



Report No.: SEWM2311000466RG01

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Appendix B.4

WCDMA Band V



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1. Effective (Isotropic) Radiated Power Output Data

1.1 Band V_ERPAnt0

1.1.1 Test Result

Band V								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	23.37	-3.00	18.22	<=38.45	Pass
			836.6	23.15	-3.00	18.00	<=38.45	Pass
			846.6	23.67	-3.00	18.52	<=38.45	Pass

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	3.4	0.166	0.0002	-2.5 to 2.5	Pass	
			3.8	-0.047	-0.0001	-2.5 to 2.5	Pass	
			4.4	-0.127	-0.0002	-2.5 to 2.5	Pass	
		-30	3.8	-1.029	-0.0012	-2.5 to 2.5	Pass	
			-20	3.8	-0.021	0.0000	-2.5 to 2.5	Pass
				3.8	-0.818	-0.0010	-2.5 to 2.5	Pass
		0	3.8	0.059	0.0001	-2.5 to 2.5	Pass	
			10	3.8	0.321	0.0004	-2.5 to 2.5	Pass
			30	3.8	-0.995	-0.0012	-2.5 to 2.5	Pass
			40	3.8	0.240	0.0003	-2.5 to 2.5	Pass
	50		3.8	-0.794	-0.0010	-2.5 to 2.5	Pass	
	836.6		20	3.4	-0.297	-0.0004	-2.5 to 2.5	Pass
				3.8	0.078	0.0001	-2.5 to 2.5	Pass
		4.4		-0.635	-0.0008	-2.5 to 2.5	Pass	
		-30	3.8	0.049	0.0001	-2.5 to 2.5	Pass	
			-20	3.8	-0.934	-0.0011	-2.5 to 2.5	Pass
				3.8	0.037	0.0000	-2.5 to 2.5	Pass
		0	3.8	-0.513	-0.0006	-2.5 to 2.5	Pass	
			10	3.8	0.467	0.0006	-2.5 to 2.5	Pass
			30	3.8	-0.483	-0.0006	-2.5 to 2.5	Pass
			40	3.8	0.326	0.0004	-2.5 to 2.5	Pass
	50		3.8	-0.434	-0.0005	-2.5 to 2.5	Pass	
	846.6		20	3.4	1.784	0.0021	-2.5 to 2.5	Pass
				3.8	-0.155	-0.0002	-2.5 to 2.5	Pass
		4.4		1.239	0.0015	-2.5 to 2.5	Pass	
		-30	3.8	-0.426	-0.0005	-2.5 to 2.5	Pass	
			-20	3.8	0.360	0.0004	-2.5 to 2.5	Pass
				3.8	0.935	0.0011	-2.5 to 2.5	Pass
		0	3.8	1.230	0.0015	-2.5 to 2.5	Pass	
			10	3.8	1.239	0.0015	-2.5 to 2.5	Pass
30			3.8	1.764	0.0021	-2.5 to 2.5	Pass	
40			3.8	0.164	0.0002	-2.5 to 2.5	Pass	
50	3.8		0.546	0.0006	-2.5 to 2.5	Pass		



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3. Field Strength of Spurious Radiation

Test Band = WCDMA Band V _ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1652.8000	43.10	-48.22	25.28	-75.10	-13.00	62.10	Horizontal
2	2479.2000	42.28	-47.31	27.24	-73.04	-13.00	60.04	Horizontal
3	3305.6000	41.69	-46.67	28.48	-71.76	-13.00	58.76	Horizontal
4	4132.0000	40.27	-45.92	29.42	-71.49	-13.00	58.49	Horizontal
5	4958.4000	40.15	-45.72	31.31	-69.52	-13.00	56.52	Horizontal
6	6994.8571	39.31	-43.60	35.19	-64.36	-13.00	51.36	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1652.8000	43.05	-48.22	25.28	-75.15	-13.00	62.15	Vertical
2	2479.2000	42.77	-47.31	27.24	-72.55	-13.00	59.55	Vertical
3	3305.6000	41.71	-46.67	28.48	-71.74	-13.00	58.74	Vertical
4	4132.0000	40.56	-45.92	29.42	-71.20	-13.00	58.20	Vertical
5	4958.4000	40.69	-45.72	31.31	-68.98	-13.00	55.98	Vertical
6	6351.4286	40.03	-44.68	33.82	-66.08	-13.00	53.08	Vertical



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Test Band = WCDMA Band V _ TM1
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.8000	42.59	-48.19	25.31	-75.55	-13.00	62.55	Horizontal
2	2509.2000	42.37	-47.24	27.32	-72.81	-13.00	59.81	Horizontal
3	3345.6000	41.74	-46.62	28.51	-71.63	-13.00	58.63	Horizontal
4	4182.0000	40.03	-45.95	29.54	-71.64	-13.00	58.64	Horizontal
5	5018.4000	40.28	-45.73	31.45	-69.26	-13.00	56.26	Horizontal
6	6727.4286	40.32	-44.08	34.71	-64.31	-13.00	51.31	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.8000	42.76	-48.19	25.31	-75.38	-13.00	62.38	Vertical
2	2509.2000	42.08	-47.24	27.32	-73.10	-13.00	60.10	Vertical
3	3345.6000	41.83	-46.62	28.51	-71.54	-13.00	58.54	Vertical
4	4182.0000	39.91	-45.95	29.54	-71.76	-13.00	58.76	Vertical
5	5018.4000	40.09	-45.73	31.45	-69.45	-13.00	56.45	Vertical
6	7245.7143	39.44	-43.69	35.89	-63.62	-13.00	50.62	Vertical



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Test Band = WCDMA Band V _ TM1
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1693.2000	42.83	-48.17	25.34	-75.26	-13.00	62.26	Horizontal
2	2539.8000	42.50	-47.13	27.38	-72.51	-13.00	59.51	Horizontal
3	3386.4000	41.48	-46.56	28.53	-71.81	-13.00	58.81	Horizontal
4	4233.0000	40.38	-45.90	29.66	-71.12	-13.00	58.12	Horizontal
5	5079.6000	39.11	-45.47	31.59	-70.02	-13.00	57.02	Horizontal
6	5738.2857	40.57	-44.60	32.65	-66.65	-13.00	53.65	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1693.2000	43.28	-48.17	25.34	-74.81	-13.00	61.81	Vertical
2	2539.8000	42.25	-47.13	27.38	-72.76	-13.00	59.76	Vertical
3	3386.4000	41.46	-46.56	28.53	-71.83	-13.00	58.83	Vertical
4	4233.0000	40.63	-45.90	29.66	-70.87	-13.00	57.87	Vertical
5	5079.6000	39.27	-45.47	31.59	-69.86	-13.00	56.86	Vertical
6	6543.4286	40.36	-44.58	34.38	-65.10	-13.00	52.10	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

2) All antennas of RSE are tested, and only the worst data is presented.



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4. 99% & 26dB Bandwidth

4.1 Band V_OBW

4.1.1 Test Result

Band V						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	4.164	/	Pass
			836.6	4.153	/	Pass
			846.6	4.164	/	Pass



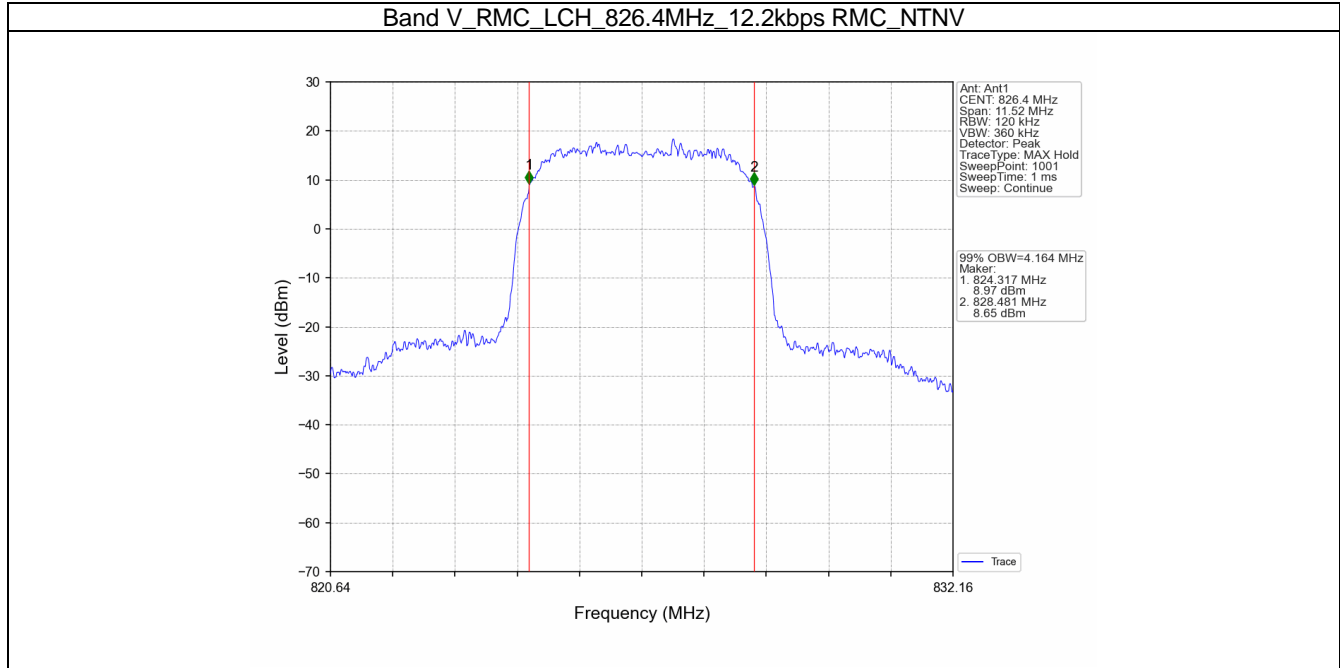
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4.1.2 Test Graph

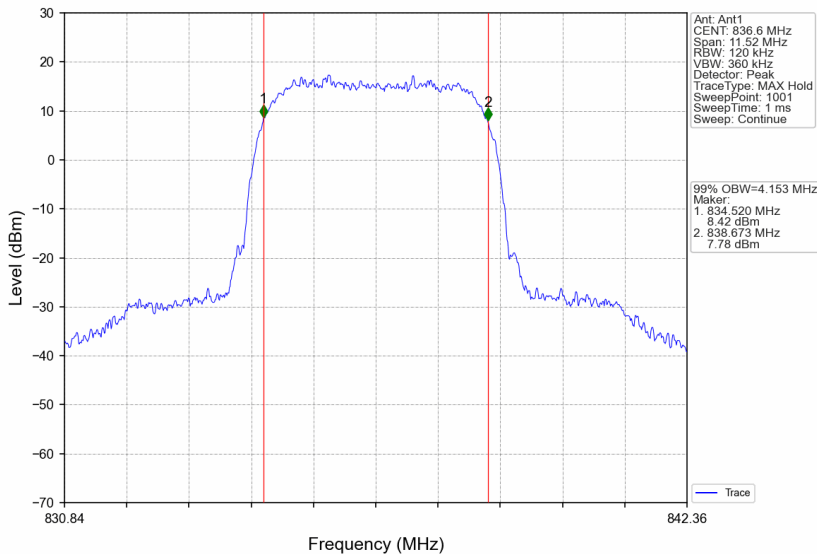


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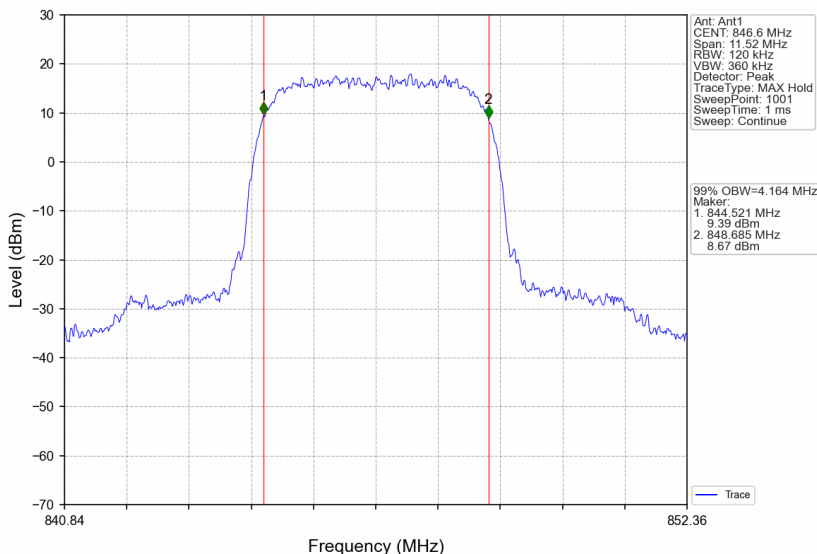
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Band V_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



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4.2 Band V_XDB

4.2.1 Test Result

ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
				Band V		
NTNV	RMC	12.2kbps RMC	826.4	4.734	/	Pass
			836.6	4.731	/	Pass
			846.6	4.739	/	Pass



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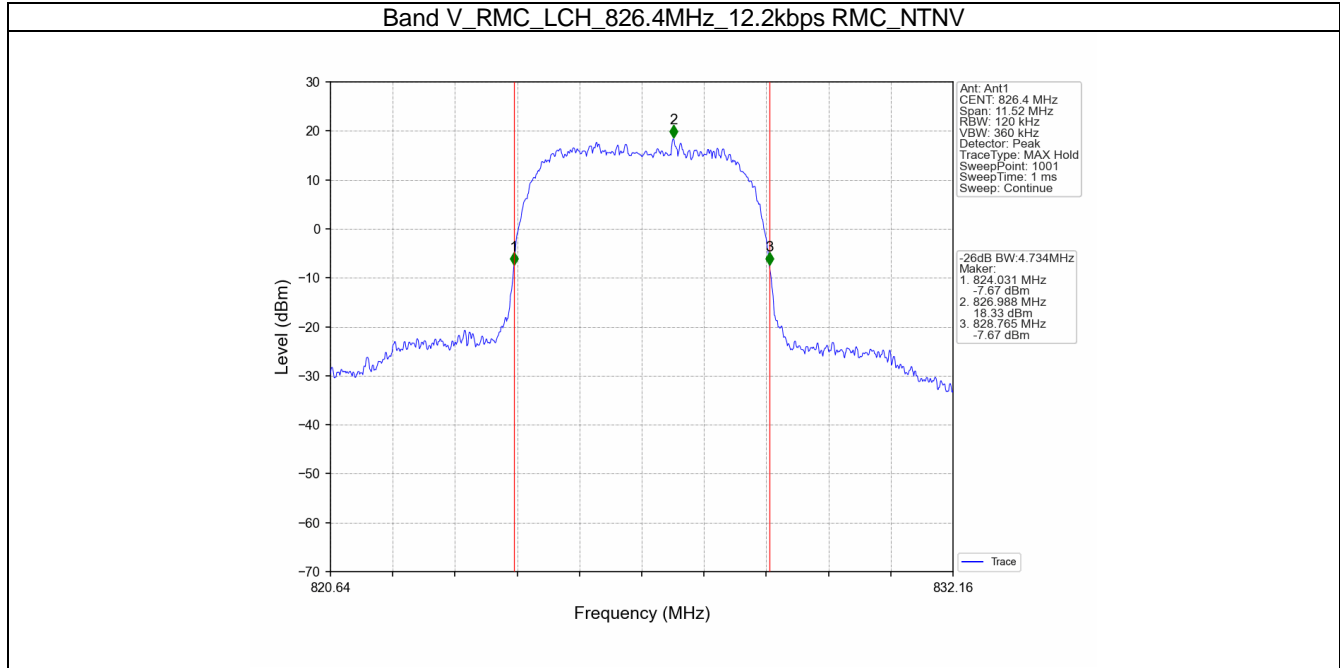
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4.2.2 Test Graph



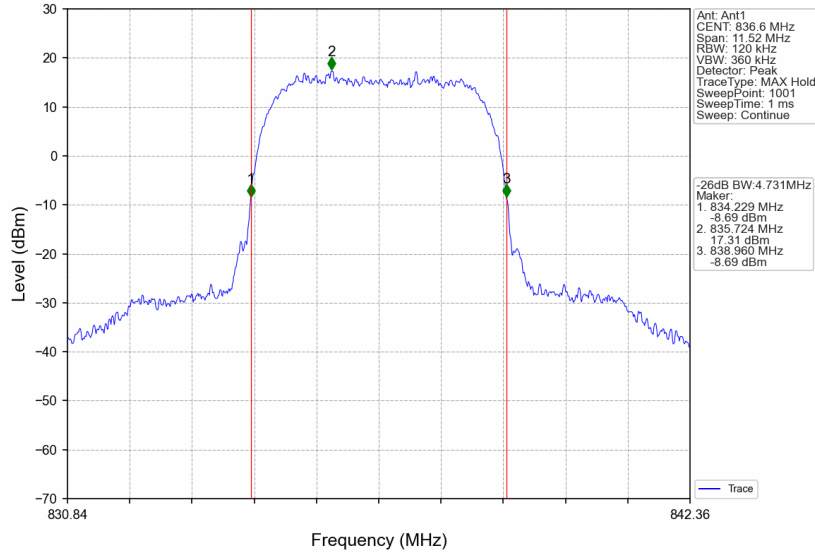
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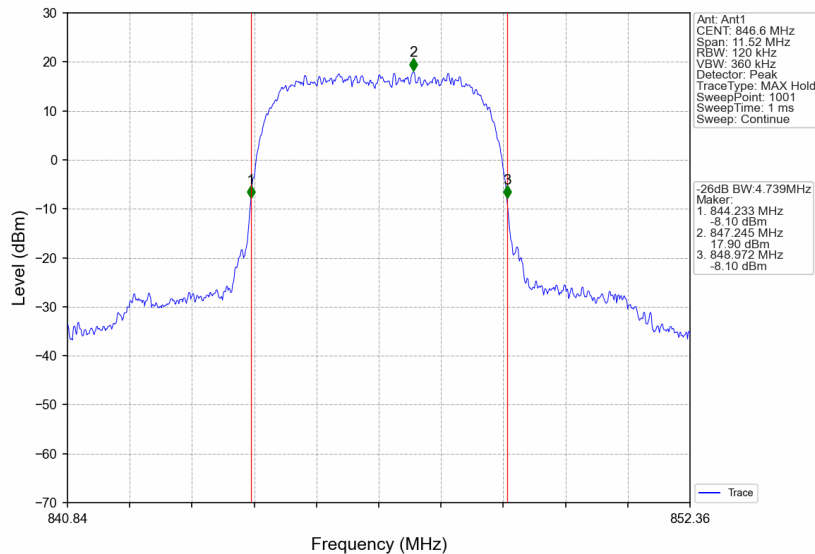
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Band V_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



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5. Peak-Average Ratio

5.1 Band V

5.1.1 Test Result

Band V						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	2.76	<=13	Pass
			836.6	2.99	<=13	Pass
			846.6	2.98	<=13	Pass



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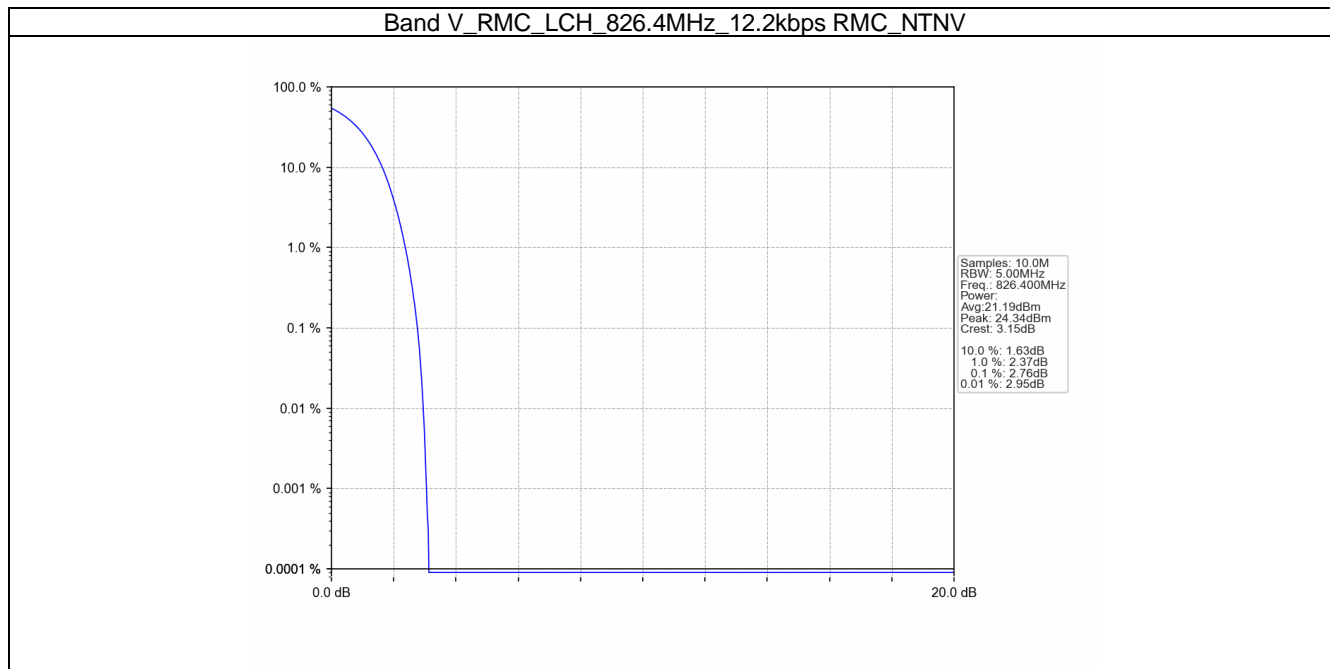
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5.1.2 Test Graph



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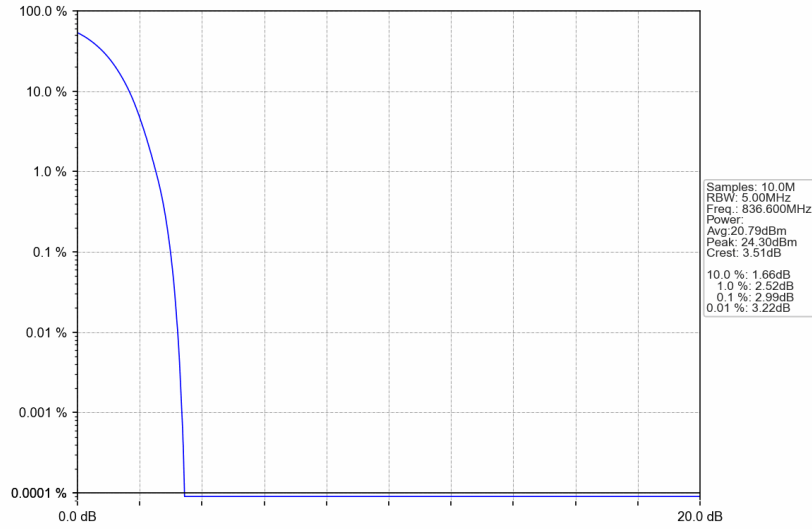
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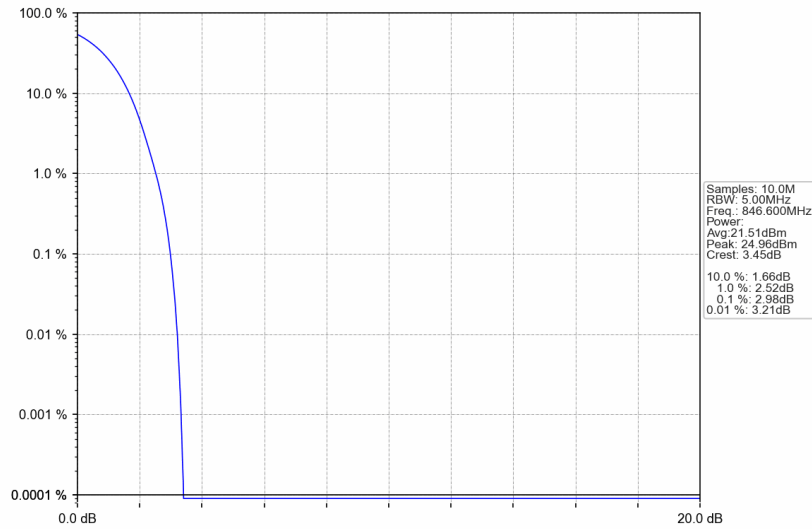
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Band V_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



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6. Spurious Emission & Band Edges

6.1 Band V

6.1.1 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



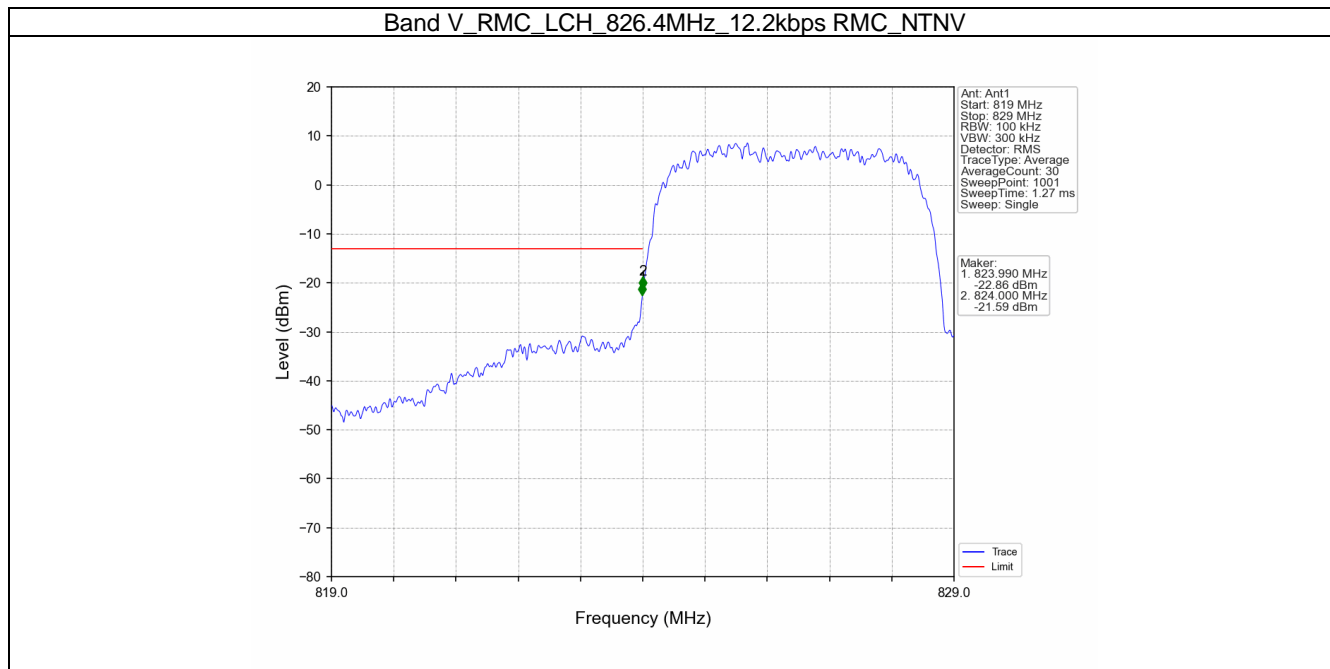
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6.1.2 Test Graph

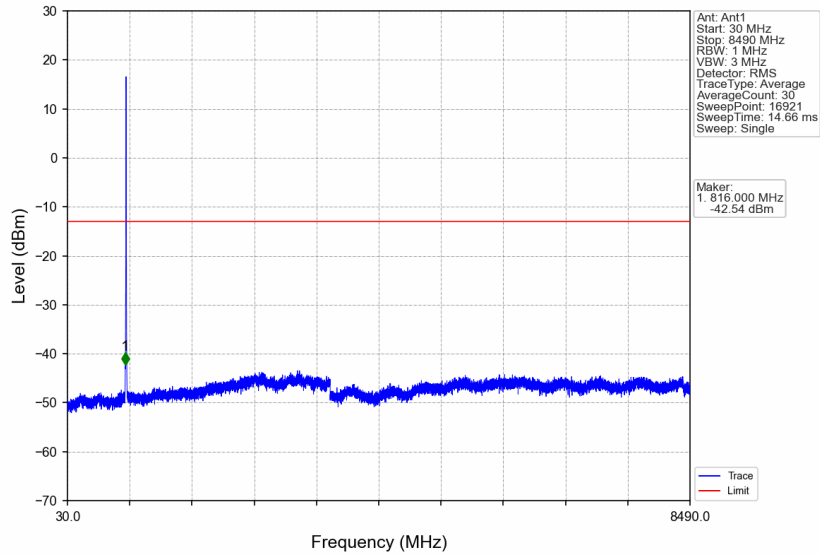


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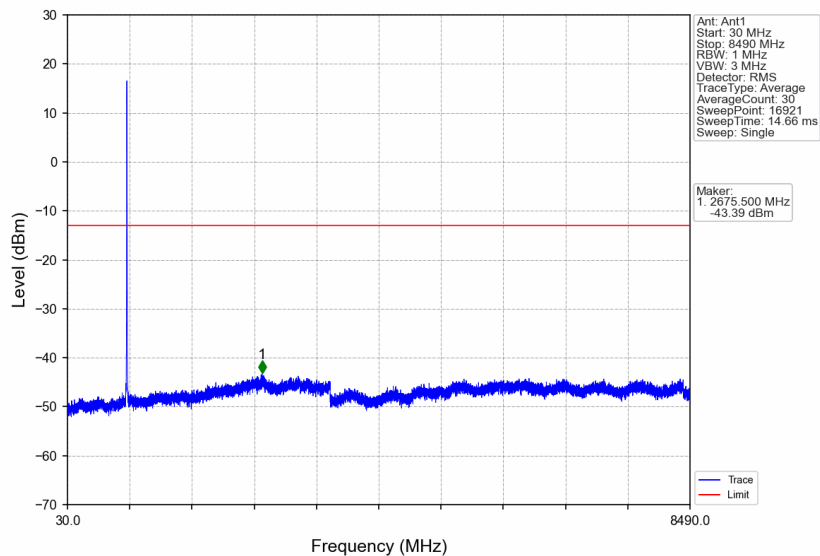
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Band V_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV

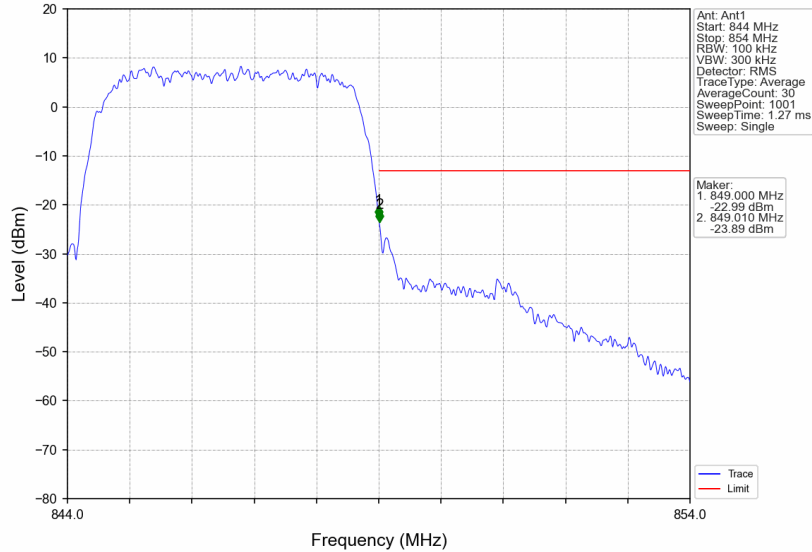


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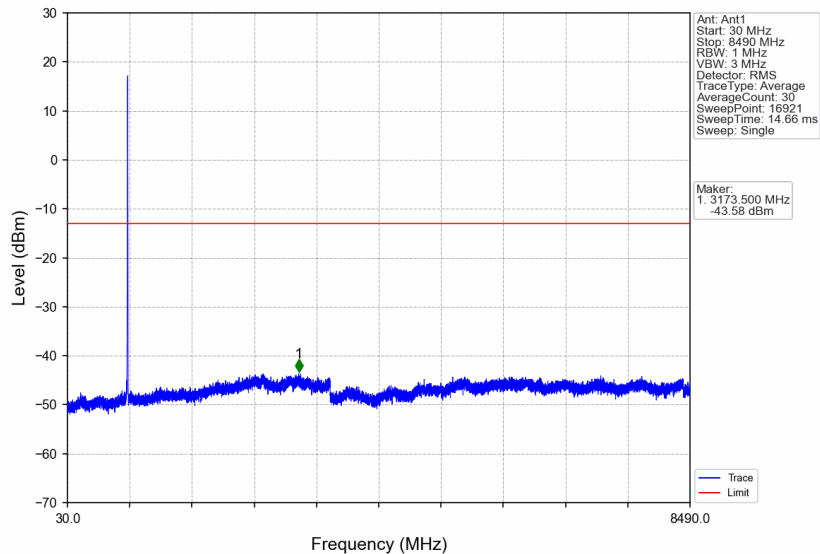
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