

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 PCS1900_EIRP

Band: PCS1900									
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict	
	Network	Subset				Result	Limit		
NTNV	GSM	GSM	1850.2	28.39	-1.60	26.79	<=33.01	Pass	
			1880	29.10	-1.60	27.50	<=33.01	Pass	
			1909.8	29.28	-1.60	27.68	<=33.01	Pass	
	GPRS	1 TX Slot	1850.2	28.37	-1.60	26.77	<=33.01	Pass	
		2 TX Slots	1850.2	27.71	-1.60	26.11	<=33.01	Pass	
		3 TX Slots	1850.2	26.02	-1.60	24.42	<=33.01	Pass	
		4 TX Slots	1850.2	24.78	-1.60	23.18	<=33.01	Pass	
		1 TX Slot	1880	28.98	-1.60	27.38	<=33.01	Pass	
		2 TX Slots	1880	28.41	-1.60	26.81	<=33.01	Pass	
		3 TX Slots	1880	26.80	-1.60	25.20	<=33.01	Pass	
		4 TX Slots	1880	25.57	-1.60	23.97	<=33.01	Pass	
		1 TX Slot	1909.8	29.16	-1.60	27.56	<=33.01	Pass	
		2 TX Slots	1909.8	28.63	-1.60	27.03	<=33.01	Pass	
		3 TX Slots	1909.8	27.09	-1.60	25.49	<=33.01	Pass	
		4 TX Slots	1909.8	25.87	-1.60	24.27	<=33.01	Pass	
		EGPRS	1 TX Slot	1850.2	24.90	-1.60	23.30	<=33.01	Pass
			2 TX Slots	1850.2	23.57	-1.60	21.97	<=33.01	Pass
			3 TX Slots	1850.2	21.79	-1.60	20.19	<=33.01	Pass
			4 TX Slots	1850.2	21.79	-1.60	20.19	<=33.01	Pass
			1 TX Slot	1880	25.18	-1.60	23.58	<=33.01	Pass
			2 TX Slots	1880	24.34	-1.60	22.74	<=33.01	Pass
			3 TX Slots	1880	22.32	-1.60	20.72	<=33.01	Pass
	4 TX Slots		1880	22.57	-1.60	20.97	<=33.01	Pass	
	1 TX Slot		1909.8	25.47	-1.60	23.87	<=33.01	Pass	
	2 TX Slots		1909.8	24.61	-1.60	23.01	<=33.01	Pass	
	3 TX Slots		1909.8	22.64	-1.60	21.04	<=33.01	Pass	
	4 TX Slots		1909.8	22.89	-1.60	21.29	<=33.01	Pass	
Note1: EIRP=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	3.60	-34.831	-0.0188	-2.5 to 2.5	Pass
			3.91	-7.641	-0.0041	-2.5 to 2.5	Pass
			4.50	-9.285	-0.0050	-2.5 to 2.5	Pass
		-30	3.91	-8.991	-0.0049	-2.5 to 2.5	Pass
		-20	3.91	-6.194	-0.0033	-2.5 to 2.5	Pass
		-10	3.91	-8.384	-0.0045	-2.5 to 2.5	Pass
		0	3.91	-5.475	-0.0030	-2.5 to 2.5	Pass
		10	3.91	-14.579	-0.0079	-2.5 to 2.5	Pass

		30	3.91	-14.772	-0.0080	-2.5 to 2.5	Pass
		40	3.91	-15.960	-0.0086	-2.5 to 2.5	Pass
		50	3.91	-16.944	-0.0092	-2.5 to 2.5	Pass
	1880	20	3.60	-3.801	-0.0020	-2.5 to 2.5	Pass
			3.91	-4.722	-0.0025	-2.5 to 2.5	Pass
			4.50	-4.884	-0.0026	-2.5 to 2.5	Pass
		-30	3.91	-11.089	-0.0059	-2.5 to 2.5	Pass
		-20	3.91	-3.835	-0.0020	-2.5 to 2.5	Pass
		-10	3.91	-5.983	-0.0032	-2.5 to 2.5	Pass
		0	3.91	-4.905	-0.0026	-2.5 to 2.5	Pass
		10	3.91	0.099	0.0001	-2.5 to 2.5	Pass
		30	3.91	13.467	0.0072	-2.5 to 2.5	Pass
		40	3.91	12.229	0.0065	-2.5 to 2.5	Pass
		50	3.91	8.328	0.0044	-2.5 to 2.5	Pass
	1909.8	20	3.60	-3.678	-0.0019	-2.5 to 2.5	Pass
			3.91	-3.292	-0.0017	-2.5 to 2.5	Pass
			4.50	-3.750	-0.0020	-2.5 to 2.5	Pass
		-30	3.91	-4.301	-0.0023	-2.5 to 2.5	Pass
		-20	3.91	-6.458	-0.0034	-2.5 to 2.5	Pass
		-10	3.91	-1.236	-0.0006	-2.5 to 2.5	Pass
		0	3.91	-9.460	-0.0050	-2.5 to 2.5	Pass
		10	3.91	-7.673	-0.0040	-2.5 to 2.5	Pass
		30	3.91	-1.067	-0.0006	-2.5 to 2.5	Pass
		40	3.91	3.222	0.0017	-2.5 to 2.5	Pass
		50	3.91	2.931	0.0015	-2.5 to 2.5	Pass
GPRS	1850.2	20	3.60	-11.624	-0.0063	-2.5 to 2.5	Pass
			3.91	-11.522	-0.0062	-2.5 to 2.5	Pass
			4.50	-10.329	-0.0056	-2.5 to 2.5	Pass
		-30	3.91	-2.260	-0.0012	-2.5 to 2.5	Pass
		-20	3.91	-4.321	-0.0023	-2.5 to 2.5	Pass
		-10	3.91	-5.094	-0.0028	-2.5 to 2.5	Pass
		0	3.91	-9.233	-0.0050	-2.5 to 2.5	Pass
		10	3.91	-10.460	-0.0057	-2.5 to 2.5	Pass
		30	3.91	5.688	0.0031	-2.5 to 2.5	Pass
		40	3.91	9.015	0.0049	-2.5 to 2.5	Pass
		50	3.91	0.674	0.0004	-2.5 to 2.5	Pass
	1880	20	3.60	-6.786	-0.0036	-2.5 to 2.5	Pass
			3.91	-3.486	-0.0019	-2.5 to 2.5	Pass
			4.50	-3.832	-0.0020	-2.5 to 2.5	Pass
		-30	3.91	-7.488	-0.0040	-2.5 to 2.5	Pass
		-20	3.91	-6.052	-0.0032	-2.5 to 2.5	Pass
		-10	3.91	-7.256	-0.0039	-2.5 to 2.5	Pass
		0	3.91	-3.585	-0.0019	-2.5 to 2.5	Pass
		10	3.91	-4.484	-0.0024	-2.5 to 2.5	Pass
		30	3.91	-2.062	-0.0011	-2.5 to 2.5	Pass
		40	3.91	-3.408	-0.0018	-2.5 to 2.5	Pass
		50	3.91	-6.833	-0.0036	-2.5 to 2.5	Pass
	1909.8	20	3.60	-5.847	-0.0031	-2.5 to 2.5	Pass
			3.91	-9.556	-0.0050	-2.5 to 2.5	Pass
			4.50	-7.171	-0.0038	-2.5 to 2.5	Pass
		-30	3.91	-4.916	-0.0026	-2.5 to 2.5	Pass
		-20	3.91	-13.630	-0.0071	-2.5 to 2.5	Pass
		-10	3.91	-7.406	-0.0039	-2.5 to 2.5	Pass
		0	3.91	-6.987	-0.0037	-2.5 to 2.5	Pass
		10	3.91	-4.687	-0.0025	-2.5 to 2.5	Pass
		30	3.91	-3.218	-0.0017	-2.5 to 2.5	Pass
		40	3.91	-2.680	-0.0014	-2.5 to 2.5	Pass
		50	3.91	-4.279	-0.0022	-2.5 to 2.5	Pass
EGPRS	1850.2	20	3.60	-10.601	-0.0057	-2.5 to 2.5	Pass

			3.91	-7.253	-0.0039	-2.5 to 2.5	Pass
			4.50	-8.267	-0.0045	-2.5 to 2.5	Pass
		-30	3.91	-11.490	-0.0062	-2.5 to 2.5	Pass
		-20	3.91	-14.485	-0.0078	-2.5 to 2.5	Pass
		-10	3.91	-7.896	-0.0043	-2.5 to 2.5	Pass
		0	3.91	-6.237	-0.0034	-2.5 to 2.5	Pass
		10	3.91	-6.438	-0.0035	-2.5 to 2.5	Pass
		30	3.91	-10.775	-0.0058	-2.5 to 2.5	Pass
		40	3.91	-19.917	-0.0108	-2.5 to 2.5	Pass
		50	3.91	-20.340	-0.0110	-2.5 to 2.5	Pass
	1880	20	3.60	-8.830	-0.0047	-2.5 to 2.5	Pass
			3.91	-7.940	-0.0042	-2.5 to 2.5	Pass
			4.50	-12.614	-0.0067	-2.5 to 2.5	Pass
		-30	3.91	-12.984	-0.0069	-2.5 to 2.5	Pass
		-20	3.91	-9.989	-0.0053	-2.5 to 2.5	Pass
		-10	3.91	-9.481	-0.0050	-2.5 to 2.5	Pass
		0	3.91	-9.394	-0.0050	-2.5 to 2.5	Pass
		10	3.91	-7.182	-0.0038	-2.5 to 2.5	Pass
		30	3.91	0.555	0.0003	-2.5 to 2.5	Pass
		40	3.91	-3.188	-0.0017	-2.5 to 2.5	Pass
		50	3.91	-1.428	-0.0008	-2.5 to 2.5	Pass
	1909.8	20	3.60	-9.086	-0.0048	-2.5 to 2.5	Pass
			3.91	-10.225	-0.0054	-2.5 to 2.5	Pass
			4.50	-5.067	-0.0027	-2.5 to 2.5	Pass
		-30	3.91	-7.672	-0.0040	-2.5 to 2.5	Pass
		-20	3.91	-9.207	-0.0048	-2.5 to 2.5	Pass
		-10	3.91	-9.235	-0.0048	-2.5 to 2.5	Pass
		0	3.91	-5.886	-0.0031	-2.5 to 2.5	Pass
		10	3.91	-4.778	-0.0025	-2.5 to 2.5	Pass
		30	3.91	-7.856	-0.0041	-2.5 to 2.5	Pass
		40	3.91	-7.672	-0.0040	-2.5 to 2.5	Pass
		50	3.91	-11.974	-0.0063	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 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	0.247	/	Pass
			1909.8	0.245	/	Pass
	GPRS	1 TX Slot	1850.2	0.244	/	Pass
			1880	0.247	/	Pass
			1909.8	0.242	/	Pass
	EGPRS	1 TX Slot	1850.2	0.241	/	Pass
			1880	0.247	/	Pass
			1909.8	0.241	/	Pass

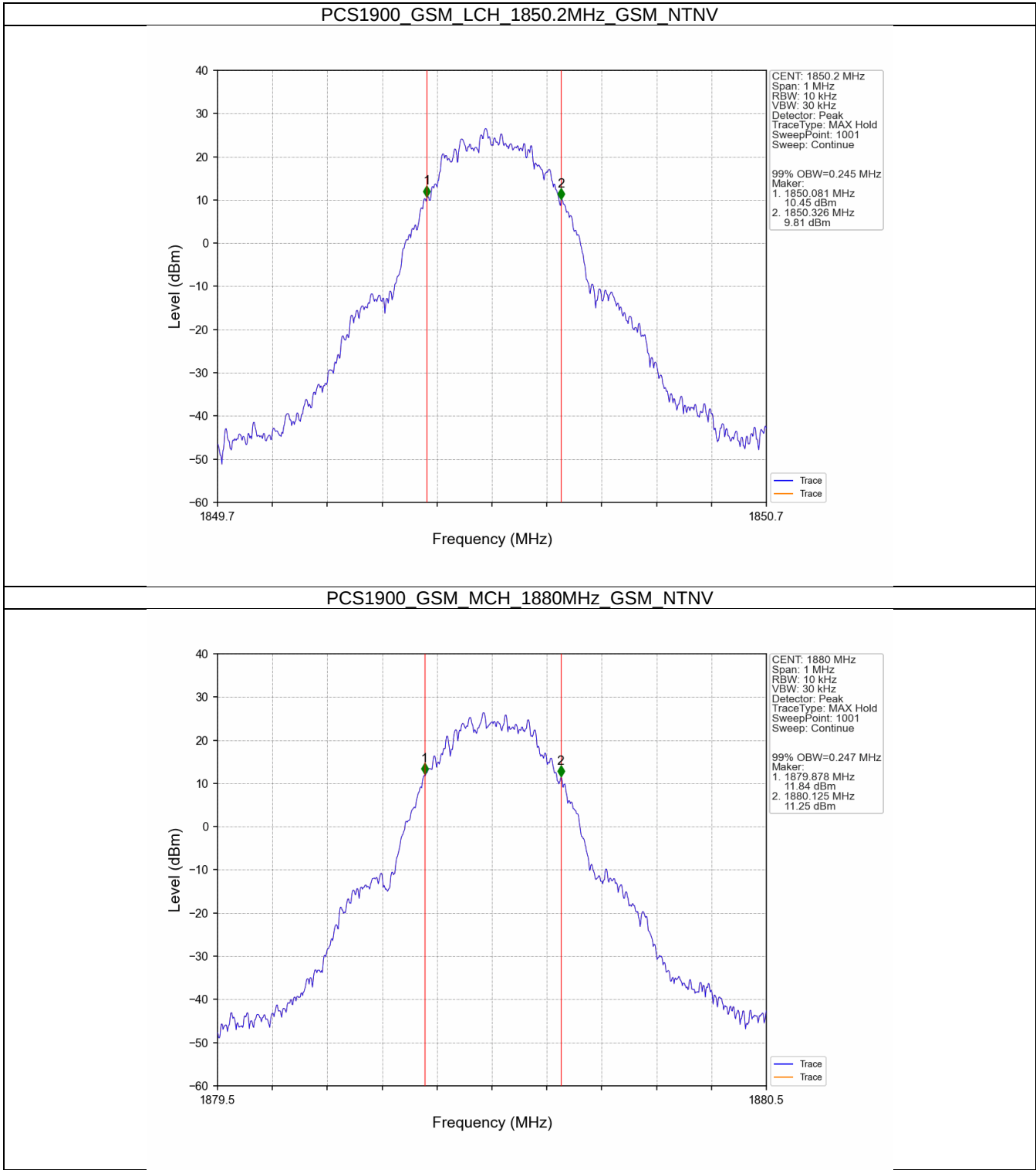
3.1.2 PCS1900_XDB

Band: PCS1900

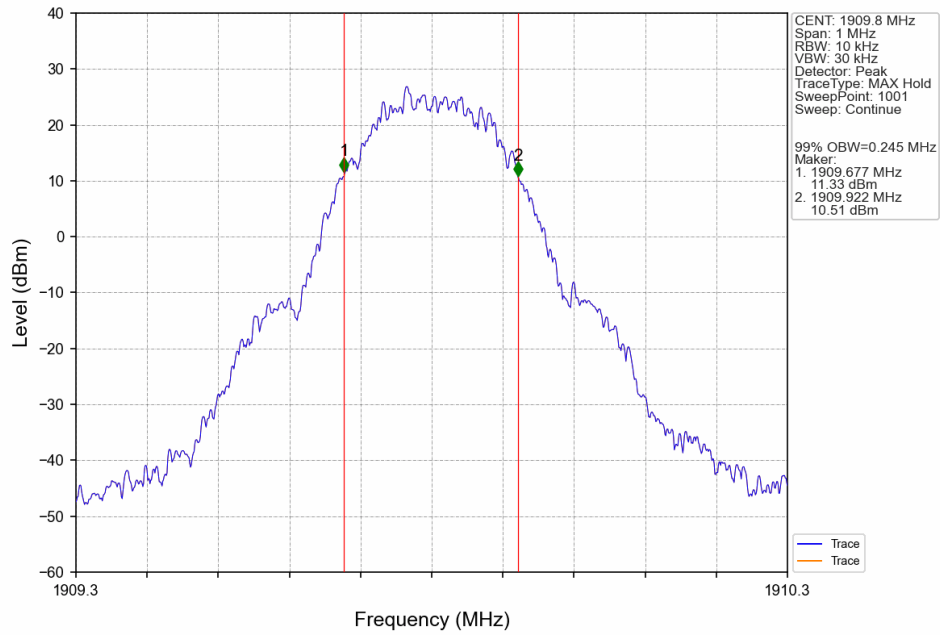
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	0.318	/	Pass
			1880	0.318	/	Pass
			1909.8	0.314	/	Pass
	GPRS	1 TX Slot	1850.2	0.313	/	Pass
			1880	0.320	/	Pass
			1909.8	0.314	/	Pass
	EGPRS	1 TX Slot	1850.2	0.313	/	Pass
			1880	0.315	/	Pass
			1909.8	0.307	/	Pass

3.2 Test Graph

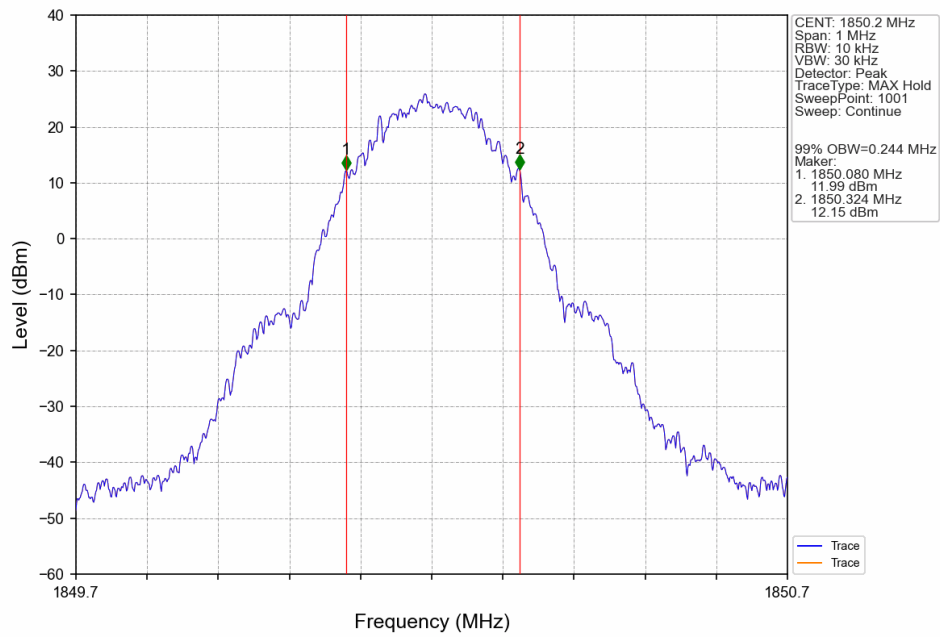
3.2.1 PCS1900_OBW



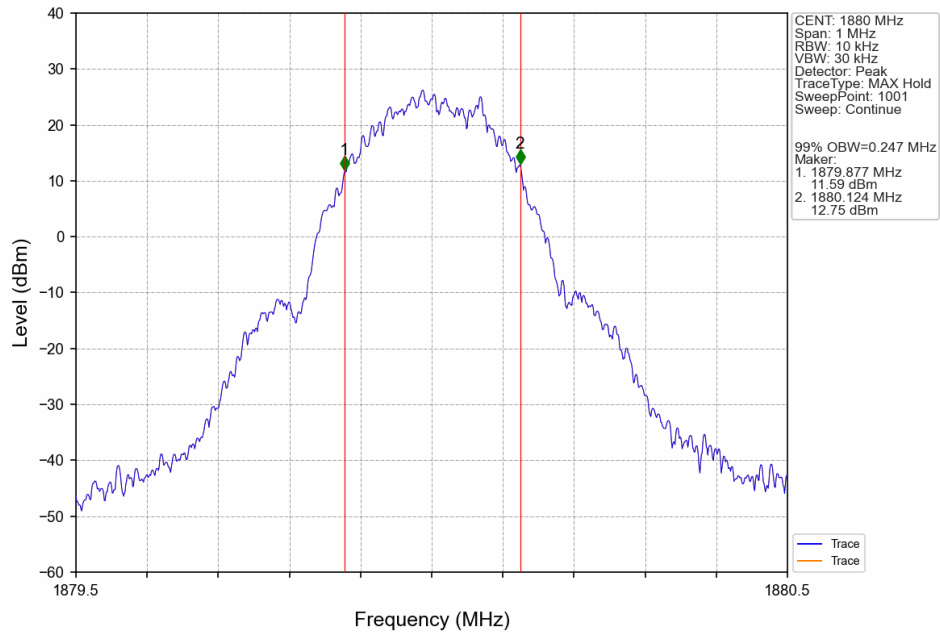
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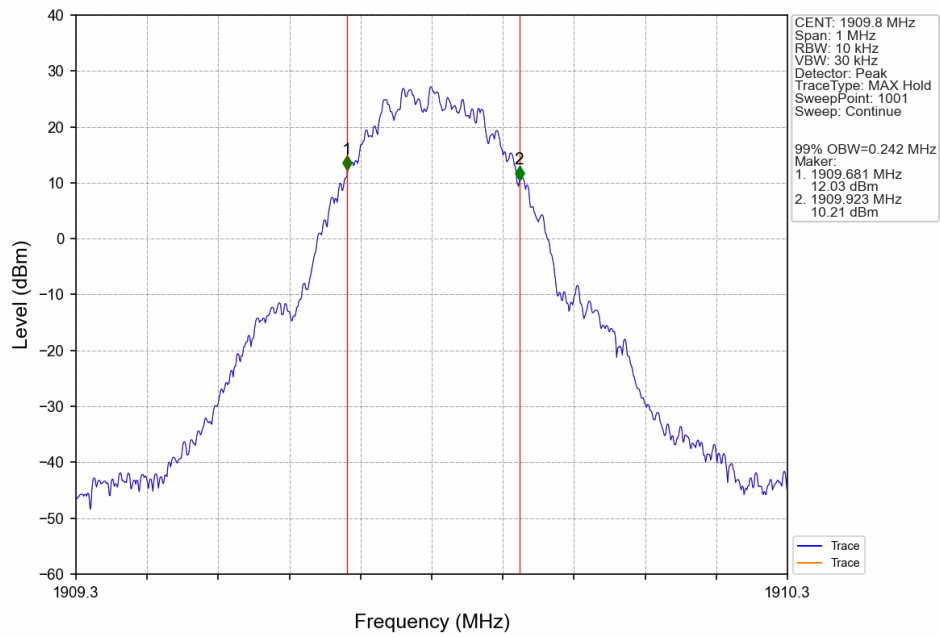
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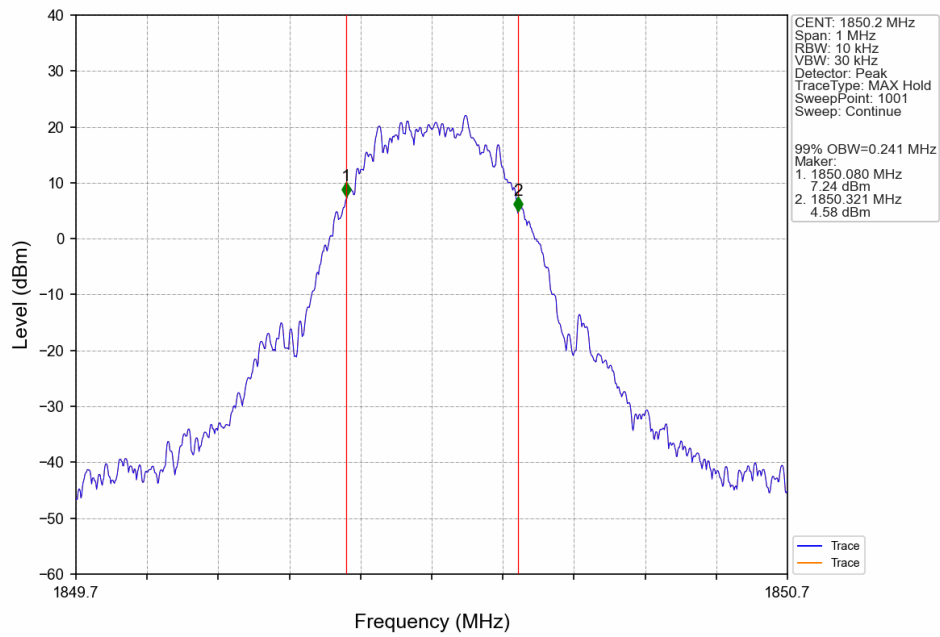
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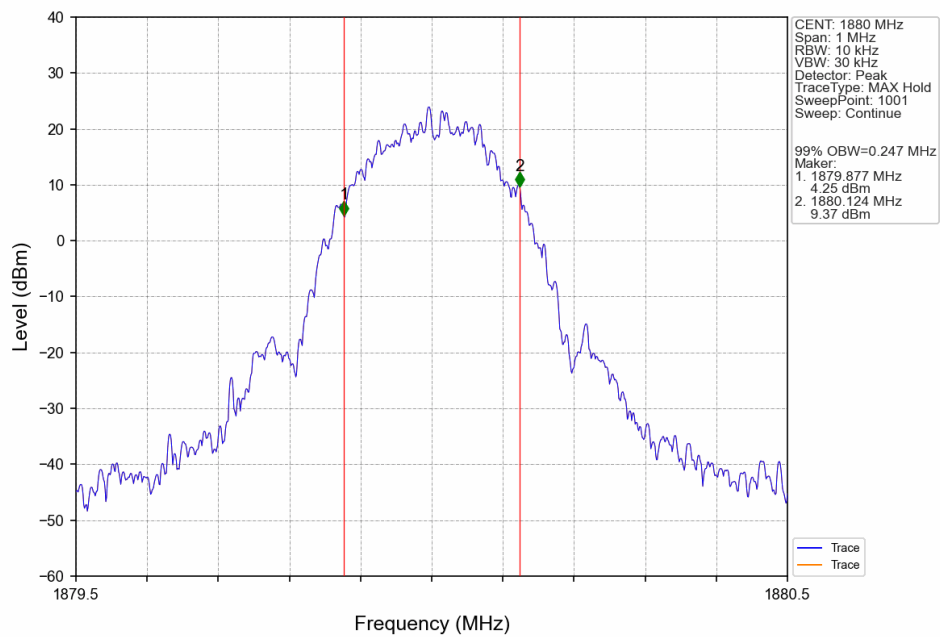
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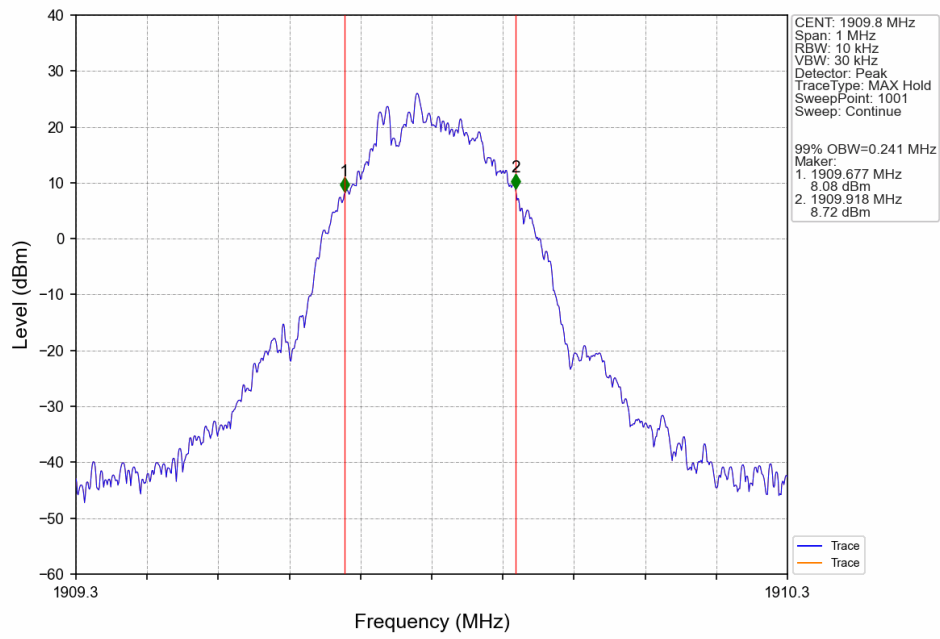
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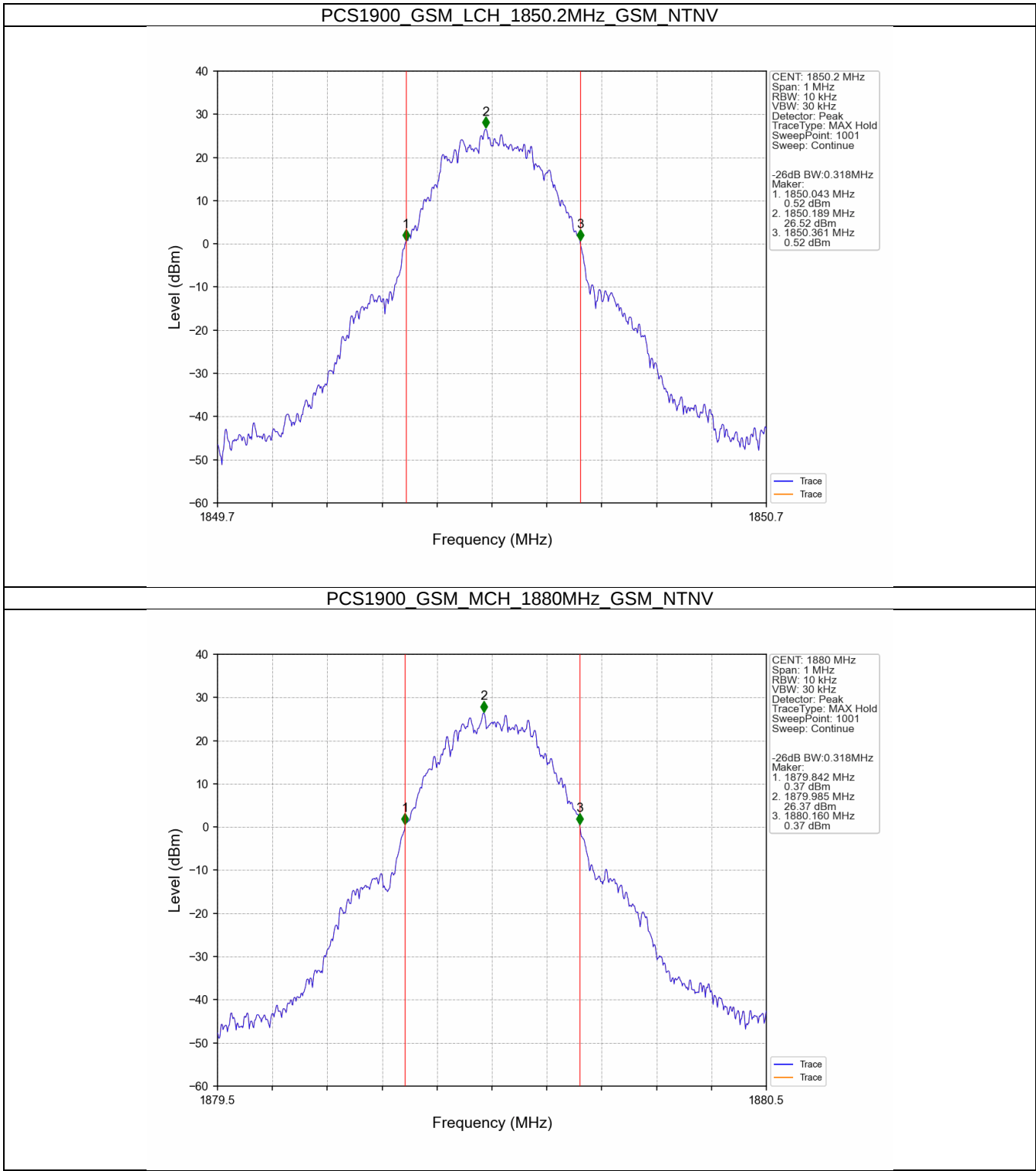
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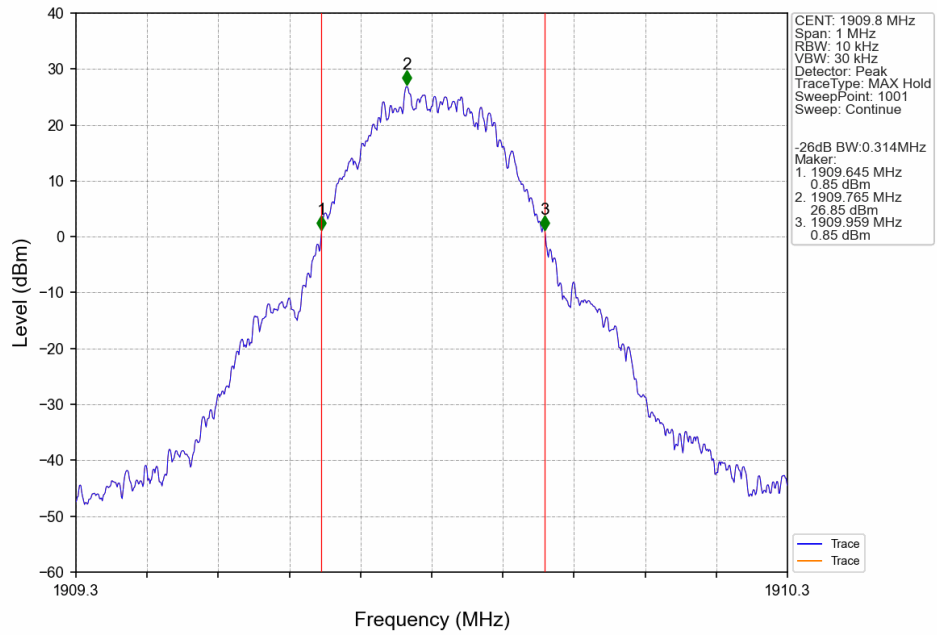
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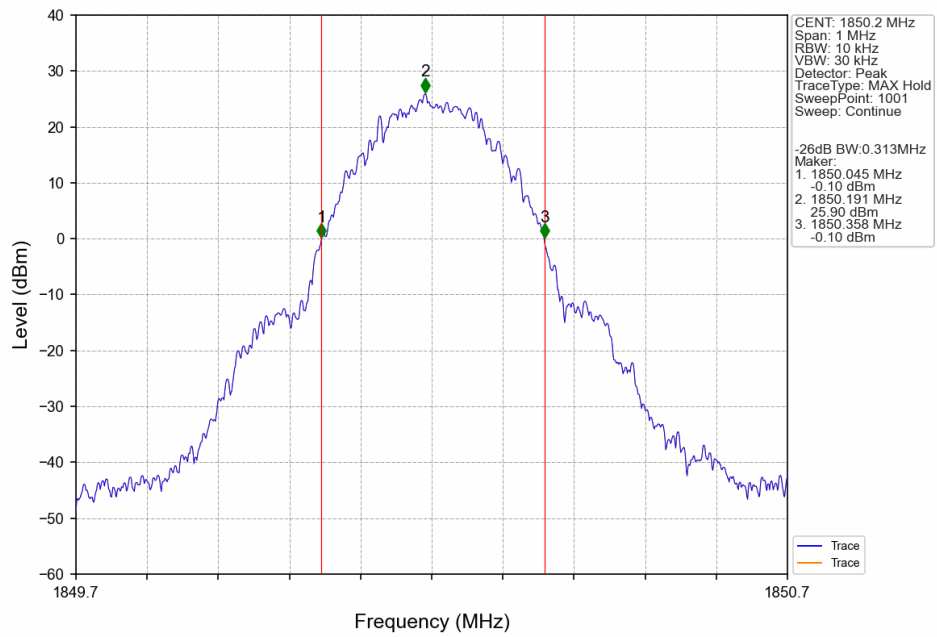
3.2.2 PCS1900_XDB



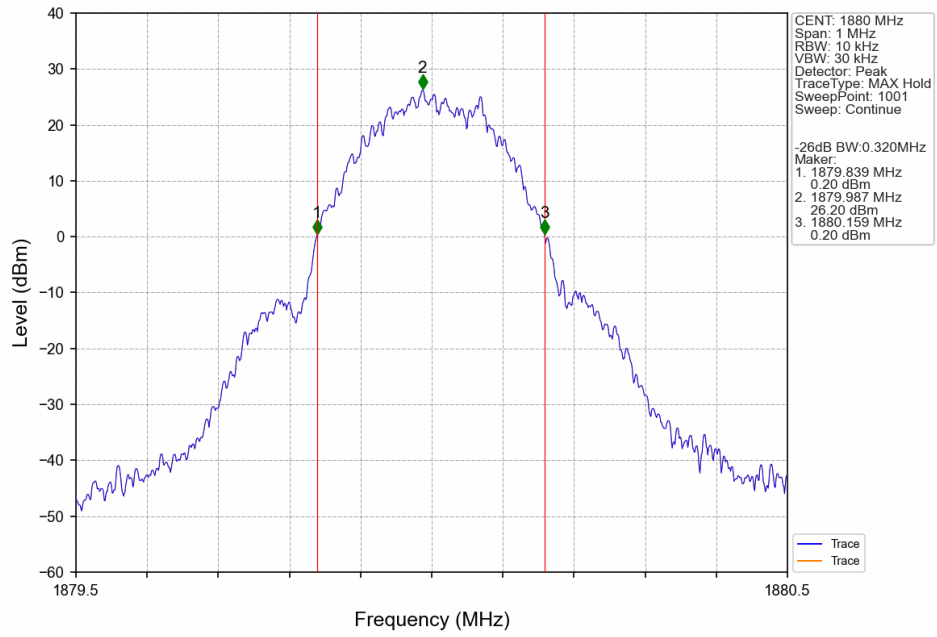
PCS1900 GSM HCH 1909.8MHz GSM NTNV



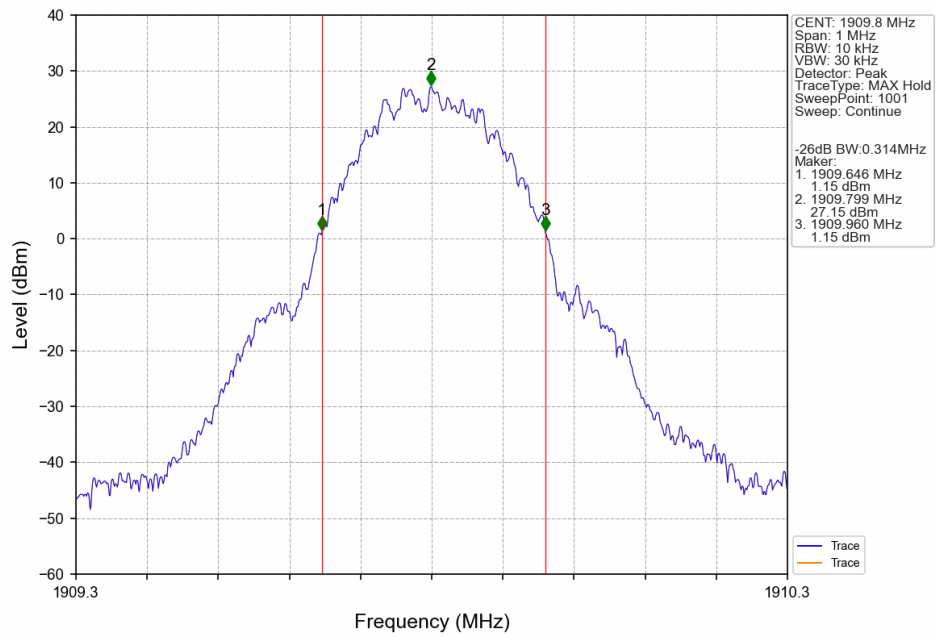
PCS1900 GPRS LCH 1850.2MHz 1 TX Slot NTNV



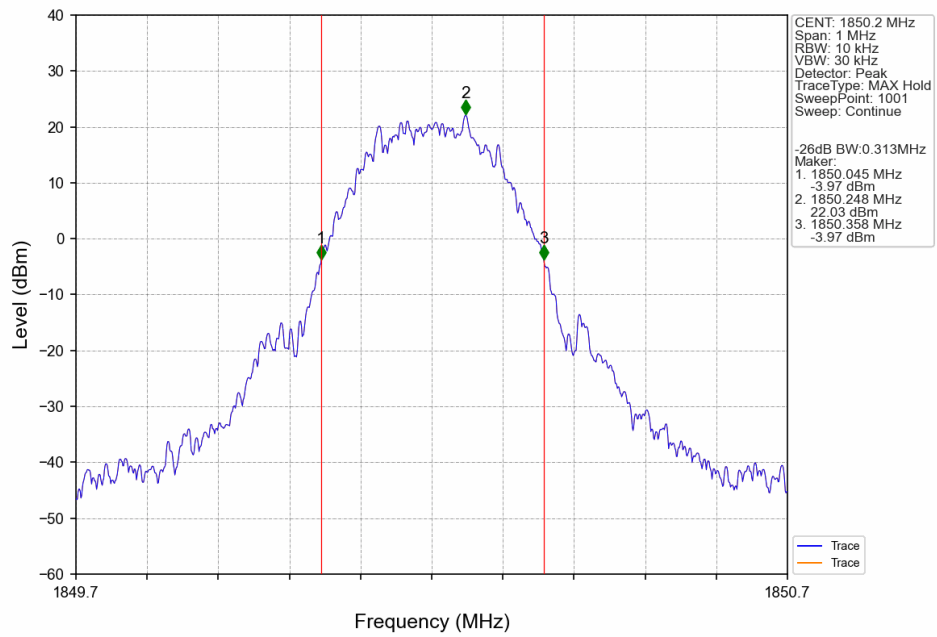
PCS1900 GPRS MCH 1880MHz 1 TX Slot NTNV



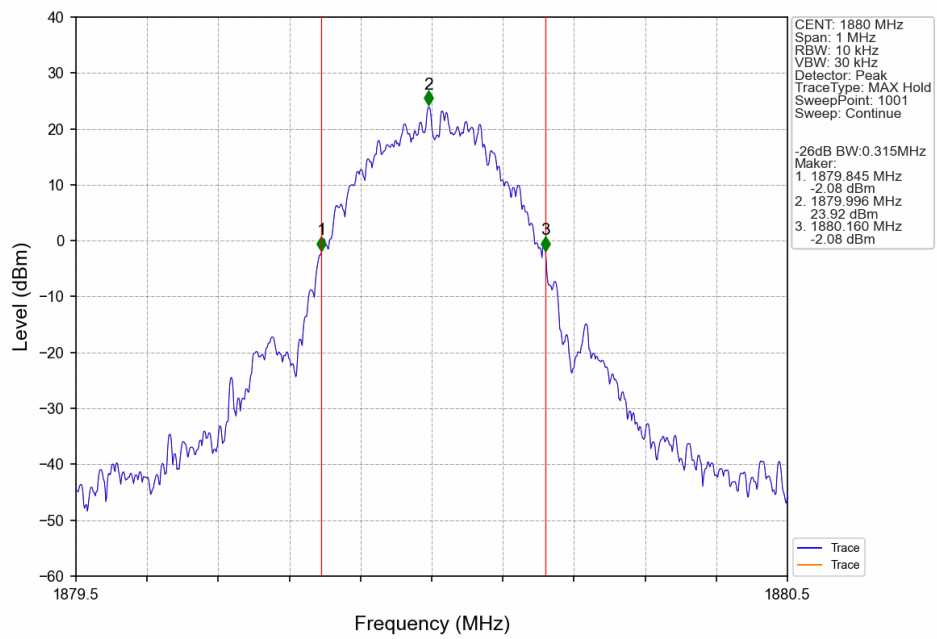
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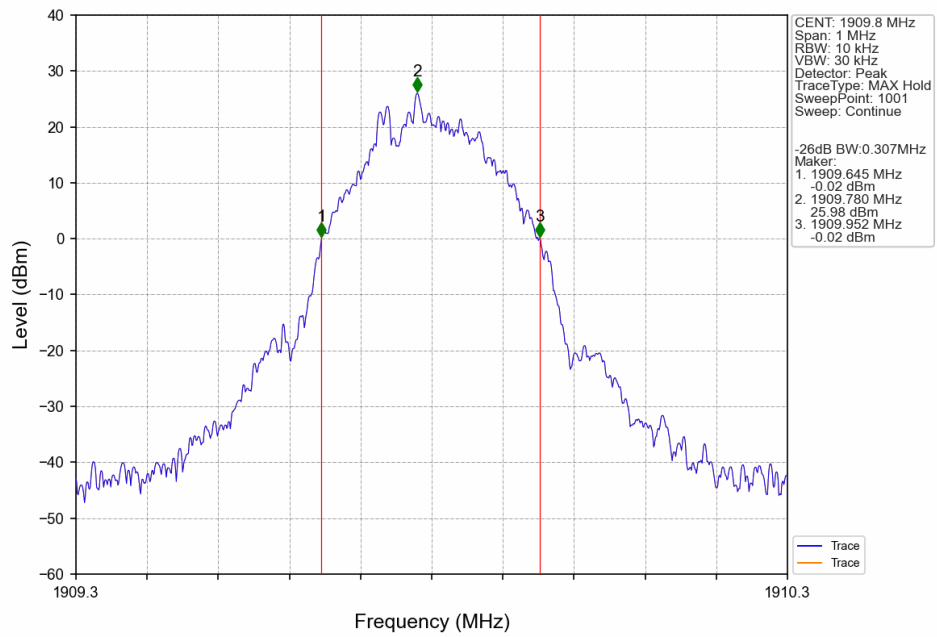
PCS1900 EGPRS LCH 1850.2MHz 1 TX Slot NTNV



PCS1900 EGPRS MCH 1880MHz 1 TX Slot NTNV



PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot NTNV



4. Peak-Average Ratio

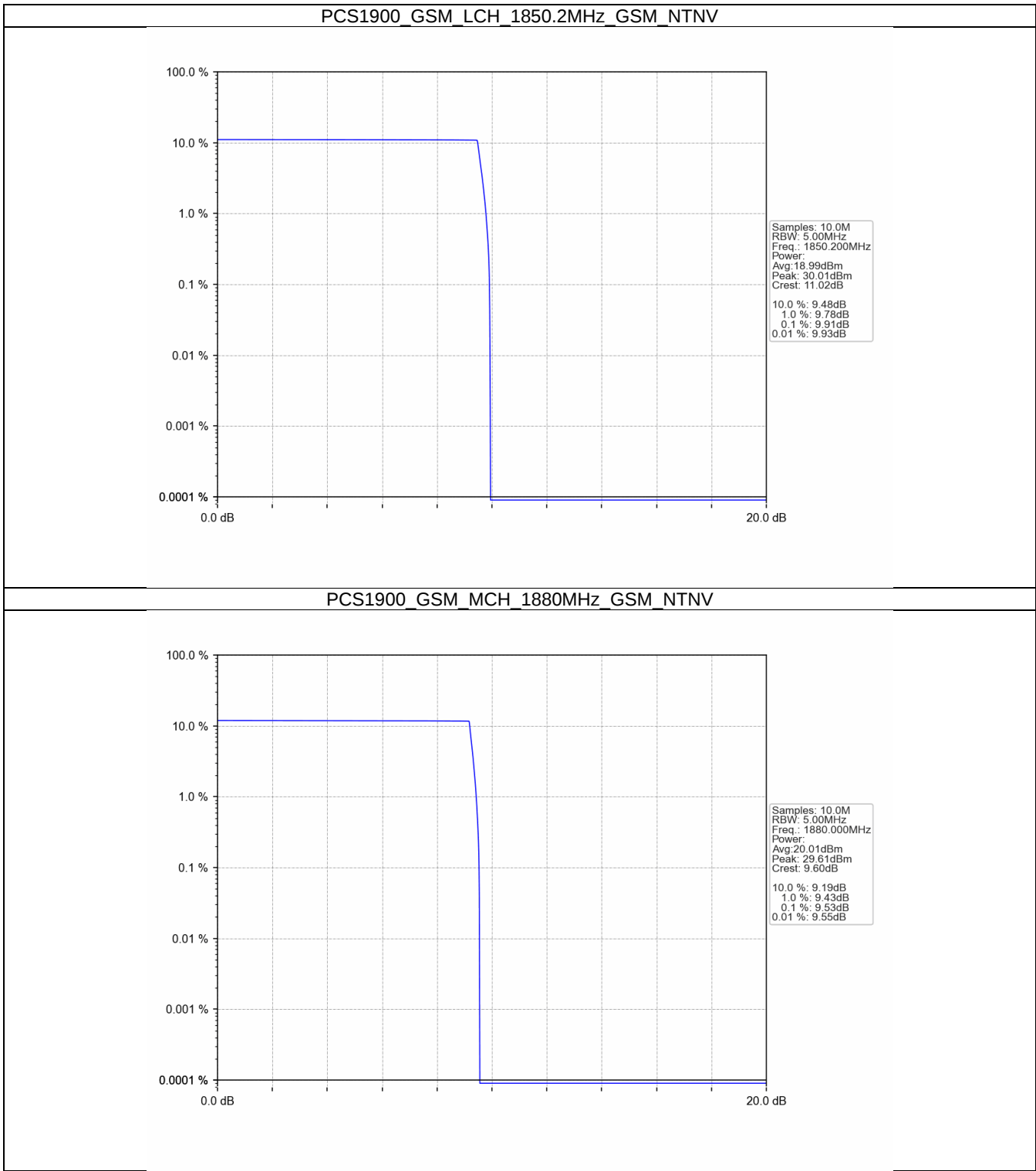
4.1 Test Result

4.1.1 PCS1900

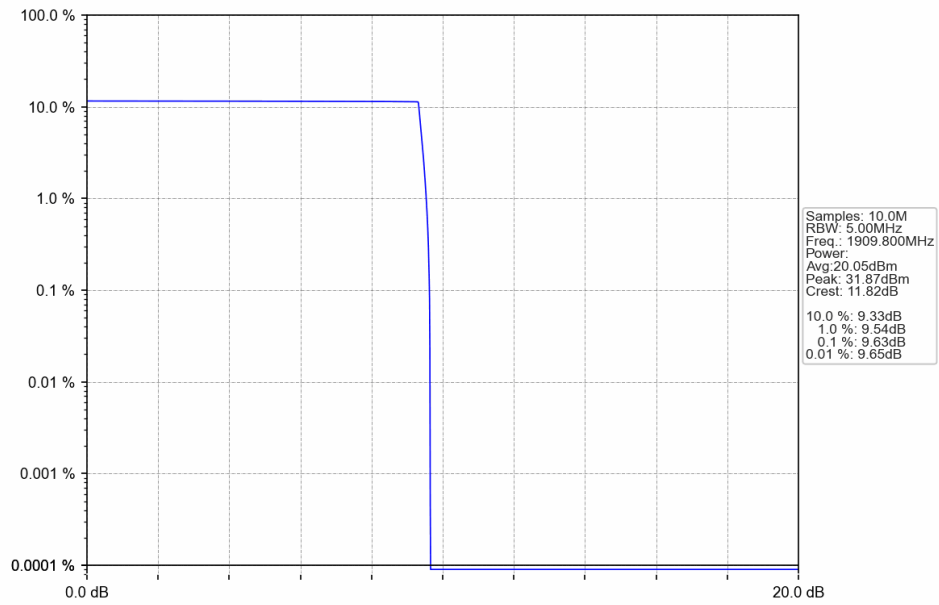
Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	9.91	<=13	Pass
			1880	9.53	<=13	Pass
			1909.8	9.63	<=13	Pass
	GPRS	4 TX Slots	1850.2	3.88	<=13	Pass
			1880	3.79	<=13	Pass
			1909.8	3.79	<=13	Pass
	EGPRS	4 TX Slots	1850.2	7.62	<=13	Pass
			1880	7.86	<=13	Pass
			1909.8	8.03	<=13	Pass

4.2 Test Graph

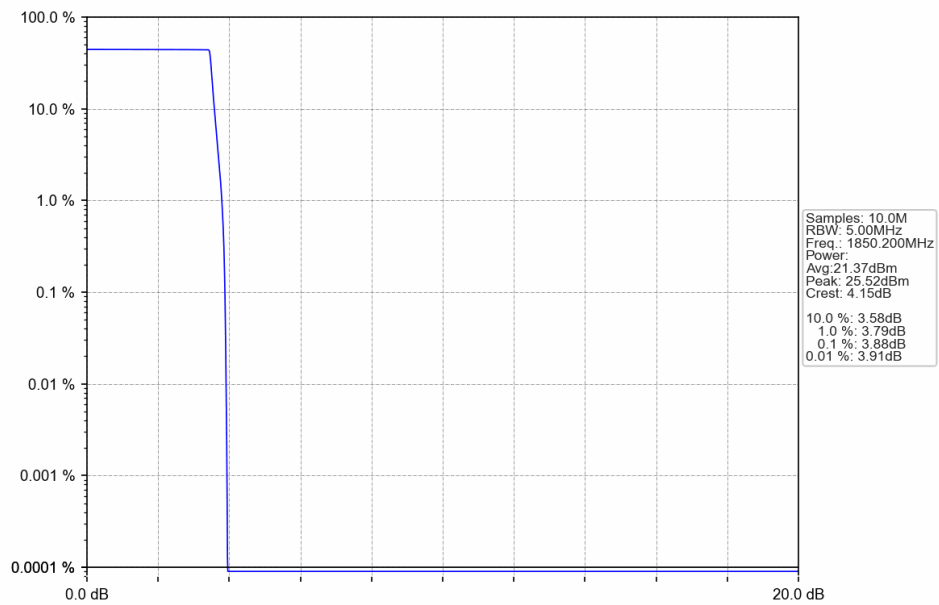
4.2.1 PCS1900



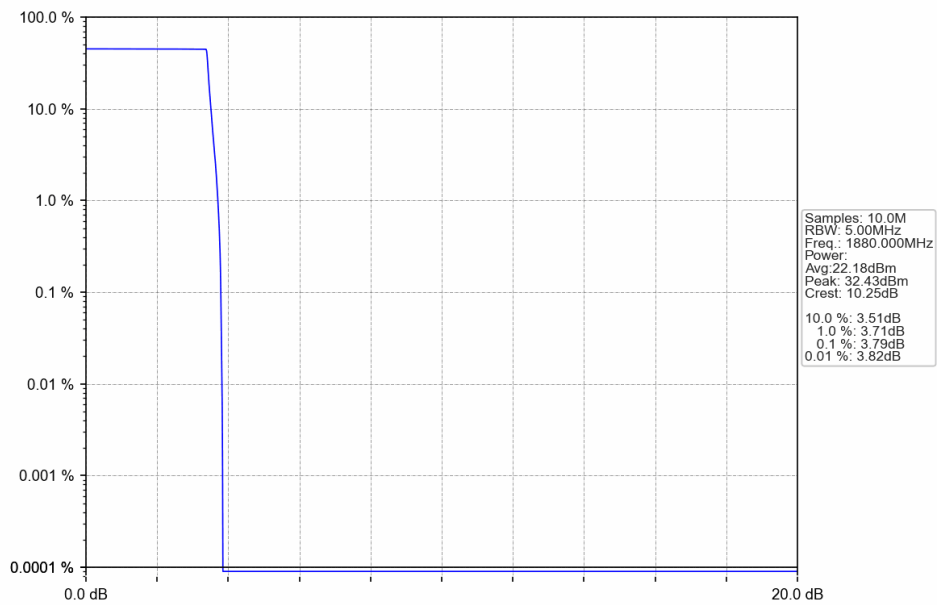
PCS1900 GSM HCH 1909.8MHz GSM NTV



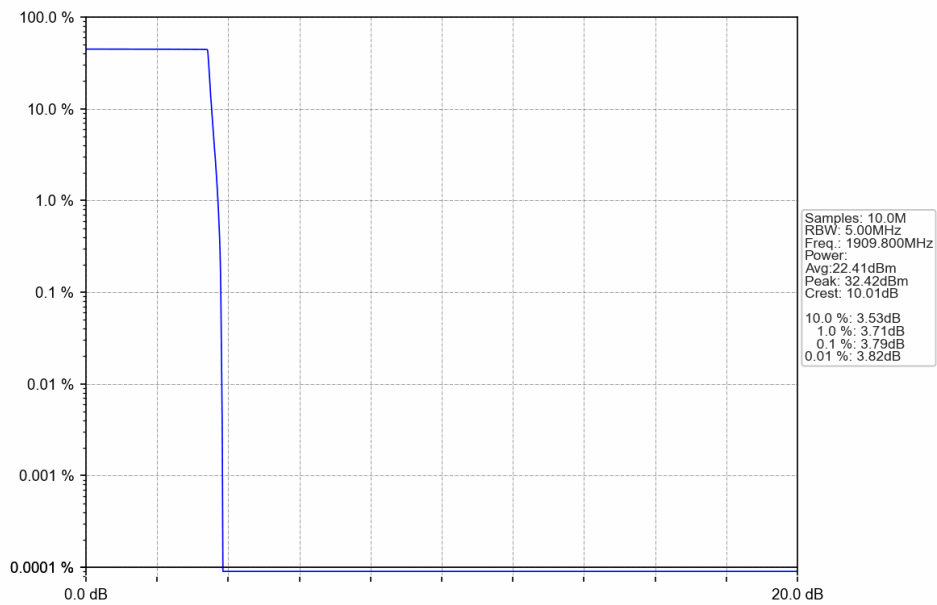
PCS1900 GPRS LCH 1850.2MHz 4 TX Slots NTV



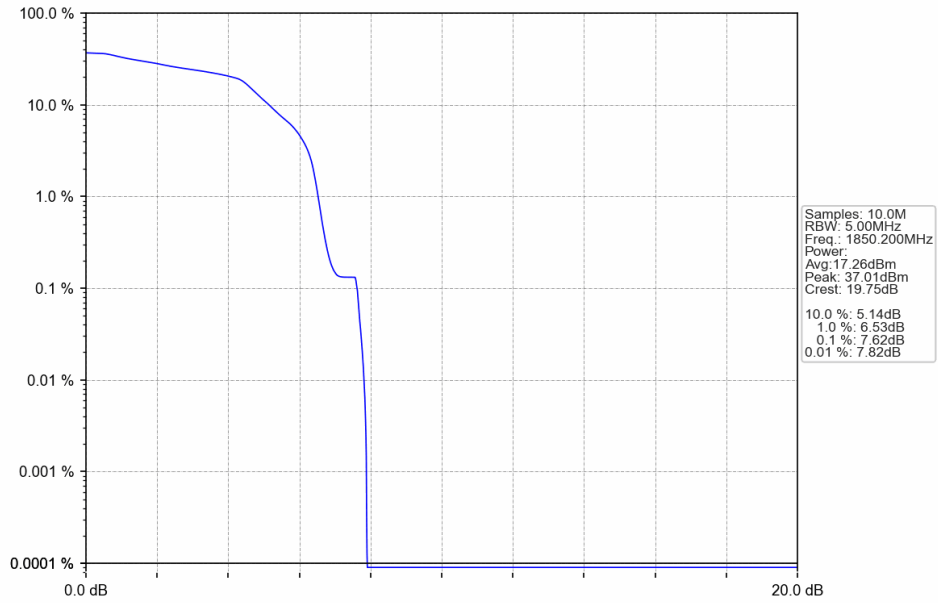
PCS1900 GPRS MCH 1880MHz 4 TX Slots NTNV



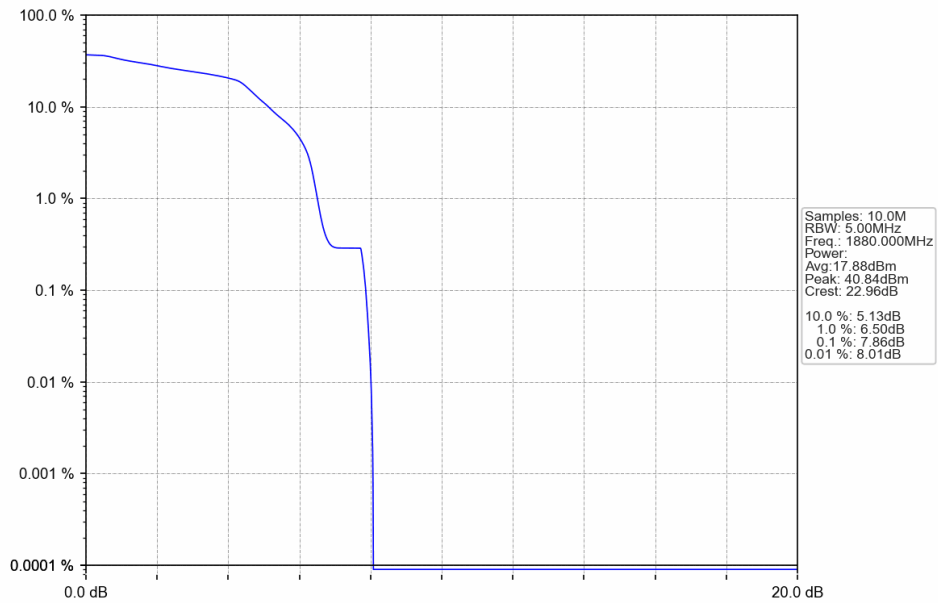
PCS1900 GPRS HCH 1909.8MHz 4 TX Slots NTNV



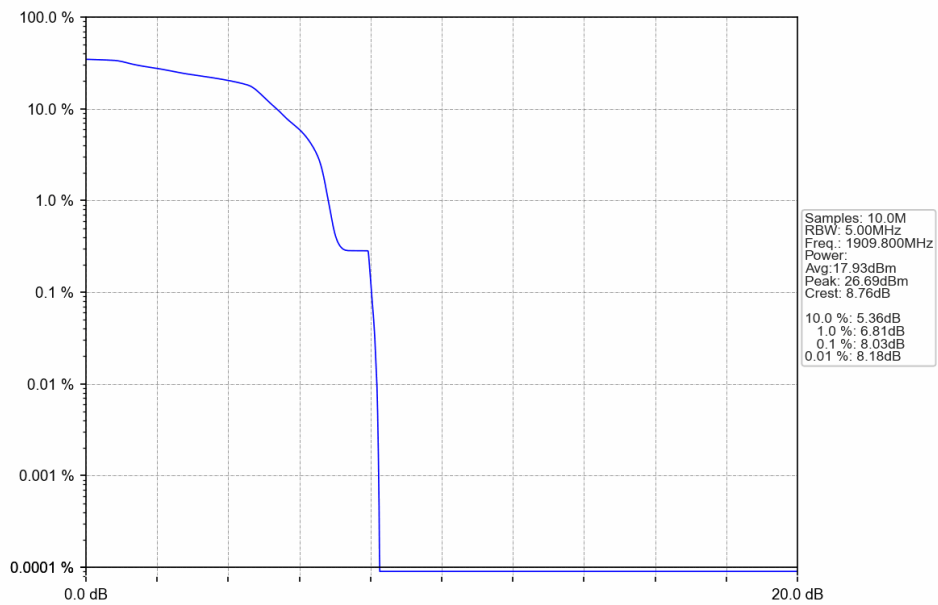
PCS1900 EGPRS LCH 1850.2MHz 4 TX Slots NTN



PCS1900 EGPRS MCH 1880MHz 4 TX Slots NTN



PCS1900 EGPRS HCH 1909.8MHz 4 TX Slots NTNV



5. Spurious Emission

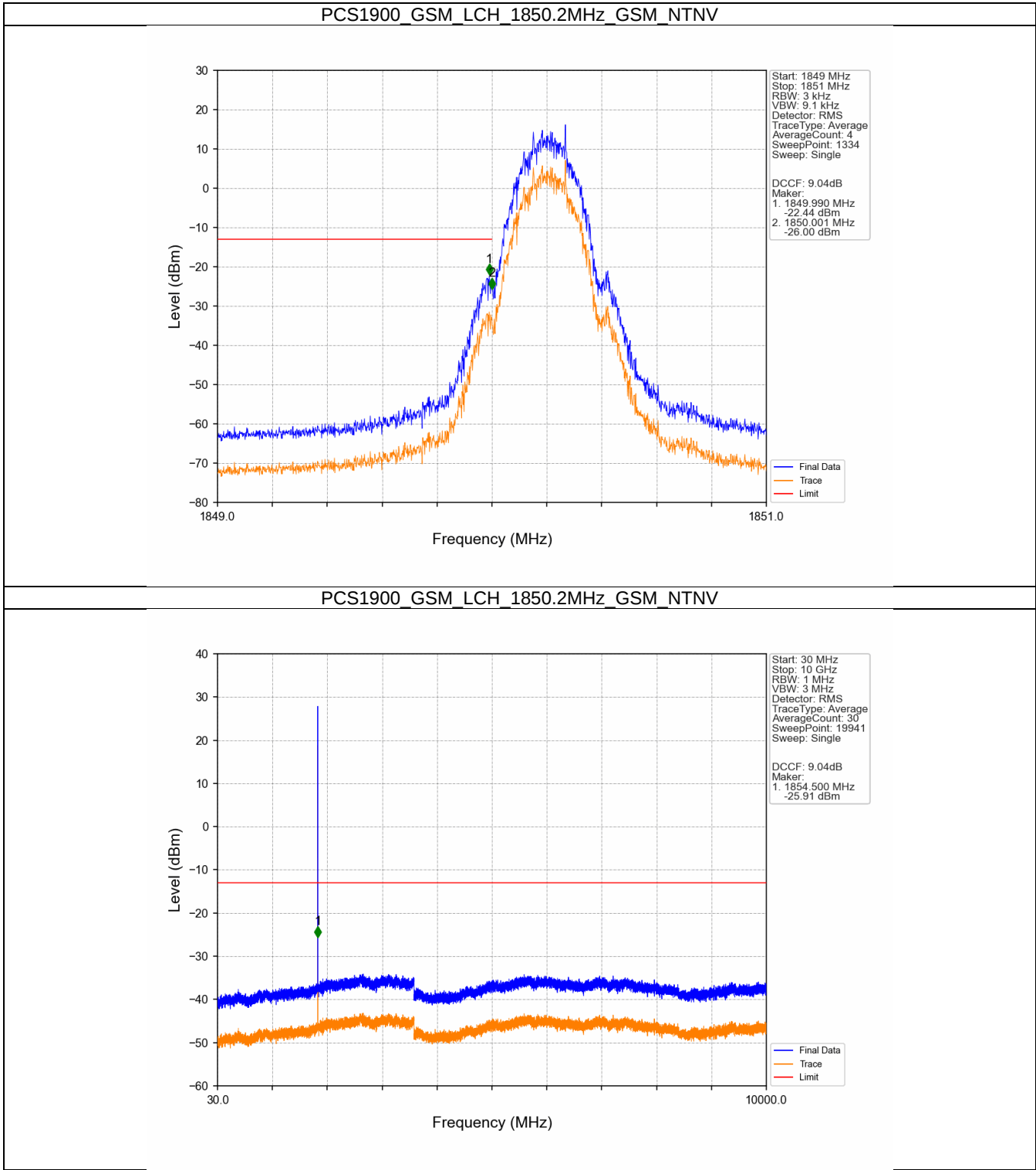
5.1 Test Result

5.1.1 PCS1900

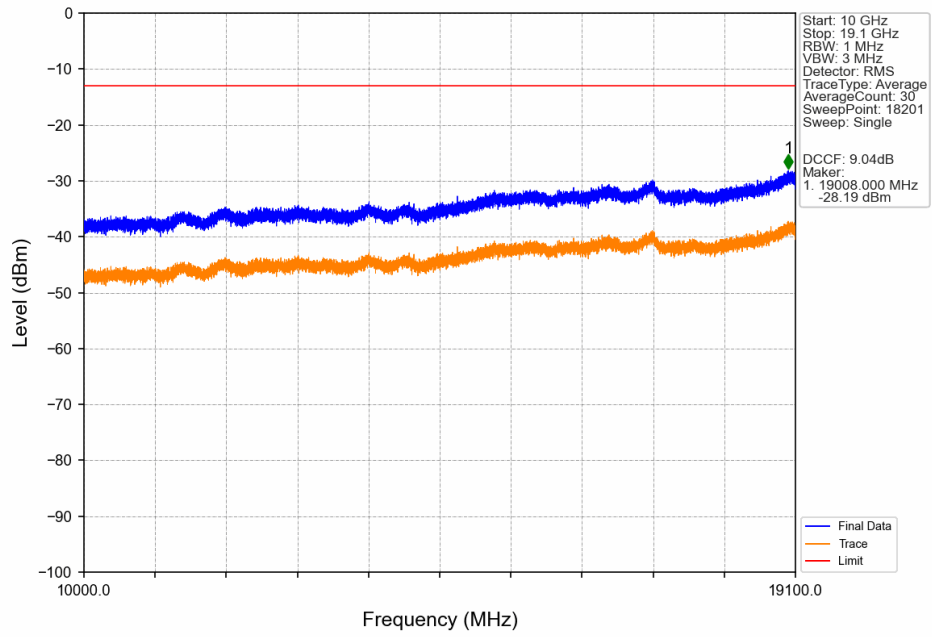
Band: PCS1900					
ENV	Mode		Frequency (MHz)	Spurious Emission	
	Network	Subset		Result	Limit
NTNV	GSM	GSM	1850.2	Refer To Test Graph	Pass
			1880	Refer To Test Graph	Pass
			1909.8	Refer To Test Graph	Pass
	GPRS	1 TX Slot	1850.2	Refer To Test Graph	Pass
			1880	Refer To Test Graph	Pass
			1909.8	Refer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

5.2 Test Graph

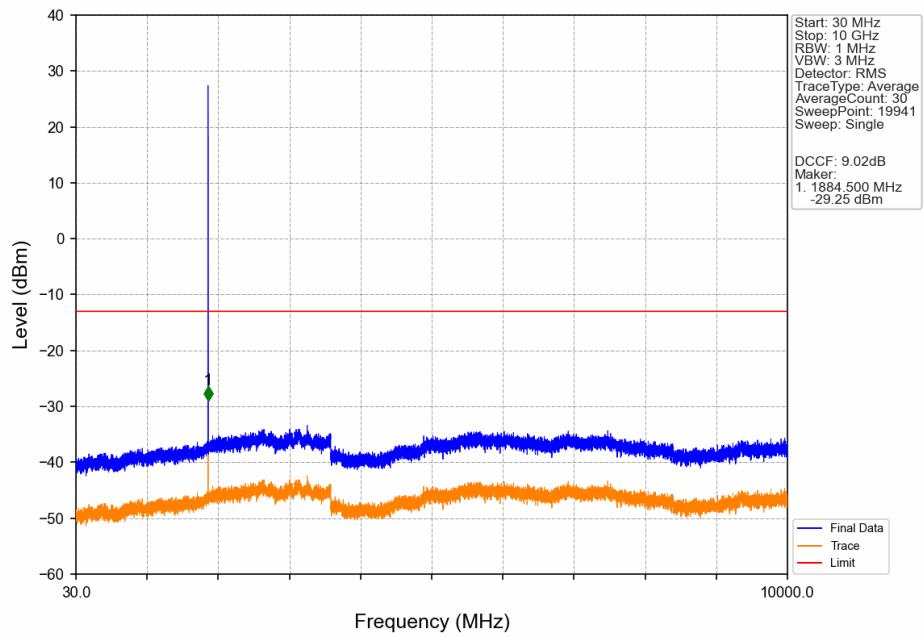
5.2.1 PCS1900



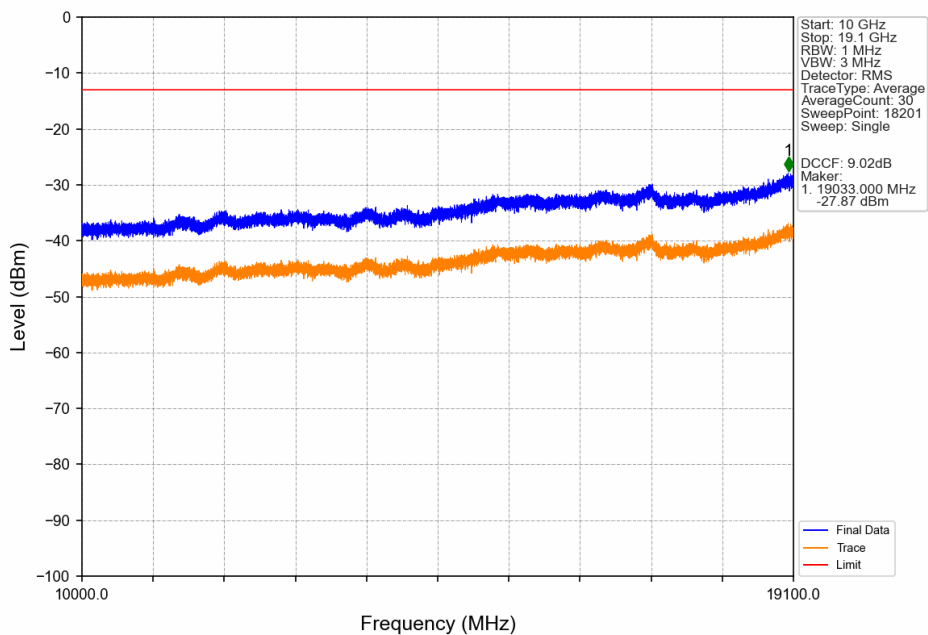
PCS1900 GSM LCH 1850.2MHz GSM NTNV



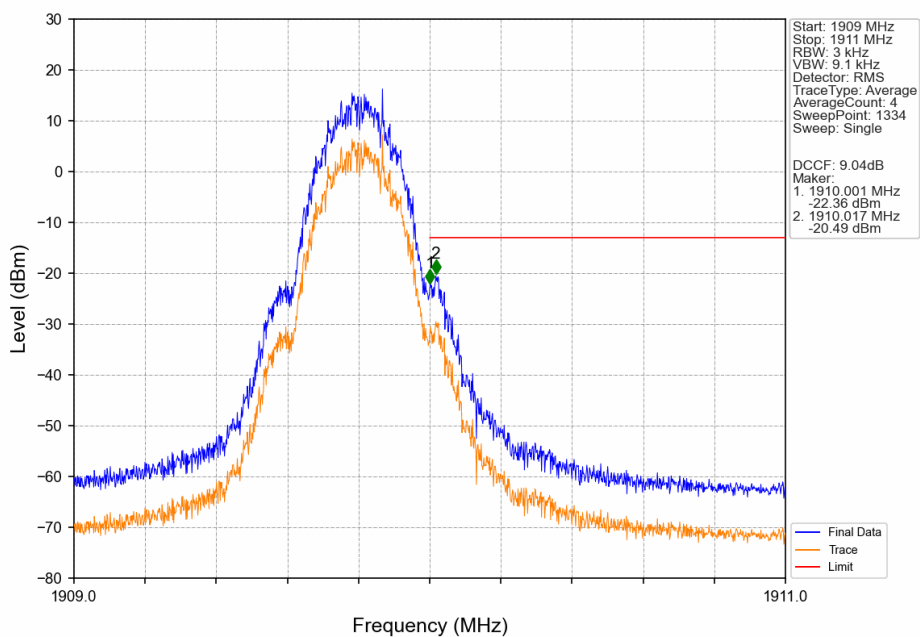
PCS1900 GSM MCH 1880MHz GSM NTNV



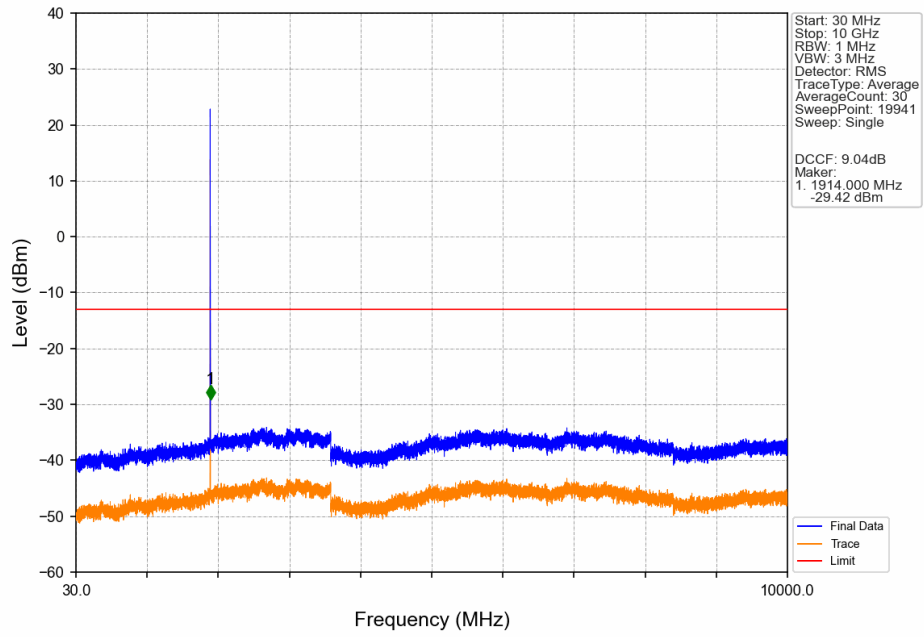
PCS1900 GSM MCH 1880MHz GSM NTN



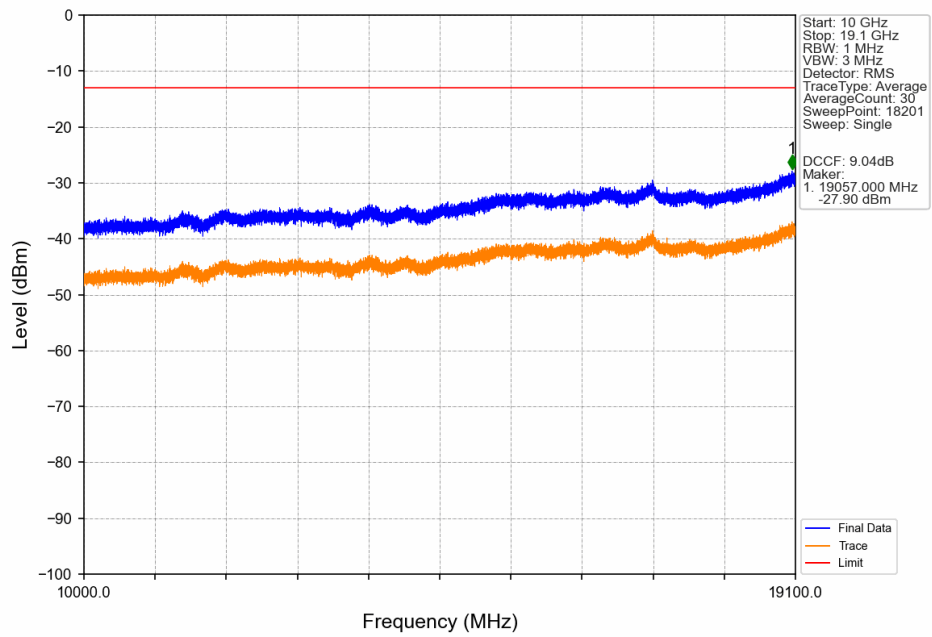
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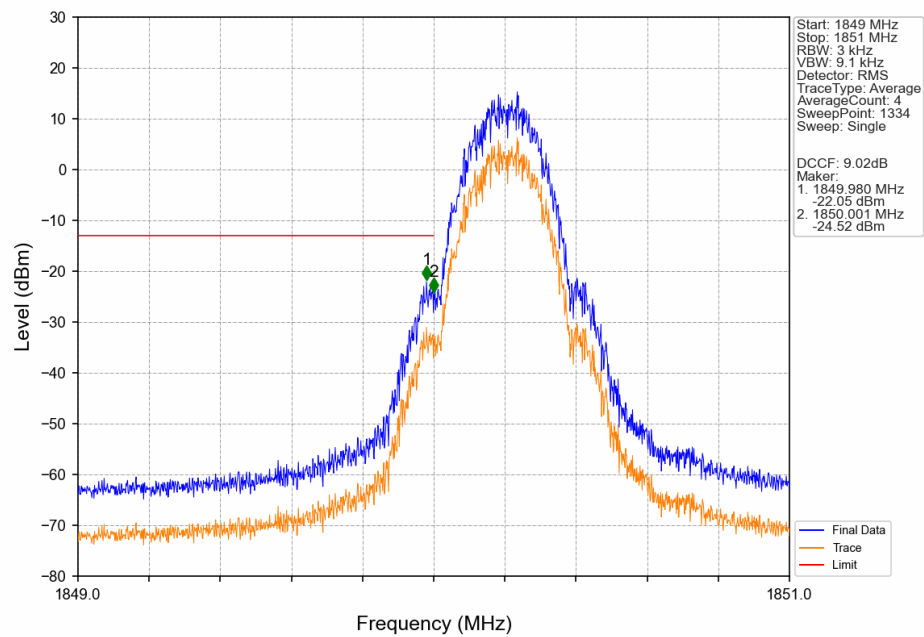
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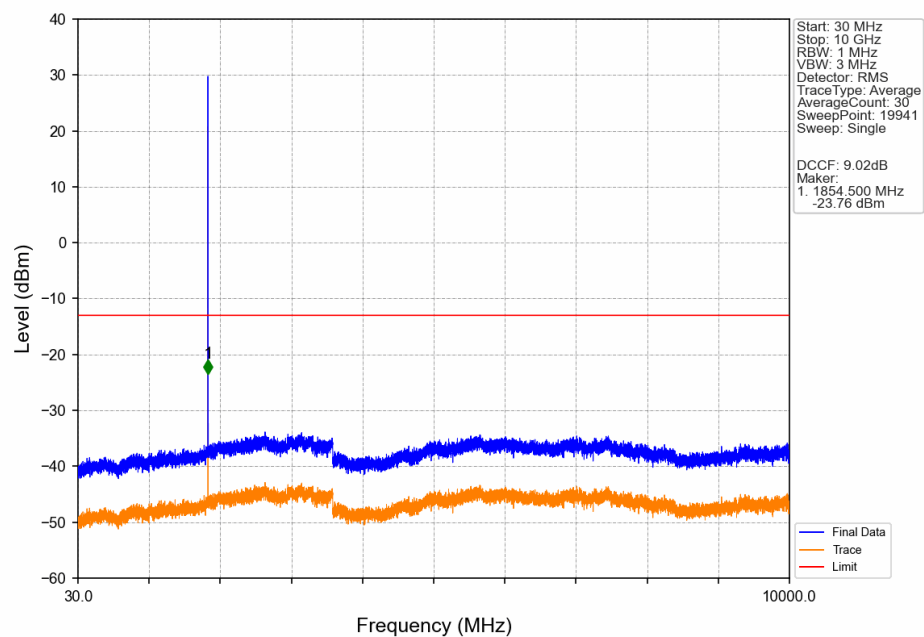
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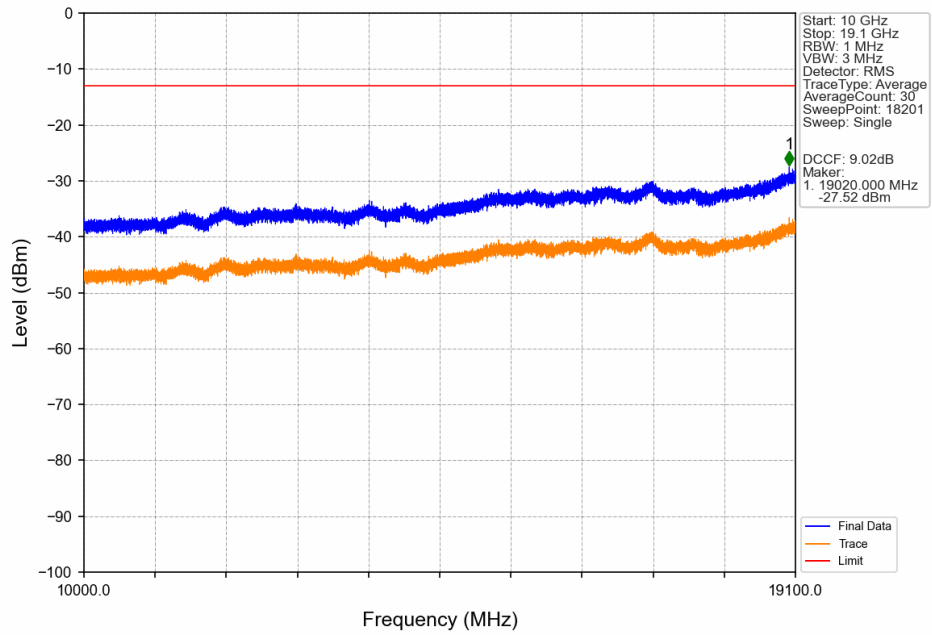
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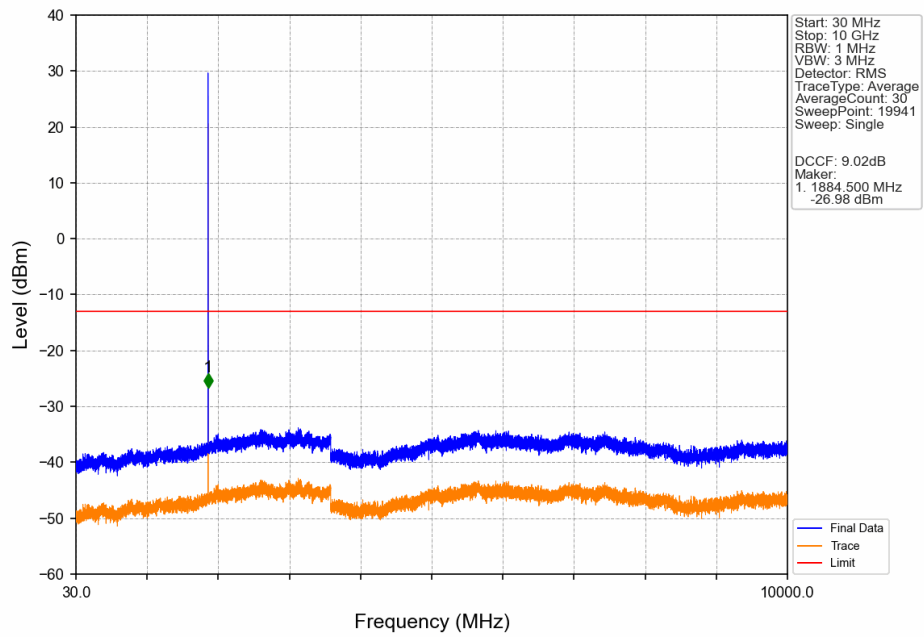
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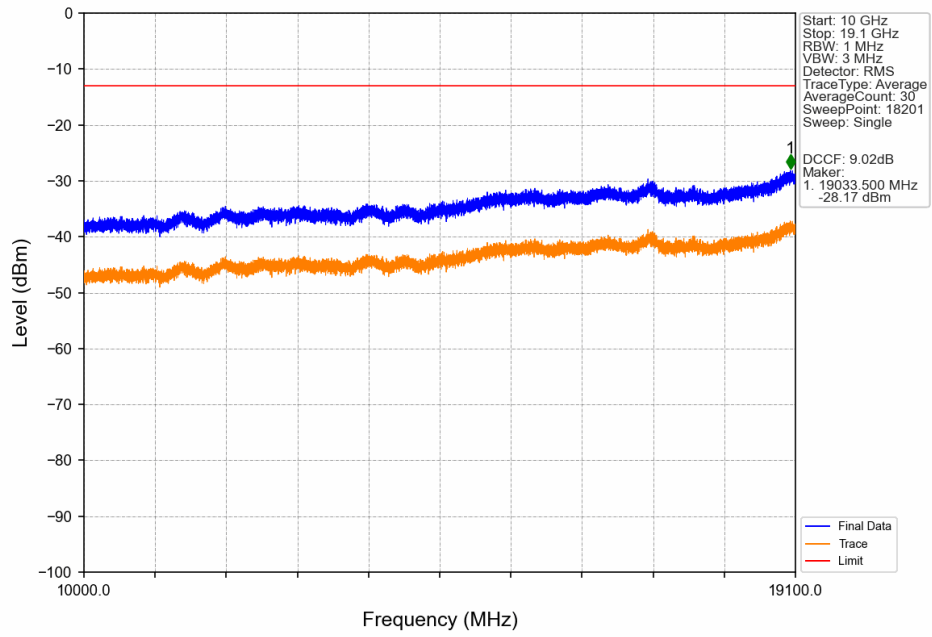
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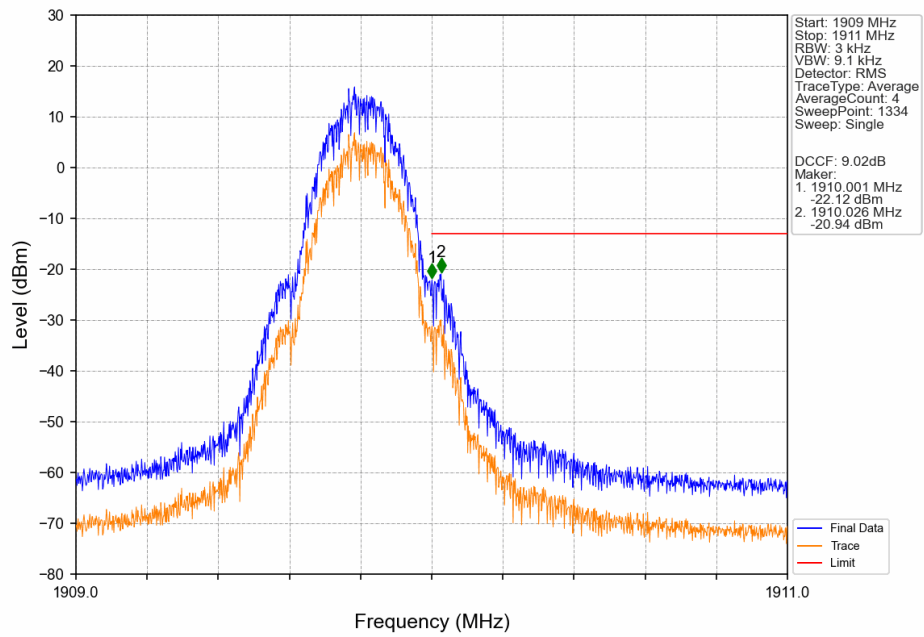
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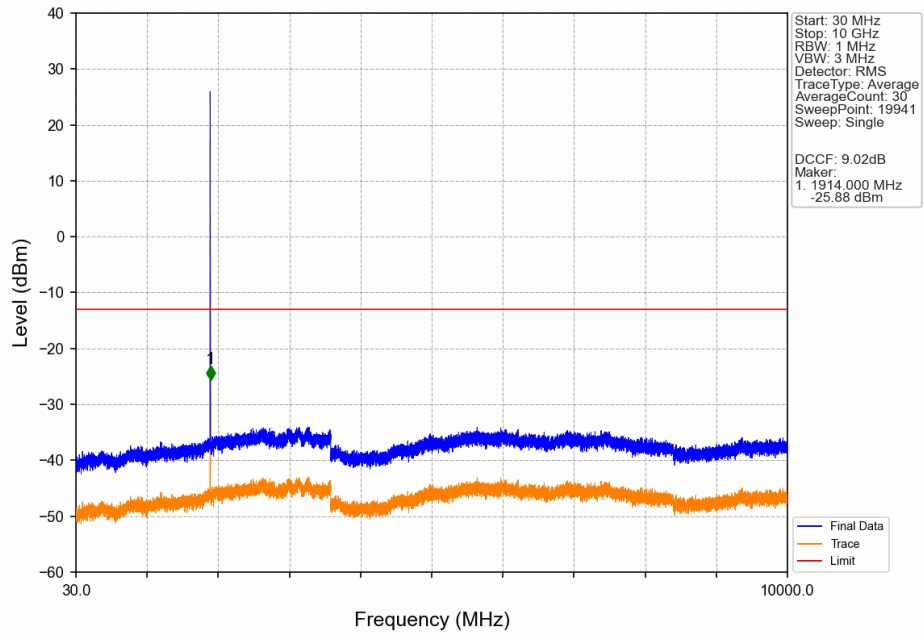
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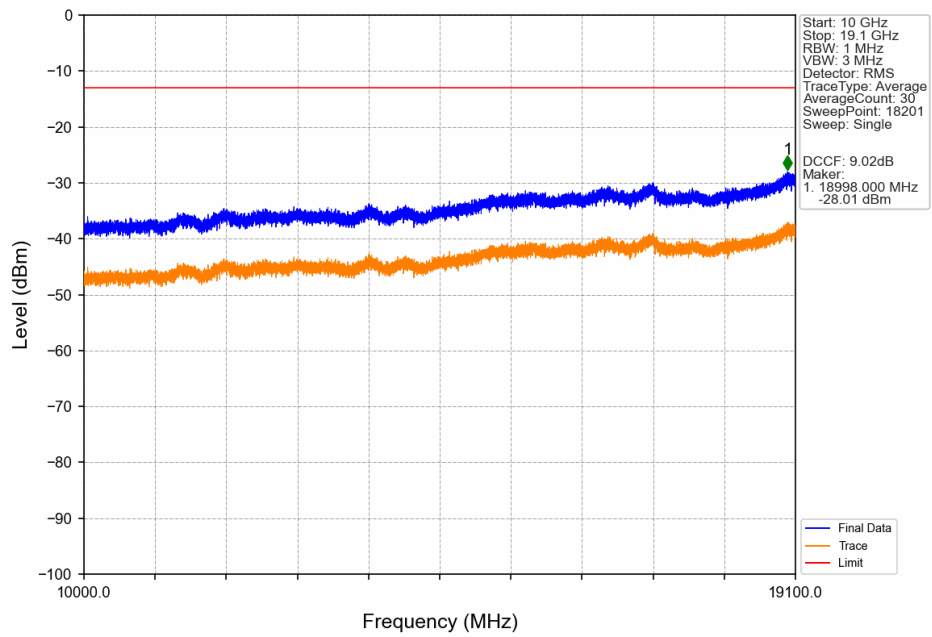
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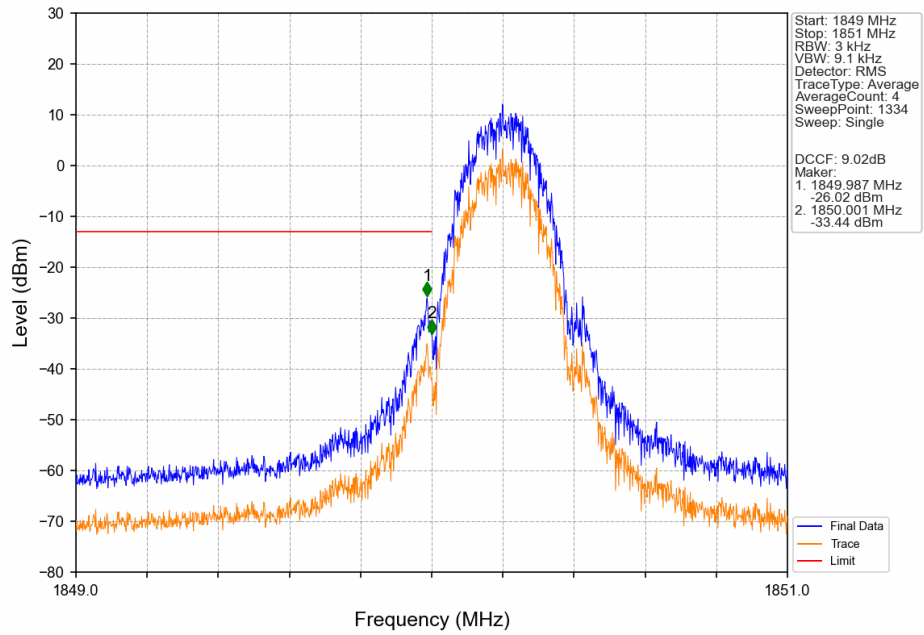
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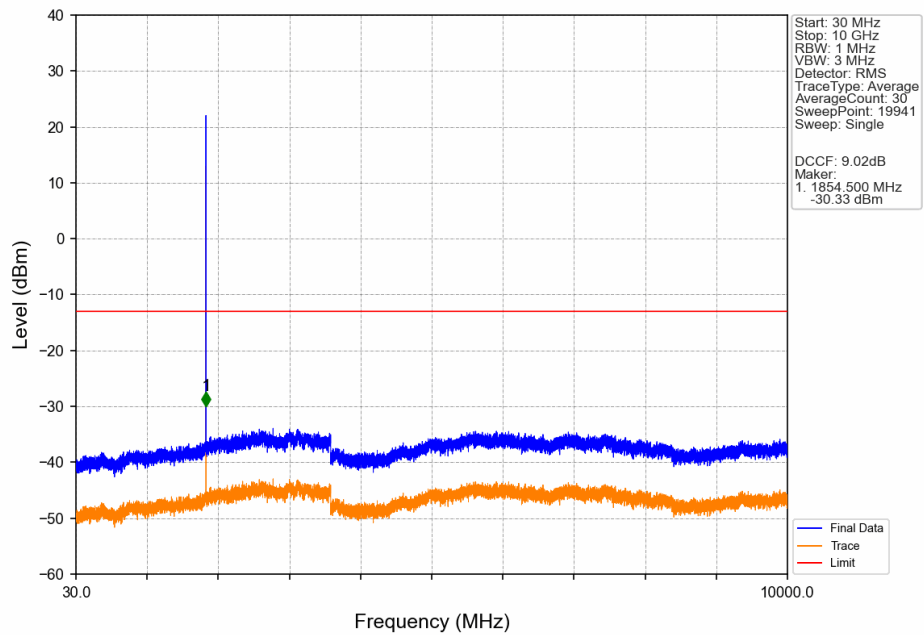
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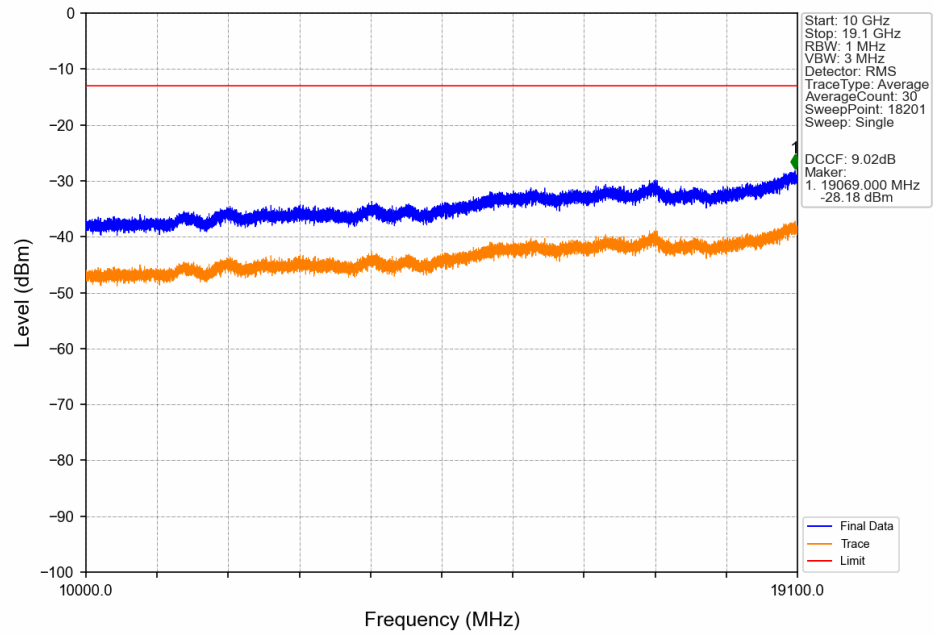
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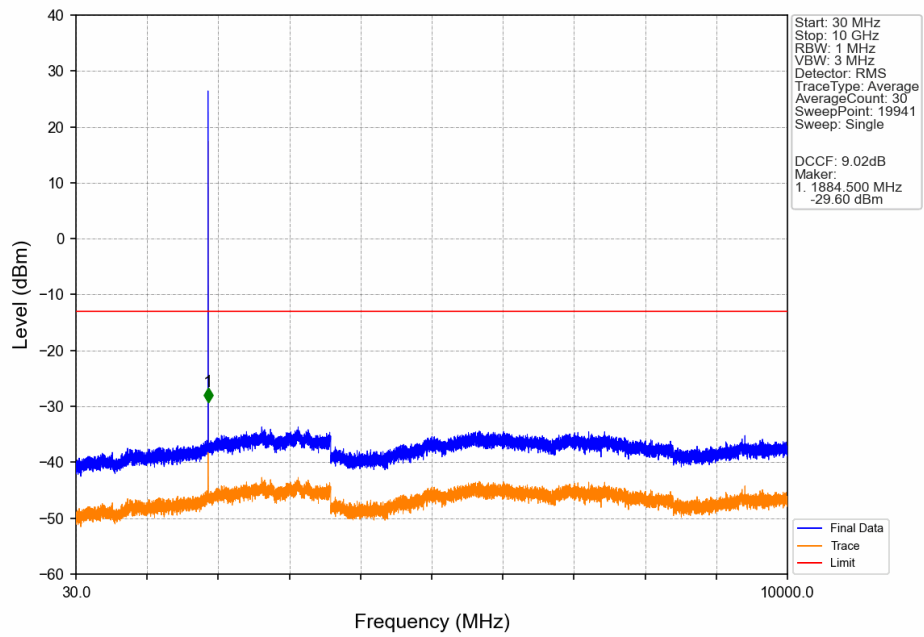
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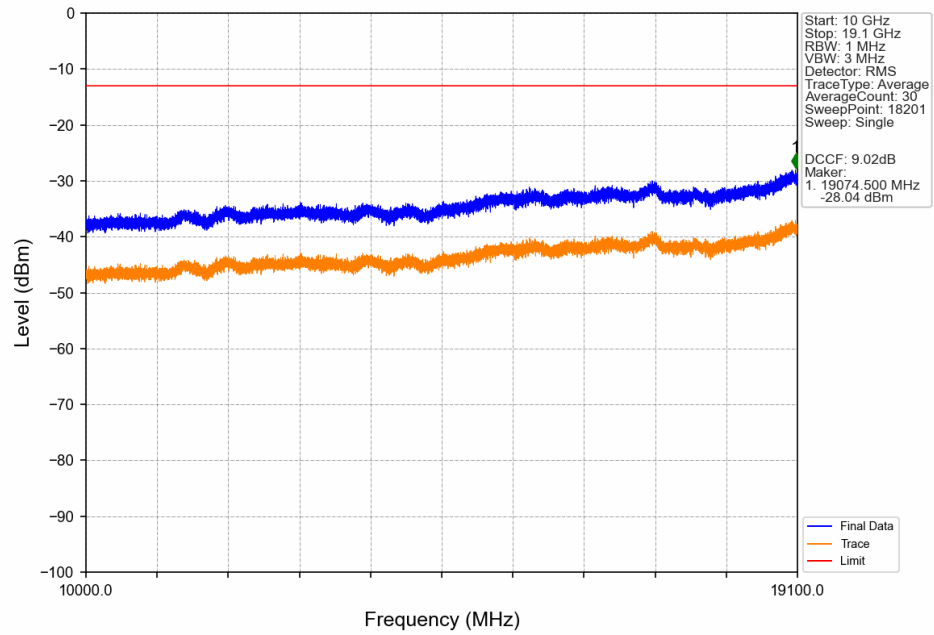
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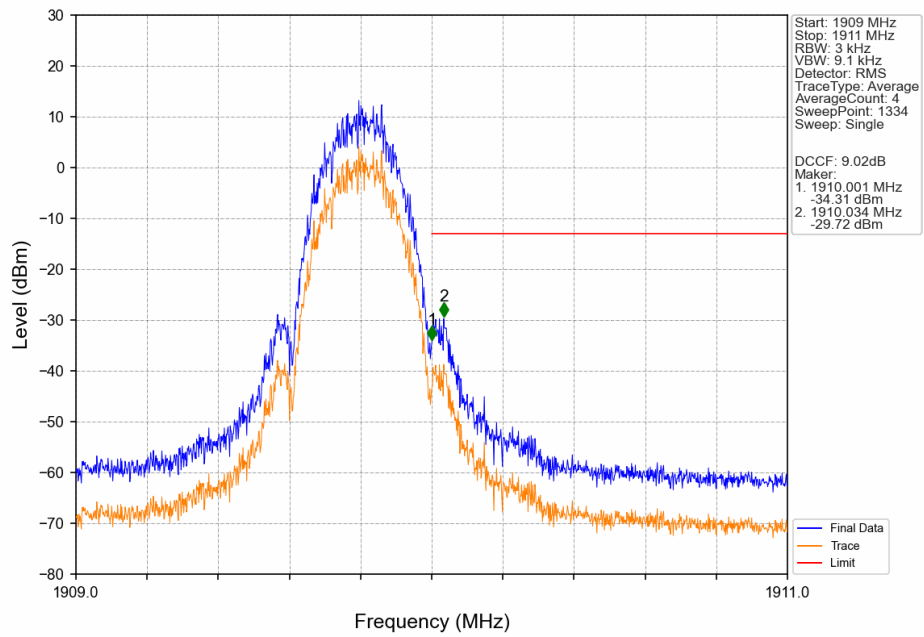
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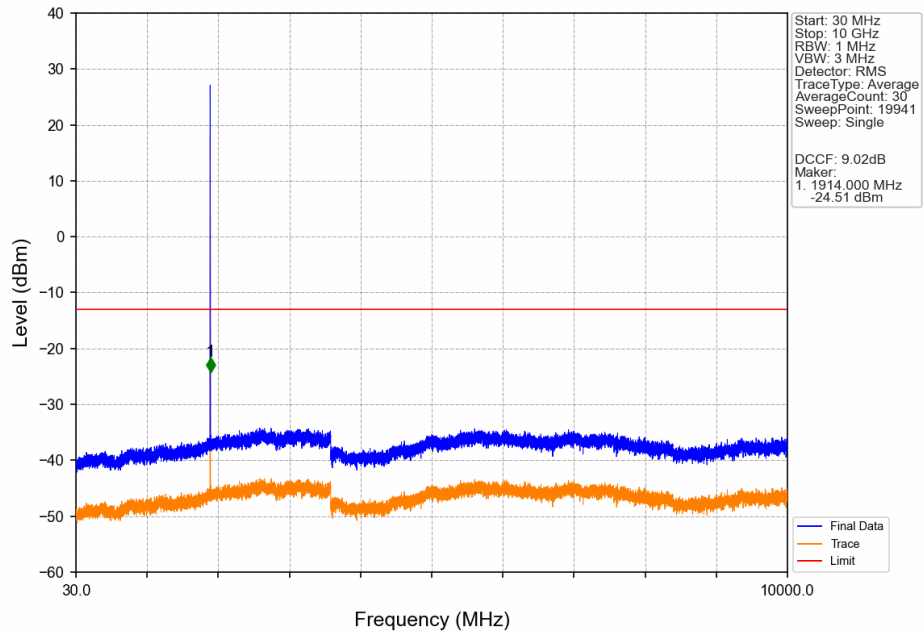
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PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot NTNV



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