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	26.7	0.64	27.34	<=33.01	Pass
		2 TX Slots	1850.2	26.55	0.64	27.19	<=33.01	Pass
		3 TX Slots	1850.2	25.76	0.64	26.4	<=33.01	Pass
		4 TX Slots	1850.2	22.99	0.64	23.63	<=33.01	Pass
		1 TX Slot	1880	27.58	0.64	28.22	<=33.01	Pass
		2 TX Slots	1880	27.46	0.64	28.1	<=33.01	Pass
		3 TX Slots	1880	26.7	0.64	27.34	<=33.01	Pass
		4 TX Slots	1880	23.49	0.64	24.13	<=33.01	Pass
		1 TX Slot	1909.8	27.78	0.64	28.42	<=33.01	Pass
		2 TX Slots	1909.8	27.65	0.64	28.29	<=33.01	Pass
		3 TX Slots	1909.8	26.82	0.64	27.46	<=33.01	Pass
		4 TX Slots	1909.8	23.76	0.64	24.4	<=33.01	Pass
	EGPRS	1 TX Slot	1850.2	23.54	0.64	24.18	<=33.01	Pass
		2 TX Slots	1850.2	22.36	0.64	23	<=33.01	Pass
		3 TX Slots	1850.2	20.35	0.64	20.99	<=33.01	Pass
		4 TX Slots	1850.2	19.29	0.64	19.93	<=33.01	Pass
		1 TX Slot	1880	23.44	0.64	24.08	<=33.01	Pass
		2 TX Slots	1880	22.47	0.64	23.11	<=33.01	Pass
		3 TX Slots	1880	20.13	0.64	20.77	<=33.01	Pass
		4 TX Slots	1880	19.04	0.64	19.68	<=33.01	Pass
		1 TX Slot	1909.8	23.79	0.64	24.43	<=33.01	Pass
		2 TX Slots	1909.8	21.6	0.64	22.24	<=33.01	Pass
		3 TX Slots	1909.8	20.33	0.64	20.97	<=33.01	Pass
		4 TX Slots	1909.8	19.25	0.64	19.89	<=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	3.60	15.482	0.0084	-2.5 to 2.5	Pass
			3.80	11.429	0.0062	-2.5 to 2.5	Pass
			4.35	13.023	0.0070	-2.5 to 2.5	Pass
		-30	3.80	15.728	0.0085	-2.5 to 2.5	Pass
		-20	3.80	14.138	0.0076	-2.5 to 2.5	Pass
		-10	3.80	15.575	0.0084	-2.5 to 2.5	Pass
		0	3.80	18.656	0.0101	-2.5 to 2.5	Pass
		10	3.80	14.357	0.0078	-2.5 to 2.5	Pass

		30	3.80	17.121	0.0093	-2.5 to 2.5	Pass
		40	3.80	13.775	0.0074	-2.5 to 2.5	Pass
		50	3.80	16.406	0.0089	-2.5 to 2.5	Pass
	1880	20	3.60	20.784	0.0111	-2.5 to 2.5	Pass
			3.80	18.299	0.0097	-2.5 to 2.5	Pass
			4.35	21.055	0.0112	-2.5 to 2.5	Pass
		-30	3.80	16.021	0.0085	-2.5 to 2.5	Pass
		-20	3.80	19.789	0.0105	-2.5 to 2.5	Pass
		-10	3.80	19.442	0.0103	-2.5 to 2.5	Pass
		0	3.80	17.765	0.0094	-2.5 to 2.5	Pass
		10	3.80	18.149	0.0097	-2.5 to 2.5	Pass
		30	3.80	17.839	0.0095	-2.5 to 2.5	Pass
		40	3.80	18.422	0.0098	-2.5 to 2.5	Pass
		50	3.80	15.451	0.0082	-2.5 to 2.5	Pass
	1909.8	20	3.60	20.908	0.0109	-2.5 to 2.5	Pass
			3.80	20.702	0.0108	-2.5 to 2.5	Pass
			4.35	27.622	0.0145	-2.5 to 2.5	Pass
		-30	3.80	25.550	0.0134	-2.5 to 2.5	Pass
		-20	3.80	22.881	0.0120	-2.5 to 2.5	Pass
		-10	3.80	23.365	0.0122	-2.5 to 2.5	Pass
		0	3.80	18.707	0.0098	-2.5 to 2.5	Pass
		10	3.80	18.347	0.0096	-2.5 to 2.5	Pass
		30	3.80	21.505	0.0113	-2.5 to 2.5	Pass
		40	3.80	21.171	0.0111	-2.5 to 2.5	Pass
		50	3.80	20.313	0.0106	-2.5 to 2.5	Pass
EGPRS	1850.2	20	3.60	22.998	0.0124	-2.5 to 2.5	Pass
			3.80	21.647	0.0117	-2.5 to 2.5	Pass
			4.35	15.036	0.0081	-2.5 to 2.5	Pass
		-30	3.80	18.522	0.0100	-2.5 to 2.5	Pass
		-20	3.80	22.121	0.0120	-2.5 to 2.5	Pass
		-10	3.80	20.666	0.0112	-2.5 to 2.5	Pass
		0	3.80	17.633	0.0095	-2.5 to 2.5	Pass
		10	3.80	22.782	0.0123	-2.5 to 2.5	Pass
		30	3.80	20.308	0.0110	-2.5 to 2.5	Pass
		40	3.80	22.078	0.0119	-2.5 to 2.5	Pass
		50	3.80	21.563	0.0117	-2.5 to 2.5	Pass
	1880	20	3.60	23.545	0.0125	-2.5 to 2.5	Pass
			3.80	22.124	0.0118	-2.5 to 2.5	Pass
			4.35	22.268	0.0118	-2.5 to 2.5	Pass
		-30	3.80	21.647	0.0115	-2.5 to 2.5	Pass
		-20	3.80	26.046	0.0139	-2.5 to 2.5	Pass
		-10	3.80	22.573	0.0120	-2.5 to 2.5	Pass
		0	3.80	22.028	0.0117	-2.5 to 2.5	Pass
		10	3.80	25.535	0.0136	-2.5 to 2.5	Pass
		30	3.80	23.243	0.0124	-2.5 to 2.5	Pass
		40	3.80	23.385	0.0124	-2.5 to 2.5	Pass
		50	3.80	21.781	0.0116	-2.5 to 2.5	Pass
	1909.8	20	3.60	24.213	0.0127	-2.5 to 2.5	Pass
			3.80	20.619	0.0108	-2.5 to 2.5	Pass
			4.35	23.627	0.0124	-2.5 to 2.5	Pass
		-30	3.80	17.503	0.0092	-2.5 to 2.5	Pass
		-20	3.80	20.132	0.0105	-2.5 to 2.5	Pass
		-10	3.80	23.570	0.0123	-2.5 to 2.5	Pass
		0	3.80	20.798	0.0109	-2.5 to 2.5	Pass
		10	3.80	20.756	0.0109	-2.5 to 2.5	Pass
		30	3.80	22.121	0.0116	-2.5 to 2.5	Pass
		40	3.80	21.527	0.0113	-2.5 to 2.5	Pass

		50	3.80	21.007	0.0110	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

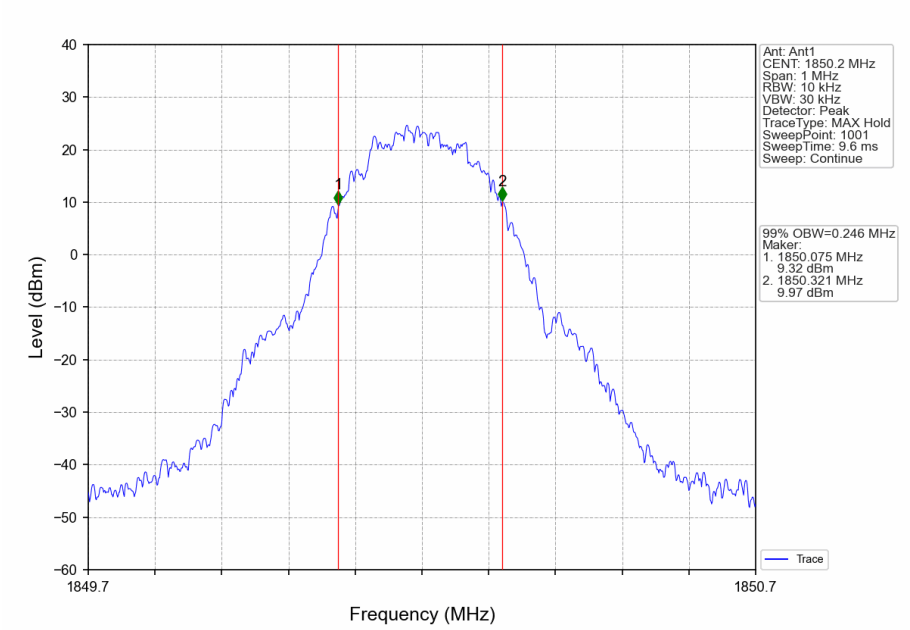
3.1 PCS1900_OBW

3.1.1 Test Result

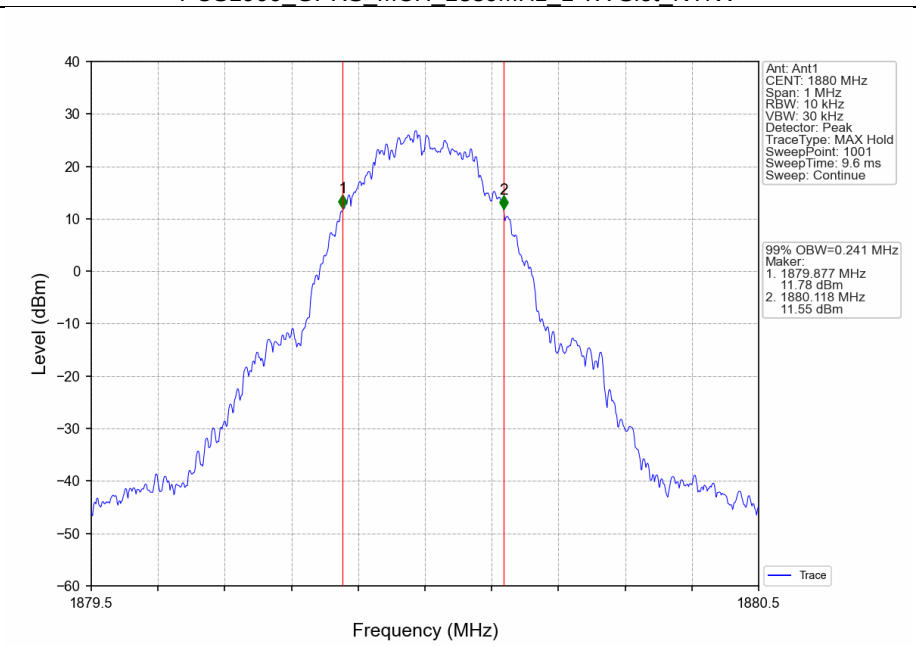
Band: PCS1900						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	0.246	/	Pass
			1880	0.241	/	Pass
			1909.8	0.249	/	Pass
	EGPRS	1 TX Slot	1850.2	0.247	/	Pass
			1880	0.246	/	Pass
			1909.8	0.239	/	Pass

3.1.2 Test Graph

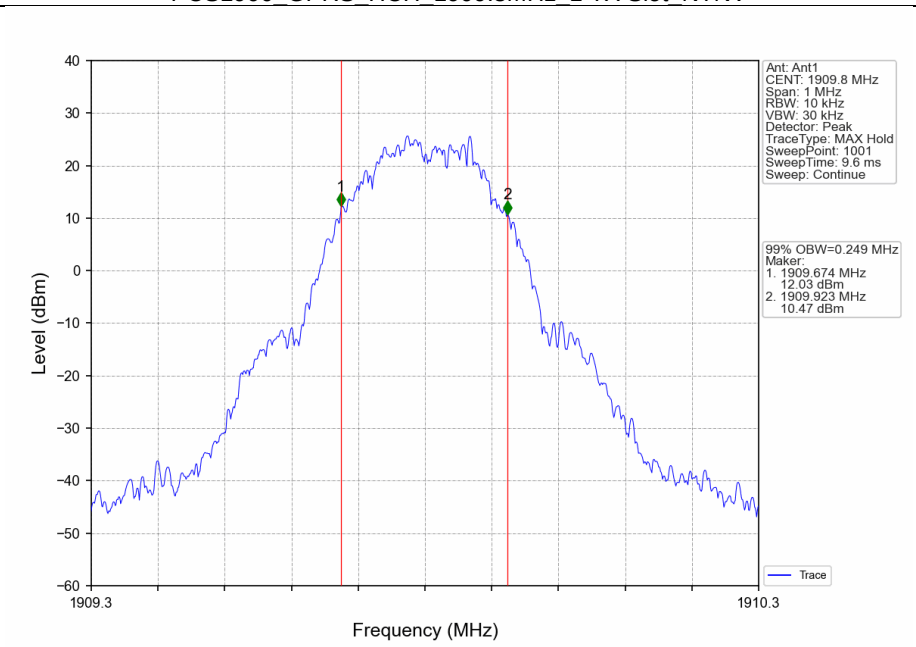
PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



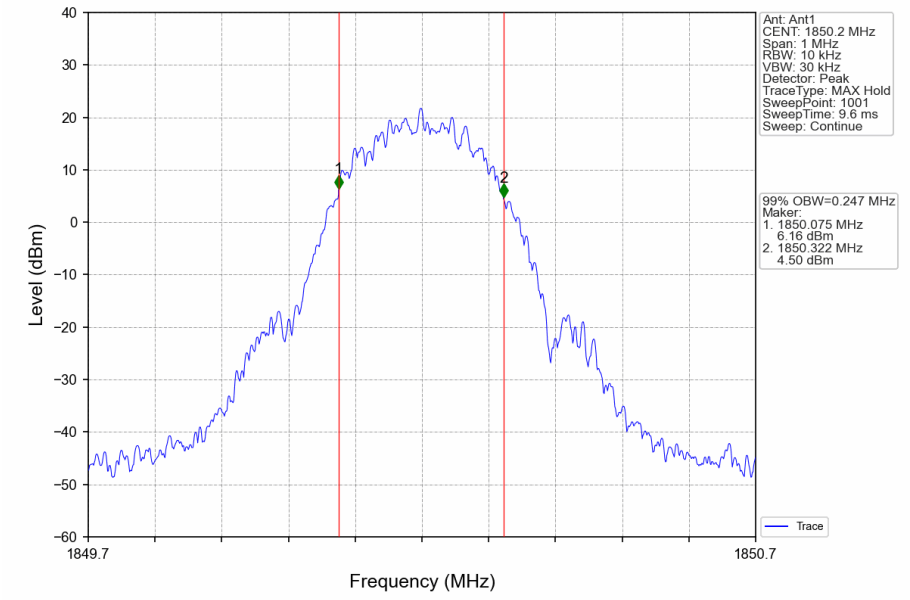
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



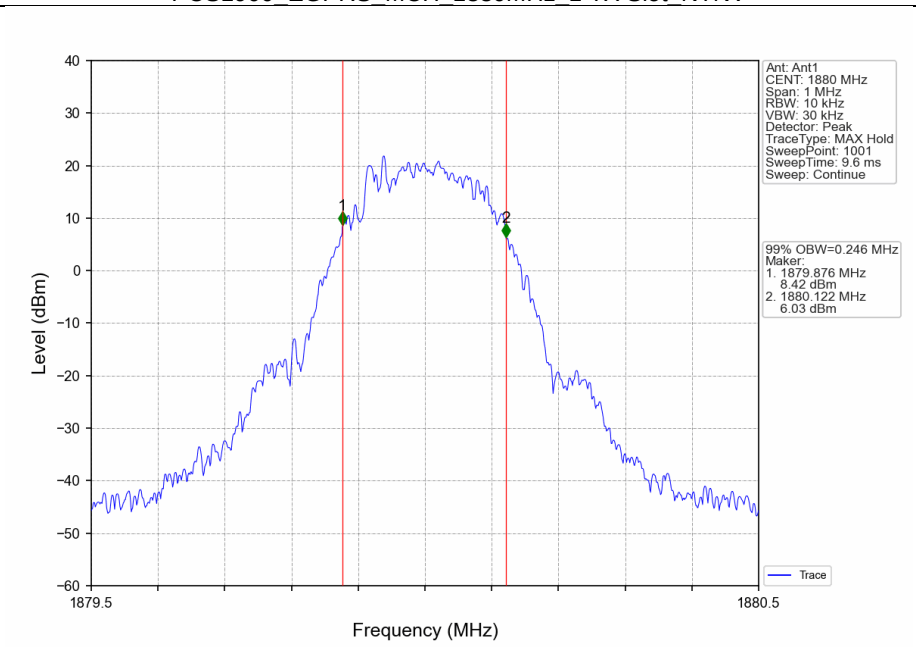
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



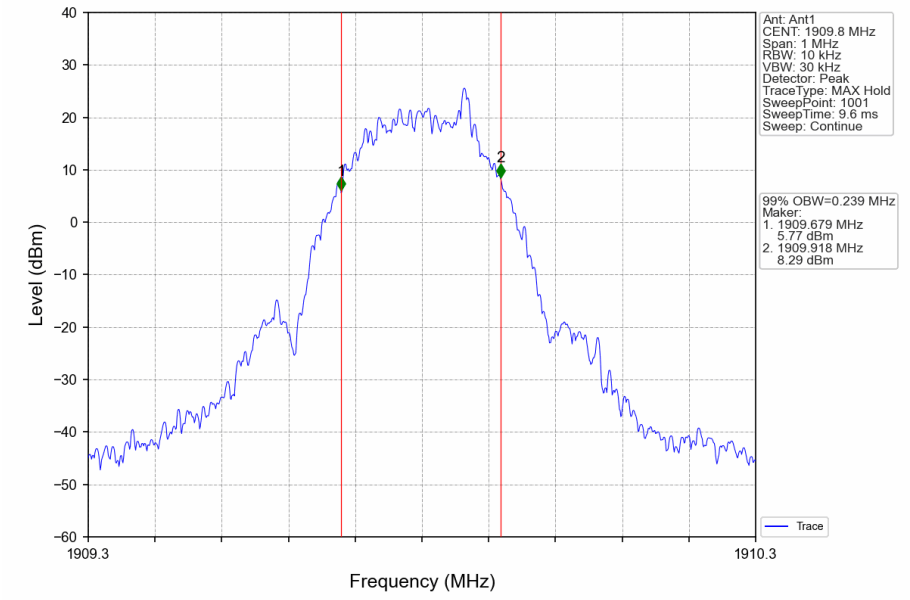
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



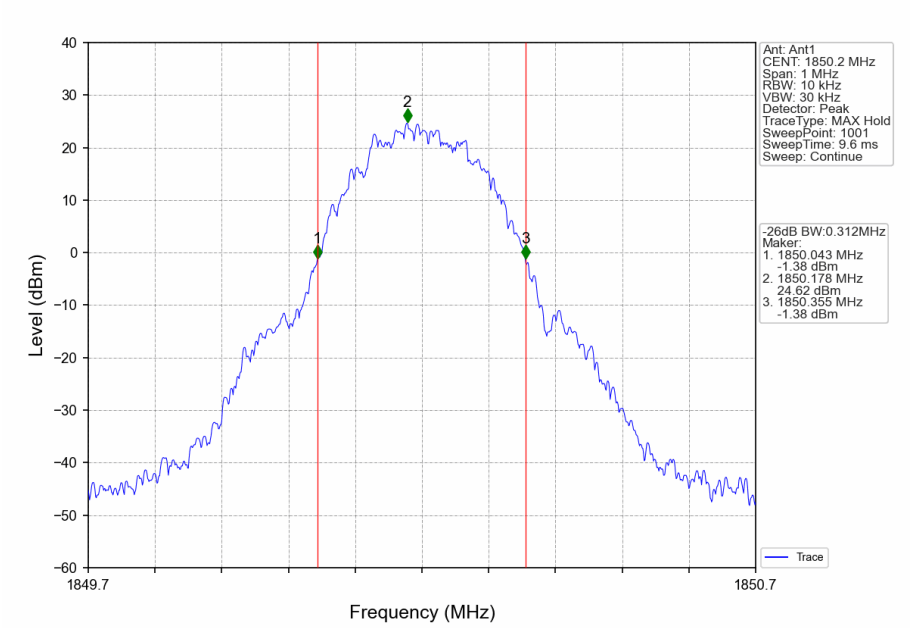
3.2 PCS1900_XDB

3.2.1 Test Result

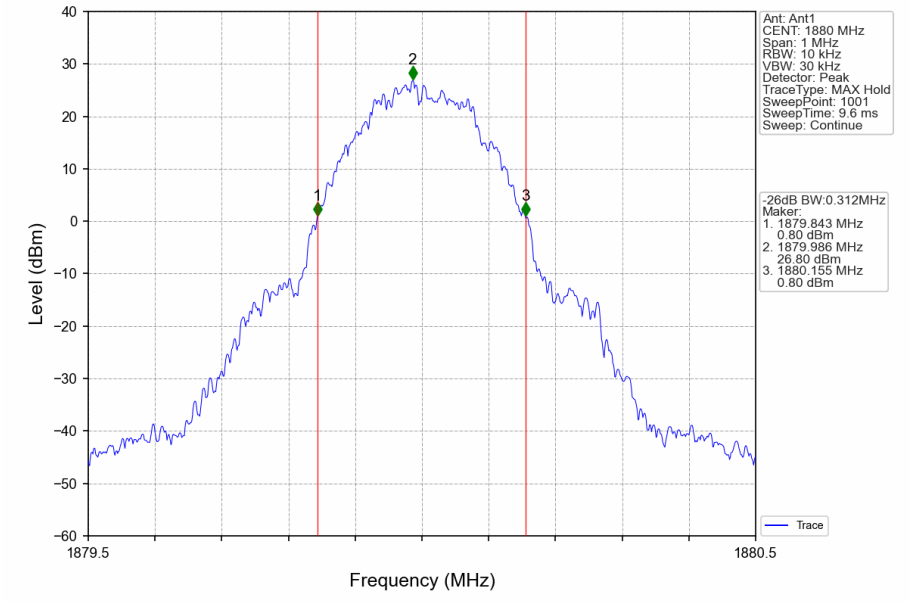
Band: PCS1900						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	0.312	/	Pass
			1880	0.312	/	Pass
			1909.8	0.316	/	Pass
	EGPRS	1 TX Slot	1850.2	0.312	/	Pass
			1880	0.317	/	Pass
			1909.8	0.292	/	Pass

3.2.2 Test Graph

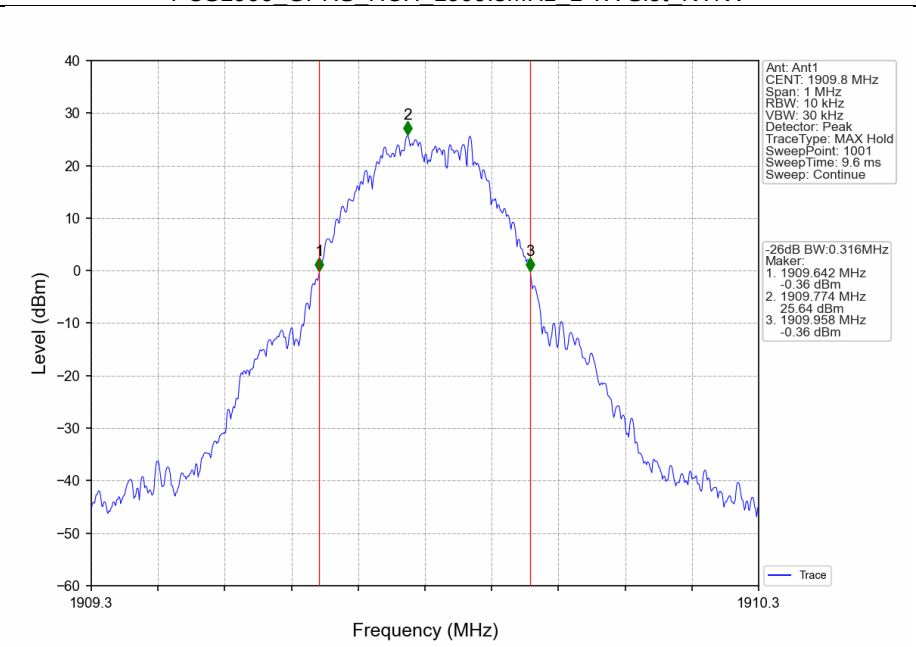
PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



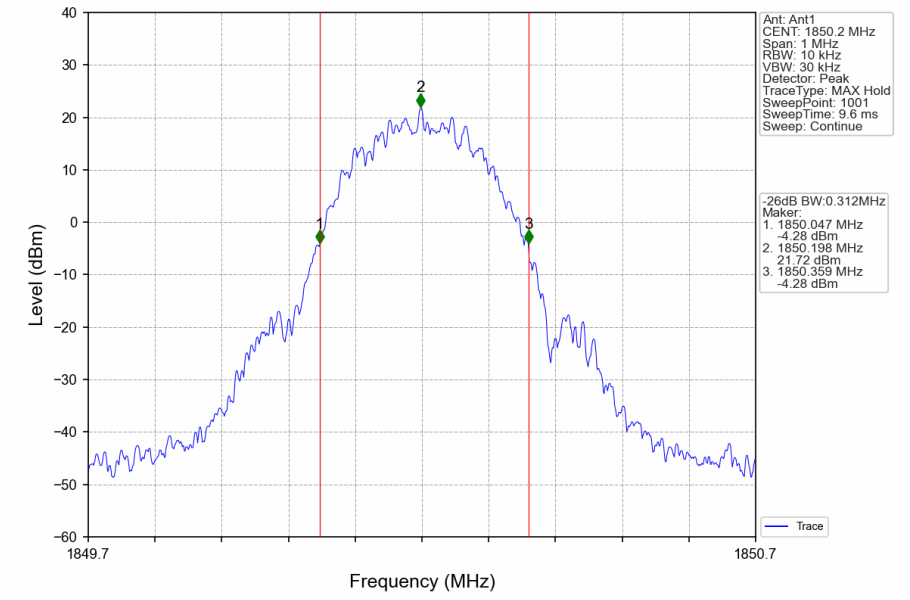
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



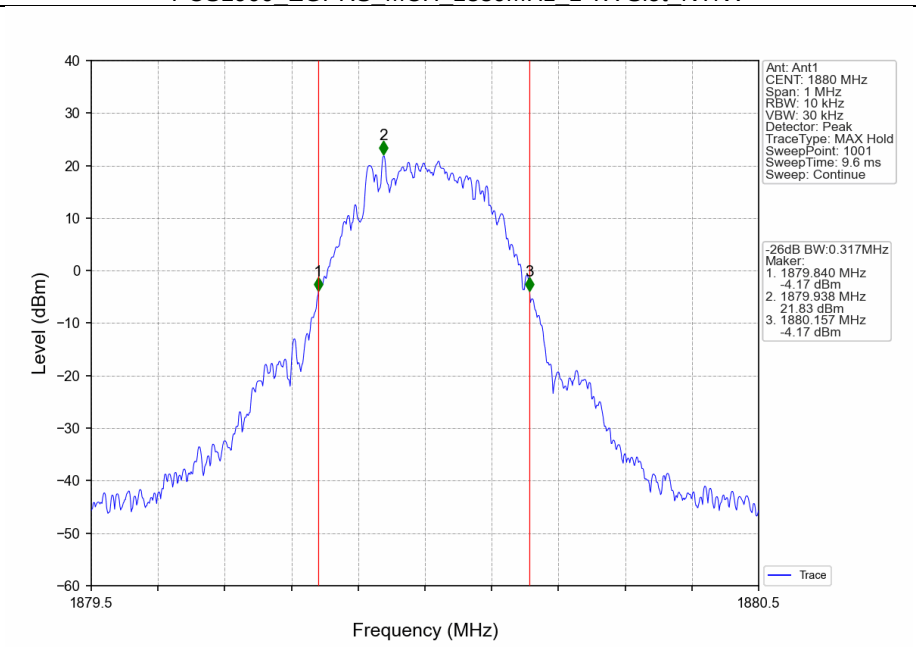
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



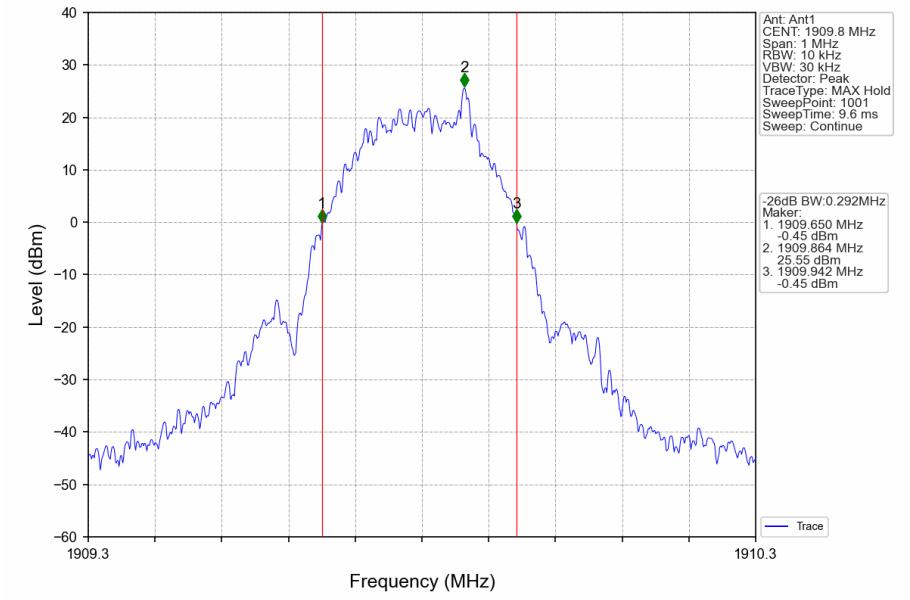
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



4. Peak-Average Ratio

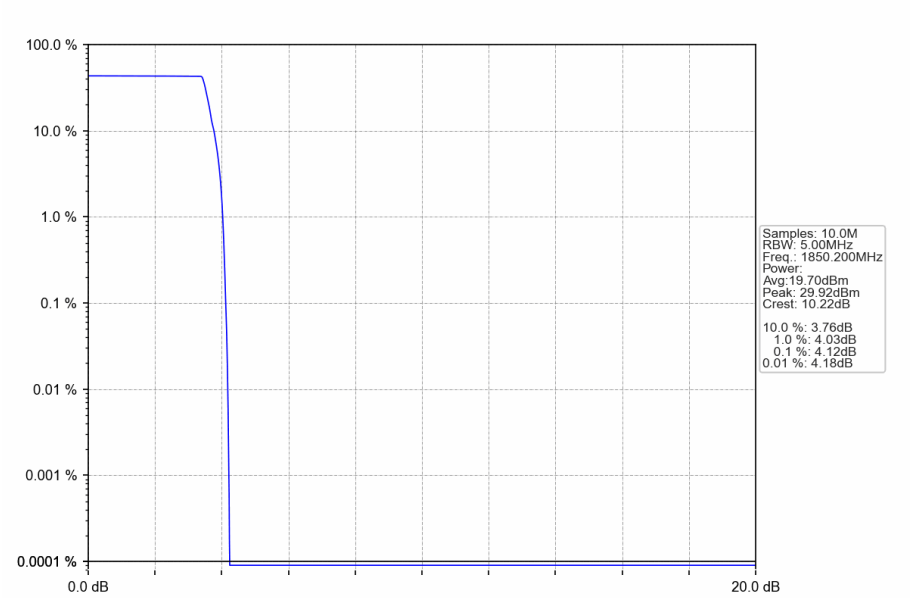
4.1 PCS1900

4.1.1 Test Result

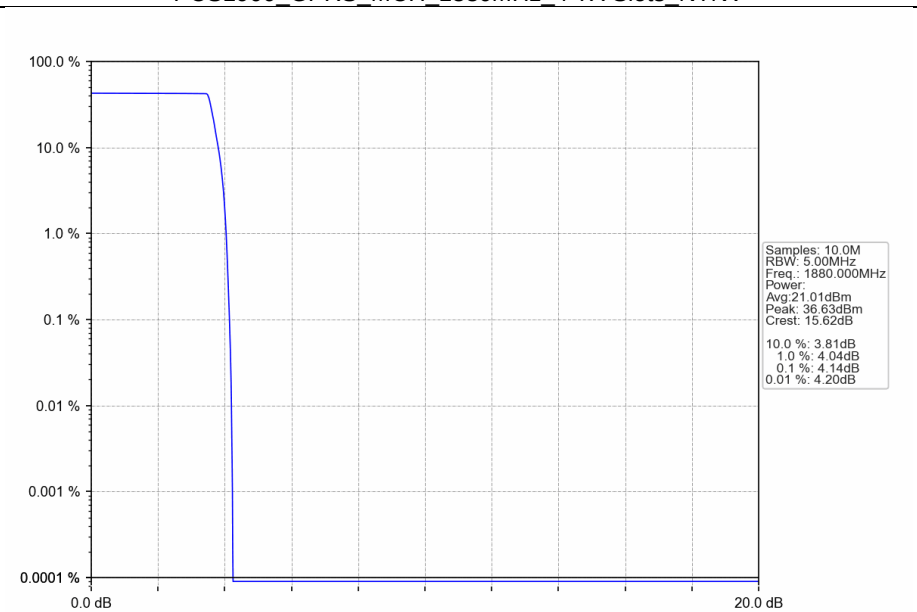
Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	1850.2	4.12	<=13	Pass
			1880	4.14	<=13	Pass
			1909.8	4.11	<=13	Pass
	EGPRS	4 TX Slots	1850.2	6.62	<=13	Pass
			1880	6.43	<=13	Pass
			1909.8	6.73	<=13	Pass

4.1.2 Test Graph

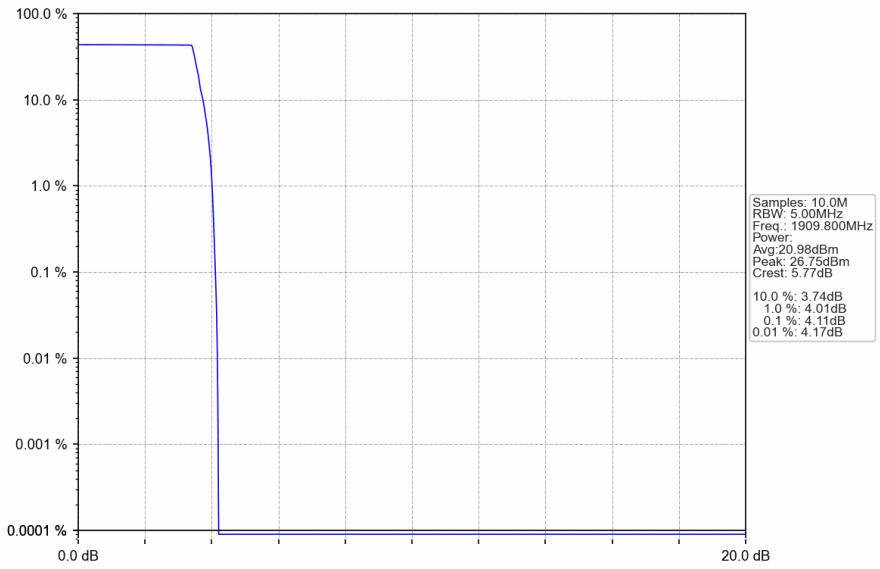
PCS1900_GPRS_LCH_1850.2MHz_4 TX Slots_NTNV



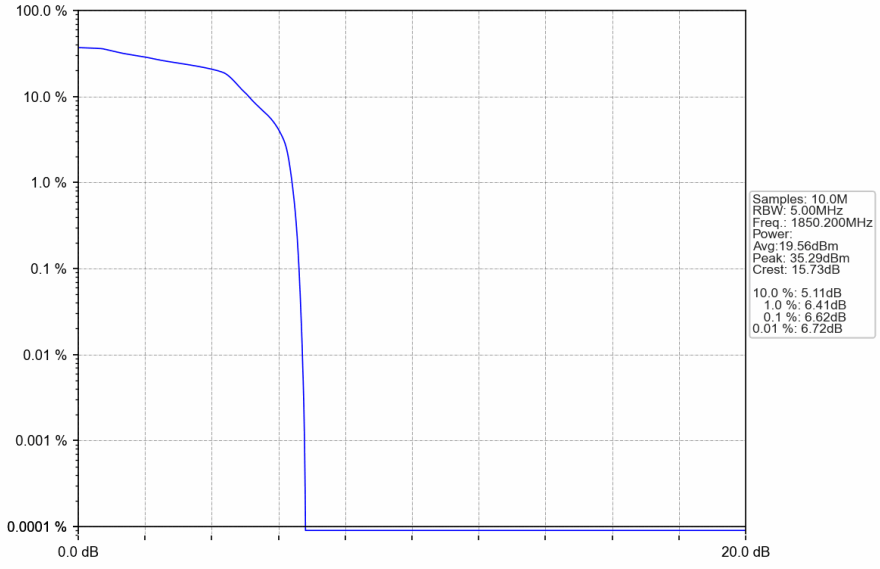
PCS1900_GPRS_MCH_1880MHz_4 TX Slots_NTNV



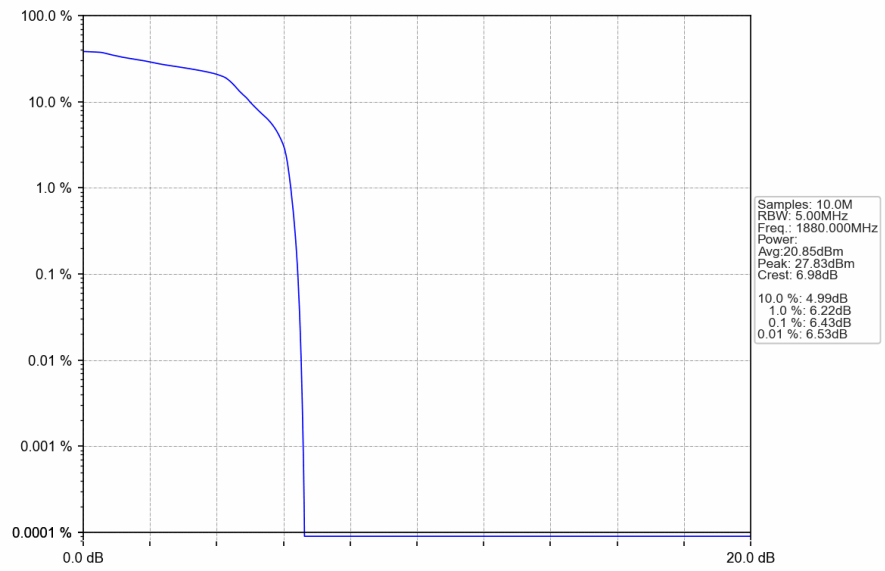
PCS1900_GPRS_HCH_1909.8MHz_4 TX Slots_NTNV



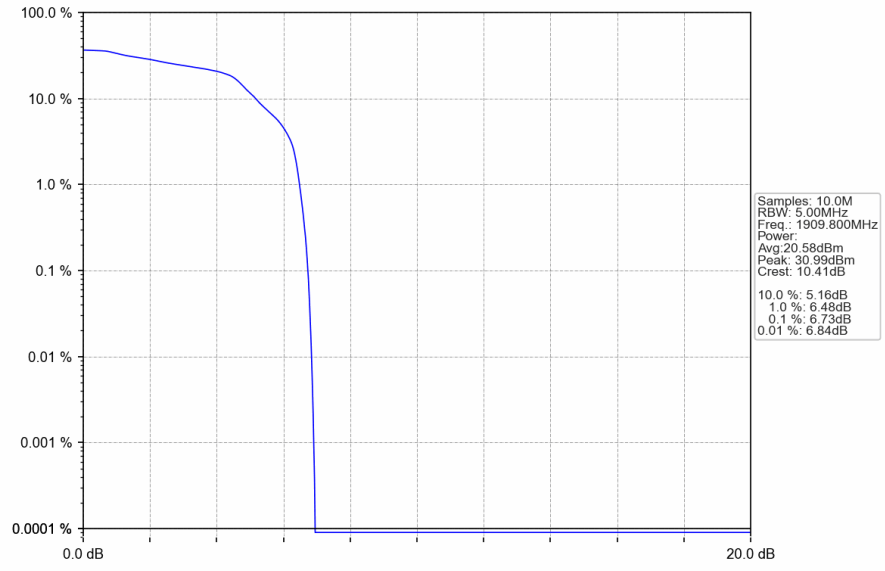
PCS1900_EGPRS_LCH_1850.2MHz_4 TX Slots_NTNV



PCS1900_EGPRS_MCH_1880MHz_4 TX Slots_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_4 TX Slots_NTNV



5. Spurious Emission

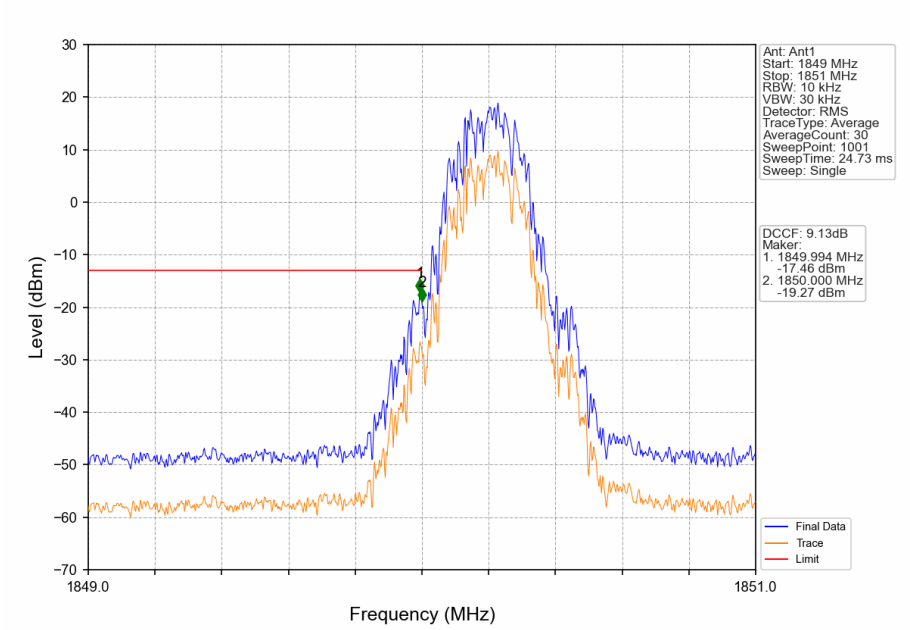
5.1 PCS1900

5.1.1 Test Result

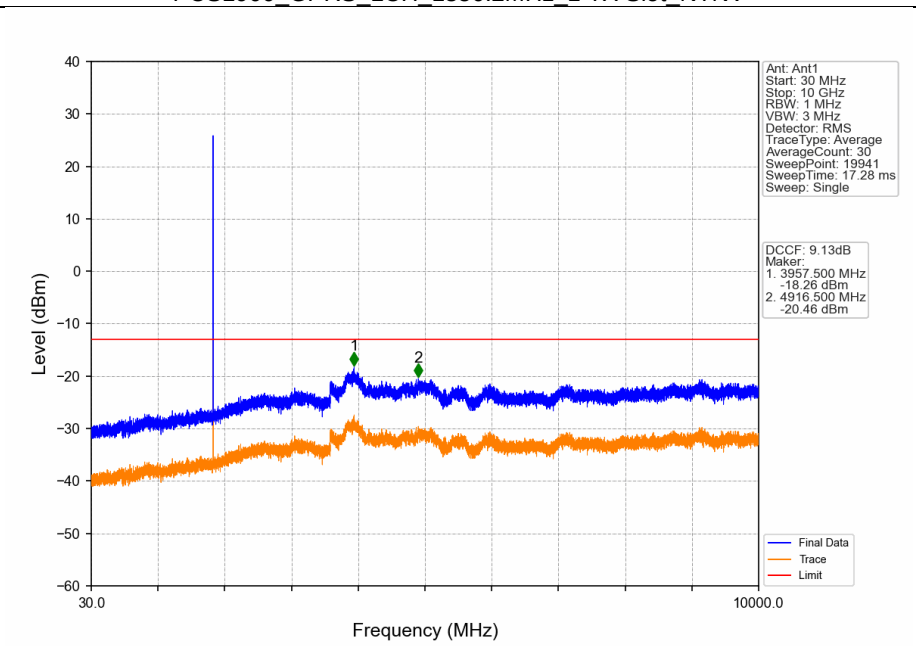
Band: PCS1900						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	Refer To Test Graph		Pass
			1880	Refer To Test Graph		Pass
			1909.8	Refer To Test Graph		Pass
	EGPRS	1 TX Slot	1850.2	Refer To Test Graph		Pass
			1880	Refer To Test Graph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

5.1.2 Test Graph

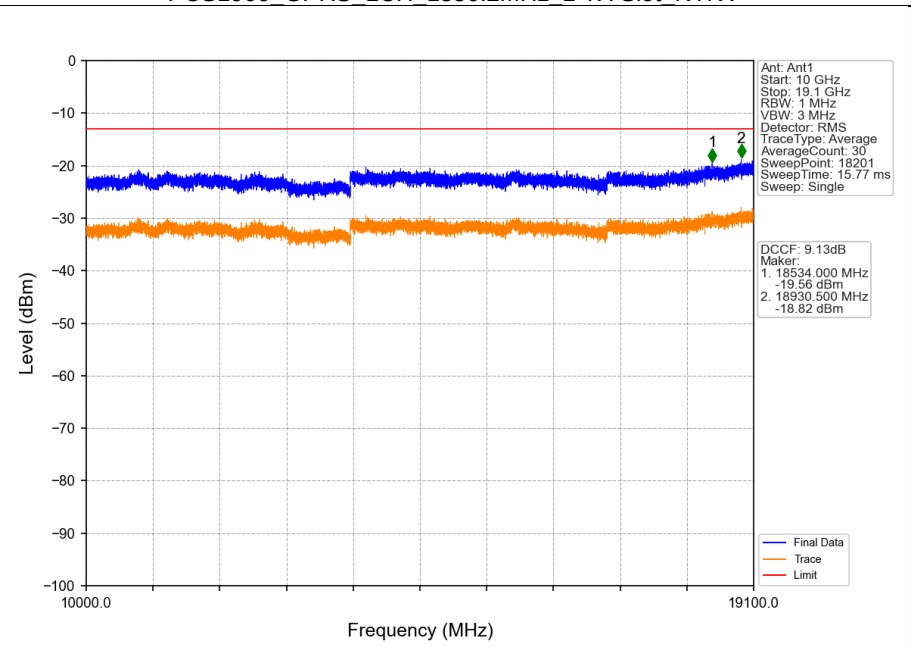
PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



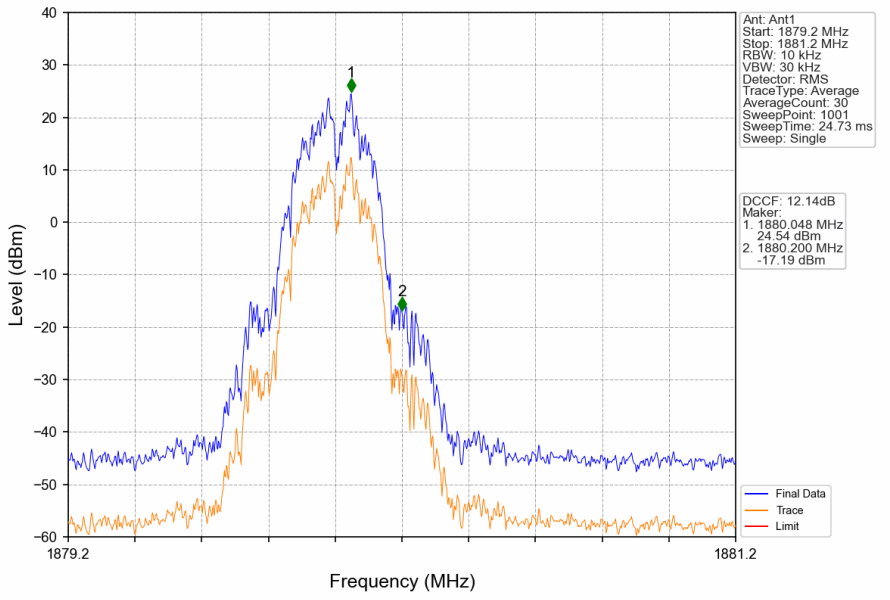
PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



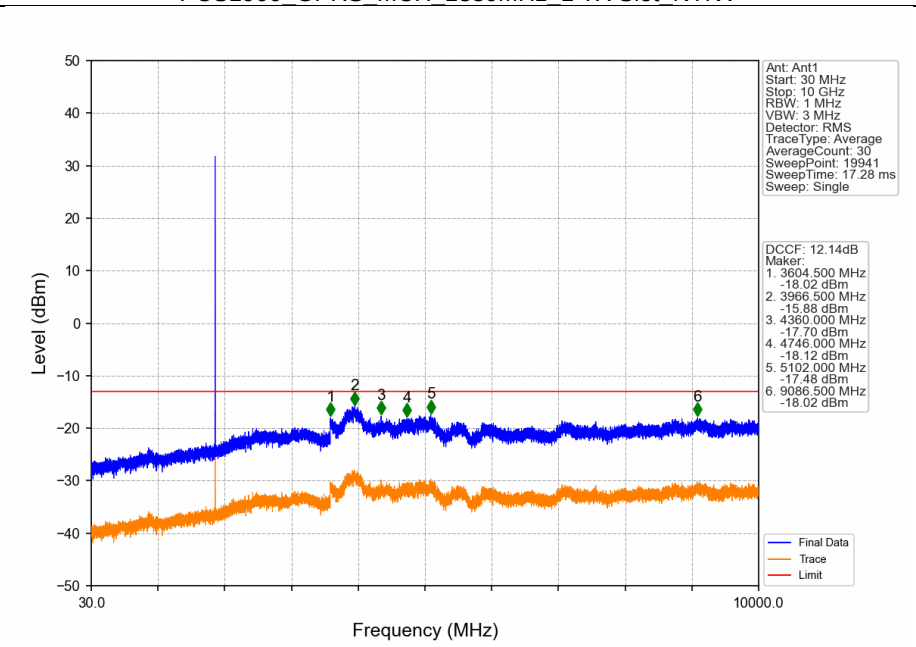
PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



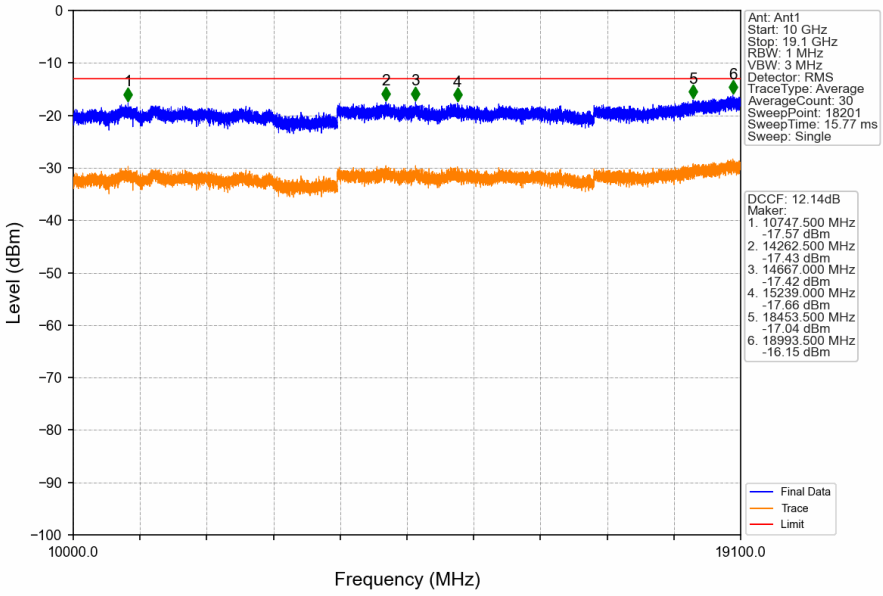
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



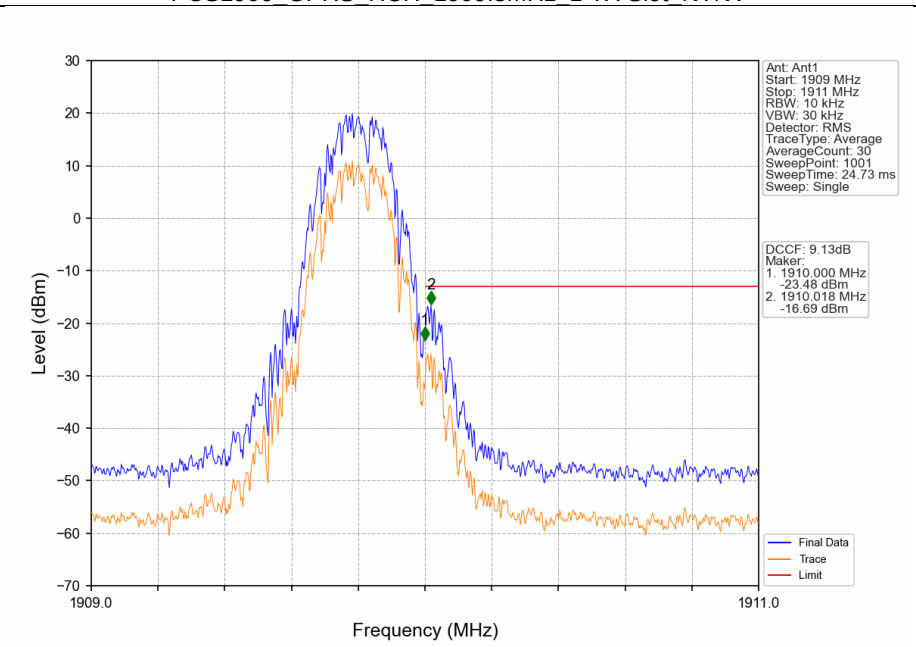
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



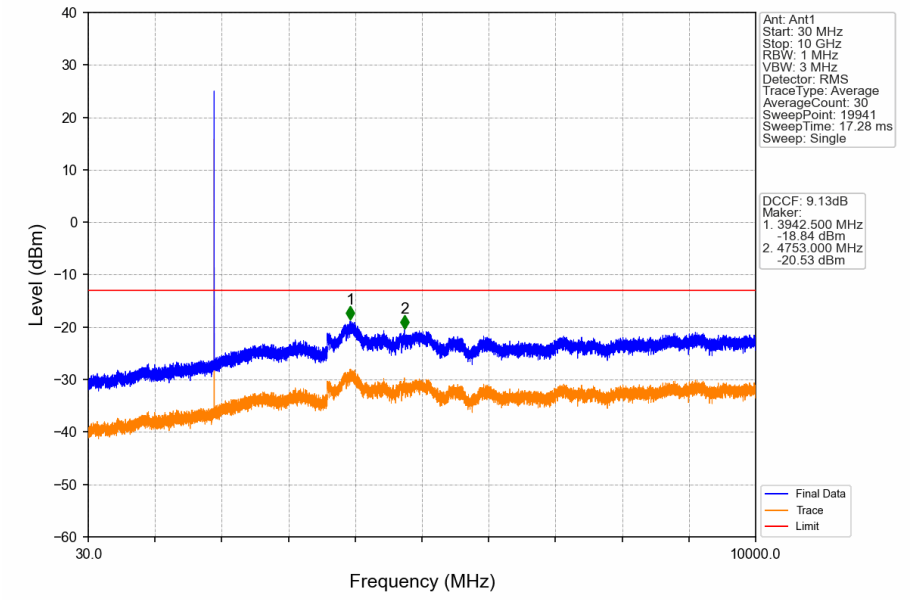
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



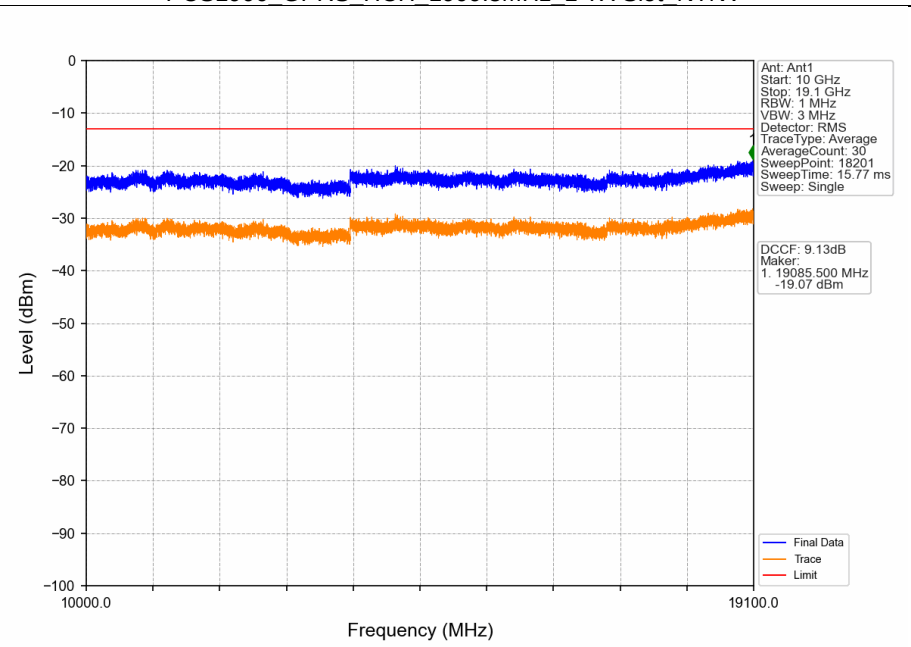
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



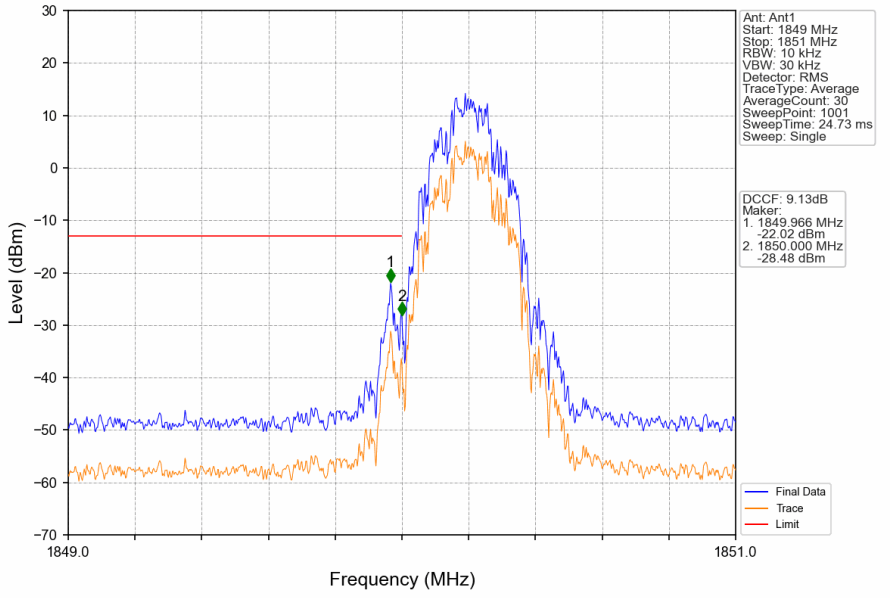
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



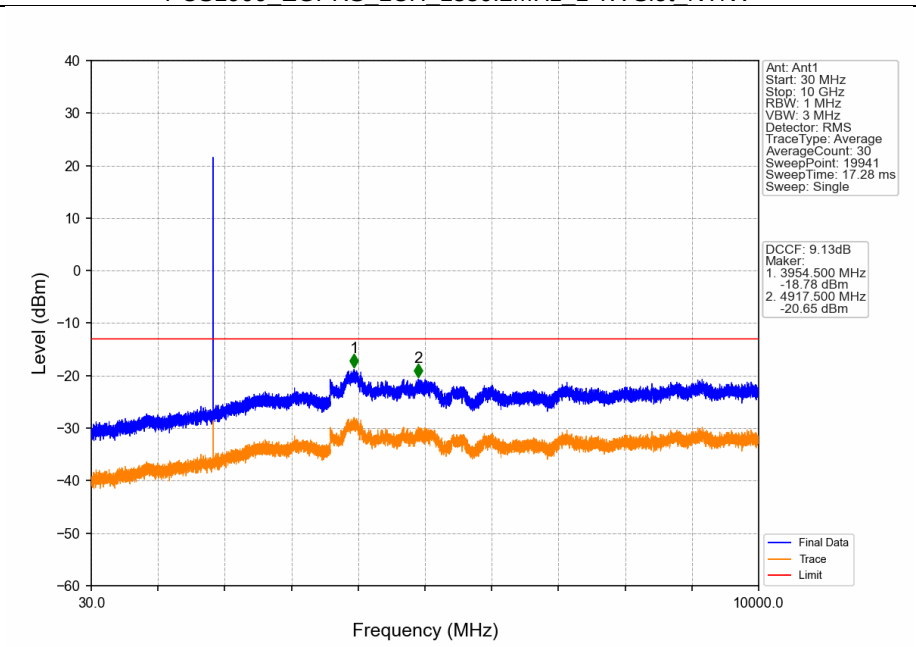
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



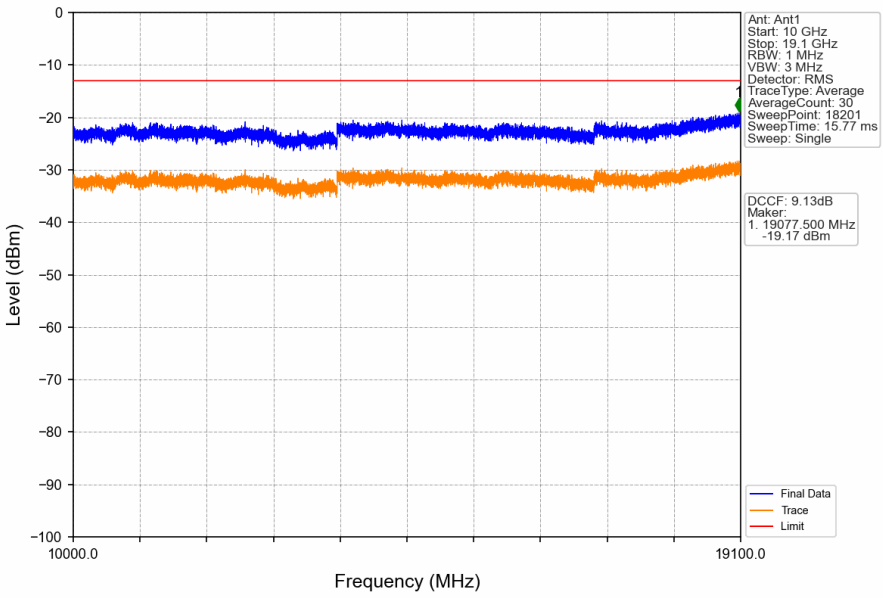
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



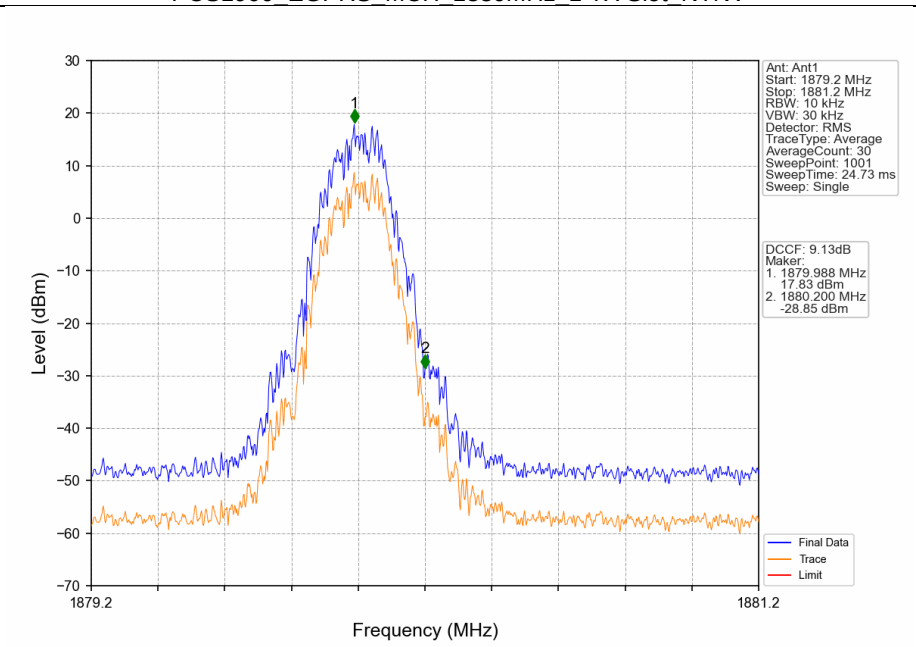
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



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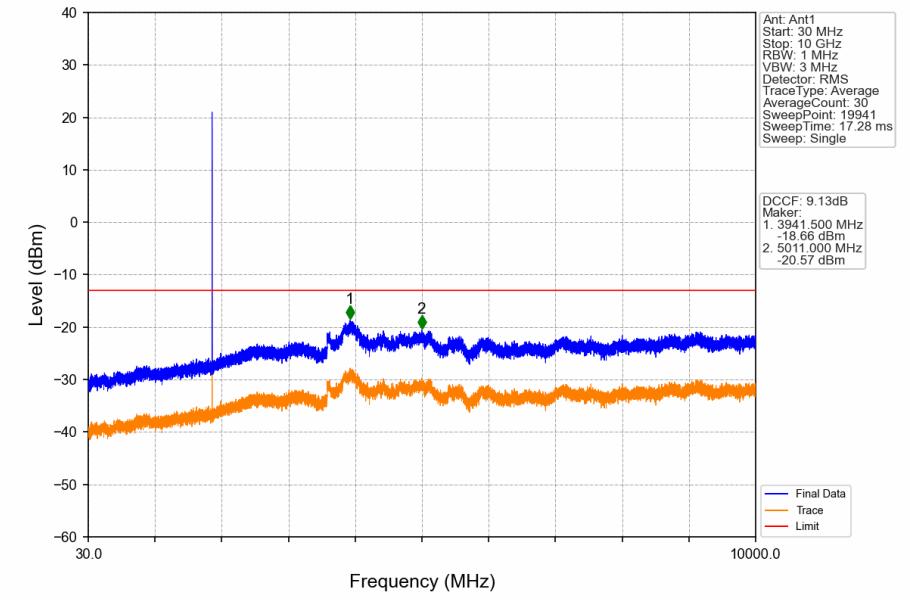
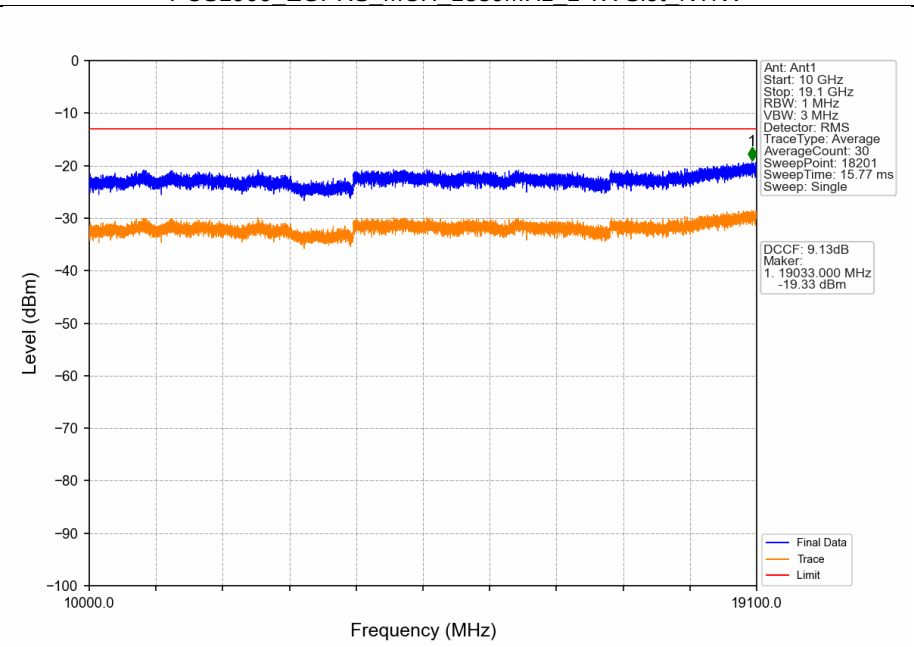
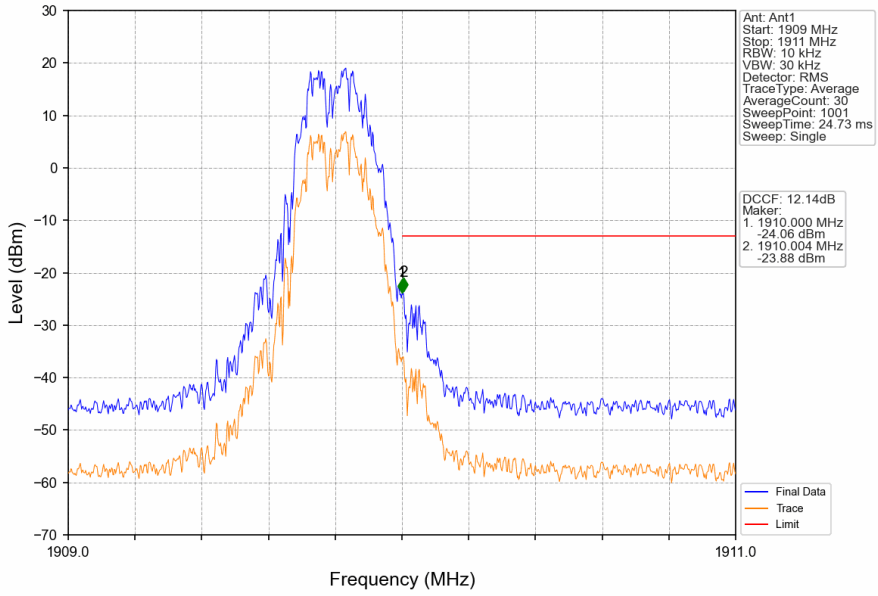


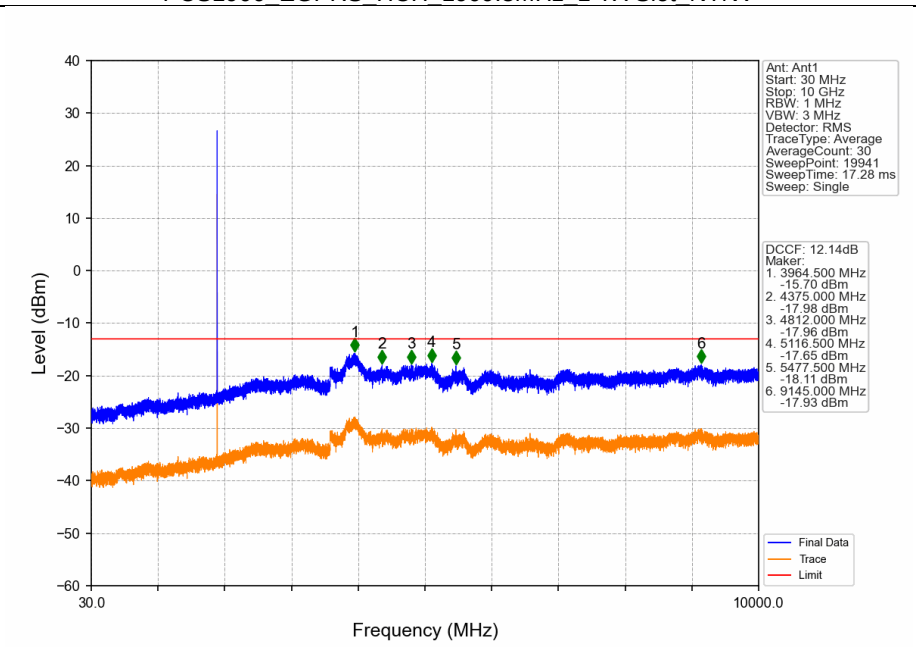
PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



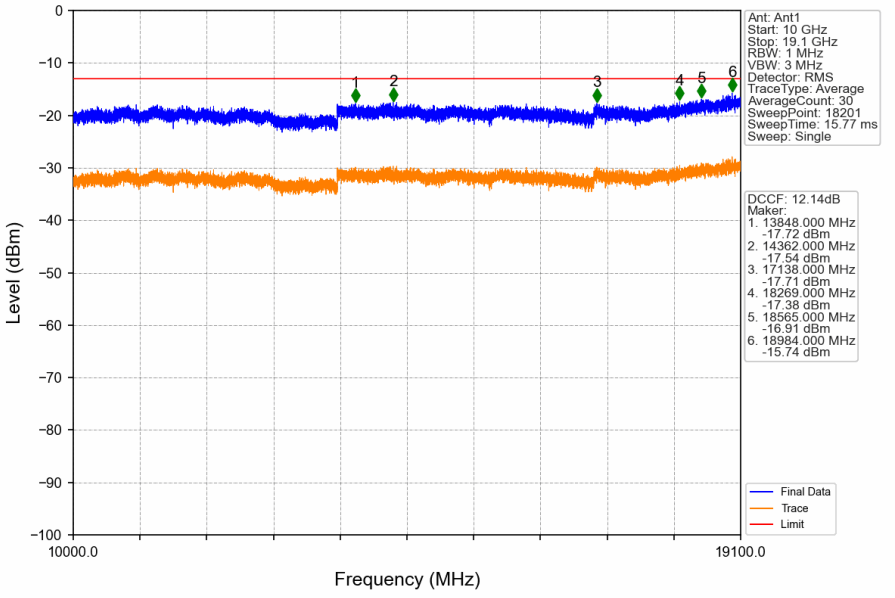
PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



6. Form731

6.1 Form731_Power

6.1.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
PCS1900	0.2	1850.2	1909.8	0.8472	0.0145	ppm	249KGXW	24E	29.28
PCS1900	0.2	1850.2	1909.8	0.3954	0.0139	ppm	247KG7W	24E	25.97

6.2 Form731_EIRP

6.2.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
PCS1900	0.2	1850.2	1909.8	0.8770	0.0145	ppm	249KGXW	24E	29.43
PCS1900	0.2	1850.2	1909.8	0.4093	0.0139	ppm	247KG7W	24E	26.12