



**SGS-CSTC Standards Technical Services Co., Ltd.**  
**Shenzhen Branch**

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# Appendix B.3

## WCDMA Band II



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## 1. Effective (Isotropic) Radiated Power Output Data

### 1.1 Band II\_EIRP

#### 1.1.1 Test Result\_Ant1

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	24.05	0.10	24.15	<=33.01	Pass
			1880	24.20	0.10	24.30	<=33.01	Pass
			1907.6	24.75	0.10	24.85	<=33.01	Pass
	HSDPA	Subtest 1	1852.4	21.89	0.10	21.99	<=33.01	Pass
		Subtest 2	1852.4	21.90	0.10	22.00	<=33.01	Pass
		Subtest 3	1852.4	21.93	0.10	22.03	<=33.01	Pass
		Subtest 4	1852.4	21.93	0.10	22.03	<=33.01	Pass
		Subtest 1	1880	21.99	0.10	22.09	<=33.01	Pass
		Subtest 2	1880	21.99	0.10	22.09	<=33.01	Pass
		Subtest 3	1880	22.00	0.10	22.10	<=33.01	Pass
		Subtest 4	1880	22.00	0.10	22.10	<=33.01	Pass
		Subtest 1	1907.6	22.33	0.10	22.43	<=33.01	Pass
		Subtest 2	1907.6	22.34	0.10	22.44	<=33.01	Pass
		Subtest 3	1907.6	22.35	0.10	22.45	<=33.01	Pass
		Subtest 4	1907.6	22.35	0.10	22.45	<=33.01	Pass
	HSUPA	Subtest 1	1852.4	20.02	0.10	20.12	<=33.01	Pass
		Subtest 2	1852.4	20.01	0.10	20.11	<=33.01	Pass
		Subtest 3	1852.4	20.31	0.10	20.41	<=33.01	Pass
		Subtest 4	1852.4	20.02	0.10	20.12	<=33.01	Pass
		Subtest 5	1852.4	20.29	0.10	20.39	<=33.01	Pass
		Subtest 1	1880	20.52	0.10	20.62	<=33.01	Pass
		Subtest 2	1880	20.07	0.10	20.17	<=33.01	Pass
		Subtest 3	1880	20.04	0.10	20.14	<=33.01	Pass
		Subtest 4	1880	20.52	0.10	20.62	<=33.01	Pass
		Subtest 5	1880	20.54	0.10	20.64	<=33.01	Pass
		Subtest 1	1907.6	20.73	0.10	20.83	<=33.01	Pass
		Subtest 2	1907.6	20.45	0.10	20.55	<=33.01	Pass
		Subtest 3	1907.6	20.72	0.10	20.82	<=33.01	Pass
		Subtest 4	1907.6	20.46	0.10	20.56	<=33.01	Pass
		Subtest 5	1907.6	20.95	0.10	21.05	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain



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## 2. Frequency Stability

### 2.1 Band II

#### 2.1.1 Test Result

Band II							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1852.4	20	3.6	-22.488	-0.0121	/	Pass
			3.84	-24.819	-0.0134	/	Pass
			4.3	-26.479	-0.0143	/	Pass
		-30	3.84	-25.370	-0.0137	/	Pass
		-20	3.84	-24.827	-0.0134	/	Pass
		-10	3.84	-22.695	-0.0123	/	Pass
		0	3.84	-27.537	-0.0149	/	Pass
		10	3.84	-23.525	-0.0127	/	Pass
		30	3.84	-23.382	-0.0126	/	Pass
		40	3.84	-24.040	-0.0130	/	Pass
		50	3.84	-23.046	-0.0124	/	Pass
	1880	20	3.6	-25.785	-0.0137	/	Pass
			3.84	-18.332	-0.0098	/	Pass
			4.3	-15.657	-0.0083	/	Pass
		-30	3.84	-18.661	-0.0099	/	Pass
		-20	3.84	-20.828	-0.0111	/	Pass
		-10	3.84	-18.961	-0.0101	/	Pass
		0	3.84	-17.023	-0.0091	/	Pass
		10	3.84	-14.942	-0.0079	/	Pass
		30	3.84	-17.738	-0.0094	/	Pass
		40	3.84	-17.996	-0.0096	/	Pass
		50	3.84	-17.252	-0.0092	/	Pass
	1907.6	20	3.6	-14.963	-0.0078	/	Pass
			3.84	-20.278	-0.0106	/	Pass
			4.3	-19.069	-0.0100	/	Pass
		-30	3.84	-15.786	-0.0083	/	Pass
		-20	3.84	-17.531	-0.0092	/	Pass
		-10	3.84	-19.419	-0.0102	/	Pass
		0	3.84	-18.153	-0.0095	/	Pass
		10	3.84	-14.877	-0.0078	/	Pass
		30	3.84	-15.492	-0.0081	/	Pass
		40	3.84	-17.846	-0.0094	/	Pass
		50	3.84	-15.478	-0.0081	/	Pass
HSDPA	1852.4	20	3.6	-19.097	-0.0103	/	Pass
			3.84	-20.664	-0.0112	/	Pass
			4.3	-17.824	-0.0096	/	Pass
		-30	3.84	-17.917	-0.0097	/	Pass
		-20	3.84	-16.015	-0.0086	/	Pass
		-10	3.84	-16.415	-0.0089	/	Pass



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		0	3.84	-15.821	-0.0085	/	Pass
		10	3.84	-15.864	-0.0086	/	Pass
		30	3.84	-15.607	-0.0084	/	Pass
		40	3.84	-16.143	-0.0087	/	Pass
		50	3.84	-17.445	-0.0094	/	Pass
	1880	20	3.6	-16.522	-0.0088	/	Pass
			3.84	-12.288	-0.0065	/	Pass
			4.3	-12.968	-0.0069	/	Pass
		-30	3.84	-10.808	-0.0057	/	Pass
		-20	3.84	-12.016	-0.0064	/	Pass
		-10	3.84	-14.420	-0.0077	/	Pass
		0	3.84	-9.320	-0.0050	/	Pass
		10	3.84	-10.035	-0.0053	/	Pass
		30	3.84	-13.390	-0.0071	/	Pass
		40	3.84	-14.262	-0.0076	/	Pass
		50	3.84	-10.192	-0.0054	/	Pass
	1907.6	20	3.6	-17.767	-0.0093	/	Pass
			3.84	-17.667	-0.0093	/	Pass
			4.3	-18.590	-0.0097	/	Pass
		-30	3.84	-17.459	-0.0092	/	Pass
		-20	3.84	-16.372	-0.0086	/	Pass
		-10	3.84	-18.647	-0.0098	/	Pass
		0	3.84	-11.909	-0.0062	/	Pass
		10	3.84	-12.896	-0.0068	/	Pass
		30	3.84	-18.075	-0.0095	/	Pass
		40	3.84	-11.837	-0.0062	/	Pass
		50	3.84	-15.986	-0.0084	/	Pass
HSUPA	1852.4	20	3.6	-4.399	-0.0024	/	Pass
			3.84	-7.074	-0.0038	/	Pass
			4.3	-4.592	-0.0025	/	Pass
		-30	3.84	-6.201	-0.0033	/	Pass
		-20	3.84	-6.902	-0.0037	/	Pass
		-10	3.84	-7.174	-0.0039	/	Pass
		0	3.84	-4.449	-0.0024	/	Pass
		10	3.84	-10.886	-0.0059	/	Pass
		30	3.84	-12.524	-0.0068	/	Pass
		40	3.84	-9.592	-0.0052	/	Pass
		50	3.84	-14.334	-0.0077	/	Pass
	1880	20	3.6	-3.090	-0.0016	/	Pass
			3.84	-3.397	-0.0018	/	Pass
			4.3	-9.735	-0.0052	/	Pass
		-30	3.84	-11.280	-0.0060	/	Pass
		-20	3.84	-9.835	-0.0052	/	Pass
		-10	3.84	-8.826	-0.0047	/	Pass
		0	3.84	-10.715	-0.0057	/	Pass
		10	3.84	-12.038	-0.0064	/	Pass
		30	3.84	-9.162	-0.0049	/	Pass
		40	3.84	-7.274	-0.0039	/	Pass
		50	3.84	-8.247	-0.0044	/	Pass



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	1907.6	20	3.6	-11.752	-0.0062	/	Pass
			3.84	-13.504	-0.0071	/	Pass
			4.3	-11.280	-0.0059	/	Pass
		-30	3.84	-12.066	-0.0063	/	Pass
		-20	3.84	-9.942	-0.0052	/	Pass
		-10	3.84	-5.665	-0.0030	/	Pass
		0	3.84	4.270	0.0022	/	Pass
		10	3.84	1.173	0.0006	/	Pass
		30	3.84	-1.545	-0.0008	/	Pass
		40	3.84	-3.755	-0.0020	/	Pass
50	3.84	-10.614	-0.0056	/	Pass		



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## 3. 99% & 26dB Bandwidth

### 3.1 Band II\_OBW

#### 3.1.1 Test Result

Band II						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	4.186	/	Pass
			1880	4.198	/	Pass
			1907.6	4.187	/	Pass
	HSDPA	Subtest 1	1852.4	4.190	/	Pass
			1880	4.196	/	Pass
			1907.6	4.213	/	Pass
	HSUPA	Subtest 1	1852.4	4.189	/	Pass
			1880	4.215	/	Pass
			1907.6	4.224	/	Pass



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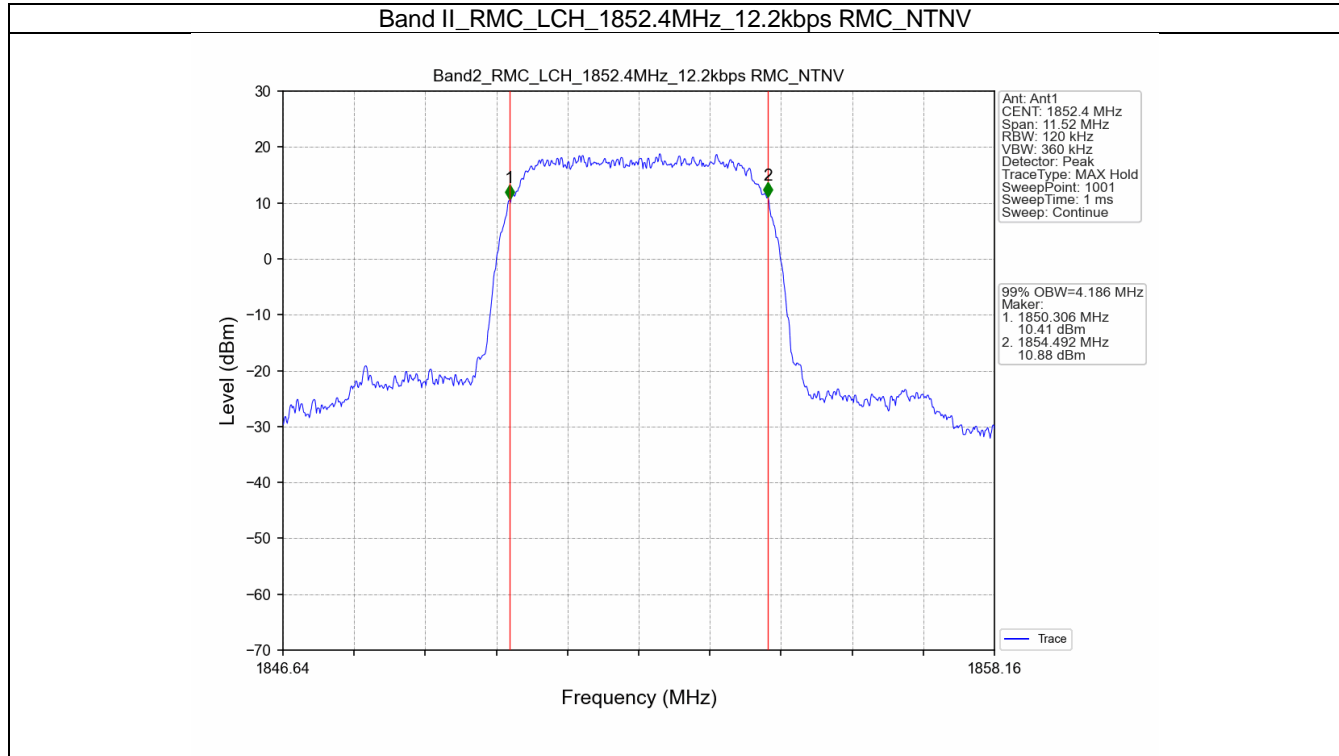
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## 3.1.2 Test Graph



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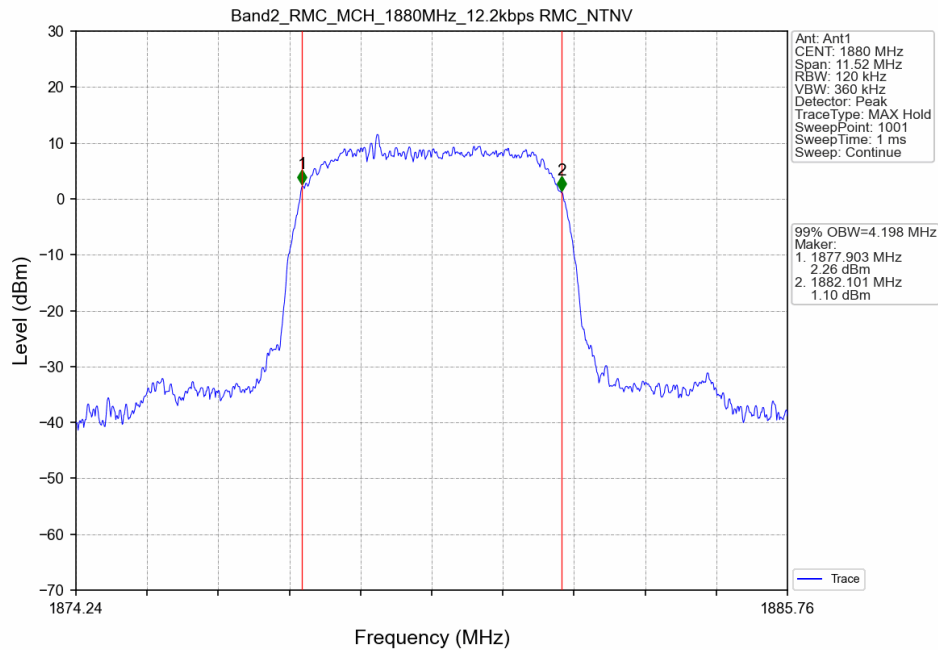
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Band II\_RMC\_MCH\_1880MHz\_12.2kbps RMC\_NTNV



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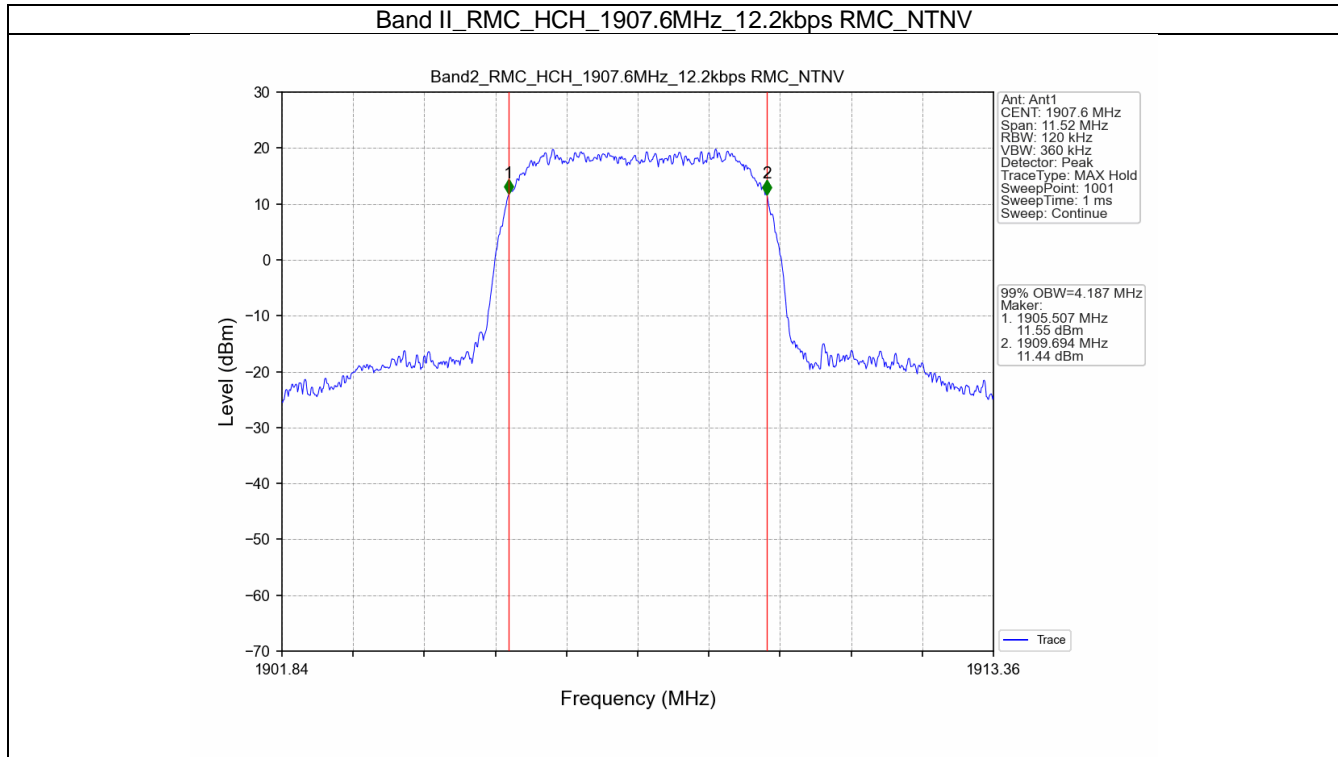


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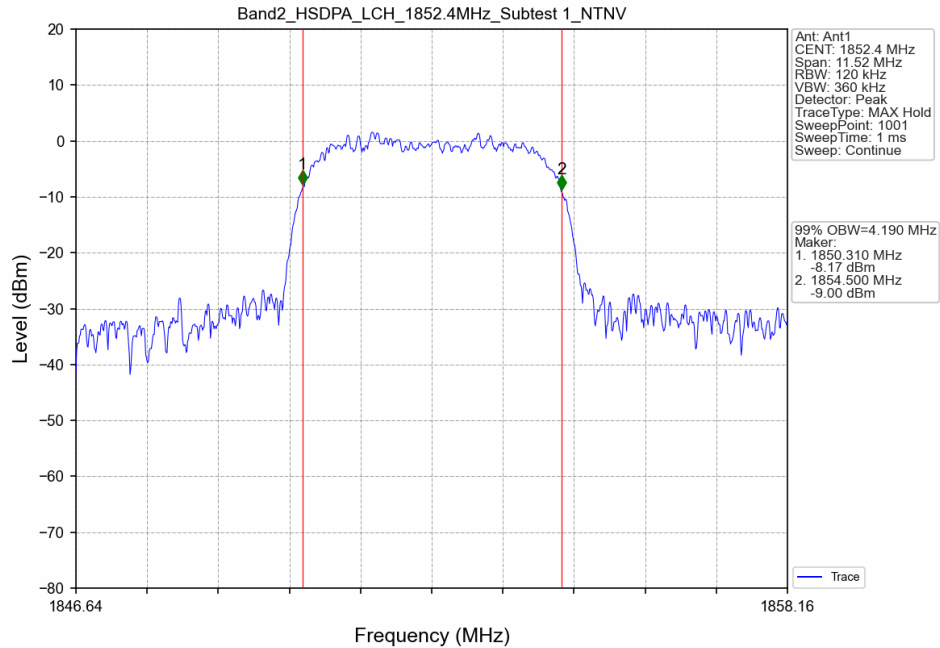
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Band II\_HSDPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



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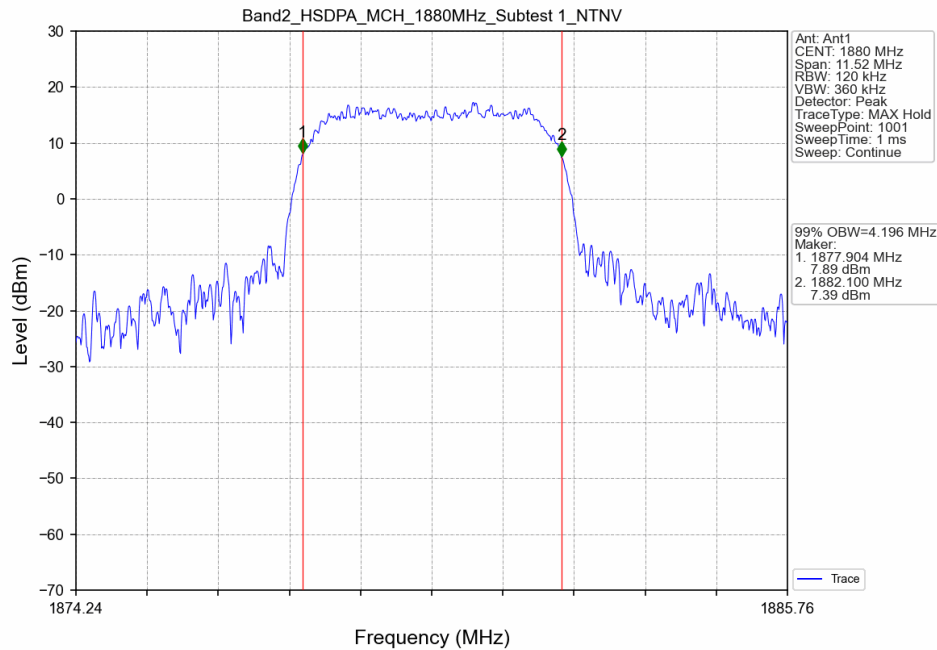
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Band II\_HSDPA\_MCH\_1880MHz\_Subtest 1\_NTNV



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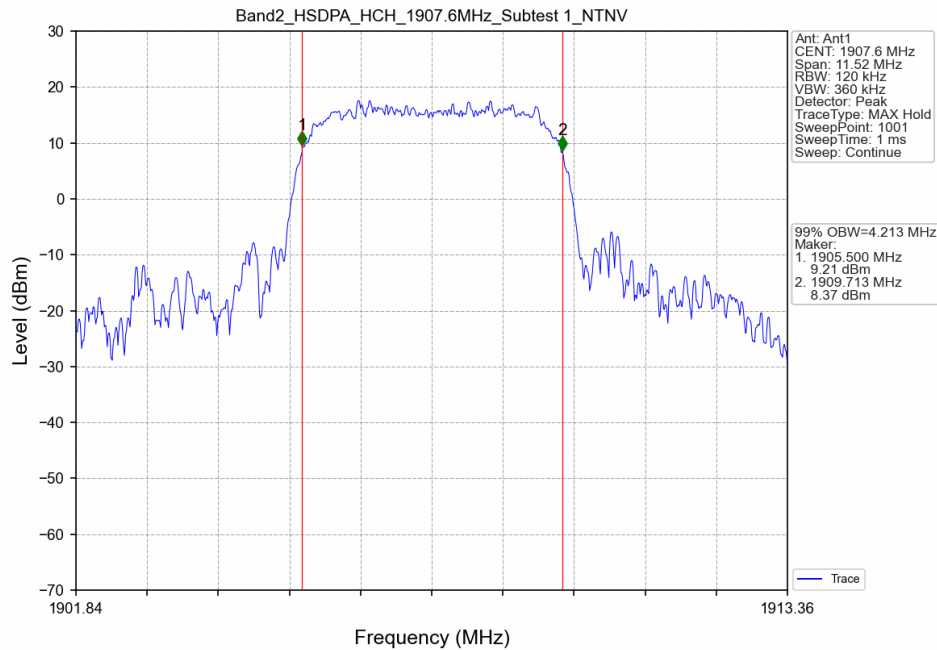
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## Band II\_HSDPA\_HCH\_1907.6MHz\_Subtest 1\_NTNV



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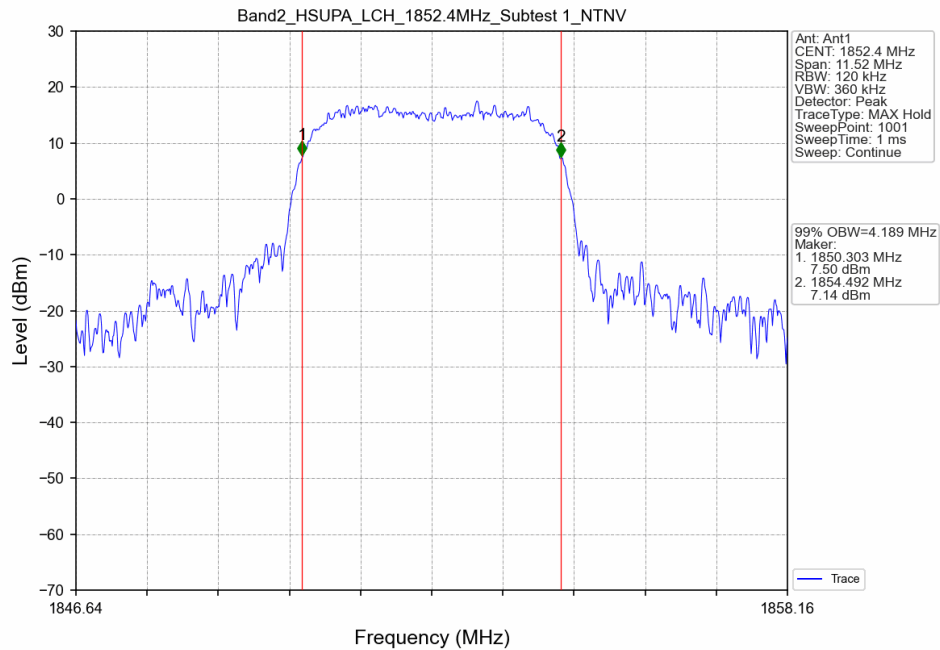
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## Band II\_HSUPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



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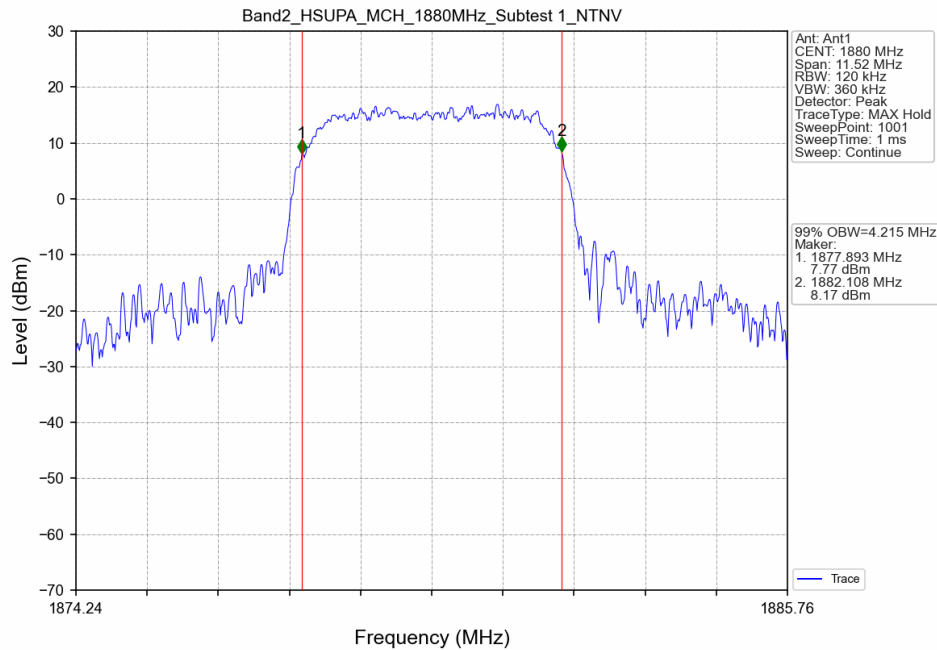
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Band II\_HSUPA\_MCH\_1880MHz\_Subtest 1\_NTNV



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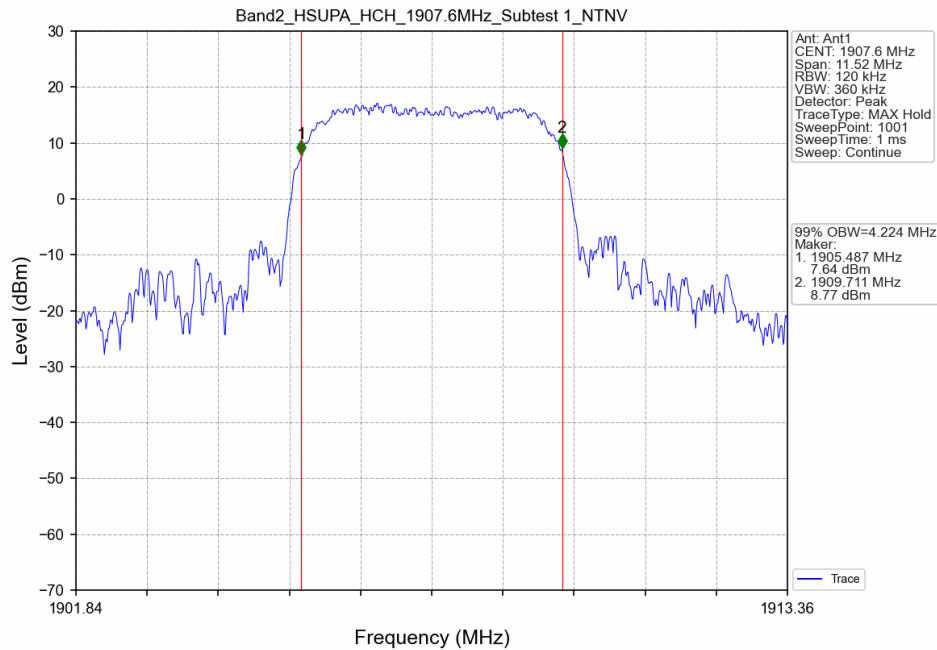
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## 3.2 Band II\_XDB

### 3.2.1 Test Result

Band II						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	4.762	/	Pass
			1880	4.717	/	Pass
			1907.6	4.766	/	Pass
	HSDPA	Subtest 1	1852.4	4.757	/	Pass
			1880	5.250	/	Pass
			1907.6	5.945	/	Pass
	HSUPA	Subtest 1	1852.4	5.204	/	Pass
			1880	5.043	/	Pass
			1907.6	5.782	/	Pass



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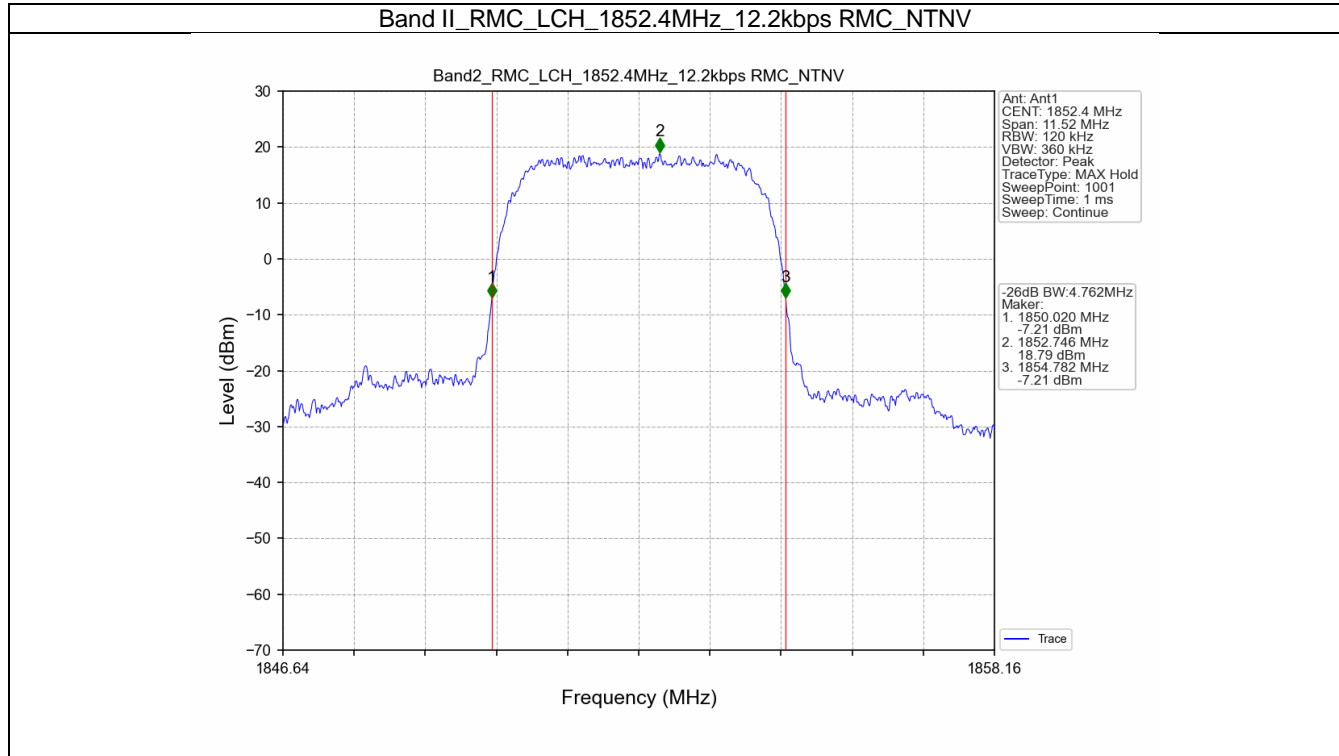
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## 3.2.2 Test Graph



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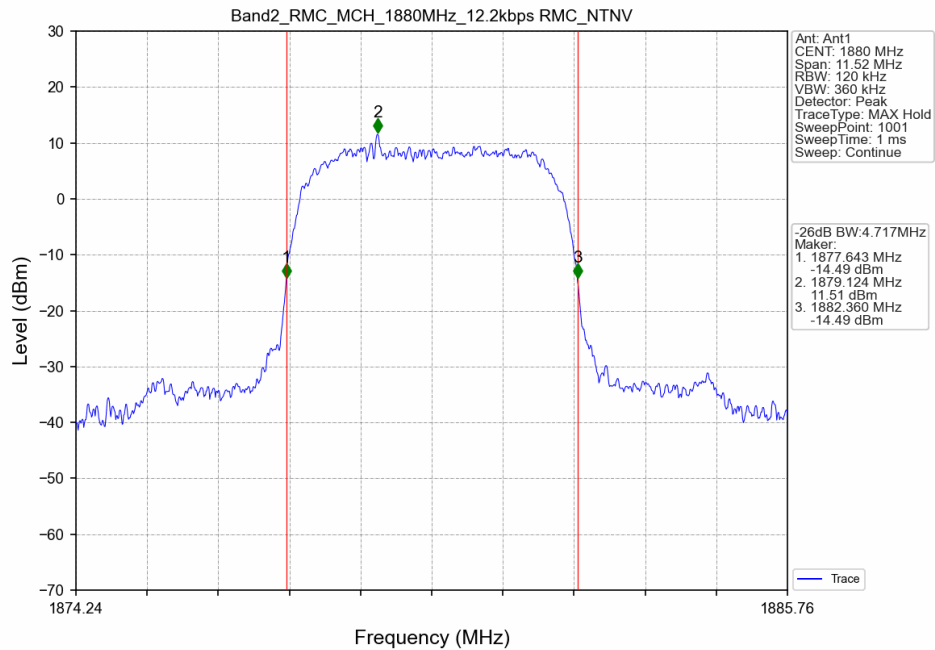
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Band II\_RMC\_MCH\_1880MHz\_12.2kbps RMC\_NTNV



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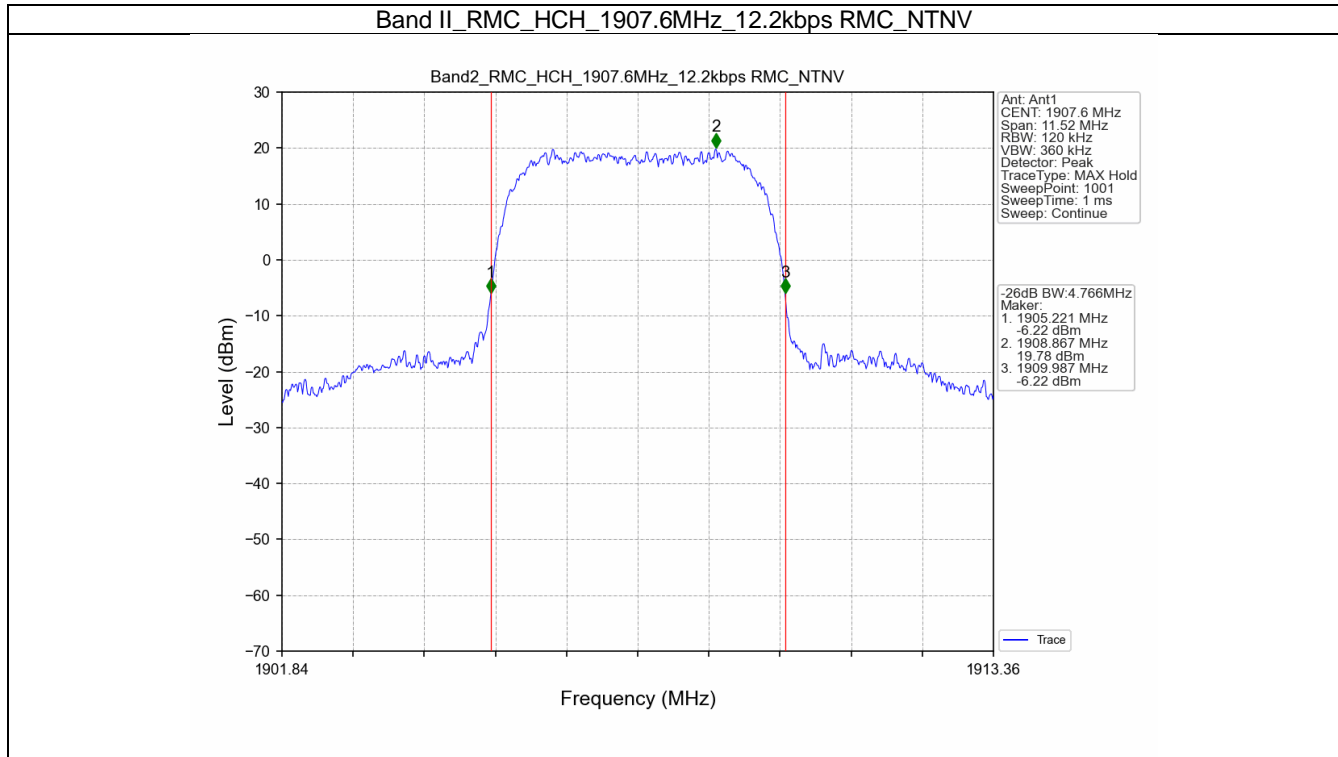


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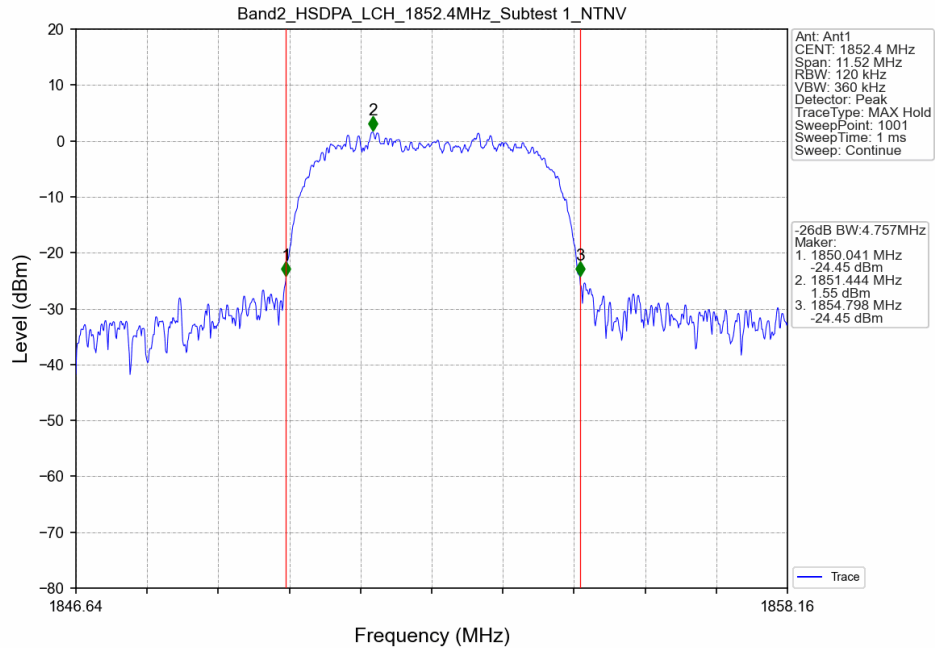
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## Band II\_HSDPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



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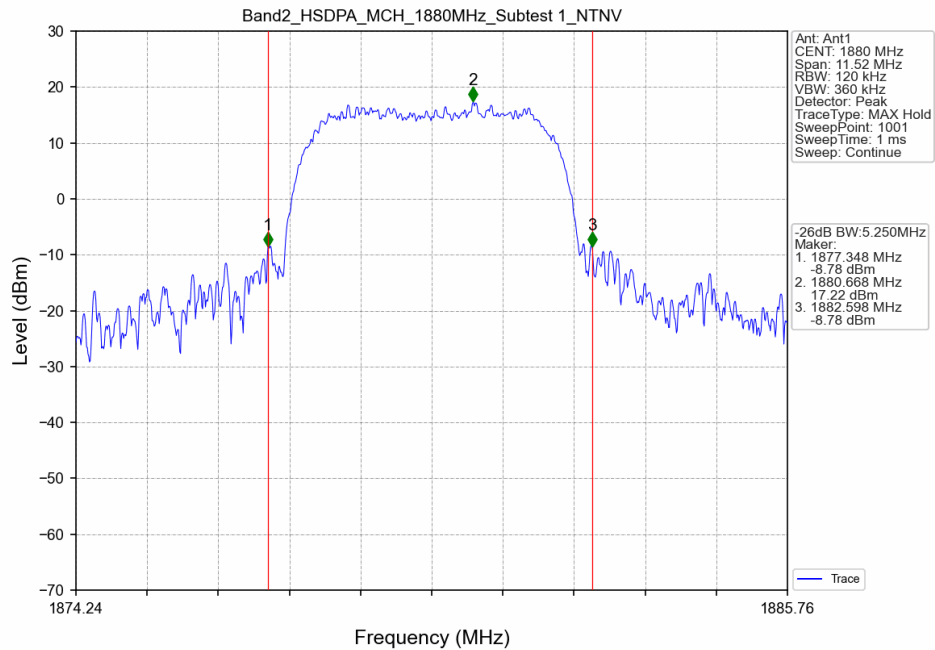
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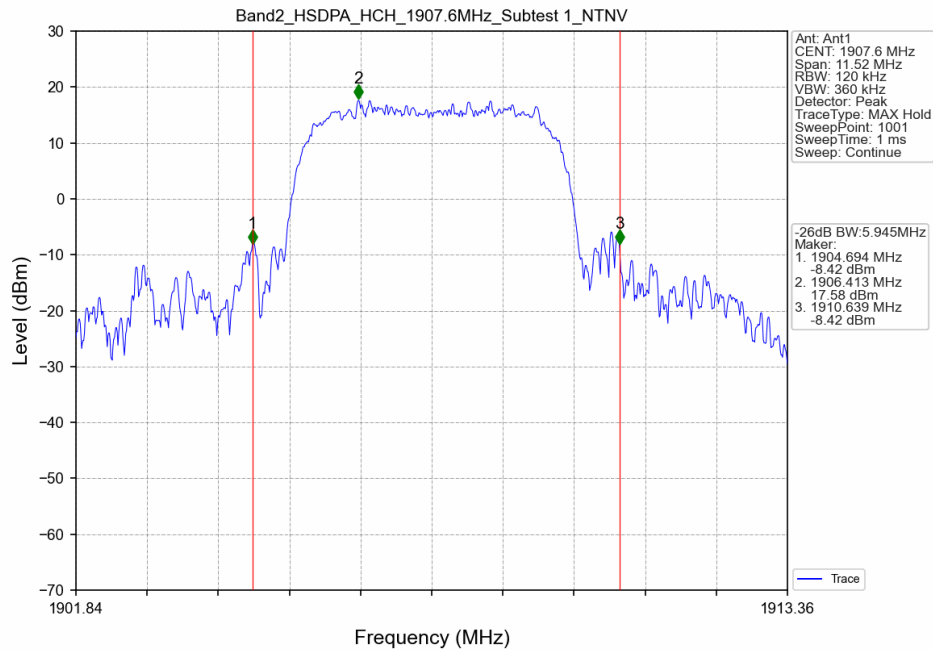
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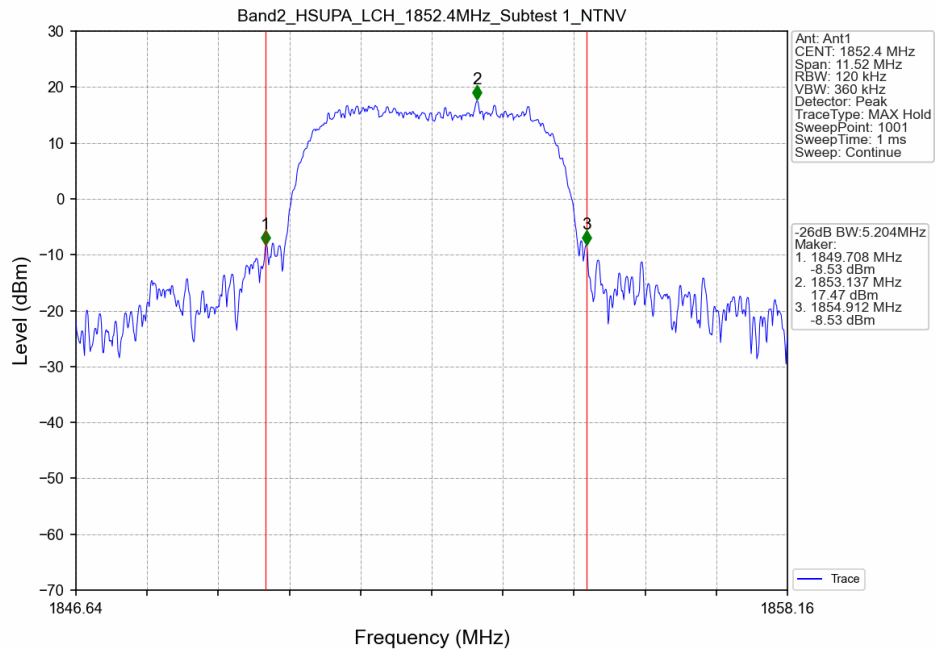
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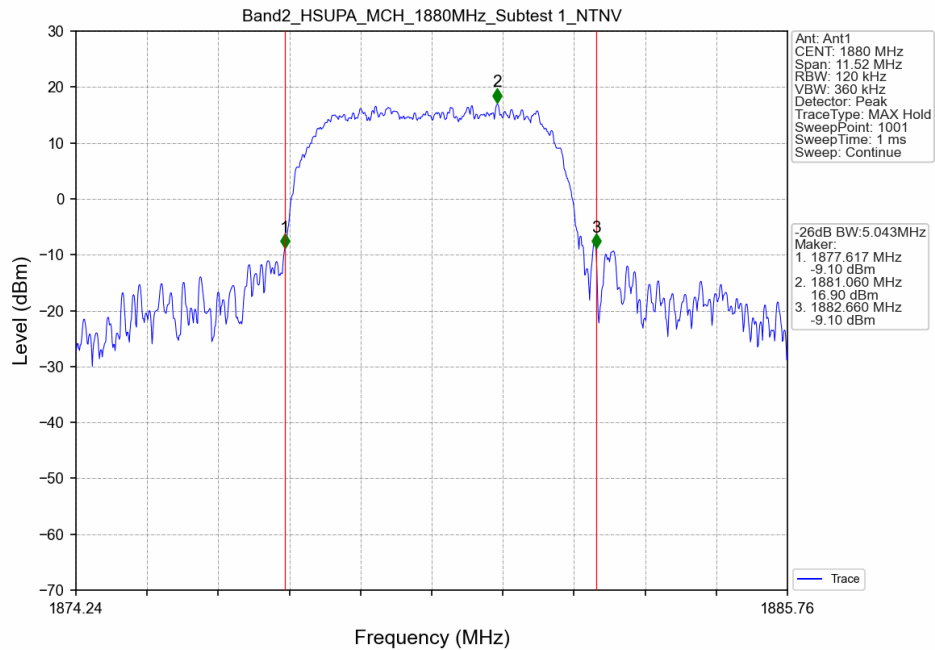
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Band II\_HSUPA\_MCH\_1880MHz\_Subtest 1\_NTNV



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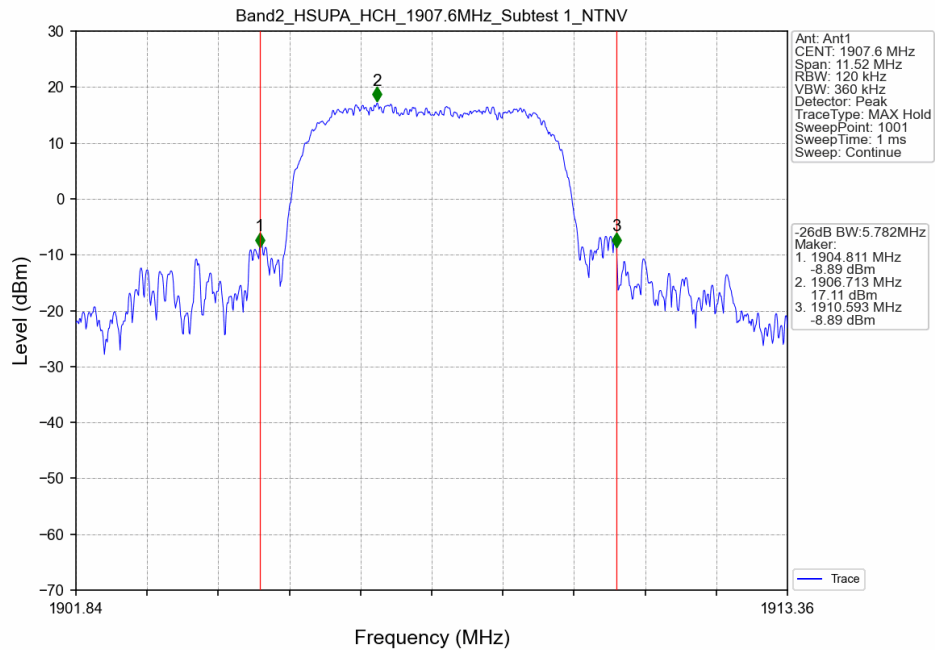
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## Band II\_HSUPA\_HCH\_1907.6MHz\_Subtest 1\_NTNV



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## 4. Peak-Average Ratio

### 4.1 Band II

#### 4.1.1 Test Result

Band II						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	2.80	$\leq 13$	Pass
			1880	2.91	$\leq 13$	Pass
			1907.6	2.77	$\leq 13$	Pass
	HSDPA	Subtest 1	1852.4	5.77	$\leq 13$	Pass
			1880	5.78	$\leq 13$	Pass
			1907.6	5.77	$\leq 13$	Pass
	HSUPA	Subtest 1	1852.4	5.81	$\leq 13$	Pass
			1880	5.82	$\leq 13$	Pass
			1907.6	5.85	$\leq 13$	Pass



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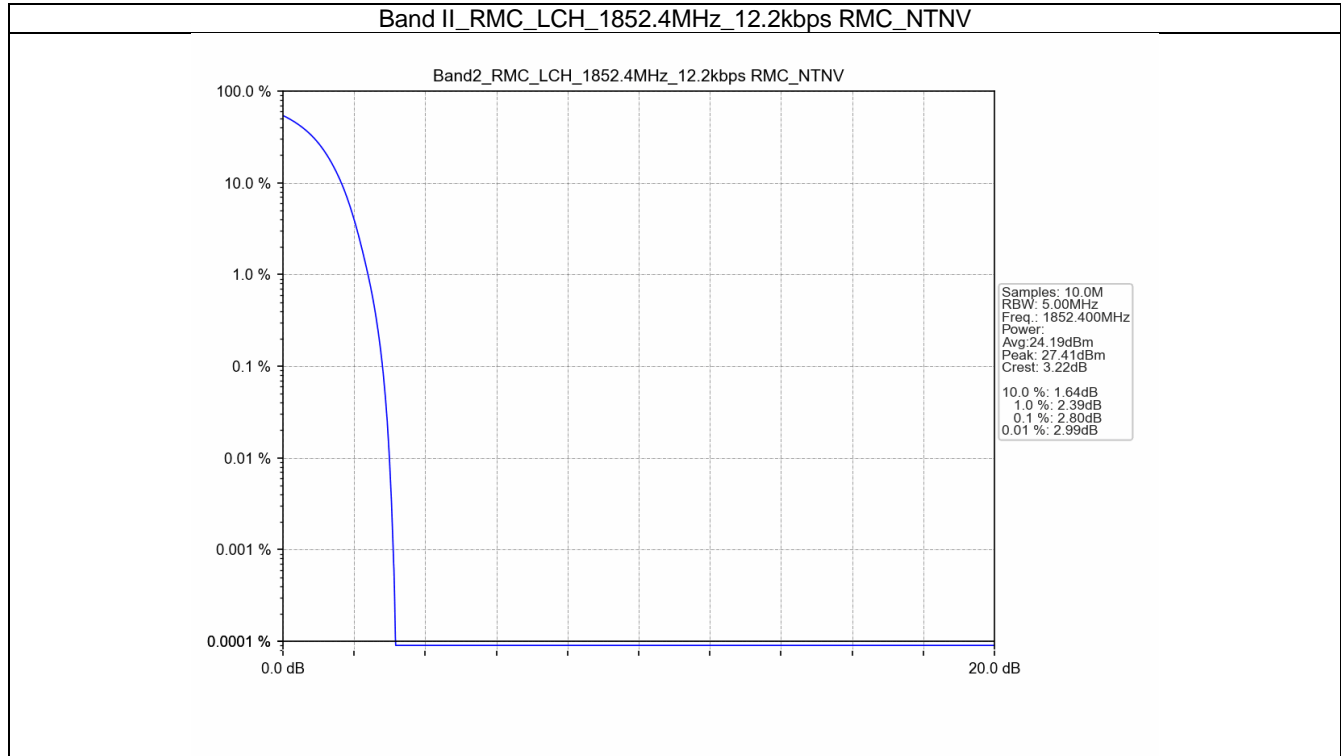
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## 4.1.2 Test Graph



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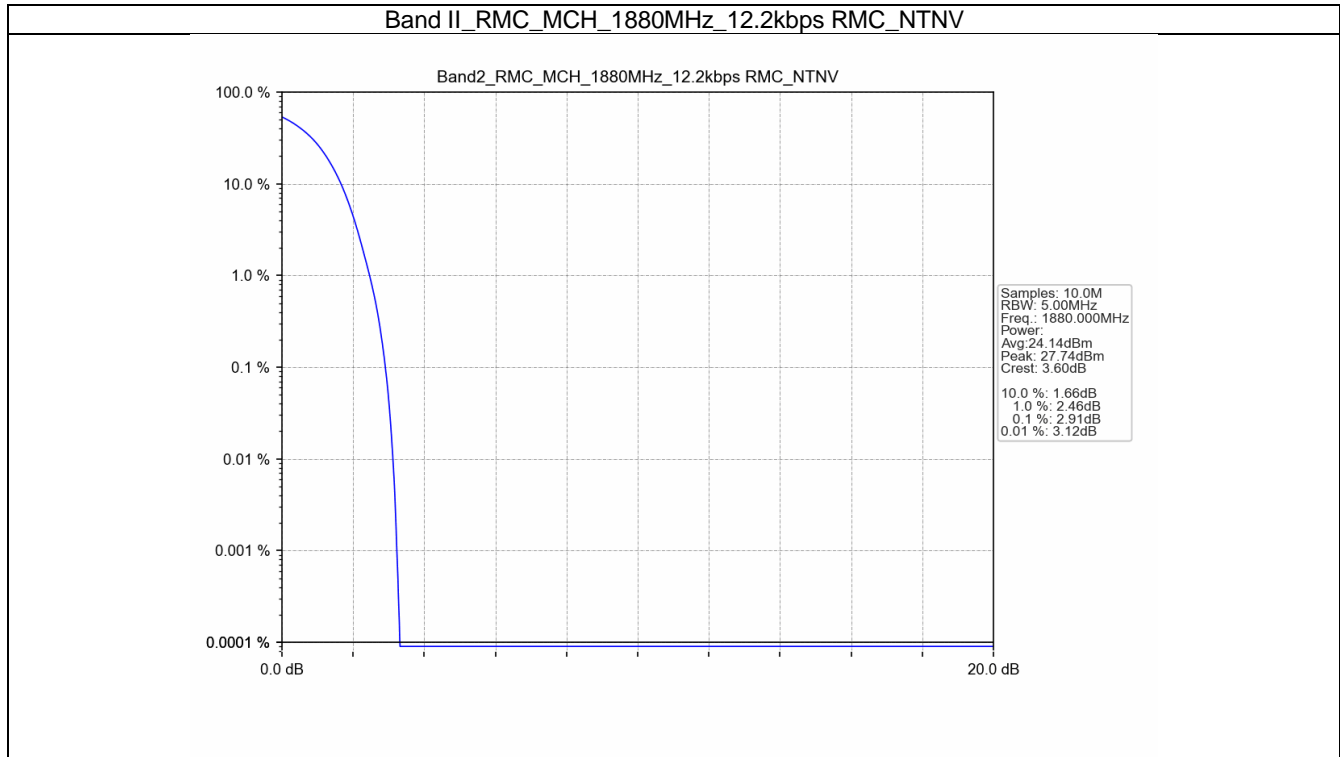


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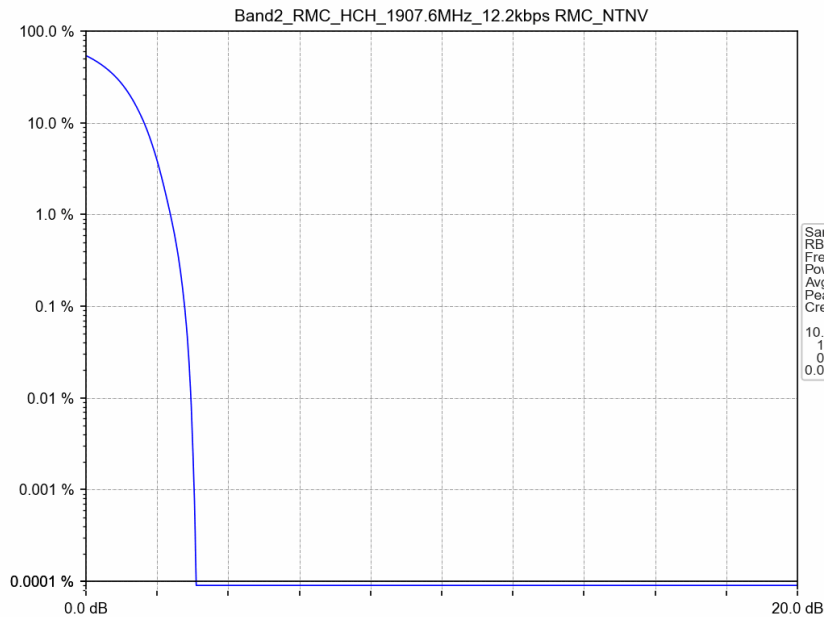
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Band II\_RMC\_HCH\_1907.6MHz\_12.2kbps RMC\_NTNV



Samples: 10.0M  
RBW: 5.00MHz  
Freq.: 1907.600MHz  
Power:  
Avg: 24.84dBm  
Peak: 27.98dBm  
Crest: 3.14dB  
10.0 %: 1.63dB  
1.0 %: 2.37dB  
0.1 %: 2.77dB  
0.01 %: 2.95dB



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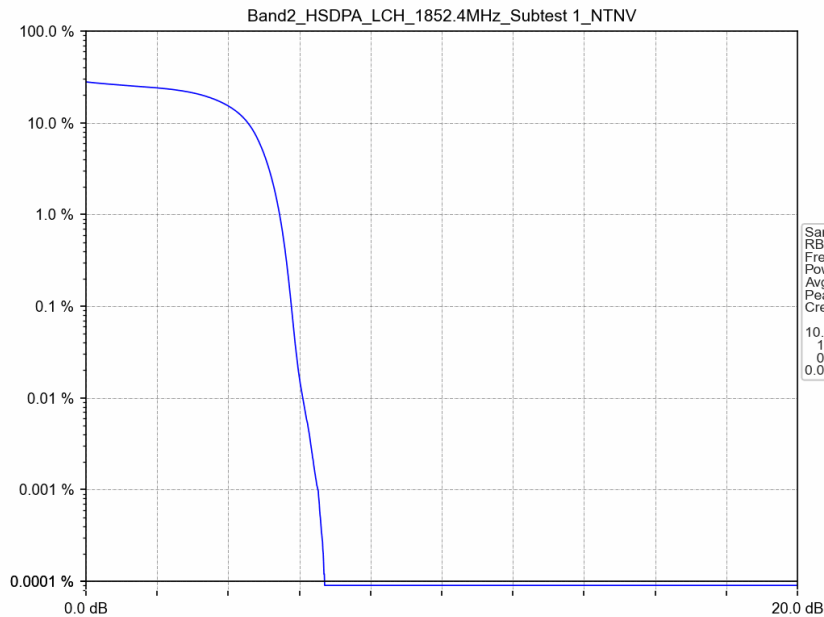
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Band II\_HSDPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



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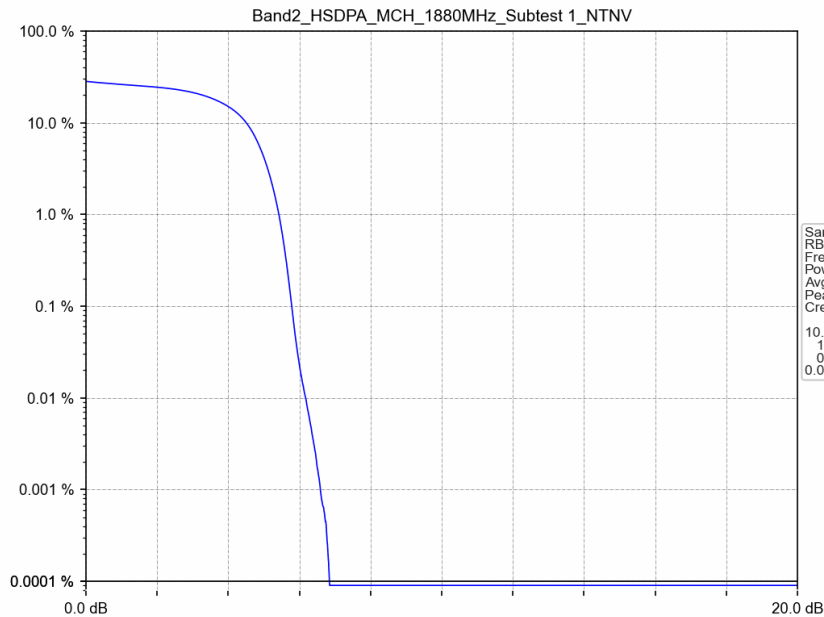
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Band II\_HSDPA\_MCH\_1880MHz\_Subtest 1\_NTNV



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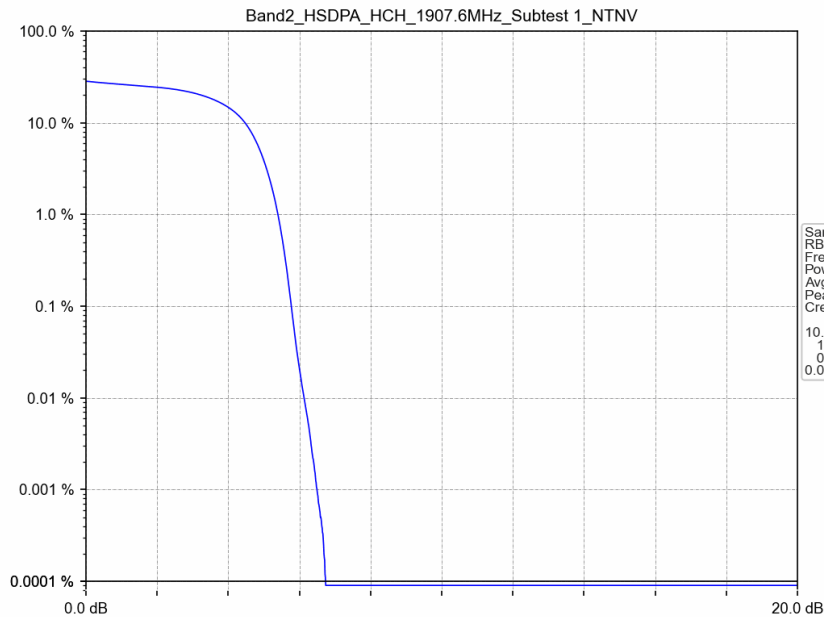
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Band II\_HSDPA\_HCH\_1907.6MHz\_Subtest 1\_NTNV



Samples: 10.0M  
RBW: 5.00MHz  
Freq.: 1907.600MHz  
Power:  
Avg: 20.92dBm  
Peak: 27.73dBm  
Crest: 6.81dB  
10.0 %: 4.47dB  
1.0 %: 5.40dB  
0.1 %: 5.77dB  
0.01 %: 6.13dB



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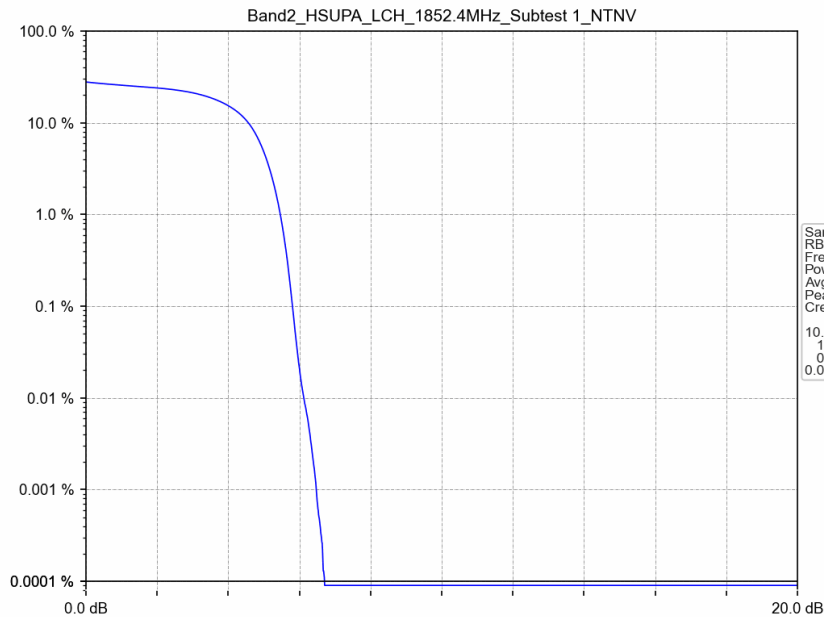
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Band II\_HSUPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



Samples: 10.0M  
RBW: 5.00MHz  
Freq.: 1852.400MHz  
Power:  
Avg: 20.29dBm  
Peak: 27.73dBm  
Crest: 7.44dB

10.0 %: 4.56dB  
1.0 %: 5.46dB  
0.1 %: 5.81dB  
0.01 %: 6.12dB



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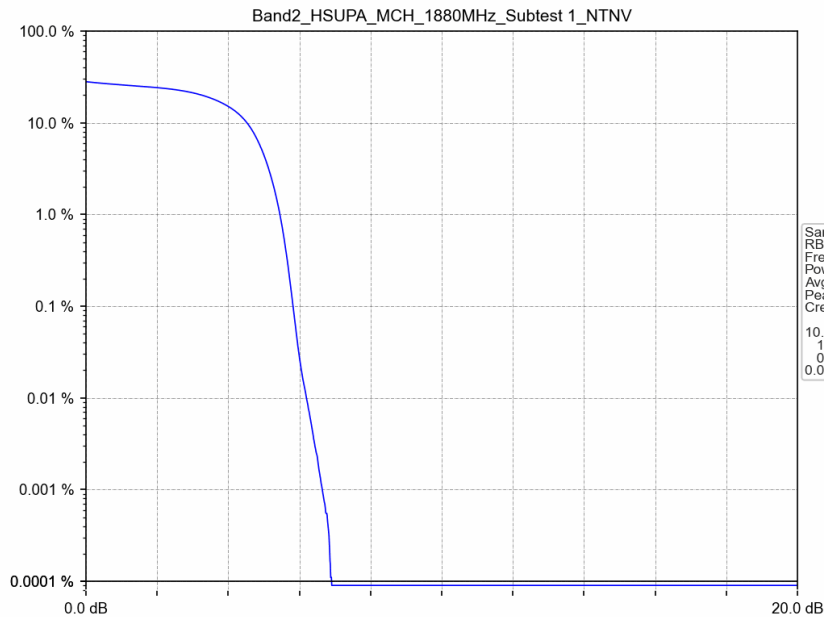
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Band II\_HSUPA\_MCH\_1880MHz\_Subtest 1\_NTNV



Samples: 10.0M  
RBW: 5.00MHz  
Freq.: 1880.000MHz  
Power:  
Avg: 20.24dBm  
Peak: 27.42dBm  
Crest: 7.18dB  
10.0 %: 4.52dB  
1.0 %: 5.45dB  
0.1 %: 5.82dB  
0.01 %: 6.20dB



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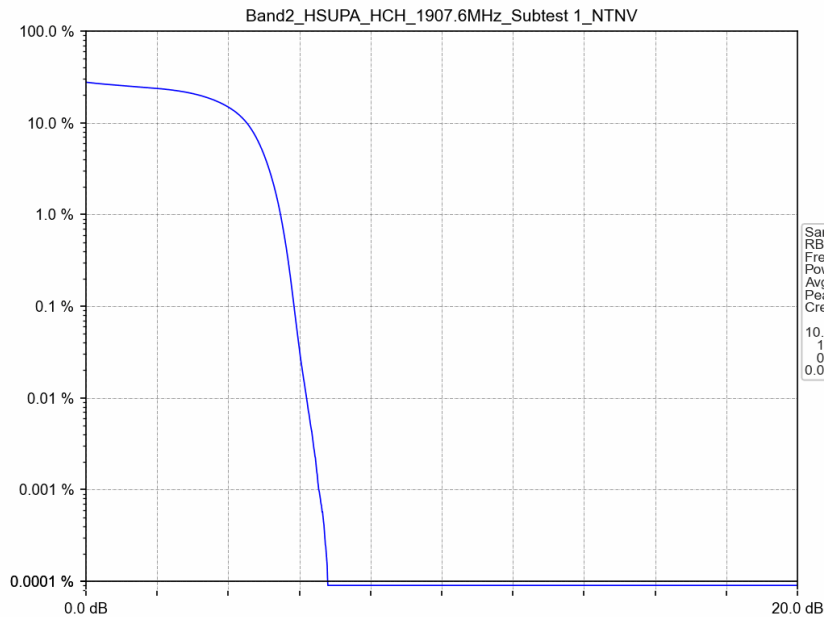
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## 5. Spurious Emission & Band Edge

### 5.1 Band II

#### 5.1.1 Test Result

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	



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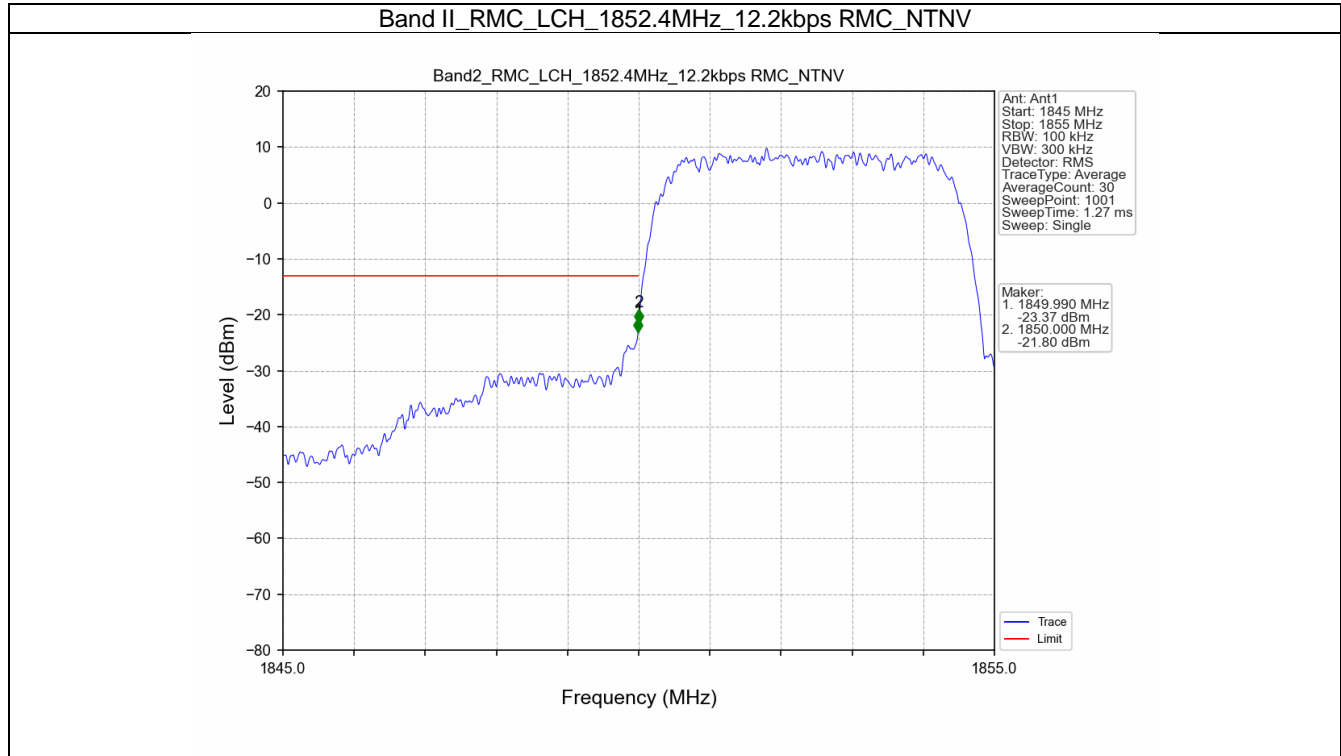
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## 5.1.2 Test Graph



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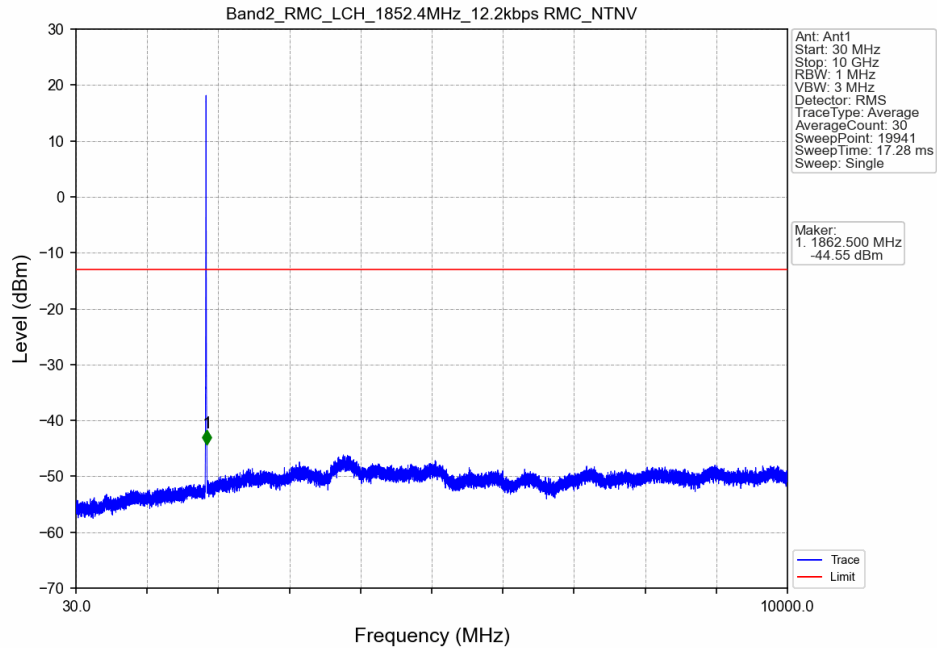
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## Band II\_RMC\_LCH\_1852.4MHz\_12.2kbps RMC\_NTNV



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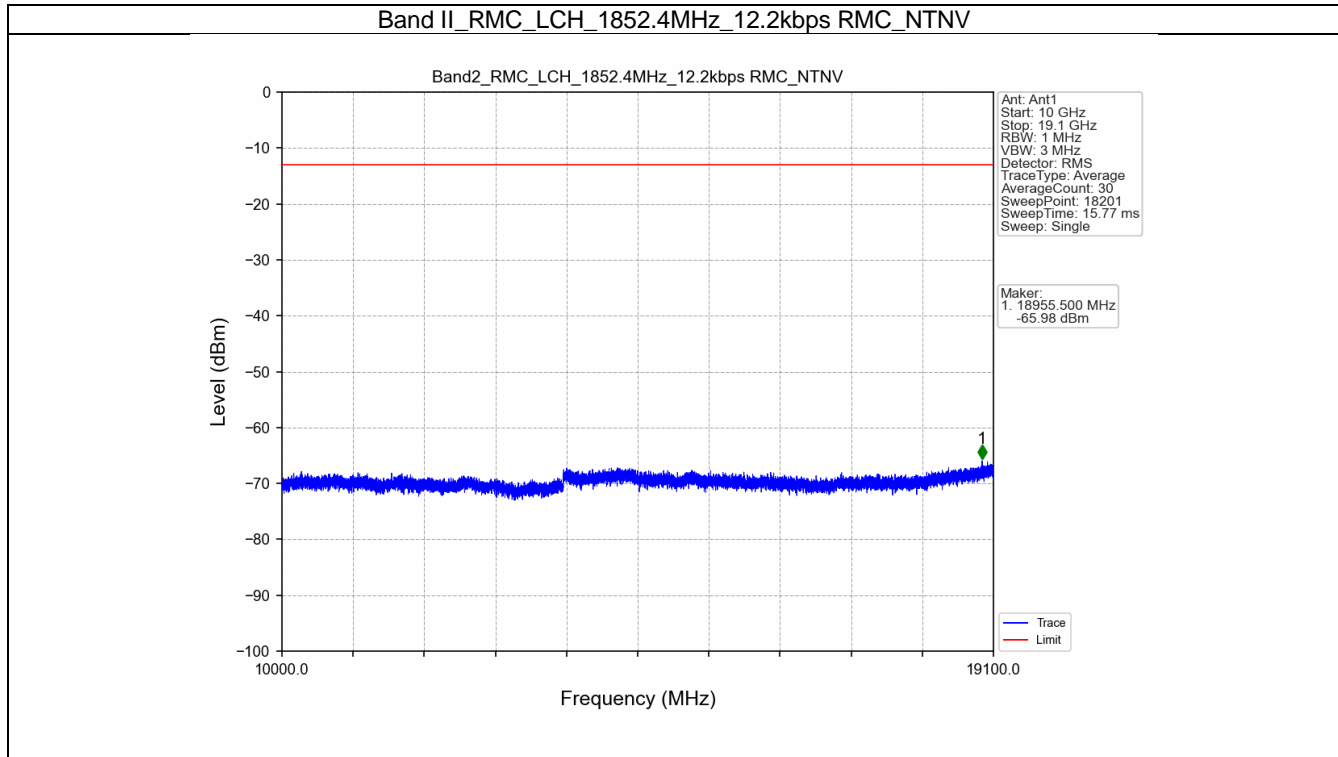


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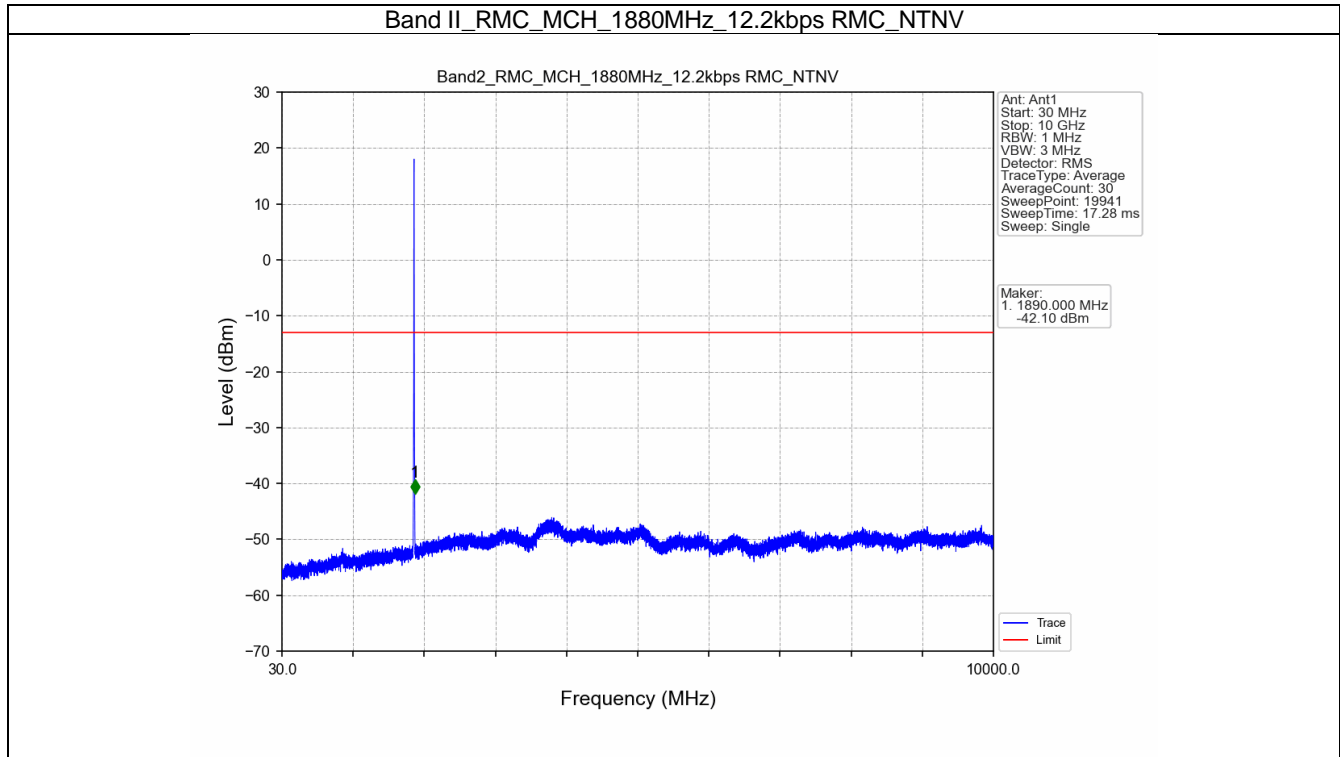


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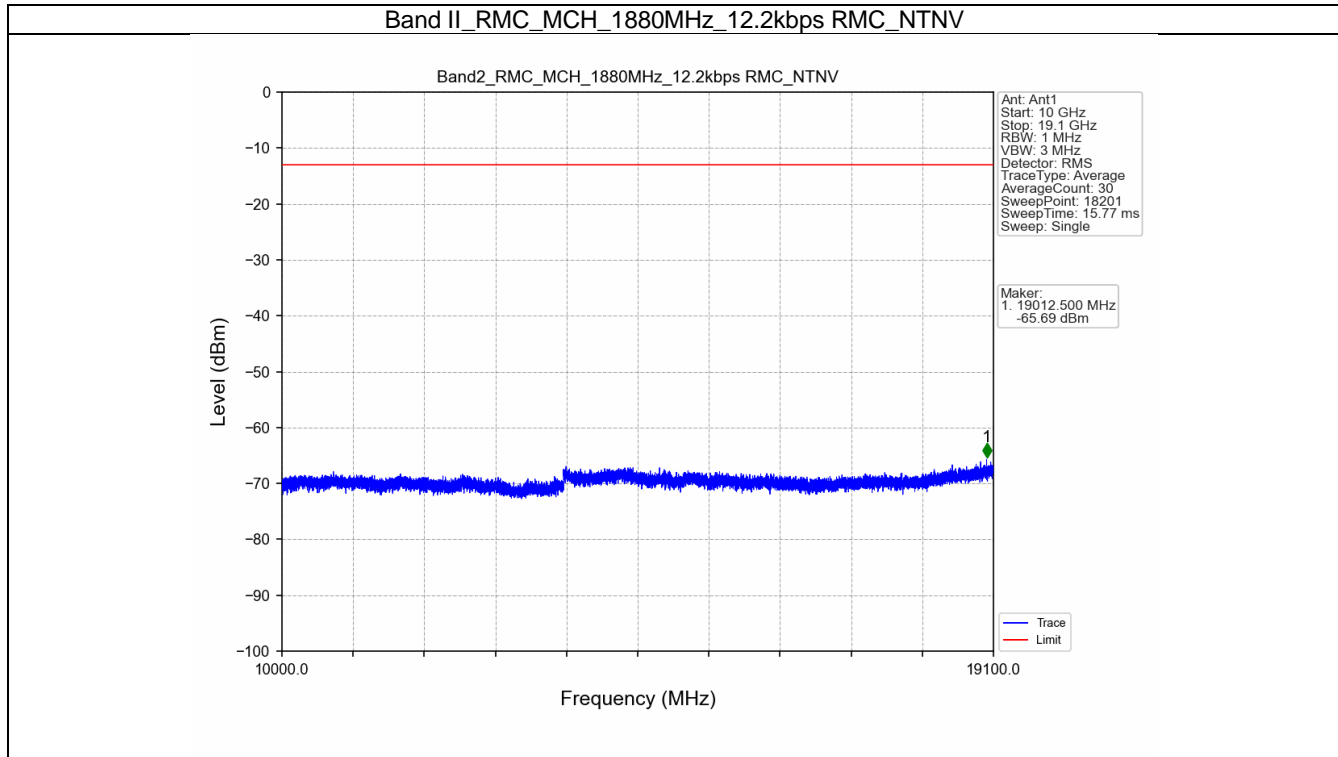


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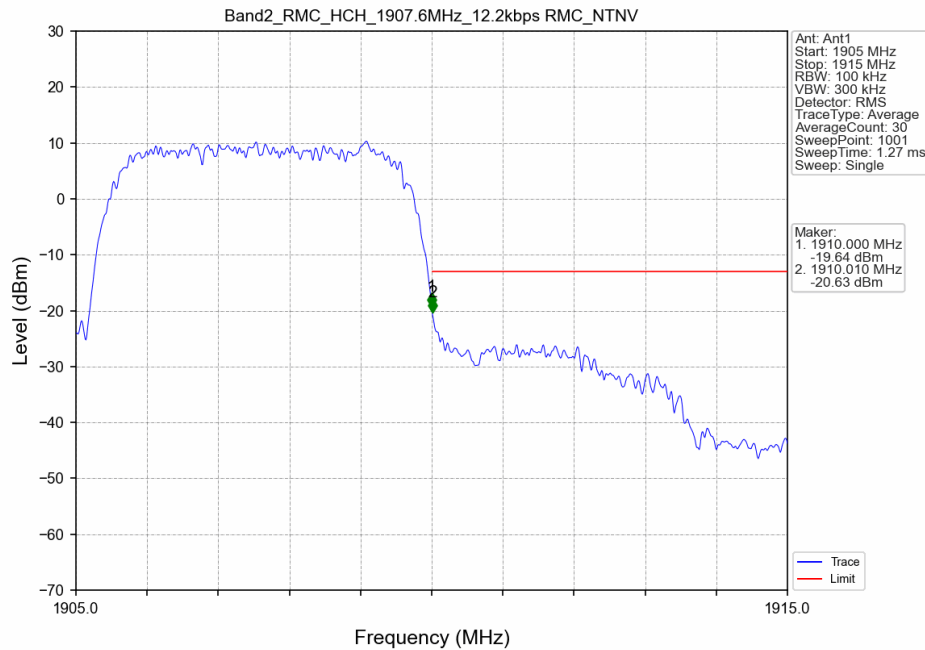
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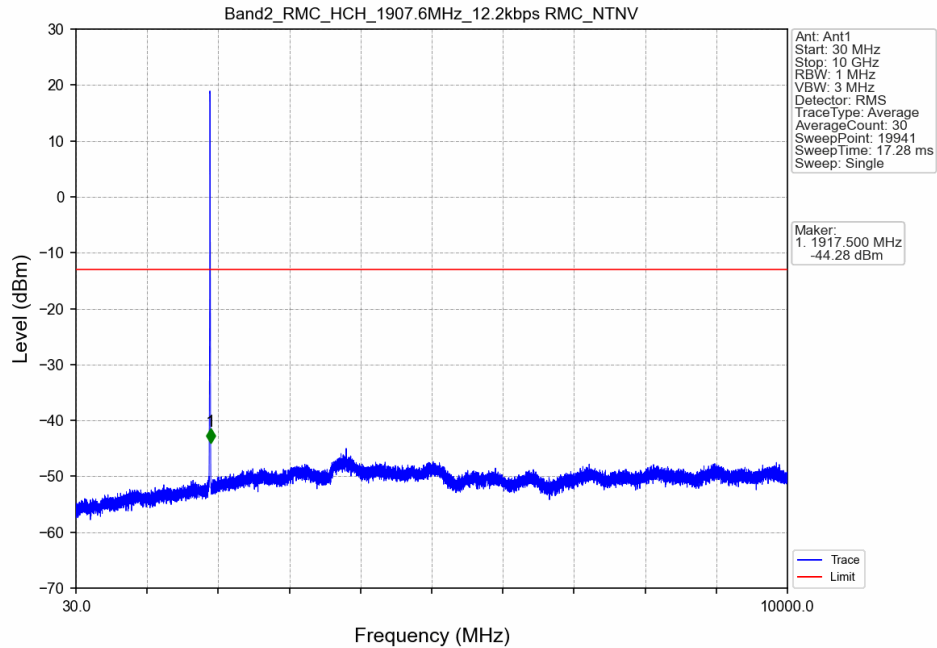
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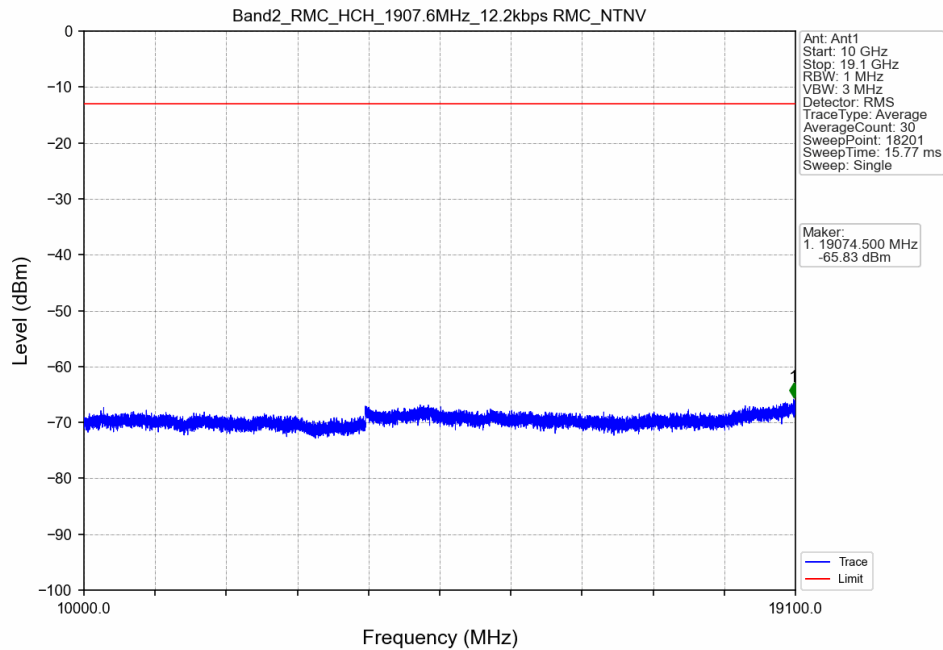
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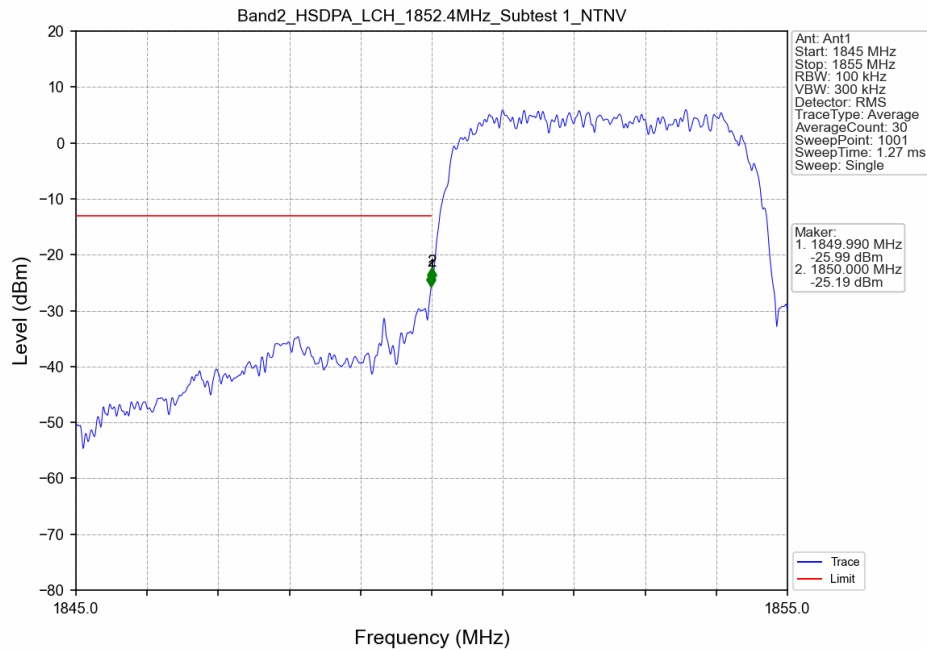
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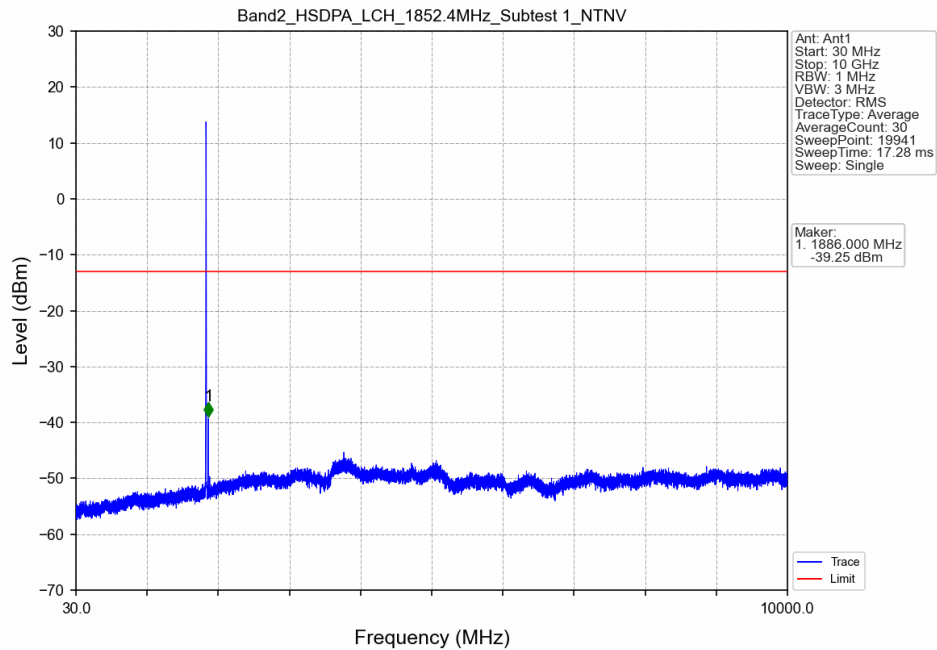
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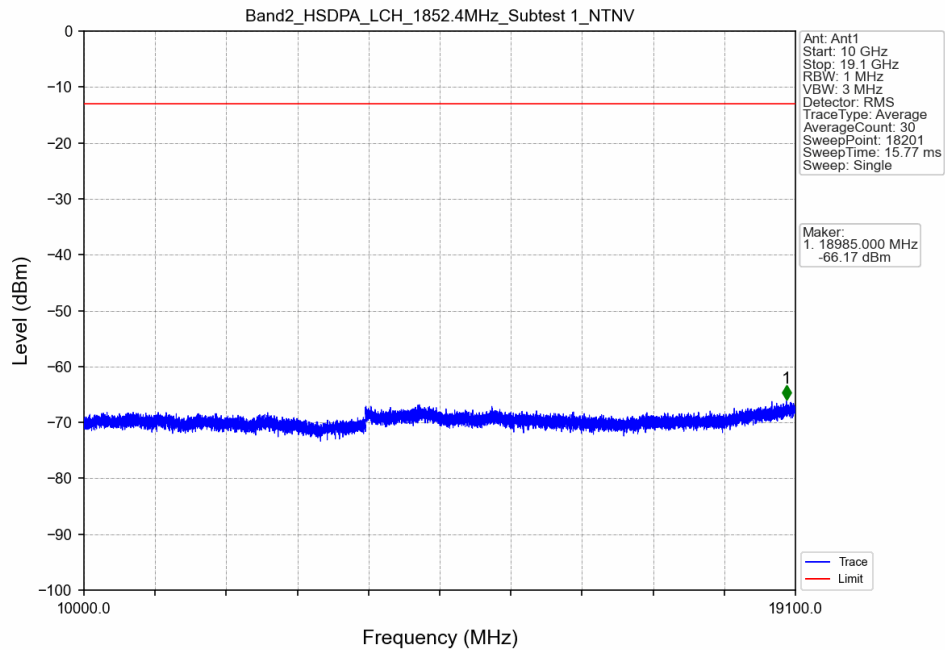
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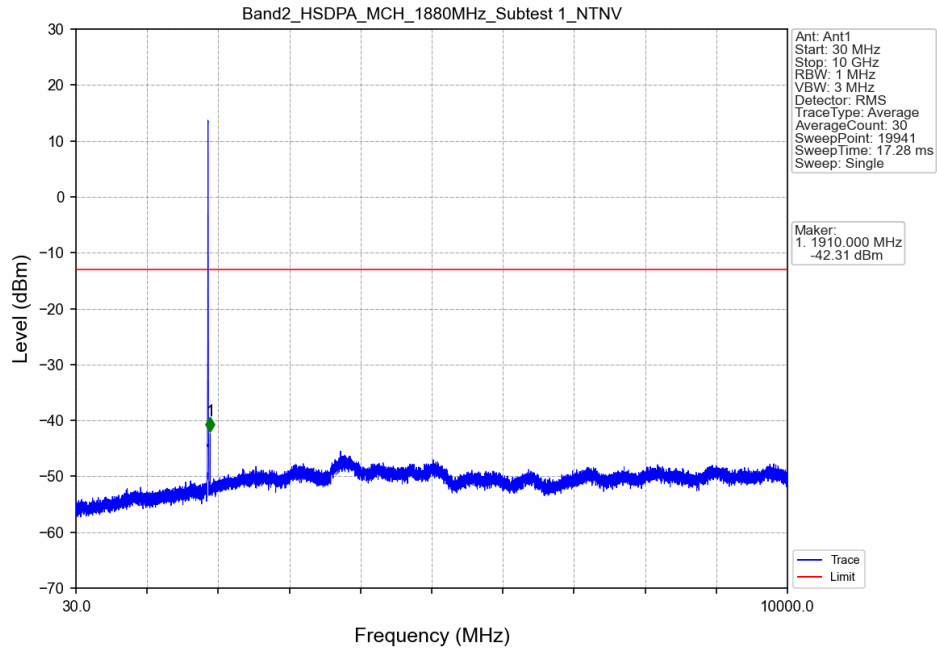
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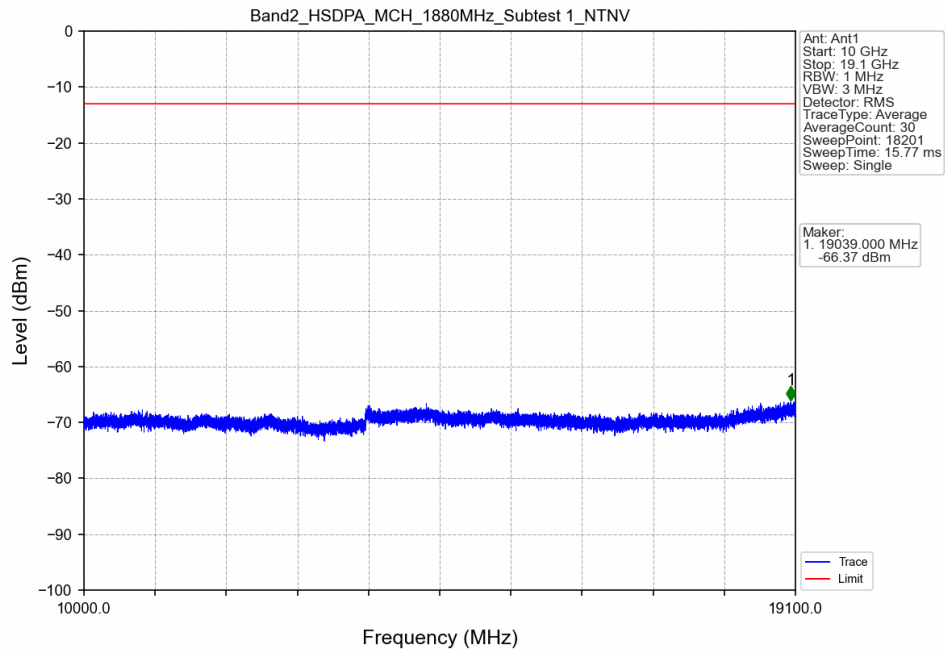
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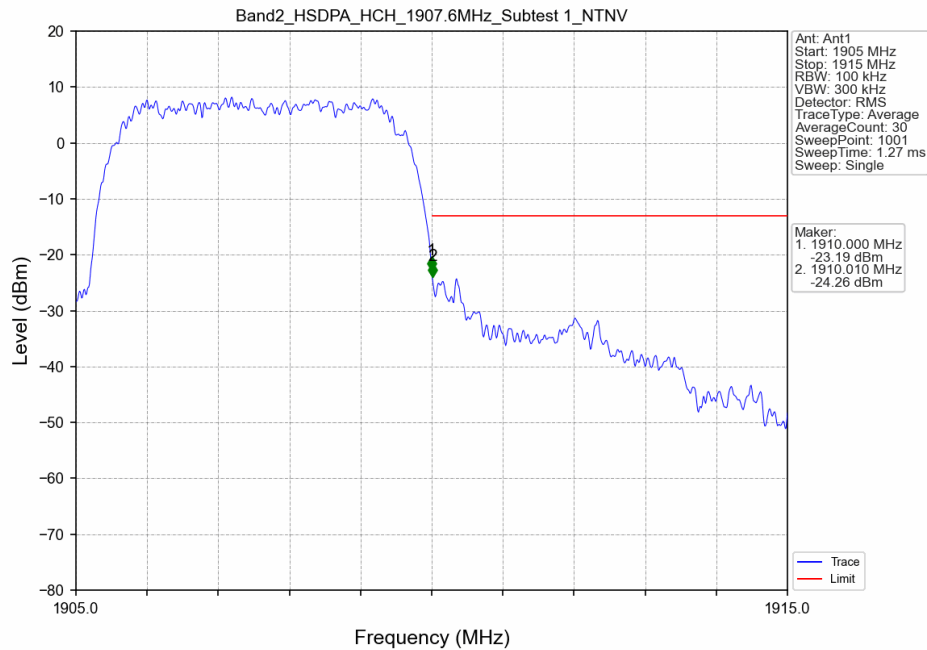
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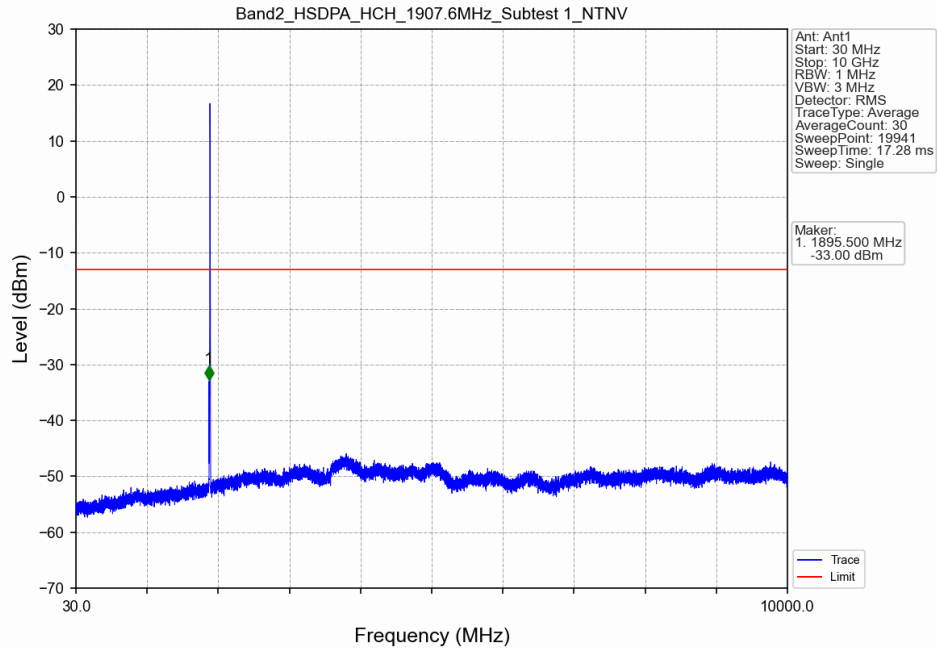
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## Band II\_HSDPA\_HCH\_1907.6MHz\_Subtest 1\_NTNV



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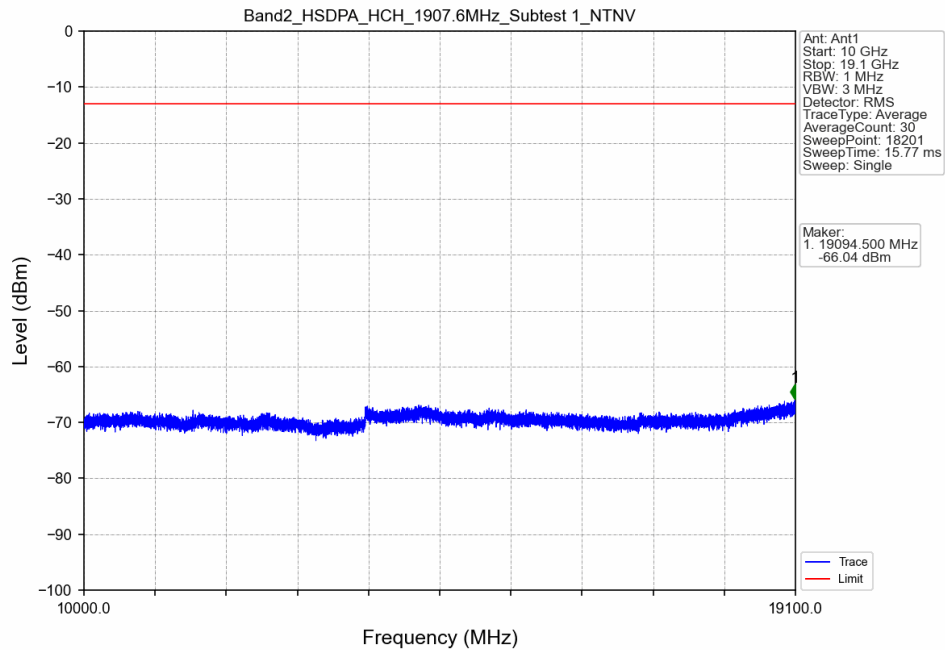
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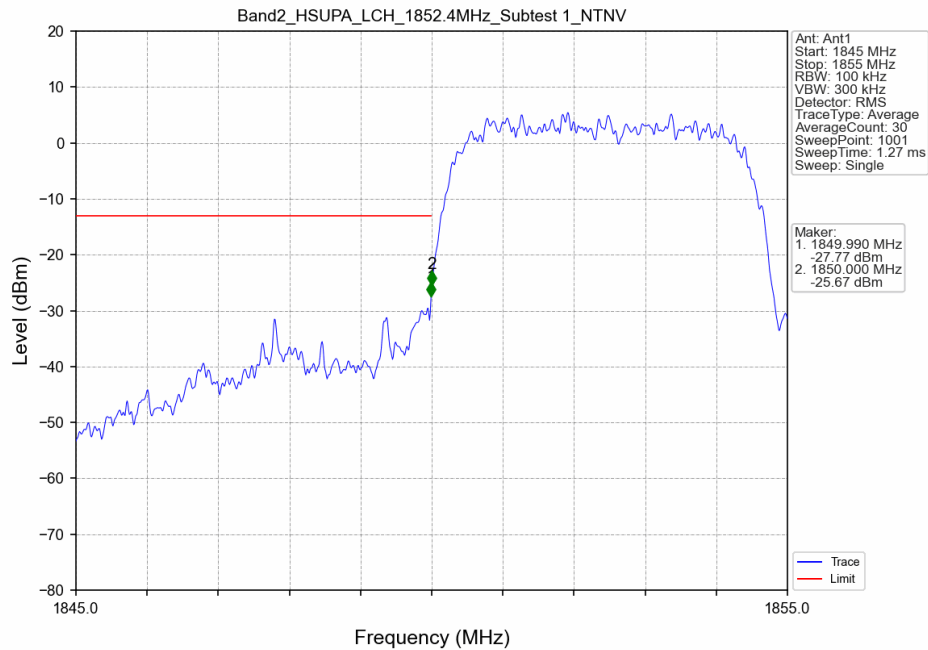
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## Band II\_HSUPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



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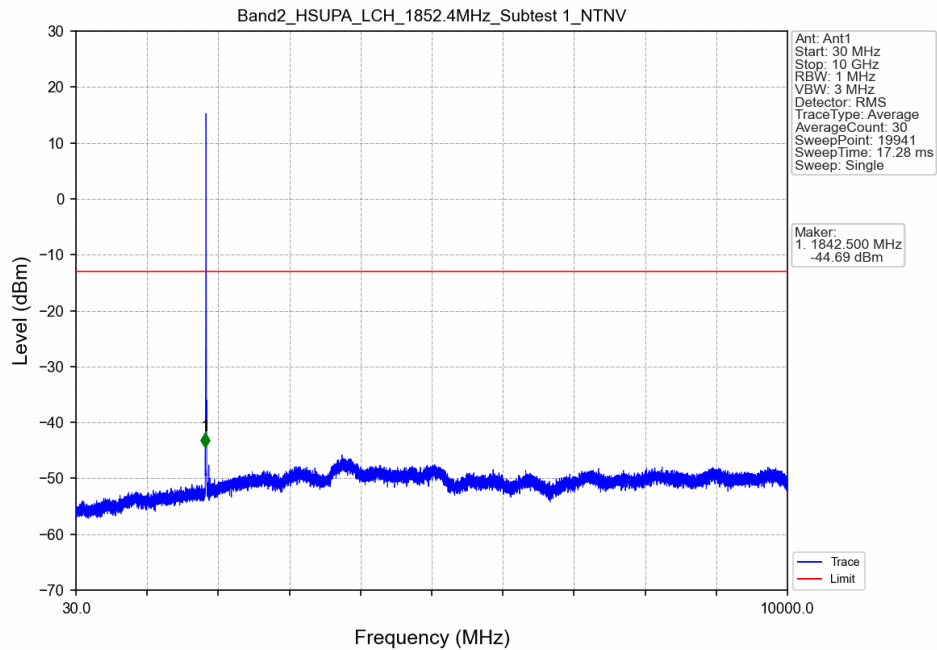
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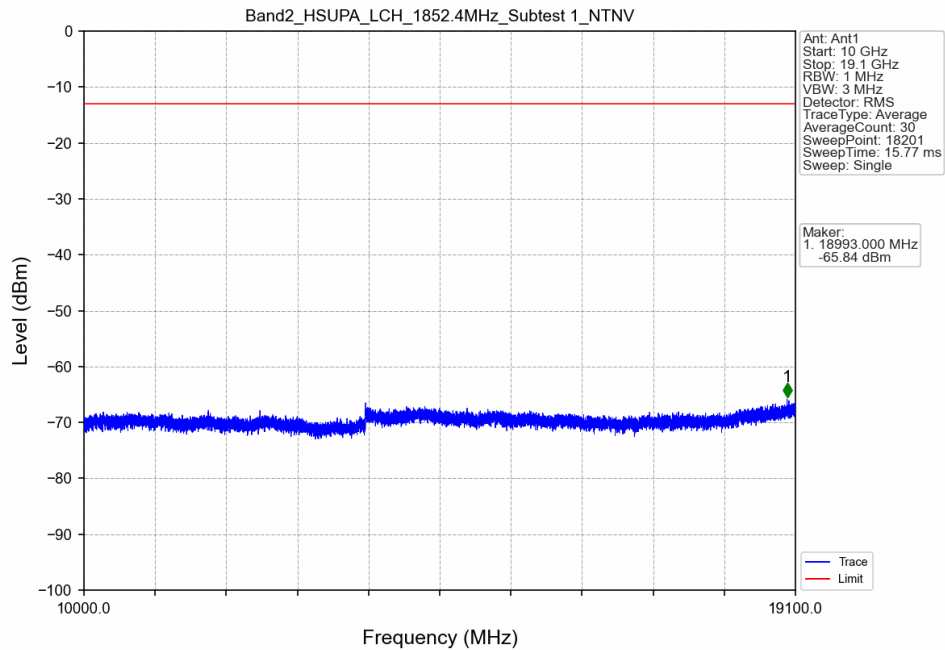
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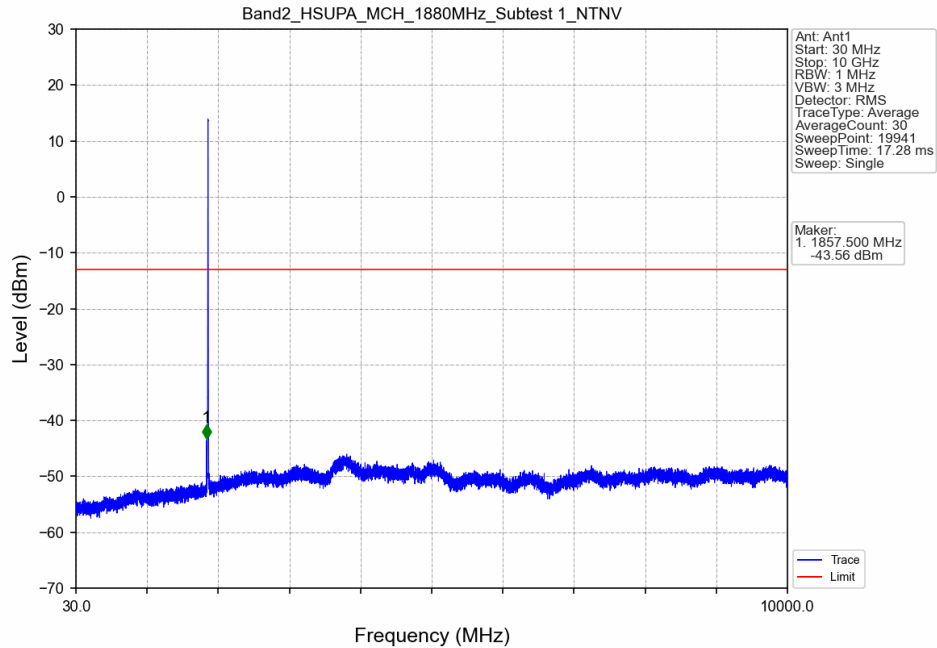
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## Band II\_HSUPA\_MCH\_1880MHz\_Subtest 1\_NTNV



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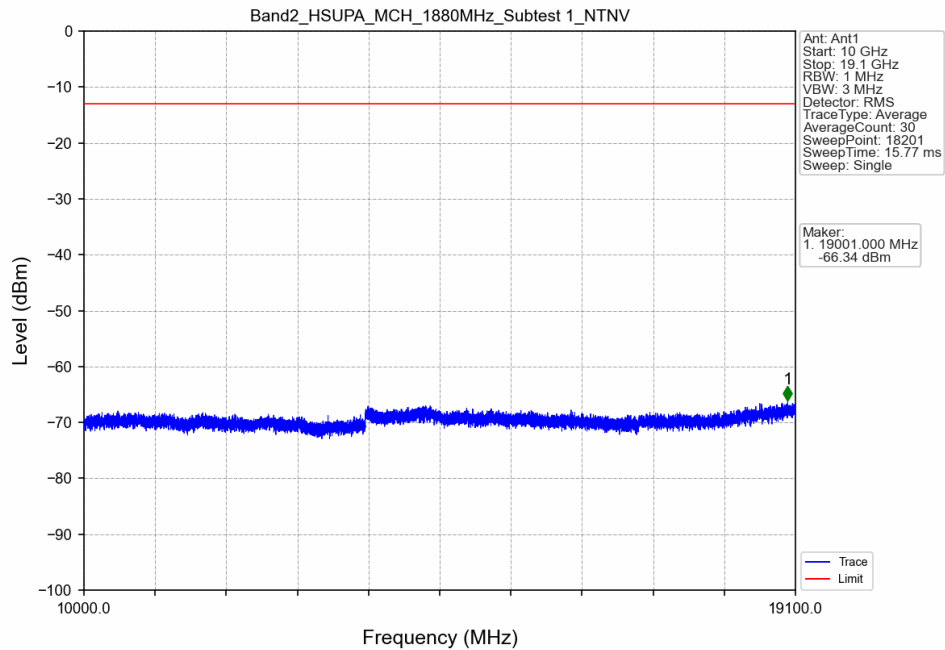
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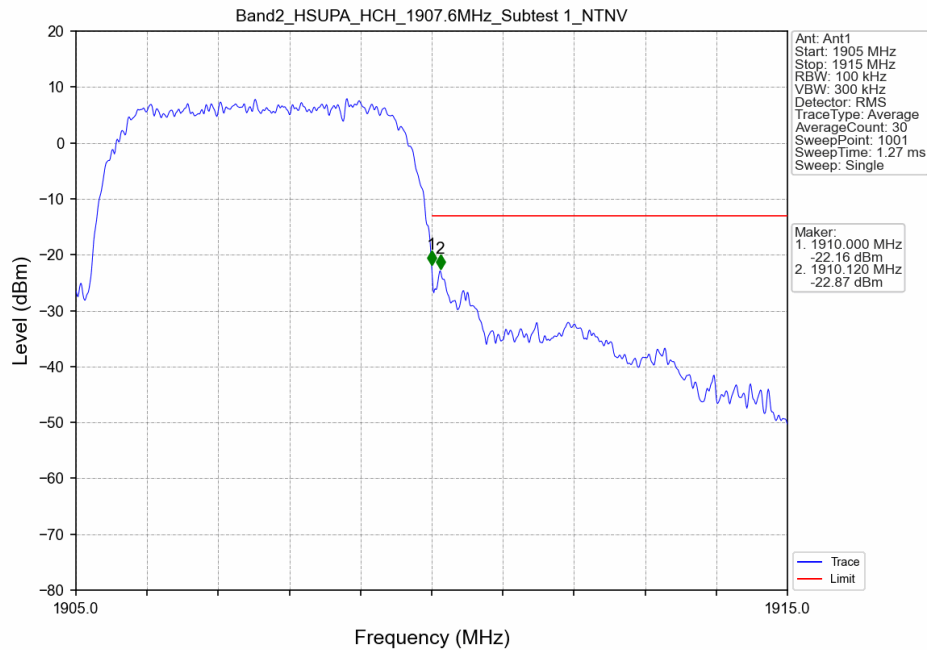
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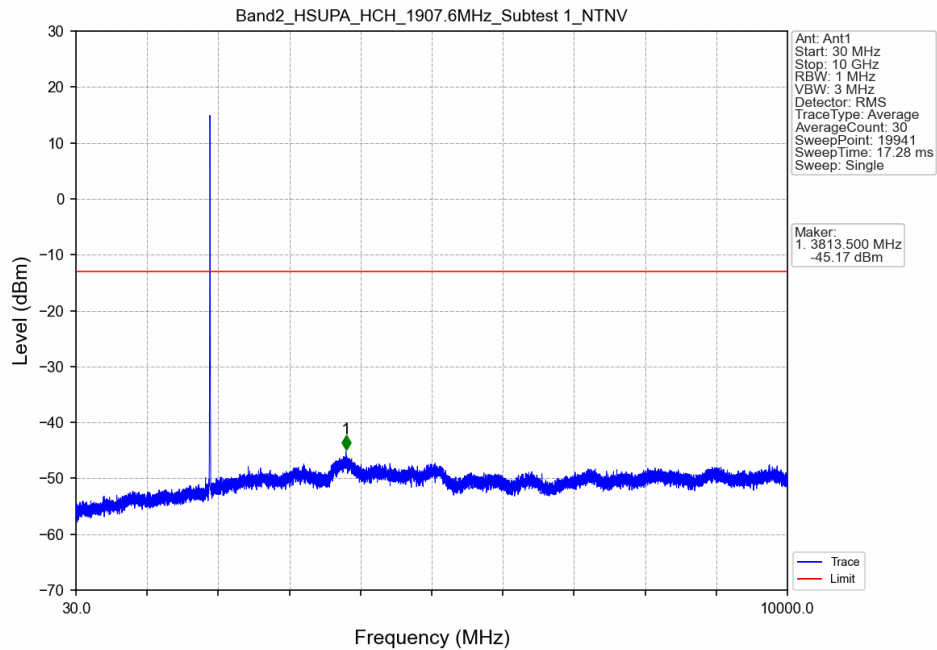
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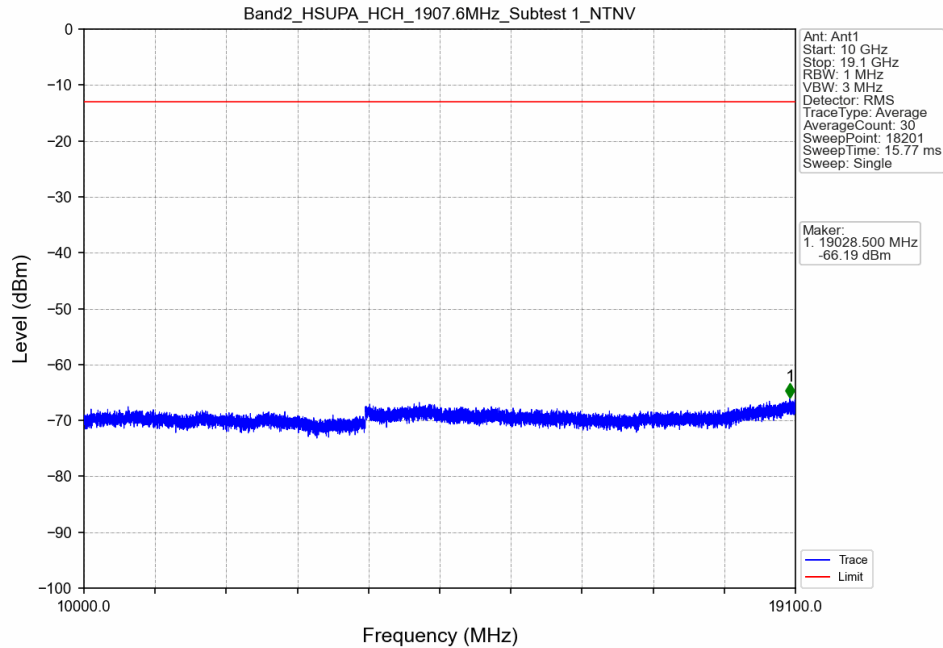
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## 6. Field Strength of Spurious Radiation

Test Band = Band II \_ TM1

Test Channel = low

Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamp_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
3704.8	32.99	6.46	36.11	-63.85	-49.17	-13	-36.17	Horizontal
5557.2	34.7	7.86	35.11	-65.09	-46.65	-13	-33.65	Horizontal
7409.6	35.84	9.42	35.99	-64.26	-44.88	-13	-31.88	Horizontal
Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamp_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
3704.8	32.99	6.46	36.11	-65.14	-50.46	-13	-37.46	Vertical
5557.2	34.7	7.86	35.11	-65.99	-47.55	-13	-34.55	Vertical
7409.6	35.84	9.42	35.99	-62.1	-42.72	-13	-29.72	Vertical



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**Test Band = Band II \_ TM1**  
**Test Channel = mid**

Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamplifier_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
3760	32.8	6.52	36.11	-65.68	-51.11	-13	-38.11	Horizontal
5640	34.46	7.92	35.07	-65.9	-47.87	-13	-34.87	Horizontal
7520	36.1	9.55	36.1	-64.27	-44.73	-13	-31.73	Horizontal
Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamplifier_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
3760	32.8	6.52	36.11	-64.75	-50.18	-13	-37.18	Vertical
5640	34.46	7.92	35.07	-66.12	-48.09	-13	-35.09	Vertical
7520	36.1	9.55	36.1	-61.9	-42.36	-13	-29.36	Vertical



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**Test Band = Band II \_ TM1**  
**Test Channel = high**

Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamplifier_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
3815.2	32.61	6.58	36.11	-64.7	-50.24	-13	-37.24	Horizontal
5722.8	34.25	7.98	35.03	-64.87	-47.21	-13	-34.21	Horizontal
7630.4	36.2	9.68	36.21	-63	-43.2	-13	-30.2	Horizontal
Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamplifier_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
3815.2	32.61	6.58	36.11	-64.6	-50.14	-13	-37.14	Vertical
5722.8	34.25	7.98	35.03	-65.14	-47.48	-13	-34.48	Vertical
7630.4	36.2	9.68	36.21	-63.8	-44	-13	-31	Vertical

Remark:

1) All antennas of RSE are tested, and only the worst data is presented.

---End of Attachment---



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Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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