

1. Effective (Isotropic) Radiated Power Output Data

1.1 PCS1900_EIRP

1.1.1 Test Result

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	28.86	-0.4	28.46	<=33.01	Pass
		2 TX Slots	1850.2	27.79	-0.4	27.39	<=33.01	Pass
		3 TX Slots	1850.2	25.85	-0.4	25.45	<=33.01	Pass
		4 TX Slots	1850.2	25.01	-0.4	24.61	<=33.01	Pass
		1 TX Slot	1880	28.45	-0.4	28.05	<=33.01	Pass
		2 TX Slots	1880	27.33	-0.4	26.93	<=33.01	Pass
		3 TX Slots	1880	25.32	-0.4	24.92	<=33.01	Pass
		4 TX Slots	1880	24.45	-0.4	24.05	<=33.01	Pass
		1 TX Slot	1909.8	28.38	-0.4	27.98	<=33.01	Pass
		2 TX Slots	1909.8	27.16	-0.4	26.76	<=33.01	Pass
		3 TX Slots	1909.8	25.06	-0.4	24.66	<=33.01	Pass
		4 TX Slots	1909.8	24.2	-0.4	23.8	<=33.01	Pass
	EGPRS	1 TX Slot	1850.2	26.53	-0.4	26.13	<=33.01	Pass
		2 TX Slots	1850.2	25.35	-0.4	24.95	<=33.01	Pass
		3 TX Slots	1850.2	23.54	-0.4	23.14	<=33.01	Pass
		4 TX Slots	1850.2	22.12	-0.4	21.72	<=33.01	Pass
		1 TX Slot	1880	27.4	-0.4	27	<=33.01	Pass
		2 TX Slots	1880	26.19	-0.4	25.79	<=33.01	Pass
		3 TX Slots	1880	24.19	-0.4	23.79	<=33.01	Pass
		4 TX Slots	1880	23.19	-0.4	22.79	<=33.01	Pass
1 TX Slot	1909.8	27.06	-0.4	26.66	<=33.01	Pass		
2 TX Slots	1909.8	26.4	-0.4	26	<=33.01	Pass		
3 TX Slots	1909.8	24.4	-0.4	24	<=33.01	Pass		
4 TX Slots	1909.8	23.5	-0.4	23.1	<=33.01	Pass		

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 PCS1900

2.1.1 Test Result

Band: PCS1900							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
GPRS	1850.2	20	12	-4.088	-0.0022	-2.5 to 2.5	Pass
			24	0.126	0.0001	-2.5 to 2.5	Pass
			48	-4.865	-0.0026	-2.5 to 2.5	Pass
		-30	24	-1.135	-0.0006	-2.5 to 2.5	Pass
		-20	24	-1.325	-0.0007	-2.5 to 2.5	Pass
		-10	24	-5.196	-0.0028	-2.5 to 2.5	Pass
		0	24	-2.814	-0.0015	-2.5 to 2.5	Pass
		10	24	-12.597	-0.0068	-2.5 to 2.5	Pass

		30	24	-6.207	-0.0034	-2.5 to 2.5	Pass
		40	24	-2.567	-0.0014	-2.5 to 2.5	Pass
		50	24	7.740	0.0042	-2.5 to 2.5	Pass
	1880	20	12	4.550	0.0024	-2.5 to 2.5	Pass
			24	2.129	0.0011	-2.5 to 2.5	Pass
			48	-8.121	-0.0043	-2.5 to 2.5	Pass
		-30	24	-8.565	-0.0046	-2.5 to 2.5	Pass
		-20	24	4.245	0.0023	-2.5 to 2.5	Pass
		-10	24	-7.347	-0.0039	-2.5 to 2.5	Pass
		0	24	6.863	0.0037	-2.5 to 2.5	Pass
		10	24	4.805	0.0026	-2.5 to 2.5	Pass
		30	24	2.285	0.0012	-2.5 to 2.5	Pass
		40	24	-1.560	-0.0008	-2.5 to 2.5	Pass
		50	24	-4.871	-0.0026	-2.5 to 2.5	Pass
	1909.8	20	12	-5.688	-0.0030	-2.5 to 2.5	Pass
			24	-4.532	-0.0024	-2.5 to 2.5	Pass
			48	-9.883	-0.0052	-2.5 to 2.5	Pass
		-30	24	-1.714	-0.0009	-2.5 to 2.5	Pass
		-20	24	-0.530	-0.0003	-2.5 to 2.5	Pass
		-10	24	-0.354	-0.0002	-2.5 to 2.5	Pass
		0	24	-3.938	-0.0021	-2.5 to 2.5	Pass
10		24	3.579	0.0019	-2.5 to 2.5	Pass	
30		24	-0.534	-0.0003	-2.5 to 2.5	Pass	
40		24	-5.583	-0.0029	-2.5 to 2.5	Pass	
50		24	-10.767	-0.0056	-2.5 to 2.5	Pass	
EGPRS	1850.2	20	12	-4.656	-0.0025	-2.5 to 2.5	Pass
			24	-21.703	-0.0117	-2.5 to 2.5	Pass
			48	7.467	0.0040	-2.5 to 2.5	Pass
		-30	24	-0.843	-0.0005	-2.5 to 2.5	Pass
		-20	24	-4.832	-0.0026	-2.5 to 2.5	Pass
		-10	24	-13.928	-0.0075	-2.5 to 2.5	Pass
		0	24	-13.884	-0.0075	-2.5 to 2.5	Pass
		10	24	-0.543	-0.0003	-2.5 to 2.5	Pass
		30	24	-2.705	-0.0015	-2.5 to 2.5	Pass
		40	24	-3.116	-0.0017	-2.5 to 2.5	Pass
		50	24	-6.359	-0.0034	-2.5 to 2.5	Pass
	1880	20	12	-8.764	-0.0047	-2.5 to 2.5	Pass
			24	1.686	0.0009	-2.5 to 2.5	Pass
			48	0.773	0.0004	-2.5 to 2.5	Pass
		-30	24	-7.688	-0.0041	-2.5 to 2.5	Pass
		-20	24	-20.345	-0.0108	-2.5 to 2.5	Pass
		-10	24	-0.165	-0.0001	-2.5 to 2.5	Pass
		0	24	2.465	0.0013	-2.5 to 2.5	Pass
		10	24	1.299	0.0007	-2.5 to 2.5	Pass
		30	24	-1.143	-0.0006	-2.5 to 2.5	Pass
		40	24	-9.693	-0.0052	-2.5 to 2.5	Pass
		50	24	-12.867	-0.0068	-2.5 to 2.5	Pass
	1909.8	20	12	-11.019	-0.0058	-2.5 to 2.5	Pass
			24	-8.238	-0.0043	-2.5 to 2.5	Pass
			48	-1245	-0.0073	-2.5 to 2.5	Pass
		-30	24	-8.236	-0.0043	-2.5 to 2.5	Pass
		-20	24	-14.680	-0.0077	-2.5 to 2.5	Pass
		-10	24	-9.880	-0.0052	-2.5 to 2.5	Pass
		0	24	-16.535	-0.0087	-2.5 to 2.5	Pass
		10	24	-10.056	-0.0053	-2.5 to 2.5	Pass
30		24	-16.428	-0.0086	-2.5 to 2.5	Pass	
40		24	1.390	0.0007	-2.5 to 2.5	Pass	

		50	24	-1.087	-0.0006	-2.5 to 2.5	Pass
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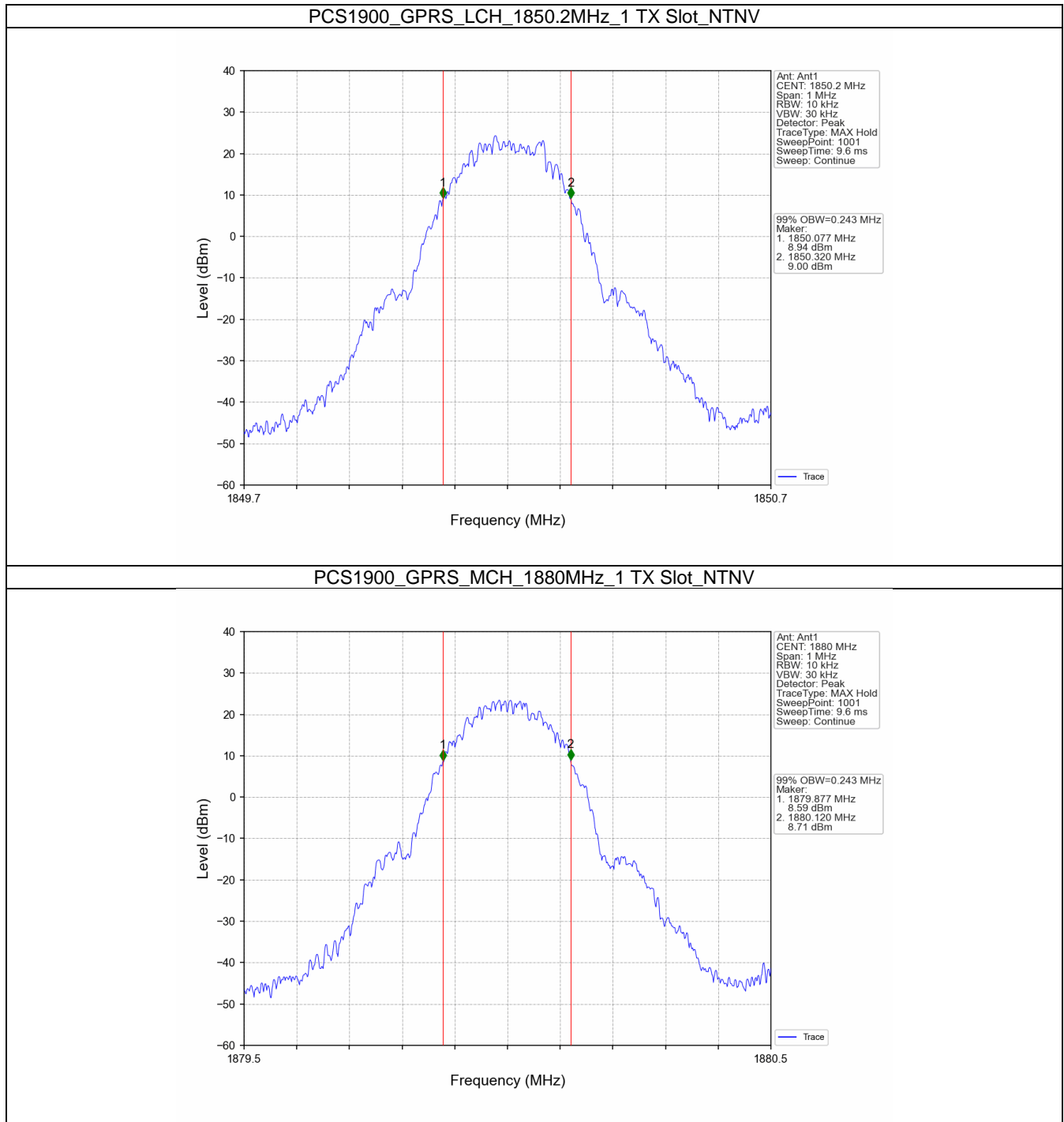
3. 99% & 26dB Bandwidth

3.1 PCS1900_OBW

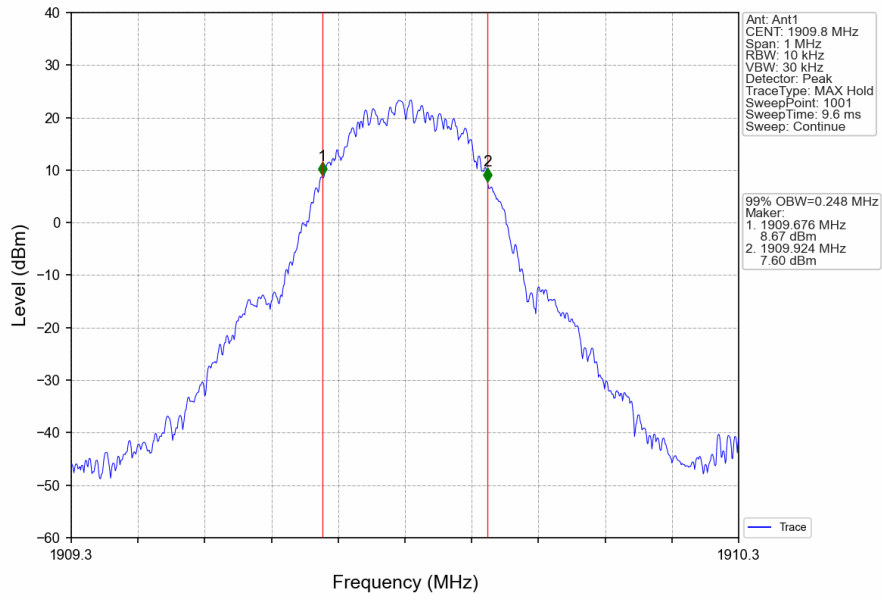
3.1.1 Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	0.243	/	Pass
			1880	0.243	/	Pass
			1909.8	0.248	/	Pass
	EGPRS	1 TX Slot	1850.2	0.248	/	Pass
			1880	0.244	/	Pass
			1909.8	0.250	/	Pass

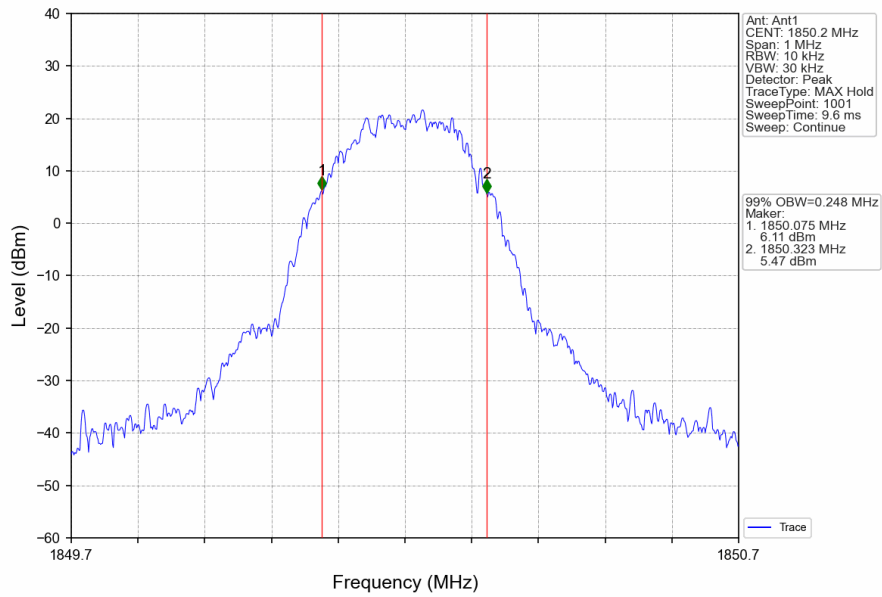
3.1.2 Test Graph



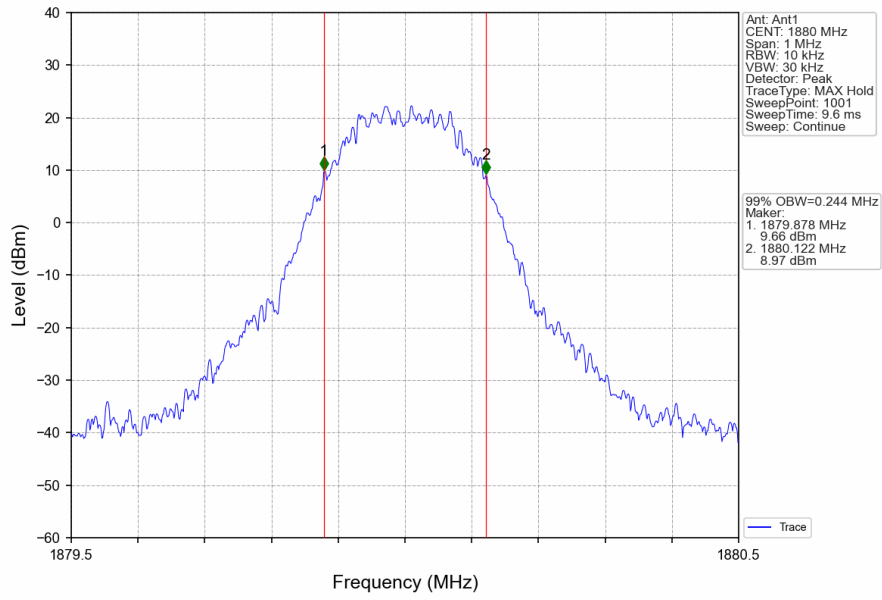
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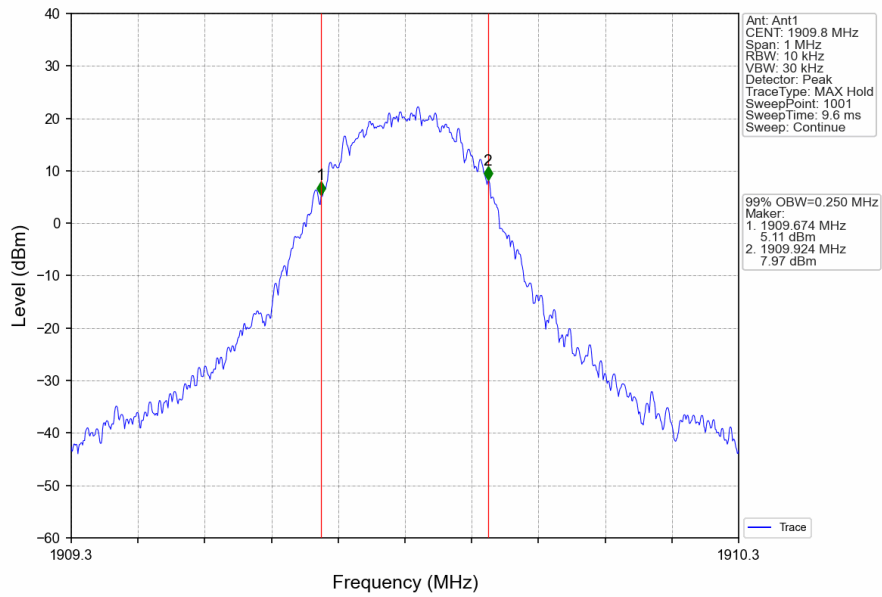
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV

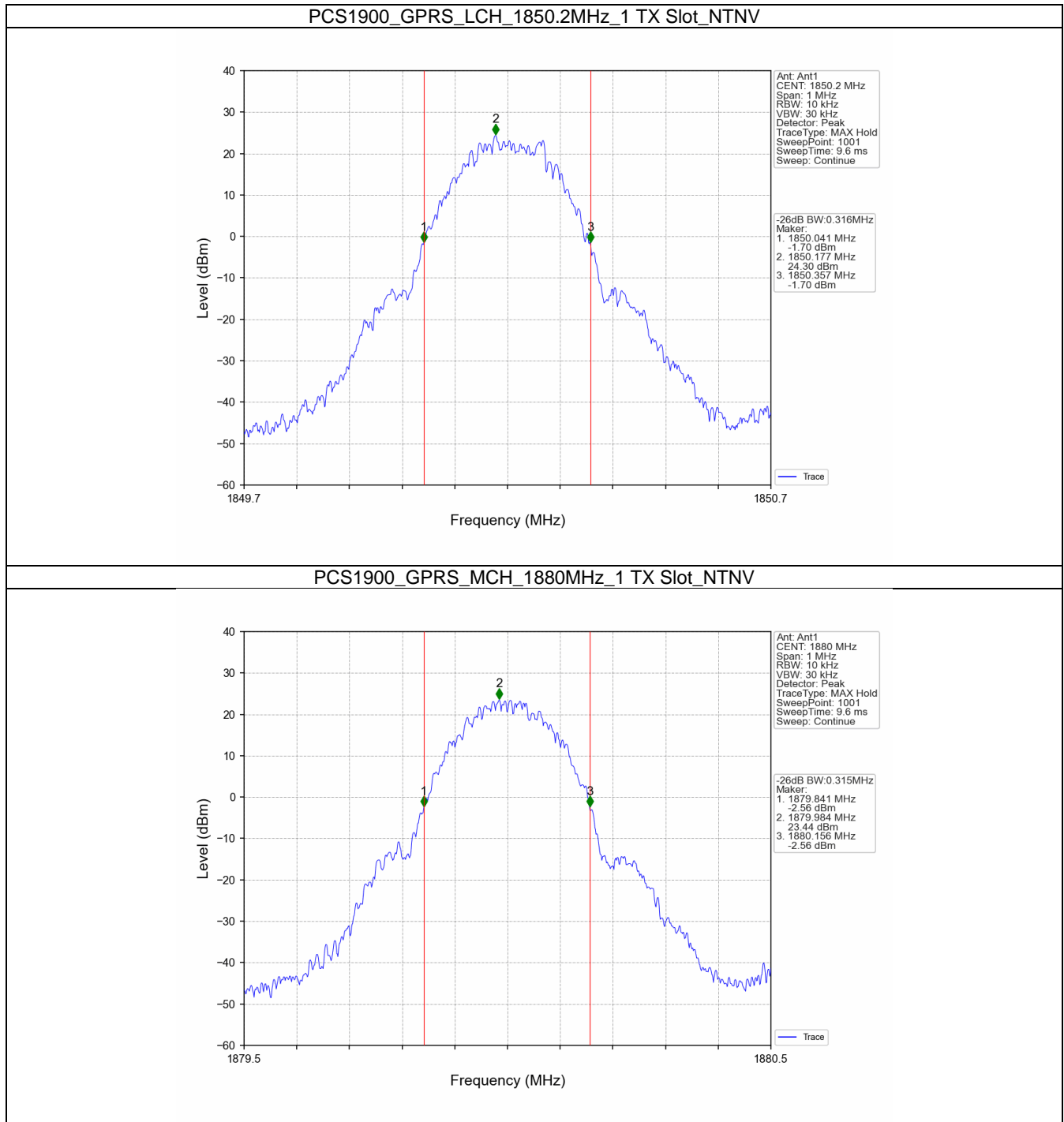


3.2 PCS1900_XDB

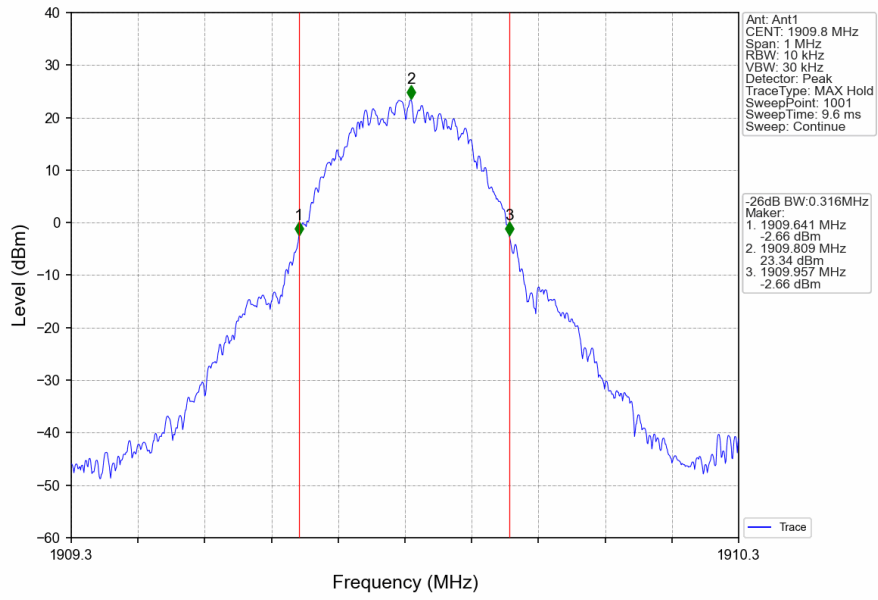
3.2.1 Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	0.316	/	Pass
			1880	0.315	/	Pass
			1909.8	0.316	/	Pass
	EGPRS	1 TX Slot	1850.2	0.316	/	Pass
			1880	0.316	/	Pass
			1909.8	0.329	/	Pass

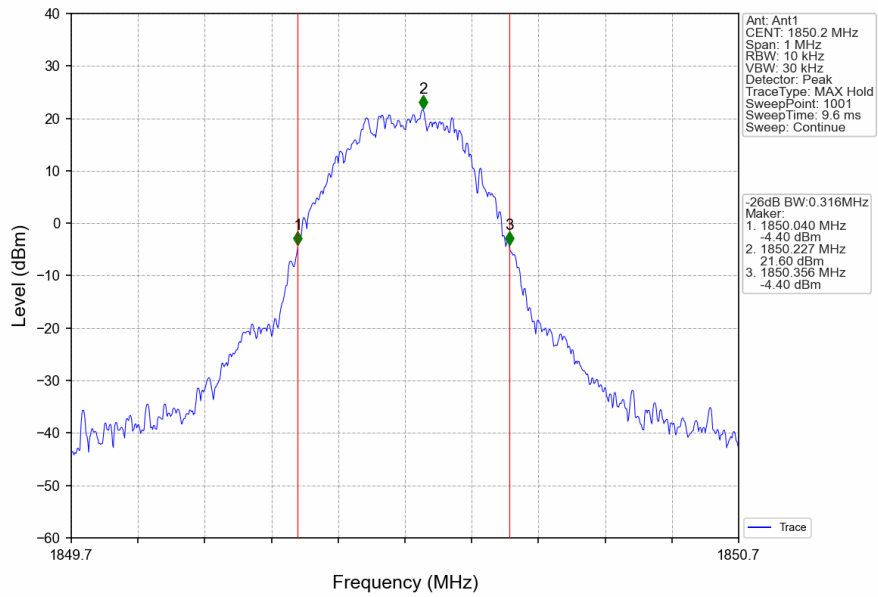
3.2.2 Test Graph



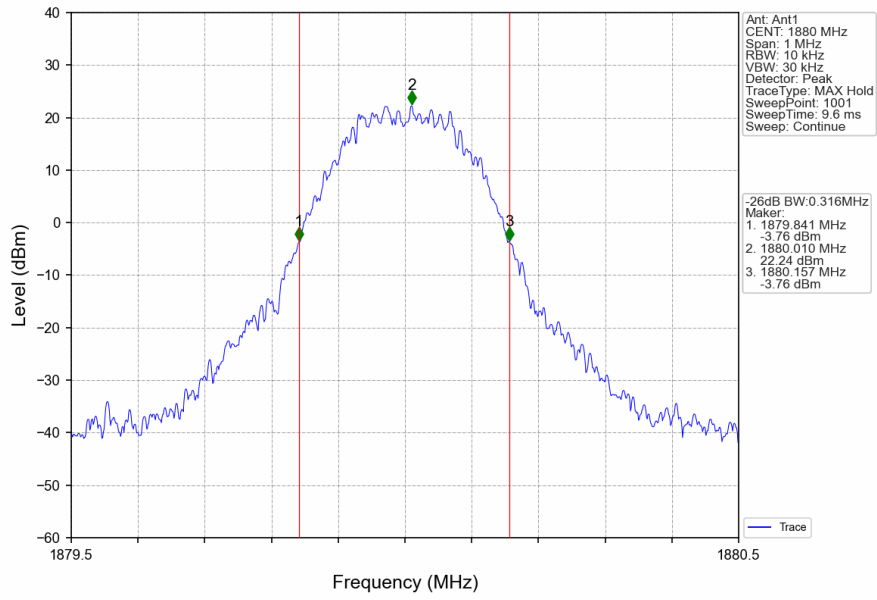
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



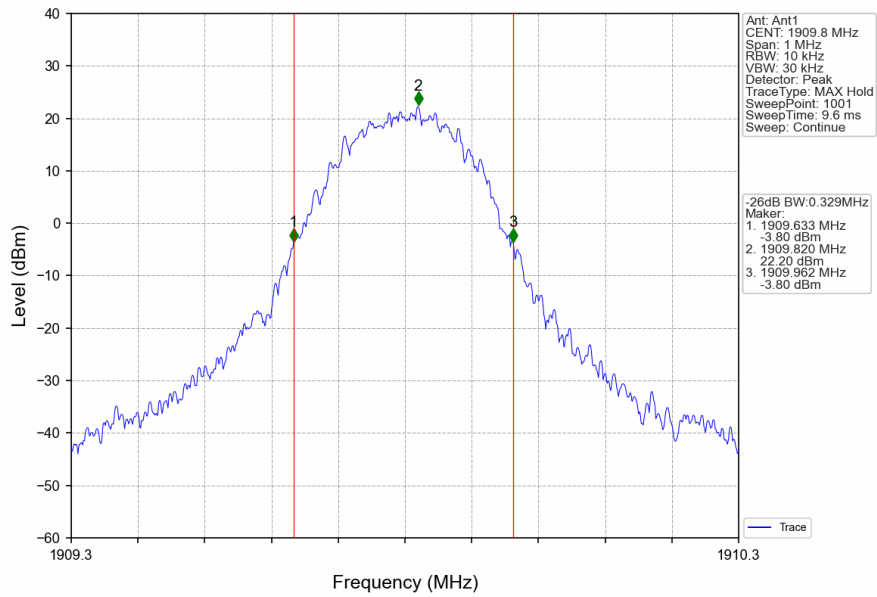
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



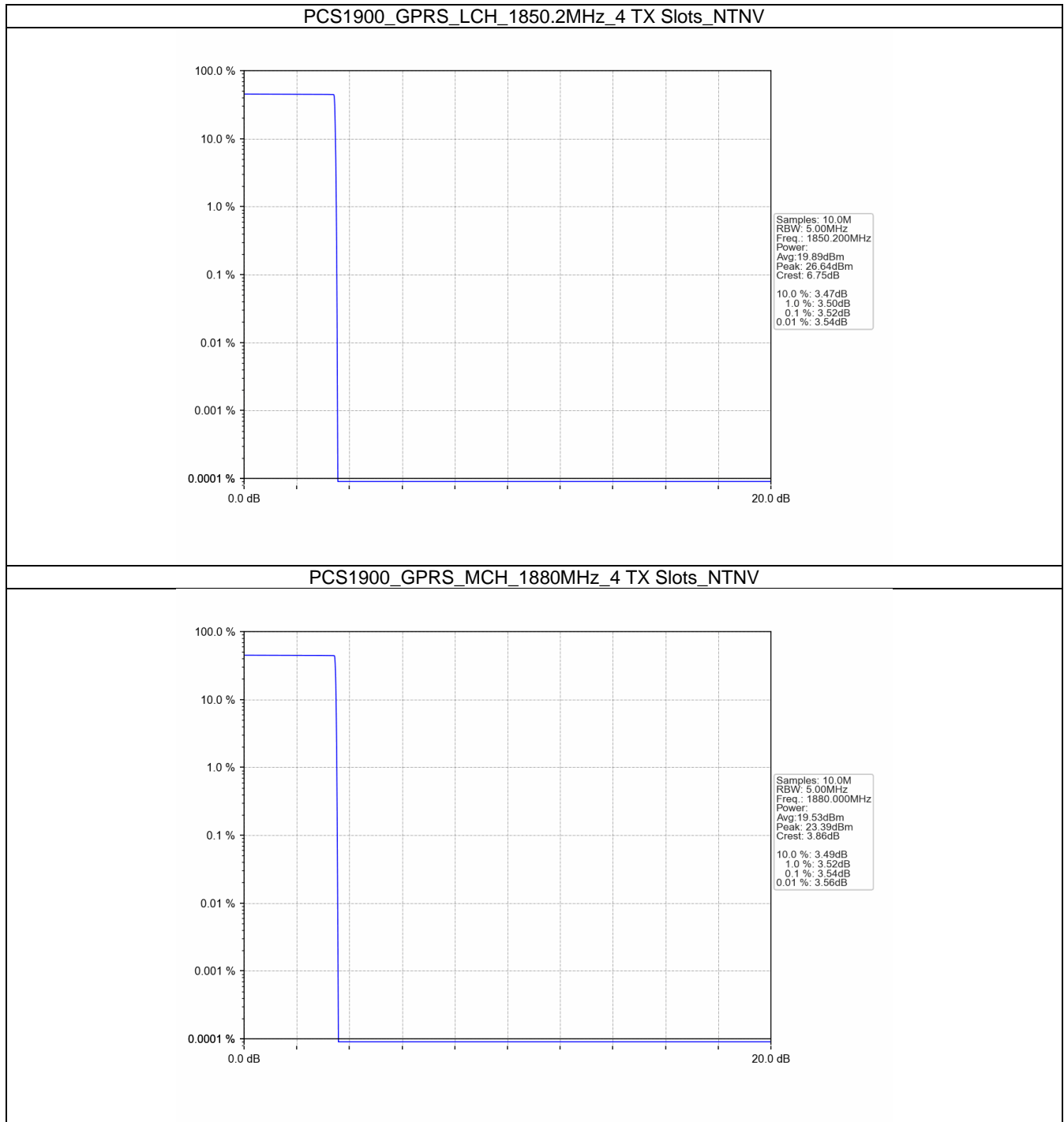
4. Peak-Average Ratio

4.1 PCS1900

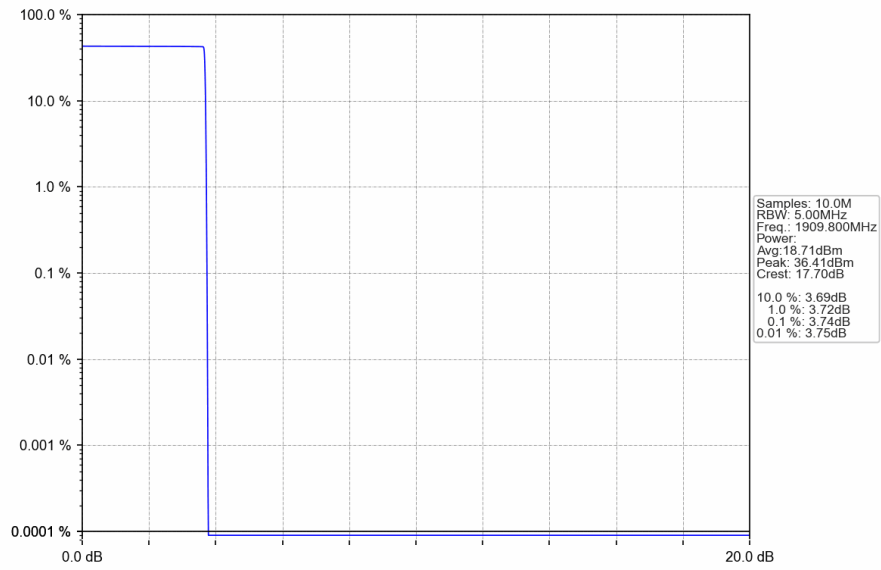
4.1.1 Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	1850.2	3.52	<=13	Pass
			1880	3.54	<=13	Pass
			1909.8	3.74	<=13	Pass
	EGPRS	4 TX Slots	1850.2	12.36	<=13	Pass
			1880	6.45	<=13	Pass
			1909.8	6.72	<=13	Pass

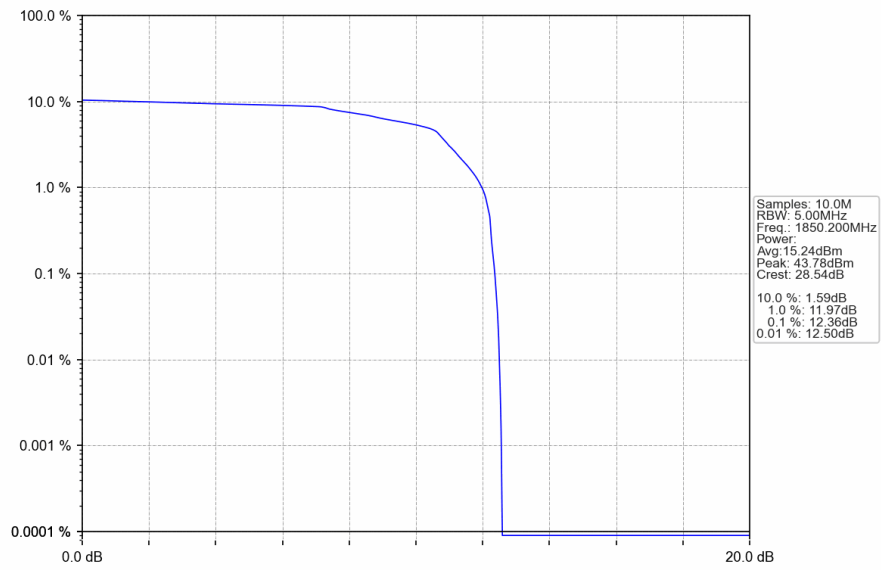
4.1.2 Test Graph



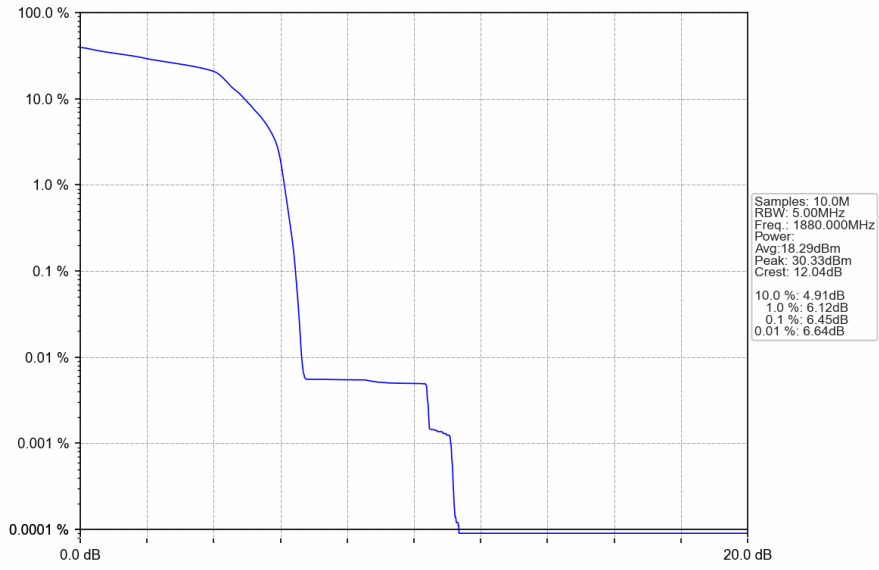
PCS1900_GPRS_HCH_1909.8MHz_4 TX Slots_NTNV



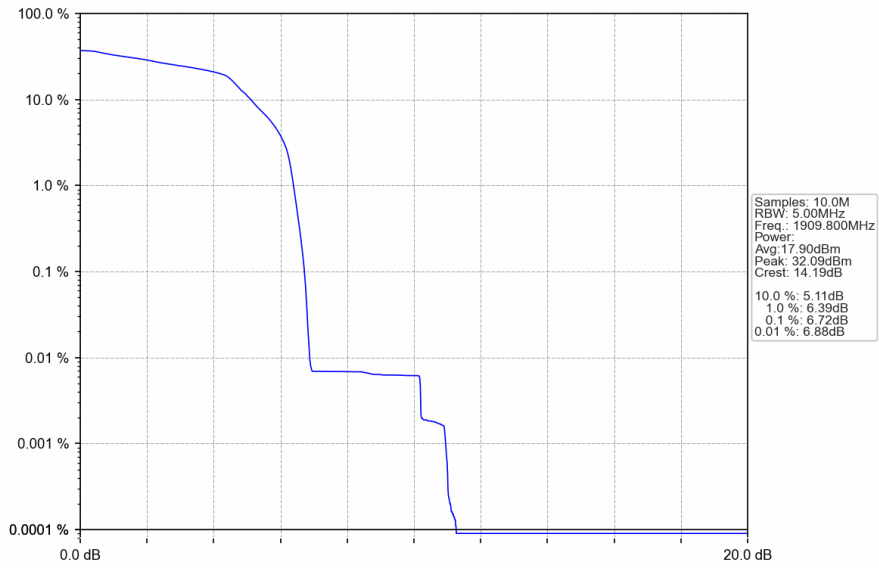
PCS1900_EGPRS_LCH_1850.2MHz_4 TX Slots_NTNV



PCS1900_EGPRS_MCH_1880MHz_4 TX Slots_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_4 TX Slots_NTNV



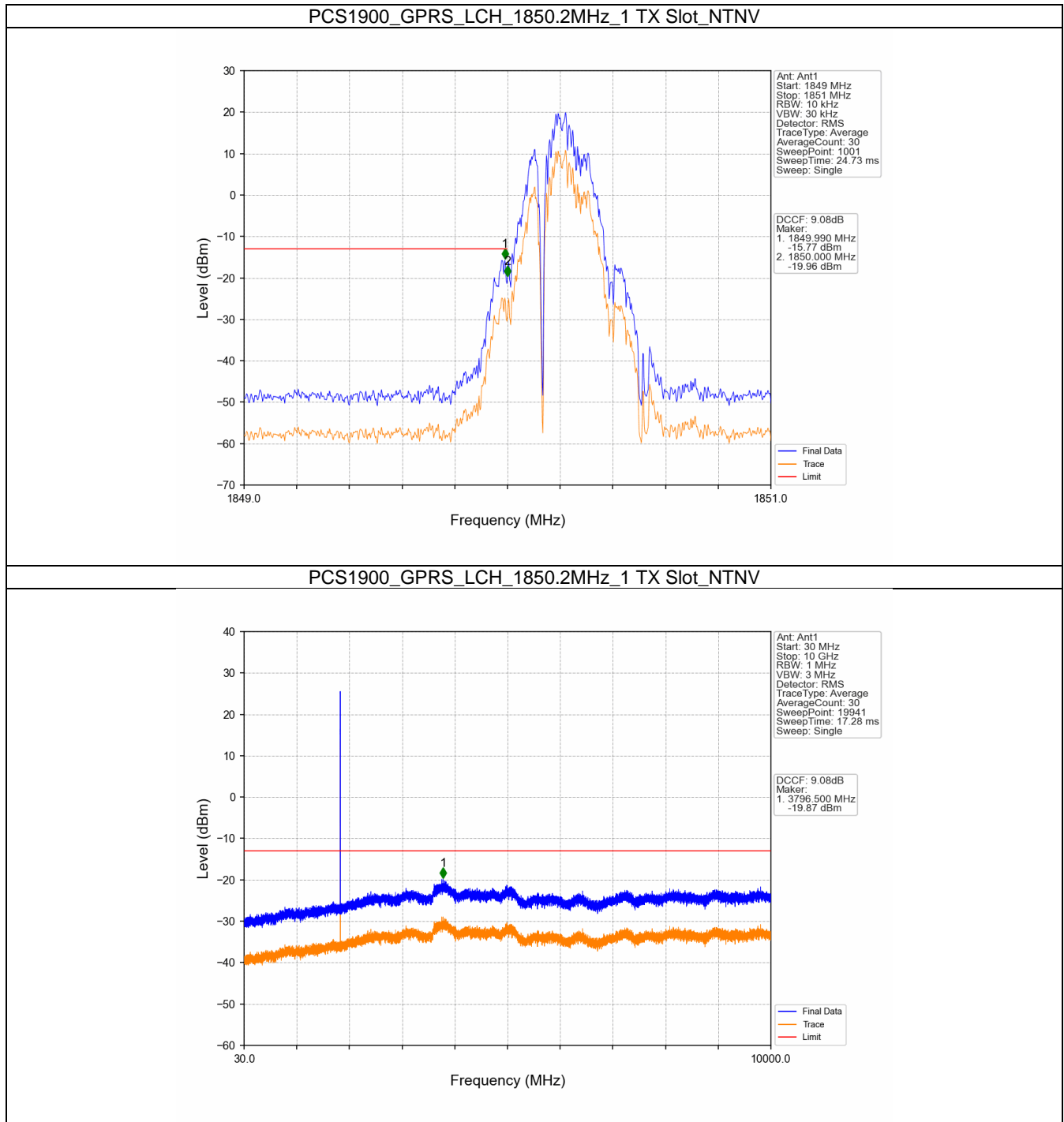
5. Spurious Emission

5.1 PCS1900

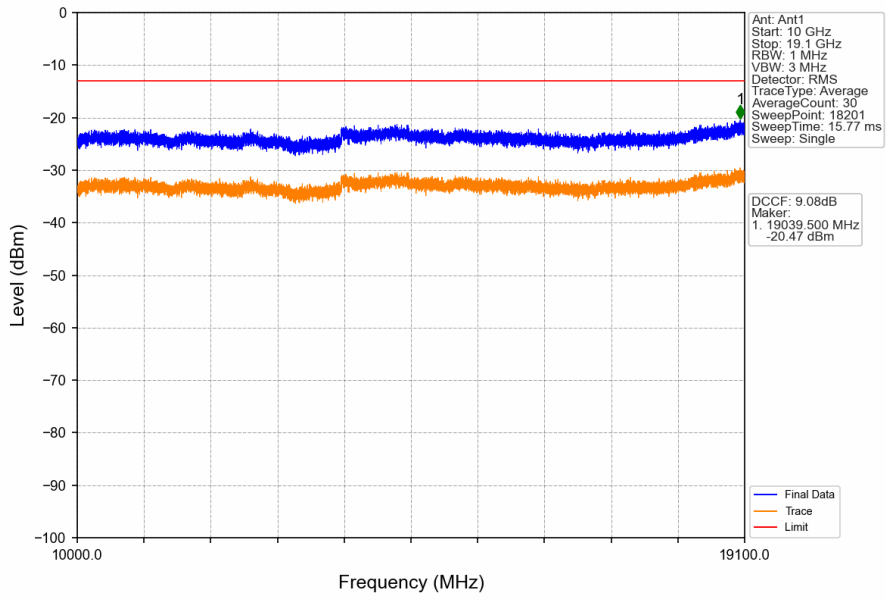
5.1.1 Test Result

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	

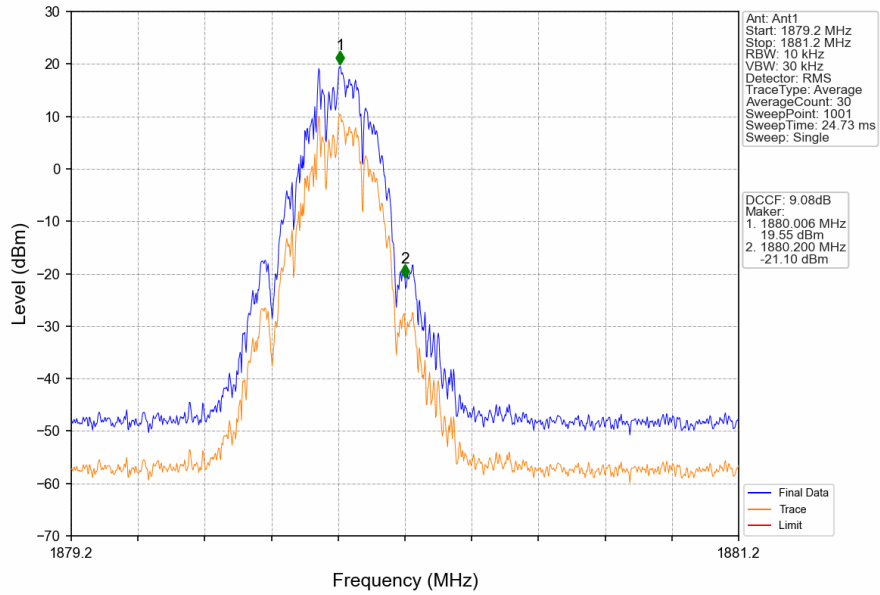
5.1.2 Test Graph



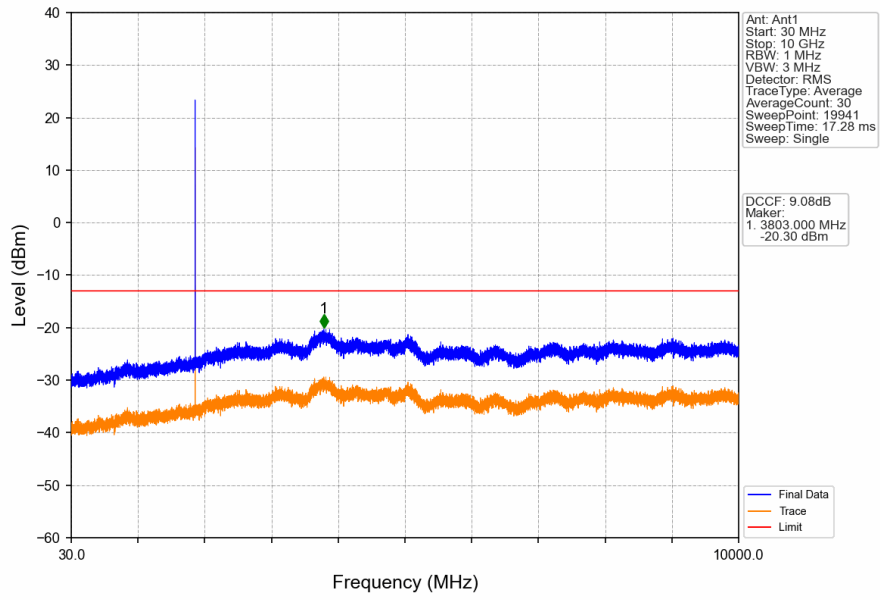
PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



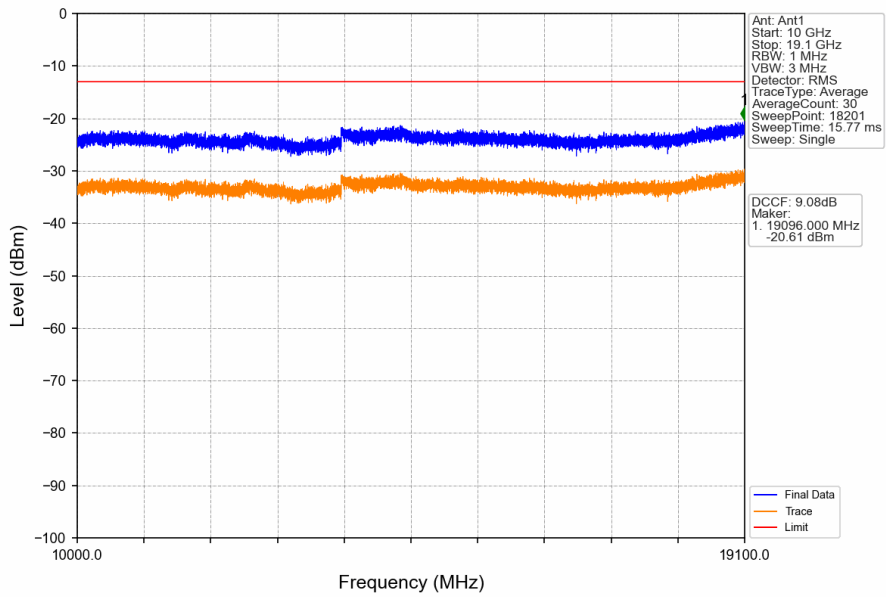
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



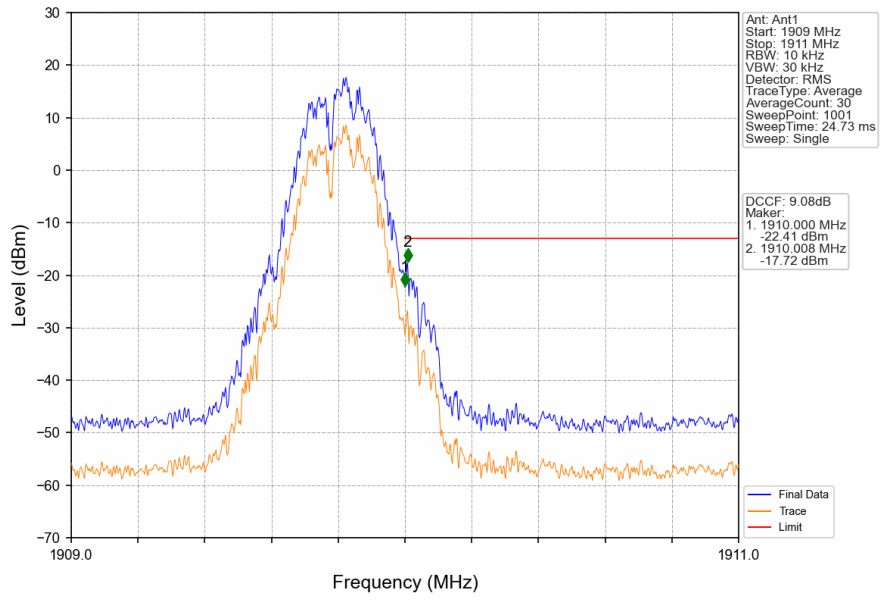
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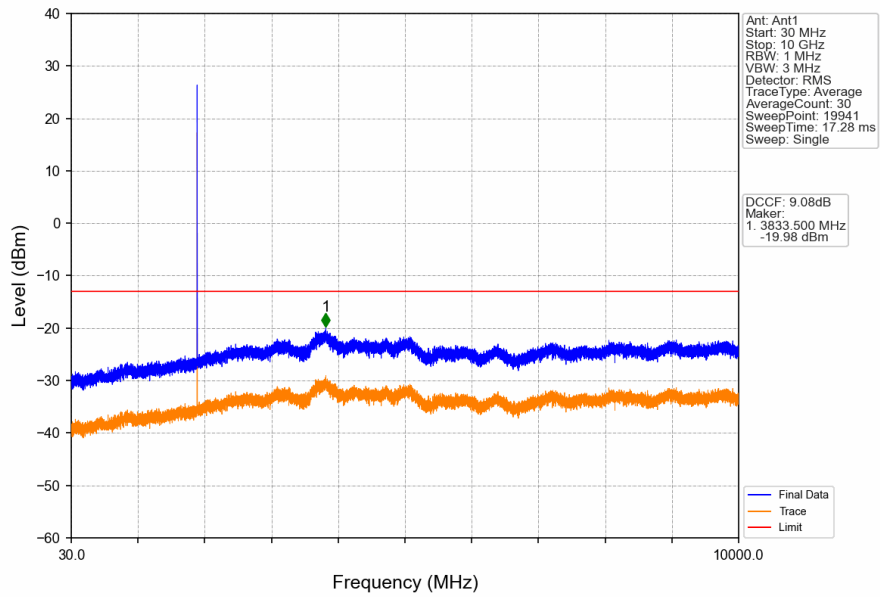
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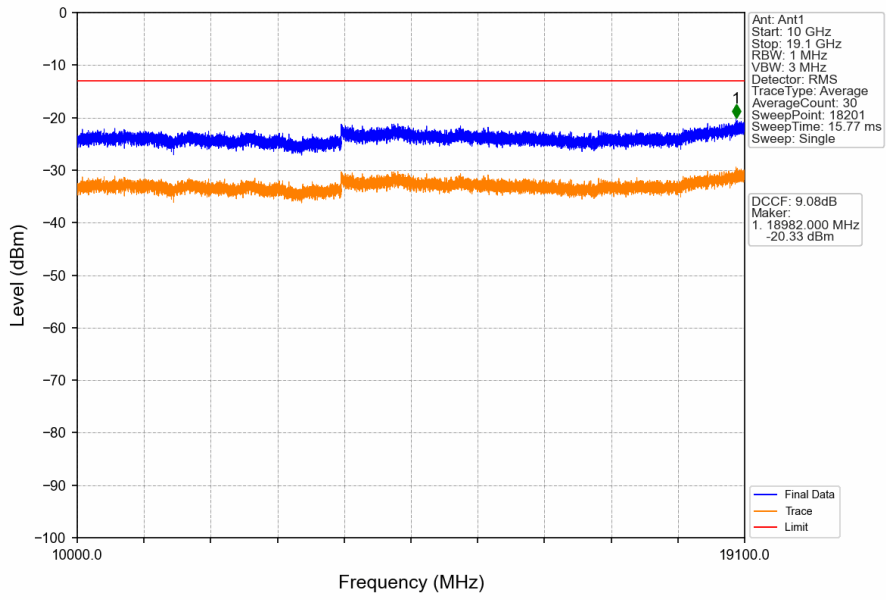
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



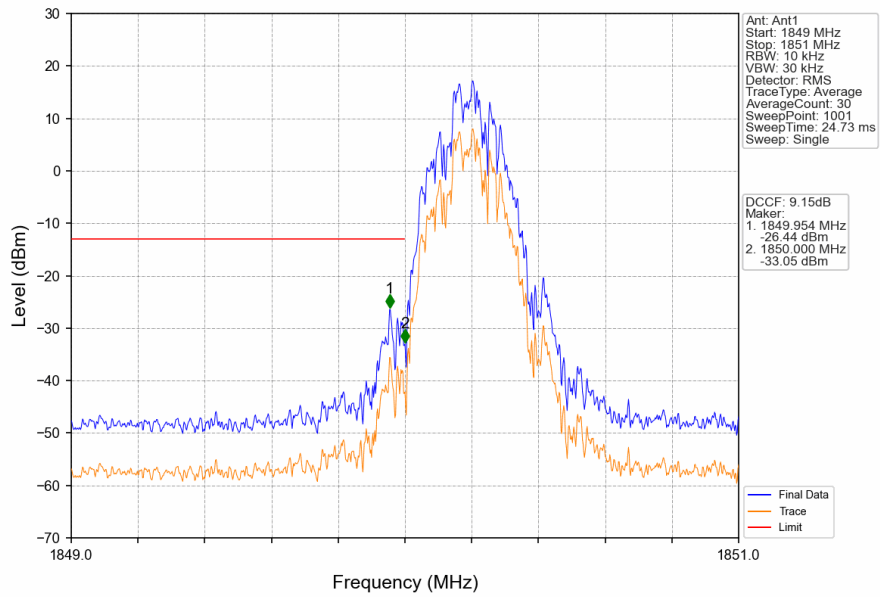
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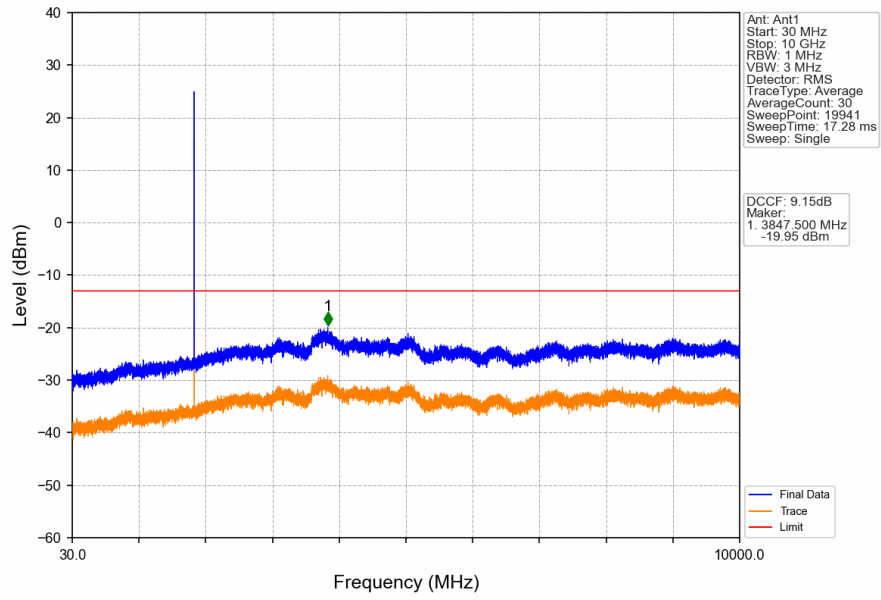
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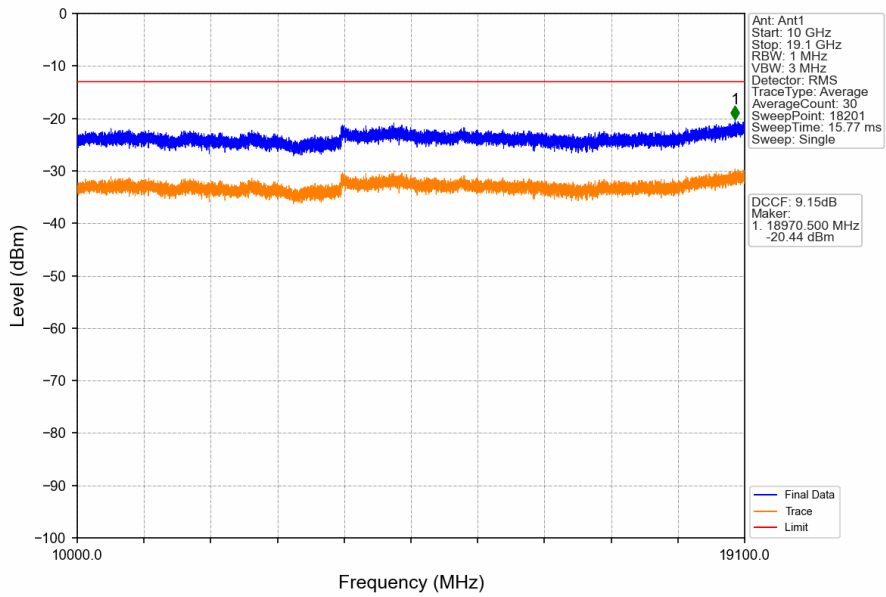
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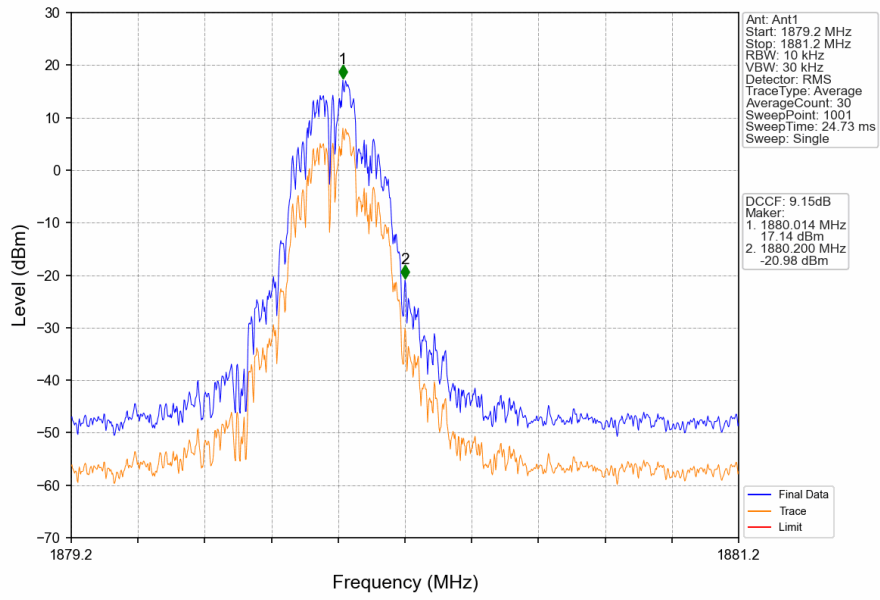
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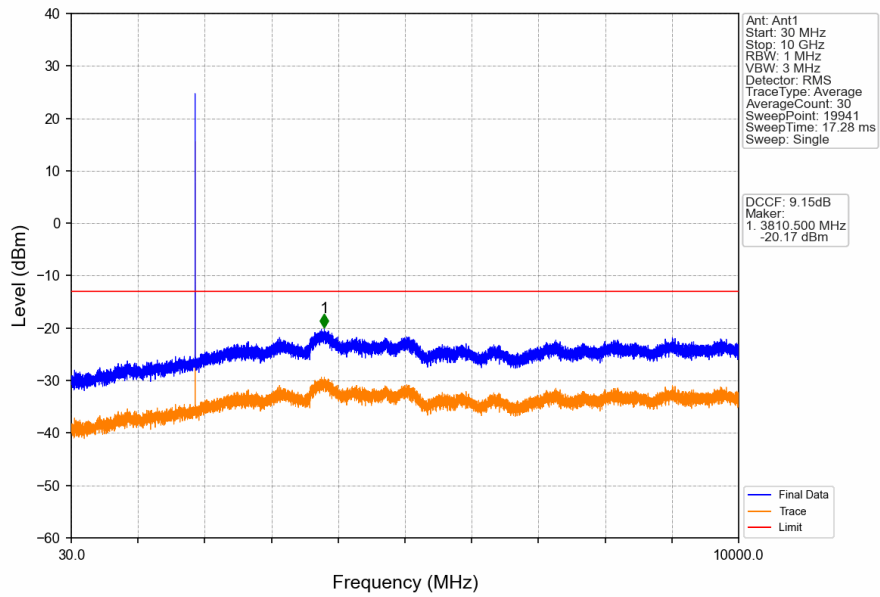
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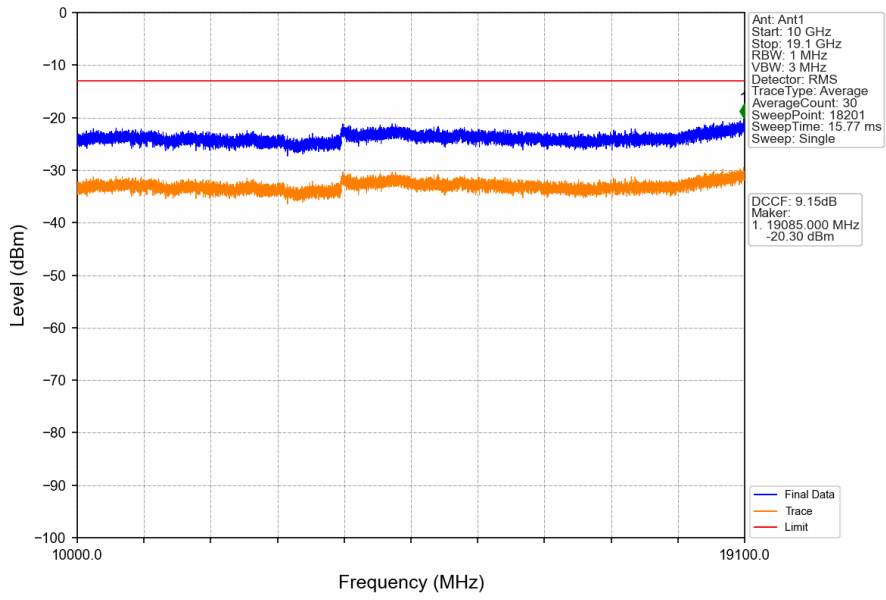
PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



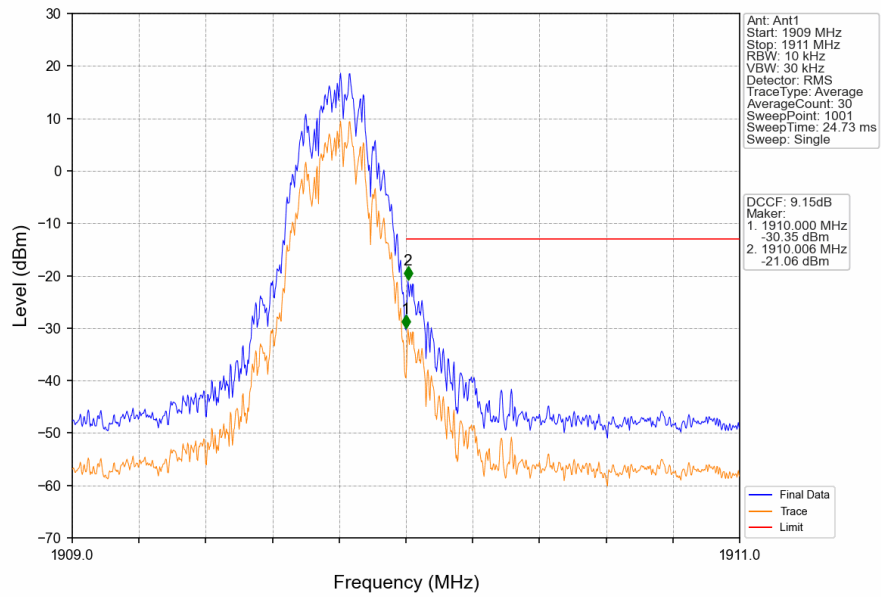
PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



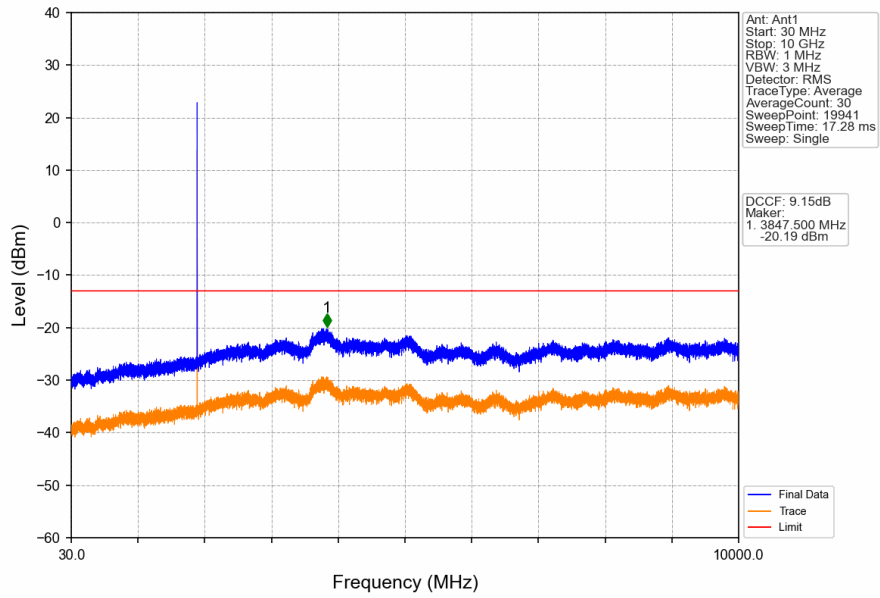
PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



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

