

Appendix for KSEM210900155201(SHEM2107007586CR)

1. Effective (Isotropic) Radiated Power Output Data

1.1 Band2_EIRP

1.1.1 Test Result

ENV	Band: 2						Verdict
	Mode	Frequency (MHz)	Conducted Power (dBm)	Gain (dbi)	EIRP (dBm)	Result	
NTNV	RMC	12.2kbps RMC	1852.4	21.77	3.15	24.92	<=33.01 Pass
			1880	21.66	3.15	24.81	<=33.01 Pass
			1907.6	21.28	3.15	24.43	<=33.01 Pass
		Subtest 1	1852.4	18.90	3.15	22.05	<=33.01 Pass
	HSDPA	Subtest 2	1852.4	18.86	3.15	22.01	<=33.01 Pass
		Subtest 3	1852.4	18.82	3.15	21.97	<=33.01 Pass
		Subtest 4	1852.4	18.83	3.15	21.98	<=33.01 Pass
		Subtest 1	1880	19.11	3.15	22.26	<=33.01 Pass
		Subtest 2	1880	19.05	3.15	22.20	<=33.01 Pass
		Subtest 3	1880	19.05	3.15	22.20	<=33.01 Pass
		Subtest 4	1880	19.07	3.15	22.22	<=33.01 Pass
		Subtest 1	1907.6	18.83	3.15	21.98	<=33.01 Pass
		Subtest 2	1907.6	18.77	3.15	21.92	<=33.01 Pass
		Subtest 3	1907.6	18.73	3.15	21.88	<=33.01 Pass
		Subtest 4	1907.6	18.75	3.15	21.90	<=33.01 Pass
	HSUPA	Subtest 1	1852.4	17.39	3.15	20.54	<=33.01 Pass
		Subtest 2	1852.4	16.33	3.15	19.48	<=33.01 Pass
		Subtest 3	1852.4	16.86	3.15	20.01	<=33.01 Pass
		Subtest 4	1852.4	17.60	3.15	20.75	<=33.01 Pass
		Subtest 5	1852.4	16.78	3.15	19.93	<=33.01 Pass
		Subtest 1	1880	17.11	3.15	20.26	<=33.01 Pass
		Subtest 2	1880	16.77	3.15	19.92	<=33.01 Pass
		Subtest 3	1880	17.09	3.15	20.24	<=33.01 Pass
		Subtest 4	1880	17.63	3.15	20.78	<=33.01 Pass
		Subtest 5	1880	17.14	3.15	20.29	<=33.01 Pass
		Subtest 1	1907.6	17.14	3.15	20.29	<=33.01 Pass
		Subtest 2	1907.6	16.59	3.15	19.74	<=33.01 Pass
		Subtest 3	1907.6	17.26	3.15	20.41	<=33.01 Pass
		Subtest 4	1907.6	16.74	3.15	19.89	<=33.01 Pass
		Subtest 5	1907.6	16.89	3.15	20.04	<=33.01 Pass

Note1: EIRP=Conducted Power+Antenna Gain

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2. Frequency Stability

2.1 Band2

2.1.1 Test Result

Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Band: 2		Verdict	
					Result	Limit		
1852.4	RMC	20	3.27	13.55	0.01	-2.5 to 2.5	Pass	
			3.85	10.48	0.01	-2.5 to 2.5	Pass	
			4.43	18.30	0.01	-2.5 to 2.5	Pass	
			-30	3.85	11.56	0.01	-2.5 to 2.5	Pass
			-20	3.85	18.50	0.01	-2.5 to 2.5	Pass
			-10	3.85	17.75	0.01	-2.5 to 2.5	Pass
			0	3.85	15.46	0.01	-2.5 to 2.5	Pass
			10	3.85	16.56	0.01	-2.5 to 2.5	Pass
			30	3.85	16.42	0.01	-2.5 to 2.5	Pass
			40	3.85	13.53	0.01	-2.5 to 2.5	Pass
			50	3.85	16.21	0.01	-2.5 to 2.5	Pass
			60	3.85	16.23	0.01	-2.5 to 2.5	Pass
			70	3.85	16.25	0.01	-2.5 to 2.5	Pass
		1880	3.27	13.83	0.01	-2.5 to 2.5	Pass	
			3.85	14.00	0.01	-2.5 to 2.5	Pass	
			4.43	10.61	0.01	-2.5 to 2.5	Pass	
			-30	3.85	9.65	0.01	-2.5 to 2.5	Pass
			-20	3.85	16.54	0.01	-2.5 to 2.5	Pass
			-10	3.85	9.74	0.01	-2.5 to 2.5	Pass
			0	3.85	13.92	0.01	-2.5 to 2.5	Pass
			10	3.85	16.94	0.01	-2.5 to 2.5	Pass
			30	3.85	13.58	0.01	-2.5 to 2.5	Pass
			40	3.85	11.64	0.01	-2.5 to 2.5	Pass
			50	3.85	13.32	0.01	-2.5 to 2.5	Pass
			60	3.85	13.28	0.01	-2.5 to 2.5	Pass
			70	3.85	13.32	0.01	-2.5 to 2.5	Pass
		1907.6	3.27	3.50	0.00	-2.5 to 2.5	Pass	
			3.85	0.87	0.00	-2.5 to 2.5	Pass	
			4.43	7.76	0.00	-2.5 to 2.5	Pass	
			-30	3.85	1.61	0.00	-2.5 to 2.5	Pass
			-20	3.85	2.99	0.00	-2.5 to 2.5	Pass
			-10	3.85	4.79	0.00	-2.5 to 2.5	Pass
			0	3.85	1.86	0.00	-2.5 to 2.5	Pass
			10	3.85	-1.67	-0.00	-2.5 to 2.5	Pass
			30	3.85	2.47	0.00	-2.5 to 2.5	Pass
			40	3.85	5.88	0.00	-2.5 to 2.5	Pass
			50	3.85	2.47	0.00	-2.5 to 2.5	Pass
			60	3.85	2.41	0.00	-2.5 to 2.5	Pass

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		70	3.85	2.52	0.00	-2.5 to 2.5	Pass
HSDPA	1852.4	20	3.27 3.85 4.43 -30 -20 -10 0 10 30 40 50 60 70	8.28 8.68 9.03 9.80 6.62 9.02 10.78 5.32 8.45 10.66 2.20 2.19 2.22	0.00 0.00 0.00 0.01 0.00 0.00 0.01 0.00 0.00 0.01 0.00 0.00 0.00	-2.5 to 2.5 -2.5 to 2.5	Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass
		20	3.27 3.85 4.43 -30 -20 -10 0 10 30 40 50 60 70	7.00 6.42 5.83 2.23 0.33 7.30 3.03 5.52 7.10 5.08 4.13 4.87 4.93	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	-2.5 to 2.5 -2.5 to 2.5	Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass
		20	3.27 3.85 4.43 -30 -20 -10 0 10 30 40 50 60 70	-6.24 1.90 -5.98 -6.12 -9.64 -4.67 -6.13 -6.16 -7.48 -9.83 -3.41 -9.79 -3.46	-0.00 0.00 -0.00 -0.00 -0.01 -0.00 -0.00 -0.00 -0.00 -0.01 -0.00 -0.01 -0.00	-2.5 to 2.5 -2.5 to 2.5	Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass
		20	3.27 3.85 4.43 -30 -20 -10 0 10 30 40 50 60 70	4.22 1.95 2.42 7.80 5.39 4.30 3.38 4.63	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	-2.5 to 2.5 -2.5 to 2.5	Pass Pass Pass Pass Pass Pass Pass Pass
		20	3.27 3.85 4.43 -30 -20 -10 0 10	7.80 5.39 4.30 3.38 4.63	0.00 0.00 0.00 0.00 0.00	-2.5 to 2.5 -2.5 to 2.5 -2.5 to 2.5 -2.5 to 2.5 -2.5 to 2.5	Pass Pass Pass Pass Pass
HSUPA	1852.4	20	3.27 3.85 4.43 -30 -20 -10 0 10	4.22 1.95 2.42 7.80 5.39 4.30 3.38 4.63	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	-2.5 to 2.5 -2.5 to 2.5	Pass Pass Pass Pass Pass Pass Pass Pass

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	1880	30	3.85	-0.26	-0.00	-2.5 to 2.5	Pass
		40	3.85	-0.77	-0.00	-2.5 to 2.5	Pass
		50	3.85	0.59	0.00	-2.5 to 2.5	Pass
		60	3.85	4.34	0.00	-2.5 to 2.5	Pass
		70	3.85	3.36	0.00	-2.5 to 2.5	Pass
1907.6	1907.6	20	3.27	-1.52	-0.00	-2.5 to 2.5	Pass
		20	3.85	0.33	0.00	-2.5 to 2.5	Pass
		4.43	4.05	0.00	-2.5 to 2.5	Pass	
		-30	3.85	1.38	0.00	-2.5 to 2.5	Pass
		-20	3.85	-0.37	-0.00	-2.5 to 2.5	Pass
		-10	3.85	-0.22	-0.00	-2.5 to 2.5	Pass
		0	3.85	6.00	0.00	-2.5 to 2.5	Pass
		10	3.85	1.61	0.00	-2.5 to 2.5	Pass
		30	3.85	-2.42	-0.00	-2.5 to 2.5	Pass
		40	3.85	-5.42	-0.00	-2.5 to 2.5	Pass
		50	3.85	2.28	0.00	-2.5 to 2.5	Pass
		60	3.85	-2.47	-0.00	-2.5 to 2.5	Pass
		70	3.85	-4.99	-0.00	-2.5 to 2.5	Pass
		20	3.27	-6.81	-0.00	-2.5 to 2.5	Pass
		20	3.85	-13.33	-0.01	-2.5 to 2.5	Pass
		4.43	4.37	-0.01	-2.5 to 2.5	Pass	
		-30	3.85	-6.22	-0.00	-2.5 to 2.5	Pass
		-20	3.85	-11.94	-0.01	-2.5 to 2.5	Pass
		-10	3.85	-8.74	-0.00	-2.5 to 2.5	Pass
		0	3.85	-9.85	-0.01	-2.5 to 2.5	Pass
		10	3.85	-0.46	-0.00	-2.5 to 2.5	Pass
		30	3.85	-4.21	-0.00	-2.5 to 2.5	Pass
		40	3.85	-8.83	-0.00	-2.5 to 2.5	Pass
		50	3.85	-17.65	-0.01	-2.5 to 2.5	Pass
		60	3.85	-8.69	-0.00	-2.5 to 2.5	Pass
		70	3.85	-9.92	-0.01	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Band2

3.1.1 Test Result

ENV	Band: 2				Verdict	
	Network	Mode		Frequency (MHz)		
		Subset	Result			
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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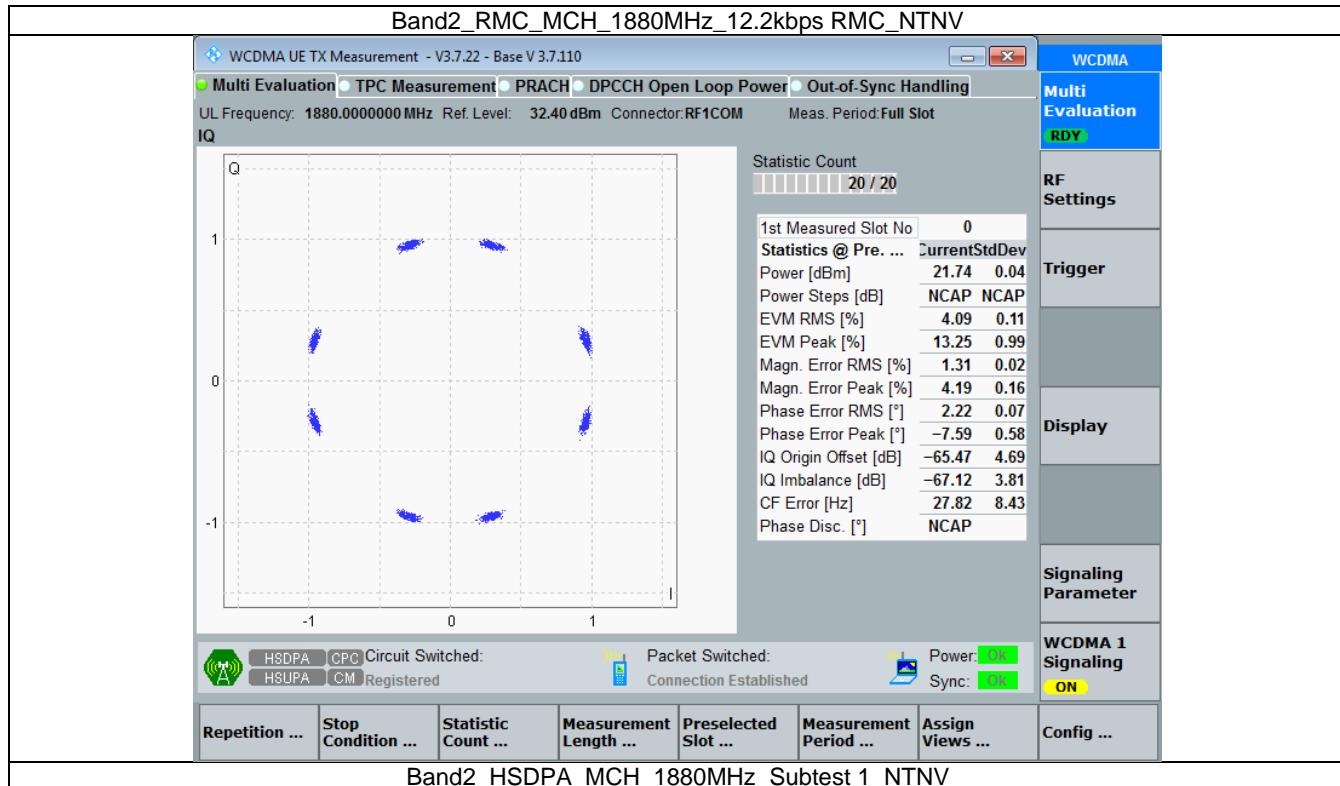
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3.1.2 Test Graph



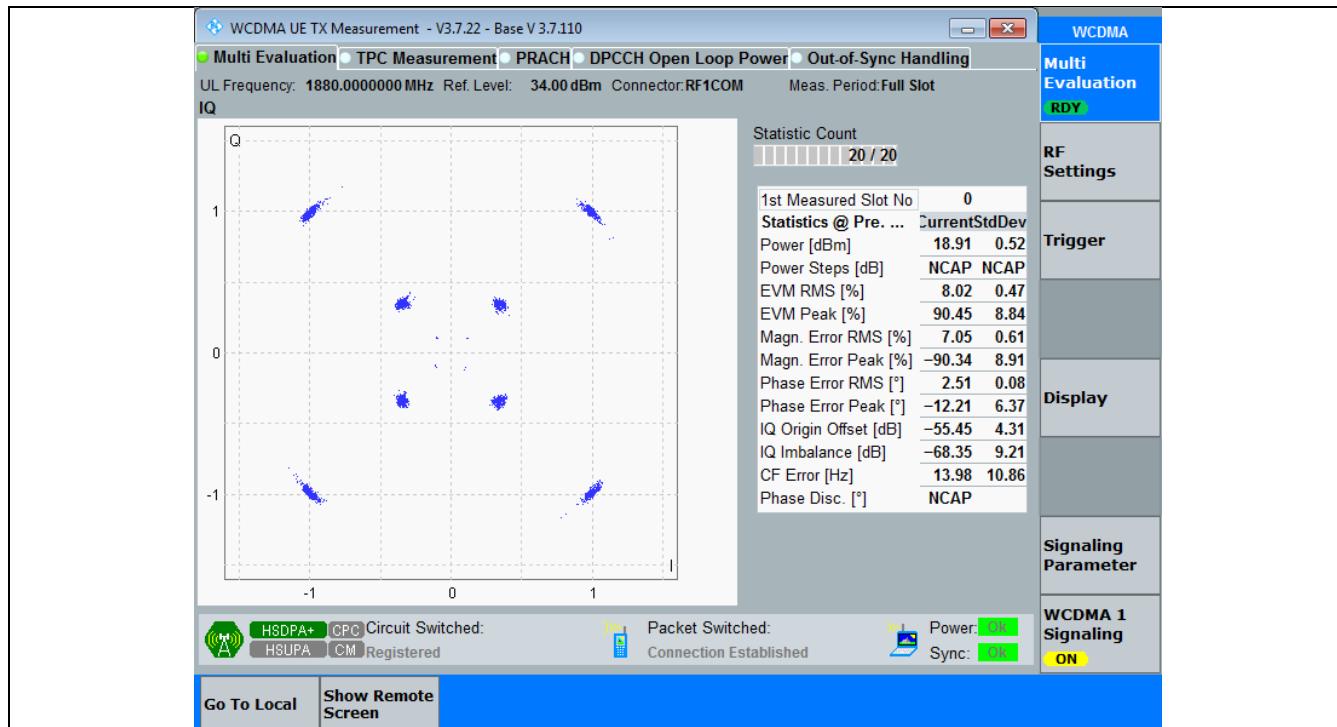
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Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV

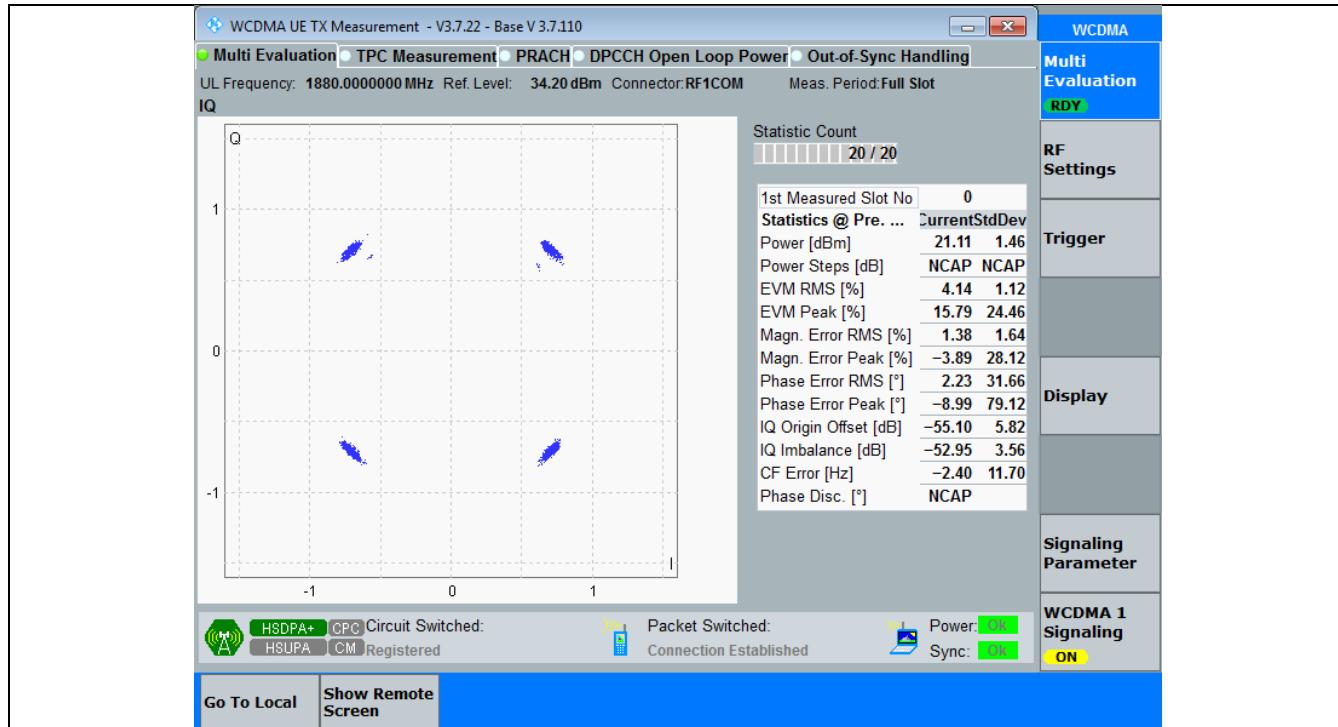


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4. 99% & 26dB Bandwidth

4.1 Band2_OBW

4.1.1 Test Result

ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset			
NTNV	RMC	12.2kbps RMC	1852.4	4.160	Pass
			1880	4.161	Pass
			1907.6	4.175	Pass
	HSDPA	Subtest 1	1852.4	4.171	Pass
			1880	4.167	Pass
			1907.6	4.162	Pass
	HSUPA	Subtest 1	1852.4	4.167	Pass
			1880	4.152	Pass
			1907.6	4.147	Pass

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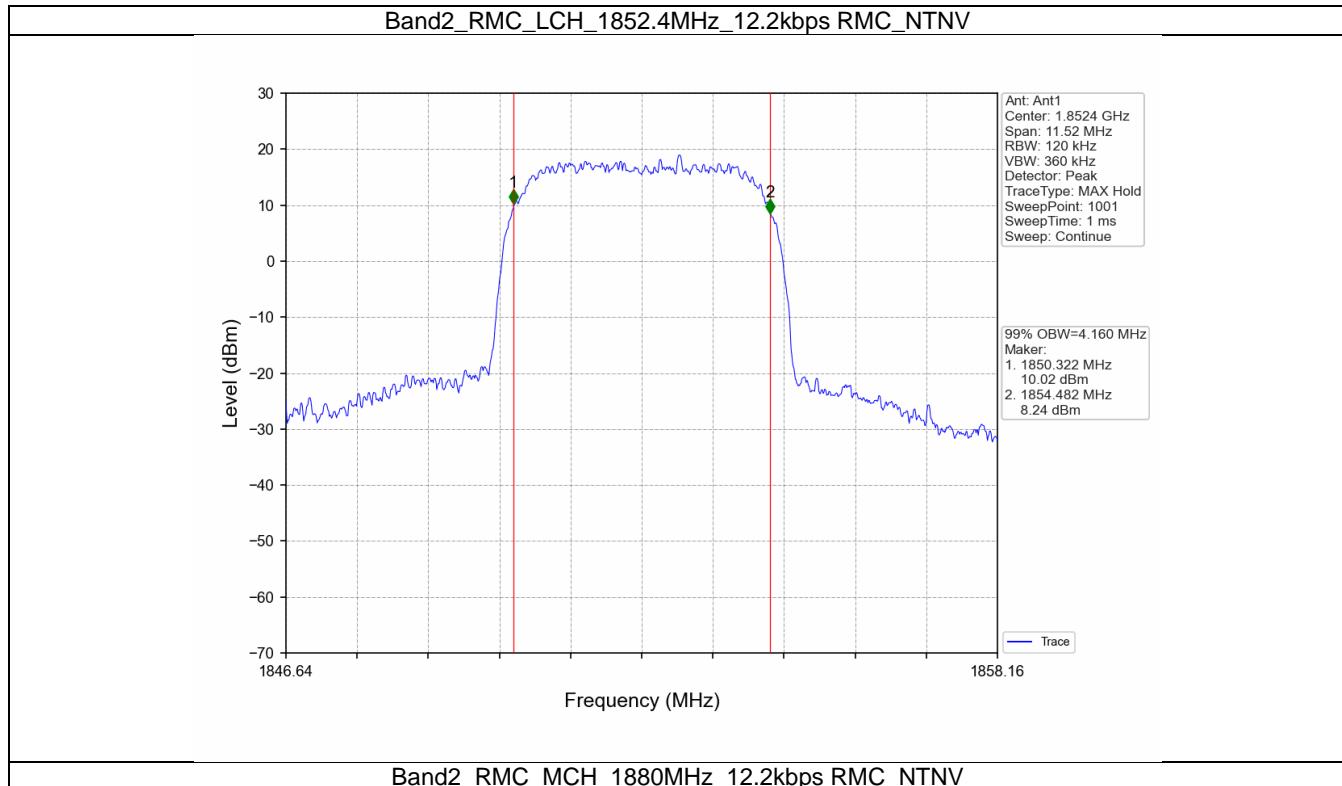
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4.1.2 Test Graph



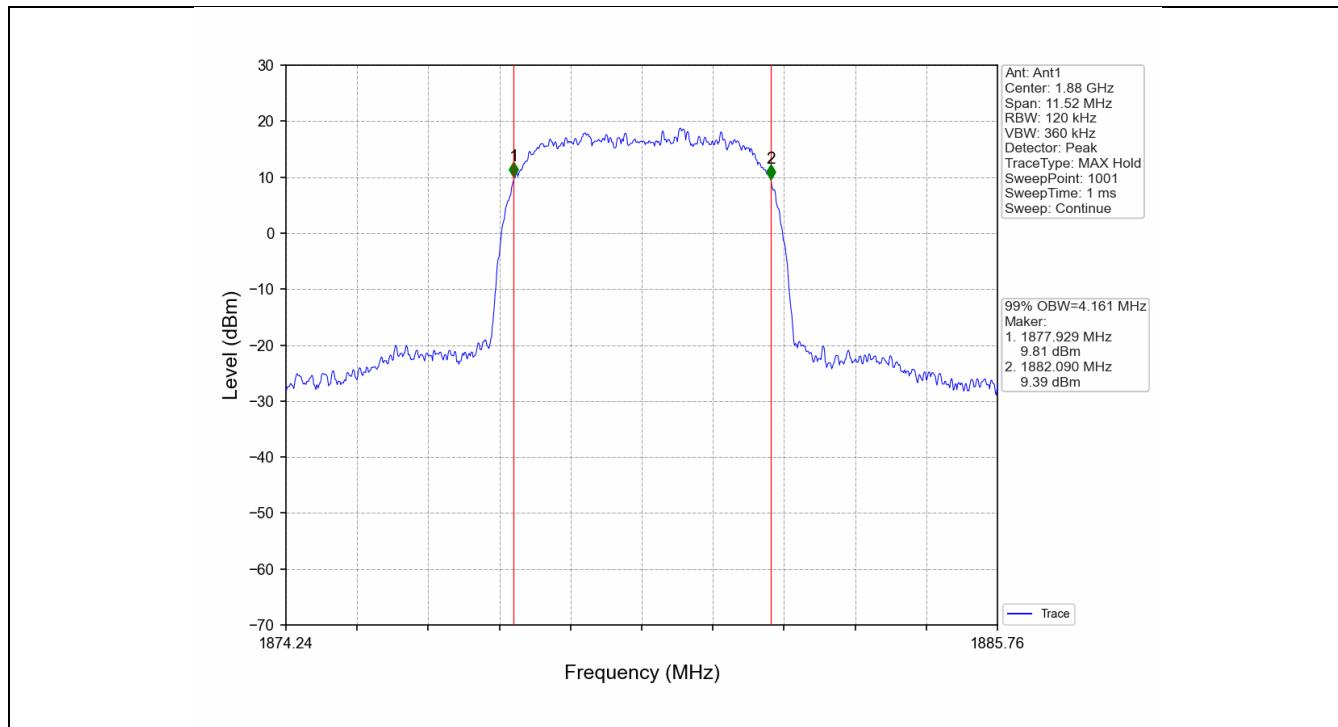
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Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV

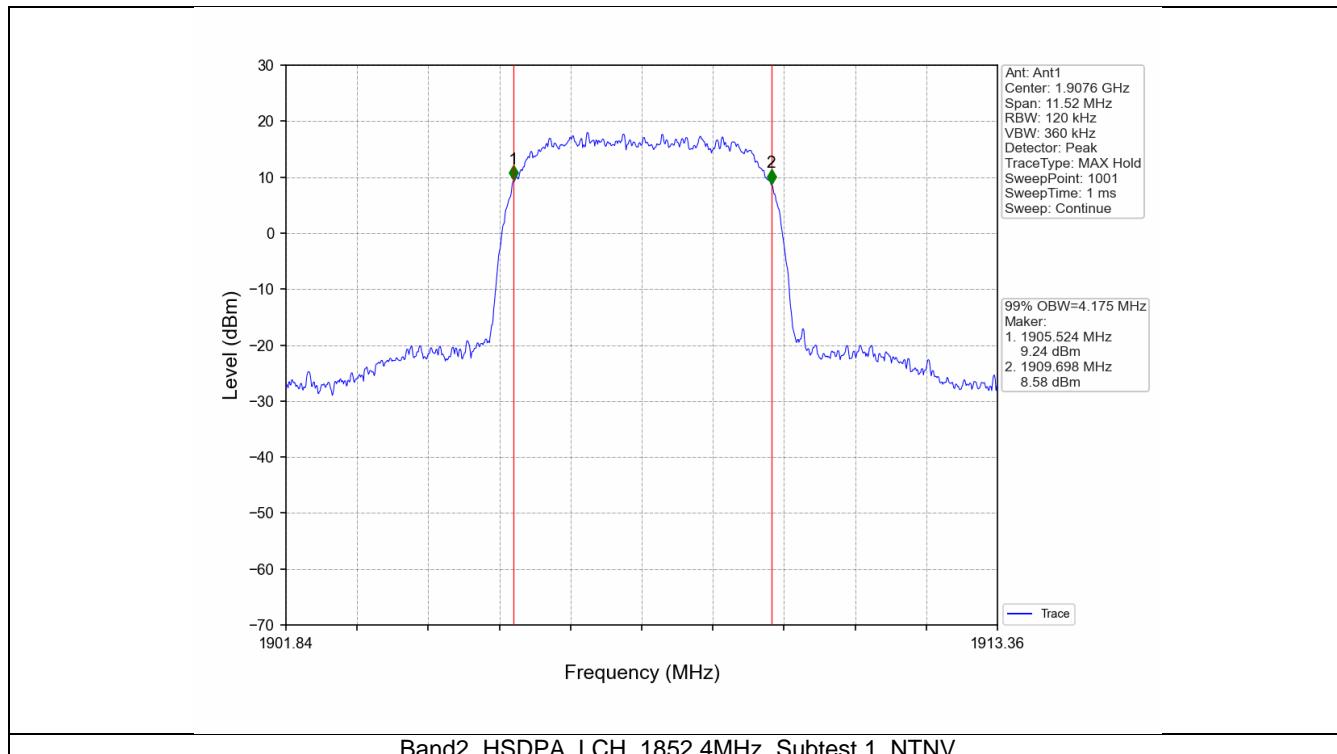
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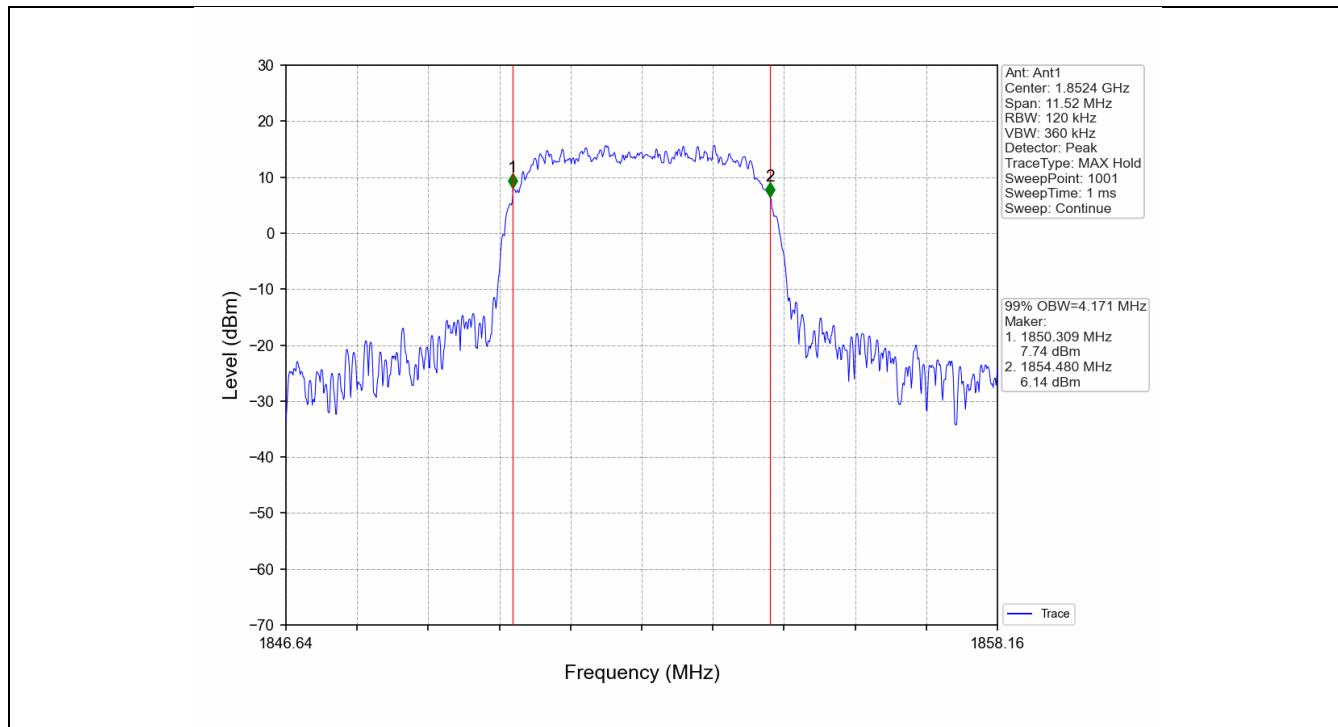
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Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV

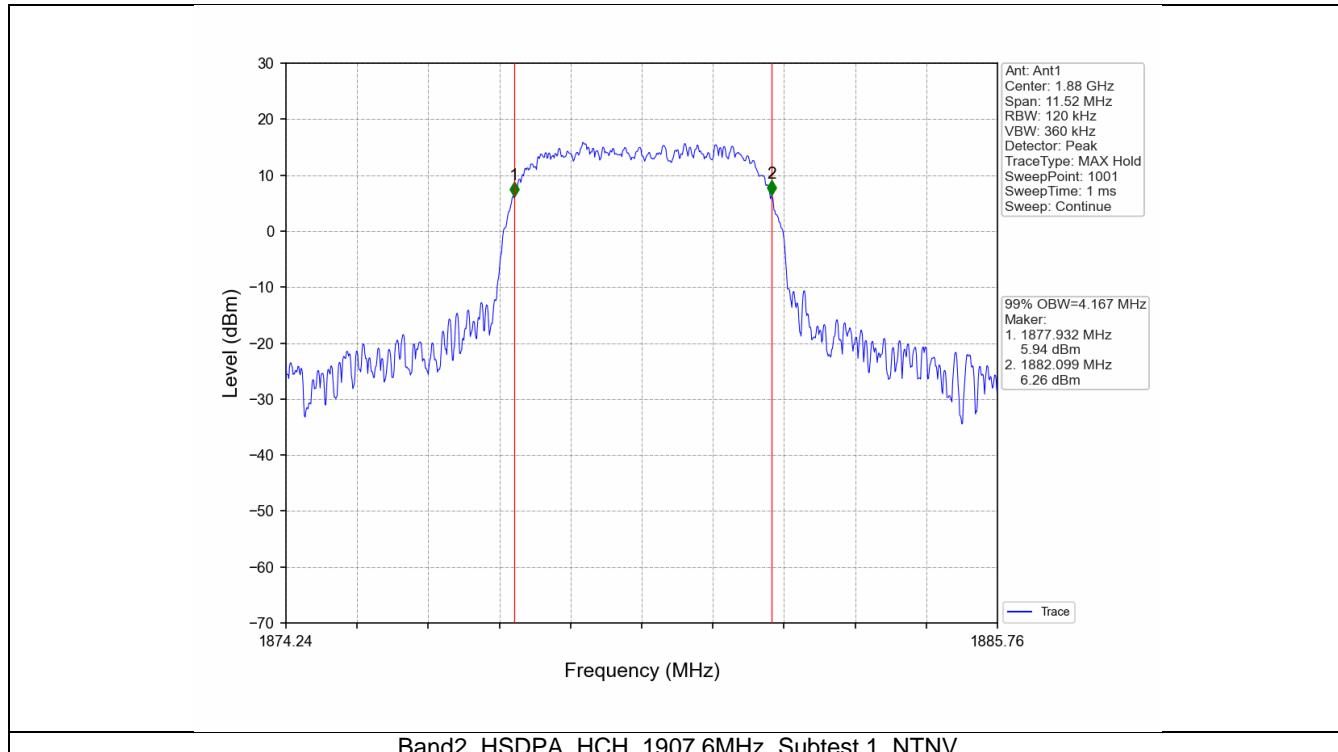


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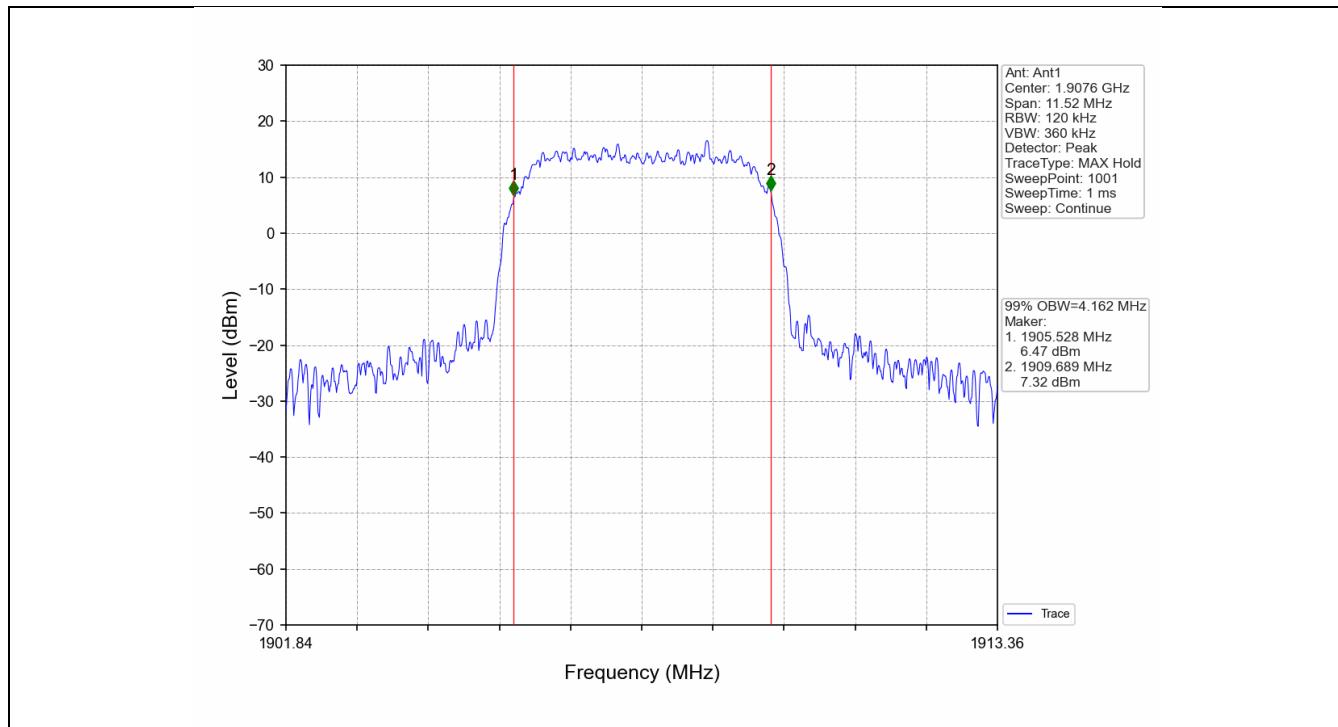
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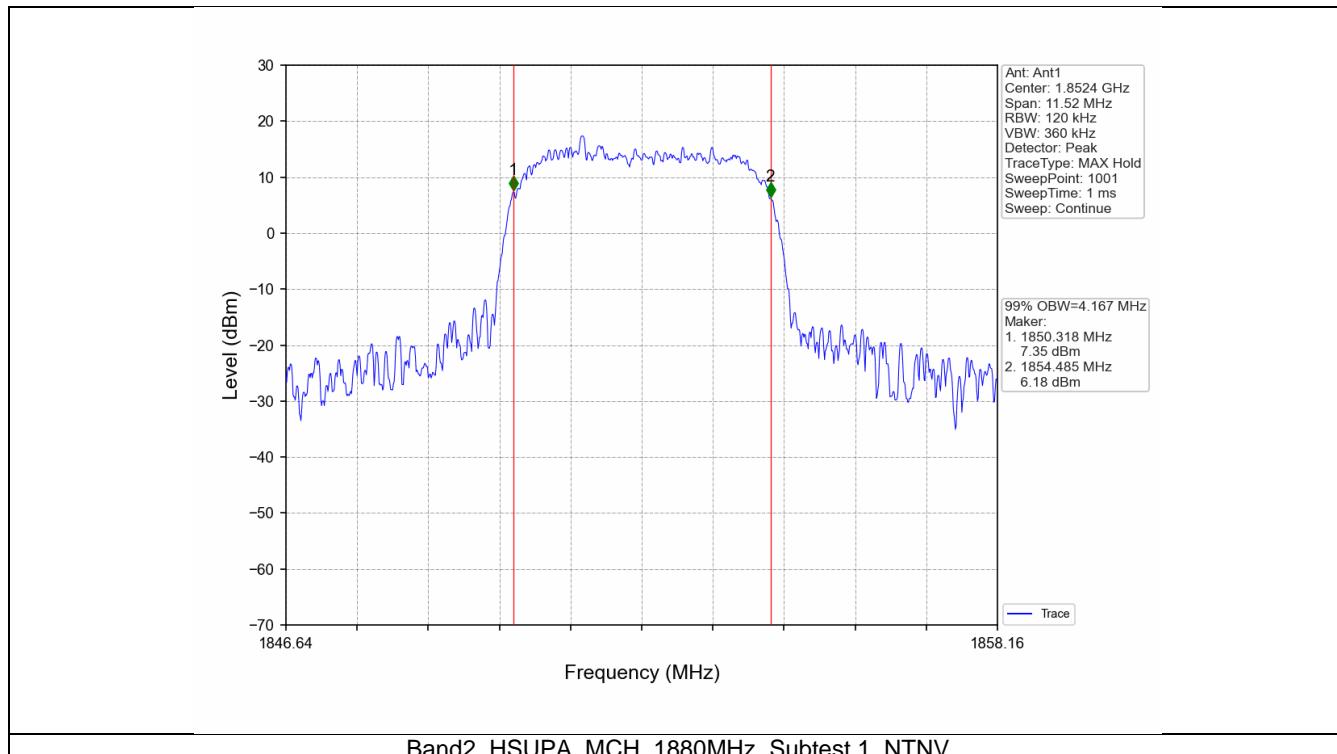
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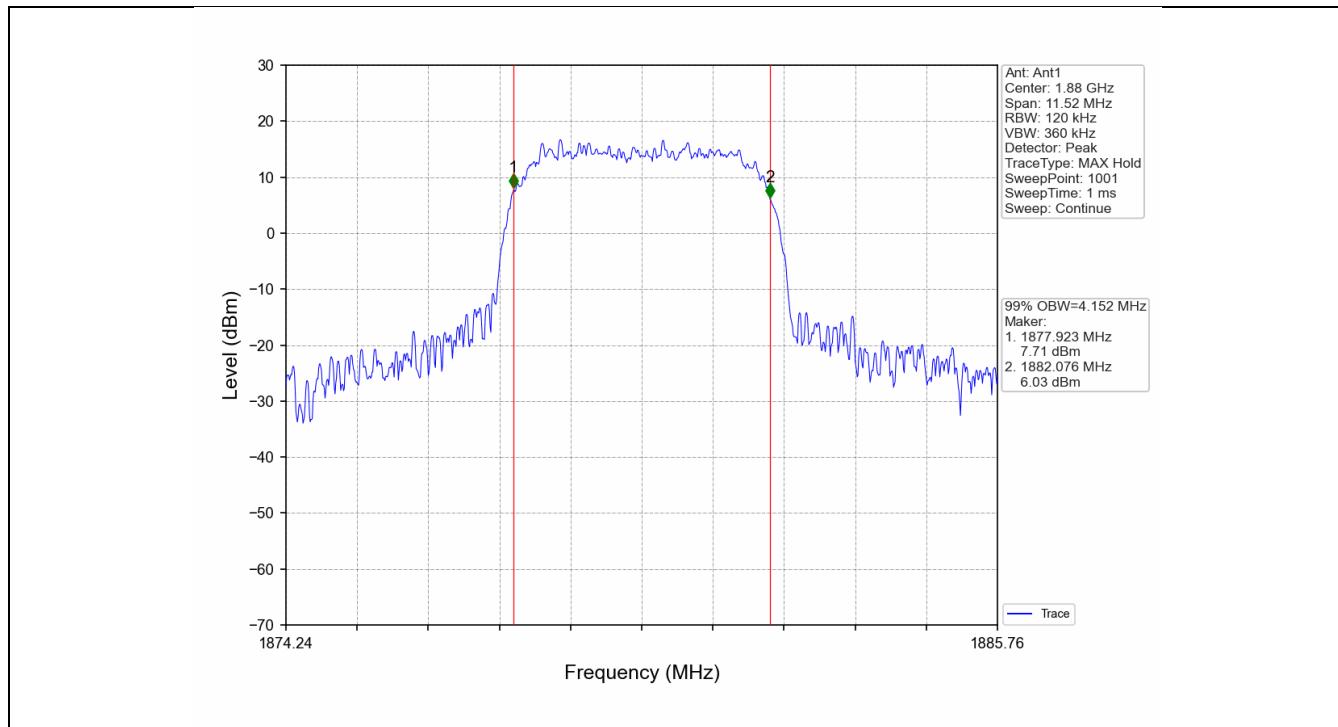
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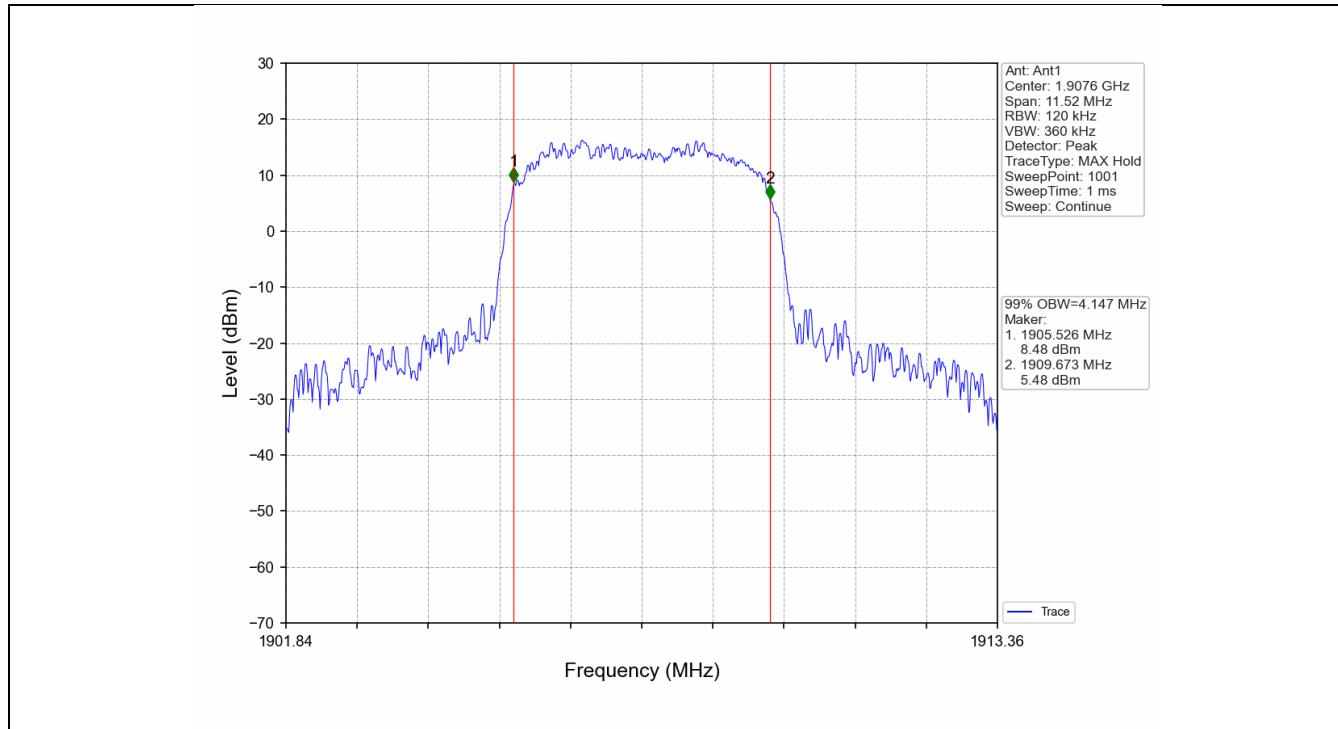
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4.2 Band2_XDB

4.2.1 Test Result

ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset			
	NTNV	RMC	1852.4	4.707	
			1880	4.718	Pass
			1907.6	4.726	Pass
		HSDPA	1852.4	4.693	Pass
			1880	4.702	Pass
			1907.6	4.708	Pass
		HSUPA	1852.4	4.682	Pass
			1880	4.693	Pass
			1907.6	4.692	Pass

4.2.2 Test Graph

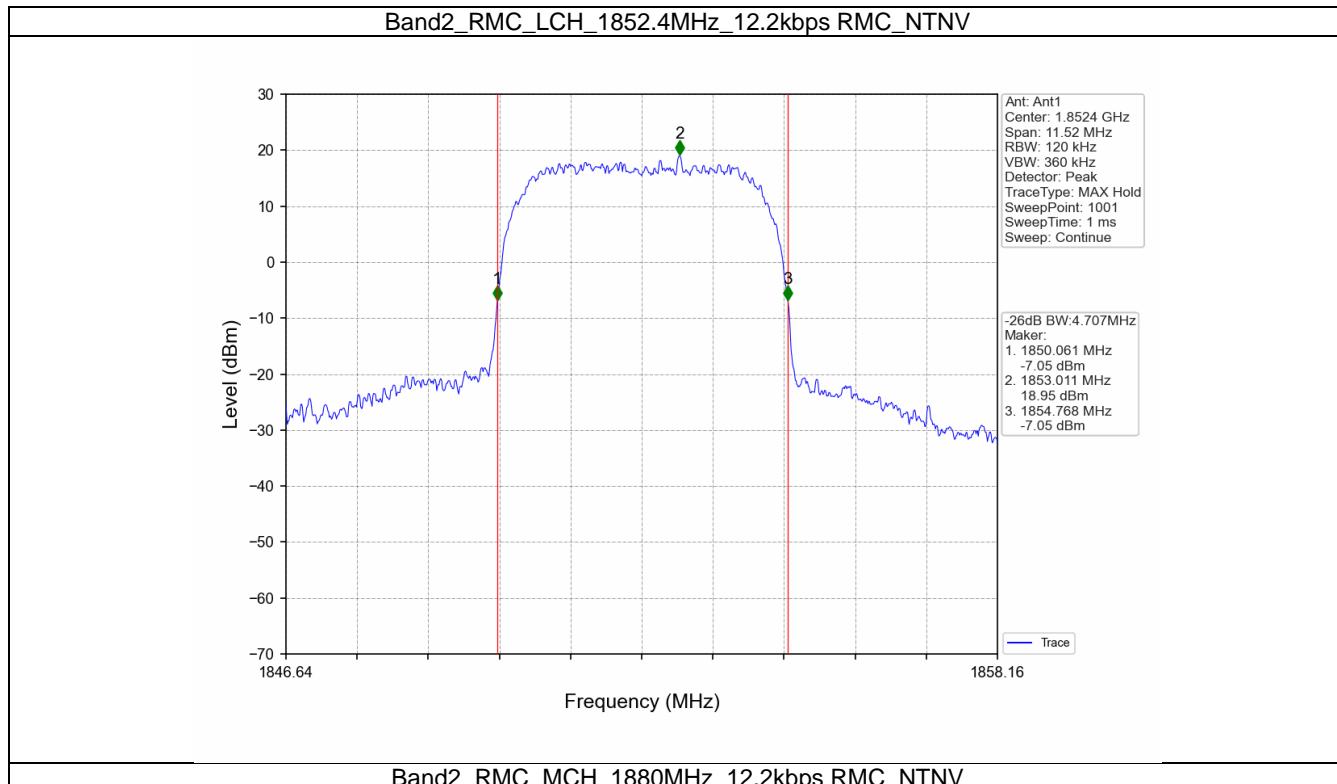


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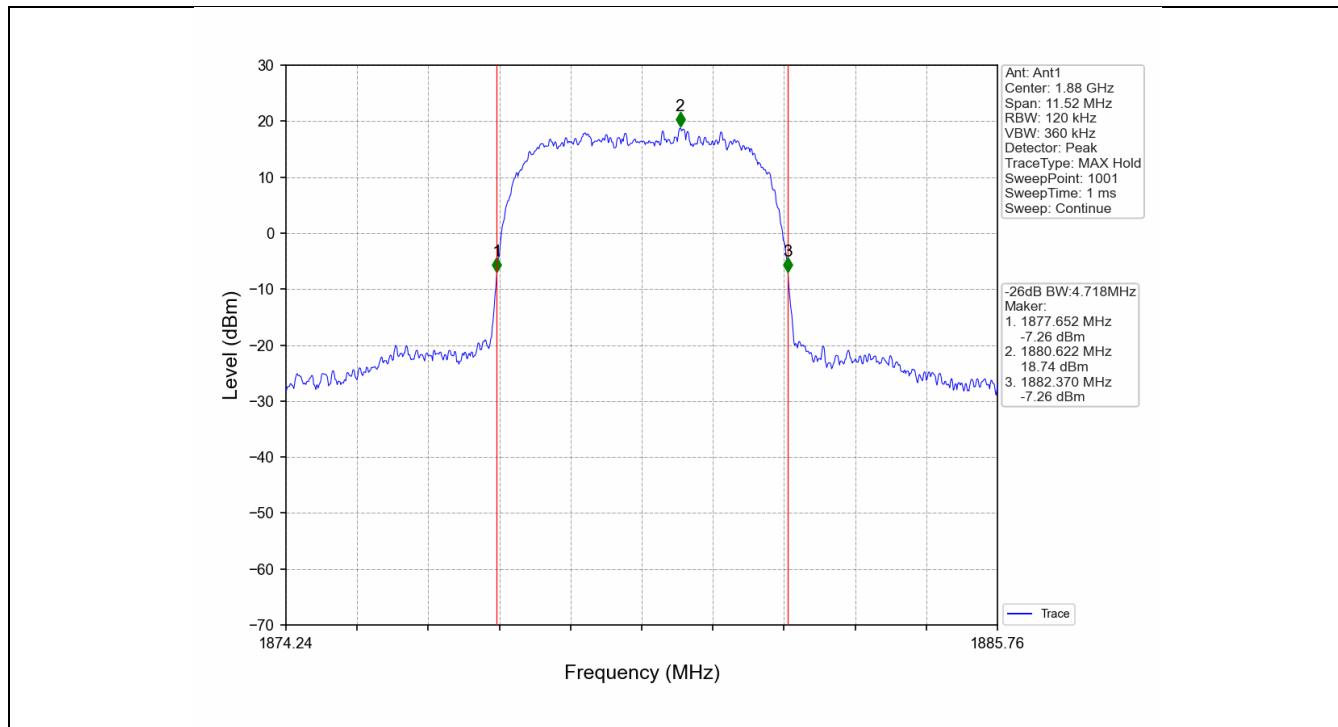
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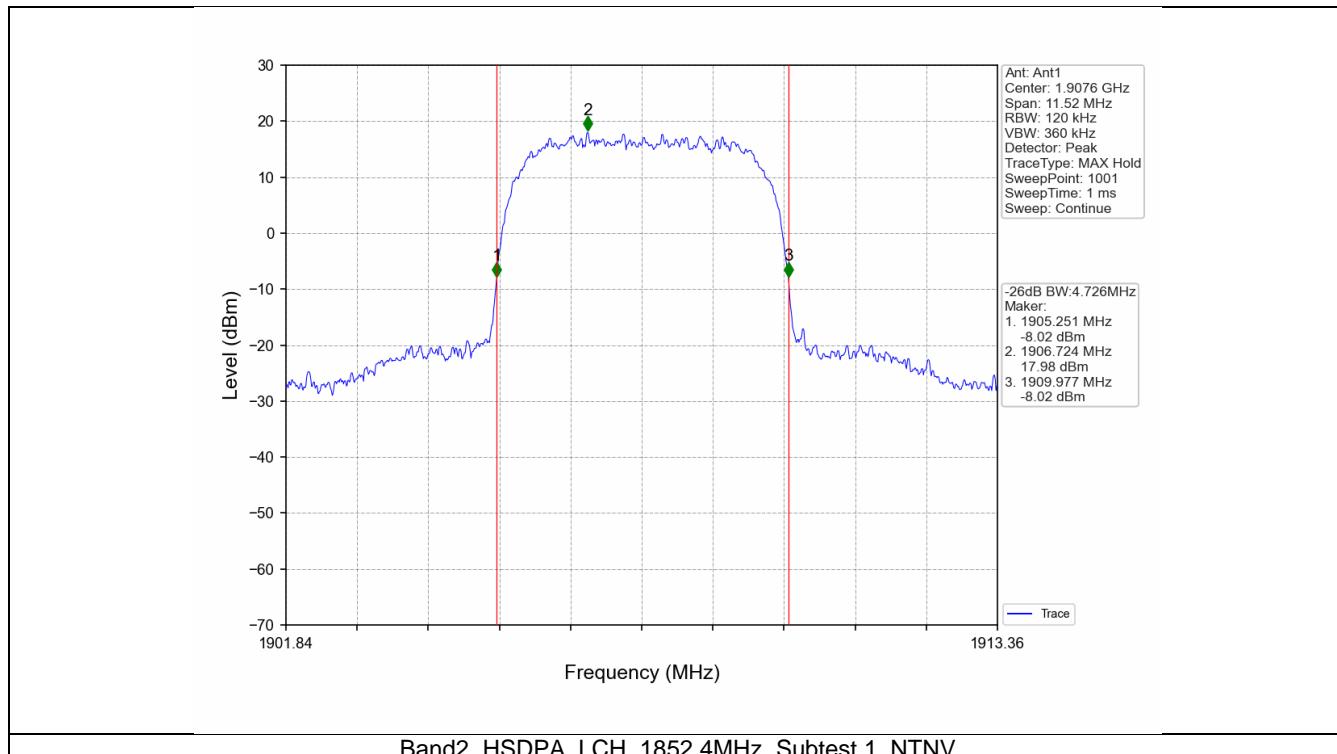


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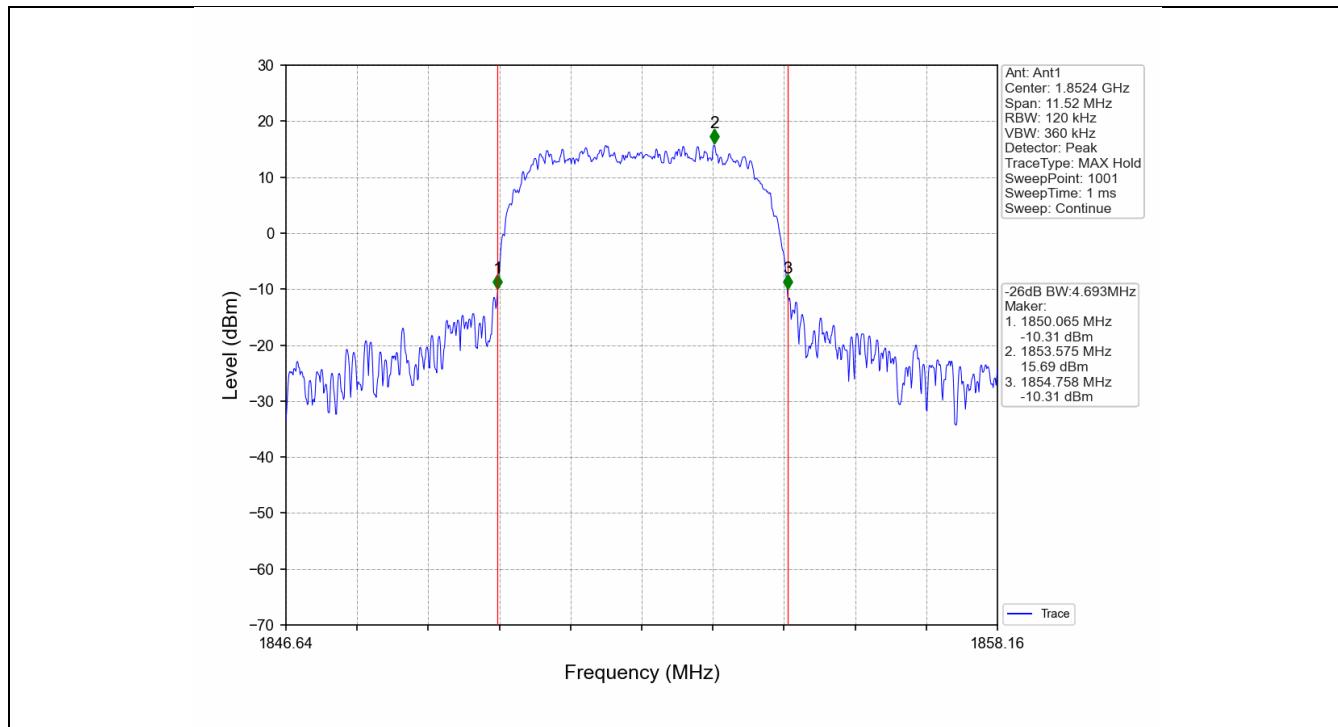
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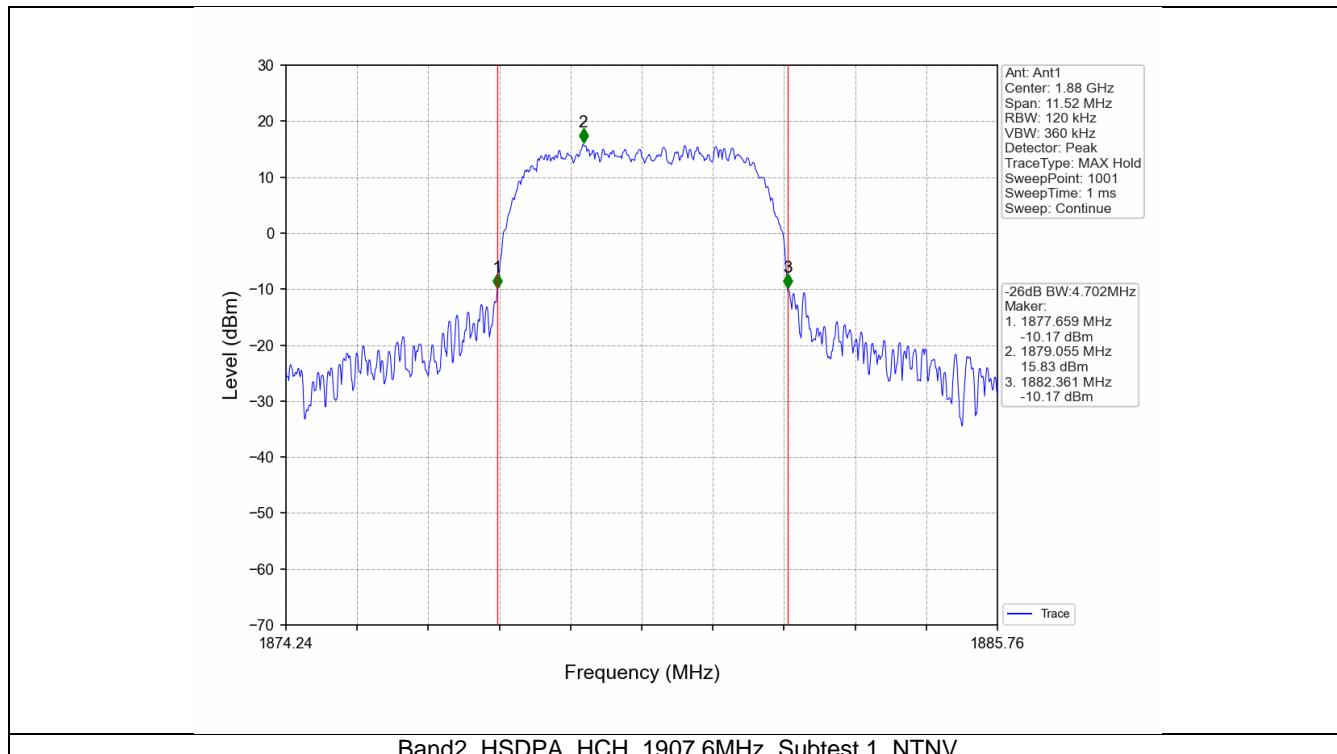


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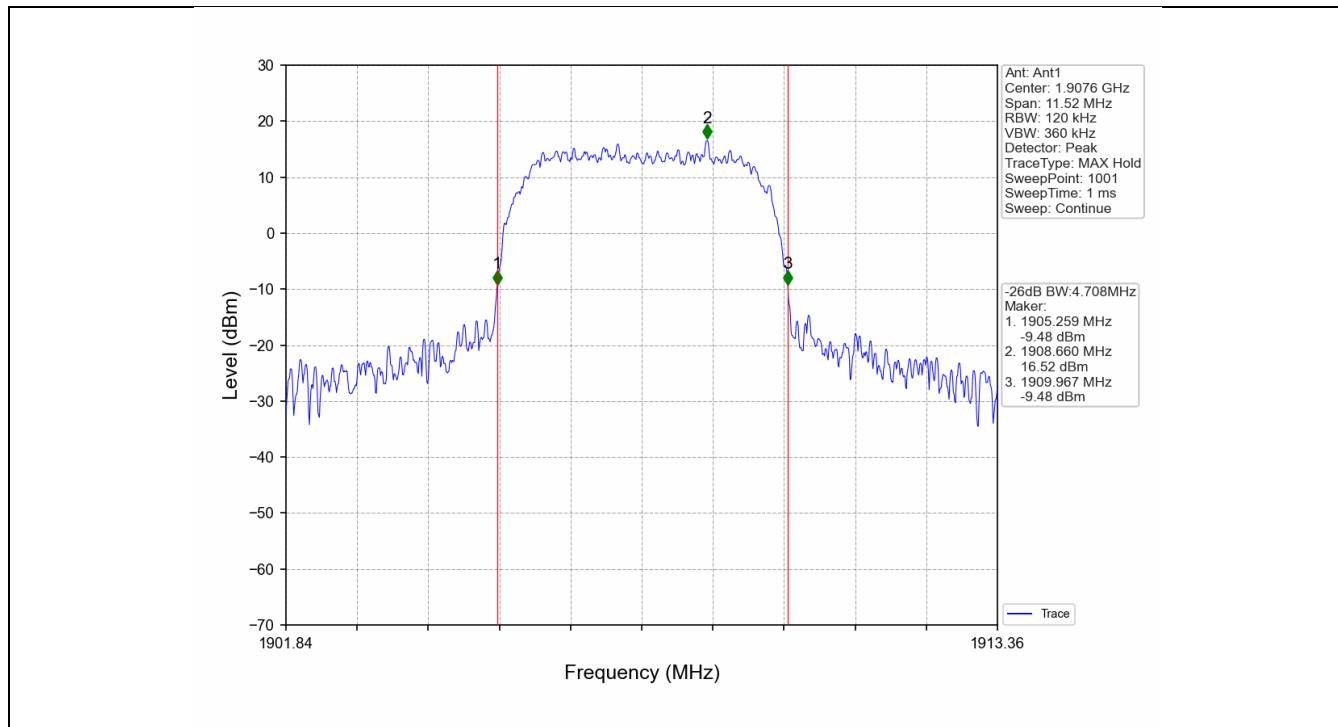
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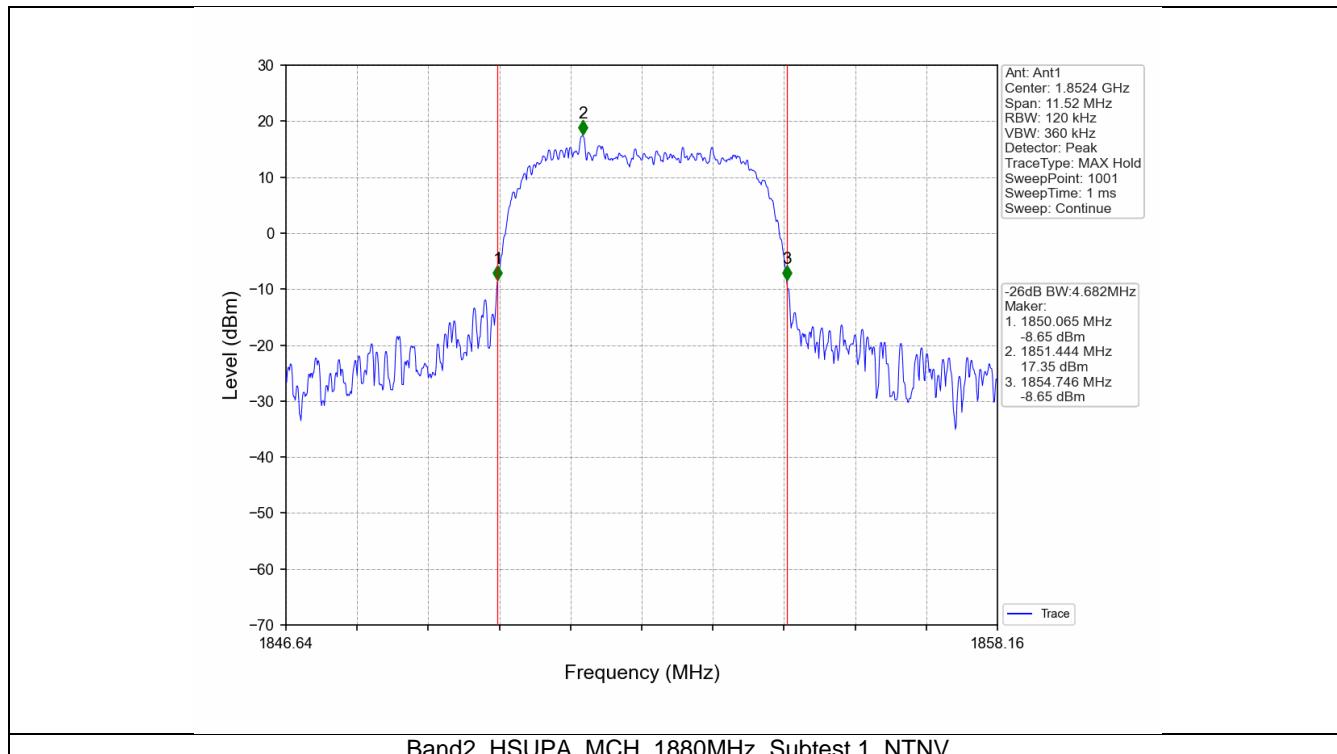
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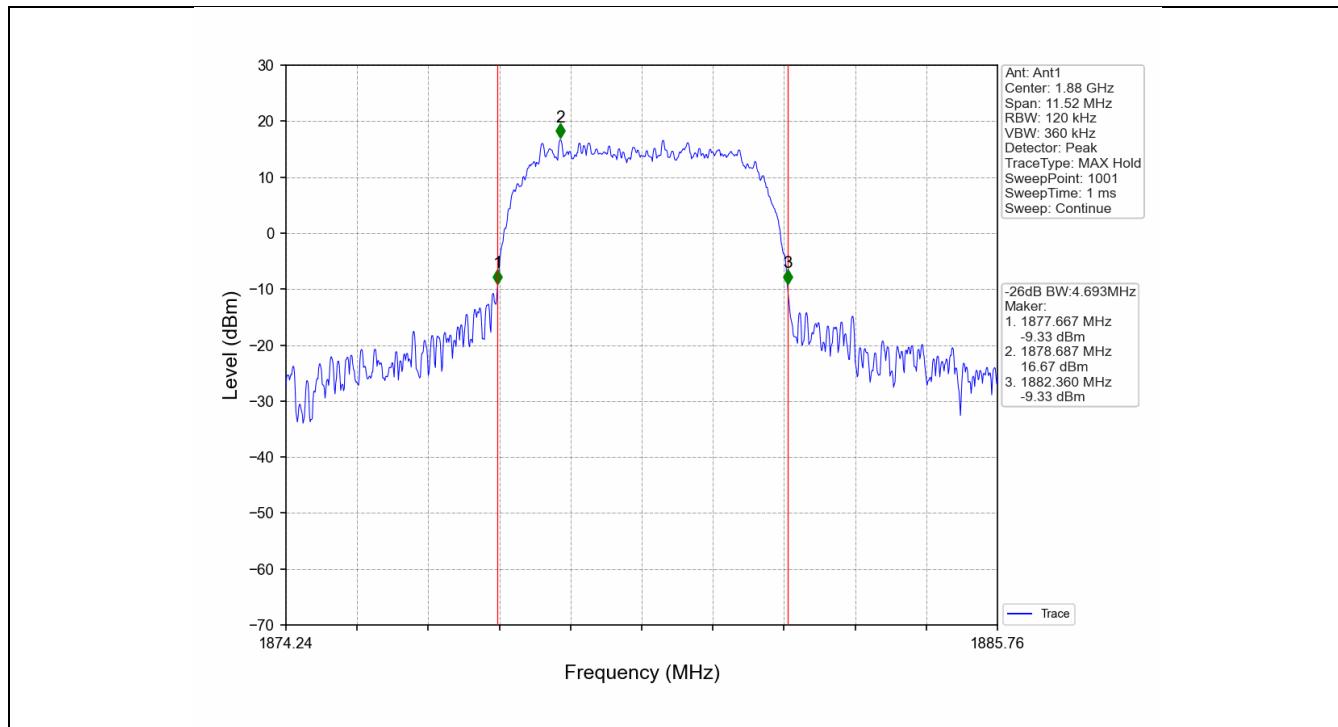
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Band2_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV

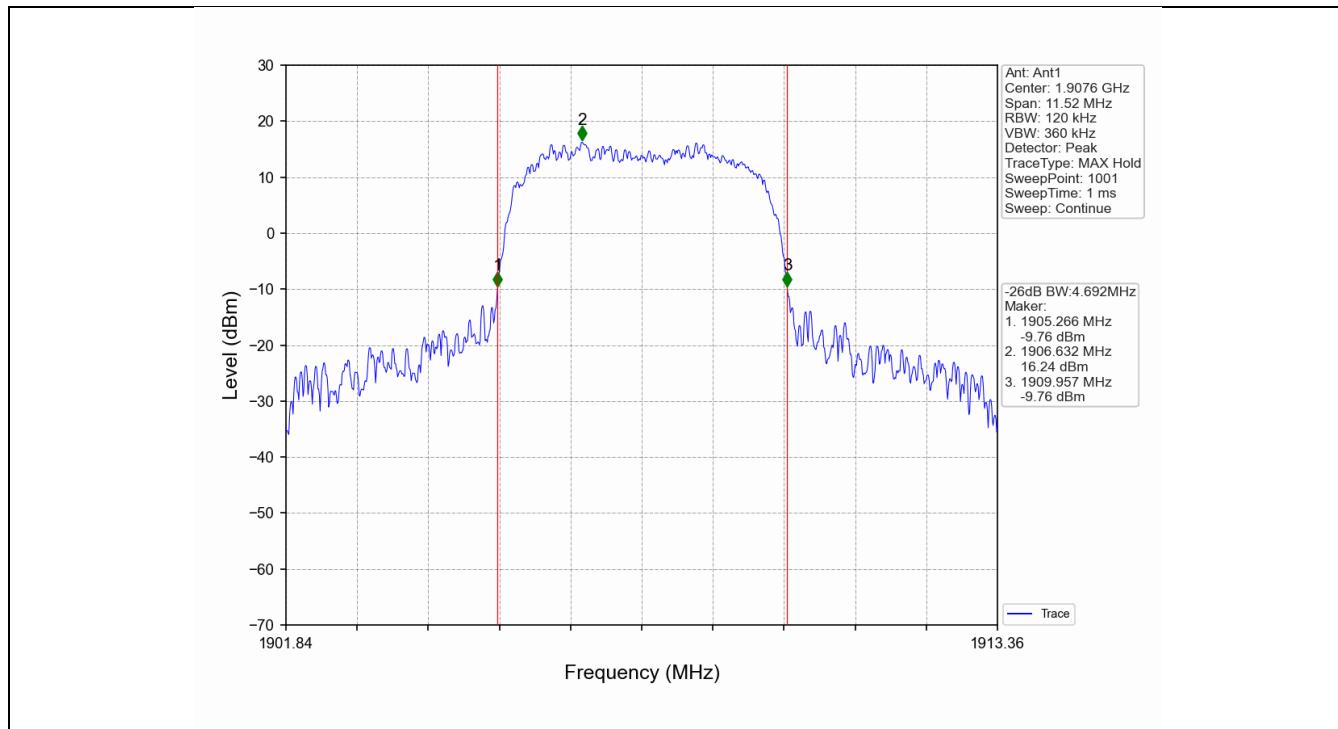


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5. Peak-Average Ratio

5.1 Band2

5.1.1 Test Result

ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict	
	Network	Subset		Result	Limit		
				1852.4	3.02	<=13	
NTNV	RMC	12.2kbps RMC	1880	2.88	<=13	Pass	
			1907.6	2.77	<=13	Pass	
			1852.4	6.20	<=13	Pass	
	HSDPA	Subtest 1	1880	6.22	<=13	Pass	
			1907.6	6.26	<=13	Pass	
			1852.4	6.22	<=13	Pass	
	HSUPA	Subtest 1	1880	6.22	<=13	Pass	
			1907.6	6.20	<=13	Pass	

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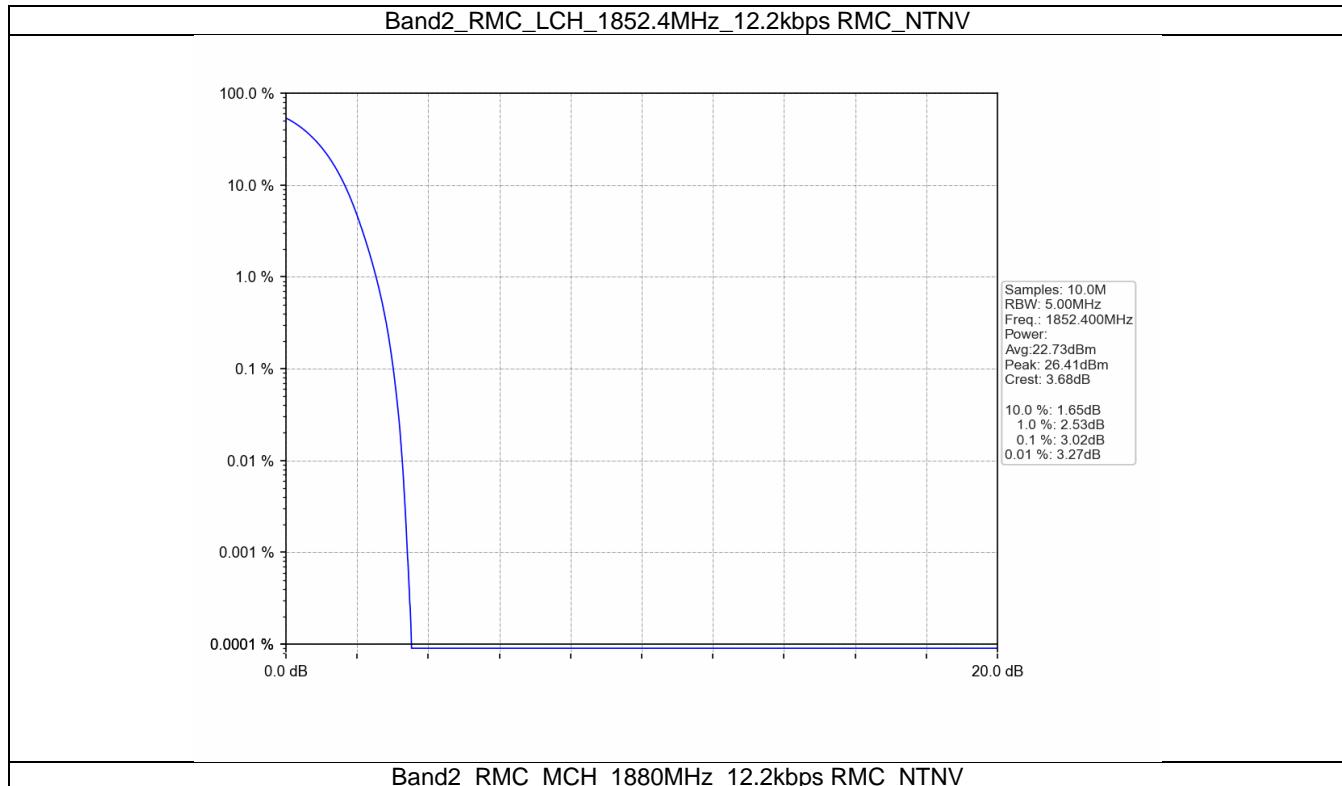
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5.1.2 Test Graph



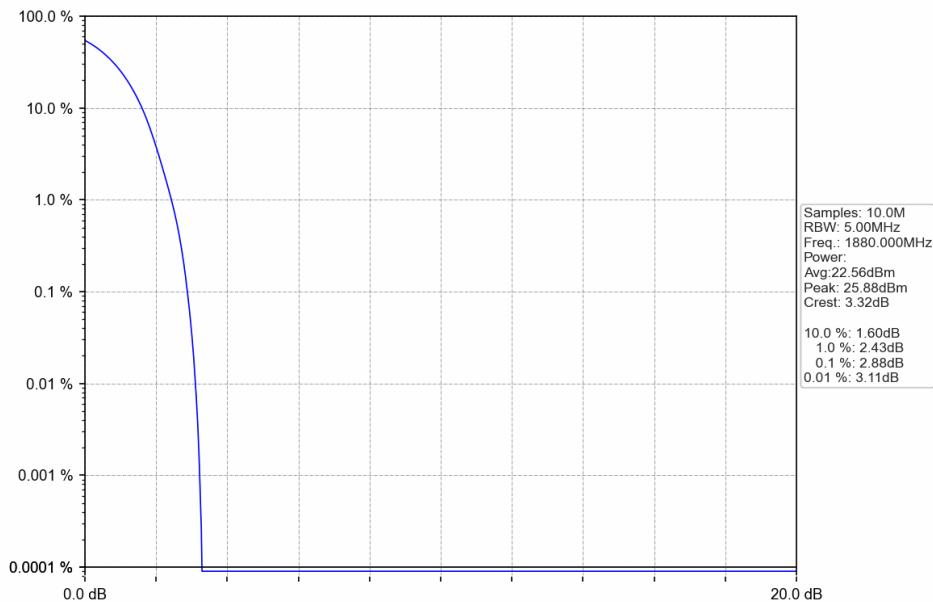
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Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV

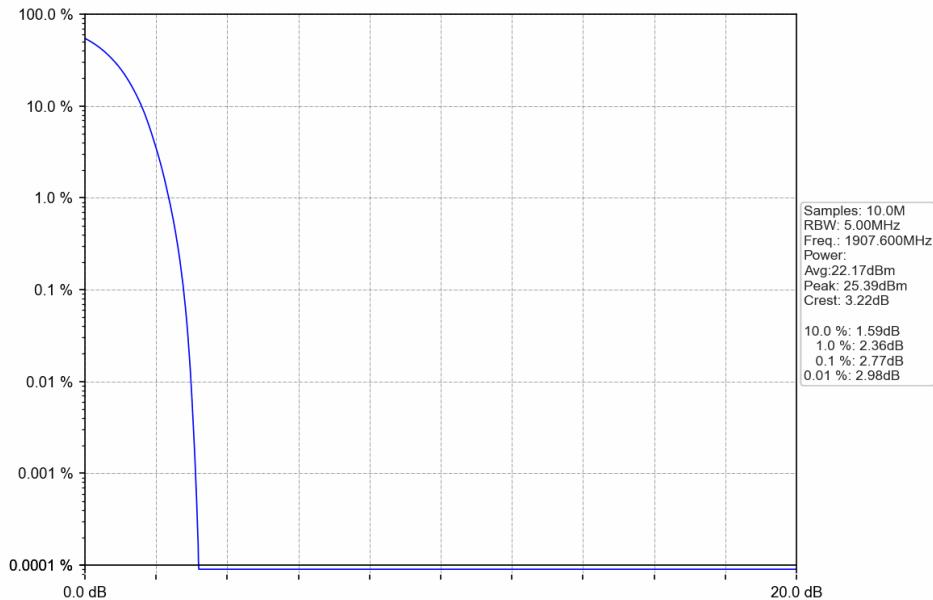
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Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV

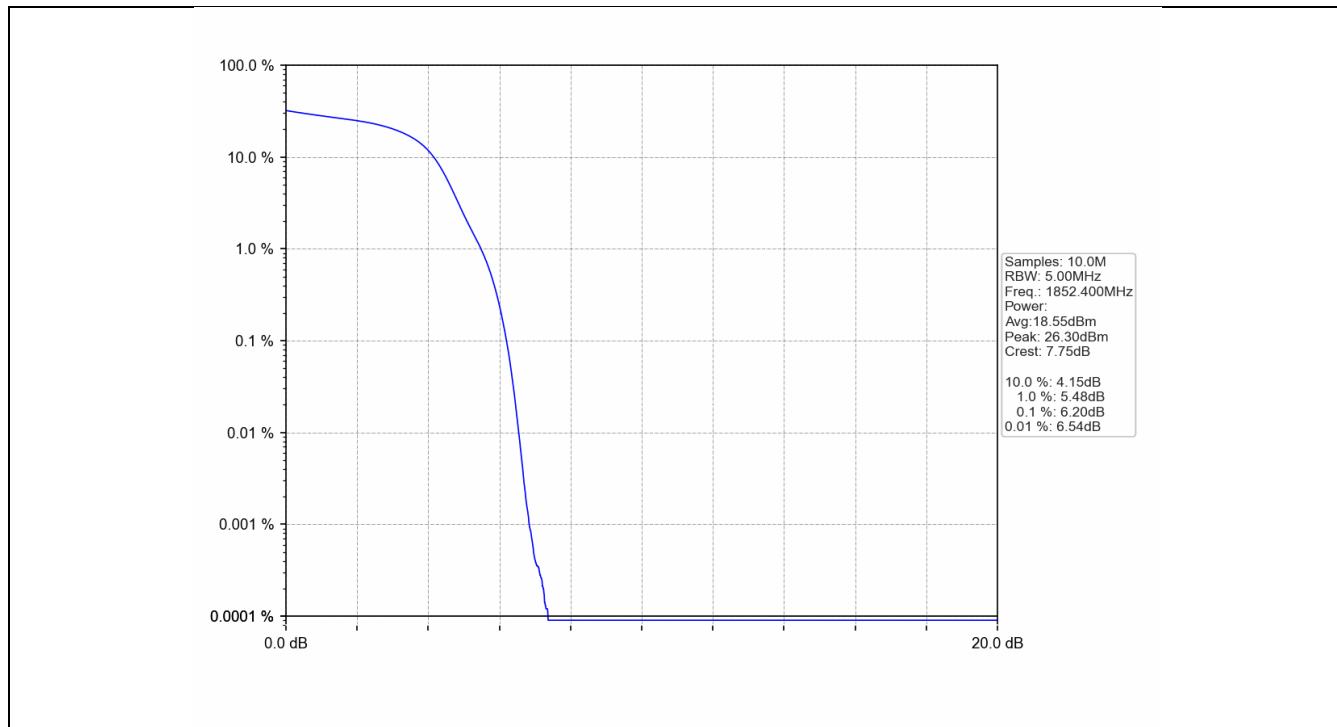
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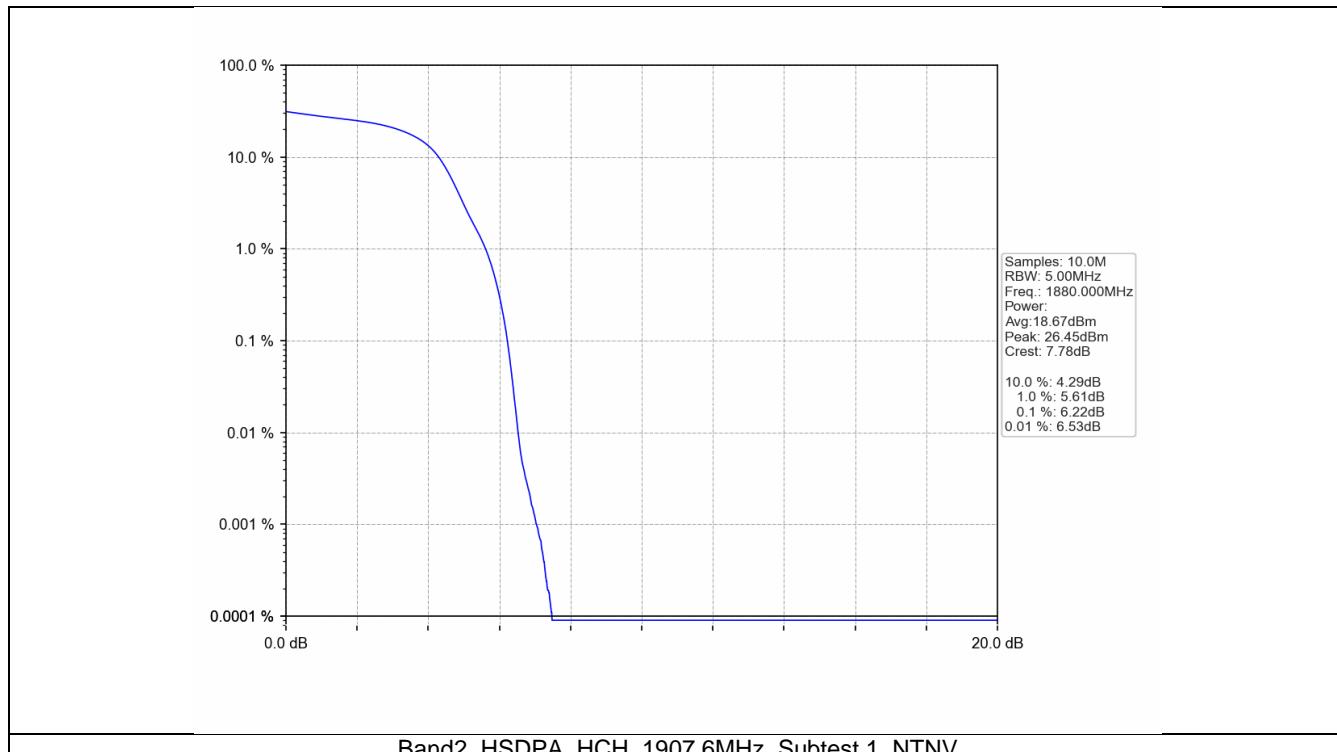
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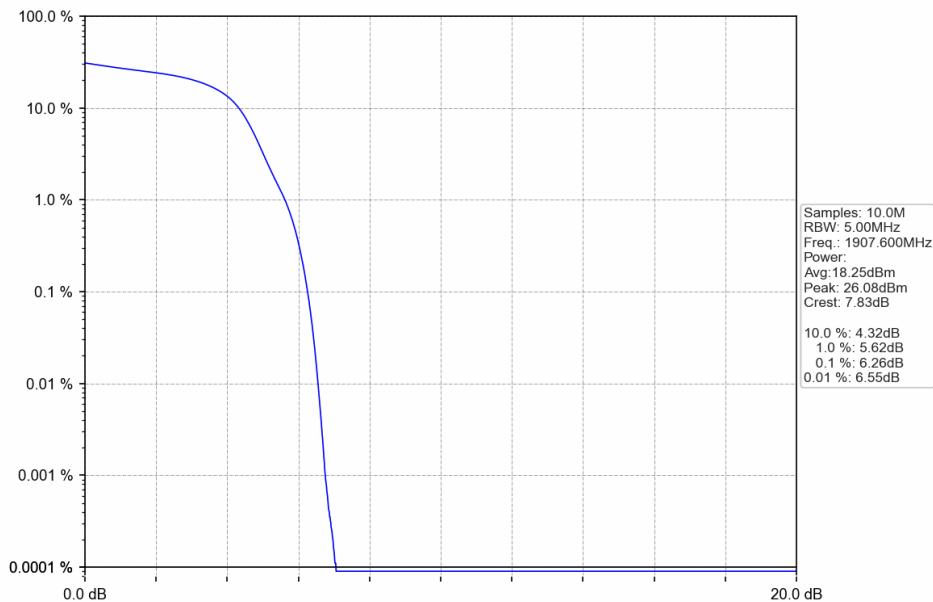
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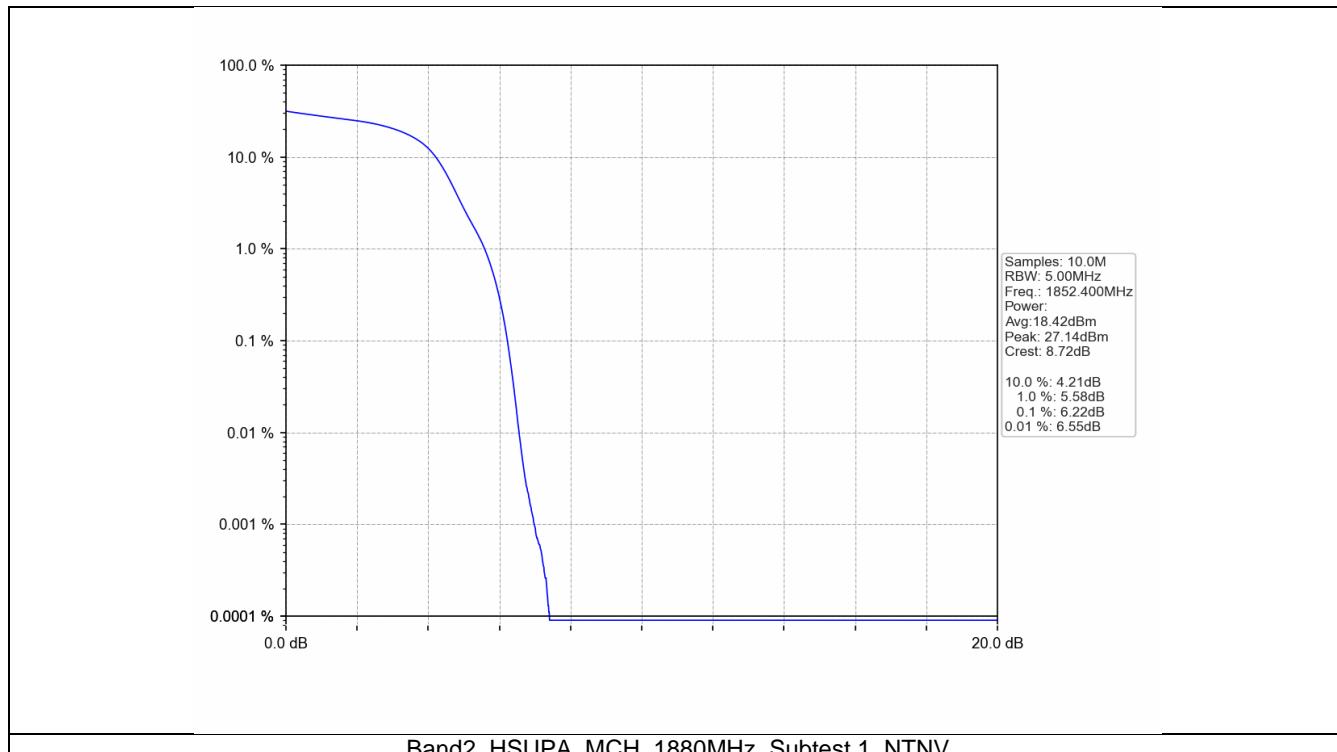
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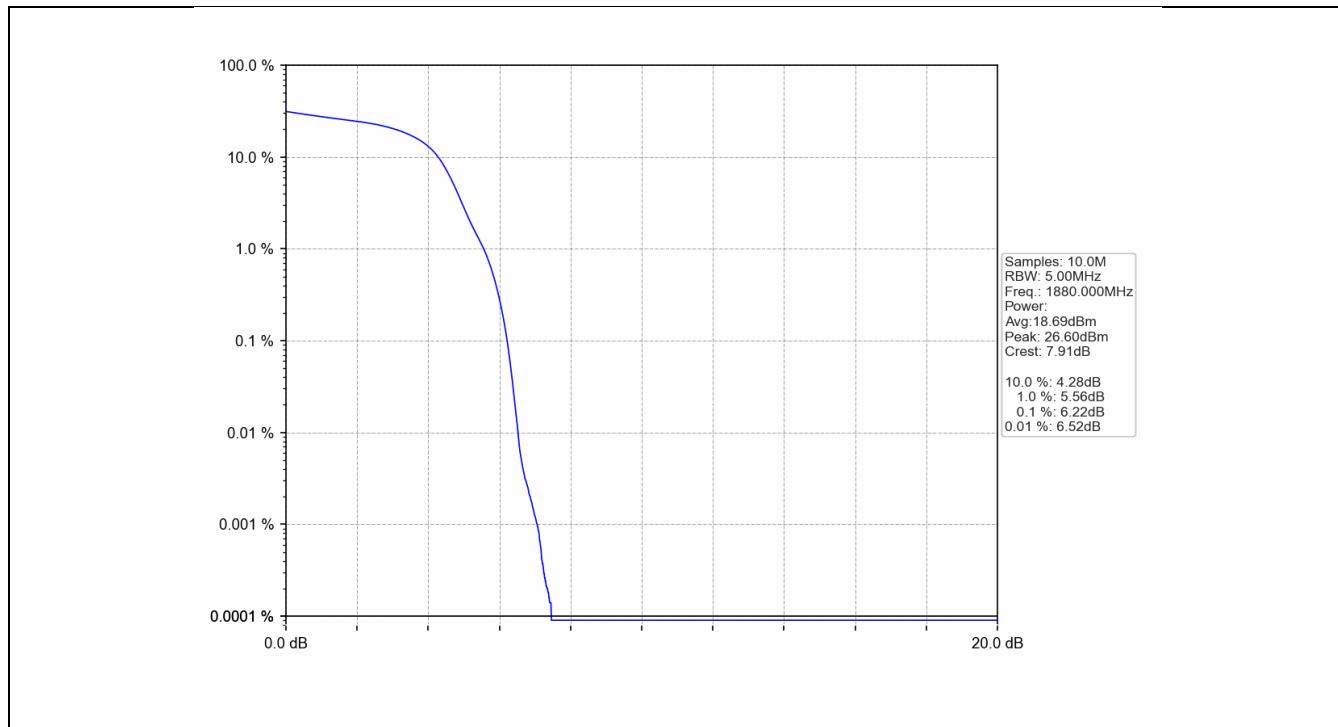
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Band2_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV

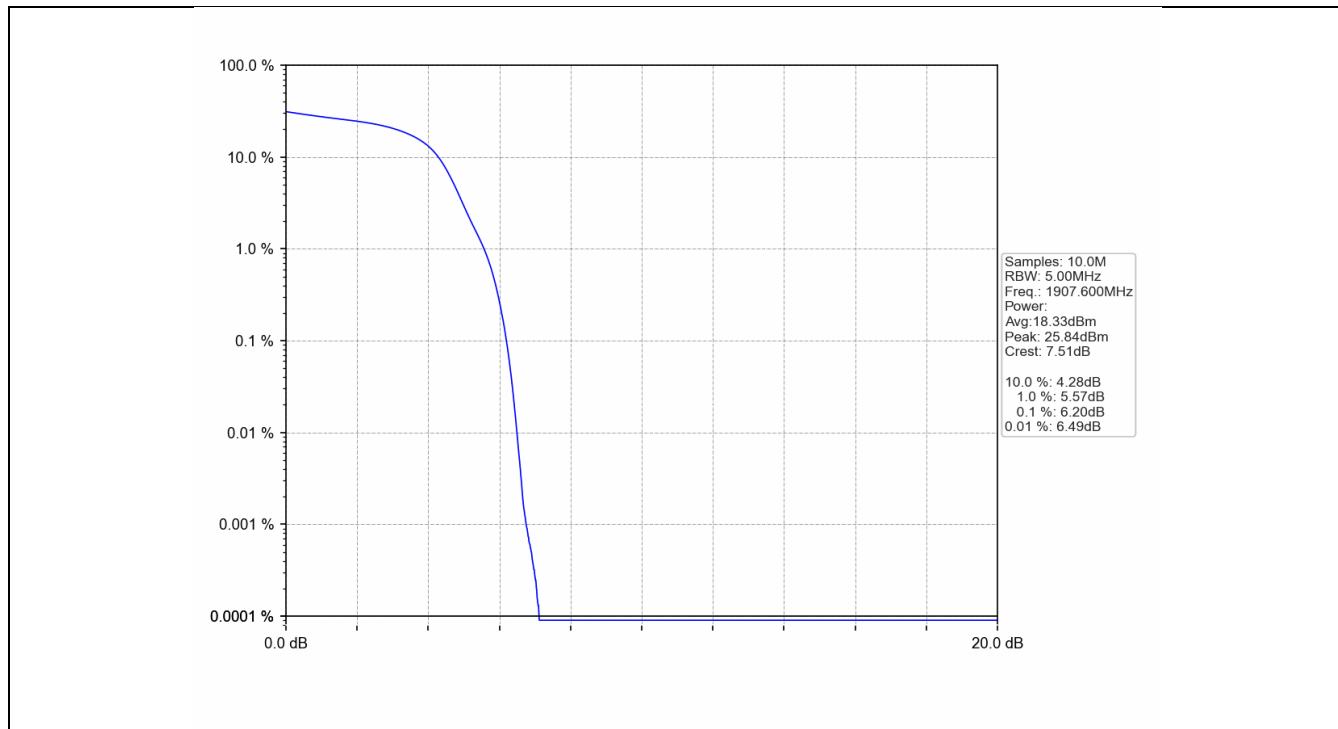
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6. Spurious Emission

6.1 Band2

6.1.1 Test Result

ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict		
	Network	Subset		Result	Limit			
				1852.4	1880			
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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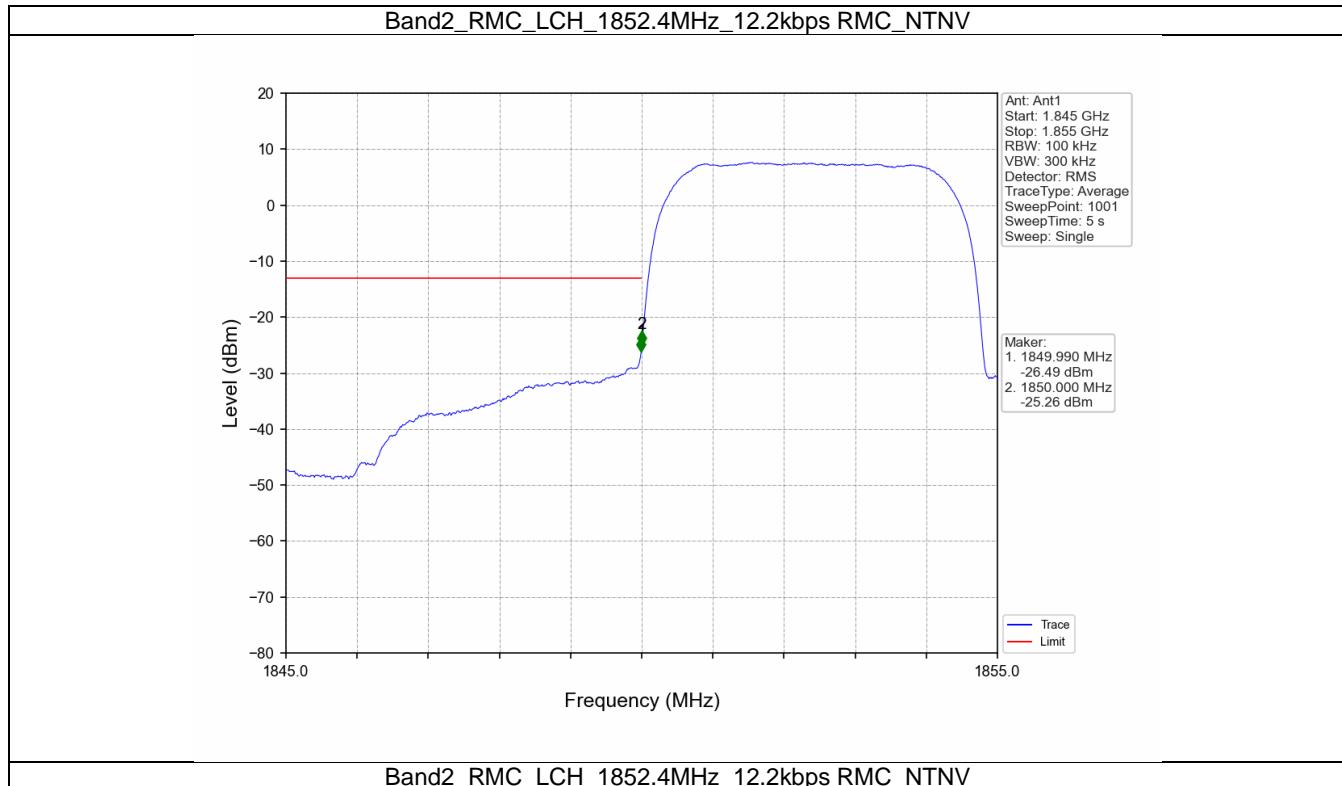
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6.1.2 Test Graph



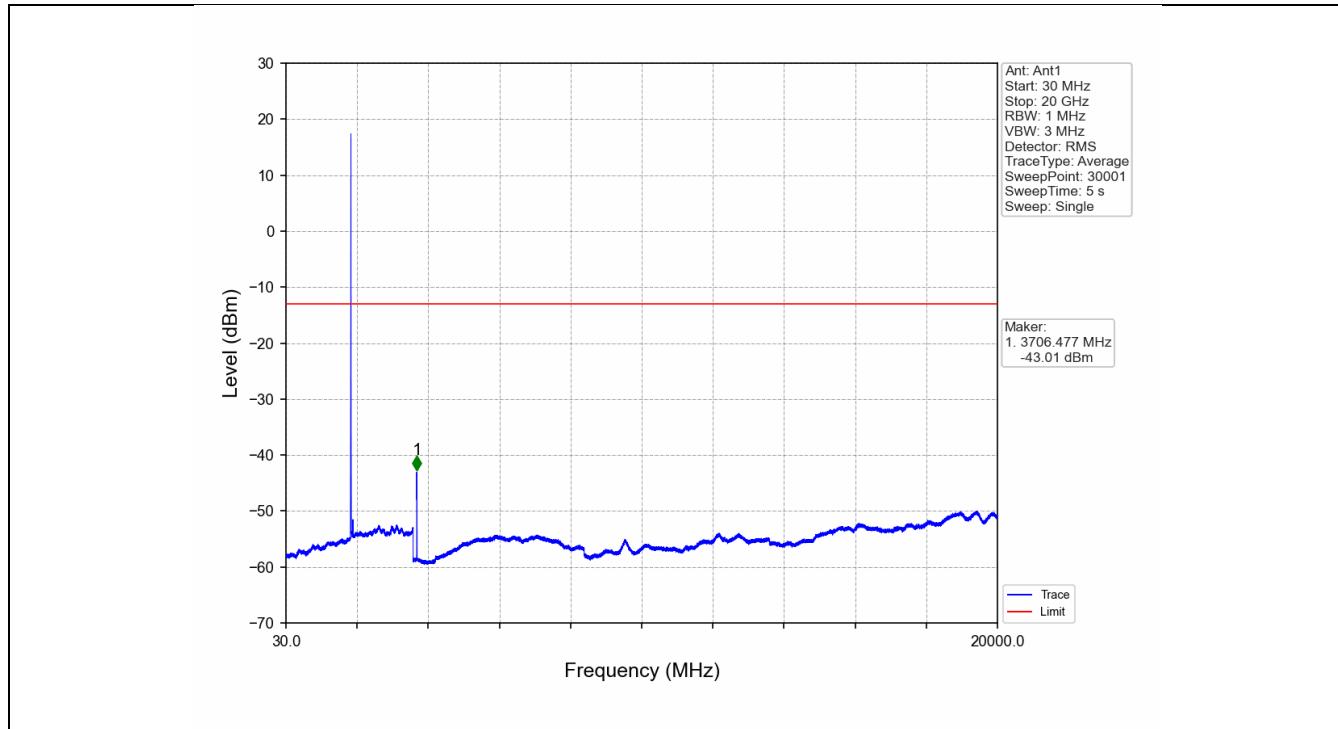
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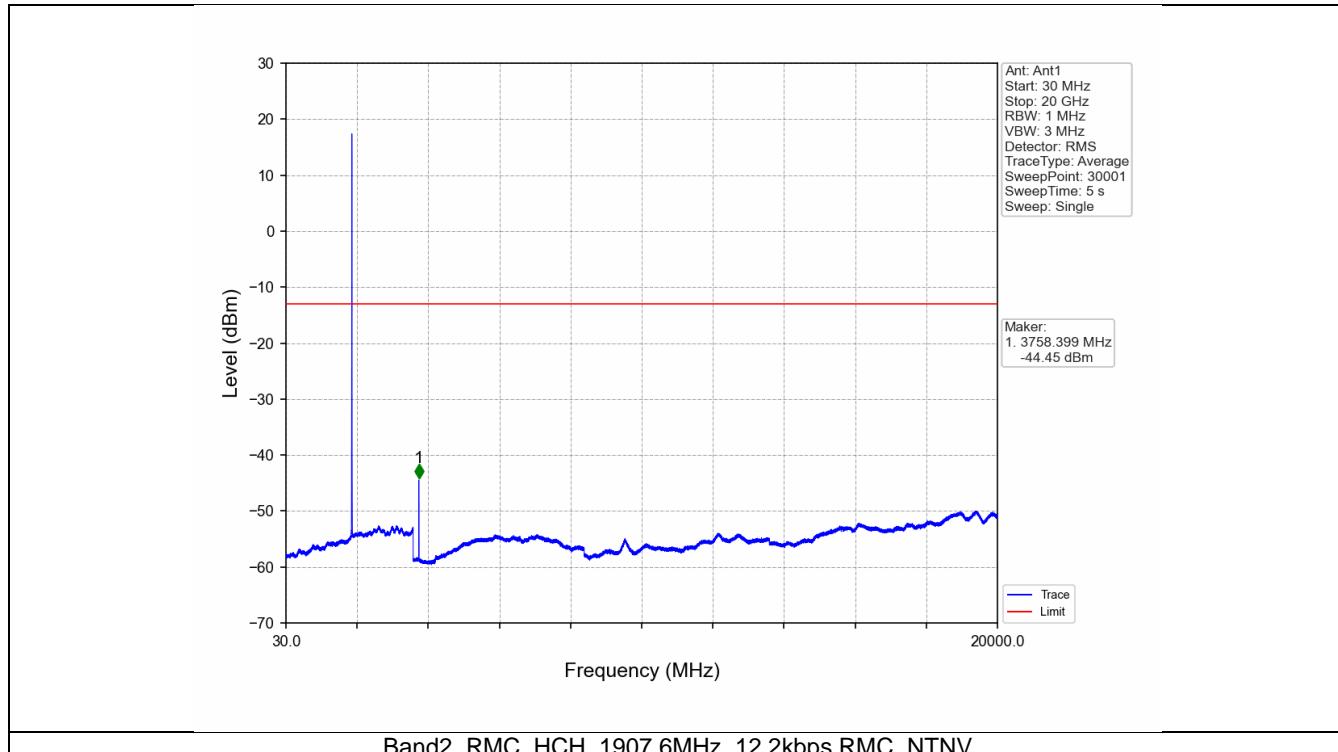


Band2_RMC_MCH_1880MHz_12.2kbps RMC_NTNV

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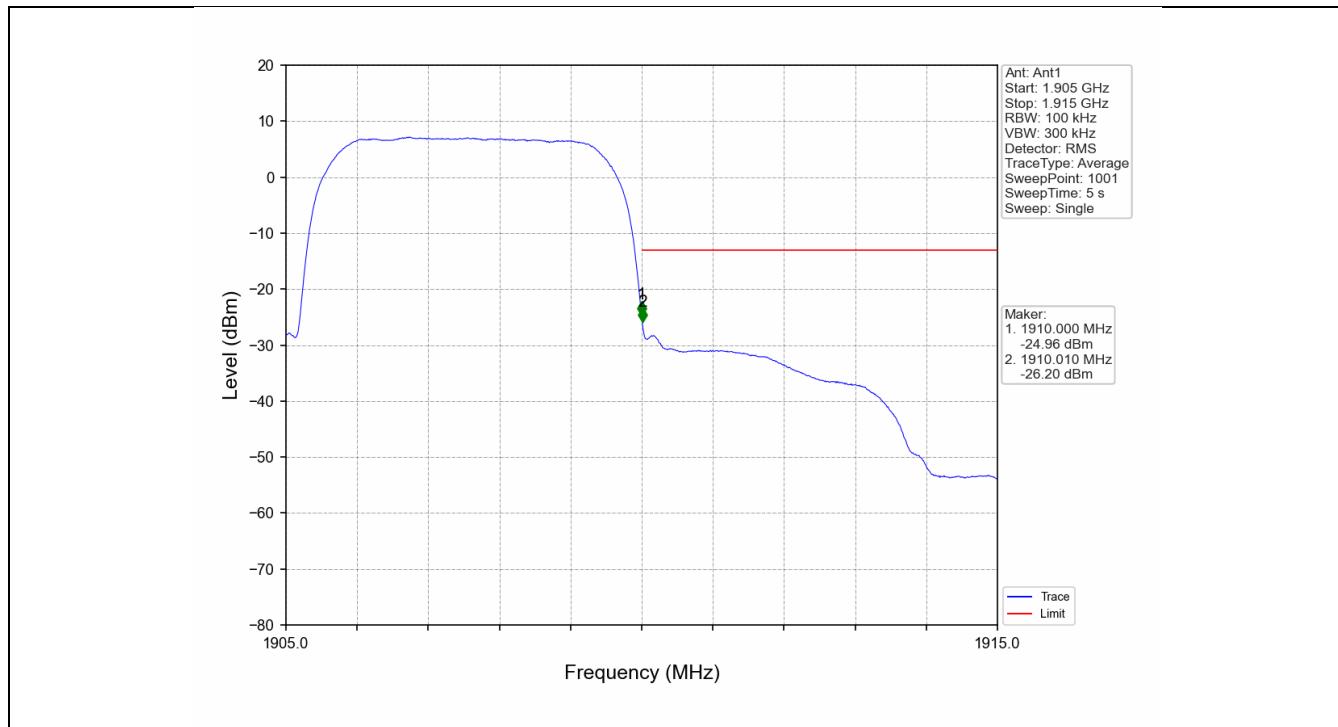
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Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV

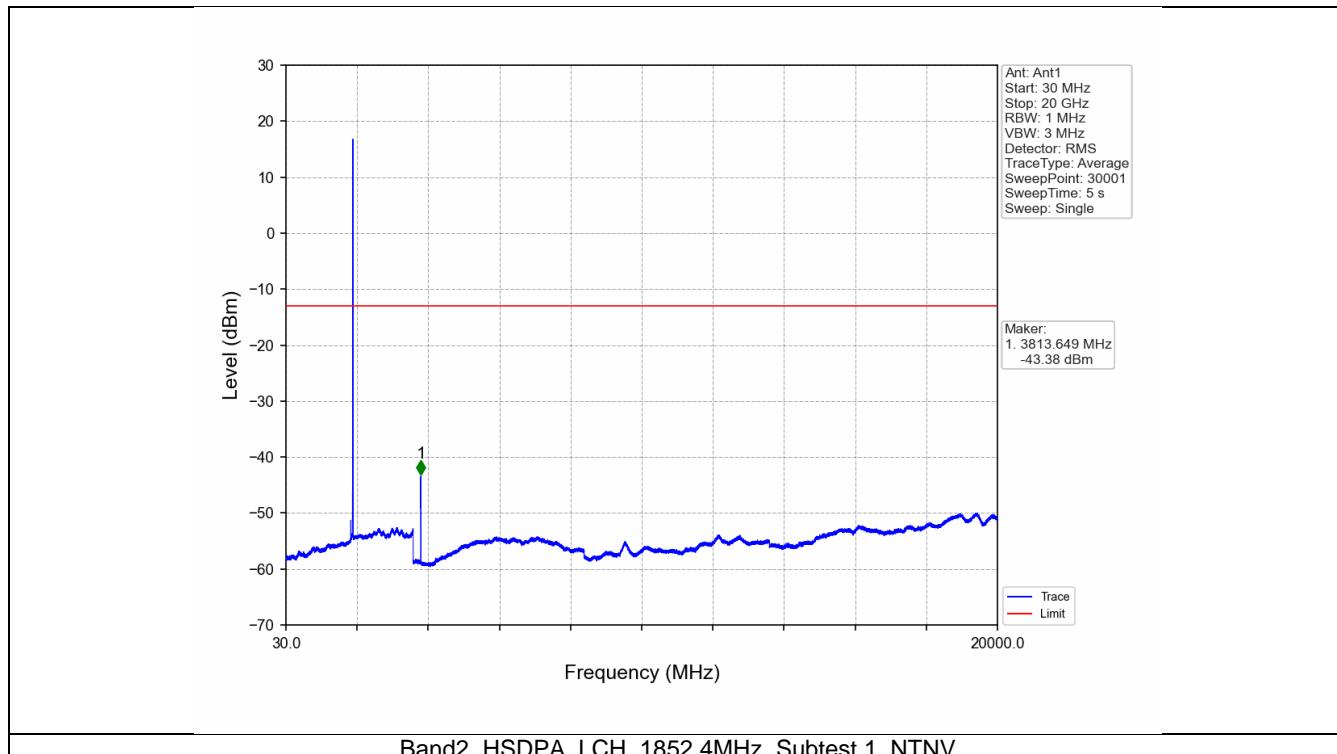
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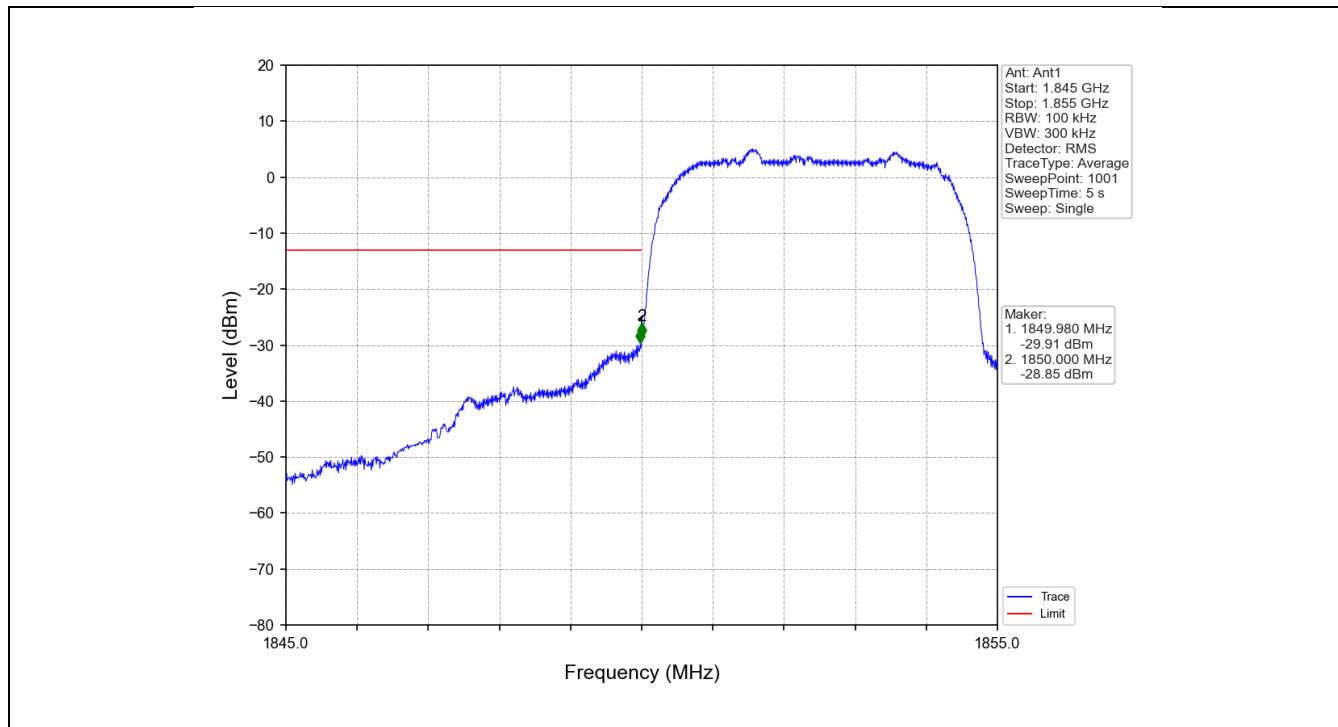
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Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV

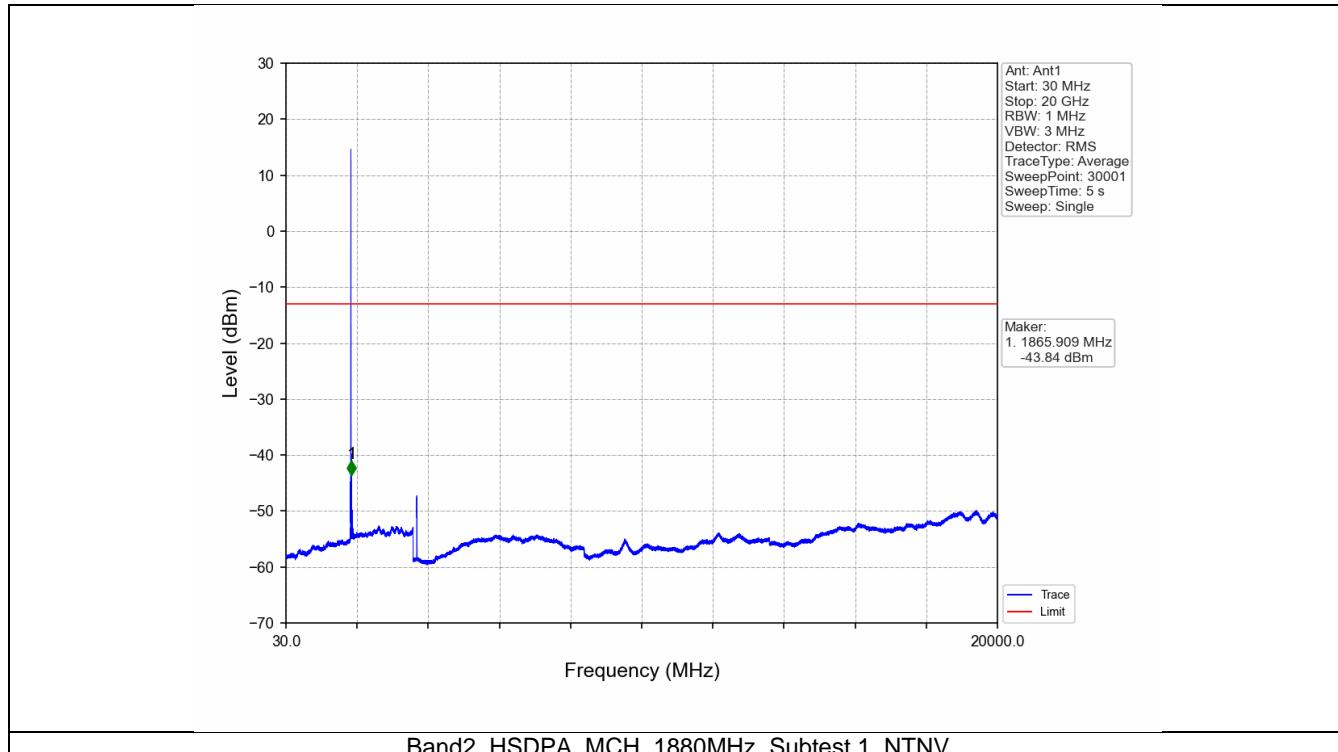
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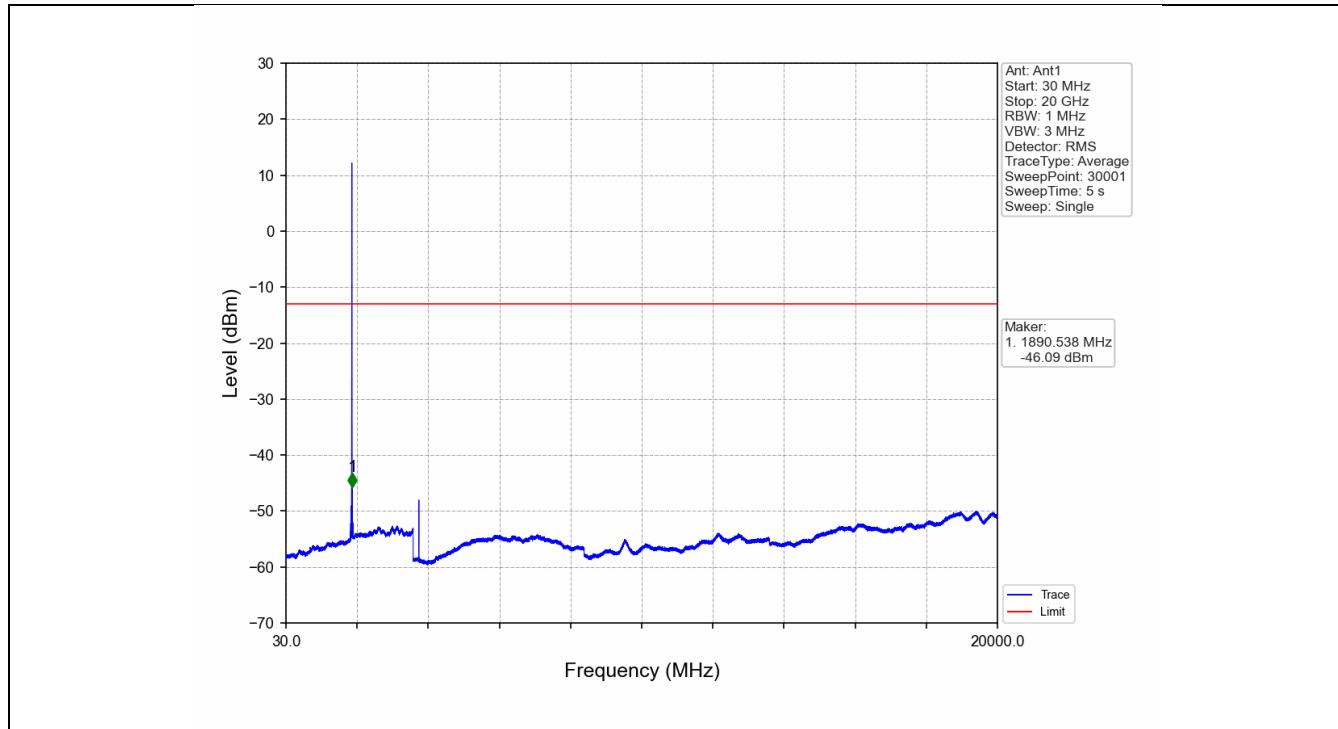
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Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV

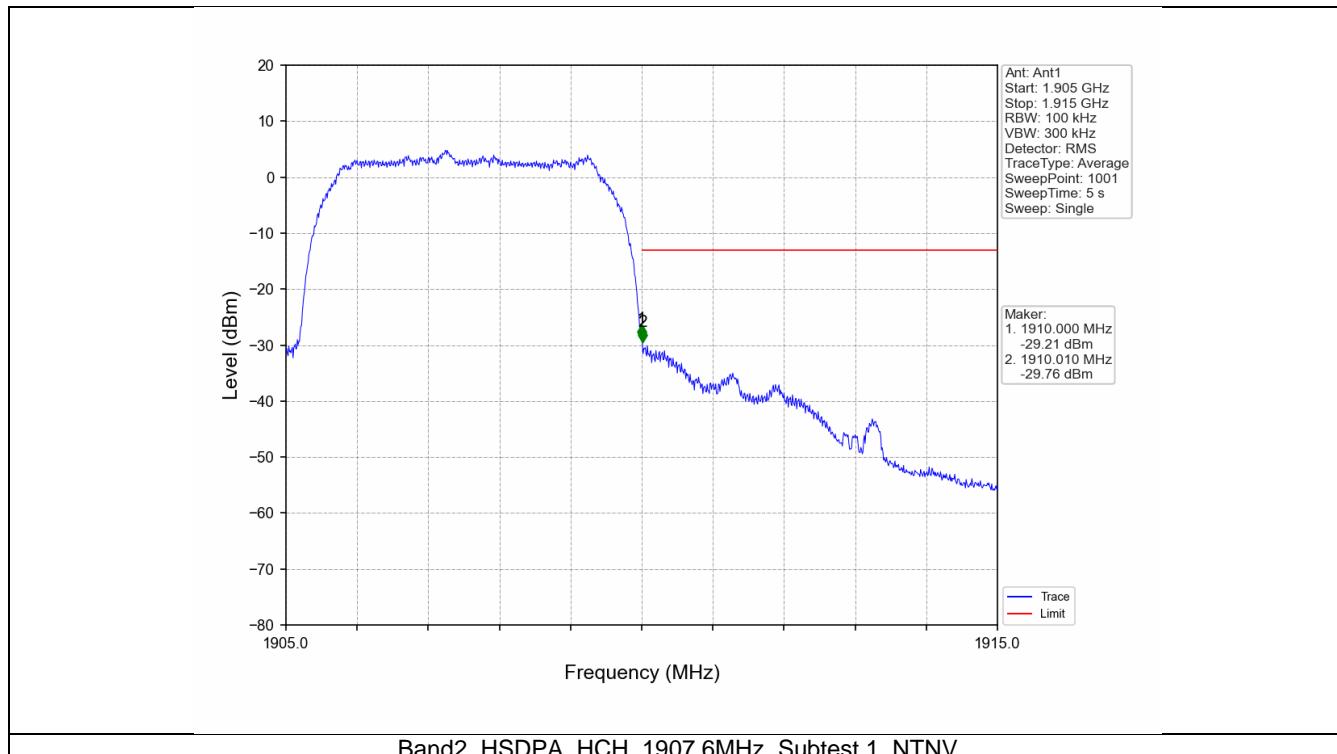


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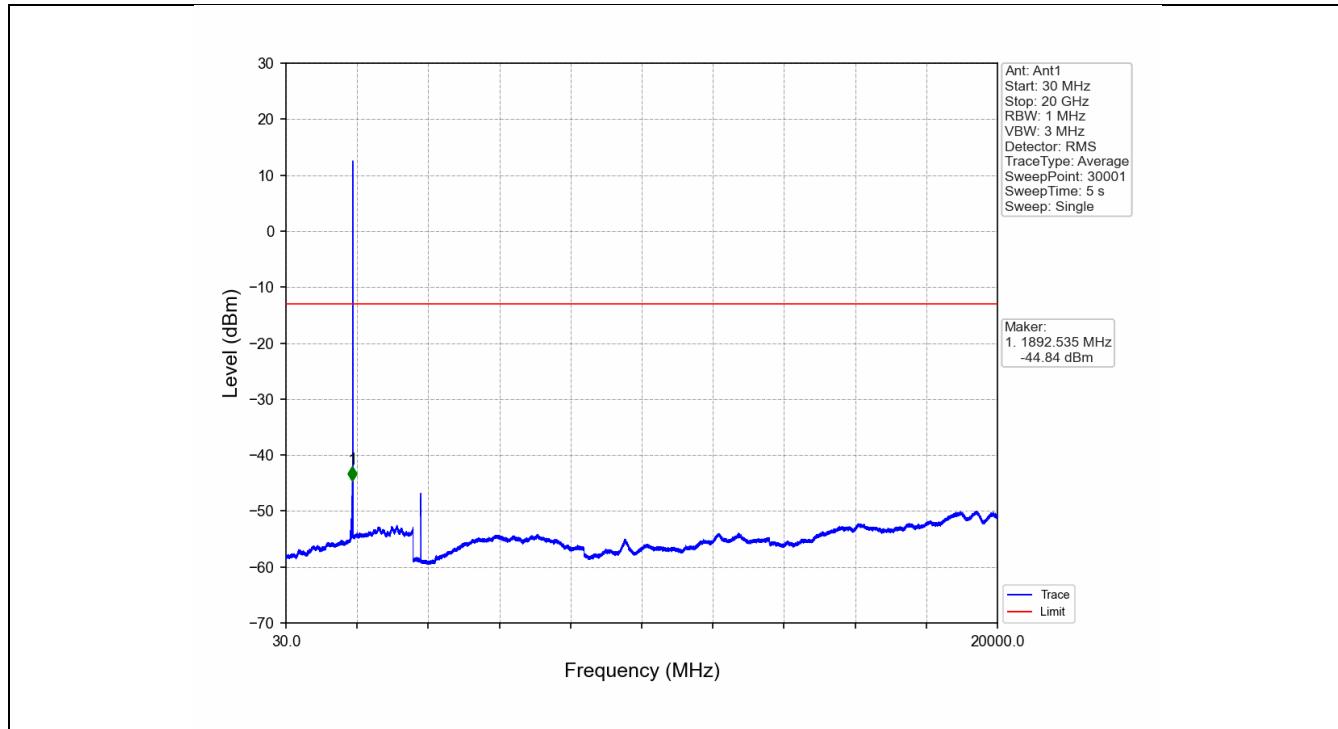
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Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV

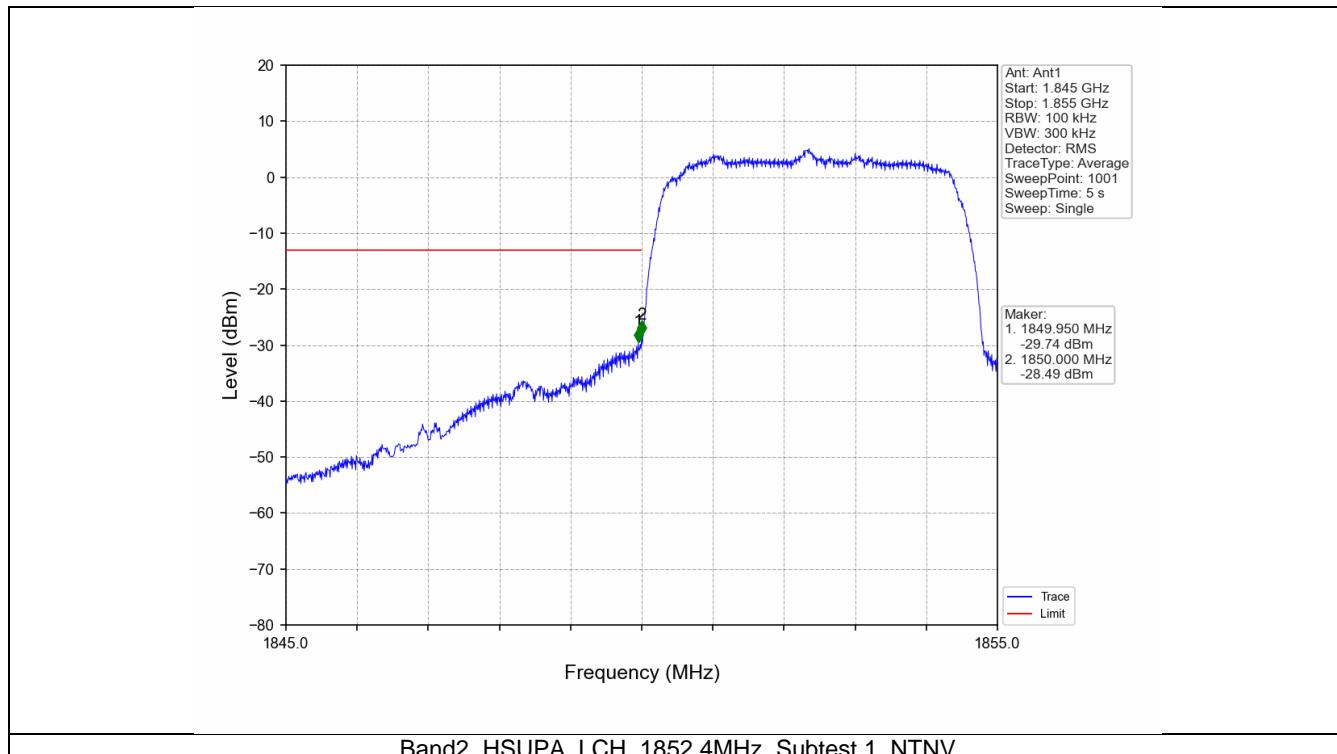
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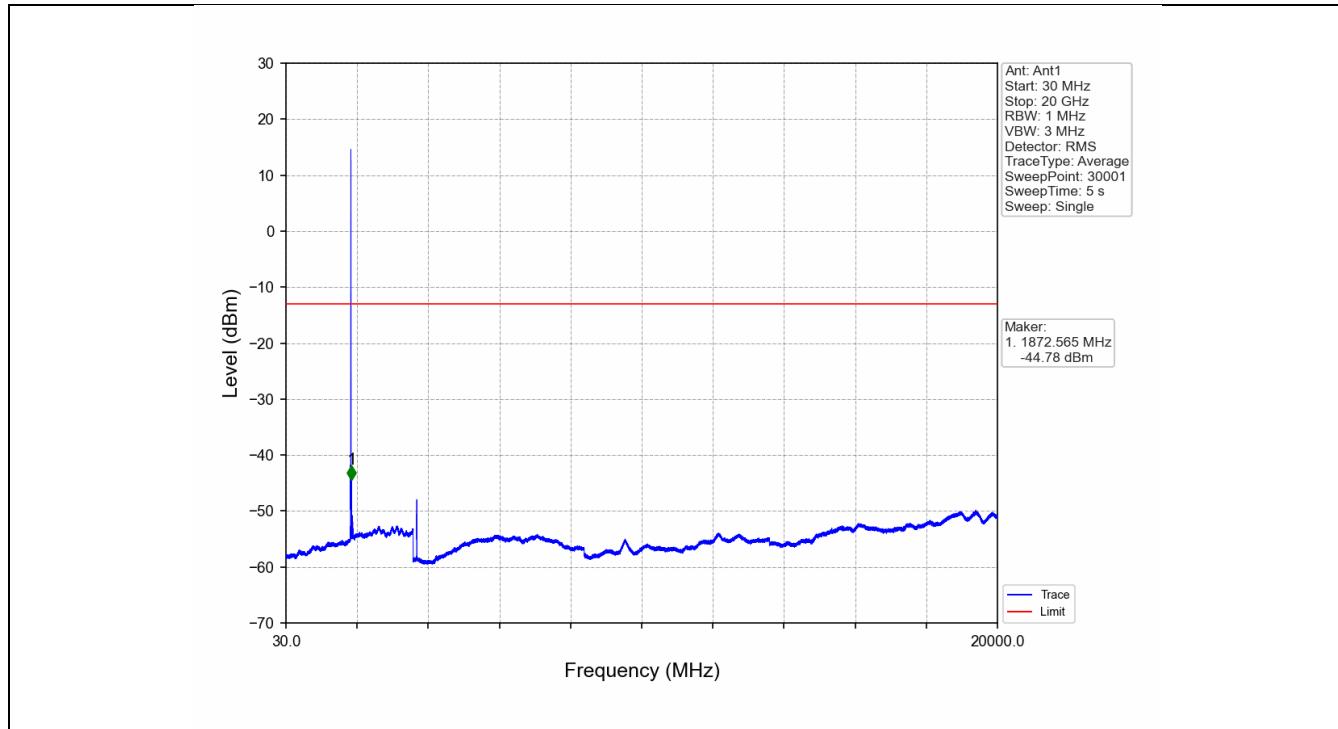
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Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV

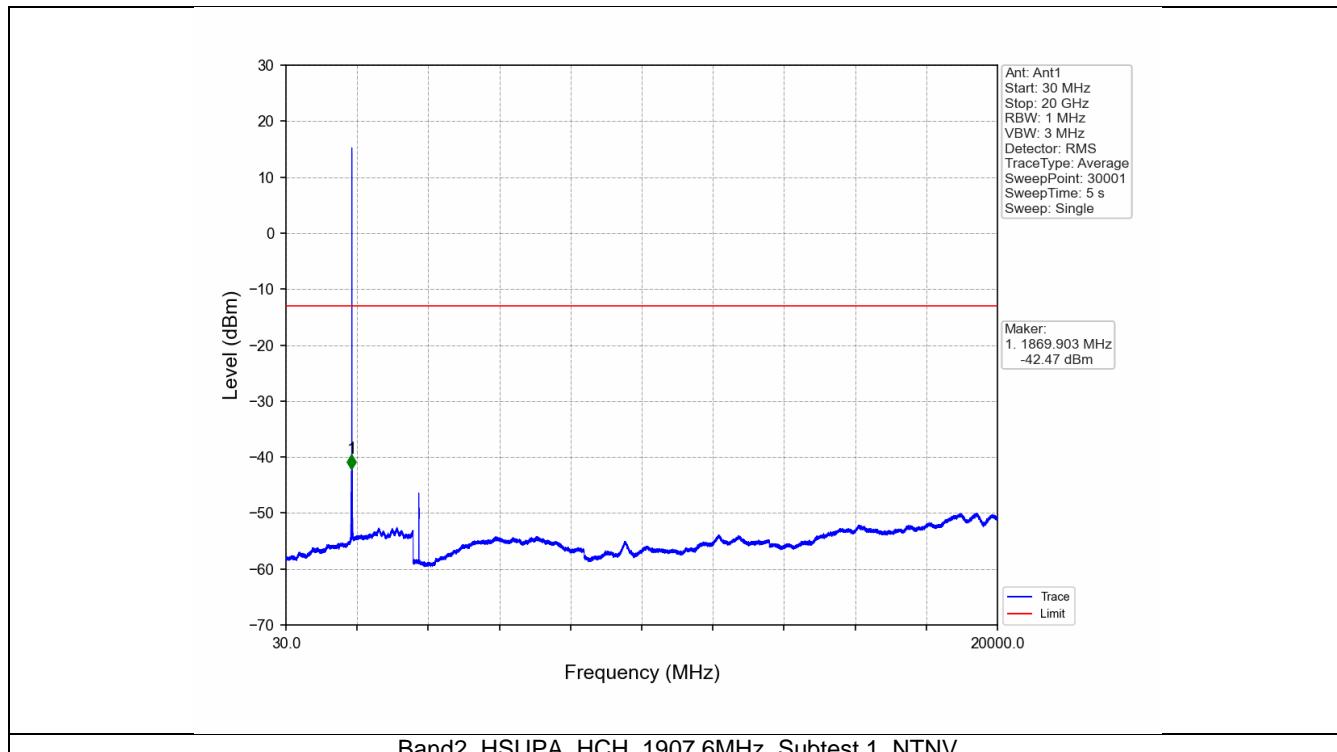


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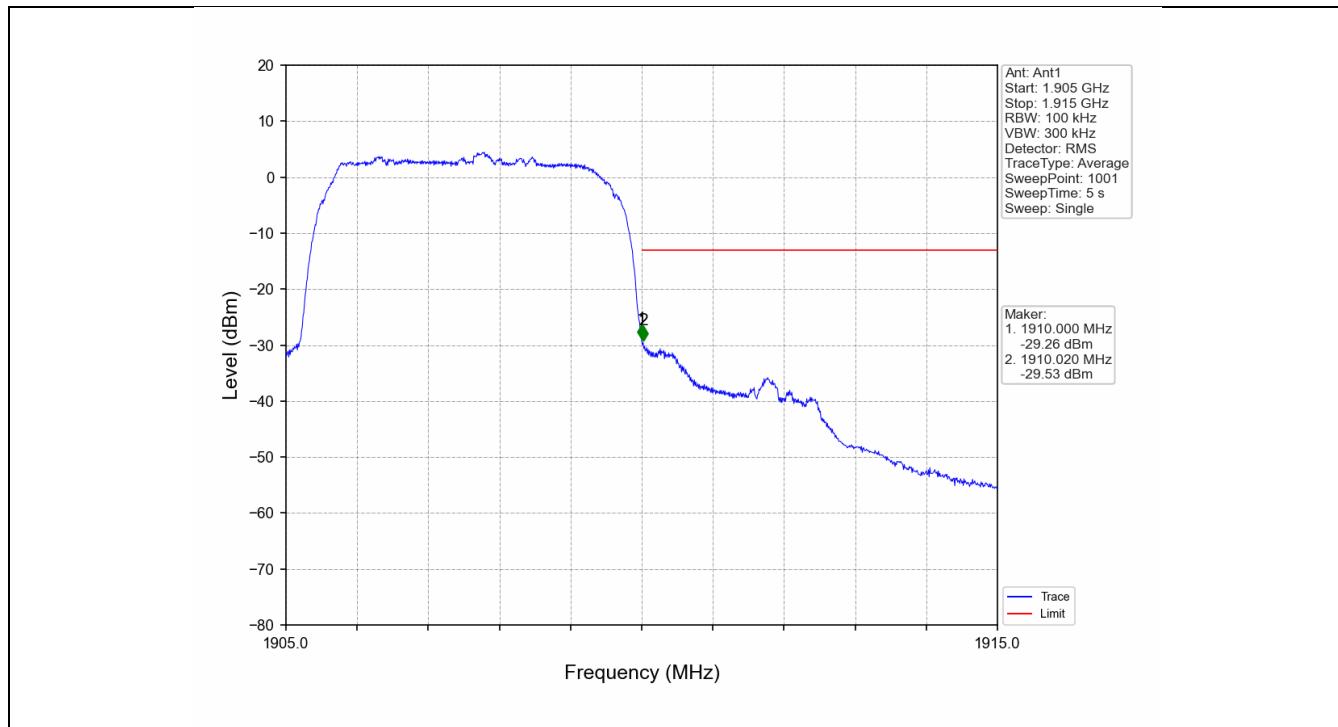
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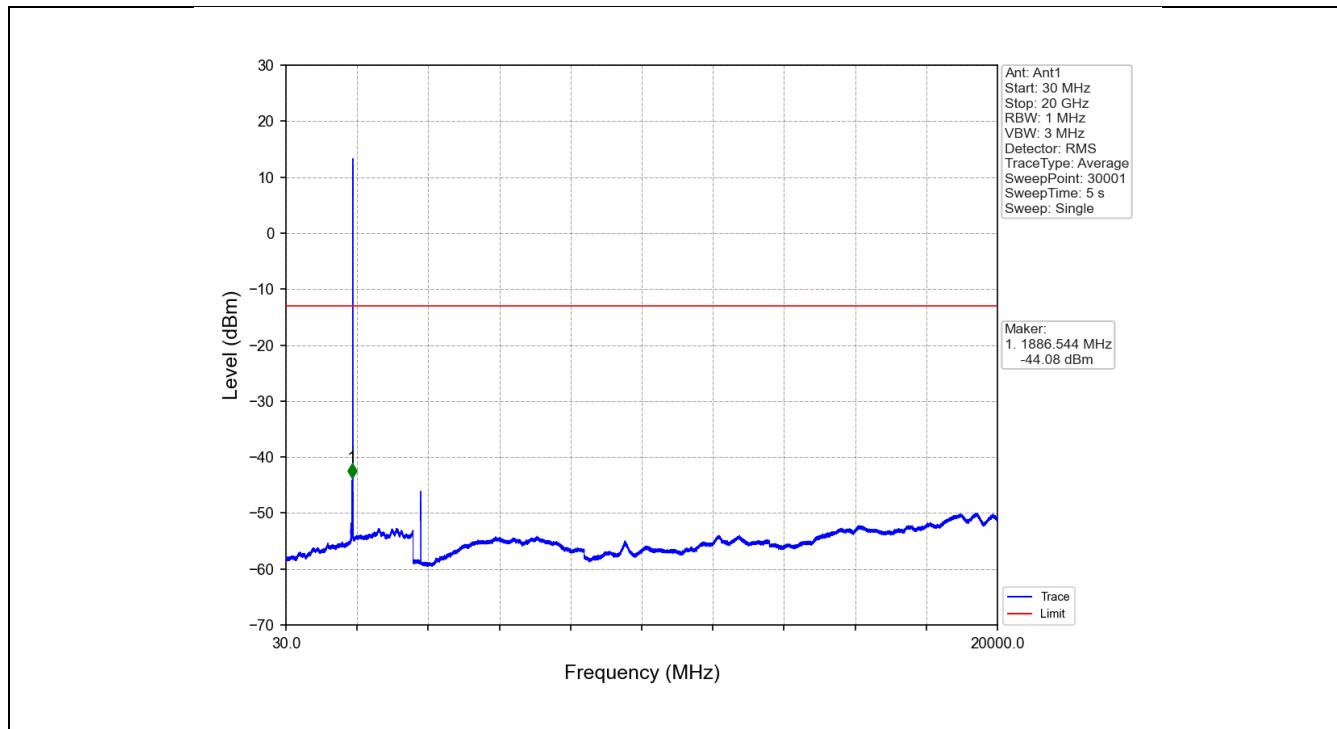


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