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Appendix B.4

WCDMA Band V



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Effective (Isotropic) Radiated Power Output Data

Band V_ERP Ant0

Test Result

Band V								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	23.86	-1.60	20.11	<=38.45	Pass
			836.6	24.06	-1.60	20.31	<=38.45	Pass
			846.6	23.64	-1.60	19.89	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15



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Peak-Average Ratio

Band V

Test Result

Band V						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	2.71	<=13	Pass
			836.6	2.68	<=13	Pass
			846.6	2.68	<=13	Pass



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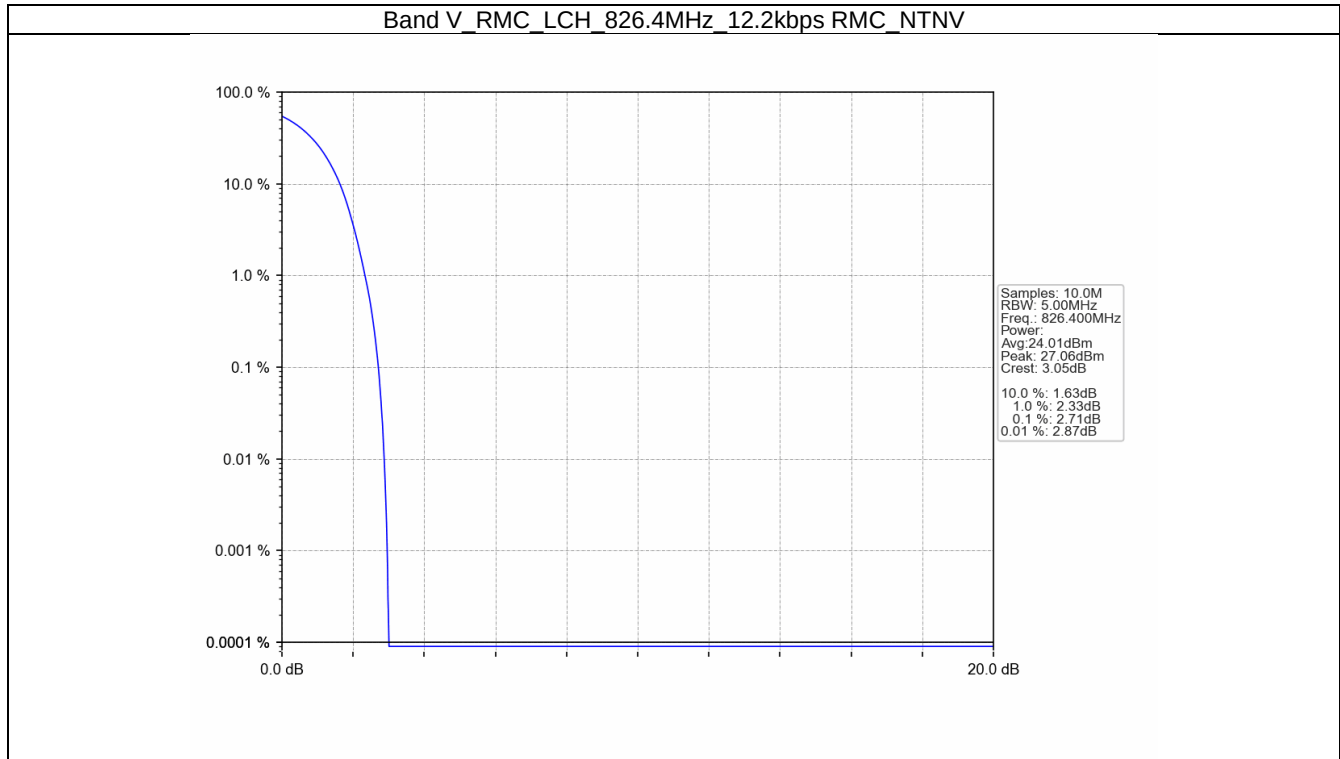
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Test Graph



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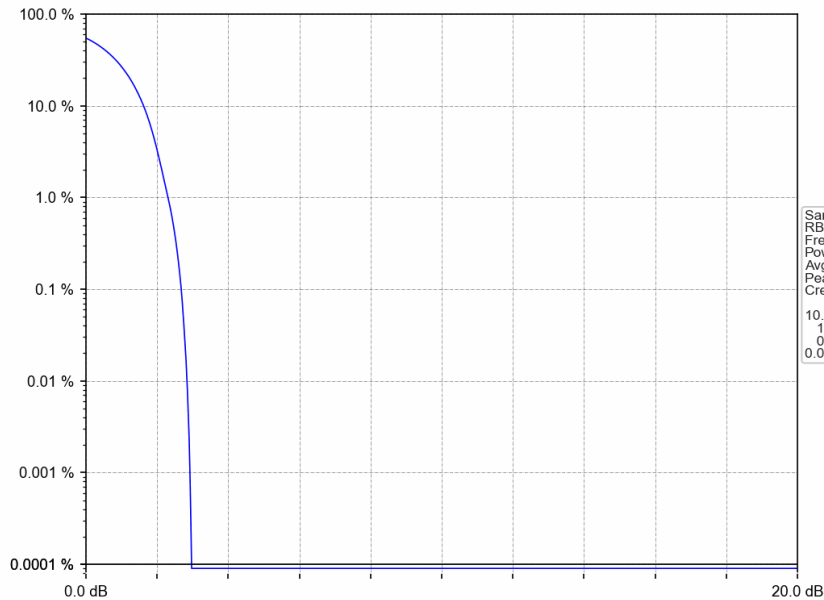
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Band V_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



Samples: 10.0M
RBW: 5.00MHz
Freq.: 836.600MHz
Power:
Avg: 23.86dBm
Peak: 26.85dBm
Crest: 2.99dB
10.0 %: 1.62dB
1.0 %: 2.31dB
0.1 %: 2.68dB
0.01 %: 2.84dB



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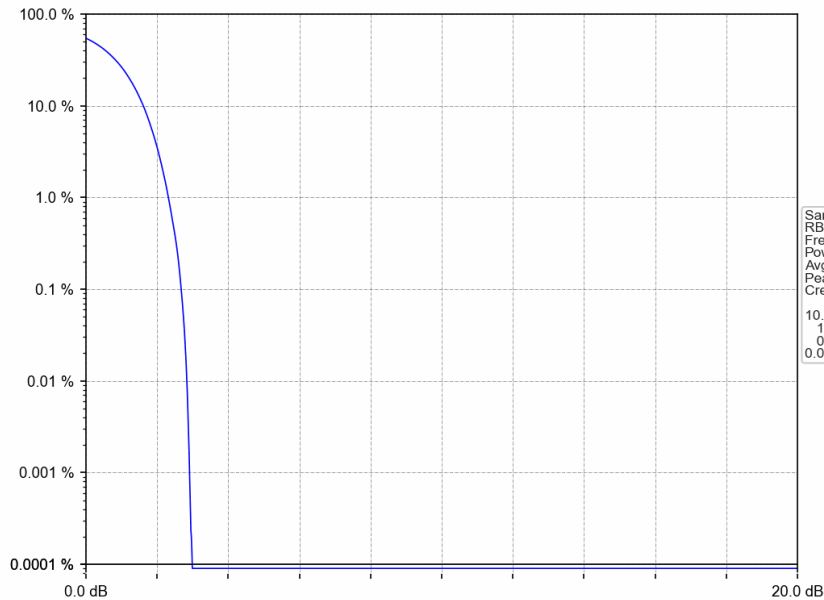
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Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



Samples: 10.0M
RBW: 5.00MHz
Freq.: 846.600MHz
Power:
Avg: 23.94dBm
Peak: 26.99dBm
Crest: 3.05dB
10.0 %: 1.61dB
1.0 %: 2.32dB
0.1 %: 2.68dB
0.01 %: 2.84dB



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99% & 26dB Bandwidth

Band V_OBW

Test Result

Band V						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	4.162	/	Pass
			836.6	4.163	/	Pass
			846.6	4.136	/	Pass



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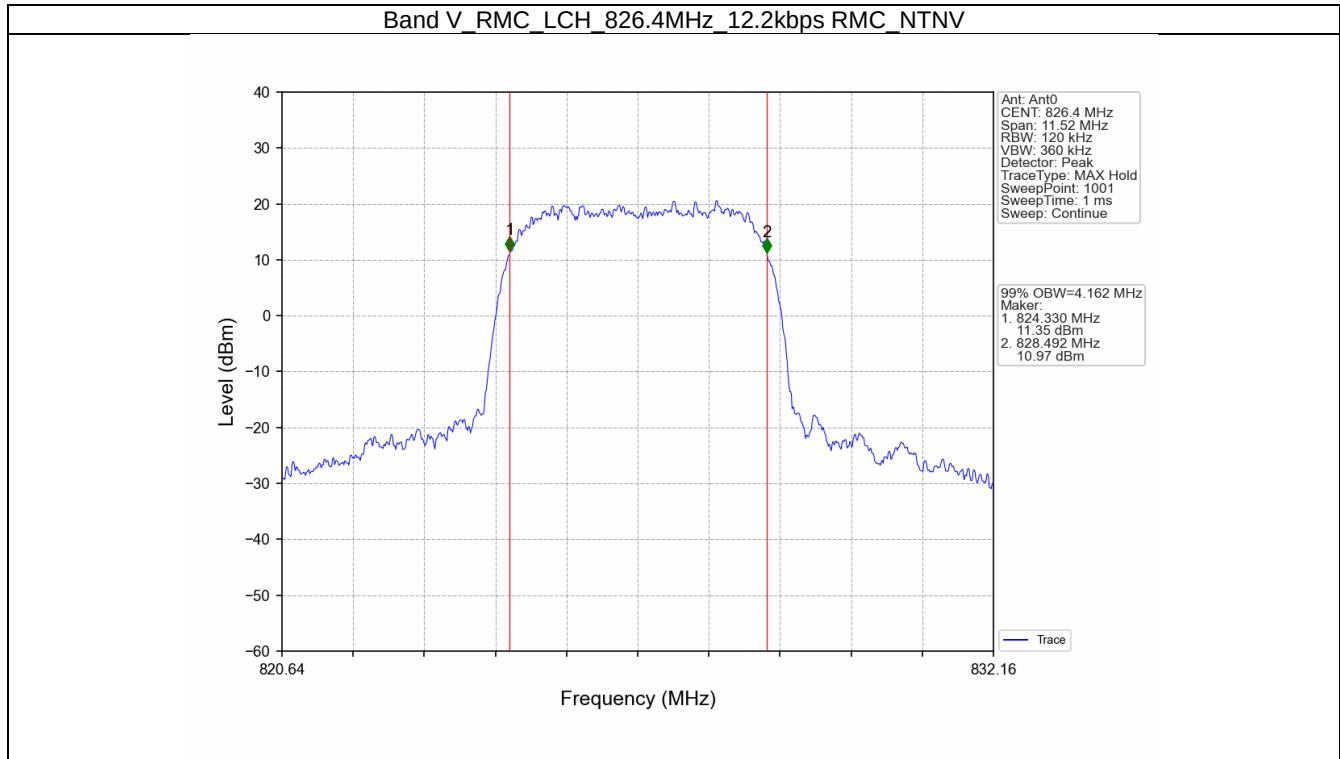
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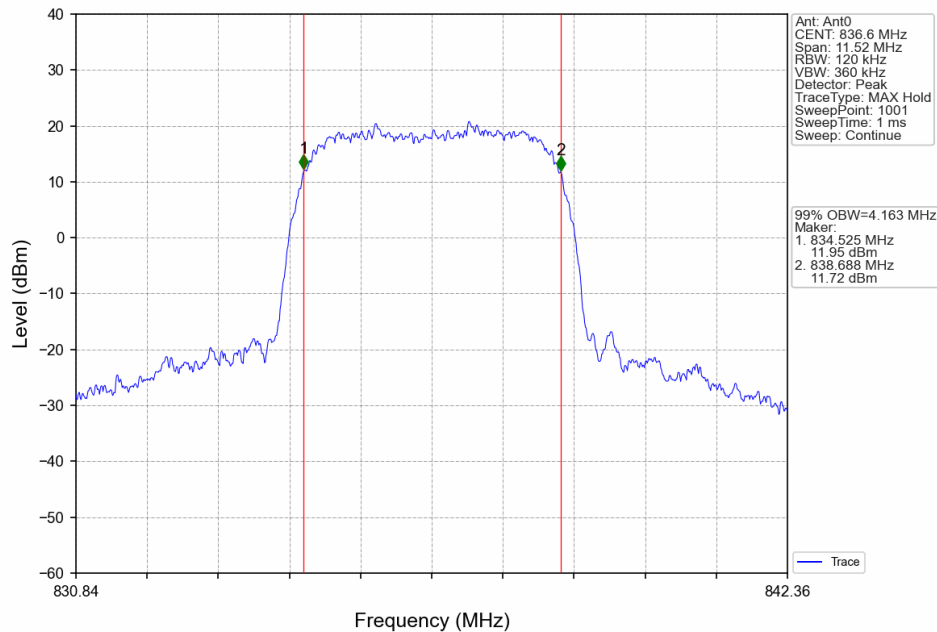
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Band V_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



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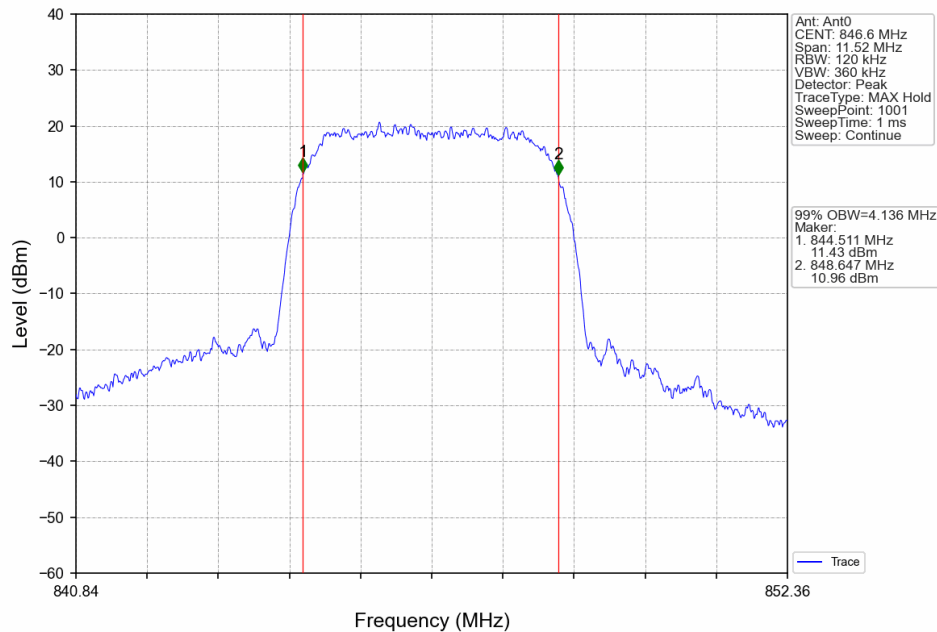
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Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



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Band V_XDB

Test Result

Band V					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	
	Network	Subset		Result	Limit
NTNV	RMC	12.2kbps RMC	826.4	4.766	/
			836.6	4.756	/
			846.6	4.755	/
					Pass
					Pass
					Pass



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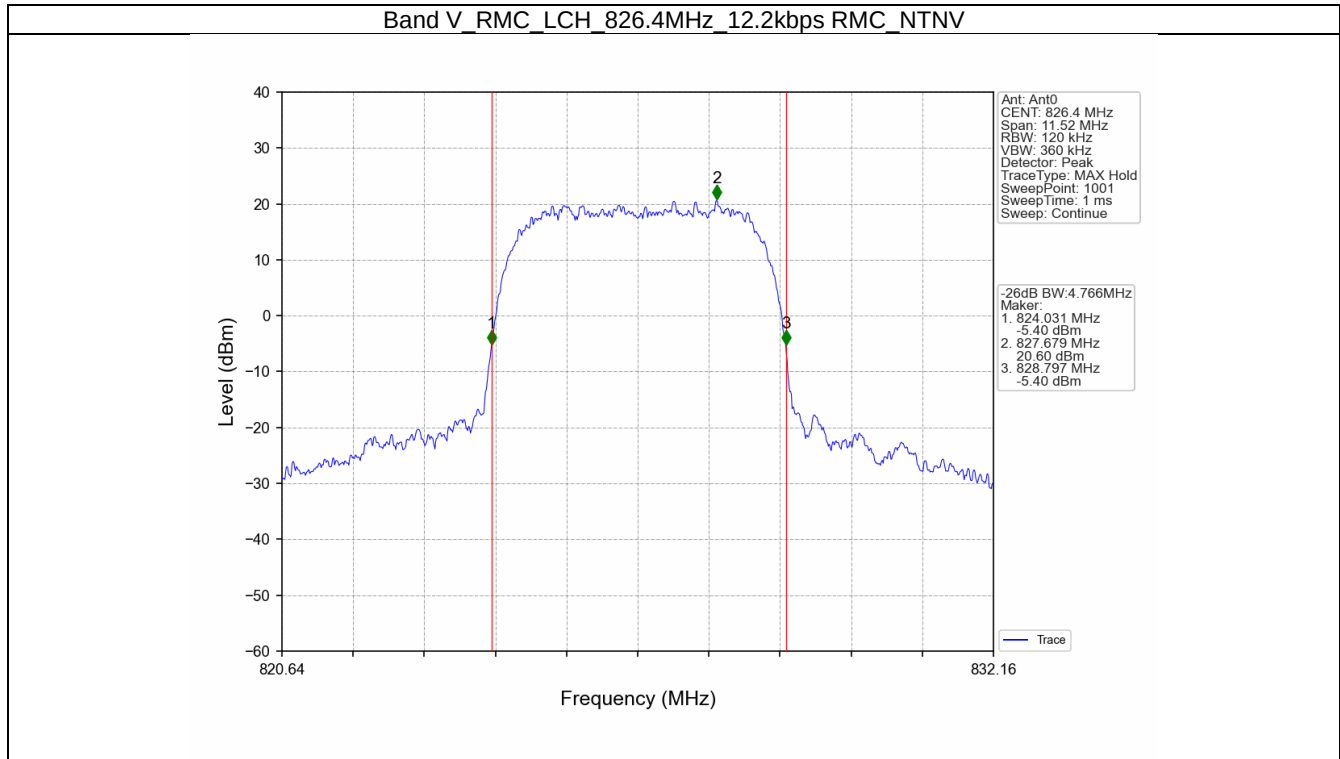
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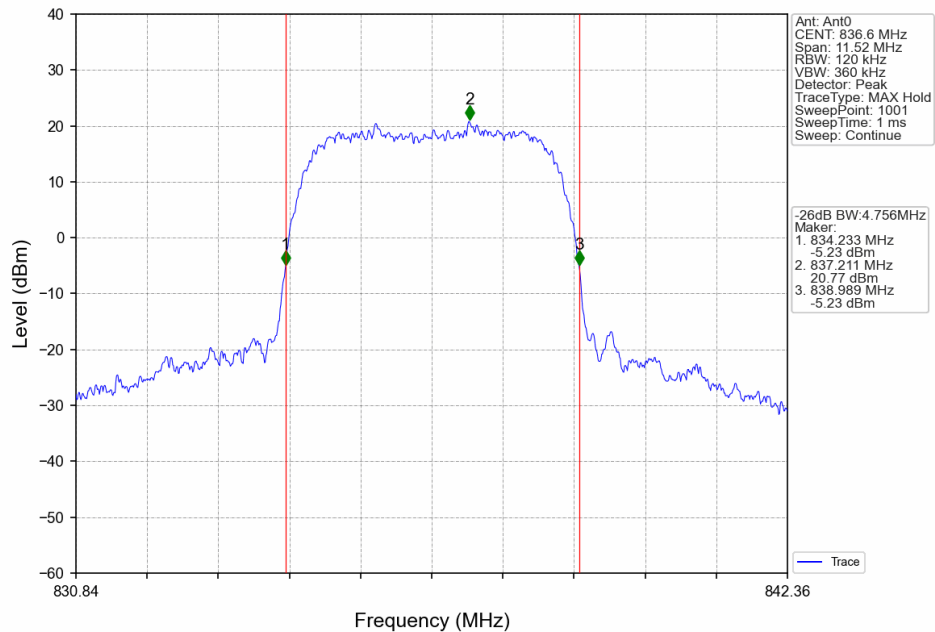
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Band V_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



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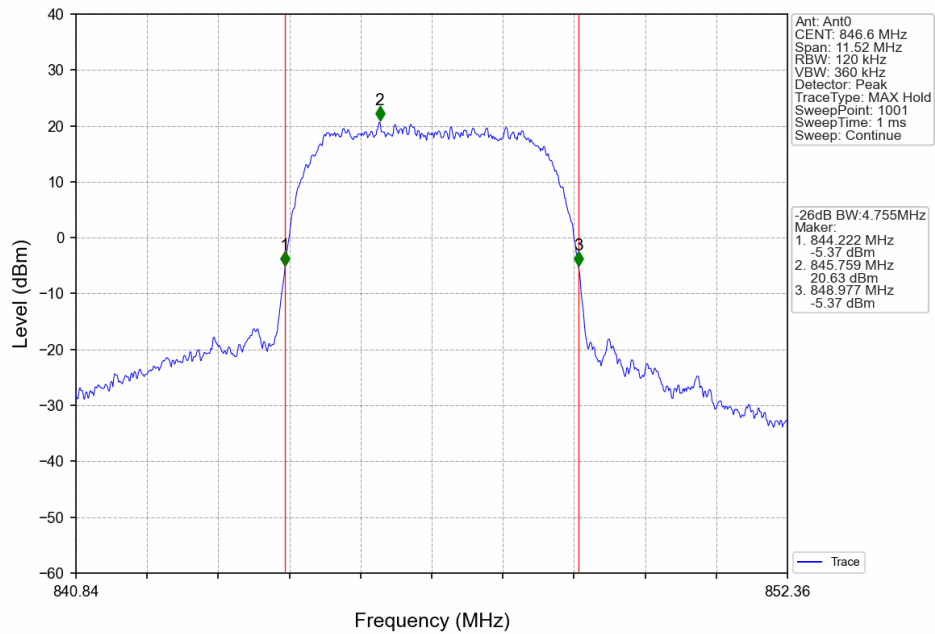
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Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



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Spurious Emission & Band Edge

Band V

Test Result

Band V					
ENV	Mode		Frequency (MHz)	Spurious Emission	
	Network	Subset		Result	Limit
NTNV	RMC	12.2kbps RMC	826.4	Refer To Test Graph	Pass
			836.6	Refer To Test Graph	Pass
			846.6	Refer To Test Graph	Pass



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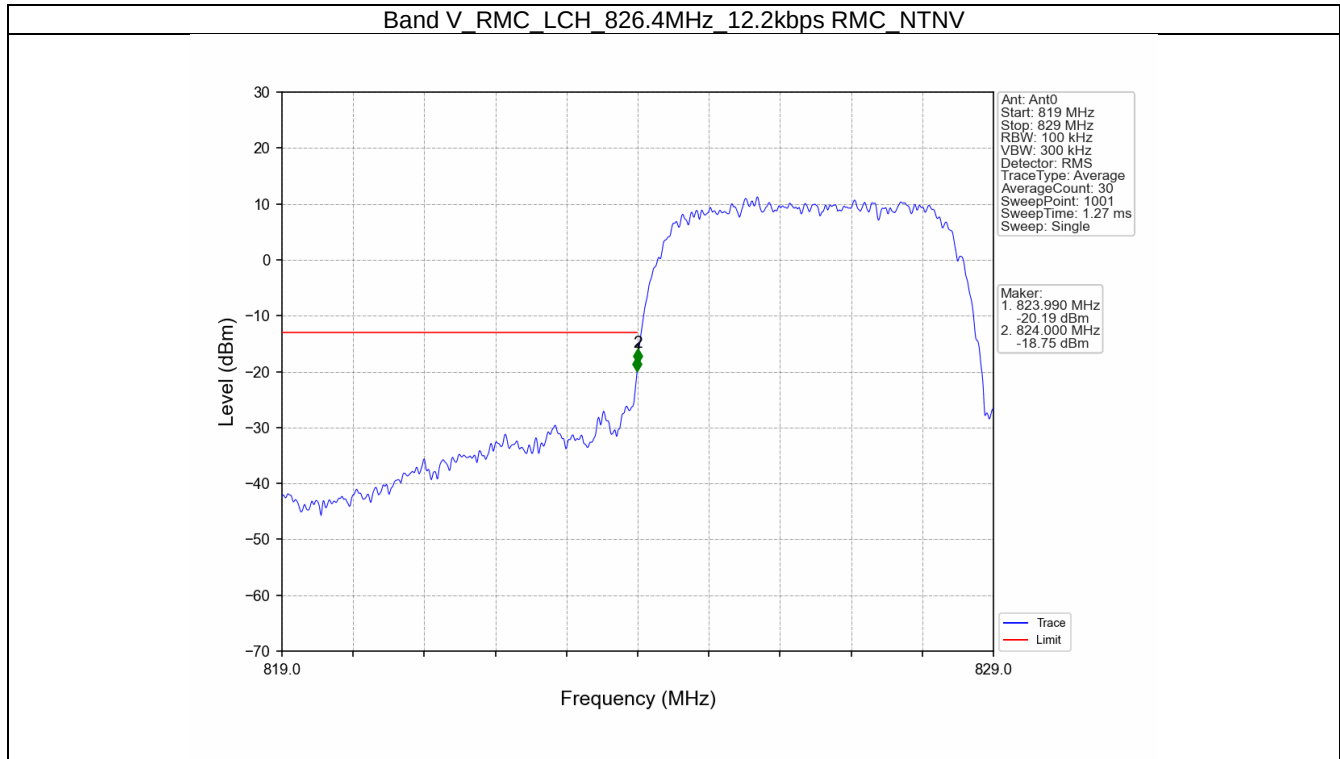
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Test Graph



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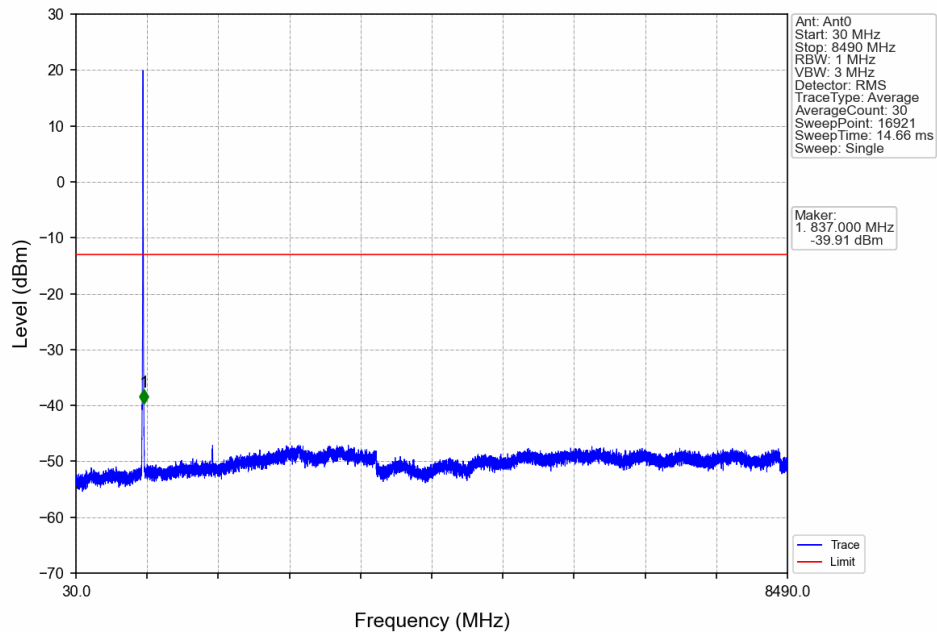


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Band V_RMC_LCH_826.4MHz_12.2kbps RMC_NTNV



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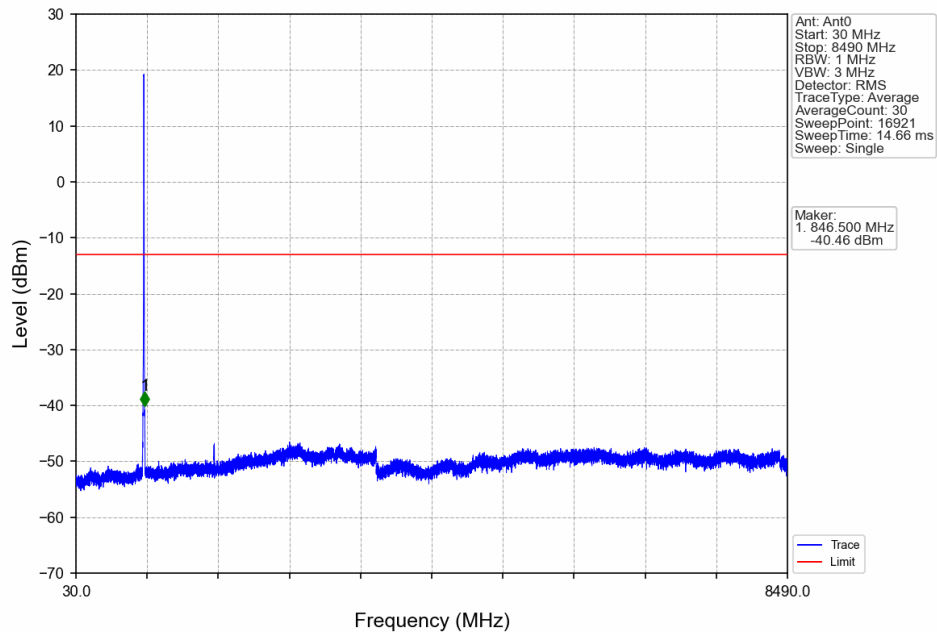


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Band V_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



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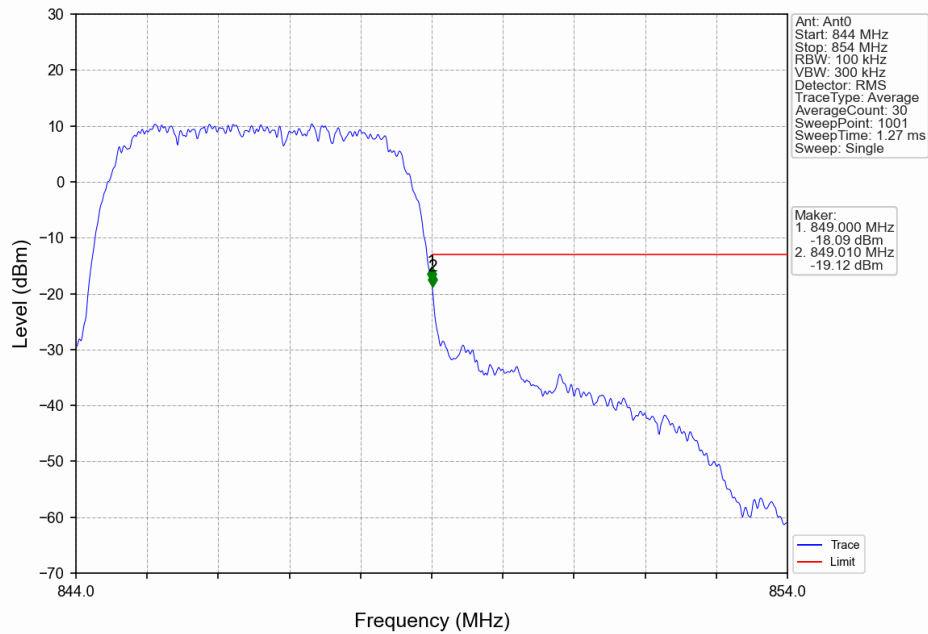
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Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



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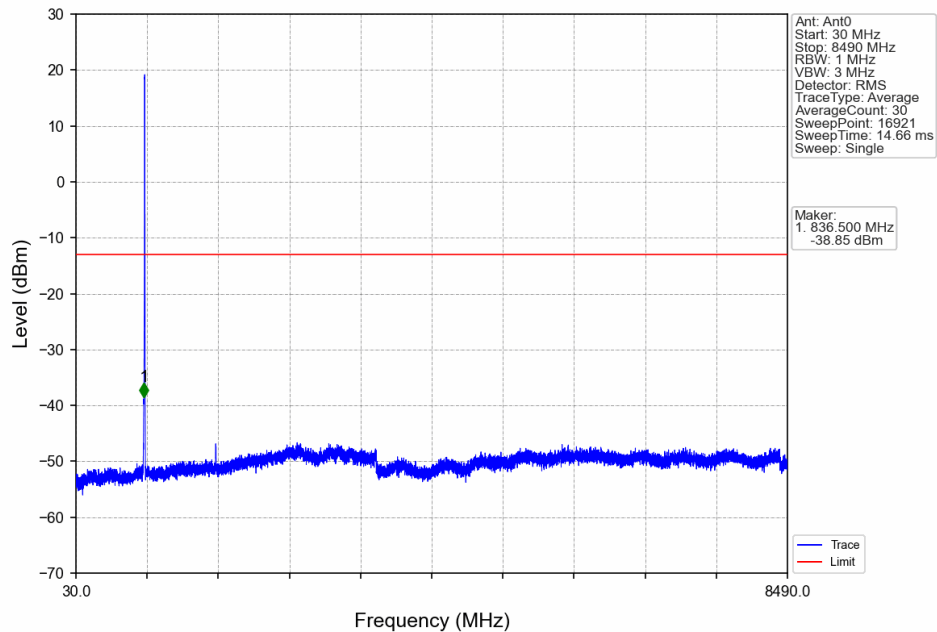


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Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



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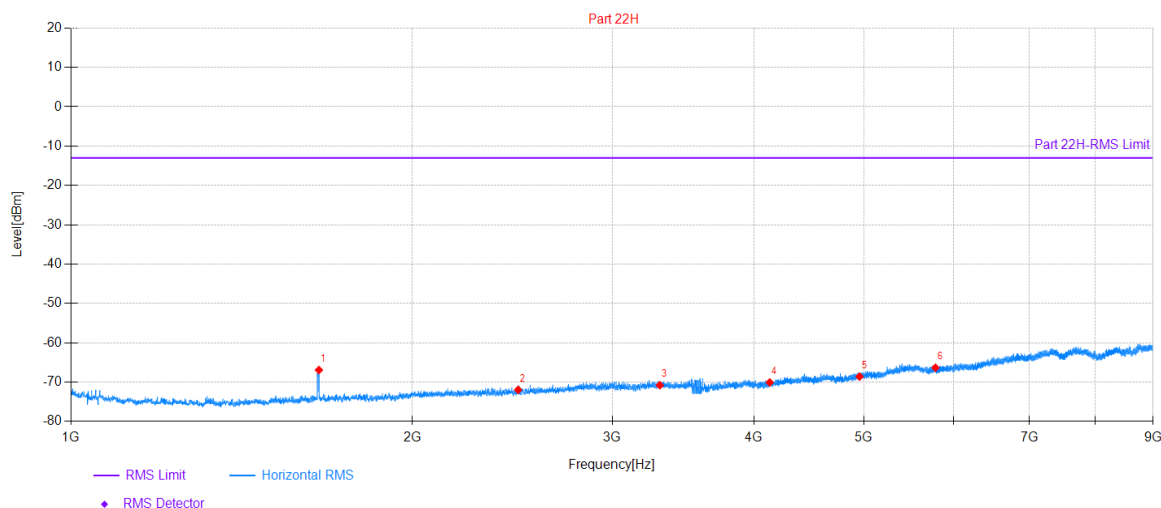
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Field Strength of Spurious Radiation

Test Band = WCDMA Band V_ 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	1654.2222	52.84	-49.82	25.32	-66.92	-13.00	53.92	Horizontal
2	2479.2	45.04	-49.02	27.28	-71.96	-13.00	58.96	Horizontal
3	3305.6	44.49	-48.63	28.62	-70.78	-13.00	57.78	Horizontal
4	4132	43.84	-48.29	29.64	-70.07	-13.00	57.07	Horizontal
5	4958.4	43.33	-48.05	31.40	-68.58	-13.00	55.58	Horizontal
6	5784.8	43.85	-47.69	32.76	-66.34	-13.00	53.34	Horizontal



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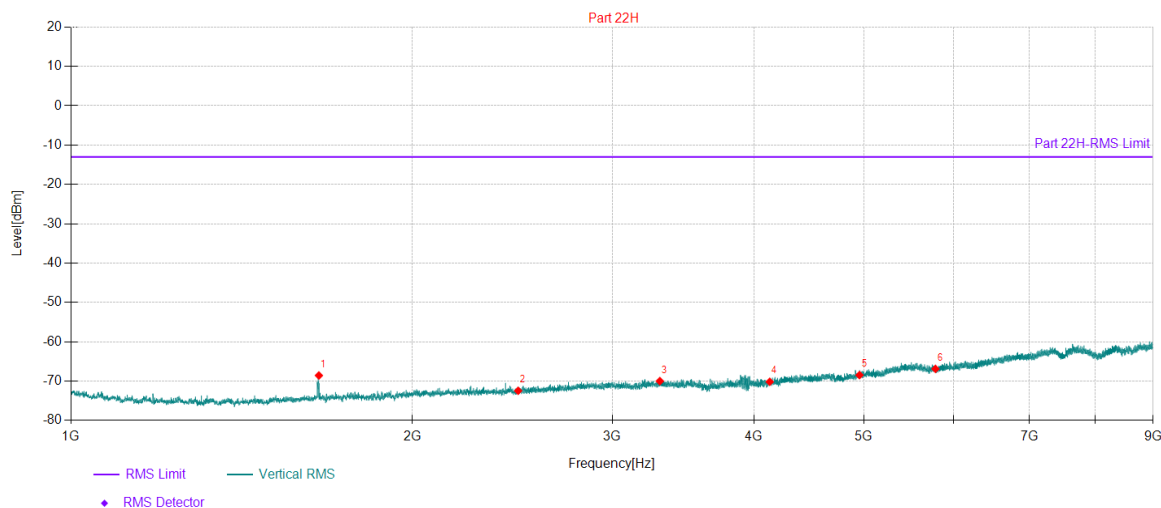
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Test Band = WCDMA Band V_ TM1

Test Channel = Low Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1654.2222	51.20	-49.82	25.32	-68.56	-13.00	55.56	Vertical
2	2479.2	44.55	-49.02	27.28	-72.45	-13.00	59.45	Vertical
3	3305.6	45.27	-48.63	28.62	-70.00	-13.00	57.00	Vertical
4	4132	43.75	-48.29	29.64	-70.16	-13.00	57.16	Vertical
5	4958.4	43.44	-48.05	31.40	-68.47	-13.00	55.47	Vertical
6	5784.8	43.31	-47.69	32.76	-66.88	-13.00	53.88	Vertical



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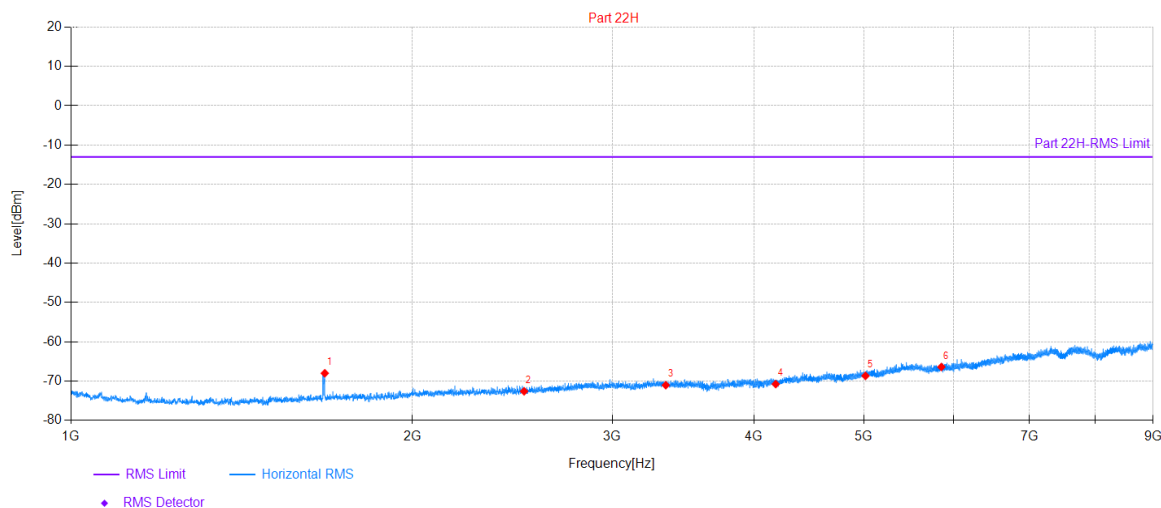
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Test Band = WCDMA Band V_ TM1

Test Channel = Mid Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1674.2222	51.64	-49.77	25.40	-68.00	-13.00	55.00	Horizontal
2	2509.2	44.28	-48.93	27.32	-72.58	-13.00	59.58	Horizontal
3	3345.6	44.25	-48.66	28.64	-71.03	-13.00	58.03	Horizontal
4	4182	43.12	-48.34	29.73	-70.75	-13.00	57.75	Horizontal
5	5018.4	43.02	-47.95	31.54	-68.65	-13.00	55.65	Horizontal
6	5854.8	43.42	-47.33	32.77	-66.40	-13.00	53.40	Horizontal



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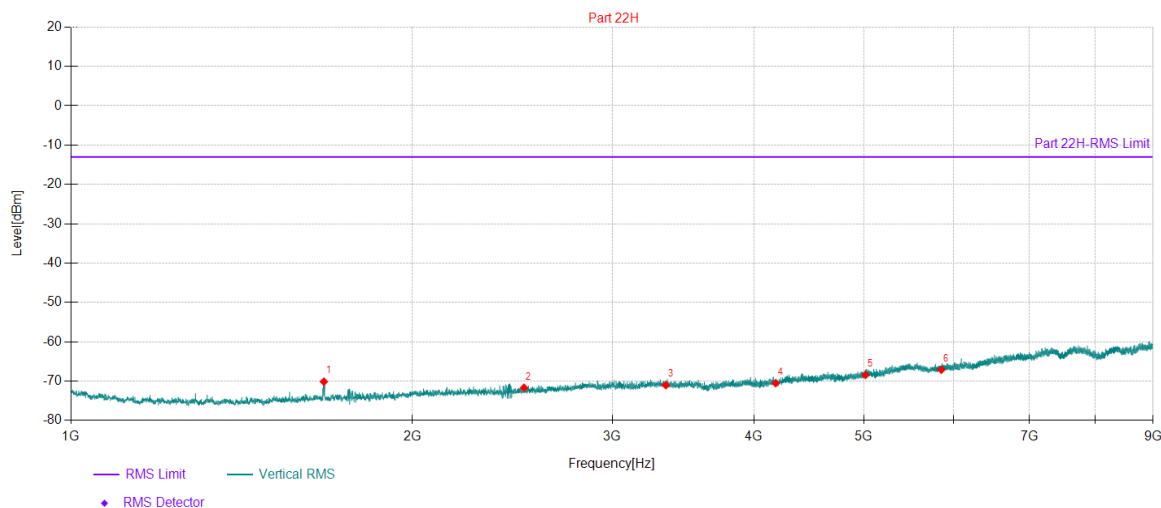
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Test Band = WCDMA Band V_ TM1

Test Channel = Mid Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1671.1111	49.53	-49.78	25.38	-70.13	-13.00	57.13	Vertical
2	2509.2	45.17	-48.93	27.32	-71.69	-13.00	58.69	Vertical
3	3345.6	44.27	-48.66	28.64	-71.01	-13.00	58.01	Vertical
4	4182	43.35	-48.34	29.73	-70.52	-13.00	57.52	Vertical
5	5018.4	43.25	-47.95	31.54	-68.42	-13.00	55.42	Vertical
6	5854.8	42.74	-47.33	32.77	-67.08	-13.00	54.08	Vertical



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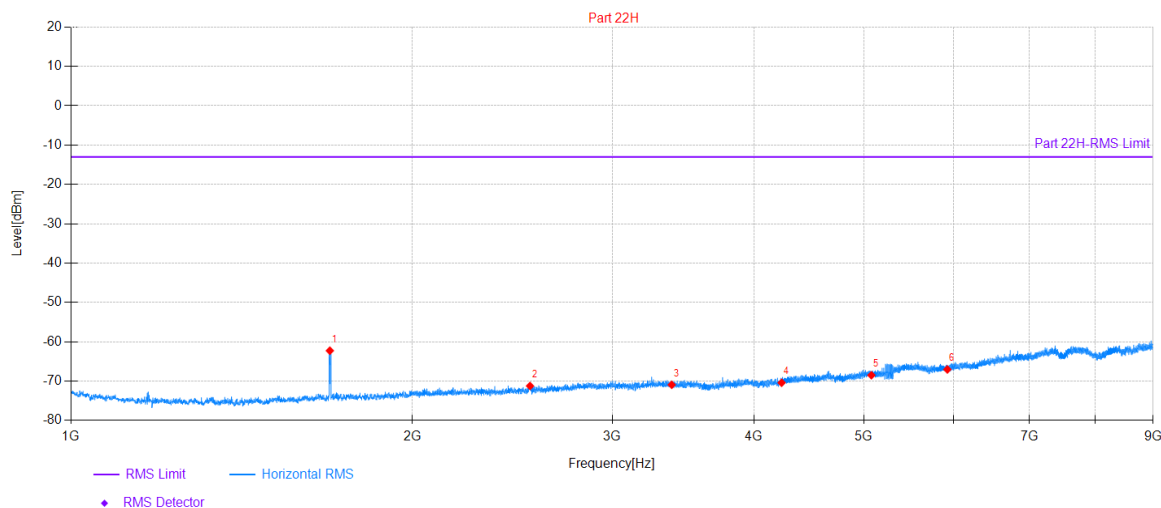
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Test Band = WCDMA Band V_ TM1

Test Channel = High Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1691.5556	57.27	-49.74	25.47	-62.26	-13.00	49.26	Horizontal
2	2539.8	45.64	-49.01	27.40	-71.23	-13.00	58.23	Horizontal
3	3386.4	44.36	-48.68	28.65	-70.93	-13.00	57.93	Horizontal
4	4233	43.28	-48.25	29.82	-70.41	-13.00	57.41	Horizontal
5	5079.6	43.00	-47.93	31.69	-68.50	-13.00	55.50	Horizontal
6	5926.2	42.63	-47.17	32.79	-67.02	-13.00	54.02	Horizontal



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中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn
t (86-512) 62992980 sgs.china@sgs.com

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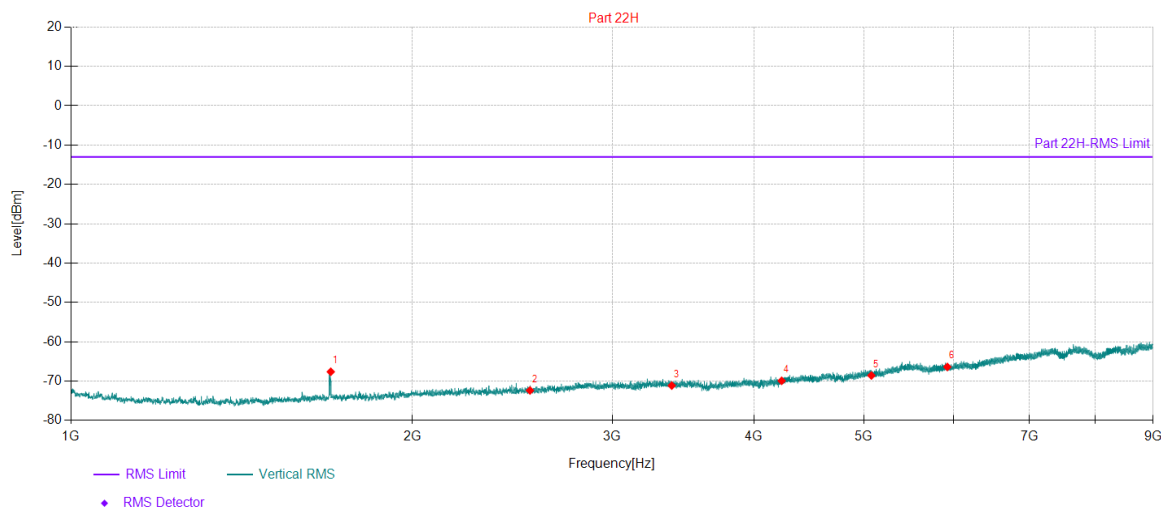
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Test Band = WCDMA Band V_ TM1

Test Channel = High Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1694.6667	51.89	-49.73	25.48	-67.62	-13.00	54.62	Vertical
2	2539.8	44.50	-49.01	27.40	-72.37	-13.00	59.37	Vertical
3	3386.4	44.16	-48.68	28.65	-71.13	-13.00	58.13	Vertical
4	4233	43.78	-48.25	29.82	-69.91	-13.00	56.91	Vertical
5	5079.6	42.93	-47.93	31.69	-68.57	-13.00	55.57	Vertical
6	5926.2	43.26	-47.17	32.79	-66.39	-13.00	53.39	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



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Frequency Stability Band V

Test Result

Band V							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	826.4	20	3.4	0.472	0.0006	-2.5 to 2.5	Pass
			3.89	0.501	0.0006	-2.5 to 2.5	Pass
			4.48	0.286	0.0003	-2.5 to 2.5	Pass
		-30	3.89	0.658	0.0008	-2.5 to 2.5	Pass
		-20	3.89	0.379	0.0005	-2.5 to 2.5	Pass
		-10	3.89	0.472	0.0006	-2.5 to 2.5	Pass
		0	3.89	0.522	0.0006	-2.5 to 2.5	Pass
		10	3.89	0.401	0.0005	-2.5 to 2.5	Pass
		30	3.89	0.601	0.0007	-2.5 to 2.5	Pass
		40	3.89	0.451	0.0005	-2.5 to 2.5	Pass
		50	3.89	0.544	0.0007	-2.5 to 2.5	Pass
	836.6	20	3.4	-1.101	-0.0013	-2.5 to 2.5	Pass
			3.89	-0.708	-0.0008	-2.5 to 2.5	Pass
			4.48	-1.059	-0.0013	-2.5 to 2.5	Pass
		-30	3.89	-0.780	-0.0009	-2.5 to 2.5	Pass
		-20	3.89	-0.801	-0.0010	-2.5 to 2.5	Pass
		-10	3.89	-0.429	-0.0005	-2.5 to 2.5	Pass
		0	3.89	-0.243	-0.0003	-2.5 to 2.5	Pass
		10	3.89	-0.622	-0.0007	-2.5 to 2.5	Pass
		30	3.89	-0.343	-0.0004	-2.5 to 2.5	Pass
		40	3.89	-0.579	-0.0007	-2.5 to 2.5	Pass
		50	3.89	-1.123	-0.0013	-2.5 to 2.5	Pass
	846.6	20	3.4	-1.373	-0.0016	-2.5 to 2.5	Pass
			3.89	-1.523	-0.0018	-2.5 to 2.5	Pass
			4.48	-1.395	-0.0016	-2.5 to 2.5	Pass
		-30	3.89	-1.624	-0.0019	-2.5 to 2.5	Pass
		-20	3.89	-1.545	-0.0018	-2.5 to 2.5	Pass
		-10	3.89	-1.788	-0.0021	-2.5 to 2.5	Pass
		0	3.89	-1.552	-0.0018	-2.5 to 2.5	Pass
		10	3.89	-1.531	-0.0018	-2.5 to 2.5	Pass
		30	3.89	-1.631	-0.0019	-2.5 to 2.5	Pass
		40	3.89	-1.566	-0.0018	-2.5 to 2.5	Pass
		50	3.89	-1.738	-0.0021	-2.5 to 2.5	Pass

---End of Attachment---



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