

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	23.76	-4.00	17.61	<=38.45	Pass
			836.6	23.65	-4.00	17.50	<=38.45	Pass
			846.6	23.47	-4.00	17.32	<=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	-2.556	-0.0031	-2.5 to 2.5	Pass
			3.85	-1.687	-0.0020	-2.5 to 2.5	Pass
			4.43	-2.605	-0.0032	-2.5 to 2.5	Pass
		-30	3.85	-2.276	-0.0028	-2.5 to 2.5	Pass
		-20	3.85	-2.656	-0.0032	-2.5 to 2.5	Pass
		-10	3.85	-0.647	-0.0008	-2.5 to 2.5	Pass
		0	3.85	-2.327	-0.0028	-2.5 to 2.5	Pass
		10	3.85	-1.949	-0.0024	-2.5 to 2.5	Pass
		30	3.85	-1.553	-0.0019	-2.5 to 2.5	Pass
		40	3.85	-1.970	-0.0024	-2.5 to 2.5	Pass
		50	3.85	-1.749	-0.0021	-2.5 to 2.5	Pass
	836.6	20	3.27	-0.195	-0.0002	-2.5 to 2.5	Pass
			3.85	-1.748	-0.0021	-2.5 to 2.5	Pass
			4.43	0.035	0.0000	-2.5 to 2.5	Pass
		-30	3.85	-1.025	-0.0012	-2.5 to 2.5	Pass
		-20	3.85	0.286	0.0003	-2.5 to 2.5	Pass
		-10	3.85	-0.421	-0.0005	-2.5 to 2.5	Pass
		0	3.85	0.562	0.0007	-2.5 to 2.5	Pass
		10	3.85	-0.990	-0.0012	-2.5 to 2.5	Pass
		30	3.85	-1.637	-0.0020	-2.5 to 2.5	Pass
		40	3.85	-0.062	-0.0001	-2.5 to 2.5	Pass
		50	3.85	-0.024	0.0000	-2.5 to 2.5	Pass
	846.6	20	3.27	-0.418	-0.0005	-2.5 to 2.5	Pass
			3.85	0.061	0.0001	-2.5 to 2.5	Pass
			4.43	-0.303	-0.0004	-2.5 to 2.5	Pass
		-30	3.85	0.362	0.0004	-2.5 to 2.5	Pass
		-20	3.85	0.020	0.0000	-2.5 to 2.5	Pass
		-10	3.85	-0.301	-0.0004	-2.5 to 2.5	Pass
		0	3.85	0.302	0.0004	-2.5 to 2.5	Pass
		10	3.85	0.506	0.0006	-2.5 to 2.5	Pass
		30	3.85	0.115	0.0001	-2.5 to 2.5	Pass
		40	3.85	0.154	0.0002	-2.5 to 2.5	Pass
		50	3.85	0.297	0.0004	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band5_OBW

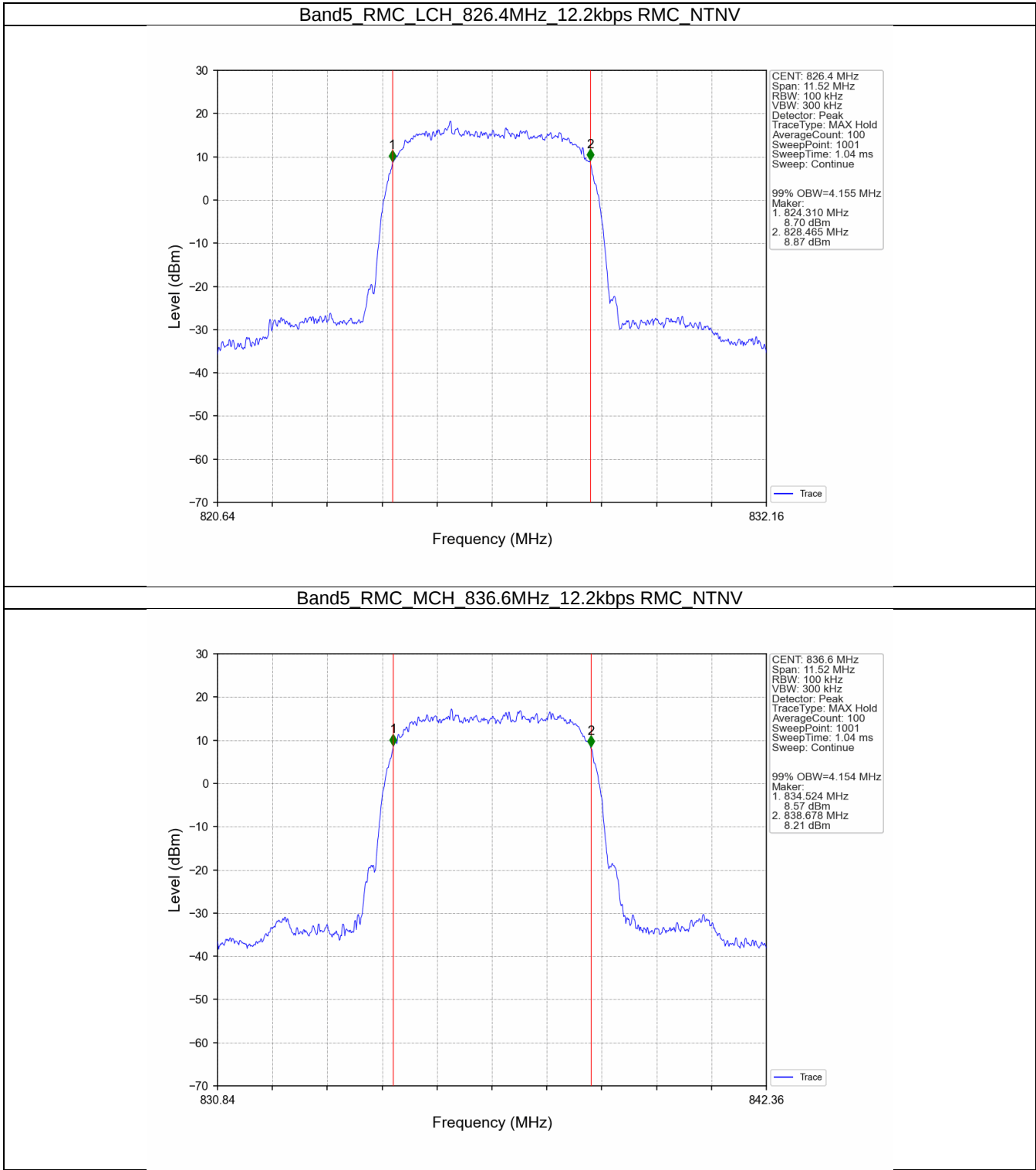
Band: 5						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	4.155	/	Pass
			836.6	4.154	/	Pass
			846.6	4.166	/	Pass

3.1.2 Band5_XDB

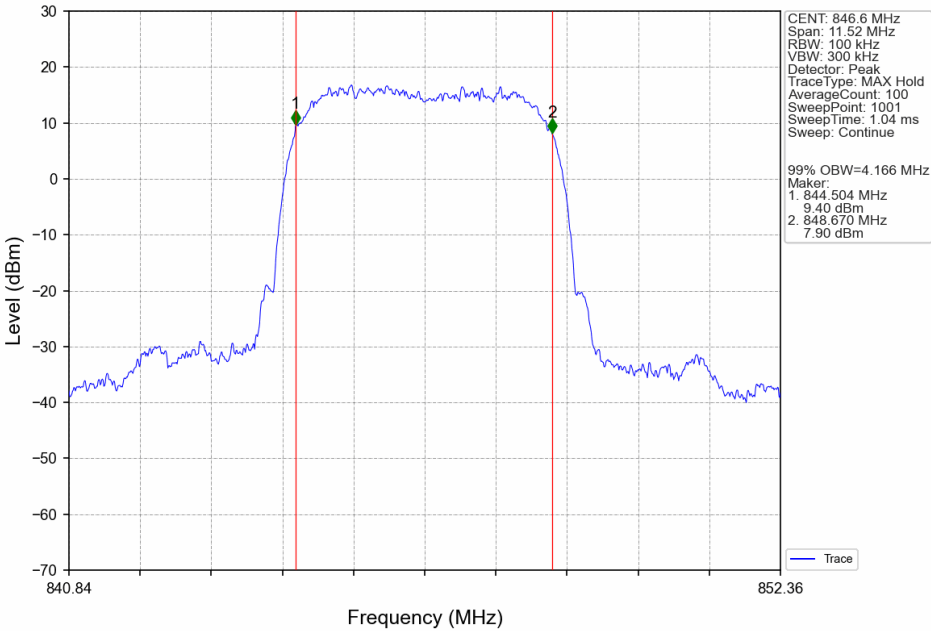
Band: 5						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	4.698	/	Pass
			836.6	4.704	/	Pass
			846.6	4.718	/	Pass

3.2 Test Graph

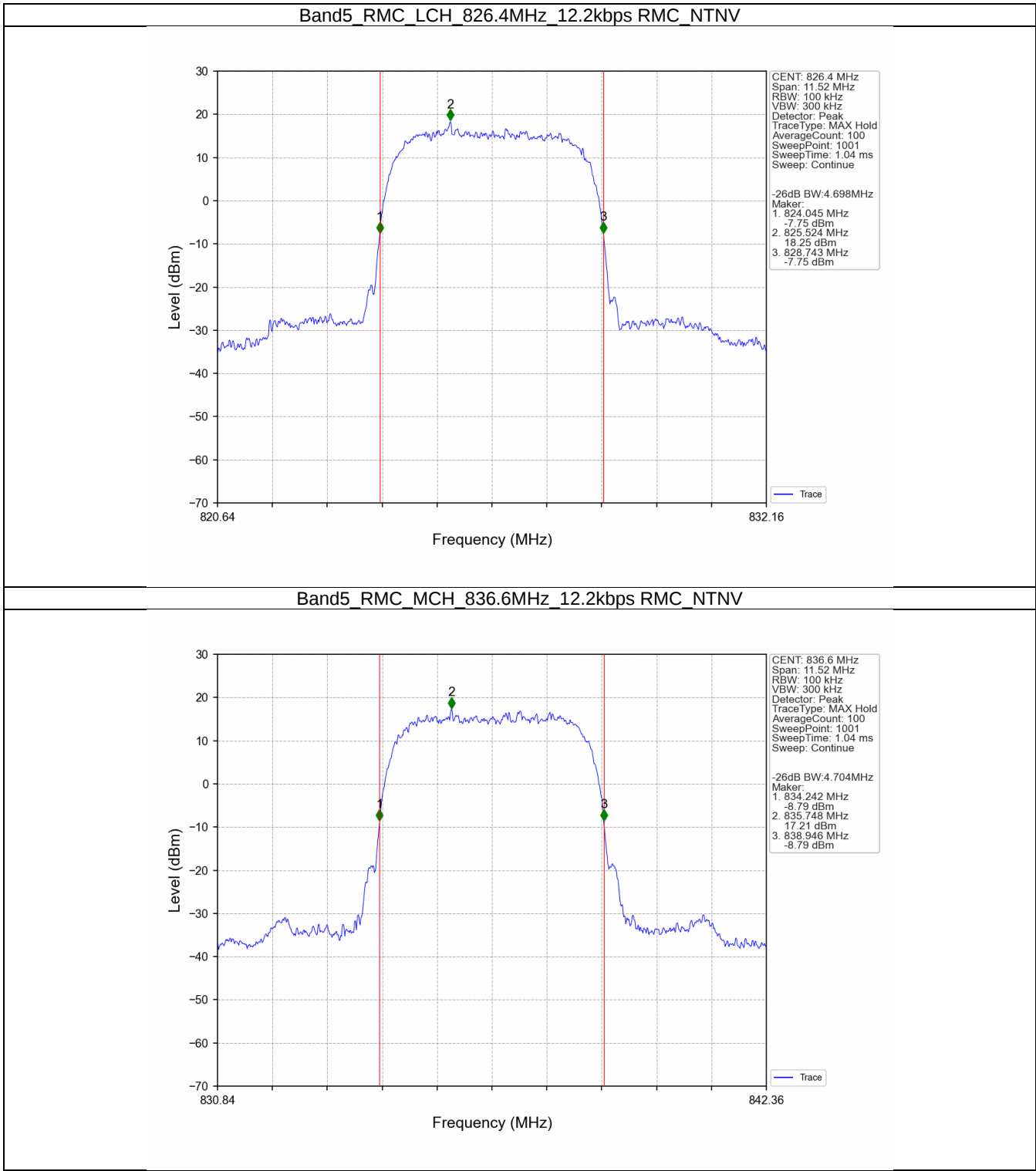
3.2.1 Band5_OBW



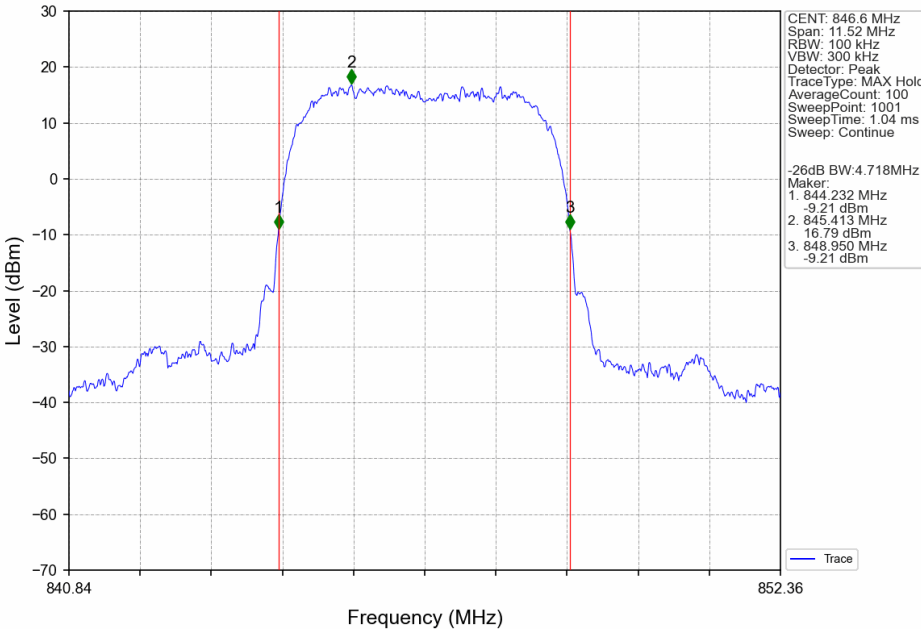
Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



3.2.2 Band5_XDB



Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



4. Peak-Average Ratio

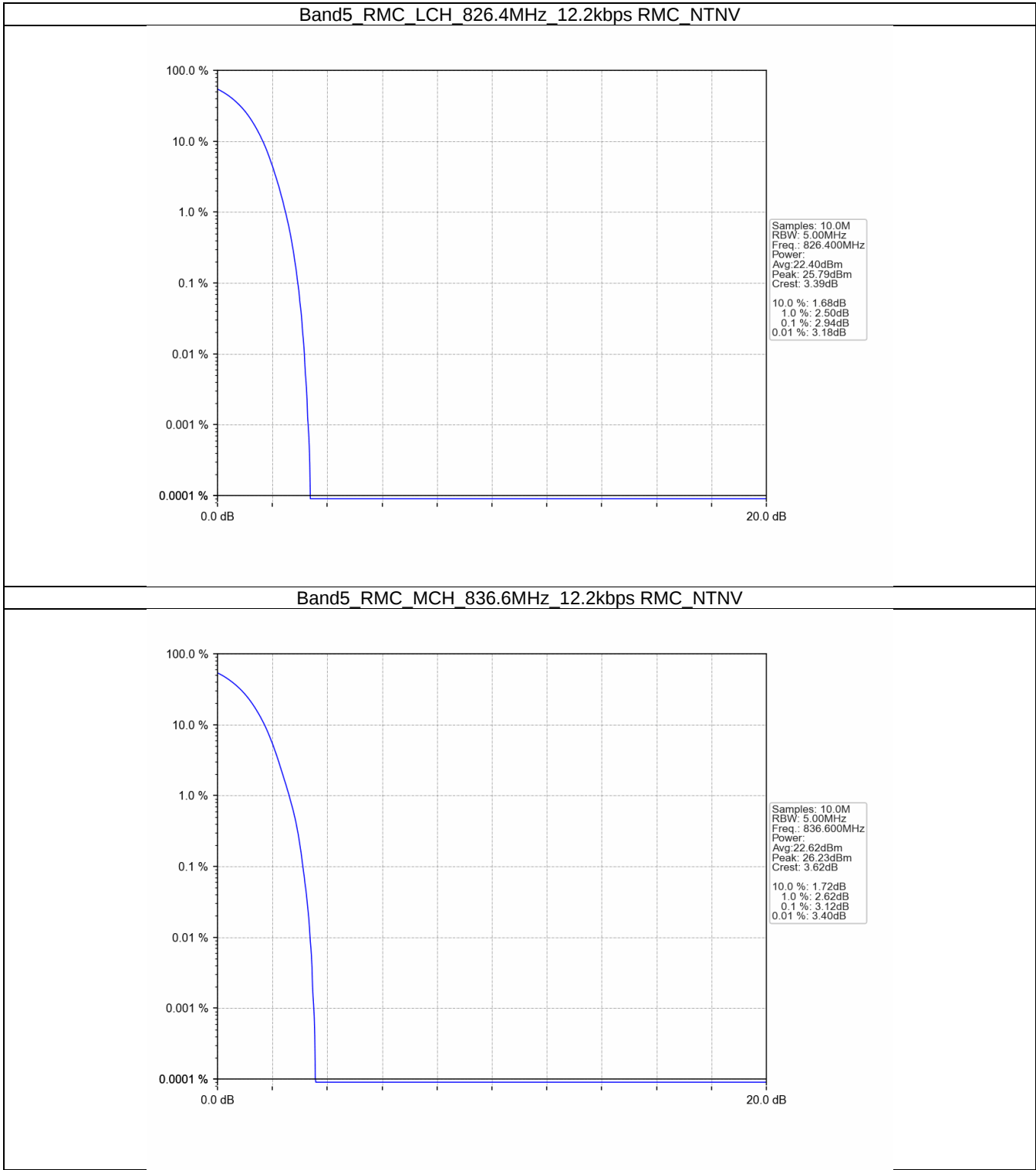
4.1 Test Result

4.1.1 Band5

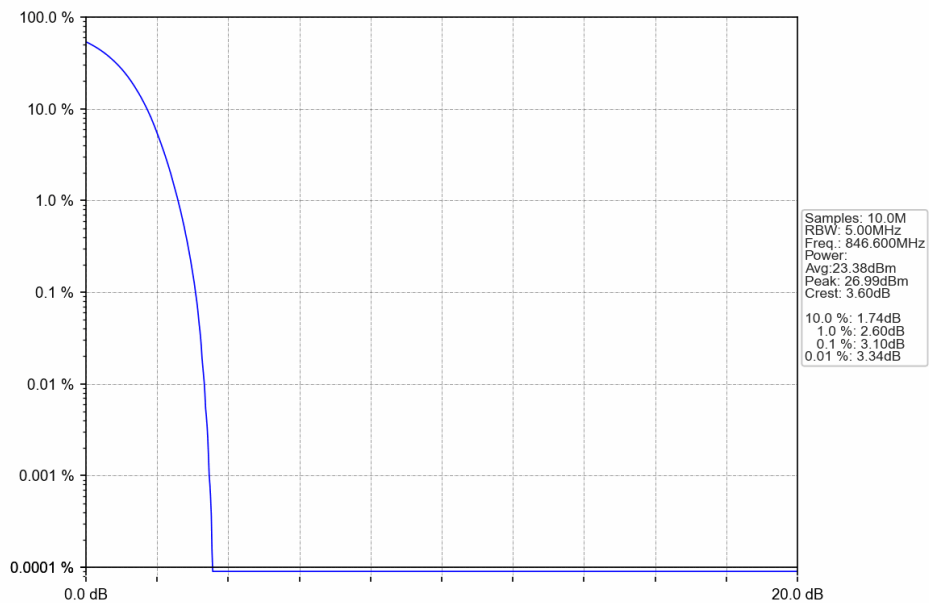
Band: 5						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	2.94	<=13	Pass
			836.6	3.12	<=13	Pass
			846.6	3.10	<=13	Pass

4.2 Test Graph

4.2.1 Band5



Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



5. Spurious Emission

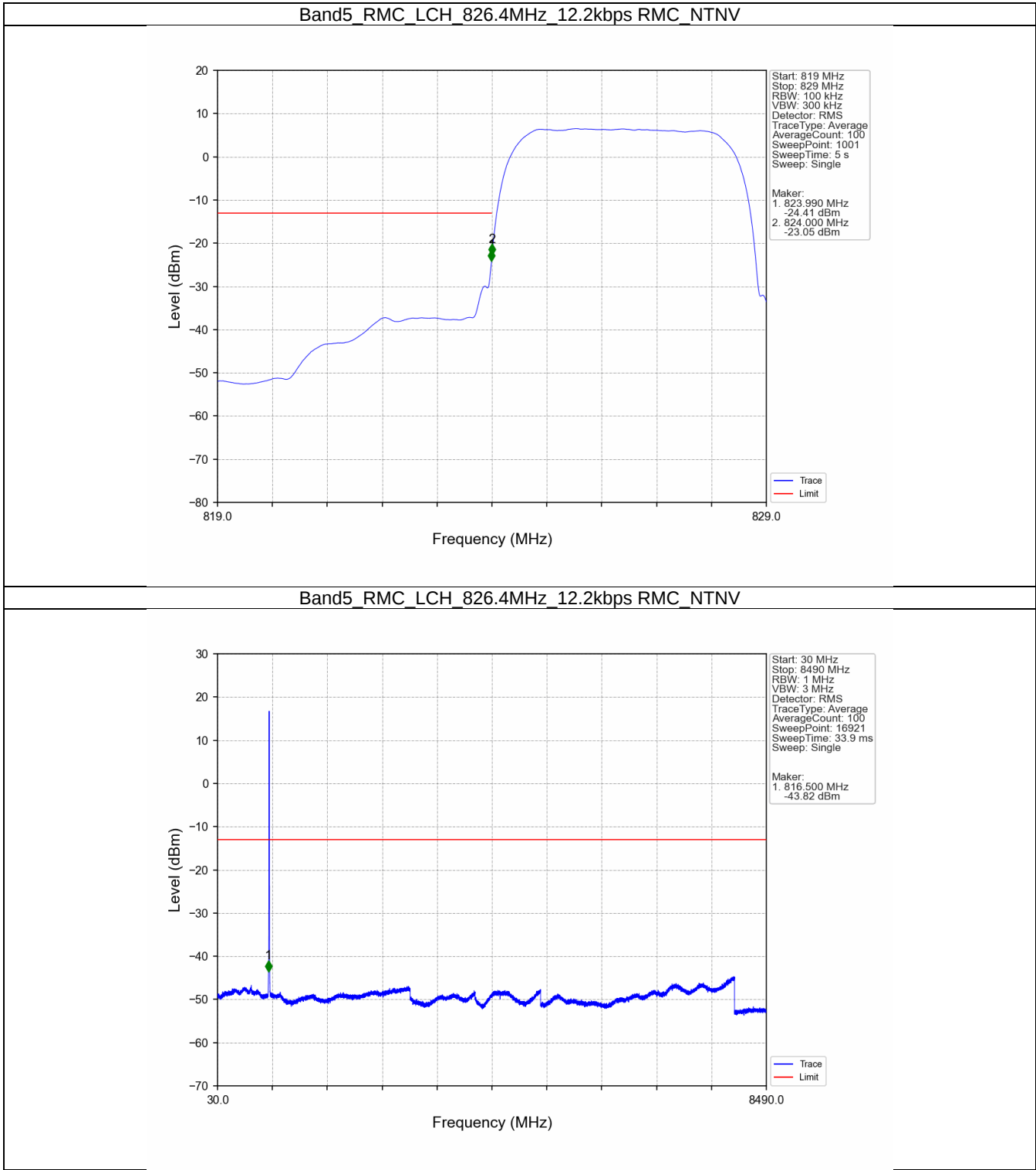
5.1 Test Result

5.1.1 Band5

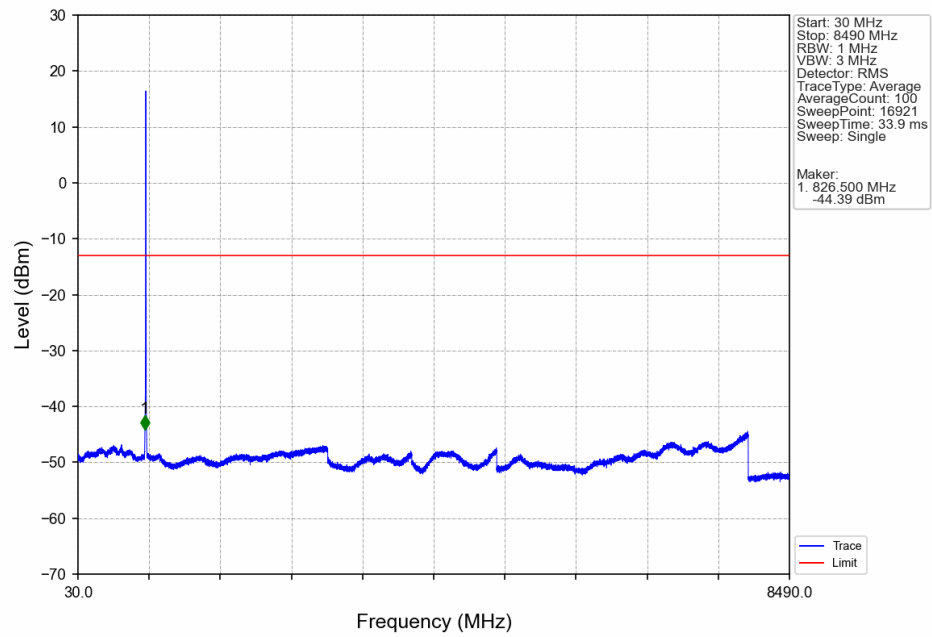
Band: 5						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	Refer To Test Graph		Pass
			836.6	Refer To Test Graph		Pass
			846.6	Refer To Test Graph		Pass

5.2 Test Graph

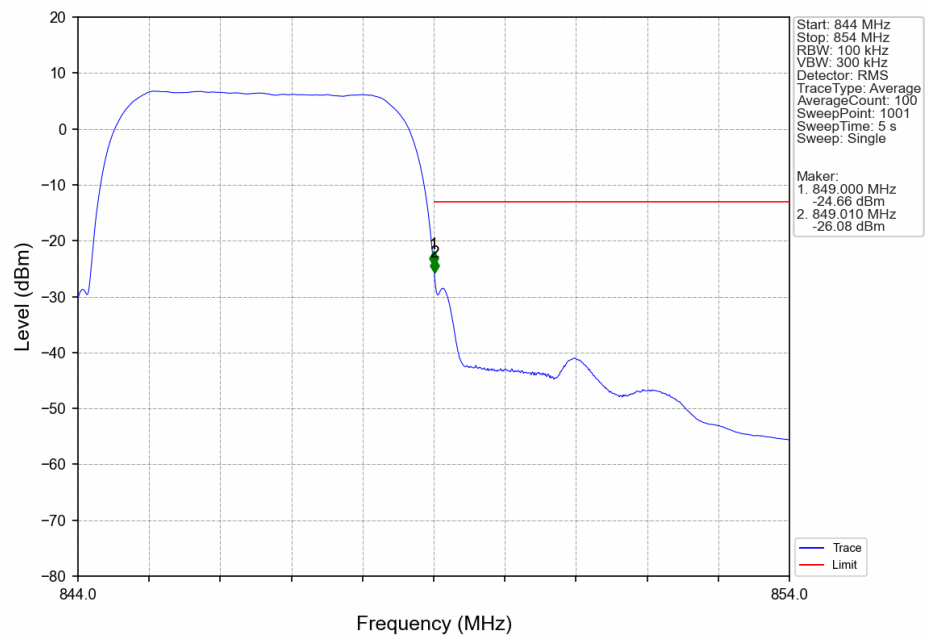
5.2.1 Band5



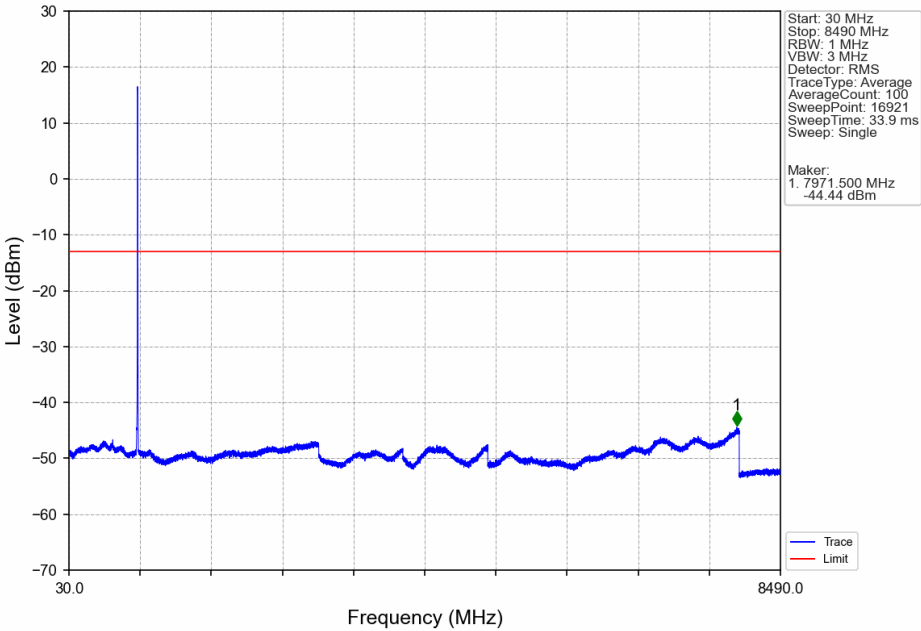
Band5_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



6. Field Strength of Spurious Radiation

Test Band = WCDMA Band V_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1654.2222	60.08	-49.82	25.58	-59.41	-13.00	46.41	Horizontal
2	2479.2	55.66	-49.02	27.16	-61.46	-13.00	48.46	Horizontal
3	3305.6	48.84	-48.63	28.34	-66.71	-13.00	53.71	Horizontal
4	4132	48.00	-48.29	29.51	-66.04	-13.00	53.04	Horizontal
5	4958.4	49.14	-48.05	31.11	-63.06	-13.00	50.06	Horizontal
6	5784.8	50.35	-47.69	32.71	-59.88	-13.00	46.88	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1651.1111	60.78	-49.82	25.58	-58.73	-13.00	45.73	Vertical
2	2480	55.08	-49.02	27.16	-62.03	-13.00	49.03	Vertical
3	3305.6	48.54	-48.63	28.34	-67.01	-13.00	54.01	Vertical
4	4132	47.97	-48.29	29.51	-66.07	-13.00	53.07	Vertical
5	4958.4	49.47	-48.05	31.11	-62.73	-13.00	49.73	Vertical
6	5784.8	50.06	-47.69	32.71	-60.17	-13.00	47.17	Vertical

Test Band = WCDMA Band V_ TM1
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1671.1111	61.15	-49.78	25.61	-58.28	-13.00	45.28	Horizontal
2	2506.2222	54.52	-48.92	27.21	-62.45	-13.00	49.45	Horizontal
3	3345.6	48.00	-48.66	28.38	-67.54	-13.00	54.54	Horizontal
4	4182	48.35	-48.34	29.59	-65.66	-13.00	52.66	Horizontal
5	5018.4	49.18	-47.95	31.25	-62.78	-13.00	49.78	Horizontal
6	5854.8	49.67	-47.33	32.74	-60.18	-13.00	47.18	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1671.5556	58.48	-49.78	25.61	-60.95	-13.00	47.95	Vertical
2	2512	51.66	-48.93	27.22	-65.31	-13.00	52.31	Vertical
3	3345.6	48.10	-48.66	28.38	-67.44	-13.00	54.44	Vertical
4	4182	48.39	-48.34	29.59	-65.62	-13.00	52.62	Vertical
5	5018.4	49.21	-47.95	31.25	-62.75	-13.00	49.75	Vertical
6	5854.8	49.52	-47.33	32.74	-60.33	-13.00	47.33	Vertical

Test Band = WCDMA Band V_ TM1
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1690.6667	59.12	-49.74	25.64	-60.24	-13.00	47.24	Horizontal
2	2536.8889	54.77	-49.00	27.27	-62.22	-13.00	49.22	Horizontal
3	3386.4	48.86	-48.68	28.41	-66.67	-13.00	53.67	Horizontal
4	4233	47.56	-48.25	29.67	-66.28	-13.00	53.28	Horizontal
5	5079.6	49.88	-47.93	31.42	-61.88	-13.00	48.88	Horizontal
6	5926.2	49.37	-47.17	32.77	-60.29	-13.00	47.29	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1691.1111	54.00	-49.74	25.64	-65.36	-13.00	52.36	Vertical
2	2536.4444	51.00	-49.00	27.27	-65.99	-13.00	52.99	Vertical
3	3386.4	48.23	-48.68	28.41	-67.30	-13.00	54.30	Vertical
4	4233	48.35	-48.25	29.67	-65.49	-13.00	52.49	Vertical
5	5079.6	49.92	-47.93	31.42	-61.84	-13.00	48.84	Vertical
6	5926.2	49.79	-47.17	32.77	-59.87	-13.00	46.87	Vertical