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# Appendix B.15

## WCDMA Band IV



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# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 Band IV\_EIRPAnt1

### 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	23.63	0.28	23.91	<=30	Pass
			1732.6	23.56	0.28	23.84	<=30	Pass
			1752.6	23.62	0.28	23.9	<=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	
RMC	1712.4	20	11.8	5.350	0.0031	Pass
			12	5.350	0.0031	Pass
			13.2	5.450	0.0032	Pass
		-30	12	5.443	0.0032	Pass
		-20	12	5.572	0.0033	Pass
		-10	12	5.844	0.0034	Pass
		0	12	5.543	0.0032	Pass
		10	12	5.836	0.0034	Pass
		30	12	5.329	0.0031	Pass
		40	12	5.686	0.0033	Pass
	50	12	6.359	0.0037	Pass	
	1732.6	20	11.8	-1.330	-0.0008	Pass
			12	-1.466	-0.0008	Pass
			13.2	-0.737	-0.0004	Pass
		-30	12	-0.873	-0.0005	Pass
		-20	12	-1.316	-0.0008	Pass
		-10	12	-1.023	-0.0006	Pass
		0	12	-0.715	-0.0004	Pass
		10	12	-1.523	-0.0009	Pass
		30	12	-0.122	-0.0001	Pass
		40	12	-1.009	-0.0006	Pass
	50	12	-0.207	-0.0001	Pass	
	1752.6	20	11.8	-0.551	-0.0003	Pass
			12	-0.651	-0.0004	Pass
			13.2	-1.166	-0.0007	Pass
		-30	12	-1.295	-0.0007	Pass
		-20	12	-1.466	-0.0008	Pass
		-10	12	-1.109	-0.0006	Pass
		0	12	-1.545	-0.0009	Pass
		10	12	-0.901	-0.0005	Pass
30		12	-1.159	-0.0007	Pass	
40		12	-0.522	-0.0003	Pass	
50	12	-0.651	-0.0004	Pass		



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### 3. Field Strength of Spurious Radiation

**Test Band = WCDMA Band IV\_ 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	3424.8	38.85	-43.25	29.59	-70.08	-13.00	57.08	Horizontal
2	5137.2	37.14	-41.10	33.17	-66.05	-13.00	53.05	Horizontal
3	6849.6	35.52	-38.40	35.94	-62.20	-13.00	49.20	Horizontal
4	8562	33.81	-35.32	37.38	-59.39	-13.00	46.39	Horizontal
5	10274.4	30.90	-32.18	38.04	-58.50	-13.00	45.50	Horizontal
6	11986.8	29.59	-29.64	38.40	-56.91	-13.00	43.91	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3424.8	39.28	-43.25	29.59	-69.65	-13.00	56.65	Vertical
2	5137.2	37.44	-41.10	33.17	-65.75	-13.00	52.75	Vertical
3	6849.6	36.37	-38.40	35.94	-61.35	-13.00	48.35	Vertical
4	8562	33.48	-35.32	37.38	-59.72	-13.00	46.72	Vertical
5	10274.4	30.25	-32.18	38.04	-59.15	-13.00	46.15	Vertical
6	11986.8	30.09	-29.64	38.40	-56.41	-13.00	43.41	Vertical



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**Test Band = WCDMA Band IV\_ 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	3465.2	37.99	-43.16	29.59	-70.84	-13.00	57.84	Horizontal
2	5197.8	37.17	-40.82	33.16	-65.75	-13.00	52.75	Horizontal
3	6930.4	35.00	-38.35	35.97	-62.63	-13.00	49.63	Horizontal
4	8663	32.41	-35.33	37.43	-60.75	-13.00	47.75	Horizontal
5	10395.6	28.83	-31.48	38.10	-59.81	-13.00	46.81	Horizontal
6	12128.2	28.71	-29.39	38.55	-57.38	-13.00	44.38	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3465.2	38.05	-43.16	29.59	-70.78	-13.00	57.78	Vertical
2	5197.8	36.71	-40.82	33.16	-66.21	-13.00	53.21	Vertical
3	6930.4	35.45	-38.35	35.97	-62.18	-13.00	49.18	Vertical
4	8663	32.02	-35.33	37.43	-61.14	-13.00	48.14	Vertical
5	10395.6	29.31	-31.48	38.10	-59.33	-13.00	46.33	Vertical
6	12128.2	29.63	-29.39	38.55	-56.46	-13.00	43.46	Vertical



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**Test Band = WCDMA Band IV\_ 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	3505.2	37.86	-43.06	29.62	-70.84	-13.00	57.84	Horizontal
2	5257.8	36.49	-40.87	33.15	-66.49	-13.00	53.49	Horizontal
3	7010.4	34.72	-38.35	36.01	-62.88	-13.00	49.88	Horizontal
4	8763	32.45	-35.10	37.48	-60.42	-13.00	47.42	Horizontal
5	10515.6	29.01	-31.20	38.16	-59.29	-13.00	46.29	Horizontal
6	12268.2	28.84	-29.90	38.72	-57.60	-13.00	44.60	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3505.2	37.30	-43.06	29.62	-71.40	-13.00	58.40	Vertical
2	5257.8	36.09	-40.87	33.15	-66.89	-13.00	53.89	Vertical
3	7010.4	35.11	-38.35	36.01	-62.49	-13.00	49.49	Vertical
4	8763	32.03	-35.10	37.48	-60.84	-13.00	47.84	Vertical
5	10515.6	29.74	-31.20	38.16	-58.56	-13.00	45.56	Vertical
6	12268.2	28.72	-29.90	38.72	-57.72	-13.00	44.72	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 IV\_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	4.122	/	Pass
			1732.6	4.117	/	Pass
			1752.6	4.137	/	Pass

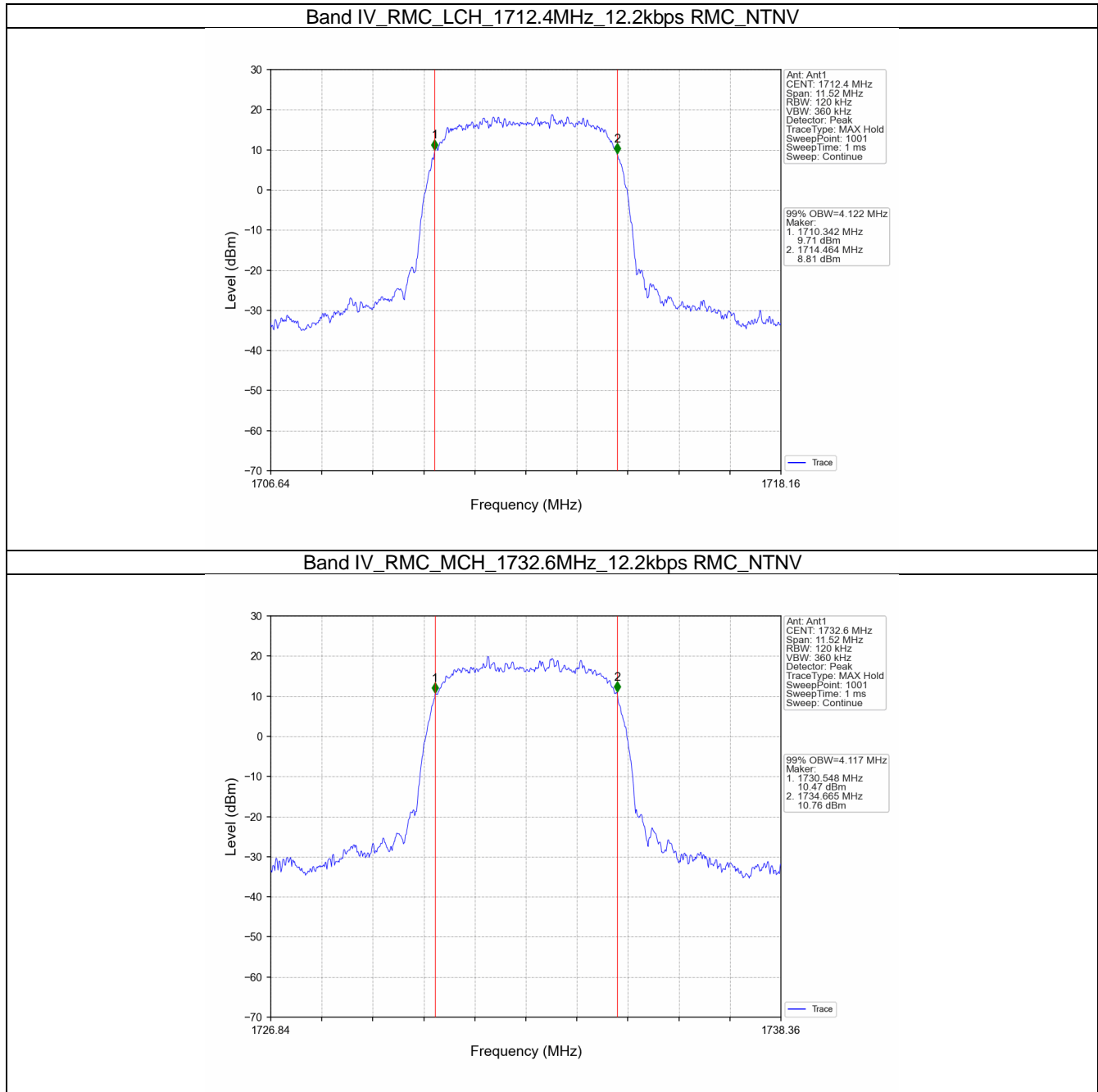


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4.1.2 Test Graph

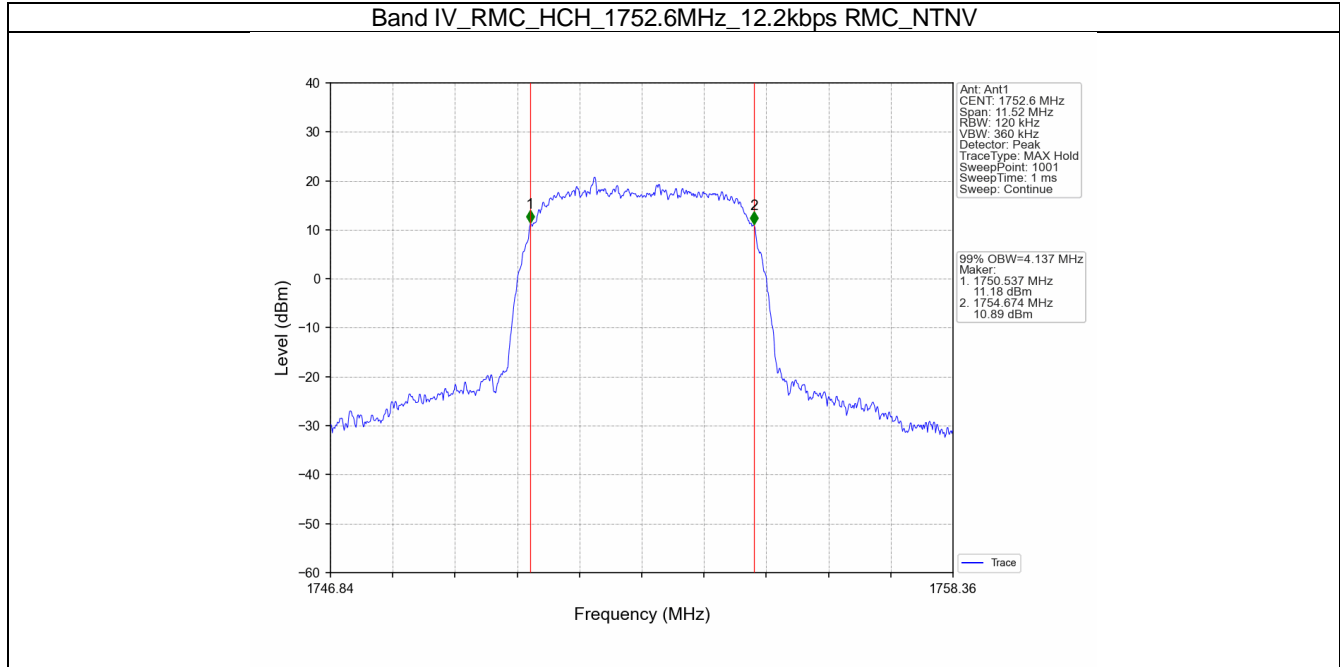


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## 4.2 Band IV\_XDB

### 4.2.1 Test Result

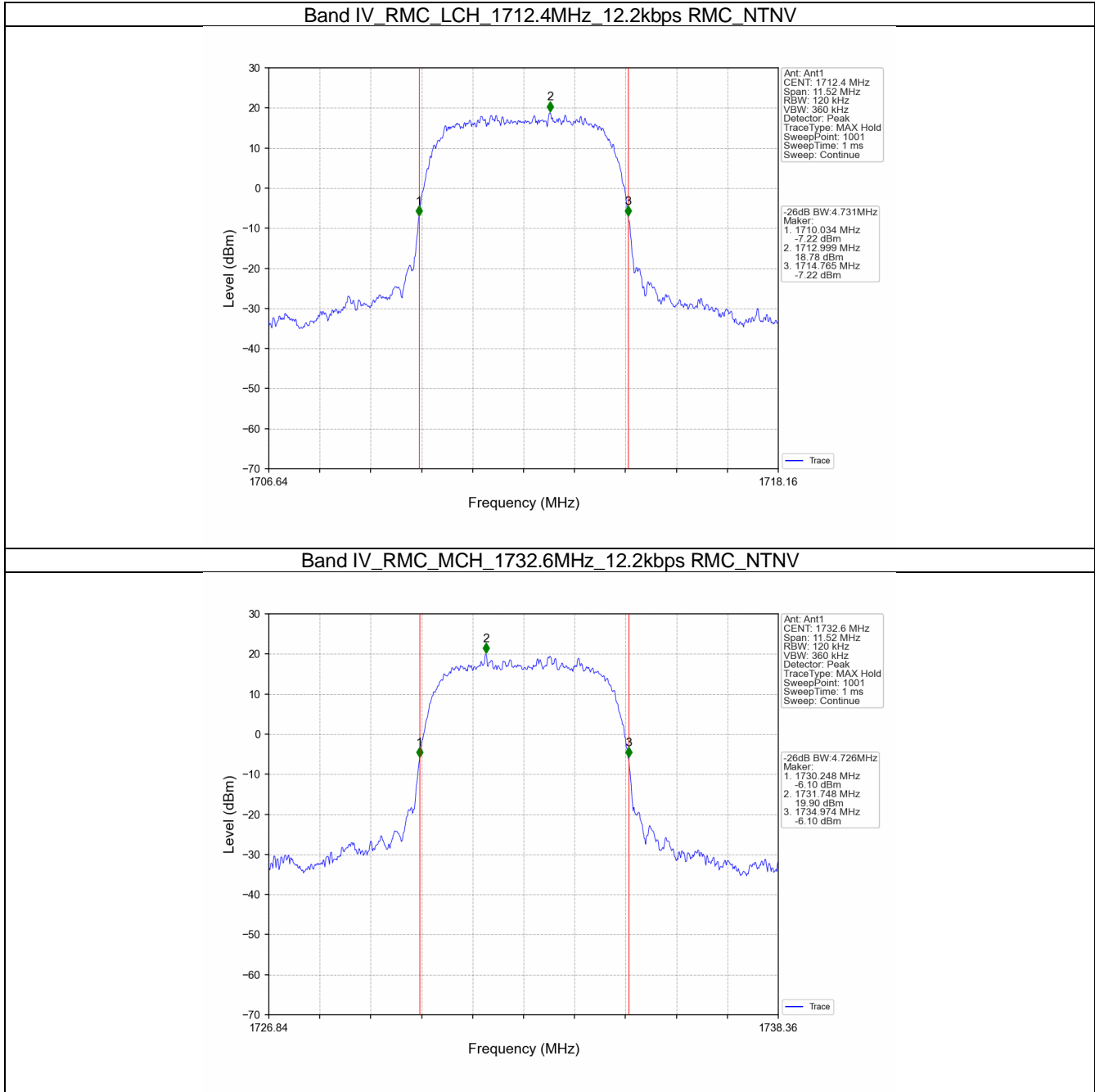
Band IV						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.731	/	Pass
			1732.6	4.726	/	Pass
			1752.6	4.727	/	Pass



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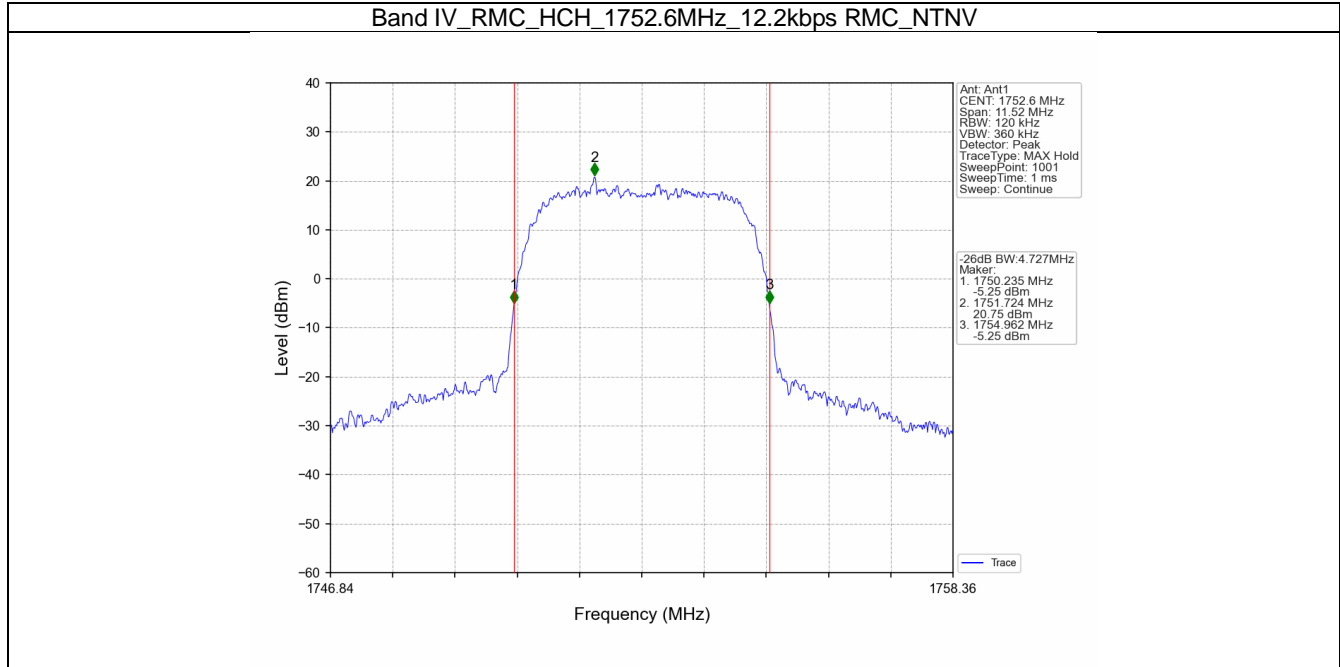
4.2.2 Test Graph



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## 5. Peak-Average Ratio

### 5.1 Band IV

#### 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	2.92	<=13	Pass
			1732.6	2.98	<=13	Pass
			1752.6	2.79	<=13	Pass

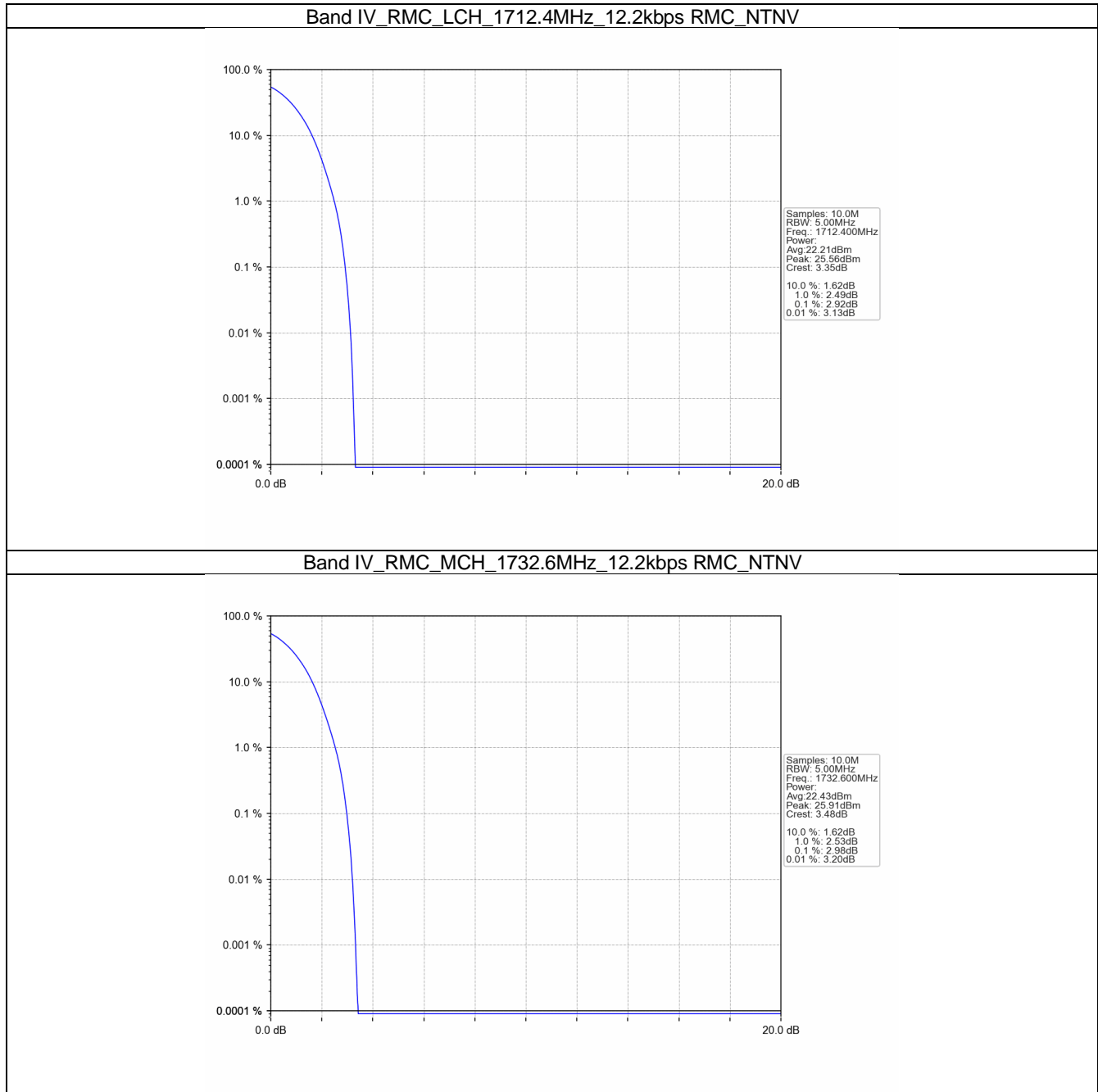


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5.1.2 Test Graph

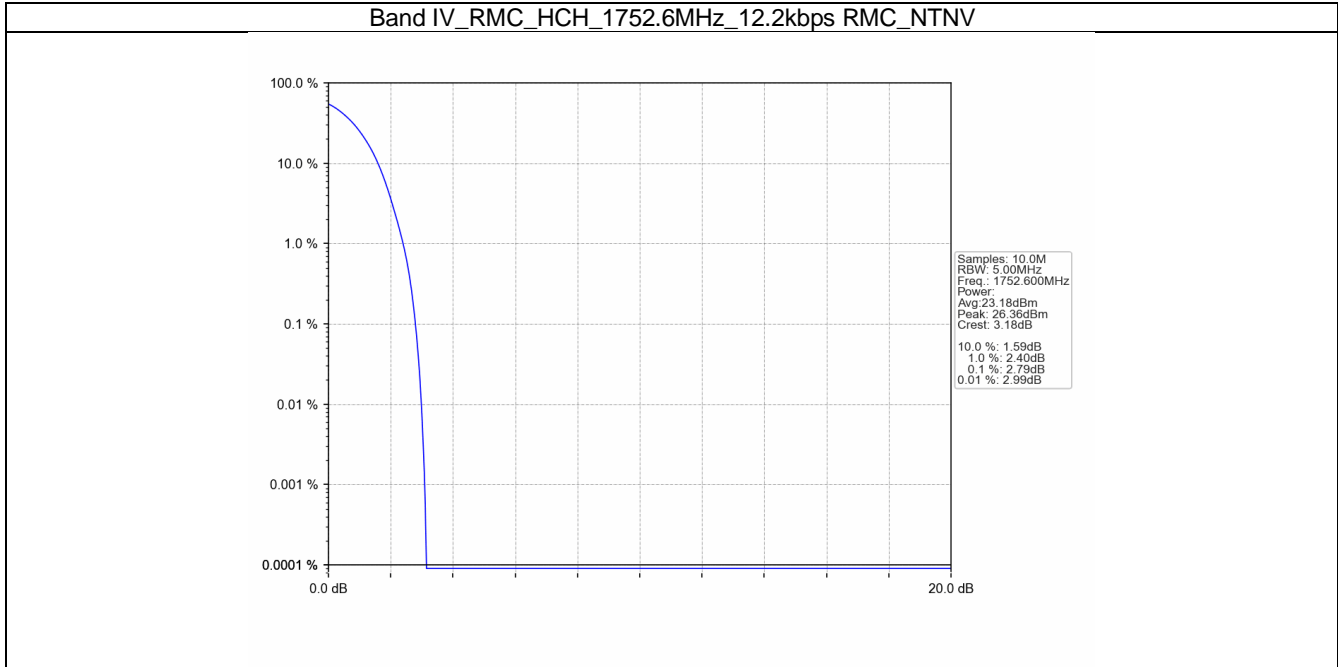


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Band IV\_RMC\_HCH\_1752.6MHz\_12.2kbps RMC\_NTNV



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## 6. Spurious Emission & Band Edges

### 6.1 Band IV

#### 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

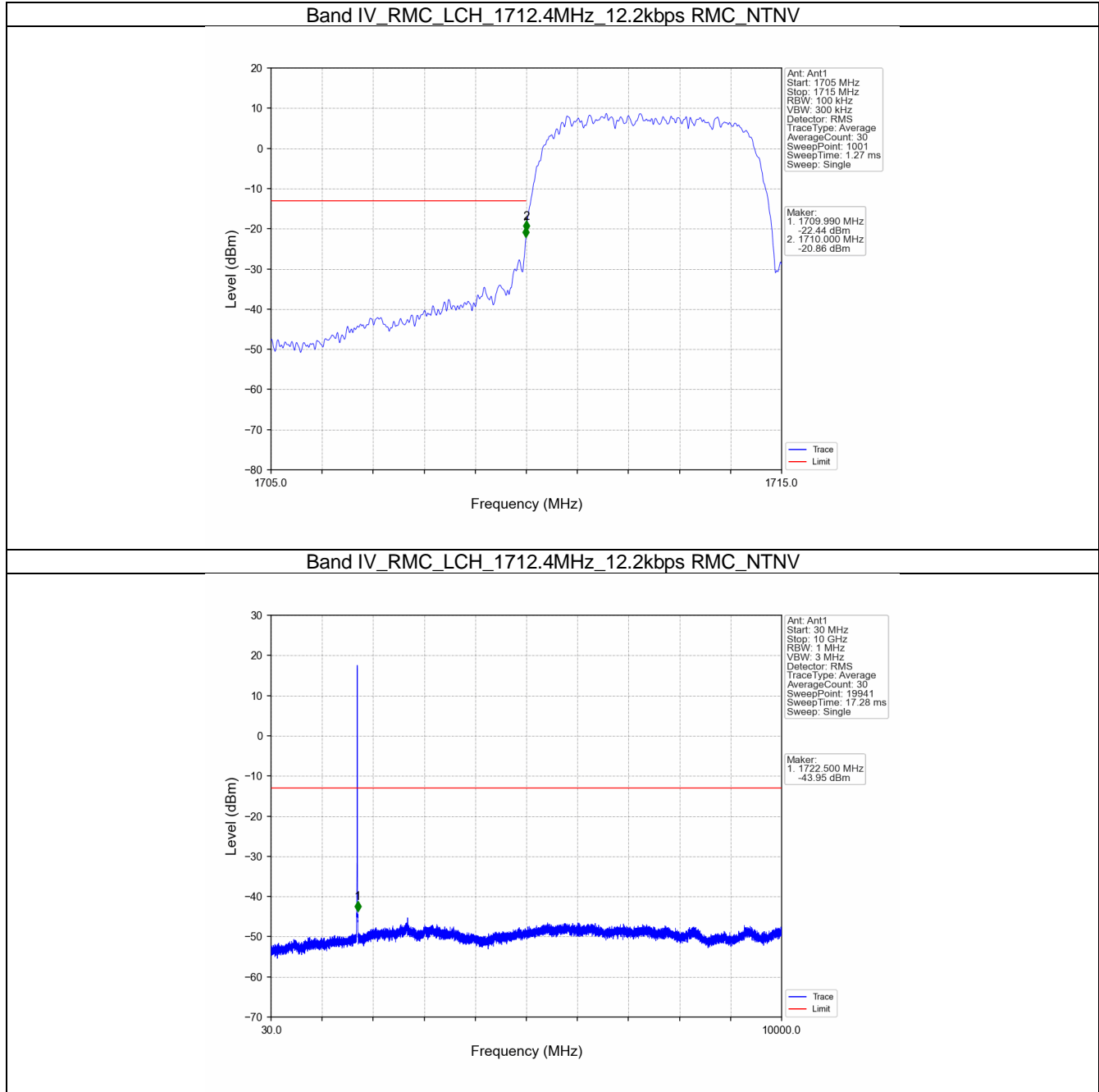


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6.1.2 Test Graph

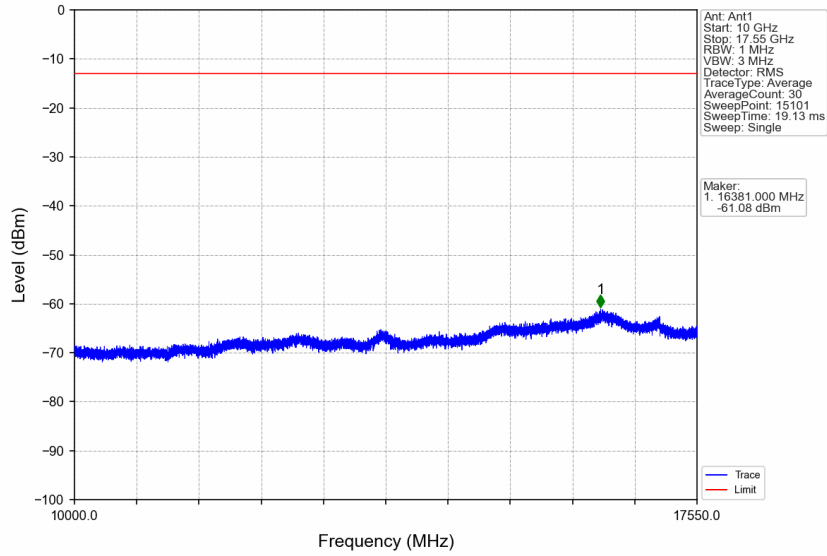


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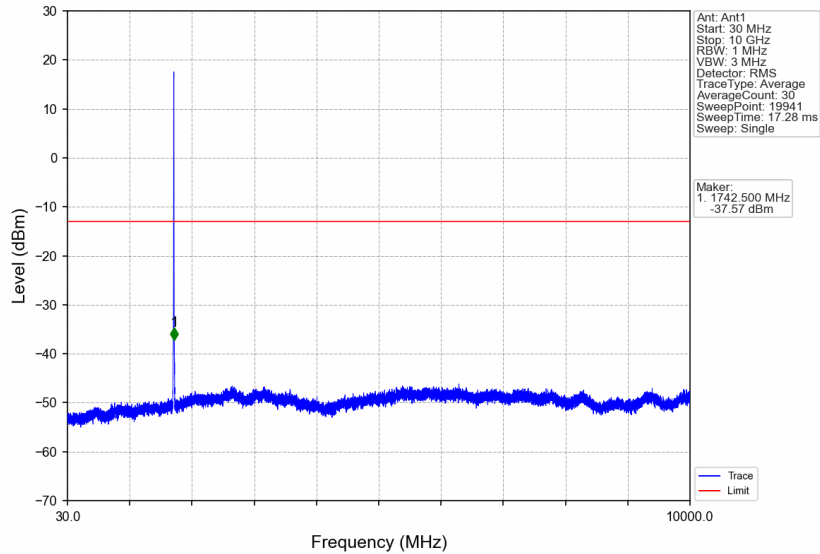
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Band IV\_RMC\_LCH\_1712.4MHz\_12.2kbps RMC\_NTNV



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

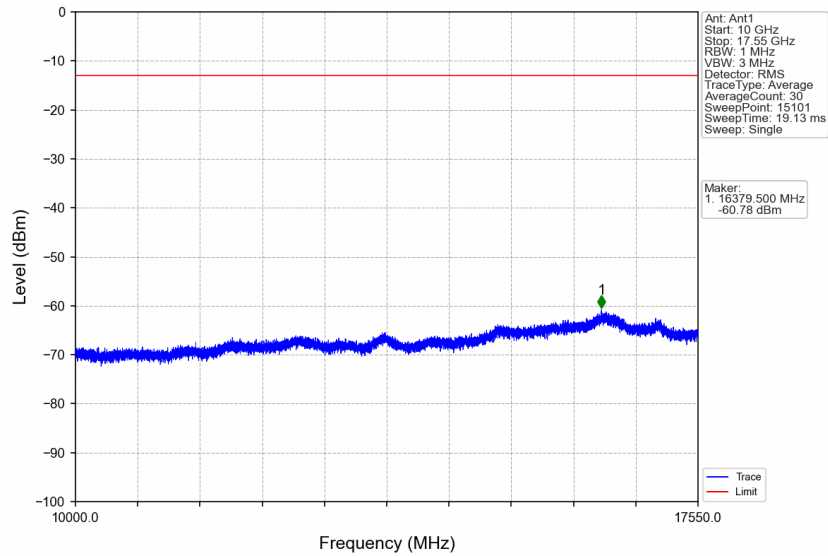


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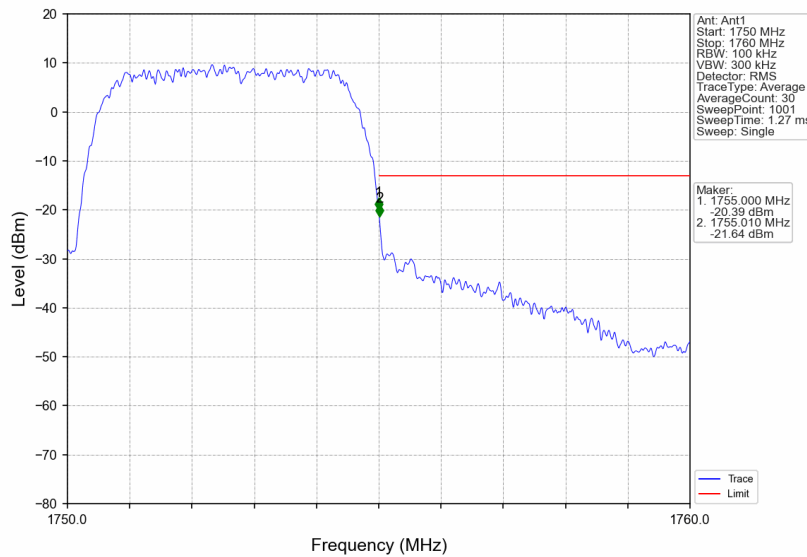
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Band IV\_RMC\_HCH\_1752.6MHz\_12.2kbps RMC\_NTNV

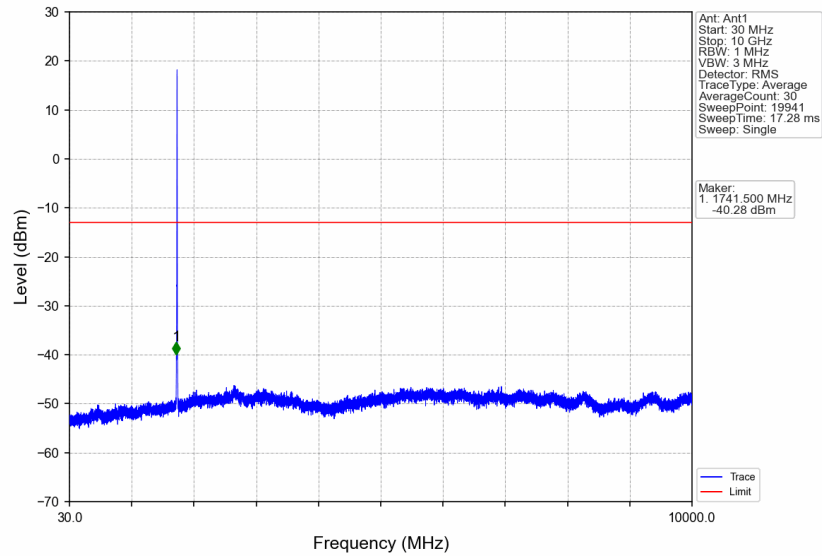


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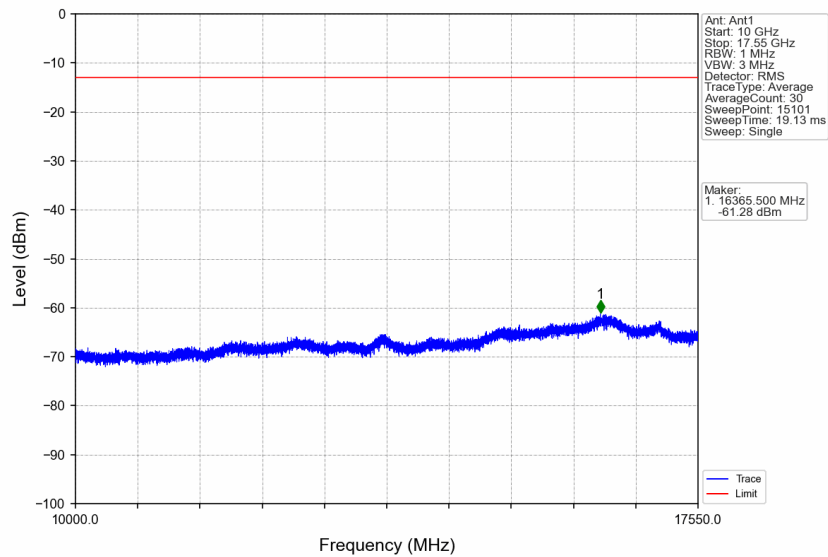
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Band IV\_RMC\_HCH\_1752.6MHz\_12.2kbps RMC\_NTNV



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



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