

## 1. Effective (Isotropic) Radiated Power Output Data

### 1.1 Test Result

#### 1.1.1 Band II\_EIRP

Band: II								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	23.15	2.15	25.30	<=33.00	Pass
			1880	23.27	2.15	25.42	<=33.00	Pass
			1907.6	23.43	2.15	25.58	<=33.00	Pass

Note1: EIRP=Conducted Power+Antenna Gain

## 2. Frequency Stability

### 2.1 Test Result

#### 2.1.1 Band II

Band: II							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1852.4	20	3.4	7.109	0.0038	/	Pass
			3.8	7.363	0.0040	/	Pass
			4.2	7.688	0.0042	/	Pass
		-30	3.8	7.167	0.0039	/	Pass
		-20	3.8	6.245	0.0034	/	Pass
		-10	3.8	5.659	0.0031	/	Pass
		0	3.8	8.427	0.0045	/	Pass
		10	3.8	7.645	0.0041	/	Pass
		30	3.8	6.925	0.0037	/	Pass
		40	3.8	6.431	0.0035	/	Pass
	50	3.8	8.089	0.0044	/	Pass	
	1880	20	3.4	-0.595	-0.0003	/	Pass
			3.8	-0.618	-0.0003	/	Pass
			4.2	-1.209	-0.0006	/	Pass
		-30	3.8	-1.517	-0.0008	/	Pass
		-20	3.8	-1.178	-0.0006	/	Pass
		-10	3.8	-1.884	-0.0010	/	Pass
		0	3.8	-1.762	-0.0009	/	Pass
		10	3.8	-0.153	-0.0001	/	Pass
		30	3.8	-0.230	-0.0001	/	Pass
		40	3.8	0.174	0.0001	/	Pass
	50	3.8	-0.234	-0.0001	/	Pass	
	1907.6	20	3.4	-10.101	-0.0053	/	Pass
			3.8	-9.596	-0.0050	/	Pass
			4.2	-10.313	-0.0054	/	Pass
		-30	3.8	-10.141	-0.0053	/	Pass
		-20	3.8	-11.070	-0.0058	/	Pass
		-10	3.8	-9.307	-0.0049	/	Pass
		0	3.8	-9.836	-0.0052	/	Pass
		10	3.8	-9.208	-0.0048	/	Pass
30		3.8	-10.638	-0.0056	/	Pass	
40		3.8	-10.071	-0.0053	/	Pass	
50	3.8	-9.872	-0.0052	/	Pass		

### 3. 99% & 26dB Bandwidth

#### 3.1 Test Result

##### 3.1.1 Band II\_OBW

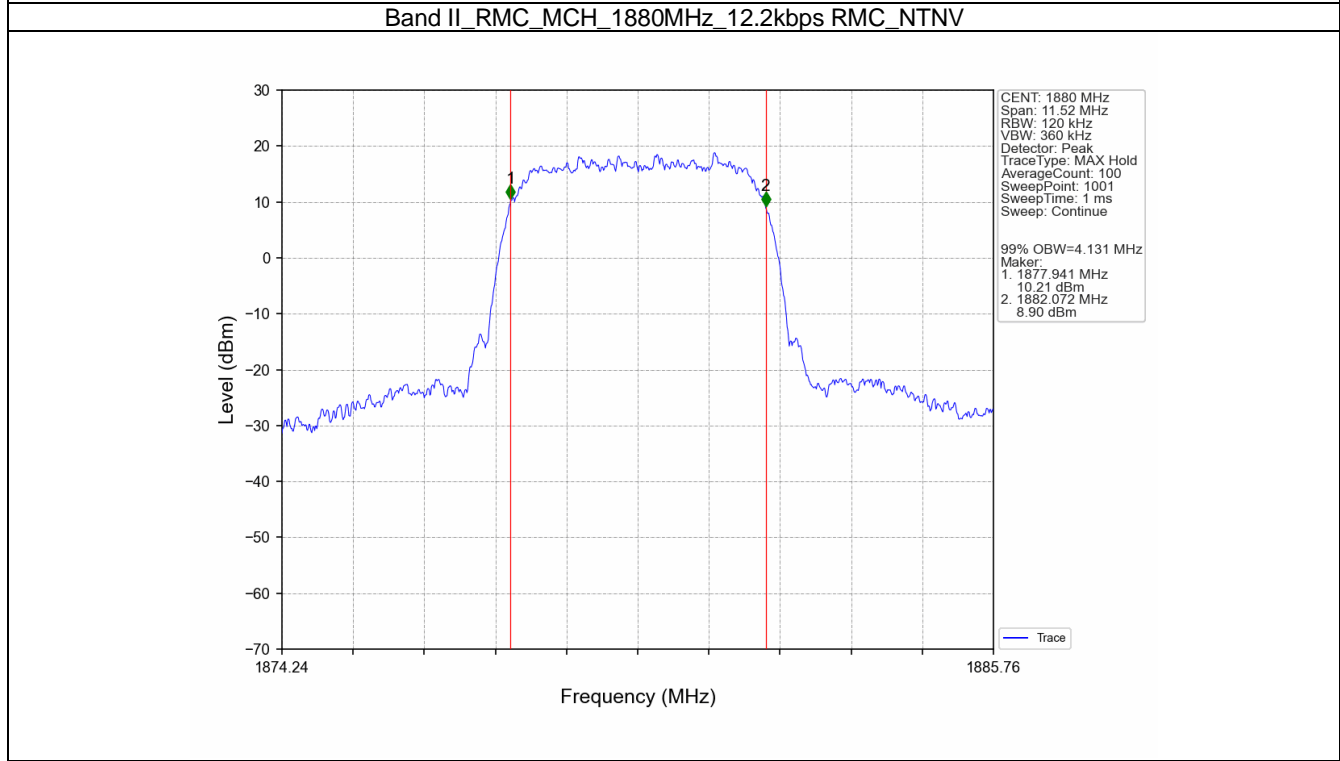
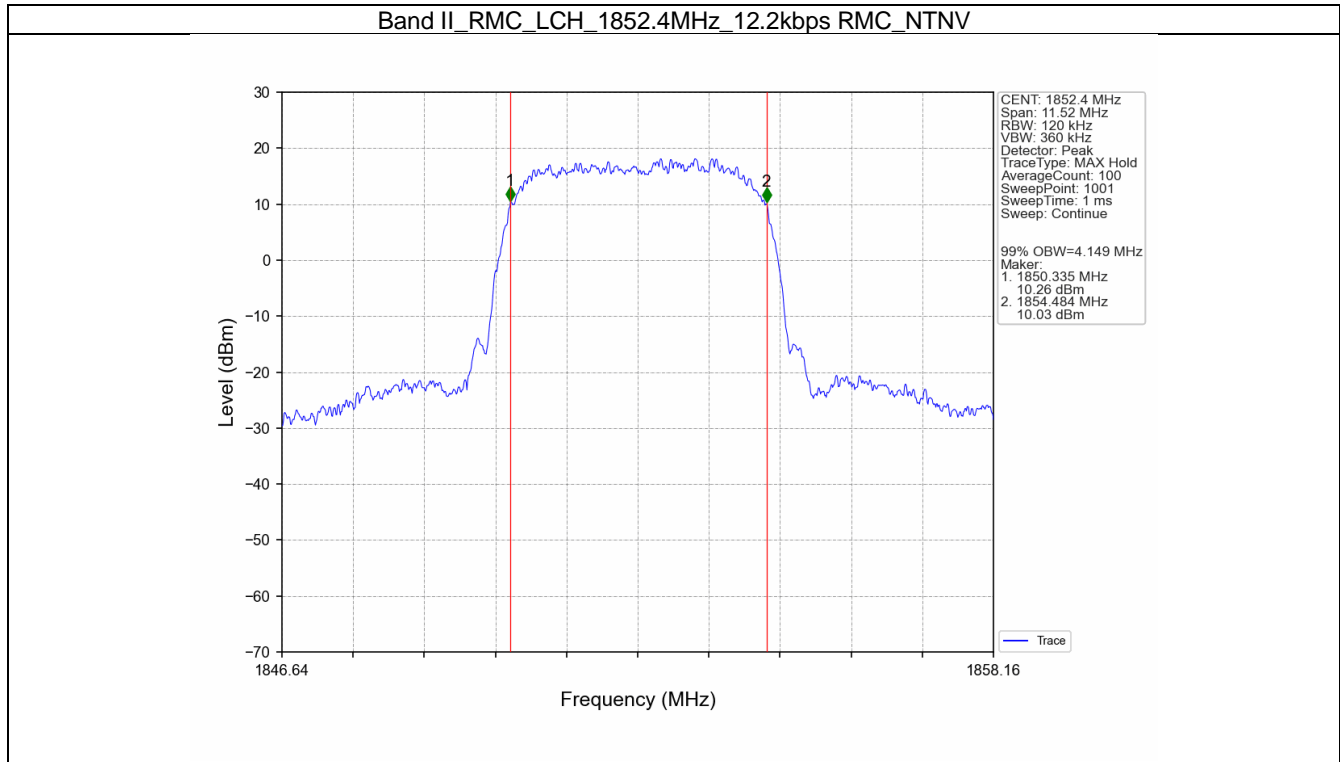
Band: II						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	4.149	/	Pass
			1880	4.131	/	Pass
			1907.6	4.098	/	Pass

##### 3.1.2 Band II\_XDB

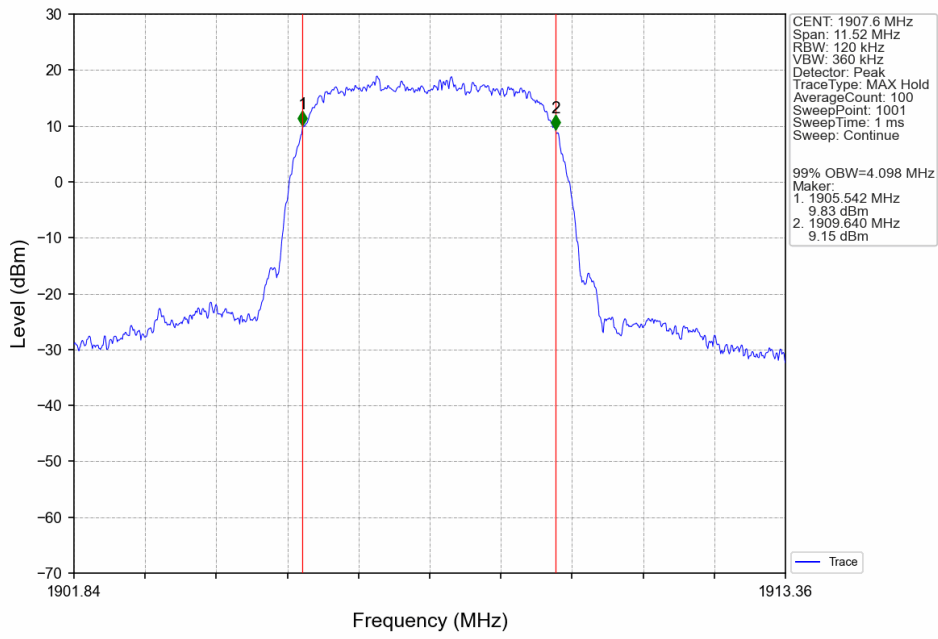
Band: II						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	4.722	/	Pass
			1880	4.723	/	Pass
			1907.6	4.717	/	Pass

### 3.2 Test Graph

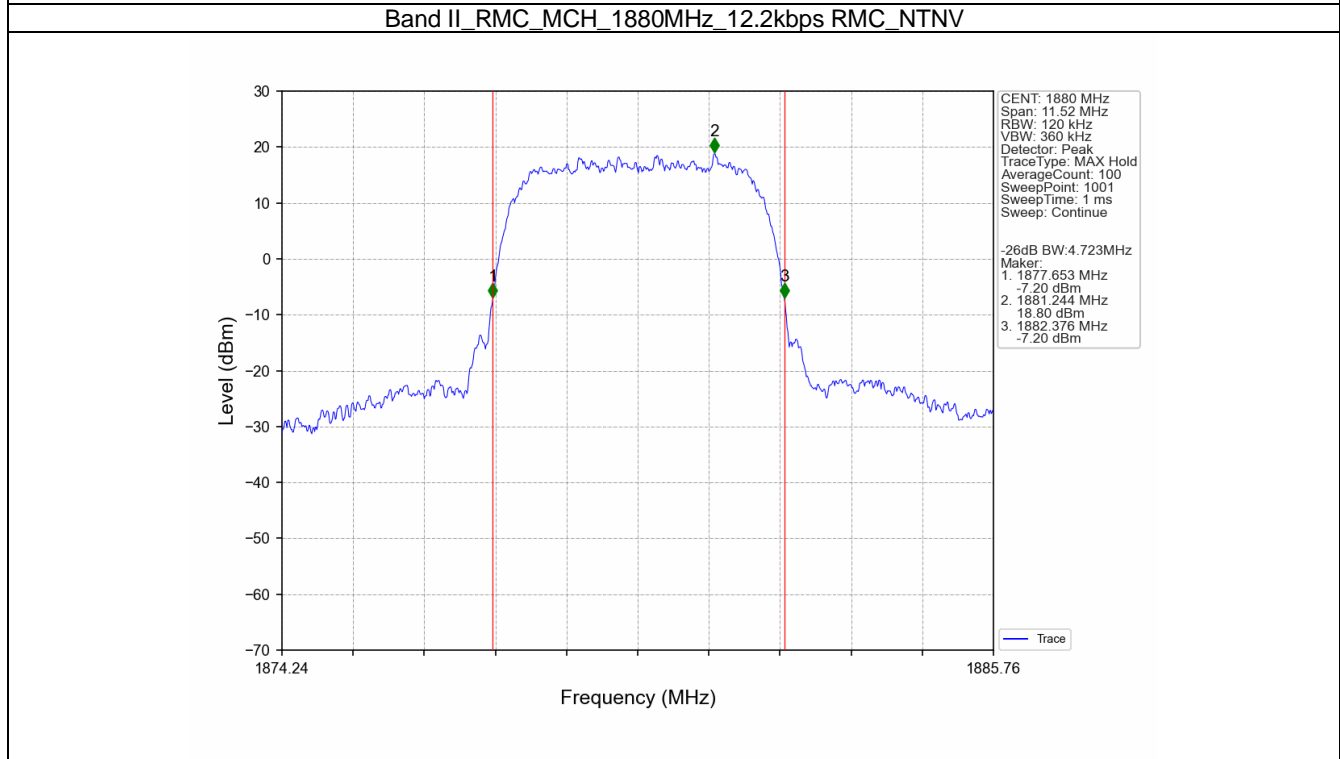
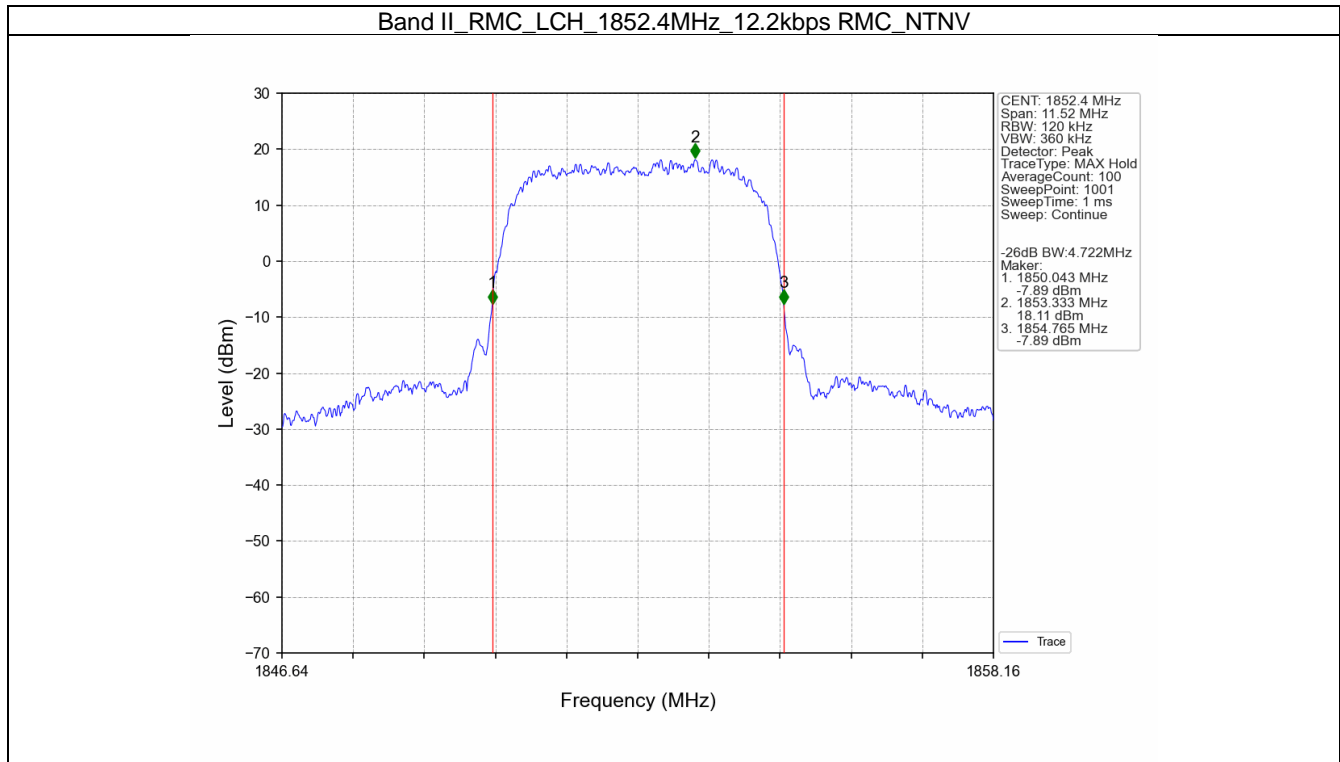
#### 3.2.1 Band II\_OBW



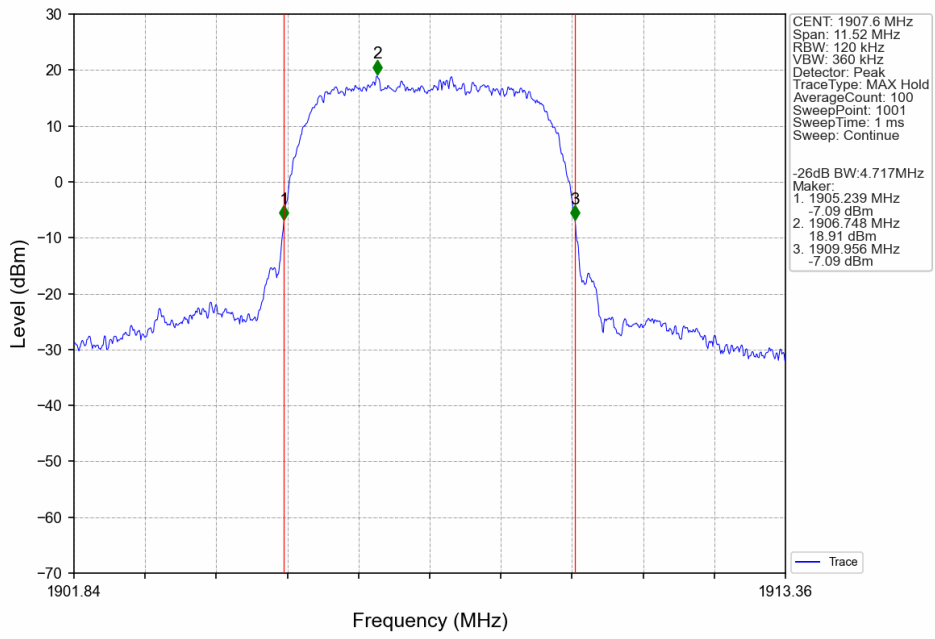
Band II\_RMC\_HCH\_1907.6MHz\_12.2kbps RMC\_NTNV



### 3.2.2 Band II\_XDB



Band II\_RMC\_HCH\_1907.6MHz\_12.2kbps RMC\_NTNV



## 4. Peak-Average Ratio

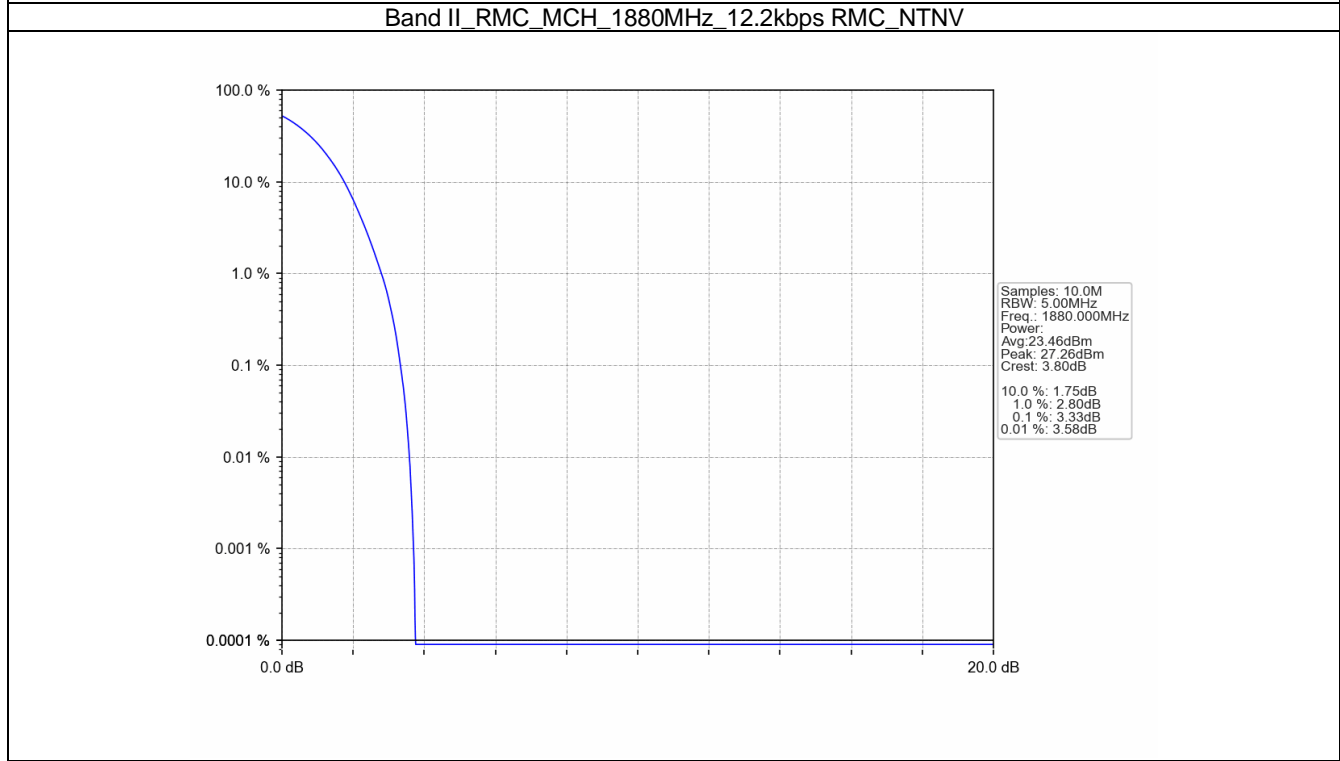
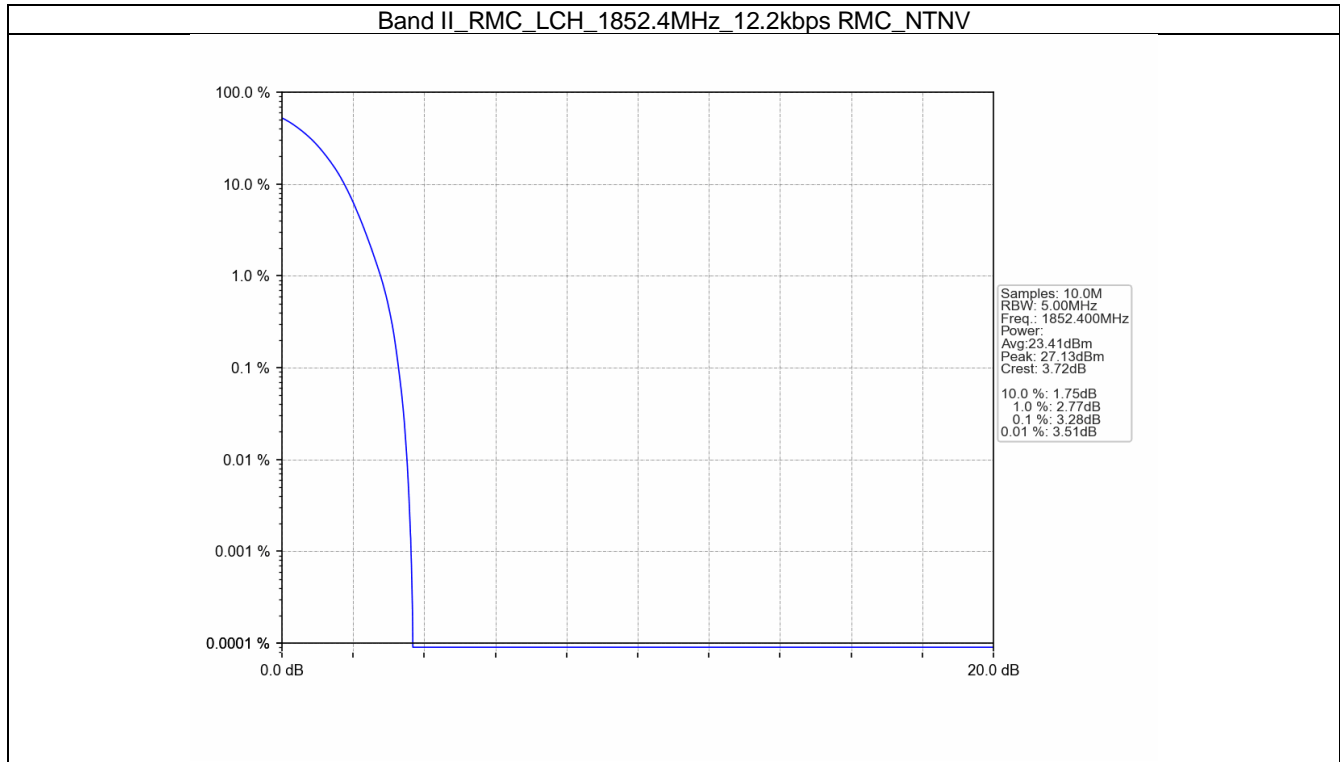
### 4.1 Test Result

#### 4.1.1 Band II

Band: II						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	3.28	<=13	Pass
			1880	3.33	<=13	Pass
			1907.6	3.14	<=13	Pass

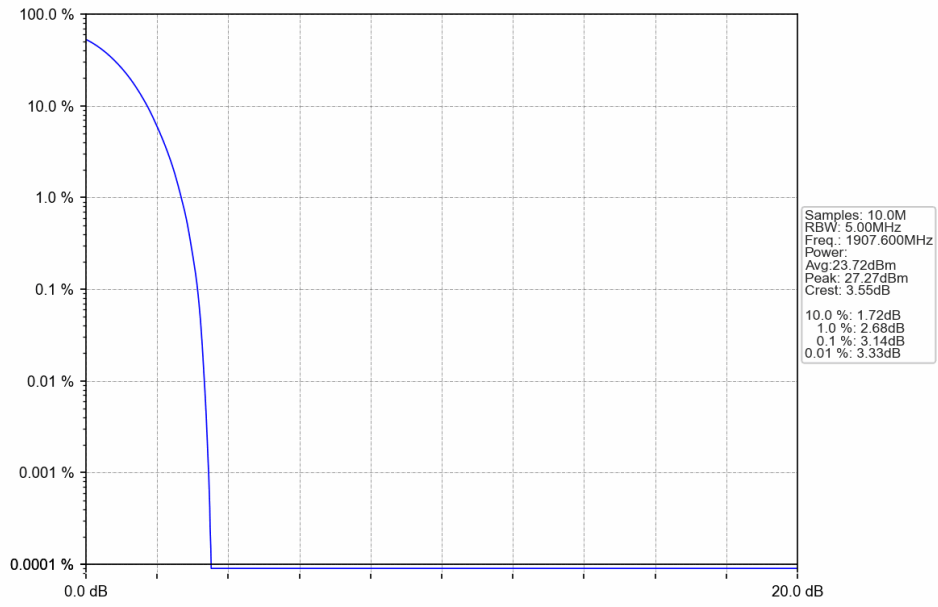
## 4.2 Test Graph

### 4.2.1 Band II





Band II\_RMC\_HCH\_1907.6MHz\_12.2kbps RMC\_NTNV



## 5. Spurious Emission & Band Edges

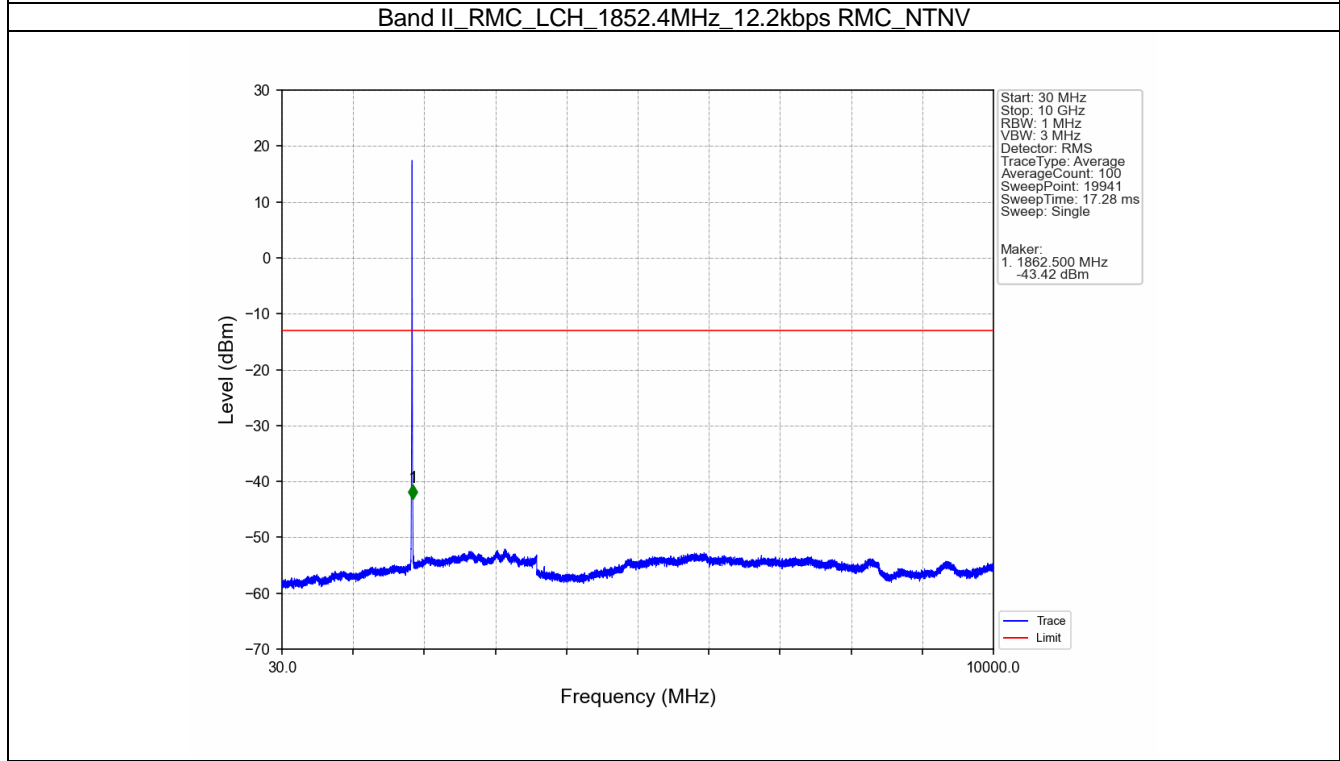
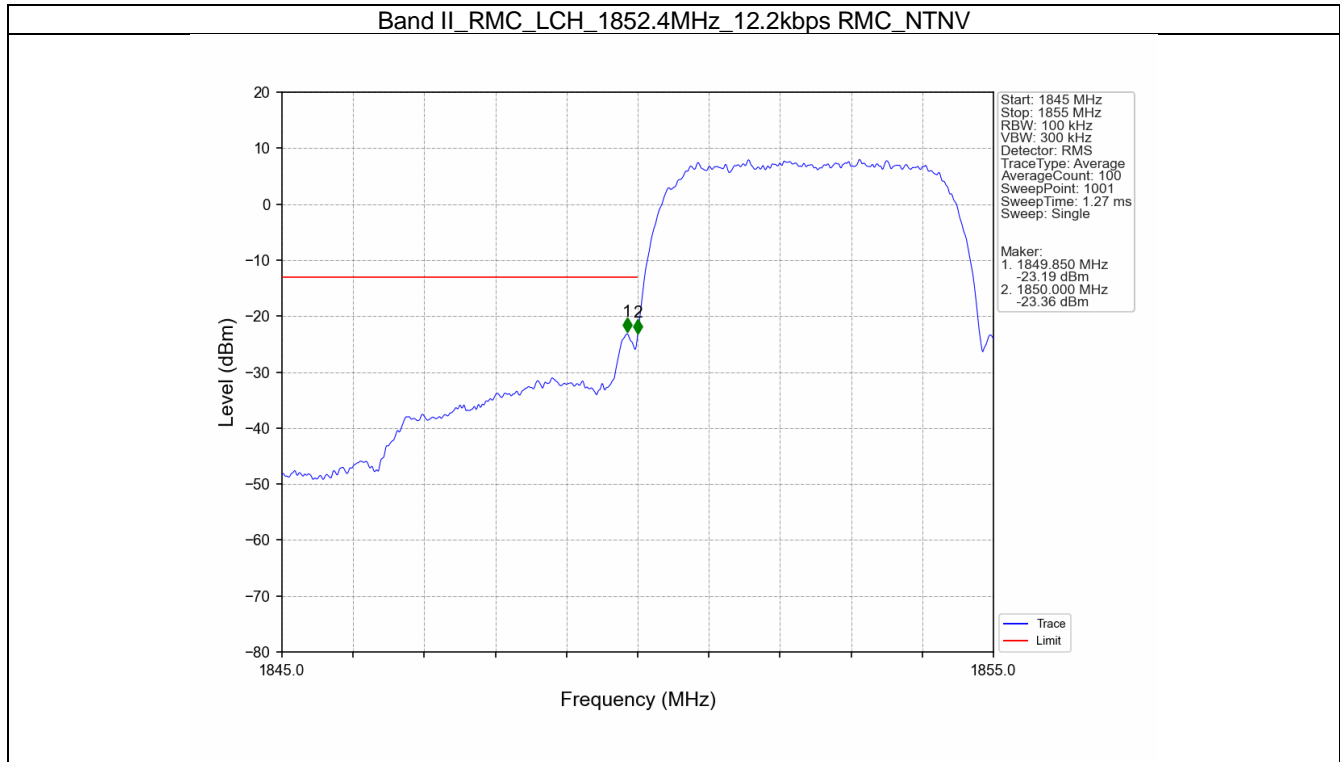
### 5.1 Test Result

#### 5.1.1 Band II

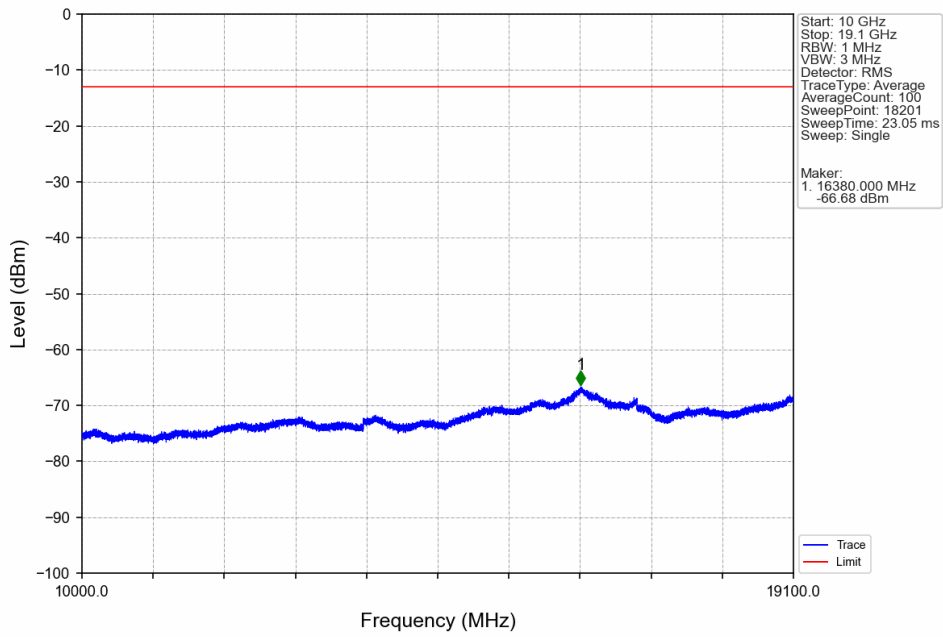
Band: II						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	Refer To Test Graph	Pass	
			1880	Refer To Test Graph	Pass	
			1907.6	Refer To Test Graph	Pass	

## 5.2 Test Graph

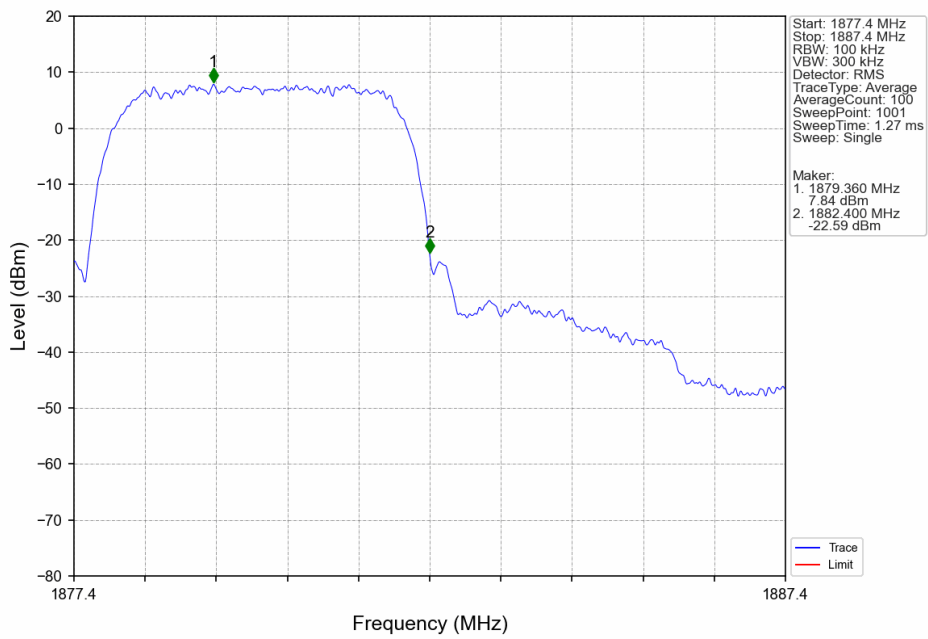
### 5.2.1 Band II



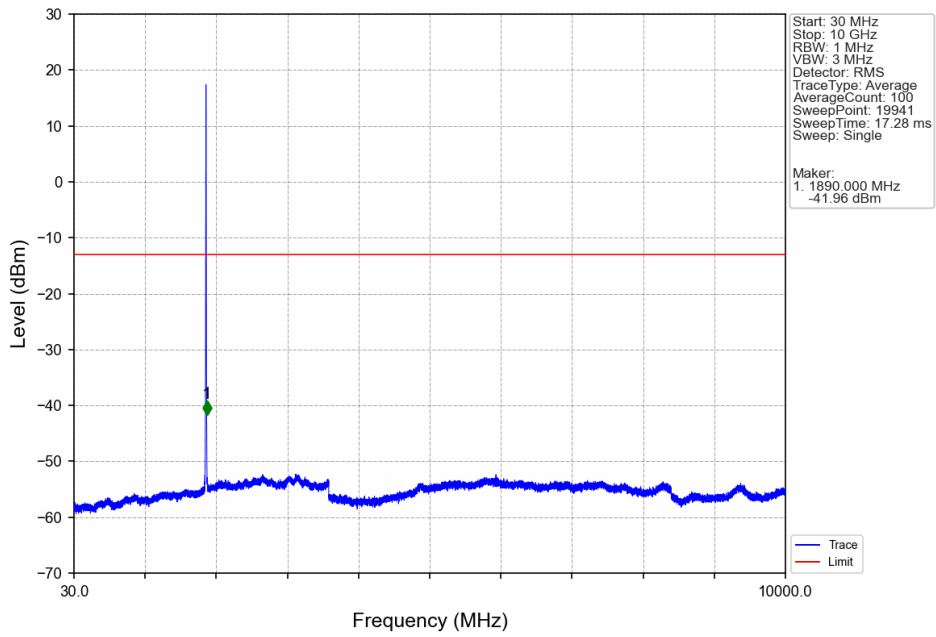
Band II\_RMC\_LCH\_1852.4MHz\_12.2kbps RMC\_NTNV



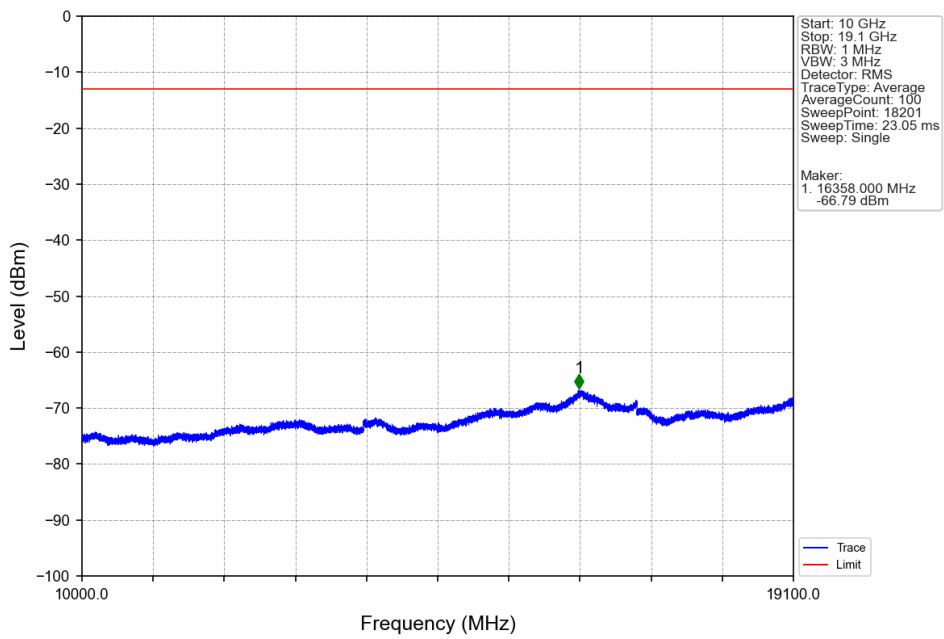
Band II\_RMC\_MCH\_1880MHz\_12.2kbps RMC\_NTNV



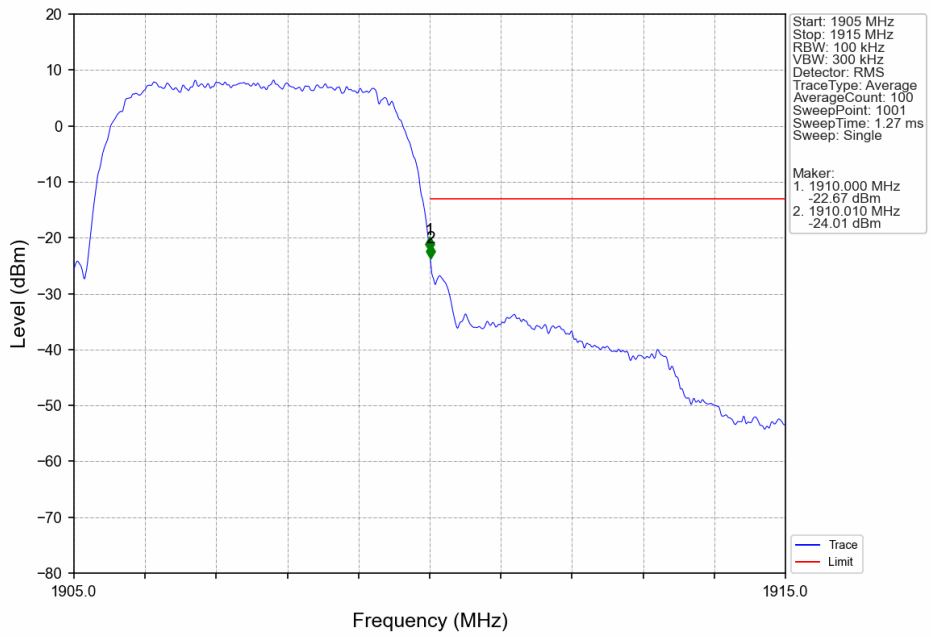
Band II\_RMC\_MCH\_1880MHz\_12.2kbps RMC\_NTNV



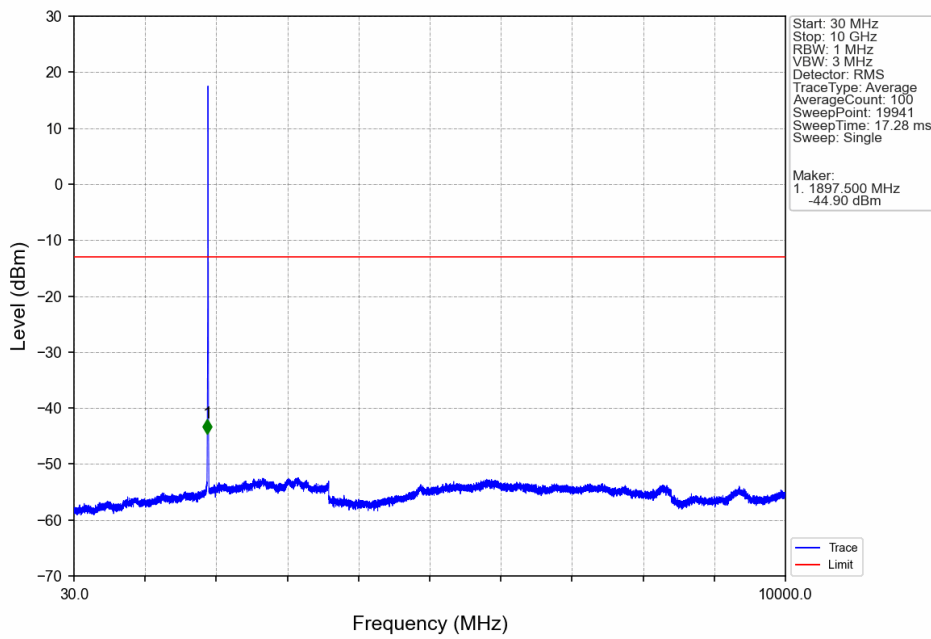
Band II\_RMC\_MCH\_1880MHz\_12.2kbps RMC\_NTNV



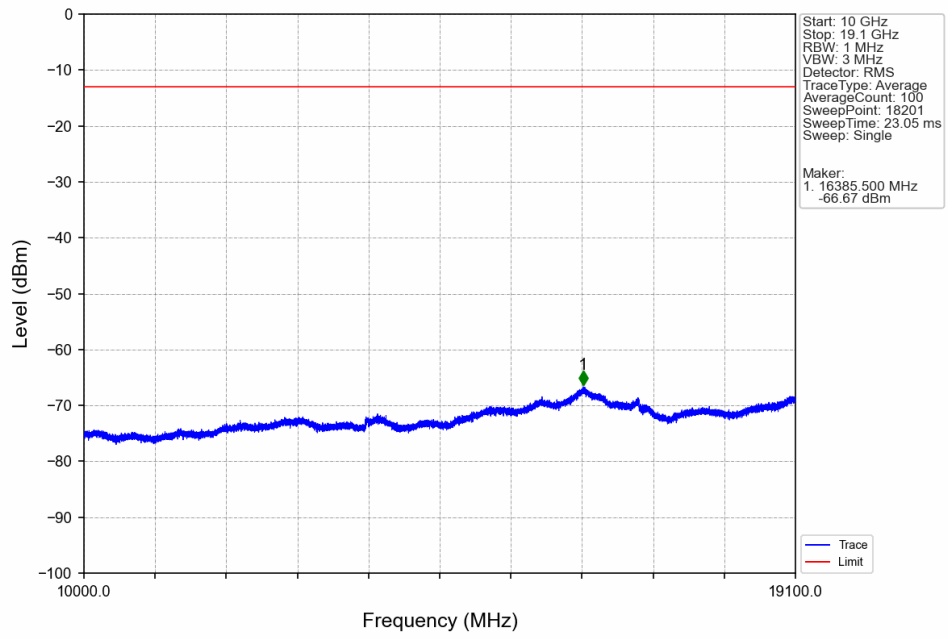
Band II\_RMC\_HCH\_1907.6MHz\_12.2kbps RMC\_NTNV



Band II\_RMC\_HCH\_1907.6MHz\_12.2kbps RMC\_NTNV



Band II\_RMC\_HCH\_1907.6MHz\_12.2kbps RMC\_NTNV



## 6. Field Strength of Spurious Radiation

**Test Band = WCDMA Band II \_ TM1**

**Test Channel = Low**

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3705.75	51.61	-45.52	28.93	-60.24	-13.00	47.24	Horizontal
2	4719.75	42.60	-45.59	30.95	-67.30	-13.00	54.30	Horizontal
3	6120.75	42.24	-44.51	32.81	-64.72	-13.00	51.72	Horizontal
4	7003.5	41.48	-43.57	35.01	-62.34	-13.00	49.34	Horizontal
5	8805.75	40.25	-41.25	36.62	-59.64	-13.00	46.64	Horizontal
6	10298.25	36.20	-39.10	38.53	-59.63	-13.00	46.63	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3702.75	48.73	-45.51	28.92	-63.12	-13.00	50.12	Vertical
2	4726.5	43.53	-45.58	30.96	-66.35	-13.00	53.35	Vertical
3	5856.75	42.75	-44.87	32.37	-65.01	-13.00	52.01	Vertical
4	7291.5	41.78	-43.72	35.82	-61.39	-13.00	48.39	Vertical
5	9472.5	39.46	-40.12	37.45	-58.48	-13.00	45.48	Vertical
6	10033.5	36.88	-39.20	38.50	-59.08	-13.00	46.08	Vertical



**Test Band = WCDMA Band II \_ 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	3761.25	50.20	-45.76	29.02	-61.80	-13.00	48.80	Horizontal
2	5364.75	43.77	-45.23	32.06	-64.66	-13.00	51.66	Horizontal
3	6435	41.75	-44.48	33.88	-64.11	-13.00	51.11	Horizontal
4	7850.25	41.09	-42.57	36.89	-59.85	-13.00	46.85	Horizontal
5	9810	37.60	-39.47	38.12	-59.01	-13.00	46.01	Horizontal
6	12149.25	34.62	-37.41	39.14	-58.91	-13.00	45.91	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3759	47.37	-45.75	29.01	-64.62	-13.00	51.62	Vertical
2	5388.75	43.42	-45.28	32.10	-65.02	-13.00	52.02	Vertical
3	7072.5	41.53	-44.03	35.20	-62.56	-13.00	49.56	Vertical
4	8599.5	40.33	-41.33	36.74	-59.52	-13.00	46.52	Vertical
5	10679.25	35.14	-38.00	38.57	-59.55	-13.00	46.55	Vertical
6	12767.25	33.86	-36.78	39.33	-58.85	-13.00	45.85	Vertical

**Test Band = WCDMA Band II \_ 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	3813.75	48.58	-45.97	29.10	-63.55	-13.00	50.55	Horizontal
2	5565	42.38	-45.13	32.31	-65.70	-13.00	52.70	Horizontal
3	7002	41.20	-43.56	35.01	-62.62	-13.00	49.62	Horizontal
4	8887.5	40.00	-41.24	36.57	-59.93	-13.00	46.93	Horizontal
5	11246.25	34.68	-37.40	38.72	-59.26	-13.00	46.26	Horizontal
6	14391.75	32.07	-34.91	41.11	-56.99	-13.00	43.99	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3813.75	45.53	-45.97	29.10	-66.60	-13.00	53.60	Vertical
2	5432.25	43.81	-45.28	32.18	-64.55	-13.00	51.55	Vertical
3	7029.75	41.38	-43.75	35.08	-62.54	-13.00	49.54	Vertical
4	8549.25	40.23	-41.48	36.77	-59.74	-13.00	46.74	Vertical
5	10713.75	34.98	-37.98	38.57	-59.69	-13.00	46.69	Vertical
6	13776.75	33.45	-36.34	40.49	-57.67	-13.00	44.67	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---