

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	31.31	-0.38	30.93	<=33.01	Pass
		2 TX Slots	1850.2	29.42	-0.38	29.04	<=33.01	Pass
		3 TX Slots	1850.2	27.59	-0.38	27.21	<=33.01	Pass
		4 TX Slots	1850.2	25.55	-0.38	25.17	<=33.01	Pass
		1 TX Slot	1880	31.17	-0.38	30.79	<=33.01	Pass
		2 TX Slots	1880	28.90	-0.38	28.52	<=33.01	Pass
		3 TX Slots	1880	27.10	-0.38	26.72	<=33.01	Pass
		4 TX Slots	1880	25.03	-0.38	24.65	<=33.01	Pass
		1 TX Slot	1909.8	31.03	-0.38	30.65	<=33.01	Pass
		2 TX Slots	1909.8	28.34	-0.38	27.96	<=33.01	Pass
		3 TX Slots	1909.8	26.60	-0.38	26.22	<=33.01	Pass
		4 TX Slots	1909.8	24.48	-0.38	24.10	<=33.01	Pass
	EGPRS	1 TX Slot	1850.2	26.45	-0.38	26.07	<=33.01	Pass
		2 TX Slots	1850.2	25.13	-0.38	24.75	<=33.01	Pass
		3 TX Slots	1850.2	23.13	-0.38	22.75	<=33.01	Pass
		4 TX Slots	1850.2	19.97	-0.38	19.59	<=33.01	Pass
		1 TX Slot	1880	27.62	-0.38	27.24	<=33.01	Pass
		2 TX Slots	1880	24.97	-0.38	24.59	<=33.01	Pass
		3 TX Slots	1880	22.80	-0.38	22.42	<=33.01	Pass
		4 TX Slots	1880	19.67	-0.38	19.29	<=33.01	Pass
		1 TX Slot	1909.8	25.79	-0.38	25.41	<=33.01	Pass
		2 TX Slots	1909.8	24.48	-0.38	24.10	<=33.01	Pass
		3 TX Slots	1909.8	22.28	-0.38	21.90	<=33.01	Pass
		4 TX Slots	1909.8	19.19	-0.38	18.81	<=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	-0.807	-0.0004	-2.5 to 2.5	Pass
			NV	2.292	0.0012	-2.5 to 2.5	Pass
			HV	-5.553	-0.0030	-2.5 to 2.5	Pass
		-30	NV	-3.487	-0.0019	-2.5 to 2.5	Pass
		-20	NV	3.390	0.0018	-2.5 to 2.5	Pass
		-10	NV	-4.811	-0.0026	-2.5 to 2.5	Pass
		0	NV	-3.842	-0.0021	-2.5 to 2.5	Pass
		10	NV	-14.012	-0.0076	-2.5 to 2.5	Pass
		30	NV	10.719	0.0058	-2.5 to 2.5	Pass
		40	NV	2.970	0.0016	-2.5 to 2.5	Pass
		50	NV	-6.393	-0.0035	-2.5 to 2.5	Pass
	1880	20	LV	-4.100	-0.0022	-2.5 to 2.5	Pass
			NV	9.460	0.0050	-2.5 to 2.5	Pass
			HV	-0.517	-0.0003	-2.5 to 2.5	Pass
		-30	NV	-12.107	-0.0064	-2.5 to 2.5	Pass
		-20	NV	-7.167	-0.0038	-2.5 to 2.5	Pass
		-10	NV	1.743	0.0009	-2.5 to 2.5	Pass
		0	NV	-7.845	-0.0042	-2.5 to 2.5	Pass
		10	NV	-12.624	-0.0067	-2.5 to 2.5	Pass
		30	NV	-3.132	-0.0017	-2.5 to 2.5	Pass
		40	NV	-3.777	-0.0020	-2.5 to 2.5	Pass
		50	NV	-7.523	-0.0040	-2.5 to 2.5	Pass
	1909.8	20	LV	0.936	0.0005	-2.5 to 2.5	Pass
			NV	8.782	0.0046	-2.5 to 2.5	Pass
			HV	0.355	0.0002	-2.5 to 2.5	Pass
		-30	NV	-0.743	-0.0004	-2.5 to 2.5	Pass
		-20	NV	0.387	0.0002	-2.5 to 2.5	Pass
		-10	NV	7.232	0.0038	-2.5 to 2.5	Pass
		0	NV	6.845	0.0036	-2.5 to 2.5	Pass
		10	NV	4.875	0.0026	-2.5 to 2.5	Pass
		30	NV	4.681	0.0025	-2.5 to 2.5	Pass
		40	NV	4.165	0.0022	-2.5 to 2.5	Pass
		50	NV	-0.549	-0.0003	-2.5 to 2.5	Pass
EGPRS	1850.2	20	LV	-2.034	-0.0011	-2.5 to 2.5	Pass
			NV	8.879	0.0048	-2.5 to 2.5	Pass
			HV	0.032	0.0000	-2.5 to 2.5	Pass
		-30	NV	-11.365	-0.0061	-2.5 to 2.5	Pass
		-20	NV	-7.523	-0.0041	-2.5 to 2.5	Pass
		-10	NV	-20.437	-0.0110	-2.5 to 2.5	Pass
		0	NV	-16.208	-0.0088	-2.5 to 2.5	Pass
		10	NV	3.390	0.0018	-2.5 to 2.5	Pass
		30	NV	0.969	0.0005	-2.5 to 2.5	Pass
		40	NV	4.423	0.0024	-2.5 to 2.5	Pass

	1880	50	NV	10.299	0.0056	-2.5 to 2.5	Pass
		20	LV	-12.688	-0.0067	-2.5 to 2.5	Pass
			NV	-8.846	-0.0047	-2.5 to 2.5	Pass
			HV	-6.231	-0.0033	-2.5 to 2.5	Pass
		-30	NV	-3.325	-0.0018	-2.5 to 2.5	Pass
		-20	NV	9.298	0.0049	-2.5 to 2.5	Pass
		-10	NV	2.938	0.0016	-2.5 to 2.5	Pass
		0	NV	-1.291	-0.0007	-2.5 to 2.5	Pass
		10	NV	7.135	0.0038	-2.5 to 2.5	Pass
		30	NV	0.000	0.0000	-2.5 to 2.5	Pass
		40	NV	-7.652	-0.0041	-2.5 to 2.5	Pass
		50	NV	-0.387	-0.0002	-2.5 to 2.5	Pass
	1909.8	20	LV	-11.978	-0.0063	-2.5 to 2.5	Pass
			NV	2.034	0.0011	-2.5 to 2.5	Pass
			HV	2.099	0.0011	-2.5 to 2.5	Pass
		-30	NV	1.776	0.0009	-2.5 to 2.5	Pass
		-20	NV	8.459	0.0044	-2.5 to 2.5	Pass
		-10	NV	2.454	0.0013	-2.5 to 2.5	Pass
		0	NV	-1.905	-0.0010	-2.5 to 2.5	Pass
		10	NV	5.844	0.0031	-2.5 to 2.5	Pass
		30	NV	1.291	0.0007	-2.5 to 2.5	Pass
		40	NV	1.647	0.0009	-2.5 to 2.5	Pass
		50	NV	-5.553	-0.0029	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 PCS1900_OBW

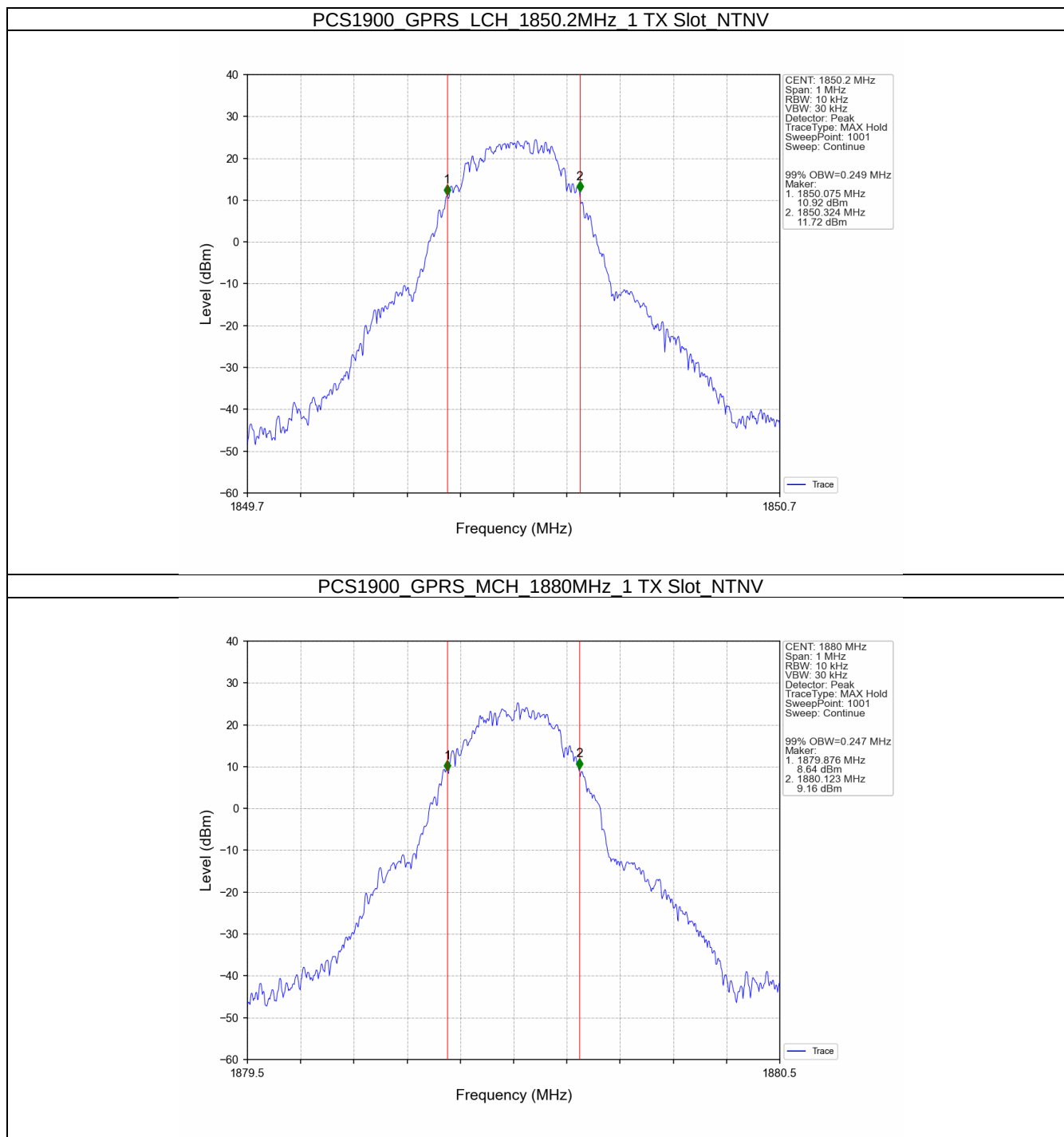
Band: PCS1900						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	0.249	/	Pass
			1880	0.247	/	Pass
			1909.8	0.248	/	Pass
	EGPRS	1 TX Slot	1850.2	0.232	/	Pass
			1880	0.240	/	Pass
			1909.8	0.243	/	Pass

3.1.2 PCS1900_XDB

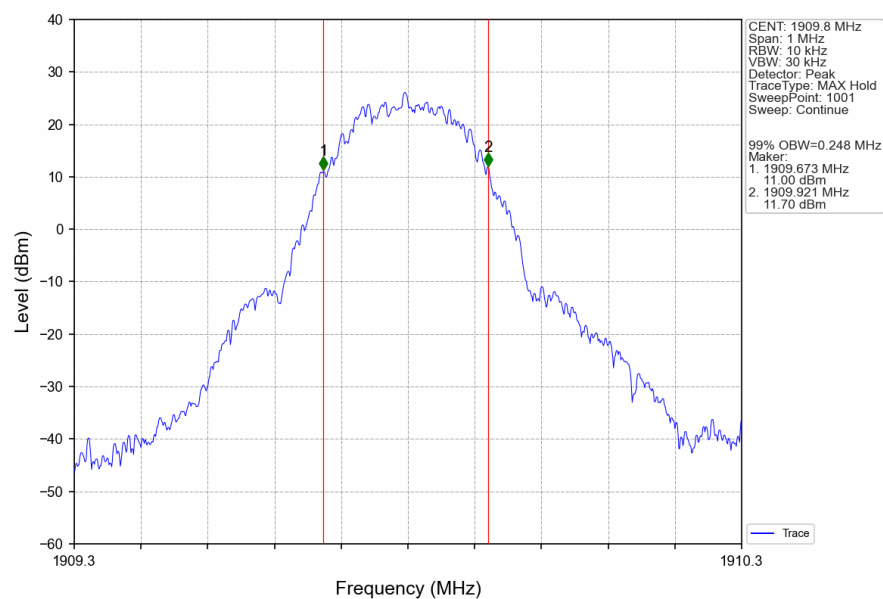
Band: PCS1900						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	0.322	/	Pass
			1880	0.323	/	Pass
			1909.8	0.319	/	Pass
	EGPRS	1 TX Slot	1850.2	0.296	/	Pass
			1880	0.329	/	Pass
			1909.8	0.328	/	Pass

3.2 Test Graph

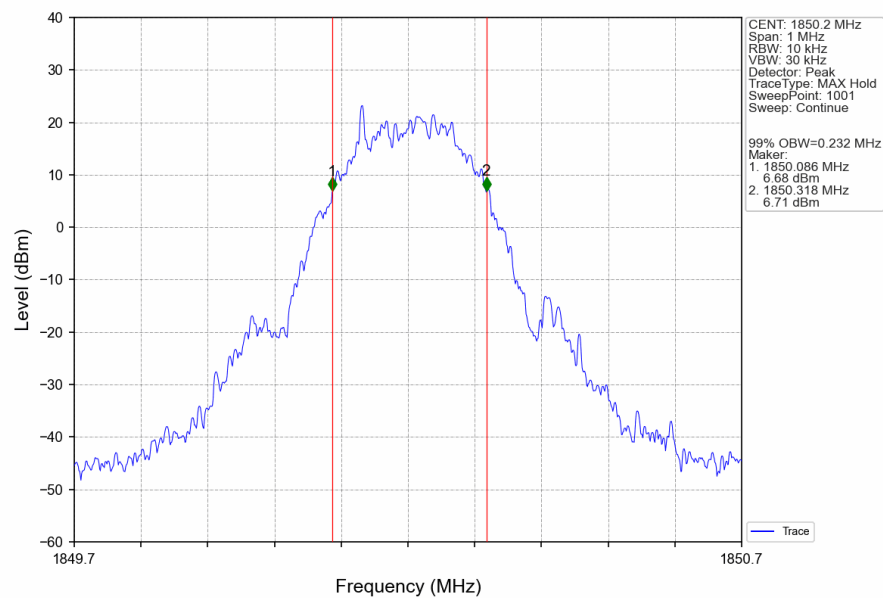
3.2.1 PCS1900_OBW



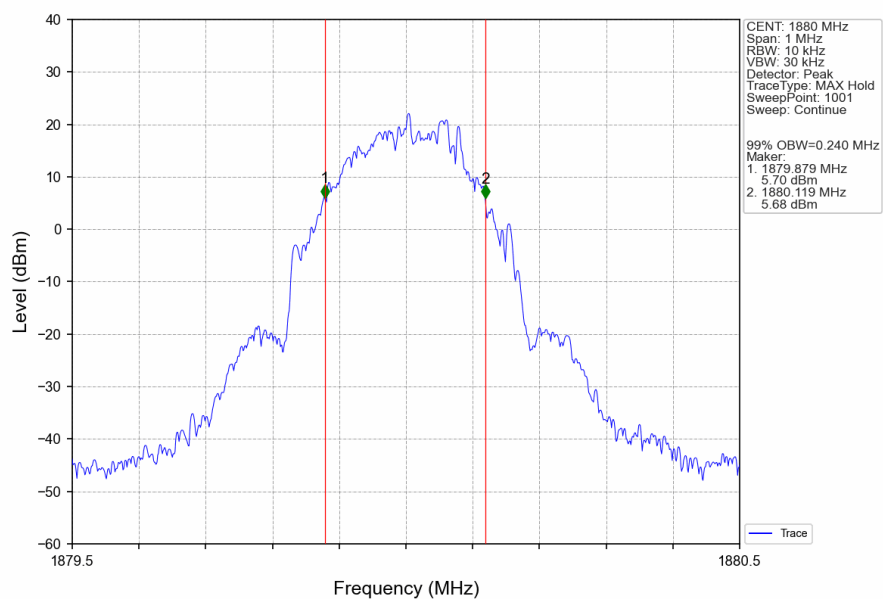
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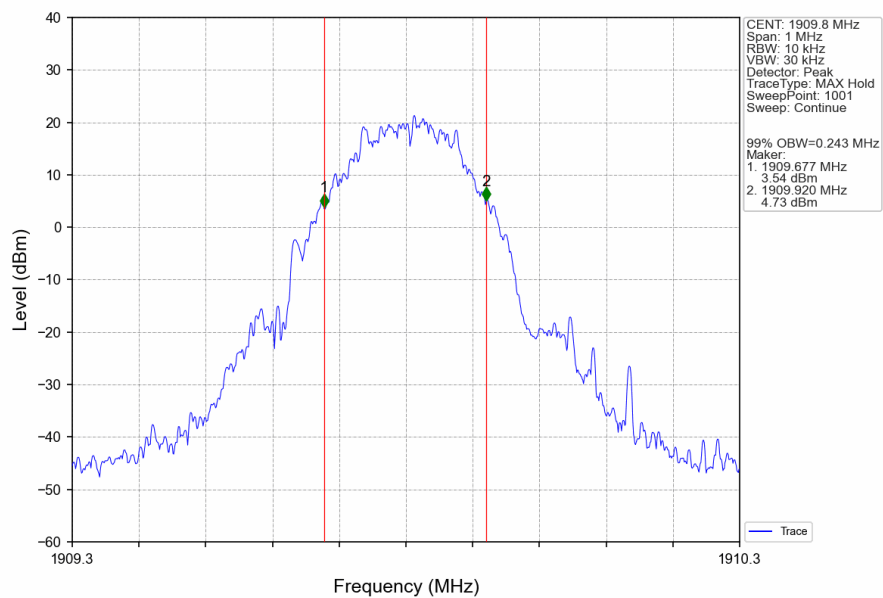
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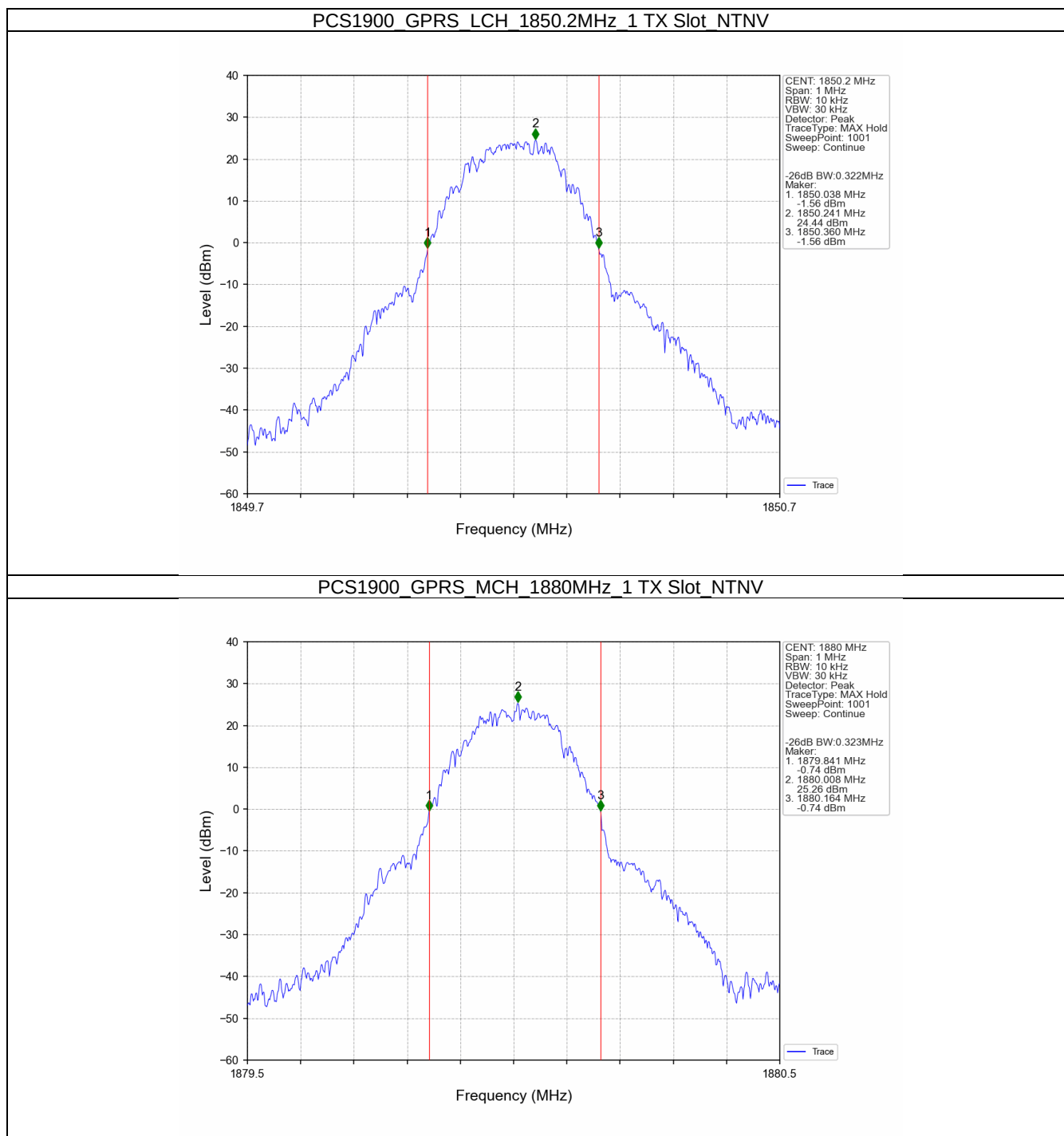
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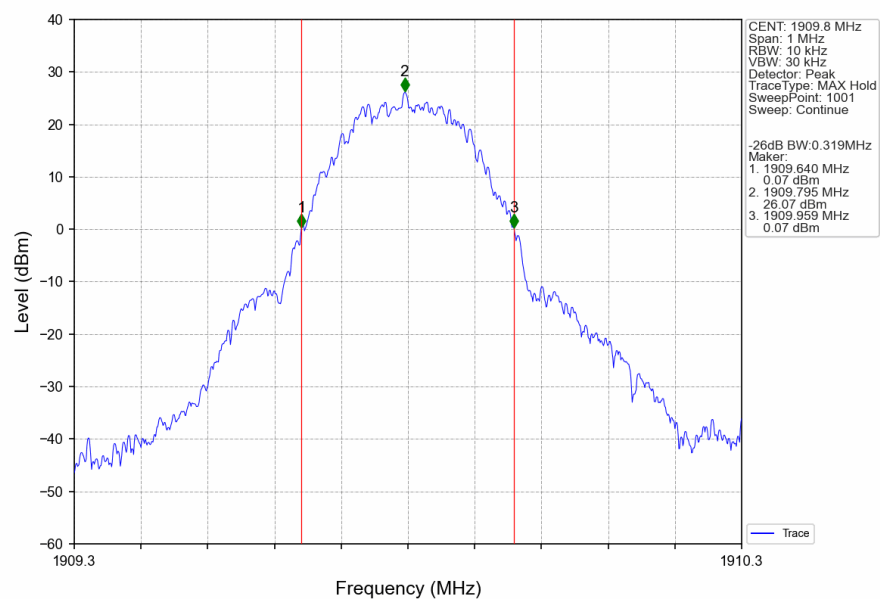
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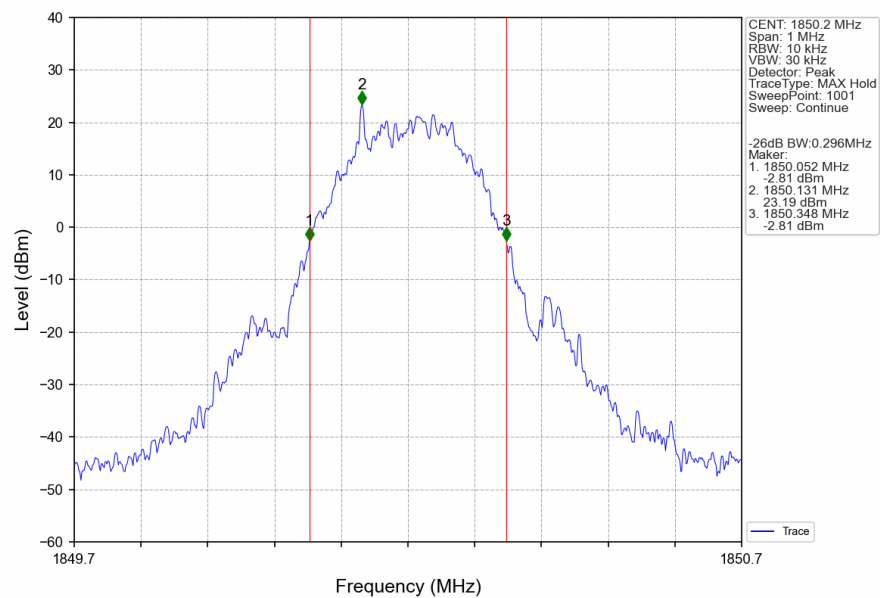
3.2.2 PCS1900_XDB



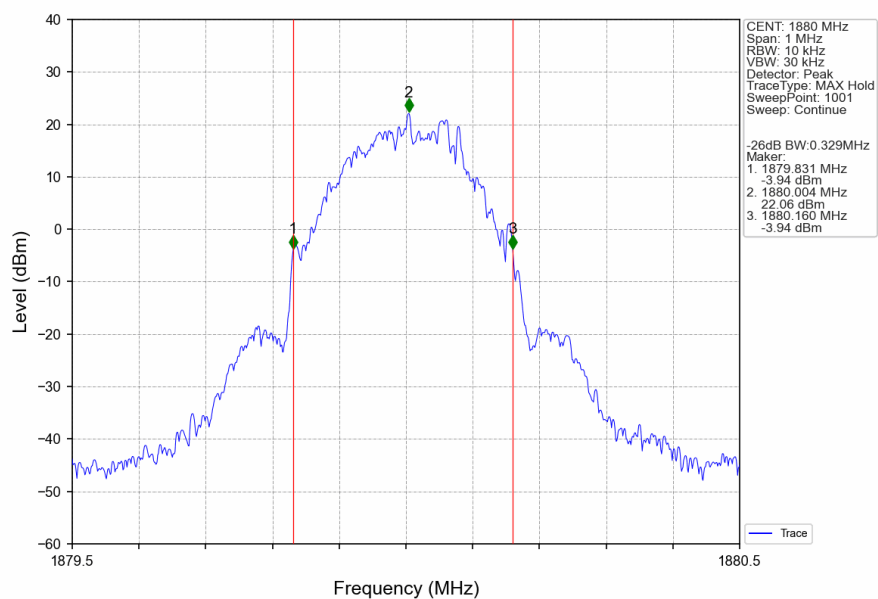
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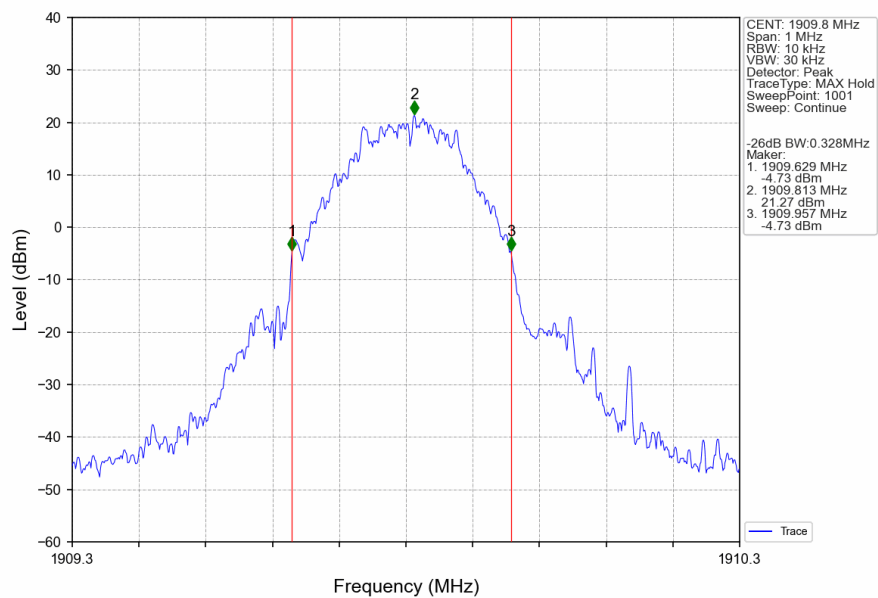
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV





4. Peak-Average Ratio

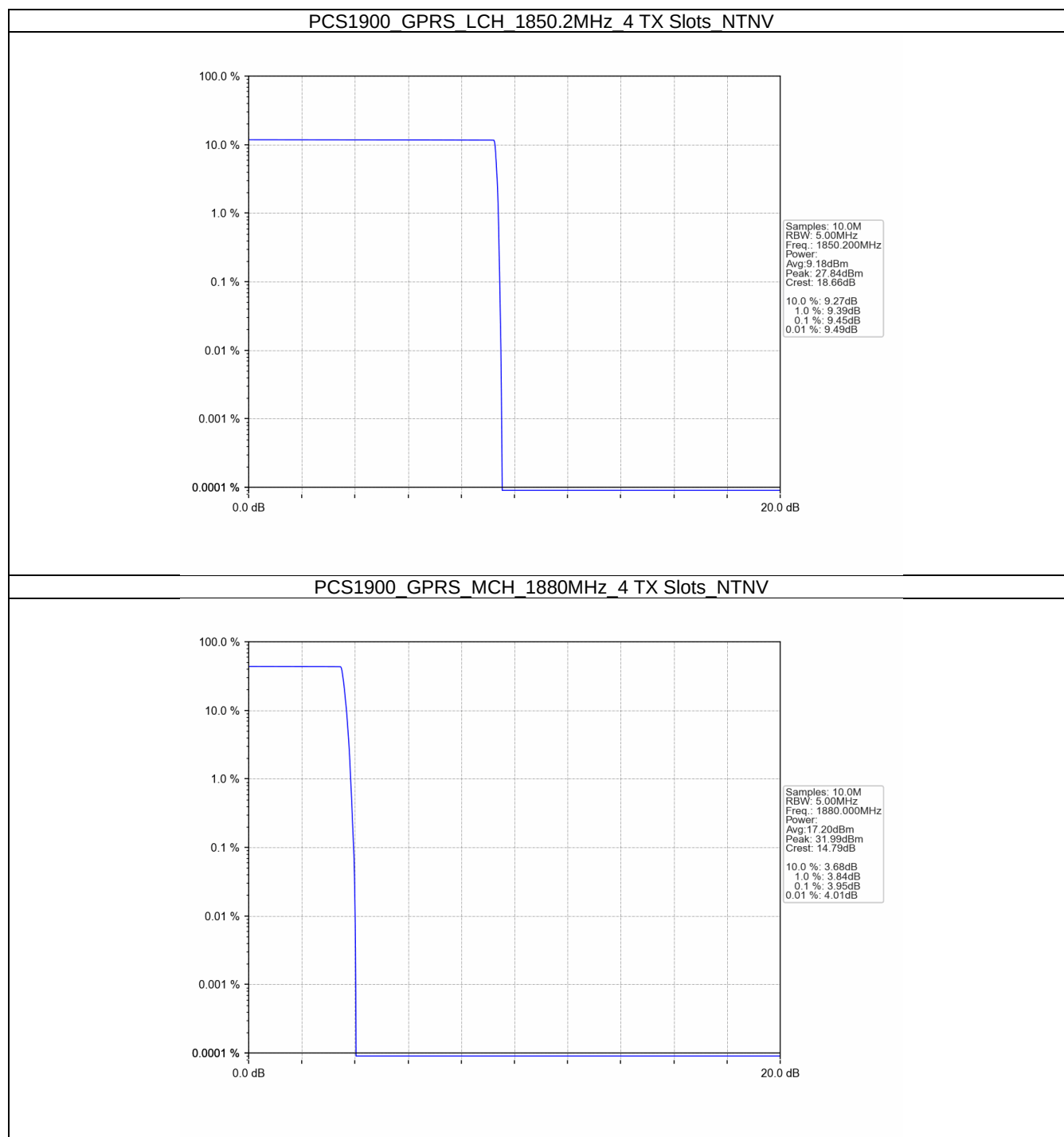
4.1 Test Result

4.1.1 PCS1900

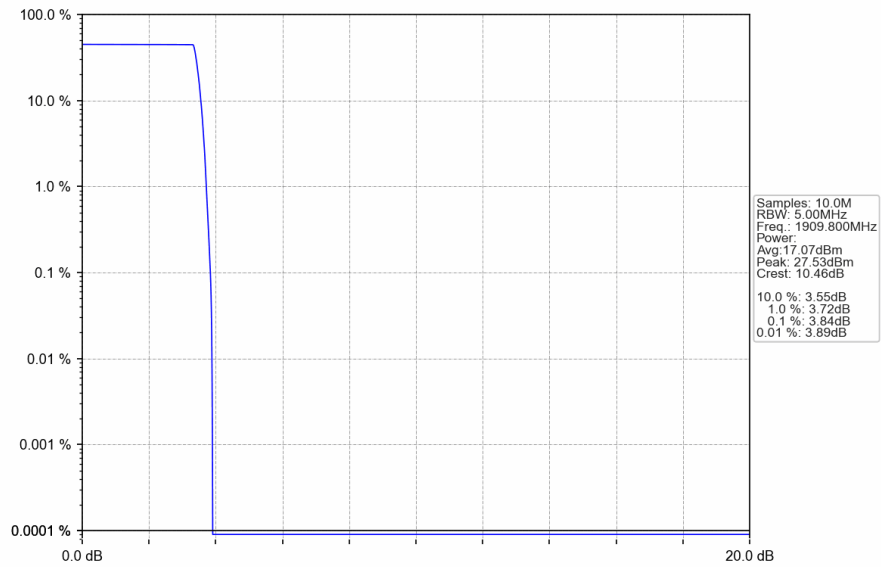
Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	1850.2	9.45	<=13	Pass
			1880	3.95	<=13	Pass
			1909.8	3.84	<=13	Pass
	EGPRS	4 TX Slots	1850.2	7.91	<=13	Pass
			1880	6.94	<=13	Pass
			1909.8	7.10	<=13	Pass

4.2 Test Graph

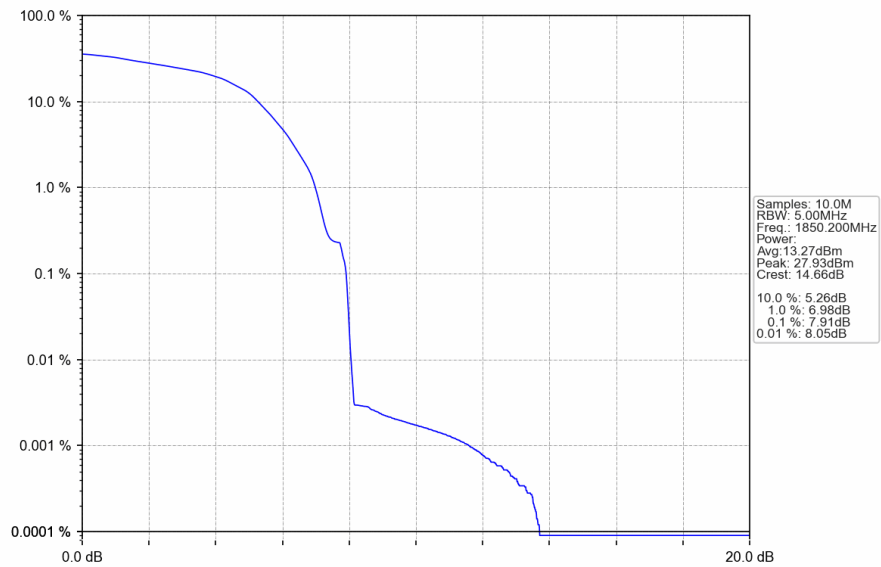
4.2.1 PCS1900



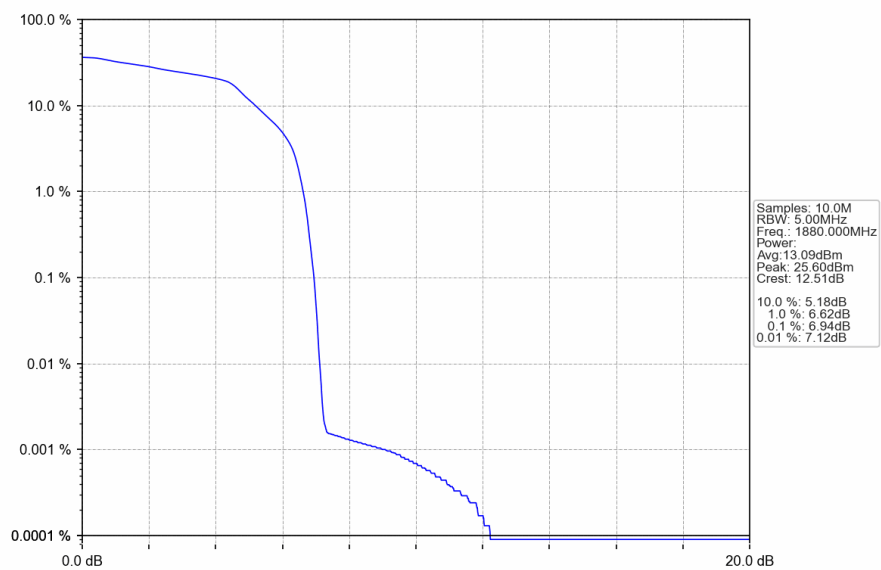
PCS1900_GPRS_HCH_1909.8MHz_4 TX Slots_NTNV



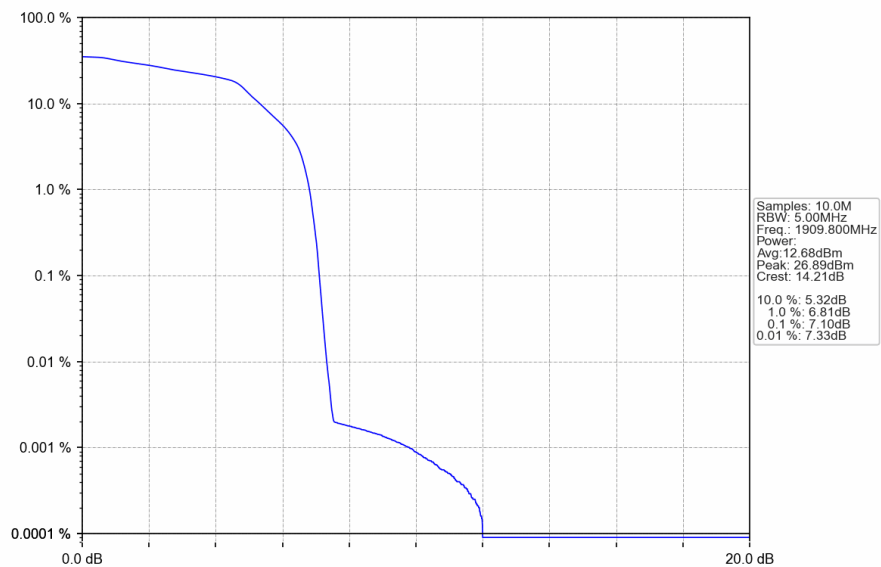
PCS1900_EGPRS_LCH_1850.2MHz_4 TX Slots_NTNV



PCS1900_EGPRS_MCH_1880MHz_4 TX Slots_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_4 TX Slots_NTNV





5. Spurious Emission

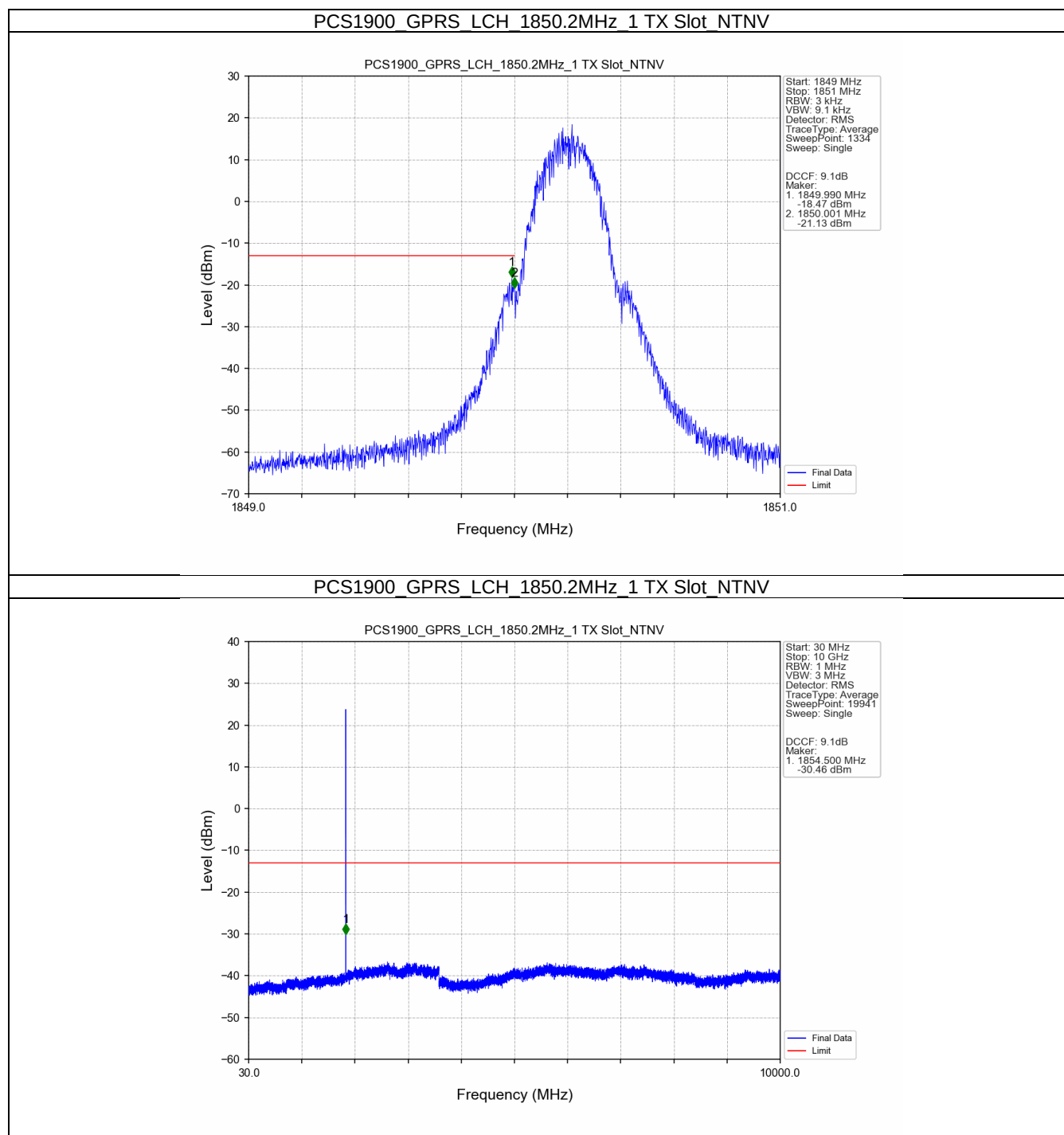
5.1 Test Result

5.1.1 PCS1900

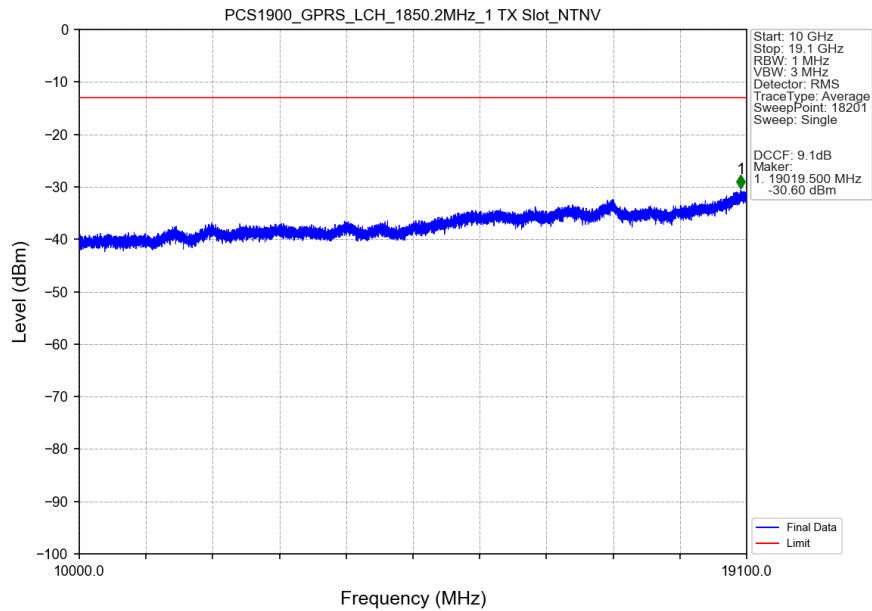
Band: PCS1900					
ENV	Mode		Frequency (MHz)	Spurious Emission	
	Network	Subset		Result	Limit
NTNV	GPRS	1 TX Slot	1850.2	Refer To Test Graph	Pass
			1880	Refer To Test Graph	Pass
			1909.8	Refer To Test Graph	Pass
	EGPRS	1 TX Slot	1850.2	Refer To Test Graph	Pass
			1880	Refer To Test Graph	Pass
			1909.8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

5.2 Test Graph

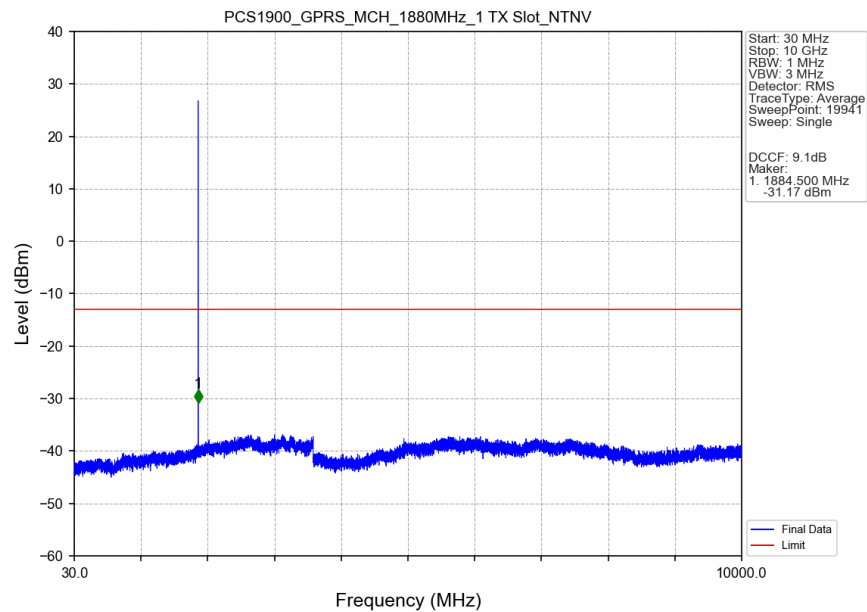
5.2.1 PCS1900



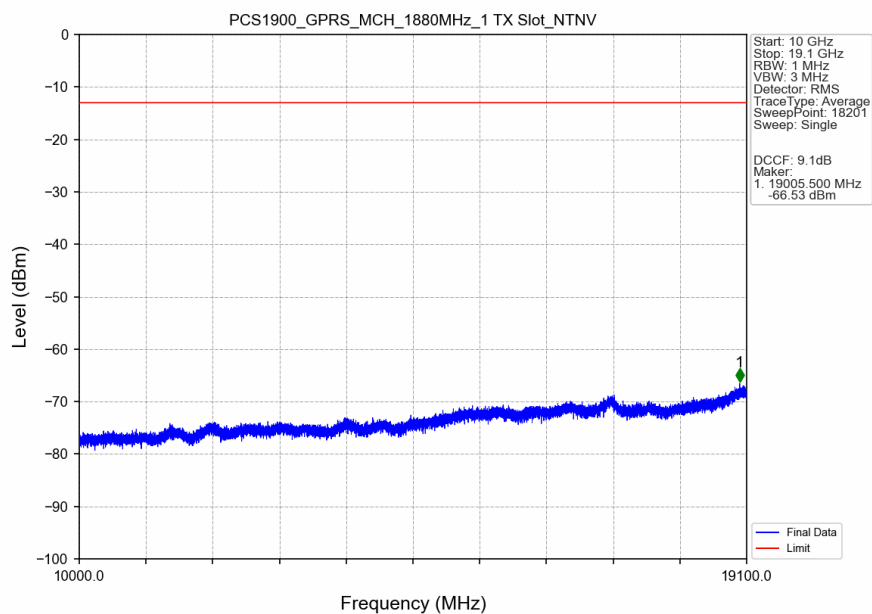
PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



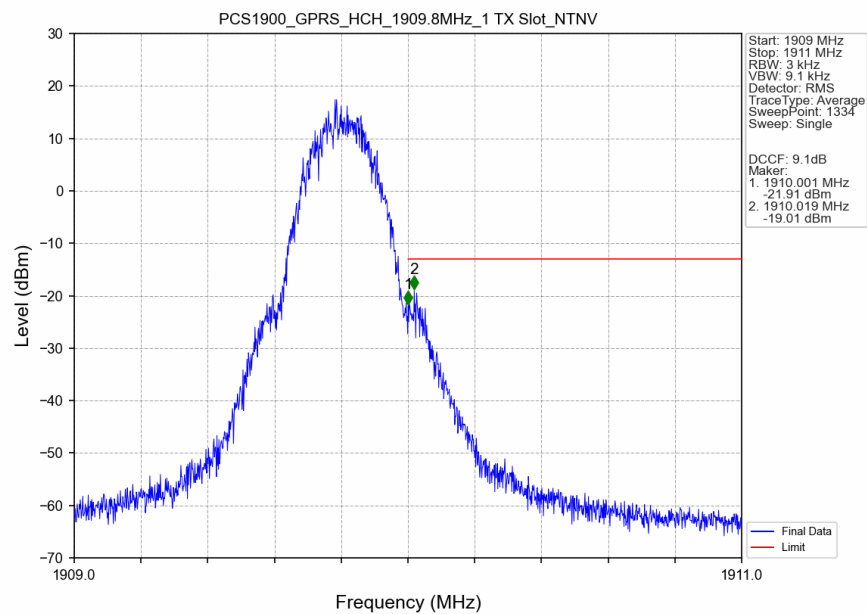
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



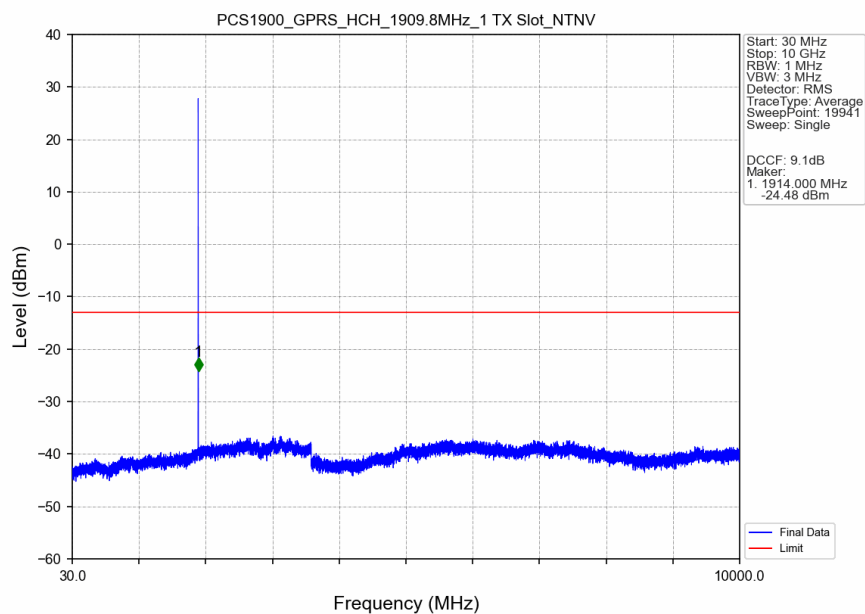
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



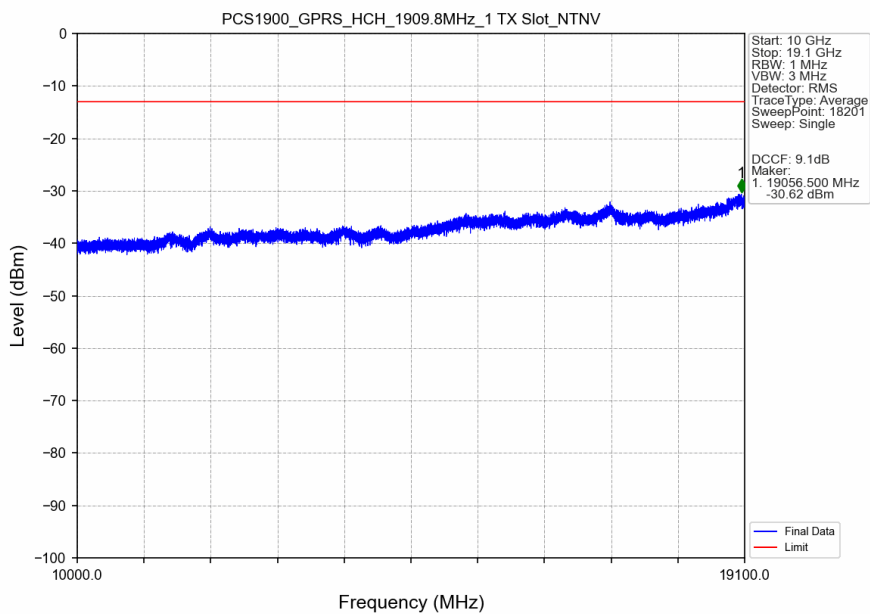
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



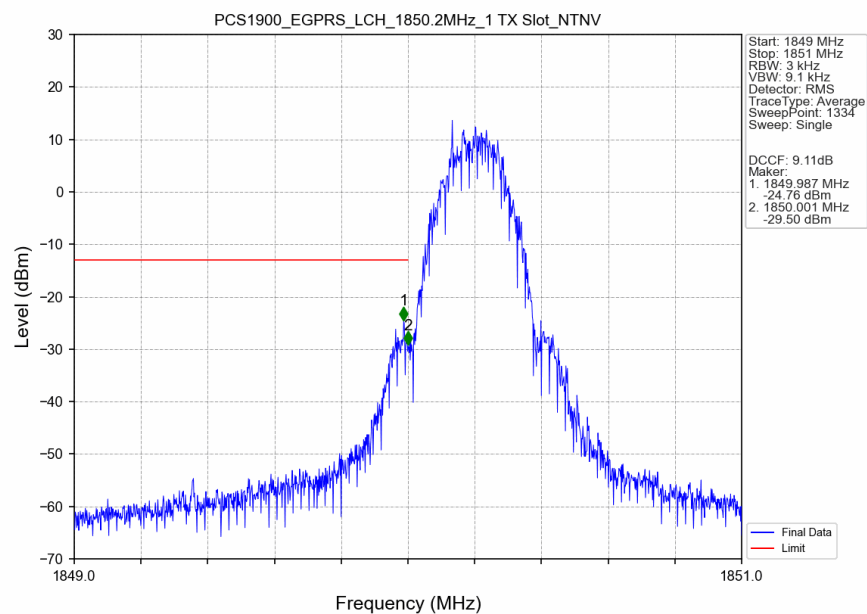
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



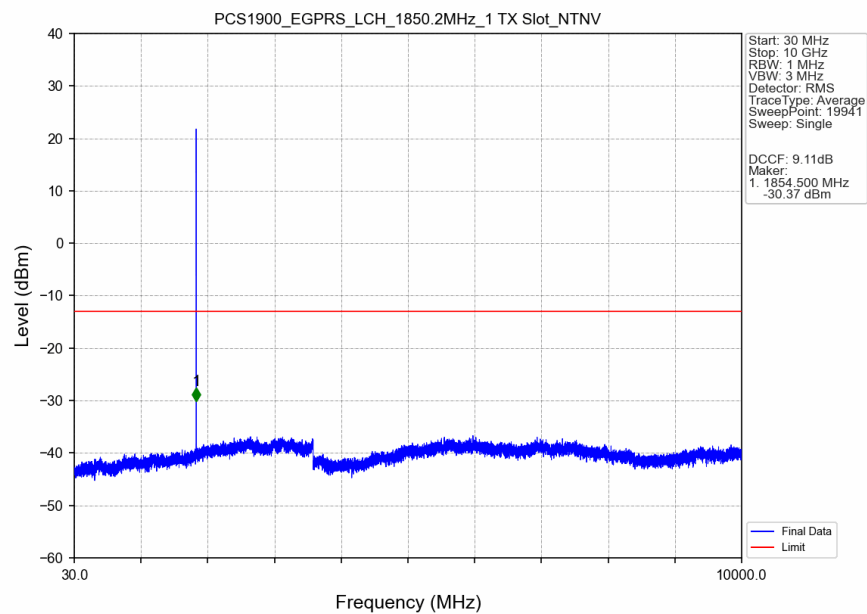
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



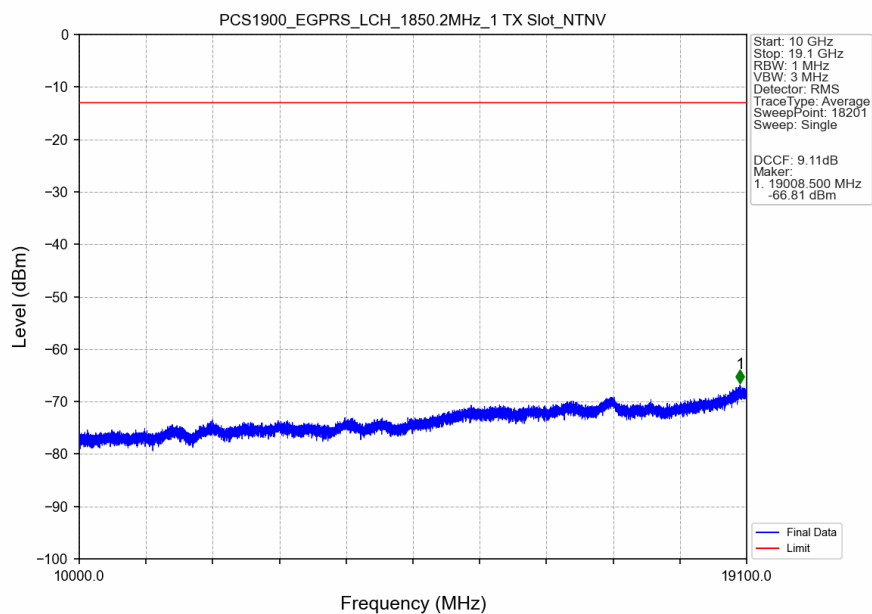
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



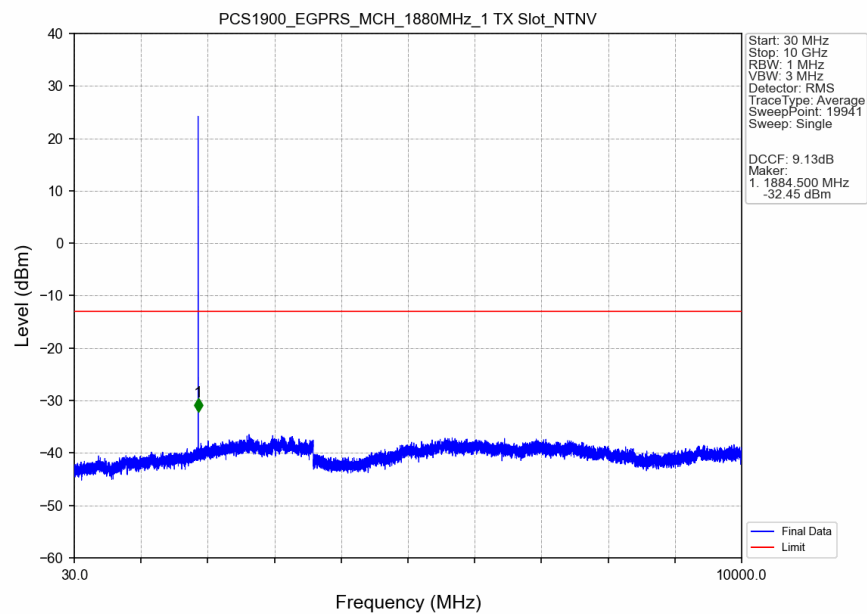
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



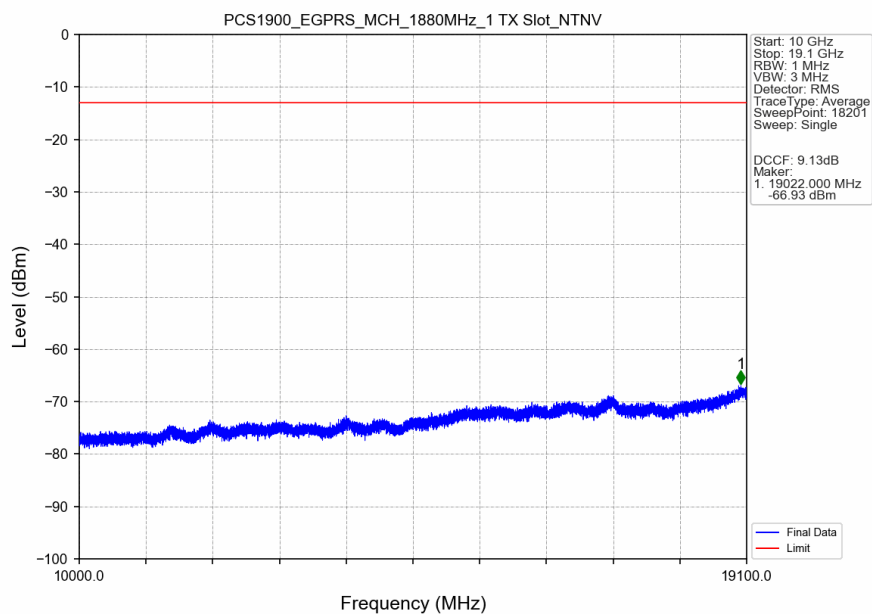
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



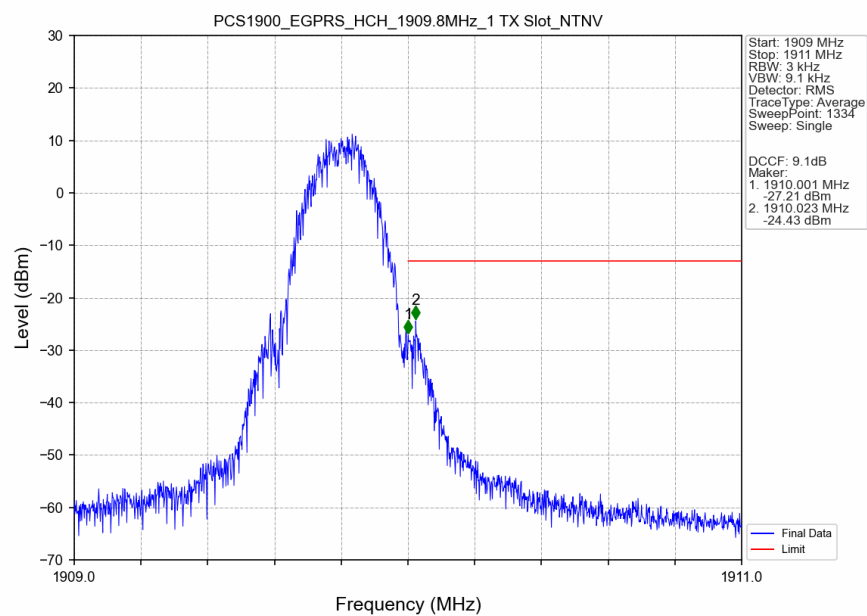
PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



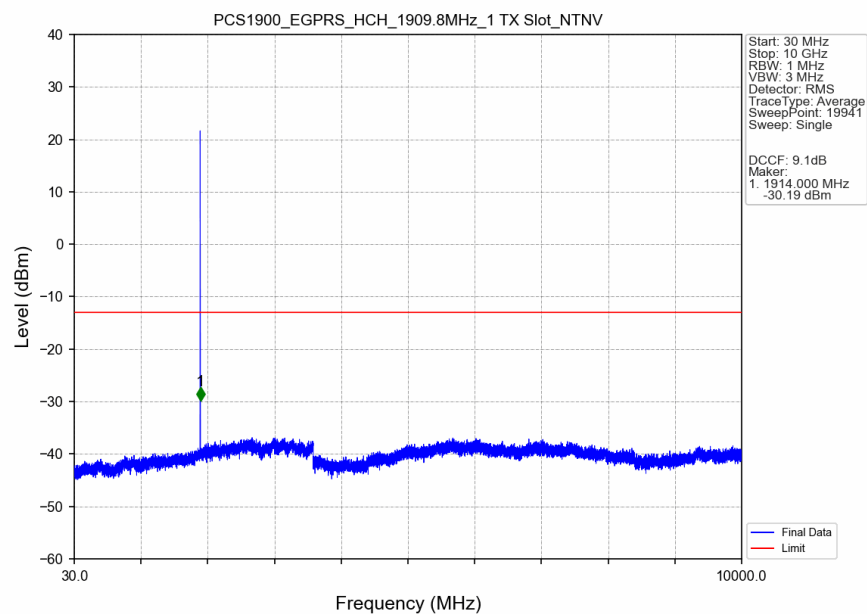
PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



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

