

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	GSM	GSM	1850.2	N/A	N/A	N/A	N/A	Pass
			1880	N/A	N/A	N/A	N/A	Pass
			1909.8	N/A	N/A	N/A	N/A	Pass
	GPRS	1 TX Slot	1850.2	31.14	1.00	32.14	<=33.01	Pass
		2 TX Slots	1850.2	31.00	1.00	32.00	<=33.01	Pass
		3 TX Slots	1850.2	30.80	1.00	31.80	<=33.01	Pass
		4 TX Slots	1850.2	30.57	1.00	31.57	<=33.01	Pass
		1 TX Slot	1880	31.49	1.00	32.49	<=33.01	Pass
		2 TX Slots	1880	31.34	1.00	32.34	<=33.01	Pass
		3 TX Slots	1880	31.13	1.00	32.13	<=33.01	Pass
		4 TX Slots	1880	30.88	1.00	31.88	<=33.01	Pass
		1 TX Slot	1909.8	31.60	1.00	32.60	<=33.01	Pass
		2 TX Slots	1909.8	31.44	1.00	32.44	<=33.01	Pass
		3 TX Slots	1909.8	31.21	1.00	32.21	<=33.01	Pass
		4 TX Slots	1909.8	30.97	1.00	31.97	<=33.01	Pass
	EGPRS	1 TX Slot	1850.2	26.12	1.00	27.12	<=33.01	Pass
		2 TX Slots	1850.2	25.98	1.00	26.98	<=33.01	Pass
		3 TX Slots	1850.2	25.81	1.00	26.81	<=33.01	Pass
		4 TX Slots	1850.2	25.58	1.00	26.58	<=33.01	Pass
		1 TX Slot	1880	26.09	1.00	27.09	<=33.01	Pass
		2 TX Slots	1880	26.21	1.00	27.21	<=33.01	Pass
		3 TX Slots	1880	25.78	1.00	26.78	<=33.01	Pass
		4 TX Slots	1880	25.50	1.00	26.50	<=33.01	Pass
		1 TX Slot	1909.8	26.18	1.00	27.18	<=33.01	Pass
		2 TX Slots	1909.8	26.17	1.00	27.17	<=33.01	Pass
		3 TX Slots	1909.8	25.92	1.00	26.92	<=33.01	Pass
		4 TX Slots	1909.8	25.85	1.00	26.85	<=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	4.488	0.0024	-2.5 to 2.5	Pass
			NV	5.069	0.0027	-2.5 to 2.5	Pass
			HV	3.325	0.0018	-2.5 to 2.5	Pass
		-30	NV	4.036	0.0022	-2.5 to 2.5	Pass
		-20	NV	3.422	0.0018	-2.5 to 2.5	Pass
		-10	NV	0.613	0.0003	-2.5 to 2.5	Pass
		0	NV	4.585	0.0025	-2.5 to 2.5	Pass
		10	NV	3.681	0.0020	-2.5 to 2.5	Pass
		30	NV	-0.129	-0.0001	-2.5 to 2.5	Pass
		40	NV	3.229	0.0017	-2.5 to 2.5	Pass
		50	NV	1.808	0.0010	-2.5 to 2.5	Pass
	1880	20	LV	2.002	0.0011	-2.5 to 2.5	Pass
			NV	3.196	0.0017	-2.5 to 2.5	Pass
			HV	2.486	0.0013	-2.5 to 2.5	Pass
		-30	NV	4.714	0.0025	-2.5 to 2.5	Pass
		-20	NV	5.327	0.0028	-2.5 to 2.5	Pass
		-10	NV	4.681	0.0025	-2.5 to 2.5	Pass
		0	NV	5.553	0.0030	-2.5 to 2.5	Pass
		10	NV	4.972	0.0026	-2.5 to 2.5	Pass
		30	NV	2.873	0.0015	-2.5 to 2.5	Pass
		40	NV	6.005	0.0032	-2.5 to 2.5	Pass
		50	NV	3.939	0.0021	-2.5 to 2.5	Pass
	1909.8	20	LV	10.816	0.0057	-2.5 to 2.5	Pass
			NV	9.621	0.0050	-2.5 to 2.5	Pass
			HV	10.428	0.0055	-2.5 to 2.5	Pass
		-30	NV	9.524	0.0050	-2.5 to 2.5	Pass
		-20	NV	10.945	0.0057	-2.5 to 2.5	Pass
		-10	NV	6.231	0.0033	-2.5 to 2.5	Pass
		0	NV	7.587	0.0040	-2.5 to 2.5	Pass
		10	NV	8.491	0.0044	-2.5 to 2.5	Pass
		30	NV	8.943	0.0047	-2.5 to 2.5	Pass
		40	NV	7.167	0.0038	-2.5 to 2.5	Pass
		50	NV	6.941	0.0036	-2.5 to 2.5	Pass
EGPRS	1850.2	20	LV	7.458	0.0040	-2.5 to 2.5	Pass
			NV	8.620	0.0047	-2.5 to 2.5	Pass
			HV	5.198	0.0028	-2.5 to 2.5	Pass
		-30	NV	5.876	0.0032	-2.5 to 2.5	Pass
		-20	NV	6.005	0.0032	-2.5 to 2.5	Pass
		-10	NV	9.137	0.0049	-2.5 to 2.5	Pass
		0	NV	6.941	0.0038	-2.5 to 2.5	Pass
		10	NV	6.651	0.0036	-2.5 to 2.5	Pass
		30	NV	9.234	0.0050	-2.5 to 2.5	Pass
		40	NV	8.071	0.0044	-2.5 to 2.5	Pass
		50	NV	8.007	0.0043	-2.5 to 2.5	Pass
	1880	20	LV	8.427	0.0045	-2.5 to 2.5	Pass
			NV	5.424	0.0029	-2.5 to 2.5	Pass

			HV	6.231	0.0033	-2.5 to 2.5	Pass
		-30	NV	7.942	0.0042	-2.5 to 2.5	Pass
		-20	NV	7.942	0.0042	-2.5 to 2.5	Pass
		-10	NV	10.202	0.0054	-2.5 to 2.5	Pass
		0	NV	8.685	0.0046	-2.5 to 2.5	Pass
		10	NV	9.137	0.0049	-2.5 to 2.5	Pass
		30	NV	7.232	0.0038	-2.5 to 2.5	Pass
		40	NV	9.944	0.0053	-2.5 to 2.5	Pass
		50	NV	7.749	0.0041	-2.5 to 2.5	Pass
	1909.8	20	LV	13.140	0.0069	-2.5 to 2.5	Pass
			NV	13.689	0.0072	-2.5 to 2.5	Pass
			HV	9.718	0.0051	-2.5 to 2.5	Pass
		-30	NV	13.043	0.0068	-2.5 to 2.5	Pass
		-20	NV	9.524	0.0050	-2.5 to 2.5	Pass
		-10	NV	6.263	0.0033	-2.5 to 2.5	Pass
		0	NV	10.687	0.0056	-2.5 to 2.5	Pass
		10	NV	9.169	0.0048	-2.5 to 2.5	Pass
		30	NV	8.685	0.0045	-2.5 to 2.5	Pass
		40	NV	12.043	0.0063	-2.5 to 2.5	Pass
		50	NV	9.718	0.0051	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 PCS1900_OBW

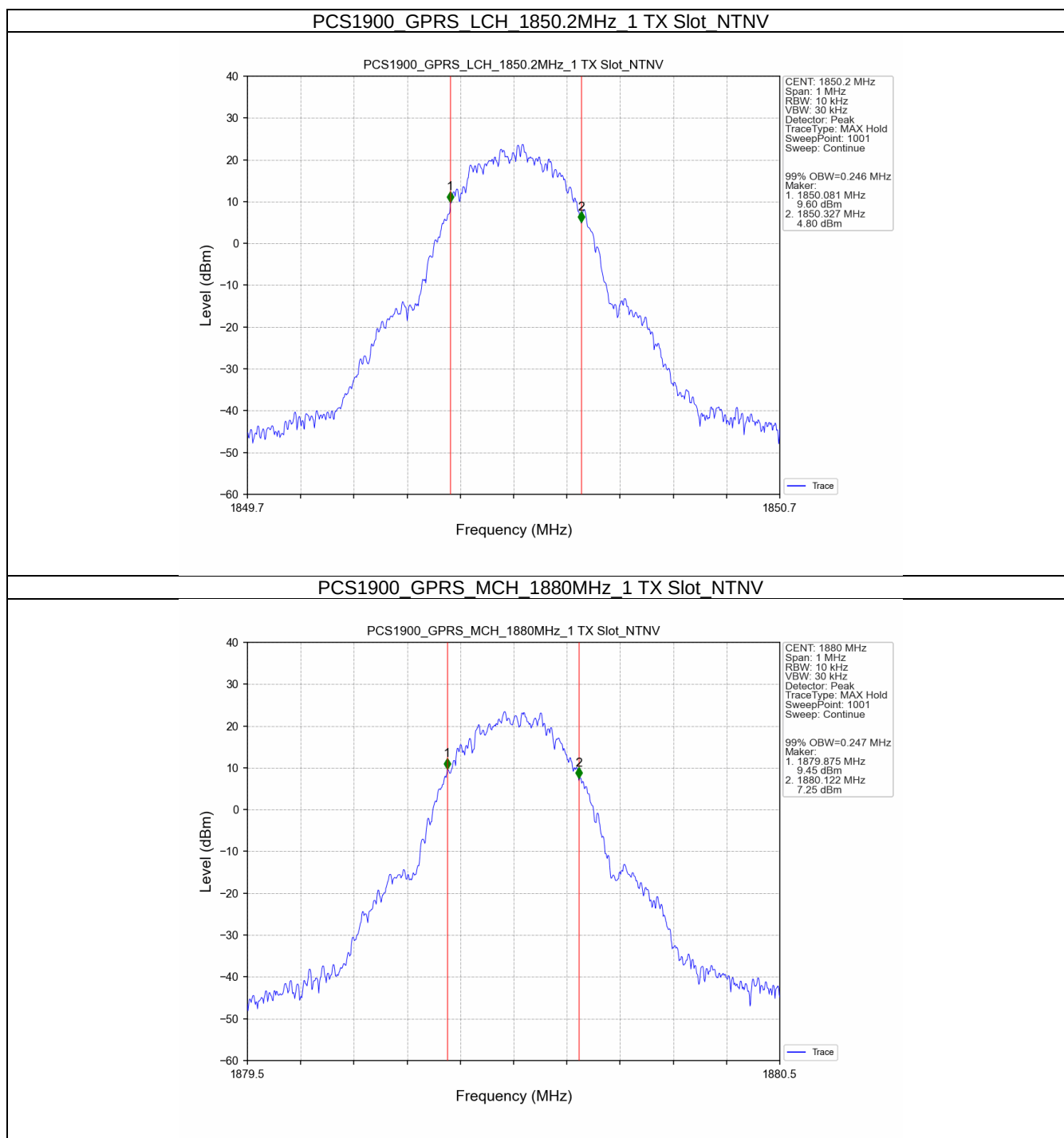
Band: PCS1900						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	0.246	/	Pass
			1880	0.247	/	Pass
			1909.8	0.248	/	Pass
	EGPRS	1 TX Slot	1850.2	0.243	/	Pass
			1880	0.251	/	Pass
			1909.8	0.244	/	Pass

3.1.2 PCS1900_XDB

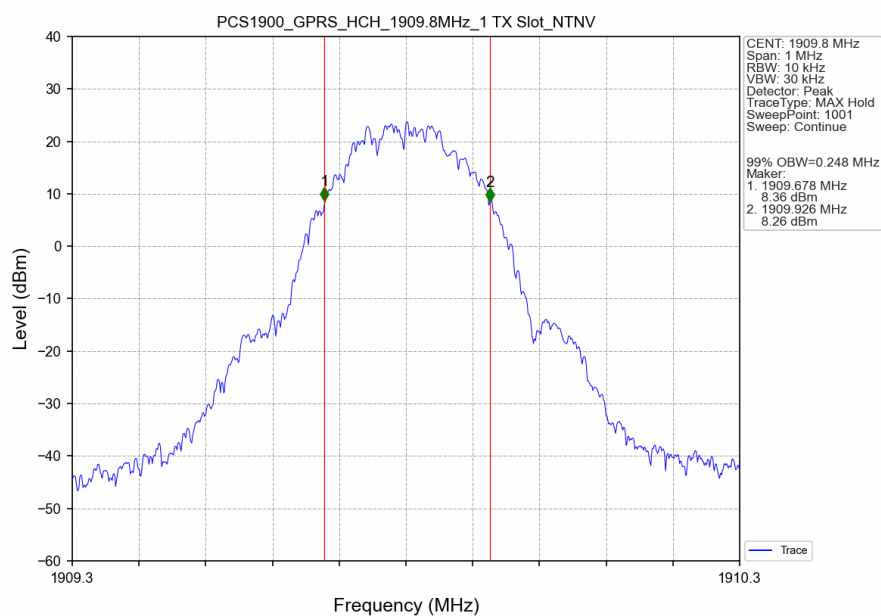
Band: PCS1900						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	0.312	/	Pass
			1880	0.323	/	Pass
			1909.8	0.319	/	Pass
	EGPRS	1 TX Slot	1850.2	0.306	/	Pass
			1880	0.322	/	Pass
			1909.8	0.321	/	Pass

3.2 Test Graph

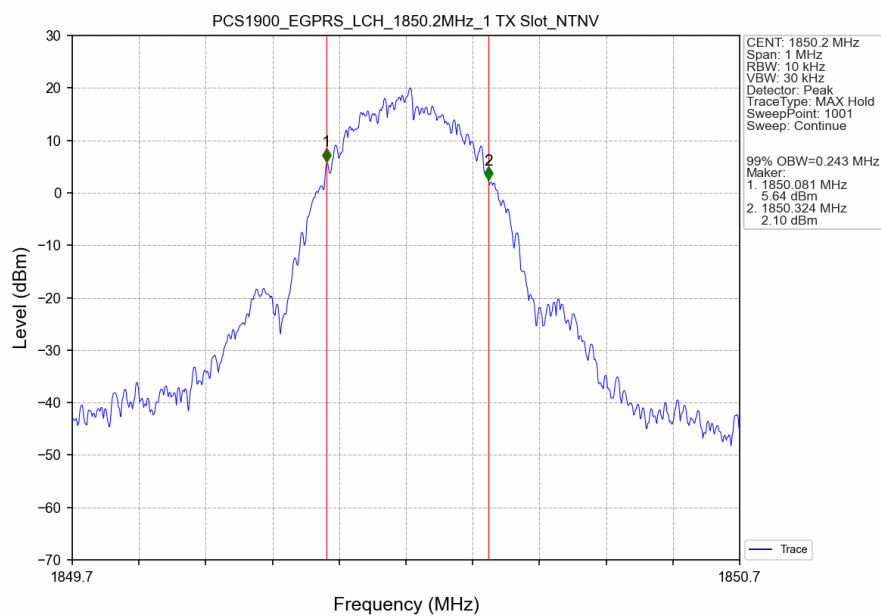
3.2.1 PCS1900_OBW



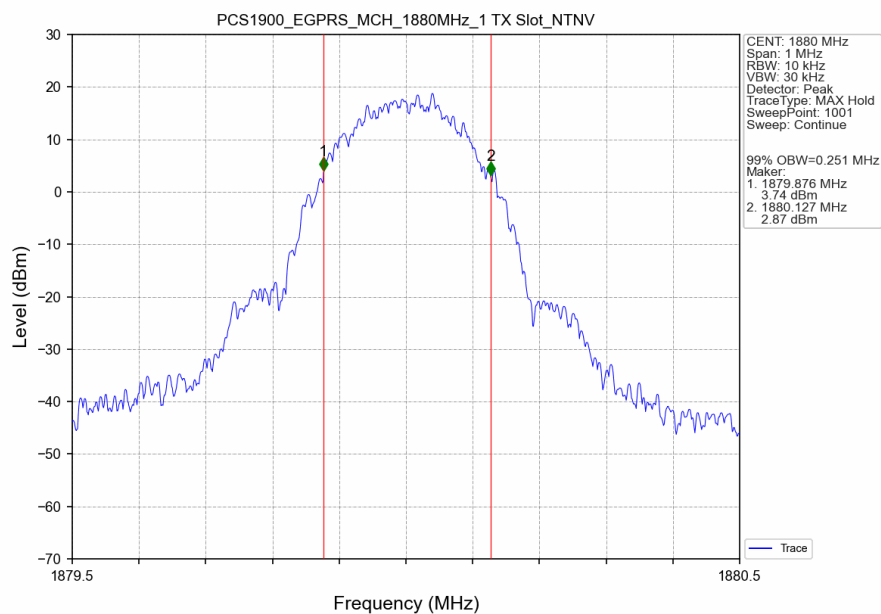
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



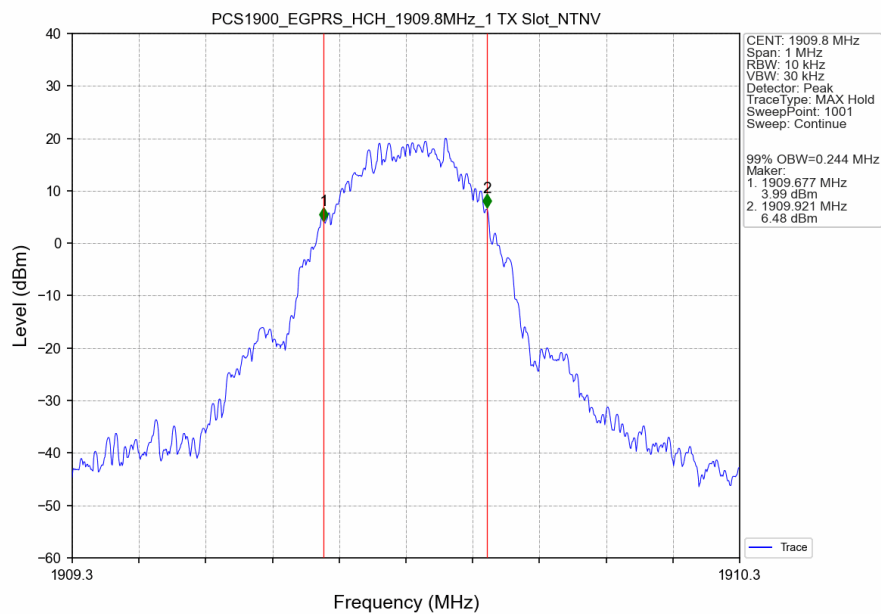
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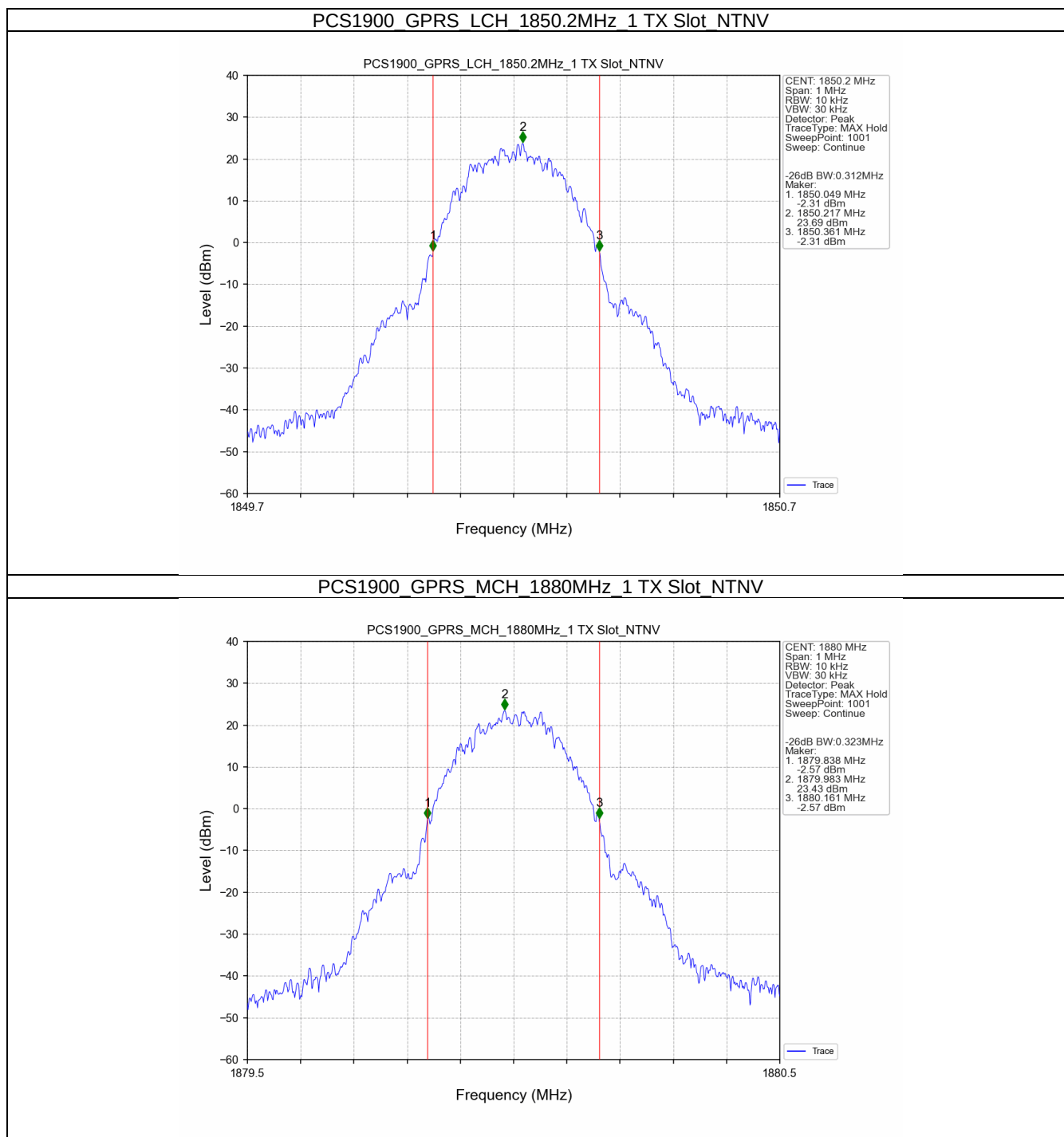
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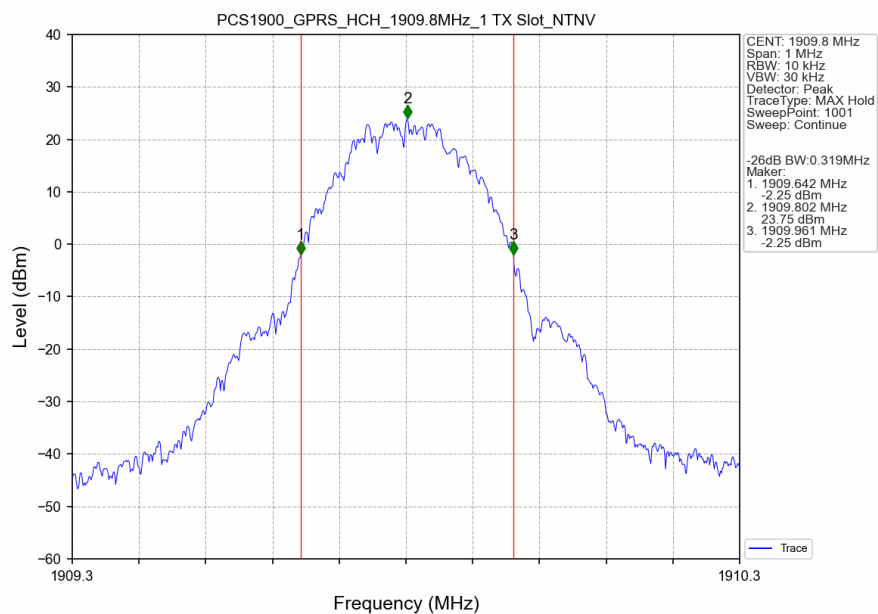
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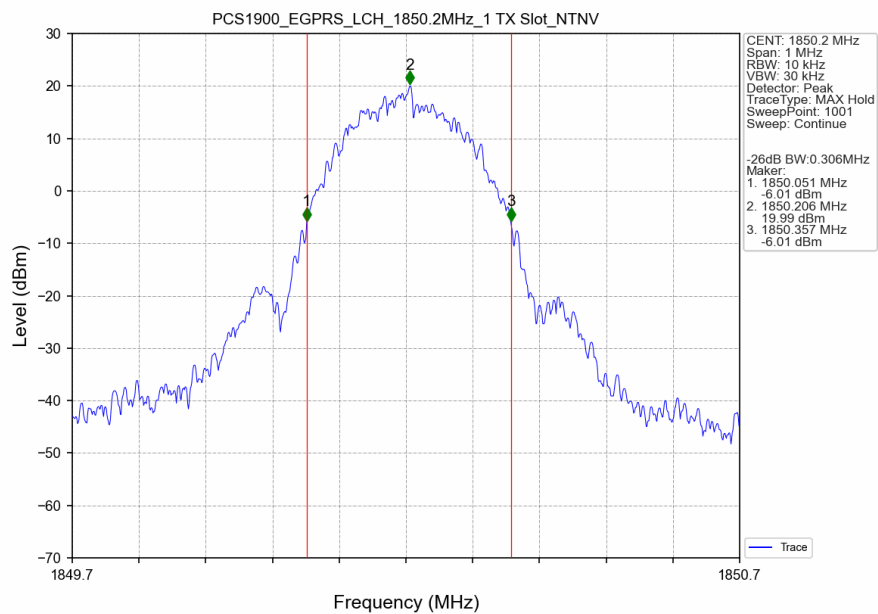
3.2.2 PCS1900_XDB



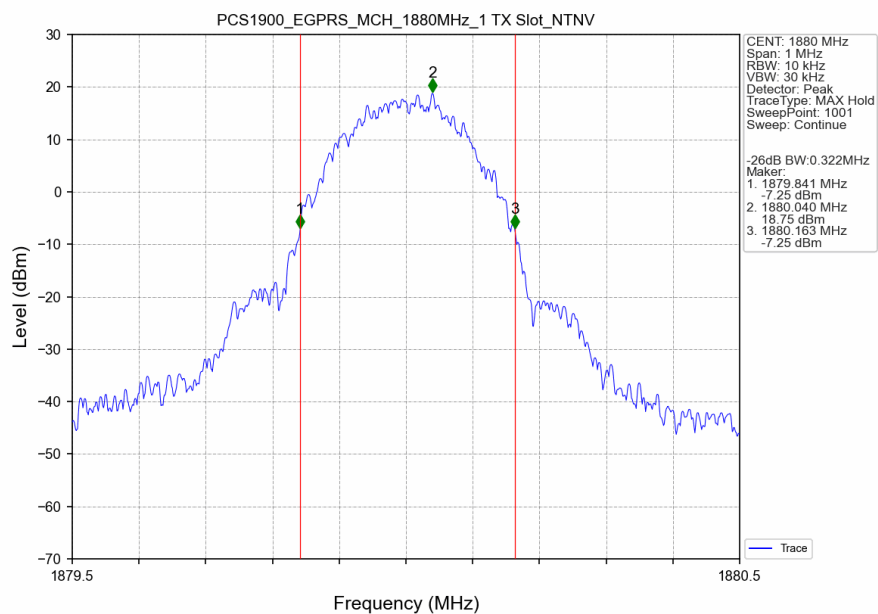
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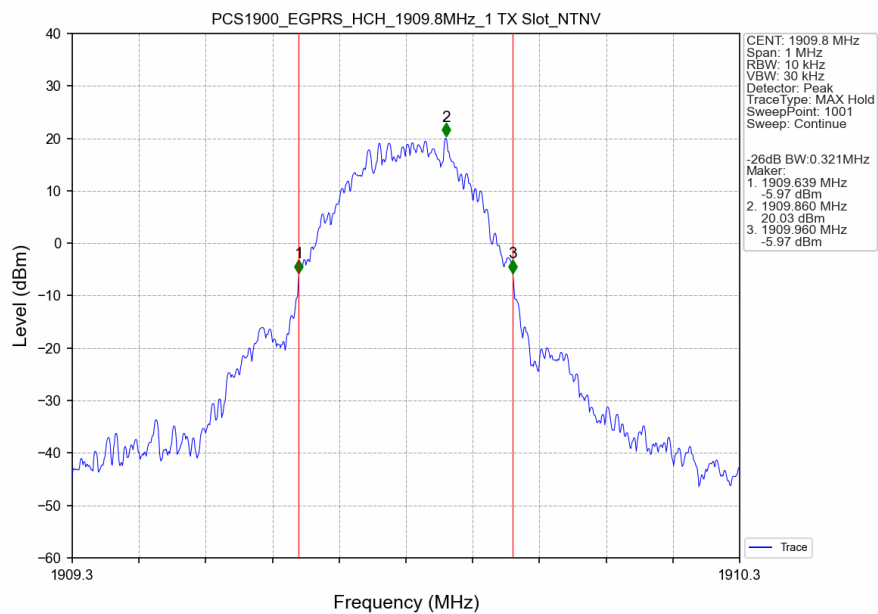
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



4. Peak-Average Ratio

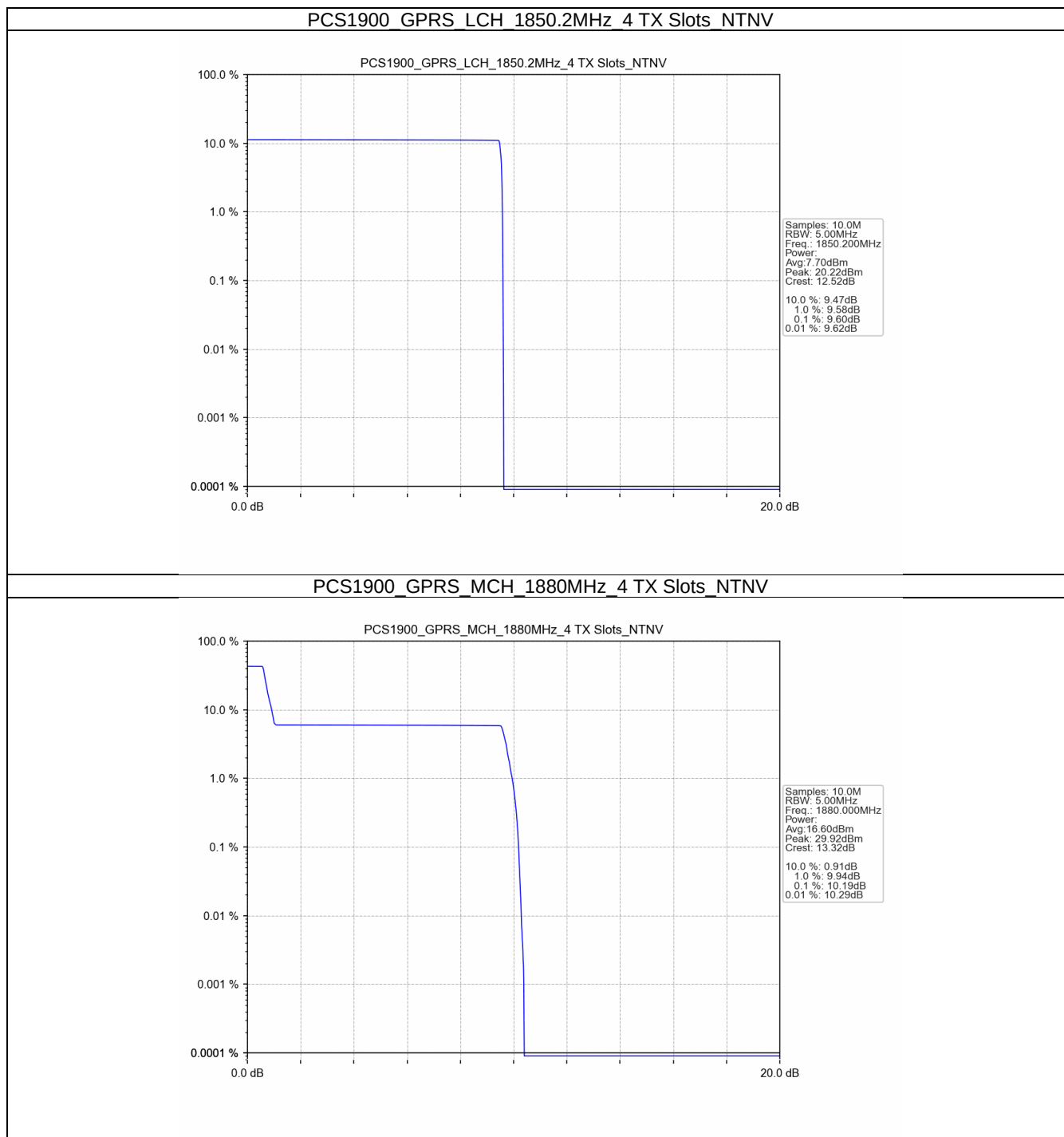
4.1 Test Result

4.1.1 PCS1900

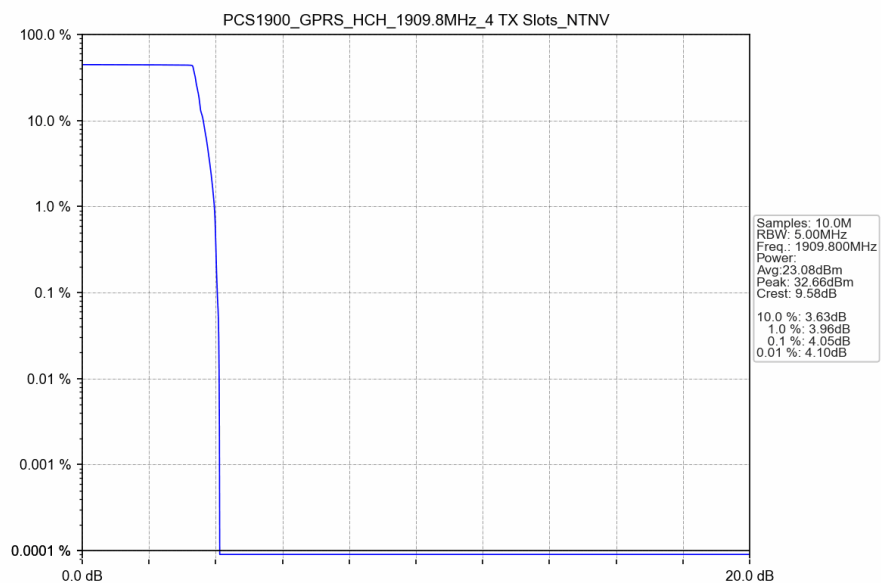
Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	1850.2	9.60	<=13	Pass
			1880	10.19	<=13	Pass
			1909.8	4.05	<=13	Pass
	EGPRS	4 TX Slots	1850.2	8.88	<=13	Pass
			1880	8.86	<=13	Pass
			1909.8	8.66	<=13	Pass

4.2 Test Graph

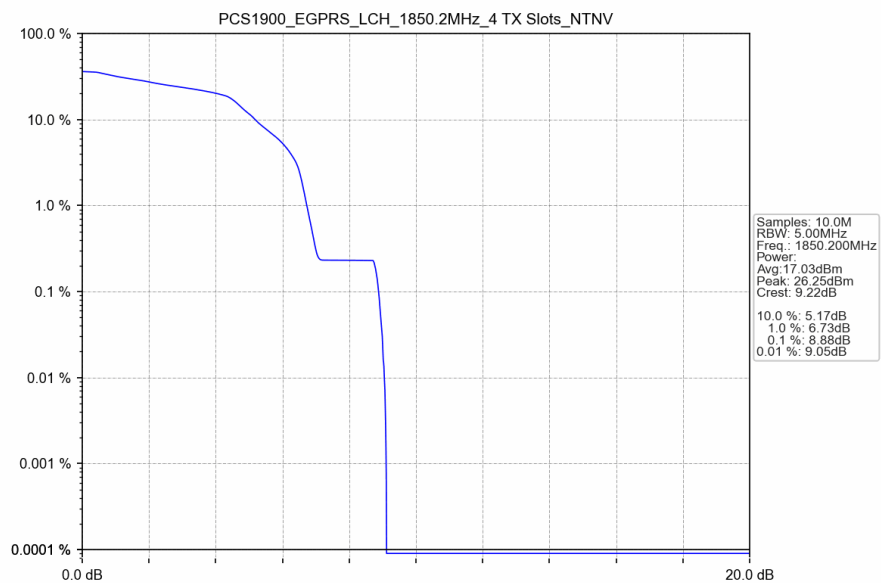
4.2.1 PCS1900



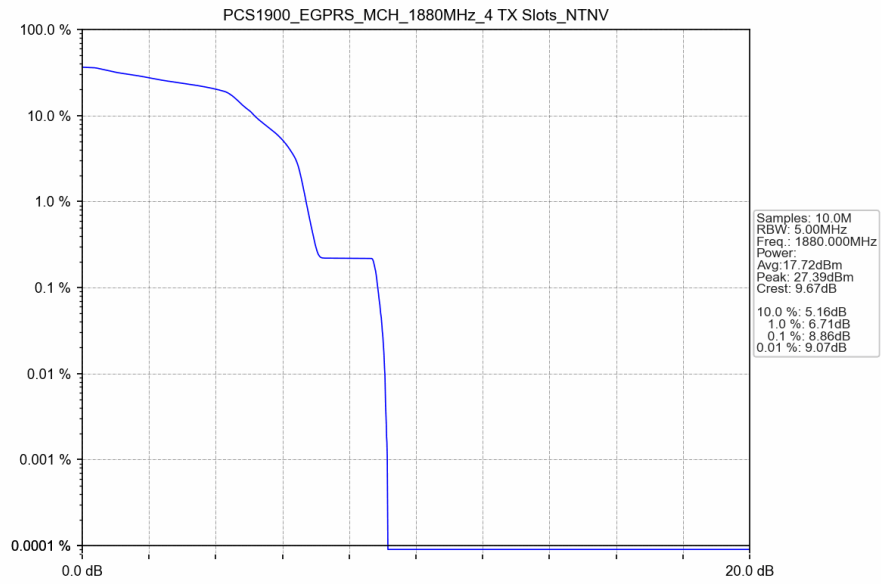
PCS1900_GPRS_HCH_1909.8MHz_4 TX Slots_NTNV



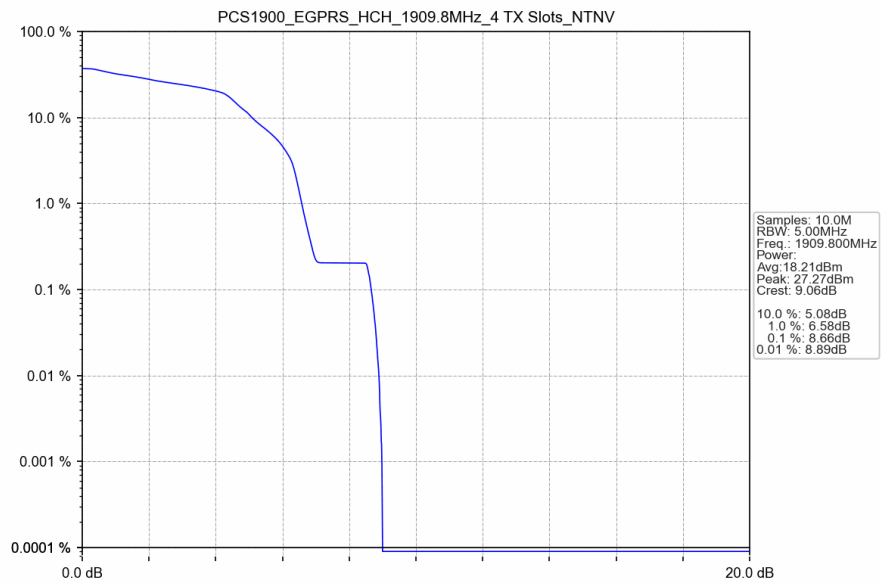
PCS1900_EGPRS_LCH_1850.2MHz_4 TX Slots_NTNV



PCS1900_EGPRS_MCH_1880MHz_4 TX Slots_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_4 TX Slots_NTNV





5. Spurious Emission

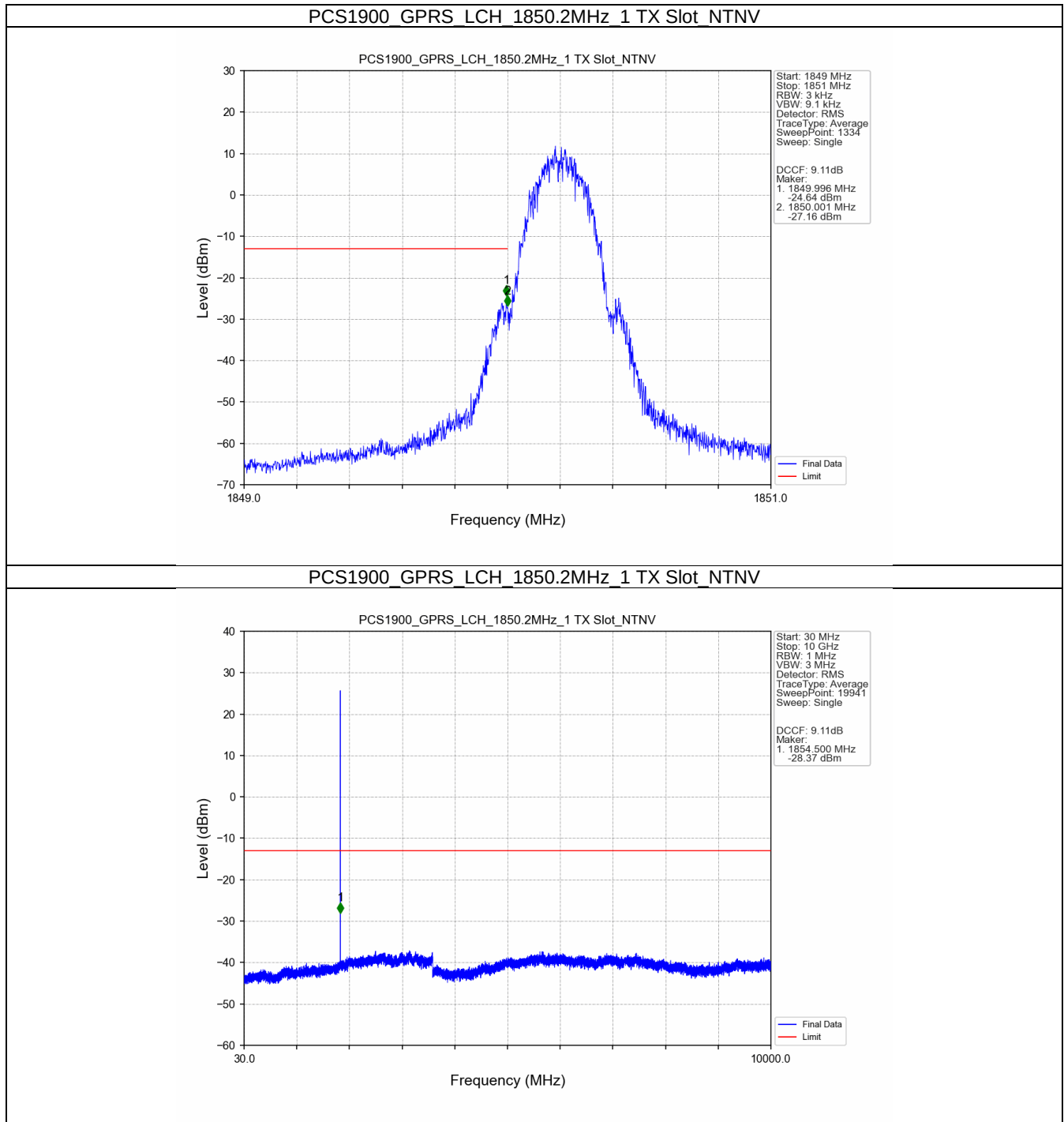
5.1 Test Result

5.1.1 PCS1900

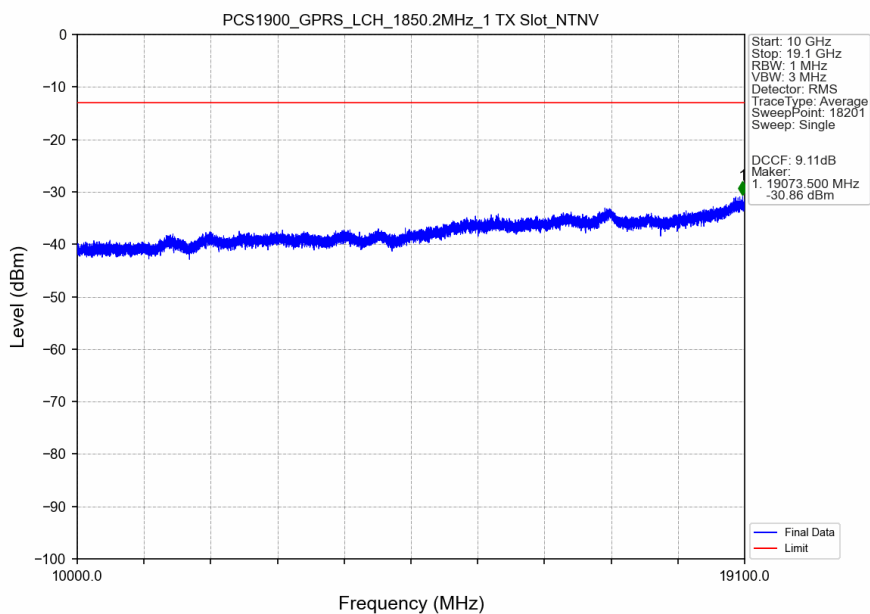
Band: PCS1900					
ENV	Mode		Frequency (MHz)	Spurious Emission	
	Network	Subset		Result	Limit
NTNV	GPRS	1 TX Slot	1850.2	Refer To Test Graph	Pass
			1880	Refer To Test Graph	Pass
			1909.8	Refer To Test Graph	Pass
	EGPRS	1 TX Slot	1850.2	Refer To Test Graph	Pass
			1880	Refer To Test Graph	Pass
			1909.8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

5.2 Test Graph

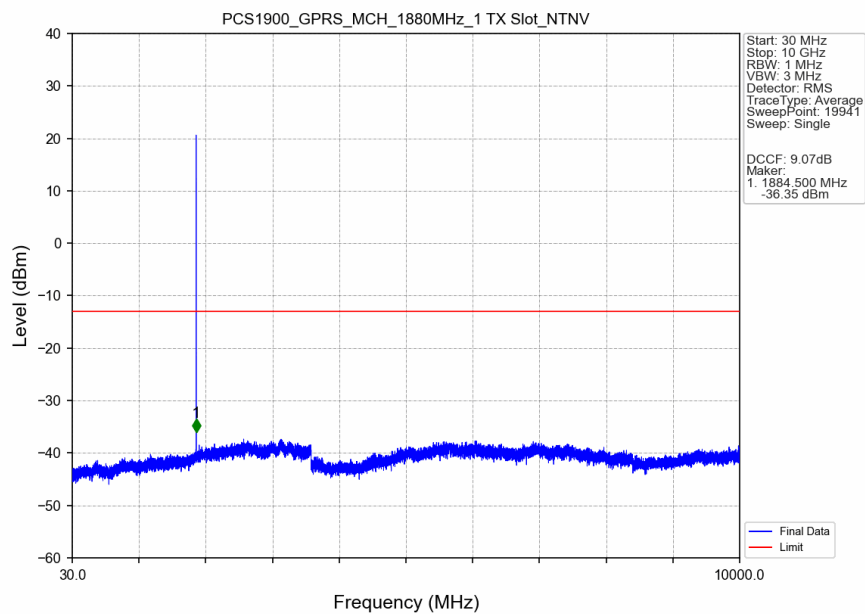
5.2.1 PCS1900



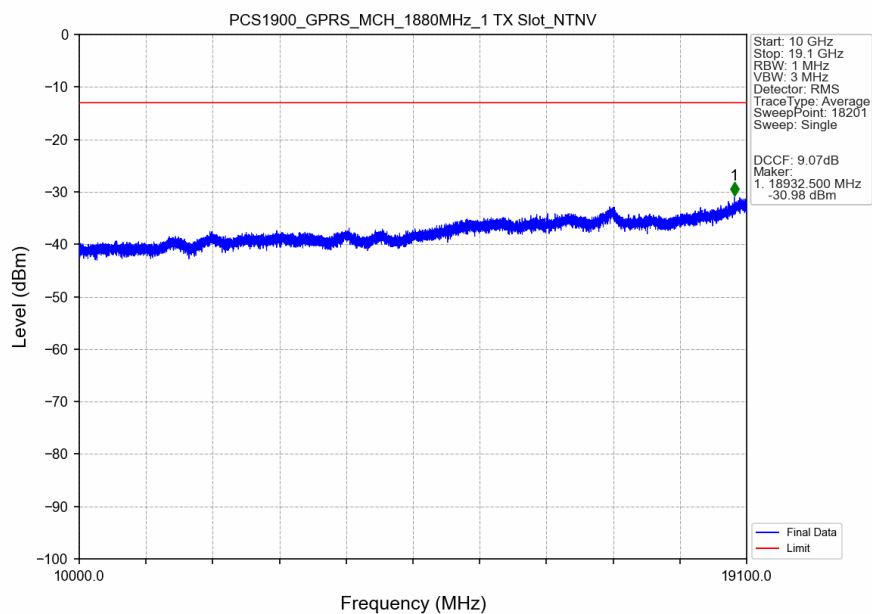
PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



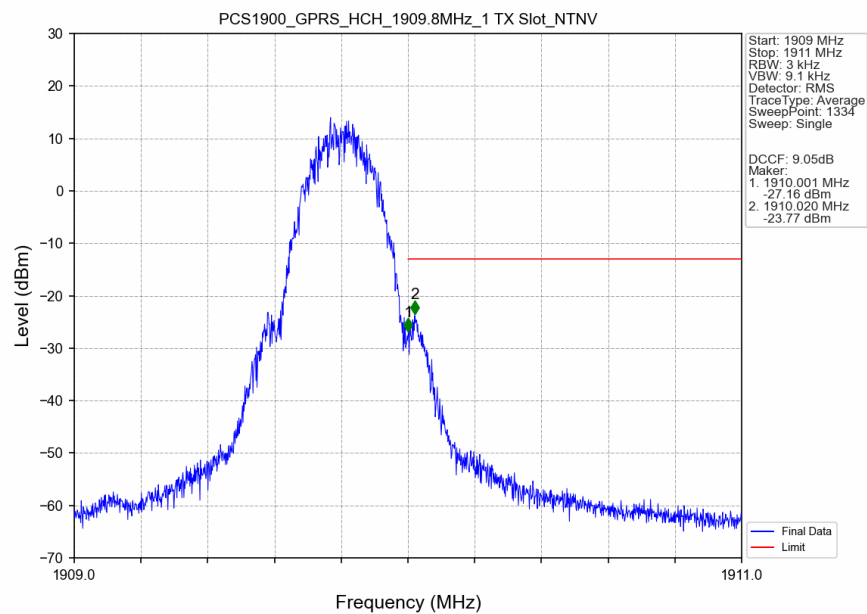
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



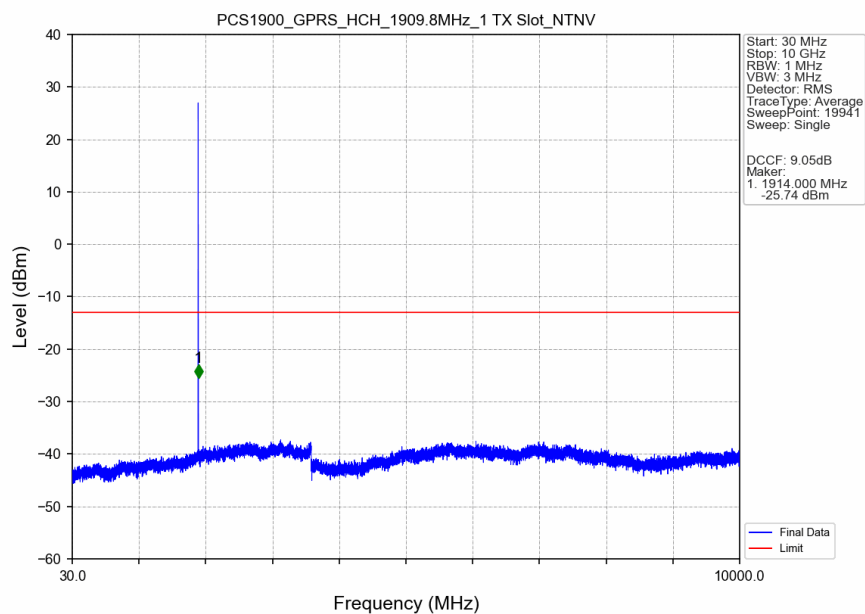
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



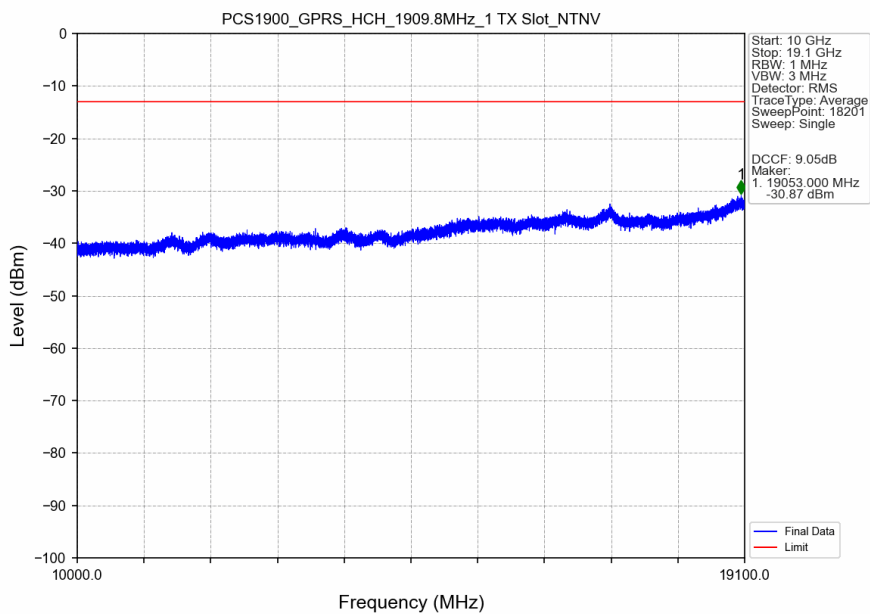
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



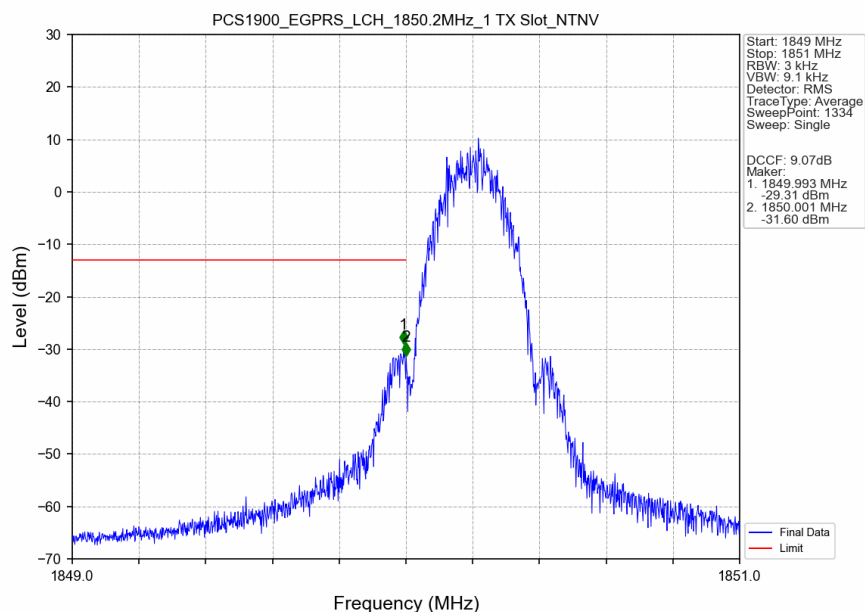
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



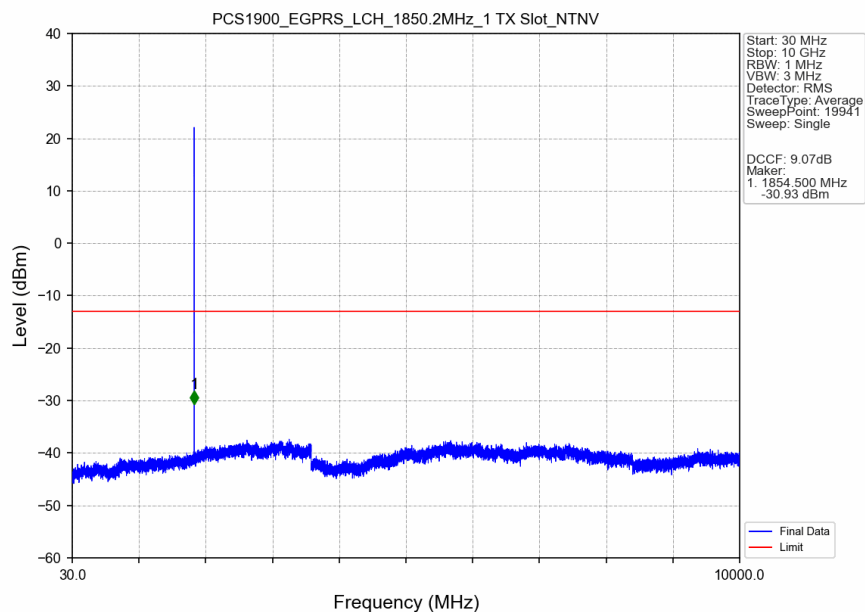
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



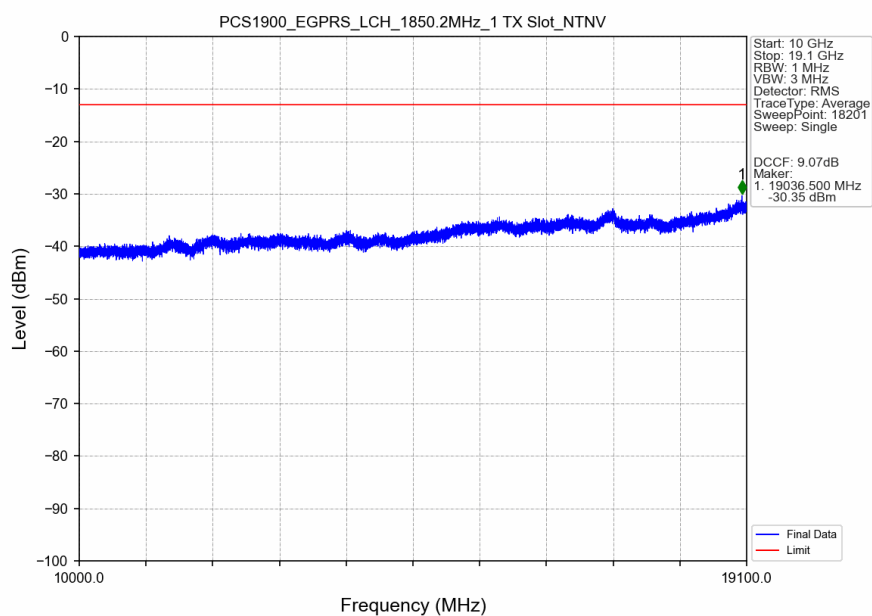
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



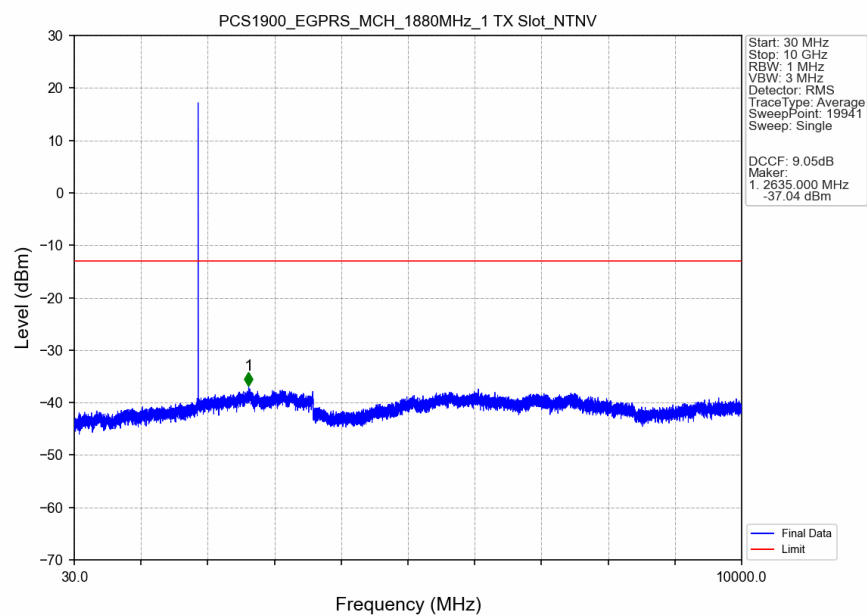
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



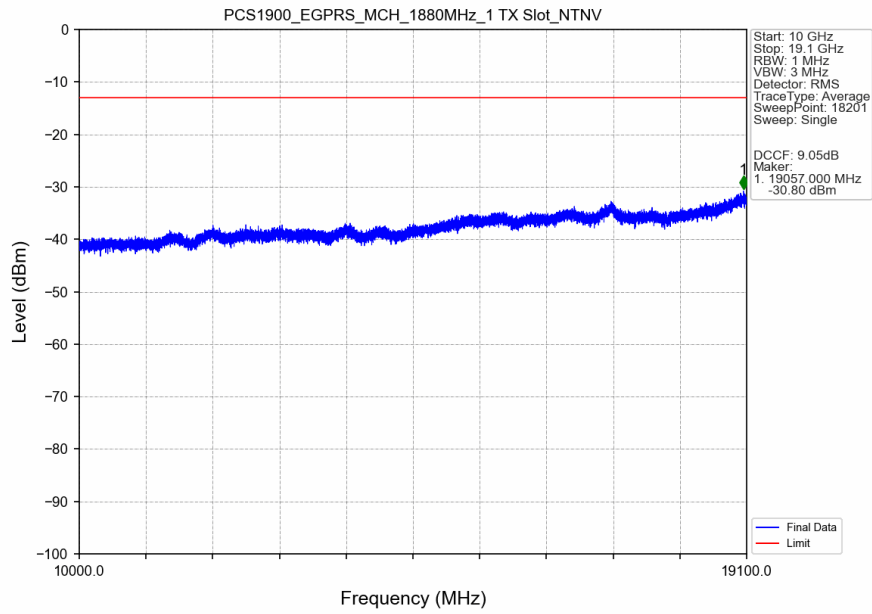
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



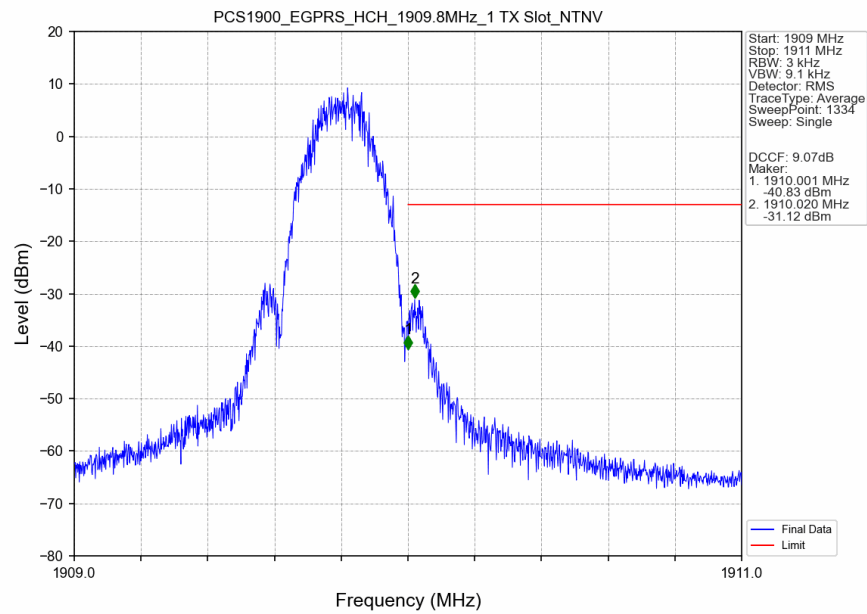
PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



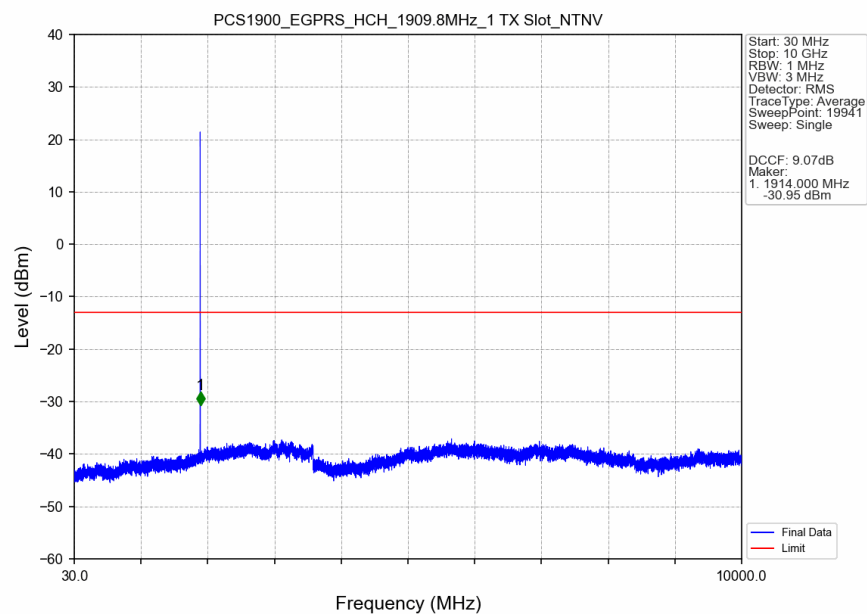
PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



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

