



Report No.: SUCR240200003402  
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# Appendix B.5

## WCDMA Band V



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1. Effective (Isotropic) Radiated Power Output Data

1.1 Band V\_ERP

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 NTN, RMC, 12.2kbps RMC at frequencies 826.4, 836.6, and 846.6 MHz.

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	3.5	-1.114	-0.0013	-2.5 to 2.5	Pass
			3.87	-0.664	-0.0008	-2.5 to 2.5	Pass
			4.45	-1.427	-0.0017	-2.5 to 2.5	Pass
		-30	3.87	-1.213	-0.0015	-2.5 to 2.5	Pass
		-20	3.87	-2.702	-0.0033	-2.5 to 2.5	Pass
		-10	3.87	-0.087	-0.0001	-2.5 to 2.5	Pass
		0	3.87	0.200	0.0002	-2.5 to 2.5	Pass
		10	3.87	-0.568	-0.0007	-2.5 to 2.5	Pass
		30	3.87	-1.065	-0.0013	-2.5 to 2.5	Pass
		40	3.87	-1.319	-0.0016	-2.5 to 2.5	Pass
	50	3.87	-0.143	-0.0002	-2.5 to 2.5	Pass	
	836.6	20	3.5	-0.172	-0.0002	-2.5 to 2.5	Pass
			3.87	-0.771	-0.0009	-2.5 to 2.5	Pass
			4.45	-0.043	-0.0001	-2.5 to 2.5	Pass
		-30	3.87	-1.016	-0.0012	-2.5 to 2.5	Pass
		-20	3.87	-1.884	-0.0023	-2.5 to 2.5	Pass
		-10	3.87	-0.826	-0.0010	-2.5 to 2.5	Pass
		0	3.87	-0.704	-0.0008	-2.5 to 2.5	Pass
		10	3.87	-0.937	-0.0011	-2.5 to 2.5	Pass
		30	3.87	-1.694	-0.0020	-2.5 to 2.5	Pass
		40	3.87	-0.837	-0.0010	-2.5 to 2.5	Pass
	50	3.87	-0.341	-0.0004	-2.5 to 2.5	Pass	
	846.6	20	3.5	1.812	0.0021	-2.5 to 2.5	Pass
			3.87	0.078	0.0001	-2.5 to 2.5	Pass
			4.45	-0.570	-0.0007	-2.5 to 2.5	Pass
		-30	3.87	0.778	0.0009	-2.5 to 2.5	Pass
		-20	3.87	0.004	0.0000	-2.5 to 2.5	Pass
		-10	3.87	0.577	0.0007	-2.5 to 2.5	Pass
		0	3.87	0.698	0.0008	-2.5 to 2.5	Pass
		10	3.87	0.438	0.0005	-2.5 to 2.5	Pass
30		3.87	0.215	0.0003	-2.5 to 2.5	Pass	
40		3.87	1.498	0.0018	-2.5 to 2.5	Pass	
50	3.87	0.409	0.0005	-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 7 columns: ENV, Mode (Network, Subset), Frequency (MHz), 99% Occupied Bandwidth (MHz) (Result, Limit), Verdict. Rows include data for NTNV with RMC mode and 12.2kbps RMC subset at frequencies 826.4, 836.6, and 846.6 MHz.

3.2 Band V\_XDB

3.2.1 Test Result

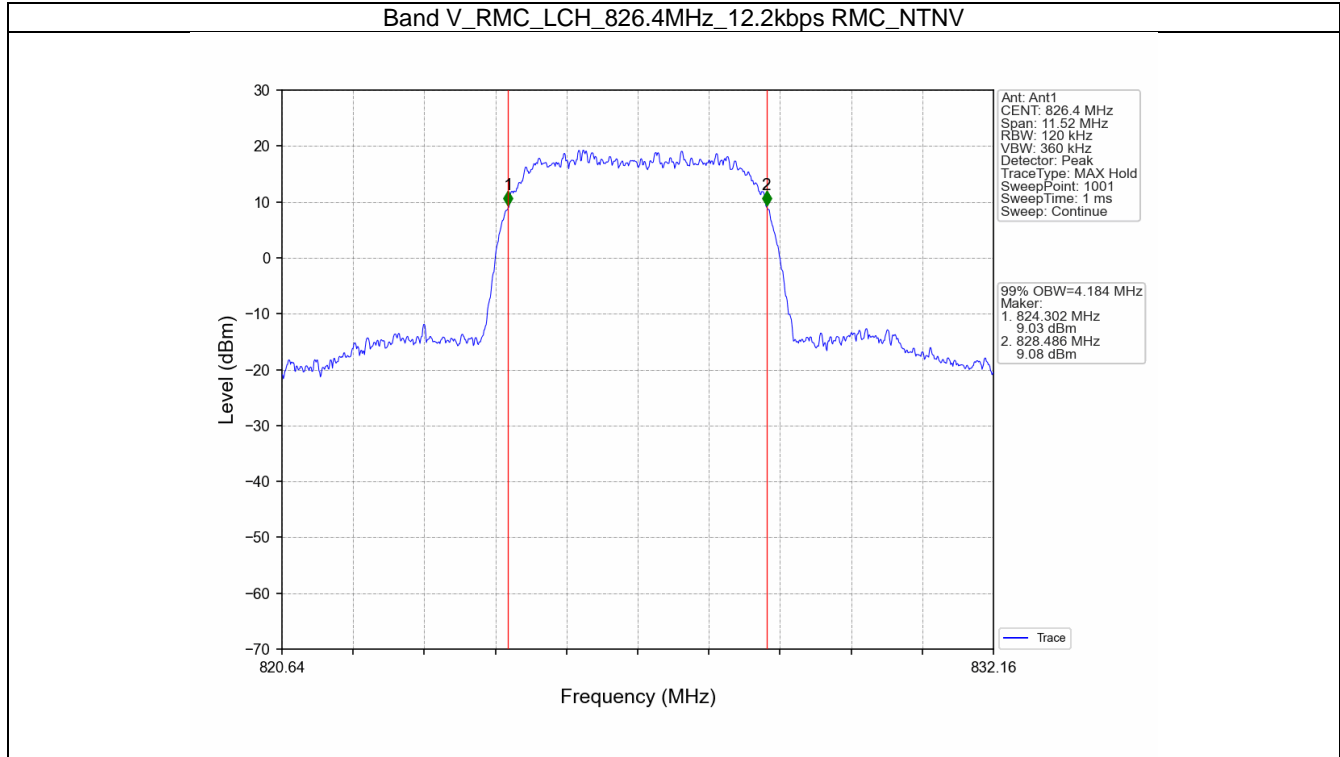
Table with 7 columns: ENV, Mode (Network, Subset), Frequency (MHz), 26dB Bandwidth (MHz) (Result, Limit), Verdict. Rows include data for NTNV with RMC mode and 12.2kbps RMC subset at frequencies 826.4, 836.6, and 846.6 MHz.



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3.1 Band V\_OBW

3.1.2 Test Graph

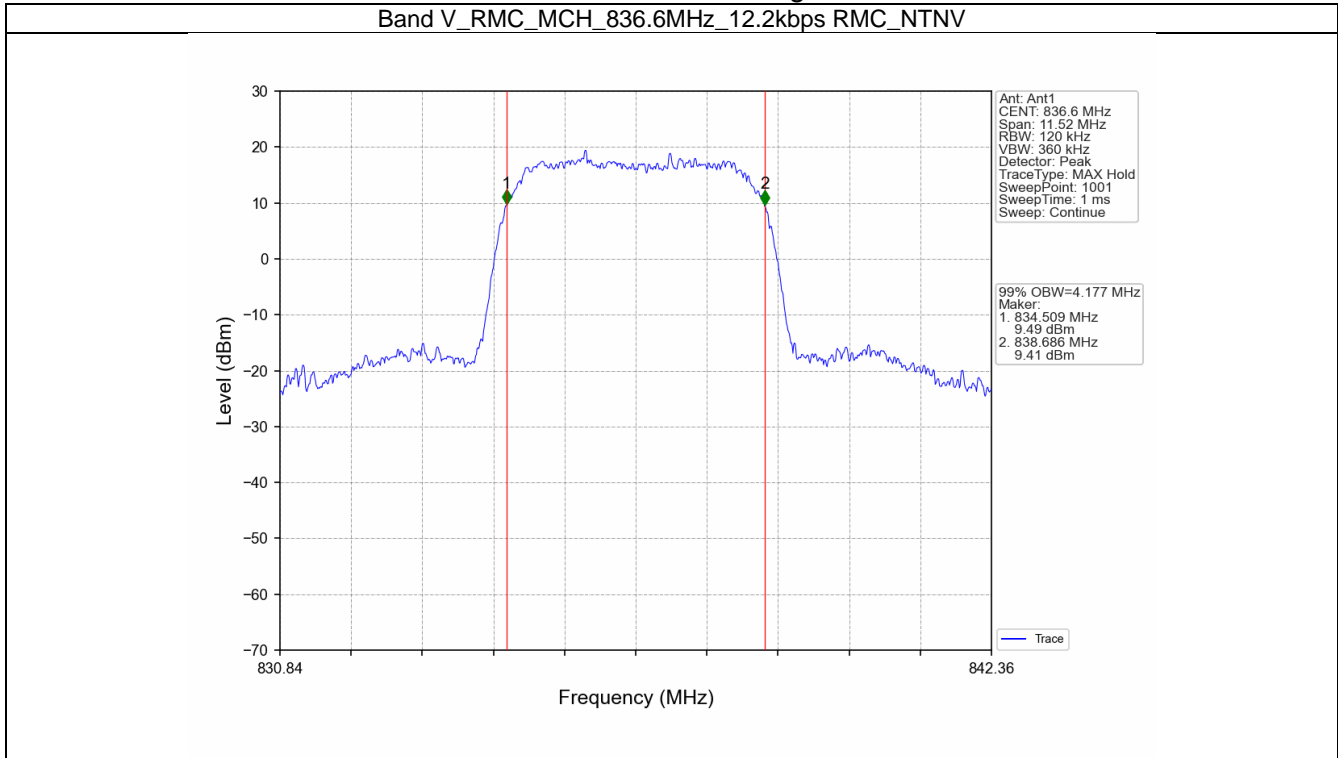


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Band V\_RMC\_MCH\_836.6MHz\_12.2kbps RMC\_NTNV



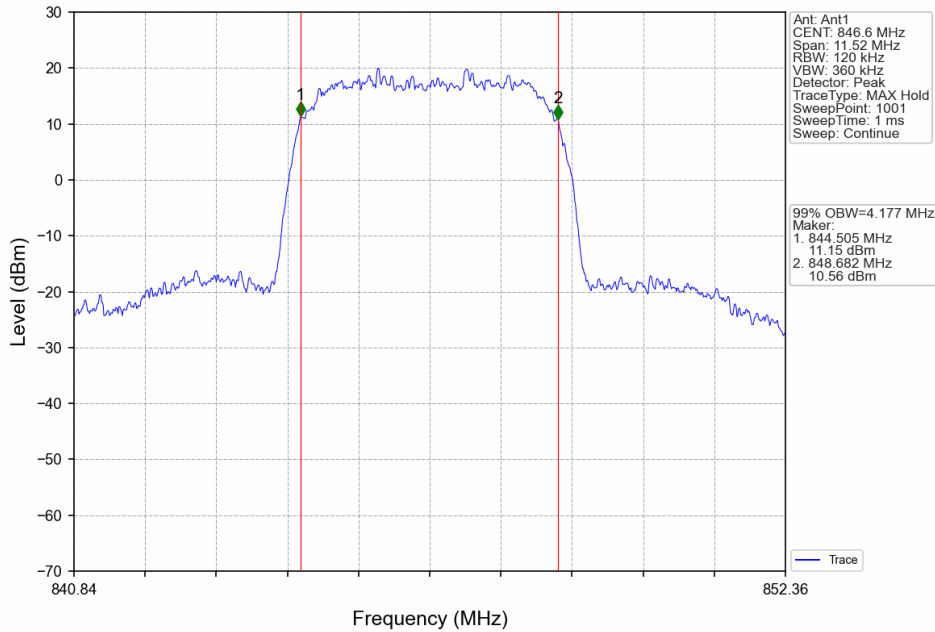
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Band V\_RMC\_HCH\_846.6MHz\_12.2kbps RMC\_NTNV



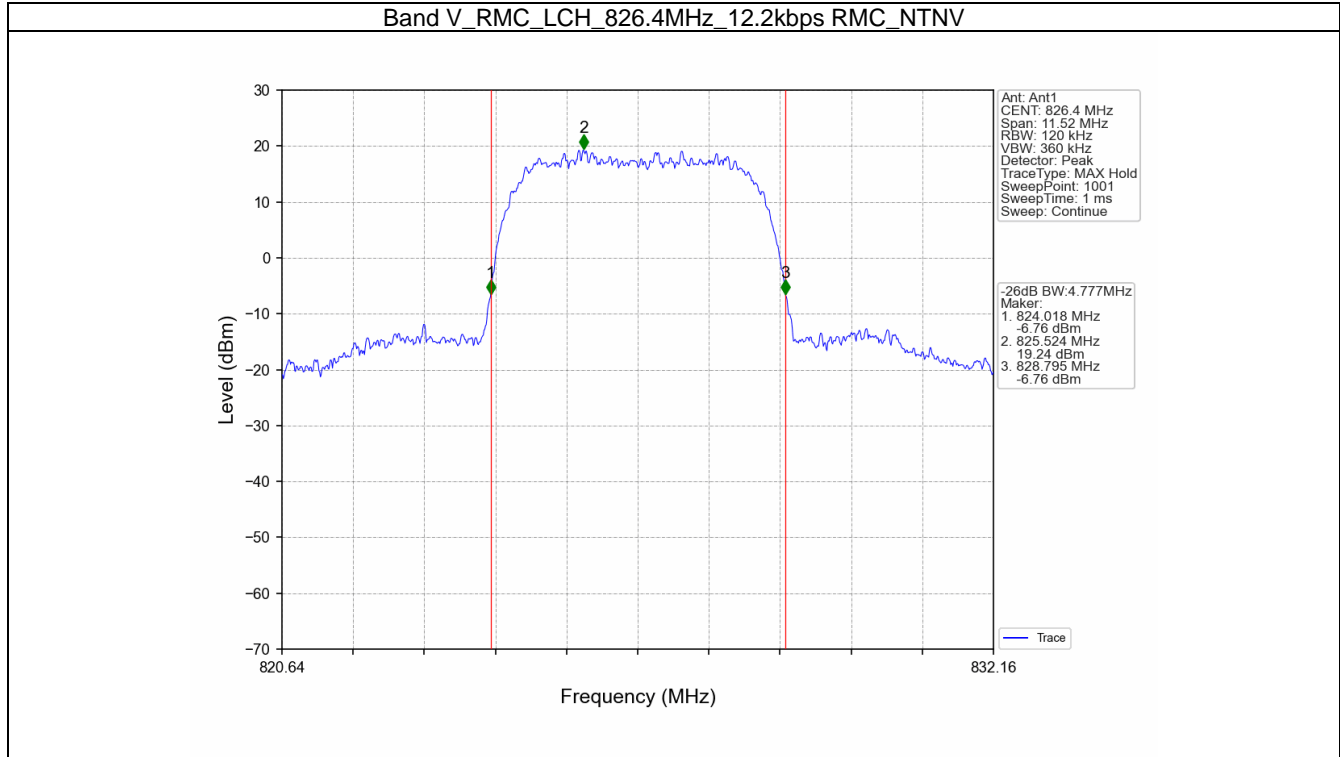
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### 3.2 Band V\_XDB

#### 3.2.2 Test Graph



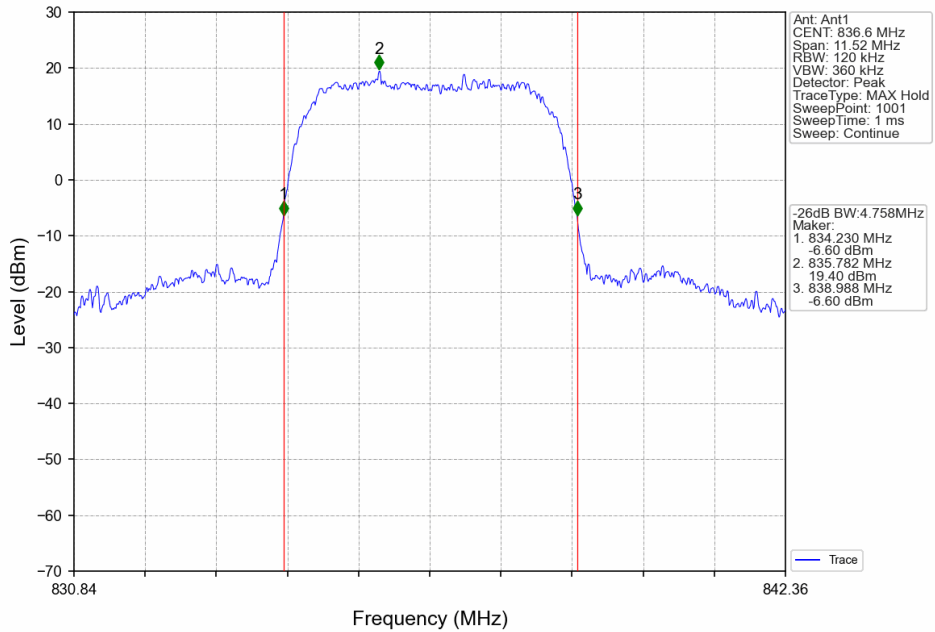
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Band V\_RMC\_MCH\_836.6MHz\_12.2kbps RMC\_NTNV

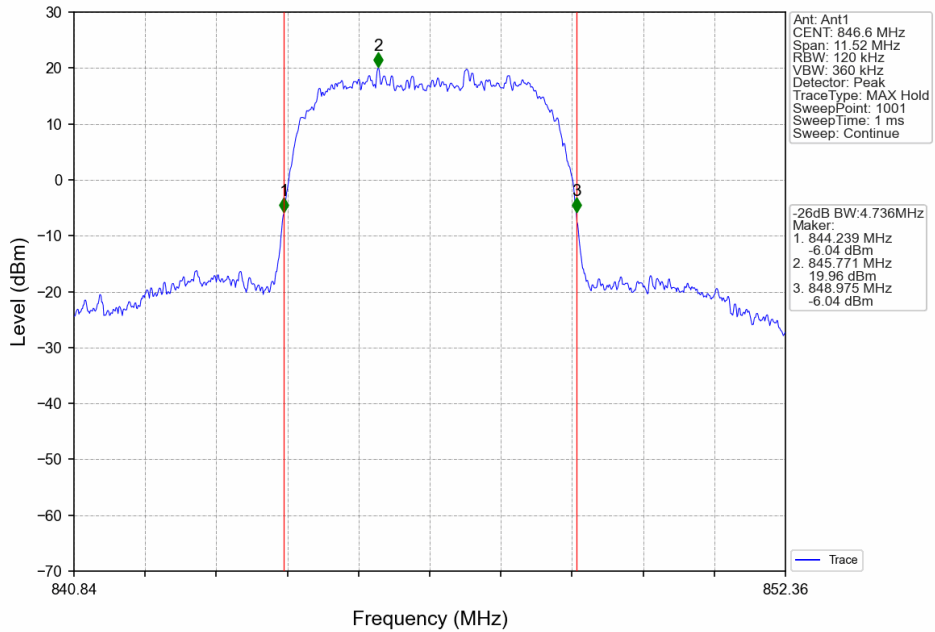


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Band V\_RMC\_HCH\_846.6MHz\_12.2kbps RMC\_NTNV



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4. Peak-Average Ratio

4.1 Band V

4.1.1 Test Result

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



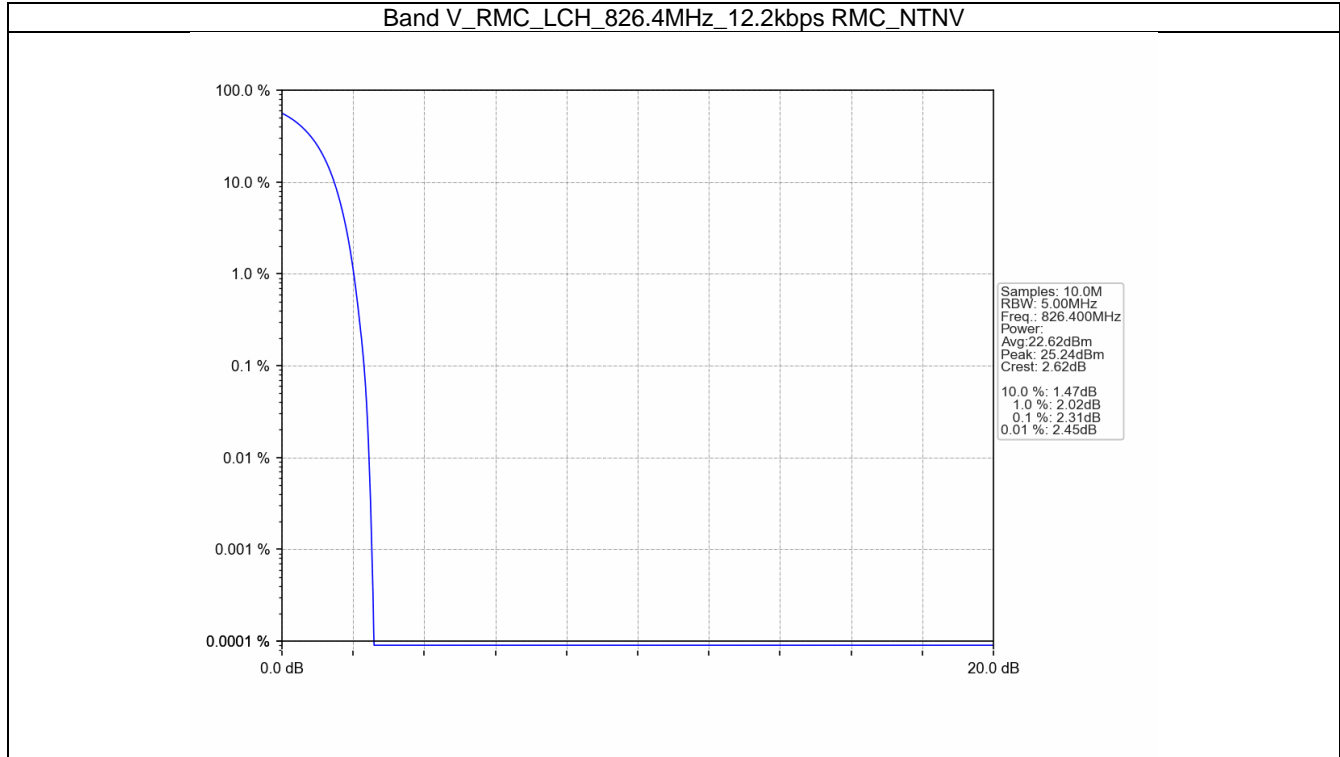
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4.1 Band V

4.1.2 Test Graph



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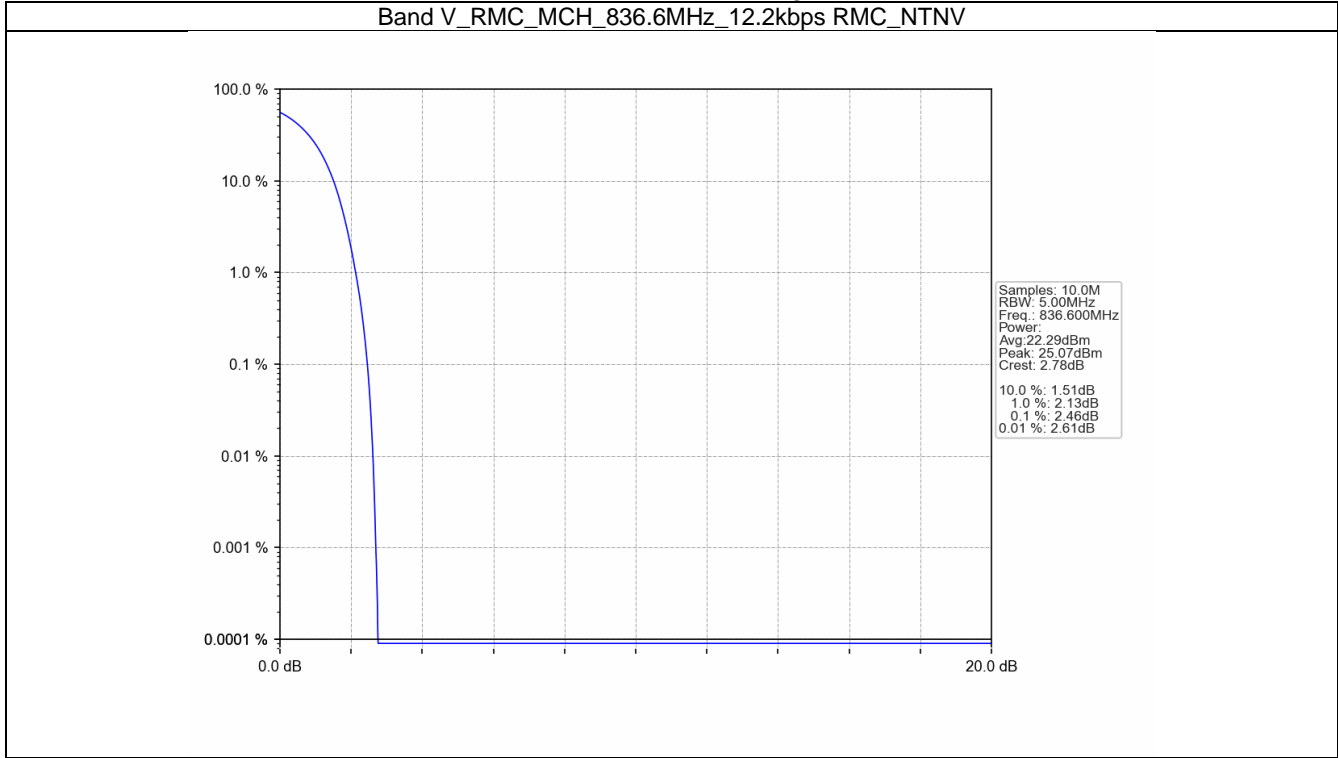


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Band V\_RMC\_MCH\_836.6MHz\_12.2kbps RMC\_NTNV



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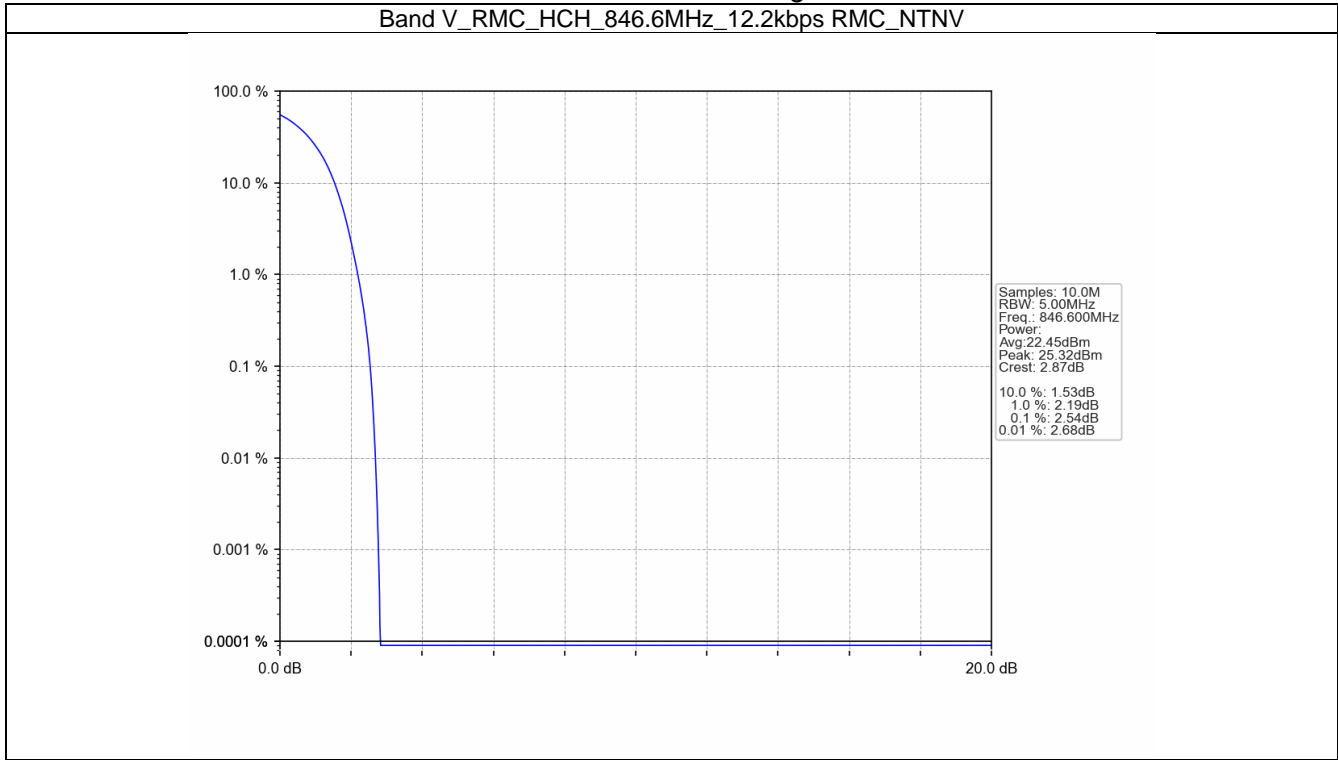


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Band V\_RMC\_HCH\_846.6MHz\_12.2kbps RMC\_NTNV



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5. Spurious Emission & Band Edges

5.1 Band V

5.1.1 Test Result

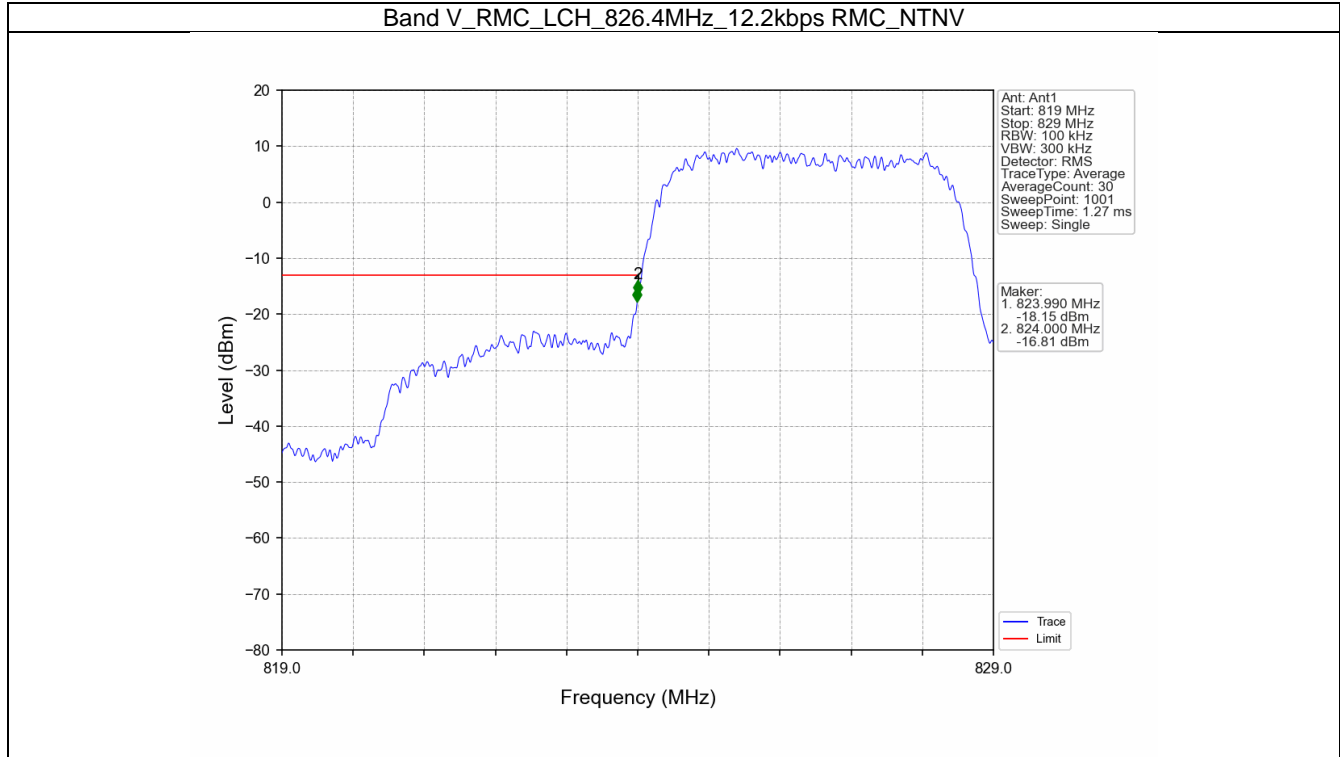
Table with columns: ENV, Mode (Network, Subset), Frequency (MHz), Spurious Emission (Result, Limit), Verdict. Rows include data for NTNV with RMC mode and frequencies 826.4, 836.6, 846.6 MHz, all resulting in 'Pass' verdicts.



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5.1 Band V

5.1.2 Test Graph

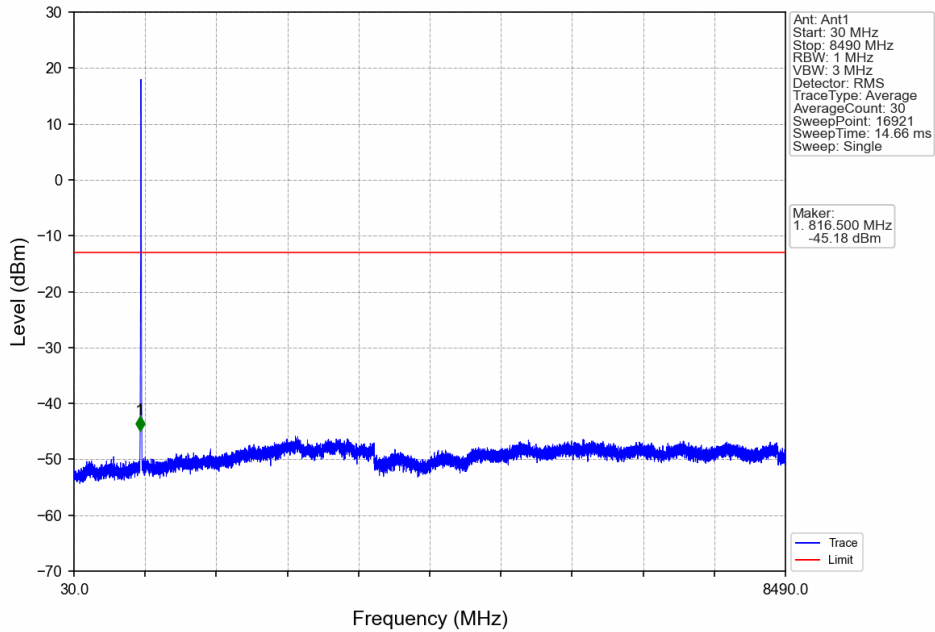


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Band V\_RMC\_LCH\_826.4MHz\_12.2kbps RMC\_NTNV

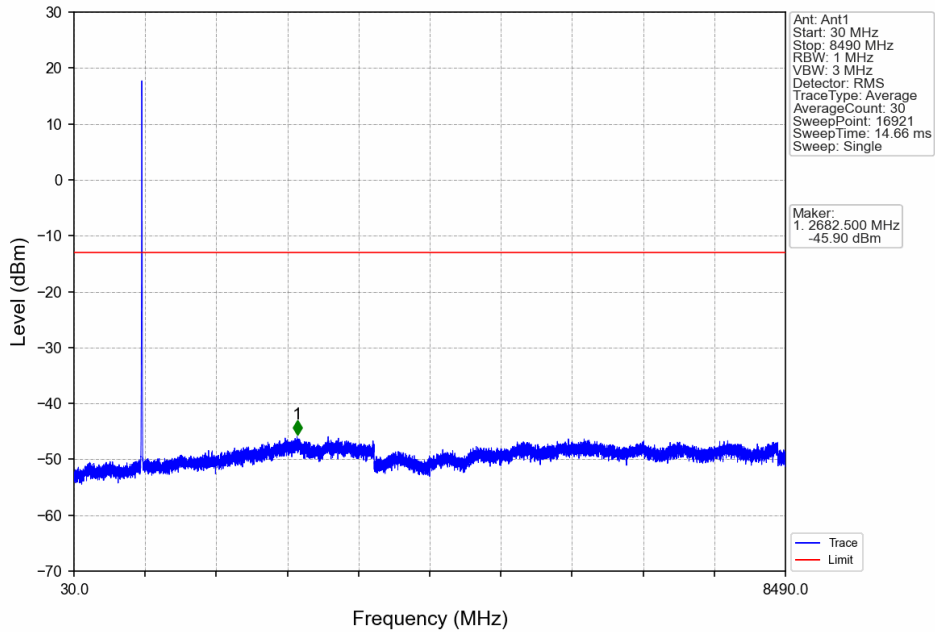


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Band V\_RMC\_MCH\_836.6MHz\_12.2kbps RMC\_NTNV

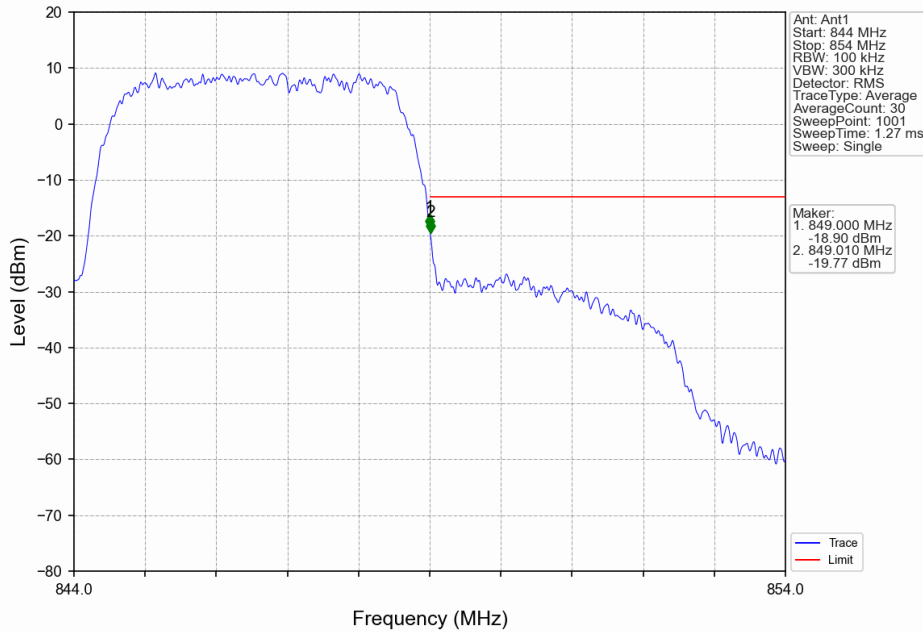


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Band V\_RMC\_HCH\_846.6MHz\_12.2kbps RMC\_NTNV

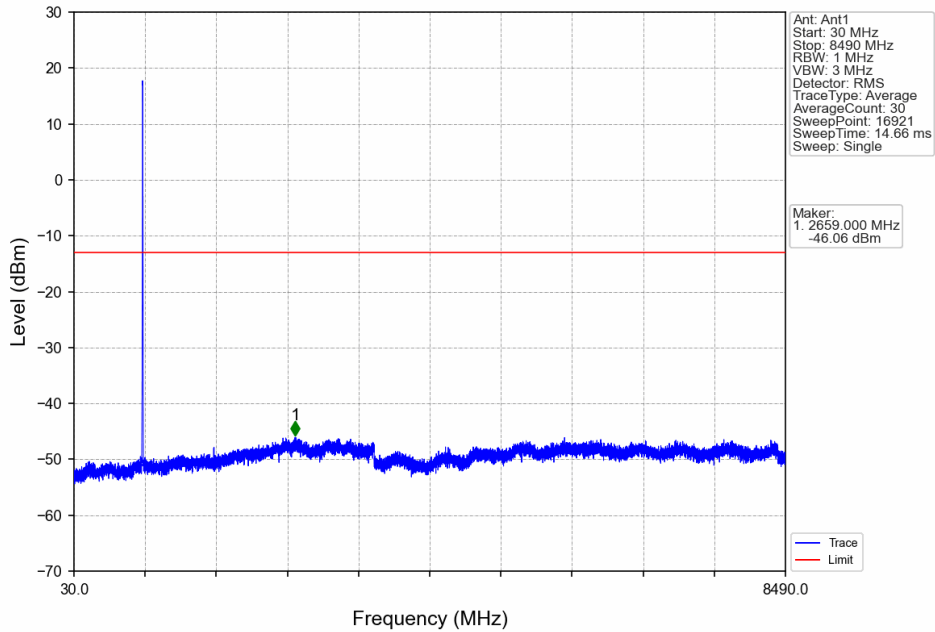


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### 6. Field Strength of Spurious Radiation

Test Band = WCDMA\_Band V  
 Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1651	61.24	-52.87	25.90	-60.99	-13.00	47.99	Horizontal
2	2476	86.07	-51.24	27.95	-32.48	-13.00	19.48	Horizontal
3	4130.5	64.76	-47.57	30.94	-47.13	-13.00	34.13	Horizontal
4	5109.5	51.56	-44.09	33.52	-54.27	-13.00	41.27	Horizontal
5	7513	50.74	-42.45	36.65	-50.32	-13.00	37.32	Horizontal
6	9554.5	49.36	-39.81	39.11	-46.60	-13.00	33.60	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1651	57.19	-52.87	25.90	-65.04	-13.00	52.04	Vertical
2	2476.5	81.89	-51.24	27.95	-36.66	-13.00	23.66	Vertical
3	4126	58.50	-47.66	30.91	-53.51	-13.00	40.51	Vertical
4	5106.5	51.79	-44.08	33.51	-54.04	-13.00	41.04	Vertical
5	8048	50.15	-41.64	37.59	-49.16	-13.00	36.16	Vertical
6	9537.5	49.47	-39.94	39.13	-46.60	-13.00	33.60	Vertical



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Rev.: 01
Page: 22 of 23

Test Band = WCDMA\_Band V
Test Channel = MCH

Table with 9 columns: NO., Freq. [MHz], Reading [dBµV], Factor [dB], AF[dB/m], Level [dBm], Limit [dBm], Margin [dB], Polarity. Contains 6 rows of test data.

Table with 9 columns: NO., Freq. [MHz], Reading [dBµV], Factor [dB], AF[dB/m], Level [dBm], Limit [dBm], Margin [dB], Polarity. Contains 6 rows of test data.



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Rev.: 01
Page: 23 of 23

Test Band = WCDMA\_Band V
Test Channel = HCH

Table with 9 columns: NO., Freq. [MHz], Reading [dBµV], Factor [dB], AF[dB/m], Level [dBm], Limit [dBm], Margin [dB], Polarity. Contains 6 rows of test data.

Table with 9 columns: NO., Freq. [MHz], Reading [dBµV], Factor [dB], AF[dB/m], Level [dBm], Limit [dBm], Margin [dB], Polarity. Contains 6 rows of test data.

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) - Pre-amplifier (dB)
Level = Reading Level + AF + Factor -95.26
Margin = Limit - Level

---End of Attachment---



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