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Appendix B.3

WCDMA Band V



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1. Effective (Isotropic) Radiated Power Output Data

1.1 Band V_ERP (NPANT002)

1.1.1 Test Result

Table with columns: ENV, Mode (Network, Subset), Frequency (MHz), Conducted Power (dBm), Gain (dBi), ERP (dBm) (Result, Limit), Verdict. Data rows for NTNV with RMC mode at 826.4, 836.6, and 846.6 MHz, all showing 'Pass' results.

Note1: ERP=Conducted Power+Antenna Gain-2.15



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2. Frequency Stability

2.1 Band V

2.1.1 Test Result

Band V							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	826.4	20	3.135	0.274	0.0003	-2.5 to 2.5	Pass
			3.7	0.014	0.0000	-2.5 to 2.5	Pass
			4.4	0.362	0.0004	-2.5 to 2.5	Pass
		-30	3.7	0.038	0.0000	-2.5 to 2.5	Pass
		-20	3.7	0.364	0.0004	-2.5 to 2.5	Pass
		-10	3.7	0.542	0.0007	-2.5 to 2.5	Pass
		0	3.7	0.212	0.0003	-2.5 to 2.5	Pass
		10	3.7	0.476	0.0006	-2.5 to 2.5	Pass
		30	3.7	-0.014	0.0000	-2.5 to 2.5	Pass
		40	3.7	0.127	0.0002	-2.5 to 2.5	Pass
	50	3.7	0.589	0.0007	-2.5 to 2.5	Pass	
	836.6	20	3.135	-0.633	-0.0008	-2.5 to 2.5	Pass
			3.7	0.155	0.0002	-2.5 to 2.5	Pass
			4.4	0.329	0.0004	-2.5 to 2.5	Pass
		-30	3.7	-0.475	-0.0006	-2.5 to 2.5	Pass
		-20	3.7	-0.874	-0.0010	-2.5 to 2.5	Pass
		-10	3.7	-0.564	-0.0007	-2.5 to 2.5	Pass
		0	3.7	-0.433	-0.0005	-2.5 to 2.5	Pass
		10	3.7	-0.330	-0.0004	-2.5 to 2.5	Pass
		30	3.7	-0.687	-0.0008	-2.5 to 2.5	Pass
		40	3.7	-0.152	-0.0002	-2.5 to 2.5	Pass
	50	3.7	-0.503	-0.0006	-2.5 to 2.5	Pass	
	846.6	20	3.135	-0.865	-0.0010	-2.5 to 2.5	Pass
			3.7	-0.655	-0.0008	-2.5 to 2.5	Pass
			4.4	-0.598	-0.0007	-2.5 to 2.5	Pass
		-30	3.7	-1.030	-0.0012	-2.5 to 2.5	Pass
		-20	3.7	-0.553	-0.0007	-2.5 to 2.5	Pass
		-10	3.7	-0.518	-0.0006	-2.5 to 2.5	Pass
		0	3.7	-0.479	-0.0006	-2.5 to 2.5	Pass
		10	3.7	-0.788	-0.0009	-2.5 to 2.5	Pass
30		3.7	-0.216	-0.0003	-2.5 to 2.5	Pass	
40		3.7	-0.286	-0.0003	-2.5 to 2.5	Pass	
50	3.7	-0.569	-0.0007	-2.5 to 2.5	Pass		



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3. 99% & 26dB Bandwidth

3.1 Band V_OBW

3.1.1 Test Result

Table with 6 columns: ENV, Mode (Network, Subset), Frequency (MHz), 99% Occupied Bandwidth (MHz) (Result, Limit), and Verdict. Data rows show NTNV with RMC mode and 12.2kbps RMC subset, with frequencies 826.4, 836.6, and 846.6 MHz, all resulting in 'Pass' verdicts.



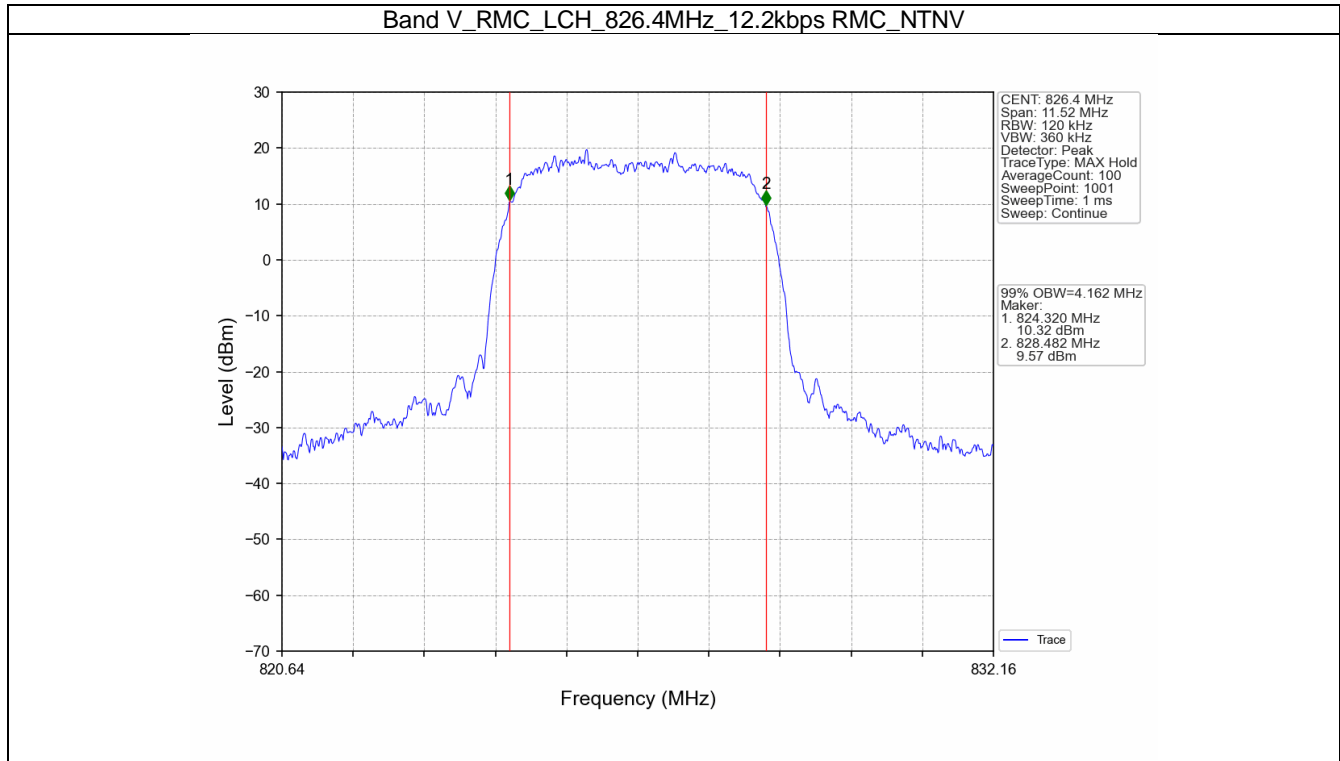
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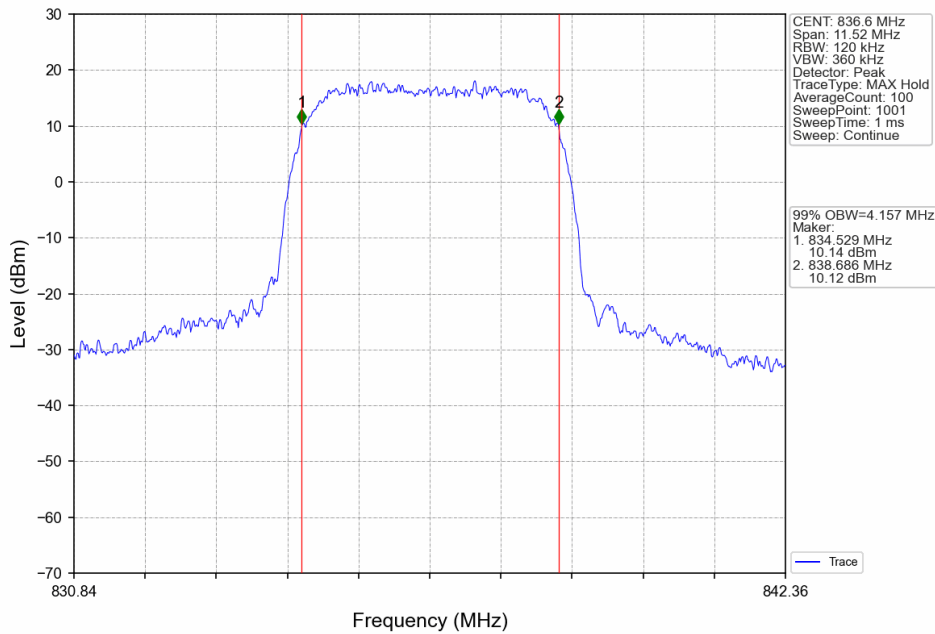
3.1.2 Test Graph



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Band V_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



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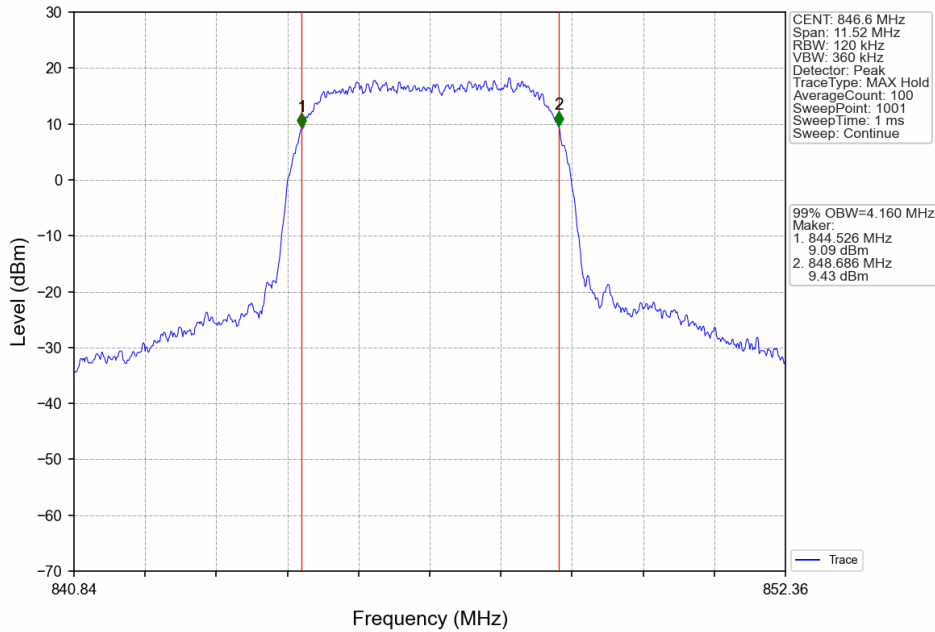
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Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



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3.2 Band V_XDB

3.2.1 Test Result

Table with 6 columns: ENV, Mode (Network, Subset), Frequency (MHz), 26dB Bandwidth (MHz) (Result, Limit), and Verdict. It shows test results for NTNV in RMC mode at 12.2kbps RMC across three frequencies: 826.4, 836.6, and 846.6 MHz, all resulting in a 'Pass' verdict.

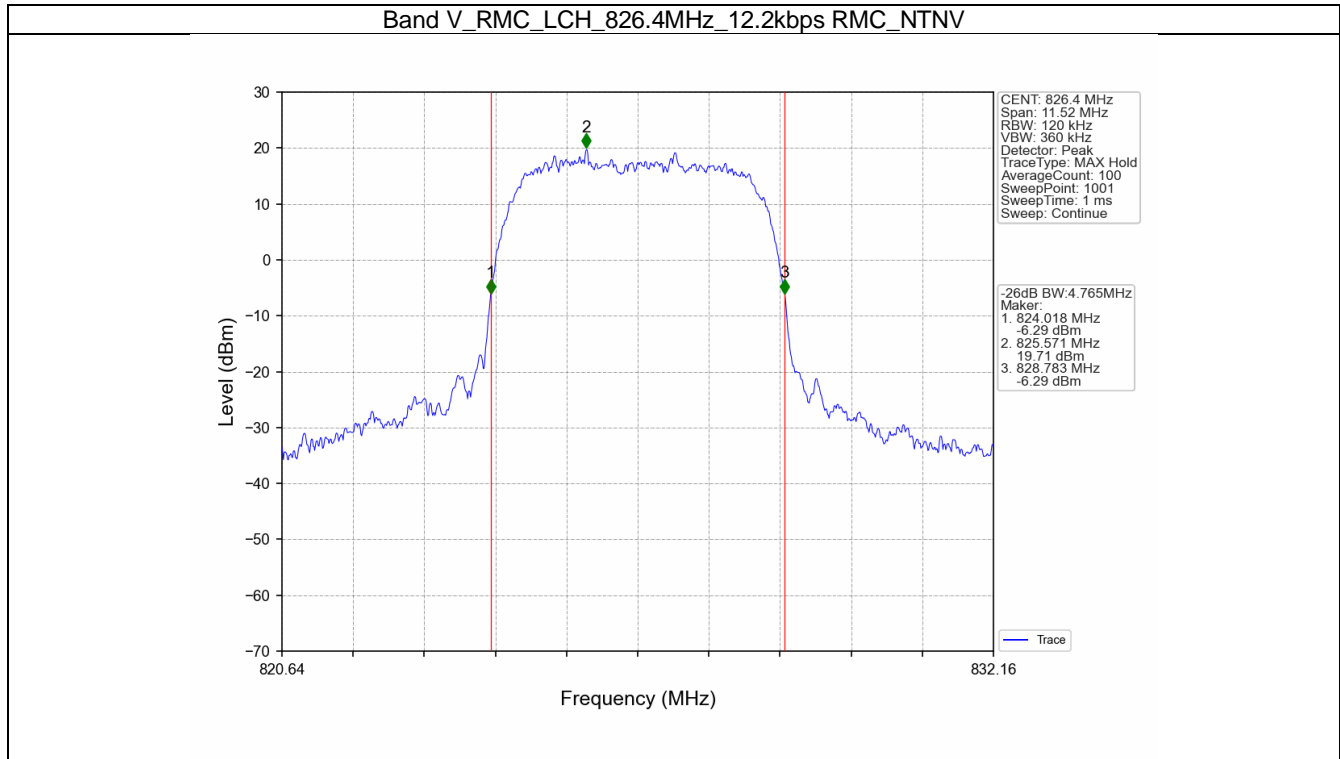


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3.2.2 Test Graph



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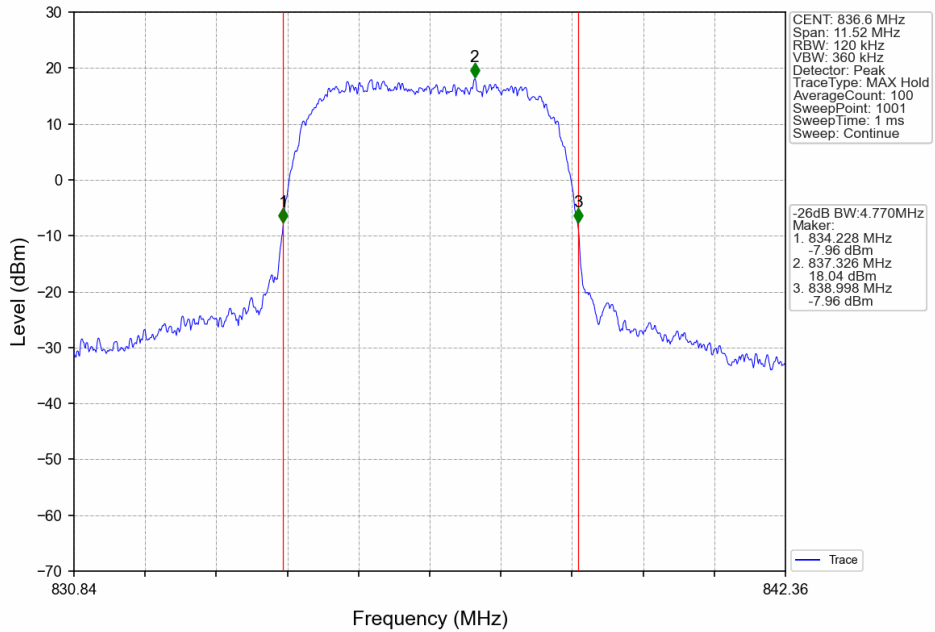
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Band V_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



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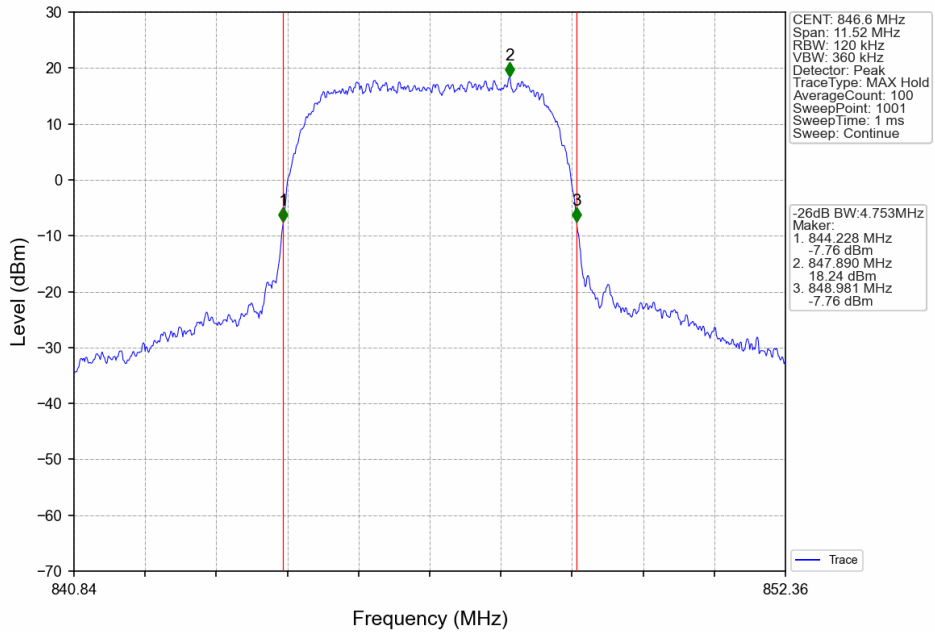
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Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



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4. Peak-Average Ratio

4.1 Band V

4.1.1 Test Result

ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	2.82	<=13	Pass
			836.6	2.85	<=13	Pass
			846.6	2.83	<=13	Pass



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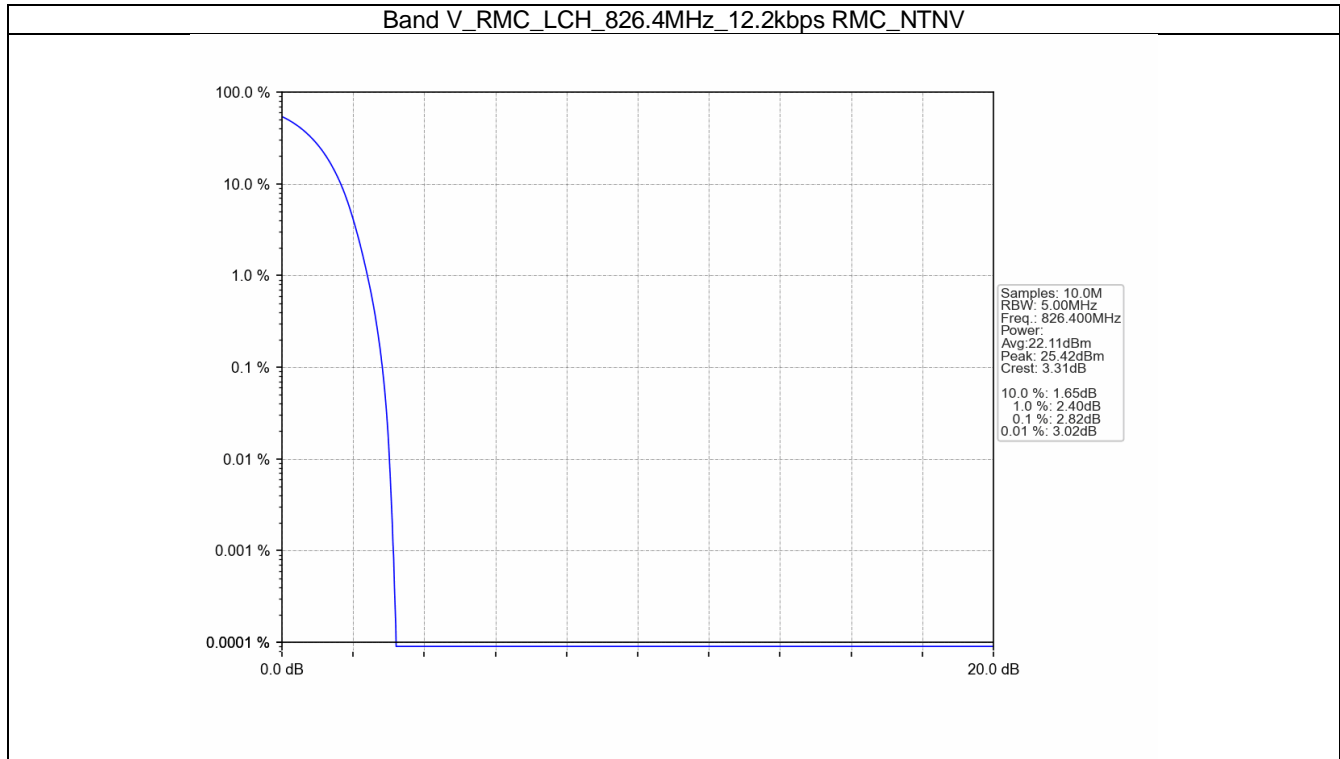
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4.1.2 Test Graph



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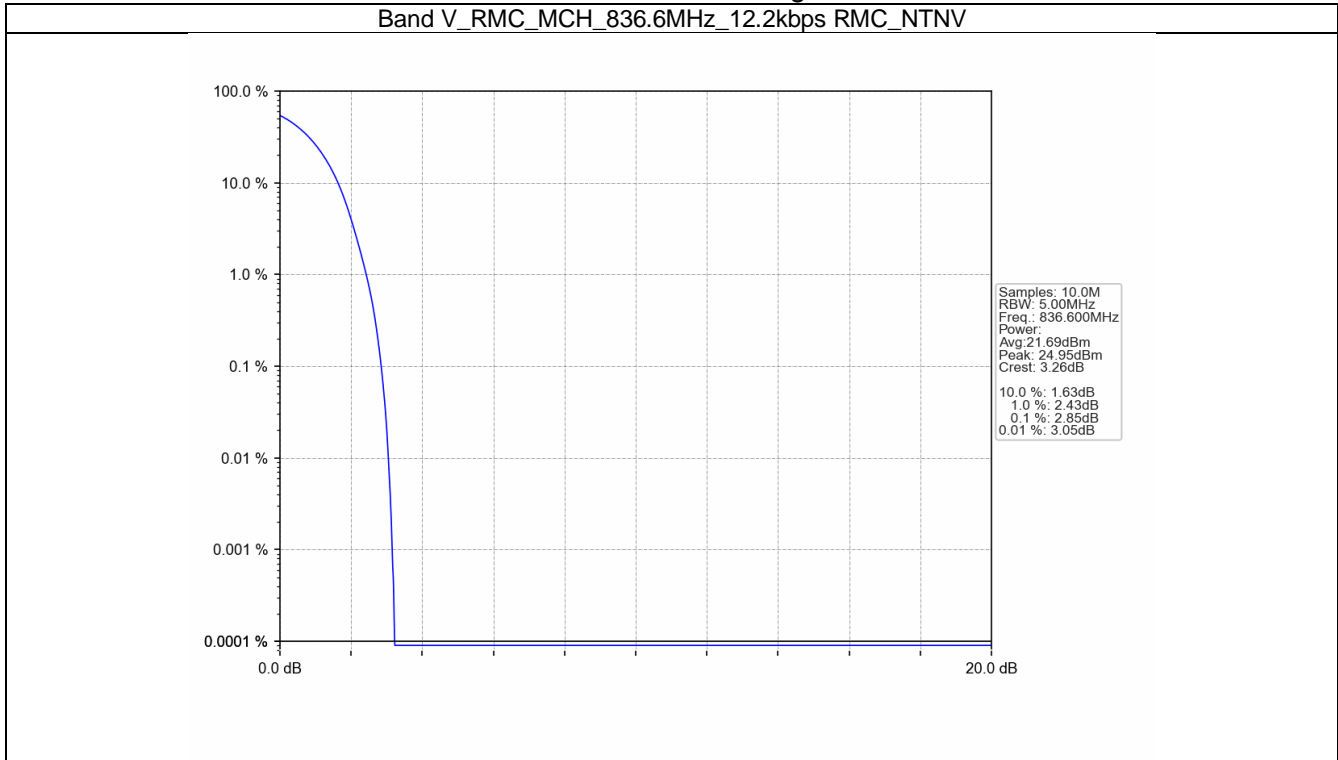
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Rev.: 01

Page: 14 of 25

Band V_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



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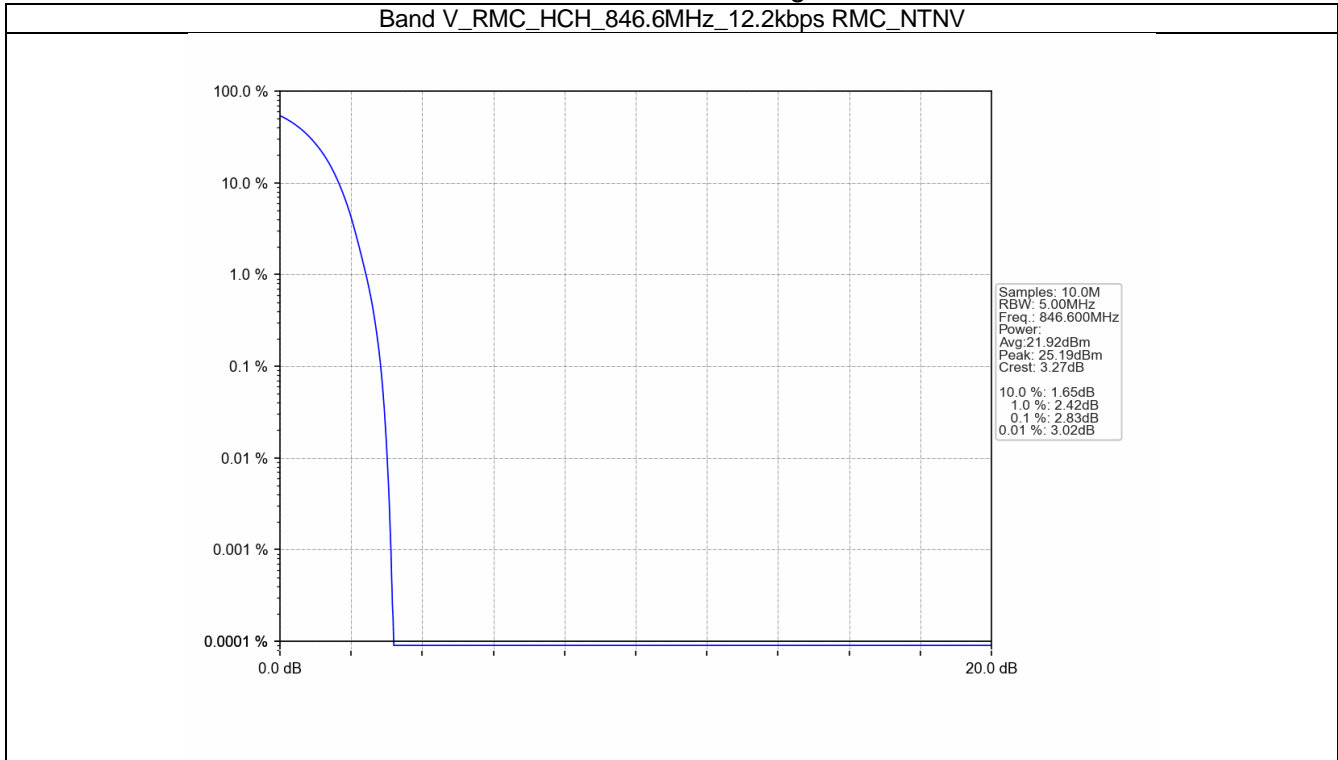
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Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



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5. Spurious Emission & Band Edge

5.1 Band V

5.1.1 Test Result

Band V						
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



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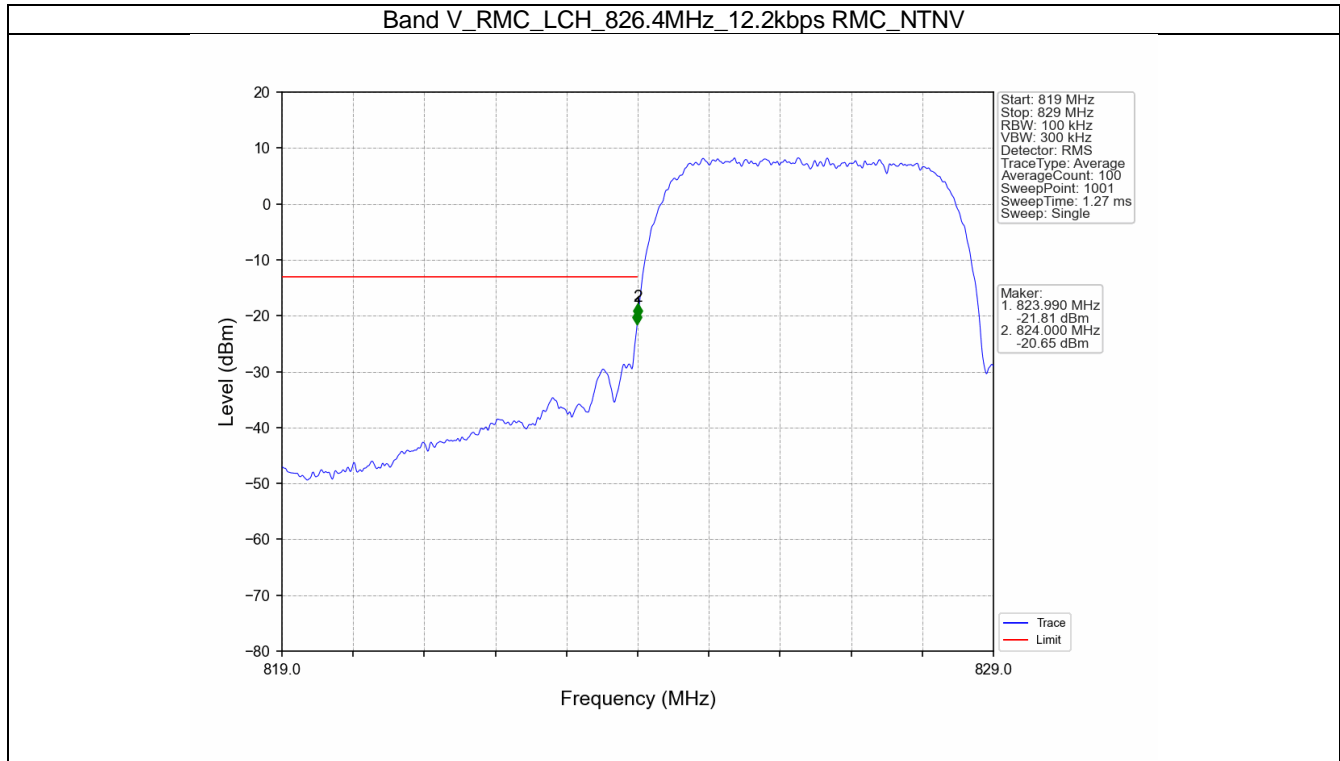
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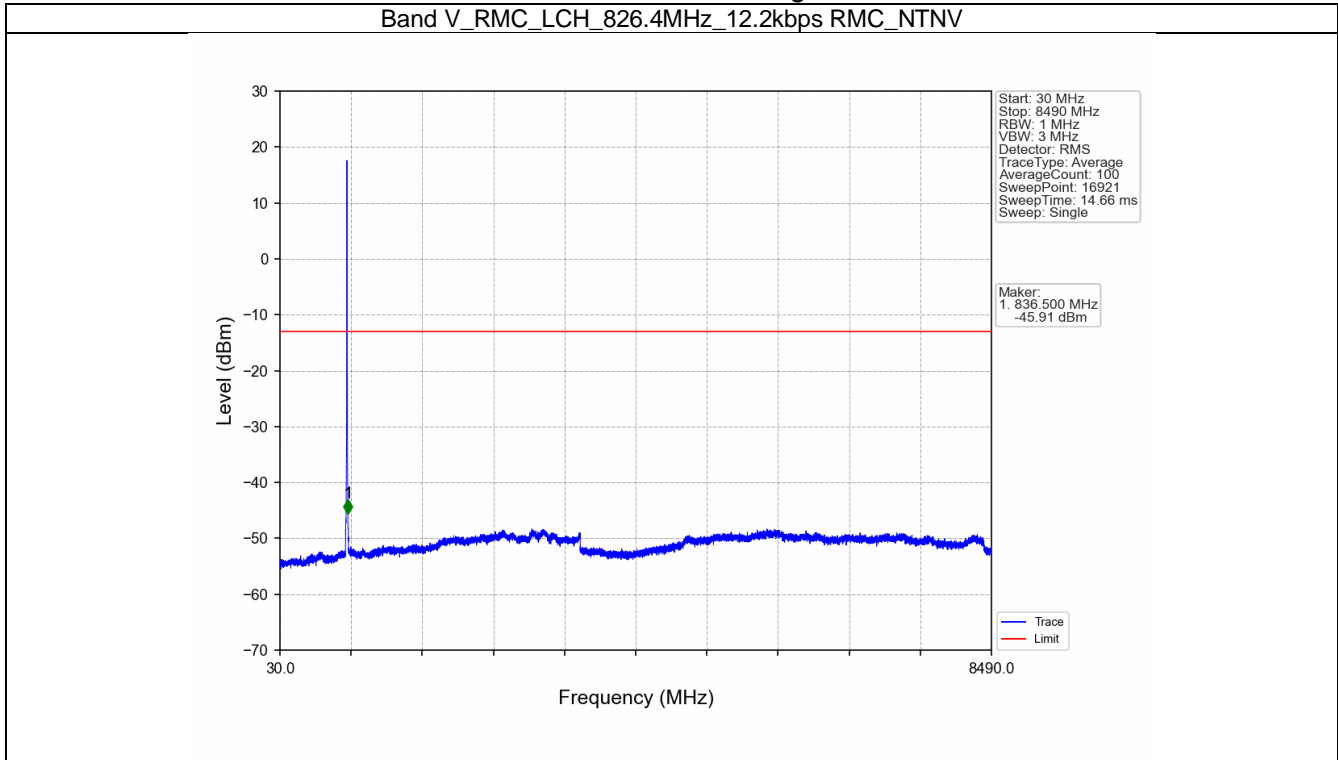
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Band V_RMC_LCH_826.4MHz_12.2kbps RMC_NTNV



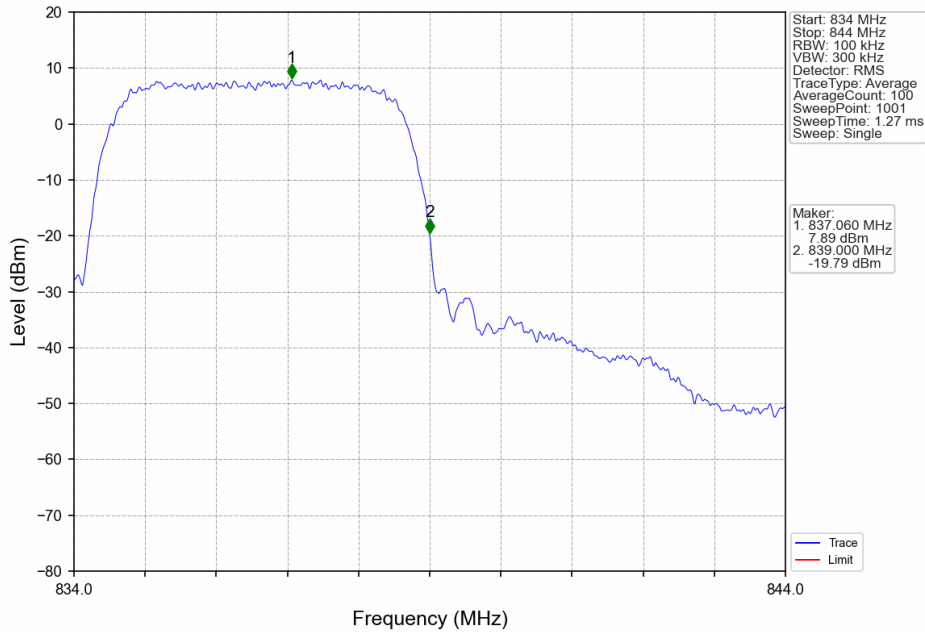
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Band V_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



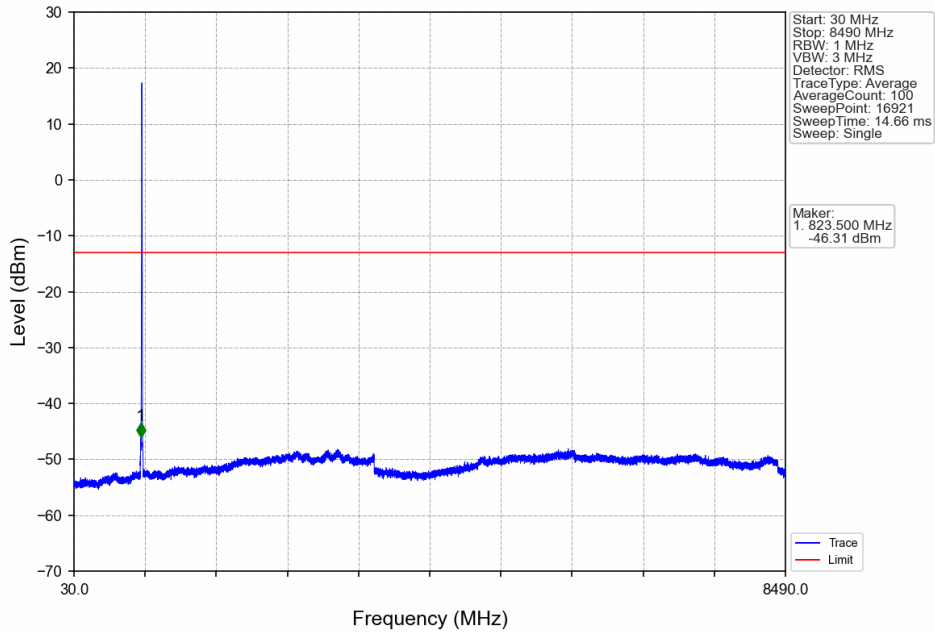
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Band V_RMC_MCH_836.6MHz_12.2kpbs RMC_NTNV



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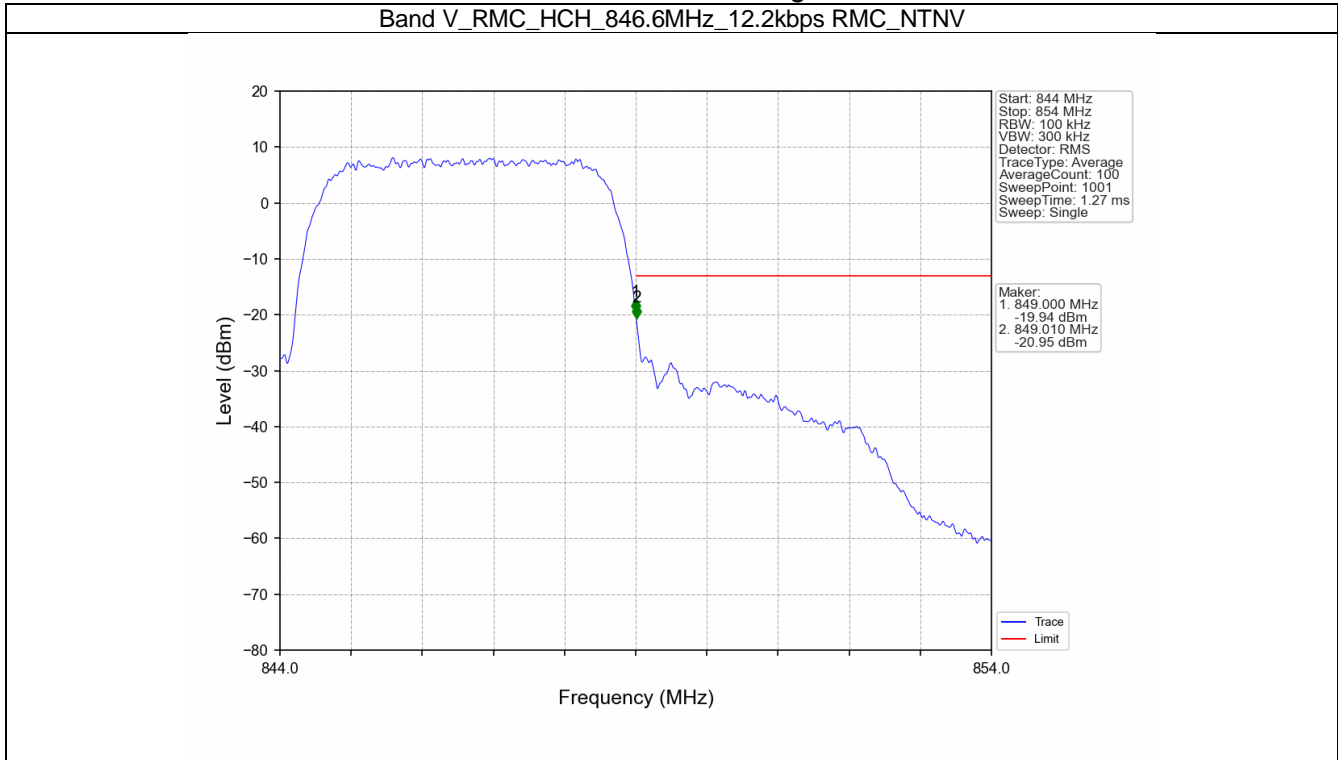
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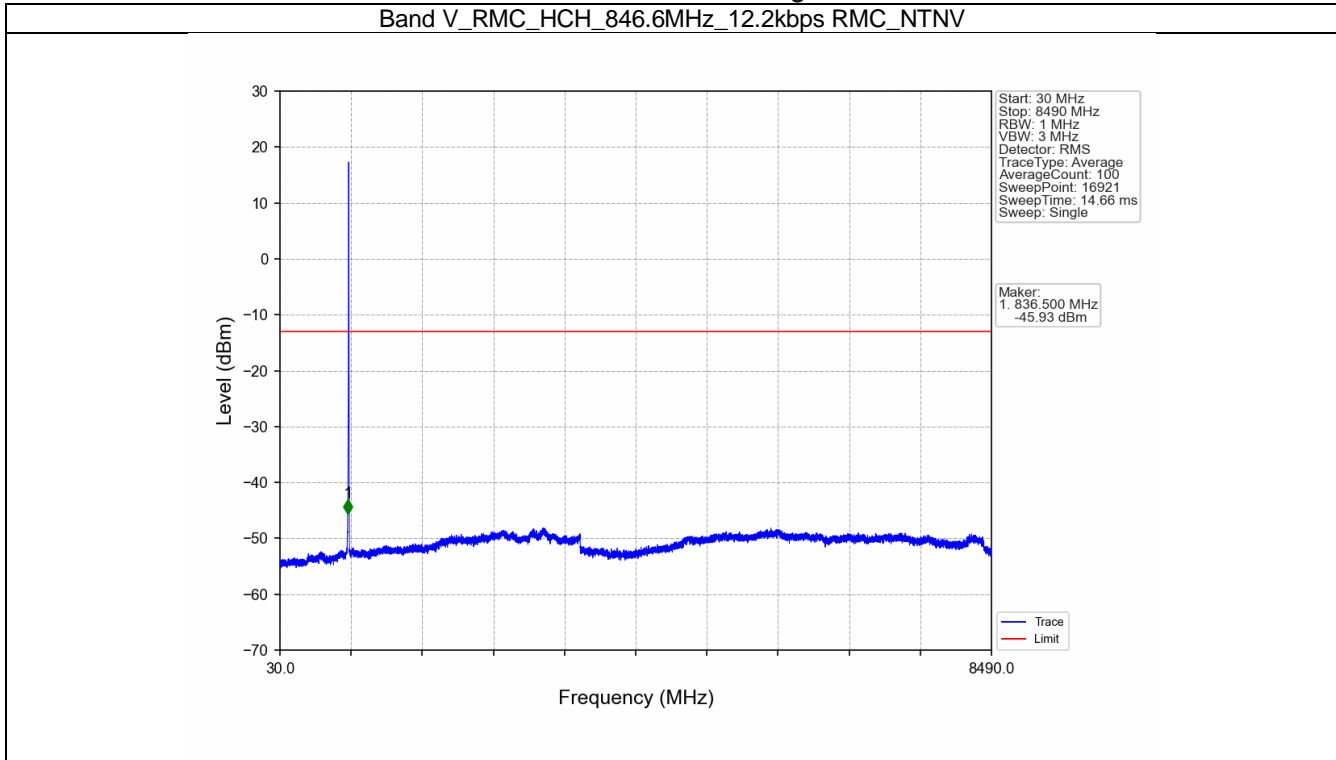
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6. Field Strength of Spurious Radiation

Test Band = WCDMA Band V_ TM1

Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1652.8	40.58	-46.65	24.60	-76.73	-13.00	63.73	Horizontal
2	2479.2	37.78	-45.02	27.36	-75.14	-13.00	62.14	Horizontal
3	3305.6	35.88	-43.57	29.56	-73.38	-13.00	60.38	Horizontal
4	4132	35.62	-42.37	31.51	-70.50	-13.00	57.50	Horizontal
5	4958.4	34.57	-41.35	33.11	-68.93	-13.00	55.93	Horizontal
6	5784.8	33.60	-40.24	34.07	-67.83	-13.00	54.83	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1652.8	39.98	-46.65	24.60	-77.33	-13.00	64.33	Vertical
2	2479.2	36.53	-45.02	27.36	-76.39	-13.00	63.39	Vertical
3	3305.6	35.68	-43.57	29.56	-73.58	-13.00	60.58	Vertical
4	4132	34.78	-42.37	31.51	-71.34	-13.00	58.34	Vertical
5	4958.4	34.25	-41.35	33.11	-69.25	-13.00	56.25	Vertical
6	5784.8	33.32	-40.24	34.07	-68.11	-13.00	55.11	Vertical



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Test Band = WCDMA Band V_ TM1
Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.8	40.46	-46.60	24.60	-76.80	-13.00	63.80	Horizontal
2	2509.2	36.97	-44.95	27.44	-75.80	-13.00	62.80	Horizontal
3	3345.6	35.72	-43.54	29.57	-73.51	-13.00	60.51	Horizontal
4	4182	34.66	-42.36	31.59	-71.37	-13.00	58.37	Horizontal
5	5018.4	34.99	-41.26	33.20	-68.34	-13.00	55.34	Horizontal
6	5854.8	33.51	-40.13	34.31	-67.57	-13.00	54.57	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.8	39.93	-46.60	24.60	-77.33	-13.00	64.33	Vertical
2	2509.2	36.46	-44.95	27.44	-76.31	-13.00	63.31	Vertical
3	3345.6	35.46	-43.54	29.57	-73.77	-13.00	60.77	Vertical
4	4182	34.33	-42.36	31.59	-71.70	-13.00	58.70	Vertical
5	5018.4	34.41	-41.26	33.20	-68.92	-13.00	55.92	Vertical
6	5854.8	32.65	-40.13	34.31	-68.43	-13.00	55.43	Vertical



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Test Band = WCDMA Band V_ TM1
 Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1693.2	40.19	-46.55	24.60	-77.02	-13.00	64.02	Horizontal
2	2539.8	37.44	-44.95	27.57	-75.21	-13.00	62.21	Horizontal
3	3386.4	35.56	-43.51	29.58	-73.63	-13.00	60.63	Horizontal
4	4233	35.29	-42.32	31.67	-70.62	-13.00	57.62	Horizontal
5	5079.6	35.10	-41.28	33.18	-68.25	-13.00	55.25	Horizontal
6	5926.2	32.91	-40.10	34.55	-67.90	-13.00	54.90	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1693.2	39.59	-46.55	24.60	-77.62	-13.00	64.62	Vertical
2	2539.8	37.04	-44.95	27.57	-75.61	-13.00	62.61	Vertical
3	3386.4	35.26	-43.51	29.58	-73.93	-13.00	60.93	Vertical
4	4233	33.46	-42.32	31.67	-72.45	-13.00	59.45	Vertical
5	5079.6	33.75	-41.28	33.18	-69.60	-13.00	56.60	Vertical
6	5926.2	32.48	-40.10	34.55	-68.33	-13.00	55.33	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---



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