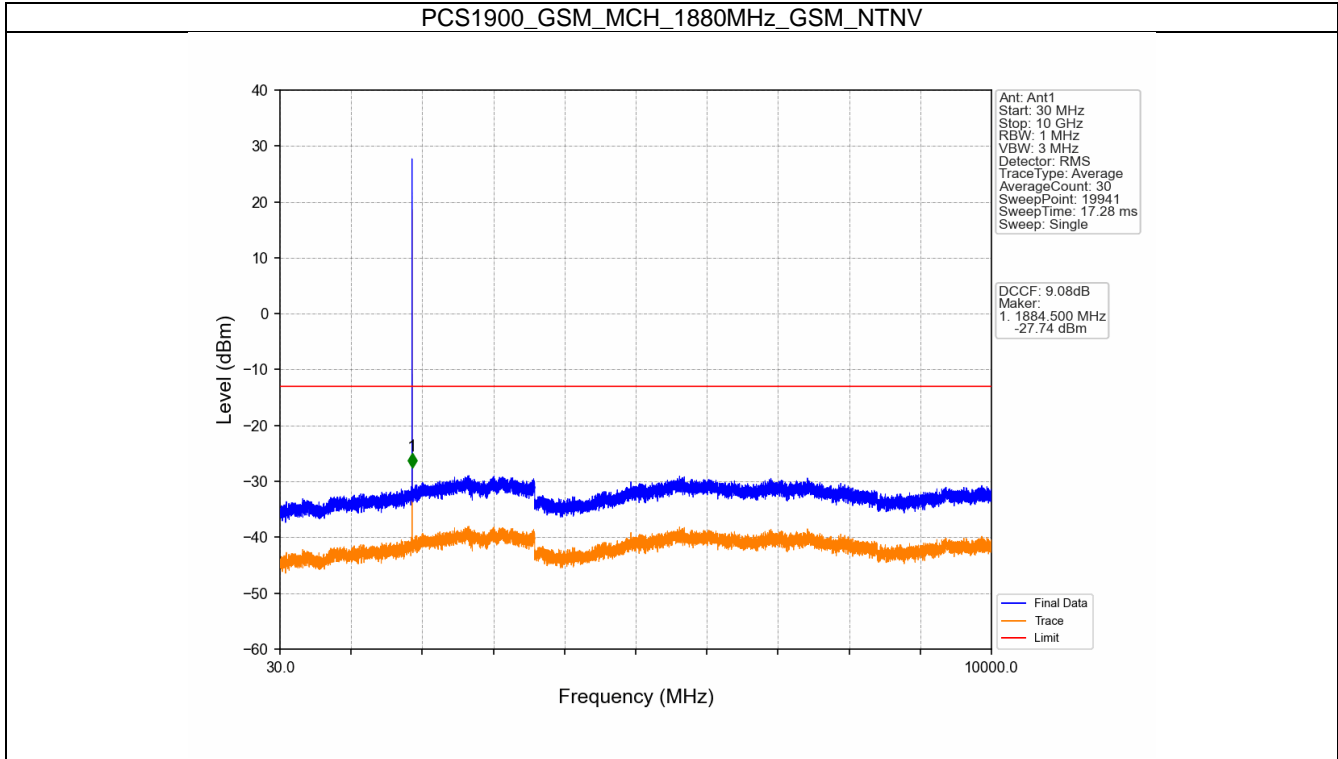
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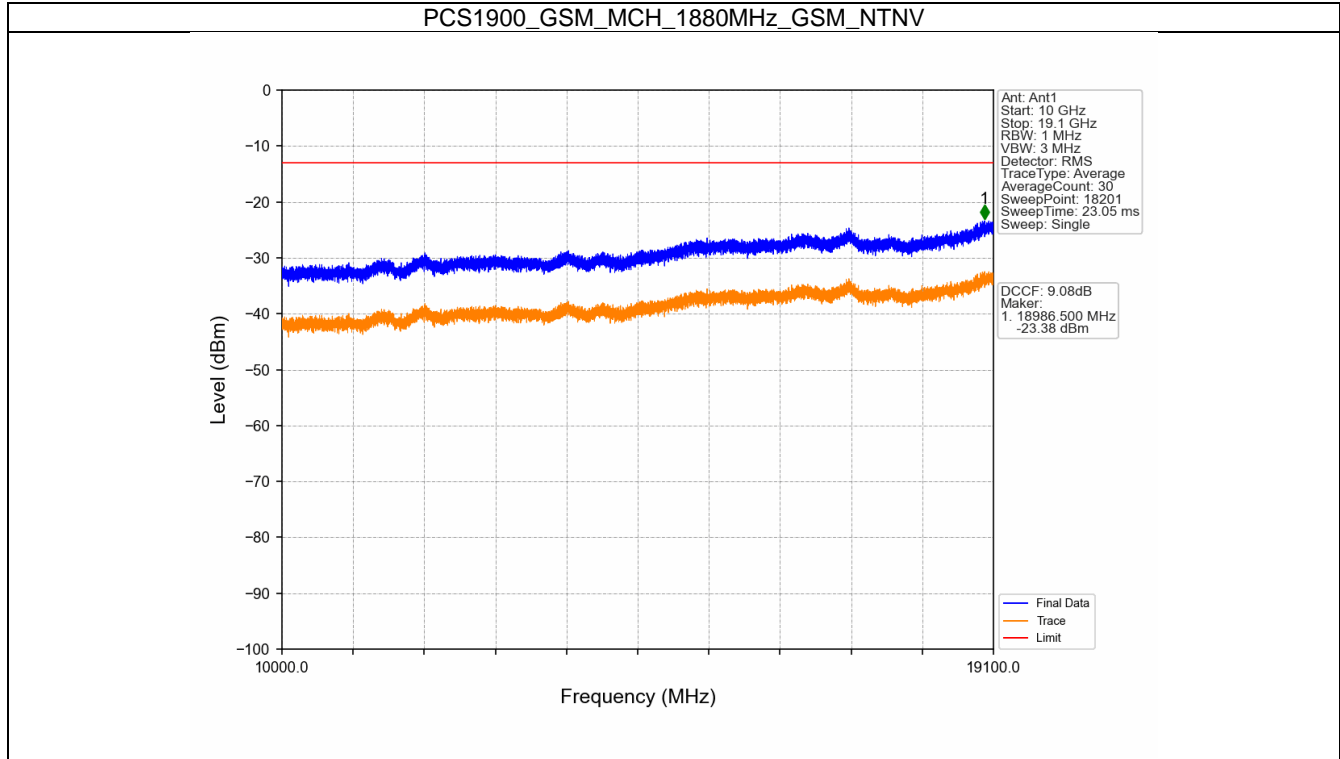
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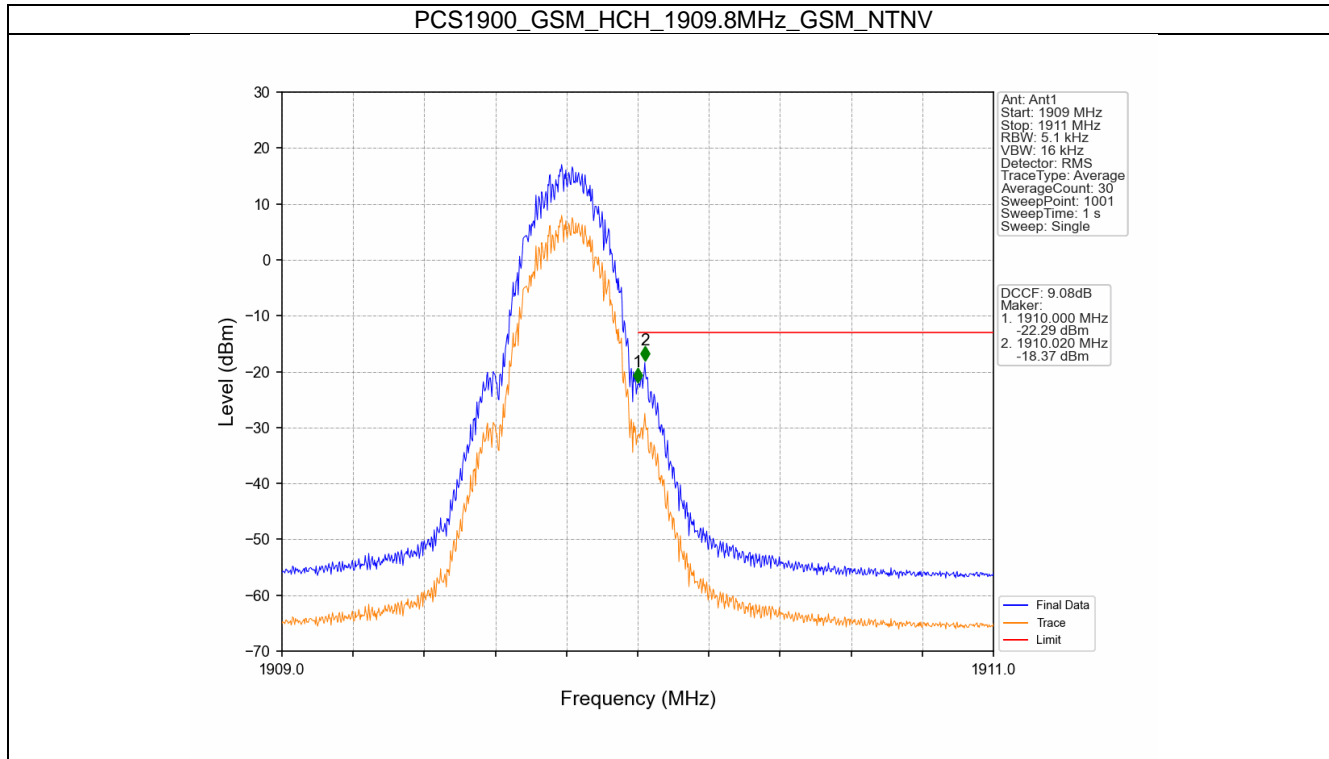


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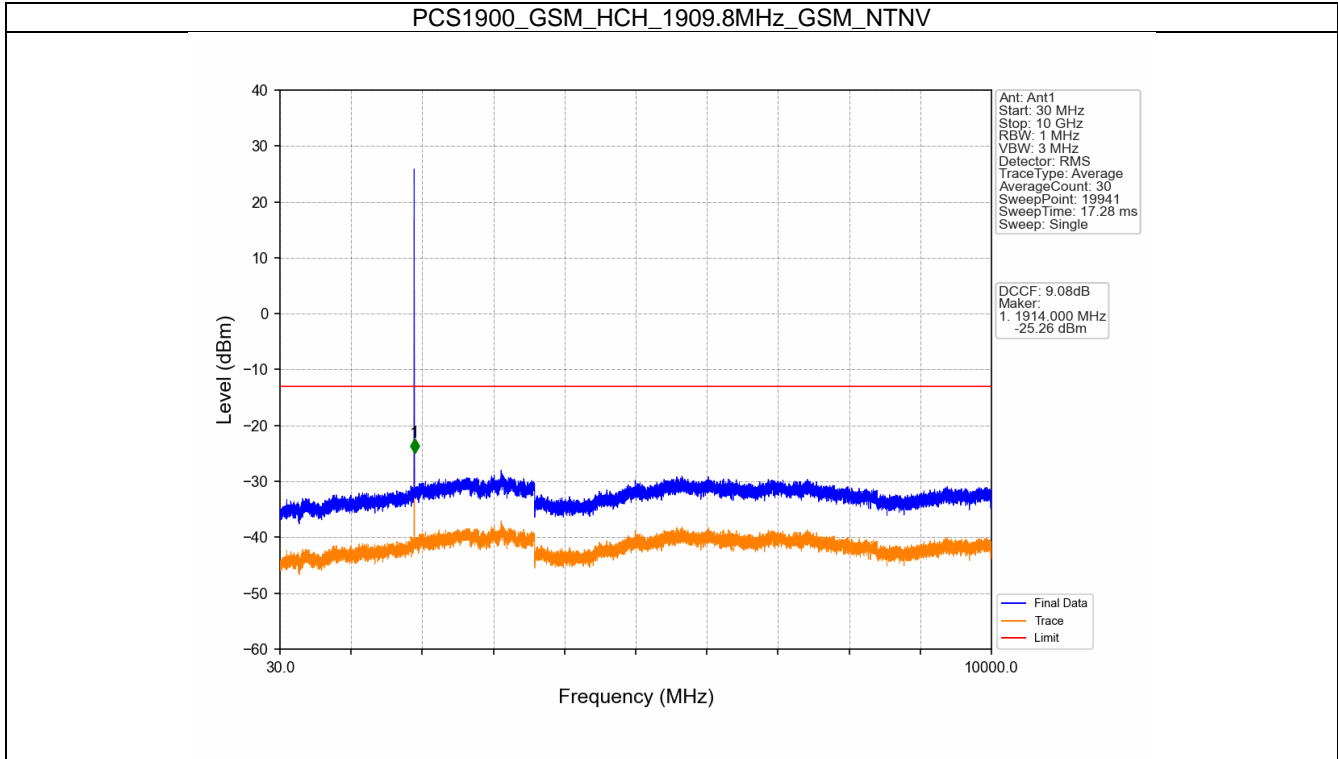
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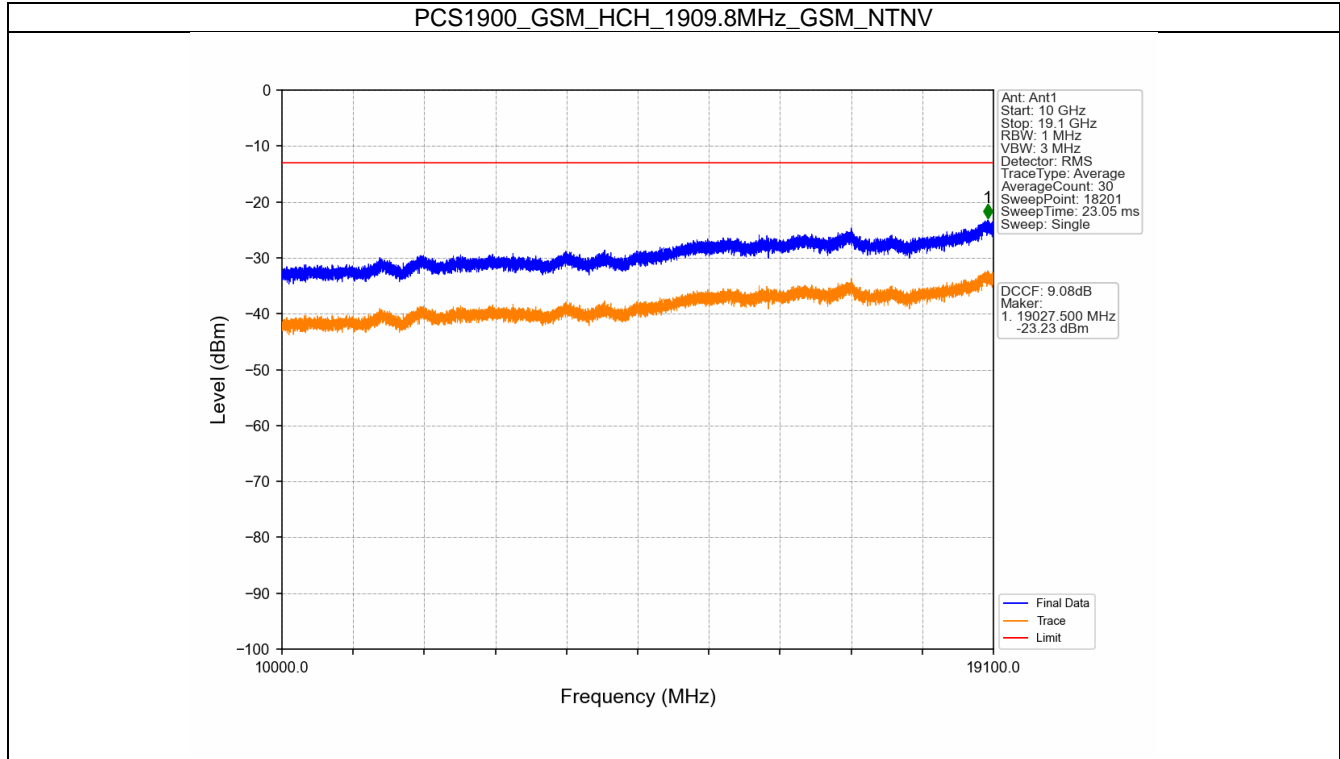
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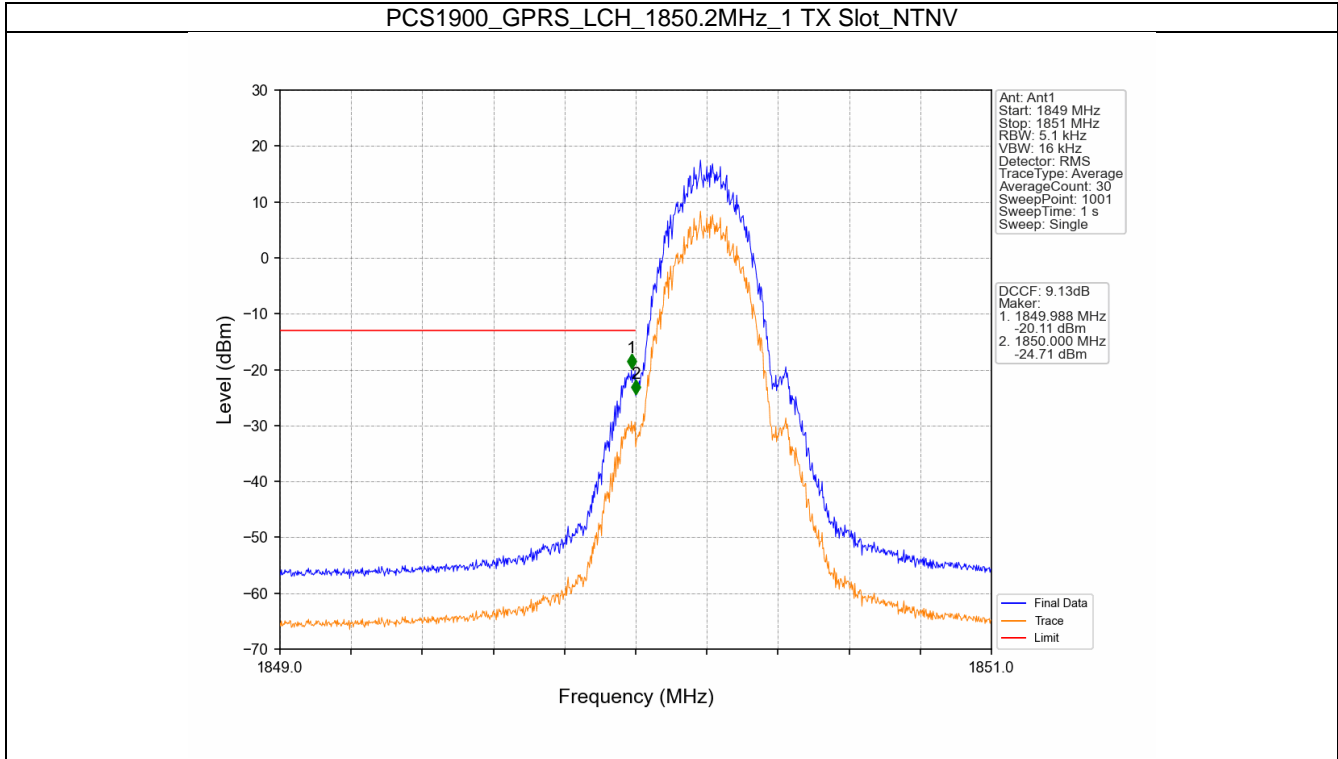
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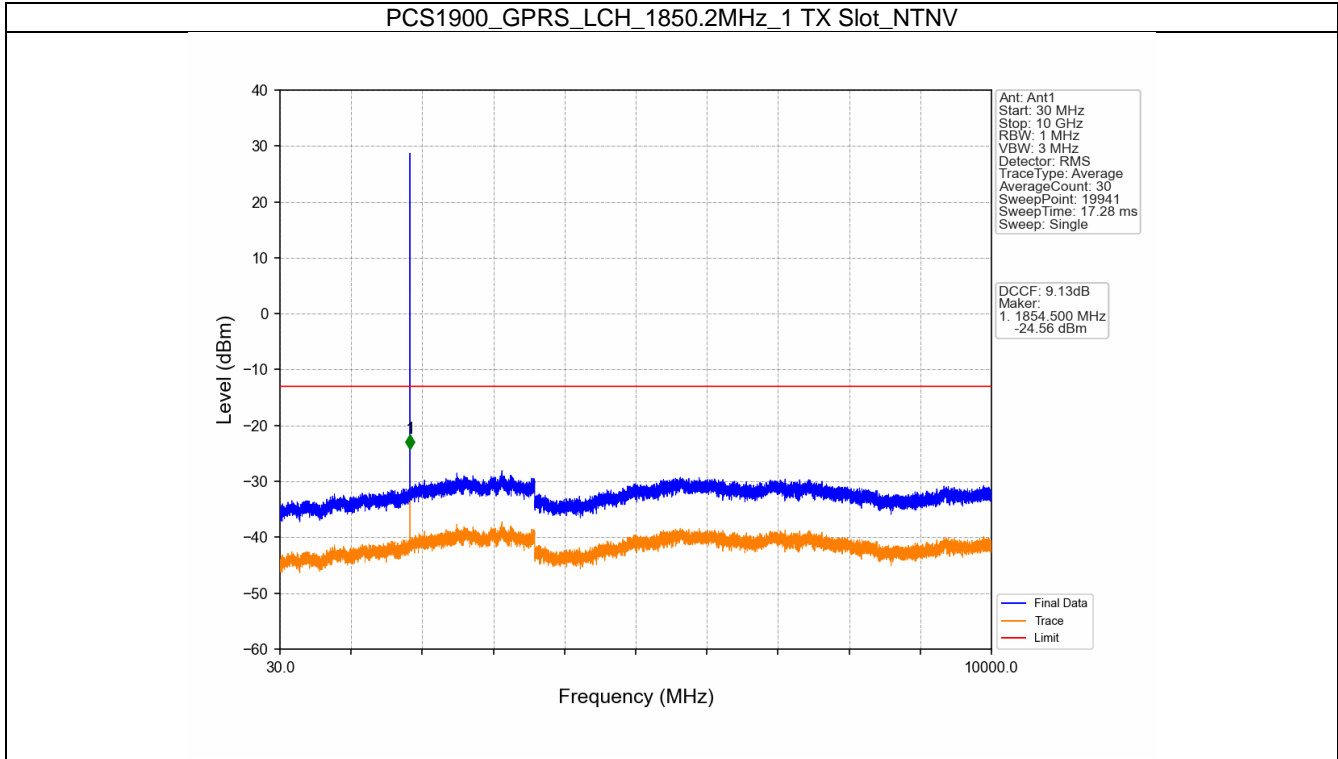
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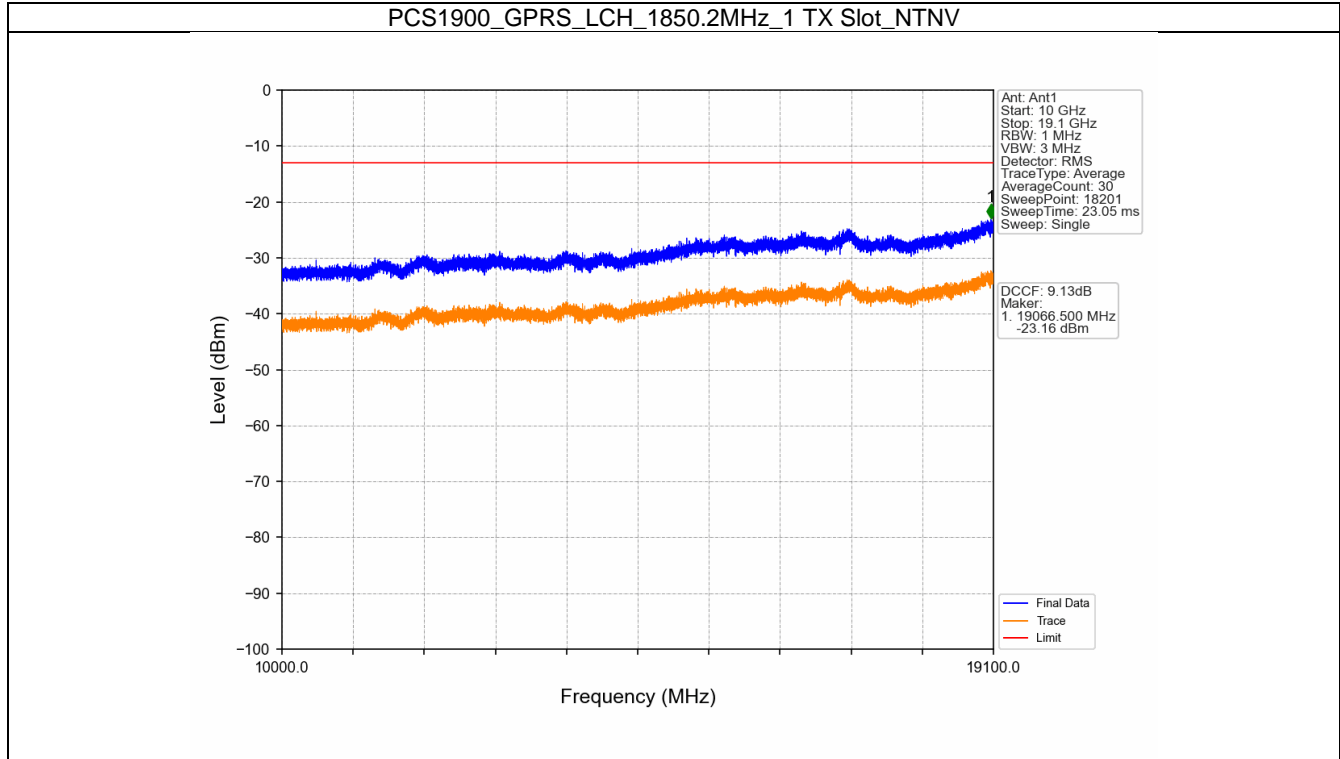
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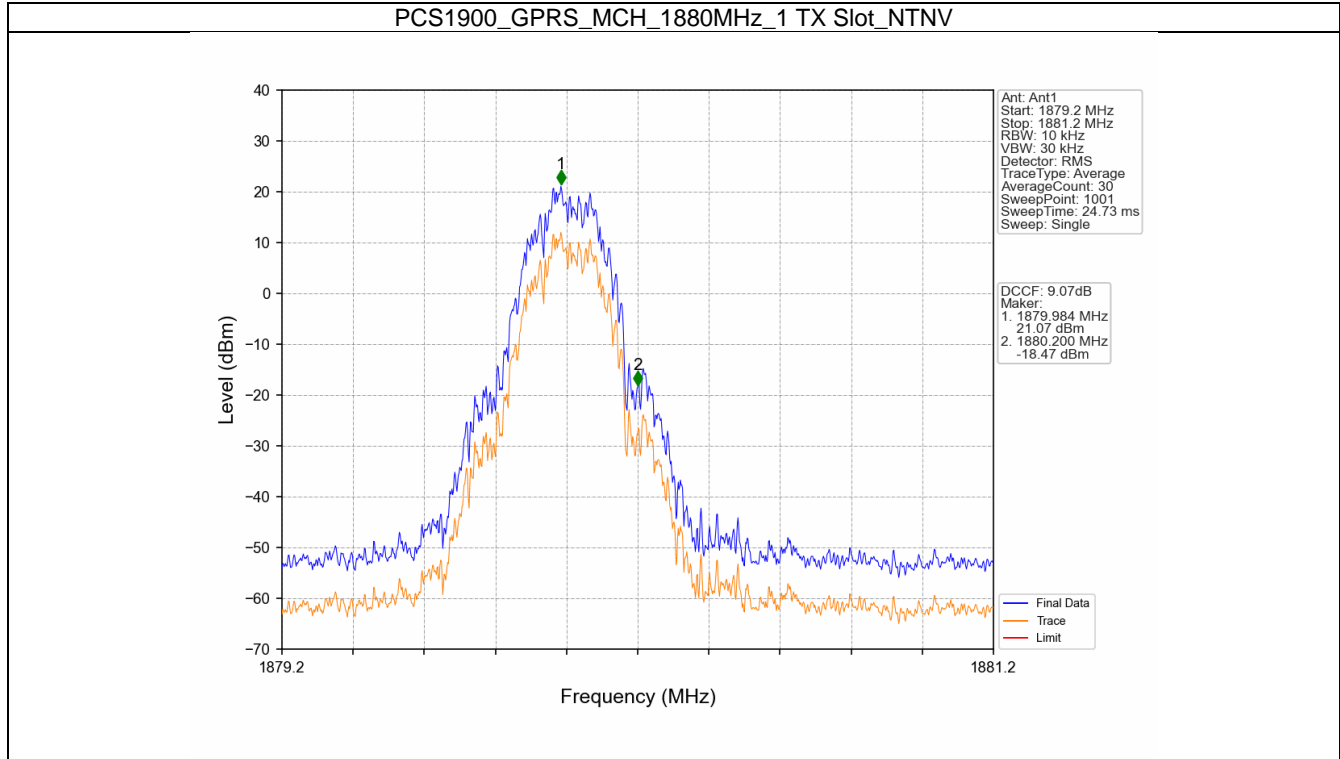
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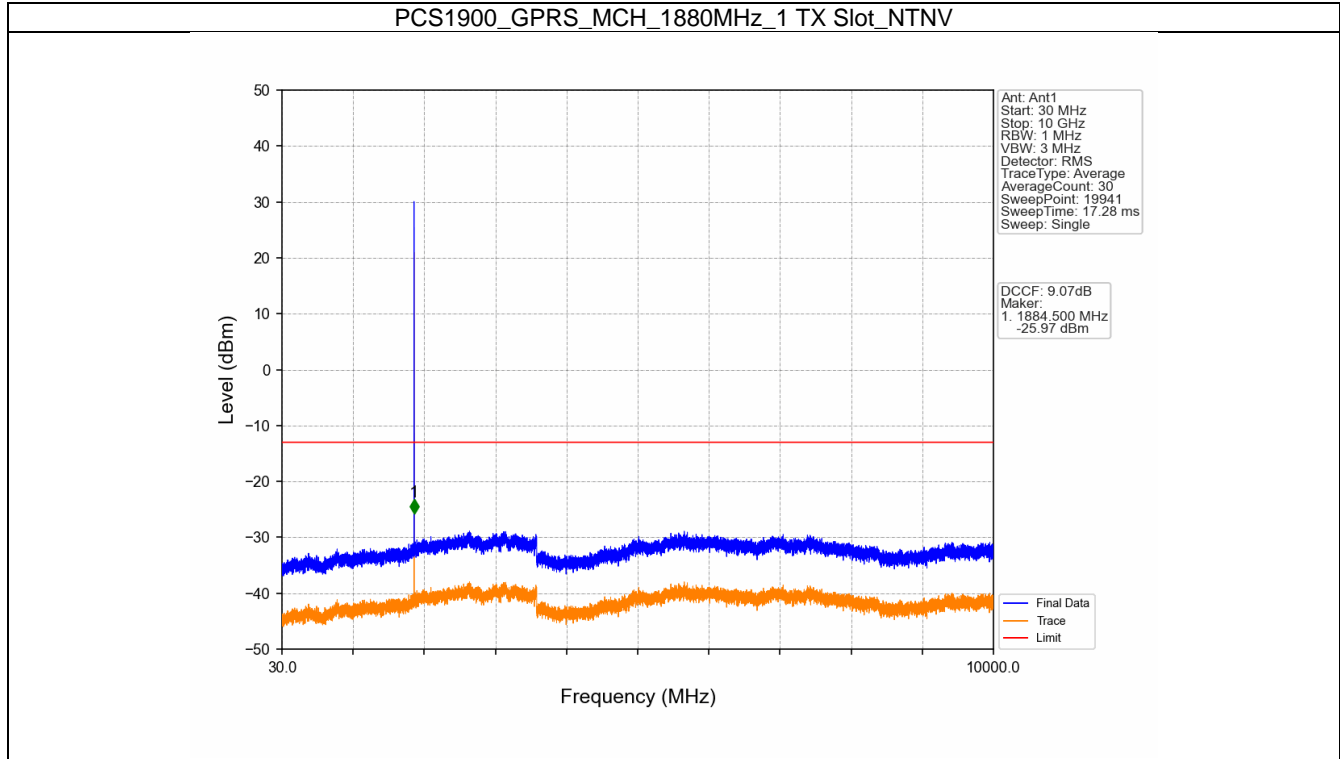
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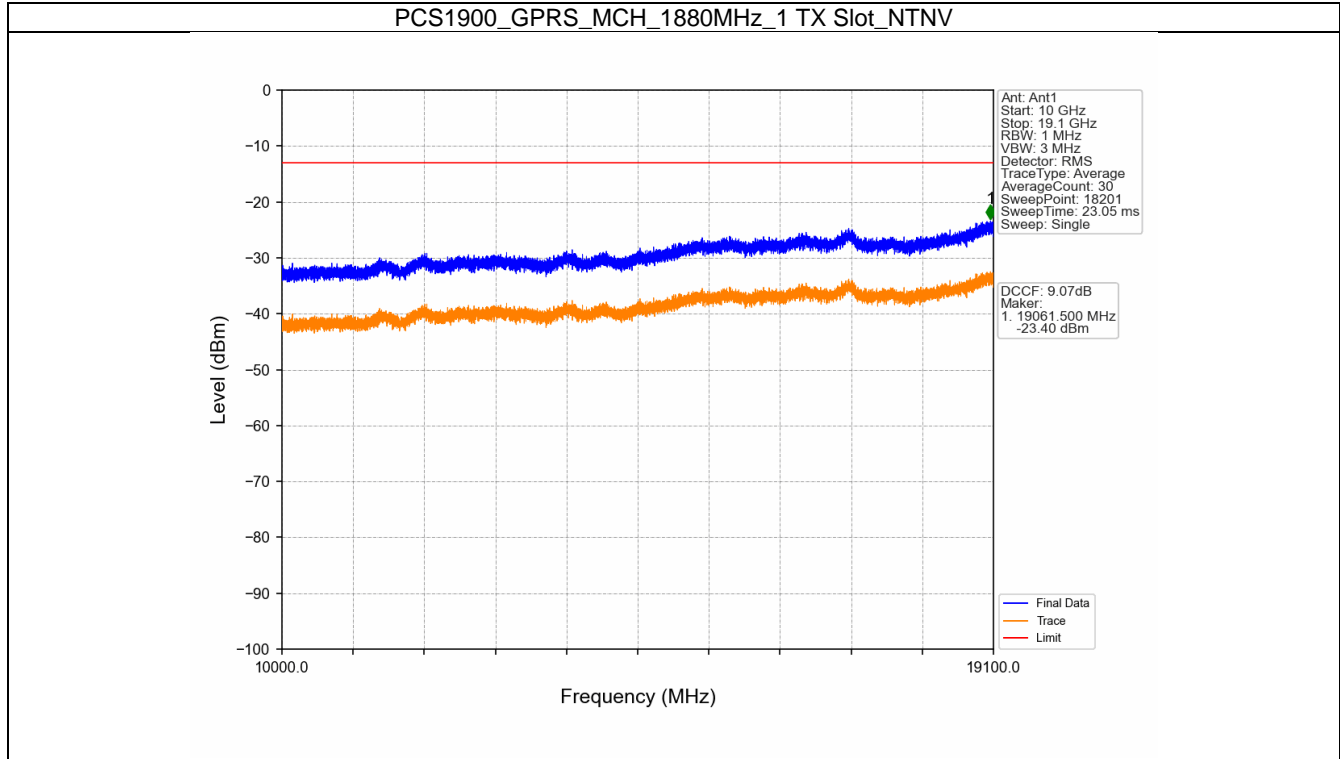
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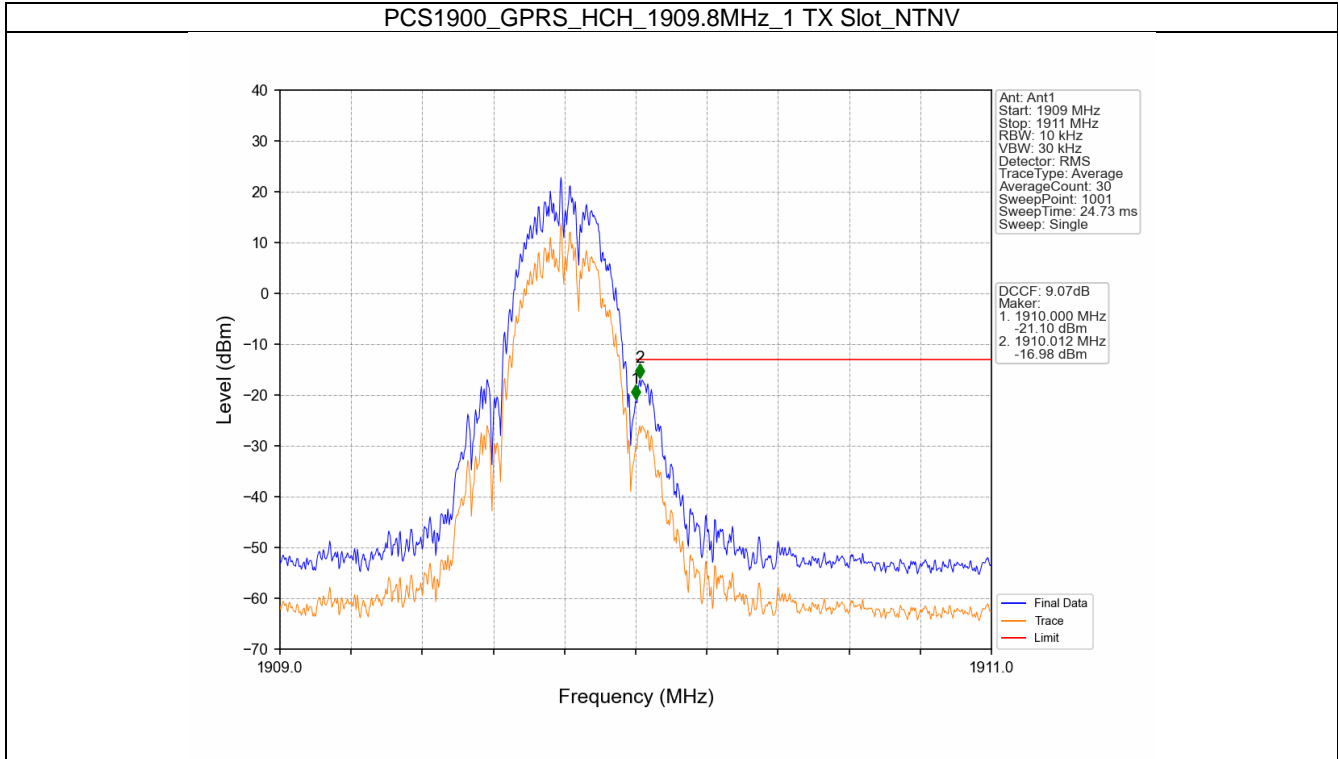
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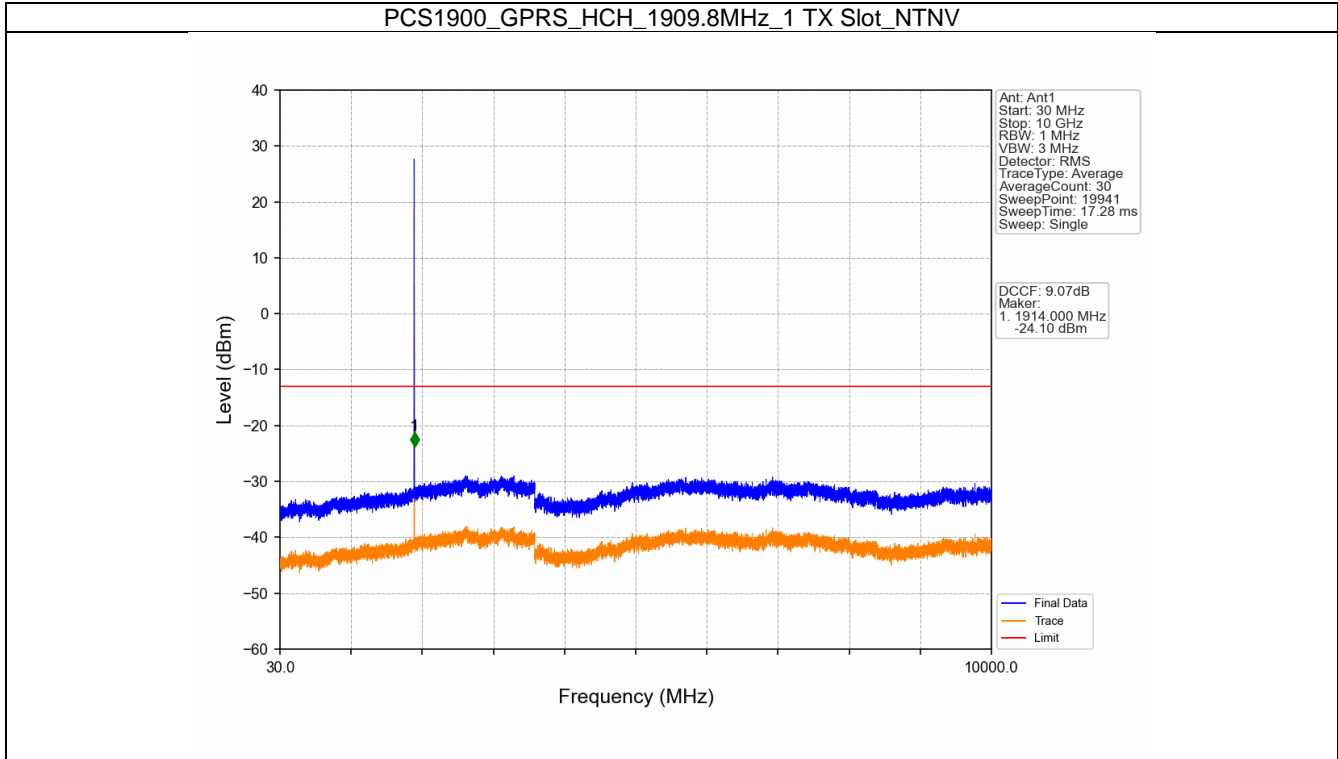
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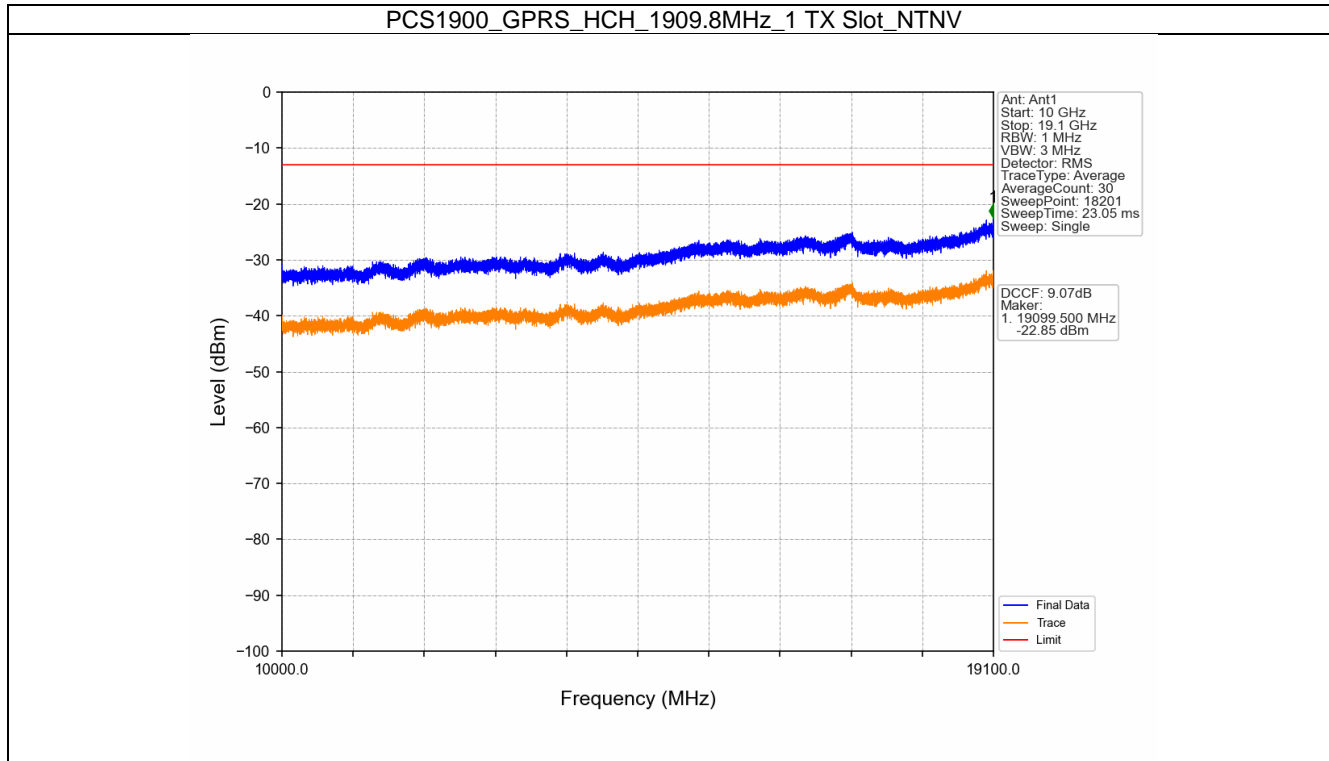


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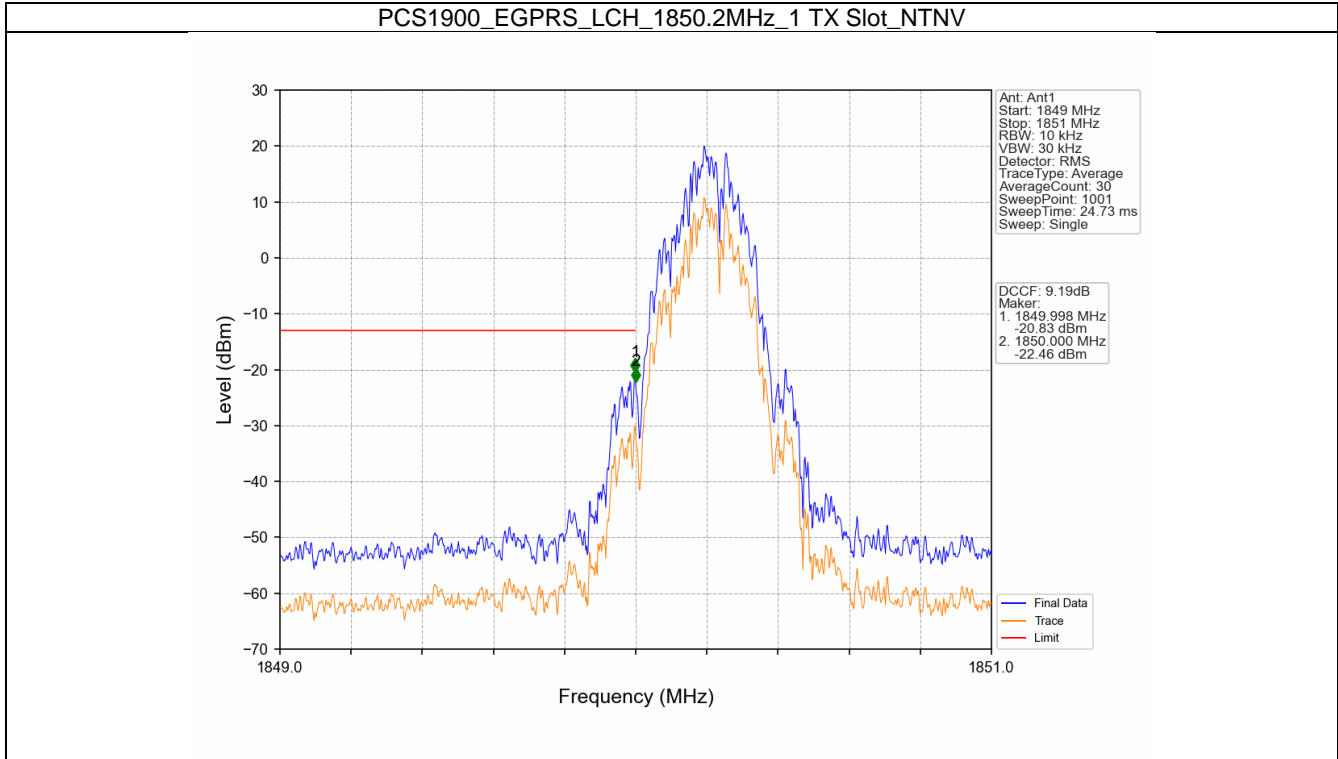
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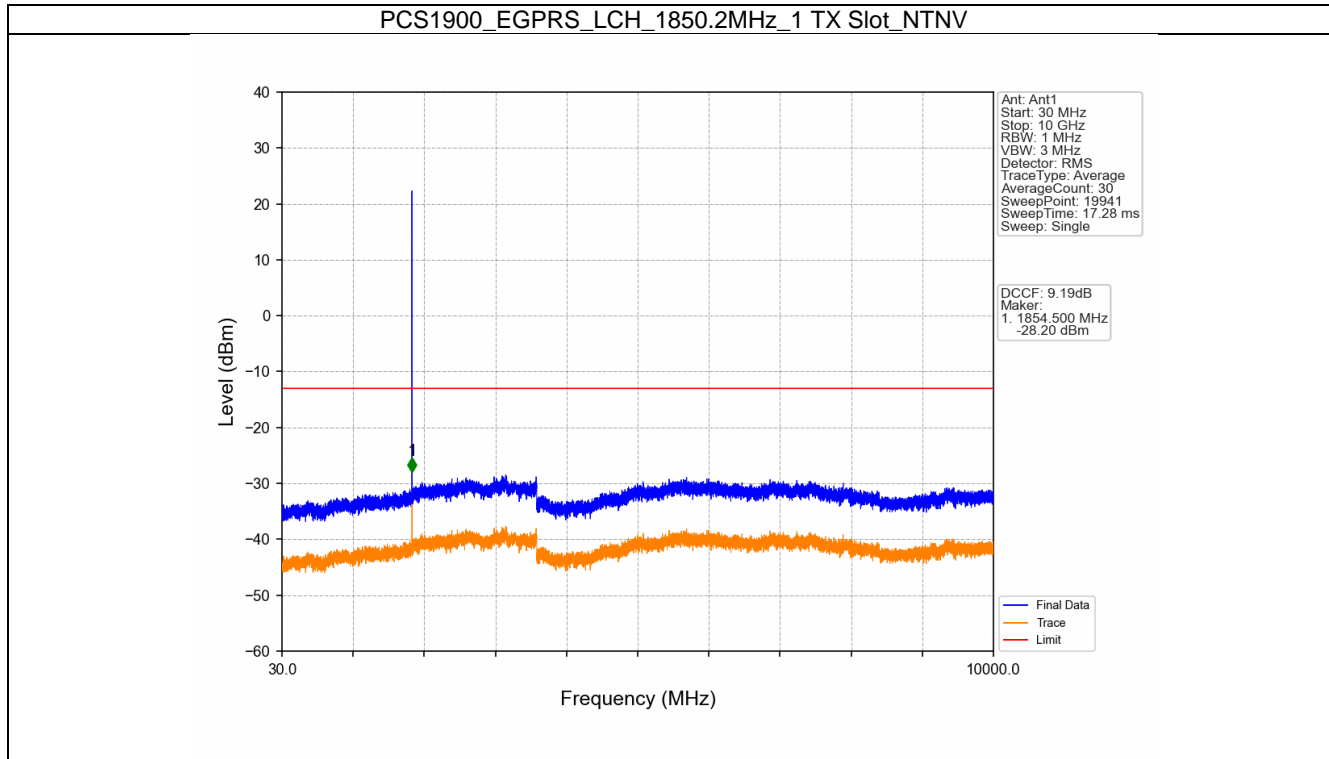


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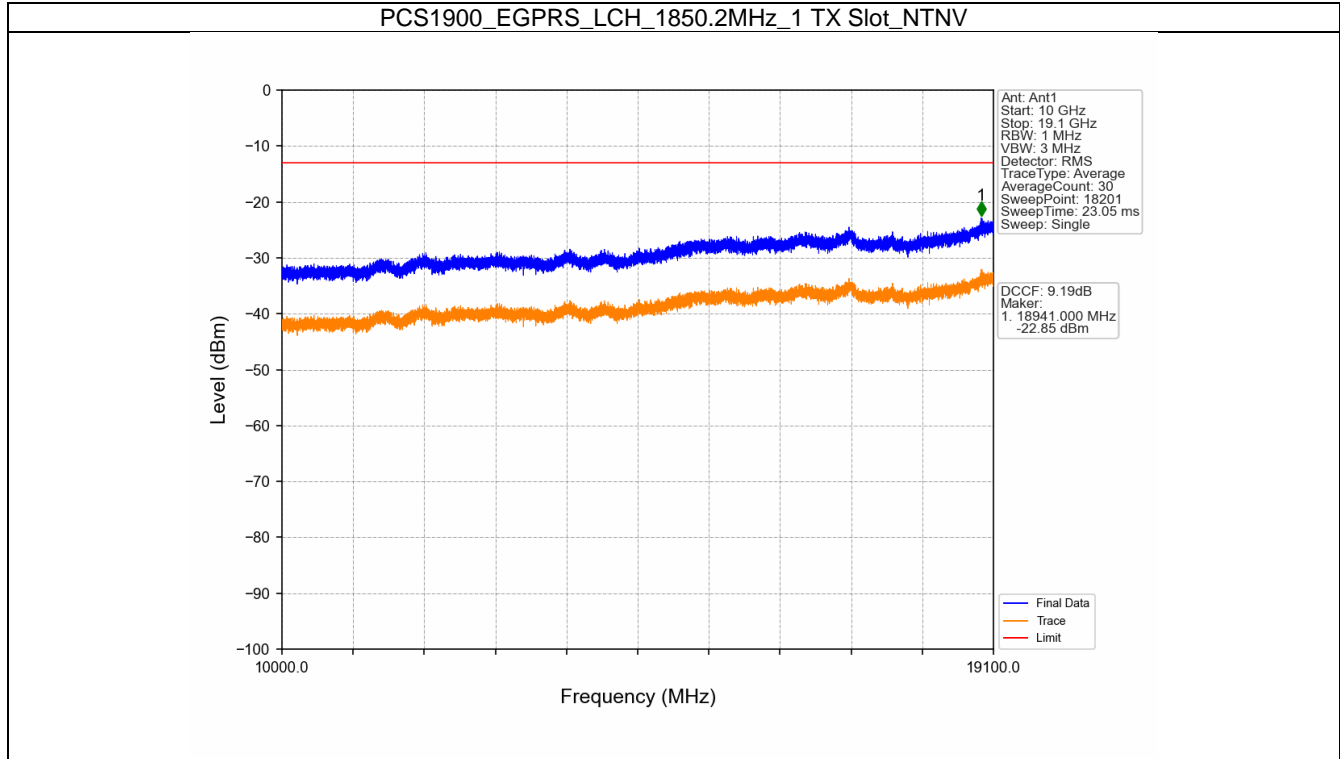
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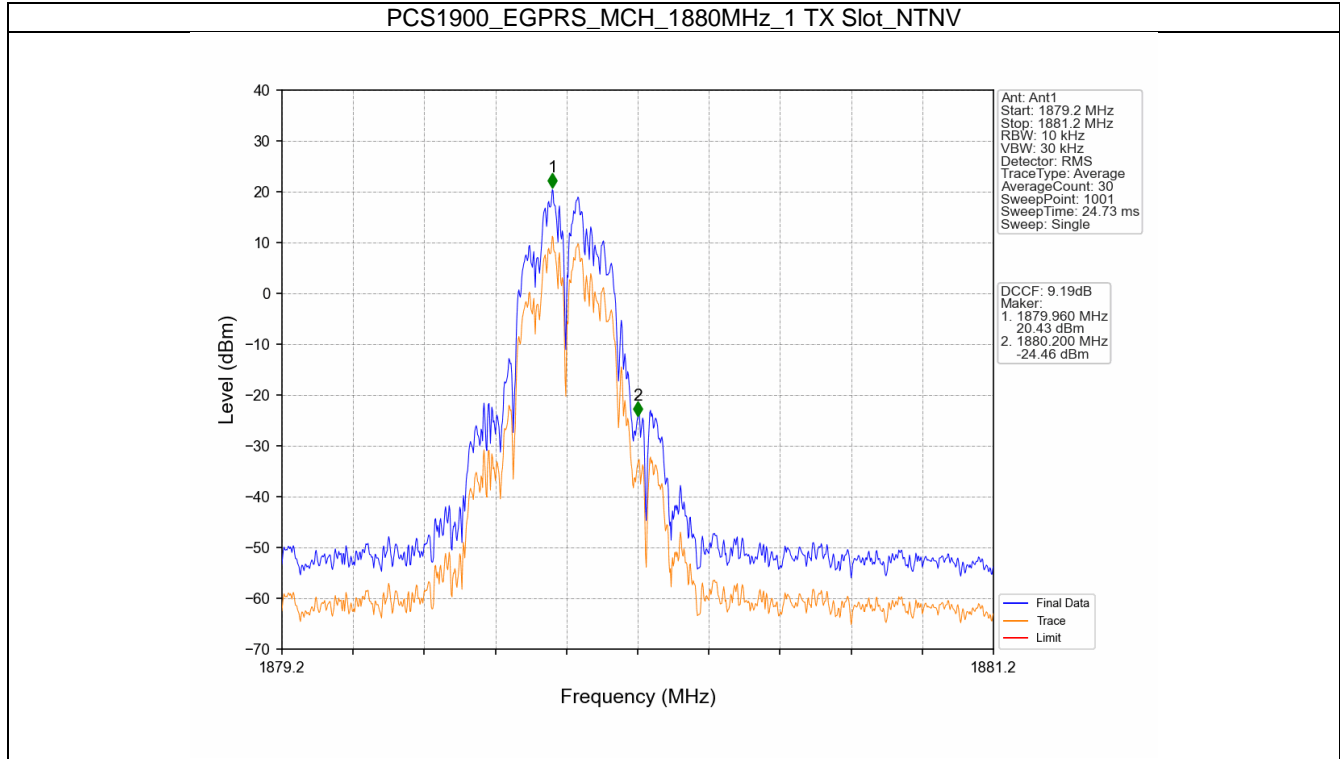


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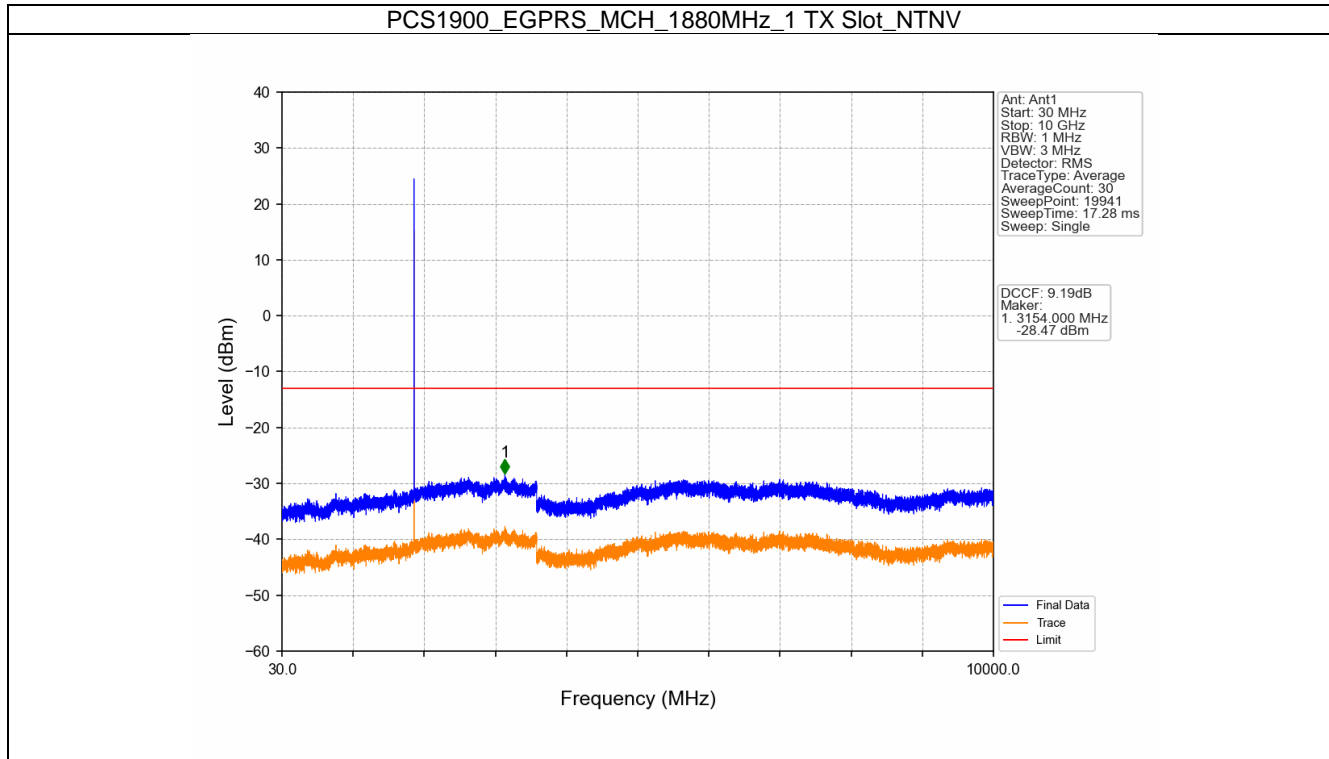


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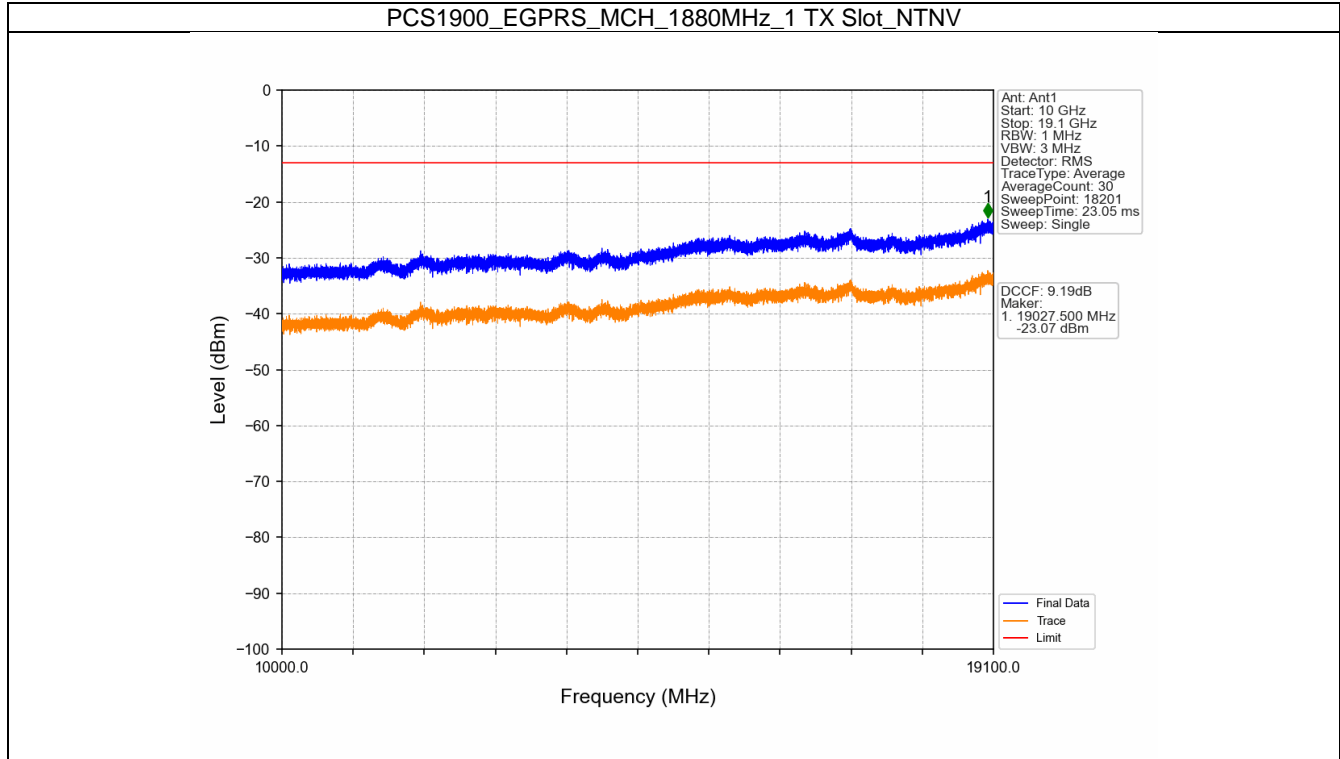
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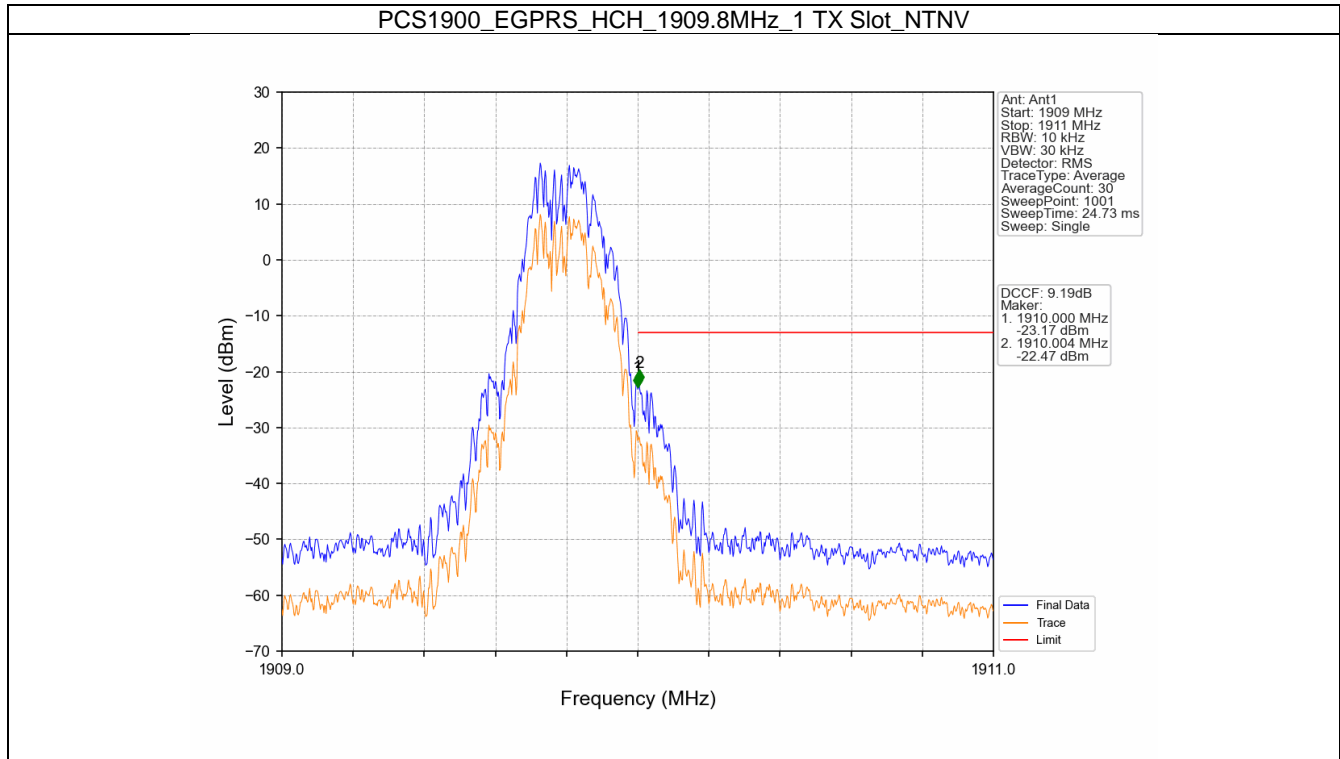


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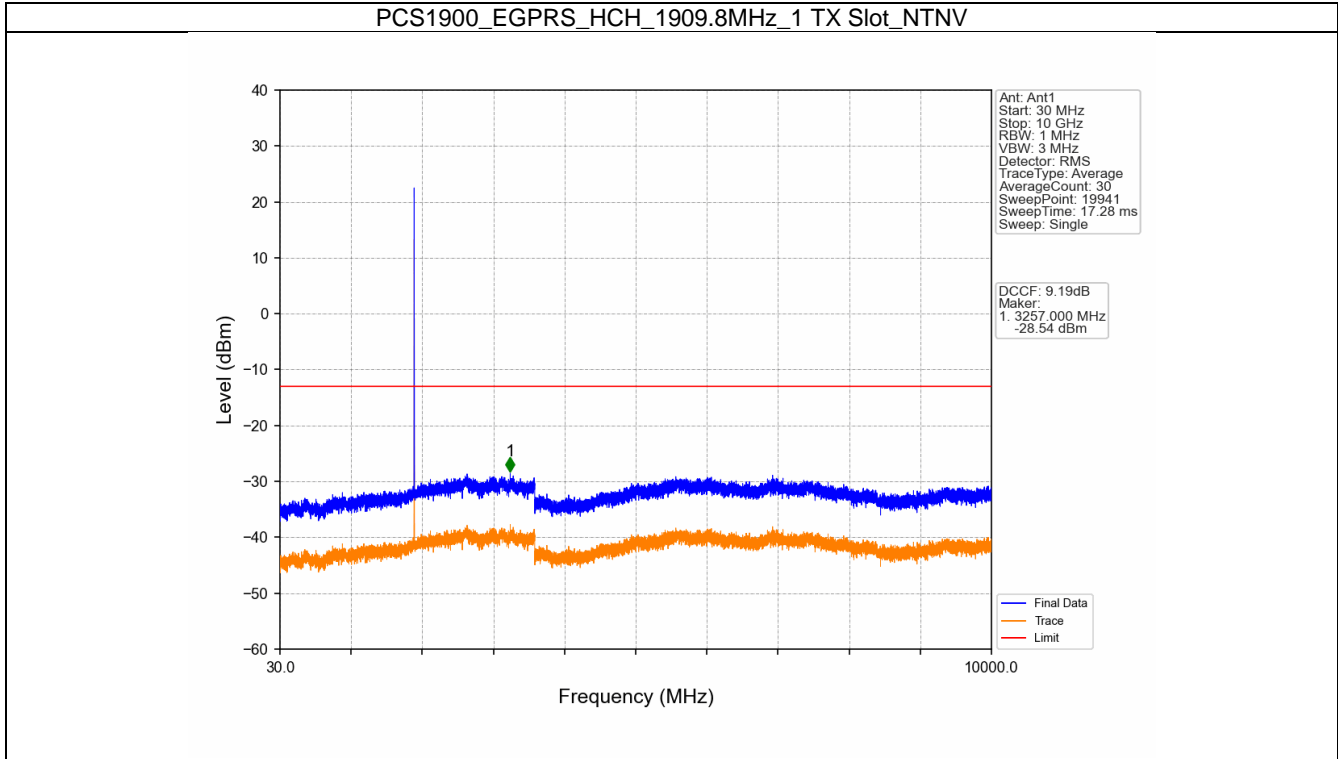
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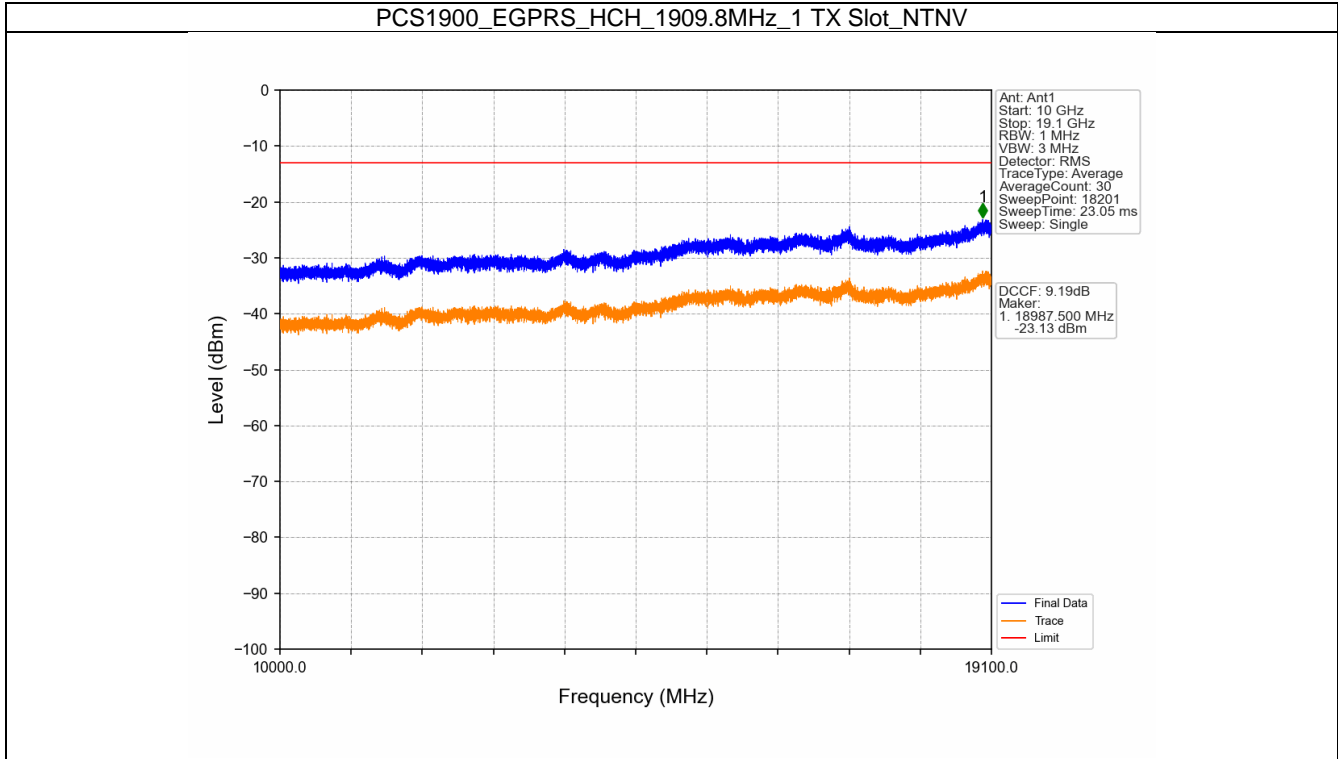
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6. Field Strength of Spurious Radiation

Test Band = GSM1900 ANT0_ 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	3700.4000	48.79	29.02	-47.48	-64.93	-13.00	51.93	Horizontal
2	5550.6000	47.33	32.58	-47.05	-62.40	-13.00	49.40	Horizontal
3	7400.8000	42.76	36.28	-45.07	-61.29	-13.00	48.29	Horizontal
4	9250.5500	40.61	36.68	-42.40	-60.37	-13.00	47.37	Horizontal
5	11100.6600	37.14	39.62	-39.40	-57.90	-13.00	44.90	Horizontal
6	12950.7700	36.04	39.70	-38.61	-58.13	-13.00	45.13	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.4000	46.95	29.02	-47.48	-66.77	-13.00	53.77	Vertical
2	5550.6000	44.27	32.58	-47.05	-65.46	-13.00	52.46	Vertical
3	7400.8000	42.50	36.28	-45.07	-61.55	-13.00	48.55	Vertical
4	9250.5500	40.56	36.68	-42.40	-60.42	-13.00	47.42	Vertical
5	11100.6600	38.99	39.62	-39.40	-56.05	-13.00	43.05	Vertical
6	12950.7700	37.33	39.70	-38.61	-56.84	-13.00	43.84	Vertical



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Test Band = GSM1900 ANT0_ 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	3760.0000	44.84	29.12	-47.32	-68.62	-13.00	55.62	Horizontal
2	5640.0000	45.09	32.54	-46.87	-64.50	-13.00	51.50	Horizontal
3	7520.0000	42.53	36.39	-45.00	-61.34	-13.00	48.34	Horizontal
4	9400.0000	39.36	37.02	-41.56	-60.44	-13.00	47.44	Horizontal
5	11279.5000	37.51	39.66	-39.27	-57.36	-13.00	44.36	Horizontal
6	13159.0000	36.24	39.99	-38.47	-57.50	-13.00	44.50	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760.0000	44.75	29.12	-47.32	-68.71	-13.00	55.71	Vertical
2	5640.0000	45.02	32.54	-46.87	-64.57	-13.00	51.57	Vertical
3	7520.0000	42.90	36.39	-45.00	-60.97	-13.00	47.97	Vertical
4	9400.0000	39.86	37.02	-41.56	-59.94	-13.00	46.94	Vertical
5	11279.5000	36.87	39.66	-39.27	-58.00	-13.00	45.00	Vertical
6	13159.0000	36.24	39.99	-38.47	-57.50	-13.00	44.50	Vertical



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Test Band = GSM1900 ANT0_ 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	3819.6000	45.26	29.21	-47.19	-67.98	-13.00	54.98	Horizontal
2	5729.4000	45.47	32.51	-46.79	-64.07	-13.00	51.07	Horizontal
3	7639.2000	42.17	36.34	-44.39	-61.14	-13.00	48.14	Horizontal
4	9548.5500	38.91	37.36	-41.98	-60.97	-13.00	47.97	Horizontal
5	11458.2600	36.55	39.69	-38.88	-57.90	-13.00	44.90	Horizontal
6	13367.9700	36.72	40.36	-38.63	-56.81	-13.00	43.81	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3819.6000	46.08	29.21	-47.19	-67.16	-13.00	54.16	Vertical
2	5729.4000	44.07	32.51	-46.79	-65.47	-13.00	52.47	Vertical
3	7639.2000	42.59	36.34	-44.39	-60.72	-13.00	47.72	Vertical
4	9548.5500	39.61	37.36	-41.98	-60.27	-13.00	47.27	Vertical
5	11458.2600	41.46	39.69	-38.88	-52.99	-13.00	39.99	Vertical
6	13367.9700	40.02	40.36	-38.63	-53.51	-13.00	40.51	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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