

1. Effective (Isotropic) Radiated Power Output Data

1.1 Band2_EIRP

1.1.1 Test Result

Band: 2								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	21.78	-0.32	21.46	<=33.01	Pass
			1880	21.56	-0.32	21.24	<=33.01	Pass
			1907.6	21.61	-0.32	21.29	<=33.01	Pass
	HSDPA	Subtest 1	1852.4	22.10	-0.32	21.78	<=33.01	Pass
		Subtest 2	1852.4	22.18	-0.32	21.86	<=33.01	Pass
		Subtest 3	1852.4	22.18	-0.32	21.86	<=33.01	Pass
		Subtest 4	1852.4	22.12	-0.32	21.80	<=33.01	Pass
		Subtest 1	1880	21.05	-0.32	20.73	<=33.01	Pass
		Subtest 2	1880	21.05	-0.32	20.73	<=33.01	Pass
		Subtest 3	1880	21.04	-0.32	20.72	<=33.01	Pass
		Subtest 4	1880	20.98	-0.32	20.66	<=33.01	Pass
		Subtest 1	1907.6	21.65	-0.32	21.33	<=33.01	Pass
		Subtest 2	1907.6	21.65	-0.32	21.33	<=33.01	Pass
		Subtest 3	1907.6	21.66	-0.32	21.34	<=33.01	Pass
		Subtest 4	1907.6	21.61	-0.32	21.29	<=33.01	Pass
	HSUPA	Subtest 1	1852.4	20.26	-0.32	19.94	<=33.01	Pass
		Subtest 2	1852.4	20.18	-0.32	19.86	<=33.01	Pass
		Subtest 3	1852.4	19.97	-0.32	19.65	<=33.01	Pass
		Subtest 4	1852.4	19.95	-0.32	19.63	<=33.01	Pass
		Subtest 5	1852.4	19.95	-0.32	19.63	<=33.01	Pass
		Subtest 1	1880	18.86	-0.32	18.54	<=33.01	Pass
		Subtest 2	1880	19.01	-0.32	18.69	<=33.01	Pass
		Subtest 3	1880	18.76	-0.32	18.44	<=33.01	Pass
		Subtest 4	1880	18.74	-0.32	18.42	<=33.01	Pass
		Subtest 5	1880	18.46	-0.32	18.14	<=33.01	Pass
		Subtest 1	1907.6	19.43	-0.32	19.11	<=33.01	Pass
		Subtest 2	1907.6	19.15	-0.32	18.83	<=33.01	Pass
		Subtest 3	1907.6	19.14	-0.32	18.82	<=33.01	Pass
		Subtest 4	1907.6	19.14	-0.32	18.82	<=33.01	Pass
		Subtest 5	1907.6	19.46	-0.32	19.14	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Band2

2.1.1 Test Result

Band: 2							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1852.4	20	3.27	9.842	0.0053	-2.5 to 2.5	Pass

			3.85	-2.875	-0.0016	-2.5 to 2.5	Pass
			4.43	6.123	0.0033	-2.5 to 2.5	Pass
		-30	3.85	5.965	0.0032	-2.5 to 2.5	Pass
		-20	3.85	6.795	0.0037	-2.5 to 2.5	Pass
		-10	3.85	6.588	0.0036	-2.5 to 2.5	Pass
		0	3.85	7.553	0.0041	-2.5 to 2.5	Pass
		10	3.85	4.735	0.0026	-2.5 to 2.5	Pass
		30	3.85	5.815	0.0031	-2.5 to 2.5	Pass
		40	3.85	5.229	0.0028	-2.5 to 2.5	Pass
		50	3.85	5.021	0.0027	-2.5 to 2.5	Pass
	1880	20	3.27	6.452	0.0034	-2.5 to 2.5	Pass
			3.85	2.782	0.0015	-2.5 to 2.5	Pass
			4.43	4.950	0.0026	-2.5 to 2.5	Pass
		-30	3.85	6.866	0.0037	-2.5 to 2.5	Pass
		-20	3.85	5.021	0.0027	-2.5 to 2.5	Pass
		-10	3.85	6.645	0.0035	-2.5 to 2.5	Pass
		0	3.85	6.523	0.0035	-2.5 to 2.5	Pass
		10	3.85	6.938	0.0037	-2.5 to 2.5	Pass
		30	3.85	5.028	0.0027	-2.5 to 2.5	Pass
		40	3.85	2.775	0.0015	-2.5 to 2.5	Pass
		50	3.85	4.885	0.0026	-2.5 to 2.5	Pass
	1907.6	20	3.27	3.204	0.0017	-2.5 to 2.5	Pass
			3.85	-5.357	-0.0028	-2.5 to 2.5	Pass
			4.43	6.816	0.0036	-2.5 to 2.5	Pass
		-30	3.85	5.658	0.0030	-2.5 to 2.5	Pass
		-20	3.85	4.077	0.0021	-2.5 to 2.5	Pass
		-10	3.85	4.020	0.0021	-2.5 to 2.5	Pass
		0	3.85	5.579	0.0029	-2.5 to 2.5	Pass
		10	3.85	5.100	0.0027	-2.5 to 2.5	Pass
		30	3.85	3.448	0.0018	-2.5 to 2.5	Pass
		40	3.85	4.020	0.0021	-2.5 to 2.5	Pass
HSDPA	1852.4	20	3.27	14.763	0.0080	-2.5 to 2.5	Pass
			3.85	6.595	0.0036	-2.5 to 2.5	Pass
			4.43	4.020	0.0022	-2.5 to 2.5	Pass
		-30	3.85	3.648	0.0020	-2.5 to 2.5	Pass
		-20	3.85	3.984	0.0022	-2.5 to 2.5	Pass
		-10	3.85	5.701	0.0031	-2.5 to 2.5	Pass
		0	3.85	4.892	0.0026	-2.5 to 2.5	Pass
		10	3.85	6.809	0.0037	-2.5 to 2.5	Pass
		30	3.85	4.864	0.0026	-2.5 to 2.5	Pass
		40	3.85	6.223	0.0034	-2.5 to 2.5	Pass
		50	3.85	4.249	0.0023	-2.5 to 2.5	Pass
	1880	20	3.27	4.778	0.0025	-2.5 to 2.5	Pass
			3.85	6.716	0.0036	-2.5 to 2.5	Pass
			4.43	7.360	0.0039	-2.5 to 2.5	Pass
		-30	3.85	5.958	0.0032	-2.5 to 2.5	Pass
		-20	3.85	5.758	0.0031	-2.5 to 2.5	Pass
		-10	3.85	6.344	0.0034	-2.5 to 2.5	Pass
		0	3.85	5.536	0.0029	-2.5 to 2.5	Pass
		10	3.85	6.895	0.0037	-2.5 to 2.5	Pass
		30	3.85	6.938	0.0037	-2.5 to 2.5	Pass
		40	3.85	9.592	0.0051	-2.5 to 2.5	Pass
		50	3.85	9.019	0.0048	-2.5 to 2.5	Pass
	1907.6	20	3.27	7.918	0.0042	-2.5 to 2.5	Pass

			3.85	4.678	0.0025	-2.5 to 2.5	Pass
			4.43	7.002	0.0037	-2.5 to 2.5	Pass
		-30	3.85	3.476	0.0018	-2.5 to 2.5	Pass
		-20	3.85	3.641	0.0019	-2.5 to 2.5	Pass
		-10	3.85	4.385	0.0023	-2.5 to 2.5	Pass
		0	3.85	6.108	0.0032	-2.5 to 2.5	Pass
		10	3.85	4.878	0.0026	-2.5 to 2.5	Pass
		30	3.85	7.203	0.0038	-2.5 to 2.5	Pass
		40	3.85	5.143	0.0027	-2.5 to 2.5	Pass
		50	3.85	6.466	0.0034	-2.5 to 2.5	Pass
HSUPA	1852.4	20	3.27	-22.359	-0.0121	-2.5 to 2.5	Pass
			3.85	-11.244	-0.0061	-2.5 to 2.5	Pass
			4.43	-9.999	-0.0054	-2.5 to 2.5	Pass
		-30	3.85	-14.849	-0.0080	-2.5 to 2.5	Pass
		-20	3.85	-10.350	-0.0056	-2.5 to 2.5	Pass
		-10	3.85	-11.165	-0.0060	-2.5 to 2.5	Pass
		0	3.85	-12.324	-0.0067	-2.5 to 2.5	Pass
		10	3.85	-10.571	-0.0057	-2.5 to 2.5	Pass
		30	3.85	-9.255	-0.0050	-2.5 to 2.5	Pass
		40	3.85	-14.305	-0.0077	-2.5 to 2.5	Pass
		50	3.85	-10.321	-0.0056	-2.5 to 2.5	Pass
	1880	20	3.27	-7.181	-0.0038	-2.5 to 2.5	Pass
			3.85	-12.653	-0.0067	-2.5 to 2.5	Pass
			4.43	-12.653	-0.0067	-2.5 to 2.5	Pass
		-30	3.85	-13.261	-0.0071	-2.5 to 2.5	Pass
		-20	3.85	-13.146	-0.0070	-2.5 to 2.5	Pass
		-10	3.85	-9.177	-0.0049	-2.5 to 2.5	Pass
		0	3.85	-12.603	-0.0067	-2.5 to 2.5	Pass
		10	3.85	-8.984	-0.0048	-2.5 to 2.5	Pass
		30	3.85	-10.965	-0.0058	-2.5 to 2.5	Pass
		40	3.85	-12.496	-0.0066	-2.5 to 2.5	Pass
		50	3.85	-12.767	-0.0068	-2.5 to 2.5	Pass
	1907.6	20	3.27	1.252	0.0007	-2.5 to 2.5	Pass
			3.85	-5.078	-0.0027	-2.5 to 2.5	Pass
			4.43	-9.463	-0.0050	-2.5 to 2.5	Pass
		-30	3.85	-5.057	-0.0027	-2.5 to 2.5	Pass
		-20	3.85	4.156	0.0022	-2.5 to 2.5	Pass
		-10	3.85	-2.990	-0.0016	-2.5 to 2.5	Pass
		0	3.85	-9.620	-0.0050	-2.5 to 2.5	Pass
		10	3.85	1.824	0.0010	-2.5 to 2.5	Pass
		30	3.85	-11.909	-0.0062	-2.5 to 2.5	Pass
		40	3.85	-0.787	-0.0004	-2.5 to 2.5	Pass
		50	3.85	-1.202	-0.0006	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Band2

3.1.1 Test Result

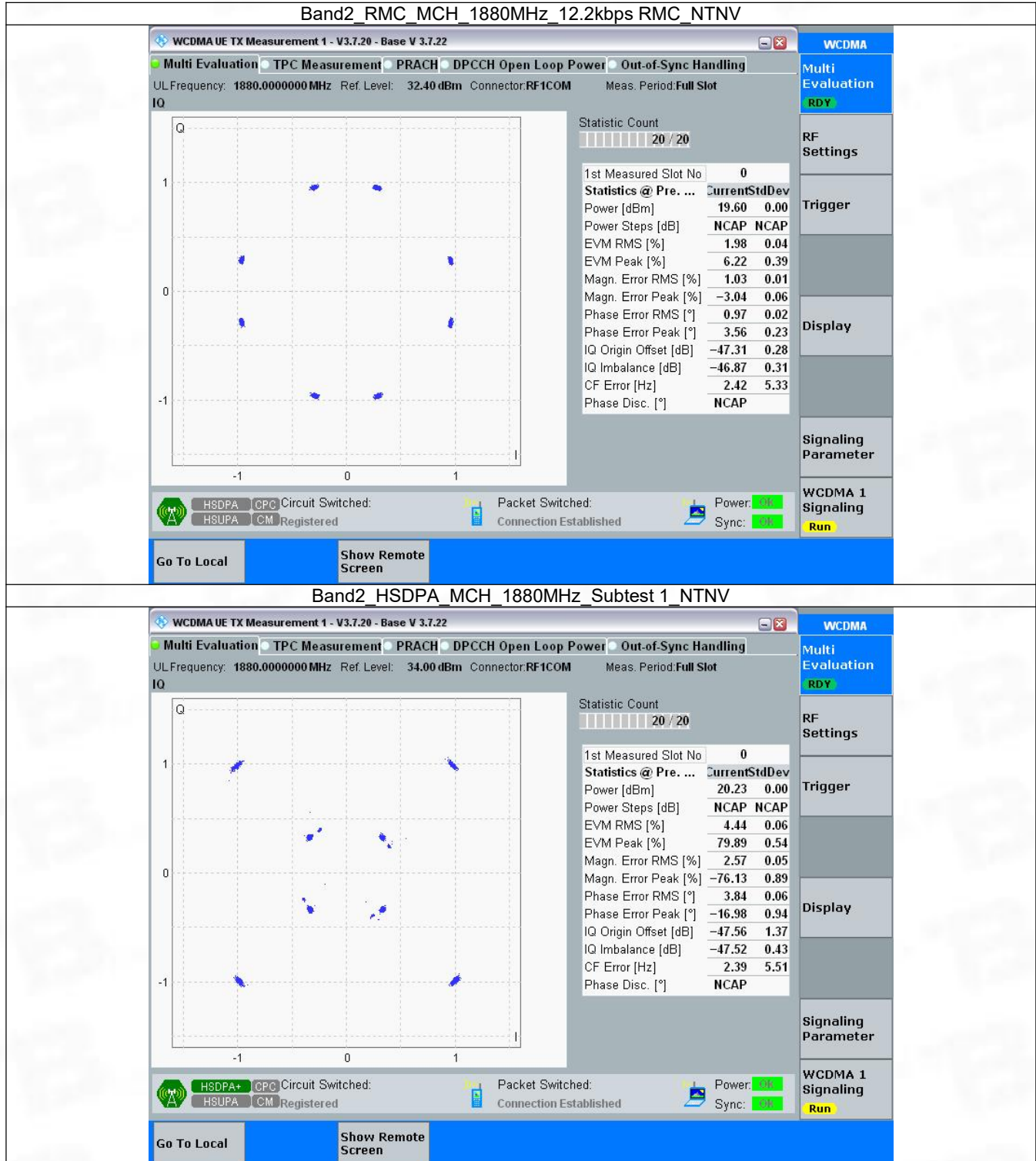
Band: 2						
ENV	Mode		Frequency (MHz)	Modulation Characteristics		Verdict
	Network	Subset		Result	Limit	

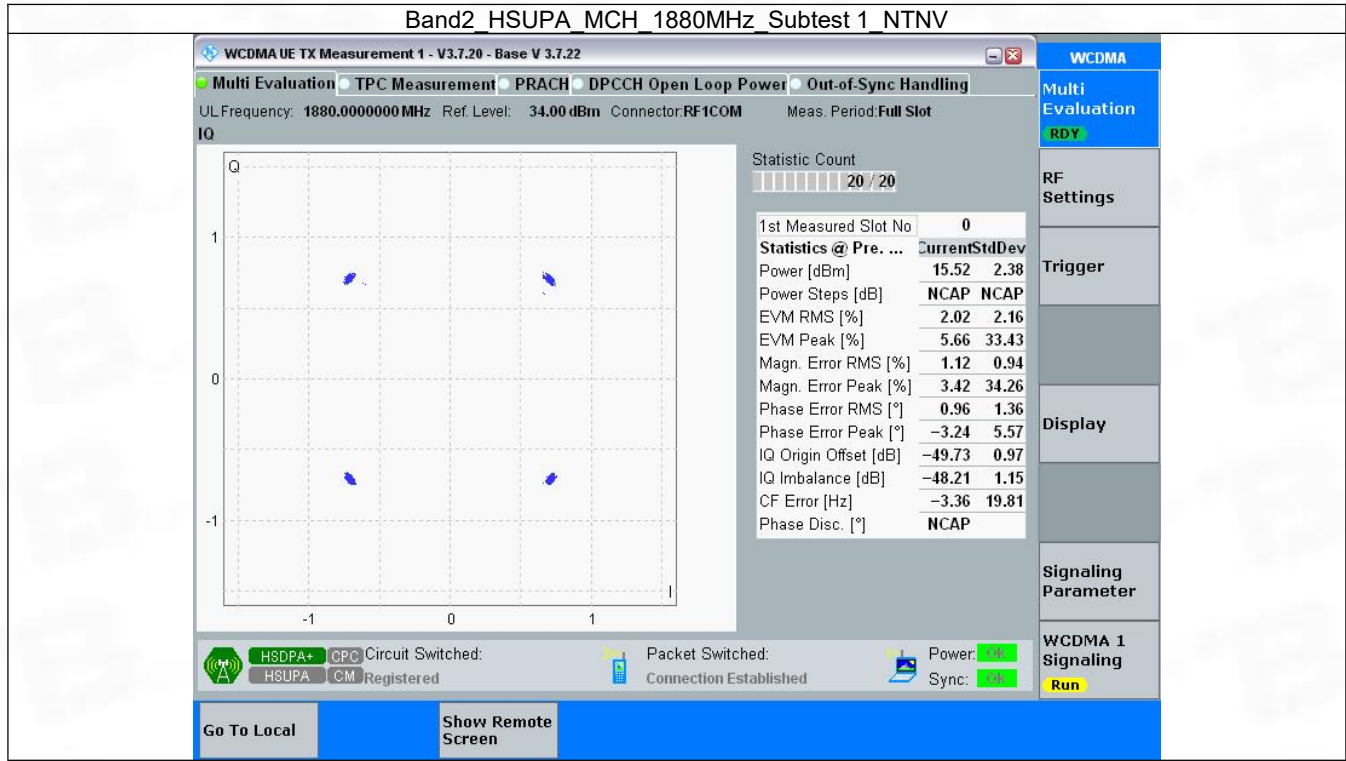


Test Report Number: BTF240419R00204

NTNV	RMC	12.2kbps RMC	1880	Refer To Test Graph	Pass
	HSDPA	Subtest 1	1880	Refer To Test Graph	Pass
	HSUPA	Subtest 1	1880	Refer To Test Graph	Pass

3.1.2 Test Graph





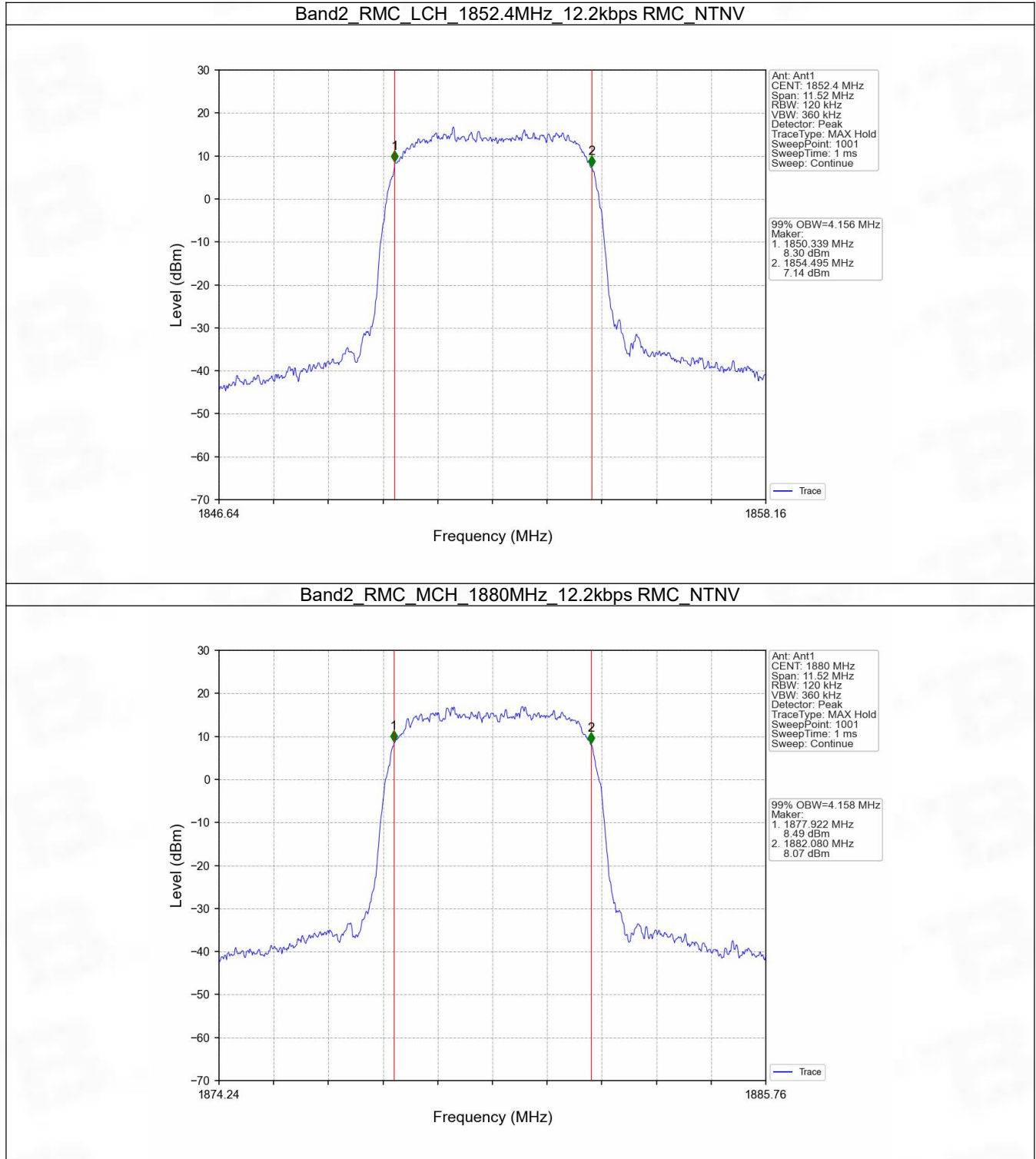
4. 99% & 26dB Bandwidth

4.1 Band2_OBW

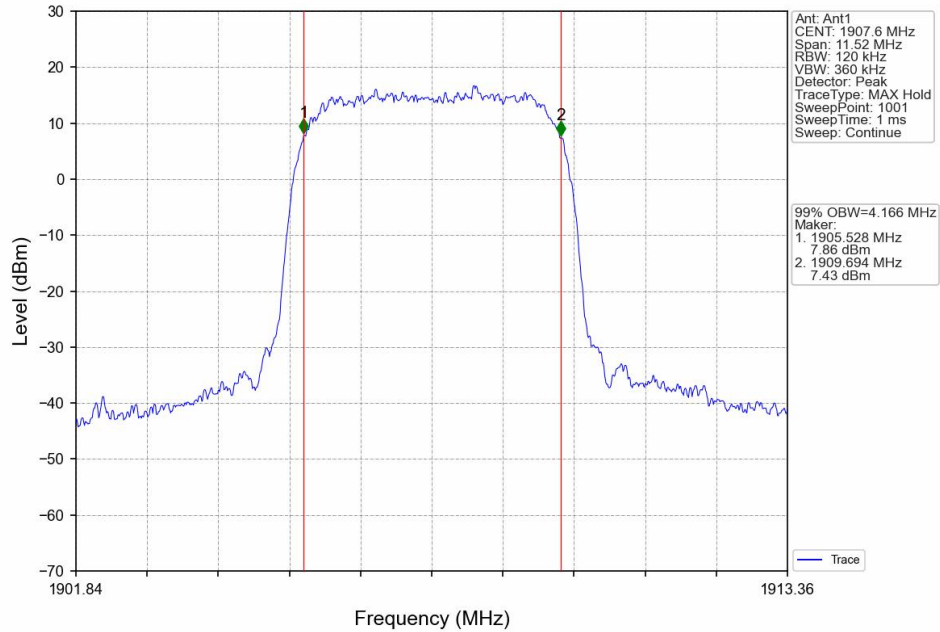
4.1.1 Test Result

Band: 2						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	4.156	/	Pass
			1880	4.158	/	Pass
			1907.6	4.166	/	Pass
	HSDPA	Subtest 1	1852.4	4.171	/	Pass
			1880	4.154	/	Pass
			1907.6	4.147	/	Pass
	HSUPA	Subtest 1	1852.4	4.165	/	Pass
			1880	4.165	/	Pass
			1907.6	4.141	/	Pass

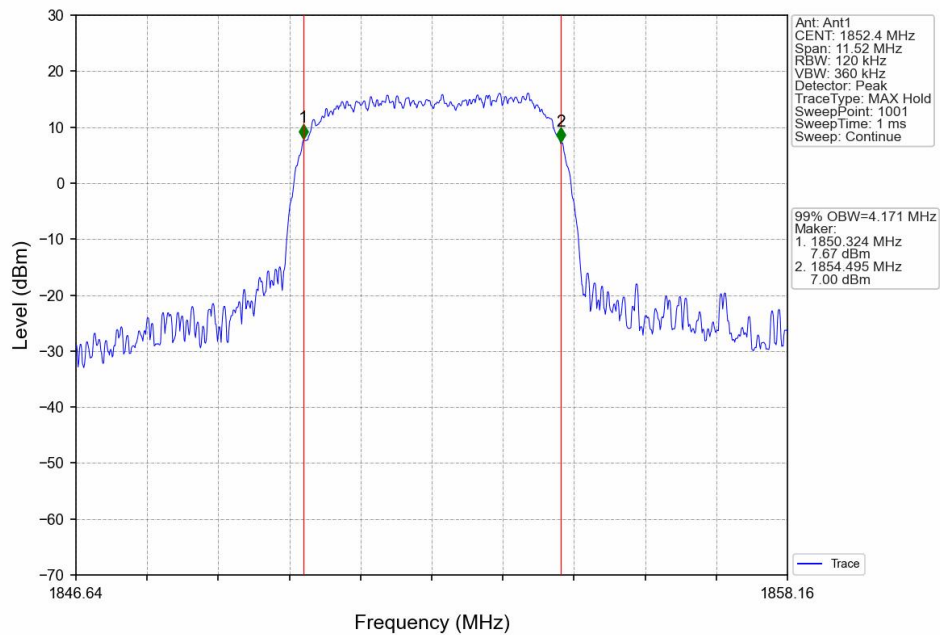
4.1.2 Test Graph



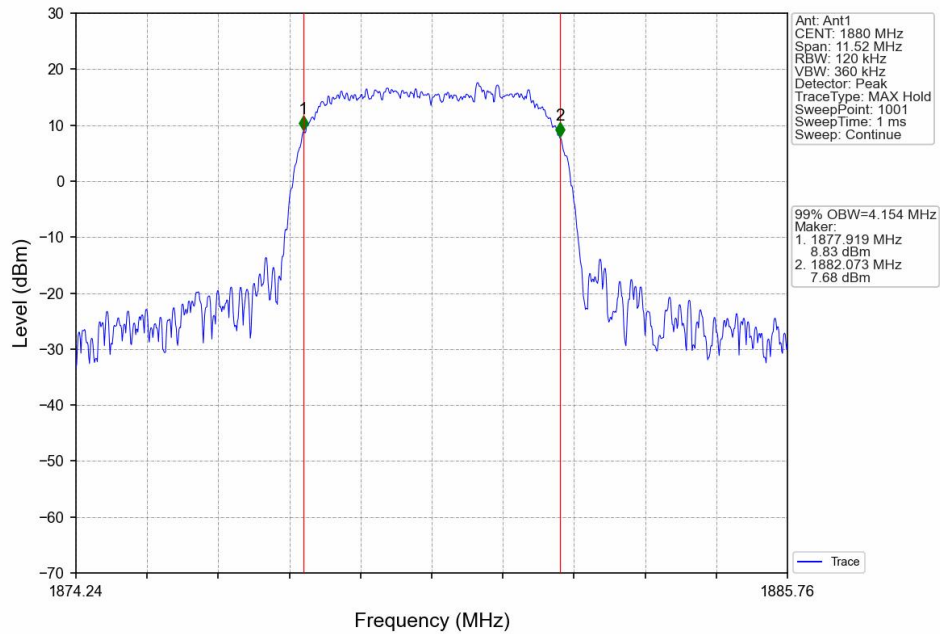
Band2_RMC_HCH_1907.6MHz_12.2kbps_RMC_NTNV



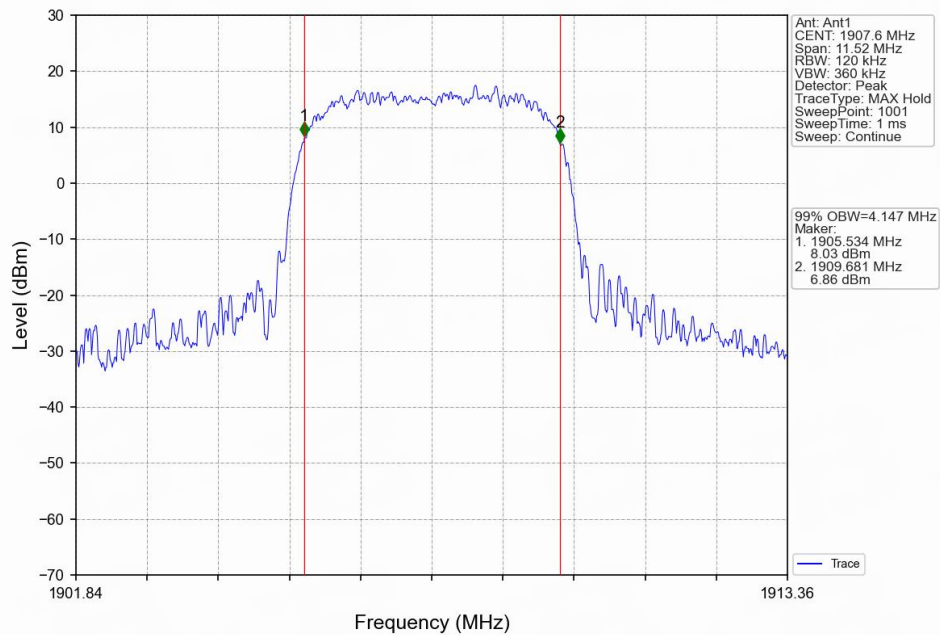
Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



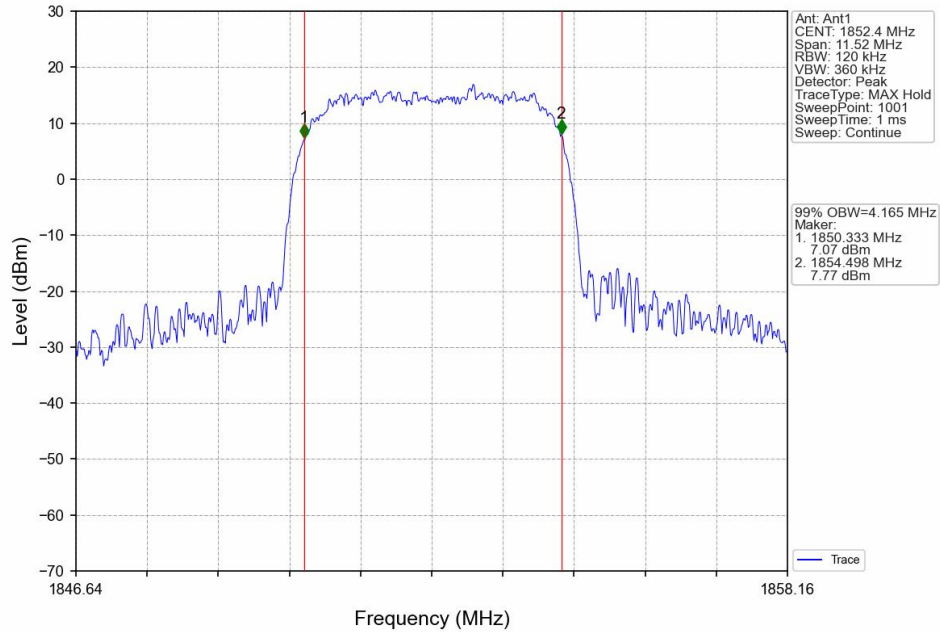
Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV



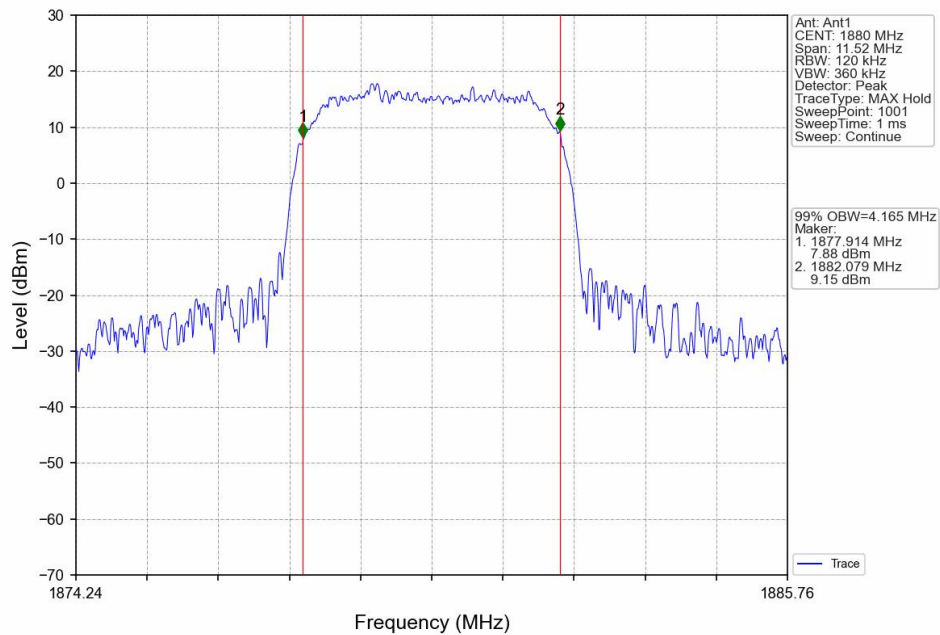
Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV

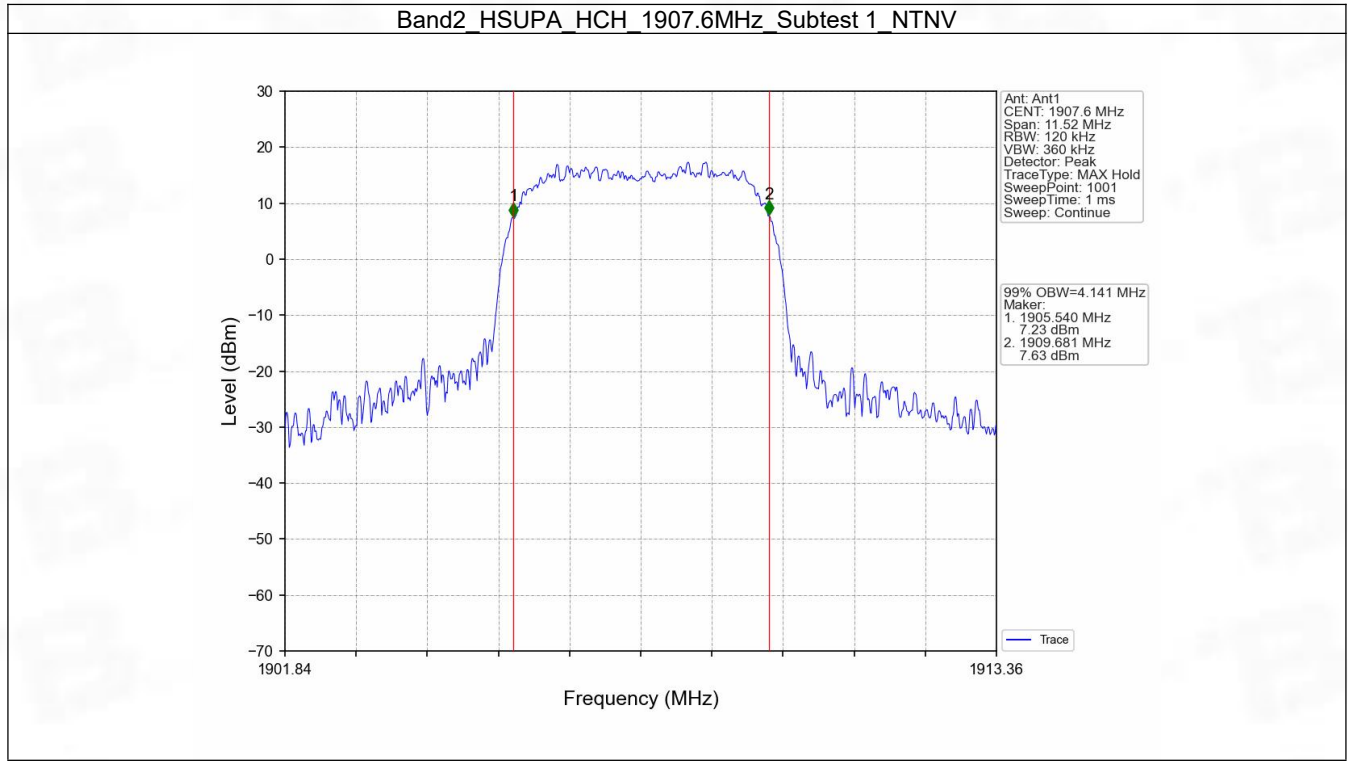


Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV



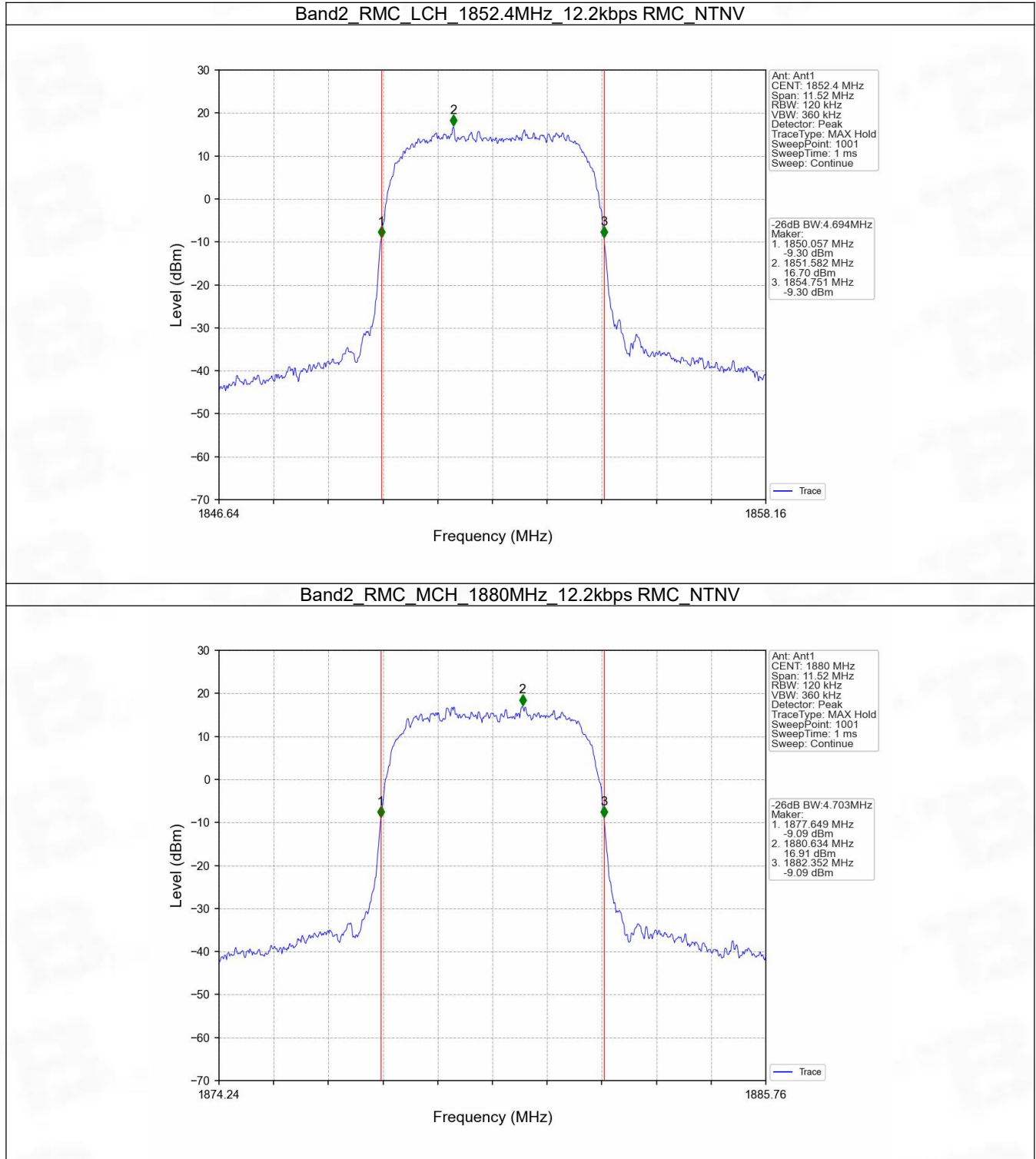


4.2 Band2_XDB

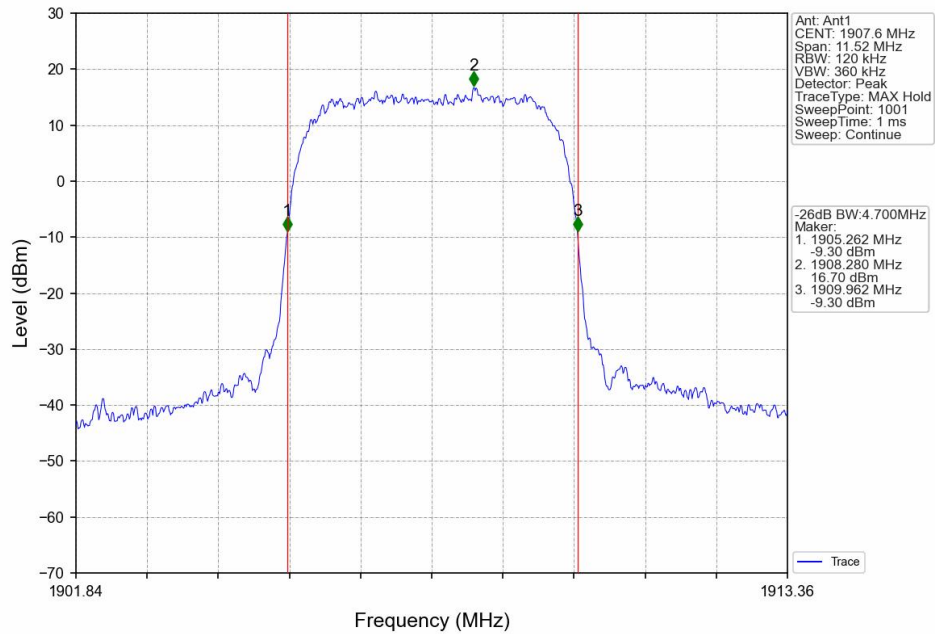
4.2.1 Test Result

Band: 2						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	4.694	/	Pass
			1880	4.703	/	Pass
			1907.6	4.700	/	Pass
	HSDPA	Subtest 1	1852.4	4.722	/	Pass
			1880	4.689	/	Pass
			1907.6	4.698	/	Pass
	HSUPA	Subtest 1	1852.4	4.713	/	Pass
			1880	4.690	/	Pass
			1907.6	4.693	/	Pass

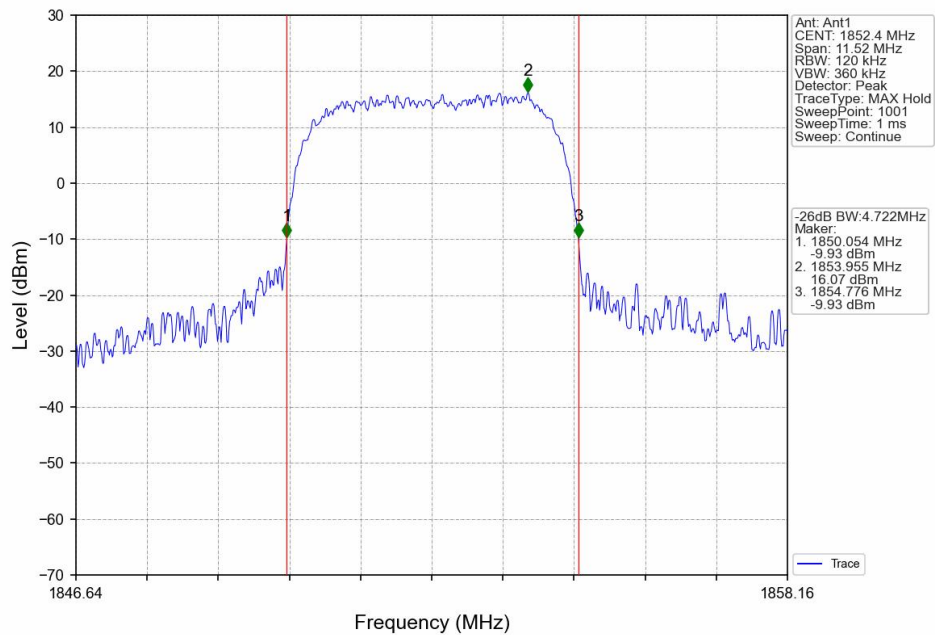
4.2.2 Test Graph



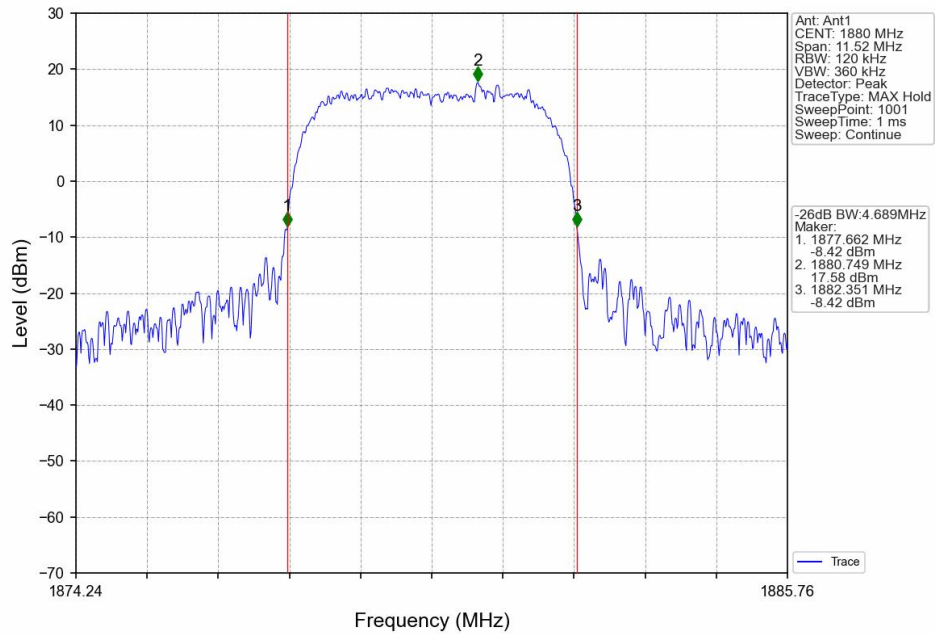
Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



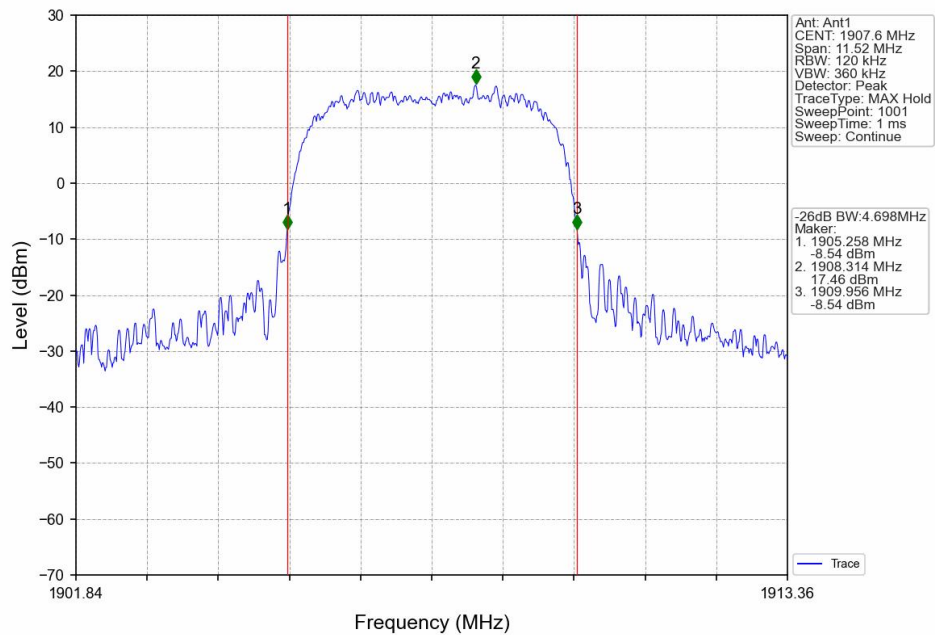
Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



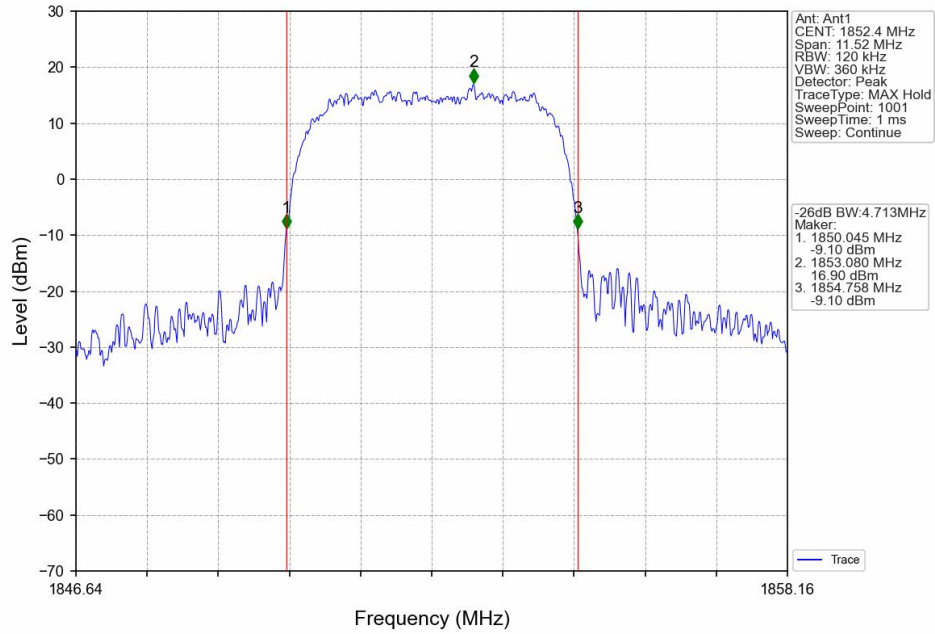
Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV



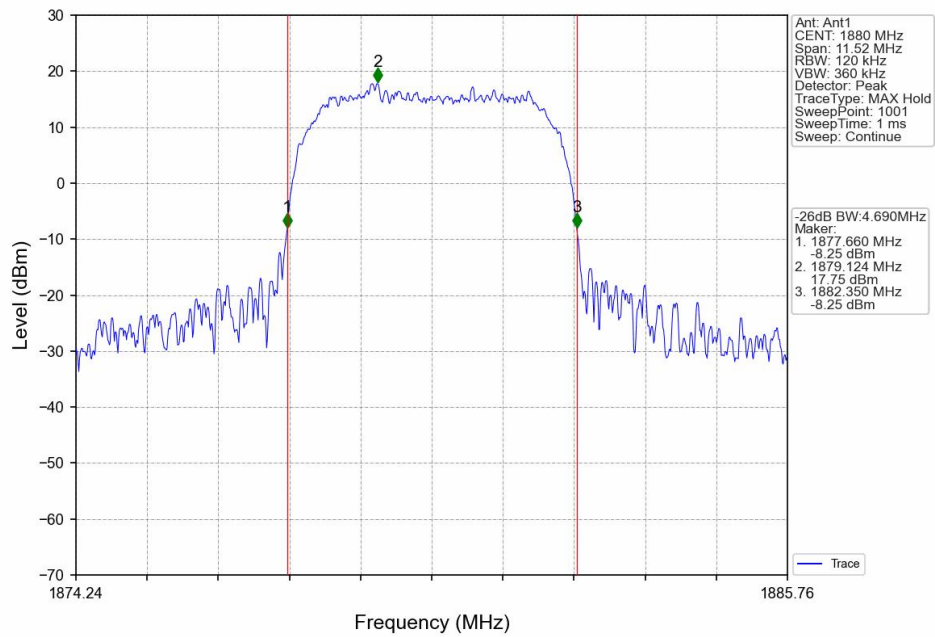
Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV

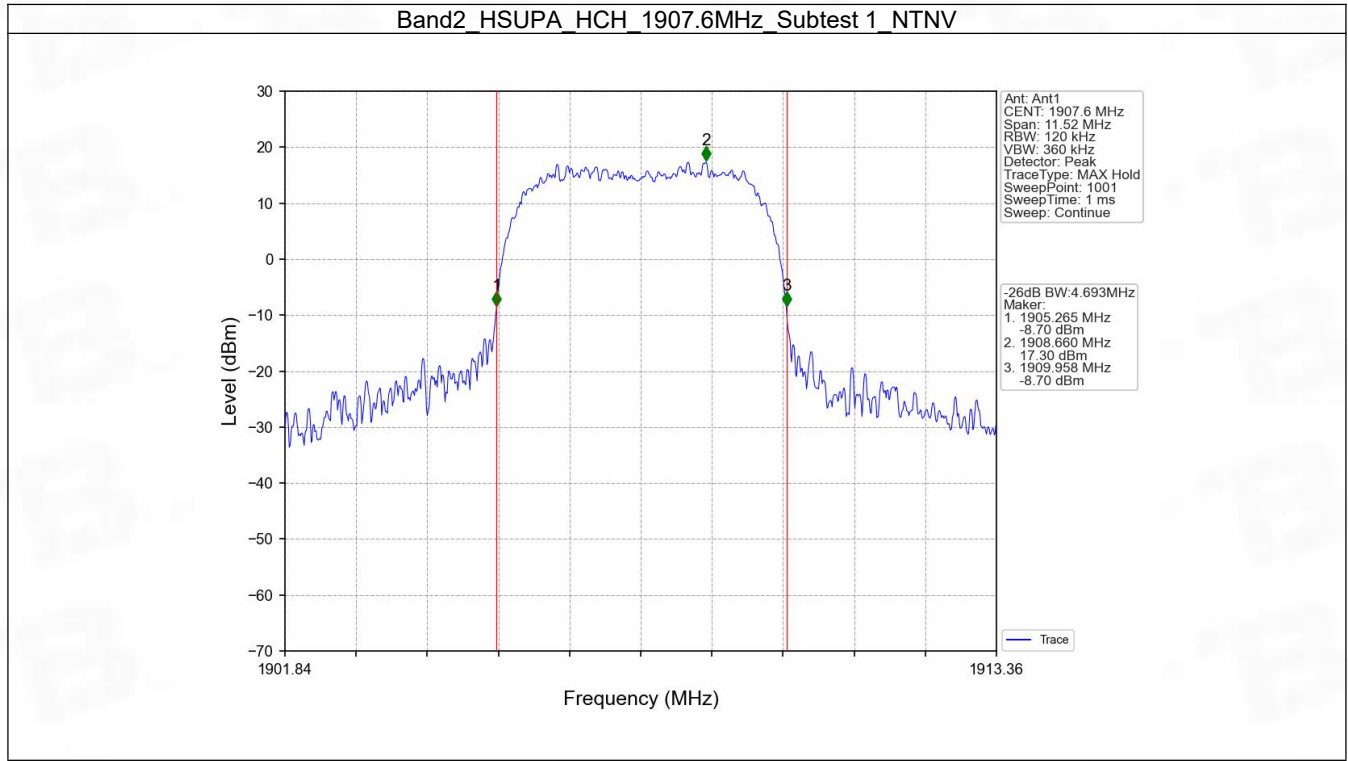


Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV





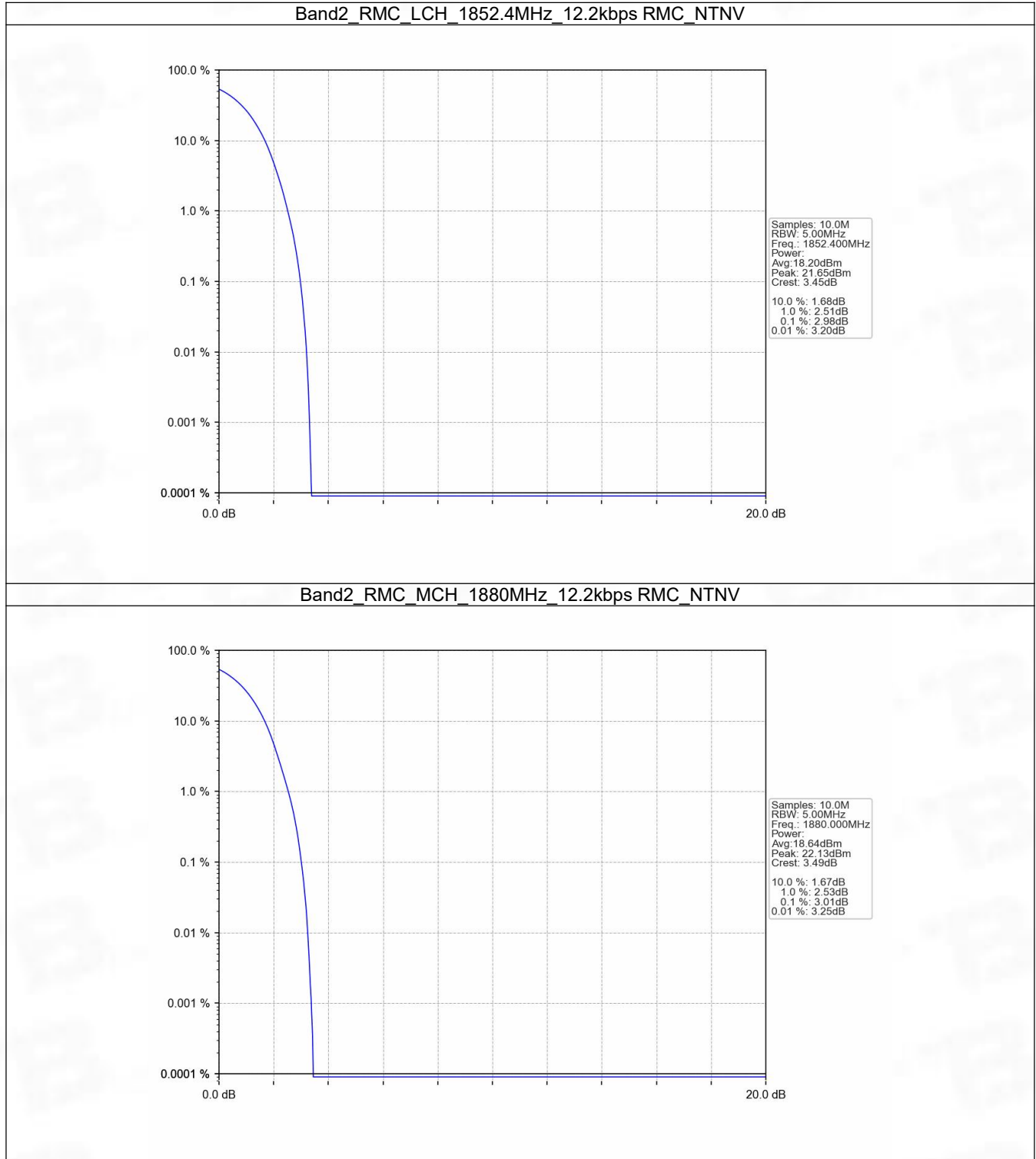
5. Peak-Average Ratio

5.1 Band2

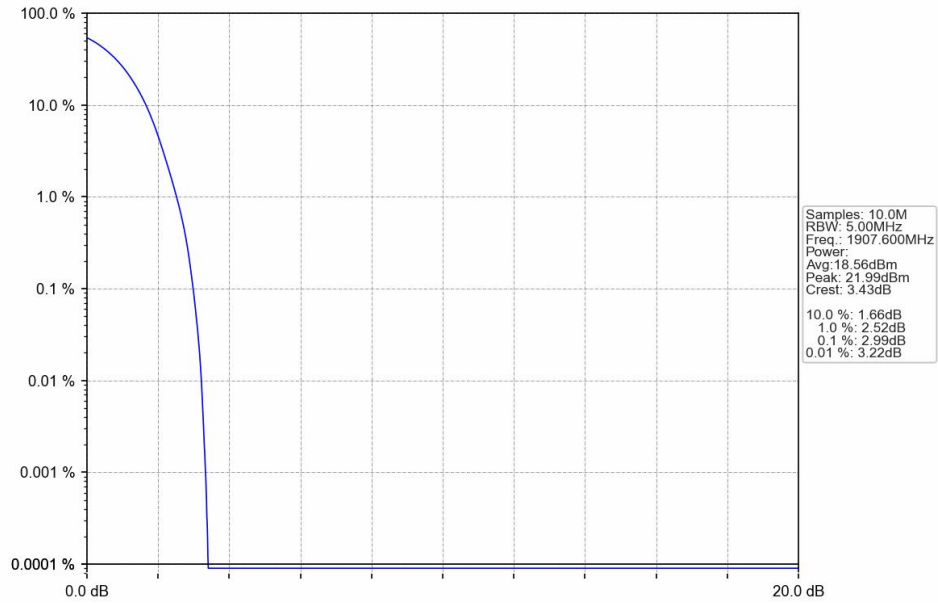
5.1.1 Test Result

Band: 2						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	2.98	<=13	Pass
			1880	3.01	<=13	Pass
			1907.6	2.99	<=13	Pass
	HSDPA	Subtest 1	1852.4	5.68	<=13	Pass
			1880	5.86	<=13	Pass
			1907.6	5.61	<=13	Pass
	HSUPA	Subtest 1	1852.4	5.64	<=13	Pass
			1880	5.65	<=13	Pass
			1907.6	5.62	<=13	Pass

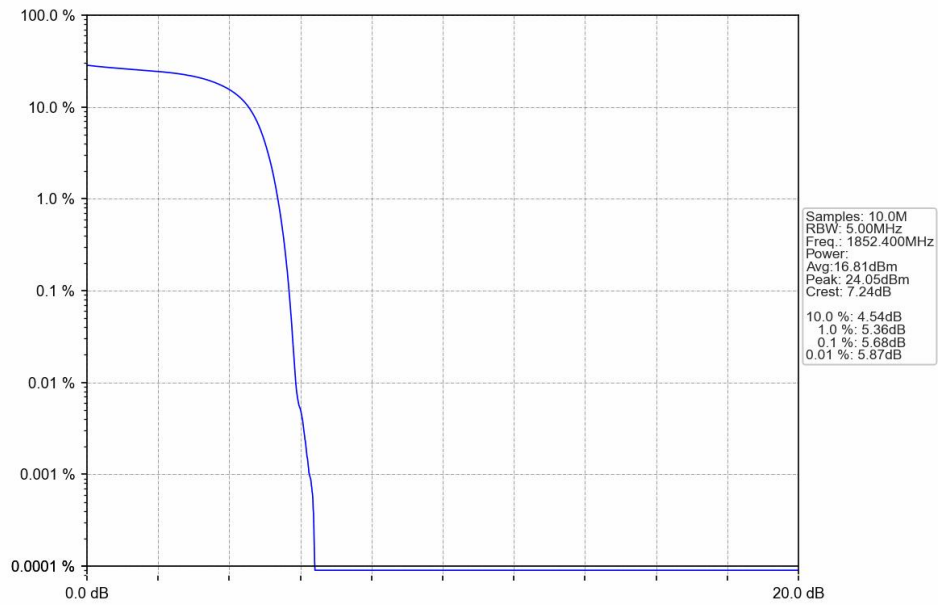
5.1.2 Test Graph



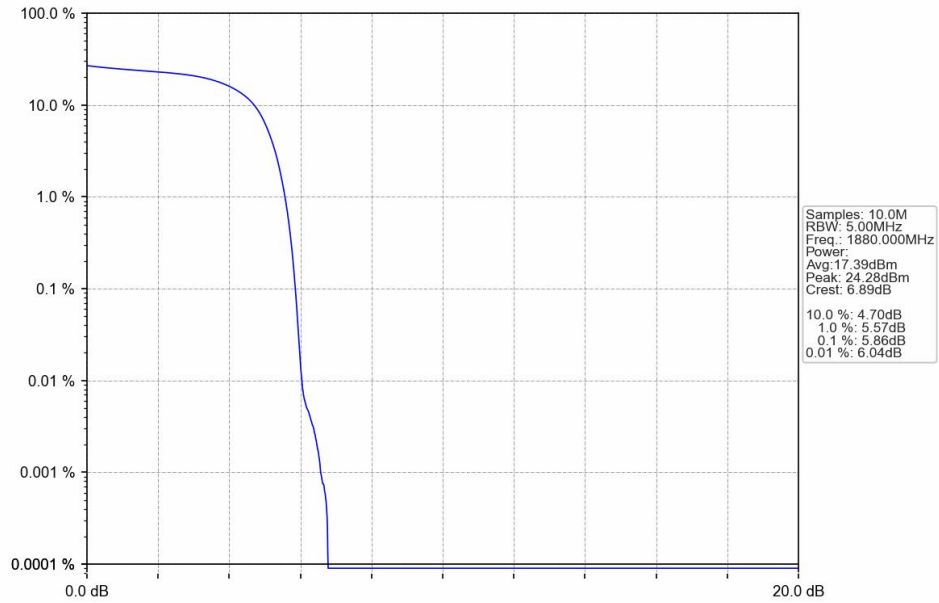
Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



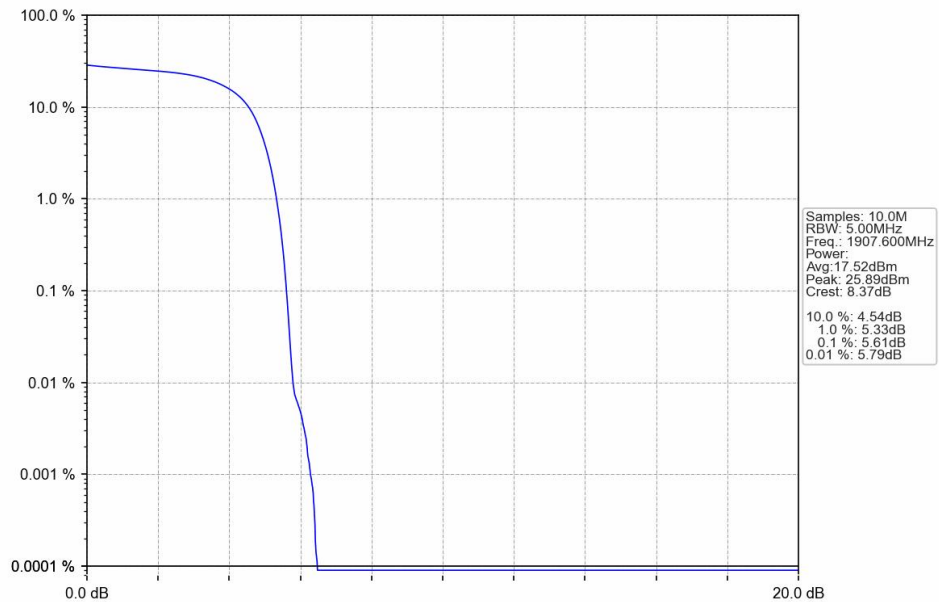
Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



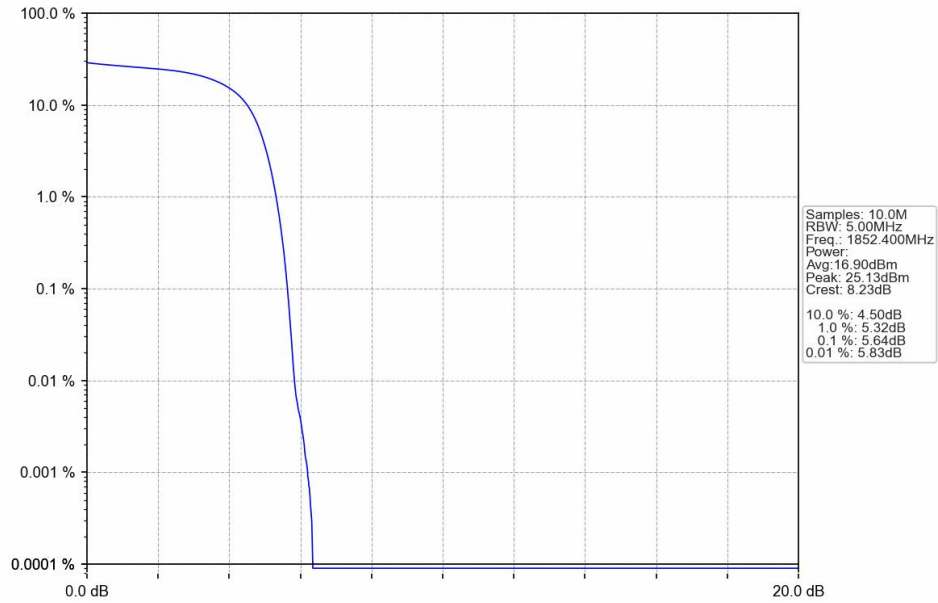
Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV



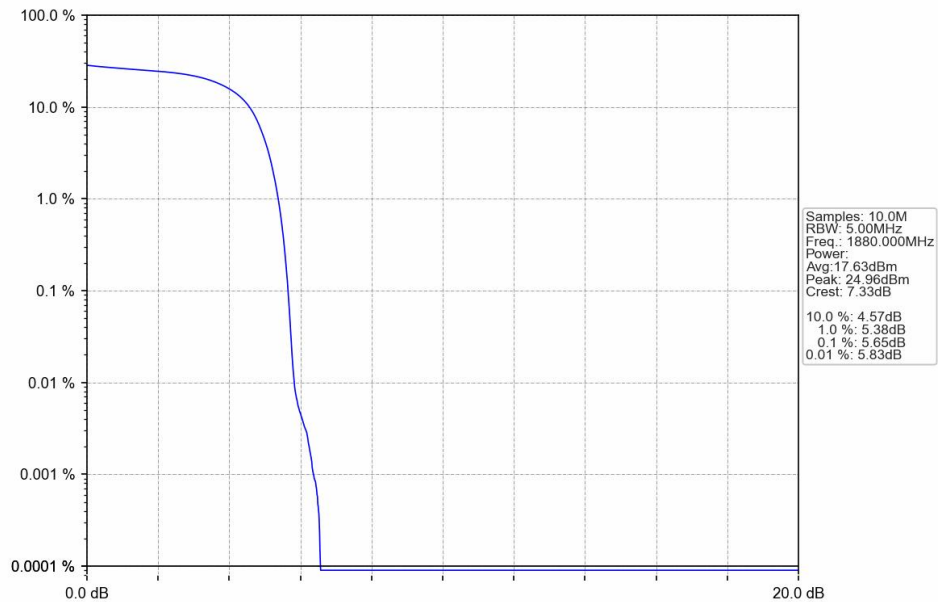
Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV

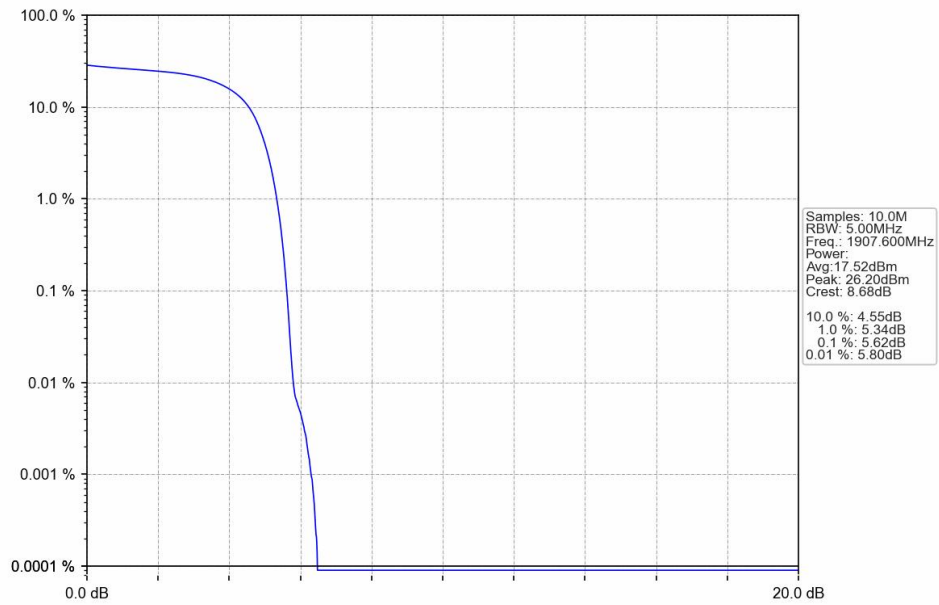


Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV



Band2_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV

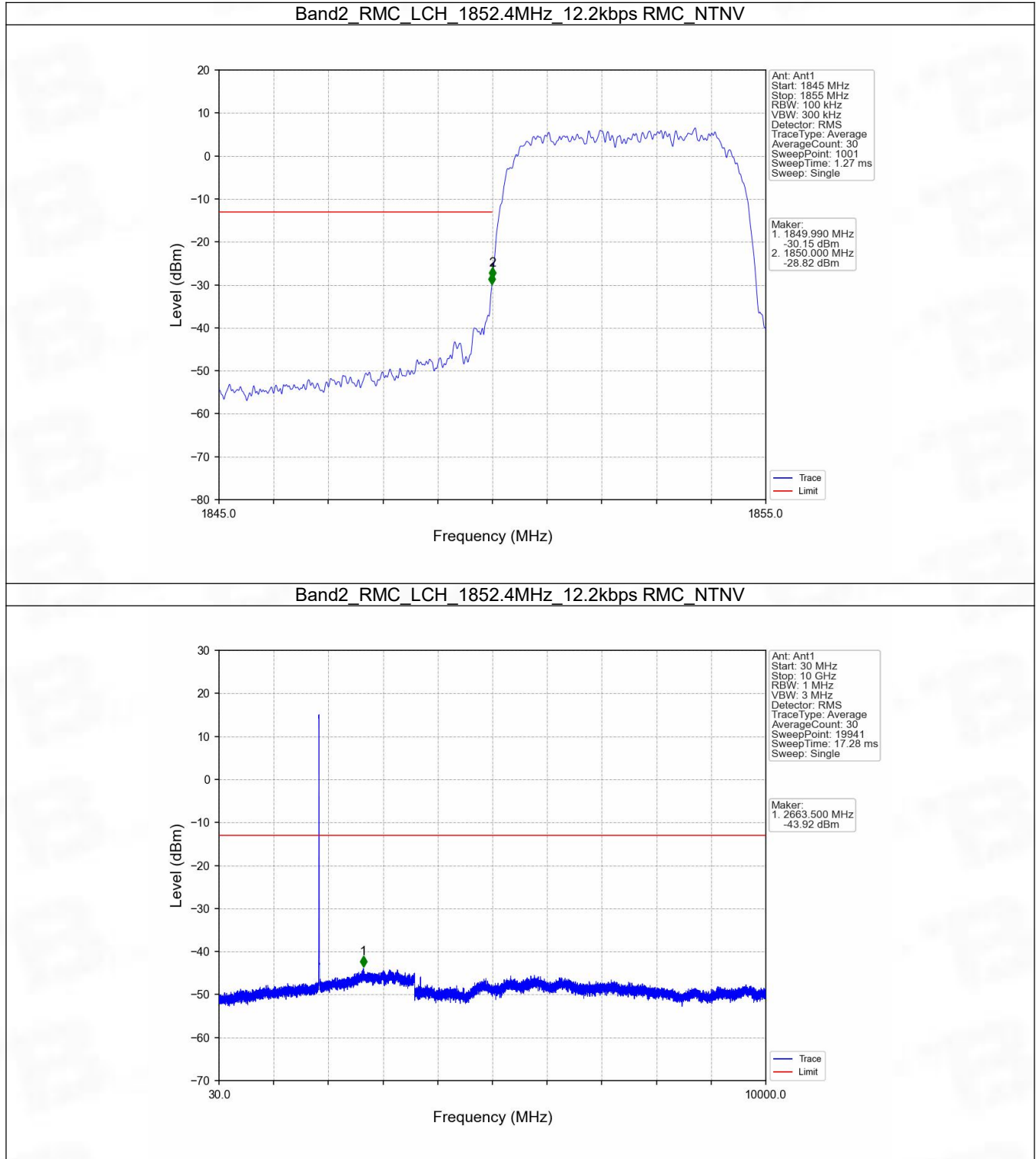
6. Spurious Emission

6.1 Band2

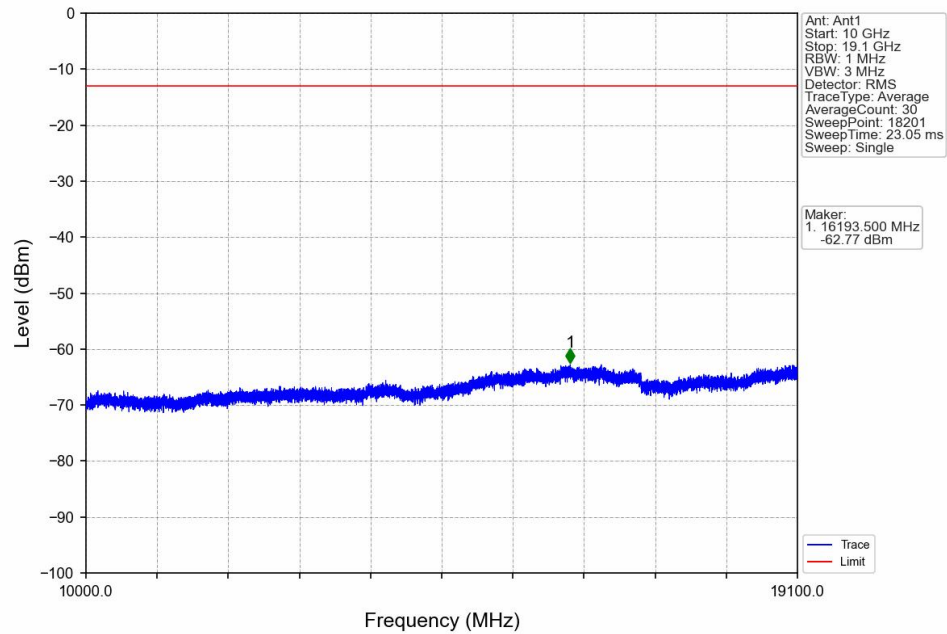
6.1.1 Test Result

Band: 2						
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	

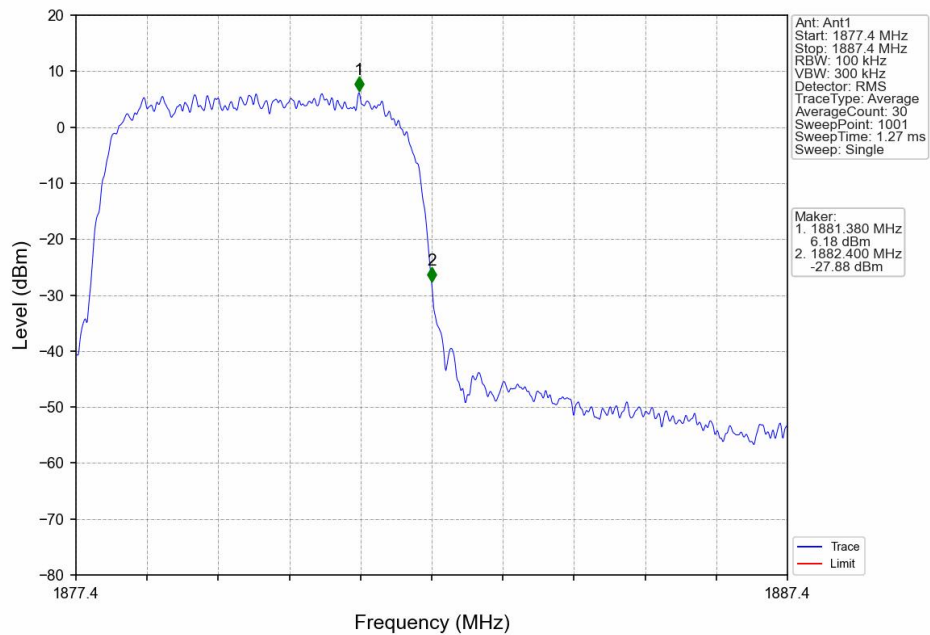
6.1.2 Test Graph



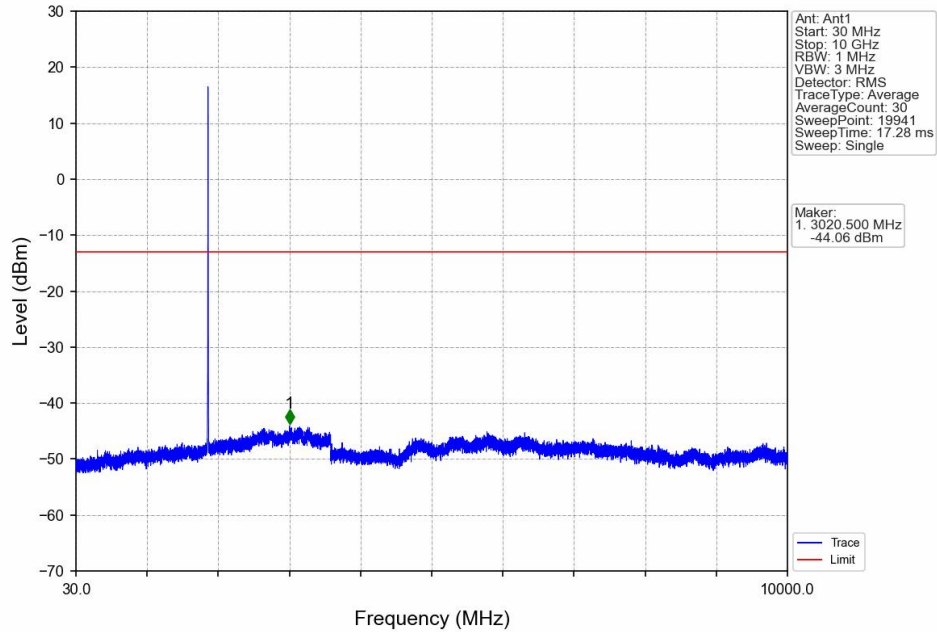
Band2_RMC_LCH_1852.4MHz_12.2kbps RMC_NTNV



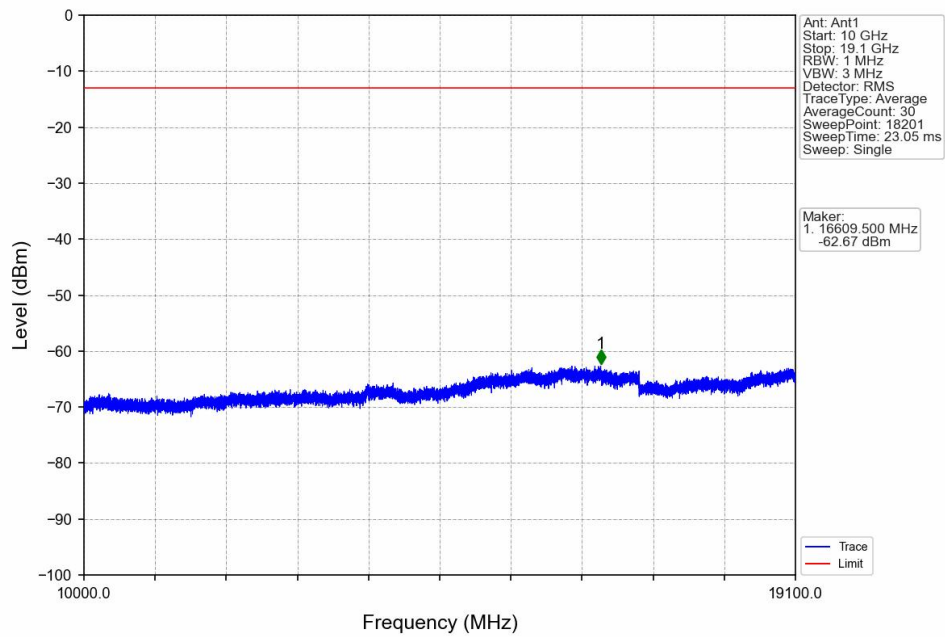
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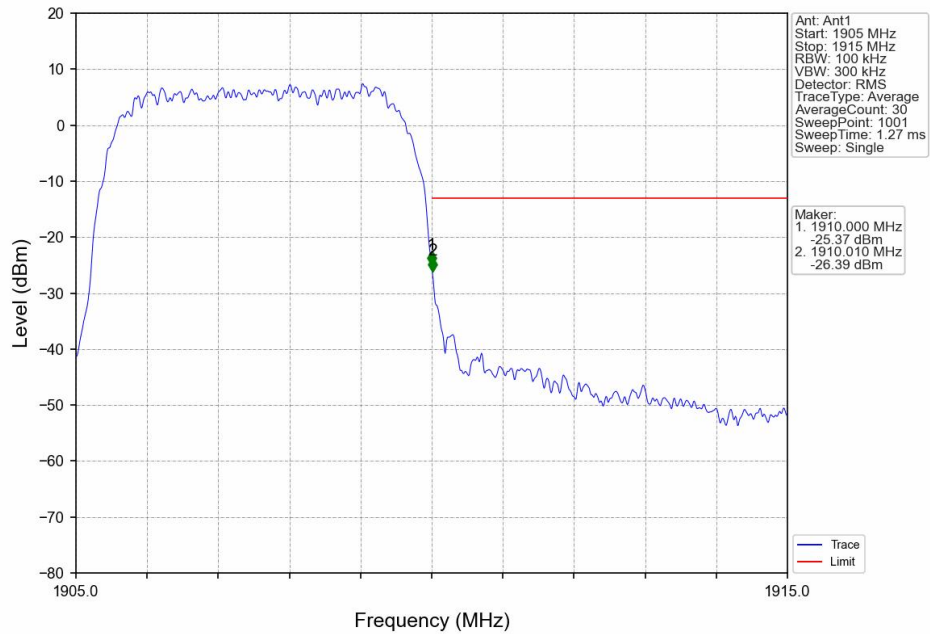
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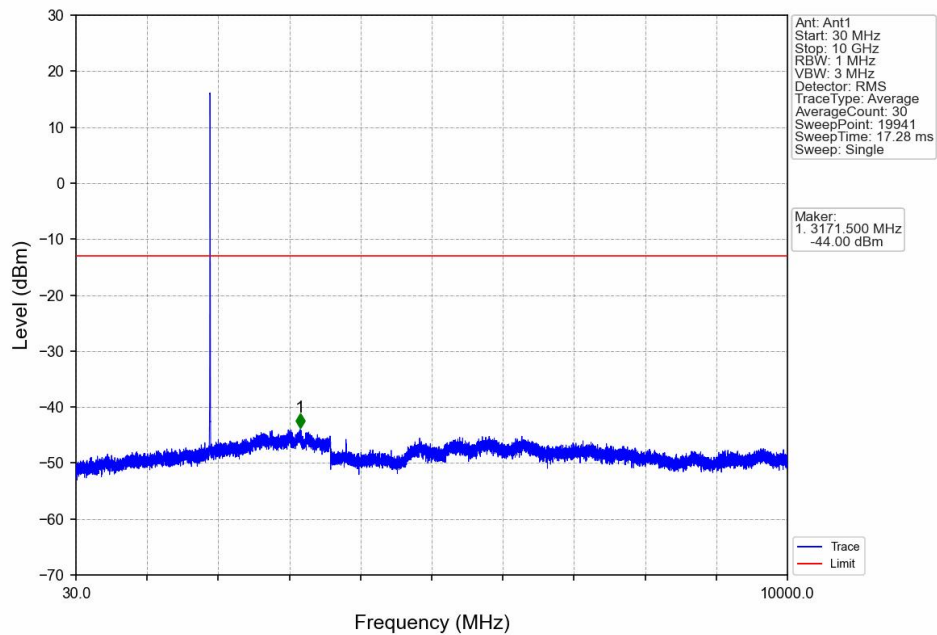
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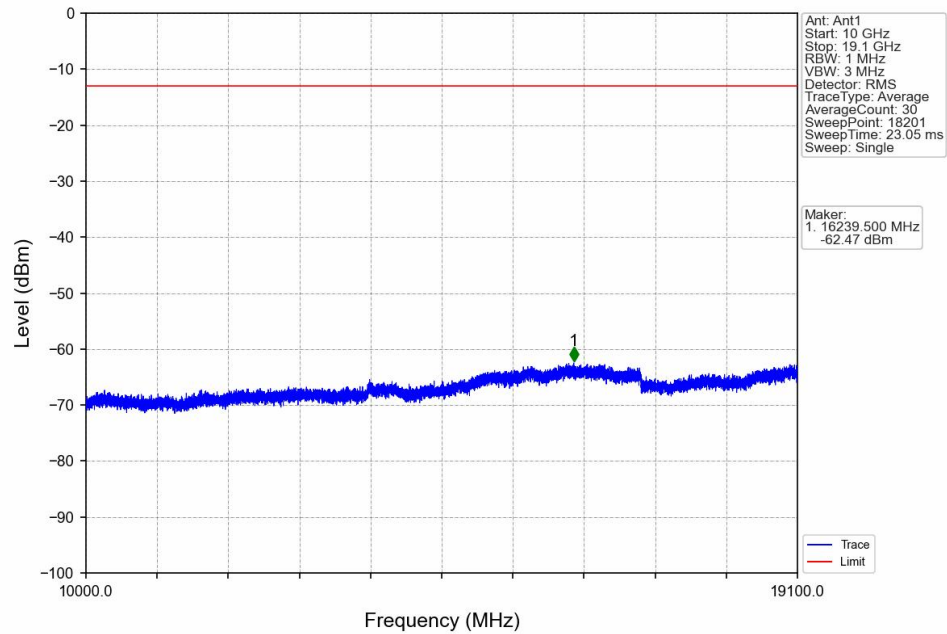
Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



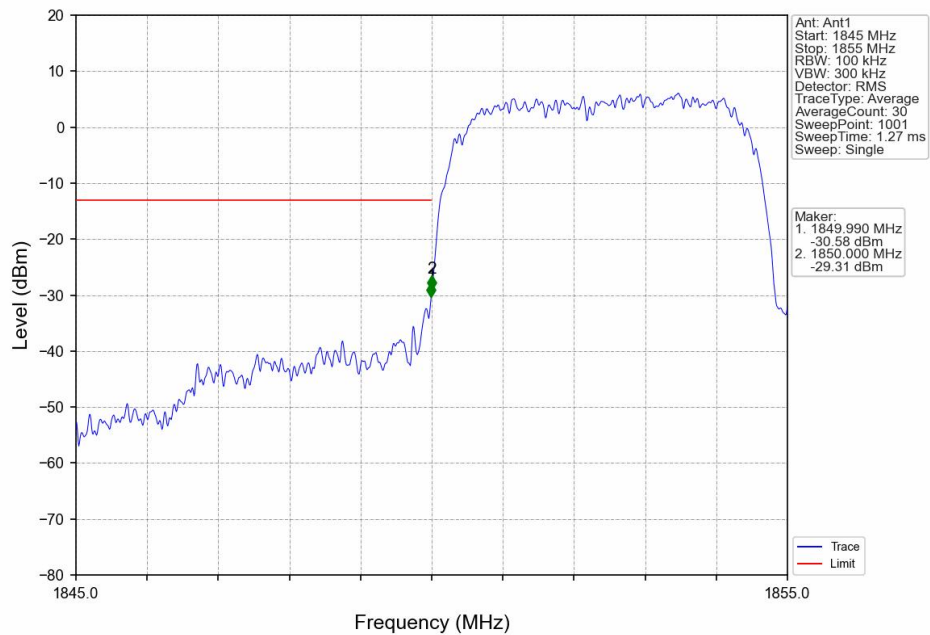
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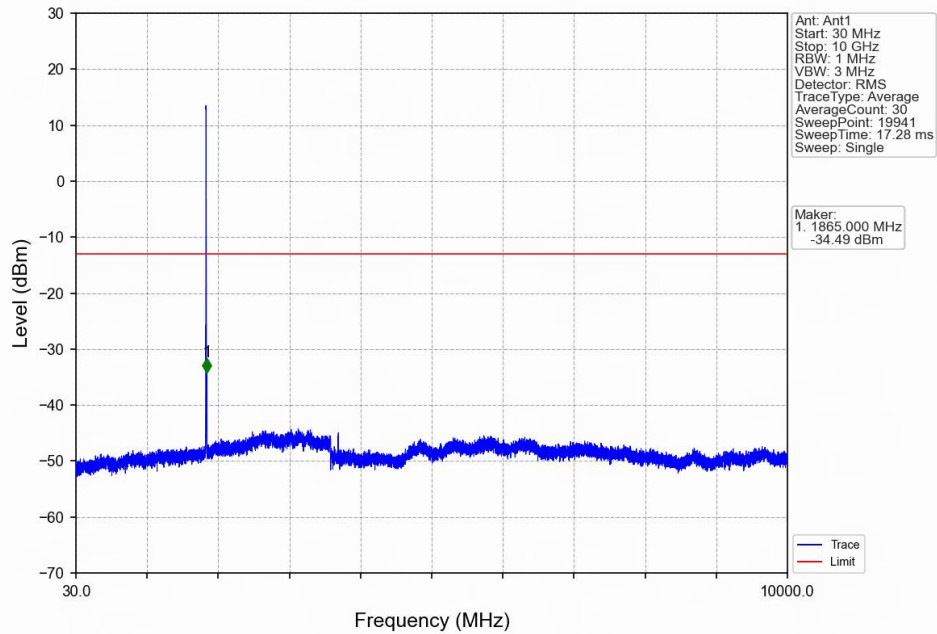
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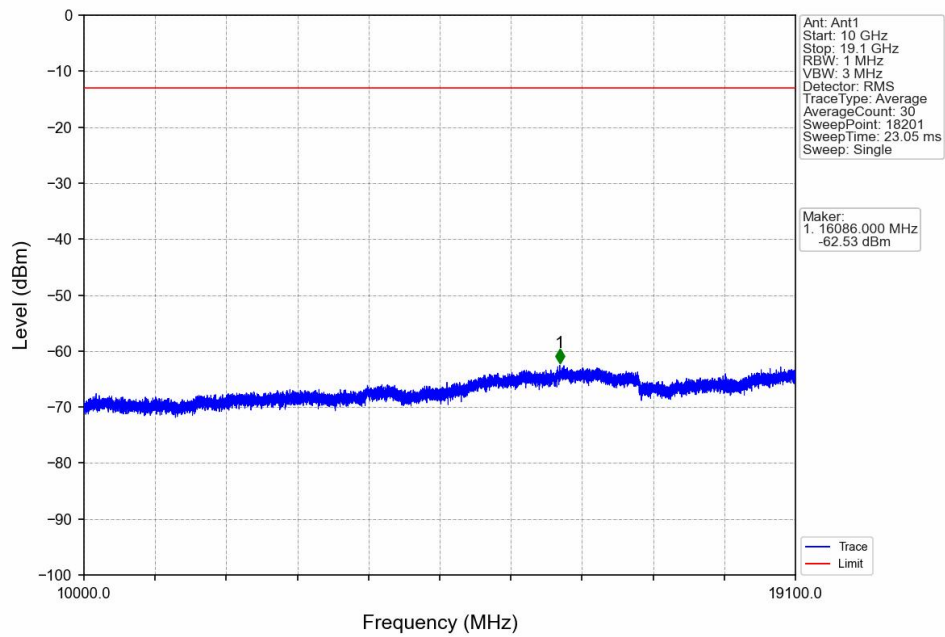
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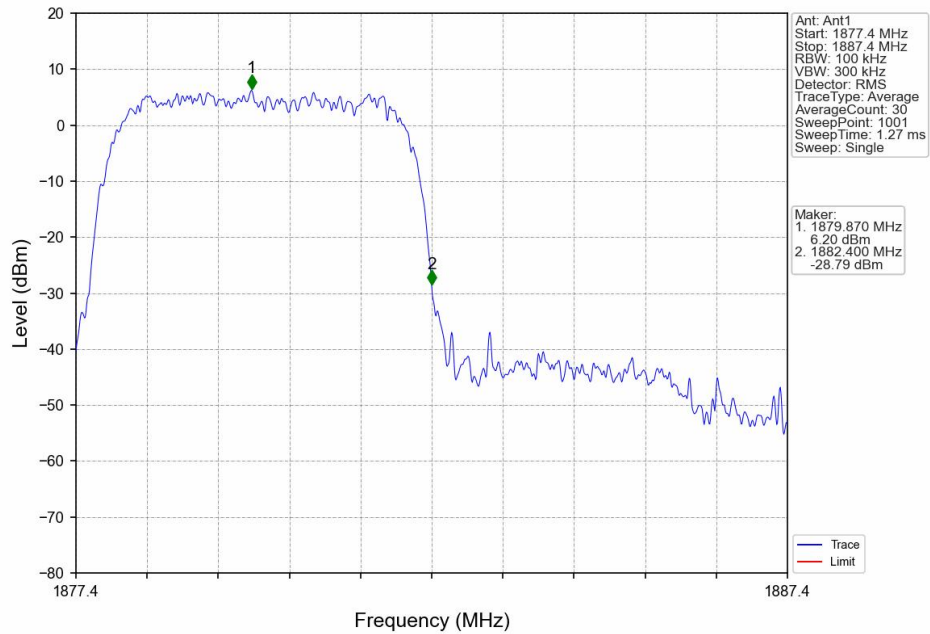
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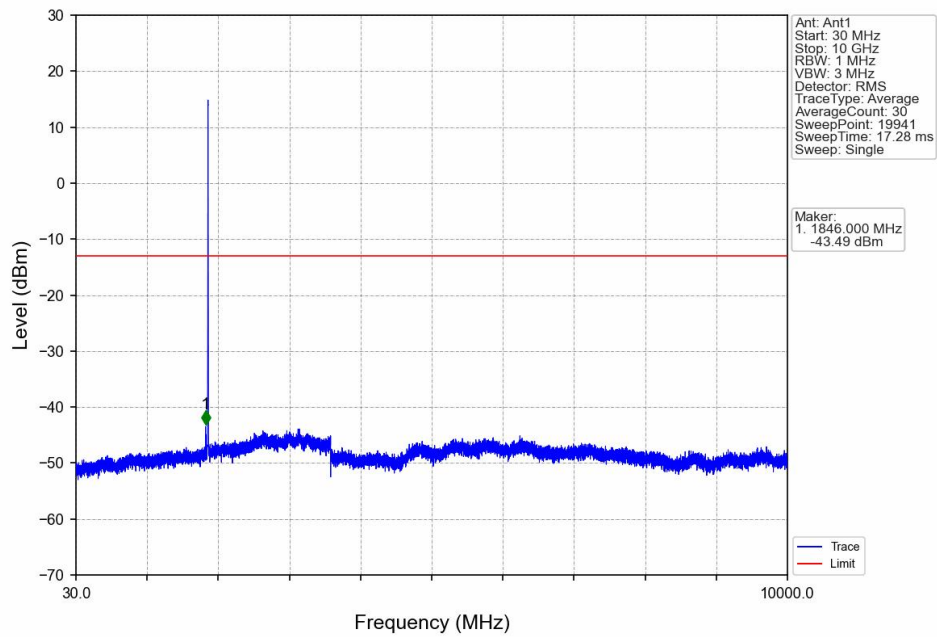
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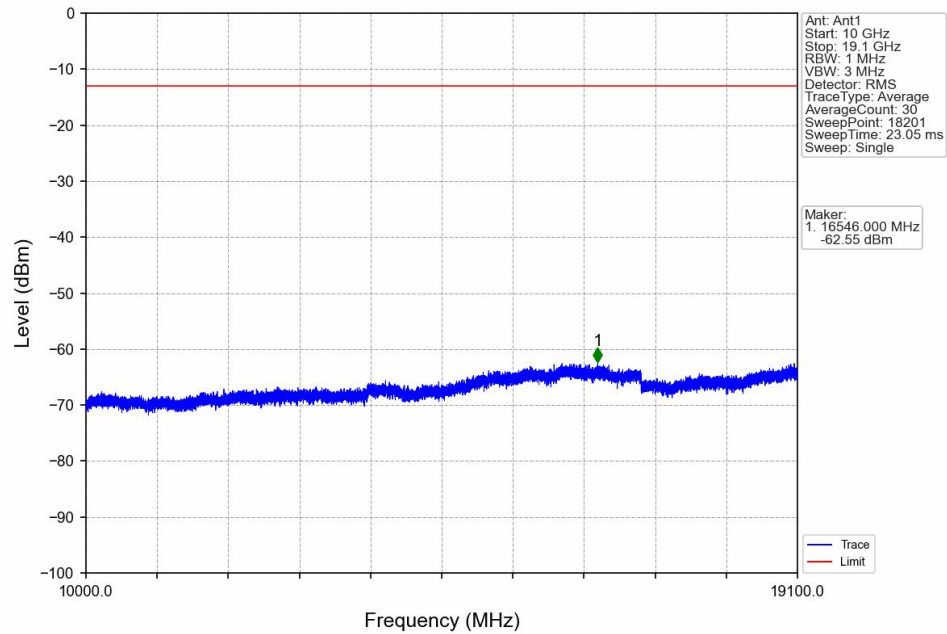
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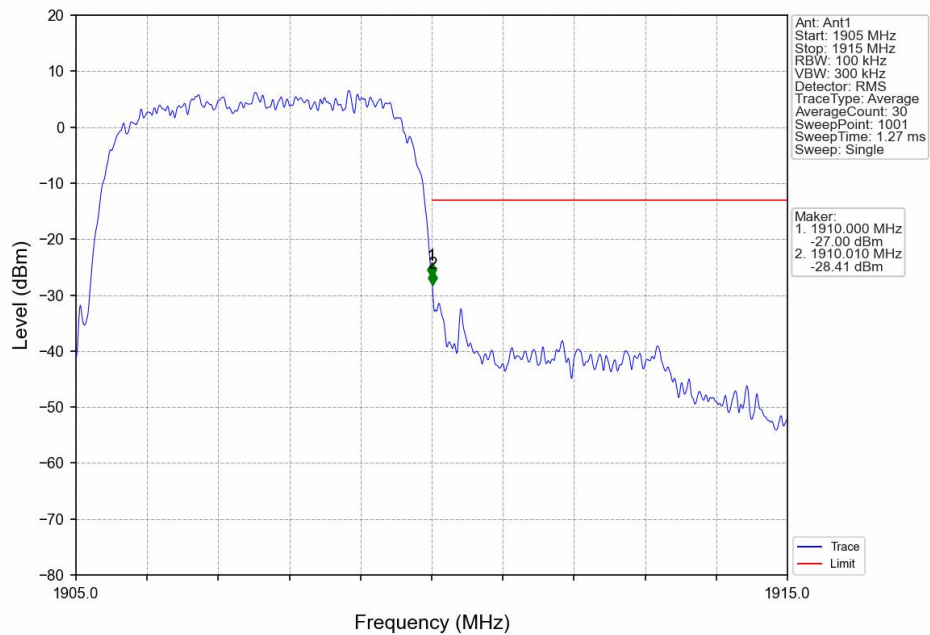
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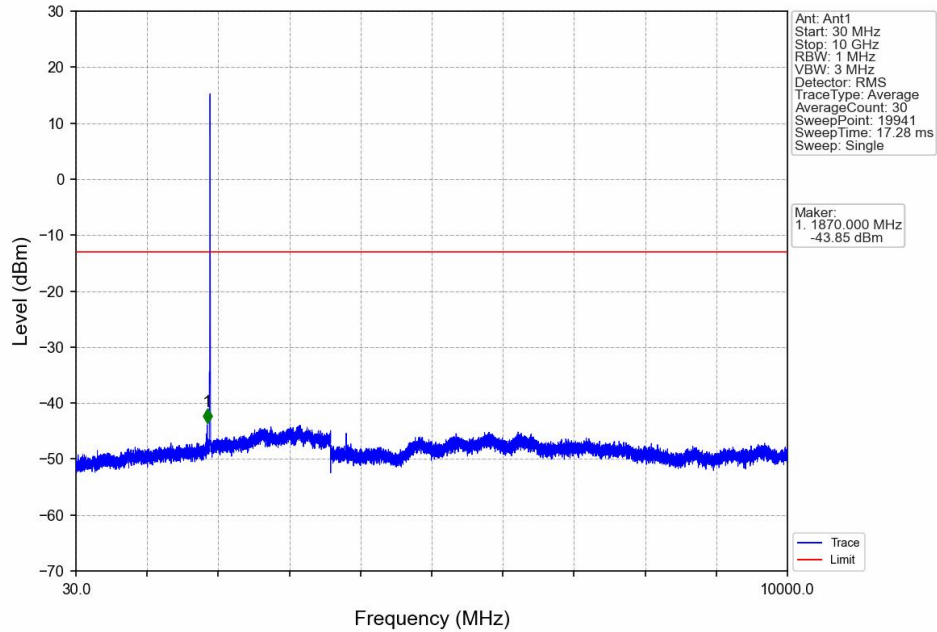
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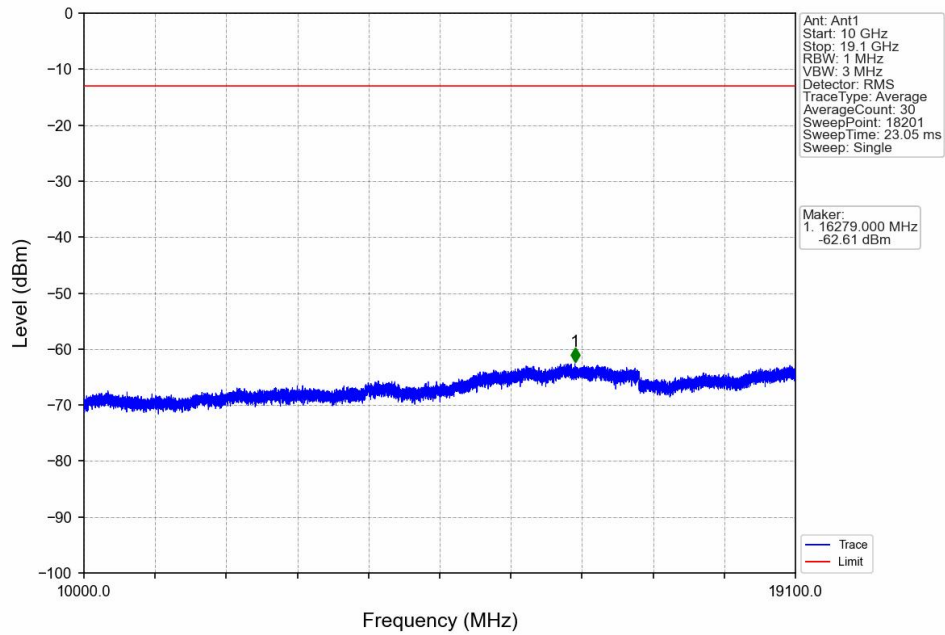
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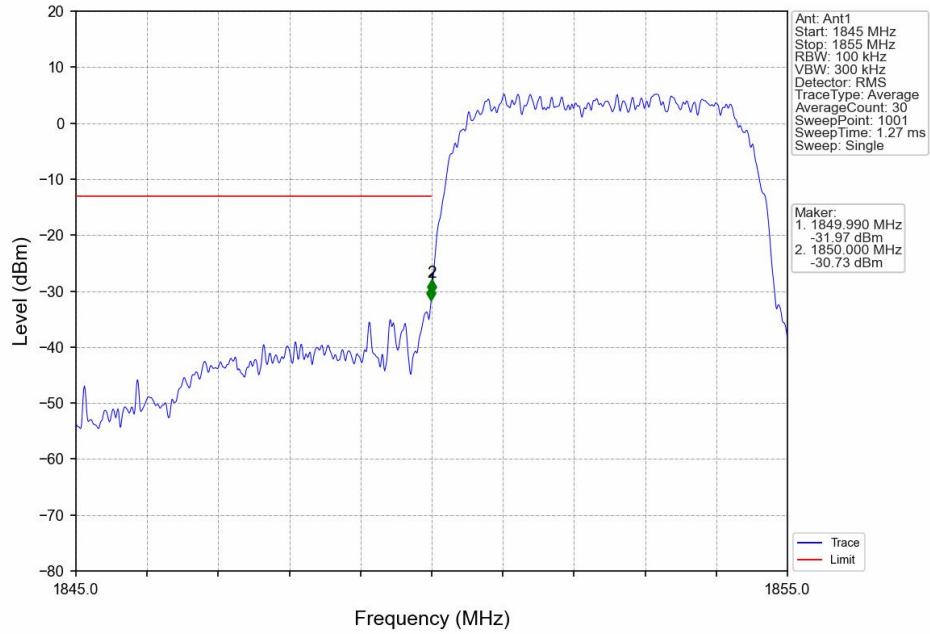
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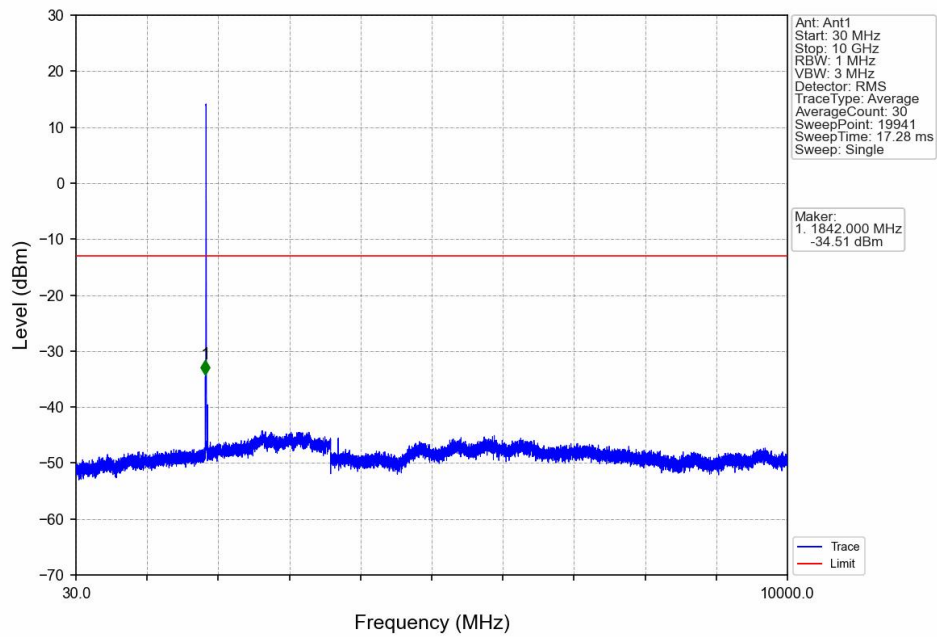
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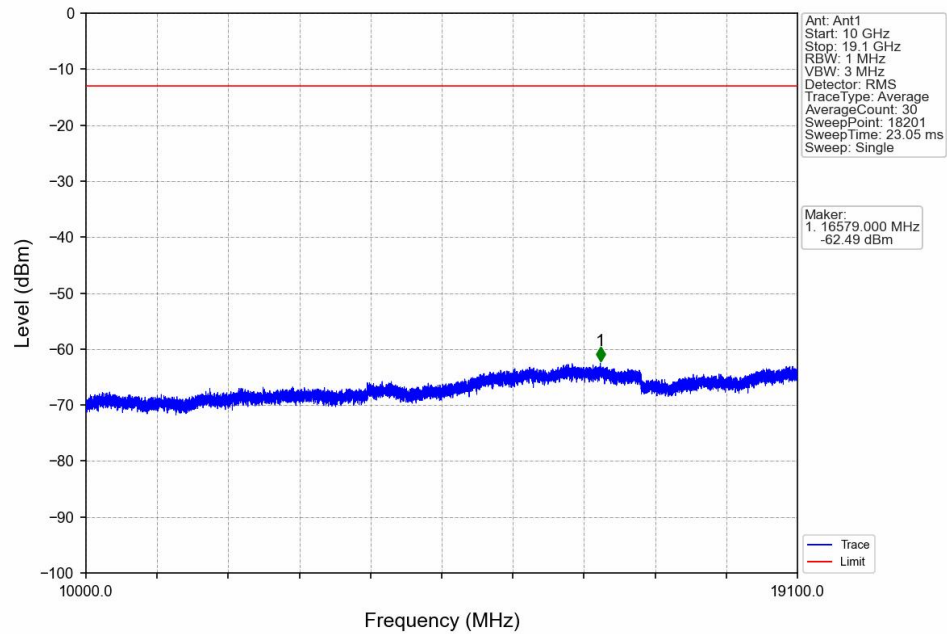
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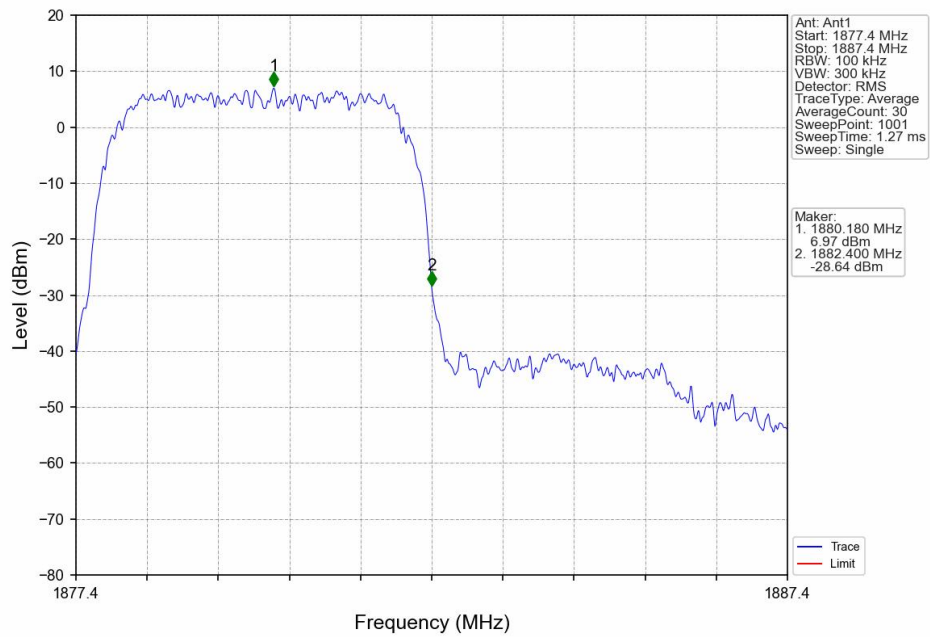
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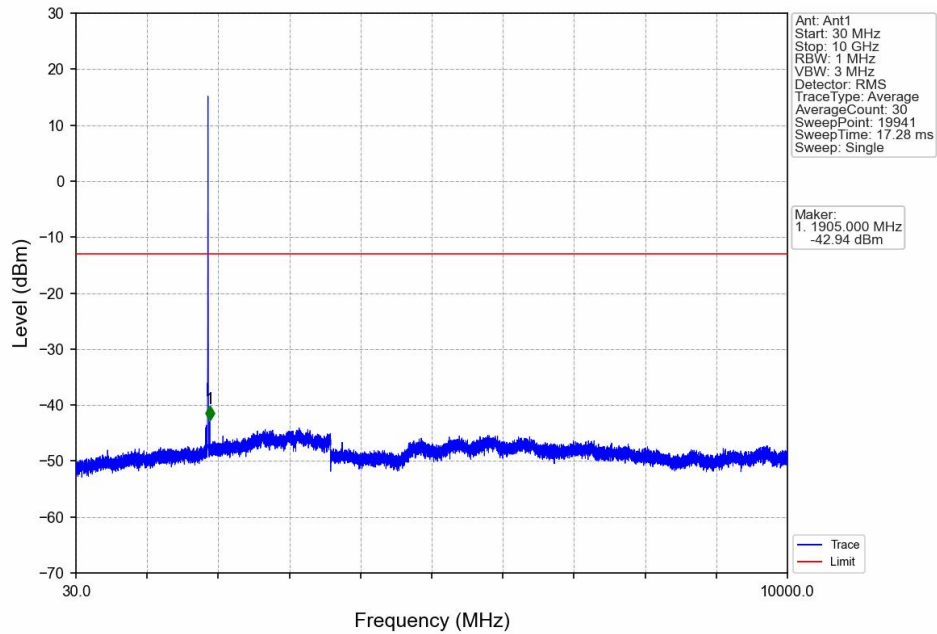
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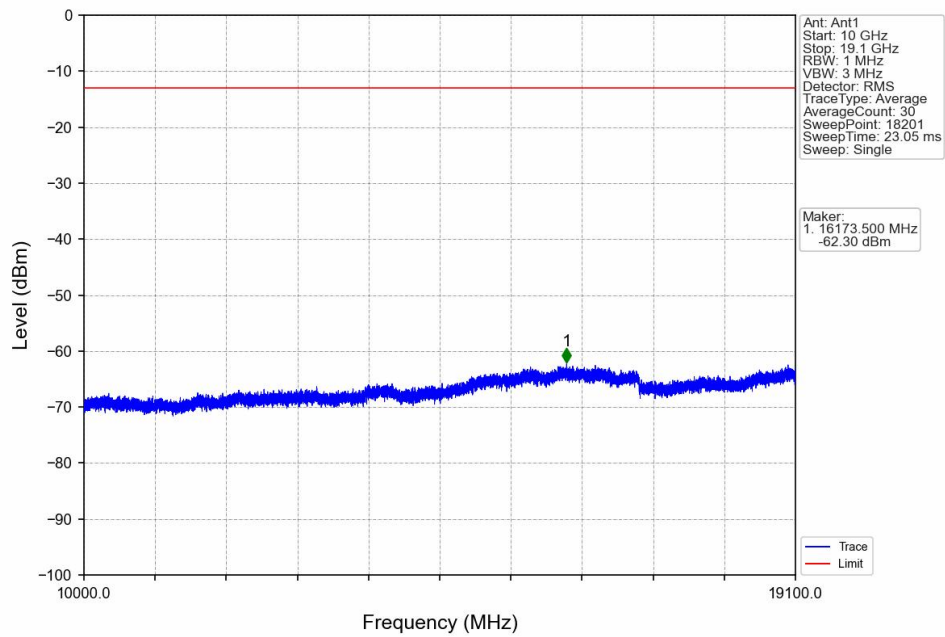
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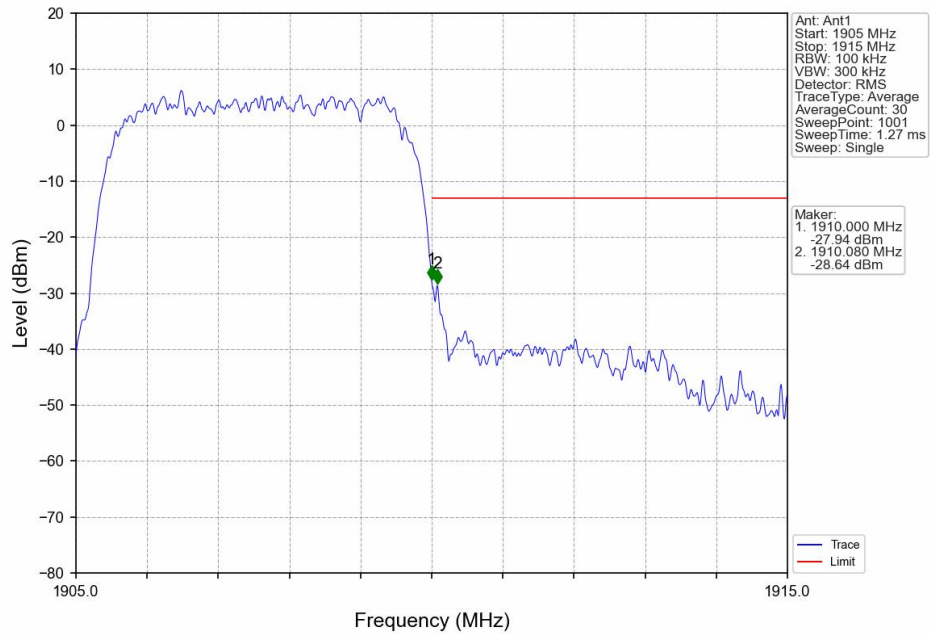
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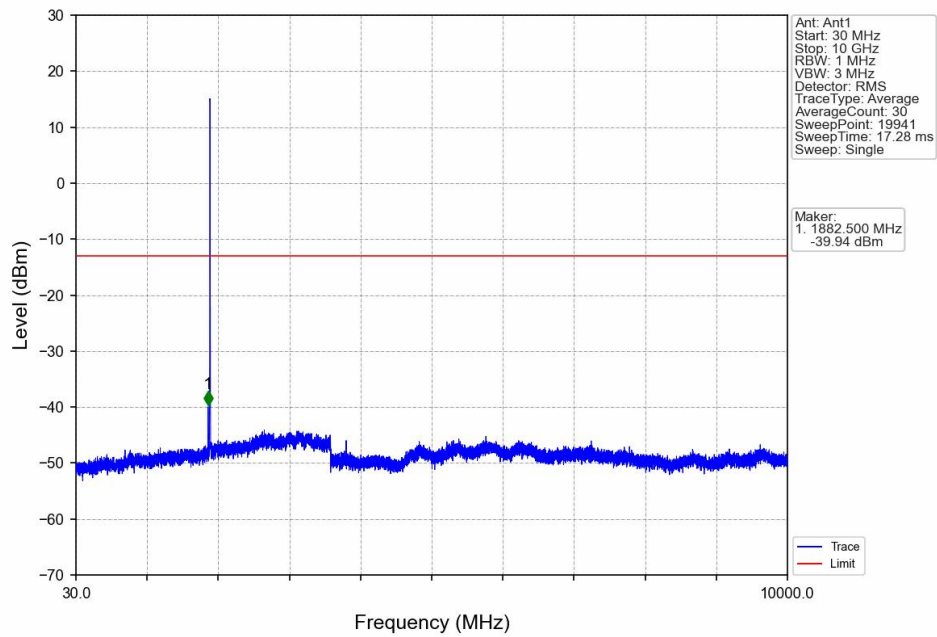
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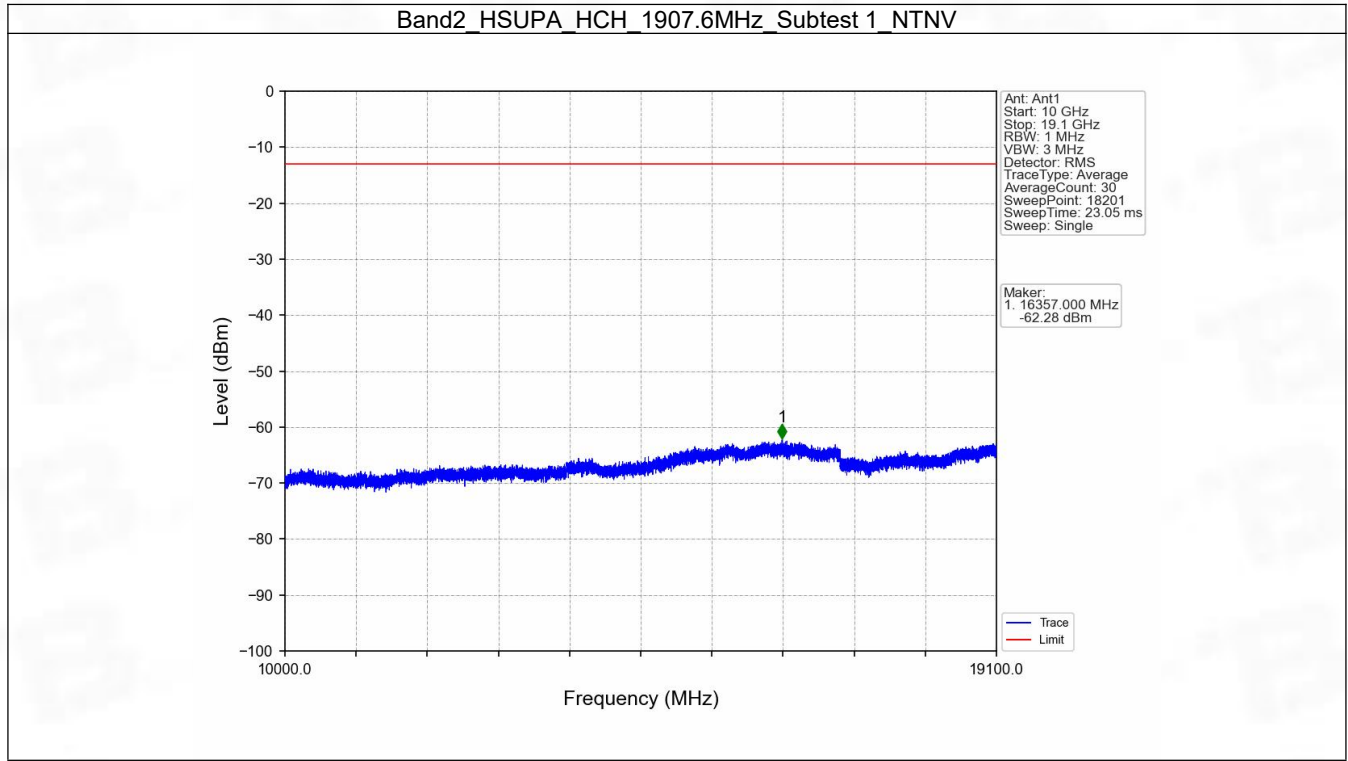


Band2_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



Band2_HSUPA_HCH_1907.6MHz_Subtest 1_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)
2	3.84	1852.4	1907.6	0.1652	0.0121	ppm	4M17F9W	24E	22.18

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)
2	3.84	1852.4	1907.6	0.1535	0.0121	ppm	4M17F9W	24E	21.86