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 BandIV

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) - 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 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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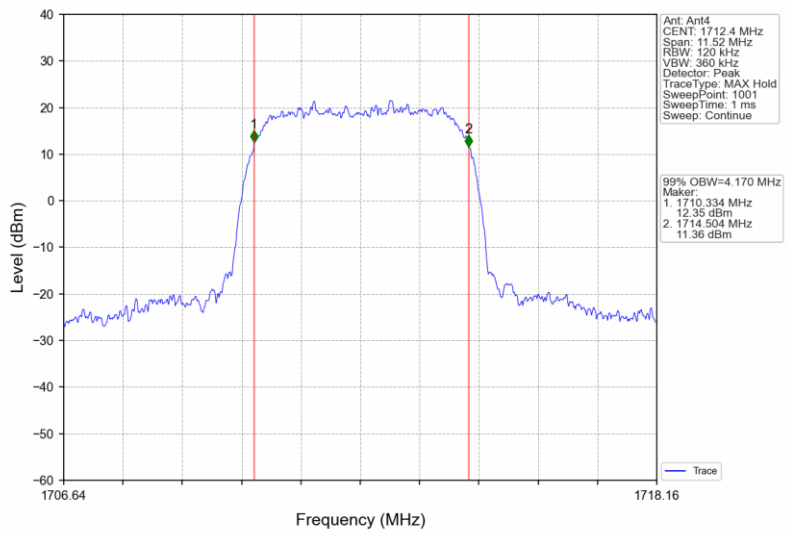
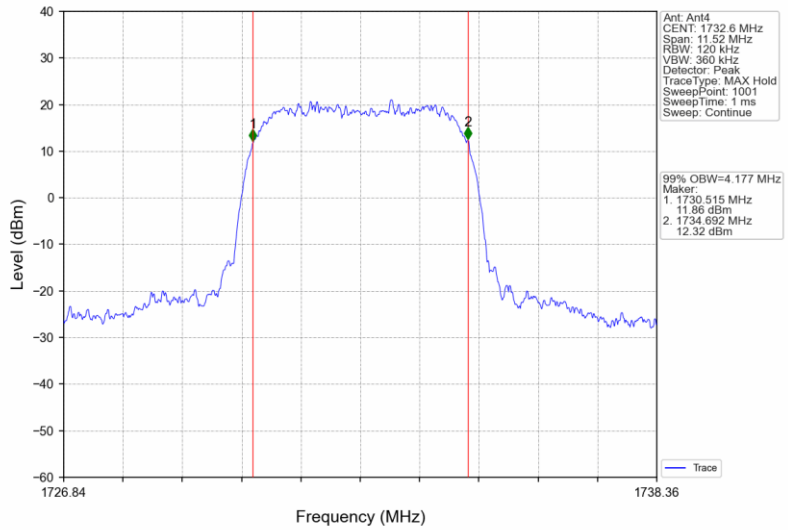
4.1.2 Test Graph

BandIV_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



BandIV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



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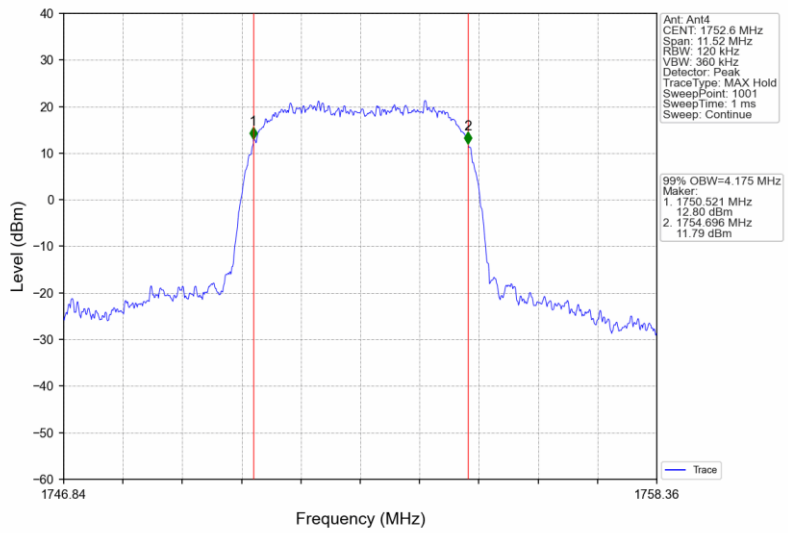
BandIV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



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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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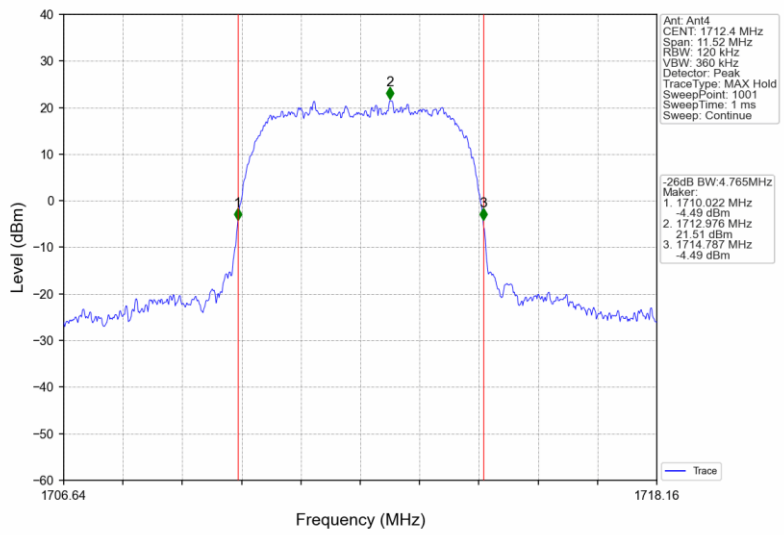
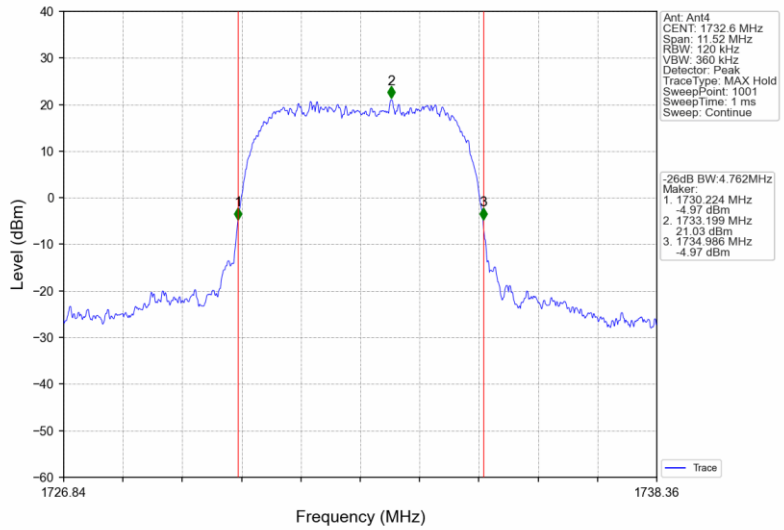
4.2.2 Test Graph

BandIV_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



BandIV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



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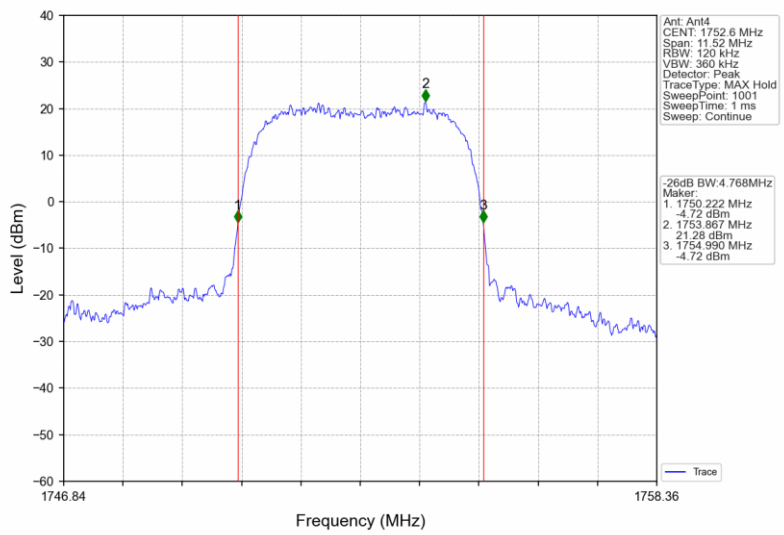
BandIV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



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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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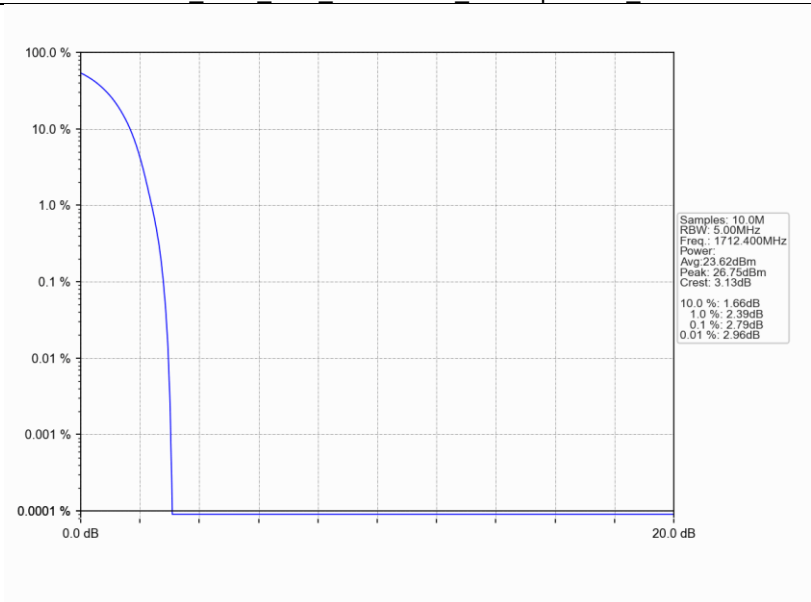
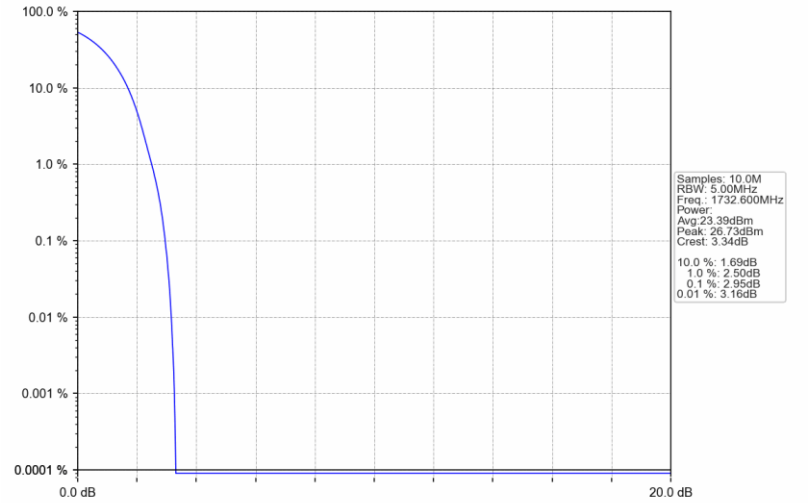
5.1.2 Test Graph

BandIV_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



BandIV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



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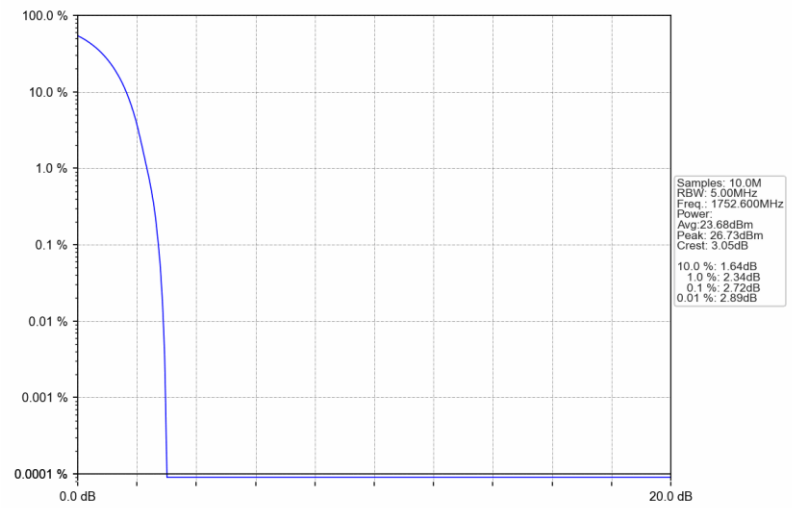
BandIV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



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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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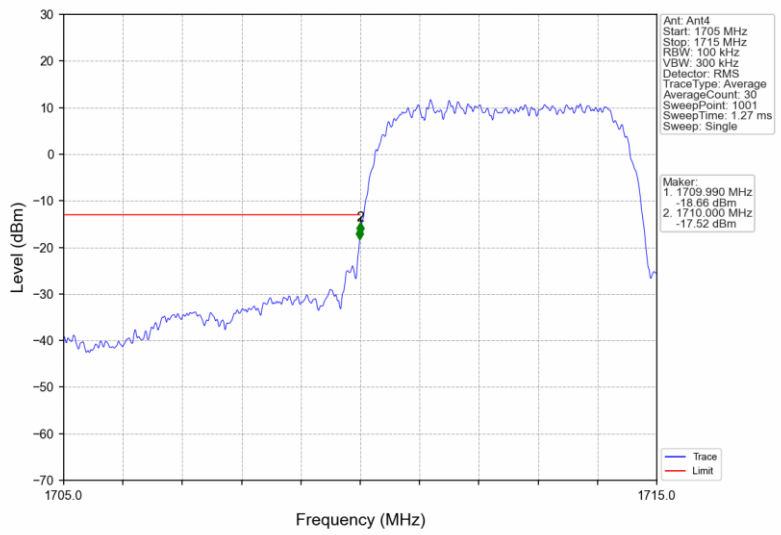
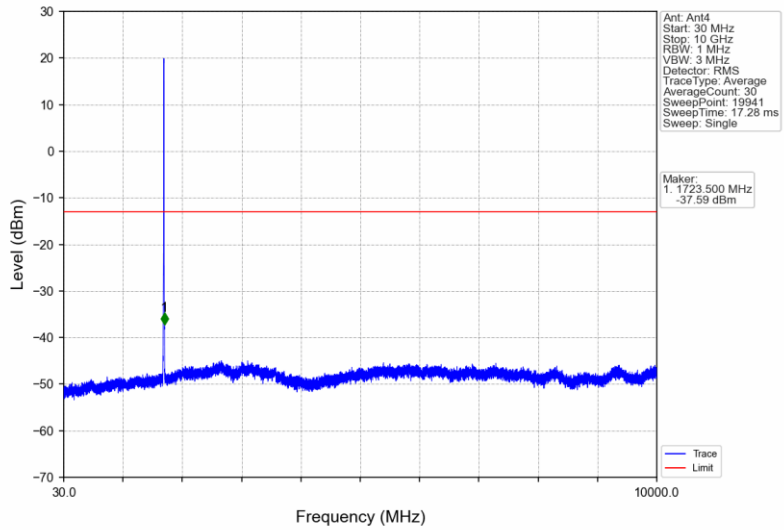
6.1.2 Test Graph

BandIV_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



BandIV_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



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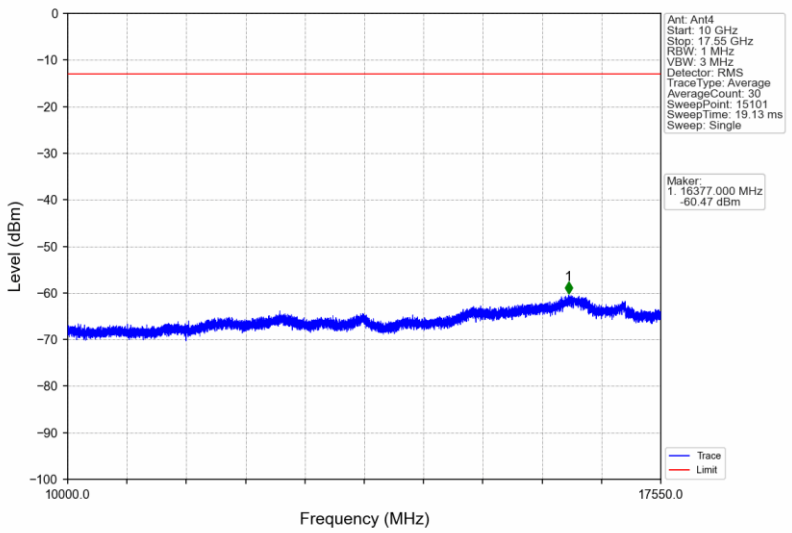
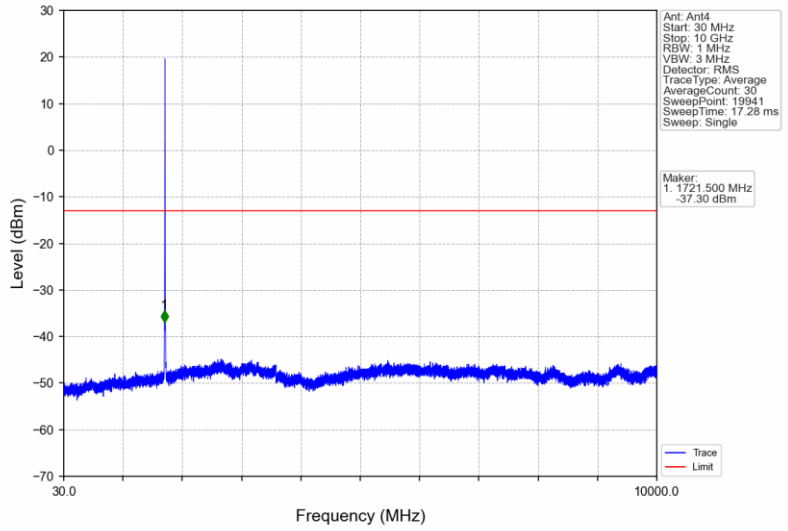


BandIV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



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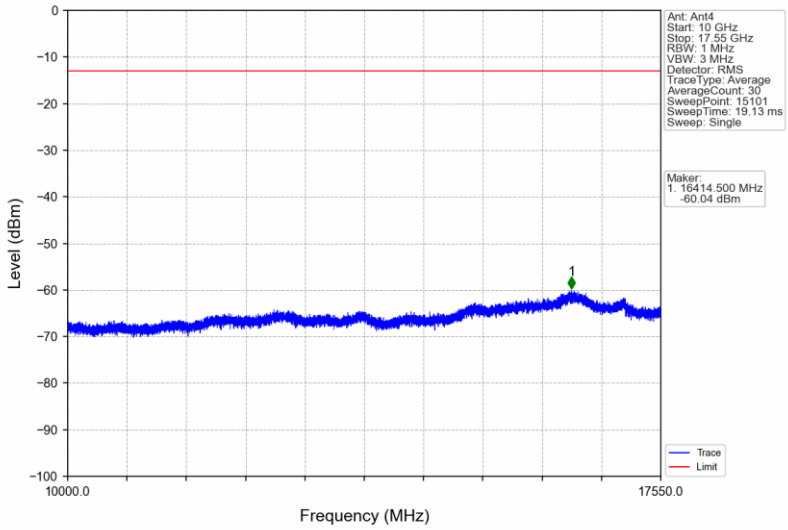
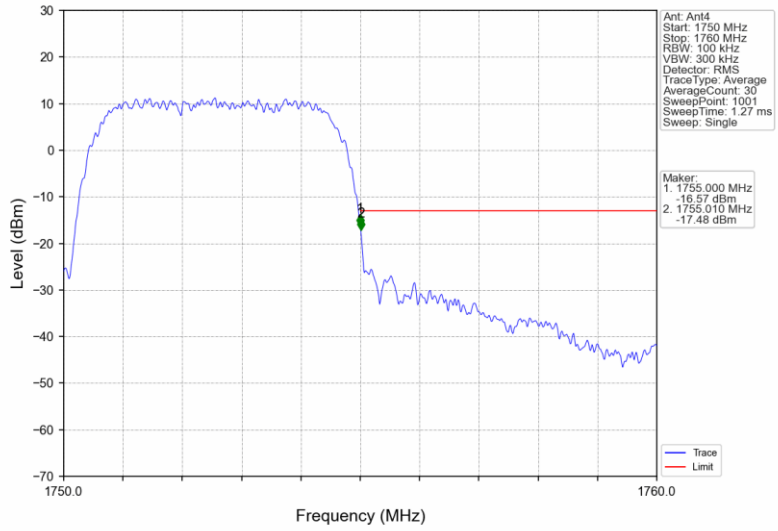


BandIV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



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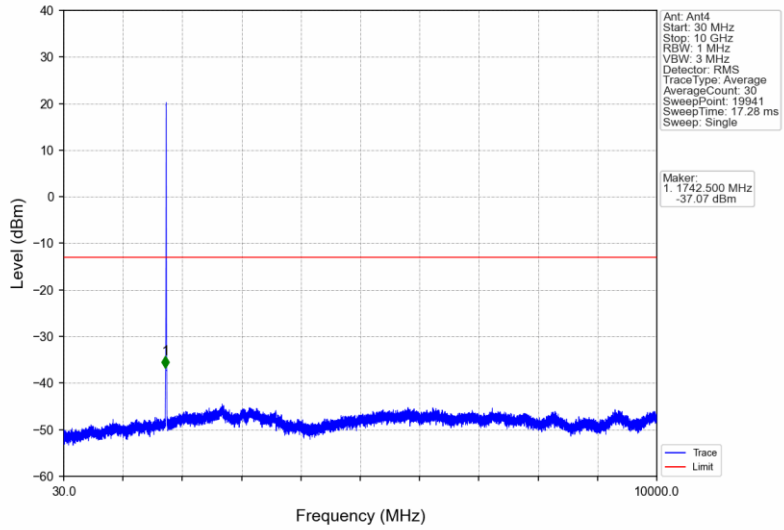
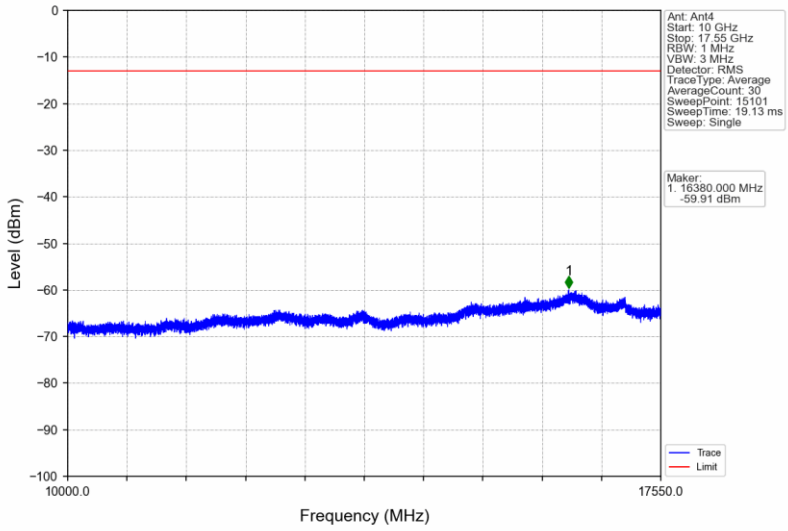


BandIV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



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