

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	30.87	-0.34	30.53	<=33.01	Pass
			1880	30.98	-0.34	30.64	<=33.01	Pass
			1909.8	30.89	-0.34	30.55	<=33.01	Pass
	GPRS	1 TX Slot	1850.2	30.88	-0.34	30.54	<=33.01	Pass
		2 TX Slots	1850.2	29.99	-0.34	29.65	<=33.01	Pass
		3 TX Slots	1850.2	28.56	-0.34	28.22	<=33.01	Pass
		4 TX Slots	1850.2	28.06	-0.34	27.72	<=33.01	Pass
		1 TX Slot	1880	30.95	-0.34	30.61	<=33.01	Pass
		2 TX Slots	1880	30.08	-0.34	29.74	<=33.01	Pass
		3 TX Slots	1880	28.64	-0.34	28.30	<=33.01	Pass
		4 TX Slots	1880	28.12	-0.34	27.78	<=33.01	Pass
		1 TX Slot	1909.8	30.86	-0.34	30.52	<=33.01	Pass
		2 TX Slots	1909.8	29.99	-0.34	29.65	<=33.01	Pass
		3 TX Slots	1909.8	28.55	-0.34	28.21	<=33.01	Pass
		4 TX Slots	1909.8	28.04	-0.34	27.70	<=33.01	Pass
	EGPRS	1 TX Slot	1850.2	31.66	-0.34	31.32	<=33.01	Pass
		2 TX Slots	1850.2	31.23	-0.34	30.89	<=33.01	Pass
		3 TX Slots	1850.2	29.91	-0.34	29.57	<=33.01	Pass
		4 TX Slots	1850.2	28.93	-0.34	28.59	<=33.01	Pass
		1 TX Slot	1880	31.67	-0.34	31.33	<=33.01	Pass
		2 TX Slots	1880	31.37	-0.34	31.03	<=33.01	Pass
		3 TX Slots	1880	30.02	-0.34	29.68	<=33.01	Pass
		4 TX Slots	1880	29.23	-0.34	28.89	<=33.01	Pass
		1 TX Slot	1909.8	31.36	-0.34	31.02	<=33.01	Pass
		2 TX Slots	1909.8	30.95	-0.34	30.61	<=33.01	Pass
		3 TX Slots	1909.8	29.76	-0.34	29.42	<=33.01	Pass
		4 TX Slots	1909.8	28.93	-0.34	28.59	<=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	
GSM	1850.2	20	3.27	-13.269	-0.0072	-2.5 to 2.5	Pass
			3.85	-12.495	-0.0068	-2.5 to 2.5	Pass
			4.43	-5.941	-0.0032	-2.5 to 2.5	Pass
		-30	3.85	-1.065	-0.0006	-2.5 to 2.5	Pass
		-20	3.85	-2.647	-0.0014	-2.5 to 2.5	Pass
		-10	3.85	-2.744	-0.0015	-2.5 to 2.5	Pass
		0	3.85	-3.293	-0.0018	-2.5 to 2.5	Pass
		10	3.85	-1.421	-0.0008	-2.5 to 2.5	Pass

		30	3.85	1.065	0.0006	-2.5 to 2.5	Pass
		40	3.85	-6.619	-0.0036	-2.5 to 2.5	Pass
		50	3.85	-16.111	-0.0087	-2.5 to 2.5	Pass
	1880	20	3.27	-3.519	-0.0019	-2.5 to 2.5	Pass
			3.85	-0.032	0.0000	-2.5 to 2.5	Pass
			4.43	-1.388	-0.0007	-2.5 to 2.5	Pass
		-30	3.85	0.936	0.0005	-2.5 to 2.5	Pass
		-20	3.85	0.517	0.0003	-2.5 to 2.5	Pass
		-10	3.85	1.098	0.0006	-2.5 to 2.5	Pass
		0	3.85	0.936	0.0005	-2.5 to 2.5	Pass
		10	3.85	2.228	0.0012	-2.5 to 2.5	Pass
		30	3.85	1.647	0.0009	-2.5 to 2.5	Pass
		40	3.85	-3.003	-0.0016	-2.5 to 2.5	Pass
		50	3.85	-7.878	-0.0042	-2.5 to 2.5	Pass
	1909.8	20	3.27	2.486	0.0013	-2.5 to 2.5	Pass
			3.85	-3.487	-0.0018	-2.5 to 2.5	Pass
			4.43	0.872	0.0005	-2.5 to 2.5	Pass
		-30	3.85	3.455	0.0018	-2.5 to 2.5	Pass
		-20	3.85	-2.260	-0.0012	-2.5 to 2.5	Pass
		-10	3.85	0.323	0.0002	-2.5 to 2.5	Pass
		0	3.85	6.070	0.0032	-2.5 to 2.5	Pass
		10	3.85	0.291	0.0002	-2.5 to 2.5	Pass
		30	3.85	-1.969	-0.0010	-2.5 to 2.5	Pass
		40	3.85	-7.232	-0.0038	-2.5 to 2.5	Pass
		50	3.85	-1.808	-0.0009	-2.5 to 2.5	Pass
GPRS	1850.2	20	3.27	-8.814	-0.0048	-2.5 to 2.5	Pass
			3.85	0.097	0.0001	-2.5 to 2.5	Pass
			4.43	-3.196	-0.0017	-2.5 to 2.5	Pass
		-30	3.85	-0.969	-0.0005	-2.5 to 2.5	Pass
		-20	3.85	-2.421	-0.0013	-2.5 to 2.5	Pass
		-10	3.85	1.421	0.0008	-2.5 to 2.5	Pass
		0	3.85	-4.907	-0.0027	-2.5 to 2.5	Pass
		10	3.85	-1.517	-0.0008	-2.5 to 2.5	Pass
		30	3.85	-1.485	-0.0008	-2.5 to 2.5	Pass
		40	3.85	-0.194	-0.0001	-2.5 to 2.5	Pass
		50	3.85	5.747	0.0031	-2.5 to 2.5	Pass
	1880	20	3.27	2.357	0.0013	-2.5 to 2.5	Pass
			3.85	-3.422	-0.0018	-2.5 to 2.5	Pass
			4.43	-4.681	-0.0025	-2.5 to 2.5	Pass
		-30	3.85	-3.196	-0.0017	-2.5 to 2.5	Pass
		-20	3.85	2.131	0.0011	-2.5 to 2.5	Pass
		-10	3.85	-0.387	-0.0002	-2.5 to 2.5	Pass
		0	3.85	-1.776	-0.0009	-2.5 to 2.5	Pass
		10	3.85	-1.001	-0.0005	-2.5 to 2.5	Pass
		30	3.85	-0.065	0.0000	-2.5 to 2.5	Pass
		40	3.85	2.841	0.0015	-2.5 to 2.5	Pass
		50	3.85	1.033	0.0005	-2.5 to 2.5	Pass
	1909.8	20	3.27	-3.648	-0.0019	-2.5 to 2.5	Pass
			3.85	-1.905	-0.0010	-2.5 to 2.5	Pass
			4.43	-5.553	-0.0029	-2.5 to 2.5	Pass
		-30	3.85	-1.614	-0.0008	-2.5 to 2.5	Pass
		-20	3.85	1.905	0.0010	-2.5 to 2.5	Pass
		-10	3.85	-1.065	-0.0006	-2.5 to 2.5	Pass
		0	3.85	2.551	0.0013	-2.5 to 2.5	Pass
		10	3.85	-1.873	-0.0010	-2.5 to 2.5	Pass
		30	3.85	-1.001	-0.0005	-2.5 to 2.5	Pass
		40	3.85	0.420	0.0002	-2.5 to 2.5	Pass
		50	3.85	-4.165	-0.0022	-2.5 to 2.5	Pass
EGPRS	1850.2	20	3.27	-9.460	-0.0051	-2.5 to 2.5	Pass

			3.85	-6.651	-0.0036	-2.5 to 2.5	Pass
			4.43	-12.721	-0.0069	-2.5 to 2.5	Pass
		-30	3.85	-8.007	-0.0043	-2.5 to 2.5	Pass
		-20	3.85	-15.110	-0.0082	-2.5 to 2.5	Pass
		-10	3.85	-12.043	-0.0065	-2.5 to 2.5	Pass
		0	3.85	-7.071	-0.0038	-2.5 to 2.5	Pass
		10	3.85	-4.585	-0.0025	-2.5 to 2.5	Pass
		30	3.85	-6.748	-0.0036	-2.5 to 2.5	Pass
		40	3.85	-3.229	-0.0017	-2.5 to 2.5	Pass
		50	3.85	-1.937	-0.0010	-2.5 to 2.5	Pass
	1880	20	3.27	-2.421	-0.0013	-2.5 to 2.5	Pass
			3.85	-4.585	-0.0024	-2.5 to 2.5	Pass
			4.43	-12.656	-0.0067	-2.5 to 2.5	Pass
		-30	3.85	-0.969	-0.0005	-2.5 to 2.5	Pass
		-20	3.85	-7.006	-0.0037	-2.5 to 2.5	Pass
		-10	3.85	-7.103	-0.0038	-2.5 to 2.5	Pass
		0	3.85	-6.522	-0.0035	-2.5 to 2.5	Pass
		10	3.85	-5.973	-0.0032	-2.5 to 2.5	Pass
		30	3.85	-2.680	-0.0014	-2.5 to 2.5	Pass
		40	3.85	-4.649	-0.0025	-2.5 to 2.5	Pass
		50	3.85	-7.329	-0.0039	-2.5 to 2.5	Pass
	1909.8	20	3.27	-7.749	-0.0041	-2.5 to 2.5	Pass
			3.85	-4.778	-0.0025	-2.5 to 2.5	Pass
			4.43	-5.779	-0.0030	-2.5 to 2.5	Pass
		-30	3.85	-11.978	-0.0063	-2.5 to 2.5	Pass
		-20	3.85	-3.519	-0.0018	-2.5 to 2.5	Pass
		-10	3.85	-9.718	-0.0051	-2.5 to 2.5	Pass
		0	3.85	-0.743	-0.0004	-2.5 to 2.5	Pass
		10	3.85	-7.942	-0.0042	-2.5 to 2.5	Pass
		30	3.85	-8.523	-0.0045	-2.5 to 2.5	Pass
		40	3.85	-7.297	-0.0038	-2.5 to 2.5	Pass
		50	3.85	-6.425	-0.0034	-2.5 to 2.5	Pass

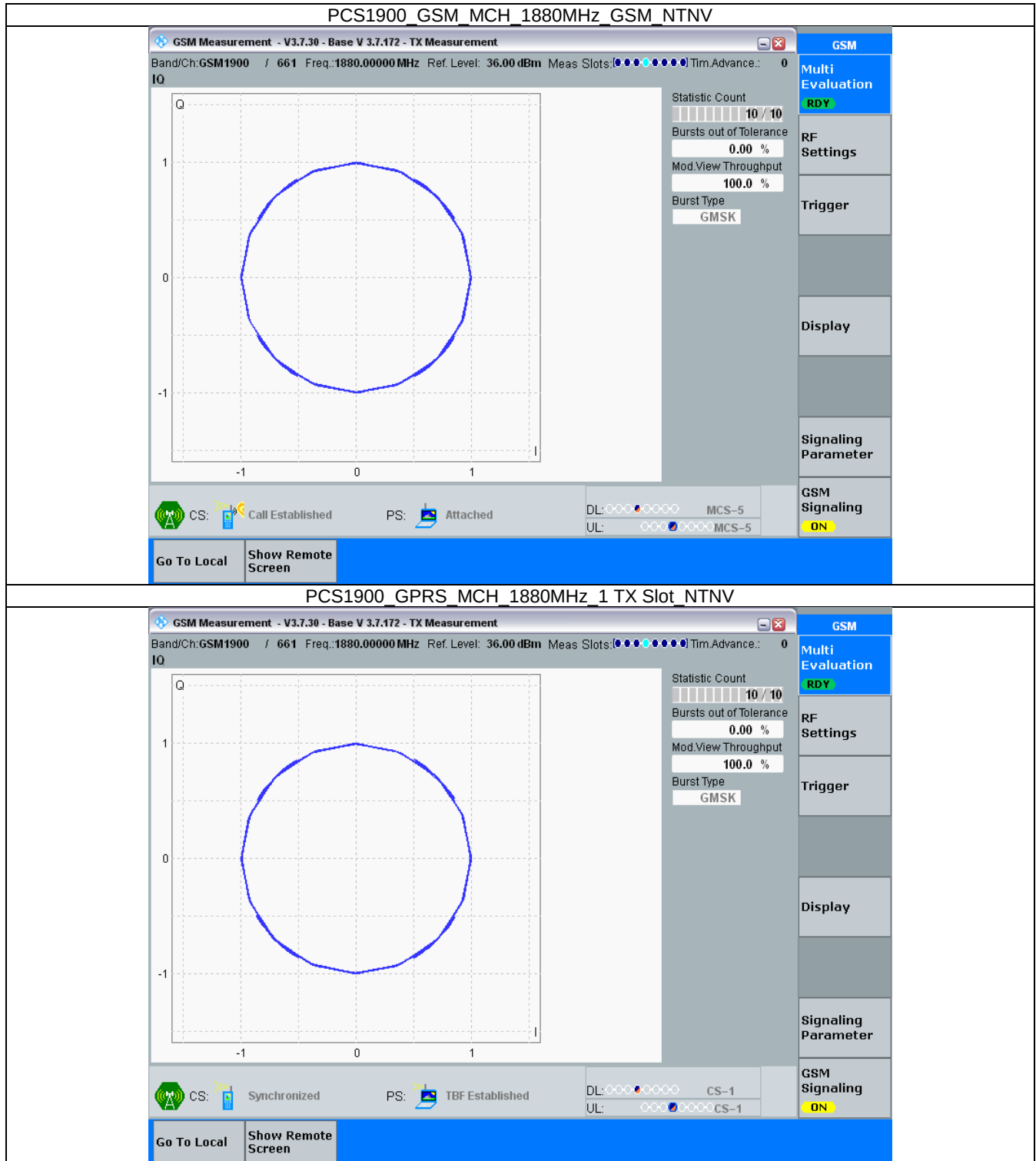
3. Modulation Characteristics

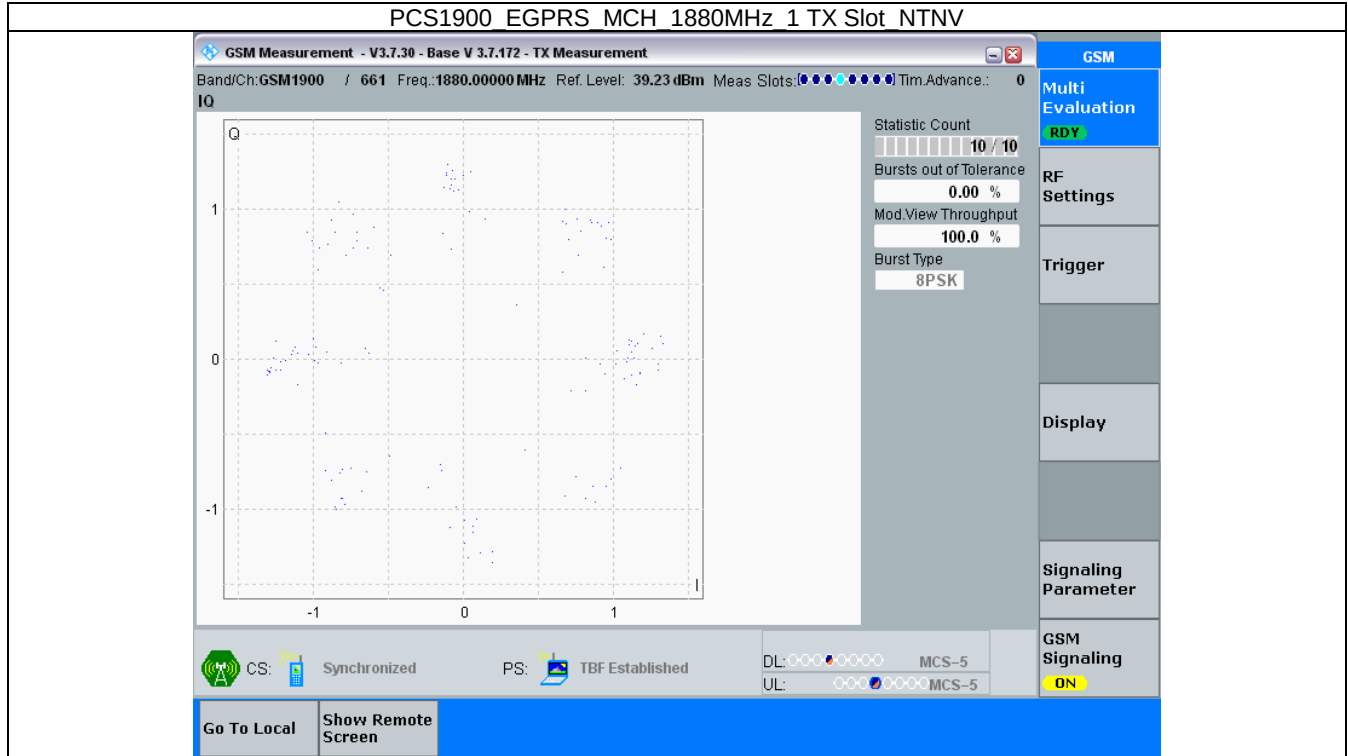
3.1 PCS1900

3.1.1 Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	Modulation Characteristics		Verdict
	Network	Subset		Result	Limit	
NTNV	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

3.1.2 Test Graph





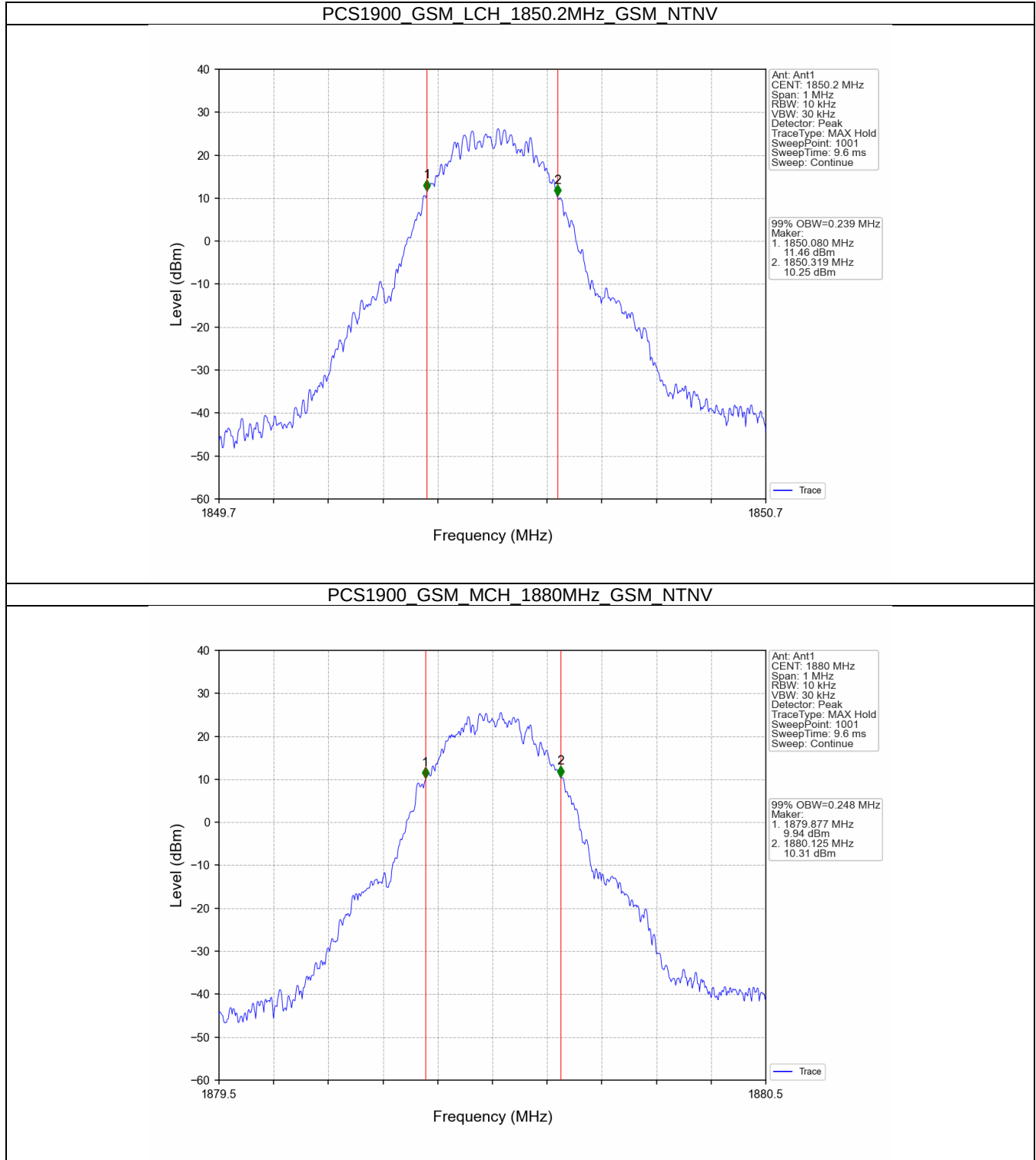
4. 99% & 26dB Bandwidth

4.1 PCS1900_OBW

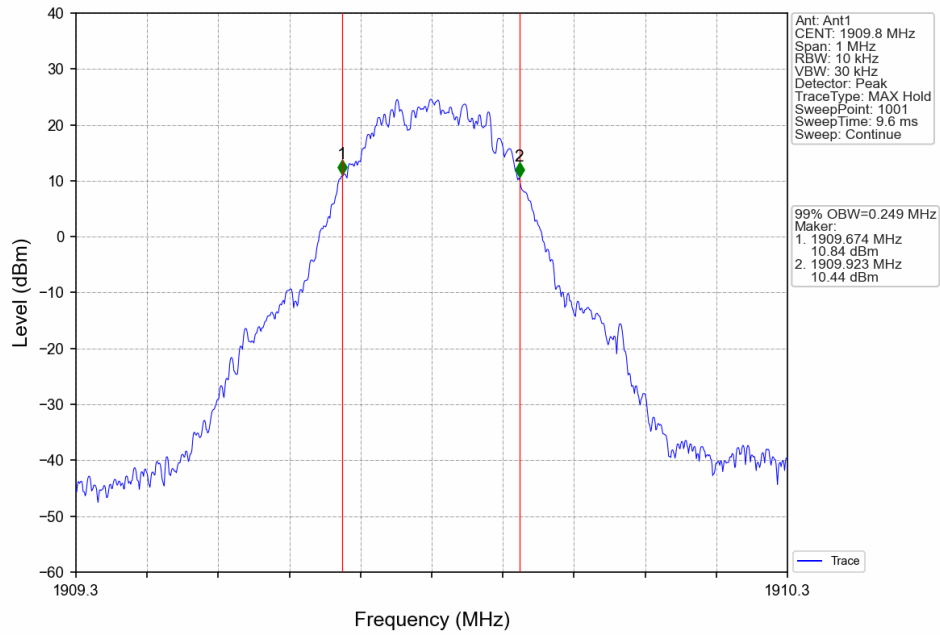
4.1.1 Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	0.239	/	Pass
			1880	0.248	/	Pass
			1909.8	0.249	/	Pass
	GPRS	1 TX Slot	1850.2	0.249	/	Pass
			1880	0.248	/	Pass
			1909.8	0.246	/	Pass
	EGPRS	1 TX Slot	1850.2	0.278	/	Pass
			1880	0.293	/	Pass
			1909.8	0.285	/	Pass

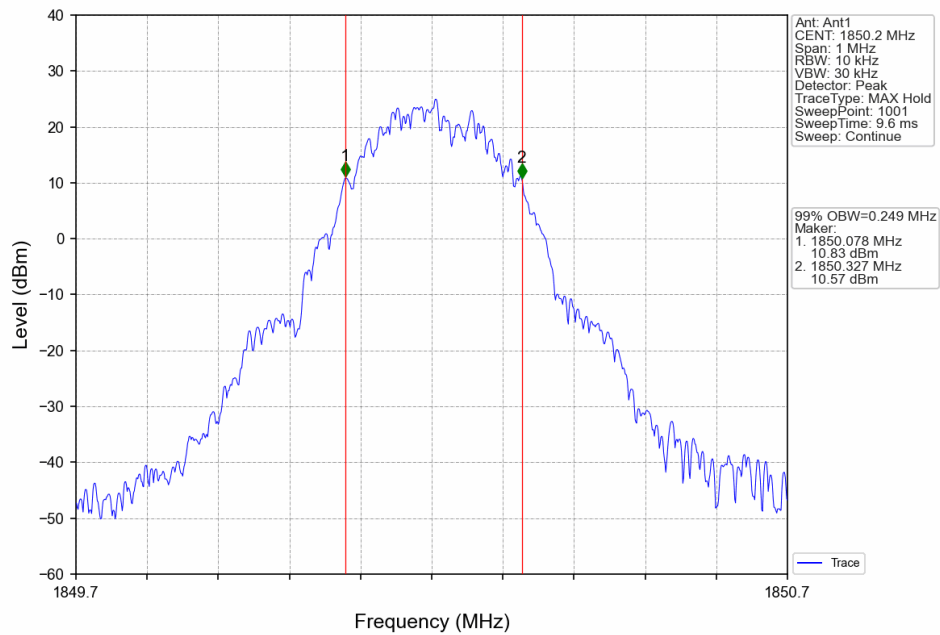
4.1.2 Test Graph



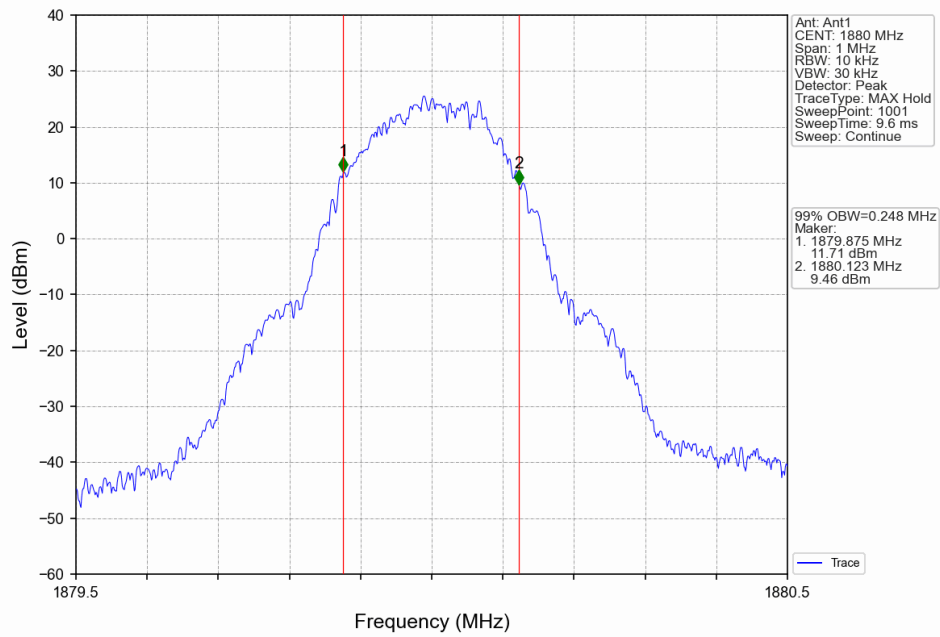
PCS1900 GSM HCH 1909.8MHz GSM NTN



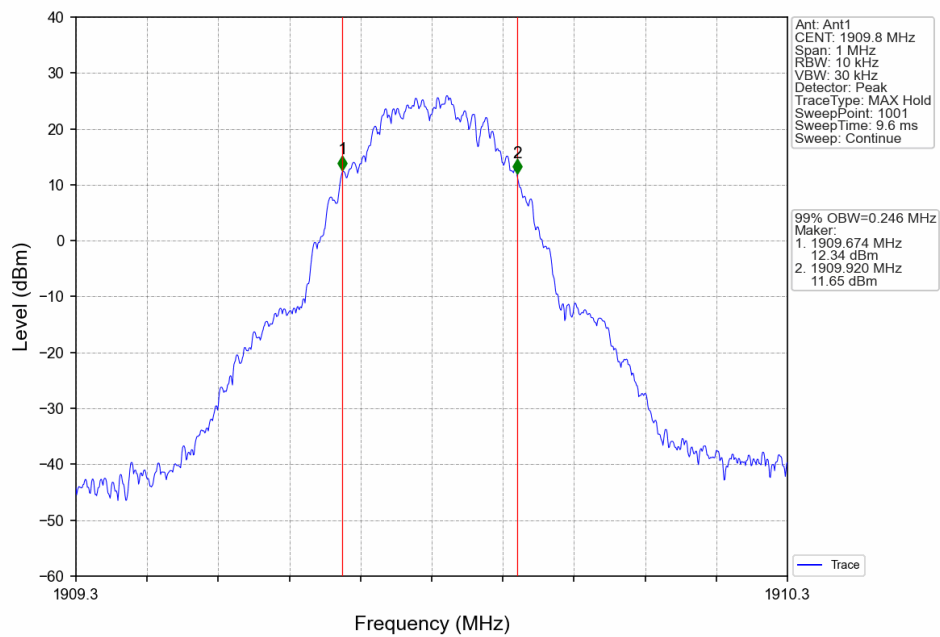
PCS1900 GPRS LCH 1850.2MHz 1 TX Slot NTN



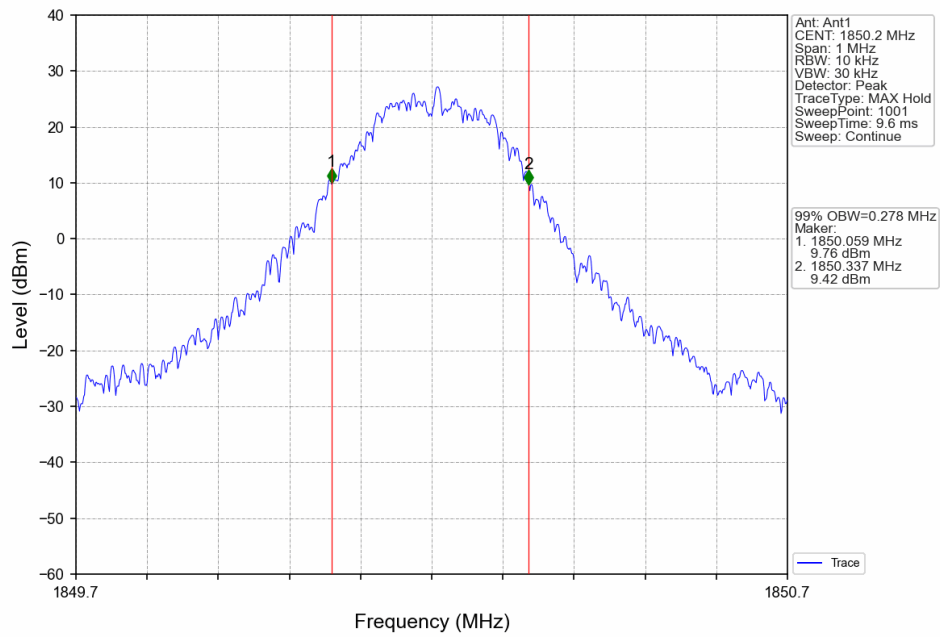
PCS1900 GPRS MCH 1880MHz 1 TX Slot NTNV



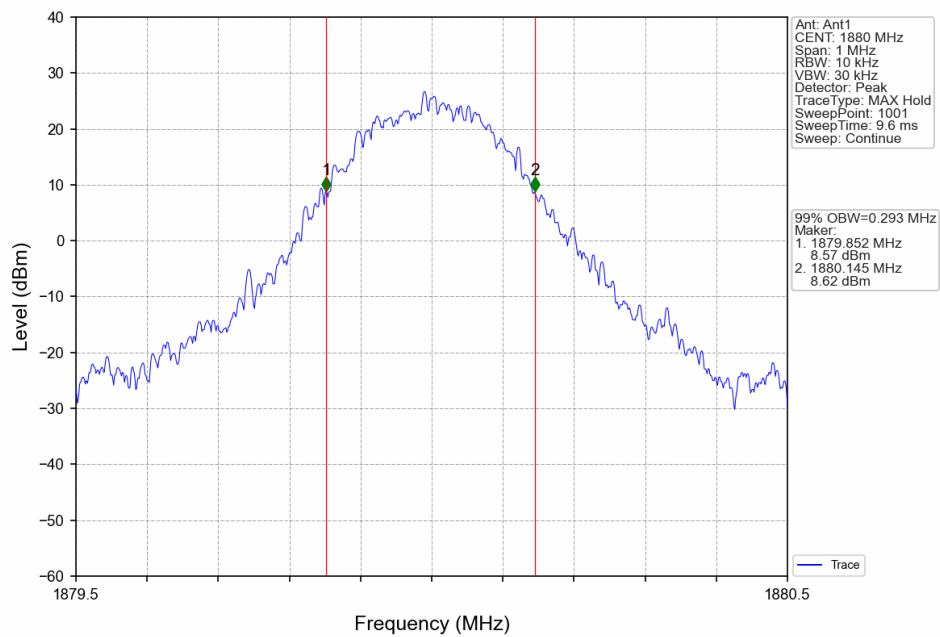
PCS1900 GPRS HCH 1909.8MHz 1 TX Slot NTNV



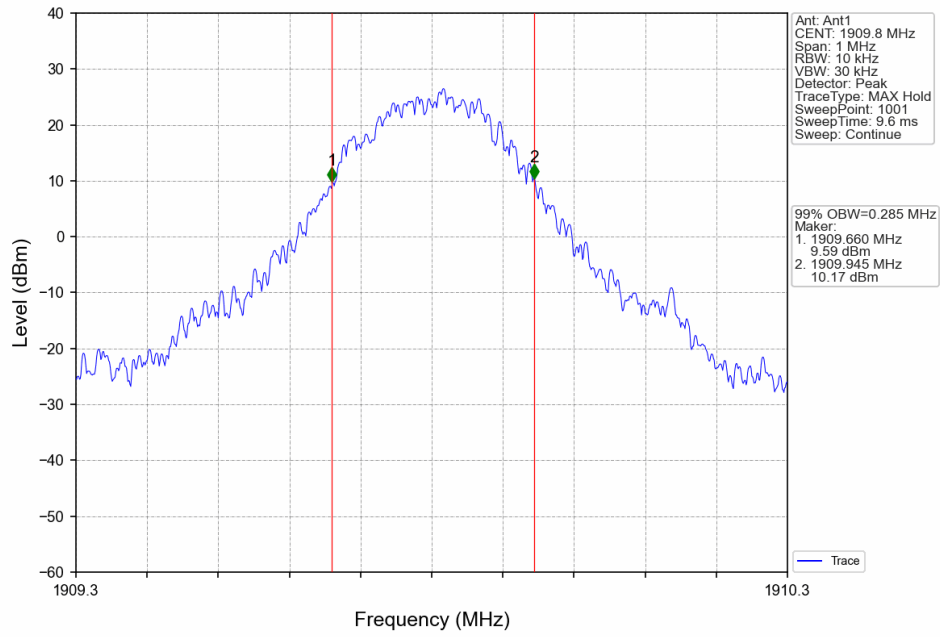
PCS1900 EGPRS LCH 1850.2MHz 1 TX Slot NTNV



PCS1900 EGPRS MCH 1880MHz 1 TX Slot NTNV



PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot NTNV

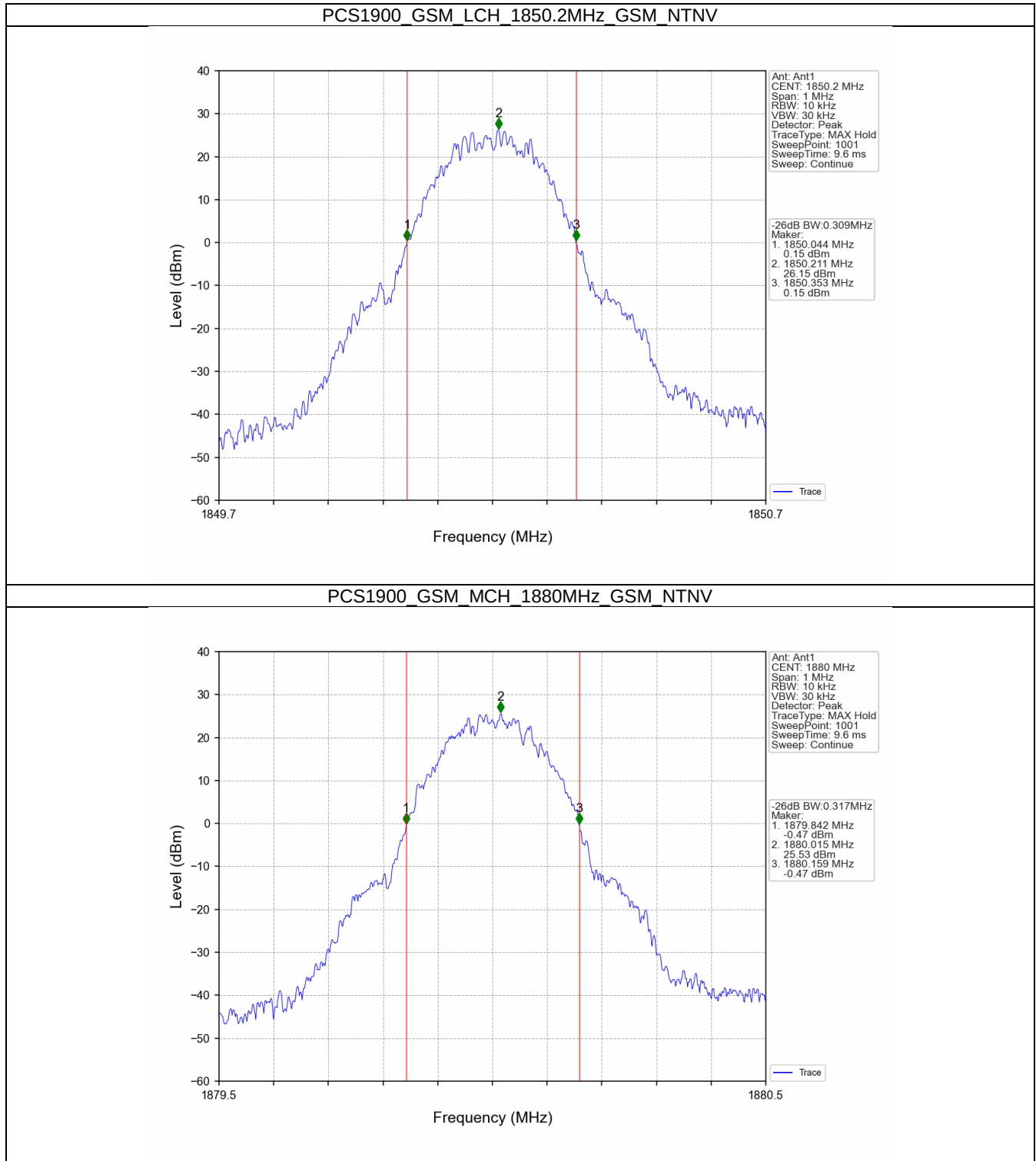


4.2 PCS1900_XDB

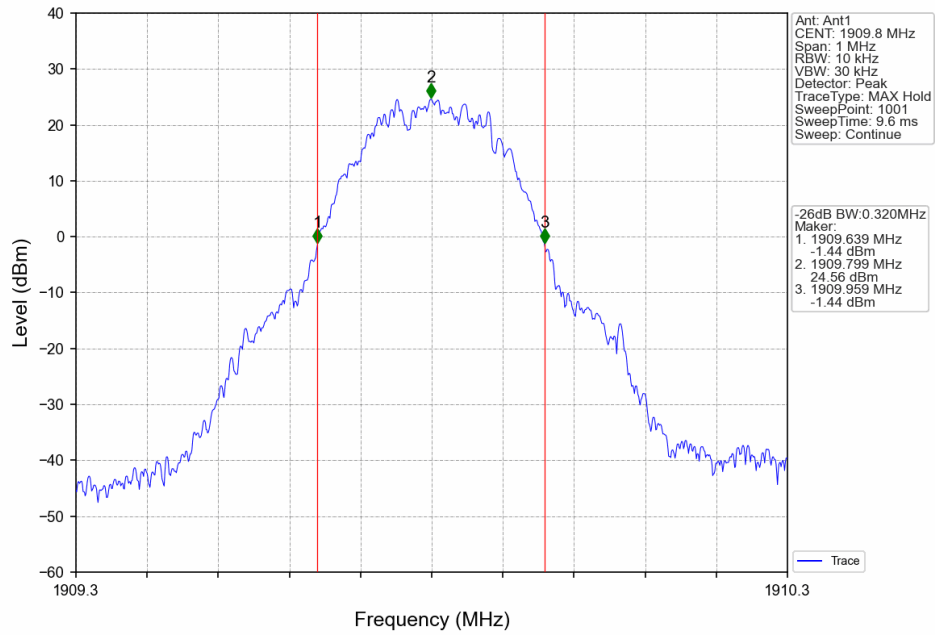
4.2.1 Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	0.309	/	Pass
			1880	0.317	/	Pass
			1909.8	0.320	/	Pass
	GPRS	1 TX Slot	1850.2	0.322	/	Pass
			1880	0.315	/	Pass
			1909.8	0.312	/	Pass
	EGPRS	1 TX Slot	1850.2	0.372	/	Pass
			1880	0.393	/	Pass
			1909.8	0.385	/	Pass

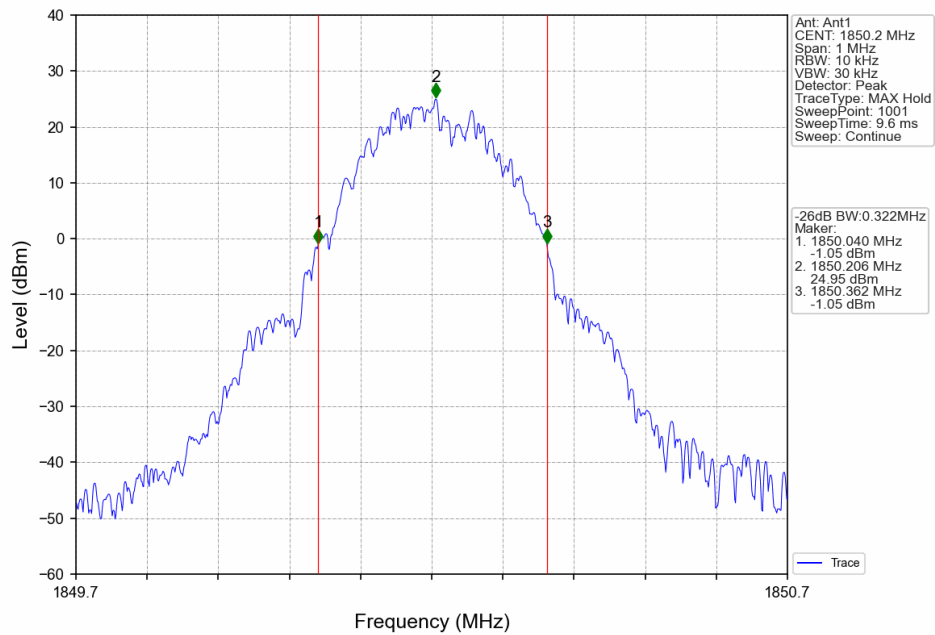
4.2.2 Test Graph



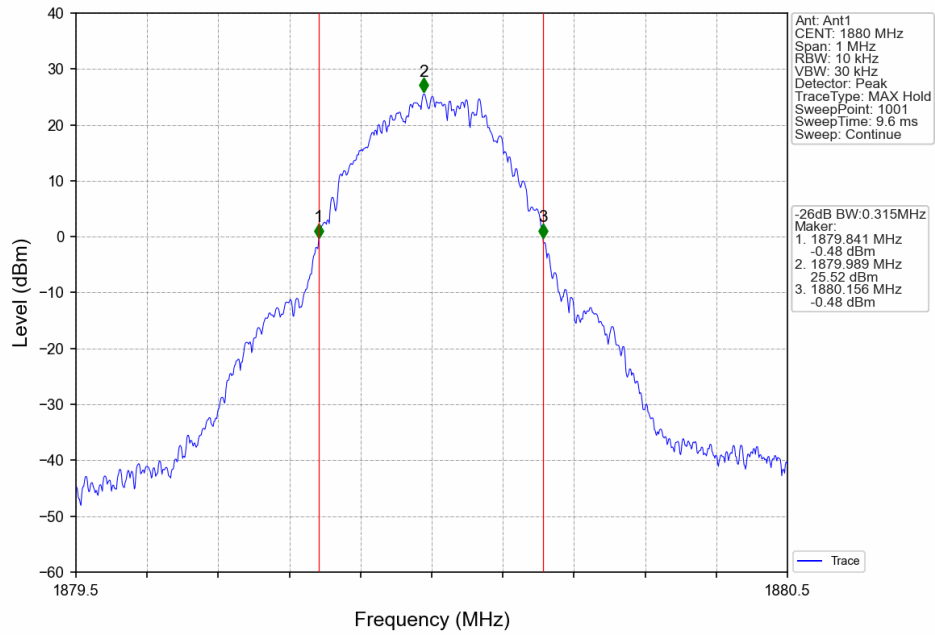
PCS1900 GSM HCH 1909.8MHz GSM NTN



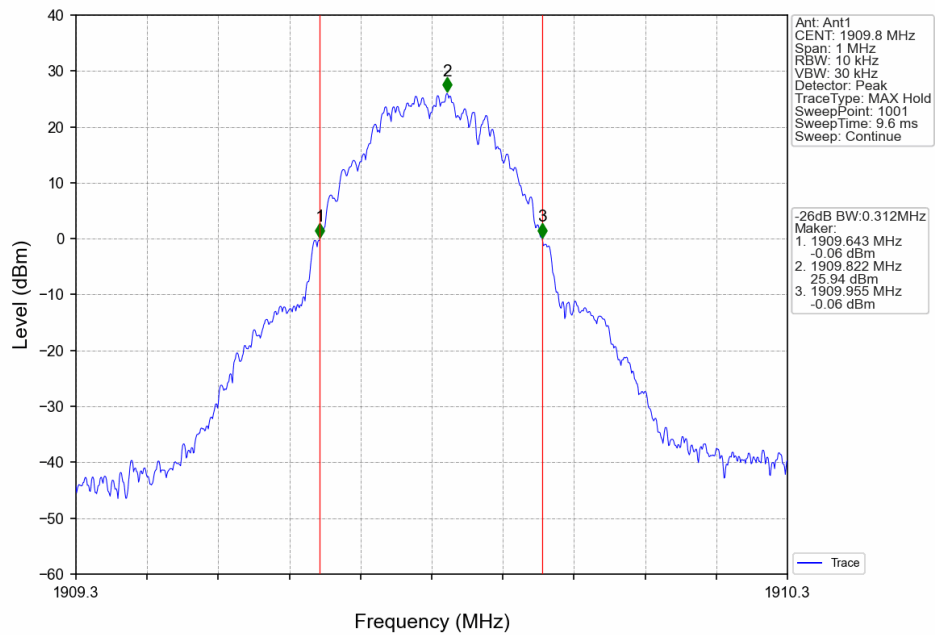
PCS1900 GPRS LCH 1850.2MHz 1 TX Slot NTN



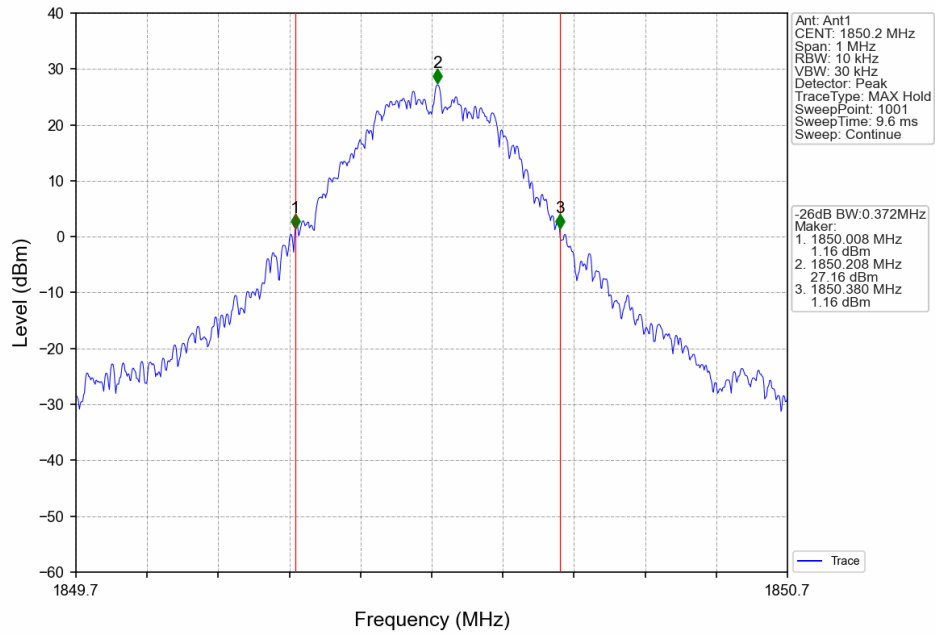
PCS1900 GPRS MCH 1880MHz 1 TX Slot NTNV



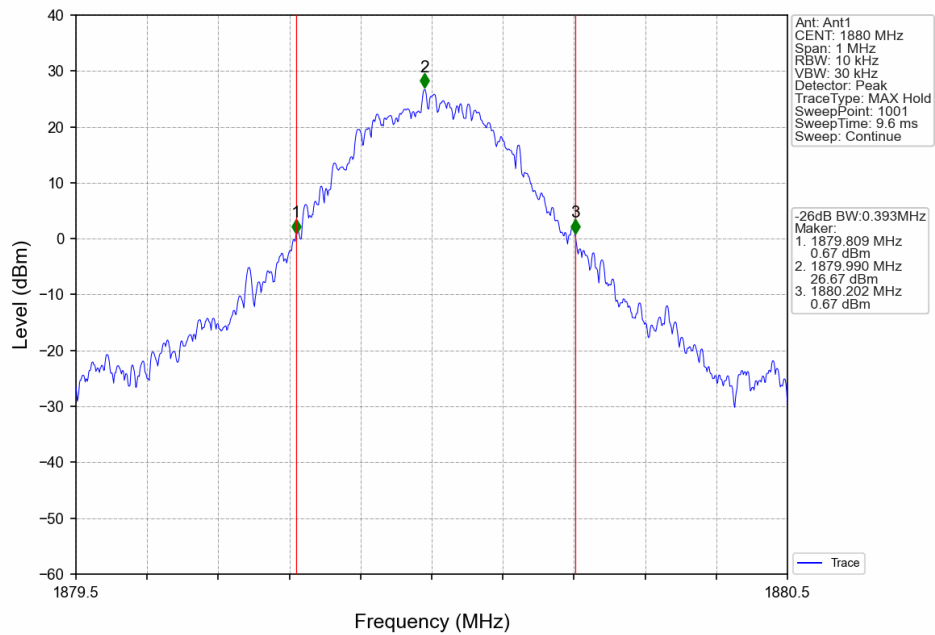
PCS1900 GPRS HCH 1909.8MHz 1 TX Slot NTNV



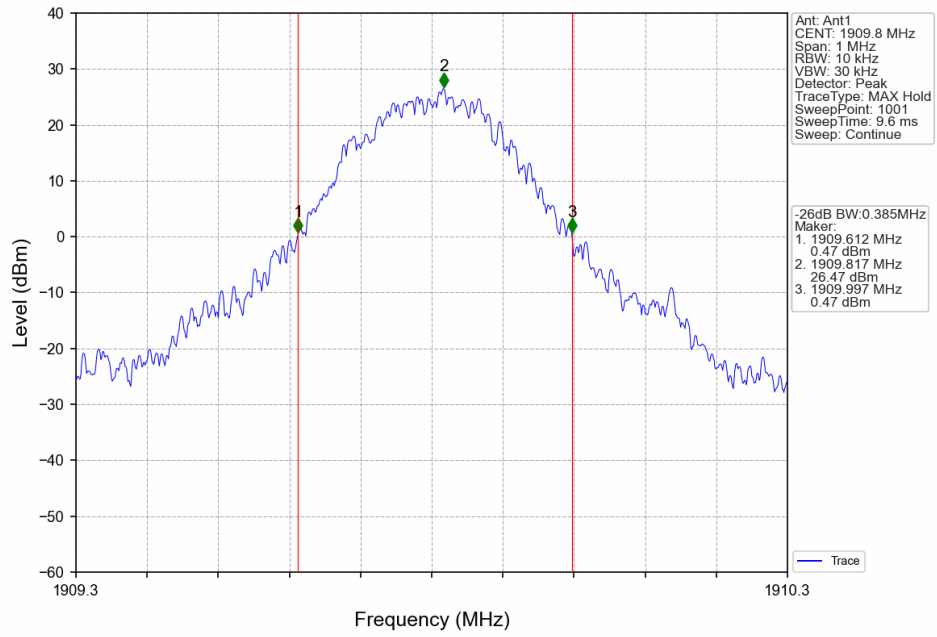
PCS1900 EGPRS LCH 1850.2MHz 1 TX Slot NTNV



PCS1900 EGPRS MCH 1880MHz 1 TX Slot NTNV



PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot NTNV



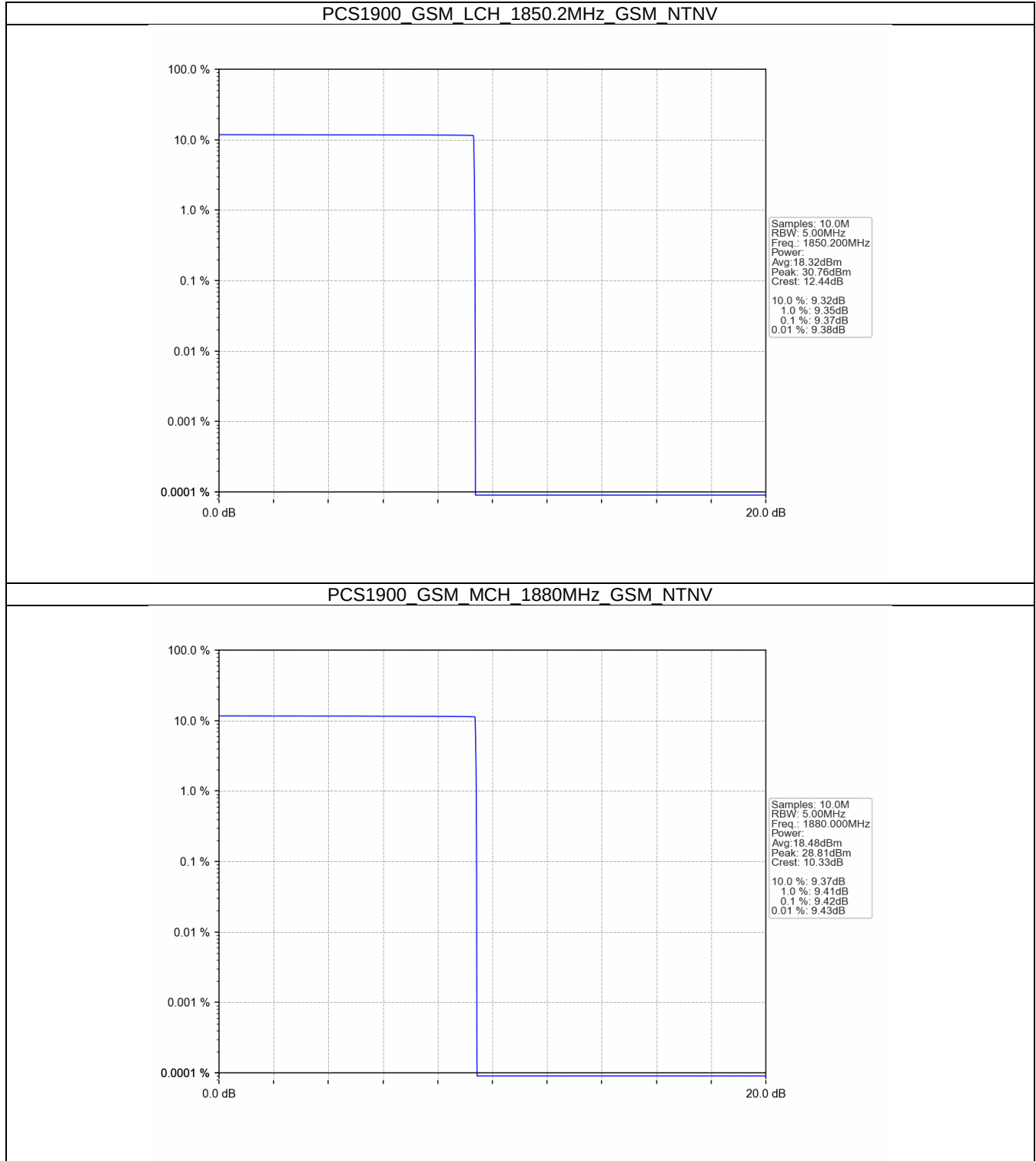
5. Peak-Average Ratio

5.1 PCS1900

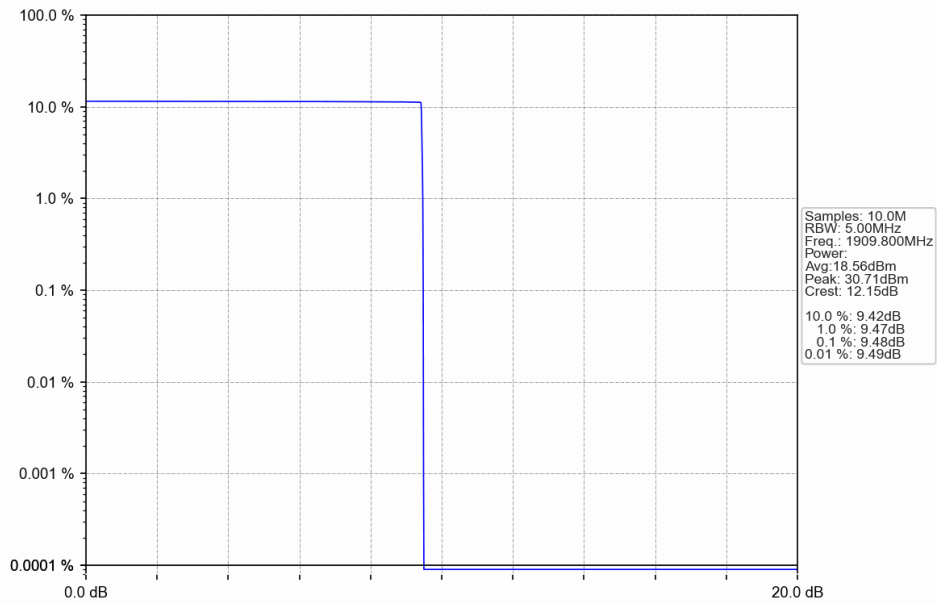
5.1.1 Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	9.37	<=13	Pass
			1880	9.42	<=13	Pass
			1909.8	9.48	<=13	Pass
	GPRS	4 TX Slots	1850.2	3.50	<=13	Pass
			1880	3.55	<=13	Pass
			1909.8	3.52	<=13	Pass
	EGPRS	4 TX Slots	1850.2	6.19	<=13	Pass
			1880	5.95	<=13	Pass
			1909.8	6.04	<=13	Pass

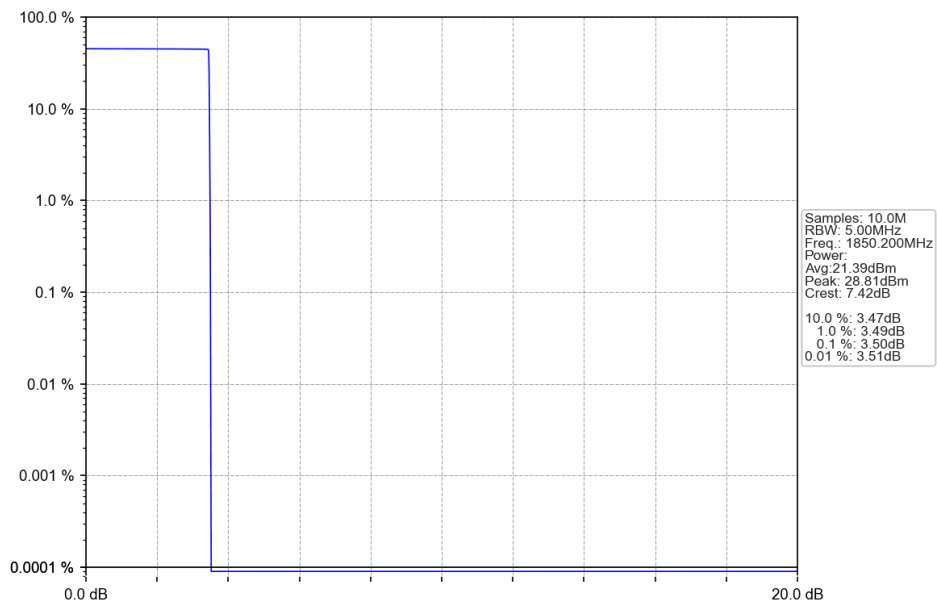
5.1.2 Test Graph



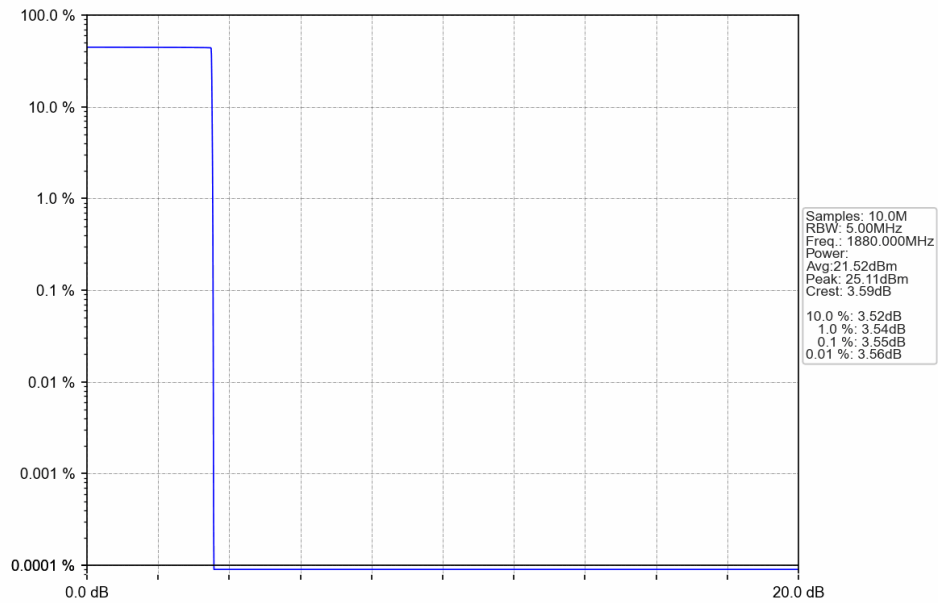
PCS1900 GSM HCH 1909.8MHz GSM NTN



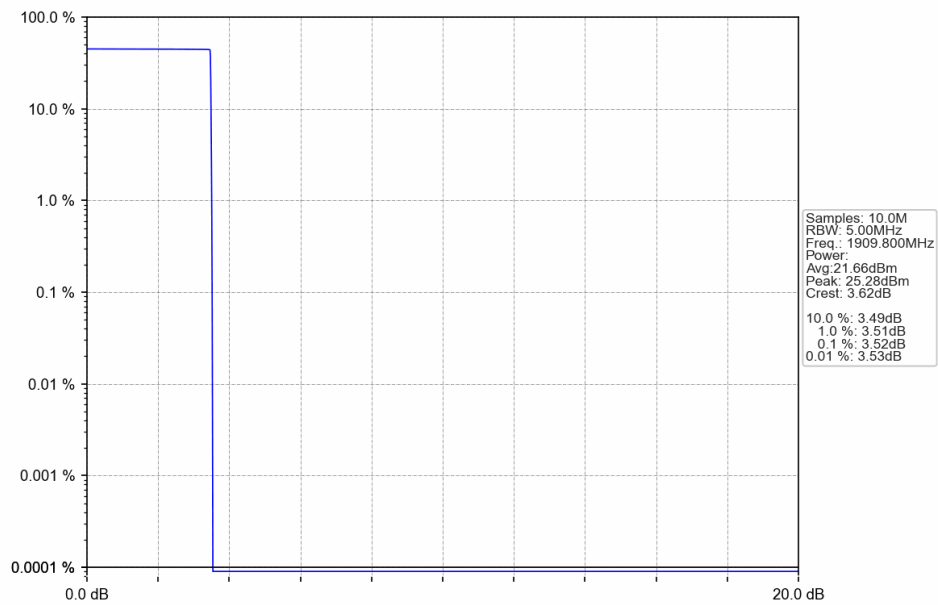
PCS1900 GPRS LCH 1850.2MHz 4 TX Slots NTN



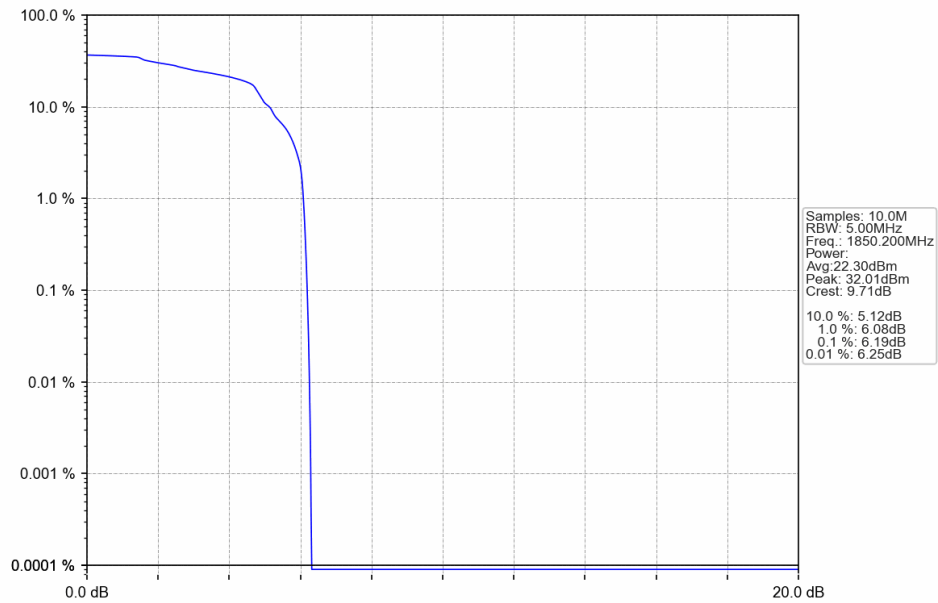
PCS1900 GPRS MCH 1880MHz 4 TX Slots NTNV



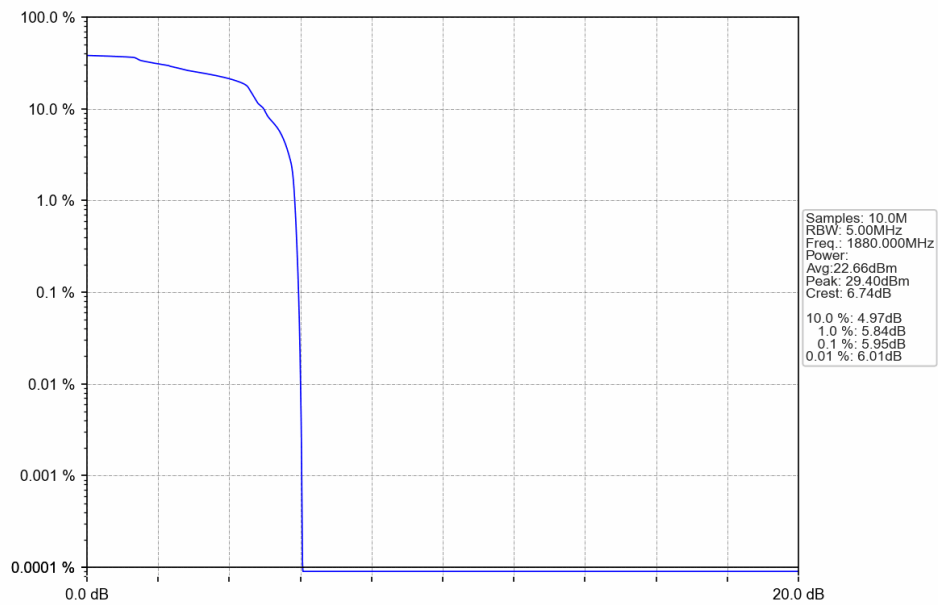
PCS1900 GPRS HCH 1909.8MHz 4 TX Slots NTNV



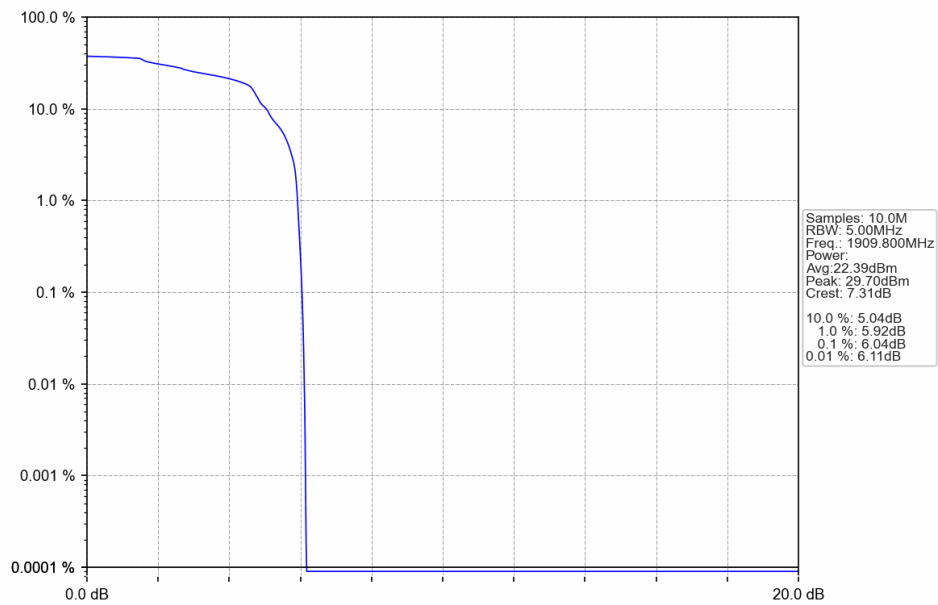
PCS1900 EGPRS LCH 1850.2MHz 4 TX Slots NTNV



PCS1900 EGPRS MCH 1880MHz 4 TX Slots NTNV



PCS1900 EGPRS HCH 1909.8MHz 4 TX Slots NTNV



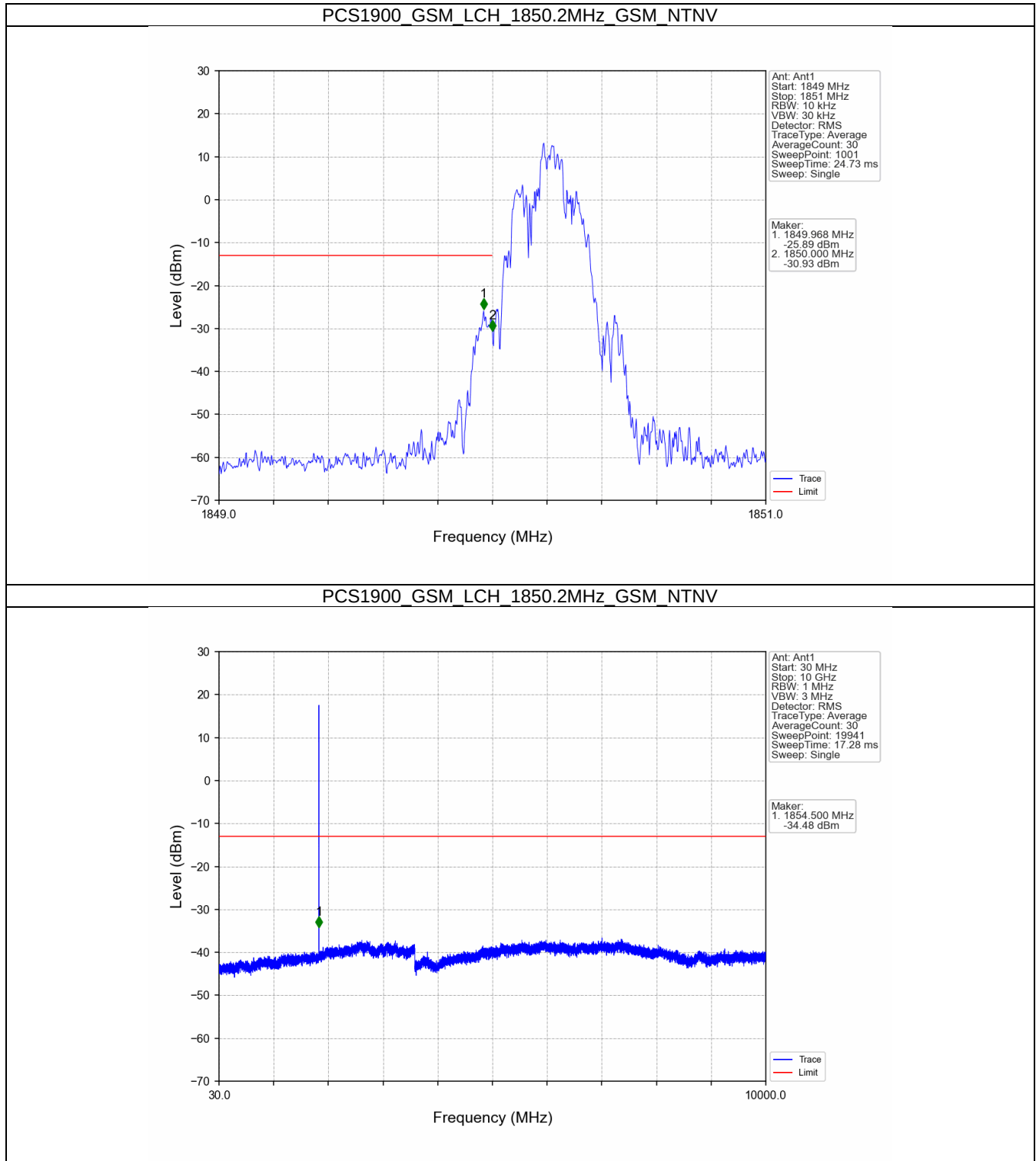
6. Spurious Emission

6.1 PCS1900

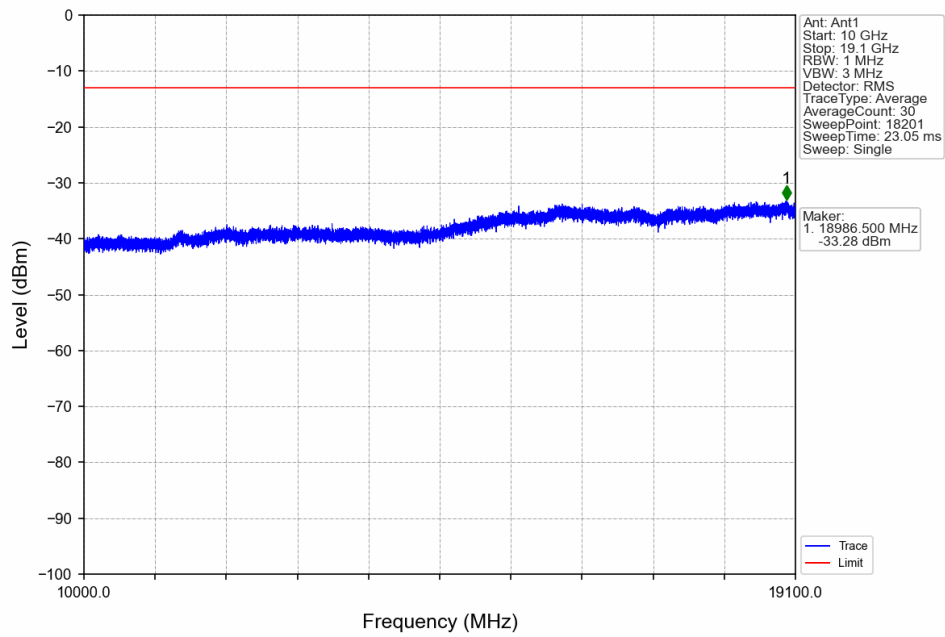
6.1.1 Test Result

Band: PCS1900					
ENV	Mode		Frequency (MHz)	Spurious Emission	
	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

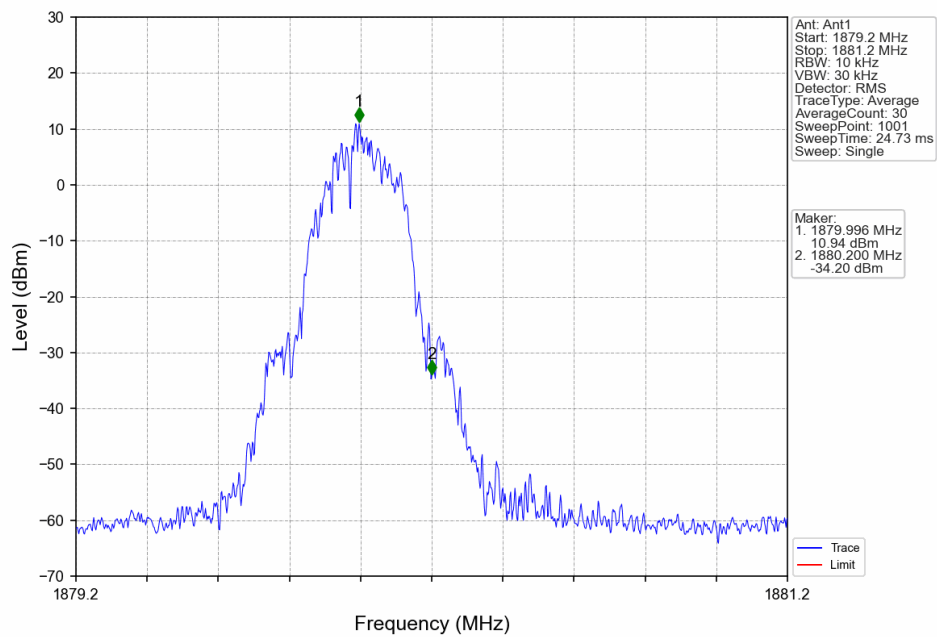
6.1.2 Test Graph



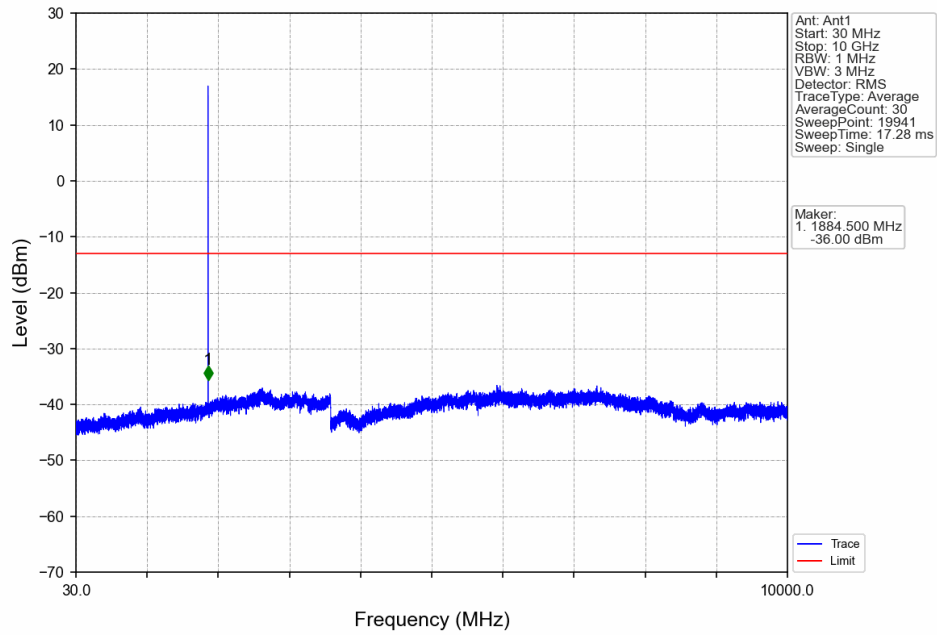
PCS1900 GSM LCH 1850.2MHz GSM NTNV



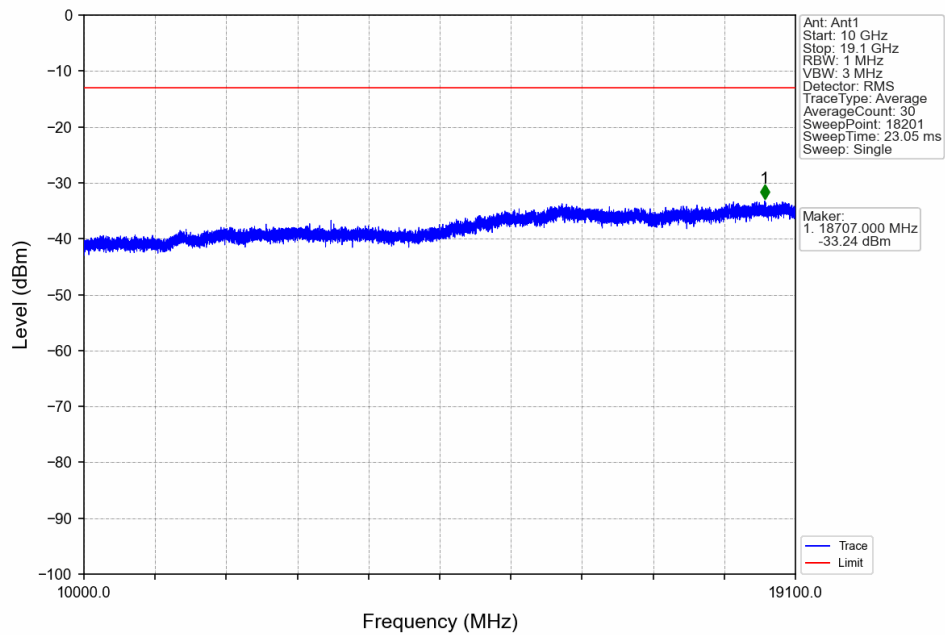
PCS1900 GSM MCH 1880MHz GSM NTNV



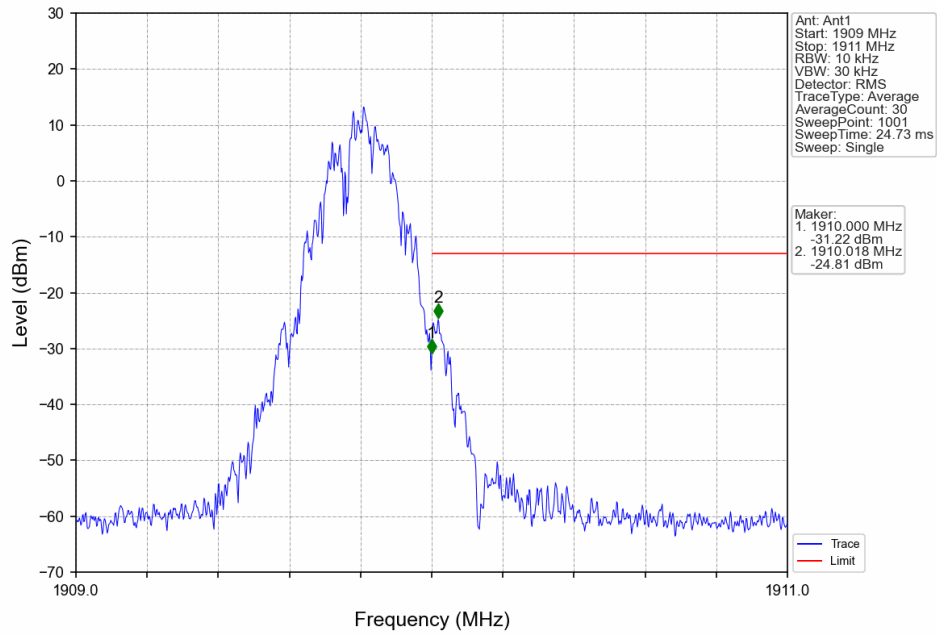
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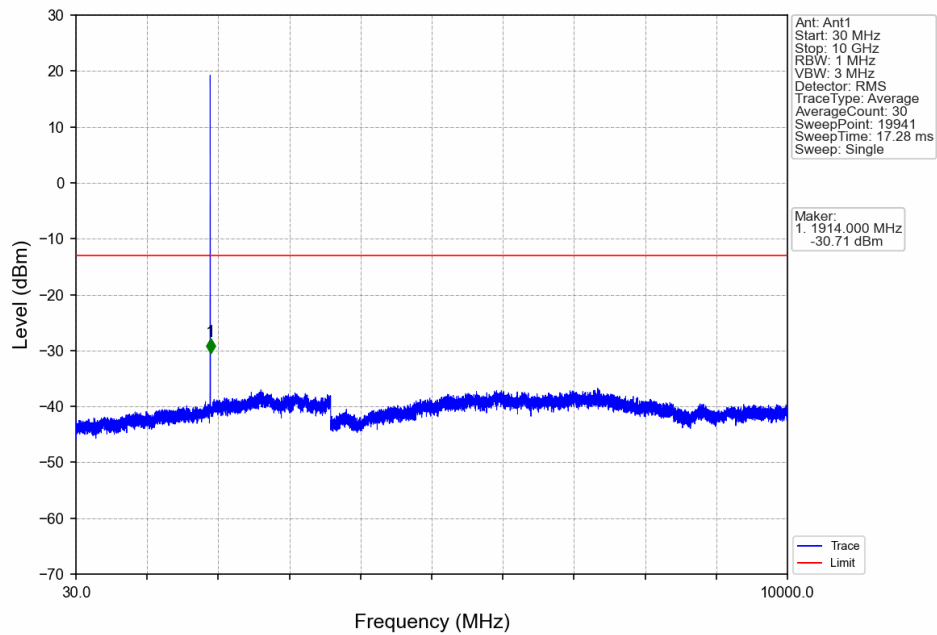
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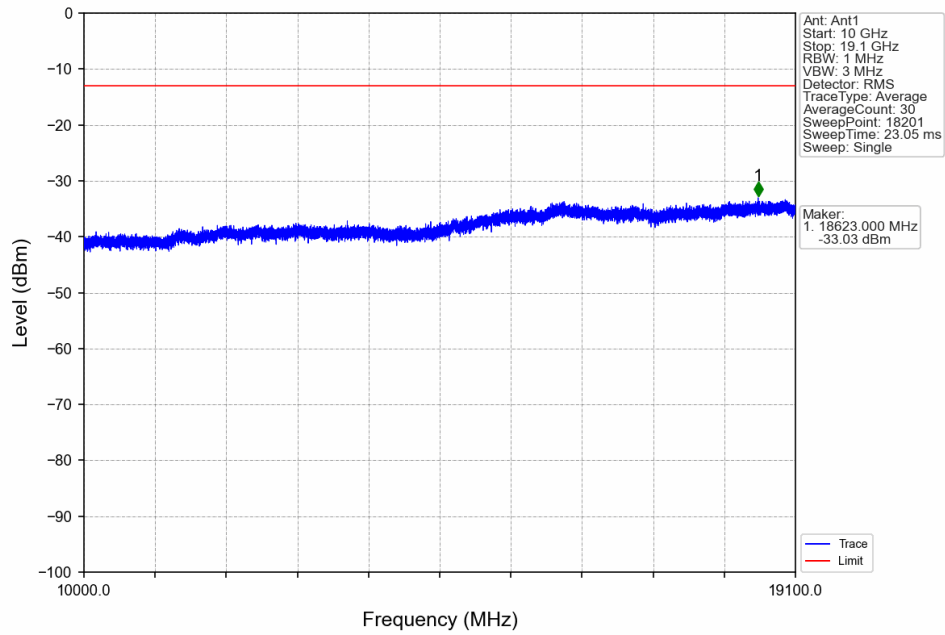
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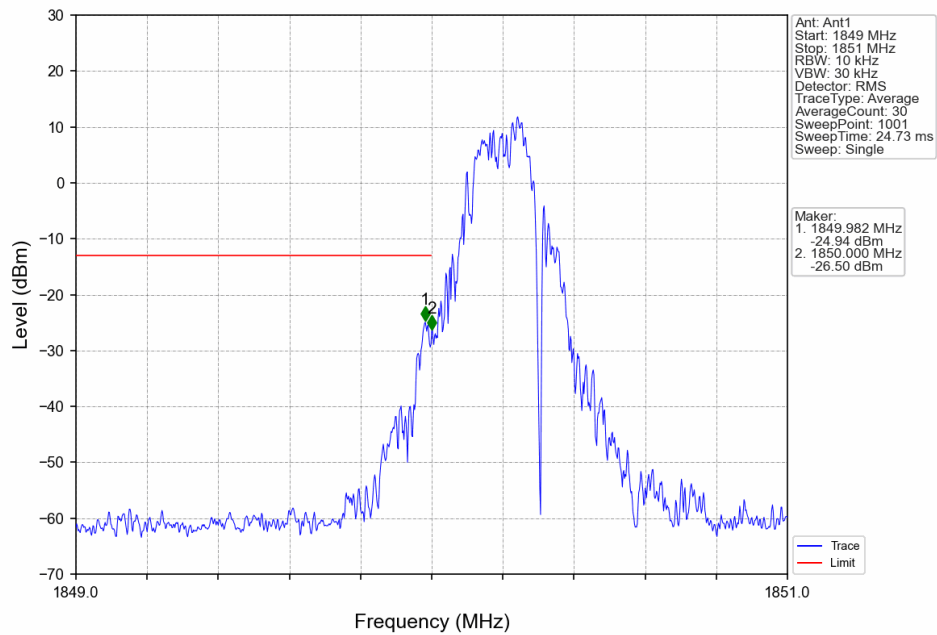
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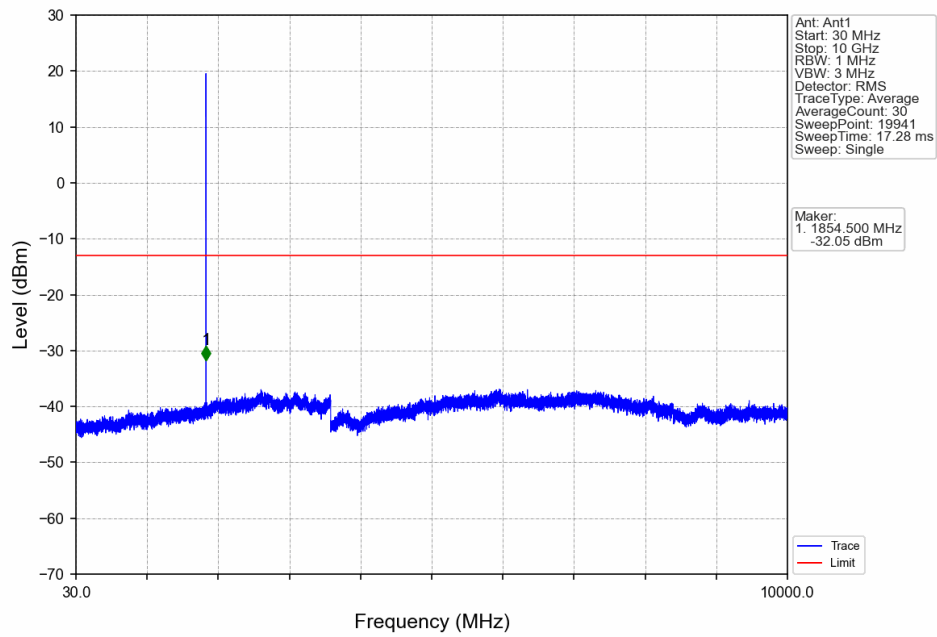
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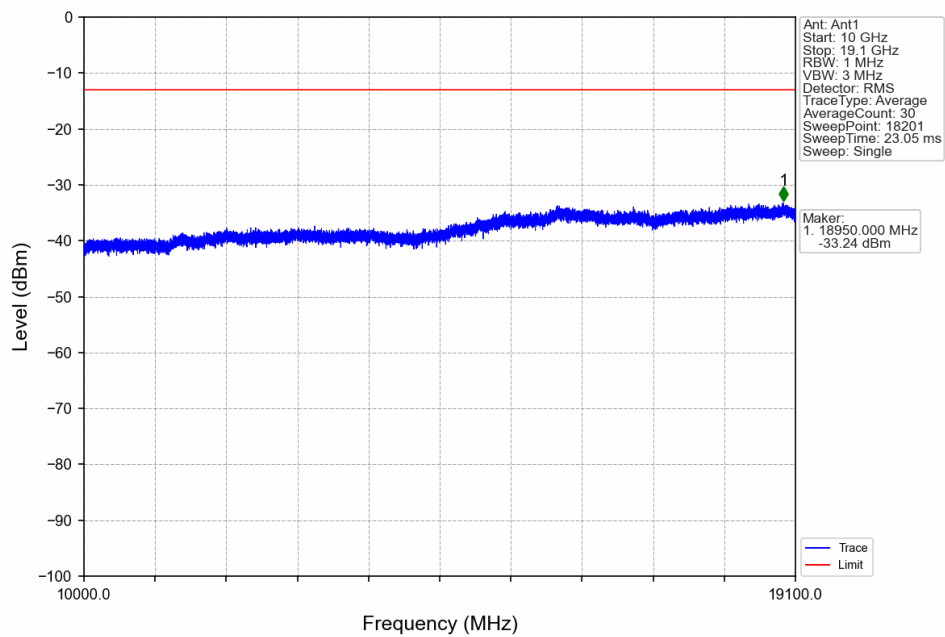
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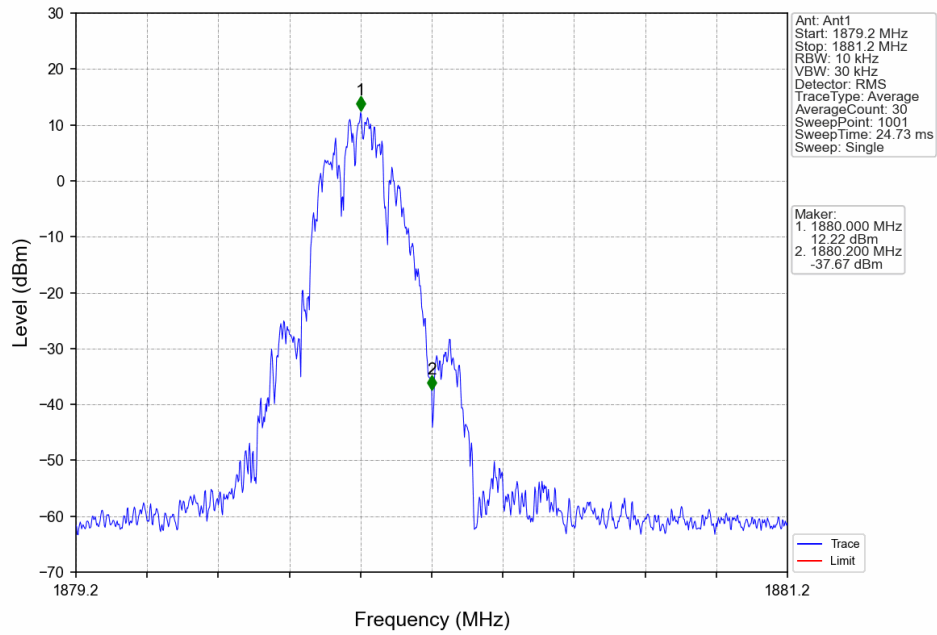
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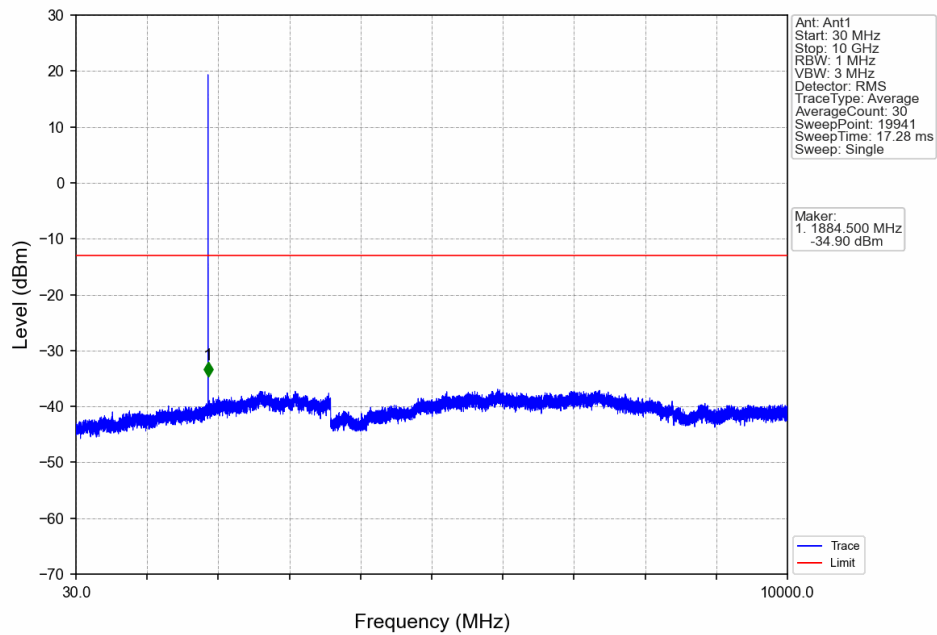
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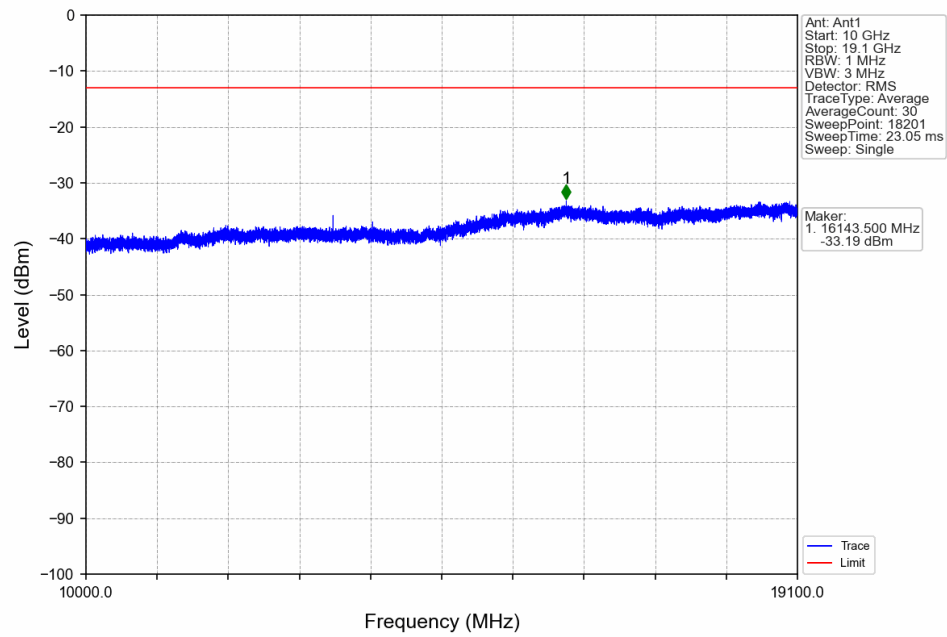
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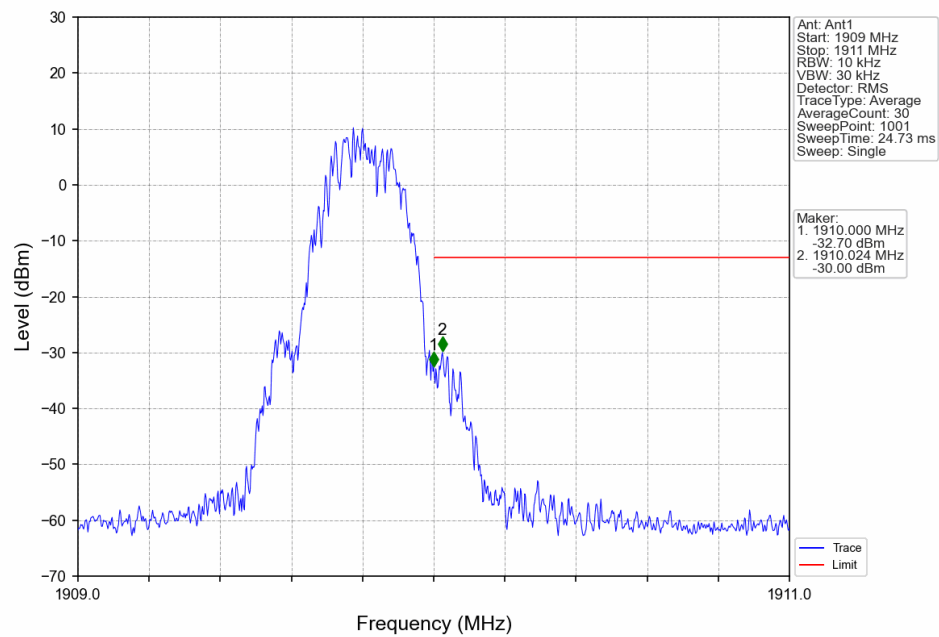
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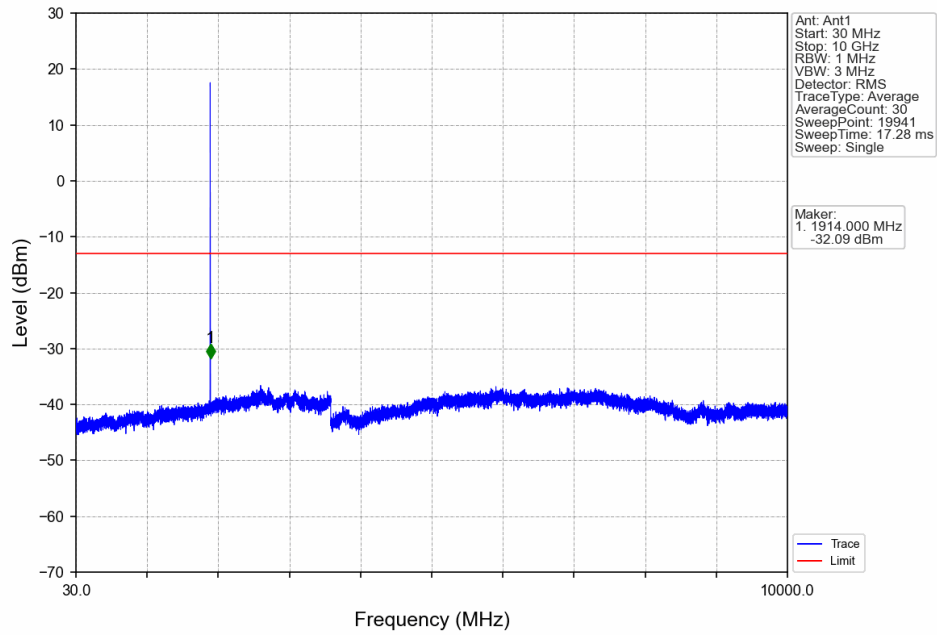
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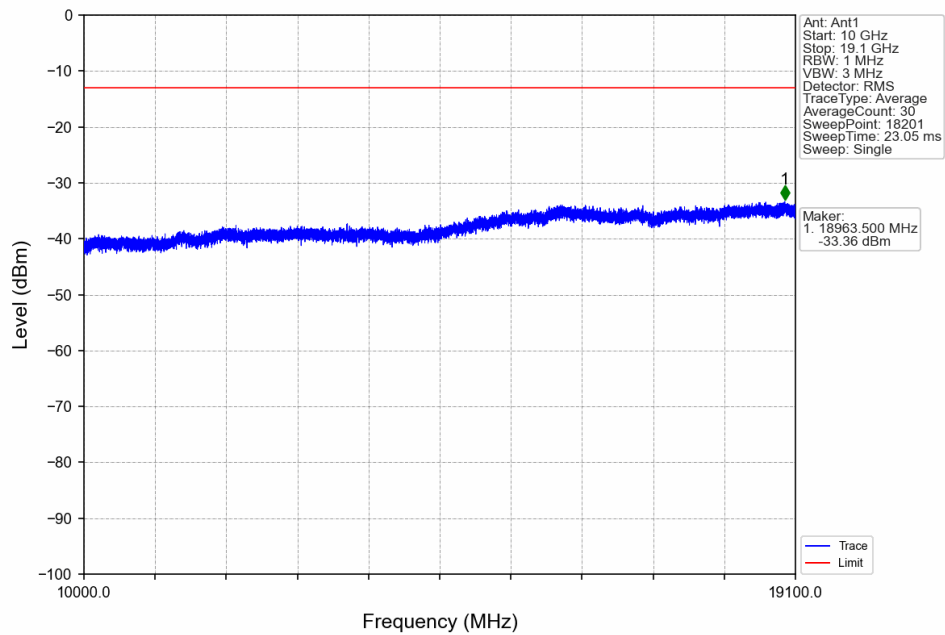
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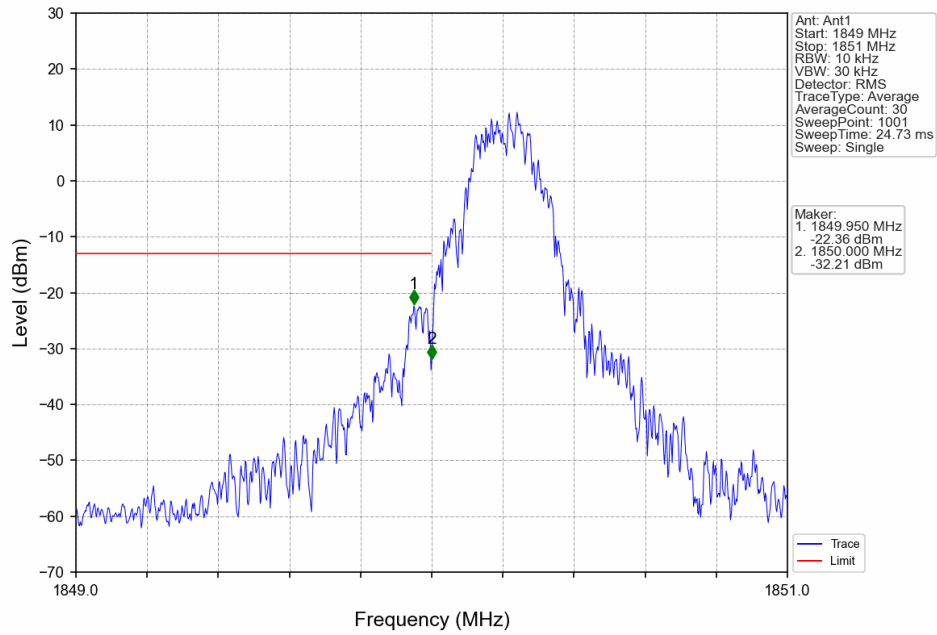
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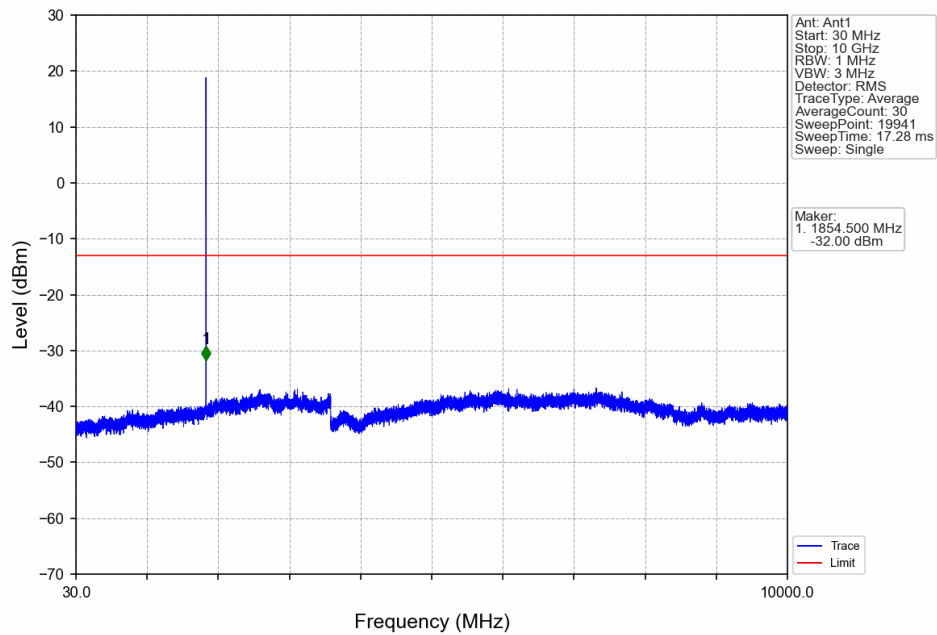
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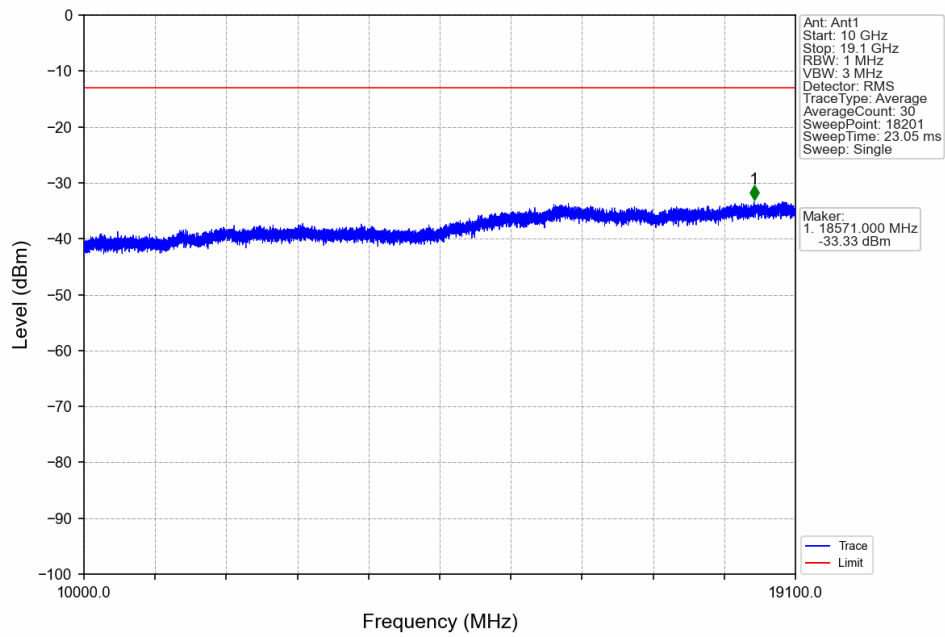
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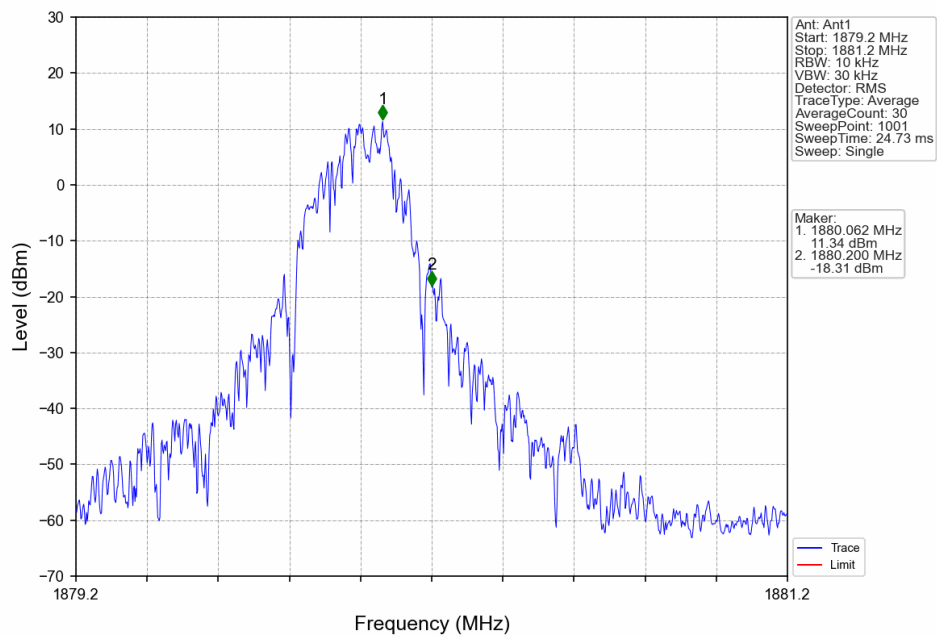
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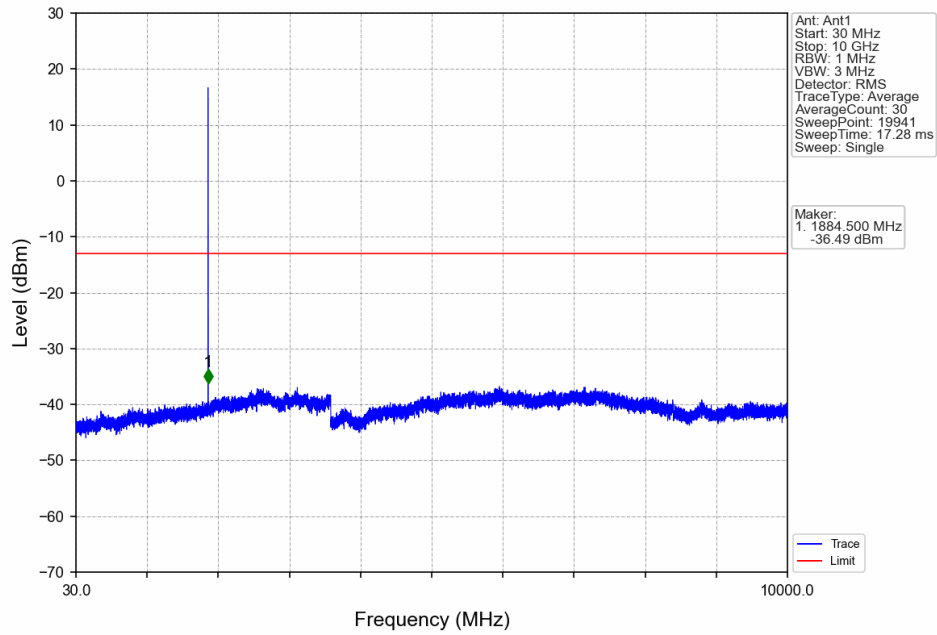
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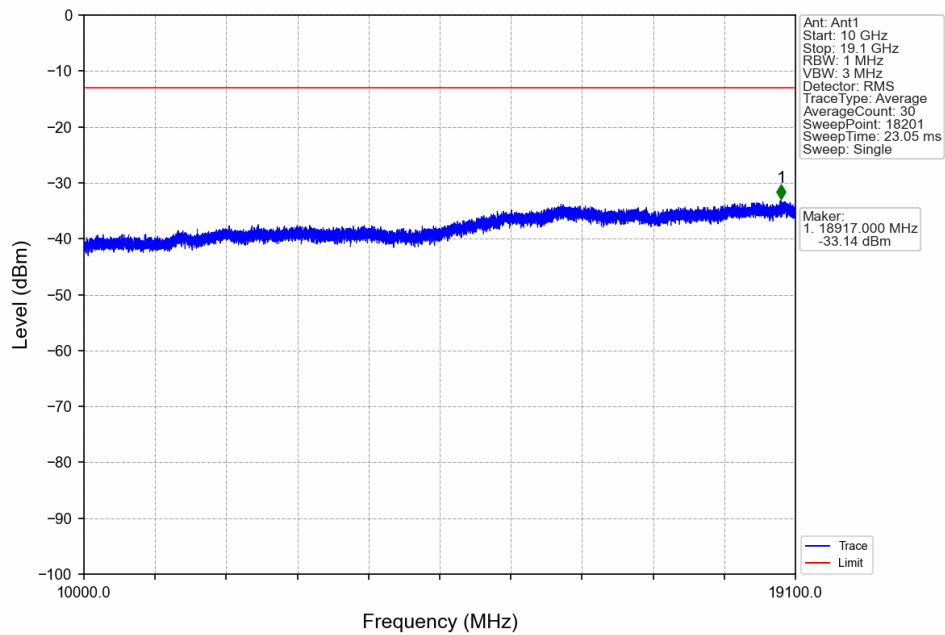
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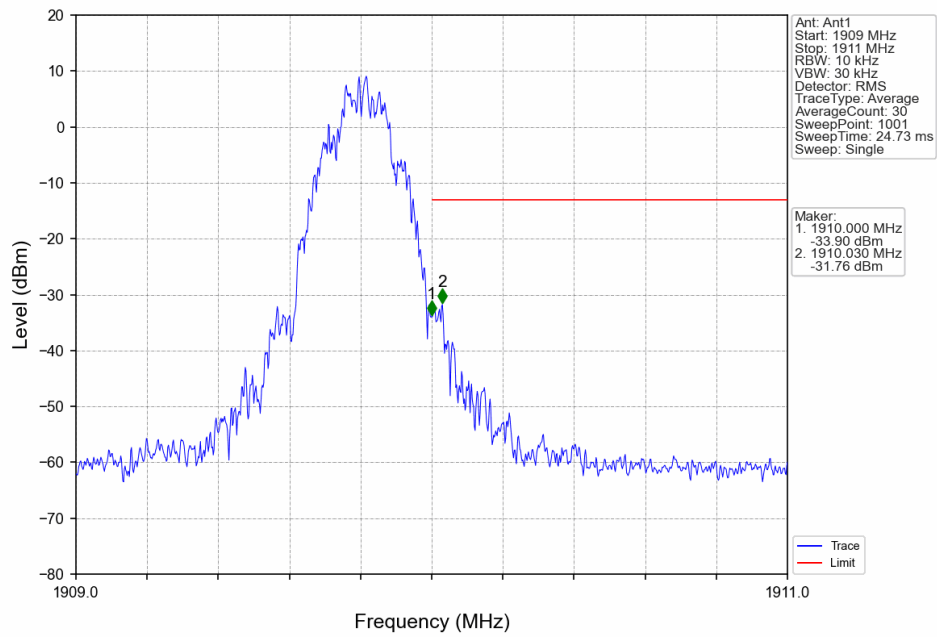
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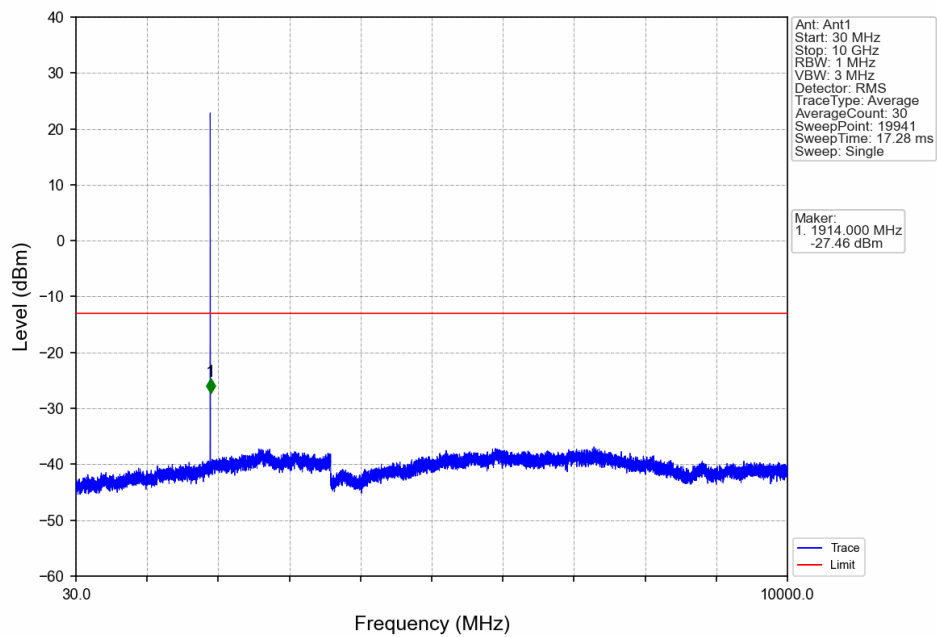
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