



Report No.: SUCR240500014801
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Appendix B.3

WCDMA Band V



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1. Effective (Isotropic) Radiated Power Output Data

For report SUCR240400011301:

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 for NTNV RMC 12.2kbps RMC at 826.4, 836.6, 846.6 MHz.

For report SUCR240500014801:

1.2 Band V _ERP(NPANT002)

1.2.1 Test Result

Table with columns: ENV, Mode (Network, Subset), Frequency (MHz), Conducted Power (dBm), Gain (dBi), ERP (dBm) (Result, Limit), Verdict. Data for NTNV RMC 12.2kbps RMC at 826.4, 836.6, 846.6 MHz.



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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

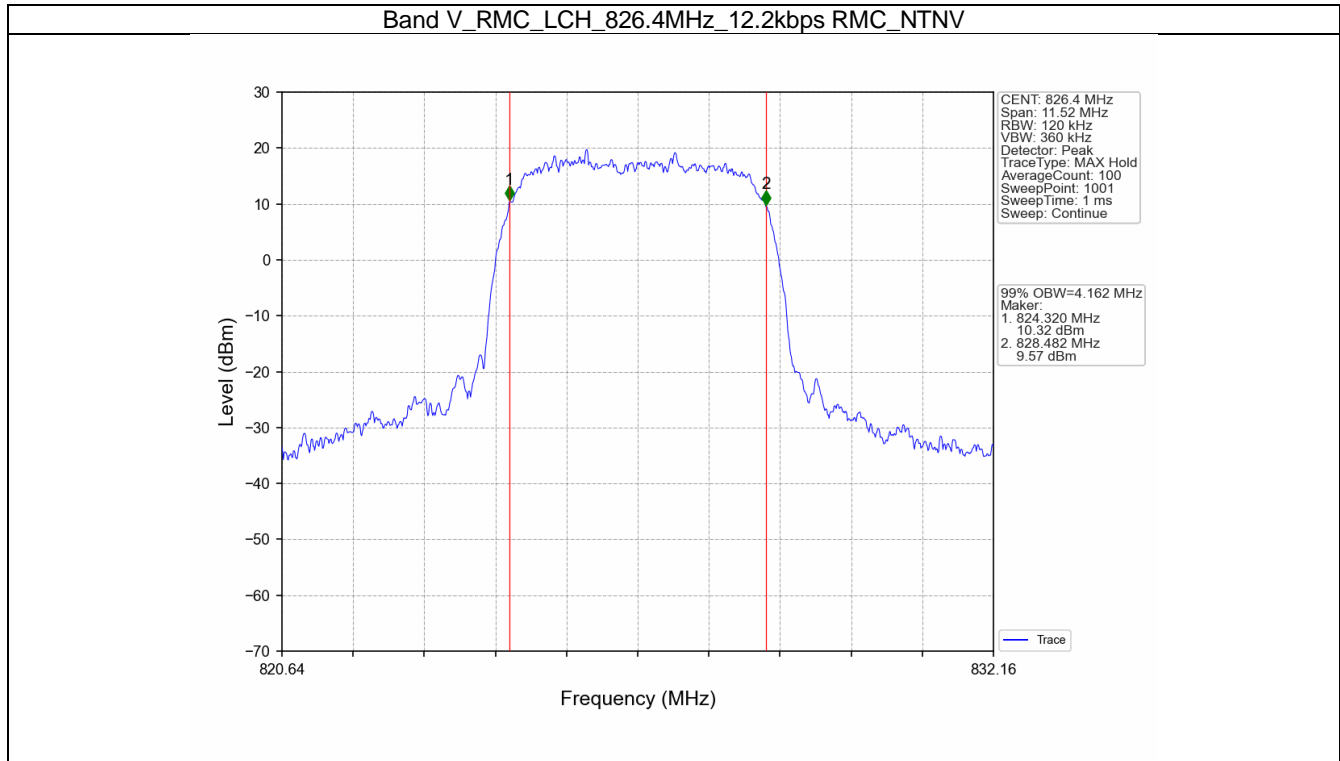
Table with 6 columns: ENV, Mode (Network, Subset), Frequency (MHz), 99% Occupied Bandwidth (MHz) (Result, Limit), and Verdict. Data rows show NTNV with RMC mode and 12.2kbps RMC subset, with frequencies 826.4, 836.6, and 846.6 MHz, all resulting in 'Pass' verdicts.



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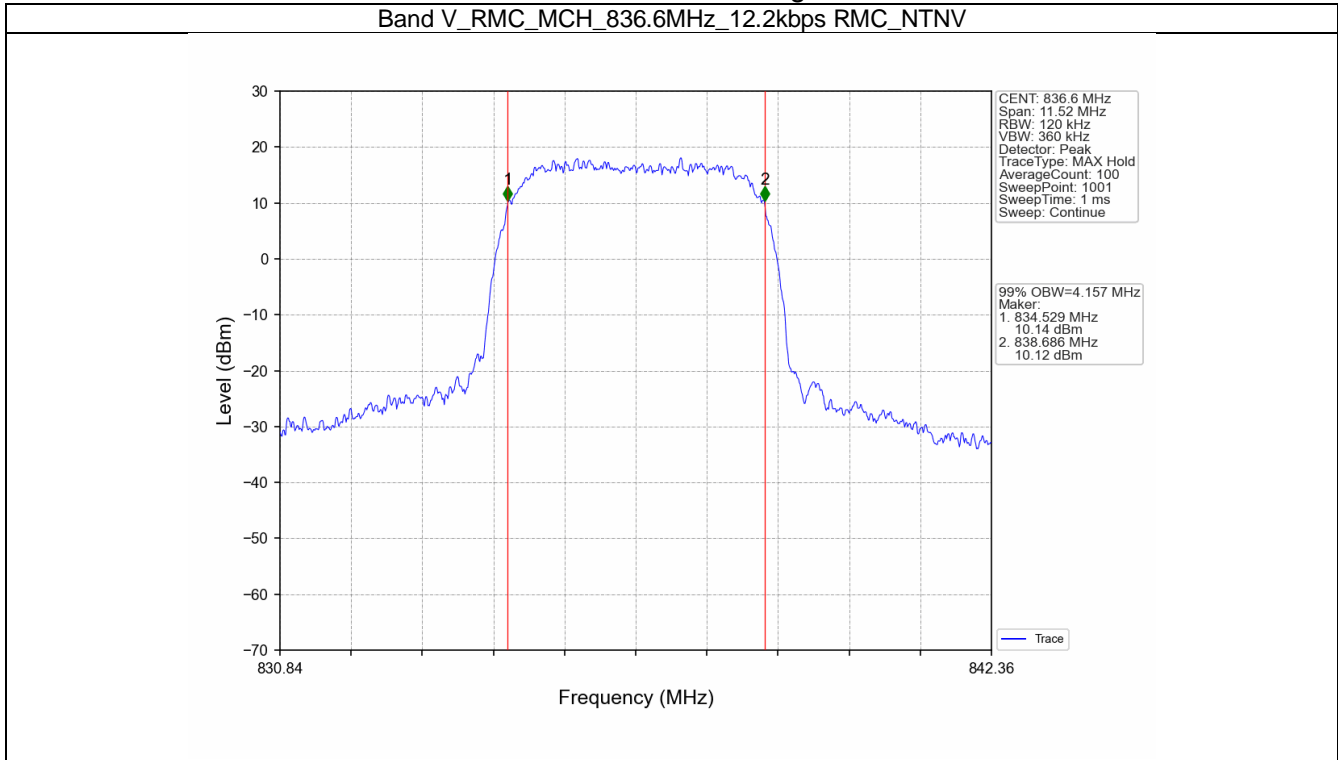
3.1.2 Test Graph



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Band V_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



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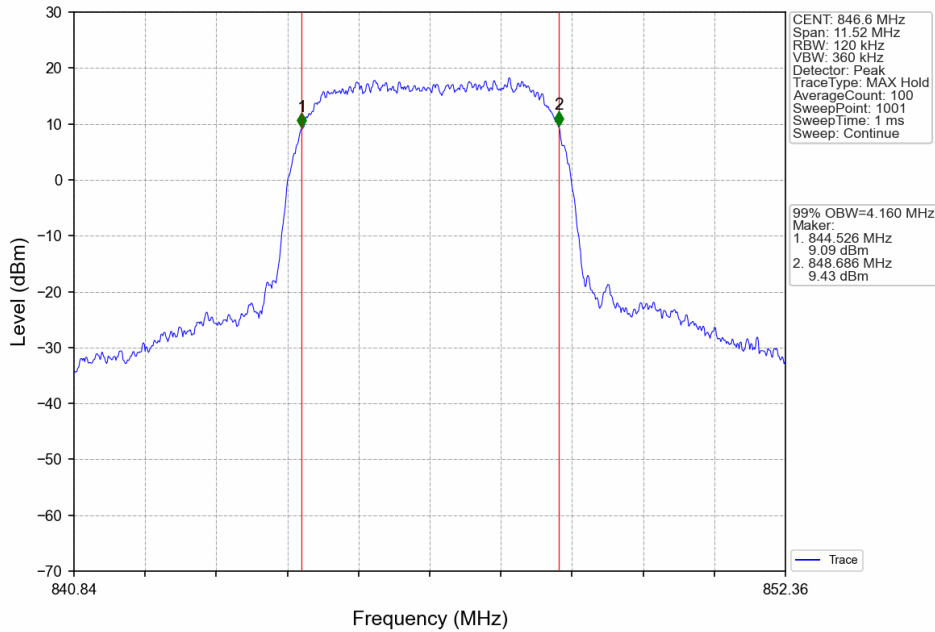
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Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



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3.2 Band V_XDB

3.2.1 Test Result

Band V						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	4.765	/	Pass
			836.6	4.770	/	Pass
			846.6	4.753	/	Pass



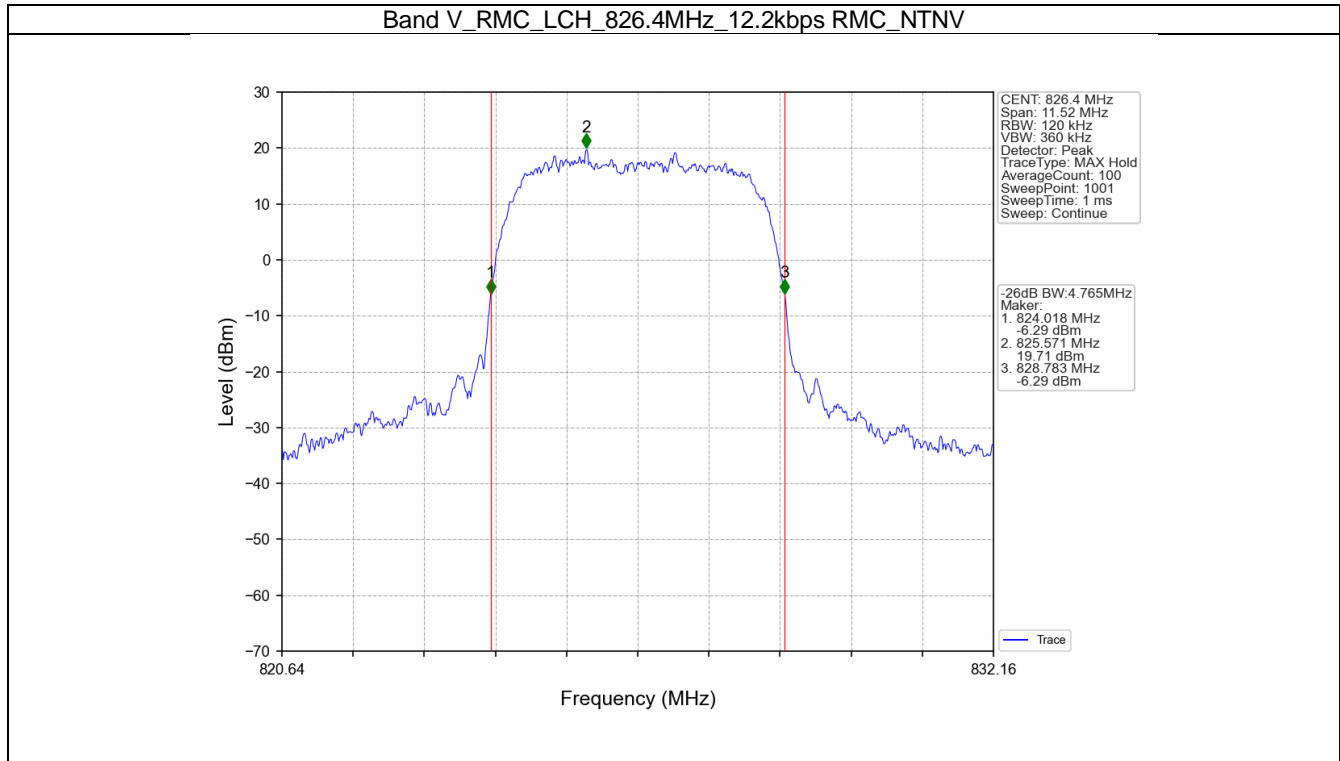
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3.2.2 Test Graph



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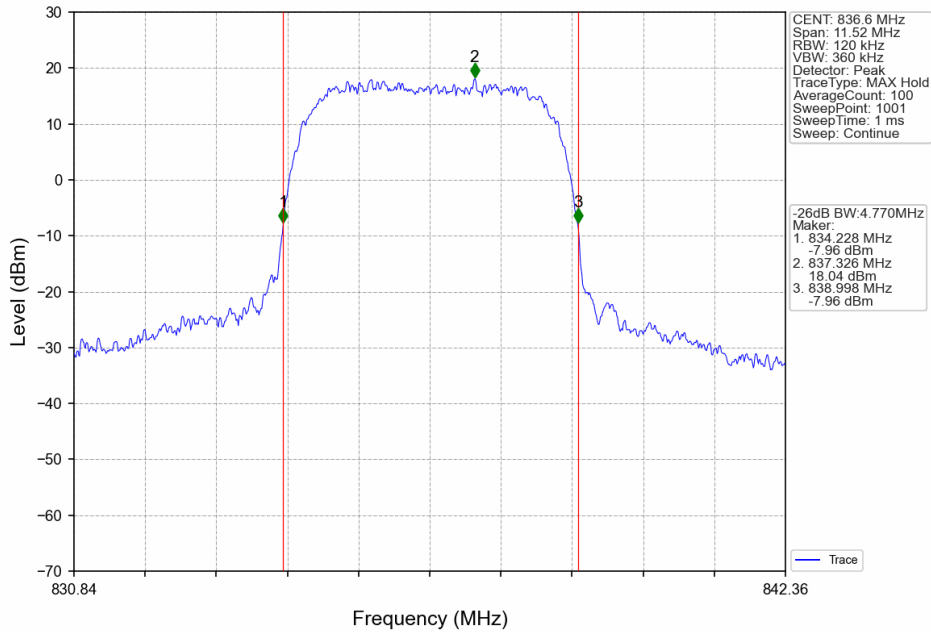
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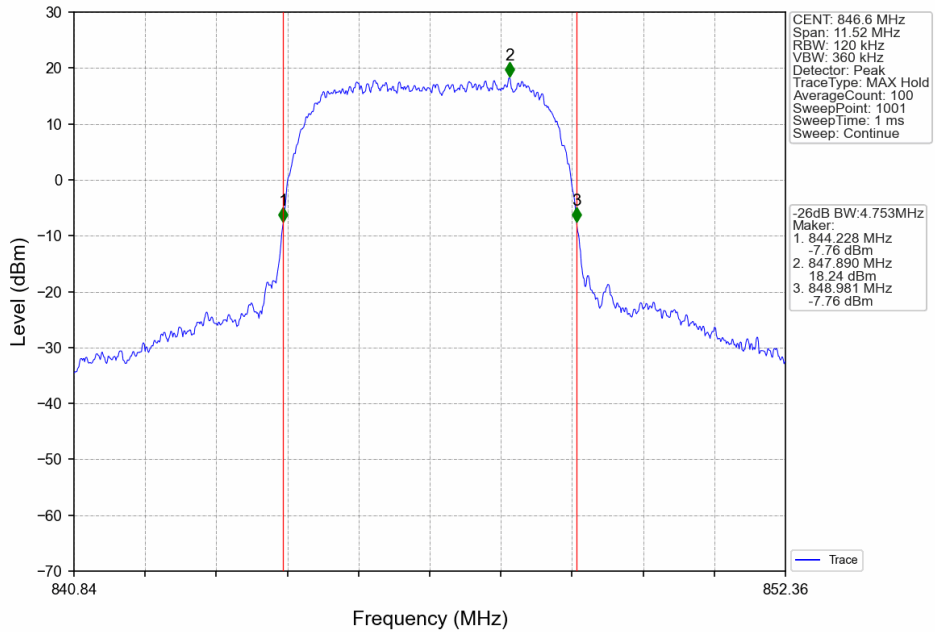
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Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



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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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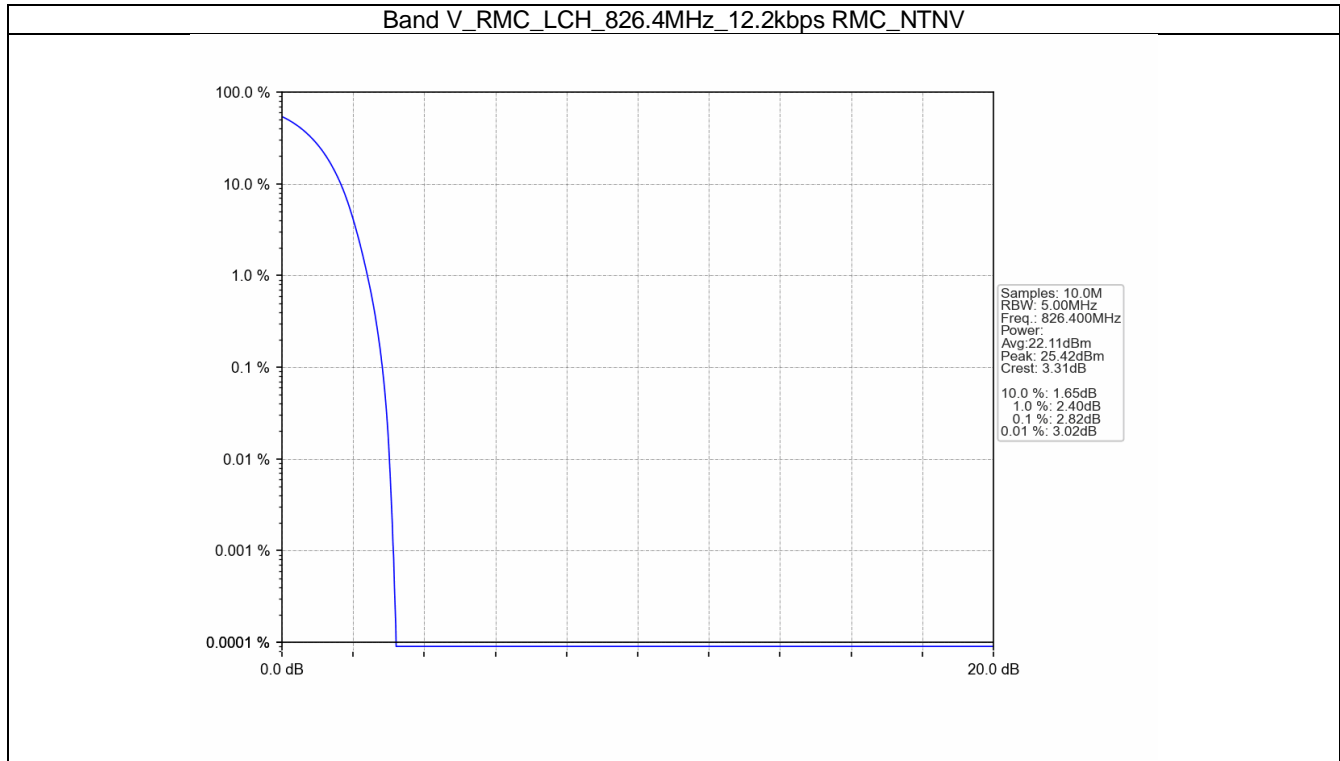
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4.1.2 Test Graph



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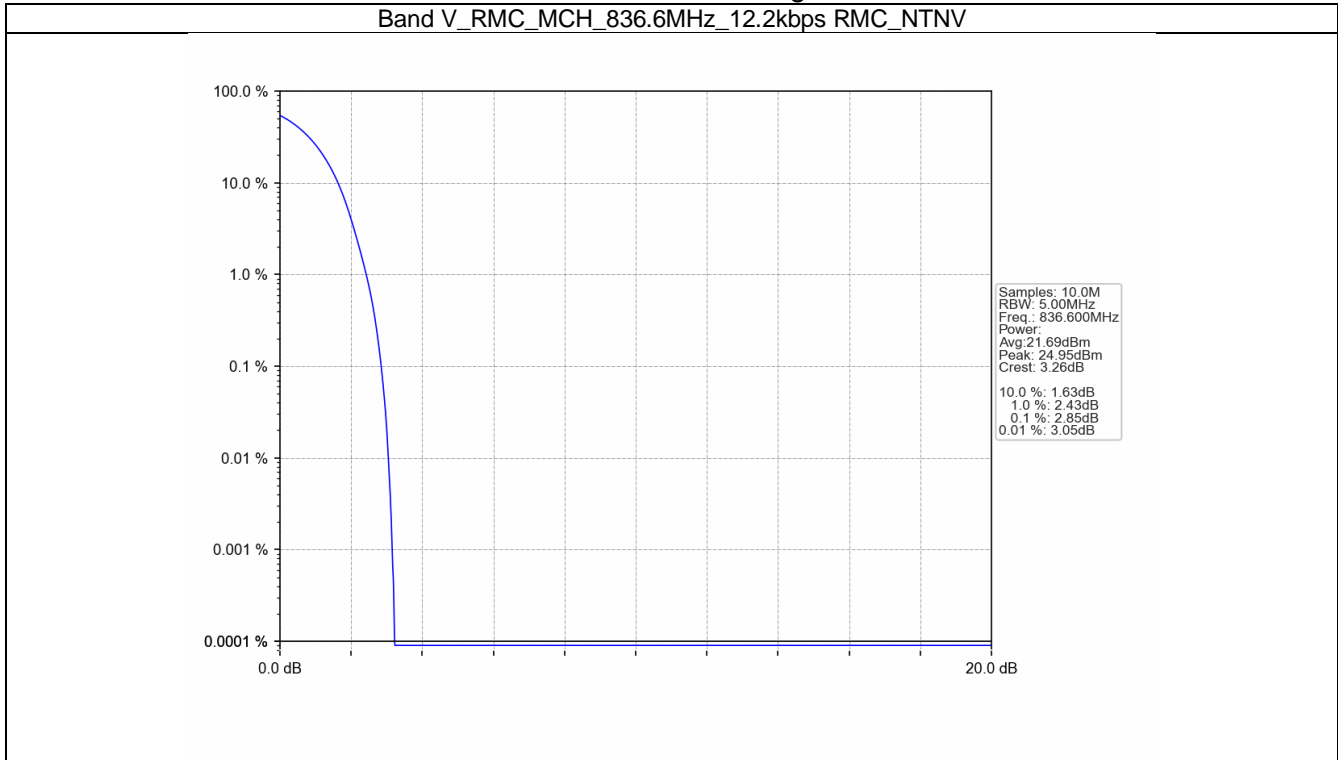
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Rev.: 01

Page: 14 of 25

Band V_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



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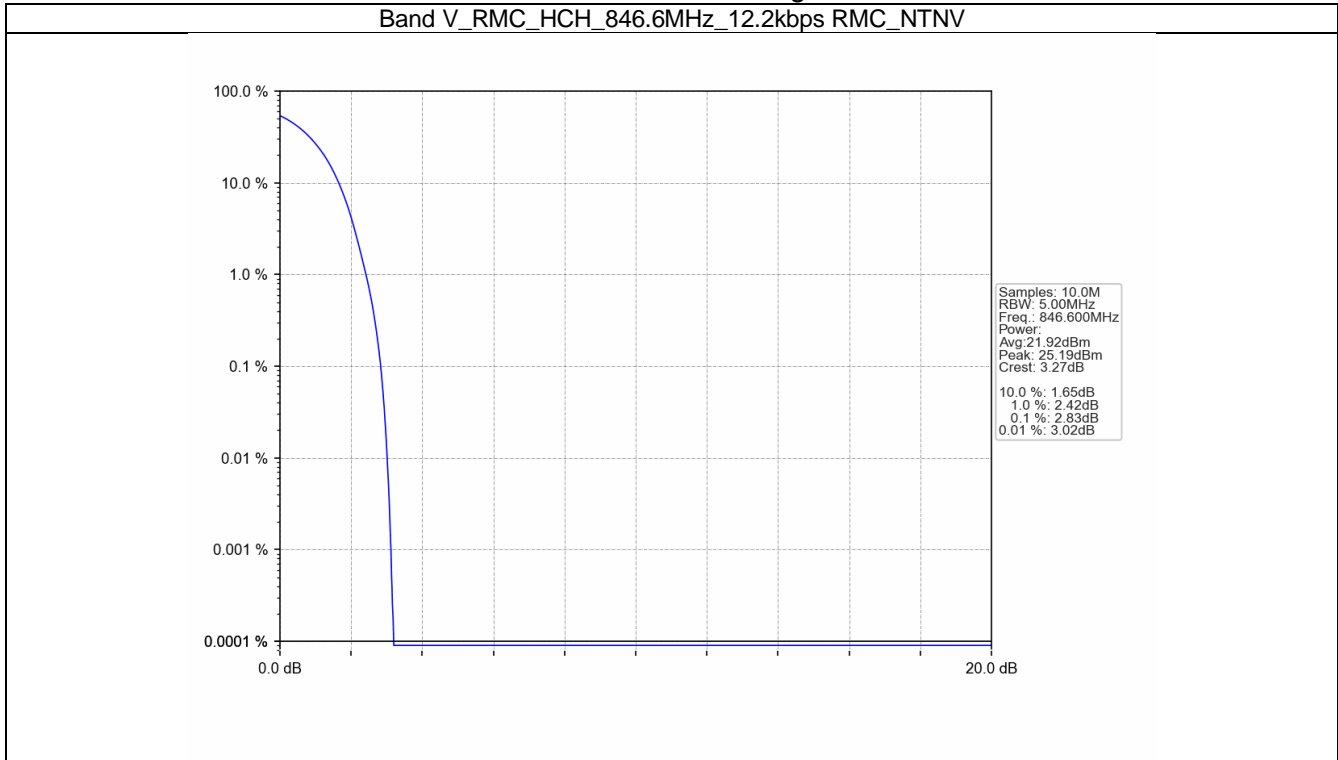
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Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



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Report No.: SUCR240500014801
Rev.: 01
Page: 16 of 25

5. Spurious Emission & Band Edge

5.1 Band V

5.1.1 Test Result

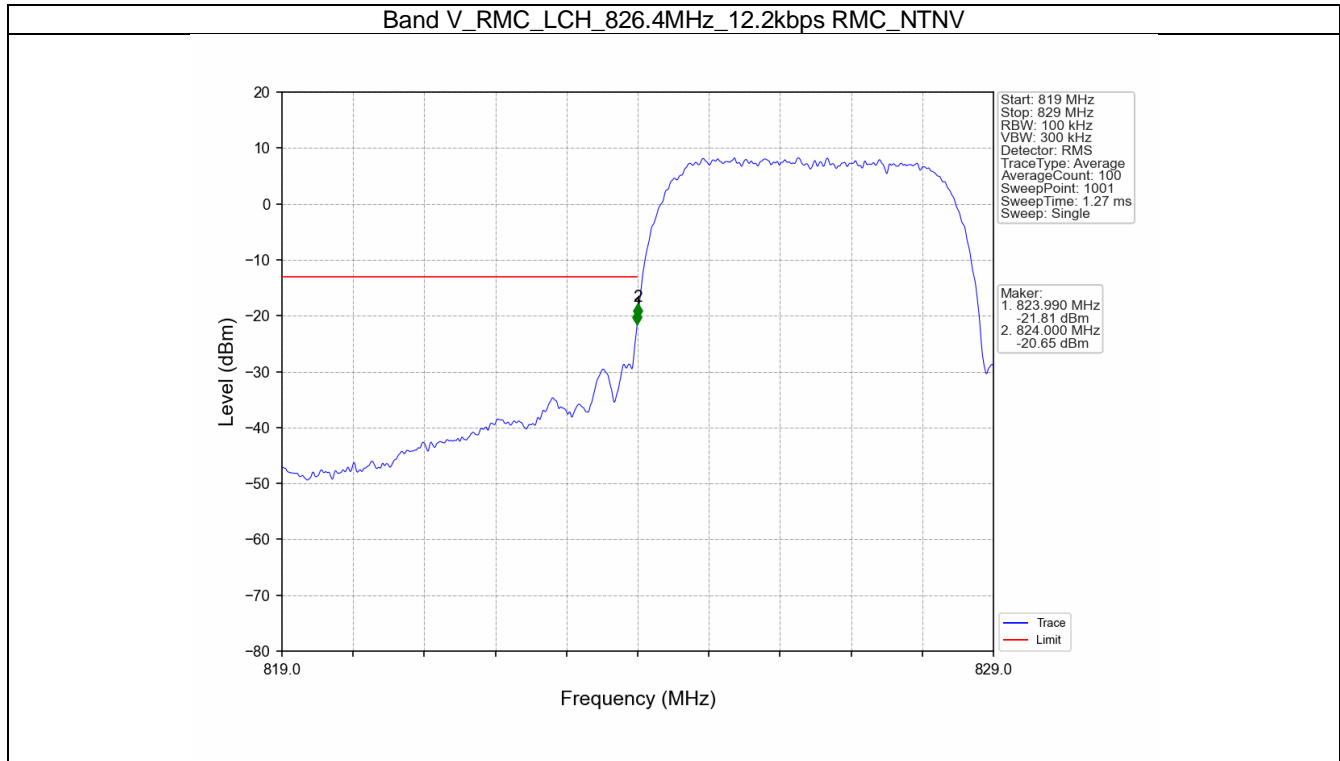
Table with 5 columns: ENV, Mode (Network, Subset), Frequency (MHz), Spurious Emission (Result, Limit), and Verdict. It lists test results for NTNV at 826.4, 836.6, and 846.6 MHz, all resulting in 'Pass'.



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5.1.2 Test Graph



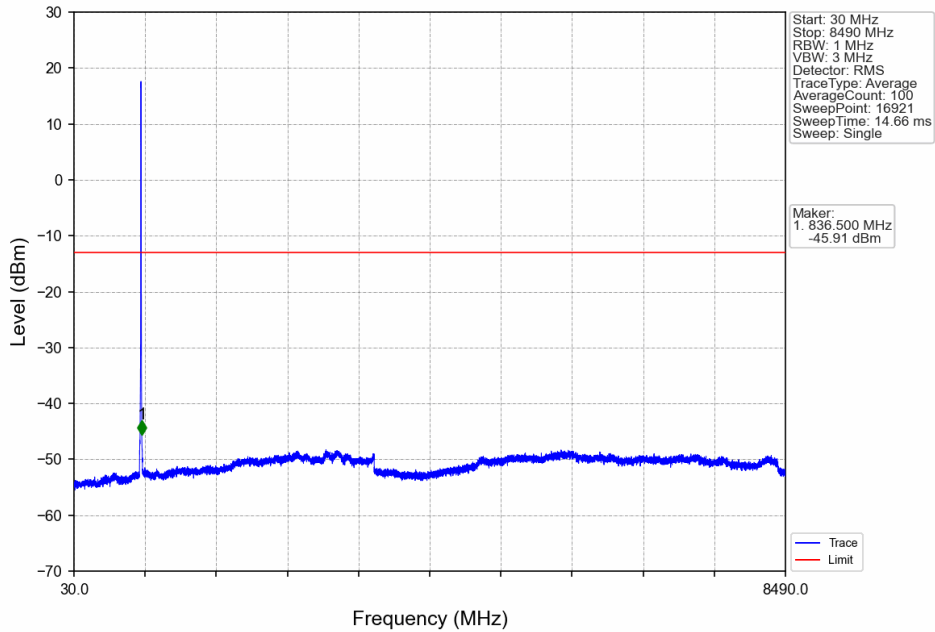
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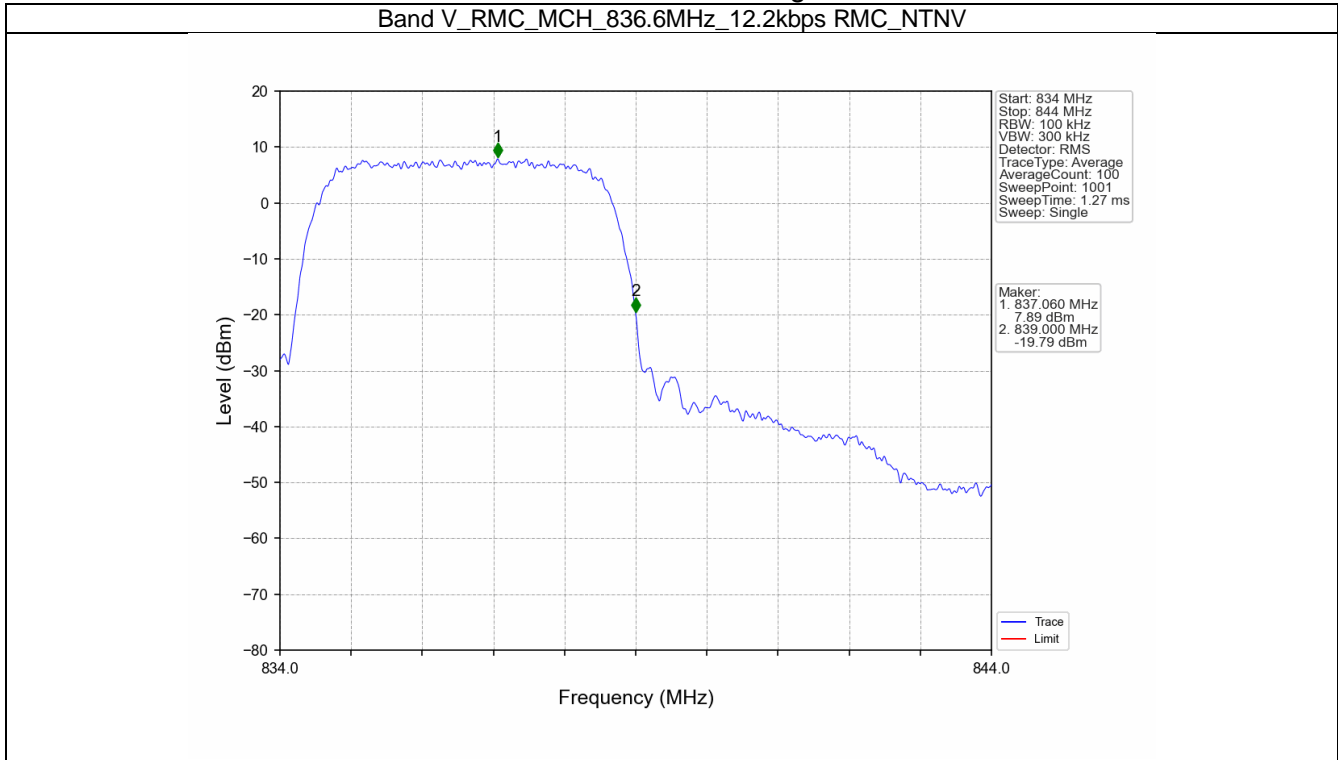
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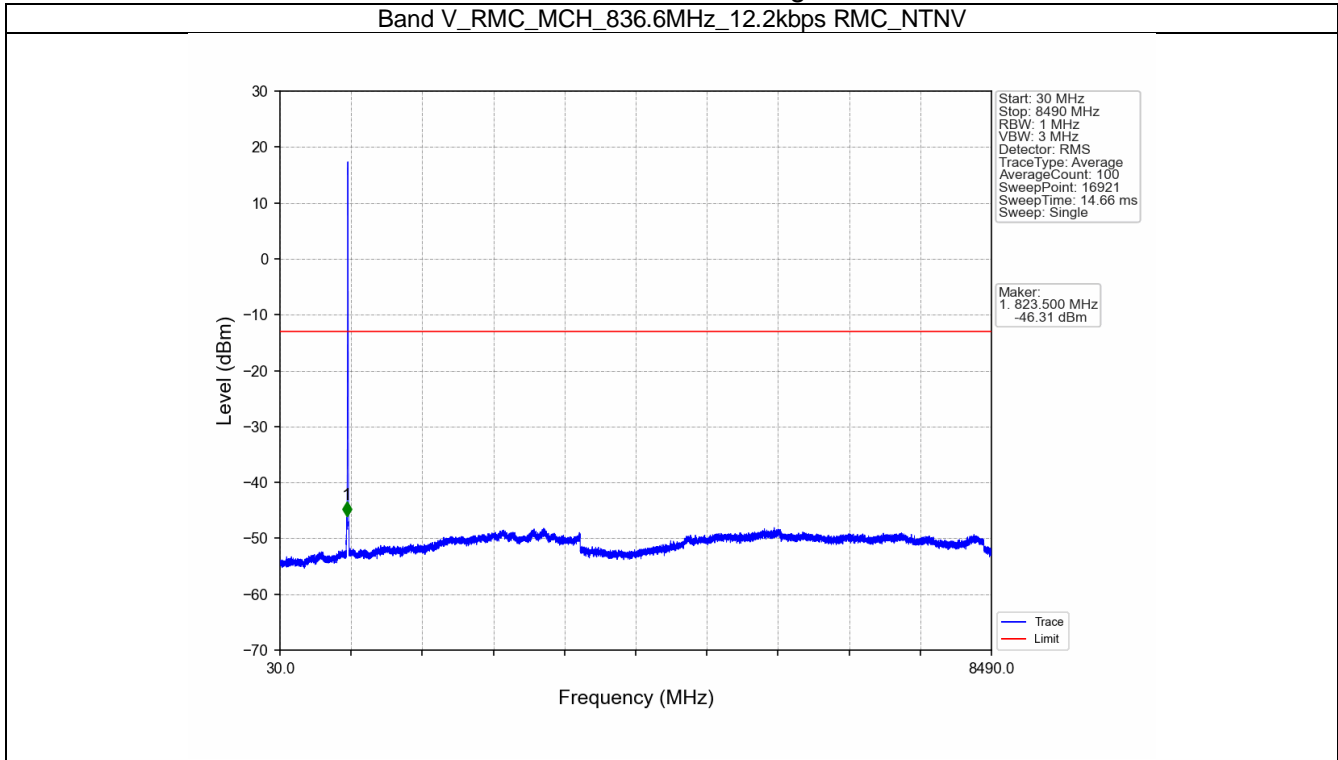
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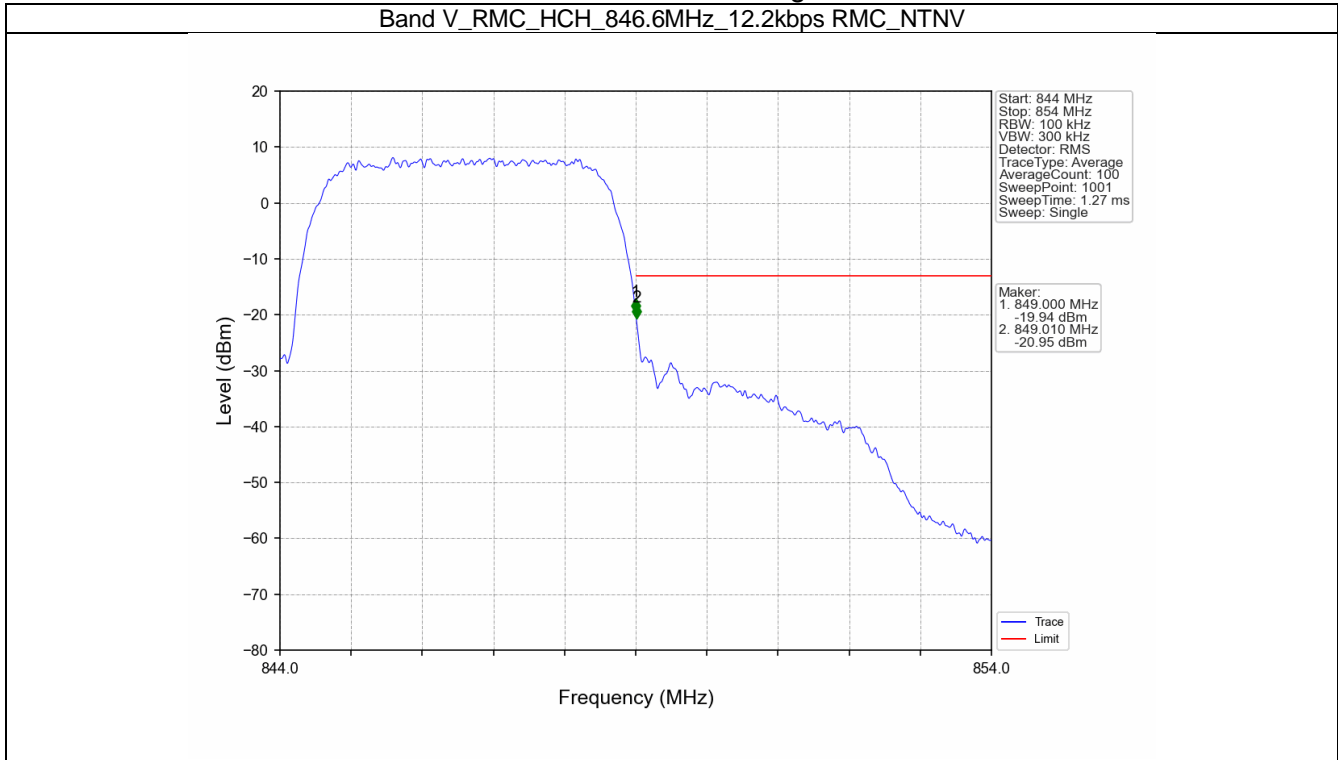
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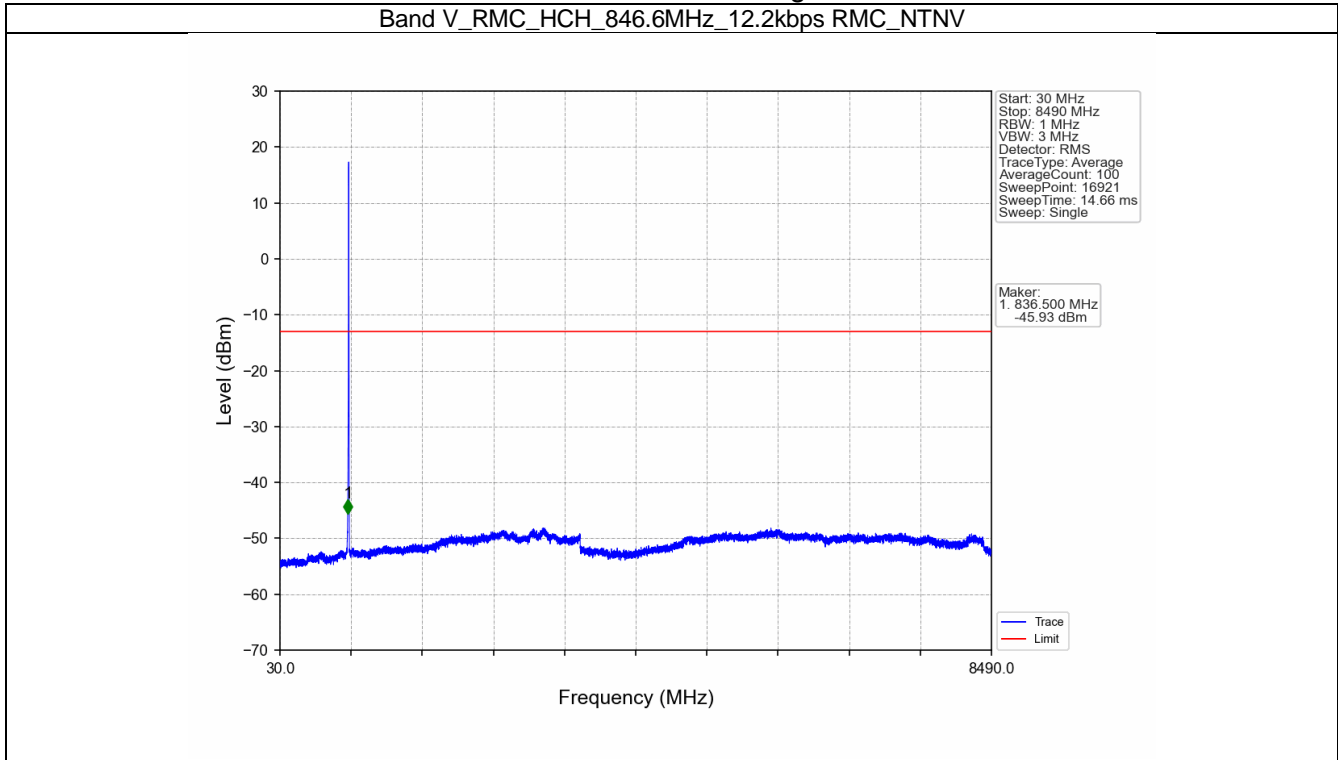
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6. Field Strength of Spurious Radiation

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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Report No.: SUCR240500014801
 Rev.: 01
 Page: 24 of 25

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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