

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	20.78	0.45	21.23	<=33.01	Pass		
			1880	20.97	0.45	21.42	<=33.01	Pass		
			1907.6	21.07	0.45	21.52	<=33.01	Pass		
	HSDPA	Subtest 1-4	1852.4	18.46	0.45	18.91	<=33.01	Pass		
			1852.4	18.49	0.45	18.94	<=33.01	Pass		
			1852.4	18.49	0.45	18.94	<=33.01	Pass		
			1852.4	18.50	0.45	18.95	<=33.01	Pass		
			1880	18.65	0.45	19.10	<=33.01	Pass		
			1880	18.63	0.45	19.08	<=33.01	Pass		
			1880	18.64	0.45	19.09	<=33.01	Pass		
			1880	18.63	0.45	19.08	<=33.01	Pass		
			1907.6	18.78	0.45	19.23	<=33.01	Pass		
			1907.6	18.80	0.45	19.25	<=33.01	Pass		
			1907.6	18.78	0.45	19.23	<=33.01	Pass		
			1907.6	18.78	0.45	19.23	<=33.01	Pass		
			HSUPA	Subtest 1-5	1852.4	16.02	0.45	16.47	<=33.01	Pass
					1852.4	16.02	0.45	16.47	<=33.01	Pass
					1852.4	16.00	0.45	16.45	<=33.01	Pass
	1852.4	16.50			0.45	16.95	<=33.01	Pass		
	1852.4	16.00			0.45	16.45	<=33.01	Pass		
	1880	16.43			0.45	16.88	<=33.01	Pass		
	1880	16.45			0.45	16.90	<=33.01	Pass		
	1880	16.20			0.45	16.65	<=33.01	Pass		
	1880	16.67			0.45	17.12	<=33.01	Pass		
	1880	16.44			0.45	16.89	<=33.01	Pass		
	1907.6	16.59			0.45	17.04	<=33.01	Pass		
	1907.6	16.78			0.45	17.23	<=33.01	Pass		
	1907.6	16.79			0.45	17.24	<=33.01	Pass		
	1907.6	16.57			0.45	17.02	<=33.01	Pass		
	1907.6	16.62			0.45	17.07	<=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	-54.517	-0.0294	-2.5 to 2.5	Pass
			3.85	-48.587	-0.0262	-2.5 to 2.5	Pass
			4.43	-38.602	-0.0208	-2.5 to 2.5	Pass
		-30	3.85	-32.187	-0.0174	-2.5 to 2.5	Pass
		-20	3.85	-32.408	-0.0175	-2.5 to 2.5	Pass
		-10	3.85	-29.182	-0.0158	-2.5 to 2.5	Pass
		0	3.85	-24.312	-0.0131	-2.5 to 2.5	Pass
		10	3.85	-23.353	-0.0126	-2.5 to 2.5	Pass
		30	3.85	-19.605	-0.0106	-2.5 to 2.5	Pass
		40	3.85	-19.012	-0.0103	-2.5 to 2.5	Pass
	50	3.85	-17.974	-0.0097	-2.5 to 2.5	Pass	
	1880	20	3.27	-2.160	-0.0011	-2.5 to 2.5	Pass
			3.85	-4.692	-0.0025	-2.5 to 2.5	Pass
			4.43	-9.048	-0.0048	-2.5 to 2.5	Pass
		-30	3.85	-8.869	-0.0047	-2.5 to 2.5	Pass
		-20	3.85	-12.438	-0.0066	-2.5 to 2.5	Pass
		-10	3.85	-17.653	-0.0094	-2.5 to 2.5	Pass
		0	3.85	-9.899	-0.0053	-2.5 to 2.5	Pass
		10	3.85	-10.800	-0.0057	-2.5 to 2.5	Pass
		30	3.85	-11.666	-0.0062	-2.5 to 2.5	Pass
		40	3.85	-14.462	-0.0077	-2.5 to 2.5	Pass
	50	3.85	-14.033	-0.0075	-2.5 to 2.5	Pass	
	1907.6	20	3.27	-12.496	-0.0066	-2.5 to 2.5	Pass
			3.85	-18.590	-0.0097	-2.5 to 2.5	Pass
			4.43	-16.479	-0.0086	-2.5 to 2.5	Pass
		-30	3.85	-19.526	-0.0102	-2.5 to 2.5	Pass
		-20	3.85	-15.314	-0.0080	-2.5 to 2.5	Pass
		-10	3.85	-16.322	-0.0086	-2.5 to 2.5	Pass
		0	3.85	-13.418	-0.0070	-2.5 to 2.5	Pass
		10	3.85	-12.574	-0.0066	-2.5 to 2.5	Pass
30		3.85	-17.688	-0.0093	-2.5 to 2.5	Pass	
40		3.85	-20.227	-0.0106	-2.5 to 2.5	Pass	
50	3.85	-14.327	-0.0075	-2.5 to 2.5	Pass		
HSDPA	1852.4	20	3.27	-10.715	-0.0058	-2.5 to 2.5	Pass
			3.85	-16.572	-0.0089	-2.5 to 2.5	Pass
			4.43	-14.699	-0.0079	-2.5 to 2.5	Pass
		-30	3.85	-10.536	-0.0057	-2.5 to 2.5	Pass
		-20	3.85	-13.504	-0.0073	-2.5 to 2.5	Pass
		-10	3.85	-12.710	-0.0069	-2.5 to 2.5	Pass
		0	3.85	-16.994	-0.0092	-2.5 to 2.5	Pass
		10	3.85	-10.428	-0.0056	-2.5 to 2.5	Pass
		30	3.85	-10.014	-0.0054	-2.5 to 2.5	Pass
		40	3.85	-8.447	-0.0046	-2.5 to 2.5	Pass
	50	3.85	-5.815	-0.0031	-2.5 to 2.5	Pass	
	1880	20	3.27	-19.426	-0.0103	-2.5 to 2.5	Pass
			3.85	-17.674	-0.0094	-2.5 to 2.5	Pass
			4.43	-16.472	-0.0088	-2.5 to 2.5	Pass
		-30	3.85	-17.381	-0.0092	-2.5 to 2.5	Pass
		-20	3.85	-17.295	-0.0092	-2.5 to 2.5	Pass
		-10	3.85	-15.714	-0.0084	-2.5 to 2.5	Pass
		0	3.85	-19.004	-0.0101	-2.5 to 2.5	Pass
		10	3.85	-15.678	-0.0083	-2.5 to 2.5	Pass
		30	3.85	-20.049	-0.0107	-2.5 to 2.5	Pass
40		3.85	-12.667	-0.0067	-2.5 to 2.5	Pass	
50	3.85	-14.584	-0.0078	-2.5 to 2.5	Pass		

	1907.6	20	3.27	-20.034	-0.0105	-2.5 to 2.5	Pass
			3.85	-20.471	-0.0107	-2.5 to 2.5	Pass
			4.43	-17.924	-0.0094	-2.5 to 2.5	Pass
		-30	3.85	-15.771	-0.0083	-2.5 to 2.5	Pass
		-20	3.85	-20.478	-0.0107	-2.5 to 2.5	Pass
		-10	3.85	-19.705	-0.0103	-2.5 to 2.5	Pass
		0	3.85	-16.215	-0.0085	-2.5 to 2.5	Pass
		10	3.85	-19.398	-0.0102	-2.5 to 2.5	Pass
		30	3.85	-14.513	-0.0076	-2.5 to 2.5	Pass
		40	3.85	-16.794	-0.0088	-2.5 to 2.5	Pass
50	3.85	-19.813	-0.0104	-2.5 to 2.5	Pass		
HSUPA	1852.4	20	3.27	-25.499	-0.0138	-2.5 to 2.5	Pass
			3.85	-31.300	-0.0169	-2.5 to 2.5	Pass
			4.43	-25.842	-0.0140	-2.5 to 2.5	Pass
		-30	3.85	-23.575	-0.0127	-2.5 to 2.5	Pass
		-20	3.85	-23.482	-0.0127	-2.5 to 2.5	Pass
		-10	3.85	-23.217	-0.0125	-2.5 to 2.5	Pass
		0	3.85	-21.293	-0.0115	-2.5 to 2.5	Pass
		10	3.85	-18.353	-0.0099	-2.5 to 2.5	Pass
		30	3.85	-21.586	-0.0117	-2.5 to 2.5	Pass
		40	3.85	-18.311	-0.0099	-2.5 to 2.5	Pass
	50	3.85	-20.285	-0.0110	-2.5 to 2.5	Pass	
	1880	20	3.27	-12.553	-0.0067	-2.5 to 2.5	Pass
			3.85	-28.911	-0.0154	-2.5 to 2.5	Pass
			4.43	-26.314	-0.0140	-2.5 to 2.5	Pass
		-30	3.85	-23.510	-0.0125	-2.5 to 2.5	Pass
		-20	3.85	-25.156	-0.0134	-2.5 to 2.5	Pass
		-10	3.85	-22.688	-0.0121	-2.5 to 2.5	Pass
		0	3.85	-19.956	-0.0106	-2.5 to 2.5	Pass
		10	3.85	-21.808	-0.0116	-2.5 to 2.5	Pass
		30	3.85	-18.382	-0.0098	-2.5 to 2.5	Pass
		40	3.85	-22.666	-0.0121	-2.5 to 2.5	Pass
	50	3.85	-20.092	-0.0107	-2.5 to 2.5	Pass	
	1907.6	20	3.27	-16.916	-0.0089	-2.5 to 2.5	Pass
			3.85	-27.030	-0.0142	-2.5 to 2.5	Pass
			4.43	-22.724	-0.0119	-2.5 to 2.5	Pass
		-30	3.85	-22.266	-0.0117	-2.5 to 2.5	Pass
		-20	3.85	-23.096	-0.0121	-2.5 to 2.5	Pass
		-10	3.85	-22.237	-0.0117	-2.5 to 2.5	Pass
		0	3.85	-22.173	-0.0116	-2.5 to 2.5	Pass
		10	3.85	-21.658	-0.0114	-2.5 to 2.5	Pass
30		3.85	-19.805	-0.0104	-2.5 to 2.5	Pass	
40		3.85	-17.974	-0.0094	-2.5 to 2.5	Pass	
50	3.85	-17.552	-0.0092	-2.5 to 2.5	Pass		

3. Modulation Characteristics

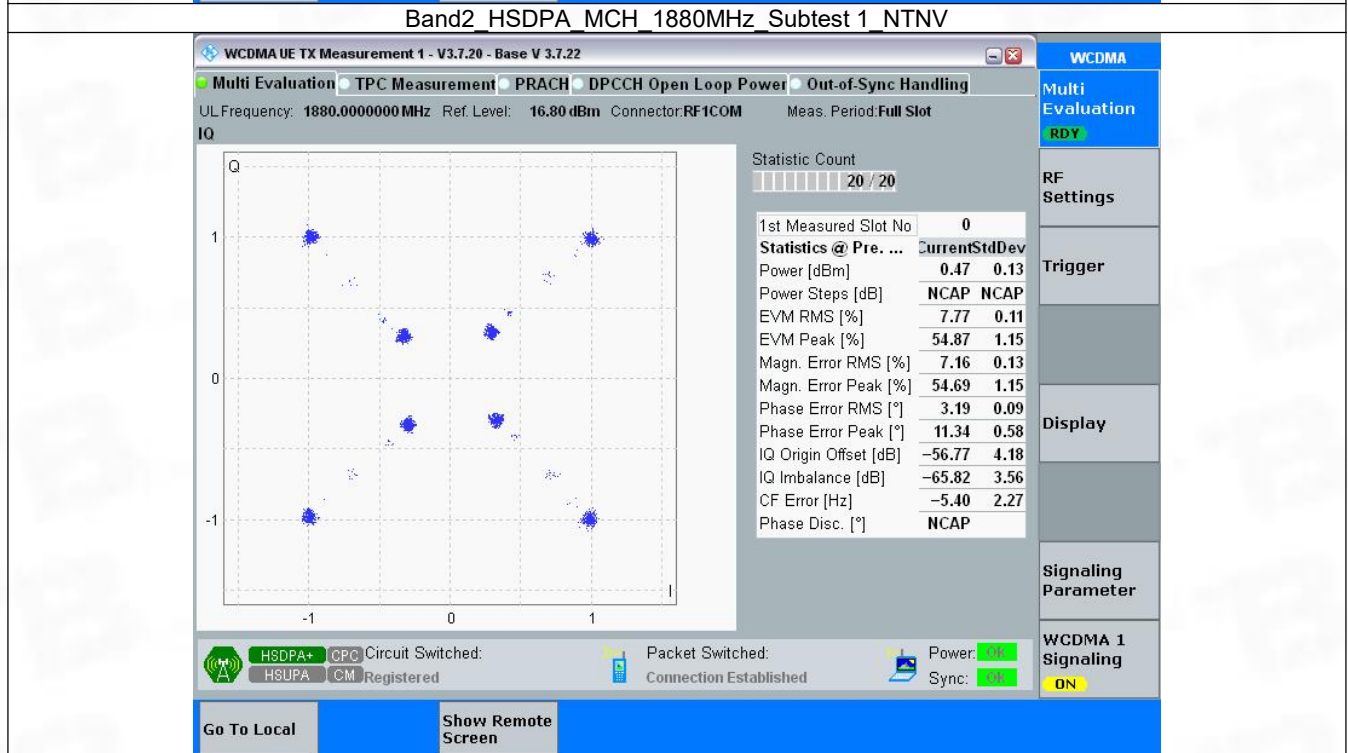
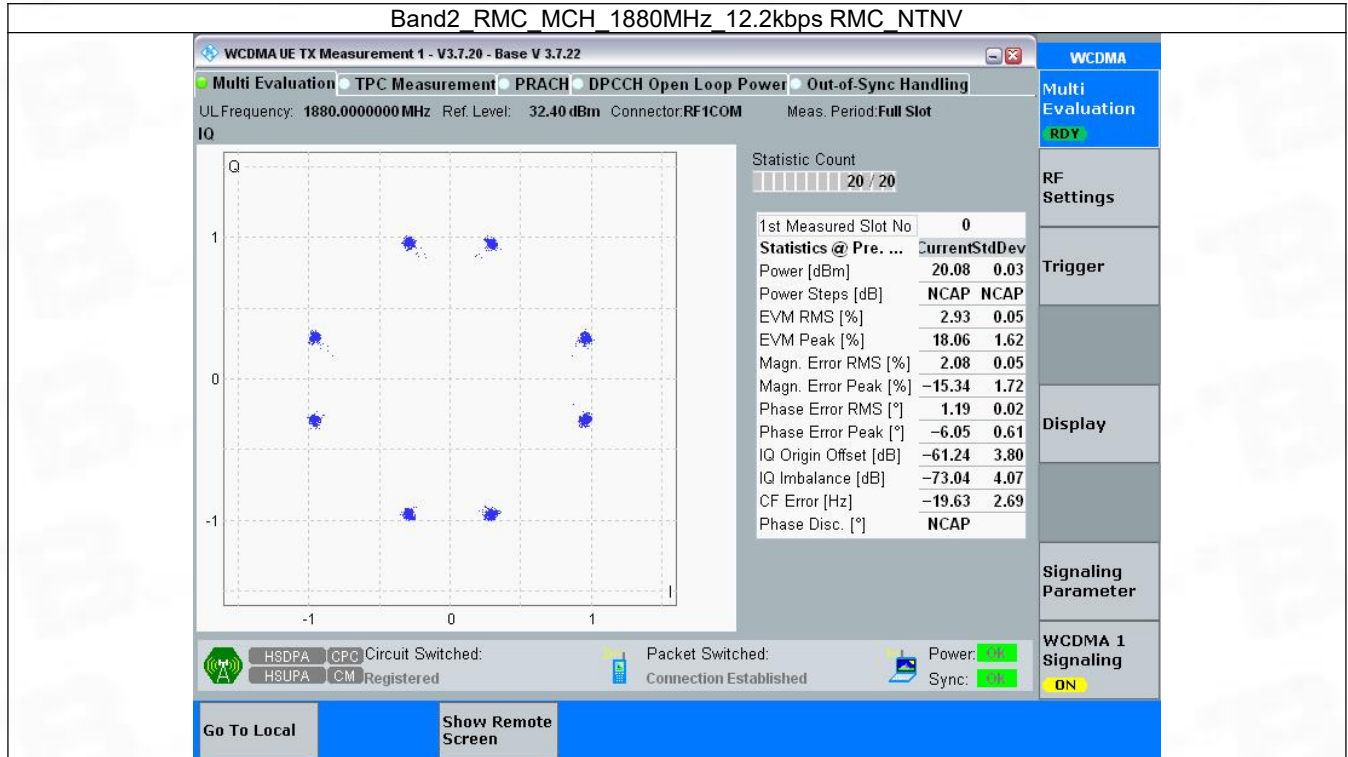
3.1 Band2

3.1.1 Test Result

Band: 2

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



Band2_HSUPA_MCH_1880MHz_Subtest_1_NTNV

WCDMA UE TX Measurement 1 - V3.7.20 - Base V 3.7.22

UL Frequency: 1880.000000 MHz Ref. Level: 34.20 dBm Connector: RF1COM Meas. Period: Full Slot

WCDMA

Multi Evaluation

RDY

Multi Evaluation TPC Measurement PRACH DPCCH Open Loop Power Out-of-Sync Handling

Statistic Count: 20 / 20

1st Measured Slot No	0
Statistics @ Pre. ...	CurrentStdDev
Power [dBm]	17.83 0.73
Power Steps [dB]	NCAP NCAP
EVM RMS [%]	4.94 0.80
EVM Peak [%]	30.81 12.18
Magn. Error RMS [%]	4.37 0.96
Magn. Error Peak [%]	30.81 13.01
Phase Error RMS [°]	71.66 34.78
Phase Error Peak [°]	-179.93 86.41
IQ Origin Offset [dB]	-58.79 4.75
IQ Imbalance [dB]	-66.65 1.80
CF Error [Hz]	-14.89 3.17
Phase Disc. [°]	NCAP

WCDMA

Multi Evaluation

RDY

RF Settings

Trigger

Display

Signaling Parameter

WCDMA 1 Signaling ON

HSDPA+ CPO Circuit Switched: HSDPA CM Registered

Packet Switched: Connection Established

Power: ON Sync: ON

Go To Local

Show Remote Screen

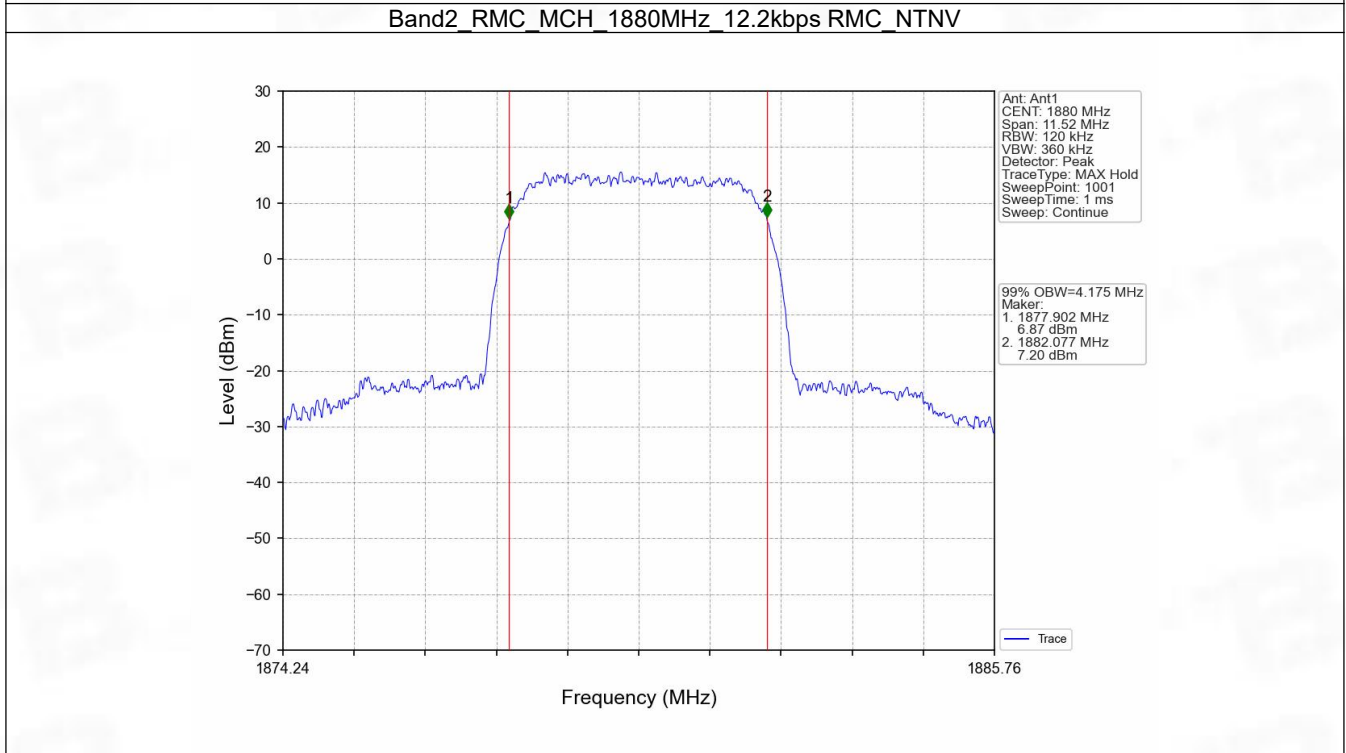
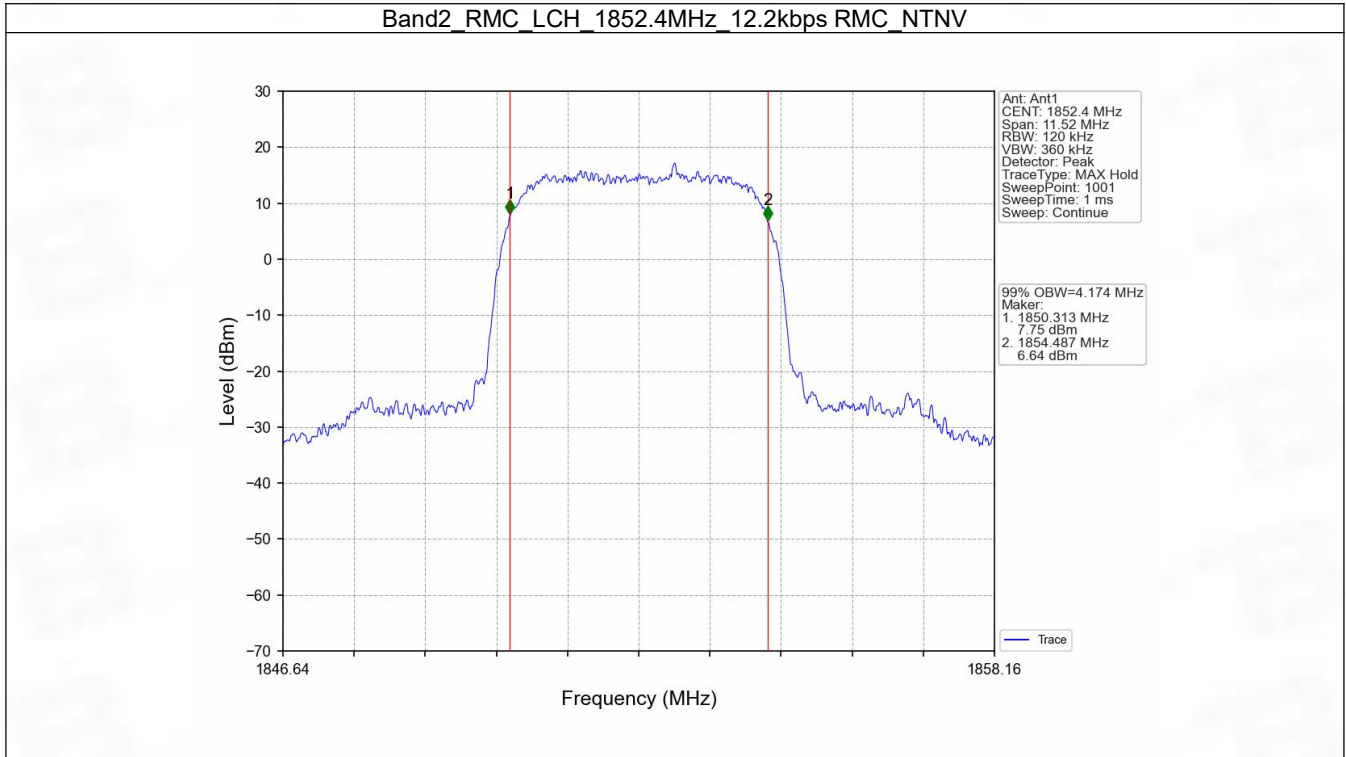
4. 99% & 26dB Bandwidth

4.1 Band2_OBW

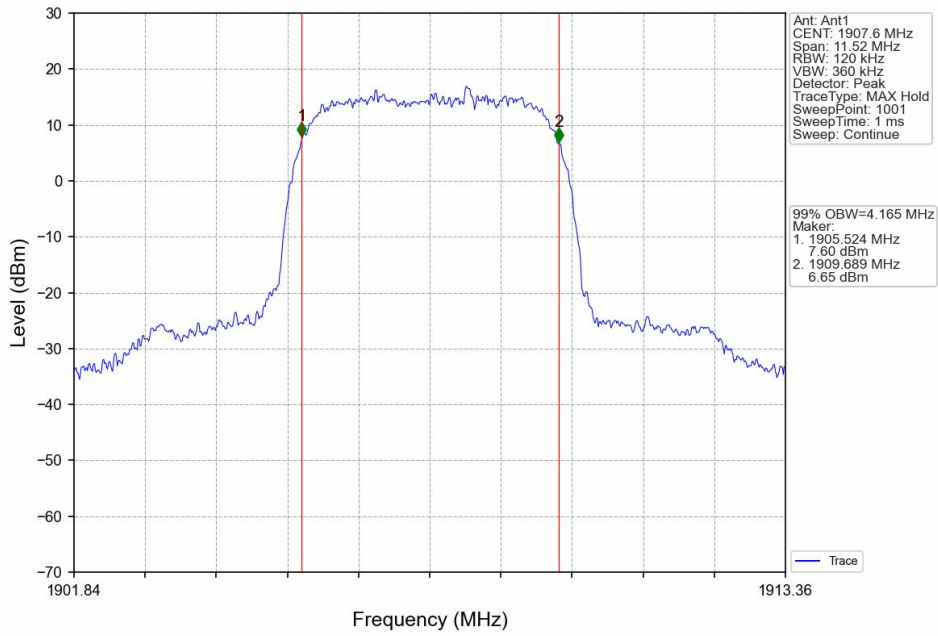
4.1.1 Test Result

Band: 2					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	1852.4	4.174	Pass
			1880	4.175	Pass
			1907.6	4.165	Pass
	HSDPA	Subtest 1	1852.4	4.211	Pass
			1880	4.211	Pass
			1907.6	4.204	Pass
	HSUPA	Subtest 1	1852.4	4.201	Pass
			1880	4.208	Pass
			1907.6	4.199	Pass

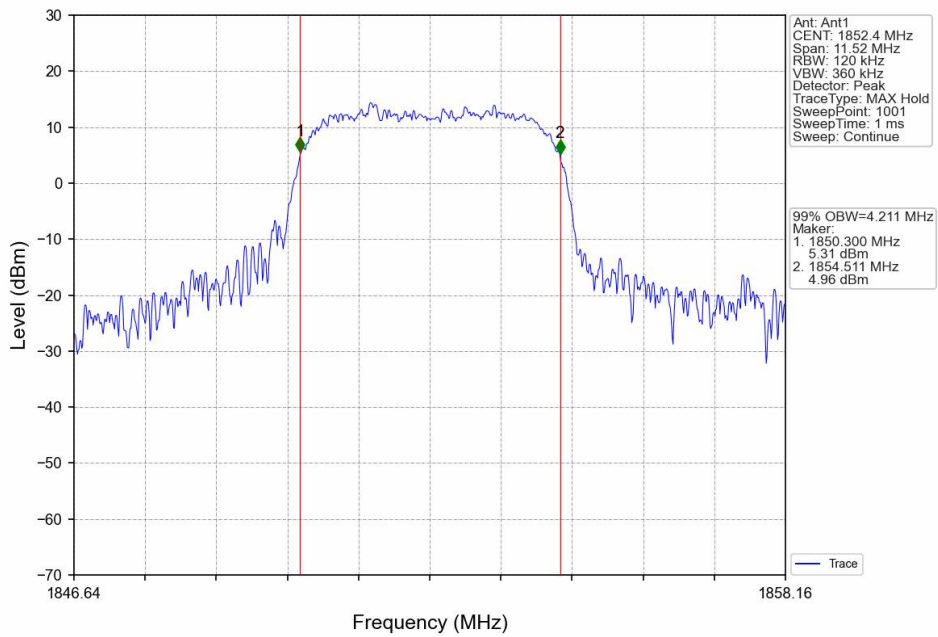
4.1.2 Test Graph



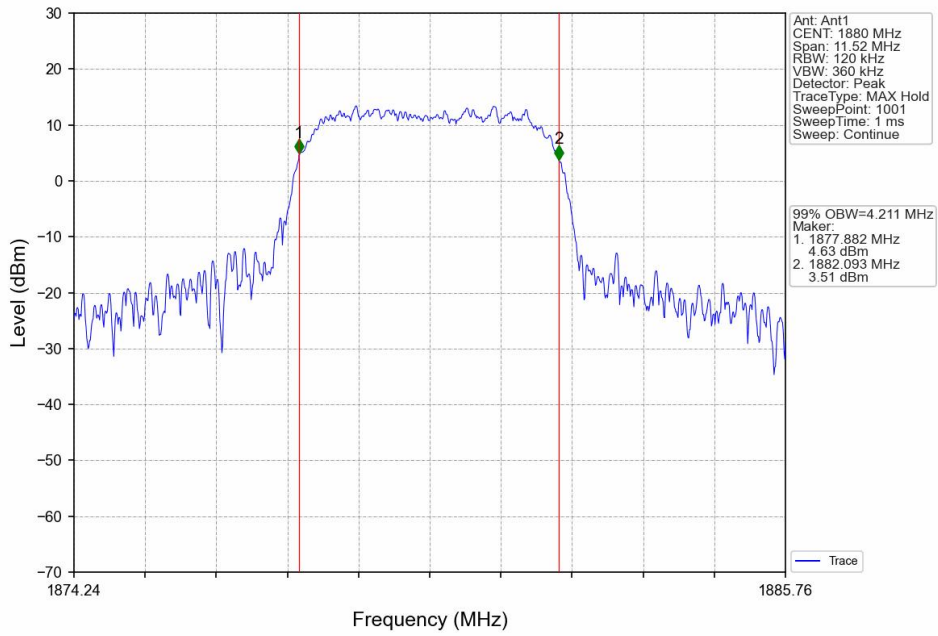
Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



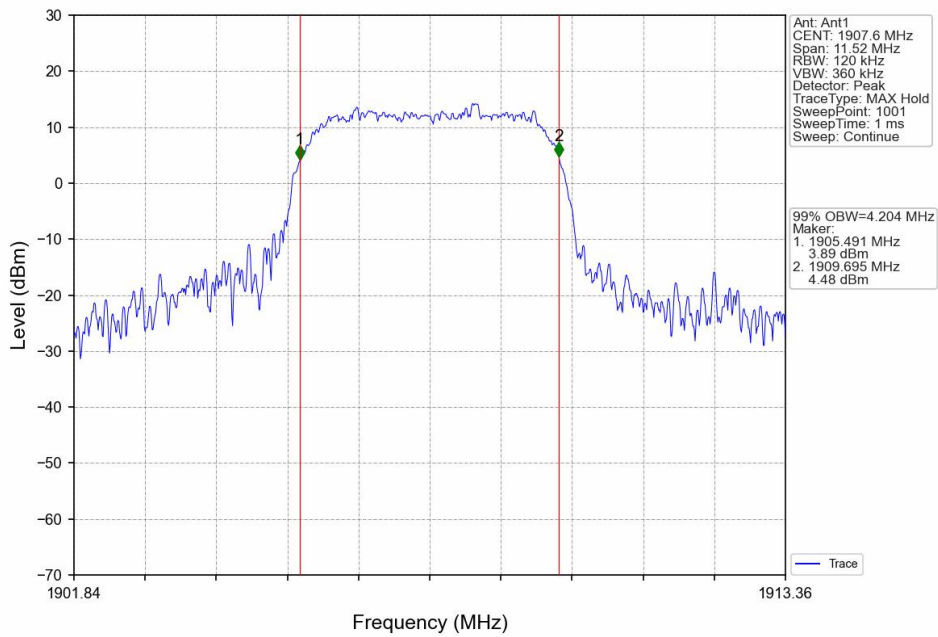
Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



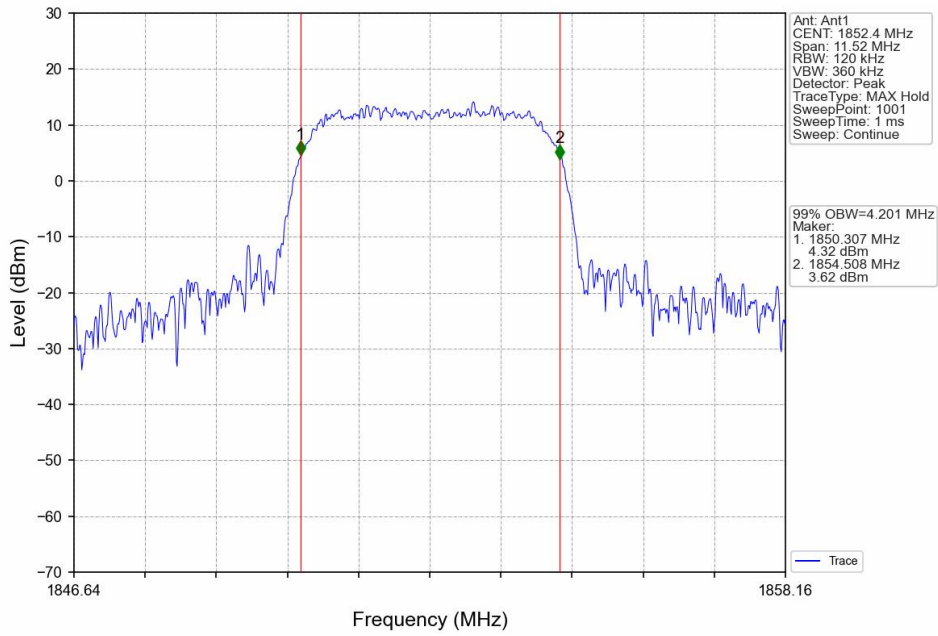
Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV



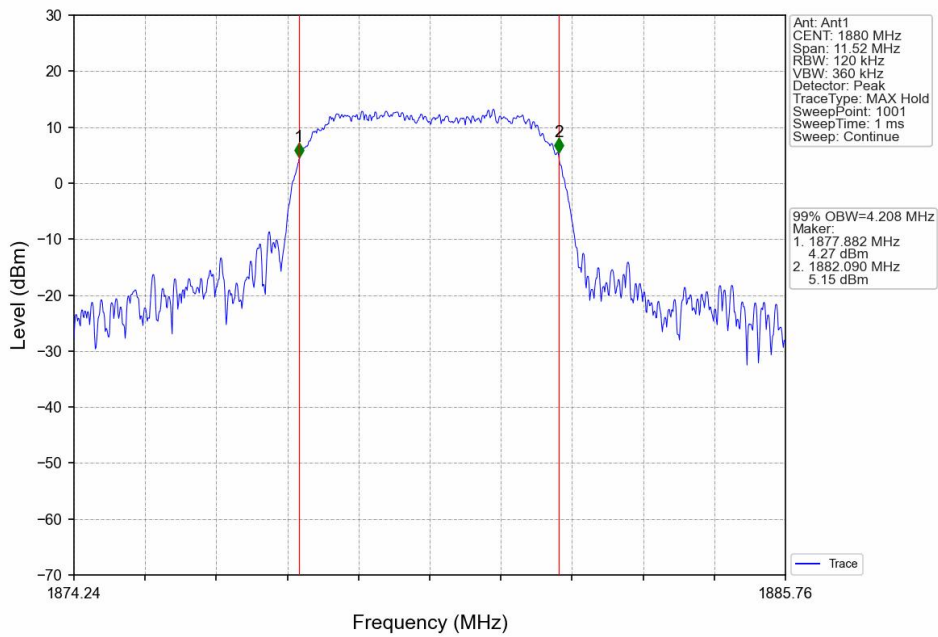
Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



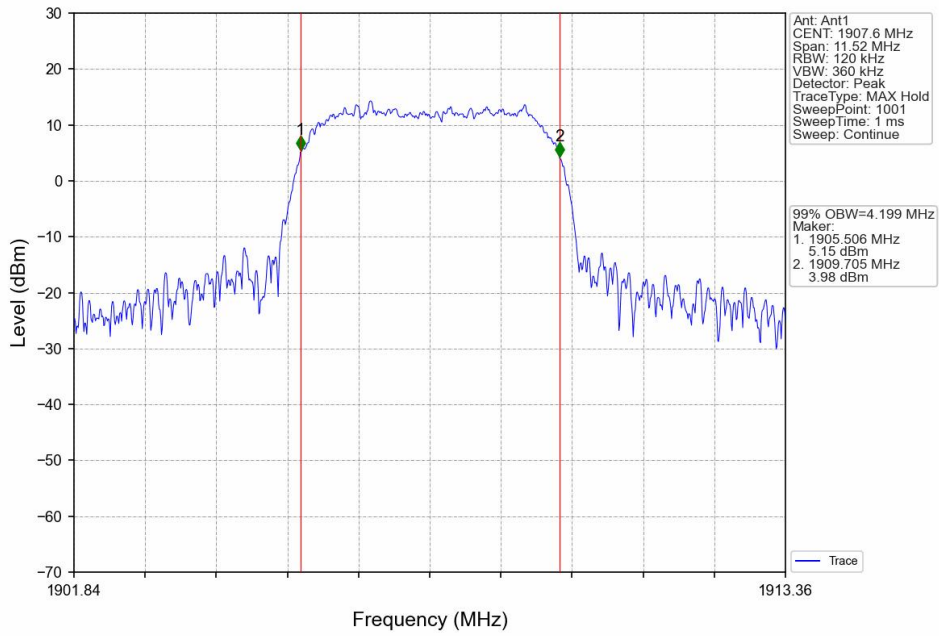
Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV



Band2_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV

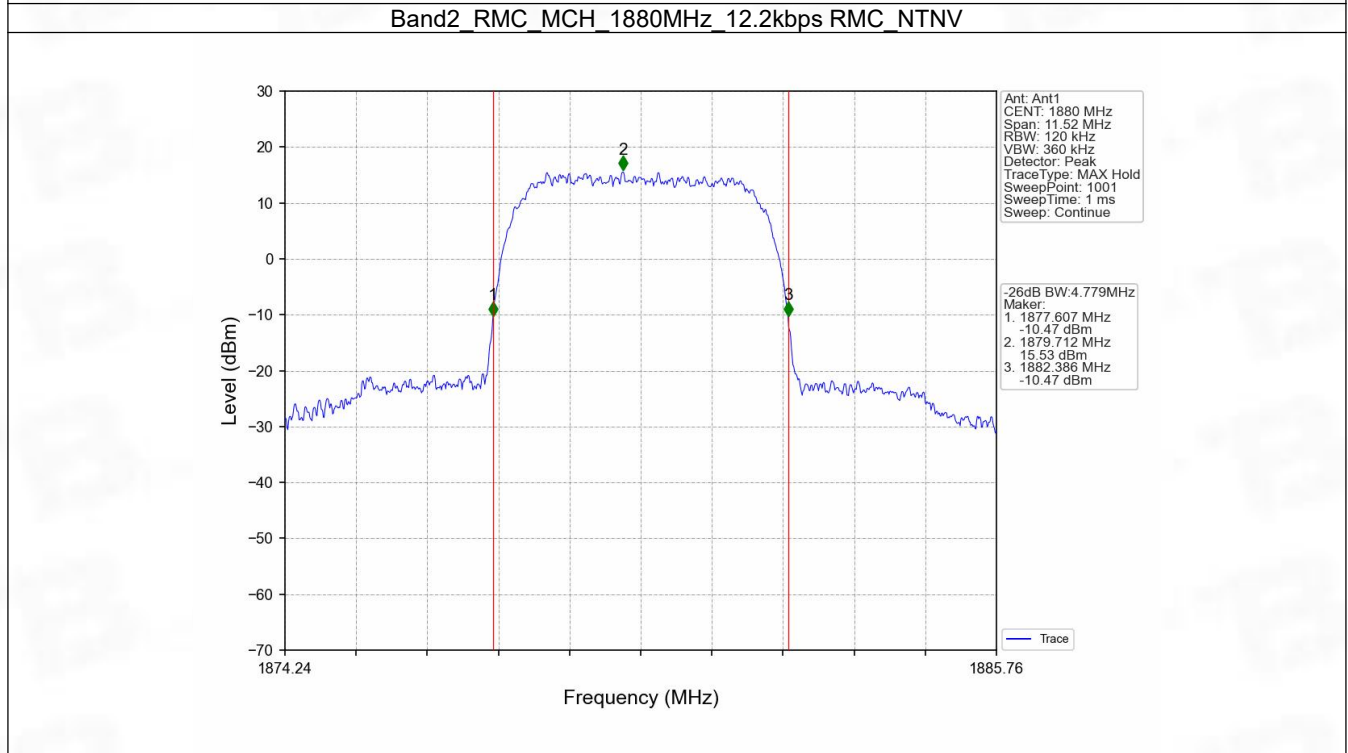
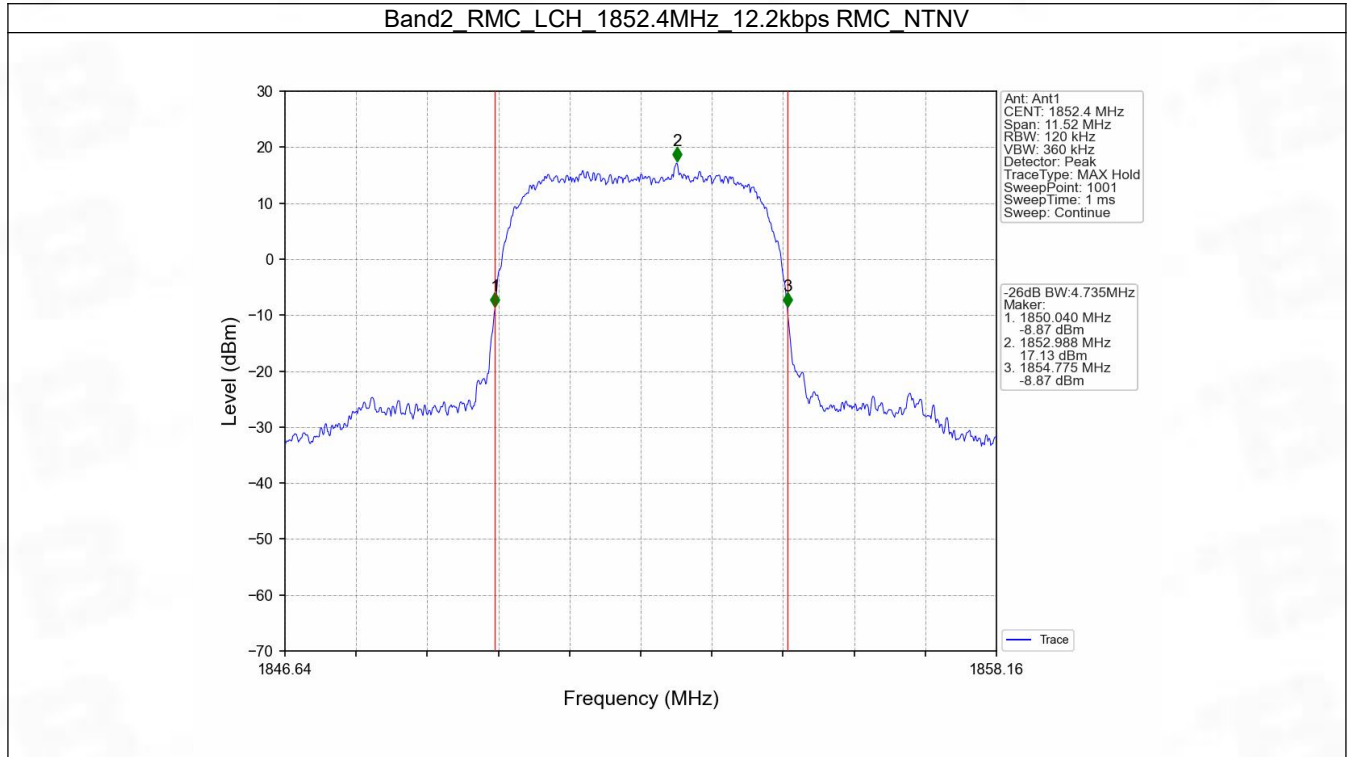


4.2 Band2_XDB

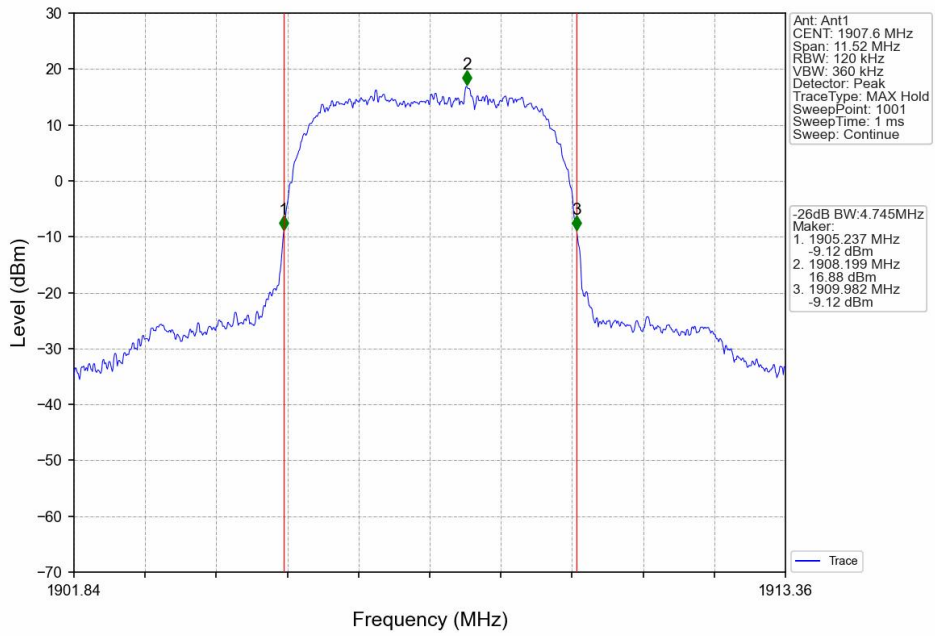
4.2.1 Test Result

Band: 2					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	1852.4	4.735	Pass
			1880	4.779	Pass
			1907.6	4.745	Pass
	HSDPA	Subtest 1	1852.4	5.378	Pass
			1880	5.404	Pass
			1907.6	5.447	Pass
	HSUPA	Subtest 1	1852.4	5.334	Pass
			1880	5.306	Pass
			1907.6	4.804	Pass

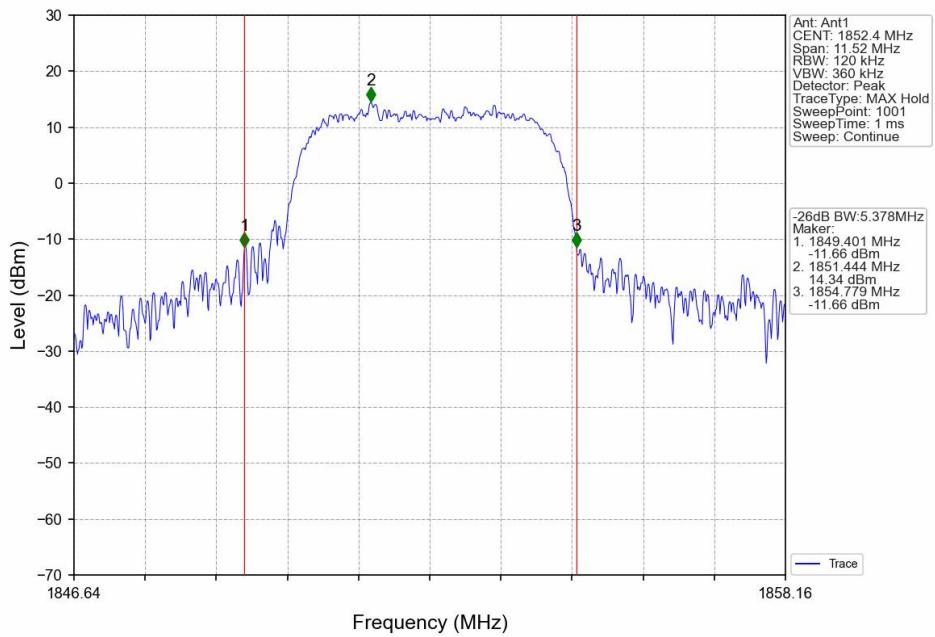
4.2.2 Test Graph



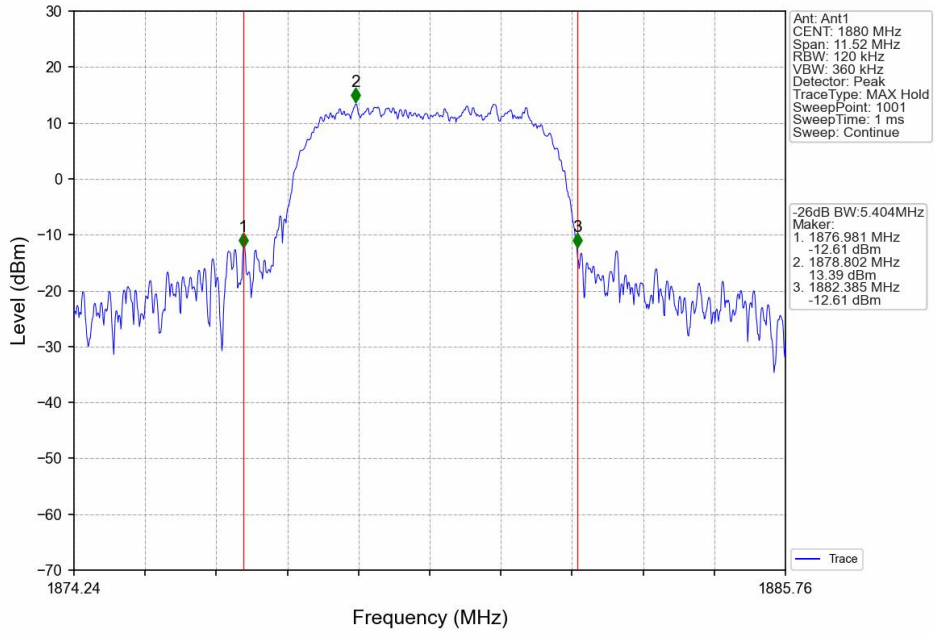
Band2_RMC_HCH_1907.6MHz_12.2kbps_RMC_NTNV



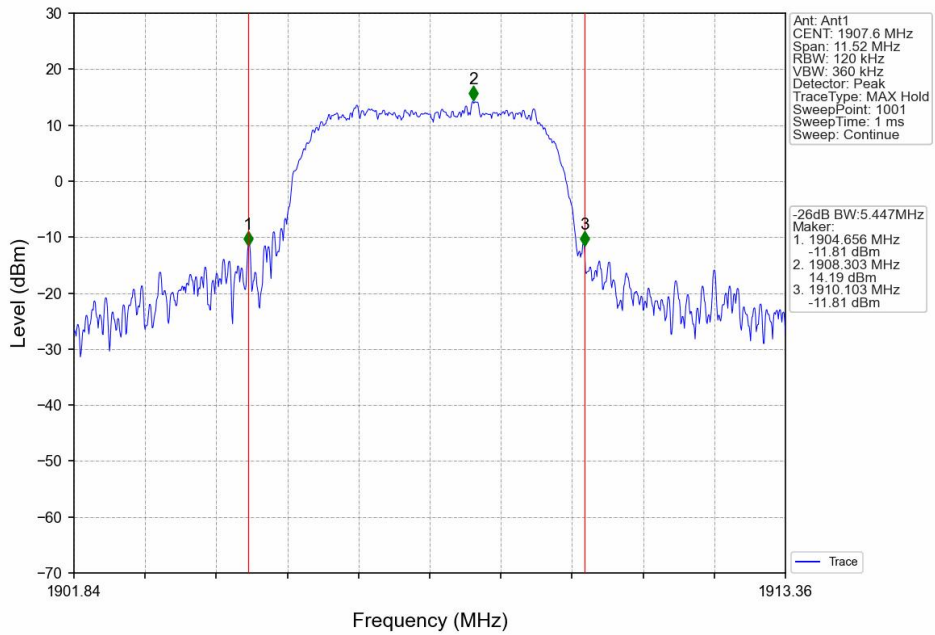
Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



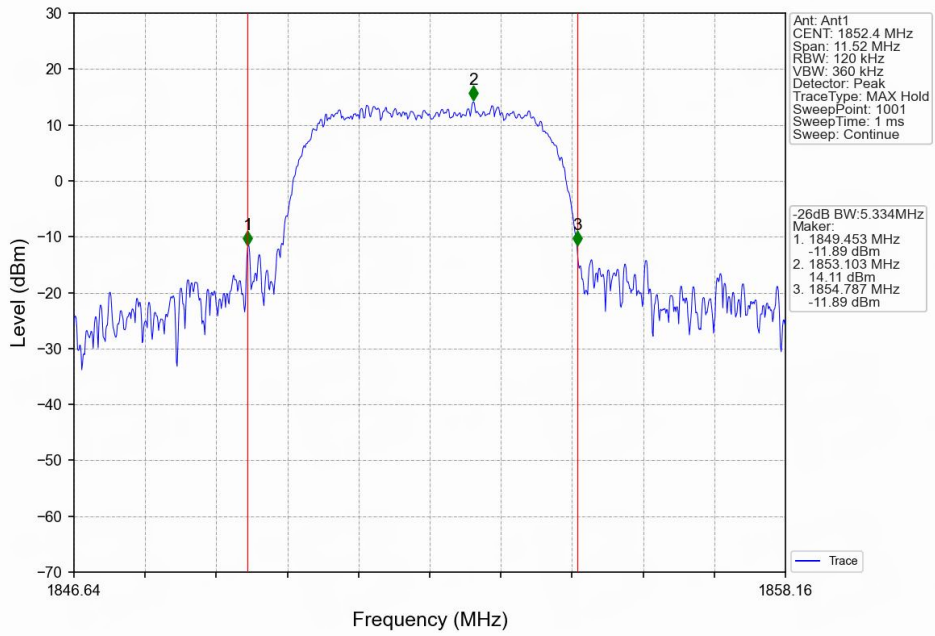
Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV



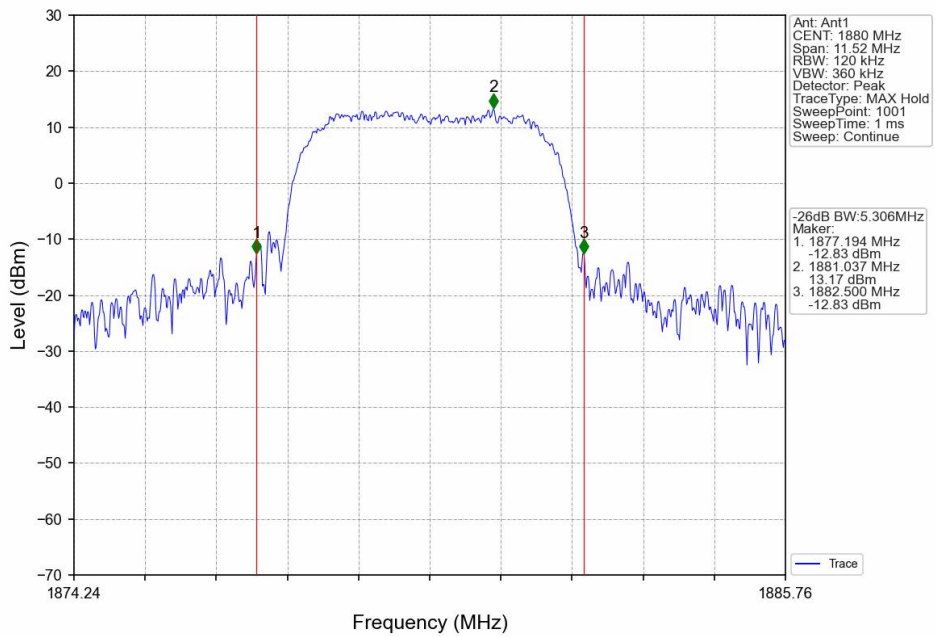
Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



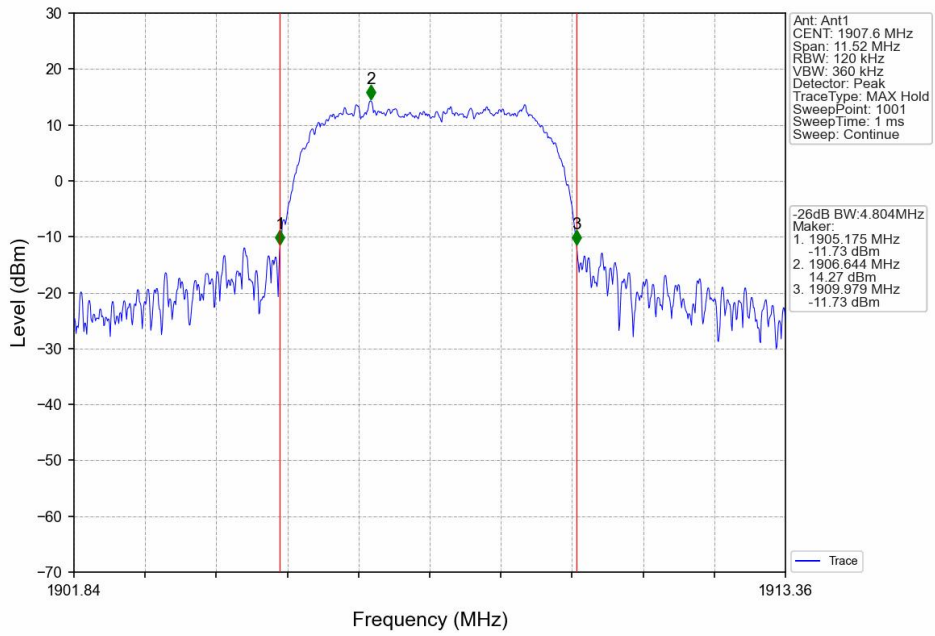
Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV



Band2_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



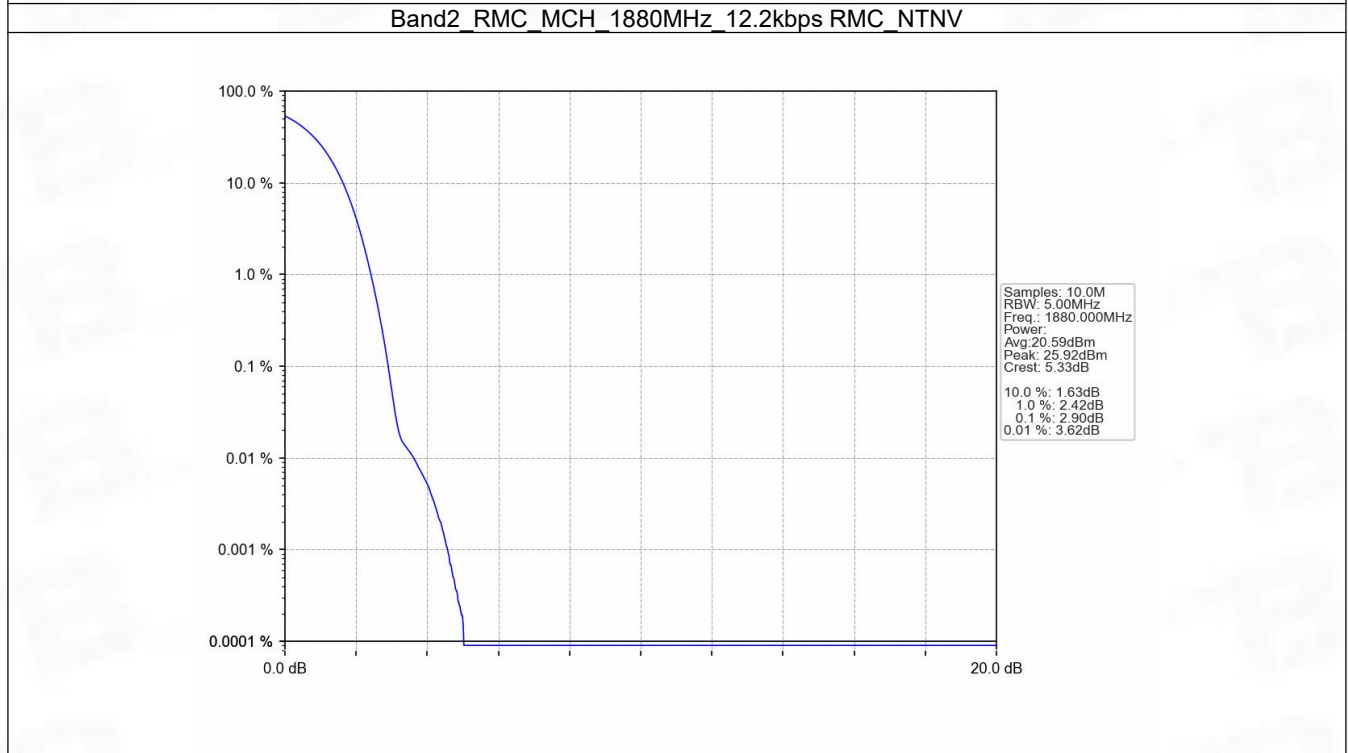
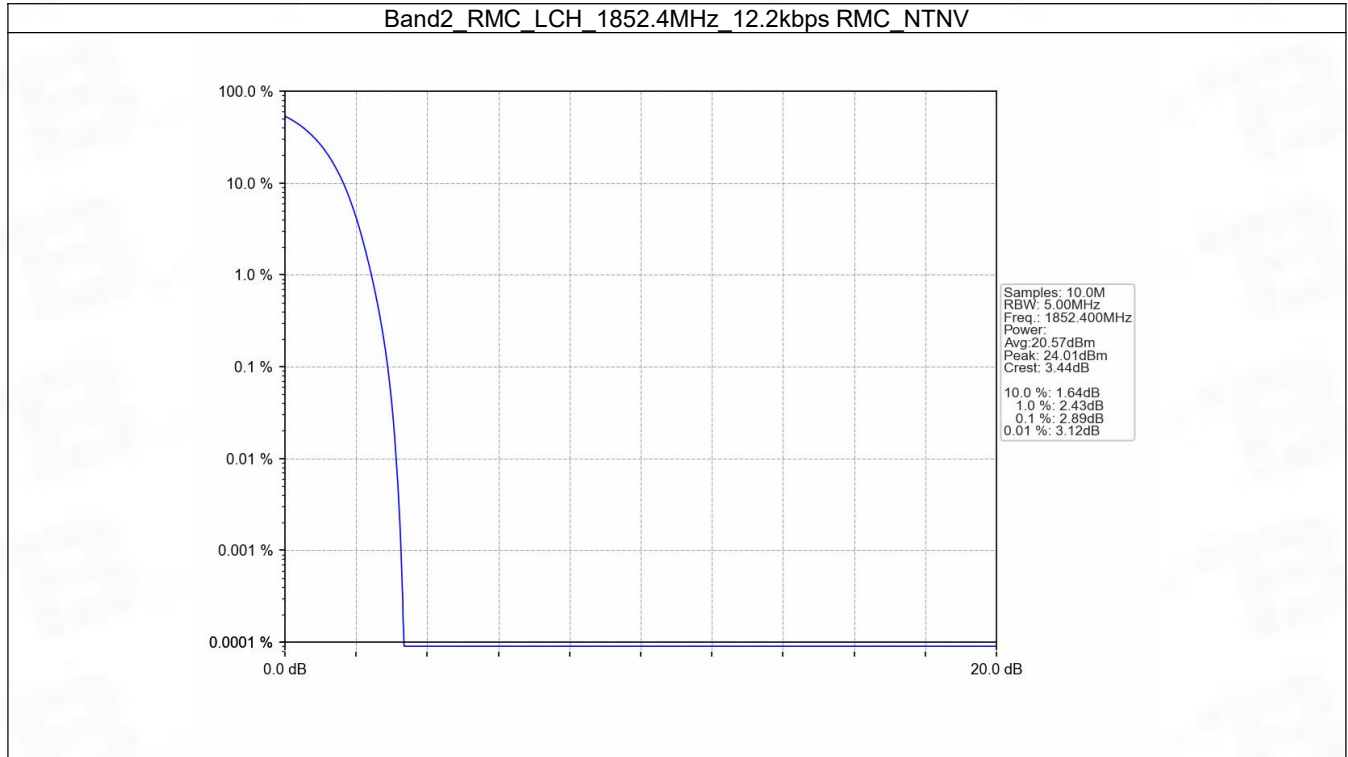
5. Peak-Average Ratio

5.1 Band2

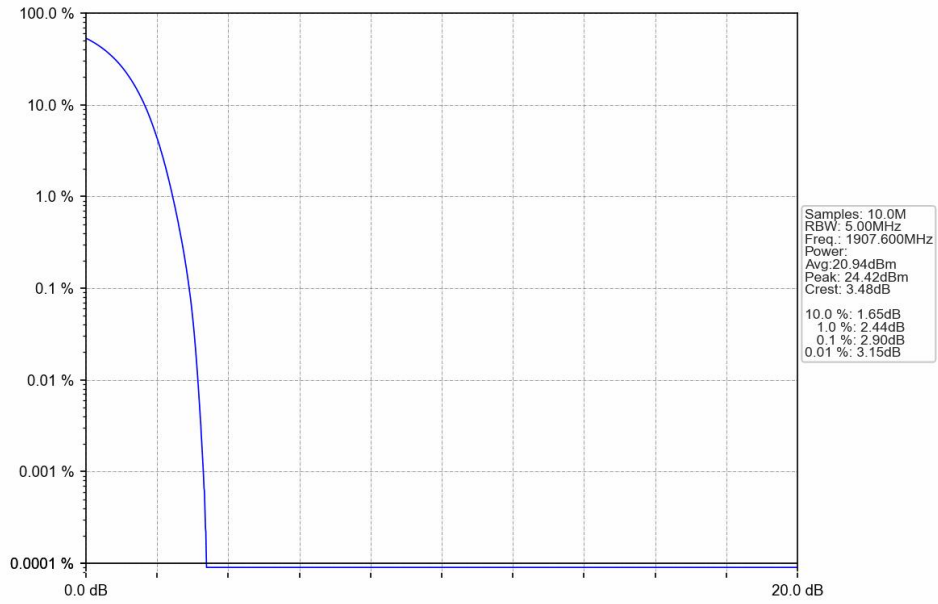
5.1.1 Test Result

Band: 2						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	2.89	<=13	Pass
			1880	2.90	<=13	Pass
			1907.6	2.90	<=13	Pass
	HSDPA	Subtest 1	1852.4	5.93	<=13	Pass
			1880	5.95	<=13	Pass
			1907.6	5.99	<=13	Pass
	HSUPA	Subtest 1	1852.4	4.69	<=13	Pass
			1880	4.65	<=13	Pass
			1907.6	4.74	<=13	Pass

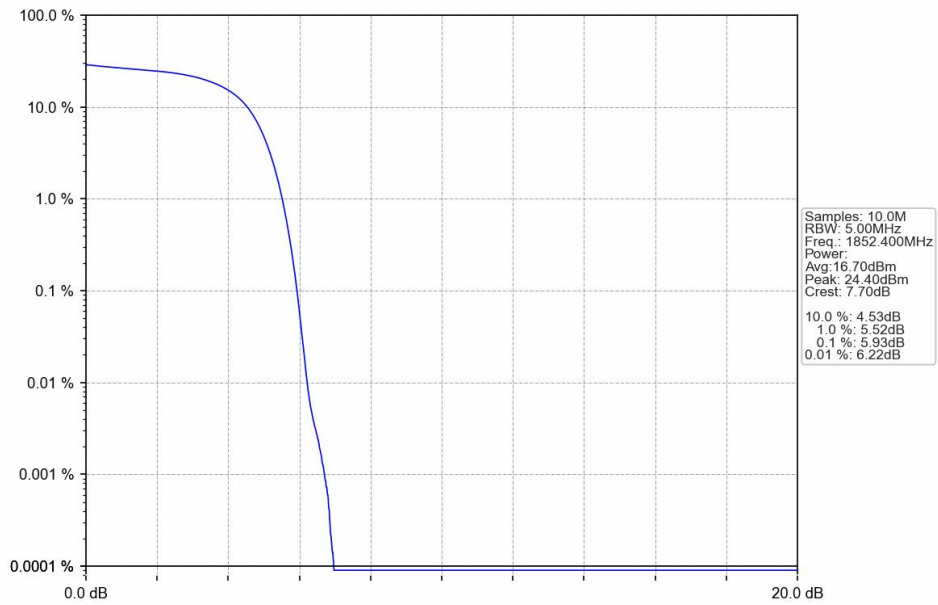
5.1.2 Test Graph



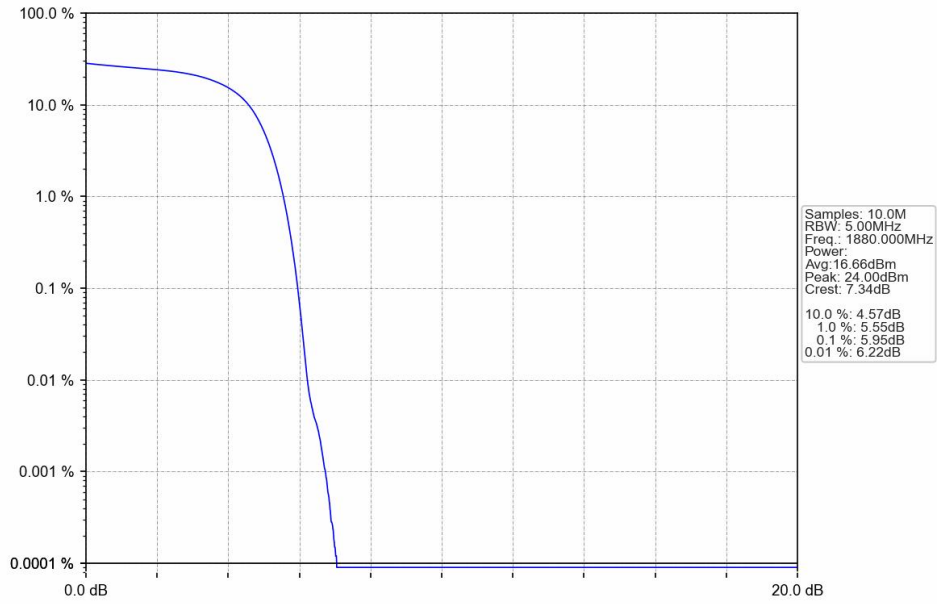
Band2_RMC_HCH_1907.6MHz_12.2kbps_RMC_NTNV



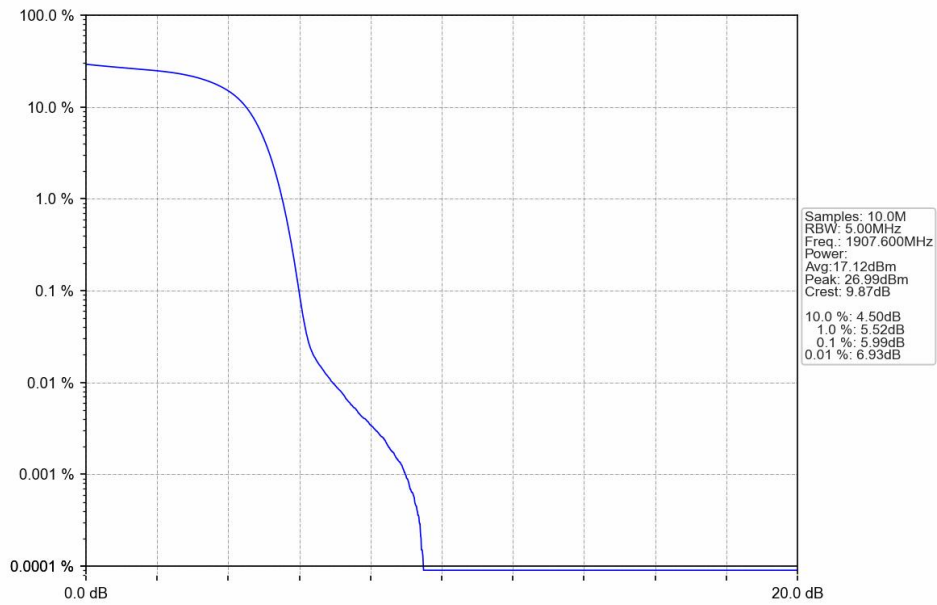
Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



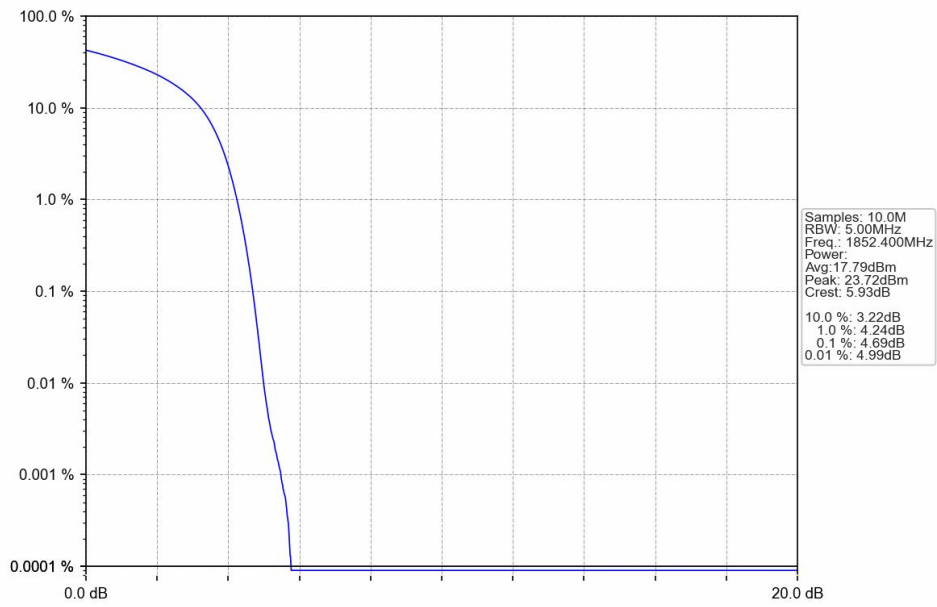
Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV



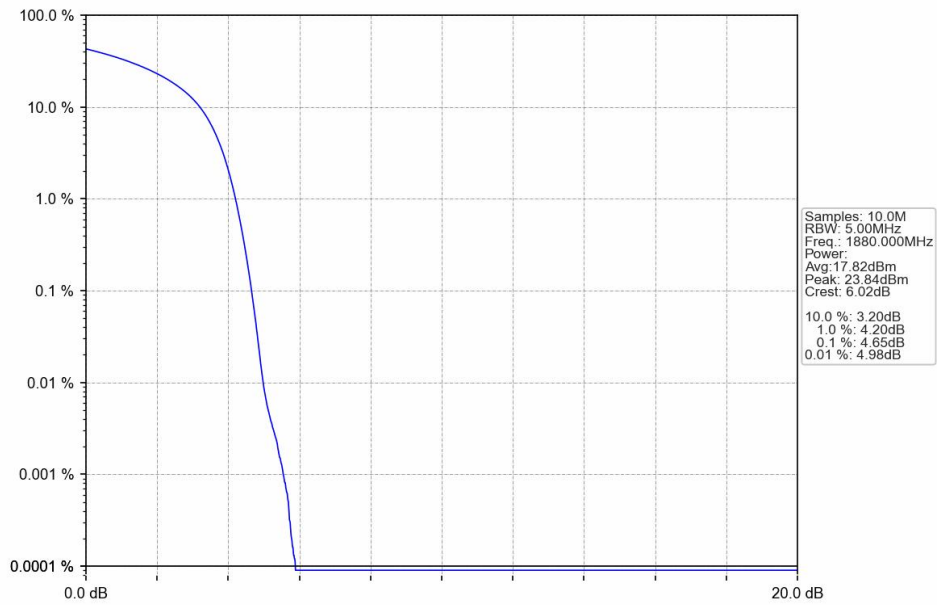
Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



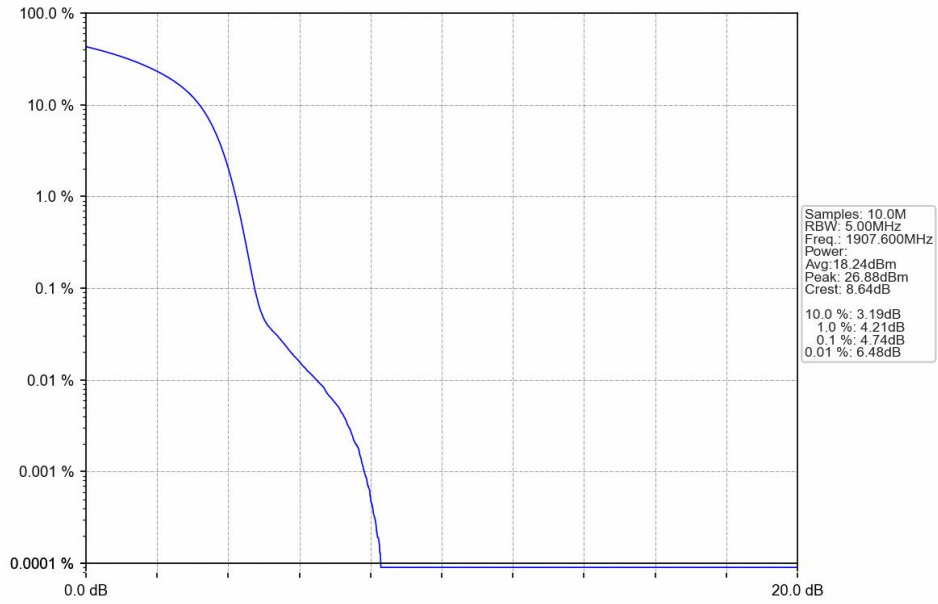
Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV



Band2_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



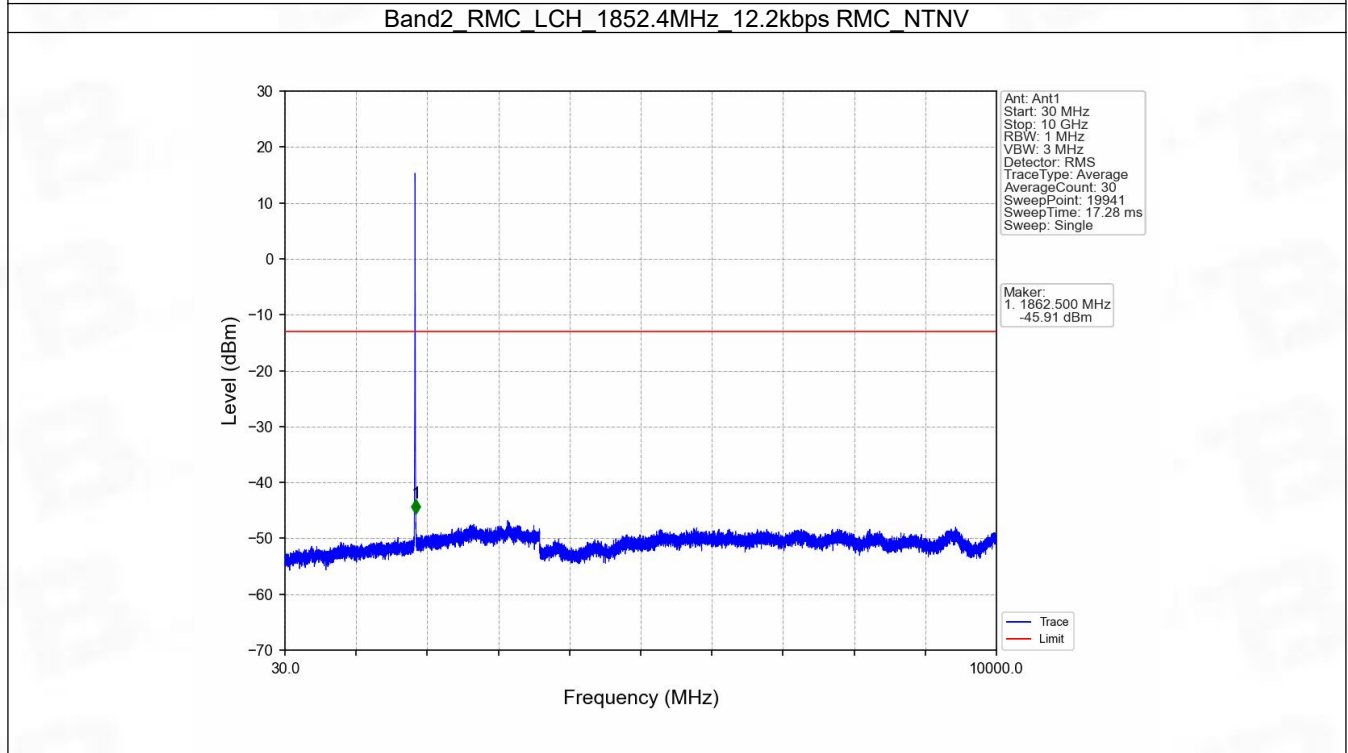
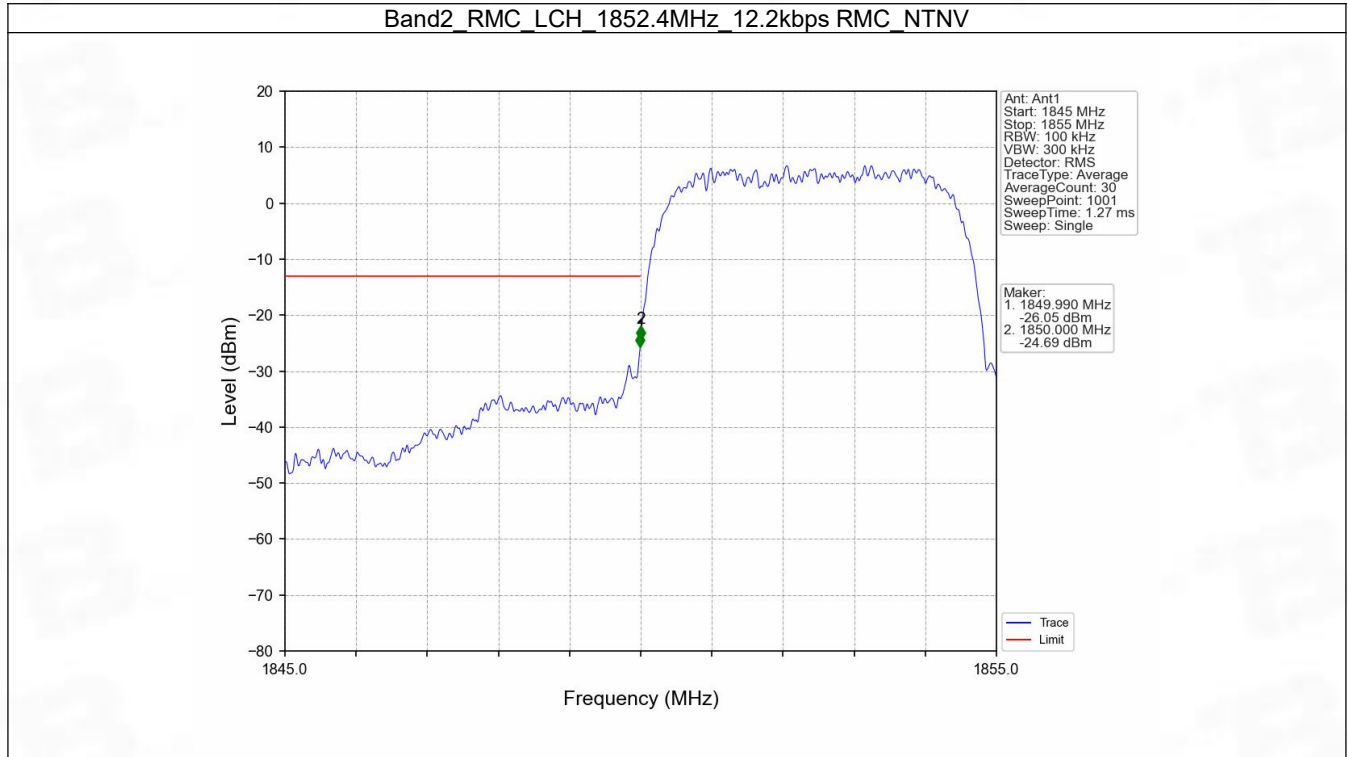
6. Spurious Emission

6.1 Band2

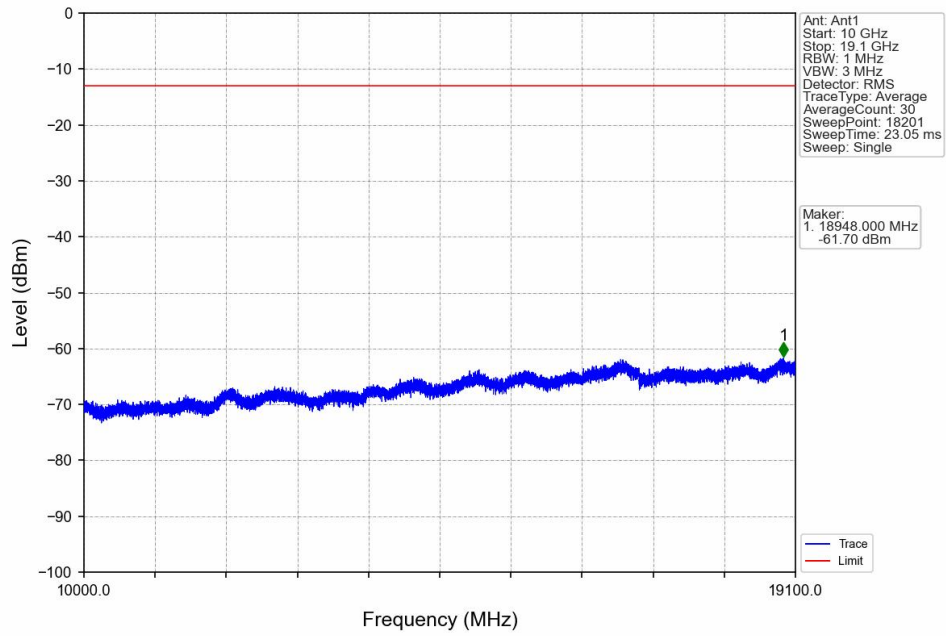
6.1.1 Test Result

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

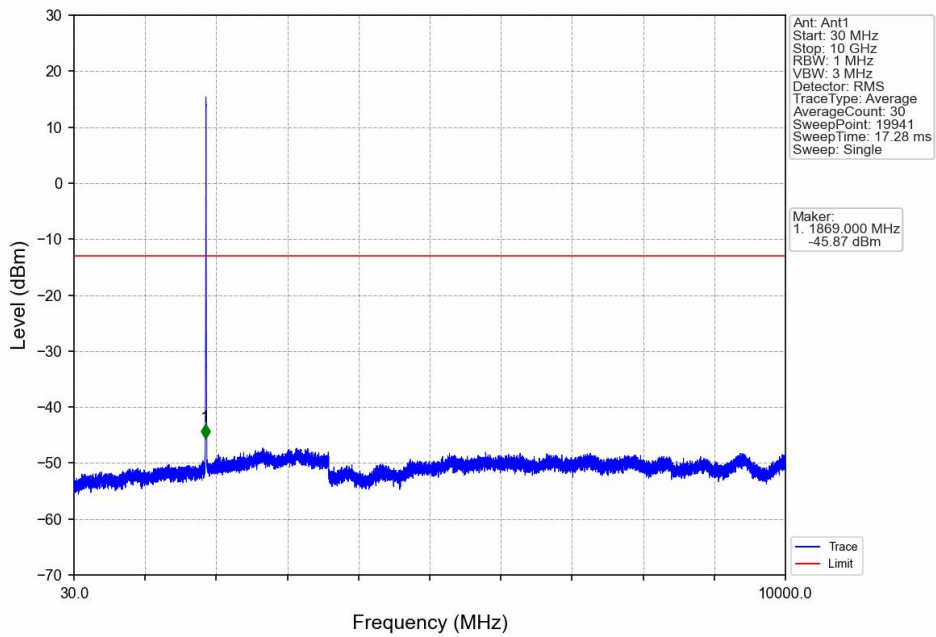
6.1.2 Test Graph



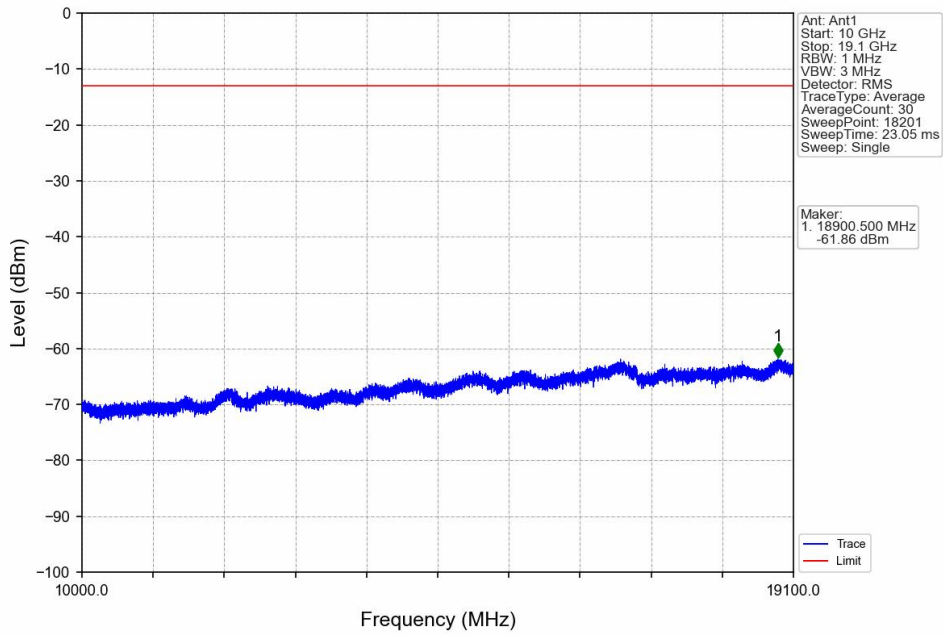
Band2_RMC_LCH_1852.4MHz_12.2kbps RMC_NTNV



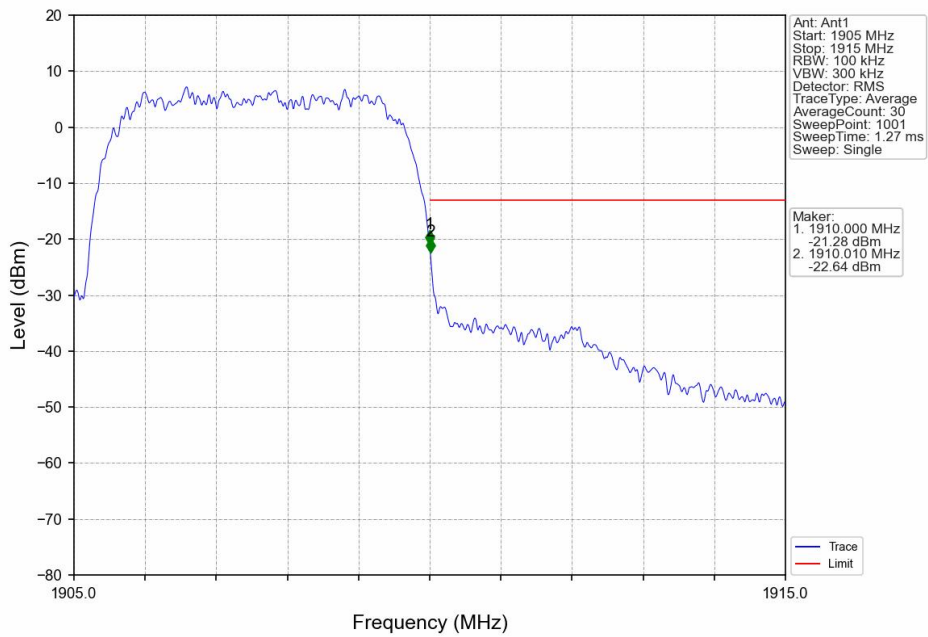
Band2_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



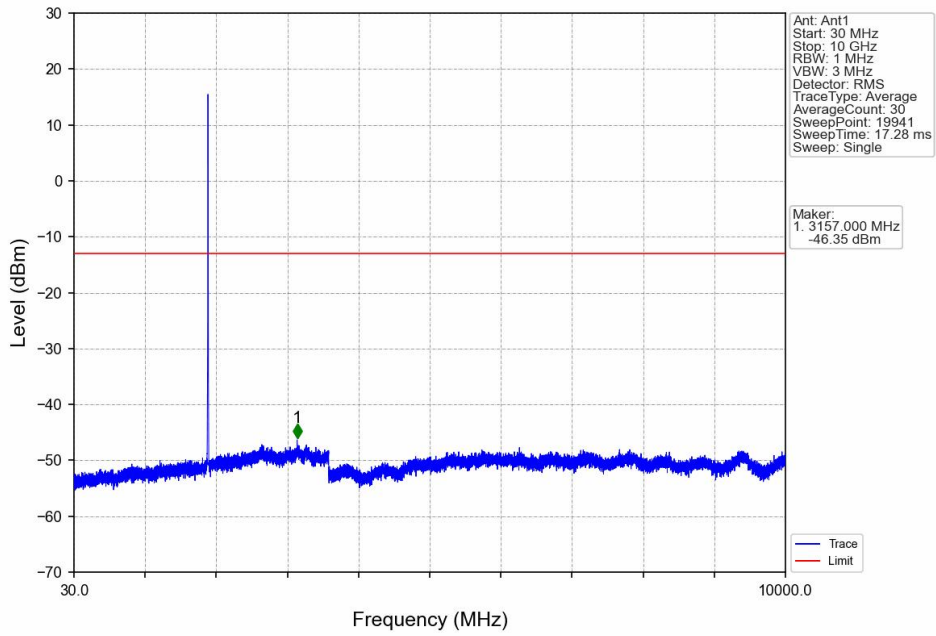
Band2_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



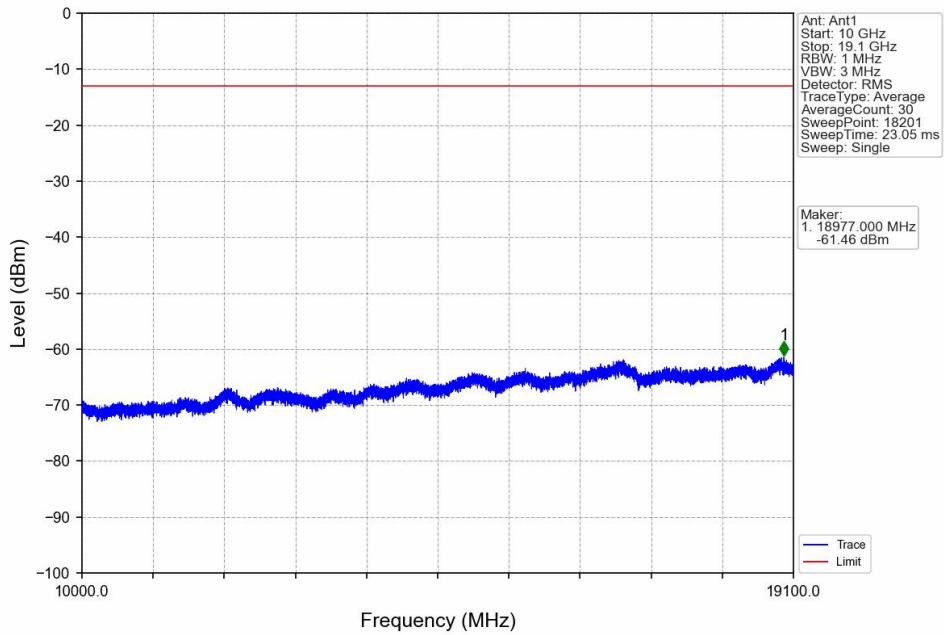
Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



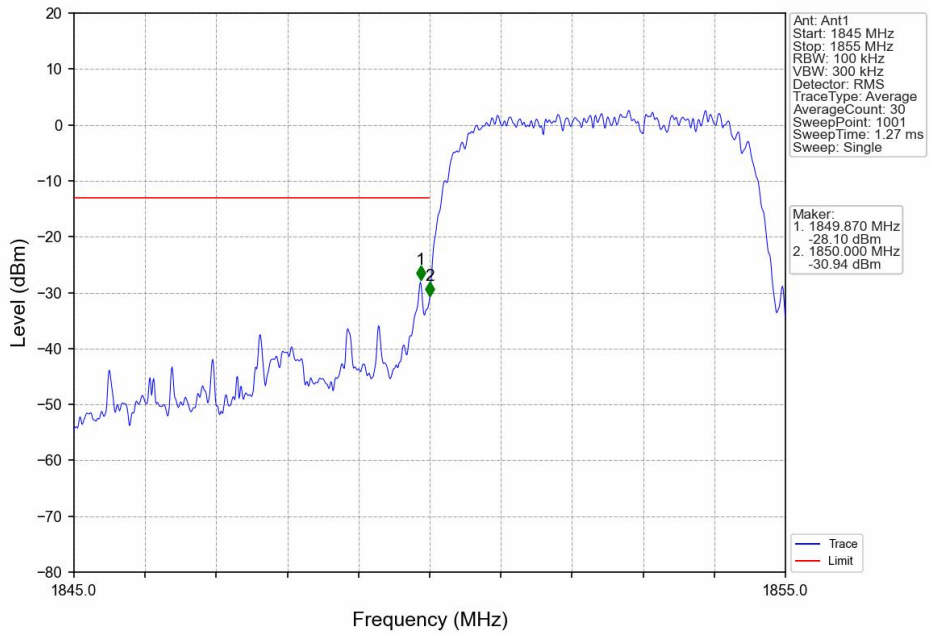
Band2_RMC_HCH_1907.6MHz_12.2kbps_RMC_NTNV



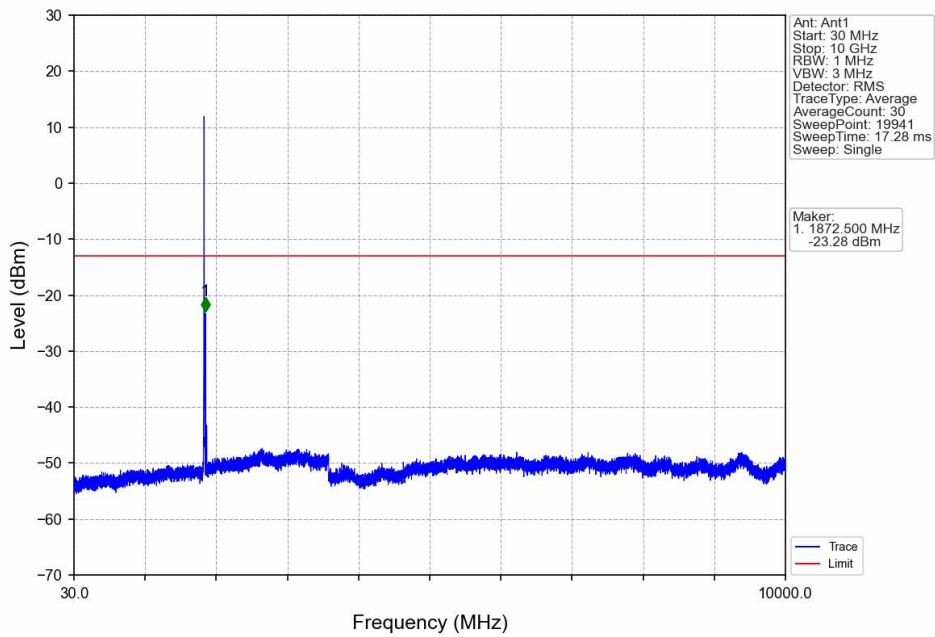
Band2_RMC_HCH_1907.6MHz_12.2kbps_RMC_NTNV



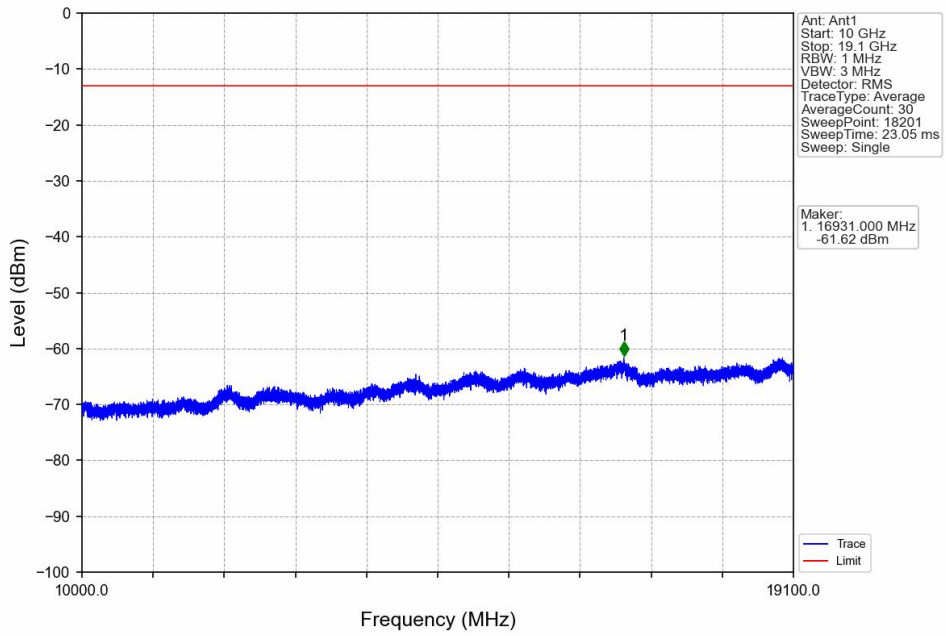
Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



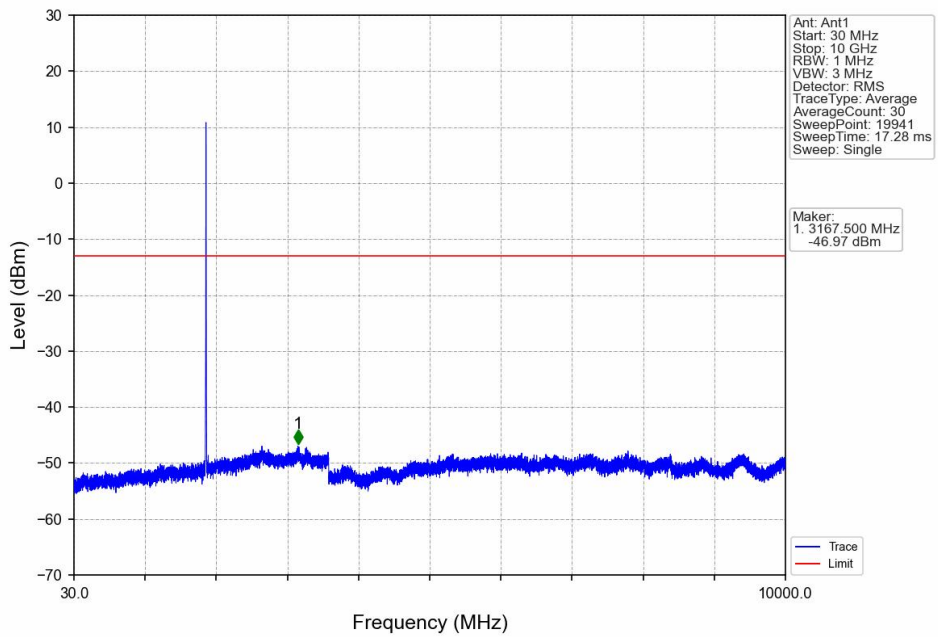
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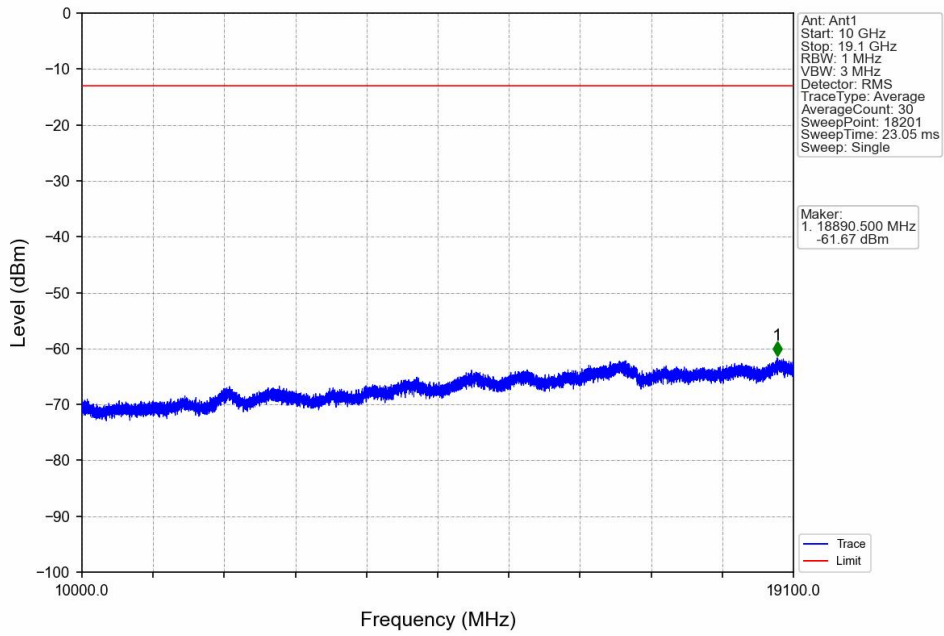
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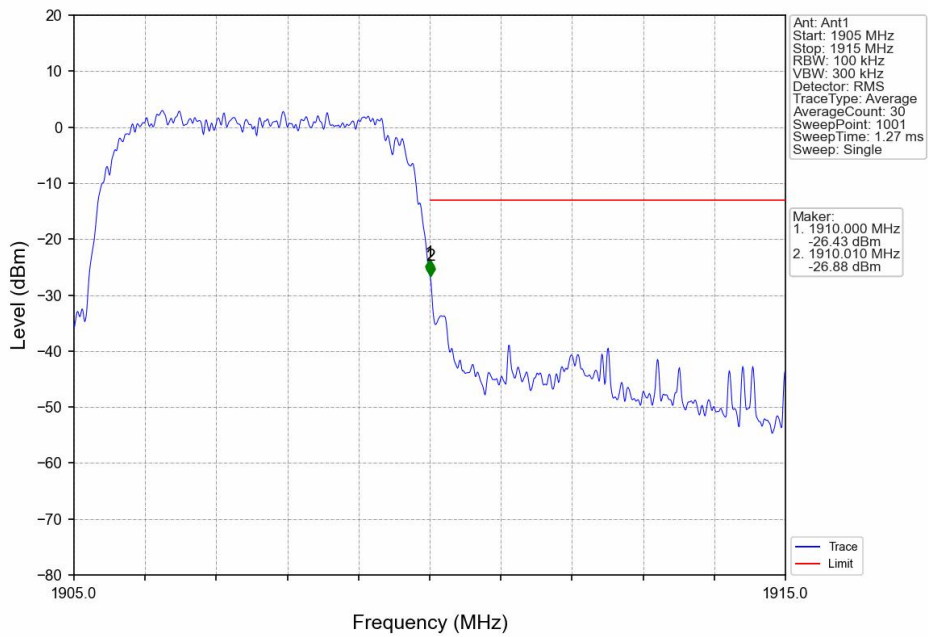
Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV



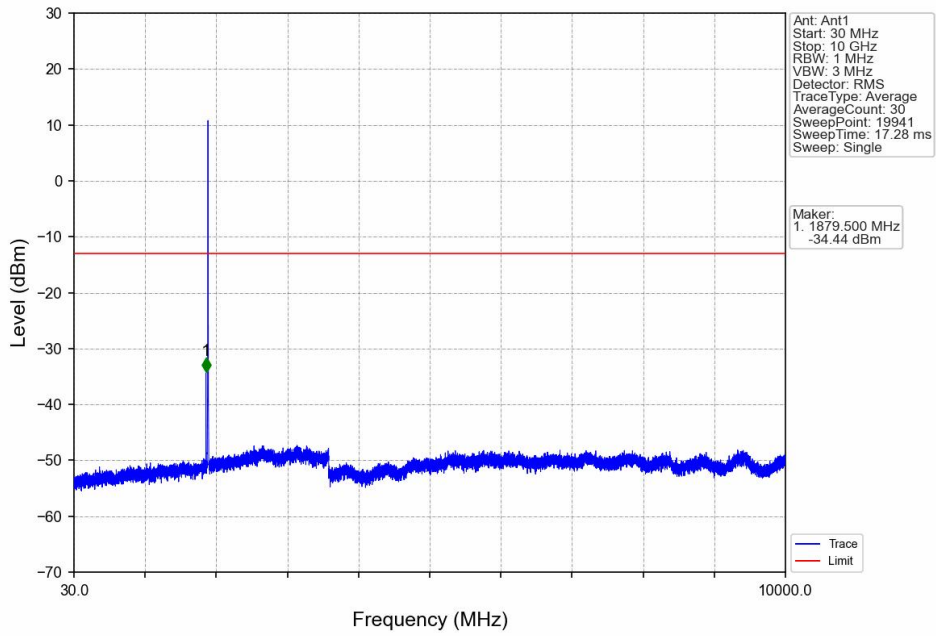
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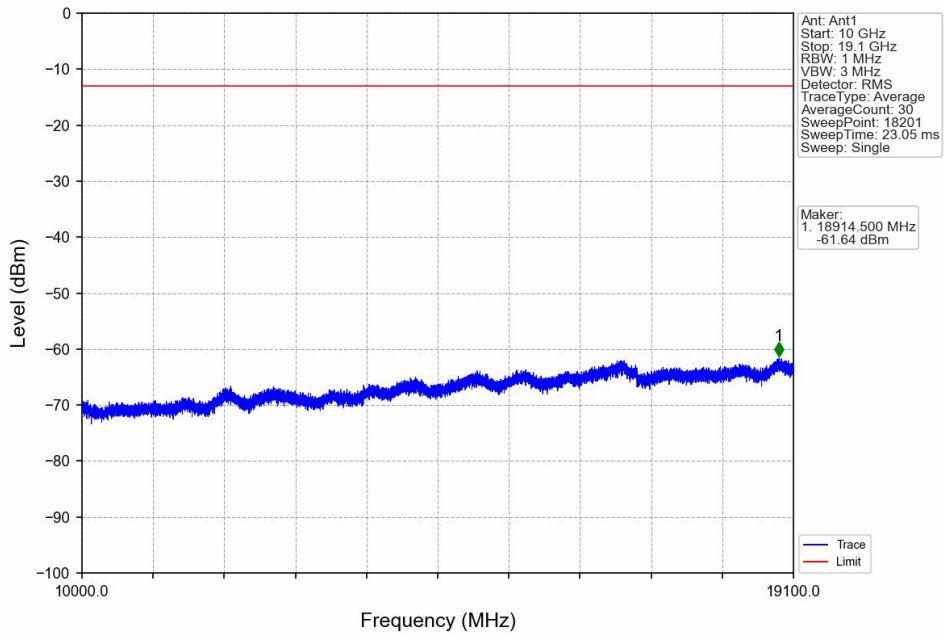
Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



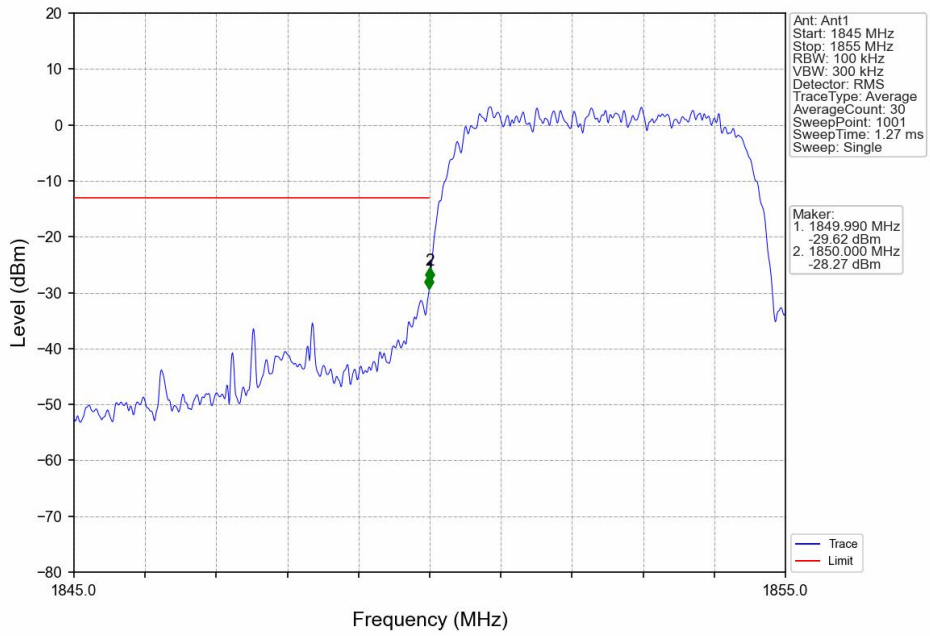
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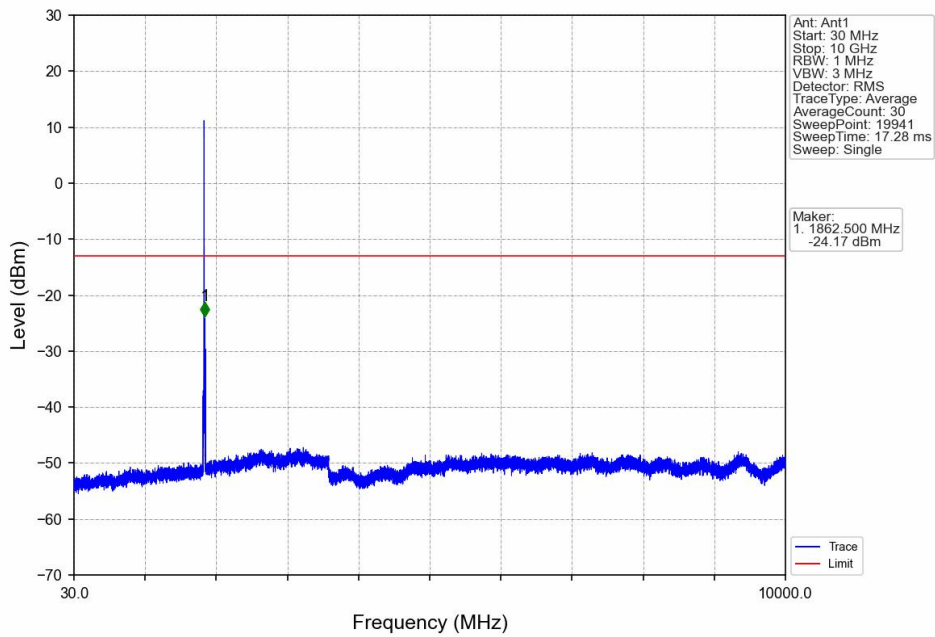
Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



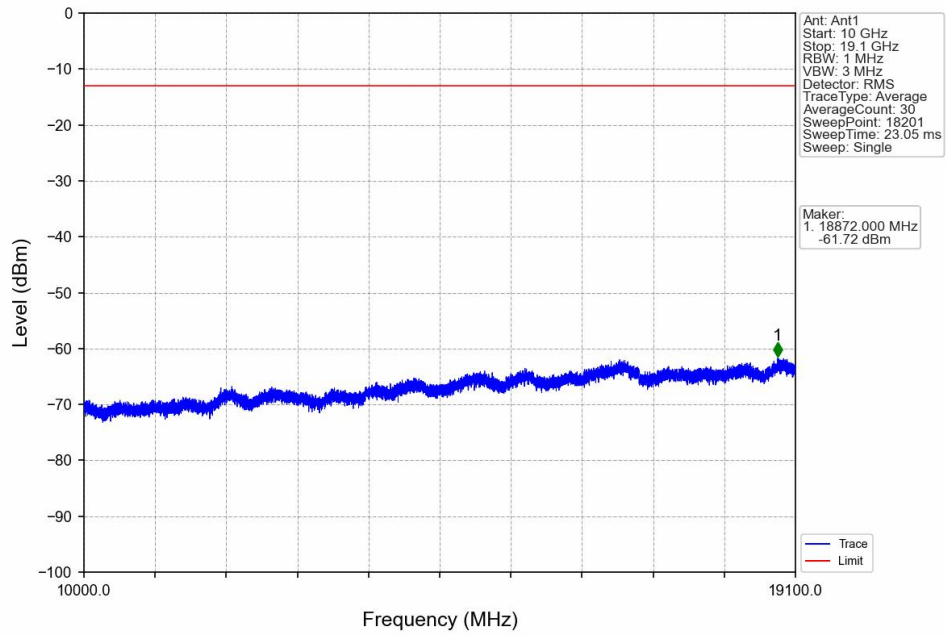
Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



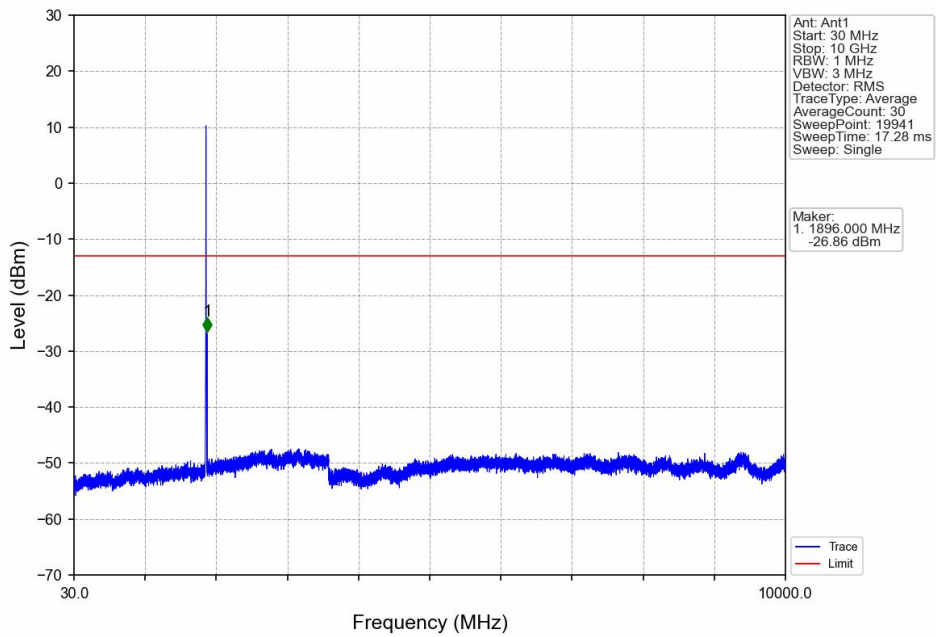
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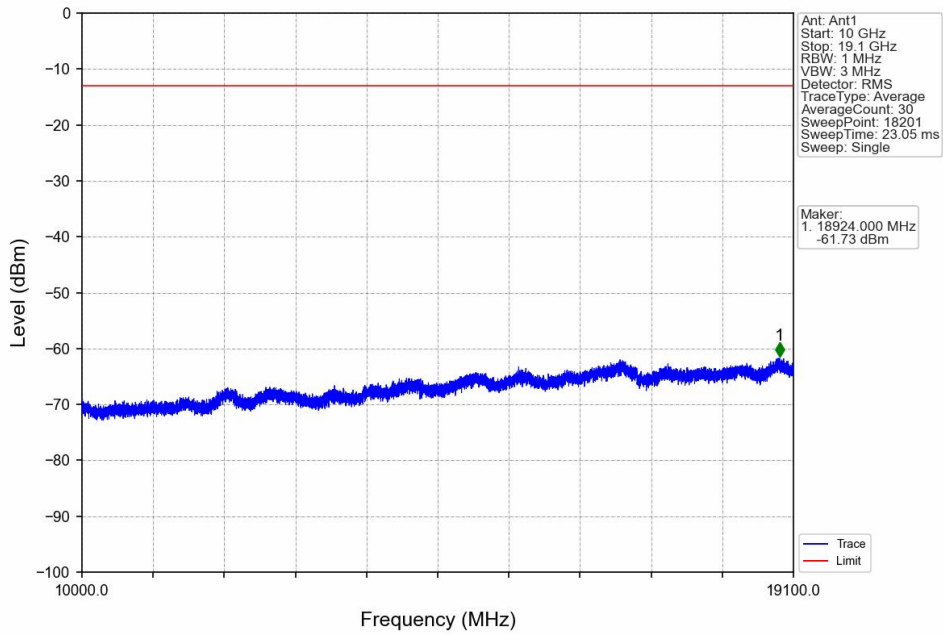
Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



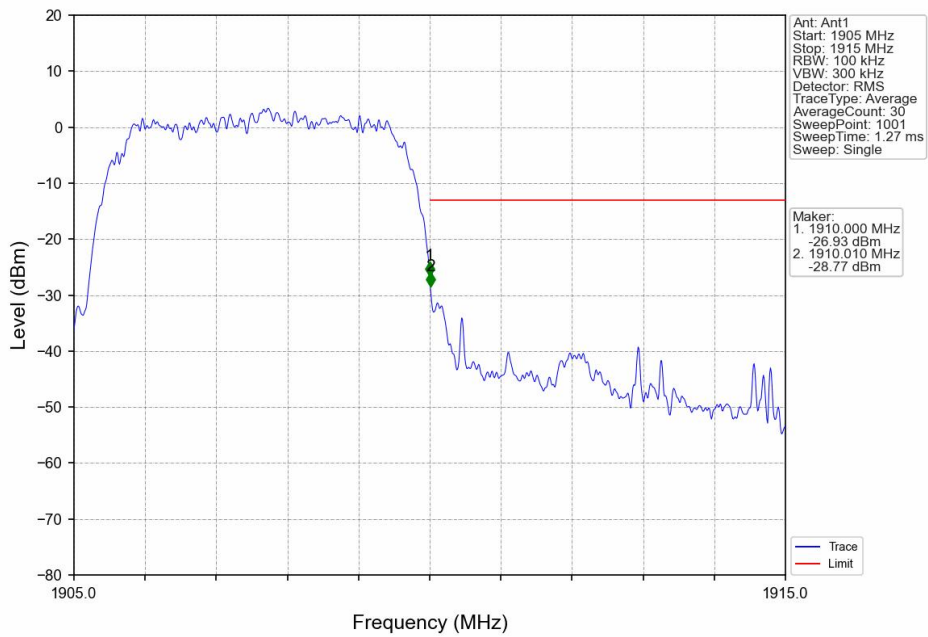
Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV



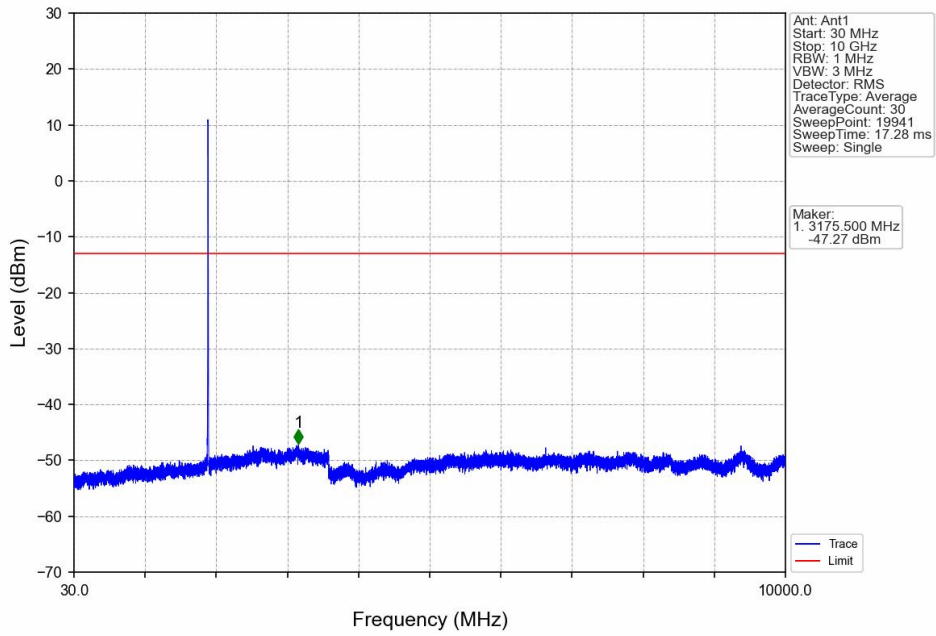
Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV



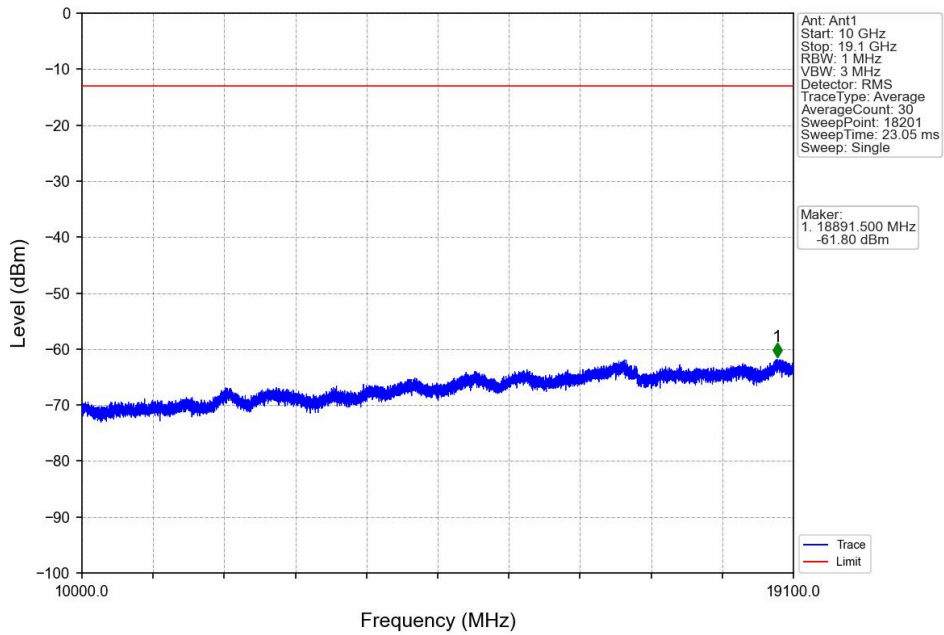
Band2_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



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	0.1279	0.0294	ppm	4M21F9W	24E	21.07

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	0.1419	0.0294	ppm	4M21F9W	24E	21.52