

1. Effective (Isotropic) Radiated Power Output Data

1.1 Band5_ERP

1.1.1 Test Result

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	21.82	-0.71	18.96	<=38.45	Pass	
			836.6	21.82	-0.71	18.96	<=38.45	Pass	
			846.6	21.83	-0.71	18.97	<=38.45	Pass	
	HSDPA	Subtest 1	826.4	21.22	-0.71	18.36	<=38.45	Pass	
		Subtest 2	826.4	21.22	-0.71	18.36	<=38.45	Pass	
		Subtest 3	826.4	21.21	-0.71	18.35	<=38.45	Pass	
		Subtest 4	826.4	21.23	-0.71	18.37	<=38.45	Pass	
		Subtest 1	836.6	21.84	-0.71	18.98	<=38.45	Pass	
		Subtest 2	836.6	21.85	-0.71	18.99	<=38.45	Pass	
		Subtest 3	836.6	21.80	-0.71	18.94	<=38.45	Pass	
		Subtest 4	836.6	21.84	-0.71	18.98	<=38.45	Pass	
		Subtest 1	846.6	21.19	-0.71	18.33	<=38.45	Pass	
		Subtest 2	846.6	21.16	-0.71	18.30	<=38.45	Pass	
		Subtest 3	846.6	21.16	-0.71	18.30	<=38.45	Pass	
		Subtest 4	846.6	21.12	-0.71	18.26	<=38.45	Pass	
		HSUPA	Subtest 1	826.4	21.83	-0.71	18.97	<=38.45	Pass
			Subtest 2	826.4	21.81	-0.71	18.95	<=38.45	Pass
			Subtest 3	826.4	21.82	-0.71	18.96	<=38.45	Pass
			Subtest 4	826.4	21.82	-0.71	18.96	<=38.45	Pass
			Subtest 5	826.4	21.80	-0.71	18.94	<=38.45	Pass
			Subtest 1	836.6	21.81	-0.71	18.95	<=38.45	Pass
			Subtest 2	836.6	21.79	-0.71	18.93	<=38.45	Pass
			Subtest 3	836.6	21.78	-0.71	18.92	<=38.45	Pass
	Subtest 4		836.6	21.78	-0.71	18.92	<=38.45	Pass	
	Subtest 5		836.6	21.80	-0.71	18.94	<=38.45	Pass	
	Subtest 1		846.6	21.80	-0.71	18.94	<=38.45	Pass	
	Subtest 2		846.6	21.83	-0.71	18.97	<=38.45	Pass	
	Subtest 3		846.6	21.82	-0.71	18.96	<=38.45	Pass	
	Subtest 4		846.6	21.81	-0.71	18.95	<=38.45	Pass	
	Subtest 5		846.6	21.82	-0.71	18.96	<=38.45	Pass	
Note1: ERP=Conducted Power+Antenna Gain-2.15									

2. Frequency Stability

2.1 Band5

2.1.1 Test Result

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	-0.644	-0.0008	-2.5 to 2.5	Pass
			3.85	0.222	0.0003	-2.5 to 2.5	Pass
			4.43	0.594	0.0007	-2.5 to 2.5	Pass
		-30	3.85	0.429	0.0005	-2.5 to 2.5	Pass
		-20	3.85	-0.844	-0.0010	-2.5 to 2.5	Pass
		-10	3.85	1.724	0.0021	-2.5 to 2.5	Pass
		0	3.85	2.925	0.0035	-2.5 to 2.5	Pass
		10	3.85	0.379	0.0005	-2.5 to 2.5	Pass
		30	3.85	0.758	0.0009	-2.5 to 2.5	Pass
		40	3.85	0.722	0.0009	-2.5 to 2.5	Pass
		50	3.85	0.737	0.0009	-2.5 to 2.5	Pass
	836.6	20	3.27	-0.958	-0.0011	-2.5 to 2.5	Pass
			3.85	-0.529	-0.0006	-2.5 to 2.5	Pass
			4.43	1.609	0.0019	-2.5 to 2.5	Pass
		-30	3.85	2.875	0.0034	-2.5 to 2.5	Pass
		-20	3.85	2.925	0.0035	-2.5 to 2.5	Pass
		-10	3.85	1.009	0.0012	-2.5 to 2.5	Pass
		0	3.85	1.595	0.0019	-2.5 to 2.5	Pass
		10	3.85	0.522	0.0006	-2.5 to 2.5	Pass
		30	3.85	-0.129	-0.0002	-2.5 to 2.5	Pass
		40	3.85	-1.545	-0.0018	-2.5 to 2.5	Pass
		50	3.85	-0.343	-0.0004	-2.5 to 2.5	Pass
	846.6	20	3.27	-1.101	-0.0013	-2.5 to 2.5	Pass
			3.85	-0.958	-0.0011	-2.5 to 2.5	Pass
			4.43	-0.865	-0.0010	-2.5 to 2.5	Pass
		-30	3.85	-0.536	-0.0006	-2.5 to 2.5	Pass
		-20	3.85	-1.681	-0.0020	-2.5 to 2.5	Pass
		-10	3.85	-0.966	-0.0011	-2.5 to 2.5	Pass
		0	3.85	-1.009	-0.0012	-2.5 to 2.5	Pass
		10	3.85	-2.460	-0.0029	-2.5 to 2.5	Pass
		30	3.85	-1.523	-0.0018	-2.5 to 2.5	Pass
		40	3.85	0.458	0.0005	-2.5 to 2.5	Pass
HSDPA	826.4	20	3.27	2.997	0.0036	-2.5 to 2.5	Pass
			3.85	6.351	0.0077	-2.5 to 2.5	Pass
			4.43	5.193	0.0063	-2.5 to 2.5	Pass
		-30	3.85	4.971	0.0060	-2.5 to 2.5	Pass
		-20	3.85	4.892	0.0059	-2.5 to 2.5	Pass
		-10	3.85	5.322	0.0064	-2.5 to 2.5	Pass
		0	3.85	6.444	0.0078	-2.5 to 2.5	Pass
		10	3.85	3.190	0.0039	-2.5 to 2.5	Pass
		30	3.85	3.276	0.0040	-2.5 to 2.5	Pass
		40	3.85	3.605	0.0044	-2.5 to 2.5	Pass
		50	3.85	4.549	0.0055	-2.5 to 2.5	Pass
	836.6	20	3.27	7.124	0.0085	-2.5 to 2.5	Pass
			3.85	6.716	0.0080	-2.5 to 2.5	Pass
			4.43	5.229	0.0063	-2.5 to 2.5	Pass
		-30	3.85	3.784	0.0045	-2.5 to 2.5	Pass
		-20	3.85	3.462	0.0041	-2.5 to 2.5	Pass
		-10	3.85	3.147	0.0038	-2.5 to 2.5	Pass
		0	3.85	2.711	0.0032	-2.5 to 2.5	Pass
		10	3.85	5.393	0.0064	-2.5 to 2.5	Pass
		30	3.85	7.489	0.0090	-2.5 to 2.5	Pass
		40	3.85	5.836	0.0070	-2.5 to 2.5	Pass
		50	3.85	5.078	0.0061	-2.5 to 2.5	Pass
	846.6	20	3.27	2.482	0.0029	-2.5 to 2.5	Pass
			3.85	3.290	0.0039	-2.5 to 2.5	Pass

			4.43	2.539	0.0030	-2.5 to 2.5	Pass
		-30	3.85	2.775	0.0033	-2.5 to 2.5	Pass
		-20	3.85	2.010	0.0024	-2.5 to 2.5	Pass
		-10	3.85	2.038	0.0024	-2.5 to 2.5	Pass
		0	3.85	2.861	0.0034	-2.5 to 2.5	Pass
		10	3.85	1.566	0.0018	-2.5 to 2.5	Pass
		30	3.85	1.781	0.0021	-2.5 to 2.5	Pass
		40	3.85	1.688	0.0020	-2.5 to 2.5	Pass
		50	3.85	1.802	0.0021	-2.5 to 2.5	Pass
HSUPA	826.4	20	3.27	-2.253	-0.0027	-2.5 to 2.5	Pass
			3.85	-2.339	-0.0028	-2.5 to 2.5	Pass
			4.43	-3.047	-0.0037	-2.5 to 2.5	Pass
		-30	3.85	-2.046	-0.0025	-2.5 to 2.5	Pass
		-20	3.85	-4.406	-0.0053	-2.5 to 2.5	Pass
		-10	3.85	-7.246	-0.0088	-2.5 to 2.5	Pass
		0	3.85	-4.163	-0.0050	-2.5 to 2.5	Pass
		10	3.85	-3.526	-0.0043	-2.5 to 2.5	Pass
		30	3.85	-8.354	-0.0101	-2.5 to 2.5	Pass
		40	3.85	-1.802	-0.0022	-2.5 to 2.5	Pass
		50	3.85	-5.014	-0.0061	-2.5 to 2.5	Pass
	836.6	20	3.27	-1.409	-0.0017	-2.5 to 2.5	Pass
			3.85	-0.150	-0.0002	-2.5 to 2.5	Pass
			4.43	1.280	0.0015	-2.5 to 2.5	Pass
		-30	3.85	-3.483	-0.0042	-2.5 to 2.5	Pass
		-20	3.85	-4.892	-0.0058	-2.5 to 2.5	Pass
		-10	3.85	-3.004	-0.0036	-2.5 to 2.5	Pass
		0	3.85	-4.950	-0.0059	-2.5 to 2.5	Pass
		10	3.85	-5.686	-0.0068	-2.5 to 2.5	Pass
		30	3.85	-8.590	-0.0103	-2.5 to 2.5	Pass
		40	3.85	-1.409	-0.0017	-2.5 to 2.5	Pass
		50	3.85	-4.592	-0.0055	-2.5 to 2.5	Pass
	846.6	20	3.27	-3.312	-0.0039	-2.5 to 2.5	Pass
			3.85	-3.762	-0.0044	-2.5 to 2.5	Pass
			4.43	-2.532	-0.0030	-2.5 to 2.5	Pass
		-30	3.85	-1.874	-0.0022	-2.5 to 2.5	Pass
		-20	3.85	-2.475	-0.0029	-2.5 to 2.5	Pass
		-10	3.85	-6.187	-0.0073	-2.5 to 2.5	Pass
		0	3.85	-2.811	-0.0033	-2.5 to 2.5	Pass
		10	3.85	-4.456	-0.0053	-2.5 to 2.5	Pass
		30	3.85	-4.327	-0.0051	-2.5 to 2.5	Pass
		40	3.85	-2.682	-0.0032	-2.5 to 2.5	Pass
		50	3.85	-1.667	-0.0020	-2.5 to 2.5	Pass

3. Modulation Characteristics

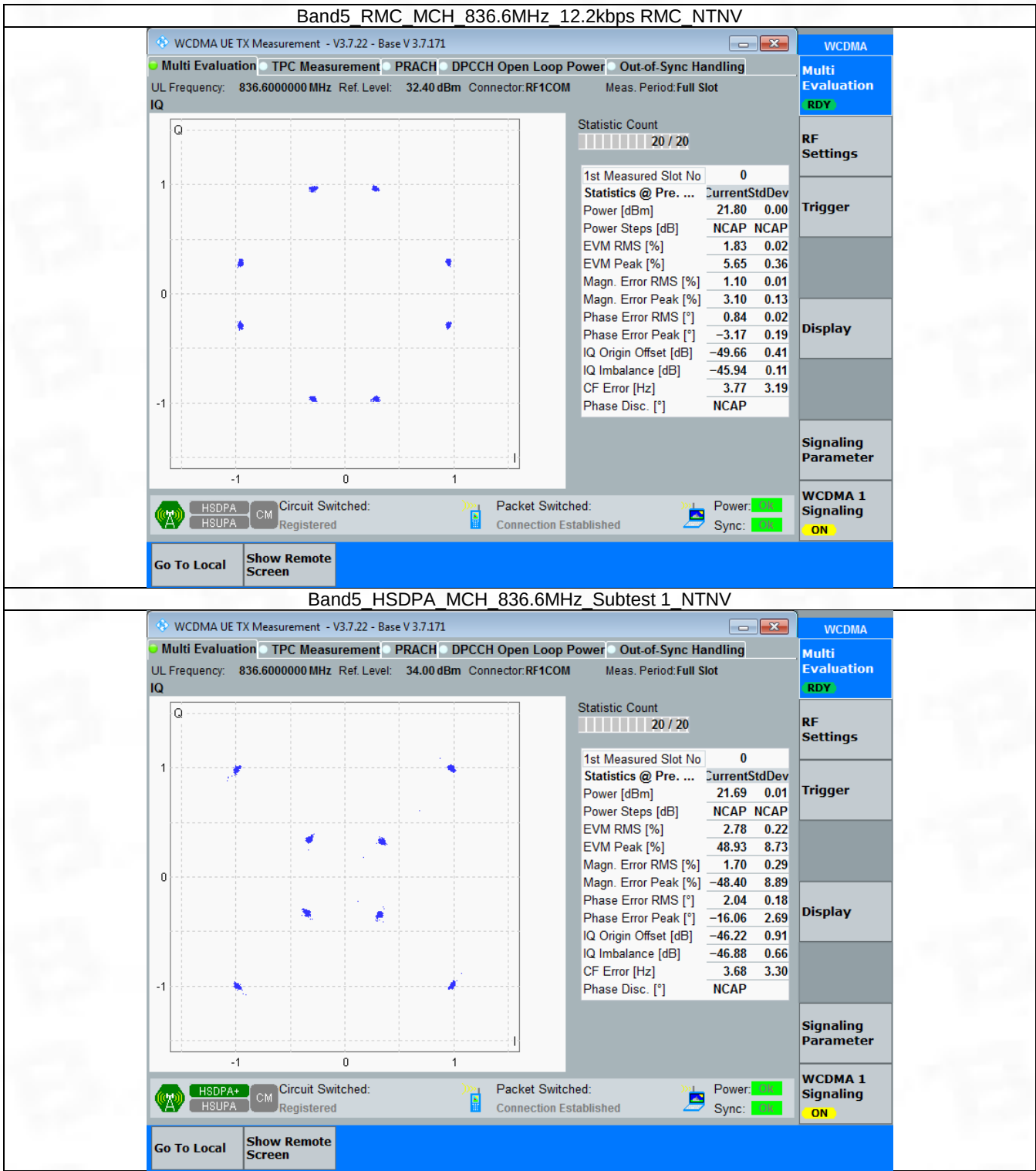
3.1 Band5

3.1.1 Test Result

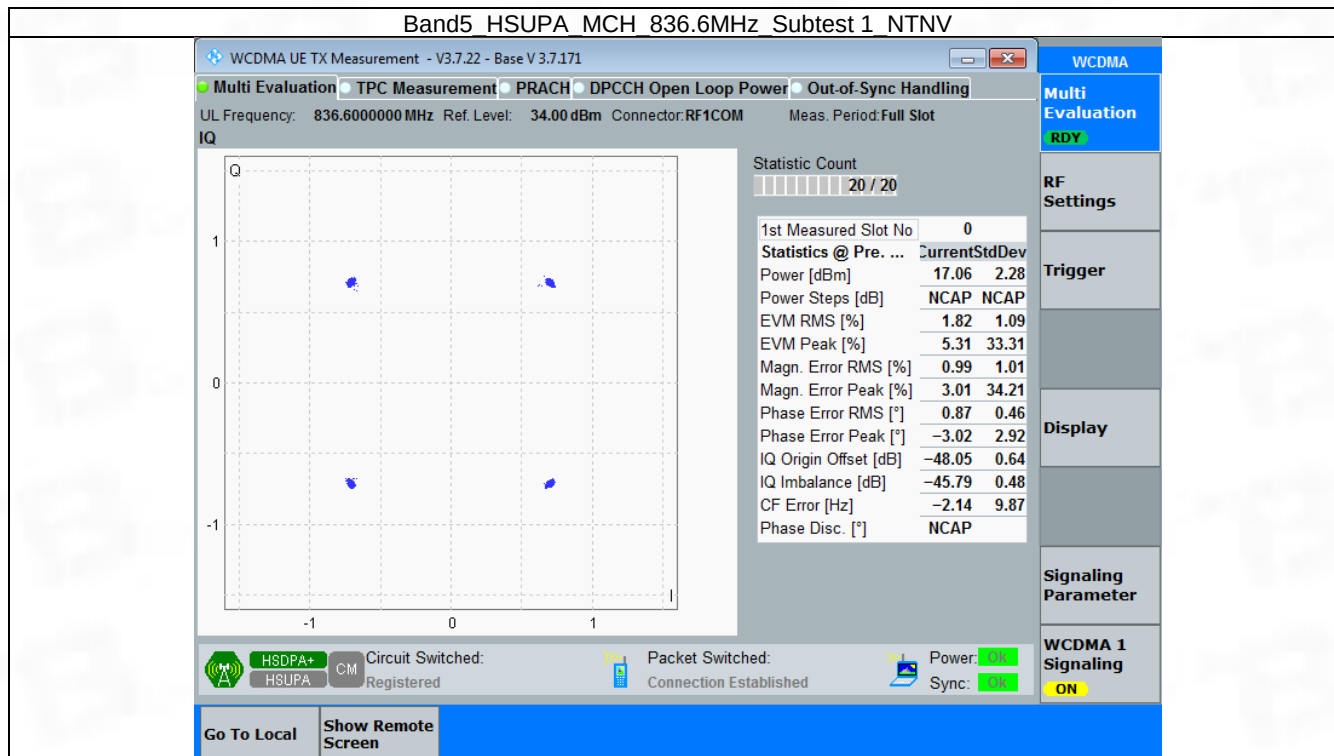
Band: 5						
ENV	Mode		Frequency (MHz)	Modulation Characteristics		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	836.6	Refer To Test Graph		Pass

	HSDPA	Subtest 1	836.6	Refer To Test Graph	Pass
	HSUPA	Subtest 1	836.6	Refer To Test Graph	Pass

3.1.2 Test Graph



Band5 HSUPA MCH 836.6MHz Subtest 1 NTN



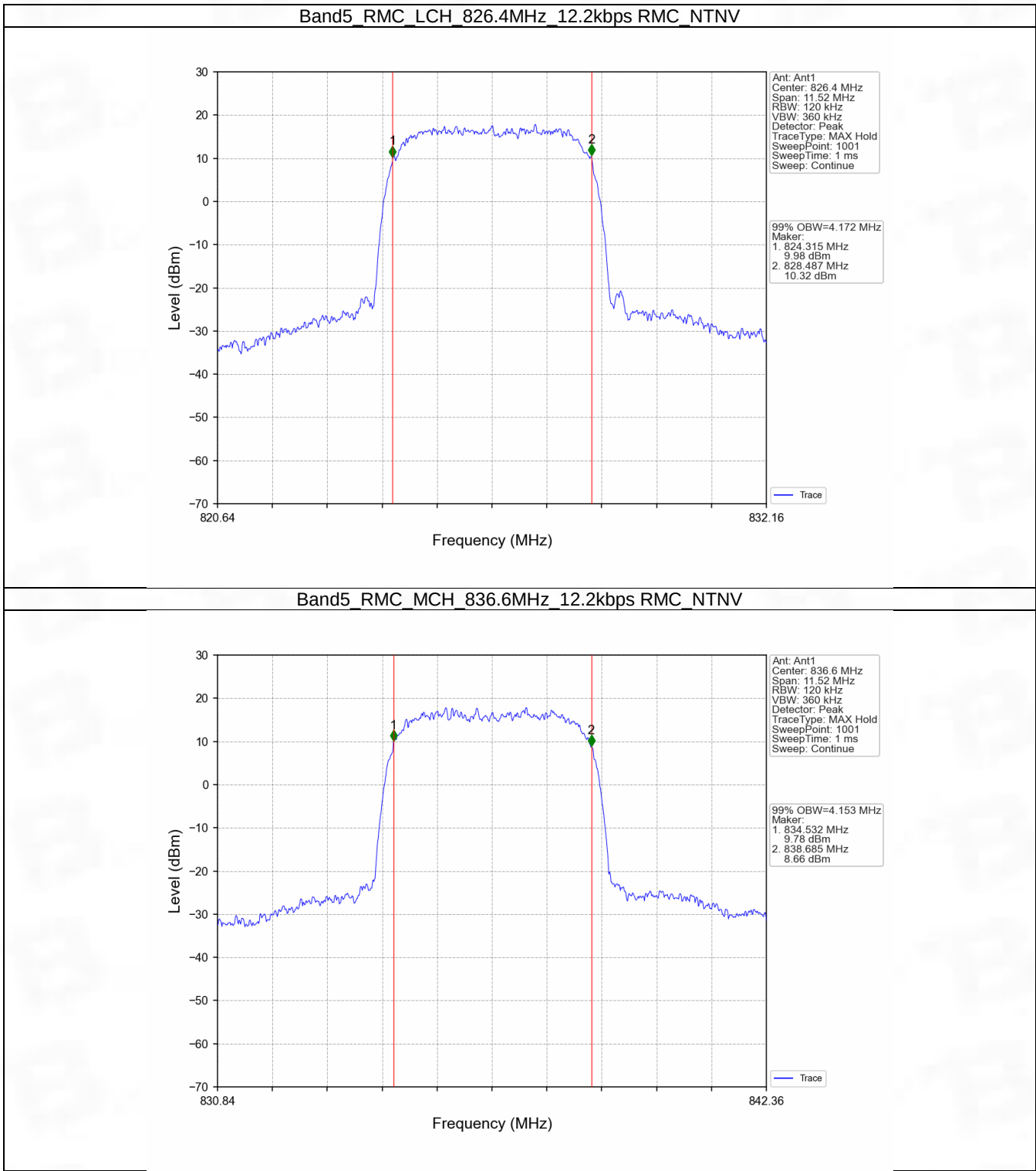
4. 99% & 26dB Bandwidth

4.1 Band5_OBW

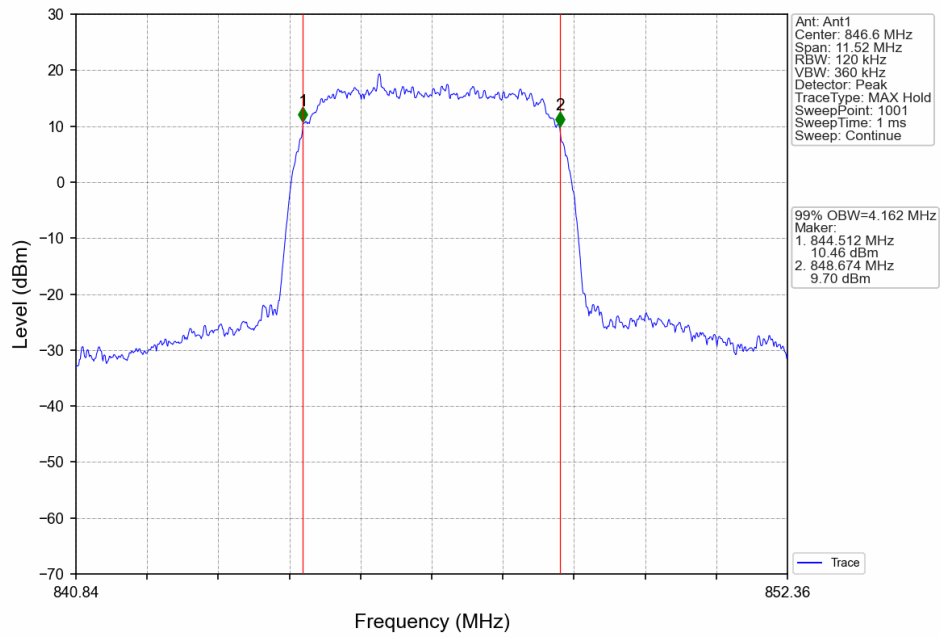
4.1.1 Test Result

Band: 5					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	826.4	4.172	Pass
			836.6	4.153	Pass
			846.6	4.162	Pass
	HSDPA	Subtest 1	826.4	4.176	Pass
			836.6	4.153	Pass
			846.6	4.169	Pass
	HSUPA	Subtest 1	826.4	4.164	Pass
			836.6	4.166	Pass
			846.6	4.154	Pass

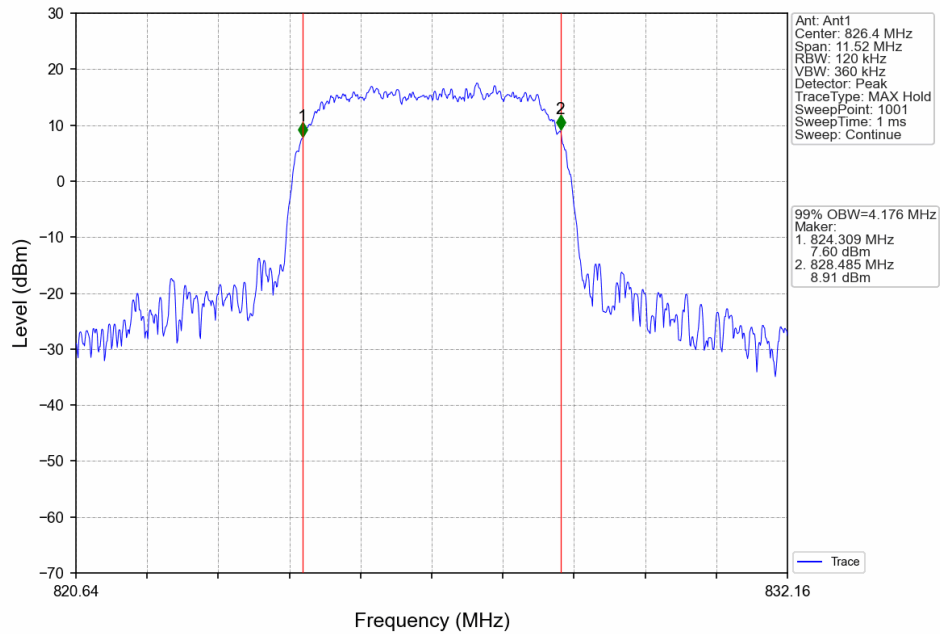
4.1.2 Test Graph



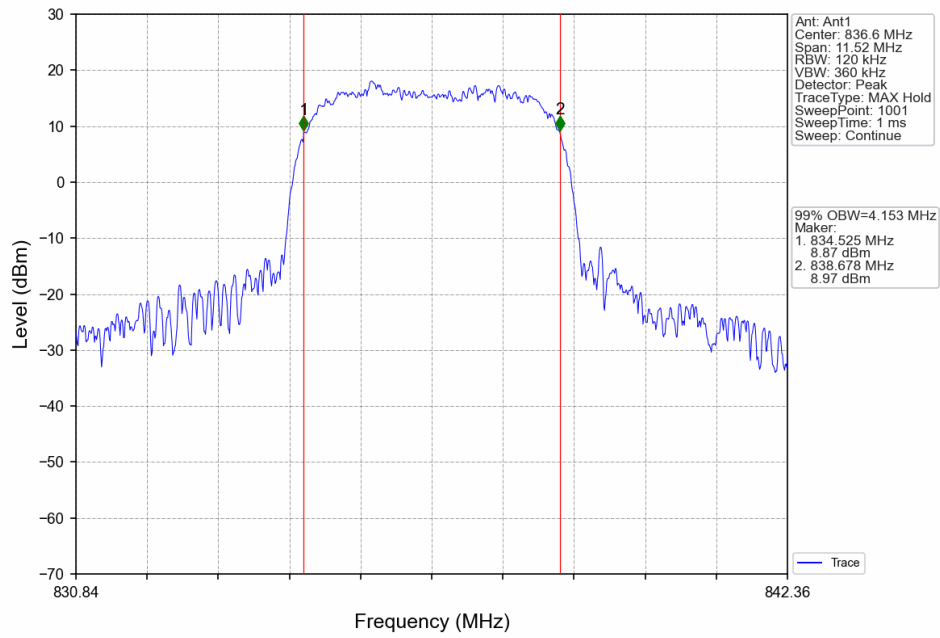
Band5_RMC_HCH_846.6MHz_12.2kbps_RMC_NTNV



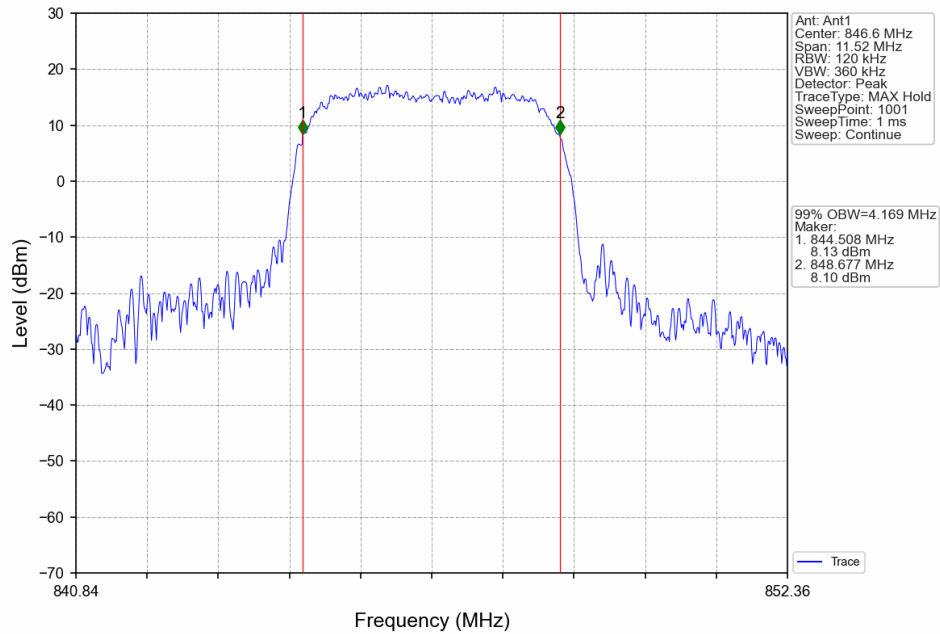
Band5_HSDPA_LCH_826.4MHz_Subtest 1_NTNV



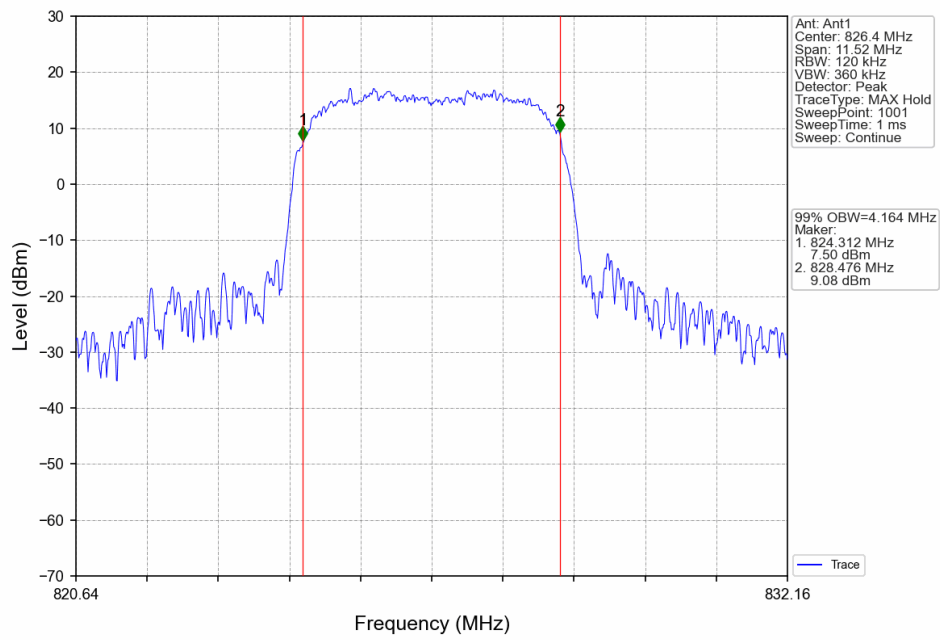
Band5 HSDPA MCH 836.6MHz Subtest 1 NTN



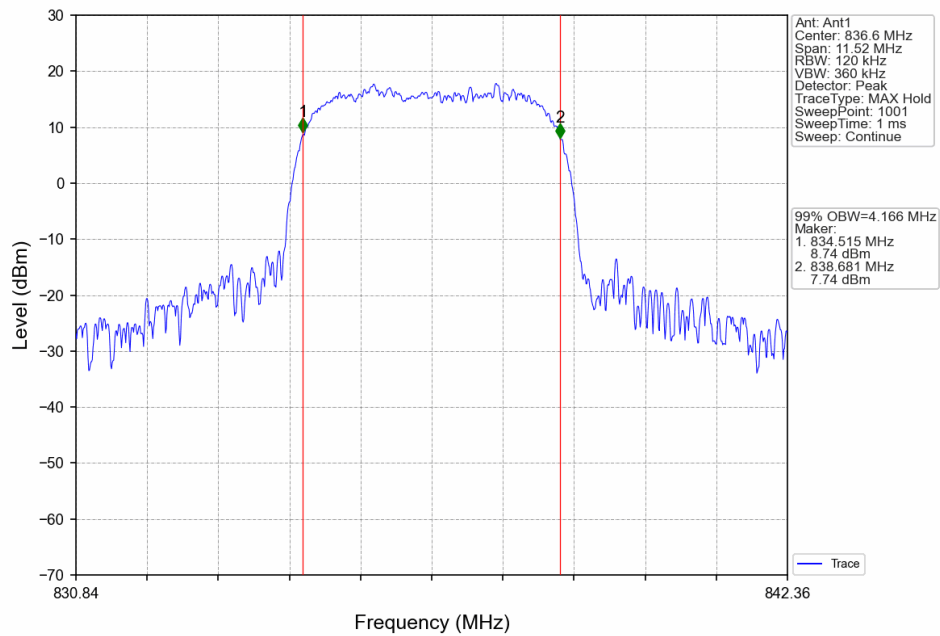
Band5 HSDPA HCH 846.6MHz Subtest 1 NTN



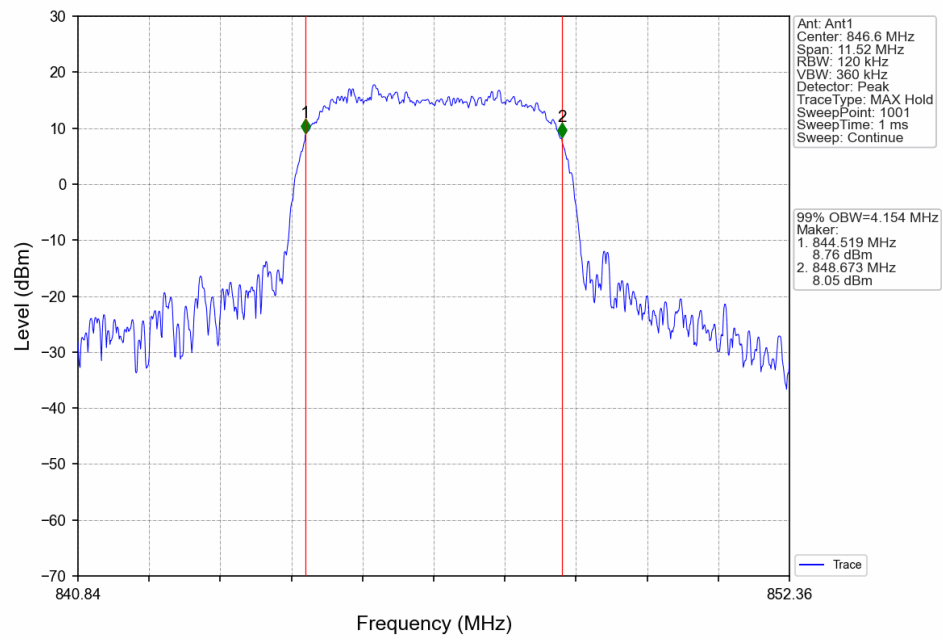
Band5_HSUPA_LCH_826.4MHz_Subtest 1_NTNV



Band5_HSUPA_MCH_836.6MHz_Subtest 1_NTNV



Band5 HSUPA HCH 846.6MHz Subtest 1 NTN

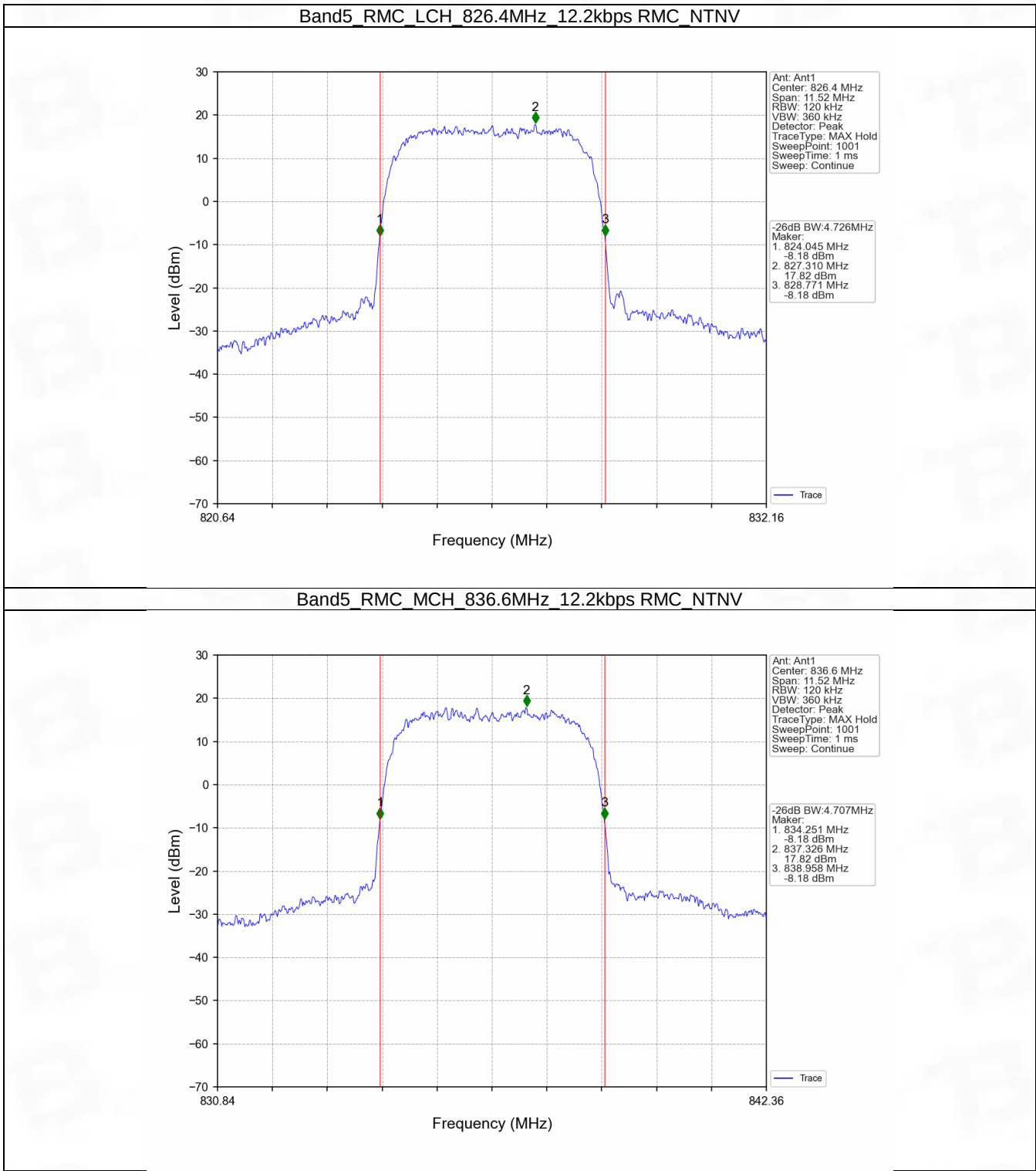


4.2 Band5_XDB

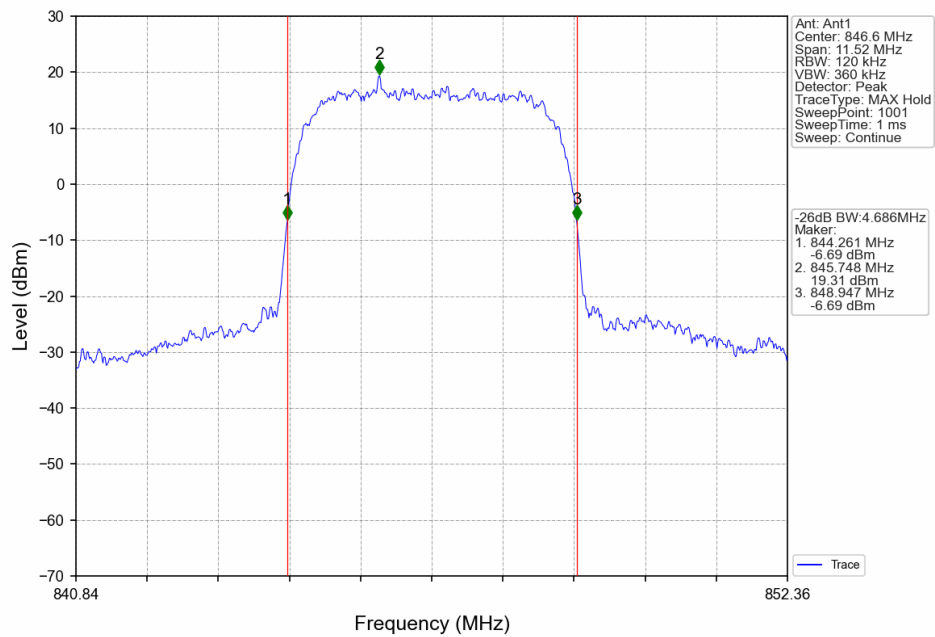
4.2.1 Test Result

Band: 5					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	826.4	4.726	Pass
			836.6	4.707	Pass
			846.6	4.686	Pass
	HSDPA	Subtest 1	826.4	4.702	Pass
			836.6	4.689	Pass
			846.6	4.708	Pass
	HSUPA	Subtest 1	826.4	4.703	Pass
			836.6	4.712	Pass
			846.6	4.690	Pass

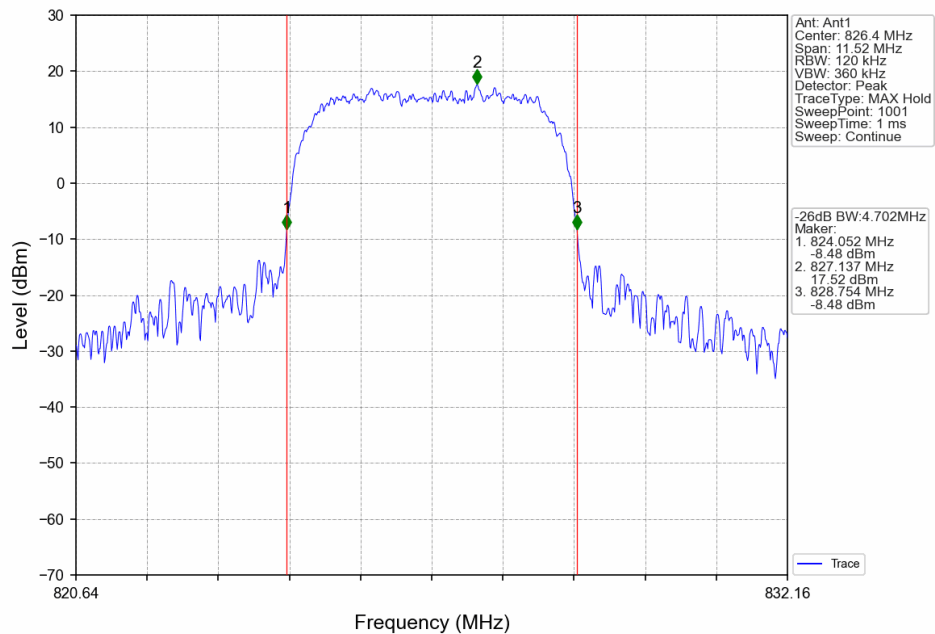
4.2.2 Test Graph



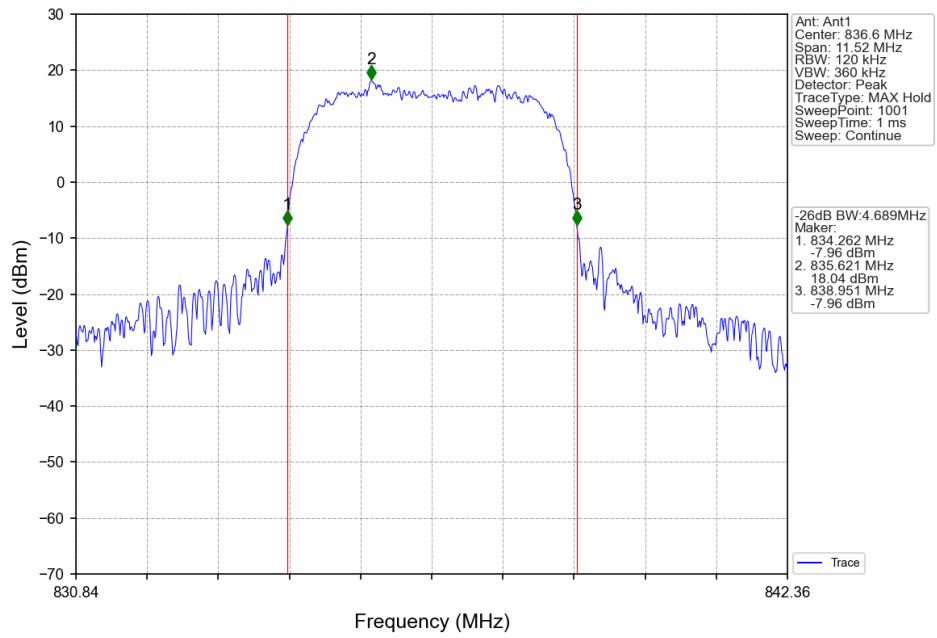
Band5_RMC_HCH_846.6MHz_12.2kbps_RMC_NTNV



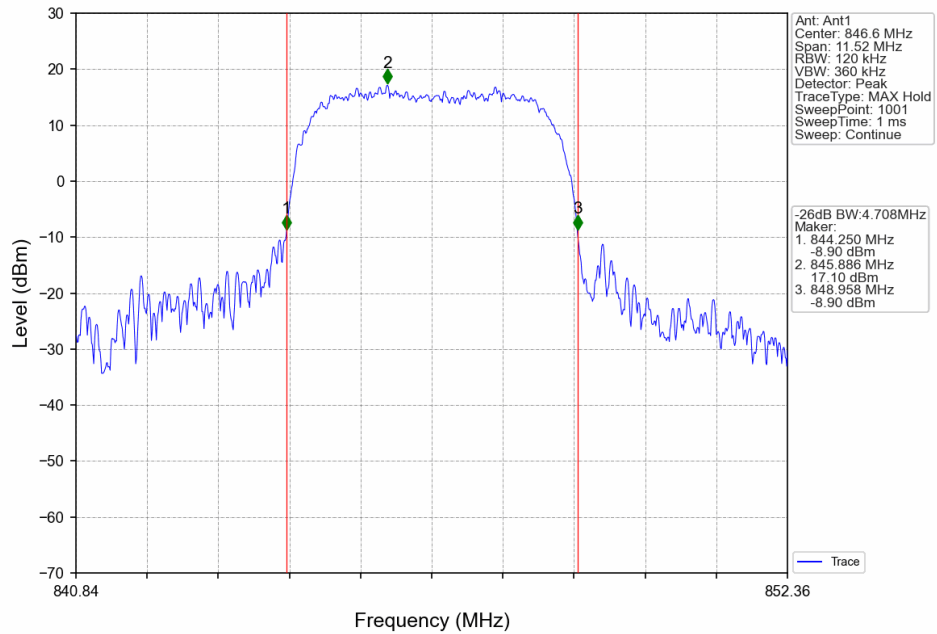
Band5_HSDPA_LCH_826.4MHz_Subtest 1_NTNV



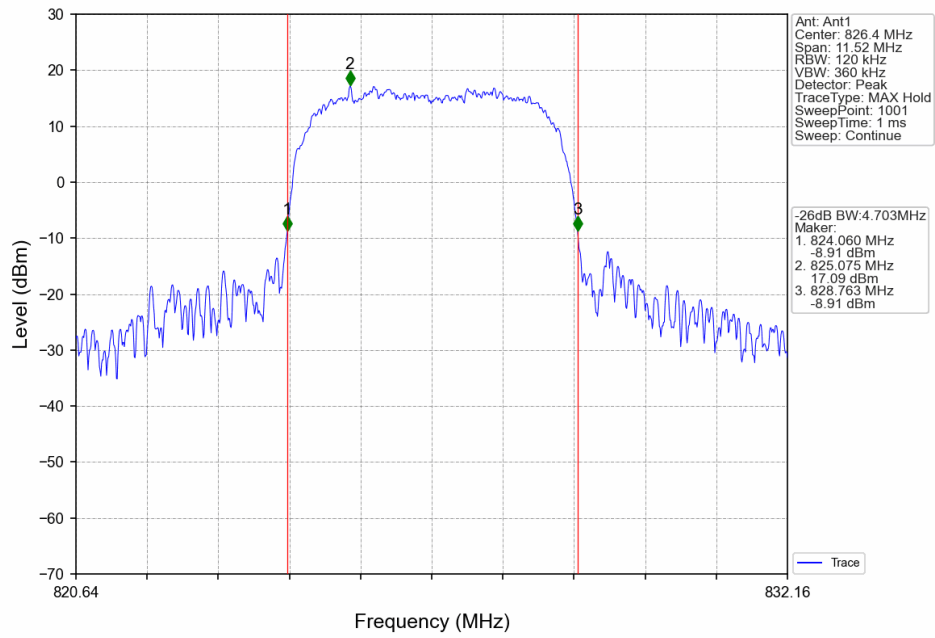
Band5 HSDPA MCH 836.6MHz Subtest 1 NTN



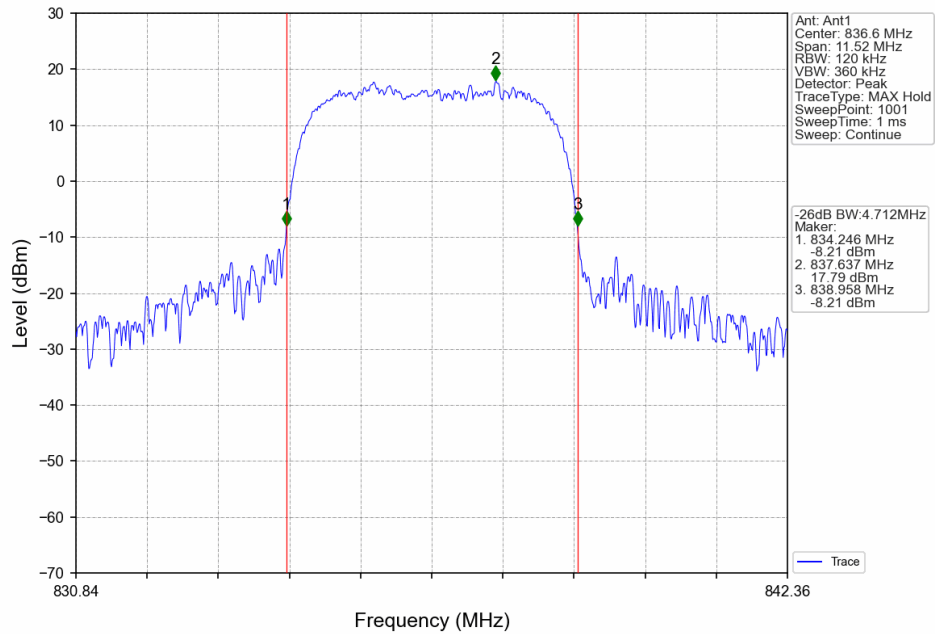
Band5 HSDPA HCH 846.6MHz Subtest 1 NTN



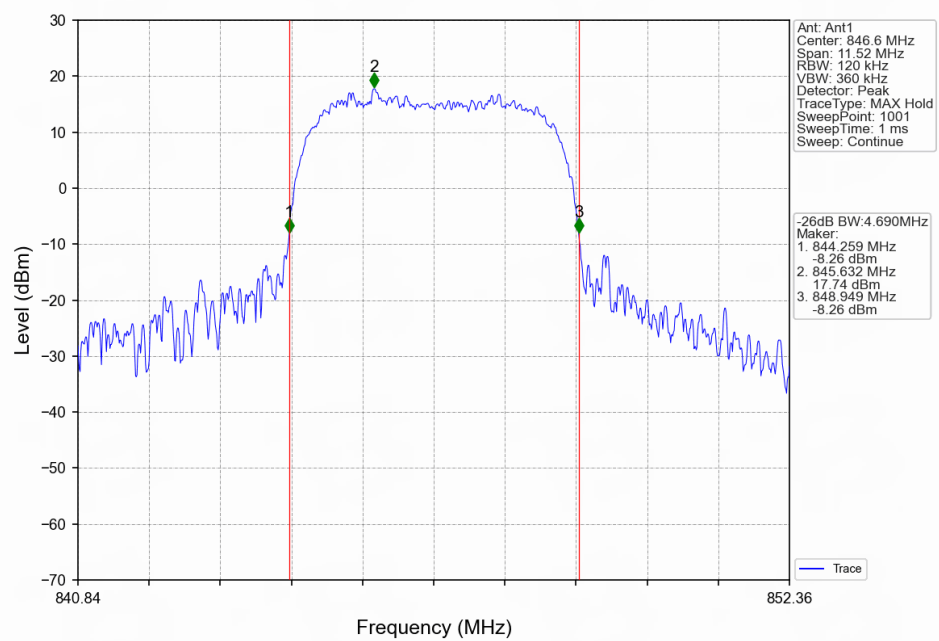
Band5_HSUPA_LCH_826.4MHz_Subtest 1_NTNV



Band5_HSUPA_MCH_836.6MHz_Subtest 1_NTNV



Band5 HSUPA HCH 846.6MHz Subtest 1 NTN



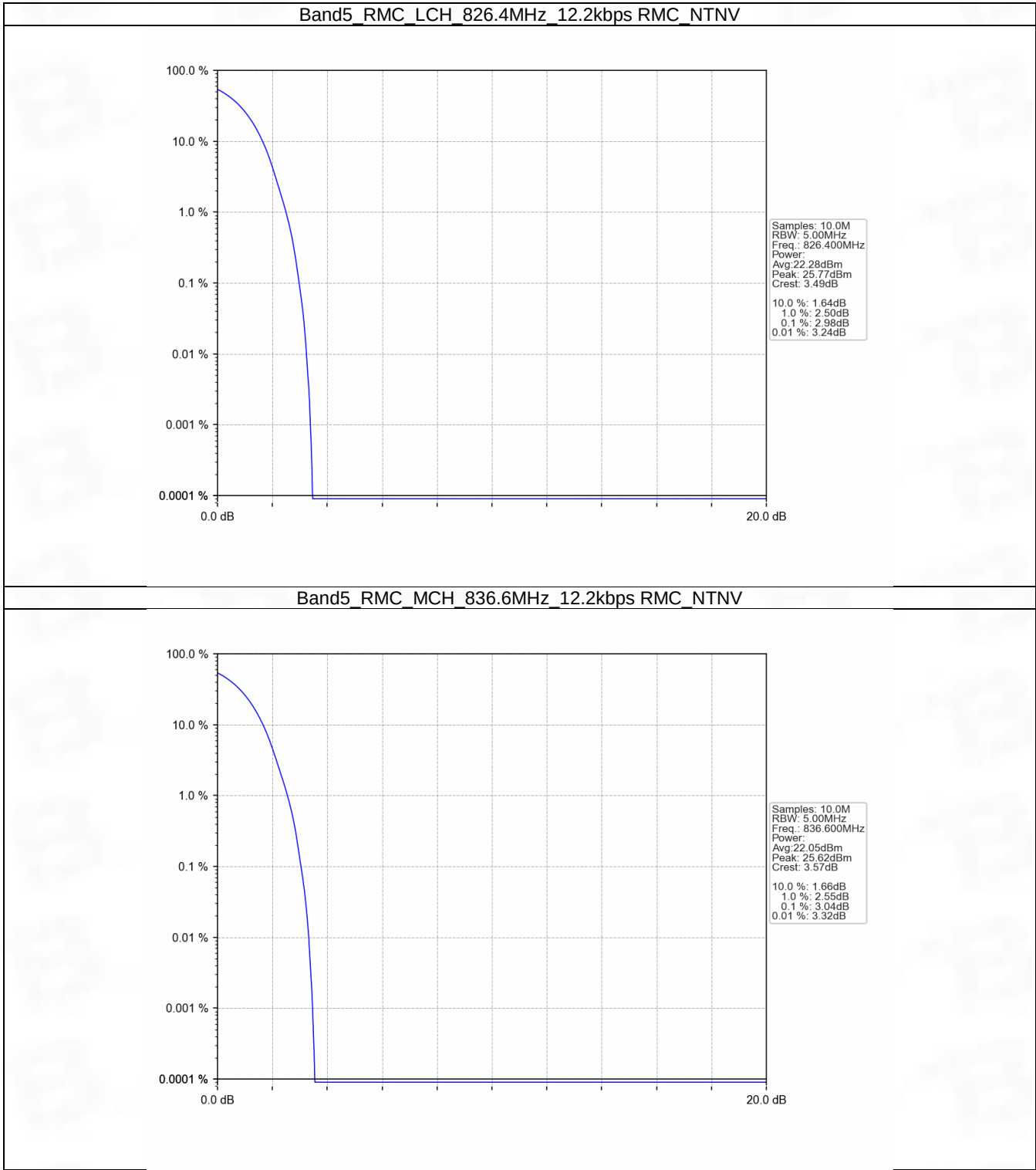
5. Peak-Average Ratio

5.1 Band5

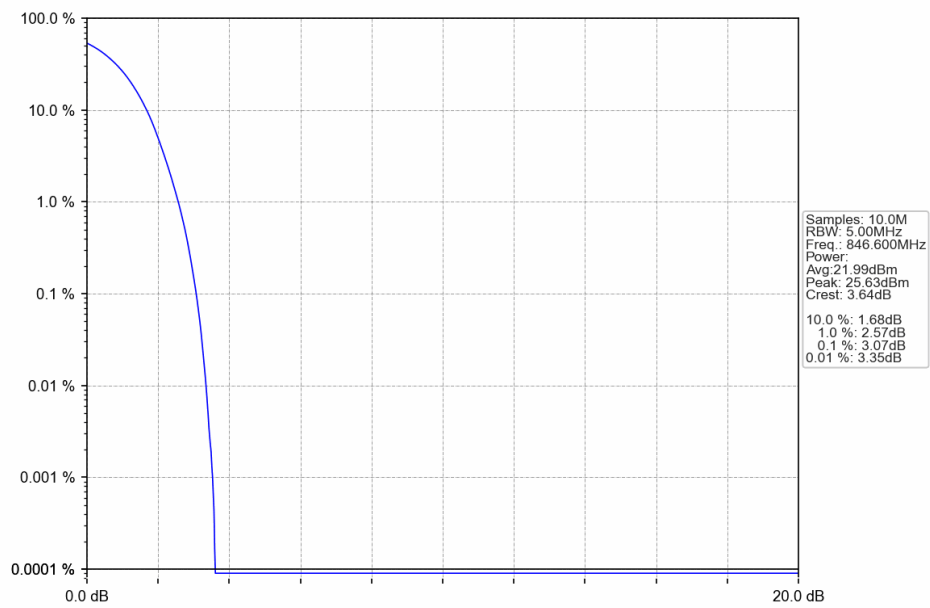
5.1.1 Test Result

Band: 5						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	2.98	<=13	Pass
			836.6	3.04	<=13	Pass
			846.6	3.07	<=13	Pass
	HSDPA	Subtest 1	826.4	5.59	<=13	Pass
			836.6	5.58	<=13	Pass
			846.6	5.65	<=13	Pass
	HSUPA	Subtest 1	826.4	5.60	<=13	Pass
			836.6	5.56	<=13	Pass
			846.6	5.67	<=13	Pass

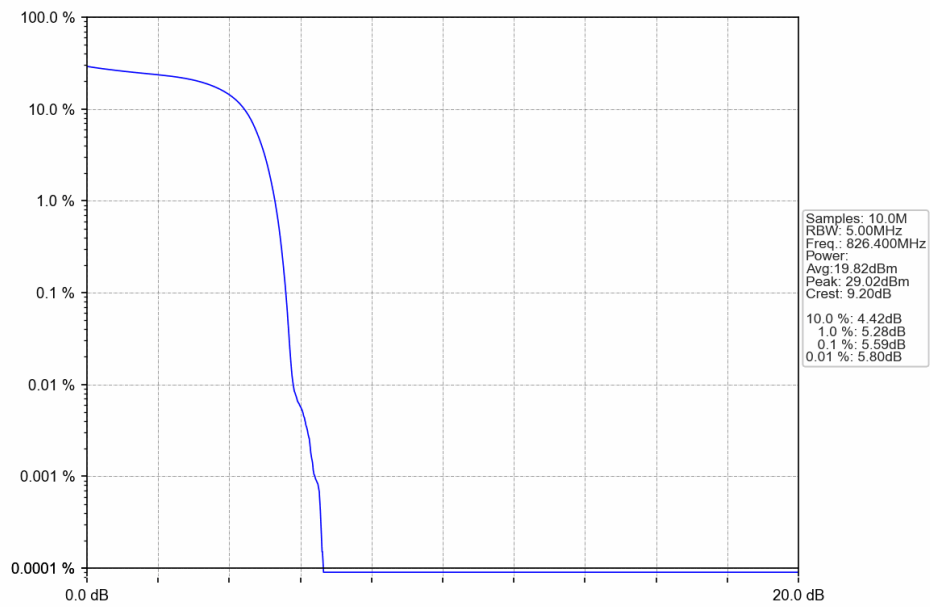
5.1.2 Test Graph



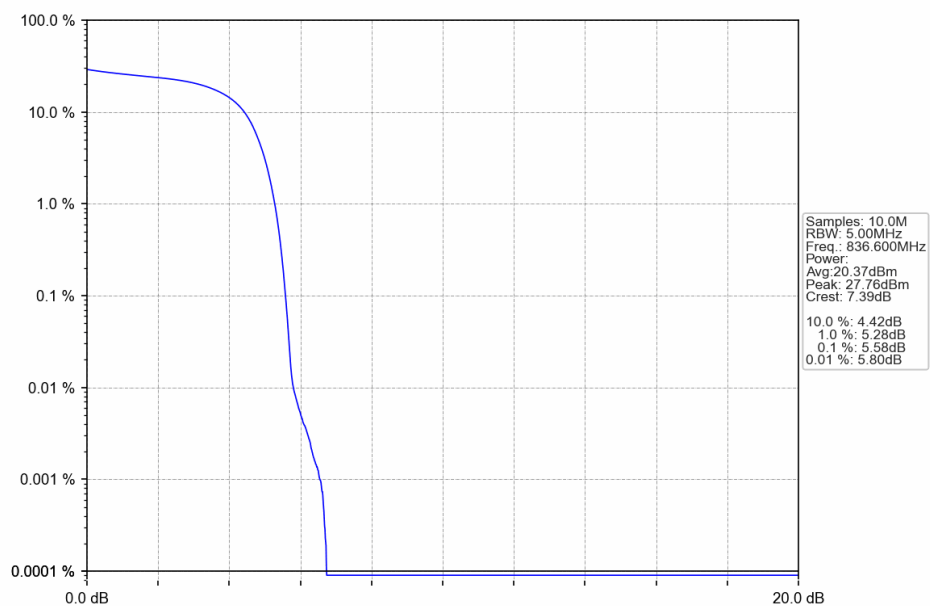
Band5_RMC_HCH_846.6MHz_12.2kbps_RMC_NTNV



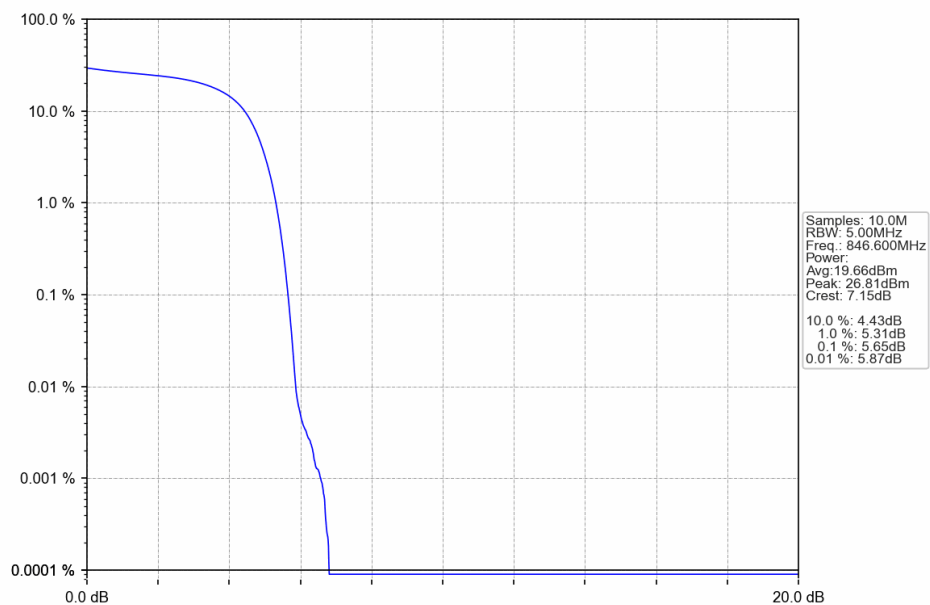
Band5_HSDPA_LCH_826.4MHz_Subtest 1_NTNV



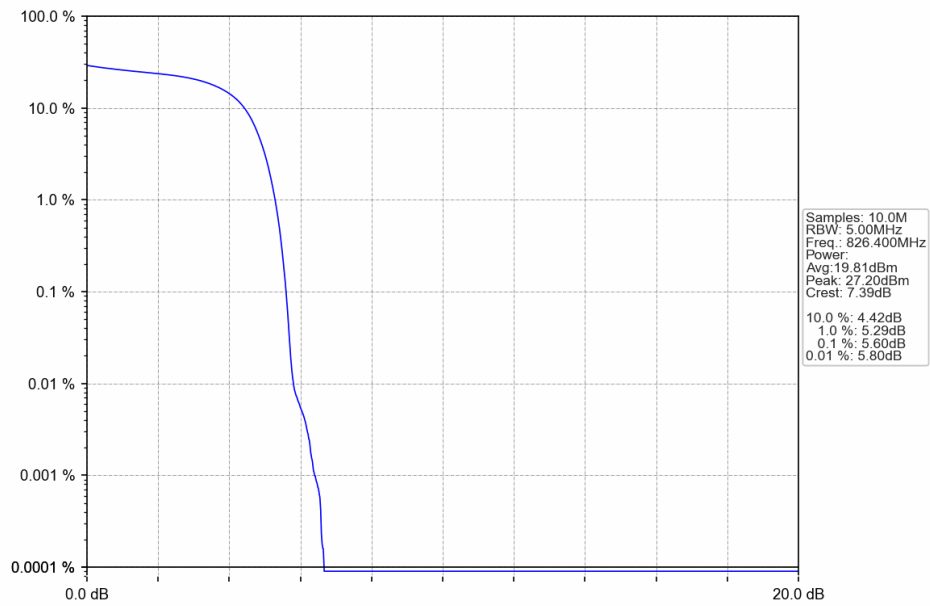
Band5 HSDPA MCH 836.6MHz Subtest 1 NTN



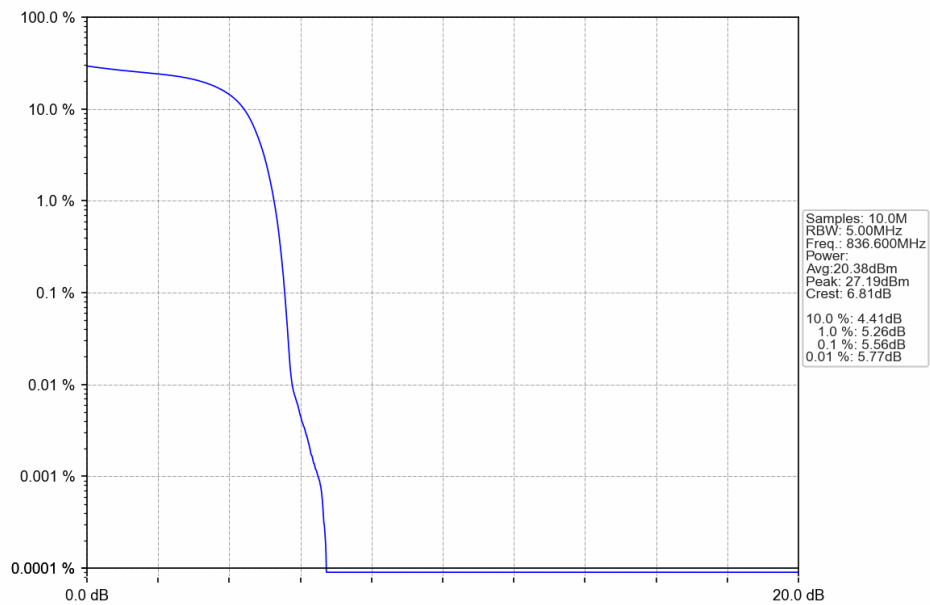
Band5 HSDPA HCH 846.6MHz Subtest 1 NTN



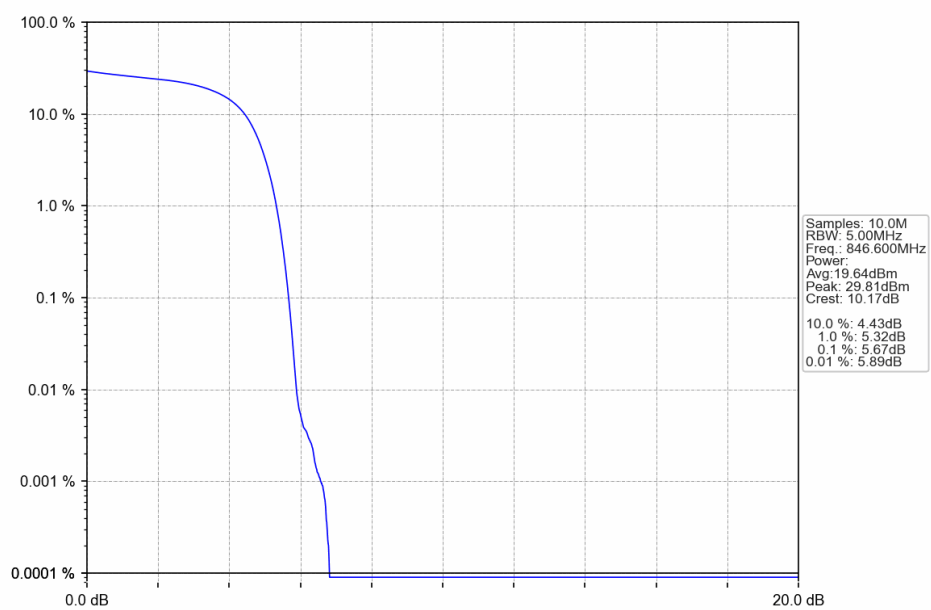
Band5 HSUPA LCH 826.4MHz Subtest 1 NTN



Band5 HSUPA MCH 836.6MHz Subtest 1 NTN



Band5 HSUPA HCH 846.6MHz Subtest 1 NTN



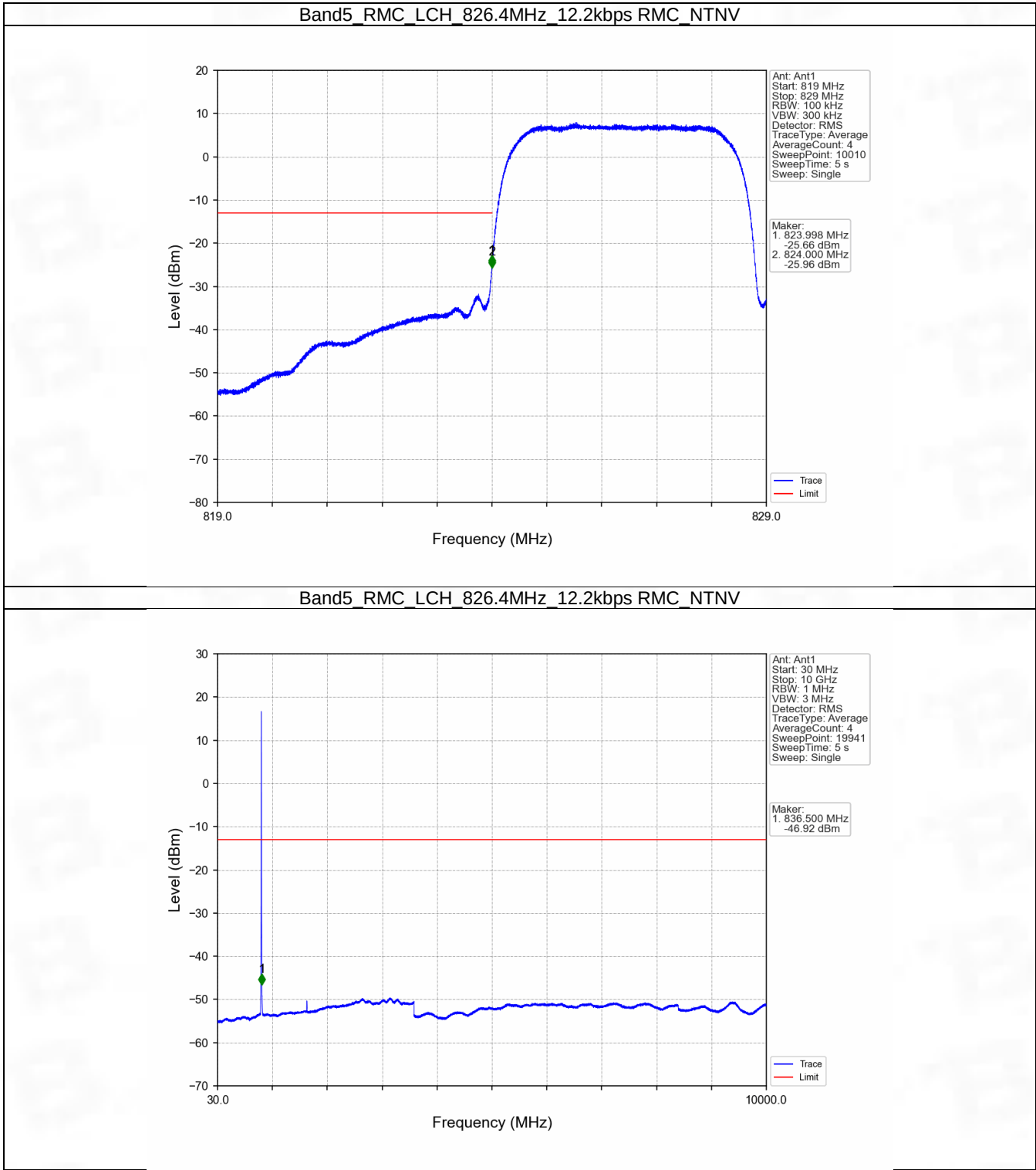
6. Spurious Emission

6.1 Band5

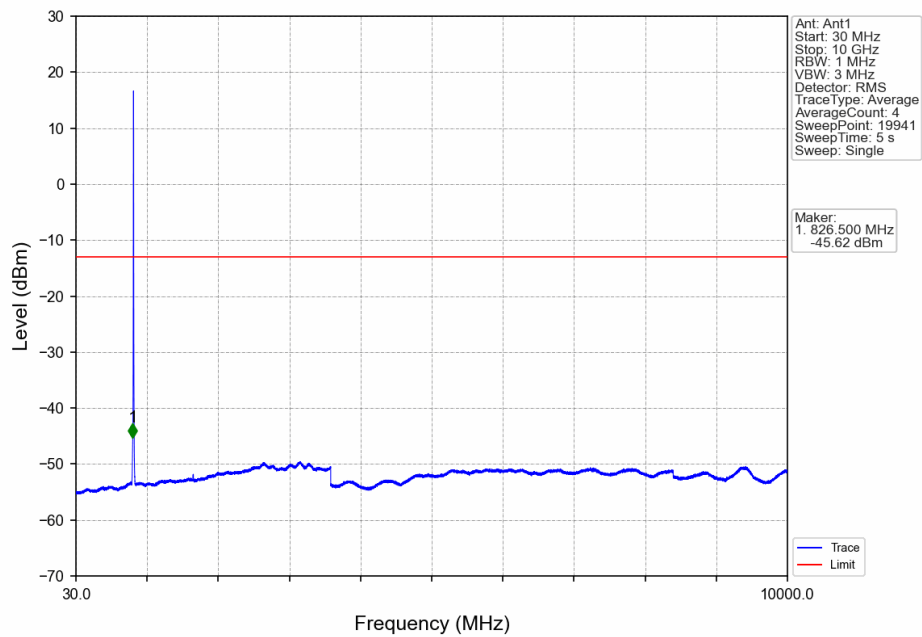
6.1.1 Test Result

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	

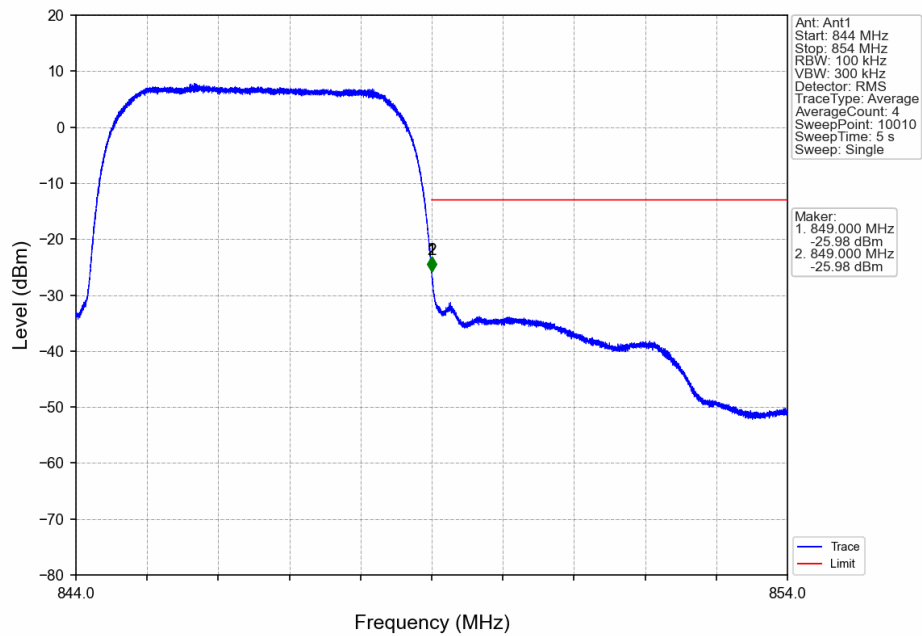
6.1.2 Test Graph



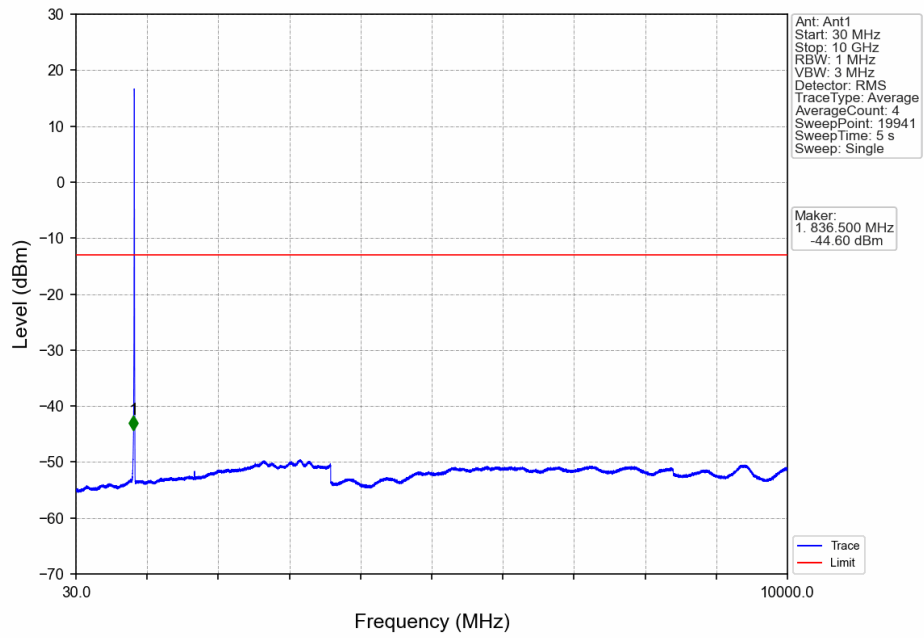
Band5_RMC_MCH_836.6MHz_12.2kbps_RMC_NTNV



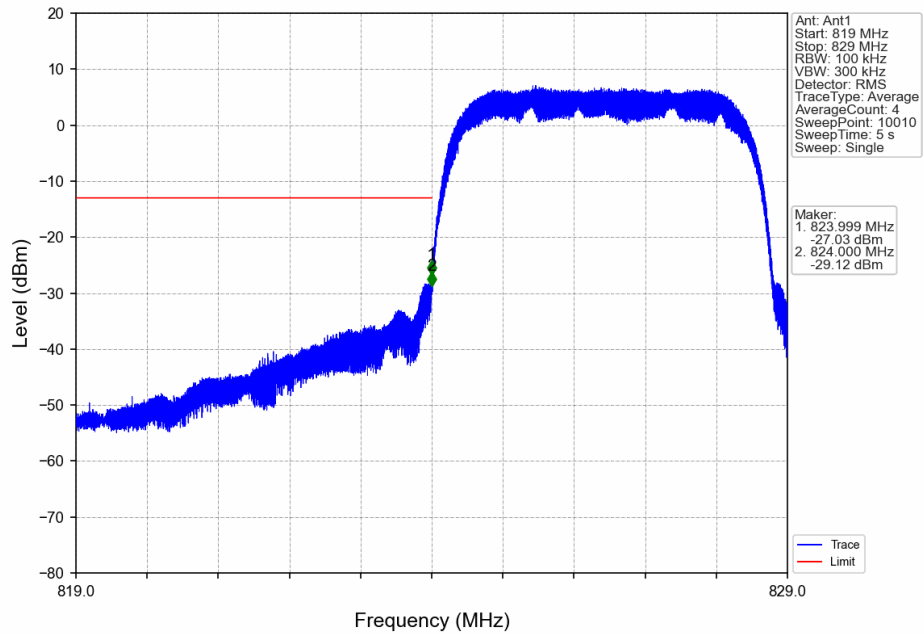
Band5_RMC_HCH_846.6MHz_12.2kbps_RMC_NTNV



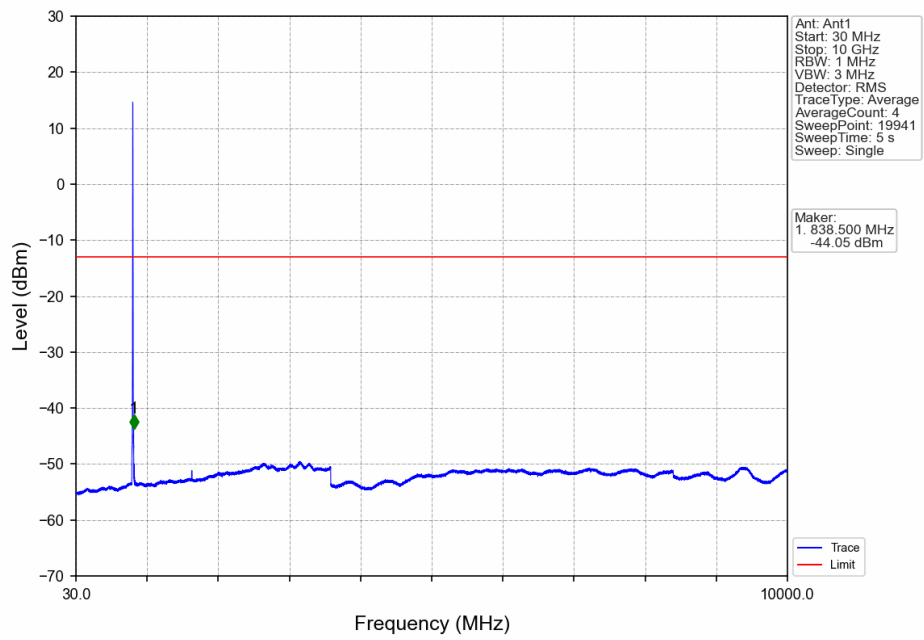
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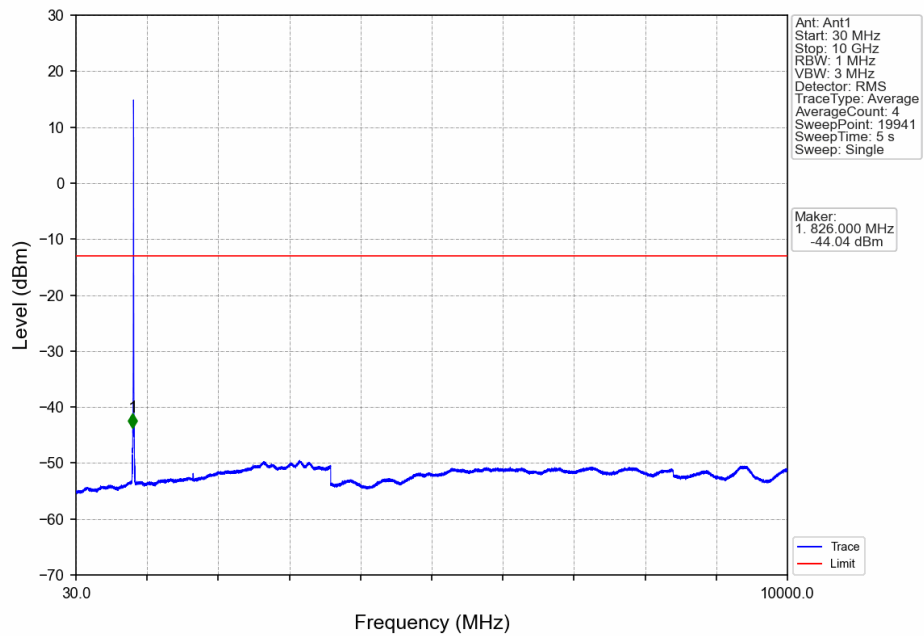
Band5_HSDPA_LCH_826.4MHz_Subtest 1_NTNV



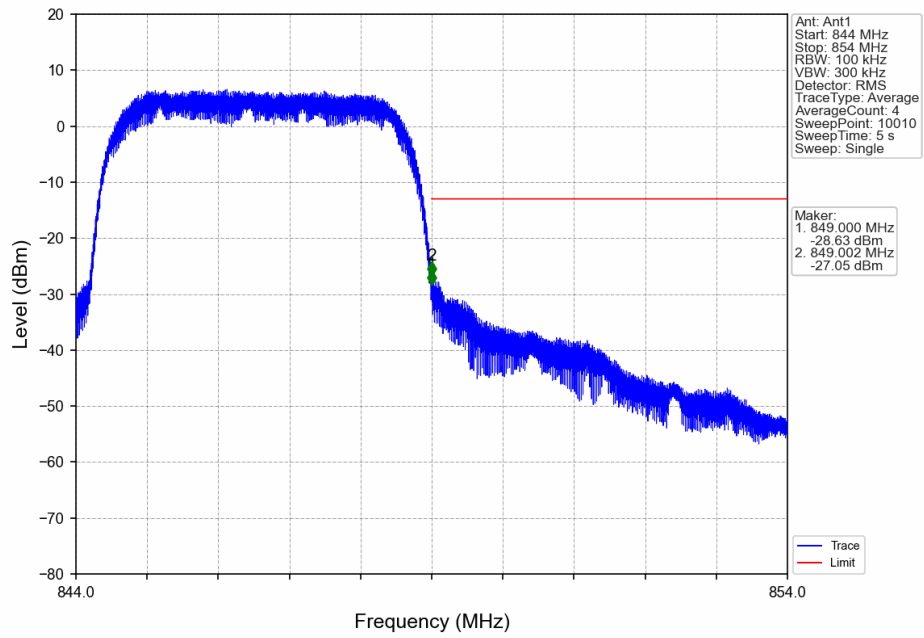
Band5_HSDPA_LCH_826.4MHz_Subtest_1_NTNV



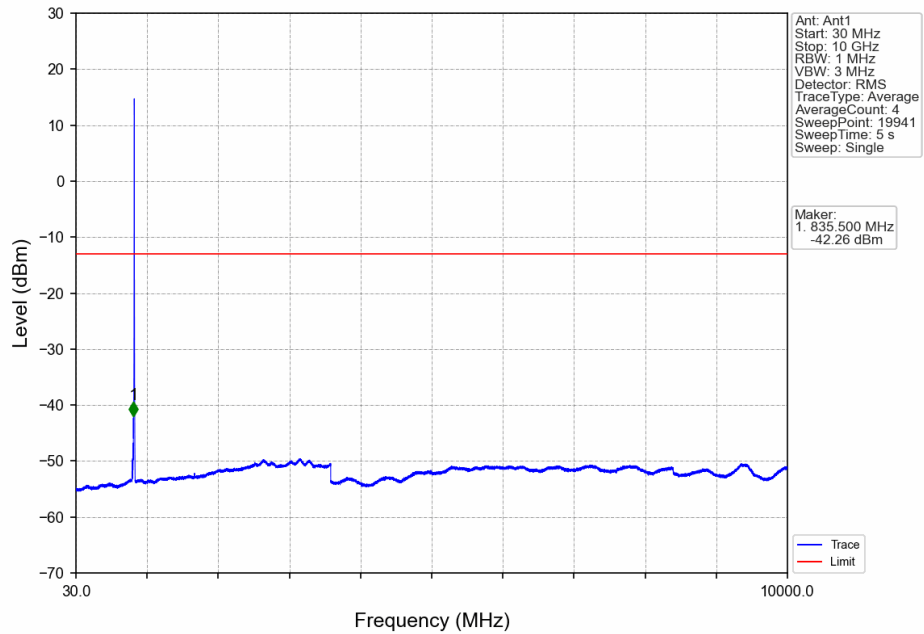
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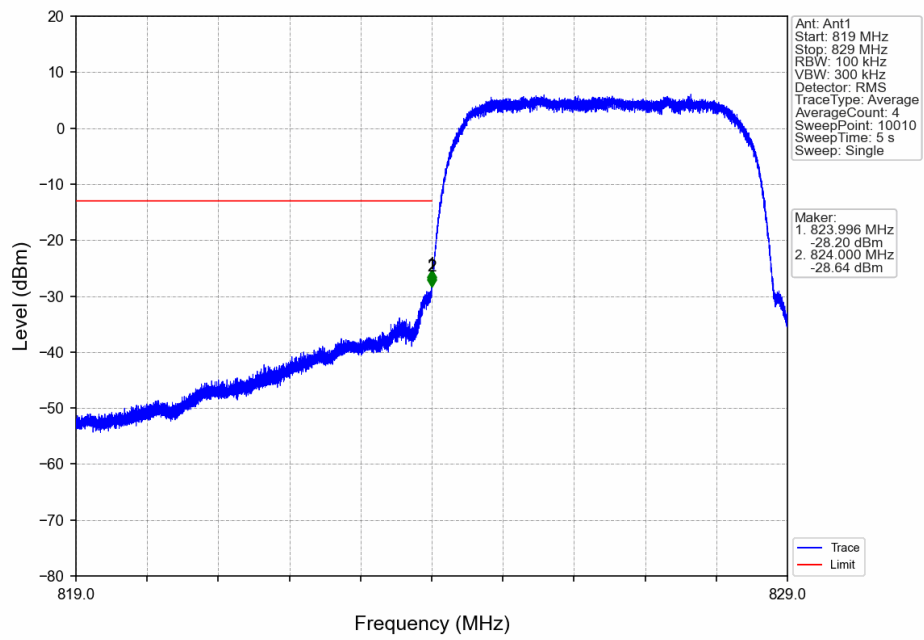
Band5 HSDPA HCH 846.6MHz Subtest 1 NTN



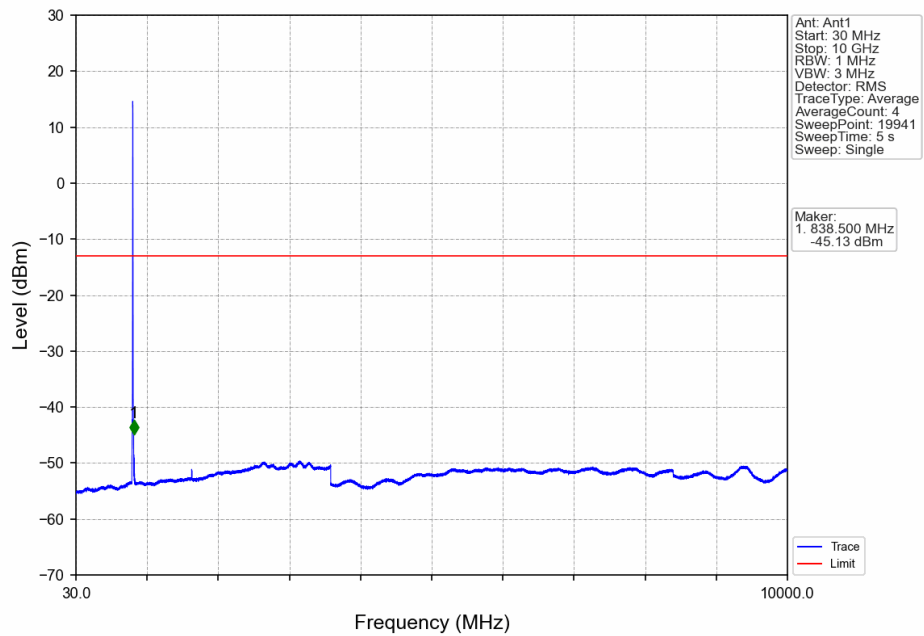
Band5 HSDPA HCH 846.6MHz Subtest 1 NTN



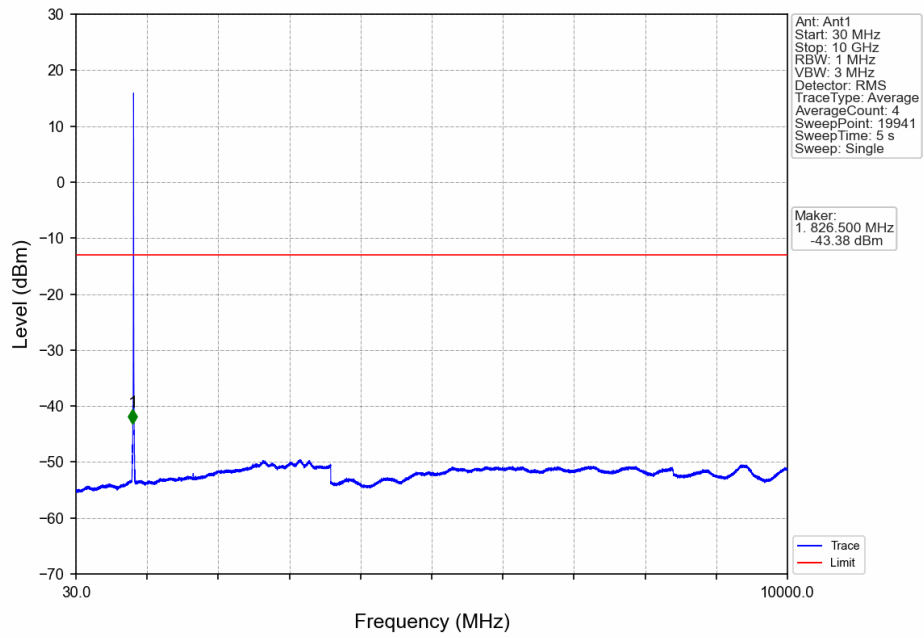
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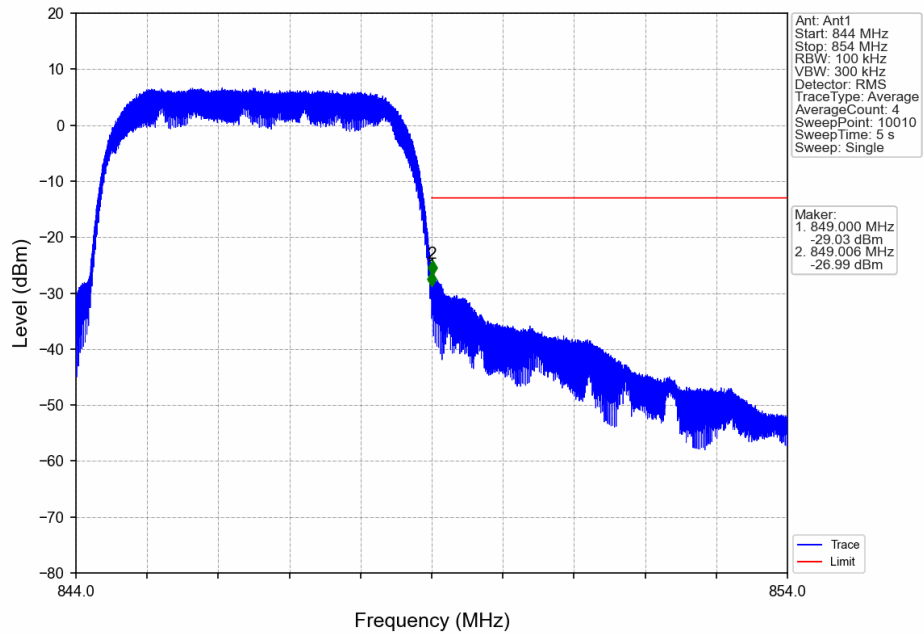
Band5_HSUPA_LCH_826.4MHz_Subtest 1_NTNV



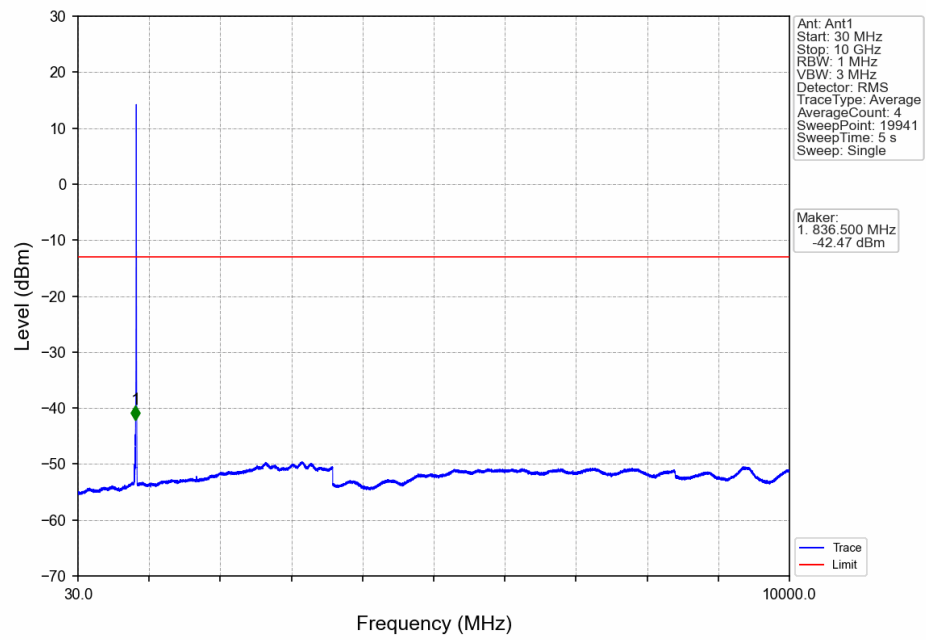
Band5 HSUPA MCH 836.6MHz Subtest 1 NTN



Band5 HSUPA HCH 846.6MHz Subtest 1 NTN



Band5 HSUPA HCH 846.6MHz Subtest 1 NTN



7. Form731

7.1 Form731_Power

7.1.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
5	3.84	826.4	846.6	0.1531	0.0103	ppm	4M18F9W	24E	21.85

7.2 Form731_ERP

7.2.1 Test Result

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	0.0793	0.0103	ppm	4M18F9W	24E	18.99