

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	25.57	0.54	26.11	<=33.01	Pass
			1880	25.56	0.54	26.10	<=33.01	Pass
			1909.8	25.11	0.54	25.65	<=33.01	Pass
	GPRS	1 TX Slot	1850.2	25.65	0.54	26.19	<=33.01	Pass
		2 TX Slots	1850.2	24.20	0.54	24.74	<=33.01	Pass
		3 TX Slots	1850.2	23.27	0.54	23.81	<=33.01	Pass
		4 TX Slots	1850.2	21.45	0.54	21.99	<=33.01	Pass
		1 TX Slot	1880	25.58	0.54	26.12	<=33.01	Pass
		2 TX Slots	1880	24.05	0.54	24.59	<=33.01	Pass
		3 TX Slots	1880	22.97	0.54	23.51	<=33.01	Pass
		4 TX Slots	1880	20.99	0.54	21.53	<=33.01	Pass
		1 TX Slot	1909.8	25.09	0.54	25.63	<=33.01	Pass
		2 TX Slots	1909.8	22.74	0.54	23.28	<=33.01	Pass
		3 TX Slots	1909.8	21.19	0.54	21.73	<=33.01	Pass
		4 TX Slots	1909.8	18.73	0.54	19.27	<=33.01	Pass
	EGPRS	1 TX Slot	1850.2	27.82	0.54	28.36	<=33.01	Pass
		2 TX Slots	1850.2	24.95	0.54	25.49	<=33.01	Pass
		3 TX Slots	1850.2	23.10	0.54	23.64	<=33.01	Pass
		4 TX Slots	1850.2	19.96	0.54	20.50	<=33.01	Pass
		1 TX Slot	1880	28.35	0.54	28.89	<=33.01	Pass
		2 TX Slots	1880	26.35	0.54	26.89	<=33.01	Pass
		3 TX Slots	1880	24.42	0.54	24.96	<=33.01	Pass
		4 TX Slots	1880	21.30	0.54	21.84	<=33.01	Pass
		1 TX Slot	1909.8	28.11	0.54	28.65	<=33.01	Pass
		2 TX Slots	1909.8	25.99	0.54	26.53	<=33.01	Pass
		3 TX Slots	1909.8	24.33	0.54	24.87	<=33.01	Pass
		4 TX Slots	1909.8	21.20	0.54	21.74	<=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	20.728	0.0112	-2.5 to 2.5	Pass
			3.85	21.341	0.0115	-2.5 to 2.5	Pass
			4.43	23.084	0.0125	-2.5 to 2.5	Pass
		-30	3.85	24.957	0.0135	-2.5 to 2.5	Pass
		-20	3.85	24.150	0.0131	-2.5 to 2.5	Pass
		-10	3.85	28.605	0.0155	-2.5 to 2.5	Pass

		0	3.85	18.984	0.0103	-2.5 to 2.5	Pass
		10	3.85	23.278	0.0126	-2.5 to 2.5	Pass
		30	3.85	21.890	0.0118	-2.5 to 2.5	Pass
		40	3.85	27.798	0.0150	-2.5 to 2.5	Pass
		50	3.85	26.539	0.0143	-2.5 to 2.5	Pass
	1880	20	3.27	31.672	0.0168	-2.5 to 2.5	Pass
			3.85	30.865	0.0164	-2.5 to 2.5	Pass
			4.43	28.799	0.0153	-2.5 to 2.5	Pass
		-30	3.85	25.280	0.0134	-2.5 to 2.5	Pass
		-20	3.85	26.022	0.0138	-2.5 to 2.5	Pass
		-10	3.85	27.023	0.0144	-2.5 to 2.5	Pass
		0	3.85	24.376	0.0130	-2.5 to 2.5	Pass
		10	3.85	23.892	0.0127	-2.5 to 2.5	Pass
		30	3.85	25.409	0.0135	-2.5 to 2.5	Pass
		40	3.85	25.861	0.0138	-2.5 to 2.5	Pass
		50	3.85	27.185	0.0145	-2.5 to 2.5	Pass
	1909.8	20	3.27	25.280	0.0132	-2.5 to 2.5	Pass
			3.85	28.121	0.0147	-2.5 to 2.5	Pass
			4.43	24.118	0.0126	-2.5 to 2.5	Pass
		-30	3.85	30.123	0.0158	-2.5 to 2.5	Pass
		-20	3.85	29.154	0.0153	-2.5 to 2.5	Pass
		-10	3.85	27.443	0.0144	-2.5 to 2.5	Pass
		0	3.85	25.312	0.0133	-2.5 to 2.5	Pass
		10	3.85	20.598	0.0108	-2.5 to 2.5	Pass
		30	3.85	26.668	0.0140	-2.5 to 2.5	Pass
		40	3.85	25.667	0.0134	-2.5 to 2.5	Pass
		50	3.85	30.026	0.0157	-2.5 to 2.5	Pass
GPRS	1850.2	20	3.27	19.533	0.0106	-2.5 to 2.5	Pass
			3.85	21.535	0.0116	-2.5 to 2.5	Pass
			4.43	24.699	0.0133	-2.5 to 2.5	Pass
		-30	3.85	22.084	0.0119	-2.5 to 2.5	Pass
		-20	3.85	25.441	0.0138	-2.5 to 2.5	Pass
		-10	3.85	20.437	0.0110	-2.5 to 2.5	Pass
		0	3.85	22.277	0.0120	-2.5 to 2.5	Pass
		10	3.85	22.084	0.0119	-2.5 to 2.5	Pass
		30	3.85	15.207	0.0082	-2.5 to 2.5	Pass
		40	3.85	23.343	0.0126	-2.5 to 2.5	Pass
		50	3.85	20.663	0.0112	-2.5 to 2.5	Pass
	1880	20	3.27	20.631	0.0110	-2.5 to 2.5	Pass
			3.85	23.827	0.0127	-2.5 to 2.5	Pass
			4.43	18.952	0.0101	-2.5 to 2.5	Pass
		-30	3.85	20.211	0.0108	-2.5 to 2.5	Pass
		-20	3.85	20.405	0.0109	-2.5 to 2.5	Pass
		-10	3.85	22.374	0.0119	-2.5 to 2.5	Pass
		0	3.85	24.311	0.0129	-2.5 to 2.5	Pass
		10	3.85	24.505	0.0130	-2.5 to 2.5	Pass
		30	3.85	25.990	0.0138	-2.5 to 2.5	Pass
		40	3.85	23.536	0.0125	-2.5 to 2.5	Pass
		50	3.85	20.954	0.0111	-2.5 to 2.5	Pass
	1909.8	20	3.27	23.730	0.0124	-2.5 to 2.5	Pass
			3.85	19.307	0.0101	-2.5 to 2.5	Pass
			4.43	20.146	0.0105	-2.5 to 2.5	Pass
		-30	3.85	17.241	0.0090	-2.5 to 2.5	Pass
		-20	3.85	21.276	0.0111	-2.5 to 2.5	Pass
		-10	3.85	20.469	0.0107	-2.5 to 2.5	Pass
		0	3.85	20.889	0.0109	-2.5 to 2.5	Pass
		10	3.85	21.761	0.0114	-2.5 to 2.5	Pass
		30	3.85	21.922	0.0115	-2.5 to 2.5	Pass
		40	3.85	21.825	0.0114	-2.5 to 2.5	Pass

EGPRS	1850.2	50	3.85	21.406	0.0112	-2.5 to 2.5	Pass
		20	3.27	31.350	0.0169	-2.5 to 2.5	Pass
			3.85	32.286	0.0175	-2.5 to 2.5	Pass
			4.43	28.993	0.0157	-2.5 to 2.5	Pass
		-30	3.85	24.311	0.0131	-2.5 to 2.5	Pass
		-20	3.85	34.320	0.0185	-2.5 to 2.5	Pass
		-10	3.85	27.152	0.0147	-2.5 to 2.5	Pass
		0	3.85	24.311	0.0131	-2.5 to 2.5	Pass
		10	3.85	22.116	0.0120	-2.5 to 2.5	Pass
		30	3.85	24.182	0.0131	-2.5 to 2.5	Pass
		40	3.85	25.570	0.0138	-2.5 to 2.5	Pass
		50	3.85	19.372	0.0105	-2.5 to 2.5	Pass
	1880	20	3.27	23.440	0.0125	-2.5 to 2.5	Pass
			3.85	23.472	0.0125	-2.5 to 2.5	Pass
			4.43	27.023	0.0144	-2.5 to 2.5	Pass
		-30	3.85	21.502	0.0114	-2.5 to 2.5	Pass
		-20	3.85	27.378	0.0146	-2.5 to 2.5	Pass
		-10	3.85	24.634	0.0131	-2.5 to 2.5	Pass
		0	3.85	23.859	0.0127	-2.5 to 2.5	Pass
		10	3.85	29.251	0.0156	-2.5 to 2.5	Pass
		30	3.85	29.090	0.0155	-2.5 to 2.5	Pass
		40	3.85	31.059	0.0165	-2.5 to 2.5	Pass
		50	3.85	27.604	0.0147	-2.5 to 2.5	Pass
	1909.8	20	3.27	28.089	0.0147	-2.5 to 2.5	Pass
			3.85	25.312	0.0133	-2.5 to 2.5	Pass
			4.43	26.991	0.0141	-2.5 to 2.5	Pass
		-30	3.85	21.728	0.0114	-2.5 to 2.5	Pass
		-20	3.85	20.211	0.0106	-2.5 to 2.5	Pass
		-10	3.85	25.667	0.0134	-2.5 to 2.5	Pass
		0	3.85	26.281	0.0138	-2.5 to 2.5	Pass
		10	3.85	27.120	0.0142	-2.5 to 2.5	Pass
		30	3.85	23.407	0.0123	-2.5 to 2.5	Pass
		40	3.85	31.317	0.0164	-2.5 to 2.5	Pass
		50	3.85	22.213	0.0116	-2.5 to 2.5	Pass

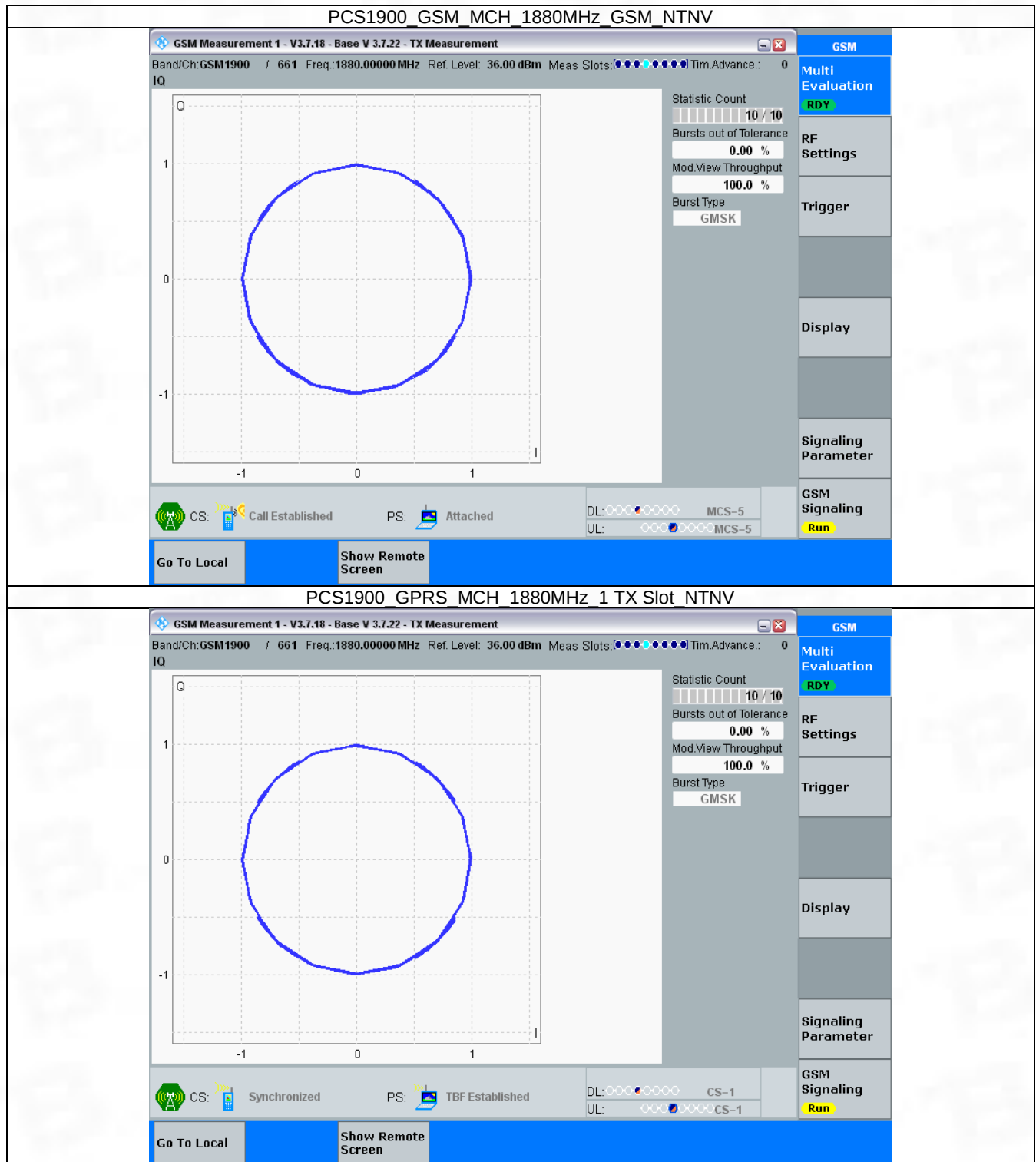
3. Modulation Characteristics

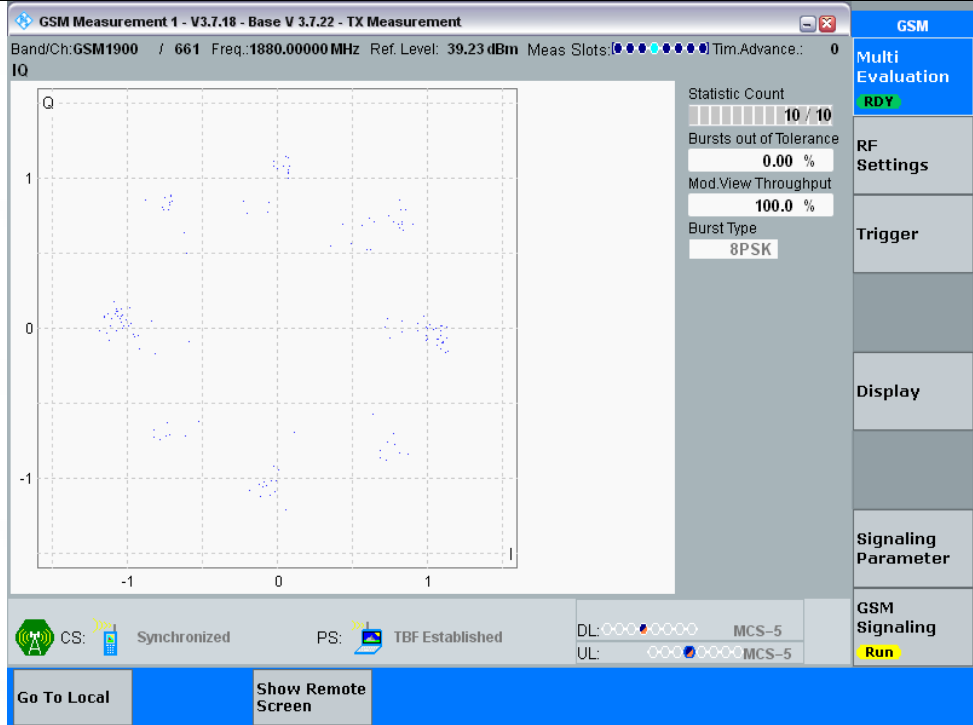
3.1 PCS1900

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





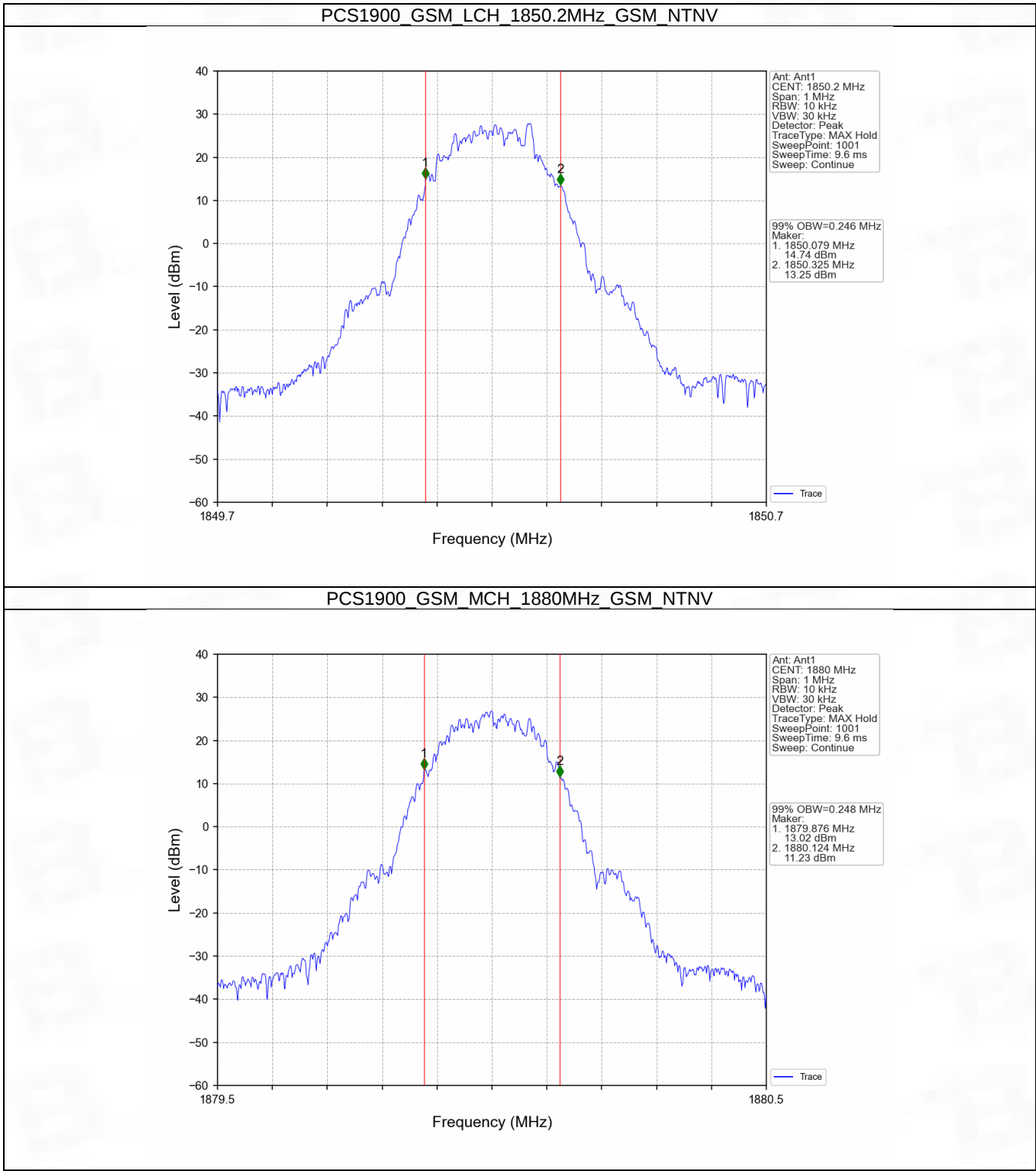
4. 99% & 26dB Bandwidth

4.1 PCS1900_OBW

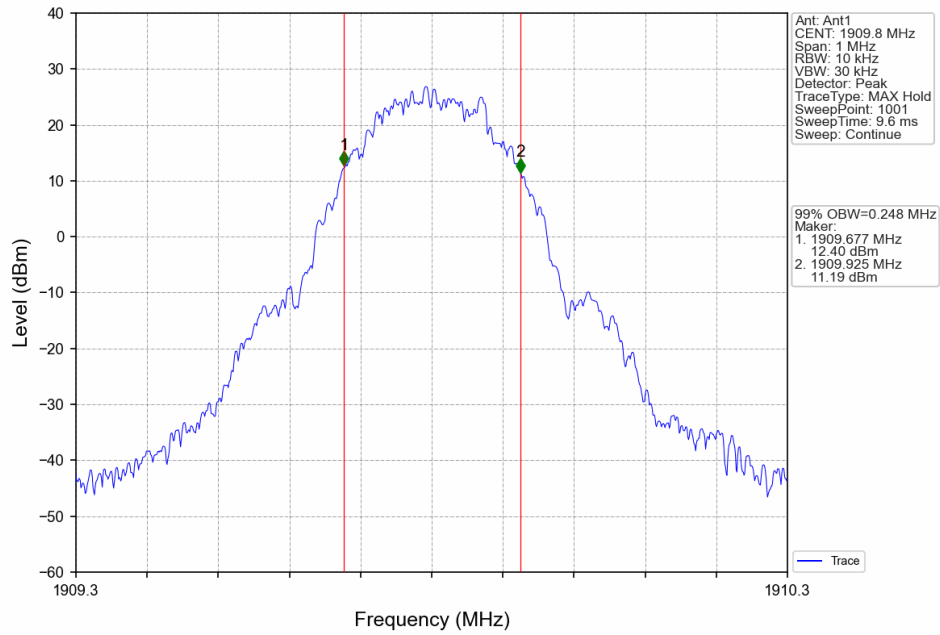
4.1.1 Test Result

Band: PCS1900					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GSM	GSM	1850.2	0.246	Pass
			1880	0.248	Pass
			1909.8	0.248	Pass
	GPRS	1 TX Slot	1850.2	0.242	Pass
			1880	0.246	Pass
			1909.8	0.244	Pass
	EGPRS	1 TX Slot	1850.2	0.256	Pass
			1880	0.269	Pass
			1909.8	0.269	Pass

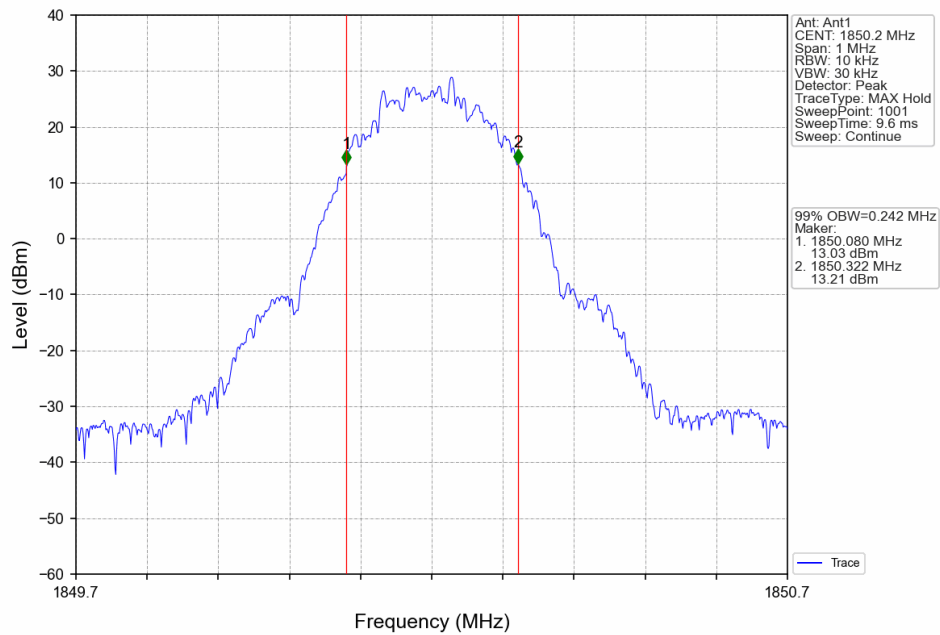
4.1.2 Test Graph



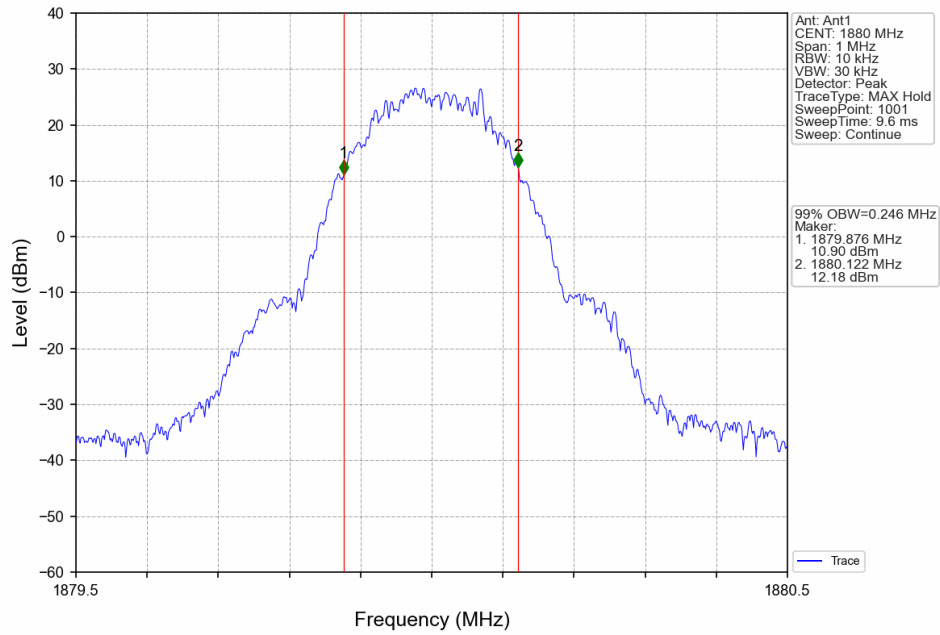
PCS1900 GSM HCH 1909.8MHz GSM NTN



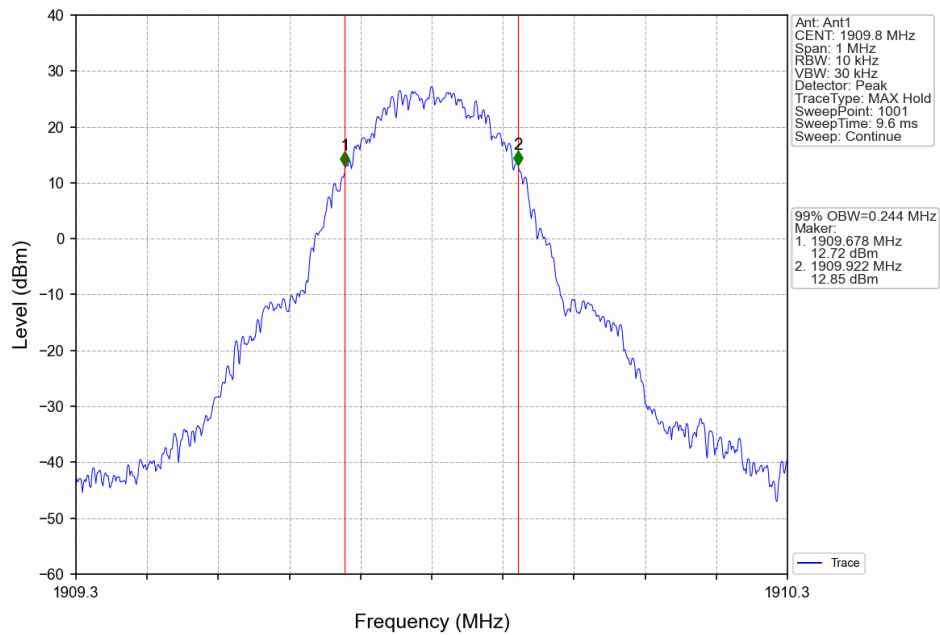
PCS1900 GPRS LCH 1850.2MHz 1 TX Slot NTN



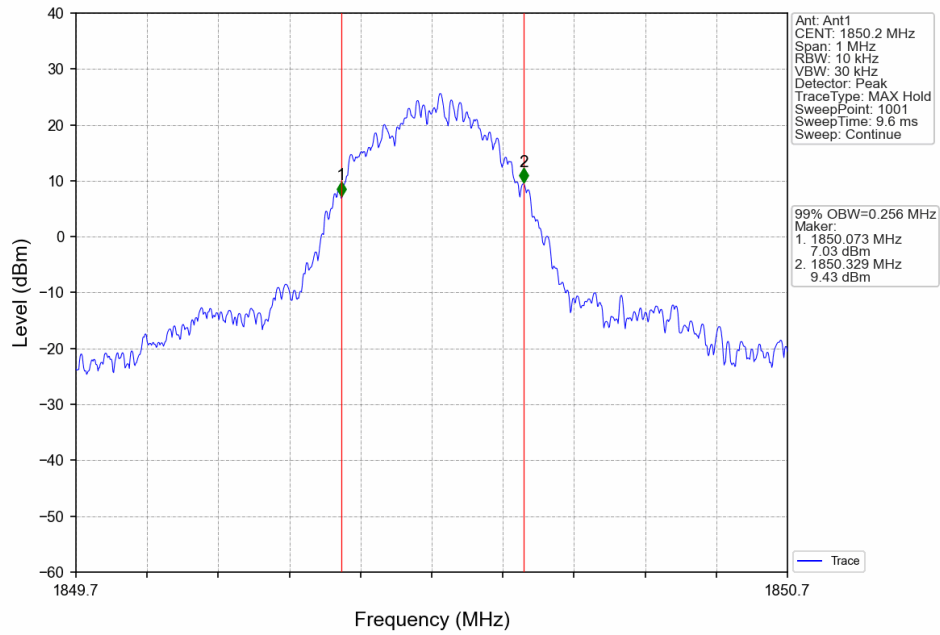
PCS1900 GPRS MCH 1880MHz 1 TX Slot NTNV



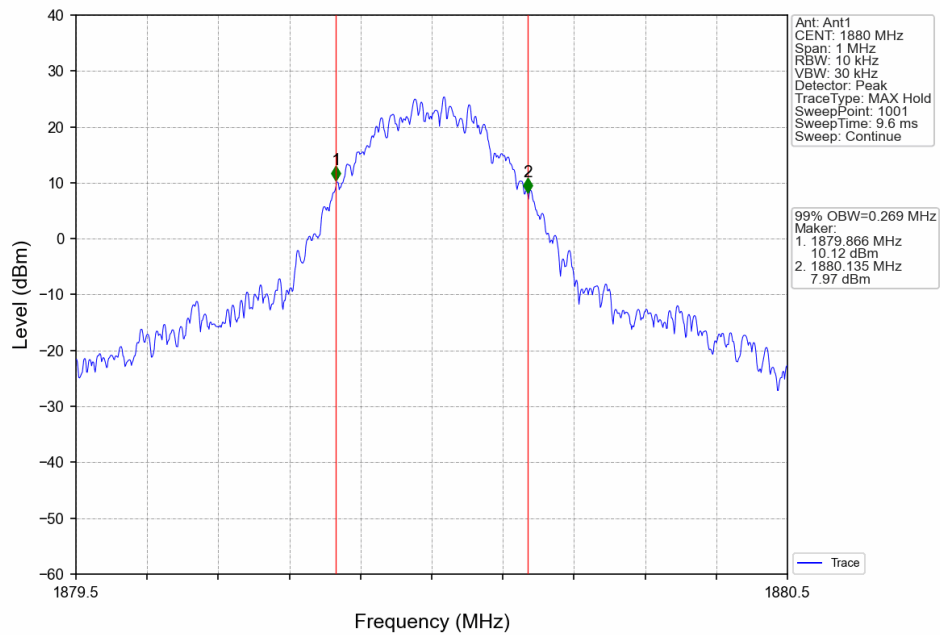
PCS1900 GPRS HCH 1909.8MHz 1 TX Slot NTNV



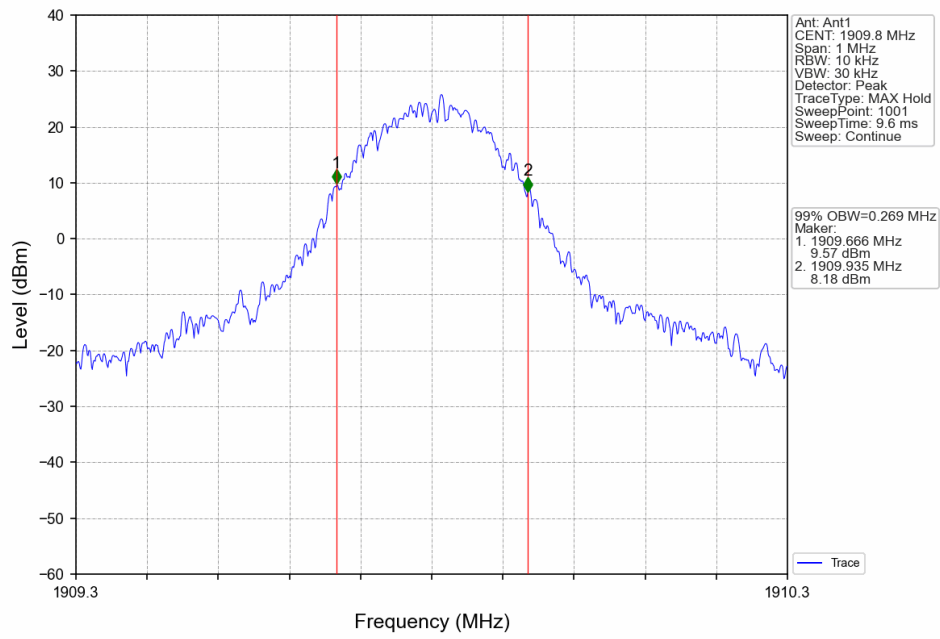
PCS1900 EGPRS LCH 1850.2MHz 1 TX Slot NTNV



PCS1900 EGPRS MCH 1880MHz 1 TX Slot NTNV



PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot NTNV

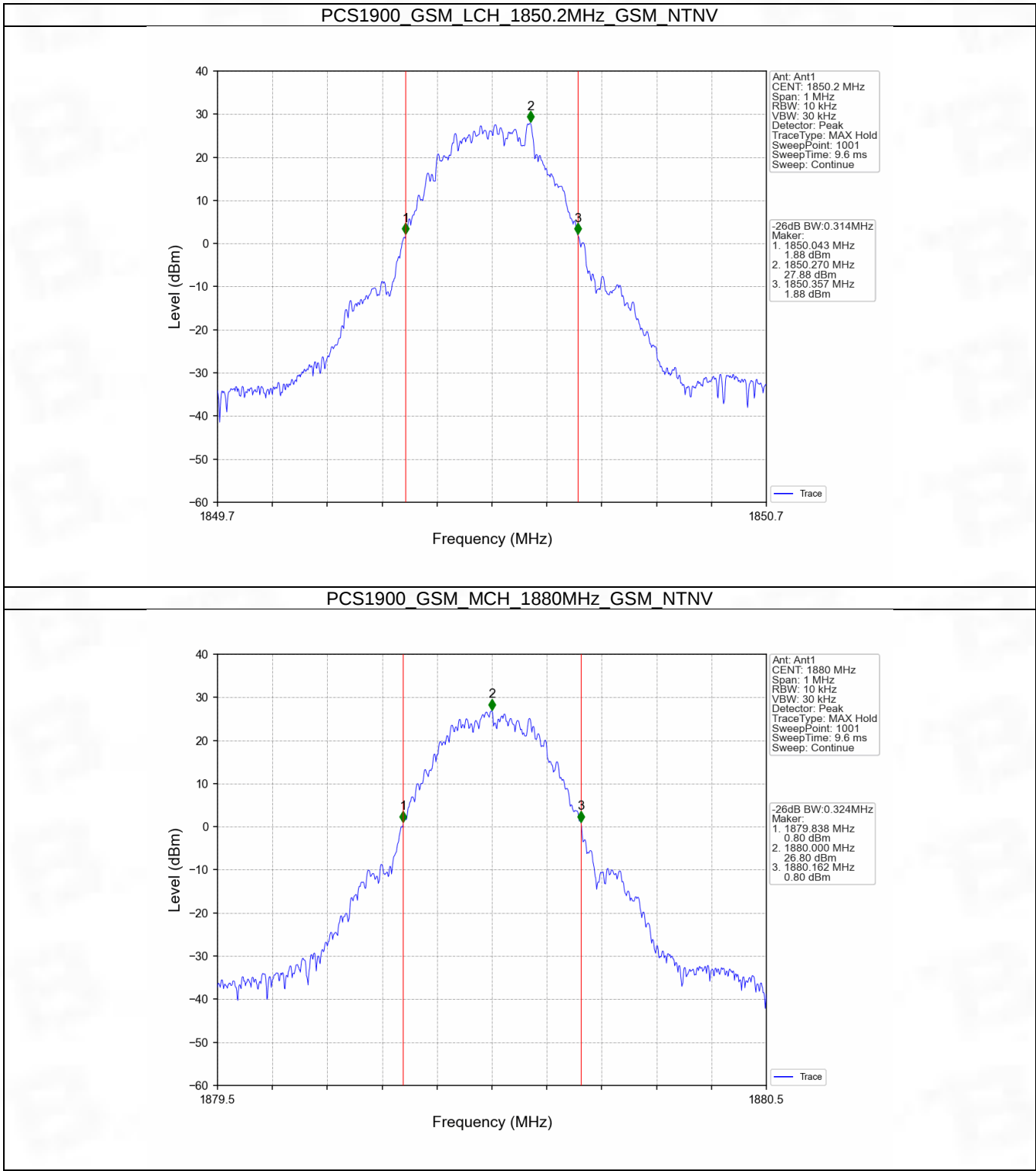


4.2 PCS1900_XDB

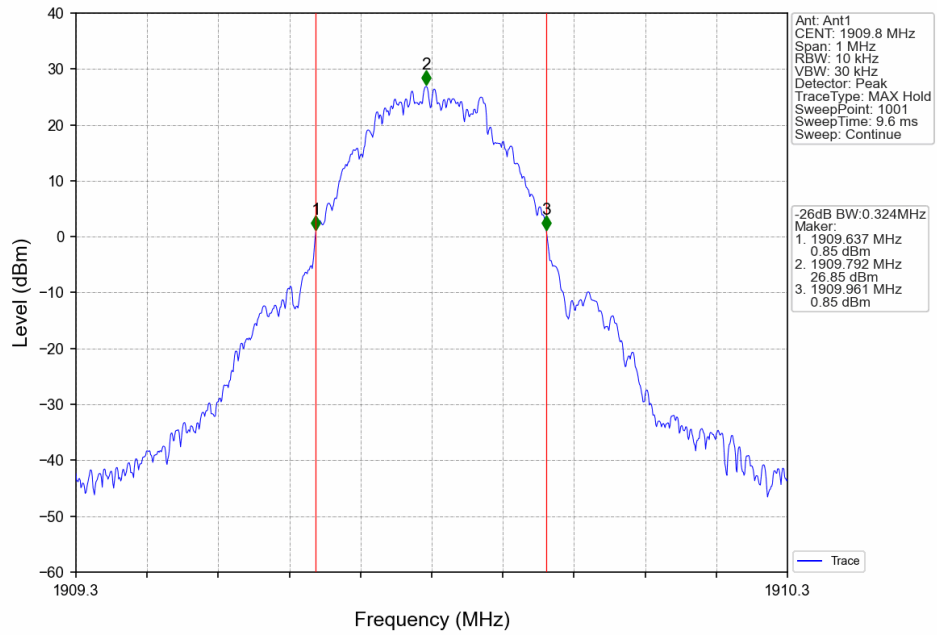
4.2.1 Test Result

Band: PCS1900					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GSM	GSM	1850.2	0.314	Pass
			1880	0.324	Pass
			1909.8	0.324	Pass
	GPRS	1 TX Slot	1850.2	0.308	Pass
			1880	0.320	Pass
			1909.8	0.313	Pass
	EGPRS	1 TX Slot	1850.2	0.320	Pass
			1880	0.352	Pass
			1909.8	0.340	Pass

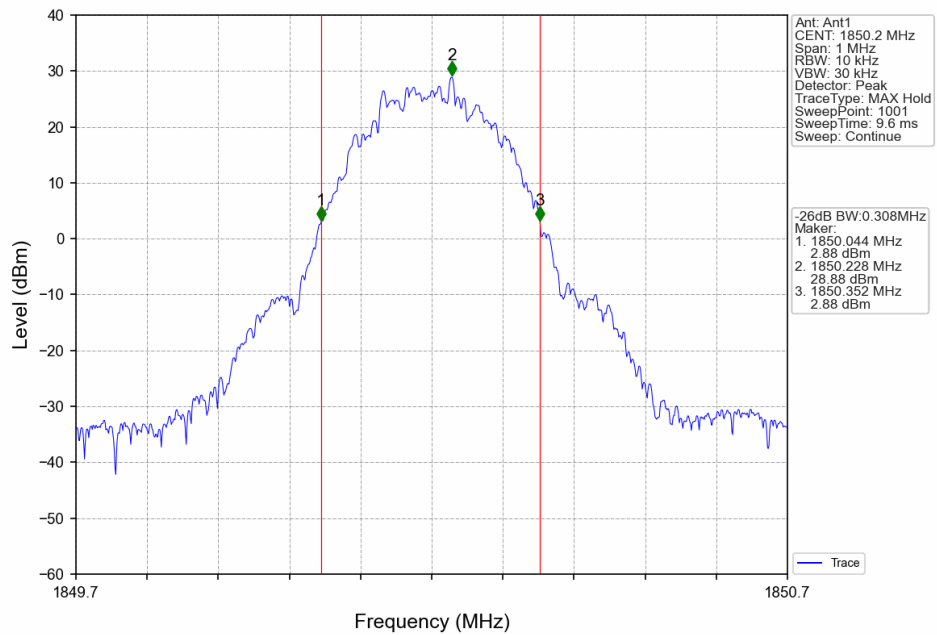
4.2.2 Test Graph



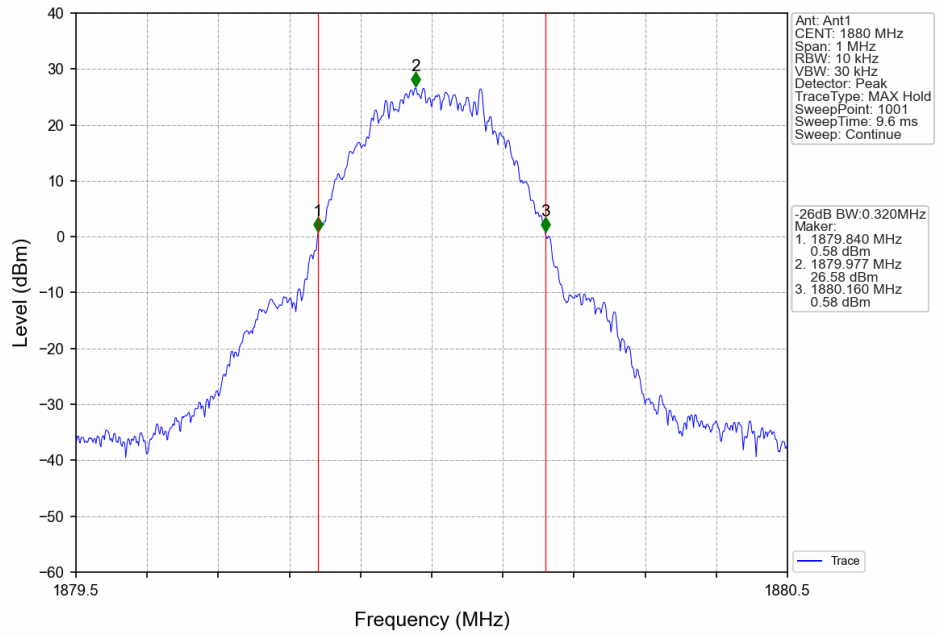
PCS1900 GSM HCH 1909.8MHz GSM NTN



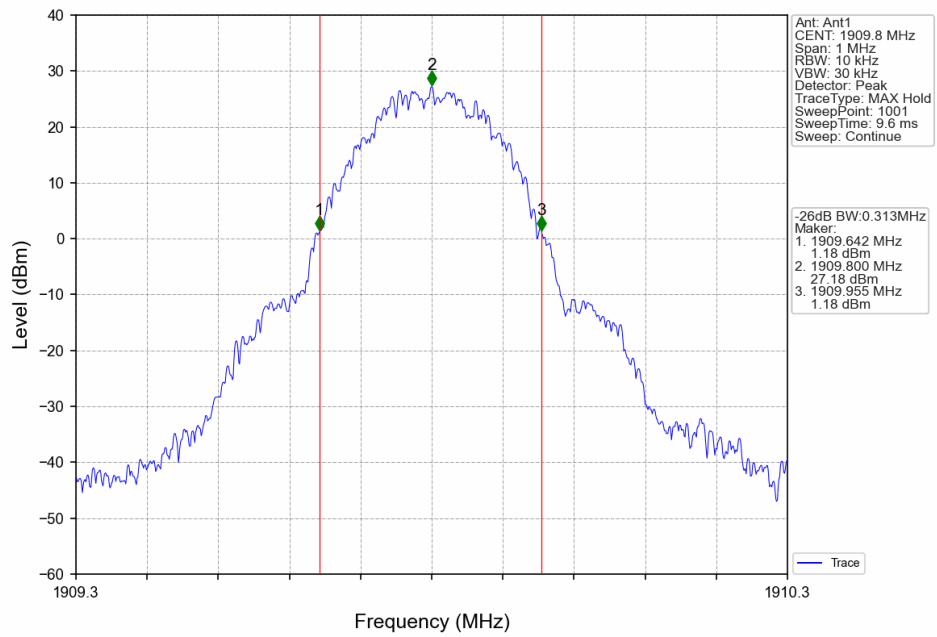
PCS1900 GPRS LCH 1850.2MHz 1 TX Slot NTN



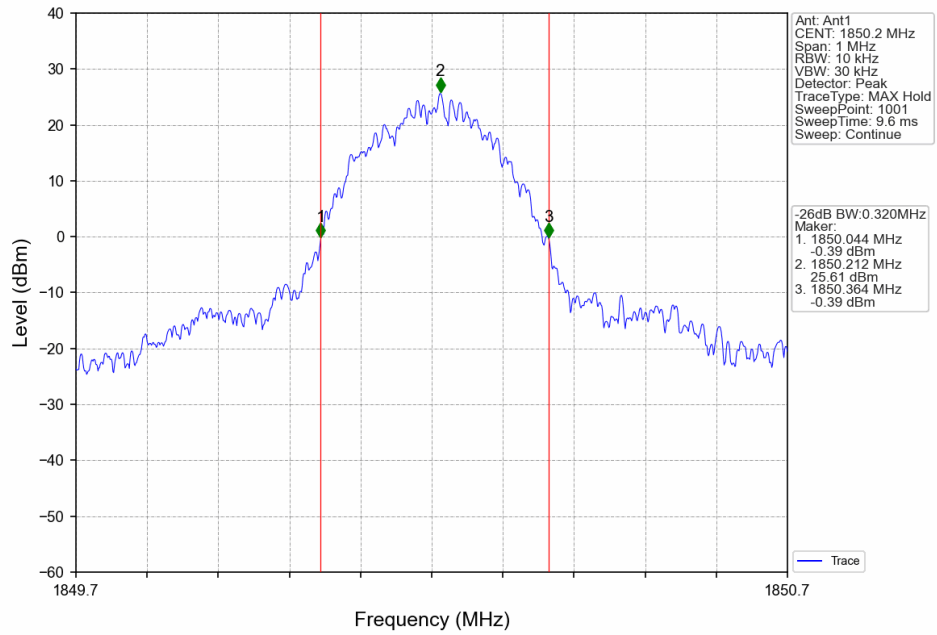
PCS1900 GPRS MCH 1880MHz 1 TX Slot NTNV



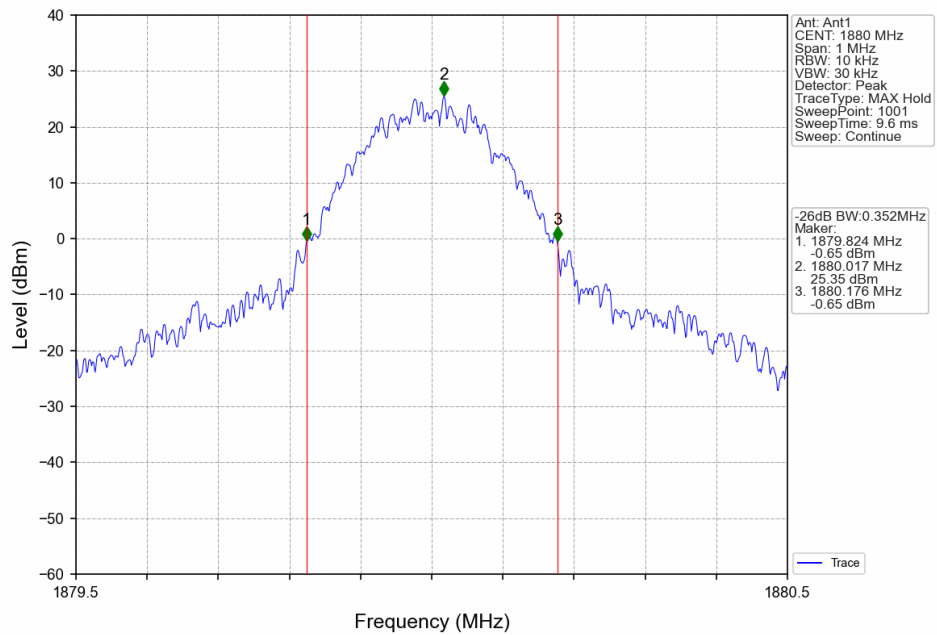
PCS1900 GPRS HCH 1909.8MHz 1 TX Slot NTNV



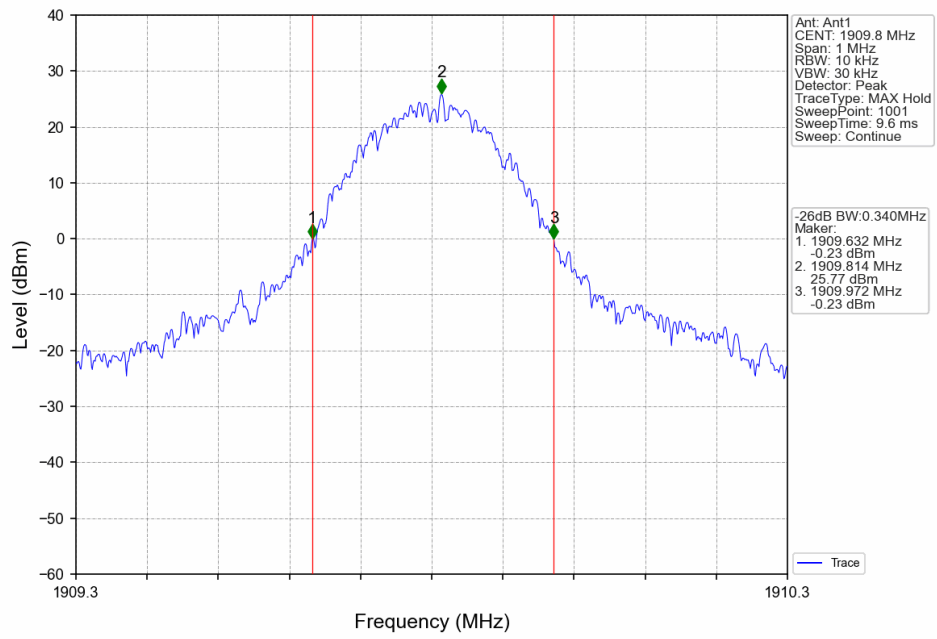
PCS1900 EGPRS LCH 1850.2MHz 1 TX Slot NTNV



PCS1900 EGPRS MCH 1880MHz 1 TX Slot NTNV



PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot NTNV



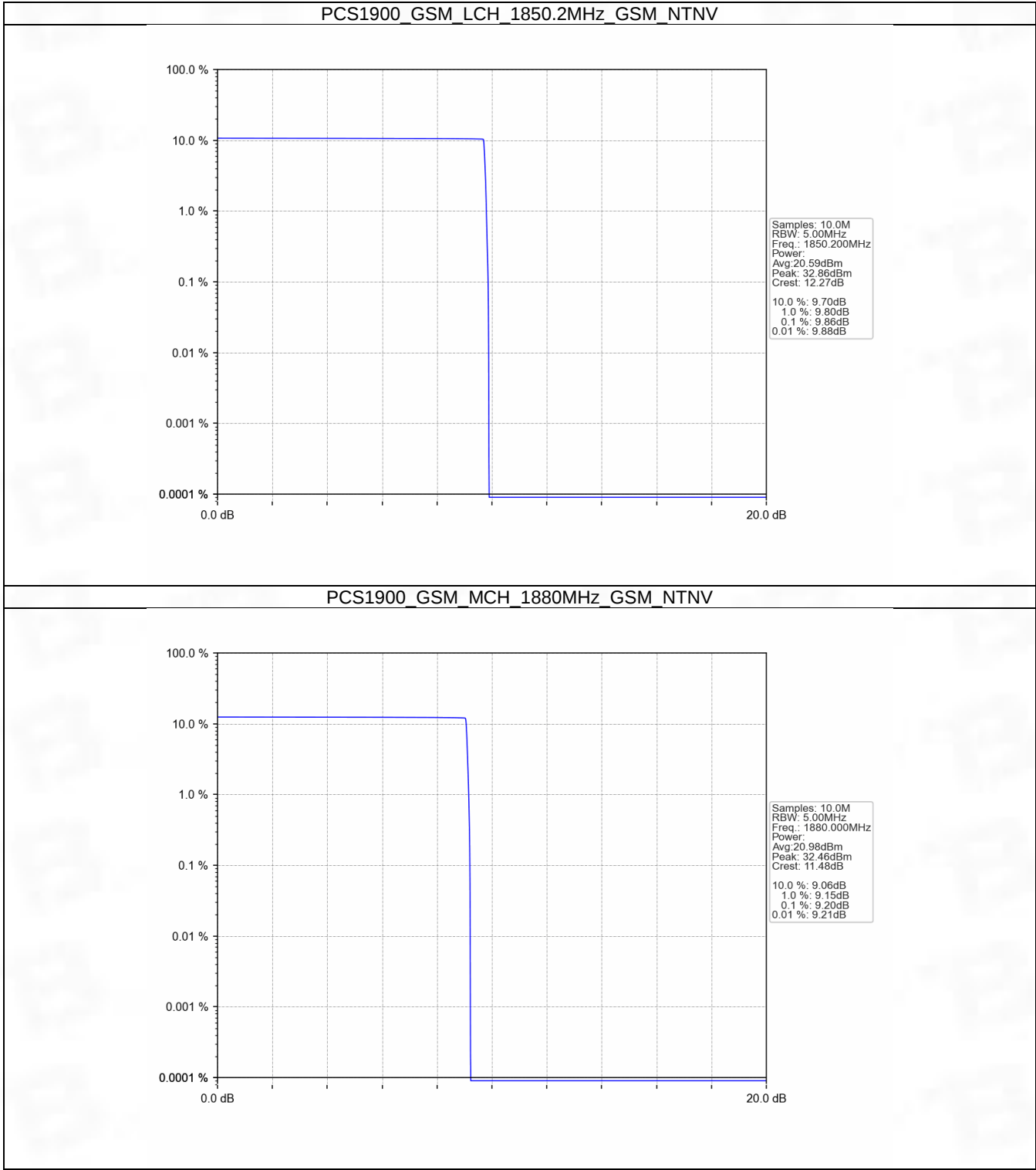
5. Peak-Average Ratio

5.1 PCS1900

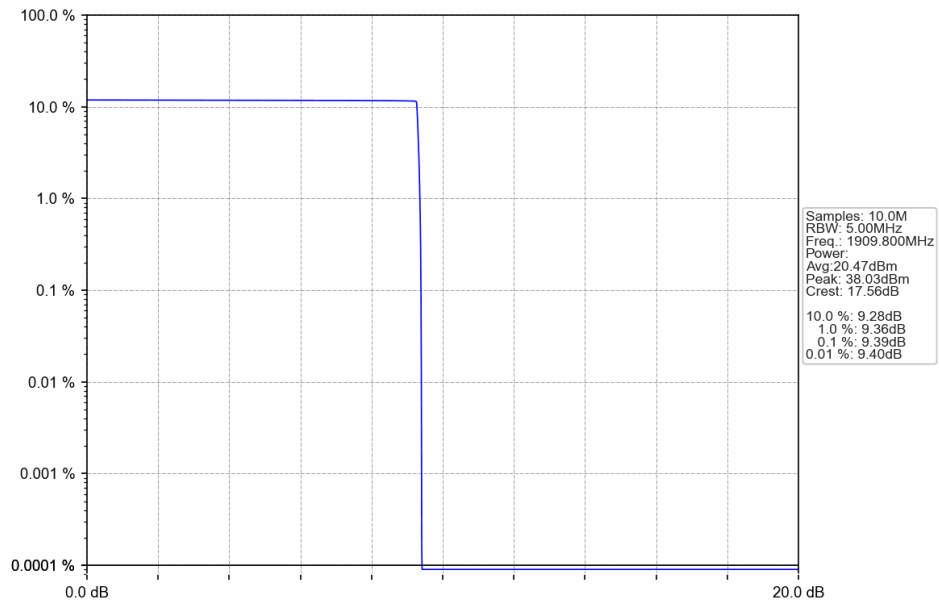
5.1.1 Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	9.86	<=13	Pass
			1880	9.20	<=13	Pass
			1909.8	9.39	<=13	Pass
	GPRS	4 TX Slots	1850.2	3.62	<=13	Pass
			1880	3.74	<=13	Pass
			1909.8	3.90	<=13	Pass
	EGPRS	4 TX Slots	1850.2	9.18	<=13	Pass
			1880	7.24	<=13	Pass
			1909.8	7.26	<=13	Pass

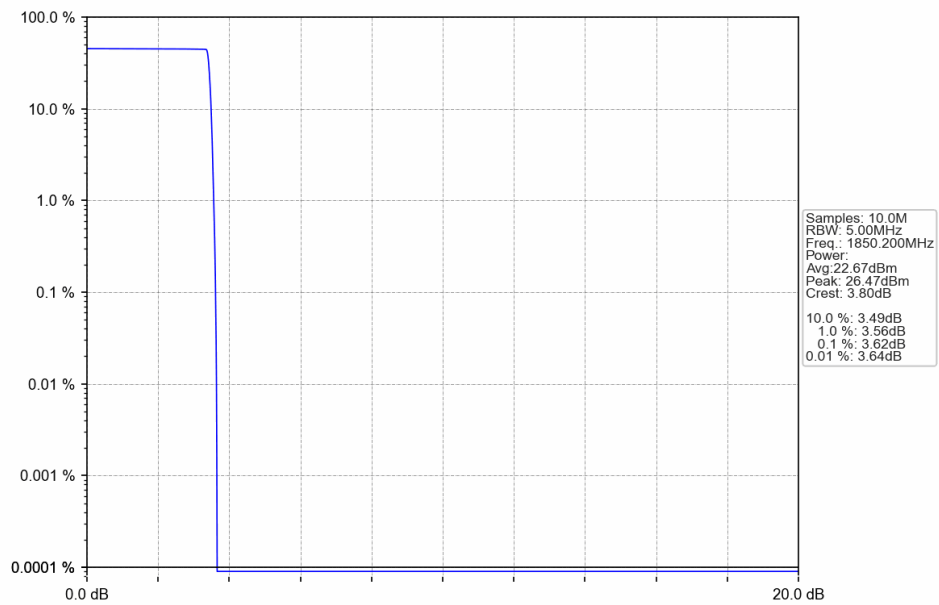
5.1.2 Test Graph



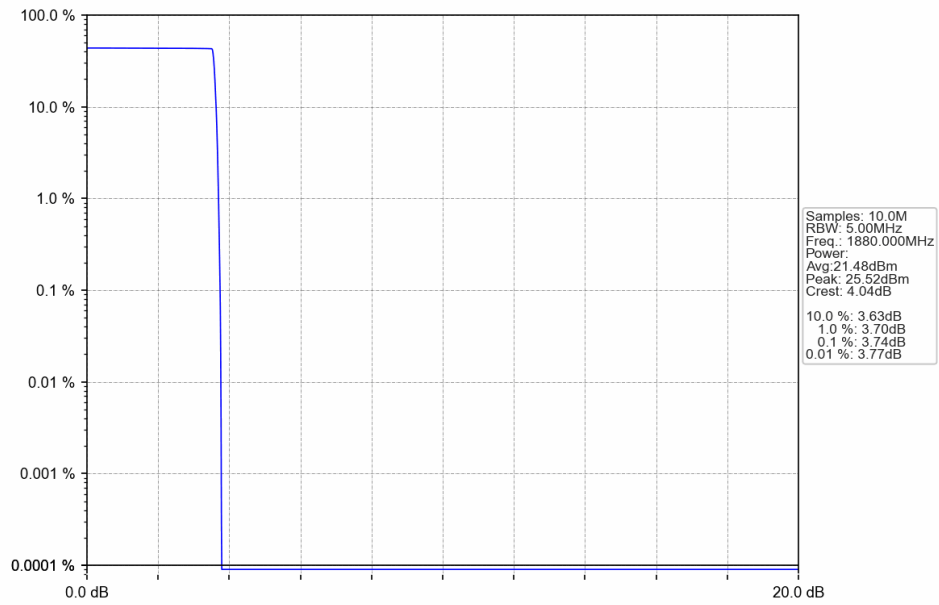
PCS1900 GSM HCH 1909.8MHz GSM NTNV



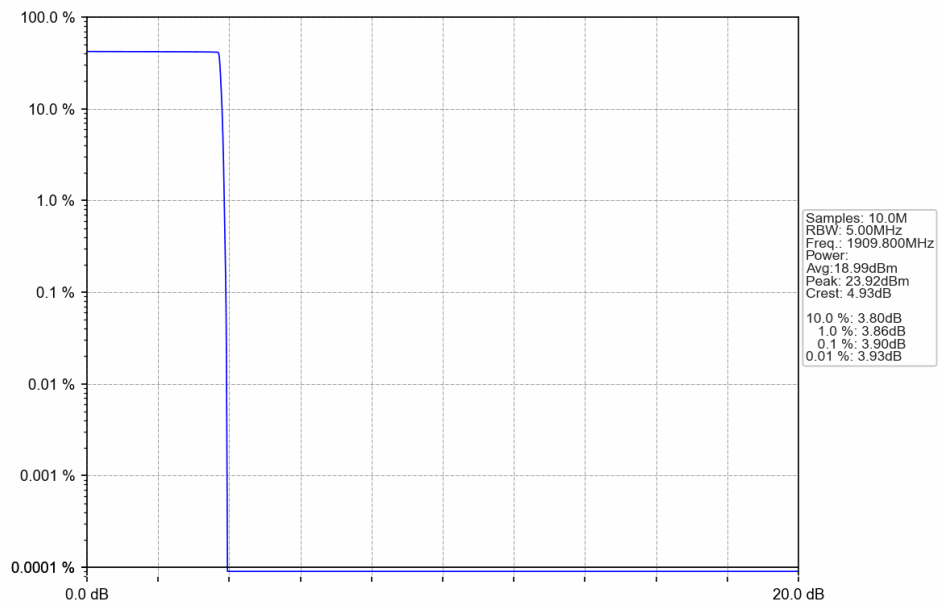
PCS1900 GPRS LCH 1850.2MHz 4 TX Slots NTNV



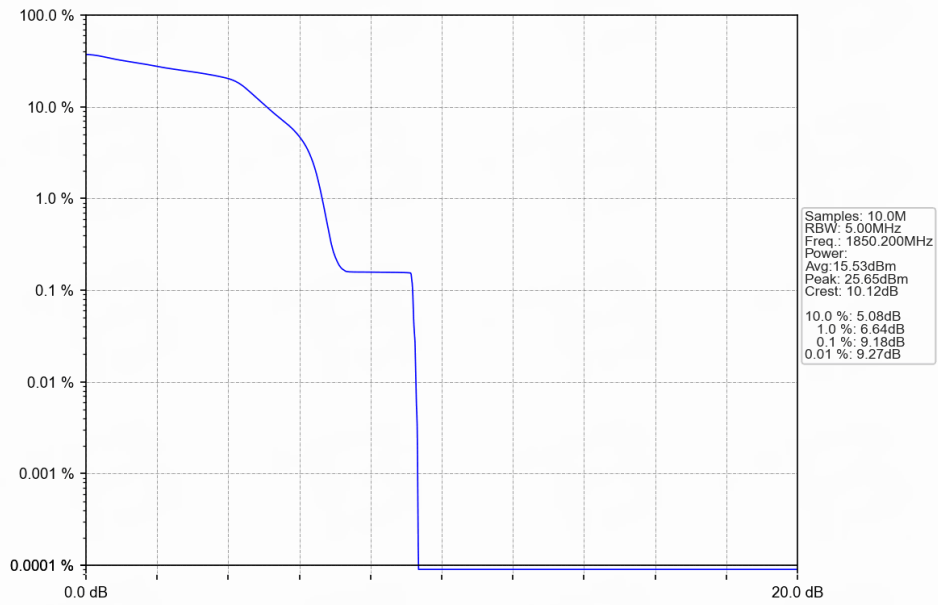
PCS1900 GPRS MCH 1880MHz 4 TX Slots NTNV



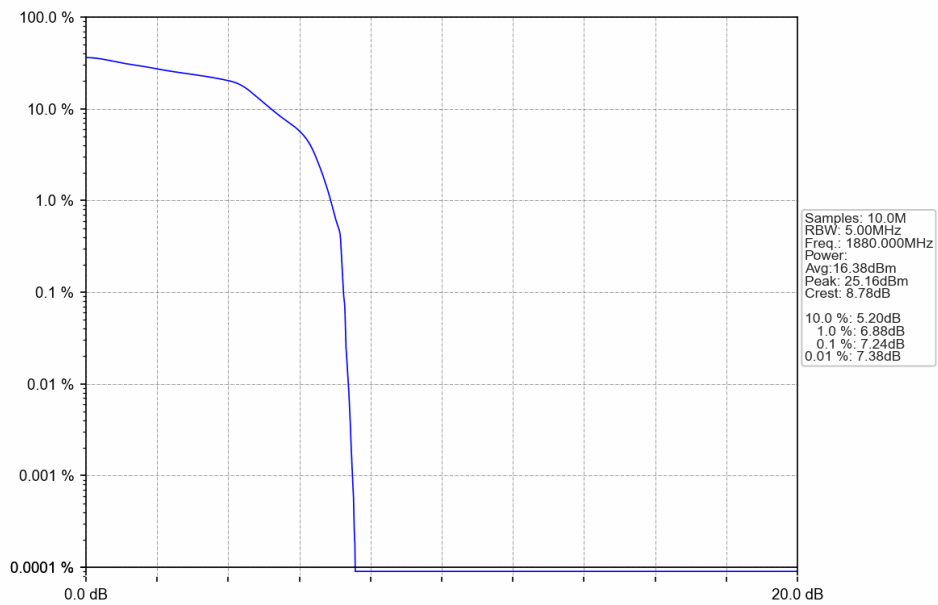
PCS1900 GPRS HCH 1909.8MHz 4 TX Slots NTNV

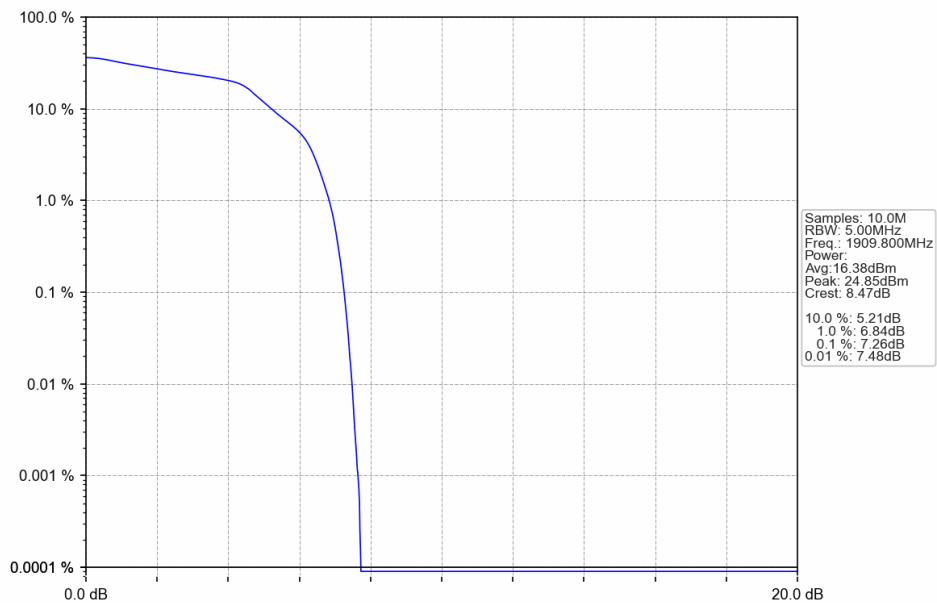


PCS1900 EGPRS LCH 1850.2MHz 4 TX Slots NTNV



PCS1900 EGPRS MCH 1880MHz 4 TX Slots NTNV





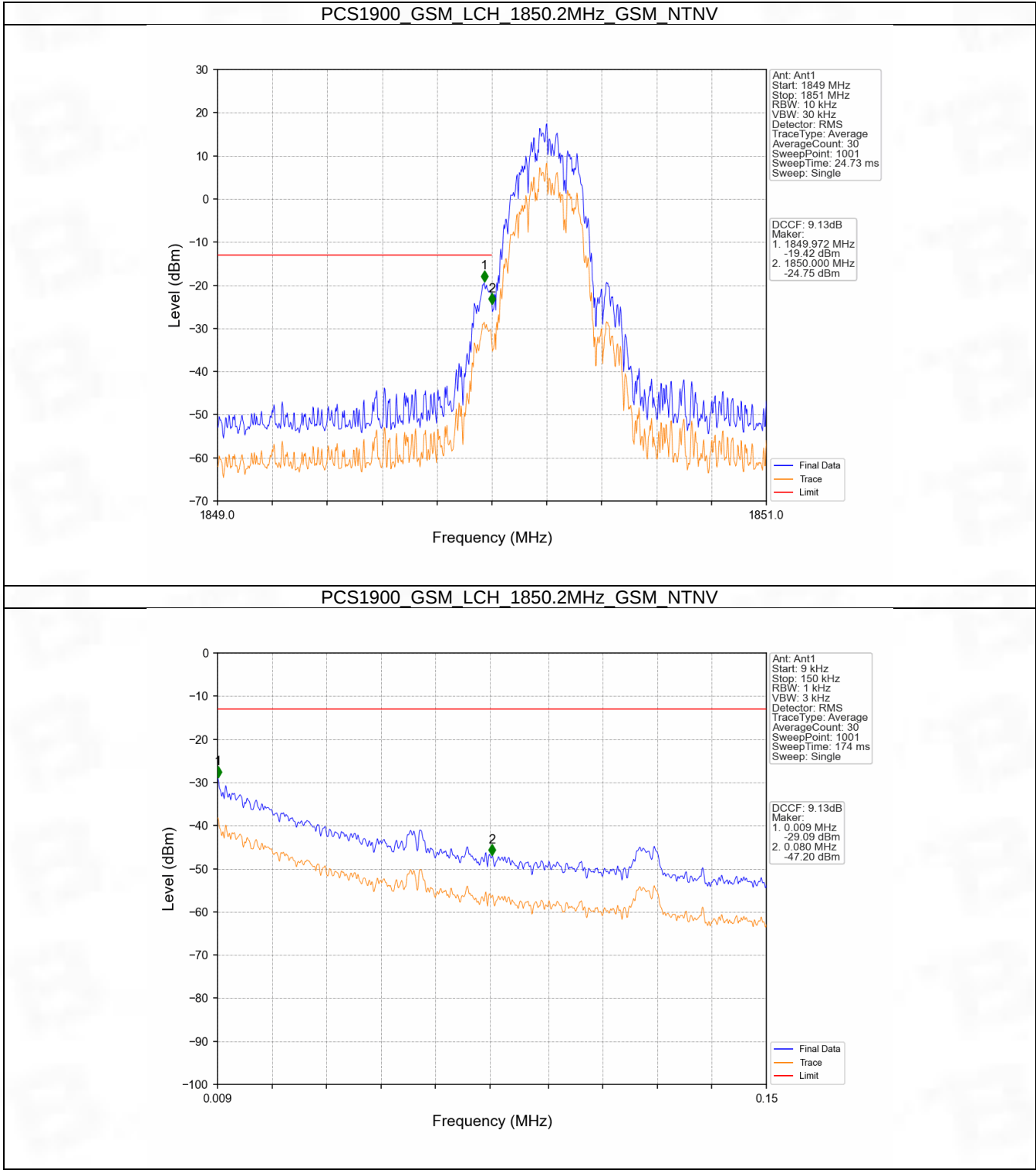
6. Spurious Emission

6.1 PCS1900

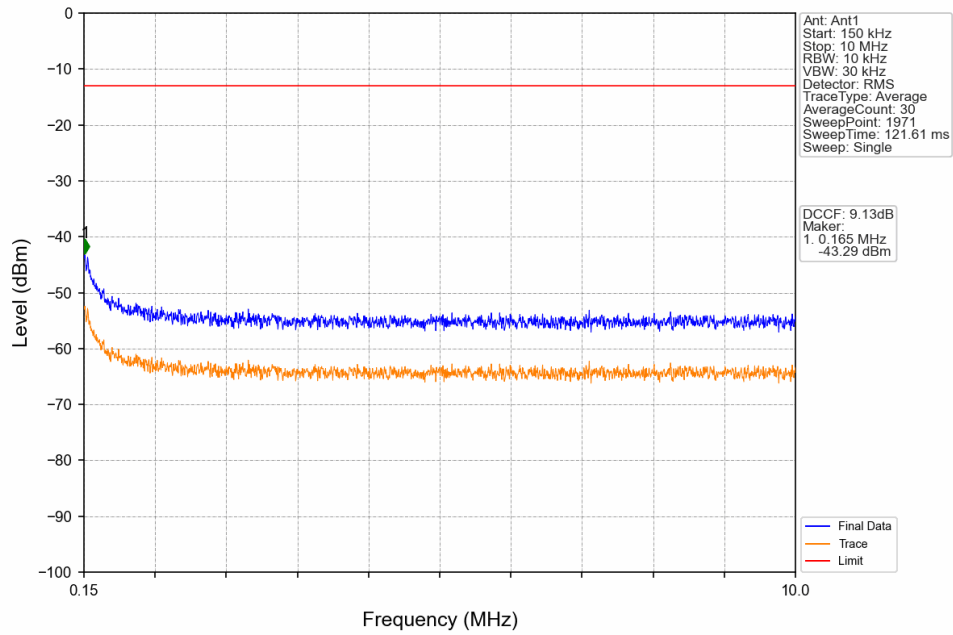
6.1.1 Test Result

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

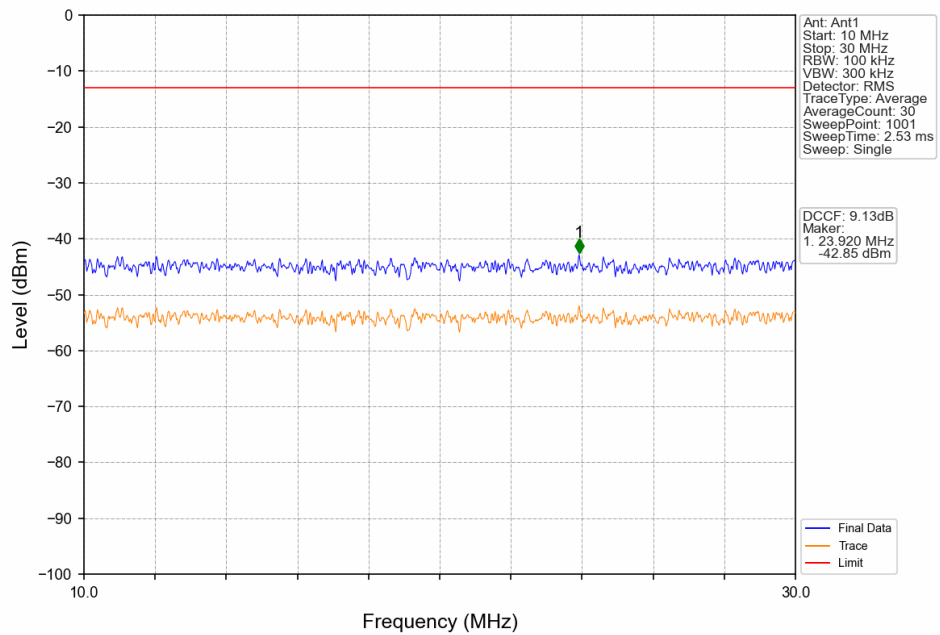
6.1.2 Test Graph



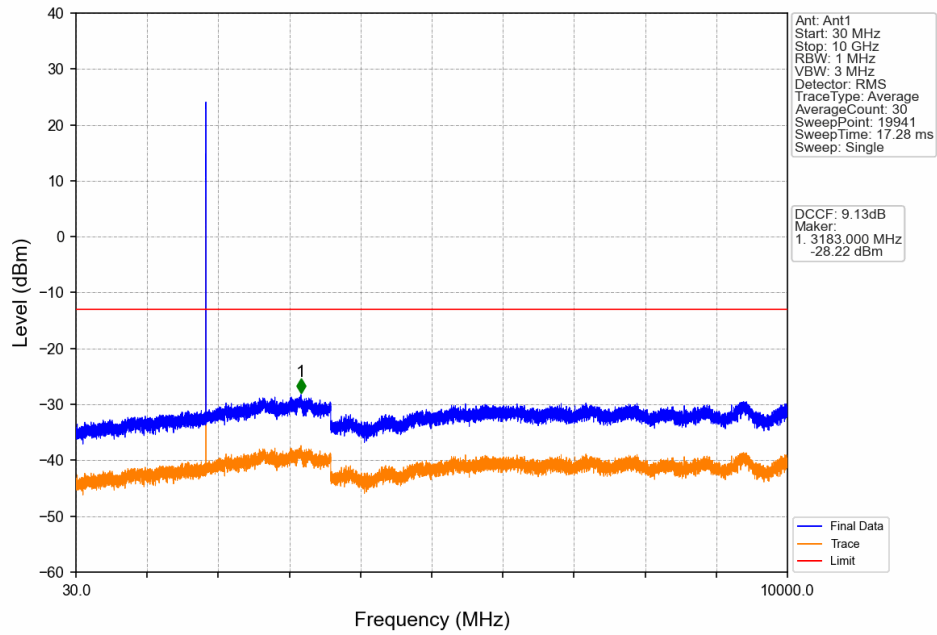
PCS1900 GSM LCH 1850.2MHz GSM NTNV



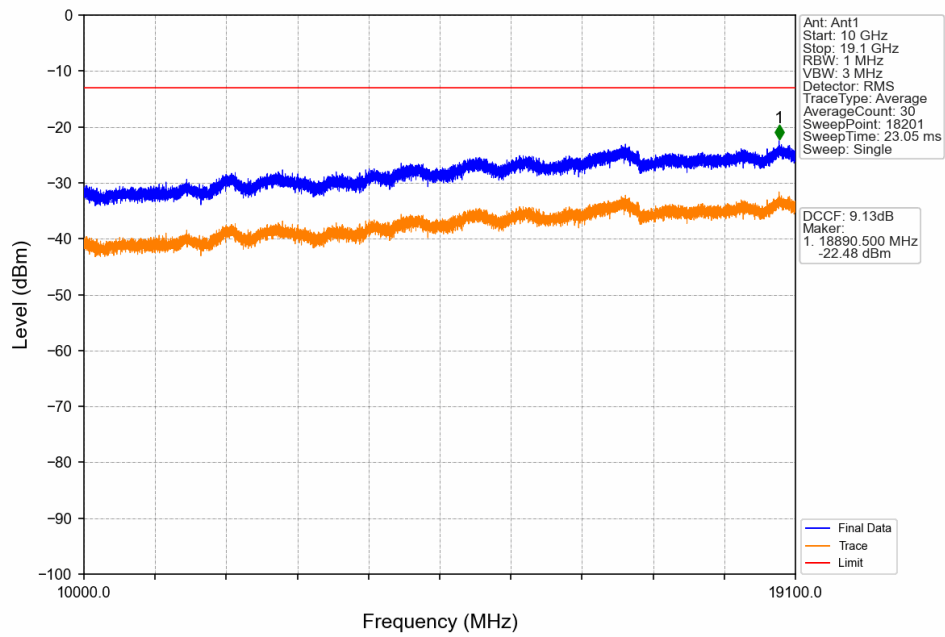
PCS1900 GSM LCH 1850.2MHz GSM NTNV



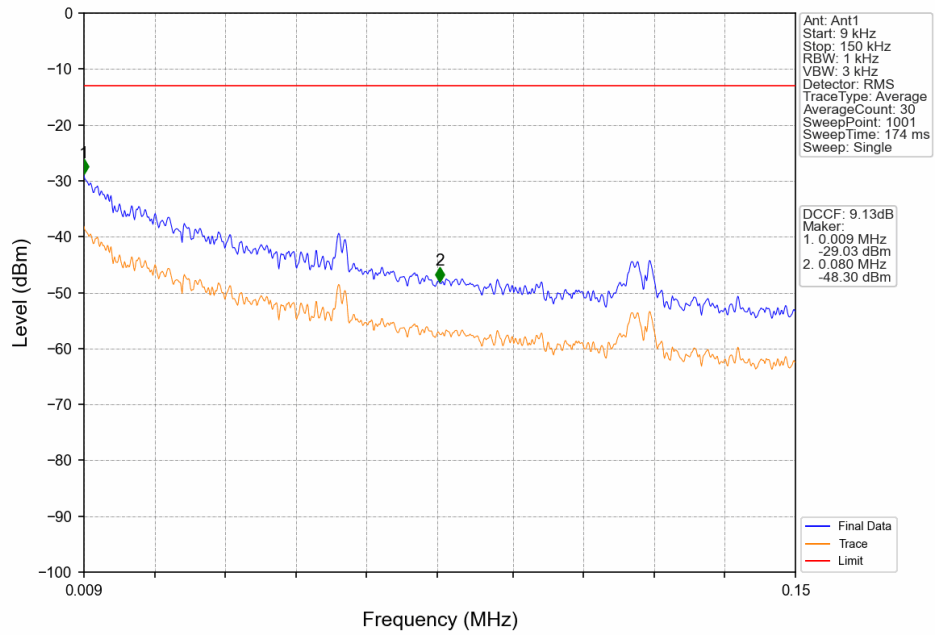
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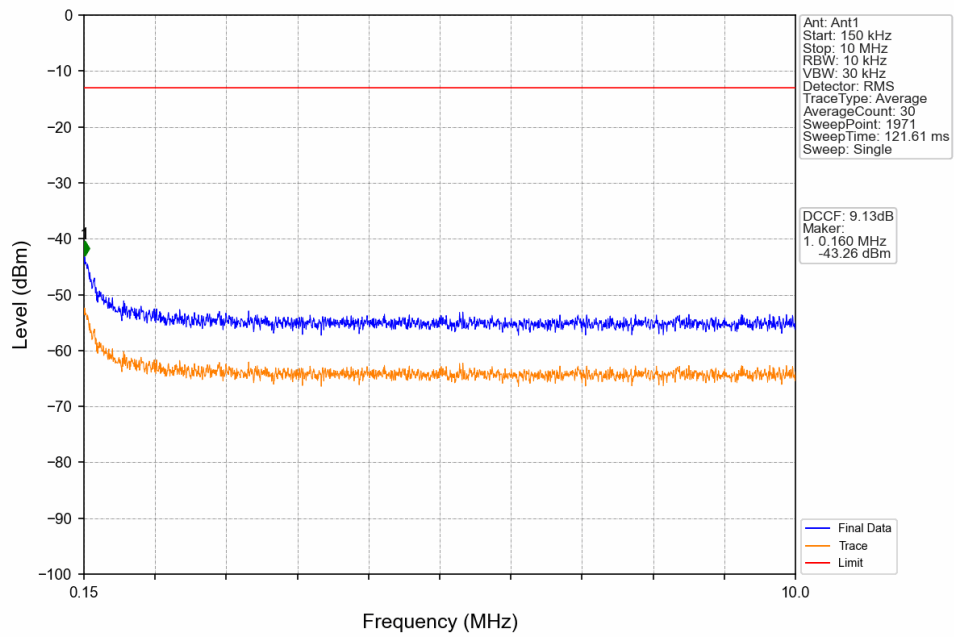
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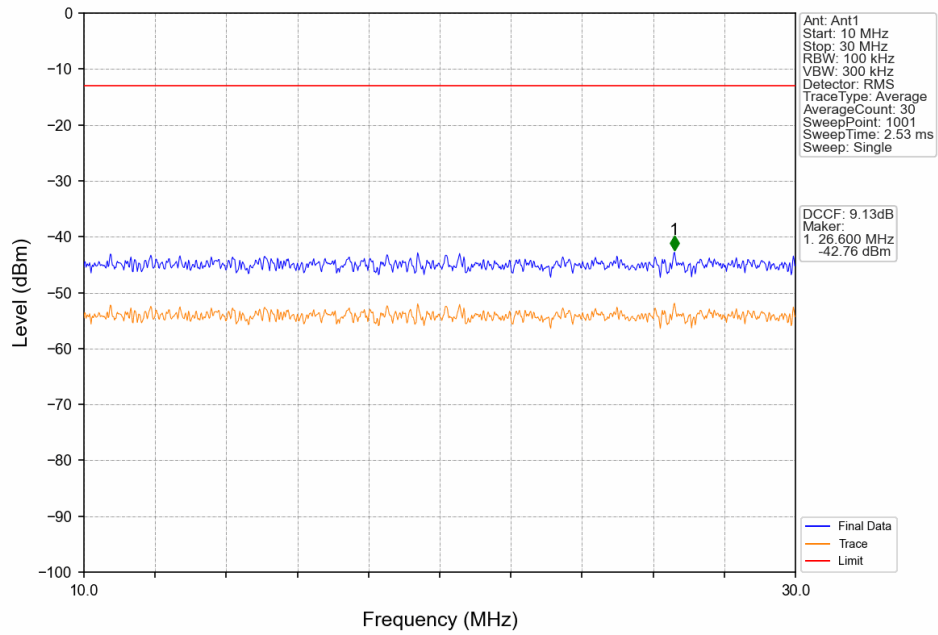
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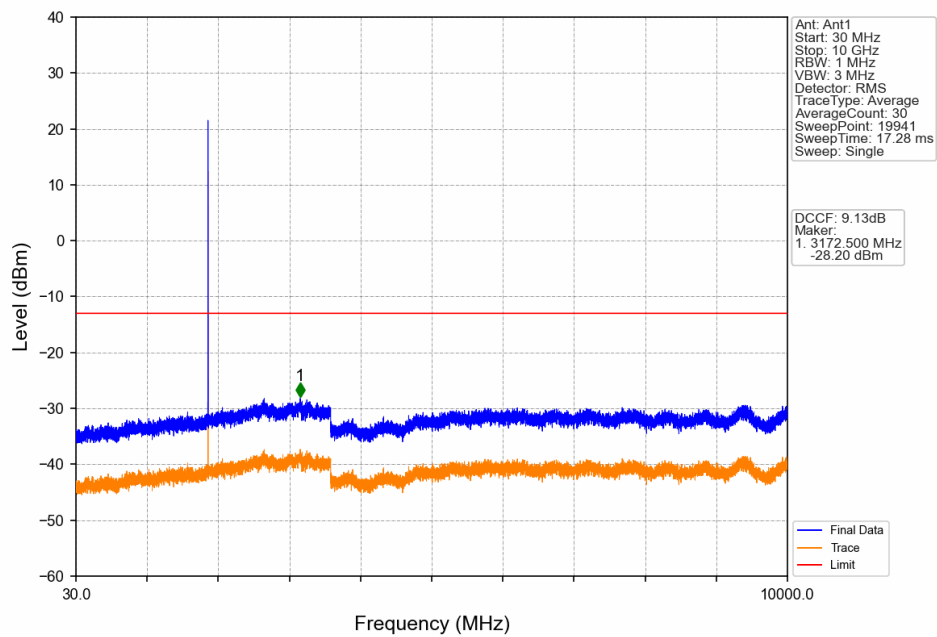
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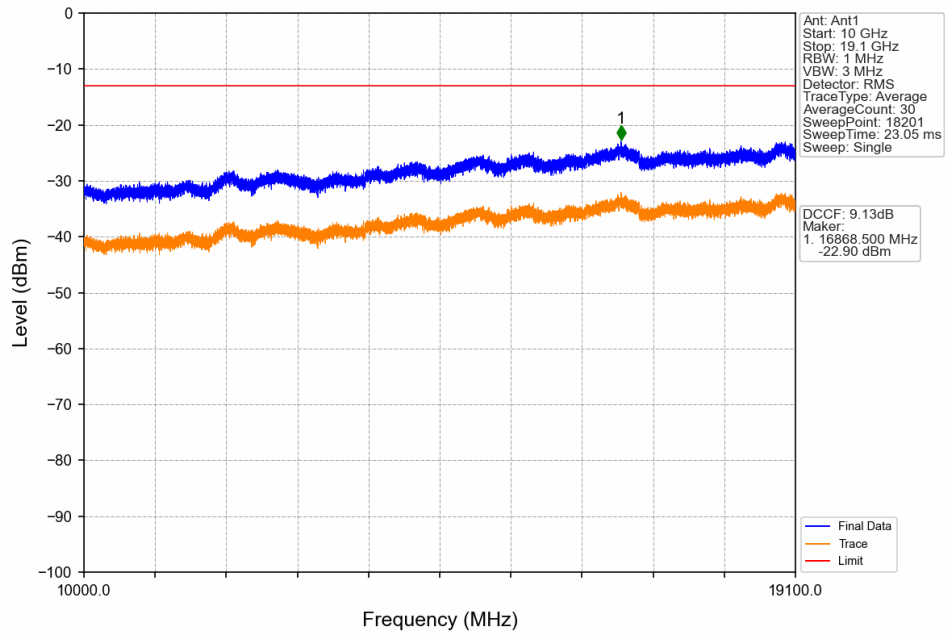
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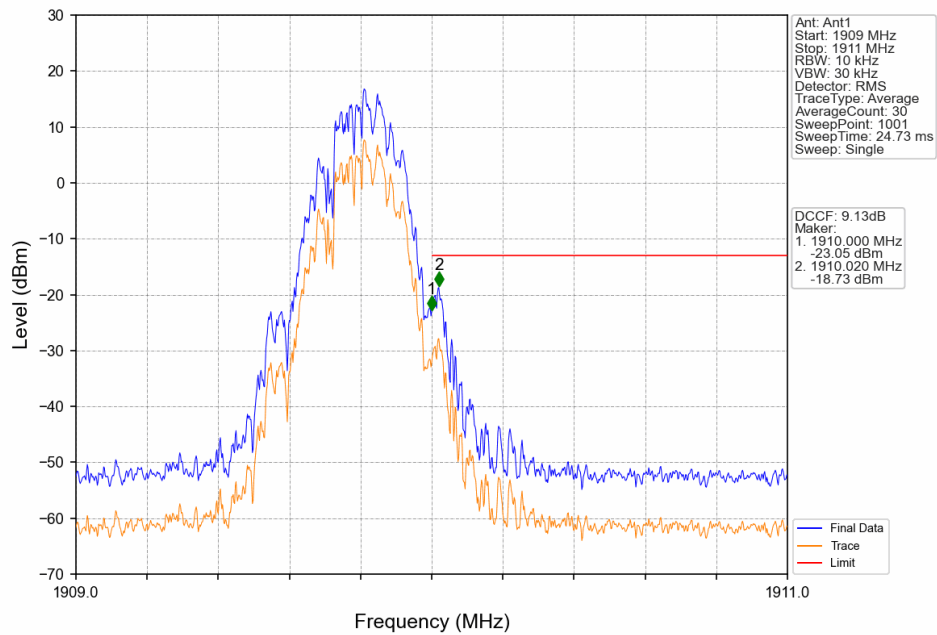
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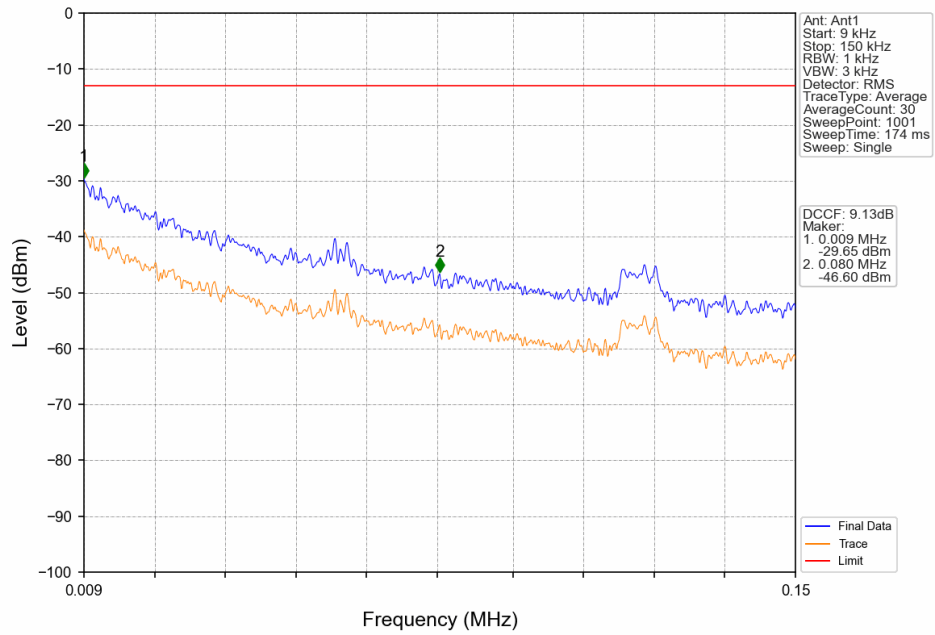
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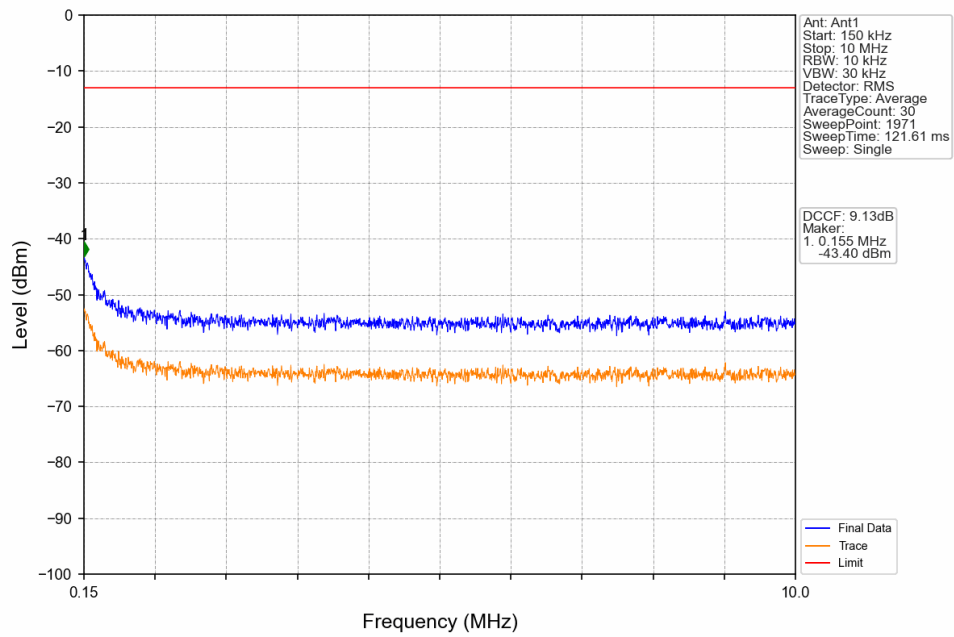
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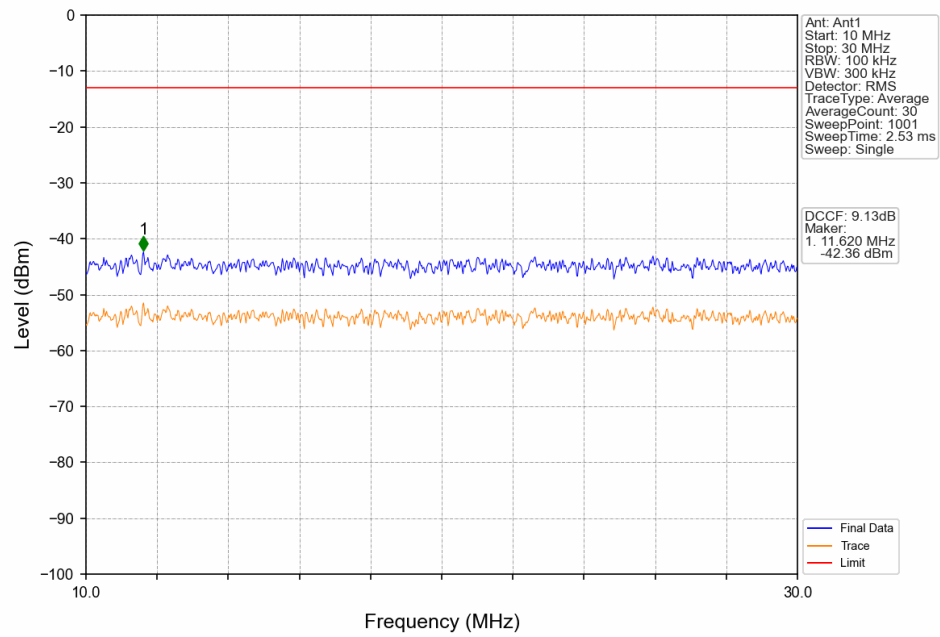
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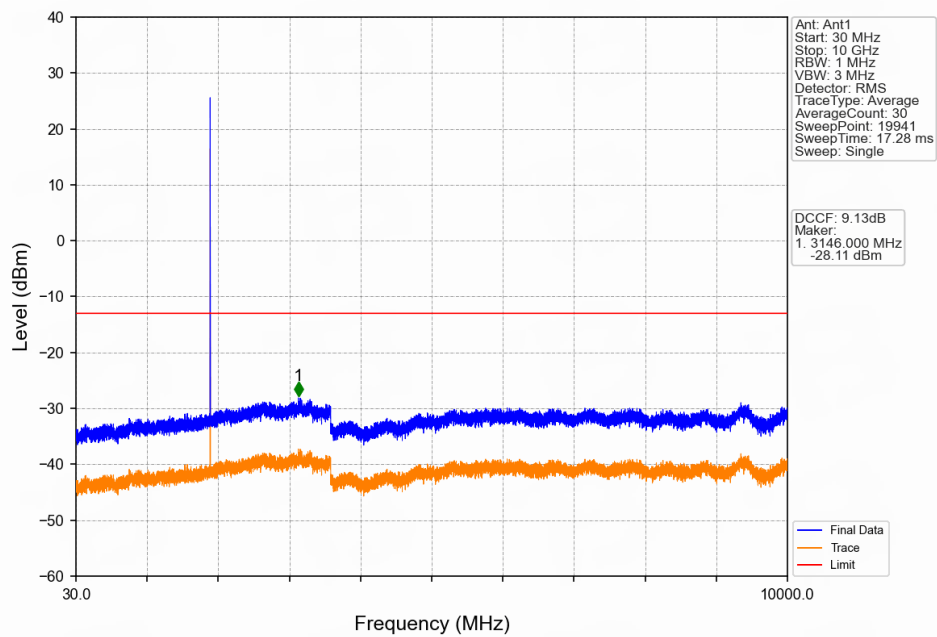
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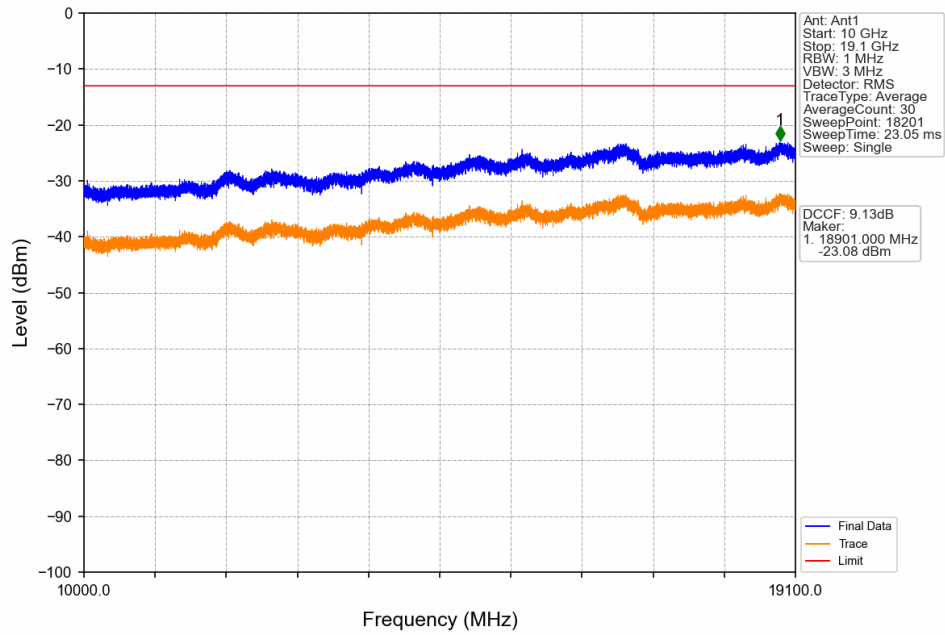
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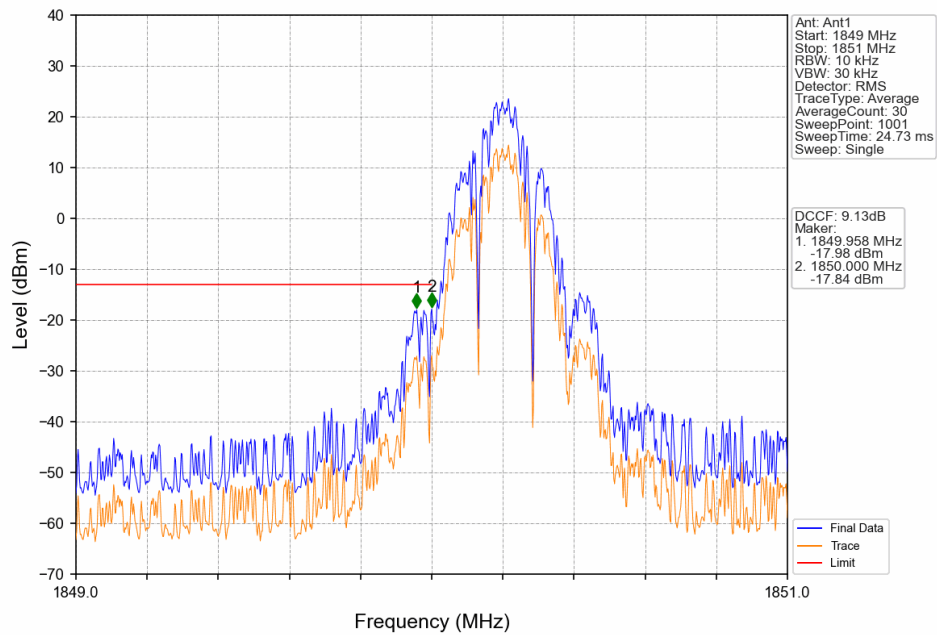
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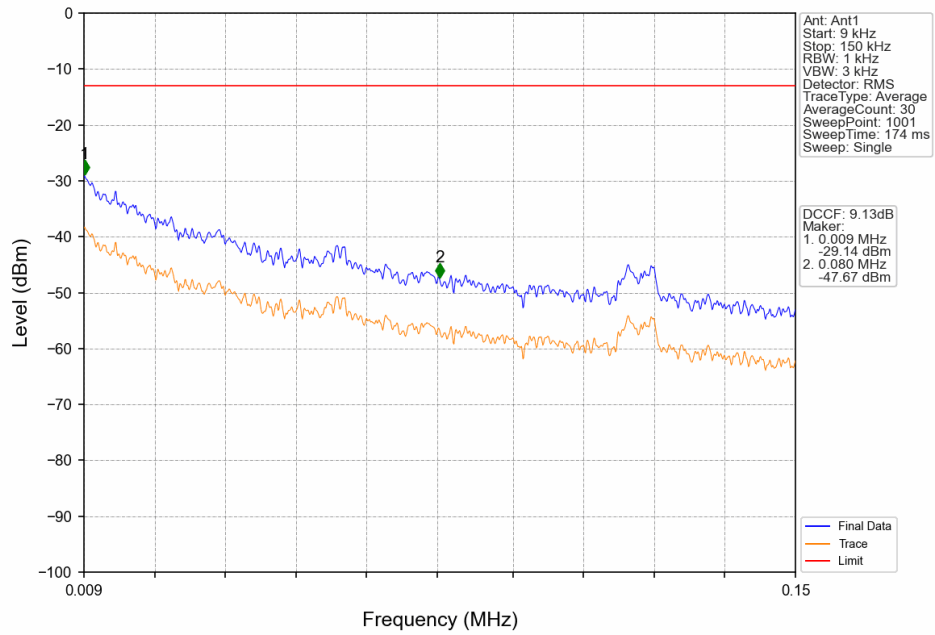
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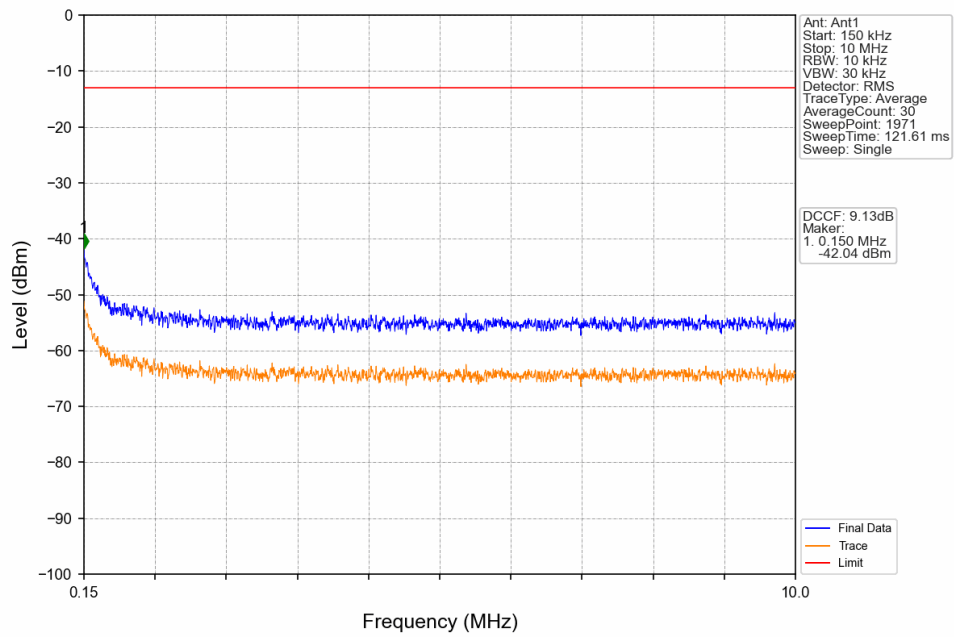
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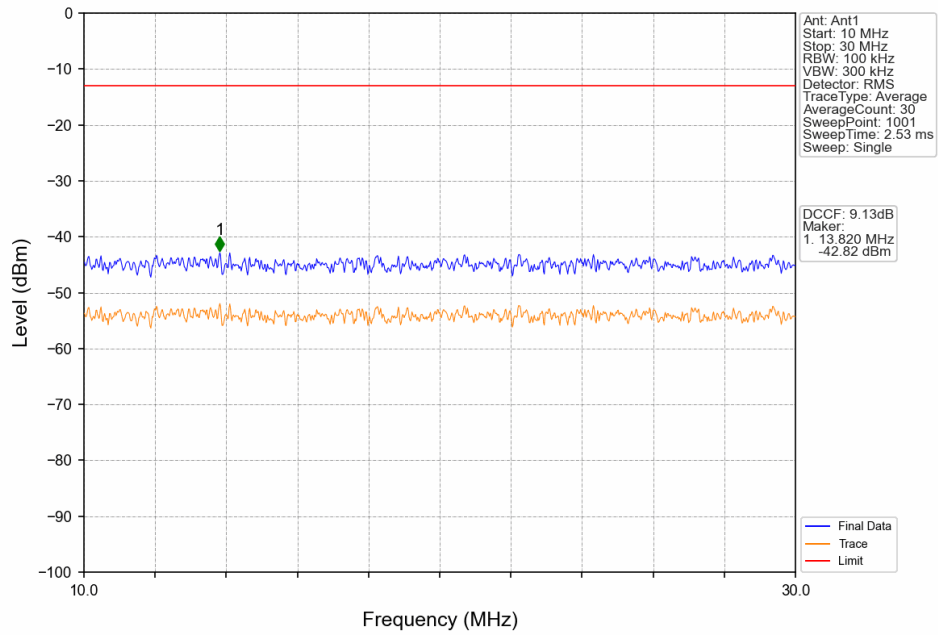
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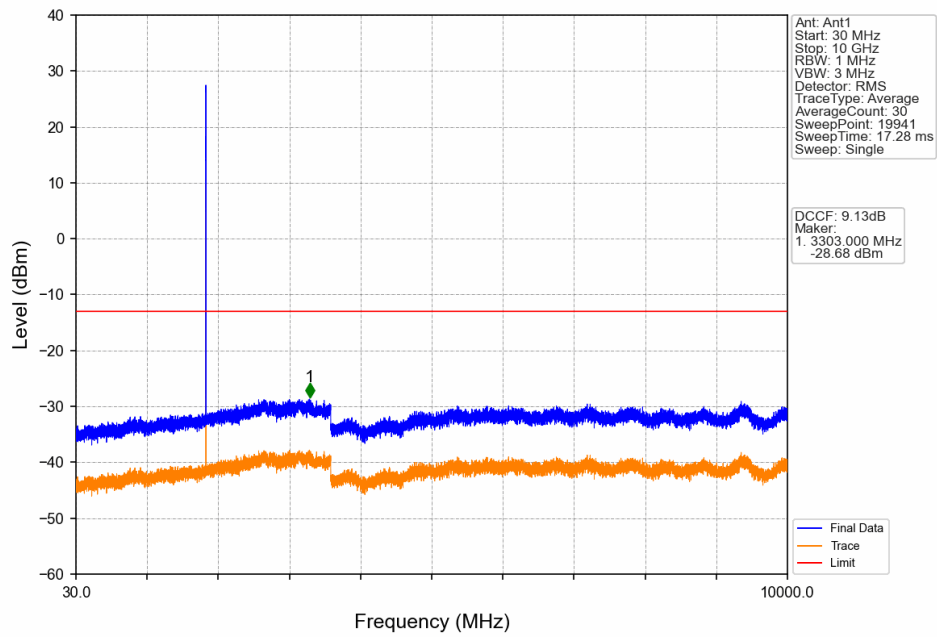
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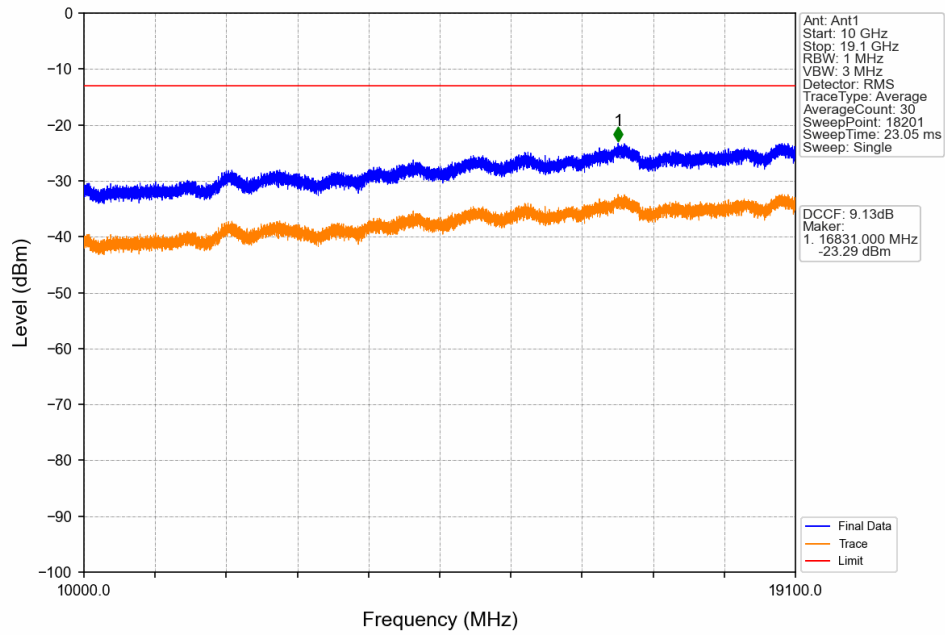
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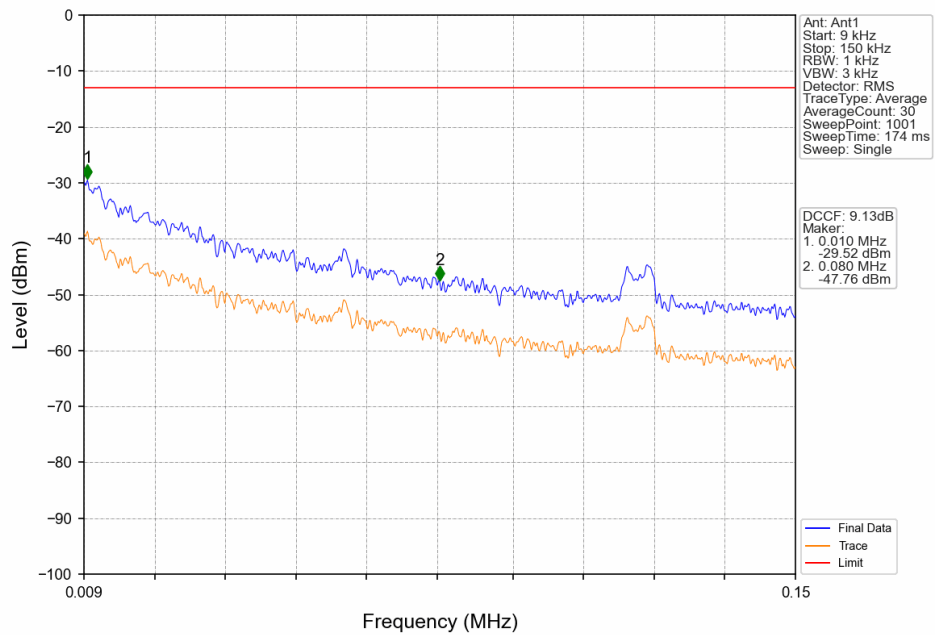
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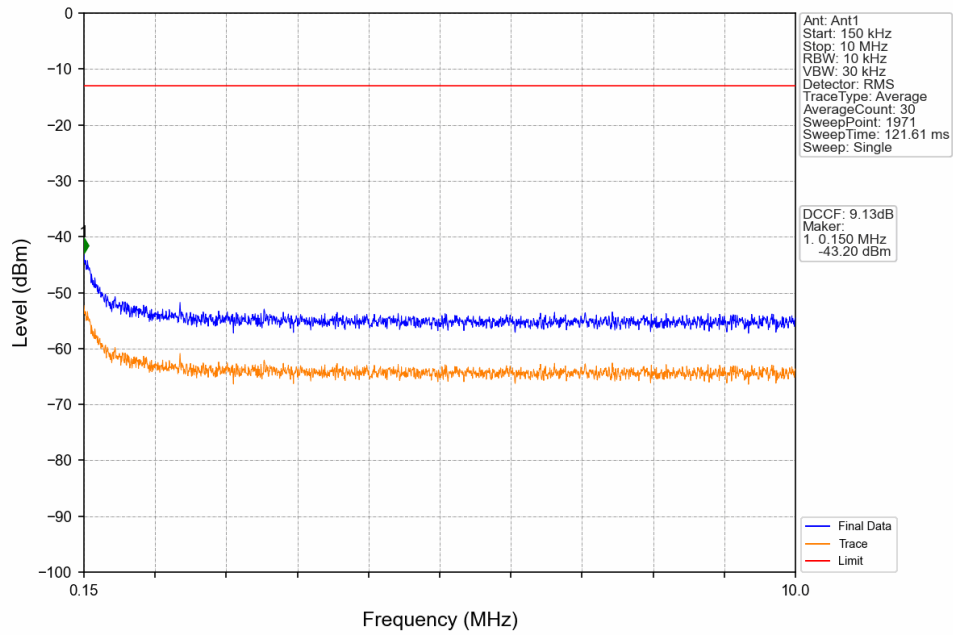
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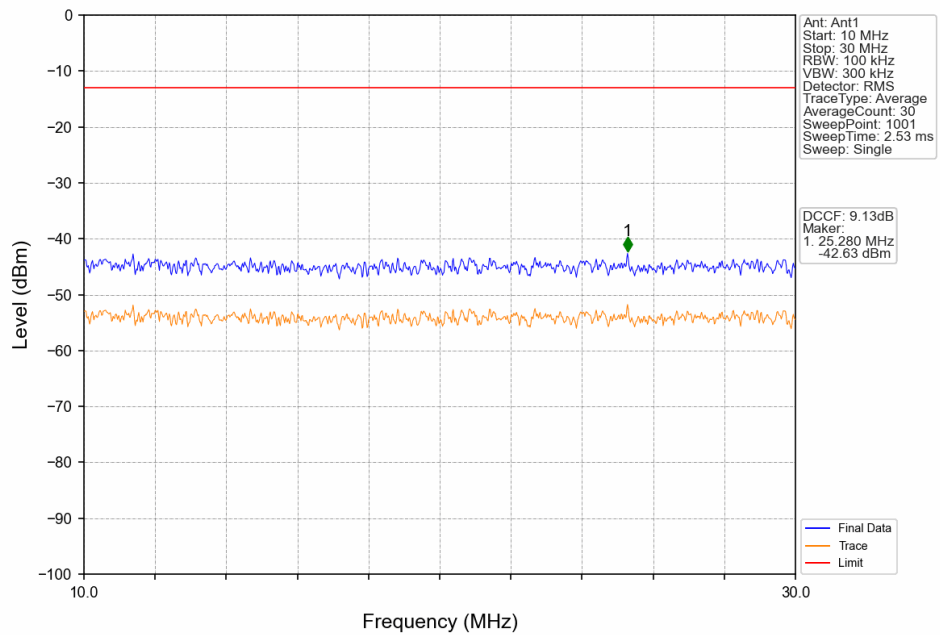
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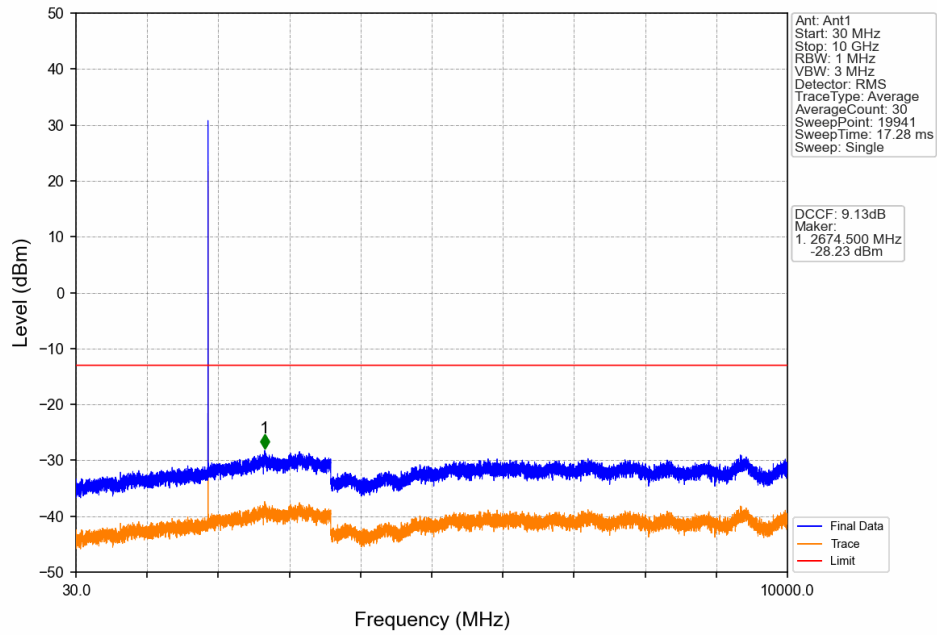
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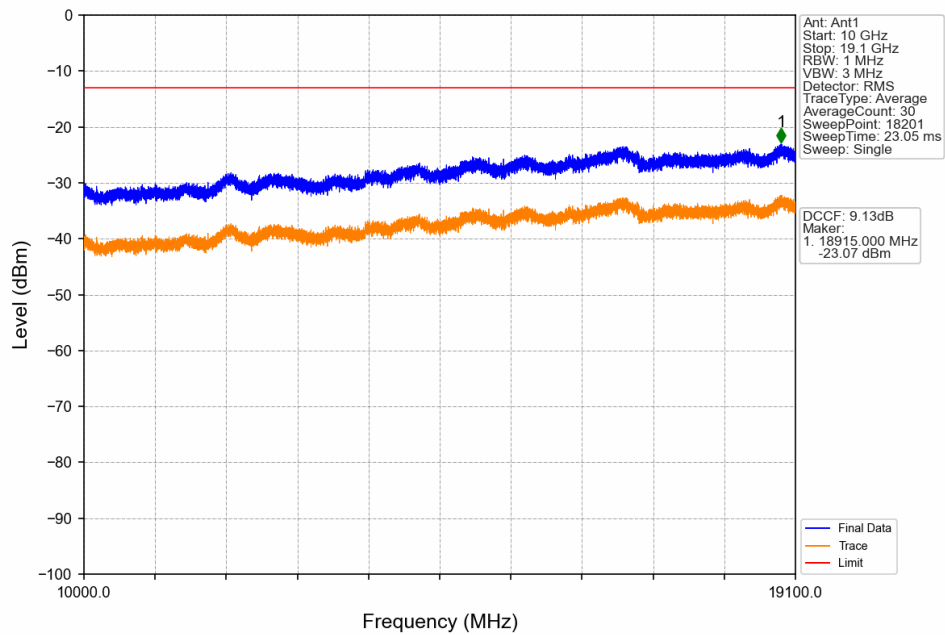
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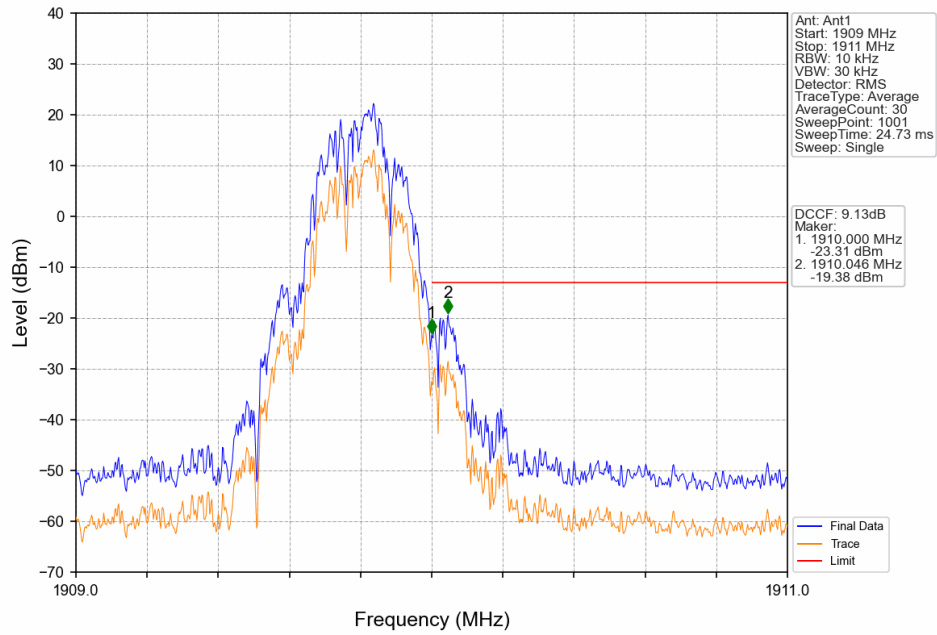
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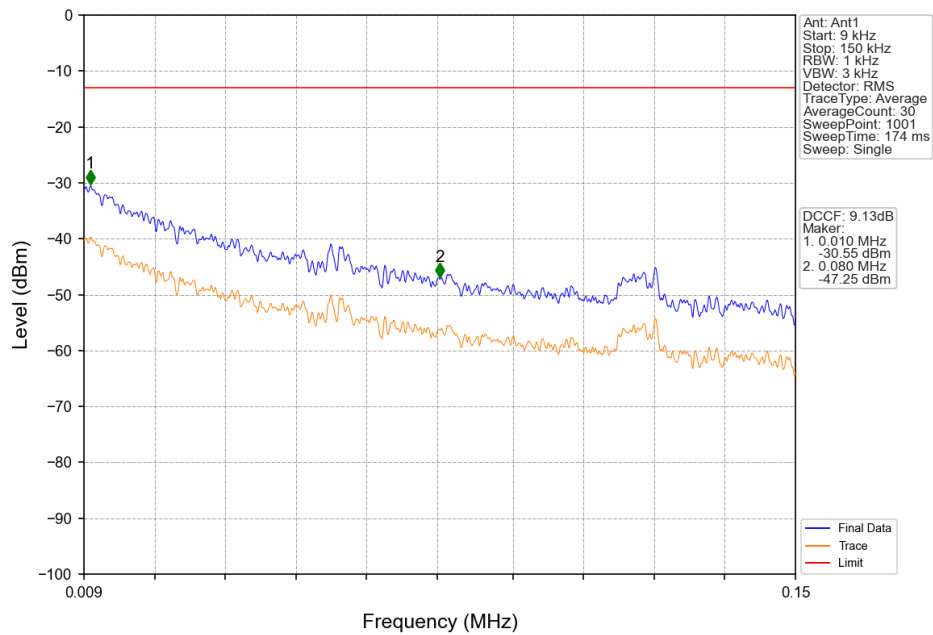
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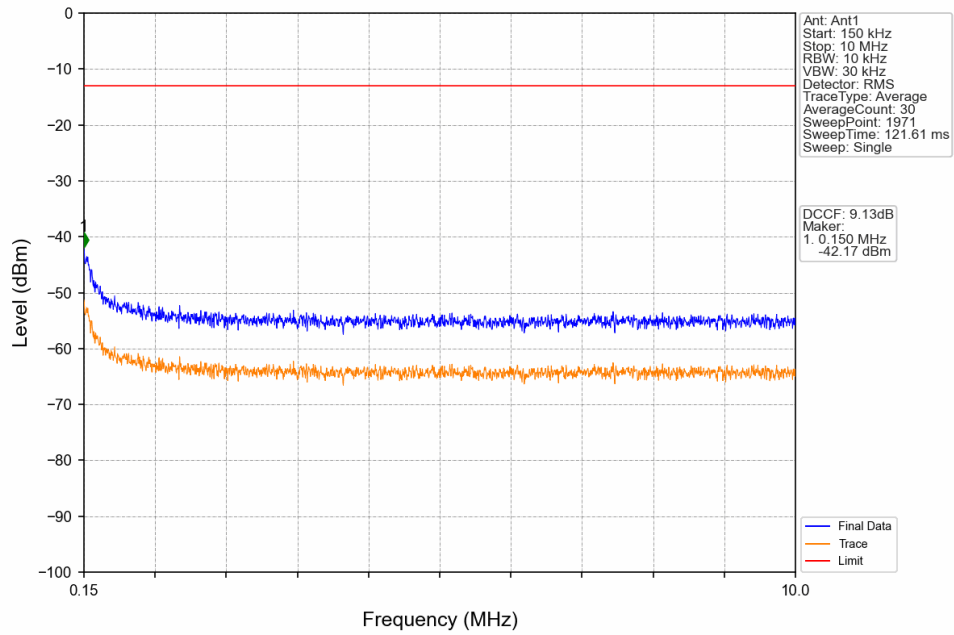
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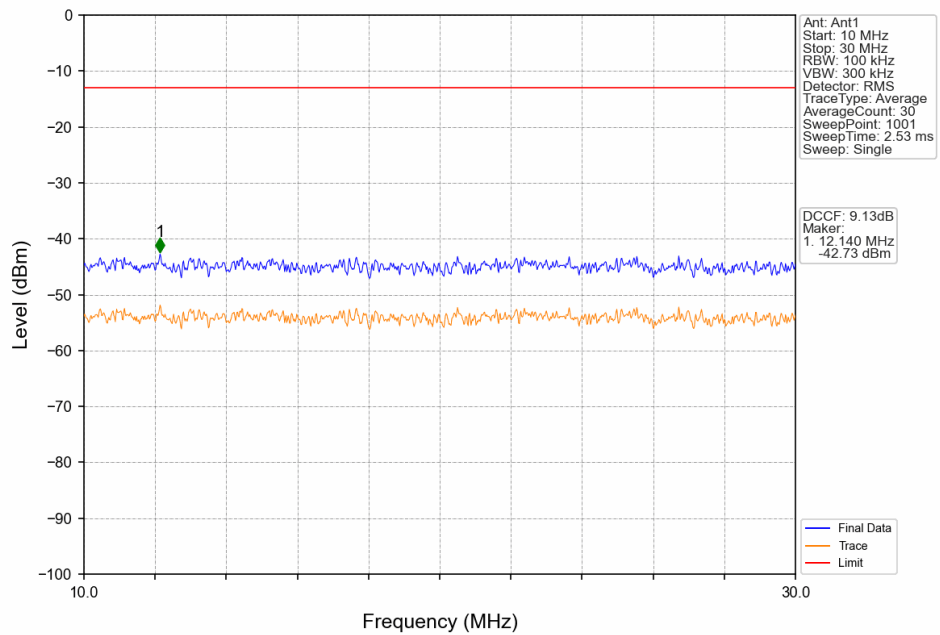
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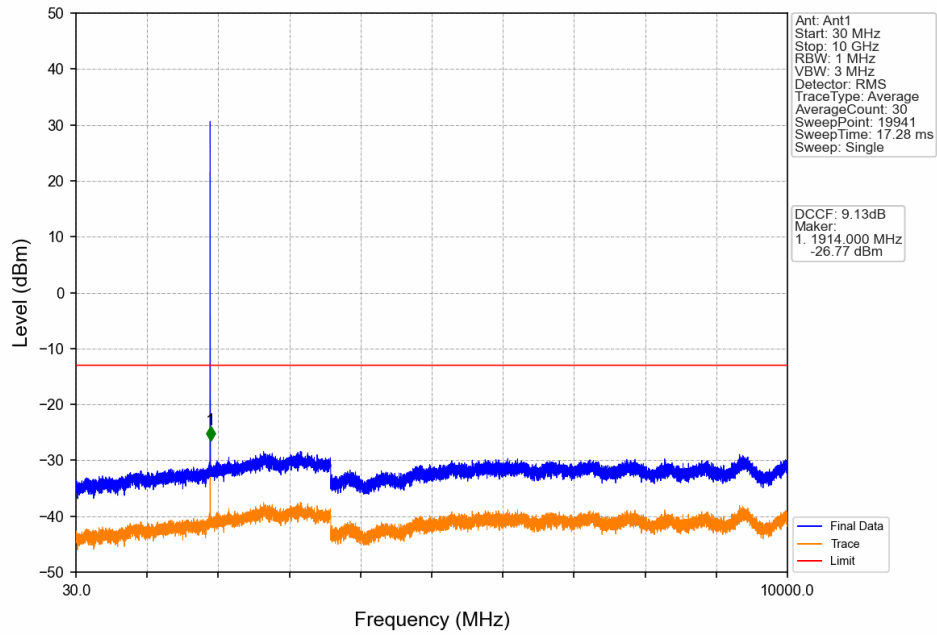
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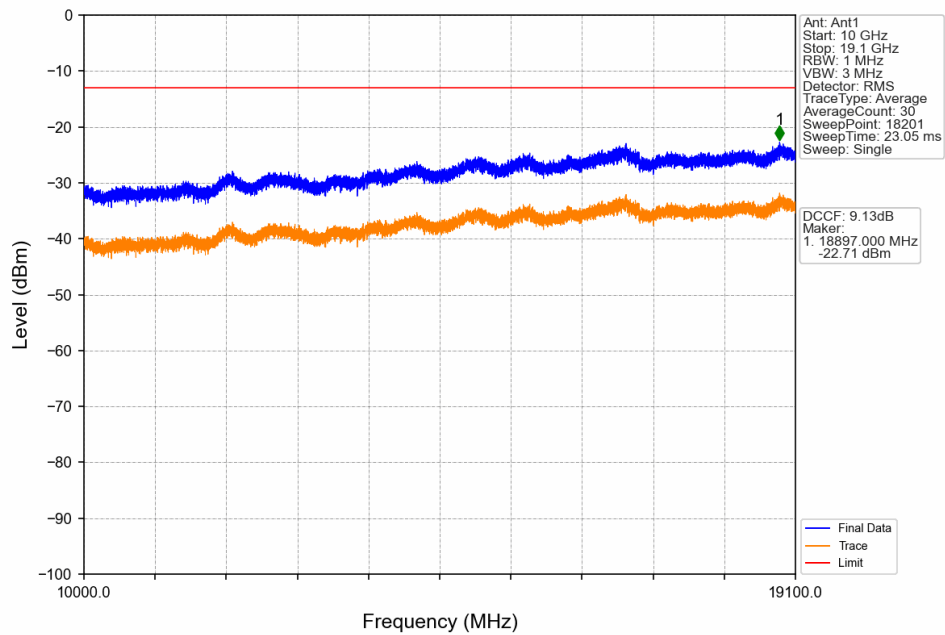
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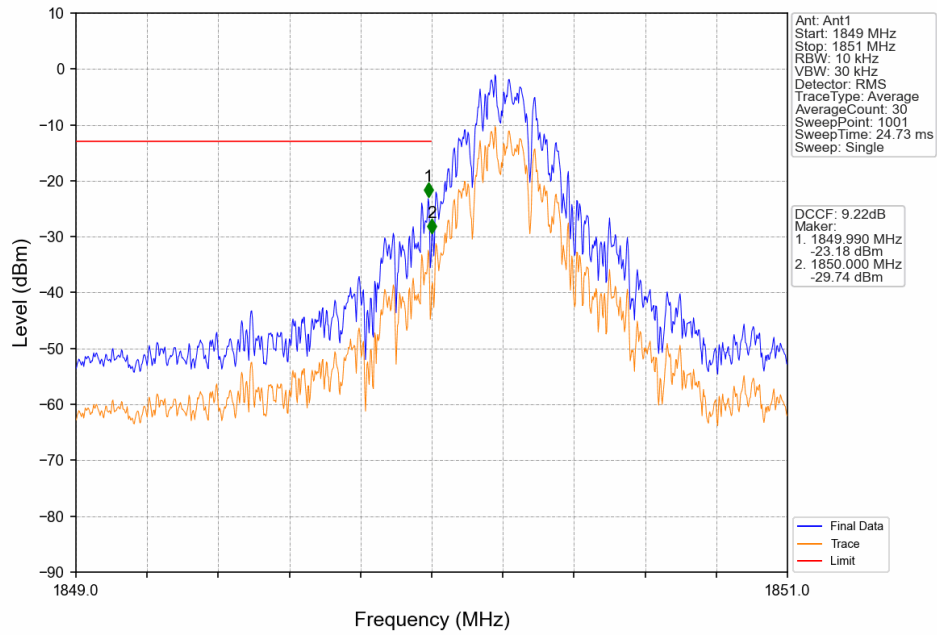
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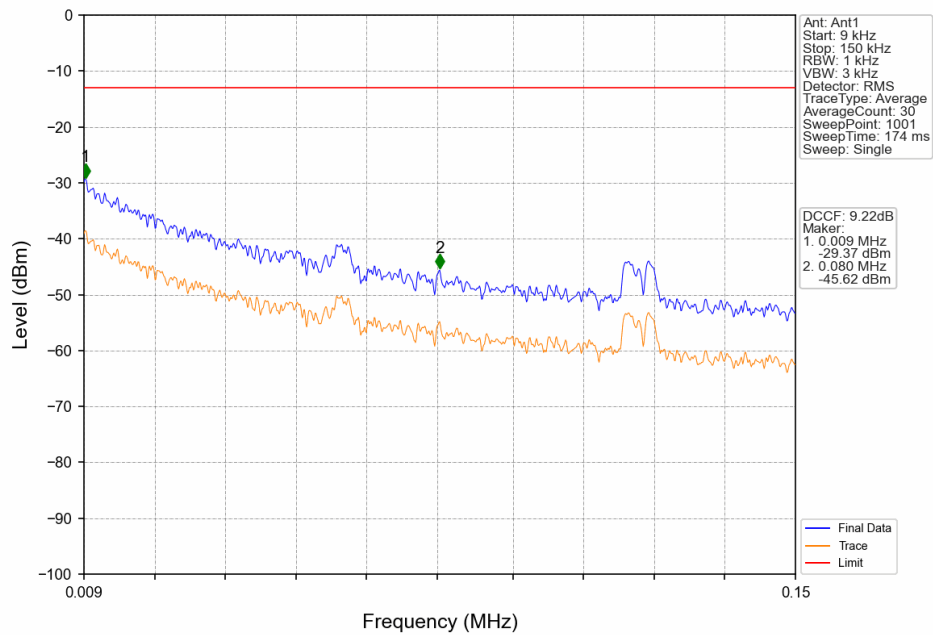
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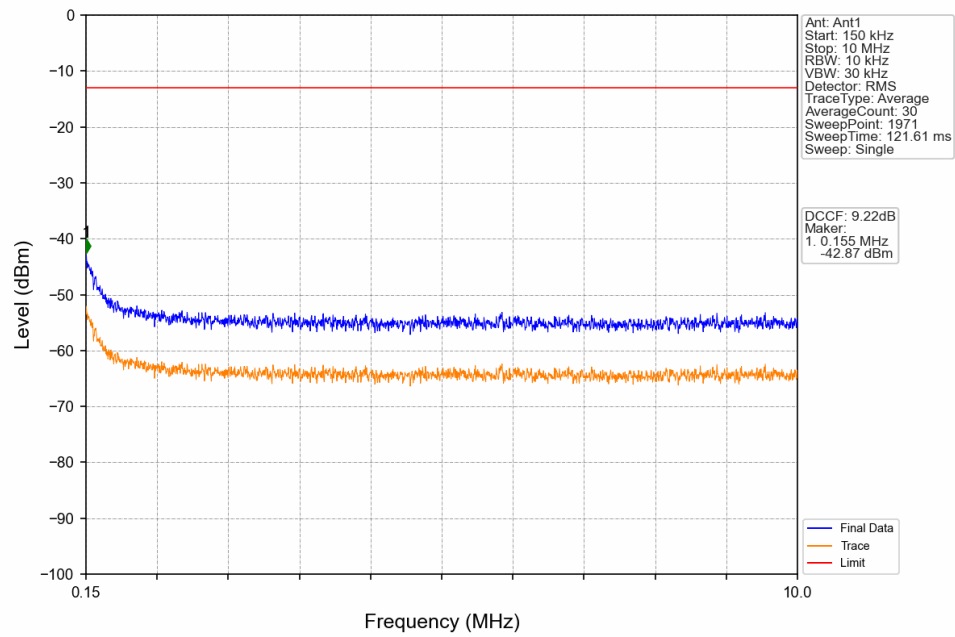
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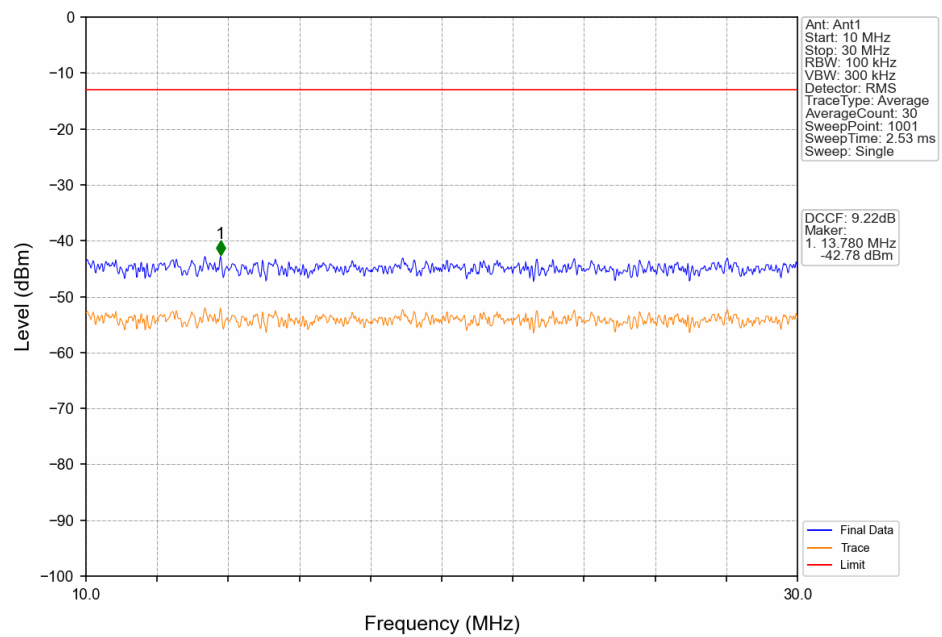
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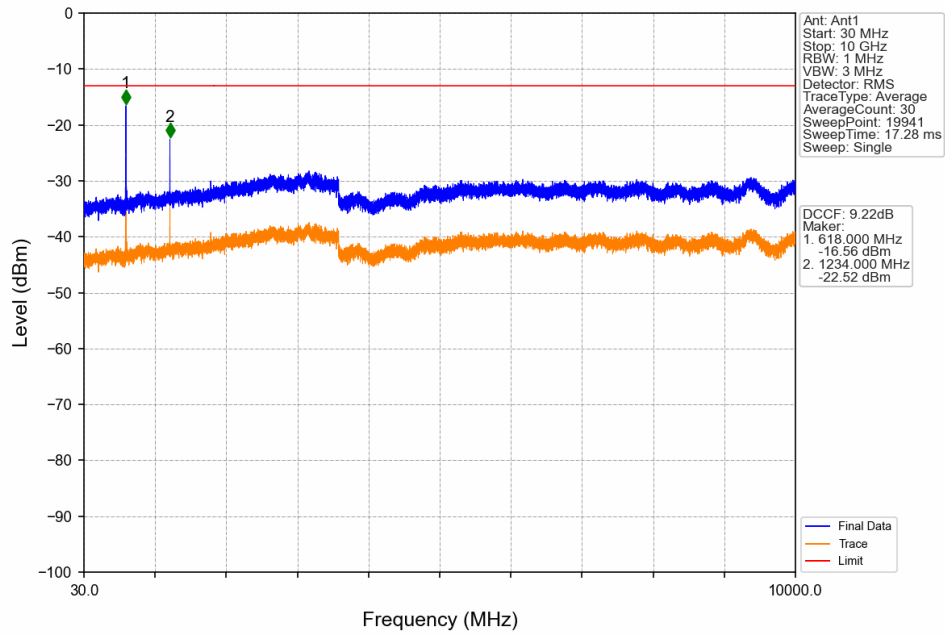
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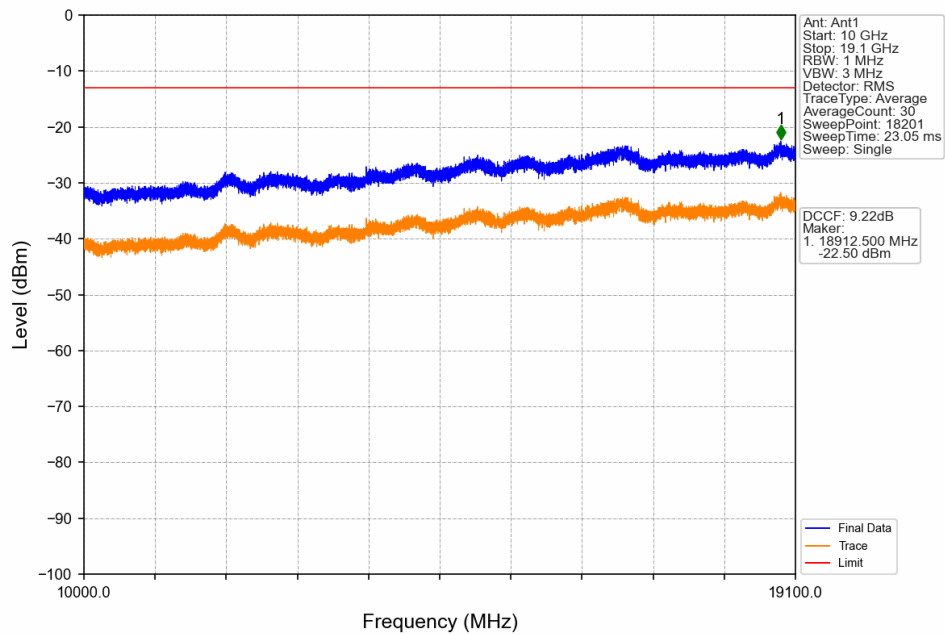
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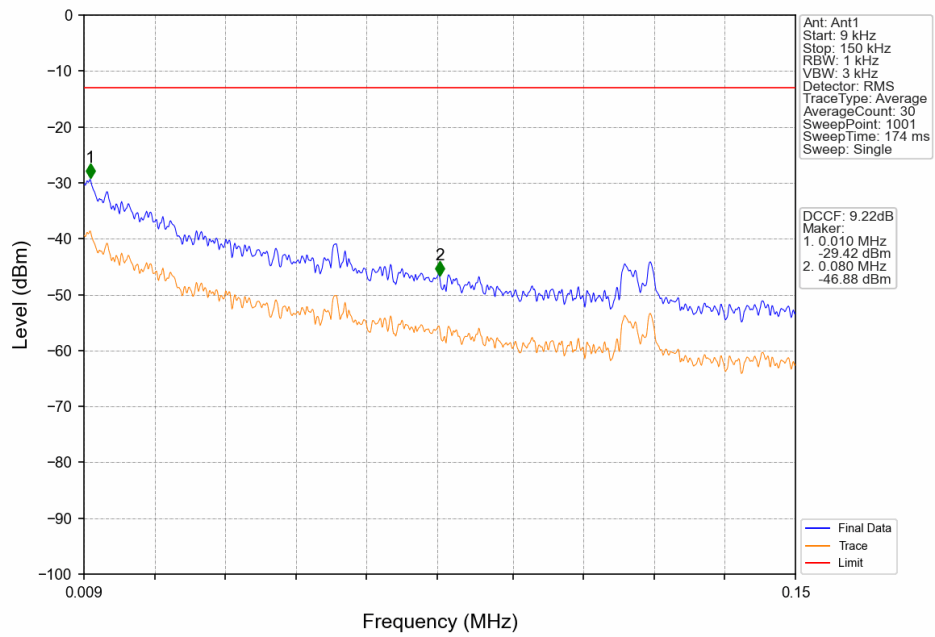
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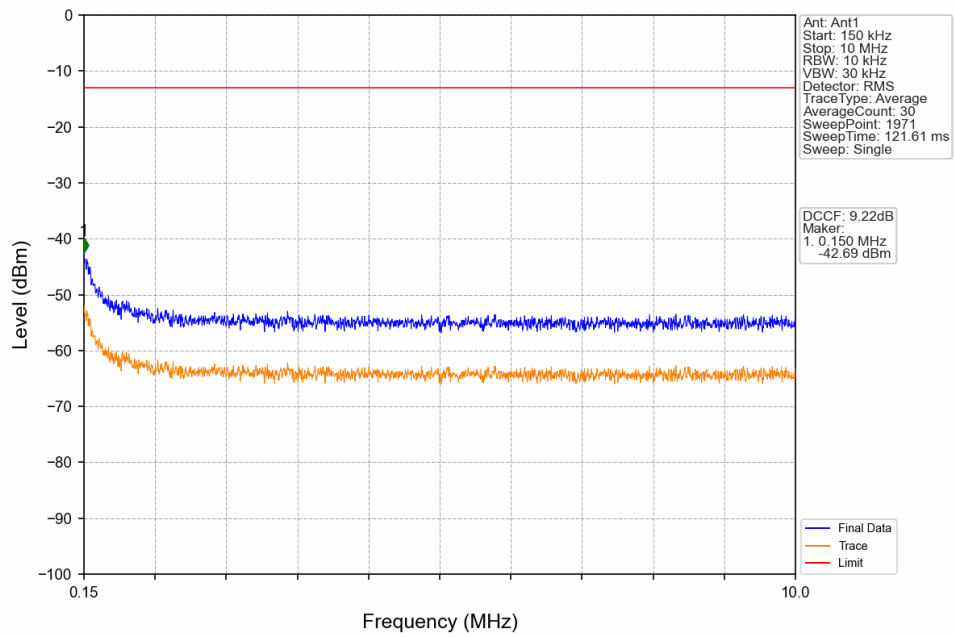
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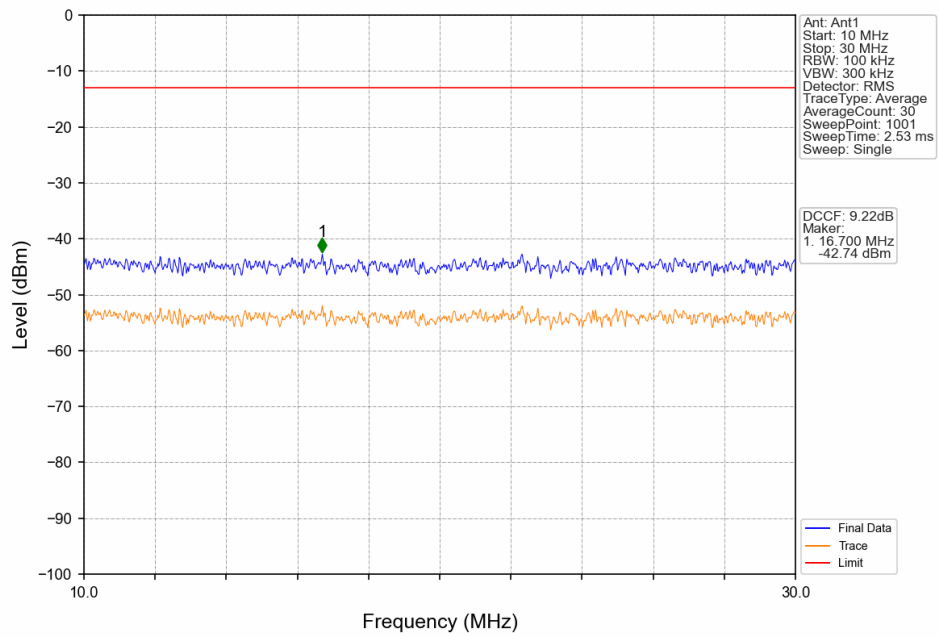
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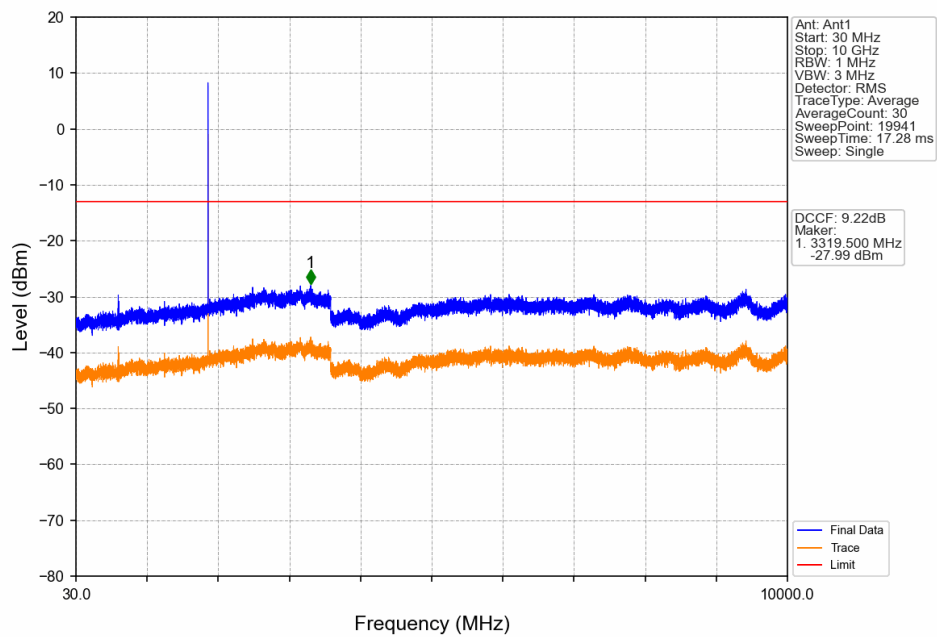
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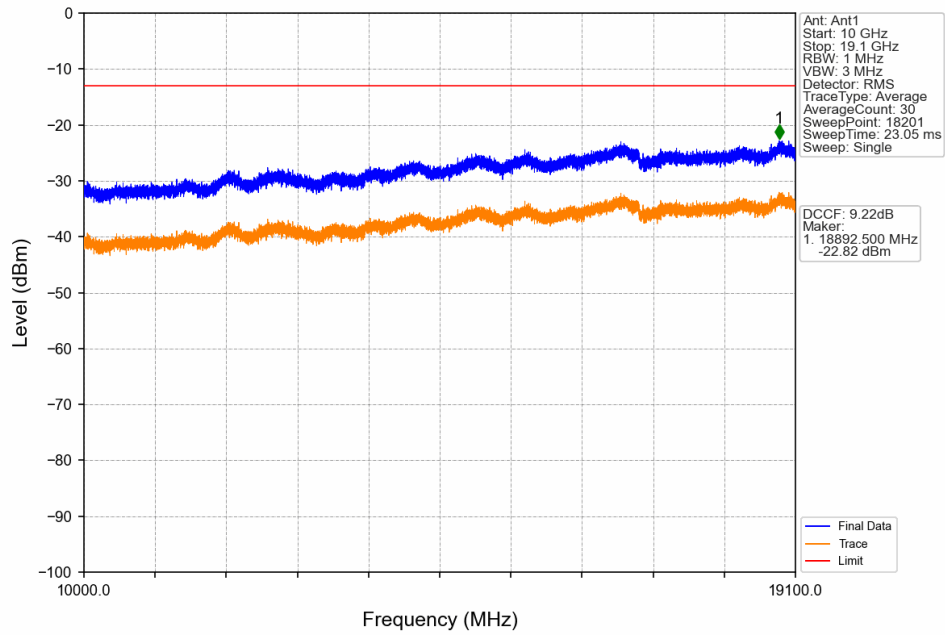
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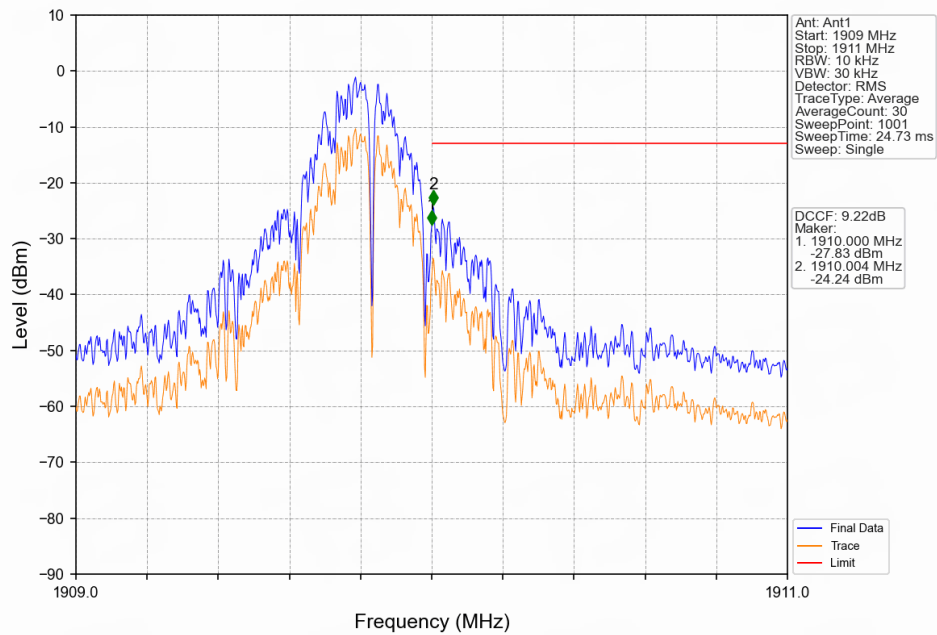
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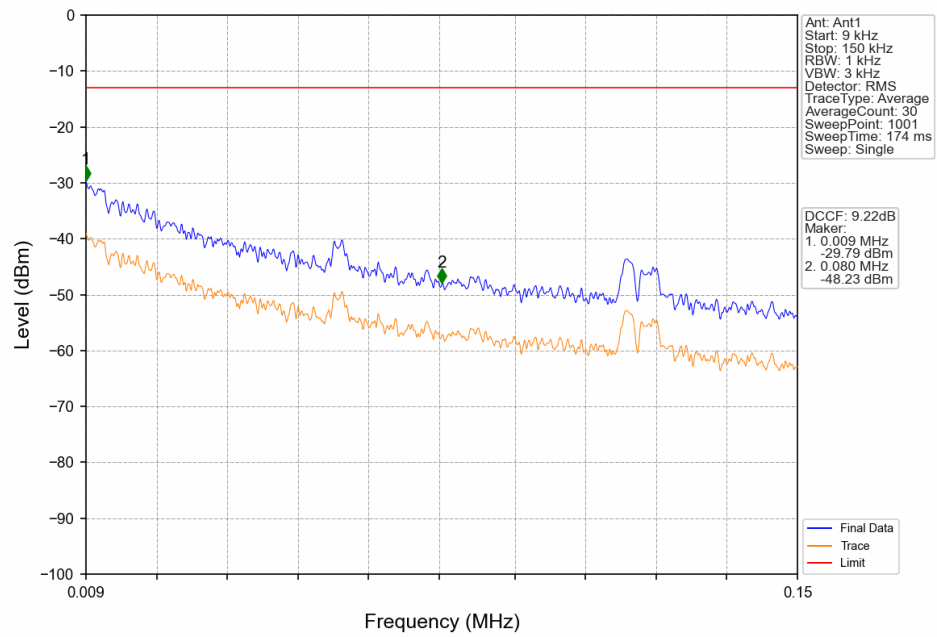
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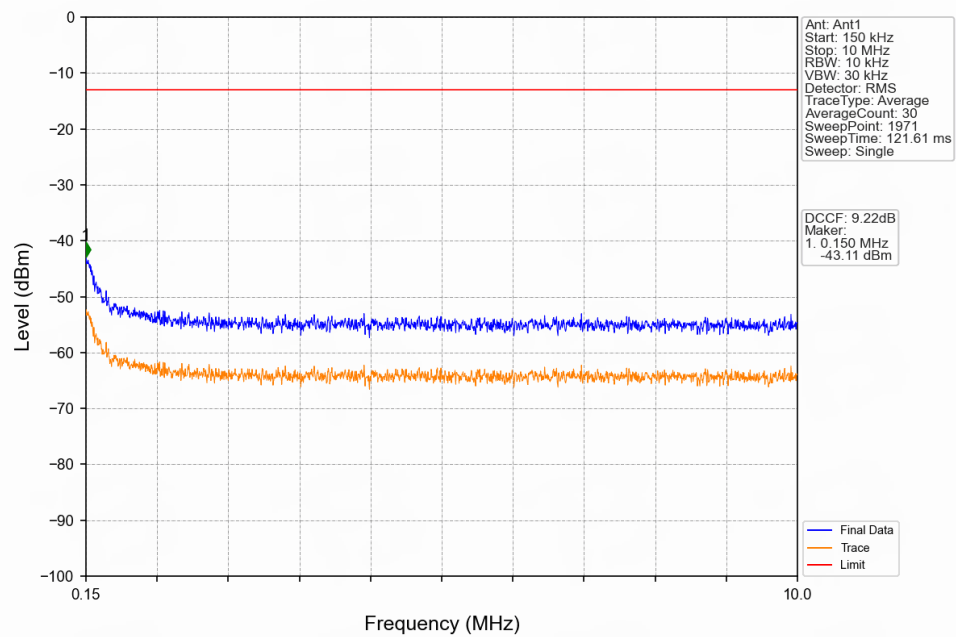
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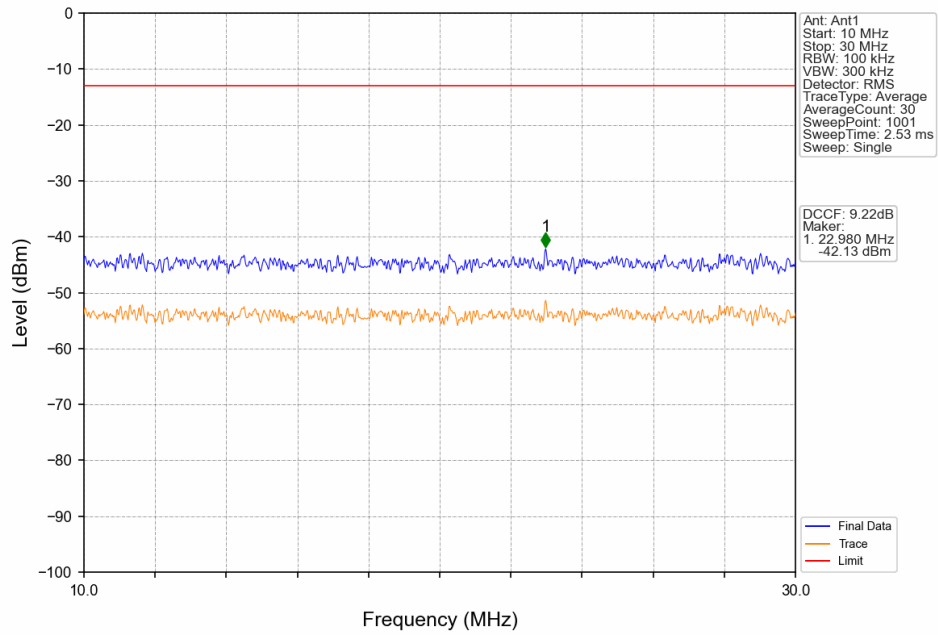
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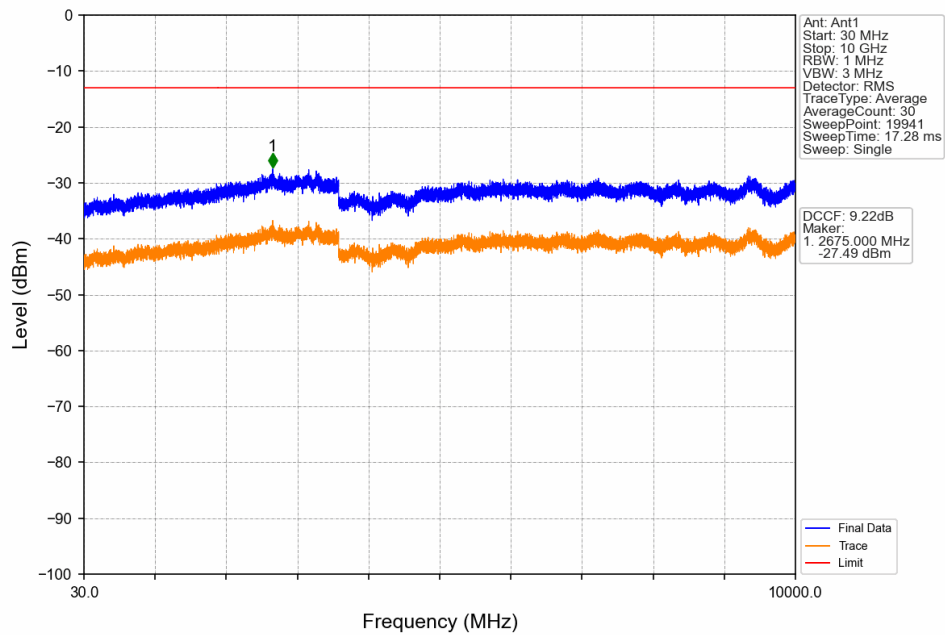
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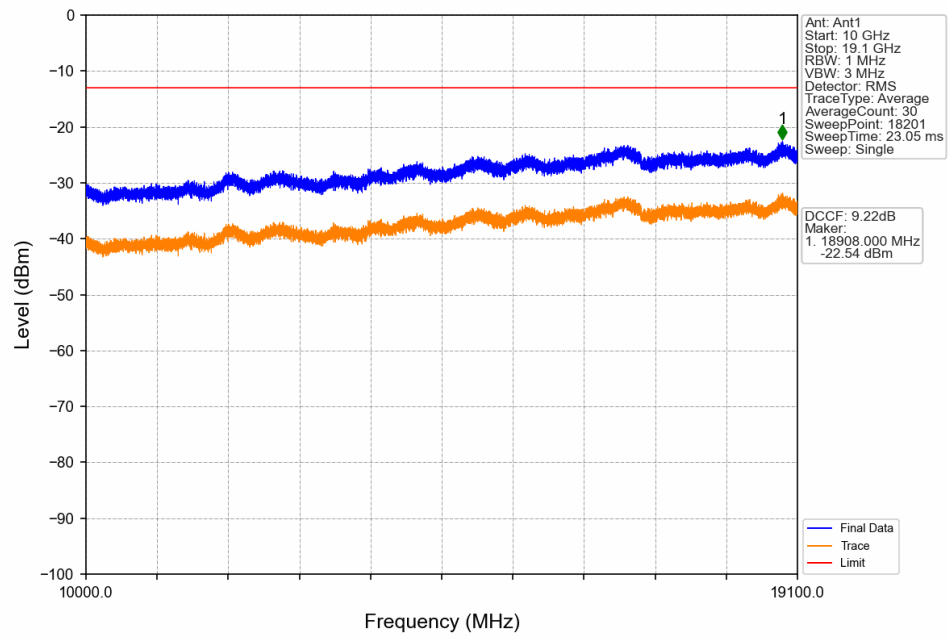
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PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot NTN



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	0.3673	0.0168	ppm	248KGXW	24E	25.65
PCS1900	0.2	1850.2	1909.8	0.6839	0.0185	ppm	269KG7W	24E	28.35

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	0.4159	0.0168	ppm	248KGXW	24E	26.19
PCS1900	0.2	1850.2	1909.8	0.7745	0.0185	ppm	269KG7W	24E	28.89