

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	30.61	2.19	32.80	<=33.01	Pass
		2 TX Slots	1850.2	27.52	2.19	29.71	<=33.01	Pass
		3 TX Slots	1850.2	25.98	2.19	28.17	<=33.01	Pass
		4 TX Slots	1850.2	23.89	2.19	26.08	<=33.01	Pass
		1 TX Slot	1880	30.39	2.19	32.58	<=33.01	Pass
		2 TX Slots	1880	26.95	2.19	29.14	<=33.01	Pass
		3 TX Slots	1880	25.40	2.19	27.59	<=33.01	Pass
		4 TX Slots	1880	23.23	2.19	25.42	<=33.01	Pass
		1 TX Slot	1909.8	30.39	2.19	32.58	<=33.01	Pass
		2 TX Slots	1909.8	26.46	2.19	28.65	<=33.01	Pass
		3 TX Slots	1909.8	24.84	2.19	27.03	<=33.01	Pass
		4 TX Slots	1909.8	22.71	2.19	24.90	<=33.01	Pass
	EGPRS	1 TX Slot	1850.2	26.11	2.19	28.30	<=33.01	Pass
		2 TX Slots	1850.2	24.43	2.19	26.62	<=33.01	Pass
		3 TX Slots	1850.2	22.09	2.19	24.28	<=33.01	Pass
		4 TX Slots	1850.2	20.68	2.19	22.87	<=33.01	Pass
		1 TX Slot	1880	26.15	2.19	28.34	<=33.01	Pass
		2 TX Slots	1880	24.38	2.19	26.57	<=33.01	Pass
		3 TX Slots	1880	22.24	2.19	24.43	<=33.01	Pass
		4 TX Slots	1880	20.12	2.19	22.31	<=33.01	Pass
		1 TX Slot	1909.8	27.11	2.19	29.30	<=33.01	Pass
		2 TX Slots	1909.8	23.75	2.19	25.94	<=33.01	Pass
		3 TX Slots	1909.8	21.79	2.19	23.98	<=33.01	Pass
		4 TX Slots	1909.8	19.63	2.19	21.82	<=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	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
GPRS	1850.2	20	LV	5.327	0.0029	-2.5 to 2.5	Pass
			NV	16.111	0.0087	-2.5 to 2.5	Pass
			HV	12.075	0.0065	-2.5 to 2.5	Pass
		-30	NV	9.750	0.0053	-2.5 to 2.5	Pass
		-20	NV	3.777	0.0020	-2.5 to 2.5	Pass
		-10	NV	12.462	0.0067	-2.5 to 2.5	Pass
		0	NV	3.099	0.0017	-2.5 to 2.5	Pass
		10	NV	28.153	0.0152	-2.5 to 2.5	Pass
		30	NV	6.489	0.0035	-2.5 to 2.5	Pass
		40	NV	10.590	0.0057	-2.5 to 2.5	Pass
		50	NV	19.178	0.0104	-2.5 to 2.5	Pass
	1880	20	LV	7.813	0.0042	-2.5 to 2.5	Pass
			NV	5.779	0.0031	-2.5 to 2.5	Pass
			HV	1.291	0.0007	-2.5 to 2.5	Pass
		-30	NV	15.626	0.0083	-2.5 to 2.5	Pass
		-20	NV	8.136	0.0043	-2.5 to 2.5	Pass
		-10	NV	21.309	0.0113	-2.5 to 2.5	Pass
		0	NV	25.796	0.0137	-2.5 to 2.5	Pass
		10	NV	8.685	0.0046	-2.5 to 2.5	Pass
		30	NV	17.015	0.0091	-2.5 to 2.5	Pass
		40	NV	19.856	0.0106	-2.5 to 2.5	Pass
		50	NV	24.053	0.0128	-2.5 to 2.5	Pass
	1909.8	20	LV	16.466	0.0086	-2.5 to 2.5	Pass
			NV	12.624	0.0066	-2.5 to 2.5	Pass
			HV	8.297	0.0043	-2.5 to 2.5	Pass
		-30	NV	-7.781	-0.0041	-2.5 to 2.5	Pass
		-20	NV	0.452	0.0002	-2.5 to 2.5	Pass
		-10	NV	7.167	0.0038	-2.5 to 2.5	Pass
		0	NV	-0.904	-0.0005	-2.5 to 2.5	Pass
		10	NV	10.848	0.0057	-2.5 to 2.5	Pass
		30	NV	17.854	0.0093	-2.5 to 2.5	Pass
		40	NV	1.840	0.0010	-2.5 to 2.5	Pass
		50	NV	6.328	0.0033	-2.5 to 2.5	Pass
EGPRS	1850.2	20	LV	5.392	0.0029	-2.5 to 2.5	Pass
			NV	-0.097	-0.0001	-2.5 to 2.5	Pass
			HV	8.943	0.0048	-2.5 to 2.5	Pass
		-30	NV	3.648	0.0020	-2.5 to 2.5	Pass
		-20	NV	1.743	0.0009	-2.5 to 2.5	Pass
		-10	NV	3.648	0.0020	-2.5 to 2.5	Pass
		0	NV	8.879	0.0048	-2.5 to 2.5	Pass
		10	NV	14.593	0.0079	-2.5 to 2.5	Pass
		30	NV	14.561	0.0079	-2.5 to 2.5	Pass
		40	NV	4.649	0.0025	-2.5 to 2.5	Pass
		50	NV	12.688	0.0069	-2.5 to 2.5	Pass
	1880	20	LV	3.261	0.0017	-2.5 to 2.5	Pass
			NV	-5.876	-0.0031	-2.5 to 2.5	Pass

			HV	5.101	0.0027	-2.5 to 2.5	Pass
		-30	NV	2.873	0.0015	-2.5 to 2.5	Pass
		-20	NV	3.035	0.0016	-2.5 to 2.5	Pass
		-10	NV	-1.162	-0.0006	-2.5 to 2.5	Pass
		0	NV	12.656	0.0067	-2.5 to 2.5	Pass
		10	NV	3.099	0.0016	-2.5 to 2.5	Pass
		30	NV	17.015	0.0091	-2.5 to 2.5	Pass
		40	NV	11.494	0.0061	-2.5 to 2.5	Pass
		50	NV	-0.258	-0.0001	-2.5 to 2.5	Pass
	1909.8	20	LV	16.208	0.0085	-2.5 to 2.5	Pass
			NV	12.301	0.0064	-2.5 to 2.5	Pass
			HV	20.082	0.0105	-2.5 to 2.5	Pass
		-30	NV	12.236	0.0064	-2.5 to 2.5	Pass
		-20	NV	11.397	0.0060	-2.5 to 2.5	Pass
		-10	NV	13.625	0.0071	-2.5 to 2.5	Pass
		0	NV	16.434	0.0086	-2.5 to 2.5	Pass
		10	NV	19.178	0.0100	-2.5 to 2.5	Pass
		30	NV	14.270	0.0075	-2.5 to 2.5	Pass
		40	NV	19.598	0.0103	-2.5 to 2.5	Pass
		50	NV	12.075	0.0063	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 PCS1900_OBW

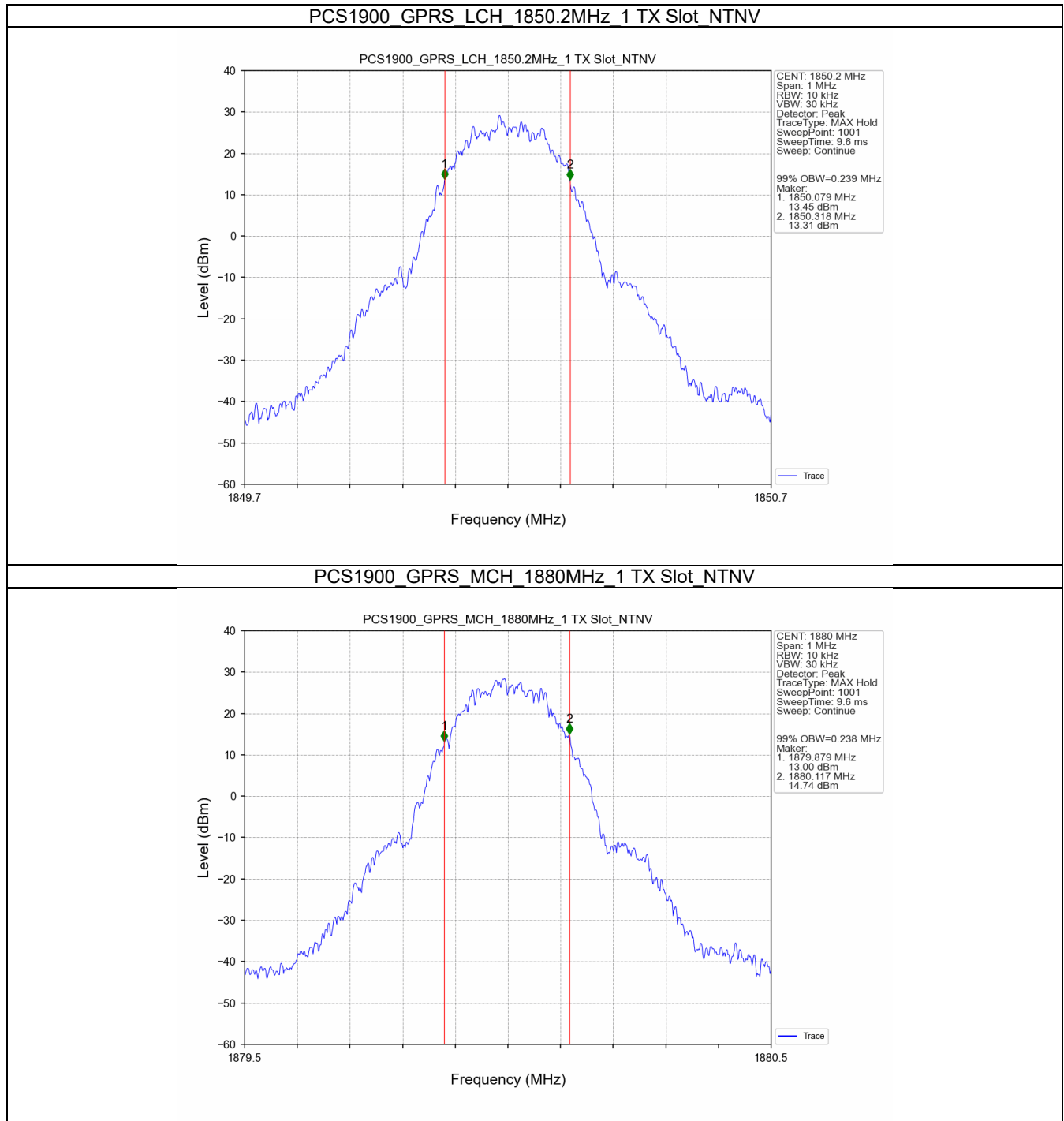
Band: PCS1900						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	0.239	/	Pass
			1880	0.238	/	Pass
			1909.8	0.248	/	Pass
	EGPRS	1 TX Slot	1850.2	0.255	/	Pass
			1880	0.245	/	Pass
			1909.8	0.243	/	Pass

3.1.2 PCS1900_XDB

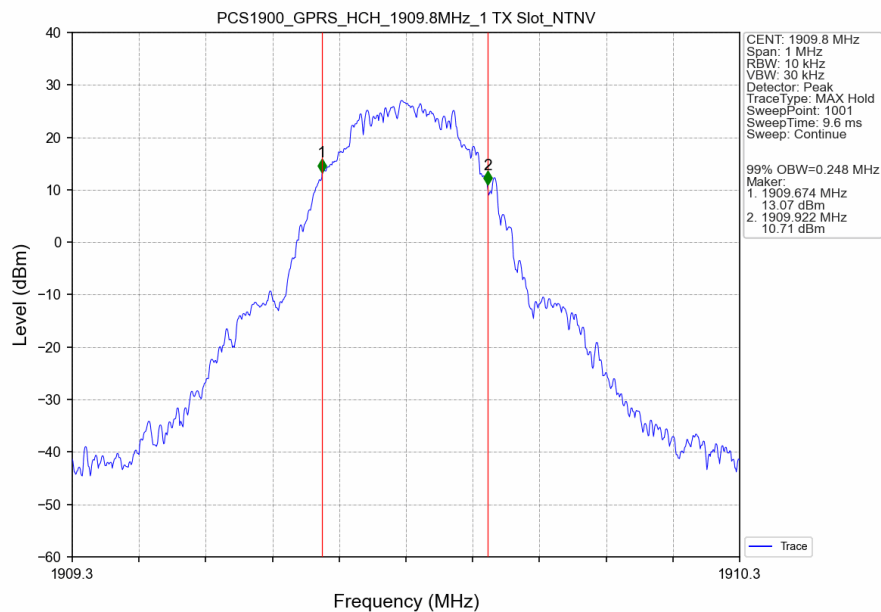
Band: PCS1900						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	0.310	/	Pass
			1880	0.313	/	Pass
			1909.8	0.320	/	Pass
	EGPRS	1 TX Slot	1850.2	0.313	/	Pass
			1880	0.311	/	Pass
			1909.8	0.307	/	Pass

3.2 Test Graph

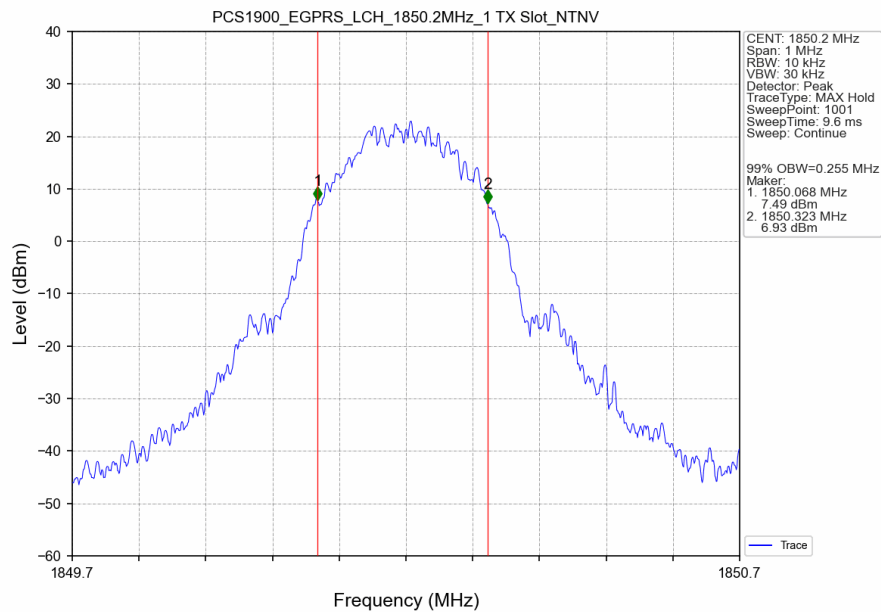
3.2.1 PCS1900_OBW



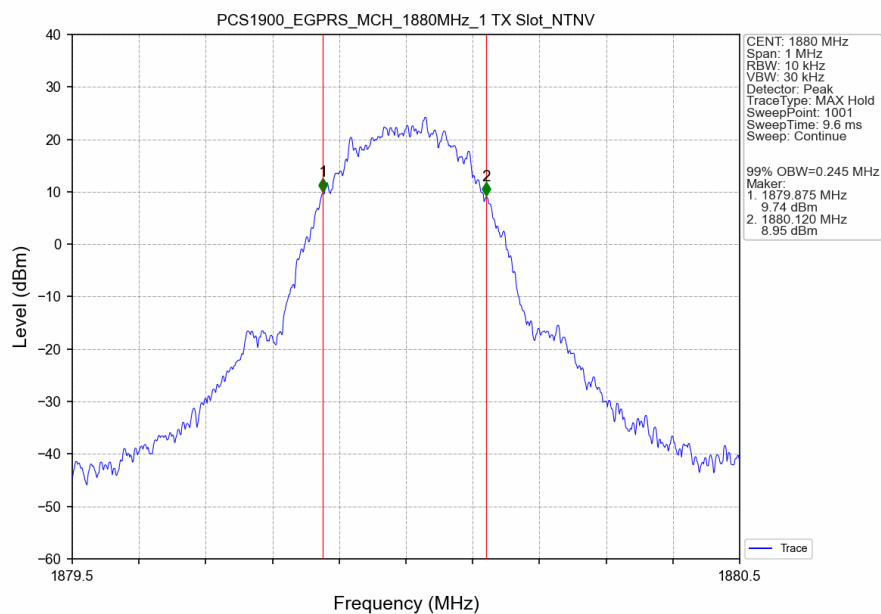
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



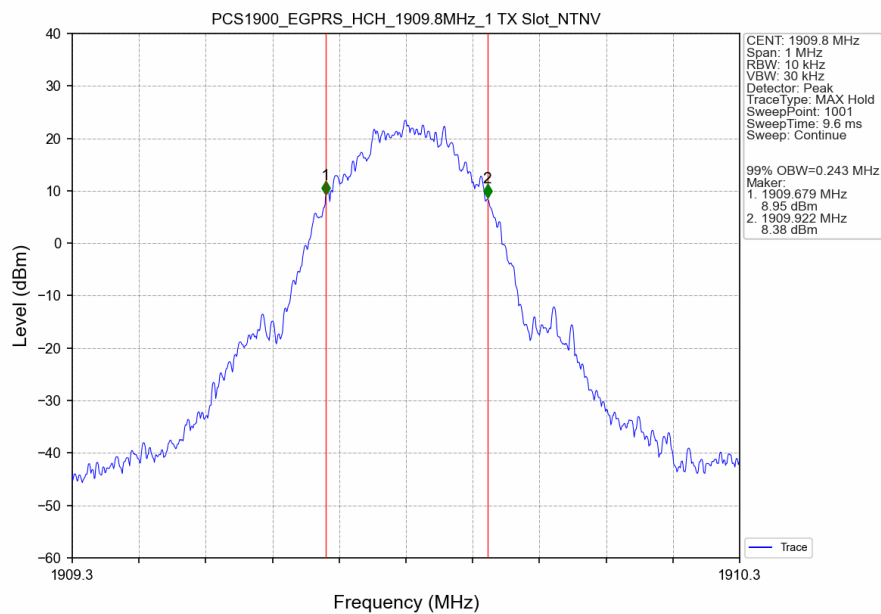
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



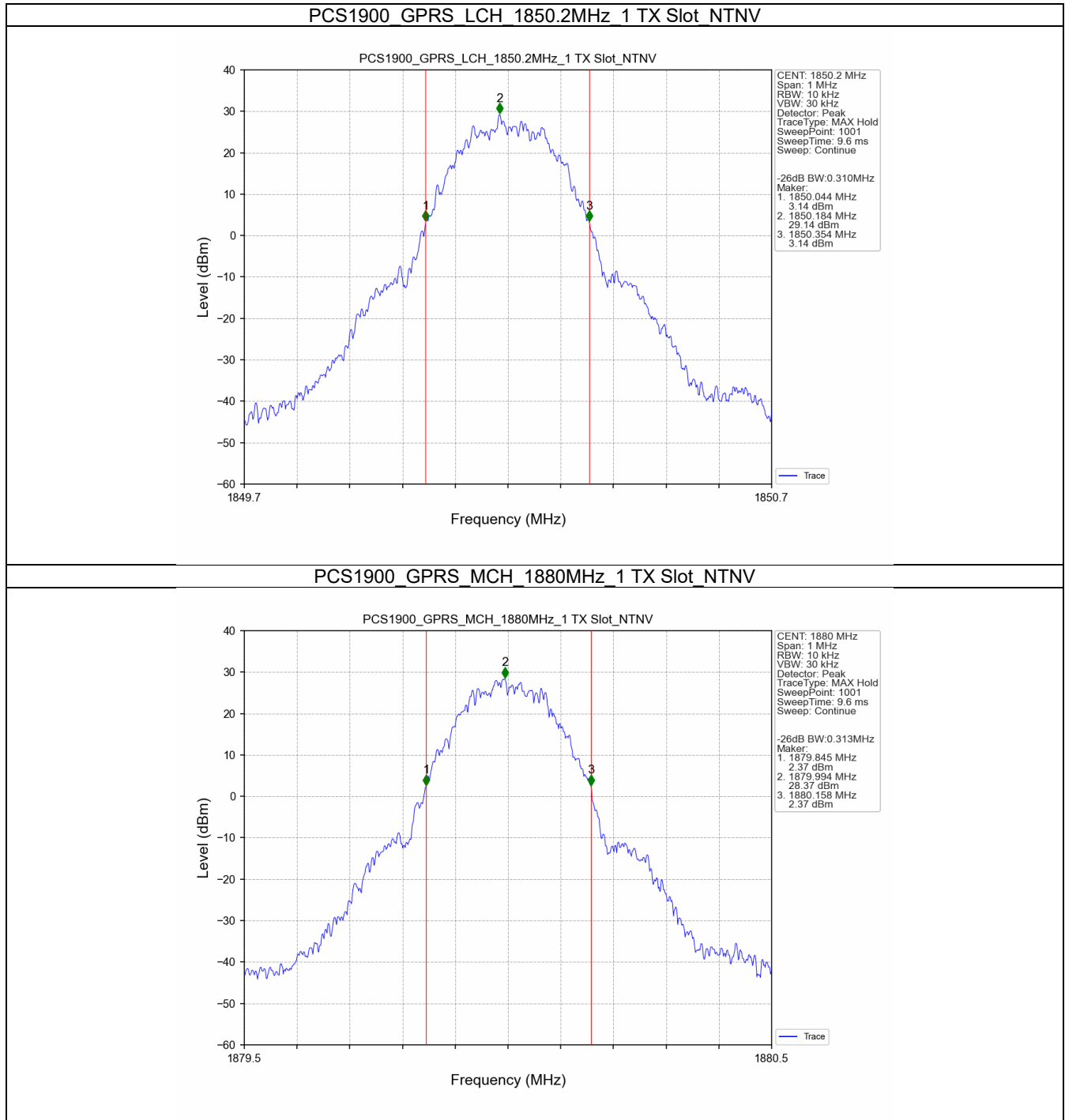
PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



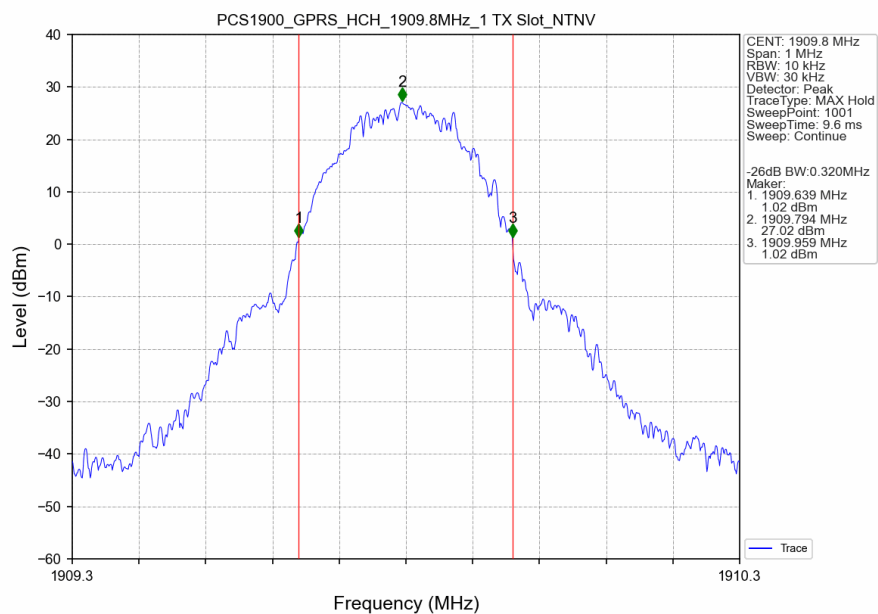
PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



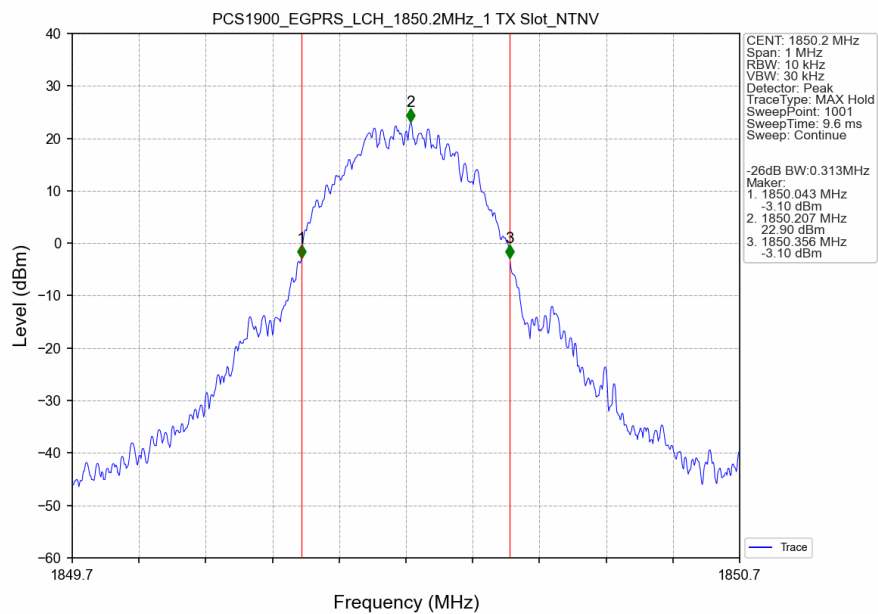
3.2.2 PCS1900_XDB



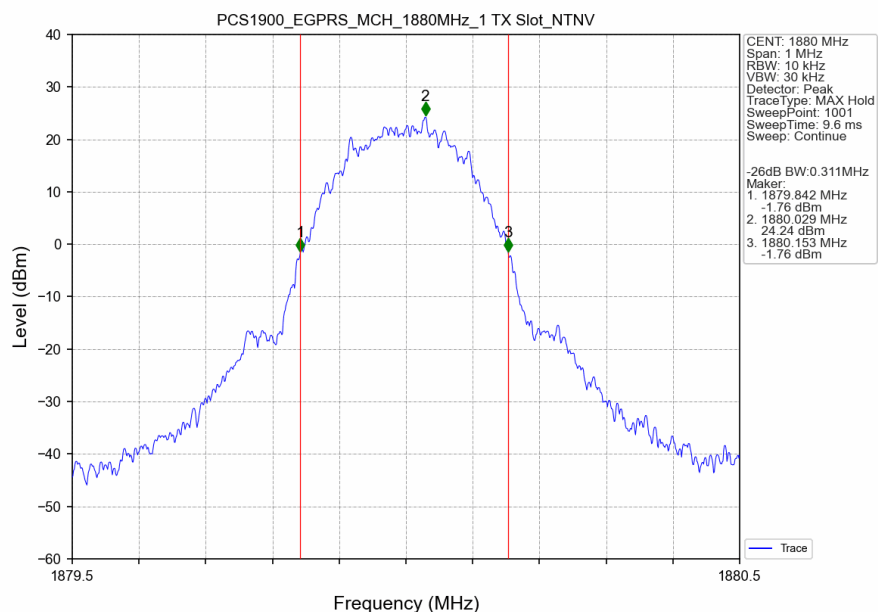
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



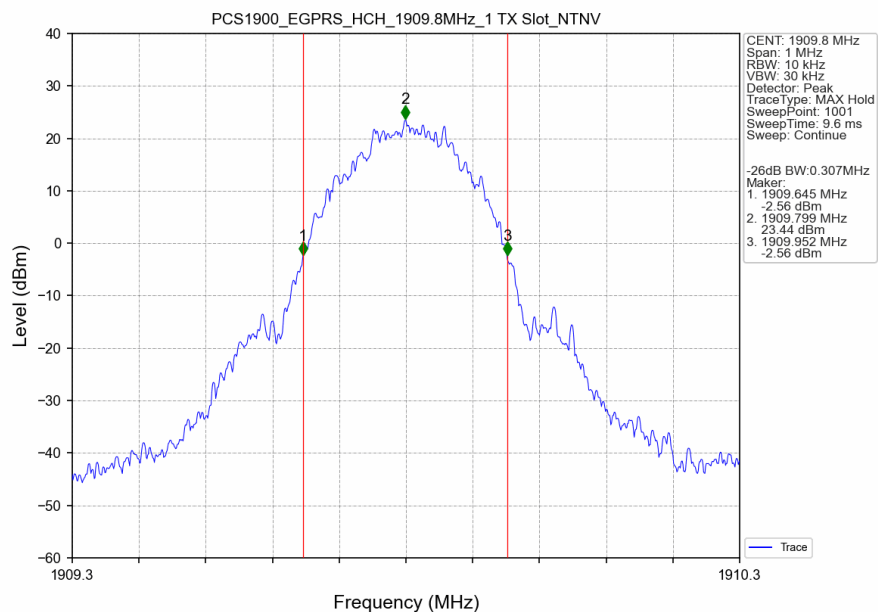
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV





4. Peak-Average Ratio

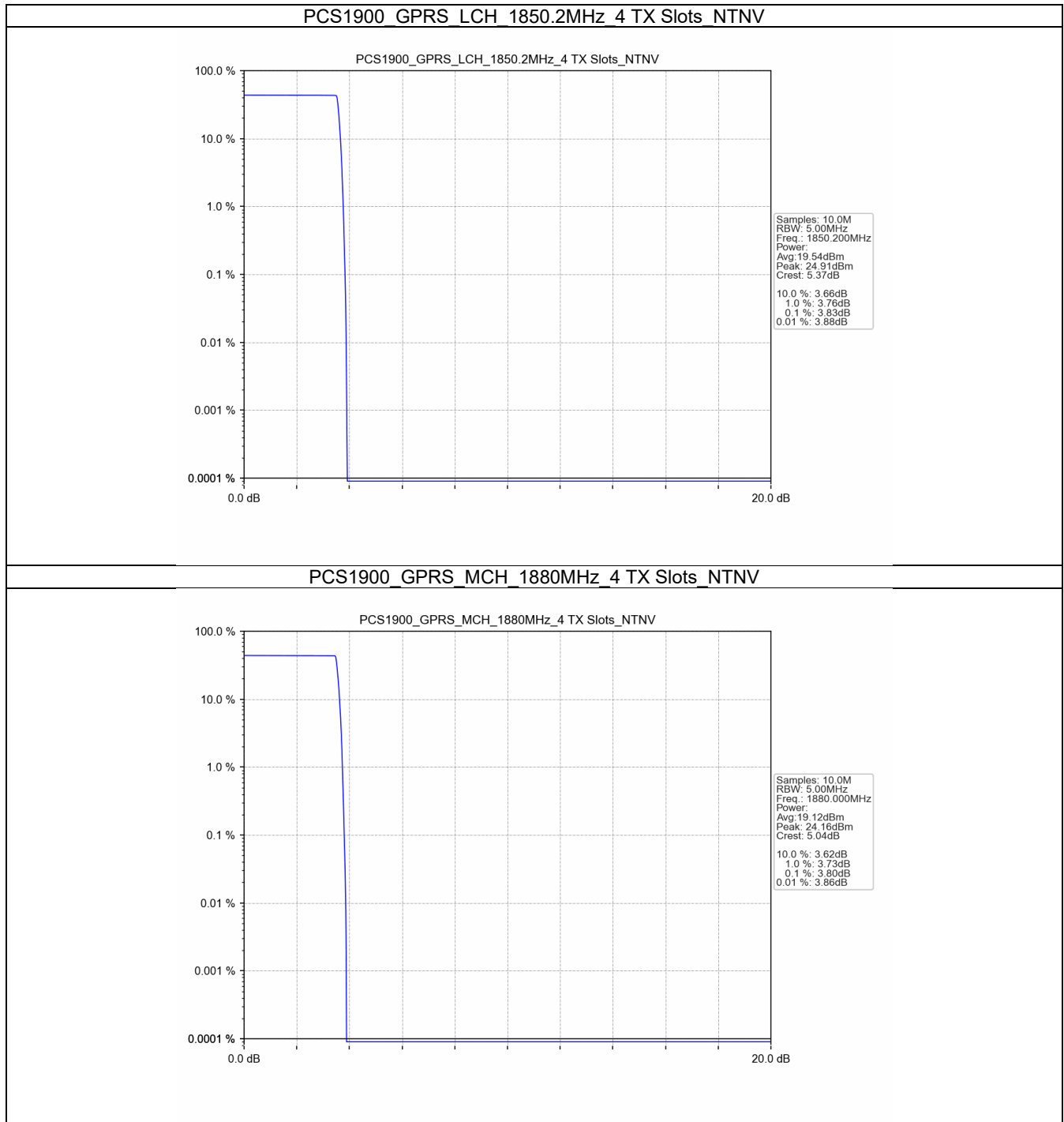
4.1 Test Result

4.1.1 PCS1900

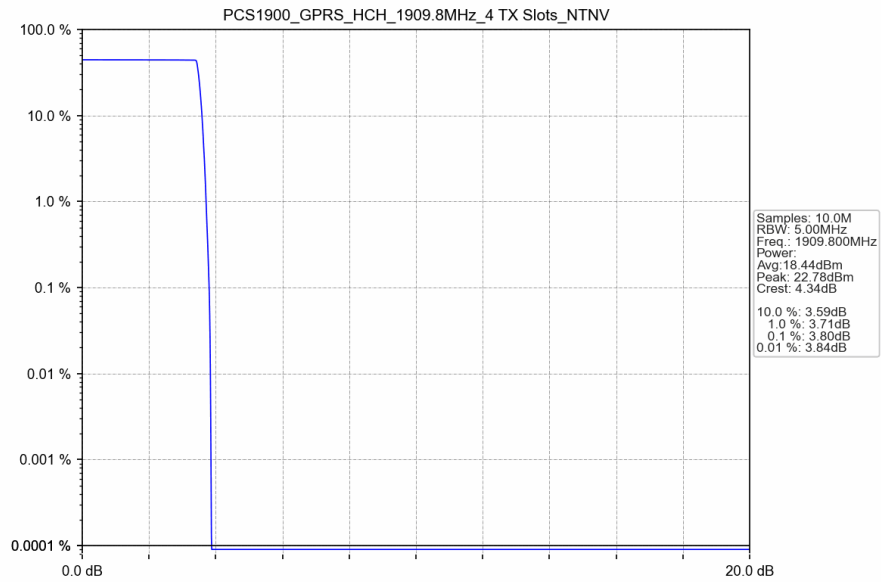
Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	1850.2	3.83	<=13	Pass
			1880	3.80	<=13	Pass
			1909.8	3.80	<=13	Pass
	EGPRS	4 TX Slots	1850.2	7.05	<=13	Pass
			1880	7.59	<=13	Pass
			1909.8	6.96	<=13	Pass

4.2 Test Graph

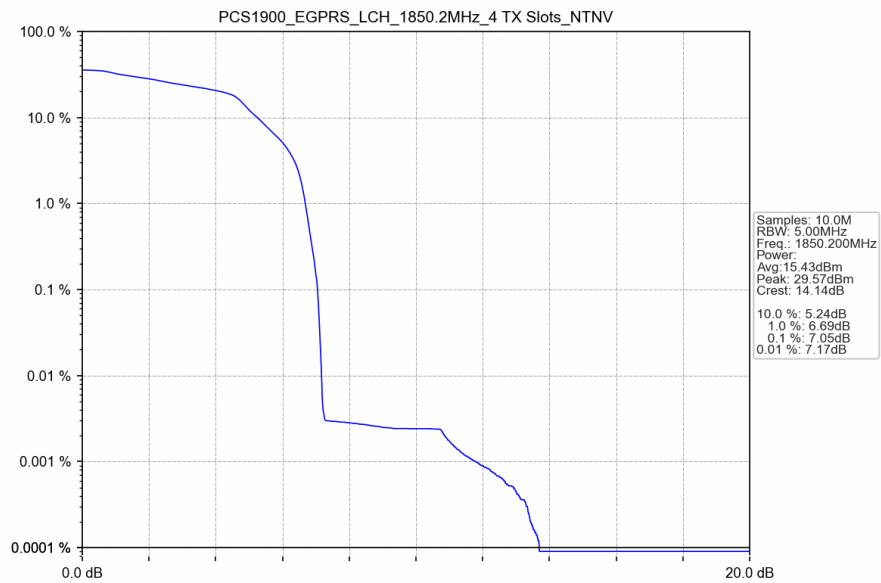
4.2.1 PCS1900



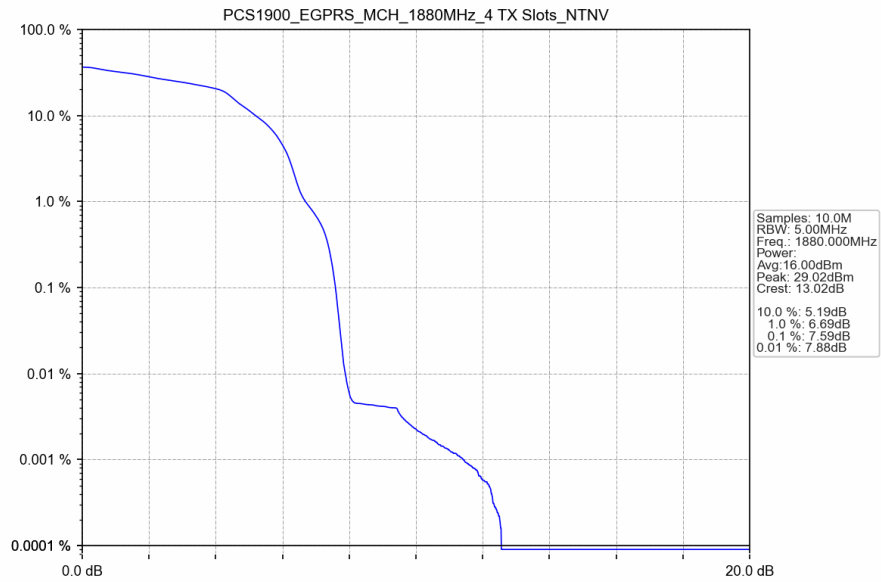
PCS1900_GPRS_HCH_1909.8MHz_4 TX Slots_NTNV



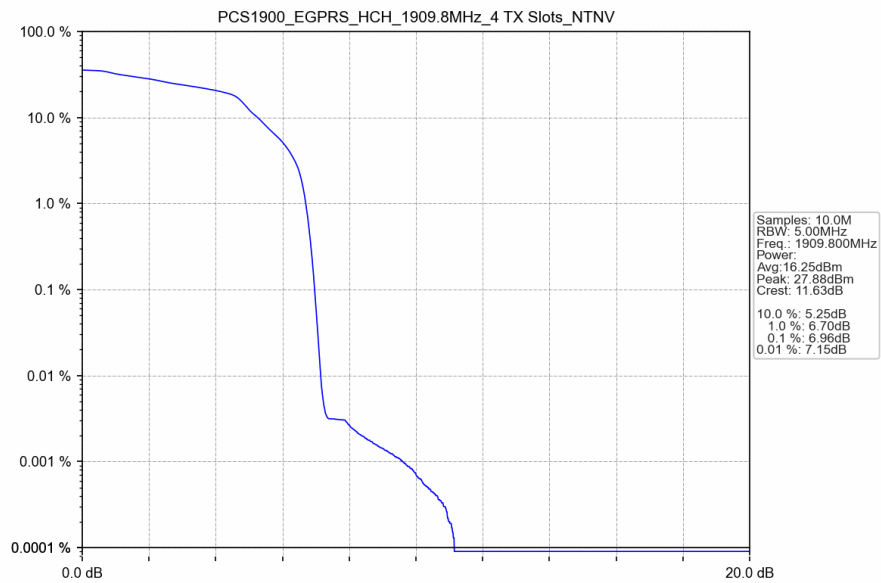
PCS1900_EGPRS_LCH_1850.2MHz_4 TX Slots_NTNV



PCS1900_EGPRS_MCH_1880MHz_4 TX Slots_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_4 TX Slots_NTNV





5. Spurious Emission

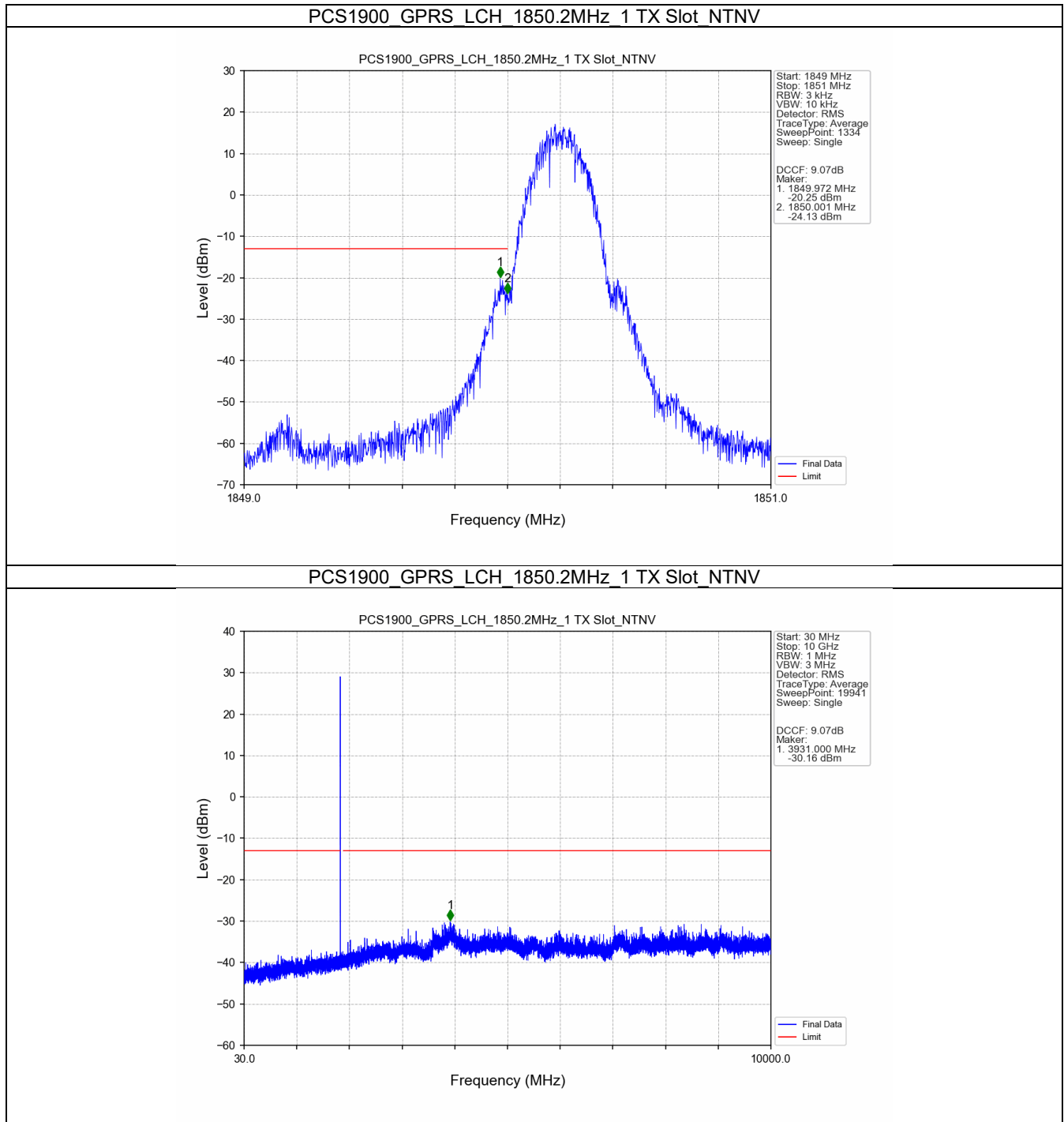
5.1 Test Result

5.1.1 PCS1900

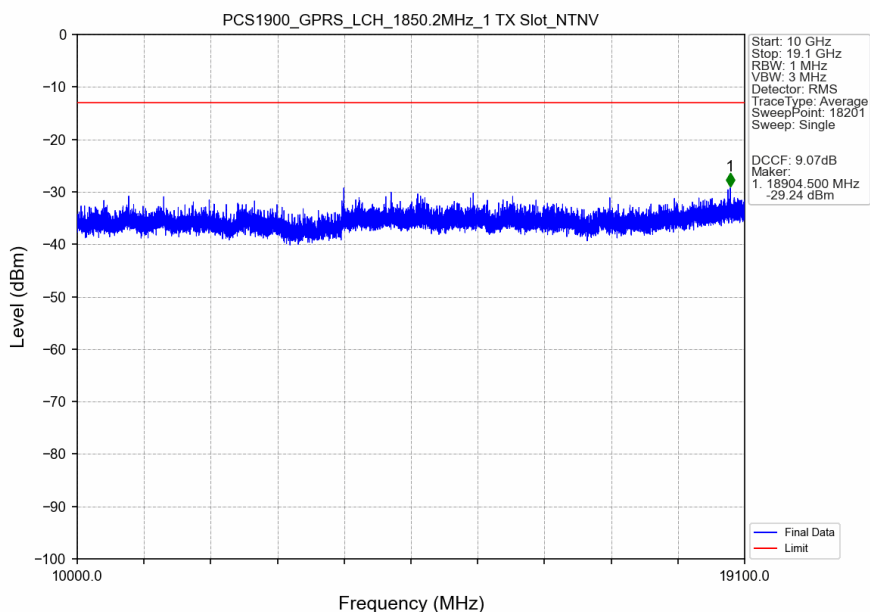
Band: PCS1900						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	Refer To Test Graph		Pass
			1880	Refer To Test Graph		Pass
			1909.8	Refer To Test Graph		Pass
	EGPRS	1 TX Slot	1850.2	Refer To Test Graph		Pass
			1880	Refer To Test Graph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

5.2 Test Graph

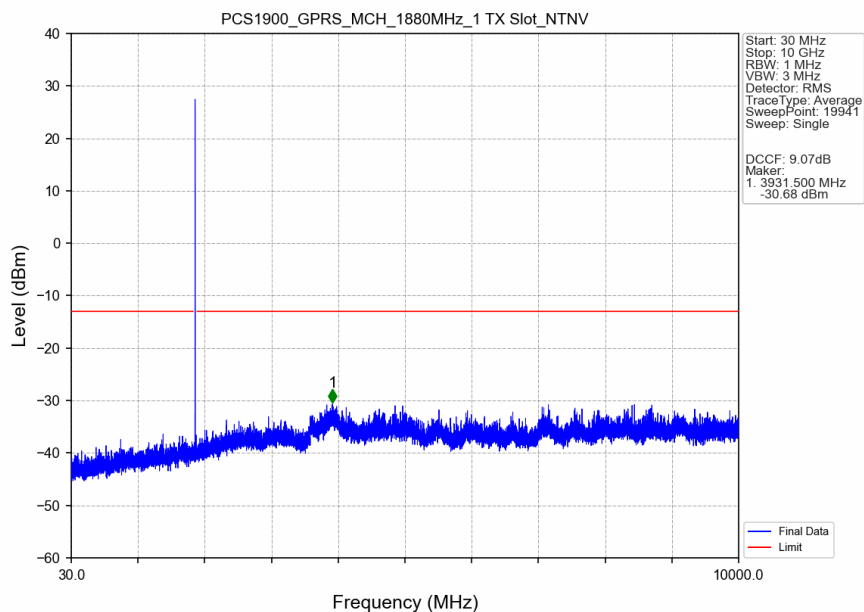
5.2.1 PCS1900



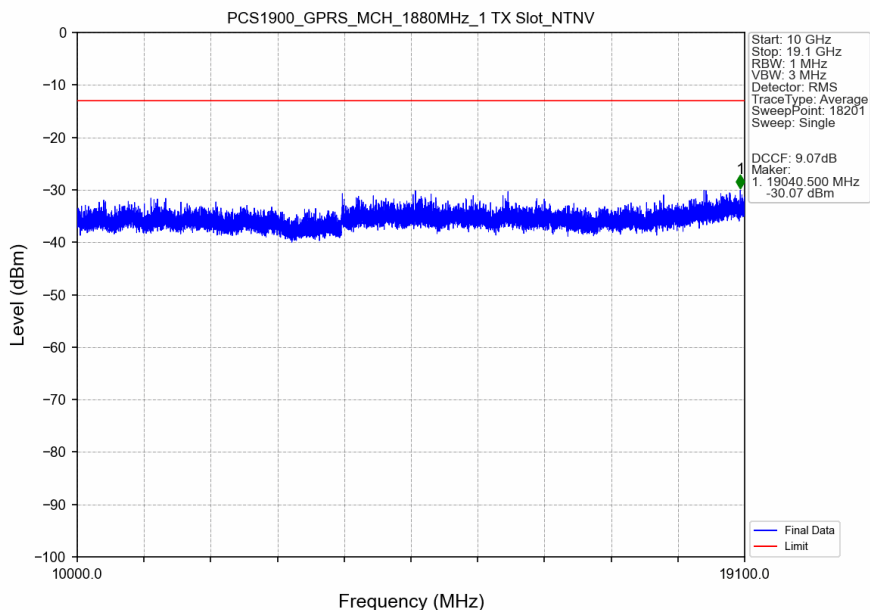
PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



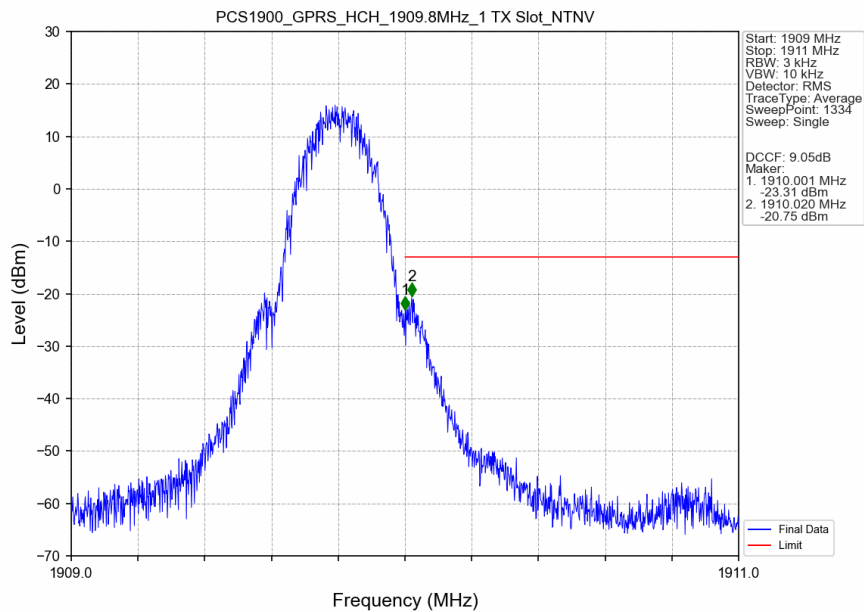
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



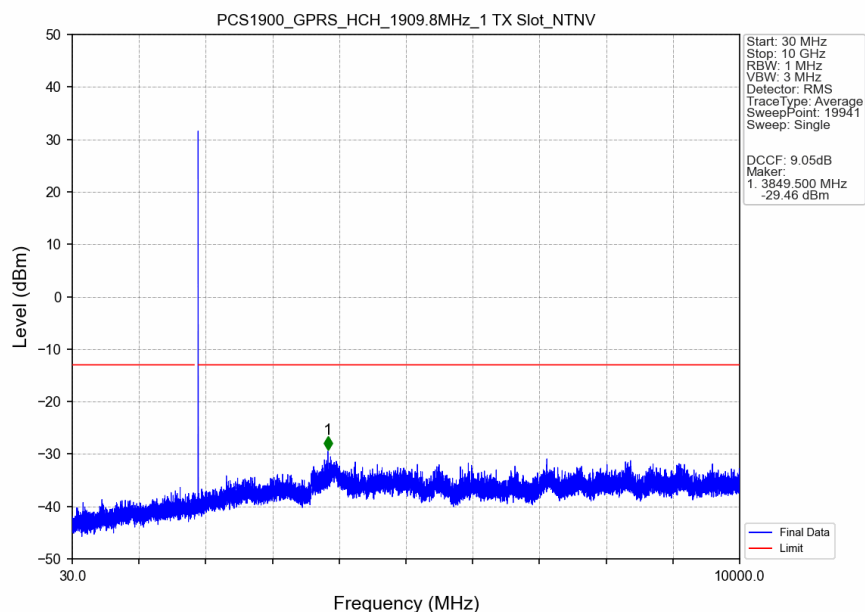
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



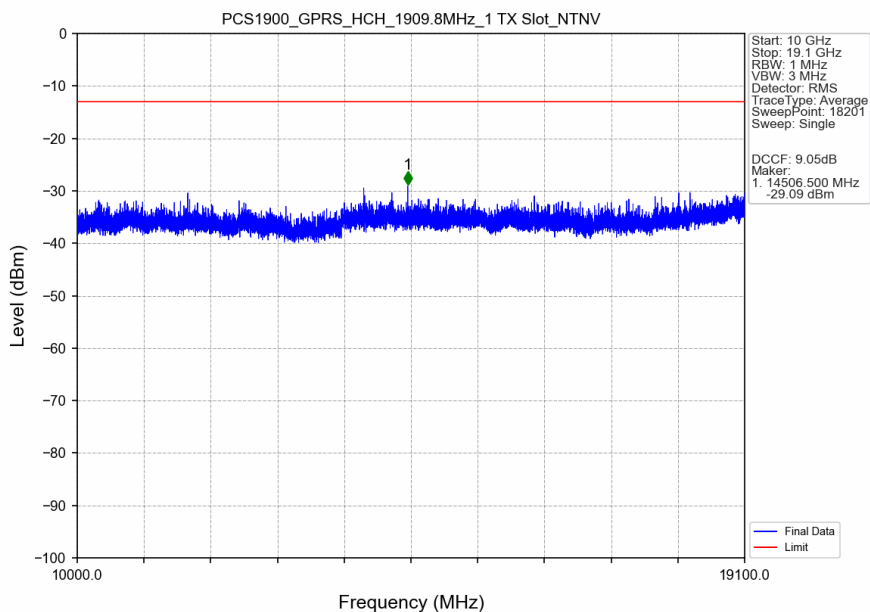
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



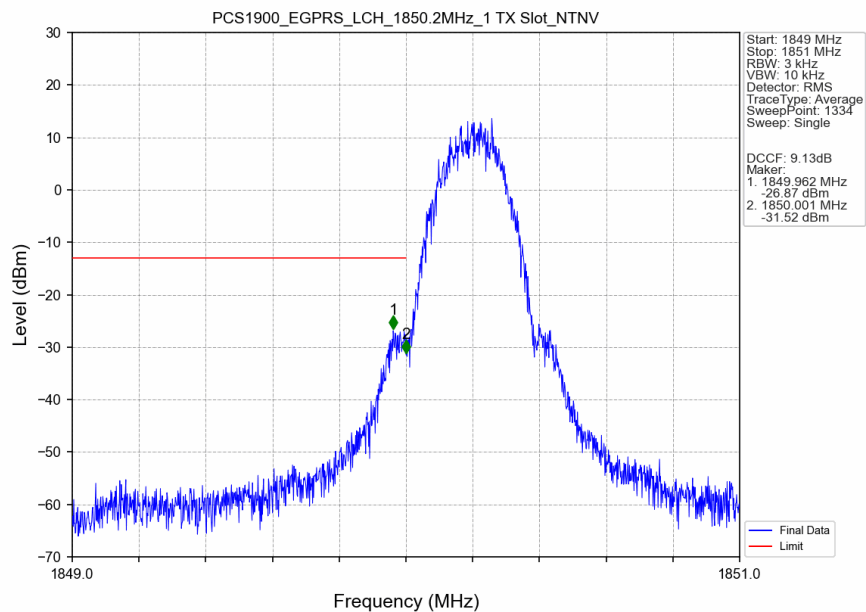
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



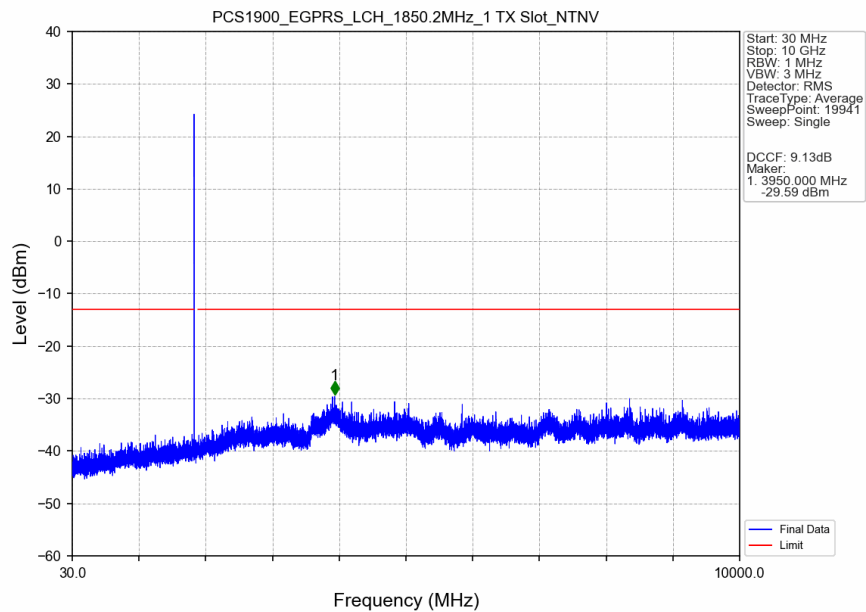
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



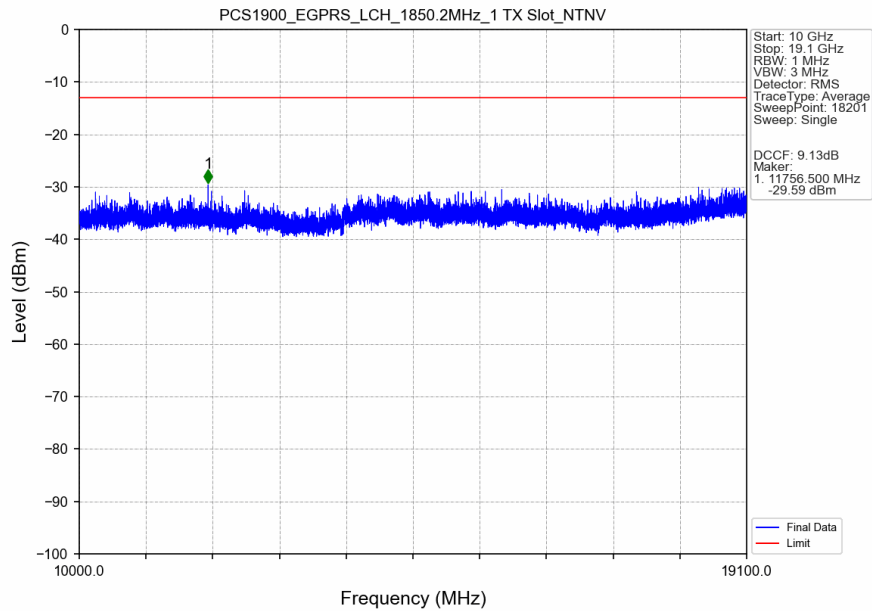
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



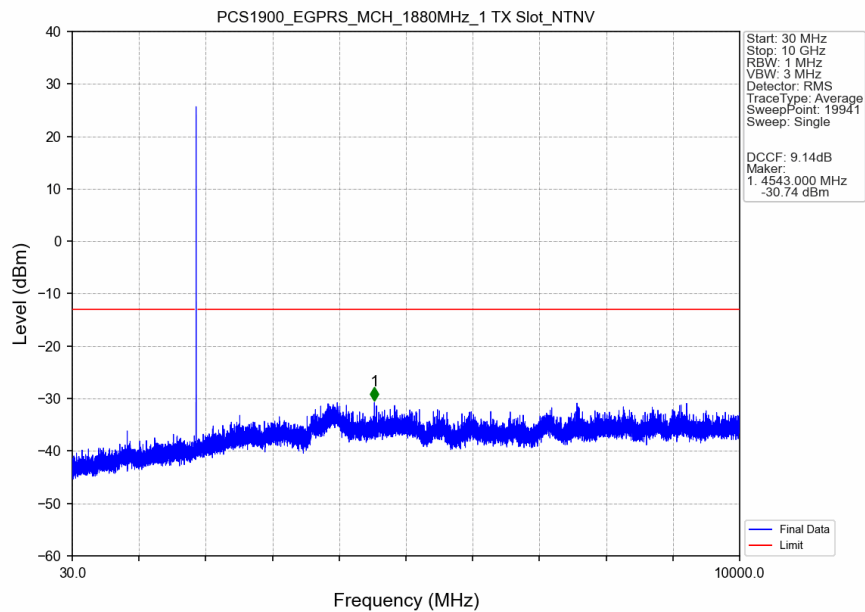
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



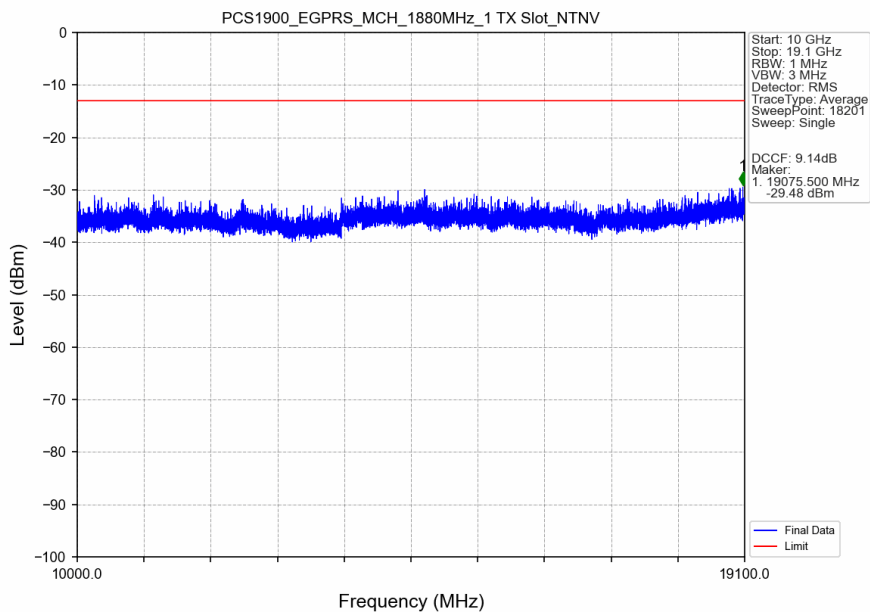
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



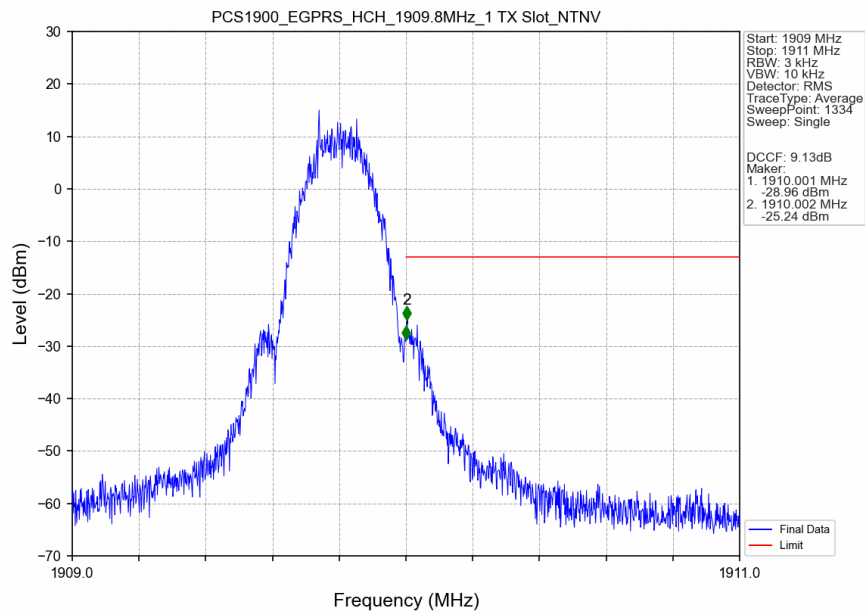
PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



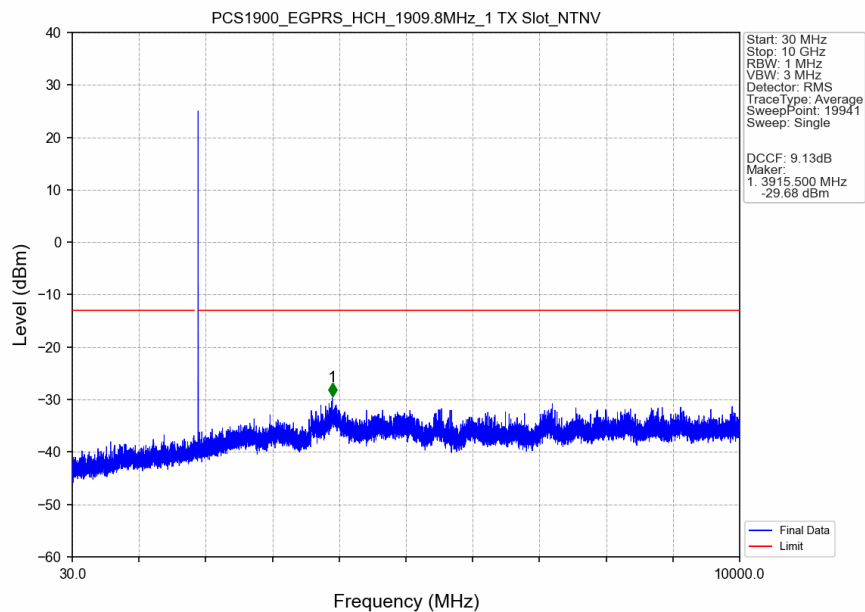
PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



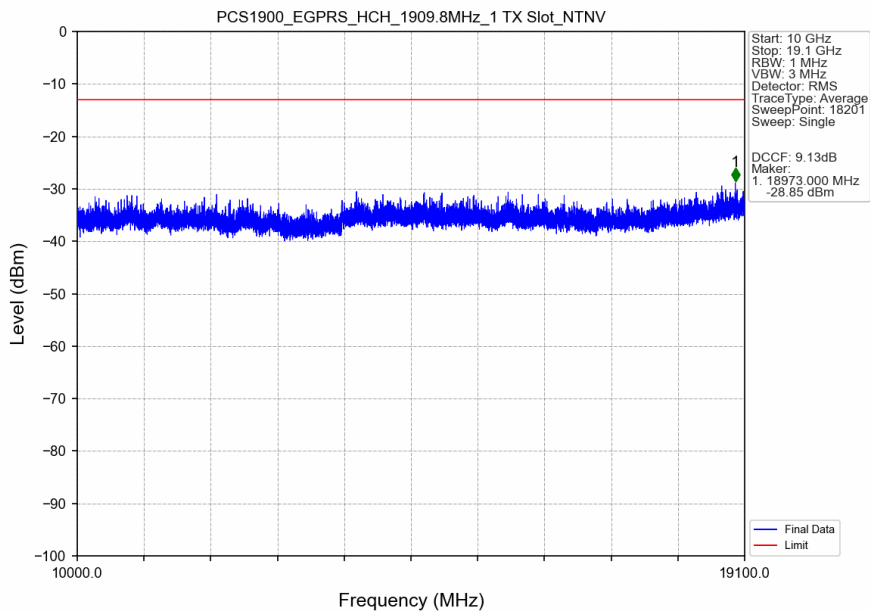
PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



- End of the Appendix -