

Appendix B for KSCR220500071001-PCS 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	GPRS	1 TX Slot	1850.2	26.36	-2.26	24.10	<=33.01	Pass	
		2 TX Slots	1850.2	26.21	-2.26	23.95	<=33.01	Pass	
		3 TX Slots	1850.2	26.01	-2.26	23.75	<=33.01	Pass	
		4 TX Slots	1850.2	25.76	-2.26	23.50	<=33.01	Pass	
		1 TX Slot	1880	26.54	-2.26	24.28	<=33.01	Pass	
		2 TX Slots	1880	26.53	-2.26	24.27	<=33.01	Pass	
		3 TX Slots	1880	26.34	-2.26	24.08	<=33.01	Pass	
		4 TX Slots	1880	26.13	-2.26	23.87	<=33.01	Pass	
		1 TX Slot	1909.8	26.45	-2.26	24.19	<=33.01	Pass	
		2 TX Slots	1909.8	26.39	-2.26	24.13	<=33.01	Pass	
		3 TX Slots	1909.8	26.21	-2.26	23.95	<=33.01	Pass	
		4 TX Slots	1909.8	25.98	-2.26	23.72	<=33.01	Pass	
		EGPRS	1 TX Slot	1850.2	21.57	-2.26	19.31	<=33.01	Pass
			2 TX Slots	1850.2	21.35	-2.26	19.09	<=33.01	Pass
			3 TX Slots	1850.2	21.34	-2.26	19.08	<=33.01	Pass
			4 TX Slots	1850.2	21.16	-2.26	18.90	<=33.01	Pass
	1 TX Slot		1880	21.92	-2.26	19.66	<=33.01	Pass	
	2 TX Slots		1880	21.93	-2.26	19.67	<=33.01	Pass	
	3 TX Slots		1880	21.69	-2.26	19.43	<=33.01	Pass	
	4 TX Slots		1880	21.44	-2.26	19.18	<=33.01	Pass	
	1 TX Slot		1909.8	21.97	-2.26	19.71	<=33.01	Pass	
	2 TX Slots		1909.8	21.83	-2.26	19.57	<=33.01	Pass	
	3 TX Slots		1909.8	21.72	-2.26	19.46	<=33.01	Pass	
	4 TX Slots		1909.8	21.55	-2.26	19.29	<=33.01	Pass	

Note1: EIRP=Conducted Power+Antenna Gain



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## 2. Frequency Stability

### 2.1 PCS1900

#### 2.1.1 Test Result

Band: PCS1900								
Network	Frequency (MHz)	Temp. (°C)	Voltage (VAC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
					Result	Limit		
GPRS	1850.2	20	102	-6.787	-0.0037	-2.5 to 2.5	Pass	
			120	-4.672	-0.0025	-2.5 to 2.5	Pass	
			138	-4.768	-0.0026	-2.5 to 2.5	Pass	
		0	120	-6.959	-0.0038	-2.5 to 2.5	Pass	
		10	120	-11.745	-0.0063	-2.5 to 2.5	Pass	
		30	120	-6.003	-0.0032	-2.5 to 2.5	Pass	
		40	120	-7.122	-0.0038	-2.5 to 2.5	Pass	
	45	120	-11.350	-0.0061	-2.5 to 2.5	Pass		
	1880	20	102	-11.976	-0.0064	-2.5 to 2.5	Pass	
			120	-5.099	-0.0027	-2.5 to 2.5	Pass	
			138	-8.689	-0.0046	-2.5 to 2.5	Pass	
		0	120	-5.997	-0.0032	-2.5 to 2.5	Pass	
		10	120	-7.174	-0.0038	-2.5 to 2.5	Pass	
		30	120	-6.223	-0.0033	-2.5 to 2.5	Pass	
		40	120	-12.483	-0.0066	-2.5 to 2.5	Pass	
	45	120	-9.467	-0.0050	-2.5 to 2.5	Pass		
	1909.8	20	102	-11.549	-0.0060	-2.5 to 2.5	Pass	
			120	-18.336	-0.0096	-2.5 to 2.5	Pass	
			138	-21.343	-0.0112	-2.5 to 2.5	Pass	
		0	120	-16.246	-0.0085	-2.5 to 2.5	Pass	
		10	120	-21.521	-0.0113	-2.5 to 2.5	Pass	
		30	120	-21.820	-0.0114	-2.5 to 2.5	Pass	
		40	120	-13.829	-0.0072	-2.5 to 2.5	Pass	
	45	120	-17.655	-0.0092	-2.5 to 2.5	Pass		
	EGPRS	1850.2	20	102	-16.968	-0.0092	-2.5 to 2.5	Pass
				120	-15.029	-0.0081	-2.5 to 2.5	Pass
				138	-14.004	-0.0076	-2.5 to 2.5	Pass
0			120	-16.870	-0.0091	-2.5 to 2.5	Pass	
10			120	-15.200	-0.0082	-2.5 to 2.5	Pass	
30			120	-13.136	-0.0071	-2.5 to 2.5	Pass	
40			120	-15.797	-0.0085	-2.5 to 2.5	Pass	
45		120	-22.192	-0.0120	-2.5 to 2.5	Pass		
1880		20	102	-16.124	-0.0086	-2.5 to 2.5	Pass	
			120	-11.538	-0.0061	-2.5 to 2.5	Pass	
			138	-14.556	-0.0077	-2.5 to 2.5	Pass	
		0	120	-12.074	-0.0064	-2.5 to 2.5	Pass	
		10	120	-13.711	-0.0073	-2.5 to 2.5	Pass	
		30	120	-7.711	-0.0041	-2.5 to 2.5	Pass	
		40	120	-7.162	-0.0038	-2.5 to 2.5	Pass	
		45	120	-6.552	-0.0035	-2.5 to 2.5	Pass	



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	1909.8	20	102	-5.407	-0.0028	-2.5 to 2.5	Pass
			120	-16.378	-0.0086	-2.5 to 2.5	Pass
			138	-17.255	-0.0090	-2.5 to 2.5	Pass
		0	120	-15.849	-0.0083	-2.5 to 2.5	Pass
		10	120	-20.642	-0.0108	-2.5 to 2.5	Pass
		30	120	-19.953	-0.0104	-2.5 to 2.5	Pass
		40	120	-17.683	-0.0093	-2.5 to 2.5	Pass
		45	120	-16.675	-0.0087	-2.5 to 2.5	Pass

### 3. Modulation Characteristics

#### 3.1 PCS1900

##### 3.1.1 Test Result

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

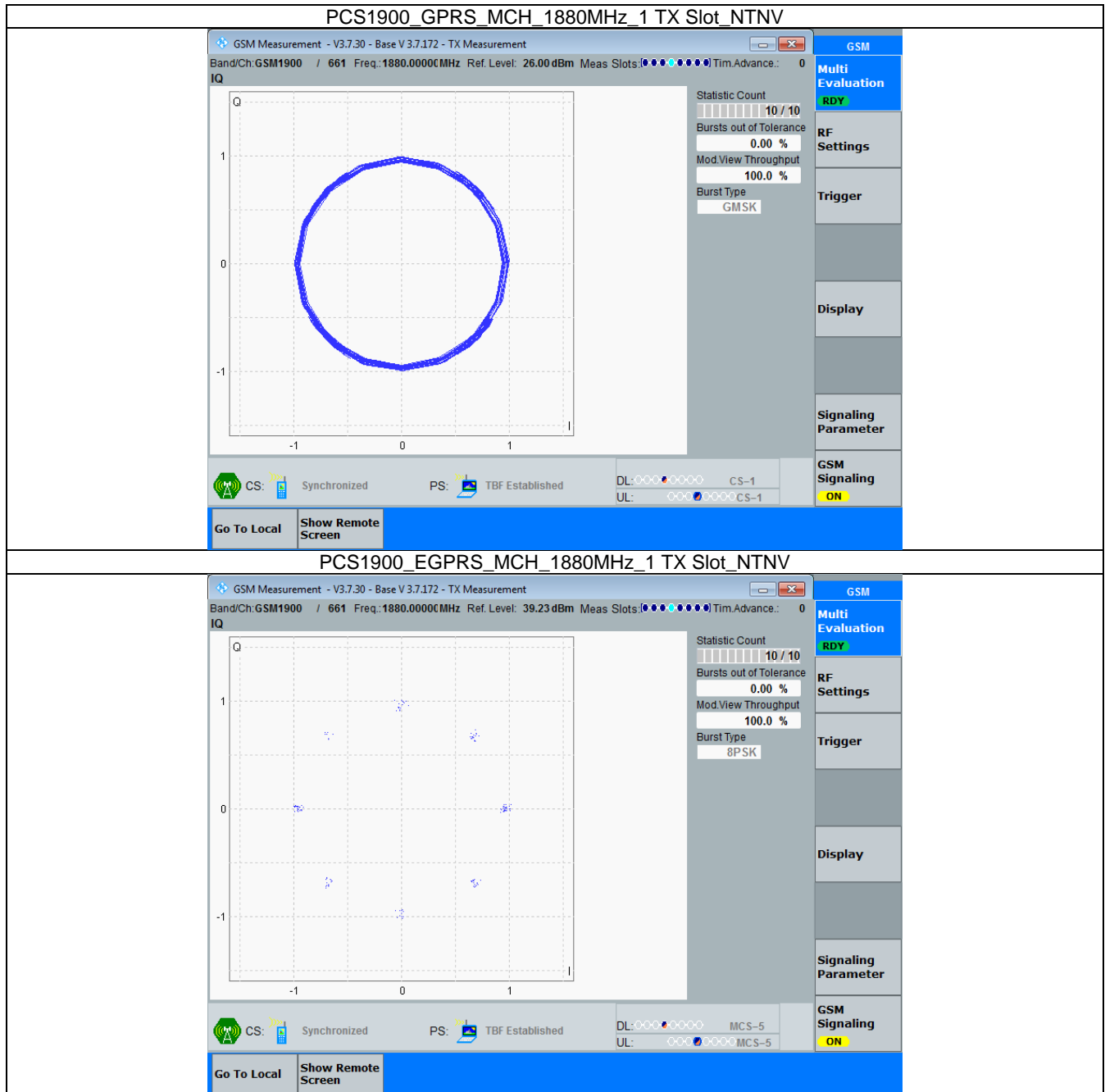


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3.1.2 Test Graph



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4. 99% & 26dB Bandwidth

4.1 PCS1900\_OBW

4.1.1 Test Result

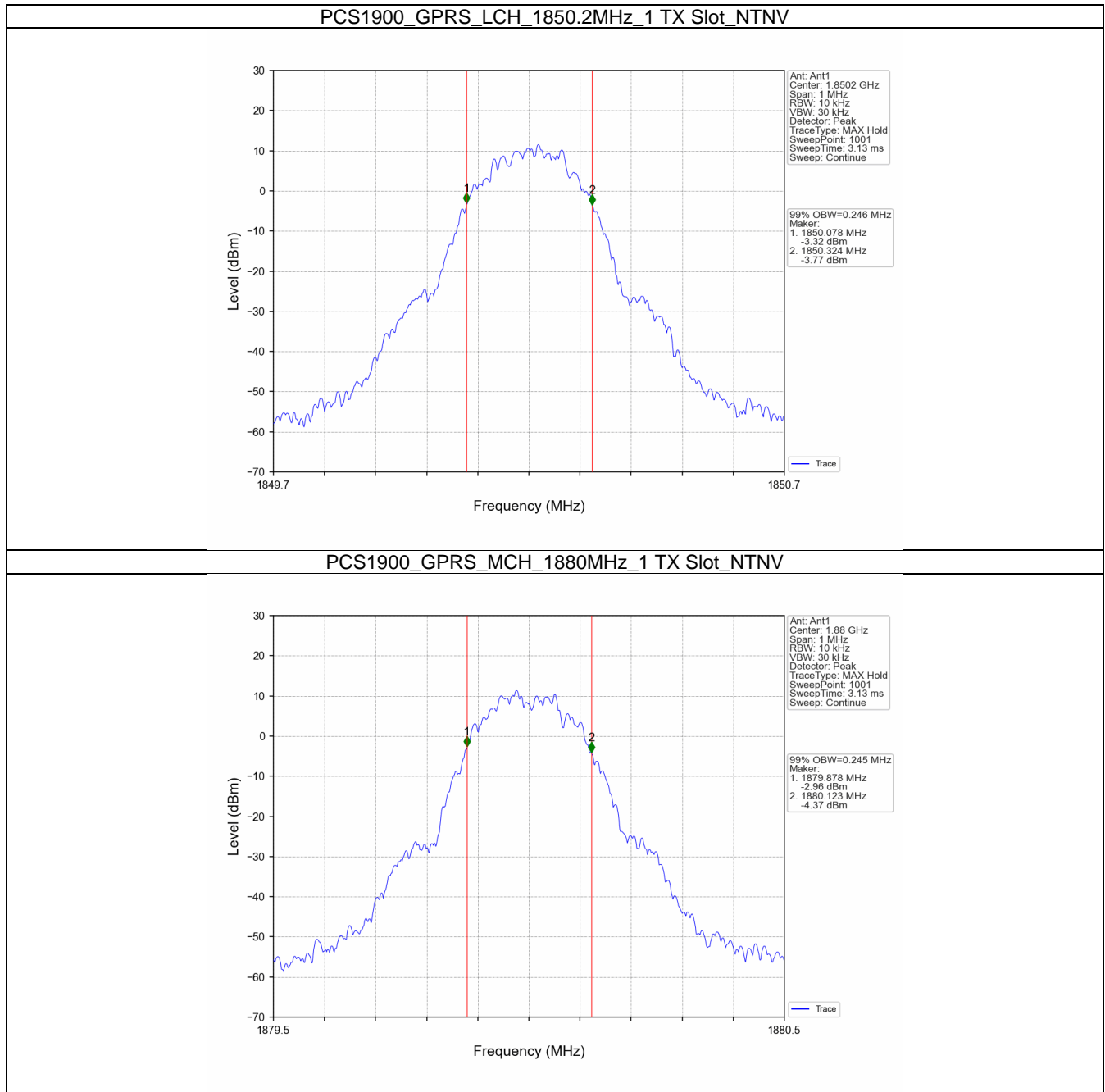
Band: PCS1900					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GPRS	1 TX Slot	1850.2	0.246	Pass
			1880	0.245	Pass
			1909.8	0.249	Pass
	EGPRS	1 TX Slot	1850.2	0.248	Pass
			1880	0.248	Pass
			1909.8	0.241	Pass



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4.1.2 Test Graph



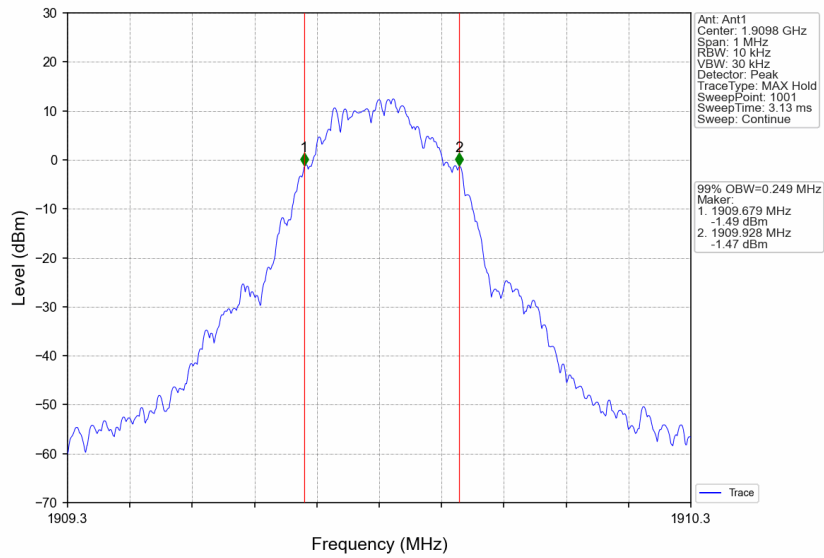
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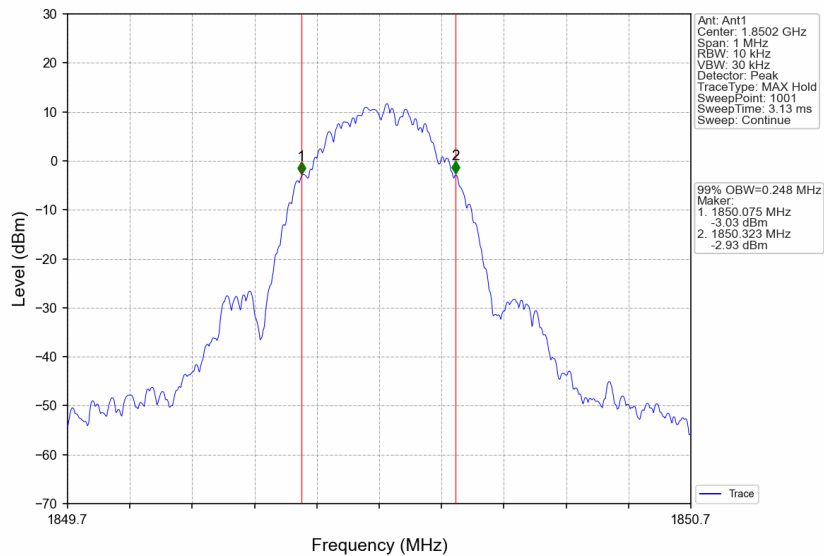
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PCS1900\_GPRS\_HCH\_1909.8MHz\_1 TX Slot\_NTNV



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

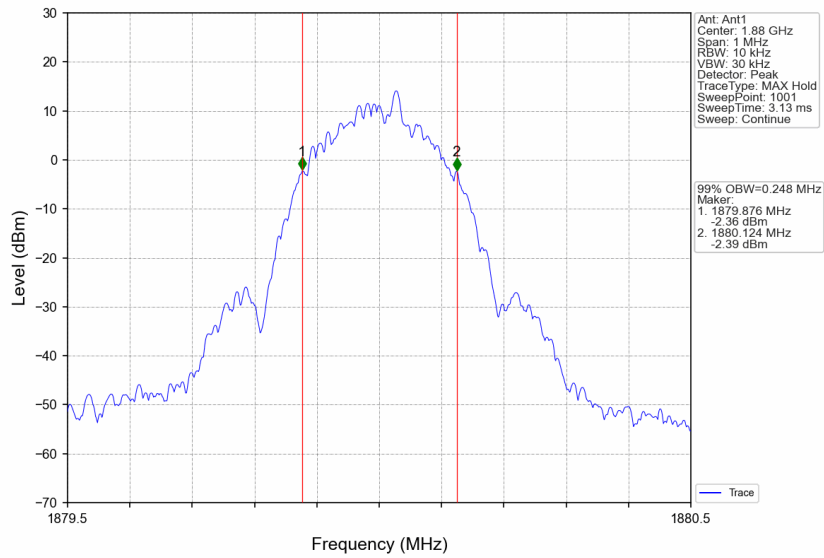


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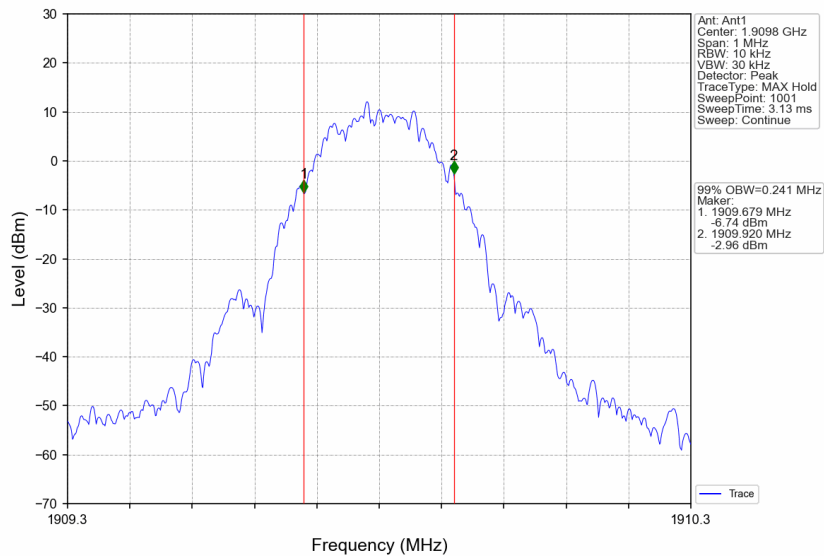
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PCS1900\_EGPRS\_MCH\_1880MHz\_1 TX Slot\_NTNV



PCS1900\_EGPRS\_HCH\_1909.8MHz\_1 TX Slot\_NTNV



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4.2 PCS1900\_XDB

4.2.1 Test Result

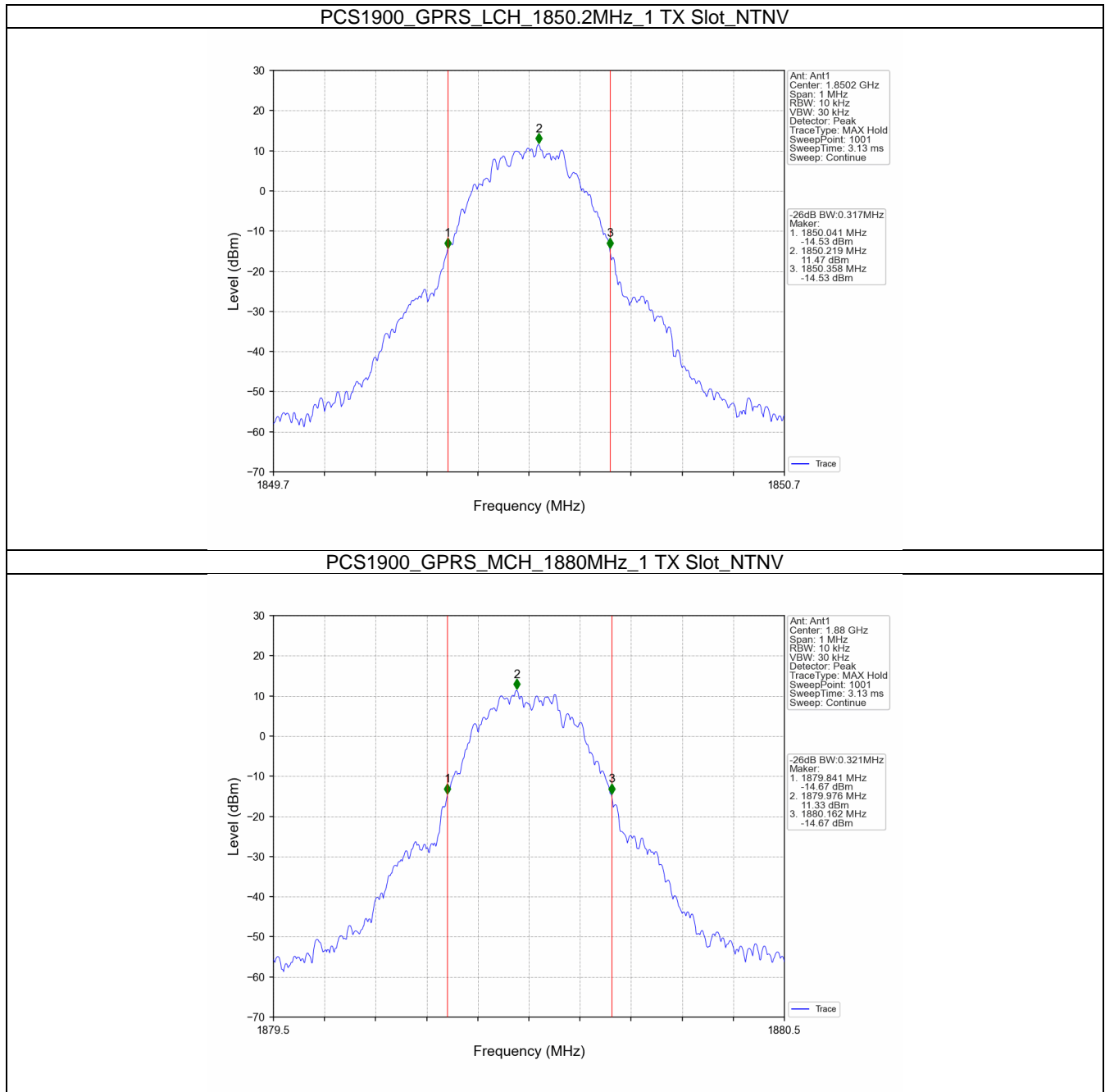
Band: PCS1900					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GPRS	1 TX Slot	1850.2	0.317	Pass
			1880	0.321	Pass
			1909.8	0.317	Pass
	EGPRS	1 TX Slot	1850.2	0.314	Pass
			1880	0.299	Pass
			1909.8	0.318	Pass



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## 4.2.2 Test Graph



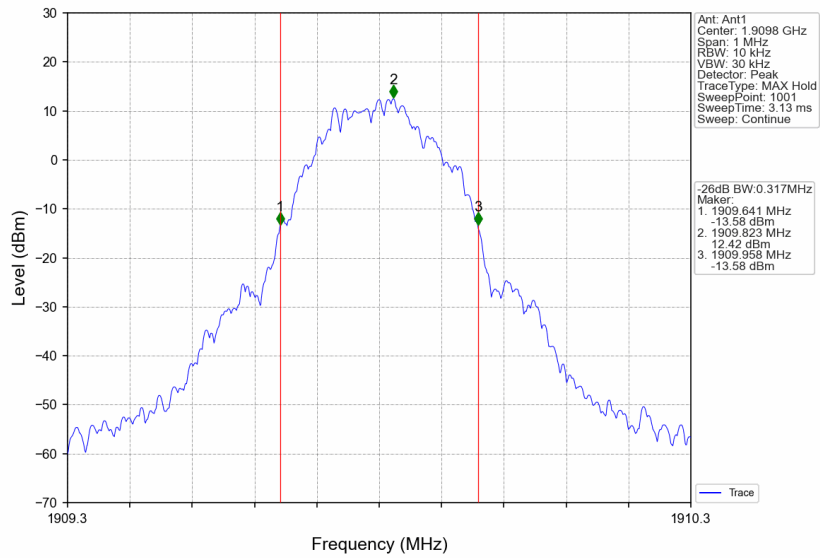
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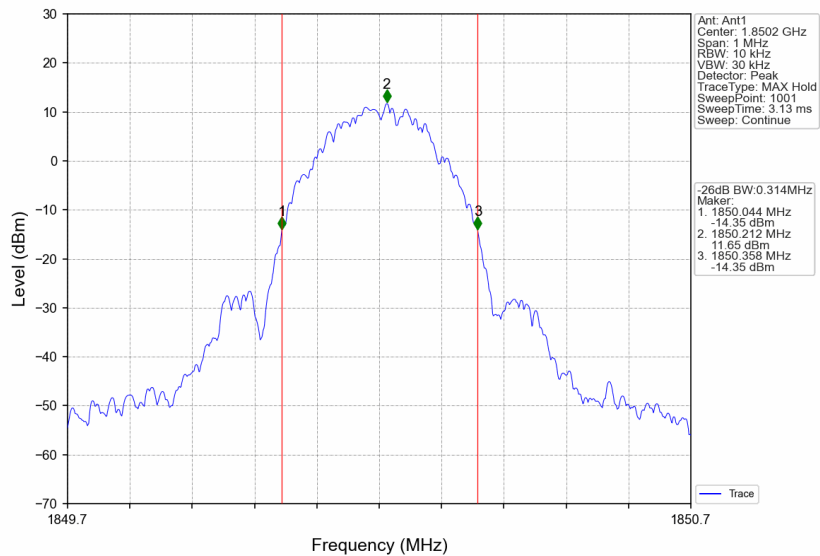
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PCS1900\_EGPRS\_LCH\_1850.2MHz\_1 TX Slot\_NTNV

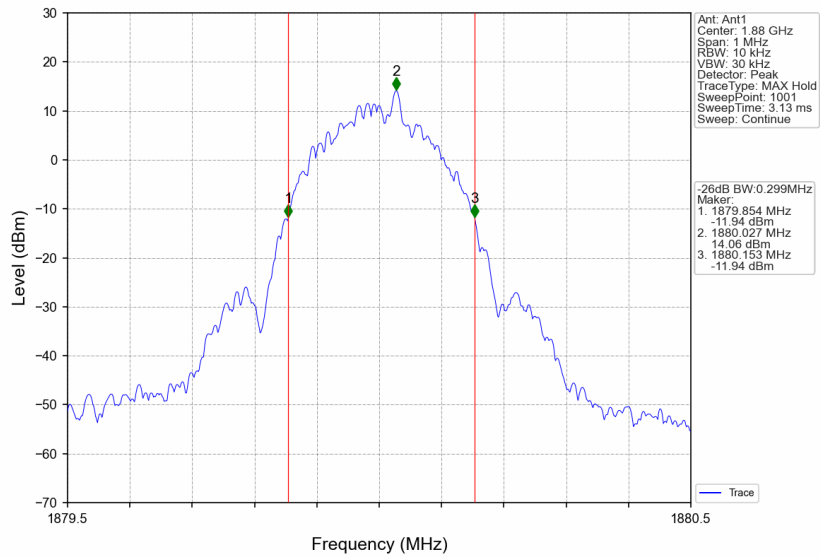


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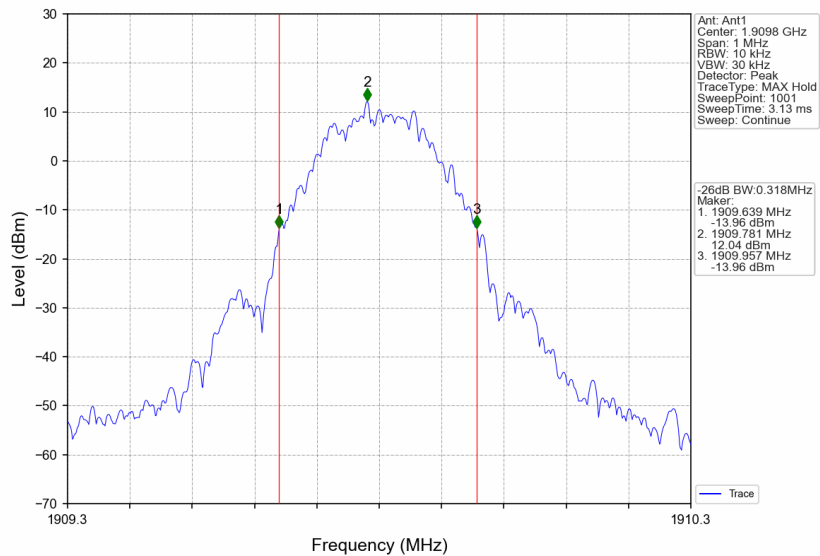
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## 5. Peak-Average Ratio

### 5.1 PCS1900

#### 5.1.1 Test Result

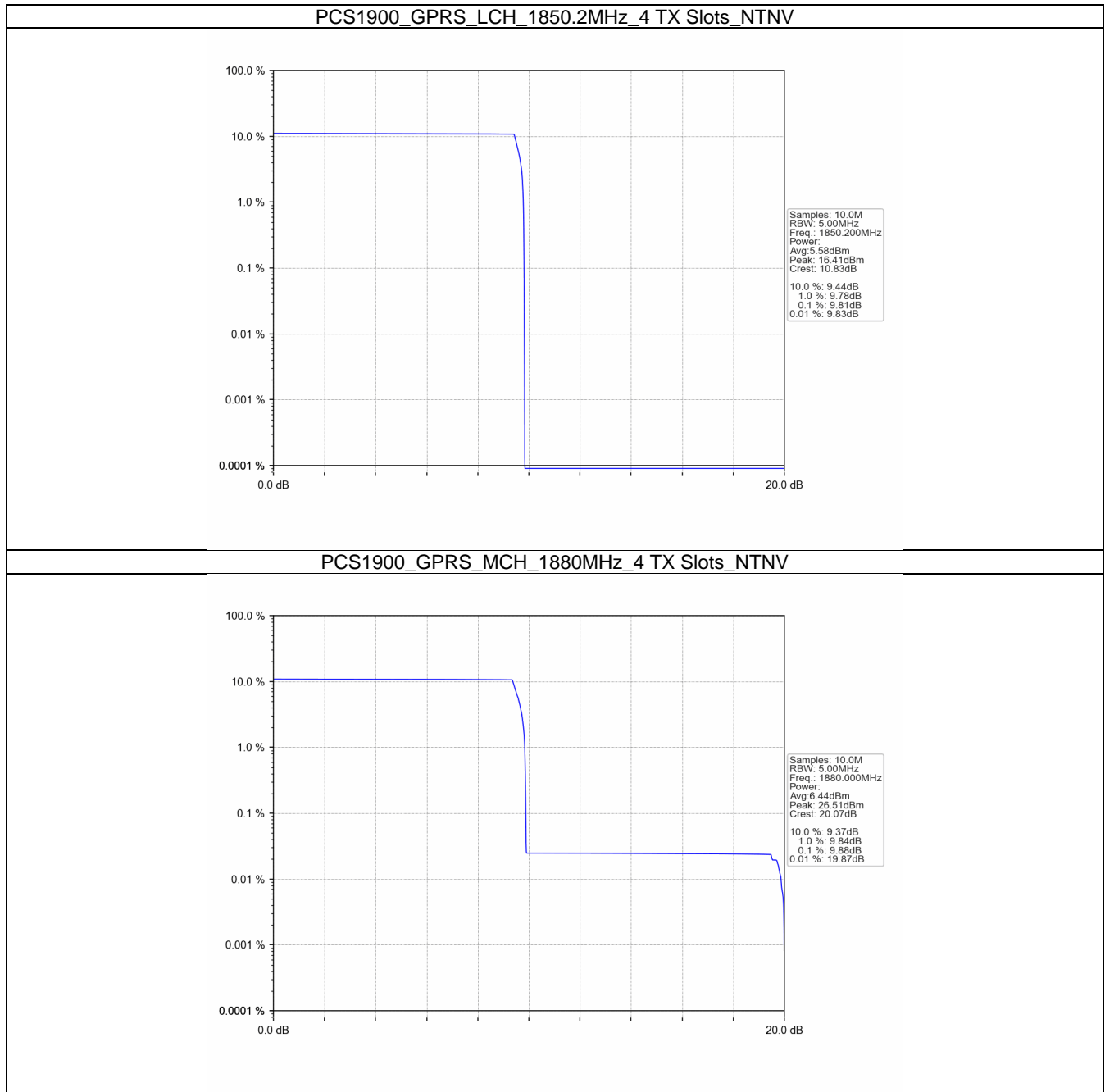
Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	1850.2	9.81	<=13	Pass
			1880	9.88	<=13	Pass
			1909.8	4.63	<=13	Pass
	EGPRS	4 TX Slots	1850.2	9.04	<=13	Pass
			1880	8.85	<=13	Pass
			1909.8	8.67	<=13	Pass



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5.1.2 Test Graph

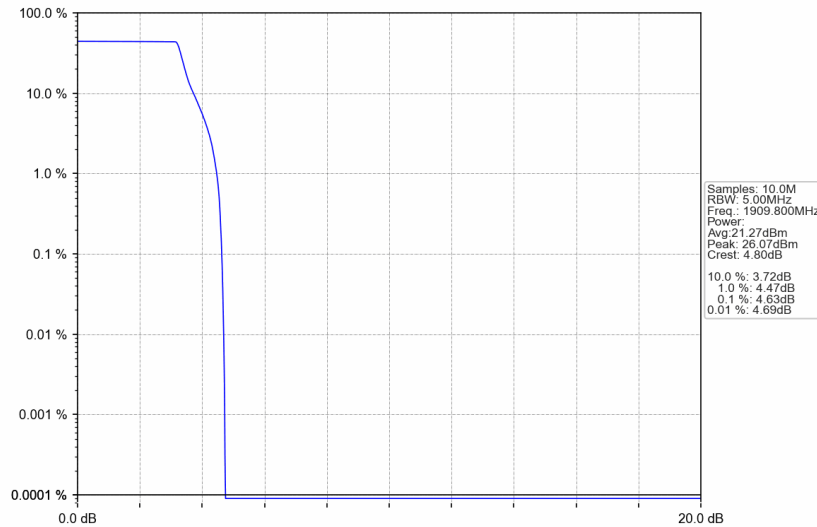


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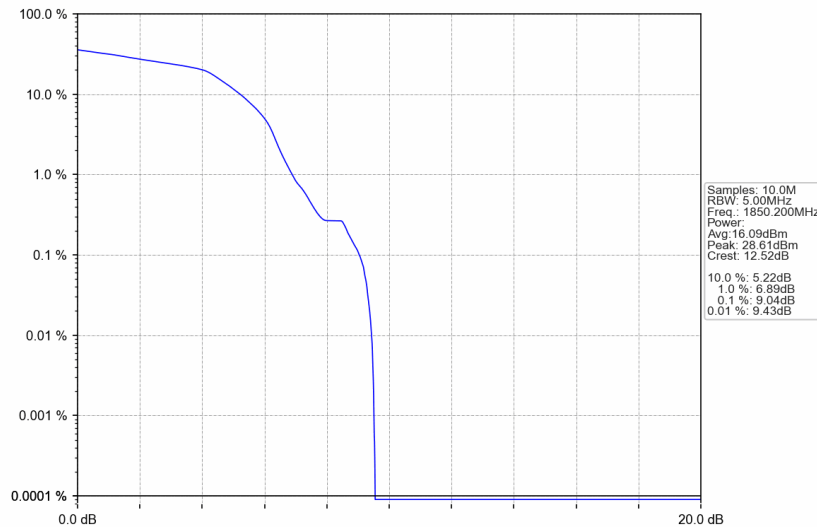
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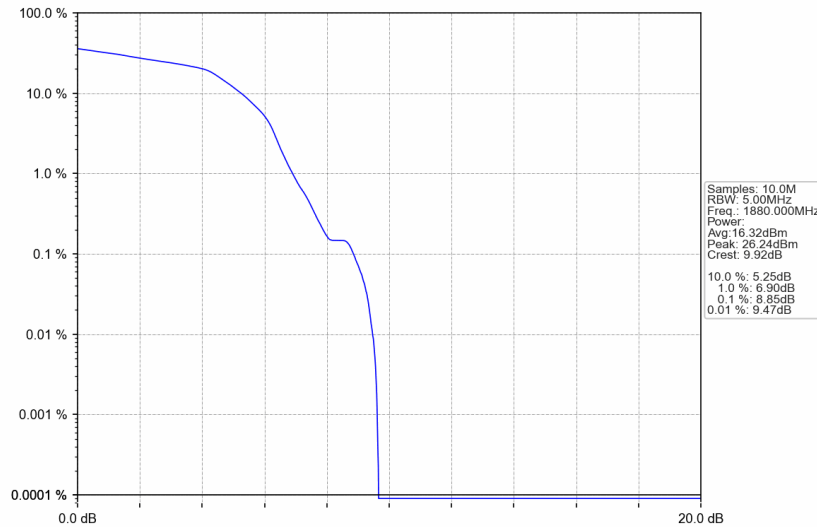
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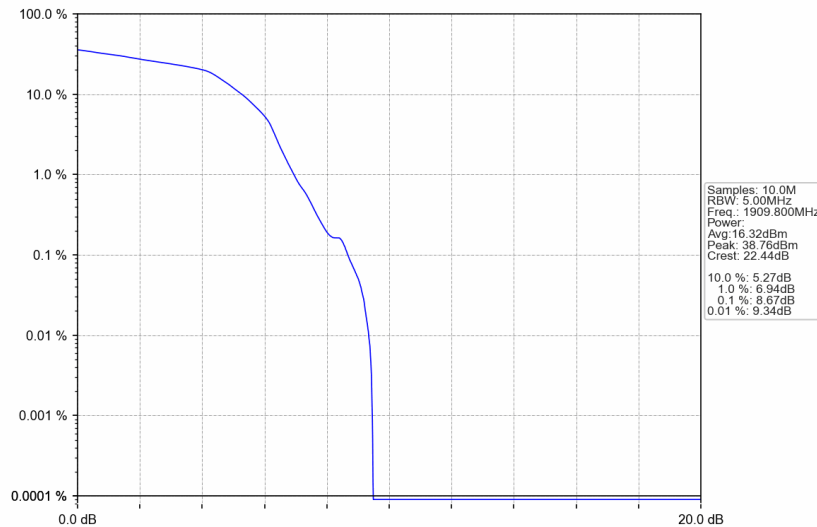
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## 6. Spurious Emission

### 6.1 PCS1900

#### 6.1.1 Test Result

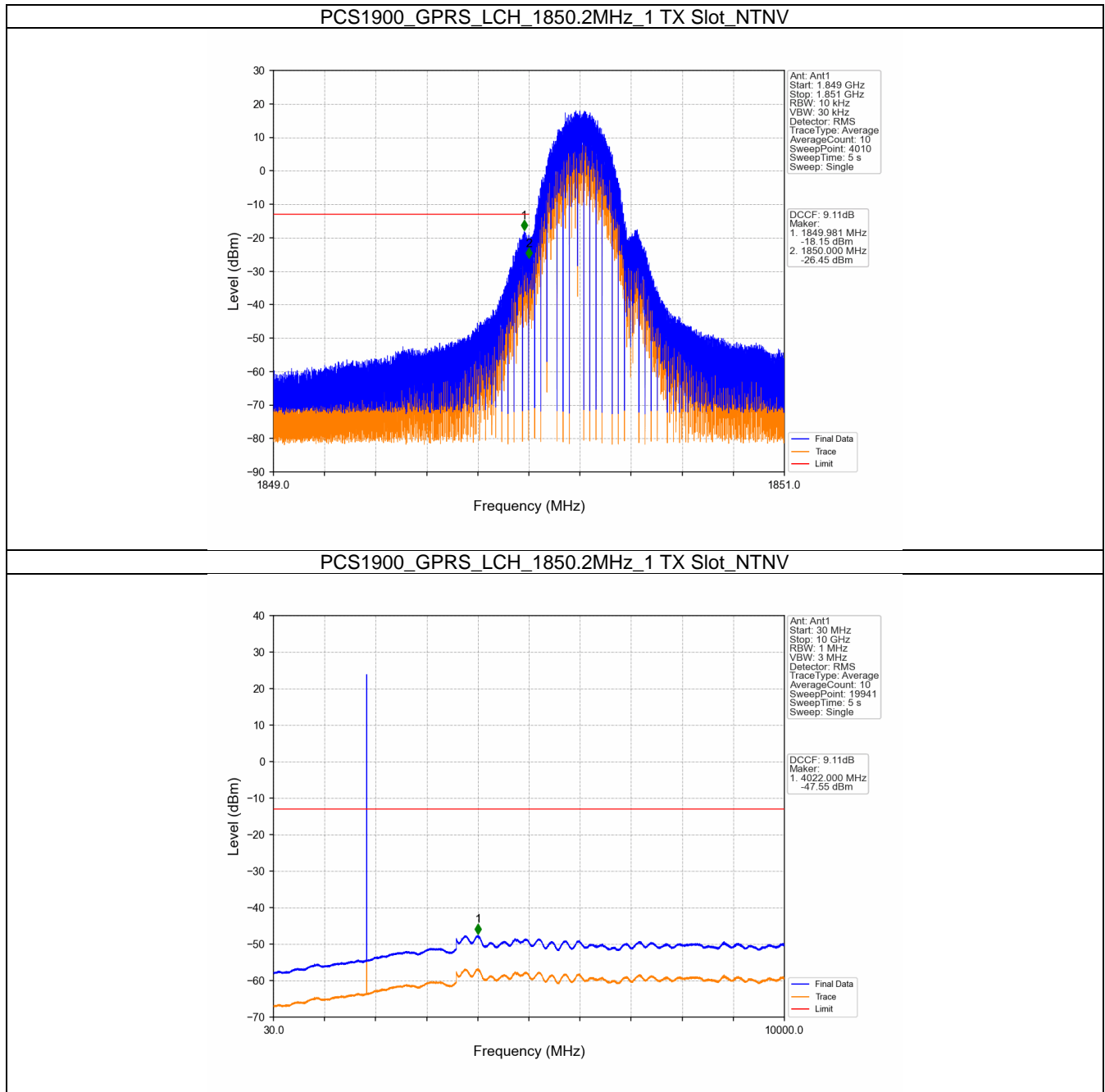
Band: PCS1900						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	Refer To Test Graph		Pass
			1880	Refer To Test Graph		Pass
			1909.8	Refer To Test Graph		Pass
	EGPRS	1 TX Slot	1850.2	Refer To Test Graph		Pass
			1880	Refer To Test Graph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



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6.1.2 Test Graph



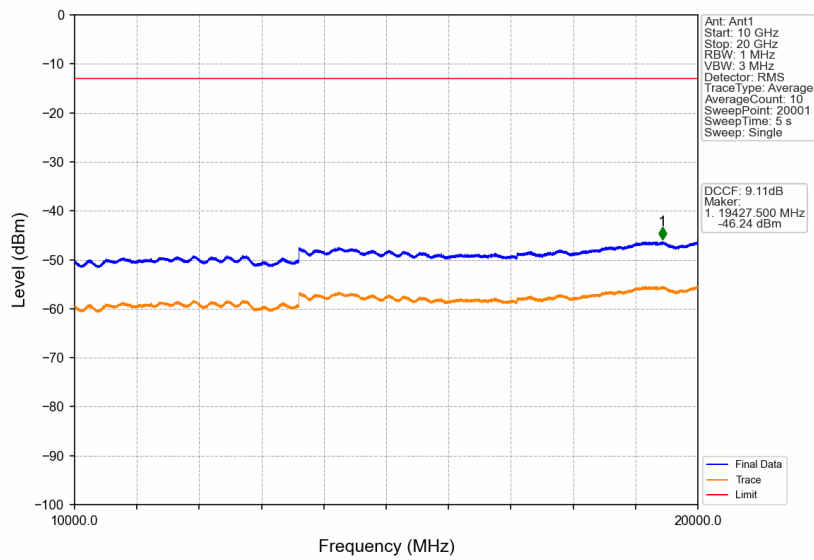
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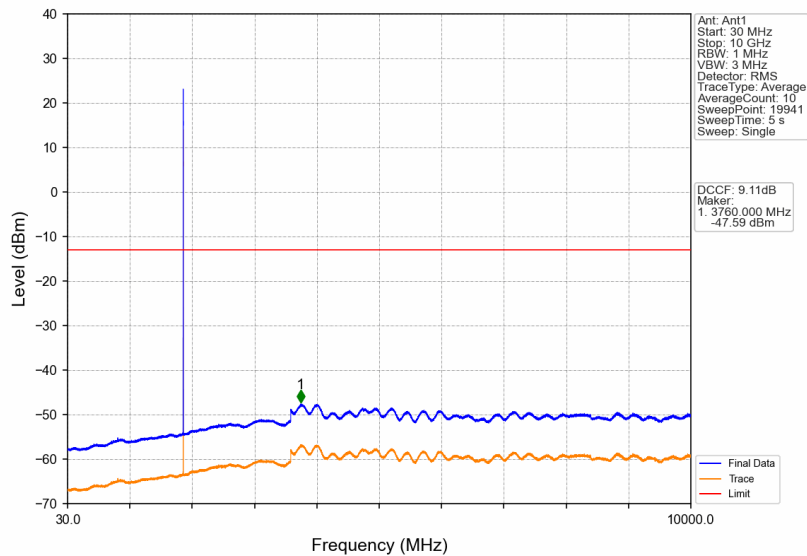
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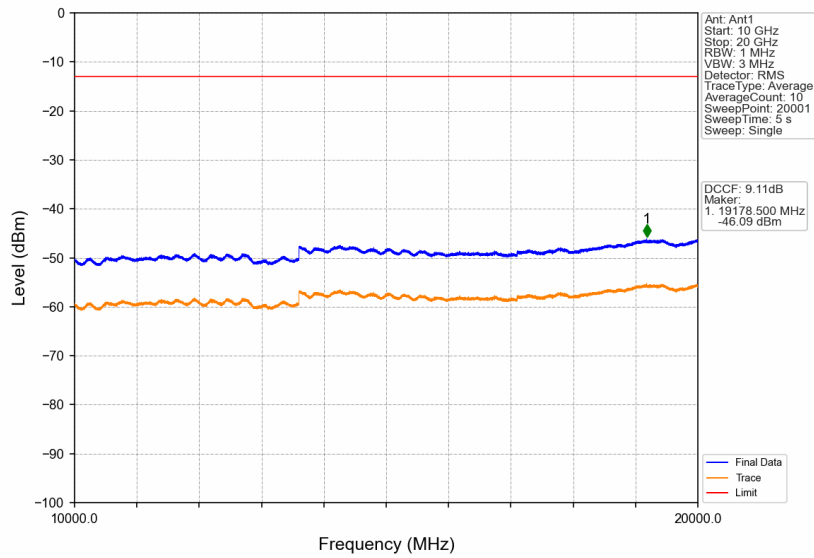
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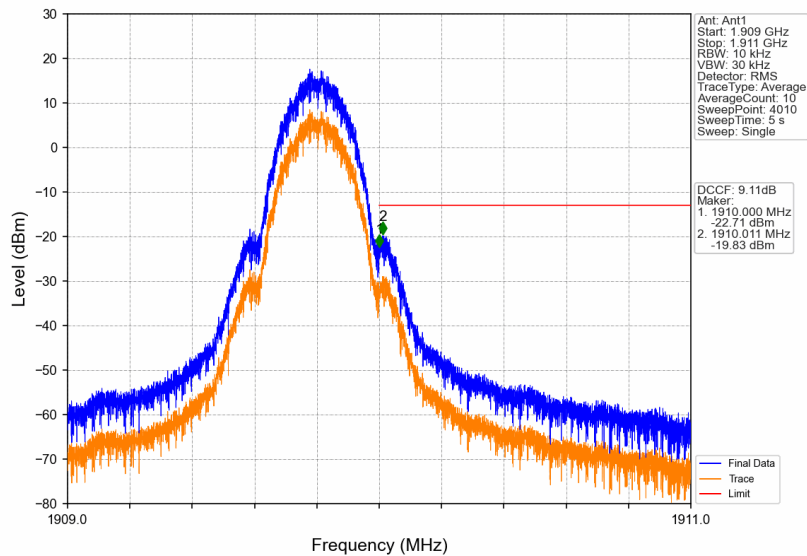
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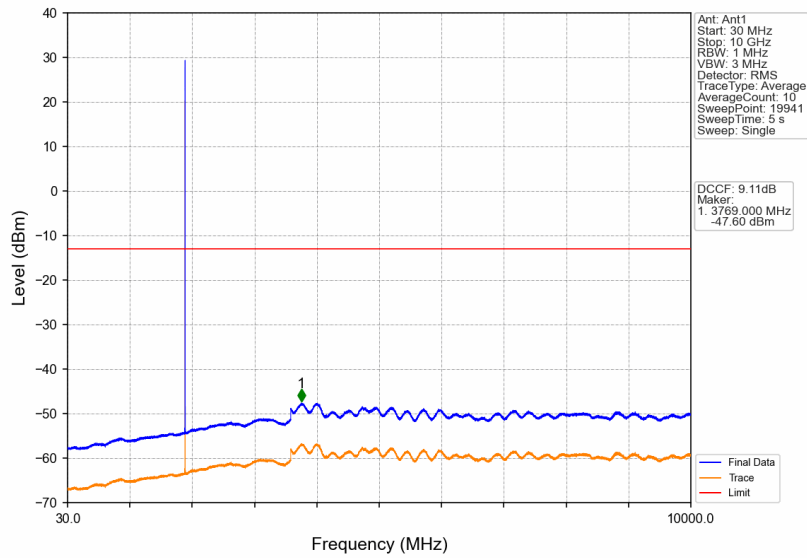
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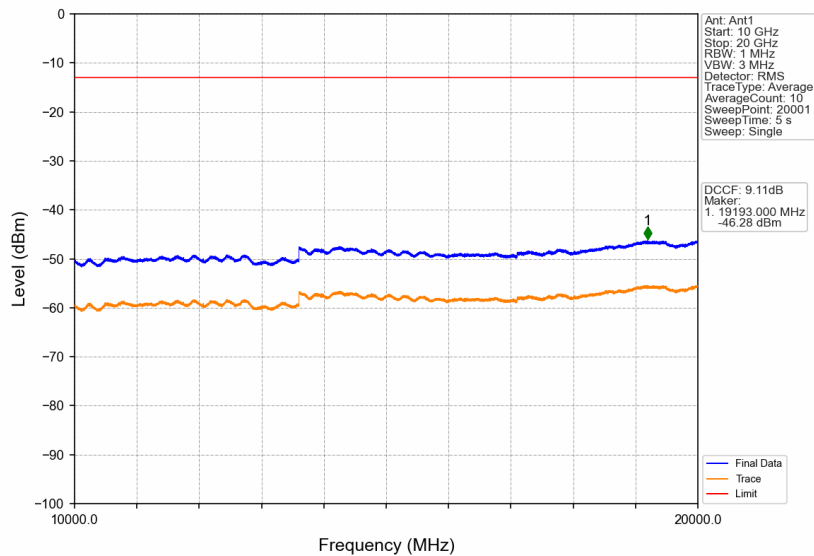
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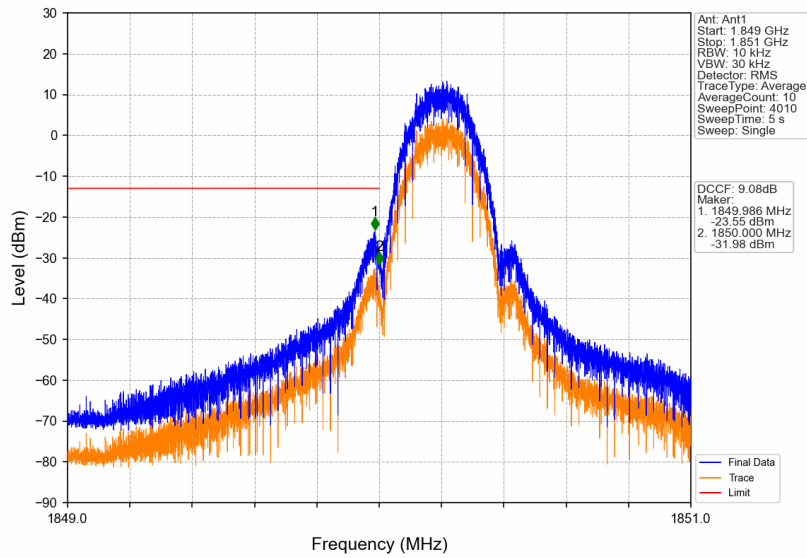
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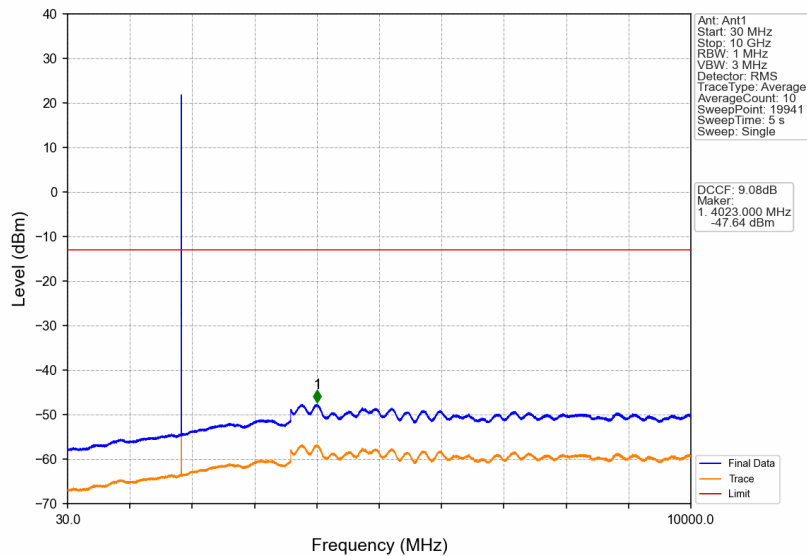
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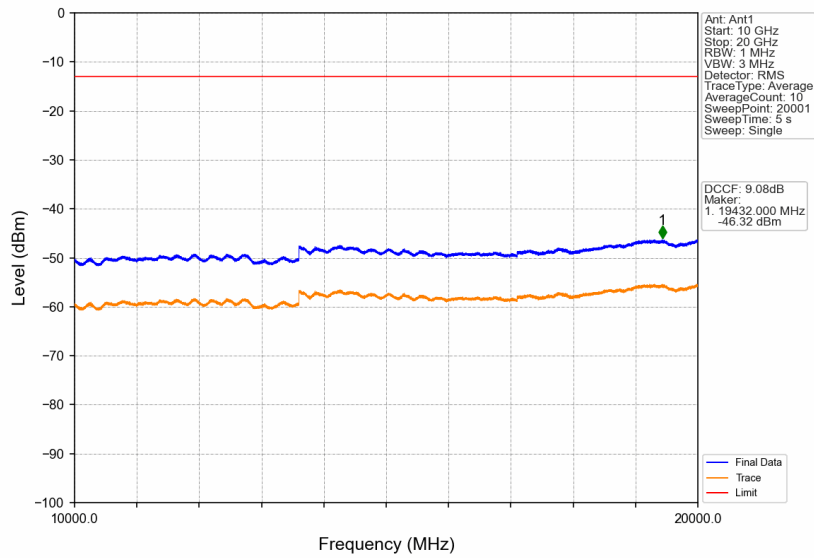
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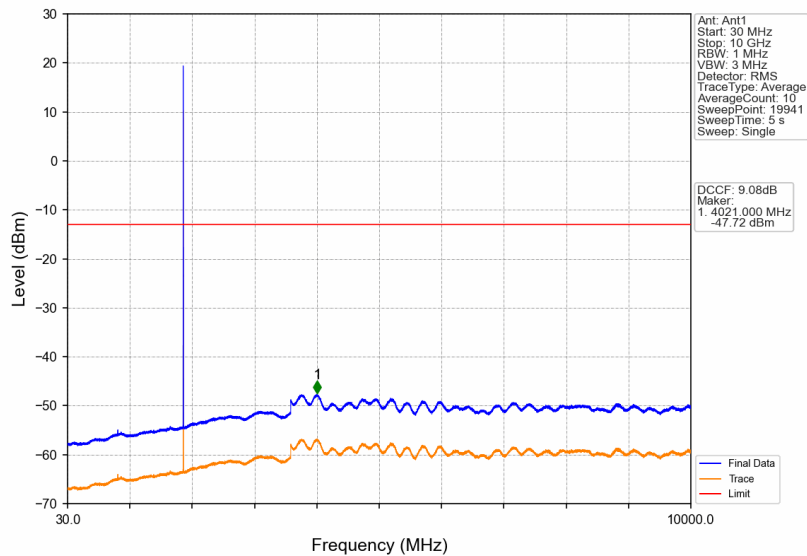
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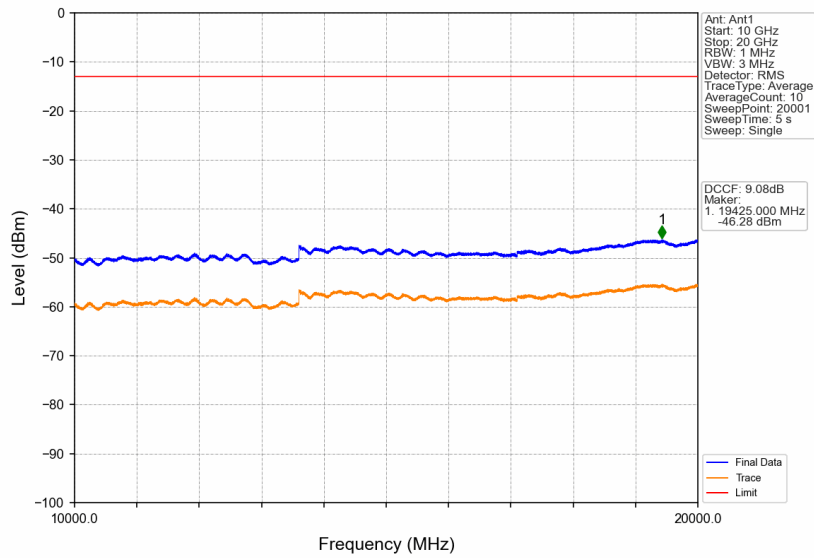
PCS1900\_EGPRS\_MCH\_1880MHz\_1 TX Slot\_NTNV



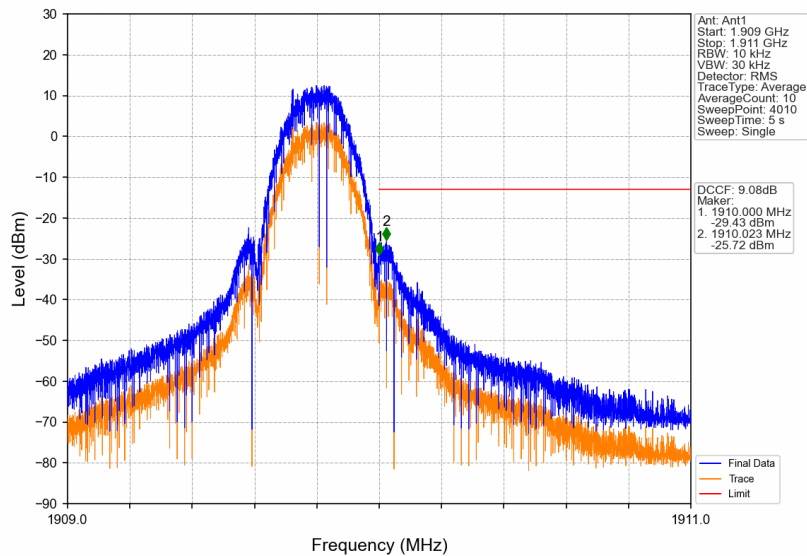
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PCS1900\_EGPRS\_MCH\_1880MHz\_1 TX Slot\_NTNV



PCS1900\_EGPRS\_HCH\_1909.8MHz\_1 TX Slot\_NTNV

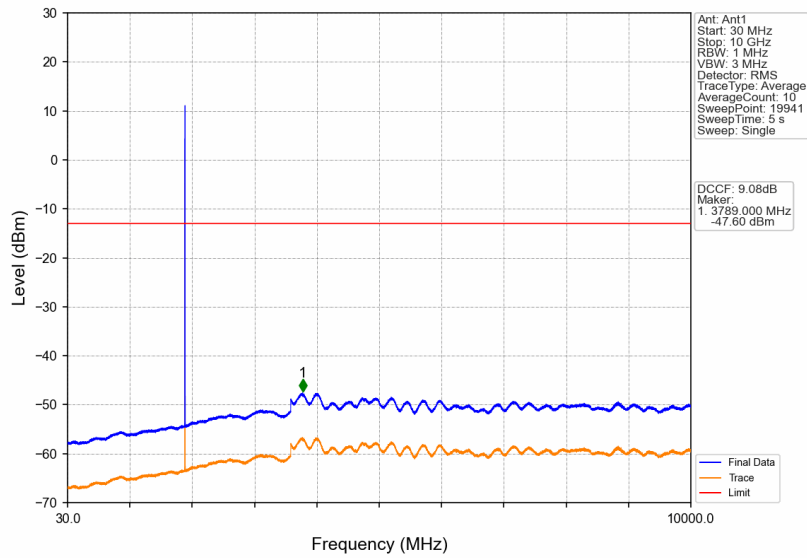


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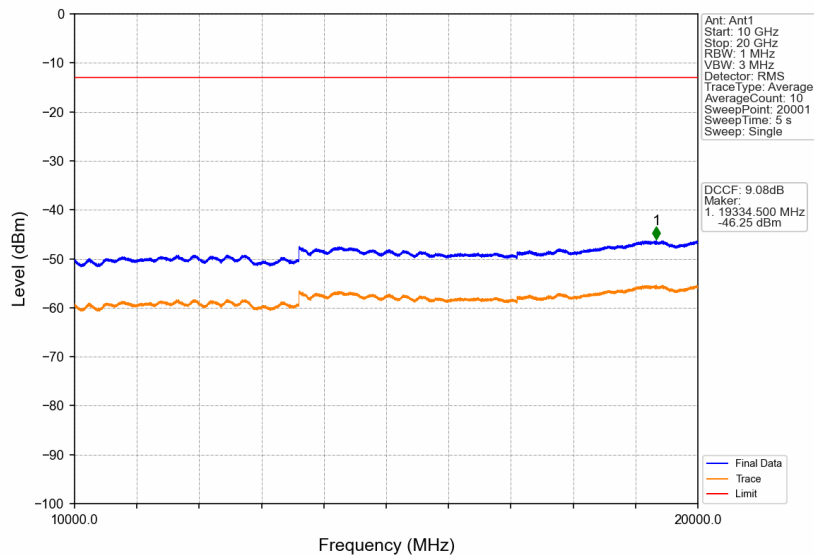
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PCS1900\_EGPRS\_HCH\_1909.8MHz\_1 TX Slot\_NTNV



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