

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 PCS1900_EIRP

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	28.73	3.50	32.23	<=33.01	Pass
			1880	28.90	3.50	32.40	<=33.01	Pass
			1909.8	28.91	3.50	32.41	<=33.01	Pass
	EGPRS	1 TX Slot	1850.2	25.31	3.50	28.81	<=33.01	Pass
			1880	25.69	3.50	29.19	<=33.01	Pass
			1909.8	25.46	3.50	28.96	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Test Result

2.1.1 PCS1900

Band: PCS1900							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
GPRS	1850.2	20	3.27	-4.359	-0.0024	-2.5 to 2.5	Pass
			3.85	9.363	0.0051	-2.5 to 2.5	Pass
			4.43	2.809	0.0015	-2.5 to 2.5	Pass
		-30	3.85	4.972	0.0027	-2.5 to 2.5	Pass
		-20	3.85	6.941	0.0038	-2.5 to 2.5	Pass
		-10	3.85	6.167	0.0033	-2.5 to 2.5	Pass
		0	3.85	7.361	0.0040	-2.5 to 2.5	Pass
		10	3.85	10.009	0.0054	-2.5 to 2.5	Pass
		30	3.85	7.167	0.0039	-2.5 to 2.5	Pass
		40	3.85	8.782	0.0047	-2.5 to 2.5	Pass
		50	3.85	9.718	0.0053	-2.5 to 2.5	Pass
	1880	20	3.27	5.521	0.0029	-2.5 to 2.5	Pass
			3.85	9.912	0.0053	-2.5 to 2.5	Pass
			4.43	7.103	0.0038	-2.5 to 2.5	Pass
		-30	3.85	10.848	0.0058	-2.5 to 2.5	Pass
		-20	3.85	8.394	0.0045	-2.5 to 2.5	Pass
		-10	3.85	7.490	0.0040	-2.5 to 2.5	Pass
		0	3.85	9.912	0.0053	-2.5 to 2.5	Pass
		10	3.85	10.202	0.0054	-2.5 to 2.5	Pass
		30	3.85	8.297	0.0044	-2.5 to 2.5	Pass
		40	3.85	9.331	0.0050	-2.5 to 2.5	Pass
		50	3.85	12.269	0.0065	-2.5 to 2.5	Pass
	1909.8	20	3.27	12.204	0.0064	-2.5 to 2.5	Pass
			3.85	12.010	0.0063	-2.5 to 2.5	Pass
			4.43	9.879	0.0052	-2.5 to 2.5	Pass
		-30	3.85	10.428	0.0055	-2.5 to 2.5	Pass
		-20	3.85	6.715	0.0035	-2.5 to 2.5	Pass

EGPRS		-10	3.85	7.975	0.0042	-2.5 to 2.5	Pass
		0	3.85	10.557	0.0055	-2.5 to 2.5	Pass
		10	3.85	8.943	0.0047	-2.5 to 2.5	Pass
		30	3.85	11.461	0.0060	-2.5 to 2.5	Pass
		40	3.85	9.589	0.0050	-2.5 to 2.5	Pass
		50	3.85	10.751	0.0056	-2.5 to 2.5	Pass
	1850.2	20	3.27	3.745	0.0020	-2.5 to 2.5	Pass
			3.85	6.522	0.0035	-2.5 to 2.5	Pass
			4.43	7.200	0.0039	-2.5 to 2.5	Pass
		-30	3.85	5.166	0.0028	-2.5 to 2.5	Pass
		-20	3.85	7.006	0.0038	-2.5 to 2.5	Pass
		-10	3.85	7.587	0.0041	-2.5 to 2.5	Pass
		0	3.85	7.135	0.0039	-2.5 to 2.5	Pass
		10	3.85	10.461	0.0057	-2.5 to 2.5	Pass
		30	3.85	7.490	0.0040	-2.5 to 2.5	Pass
		40	3.85	10.105	0.0055	-2.5 to 2.5	Pass
		50	3.85	10.202	0.0055	-2.5 to 2.5	Pass
	1880	20	3.27	10.073	0.0054	-2.5 to 2.5	Pass
			3.85	9.137	0.0049	-2.5 to 2.5	Pass
			4.43	9.298	0.0049	-2.5 to 2.5	Pass
		-30	3.85	9.427	0.0050	-2.5 to 2.5	Pass
		-20	3.85	9.201	0.0049	-2.5 to 2.5	Pass
		-10	3.85	9.072	0.0048	-2.5 to 2.5	Pass
		0	3.85	7.103	0.0038	-2.5 to 2.5	Pass
		10	3.85	9.072	0.0048	-2.5 to 2.5	Pass
		30	3.85	7.426	0.0040	-2.5 to 2.5	Pass
		40	3.85	7.878	0.0042	-2.5 to 2.5	Pass
		50	3.85	10.493	0.0056	-2.5 to 2.5	Pass
	1909.8	20	3.27	11.591	0.0061	-2.5 to 2.5	Pass
			3.85	12.721	0.0067	-2.5 to 2.5	Pass
			4.43	8.168	0.0043	-2.5 to 2.5	Pass
		-30	3.85	3.810	0.0020	-2.5 to 2.5	Pass
		-20	3.85	9.912	0.0052	-2.5 to 2.5	Pass
		-10	3.85	9.944	0.0052	-2.5 to 2.5	Pass
		0	3.85	10.009	0.0052	-2.5 to 2.5	Pass
		10	3.85	10.170	0.0053	-2.5 to 2.5	Pass
		30	3.85	9.621	0.0050	-2.5 to 2.5	Pass
		40	3.85	12.365	0.0065	-2.5 to 2.5	Pass
		50	3.85	13.011	0.0068	-2.5 to 2.5	Pass

3. Modulation Characteristics

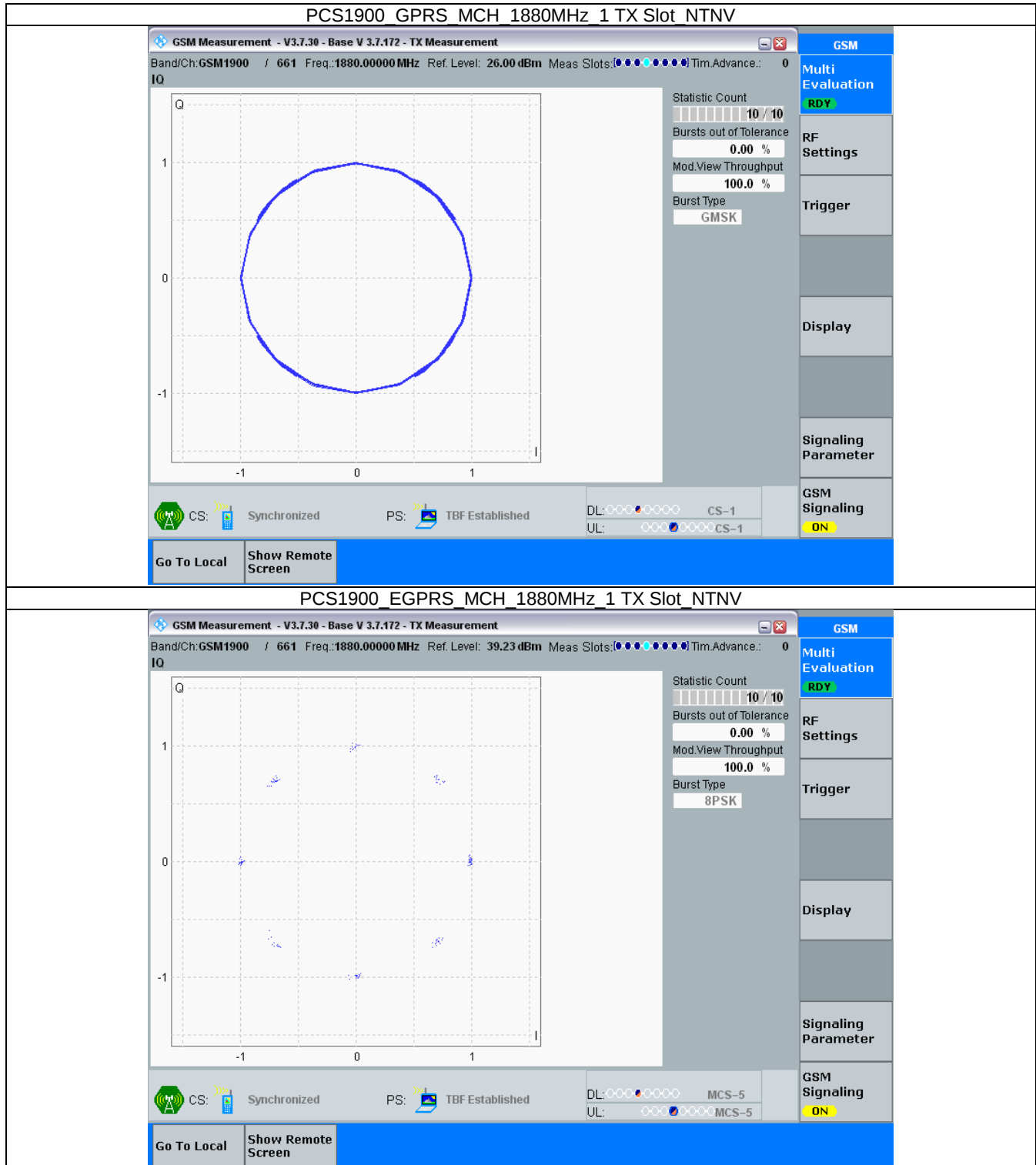
3.1 Test Result

3.1.1 PCS1900

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

3.2 Test Graph

3.2.1 PCS1900



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 PCS1900_OBW

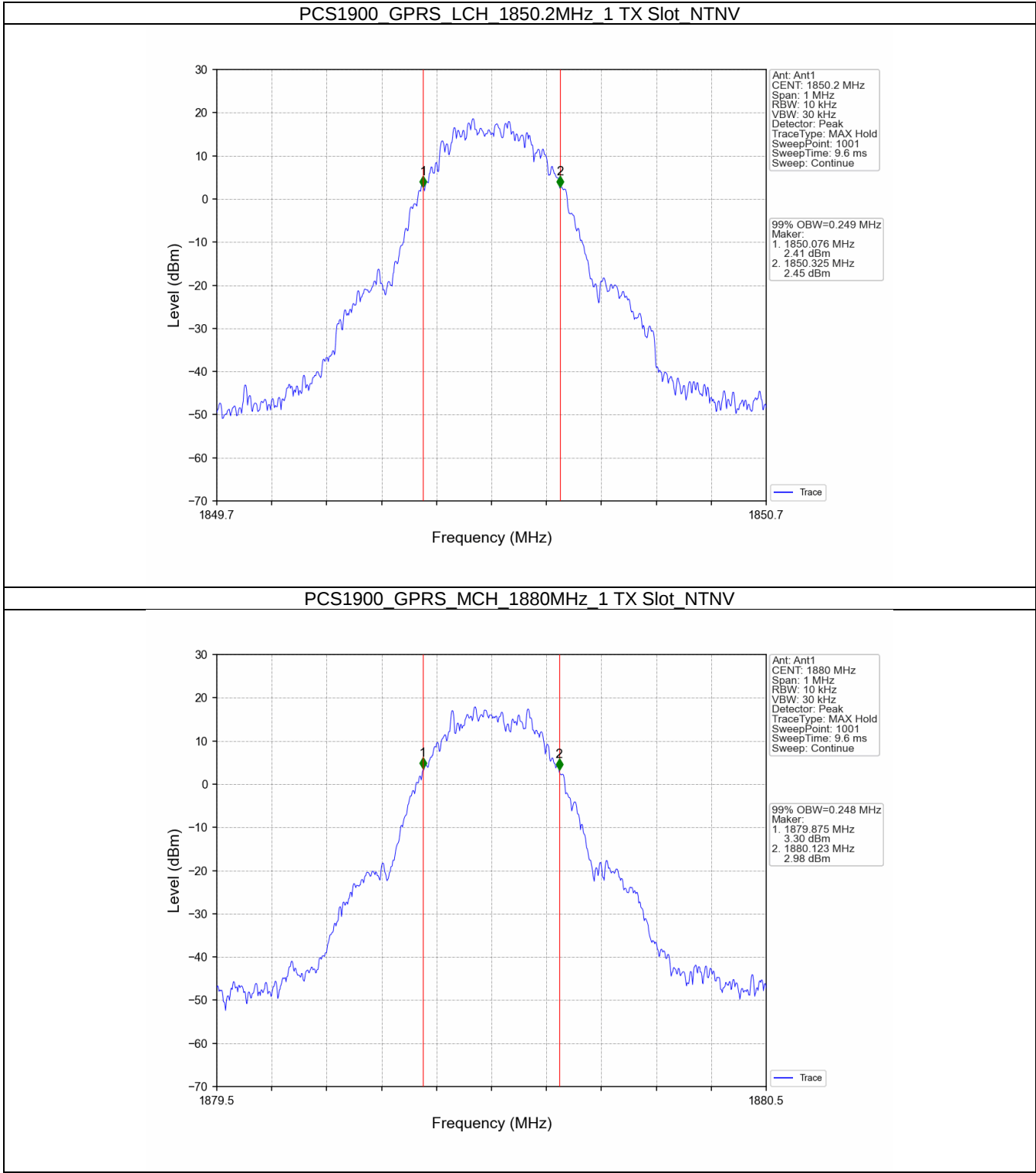
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ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	0.249	/	Pass
			1880	0.248	/	Pass
			1909.8	0.241	/	Pass
	EGPRS	1 TX Slot	1850.2	0.247	/	Pass
			1880	0.241	/	Pass
			1909.8	0.241	/	Pass

4.1.2 PCS1900_XDB

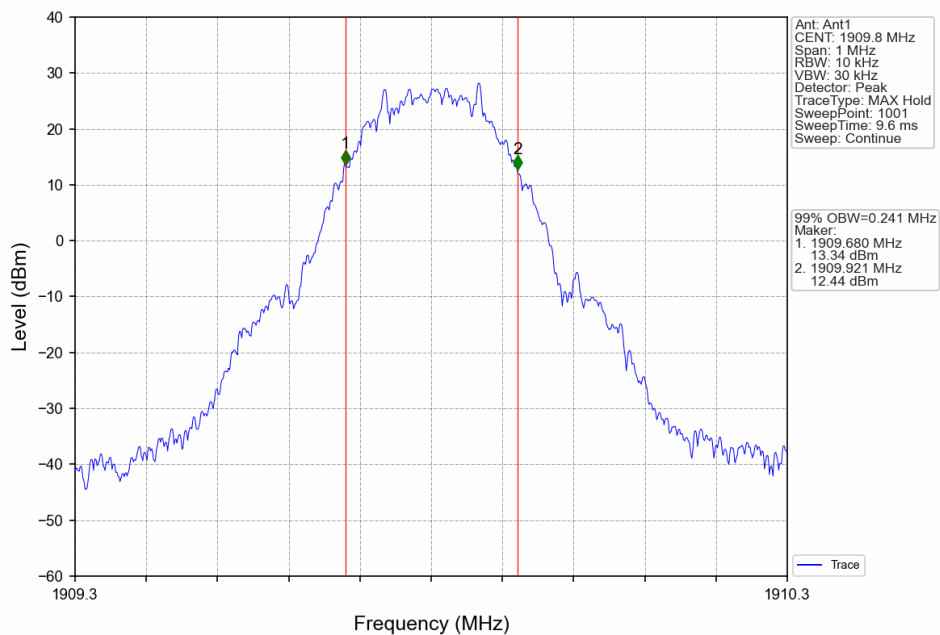
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ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	0.317	/	Pass
			1880	0.319	/	Pass
			1909.8	0.316	/	Pass
	EGPRS	1 TX Slot	1850.2	0.313	/	Pass
			1880	0.306	/	Pass
			1909.8	0.315	/	Pass

4.2 Test Graph

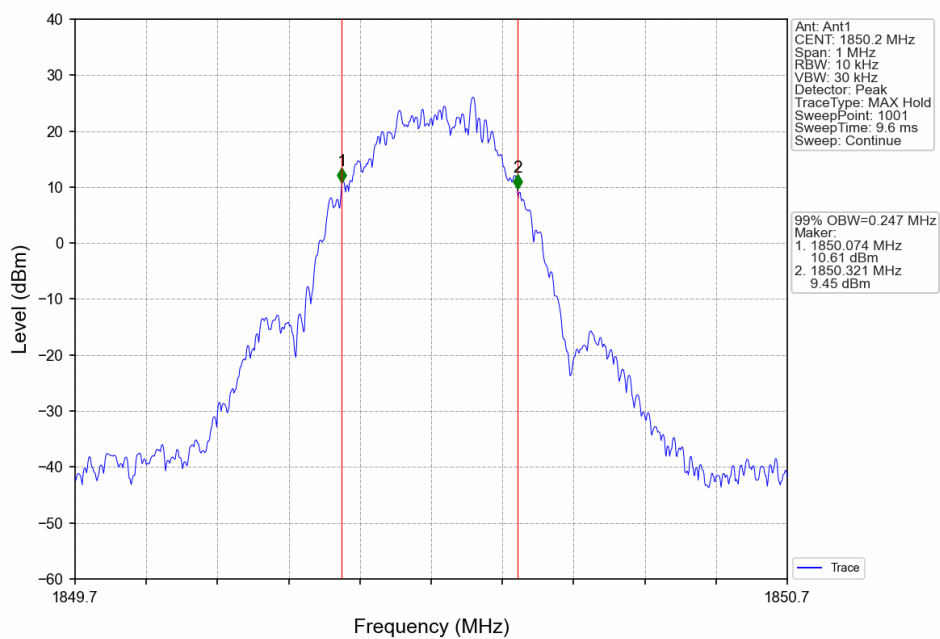
4.2.1 PCS1900_OBW



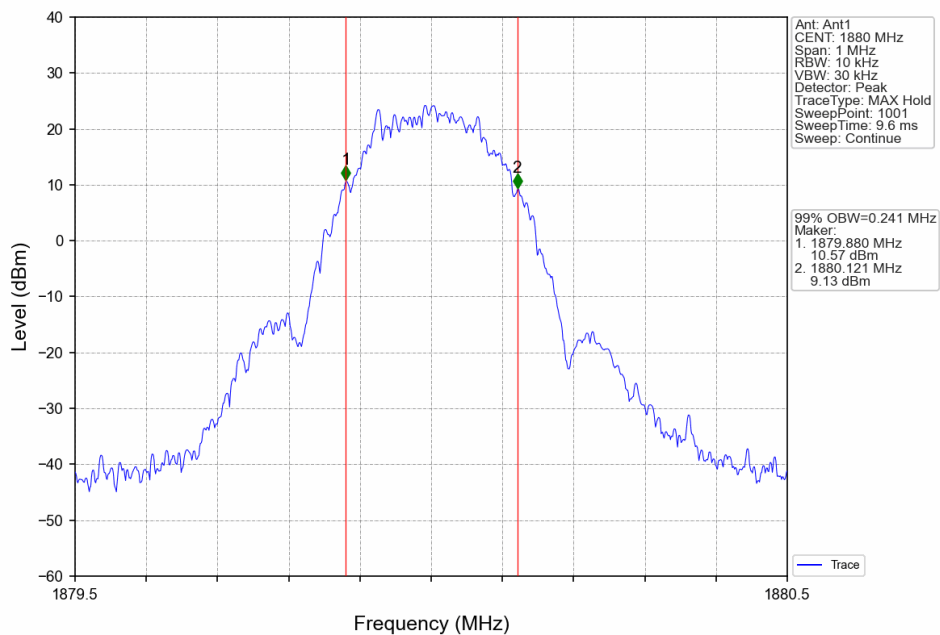
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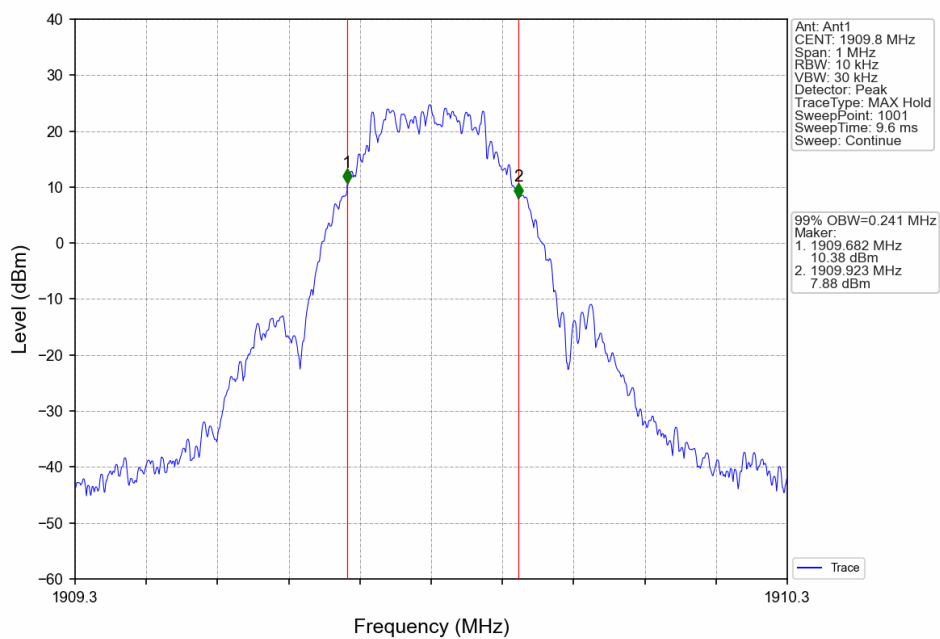
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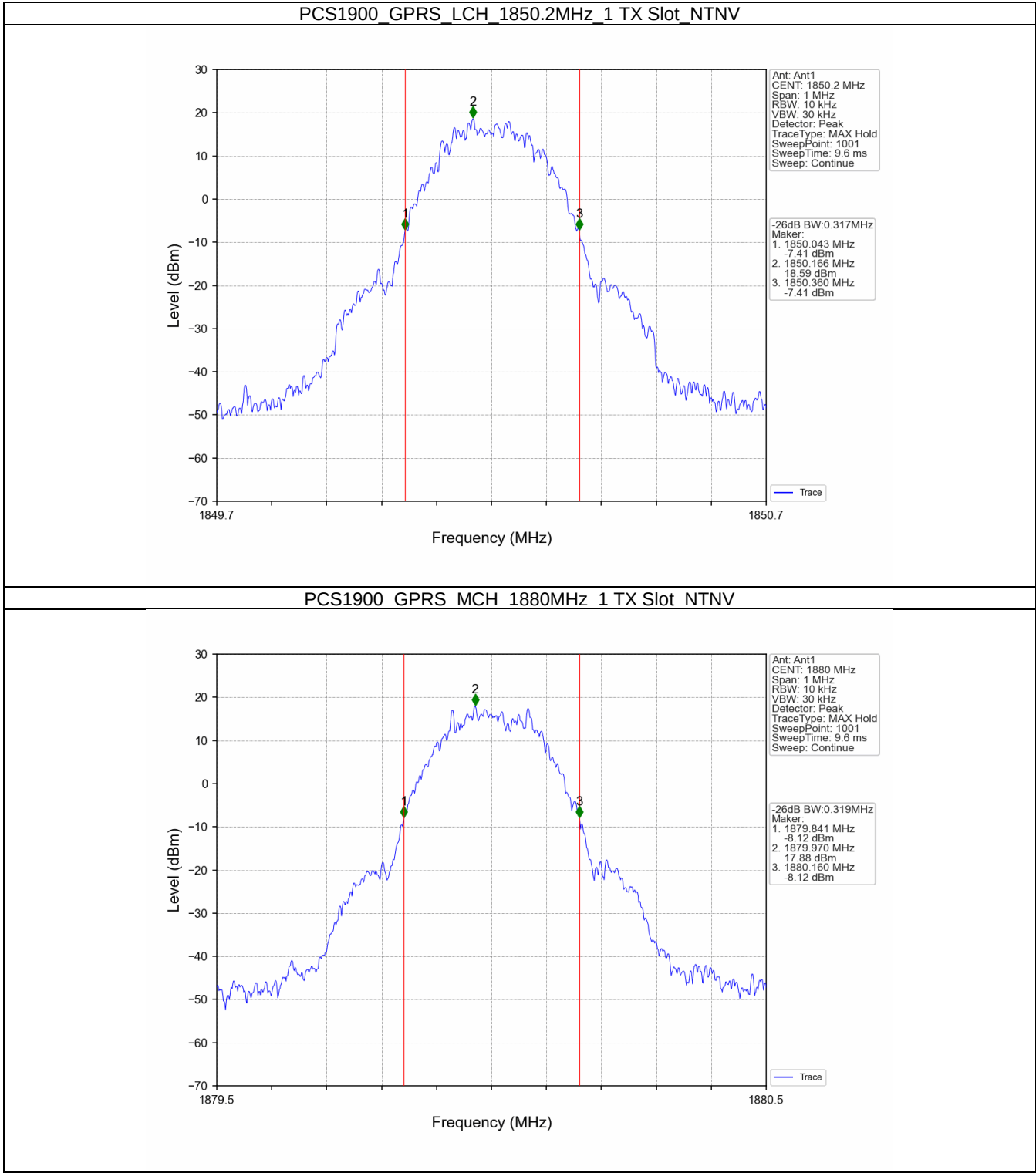
PCS1900 EGPRS MCH 1880MHz 1 TX Slot NTN



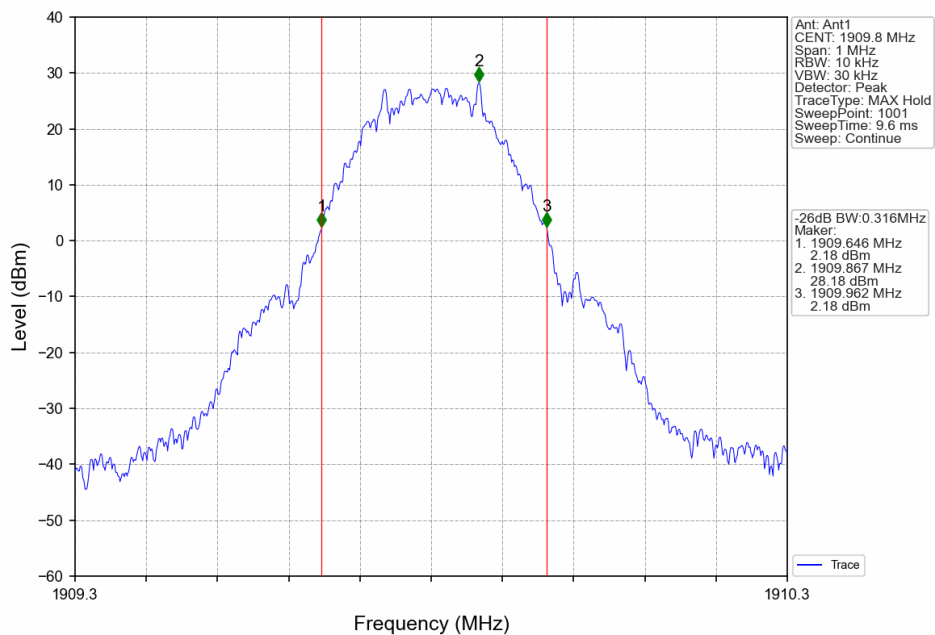
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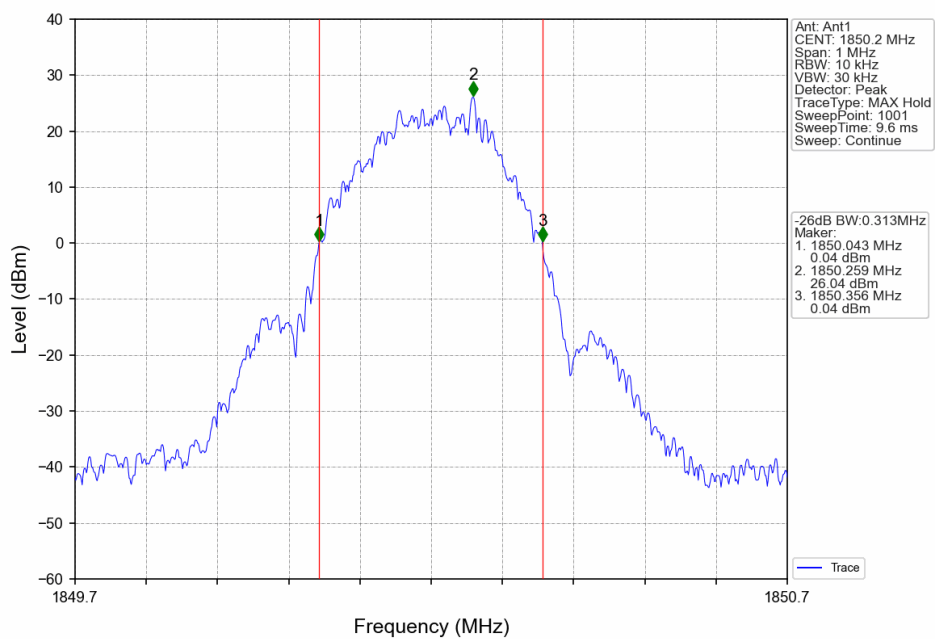
4.2.2 PCS1900_XDB



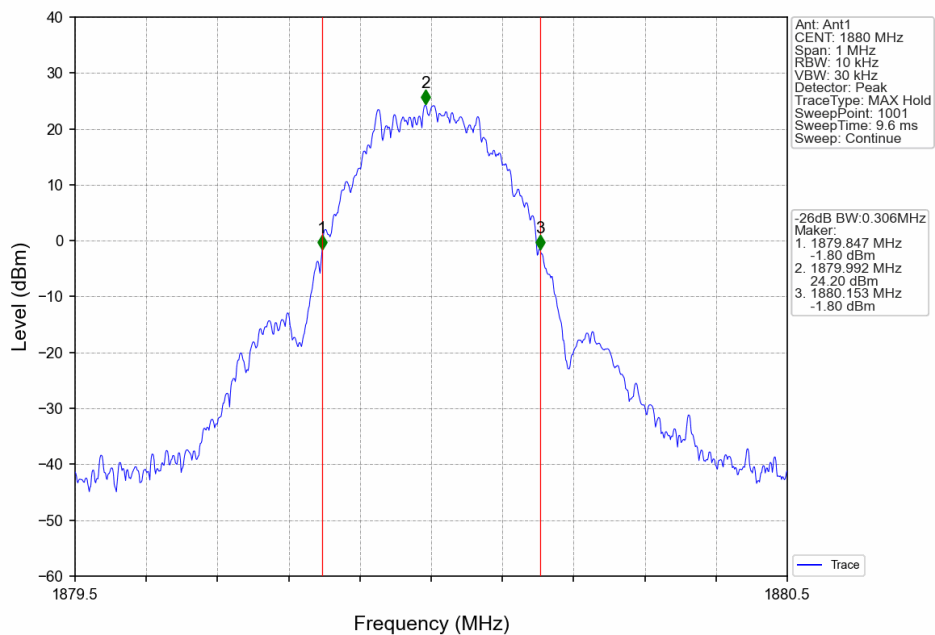
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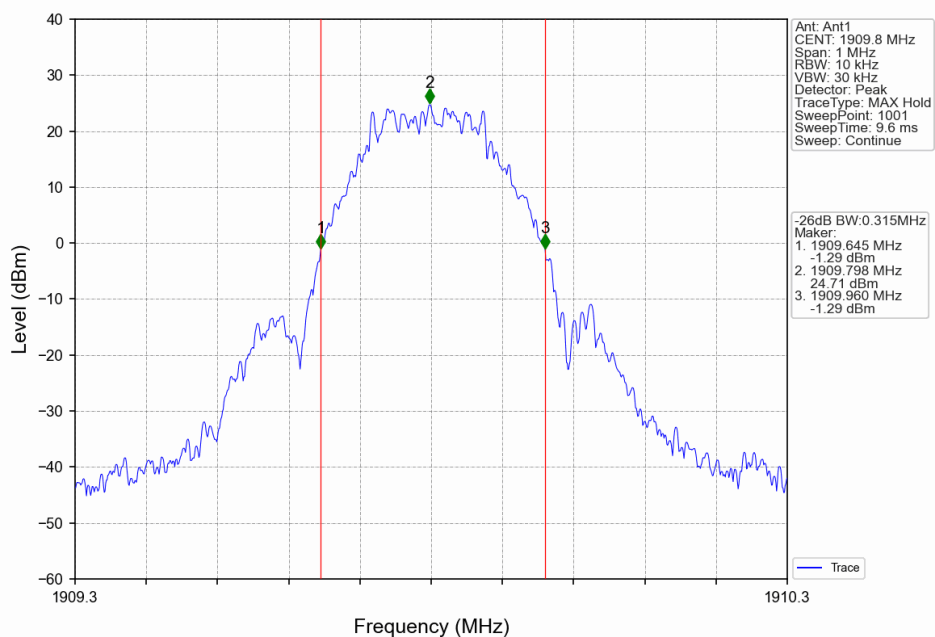
PCS1900 EGPRS LCH 1850.2MHz 1 TX Slot NTN



PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



5. Spurious Emission

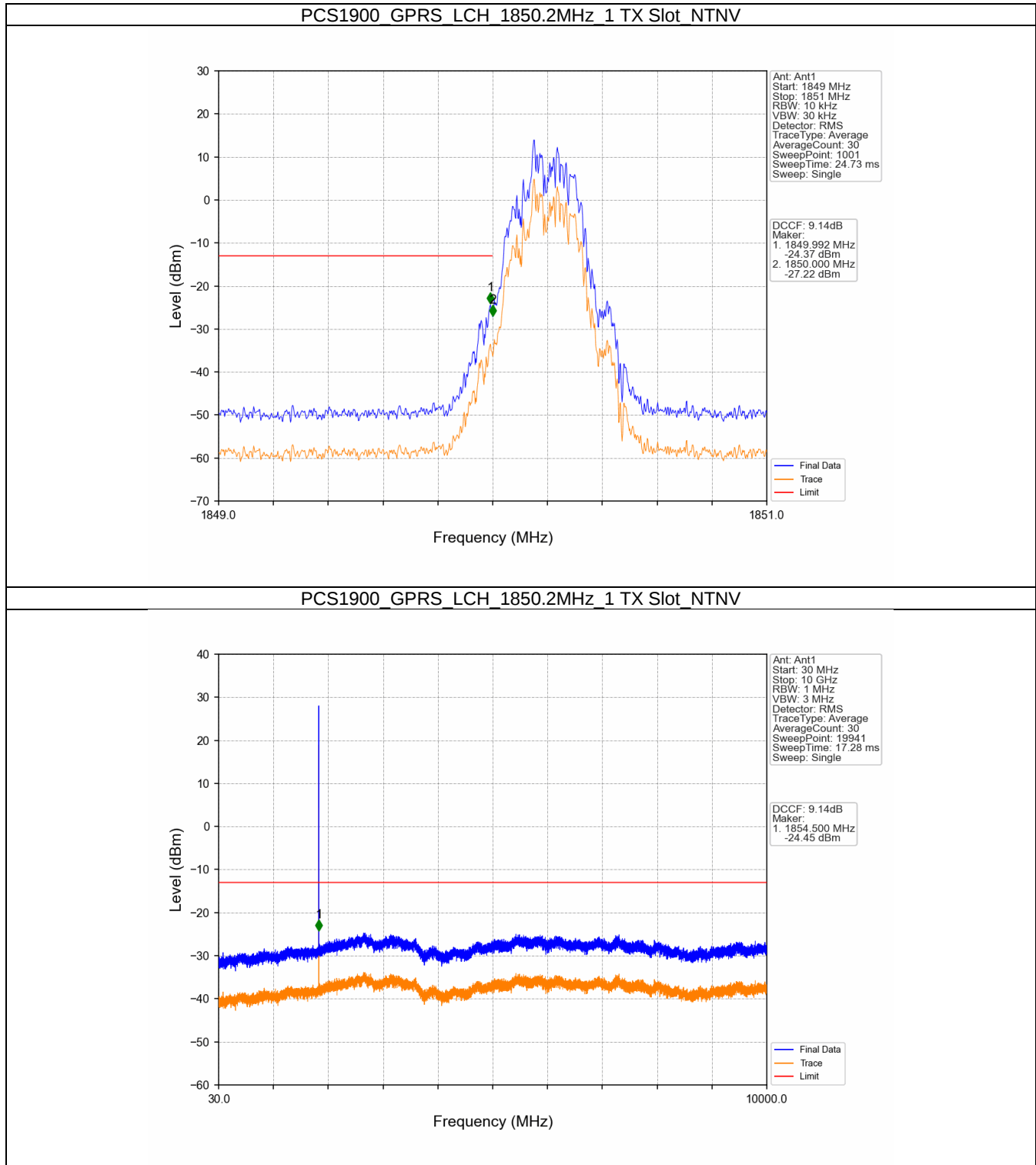
5.1 Test Result

5.1.1 PCS1900

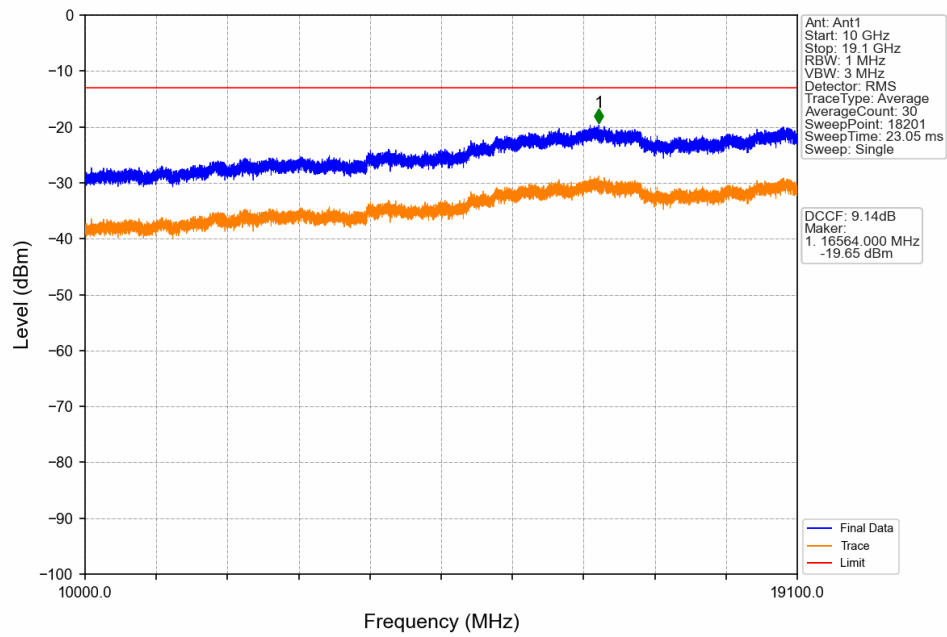
Band: PCS1900						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	Refer To Test Graph	Pass	
			1880	Refer To Test Graph	Pass	
			1909.8	Refer To Test Graph	Pass	
	EGPRS	1 TX Slot	1850.2	Refer To Test Graph	Pass	
			1880	Refer To Test Graph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

5.2 Test Graph

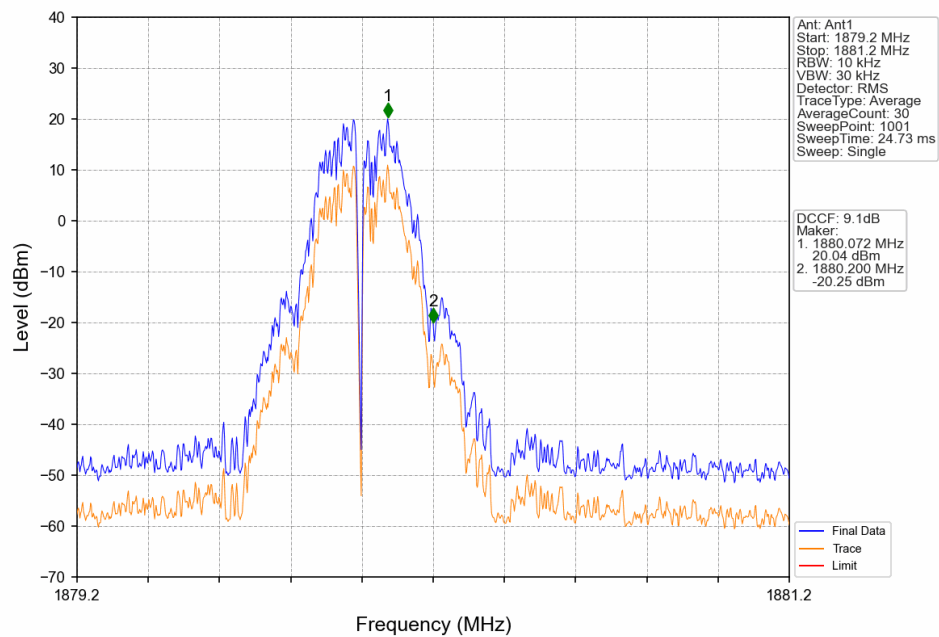
5.2.1 PCS1900



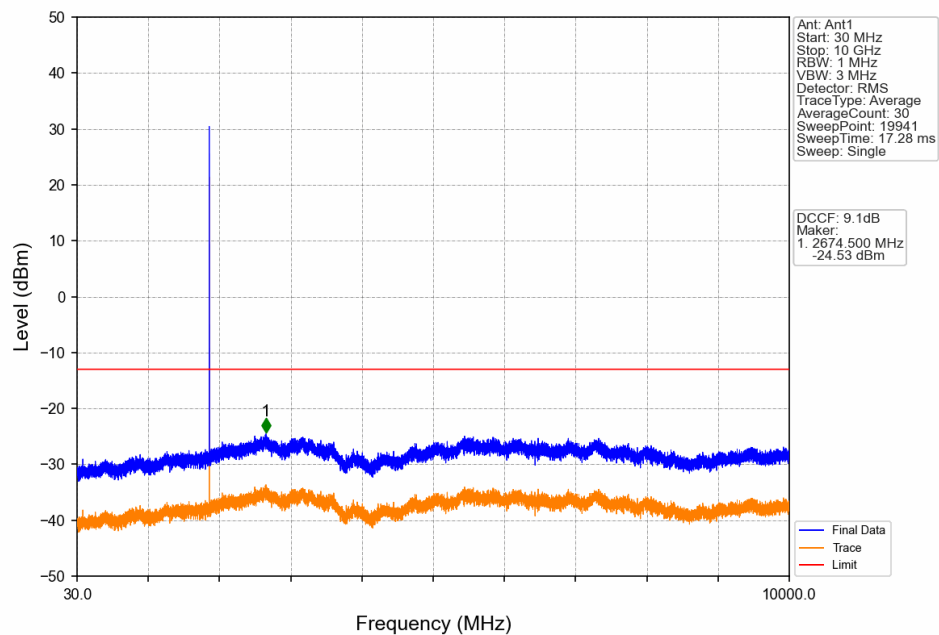
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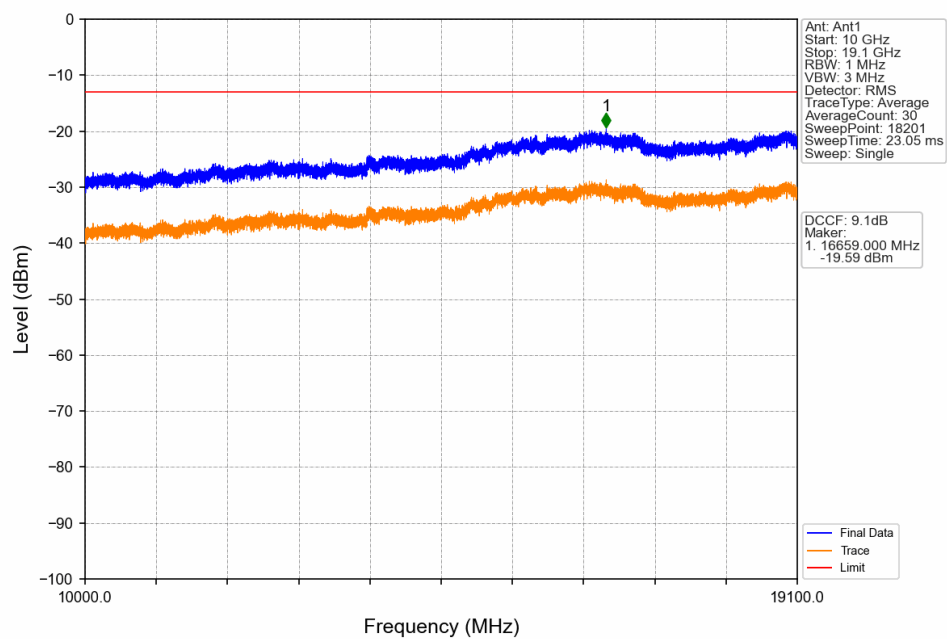
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



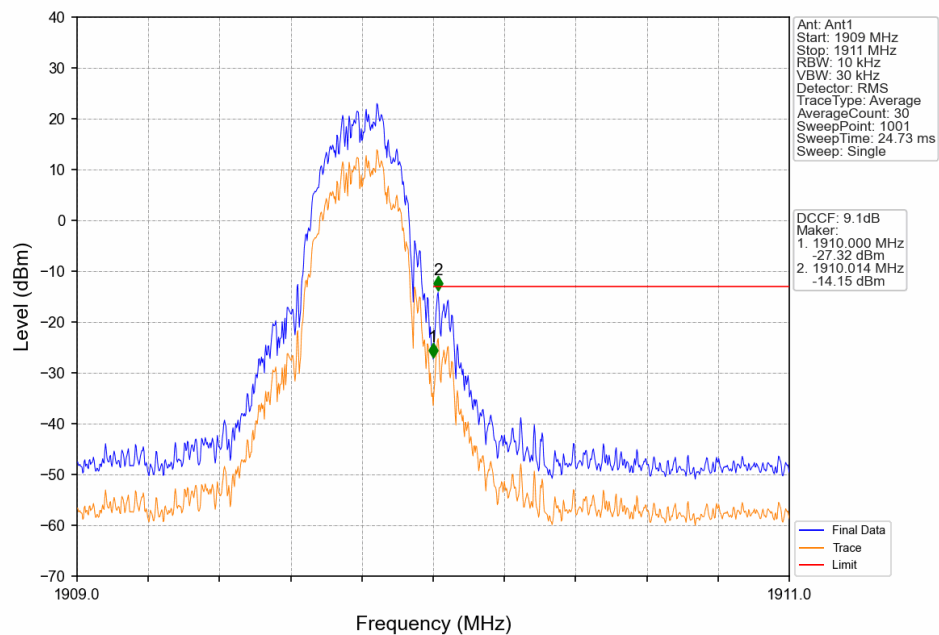
PCS1900 GPRS MCH 1880MHz 1 TX Slot NTN



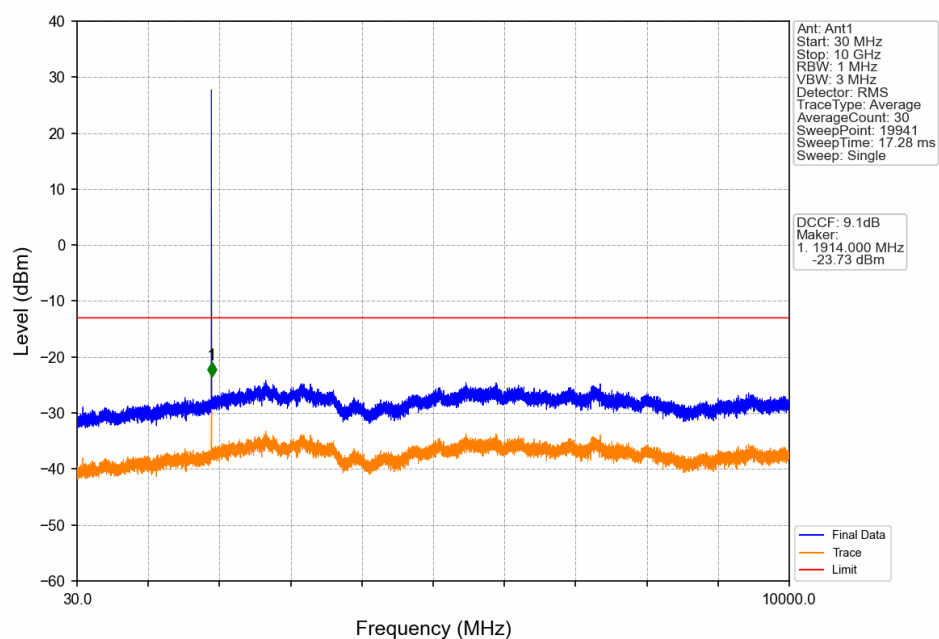
PCS1900 GPRS MCH 1880MHz 1 TX Slot NTN



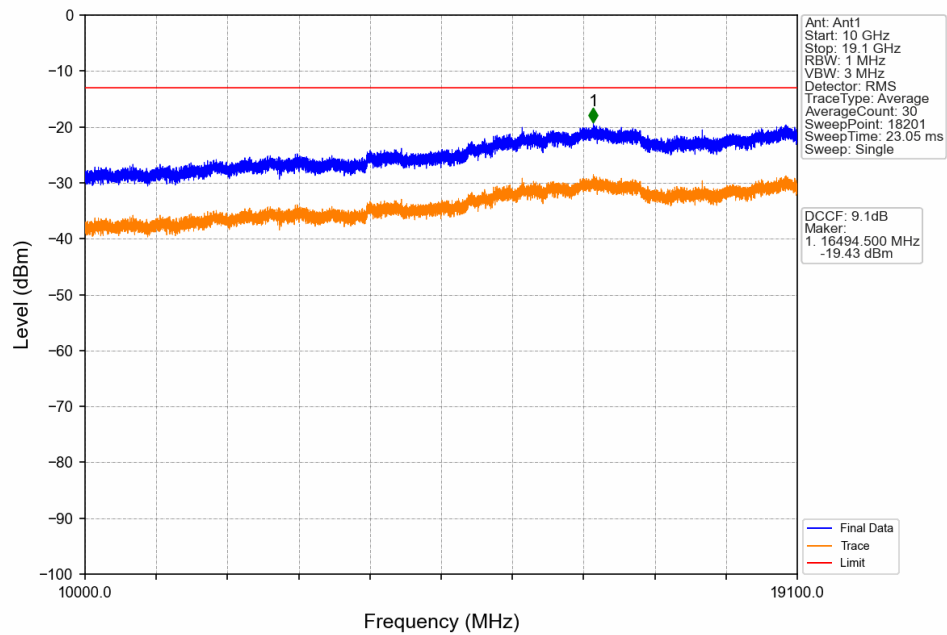
PCS1900 GPRS HCH 1909.8MHz 1 TX Slot NTNV



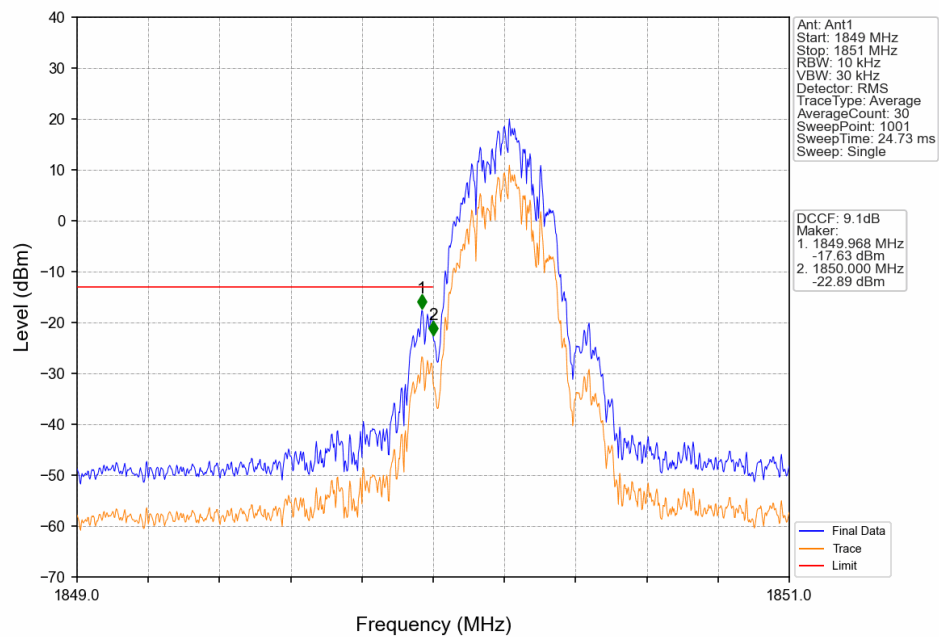
PCS1900 GPRS HCH 1909.8MHz 1 TX Slot NTNV



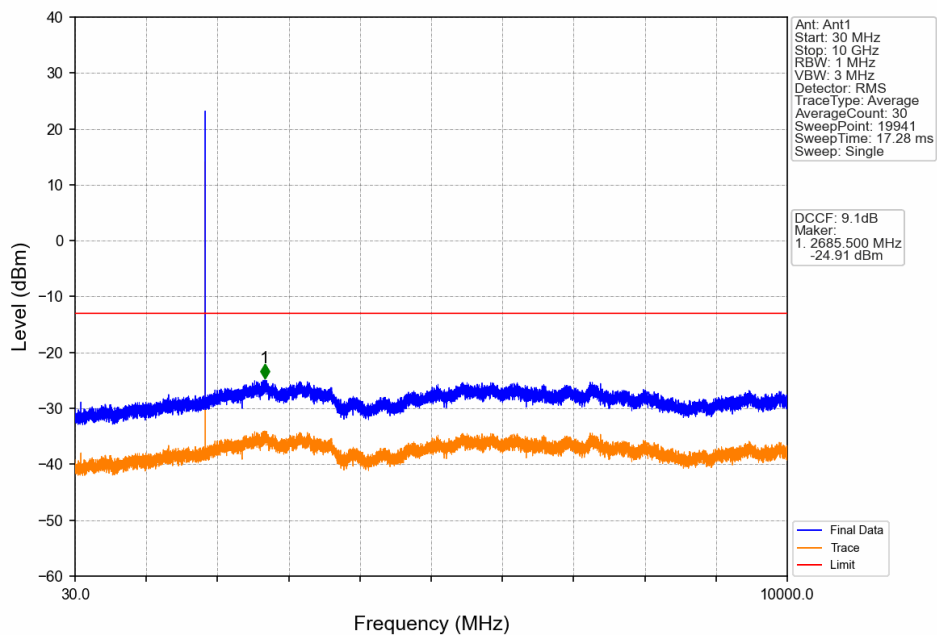
PCS1900 GPRS HCH 1909.8MHz 1 TX Slot NTN



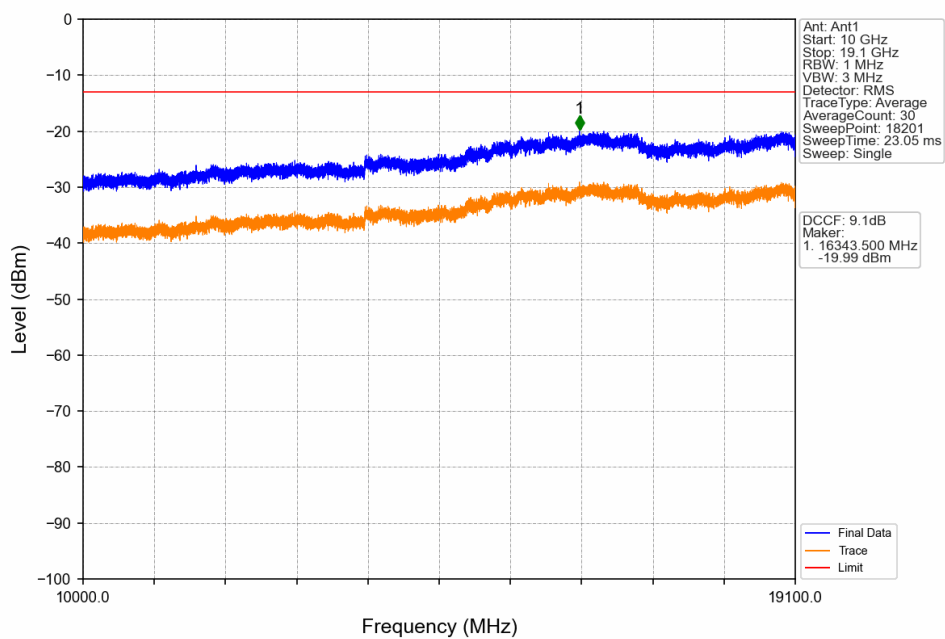
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot NTN



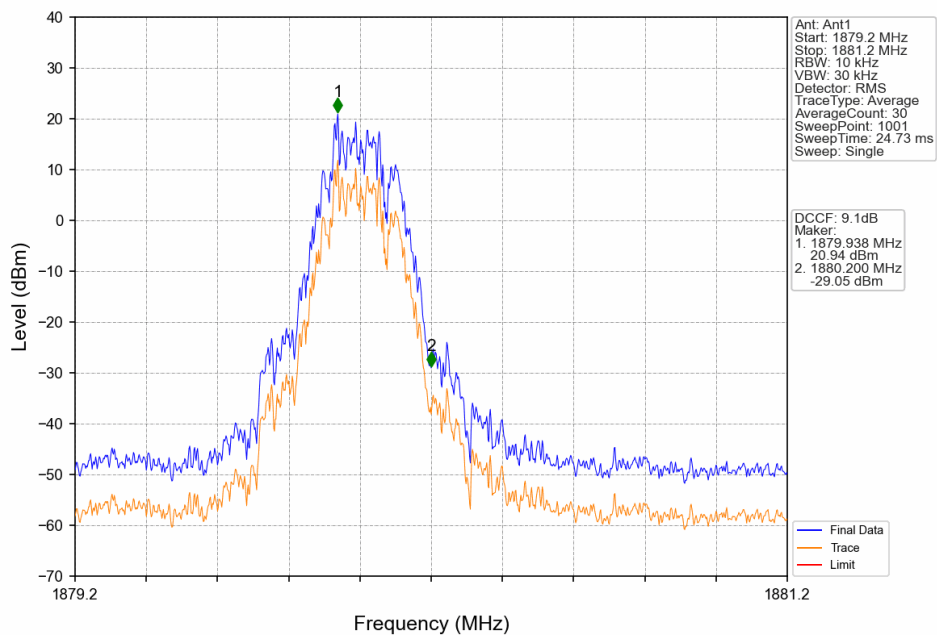
PCS1900 EGPRS LCH 1850.2MHz 1 TX Slot NTN



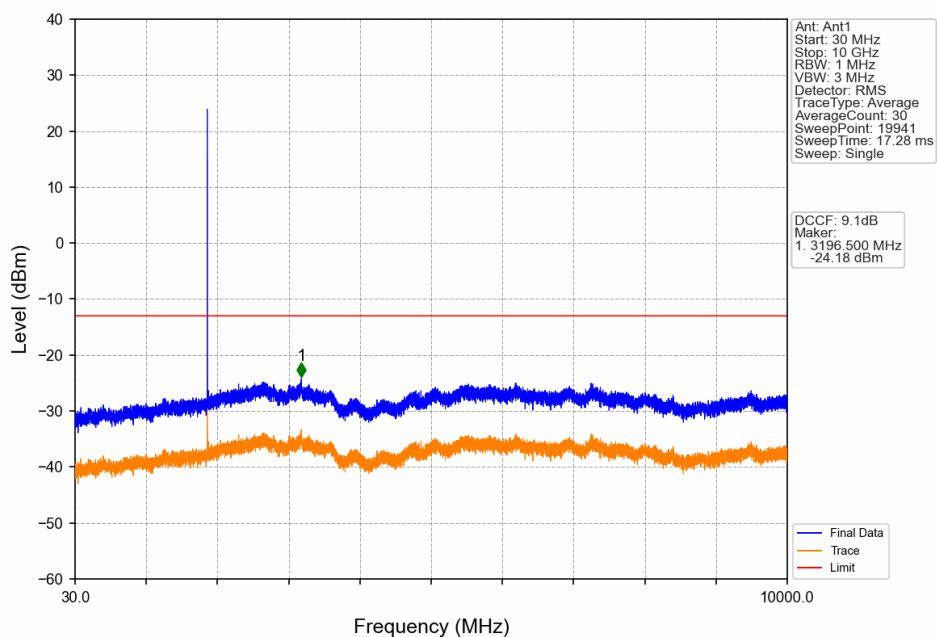
PCS1900 EGPRS LCH 1850.2MHz 1 TX Slot NTN



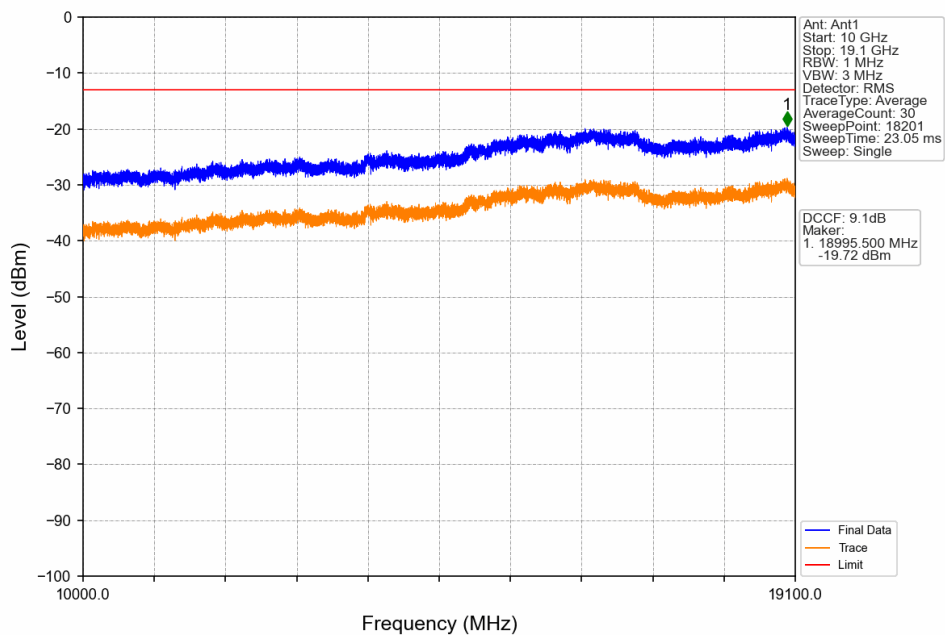
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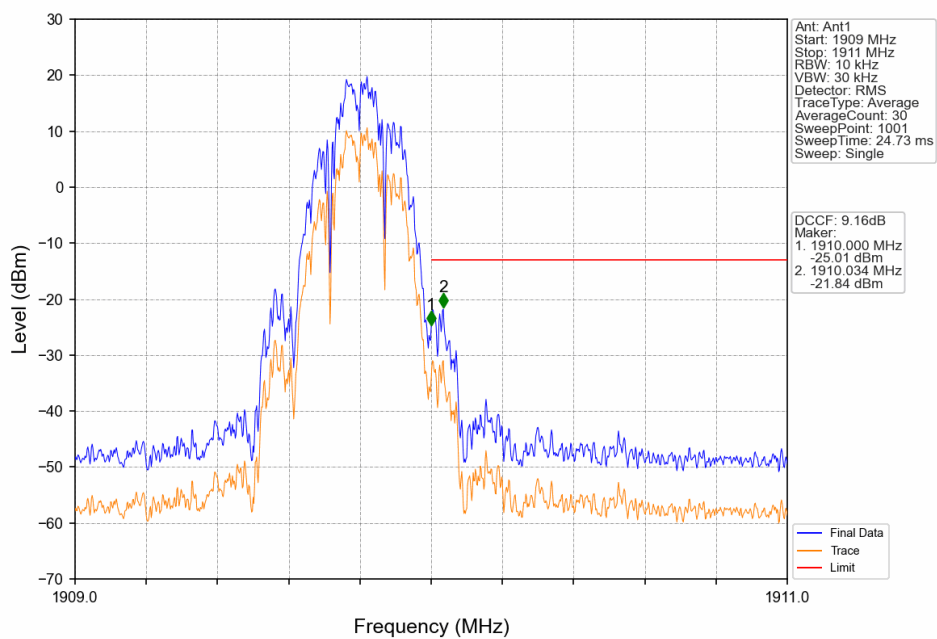
PCS1900 EGPRS MCH 1880MHz 1 TX Slot NTN



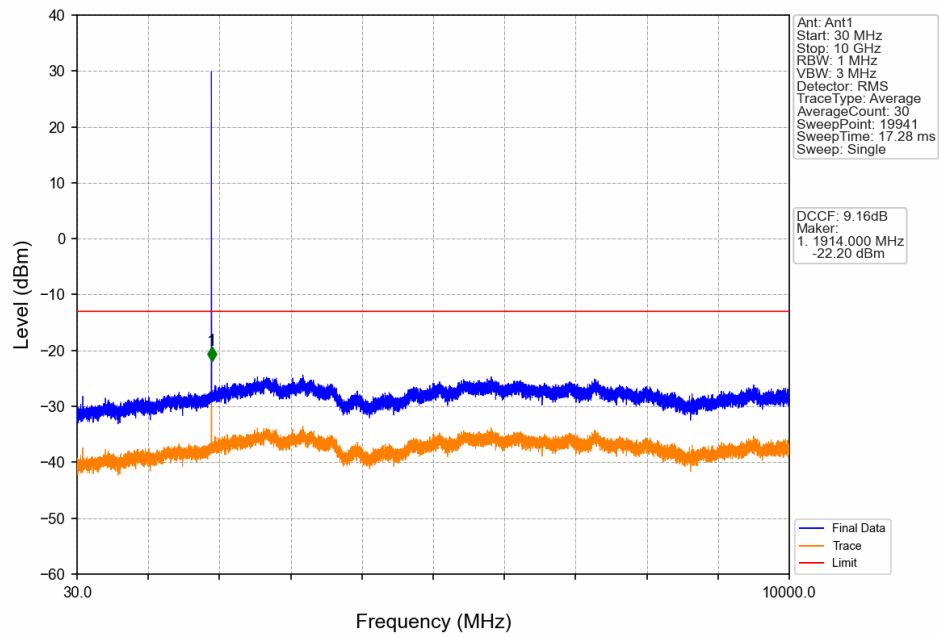
PCS1900 EGPRS MCH 1880MHz 1 TX Slot NTN



PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot NTN



PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot NTNV



PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot NTNV

