

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 Band II_EIRP (ANT31)

Band II								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	23.73	-0.03	23.70	<=33.01	Pass
			1880	23.47	-0.03	23.44	<=33.01	Pass
			1907.6	23.43	-0.03	23.40	<=33.01	Pass
	HSDPA	Subtest 1	1852.4	21.93	-0.03	21.90	<=33.01	Pass
		Subtest 2	1852.4	21.95	-0.03	21.92	<=33.01	Pass
		Subtest 3	1852.4	21.92	-0.03	21.89	<=33.01	Pass
		Subtest 4	1852.4	21.93	-0.03	21.90	<=33.01	Pass
		Subtest 1	1880	21.82	-0.03	21.79	<=33.01	Pass
		Subtest 2	1880	21.82	-0.03	21.79	<=33.01	Pass
		Subtest 3	1880	21.81	-0.03	21.78	<=33.01	Pass
		Subtest 4	1880	21.81	-0.03	21.78	<=33.01	Pass
		Subtest 1	1907.6	21.76	-0.03	21.73	<=33.01	Pass
		Subtest 2	1907.6	21.79	-0.03	21.76	<=33.01	Pass
		Subtest 3	1907.6	21.76	-0.03	21.73	<=33.01	Pass
		Subtest 4	1907.6	21.75	-0.03	21.72	<=33.01	Pass
	HSUPA	Subtest 1	1852.4	19.77	-0.03	19.74	<=33.01	Pass
		Subtest 2	1852.4	20.92	-0.03	20.89	<=33.01	Pass
		Subtest 3	1852.4	20.95	-0.03	20.92	<=33.01	Pass
		Subtest 4	1852.4	20.90	-0.03	20.87	<=33.01	Pass
		Subtest 5	1852.4	19.77	-0.03	19.74	<=33.01	Pass
		Subtest 1	1880	20.70	-0.03	20.67	<=33.01	Pass
		Subtest 2	1880	20.95	-0.03	20.92	<=33.01	Pass
		Subtest 3	1880	20.77	-0.03	20.74	<=33.01	Pass
		Subtest 4	1880	19.49	-0.03	19.46	<=33.01	Pass
		Subtest 5	1880	20.70	-0.03	20.67	<=33.01	Pass
		Subtest 1	1907.6	19.30	-0.03	19.27	<=33.01	Pass
		Subtest 2	1907.6	20.87	-0.03	20.84	<=33.01	Pass
		Subtest 3	1907.6	20.70	-0.03	20.67	<=33.01	Pass
		Subtest 4	1907.6	19.44	-0.03	19.41	<=33.01	Pass
		Subtest 5	1907.6	19.30	-0.03	19.27	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Test Result

2.1.1 Band II

Band II							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1852.4	20	3.7	0.948	0.0005	/	Pass
			3.91	0.771	0.0004	/	Pass
			4.4	0.651	0.0004	/	Pass
		-30	3.91	1.604	0.0009	/	Pass
		-20	3.91	1.019	0.0006	/	Pass

		-10	3.91	1.121	0.0006	/	Pass	
		0	3.91	0.908	0.0005	/	Pass	
		10	3.91	0.628	0.0003	/	Pass	
		30	3.91	0.972	0.0005	/	Pass	
		40	3.91	0.164	0.0001	/	Pass	
		50	3.91	0.072	0.0000	/	Pass	
	1880	20	3.7	-3.681	-0.0020	/	Pass	
			3.91	-2.053	-0.0011	/	Pass	
			4.4	-2.798	-0.0015	/	Pass	
		-30	3.91	-2.248	-0.0012	/	Pass	
		-20	3.91	-2.694	-0.0014	/	Pass	
		-10	3.91	-2.844	-0.0015	/	Pass	
		0	3.91	-2.167	-0.0012	/	Pass	
		10	3.91	-2.476	-0.0013	/	Pass	
		30	3.91	-3.003	-0.0016	/	Pass	
		40	3.91	-2.680	-0.0014	/	Pass	
		50	3.91	-2.815	-0.0015	/	Pass	
	1907.6	20	3.7	-6.319	-0.0033	/	Pass	
			3.91	-6.289	-0.0033	/	Pass	
			4.4	-6.218	-0.0033	/	Pass	
		-30	3.91	-6.461	-0.0034	/	Pass	
		-20	3.91	-6.225	-0.0033	/	Pass	
		-10	3.91	-6.637	-0.0035	/	Pass	
		0	3.91	-6.436	-0.0034	/	Pass	
		10	3.91	-6.119	-0.0032	/	Pass	
		30	3.91	-6.680	-0.0035	/	Pass	
		40	3.91	-6.475	-0.0034	/	Pass	
		50	3.91	-5.966	-0.0031	/	Pass	
	HSDPA	1852.4	20	3.7	1.032	0.0006	/	Pass
				3.91	0.861	0.0005	/	Pass
				4.4	0.824	0.0004	/	Pass
			-30	3.91	0.723	0.0004	/	Pass
			-20	3.91	0.345	0.0002	/	Pass
-10			3.91	1.157	0.0006	/	Pass	
0			3.91	1.055	0.0006	/	Pass	
10			3.91	0.808	0.0004	/	Pass	
30			3.91	0.836	0.0005	/	Pass	
40			3.91	0.265	0.0001	/	Pass	
50			3.91	0.746	0.0004	/	Pass	
1880		20	3.7	-2.623	-0.0014	/	Pass	
			3.91	-2.511	-0.0013	/	Pass	
			4.4	-3.006	-0.0016	/	Pass	
		-30	3.91	-2.902	-0.0015	/	Pass	
		-20	3.91	-2.793	-0.0015	/	Pass	
		-10	3.91	-2.331	-0.0012	/	Pass	
		0	3.91	-2.656	-0.0014	/	Pass	
		10	3.91	-1.682	-0.0009	/	Pass	
		30	3.91	-2.873	-0.0015	/	Pass	
		40	3.91	-2.307	-0.0012	/	Pass	
		50	3.91	-2.498	-0.0013	/	Pass	
1907.6		20	3.7	-6.088	-0.0032	/	Pass	
			3.91	-6.647	-0.0035	/	Pass	
			4.4	-5.937	-0.0031	/	Pass	
		-30	3.91	-6.744	-0.0035	/	Pass	
		-20	3.91	-6.998	-0.0037	/	Pass	
		-10	3.91	-6.443	-0.0034	/	Pass	
		0	3.91	-6.431	-0.0034	/	Pass	
		10	3.91	-6.483	-0.0034	/	Pass	
		30	3.91	-6.279	-0.0033	/	Pass	

HSUPA		40	3.91	-6.573	-0.0034	/	Pass
		50	3.91	-6.800	-0.0036	/	Pass
	1852.4	20	3.7	0.996	0.0005	/	Pass
			3.91	0.756	0.0004	/	Pass
			4.4	2.581	0.0014	/	Pass
		-30	3.91	1.856	0.0010	/	Pass
		-20	3.91	2.181	0.0012	/	Pass
		-10	3.91	1.339	0.0007	/	Pass
		0	3.91	1.538	0.0008	/	Pass
		10	3.91	2.040	0.0011	/	Pass
		30	3.91	1.434	0.0008	/	Pass
		40	3.91	1.758	0.0009	/	Pass
		50	3.91	1.377	0.0007	/	Pass
	1880	20	3.7	-2.650	-0.0014	/	Pass
			3.91	-2.483	-0.0013	/	Pass
			4.4	-2.265	-0.0012	/	Pass
		-30	3.91	-2.447	-0.0013	/	Pass
		-20	3.91	-2.650	-0.0014	/	Pass
		-10	3.91	-1.896	-0.0010	/	Pass
		0	3.91	-2.508	-0.0013	/	Pass
		10	3.91	-2.560	-0.0014	/	Pass
		30	3.91	-1.617	-0.0009	/	Pass
		40	3.91	-2.209	-0.0012	/	Pass
		50	3.91	-3.064	-0.0016	/	Pass
	1907.6	20	3.7	-4.609	-0.0024	/	Pass
			3.91	-6.146	-0.0032	/	Pass
			4.4	-4.922	-0.0026	/	Pass
		-30	3.91	-5.433	-0.0028	/	Pass
		-20	3.91	-4.787	-0.0025	/	Pass
		-10	3.91	-5.722	-0.0030	/	Pass
		0	3.91	-6.524	-0.0034	/	Pass
		10	3.91	-5.950	-0.0031	/	Pass
		30	3.91	-6.559	-0.0034	/	Pass
		40	3.91	-5.666	-0.0030	/	Pass
		50	3.91	-5.497	-0.0029	/	Pass

4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band II_OBW

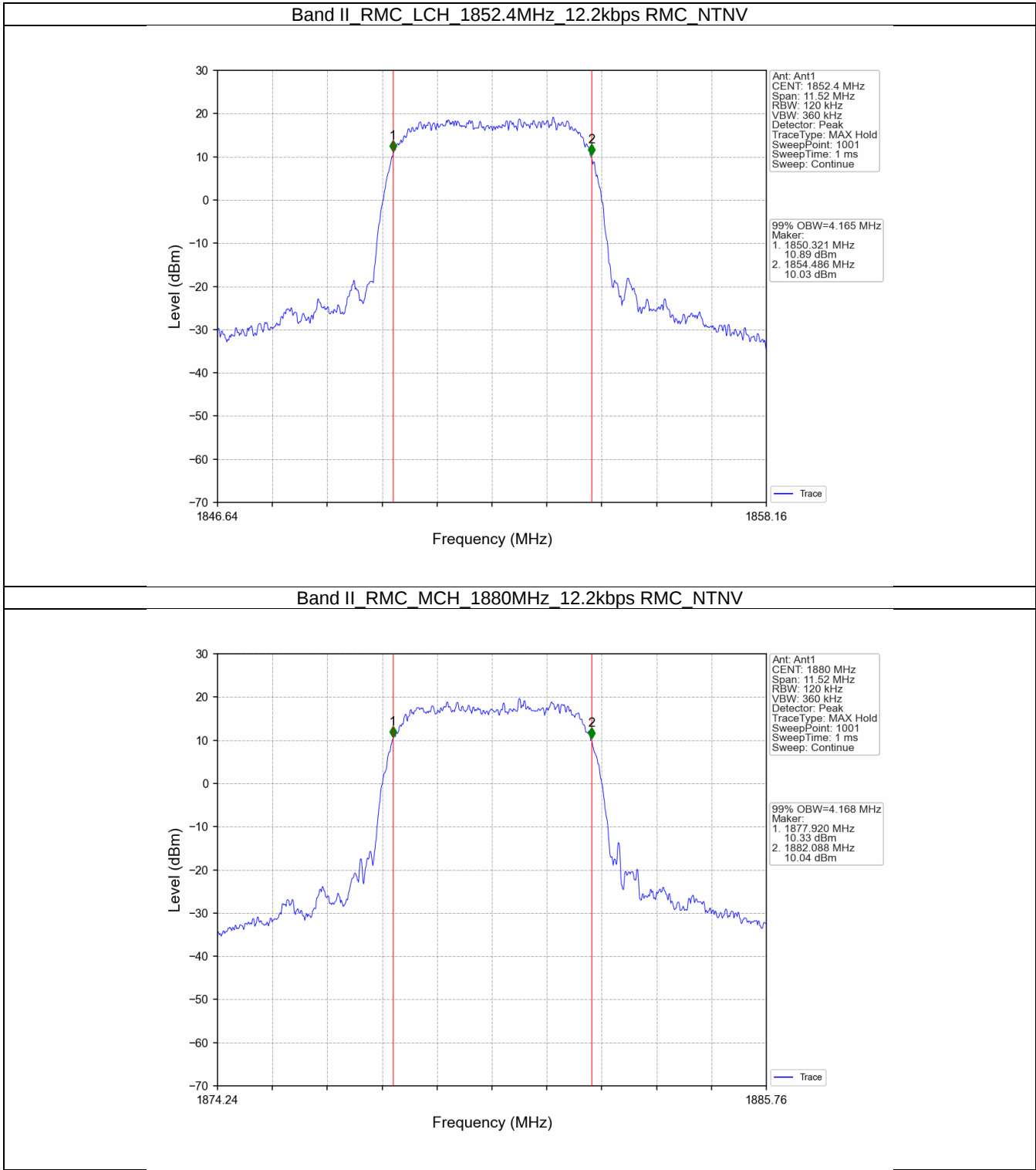
Band II						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	4.165	/	Pass
			1880	4.168	/	Pass
			1907.6	4.158	/	Pass
	HSDPA	Subtest 1	1852.4	4.182	/	Pass
			1880	4.170	/	Pass
			1907.6	4.166	/	Pass
	HSUPA	Subtest 1	1852.4	4.160	/	Pass
			1880	4.181	/	Pass
			1907.6	4.163	/	Pass

4.1.2 Band II_XDB

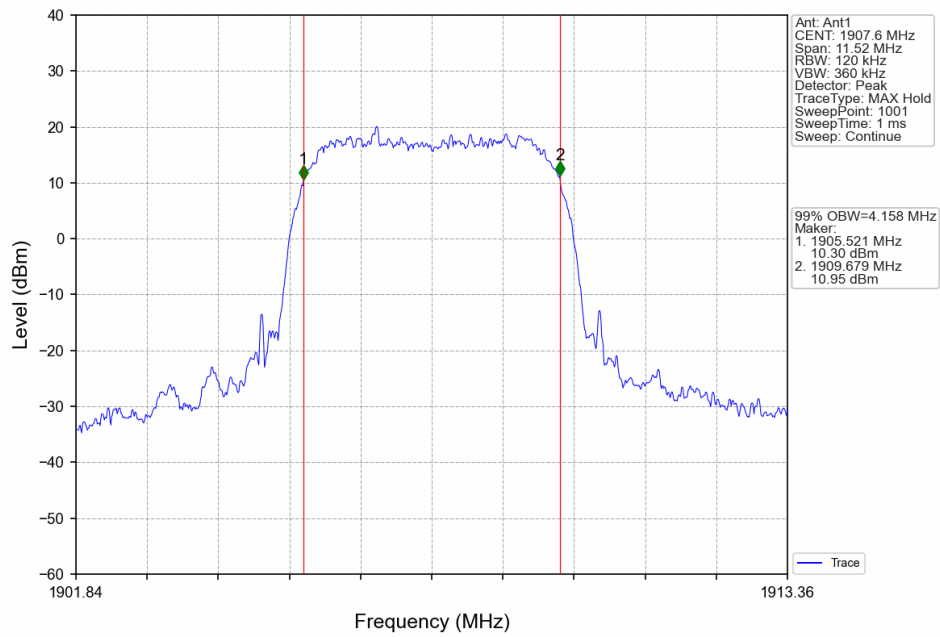
Band II						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	4.763	/	Pass
			1880	4.763	/	Pass
			1907.6	4.741	/	Pass
	HSDPA	Subtest 1	1852.4	4.773	/	Pass
			1880	4.768	/	Pass
			1907.6	4.759	/	Pass
	HSUPA	Subtest 1	1852.4	4.758	/	Pass
			1880	4.784	/	Pass
			1907.6	4.766	/	Pass

4.2 Test Graph

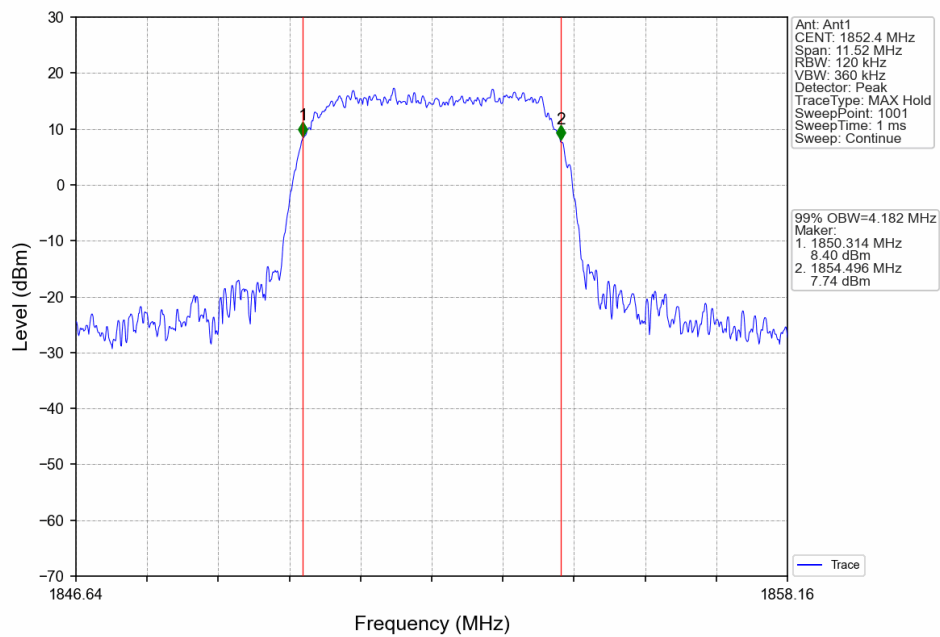
4.2.1 Band II_OBW



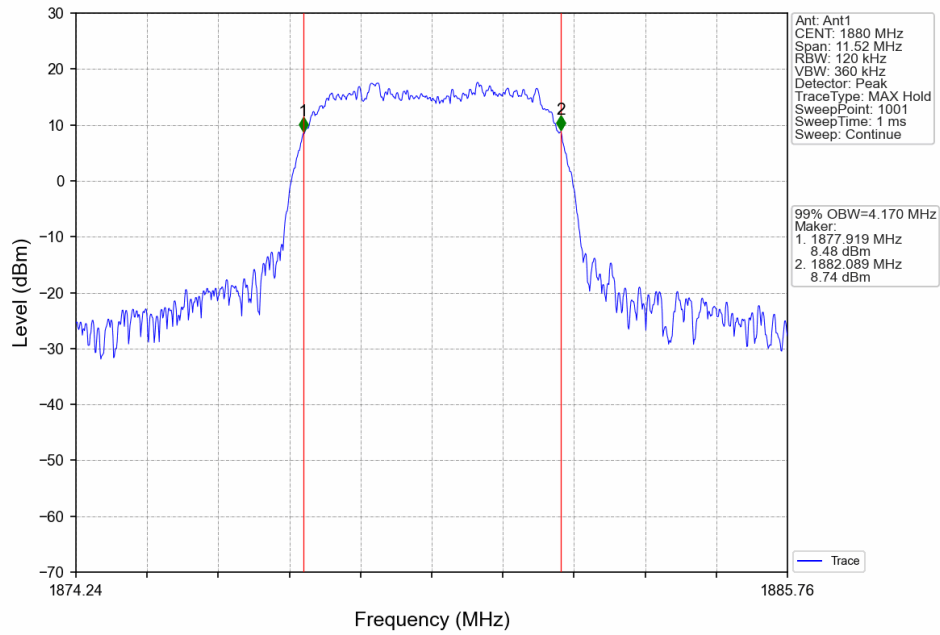
Band II_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



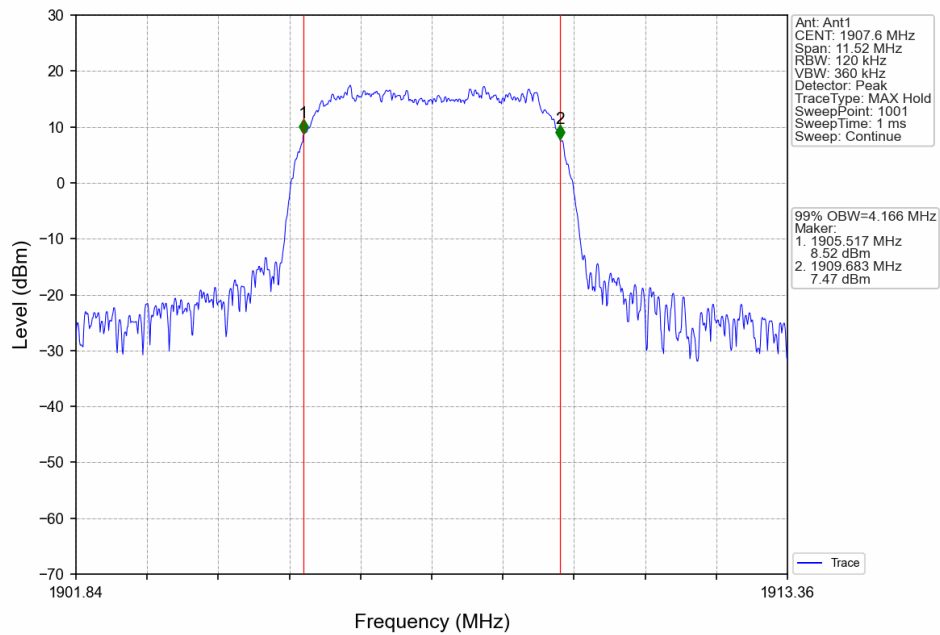
Band II_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



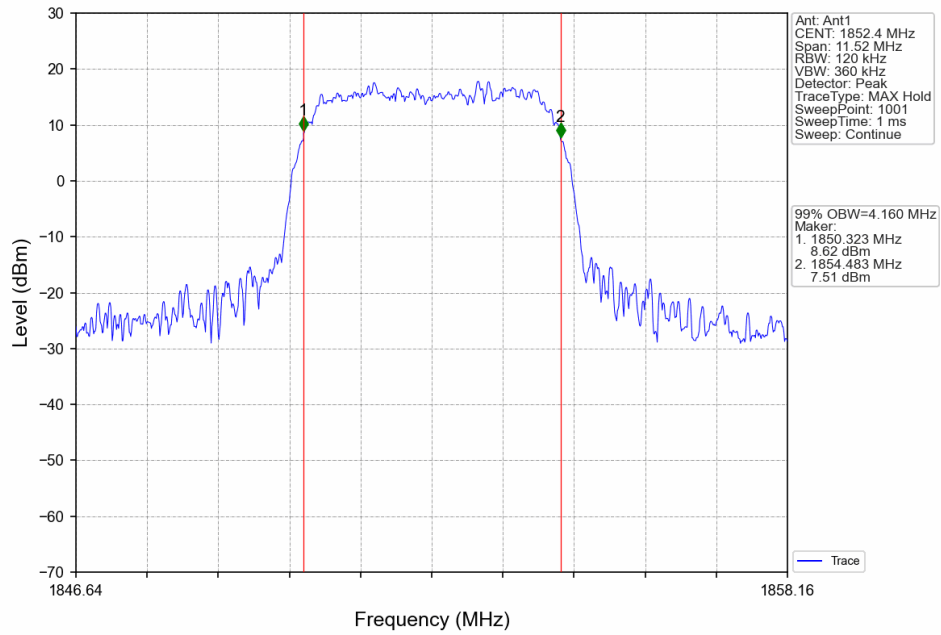
Band II_HSDPA_MCH_1880MHz_Subtest 1_NTNV



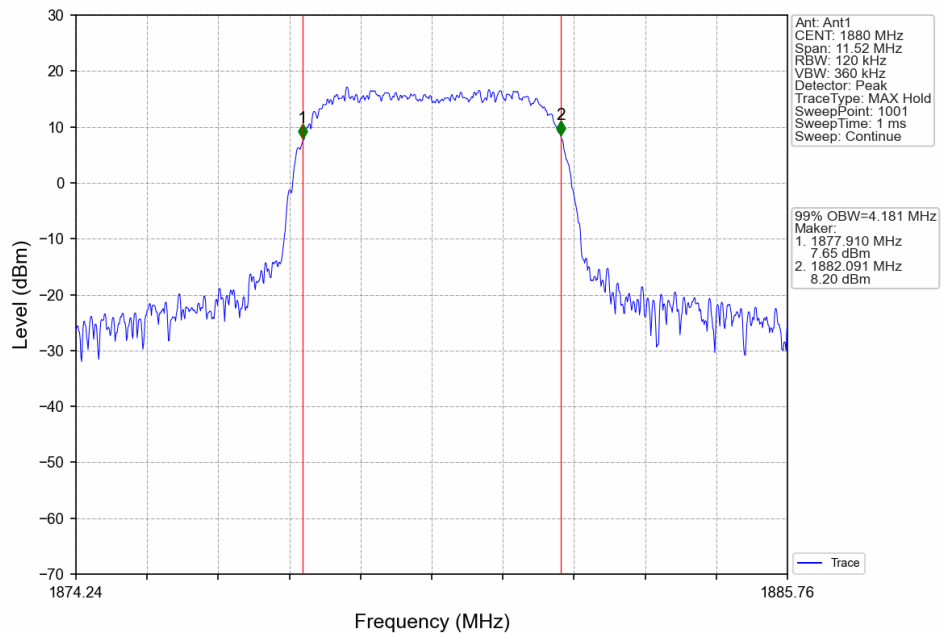
Band II_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



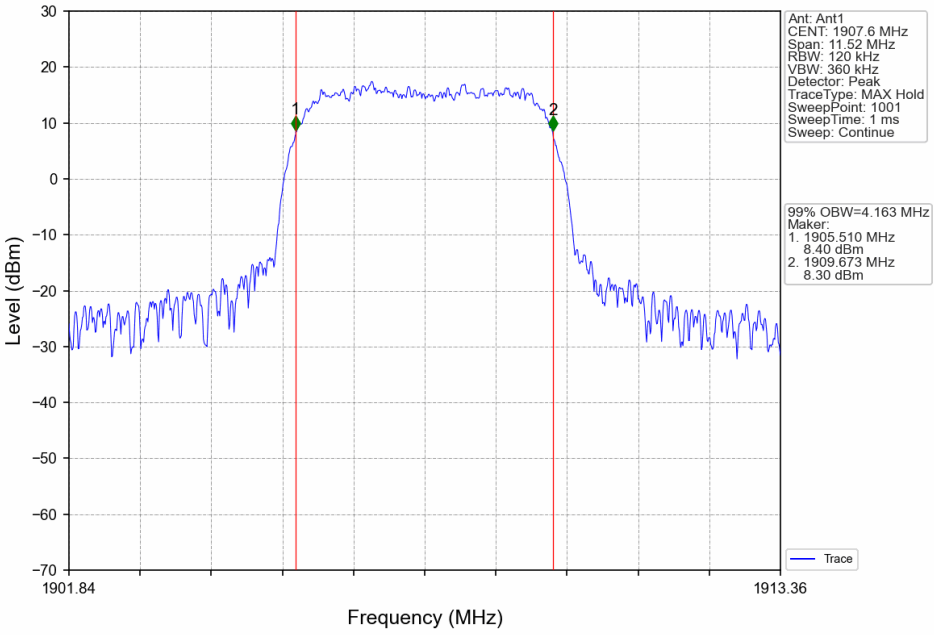
Band II_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



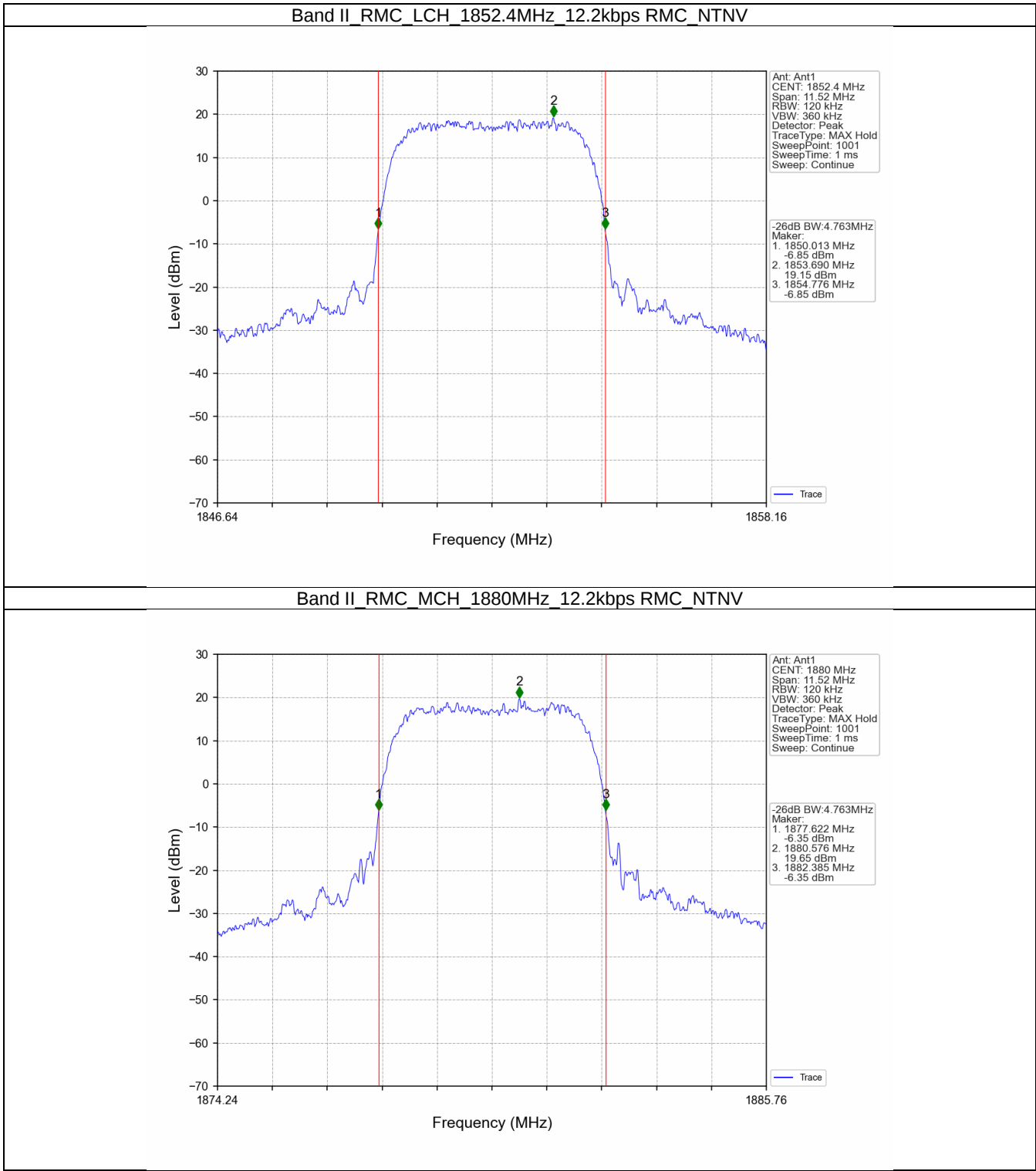
Band II_HSUPA_MCH_1880MHz_Subtest 1_NTNV



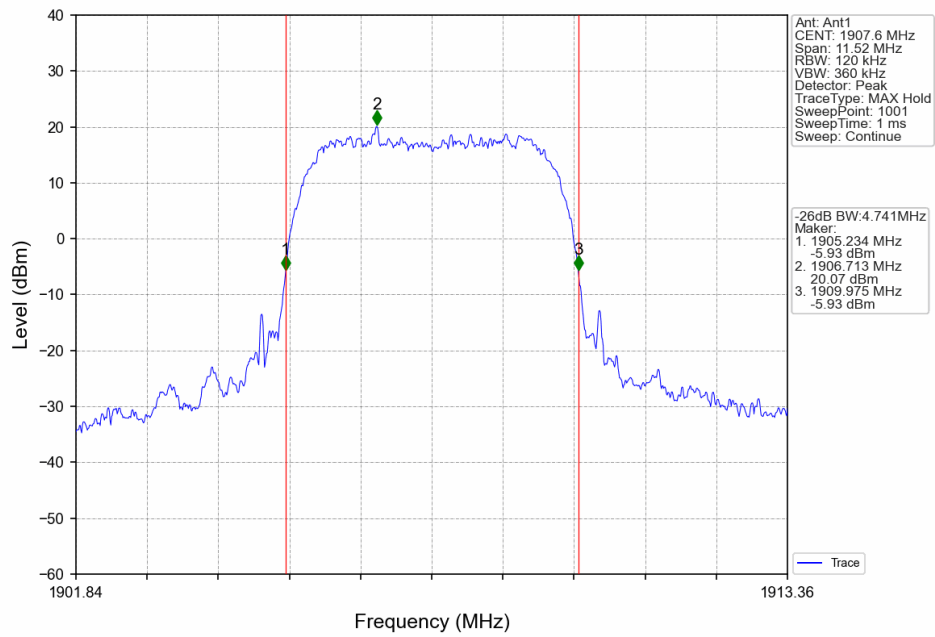
Band II_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



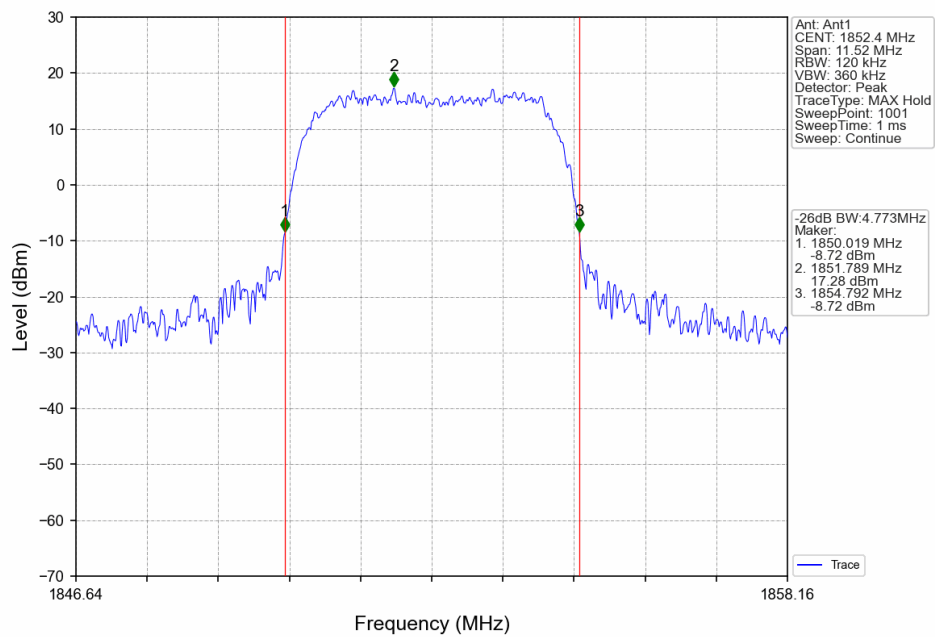
4.2.2 Band II_XDB



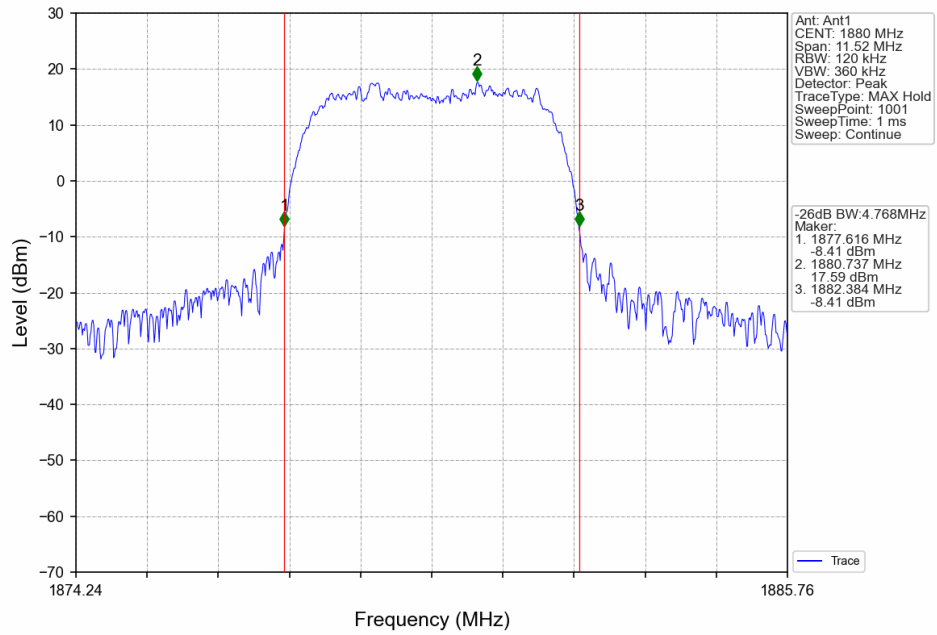
Band II_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



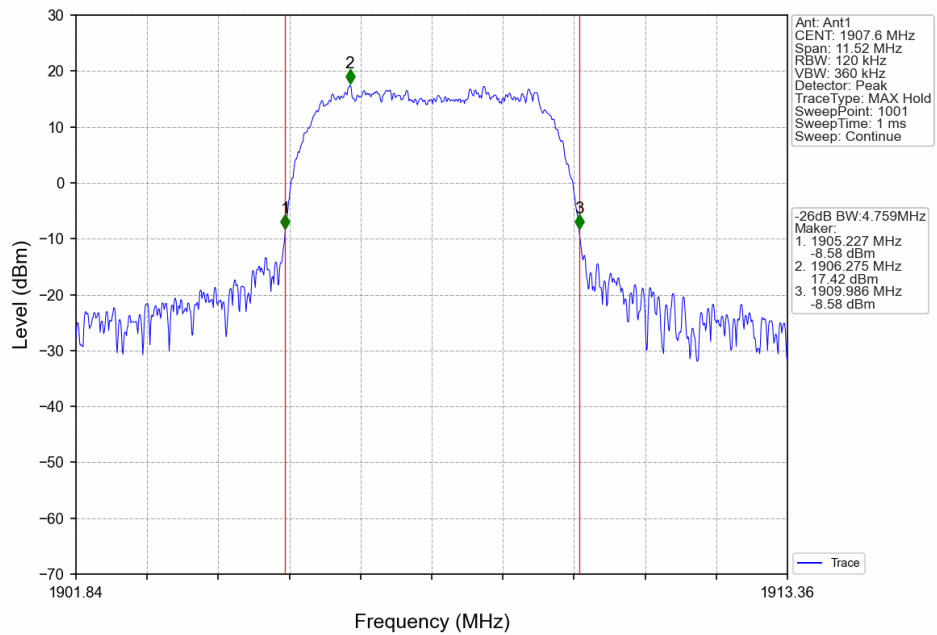
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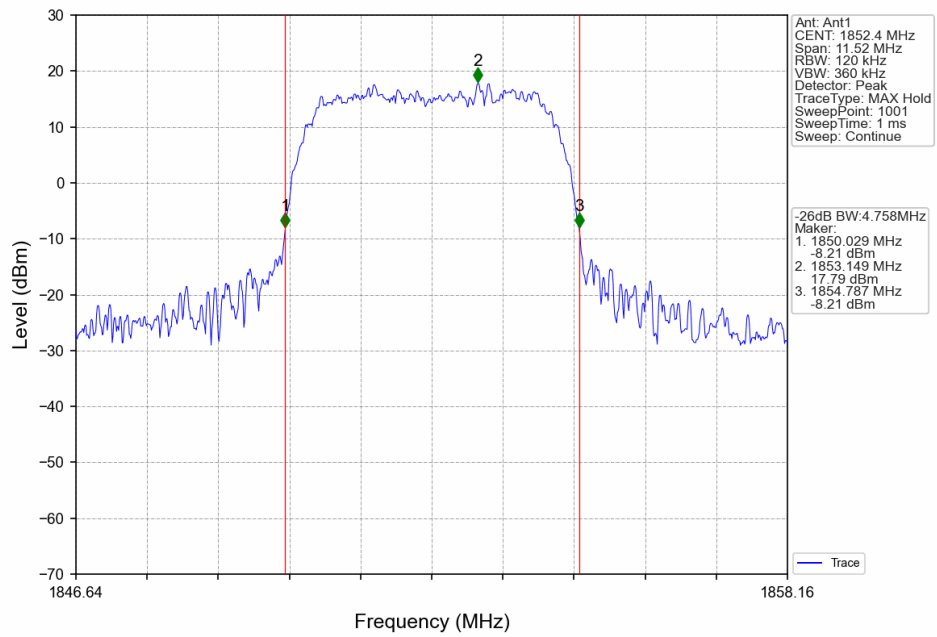
Band II_HSDPA_MCH_1880MHz_Subtest 1_NTNV



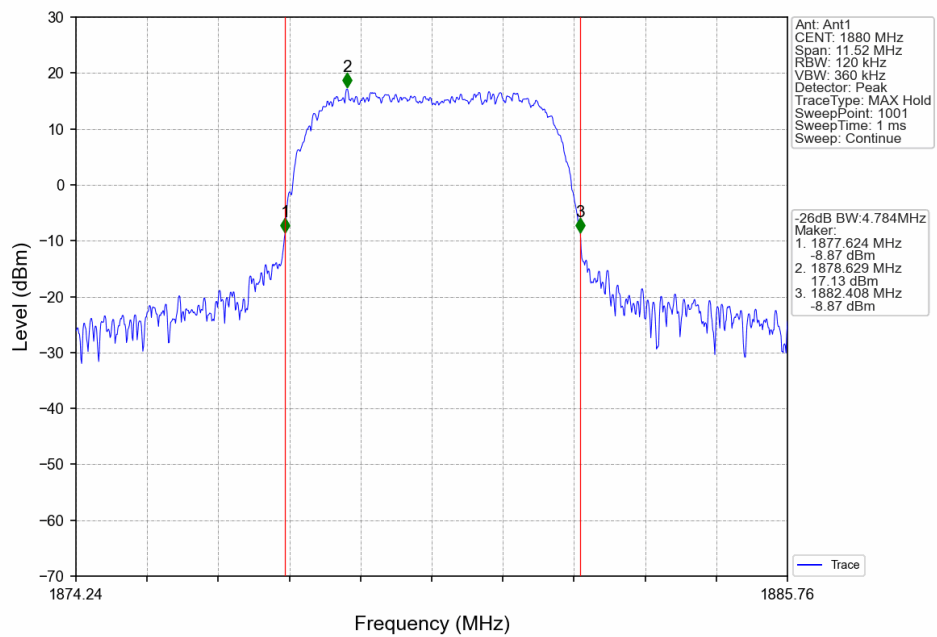
Band II_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



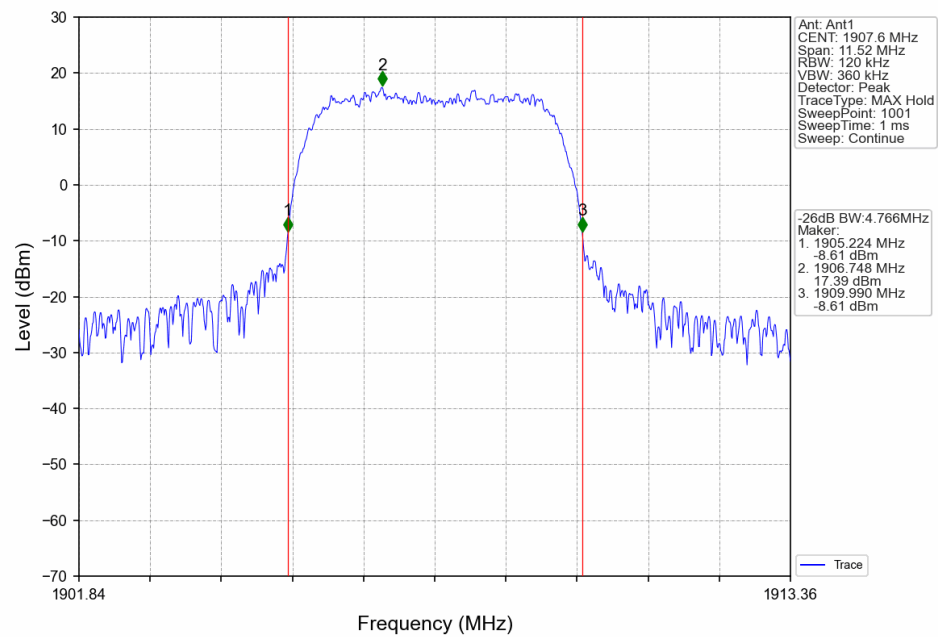
Band II_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



Band II_HSUPA_MCH_1880MHz_Subtest 1_NTNV



Band II_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



5. Peak-Average Ratio

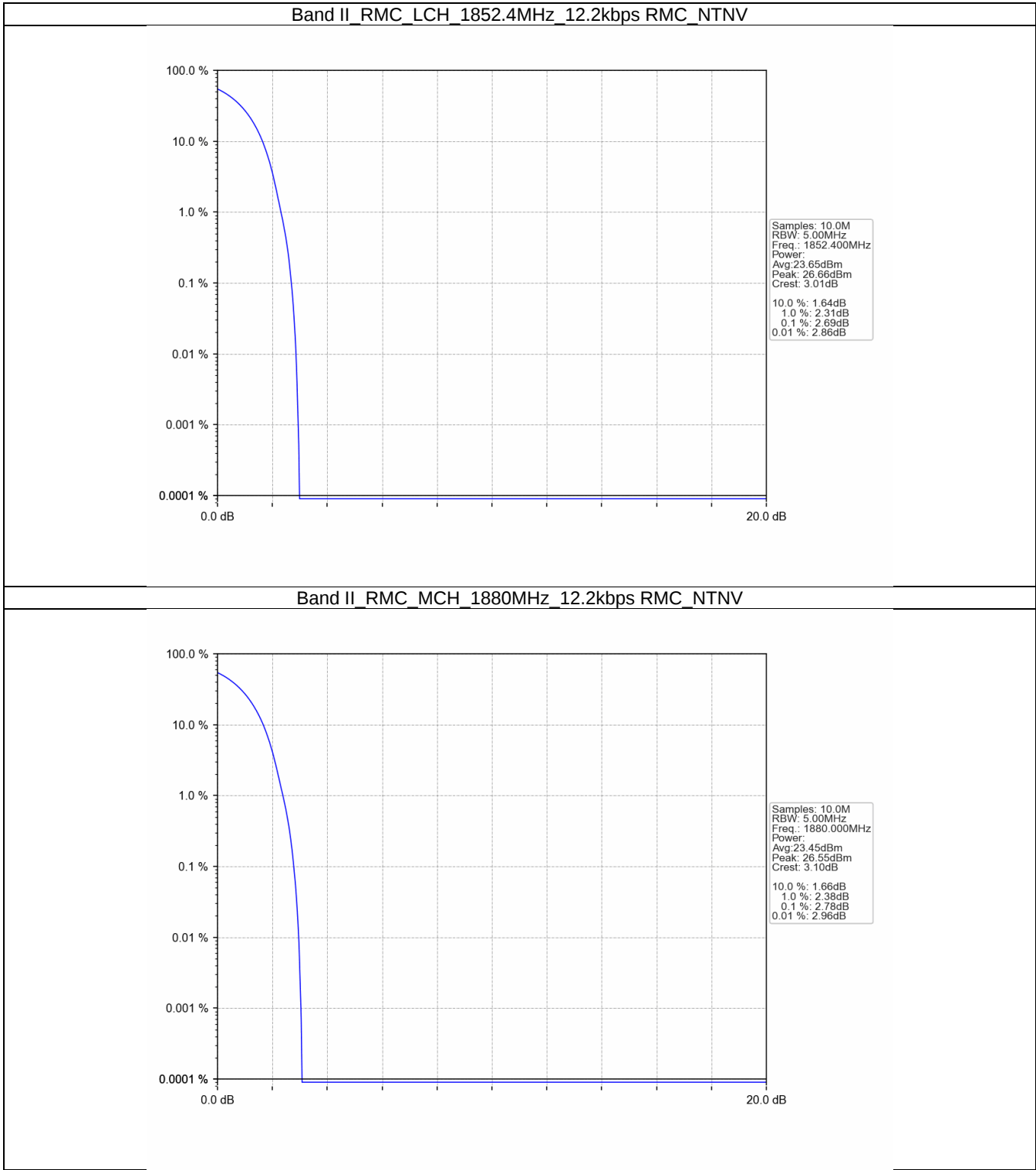
5.1 Test Result

5.1.1 Band II

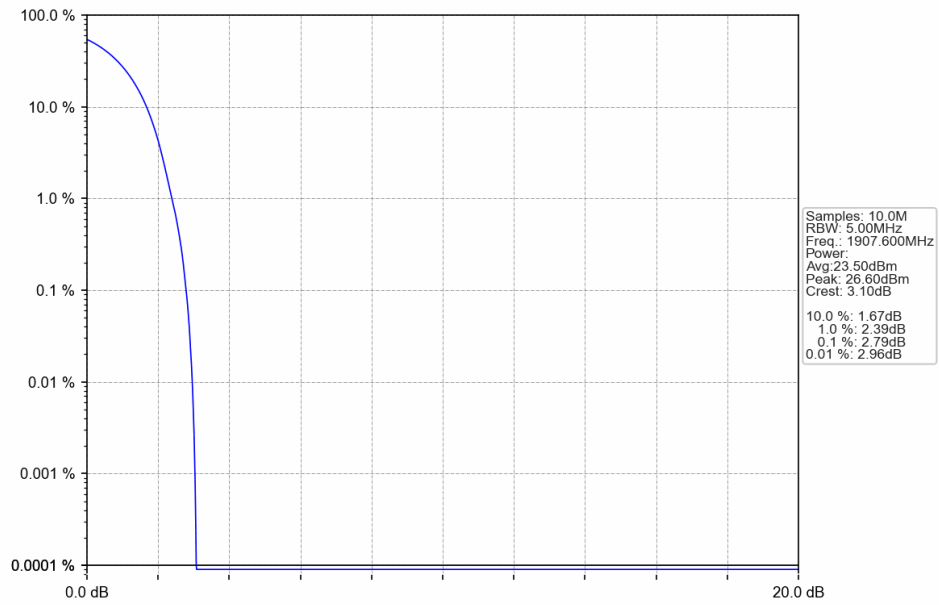
Band II						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	2.69	<=13	Pass
			1880	2.78	<=13	Pass
			1907.6	2.79	<=13	Pass
	HSDPA	Subtest 1	1852.4	5.65	<=13	Pass
			1880	5.78	<=13	Pass
			1907.6	5.66	<=13	Pass
	HSUPA	Subtest 1	1852.4	5.54	<=13	Pass
			1880	5.79	<=13	Pass
			1907.6	5.70	<=13	Pass

5.2 Test Graph

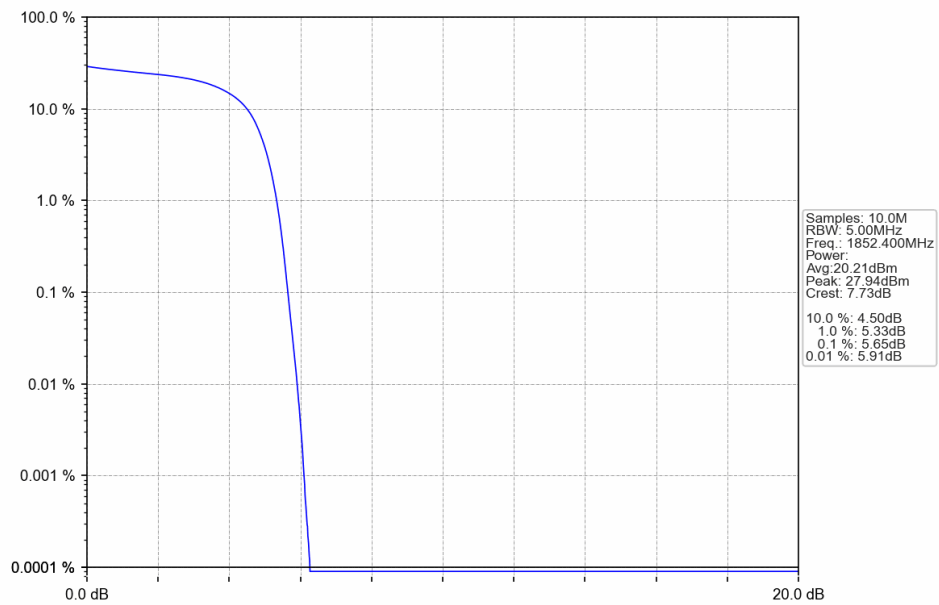
5.2.1 Band II



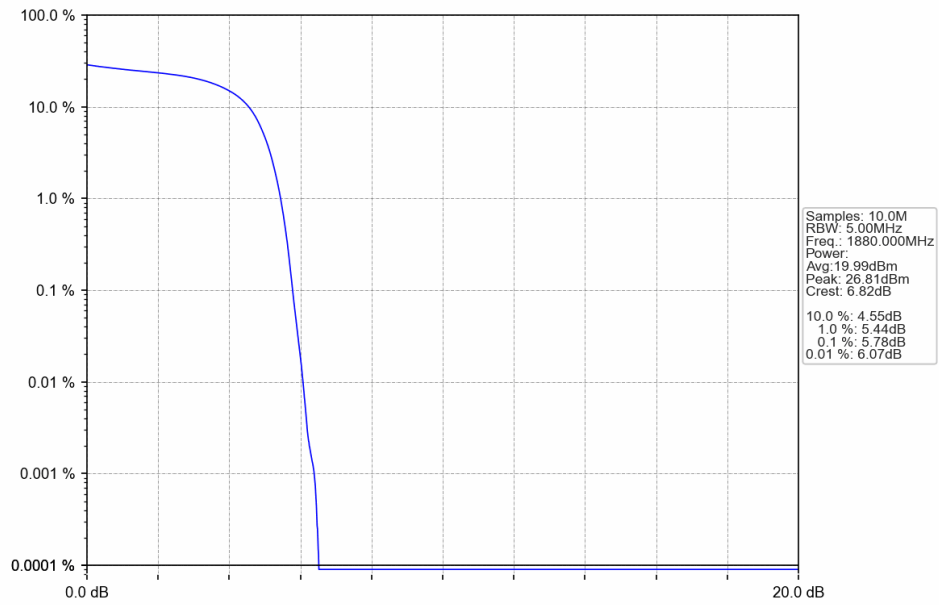
Band II_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



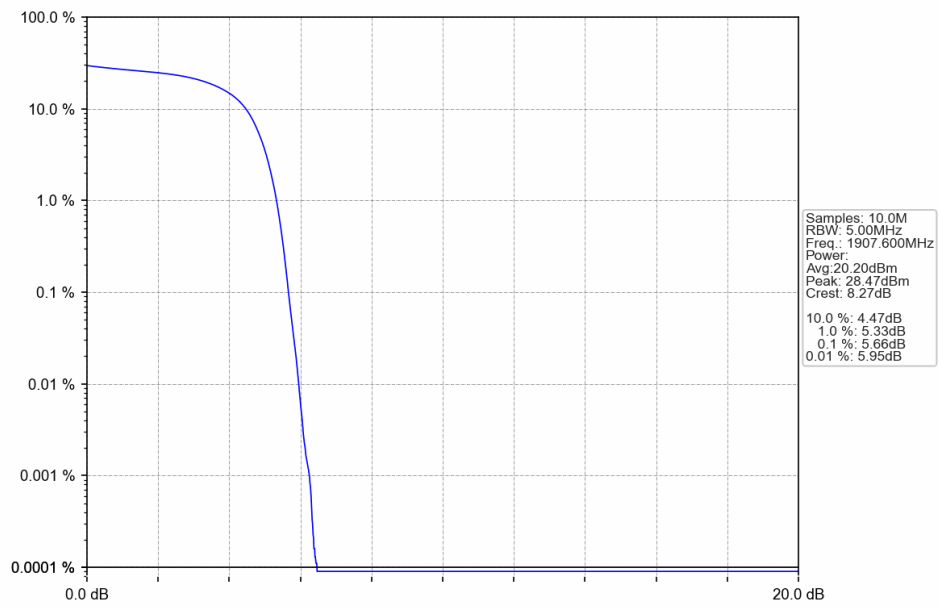
Band II_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



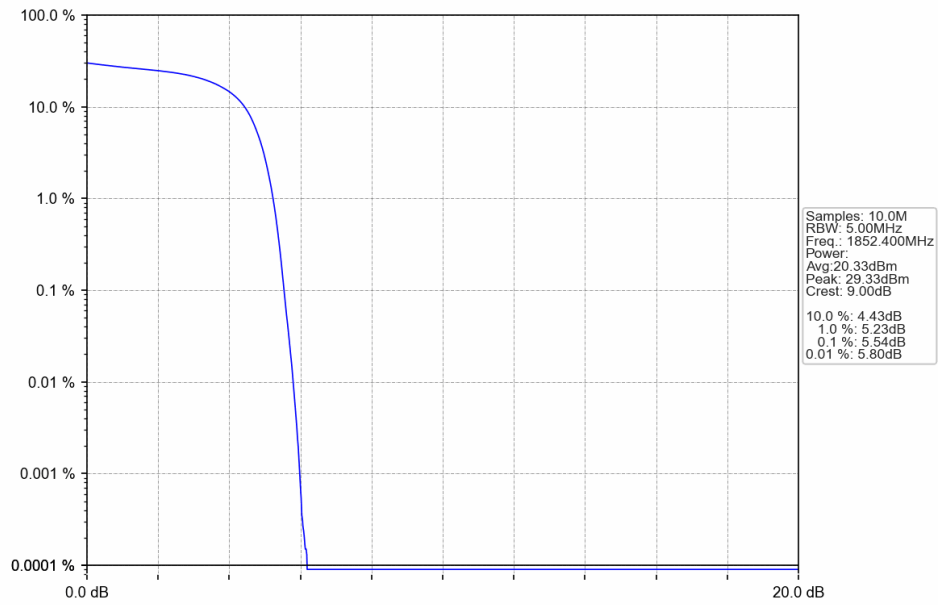
Band II_HSDPA_MCH_1880MHz_Subtest 1_NTNV



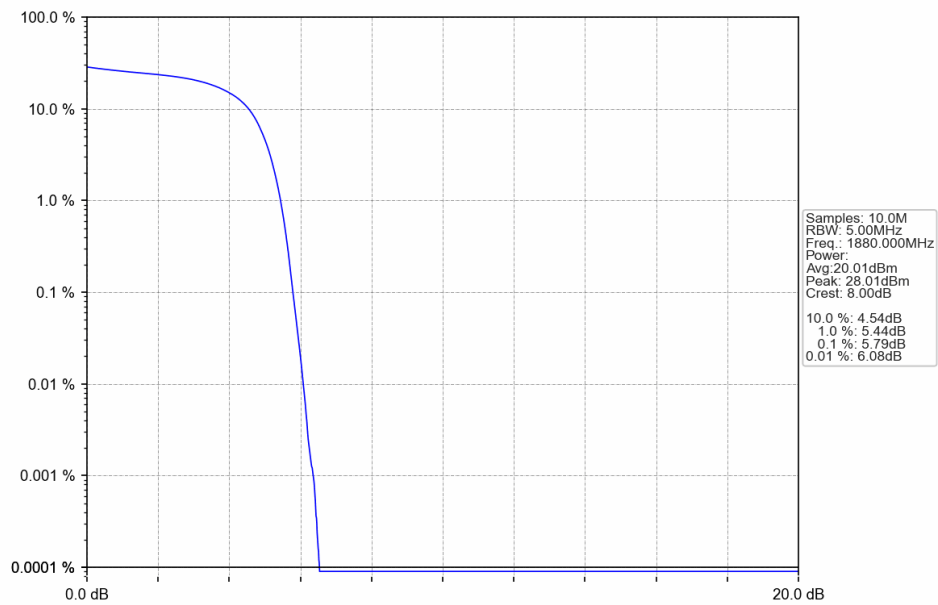
Band II_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



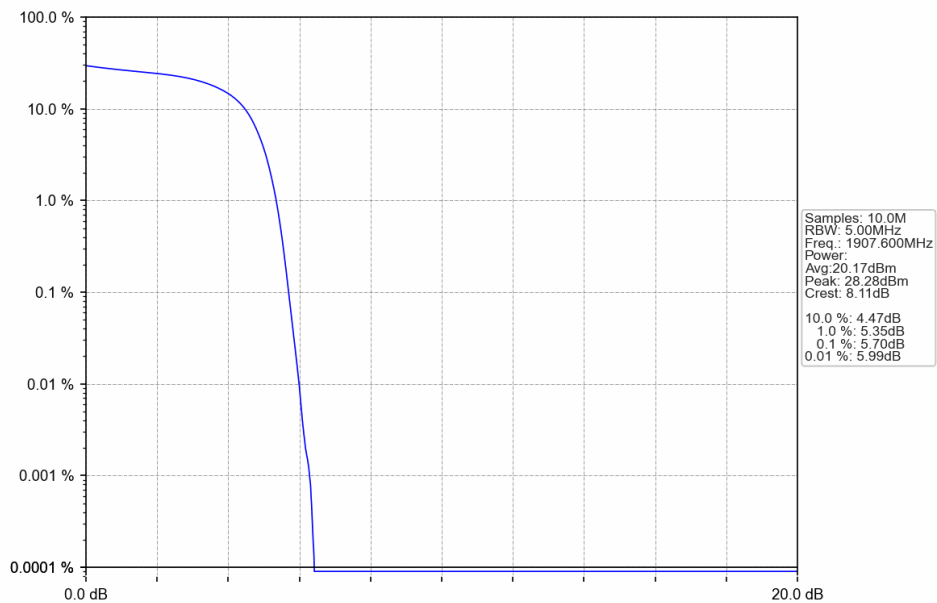
Band II_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



Band II_HSUPA_MCH_1880MHz_Subtest 1_NTNV



Band II_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



6. Spurious Emission & Band Edges

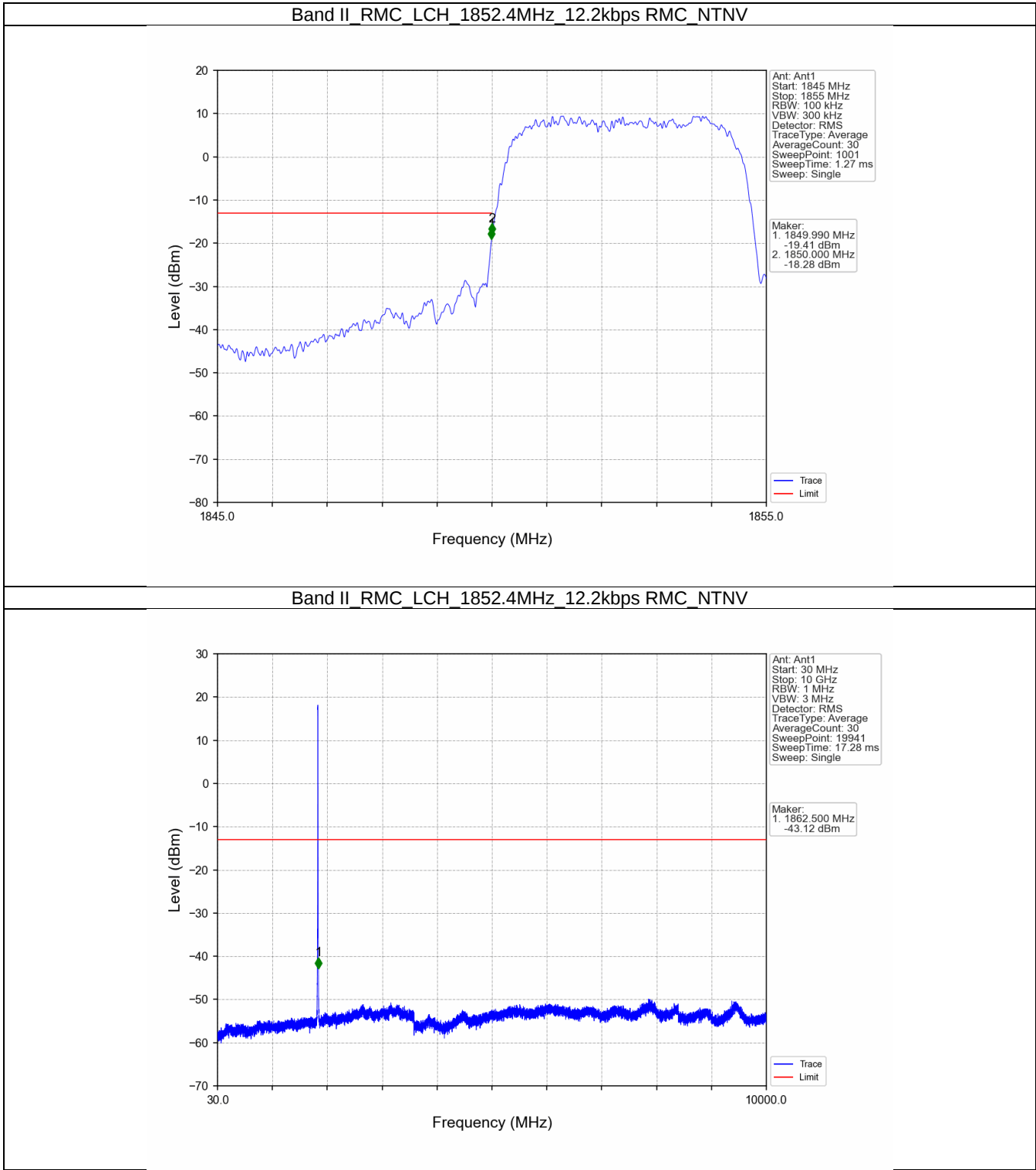
6.1 Test Result

6.1.1 Band II

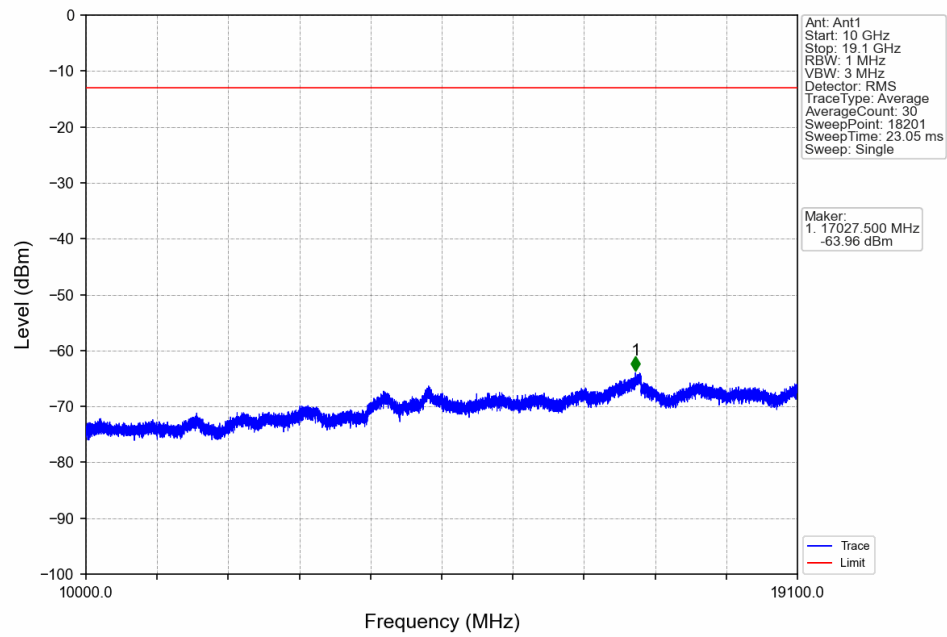
Band II						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	Refer To Test Graph	Pass	
			1880	Refer To Test Graph	Pass	
			1907.6	Refer To Test Graph	Pass	
	HSDPA	Subtest 1	1852.4	Refer To Test Graph	Pass	
			1880	Refer To Test Graph	Pass	
			1907.6	Refer To Test Graph	Pass	
	HSUPA	Subtest 1	1852.4	Refer To Test Graph	Pass	
			1880	Refer To Test Graph	Pass	
			1907.6	Refer To Test Graph	Pass	

6.2 Test Graph

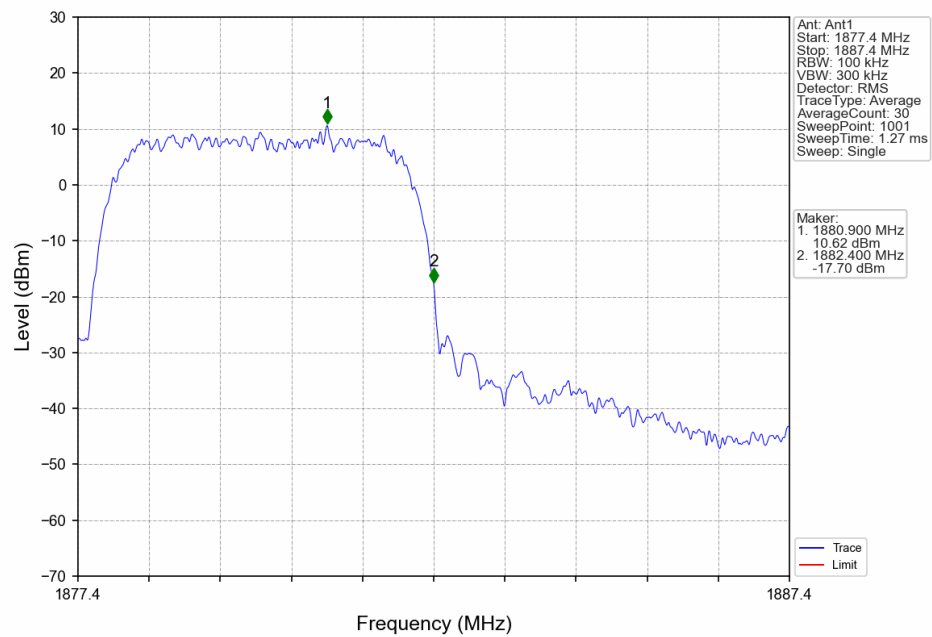
6.2.1 Band II



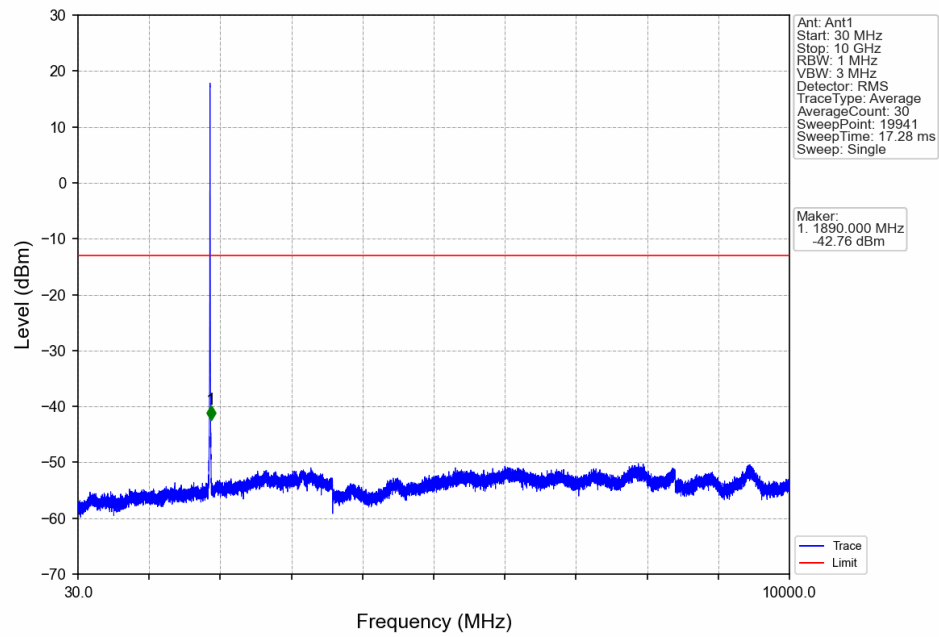
Band II_RMC_LCH_1852.4MHz_12.2kbps RMC_NTNV



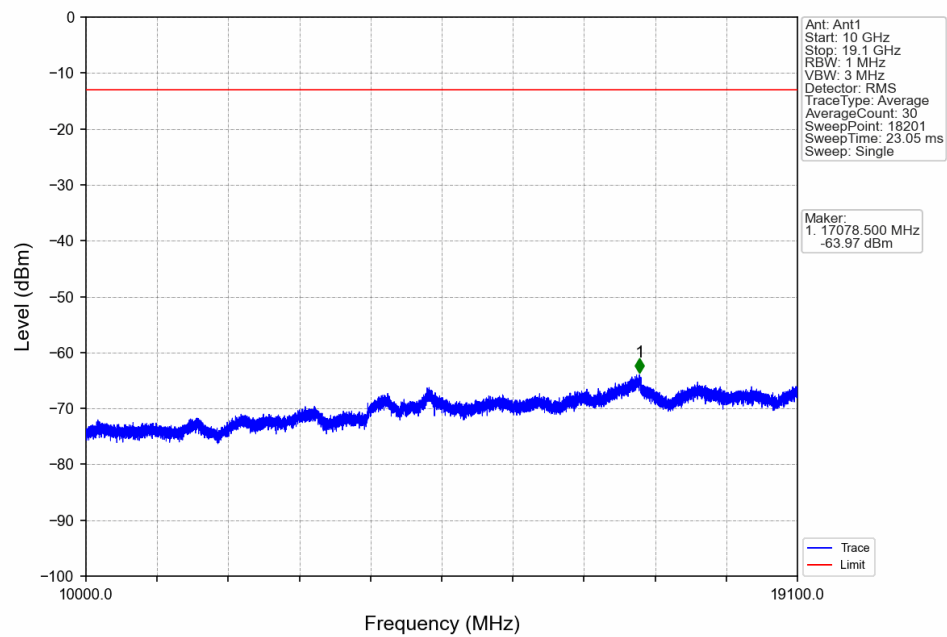
Band II_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



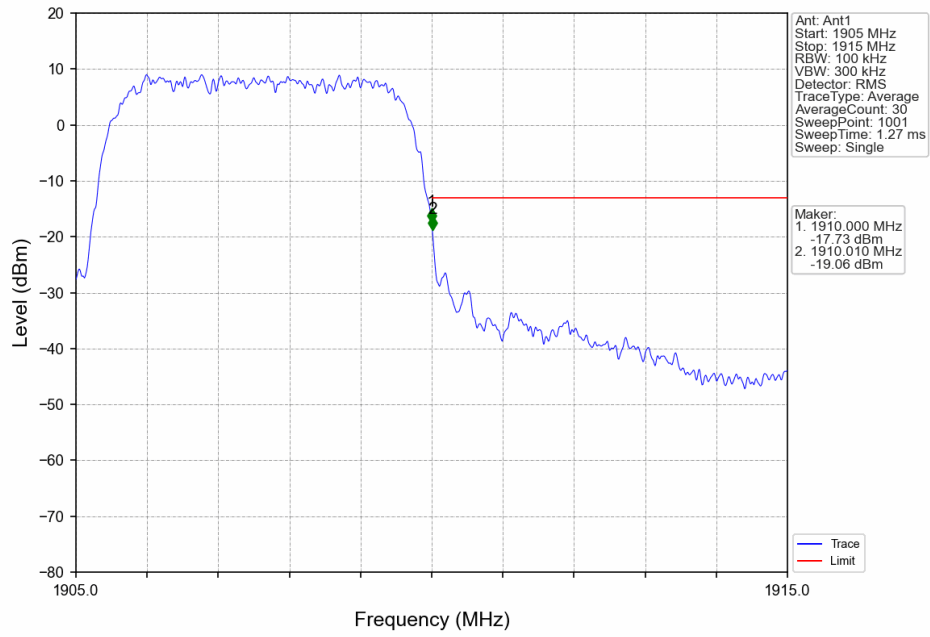
Band II_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



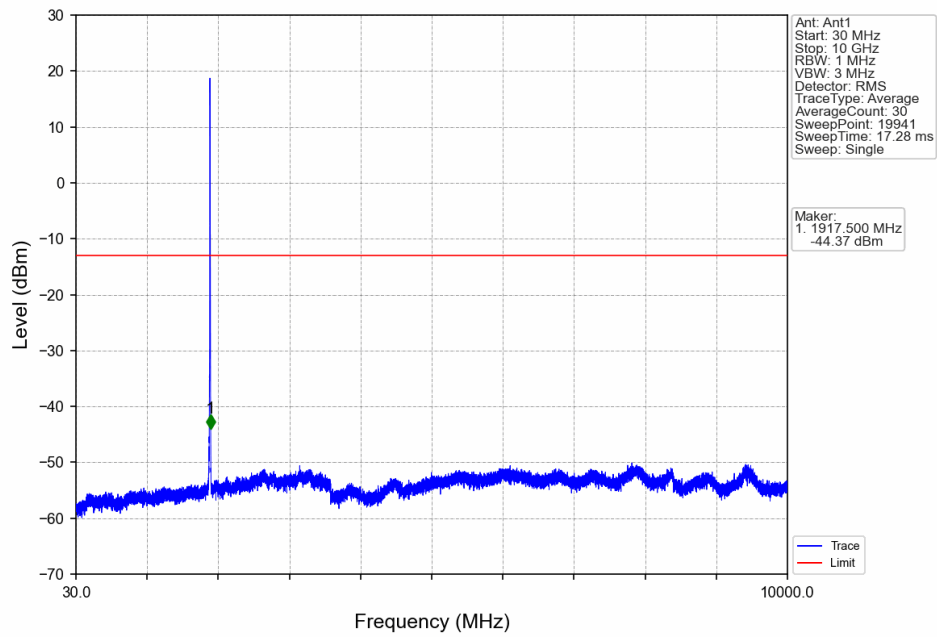
Band II_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



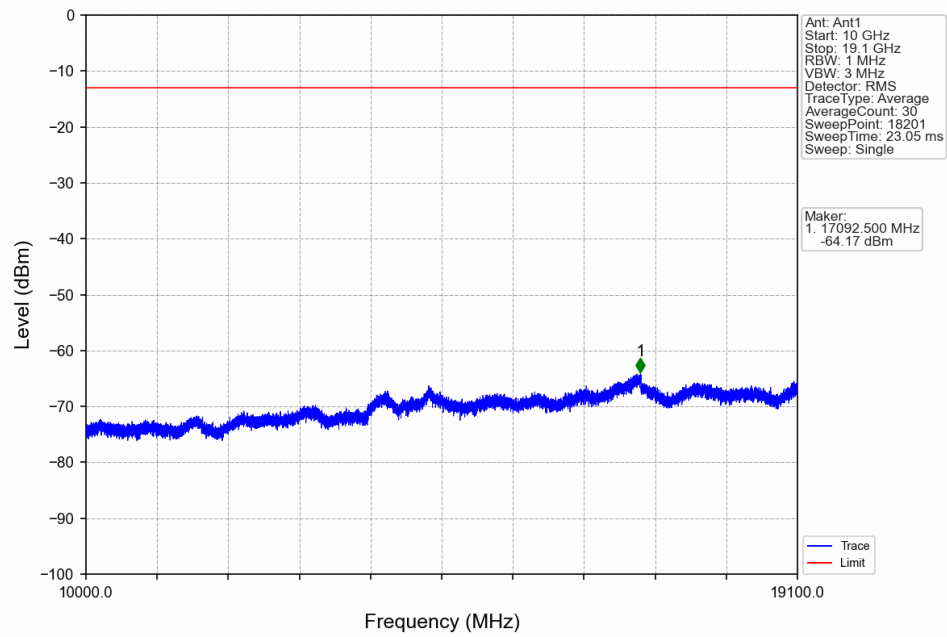
Band II_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



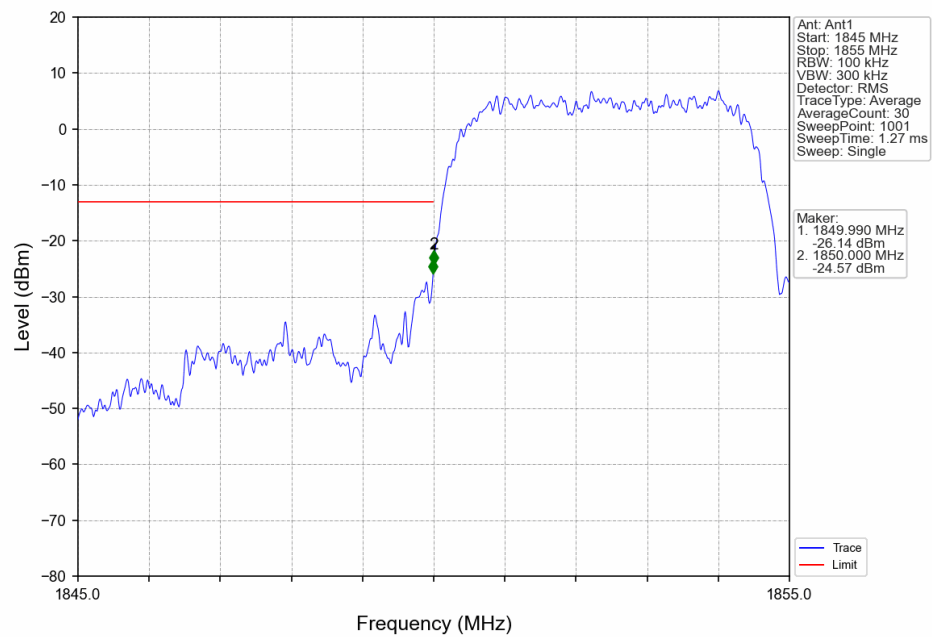
Band II_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



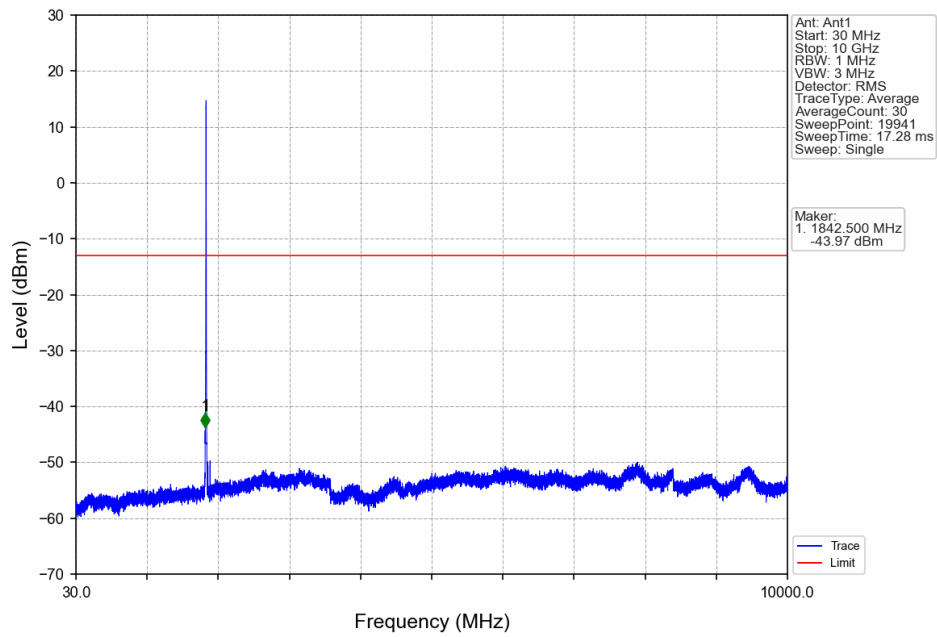
Band II_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



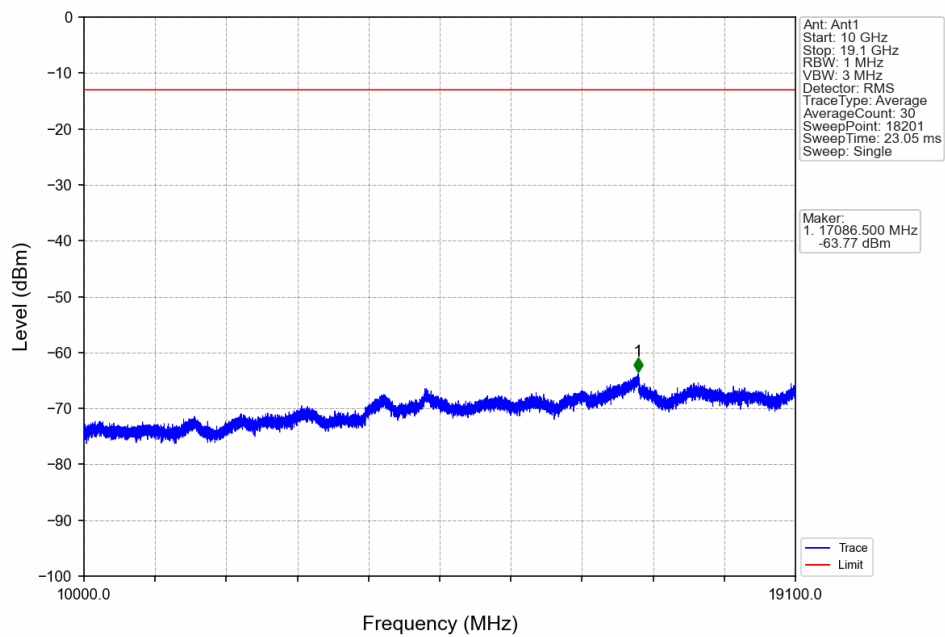
Band II_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



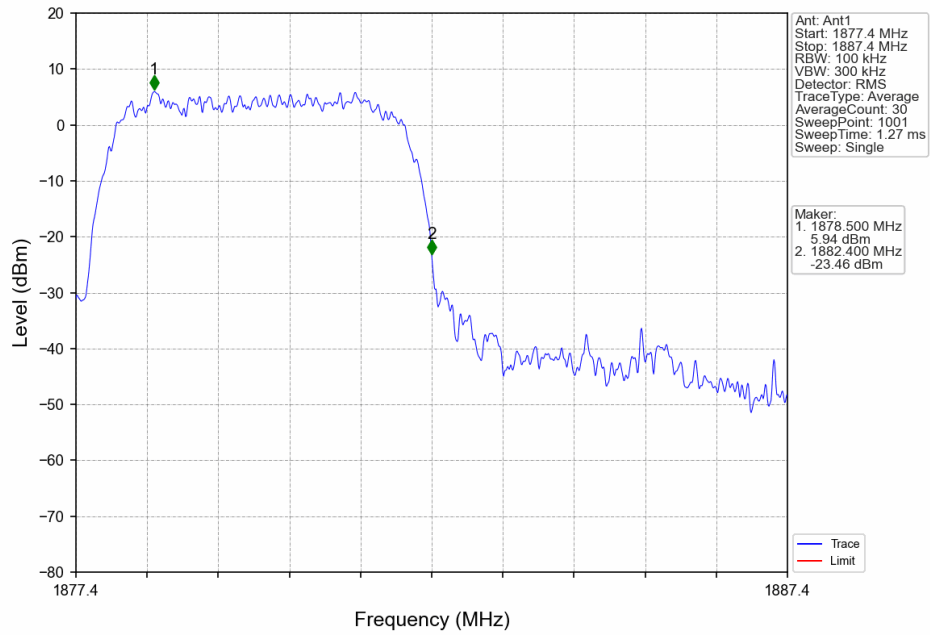
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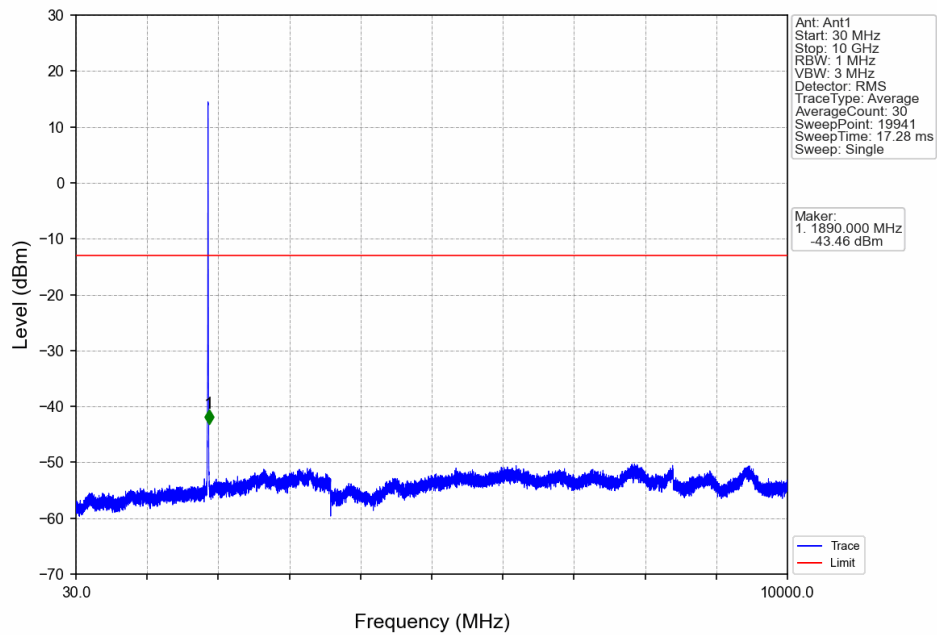
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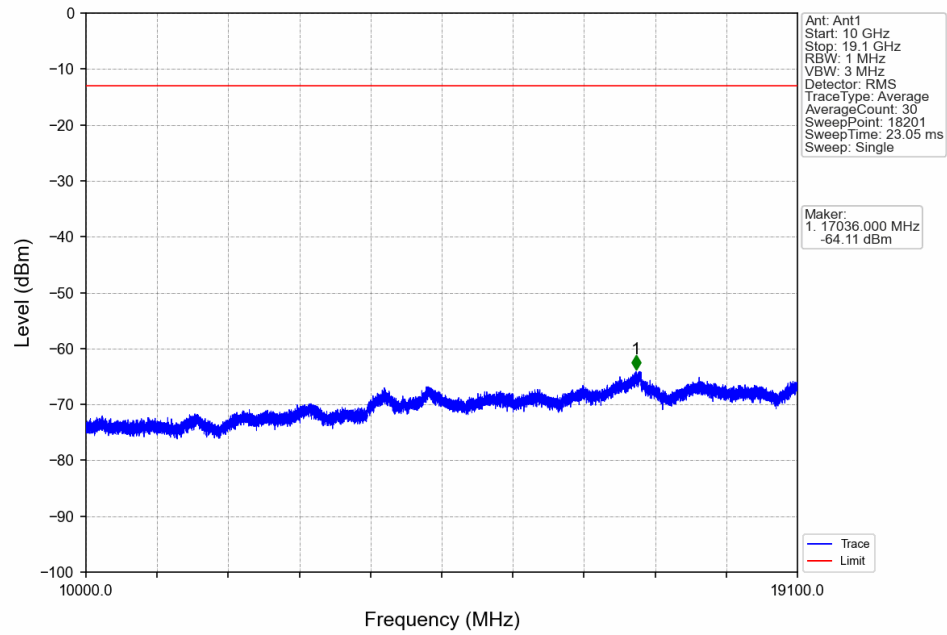
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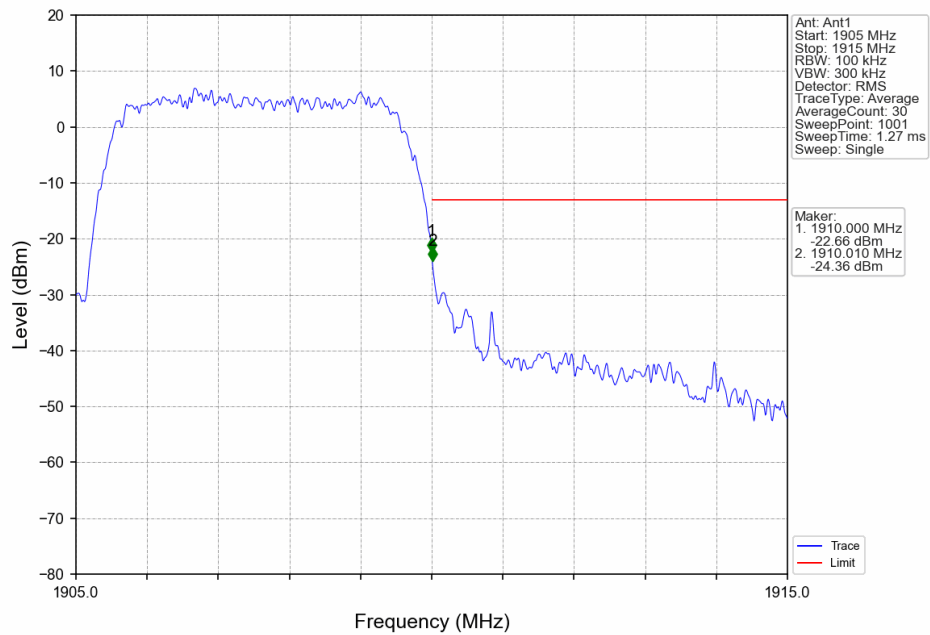
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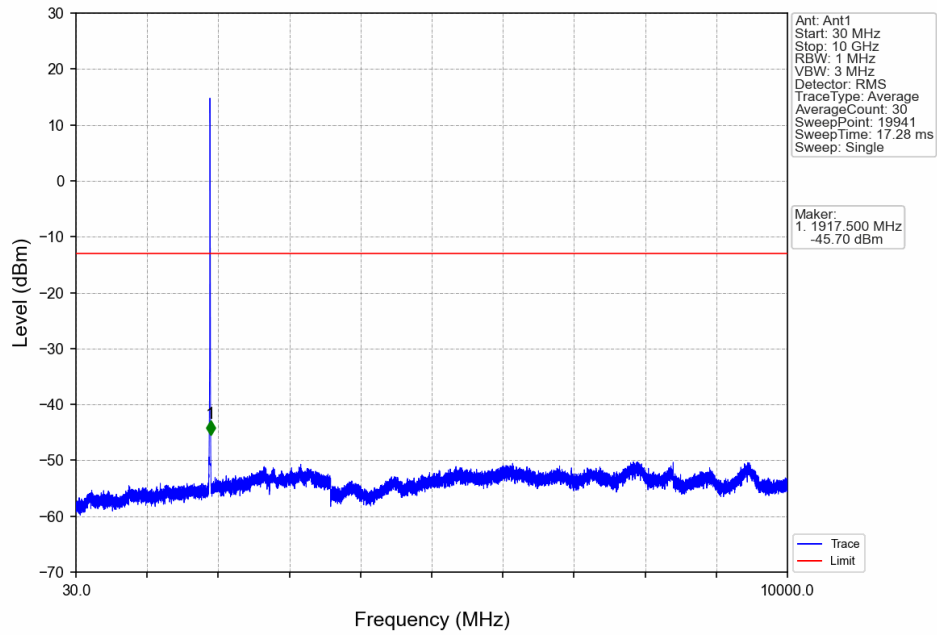
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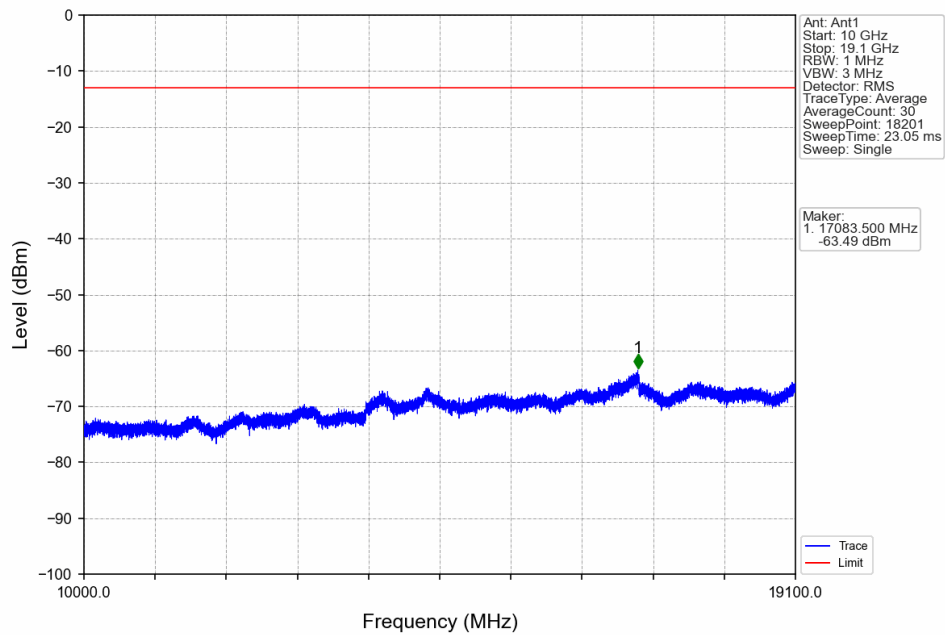
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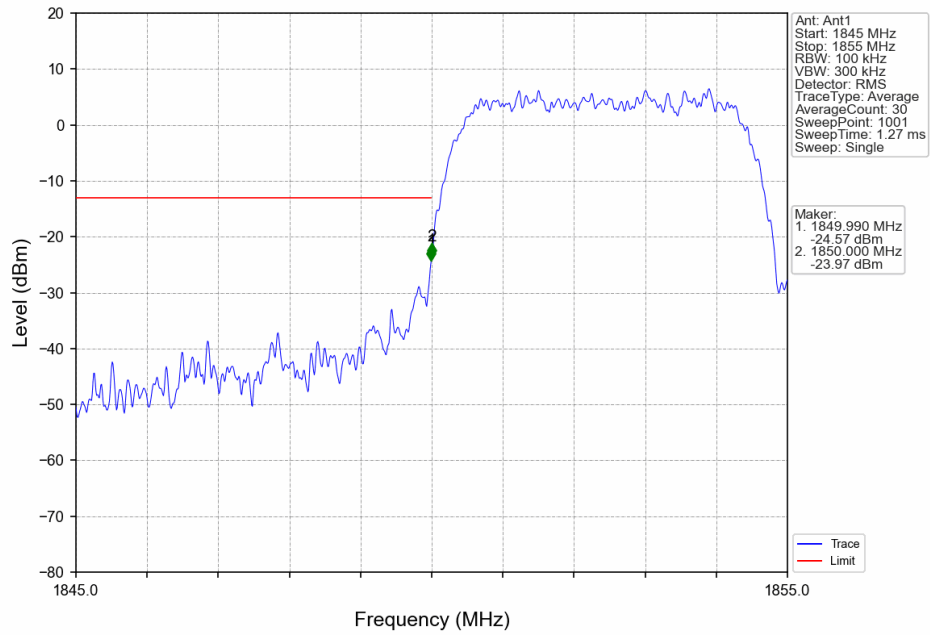
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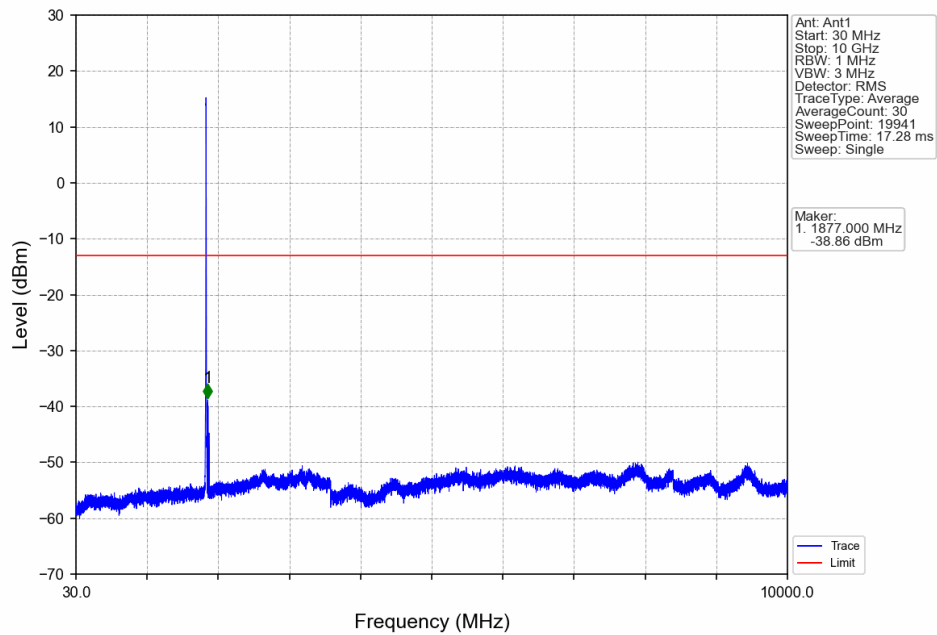
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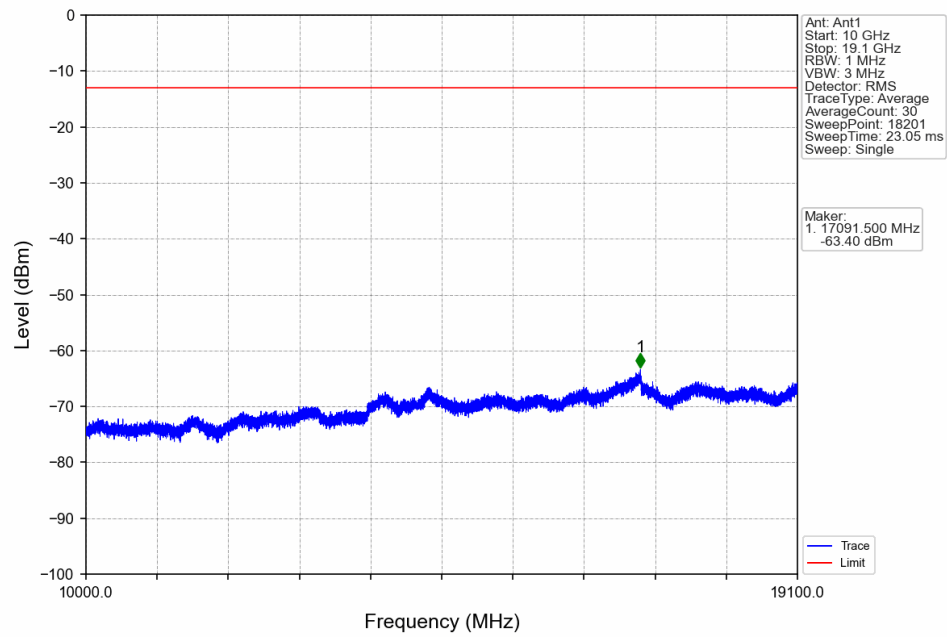
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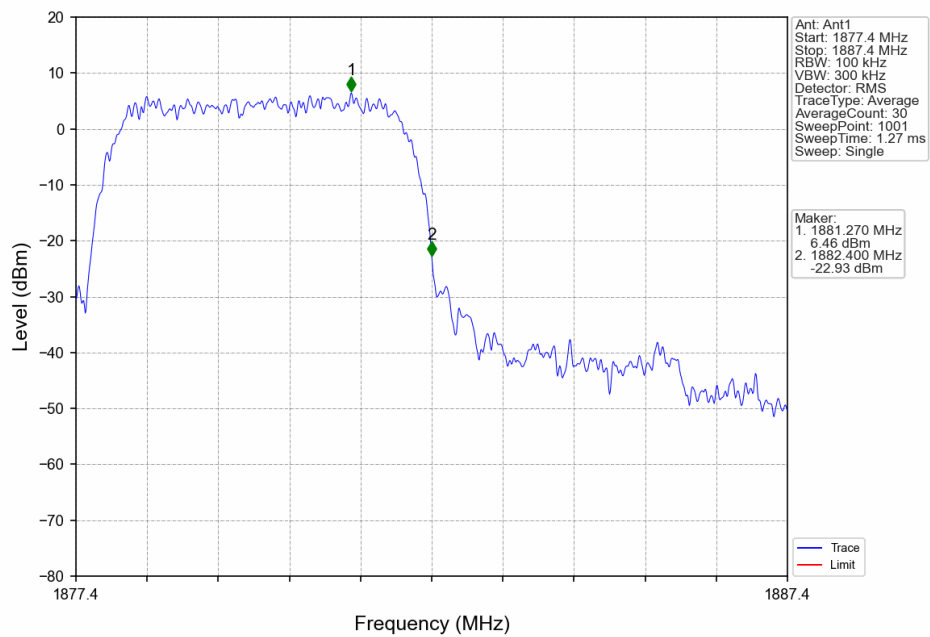
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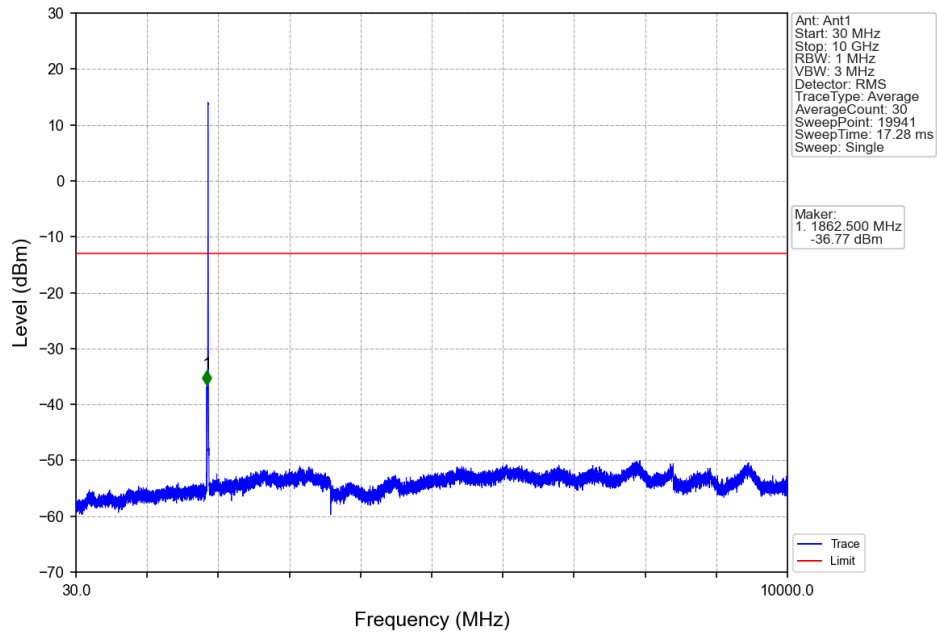
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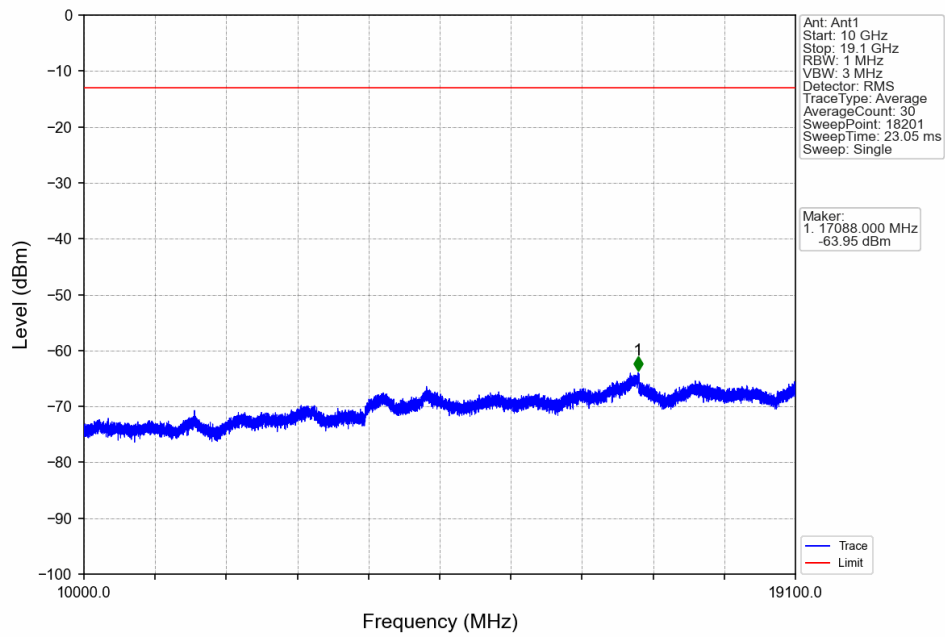
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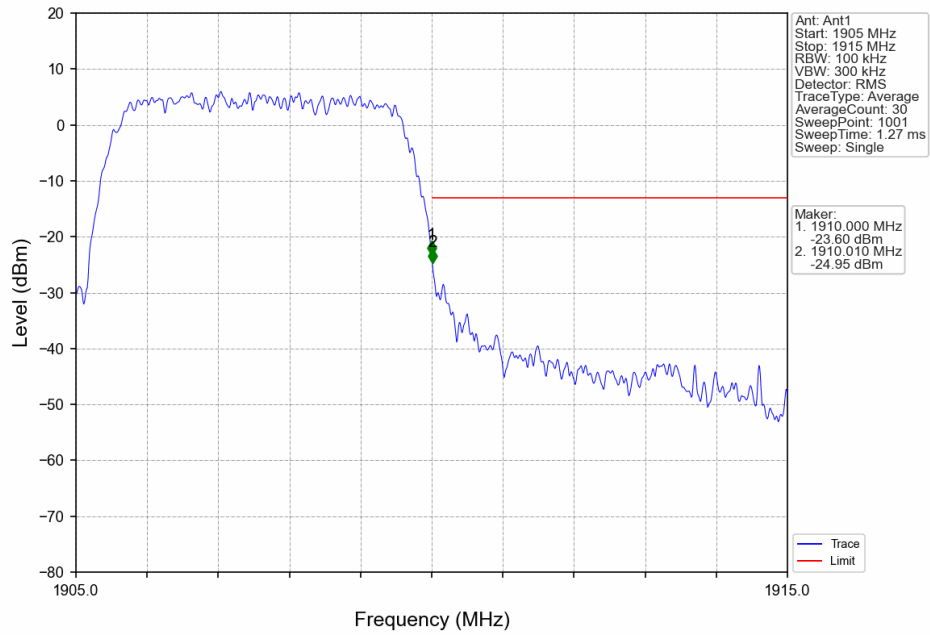
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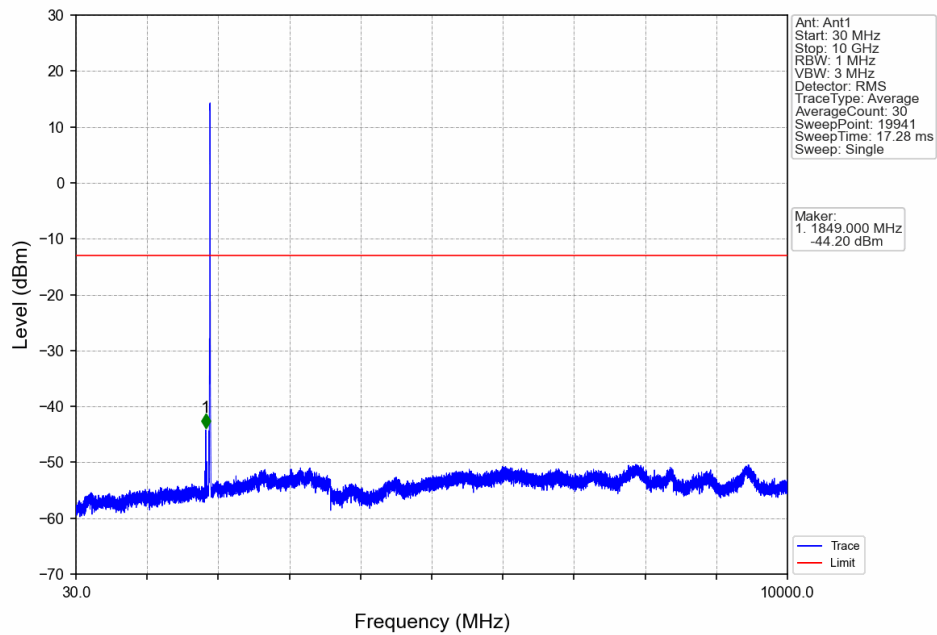
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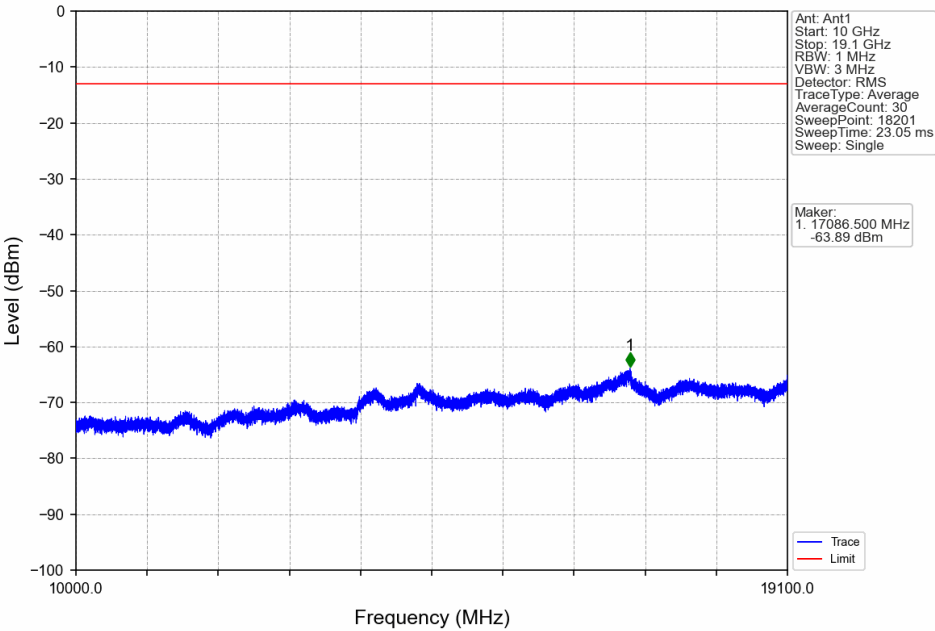
Band II_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



Band II_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



Band II_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



Field Strength of Spurious Radiation

WCDMA Band II ANT31-Low channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3704.8	-66.33	-13	-53.33	-71.19	3.58	8.44	Horizontal	Pass
5557.2	-62.51	-13	-49.51	-68.22	4.74	10.45	Horizontal	Pass
7409.6	-59.79	-13	-46.79	-66.48	4.94	11.63	Horizontal	Pass
3704.8	-66.29	-13	-53.29	-71.15	3.58	8.44	Vertical	Pass
5557.2	-62.12	-13	-49.12	-67.83	4.74	10.45	Vertical	Pass
7409.6	-60.58	-13	-47.58	-67.27	4.94	11.63	Vertical	Pass

WCDMA Band II ANT31-Middle channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3760.0	-66.48	-13	-53.48	-71.37	3.63	8.52	Horizontal	Pass
5640.0	-62.51	-13	-49.51	-68.21	4.75	10.45	Horizontal	Pass
7520.0	-60.85	-13	-47.85	-67.67	4.94	11.76	Horizontal	Pass
3760.0	-66.7	-13	-53.7	-71.59	3.63	8.52	Vertical	Pass
5640.0	-62.13	-13	-49.13	-67.83	4.75	10.45	Vertical	Pass
7520.0	-61.26	-13	-48.26	-68.08	4.94	11.76	Vertical	Pass

WCDMA Band II ANT31-High channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3815.2	-66.1	-13	-53.1	-71.01	3.68	8.59	Horizontal	Pass
5722.8	-62.74	-13	-49.74	-68.43	4.76	10.45	Horizontal	Pass
7630.4	-60.47	-13	-47.47	-67.41	4.95	11.89	Horizontal	Pass
3815.2	-66.34	-13	-53.34	-71.25	3.68	8.59	Vertical	Pass
5722.8	-62.86	-13	-49.86	-68.55	4.76	10.45	Vertical	Pass
7630.4	-60.58	-13	-47.58	-67.52	4.95	11.89	Vertical	Pass

Remark:

- The field strength is calculated by adding the S.G.Power, Antenna Gain & Cable Loss. The basic equation with a sample calculation is as follows:

$$\text{EIRP} = \text{S.G.Power} + \text{Antenna Gain} - \text{Cable Loss}$$

$$\text{Over Limit} = \text{Limit} - \text{EIRP}$$
- All antennas of RSE are tested, and only the worst data is presented.

---End of Attachment---