

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	20.63	-1.83	18.80	<=33.01	Pass	
			1880	20.61	-1.83	18.78	<=33.01	Pass	
			1907.6	21.25	-1.83	19.42	<=33.01	Pass	
	HSDPA	Subtest 1	1852.4	19.88	-1.83	18.05	<=33.01	Pass	
		Subtest 2	1852.4	19.89	-1.83	18.06	<=33.01	Pass	
		Subtest 3	1852.4	19.91	-1.83	18.08	<=33.01	Pass	
		Subtest 4	1852.4	19.89	-1.83	18.06	<=33.01	Pass	
		Subtest 1	1880	19.68	-1.83	17.85	<=33.01	Pass	
		Subtest 2	1880	19.66	-1.83	17.83	<=33.01	Pass	
		Subtest 3	1880	19.67	-1.83	17.84	<=33.01	Pass	
		Subtest 4	1880	19.63	-1.83	17.80	<=33.01	Pass	
		Subtest 1	1907.6	19.82	-1.83	17.99	<=33.01	Pass	
		Subtest 2	1907.6	19.82	-1.83	17.99	<=33.01	Pass	
		Subtest 3	1907.6	19.84	-1.83	18.01	<=33.01	Pass	
		Subtest 4	1907.6	19.83	-1.83	18.00	<=33.01	Pass	
		HSUPA	Subtest 1	1852.4	17.87	-1.83	16.04	<=33.01	Pass
			Subtest 2	1852.4	17.69	-1.83	15.86	<=33.01	Pass
			Subtest 3	1852.4	17.87	-1.83	16.04	<=33.01	Pass
			Subtest 4	1852.4	17.40	-1.83	15.57	<=33.01	Pass
			Subtest 5	1852.4	17.86	-1.83	16.03	<=33.01	Pass
	Subtest 1		1880	17.67	-1.83	15.84	<=33.01	Pass	
	Subtest 2		1880	17.48	-1.83	15.65	<=33.01	Pass	
	Subtest 3		1880	17.13	-1.83	15.30	<=33.01	Pass	
	Subtest 4		1880	17.66	-1.83	15.83	<=33.01	Pass	
	Subtest 5		1880	17.13	-1.83	15.30	<=33.01	Pass	
	Subtest 1		1907.6	17.84	-1.83	16.01	<=33.01	Pass	
	Subtest 2		1907.6	17.83	-1.83	16.00	<=33.01	Pass	
	Subtest 3		1907.6	17.64	-1.83	15.81	<=33.01	Pass	
	Subtest 4	1907.6	17.30	-1.83	15.47	<=33.01	Pass		
	Subtest 5	1907.6	17.82	-1.83	15.99	<=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	-2.768	-0.0015	-2.5 to 2.5	Pass
			3.85	-4.520	-0.0024	-2.5 to 2.5	Pass
			4.43	-3.741	-0.0020	-2.5 to 2.5	Pass

		-30	3.85	-4.070	-0.0022	-2.5 to 2.5	Pass		
		-20	3.85	-2.789	-0.0015	-2.5 to 2.5	Pass		
		-10	3.85	-2.167	-0.0012	-2.5 to 2.5	Pass		
		0	3.85	-3.426	-0.0018	-2.5 to 2.5	Pass		
		10	3.85	-2.682	-0.0014	-2.5 to 2.5	Pass		
		30	3.85	-3.347	-0.0018	-2.5 to 2.5	Pass		
		40	3.85	-1.838	-0.0010	-2.5 to 2.5	Pass		
	50	3.85	-1.574	-0.0008	-2.5 to 2.5	Pass			
	1880	20	3.27	-3.061	-0.0016	-2.5 to 2.5	Pass		
			3.85	-1.731	-0.0009	-2.5 to 2.5	Pass		
			4.43	-0.930	-0.0005	-2.5 to 2.5	Pass		
		-30	3.85	-0.937	-0.0005	-2.5 to 2.5	Pass		
		-20	3.85	-0.057	0.0000	-2.5 to 2.5	Pass		
		-10	3.85	-0.758	-0.0004	-2.5 to 2.5	Pass		
		0	3.85	-2.289	-0.0012	-2.5 to 2.5	Pass		
		10	3.85	0.916	0.0005	-2.5 to 2.5	Pass		
		30	3.85	0.343	0.0002	-2.5 to 2.5	Pass		
		40	3.85	0.107	0.0001	-2.5 to 2.5	Pass		
		50	3.85	-1.016	-0.0005	-2.5 to 2.5	Pass		
		1907.6	20	3.27	-2.739	-0.0014	-2.5 to 2.5	Pass	
				3.85	-2.911	-0.0015	-2.5 to 2.5	Pass	
	4.43			-2.596	-0.0014	-2.5 to 2.5	Pass		
	-30		3.85	-0.916	-0.0005	-2.5 to 2.5	Pass		
	-20		3.85	-0.758	-0.0004	-2.5 to 2.5	Pass		
	-10		3.85	-0.629	-0.0003	-2.5 to 2.5	Pass		
	0		3.85	-0.572	-0.0003	-2.5 to 2.5	Pass		
	10		3.85	-0.243	-0.0001	-2.5 to 2.5	Pass		
	30		3.85	0.000	0.0000	-2.5 to 2.5	Pass		
	40		3.85	-1.781	-0.0009	-2.5 to 2.5	Pass		
	50		3.85	2.403	0.0013	-2.5 to 2.5	Pass		
	HSDPA		1852.4	20	3.27	-2.089	-0.0011	-2.5 to 2.5	Pass
					3.85	-3.183	-0.0017	-2.5 to 2.5	Pass
		4.43			-3.312	-0.0018	-2.5 to 2.5	Pass	
-30		3.85		-2.503	-0.0014	-2.5 to 2.5	Pass		
-20		3.85		-1.402	-0.0008	-2.5 to 2.5	Pass		
-10		3.85		-0.873	-0.0005	-2.5 to 2.5	Pass		
0		3.85		-2.797	-0.0015	-2.5 to 2.5	Pass		
10		3.85		0.257	0.0001	-2.5 to 2.5	Pass		
30		3.85		-4.056	-0.0022	-2.5 to 2.5	Pass		
40		3.85		2.210	0.0012	-2.5 to 2.5	Pass		
50		3.85		-4.091	-0.0022	-2.5 to 2.5	Pass		
1880		20		3.27	3.176	0.0017	-2.5 to 2.5	Pass	
				3.85	1.051	0.0006	-2.5 to 2.5	Pass	
			4.43	1.023	0.0005	-2.5 to 2.5	Pass		
		-30	3.85	-3.126	-0.0017	-2.5 to 2.5	Pass		
		-20	3.85	-4.177	-0.0022	-2.5 to 2.5	Pass		
		-10	3.85	1.388	0.0007	-2.5 to 2.5	Pass		
		0	3.85	-0.851	-0.0005	-2.5 to 2.5	Pass		
		10	3.85	-3.383	-0.0018	-2.5 to 2.5	Pass		
30		3.85	-3.412	-0.0018	-2.5 to 2.5	Pass			
40		3.85	-0.150	-0.0001	-2.5 to 2.5	Pass			
50	3.85	-3.512	-0.0019	-2.5 to 2.5	Pass				
1907.6	20	3.27	2.475	0.0013	-2.5 to 2.5	Pass			
		3.85	-1.581	-0.0008	-2.5 to 2.5	Pass			
		4.43	-1.330	-0.0007	-2.5 to 2.5	Pass			
	-30	3.85	-4.184	-0.0022	-2.5 to 2.5	Pass			
	-20	3.85	-2.203	-0.0012	-2.5 to 2.5	Pass			

		-10	3.85	-0.165	-0.0001	-2.5 to 2.5	Pass
		0	3.85	-1.094	-0.0006	-2.5 to 2.5	Pass
		10	3.85	-0.980	-0.0005	-2.5 to 2.5	Pass
		30	3.85	-0.200	-0.0001	-2.5 to 2.5	Pass
		40	3.85	-1.194	-0.0006	-2.5 to 2.5	Pass
		50	3.85	-3.870	-0.0020	-2.5 to 2.5	Pass
HSUPA	1852.4	20	3.27	8.819	0.0048	-2.5 to 2.5	Pass
			3.85	2.854	0.0015	-2.5 to 2.5	Pass
			4.43	4.184	0.0023	-2.5 to 2.5	Pass
		-30	3.85	3.226	0.0017	-2.5 to 2.5	Pass
		-20	3.85	4.470	0.0024	-2.5 to 2.5	Pass
		-10	3.85	-0.544	-0.0003	-2.5 to 2.5	Pass
		0	3.85	-0.007	0.0000	-2.5 to 2.5	Pass
		10	3.85	2.074	0.0011	-2.5 to 2.5	Pass
		30	3.85	4.563	0.0025	-2.5 to 2.5	Pass
		40	3.85	0.980	0.0005	-2.5 to 2.5	Pass
	50	3.85	0.973	0.0005	-2.5 to 2.5	Pass	
	1880	20	3.27	9.584	0.0051	-2.5 to 2.5	Pass
			3.85	3.748	0.0020	-2.5 to 2.5	Pass
			4.43	4.027	0.0021	-2.5 to 2.5	Pass
		-30	3.85	0.386	0.0002	-2.5 to 2.5	Pass
		-20	3.85	1.996	0.0011	-2.5 to 2.5	Pass
		-10	3.85	4.971	0.0026	-2.5 to 2.5	Pass
		0	3.85	7.024	0.0037	-2.5 to 2.5	Pass
		10	3.85	1.230	0.0007	-2.5 to 2.5	Pass
		30	3.85	4.148	0.0022	-2.5 to 2.5	Pass
		40	3.85	1.402	0.0007	-2.5 to 2.5	Pass
	50	3.85	2.925	0.0016	-2.5 to 2.5	Pass	
	1907.6	20	3.27	9.613	0.0050	-2.5 to 2.5	Pass
			3.85	3.741	0.0020	-2.5 to 2.5	Pass
			4.43	4.835	0.0025	-2.5 to 2.5	Pass
		-30	3.85	3.333	0.0017	-2.5 to 2.5	Pass
		-20	3.85	5.693	0.0030	-2.5 to 2.5	Pass
		-10	3.85	4.420	0.0023	-2.5 to 2.5	Pass
		0	3.85	3.133	0.0016	-2.5 to 2.5	Pass
		10	3.85	7.832	0.0041	-2.5 to 2.5	Pass
30		3.85	0.837	0.0004	-2.5 to 2.5	Pass	
40		3.85	4.764	0.0025	-2.5 to 2.5	Pass	
50	3.85	4.492	0.0024	-2.5 to 2.5	Pass		

3. Modulation Characteristics

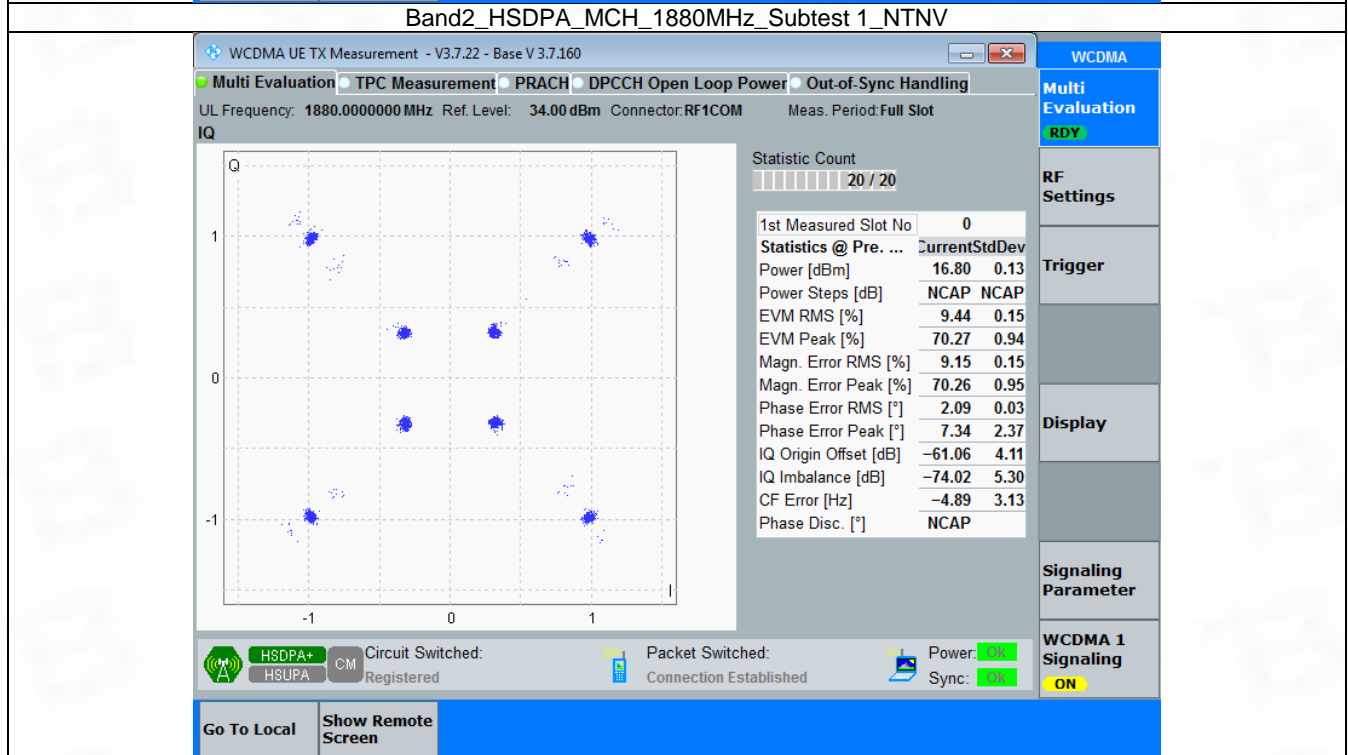
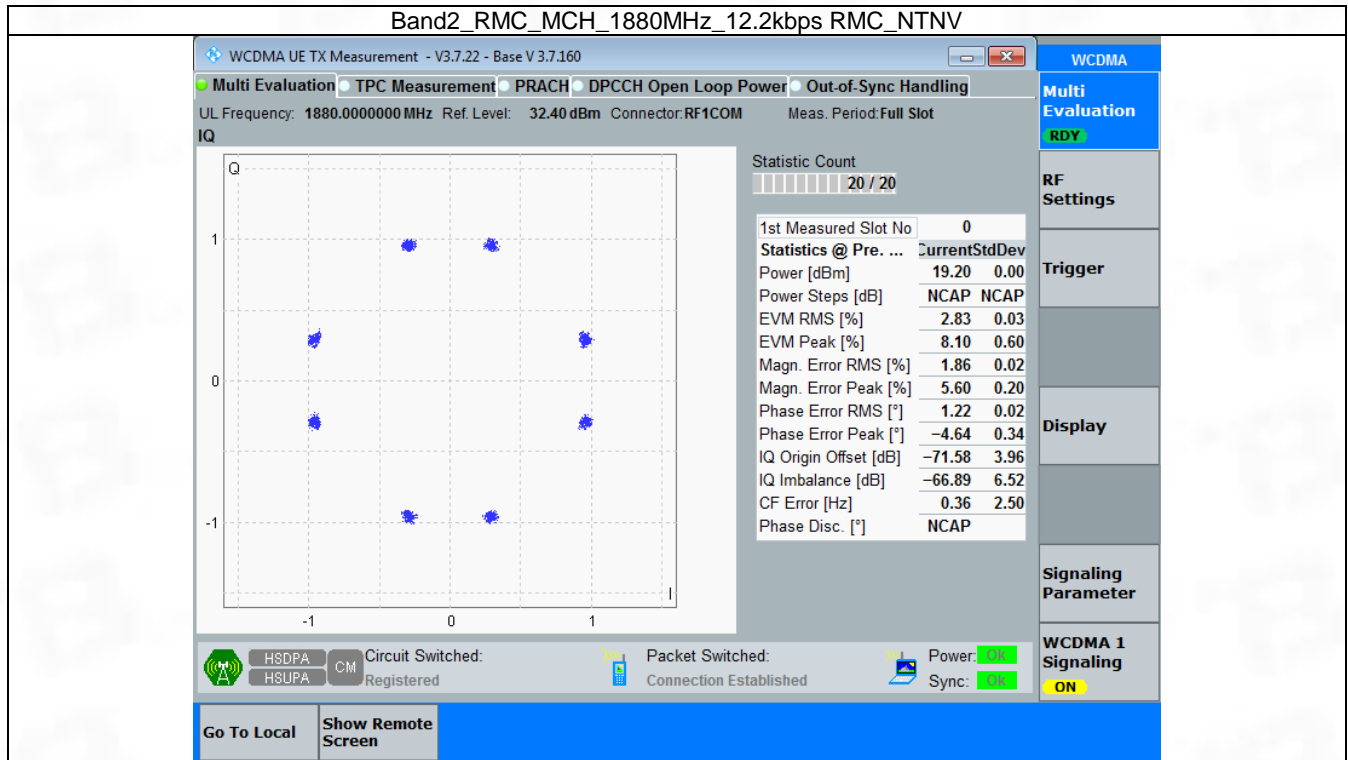
3.1 Band2

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
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3.1.2 Test Graph



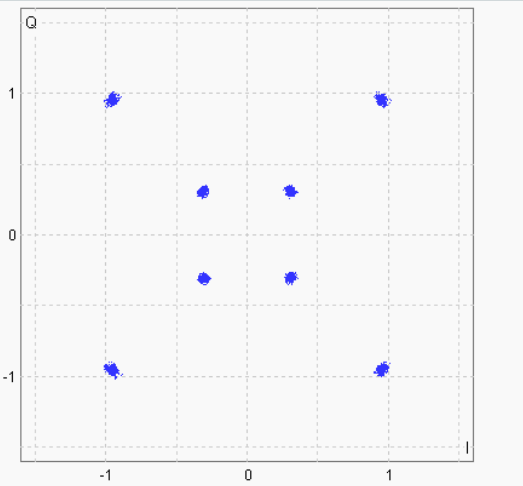
Band2_HSUPA_MCH_1880MHz_Subtest_1_NTNV

WCDMA UE TX Measurement - V3.7.22 - Base V 3.7.160

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

UL Frequency: 1880.000000 MHz Ref. Level: 34.00 dBm Connector:RF1COM Meas. Period:Full Slot

IQ



Statistic Count: 20 / 20

1st Measured Slot No	CurrentStdDev
0	
Power [dBm]	17.29 2.46
Power Steps [dB]	NCAP NCAP
EVM RMS [%]	2.71 4.08
EVM Peak [%]	7.35 35.05
Magn. Error RMS [%]	1.76 4.35
Magn. Error Peak [%]	4.53 36.17
Phase Error RMS [°]	1.89 0.32
Phase Error Peak [°]	7.03 3.83
IQ Origin Offset [dB]	-76.71 7.61
IQ Imbalance [dB]	-70.20 5.50
CF Error [Hz]	4.81 7.47
Phase Disc. [°]	NCAP

HSDPA+ HSDPA CM Circuit Switched: Registered
 Packet Switched: Connection Established
 Power: Sync:

WCDMA
 Multi Evaluation **RDY**
 RF Settings
 Trigger
 Display
 Signaling Parameter
 WCDMA 1 Signaling **ON**

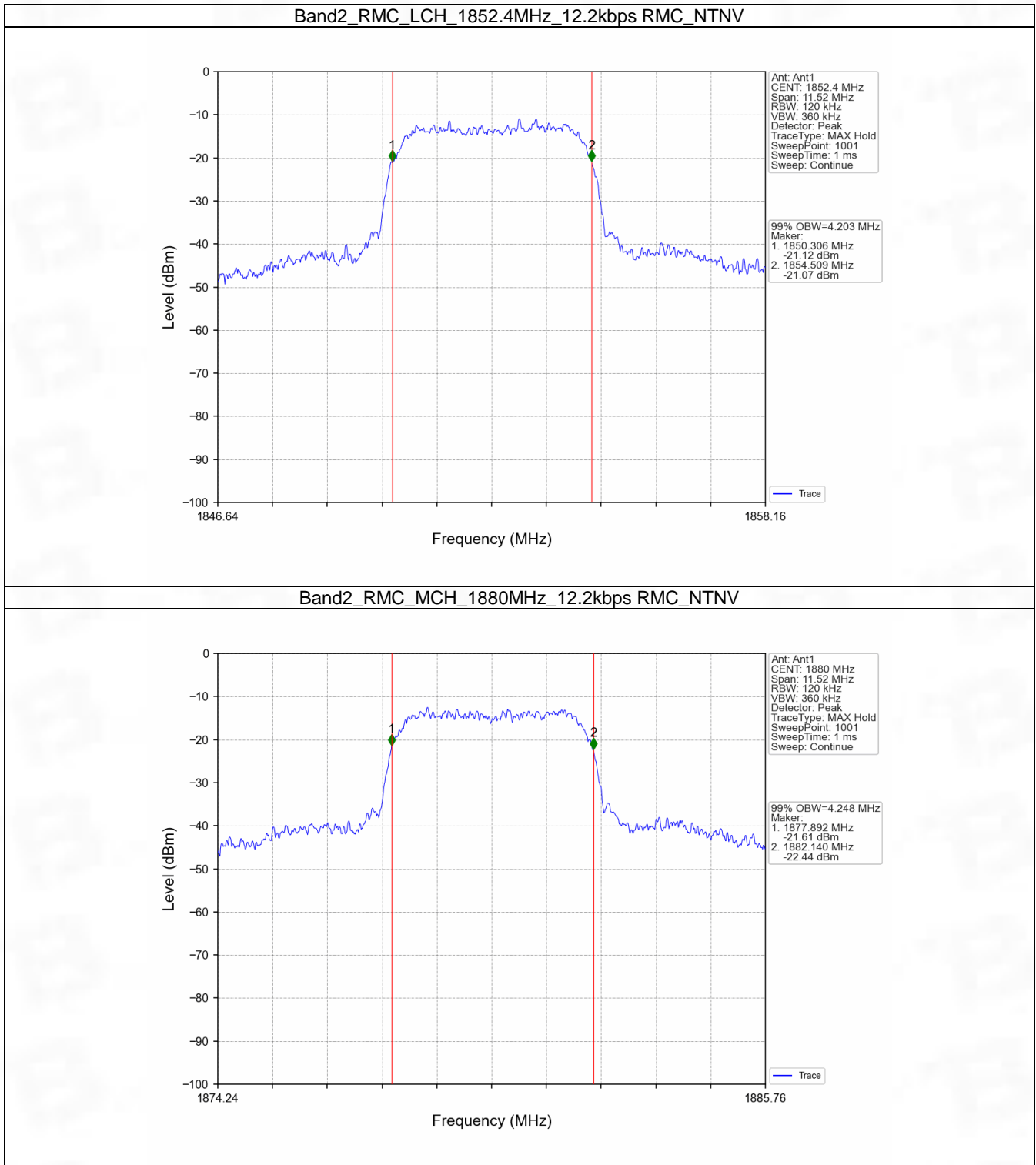
4. 99% & 26dB Bandwidth

4.1 Band2_OBW

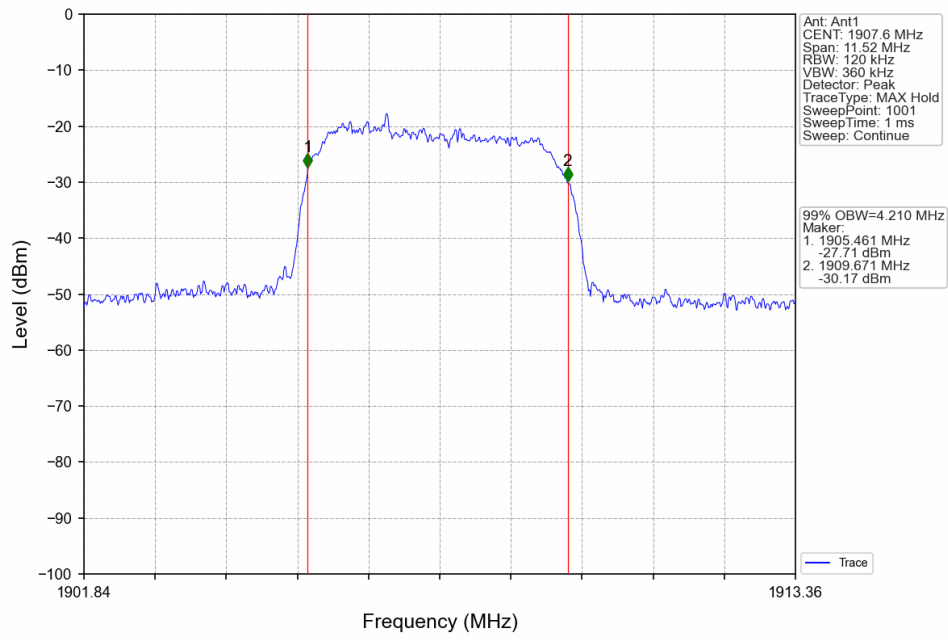
4.1.1 Test Result

Band: 2					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	1852.4	4.203	Pass
			1880	4.248	Pass
			1907.6	4.210	Pass
	HSDPA	Subtest 1	1852.4	4.174	Pass
			1880	4.208	Pass
			1907.6	5.126	Pass
	HSUPA	Subtest 1	1852.4	4.173	Pass
			1880	4.215	Pass
			1907.6	5.123	Pass

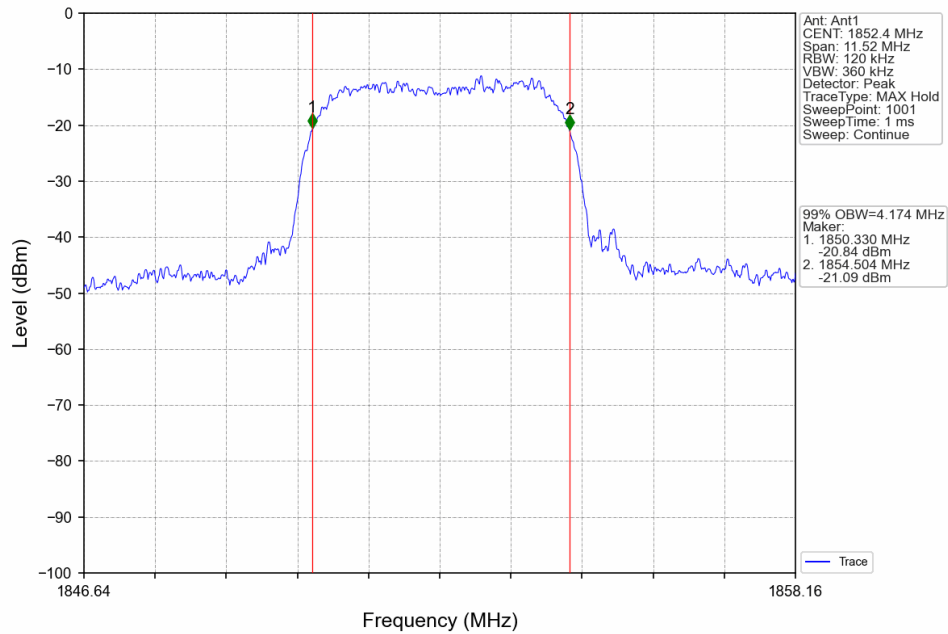
4.1.2 Test Graph



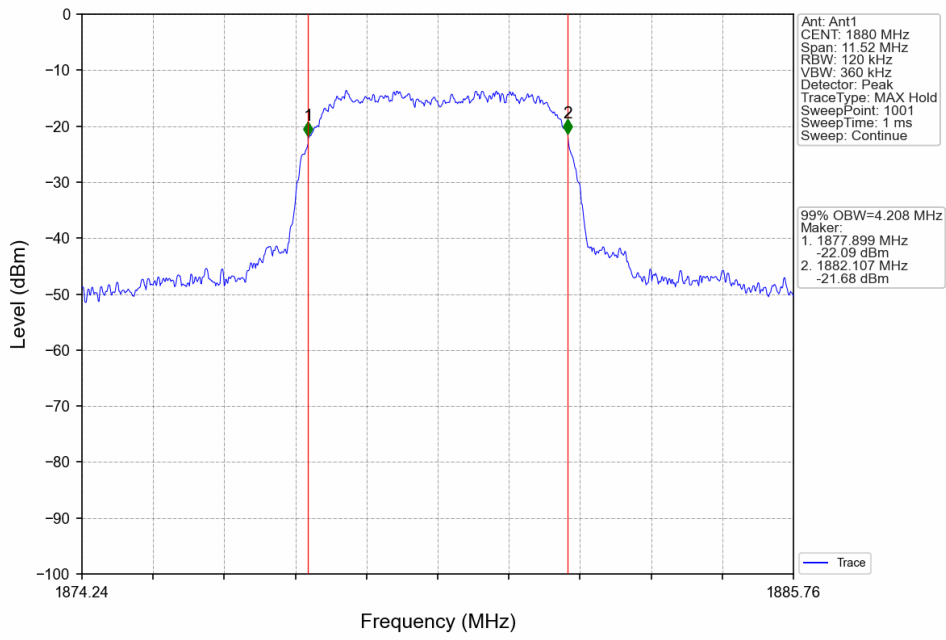
Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



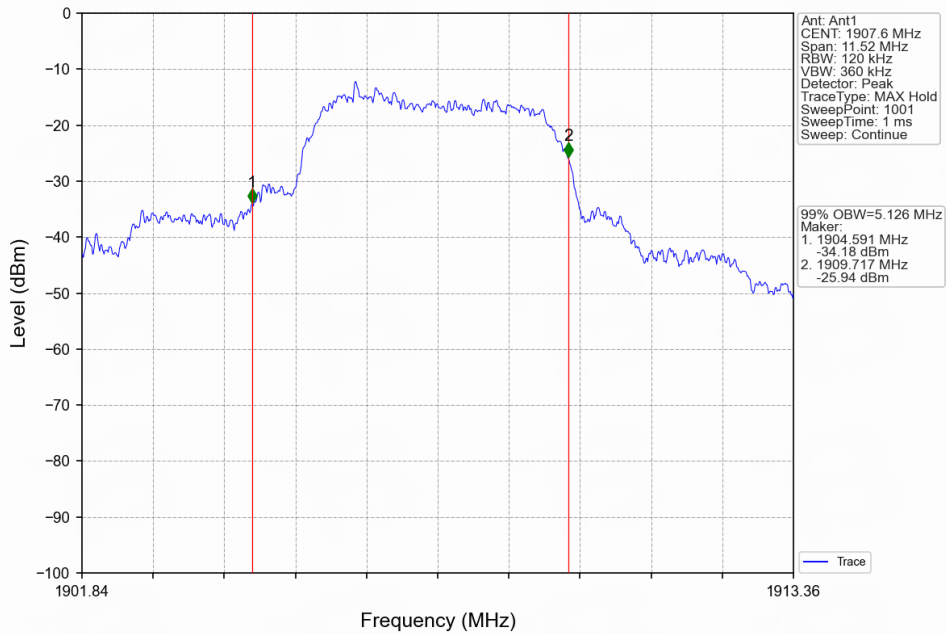
Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



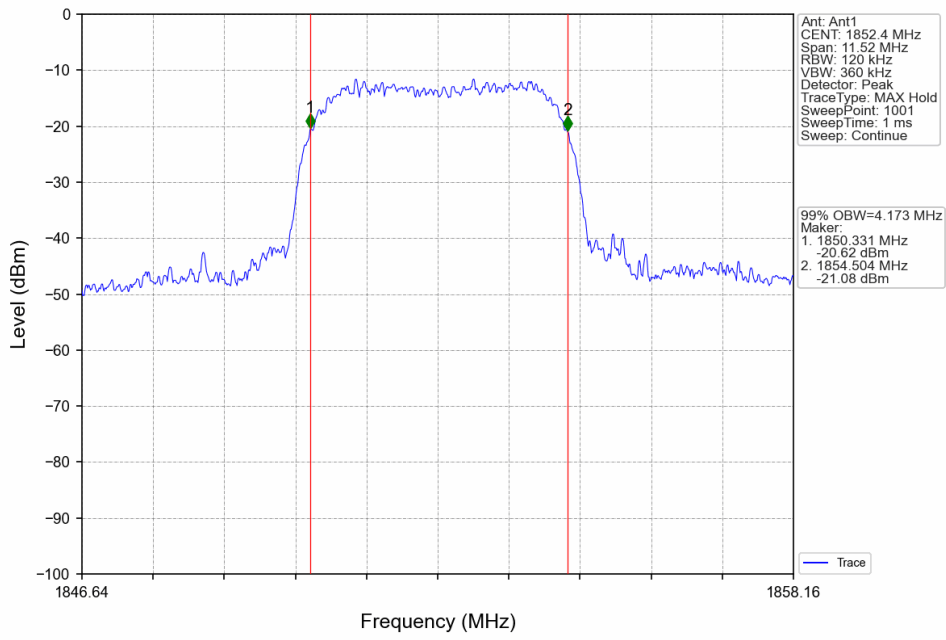
Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV



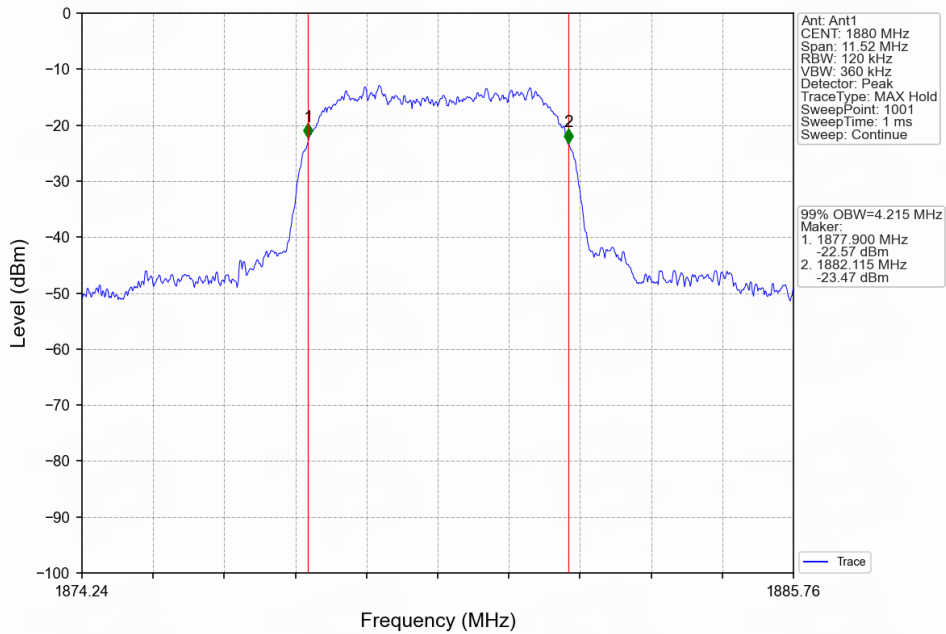
Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



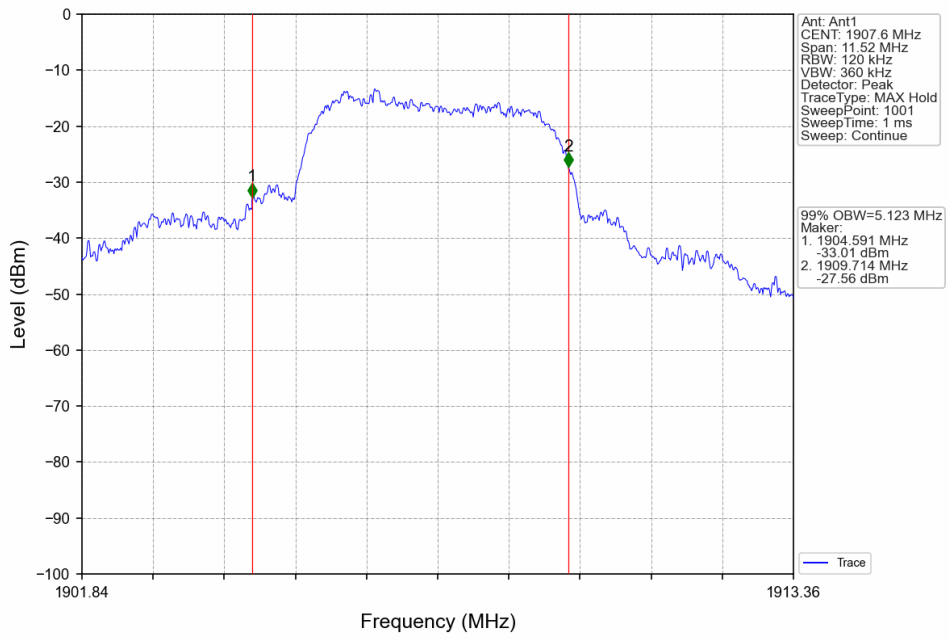
Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV



Band2_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV

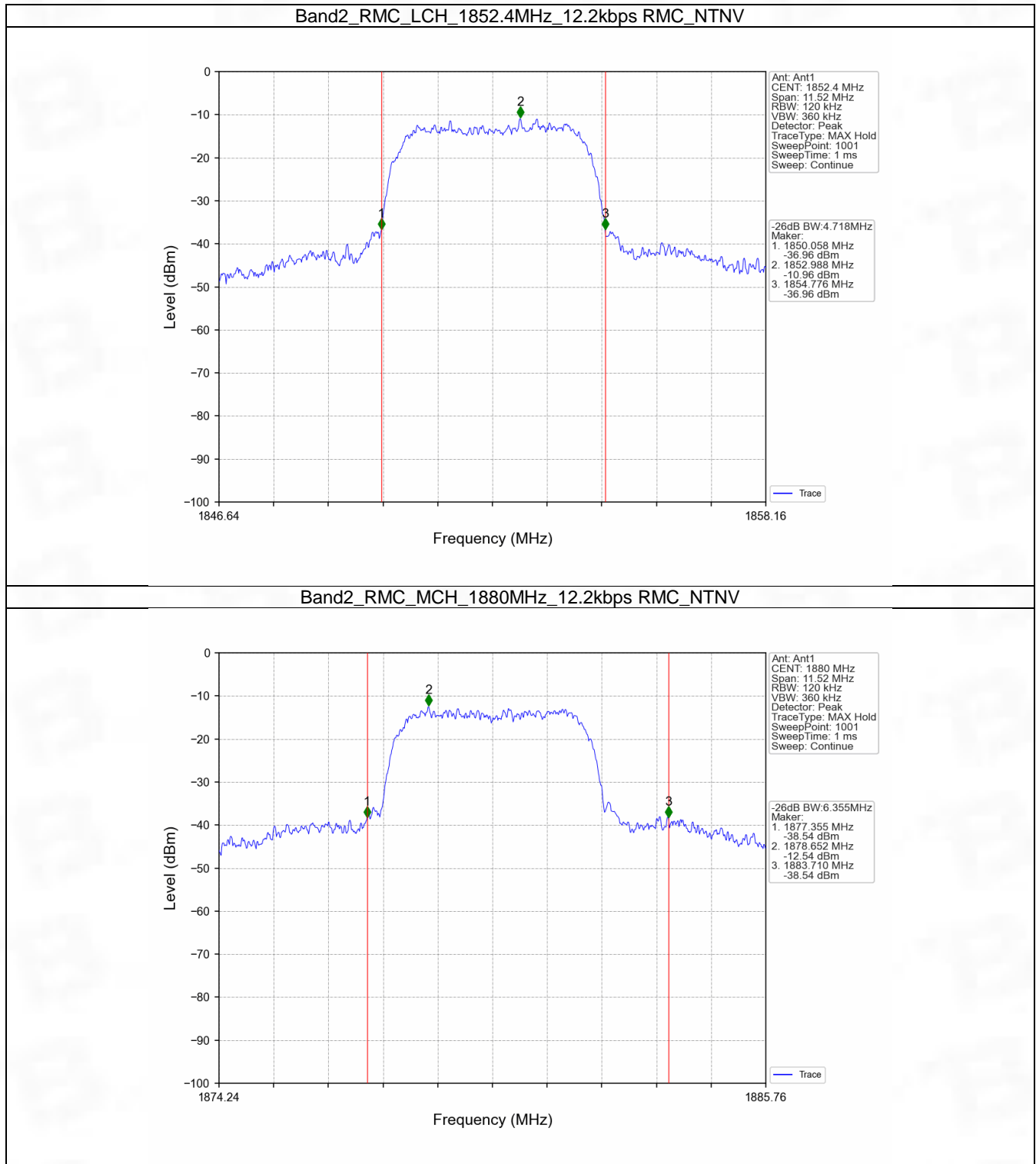


4.2 Band2_XDB

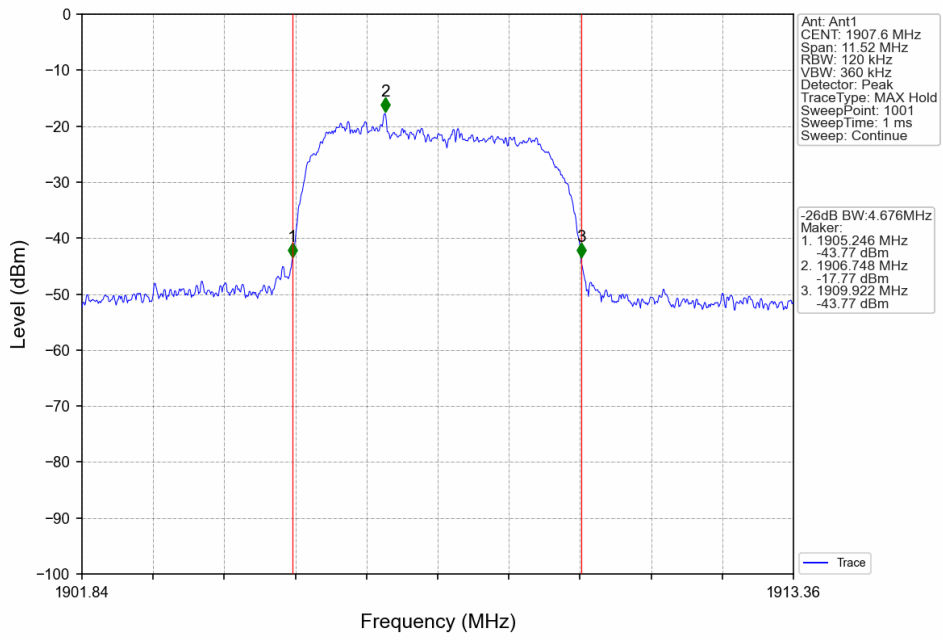
4.2.1 Test Result

Band: 2					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	1852.4	4.718	Pass
			1880	6.355	Pass
			1907.6	4.676	Pass
	HSDPA	Subtest 1	1852.4	4.752	Pass
			1880	4.803	Pass
			1907.6	7.964	Pass
	HSUPA	Subtest 1	1852.4	4.763	Pass
			1880	4.778	Pass
			1907.6	7.987	Pass

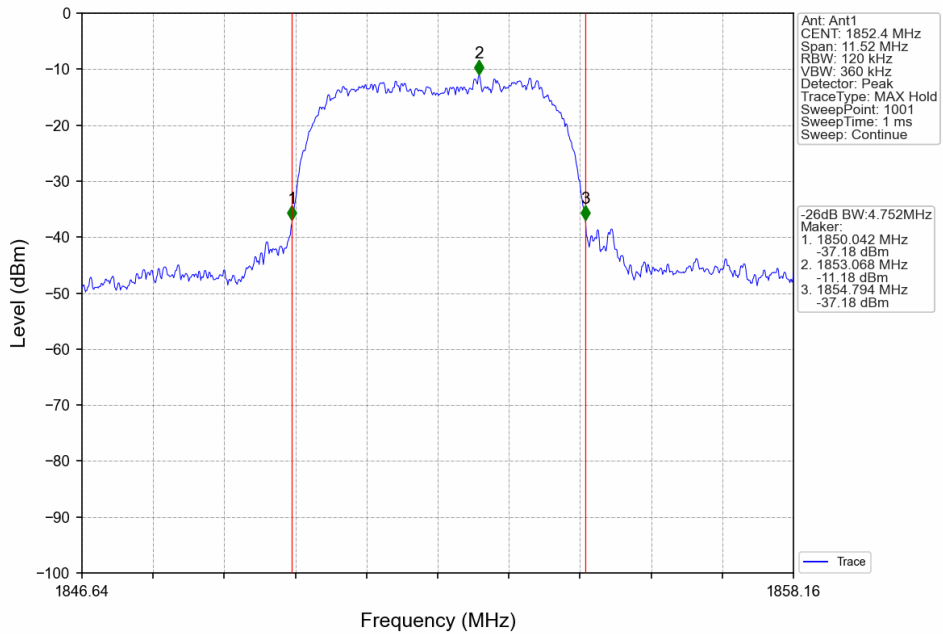
4.2.2 Test Graph



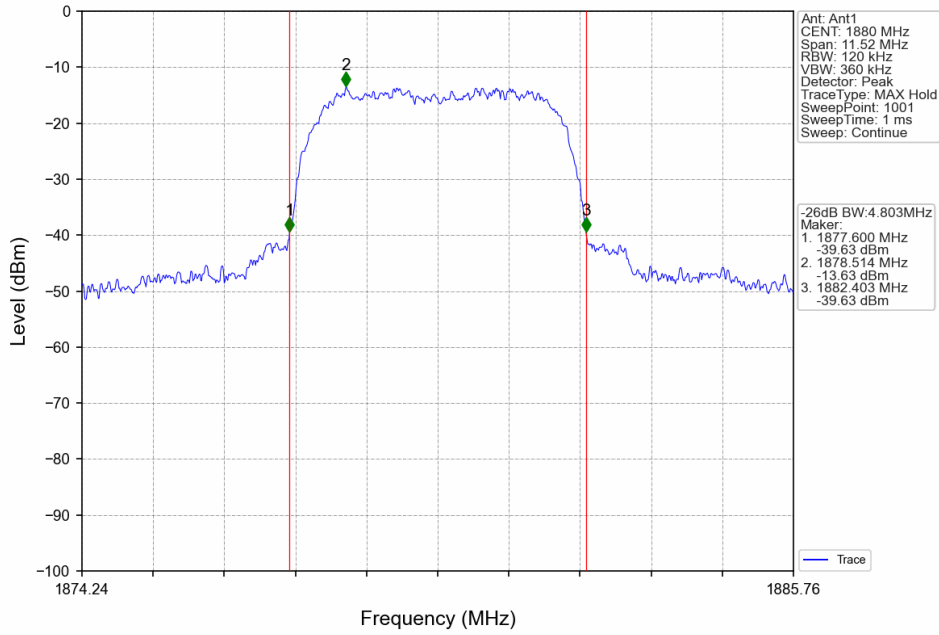
Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



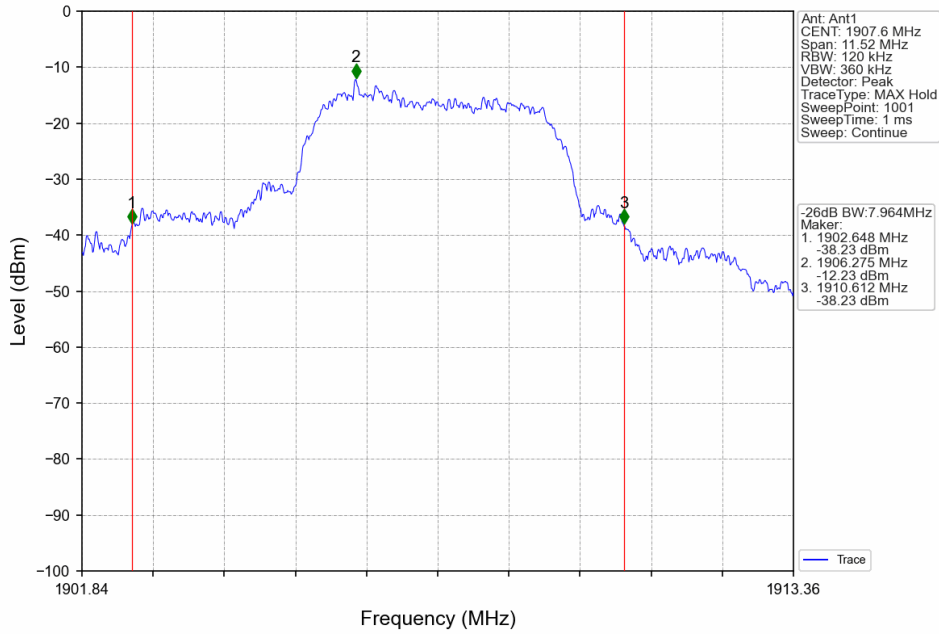
Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



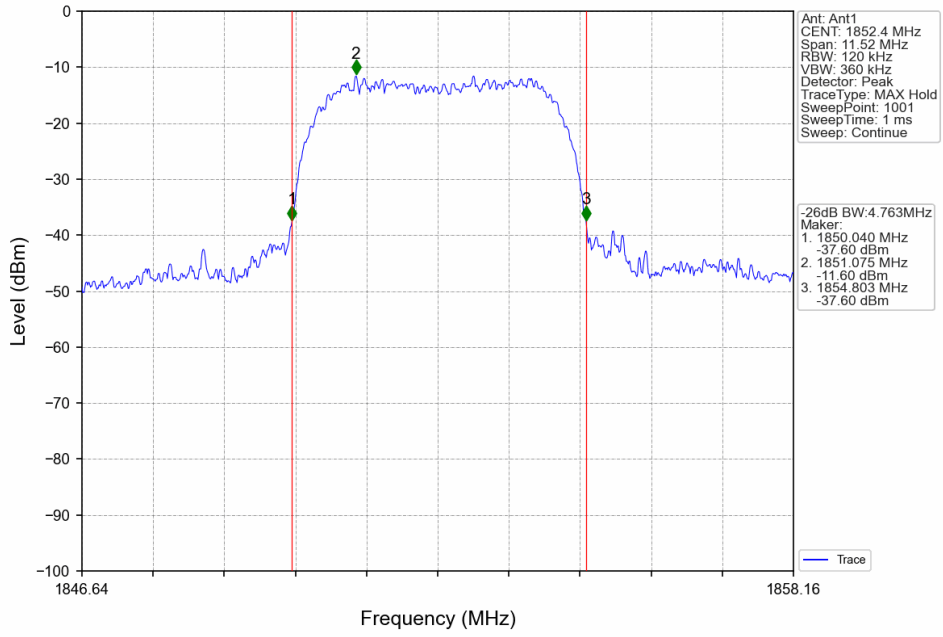
Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV



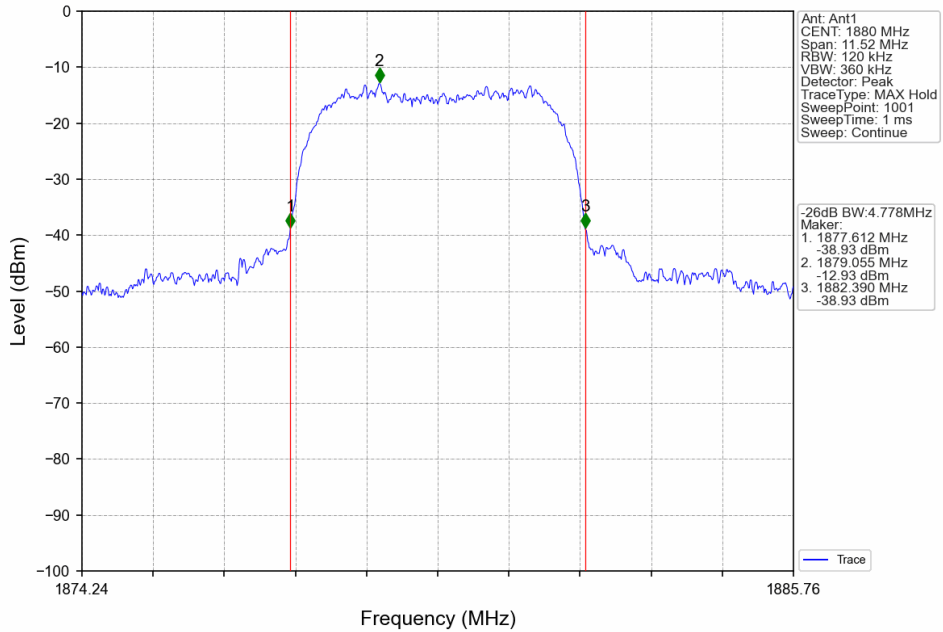
Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



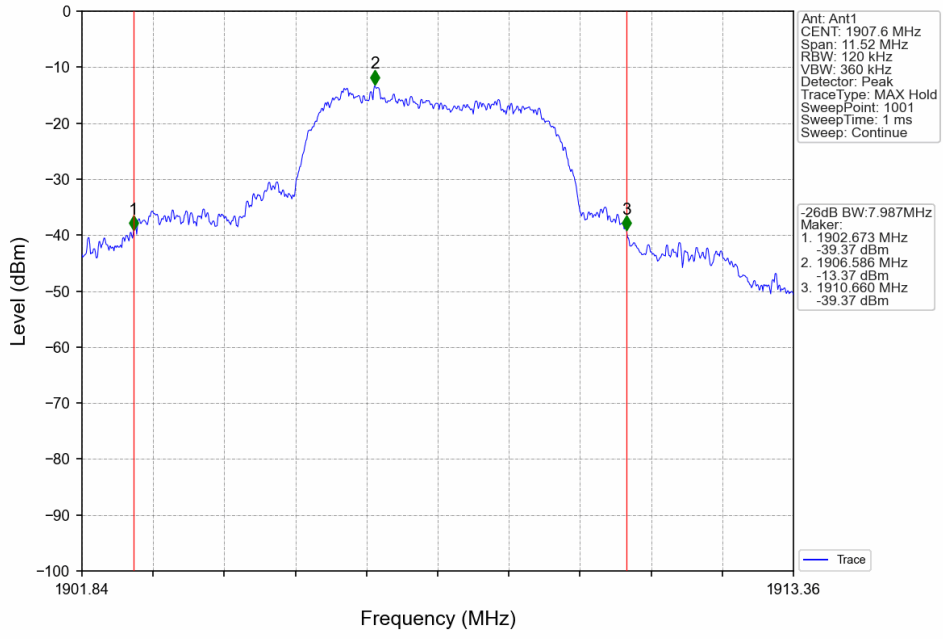
Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV



Band2_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



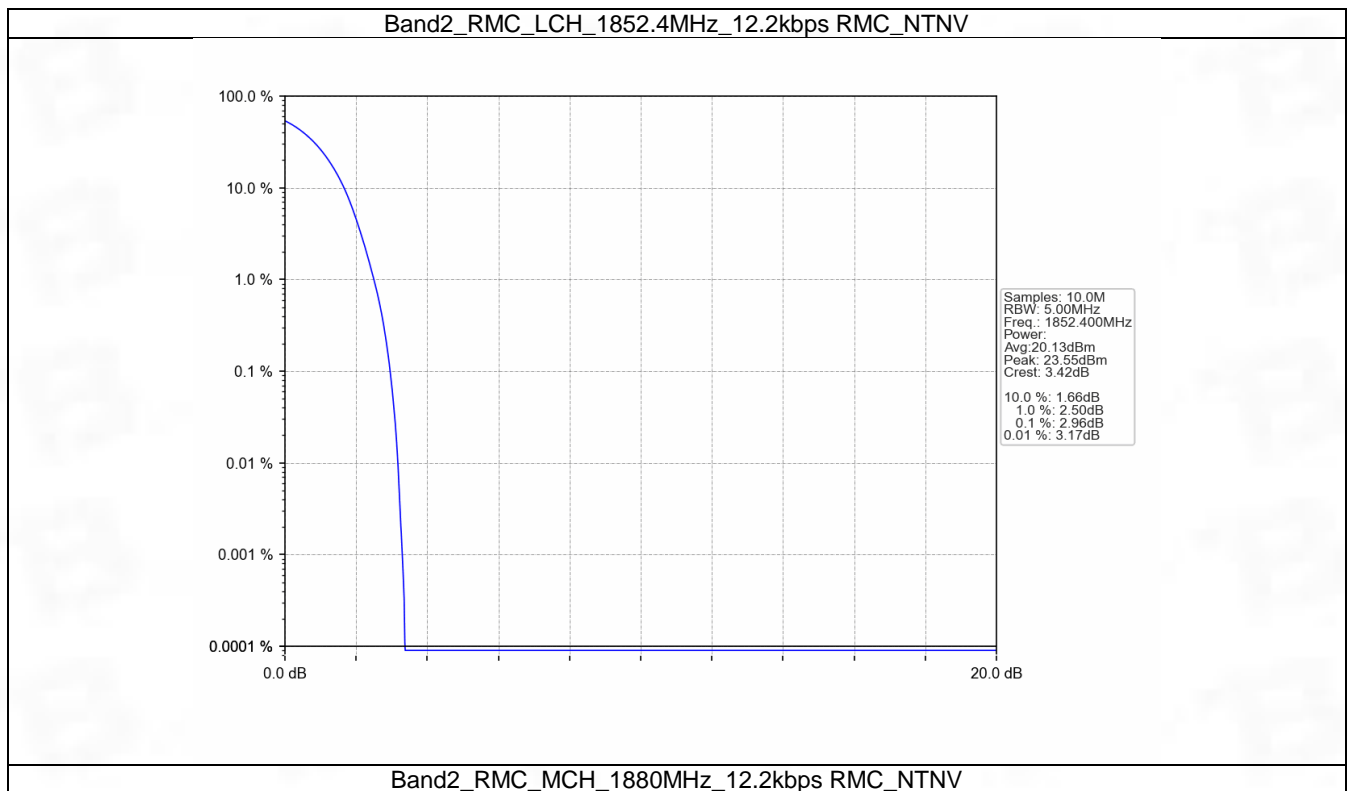
5. Peak-Average Ratio

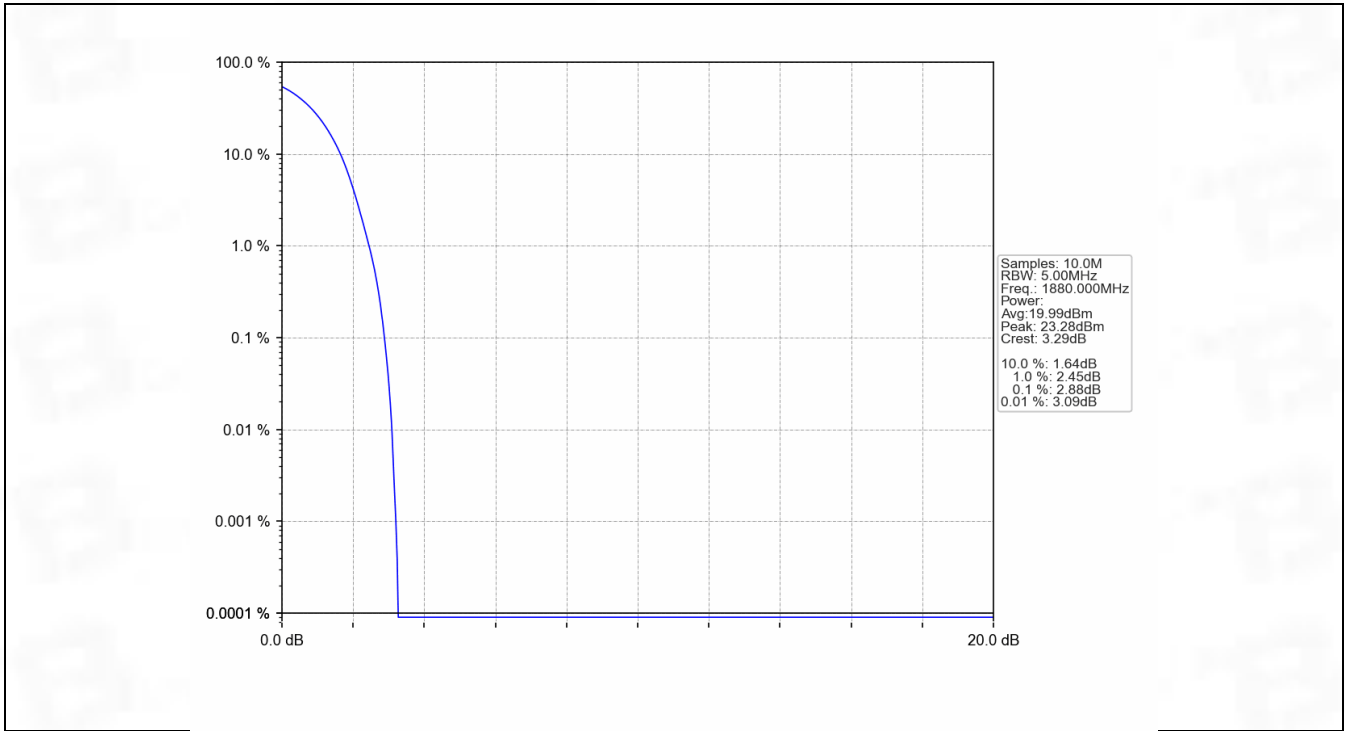
5.1 Band2

5.1.1 Test Result

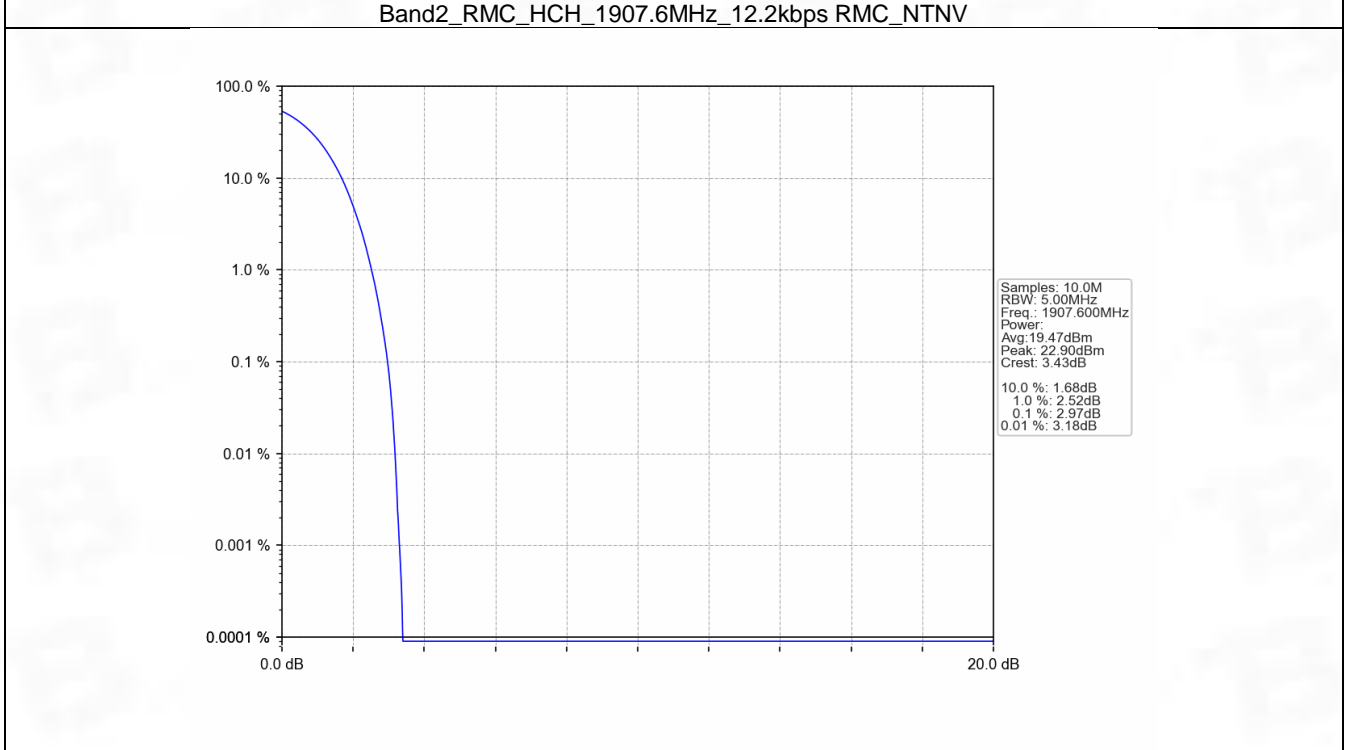
Band: 2						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	2.96	<=13	Pass
			1880	2.88	<=13	Pass
			1907.6	2.97	<=13	Pass
	HSDPA	Subtest 1	1852.4	5.56	<=13	Pass
			1880	5.42	<=13	Pass
			1907.6	5.72	<=13	Pass
	HSUPA	Subtest 1	1852.4	5.46	<=13	Pass
			1880	5.42	<=13	Pass
			1907.6	5.62	<=13	Pass

5.1.2 Test Graph

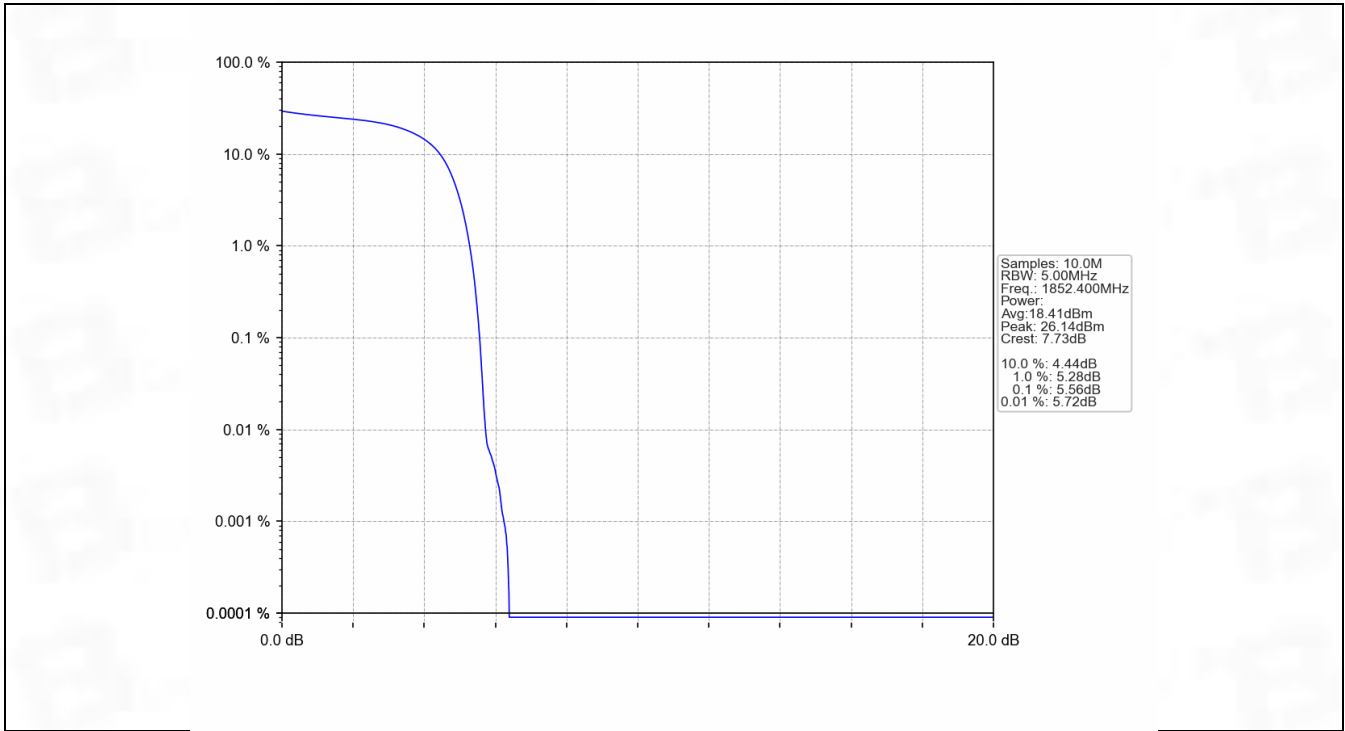




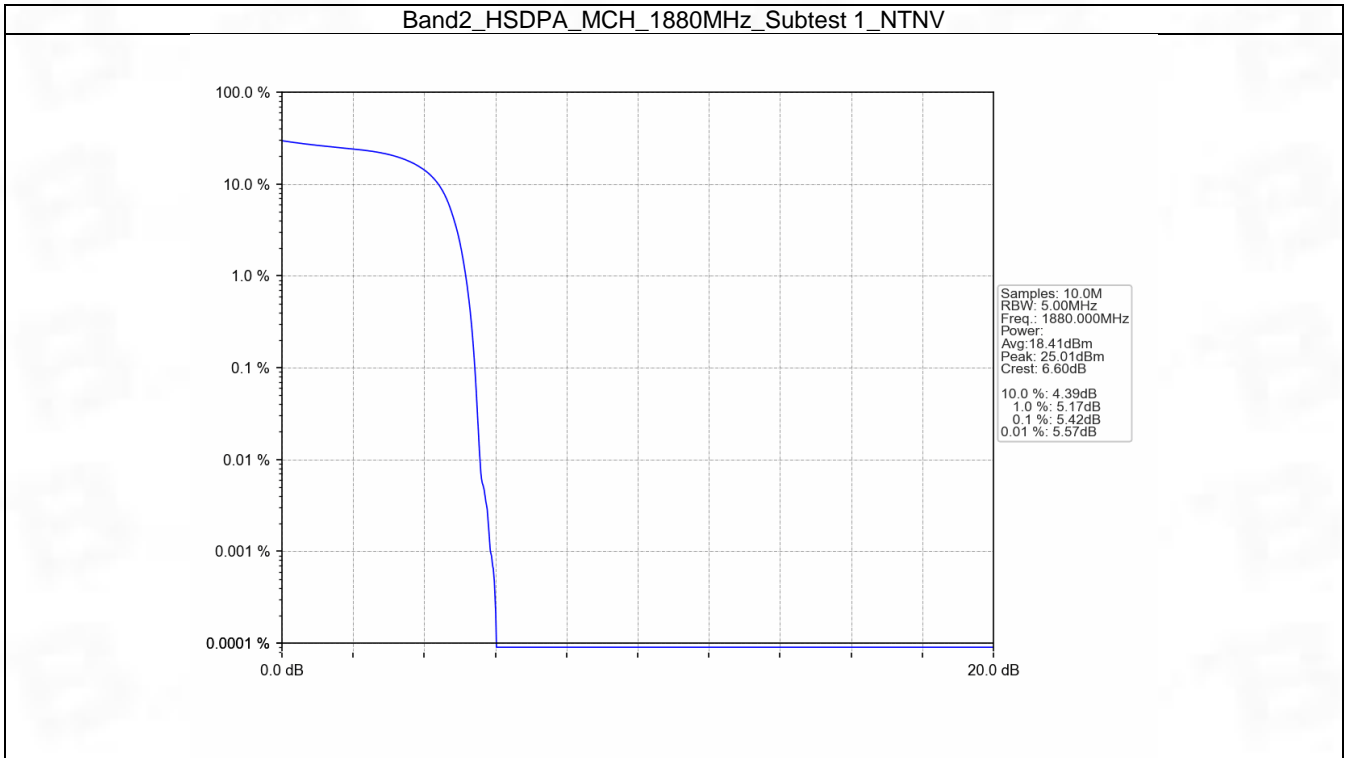
Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



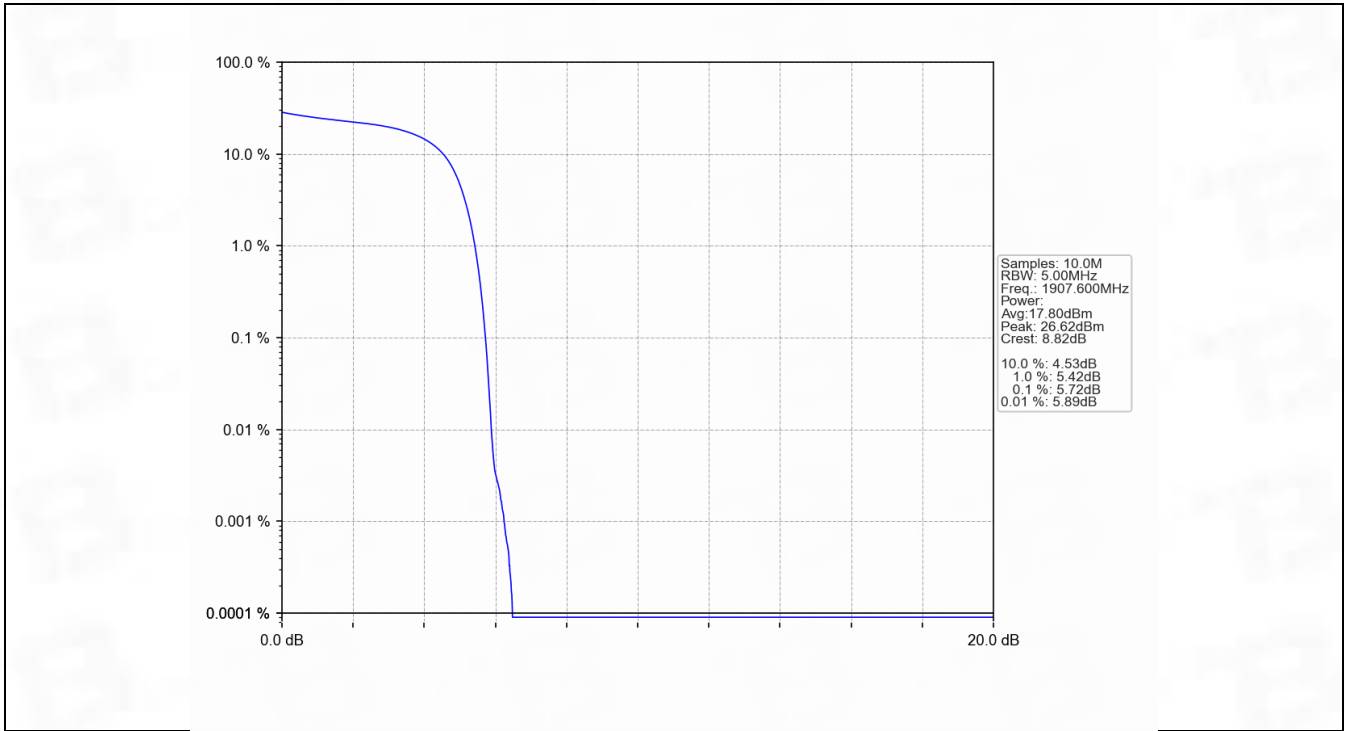
Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



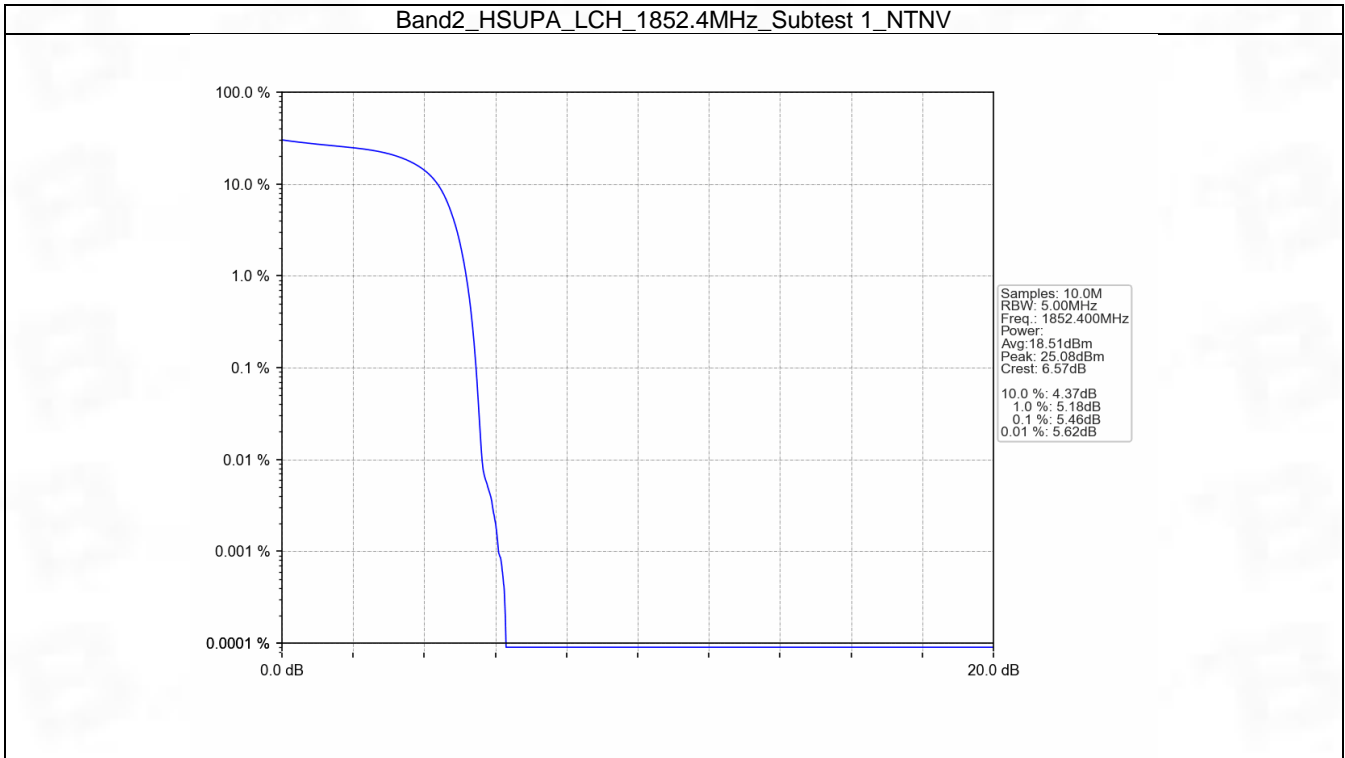
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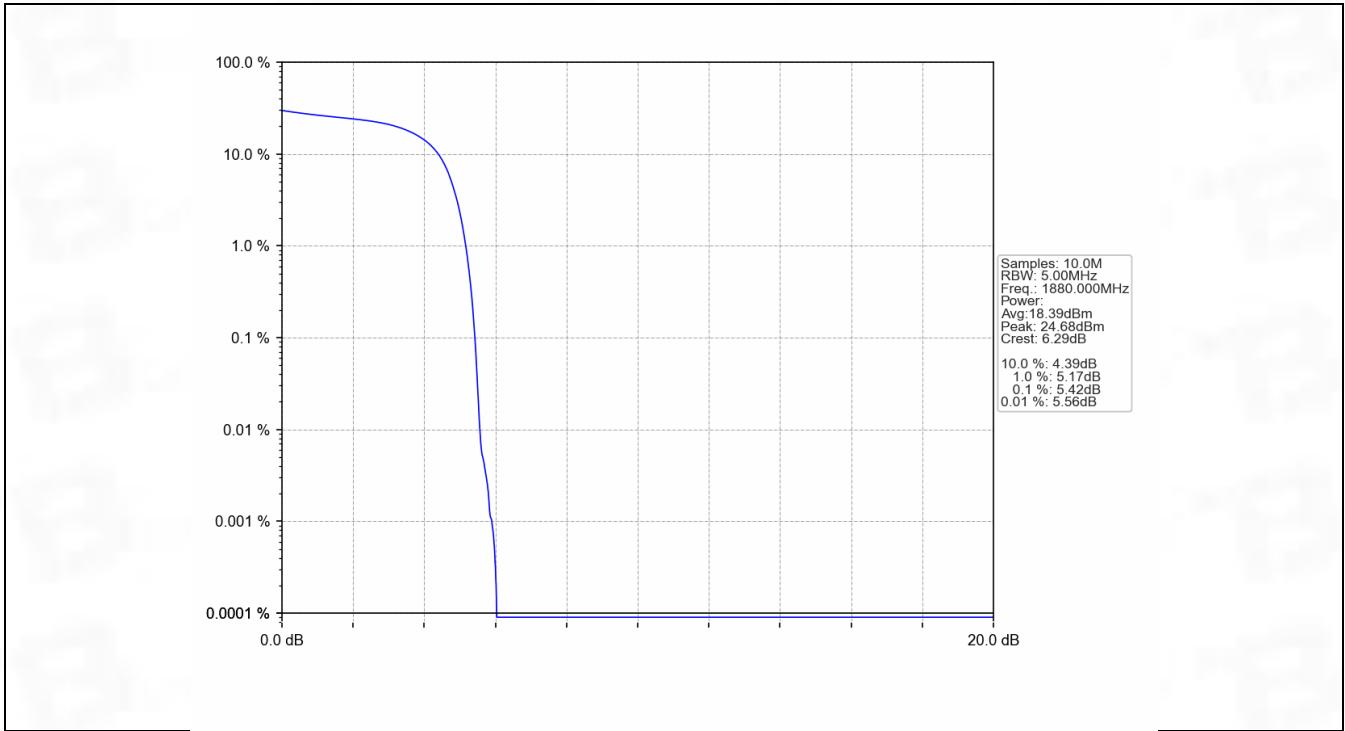
Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



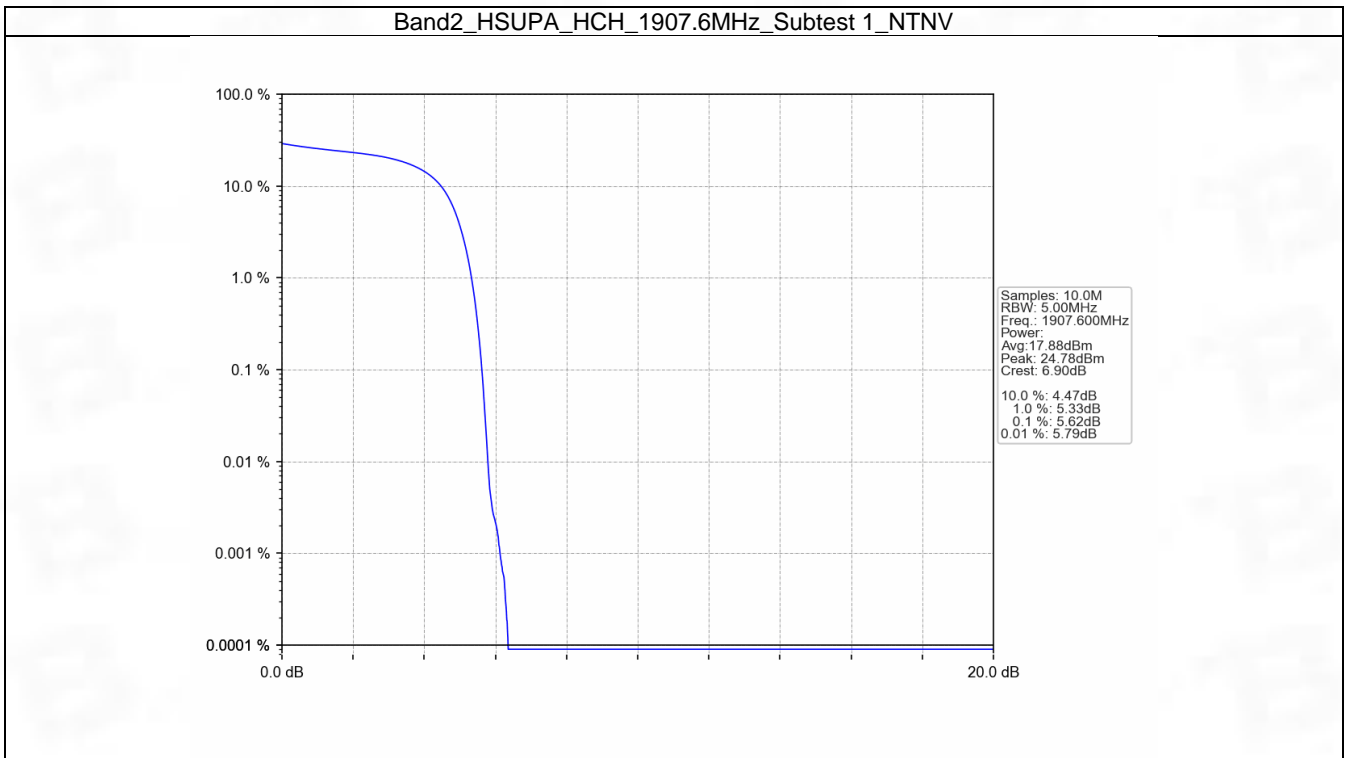
Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV



Band2_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



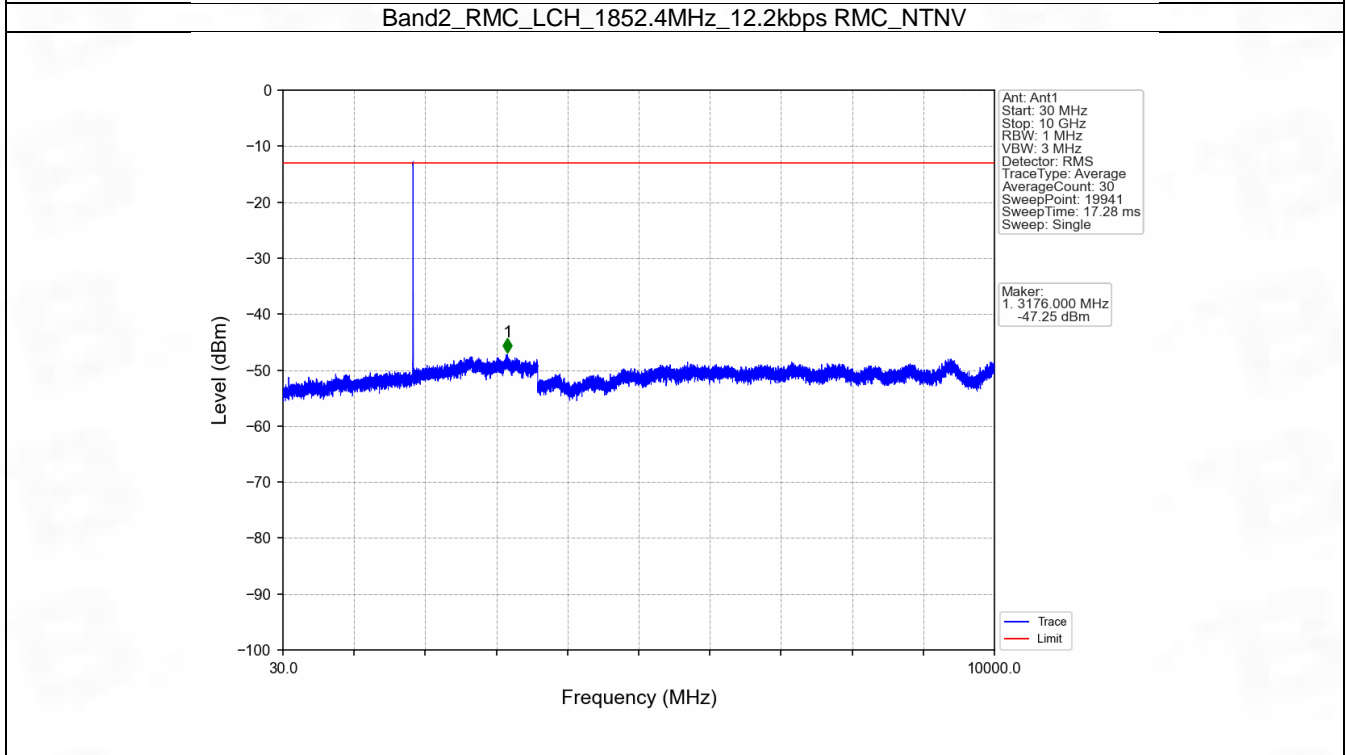
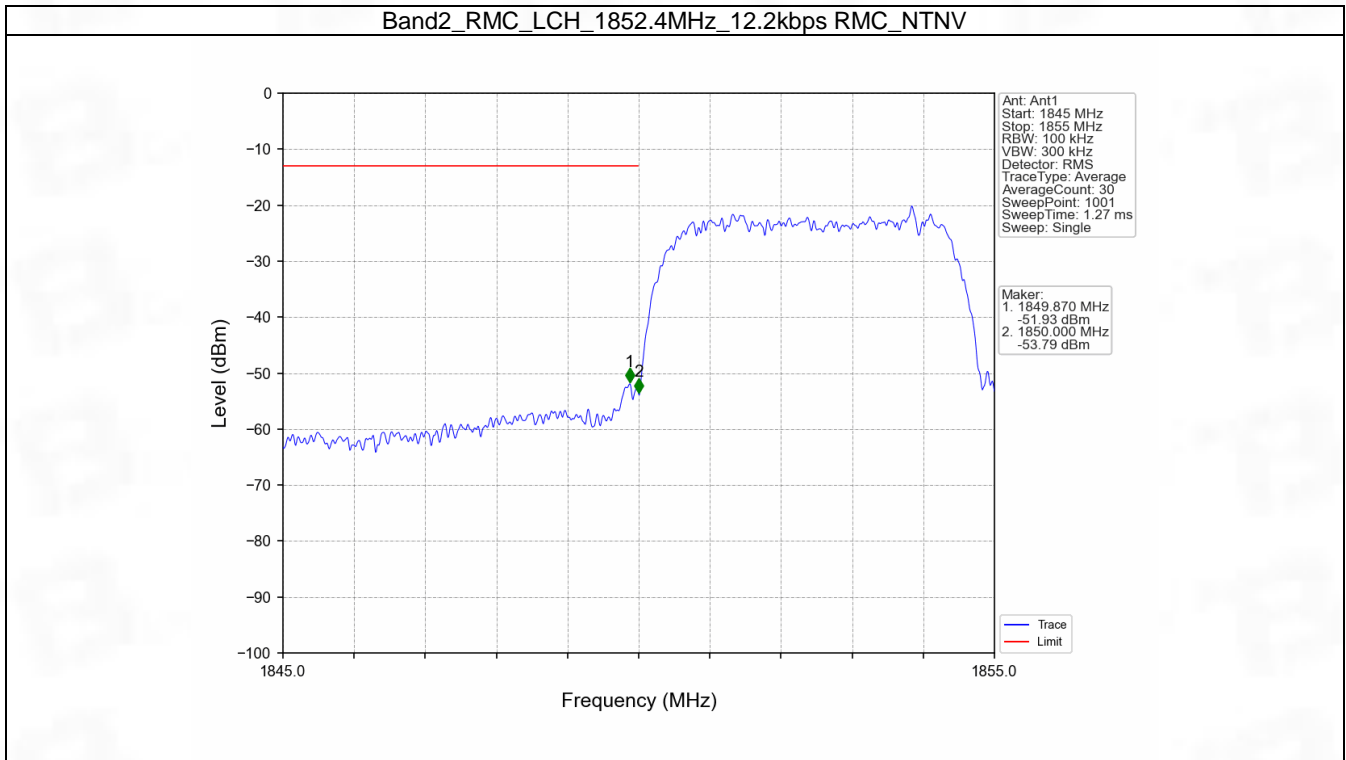
6. Spurious Emission

6.1 Band2

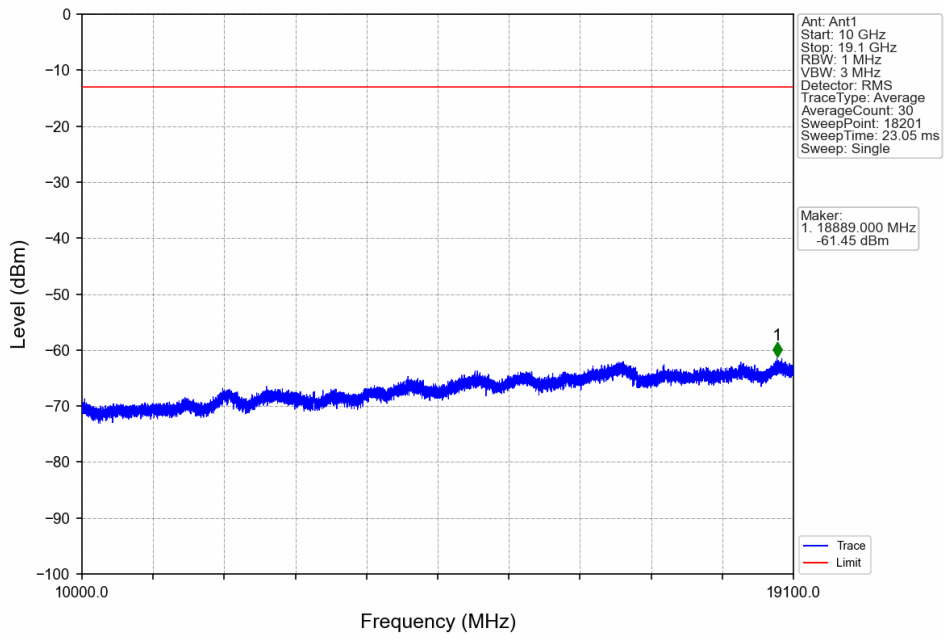
6.1.1 Test Result

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

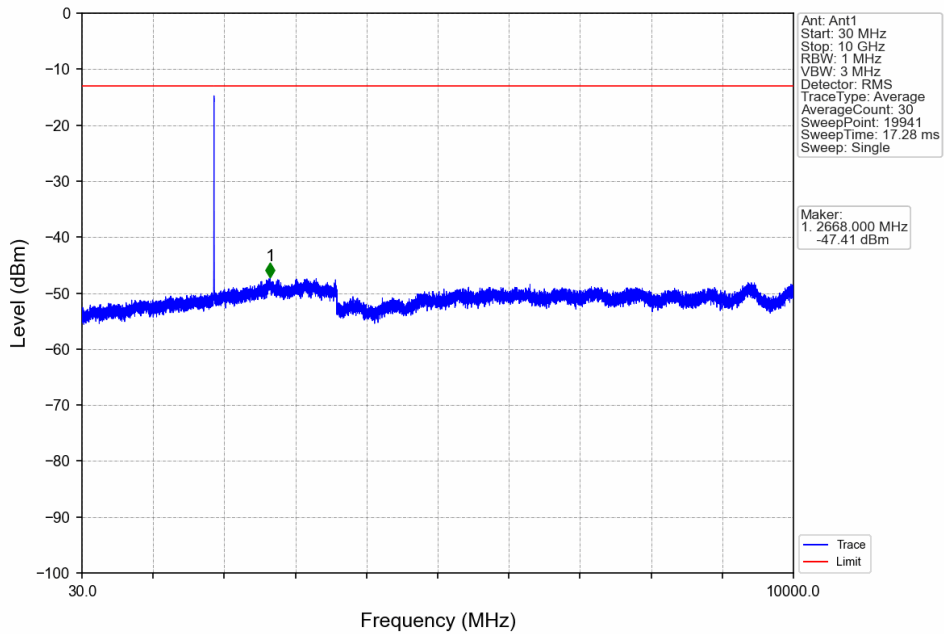
6.1.2 Test Graph



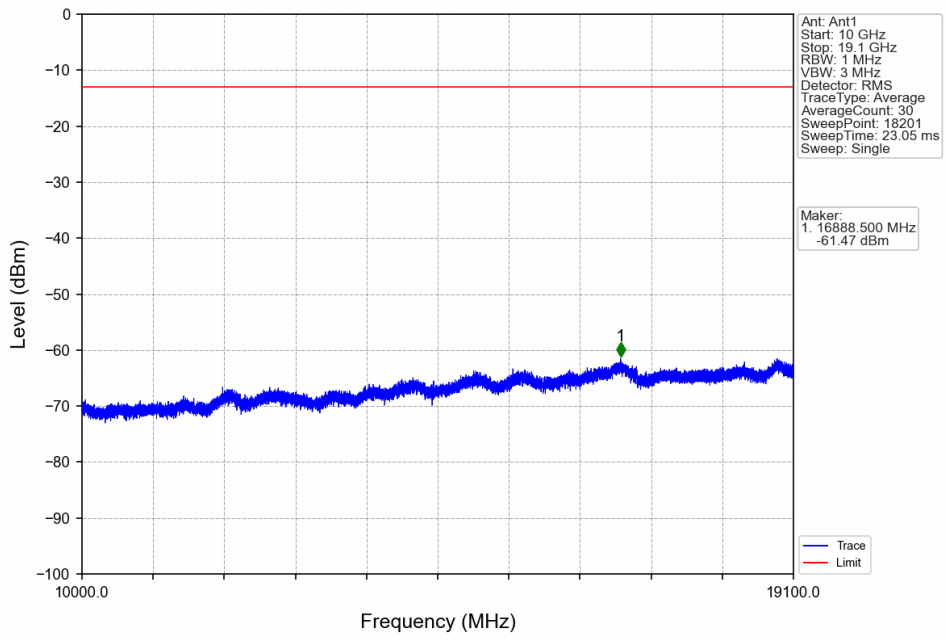
Band2_RMC_LCH_1852.4MHz_12.2kbps RMC_NTNV



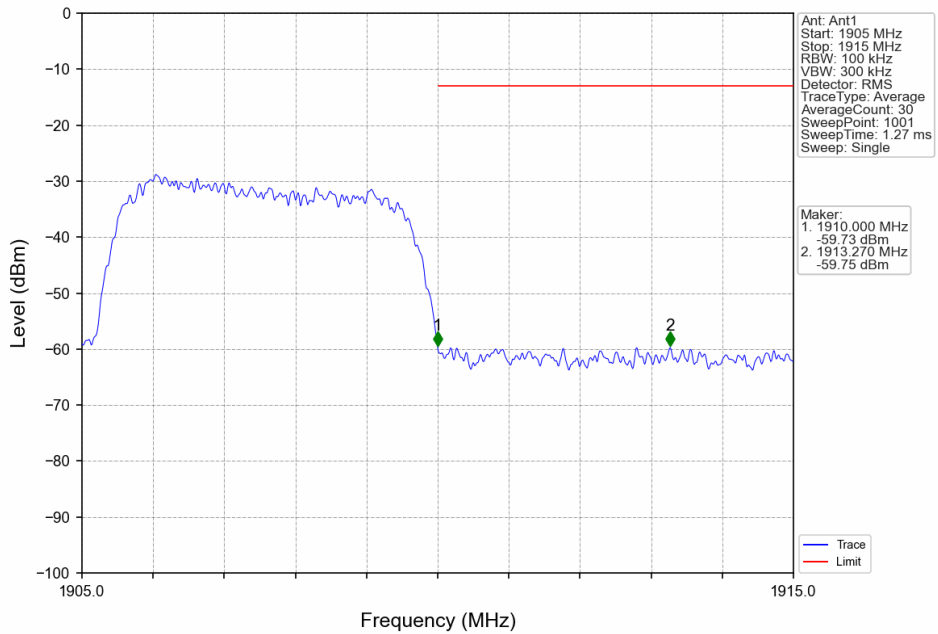
Band2_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



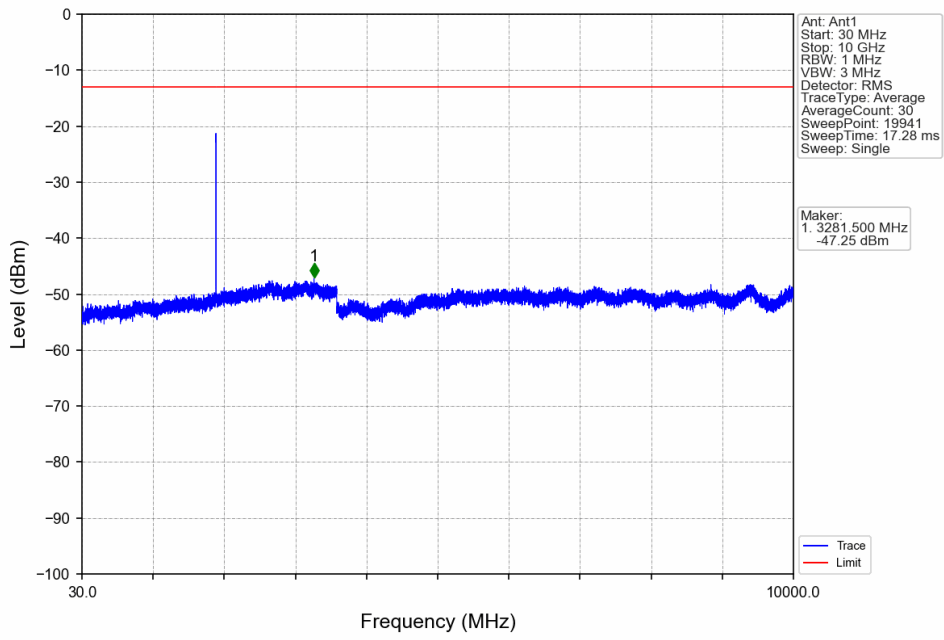
Band2_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



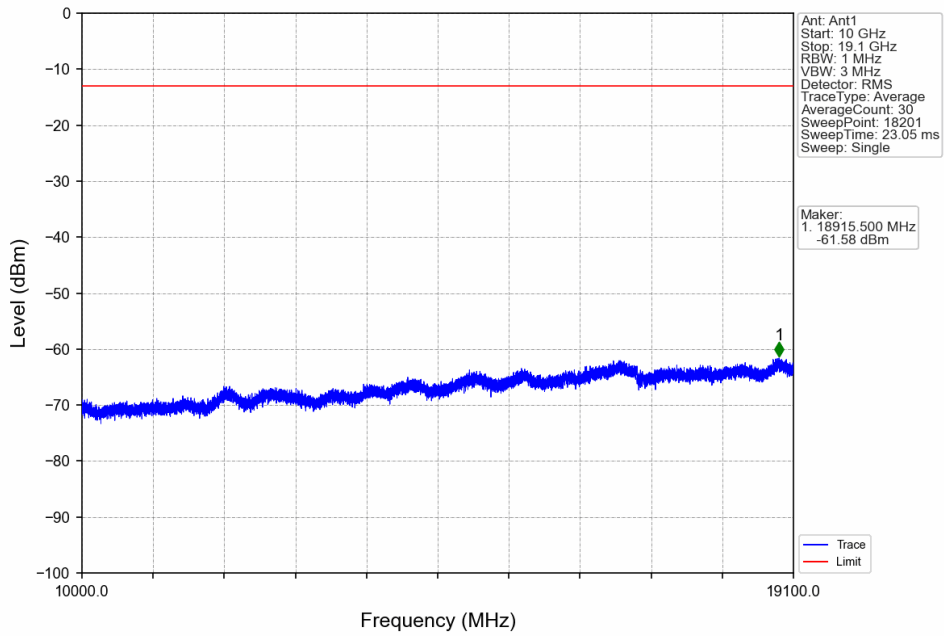
Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



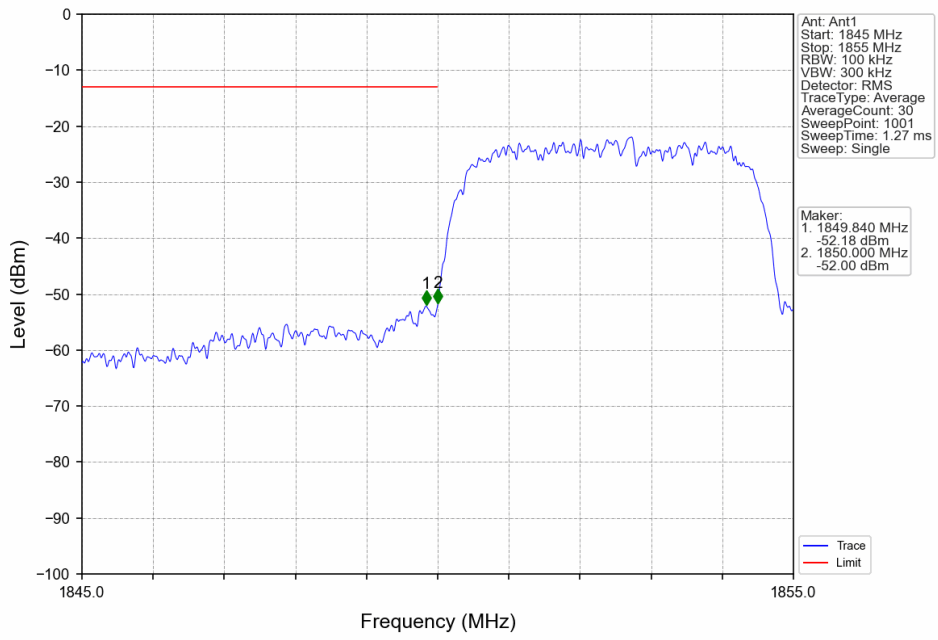
Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



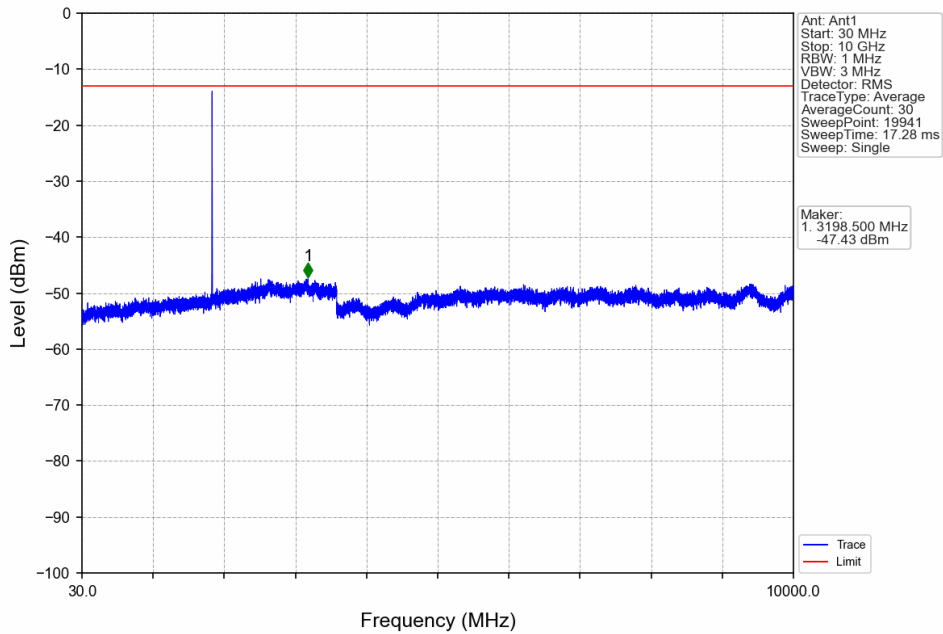
Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



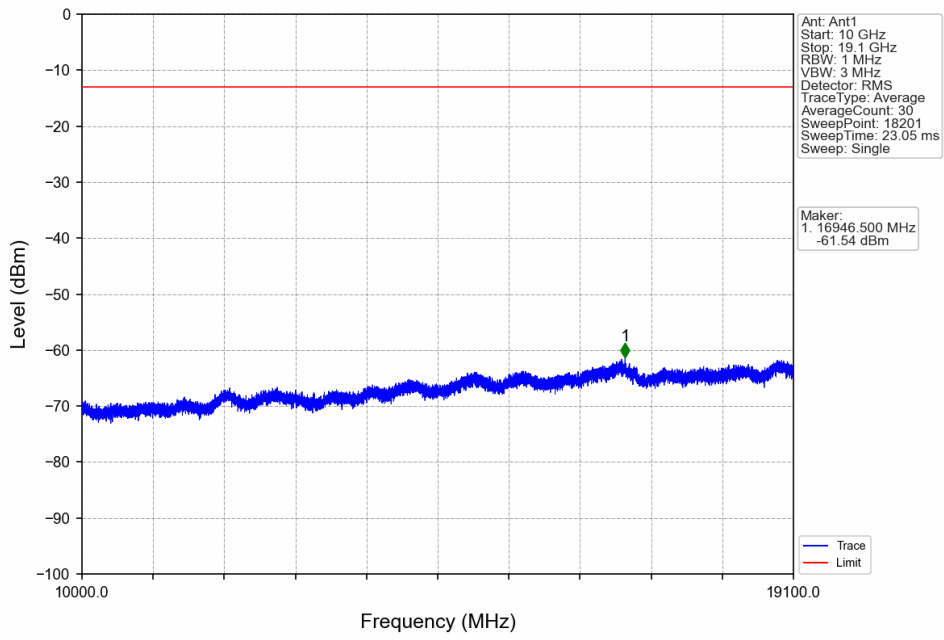
Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



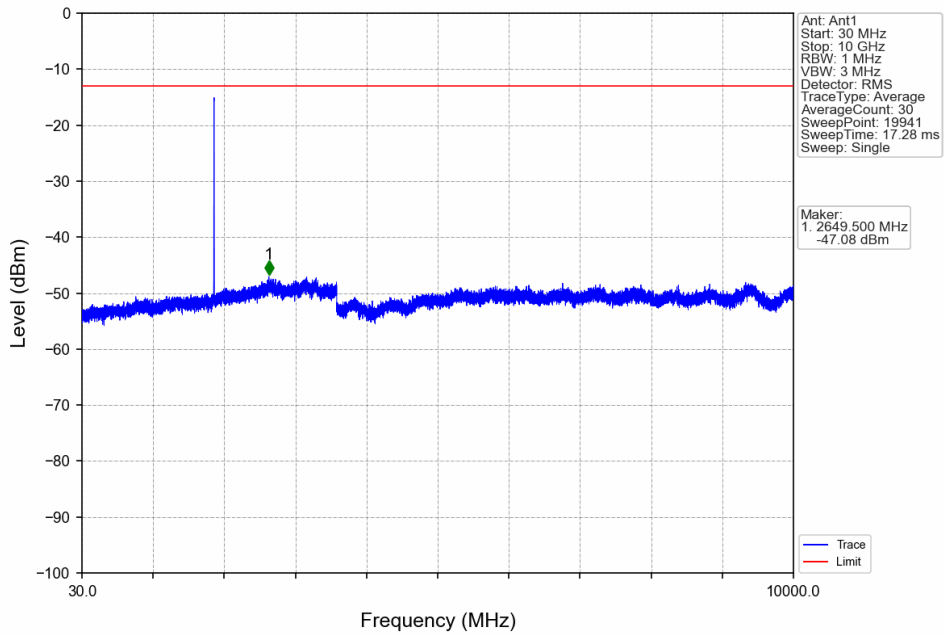
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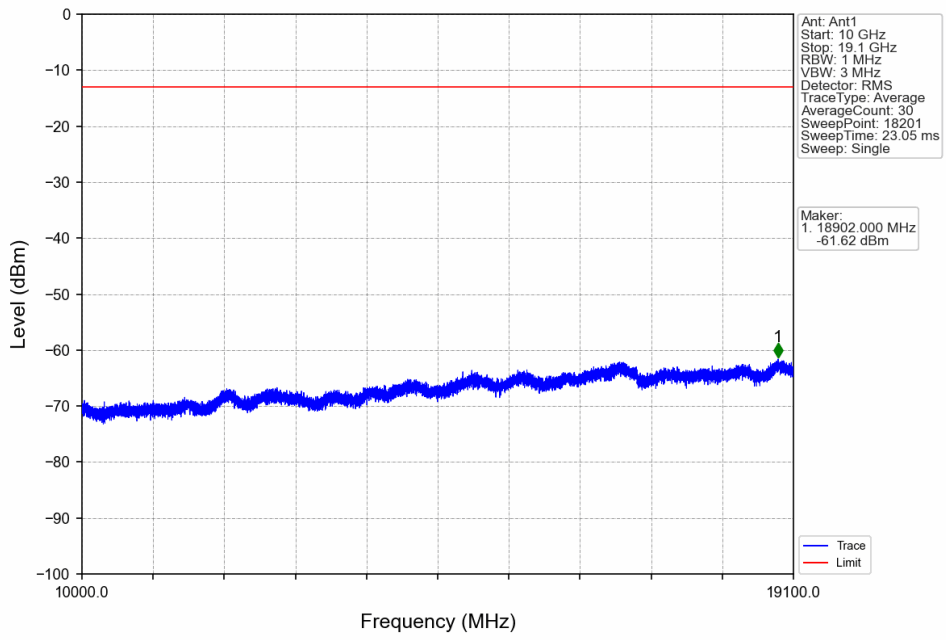
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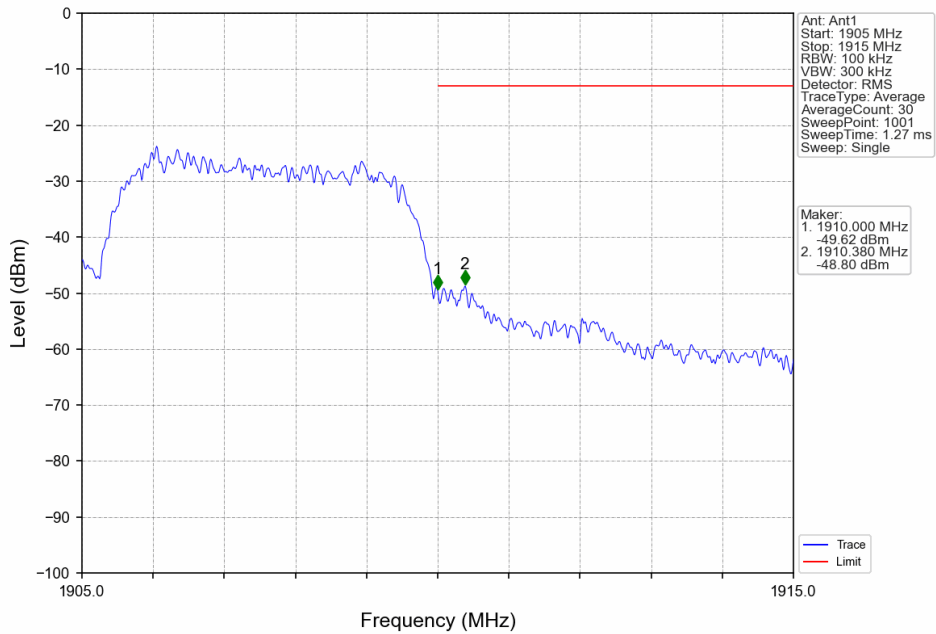
Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV



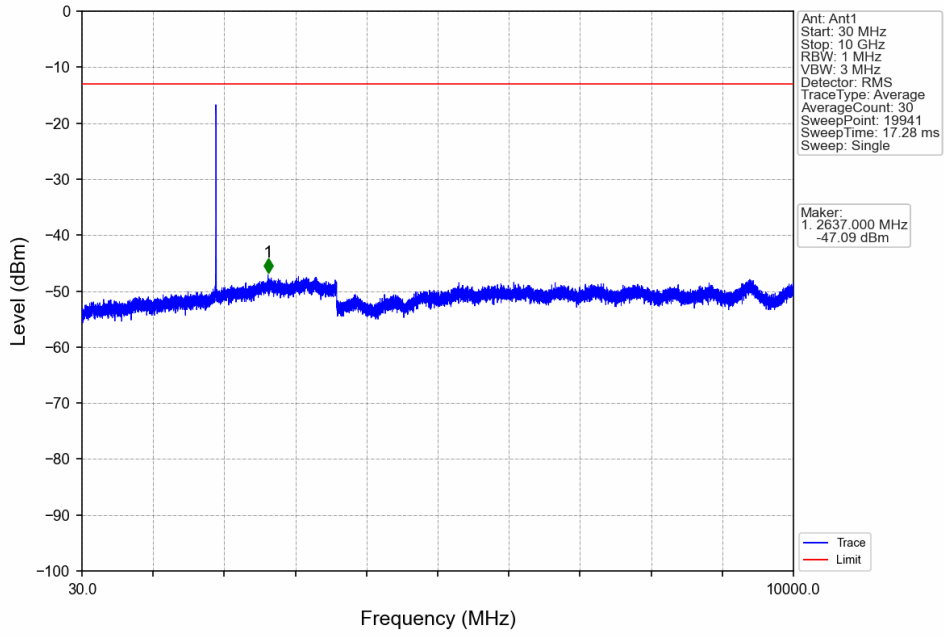
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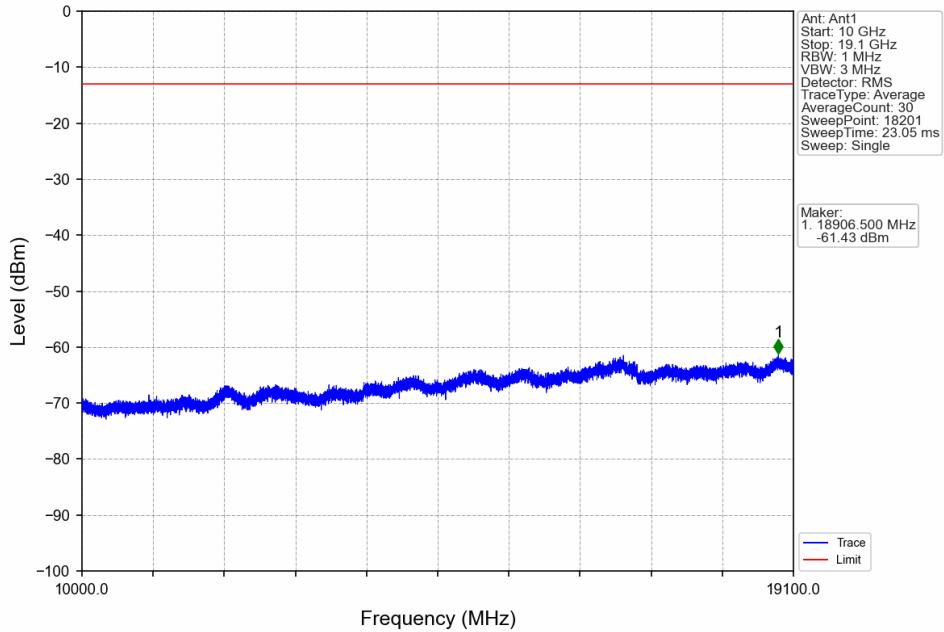
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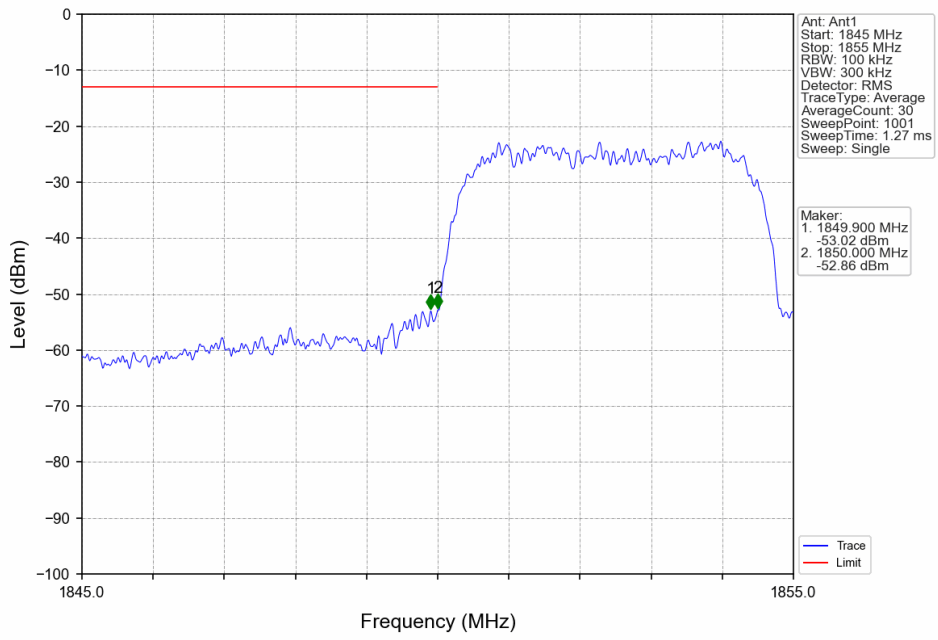
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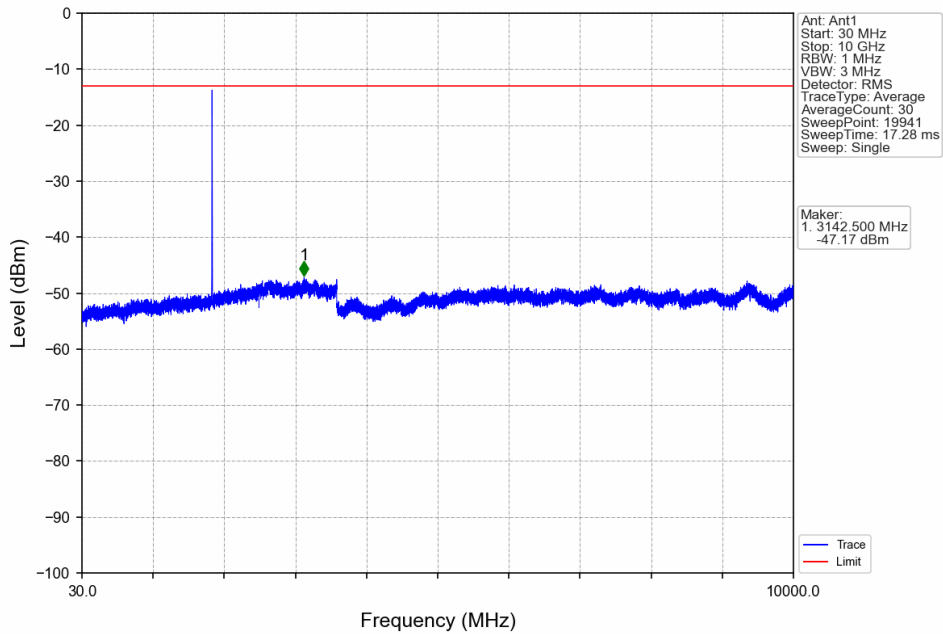
Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



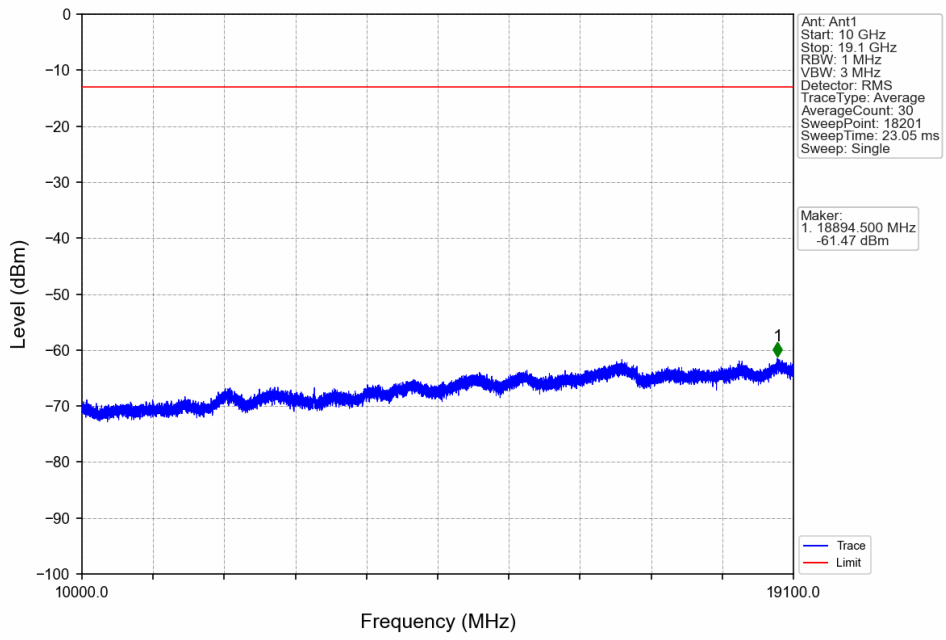
Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



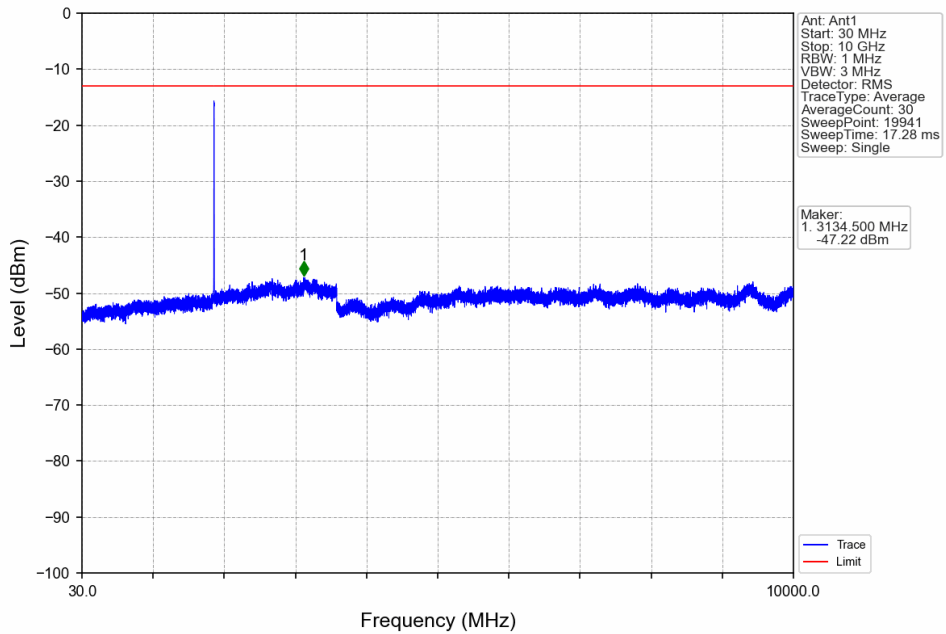
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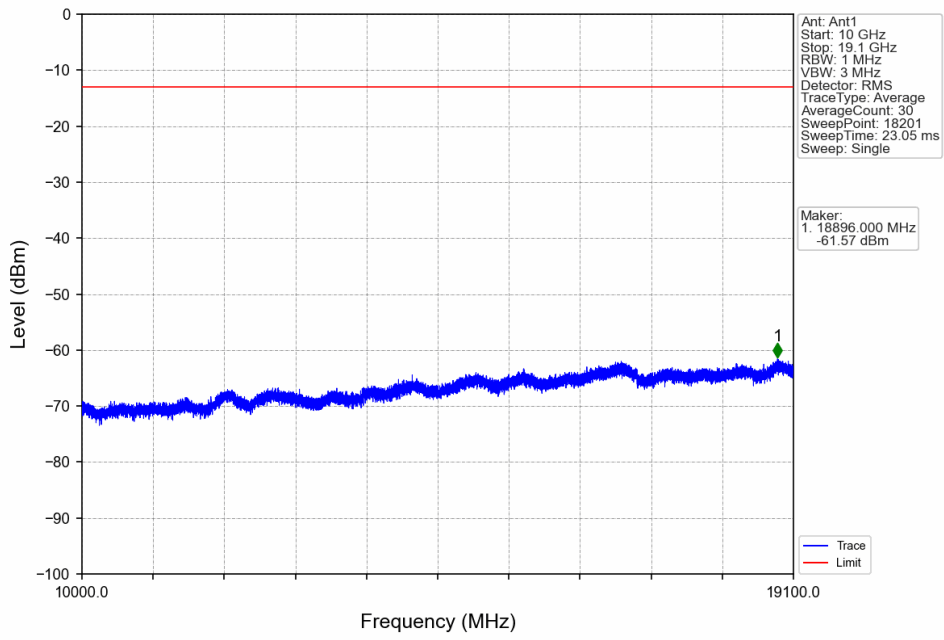
Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



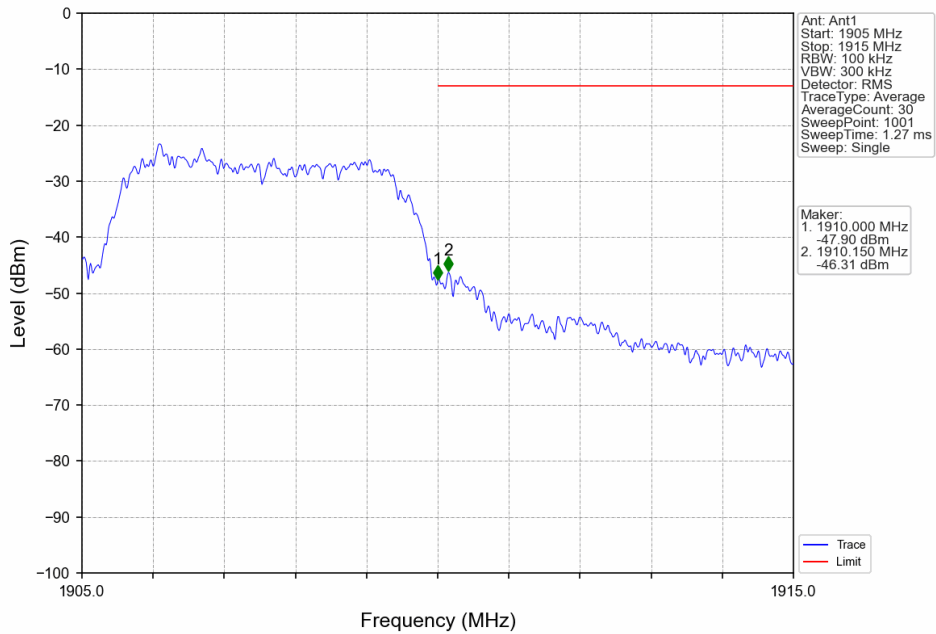
Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV



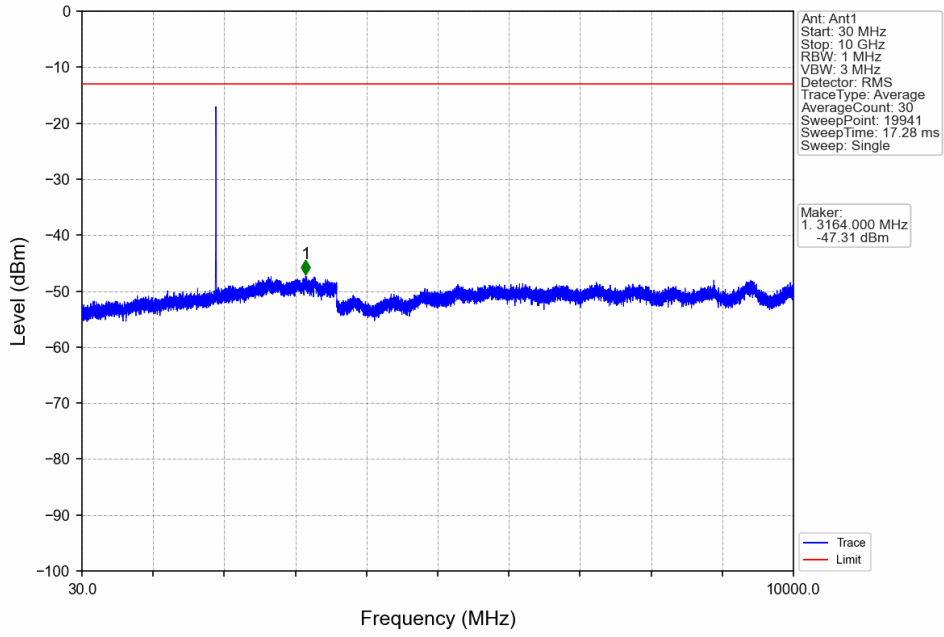
Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV



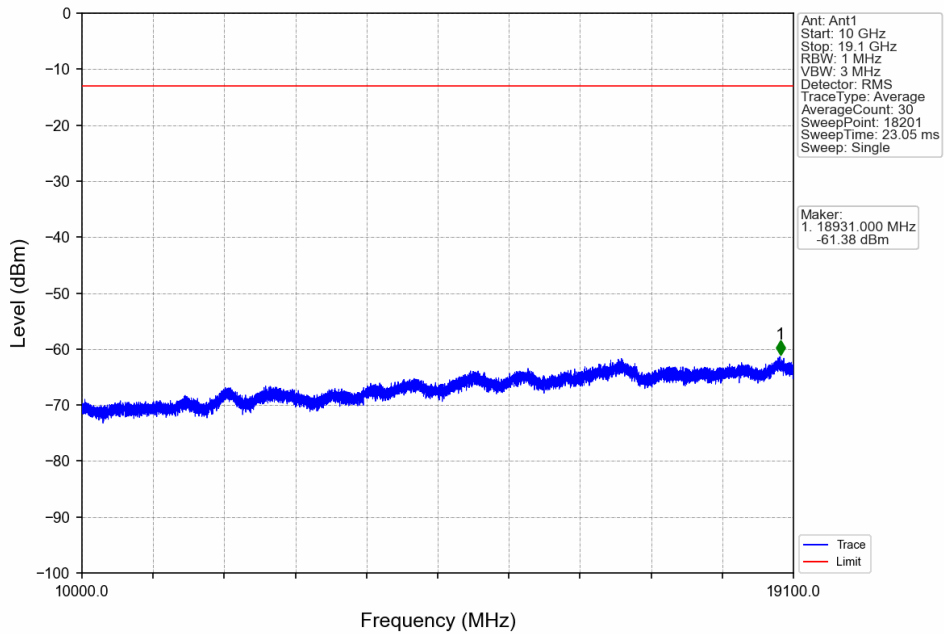
Band2_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



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	0.1334	0.0061	ppm	5M13F9W	24E	21.25

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	0.0875	0.0061	ppm	5M13F9W	24E	19.42