1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 PCS1900_EIRP

Conducted Power

ENV	Mode		Conducted Power (dBm)		
	Network	Subset	Frequency (MHz)		
			1850.2	1880	1909.8
NTNV	GSM	GSM	30.64	30.19	30.11
	GPRS	1 TX Slot	30.66	30.16	30.09
		2 TX Slots	29.70	29.24	29.19
		3 TX Slots	27.60	27.20	27.22
		4 TX Slots	26.48	26.14	26.15
	EGPRS	1 TX Slot	25.82	25.41	24.97
		2 TX Slots	24.70	24.32	23.91
		3 TX Slots	22.40	22.17	21.85
		4 TX Slots	21.01	20.68	20.28

EIRP

ENV	Mode		ERP/EIRP(dBm)			ERP/EIRP(W)			Limit (W)	Verdict
	Network	Subset	Frequency (MHz)			Frequency (MHz)				
			1850.2	1880	1909.8	1850.2	1880	1909.8		
NTNV	GSM	GSM	29.94	29.49	29.41	**0.986**	0.889	0.873	2.0	Pass
	GPRS	1 TX Slot	29.96	29.46	29.39	**0.991**	0.883	0.869		Pass
		2 TX Slots	29.00	28.54	28.49	0.794	0.714	0.706		Pass
		3 TX Slots	26.90	26.50	26.52	0.490	0.447	0.449		Pass
		4 TX Slots	25.78	25.44	25.45	0.378	0.350	0.351		Pass
	EGPRS	1 TX Slot	25.12	24.71	24.27	**0.325**	0.296	0.267		Pass
		2 TX Slots	24.00	23.62	23.21	0.251	0.230	0.209		Pass
		3 TX Slots	21.70	21.47	21.15	0.148	0.140	0.130		Pass
		4 TX Slots	20.31	19.98	19.58	0.107	0.100	0.091		Pass
Note1: ERP=Conducted Power+Antenna Gain										

2. Frequency Stability

2.1 Test Result

2.1.1 PCS1900

Band: PCS1900							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
GSM	1850.2	20	3.27	-15.562	-0.0084	-2.5 to 2.5	Pass
			3.85	-10.557	-0.0057	-2.5 to 2.5	Pass
			4.43	-17.208	-0.0093	-2.5 to 2.5	Pass
		-30	3.85	-11.235	-0.0061	-2.5 to 2.5	Pass
		-20	3.85	-12.495	-0.0068	-2.5 to 2.5	Pass
		-10	3.85	-11.203	-0.0061	-2.5 to 2.5	Pass
		0	3.85	-11.526	-0.0062	-2.5 to 2.5	Pass
		10	3.85	-7.749	-0.0042	-2.5 to 2.5	Pass
		30	3.85	-11.429	-0.0062	-2.5 to 2.5	Pass
		40	3.85	-19.565	-0.0106	-2.5 to 2.5	Pass
		50	3.85	-15.013	-0.0081	-2.5 to 2.5	Pass
	1880	20	3.27	-12.075	-0.0064	-2.5 to 2.5	Pass
			3.85	-7.878	-0.0042	-2.5 to 2.5	Pass
			4.43	-9.234	-0.0049	-2.5 to 2.5	Pass
		-30	3.85	-10.880	-0.0058	-2.5 to 2.5	Pass
		-20	3.85	-10.364	-0.0055	-2.5 to 2.5	Pass
		-10	3.85	-8.039	-0.0043	-2.5 to 2.5	Pass
		0	3.85	-7.684	-0.0041	-2.5 to 2.5	Pass
		10	3.85	-10.913	-0.0058	-2.5 to 2.5	Pass
		30	3.85	-8.620	-0.0046	-2.5 to 2.5	Pass
		40	3.85	0.872	0.0005	-2.5 to 2.5	Pass
		50	3.85	5.424	0.0029	-2.5 to 2.5	Pass
	1909.8	20	3.27	-8.330	-0.0044	-2.5 to 2.5	Pass
			3.85	-9.492	-0.0050	-2.5 to 2.5	Pass
			4.43	-13.011	-0.0068	-2.5 to 2.5	Pass
		-30	3.85	-8.846	-0.0046	-2.5 to 2.5	Pass
		-20	3.85	-7.684	-0.0040	-2.5 to 2.5	Pass
		-10	3.85	-9.976	-0.0052	-2.5 to 2.5	Pass
		0	3.85	-6.941	-0.0036	-2.5 to 2.5	Pass
		10	3.85	-15.045	-0.0079	-2.5 to 2.5	Pass
		30	3.85	-8.427	-0.0044	-2.5 to 2.5	Pass
		40	3.85	0.161	0.0001	-2.5 to 2.5	Pass
		50	3.85	2.647	0.0014	-2.5 to 2.5	Pass
GPRS	1850.2	20	3.27	-9.815	-0.0053	-2.5 to 2.5	Pass
			3.85	-18.177	-0.0098	-2.5 to 2.5	Pass
			4.43	-16.014	-0.0087	-2.5 to 2.5	Pass
		-30	3.85	-11.752	-0.0064	-2.5 to 2.5	Pass
		-20	3.85	-8.879	-0.0048	-2.5 to 2.5	Pass
		-10	3.85	-6.651	-0.0036	-2.5 to 2.5	Pass
		0	3.85	-11.042	-0.0060	-2.5 to 2.5	Pass
		10	3.85	-6.845	-0.0037	-2.5 to 2.5	Pass
		30	3.85	-9.621	-0.0052	-2.5 to 2.5	Pass
		40	3.85	-1.550	-0.0008	-2.5 to 2.5	Pass
		50	3.85	3.777	0.0020	-2.5 to 2.5	Pass
	1880	20	3.27	-10.105	-0.0054	-2.5 to 2.5	Pass
			3.85	-8.975	-0.0048	-2.5 to 2.5	Pass
			4.43	-6.167	-0.0033	-2.5 to 2.5	Pass
		-30	3.85	-10.073	-0.0054	-2.5 to 2.5	Pass
		-20	3.85	-14.173	-0.0075	-2.5 to 2.5	Pass

		-10	3.85	-9.557	-0.0051	-2.5 to 2.5	Pass
		0	3.85	-8.556	-0.0046	-2.5 to 2.5	Pass
		10	3.85	-8.459	-0.0045	-2.5 to 2.5	Pass
		30	3.85	-10.267	-0.0055	-2.5 to 2.5	Pass
		40	3.85	-8.168	-0.0043	-2.5 to 2.5	Pass
		50	3.85	1.614	0.0009	-2.5 to 2.5	Pass
	1909.8	20	3.27	-9.460	-0.0050	-2.5 to 2.5	Pass
			3.85	-10.364	-0.0054	-2.5 to 2.5	Pass
			4.43	-15.982	-0.0084	-2.5 to 2.5	Pass
		-30	3.85	-13.883	-0.0073	-2.5 to 2.5	Pass
		-20	3.85	-9.460	-0.0050	-2.5 to 2.5	Pass
		-10	3.85	-13.108	-0.0069	-2.5 to 2.5	Pass
		0	3.85	-17.305	-0.0091	-2.5 to 2.5	Pass
		10	3.85	-9.363	-0.0049	-2.5 to 2.5	Pass
		30	3.85	-15.110	-0.0079	-2.5 to 2.5	Pass
		40	3.85	-13.108	-0.0069	-2.5 to 2.5	Pass
		50	3.85	-3.745	-0.0020	-2.5 to 2.5	Pass
EGPRS	1850.2	20	3.27	-25.893	-0.0140	-2.5 to 2.5	Pass
			3.85	-28.928	-0.0156	-2.5 to 2.5	Pass
			4.43	-27.378	-0.0148	-2.5 to 2.5	Pass
		-30	3.85	-30.930	-0.0167	-2.5 to 2.5	Pass
		-20	3.85	-23.666	-0.0128	-2.5 to 2.5	Pass
		-10	3.85	-29.574	-0.0160	-2.5 to 2.5	Pass
		0	3.85	-27.249	-0.0147	-2.5 to 2.5	Pass
		10	3.85	-26.571	-0.0144	-2.5 to 2.5	Pass
		30	3.85	-23.084	-0.0125	-2.5 to 2.5	Pass
		40	3.85	-19.436	-0.0105	-2.5 to 2.5	Pass
		50	3.85	-18.952	-0.0102	-2.5 to 2.5	Pass
	1880	20	3.27	-30.672	-0.0163	-2.5 to 2.5	Pass
			3.85	-24.537	-0.0131	-2.5 to 2.5	Pass
			4.43	-25.118	-0.0134	-2.5 to 2.5	Pass
		-30	3.85	-25.700	-0.0137	-2.5 to 2.5	Pass
		-20	3.85	-24.440	-0.0130	-2.5 to 2.5	Pass
		-10	3.85	-22.277	-0.0118	-2.5 to 2.5	Pass
		0	3.85	-26.539	-0.0141	-2.5 to 2.5	Pass
		10	3.85	-25.409	-0.0135	-2.5 to 2.5	Pass
		30	3.85	-23.569	-0.0125	-2.5 to 2.5	Pass
		40	3.85	-22.632	-0.0120	-2.5 to 2.5	Pass
		50	3.85	-17.951	-0.0095	-2.5 to 2.5	Pass
	1909.8	20	3.27	-22.116	-0.0116	-2.5 to 2.5	Pass
			3.85	-23.375	-0.0122	-2.5 to 2.5	Pass
			4.43	-21.244	-0.0111	-2.5 to 2.5	Pass
		-30	3.85	-27.152	-0.0142	-2.5 to 2.5	Pass
		-20	3.85	-23.246	-0.0122	-2.5 to 2.5	Pass
		-10	3.85	-18.048	-0.0095	-2.5 to 2.5	Pass
		0	3.85	-28.767	-0.0151	-2.5 to 2.5	Pass
		10	3.85	-26.022	-0.0136	-2.5 to 2.5	Pass
		30	3.85	-29.219	-0.0153	-2.5 to 2.5	Pass
		40	3.85	-29.186	-0.0153	-2.5 to 2.5	Pass
		50	3.85	-20.502	-0.0107	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

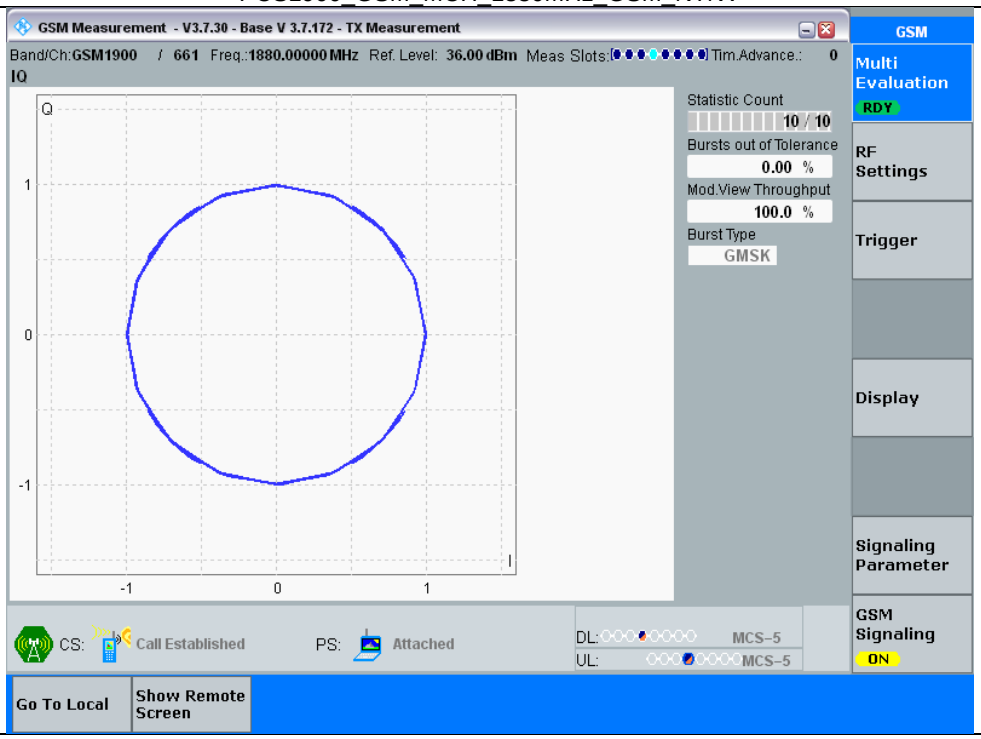
3.1.1 PCS1900

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

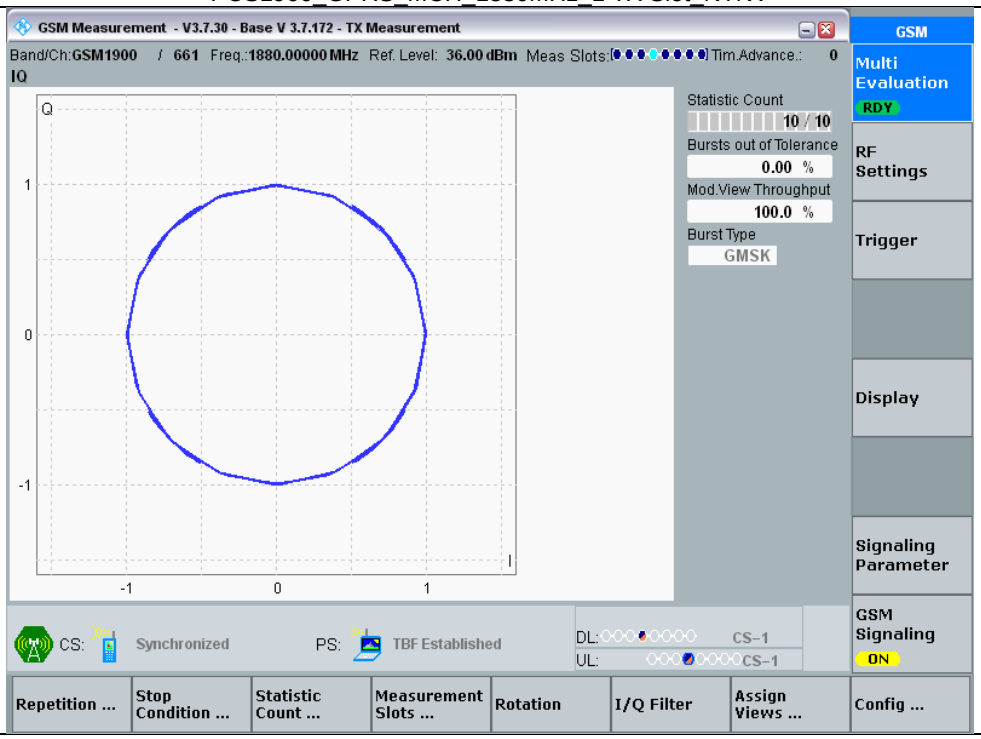
3.2 Test Graph

3.2.1 PCS1900

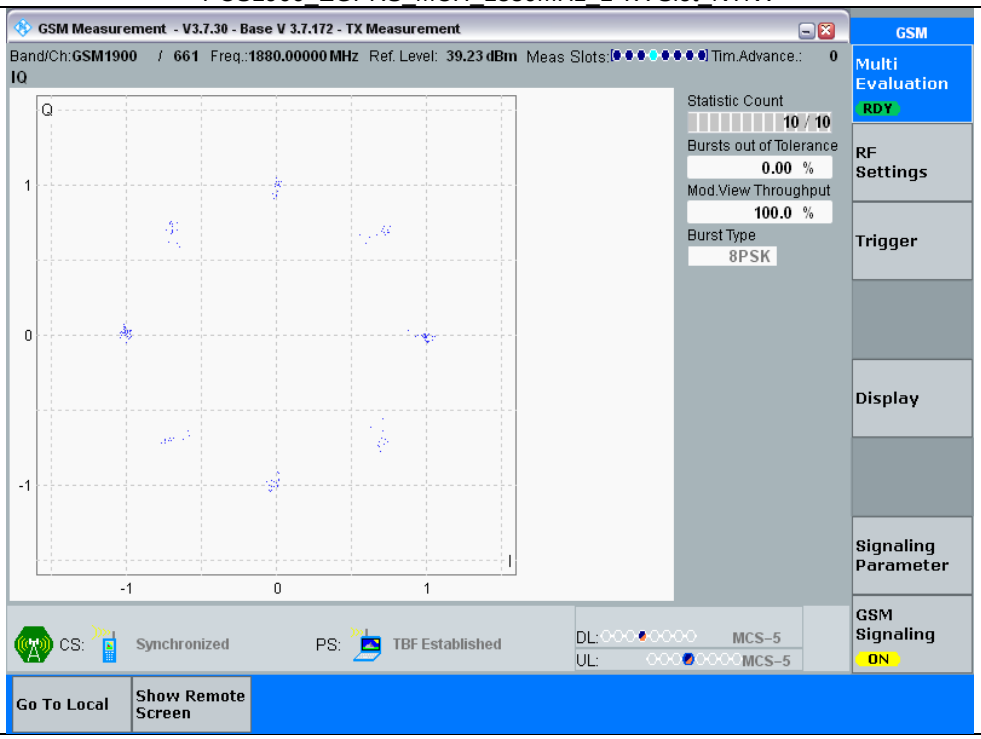
PCS1900_GSM_MCH_1880MHz_GSM_NTNV



PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 PCS1900_OBW

Band: PCS1900						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	0.245	/	Pass
			1880	0.245	/	Pass
			1909.8	0.246	/	Pass
	GPRS	1 TX Slot	1850.2	0.245	/	Pass
			1880	0.242	/	Pass
			1909.8	0.241	/	Pass
	EGPRS	1 TX Slot	1850.2	0.256	/	Pass
			1880	0.243	/	Pass
			1909.8	0.241	/	Pass

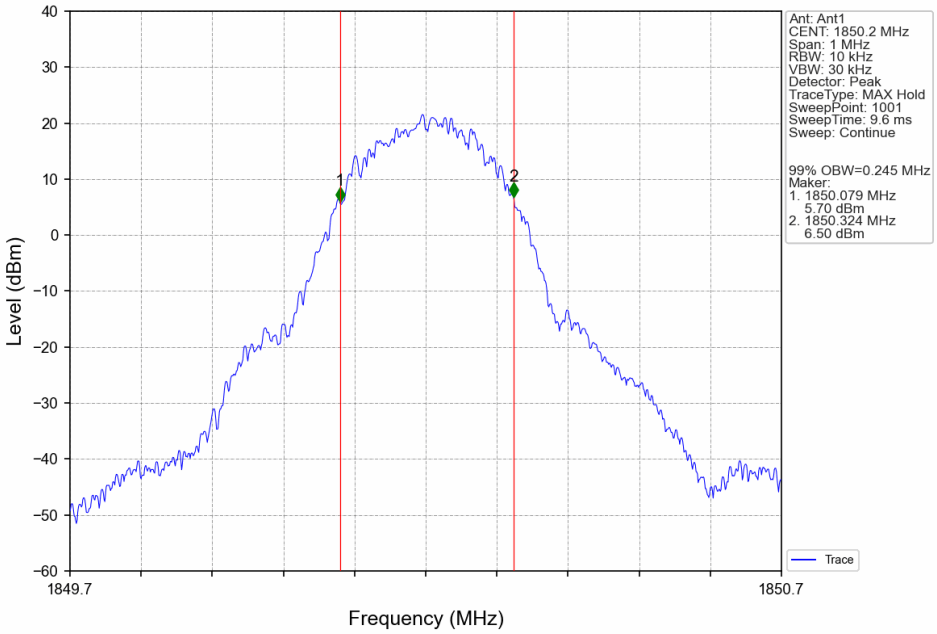
4.1.2 PCS1900_XDB

Band: PCS1900						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	0.313	/	Pass
			1880	0.315	/	Pass
			1909.8	0.311	/	Pass
	GPRS	1 TX Slot	1850.2	0.320	/	Pass
			1880	0.318	/	Pass
			1909.8	0.317	/	Pass
	EGPRS	1 TX Slot	1850.2	0.318	/	Pass
			1880	0.306	/	Pass
			1909.8	0.302	/	Pass

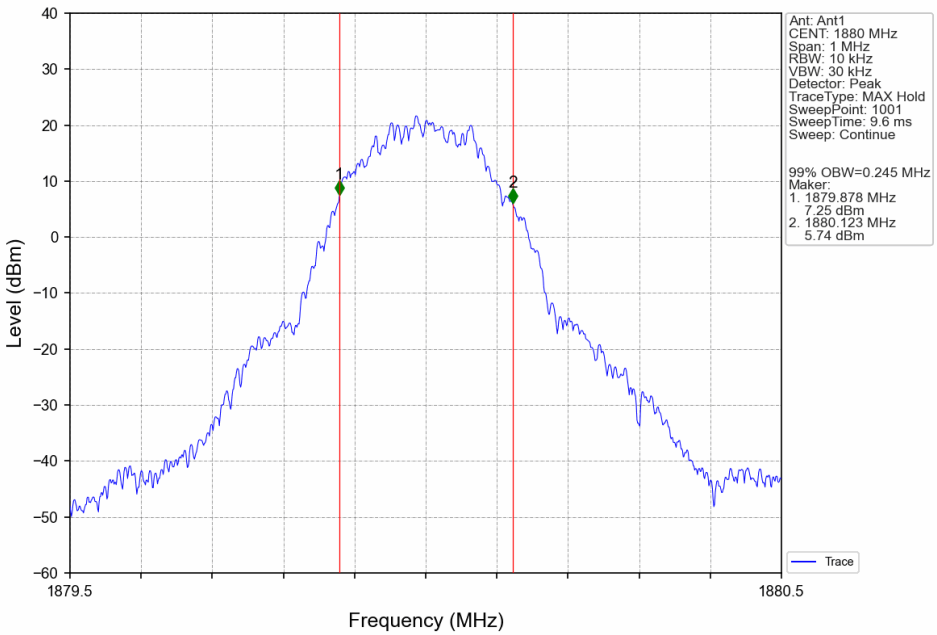
4.2 Test Graph

4.2.1 PCS1900_OBW

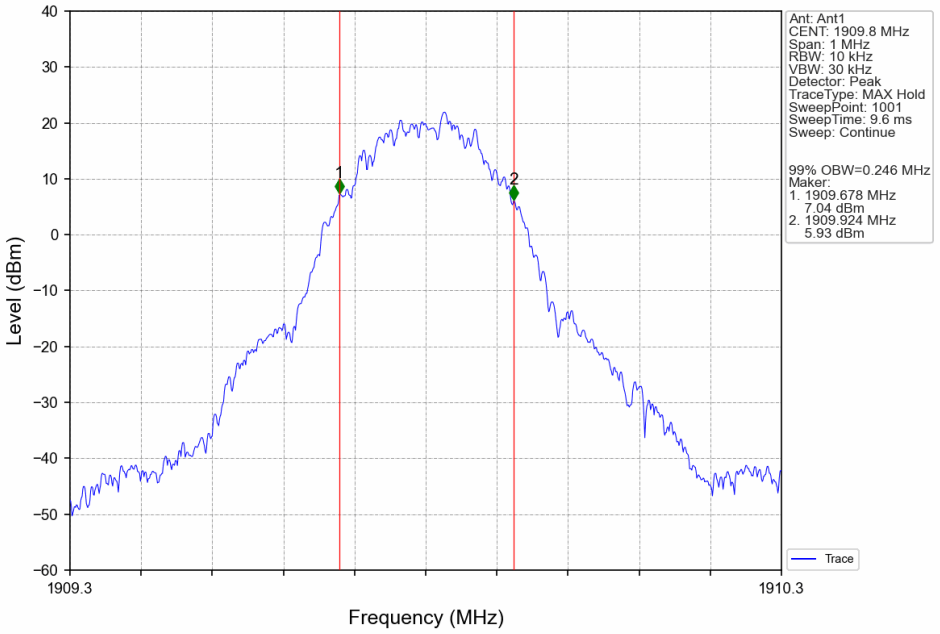
PCS1900_GSM_LCH_1850.2MHz_GSM_NTNV



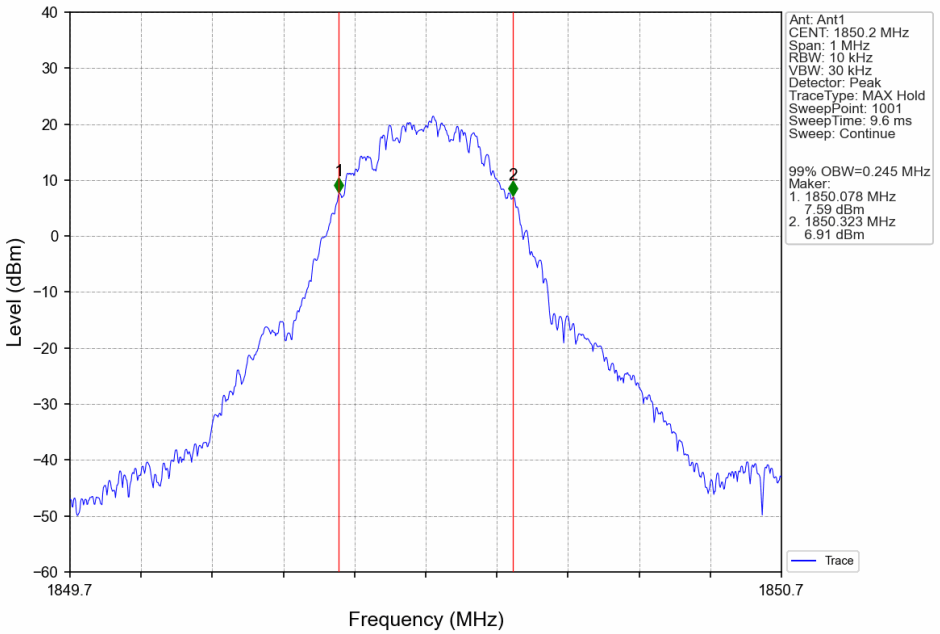
PCS1900_GSM_MCH_1880MHz_GSM_NTNV



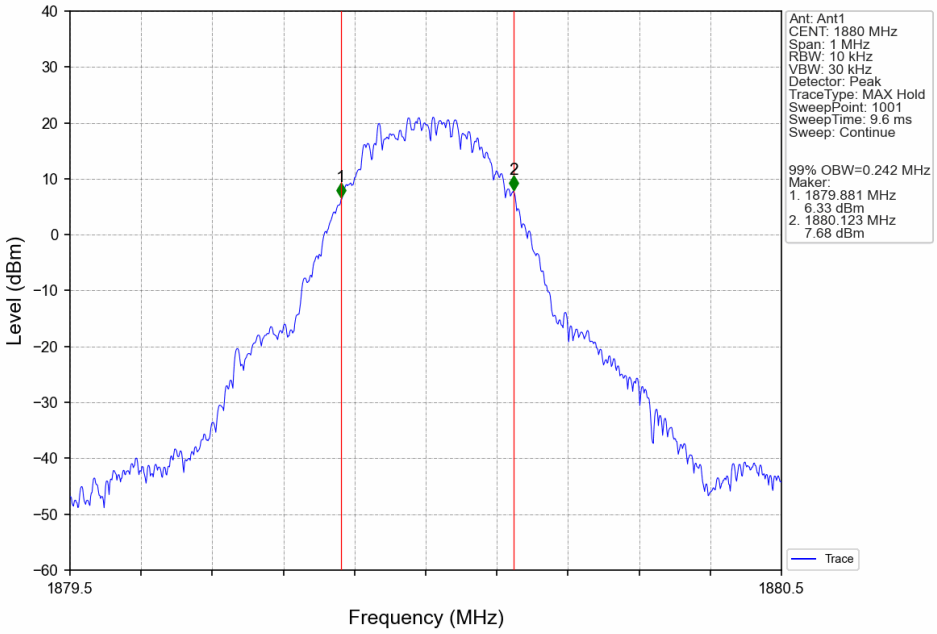
PCS1900_GSM_HCH_1909.8MHz_GSM_NTNV



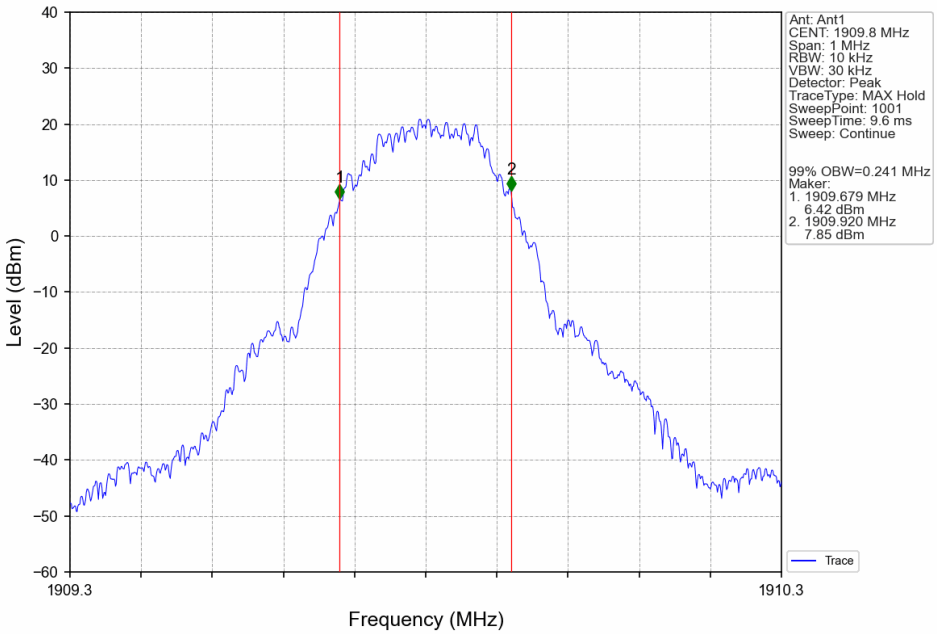
PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



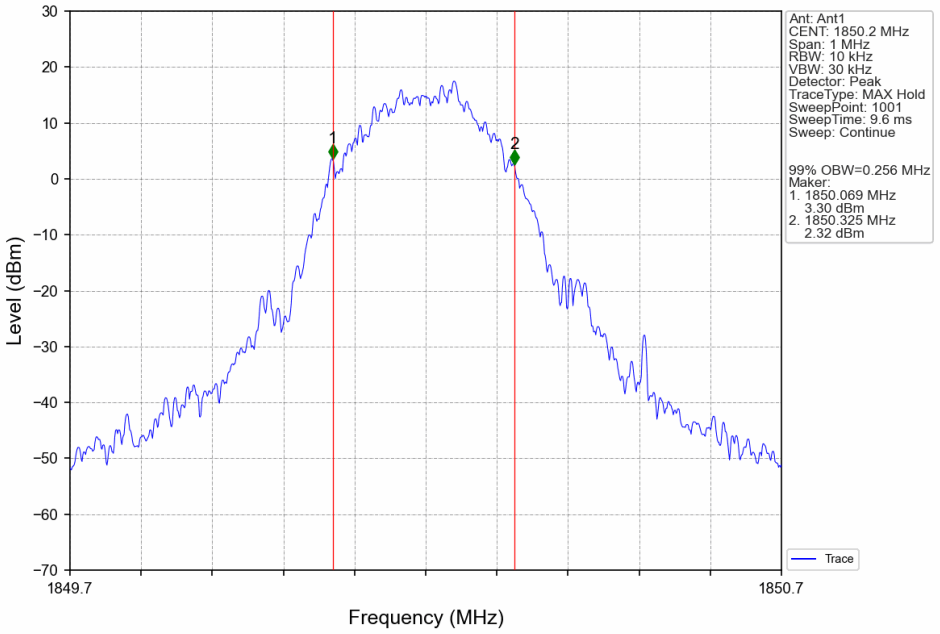
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



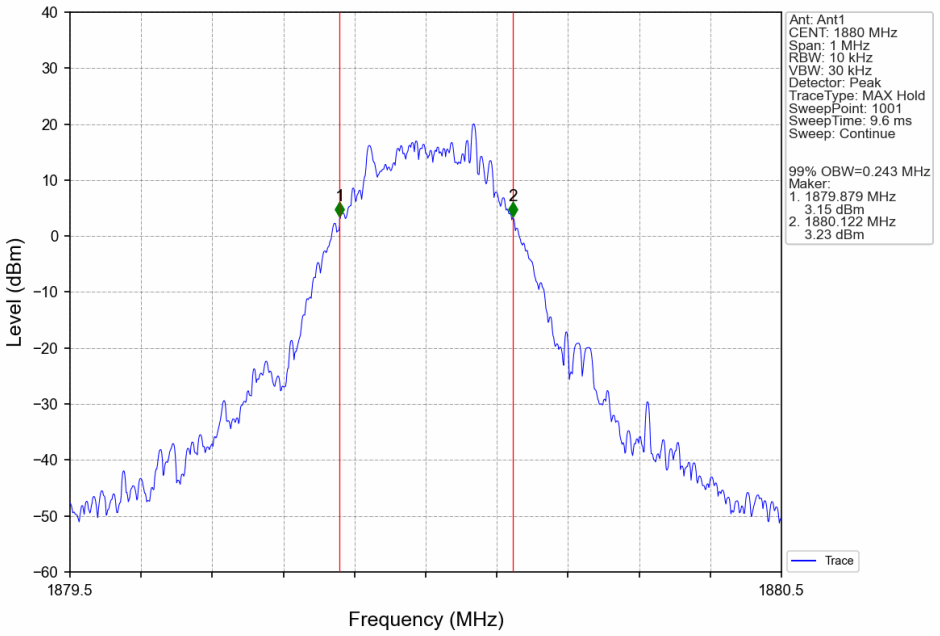
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



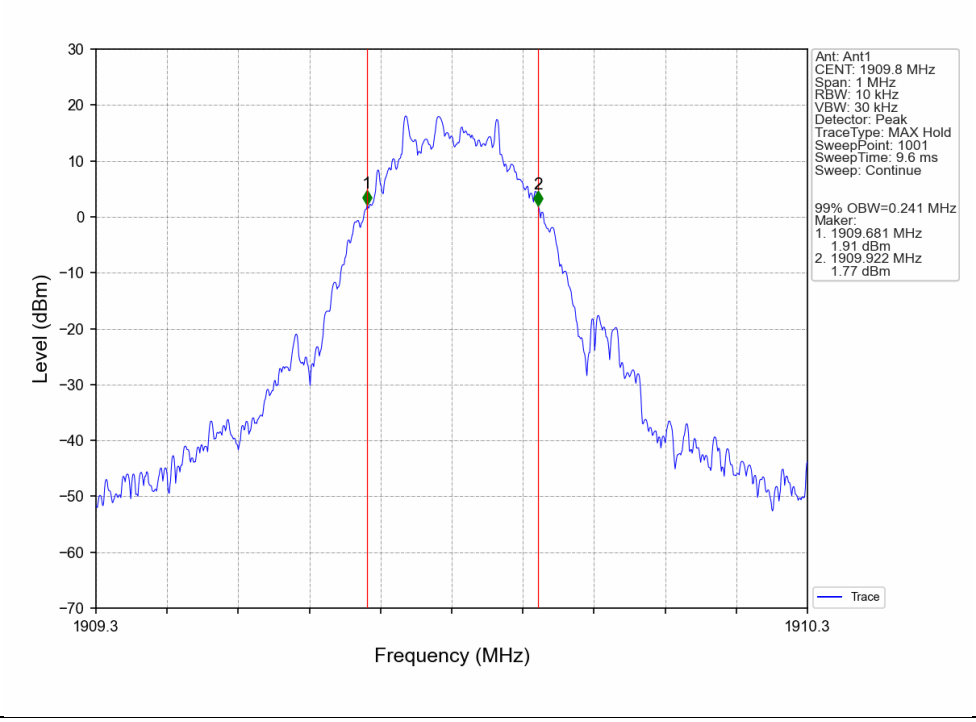
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV

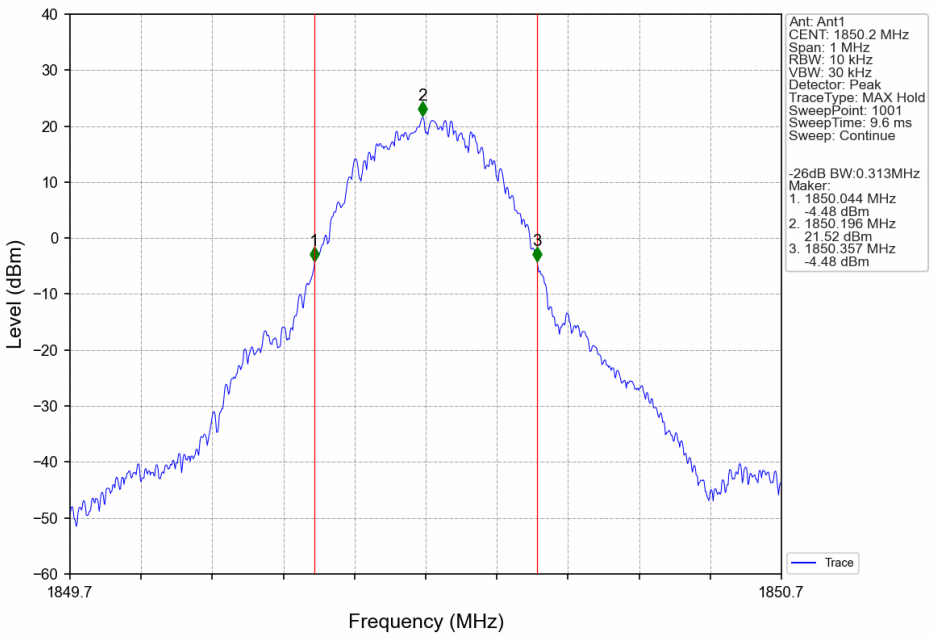


PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV

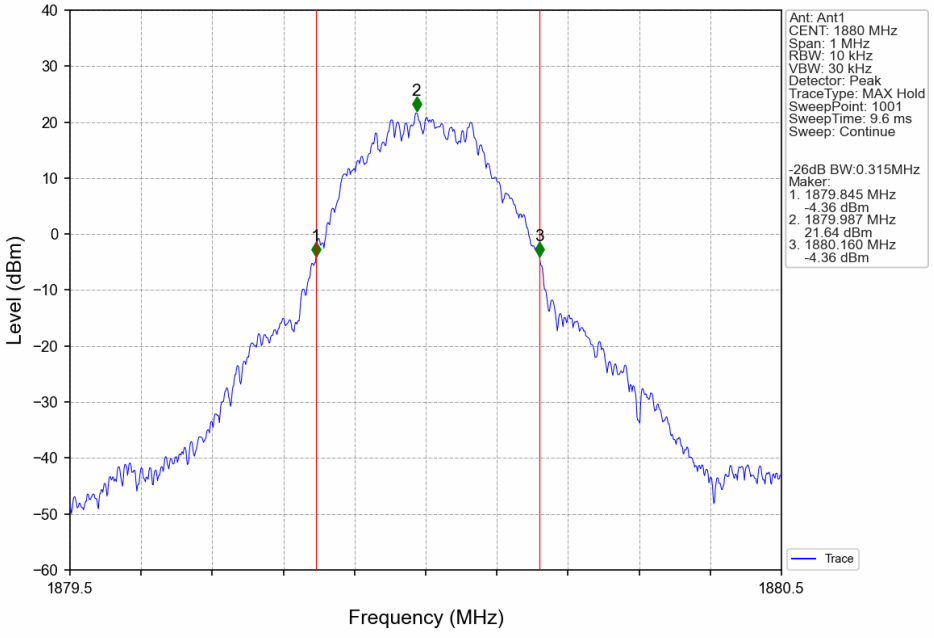


4.2.2 PCS1900_XDB

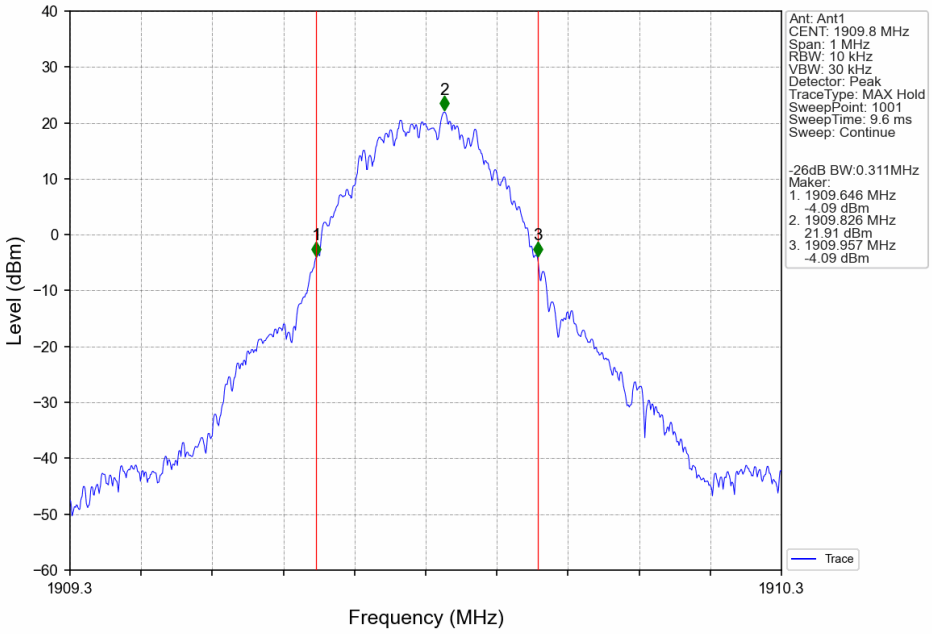
PCS1900_GSM_LCH_1850.2MHz_GSM_NTNV



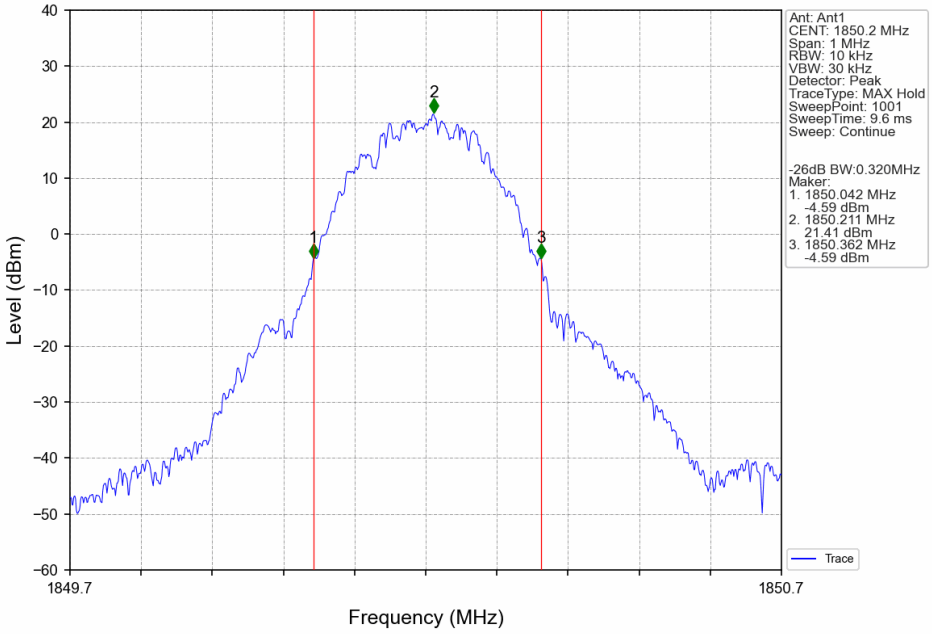
PCS1900_GSM_MCH_1880MHz_GSM_NTNV



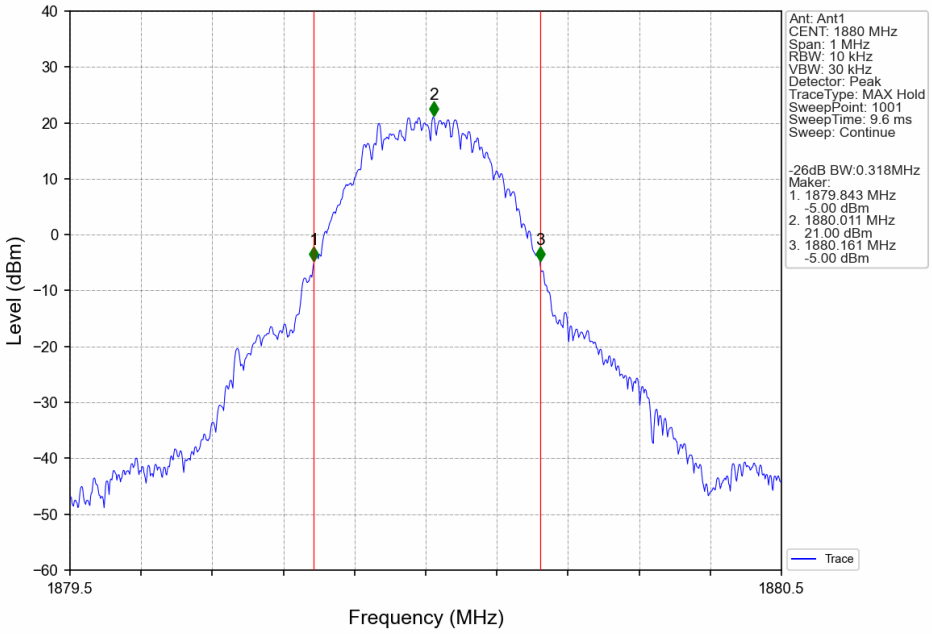
PCS1900_GSM_HCH_1909.8MHz_GSM_NTNV



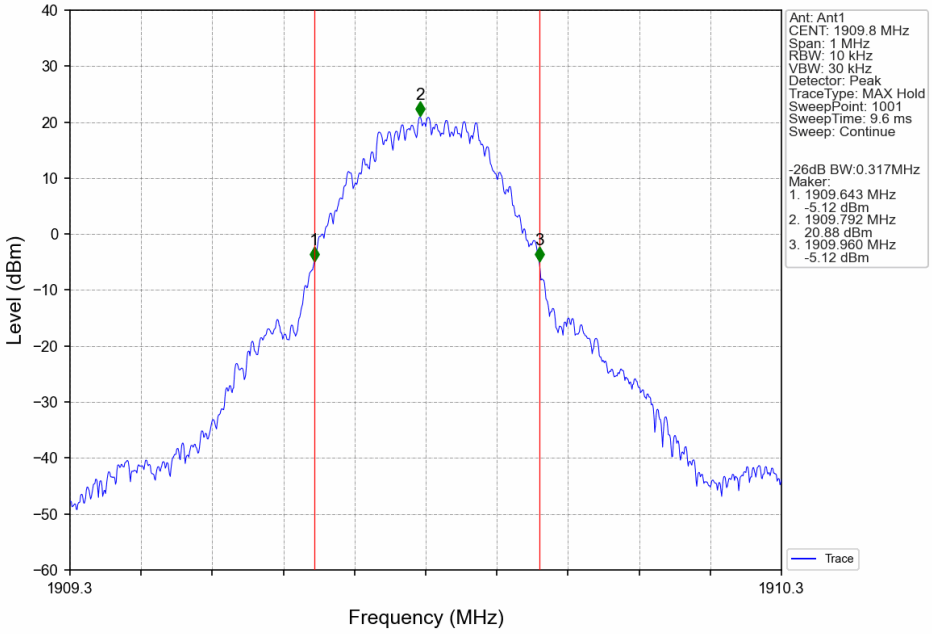
PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



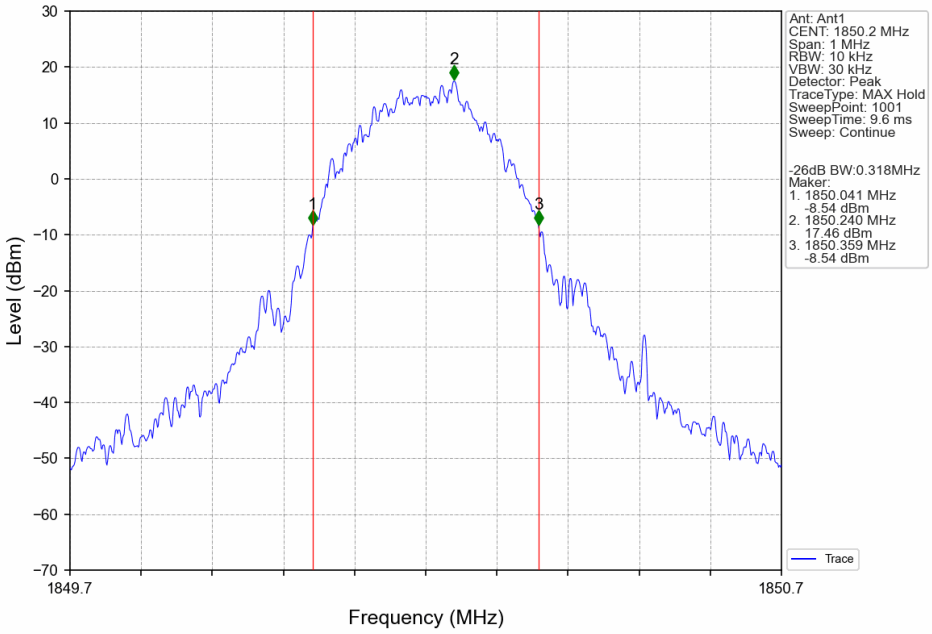
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



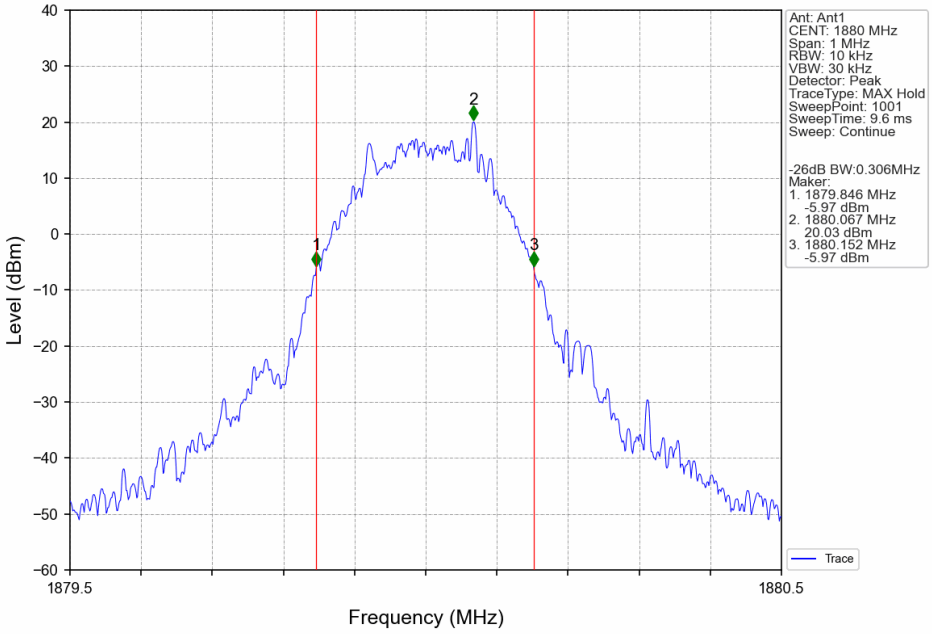
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



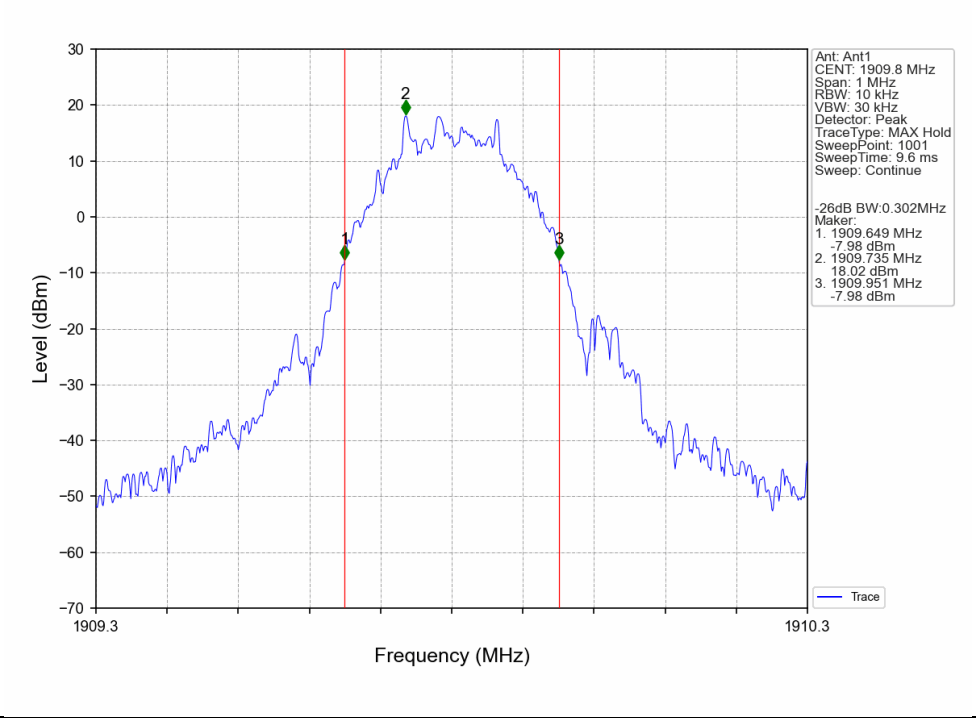
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



5. Peak-Average Ratio

5.1 Test Result

5.1.1 PCS1900

Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	0.65	<=13	Pass
			1880	0.55	<=13	Pass
			1909.8	0.63	<=13	Pass
	GPRS	4 TX Slots	1850.2	0.45	<=13	Pass
			1880	0.49	<=13	Pass
			1909.8	0.50	<=13	Pass
	EGPRS	4 TX Slots	1850.2	0.52	<=13	Pass
			1880	0.55	<=13	Pass
			1909.8	0.51	<=13	Pass

6. Spurious Emission

6.1 Test Result

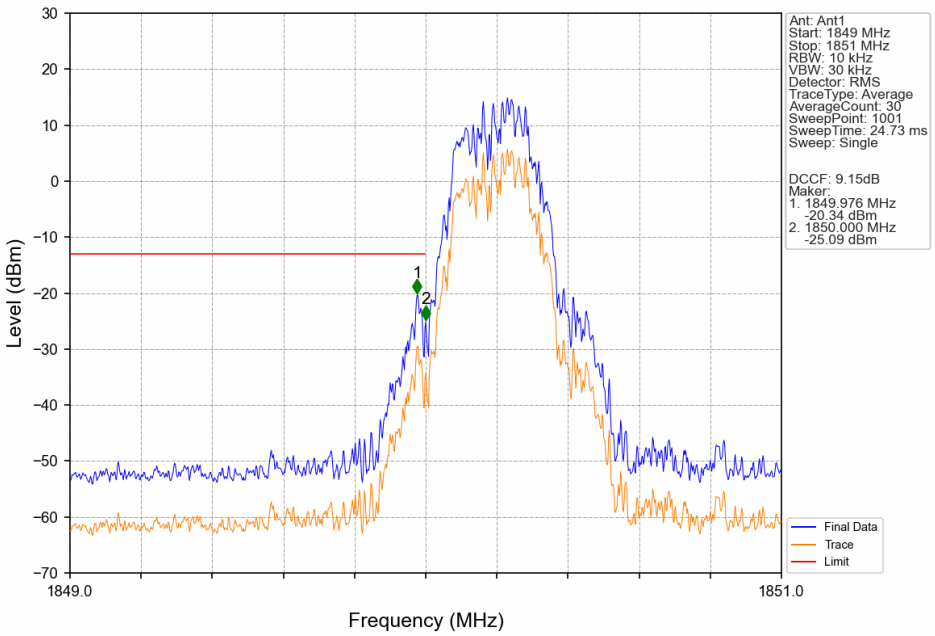
6.1.1 PCS1900

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

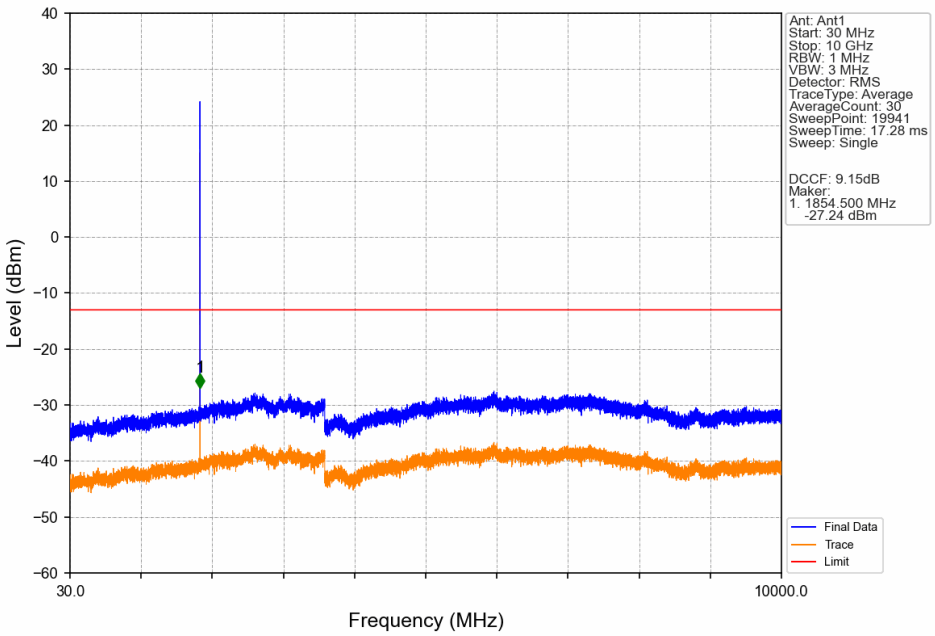
6.2 Test Graph

6.2.1 PCS1900

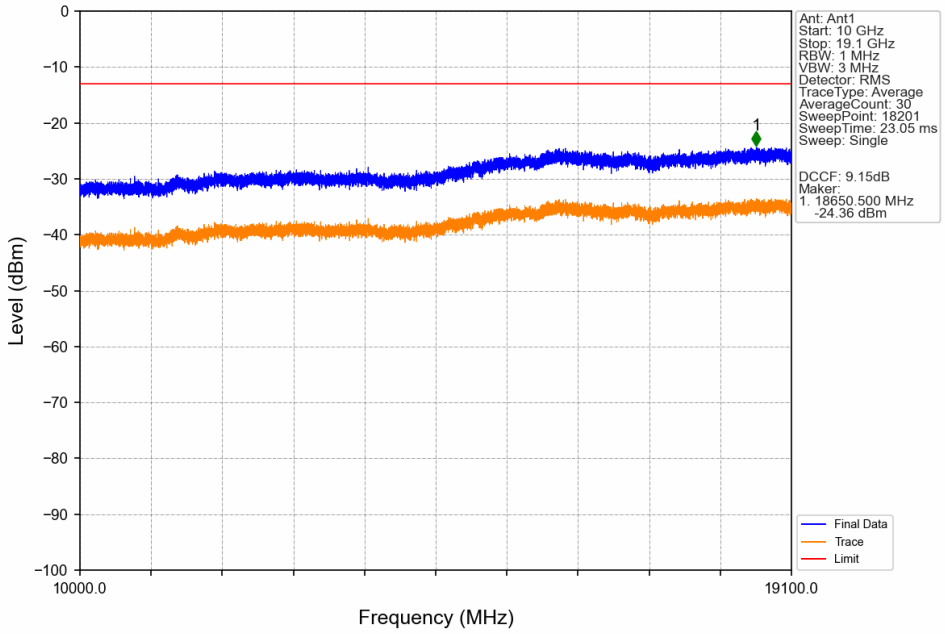
PCS1900_GSM_LCH_1850.2MHz_GSM_NTNV



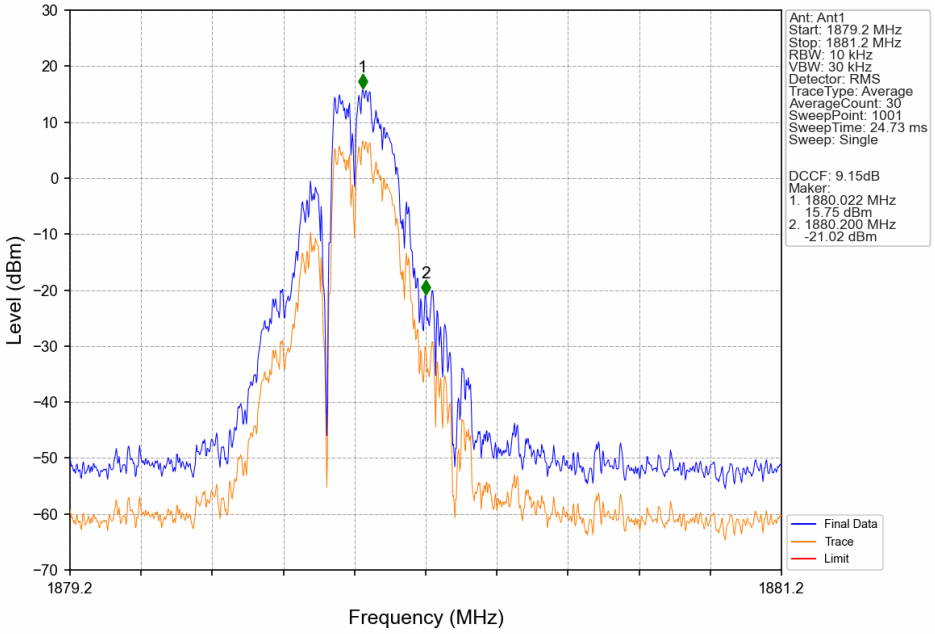
PCS1900_GSM_LCH_1850.2MHz_GSM_NTNV



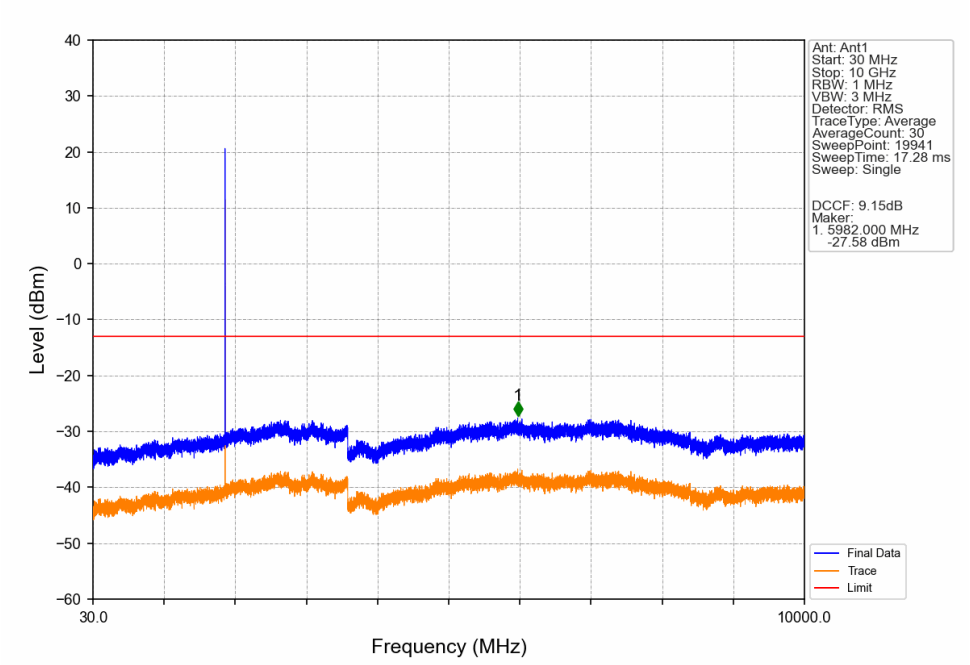
PCS1900_GSM_LCH_1850.2MHz_GSM_NTNV



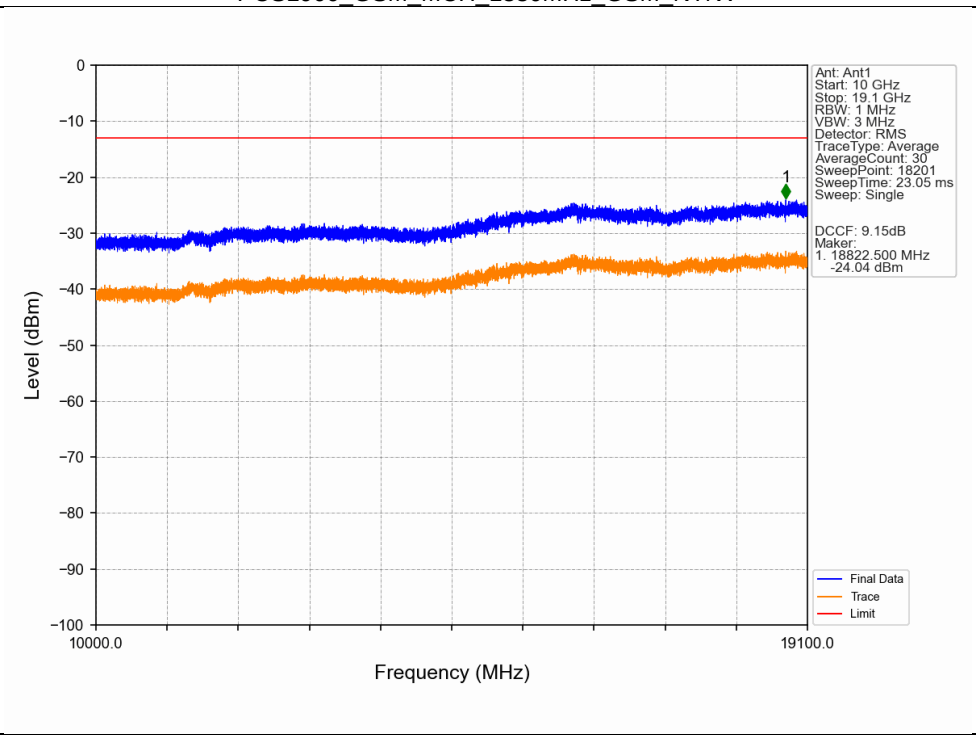
PCS1900_GSM_MCH_1880MHz_GSM_NTNV



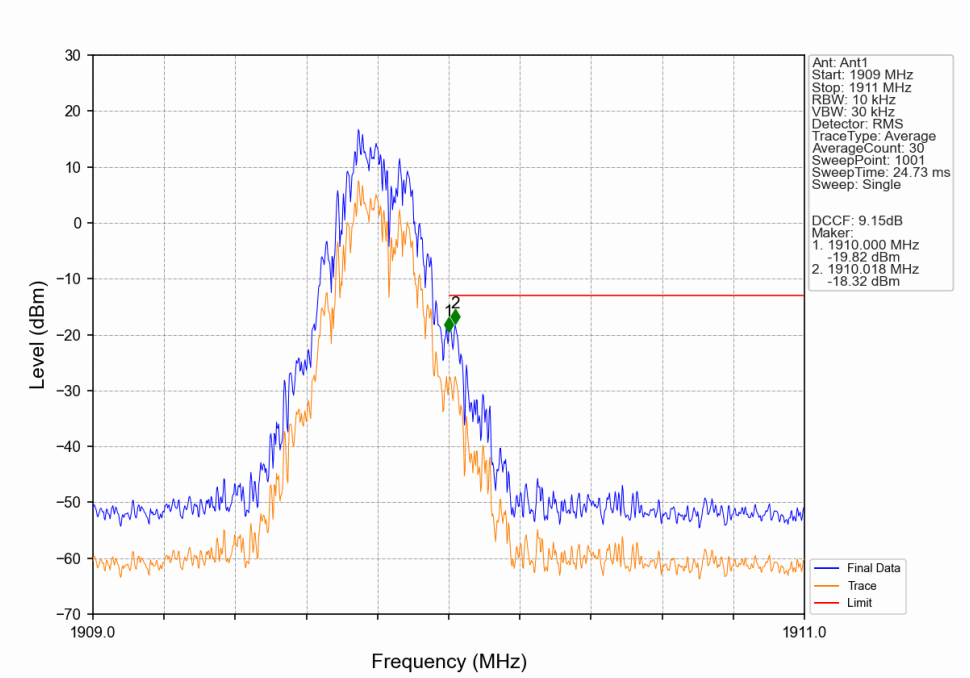
PCS1900_GSM_MCH_1880MHz_GSM_NTNV



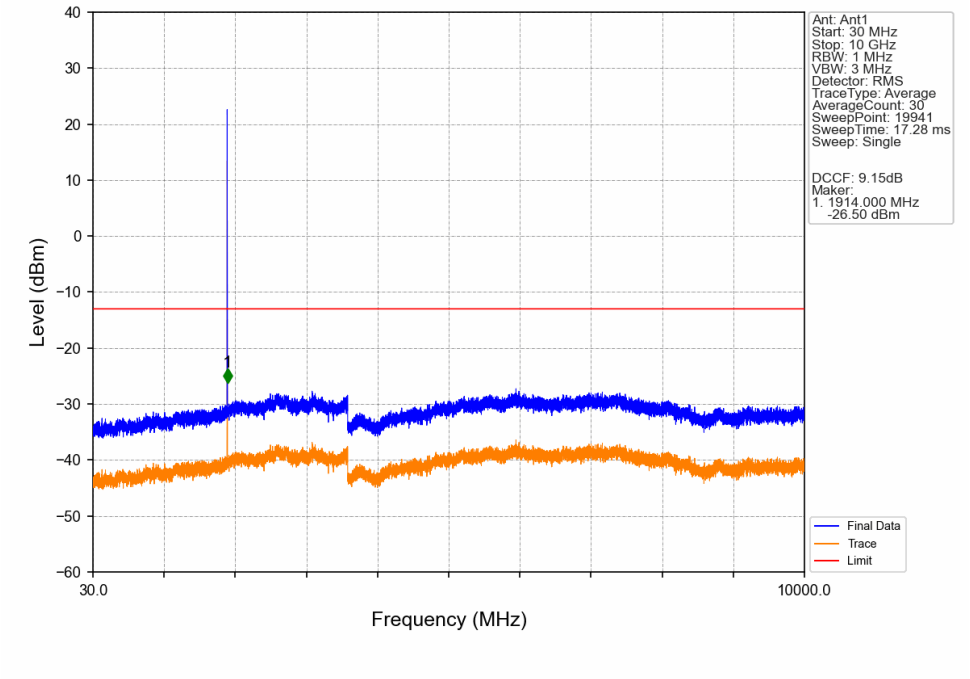
PCS1900_GSM_MCH_1880MHz_GSM_NTNV



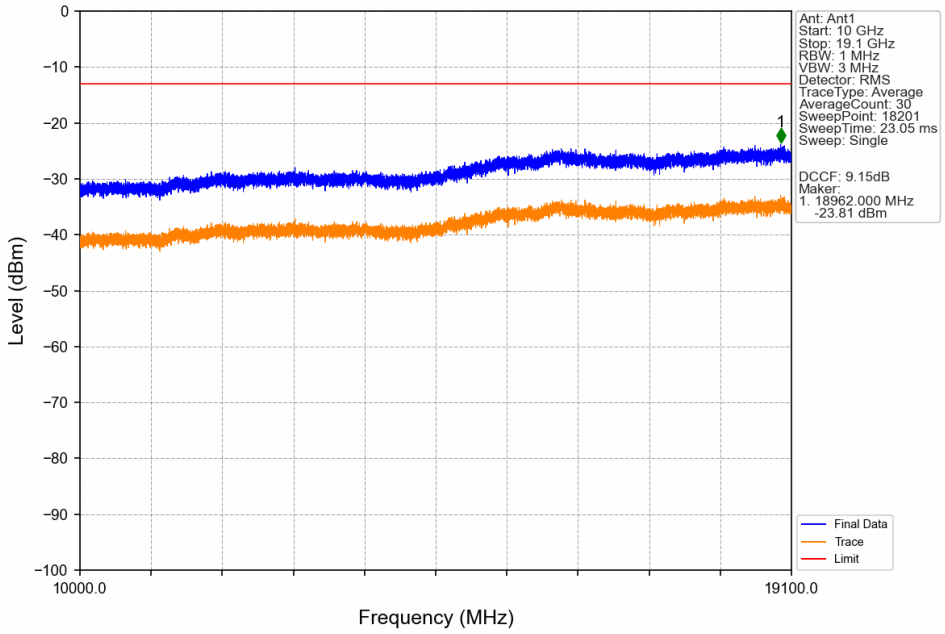
PCS1900_GSM_HCH_1909.8MHz_GSM_NTNV



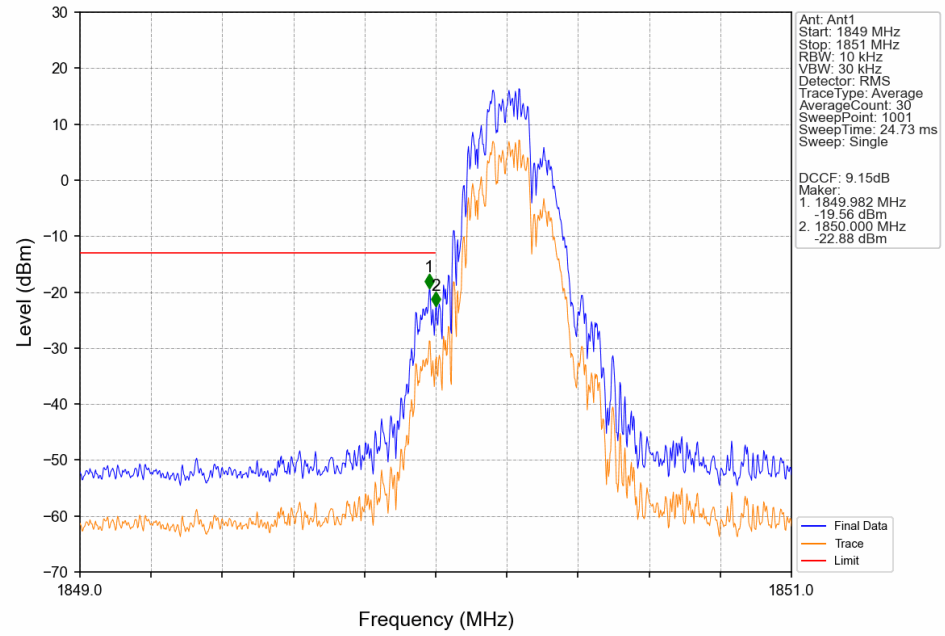
PCS1900_GSM_HCH_1909.8MHz_GSM_NTNV



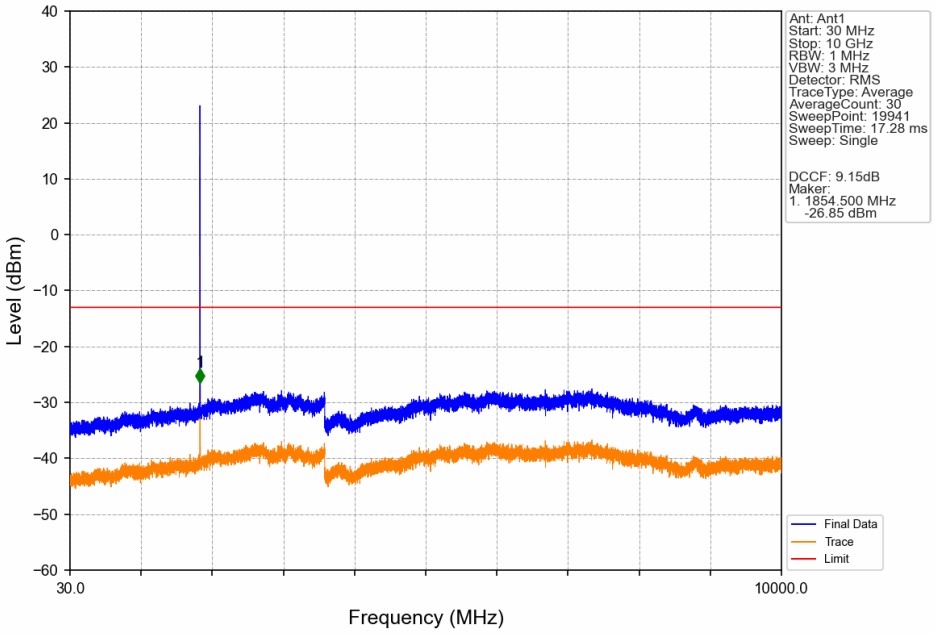
PCS1900_GSM_HCH_1909.8MHz_GSM_NTNV



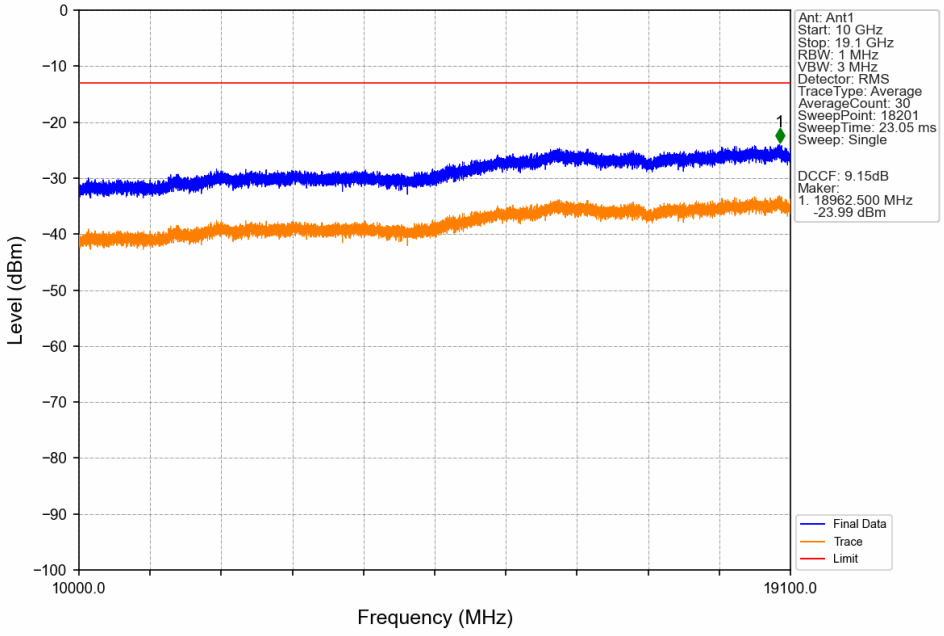
PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



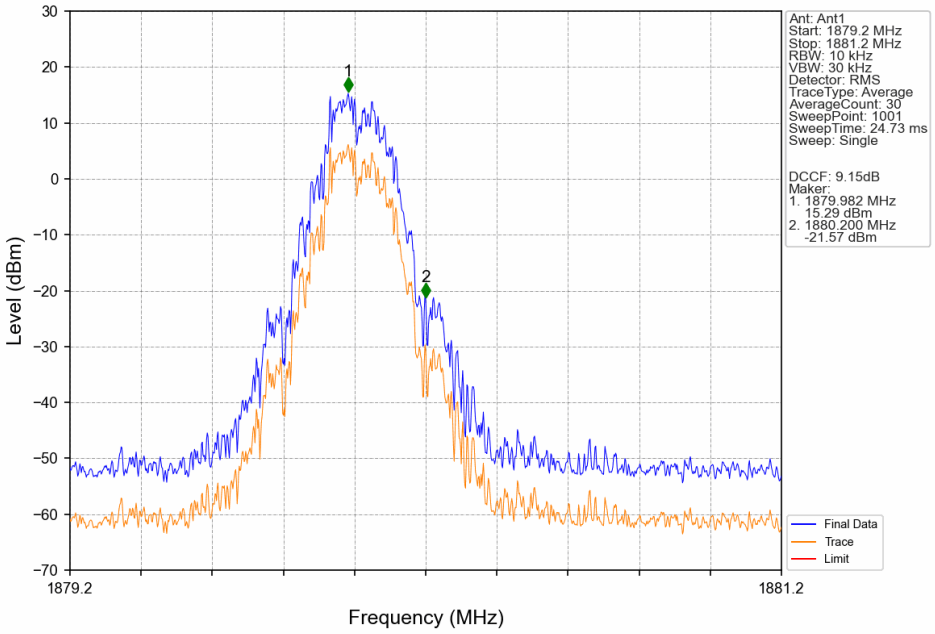
PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



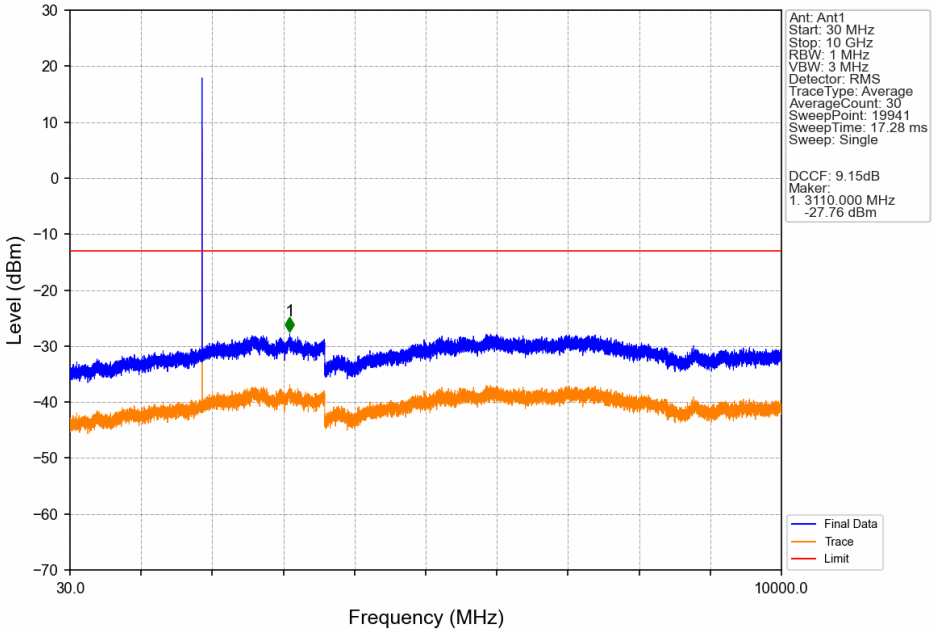
PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



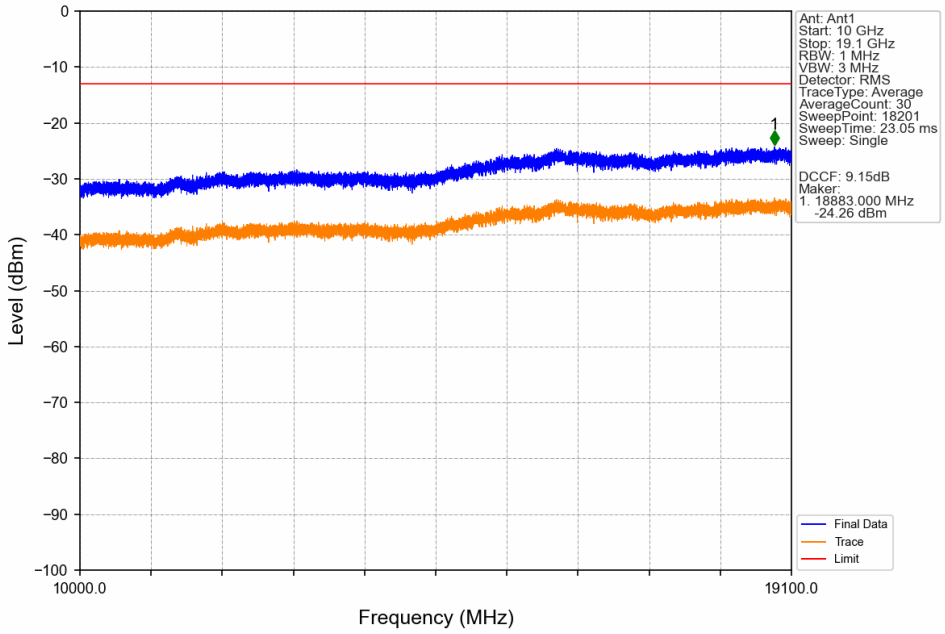
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



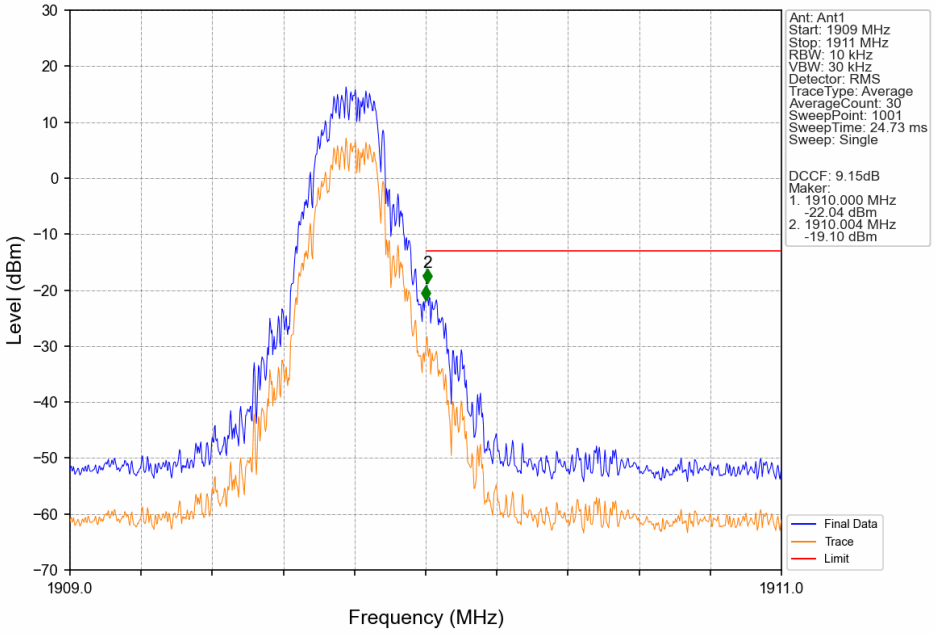
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



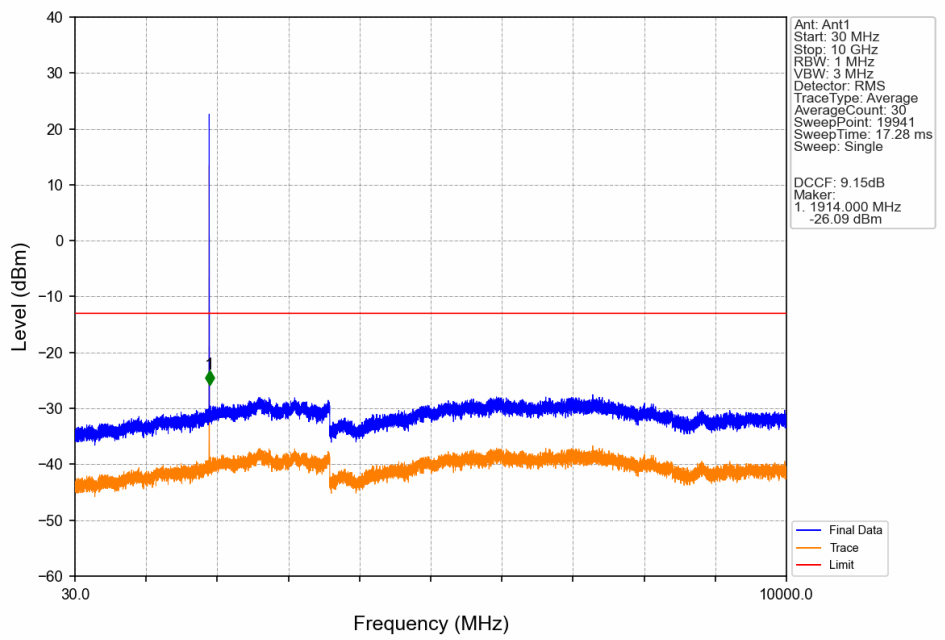
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



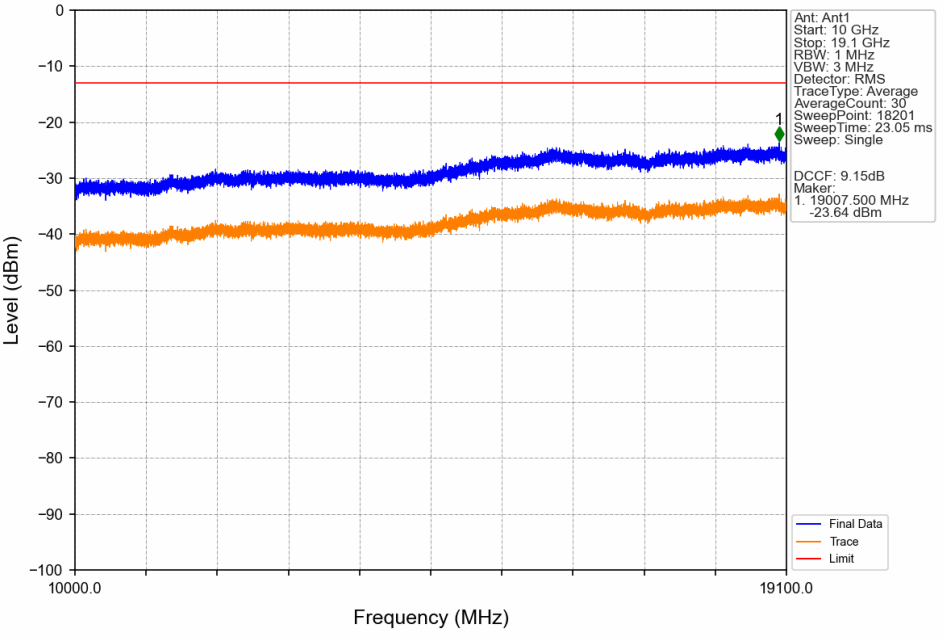
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



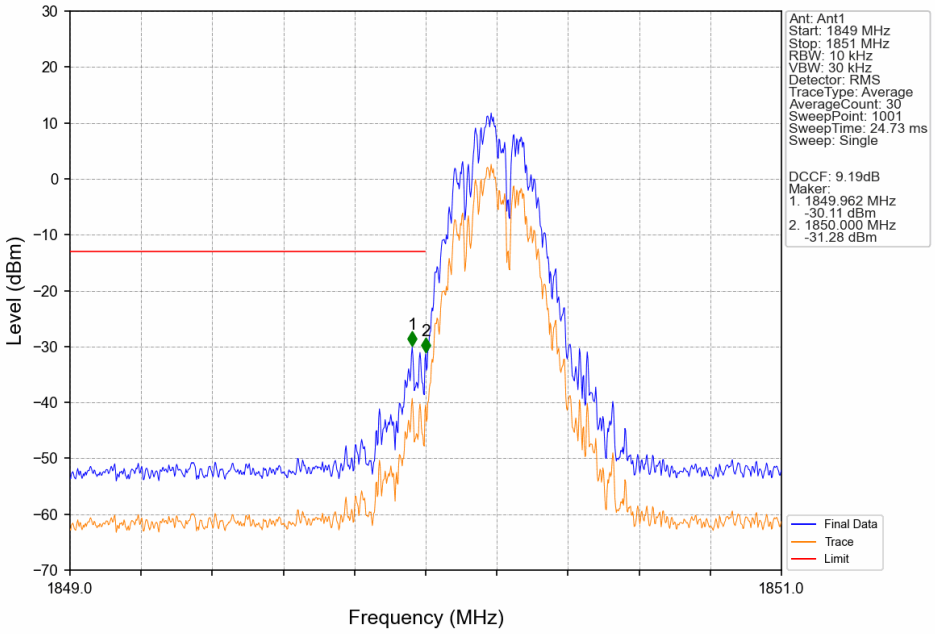
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



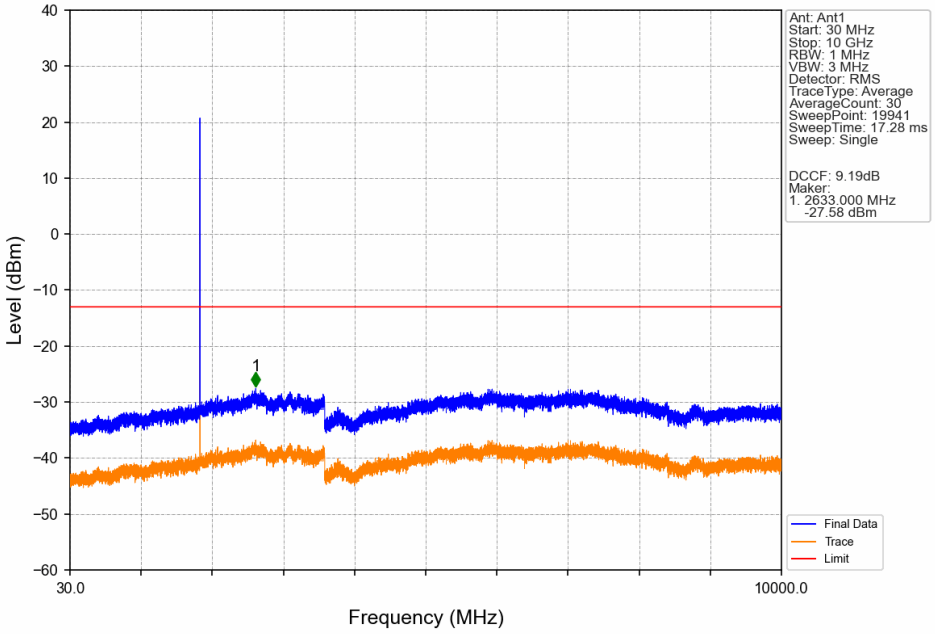
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



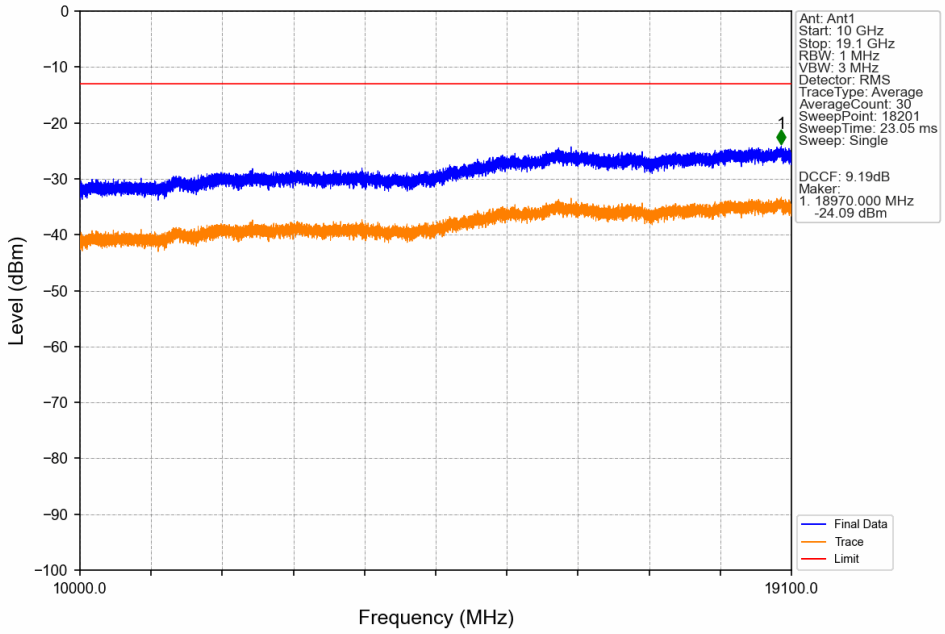
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



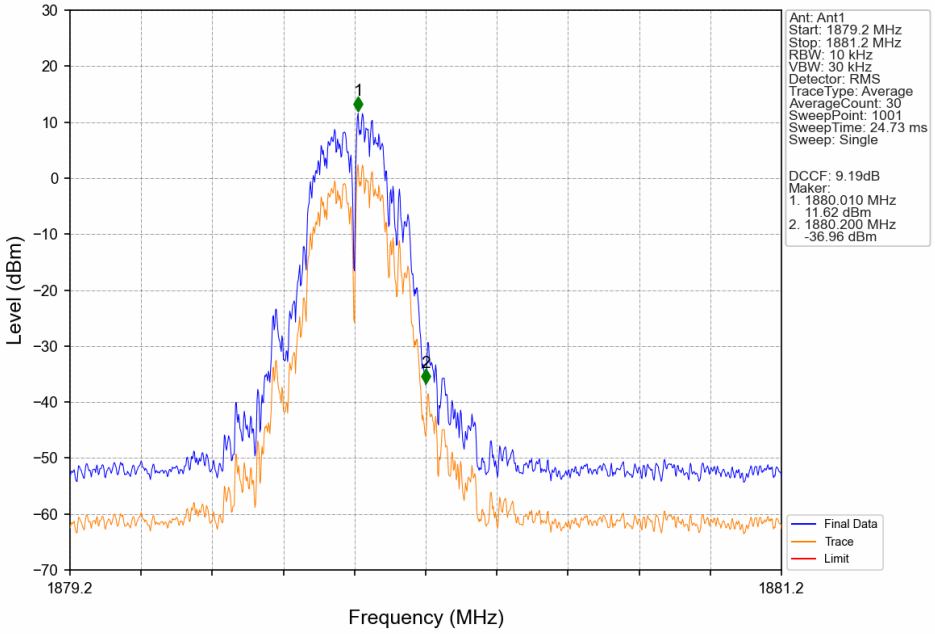
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



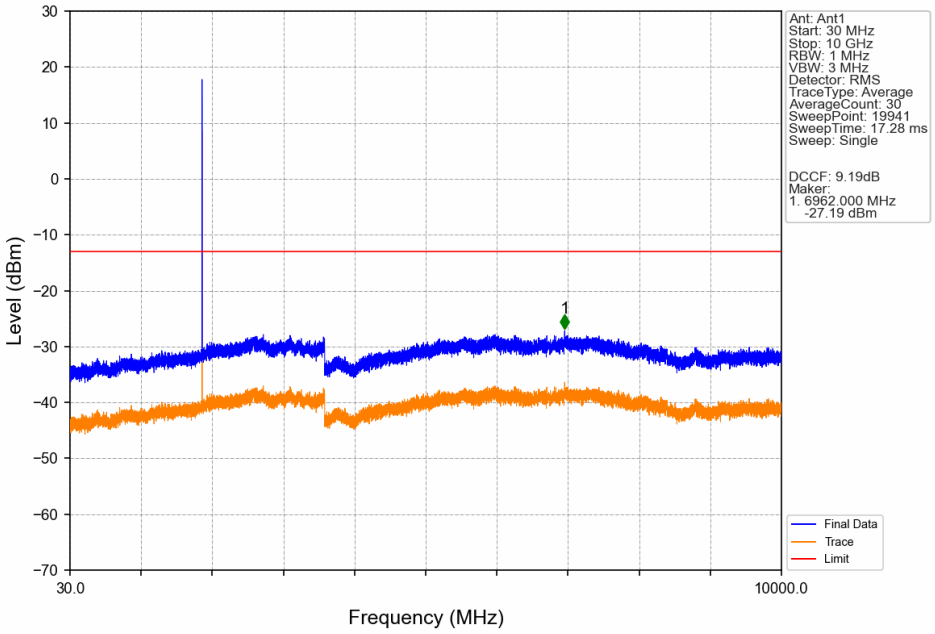
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



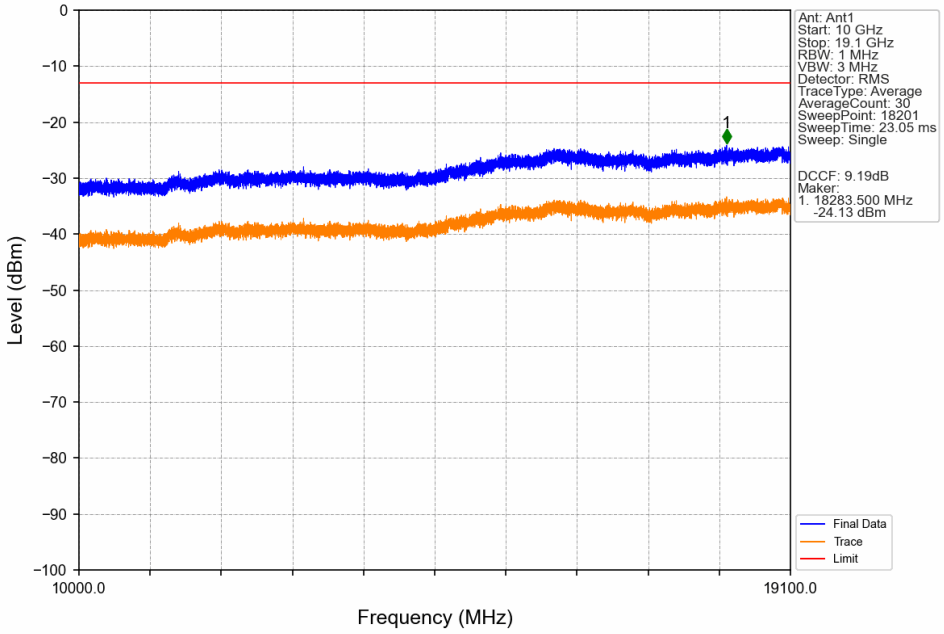
PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



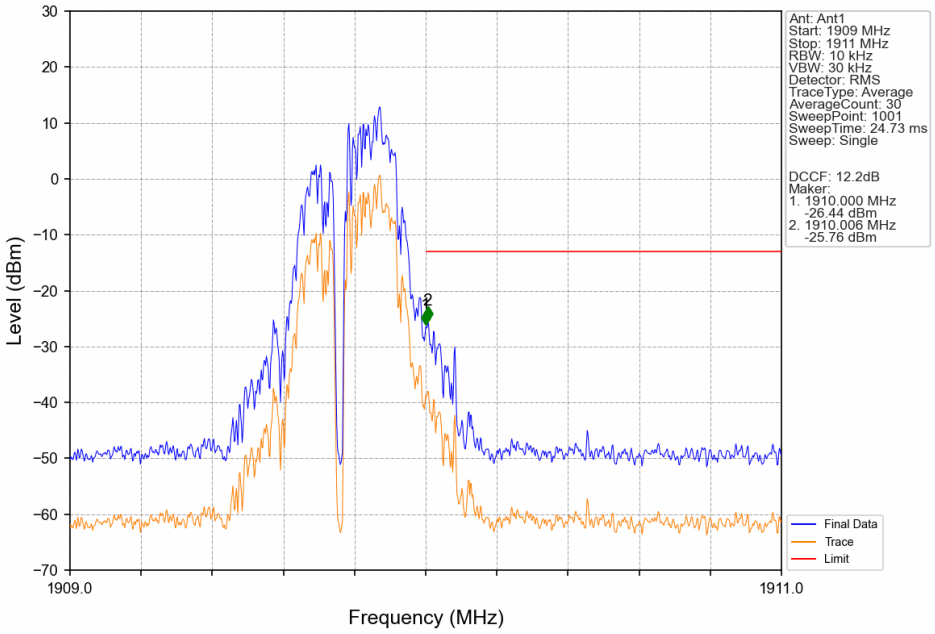
PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



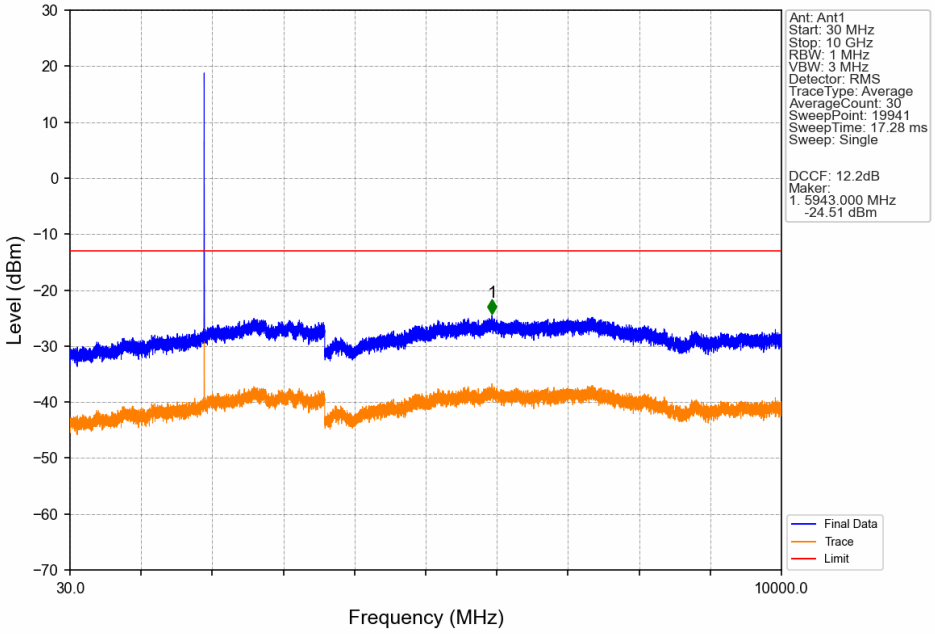
PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



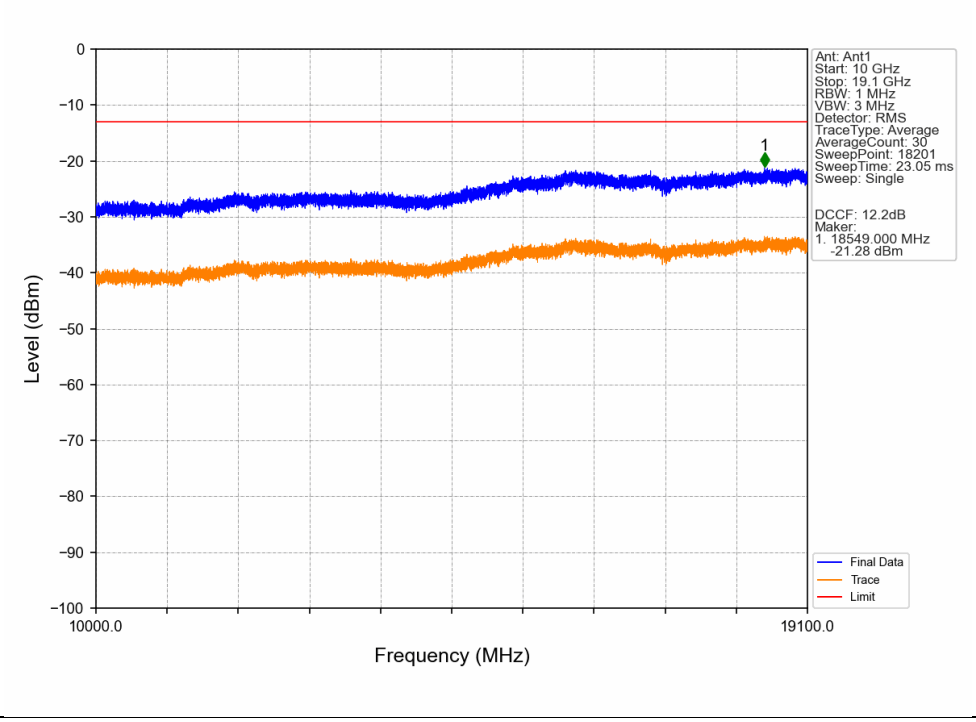
PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



7. Form731

7.1 Test Result

7.1.1 Form731_Power

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	1.1641	0.0106	ppm	246KGXW	24E	30.66
PCS1900	0.2	1850.2	1909.8	0.3819	0.0167	ppm	256KG7W	24E	25.82

7.1.2 Form731_EIRP

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	0.9908	0.0106	ppm	246KGXW	24E	29.96
PCS1900	0.2	1850.2	1909.8	0.3251	0.0167	ppm	256KG7W	24E	25.12