

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 Band2_EIRP

Band: 2									
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict	
	Network	Subset				Result	Limit		
NTNV	RMC	12.2kbps RMC	1852.4	21.50	0.91	22.41	<=33.01	Pass	
			1880	21.53	0.91	22.44	<=33.01	Pass	
			1907.6	21.38	0.91	22.29	<=33.01	Pass	
	HSDPA	Subtest 1	1852.4	19.24	0.91	20.15	<=33.01	Pass	
		Subtest 2	1852.4	19.24	0.91	20.15	<=33.01	Pass	
		Subtest 3	1852.4	19.25	0.91	20.16	<=33.01	Pass	
		Subtest 4	1852.4	19.26	0.91	20.17	<=33.01	Pass	
		Subtest 1	1880	19.25	0.91	20.16	<=33.01	Pass	
		Subtest 2	1880	19.29	0.91	20.20	<=33.01	Pass	
		Subtest 3	1880	19.25	0.91	20.16	<=33.01	Pass	
		Subtest 4	1880	19.26	0.91	20.17	<=33.01	Pass	
		Subtest 1	1907.6	19.05	0.91	19.96	<=33.01	Pass	
		Subtest 2	1907.6	19.07	0.91	19.98	<=33.01	Pass	
		Subtest 3	1907.6	19.08	0.91	19.99	<=33.01	Pass	
		Subtest 4	1907.6	19.05	0.91	19.96	<=33.01	Pass	
		HSUPA	Subtest 1	1852.4	17.31	0.91	18.22	<=33.01	Pass
			Subtest 2	1852.4	17.28	0.91	18.19	<=33.01	Pass
	Subtest 3		1852.4	17.27	0.91	18.18	<=33.01	Pass	
	Subtest 4		1852.4	16.78	0.91	17.69	<=33.01	Pass	
	Subtest 5		1852.4	17.26	0.91	18.17	<=33.01	Pass	
	Subtest 1		1880	17.35	0.91	18.26	<=33.01	Pass	
	Subtest 2		1880	17.31	0.91	18.22	<=33.01	Pass	
	Subtest 3		1880	17.14	0.91	18.05	<=33.01	Pass	
	Subtest 4		1880	17.15	0.91	18.06	<=33.01	Pass	
	Subtest 5		1880	17.15	0.91	18.06	<=33.01	Pass	
	Subtest 1		1907.6	17.15	0.91	18.06	<=33.01	Pass	
	Subtest 2		1907.6	17.14	0.91	18.05	<=33.01	Pass	
	Subtest 3		1907.6	16.96	0.91	17.87	<=33.01	Pass	
	Subtest 4	1907.6	17.14	0.91	18.05	<=33.01	Pass		
	Subtest 5	1907.6	16.96	0.91	17.87	<=33.01	Pass		

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Test Result

2.1.1 Band2

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	-6.838	-0.0037	-2.5 to 2.5	Pass
			3.85	-12.145	-0.0066	-2.5 to 2.5	Pass
			4.43	-4.971	-0.0027	-2.5 to 2.5	Pass
		-30	3.85	-5.908	-0.0032	-2.5 to 2.5	Pass
		-20	3.85	-8.698	-0.0047	-2.5 to 2.5	Pass

		-10	3.85	-5.643	-0.0030	-2.5 to 2.5	Pass		
		0	3.85	-8.748	-0.0047	-2.5 to 2.5	Pass		
		10	3.85	-6.738	-0.0036	-2.5 to 2.5	Pass		
		30	3.85	-5.629	-0.0030	-2.5 to 2.5	Pass		
		40	3.85	-2.575	-0.0014	-2.5 to 2.5	Pass		
	1880	50	3.85	-9.098	-0.0049	-2.5 to 2.5	Pass		
			20	3.27	-14.563	-0.0077	-2.5 to 2.5	Pass	
			3.85	-20.156	-0.0107	-2.5 to 2.5	Pass		
		4.43	-19.813	-0.0105	-2.5 to 2.5	Pass			
		-30	3.85	-16.923	-0.0090	-2.5 to 2.5	Pass		
		-20	3.85	-18.396	-0.0098	-2.5 to 2.5	Pass		
		-10	3.85	-20.599	-0.0110	-2.5 to 2.5	Pass		
		0	3.85	-15.171	-0.0081	-2.5 to 2.5	Pass		
		10	3.85	-19.569	-0.0104	-2.5 to 2.5	Pass		
		30	3.85	-17.030	-0.0091	-2.5 to 2.5	Pass		
		40	3.85	-15.085	-0.0080	-2.5 to 2.5	Pass		
		50	3.85	-11.423	-0.0061	-2.5 to 2.5	Pass		
		1907.6	20	3.27	-3.347	-0.0018	-2.5 to 2.5	Pass	
				3.85	-16.458	-0.0086	-2.5 to 2.5	Pass	
				4.43	-17.195	-0.0090	-2.5 to 2.5	Pass	
	-30		3.85	-16.801	-0.0088	-2.5 to 2.5	Pass		
	-20		3.85	-15.399	-0.0081	-2.5 to 2.5	Pass		
	-10		3.85	-12.267	-0.0064	-2.5 to 2.5	Pass		
	0		3.85	-13.640	-0.0072	-2.5 to 2.5	Pass		
	10		3.85	-18.003	-0.0094	-2.5 to 2.5	Pass		
	30		3.85	-16.909	-0.0089	-2.5 to 2.5	Pass		
	40		3.85	-10.700	-0.0056	-2.5 to 2.5	Pass		
	50		3.85	-17.638	-0.0092	-2.5 to 2.5	Pass		
	HSDPA		1852.4	20	3.27	-4.499	-0.0024	-2.5 to 2.5	Pass
					3.85	-9.527	-0.0051	-2.5 to 2.5	Pass
4.43					-8.068	-0.0044	-2.5 to 2.5	Pass	
-30				3.85	-8.690	-0.0047	-2.5 to 2.5	Pass	
-20		3.85		-6.523	-0.0035	-2.5 to 2.5	Pass		
-10		3.85		-4.020	-0.0022	-2.5 to 2.5	Pass		
0		3.85		-6.652	-0.0036	-2.5 to 2.5	Pass		
10		3.85		-9.592	-0.0052	-2.5 to 2.5	Pass		
30		3.85		-9.184	-0.0050	-2.5 to 2.5	Pass		
40		3.85		-10.564	-0.0057	-2.5 to 2.5	Pass		
50		3.85		-4.456	-0.0024	-2.5 to 2.5	Pass		
1880		20		3.27	-10.164	-0.0054	-2.5 to 2.5	Pass	
				3.85	-10.185	-0.0054	-2.5 to 2.5	Pass	
				4.43	-10.042	-0.0053	-2.5 to 2.5	Pass	
		-30		3.85	-8.640	-0.0046	-2.5 to 2.5	Pass	
		-20	3.85	-11.587	-0.0062	-2.5 to 2.5	Pass		
		-10	3.85	-7.010	-0.0037	-2.5 to 2.5	Pass		
		0	3.85	-9.520	-0.0051	-2.5 to 2.5	Pass		
		10	3.85	-10.929	-0.0058	-2.5 to 2.5	Pass		
		30	3.85	-6.981	-0.0037	-2.5 to 2.5	Pass		
		40	3.85	-6.874	-0.0037	-2.5 to 2.5	Pass		
		50	3.85	-4.892	-0.0026	-2.5 to 2.5	Pass		
		1907.6	20	3.27	-11.480	-0.0060	-2.5 to 2.5	Pass	
				3.85	-7.067	-0.0037	-2.5 to 2.5	Pass	
				4.43	-11.008	-0.0058	-2.5 to 2.5	Pass	
			-30	3.85	-13.969	-0.0073	-2.5 to 2.5	Pass	
-20			3.85	-9.735	-0.0051	-2.5 to 2.5	Pass		
-10			3.85	-11.244	-0.0059	-2.5 to 2.5	Pass		
0			3.85	-11.430	-0.0060	-2.5 to 2.5	Pass		
10			3.85	-13.769	-0.0072	-2.5 to 2.5	Pass		
30	3.85		-6.630	-0.0035	-2.5 to 2.5	Pass			

		40	3.85	-6.373	-0.0033	-2.5 to 2.5	Pass
		50	3.85	-10.393	-0.0054	-2.5 to 2.5	Pass
HSUPA	1852.4	20	3.27	-6.709	-0.0036	-2.5 to 2.5	Pass
			3.85	-10.293	-0.0056	-2.5 to 2.5	Pass
		4.43	-9.506	-0.0051	-2.5 to 2.5	Pass	
		-30	3.85	-8.554	-0.0046	-2.5 to 2.5	Pass
		-20	3.85	-11.458	-0.0062	-2.5 to 2.5	Pass
		-10	3.85	-16.115	-0.0087	-2.5 to 2.5	Pass
		0	3.85	-9.520	-0.0051	-2.5 to 2.5	Pass
		10	3.85	-13.146	-0.0071	-2.5 to 2.5	Pass
		30	3.85	-10.200	-0.0055	-2.5 to 2.5	Pass
		40	3.85	-9.449	-0.0051	-2.5 to 2.5	Pass
	50	3.85	-11.337	-0.0061	-2.5 to 2.5	Pass	
	1880	20	3.27	-14.505	-0.0077	-2.5 to 2.5	Pass
			3.85	-7.939	-0.0042	-2.5 to 2.5	Pass
			4.43	-10.350	-0.0055	-2.5 to 2.5	Pass
		-30	3.85	-10.107	-0.0054	-2.5 to 2.5	Pass
		-20	3.85	-13.869	-0.0074	-2.5 to 2.5	Pass
		-10	3.85	-15.707	-0.0084	-2.5 to 2.5	Pass
		0	3.85	-4.821	-0.0026	-2.5 to 2.5	Pass
		10	3.85	-3.791	-0.0020	-2.5 to 2.5	Pass
		30	3.85	-5.157	-0.0027	-2.5 to 2.5	Pass
		40	3.85	-10.085	-0.0054	-2.5 to 2.5	Pass
	50	3.85	-7.925	-0.0042	-2.5 to 2.5	Pass	
	1907.6	20	3.27	-9.391	-0.0049	-2.5 to 2.5	Pass
			3.85	-8.855	-0.0046	-2.5 to 2.5	Pass
			4.43	-12.968	-0.0068	-2.5 to 2.5	Pass
		-30	3.85	-8.776	-0.0046	-2.5 to 2.5	Pass
		-20	3.85	-7.889	-0.0041	-2.5 to 2.5	Pass
		-10	3.85	-11.580	-0.0061	-2.5 to 2.5	Pass
		0	3.85	-11.423	-0.0060	-2.5 to 2.5	Pass
		10	3.85	-9.820	-0.0051	-2.5 to 2.5	Pass
30		3.85	-9.077	-0.0048	-2.5 to 2.5	Pass	
40		3.85	-11.966	-0.0063	-2.5 to 2.5	Pass	
50	3.85	-10.085	-0.0053	-2.5 to 2.5	Pass		

3. Modulation Characteristics

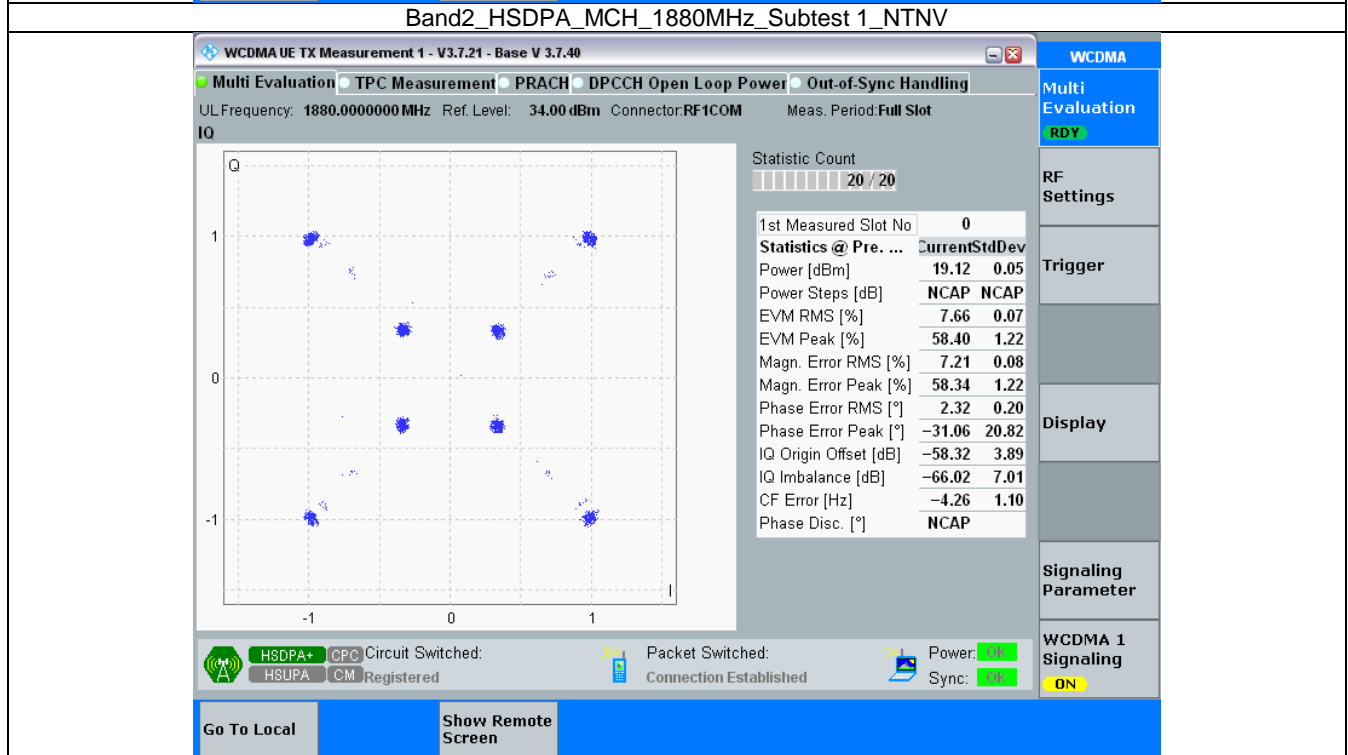
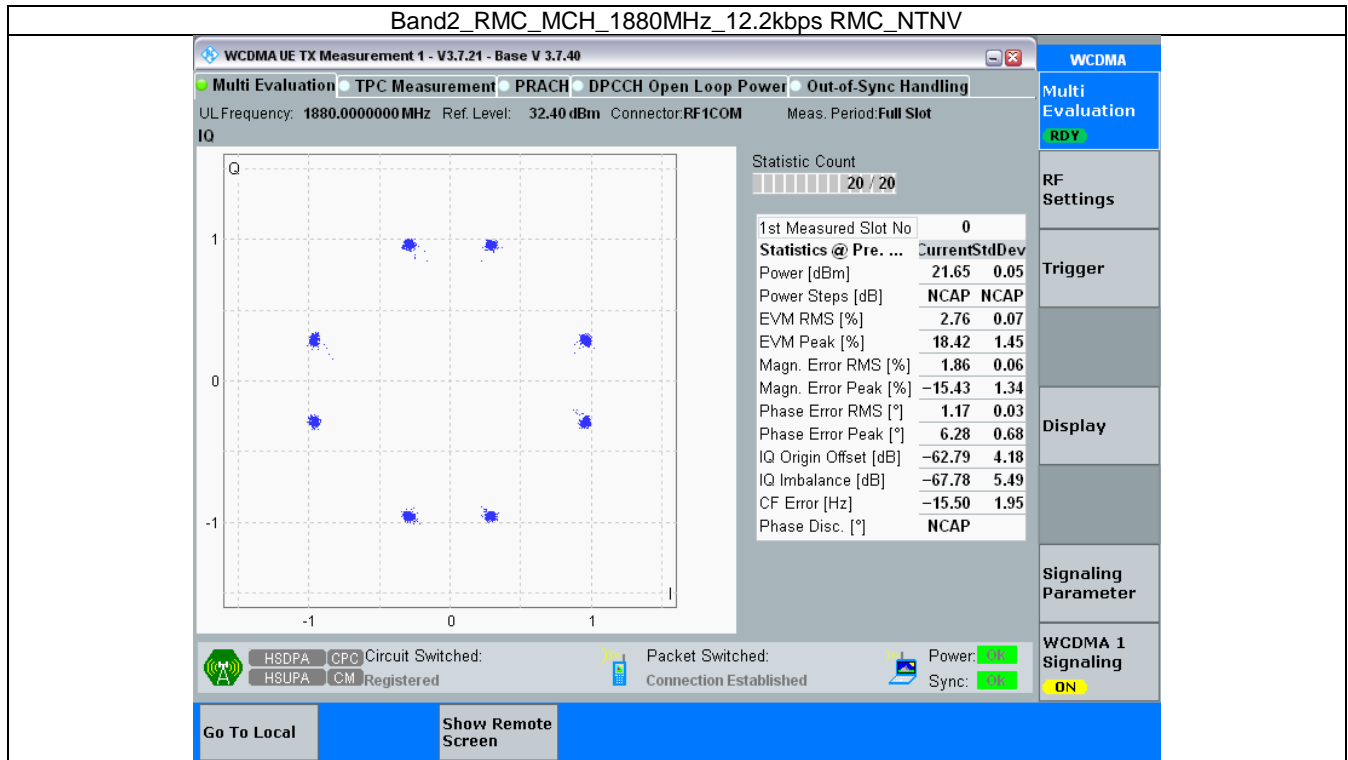
3.1 Test Result

3.1.1 Band2

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

3.2 Test Graph

3.2.1 Band2



Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV

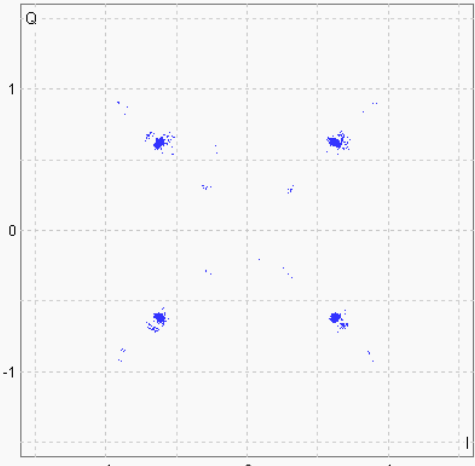
WCDMA UE TX Measurement 1 - V3.7.21 - Base V 3.7.40
WCDMA

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

Multi Evaluation

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

IQ



Statistic Count

20 / 20

1st Measured Slot No	0
Statistics @ Pre. ...	CurrentStdDev
Power [dBm]	13.67 2.58
Power Steps [dB]	NCAP NCAP
EVM RMS [%]	13.21 4.55
EVM Peak [%]	100.00 39.70
Magn. Error RMS [%]	12.92 4.86
Magn. Error Peak [%]	100.00 40.86
Phase Error RMS [°]	1.90 0.53
Phase Error Peak [°]	67.90 25.53
IQ Origin Offset [dB]	-45.30 9.72
IQ Imbalance [dB]	-61.40 4.86
CF Error [Hz]	-3.55 3.54
Phase Disc. [°]	NCAP

HSDPA+ CPO Circuit Switched:
 HSUPA CM Registered

Packet Switched:
 Connection Established

Power: ON
 Sync: ON

Go To Local
Show Remote Screen

WCDMA
Multi Evaluation
RF Settings
Trigger
Display
Signaling Parameter
WCDMA 1 Signaling

4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band2_OBW

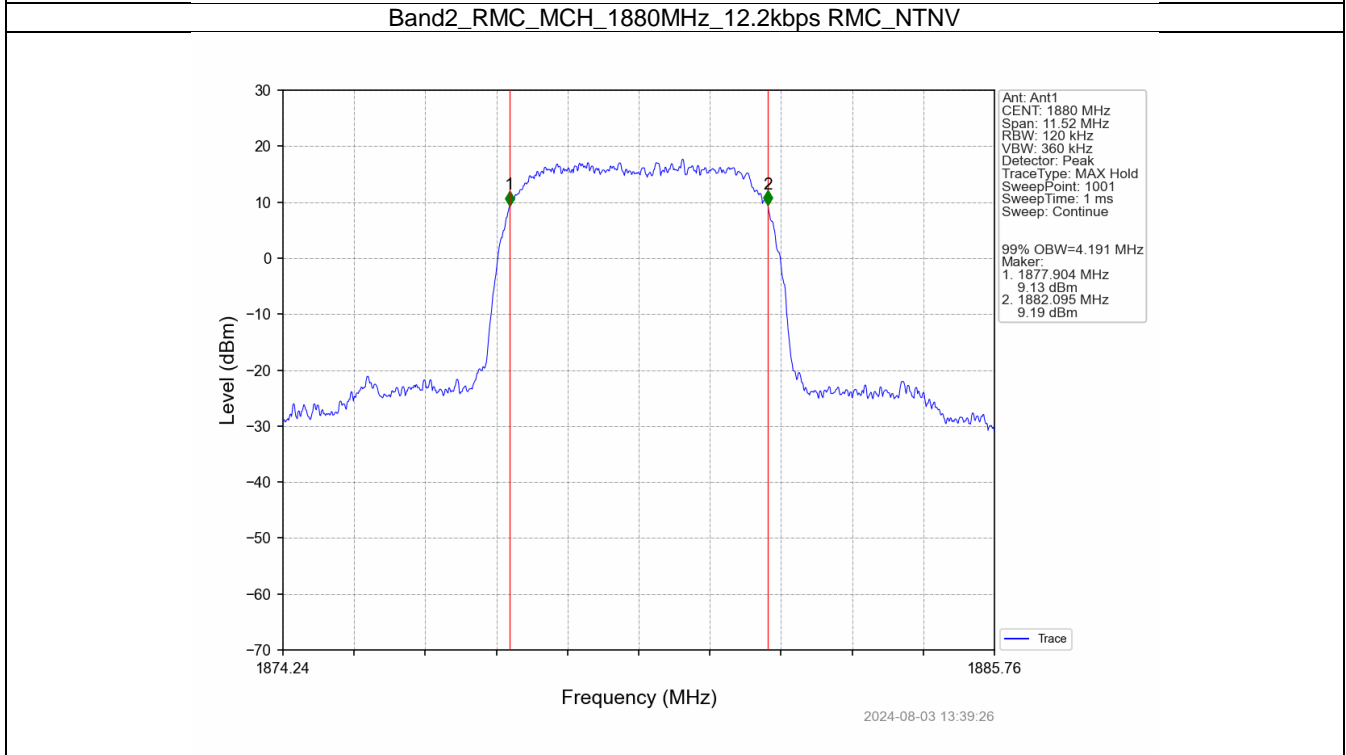
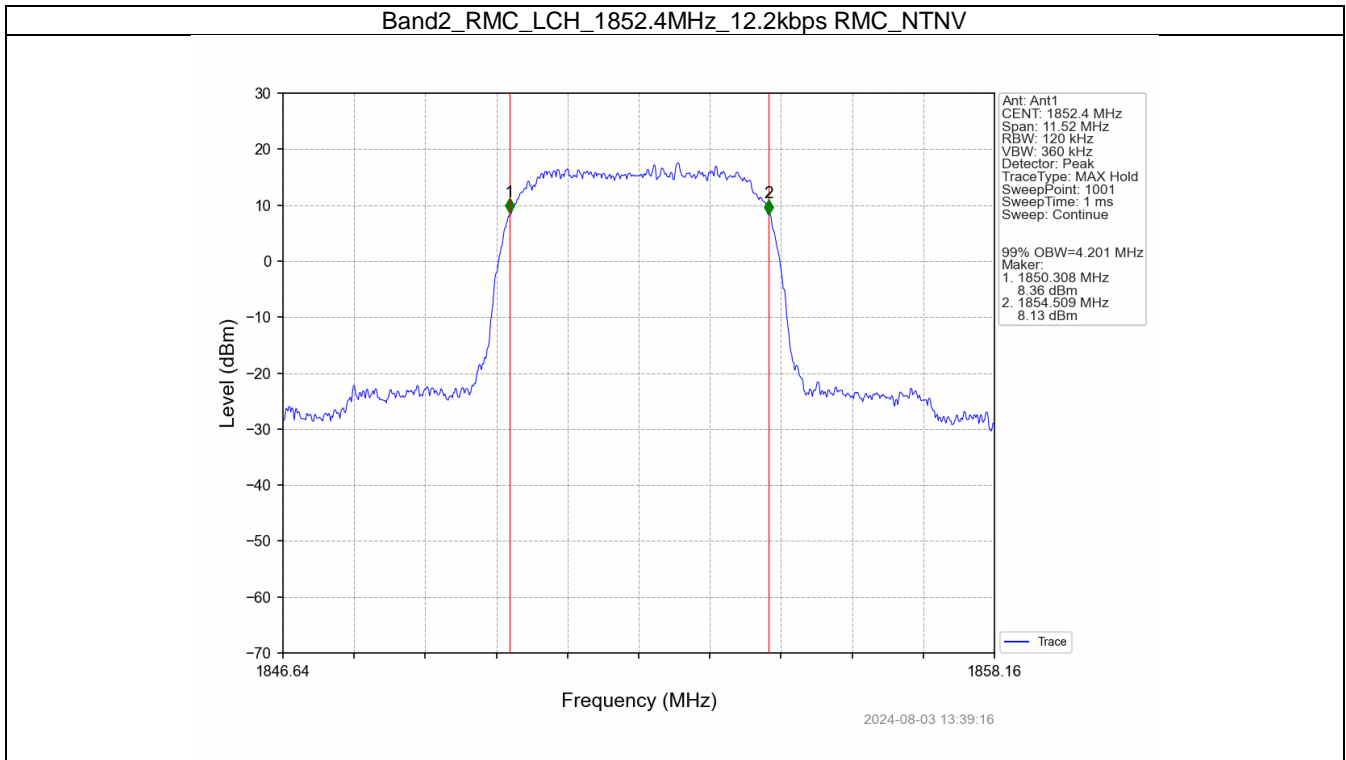
Band: 2						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	4.201	/	Pass
			1880	4.191	/	Pass
			1907.6	4.197	/	Pass
	HSDPA	Subtest 1	1852.4	4.221	/	Pass
			1880	4.221	/	Pass
			1907.6	4.206	/	Pass
	HSUPA	Subtest 1	1852.4	4.242	/	Pass
			1880	4.226	/	Pass
			1907.6	4.208	/	Pass

4.1.2 Band2_XDB

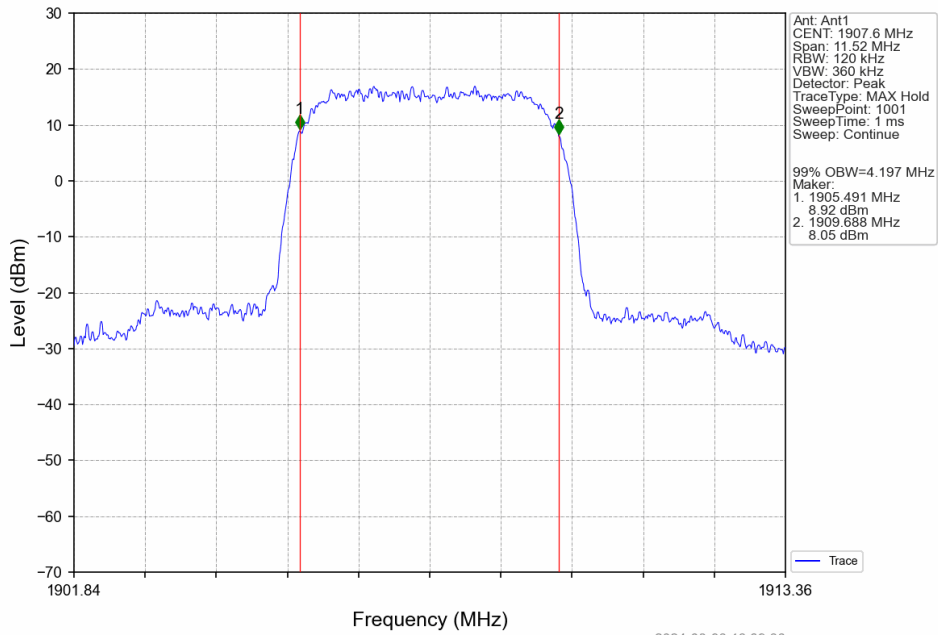
Band: 2						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	4.760	/	Pass
			1880	4.764	/	Pass
			1907.6	4.779	/	Pass
	HSDPA	Subtest 1	1852.4	5.375	/	Pass
			1880	5.308	/	Pass
			1907.6	5.084	/	Pass
	HSUPA	Subtest 1	1852.4	5.489	/	Pass
			1880	5.130	/	Pass
			1907.6	5.210	/	Pass

4.2 Test Graph

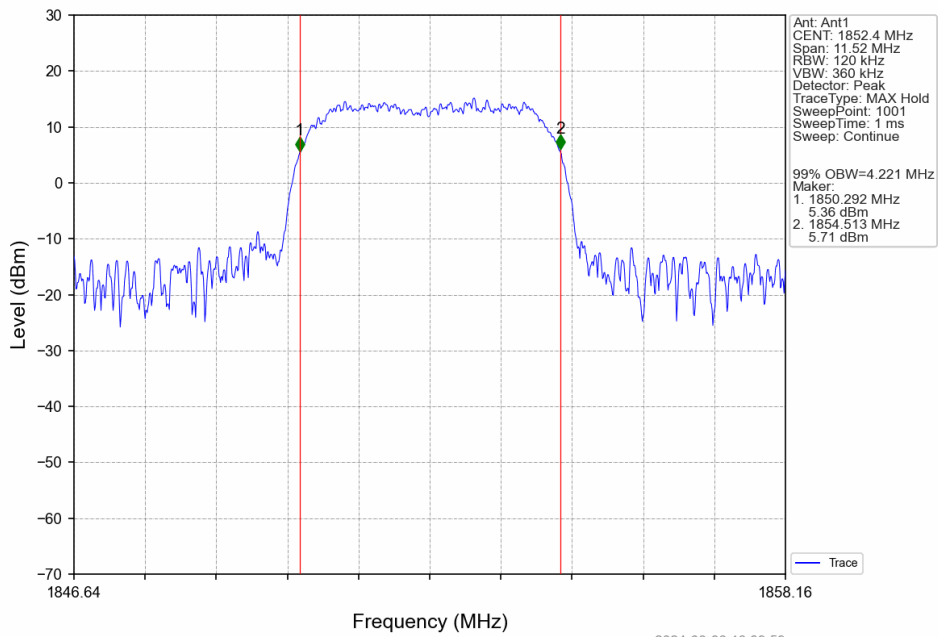
4.2.1 Band2_OBW



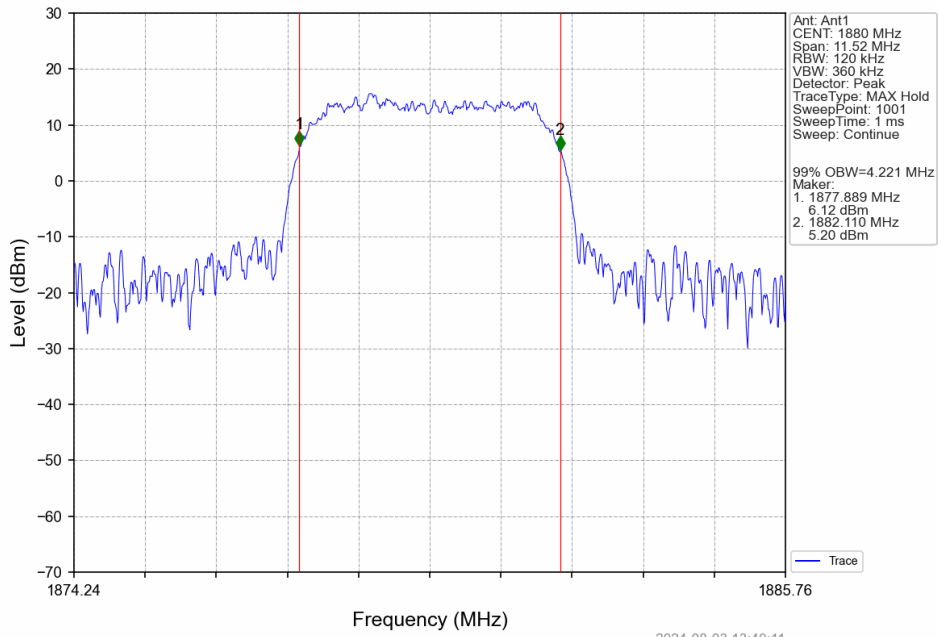
Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



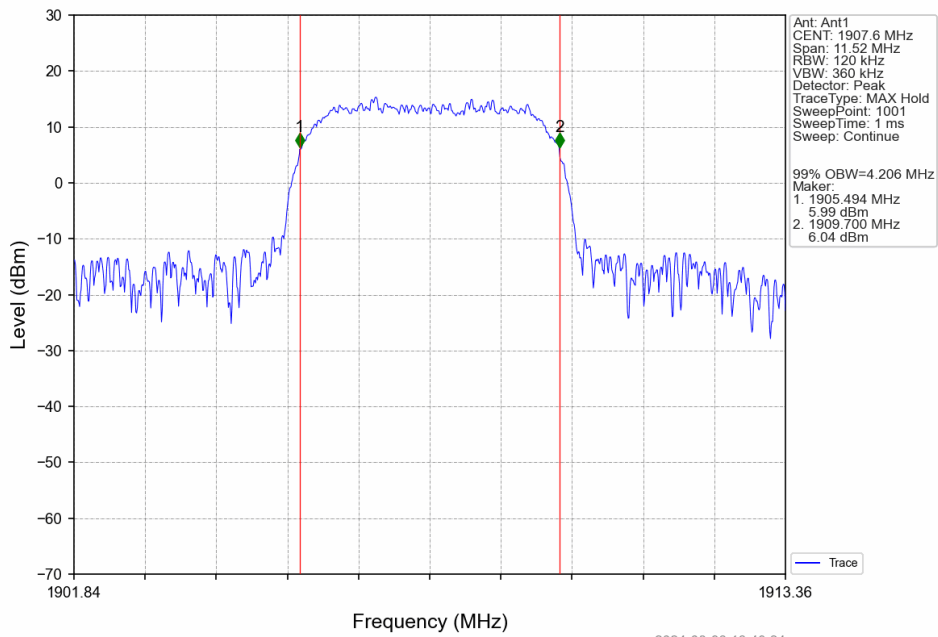
Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



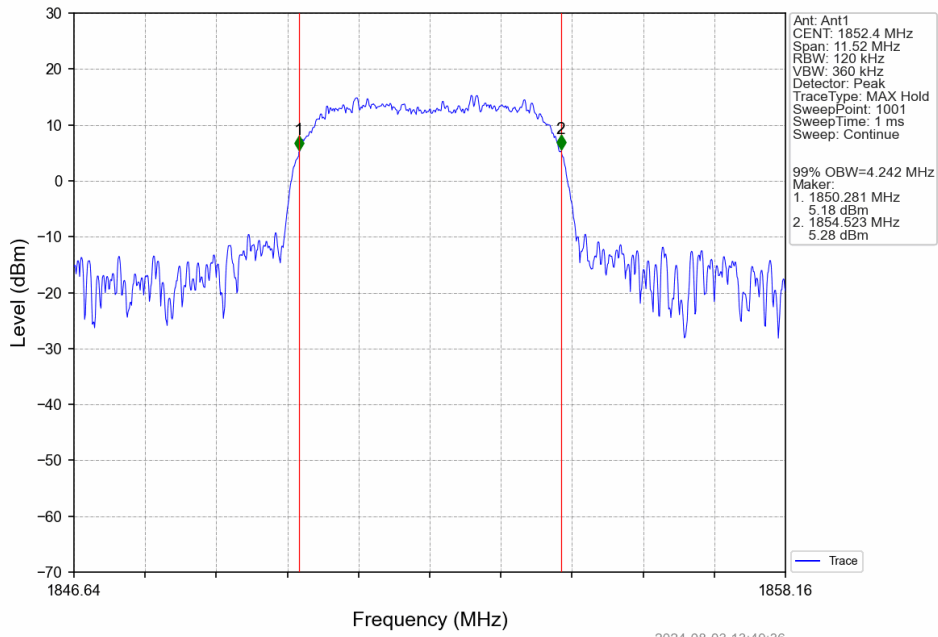
Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV



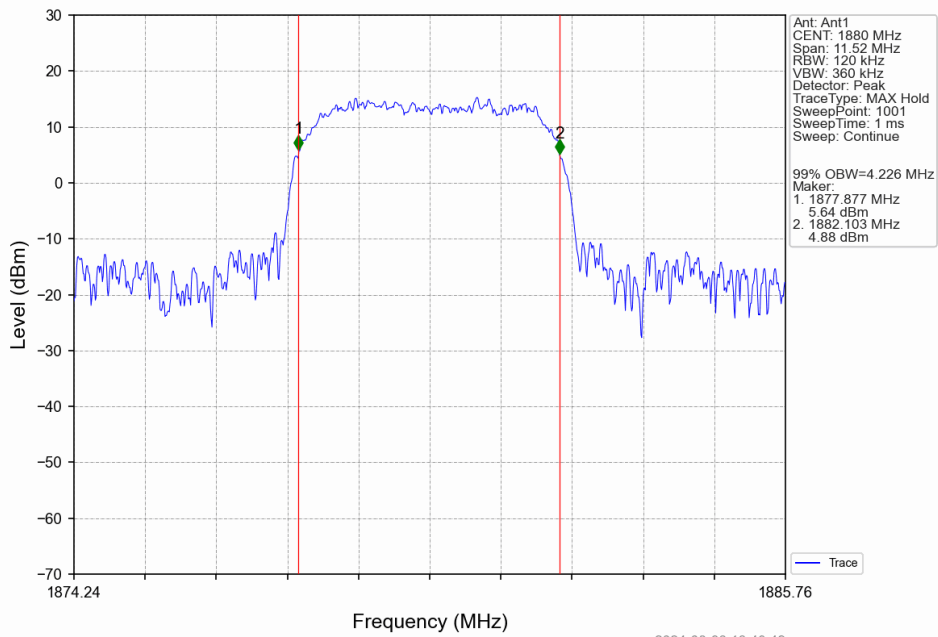
Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



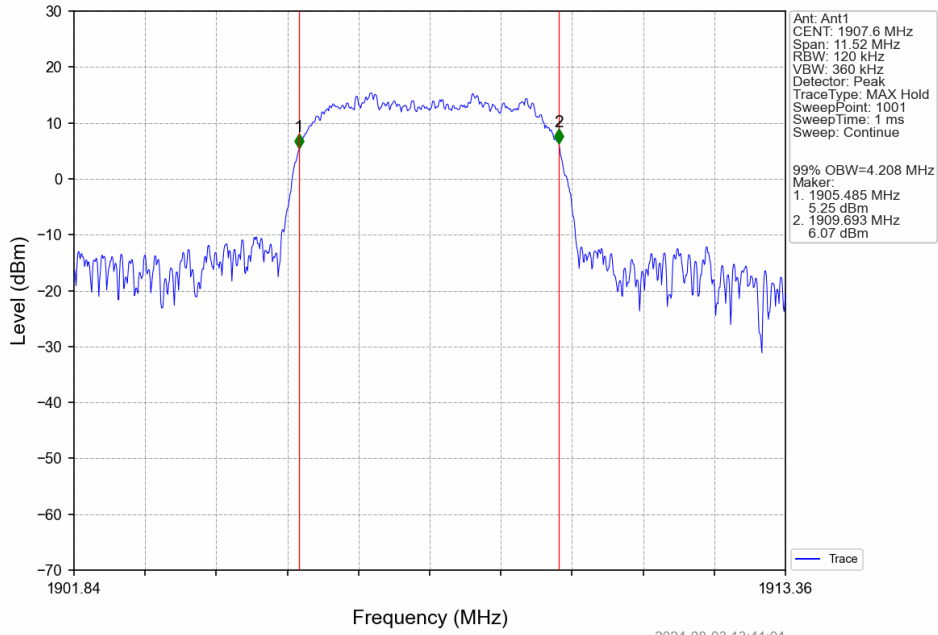
Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV

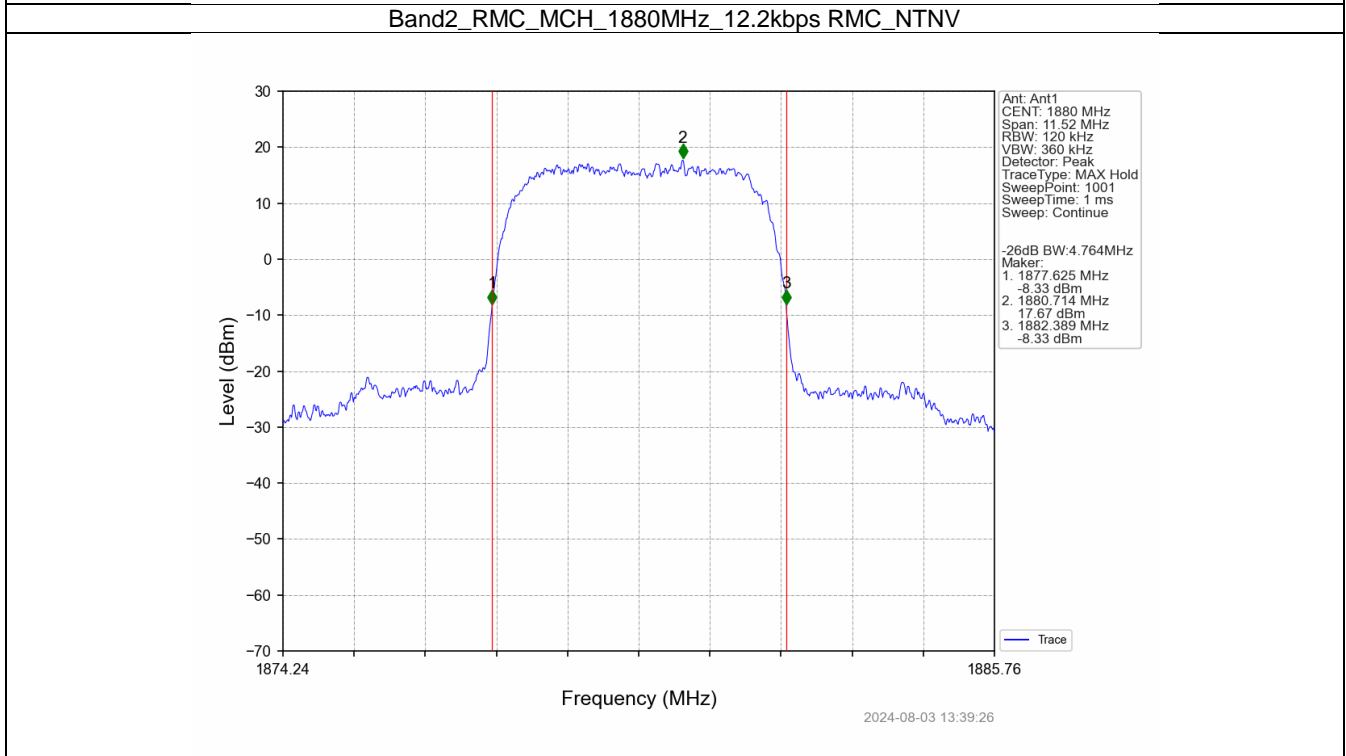
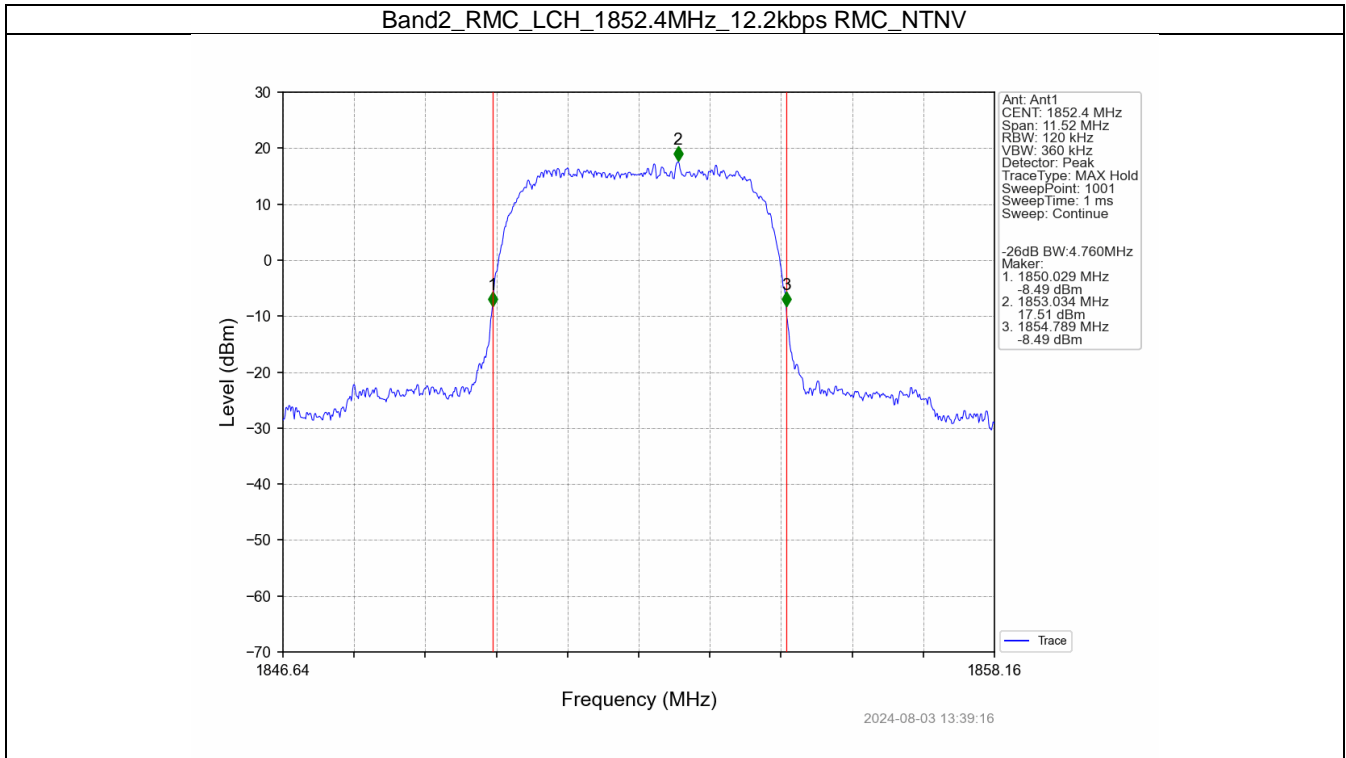


Band2_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV

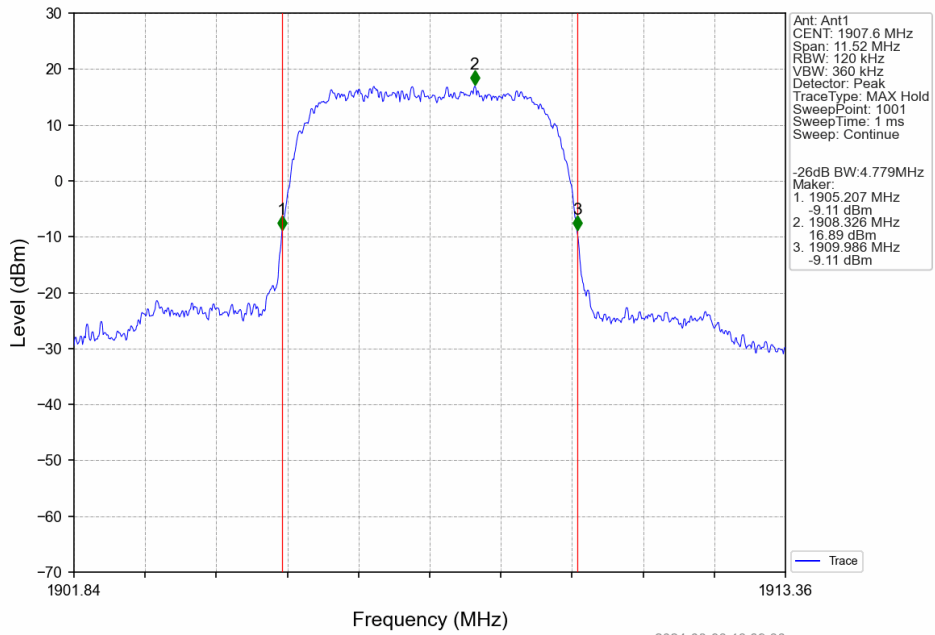


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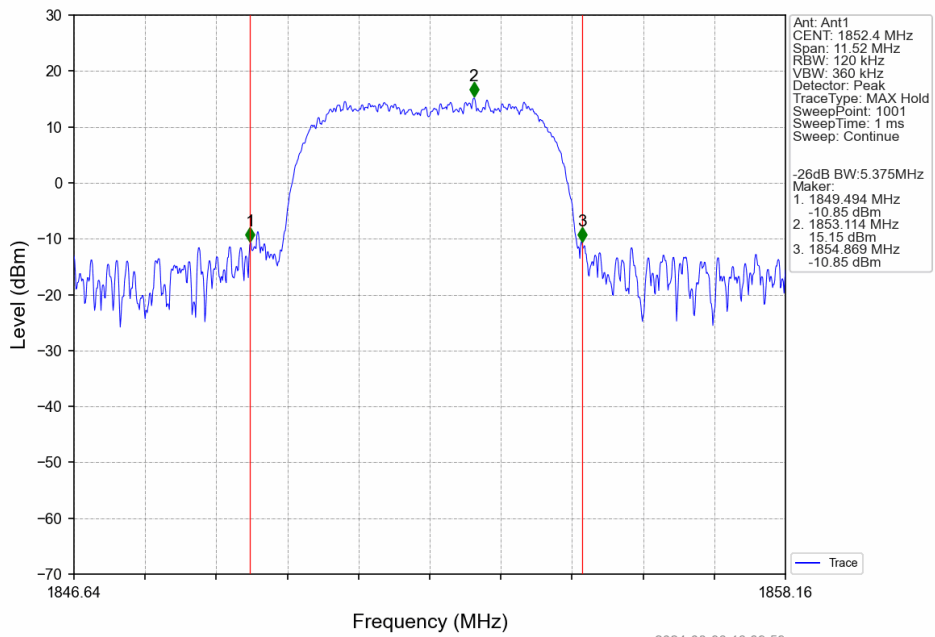
4.2.2 Band2_XDB



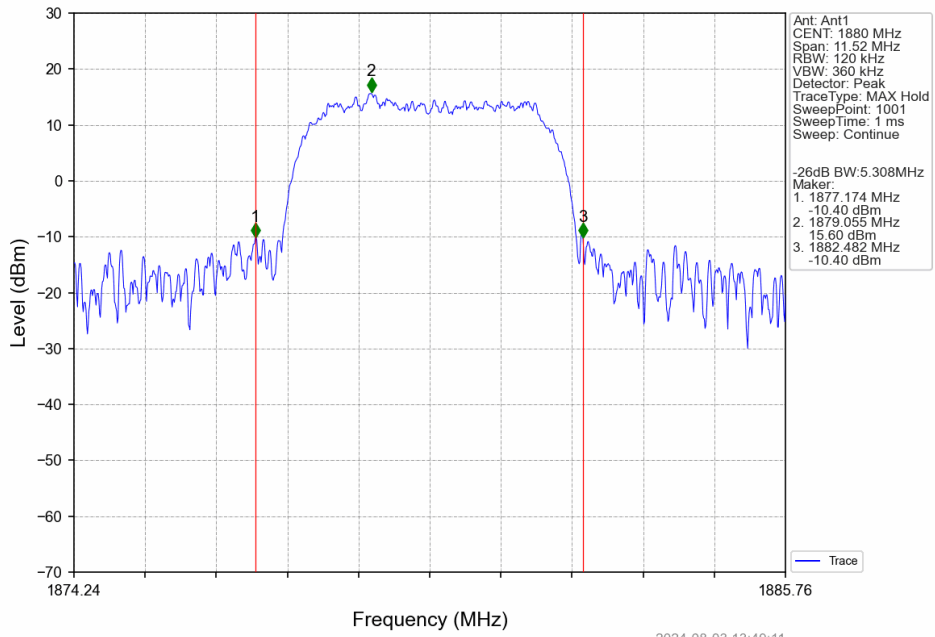
Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



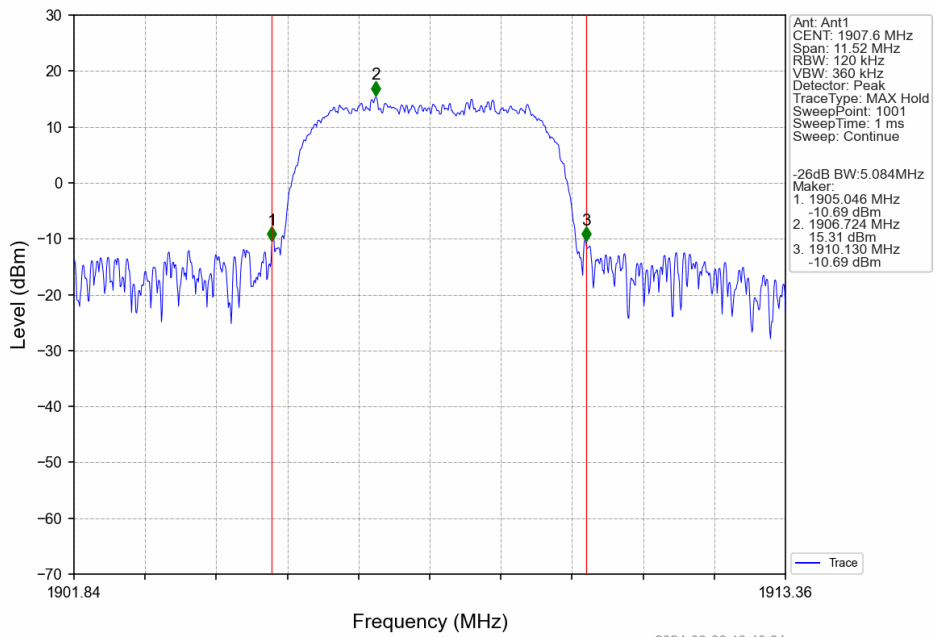
Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



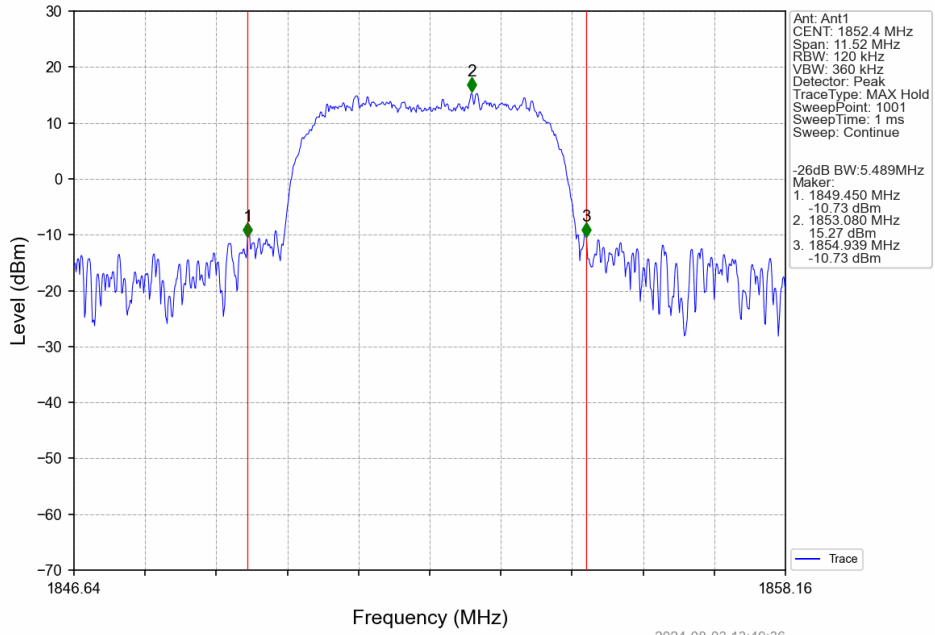
Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV



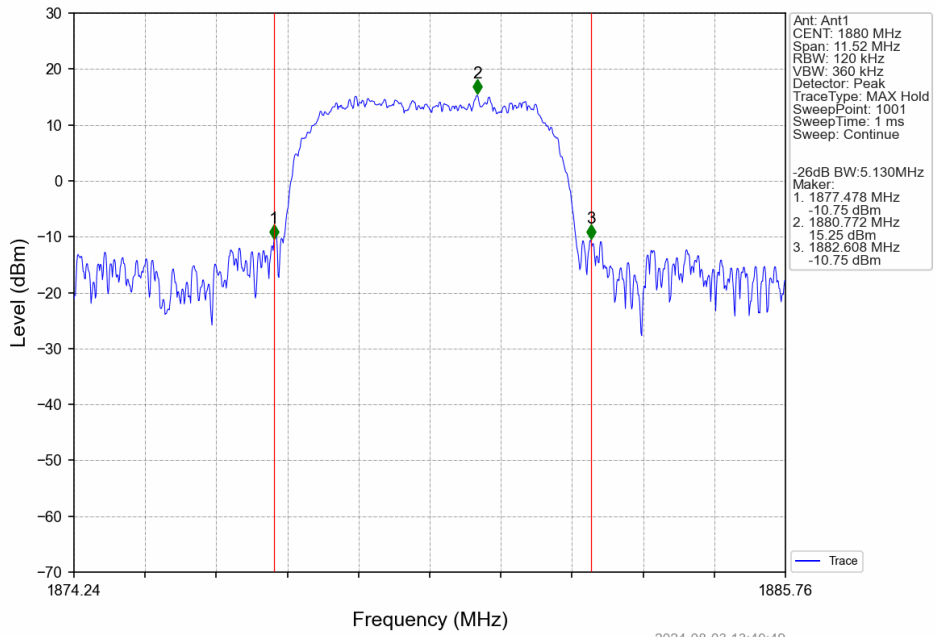
Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



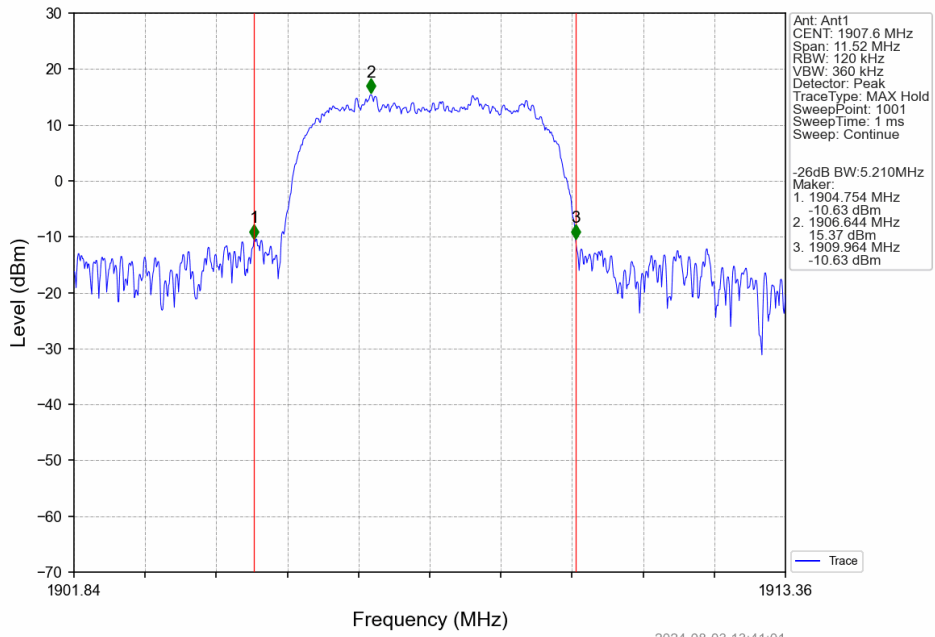
Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV



Band2_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



2024-08-03 13:41:01

5. Peak-Average Ratio

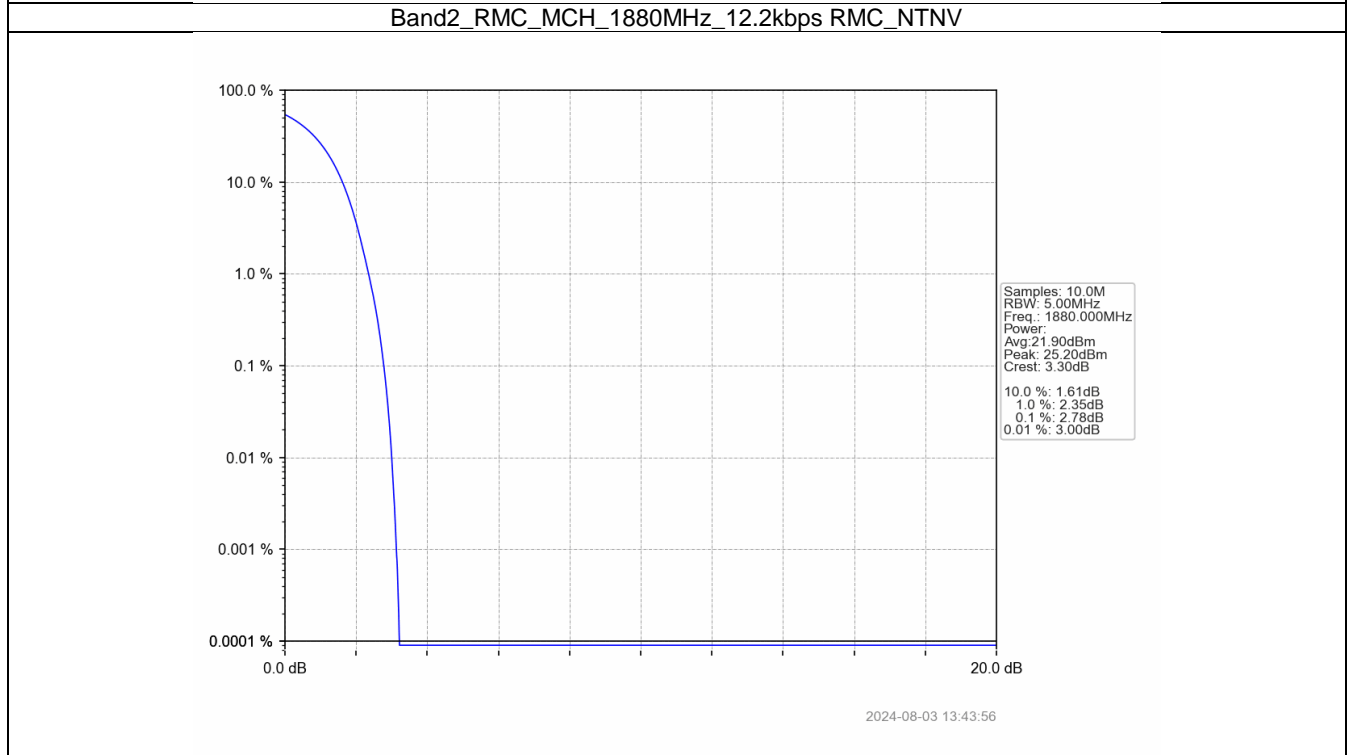
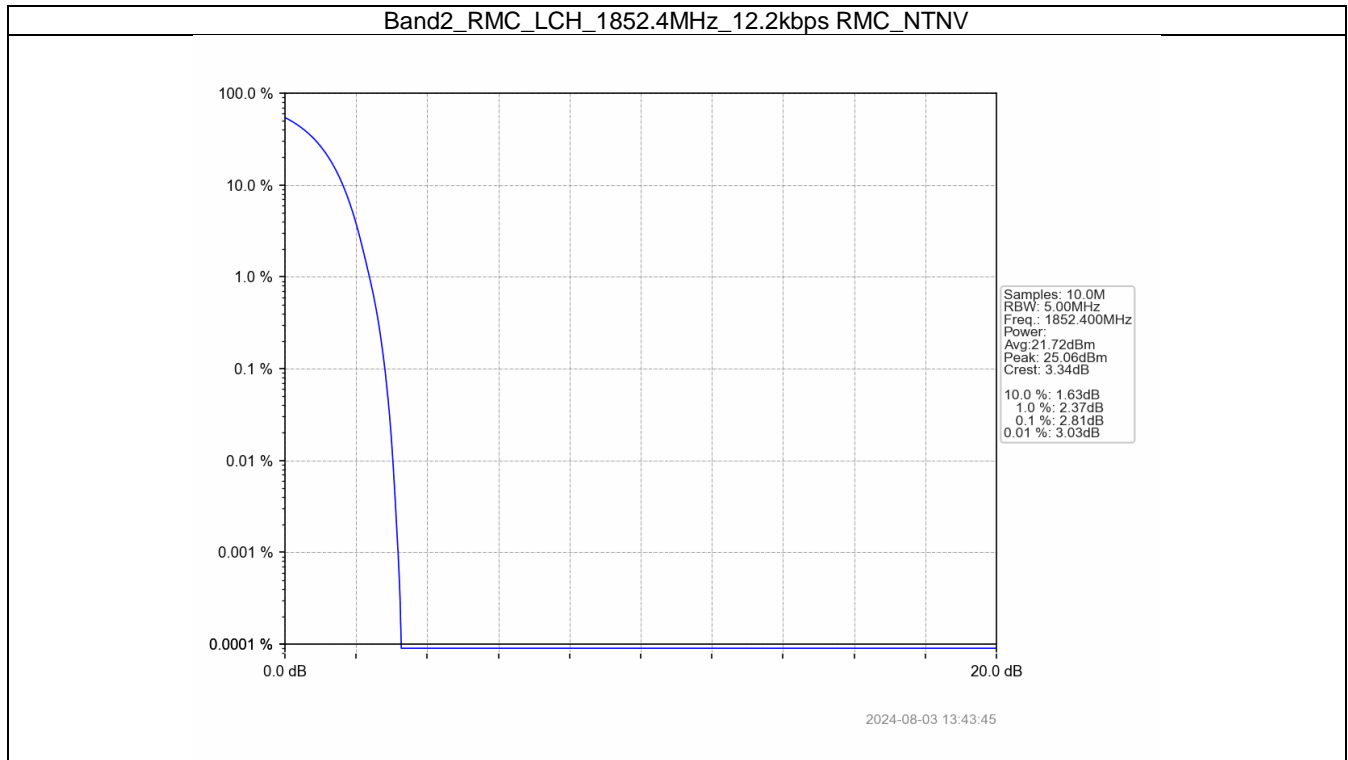
5.1 Test Result

5.1.1 Band2

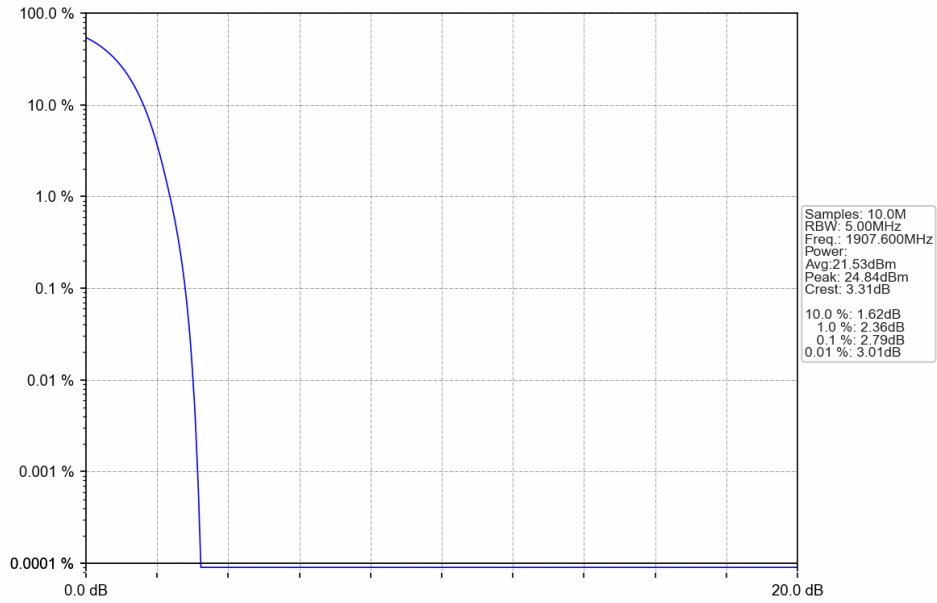
Band: 2						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	2.81	<=13	Pass
			1880	2.78	<=13	Pass
			1907.6	2.79	<=13	Pass
	HSDPA	Subtest 1	1852.4	5.62	<=13	Pass
			1880	5.76	<=13	Pass
			1907.6	5.65	<=13	Pass
	HSUPA	Subtest 1	1852.4	5.76	<=13	Pass
			1880	5.77	<=13	Pass
			1907.6	5.81	<=13	Pass

5.2 Test Graph

5.2.1 Band2

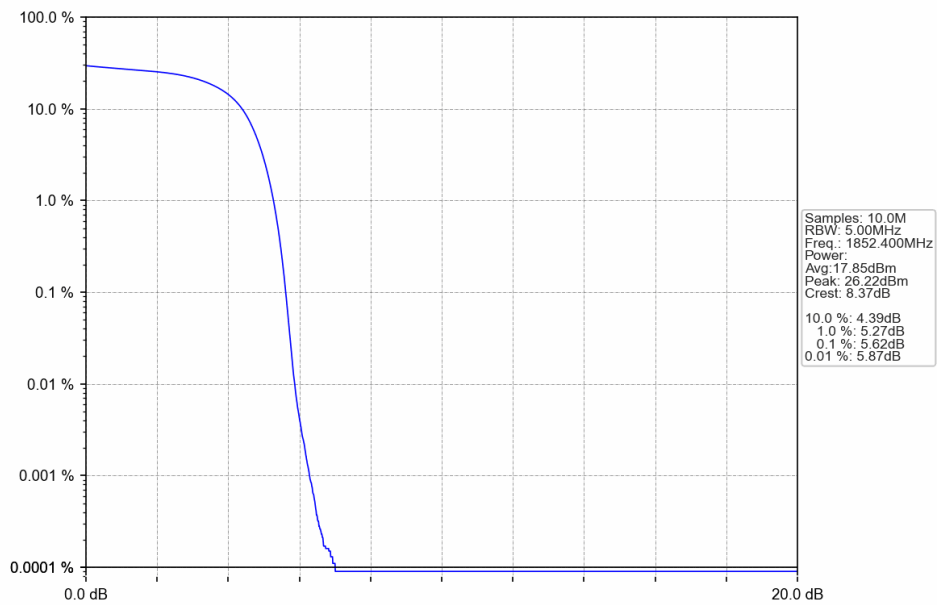


Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



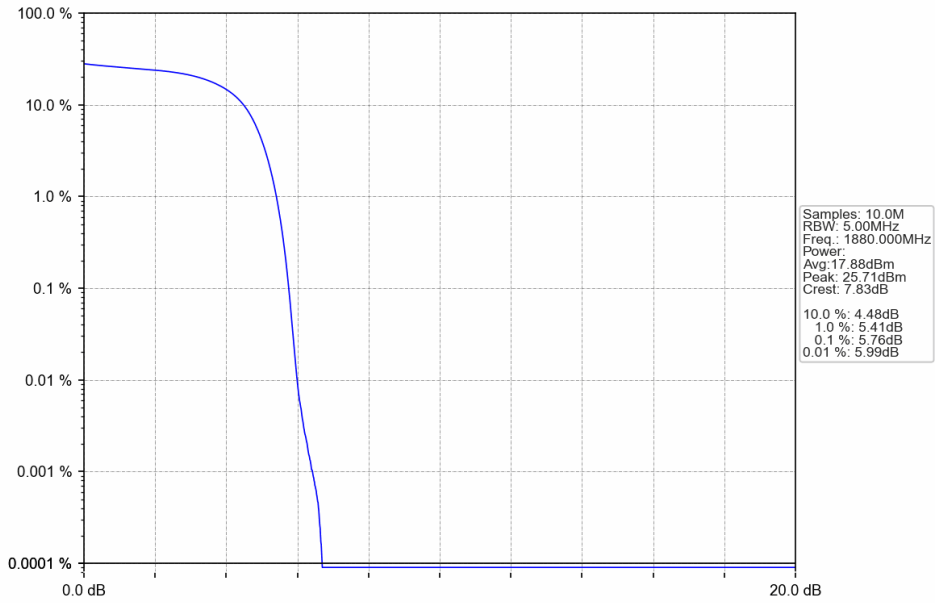
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Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



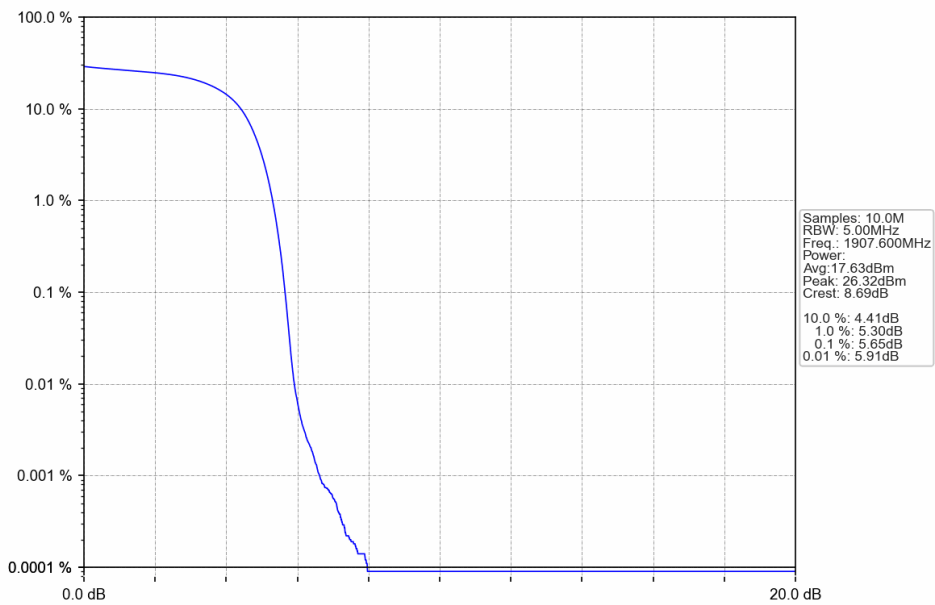
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Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV



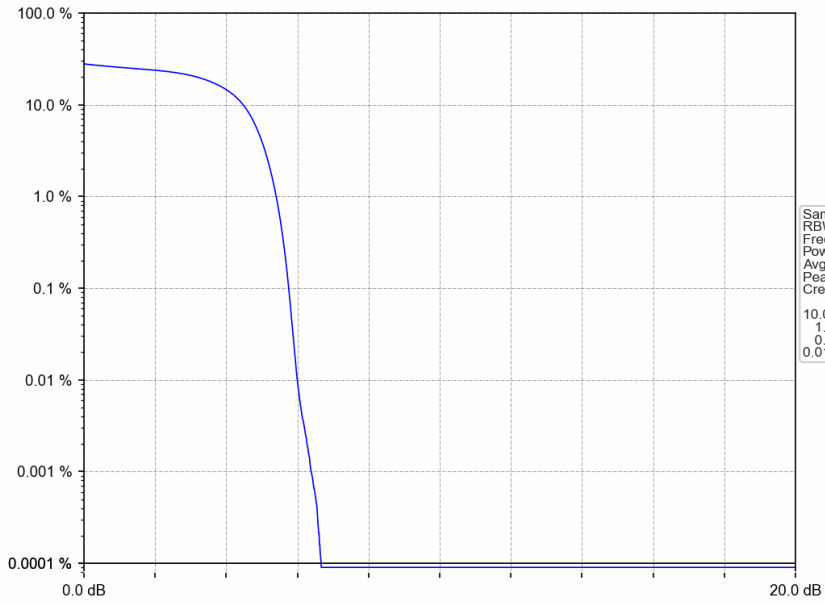
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Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



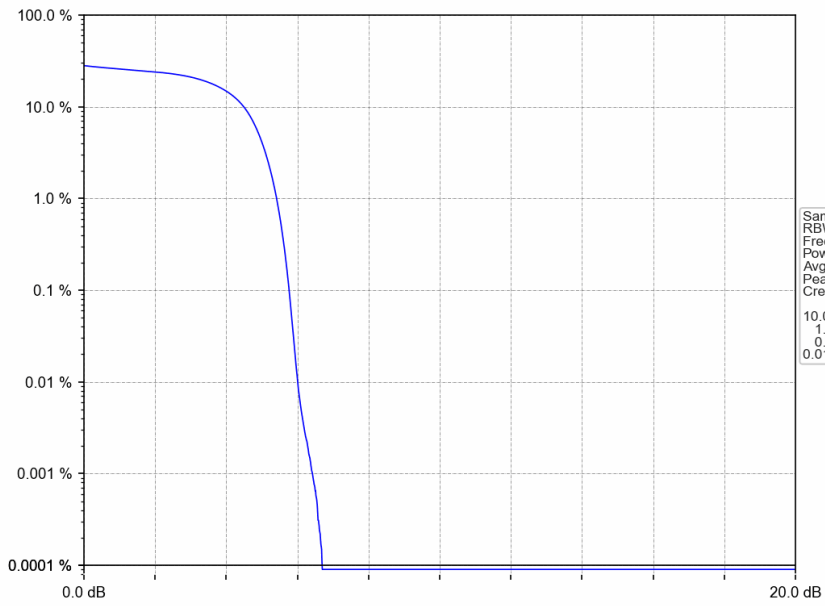
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Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



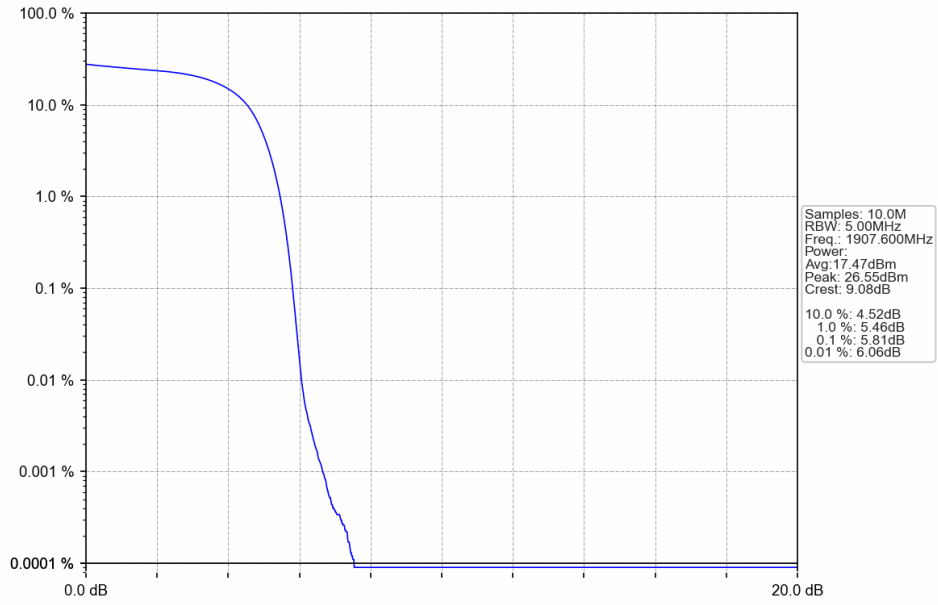
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Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV



2024-08-03 13:45:22

Band2_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



2024-08-03 13:45:36

6. Spurious Emission

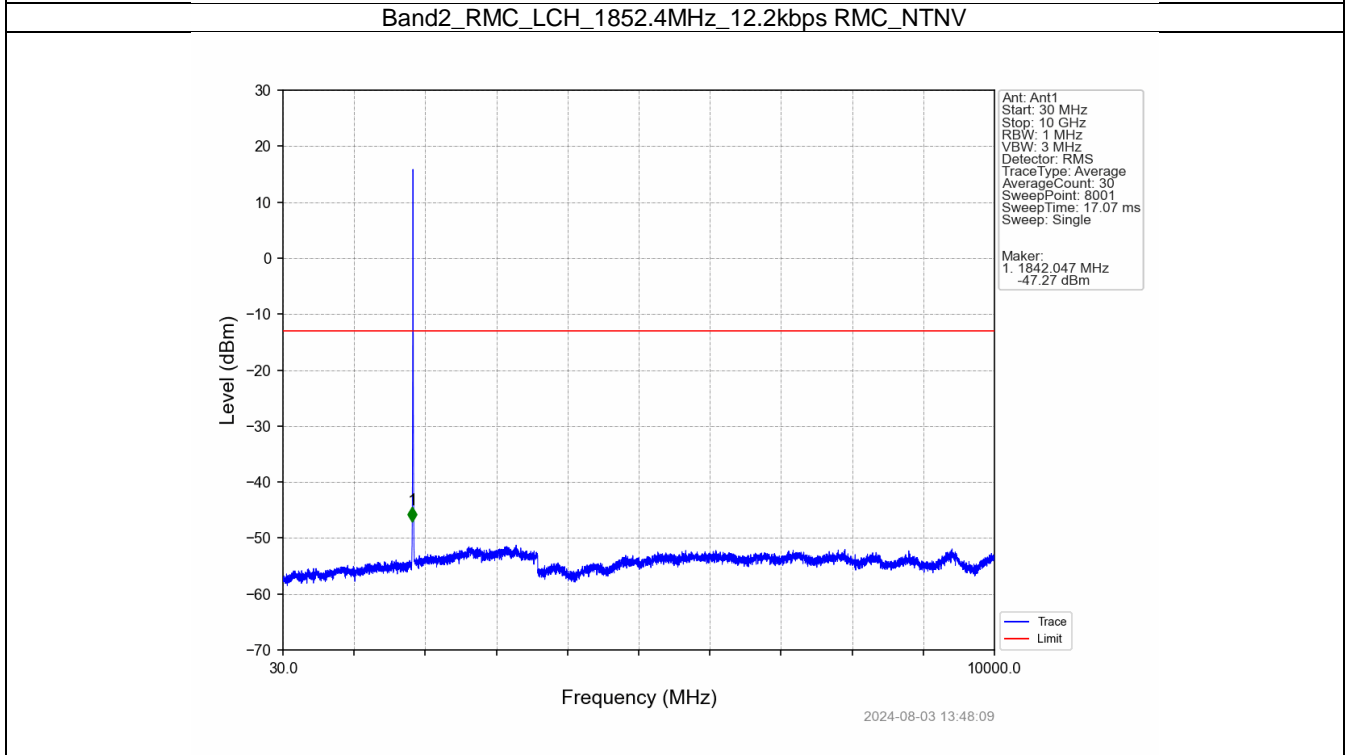
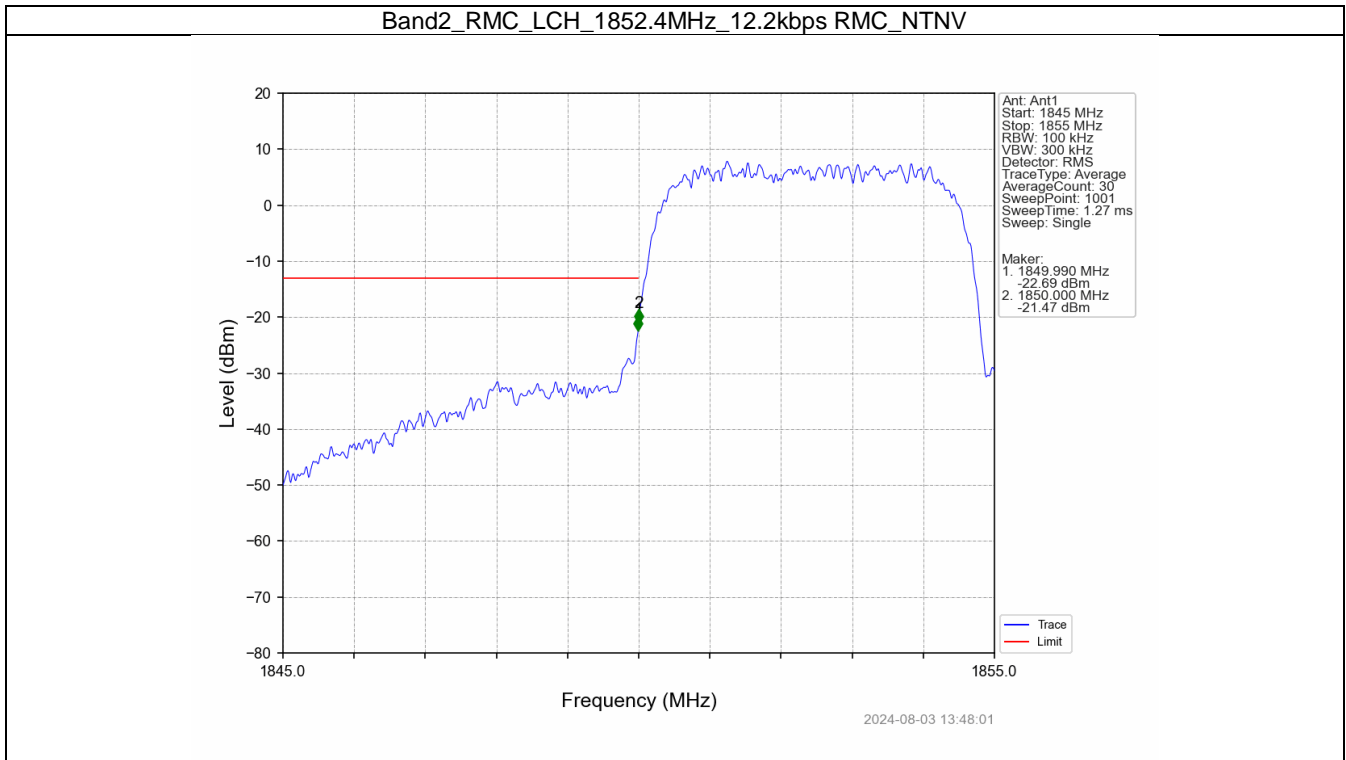
6.1 Test Result

6.1.1 Band2

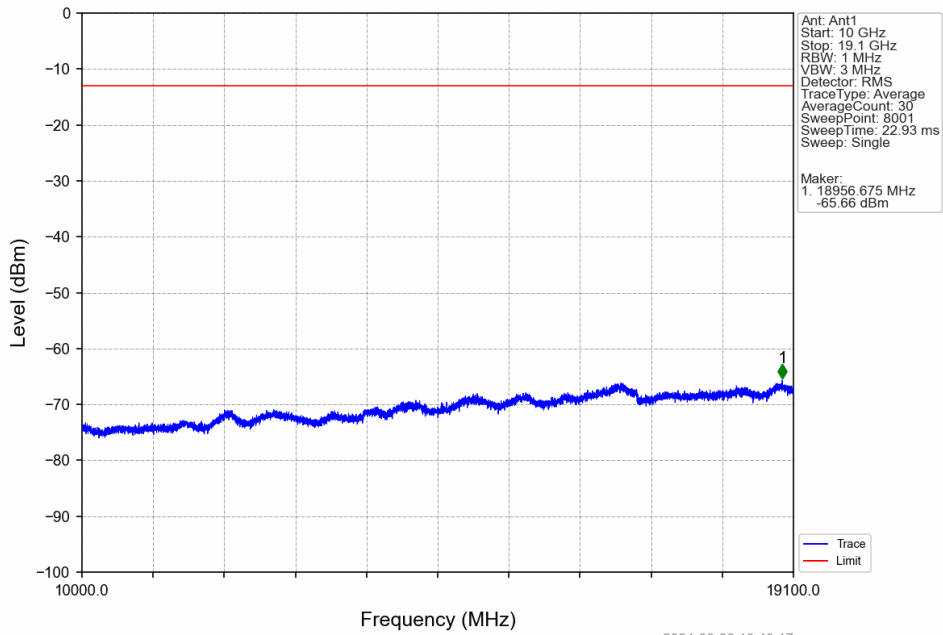
Band: 2						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	Refer To Test Graph		Pass
			1880	Refer To Test Graph		Pass
			1907.6	Refer To Test Graph		Pass
	HSDPA	Subtest 1	1852.4	Refer To Test Graph		Pass
			1880	Refer To Test Graph		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

6.2 Test Graph

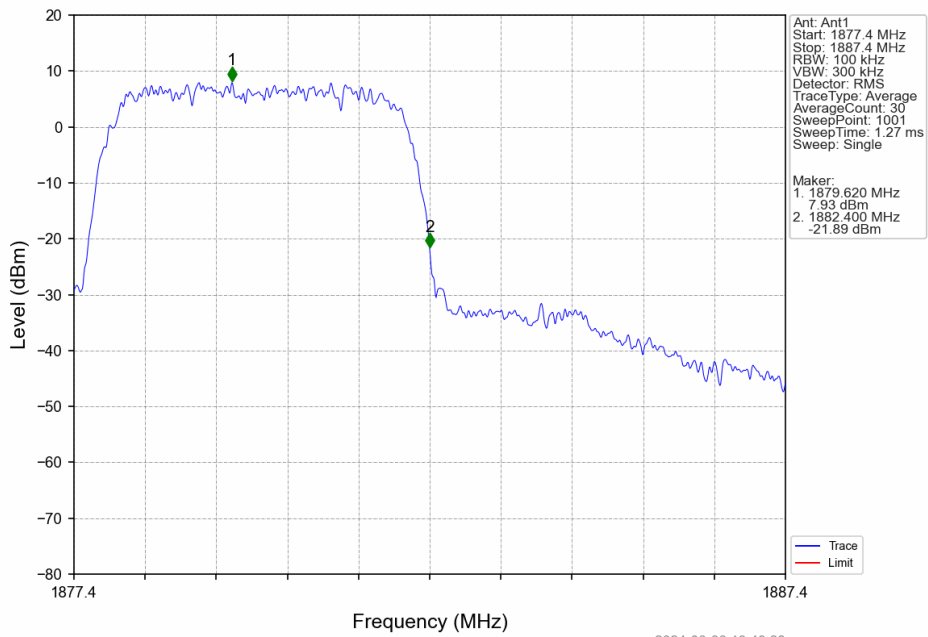
6.2.1 Band2



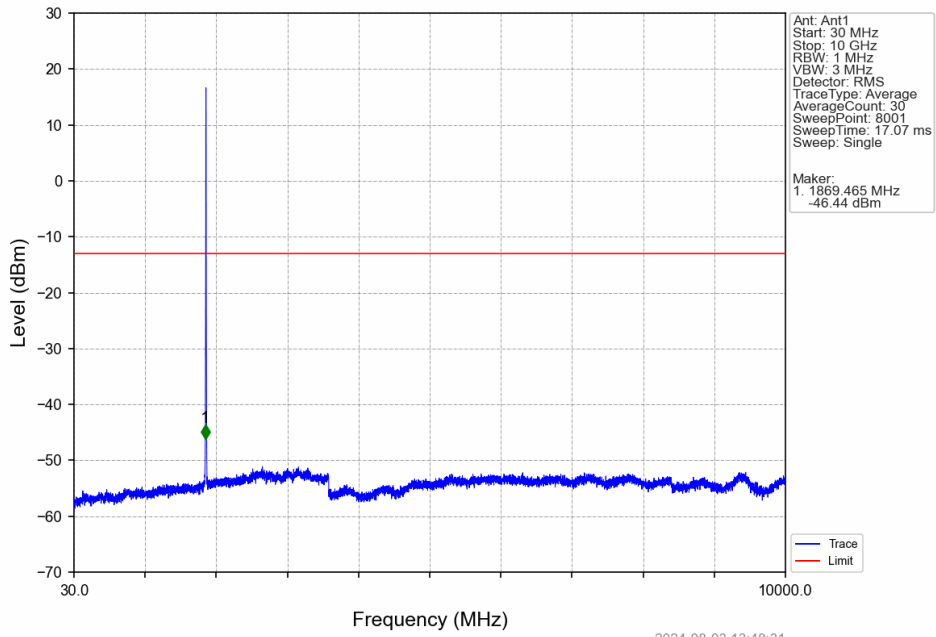
Band2_RMC_LCH_1852.4MHz_12.2kbps RMC_NTNV



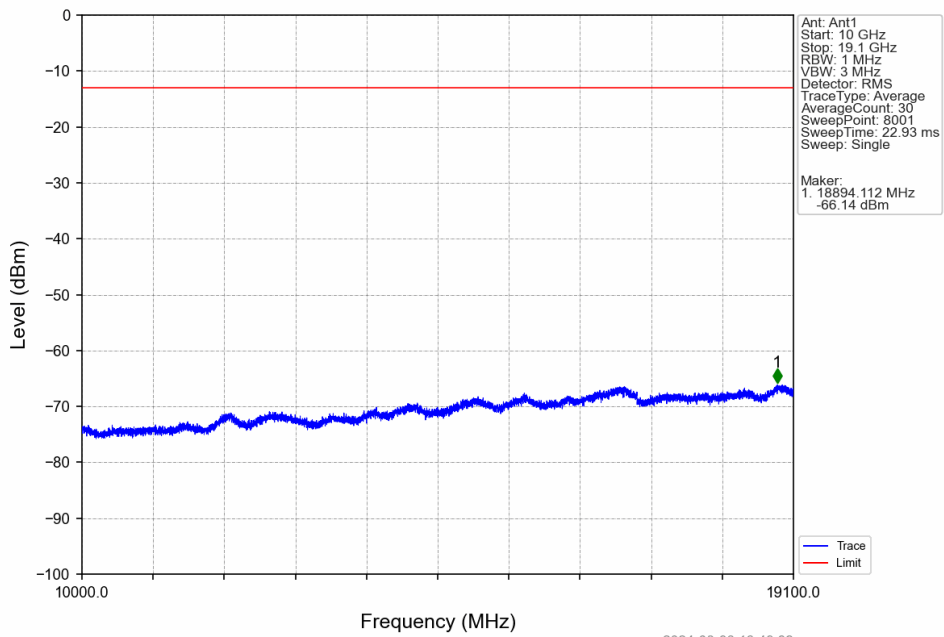
Band2_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



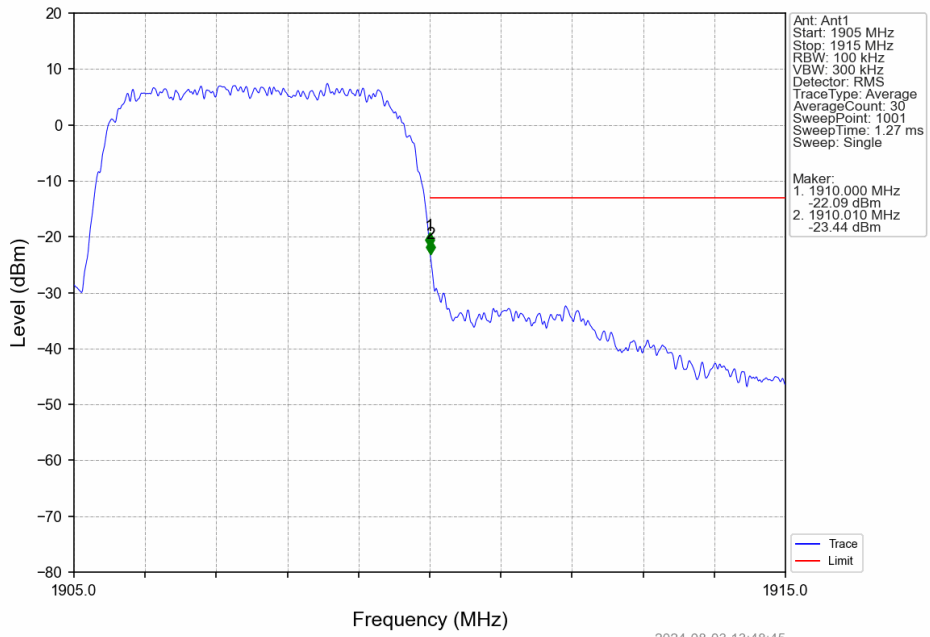
Band2_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



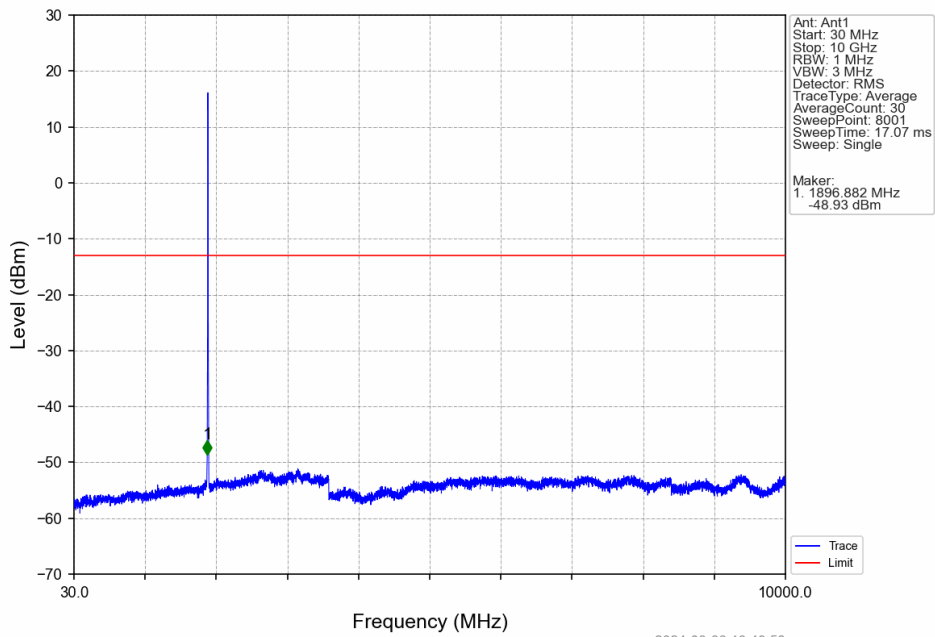
Band2_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



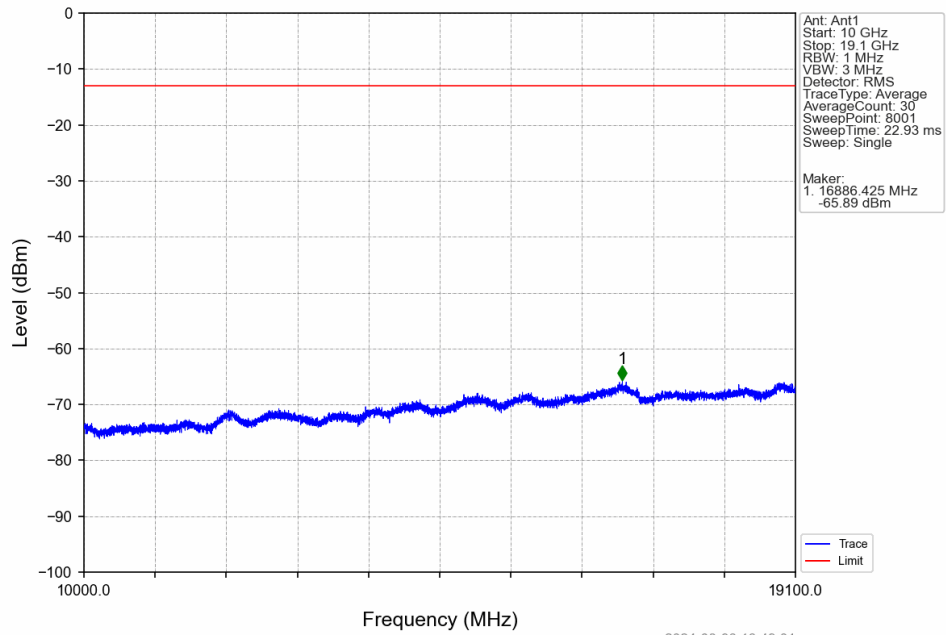
Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



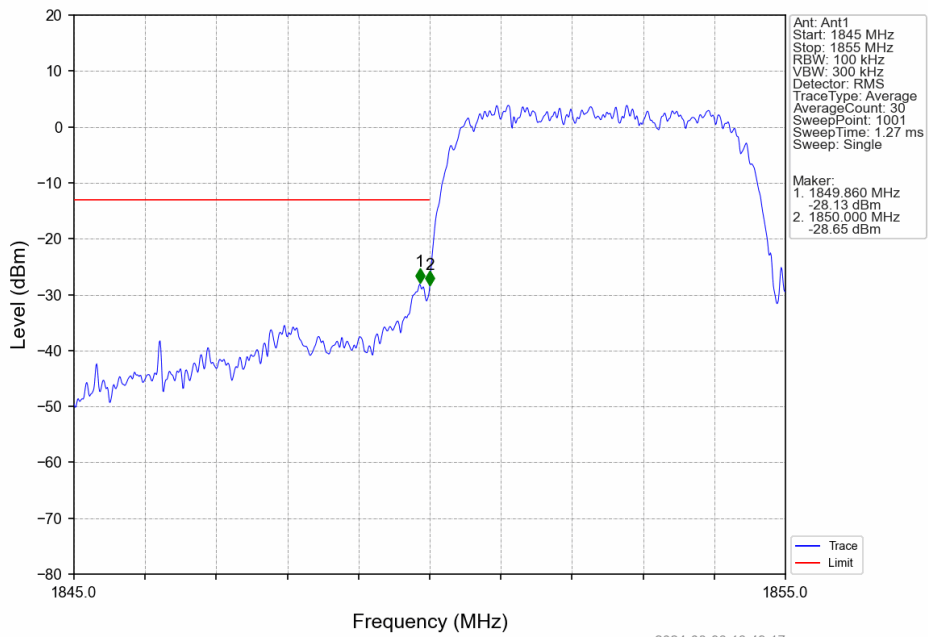
Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



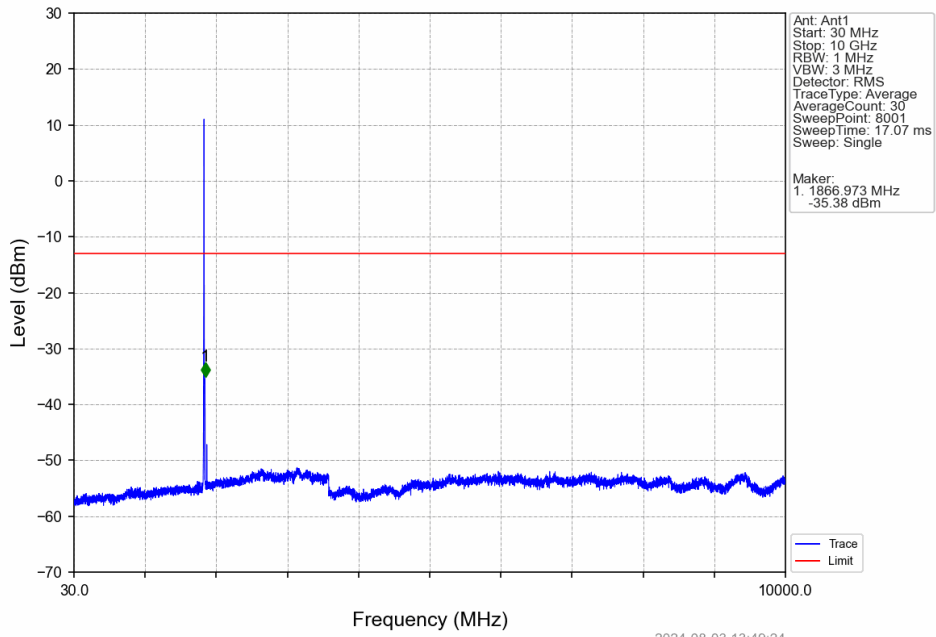
Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



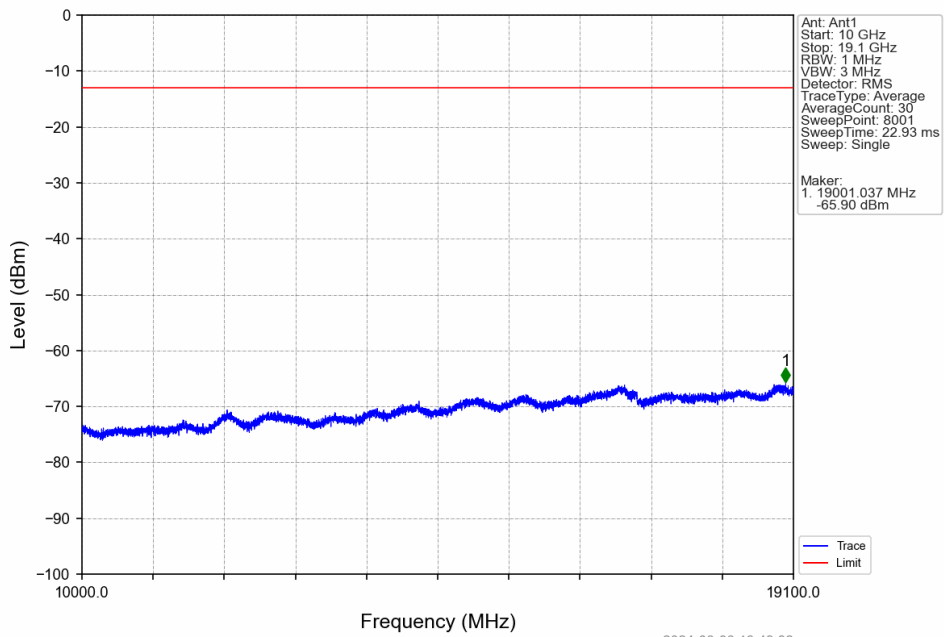
Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



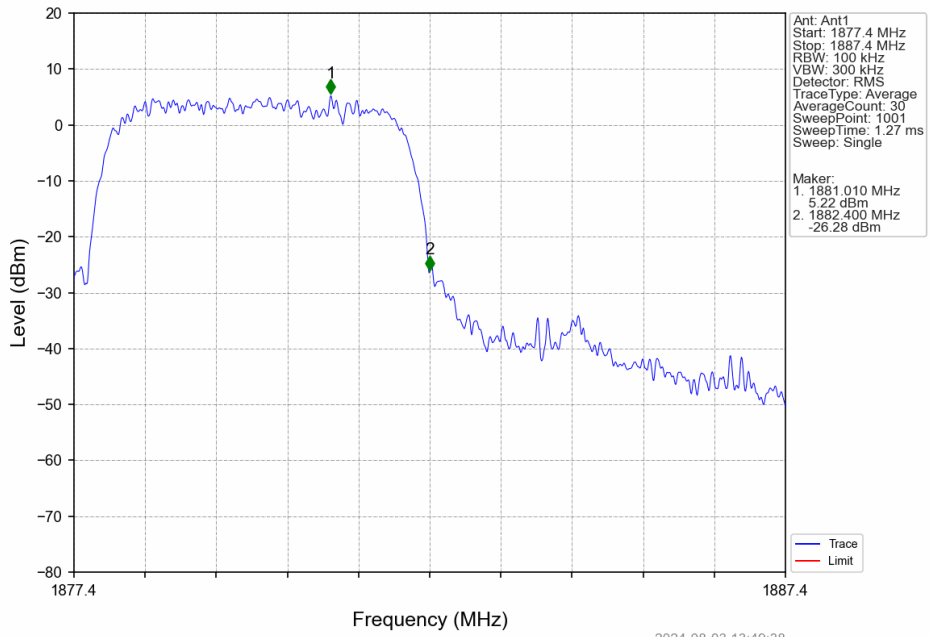
Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



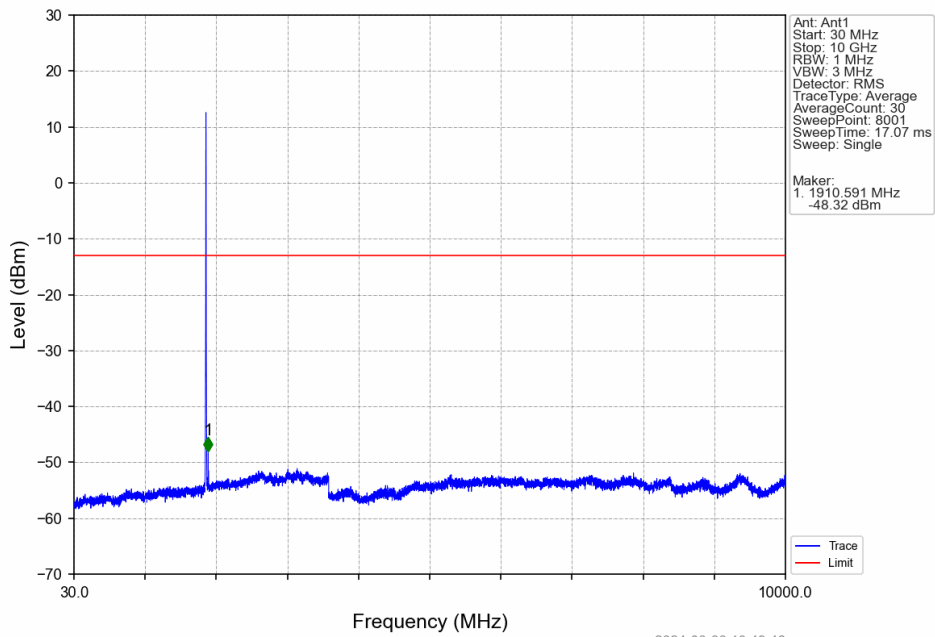
Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



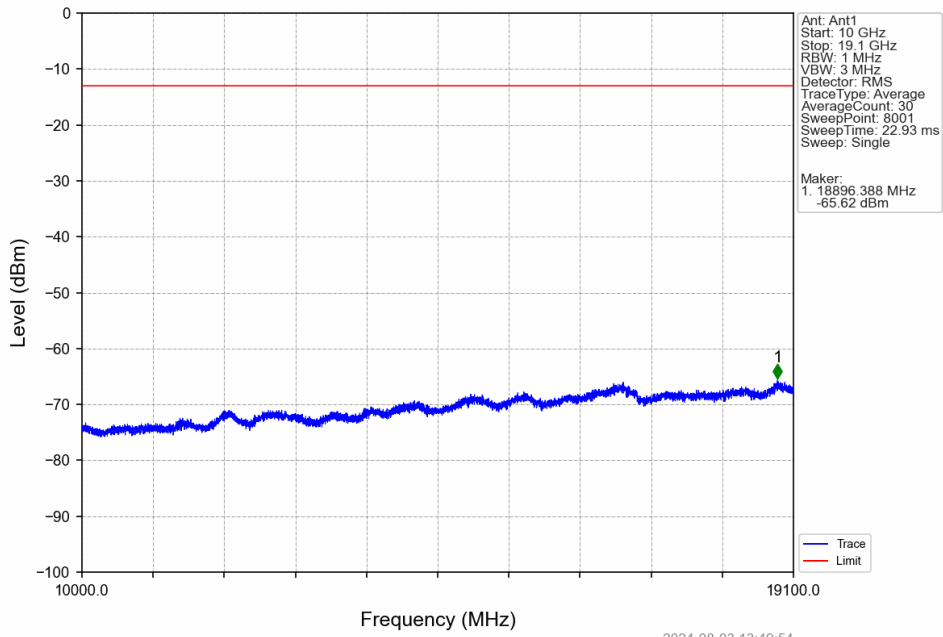
Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV



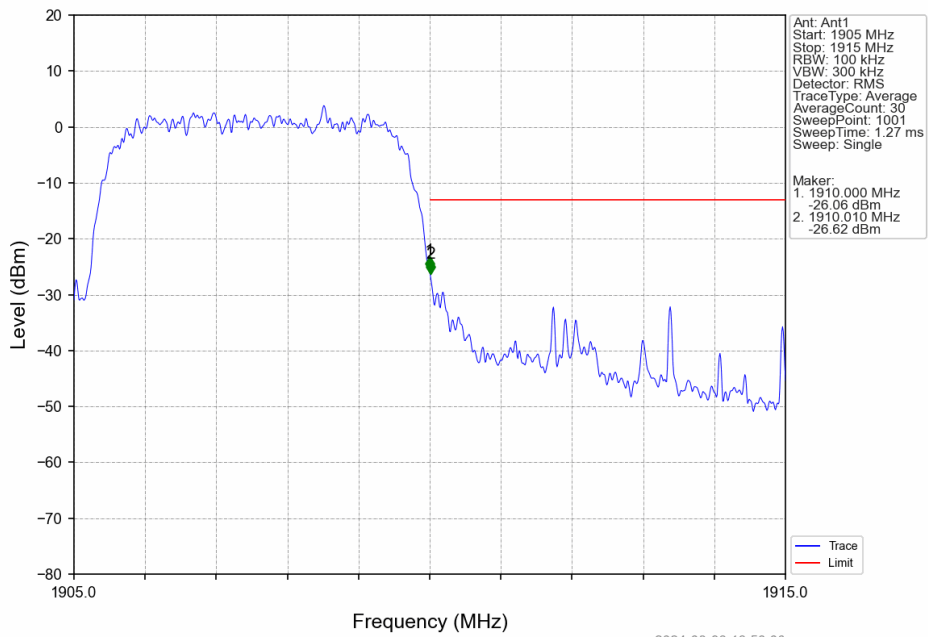
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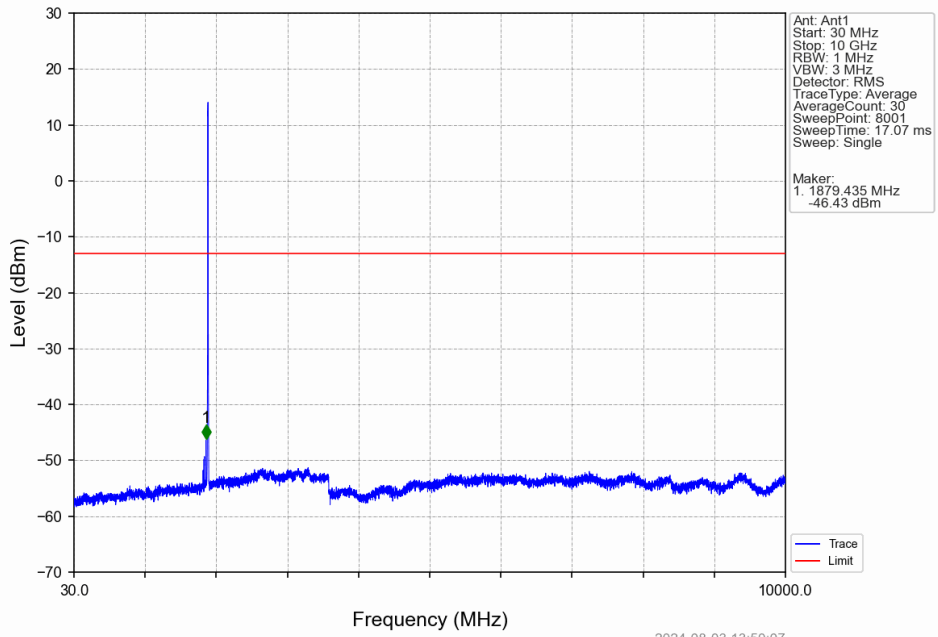
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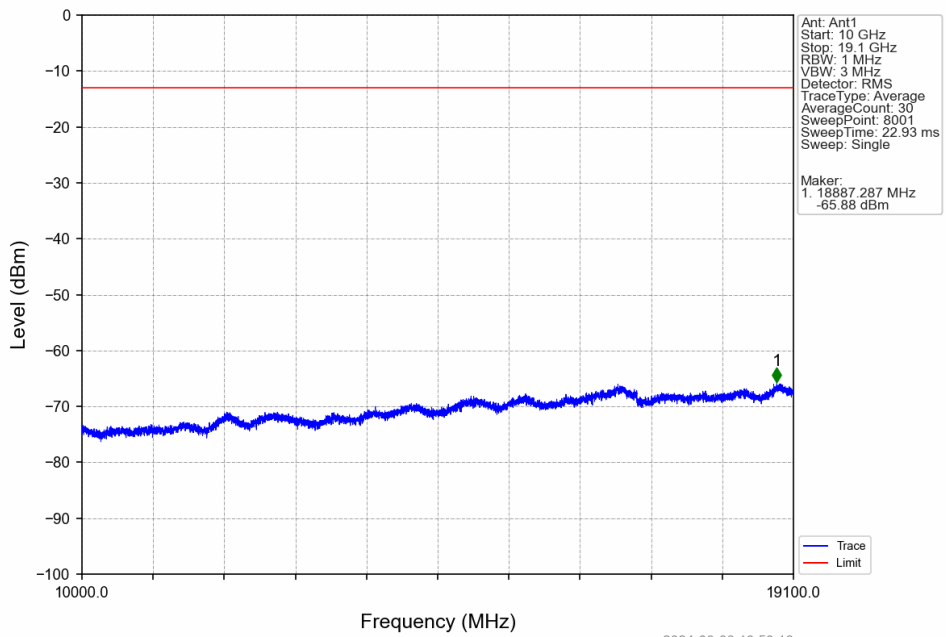
Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



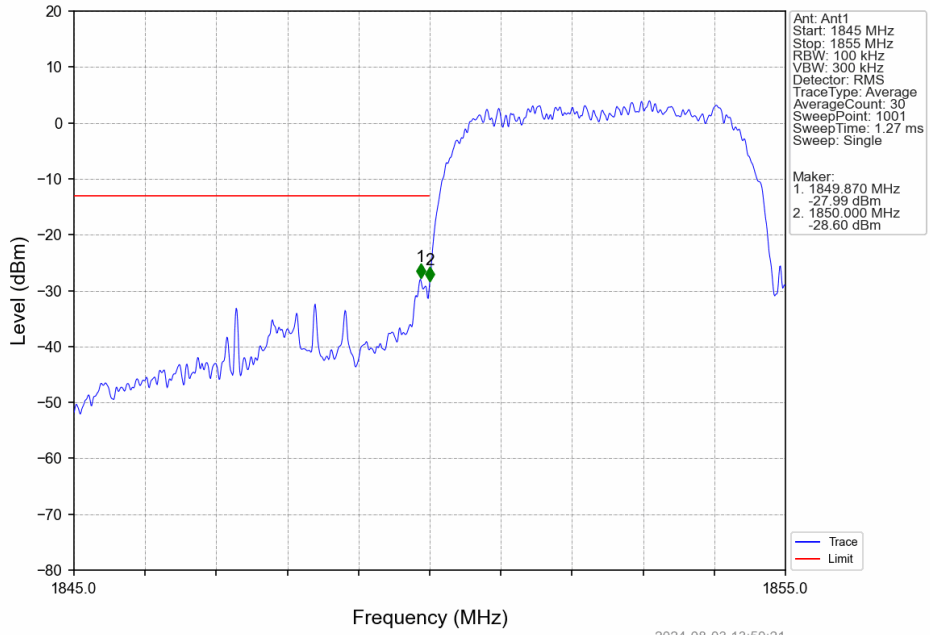
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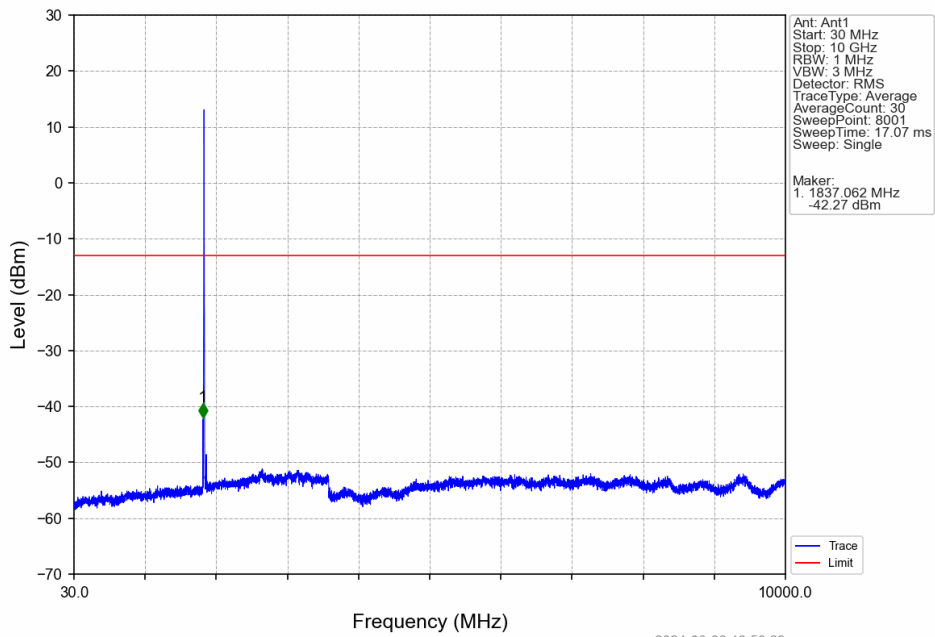
Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



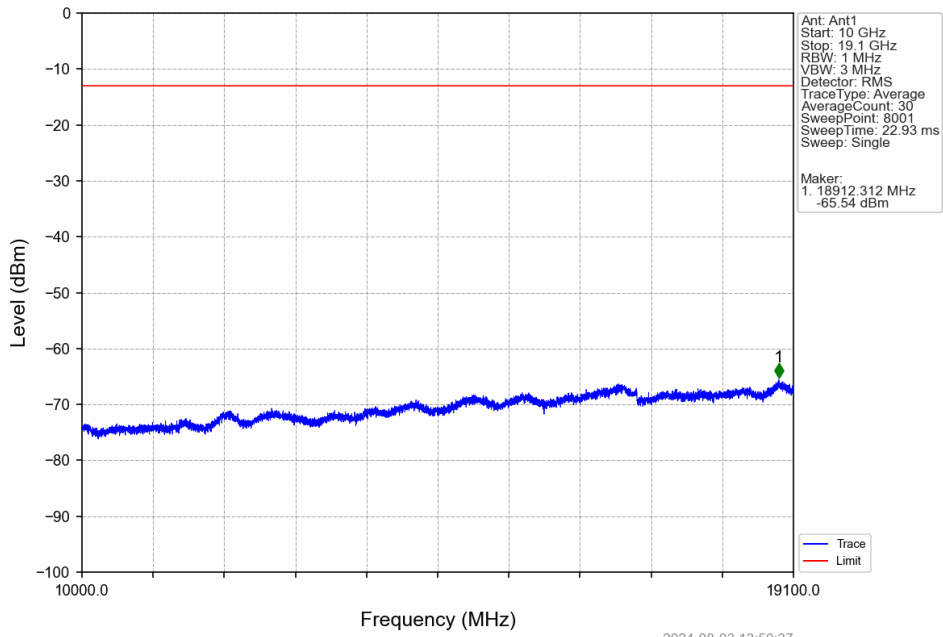
Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



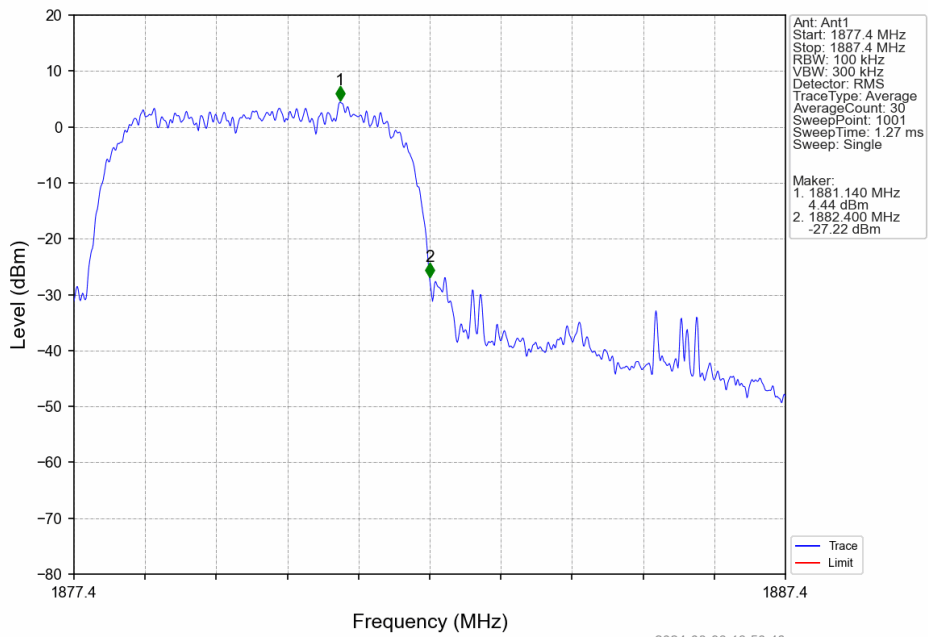
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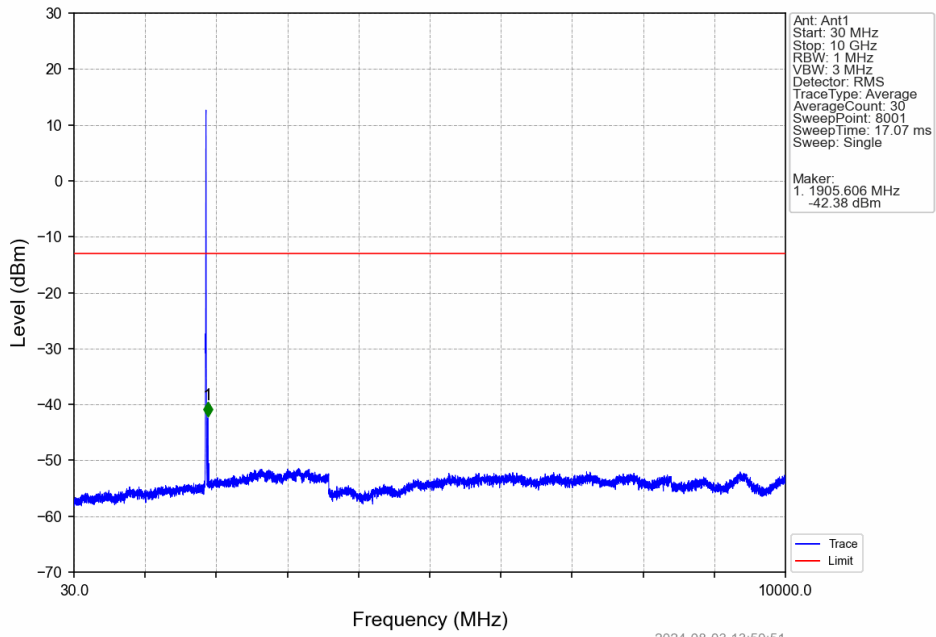
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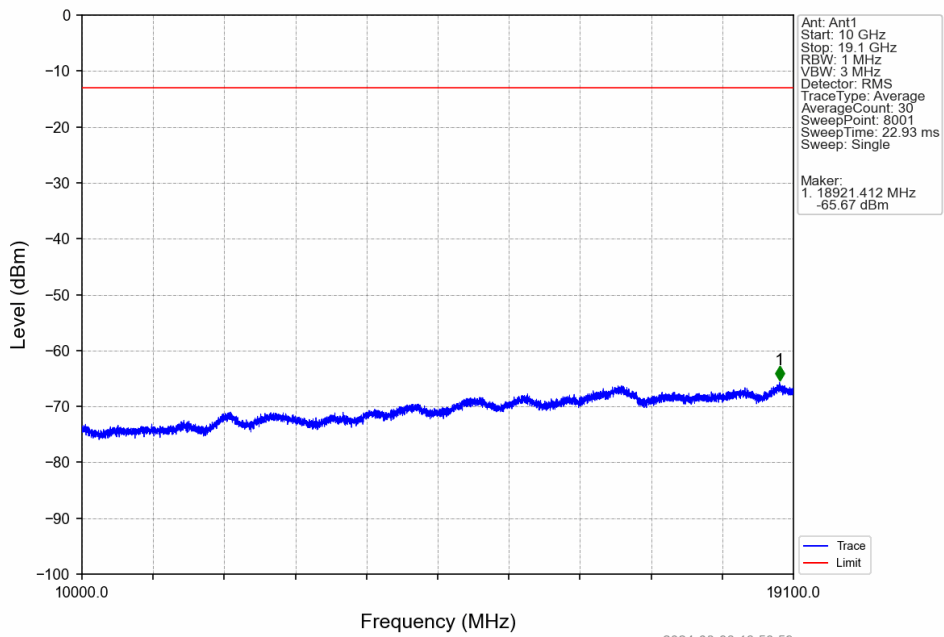
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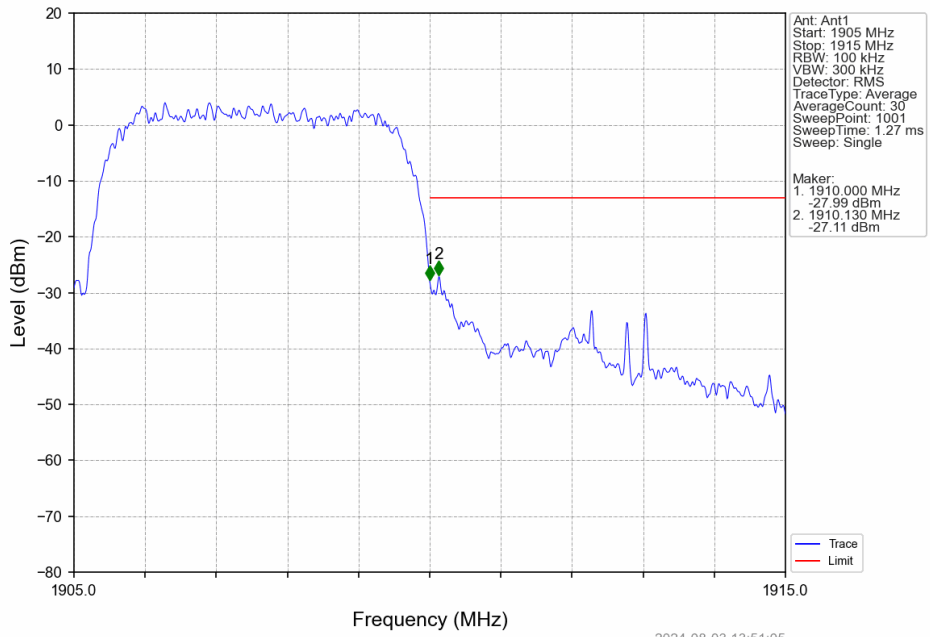
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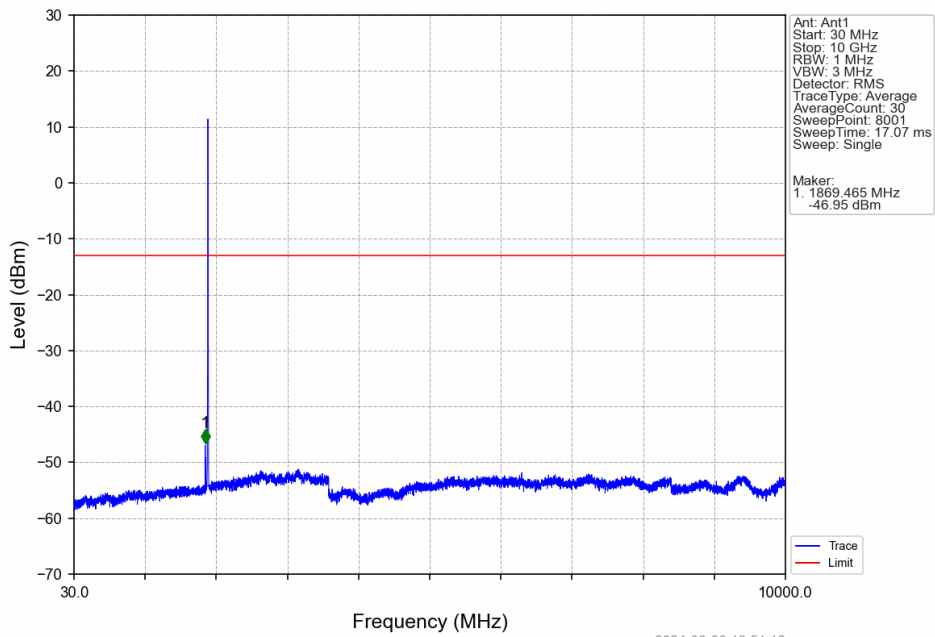
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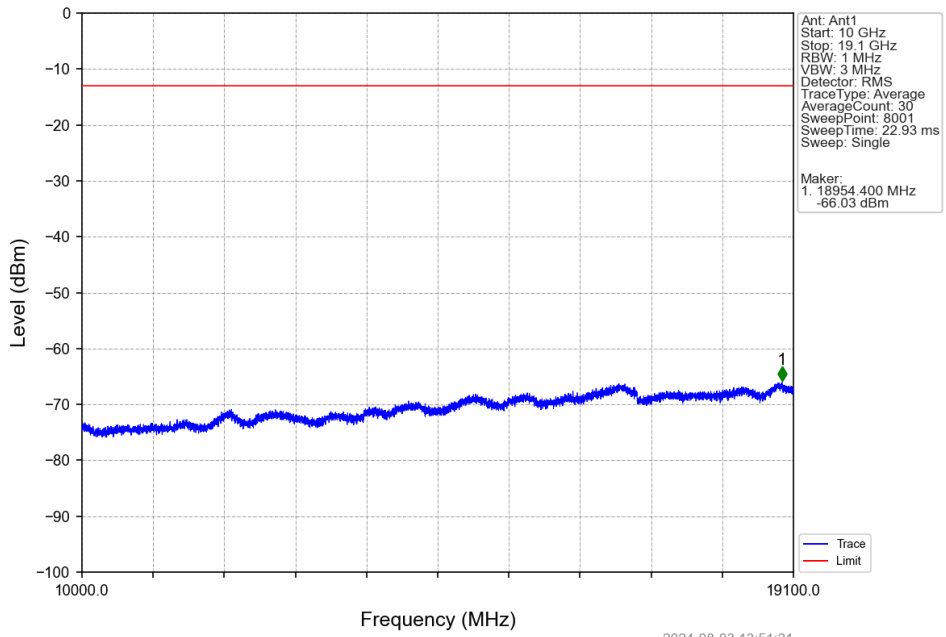
Band2_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



Band2_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



Band2_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



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7. Form731

7.1 Test Result

7.1.1 Form731_Power

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	0.1422	0.0110	ppm	4M24F9W	24E	21.53

7.1.2 Form731_EIRP

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	0.1754	0.0110	ppm	4M24F9W	24E	22.44