

Report No.: SEWM2311000454RG01

Rev.: 01

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# Appendix B.4

## WCDMA Band IV



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## 1. Effective (Isotropic) Radiated Power Output Data

### 1.1 BandIV\_EIRP ANT4

#### 1.1.1 Test Result

Band: IV								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	22.66	-2.20	20.46	<=30	Pass
			1732.6	22.66	-2.20	20.46	<=30	Pass
			1752.6	22.72	-2.20	20.52	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain



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## 2. Frequency Stability

### 2.1 Band IV

#### 2.1.1 Test Result

Band: IV							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1712.4	20	3.5	18.632	0.0109	/	Pass
			3.91	18.575	0.0108	/	Pass
			4.35	18.125	0.0106	/	Pass
		-30	3.91	19.376	0.0113	/	Pass
		-20	3.91	18.740	0.0109	/	Pass
		-10	3.91	18.718	0.0109	/	Pass
		0	3.91	18.418	0.0108	/	Pass
		10	3.91	18.661	0.0109	/	Pass
		30	3.91	18.969	0.0111	/	Pass
		40	3.91	18.661	0.0109	/	Pass
	50	3.91	18.568	0.0108	/	Pass	
	1732.6	20	3.5	-3.877	-0.0022	/	Pass
			3.91	-3.655	-0.0021	/	Pass
			4.35	-3.290	-0.0019	/	Pass
		-30	3.91	-3.998	-0.0023	/	Pass
		-20	3.91	-3.684	-0.0021	/	Pass
		-10	3.91	-3.233	-0.0019	/	Pass
		0	3.91	-3.998	-0.0023	/	Pass
		10	3.91	-3.405	-0.0020	/	Pass
		30	3.91	-3.676	-0.0021	/	Pass
		40	3.91	-3.719	-0.0021	/	Pass
	50	3.91	-3.819	-0.0022	/	Pass	
	1752.6	20	3.5	-17.552	-0.0100	/	Pass
			3.91	-17.710	-0.0101	/	Pass
			4.35	-17.331	-0.0099	/	Pass
		-30	3.91	-17.481	-0.0100	/	Pass
		-20	3.91	-17.989	-0.0103	/	Pass
		-10	3.91	-18.053	-0.0103	/	Pass
		0	3.91	-17.960	-0.0102	/	Pass
		10	3.91	-17.610	-0.0100	/	Pass
30		3.91	-17.574	-0.0100	/	Pass	
40		3.91	-17.159	-0.0098	/	Pass	
50	3.91	-18.654	-0.0106	/	Pass		



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### 3. Field Strength of Spurious Radiation

**Test Band = WCDMA BandIV\_ TM1**  
**Test Channel = Low Channel \_ Worse ANT**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3424.8	44.63	-48.38	28.67	-70.34	-13.00	57.34	Horizontal
2	5137.2	42.59	-47.85	31.83	-68.69	-13.00	55.69	Horizontal
3	6849.6	42.39	-46.81	35.27	-64.41	-13.00	51.41	Horizontal
4	8562	39.76	-44.09	36.99	-62.60	-13.00	49.60	Horizontal
5	10274.4	37.84	-41.40	38.75	-60.07	-13.00	47.07	Horizontal
6	11986.8	35.87	-39.49	39.20	-59.68	-13.00	46.68	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3424.8	44.05	-48.38	28.67	-70.92	-13.00	57.92	Vertical
2	5137.2	43.37	-47.85	31.83	-67.91	-13.00	54.91	Vertical
3	6849.6	43.19	-46.81	35.27	-63.61	-13.00	50.61	Vertical
4	8562	39.30	-44.09	36.99	-63.06	-13.00	50.06	Vertical
5	10274.4	37.65	-41.40	38.75	-60.26	-13.00	47.26	Vertical
6	11986.8	35.66	-39.49	39.20	-59.89	-13.00	46.89	Vertical



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Test Band = WCDMA BandIV\_ TM1  
 Test Channel = Mid Channel \_ Worse ANT

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3465.2	43.58	-48.33	28.69	-71.32	-13.00	58.32	Horizontal
2	5197.8	42.85	-47.89	31.98	-68.32	-13.00	55.32	Horizontal
3	6930.4	41.78	-46.69	35.45	-64.72	-13.00	51.72	Horizontal
4	8663	39.73	-44.06	37.13	-62.47	-13.00	49.47	Horizontal
5	10395.6	38.21	-41.24	38.86	-59.43	-13.00	46.43	Horizontal
6	12128.2	36.95	-39.68	39.12	-58.87	-13.00	45.87	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3465.2	44.56	-48.33	28.69	-70.34	-13.00	57.34	Vertical
2	5197.8	43.11	-47.89	31.98	-68.06	-13.00	55.06	Vertical
3	6930.4	42.26	-46.69	35.45	-64.24	-13.00	51.24	Vertical
4	8663	39.88	-44.06	37.13	-62.32	-13.00	49.32	Vertical
5	10395.6	37.44	-41.24	38.86	-60.20	-13.00	47.20	Vertical
6	12128.2	36.44	-39.68	39.12	-59.38	-13.00	46.38	Vertical



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Test Band = WCDMA BandIV\_ TM1  
 Test Channel = High Channel \_ Worse ANT

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3505.2	44.11	-48.29	28.71	-70.73	-13.00	57.73	Horizontal
2	5257.8	43.25	-47.83	32.12	-67.72	-13.00	54.72	Horizontal
3	7010.4	42.28	-46.52	35.63	-63.87	-13.00	50.87	Horizontal
4	8763	41.14	-44.04	37.27	-60.89	-13.00	47.89	Horizontal
5	10515.6	37.18	-40.74	38.96	-59.86	-13.00	46.86	Horizontal
6	12268.2	36.07	-39.76	39.04	-59.91	-13.00	46.91	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3505.2	44.71	-48.29	28.71	-70.13	-13.00	57.13	Vertical
2	5257.8	43.11	-47.83	32.12	-67.86	-13.00	54.86	Vertical
3	7010.4	41.95	-46.52	35.63	-64.20	-13.00	51.20	Vertical
4	8763	40.16	-44.04	37.27	-61.87	-13.00	48.87	Vertical
5	10515.6	37.92	-40.74	38.96	-59.12	-13.00	46.12	Vertical
6	12268.2	35.91	-39.76	39.04	-60.07	-13.00	47.07	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) - Pre-amplifier (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 BandIV\_OBW

#### 4.1.1 Test Result

Band: IV						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.170	/	Pass
			1732.6	4.177	/	Pass
			1752.6	4.175	/	Pass

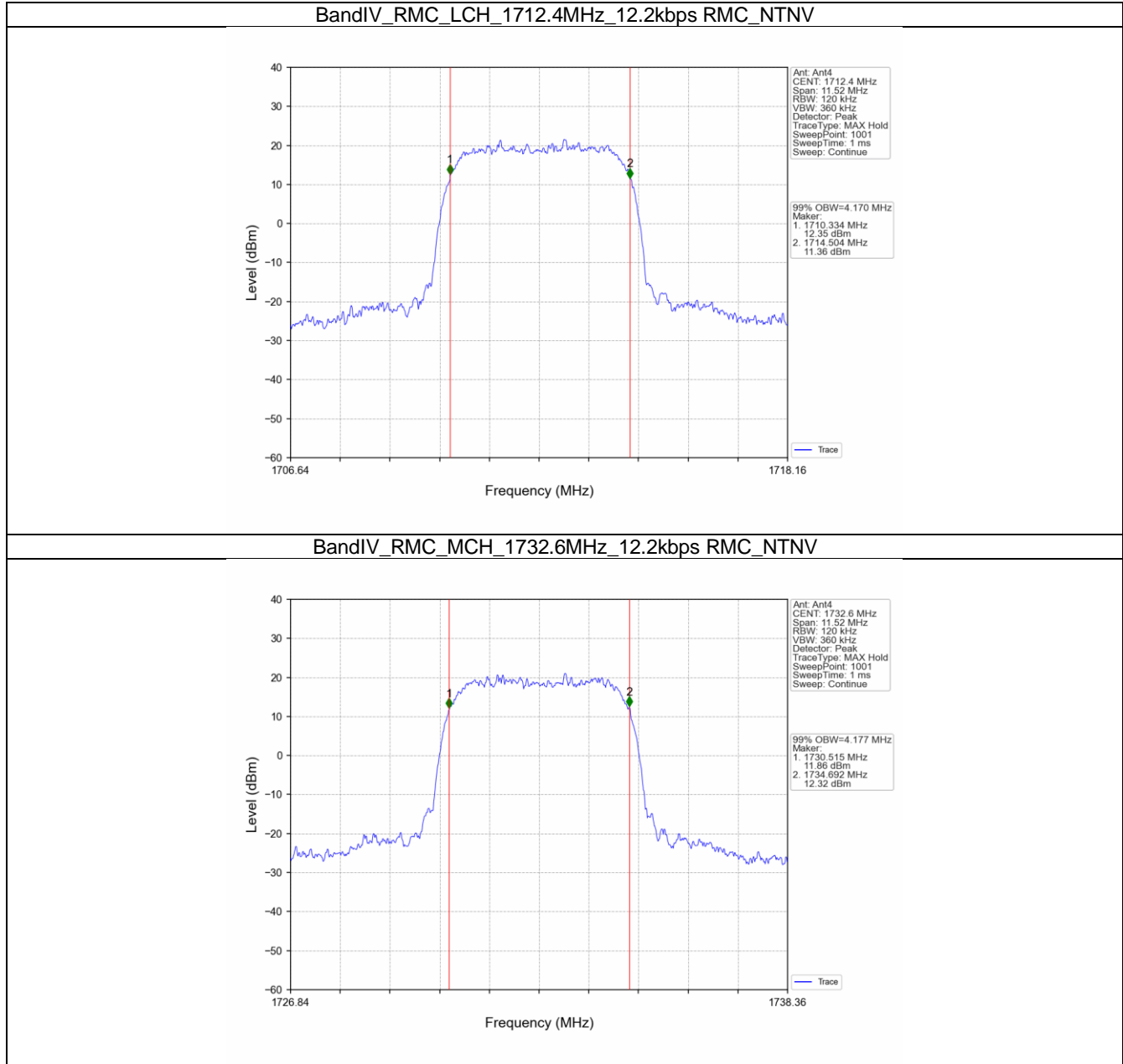


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4.1.2 Test Graph



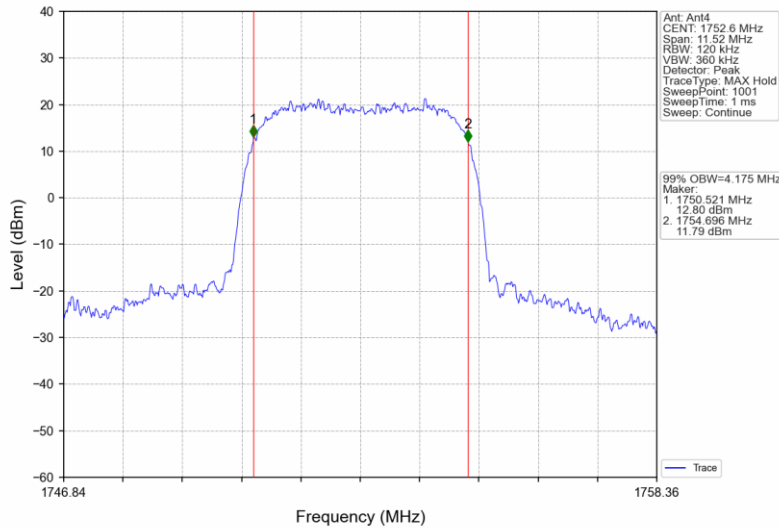
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BandIV\_RMC\_HCH\_1752.6MHz\_12.2kbps RMC\_NTNV



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## 4.2 BandIV\_XDB

### 4.2.1 Test Result

Band: IV						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.765	/	Pass
			1732.6	4.762	/	Pass
			1752.6	4.768	/	Pass

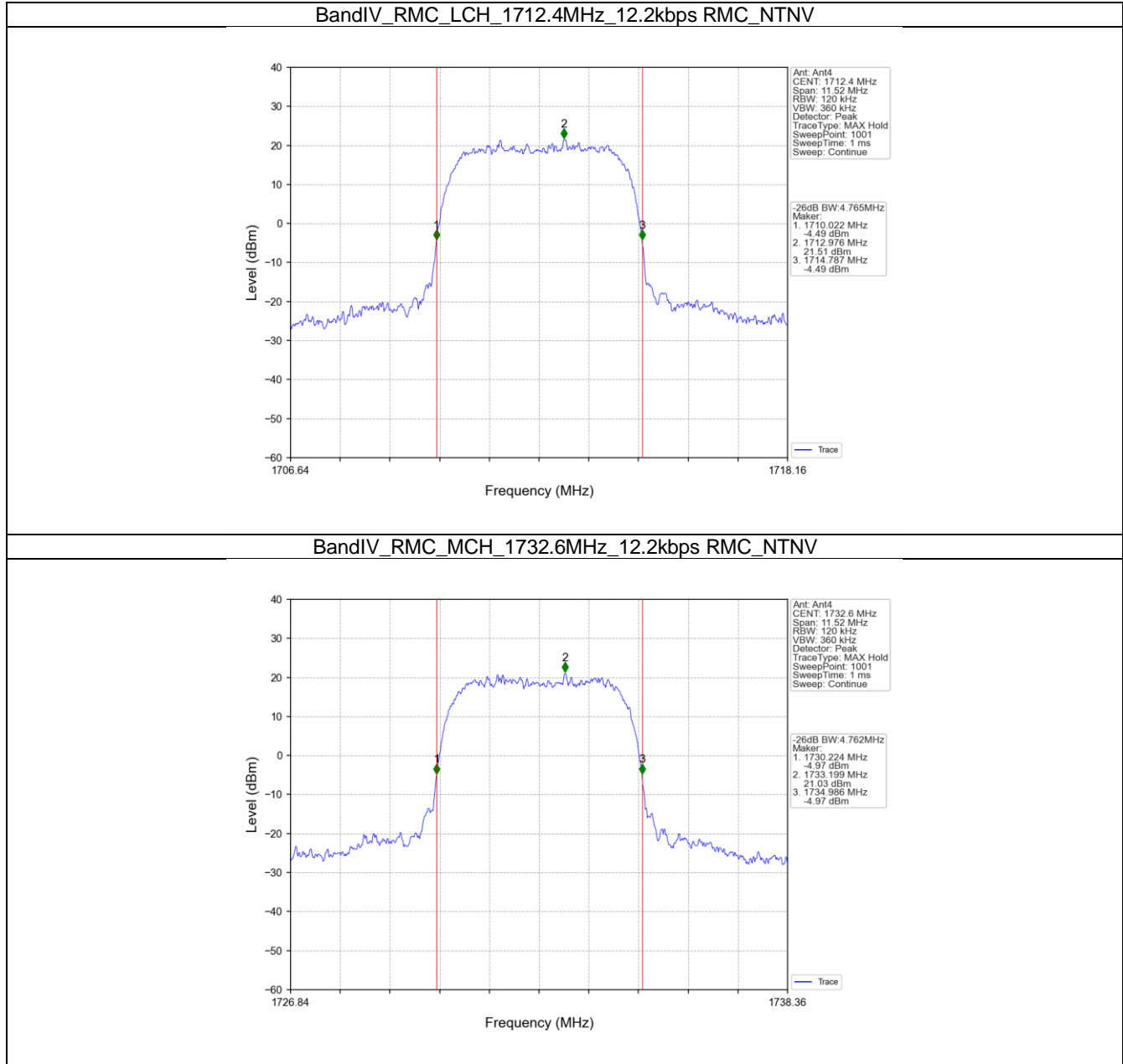


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4.2.2 Test Graph

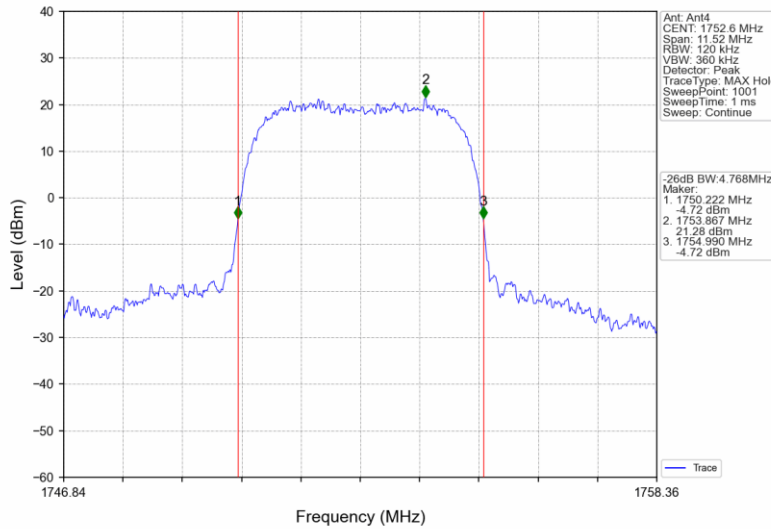


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BandIV\_RMC\_HCH\_1752.6MHz\_12.2kbps RMC\_NTNV



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## 5. Peak-Average Ratio

### 5.1 BandIV

#### 5.1.1 Test Result

Band: IV						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	2.79	<=13	Pass
			1732.6	2.95	<=13	Pass
			1752.6	2.72	<=13	Pass

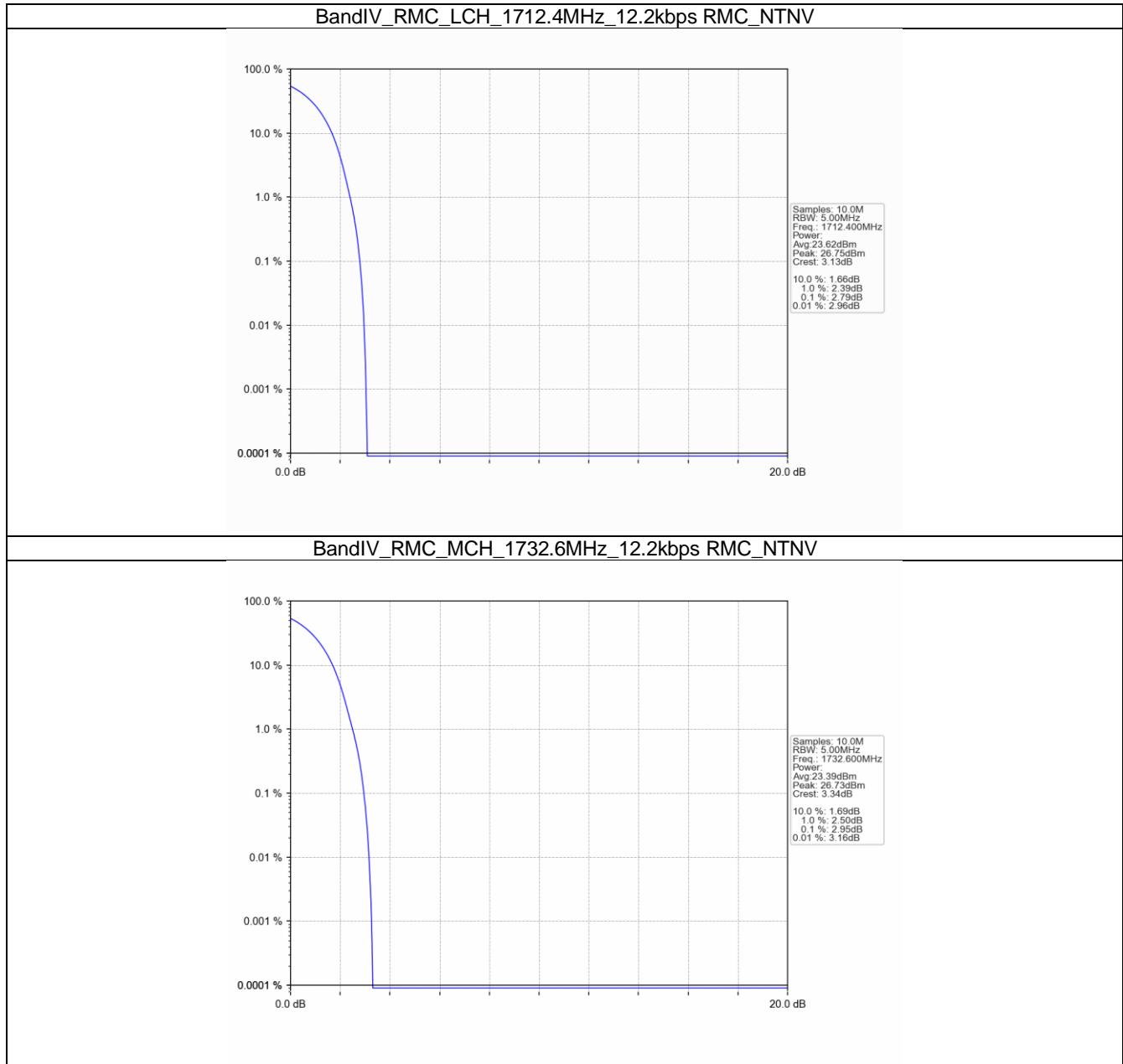


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5.1.2 Test Graph



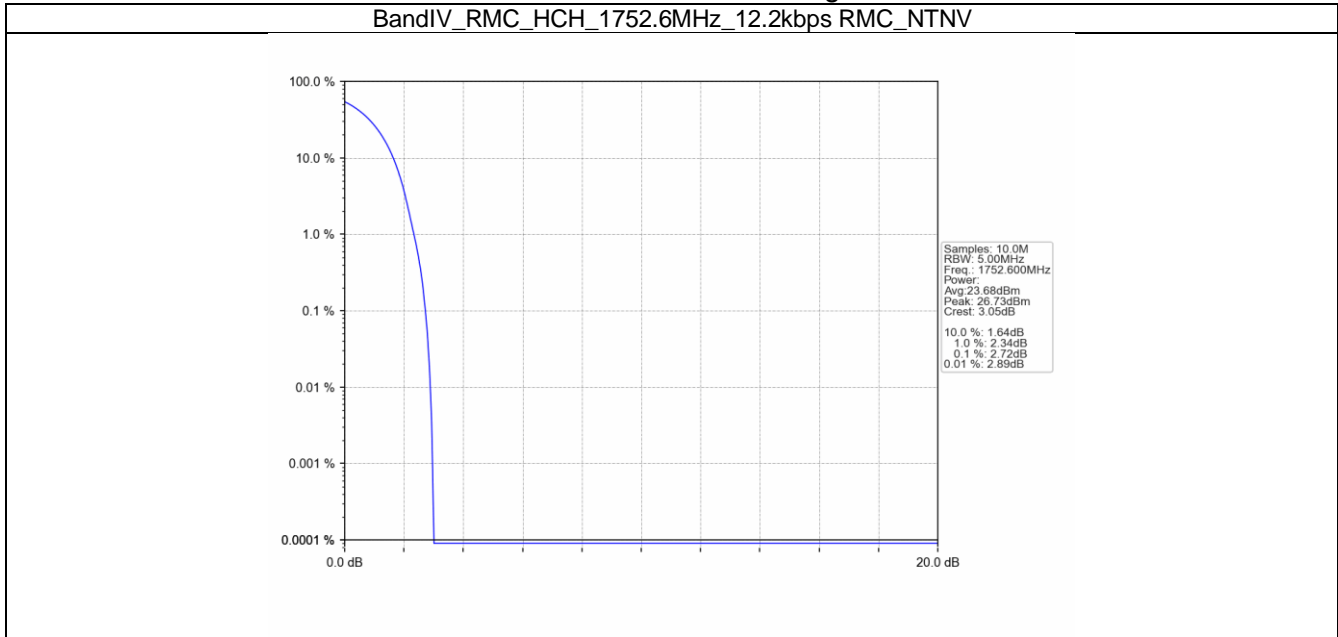
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BandIV\_RMC\_HCH\_1752.6MHz\_12.2kbps RMC\_NTNV



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 Rev.: 01  
 Page: 16 of 20

## 6. Spurious Emission & Band Edges

### 6.1 BandIV

#### 6.1.1 Test Result

Band: IV						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	Refer To Test Graph		Pass
			1732.6	Refer To Test Graph		Pass
			1752.6	Refer To Test Graph		Pass

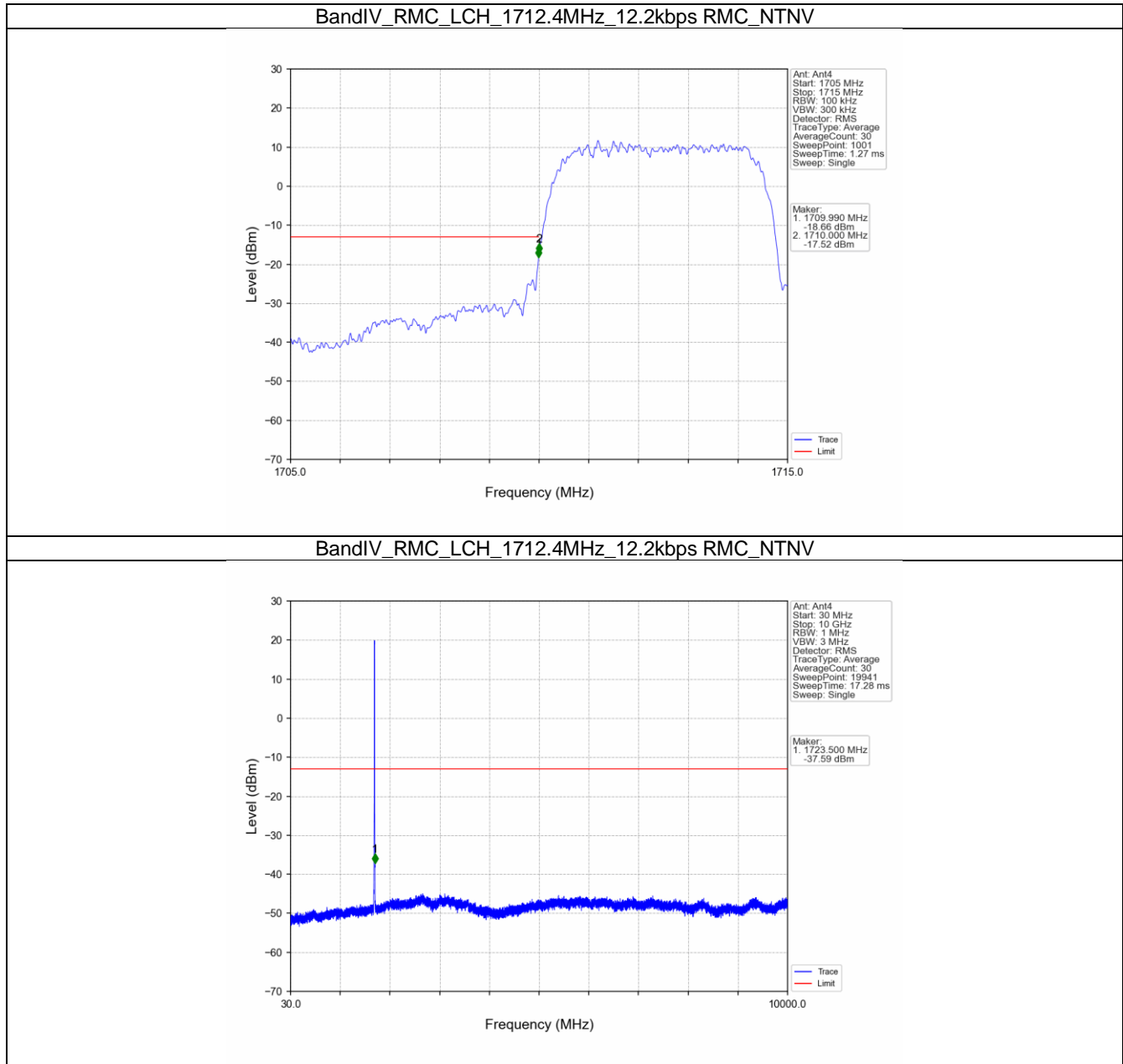


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6.1.2 Test Graph

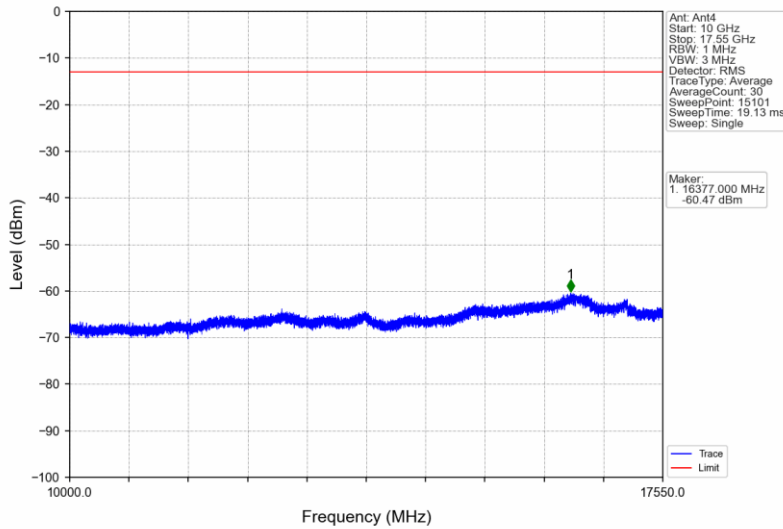


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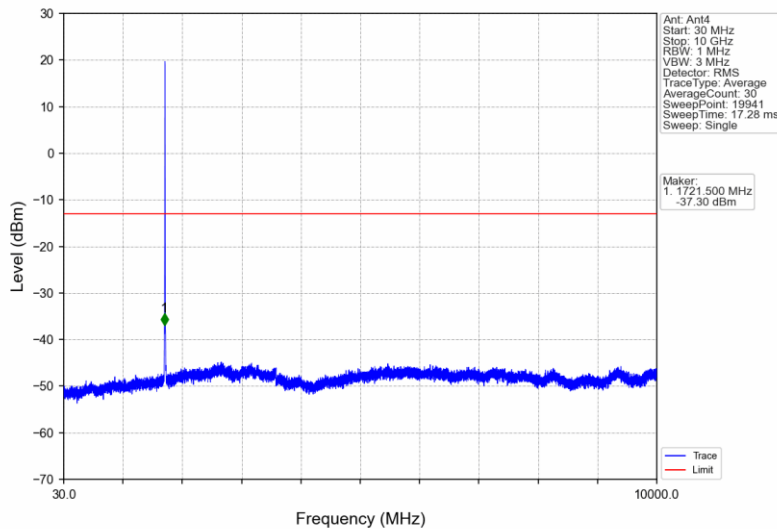
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BandIV\_RMC\_LCH\_1712.4MHz\_12.2kbps RMC\_NTNV



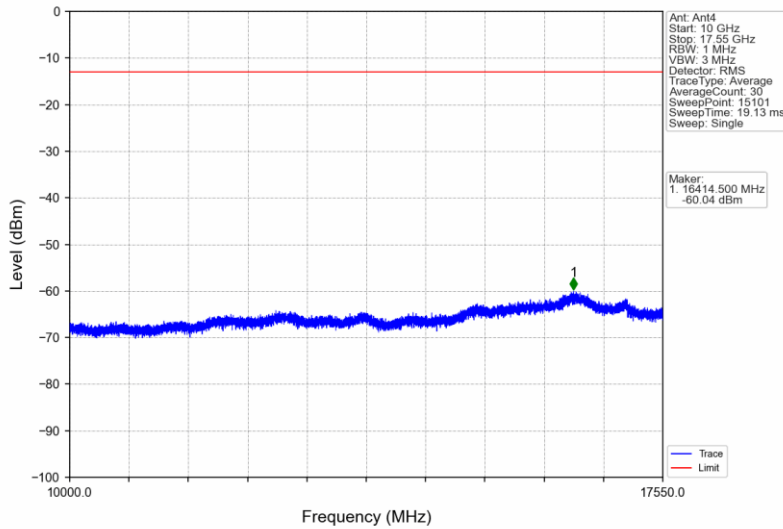
BandIV\_RMC\_MCH\_1732.6MHz\_12.2kbps RMC\_NTNV



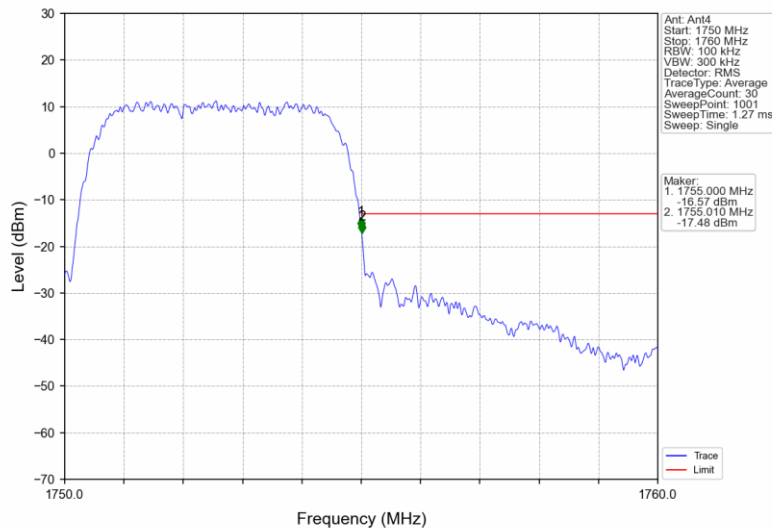
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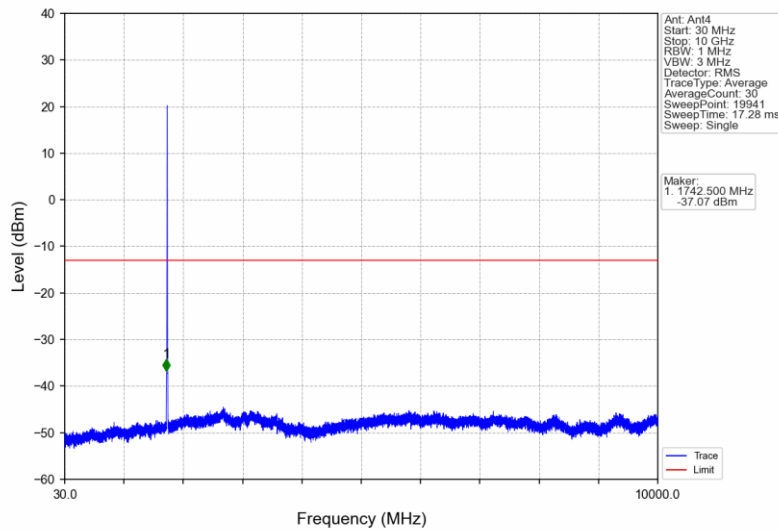


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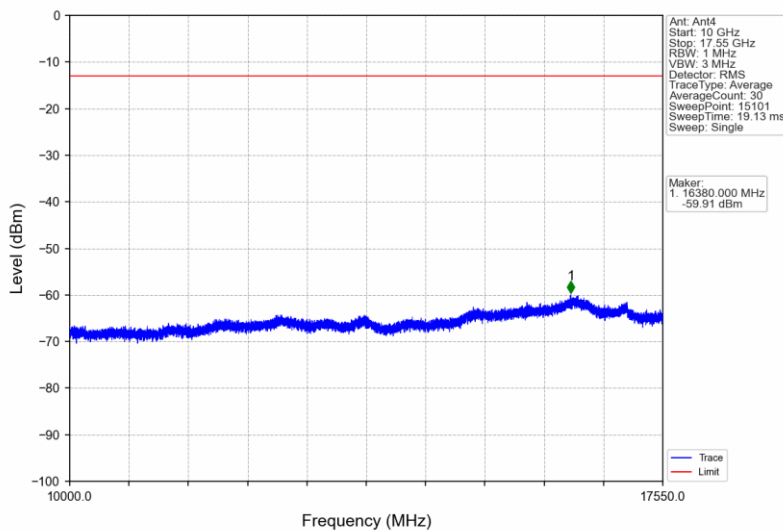
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