



Report No.: SEWM2311000476RG01

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Appendix B.1

WCDMA Band IV



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Effective (Isotropic) Radiated Power Output Data Band IV_EIRP Ant1

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	22.56	1.10	23.66	<=30	Pass
			1732.6	22.37	1.10	23.47	<=30	Pass
			1752.6	22.45	1.10	23.55	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain



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Peak-Average Ratio

Band IV

Test Result

Band IV						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	2.64	<=13	Pass
			1732.6	2.65	<=13	Pass
			1752.6	2.60	<=13	Pass



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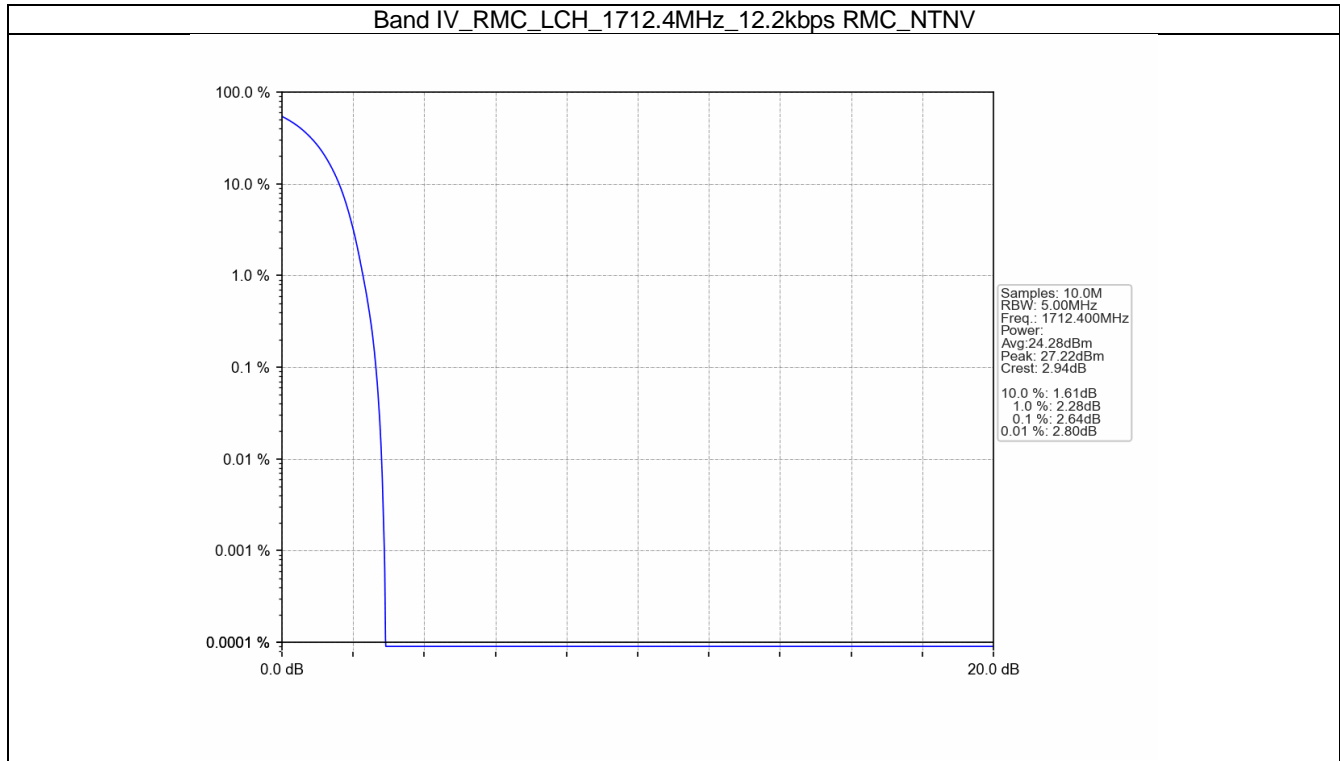
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Test Graph



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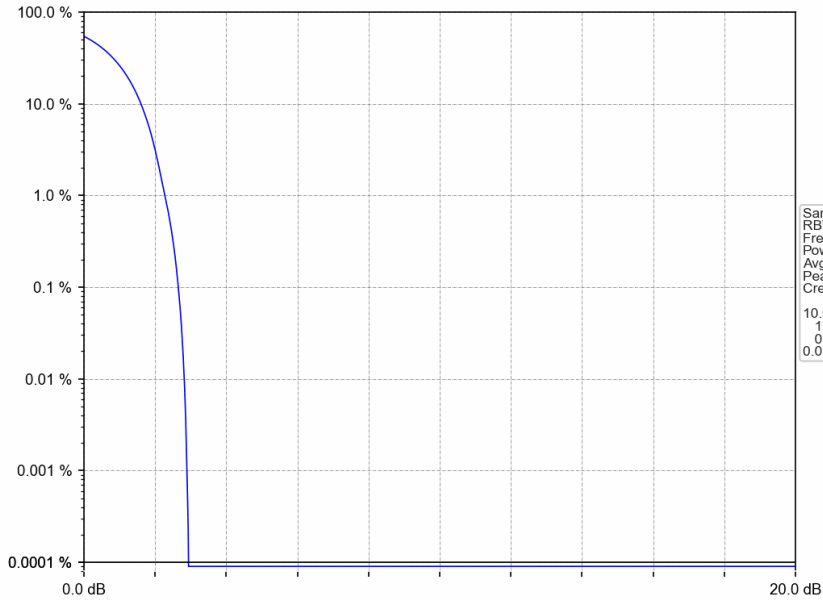


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Band IV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



Samples: 10.0M
 RBW: 5.00MHz
 Freq.: 1732.600MHz
 Power:
 Avg: 24.02dBm
 Peak: 26.98dBm
 Crest: 2.96dB

10.0 %: 1.60dB
 1.0 %: 2.28dB
 0.1 %: 2.65dB
 0.01 %: 2.82dB



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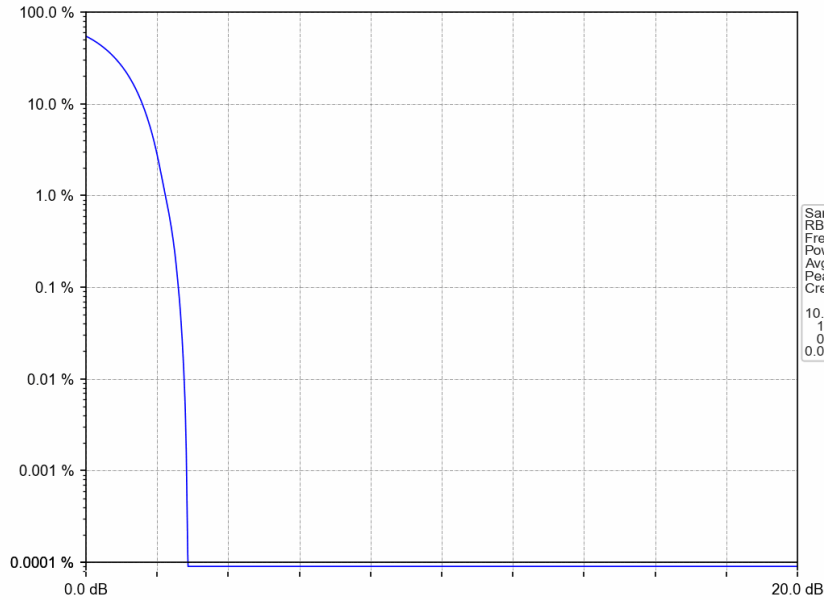


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Band IV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



Samples: 10.0M
 RBW: 5.00MHz
 Freq.: 1752.600MHz
 Power:
 Avg:24.17dBm
 Peak: 27.04dBm
 Crest: 2.87dB

10.0 %: 1.58dB
 1.0 %: 2.23dB
 0.1 %: 2.60dB
 0.01 %: 2.76dB



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99% & 26dB Bandwidth

Band IV_OBW

Test Result

Band IV						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.180	/	Pass
			1732.6	4.172	/	Pass
			1752.6	4.176	/	Pass



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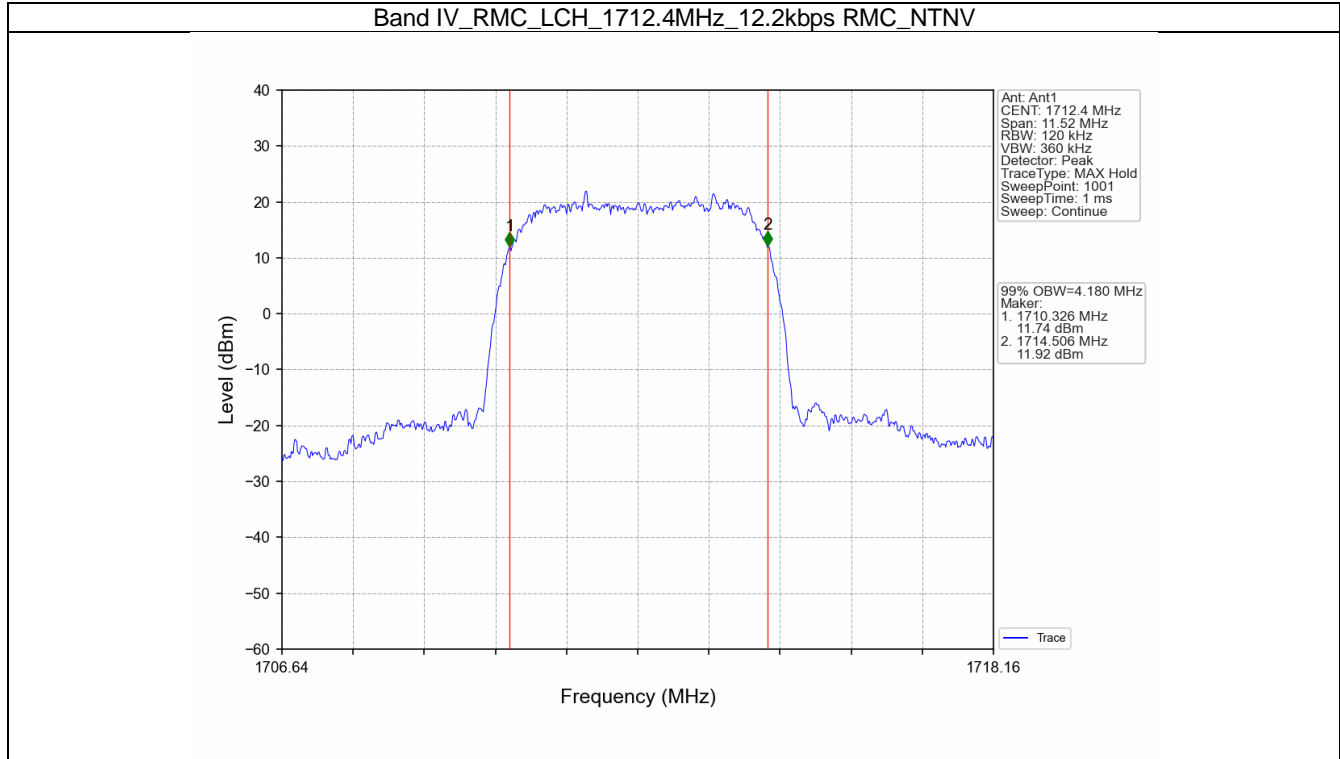
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Test Graph



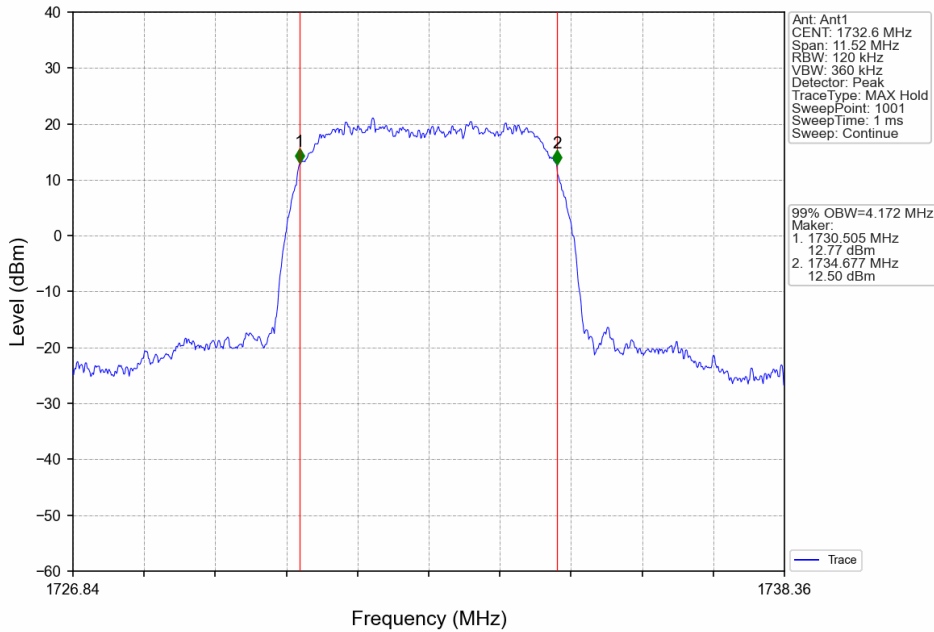
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Band IV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV

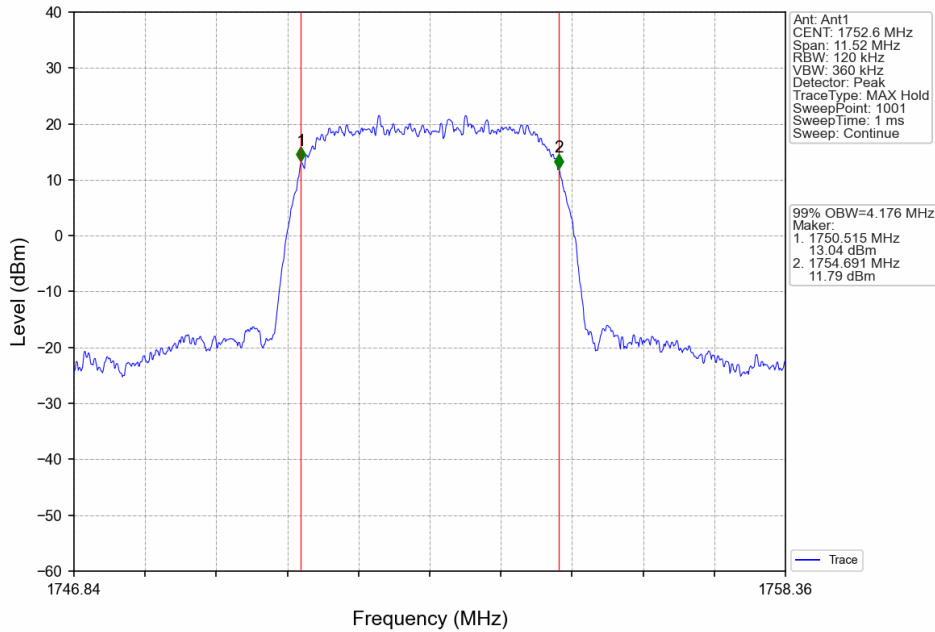


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Band IV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



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Band IV_XDB

Test Result

Band IV						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.770	/	Pass
			1732.6	4.778	/	Pass
			1752.6	4.763	/	Pass



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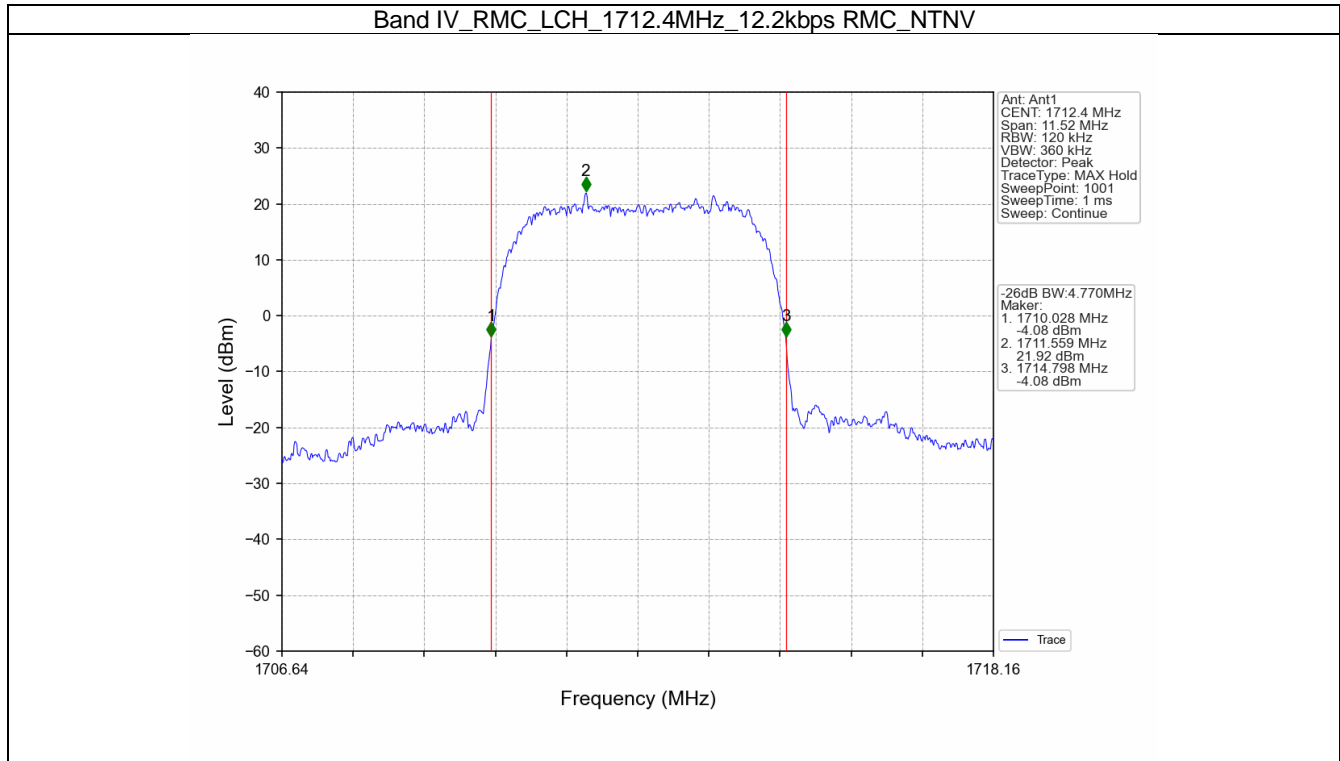
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Test Graph



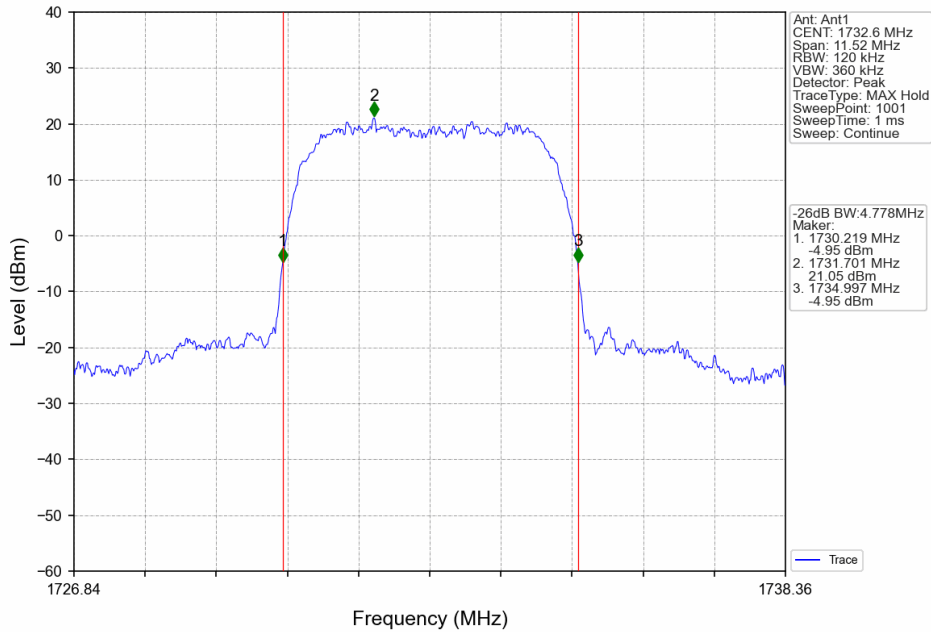
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Band IV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV

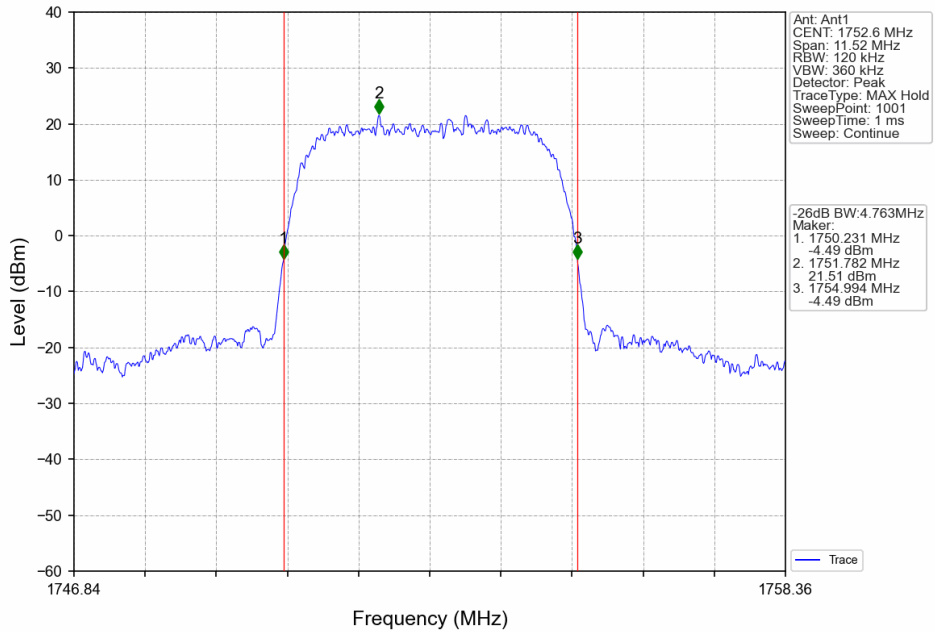


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Band IV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



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Spurious Emission & Band Edge

Band IV

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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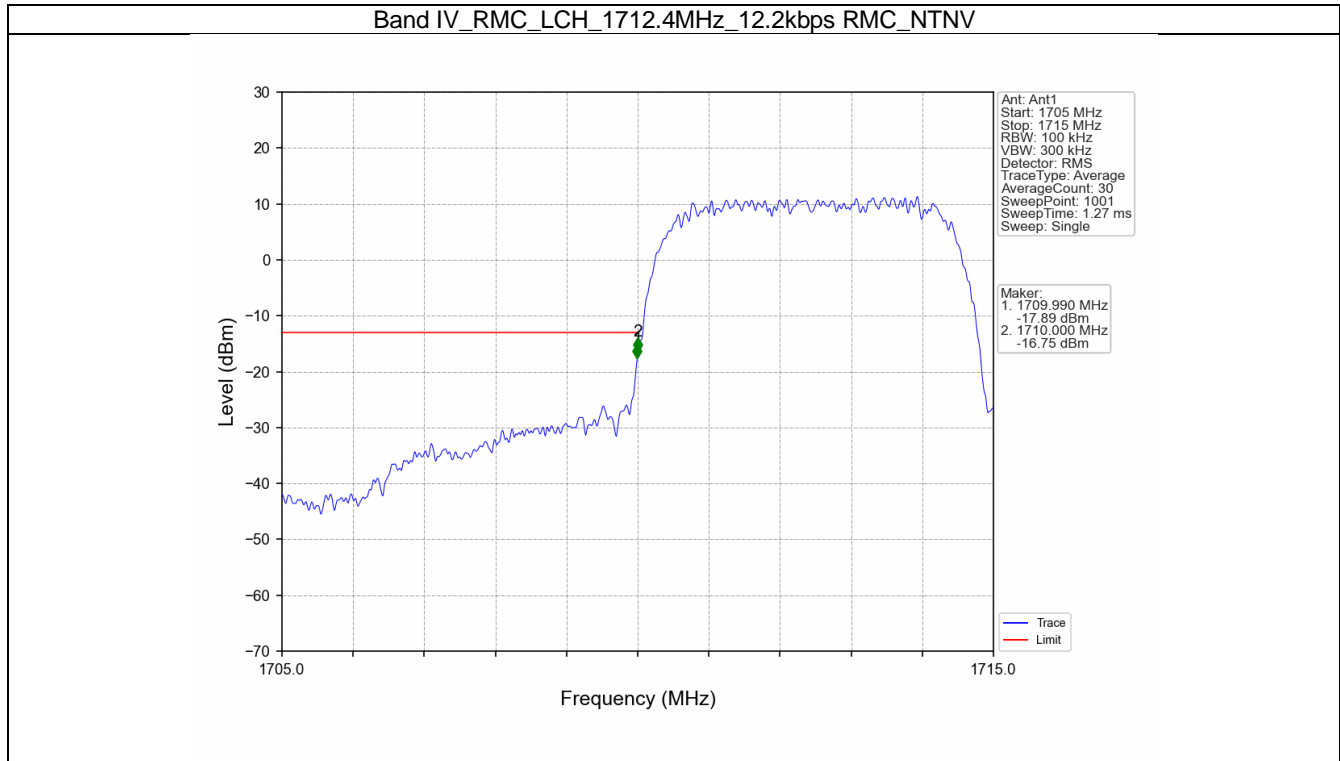
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Test Graph



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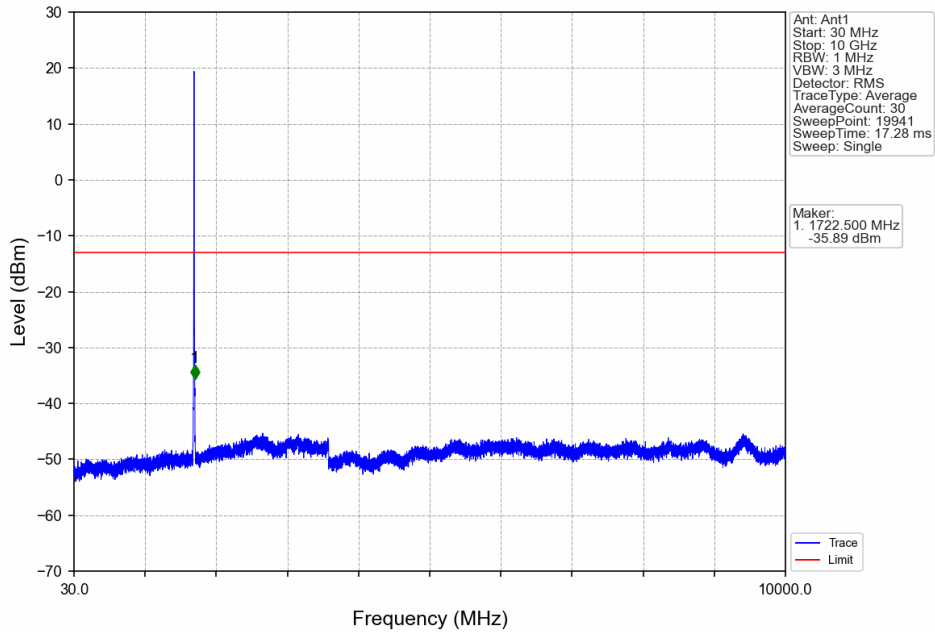


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Band IV_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



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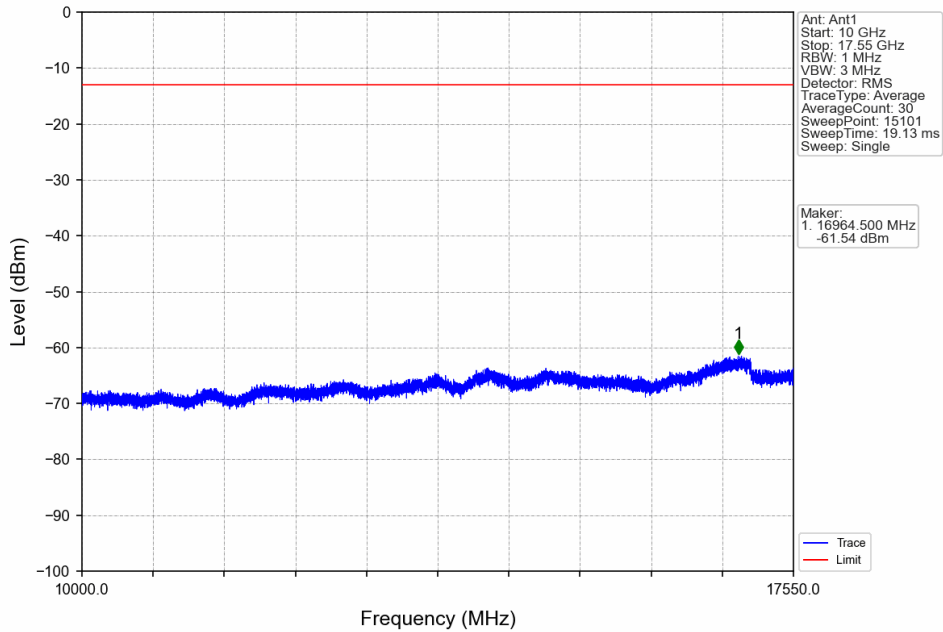


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Band IV_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



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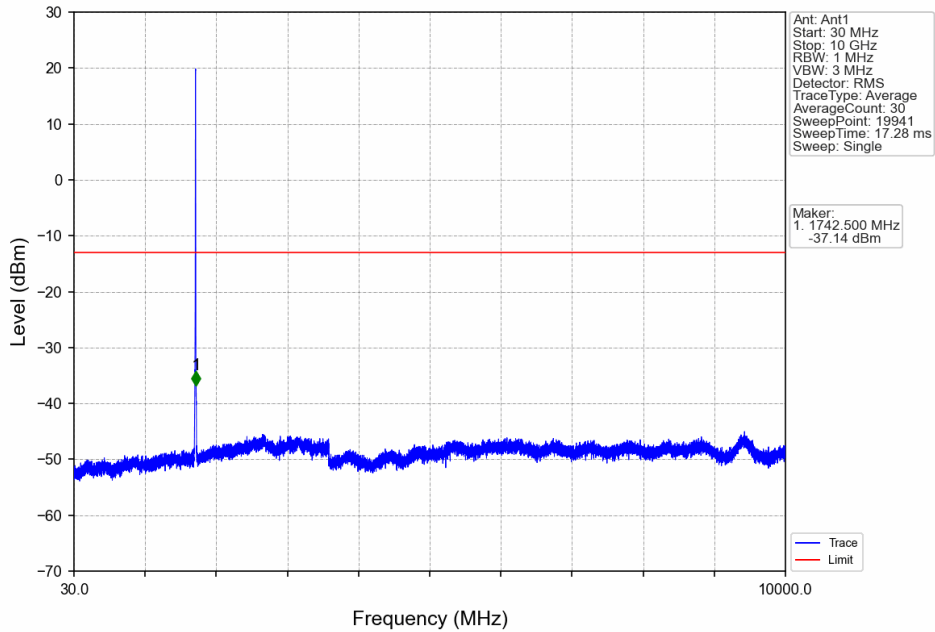


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Band IV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



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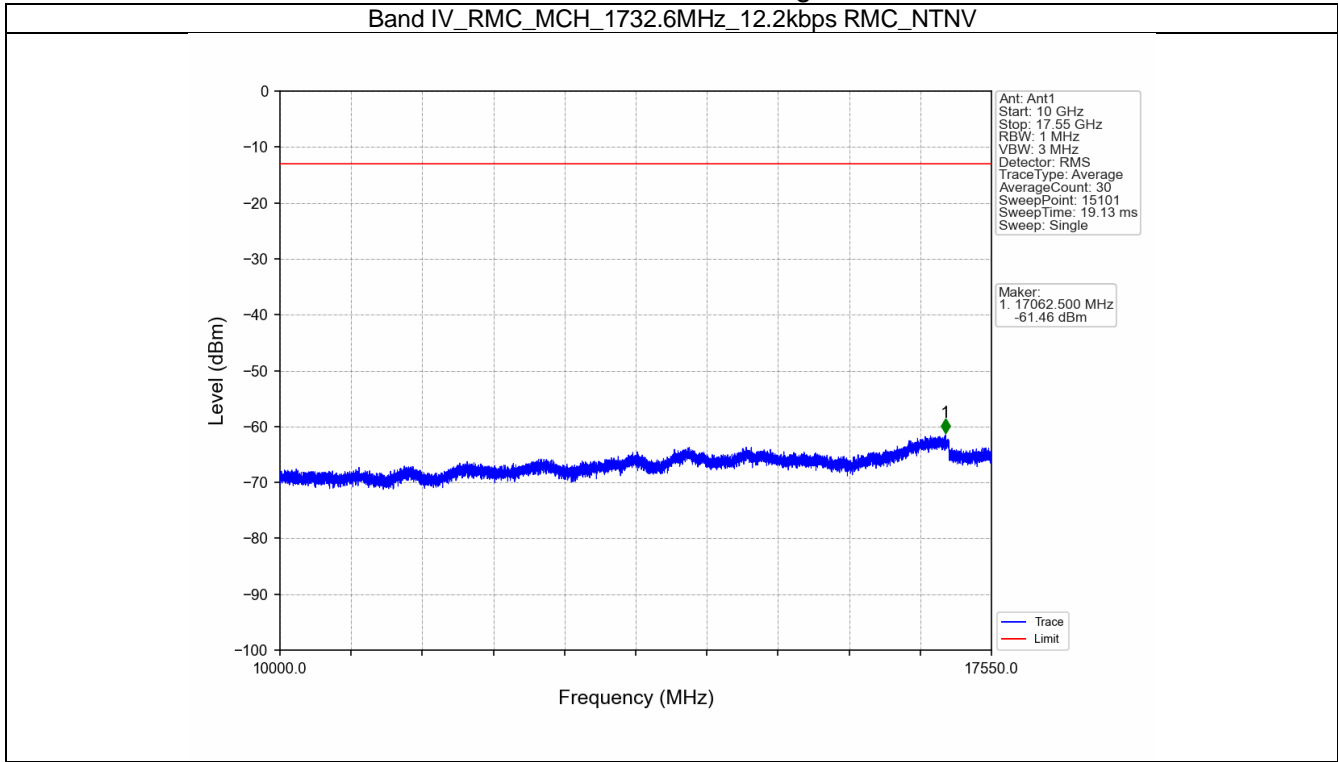


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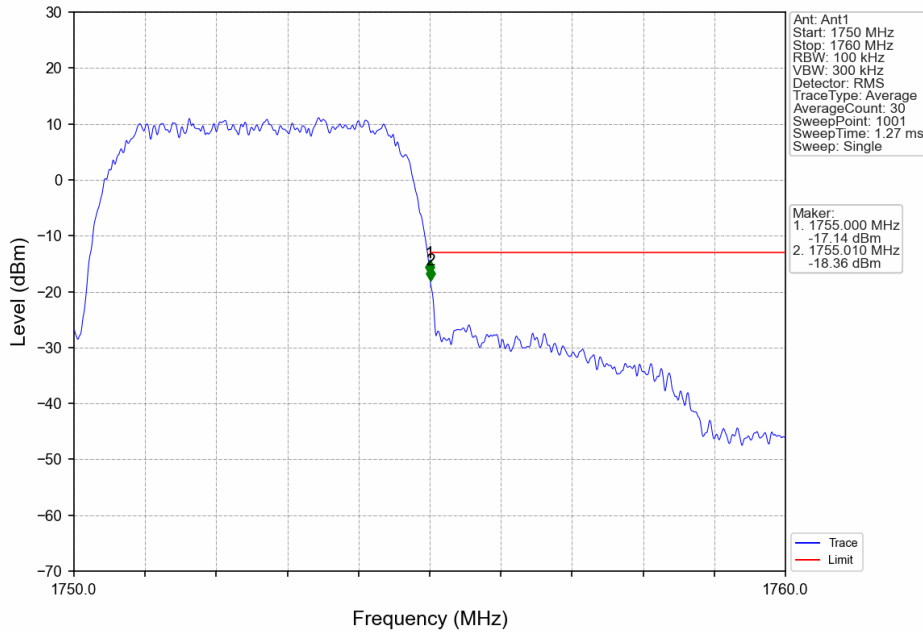
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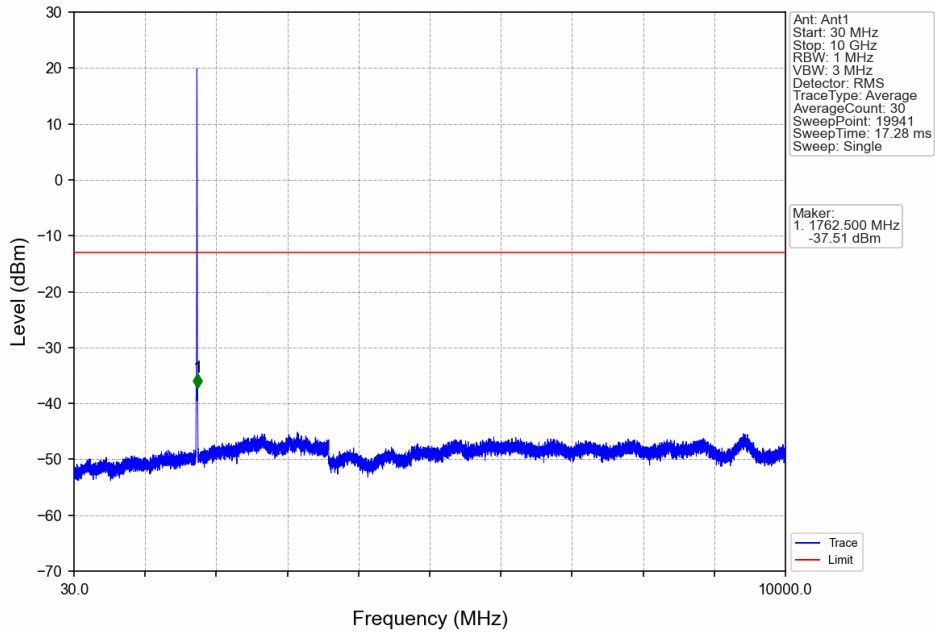
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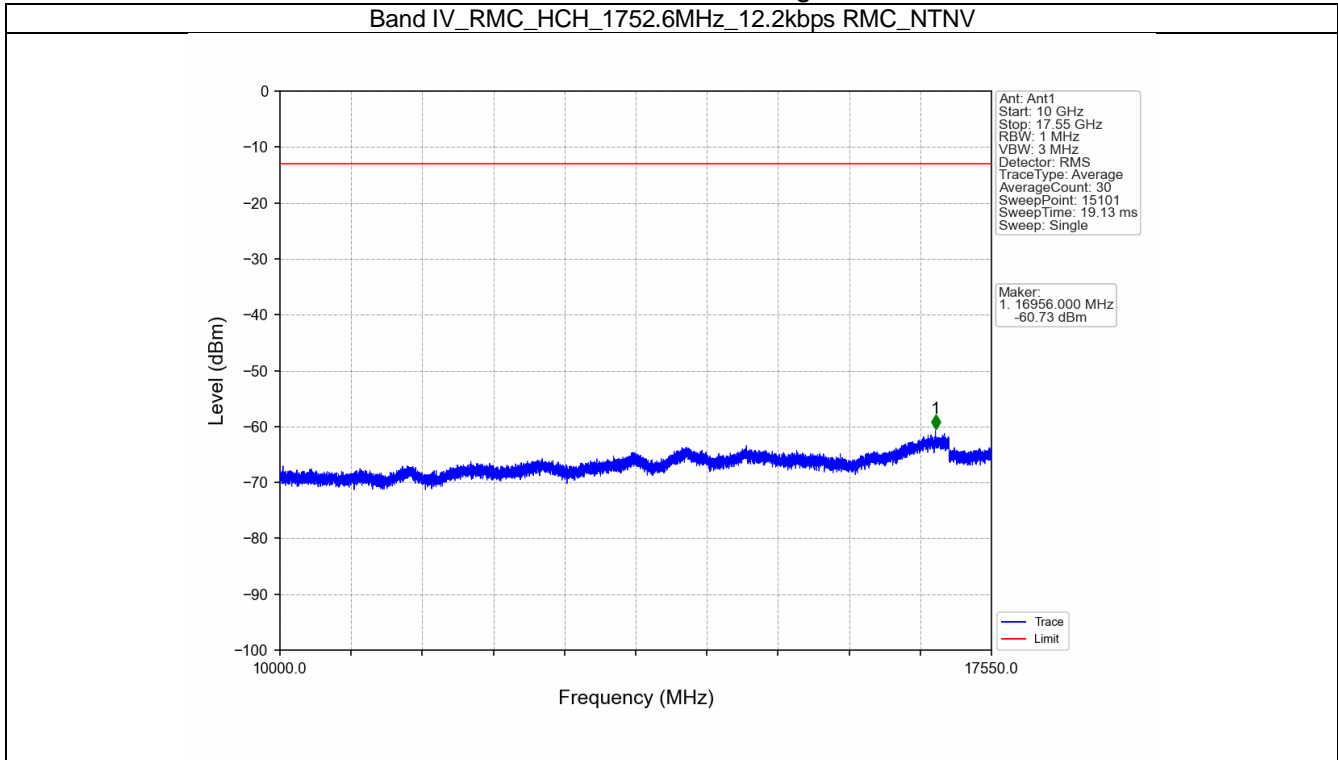


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Band IV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



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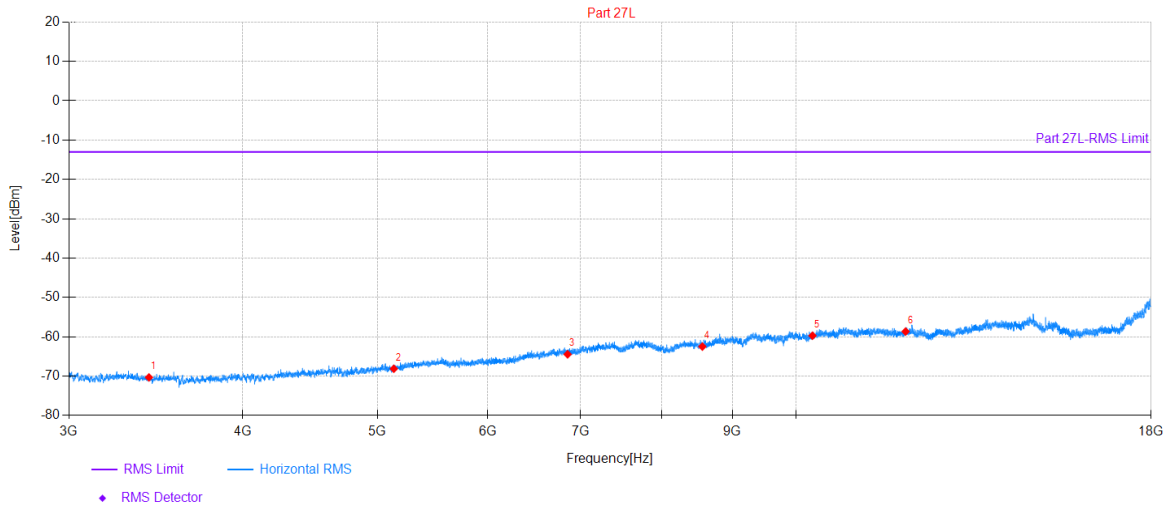
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Field Strength of Spurious Radiation
Test Band = WCDMA Band IV_ TM1
Test Channel = Low Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3424.8	44.64	-48.38	28.67	-70.33	-13.00	57.33	Horizontal
2	5137.2	43.16	-47.85	31.83	-68.12	-13.00	55.12	Horizontal
3	6849.6	42.35	-46.81	35.27	-64.45	-13.00	51.45	Horizontal
4	8562	39.88	-44.09	36.99	-62.48	-13.00	49.48	Horizontal
5	10274.4	38.19	-41.40	38.75	-59.72	-13.00	46.72	Horizontal
6	11986.8	36.88	-39.49	39.20	-58.67	-13.00	45.67	Horizontal



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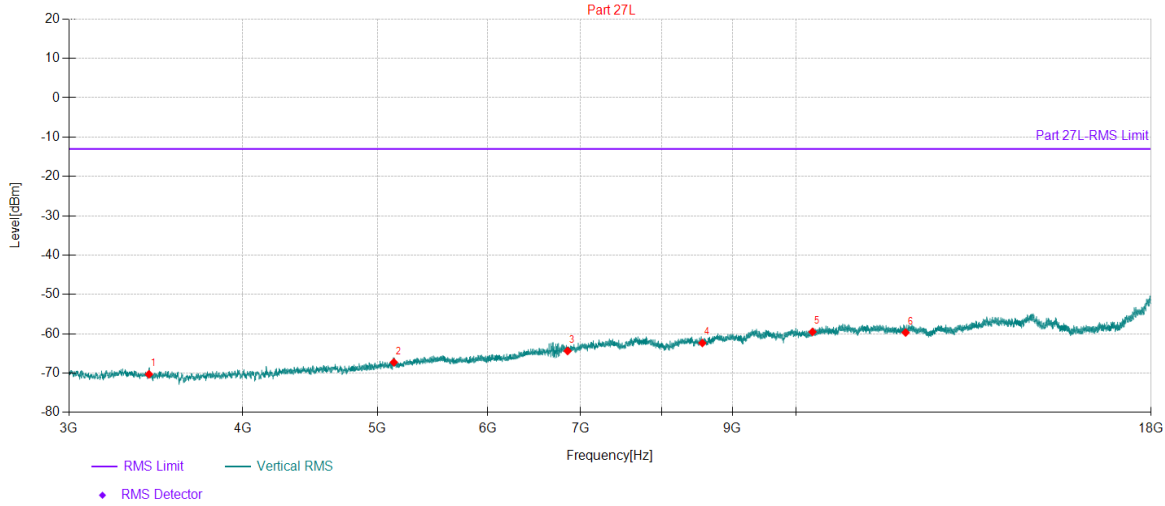
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Test Band = WCDMA Band IV_ TM1
 Test Channel = Low Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3424.8	44.69	-48.38	28.67	-70.28	-13.00	57.28	Vertical
2	5137.2	44.03	-47.85	31.83	-67.25	-13.00	54.25	Vertical
3	6849.6	42.43	-46.81	35.27	-64.37	-13.00	51.37	Vertical
4	8562	40.02	-44.09	36.99	-62.34	-13.00	49.34	Vertical
5	10274.4	38.40	-41.40	38.75	-59.51	-13.00	46.51	Vertical
6	11986.8	35.87	-39.49	39.20	-59.68	-13.00	46.68	Vertical

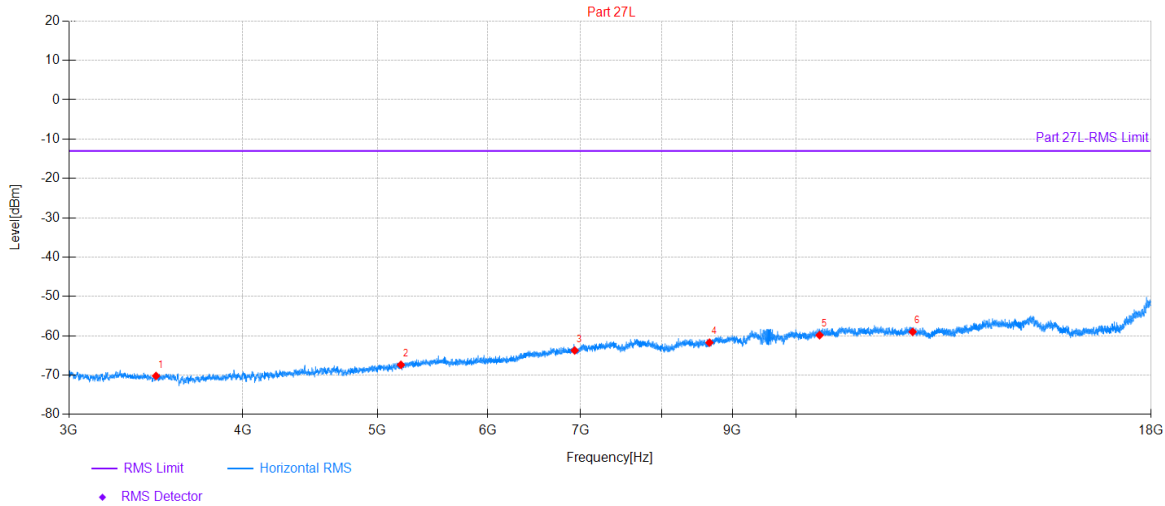


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Test Band = WCDMA Band IV_ TM1
 Test Channel = Mid Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3465.2	44.69	-48.33	28.69	-70.21	-13.00	57.21	Horizontal
2	5197.8	43.79	-47.89	31.98	-67.38	-13.00	54.38	Horizontal
3	6930.4	42.77	-46.69	35.45	-63.73	-13.00	50.73	Horizontal
4	8663	40.46	-44.06	37.13	-61.74	-13.00	48.74	Horizontal
5	10395.6	37.80	-41.24	38.86	-59.84	-13.00	46.84	Horizontal
6	12128.2	36.82	-39.68	39.12	-59.00	-13.00	46.00	Horizontal

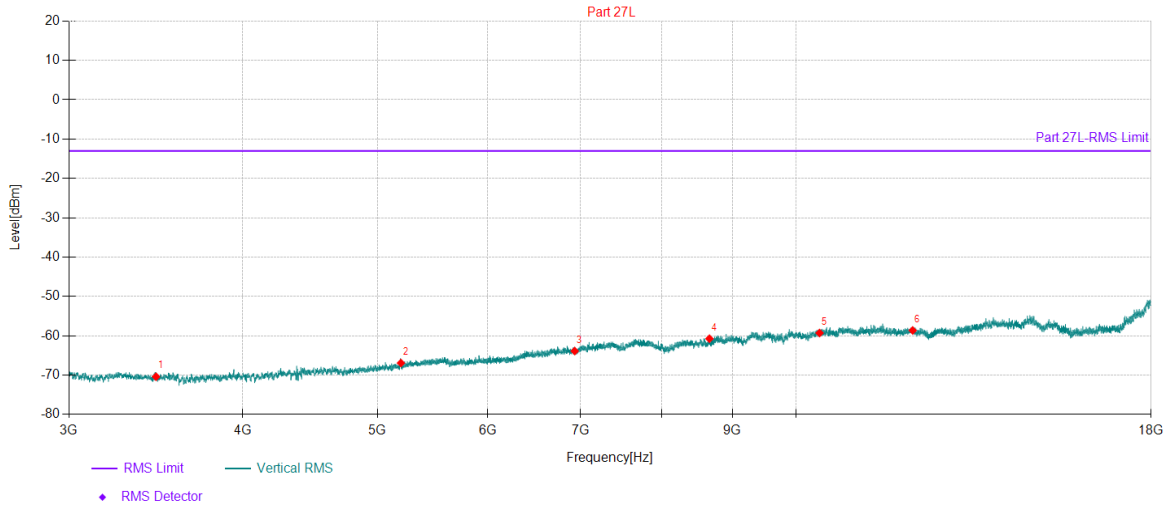


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Test Band = WCDMA Band IV_ TM1
Test Channel = Mid Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3465.2	44.49	-48.33	28.69	-70.41	-13.00	57.41	Vertical
2	5197.8	44.24	-47.89	31.98	-66.93	-13.00	53.93	Vertical
3	6930.4	42.62	-46.69	35.45	-63.88	-13.00	50.88	Vertical
4	8663	41.47	-44.06	37.13	-60.73	-13.00	47.73	Vertical
5	10395.6	38.35	-41.24	38.86	-59.29	-13.00	46.29	Vertical
6	12128.2	37.18	-39.68	39.12	-58.64	-13.00	45.64	Vertical

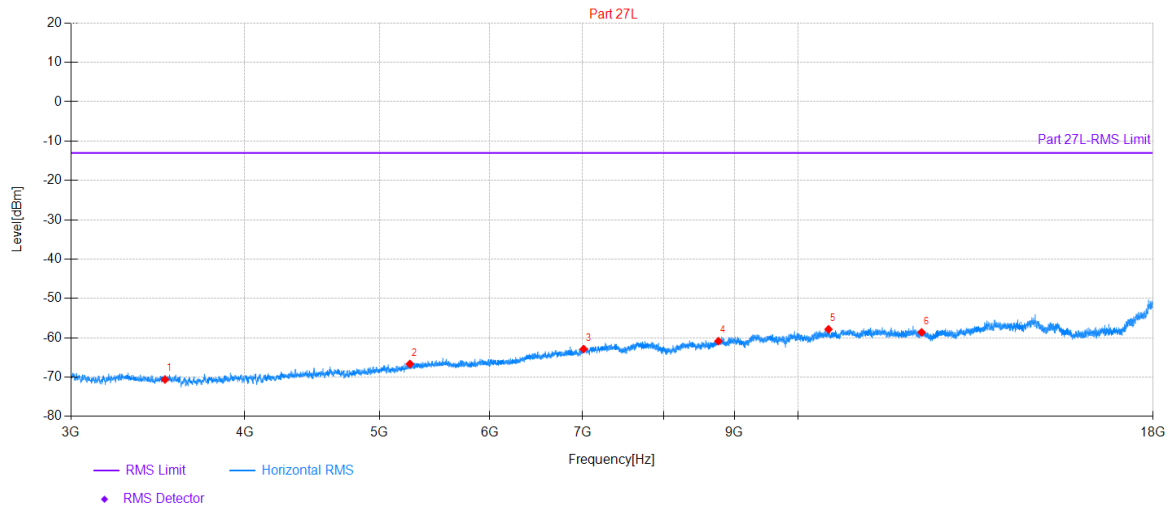


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Test Band = WCDMA Band IV_ TM1
Test Channel = High Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3505.2	44.23	-48.29	28.71	-70.61	-13.00	57.61	Horizontal
2	5257.8	44.31	-47.83	32.12	-66.66	-13.00	53.66	Horizontal
3	7010.4	43.28	-46.52	35.63	-62.87	-13.00	49.87	Horizontal
4	8763	41.17	-44.04	37.27	-60.86	-13.00	47.86	Horizontal
5	10515.6	39.20	-40.74	38.96	-57.84	-13.00	44.84	Horizontal
6	12268.2	37.37	-39.76	39.04	-58.61	-13.00	45.61	Horizontal

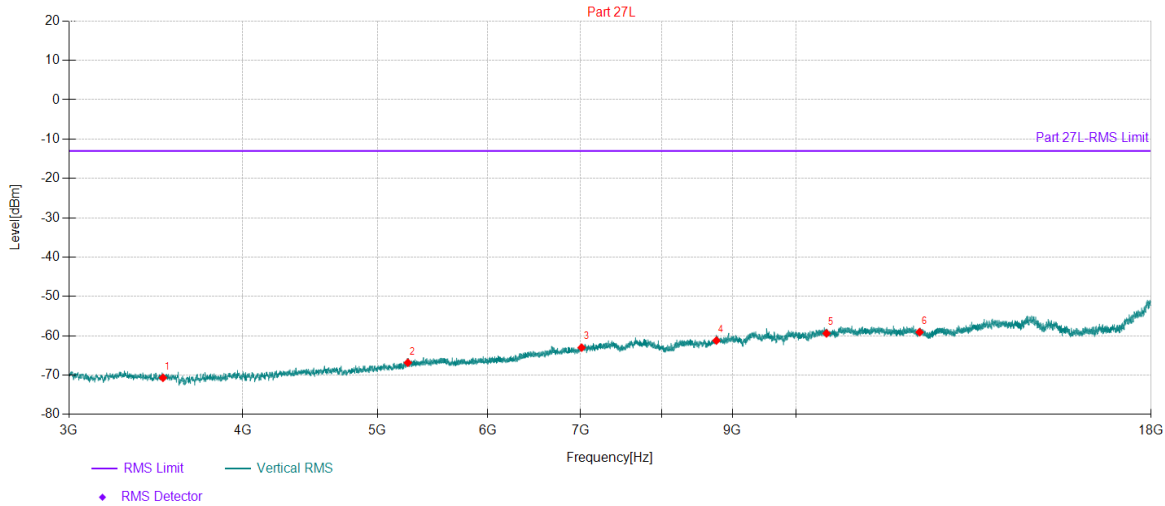


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Test Band = WCDMA Band IV_ TM1
Test Channel = High Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3505.2	44.17	-48.29	28.71	-70.67	-13.00	57.67	Vertical
2	5257.8	44.14	-47.83	32.12	-66.83	-13.00	53.83	Vertical
3	7010.4	43.14	-46.52	35.63	-63.01	-13.00	50.01	Vertical
4	8763	40.82	-44.04	37.27	-61.21	-13.00	48.21	Vertical
5	10515.6	37.64	-40.74	38.96	-59.40	-13.00	46.40	Vertical
6	12268.2	36.89	-39.76	39.04	-59.09	-13.00	46.09	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



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Frequency Stability
Band IV

Test Result

Table with columns: Network, Frequency (MHz), Temp. (°C), Voltage (VDC), Freq. Error (Hz), Freq. vs. Rated (ppm) (Result, Limit), Verdict. Data rows for RMC network at frequencies 1712.4, 1732.6, and 1752.6 MHz.

---End of Attachment---



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