

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	29.67	2.63	32.30	<=33.01	Pass
		2 TX Slots	1850.2	28.58	2.63	31.21	<=33.01	Pass
		3 TX Slots	1850.2	26.63	2.63	29.26	<=33.01	Pass
		4 TX Slots	1850.2	25.57	2.63	28.20	<=33.01	Pass
		1 TX Slot	1880	29.79	2.63	32.42	<=33.01	Pass
		2 TX Slots	1880	28.71	2.63	31.34	<=33.01	Pass
		3 TX Slots	1880	26.78	2.63	29.41	<=33.01	Pass
		4 TX Slots	1880	25.86	2.63	28.49	<=33.01	Pass
		1 TX Slot	1909.8	30.25	2.63	32.88	<=33.01	Pass
		2 TX Slots	1909.8	28.89	2.63	31.52	<=33.01	Pass
		3 TX Slots	1909.8	27.25	2.63	29.88	<=33.01	Pass
		4 TX Slots	1909.8	26.31	2.63	28.94	<=33.01	Pass
	EGPRS	1 TX Slot	1850.2	26.17	2.63	28.80	<=33.01	Pass
		2 TX Slots	1850.2	25.45	2.63	28.08	<=33.01	Pass
		3 TX Slots	1850.2	23.38	2.63	26.01	<=33.01	Pass
		4 TX Slots	1850.2	22.65	2.63	25.28	<=33.01	Pass
		1 TX Slot	1880	27.13	2.63	29.76	<=33.01	Pass
		2 TX Slots	1880	25.73	2.63	28.36	<=33.01	Pass
		3 TX Slots	1880	23.50	2.63	26.13	<=33.01	Pass
		4 TX Slots	1880	22.65	2.63	25.28	<=33.01	Pass
		1 TX Slot	1909.8	26.49	2.63	29.12	<=33.01	Pass
		2 TX Slots	1909.8	25.96	2.63	28.59	<=33.01	Pass
		3 TX Slots	1909.8	23.74	2.63	26.37	<=33.01	Pass
		4 TX Slots	1909.8	23.03	2.63	25.66	<=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	16.849	0.0091	-2.5 to 2.5	Pass
			NV	22.670	0.0123	-2.5 to 2.5	Pass
			HV	19.846	0.0107	-2.5 to 2.5	Pass
		-30	NV	21.816	0.0118	-2.5 to 2.5	Pass
		-20	NV	21.335	0.0115	-2.5 to 2.5	Pass
		-10	NV	15.471	0.0084	-2.5 to 2.5	Pass
		0	NV	17.045	0.0092	-2.5 to 2.5	Pass
		10	NV	19.472	0.0105	-2.5 to 2.5	Pass
		30	NV	9.048	0.0049	-2.5 to 2.5	Pass
		40	NV	11.869	0.0064	-2.5 to 2.5	Pass
		50	NV	15.049	0.0081	-2.5 to 2.5	Pass
	1880	20	LV	9.796	0.0052	-2.5 to 2.5	Pass
			NV	13.644	0.0073	-2.5 to 2.5	Pass
			HV	14.408	0.0077	-2.5 to 2.5	Pass
		-30	NV	12.223	0.0065	-2.5 to 2.5	Pass
		-20	NV	12.943	0.0069	-2.5 to 2.5	Pass
		-10	NV	11.901	0.0063	-2.5 to 2.5	Pass
		0	NV	14.516	0.0077	-2.5 to 2.5	Pass
		10	NV	14.508	0.0077	-2.5 to 2.5	Pass
		30	NV	10.111	0.0054	-2.5 to 2.5	Pass
		40	NV	12.658	0.0067	-2.5 to 2.5	Pass
		50	NV	12.734	0.0068	-2.5 to 2.5	Pass
	1909.8	20	LV	16.503	0.0086	-2.5 to 2.5	Pass
			NV	14.683	0.0077	-2.5 to 2.5	Pass
			HV	15.406	0.0081	-2.5 to 2.5	Pass
		-30	NV	21.619	0.0113	-2.5 to 2.5	Pass
		-20	NV	18.536	0.0097	-2.5 to 2.5	Pass
		-10	NV	18.137	0.0095	-2.5 to 2.5	Pass
		0	NV	19.742	0.0103	-2.5 to 2.5	Pass
		10	NV	16.088	0.0084	-2.5 to 2.5	Pass
		30	NV	19.358	0.0101	-2.5 to 2.5	Pass
		40	NV	18.044	0.0094	-2.5 to 2.5	Pass
		50	NV	17.658	0.0092	-2.5 to 2.5	Pass
EGPRS	1850.2	20	LV	19.465	0.0105	-2.5 to 2.5	Pass
			NV	17.612	0.0095	-2.5 to 2.5	Pass
			HV	18.884	0.0102	-2.5 to 2.5	Pass
		-30	NV	19.173	0.0104	-2.5 to 2.5	Pass
		-20	NV	17.211	0.0093	-2.5 to 2.5	Pass
		-10	NV	16.718	0.0090	-2.5 to 2.5	Pass
		0	NV	22.060	0.0119	-2.5 to 2.5	Pass
		10	NV	22.011	0.0119	-2.5 to 2.5	Pass
		30	NV	17.167	0.0093	-2.5 to 2.5	Pass
		40	NV	20.625	0.0111	-2.5 to 2.5	Pass
		50	NV	19.671	0.0106	-2.5 to 2.5	Pass
	1880	20	LV	14.229	0.0076	-2.5 to 2.5	Pass
			NV	11.543	0.0061	-2.5 to 2.5	Pass

			HV	16.231	0.0086	-2.5 to 2.5	Pass
		-30	NV	17.032	0.0091	-2.5 to 2.5	Pass
		-20	NV	12.930	0.0069	-2.5 to 2.5	Pass
		-10	NV	12.131	0.0065	-2.5 to 2.5	Pass
		0	NV	14.012	0.0075	-2.5 to 2.5	Pass
		10	NV	15.159	0.0081	-2.5 to 2.5	Pass
		30	NV	13.472	0.0072	-2.5 to 2.5	Pass
		40	NV	18.528	0.0099	-2.5 to 2.5	Pass
		50	NV	16.287	0.0087	-2.5 to 2.5	Pass
	1909.8	20	LV	17.140	0.0090	-2.5 to 2.5	Pass
			NV	20.263	0.0106	-2.5 to 2.5	Pass
			HV	22.399	0.0117	-2.5 to 2.5	Pass
		-30	NV	22.050	0.0115	-2.5 to 2.5	Pass
		-20	NV	20.180	0.0106	-2.5 to 2.5	Pass
		-10	NV	18.712	0.0098	-2.5 to 2.5	Pass
		0	NV	22.645	0.0119	-2.5 to 2.5	Pass
		10	NV	17.114	0.0090	-2.5 to 2.5	Pass
		30	NV	17.875	0.0094	-2.5 to 2.5	Pass
		40	NV	18.120	0.0095	-2.5 to 2.5	Pass
		50	NV	17.303	0.0091	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 PCS1900_OBW

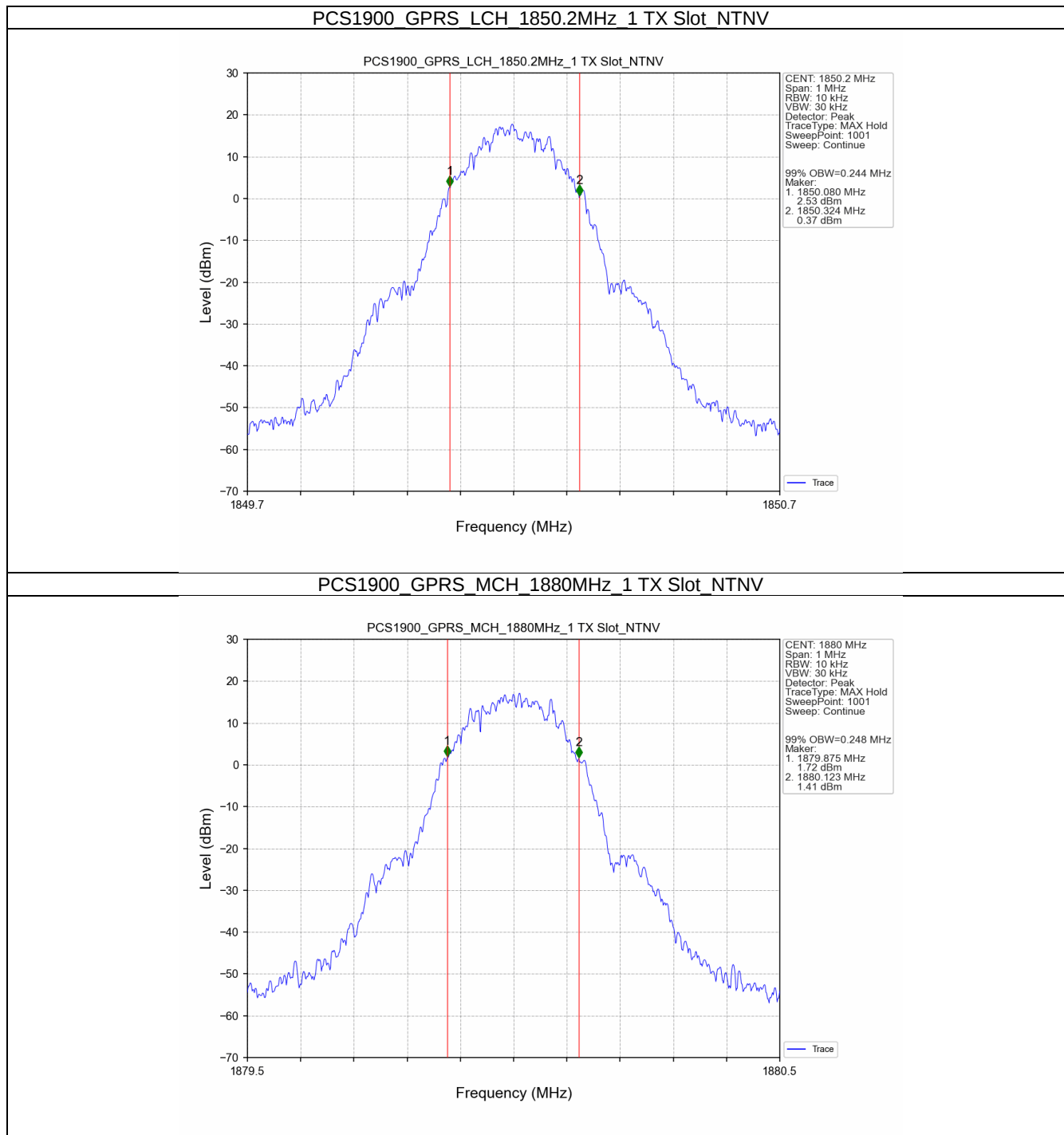
Band: PCS1900						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	0.244	/	Pass
			1880	0.248	/	Pass
			1909.8	0.245	/	Pass
	EGPRS	1 TX Slot	1850.2	0.247	/	Pass
			1880	0.242	/	Pass
			1909.8	0.248	/	Pass

3.1.2 PCS1900_XDB

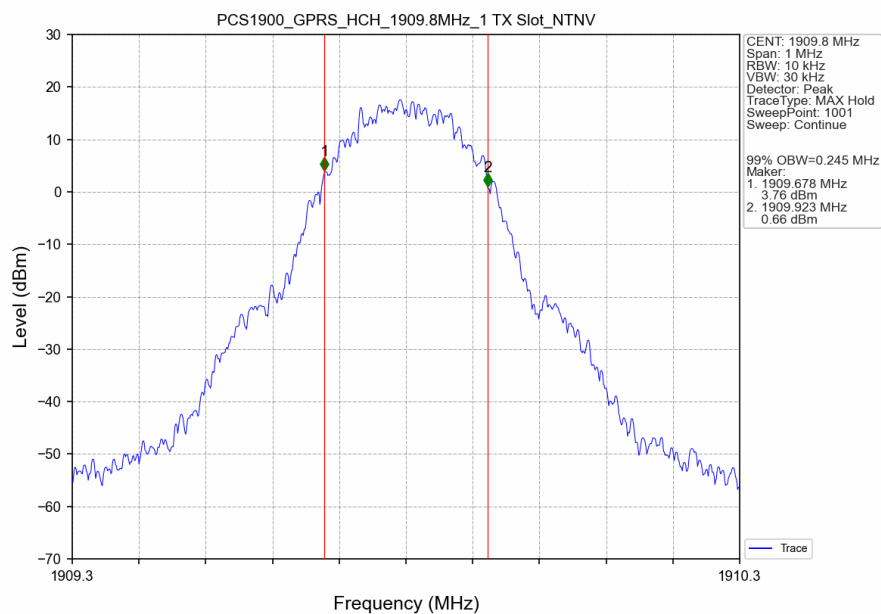
Band: PCS1900						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	0.314	/	Pass
			1880	0.311	/	Pass
			1909.8	0.316	/	Pass
	EGPRS	1 TX Slot	1850.2	0.318	/	Pass
			1880	0.312	/	Pass
			1909.8	0.321	/	Pass

3.2 Test Graph

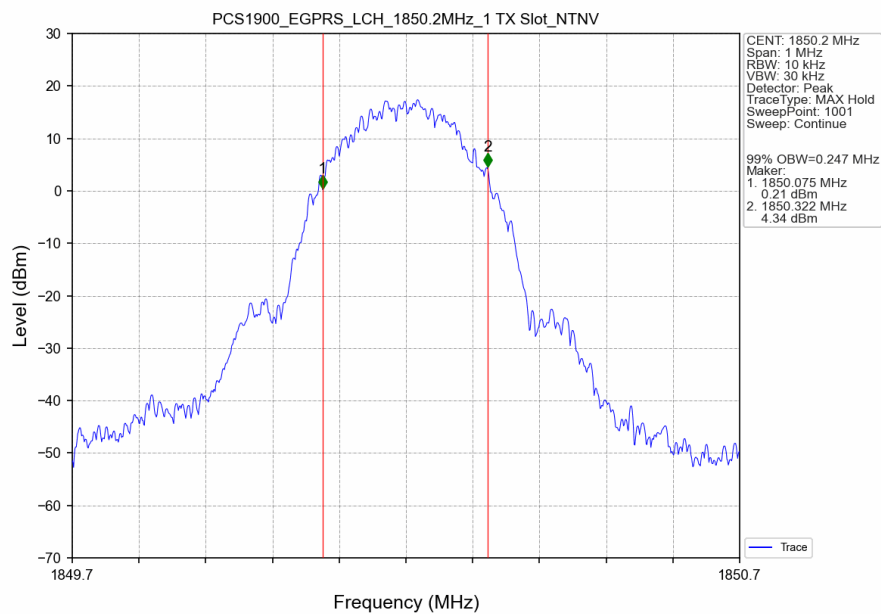
3.2.1 PCS1900_OBW



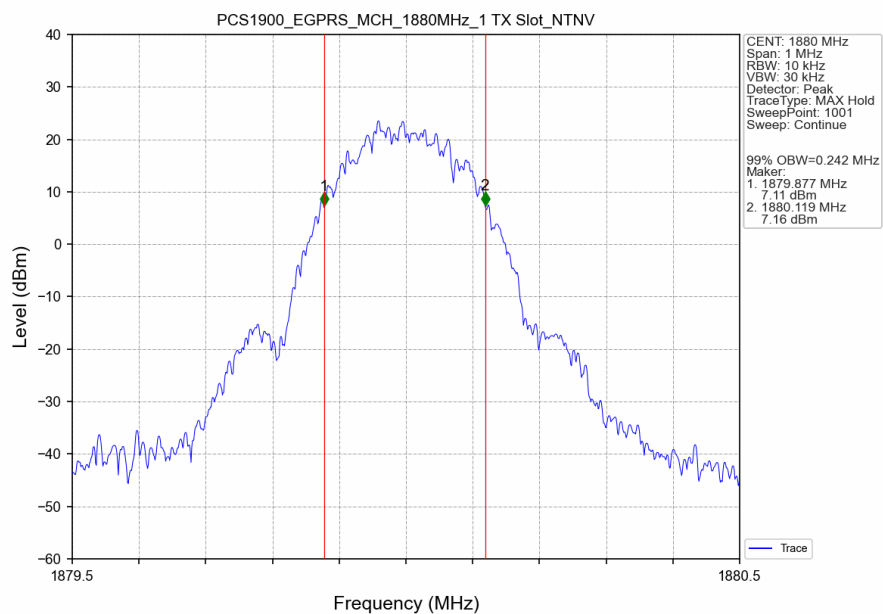
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



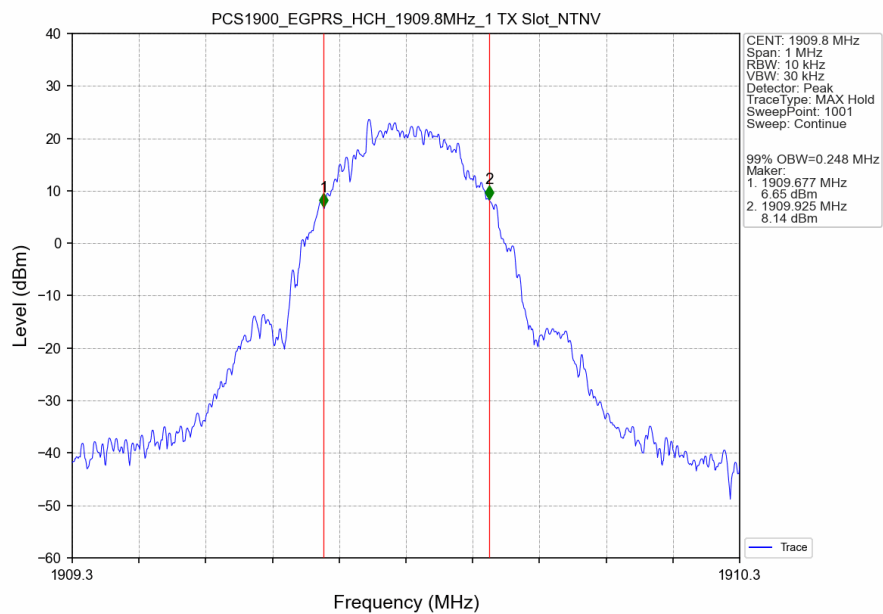
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



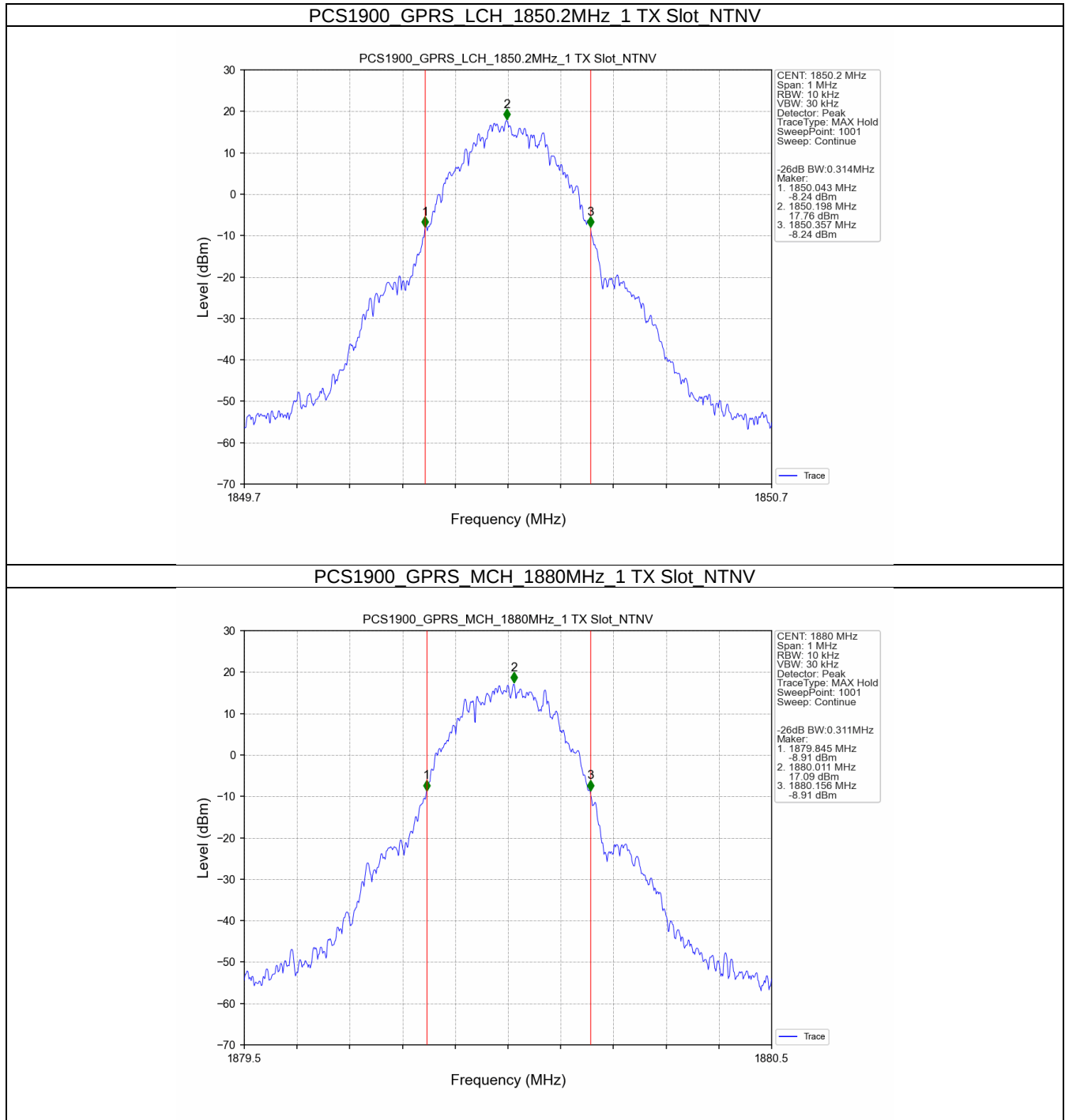
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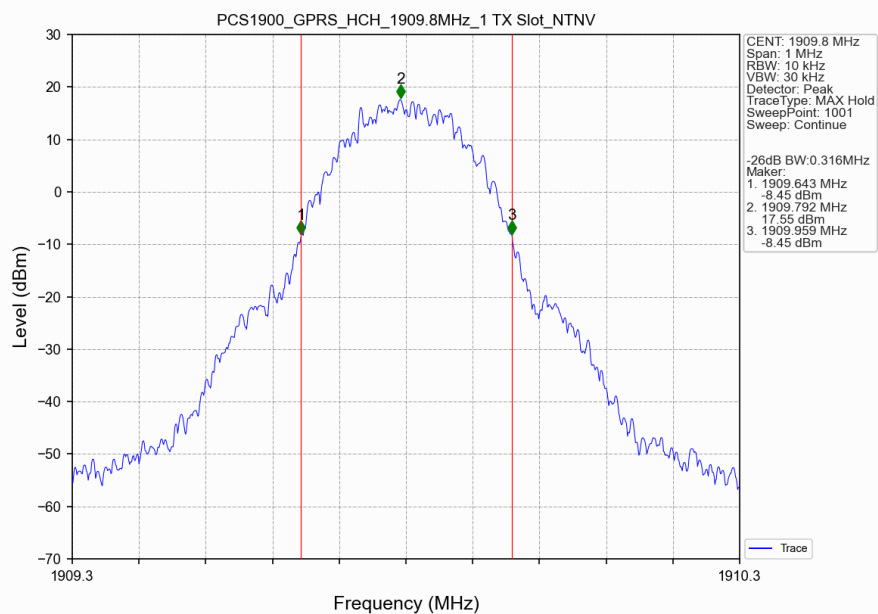
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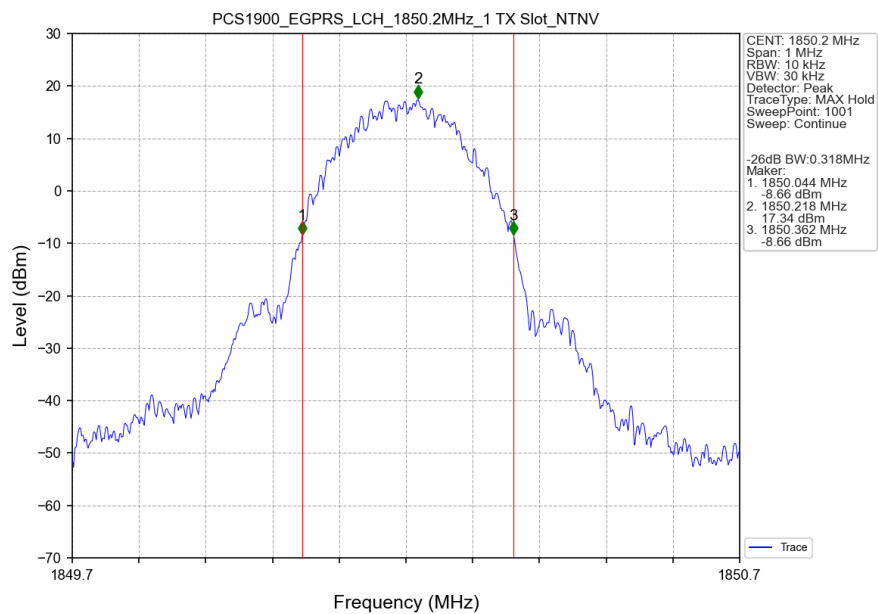
3.2.2 PCS1900_XDB



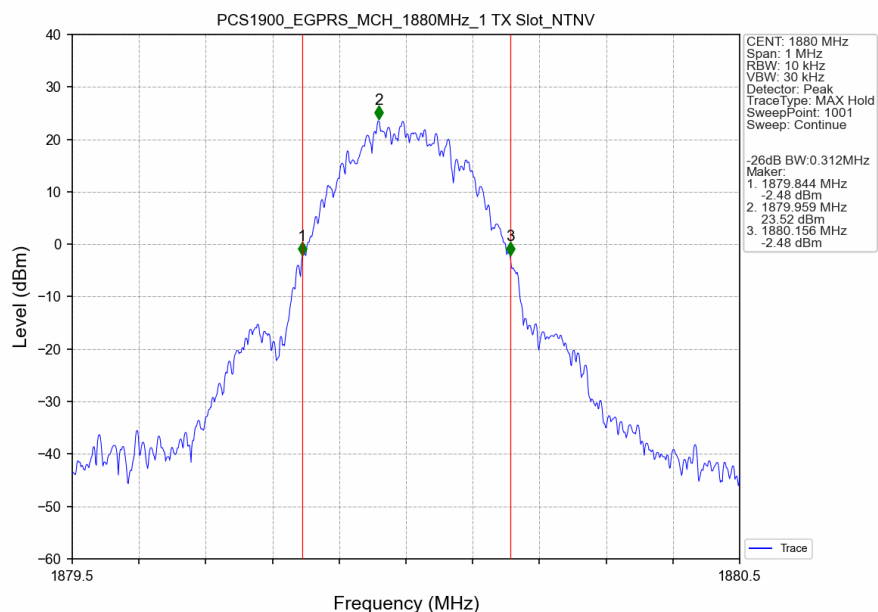
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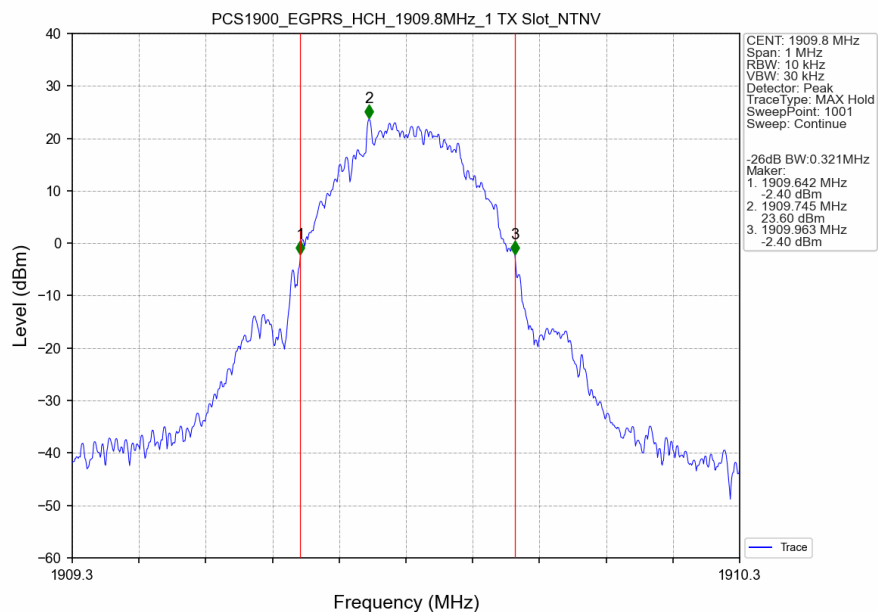
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV





4. Peak-Average Ratio

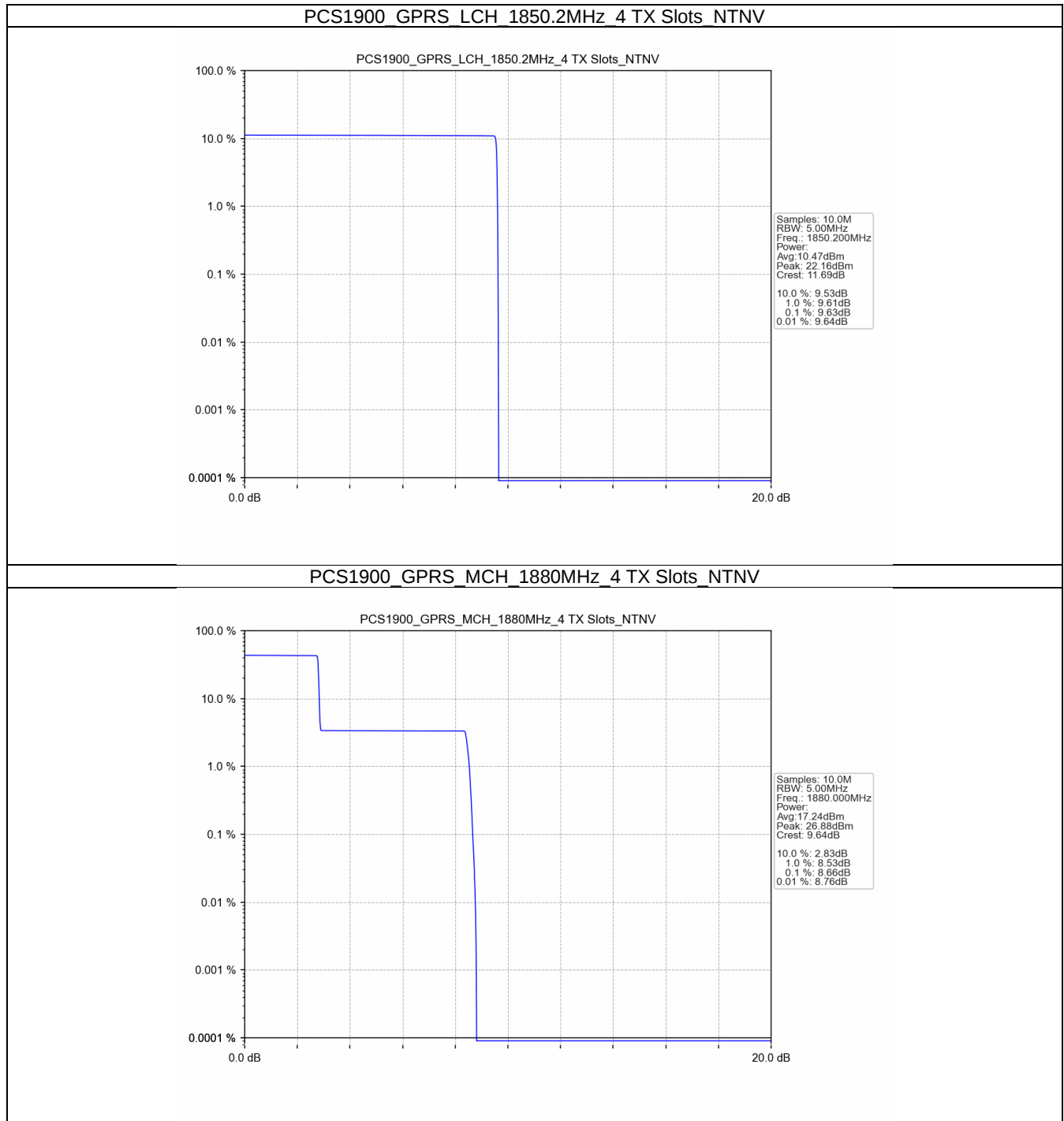
4.1 Test Result

4.1.1 PCS1900

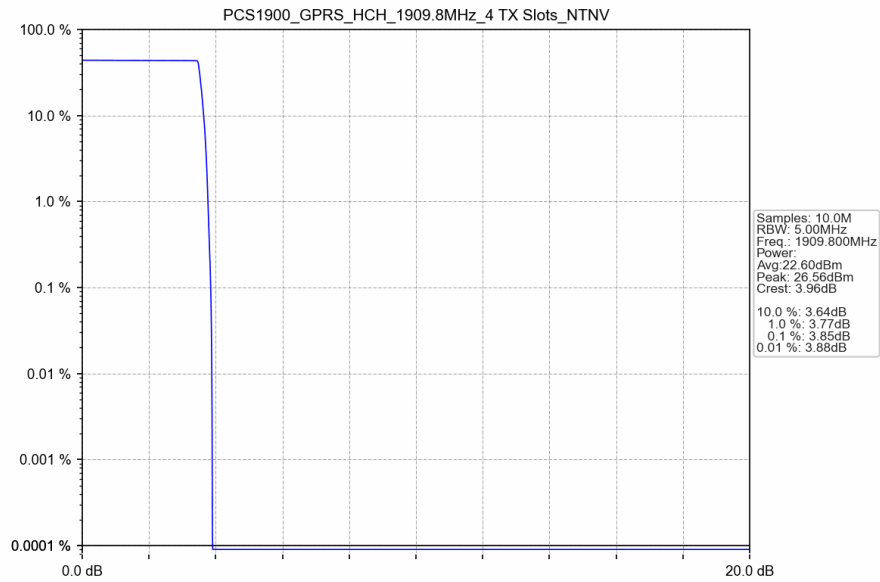
Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	1850.2	9.63	<=13	Pass
			1880	8.66	<=13	Pass
			1909.8	3.85	<=13	Pass
	EGPRS	4 TX Slots	1850.2	6.78	<=13	Pass
			1880	6.72	<=13	Pass
			1909.8	6.87	<=13	Pass

4.2 Test Graph

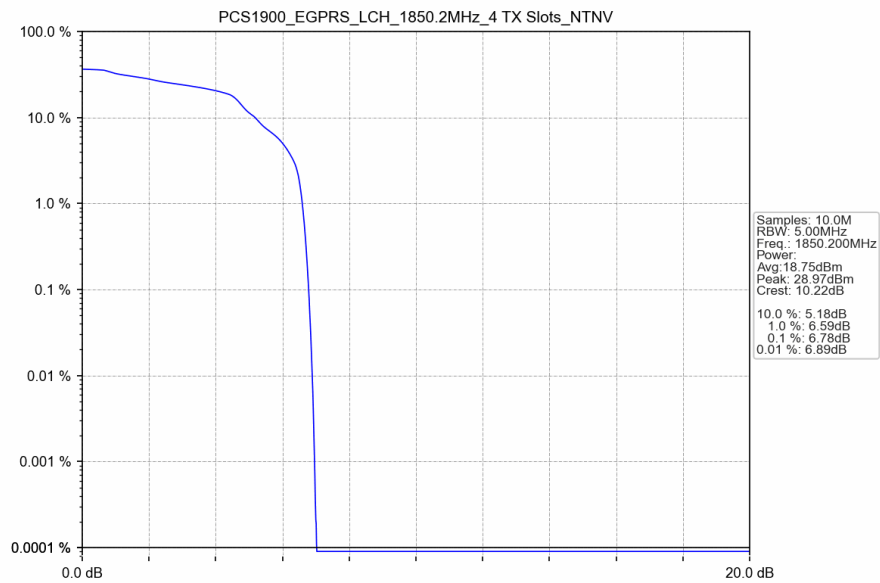
4.2.1 PCS1900



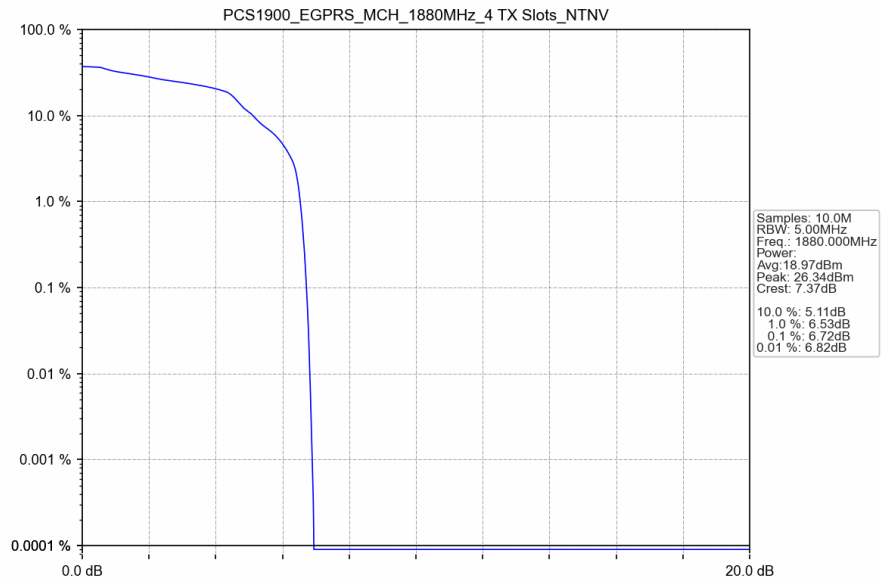
PCS1900_GPRS_HCH_1909.8MHz_4 TX Slots_NTNV



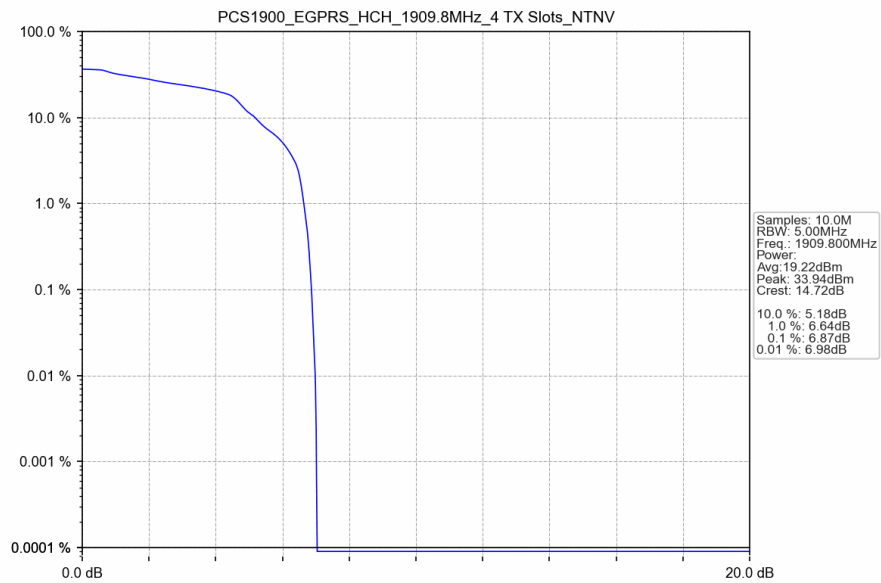
PCS1900_EGPRS_LCH_1850.2MHz_4 TX Slots_NTNV



PCS1900_EGPRS_MCH_1880MHz_4 TX Slots_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_4 TX Slots_NTNV





5. Spurious Emission

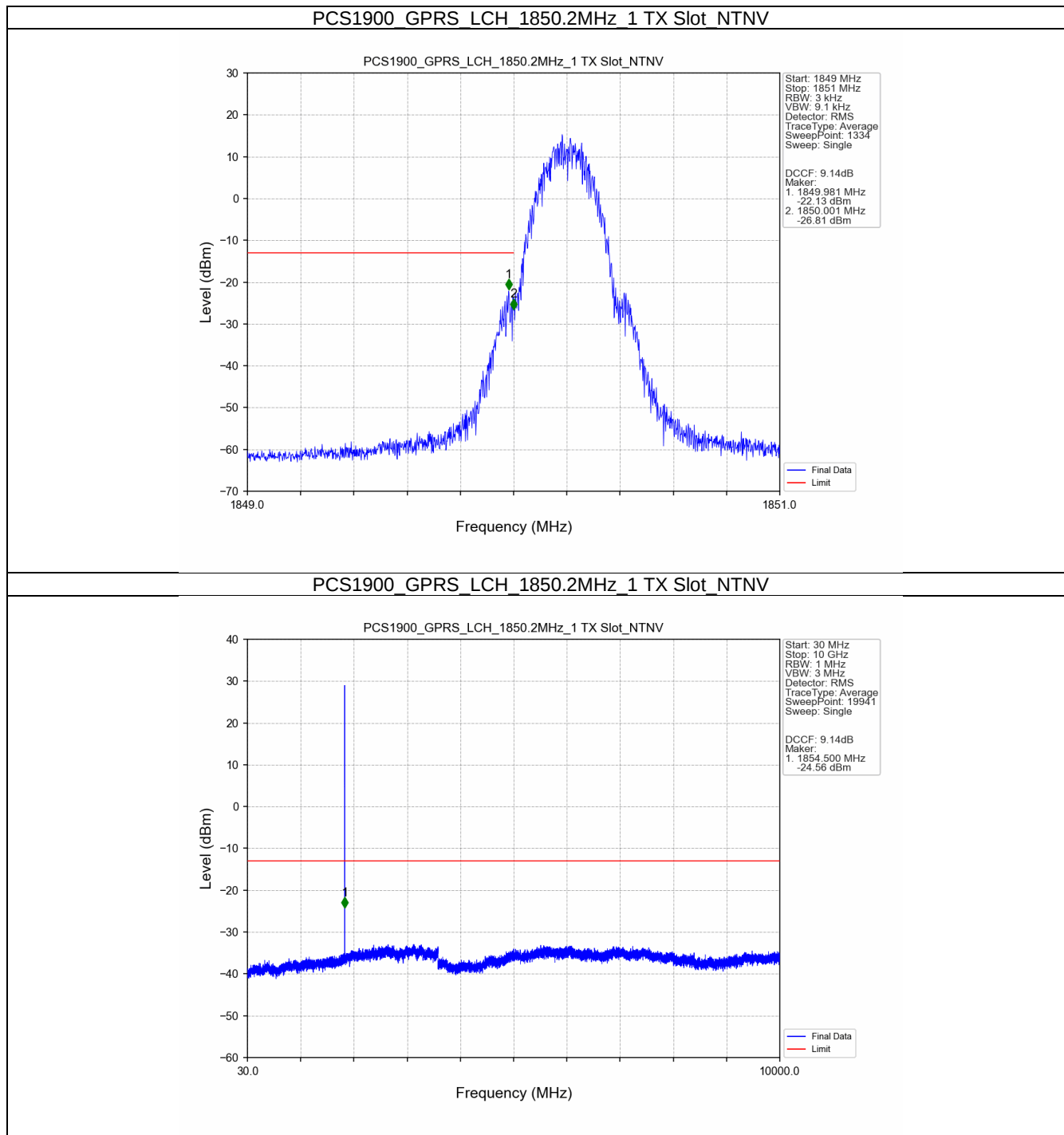
5.1 Test Result

5.1.1 PCS1900

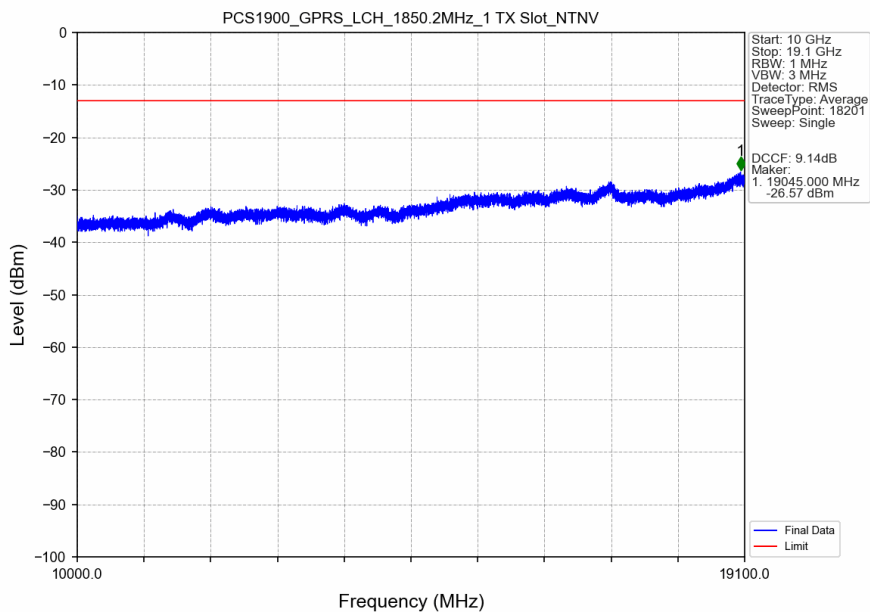
Band: PCS1900					
ENV	Mode		Frequency (MHz)	Spurious Emission	
	Network	Subset		Result	Limit
NTNV	GPRS	1 TX Slot	1850.2	Refer To Test Graph	Pass
			1880	Refer To Test Graph	Pass
			1909.8	Refer To Test Graph	Pass
	EGPRS	1 TX Slot	1850.2	Refer To Test Graph	Pass
			1880	Refer To Test Graph	Pass
			1909.8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

5.2 Test Graph

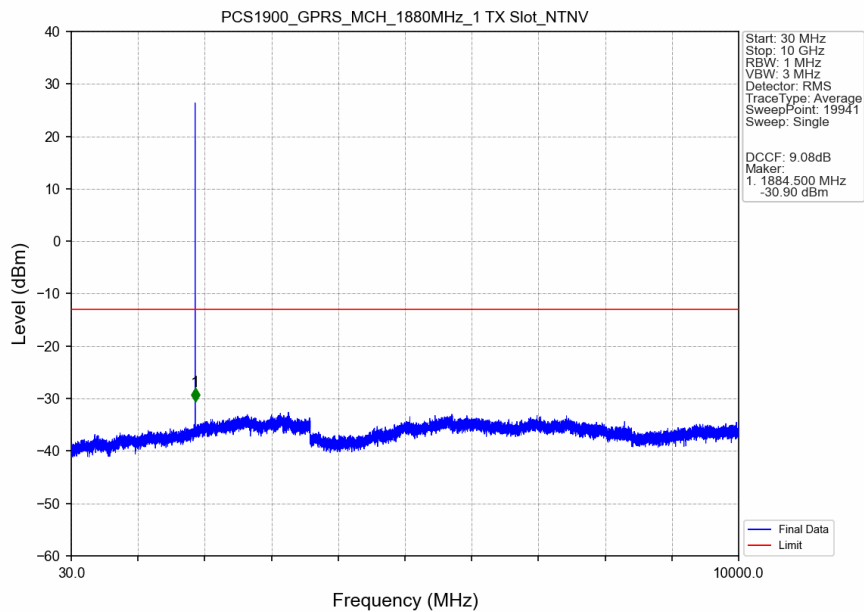
5.2.1 PCS1900



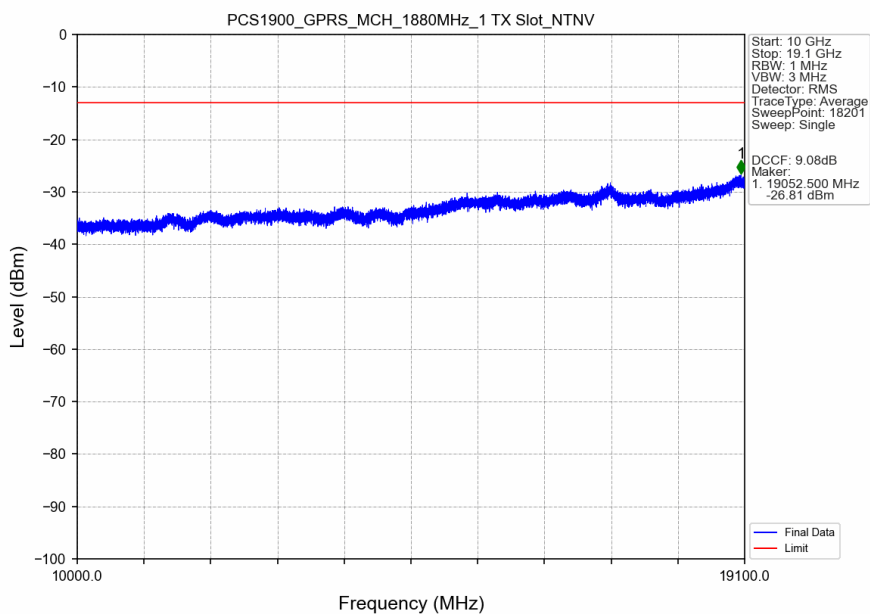
PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



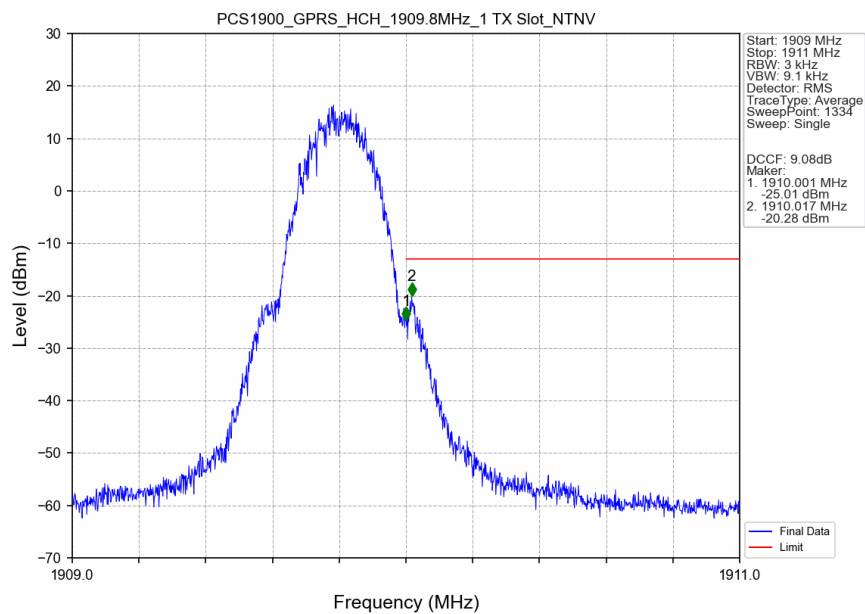
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



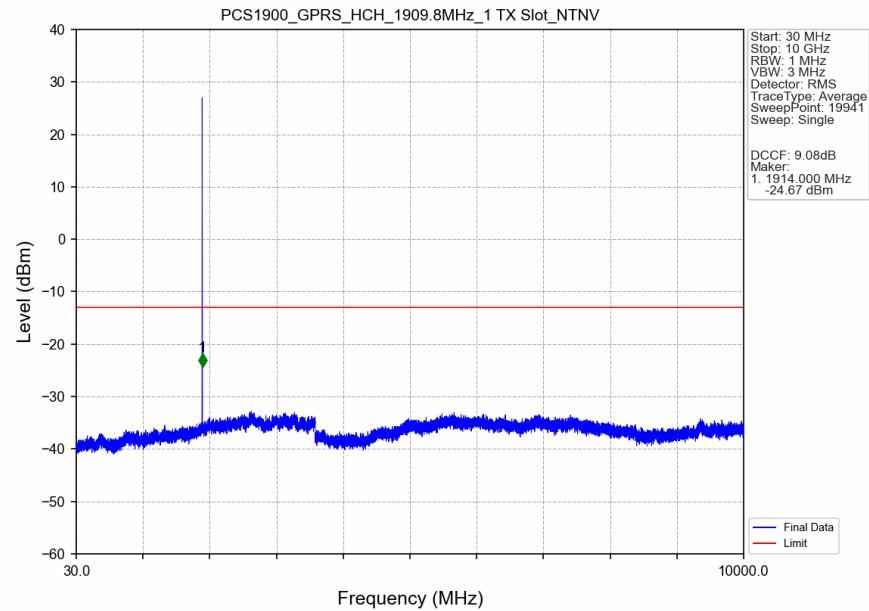
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



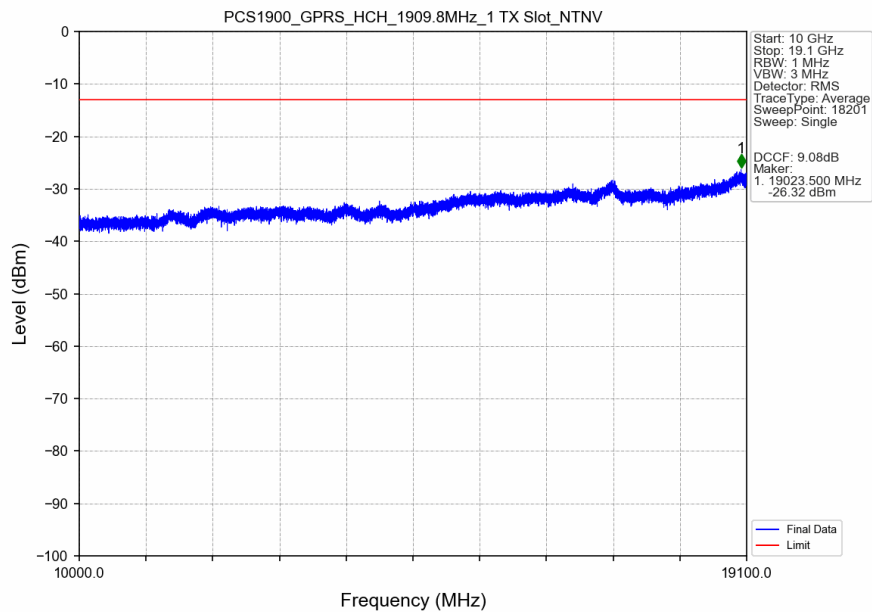
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



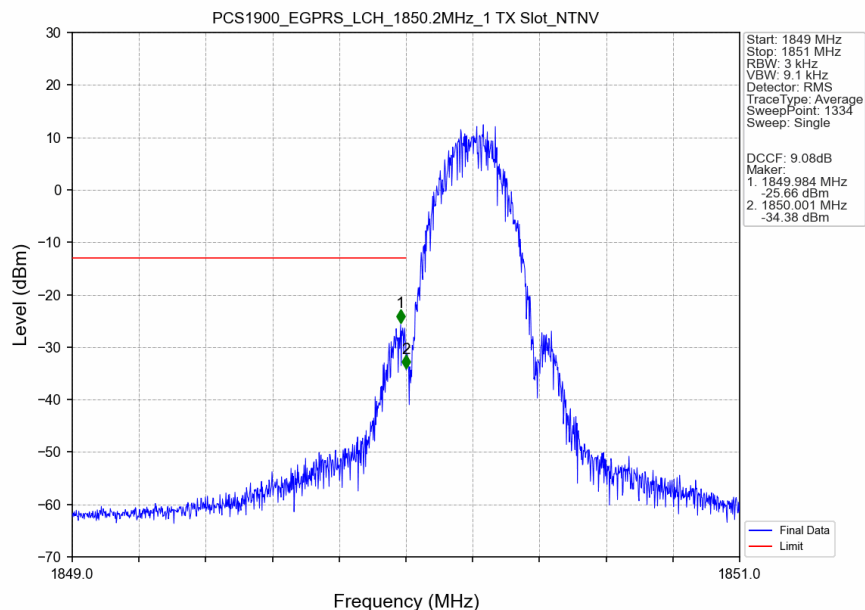
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



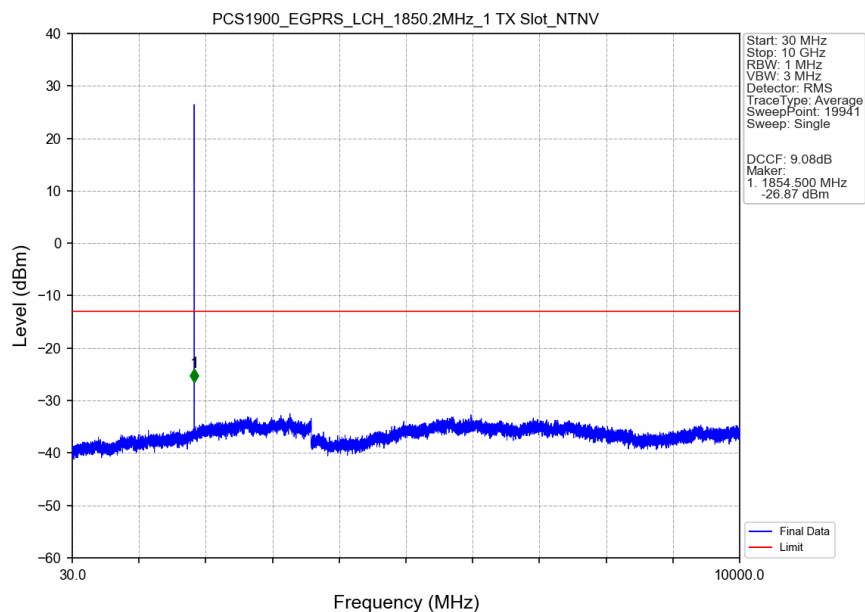
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



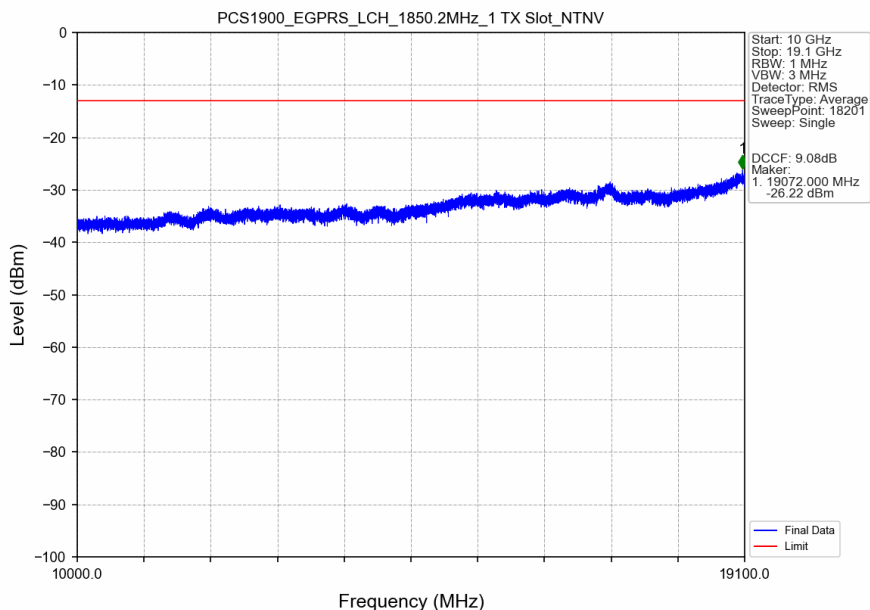
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



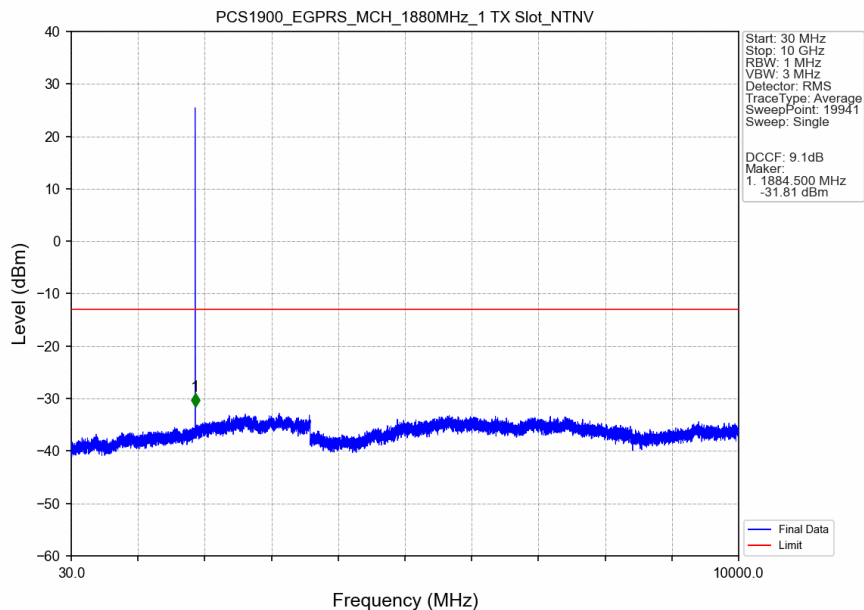
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



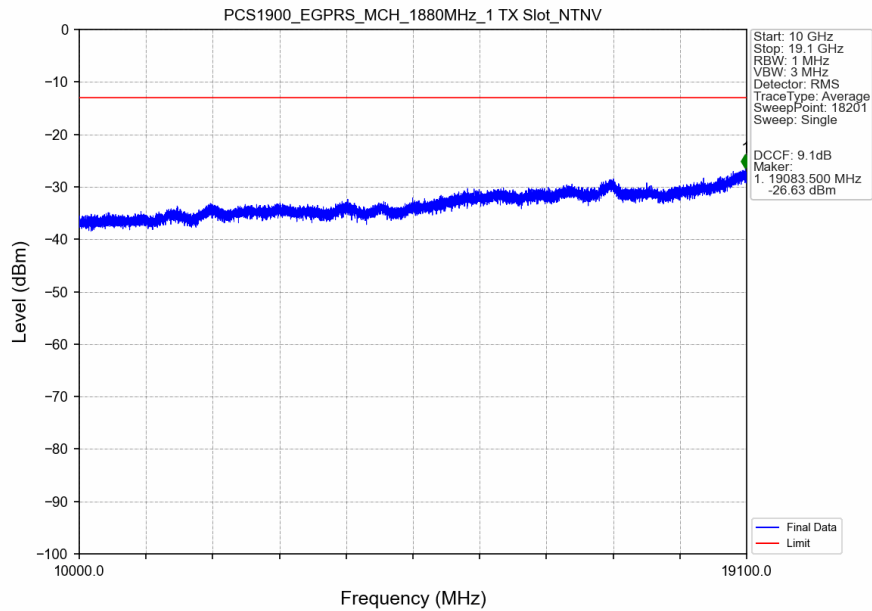
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



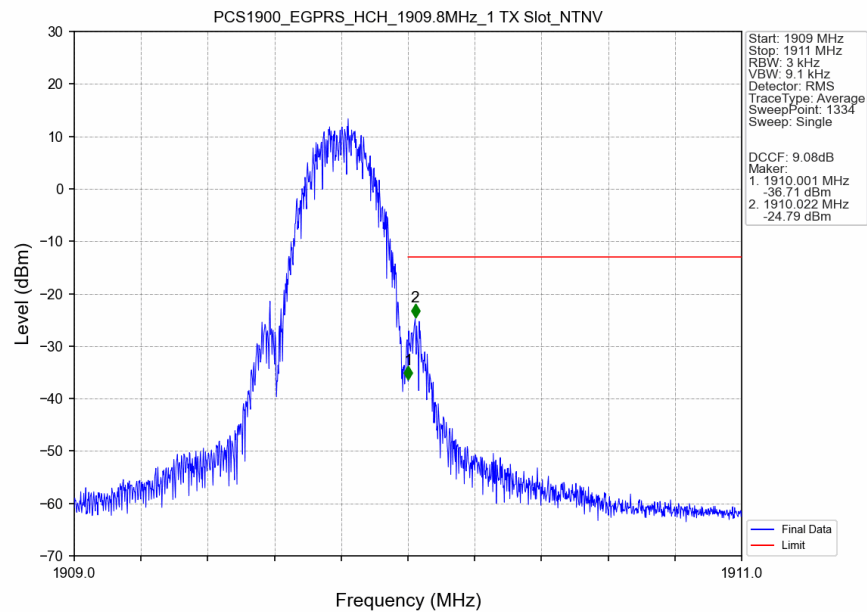
PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



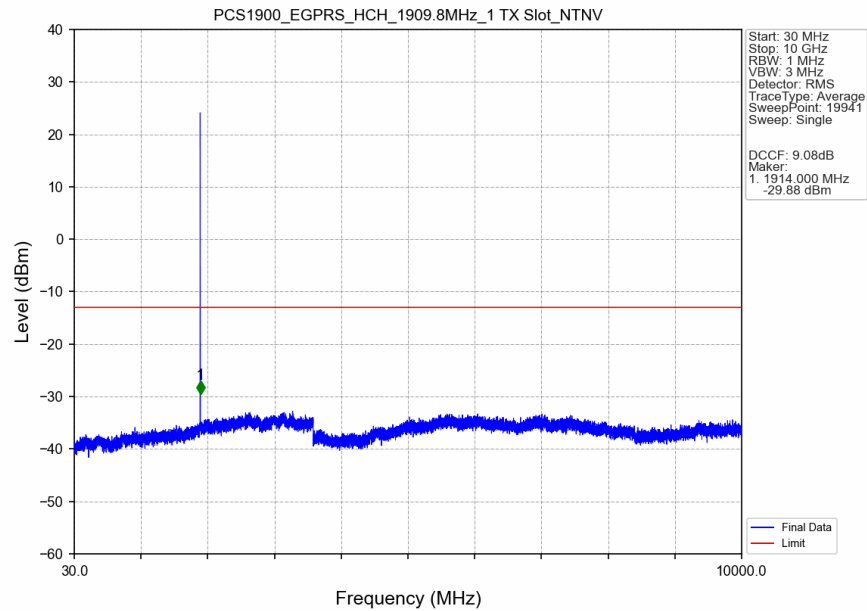
PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



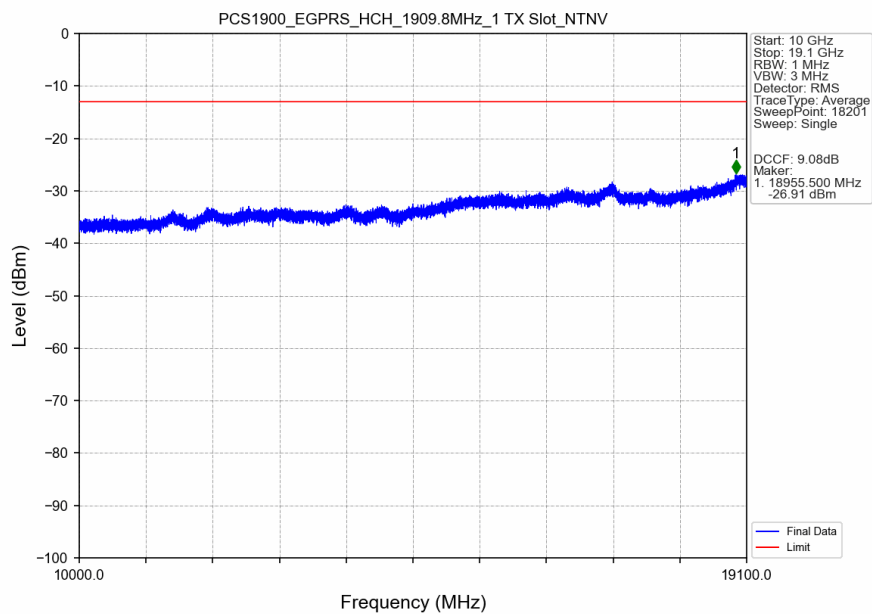
PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



- End of the Appendix -