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	27.19	0.58	27.77	<=33.01	Pass
		2 TX Slots	1850.2	26.54	0.58	27.12	<=33.01	Pass
		3 TX Slots	1850.2	24.79	0.58	25.37	<=33.01	Pass
		4 TX Slots	1850.2	23.63	0.58	24.21	<=33.01	Pass
		1 TX Slot	1880	27.18	0.58	27.76	<=33.01	Pass
		2 TX Slots	1880	26.56	0.58	27.14	<=33.01	Pass
		3 TX Slots	1880	24.75	0.58	25.33	<=33.01	Pass
		4 TX Slots	1880	23.57	0.58	24.15	<=33.01	Pass
		1 TX Slot	1909.8	26.99	0.58	27.57	<=33.01	Pass
		2 TX Slots	1909.8	26.35	0.58	26.93	<=33.01	Pass
		3 TX Slots	1909.8	24.49	0.58	25.07	<=33.01	Pass
		4 TX Slots	1909.8	23.30	0.58	23.88	<=33.01	Pass
	EGPRS	1 TX Slot	1850.2	18.57	0.58	19.15	<=33.01	Pass
		2 TX Slots	1850.2	23.51	0.58	24.09	<=33.01	Pass
		3 TX Slots	1850.2	21.46	0.58	22.04	<=33.01	Pass
		4 TX Slots	1850.2	20.06	0.58	20.64	<=33.01	Pass
		1 TX Slot	1880	24.35	0.58	24.93	<=33.01	Pass
		2 TX Slots	1880	23.72	0.58	24.30	<=33.01	Pass
		3 TX Slots	1880	21.56	0.58	22.14	<=33.01	Pass
		4 TX Slots	1880	20.03	0.58	20.61	<=33.01	Pass
		1 TX Slot	1909.8	24.39	0.58	24.97	<=33.01	Pass
		2 TX Slots	1909.8	24.16	0.58	24.74	<=33.01	Pass
		3 TX Slots	1909.8	21.57	0.58	22.15	<=33.01	Pass
		4 TX Slots	1909.8	20.01	0.58	20.59	<=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	3.27	20.598	0.0111	-2.5 to 2.5	Pass
			3.85	20.695	0.0112	-2.5 to 2.5	Pass
			4.43	16.724	0.0090	-2.5 to 2.5	Pass
		-30	3.85	16.272	0.0088	-2.5 to 2.5	Pass
		-20	3.85	13.205	0.0071	-2.5 to 2.5	Pass
		-10	3.85	22.245	0.0120	-2.5 to 2.5	Pass

		0	3.85	15.820	0.0086	-2.5 to 2.5	Pass
		10	3.85	11.558	0.0062	-2.5 to 2.5	Pass
		30	3.85	17.402	0.0094	-2.5 to 2.5	Pass
		40	3.85	18.726	0.0101	-2.5 to 2.5	Pass
		50	3.85	12.688	0.0069	-2.5 to 2.5	Pass
	1880	20	3.27	13.754	0.0073	-2.5 to 2.5	Pass
			3.85	18.177	0.0097	-2.5 to 2.5	Pass
			4.43	18.758	0.0100	-2.5 to 2.5	Pass
		-30	3.85	19.985	0.0106	-2.5 to 2.5	Pass
		-20	3.85	16.014	0.0085	-2.5 to 2.5	Pass
		-10	3.85	16.498	0.0088	-2.5 to 2.5	Pass
		0	3.85	20.857	0.0111	-2.5 to 2.5	Pass
		10	3.85	20.631	0.0110	-2.5 to 2.5	Pass
		30	3.85	17.886	0.0095	-2.5 to 2.5	Pass
		40	3.85	12.850	0.0068	-2.5 to 2.5	Pass
		50	3.85	13.237	0.0070	-2.5 to 2.5	Pass
	1909.8	20	3.27	10.009	0.0052	-2.5 to 2.5	Pass
			3.85	11.203	0.0059	-2.5 to 2.5	Pass
			4.43	16.466	0.0086	-2.5 to 2.5	Pass
		-30	3.85	8.943	0.0047	-2.5 to 2.5	Pass
		-20	3.85	13.689	0.0072	-2.5 to 2.5	Pass
		-10	3.85	9.105	0.0048	-2.5 to 2.5	Pass
		0	3.85	10.848	0.0057	-2.5 to 2.5	Pass
		10	3.85	12.139	0.0064	-2.5 to 2.5	Pass
		30	3.85	9.589	0.0050	-2.5 to 2.5	Pass
		40	3.85	17.015	0.0089	-2.5 to 2.5	Pass
		50	3.85	11.332	0.0059	-2.5 to 2.5	Pass
EGPRS	1850.2	20	3.27	15.917	0.0086	-2.5 to 2.5	Pass
			3.85	12.430	0.0067	-2.5 to 2.5	Pass
			4.43	13.076	0.0071	-2.5 to 2.5	Pass
		-30	3.85	9.686	0.0052	-2.5 to 2.5	Pass
		-20	3.85	12.979	0.0070	-2.5 to 2.5	Pass
		-10	3.85	13.173	0.0071	-2.5 to 2.5	Pass
		0	3.85	12.753	0.0069	-2.5 to 2.5	Pass
		10	3.85	13.043	0.0070	-2.5 to 2.5	Pass
		30	3.85	13.011	0.0070	-2.5 to 2.5	Pass
		40	3.85	13.334	0.0072	-2.5 to 2.5	Pass
		50	3.85	14.012	0.0076	-2.5 to 2.5	Pass
	1880	20	3.27	19.081	0.0101	-2.5 to 2.5	Pass
			3.85	16.950	0.0090	-2.5 to 2.5	Pass
			4.43	14.948	0.0080	-2.5 to 2.5	Pass
		-30	3.85	19.533	0.0104	-2.5 to 2.5	Pass
		-20	3.85	15.885	0.0084	-2.5 to 2.5	Pass
		-10	3.85	18.532	0.0099	-2.5 to 2.5	Pass
		0	3.85	15.949	0.0085	-2.5 to 2.5	Pass
		10	3.85	17.402	0.0093	-2.5 to 2.5	Pass
		30	3.85	18.306	0.0097	-2.5 to 2.5	Pass
		40	3.85	21.050	0.0112	-2.5 to 2.5	Pass
		50	3.85	20.146	0.0107	-2.5 to 2.5	Pass
	1909.8	20	3.27	22.342	0.0117	-2.5 to 2.5	Pass
			3.85	17.467	0.0091	-2.5 to 2.5	Pass
			4.43	16.175	0.0085	-2.5 to 2.5	Pass
		-30	3.85	16.401	0.0086	-2.5 to 2.5	Pass
		-20	3.85	19.501	0.0102	-2.5 to 2.5	Pass

		-10	3.85	22.277	0.0117	-2.5 to 2.5	Pass
		0	3.85	14.948	0.0078	-2.5 to 2.5	Pass
		10	3.85	14.464	0.0076	-2.5 to 2.5	Pass
		30	3.85	18.048	0.0095	-2.5 to 2.5	Pass
		40	3.85	18.145	0.0095	-2.5 to 2.5	Pass
		50	3.85	20.534	0.0108	-2.5 to 2.5	Pass

3. Modulation Characteristics

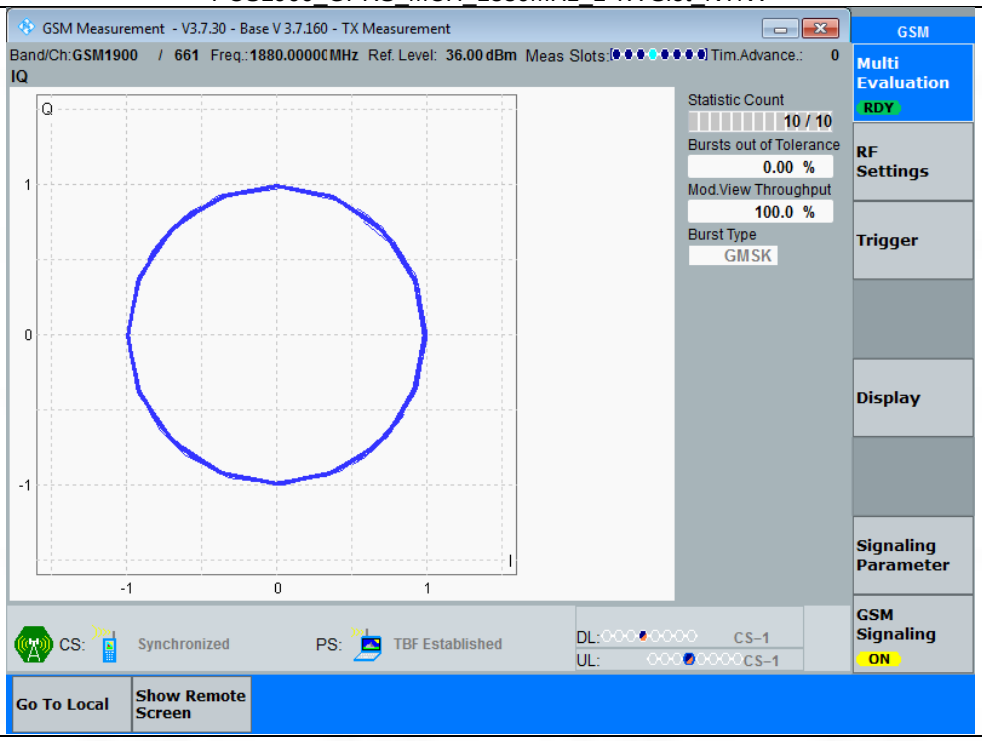
3.1 PCS1900

3.1.1 Test Result

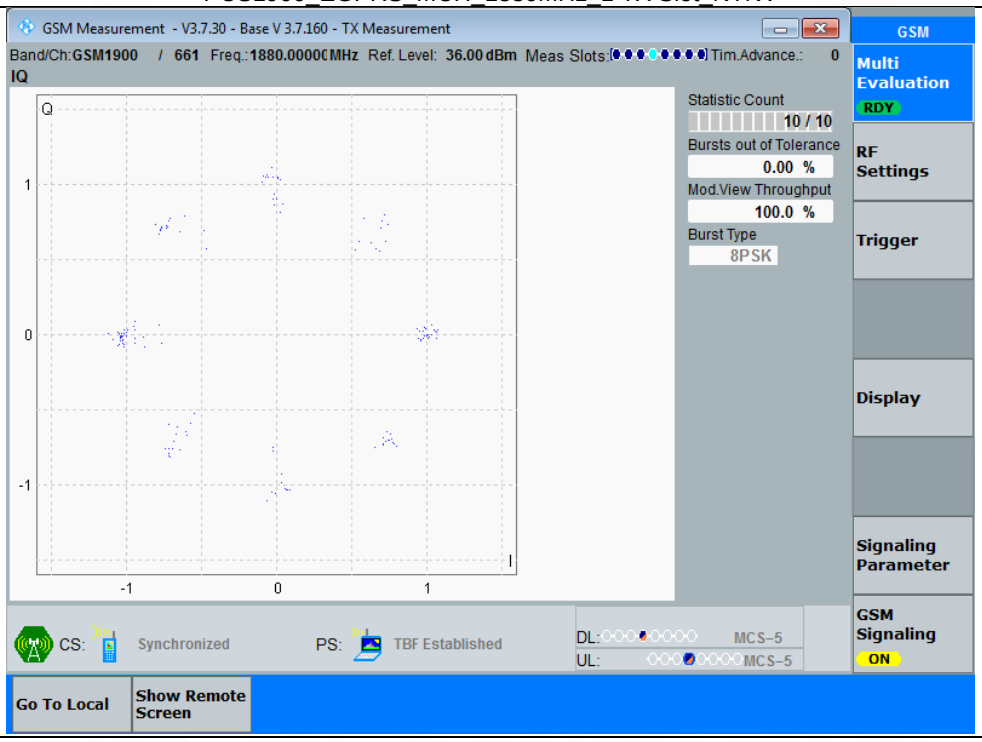
Band: PCS1900						
ENV	Mode		Frequency (MHz)	Modulation Characteristics		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1880	Refer To Test Graph		Pass
	EGPRS	1 TX Slot	1880	Refer To Test Graph		Pass

3.1.2 Test Graph

PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



4. 99% & 26dB Bandwidth

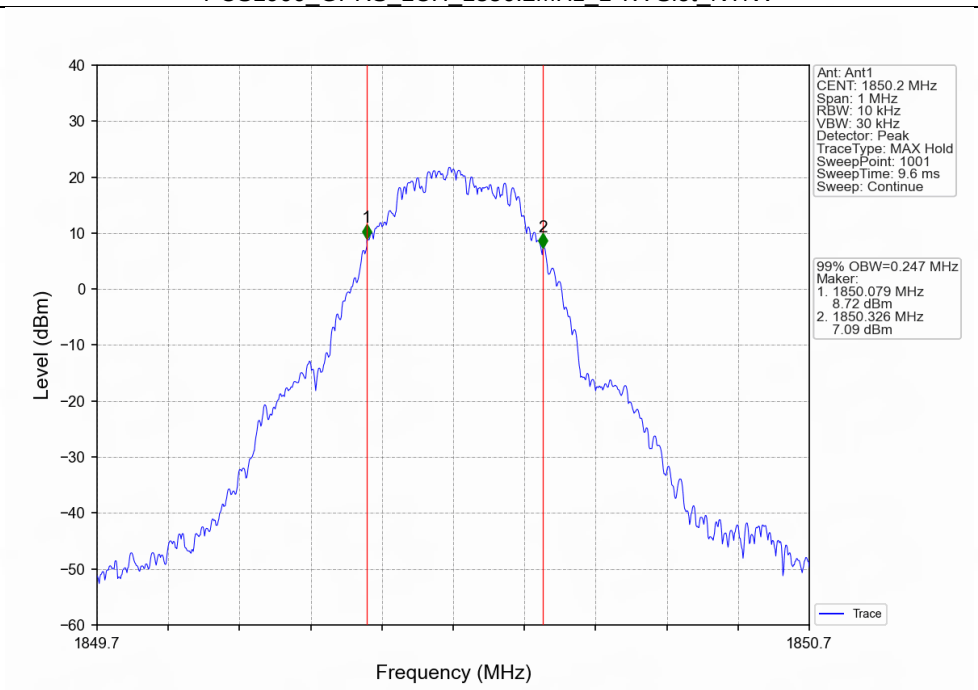
4.1 PCS1900_OBW

4.1.1 Test Result

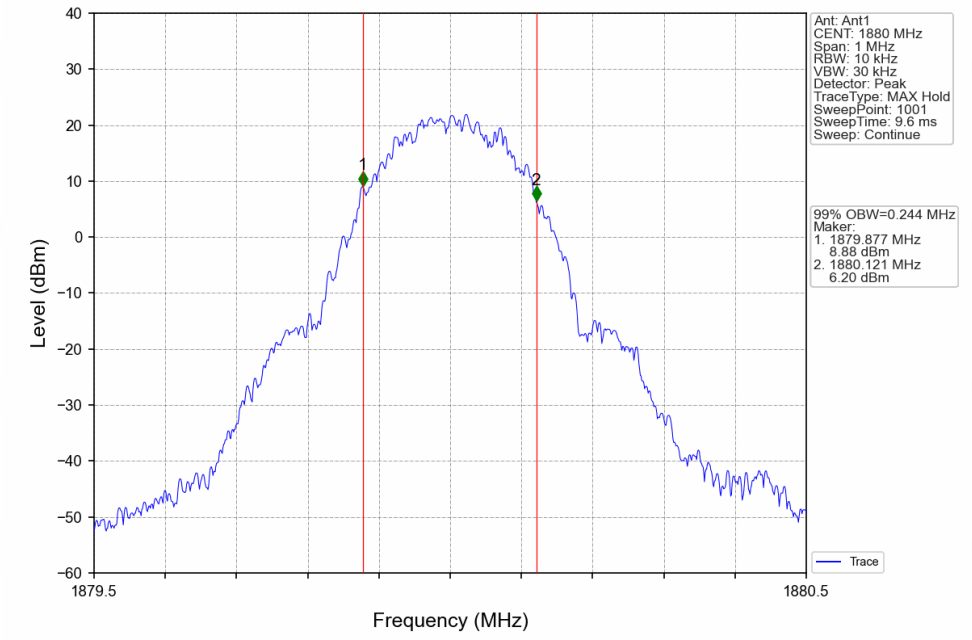
Band: PCS1900					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GPRS	1 TX Slot	1850.2	0.247	Pass
			1880	0.244	Pass
			1909.8	0.249	Pass
	EGPRS	1 TX Slot	1850.2	0.260	Pass
			1880	0.257	Pass
			1909.8	0.262	Pass

4.1.2 Test Graph

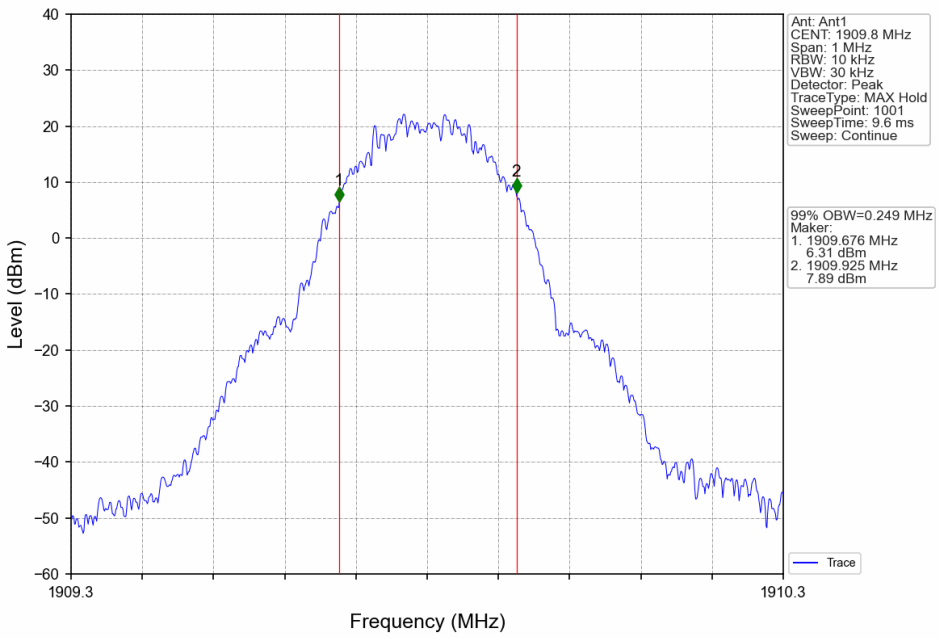
PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



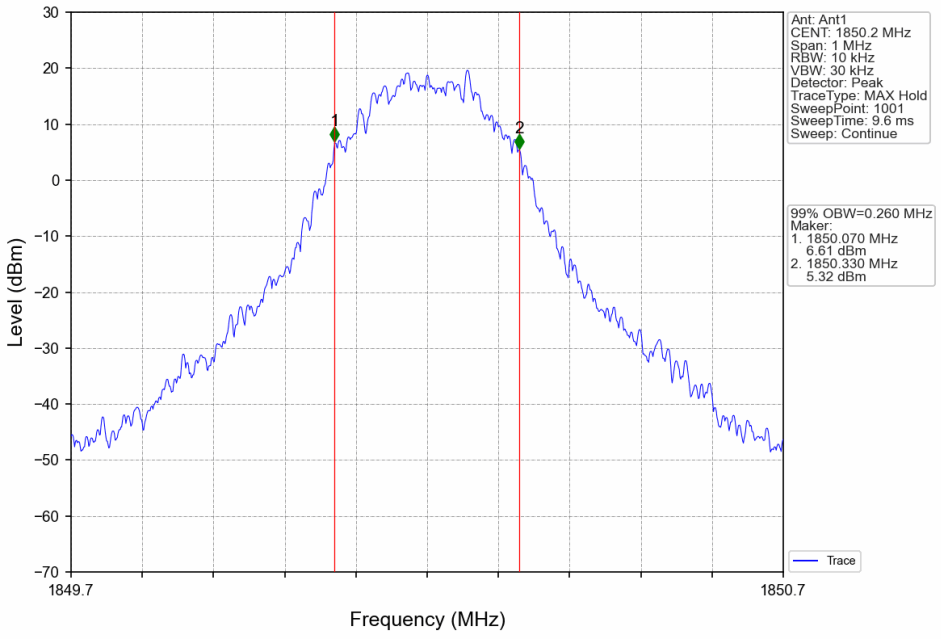
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



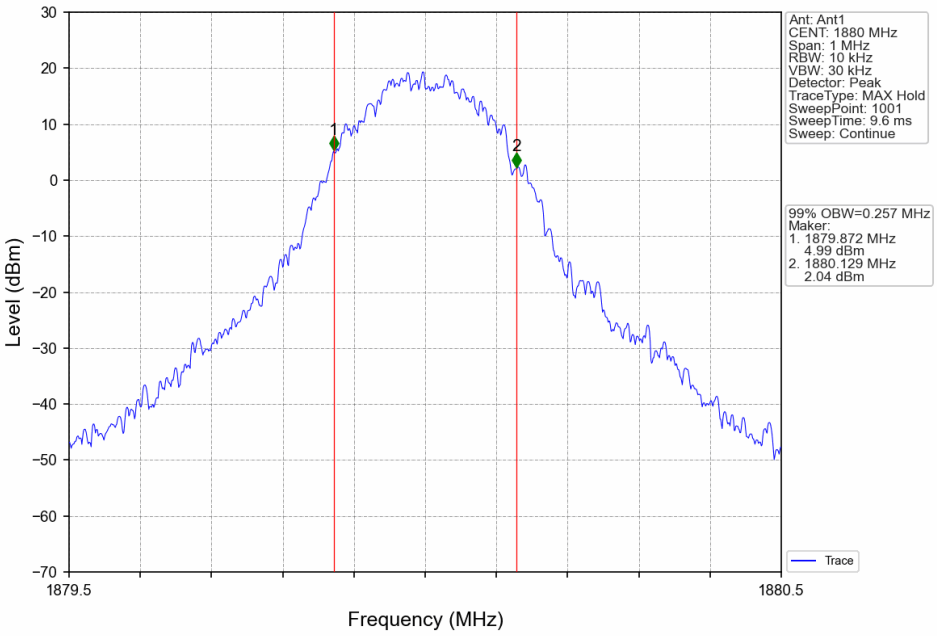
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



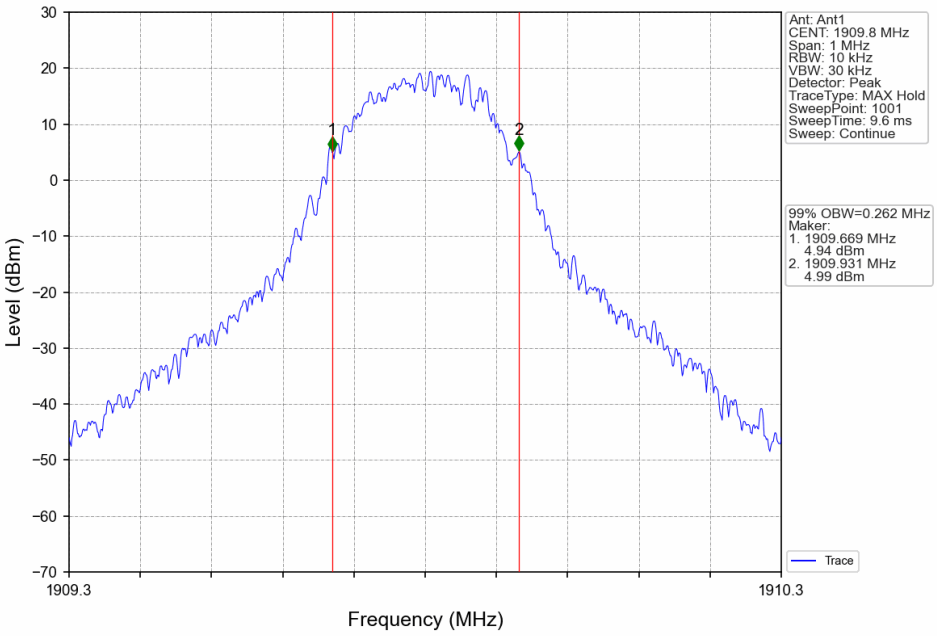
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



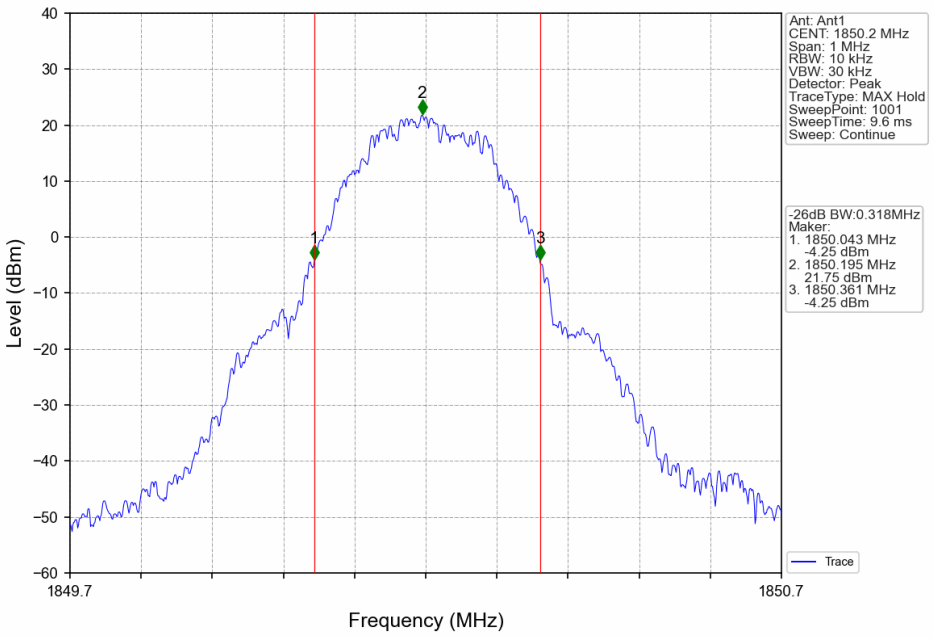
4.2 PCS1900_XDB

4.2.1 Test Result

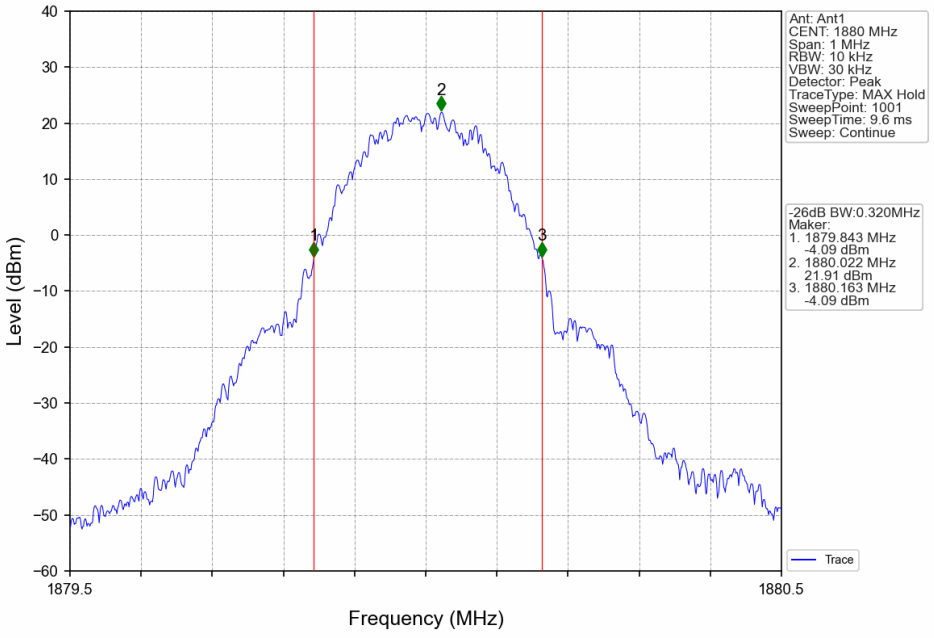
Band: PCS1900					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GPRS	1 TX Slot	1850.2	0.318	Pass
			1880	0.320	Pass
			1909.8	0.314	Pass
	EGPRS	1 TX Slot	1850.2	0.325	Pass
			1880	0.333	Pass
			1909.8	0.335	Pass

4.2.2 Test Graph

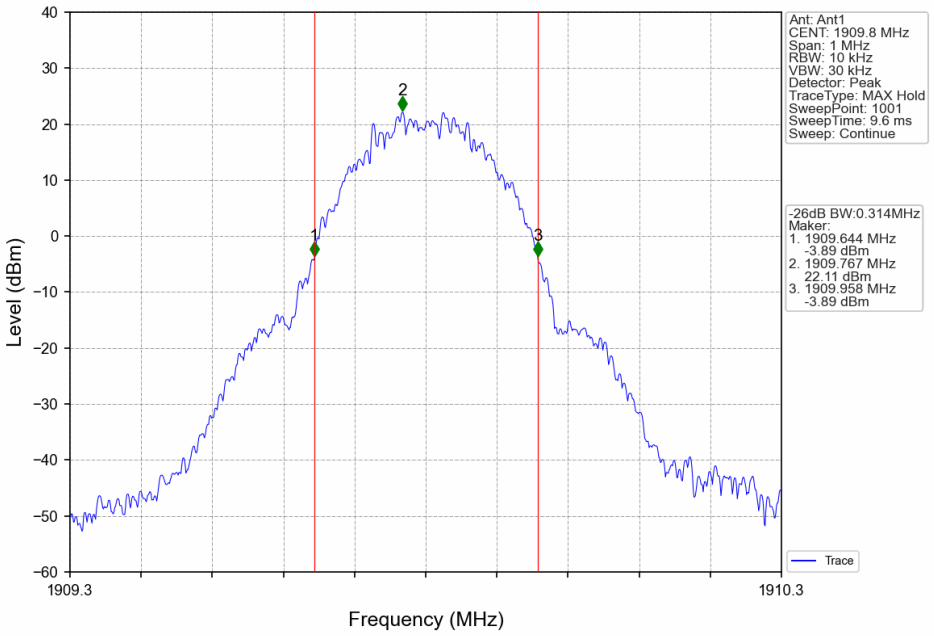
PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



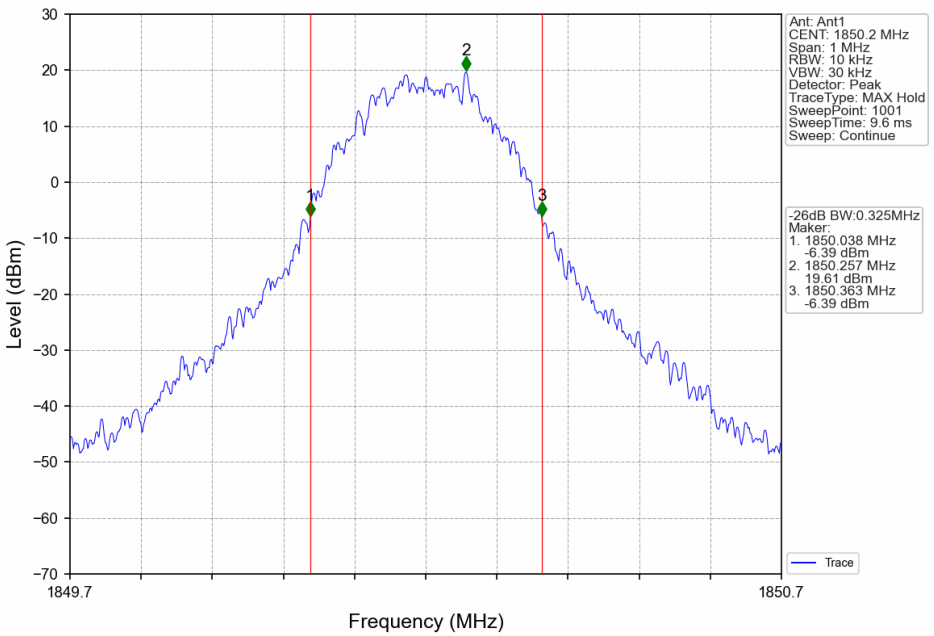
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



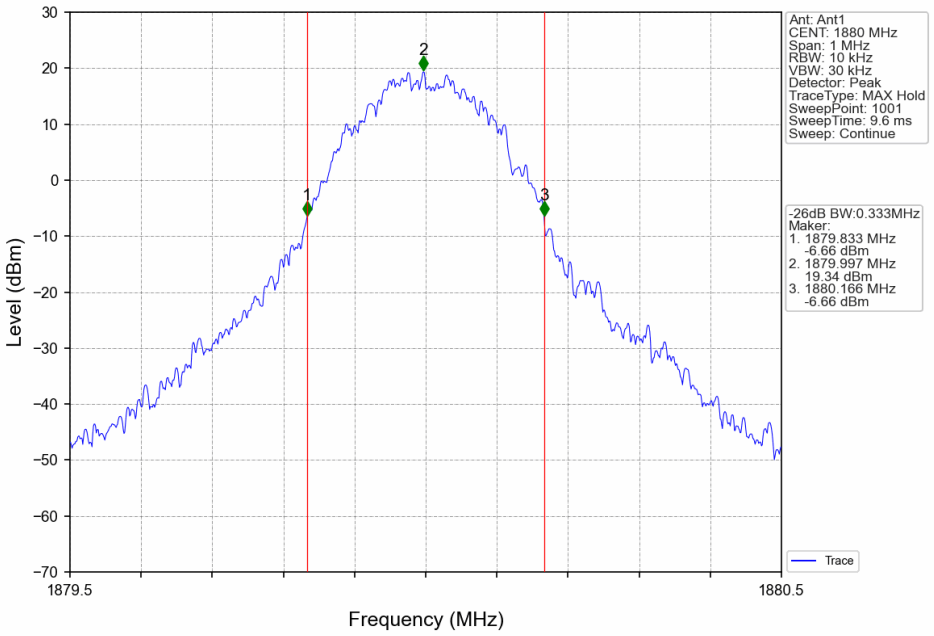
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



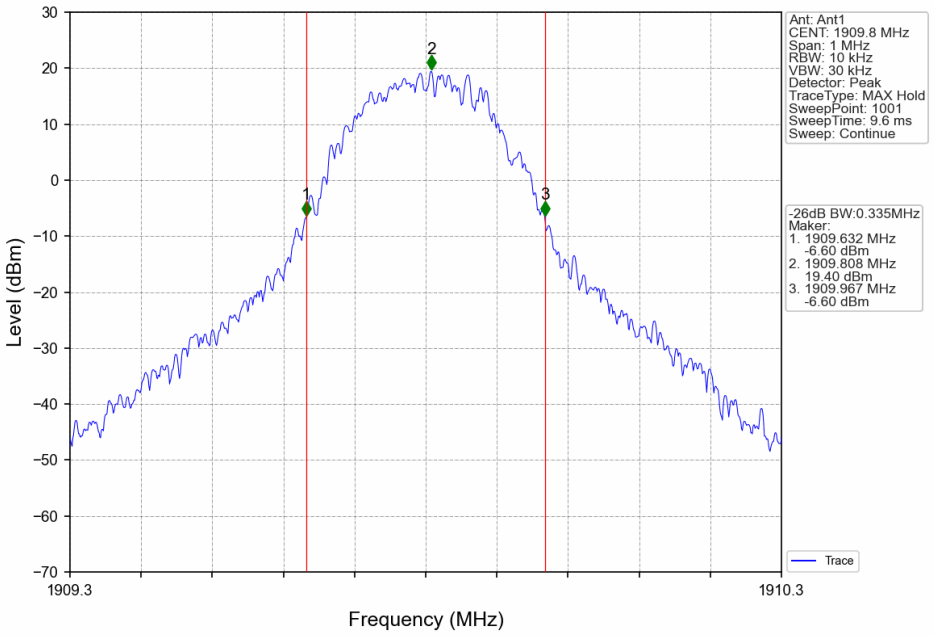
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



5. Peak-Average Ratio

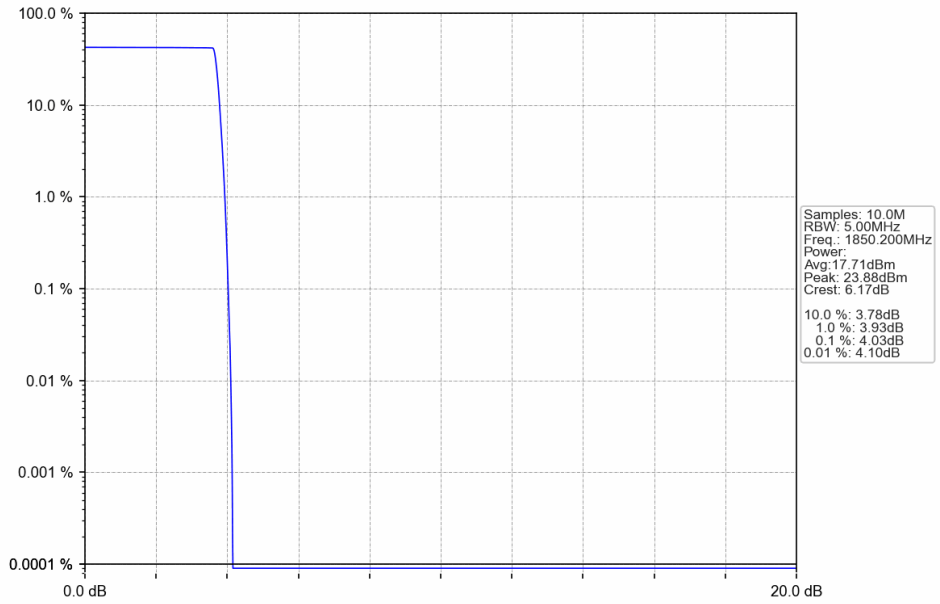
5.1 PCS1900

5.1.1 Test Result

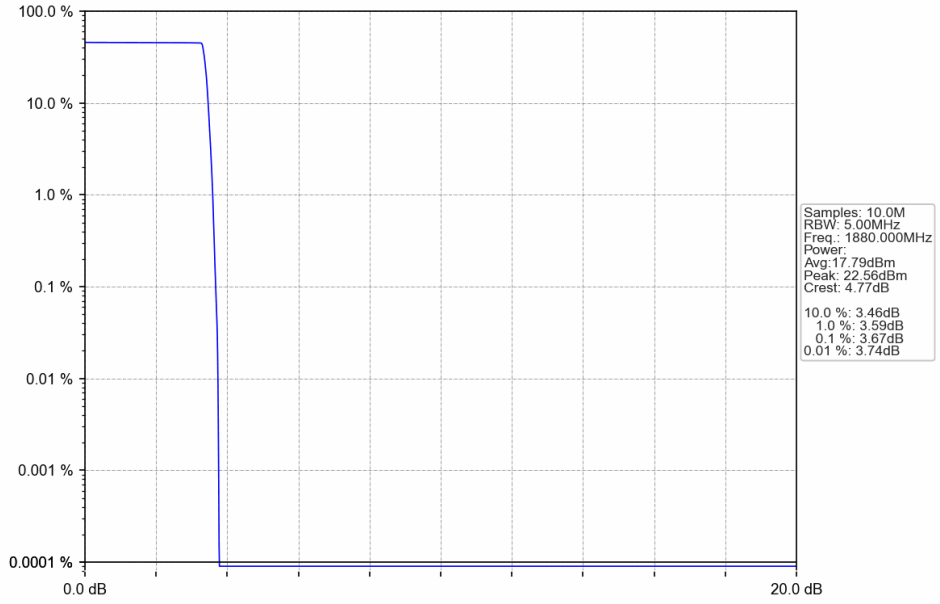
Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	1850.2	4.03	<=13	Pass
			1880	3.67	<=13	Pass
			1909.8	3.85	<=13	Pass
	EGPRS	4 TX Slots	1850.2	7.01	<=13	Pass
			1880	6.97	<=13	Pass
			1909.8	6.86	<=13	Pass

5.1.2 Test Graph

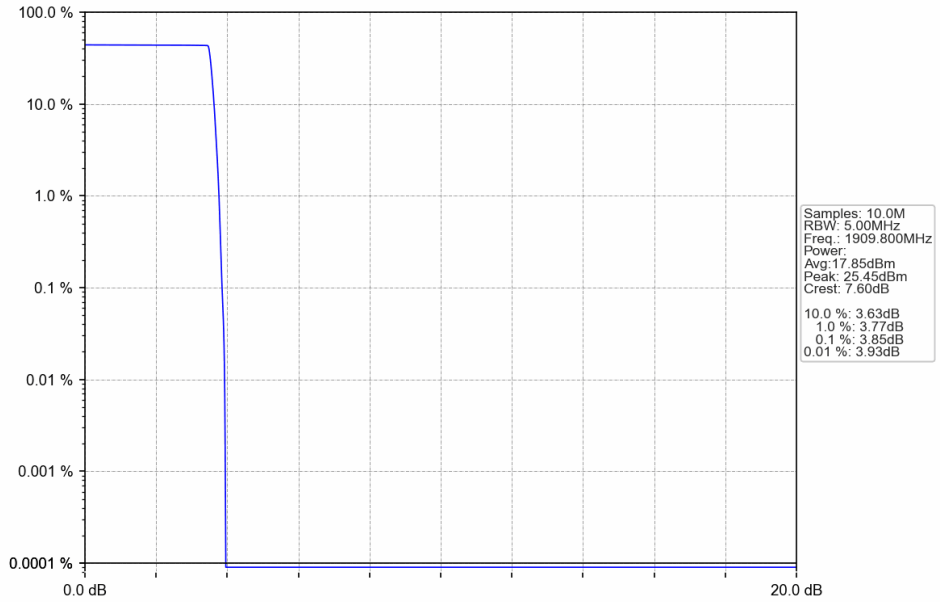
PCS1900_GPRS_LCH_1850.2MHz_4 TX Slots_NTNV



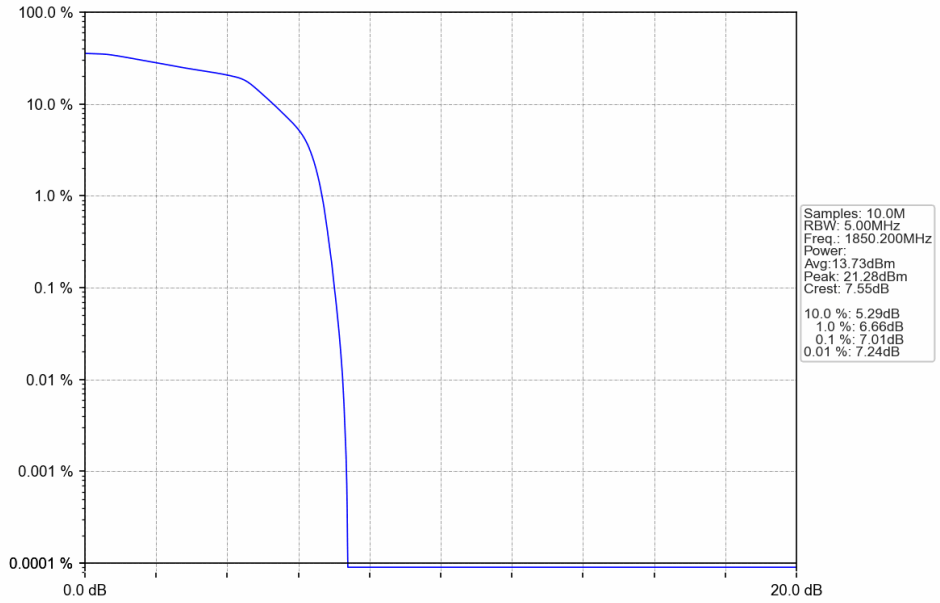
PCS1900_GPRS_MCH_1880MHz_4 TX Slots_NTNV



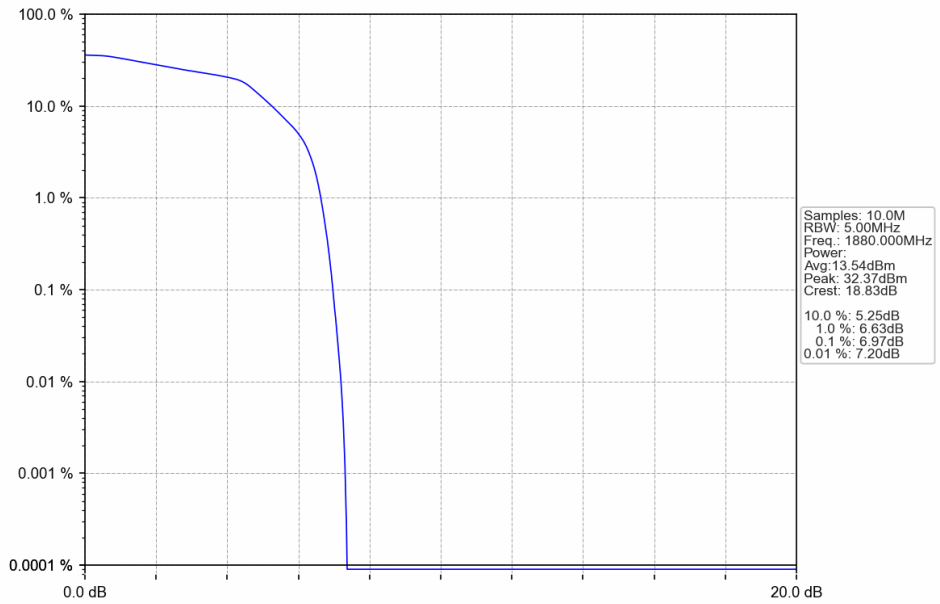
PCS1900_GPRS_HCH_1909.8MHz_4 TX Slots_NTNV



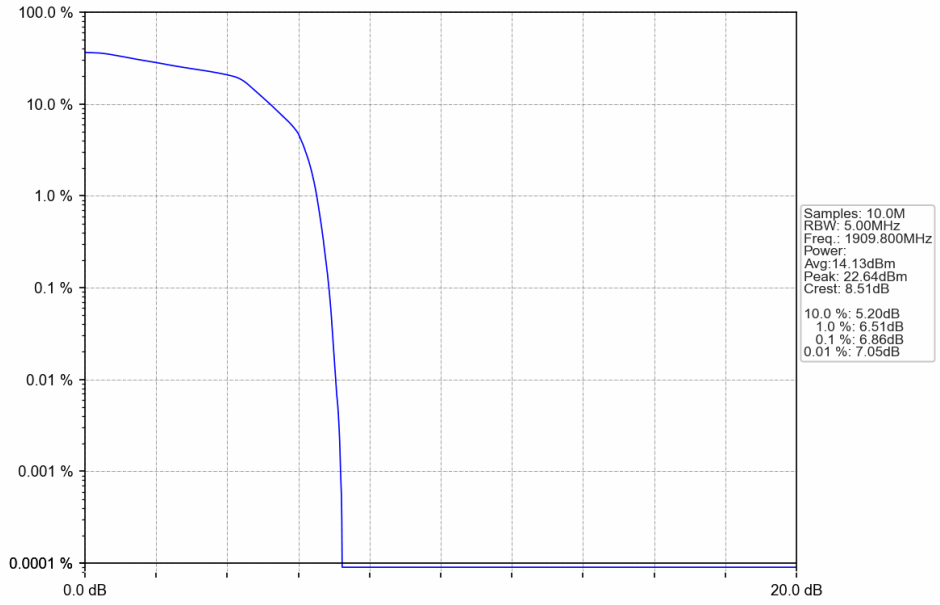
PCS1900_EGPRS_LCH_1850.2MHz_4 TX Slots_NTNV



PCS1900_EGPRS_MCH_1880MHz_4 TX Slots_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_4 TX Slots_NTNV



6. Spurious Emission

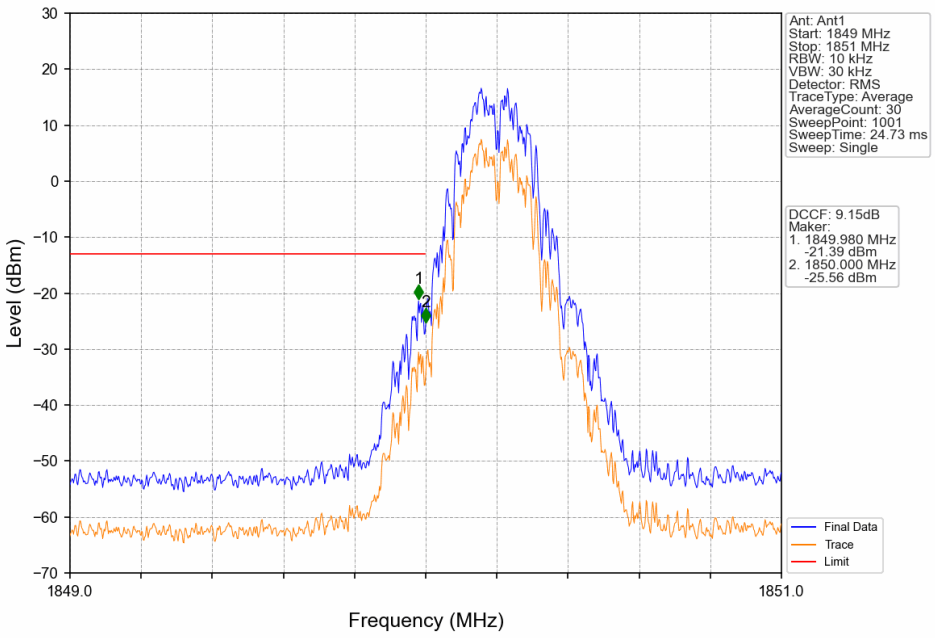
6.1 PCS1900

6.1.1 Test Result

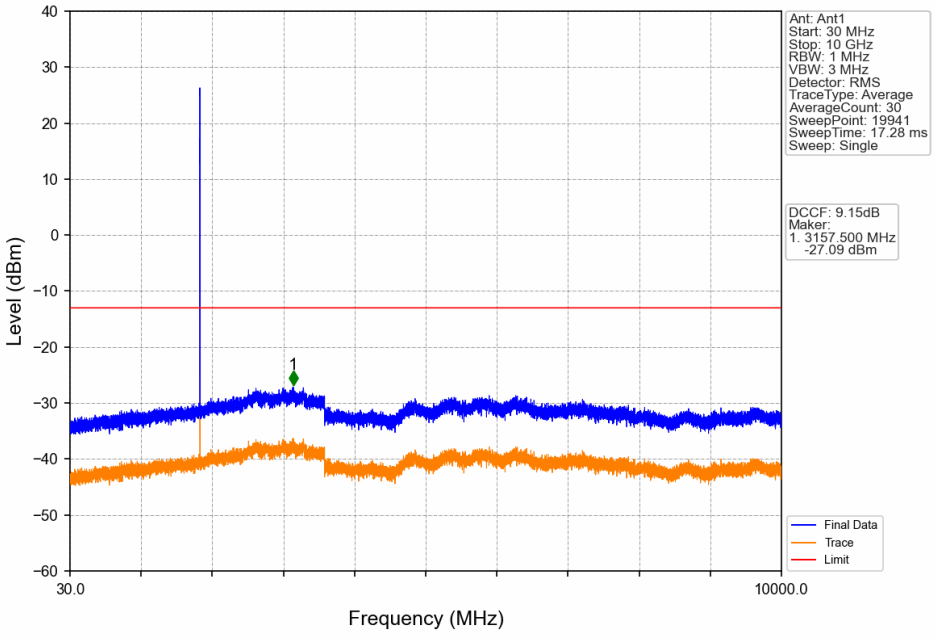
Band: PCS1900						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	Refer To Test Graph		Pass
			1880	Refer To Test Graph		Pass
			1909.8	Refer To Test Graph		Pass
	EGPRS	1 TX Slot	1850.2	Refer To Test Graph		Pass
			1880	Refer To Test Graph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

6.1.2 Test Graph

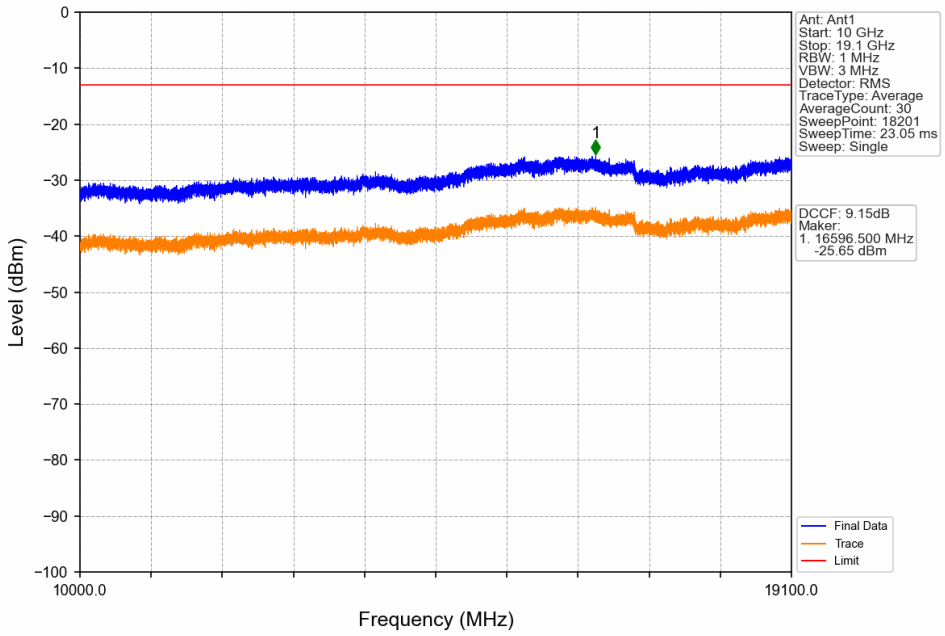
PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



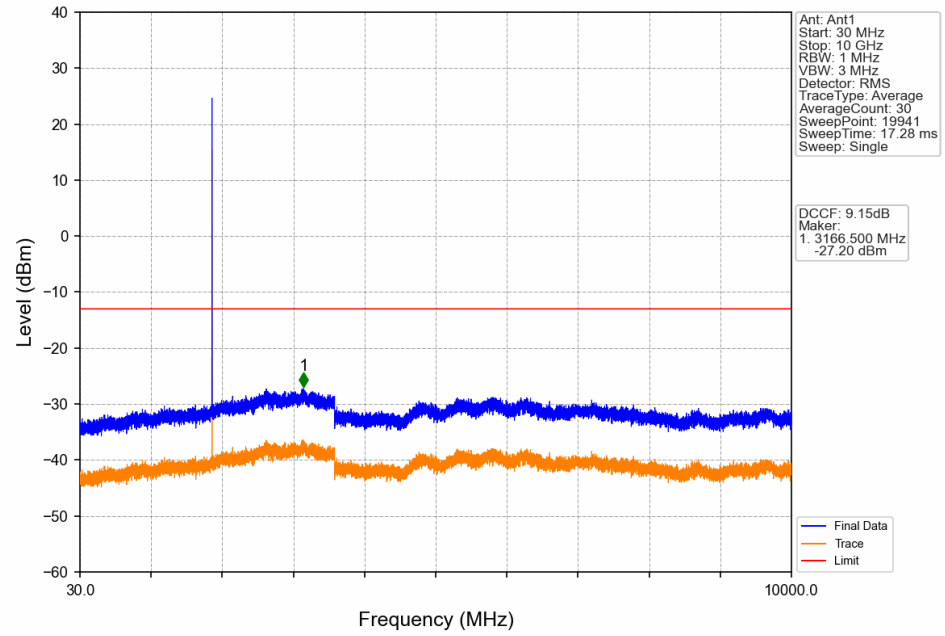
PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



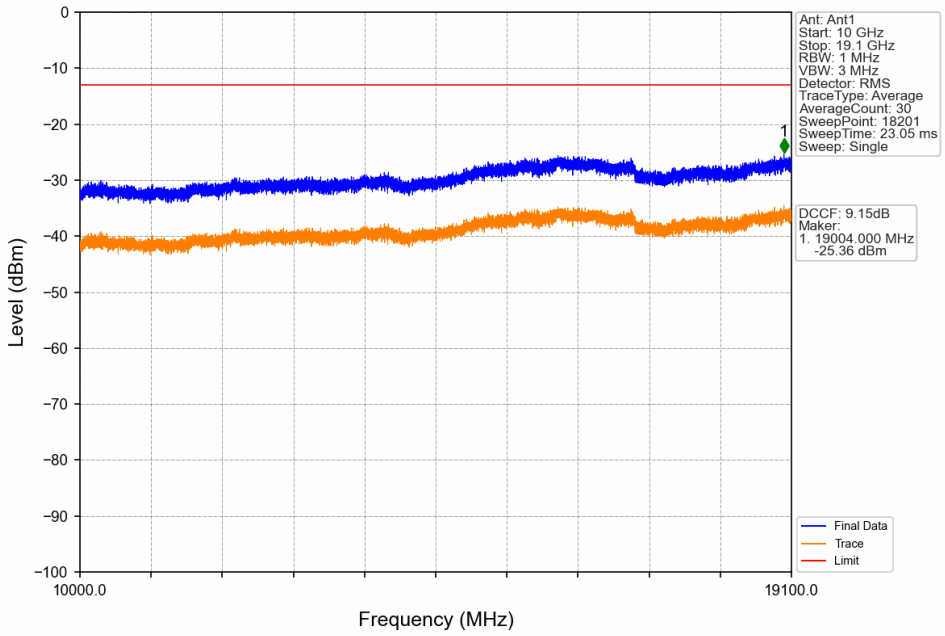
PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



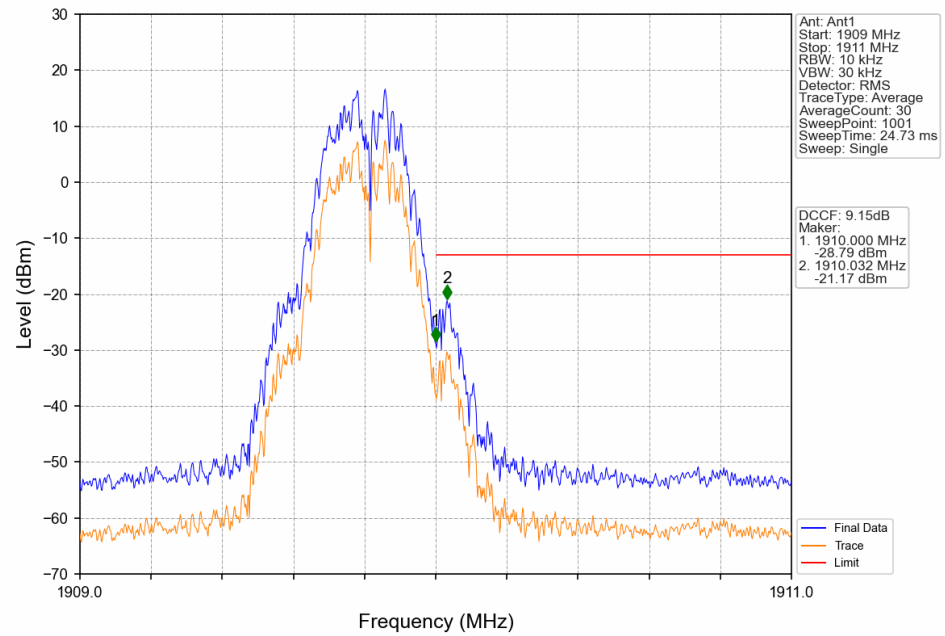
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



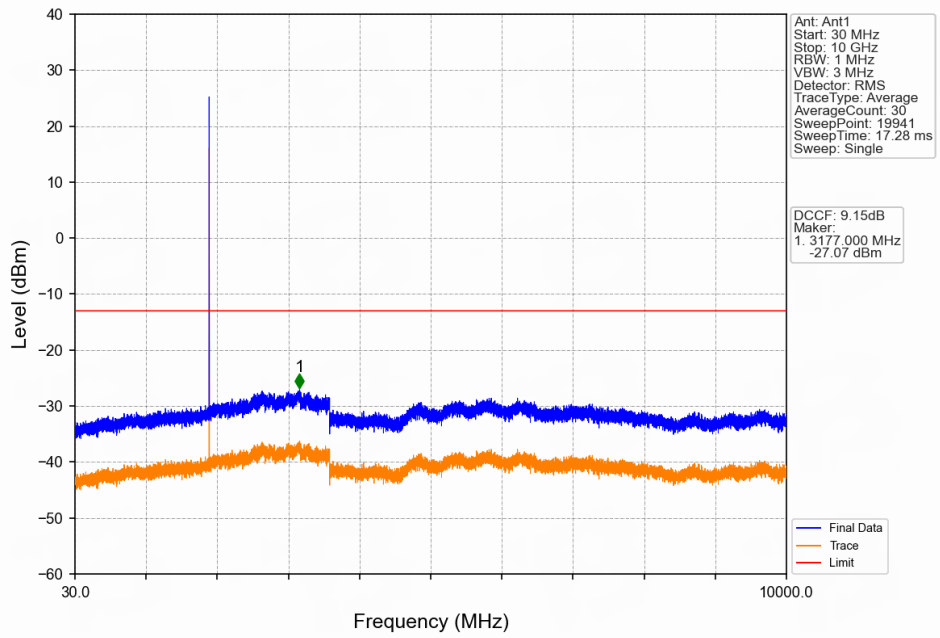
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



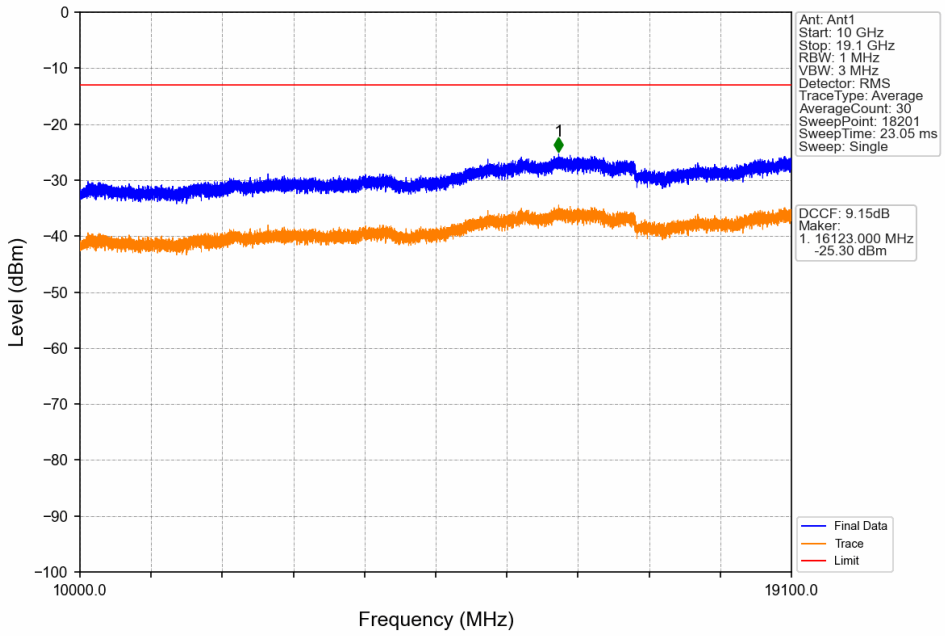
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



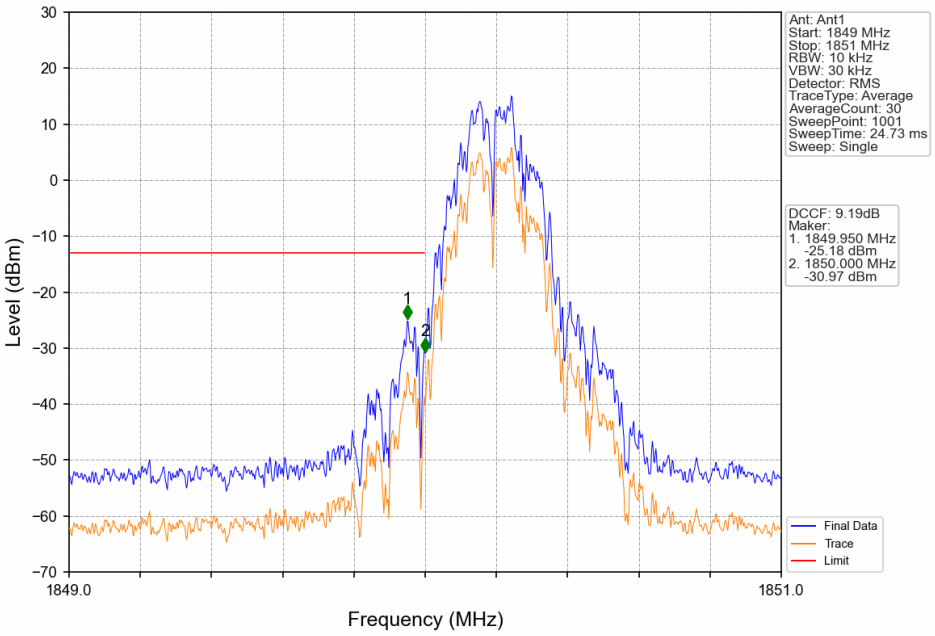
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



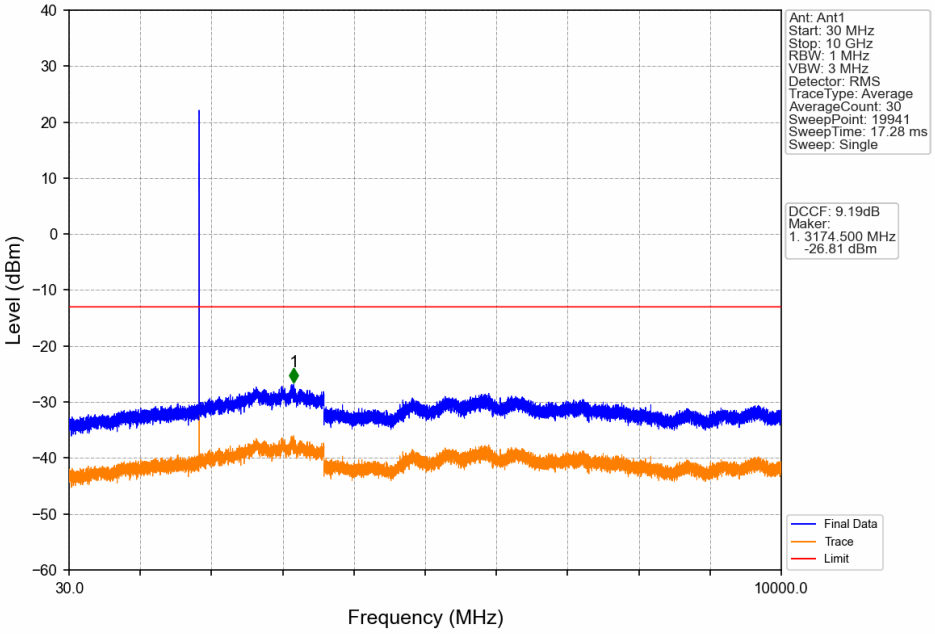
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



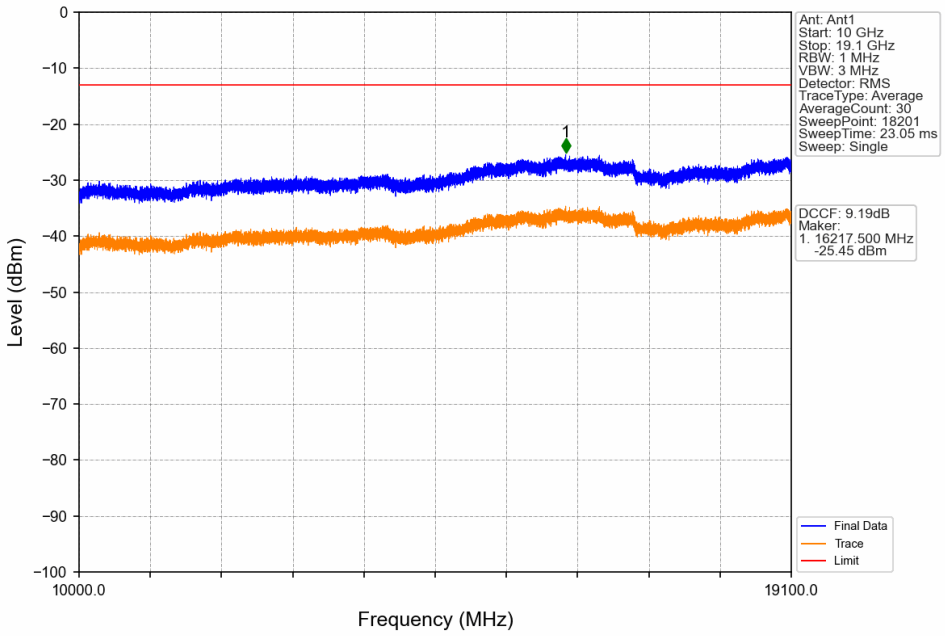
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



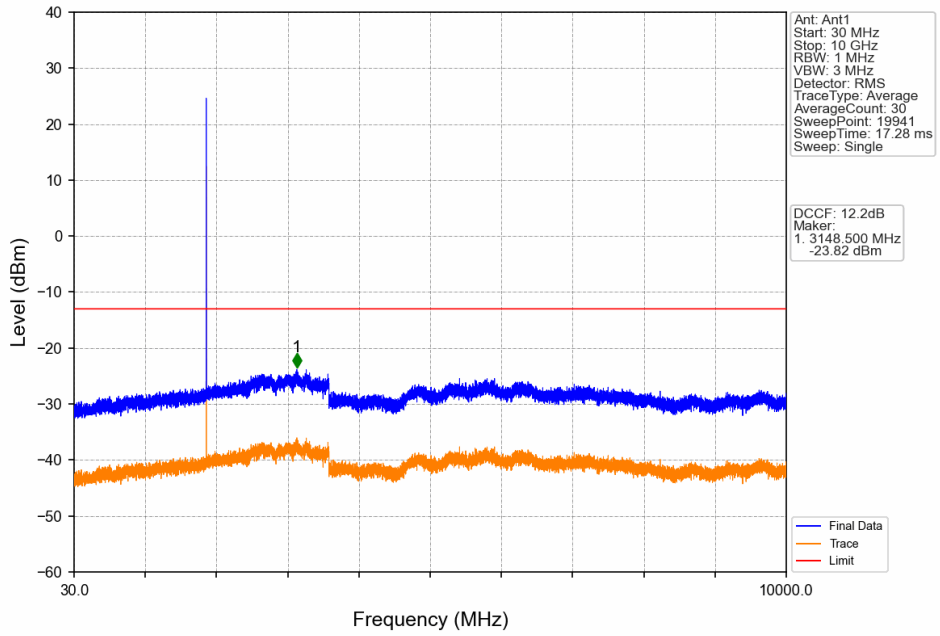
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



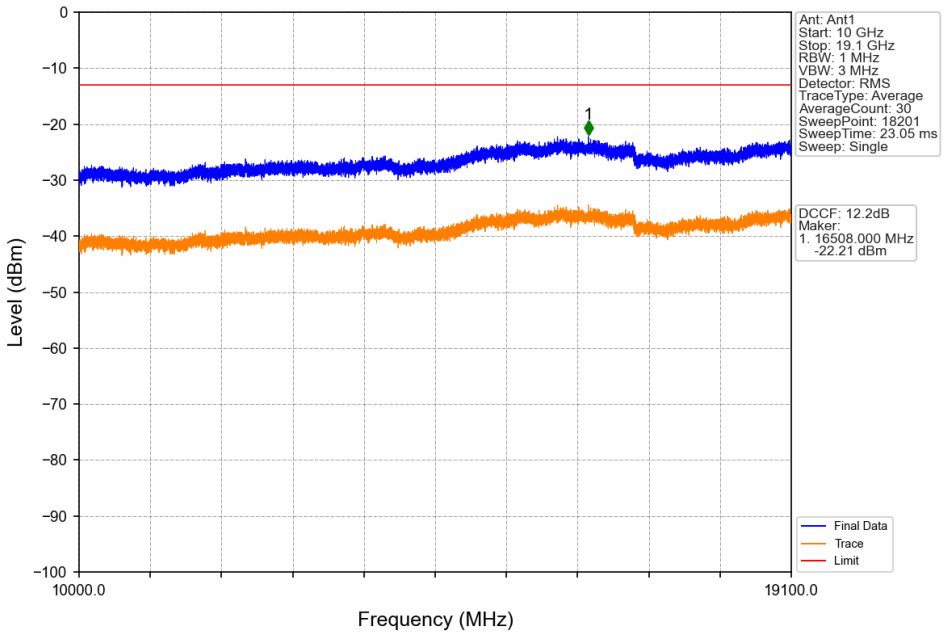
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



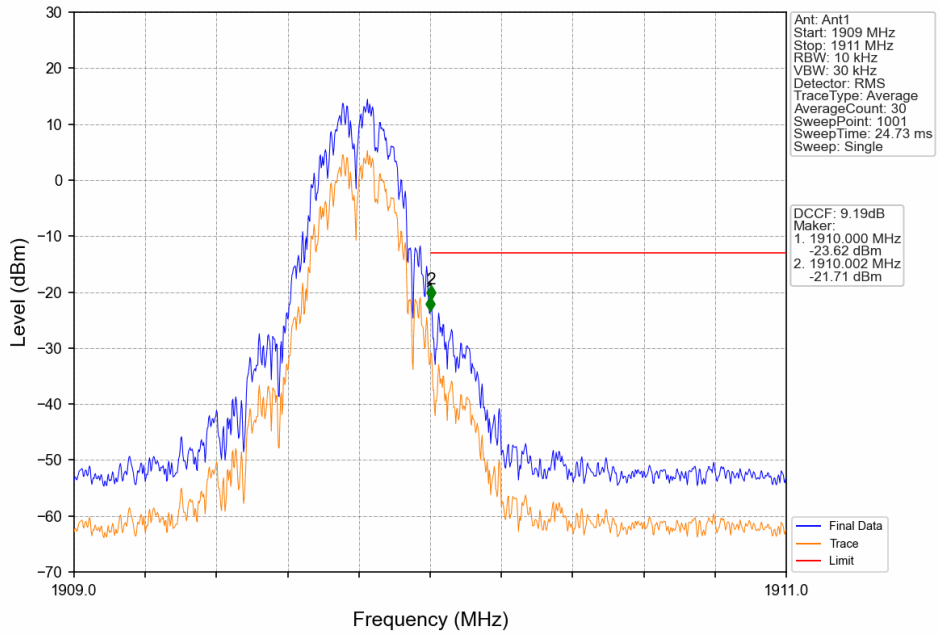
PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



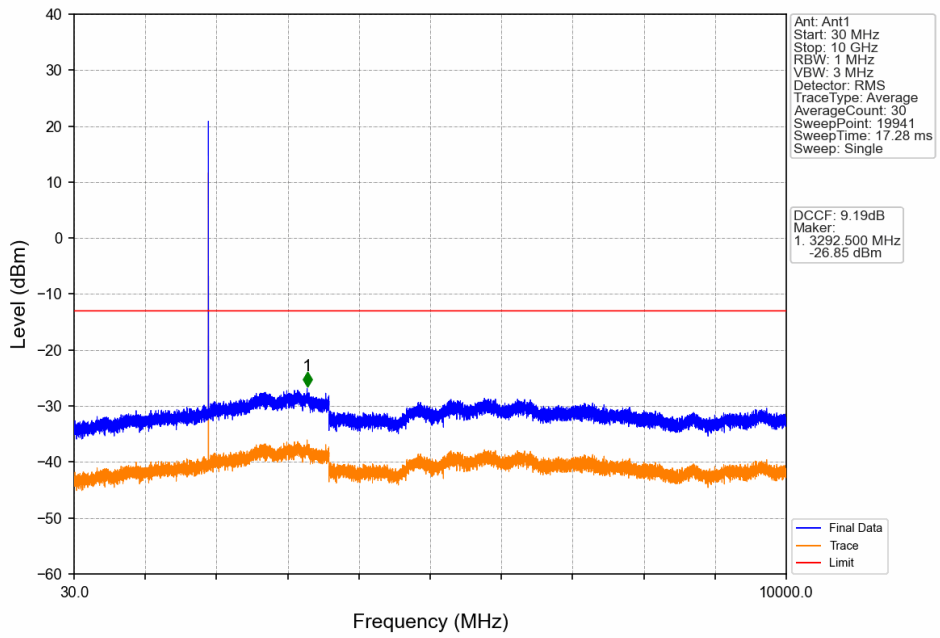
PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



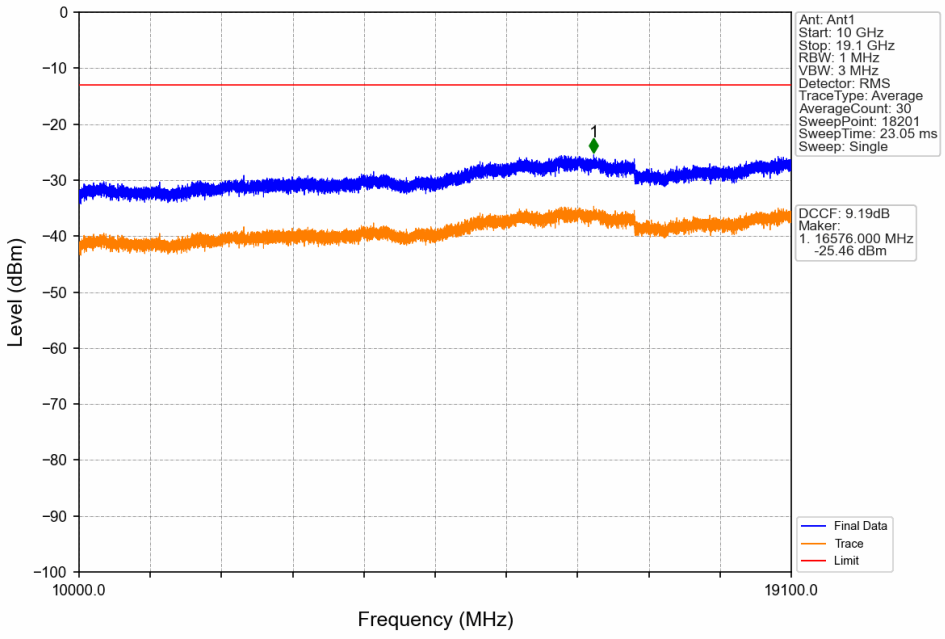
PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



7. Form731

7.1 Form731_Power

7.1.1 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	0.5236	0.0120	ppm	249KGXW	24E	27.19
PCS1900	0.2	1850.2	1909.8	0.2748	0.0117	ppm	262KG7W	24E	24.39

7.2 Form731_EIRP

7.2.1 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	0.5984	0.0120	ppm	249KGXW	24E	27.77
PCS1900	0.2	1850.2	1909.8	0.3141	0.0117	ppm	262KG7W	24E	24.97