

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	31.63	-2.57	29.06	<=33.01	Pass
		2 TX Slots	1850.2	30.57	-2.57	28.00	<=33.01	Pass
		3 TX Slots	1850.2	28.54	-2.57	25.97	<=33.01	Pass
		4 TX Slots	1850.2	27.32	-2.57	24.75	<=33.01	Pass
		1 TX Slot	1880	31.00	-2.57	28.43	<=33.01	Pass
		2 TX Slots	1880	29.97	-2.57	27.40	<=33.01	Pass
		3 TX Slots	1880	27.88	-2.57	25.31	<=33.01	Pass
		4 TX Slots	1880	26.66	-2.57	24.09	<=33.01	Pass
		1 TX Slot	1909.8	30.81	-2.57	28.24	<=33.01	Pass
		2 TX Slots	1909.8	29.76	-2.57	27.19	<=33.01	Pass
		3 TX Slots	1909.8	27.64	-2.57	25.07	<=33.01	Pass
		4 TX Slots	1909.8	26.45	-2.57	23.88	<=33.01	Pass
	EGPRS	1 TX Slot	1850.2	27.51	-2.57	24.94	<=33.01	Pass
		2 TX Slots	1850.2	26.26	-2.57	23.69	<=33.01	Pass
		3 TX Slots	1850.2	24.06	-2.57	21.49	<=33.01	Pass
		4 TX Slots	1850.2	22.73	-2.57	20.16	<=33.01	Pass
		1 TX Slot	1880	27.15	-2.57	24.58	<=33.01	Pass
		2 TX Slots	1880	25.94	-2.57	23.37	<=33.01	Pass
		3 TX Slots	1880	23.58	-2.57	21.01	<=33.01	Pass
		4 TX Slots	1880	22.08	-2.57	19.51	<=33.01	Pass
		1 TX Slot	1909.8	26.98	-2.57	24.41	<=33.01	Pass
		2 TX Slots	1909.8	25.86	-2.57	23.29	<=33.01	Pass
		3 TX Slots	1909.8	23.39	-2.57	20.82	<=33.01	Pass
		4 TX Slots	1909.8	23.08	-2.57	20.51	<=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	18.403	0.0099	-2.5 to 2.5	Pass
			NV	12.139	0.0066	-2.5 to 2.5	Pass
			HV	12.914	0.0070	-2.5 to 2.5	Pass
		-30	NV	9.815	0.0053	-2.5 to 2.5	Pass
		-20	NV	9.750	0.0053	-2.5 to 2.5	Pass
		-10	NV	14.238	0.0077	-2.5 to 2.5	Pass
		0	NV	11.946	0.0065	-2.5 to 2.5	Pass
		10	NV	15.949	0.0086	-2.5 to 2.5	Pass
		30	NV	12.236	0.0066	-2.5 to 2.5	Pass
		40	NV	-4.488	-0.0024	-2.5 to 2.5	Pass
		50	NV	-6.263	-0.0034	-2.5 to 2.5	Pass
	1880	20	LV	19.824	0.0105	-2.5 to 2.5	Pass
			NV	16.143	0.0086	-2.5 to 2.5	Pass
			HV	14.916	0.0079	-2.5 to 2.5	Pass
		-30	NV	18.338	0.0098	-2.5 to 2.5	Pass
		-20	NV	16.595	0.0088	-2.5 to 2.5	Pass
		-10	NV	16.466	0.0088	-2.5 to 2.5	Pass
		0	NV	21.535	0.0115	-2.5 to 2.5	Pass
		10	NV	12.204	0.0065	-2.5 to 2.5	Pass
		30	NV	12.495	0.0066	-2.5 to 2.5	Pass
		40	NV	10.073	0.0054	-2.5 to 2.5	Pass
		50	NV	11.268	0.0060	-2.5 to 2.5	Pass
	1909.8	20	LV	13.883	0.0073	-2.5 to 2.5	Pass
			NV	17.112	0.0090	-2.5 to 2.5	Pass
			HV	14.432	0.0076	-2.5 to 2.5	Pass
		-30	NV	12.947	0.0068	-2.5 to 2.5	Pass
		-20	NV	9.169	0.0048	-2.5 to 2.5	Pass
		-10	NV	14.141	0.0074	-2.5 to 2.5	Pass
		0	NV	17.628	0.0092	-2.5 to 2.5	Pass
		10	NV	18.726	0.0098	-2.5 to 2.5	Pass
		30	NV	7.975	0.0042	-2.5 to 2.5	Pass
		40	NV	9.847	0.0052	-2.5 to 2.5	Pass
		50	NV	7.490	0.0039	-2.5 to 2.5	Pass
EGPRS	1850.2	20	LV	15.755	0.0085	-2.5 to 2.5	Pass
			NV	13.657	0.0074	-2.5 to 2.5	Pass
			HV	10.590	0.0057	-2.5 to 2.5	Pass
		-30	NV	16.950	0.0092	-2.5 to 2.5	Pass
		-20	NV	17.757	0.0096	-2.5 to 2.5	Pass
		-10	NV	19.242	0.0104	-2.5 to 2.5	Pass
		0	NV	13.657	0.0074	-2.5 to 2.5	Pass
		10	NV	6.037	0.0033	-2.5 to 2.5	Pass
		30	NV	4.746	0.0026	-2.5 to 2.5	Pass
		40	NV	10.364	0.0056	-2.5 to 2.5	Pass
		50	NV	9.040	0.0049	-2.5 to 2.5	Pass
	1880	20	LV	20.308	0.0108	-2.5 to 2.5	Pass
			NV	14.884	0.0079	-2.5 to 2.5	Pass

			HV	18.629	0.0099	-2.5 to 2.5	Pass
		-30	NV	14.044	0.0075	-2.5 to 2.5	Pass
		-20	NV	15.885	0.0084	-2.5 to 2.5	Pass
		-10	NV	15.755	0.0084	-2.5 to 2.5	Pass
		0	NV	18.145	0.0097	-2.5 to 2.5	Pass
		10	NV	14.884	0.0079	-2.5 to 2.5	Pass
		30	NV	14.303	0.0076	-2.5 to 2.5	Pass
		40	NV	20.082	0.0107	-2.5 to 2.5	Pass
		50	NV	13.334	0.0071	-2.5 to 2.5	Pass
	1909.8	20	LV	16.950	0.0089	-2.5 to 2.5	Pass
			NV	15.852	0.0083	-2.5 to 2.5	Pass
			HV	12.139	0.0064	-2.5 to 2.5	Pass
		-30	NV	18.758	0.0098	-2.5 to 2.5	Pass
		-20	NV	14.464	0.0076	-2.5 to 2.5	Pass
		-10	NV	16.111	0.0084	-2.5 to 2.5	Pass
		0	NV	17.725	0.0093	-2.5 to 2.5	Pass
		10	NV	17.790	0.0093	-2.5 to 2.5	Pass
		30	NV	13.366	0.0070	-2.5 to 2.5	Pass
		40	NV	16.369	0.0086	-2.5 to 2.5	Pass
		50	NV	12.947	0.0068	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 PCS1900_OBW

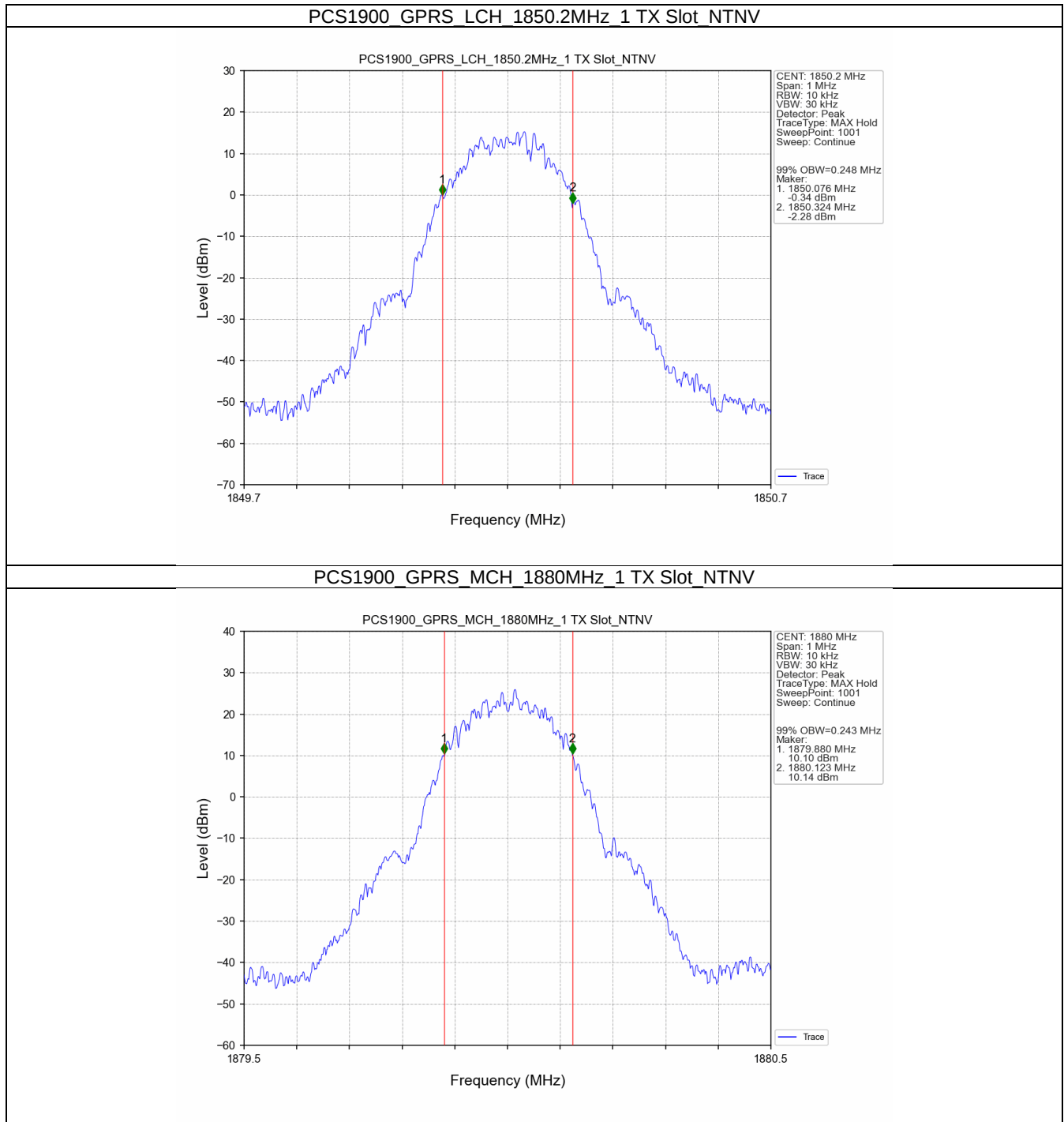
Band: PCS1900						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	0.248	/	Pass
			1880	0.243	/	Pass
			1909.8	0.243	/	Pass
	EGPRS	1 TX Slot	1850.2	0.248	/	Pass
			1880	0.250	/	Pass
			1909.8	0.245	/	Pass

3.1.2 PCS1900_XDB

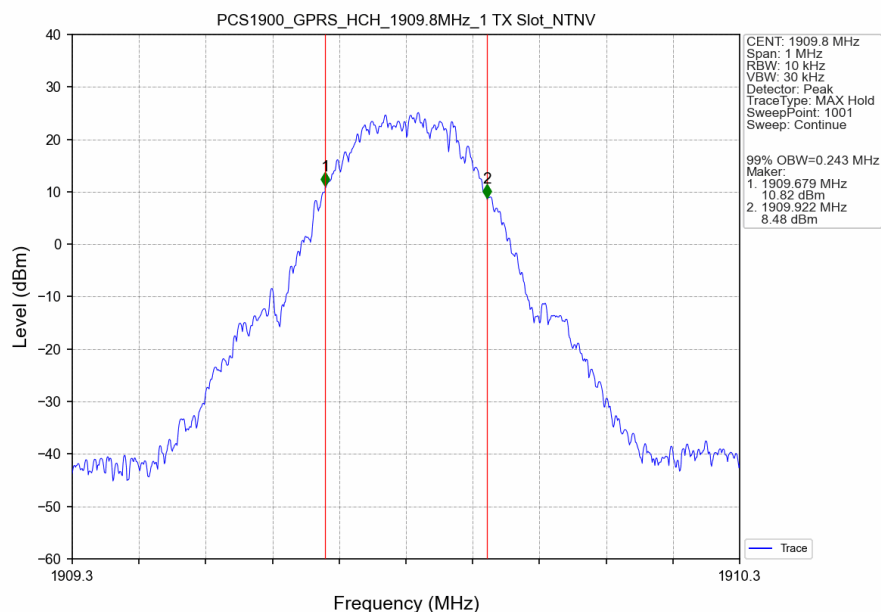
Band: PCS1900						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	0.315	/	Pass
			1880	0.312	/	Pass
			1909.8	0.315	/	Pass
	EGPRS	1 TX Slot	1850.2	0.317	/	Pass
			1880	0.303	/	Pass
			1909.8	0.315	/	Pass

3.2 Test Graph

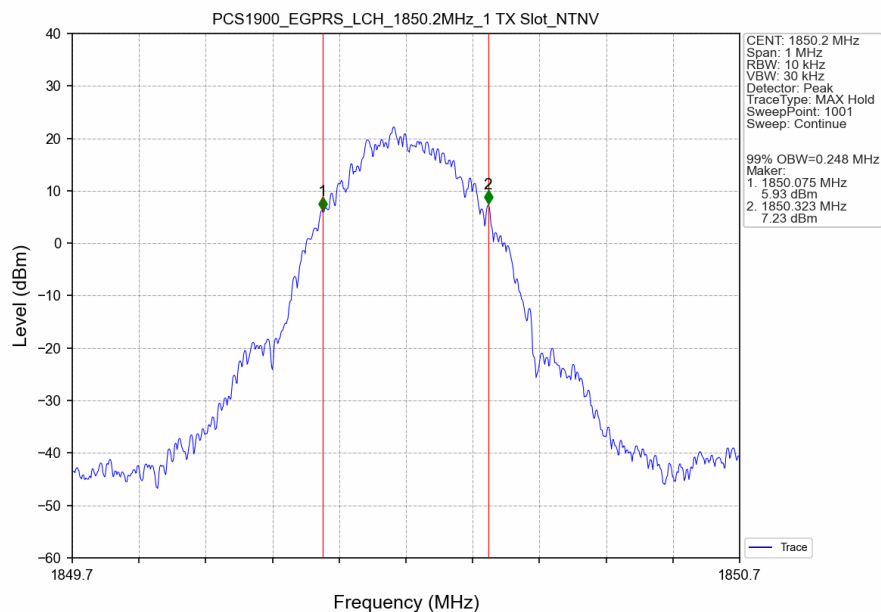
3.2.1 PCS1900_OBW



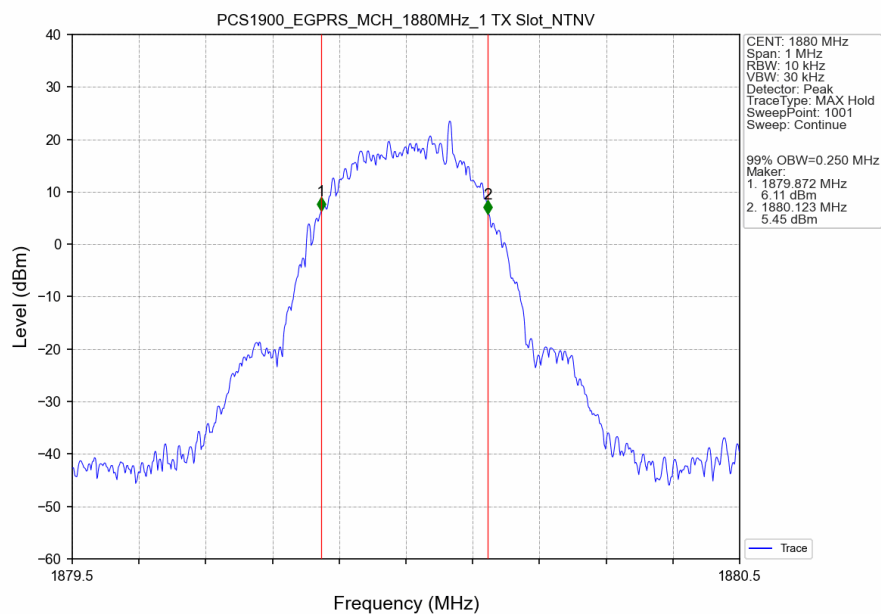
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



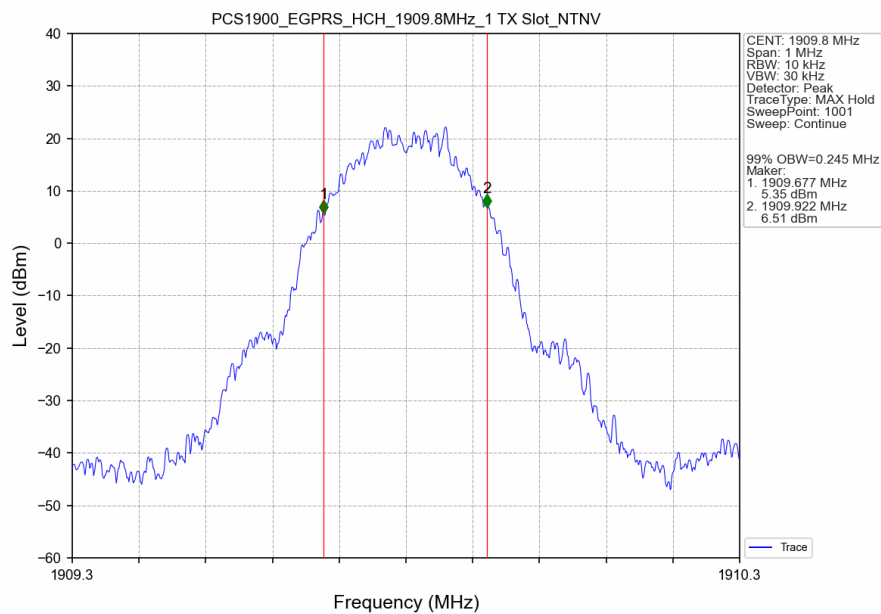
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



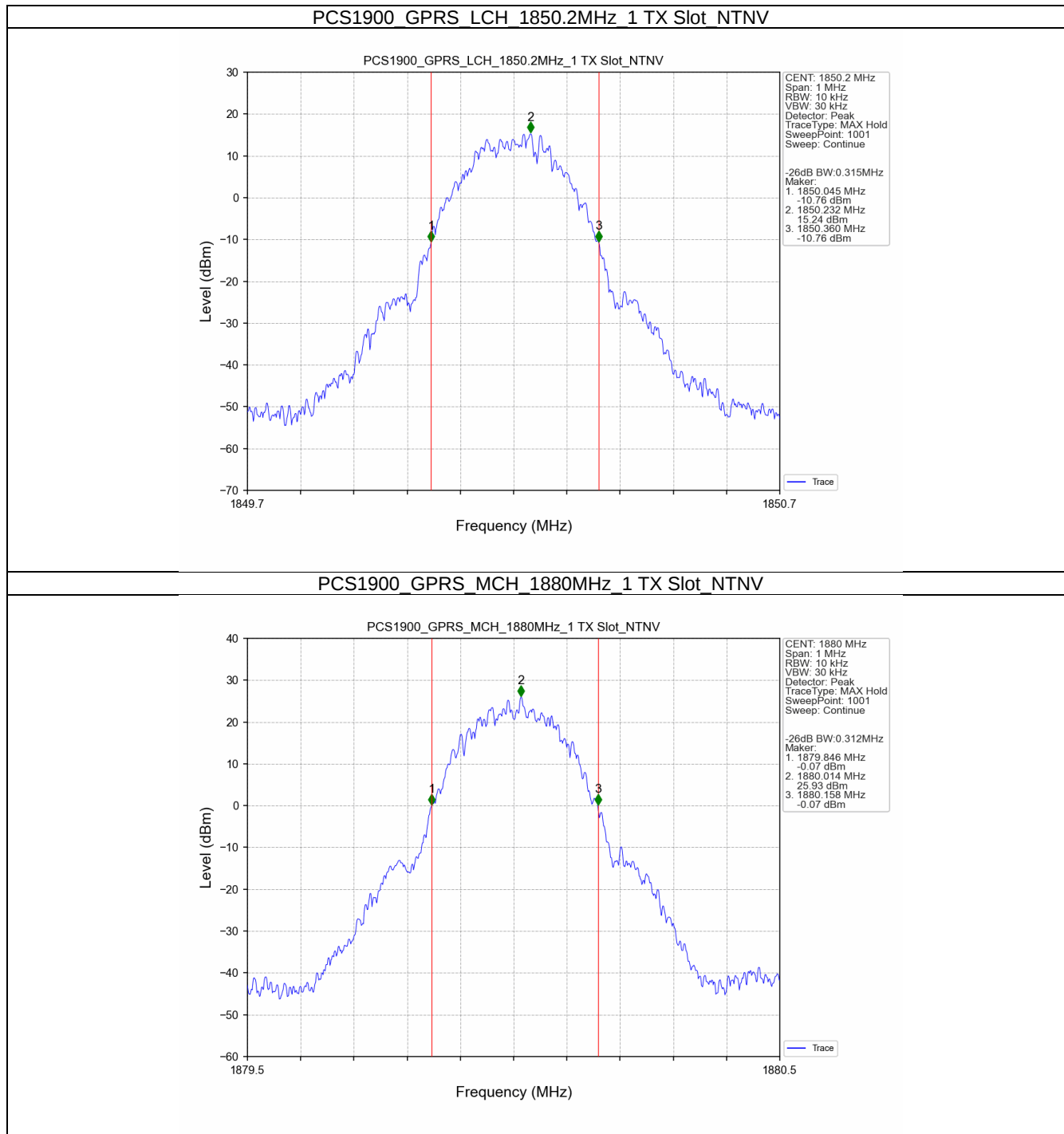
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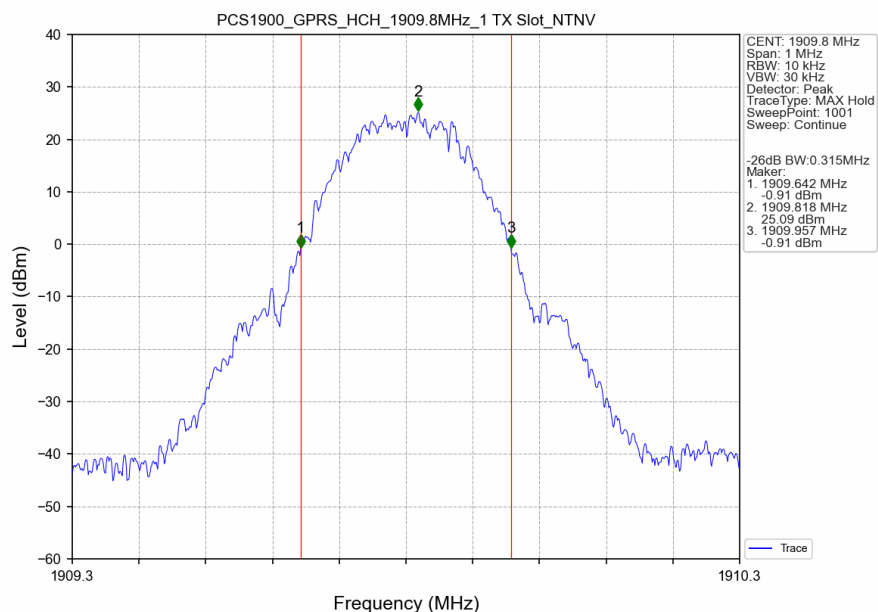
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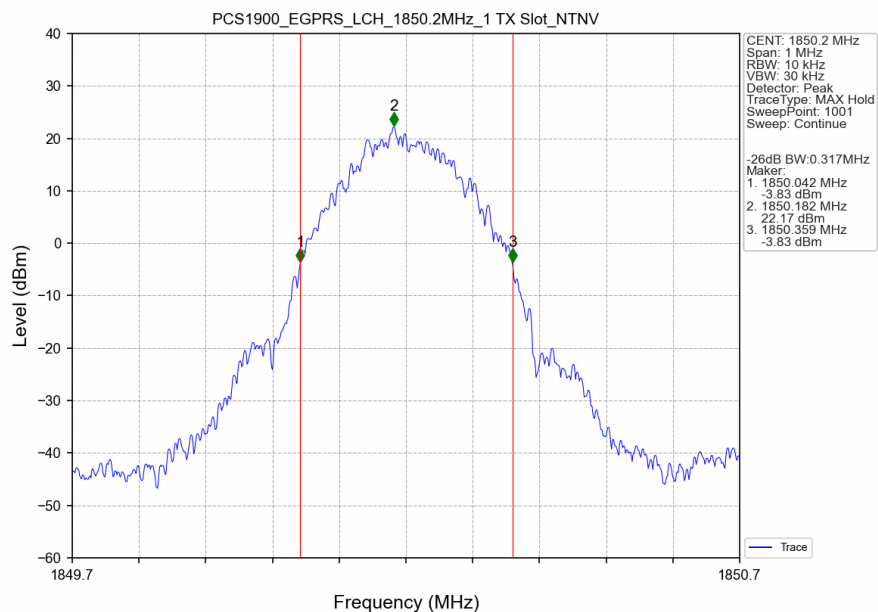
3.2.2 PCS1900_XDB



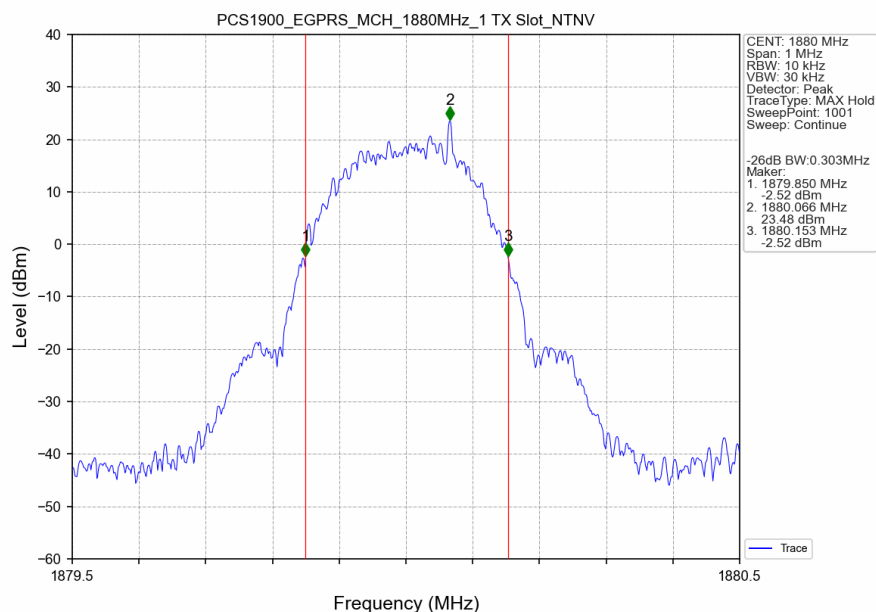
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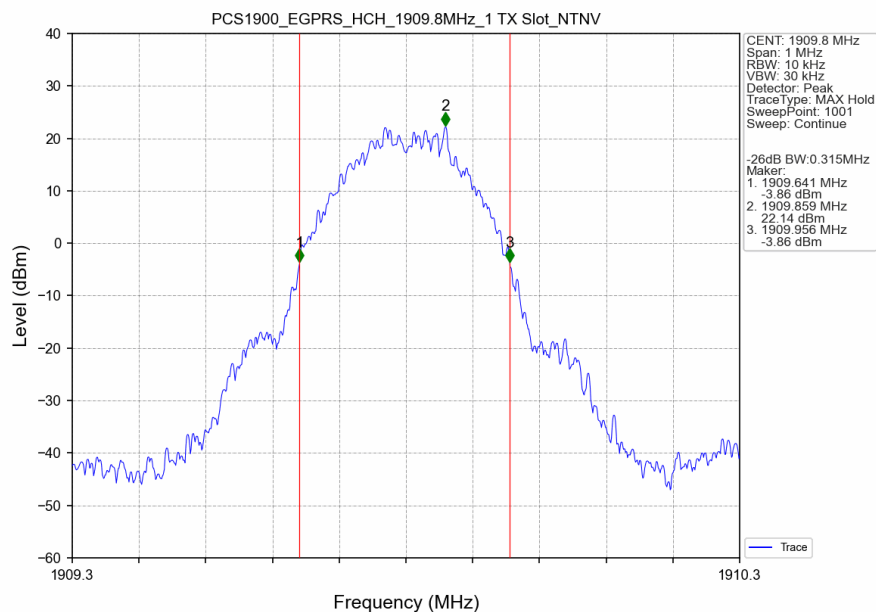
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV





4. Peak-Average Ratio

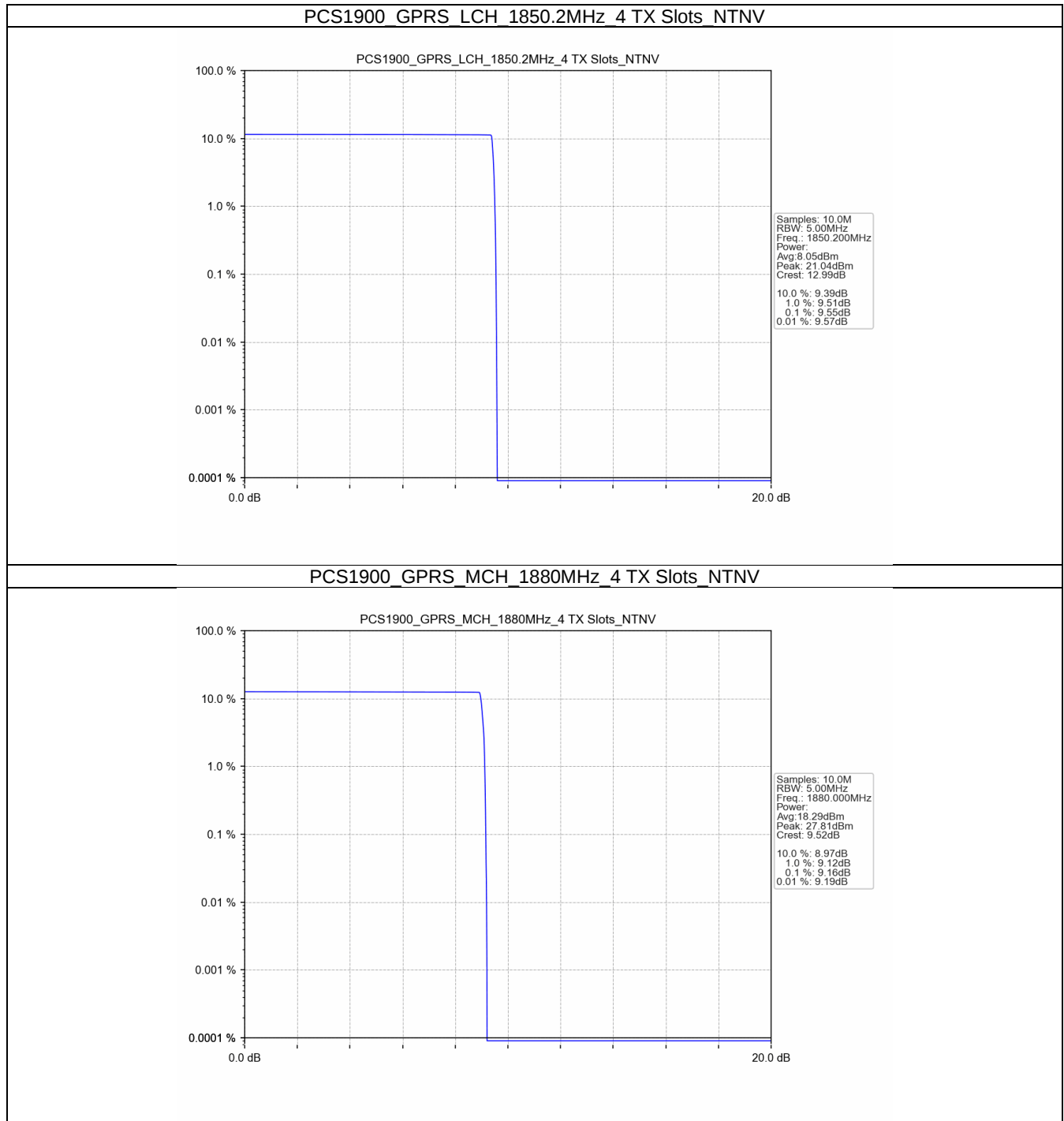
4.1 Test Result

4.1.1 PCS1900

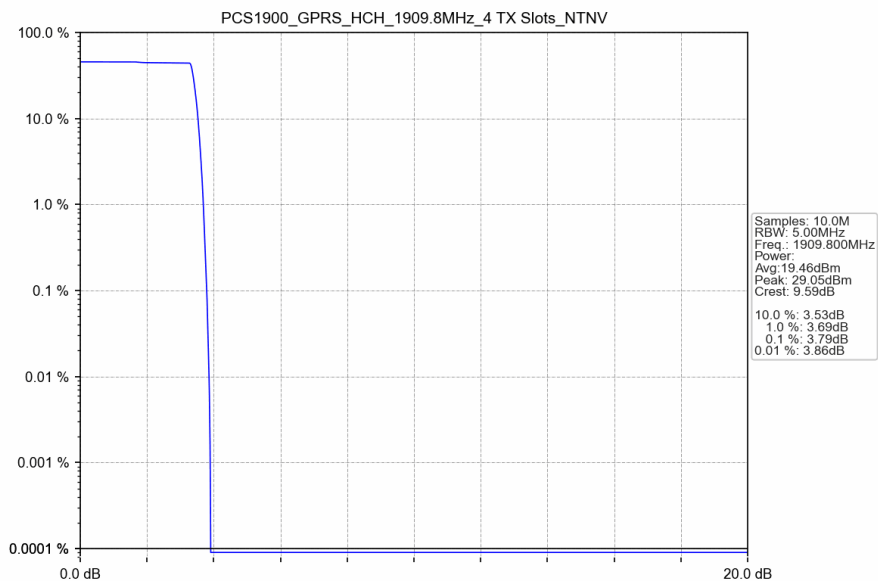
Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	1850.2	9.55	<=13	Pass
			1880	9.16	<=13	Pass
			1909.8	3.79	<=13	Pass
	EGPRS	4 TX Slots	1850.2	7.86	<=13	Pass
			1880	7.68	<=13	Pass
			1909.8	7.66	<=13	Pass

4.2 Test Graph

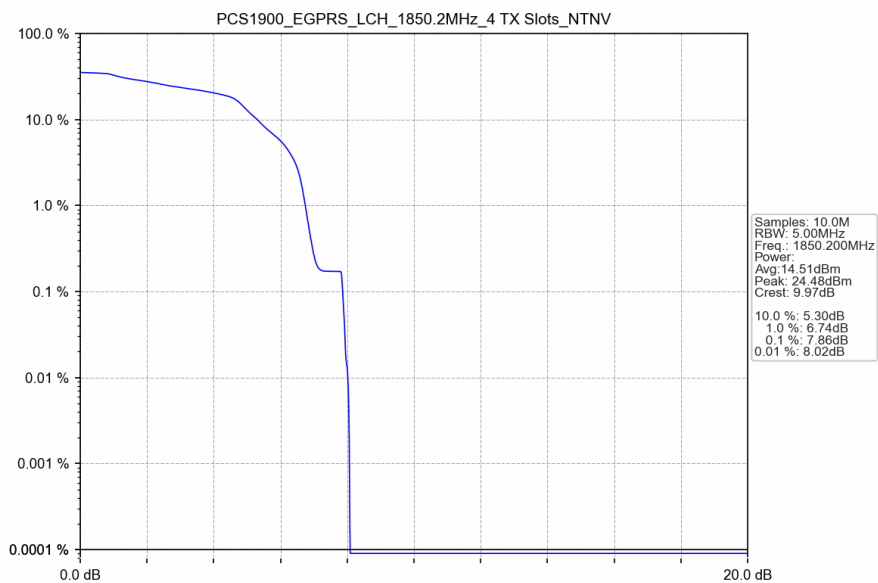
4.2.1 PCS1900



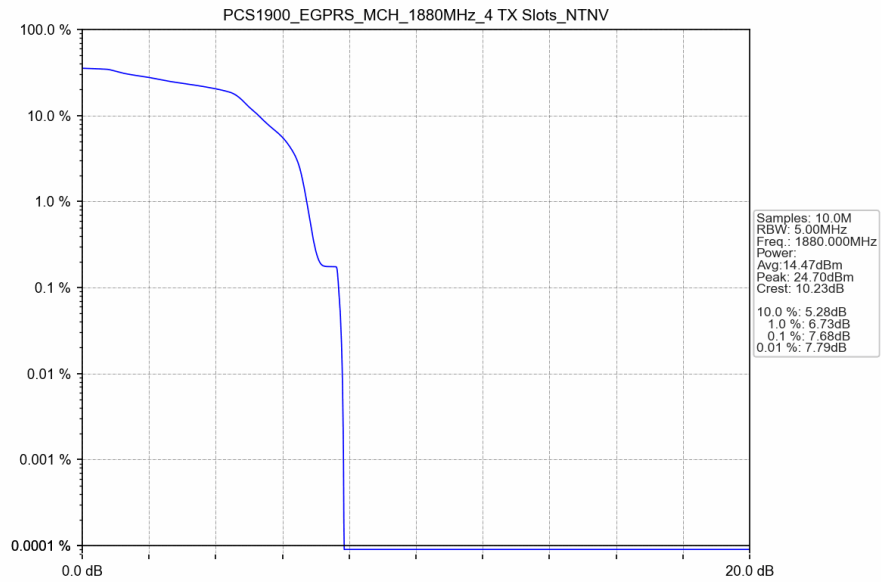
PCS1900_GPRS_HCH_1909.8MHz_4 TX Slots_NTNV



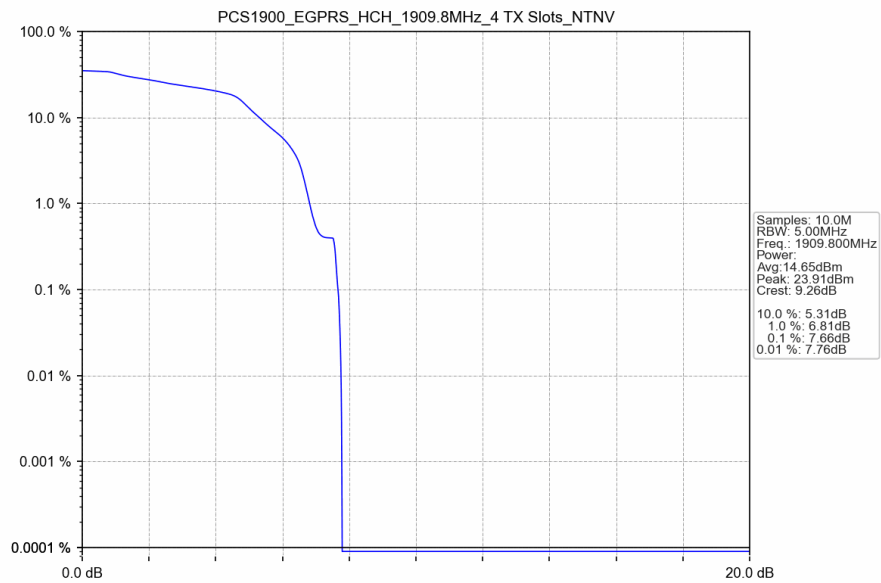
PCS1900_EGPRS_LCH_1850.2MHz_4 TX Slots_NTNV



PCS1900_EGPRS_MCH_1880MHz_4 TX Slots_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_4 TX Slots_NTNV





5. Spurious Emission

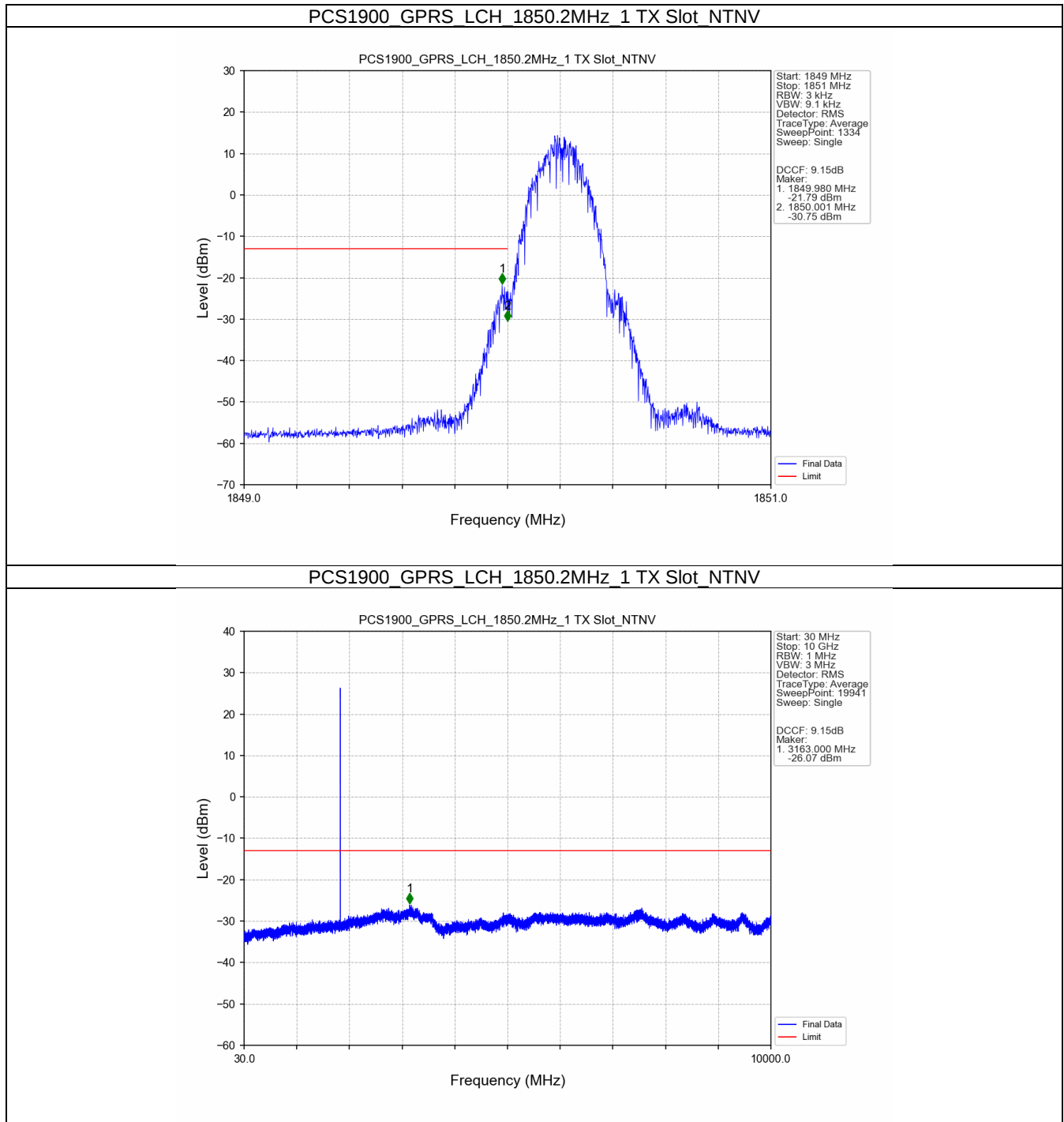
5.1 Test Result

5.1.1 PCS1900

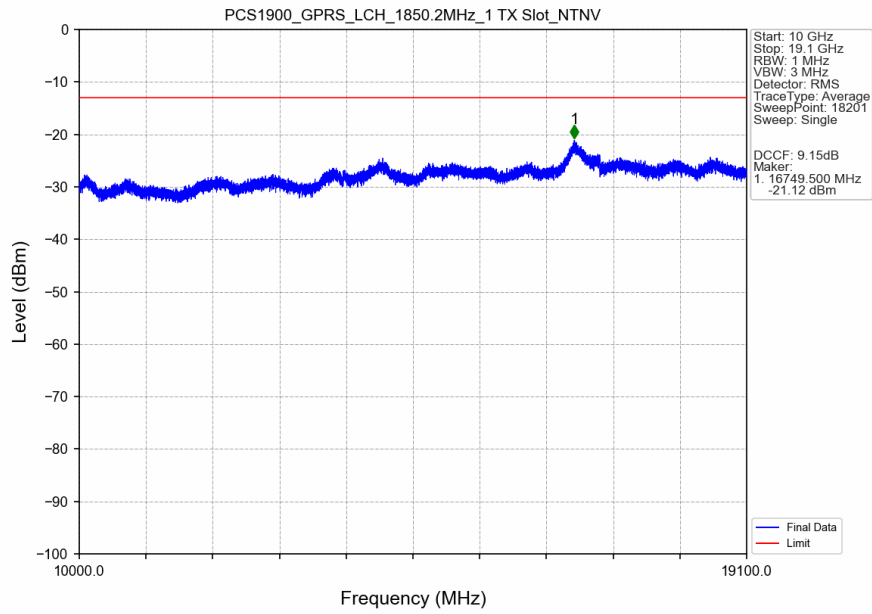
Band: PCS1900					
ENV	Mode		Frequency (MHz)	Spurious Emission	
	Network	Subset		Result	Limit
NTNV	GPRS	1 TX Slot	1850.2	Refer To Test Graph	Pass
			1880	Refer To Test Graph	Pass
			1909.8	Refer To Test Graph	Pass
	EGPRS	1 TX Slot	1850.2	Refer To Test Graph	Pass
			1880	Refer To Test Graph	Pass
			1909.8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

5.2 Test Graph

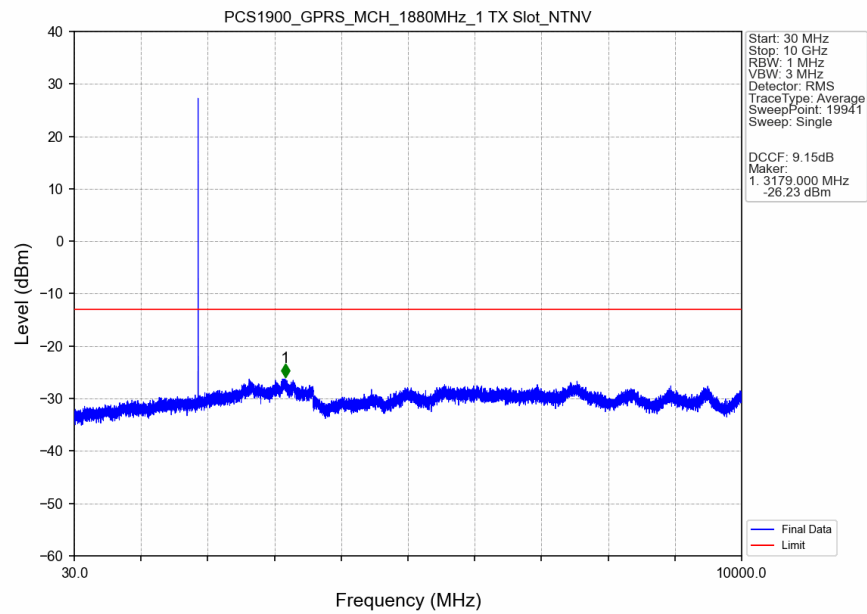
5.2.1 PCS1900



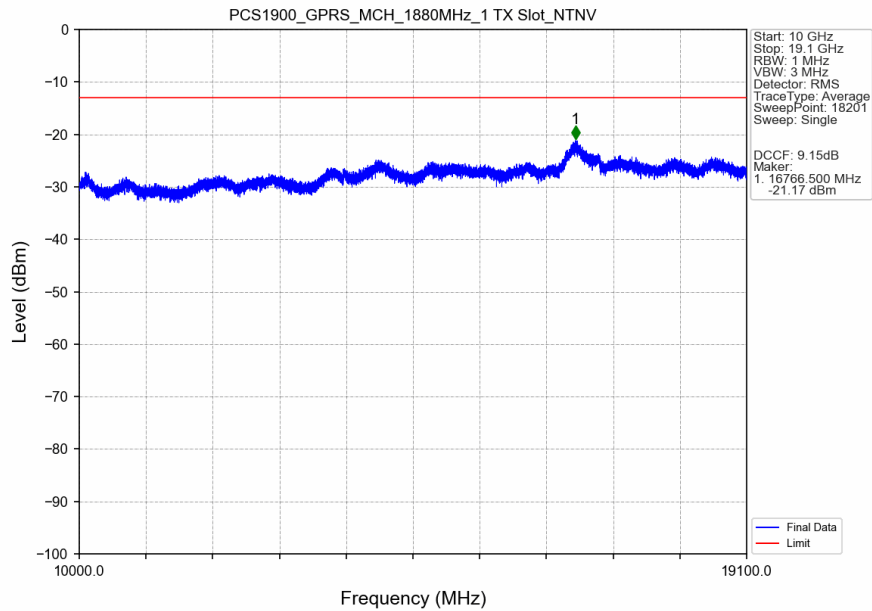
PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



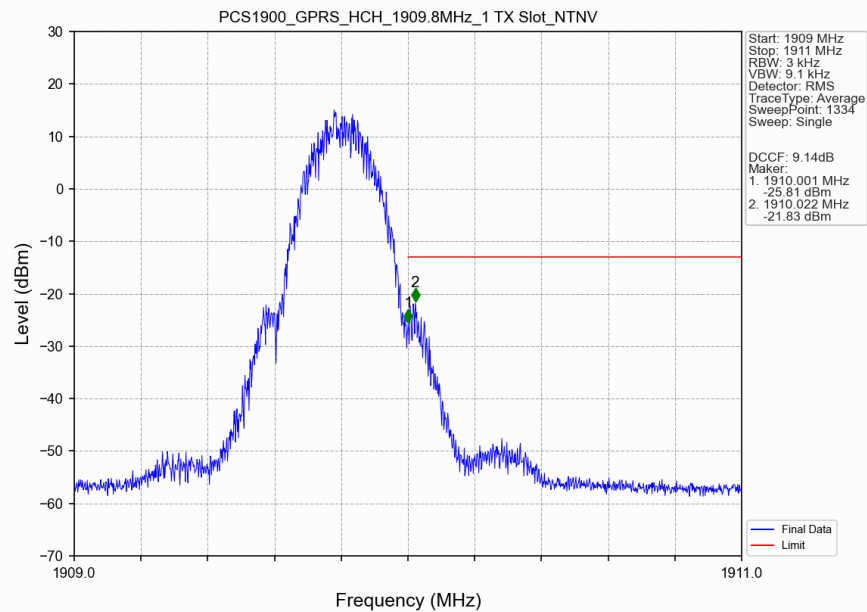
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



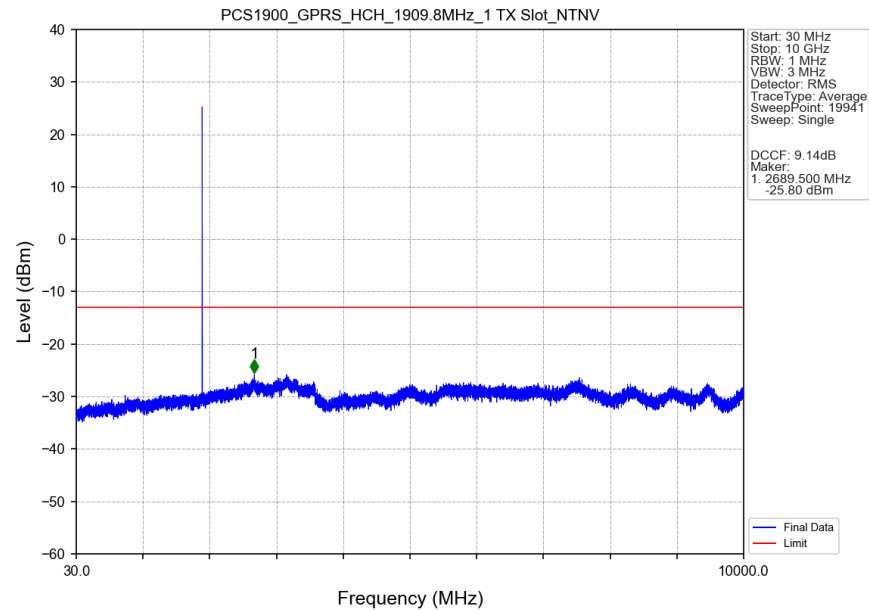
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



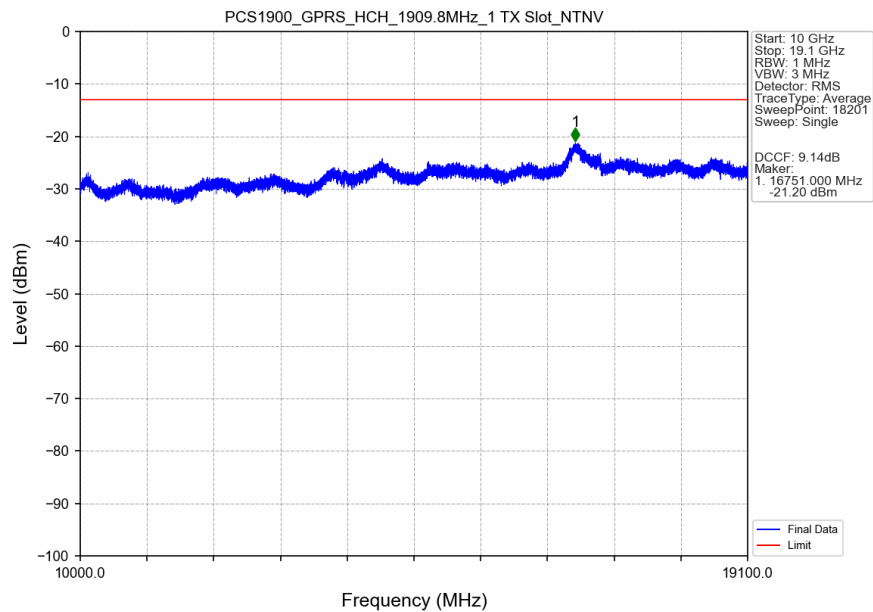
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



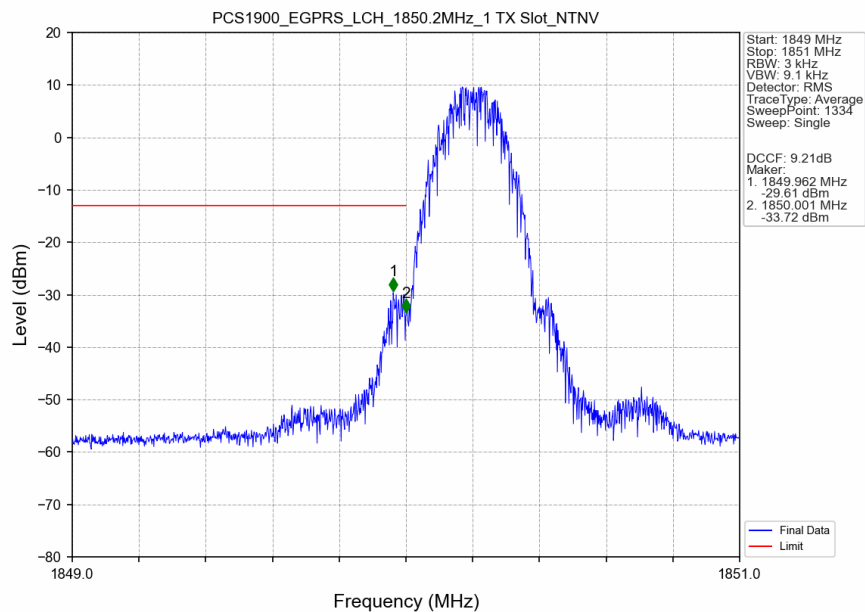
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



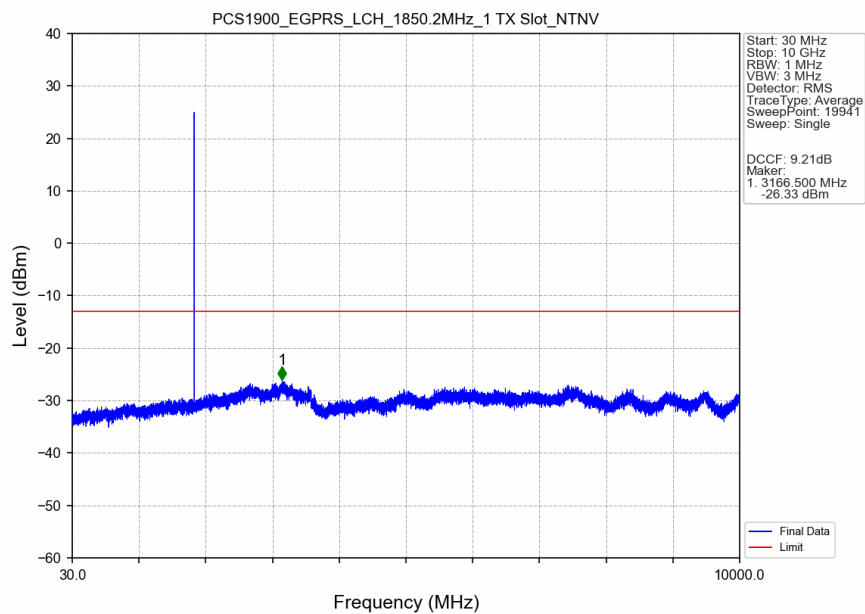
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



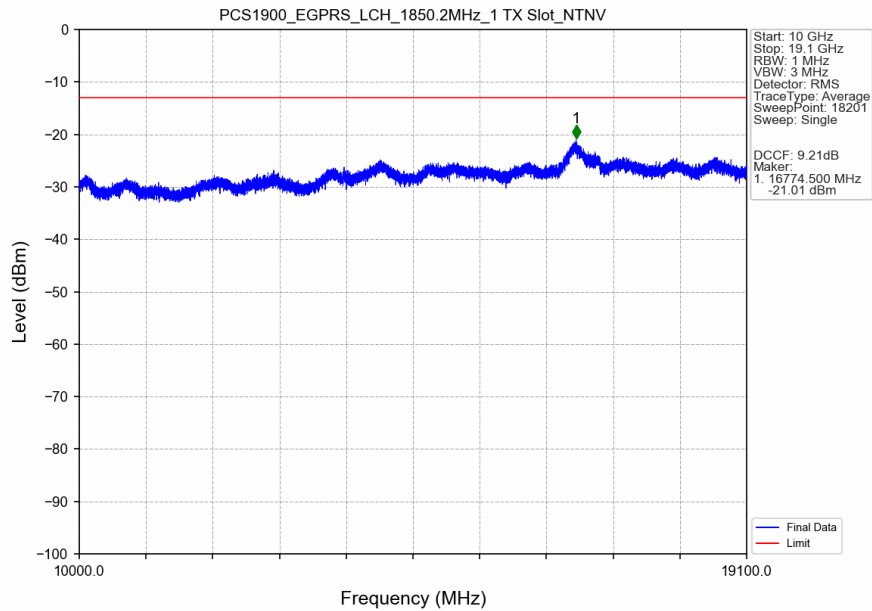
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



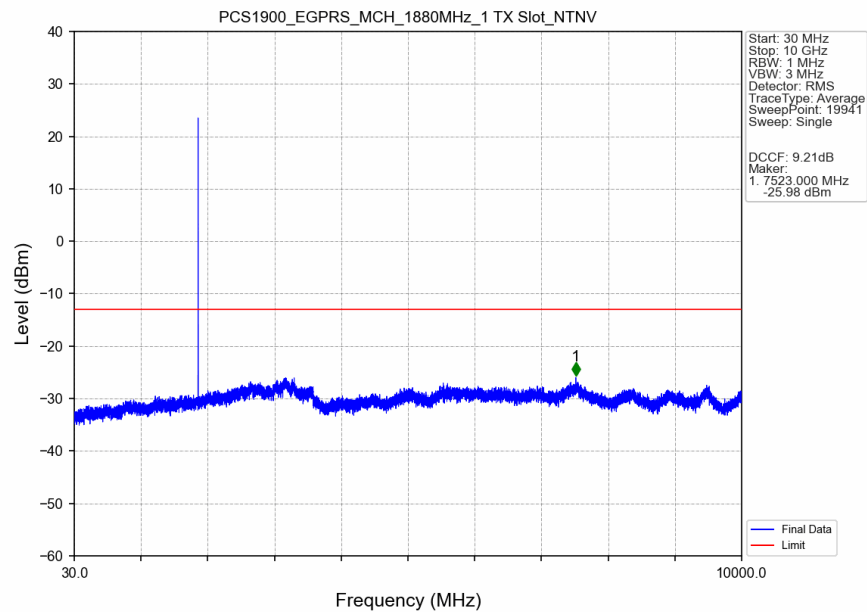
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



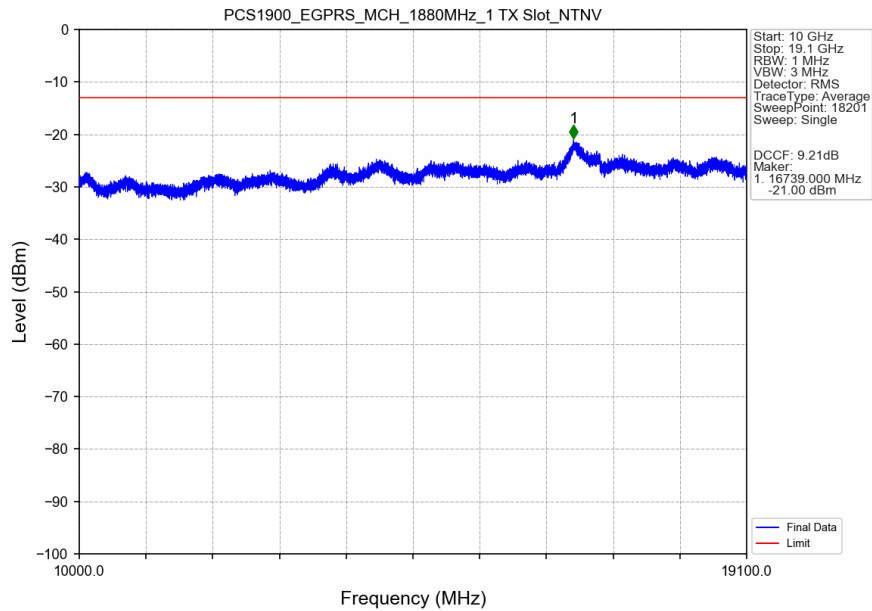
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



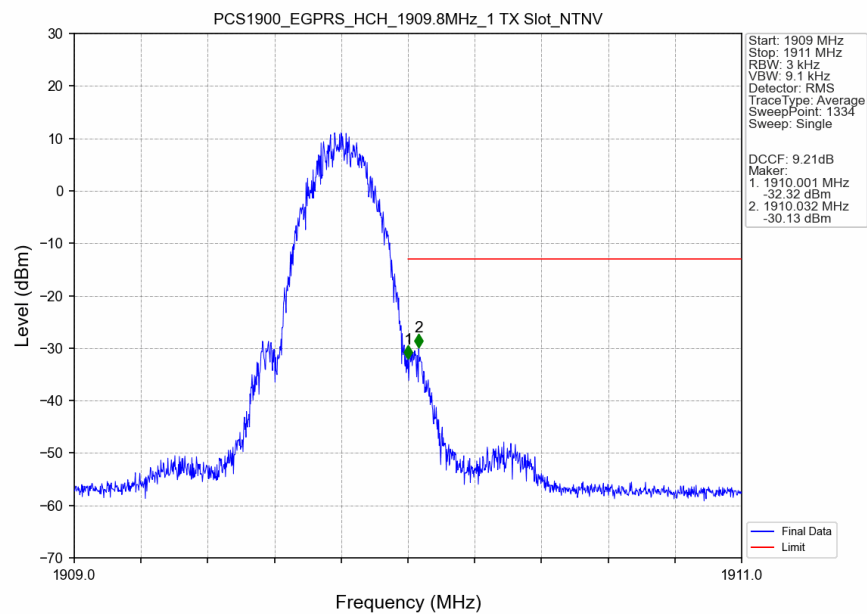
PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



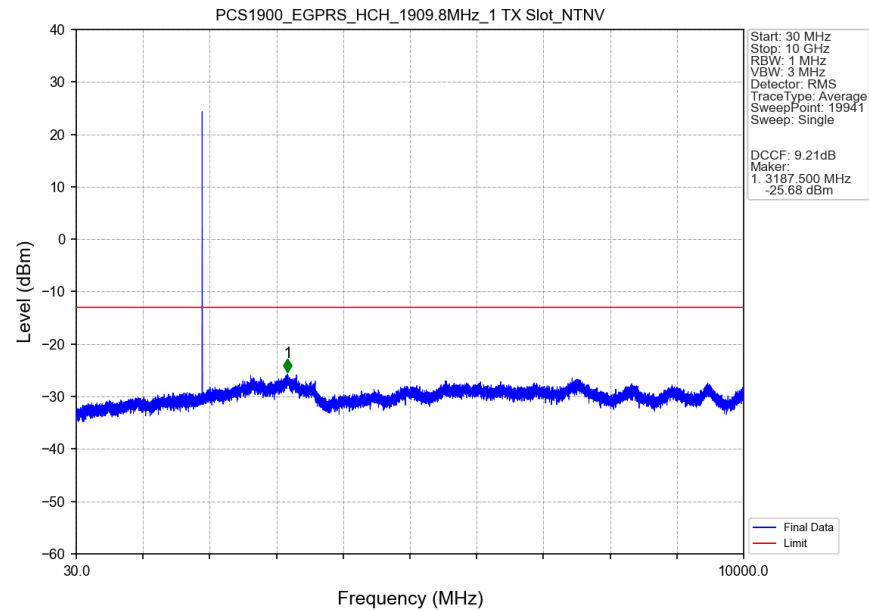
PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



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

