

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 Band4_EIRP

Band: 4								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	22.41	1.18	23.59	<=30	Pass
			1732.6	22.29	1.18	23.47	<=30	Pass
			1752.6	22.40	1.18	23.58	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Test Result

2.1.1 Band4

Band: 4							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1712.4	20	3.27	10.536	0.0062	-2.5 to 2.5	Pass
			3.85	10.298	0.0060	-2.5 to 2.5	Pass
			4.43	10.308	0.0060	-2.5 to 2.5	Pass
		-30	3.85	10.194	0.0060	-2.5 to 2.5	Pass
		-20	3.85	10.335	0.0060	-2.5 to 2.5	Pass
		-10	3.85	10.295	0.0060	-2.5 to 2.5	Pass
		0	3.85	10.142	0.0059	-2.5 to 2.5	Pass
		10	3.85	11.385	0.0066	-2.5 to 2.5	Pass
		30	3.85	10.446	0.0061	-2.5 to 2.5	Pass
		40	3.85	10.194	0.0060	-2.5 to 2.5	Pass
		50	3.85	10.533	0.0062	-2.5 to 2.5	Pass
	1732.6	20	3.27	-2.981	-0.0017	-2.5 to 2.5	Pass
			3.85	-2.624	-0.0015	-2.5 to 2.5	Pass
			4.43	-2.125	-0.0012	-2.5 to 2.5	Pass
		-30	3.85	-3.106	-0.0018	-2.5 to 2.5	Pass
		-20	3.85	-2.557	-0.0015	-2.5 to 2.5	Pass
		-10	3.85	-2.467	-0.0014	-2.5 to 2.5	Pass
		0	3.85	-2.371	-0.0014	-2.5 to 2.5	Pass
		10	3.85	-2.682	-0.0015	-2.5 to 2.5	Pass
		30	3.85	-2.586	-0.0015	-2.5 to 2.5	Pass
		40	3.85	-2.949	-0.0017	-2.5 to 2.5	Pass
		50	3.85	-2.742	-0.0016	-2.5 to 2.5	Pass
	1752.6	20	3.27	-11.992	-0.0068	-2.5 to 2.5	Pass
			3.85	-11.669	-0.0067	-2.5 to 2.5	Pass
			4.43	-11.585	-0.0066	-2.5 to 2.5	Pass
		-30	3.85	-12.339	-0.0070	-2.5 to 2.5	Pass
		-20	3.85	-11.802	-0.0067	-2.5 to 2.5	Pass
		-10	3.85	-11.940	-0.0068	-2.5 to 2.5	Pass
		0	3.85	-11.679	-0.0067	-2.5 to 2.5	Pass
		10	3.85	-11.665	-0.0067	-2.5 to 2.5	Pass
		30	3.85	-11.645	-0.0066	-2.5 to 2.5	Pass
		40	3.85	-11.796	-0.0067	-2.5 to 2.5	Pass
		50	3.85	-11.986	-0.0068	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band4_OBW

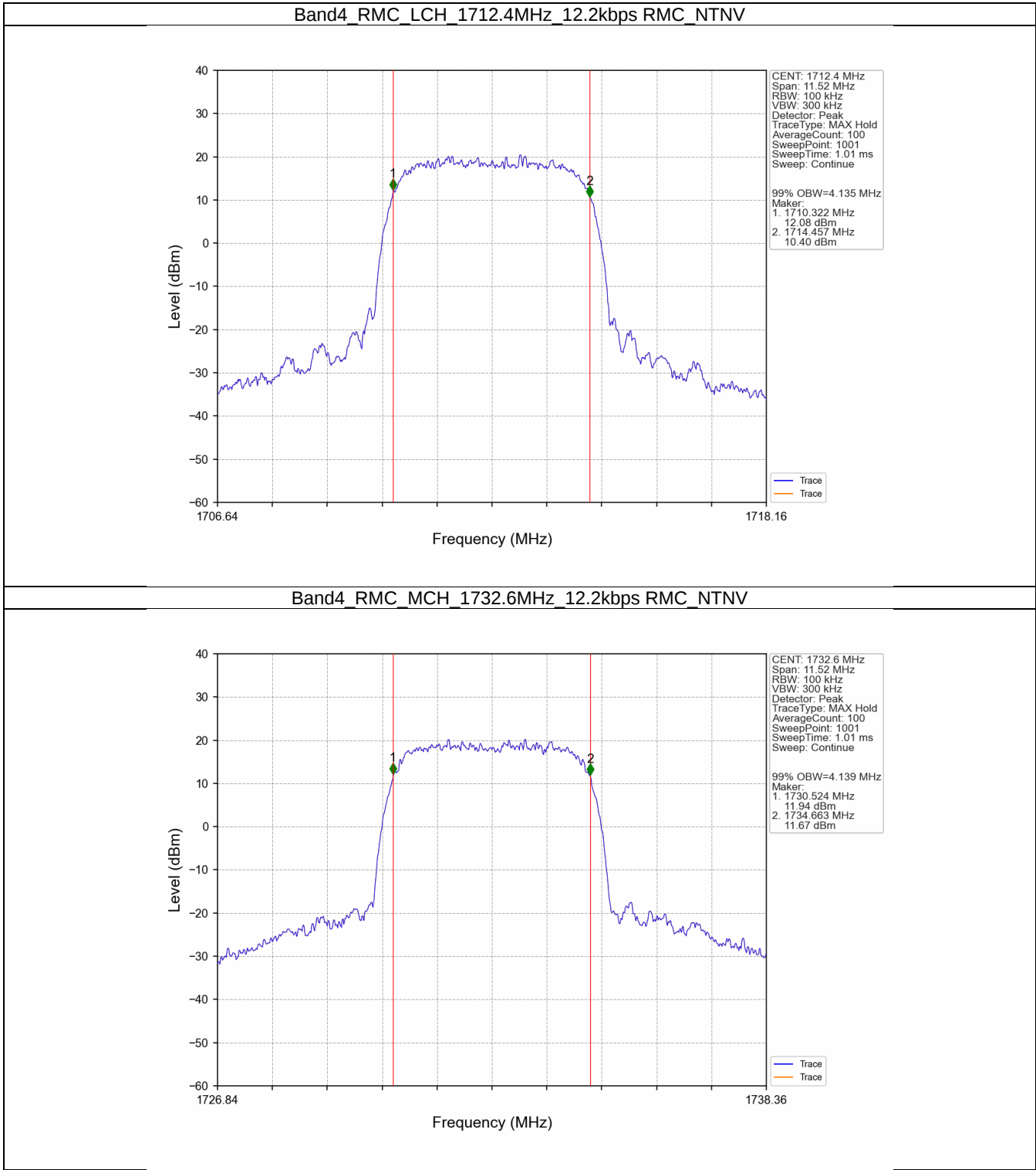
Band: 4						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.135	/	Pass
			1732.6	4.139	/	Pass
			1752.6	4.140	/	Pass

3.1.2 Band4_XDB

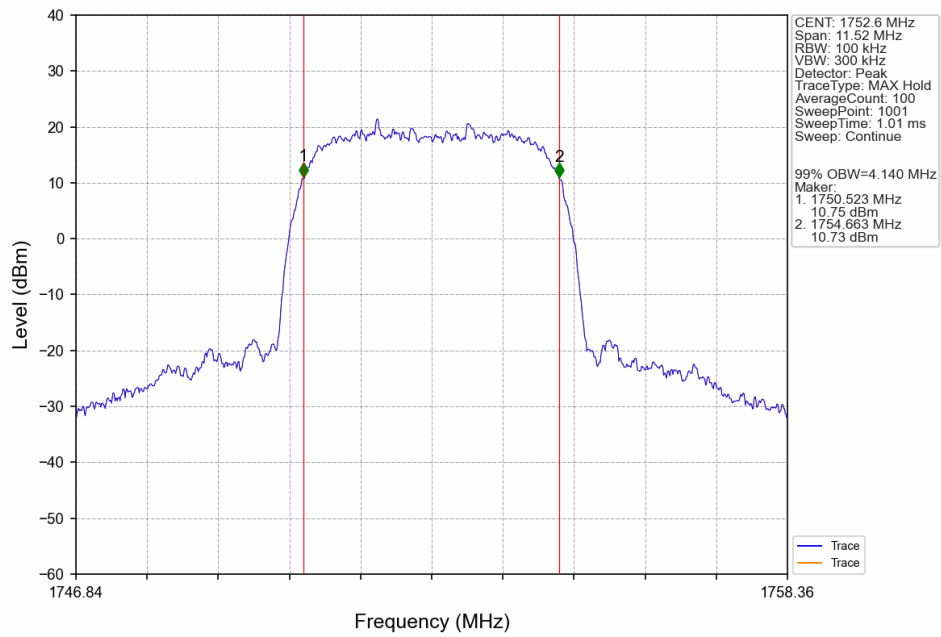
Band: 4						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.747	/	Pass
			1732.6	4.746	/	Pass
			1752.6	4.728	/	Pass

3.2 Test Graph

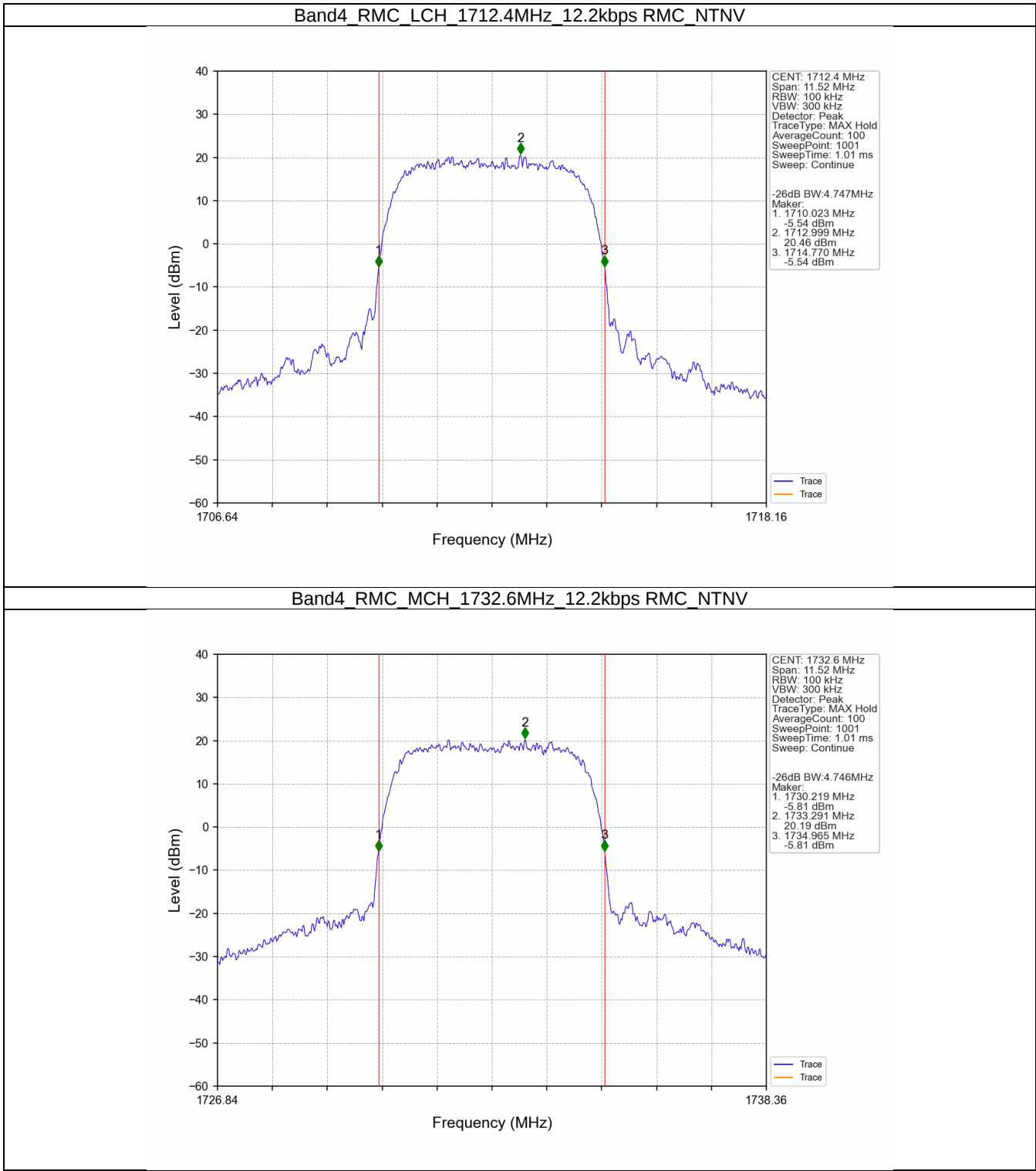
3.2.1 Band4_OBW



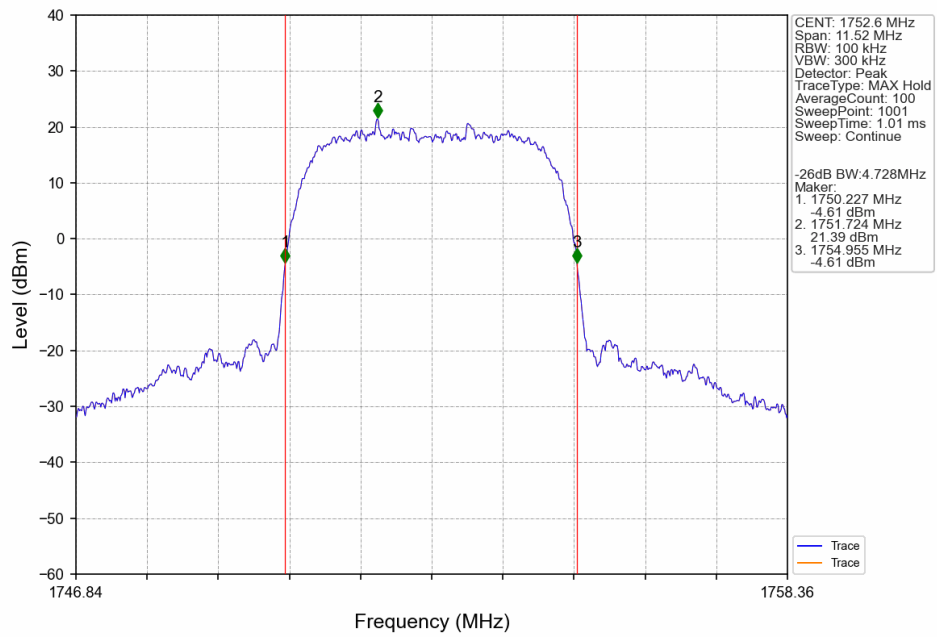
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



3.2.2 Band4_XDB



Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



4. Peak-Average Ratio

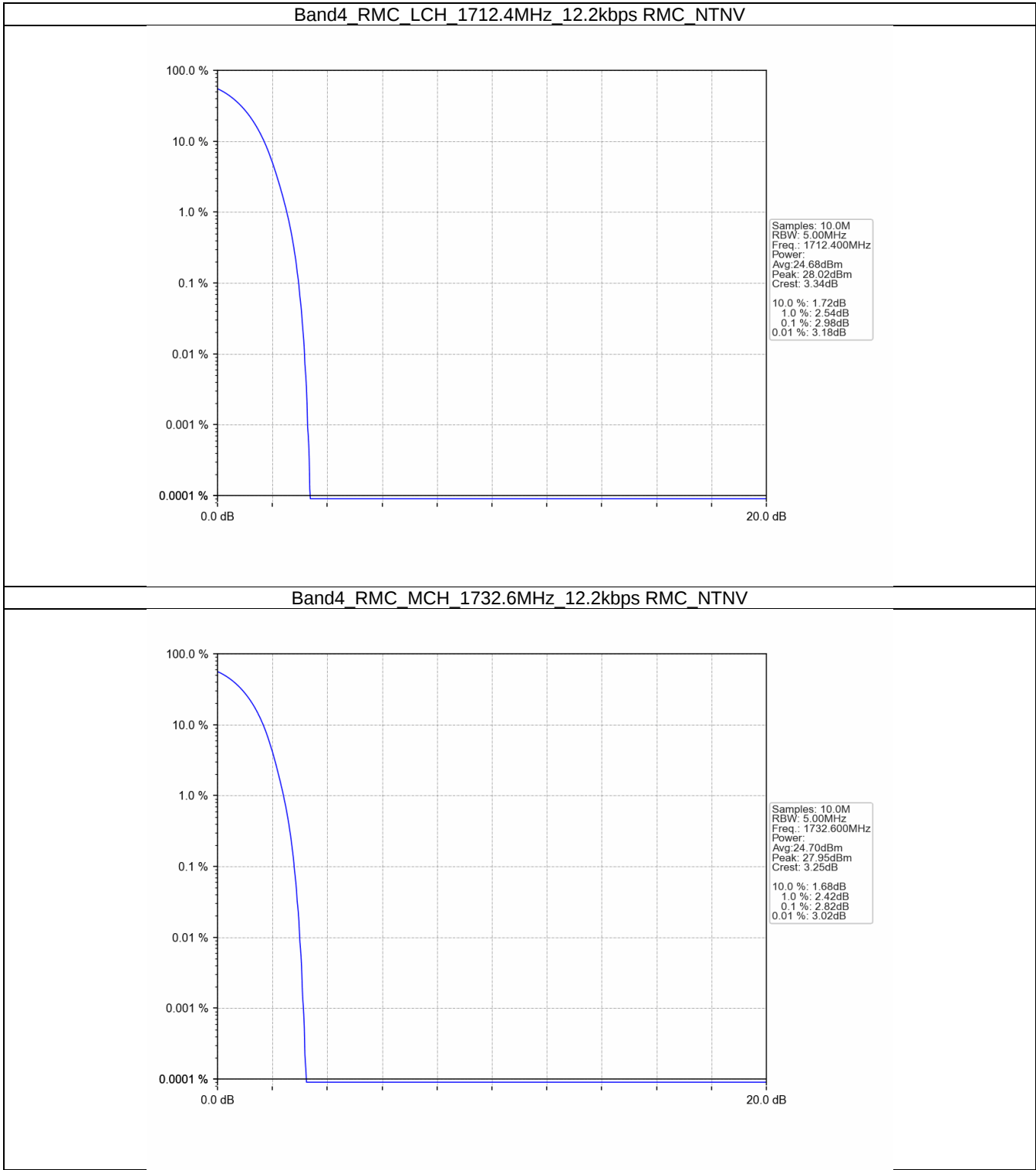
4.1 Test Result

4.1.1 Band4

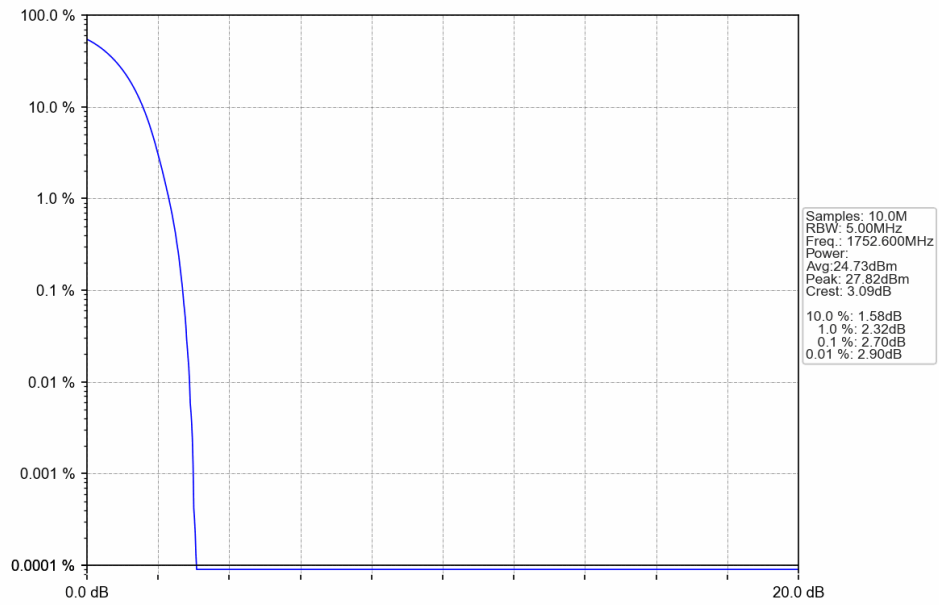
Band: 4						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	2.98	<=13	Pass
			1732.6	2.82	<=13	Pass
			1752.6	2.70	<=13	Pass

4.2 Test Graph

4.2.1 Band4



Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



5. Spurious Emission

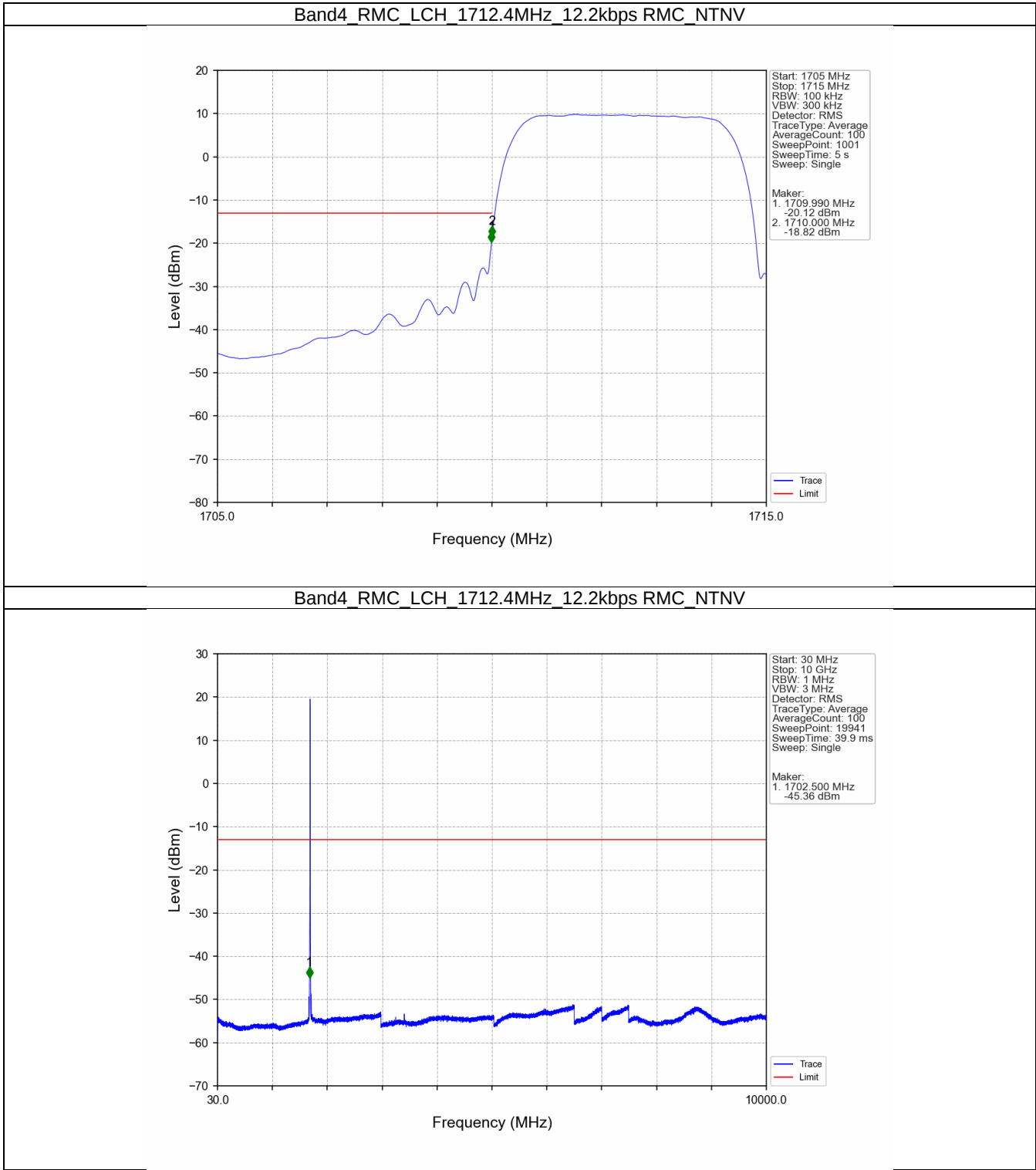
5.1 Test Result

5.1.1 Band4

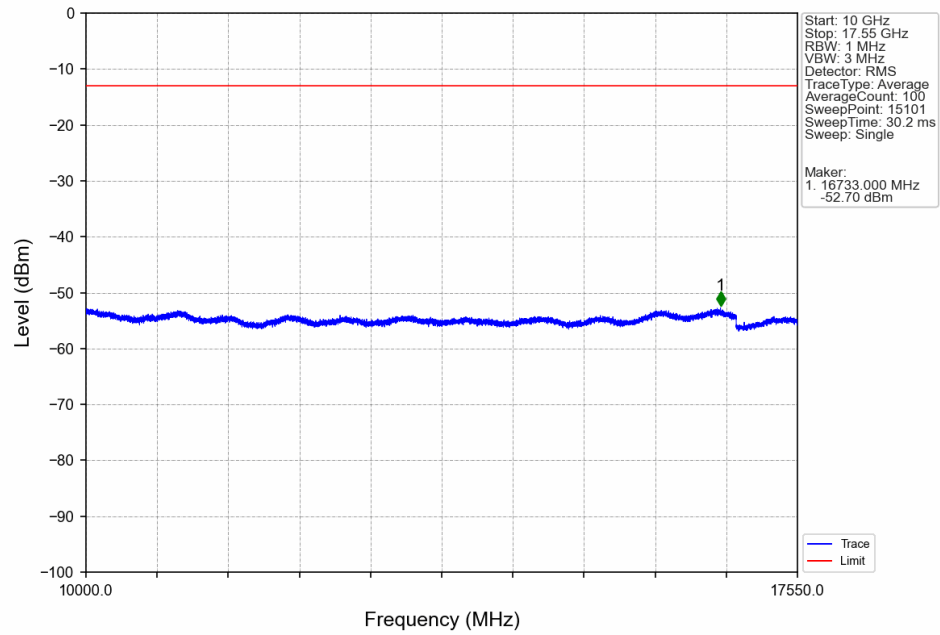
Band: 4					
ENV	Mode		Frequency (MHz)	Spurious Emission	
	Network	Subset		Result	Limit
NTNV	RMC	12.2kbps RMC	1712.4	Refer To Test Graph	Pass
			1732.6	Refer To Test Graph	Pass
			1752.6	Refer To Test Graph	Pass

5.2 Test Graph

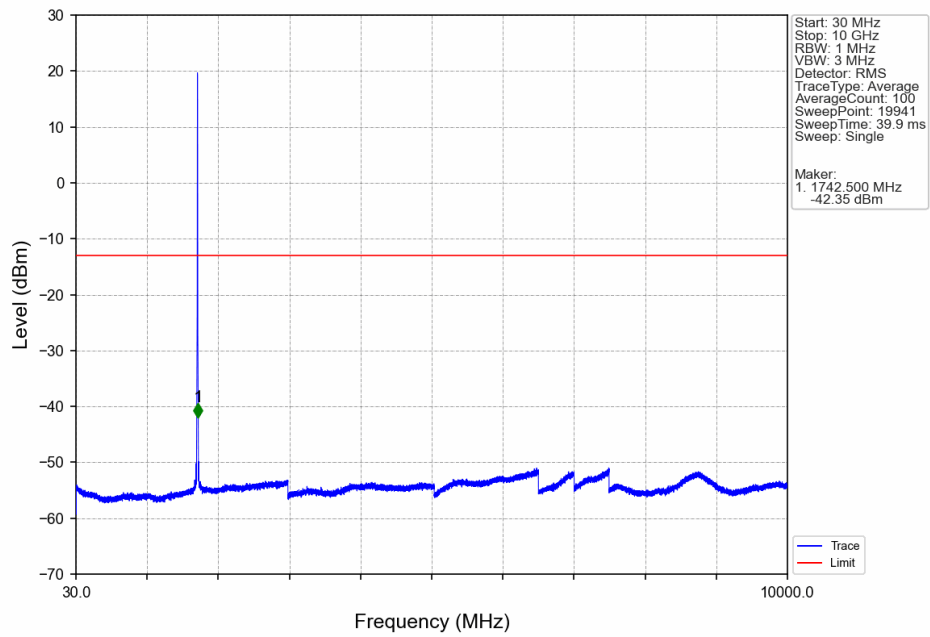
5.2.1 Band4



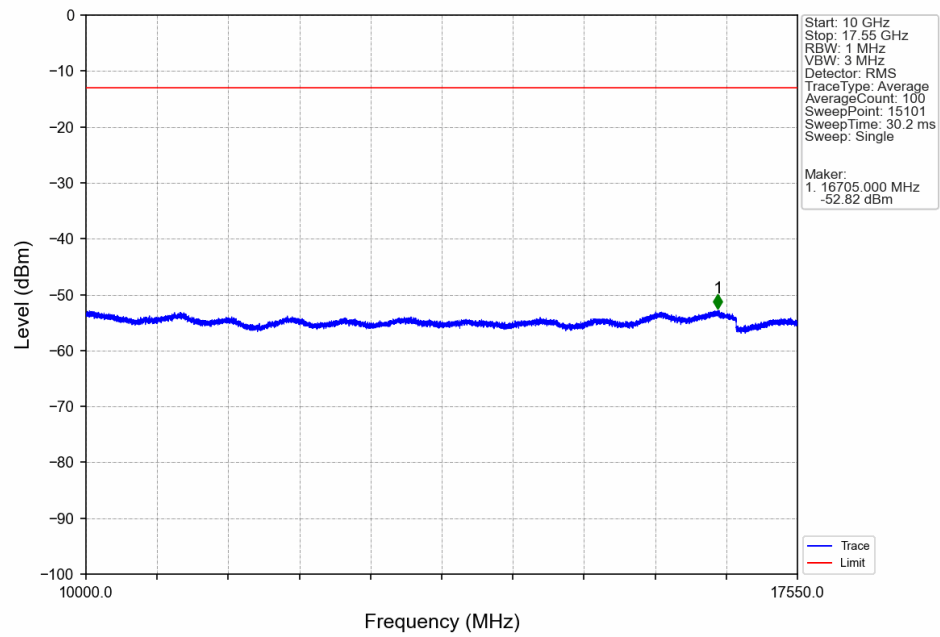
Band4_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



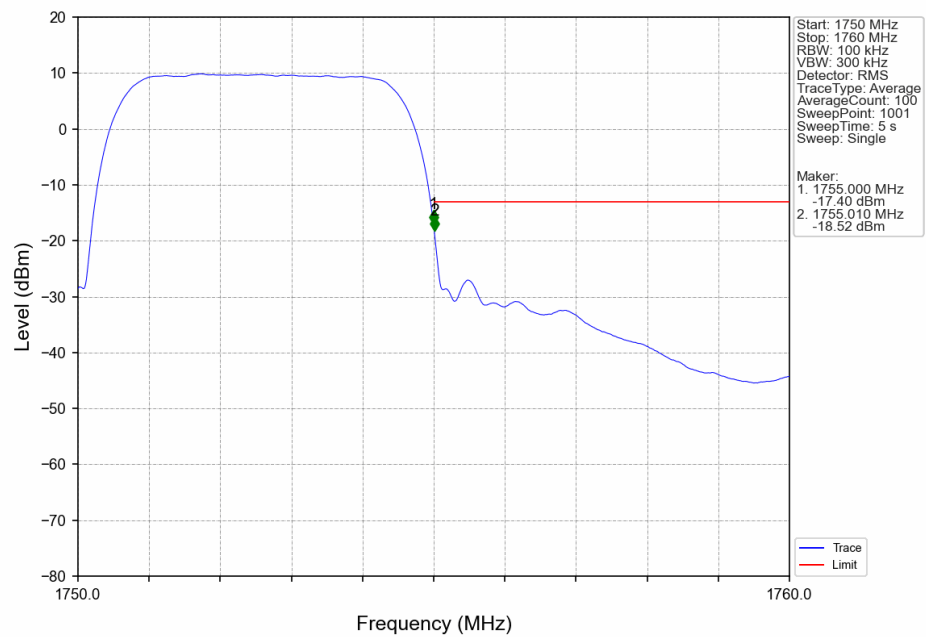
Band4_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



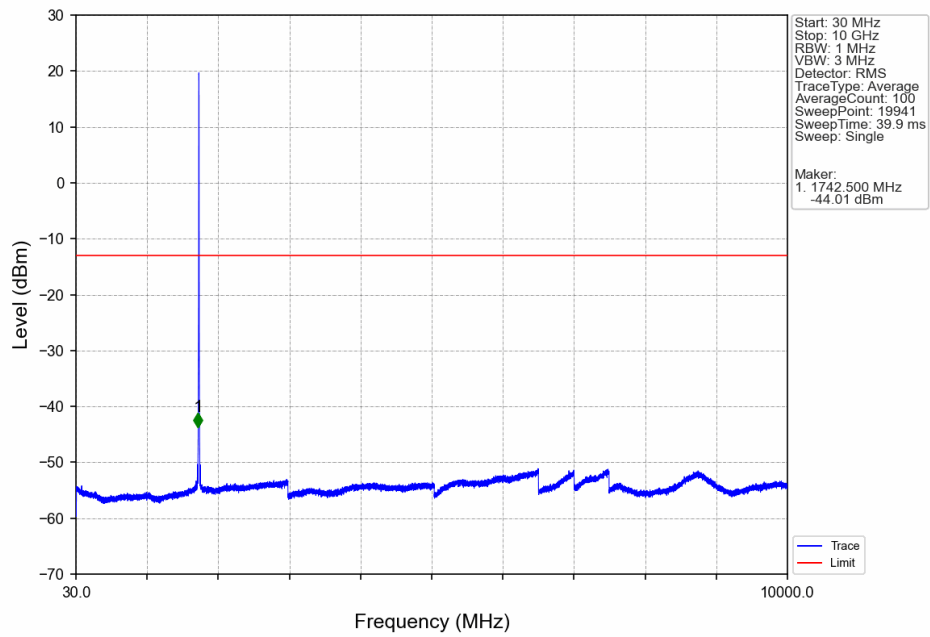
Band4_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



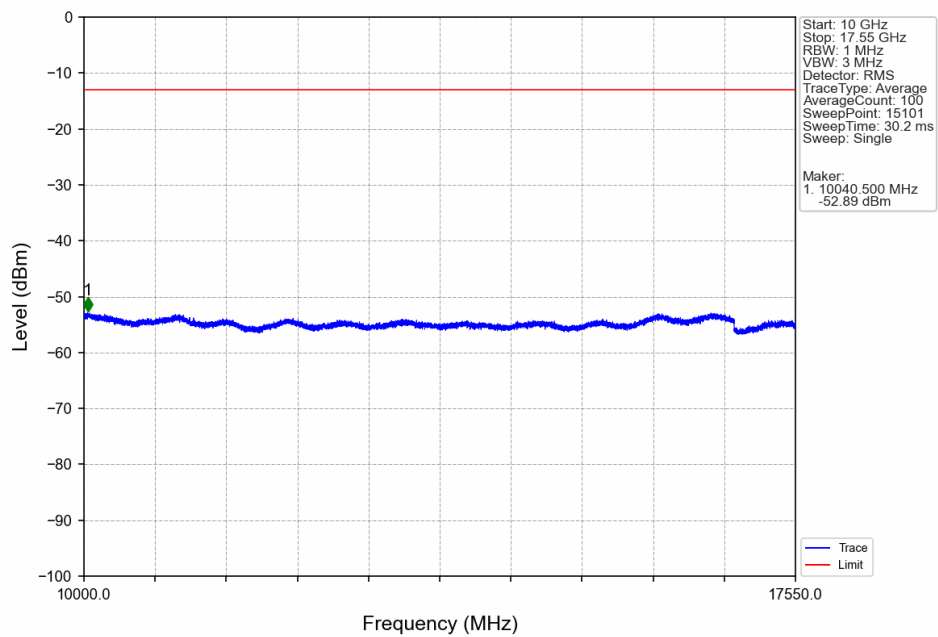
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



6. Field Strength of Spurious Radiation

1.1. Test Band = WCDMA Band IV_ 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	3420.75	60.78	-48.39	28.44	-54.43	-13.00	41.43	Horizontal
2	5131.125	59.33	-47.84	31.57	-52.20	-13.00	39.20	Horizontal
3	7185.375	45.84	-46.15	35.83	-59.73	-13.00	46.73	Horizontal
4	10261.875	43.01	-41.53	38.98	-54.79	-13.00	41.79	Horizontal
5	11608.125	38.05	-39.76	39.44	-57.53	-13.00	44.53	Horizontal
6	14719.875	36.44	-36.71	40.23	-55.31	-13.00	42.31	Horizontal

1.2. Test Band = WCDMA Band IV_ 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	3420.75	59.79	-48.39	28.44	-55.42	-13.00	42.42	Vertical
2	5131.125	58.80	-47.84	31.57	-52.73	-13.00	39.73	Vertical
3	6841.125	50.17	-46.82	35.25	-56.67	-13.00	43.67	Vertical
4	10860.75	40.63	-40.29	39.40	-55.52	-13.00	42.52	Vertical
5	13908.75	37.60	-38.77	40.16	-56.26	-13.00	43.26	Vertical
6	15205.5	35.38	-36.71	39.83	-56.76	-13.00	43.76	Vertical

1.3. Test Band = WCDMA Band IV_ 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	3460.5	62.25	-48.34	28.47	-52.88	-13.00	39.88	Horizontal
2	5191.125	56.33	-47.88	31.74	-55.08	-13.00	42.08	Horizontal
3	6921.375	47.03	-46.70	35.37	-59.56	-13.00	46.56	Horizontal
4	9516	40.99	-42.35	38.12	-58.50	-13.00	45.50	Horizontal
5	10857.375	39.69	-40.31	39.40	-56.48	-13.00	43.48	Horizontal
6	14769	35.88	-36.80	40.22	-55.95	-13.00	42.95	Horizontal

1.4. Test Band = WCDMA Band IV_ 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	3460.5	57.74	-48.34	28.47	-57.39	-13.00	44.39	Vertical
2	5190.75	62.11	-47.88	31.73	-49.30	-13.00	36.30	Vertical
3	6921.375	51.13	-46.70	35.37	-55.46	-13.00	42.46	Vertical
4	9562.5	40.78	-42.29	38.19	-58.58	-13.00	45.58	Vertical
5	13719.375	37.17	-38.17	39.88	-56.38	-13.00	43.38	Vertical
6	17881.125	36.51	-36.62	44.09	-51.29	-13.00	38.29	Vertical

1.5. Test Band = WCDMA Band IV_ 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	3500.625	55.79	-48.29	28.50	-59.26	-13.00	46.26	Horizontal
2	5250.75	53.90	-47.83	31.90	-57.29	-13.00	44.29	Horizontal
3	7020	45.38	-46.45	35.54	-60.79	-13.00	47.79	Horizontal
4	10056.75	40.94	-41.80	38.84	-57.28	-13.00	44.28	Horizontal
5	13717.5	37.01	-38.15	39.88	-56.53	-13.00	43.53	Horizontal
6	15178.125	36.01	-37.04	39.88	-56.41	-13.00	43.41	Horizontal

1.6. Test Band = WCDMA Band IV_ 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	3500.25	55.21	-48.29	28.50	-59.84	-13.00	46.84	Vertical
2	5251.125	57.03	-47.83	31.90	-54.16	-13.00	41.16	Vertical
3	7001.25	46.61	-46.59	35.50	-59.74	-13.00	46.74	Vertical
4	8463	42.97	-44.22	36.81	-59.70	-13.00	46.70	Vertical
5	10939.125	39.51	-40.28	39.46	-56.57	-13.00	43.57	Vertical
6	13732.875	37.13	-38.31	39.90	-56.54	-13.00	43.54	Vertical