

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	GSM	GSM	1850.2	28.19	-0.5	27.69	<=33.01	Pass	
			1880	28.38	-0.5	27.88	<=33.01	Pass	
			1909.8	28.26	-0.5	27.76	<=33.01	Pass	
	GPRS	1 TX Slot	1850.2	28.21	-0.5	27.71	<=33.01	Pass	
		2 TX Slots	1850.2	25.88	-0.5	25.38	<=33.01	Pass	
		3 TX Slots	1850.2	24.30	-0.5	23.8	<=33.01	Pass	
		4 TX Slots	1850.2	22.37	-0.5	21.87	<=33.01	Pass	
		1 TX Slot	1880	28.40	-0.5	27.9	<=33.01	Pass	
		2 TX Slots	1880	25.84	-0.5	25.34	<=33.01	Pass	
		3 TX Slots	1880	24.28	-0.5	23.78	<=33.01	Pass	
		4 TX Slots	1880	22.30	-0.5	21.8	<=33.01	Pass	
		1 TX Slot	1909.8	28.27	-0.5	27.77	<=33.01	Pass	
		2 TX Slots	1909.8	25.65	-0.5	25.15	<=33.01	Pass	
		3 TX Slots	1909.8	24.09	-0.5	23.59	<=33.01	Pass	
		4 TX Slots	1909.8	22.11	-0.5	21.61	<=33.01	Pass	
		EGPRS	1 TX Slot	1850.2	25.74	-0.5	25.24	<=33.01	Pass
			2 TX Slots	1850.2	24.81	-0.5	24.31	<=33.01	Pass
			3 TX Slots	1850.2	23.28	-0.5	22.78	<=33.01	Pass
			4 TX Slots	1850.2	20.24	-0.5	19.74	<=33.01	Pass
			1 TX Slot	1880	26.23	-0.5	25.73	<=33.01	Pass
			2 TX Slots	1880	25.23	-0.5	24.73	<=33.01	Pass
			3 TX Slots	1880	24.09	-0.5	23.59	<=33.01	Pass
	4 TX Slots		1880	21.31	-0.5	20.81	<=33.01	Pass	
	1 TX Slot		1909.8	24.77	-0.5	24.27	<=33.01	Pass	
	2 TX Slots		1909.8	24.84	-0.5	24.34	<=33.01	Pass	
	3 TX Slots		1909.8	23.33	-0.5	22.83	<=33.01	Pass	
	4 TX Slots		1909.8	20.79	-0.5	20.29	<=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	
GSM	1850.2	20	3.27	-1.97	-0.00	-2.5 to 2.5	Pass
			3.85	-1.58	-0.00	-2.5 to 2.5	Pass
			4.43	-0.77	-0.00	-2.5 to 2.5	Pass
		-30	3.85	1.19	0.00	-2.5 to 2.5	Pass
		-20	3.85	-0.65	-0.00	-2.5 to 2.5	Pass
		-10	3.85	-2.23	-0.00	-2.5 to 2.5	Pass
		0	3.85	-3.39	-0.00	-2.5 to 2.5	Pass
		10	3.85	-1.68	-0.00	-2.5 to 2.5	Pass
		30	3.85	-1.07	-0.00	-2.5 to 2.5	Pass
		40	3.85	5.65	0.00	-2.5 to 2.5	Pass
		50	3.85	3.91	0.00	-2.5 to 2.5	Pass
	1880	20	3.27	2.62	0.00	-2.5 to 2.5	Pass
			3.85	2.13	0.00	-2.5 to 2.5	Pass
			4.43	3.10	0.00	-2.5 to 2.5	Pass
		-30	3.85	2.45	0.00	-2.5 to 2.5	Pass
		-20	3.85	-8.30	-0.00	-2.5 to 2.5	Pass
		-10	3.85	1.52	0.00	-2.5 to 2.5	Pass
		0	3.85	14.14	0.01	-2.5 to 2.5	Pass
		10	3.85	-4.71	-0.00	-2.5 to 2.5	Pass
		30	3.85	3.13	0.00	-2.5 to 2.5	Pass
		40	3.85	2.87	0.00	-2.5 to 2.5	Pass
		50	3.85	-3.68	-0.00	-2.5 to 2.5	Pass
	1909.8	20	3.27	0.39	0.00	-2.5 to 2.5	Pass
			3.85	5.91	0.00	-2.5 to 2.5	Pass
			4.43	4.42	0.00	-2.5 to 2.5	Pass
		-30	3.85	-1.10	-0.00	-2.5 to 2.5	Pass
		-20	3.85	5.88	0.00	-2.5 to 2.5	Pass
		-10	3.85	-12.33	-0.01	-2.5 to 2.5	Pass
		0	3.85	-13.37	-0.01	-2.5 to 2.5	Pass
		10	3.85	-8.62	-0.00	-2.5 to 2.5	Pass
		30	3.85	-19.76	-0.01	-2.5 to 2.5	Pass
		40	3.85	5.20	0.00	-2.5 to 2.5	Pass
		50	3.85	6.17	0.00	-2.5 to 2.5	Pass
GPRS	1850.2	20	3.27	3.23	0.00	-2.5 to 2.5	Pass
			3.85	-5.07	-0.00	-2.5 to 2.5	Pass
			4.43	3.52	0.00	-2.5 to 2.5	Pass
		-30	3.85	-3.75	-0.00	-2.5 to 2.5	Pass
		-20	3.85	3.75	0.00	-2.5 to 2.5	Pass
		-10	3.85	3.78	0.00	-2.5 to 2.5	Pass
		0	3.85	2.87	0.00	-2.5 to 2.5	Pass
		10	3.85	-2.13	-0.00	-2.5 to 2.5	Pass
		30	3.85	4.36	0.00	-2.5 to 2.5	Pass
		40	3.85	3.81	0.00	-2.5 to 2.5	Pass
		50	3.85	-7.65	-0.00	-2.5 to 2.5	Pass
	1880	20	3.27	1.65	0.00	-2.5 to 2.5	Pass
			3.85	1.94	0.00	-2.5 to 2.5	Pass

			4.43	1.71	0.00	-2.5 to 2.5	Pass
		-30	3.85	2.29	0.00	-2.5 to 2.5	Pass
		-20	3.85	1.55	0.00	-2.5 to 2.5	Pass
		-10	3.85	2.74	0.00	-2.5 to 2.5	Pass
		0	3.85	2.68	0.00	-2.5 to 2.5	Pass
		10	3.85	-3.20	-0.00	-2.5 to 2.5	Pass
		30	3.85	1.00	0.00	-2.5 to 2.5	Pass
		40	3.85	5.39	0.00	-2.5 to 2.5	Pass
		50	3.85	2.03	0.00	-2.5 to 2.5	Pass
	1909.8	20	3.27	4.52	0.00	-2.5 to 2.5	Pass
			3.85	2.74	0.00	-2.5 to 2.5	Pass
			4.43	-3.52	-0.00	-2.5 to 2.5	Pass
		-30	3.85	0.42	0.00	-2.5 to 2.5	Pass
		-20	3.85	3.03	0.00	-2.5 to 2.5	Pass
		-10	3.85	-5.81	-0.00	-2.5 to 2.5	Pass
		0	3.85	1.10	0.00	-2.5 to 2.5	Pass
		10	3.85	3.07	0.00	-2.5 to 2.5	Pass
		30	3.85	2.62	0.00	-2.5 to 2.5	Pass
		40	3.85	2.55	0.00	-2.5 to 2.5	Pass
		50	3.85	-21.50	-0.01	-2.5 to 2.5	Pass
EGPRS	1850.2	20	3.27	0.84	0.00	-2.5 to 2.5	Pass
			3.85	0.36	0.00	-2.5 to 2.5	Pass
			4.43	0.65	0.00	-2.5 to 2.5	Pass
		-30	3.85	0.84	0.00	-2.5 to 2.5	Pass
		-20	3.85	-4.29	-0.00	-2.5 to 2.5	Pass
		-10	3.85	-4.49	-0.00	-2.5 to 2.5	Pass
		0	3.85	0.10	0.00	-2.5 to 2.5	Pass
		10	3.85	3.87	0.00	-2.5 to 2.5	Pass
		30	3.85	1.00	0.00	-2.5 to 2.5	Pass
		40	3.85	-0.19	-0.00	-2.5 to 2.5	Pass
		50	3.85	-6.97	-0.00	-2.5 to 2.5	Pass
	1880	20	3.27	2.13	0.00	-2.5 to 2.5	Pass
			3.85	-7.55	-0.00	-2.5 to 2.5	Pass
			4.43	-2.97	-0.00	-2.5 to 2.5	Pass
		-30	3.85	-2.13	-0.00	-2.5 to 2.5	Pass
		-20	3.85	-3.20	-0.00	-2.5 to 2.5	Pass
		-10	3.85	4.62	0.00	-2.5 to 2.5	Pass
		0	3.85	-4.55	-0.00	-2.5 to 2.5	Pass
		10	3.85	9.40	0.01	-2.5 to 2.5	Pass
		30	3.85	-3.71	-0.00	-2.5 to 2.5	Pass
		40	3.85	9.33	0.01	-2.5 to 2.5	Pass
		50	3.85	-1.45	-0.00	-2.5 to 2.5	Pass
	1909.8	20	3.27	4.97	0.00	-2.5 to 2.5	Pass
			3.85	-12.85	-0.01	-2.5 to 2.5	Pass
			4.43	-16.66	-0.01	-2.5 to 2.5	Pass
		-30	3.85	-17.08	-0.01	-2.5 to 2.5	Pass
		-20	3.85	-17.82	-0.01	-2.5 to 2.5	Pass
		-10	3.85	-18.24	-0.01	-2.5 to 2.5	Pass
		0	3.85	-9.78	-0.01	-2.5 to 2.5	Pass
		10	3.85	-5.29	-0.00	-2.5 to 2.5	Pass
		30	3.85	-2.00	-0.00	-2.5 to 2.5	Pass
		40	3.85	-19.86	-0.01	-2.5 to 2.5	Pass
		50	3.85	-8.78	-0.00	-2.5 to 2.5	Pass

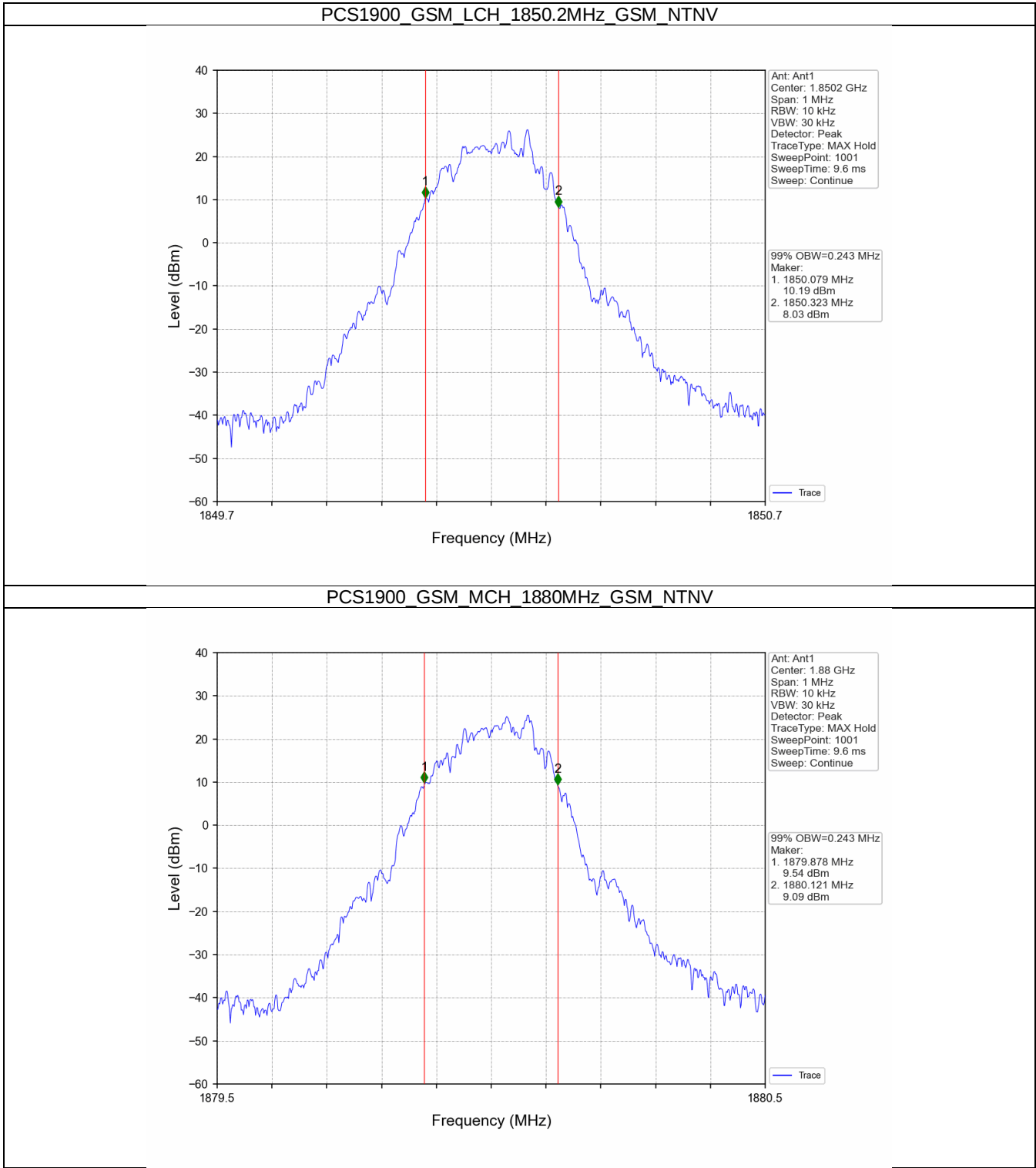
3. 99% & 26dB Bandwidth

3.1 PCS1900_OBW

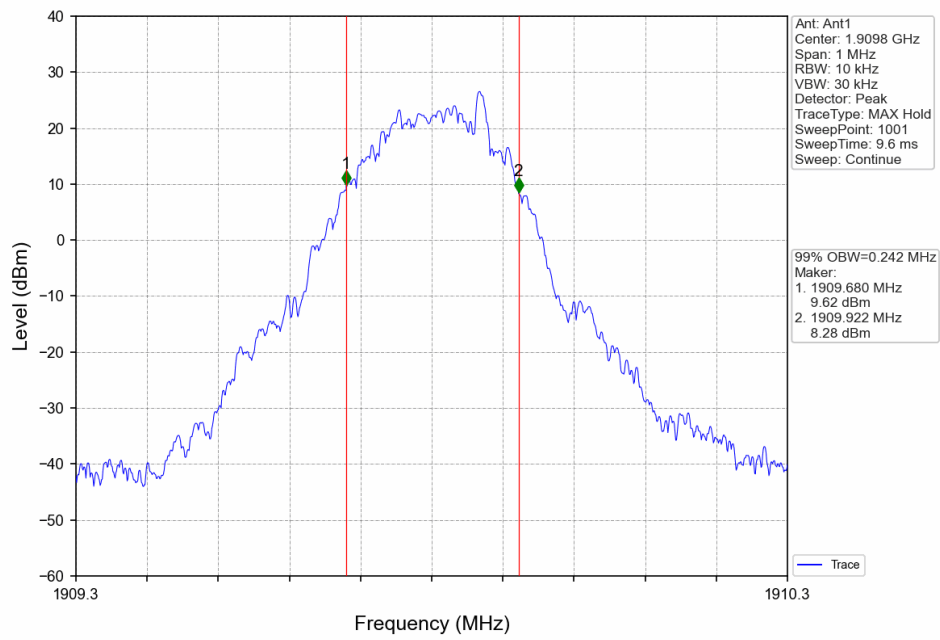
3.1.1 Test Result

Band: PCS1900					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GSM	GSM	1850.2	0.243	Pass
			1880	0.243	Pass
			1909.8	0.242	Pass
	GPRS	1 TX Slot	1850.2	0.241	Pass
			1880	0.243	Pass
			1909.8	0.247	Pass
	EGPRS	1 TX Slot	1850.2	0.245	Pass
			1880	0.243	Pass
			1909.8	0.245	Pass

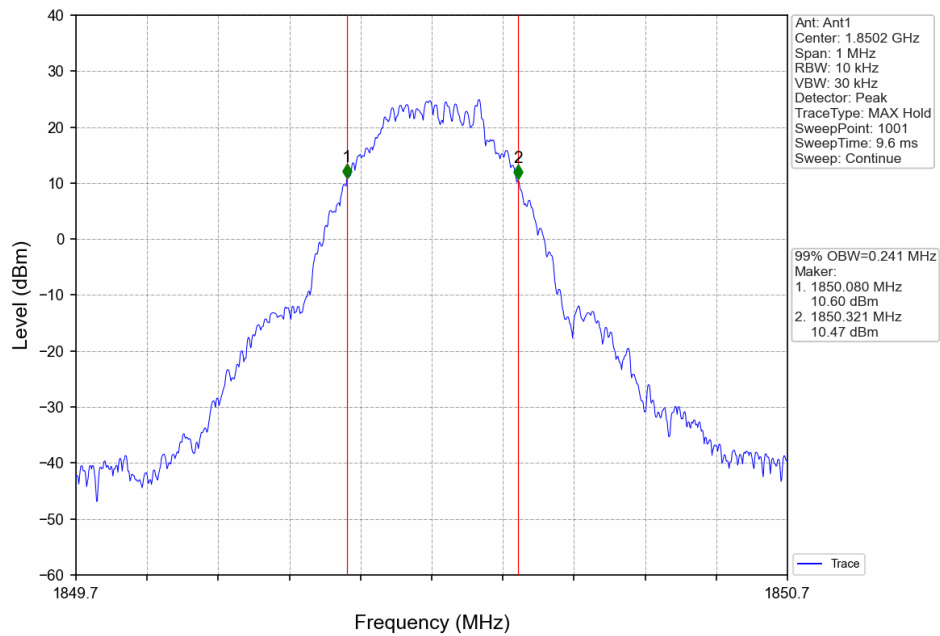
3.1.2 Test Graph



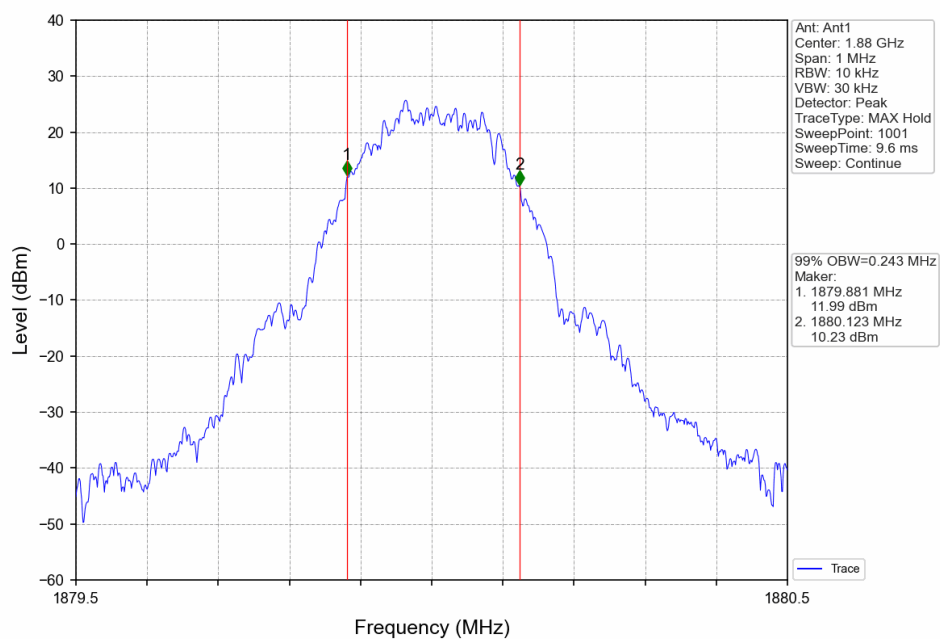
PCS1900 GSM_HCH_1909.8MHz_GSM_NTNV



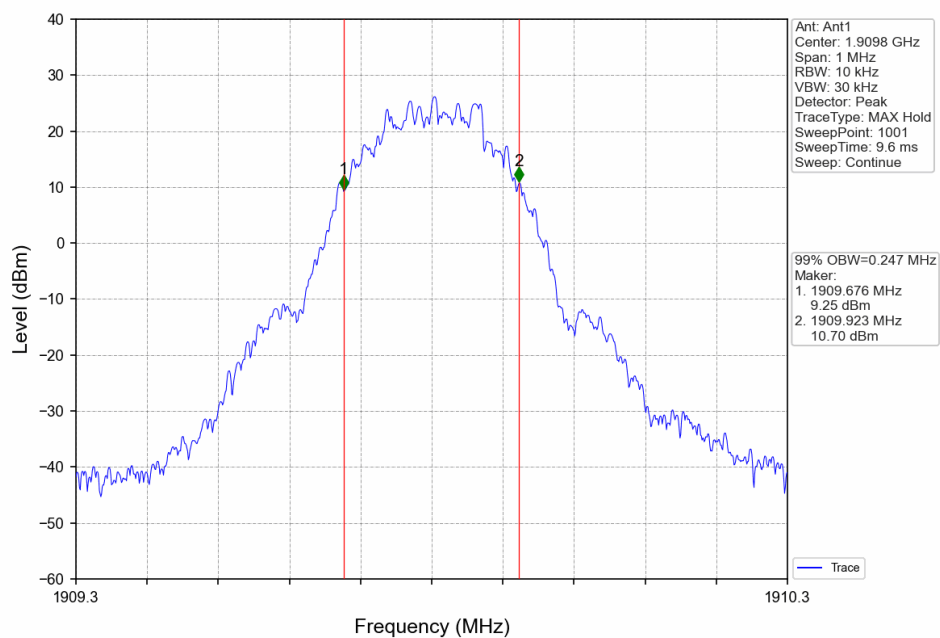
PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



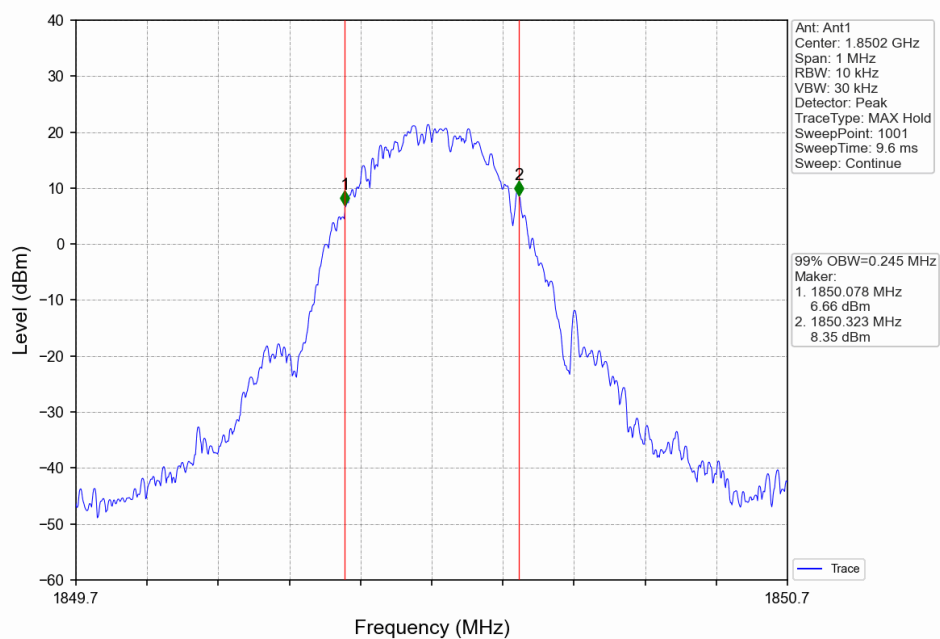
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



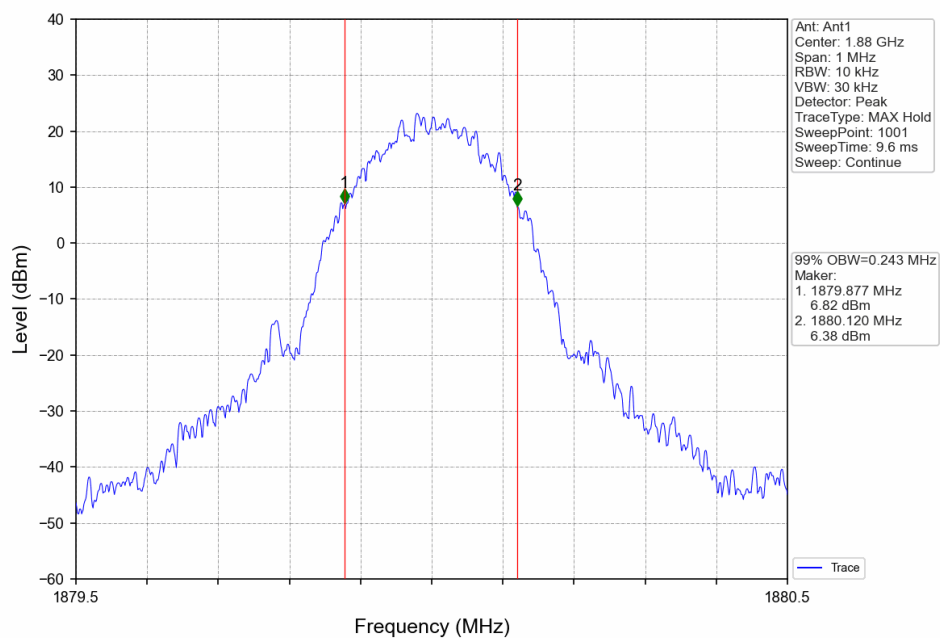
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



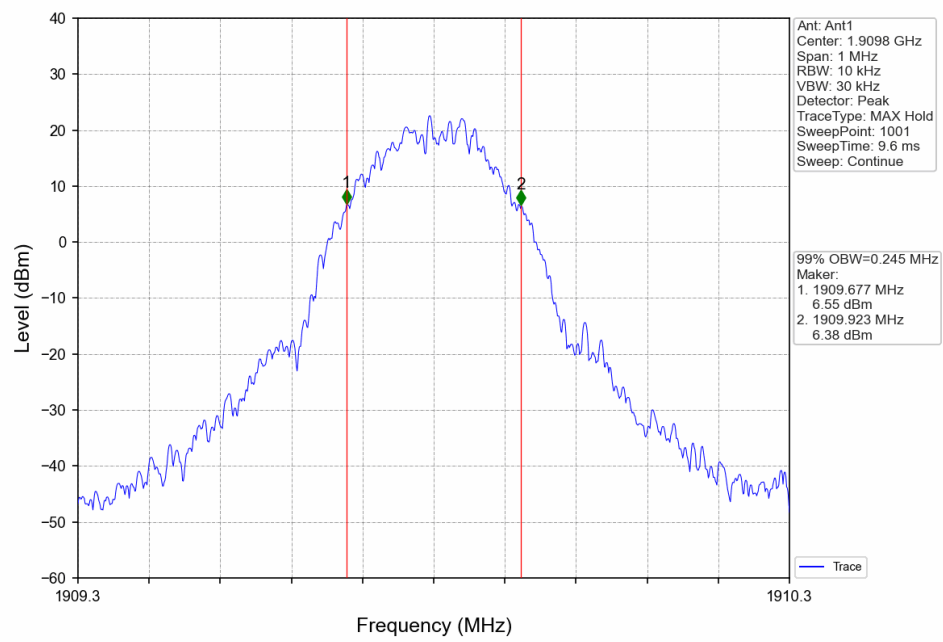
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot_NTNV

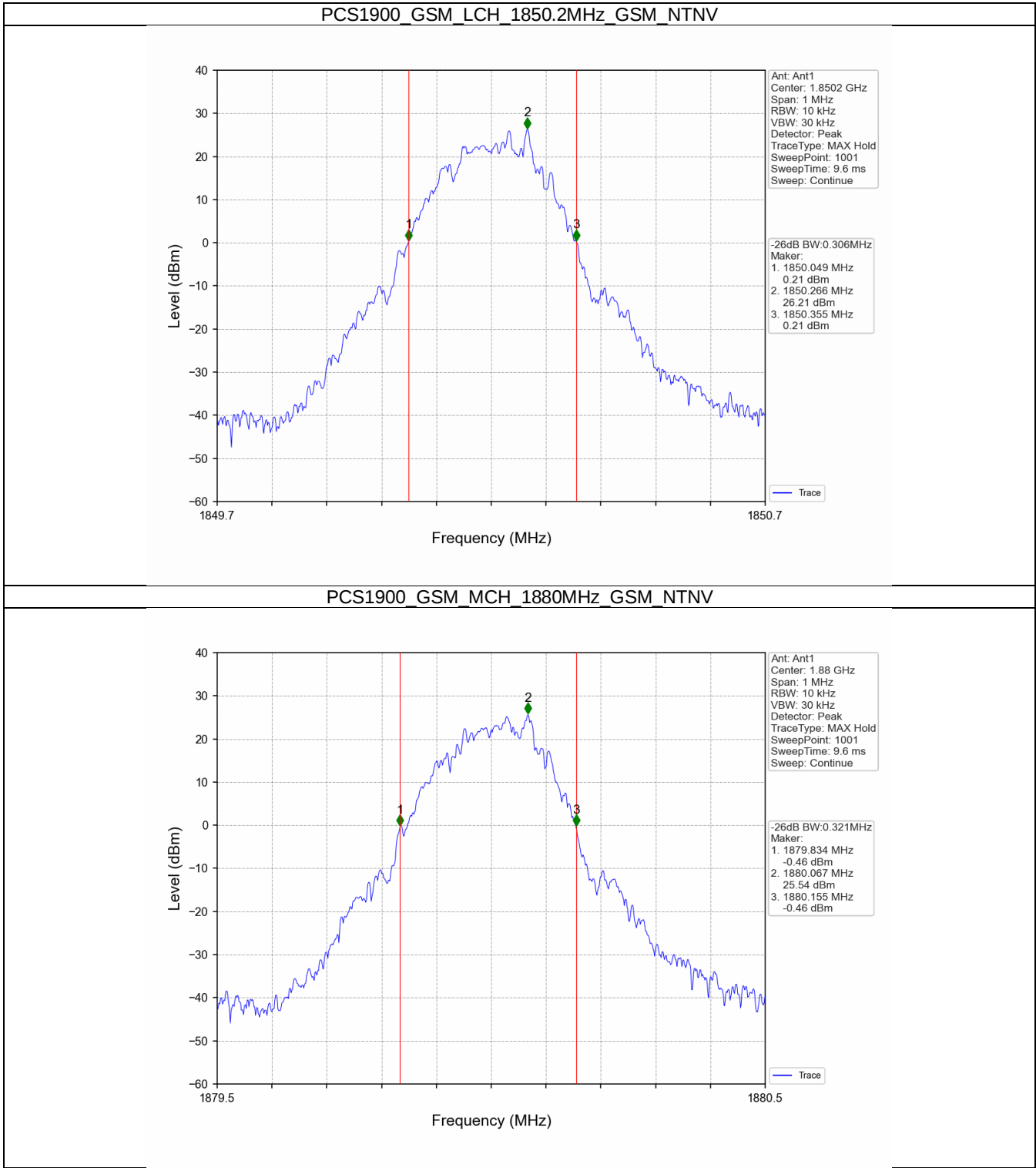


3.2 PCS1900_XDB

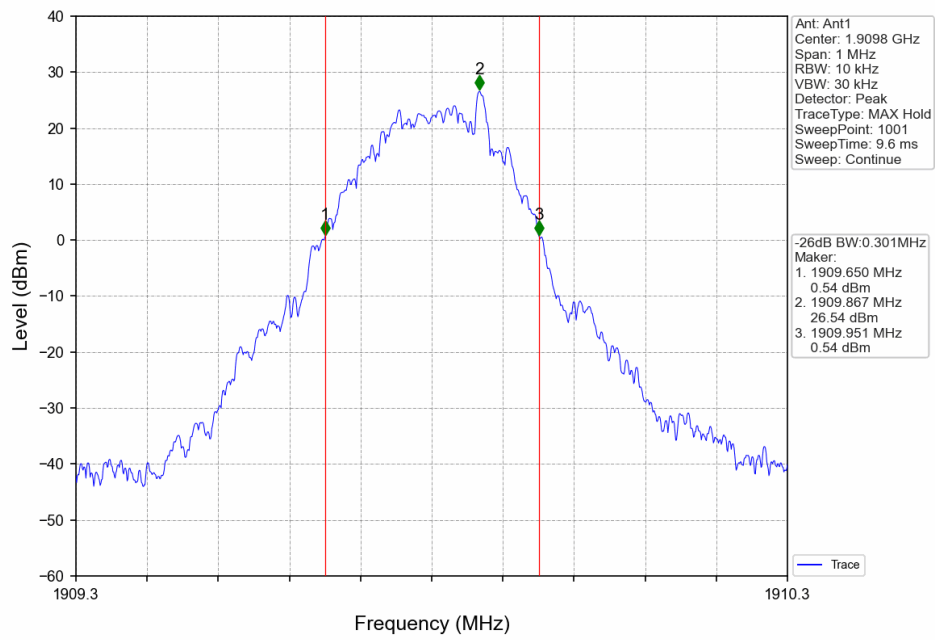
3.2.1 Test Result

Band: PCS1900					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GSM	GSM	1850.2	0.306	Pass
			1880	0.321	Pass
			1909.8	0.301	Pass
	GPRS	1 TX Slot	1850.2	0.319	Pass
			1880	0.323	Pass
			1909.8	0.312	Pass
	EGPRS	1 TX Slot	1850.2	0.315	Pass
			1880	0.308	Pass
			1909.8	0.319	Pass

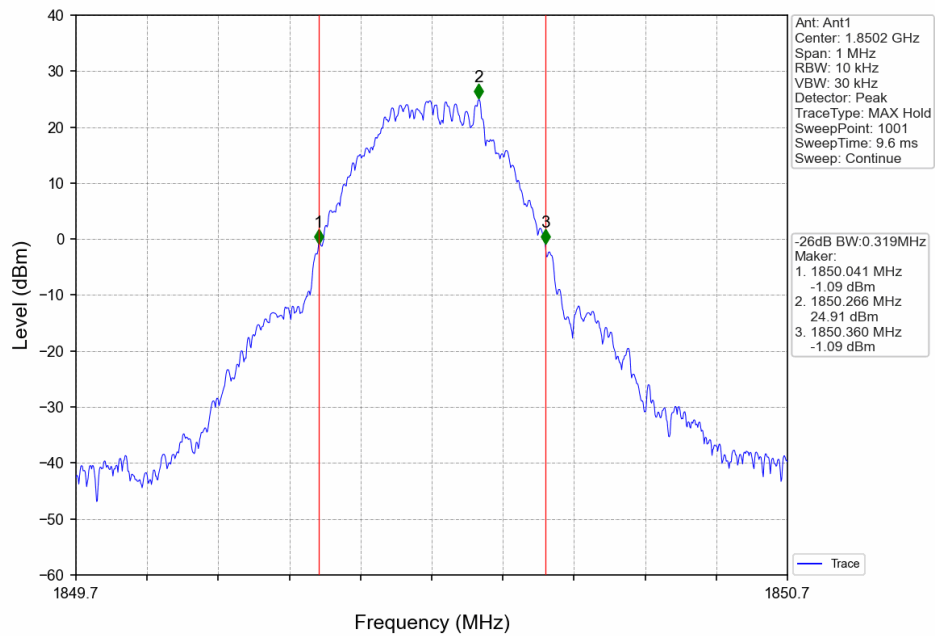
3.2.2 Test Graph



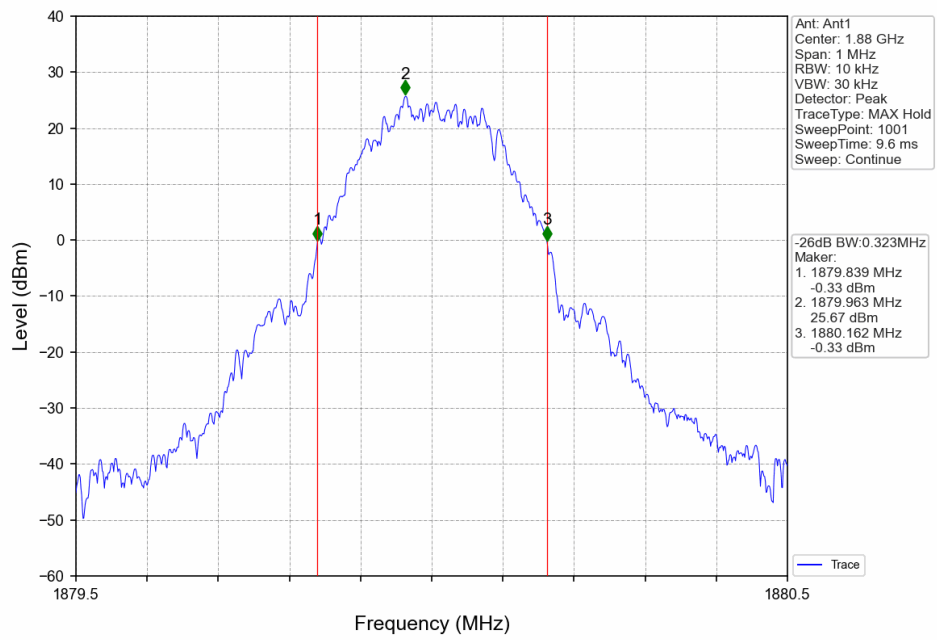
PCS1900 GSM_HCH_1909.8MHz_GSM_NTNV



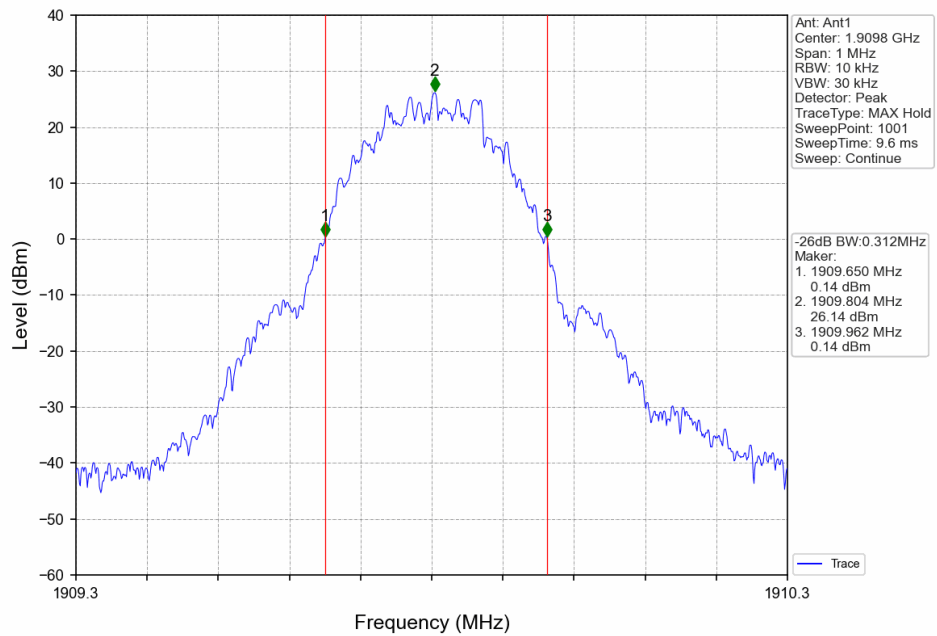
PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



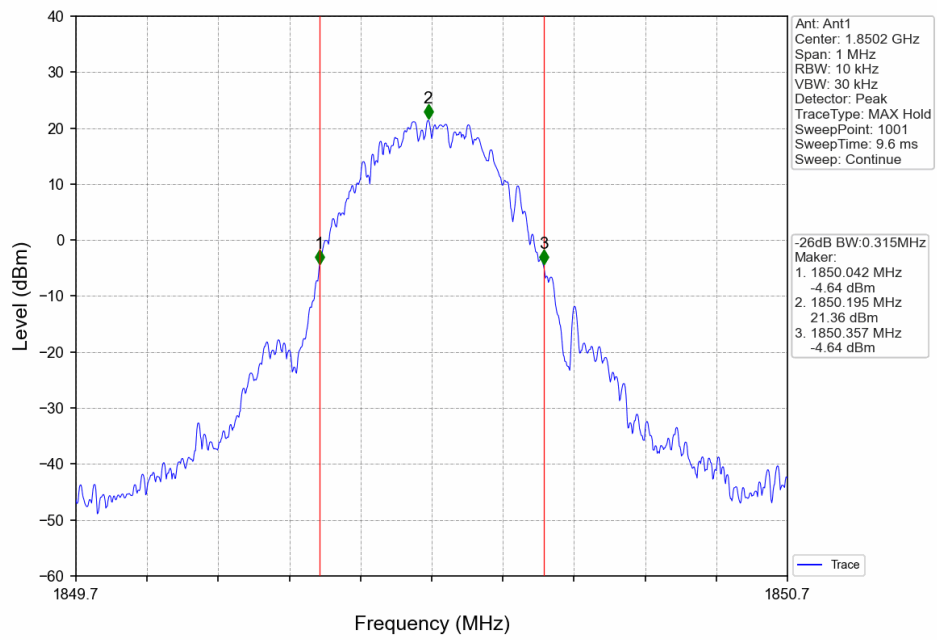
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



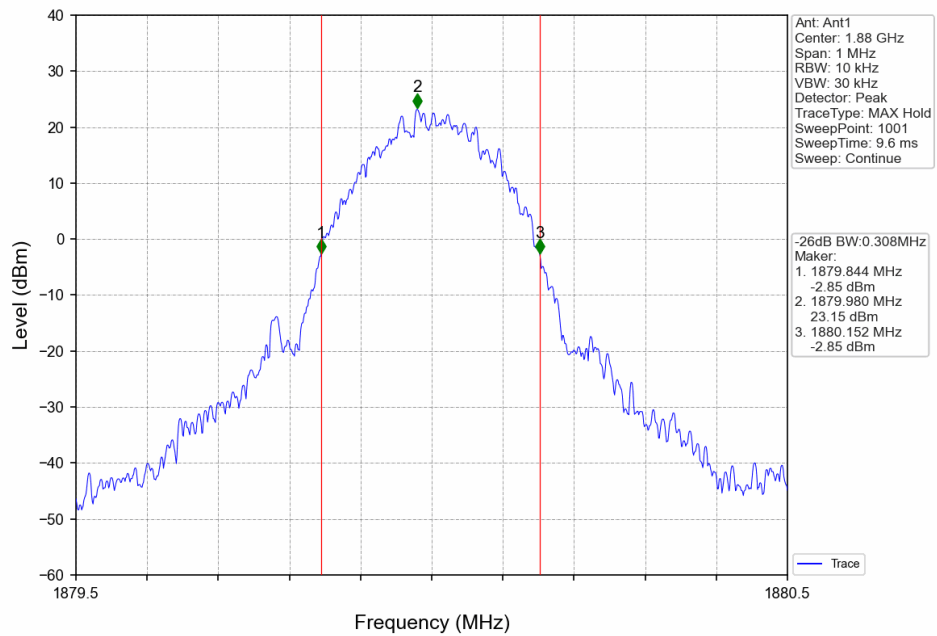
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



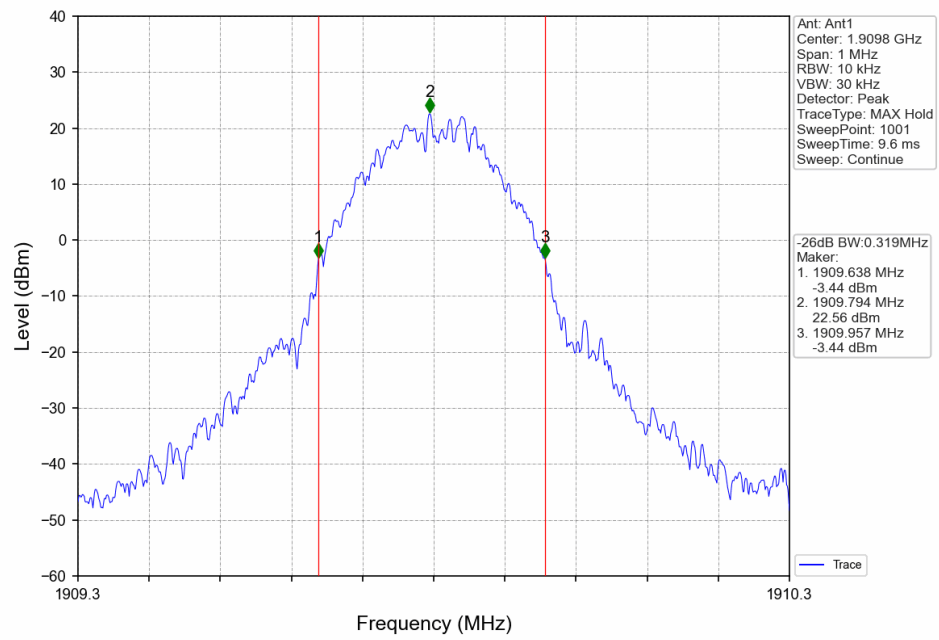
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot_NTNV



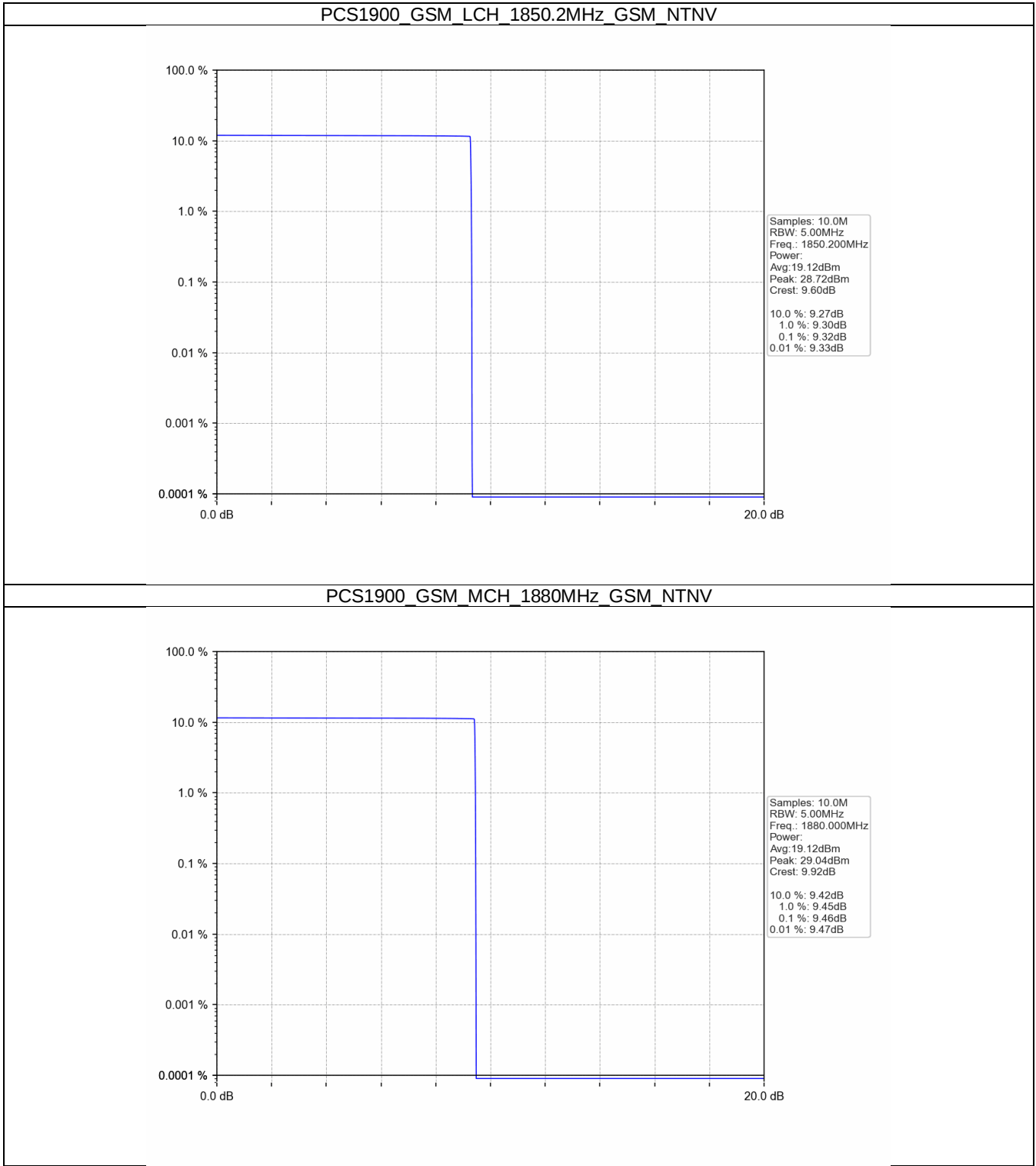
4. Peak-Average Ratio

4.1 PCS1900

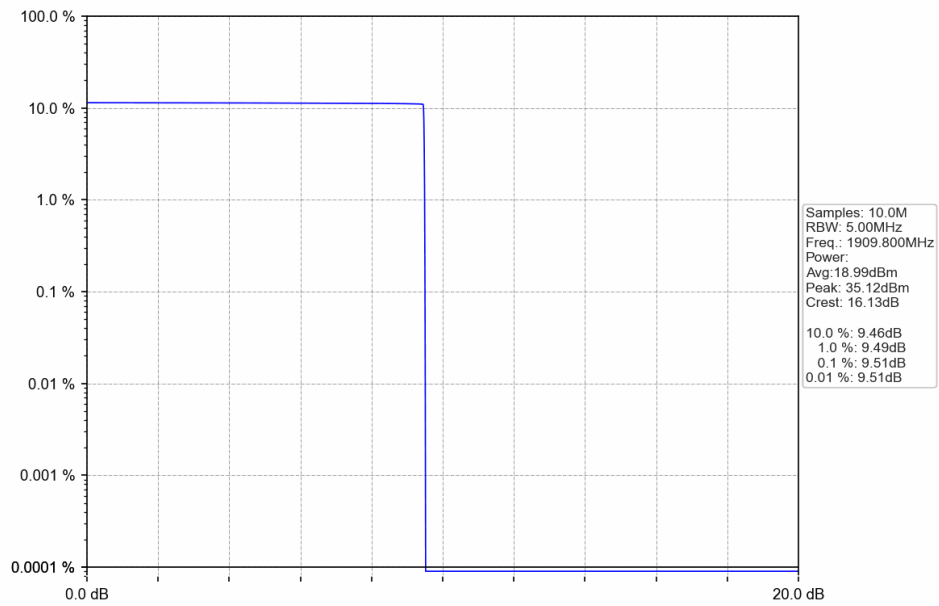
4.1.1 Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	9.32	<=13	Pass
			1880	9.46	<=13	Pass
			1909.8	9.51	<=13	Pass
	GPRS	4 TX Slots	1850.2	3.41	<=13	Pass
			1880	3.59	<=13	Pass
			1909.8	3.63	<=13	Pass
	EGPRS	4 TX Slots	1850.2	6.99	<=13	Pass
			1880	6.97	<=13	Pass
			1909.8	6.91	<=13	Pass

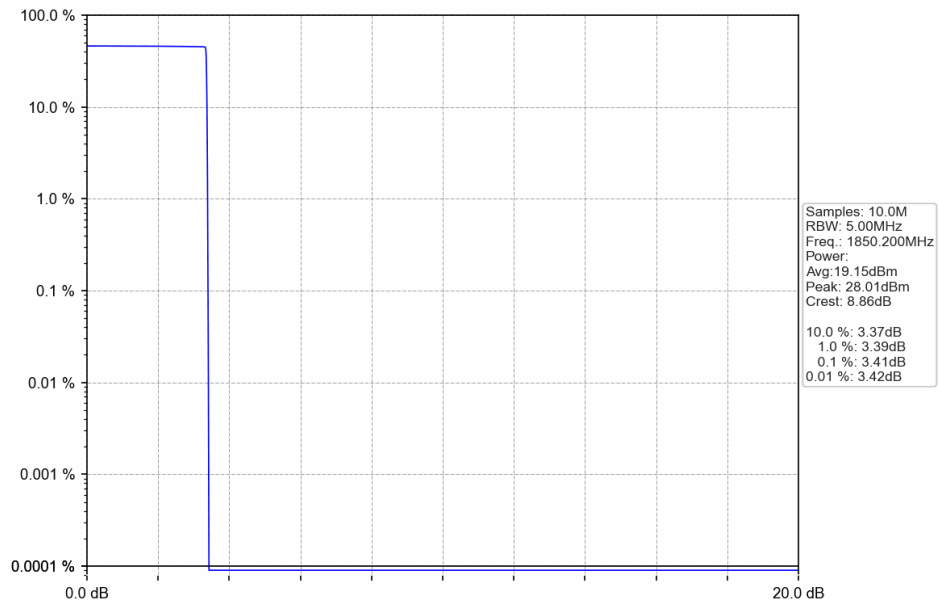
4.1.2 Test Graph



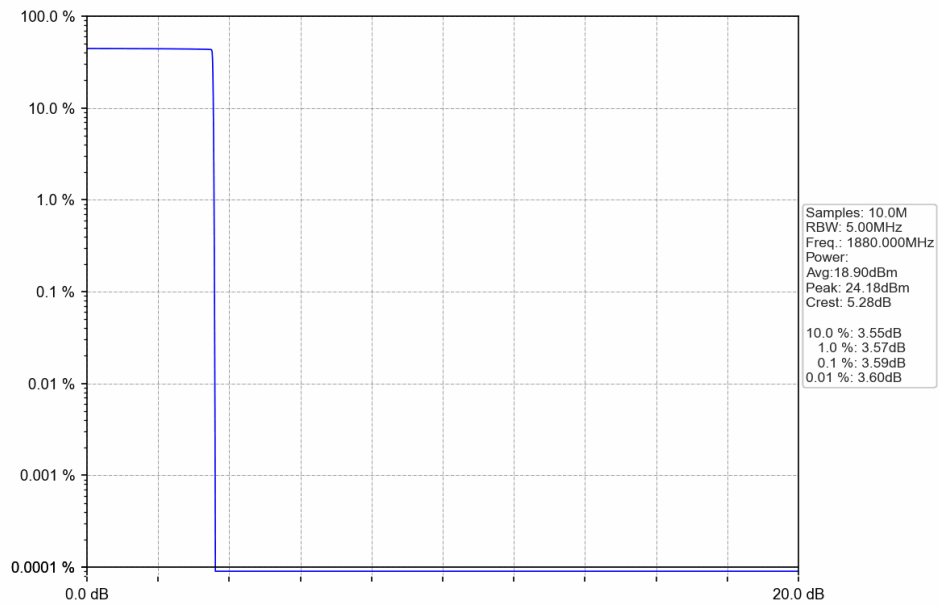
PCS1900 GSM_HCH_1909.8MHz_GSM_NTNV



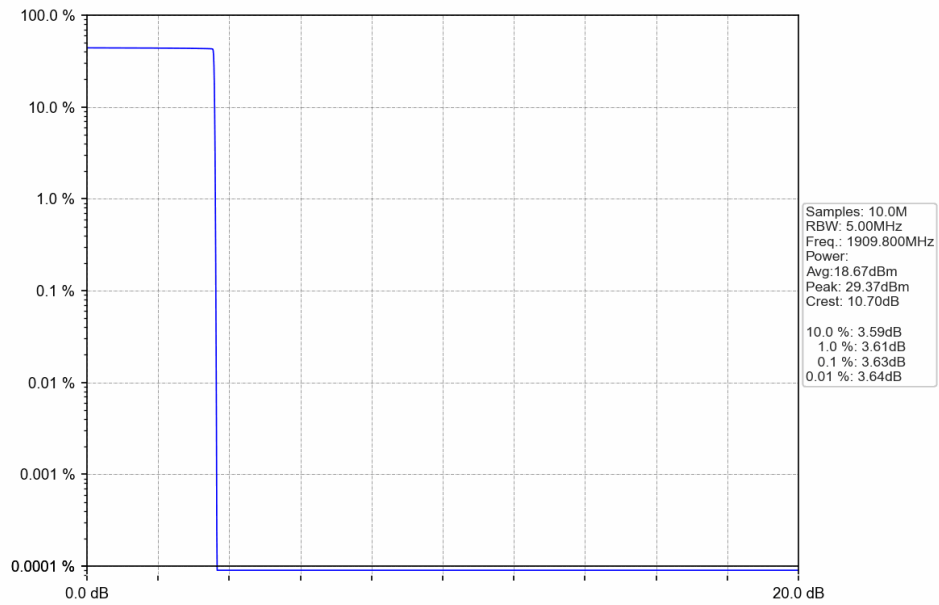
PCS1900_GPRS_LCH_1850.2MHz_4 TX Slots_NTNV



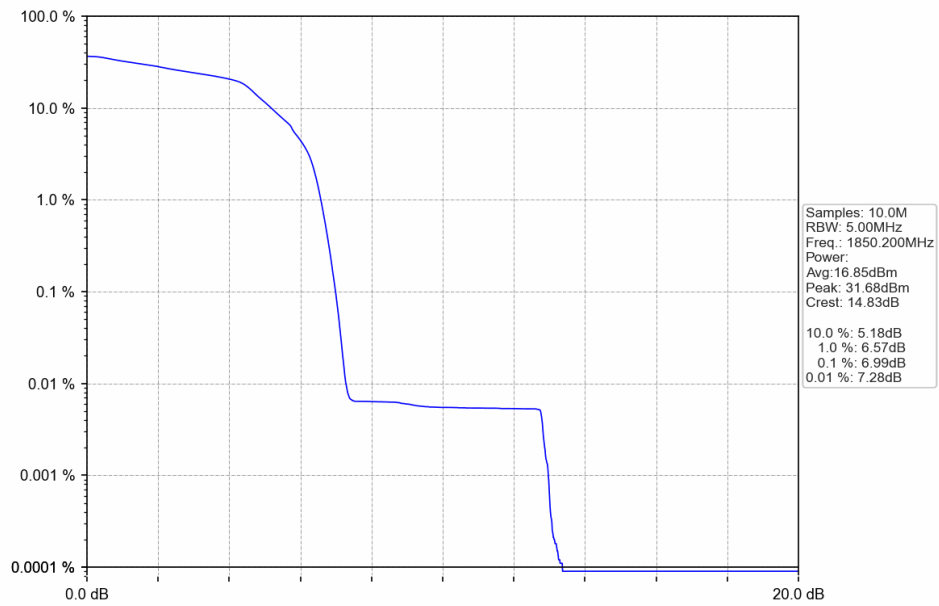
PCS1900_GPRS_MCH_1880MHz_4 TX Slots_NTNV



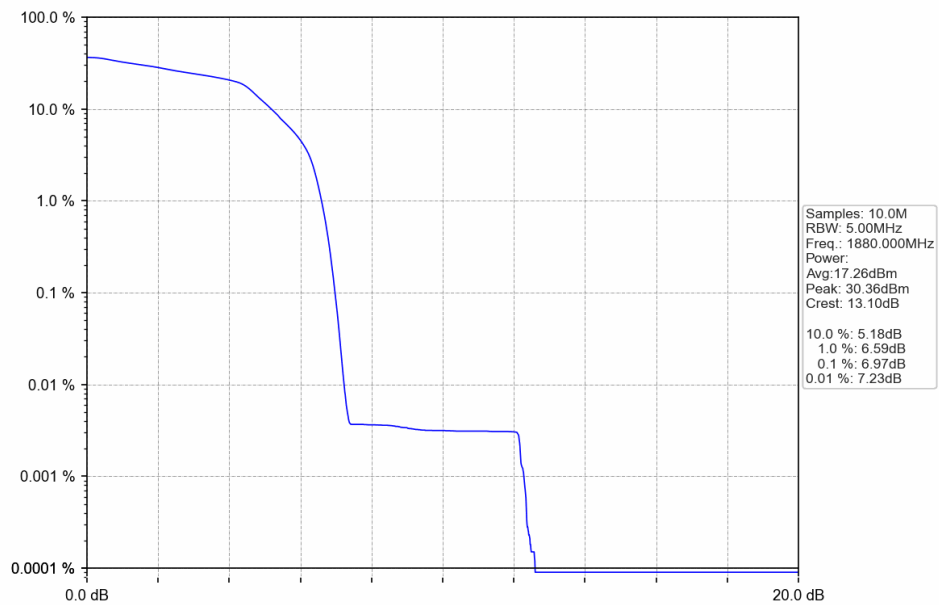
PCS1900_GPRS_HCH_1909.8MHz_4 TX Slots_NTNV



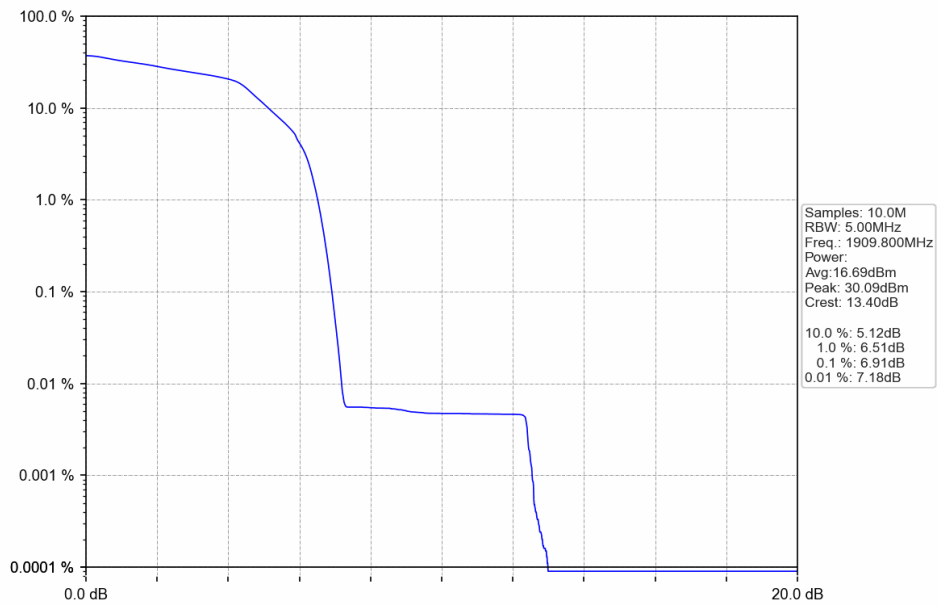
PCS1900_EGPRS_LCH_1850.2MHz_4 TX Slots_NTNV



PCS1900_EGPRS_MCH_1880MHz_4 TX Slots_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_4 TX Slots_NTNV



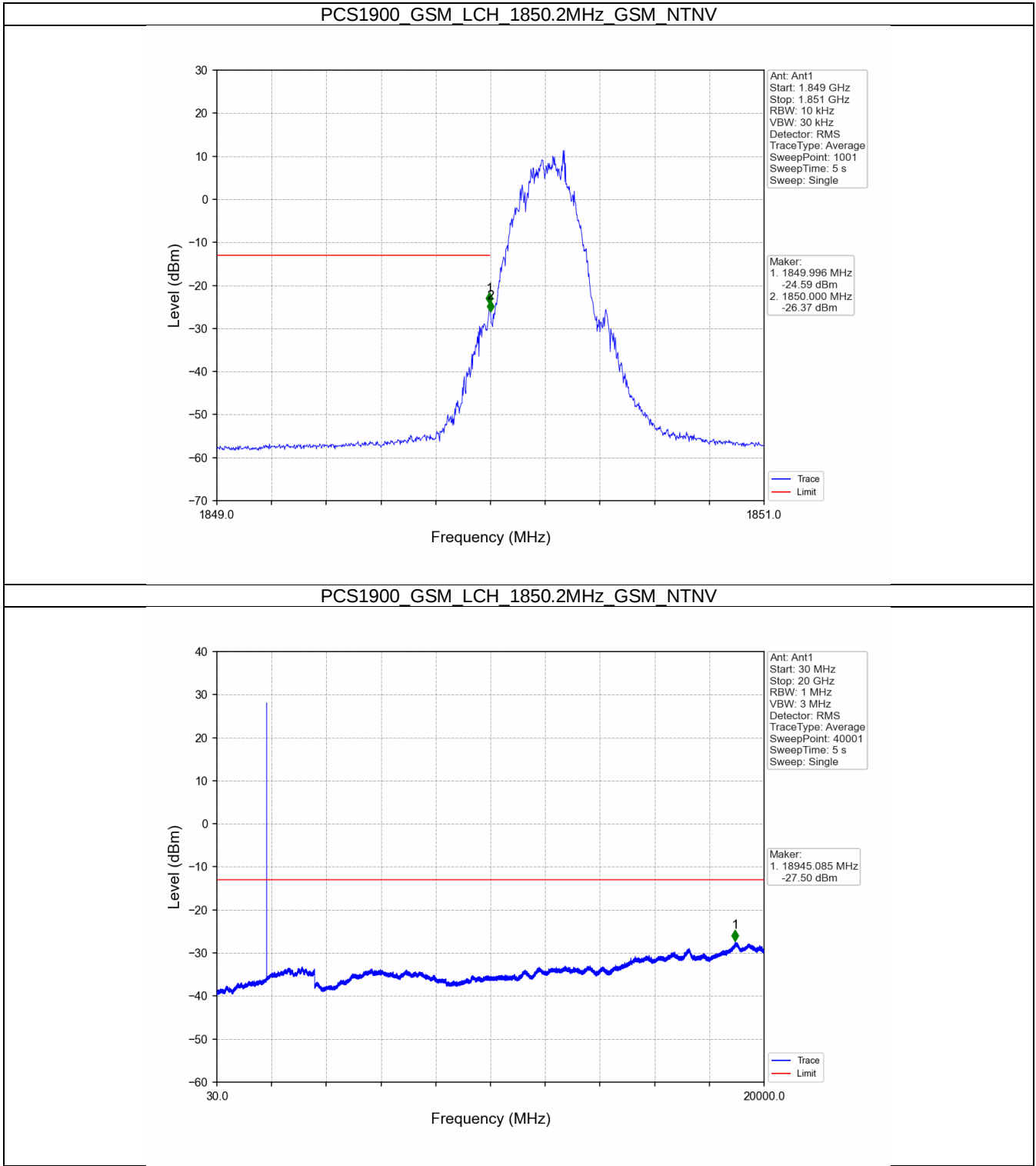
5. Spurious Emission

5.1 PCS1900

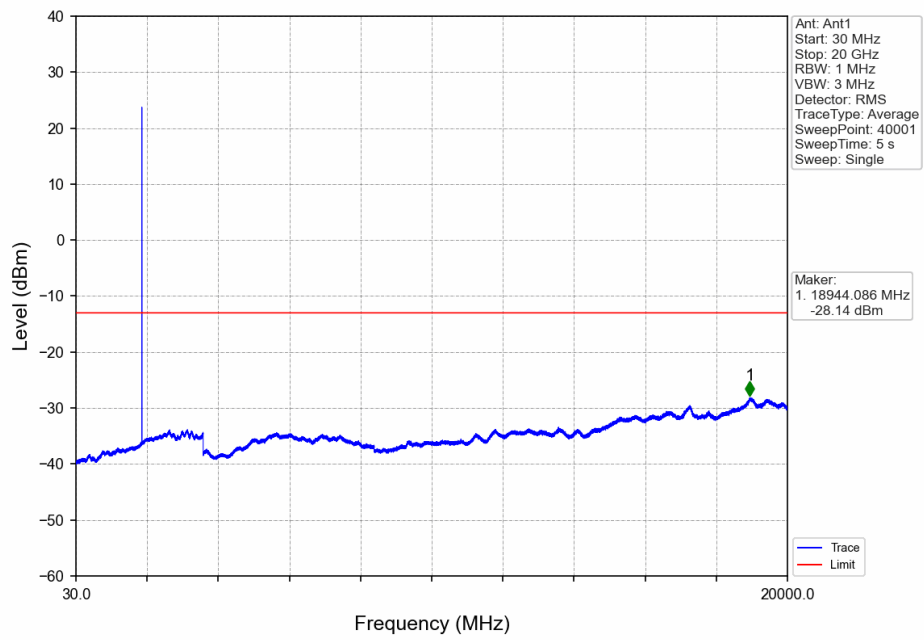
5.1.1 Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	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

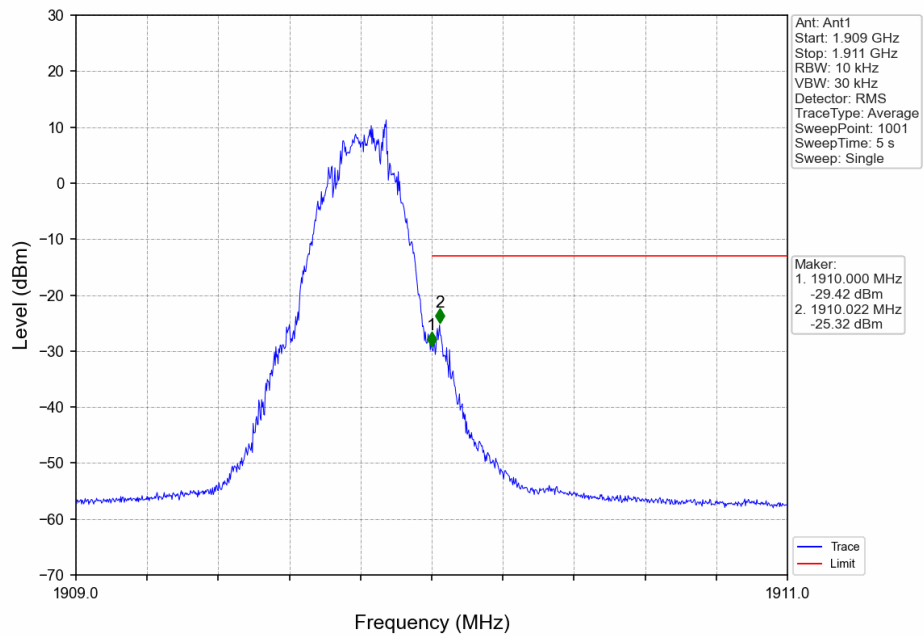
5.1.2 Test Graph



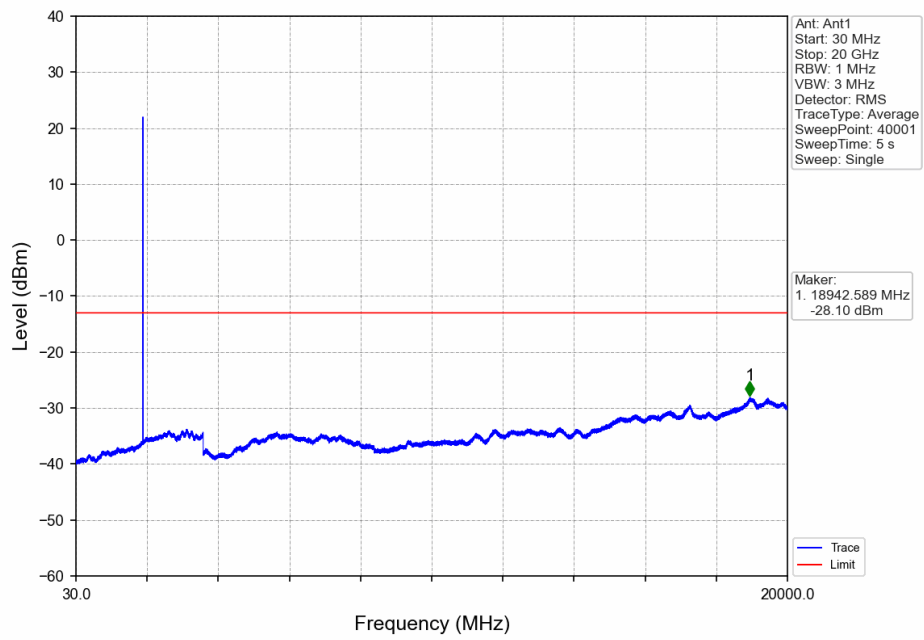
PCS1900_GSM_MCH_1880MHz_GSM_NTNV



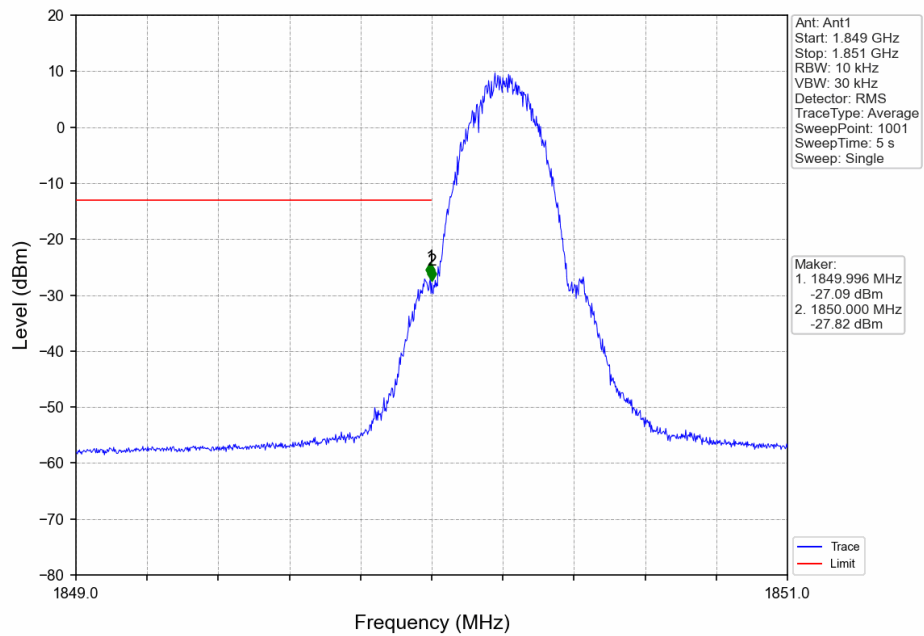
PCS1900_GSM_HCH_1909.8MHz_GSM_NTNV



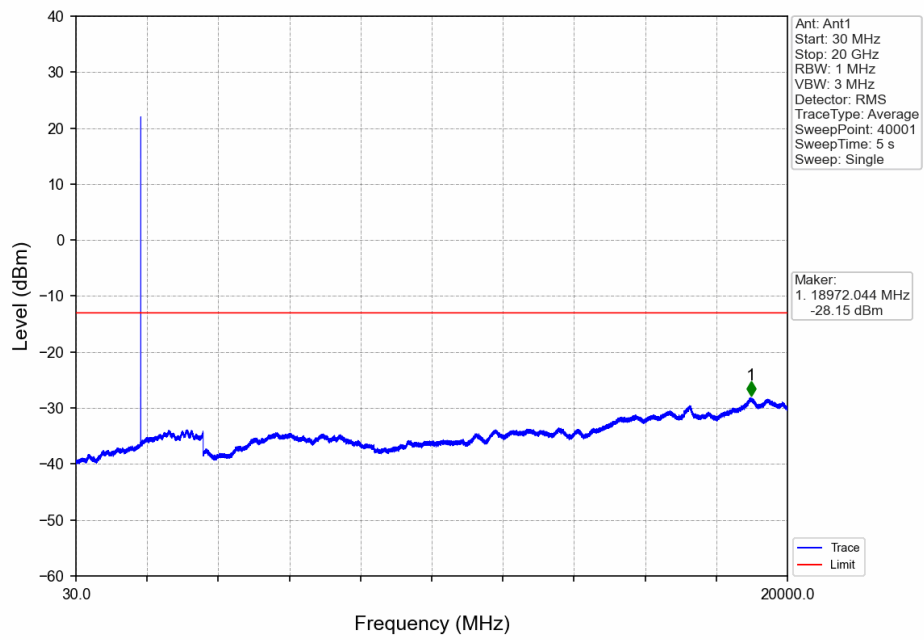
PCS1900 GSM_HCH_1909.8MHz_GSM_NTNV



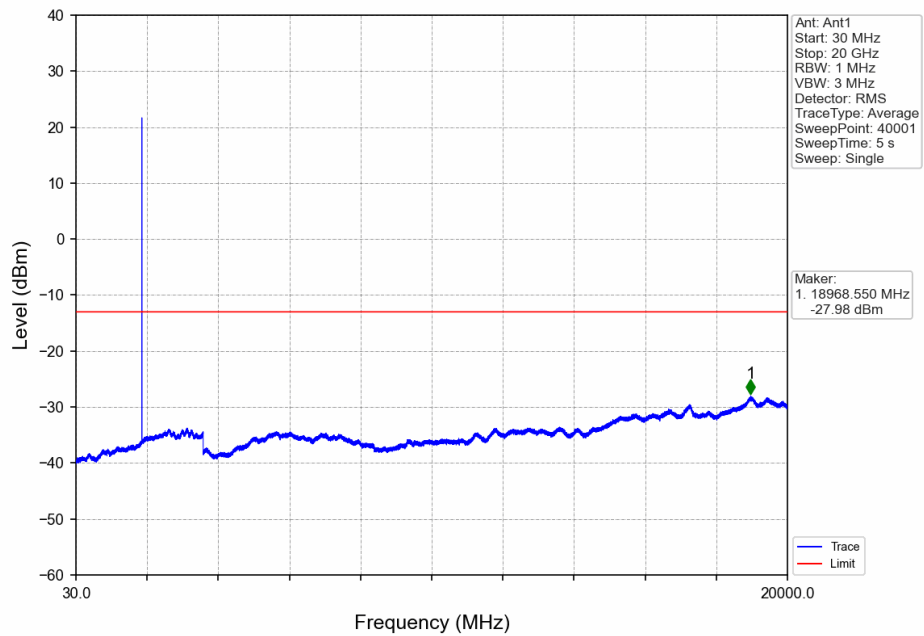
PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



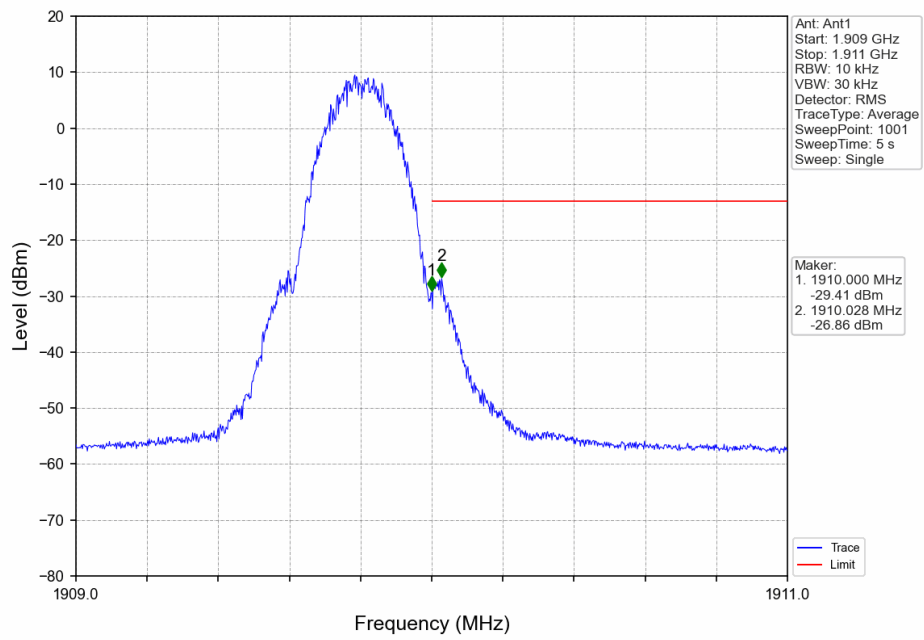
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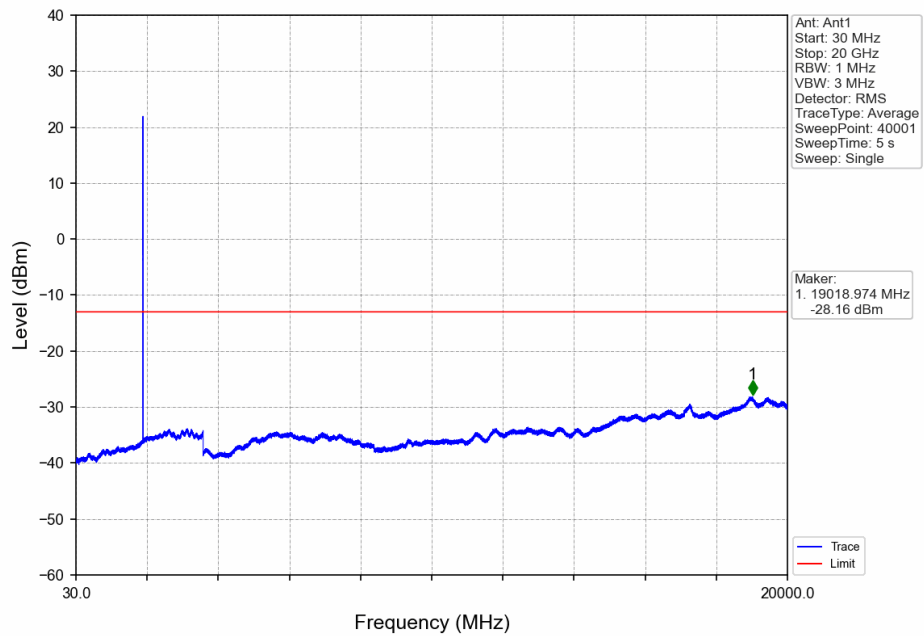
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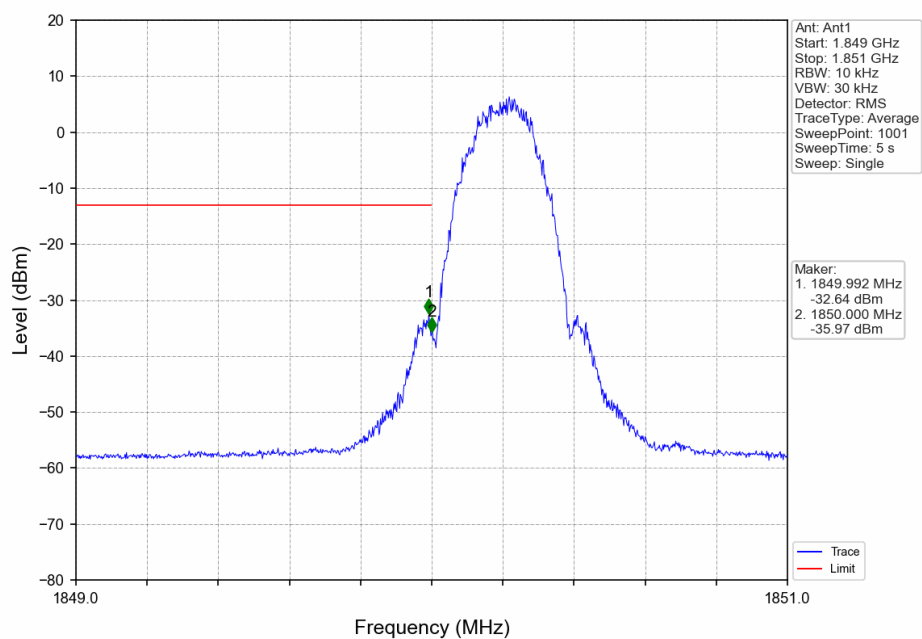
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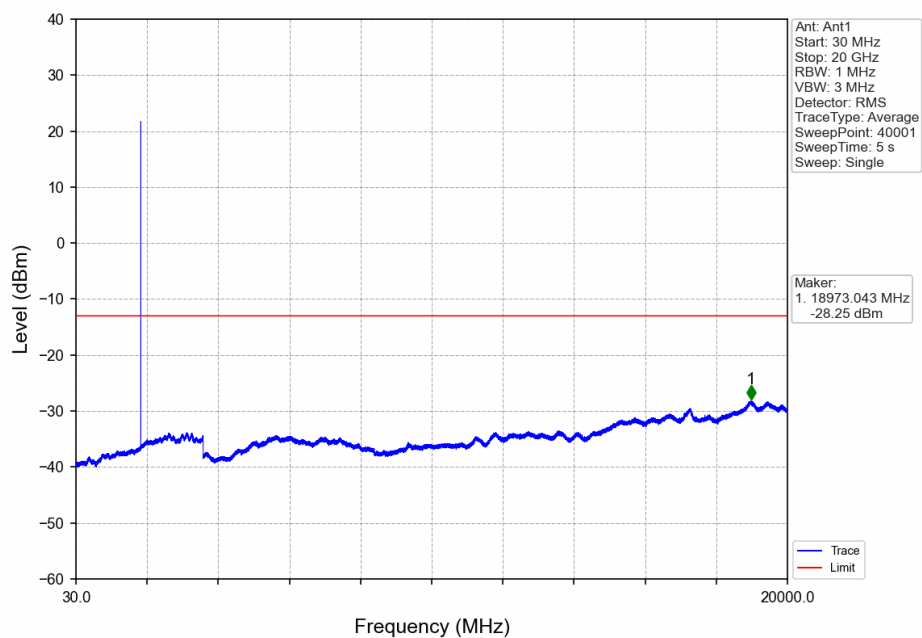
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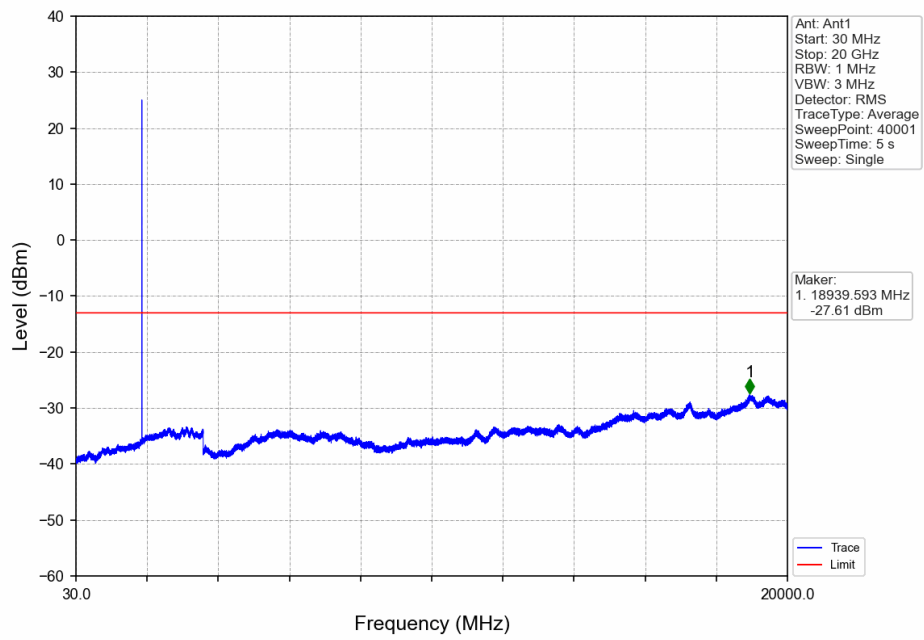
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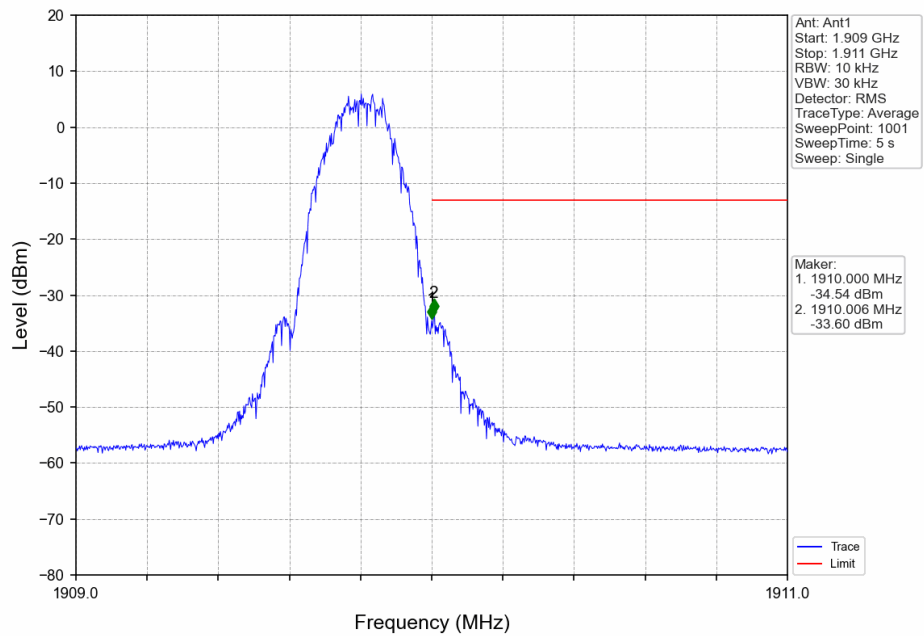
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PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot_NTNV

