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Appendix B.3

WCDMA Band V



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1. Effective (Isotropic) Radiated Power Output Data

1.1 Band V_ERP

1.1.1 Test Result

Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band V	4132	23.47	24	38.45	PASS
Band V	4182	24.17	24.7	38.45	PASS
Band V	4233	23.39	23.92	38.45	PASS



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2. Frequency Stability

2.1 Band V

2.1.1 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	3.135	0.416	0.0005	-2.5 to 2.5	Pass
			3.7	0.656	0.0008	-2.5 to 2.5	Pass
			4.4	0.443	0.0005	-2.5 to 2.5	Pass
		-30	3.7	0.758	0.0009	-2.5 to 2.5	Pass
		-20	3.7	0.439	0.0005	-2.5 to 2.5	Pass
		-10	3.7	0.404	0.0005	-2.5 to 2.5	Pass
		0	3.7	0.482	0.0006	-2.5 to 2.5	Pass
		10	3.7	0.821	0.0010	-2.5 to 2.5	Pass
		30	3.7	0.717	0.0009	-2.5 to 2.5	Pass
		40	3.7	0.758	0.0009	-2.5 to 2.5	Pass
		50	3.7	0.796	0.0010	-2.5 to 2.5	Pass
	836.6	20	3.135	-0.244	-0.0003	-2.5 to 2.5	Pass
			3.7	-0.331	-0.0004	-2.5 to 2.5	Pass
			4.4	-0.479	-0.0006	-2.5 to 2.5	Pass
		-30	3.7	-0.122	-0.0001	-2.5 to 2.5	Pass
		-20	3.7	-0.237	-0.0003	-2.5 to 2.5	Pass
		-10	3.7	-0.407	-0.0005	-2.5 to 2.5	Pass
		0	3.7	-0.047	-0.0001	-2.5 to 2.5	Pass
		10	3.7	-0.435	-0.0005	-2.5 to 2.5	Pass
		30	3.7	-0.377	-0.0005	-2.5 to 2.5	Pass
		40	3.7	0.063	0.0001	-2.5 to 2.5	Pass
		50	3.7	-0.348	-0.0004	-2.5 to 2.5	Pass
	846.6	20	3.135	-1.120	-0.0013	-2.5 to 2.5	Pass
			3.7	-1.113	-0.0013	-2.5 to 2.5	Pass
			4.4	-1.285	-0.0015	-2.5 to 2.5	Pass
		-30	3.7	-1.043	-0.0012	-2.5 to 2.5	Pass
		-20	3.7	-1.195	-0.0014	-2.5 to 2.5	Pass
		-10	3.7	-1.072	-0.0013	-2.5 to 2.5	Pass
		0	3.7	-1.053	-0.0012	-2.5 to 2.5	Pass
		10	3.7	-1.111	-0.0013	-2.5 to 2.5	Pass
		30	3.7	-1.551	-0.0018	-2.5 to 2.5	Pass
		40	3.7	-1.281	-0.0015	-2.5 to 2.5	Pass
		50	3.7	-1.082	-0.0013	-2.5 to 2.5	Pass



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3. 99% & 26dB Bandwidth

3.1 Band V_OBW

3.1.1 Test Result

Band V						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	4.146	/	Pass
			836.6	4.139	/	Pass
			846.6	4.144	/	Pass



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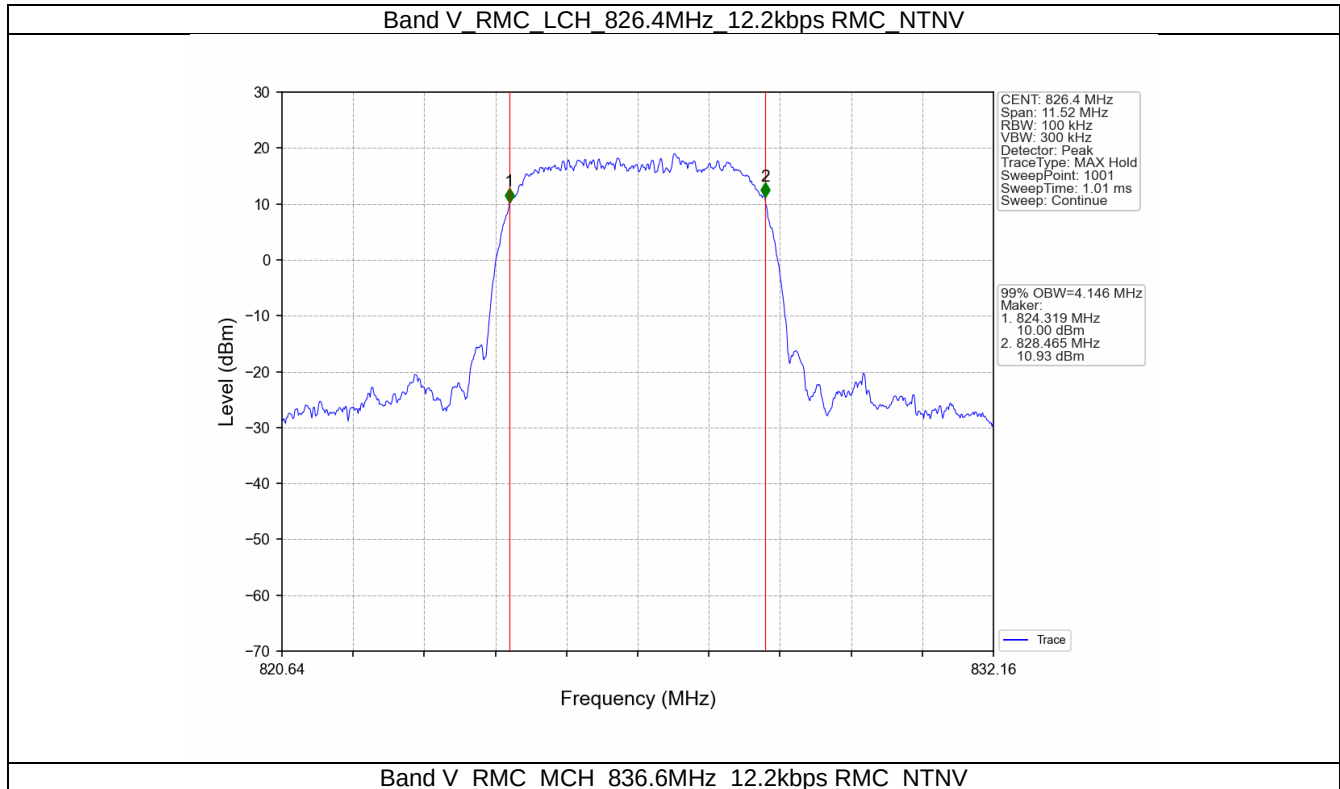
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3.1.2 Test Graph



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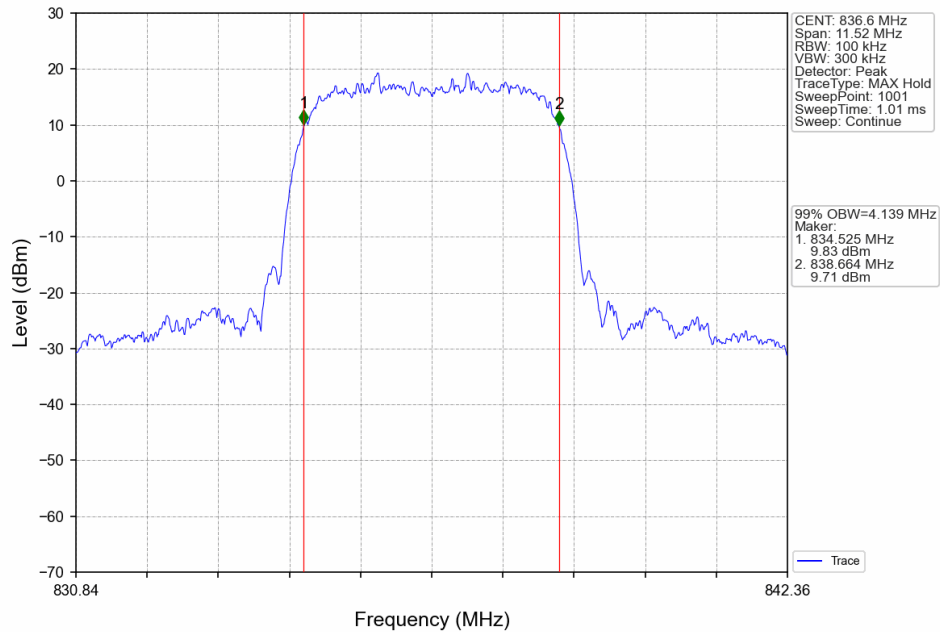
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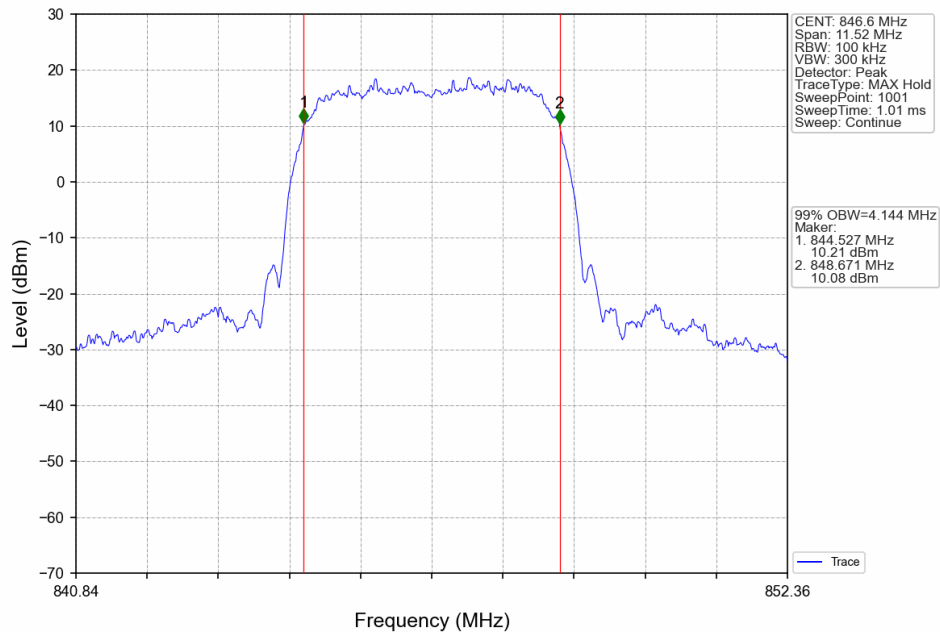
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Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



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3.2 Band V_XDB

3.2.1 Test Result

Band V					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	
	Network	Subset		Result	Limit
NTNV	RMC	12.2kbps RMC	826.4	4.730	/
			836.6	4.713	/
			846.6	4.733	/
					Pass
					Pass
					Pass



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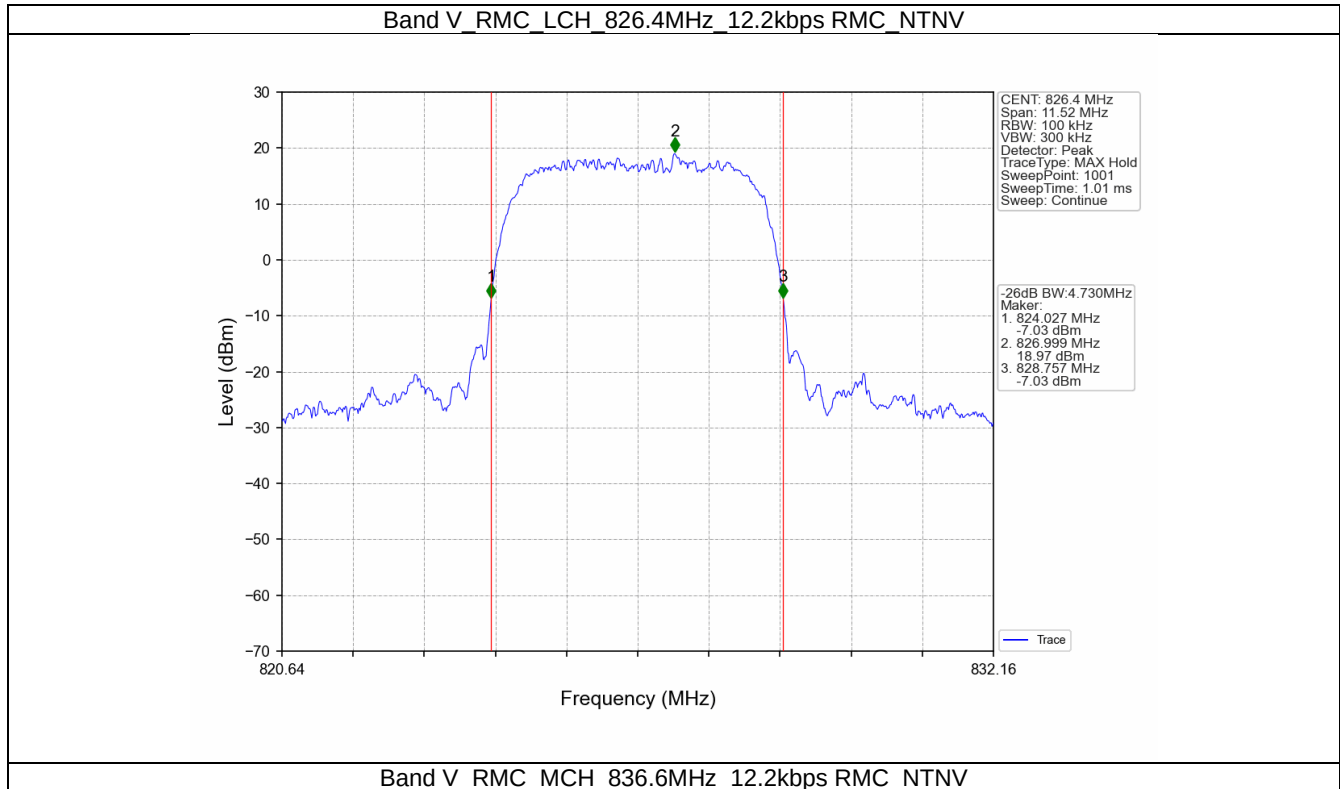
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3.2.2 Test Graph



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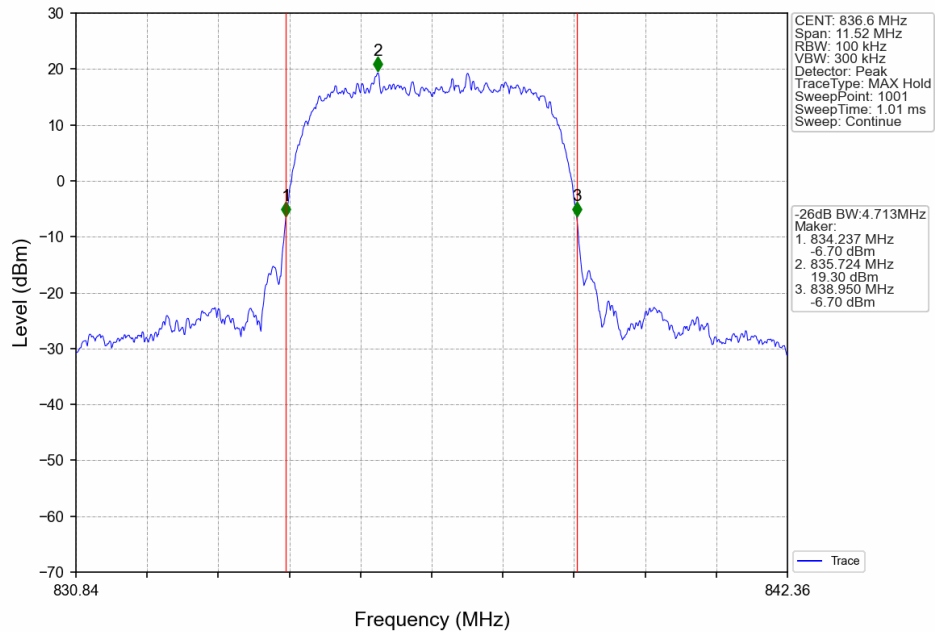
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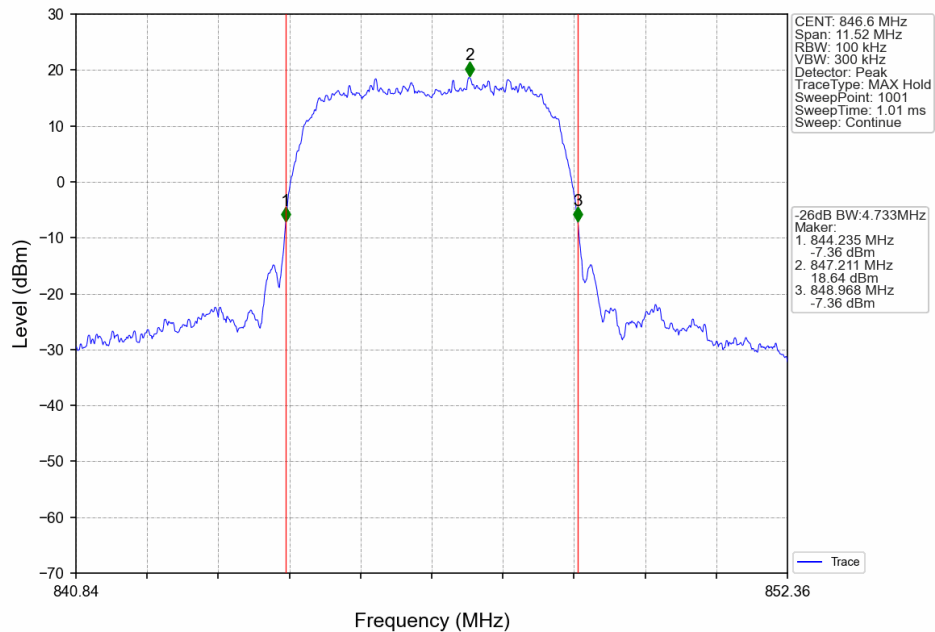
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Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



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4. Peak-Average Ratio

4.1 Band V

4.1.1 Test Result

Band V						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	2.90	<=13	Pass
			836.6	2.84	<=13	Pass
			846.6	3.04	<=13	Pass



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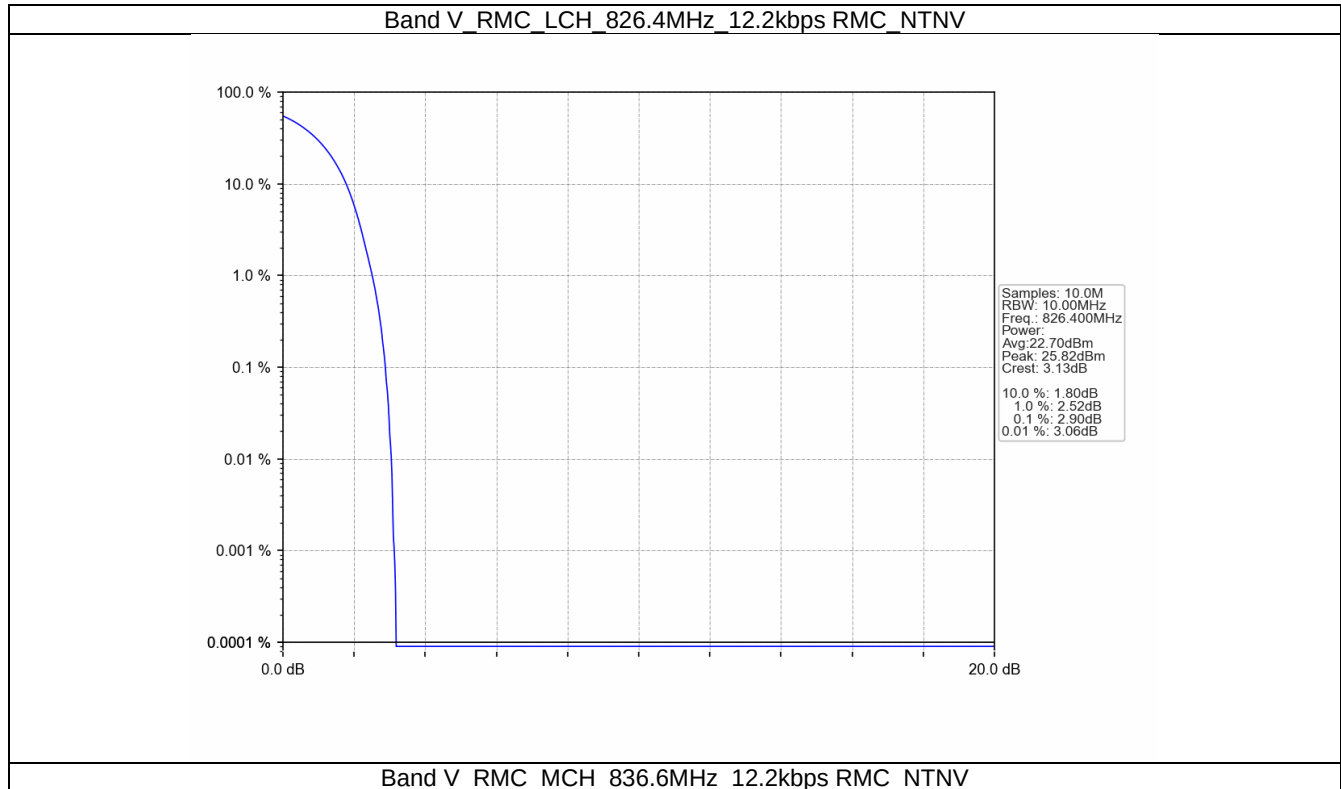
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4.1.2 Test Graph



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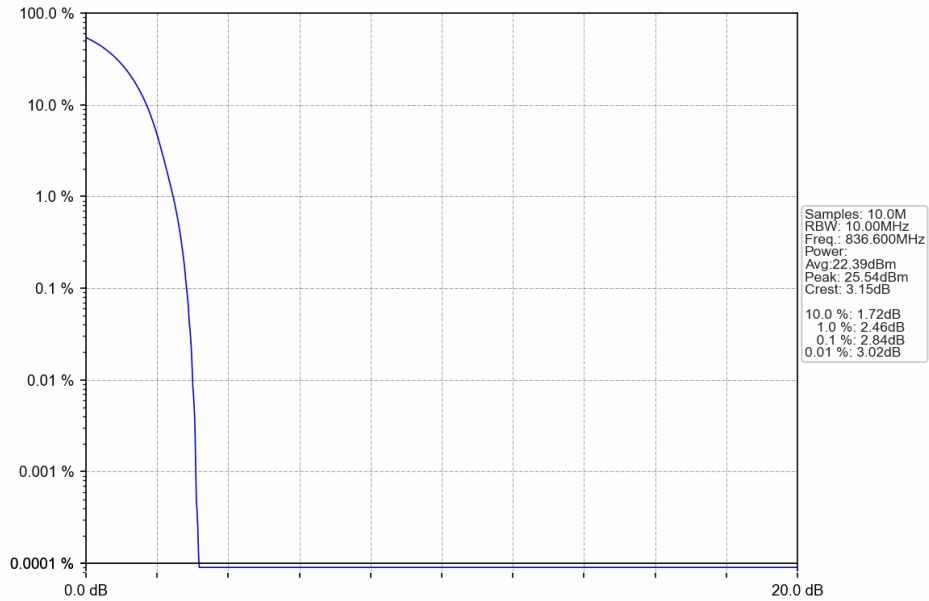
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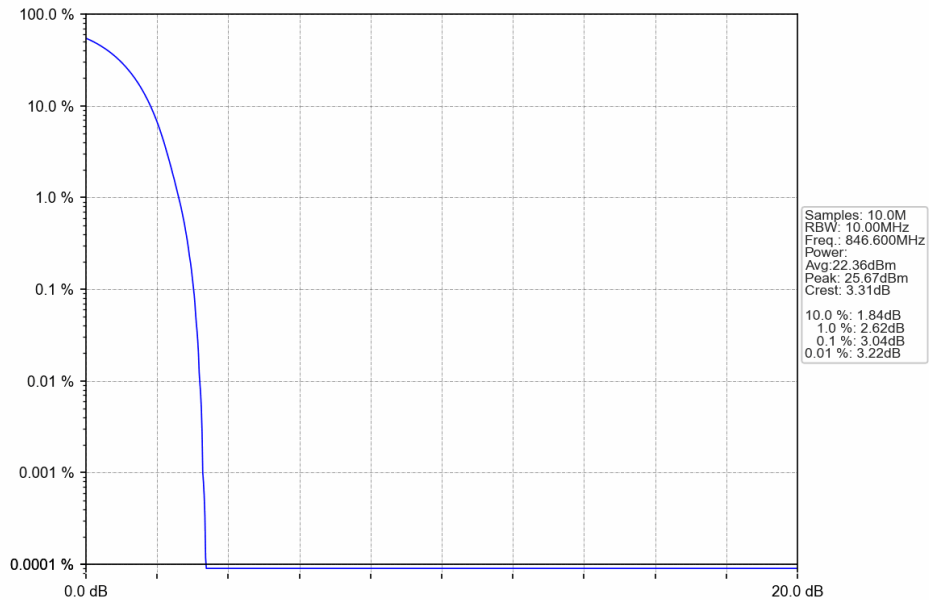
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Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



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5. Spurious Emission & Band Edges

5.1 Band V

5.1.1 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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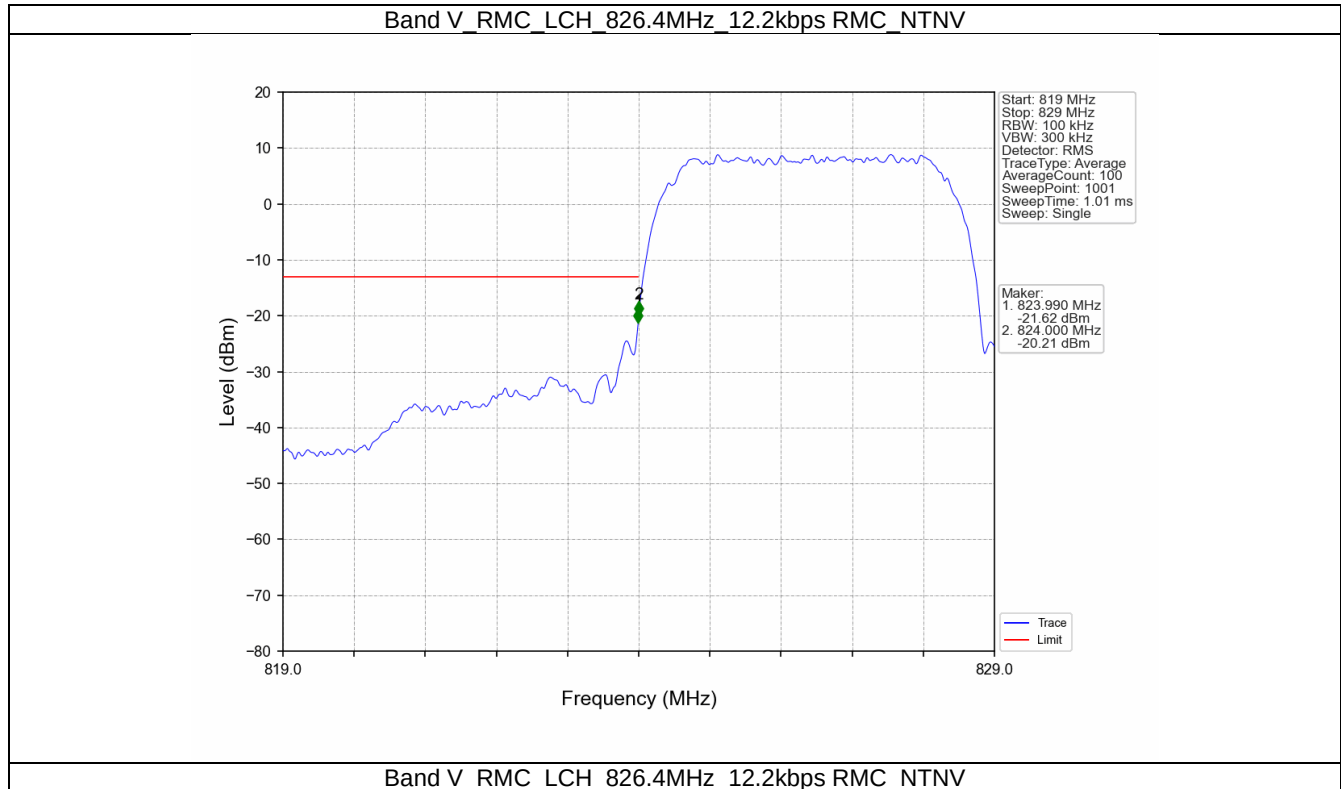
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5.1.2 Test Graph



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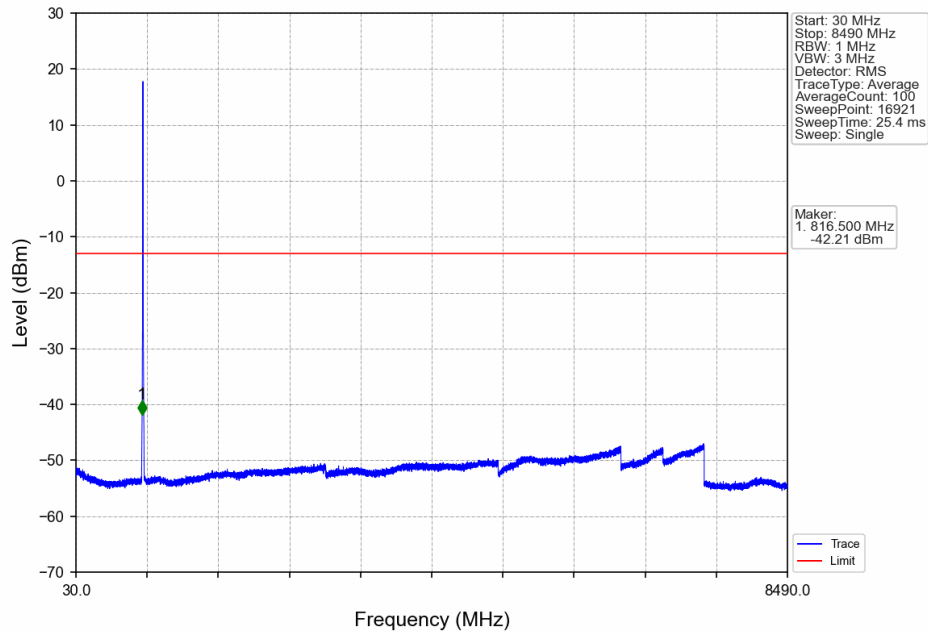
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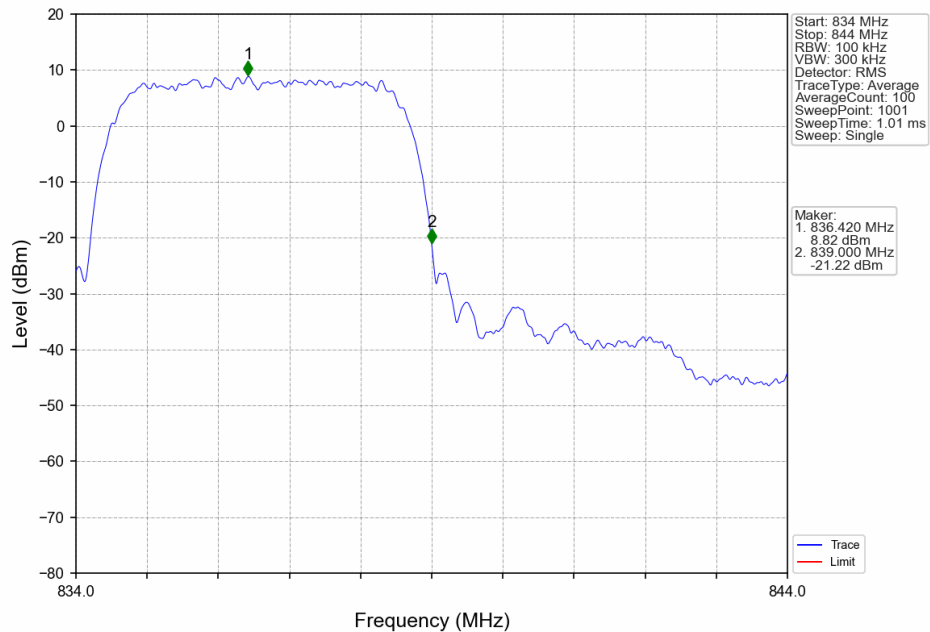
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Band V_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



Band V_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



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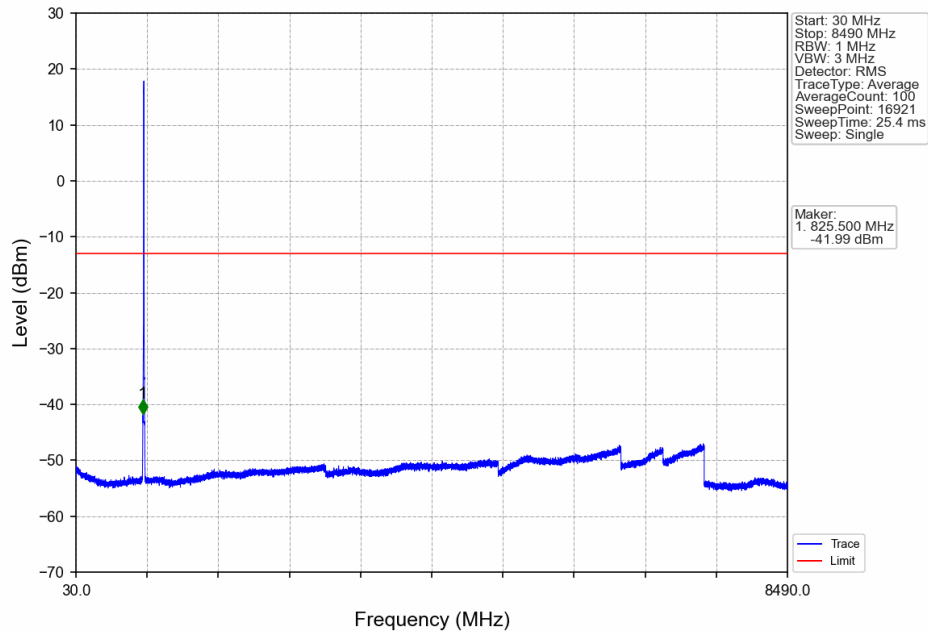
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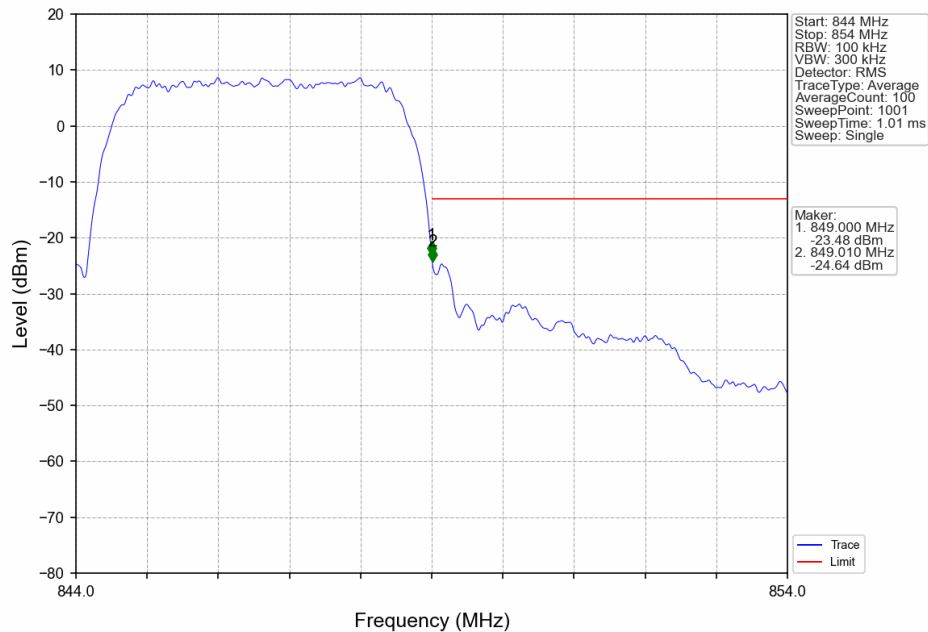
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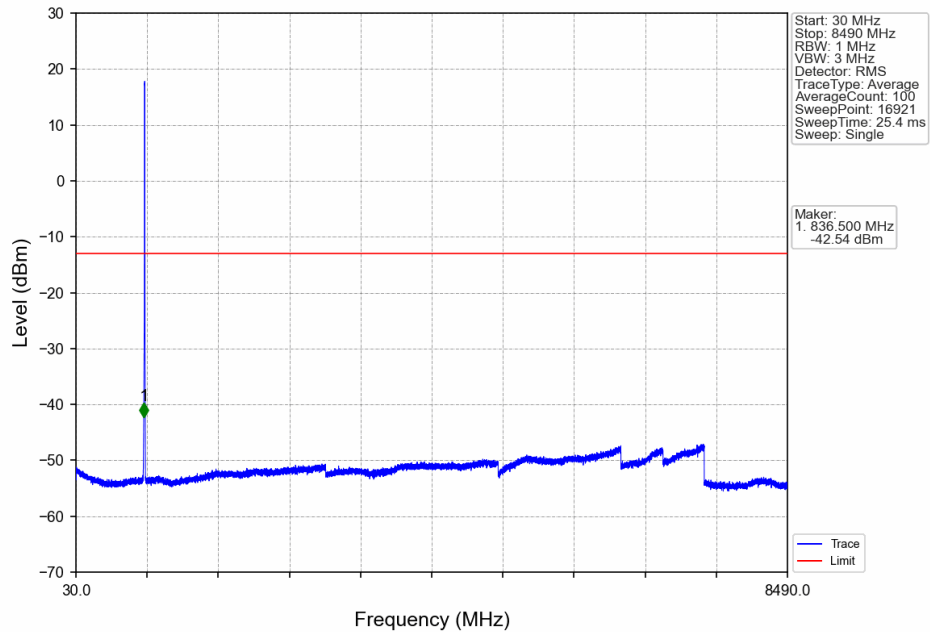
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6. Field Strength of Spurious Radiation

Test Band = WCDMA_ Band V
Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1114.5	60.17	-54.02	25.83	-63.28	-13.00	50.28	Horizontal
2	1651.5	55.47	-53.11	25.90	-67.00	-13.00	54.00	Horizontal
3	2476	55.58	-51.87	27.95	-63.60	-13.00	50.60	Horizontal
4	4182	52.17	-47.80	31.36	-59.53	-13.00	46.53	Horizontal
5	5145.5	52.15	-45.11	33.59	-54.63	-13.00	41.63	Horizontal
6	8942.5	49.35	-40.42	38.47	-47.86	-13.00	34.86	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1159	55.32	-53.61	25.85	-67.70	-13.00	54.70	Vertical
2	1875	54.91	-53.09	25.85	-67.59	-13.00	54.59	Vertical
3	2746.5	53.36	-51.18	28.69	-64.39	-13.00	51.39	Vertical
4	3734.5	53.19	-49.21	30.44	-60.84	-13.00	47.84	Vertical
5	5072.5	52.10	-44.65	33.45	-54.36	-13.00	41.36	Vertical
6	7579.5	50.00	-42.17	36.74	-50.69	-13.00	37.69	Vertical



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Test Band = WCDMA_ Band V

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1084	61.17	-54.03	25.77	-62.35	-13.00	49.35	Horizontal
2	1671	55.93	-53.16	25.86	-66.63	-13.00	53.63	Horizontal
3	2512	56.10	-51.76	28.07	-62.85	-13.00	49.85	Horizontal
4	4257	52.02	-47.45	32.06	-58.63	-13.00	45.63	Horizontal
5	7019	50.70	-43.41	36.42	-51.55	-13.00	38.55	Horizontal
6	9480	48.95	-39.47	39.12	-46.66	-13.00	33.66	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1766	57.80	-53.19	25.56	-65.09	-13.00	52.09	Vertical
2	2389	54.27	-52.16	27.82	-65.33	-13.00	52.33	Vertical
3	3044	52.84	-50.36	29.89	-62.89	-13.00	49.89	Vertical
4	4517.5	52.19	-46.34	31.91	-57.50	-13.00	44.50	Vertical
5	6091.5	50.64	-44.28	34.48	-54.42	-13.00	41.42	Vertical
6	8450	50.07	-41.61	38.00	-48.80	-13.00	35.80	Vertical



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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号厂房南部 邮编: 215000

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

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Test Band = WCDMA Band V
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1113.5	60.53	-54.03	25.83	-62.93	-13.00	49.93	Horizontal
2	1691.5	56.12	-53.21	25.82	-66.53	-13.00	53.53	Horizontal
3	2537.5	56.37	-51.66	28.23	-62.32	-13.00	49.32	Horizontal
4	3984.5	52.14	-48.16	31.04	-60.24	-13.00	47.24	Horizontal
5	6075.5	50.41	-44.05	34.45	-54.45	-13.00	41.45	Horizontal
6	9089.5	48.67	-39.73	38.70	-47.62	-13.00	34.62	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1779	61.75	-53.12	25.62	-61.01	-13.00	48.01	Vertical
2	2196.5	54.18	-52.54	27.68	-65.94	-13.00	52.94	Vertical
3	3306.5	52.82	-49.82	30.57	-61.69	-13.00	48.69	Vertical
4	4835	51.83	-44.71	32.68	-55.46	-13.00	42.46	Vertical
5	5885	50.91	-44.46	34.24	-54.57	-13.00	41.57	Vertical
6	8540.5	49.44	-40.84	38.87	-47.79	-13.00	34.79	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

---End of Attachment---



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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 sgs.china@sgs.com

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