

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	30.32	2.63	32.95	<=33.01	Pass
		2 TX Slots	1850.2	29.33	2.63	31.96	<=33.01	Pass
		3 TX Slots	1850.2	27.42	2.63	30.05	<=33.01	Pass
		4 TX Slots	1850.2	26.50	2.63	29.13	<=33.01	Pass
		1 TX Slot	1880	30.26	2.63	32.89	<=33.01	Pass
		2 TX Slots	1880	29.22	2.63	31.85	<=33.01	Pass
		3 TX Slots	1880	27.18	2.63	29.81	<=33.01	Pass
		4 TX Slots	1880	26.23	2.63	28.86	<=33.01	Pass
		1 TX Slot	1909.8	30.24	2.63	32.87	<=33.01	Pass
		2 TX Slots	1909.8	29.13	2.63	31.76	<=33.01	Pass
		3 TX Slots	1909.8	27.02	2.63	29.65	<=33.01	Pass
		4 TX Slots	1909.8	26.02	2.63	28.65	<=33.01	Pass
	EGPRS	1 TX Slot	1850.2	26.63	2.63	29.26	<=33.01	Pass
		2 TX Slots	1850.2	25.79	2.63	28.42	<=33.01	Pass
		3 TX Slots	1850.2	23.71	2.63	26.34	<=33.01	Pass
		4 TX Slots	1850.2	22.38	2.63	25.01	<=33.01	Pass
		1 TX Slot	1880	27.11	2.63	29.74	<=33.01	Pass
		2 TX Slots	1880	26.19	2.63	28.82	<=33.01	Pass
		3 TX Slots	1880	24.27	2.63	26.90	<=33.01	Pass
		4 TX Slots	1880	22.85	2.63	25.48	<=33.01	Pass
		1 TX Slot	1909.8	27.12	2.63	29.75	<=33.01	Pass
		2 TX Slots	1909.8	26.15	2.63	28.78	<=33.01	Pass
		3 TX Slots	1909.8	24.15	2.63	26.78	<=33.01	Pass
		4 TX Slots	1909.8	22.74	2.63	25.37	<=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	3.40	-9.040	-0.0049	-2.5 to 2.5	Pass
			3.60	-13.754	-0.0074	-2.5 to 2.5	Pass
			4.20	-4.229	-0.0023	-2.5 to 2.5	Pass
		-30	3.60	-4.843	-0.0026	-2.5 to 2.5	Pass
		-20	3.60	-9.331	-0.0050	-2.5 to 2.5	Pass
		-10	3.60	-14.012	-0.0076	-2.5 to 2.5	Pass
		0	3.60	-15.755	-0.0085	-2.5 to 2.5	Pass
		10	3.60	-9.815	-0.0053	-2.5 to 2.5	Pass
		30	3.60	-6.619	-0.0036	-2.5 to 2.5	Pass
		40	3.60	-6.199	-0.0034	-2.5 to 2.5	Pass
		50	3.60	3.261	0.0018	-2.5 to 2.5	Pass
	1880	20	3.40	1.130	0.0006	-2.5 to 2.5	Pass
			3.60	0.517	0.0003	-2.5 to 2.5	Pass
			4.20	-4.940	-0.0026	-2.5 to 2.5	Pass
		-30	3.60	-6.522	-0.0035	-2.5 to 2.5	Pass
		-20	3.60	-7.361	-0.0039	-2.5 to 2.5	Pass
		-10	3.60	-0.517	-0.0003	-2.5 to 2.5	Pass
		0	3.60	6.909	0.0037	-2.5 to 2.5	Pass
		10	3.60	1.162	0.0006	-2.5 to 2.5	Pass
		30	3.60	4.972	0.0026	-2.5 to 2.5	Pass
		40	3.60	2.421	0.0013	-2.5 to 2.5	Pass
		50	3.60	2.325	0.0012	-2.5 to 2.5	Pass
	1909.8	20	3.40	13.140	0.0069	-2.5 to 2.5	Pass
			3.60	6.167	0.0032	-2.5 to 2.5	Pass
			4.20	-14.981	-0.0078	-2.5 to 2.5	Pass
		-30	3.60	-0.097	-0.0001	-2.5 to 2.5	Pass
		-20	3.60	13.076	0.0068	-2.5 to 2.5	Pass
		-10	3.60	-13.560	-0.0071	-2.5 to 2.5	Pass
		0	3.60	-10.331	-0.0054	-2.5 to 2.5	Pass
		10	3.60	-14.303	-0.0075	-2.5 to 2.5	Pass
		30	3.60	-7.297	-0.0038	-2.5 to 2.5	Pass
		40	3.60	-11.332	-0.0059	-2.5 to 2.5	Pass
		50	3.60	-8.846	-0.0046	-2.5 to 2.5	Pass
EGPRS	1850.2	20	3.40	-13.754	-0.0074	-2.5 to 2.5	Pass
			3.60	-6.231	-0.0034	-2.5 to 2.5	Pass
			4.20	-5.392	-0.0029	-2.5 to 2.5	Pass
		-30	3.60	-16.111	-0.0087	-2.5 to 2.5	Pass
		-20	3.60	-4.907	-0.0027	-2.5 to 2.5	Pass
		-10	3.60	-15.077	-0.0081	-2.5 to 2.5	Pass
		0	3.60	-12.043	-0.0065	-2.5 to 2.5	Pass
		10	3.60	-14.238	-0.0077	-2.5 to 2.5	Pass
		30	3.60	-18.048	-0.0098	-2.5 to 2.5	Pass
		40	3.60	-18.694	-0.0101	-2.5 to 2.5	Pass
		50	3.60	-5.553	-0.0030	-2.5 to 2.5	Pass

	1880	20	3.40	-15.917	-0.0085	-2.5 to 2.5	Pass
			3.60	-11.365	-0.0060	-2.5 to 2.5	Pass
			4.20	-9.298	-0.0049	-2.5 to 2.5	Pass
		-30	3.60	-0.194	-0.0001	-2.5 to 2.5	Pass
		-20	3.60	-4.262	-0.0023	-2.5 to 2.5	Pass
		-10	3.60	-28.767	-0.0153	-2.5 to 2.5	Pass
		0	3.60	-24.634	-0.0131	-2.5 to 2.5	Pass
		10	3.60	-22.051	-0.0117	-2.5 to 2.5	Pass
		30	3.60	-10.848	-0.0058	-2.5 to 2.5	Pass
		40	3.60	-9.653	-0.0051	-2.5 to 2.5	Pass
		50	3.60	-10.654	-0.0057	-2.5 to 2.5	Pass
	1909.8	20	3.40	-18.048	-0.0095	-2.5 to 2.5	Pass
			3.60	-9.912	-0.0052	-2.5 to 2.5	Pass
			4.20	-7.716	-0.0040	-2.5 to 2.5	Pass
		-30	3.60	-21.083	-0.0110	-2.5 to 2.5	Pass
		-20	3.60	-11.268	-0.0059	-2.5 to 2.5	Pass
		-10	3.60	-7.684	-0.0040	-2.5 to 2.5	Pass
		0	3.60	-15.723	-0.0082	-2.5 to 2.5	Pass
		10	3.60	-18.694	-0.0098	-2.5 to 2.5	Pass
		30	3.60	-11.526	-0.0060	-2.5 to 2.5	Pass
		40	3.60	-16.563	-0.0087	-2.5 to 2.5	Pass
		50	3.60	-16.466	-0.0086	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 PCS1900_OBW

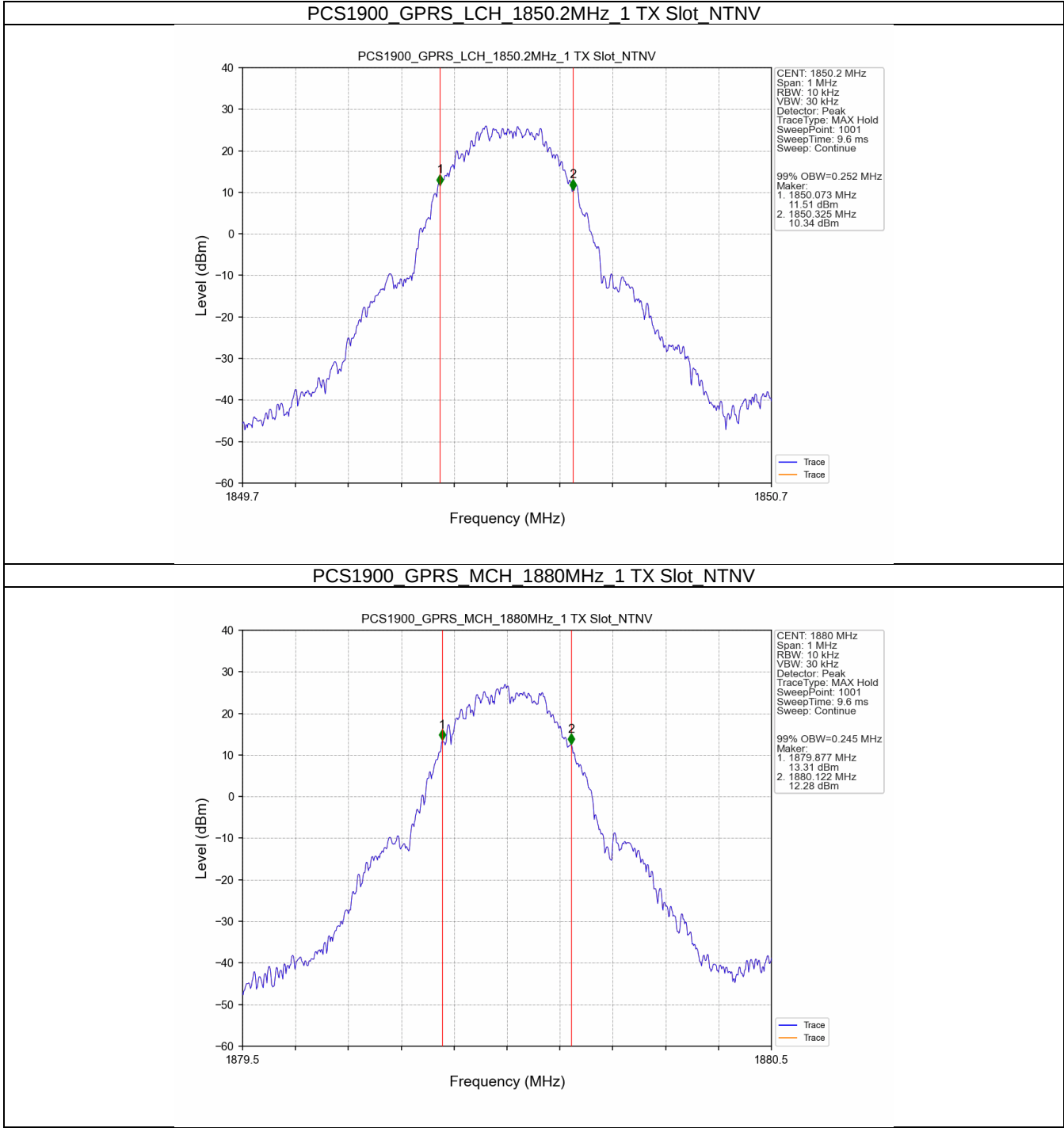
Band: PCS1900						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	0.252	/	Pass
			1880	0.245	/	Pass
			1909.8	0.241	/	Pass
	EGPRS	1 TX Slot	1850.2	0.246	/	Pass
			1880	0.245	/	Pass
			1909.8	0.241	/	Pass

3.1.2 PCS1900_XDB

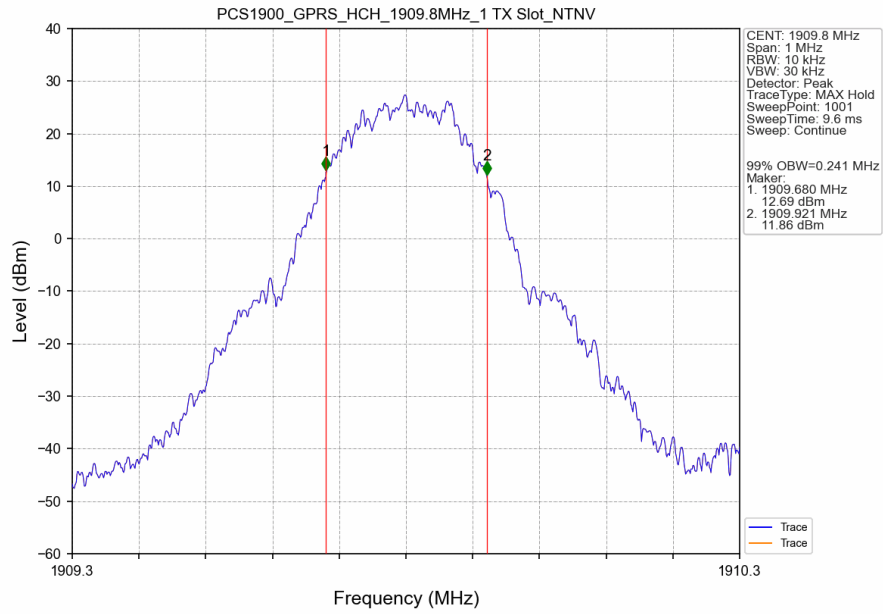
Band: PCS1900						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	0.326	/	Pass
			1880	0.314	/	Pass
			1909.8	0.308	/	Pass
	EGPRS	1 TX Slot	1850.2	0.305	/	Pass
			1880	0.312	/	Pass
			1909.8	0.297	/	Pass

3.2 Test Graph

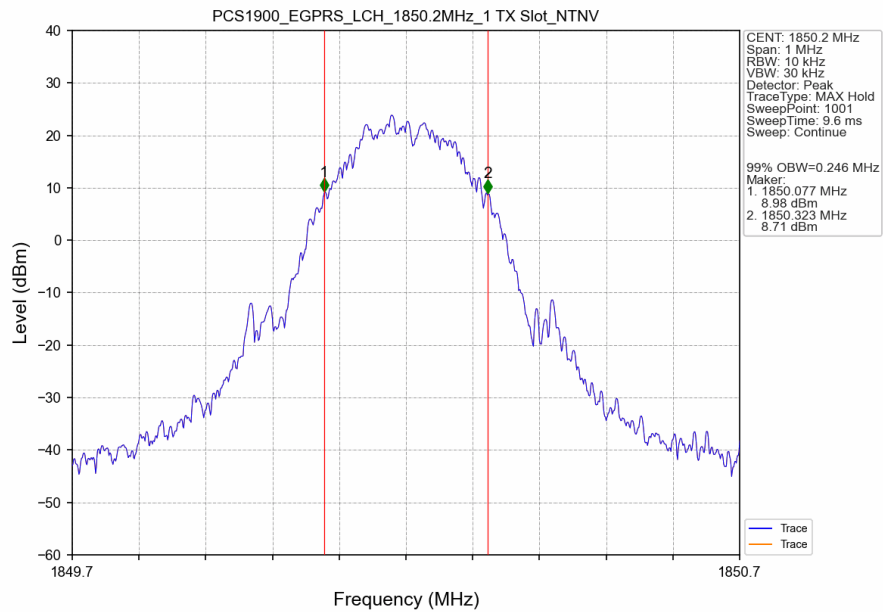
3.2.1 PCS1900_OBW



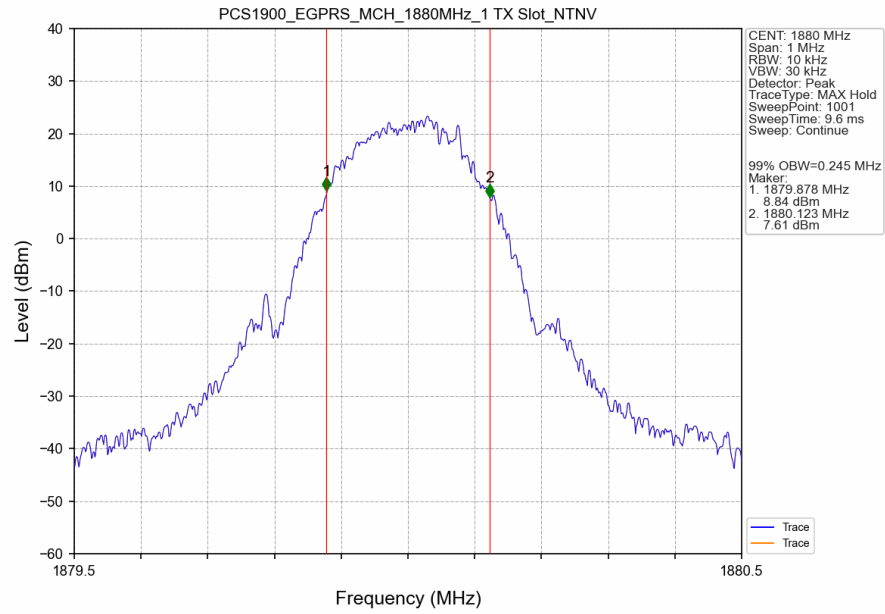
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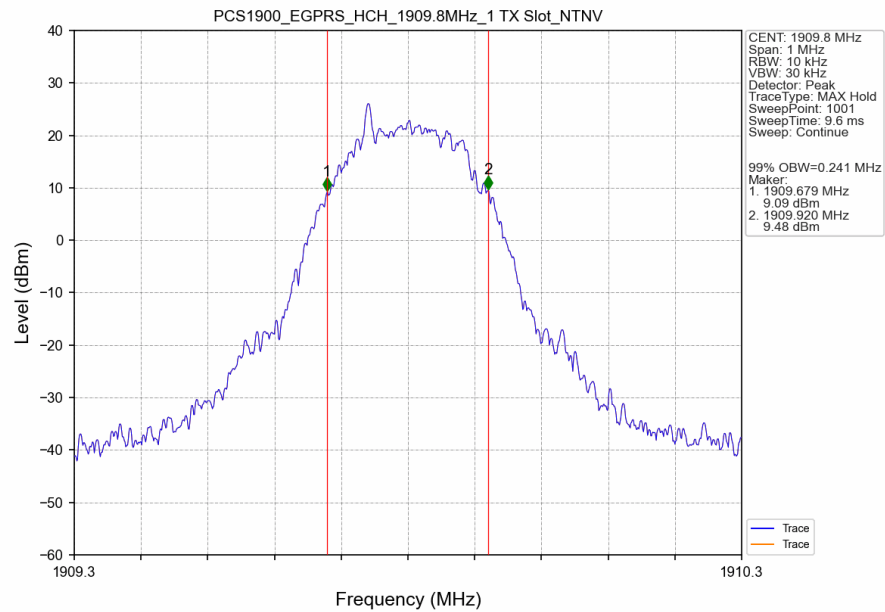
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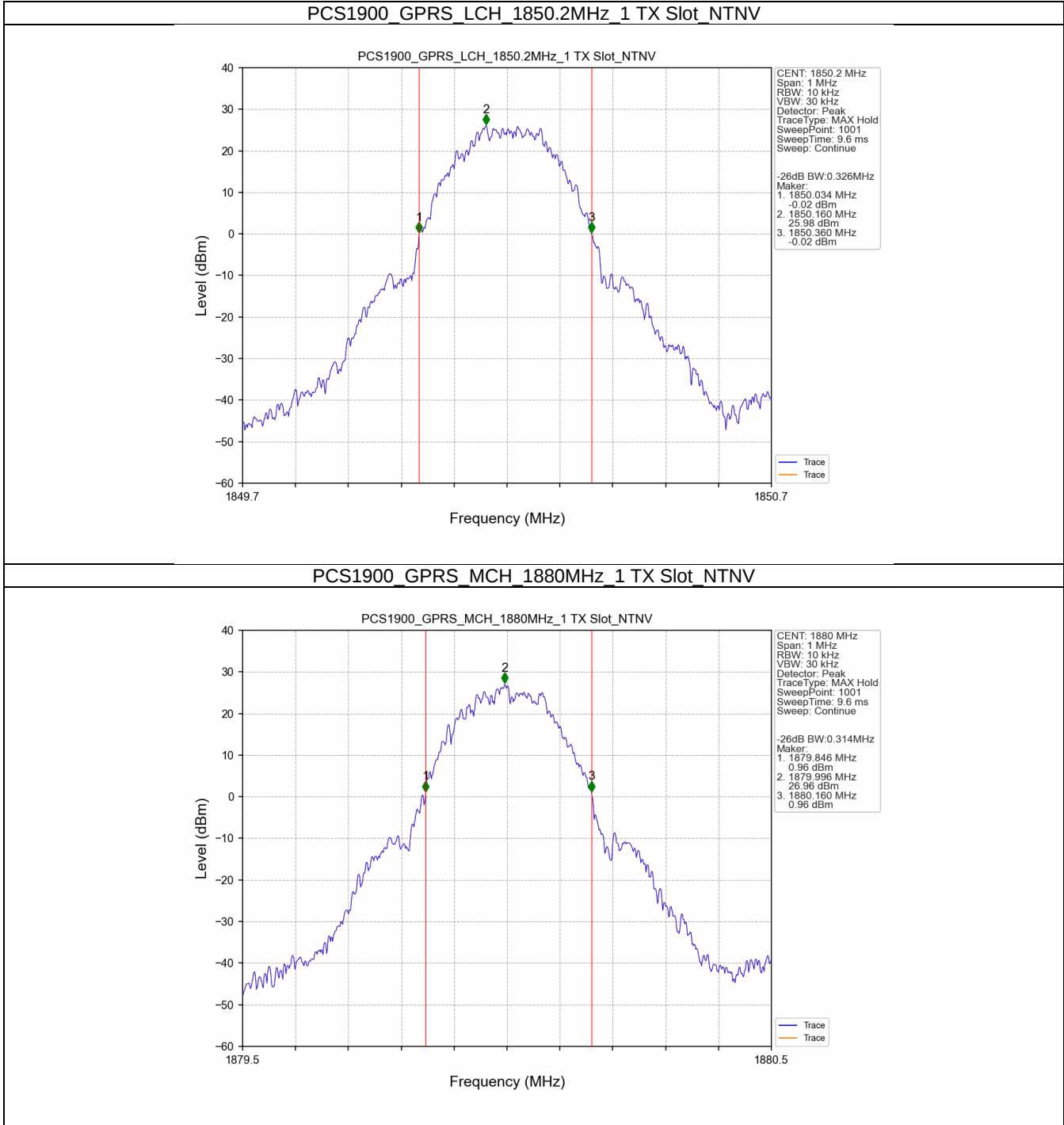
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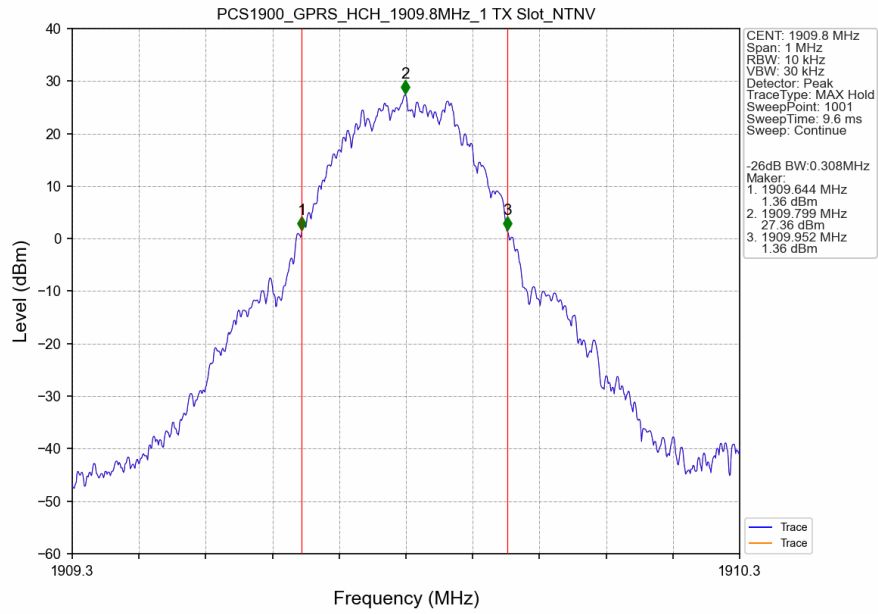
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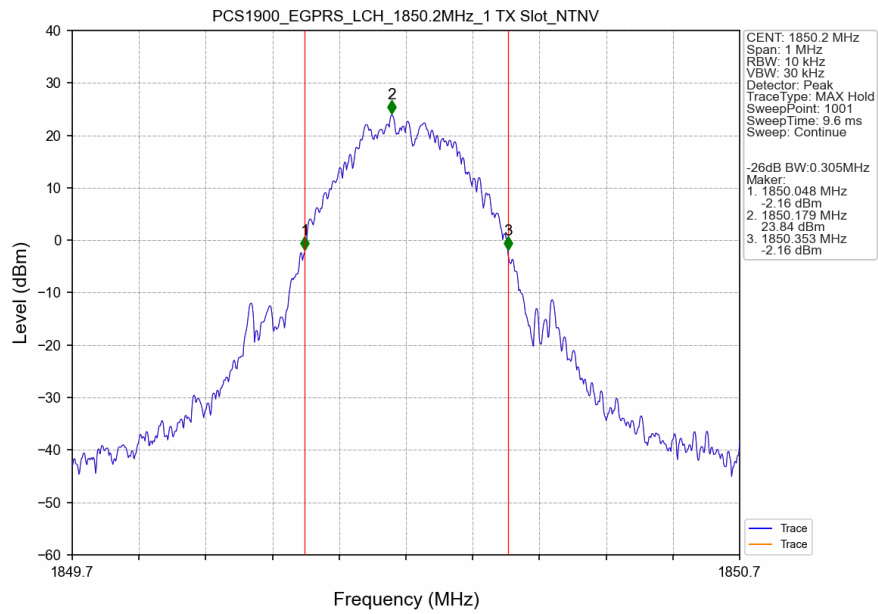
3.2.2 PCS1900_XDB



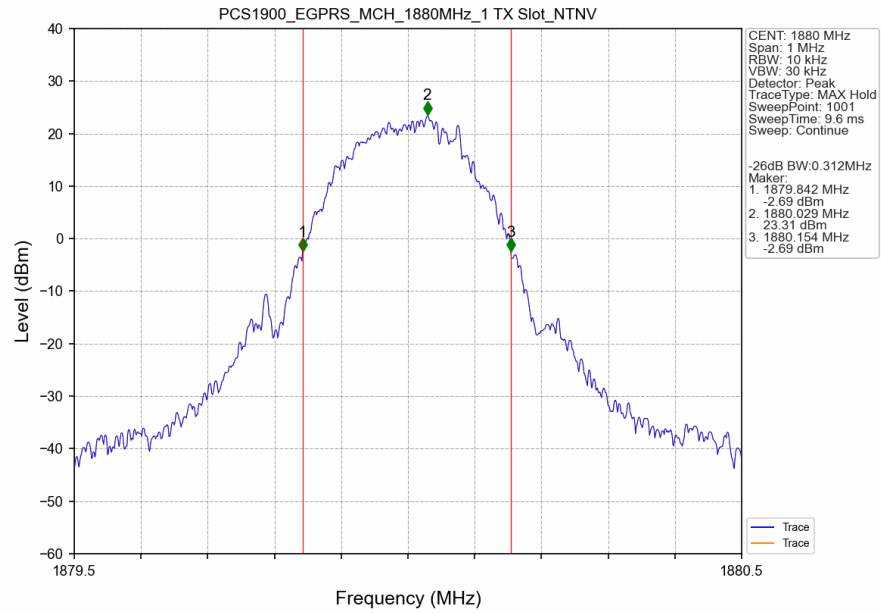
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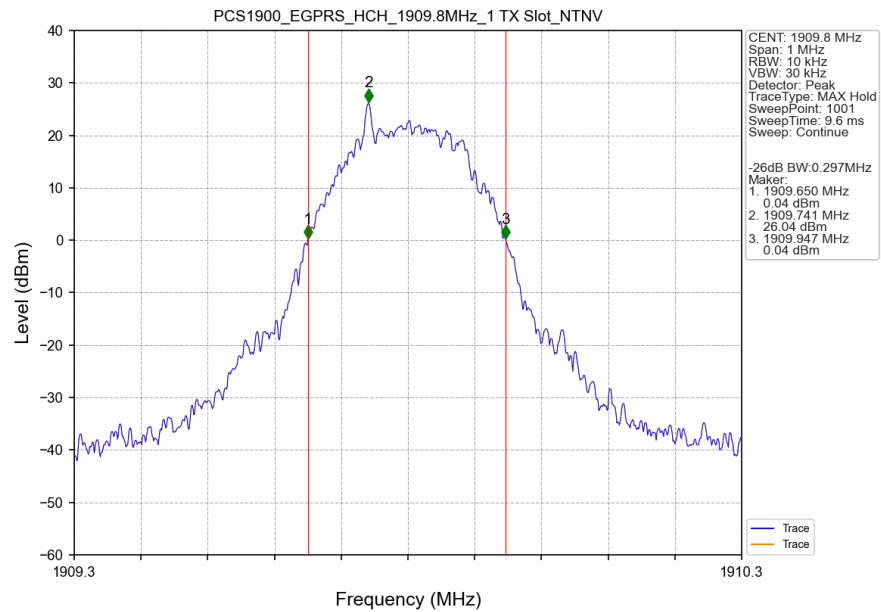
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



4. Peak-Average Ratio

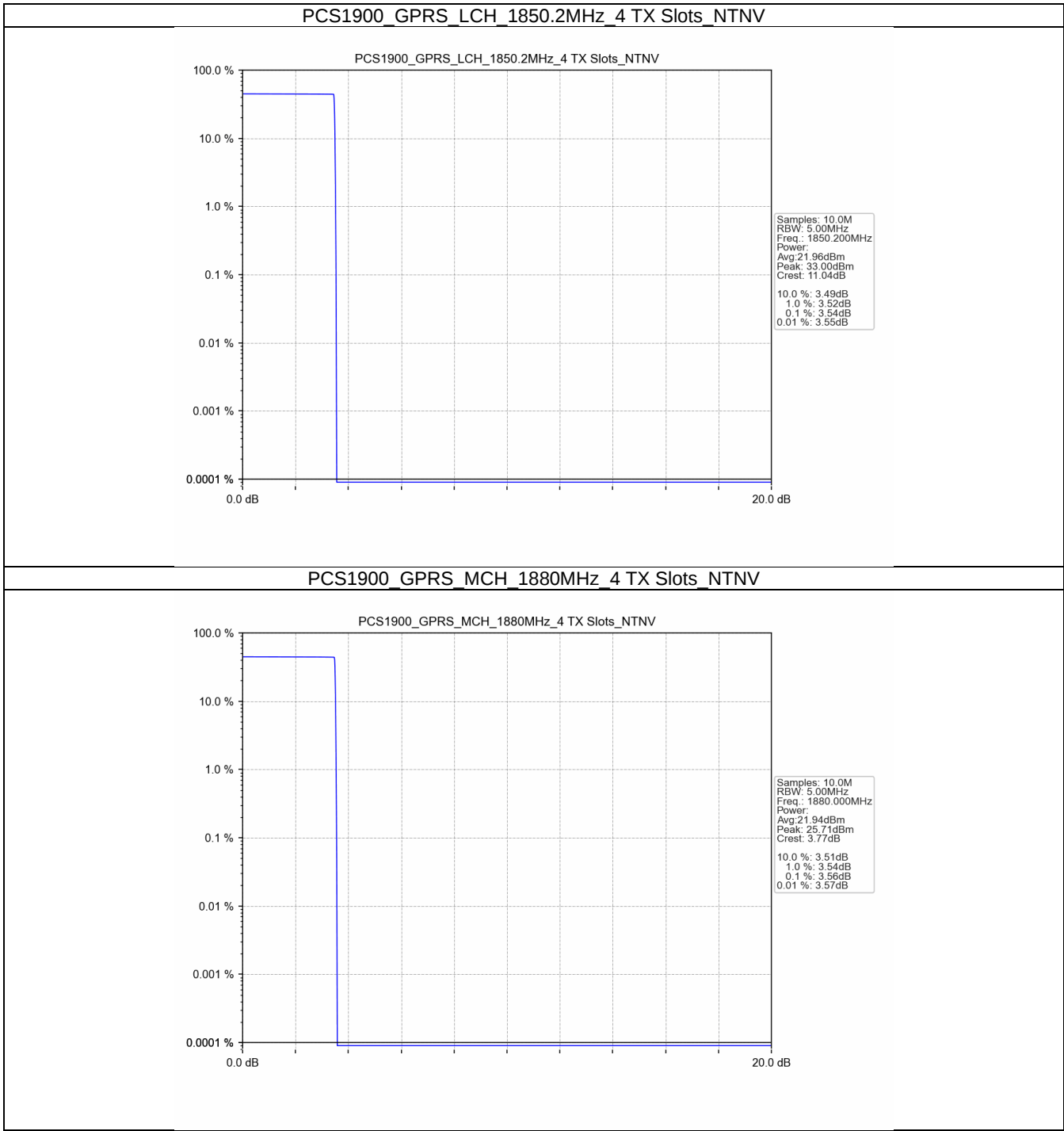
4.1 Test Result

4.1.1 PCS1900

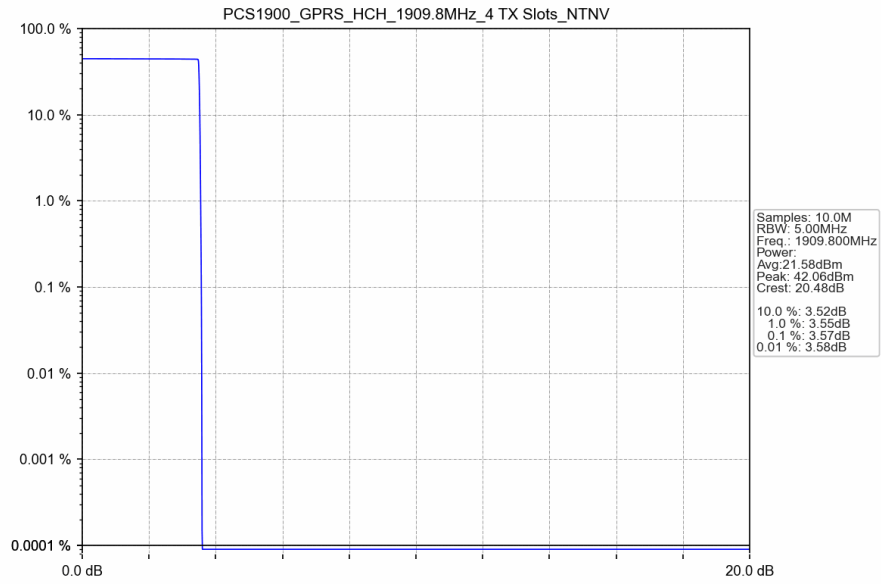
Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	1850.2	3.54	<=13	Pass
			1880	3.56	<=13	Pass
			1909.8	3.57	<=13	Pass
	EGPRS	4 TX Slots	1850.2	8.48	<=13	Pass
			1880	7.13	<=13	Pass
			1909.8	7.66	<=13	Pass

4.2 Test Graph

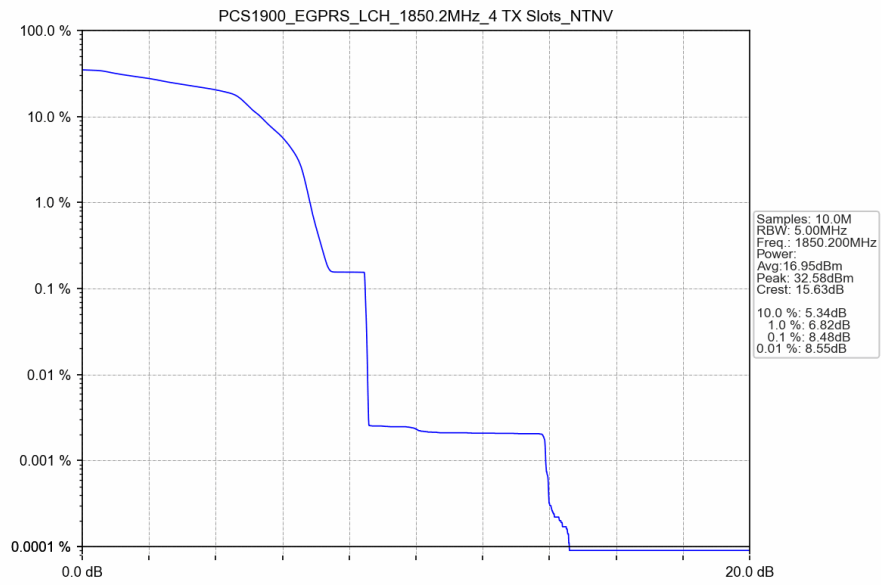
4.2.1 PCS1900



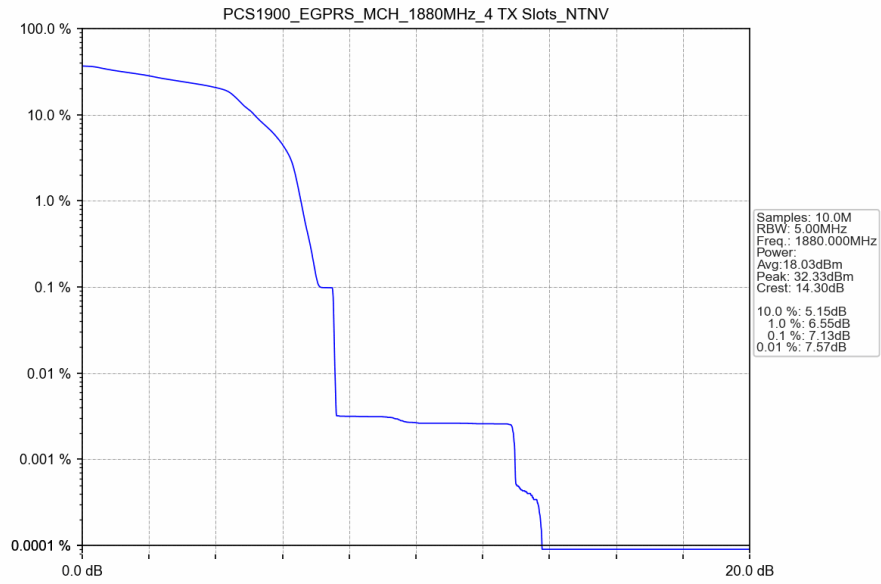
PCS1900_GPRS_HCH_1909.8MHz_4 TX Slots_NTNV



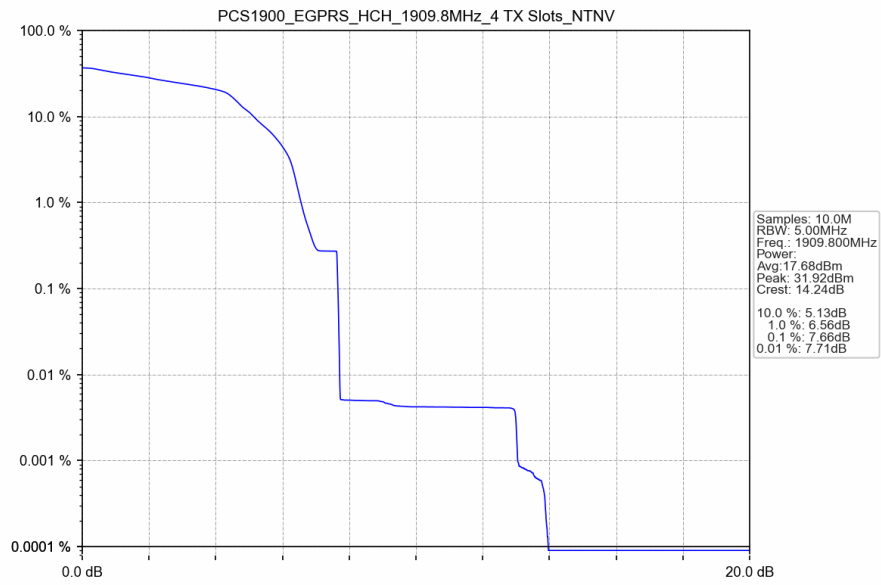
PCS1900_EGPRS_LCH_1850.2MHz_4 TX Slots_NTNV



PCS1900 EGPRS MCH 1880MHz 4 TX Slots_NTNV



PCS1900 EGPRS HCH 1909.8MHz 4 TX Slots_NTNV



5. Spurious Emission

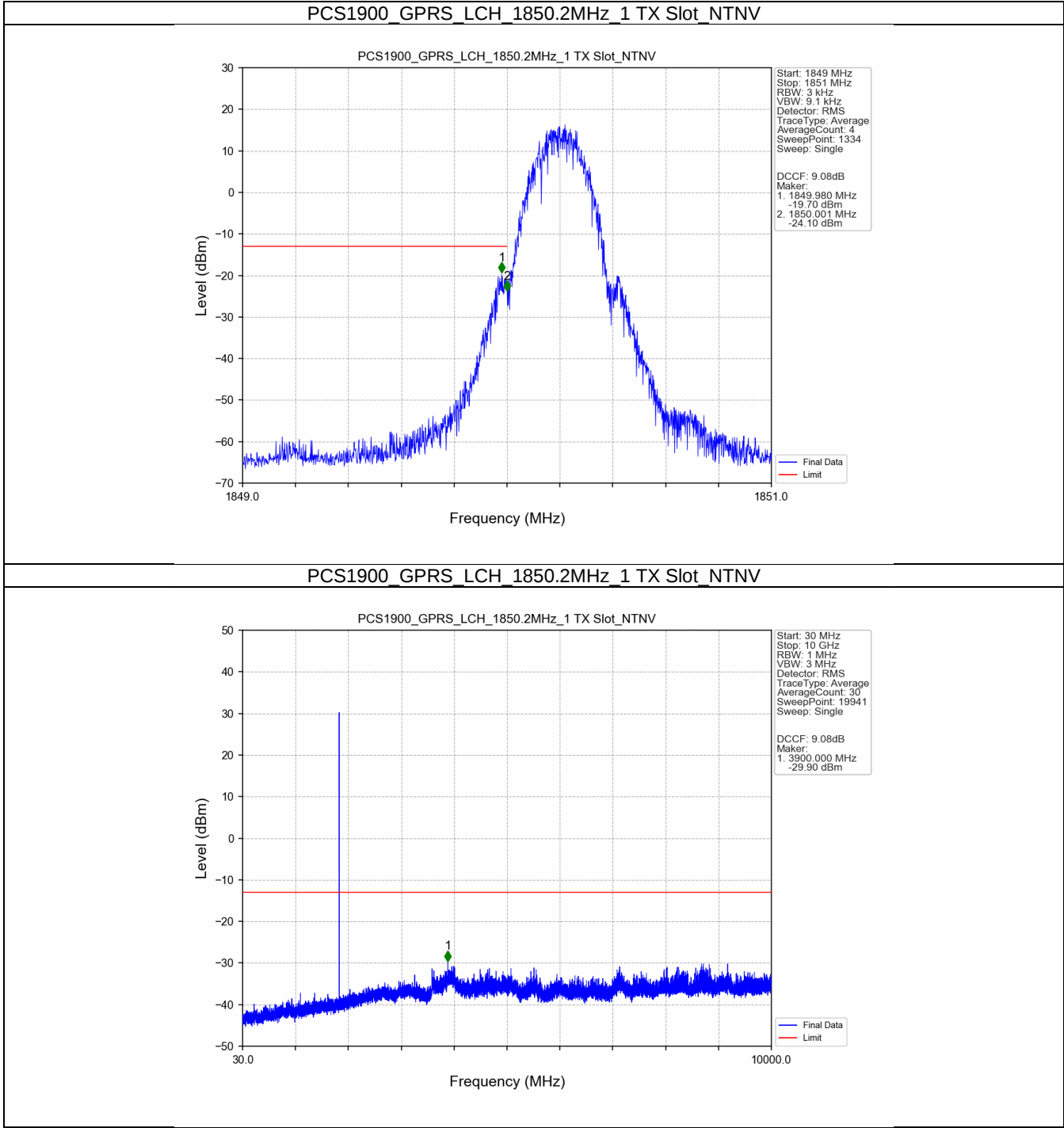
5.1 Test Result

5.1.1 PCS1900

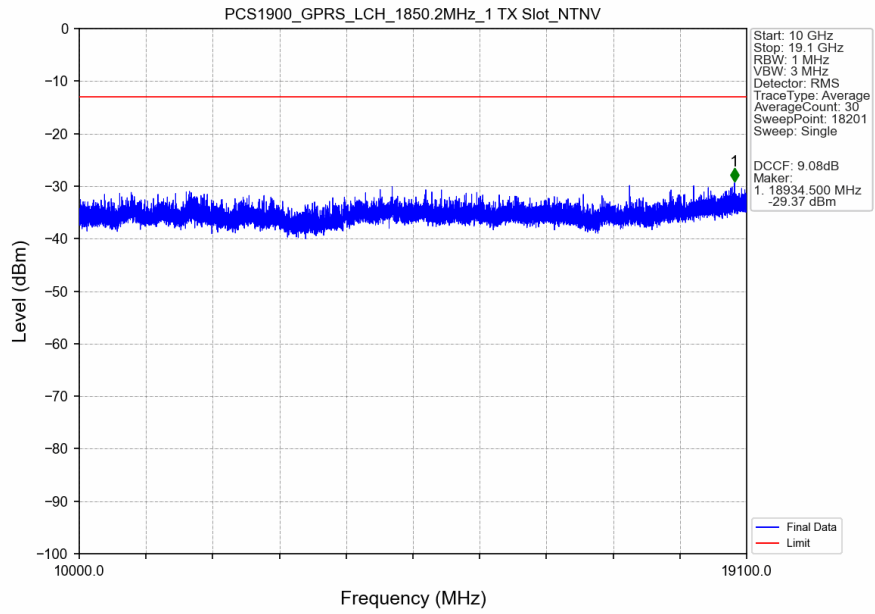
Band: PCS1900						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	Refer To Test Graph		Pass
			1880	Refer To Test Graph		Pass
			1909.8	Refer To Test Graph		Pass
	EGPRS	1 TX Slot	1850.2	Refer To Test Graph		Pass
			1880	Refer To Test Graph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

5.2 Test Graph

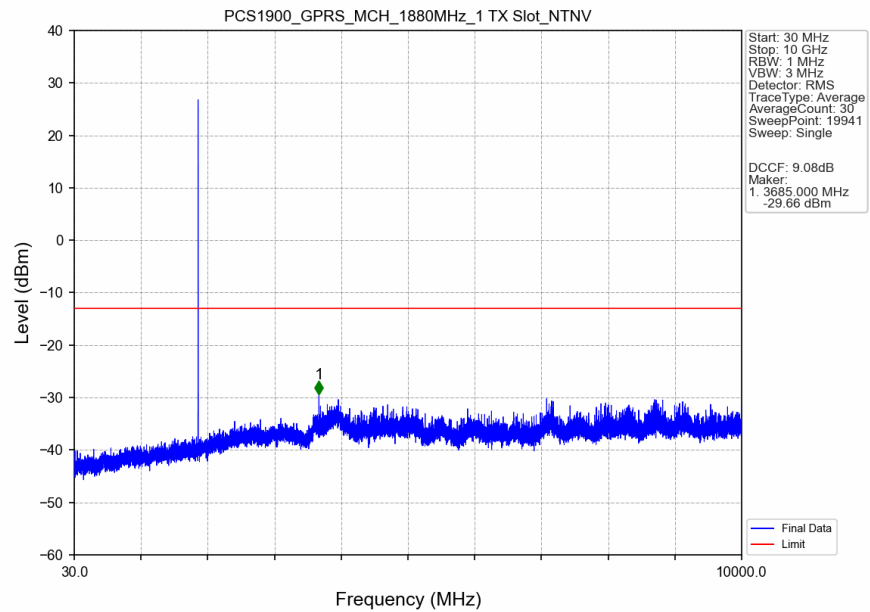
5.2.1 PCS1900



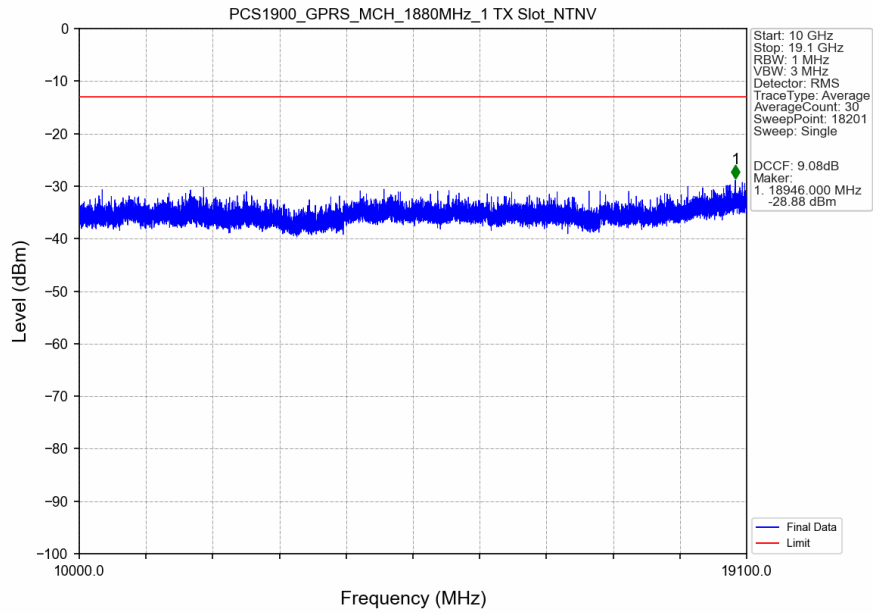
PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



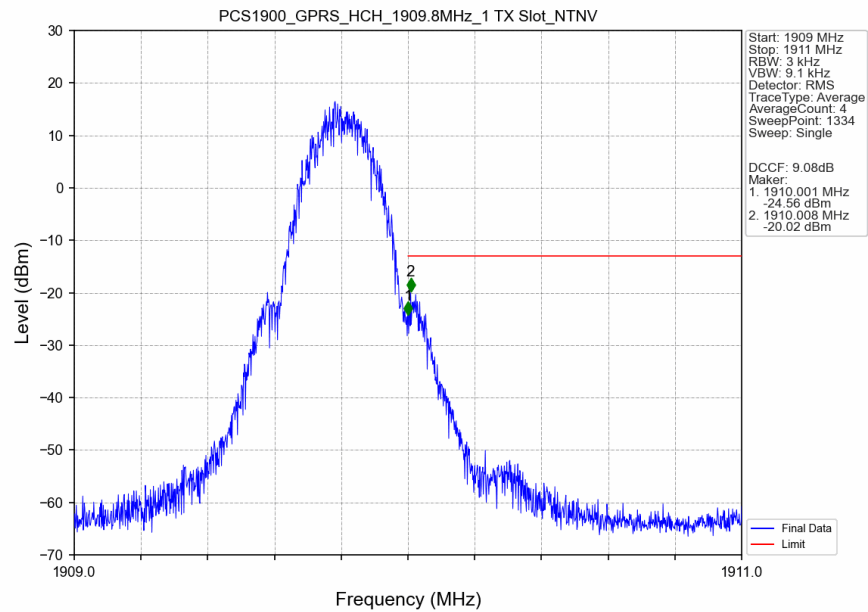
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



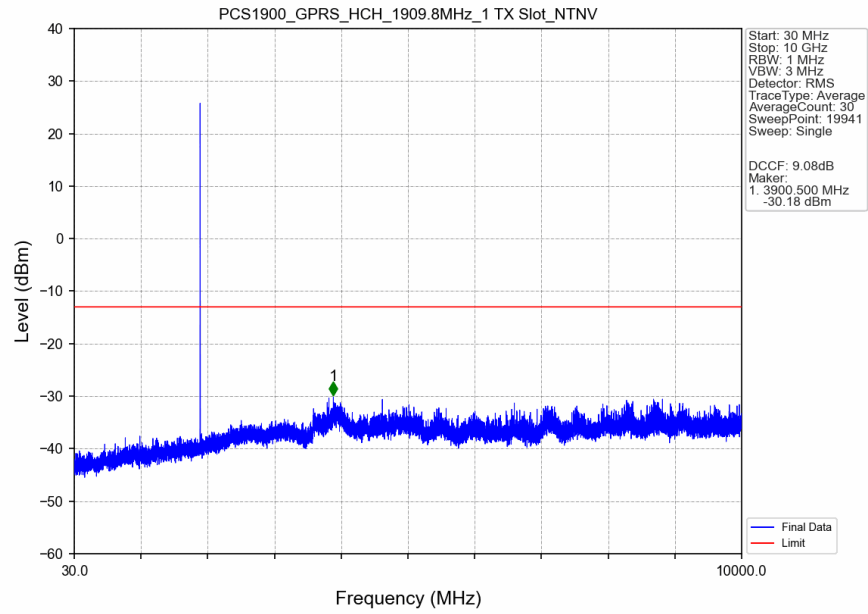
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



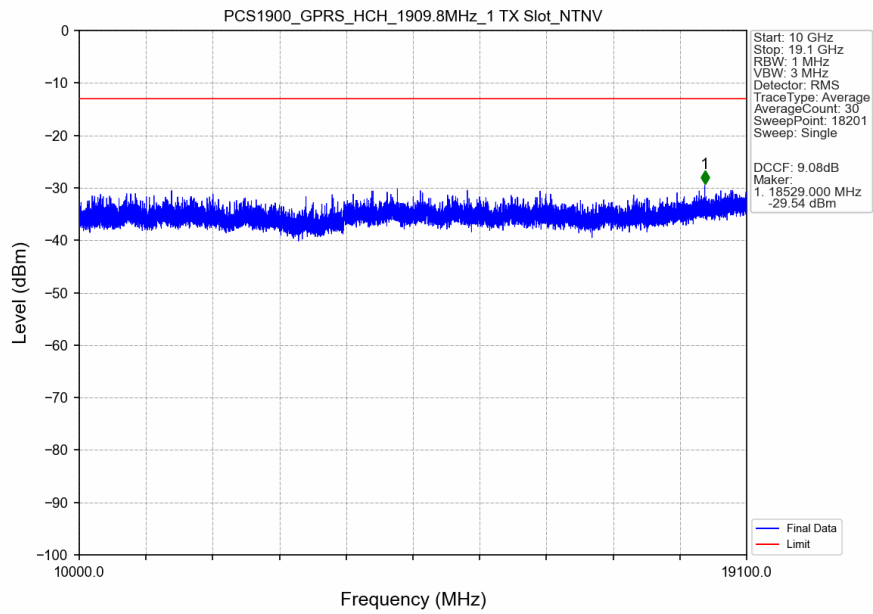
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



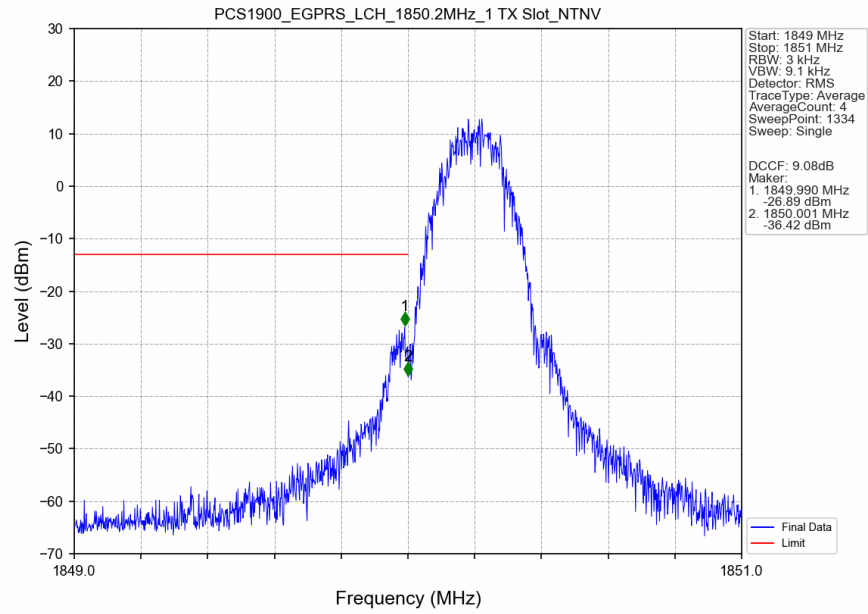
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



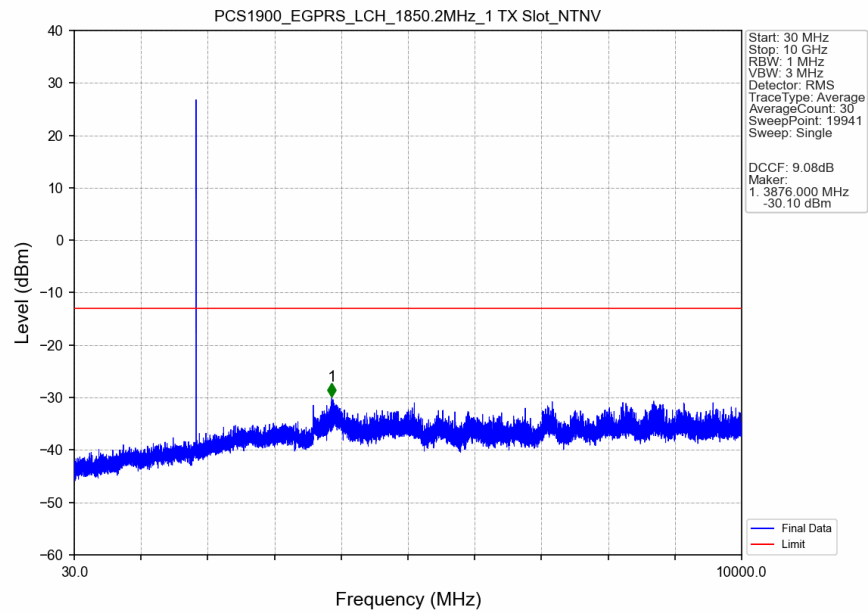
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



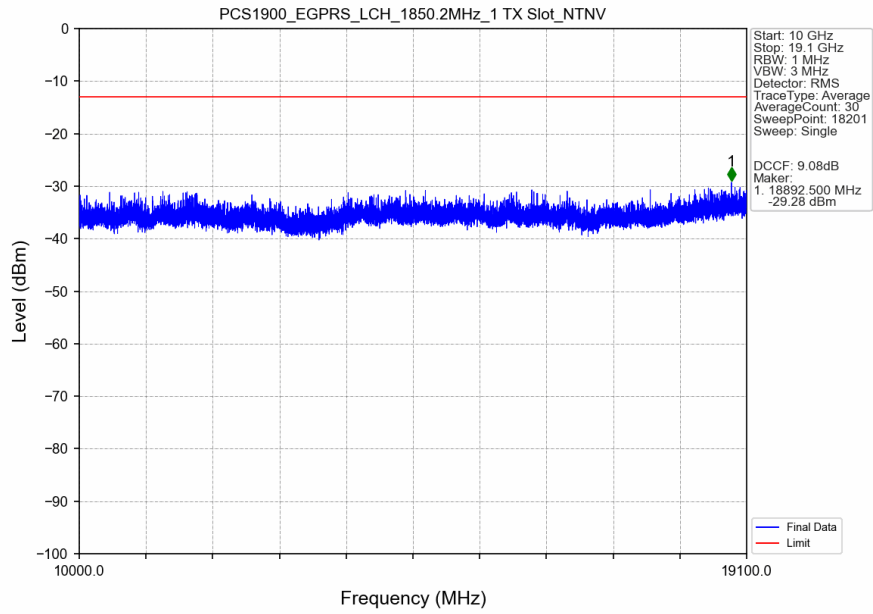
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



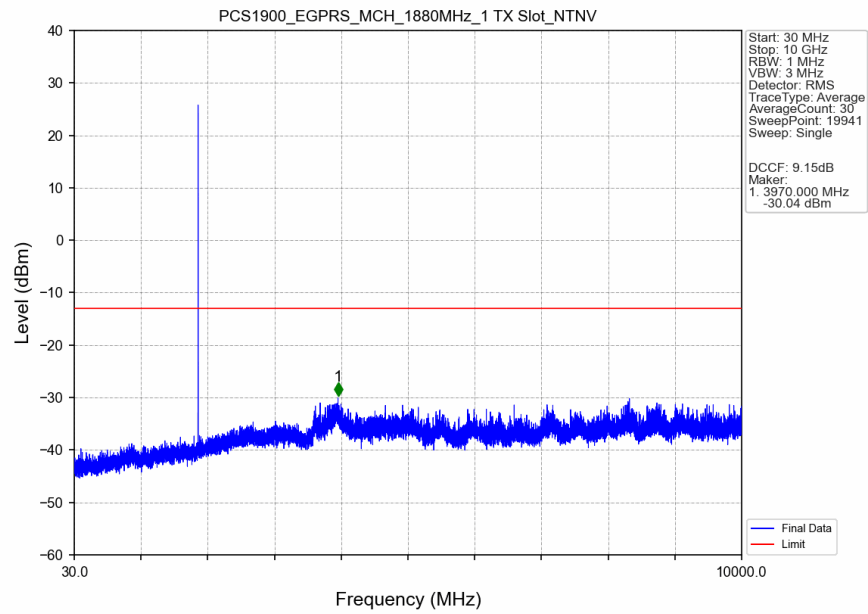
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



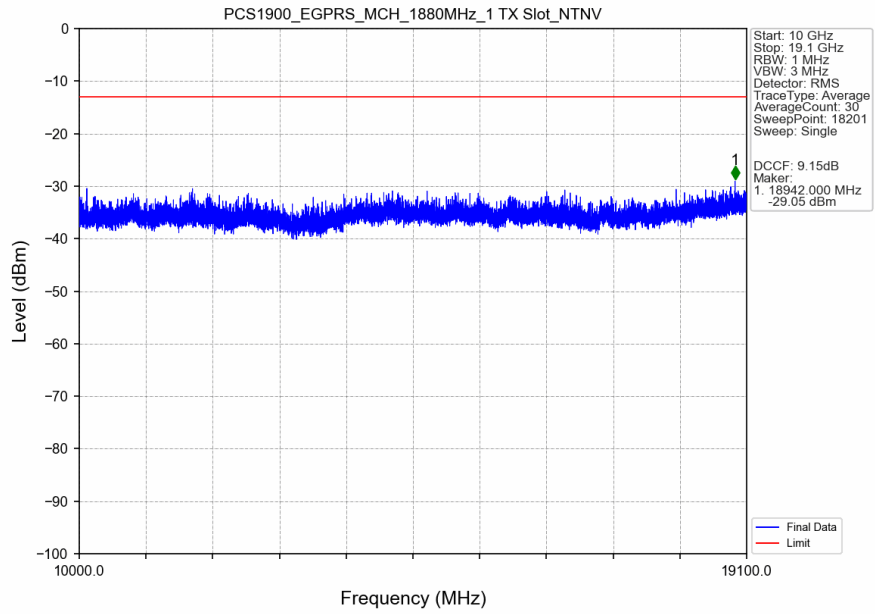
PCS1900 EGPRS LCH 1850.2MHz 1 TX Slot_NTNV



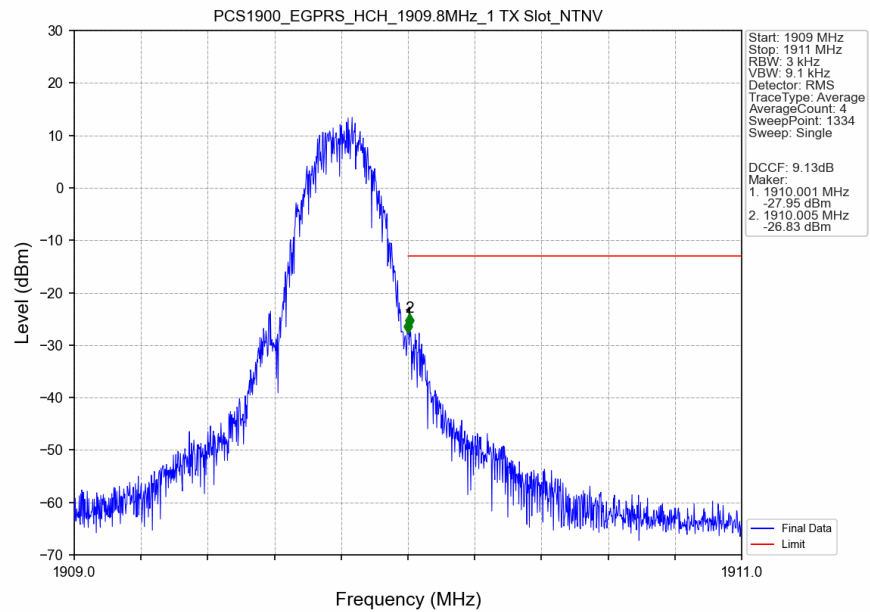
PCS1900 EGPRS MCH 1880MHz 1 TX Slot_NTNV



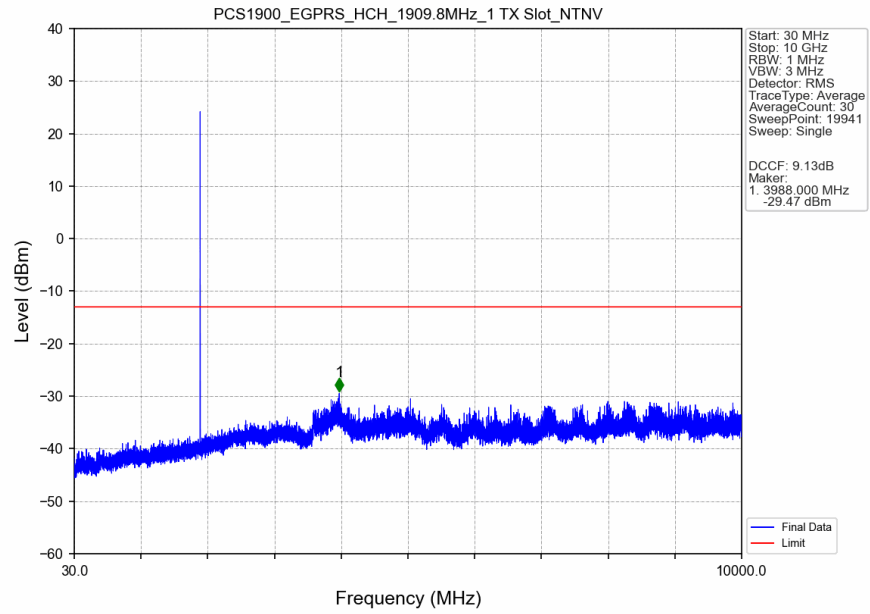
PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



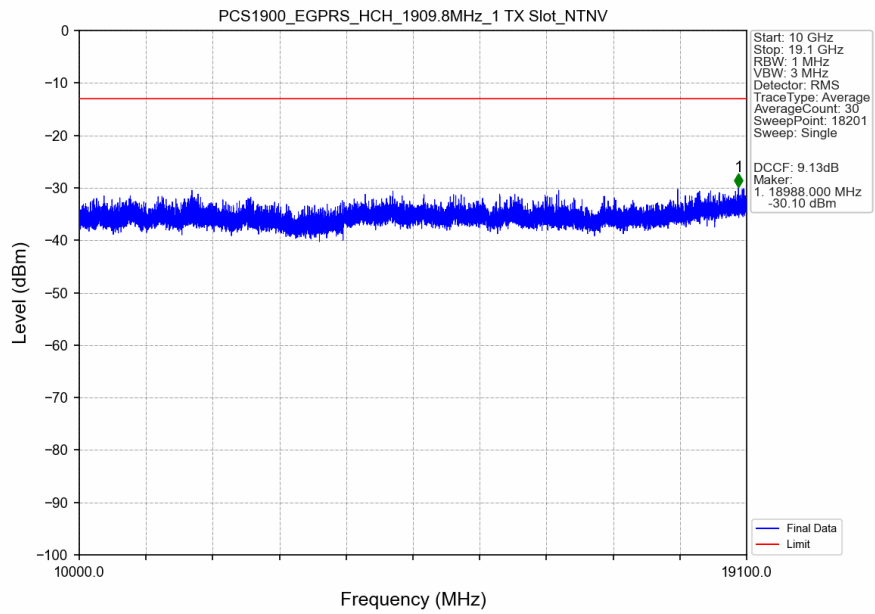
PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



PCS1900 EGPRS HCH 1909.8MHz_1 TX Slot_NTNV



PCS1900 EGPRS HCH 1909.8MHz_1 TX Slot_NTNV



-The End-