

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 BandIV_EIRP

Band: IV								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	22.33	1.15	23.48	<=30	Pass
			1732.6	22.28	1.15	23.43	<=30	Pass
			1752.6	22.45	1.15	23.60	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Test Result

2.1.1 BandIV

Band: IV							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1712.4	20	3.5	6.017	0.0035	-2.5 to 2.5	Pass
			3.87	5.258	0.0031	-2.5 to 2.5	Pass
			4.4	5.714	0.0033	-2.5 to 2.5	Pass
		-30	3.87	5.594	0.0033	-2.5 to 2.5	Pass
		-20	3.87	5.912	0.0035	-2.5 to 2.5	Pass
		-10	3.87	5.636	0.0033	-2.5 to 2.5	Pass
		0	3.87	5.374	0.0031	-2.5 to 2.5	Pass
		10	3.87	5.939	0.0035	-2.5 to 2.5	Pass
		30	3.87	5.679	0.0033	-2.5 to 2.5	Pass
		40	3.87	5.364	0.0031	-2.5 to 2.5	Pass
		50	3.87	5.883	0.0034	-2.5 to 2.5	Pass
	1732.6	20	3.5	0.570	0.0003	-2.5 to 2.5	Pass
			3.87	0.062	0.0000	-2.5 to 2.5	Pass
			4.4	-0.181	-0.0001	-2.5 to 2.5	Pass
		-30	3.87	-0.029	0.0000	-2.5 to 2.5	Pass
		-20	3.87	-0.020	0.0000	-2.5 to 2.5	Pass
		-10	3.87	0.100	0.0001	-2.5 to 2.5	Pass
		0	3.87	0.107	0.0001	-2.5 to 2.5	Pass
		10	3.87	0.132	0.0001	-2.5 to 2.5	Pass
		30	3.87	0.209	0.0001	-2.5 to 2.5	Pass
		40	3.87	-0.155	-0.0001	-2.5 to 2.5	Pass
		50	3.87	0.143	0.0001	-2.5 to 2.5	Pass
	1752.6	20	3.5	-4.254	-0.0024	-2.5 to 2.5	Pass
			3.87	-3.908	-0.0022	-2.5 to 2.5	Pass
			4.4	-4.584	-0.0026	-2.5 to 2.5	Pass
		-30	3.87	-3.984	-0.0023	-2.5 to 2.5	Pass
		-20	3.87	-4.443	-0.0025	-2.5 to 2.5	Pass
		-10	3.87	-4.092	-0.0023	-2.5 to 2.5	Pass
		0	3.87	-4.347	-0.0025	-2.5 to 2.5	Pass
		10	3.87	-3.634	-0.0021	-2.5 to 2.5	Pass
		30	3.87	-4.285	-0.0024	-2.5 to 2.5	Pass
		40	3.87	-4.203	-0.0024	-2.5 to 2.5	Pass
		50	3.87	-4.499	-0.0026	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 BandIV_OBW

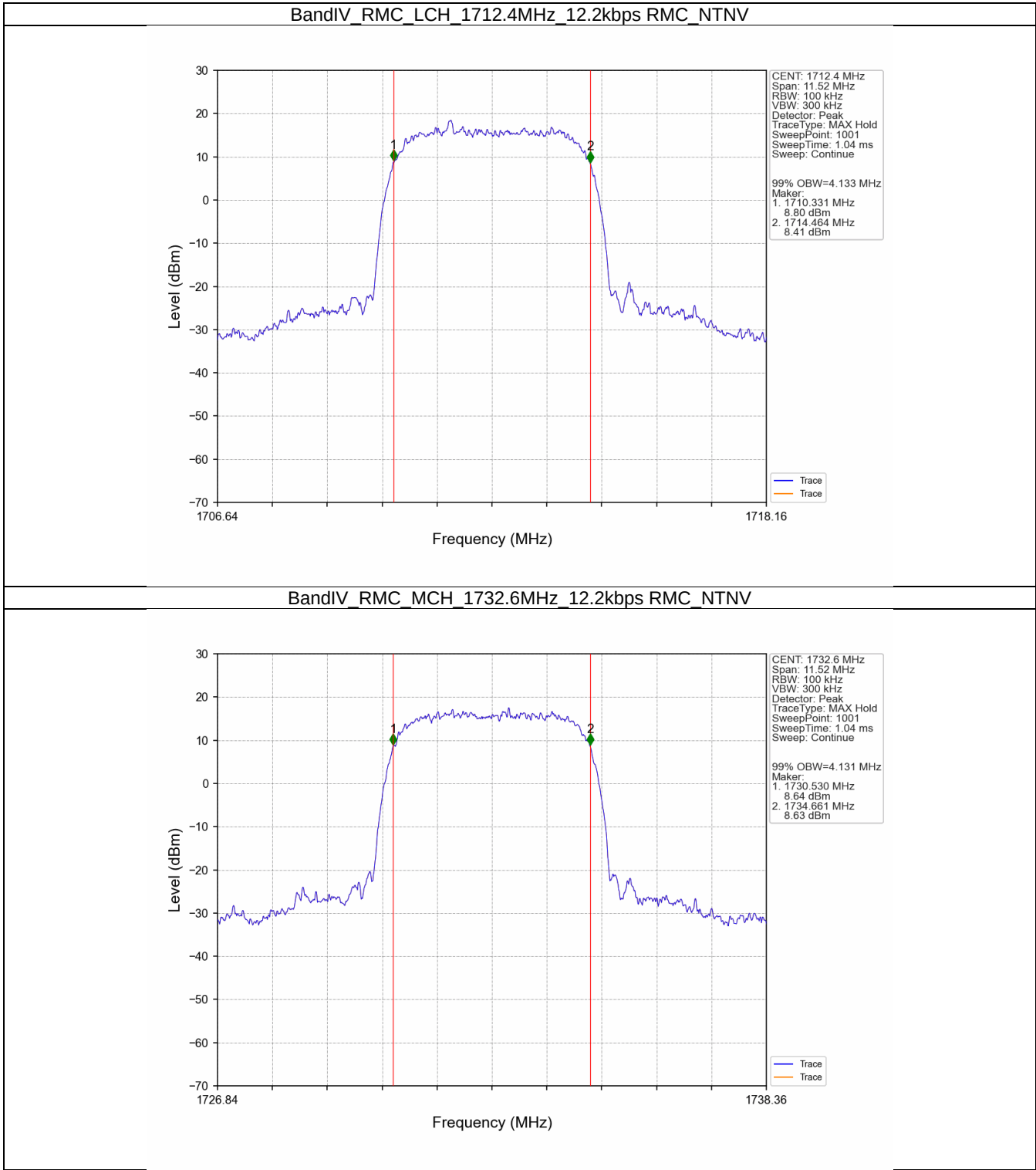
Band: IV						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.133	/	Pass
			1732.6	4.131	/	Pass
			1752.6	4.129	/	Pass

3.1.2 BandIV_XDB

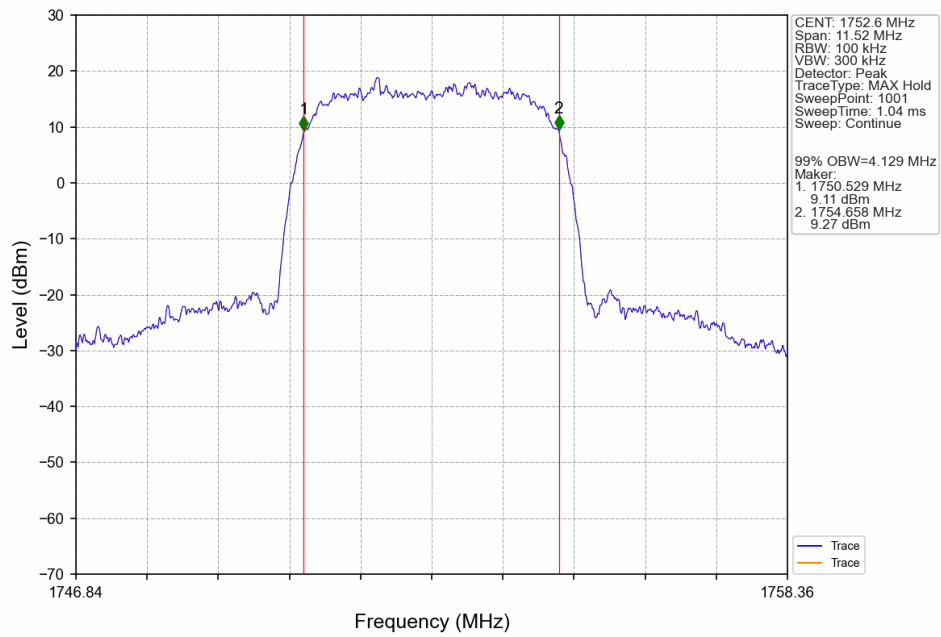
Band: IV						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.716	/	Pass
			1732.6	4.737	/	Pass
			1752.6	4.719	/	Pass

3.2 Test Graph

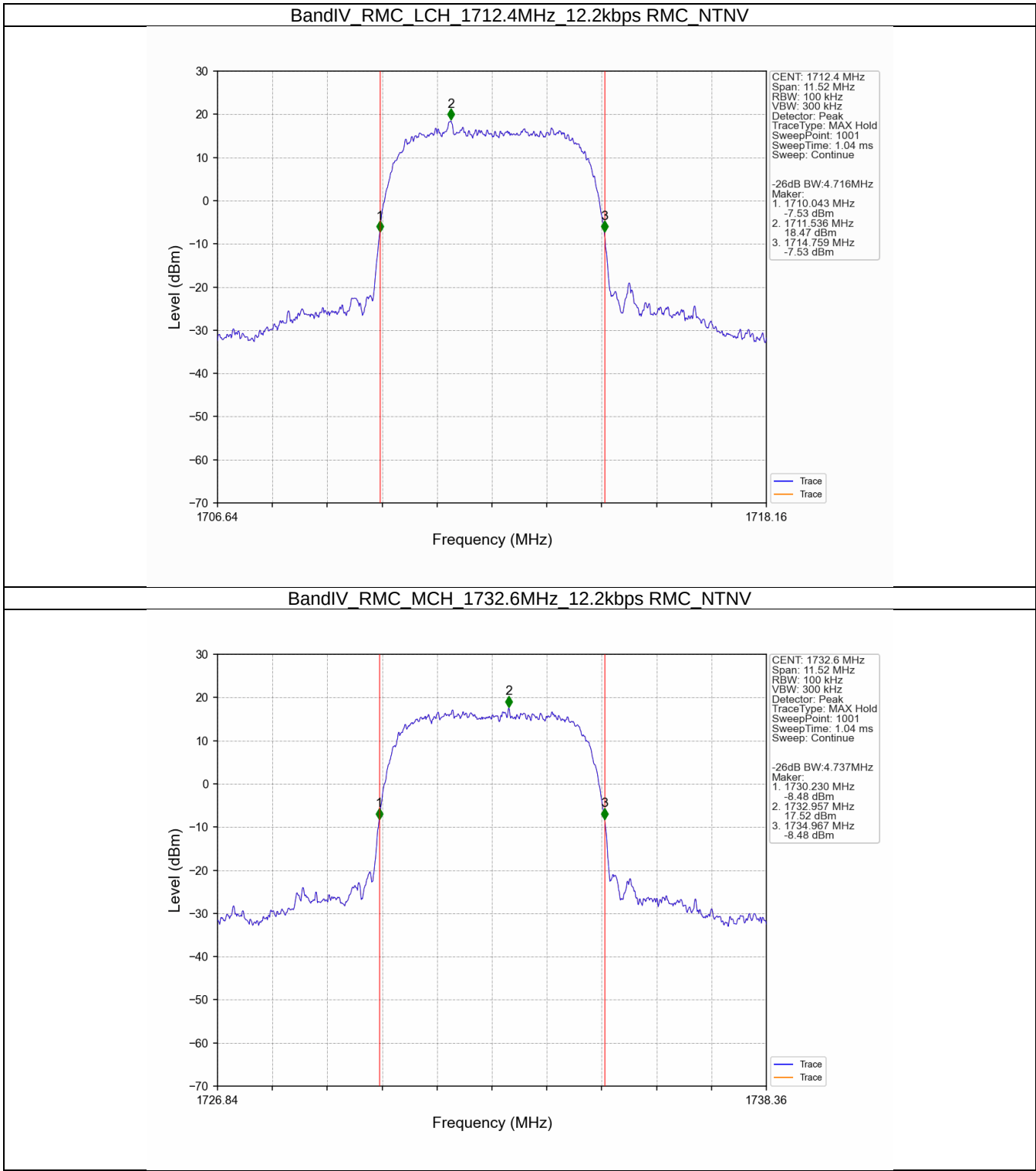
3.2.1 BandIV_OBW



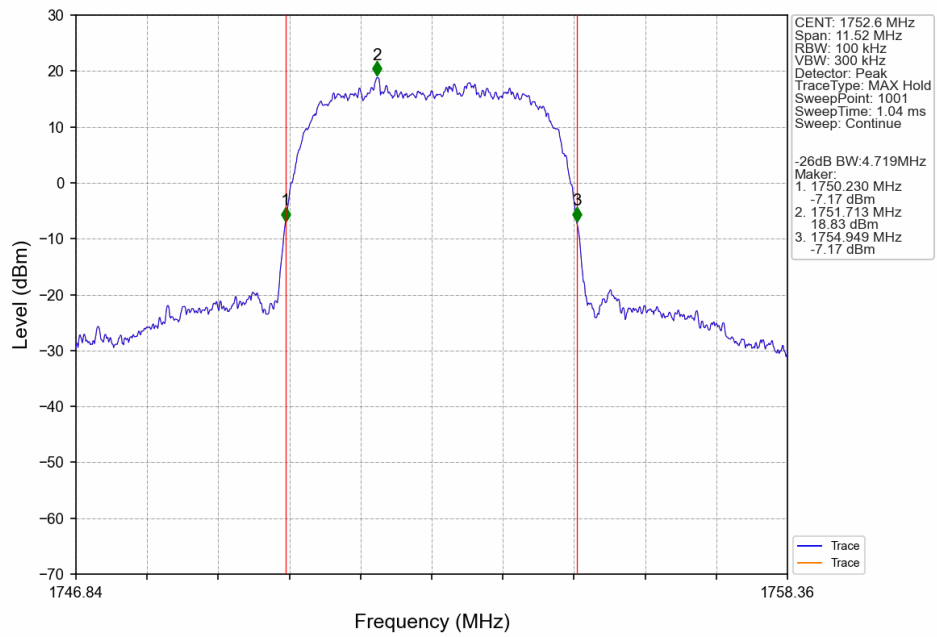
BandIV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



3.2.2 BandIV_XDB



BandIV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



4. Peak-Average Ratio

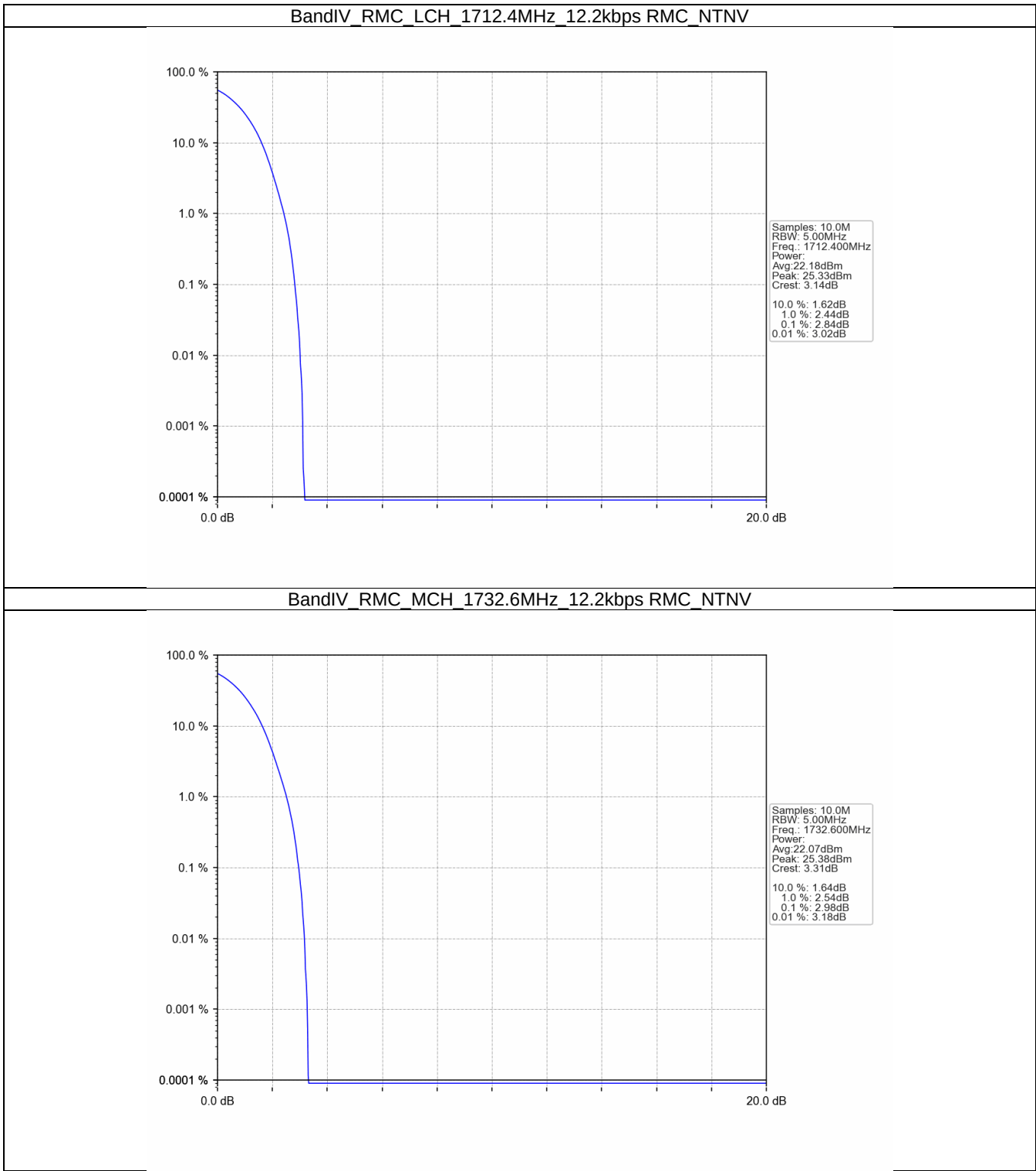
4.1 Test Result

4.1.1 BandIV

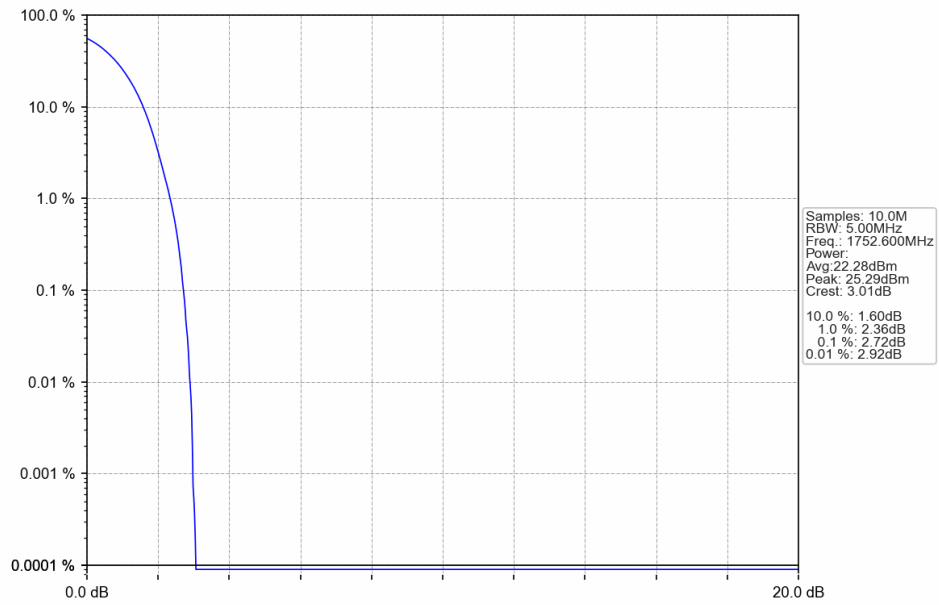
Band: IV						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	2.84	<=13	Pass
			1732.6	2.98	<=13	Pass
			1752.6	2.72	<=13	Pass

4.2 Test Graph

4.2.1 BandIV



BandIV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



5. Spurious Emission

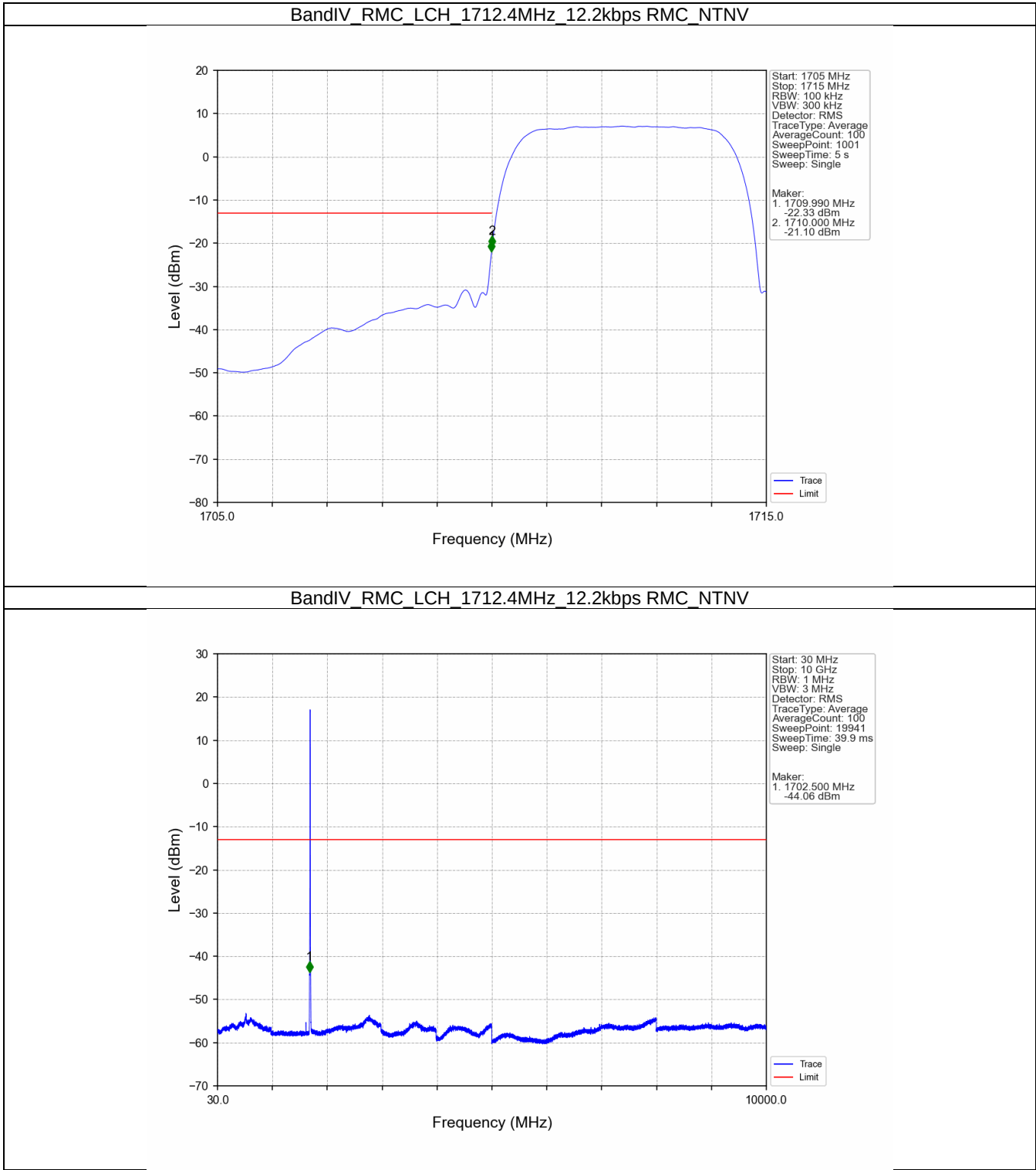
5.1 Test Result

5.1.1 Band IV

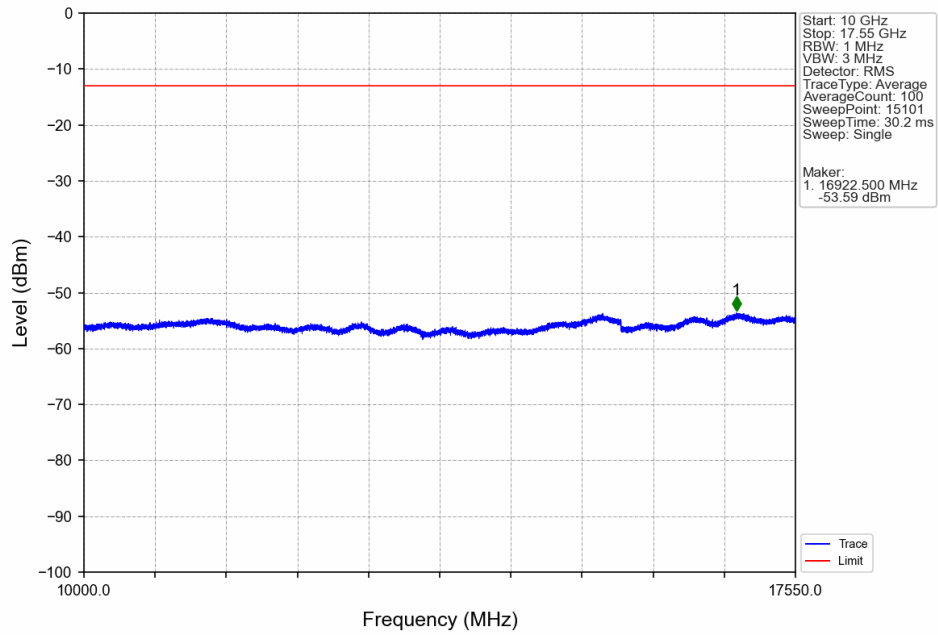
Band: IV						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	Refer To Test Graph	Pass	
			1732.6	Refer To Test Graph	Pass	
			1752.6	Refer To Test Graph	Pass	

5.2 Test Graph

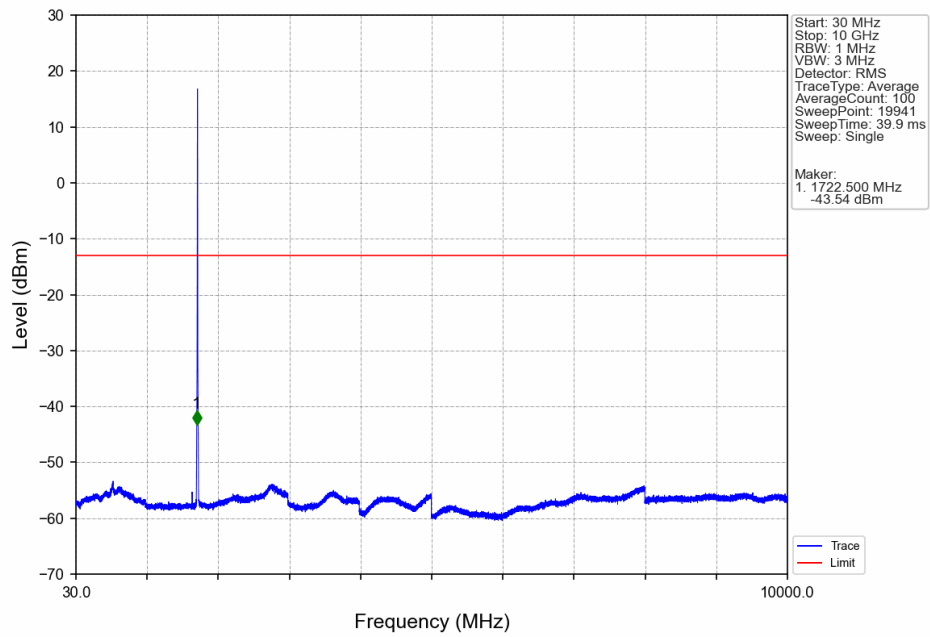
5.2.1 BandIV



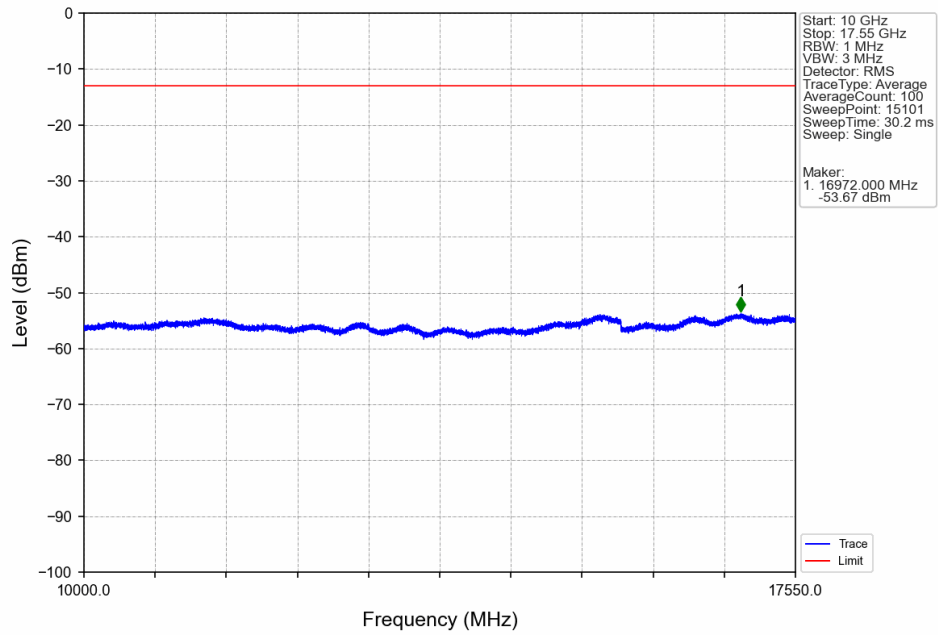
BandIV_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



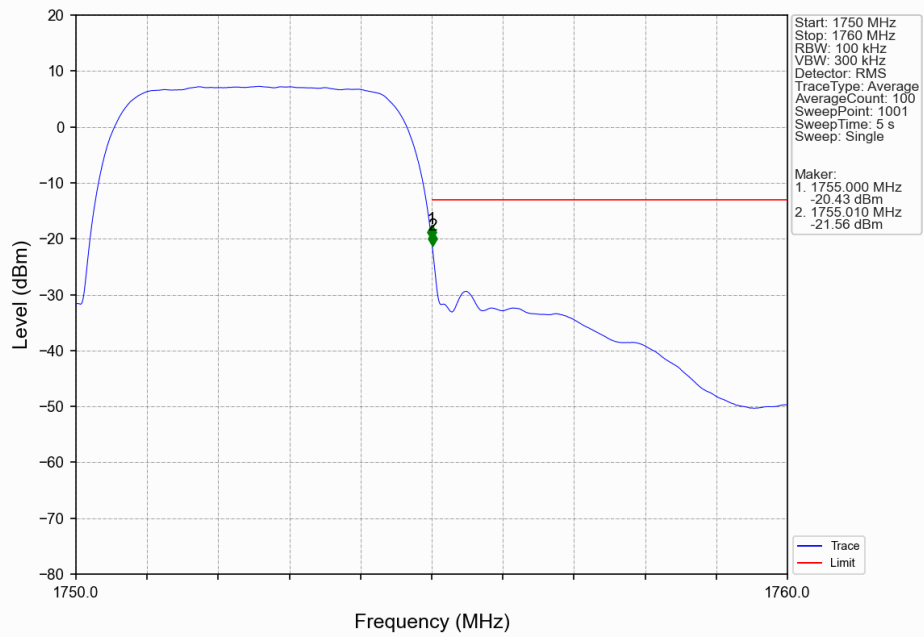
BandIV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



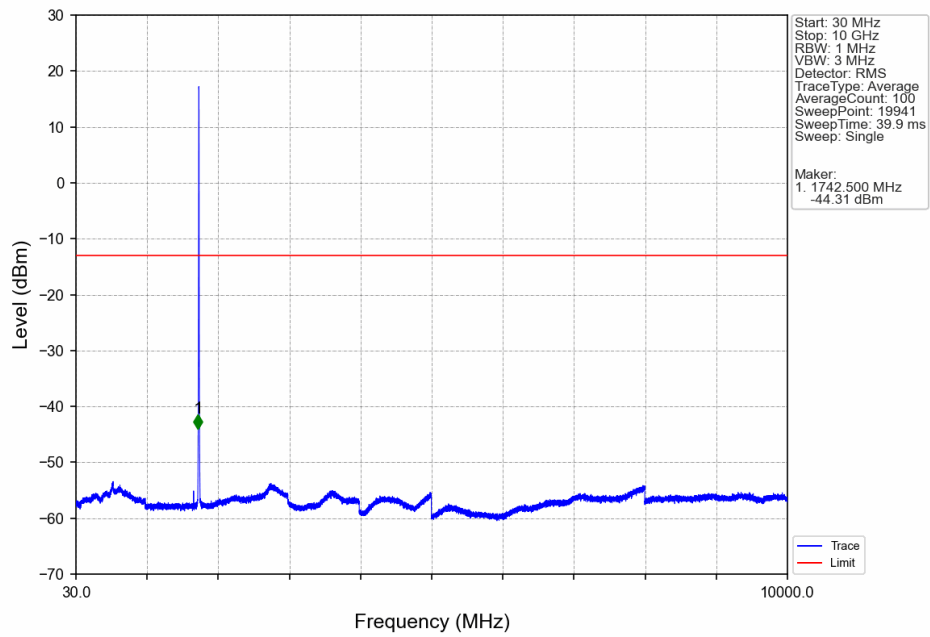
BandIV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



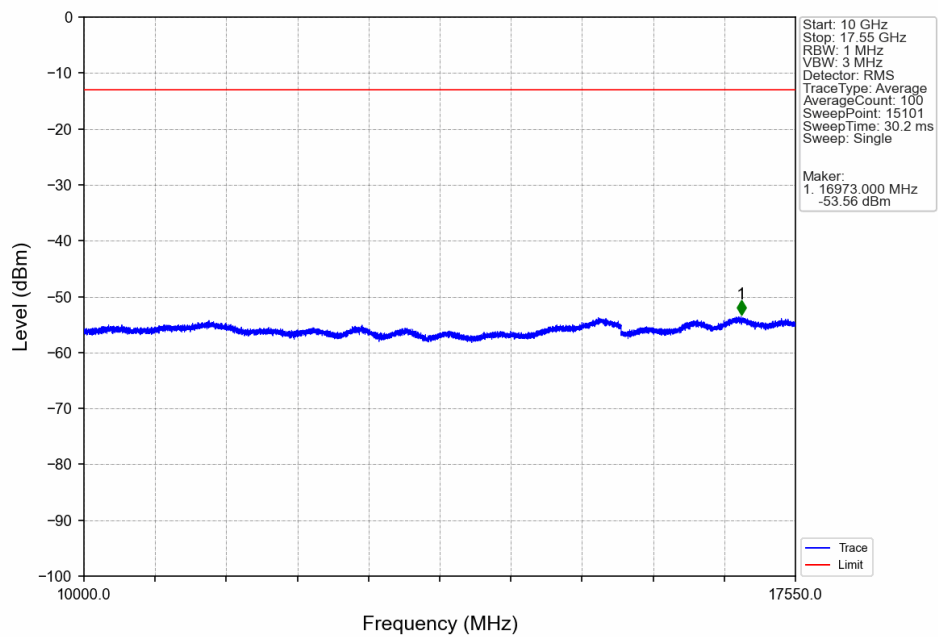
BandIV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



BandIV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



BandIV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



6. Field Strength of Spurious Radiation

Test Band = WCDMA Band IV_ TM1

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	3426.375	58.30	-48.38	28.44	-56.90	-13.00	43.90	Horizontal
2	5139.75	48.97	-47.85	31.59	-62.55	-13.00	49.55	Horizontal
3	6852.75	61.17	-46.81	35.26	-45.63	-13.00	32.63	Horizontal
4	8566.125	48.84	-44.08	36.92	-53.57	-13.00	40.57	Horizontal
5	10274.4	40.15	-41.40	38.99	-57.52	-13.00	44.52	Horizontal
6	11986.8	36.96	-39.49	39.40	-58.39	-13.00	45.39	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3426.375	53.31	-48.38	28.44	-61.89	-13.00	48.89	Vertical
2	5140.125	49.22	-47.85	31.59	-62.30	-13.00	49.30	Vertical
3	6846.75	61.93	-46.82	35.25	-44.89	-13.00	31.89	Vertical
4	8560.875	55.50	-44.09	36.92	-46.93	-13.00	33.93	Vertical
5	10268.25	42.77	-41.46	38.99	-54.97	-13.00	41.97	Vertical
6	11986.8	37.08	-39.49	39.40	-58.27	-13.00	45.27	Vertical

Test Band = WCDMA Band IV_ TM1
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	3463.875	59.72	-48.33	28.47	-55.40	-13.00	42.40	Horizontal
2	5195.25	49.88	-47.89	31.75	-61.52	-13.00	48.52	Horizontal
3	6933.375	61.08	-46.69	35.39	-45.47	-13.00	32.47	Horizontal
4	8667.375	50.27	-44.07	37.03	-52.03	-13.00	39.03	Horizontal
5	10395.6	38.66	-41.24	39.08	-58.76	-13.00	45.76	Horizontal
6	12128.2	37.69	-39.68	39.32	-57.93	-13.00	44.93	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3463.125	54.42	-48.33	28.47	-60.70	-13.00	47.70	Vertical
2	5197.875	50.85	-47.89	31.75	-60.54	-13.00	47.54	Vertical
3	6933.375	62.72	-46.69	35.39	-43.83	-13.00	30.83	Vertical
4	8667	57.37	-44.07	37.03	-44.93	-13.00	31.93	Vertical
5	10393.5	41.92	-41.23	39.08	-55.50	-13.00	42.50	Vertical
6	12128.2	37.75	-39.68	39.32	-57.87	-13.00	44.87	Vertical

Test Band = WCDMA Band IV_ TM1
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	3503.25	62.38	-48.29	28.51	-52.66	-13.00	39.66	Horizontal
2	5261.25	50.09	-47.82	31.93	-61.06	-13.00	48.06	Horizontal
3	7007.625	61.56	-46.54	35.51	-44.73	-13.00	31.73	Horizontal
4	8767.5	50.09	-44.03	37.14	-52.06	-13.00	39.06	Horizontal
5	10515.6	38.49	-40.74	39.16	-58.35	-13.00	45.35	Horizontal
6	12268.2	38.06	-39.76	39.24	-57.72	-13.00	44.72	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3503.25	56.40	-48.29	28.51	-58.64	-13.00	45.64	Vertical
2	5261.25	51.31	-47.82	31.93	-59.84	-13.00	46.84	Vertical
3	7007.625	59.15	-46.54	35.51	-47.14	-13.00	34.14	Vertical
4	8758.875	53.73	-44.04	37.13	-48.44	-13.00	35.44	Vertical
5	10515.6	38.26	-40.74	39.16	-58.58	-13.00	45.58	Vertical
6	12268.2	37.59	-39.76	39.24	-58.19	-13.00	45.19	Vertical