

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 Band5_ERP

Band: 5								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	23.97	-0.84	21.82	<=38.45	Pass
			836.6	23.88	-0.84	21.73	<=38.45	Pass
			846.6	24.02	-0.84	21.87	<=38.45	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

2. Frequency Stability

2.1 Test Result

2.1.1 Band5

Band: 5							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	826.4	20	3.27	-1.431	-0.0017	-2.5 to 2.5	Pass
			3.85	-1.476	-0.0018	-2.5 to 2.5	Pass
			4.43	-1.360	-0.0016	-2.5 to 2.5	Pass
		-30	3.85	-1.516	-0.0018	-2.5 to 2.5	Pass
		-20	3.85	-1.870	-0.0023	-2.5 to 2.5	Pass
		-10	3.85	-1.465	-0.0018	-2.5 to 2.5	Pass
		0	3.85	-1.692	-0.0020	-2.5 to 2.5	Pass
		10	3.85	-1.489	-0.0018	-2.5 to 2.5	Pass
		30	3.85	-1.911	-0.0023	-2.5 to 2.5	Pass
		40	3.85	-1.476	-0.0018	-2.5 to 2.5	Pass
		50	3.85	-1.481	-0.0018	-2.5 to 2.5	Pass
	836.6	20	3.27	-1.705	-0.0020	-2.5 to 2.5	Pass
			3.85	-1.621	-0.0019	-2.5 to 2.5	Pass
			4.43	-1.610	-0.0019	-2.5 to 2.5	Pass
		-30	3.85	-1.819	-0.0022	-2.5 to 2.5	Pass
		-20	3.85	-1.655	-0.0020	-2.5 to 2.5	Pass
		-10	3.85	-1.601	-0.0019	-2.5 to 2.5	Pass
		0	3.85	-1.641	-0.0020	-2.5 to 2.5	Pass
		10	3.85	-1.845	-0.0022	-2.5 to 2.5	Pass
		30	3.85	-1.935	-0.0023	-2.5 to 2.5	Pass
		40	3.85	-1.730	-0.0021	-2.5 to 2.5	Pass
		50	3.85	-1.504	-0.0018	-2.5 to 2.5	Pass
	846.6	20	3.27	-0.999	-0.0012	-2.5 to 2.5	Pass
			3.85	-0.664	-0.0008	-2.5 to 2.5	Pass
			4.43	-0.657	-0.0008	-2.5 to 2.5	Pass
		-30	3.85	-0.911	-0.0011	-2.5 to 2.5	Pass
		-20	3.85	-0.841	-0.0010	-2.5 to 2.5	Pass
		-10	3.85	-0.750	-0.0009	-2.5 to 2.5	Pass
		0	3.85	-1.136	-0.0013	-2.5 to 2.5	Pass
		10	3.85	-0.670	-0.0008	-2.5 to 2.5	Pass
		30	3.85	-1.174	-0.0014	-2.5 to 2.5	Pass
		40	3.85	-0.969	-0.0011	-2.5 to 2.5	Pass
		50	3.85	-1.076	-0.0013	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band5_OBW

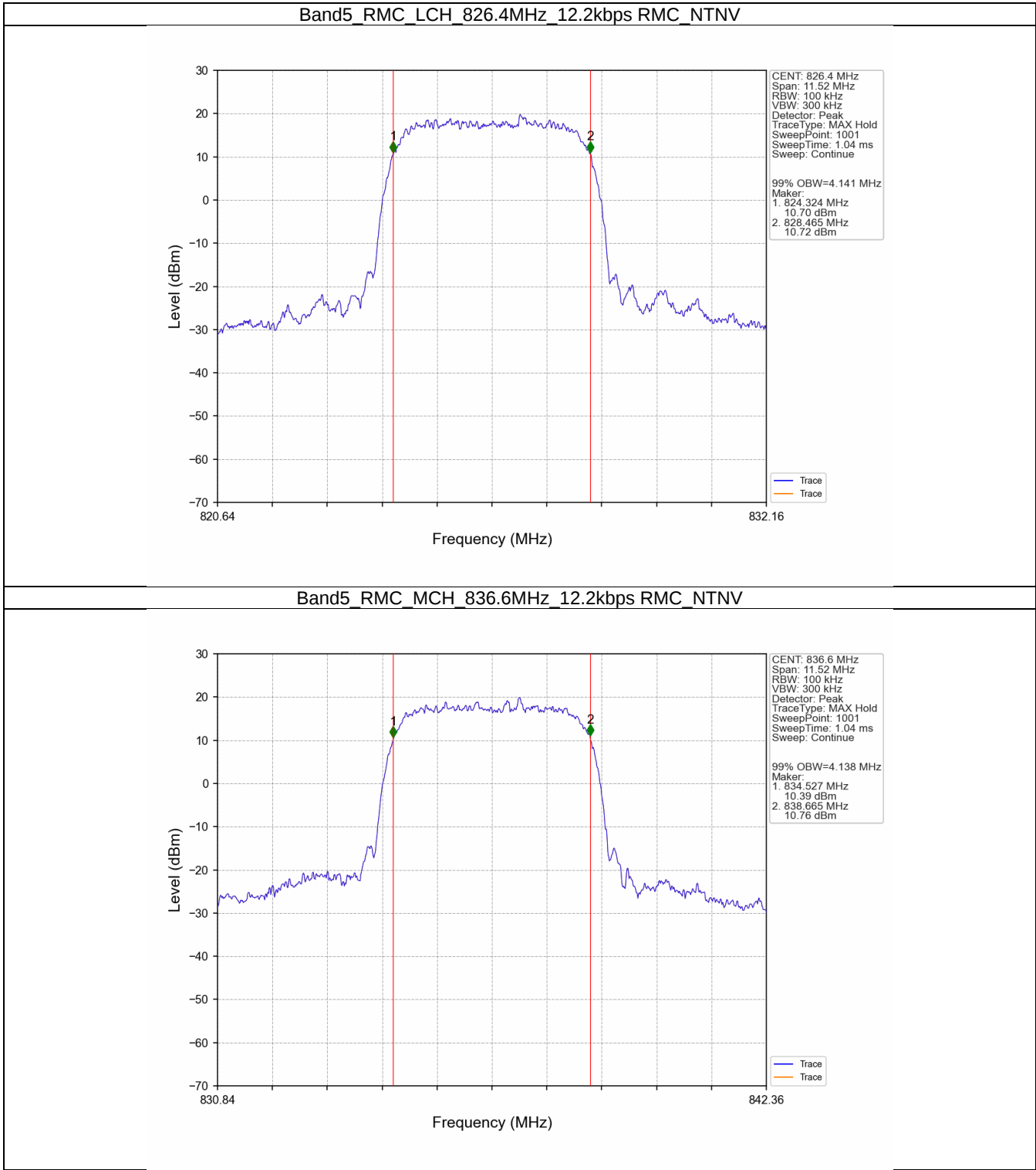
Band: 5						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	4.141	/	Pass
			836.6	4.138	/	Pass
			846.6	4.145	/	Pass

3.1.2 Band5_XDB

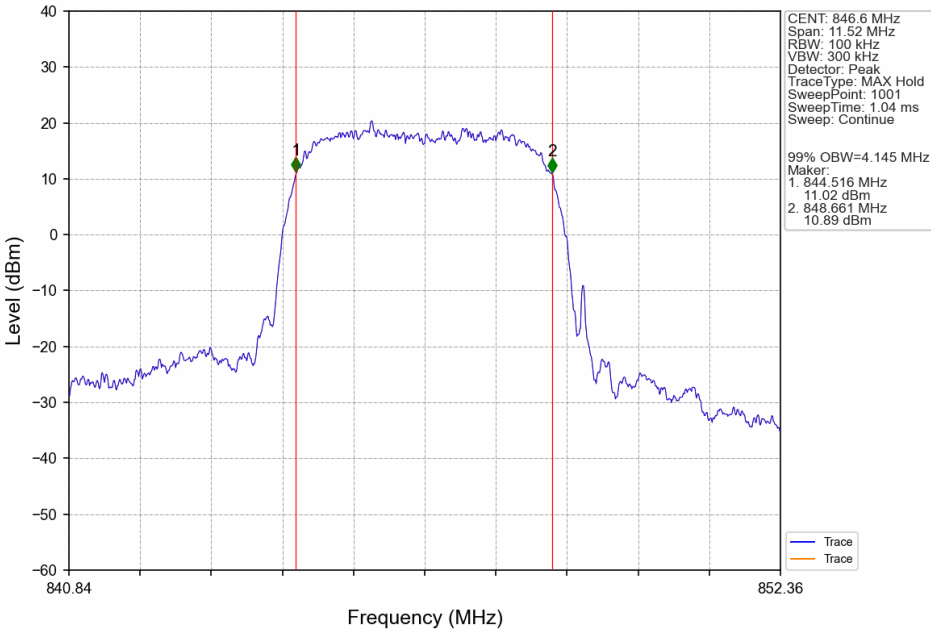
Band: 5						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	4.737	/	Pass
			836.6	4.709	/	Pass
			846.6	4.707	/	Pass

3.2 Test Graph

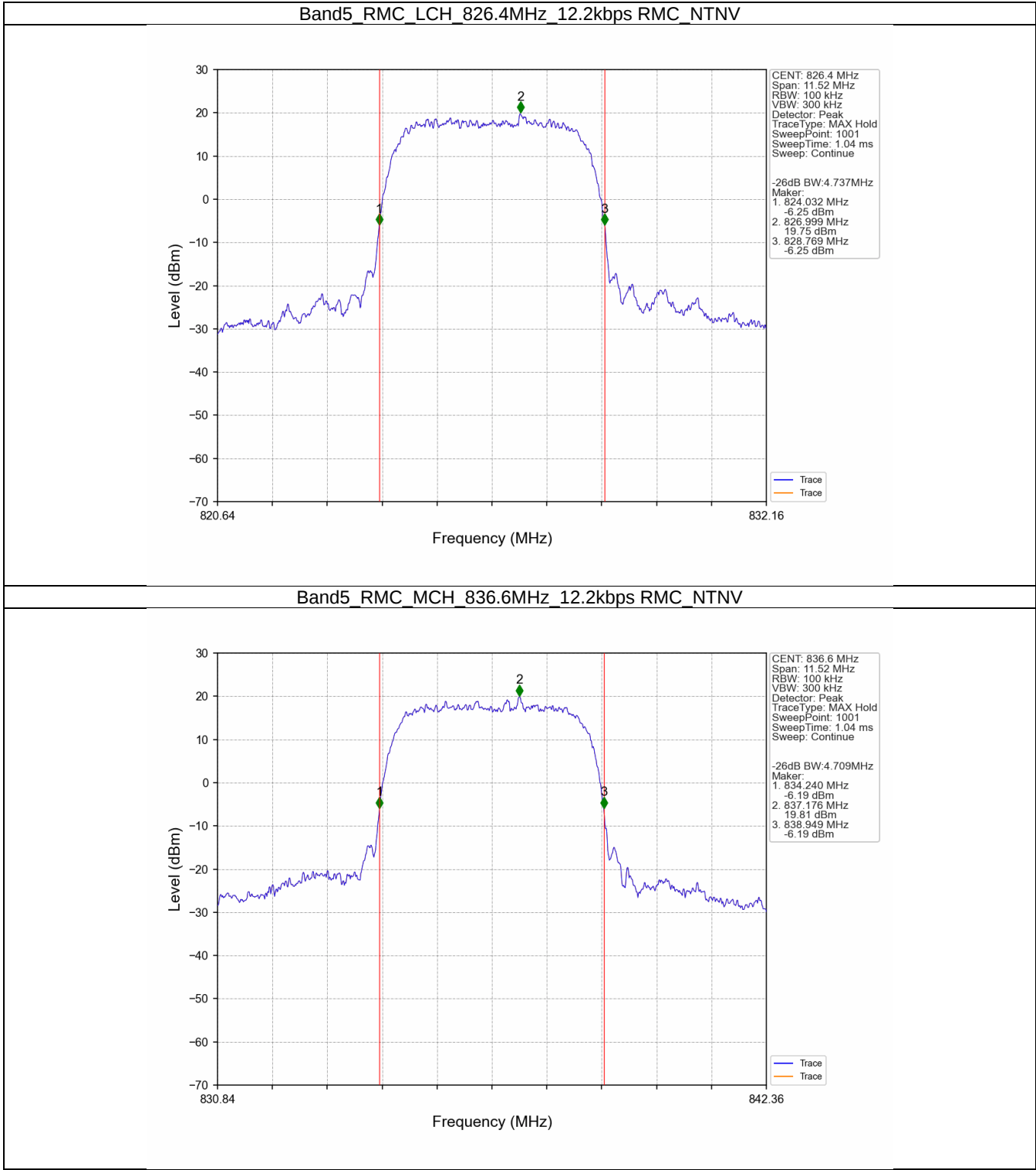
3.2.1 Band5_OBW



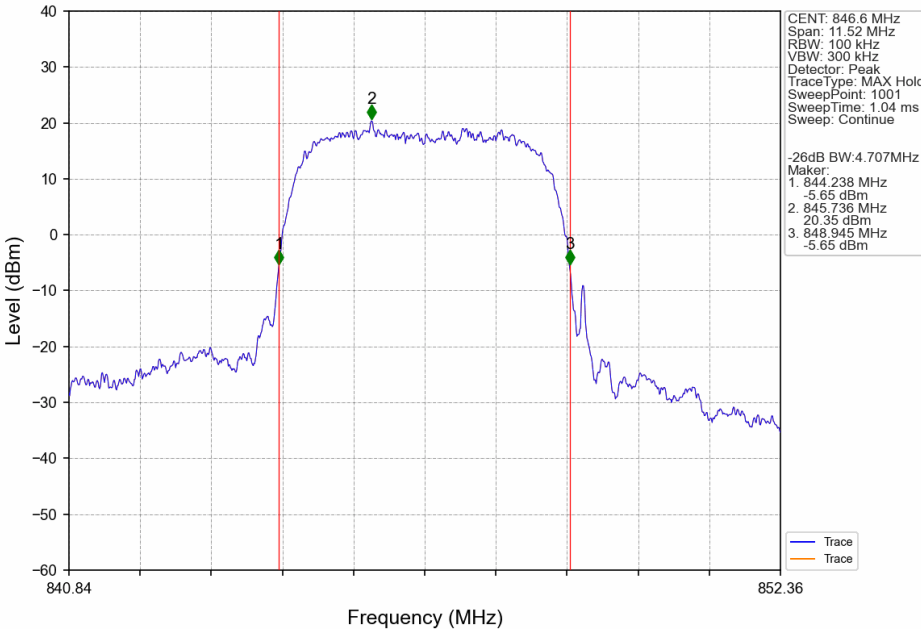
Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



3.2.2 Band5_XDB



Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



4. Peak-Average Ratio

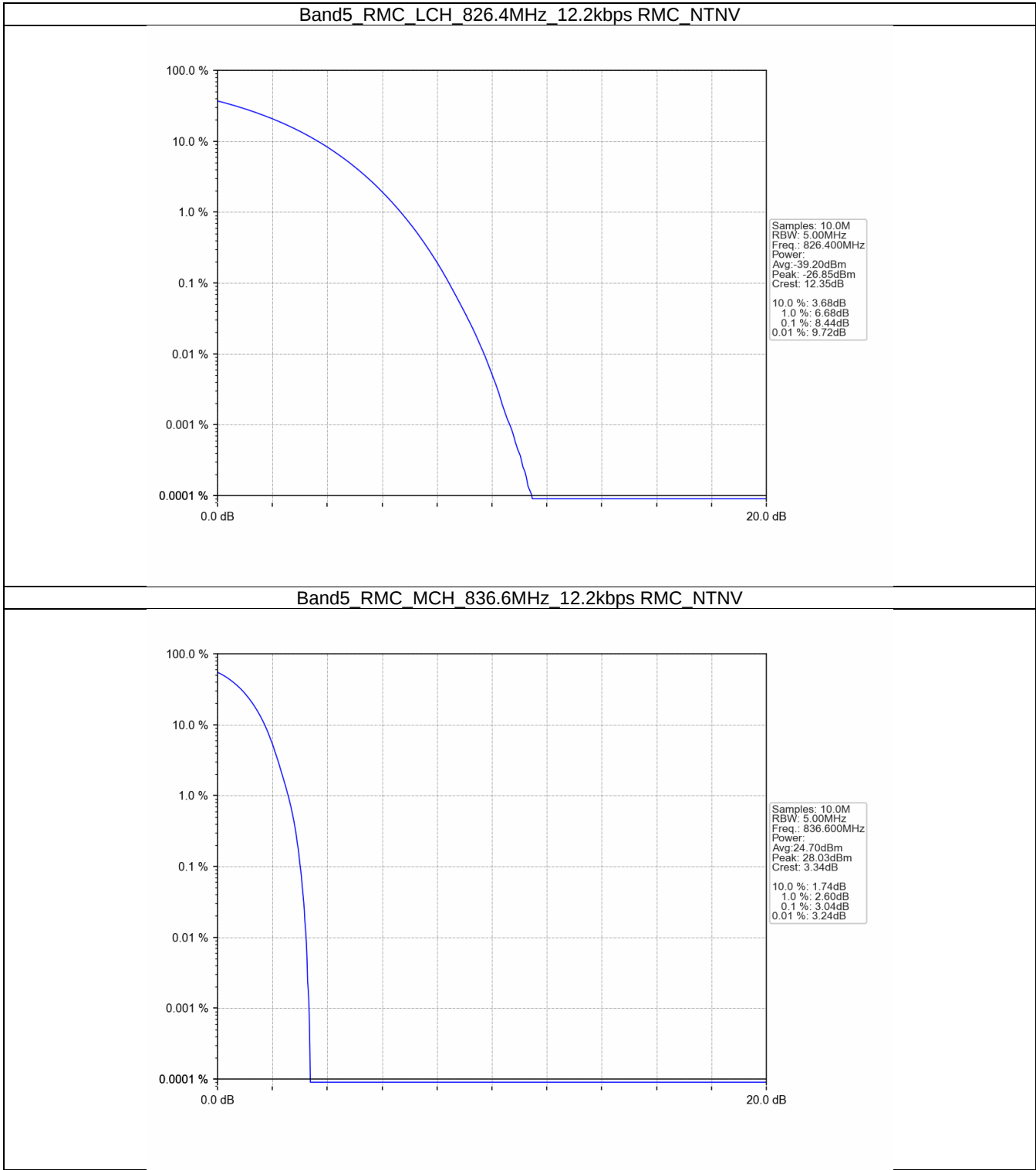
4.1 Test Result

4.1.1 Band5

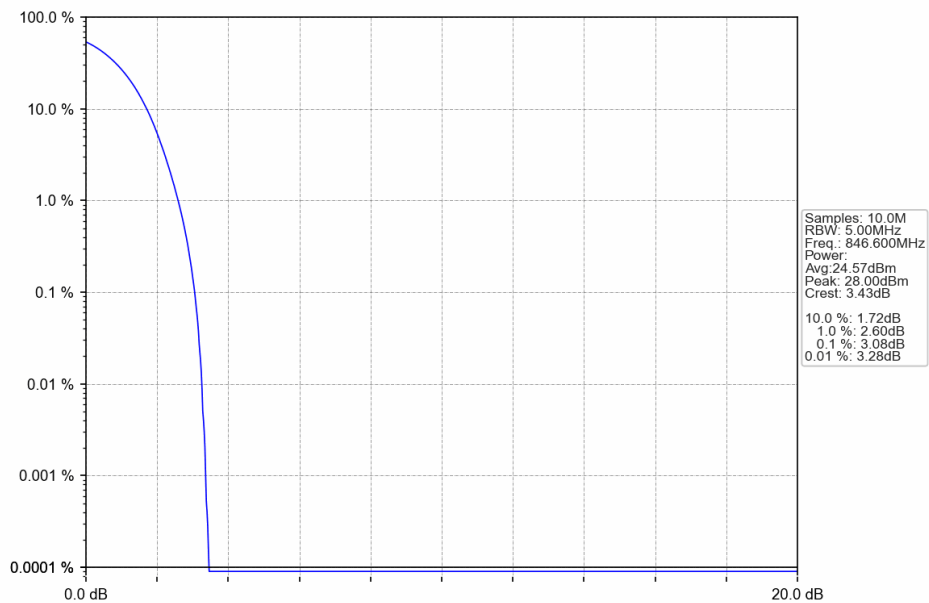
Band: 5						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	8.44	<=13	Pass
			836.6	3.04	<=13	Pass
			846.6	3.08	<=13	Pass

4.2 Test Graph

4.2.1 Band5



Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



5. Spurious Emission

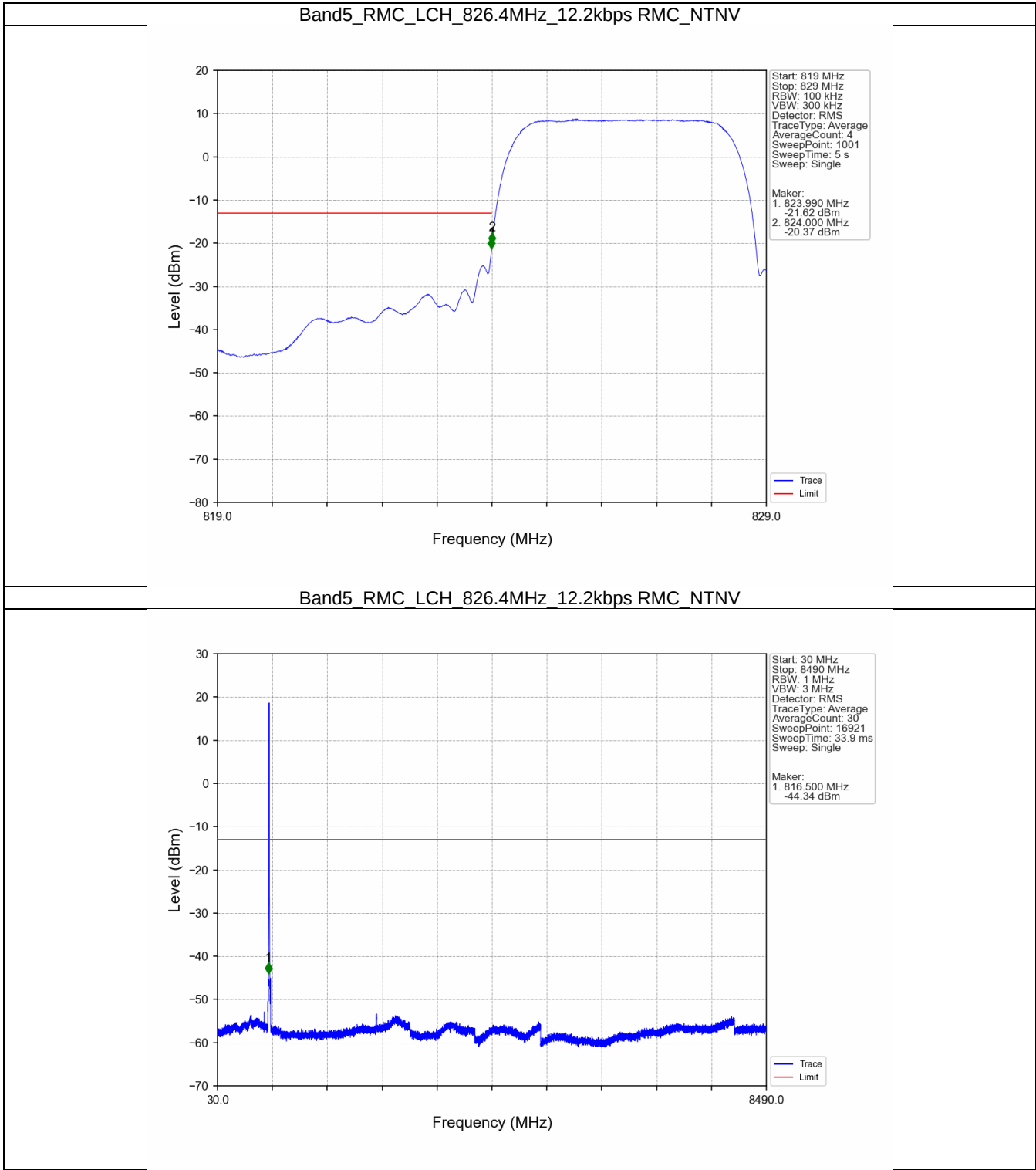
5.1 Test Result

5.1.1 Band5

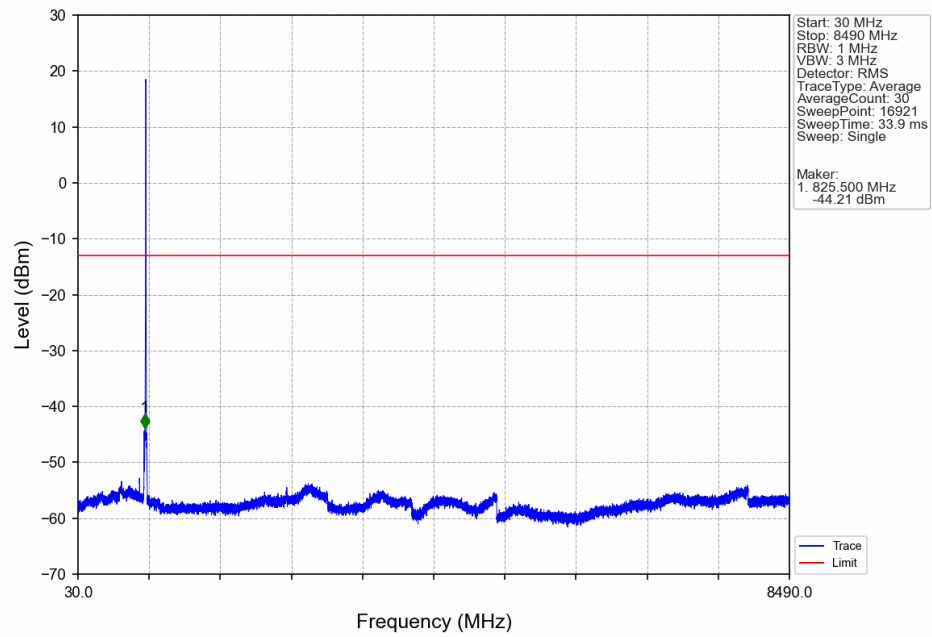
Band: 5					
ENV	Mode		Frequency (MHz)	Spurious Emission	
	Network	Subset		Result	Limit
NTNV	RMC	12.2kbps RMC	826.4	Refer To Test Graph	Pass
			836.6	Refer To Test Graph	Pass
			846.6	Refer To Test Graph	Pass

5.2 Test Graph

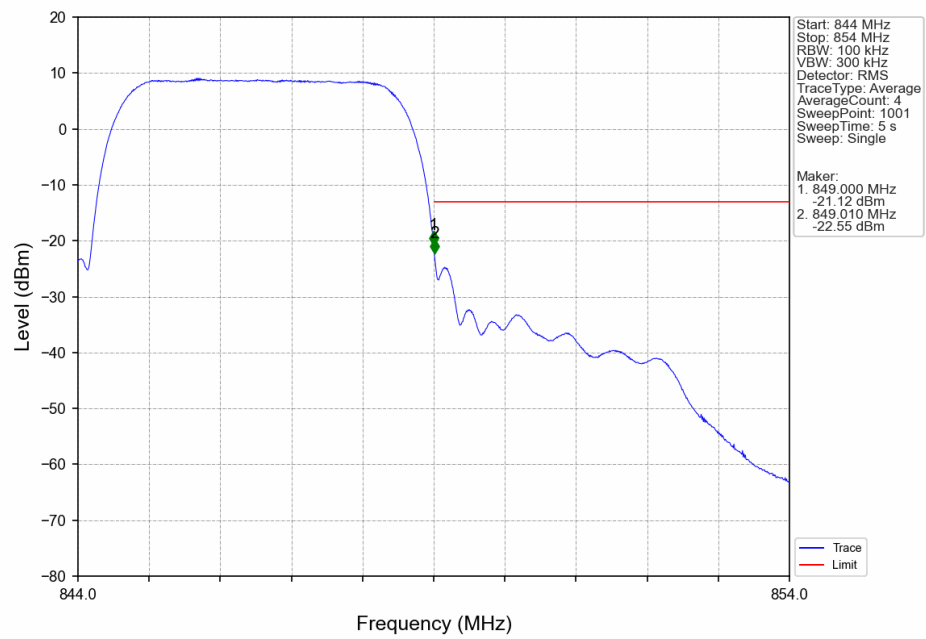
5.2.1 Band5



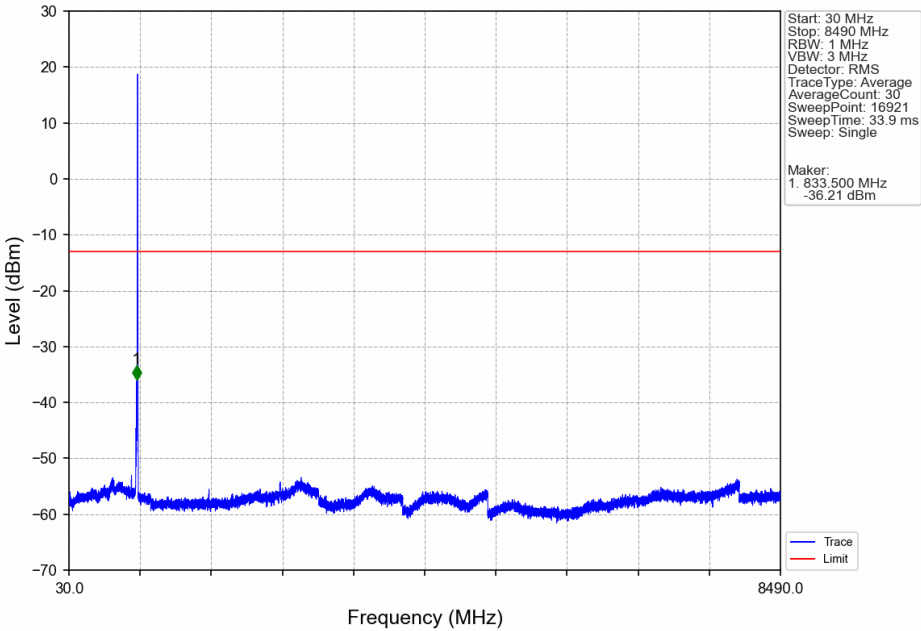
Band5_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



6. Field Strength of Spurious Radiation

1.1. Test Band = WCDMA Band V_ TM1

1.1.1. Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.8889	70.02	-49.83	25.57	-49.49	-13.00	36.49	Horizontal
2	2438.6667	65.74	-49.26	27.09	-51.69	-13.00	38.69	Horizontal
3	3013.3333	50.04	-48.37	28.11	-65.48	-13.00	52.48	Horizontal
4	4592.4444	49.90	-48.05	30.30	-63.11	-13.00	50.11	Horizontal
5	5341.7778	51.32	-47.66	32.16	-59.44	-13.00	46.44	Horizontal
6	6932.8889	50.54	-46.55	35.39	-55.88	-13.00	42.88	Horizontal

1.2. Test Band = WCDMA Band V_ TM1

1.2.1. Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.4444	65.80	-49.83	25.57	-53.72	-13.00	40.72	Vertical
2	2472.8889	52.65	-49.06	27.15	-64.52	-13.00	51.52	Vertical
3	3180	49.96	-48.68	28.24	-65.74	-13.00	52.74	Vertical
4	4561.3333	49.40	-48.11	30.23	-63.73	-13.00	50.73	Vertical
5	5456.4444	50.13	-47.41	32.48	-60.06	-13.00	47.06	Vertical
6	7626.2222	50.06	-44.83	36.37	-53.66	-13.00	40.66	Vertical

1.3. Test Band = WCDMA Band V_ TM1

1.3.1. Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1668.8889	71.06	-49.79	25.60	-48.38	-13.00	35.38	Horizontal
2	2503.1111	54.96	-48.91	27.21	-62.00	-13.00	49.00	Horizontal
3	3659.1111	50.45	-48.61	28.75	-64.67	-13.00	51.67	Horizontal
4	4657.3333	49.61	-48.06	30.45	-63.27	-13.00	50.27	Horizontal
5	5884.4444	51.00	-47.13	32.75	-58.64	-13.00	45.64	Horizontal
6	7075.1111	50.48	-46.16	35.64	-55.30	-13.00	42.30	Horizontal

1.4. Test Band = WCDMA Band V_ TM1

1.4.1. Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1668.4444	67.94	-49.79	25.60	-51.50	-13.00	38.50	Vertical
2	2457.3333	63.66	-49.15	27.12	-53.62	-13.00	40.62	Vertical
3	3184.8889	49.82	-48.67	28.25	-65.86	-13.00	52.86	Vertical
4	4289.7778	49.47	-48.06	29.76	-64.09	-13.00	51.09	Vertical
5	5668.8889	51.73	-47.55	32.67	-58.42	-13.00	45.42	Vertical
6	7199.5556	50.46	-46.18	35.86	-55.12	-13.00	42.12	Vertical

1.5. Test Band = WCDMA Band V_ TM1

1.5.1. Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1688.8889	80.60	-49.74	25.63	-38.77	-13.00	25.77	Horizontal
2	2532.8889	54.44	-48.99	27.26	-62.55	-13.00	49.55	Horizontal
3	3377.3333	50.59	-48.68	28.40	-64.94	-13.00	51.94	Horizontal
4	4604.8889	49.94	-48.04	30.33	-63.03	-13.00	50.03	Horizontal
5	6483.5556	50.73	-47.10	34.64	-56.99	-13.00	43.99	Horizontal
6	7993.7778	49.74	-44.49	36.30	-53.71	-13.00	40.71	Horizontal

1.6. Test Band = WCDMA Band V_ TM1

1.6.1. Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1688.4444	71.77	-49.74	25.63	-47.60	-13.00	34.60	Vertical
2	2532.8889	54.05	-48.99	27.26	-62.94	-13.00	49.94	Vertical
3	3056	49.76	-48.64	28.14	-66.00	-13.00	53.00	Vertical
4	4150.6667	49.08	-48.31	29.54	-64.95	-13.00	51.95	Vertical
5	5146.2222	50.34	-47.96	31.61	-61.27	-13.00	48.27	Vertical
6	6665.7778	50.57	-46.85	34.97	-56.57	-13.00	43.57	Vertical