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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_EIRP Ant1

1.1.1 Test Result

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	0.0032	Pass
			-20	12	0.0033	Pass
		-10	12	5.844	0.0034	Pass
			0	5.543	0.0032	Pass
			10	5.836	0.0034	Pass
			30	5.329	0.0031	Pass
			40	5.686	0.0033	Pass
	1732.6	20	50	12	0.0037	Pass
			11.8	-1.330	-0.0008	Pass
			12	-1.466	-0.0008	Pass
			13.2	-0.737	-0.0004	Pass
			-30	12	-0.873	Pass
		-20	-20	-1.316	-0.0008	Pass
			-10	12	-1.023	Pass
			0	12	-0.715	Pass
			10	12	-1.523	Pass
			30	12	-0.122	Pass
	1752.6	20	40	12	-0.009	Pass
			50	12	-0.207	Pass
			11.8	-0.551	-0.0003	Pass
			12	-0.651	-0.0004	Pass
			13.2	-1.166	-0.0007	Pass
		-30	-30	12	-1.295	Pass
			-20	12	-1.466	Pass
			-10	12	-1.109	Pass
			0	12	-1.545	Pass
			10	12	-0.901	Pass
		-20	30	12	-1.159	Pass
			40	12	-0.522	Pass
			50	12	-0.651	Pass
					-0.0004	Pass
						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 [dB μ V]	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 [dB μ V]	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 [dB μ V]	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 [dB μ V]	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 [dB μ V]	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 [dB μ V]	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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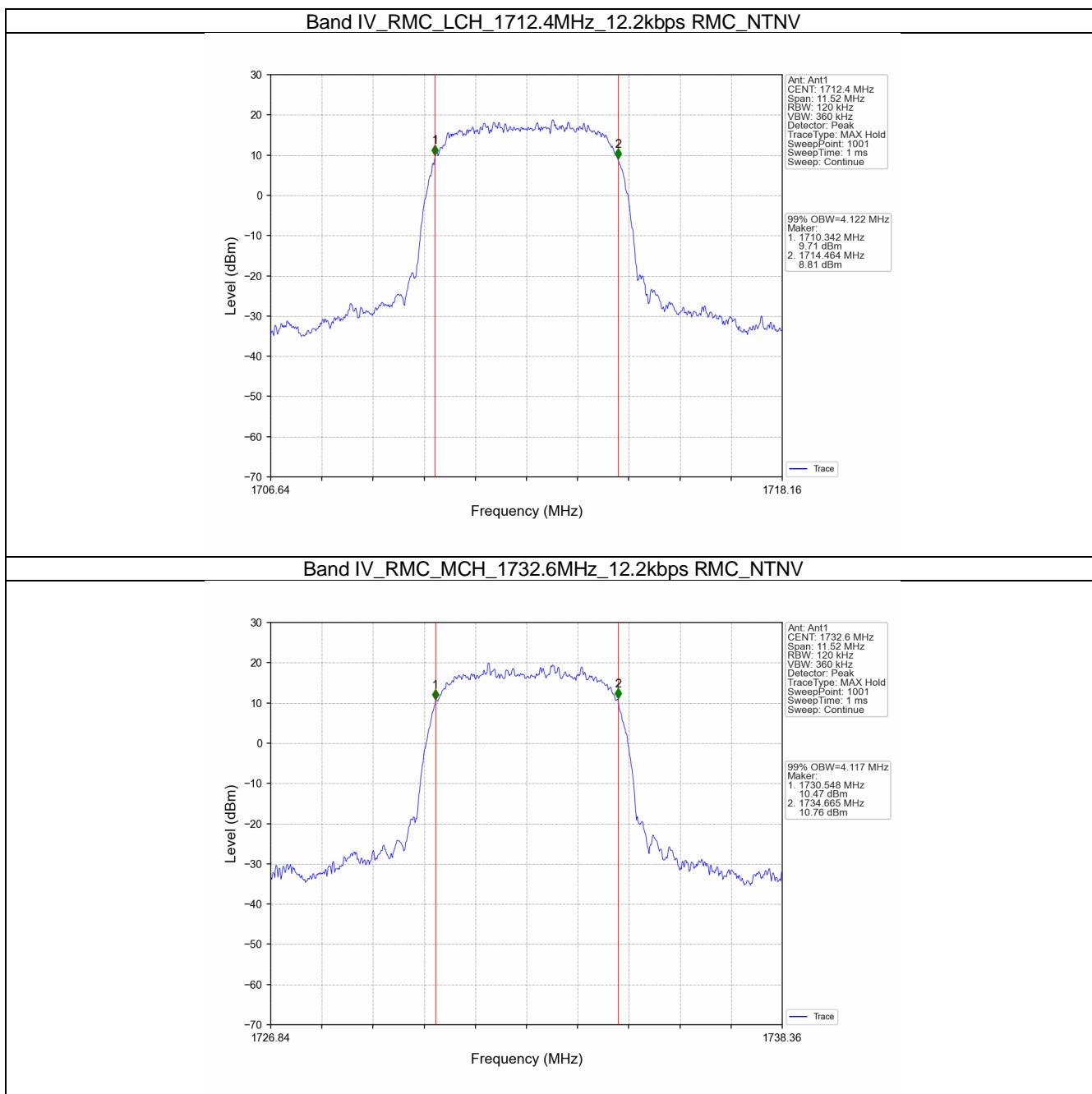
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4.1.2 Test Graph



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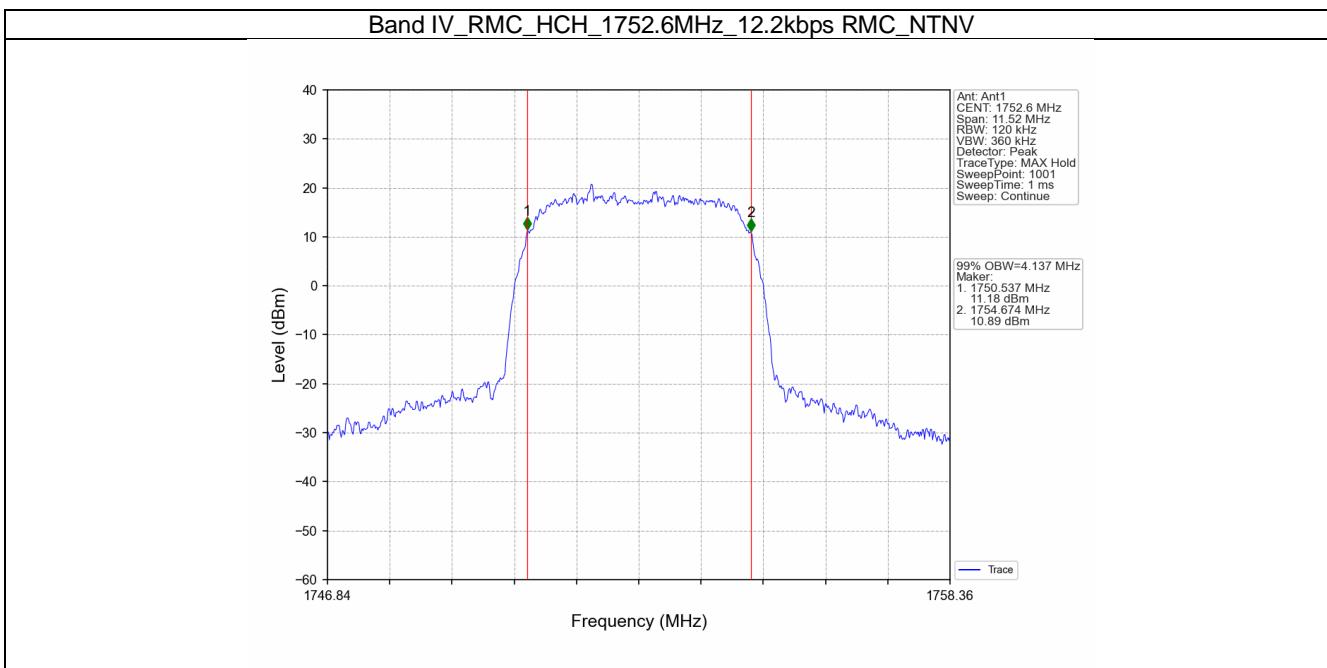
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4.2 Band IV_XDB

4.2.1 Test Result

Band IV						Verdict	
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)			
	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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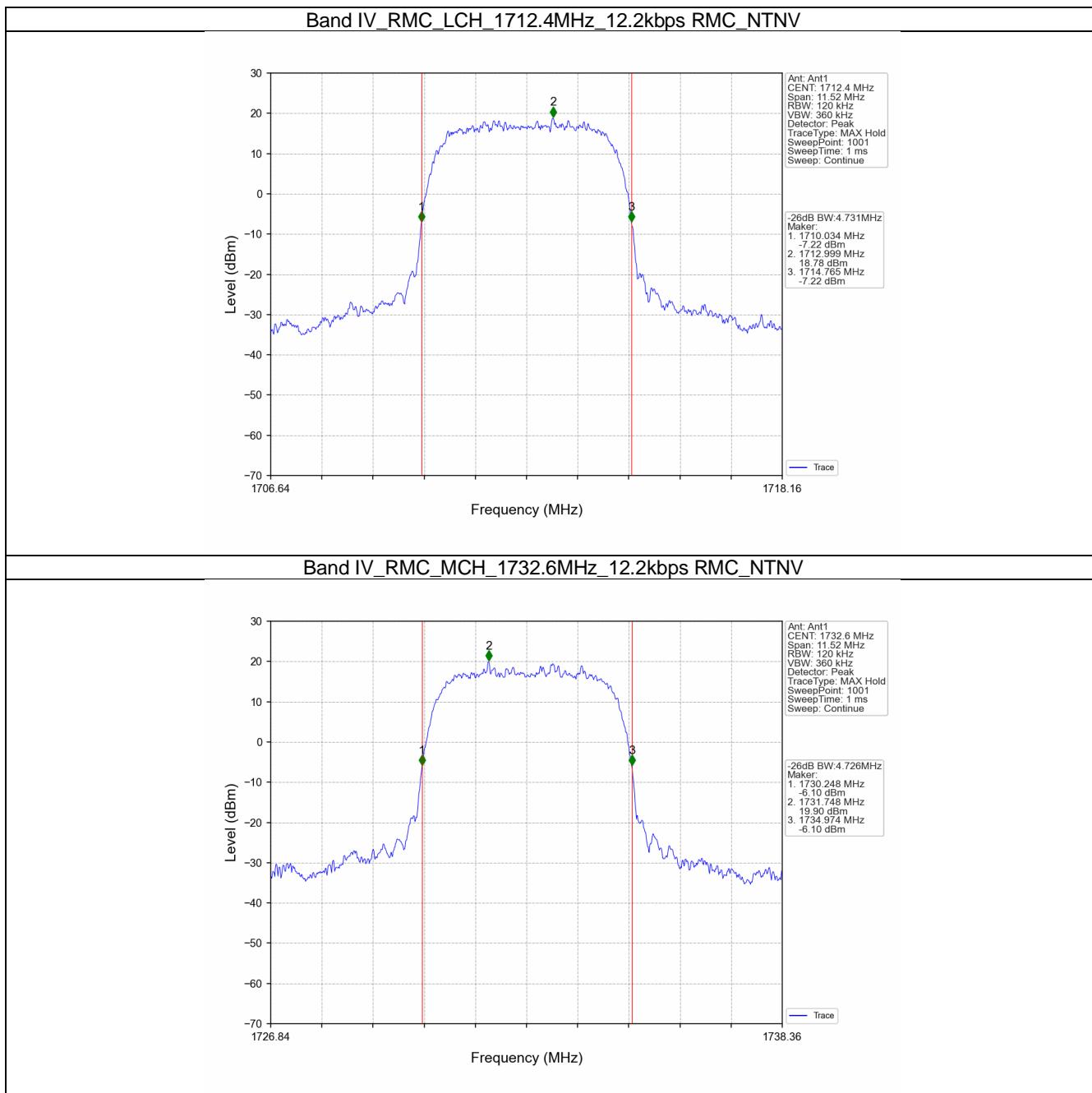
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4.2.2 Test Graph



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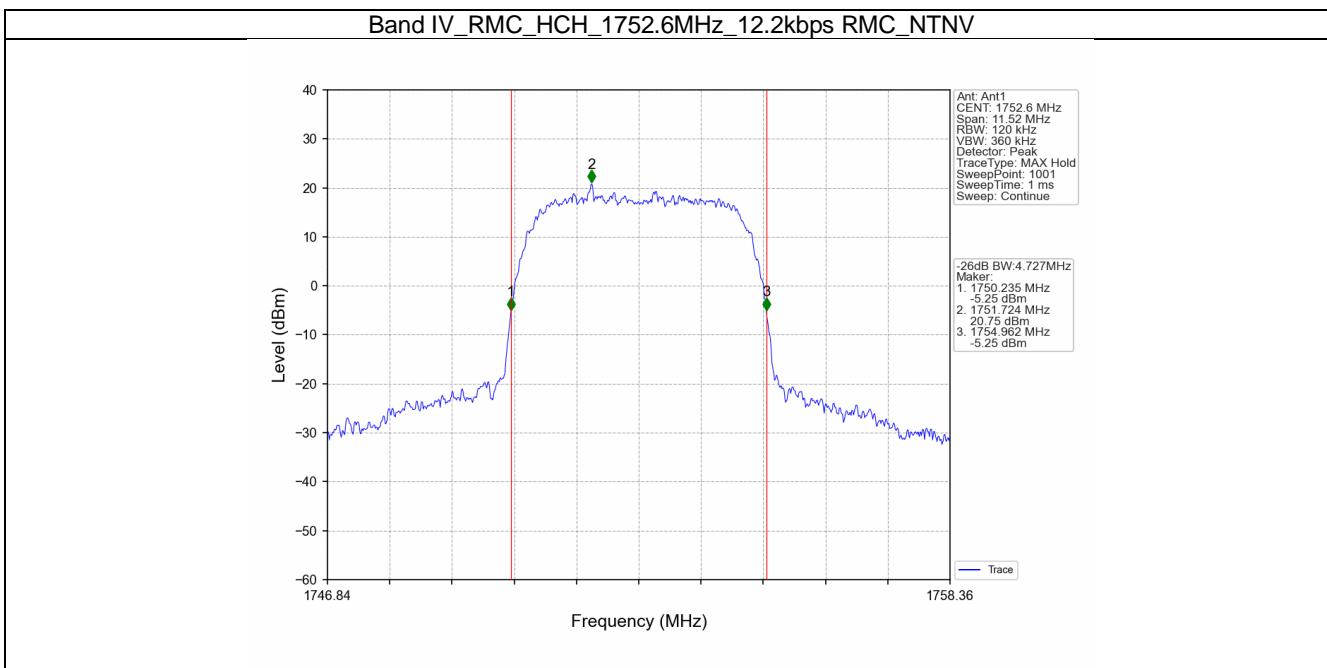
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5. Peak-Average Ratio

5.1 Band IV

5.1.1 Test Result

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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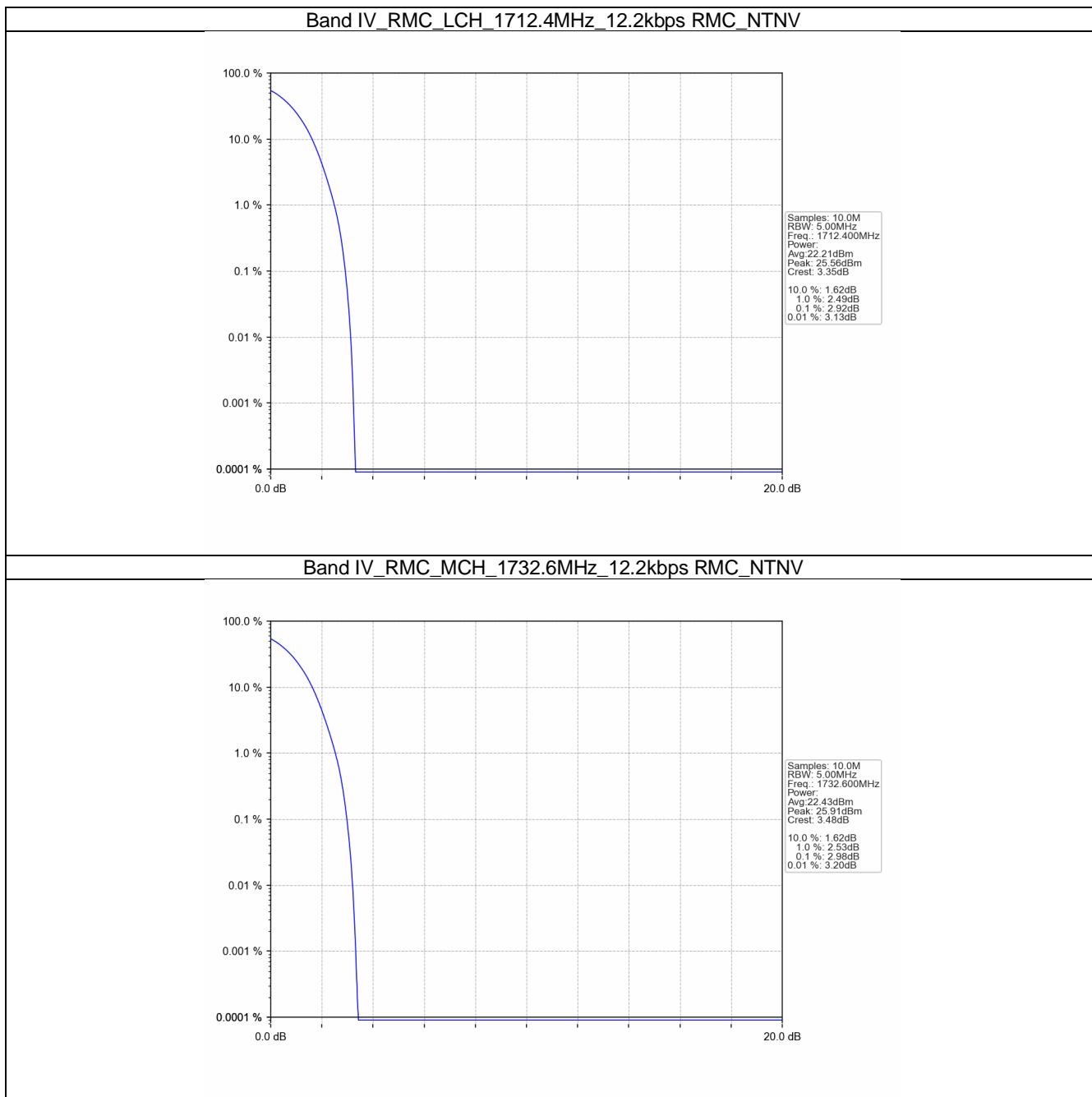
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5.1.2 Test Graph



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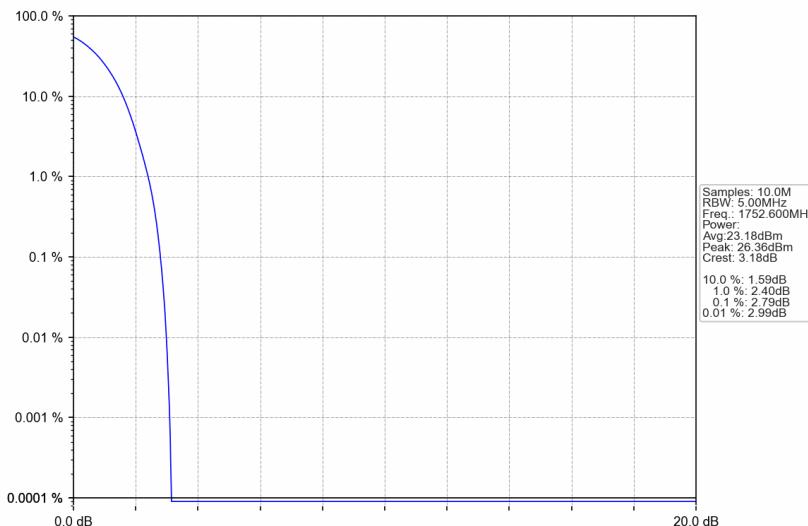
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Band IV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



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6. Spurious Emission & Band Edges

6.1 Band IV

6.1.1 Test Result

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

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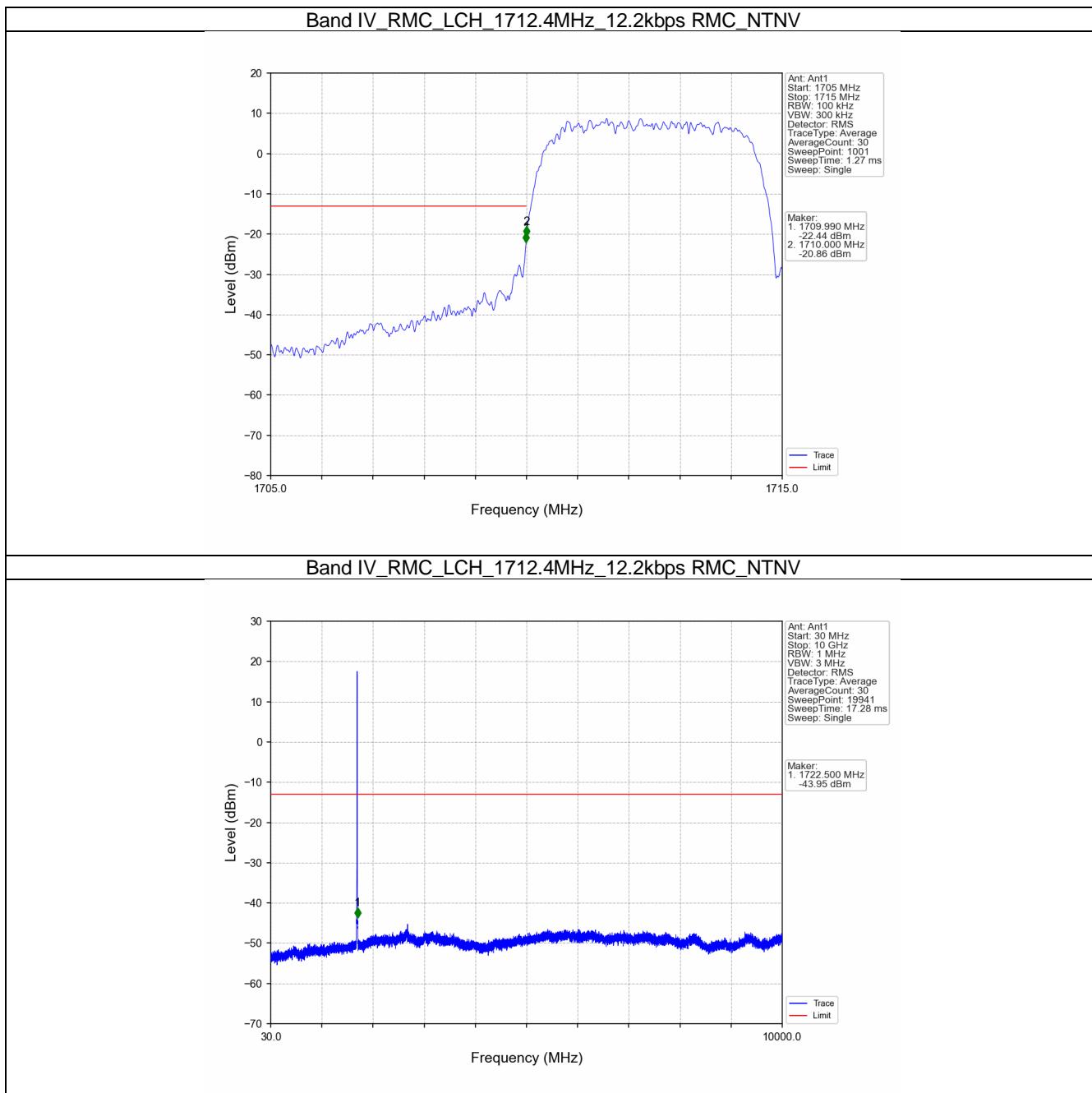
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6.1.2 Test Graph



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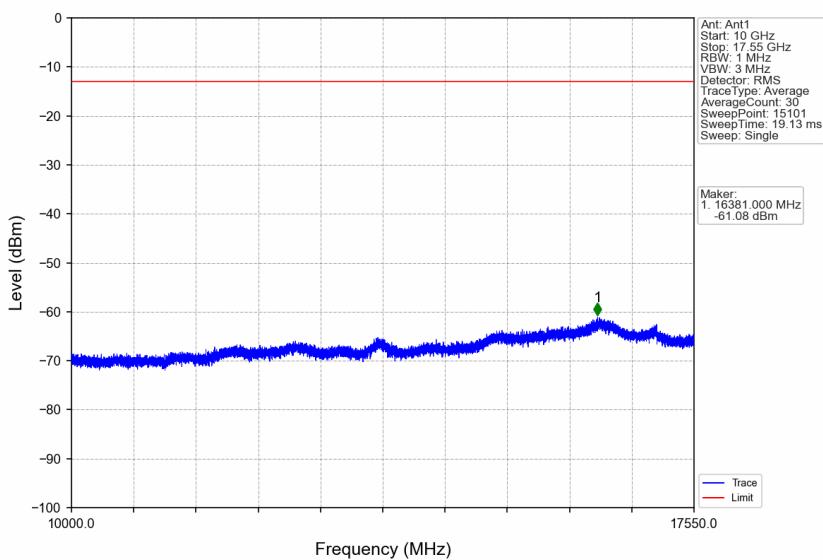
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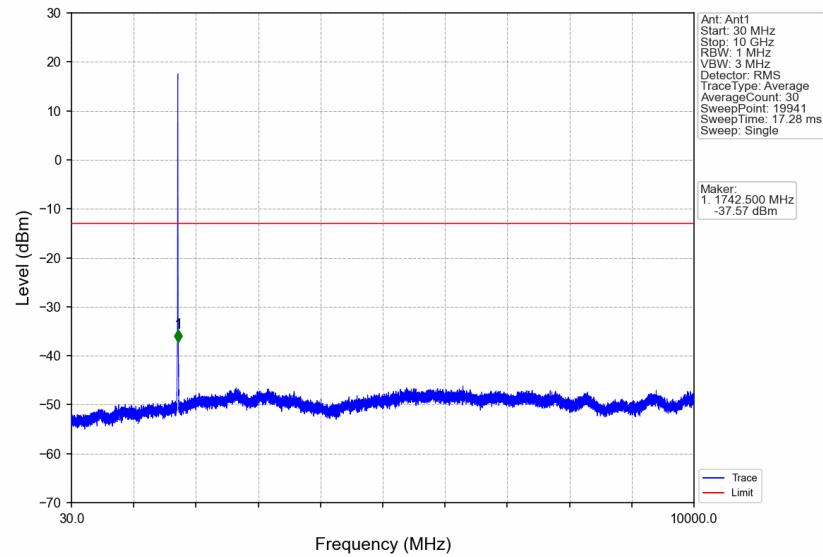
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Band IV_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



Band IV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



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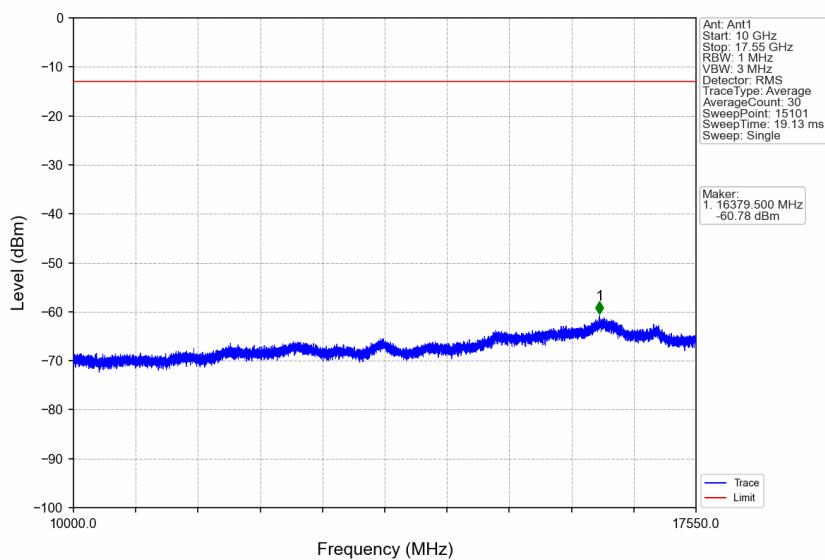
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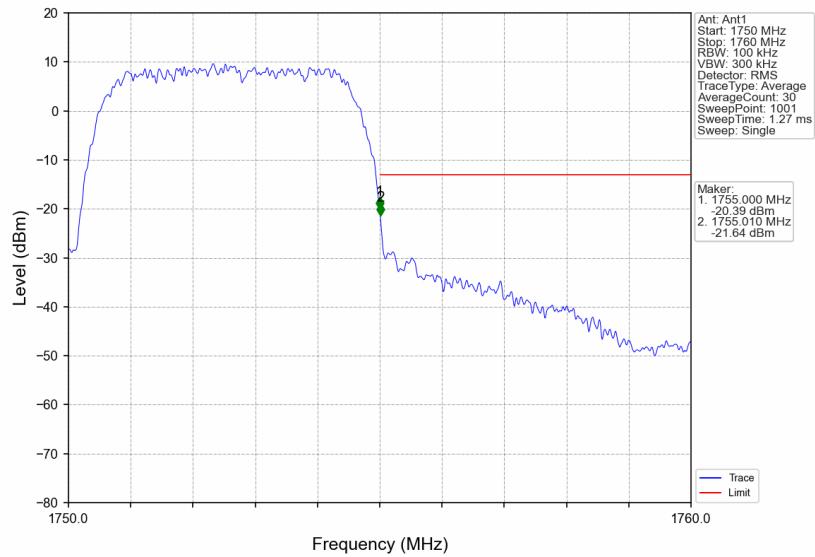
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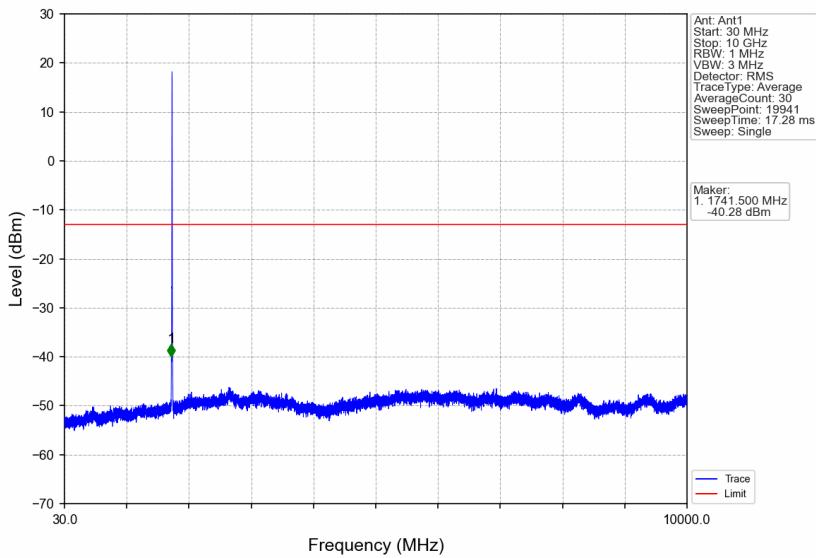
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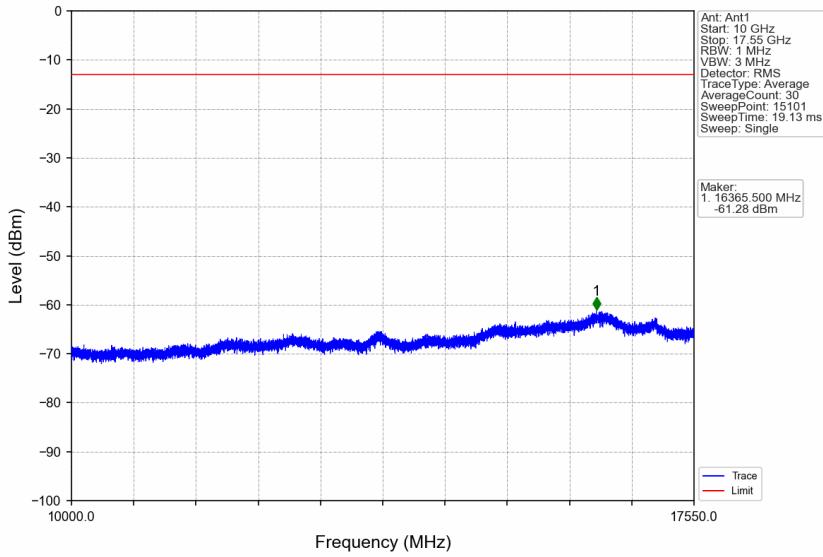
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