

Appendix F for KSCR2205000668AT-FCC-GSM-1900

1. Effective (Isotropic) Radiated Power Output Data

1.1 PCS1900\_EIRP

1.1.1 Test Result

Band: PCS1900								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dbi)	EIRP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	GSM	GSM	1850.2	29.35	-0.56	28.79	<=33.01	Pass
			1880	29.57	-0.56	29.01	<=33.01	Pass
			1909.8	28.99	-0.56	28.43	<=33.01	Pass
	GPRS	1 TX Slot	1850.2	29.36	-0.56	28.80	<=33.01	Pass
		2 TX Slots	1850.2	28.63	-0.56	28.07	<=33.01	Pass
		3 TX Slots	1850.2	26.90	-0.56	26.34	<=33.01	Pass
		4 TX Slots	1850.2	25.82	-0.56	25.26	<=33.01	Pass
		1 TX Slot	1880	29.54	-0.56	28.98	<=33.01	Pass
		2 TX Slots	1880	28.82	-0.56	28.26	<=33.01	Pass
		3 TX Slots	1880	27.08	-0.56	26.52	<=33.01	Pass
		4 TX Slots	1880	25.99	-0.56	25.43	<=33.01	Pass
		1 TX Slot	1909.8	28.96	-0.56	28.40	<=33.01	Pass
		2 TX Slots	1909.8	28.26	-0.56	27.70	<=33.01	Pass
		3 TX Slots	1909.8	26.55	-0.56	25.99	<=33.01	Pass
		4 TX Slots	1909.8	25.46	-0.56	24.90	<=33.01	Pass
	EGPRS	1 TX Slot	1850.2	26.48	-0.56	25.92	<=33.01	Pass
		2 TX Slots	1850.2	25.40	-0.56	24.84	<=33.01	Pass
		3 TX Slots	1850.2	23.43	-0.56	22.87	<=33.01	Pass
		4 TX Slots	1850.2	22.30	-0.56	21.74	<=33.01	Pass
		1 TX Slot	1880	26.14	-0.56	25.58	<=33.01	Pass
		2 TX Slots	1880	25.27	-0.56	24.71	<=33.01	Pass
		3 TX Slots	1880	23.16	-0.56	22.60	<=33.01	Pass
		4 TX Slots	1880	22.02	-0.56	21.46	<=33.01	Pass
		1 TX Slot	1909.8	26.46	-0.56	25.90	<=33.01	Pass
		2 TX Slots	1909.8	25.53	-0.56	24.97	<=33.01	Pass
		3 TX Slots	1909.8	24.30	-0.56	23.74	<=33.01	Pass
		4 TX Slots	1909.8	22.38	-0.56	21.82	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

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	



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GSM	1850.2	20	3.46	25.570	0.0138	-2.5 to 2.5	Pass	
			3.8	22.762	0.0123	-2.5 to 2.5	Pass	
			4.35	19.146	0.0103	-2.5 to 2.5	Pass	
		-30	3.8	22.536	0.0122	-2.5 to 2.5	Pass	
			-20	3.8	27.314	0.0148	-2.5 to 2.5	Pass
				-10	3.8	23.698	0.0128	-2.5 to 2.5
		0	3.8	26.022	0.0141	-2.5 to 2.5	Pass	
		10	3.8	30.672	0.0166	-2.5 to 2.5	Pass	
		30	3.8	20.986	0.0113	-2.5 to 2.5	Pass	
		40	3.8	22.729	0.0123	-2.5 to 2.5	Pass	
	50	3.8	24.473	0.0132	-2.5 to 2.5	Pass		
	1880	20	3.46	20.921	0.0111	-2.5 to 2.5	Pass	
			3.8	20.631	0.0110	-2.5 to 2.5	Pass	
			4.35	23.149	0.0123	-2.5 to 2.5	Pass	
		-30	3.8	17.047	0.0091	-2.5 to 2.5	Pass	
			-20	3.8	20.760	0.0110	-2.5 to 2.5	Pass
				-10	3.8	27.249	0.0145	-2.5 to 2.5
		0	3.8	20.534	0.0109	-2.5 to 2.5	Pass	
		10	3.8	29.316	0.0156	-2.5 to 2.5	Pass	
		30	3.8	26.087	0.0139	-2.5 to 2.5	Pass	
		40	3.8	22.665	0.0121	-2.5 to 2.5	Pass	
	50	3.8	25.538	0.0136	-2.5 to 2.5	Pass		
	1909.8	20	3.46	20.598	0.0108	-2.5 to 2.5	Pass	
			3.8	21.599	0.0113	-2.5 to 2.5	Pass	
			4.35	20.082	0.0105	-2.5 to 2.5	Pass	
		-30	3.8	21.761	0.0114	-2.5 to 2.5	Pass	
			-20	3.8	26.378	0.0138	-2.5 to 2.5	Pass
				-10	3.8	24.666	0.0129	-2.5 to 2.5
		0	3.8	24.053	0.0126	-2.5 to 2.5	Pass	
		10	3.8	20.308	0.0106	-2.5 to 2.5	Pass	
30		3.8	23.601	0.0124	-2.5 to 2.5	Pass		
40		3.8	24.473	0.0128	-2.5 to 2.5	Pass		
50	3.8	18.952	0.0099	-2.5 to 2.5	Pass			
GPRS	1850.2	20	3.46	23.052	0.0125	-2.5 to 2.5	Pass	
			3.8	18.209	0.0098	-2.5 to 2.5	Pass	
			4.35	22.858	0.0124	-2.5 to 2.5	Pass	
		-30	3.8	20.857	0.0113	-2.5 to 2.5	Pass	
			-20	3.8	23.278	0.0126	-2.5 to 2.5	Pass
				-10	3.8	22.858	0.0124	-2.5 to 2.5
		0	3.8	22.536	0.0122	-2.5 to 2.5	Pass	
		10	3.8	22.503	0.0122	-2.5 to 2.5	Pass	
		30	3.8	20.146	0.0109	-2.5 to 2.5	Pass	
		40	3.8	21.987	0.0119	-2.5 to 2.5	Pass	
	50	3.8	19.759	0.0107	-2.5 to 2.5	Pass		
	1880	20	3.46	20.146	0.0107	-2.5 to 2.5	Pass	
			3.8	23.149	0.0123	-2.5 to 2.5	Pass	
			4.35	21.535	0.0115	-2.5 to 2.5	Pass	
		-30	3.8	17.919	0.0095	-2.5 to 2.5	Pass	
			-20	3.8	26.055	0.0139	-2.5 to 2.5	Pass
				-10	3.8	21.761	0.0116	-2.5 to 2.5
		0	3.8	17.822	0.0095	-2.5 to 2.5	Pass	
		10	3.8	26.894	0.0143	-2.5 to 2.5	Pass	
		30	3.8	19.824	0.0105	-2.5 to 2.5	Pass	
		40	3.8	16.530	0.0088	-2.5 to 2.5	Pass	

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	1909.8	50	3.8	16.724	0.0089	-2.5 to 2.5	Pass
		20	3.46	21.502	0.0113	-2.5 to 2.5	Pass
			3.8	20.986	0.0110	-2.5 to 2.5	Pass
			4.35	18.726	0.0098	-2.5 to 2.5	Pass
		-30	3.8	22.051	0.0115	-2.5 to 2.5	Pass
		-20	3.8	22.406	0.0117	-2.5 to 2.5	Pass
		-10	3.8	20.308	0.0106	-2.5 to 2.5	Pass
		0	3.8	21.858	0.0114	-2.5 to 2.5	Pass
		10	3.8	20.663	0.0108	-2.5 to 2.5	Pass
		30	3.8	20.211	0.0106	-2.5 to 2.5	Pass
40	3.8	22.277	0.0117	-2.5 to 2.5	Pass		
50	3.8	19.759	0.0103	-2.5 to 2.5	Pass		
EGPRS	1850.2	20	3.46	25.409	0.0137	-2.5 to 2.5	Pass
			3.8	22.600	0.0122	-2.5 to 2.5	Pass
			4.35	20.017	0.0108	-2.5 to 2.5	Pass
		-30	3.8	15.788	0.0085	-2.5 to 2.5	Pass
		-20	3.8	17.499	0.0095	-2.5 to 2.5	Pass
		-10	3.8	15.013	0.0081	-2.5 to 2.5	Pass
		0	3.8	19.791	0.0107	-2.5 to 2.5	Pass
		10	3.8	20.211	0.0109	-2.5 to 2.5	Pass
		30	3.8	19.565	0.0106	-2.5 to 2.5	Pass
		40	3.8	16.821	0.0091	-2.5 to 2.5	Pass
	50	3.8	18.952	0.0102	-2.5 to 2.5	Pass	
	1880	20	3.46	18.274	0.0097	-2.5 to 2.5	Pass
			3.8	19.242	0.0102	-2.5 to 2.5	Pass
			4.35	21.115	0.0112	-2.5 to 2.5	Pass
		-30	3.8	16.886	0.0090	-2.5 to 2.5	Pass
		-20	3.8	16.208	0.0086	-2.5 to 2.5	Pass
		-10	3.8	17.854	0.0095	-2.5 to 2.5	Pass
		0	3.8	16.337	0.0087	-2.5 to 2.5	Pass
		10	3.8	24.376	0.0130	-2.5 to 2.5	Pass
		30	3.8	21.954	0.0117	-2.5 to 2.5	Pass
		40	3.8	17.273	0.0092	-2.5 to 2.5	Pass
	50	3.8	12.817	0.0068	-2.5 to 2.5	Pass	
	1909.8	20	3.46	15.271	0.0080	-2.5 to 2.5	Pass
			3.8	14.077	0.0074	-2.5 to 2.5	Pass
			4.35	12.850	0.0067	-2.5 to 2.5	Pass
		-30	3.8	12.333	0.0065	-2.5 to 2.5	Pass
		-20	3.8	17.176	0.0090	-2.5 to 2.5	Pass
		-10	3.8	22.600	0.0118	-2.5 to 2.5	Pass
		0	3.8	17.854	0.0093	-2.5 to 2.5	Pass
		10	3.8	17.854	0.0093	-2.5 to 2.5	Pass
30		3.8	17.047	0.0089	-2.5 to 2.5	Pass	
40		3.8	11.849	0.0062	-2.5 to 2.5	Pass	
50	3.8	20.534	0.0108	-2.5 to 2.5	Pass		

### 3. Modulation Characteristics

#### 3.1 PCS1900

##### 3.1.1 Test Result



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



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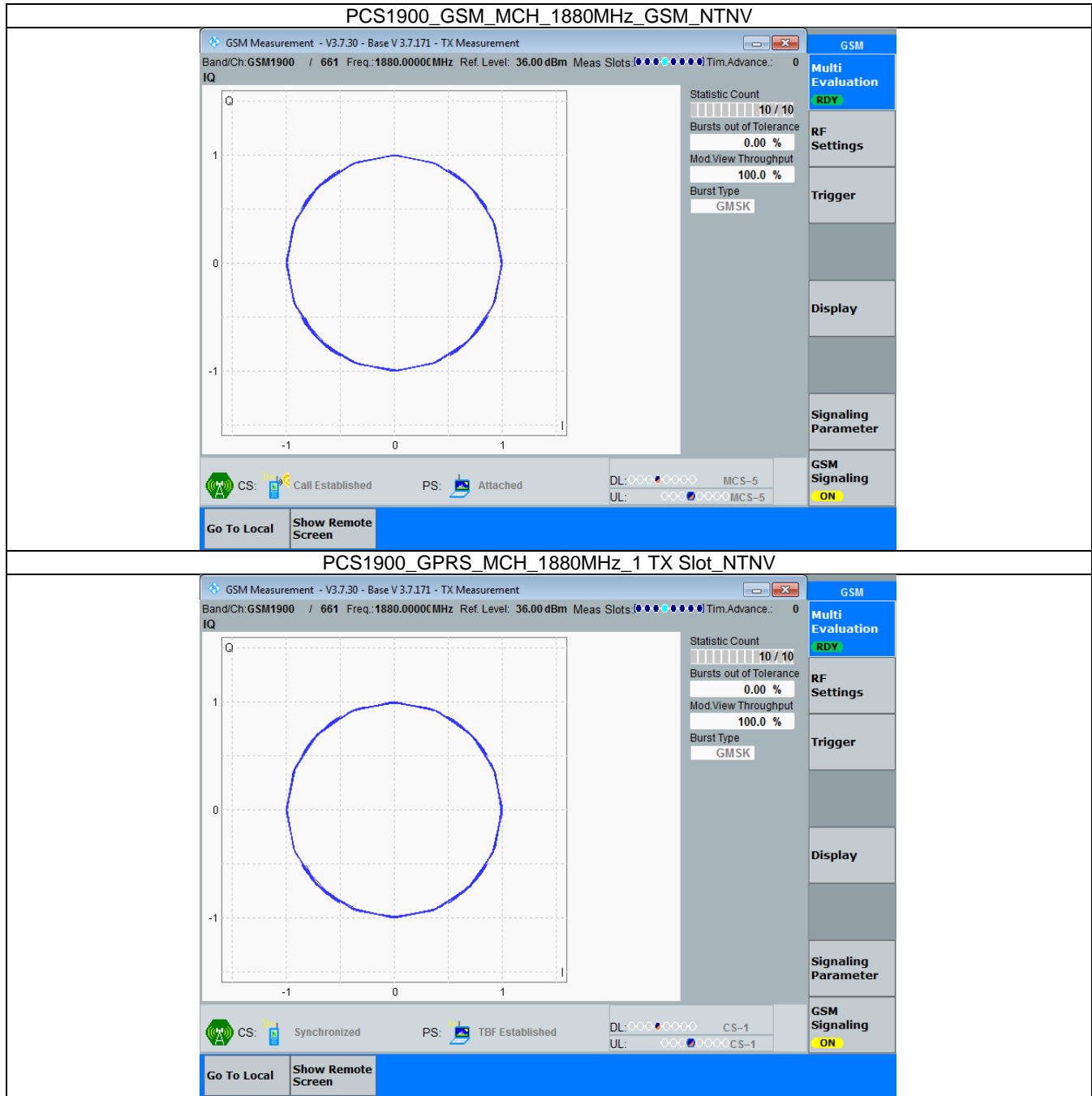
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## 3.1.2 Test Graph

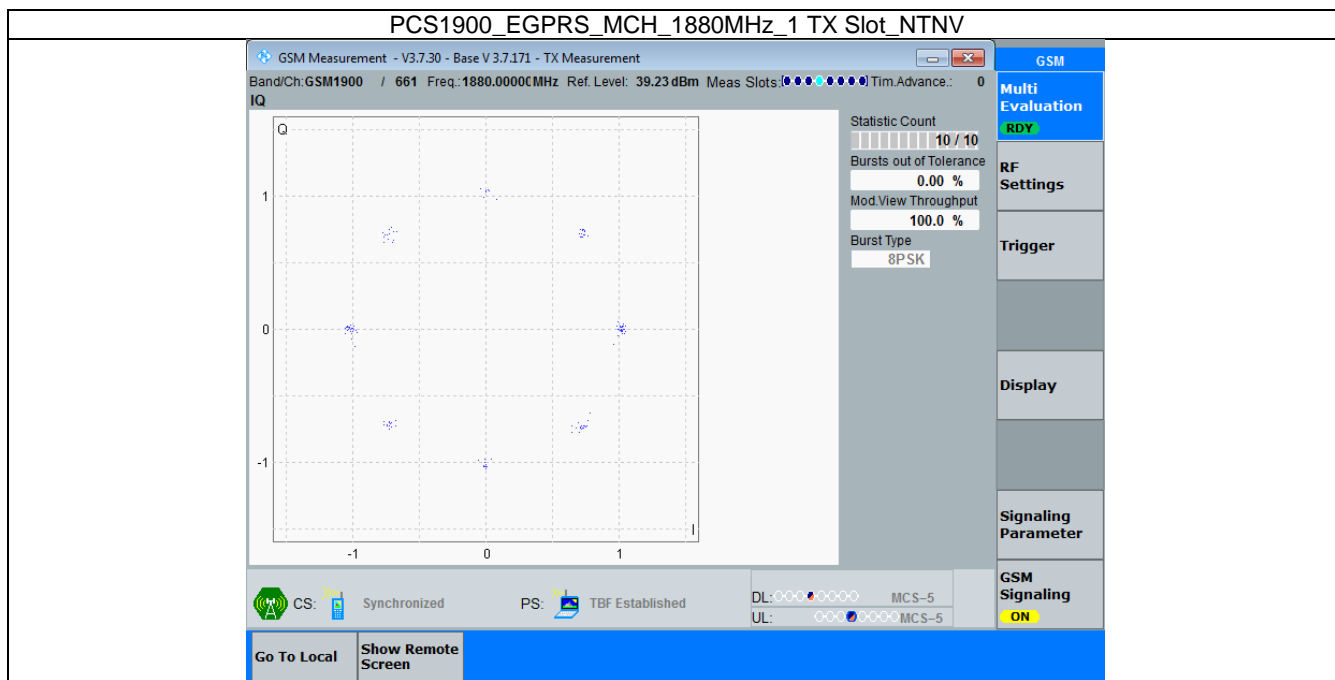


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#### 4. 99% & 26dB Bandwidth

##### 4.1 PCS1900\_OBW

##### 4.1.1 Test Result

Band: PCS1900					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GSM	GSM	1850.2	0.251	Pass
			1880	0.247	Pass
			1909.8	0.249	Pass
	GPRS	1 TX Slot	1850.2	0.248	Pass
			1880	0.247	Pass
			1909.8	0.248	Pass
	EGPRS	1 TX Slot	1850.2	0.245	Pass
			1880	0.236	Pass
			1909.8	0.244	Pass

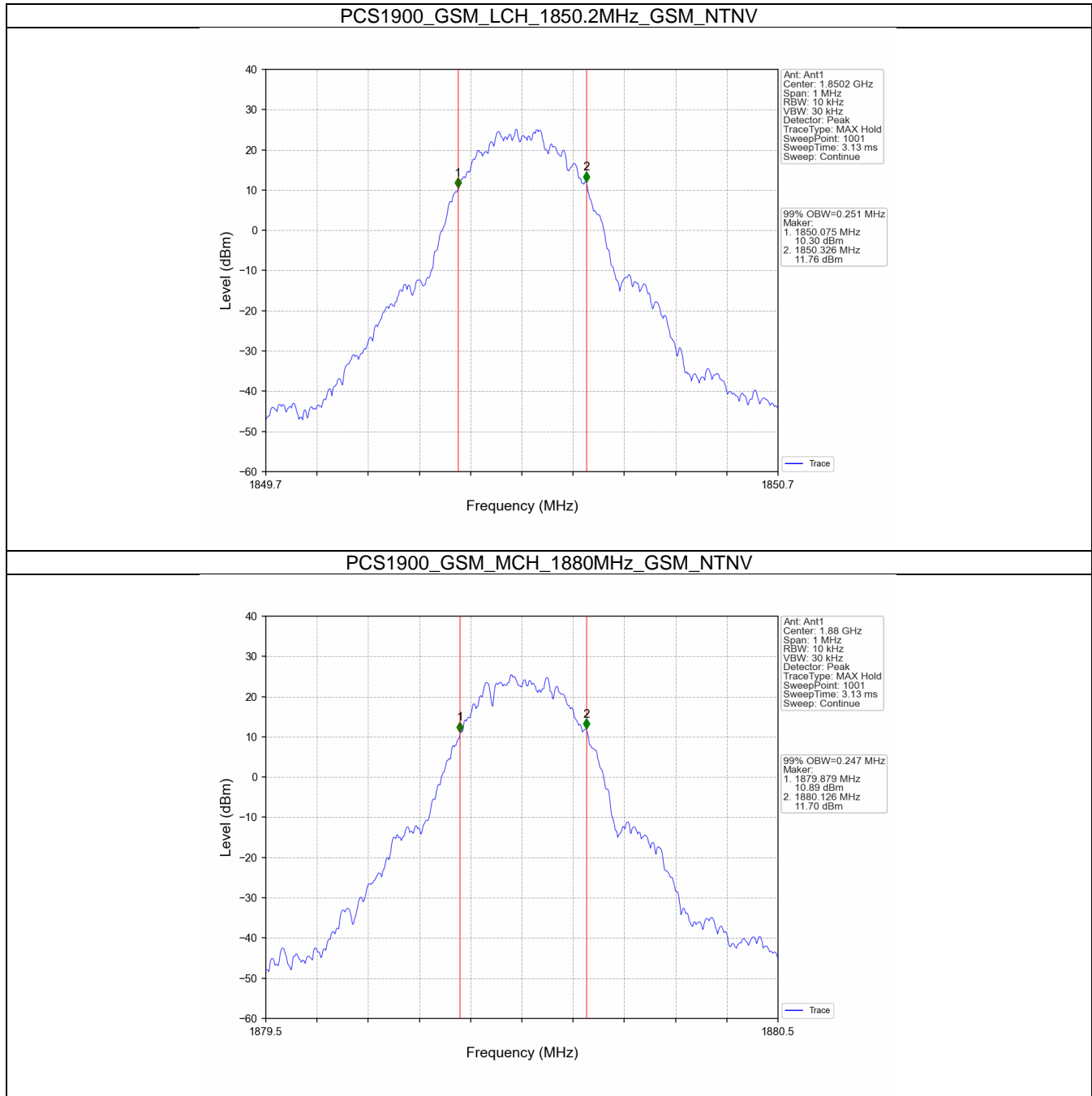


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4.1.2 Test Graph



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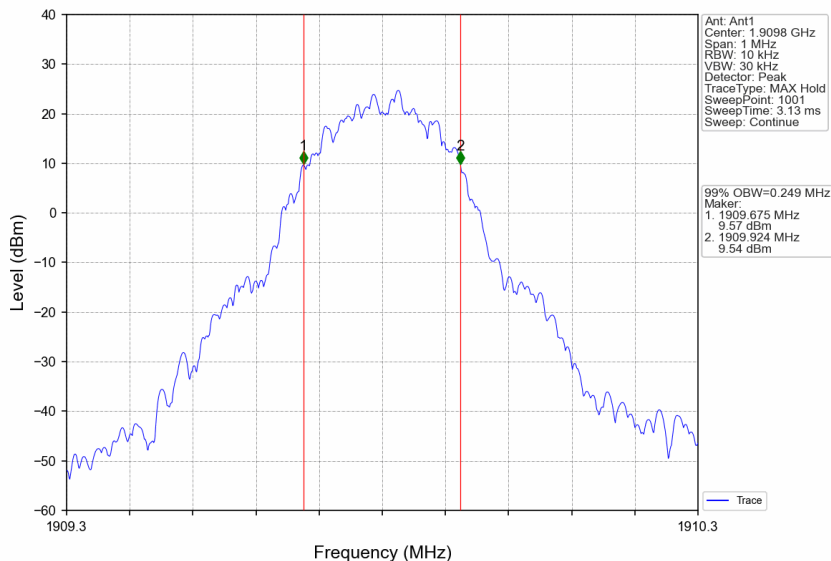
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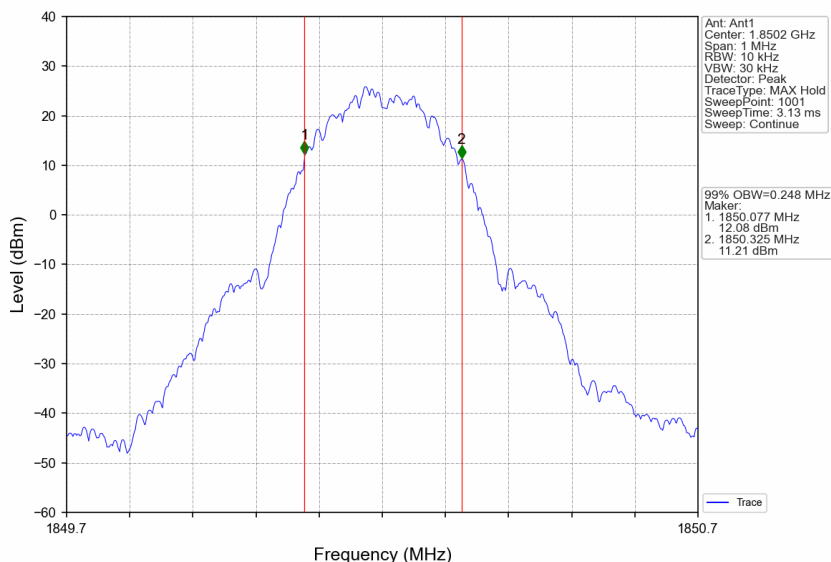
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PCS1900\_GPRS\_LCH\_1850.2MHz\_1 TX Slot\_NTNV



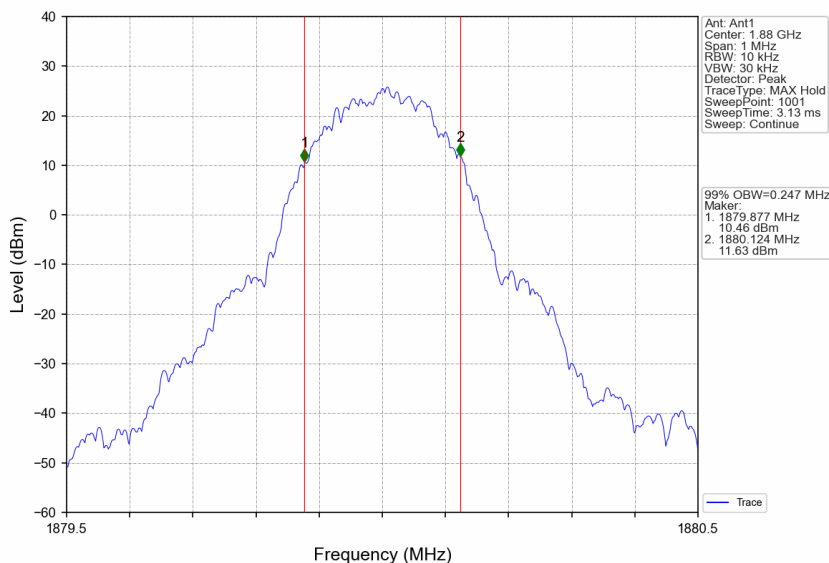
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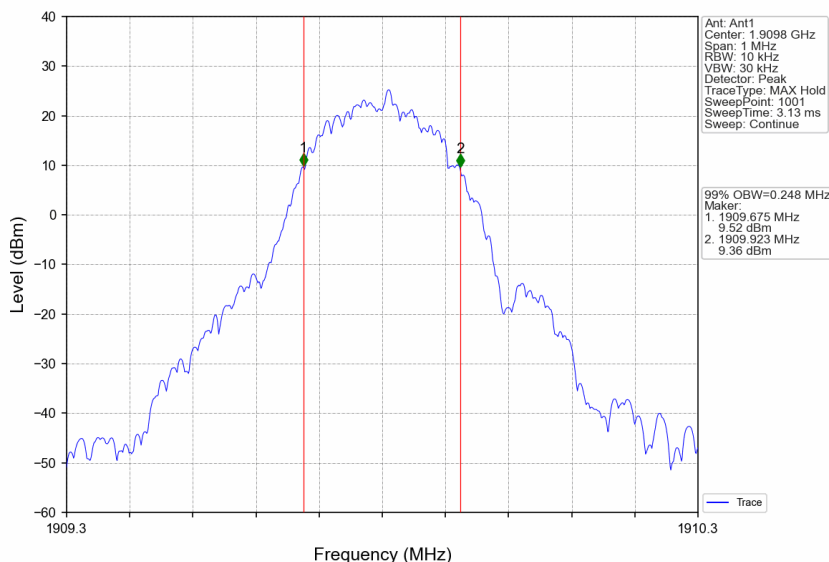
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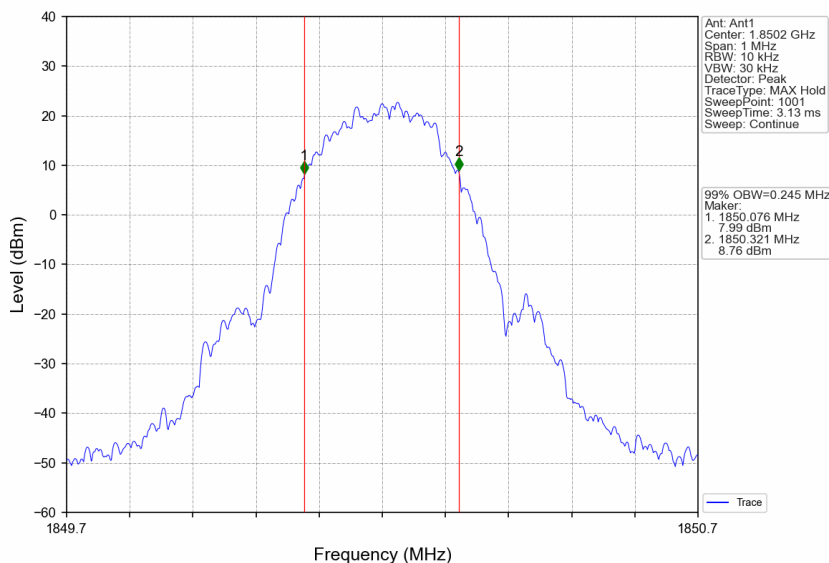
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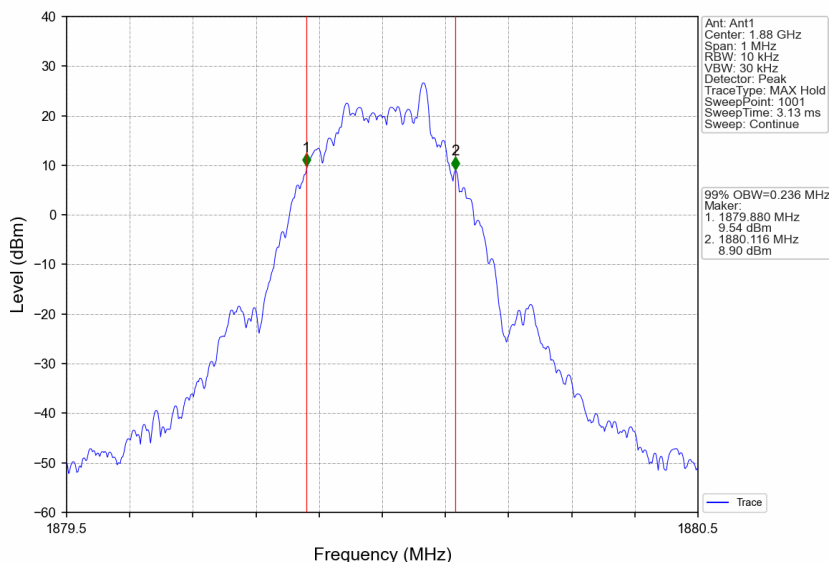
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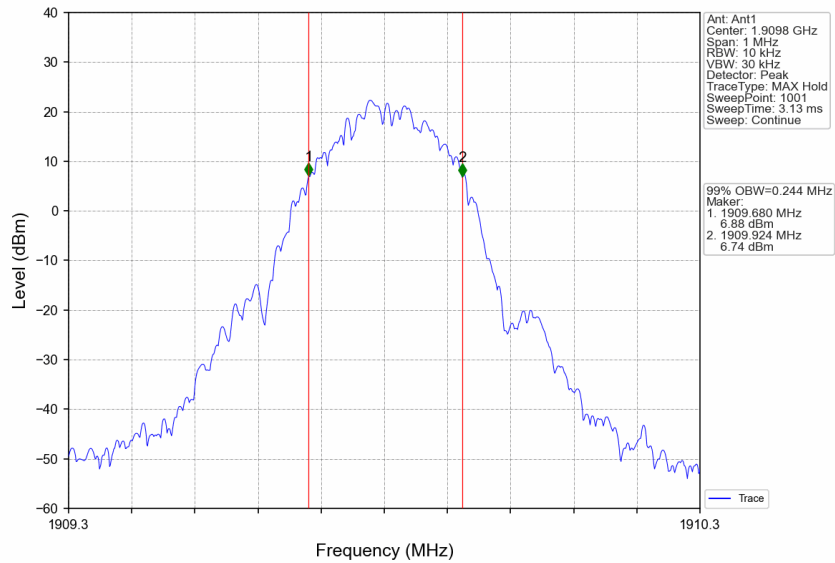
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4.2 PCS1900\_XDB

4.2.1 Test Result

Band: PCS1900					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GSM	GSM	1850.2	0.322	Pass
			1880	0.318	Pass
			1909.8	0.318	Pass
	GPRS	1 TX Slot	1850.2	0.318	Pass
			1880	0.316	Pass
			1909.8	0.313	Pass
	EGPRS	1 TX Slot	1850.2	0.317	Pass
			1880	0.290	Pass
			1909.8	0.304	Pass



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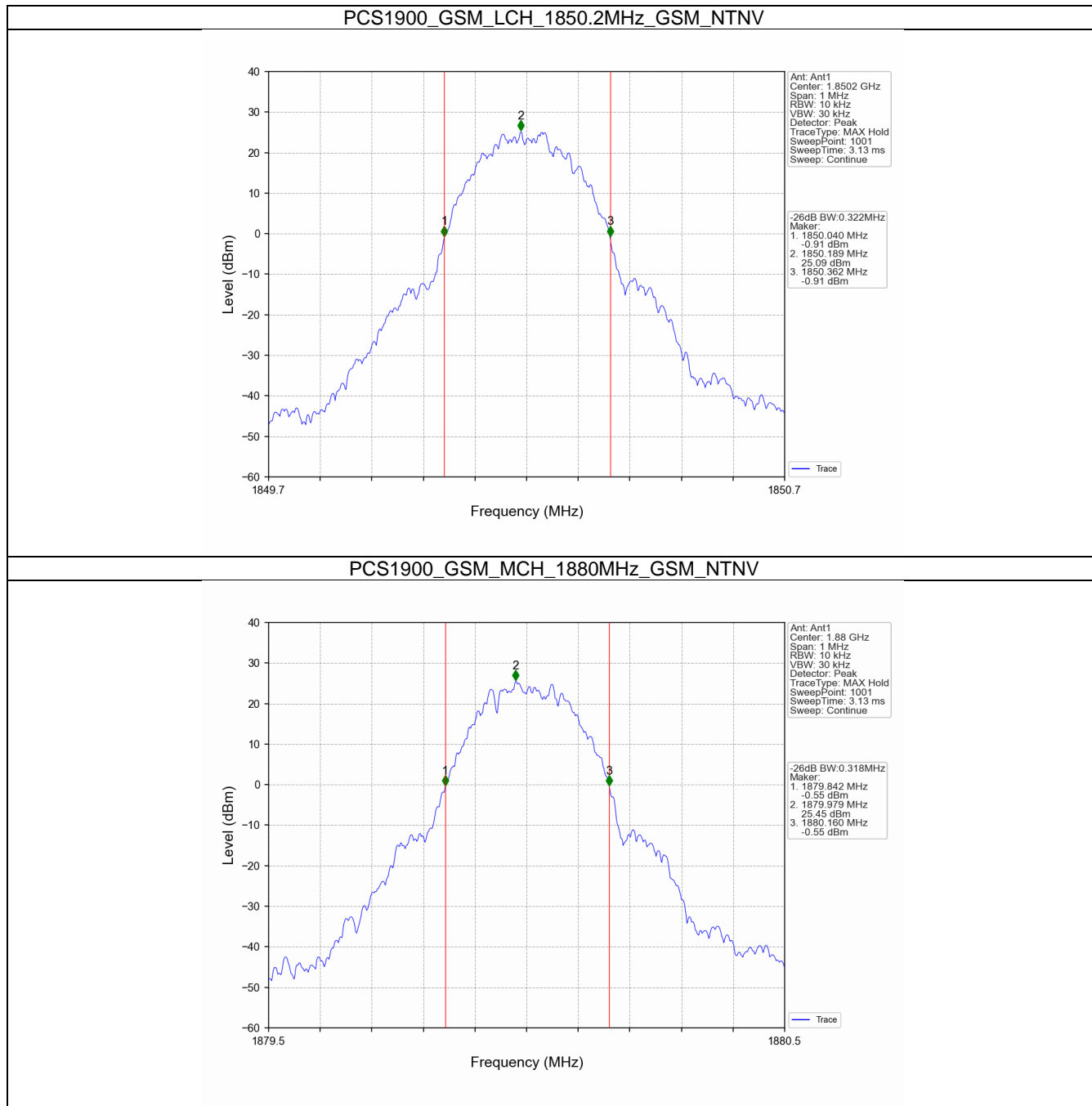
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## 4.2.2 Test Graph



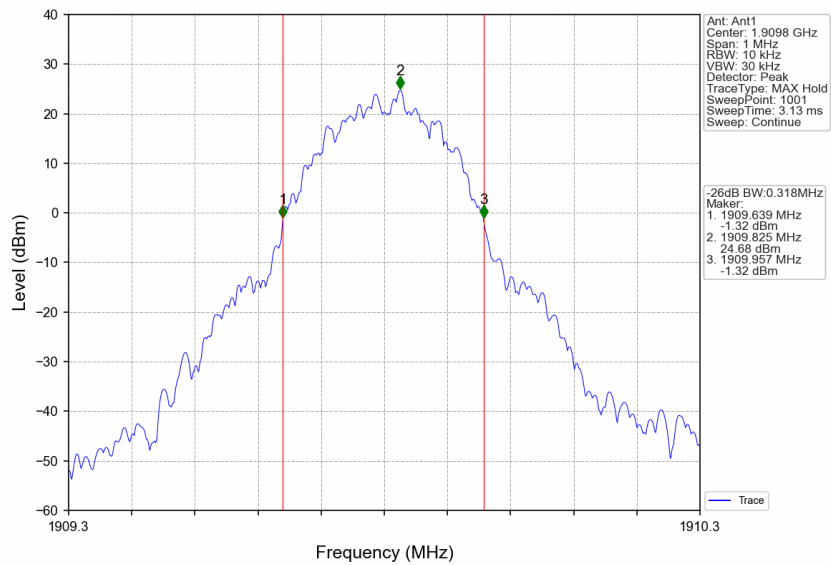
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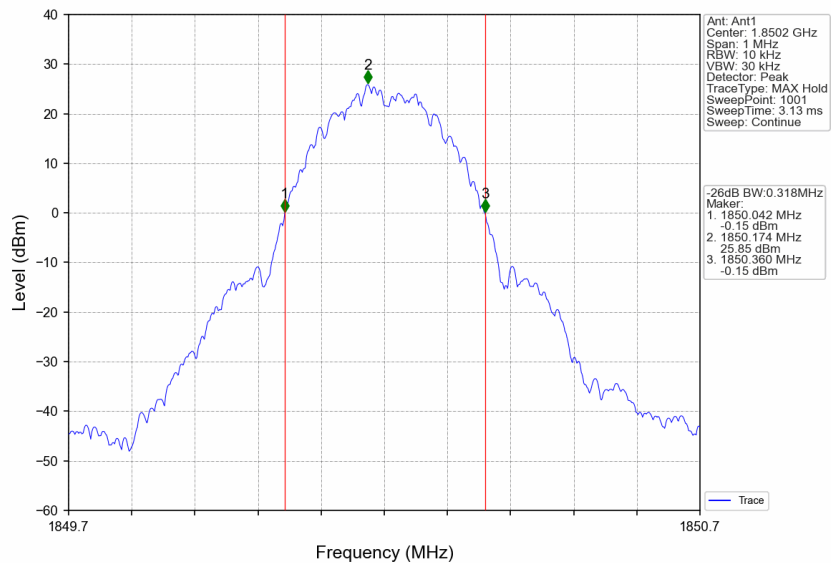
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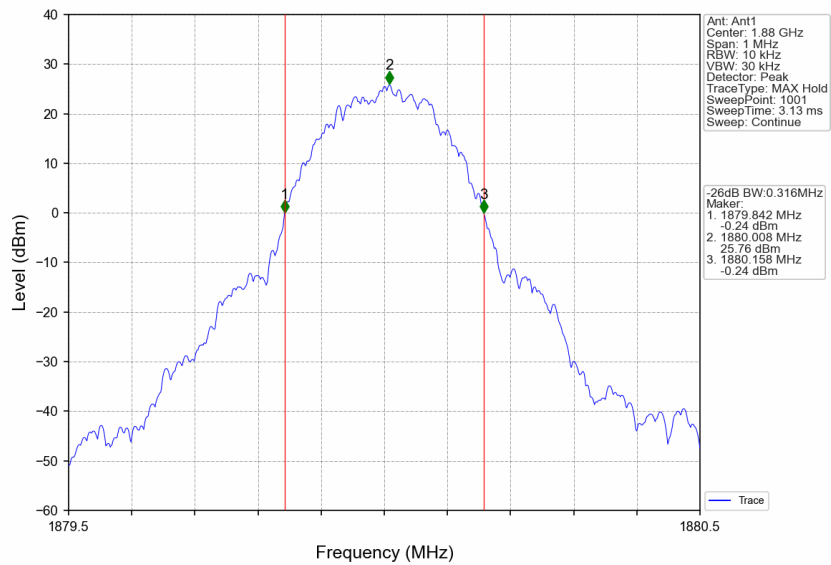
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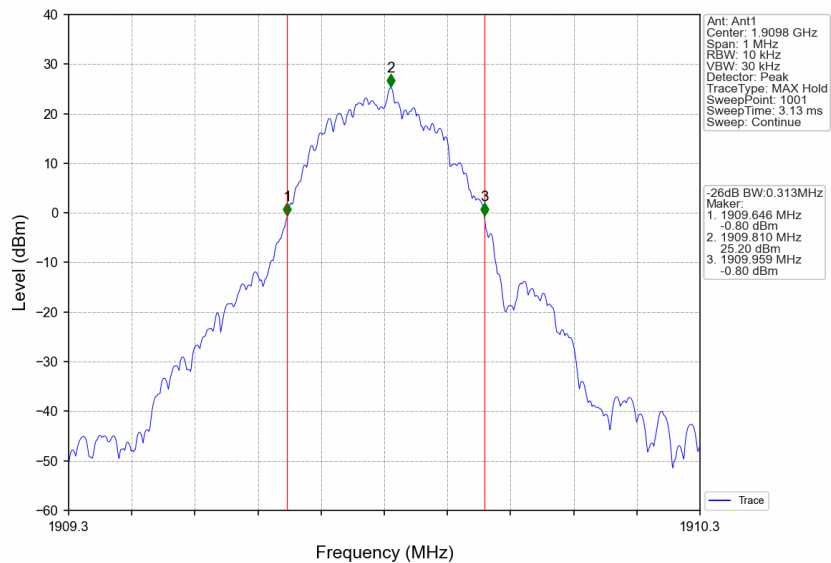


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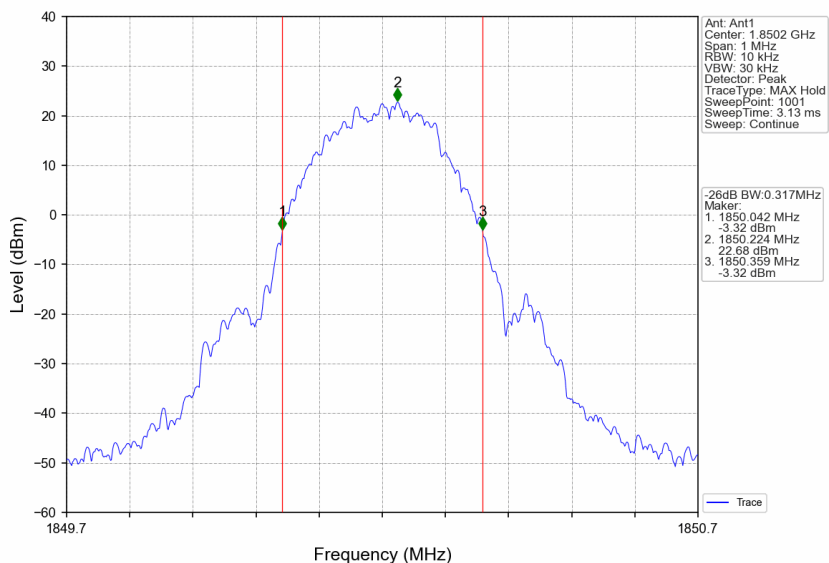
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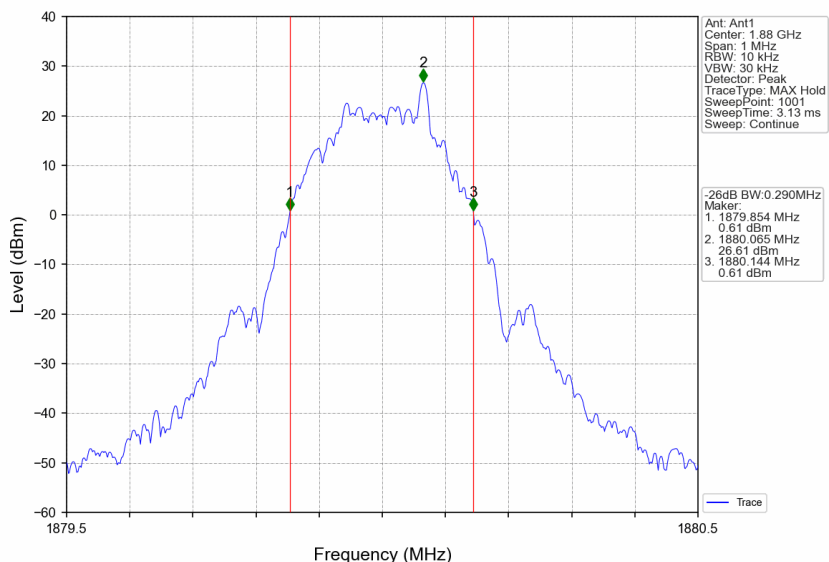
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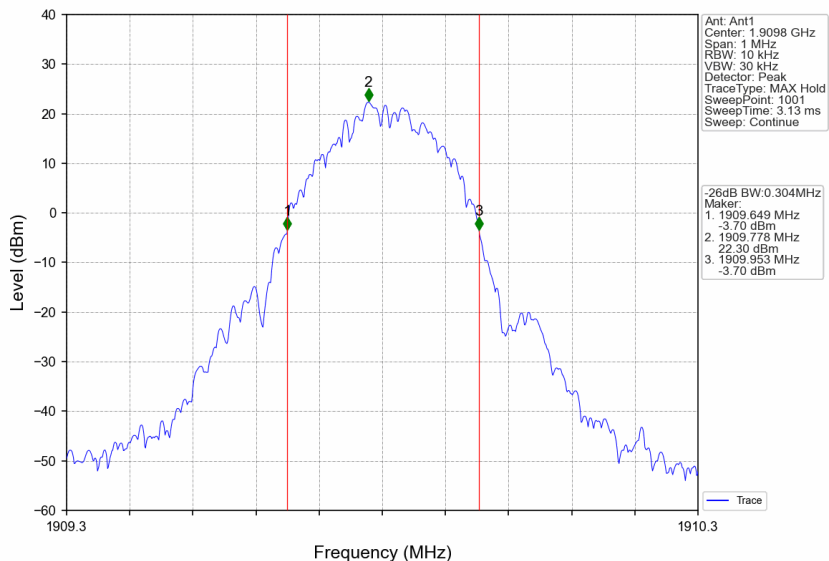
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## 5. Peak-Average Ratio

### 5.1 PCS1900

#### 5.1.1 Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	9.57	<=13	Pass
			1880	9.46	<=13	Pass
			1909.8	9.33	<=13	Pass
	GPRS	4 TX Slots	1850.2	9.77	<=13	Pass
			1880	3.55	<=13	Pass
			1909.8	3.51	<=13	Pass
	EGPRS	4 TX Slots	1850.2	12.23	<=13	Pass
			1880	7.75	<=13	Pass
			1909.8	6.98	<=13	Pass



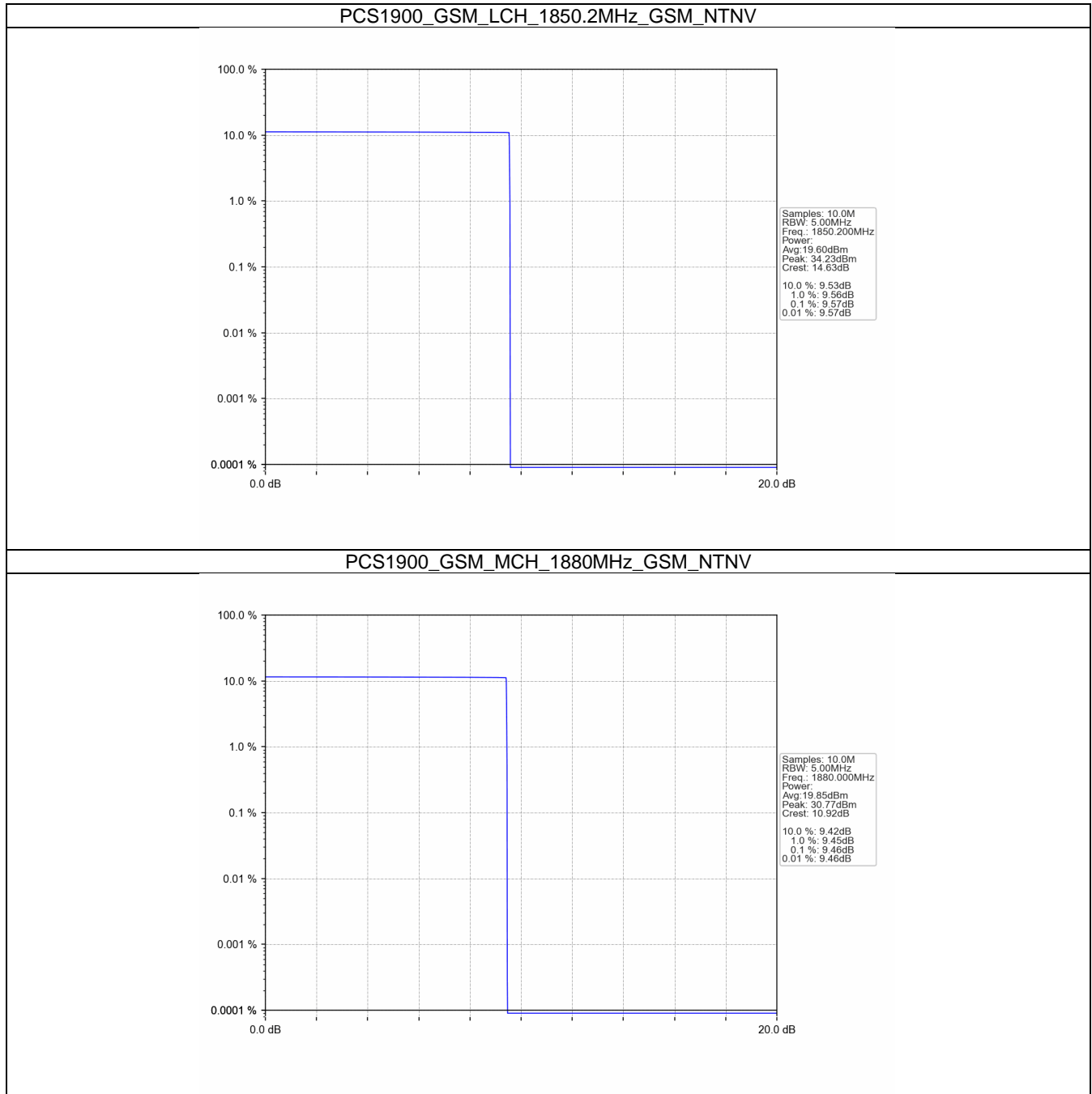
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5.1.2 Test Graph



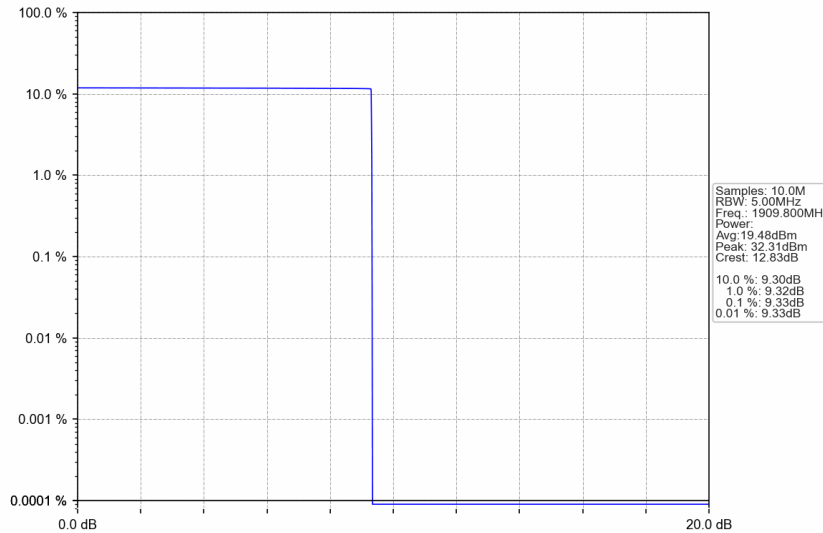
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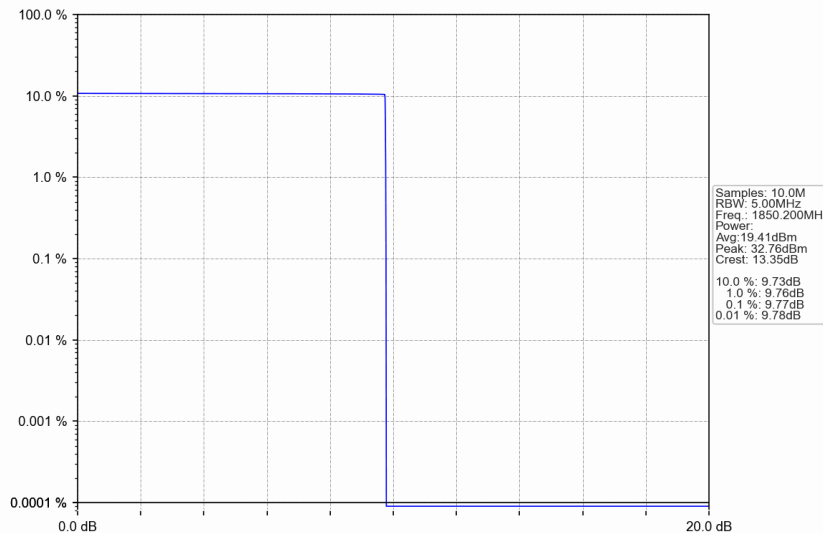
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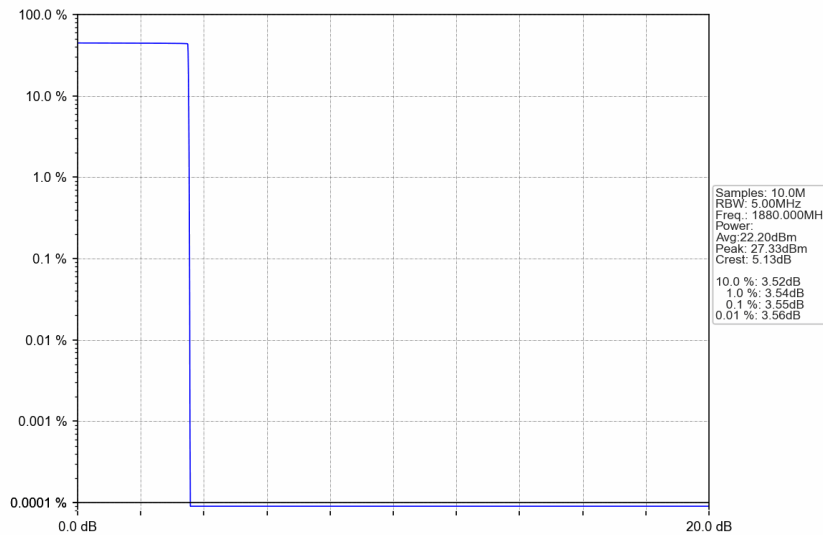
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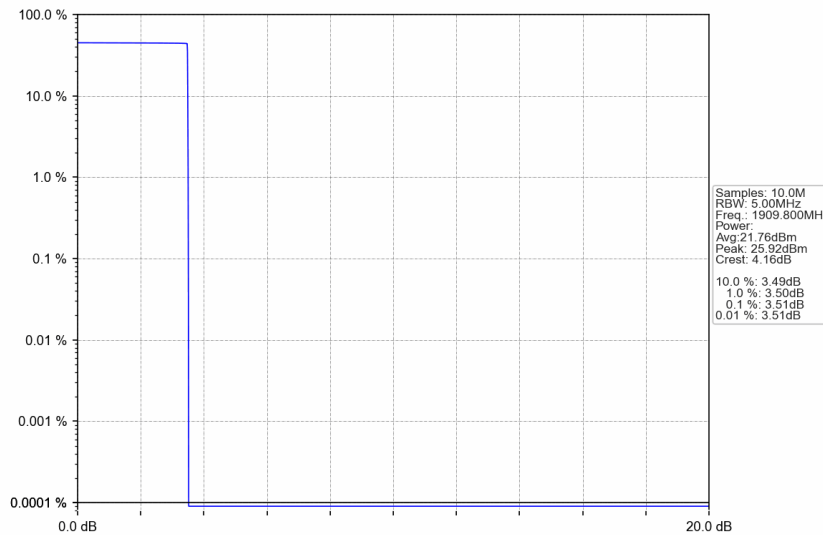
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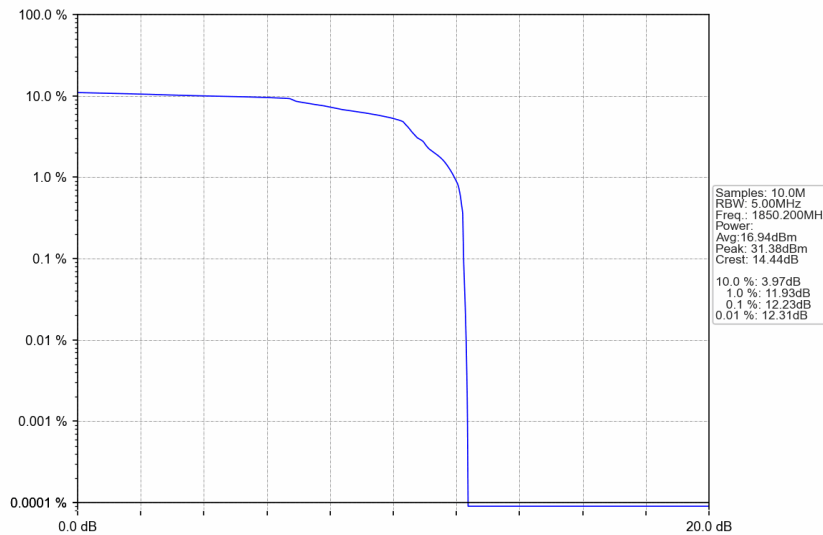
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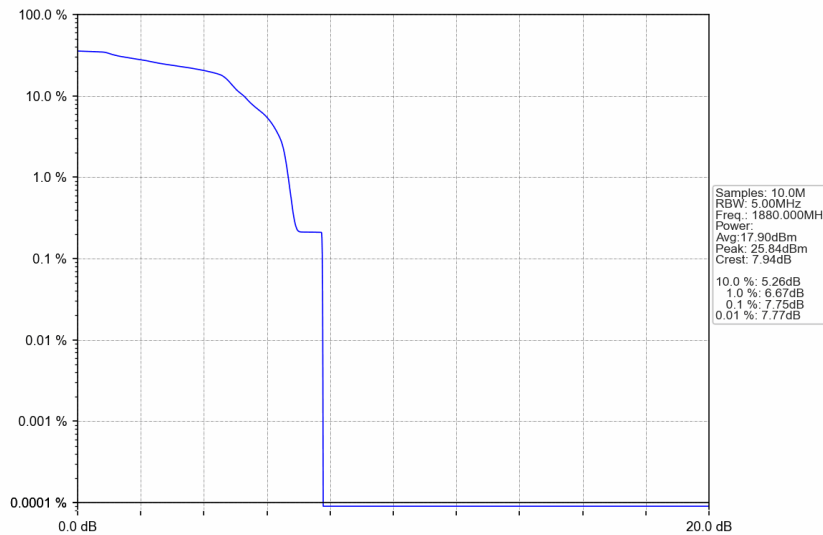
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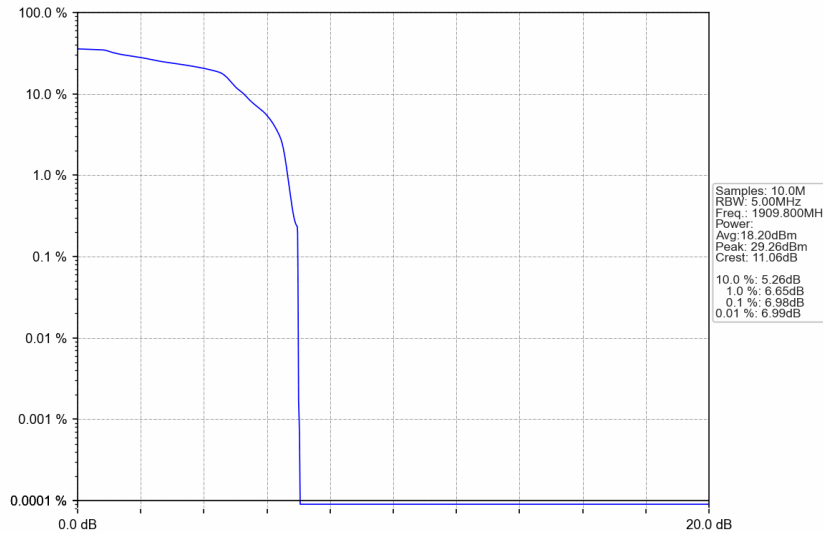
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## 6. Spurious Emission

### 6.1 PCS1900

#### 6.1.1 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



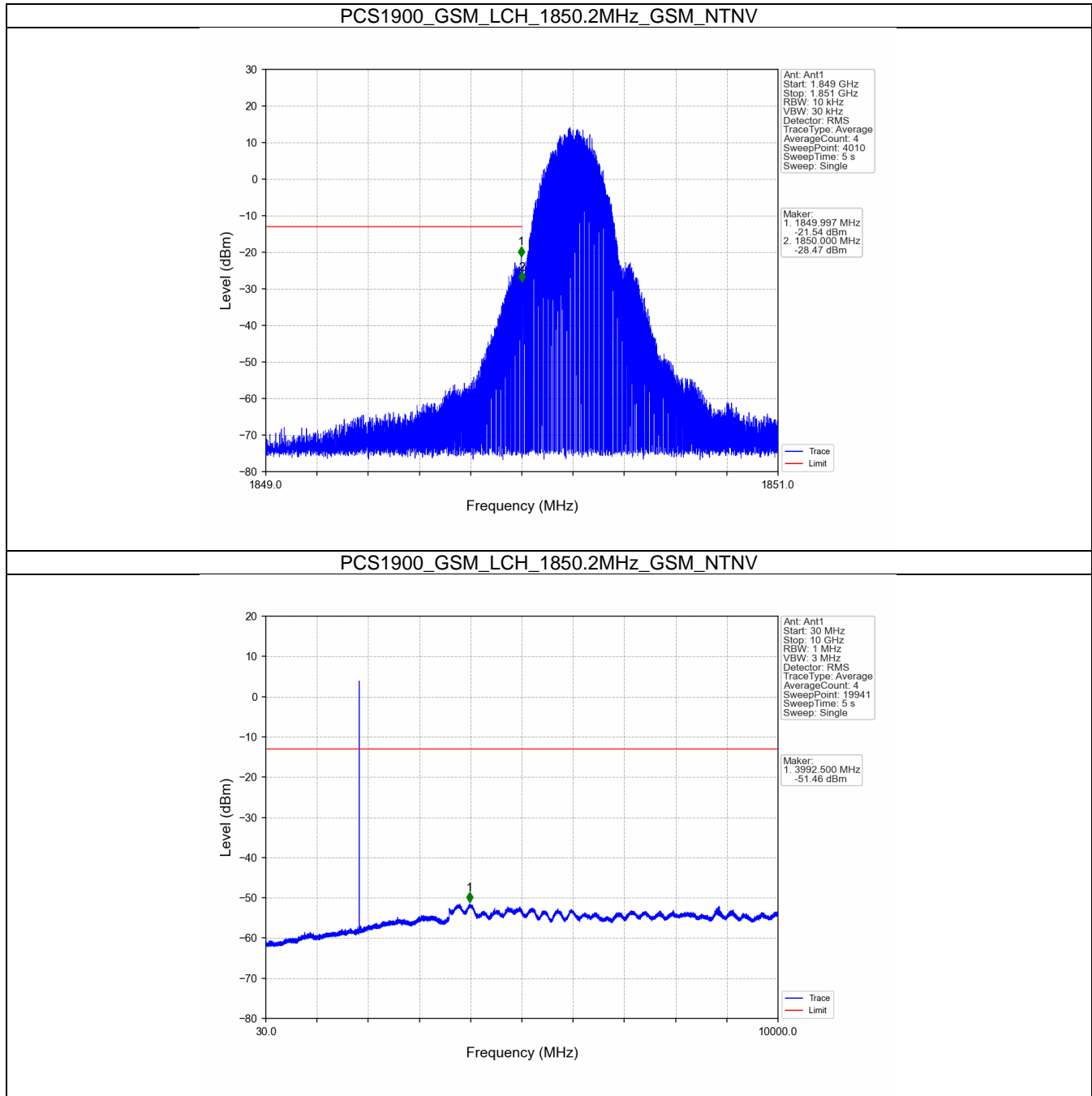
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6.1.2 Test Graph



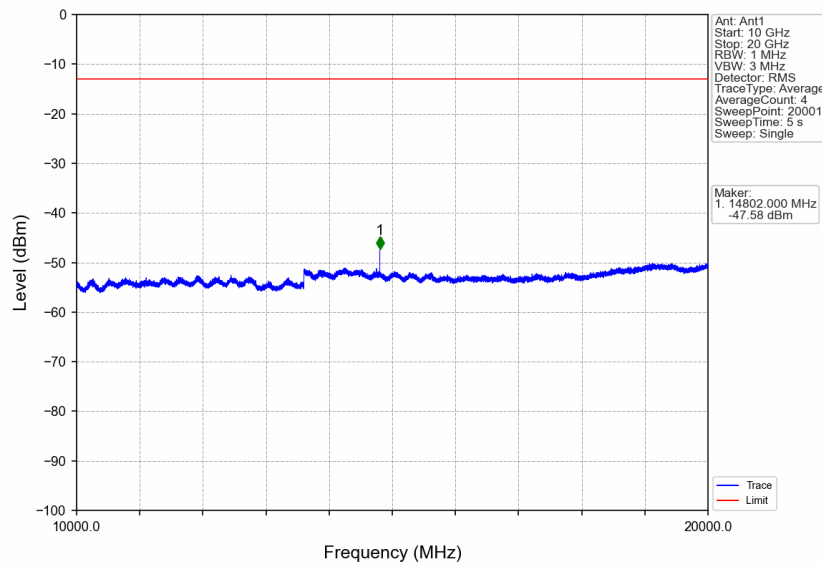
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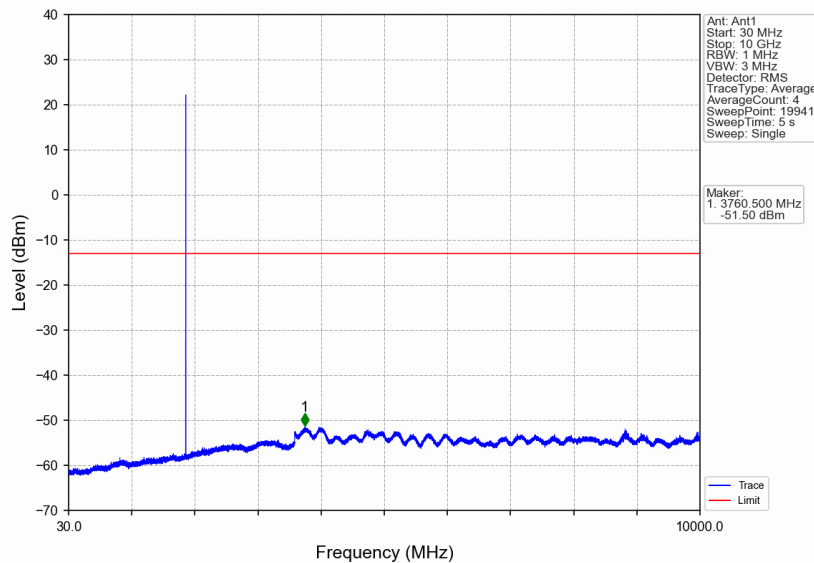
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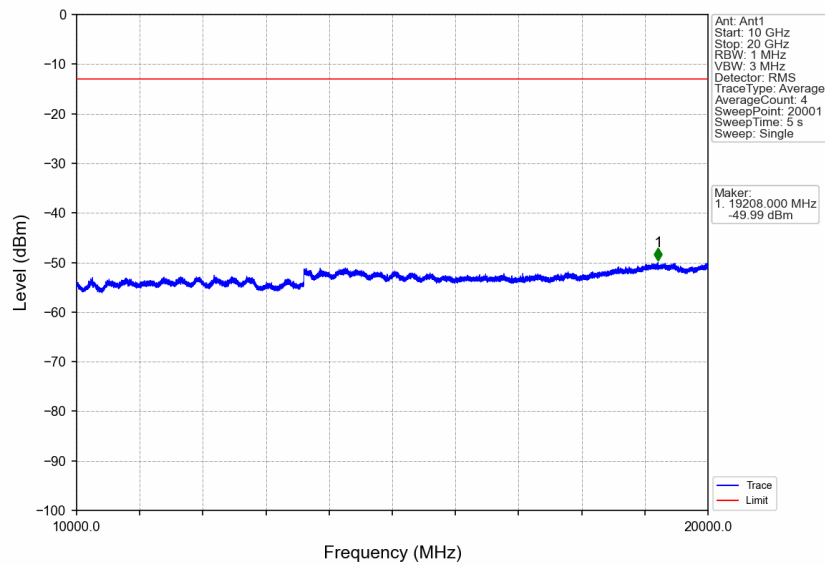
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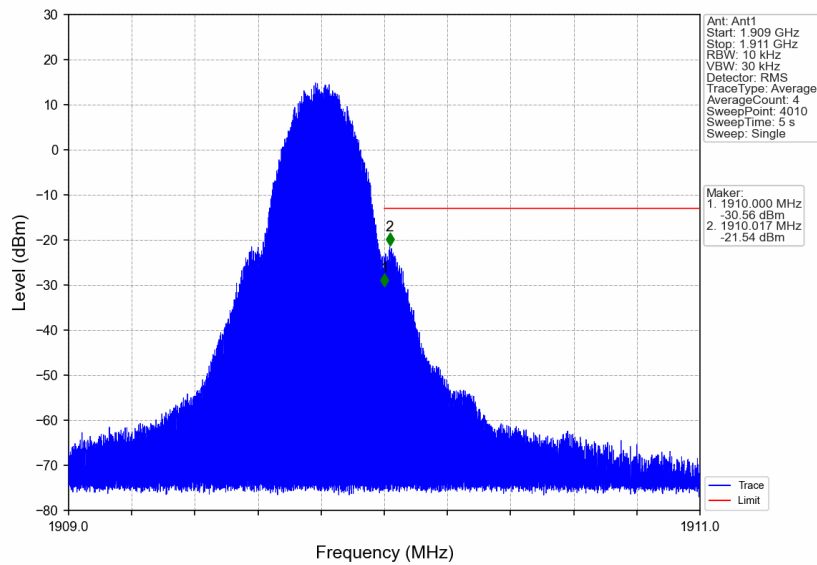
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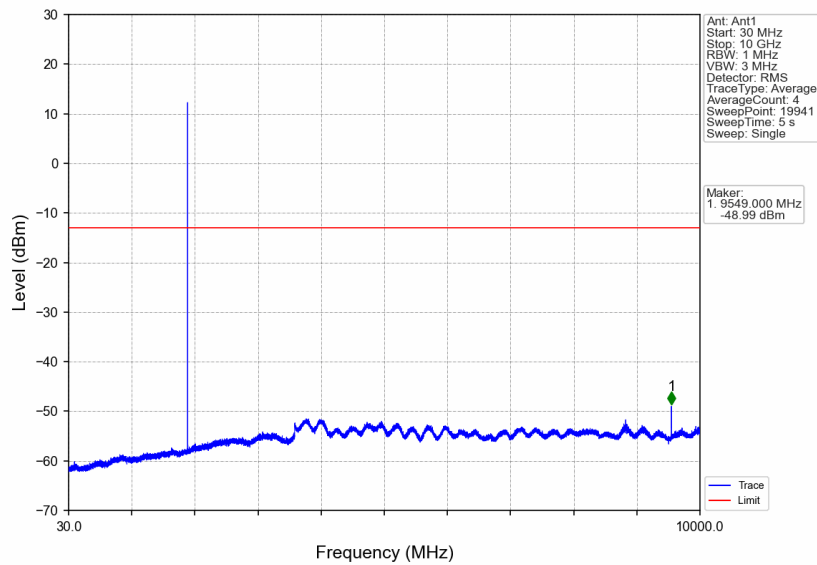
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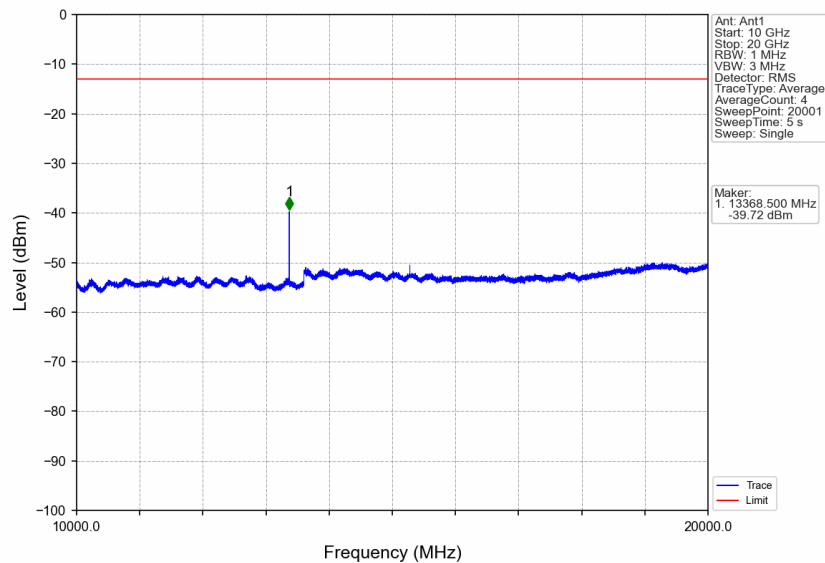
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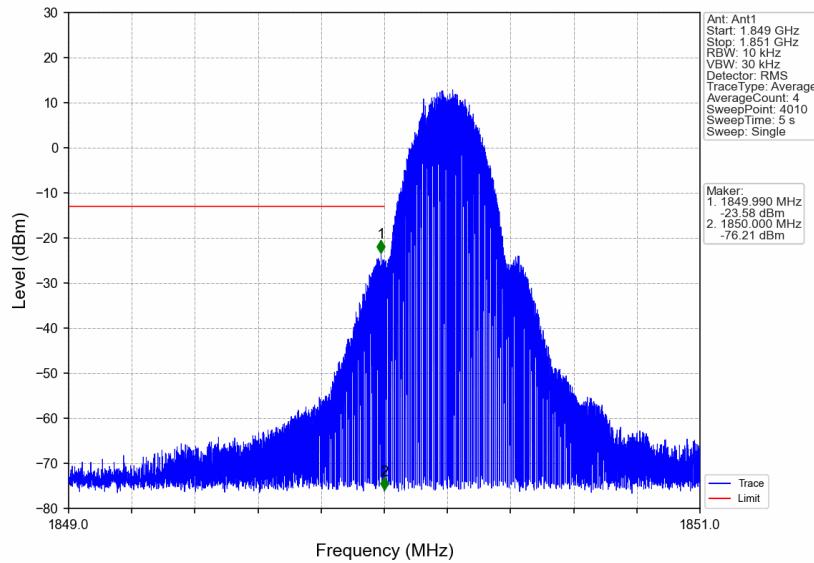
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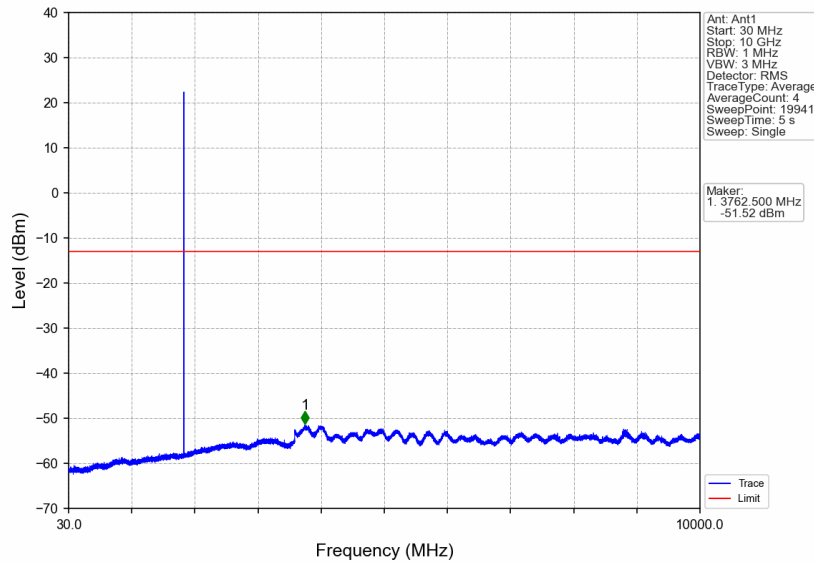
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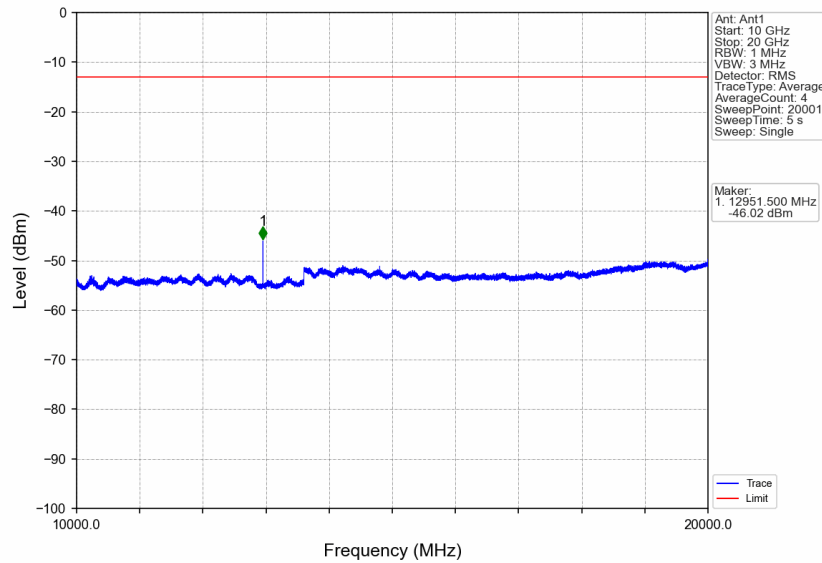
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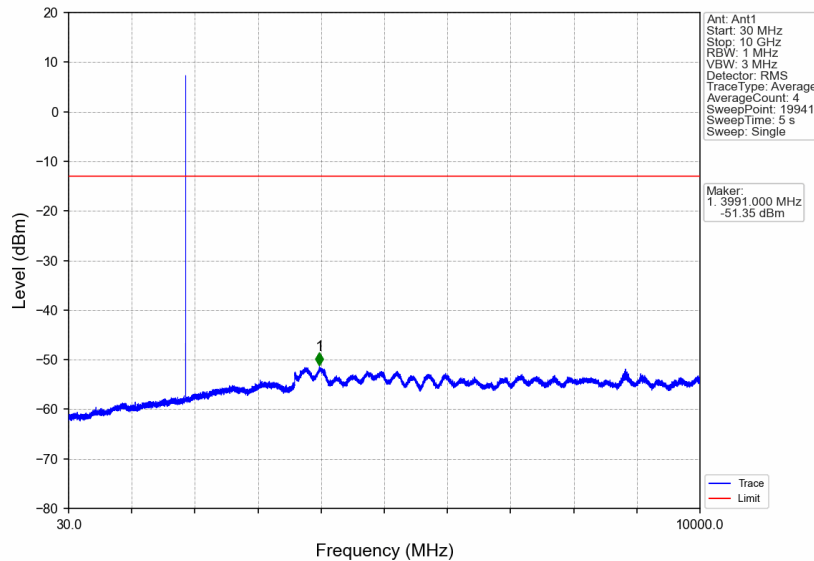
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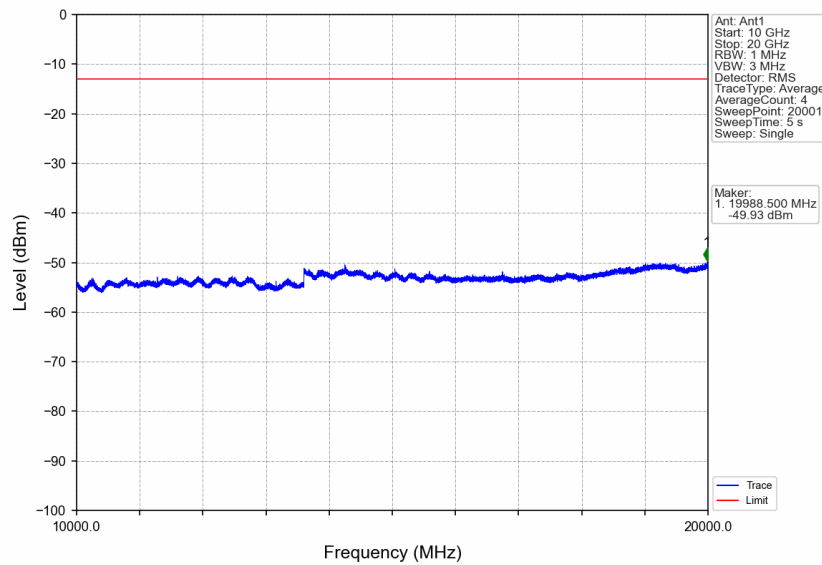
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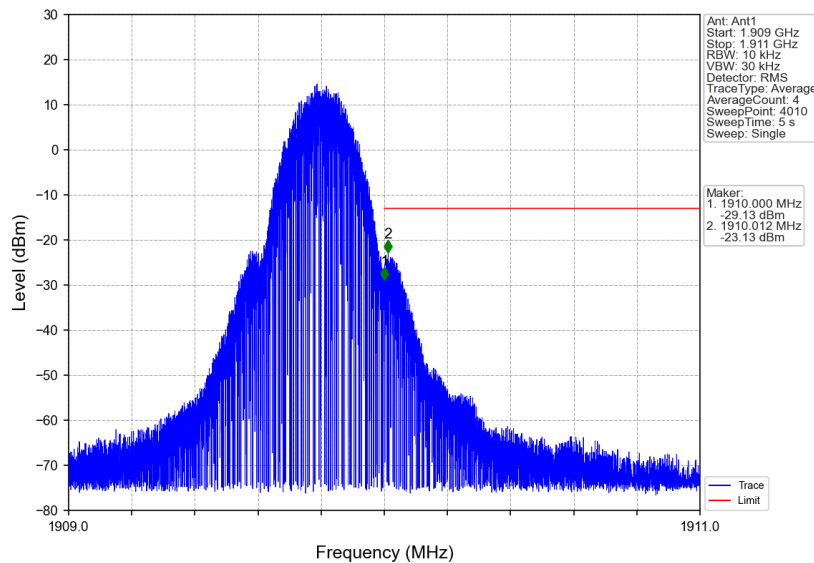
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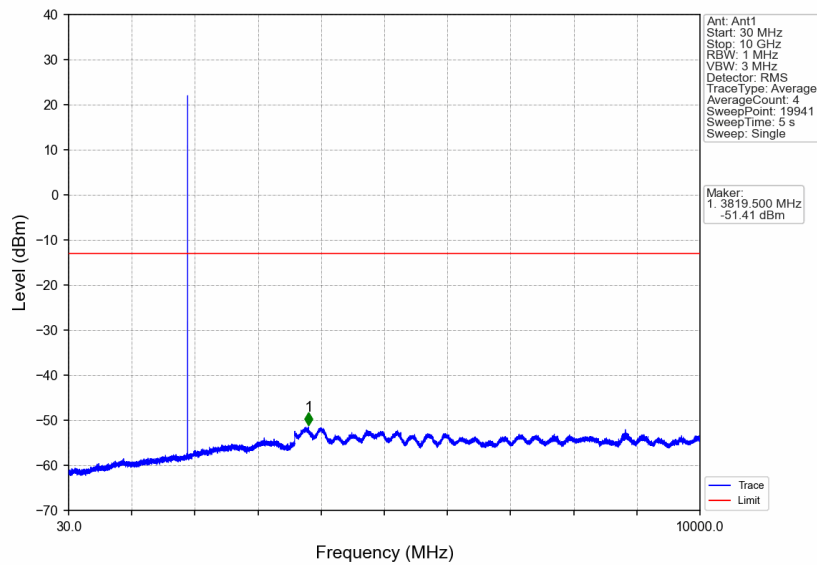
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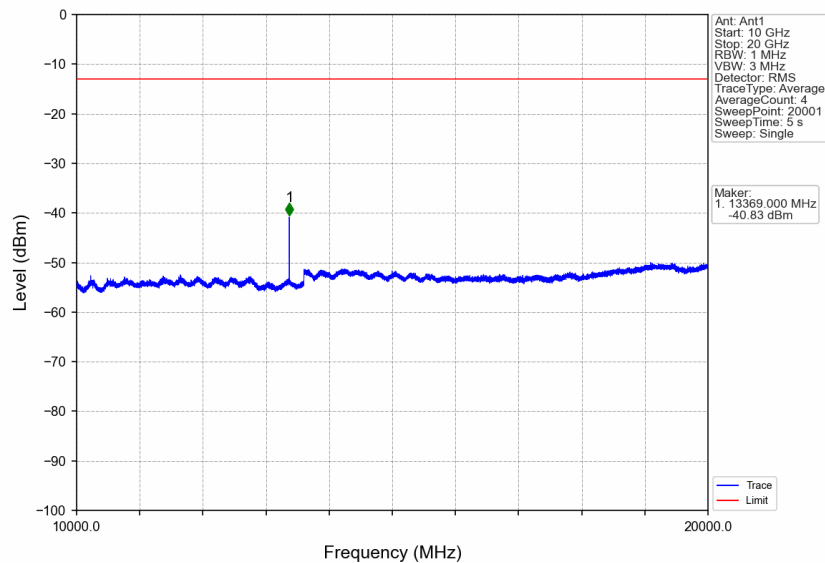
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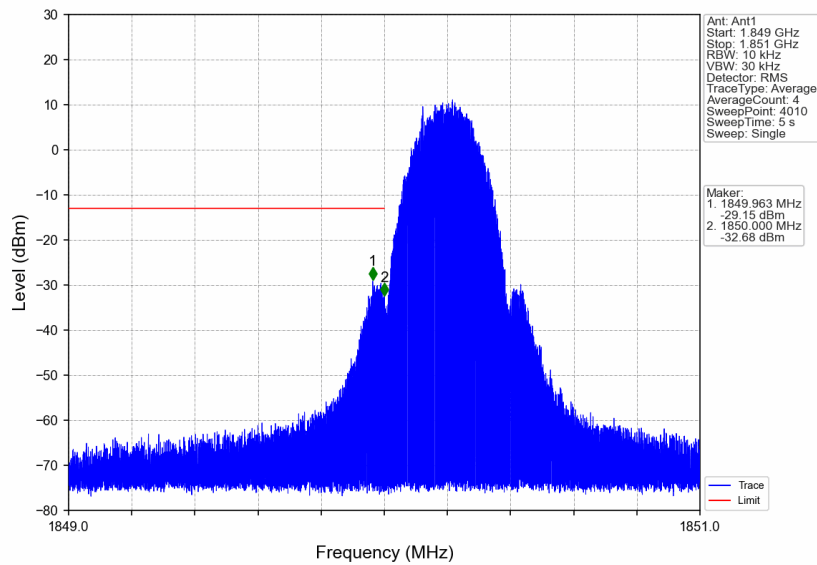
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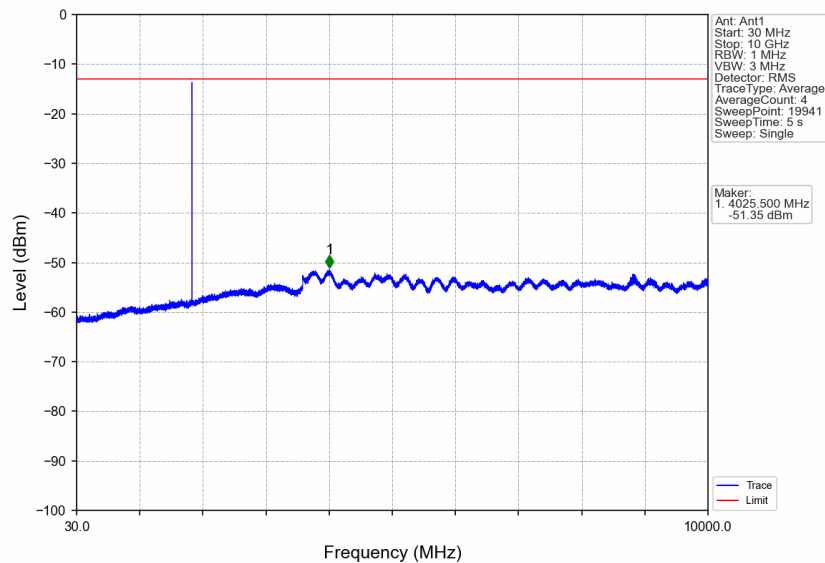
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PCS1900\_EGPRS\_LCH\_1850.2MHz\_1 TX Slot\_NTNV



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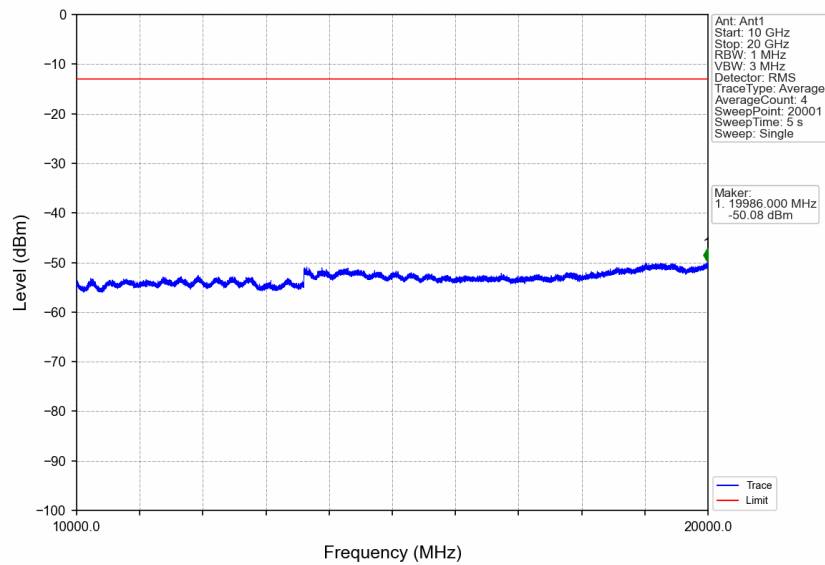
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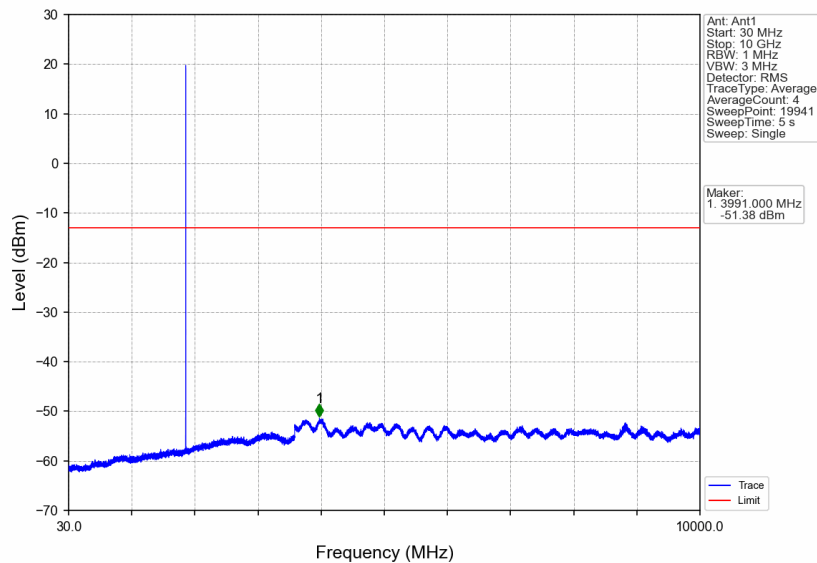


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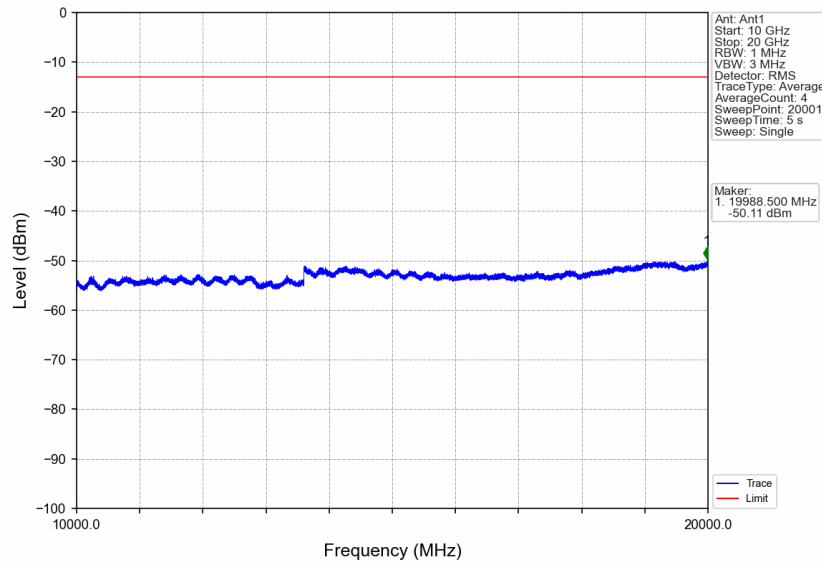


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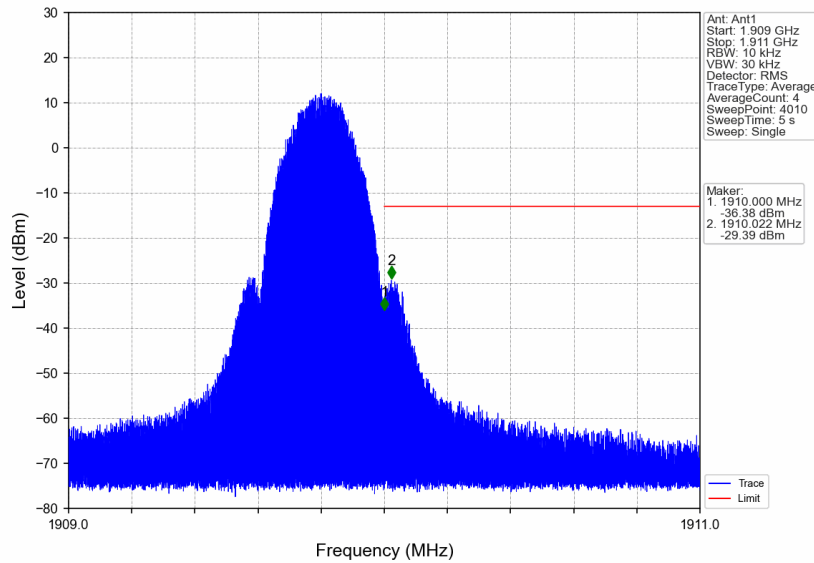
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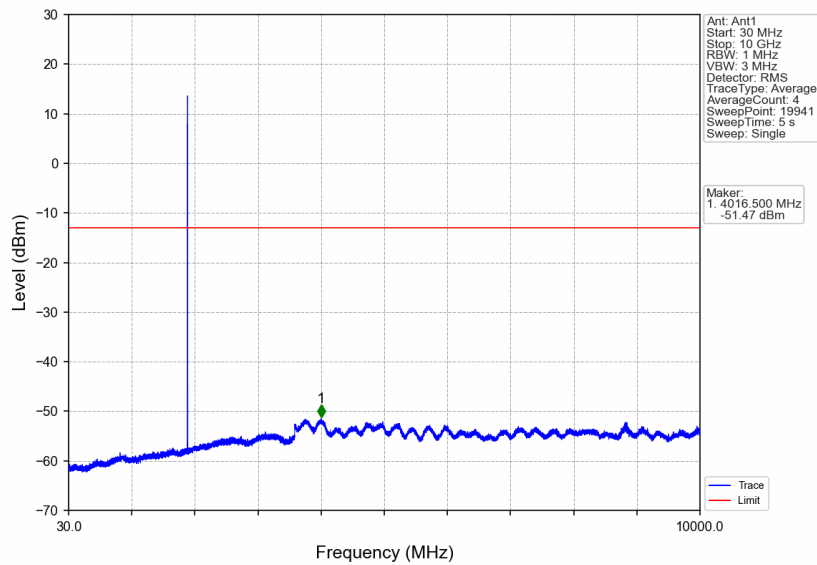
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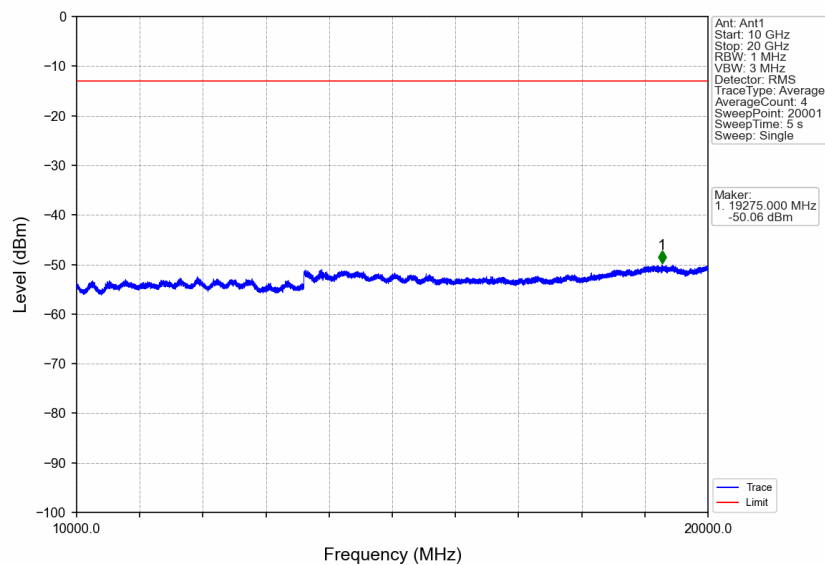
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