

Report No.: SZCR240400113601

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### Appendix B.5

WCDMA Band V



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# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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- 1. Effective (Isotropic) Radiated Power Output Data
- 1.1 Band V ERP
- 1.1.1 Test Result

#### Ant1

	Band V											
ENV		Mode	Frequency Conducted Power C		Gain	ERP	(dBm)	Verdict				
EINV	Network	Subset	(MHz)	(dBm)	(dBi)	Result	Limit	verdict				
			826.4	24.20	-4.20	17.85	<=38.45	Pass				
NTNV	RMC	12.2kbps RMC	836.6	24.38	-4.20	18.03	<=38.45	Pass				
			846.6	24.36	-4.20	18.01	<=38.45	Pass				



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#### 2. Frequency Stability

#### 2.1 Band V

#### 2.1.1 Test Result

				Band V				
Matriagli	Frequency	Temp.	Voltage	Freq. Error	Freq. vs. R	ated (ppm)	\/a = d: at	
Network	(MHz)	(°C)	(VDC)	(Hz)	Result	Limit	Verdict	
			3.91	-3.086	-0.0037	-2.5 to 2.5	Pass	
		20	3.5	-2.615	-0.0032	-2.5 to 2.5	Pass	
			4.5	-2.919	-0.0035	-2.5 to 2.5	Pass	
		-30	3.91	-3.051	-0.0037	-2.5 to 2.5	Pass	
		-20	3.91	-2.386	-0.0029	-2.5 to 2.5	Pass	
	826.4	-10	3.91	-2.385	-0.0029	-2.5 to 2.5	Pass	
		0	3.91	-2.530	-0.0031	-2.5 to 2.5	Pass	
		10	3.91	-2.813	-0.0034	-2.5 to 2.5	Pass	
		30	3.91	-2.747	-0.0033	-2.5 to 2.5	Pass	
		40	3.91	-1.353	-0.0016	-2.5 to 2.5	Pass	
		50	3.91	-2.327	-0.0028	-2.5 to 2.5	Pass	
			3.91	-0.812	-0.0010	-2.5 to 2.5	Pass	
		20	3.5	-0.812	-0.0010	-2.5 to 2.5	Pass	
			4.5	-1.805	-0.0022	-2.5 to 2.5	Pass	
		-30	3.91	-2.232	-0.0027	-2.5 to 2.5	Pass	
		-20	3.91	-1.706	-0.0020	-2.5 to 2.5	Pass	
RMC	836.6	836.6	-10	3.91	-1.075	-0.0013	-2.5 to 2.5	Pass
		0	3.91	-0.844	-0.0010	-2.5 to 2.5	Pass	
		10	3.91	-1.737	-0.0021	-2.5 to 2.5	Pass	
		30	3.91	-1.415	-0.0017	-2.5 to 2.5	Pass	
		40	3.91	-1.040	-0.0012	-2.5 to 2.5	Pass	
		50	3.91	-1.111	-0.0013	-2.5 to 2.5	Pass	
			3.91	0.004	0.0000	-2.5 to 2.5	Pass	
		20	3.5	-0.180	-0.0002	-2.5 to 2.5	Pass	
			4.5	-1.074	-0.0013	-2.5 to 2.5	Pass	
		-30	3.91	-0.616	-0.0007	-2.5 to 2.5	Pass	
		-20	3.91	-0.332	-0.0004	-2.5 to 2.5	Pass	
	846.6	-10	3.91	0.657	0.0008	-2.5 to 2.5	Pass	
		0	3.91	0.349	0.0004	-2.5 to 2.5	Pass	
		10	3.91	0.082	0.0001	-2.5 to 2.5	Pass	
		30	3.91	1.343	0.0016	-2.5 to 2.5	Pass	
		40	3.91	-1.607	-0.0019	-2.5 to 2.5	Pass	
		50	3.91	0.362	0.0004	-2.5 to 2.5	Pass	



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3. 99% & 26dB Bandwidth

3.1 Band V OBW

#### 3.1.1 Test Result

	Band V										
ENV		Mode	Frequency	99% Occupied E	Bandwidth (MHz)	Verdict					
EINV	Network	Subset	(MHz)	Result	Limit	verdict					
			826.4	4.171	/	Pass					
NTNV	RMC	12.2kbps RMC	836.6	4.164	/	Pass					
			846.6	4.160	/	Pass					



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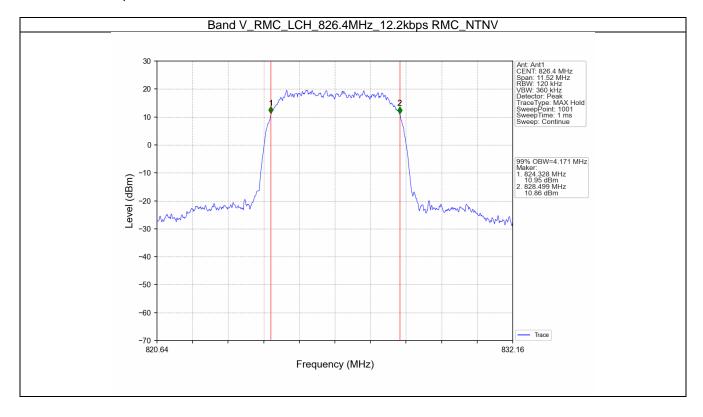


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#### 3.1.2 Test Graph





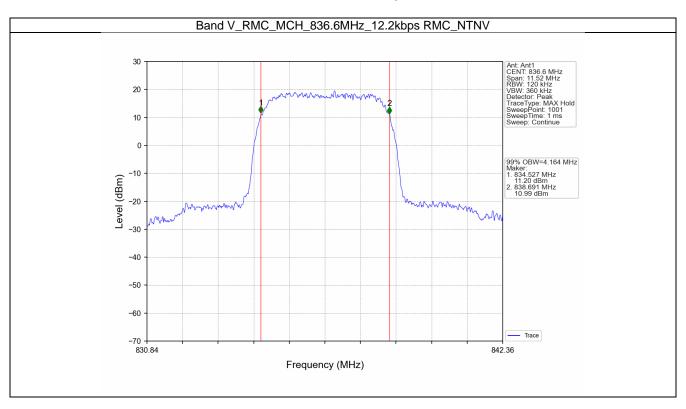
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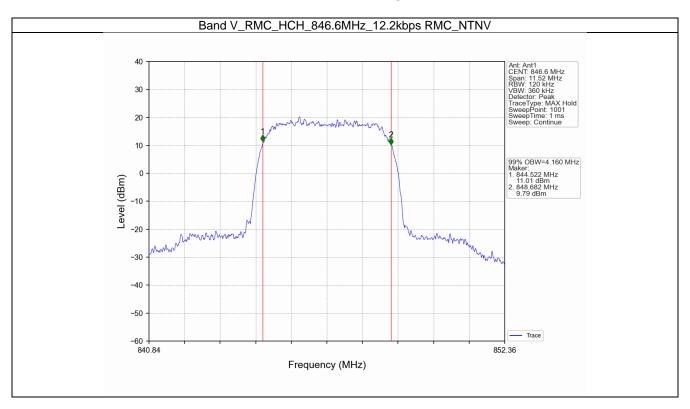
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#### 3.2 Band V\_XDB

#### 3.2.1 Test Result

			Band V			
ENV	Mode		Frequency	26dB Bandwidth (MHz)		Verdict
EINV	Network	Subset	(MHz)	Result	Limit	verdict
			826.4	4.748	/	Pass
NTNV	RMC	12.2kbps RMC	836.6	4.748	/	Pass
		·	846.6	4.717	/	Pass



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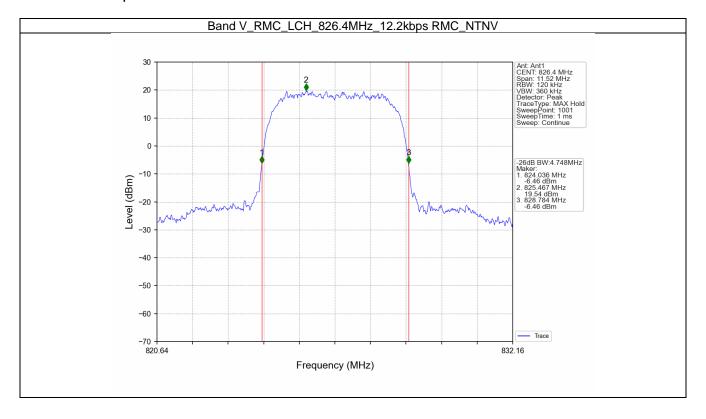


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#### 3.2.2 Test Graph





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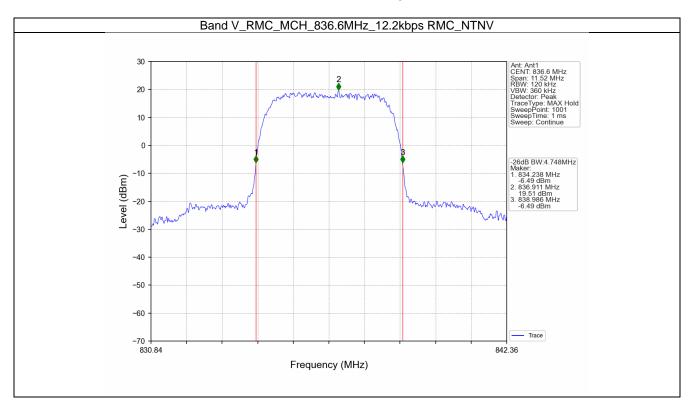


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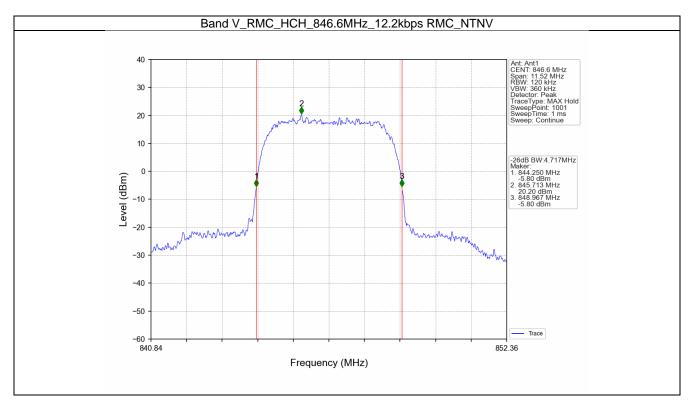


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#### 4. Peak-Average Ratio

#### 4.1 Band V

#### 4.1.1 Test Result

			Band V			
ENV		Mode		Peak-Averag	ge Ratio (dB)	Verdict
EINV	Network	Subset	(MHz)	Result	Limit	verdict
			826.4	2.92	<=13	Pass
NTNV	RMC	12.2kbps RMC	836.6	2.85	<=13	Pass
			846.6	2.88	<=13	Pass



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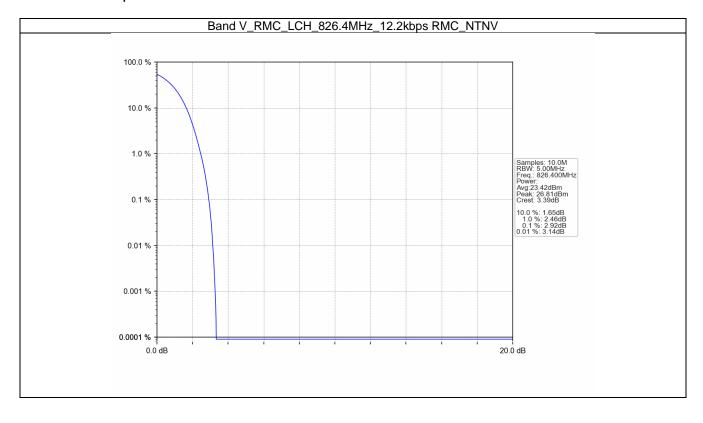
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#### 4.1.2 Test Graph





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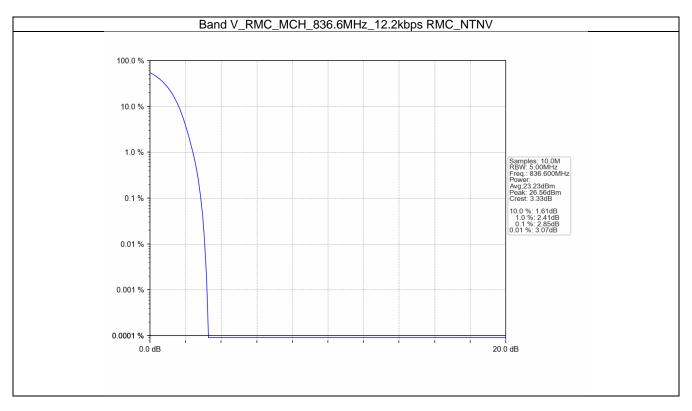


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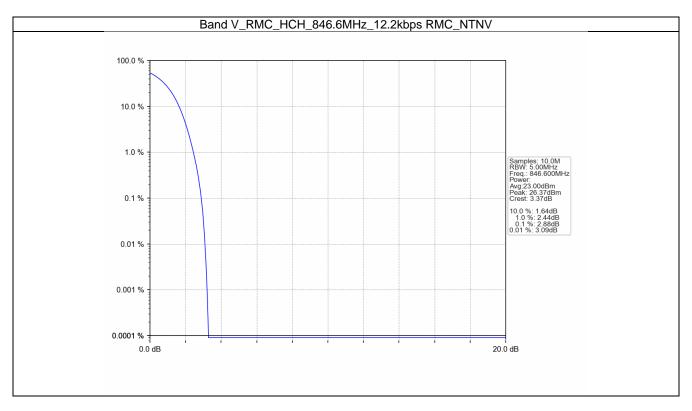


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#### 5. Spurious Emission & Band Edges

#### 5.1 Band V

#### 5.1.1 Test Result

	Band V										
ENV		Mode	Frequency	Spurious Emission		Verdict					
EINV	Network Subset		(MHz)	Result	Result Limit						
			826.4	Refer To Test	Graph	Pass					
NTNV	RMC	12.2kbps RMC	836.6	Refer To Test	Graph	Pass					
			846.6	Refer To Test	Graph	Pass					



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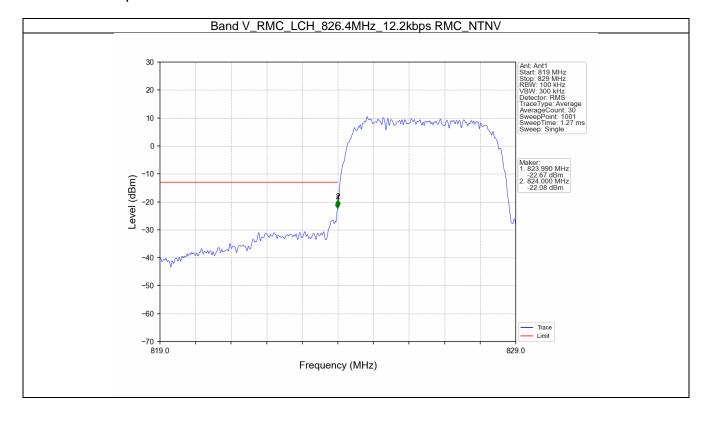
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#### 5.1.2 Test Graph





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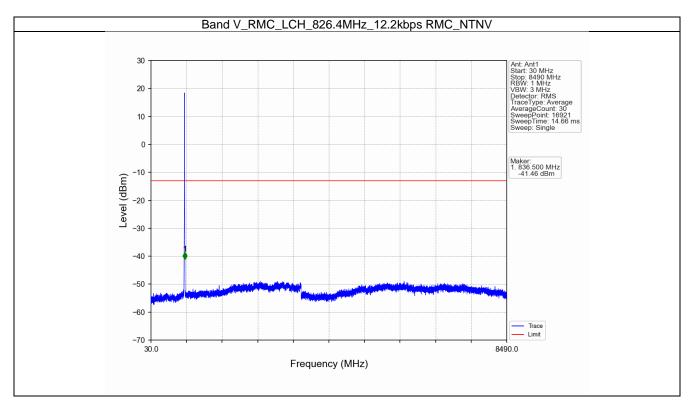


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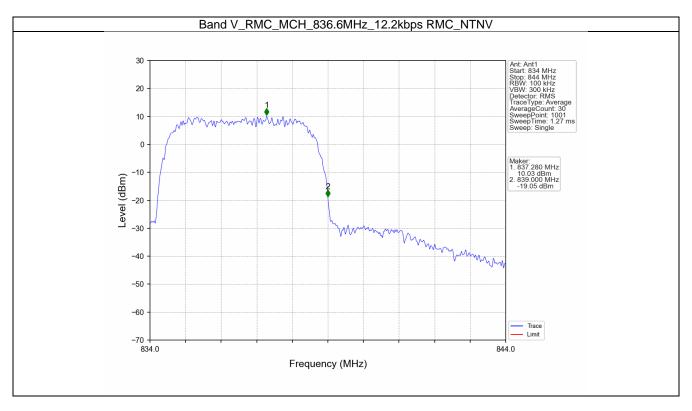


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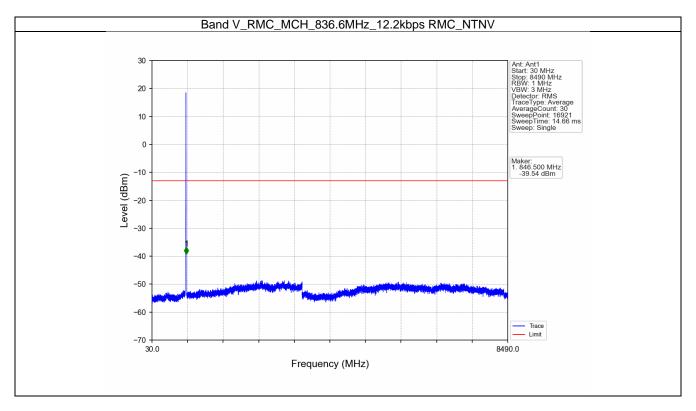


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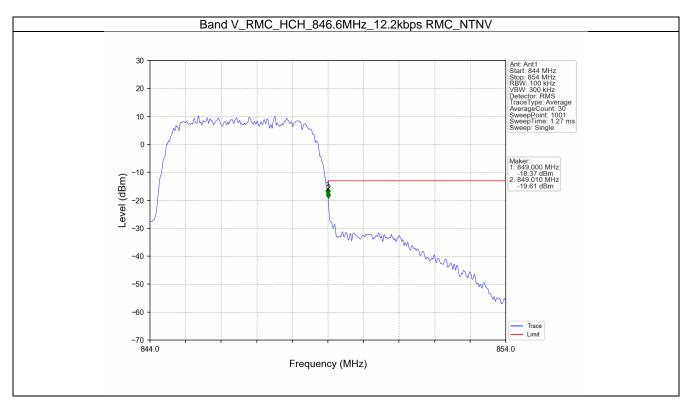


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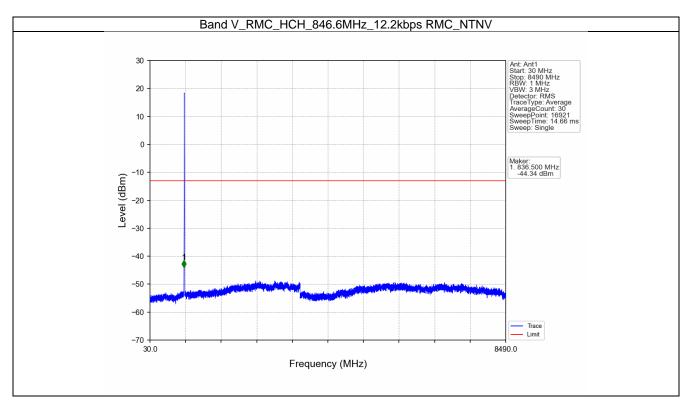


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#### 6. Field Strength of Spurious Radiation

#### Test Band = Band V ANT0\_ TM1 Test Channel = low

Final	Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity				
1	1652.8000	45.76	24.91	-48.84	-73.43	-13.00	60.43	Horizontal				
2	2479.2000	45.12	27.35	-47.86	-70.65	-13.00	57.65	Horizontal				
3	3305.6000	44.39	28.66	-47.16	-69.37	-13.00	56.37	Horizontal				
4	4132.0000	44.11	29.69	-47.45	-68.91	-13.00	55.91	Horizontal				
5	4958.4000	44.38	31.30	-46.97	-66.55	-13.00	53.55	Horizontal				
6	5784.8000	44.05	32.49	-46.98	-65.70	-13.00	52.70	Horizontal				

Final	Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity				
1	1652.8000	45.66	24.91	-48.84	-73.53	-13.00	60.53	Vertical				
2	2479.2000	44.34	27.35	-47.86	-71.43	-13.00	58.43	Vertical				
3	3305.6000	44.48	28.66	-47.16	-69.28	-13.00	56.28	Vertical				
4	4132.0000	44.27	29.69	-47.45	-68.75	-13.00	55.75	Vertical				
5	4958.4000	44.01	31.30	-46.97	-66.92	-13.00	53.92	Vertical				
6	5784.8000	43.70	32.49	-46.98	-66.05	-13.00	53.05	Vertical				



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#### Test Band = Band V ANT0\_ TM1 Test Channel = mid

Final	Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity				
1	1672.8000	45.16	24.95	-48.81	-73.96	-13.00	60.96	Horizontal				
2	2509.2000	44.96	27.42	-47.79	-70.67	-13.00	57.67	Horizontal				
3	3345.6000	44.30	28.67	-47.25	-69.54	-13.00	56.54	Horizontal				
4	4182.0000	44.10	29.76	-47.21	-68.61	-13.00	55.61	Horizontal				
5	5018.4000	43.83	31.44	-46.97	-66.96	-13.00	53.96	Horizontal				
6	5854.8000	43.59	32.46	-46.54	-65.75	-13.00	52.75	Horizontal				

Final	Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity				
1	1672.8000	45.35	24.95	-48.81	-73.77	-13.00	60.77	Vertical				
2	2509.2000	44.70	27.42	-47.79	-70.93	-13.00	57.93	Vertical				
3	3345.6000	44.50	28.67	-47.25	-69.34	-13.00	56.34	Vertical				
4	4182.0000	44.19	29.76	-47.21	-68.52	-13.00	55.52	Vertical				
5	5018.4000	43.87	31.44	-46.97	-66.92	-13.00	53.92	Vertical				
6	5854.8000	43.68	32.46	-46.54	-65.66	-13.00	52.66	Vertical				



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#### Test Band = Band V ANT0\_ TM1 Test Channel = high

Final	Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity				
1	1693.2000	44.86	24.99	-48.78	-74.19	-13.00	61.19	Horizontal				
2	2539.8000	45.25	27.50	-47.88	-70.39	-13.00	57.39	Horizontal				
3	3386.4000	44.39	28.68	-47.33	-69.52	-13.00	56.52	Horizontal				
4	4233.0000	44.40	29.83	-47.11	-68.14	-13.00	55.14	Horizontal				
5	5079.6000	44.04	31.59	-47.05	-66.68	-13.00	53.68	Horizontal				
6	5926.2000	43.88	32.43	-46.38	-65.33	-13.00	52.33	Horizontal				

Final	Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity				
1	1693.2000	45.30	24.99	-48.78	-73.75	-13.00	60.75	Vertical				
2	2539.8000	44.64	27.50	-47.88	-71.00	-13.00	58.00	Vertical				
3	3386.4000	43.98	28.68	-47.33	-69.93	-13.00	56.93	Vertical				
4	4233.0000	44.25	29.83	-47.11	-68.29	-13.00	55.29	Vertical				
5	5079.6000	44.24	31.59	-47.05	-66.48	-13.00	53.48	Vertical				
6	5926.2000	43.86	32.43	-46.38	-65.35	-13.00	52.35	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.

---End of Attachment---



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