

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 Band5_ERP

Band: 5											
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict			
	Network	Subset				Result	Limit				
NTNV	RMC	12.2kbps RMC	826.4	23.54	-0.71	20.68	<=38.45	Pass			
			836.6	23.52	-0.71	20.66	<=38.45	Pass			
			846.6	23.44	-0.71	20.58	<=38.45	Pass			
	HSDPA		Subtest 1	826.4	21.23	-0.71	18.37	<=38.45	Pass		
			Subtest 2	826.4	21.16	-0.71	18.30	<=38.45	Pass		
			Subtest 3	826.4	21.20	-0.71	18.34	<=38.45	Pass		
			Subtest 4	826.4	21.15	-0.71	18.29	<=38.45	Pass		
			Subtest 1	836.6	21.22	-0.71	18.36	<=38.45	Pass		
			Subtest 2	836.6	21.22	-0.71	18.36	<=38.45	Pass		
			Subtest 3	836.6	21.31	-0.71	18.45	<=38.45	Pass		
			Subtest 4	836.6	21.27	-0.71	18.41	<=38.45	Pass		
			Subtest 1	846.6	21.34	-0.71	18.48	<=38.45	Pass		
			Subtest 2	846.6	21.25	-0.71	18.39	<=38.45	Pass		
			Subtest 3	846.6	21.36	-0.71	18.50	<=38.45	Pass		
			Subtest 4	846.6	21.30	-0.71	18.44	<=38.45	Pass		
			HSUPA		Subtest 1	826.4	19.08	-0.71	16.22	<=38.45	Pass
					Subtest 2	826.4	19.33	-0.71	16.47	<=38.45	Pass
					Subtest 3	826.4	18.84	-0.71	15.98	<=38.45	Pass
	Subtest 4	826.4			19.10	-0.71	16.24	<=38.45	Pass		
	Subtest 5	826.4			18.88	-0.71	16.02	<=38.45	Pass		
	Subtest 1	836.6			18.74	-0.71	15.88	<=38.45	Pass		
	Subtest 2	836.6			18.96	-0.71	16.10	<=38.45	Pass		
	Subtest 3	836.6			18.94	-0.71	16.08	<=38.45	Pass		
	Subtest 4	836.6			18.74	-0.71	15.88	<=38.45	Pass		
	Subtest 5	836.6			18.77	-0.71	15.91	<=38.45	Pass		
	Subtest 1	846.6			19.24	-0.71	16.38	<=38.45	Pass		
	Subtest 2	846.6			19.01	-0.71	16.15	<=38.45	Pass		
	Subtest 3	846.6			19.06	-0.71	16.20	<=38.45	Pass		
	Subtest 4	846.6			19.26	-0.71	16.40	<=38.45	Pass		
	Subtest 5	846.6			18.77	-0.71	15.91	<=38.45	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 Test Result

2.1.1 Band5

Band: 5							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	826.4	20	3.27	-6.258	-0.0076	-2.5 to 2.5	Pass
			3.85	-5.736	-0.0069	-2.5 to 2.5	Pass
			4.43	-7.296	-0.0088	-2.5 to 2.5	Pass
		-30	3.85	-5.271	-0.0064	-2.5 to 2.5	Pass

		-20	3.85	-8.948	-0.0108	-2.5 to 2.5	Pass	
		-10	3.85	-5.872	-0.0071	-2.5 to 2.5	Pass	
		0	3.85	-5.765	-0.0070	-2.5 to 2.5	Pass	
		10	3.85	-5.872	-0.0071	-2.5 to 2.5	Pass	
		30	3.85	-6.237	-0.0075	-2.5 to 2.5	Pass	
		40	3.85	-7.138	-0.0086	-2.5 to 2.5	Pass	
		50	3.85	-6.058	-0.0073	-2.5 to 2.5	Pass	
	836.6	20	3.27	-6.802	-0.0081	-2.5 to 2.5	Pass	
			3.85	-4.742	-0.0057	-2.5 to 2.5	Pass	
			4.43	-3.541	-0.0042	-2.5 to 2.5	Pass	
		-30	3.85	-4.427	-0.0053	-2.5 to 2.5	Pass	
		-20	3.85	-5.550	-0.0066	-2.5 to 2.5	Pass	
		-10	3.85	-7.725	-0.0092	-2.5 to 2.5	Pass	
		0	3.85	-6.781	-0.0081	-2.5 to 2.5	Pass	
		10	3.85	-6.630	-0.0079	-2.5 to 2.5	Pass	
		30	3.85	-3.583	-0.0043	-2.5 to 2.5	Pass	
		40	3.85	-4.542	-0.0054	-2.5 to 2.5	Pass	
		50	3.85	-6.566	-0.0078	-2.5 to 2.5	Pass	
		846.6	20	3.27	-5.872	-0.0069	-2.5 to 2.5	Pass
				3.85	-4.163	-0.0049	-2.5 to 2.5	Pass
	4.43			-6.130	-0.0072	-2.5 to 2.5	Pass	
	-30		3.85	-4.606	-0.0054	-2.5 to 2.5	Pass	
	-20		3.85	-4.184	-0.0049	-2.5 to 2.5	Pass	
	-10		3.85	-4.041	-0.0048	-2.5 to 2.5	Pass	
	0		3.85	-5.078	-0.0060	-2.5 to 2.5	Pass	
	10		3.85	-4.728	-0.0056	-2.5 to 2.5	Pass	
	30		3.85	-4.177	-0.0049	-2.5 to 2.5	Pass	
	40		3.85	-6.430	-0.0076	-2.5 to 2.5	Pass	
	50		3.85	-5.980	-0.0071	-2.5 to 2.5	Pass	
	HSDPA		826.4	20	3.27	-5.264	-0.0064	-2.5 to 2.5
3.85					-8.619	-0.0104	-2.5 to 2.5	Pass
4.43		-6.008			-0.0073	-2.5 to 2.5	Pass	
-30		3.85		-6.731	-0.0081	-2.5 to 2.5	Pass	
-20		3.85		-6.773	-0.0082	-2.5 to 2.5	Pass	
-10		3.85		-7.753	-0.0094	-2.5 to 2.5	Pass	
0		3.85		-4.213	-0.0051	-2.5 to 2.5	Pass	
10		3.85		-6.187	-0.0075	-2.5 to 2.5	Pass	
30		3.85		-5.901	-0.0071	-2.5 to 2.5	Pass	
40		3.85		-5.057	-0.0061	-2.5 to 2.5	Pass	
50		3.85		-7.002	-0.0085	-2.5 to 2.5	Pass	
836.6		20		3.27	-4.284	-0.0051	-2.5 to 2.5	Pass
				3.85	-8.018	-0.0096	-2.5 to 2.5	Pass
			4.43	-6.559	-0.0078	-2.5 to 2.5	Pass	
		-30	3.85	-8.469	-0.0101	-2.5 to 2.5	Pass	
		-20	3.85	-6.716	-0.0080	-2.5 to 2.5	Pass	
		-10	3.85	-4.385	-0.0052	-2.5 to 2.5	Pass	
		0	3.85	-5.701	-0.0068	-2.5 to 2.5	Pass	
		10	3.85	-6.166	-0.0074	-2.5 to 2.5	Pass	
		30	3.85	-7.396	-0.0088	-2.5 to 2.5	Pass	
		40	3.85	-7.796	-0.0093	-2.5 to 2.5	Pass	
		50	3.85	-6.394	-0.0076	-2.5 to 2.5	Pass	
		846.6	20	3.27	-5.021	-0.0059	-2.5 to 2.5	Pass
				3.85	-7.253	-0.0086	-2.5 to 2.5	Pass
4.43				-7.610	-0.0090	-2.5 to 2.5	Pass	
-30			3.85	-5.629	-0.0066	-2.5 to 2.5	Pass	
-20			3.85	-7.124	-0.0084	-2.5 to 2.5	Pass	
-10			3.85	-5.586	-0.0066	-2.5 to 2.5	Pass	
0		3.85	-5.851	-0.0069	-2.5 to 2.5	Pass		

		10	3.85	-5.350	-0.0063	-2.5 to 2.5	Pass
		30	3.85	-5.307	-0.0063	-2.5 to 2.5	Pass
		40	3.85	-7.904	-0.0093	-2.5 to 2.5	Pass
		50	3.85	-5.815	-0.0069	-2.5 to 2.5	Pass
HSUPA	826.4	20	3.27	-2.582	-0.0031	-2.5 to 2.5	Pass
			3.85	-3.941	-0.0048	-2.5 to 2.5	Pass
			4.43	-4.120	-0.0050	-2.5 to 2.5	Pass
		-30	3.85	-5.364	-0.0065	-2.5 to 2.5	Pass
		-20	3.85	-5.722	-0.0069	-2.5 to 2.5	Pass
		-10	3.85	-2.861	-0.0035	-2.5 to 2.5	Pass
		0	3.85	-1.996	-0.0024	-2.5 to 2.5	Pass
		10	3.85	-5.028	-0.0061	-2.5 to 2.5	Pass
		30	3.85	-6.588	-0.0080	-2.5 to 2.5	Pass
		40	3.85	-3.905	-0.0047	-2.5 to 2.5	Pass
		50	3.85	-2.060	-0.0025	-2.5 to 2.5	Pass
		836.6	20	3.27	-5.343	-0.0064	-2.5 to 2.5
	3.85			-5.600	-0.0067	-2.5 to 2.5	Pass
	4.43			-2.017	-0.0024	-2.5 to 2.5	Pass
	-30		3.85	-3.383	-0.0040	-2.5 to 2.5	Pass
	-20		3.85	-1.967	-0.0024	-2.5 to 2.5	Pass
	-10		3.85	-3.619	-0.0043	-2.5 to 2.5	Pass
	0		3.85	-4.914	-0.0059	-2.5 to 2.5	Pass
	10		3.85	-2.325	-0.0028	-2.5 to 2.5	Pass
	30		3.85	-2.990	-0.0036	-2.5 to 2.5	Pass
	40		3.85	-1.724	-0.0021	-2.5 to 2.5	Pass
	50		3.85	-2.847	-0.0034	-2.5 to 2.5	Pass
	846.6		20	3.27	-2.232	-0.0026	-2.5 to 2.5
		3.85		-2.990	-0.0035	-2.5 to 2.5	Pass
		4.43		-3.269	-0.0039	-2.5 to 2.5	Pass
		-30	3.85	-3.841	-0.0045	-2.5 to 2.5	Pass
		-20	3.85	-1.717	-0.0020	-2.5 to 2.5	Pass
		-10	3.85	-2.174	-0.0026	-2.5 to 2.5	Pass
		0	3.85	-2.897	-0.0034	-2.5 to 2.5	Pass
		10	3.85	-1.602	-0.0019	-2.5 to 2.5	Pass
30		3.85	-2.003	-0.0024	-2.5 to 2.5	Pass	
40		3.85	-2.482	-0.0029	-2.5 to 2.5	Pass	
50		3.85	-0.737	-0.0009	-2.5 to 2.5	Pass	

3. Modulation Characteristics

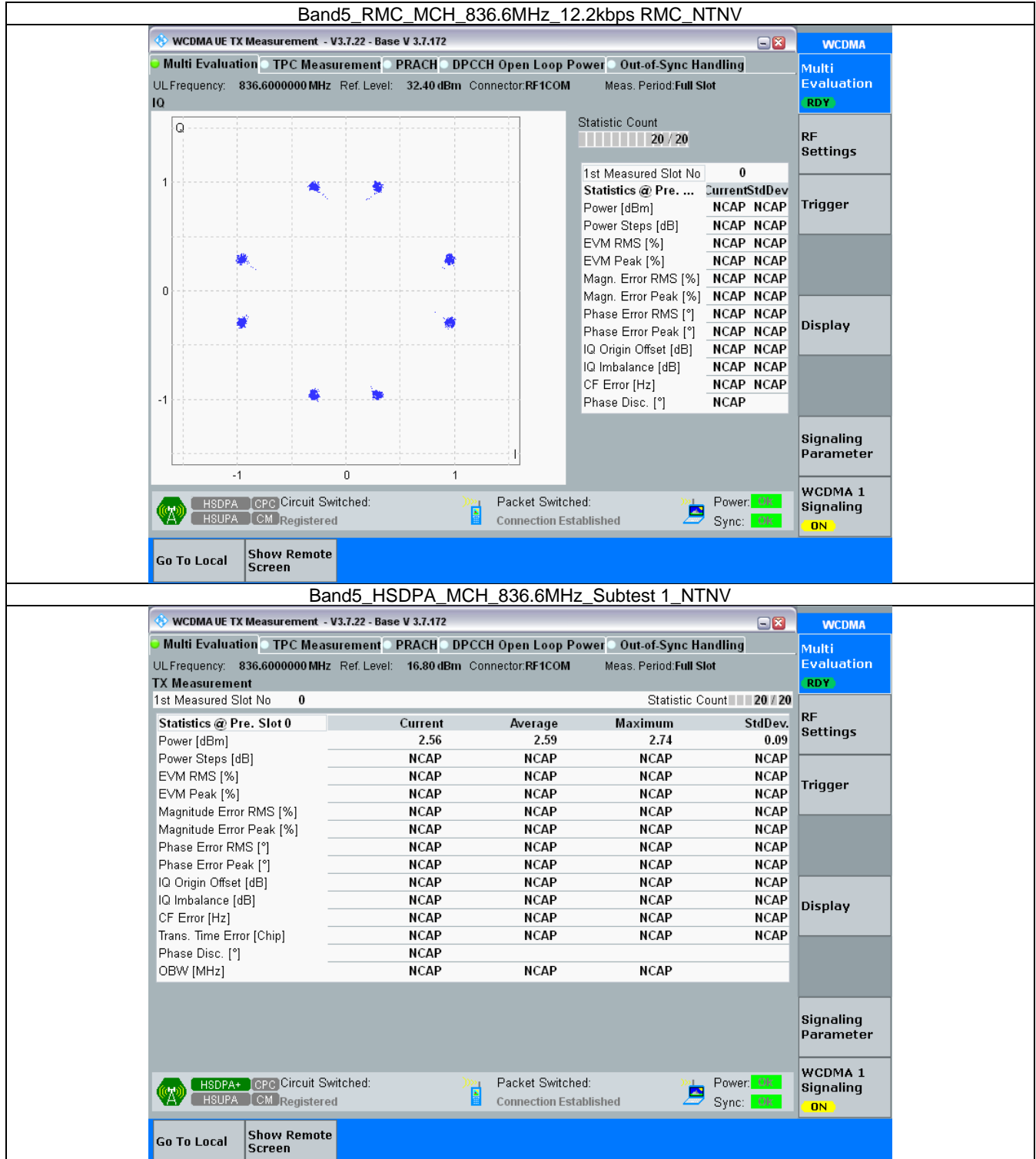
3.1 Test Result

3.1.1 Band5

Band: 5						
ENV	Mode		Frequency (MHz)	Modulation Characteristics		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	836.6	Refer To Test Graph		Pass
	HSDPA	Subtest 1	836.6	Refer To Test Graph		Pass
	HSUPA	Subtest 1	836.6	Refer To Test Graph		Pass

3.2 Test Graph

3.2.1 Band5



Band5_HSUPA_MCH_836.6MHz_Subtest 1_NTNV

WCDMA UE TX Measurement - V3.7.22 - Base V 3.7.172

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

UL Frequency: 836.600000MHz Ref. Level: 34.20 dBm Connector:RF1COM Meas. Period:Full Slot

TX Measurement

1st Measured Slot No: 0 Statistic Count: 20 / 20

Statistics @ Pre. Slot 0	Current	Average	Maximum	StdDev.
Power [dBm]	11.56	10.79	12.47	1.12
Power Steps [dB]	NCAP	NCAP	NCAP	NCAP
EVM RMS [%]	NCAP	NCAP	NCAP	NCAP
EVM Peak [%]	NCAP	NCAP	NCAP	NCAP
Magnitude Error RMS [%]	NCAP	NCAP	NCAP	NCAP
Magnitude Error Peak [%]	NCAP	NCAP	NCAP	NCAP
Phase Error RMS [°]	NCAP	NCAP	NCAP	NCAP
Phase Error Peak [°]	NCAP	NCAP	NCAP	NCAP
IQ Origin Offset [dB]	NCAP	NCAP	NCAP	NCAP
IQ Imbalance [dB]	NCAP	NCAP	NCAP	NCAP
CF Error [Hz]	NCAP	NCAP	NCAP	NCAP
Trans. Time Error [Chip]	NCAP	NCAP	NCAP	NCAP
Phase Disc. [°]	NCAP			
OBW [MHz]	NCAP	NCAP	NCAP	

WCDMA

Multi Evaluation

RDY

RF Settings

Trigger

Display

Signaling Parameter

WCDMA 1 Signaling

ON

HSDPA+ CPO Circuit Switched
 HSUPA CM Registered

Packet Switched: Connection Established

Power: ON
 Sync: ON

Go To Local
Show Remote Screen

4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band5_OBW

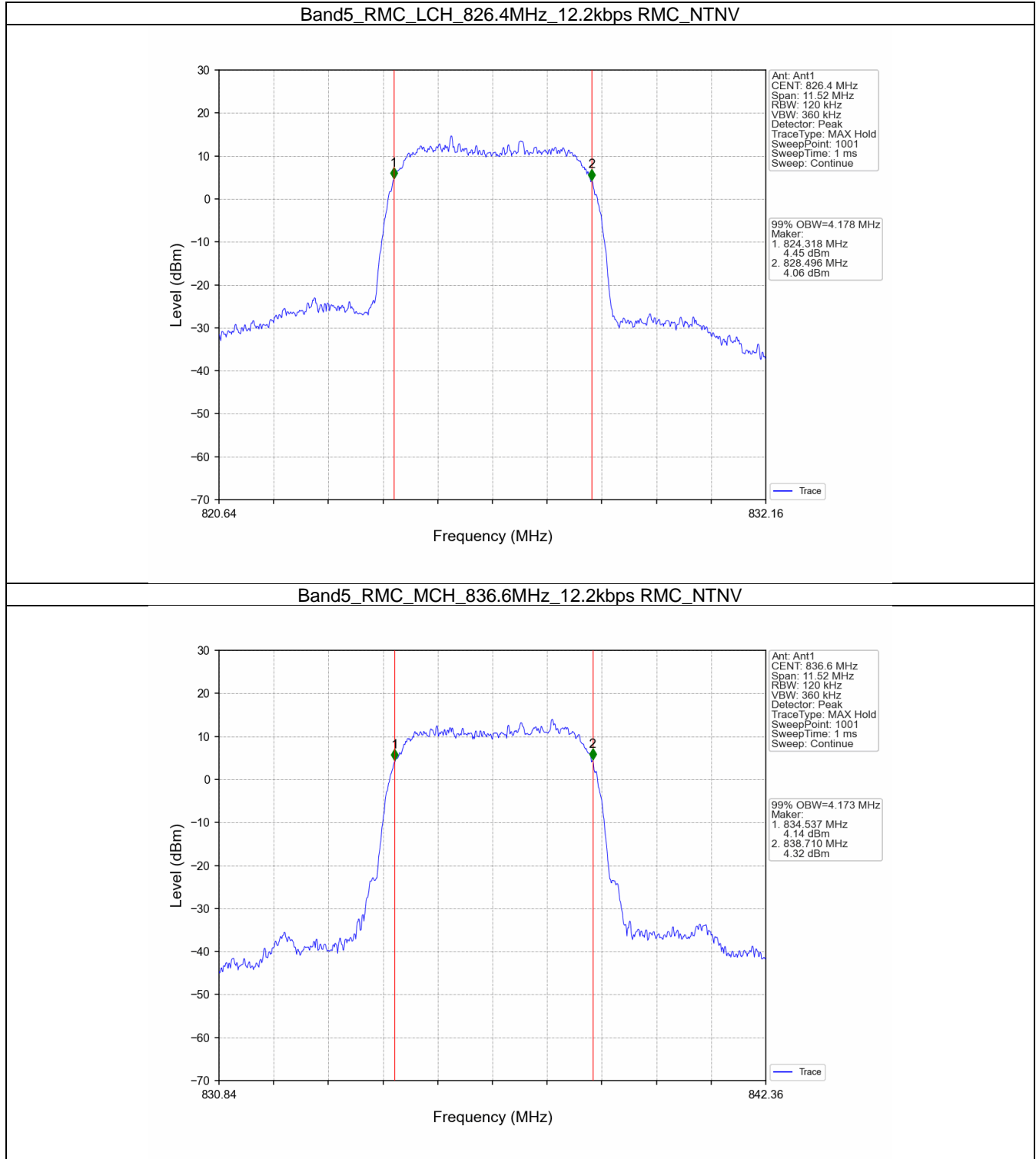
Band: 5						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	4.178	/	Pass
			836.6	4.173	/	Pass
			846.6	4.198	/	Pass
	HSDPA	Subtest 1	826.4	4.209	/	Pass
			836.6	4.192	/	Pass
			846.6	4.199	/	Pass
	HSUPA	Subtest 1	826.4	4.192	/	Pass
			836.6	4.178	/	Pass
			846.6	4.198	/	Pass

4.1.2 Band5_XDB

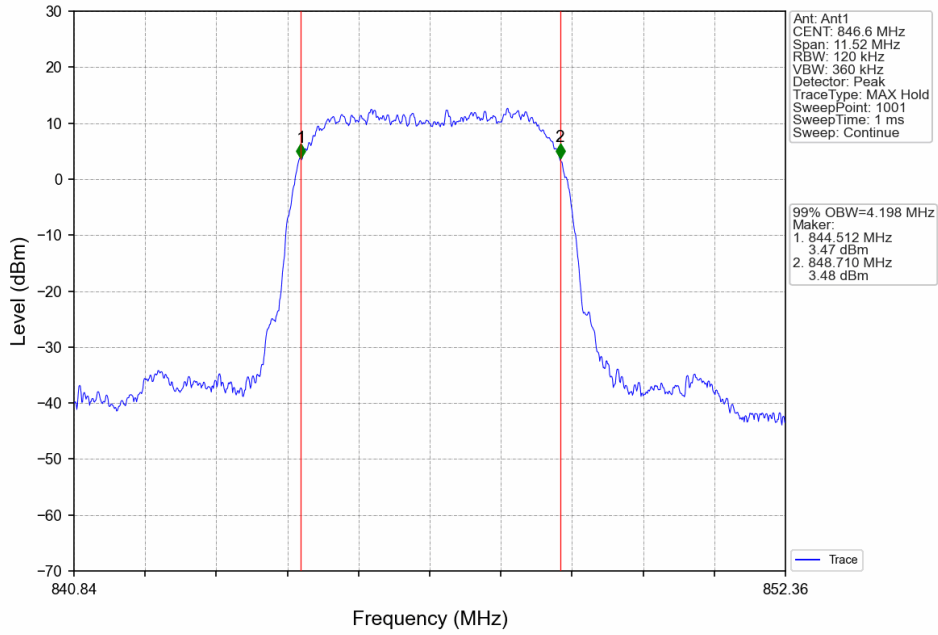
Band: 5						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	4.723	/	Pass
			836.6	4.705	/	Pass
			846.6	4.742	/	Pass
	HSDPA	Subtest 1	826.4	4.721	/	Pass
			836.6	4.725	/	Pass
			846.6	4.762	/	Pass
	HSUPA	Subtest 1	826.4	5.053	/	Pass
			836.6	4.730	/	Pass
			846.6	4.748	/	Pass

4.2 Test Graph

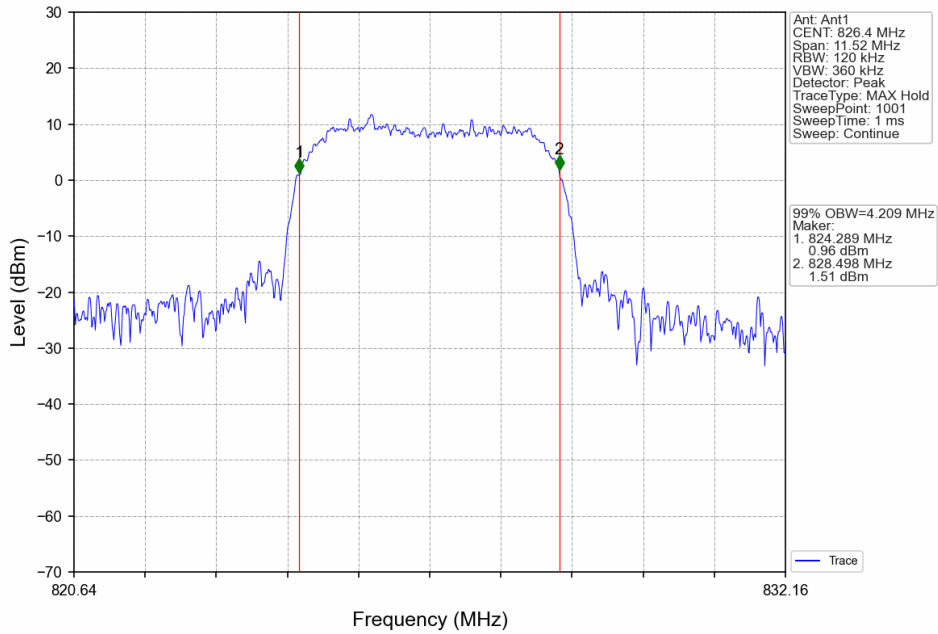
4.2.1 Band5_OBW



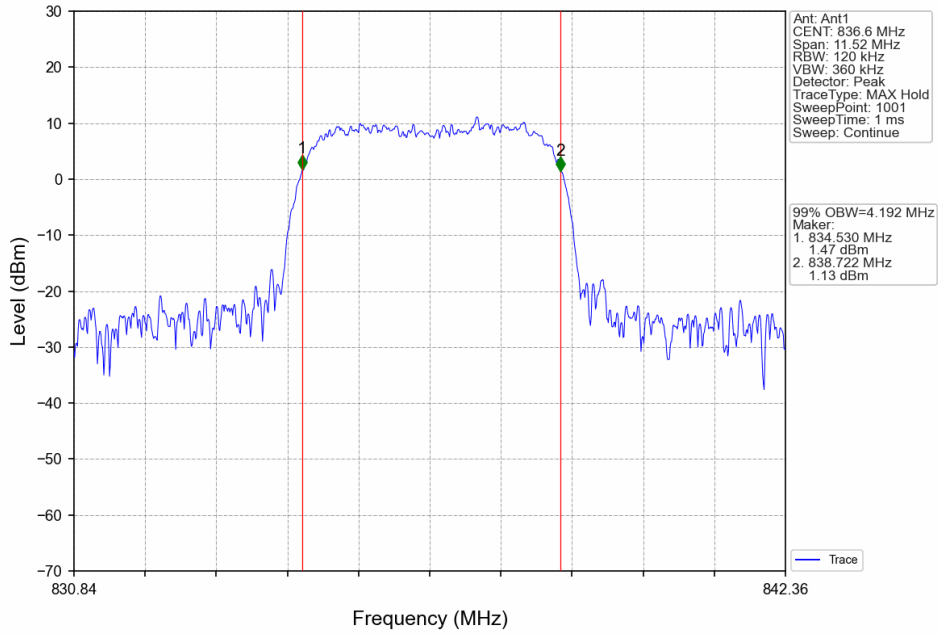
Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



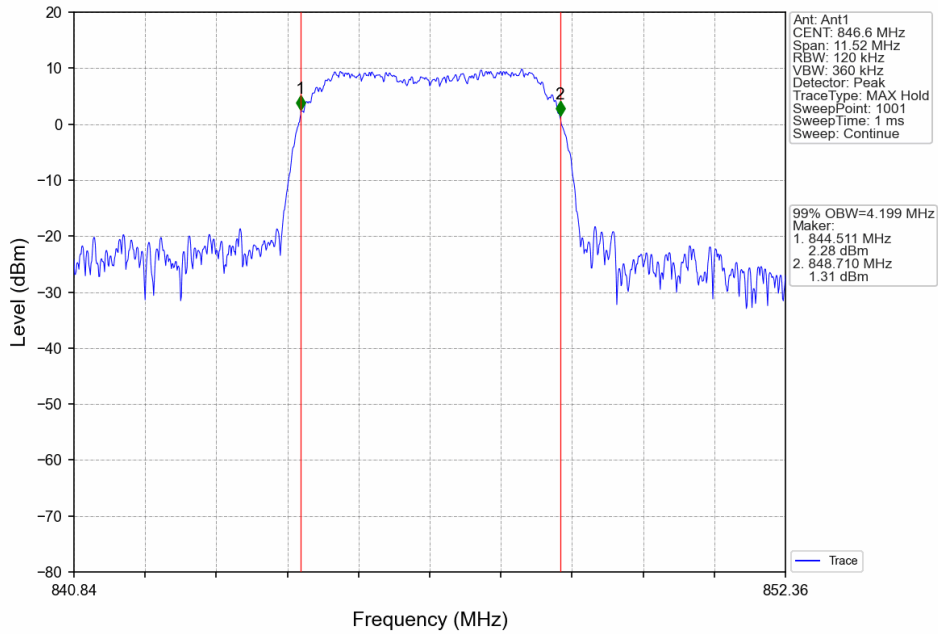
Band5_HSDPA_LCH_826.4MHz_Subtest 1_NTNV



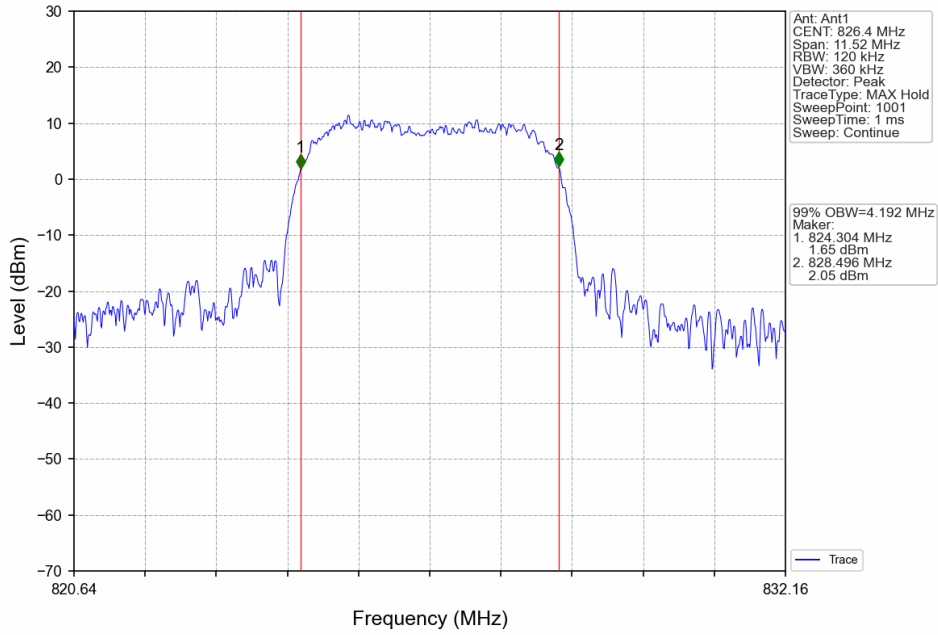
Band5_HSDPA_MCH_836.6MHz_Subtest 1_NTNV



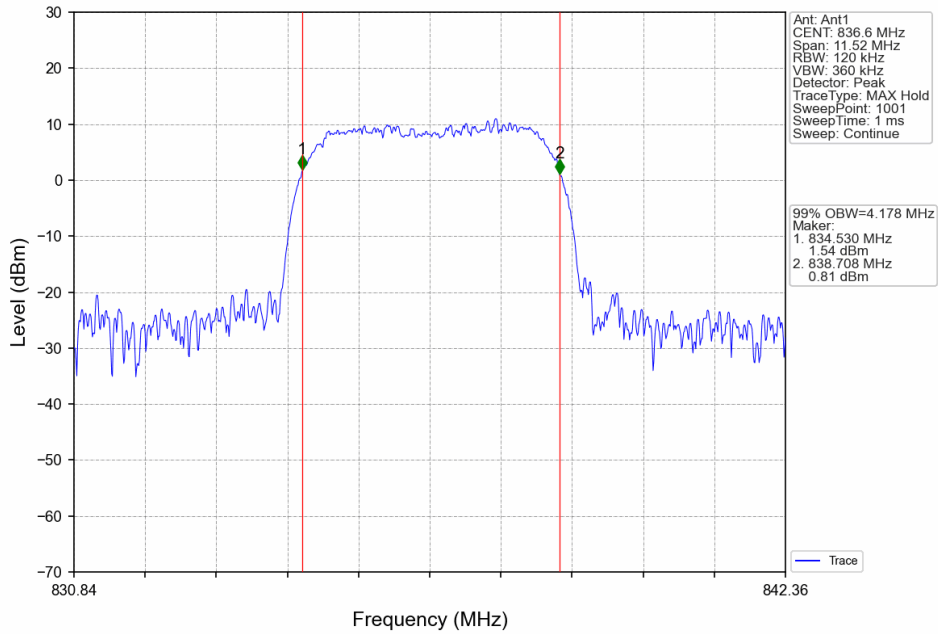
Band5_HSDPA_HCH_846.6MHz_Subtest 1_NTNV



Band5_HSUPA_LCH_826.4MHz_Subtest 1_NTNV

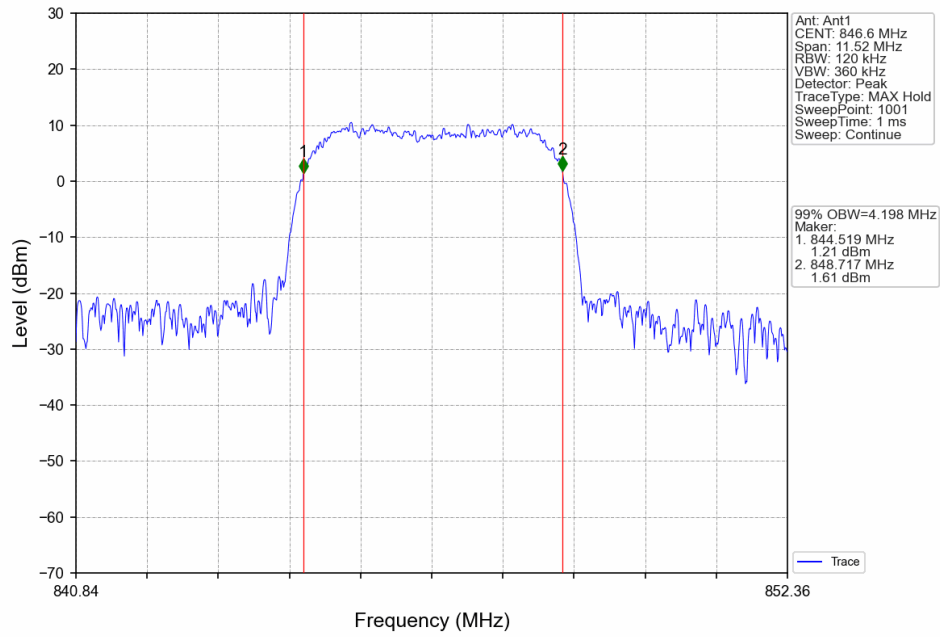


Band5_HSUPA_MCH_836.6MHz_Subtest 1_NTNV

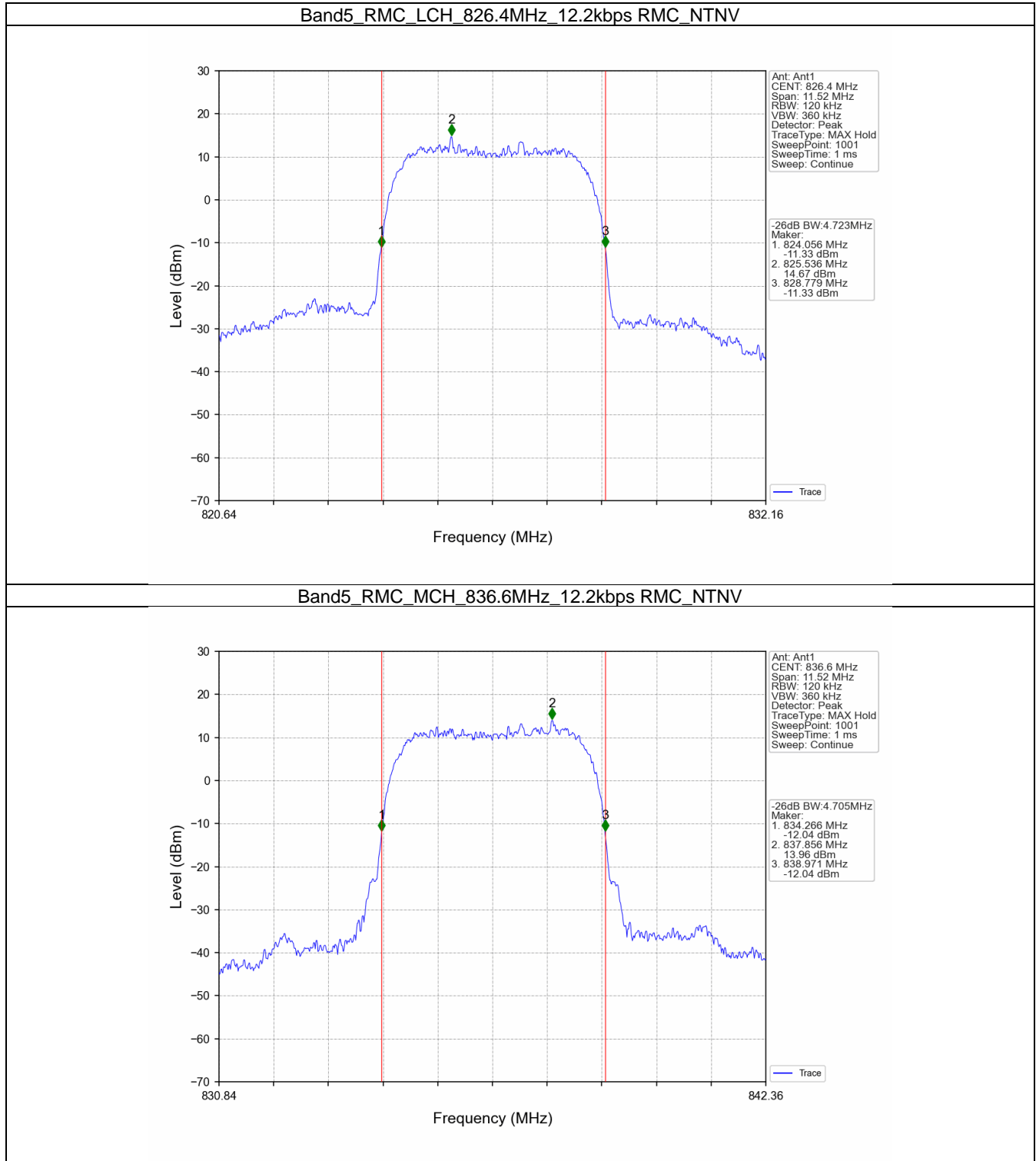




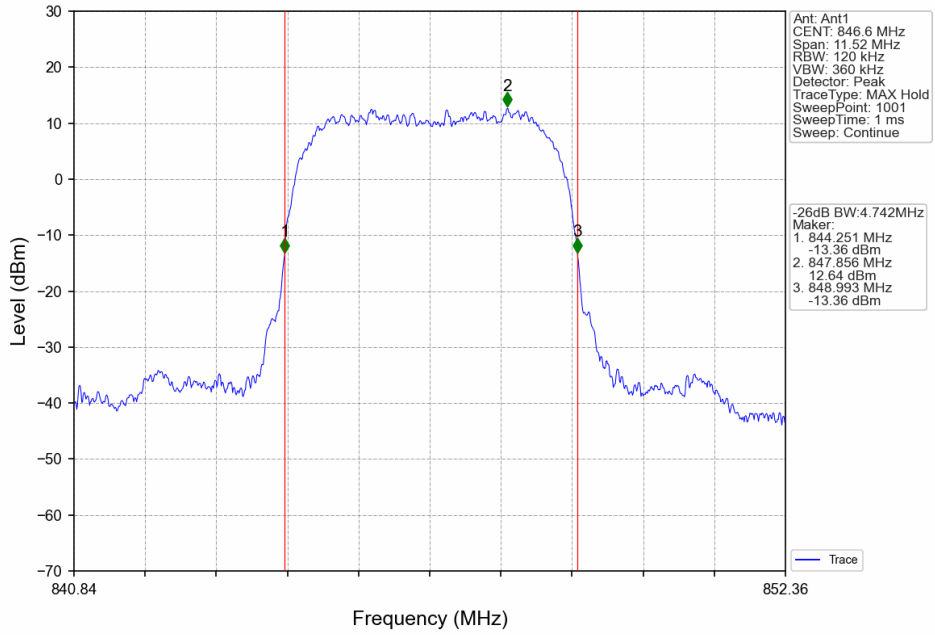
Band5_HSUPA_HCH_846.6MHz_Subtest 1_NTNV



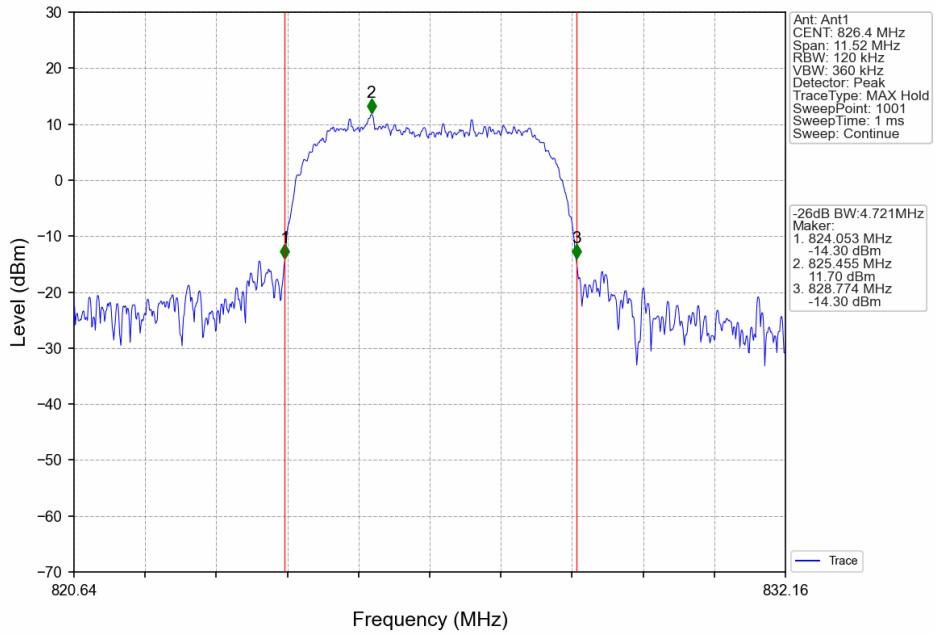
4.2.2 Band5_XDB



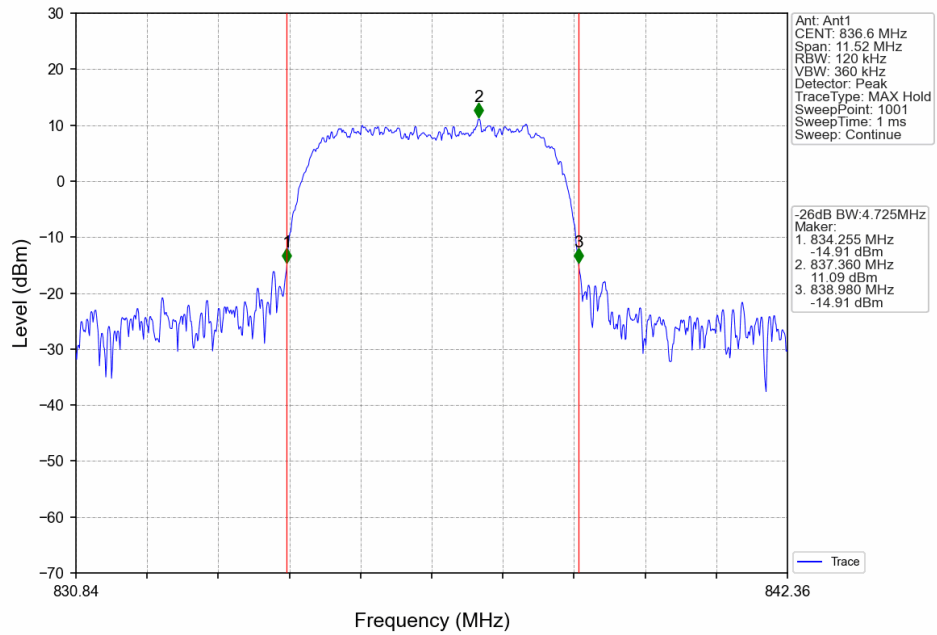
Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



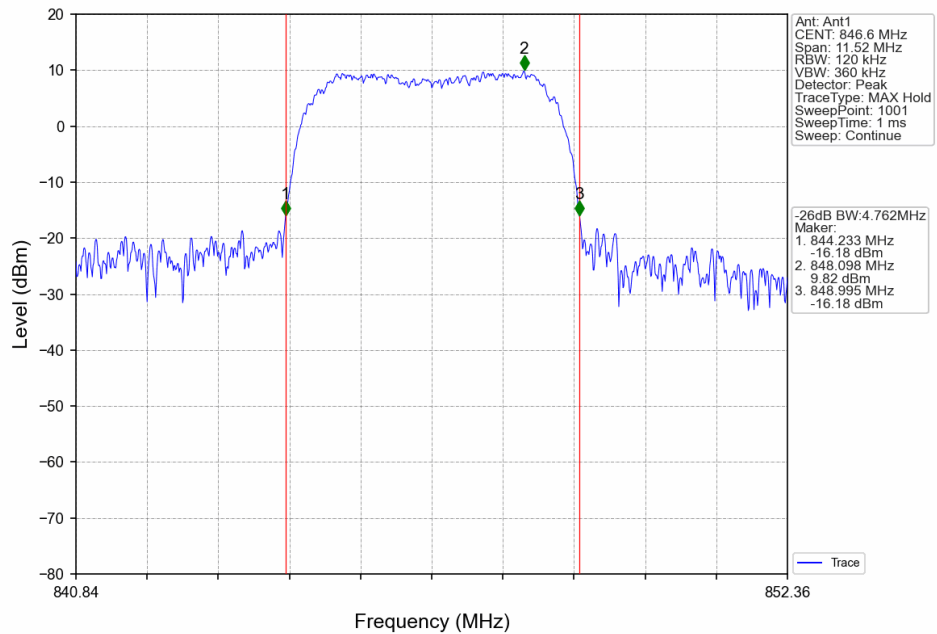
Band5_HSDPA_LCH_826.4MHz_Subtest 1_NTNV



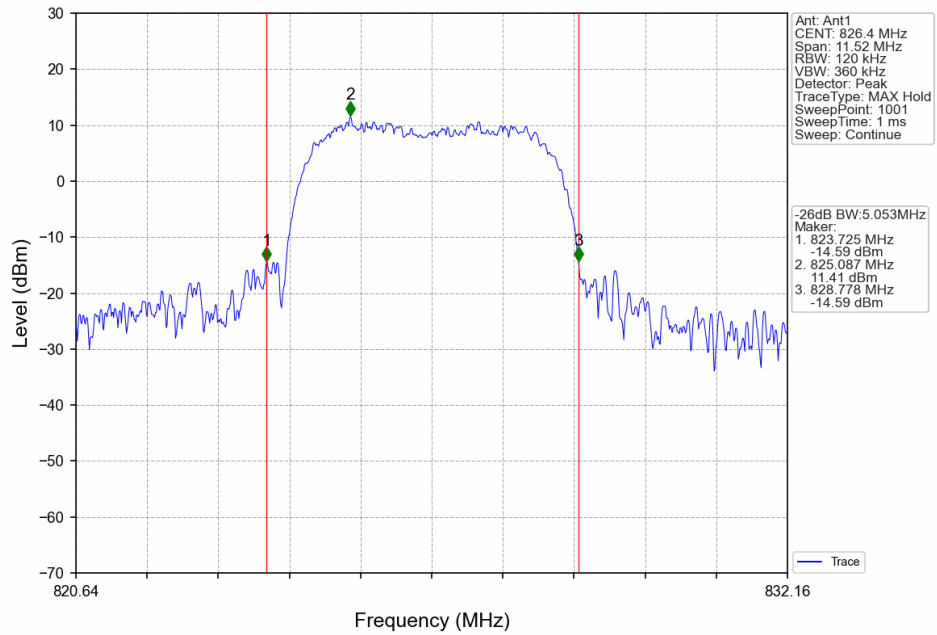
Band5_HSDPA_MCH_836.6MHz_Subtest 1_NTNV



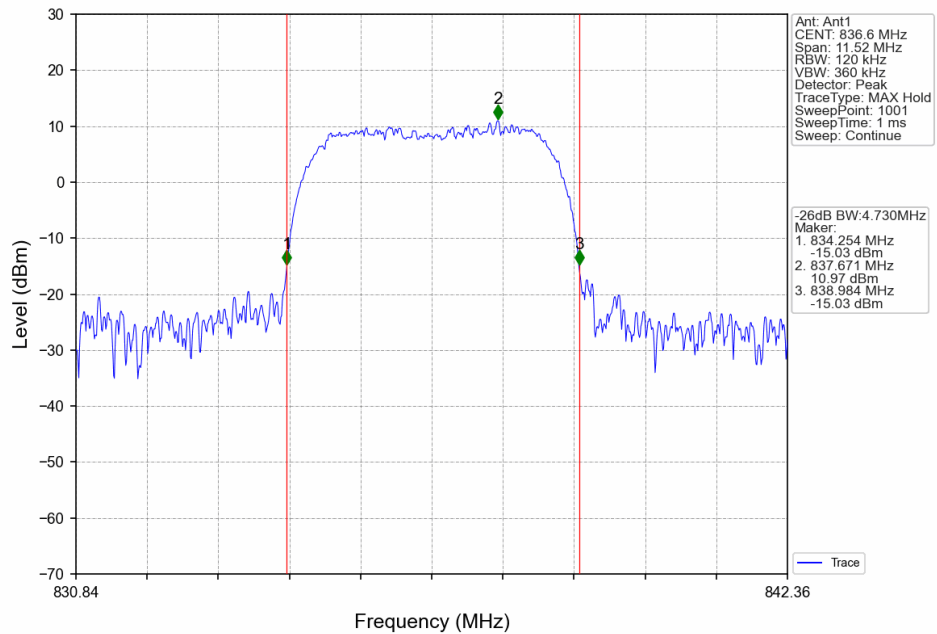
Band5_HSDPA_HCH_846.6MHz_Subtest 1_NTNV



Band5_HSUPA_LCH_826.4MHz_Subtest 1_NTNV

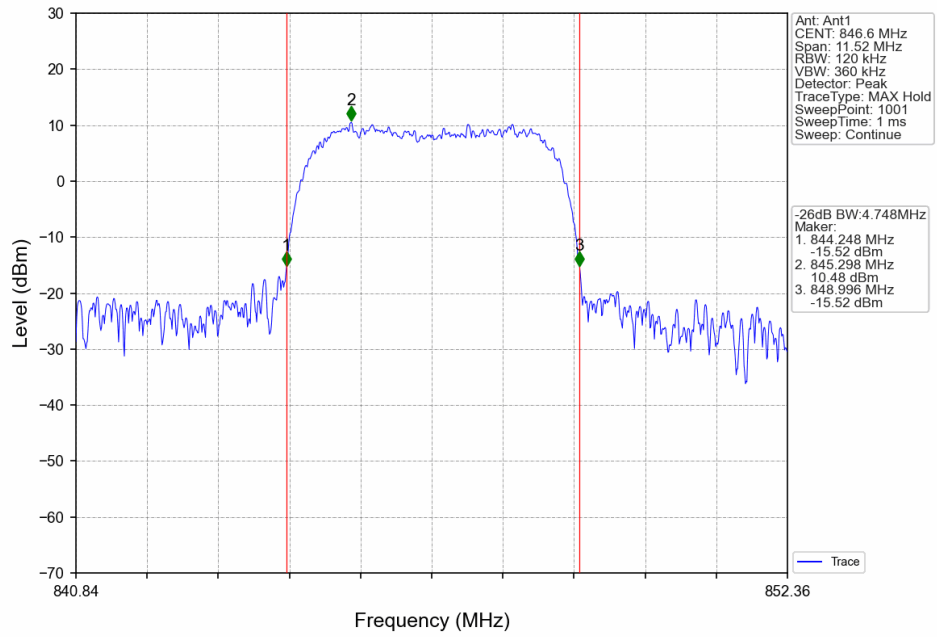


Band5_HSUPA_MCH_836.6MHz_Subtest 1_NTNV





Band5_HSUPA_HCH_846.6MHz_Subtest 1_NTNV



5. Peak-Average Ratio

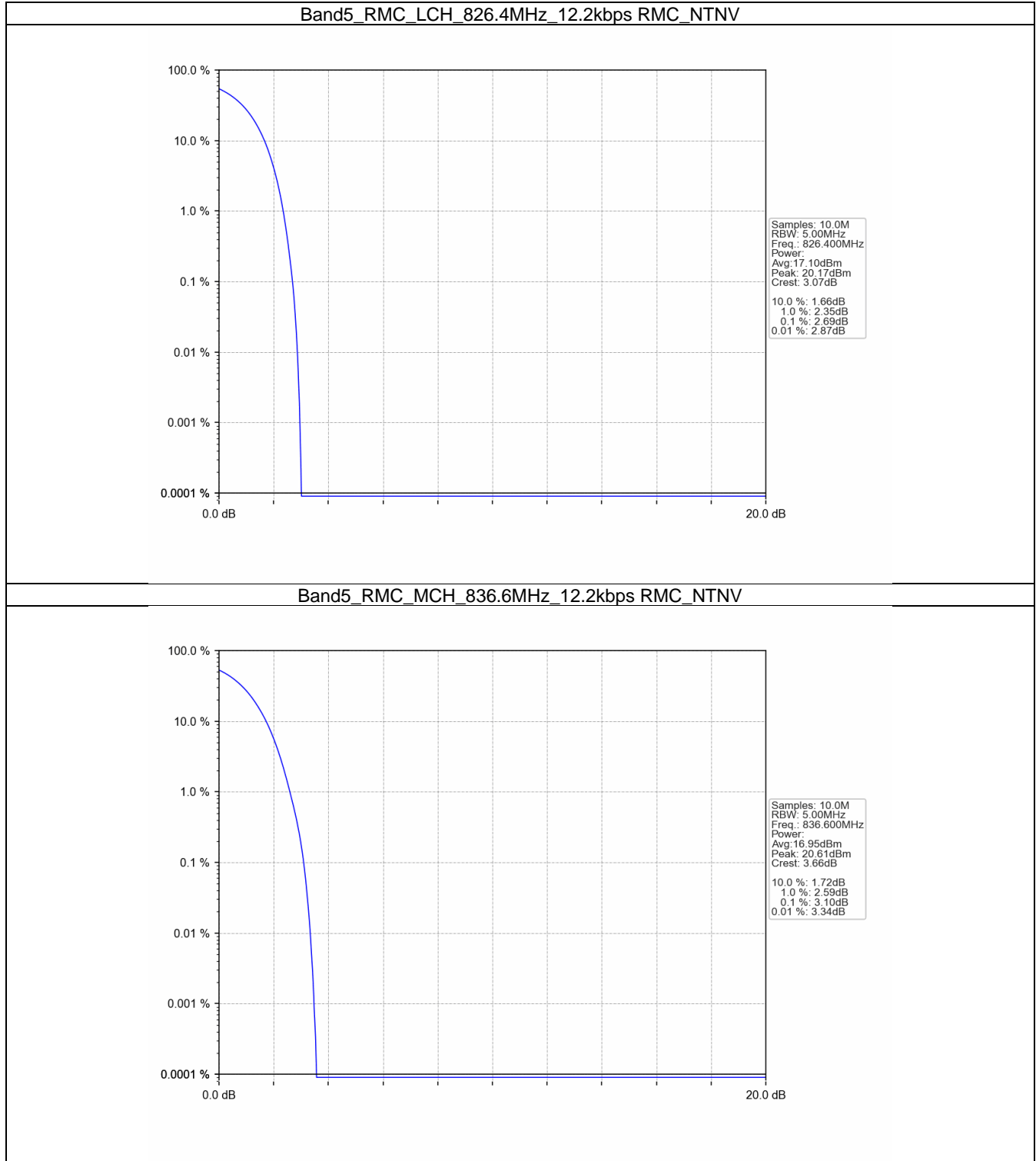
5.1 Test Result

5.1.1 Band5

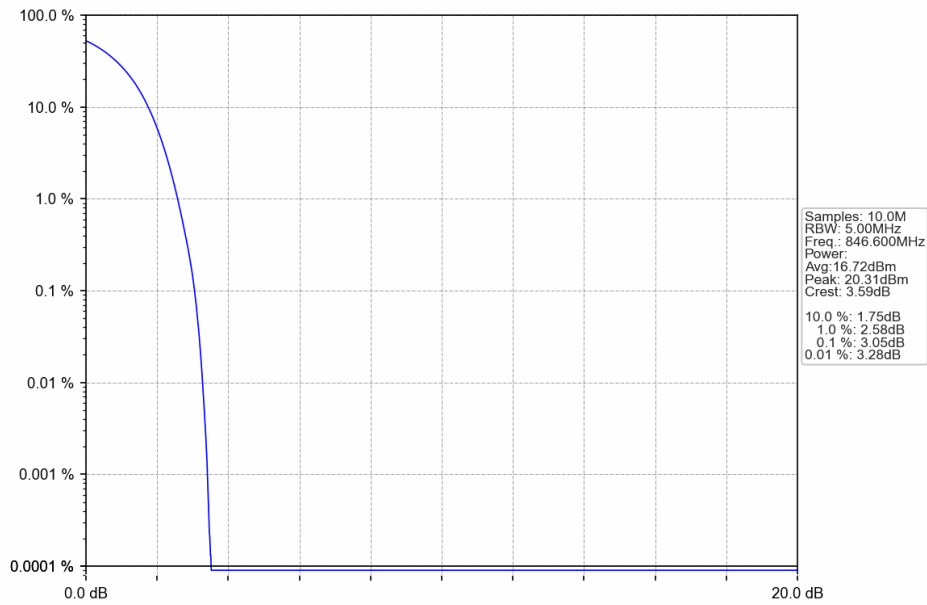
Band: 5						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	2.69	<=13	Pass
			836.6	3.10	<=13	Pass
			846.6	3.05	<=13	Pass
	HSDPA	Subtest 1	826.4	5.86	<=13	Pass
			836.6	5.90	<=13	Pass
			846.6	6.03	<=13	Pass
	HSUPA	Subtest 1	826.4	5.87	<=13	Pass
			836.6	5.98	<=13	Pass
			846.6	6.01	<=13	Pass

5.2 Test Graph

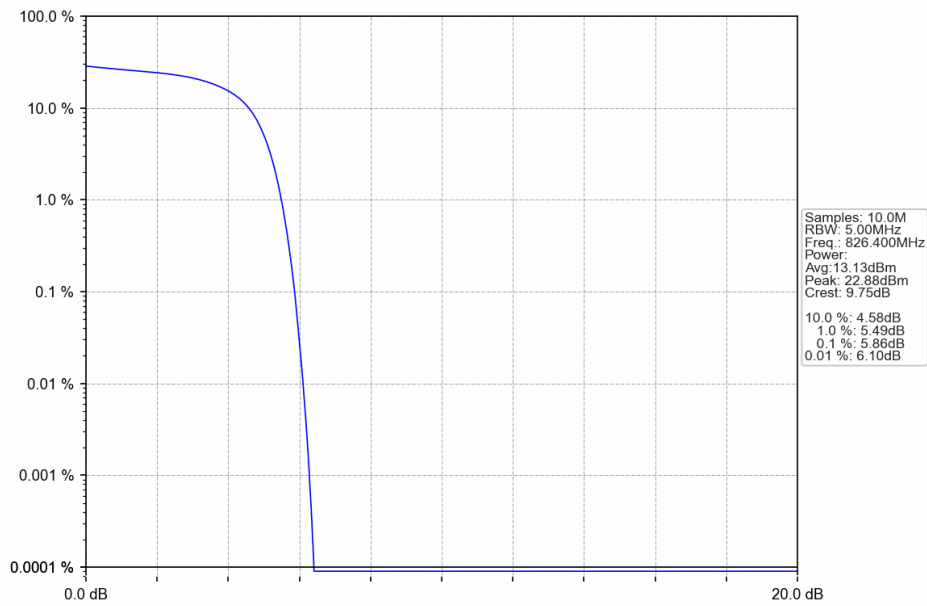
5.2.1 Band5



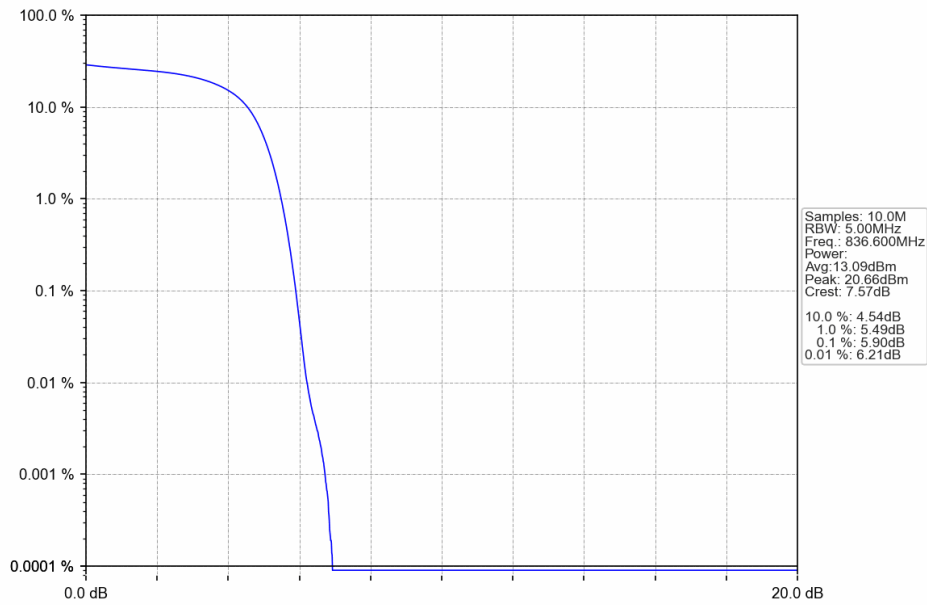
Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



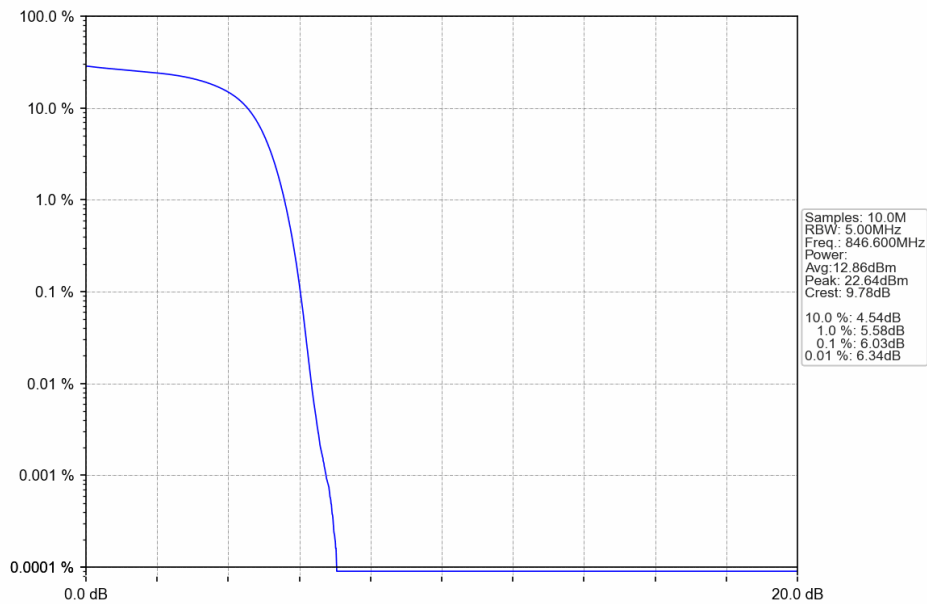
Band5_HSDPA_LCH_826.4MHz_Subtest 1_NTNV



Band5_HSDPA_MCH_836.6MHz_Subtest 1_NTNV

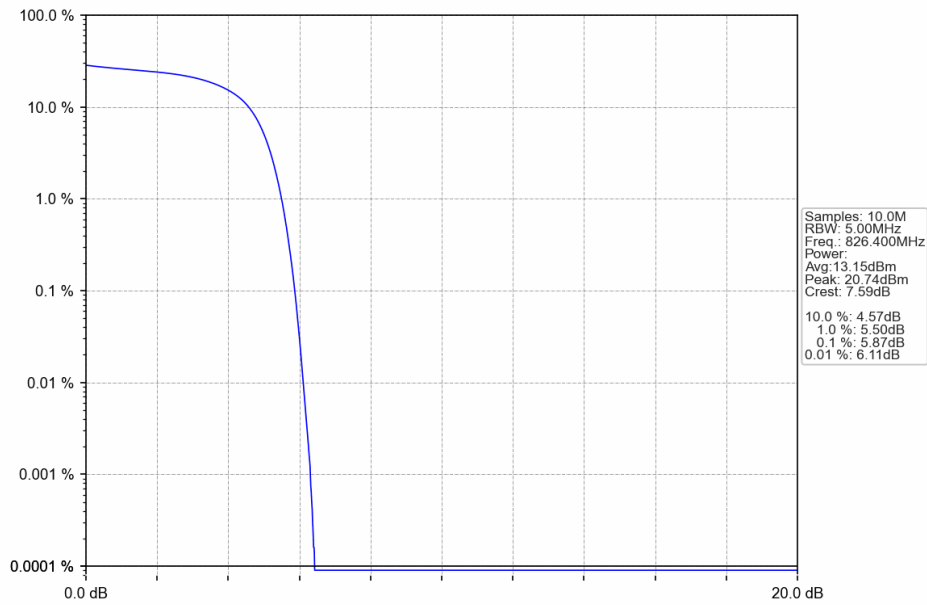


Band5_HSDPA_HCH_846.6MHz_Subtest 1_NTNV

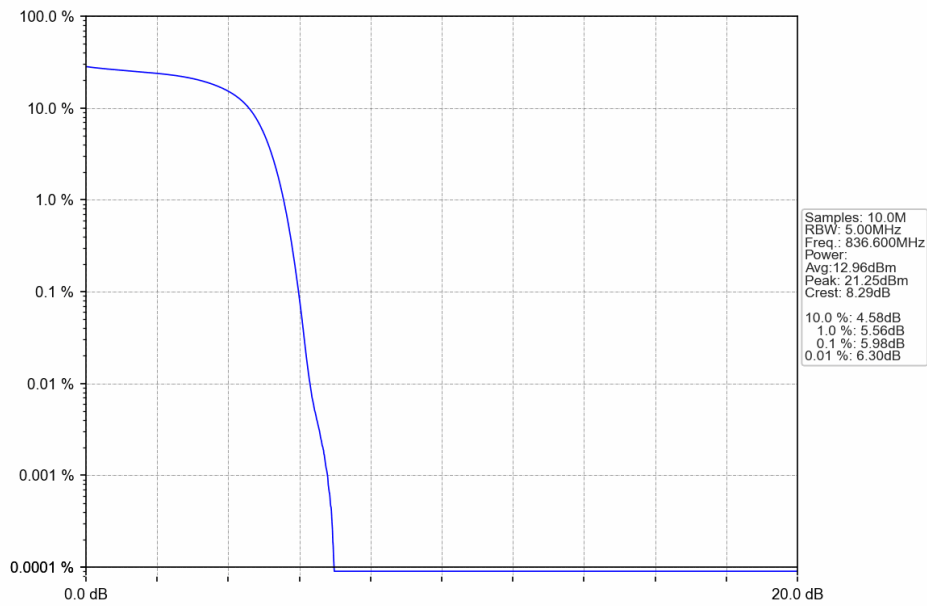




Band5_HSUPA_LCH_826.4MHz_Subtest 1_NTNV

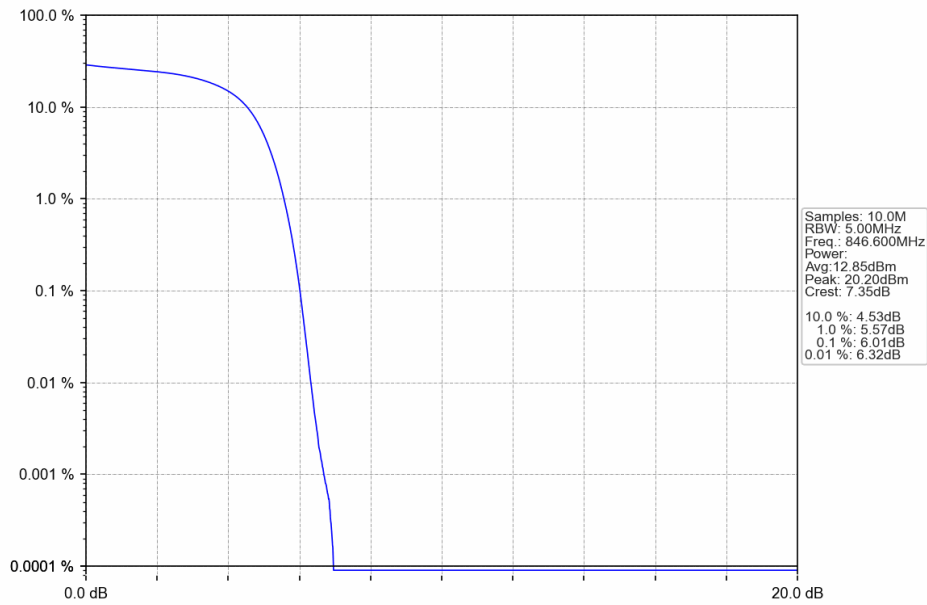


Band5_HSUPA_MCH_836.6MHz_Subtest 1_NTNV





Band5_HSUPA_HCH_846.6MHz_Subtest 1_NTNV



6. Spurious Emission

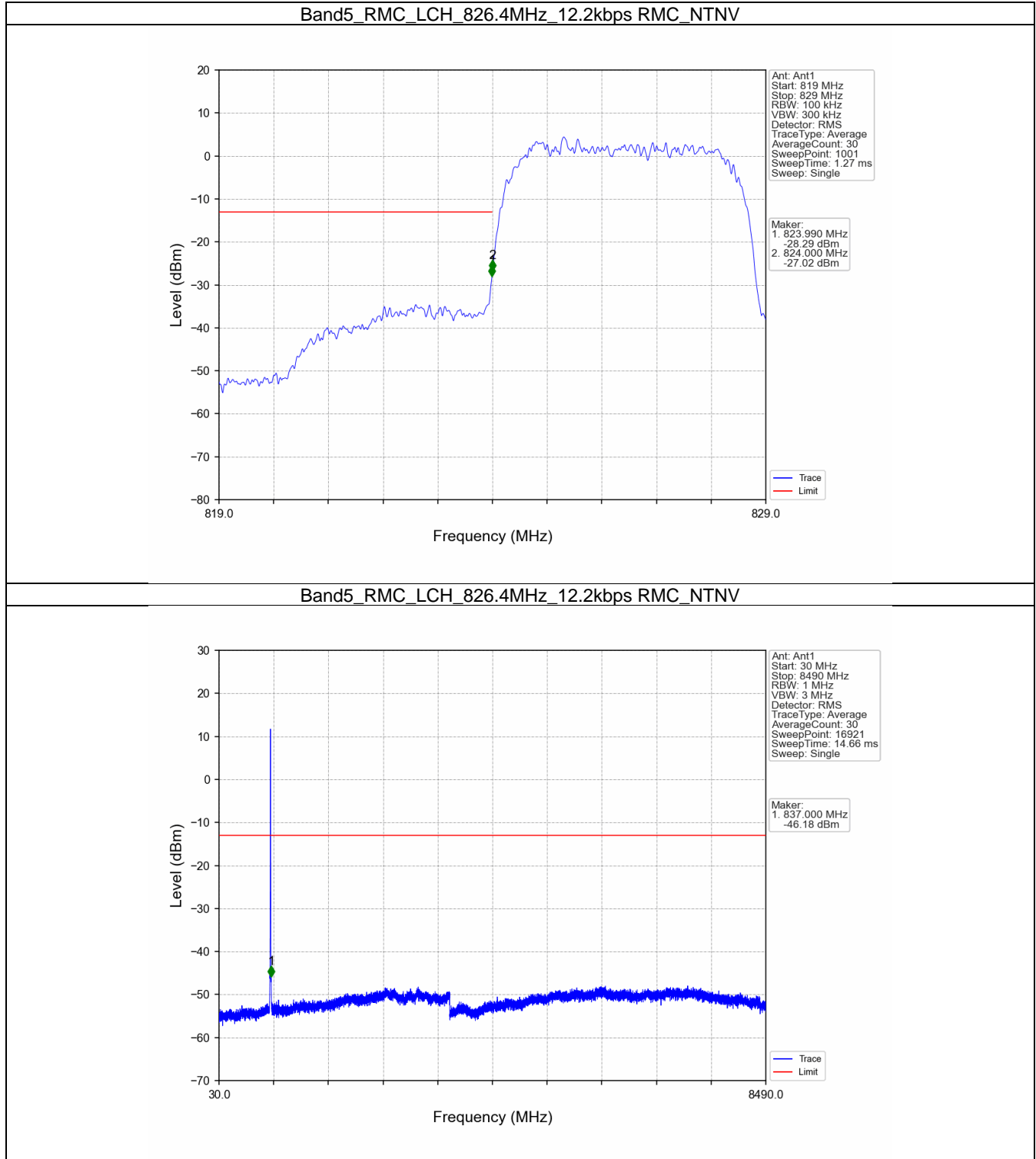
6.1 Test Result

6.1.1 Band5

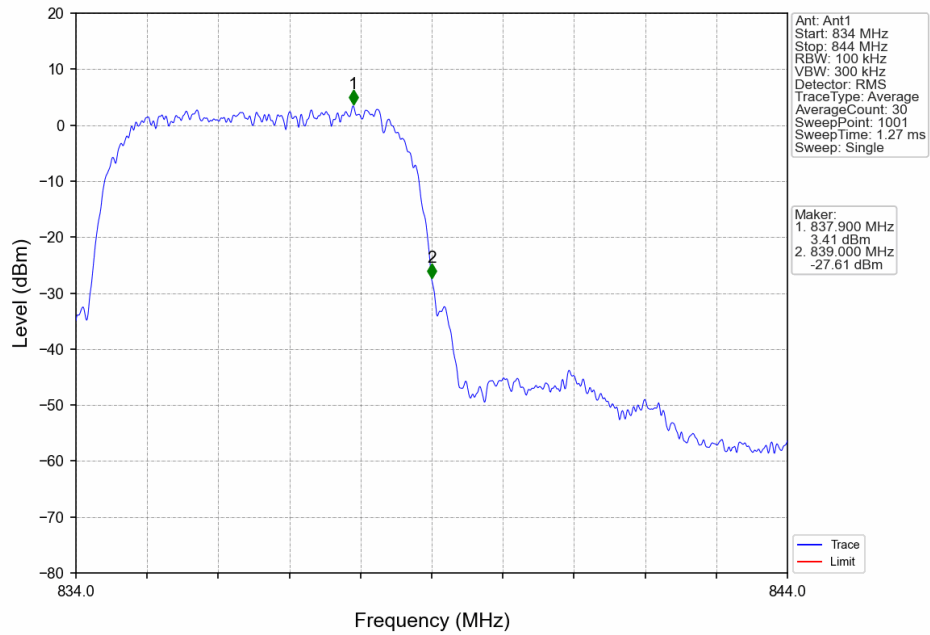
Band: 5						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	Refer To Test Graph		Pass
			836.6	Refer To Test Graph		Pass
			846.6	Refer To Test Graph		Pass
	HSDPA	Subtest 1	826.4	Refer To Test Graph		Pass
			836.6	Refer To Test Graph		Pass
			846.6	Refer To Test Graph		Pass
	HSUPA	Subtest 1	826.4	Refer To Test Graph		Pass
			836.6	Refer To Test Graph		Pass
			846.6	Refer To Test Graph		Pass

6.2 Test Graph

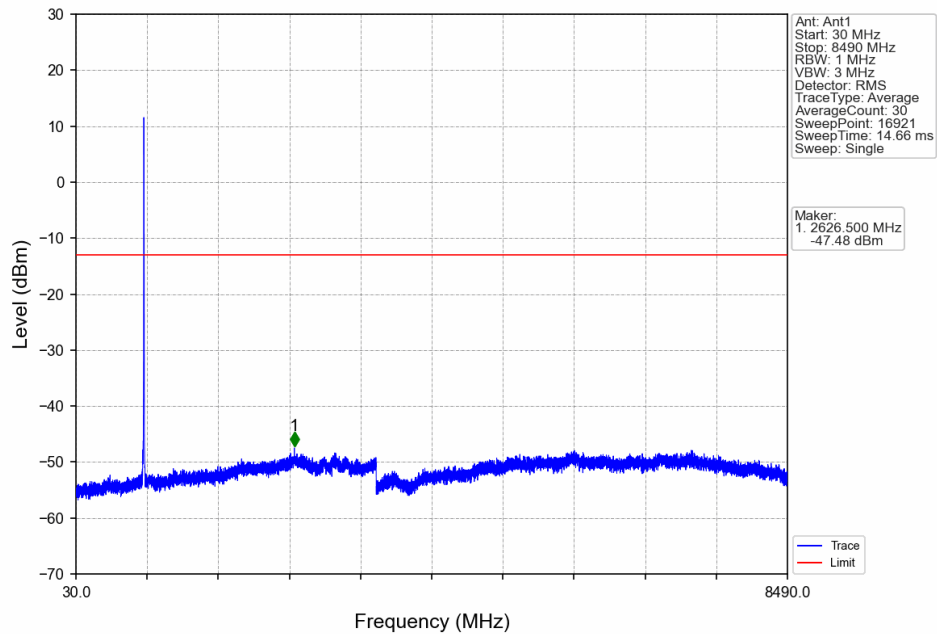
6.2.1 Band5



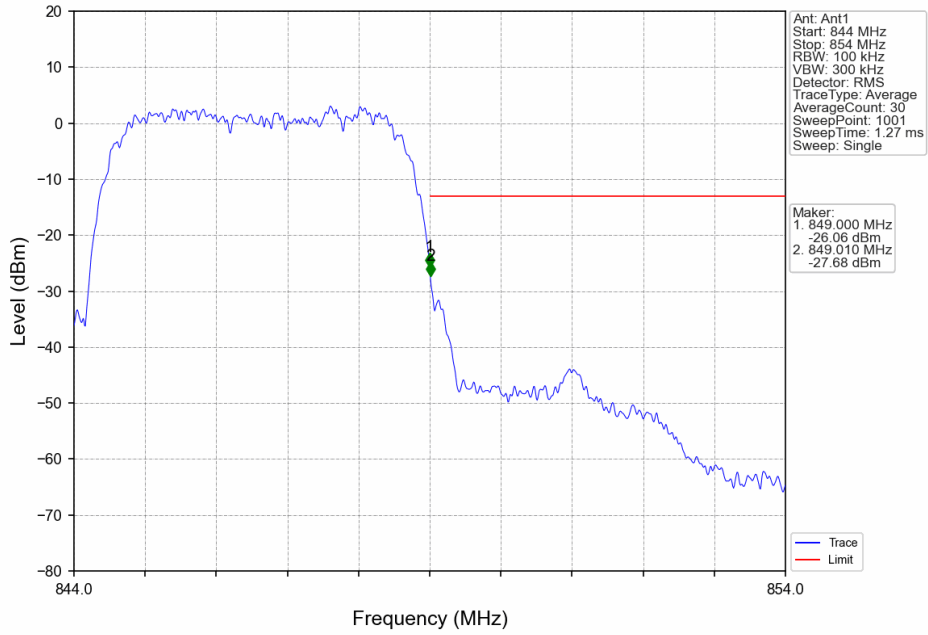
Band5_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



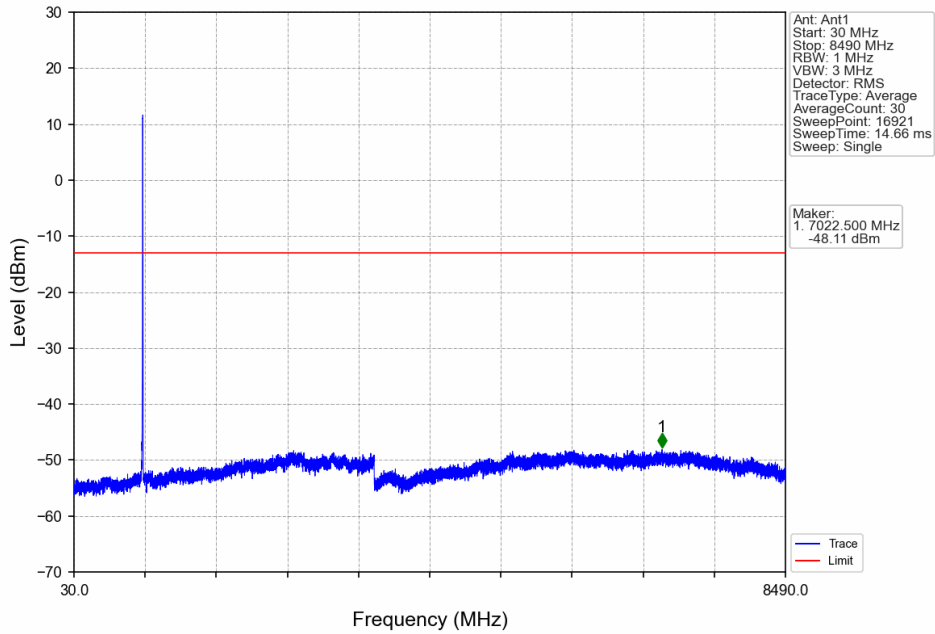
Band5_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



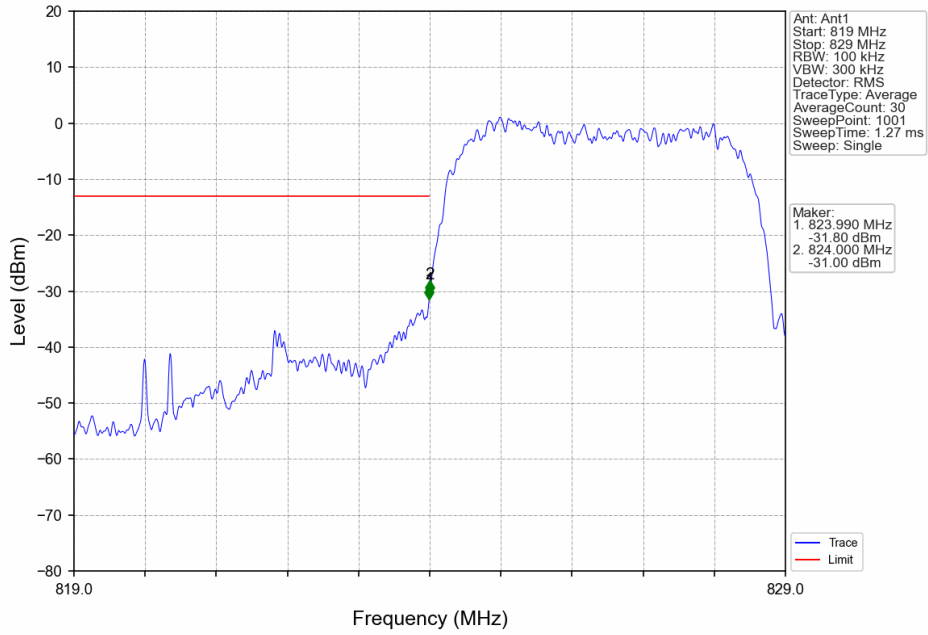
Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



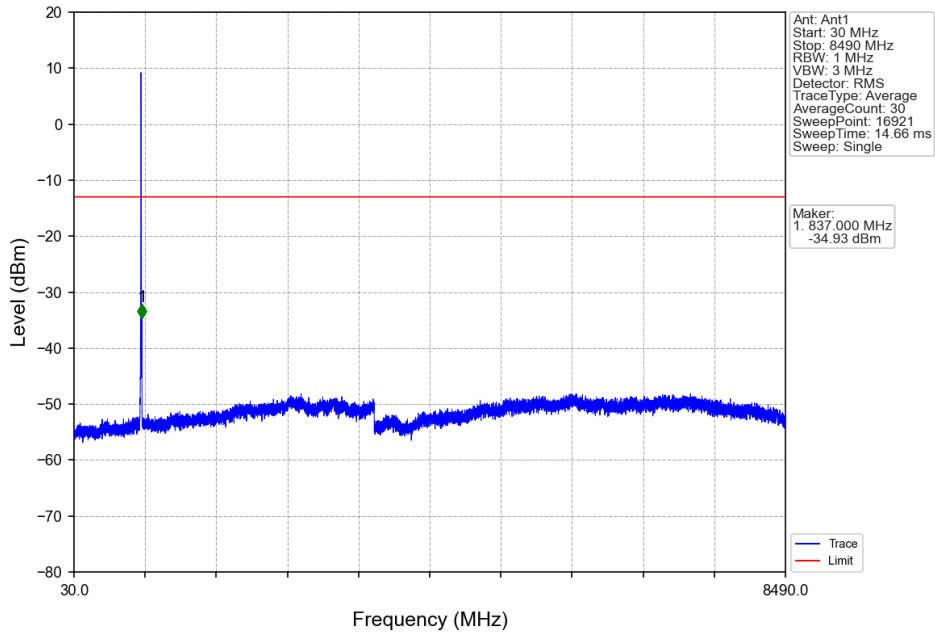
Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



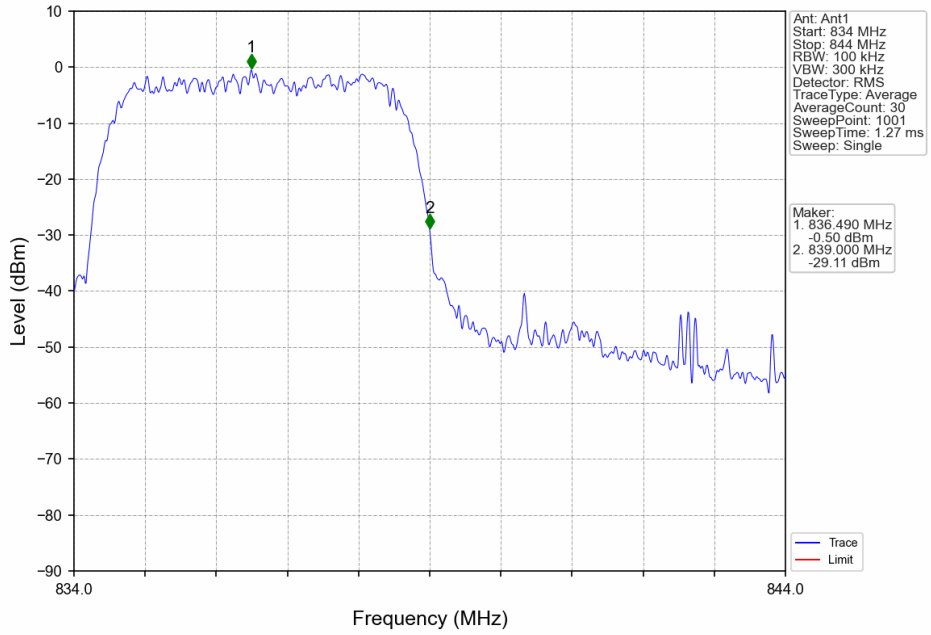
Band5_HSDPA_LCH_826.4MHz_Subtest 1_NTNV



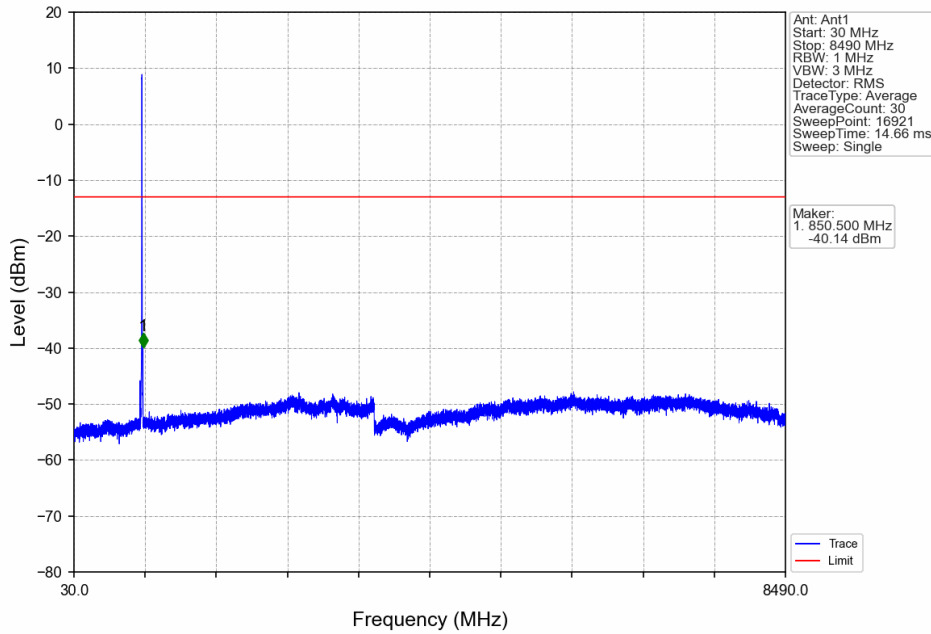
Band5_HSDPA_LCH_826.4MHz_Subtest 1_NTNV



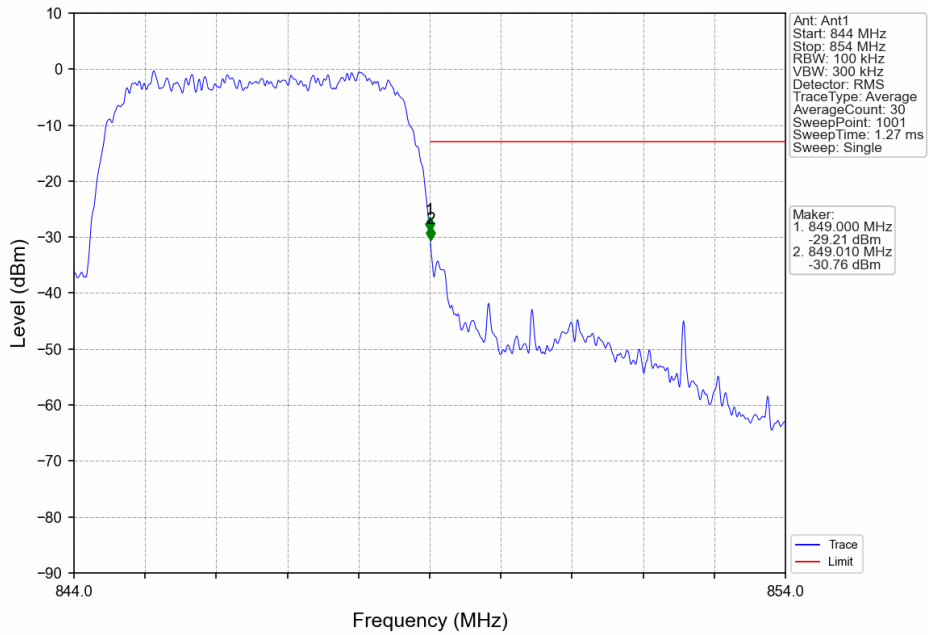
Band5_HSDPA_MCH_836.6MHz_Subtest 1_NTNV



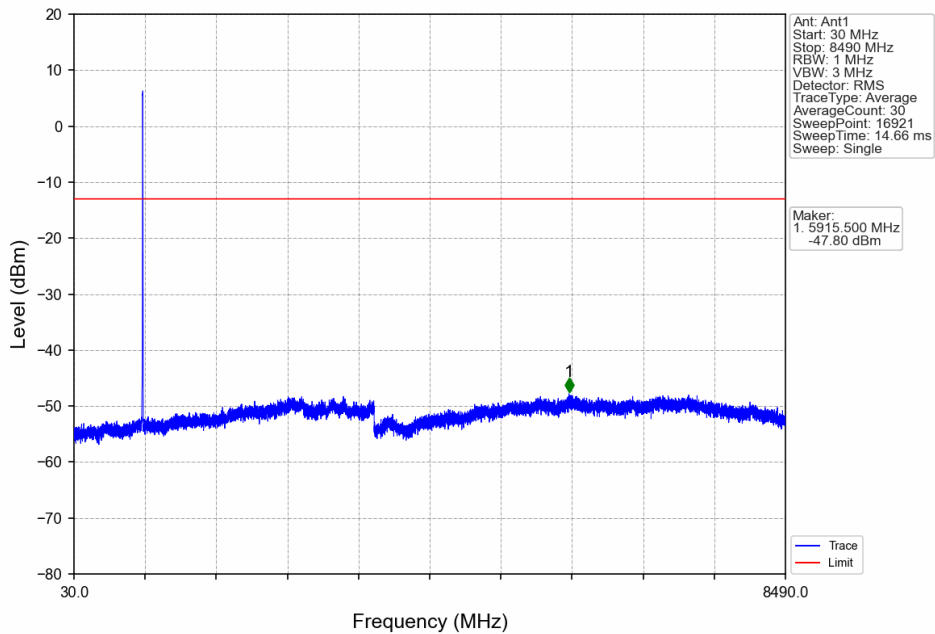
Band5_HSDPA_MCH_836.6MHz_Subtest 1_NTNV



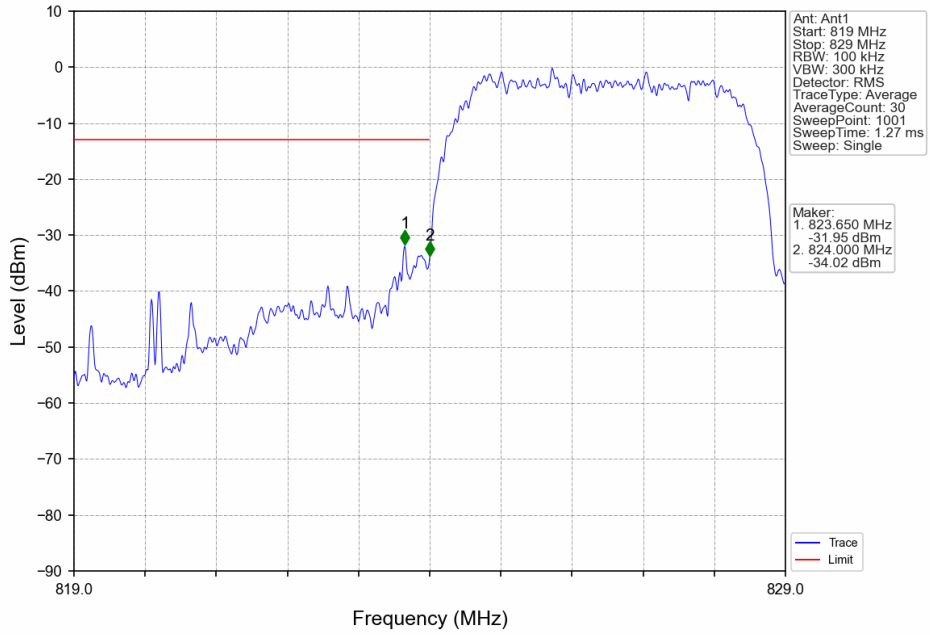
Band5_HSDPA_HCH_846.6MHz_Subtest 1_NTNV



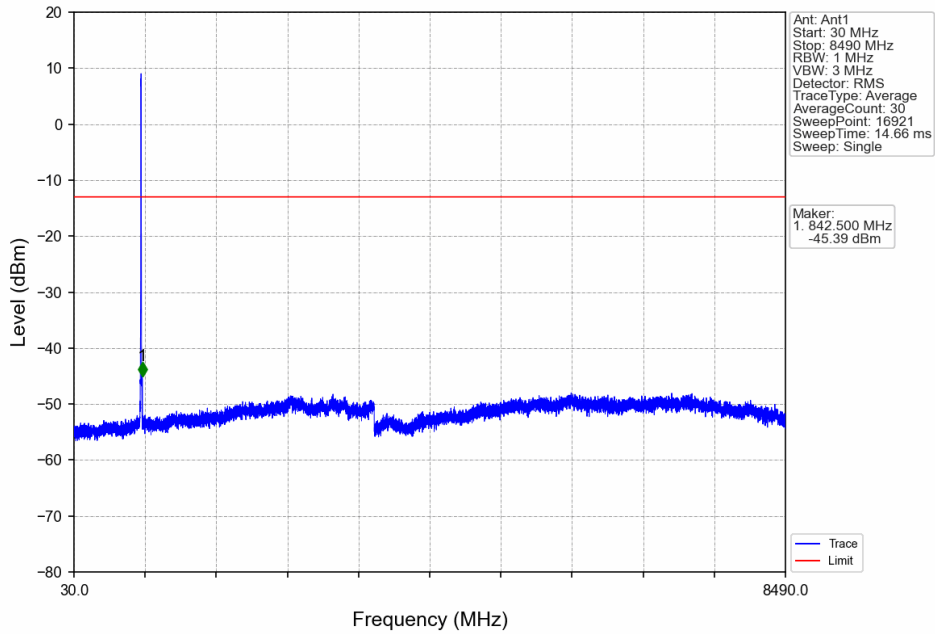
Band5_HSDPA_HCH_846.6MHz_Subtest 1_NTNV



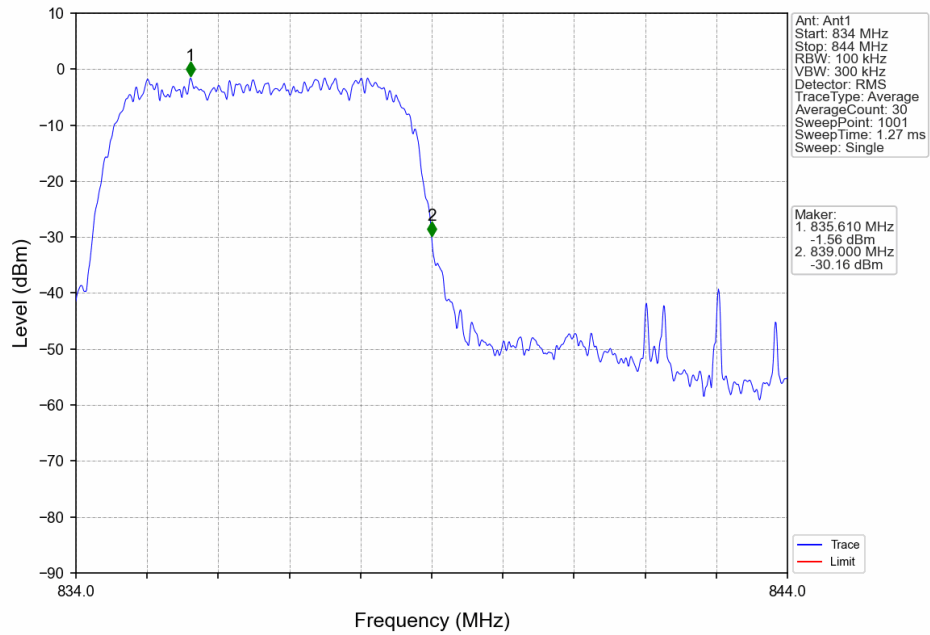
Band5_HSUPA_LCH_826.4MHz_Subtest 1_NTNV



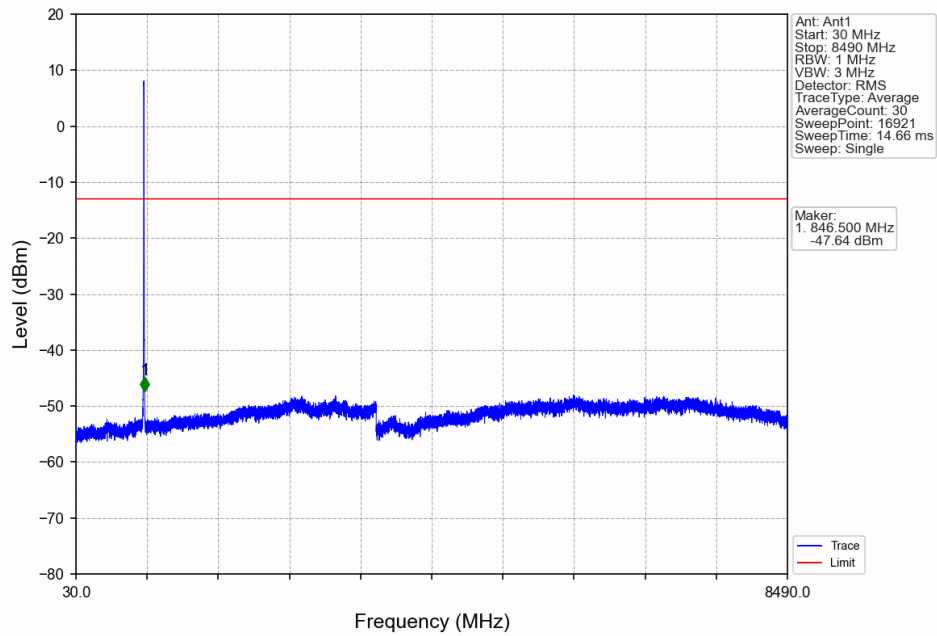
Band5_HSUPA_LCH_826.4MHz_Subtest 1_NTNV



Band5_HSUPA_MCH_836.6MHz_Subtest 1_NTNV

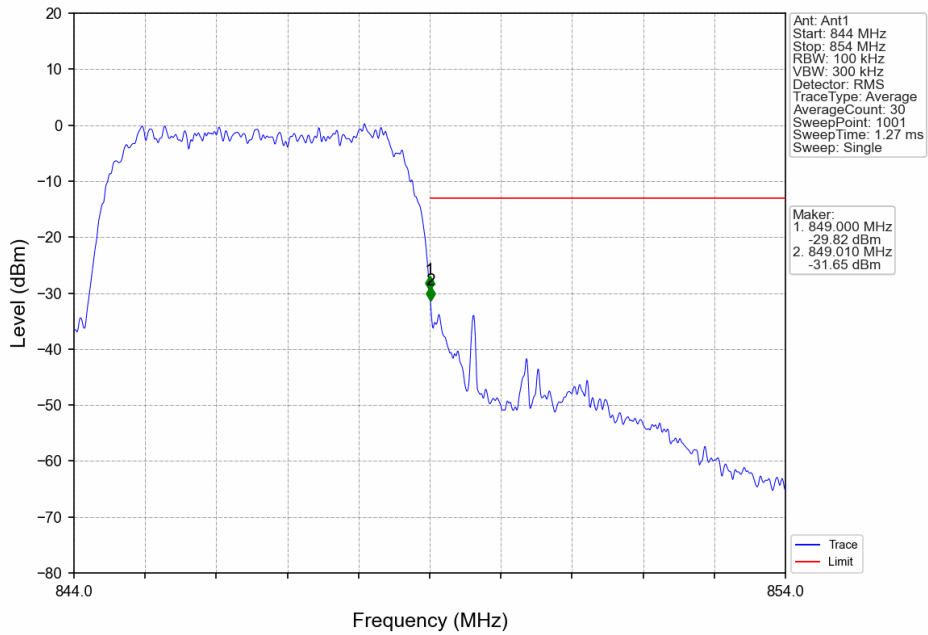


Band5_HSUPA_MCH_836.6MHz_Subtest 1_NTNV

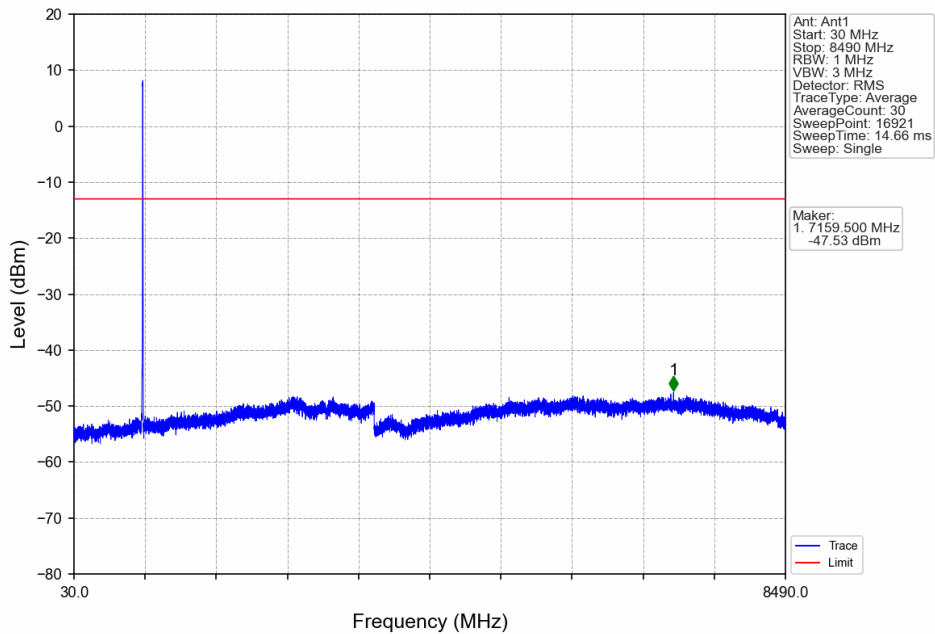




Band5_HSUPA_HCH_846.6MHz_Subtest 1_NTNV



Band5_HSUPA_HCH_846.6MHz_Subtest 1_NTNV





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)
5	3.84	826.4	846.6	0.2259	0.0108	ppm	4M21F9W	22H	23.54

7.1.2 Form731_ERP

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
5	3.84	826.4	846.6	0.1169	0.0108	ppm	4M21F9W	22H	20.68