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# Appendix B.14

## WCDMA Band II



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# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 Band II\_EIRPAnt1

### 1.1.1 Test Result

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	23.69	2.00	25.69	<=33.00	Pass
			1880	23.98	2.00	25.98	<=33.00	Pass
			1907.6	23.45	2.00	25.45	<=33.00	Pass

Note1: EIRP=Conducted Power+Antenna Gain



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## 2. Frequency Stability

### 2.1 Band II

#### 2.1.1 Test Result

Band: II							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)	Verdict	
					Result		
RMC	1852.4	20	11.8	10.121	0.0055	Pass	
			12	10.607	0.0057	Pass	
			13.2	10.378	0.0056	Pass	
		-30	12	10.321	0.0056	Pass	
			-20	12	10.865	0.0059	Pass
		-10	12	10.614	0.0057	Pass	
			0	12	10.686	0.0058	Pass
		10	12	11.115	0.0060	Pass	
			30	12	10.836	0.0058	Pass
		40	12	11.122	0.0060	Pass	
	50		12	10.128	0.0055	Pass	
	1880	20	20	11.8	10.185	0.0054	Pass
				12	10.464	0.0056	Pass
				13.2	10.765	0.0057	Pass
		-30	12	10.607	0.0056	Pass	
			-20	12	10.722	0.0057	Pass
		-10	12	10.915	0.0058	Pass	
			0	12	10.300	0.0055	Pass
		10	12	10.772	0.0057	Pass	
			30	12	10.314	0.0055	Pass
		40	12	11.137	0.0059	Pass	
	50		12	10.521	0.0056	Pass	
	1907.6	20	20	11.8	9.706	0.0051	Pass
				12	10.042	0.0053	Pass
				13.2	10.486	0.0055	Pass
		-30	12	9.406	0.0049	Pass	
			-20	12	9.713	0.0051	Pass
		-10	12	10.364	0.0054	Pass	
			0	12	9.477	0.0050	Pass
		10	12	9.928	0.0052	Pass	
30			12	9.713	0.0051	Pass	
40		12	9.377	0.0049	Pass		
	50	12	9.484	0.0050	Pass		



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### 3. Field Strength of Spurious Radiation

**Test Band = WCDMA Band II\_ 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	3702.75	48.25	-43.01	30.29	-59.73	-13.00	46.73	Horizontal
2	5554.5	49.71	-40.67	33.29	-52.93	-13.00	39.93	Horizontal
3	7409.6	33.46	-37.88	36.49	-63.19	-13.00	50.19	Horizontal
4	9262	30.57	-34.26	37.68	-61.27	-13.00	48.27	Horizontal
5	11114.4	28.66	-30.26	38.40	-58.46	-13.00	45.46	Horizontal
6	12966.8	29.43	-29.67	39.56	-55.93	-13.00	42.93	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3706.5	47.89	-43.00	30.30	-60.07	-13.00	47.07	Vertical
2	5559.75	46.36	-40.68	33.30	-56.27	-13.00	43.27	Vertical
3	7409.6	33.48	-37.88	36.49	-63.17	-13.00	50.17	Vertical
4	9262	29.94	-34.26	37.68	-61.90	-13.00	48.90	Vertical
5	11114.4	28.57	-30.26	38.40	-58.55	-13.00	45.55	Vertical
6	12966.8	29.40	-29.67	39.56	-55.96	-13.00	42.96	Vertical



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**Test Band = WCDMA Band II\_ 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	3761.25	47.46	-42.94	30.49	-60.25	-13.00	47.25	Horizontal
2	5640	45.05	-40.63	33.58	-57.26	-13.00	44.26	Horizontal
3	7520	32.43	-37.77	36.62	-63.98	-13.00	50.98	Horizontal
4	9400	31.35	-33.75	37.72	-59.94	-13.00	46.94	Horizontal
5	11280	27.88	-30.09	38.40	-59.07	-13.00	46.07	Horizontal
6	13160	27.63	-29.29	39.71	-57.21	-13.00	44.21	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3759	45.71	-42.95	30.48	-62.01	-13.00	49.01	Vertical
2	5643.75	44.15	-40.62	33.59	-58.14	-13.00	45.14	Vertical
3	7520	32.00	-37.77	36.62	-64.41	-13.00	51.41	Vertical
4	9400	30.45	-33.75	37.72	-60.84	-13.00	47.84	Vertical
5	11280	27.72	-30.09	38.40	-59.23	-13.00	46.23	Vertical
6	13160	27.93	-29.29	39.71	-56.91	-13.00	43.91	Vertical



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**Test Band = WCDMA Band II\_ 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	3816.75	49.89	-42.89	30.68	-57.58	-13.00	44.58	Horizontal
2	5725.5	45.33	-40.43	33.87	-56.50	-13.00	43.50	Horizontal
3	7630	32.39	-37.60	36.73	-63.74	-13.00	50.74	Horizontal
4	9538	32.26	-33.73	37.76	-58.97	-13.00	45.97	Horizontal
5	11445.6	28.05	-30.19	38.40	-59.00	-13.00	46.00	Horizontal
6	13353.2	28.04	-29.74	39.85	-57.11	-13.00	44.11	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3816.75	46.01	-42.89	30.68	-61.46	-13.00	48.46	Vertical
2	5720.25	43.94	-40.45	33.85	-57.92	-13.00	44.92	Vertical
3	7630	33.30	-37.60	36.73	-62.83	-13.00	49.83	Vertical
4	9538	32.02	-33.73	37.76	-59.21	-13.00	46.21	Vertical
5	11445.6	28.35	-30.19	38.40	-58.70	-13.00	45.70	Vertical
6	13353.2	28.29	-29.74	39.85	-56.86	-13.00	43.86	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) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

2) All antennas of RSE are tested, and only the worst data is presented.



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#### 4. 99% & 26dB Bandwidth

##### 4.1 Band II\_OBW

##### 4.1.1 Test Result

Band: II						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	4.140	/	Pass
			1880	4.131	/	Pass
			1907.6	4.127	/	Pass

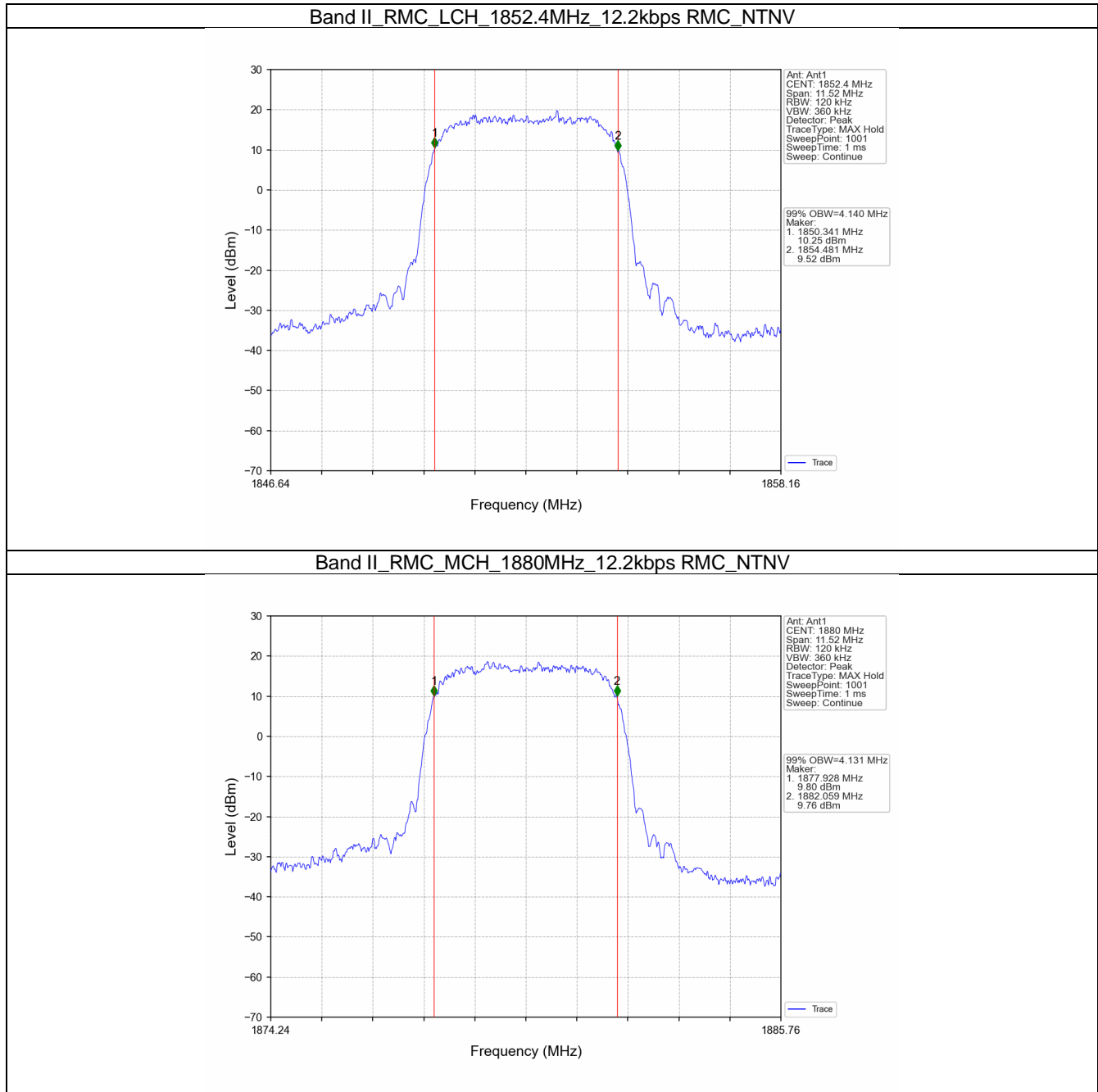


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4.1.2 Test Graph

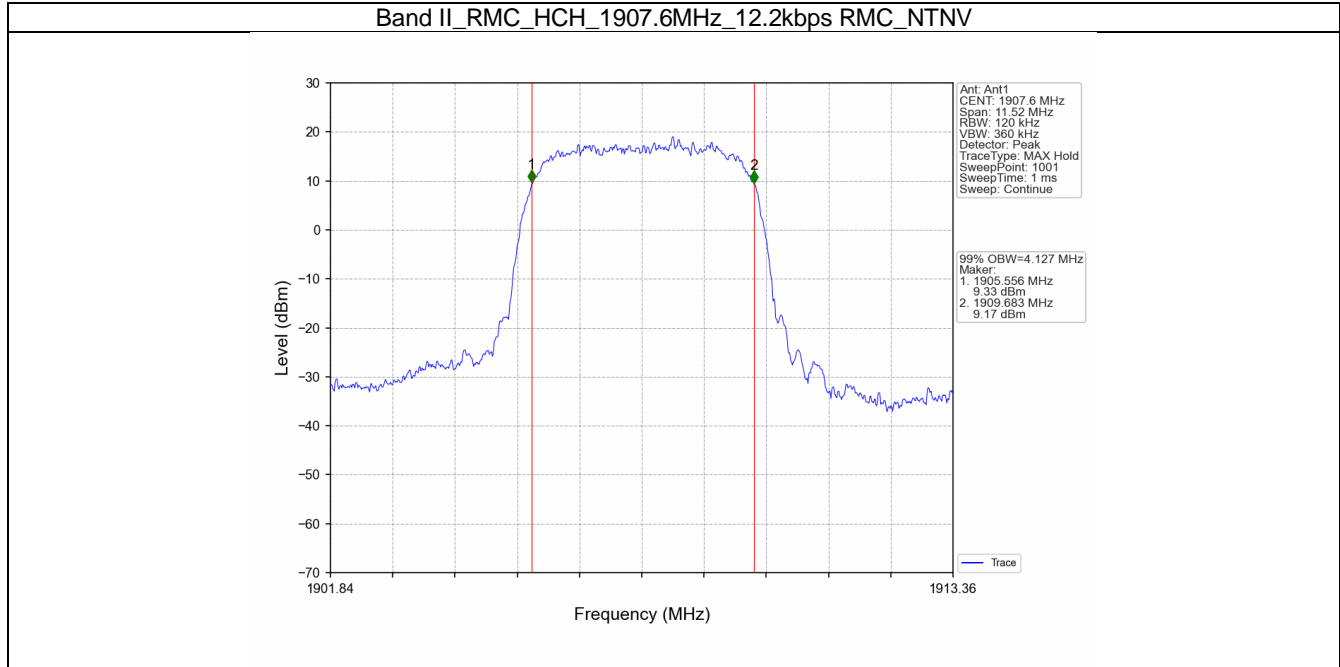


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## 4.2 Band II\_XDB

### 4.2.1 Test Result

Band: II						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	4.726	/	Pass
			1880	4.730	/	Pass
			1907.6	4.717	/	Pass

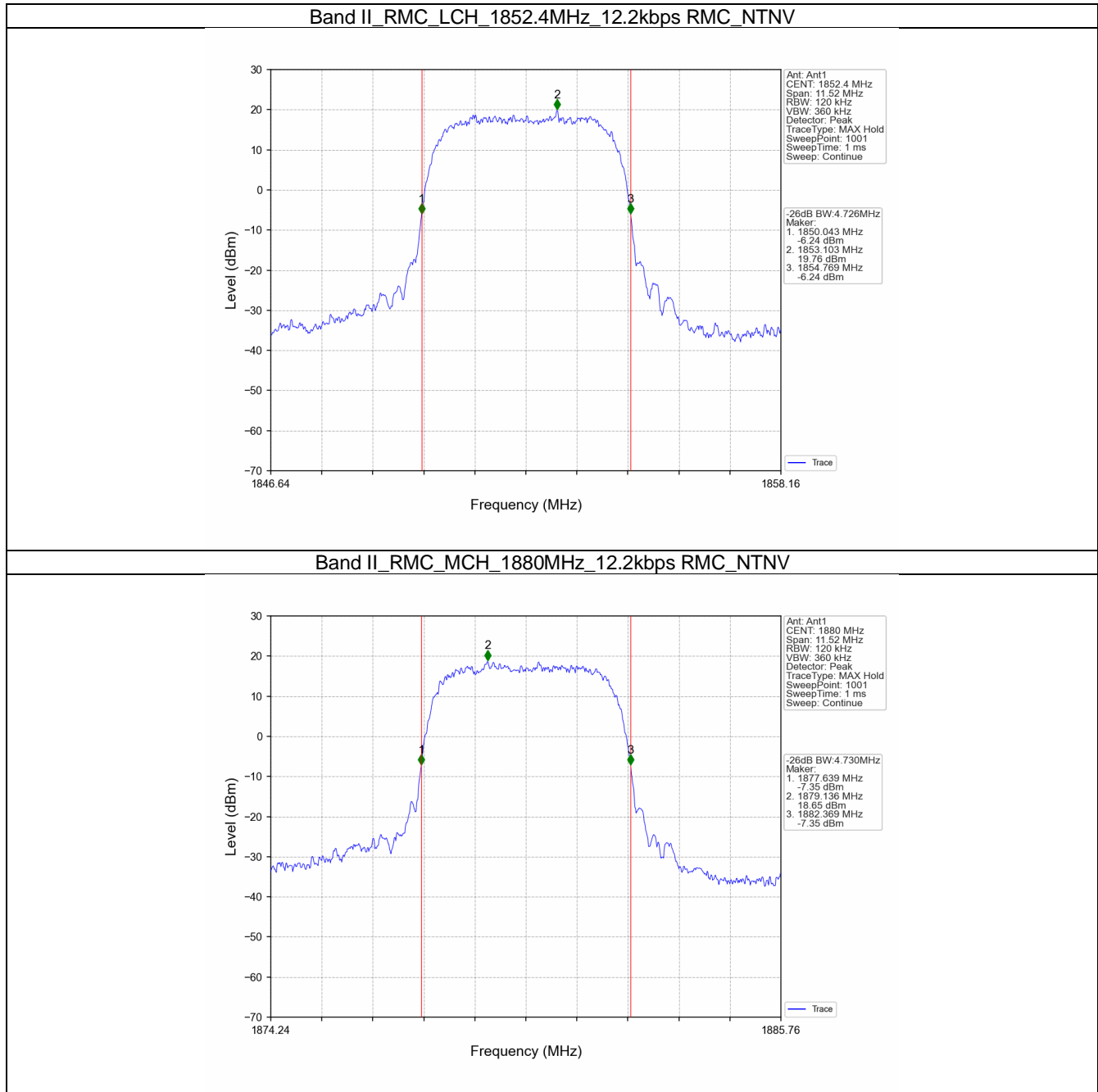


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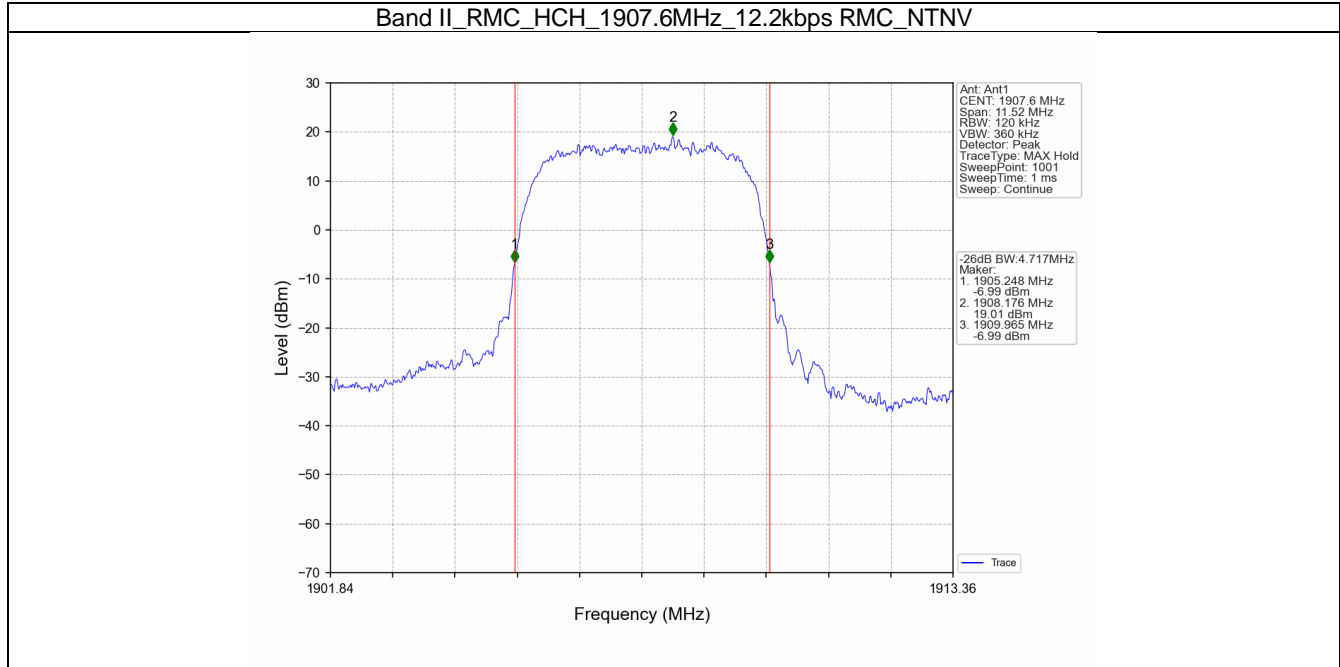
4.2.2 Test Graph



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## 5. Peak-Average Ratio

### 5.1 Band II

#### 5.1.1 Test Result

Band: II						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	3.04	<=13	Pass
			1880	3.11	<=13	Pass
			1907.6	3.11	<=13	Pass

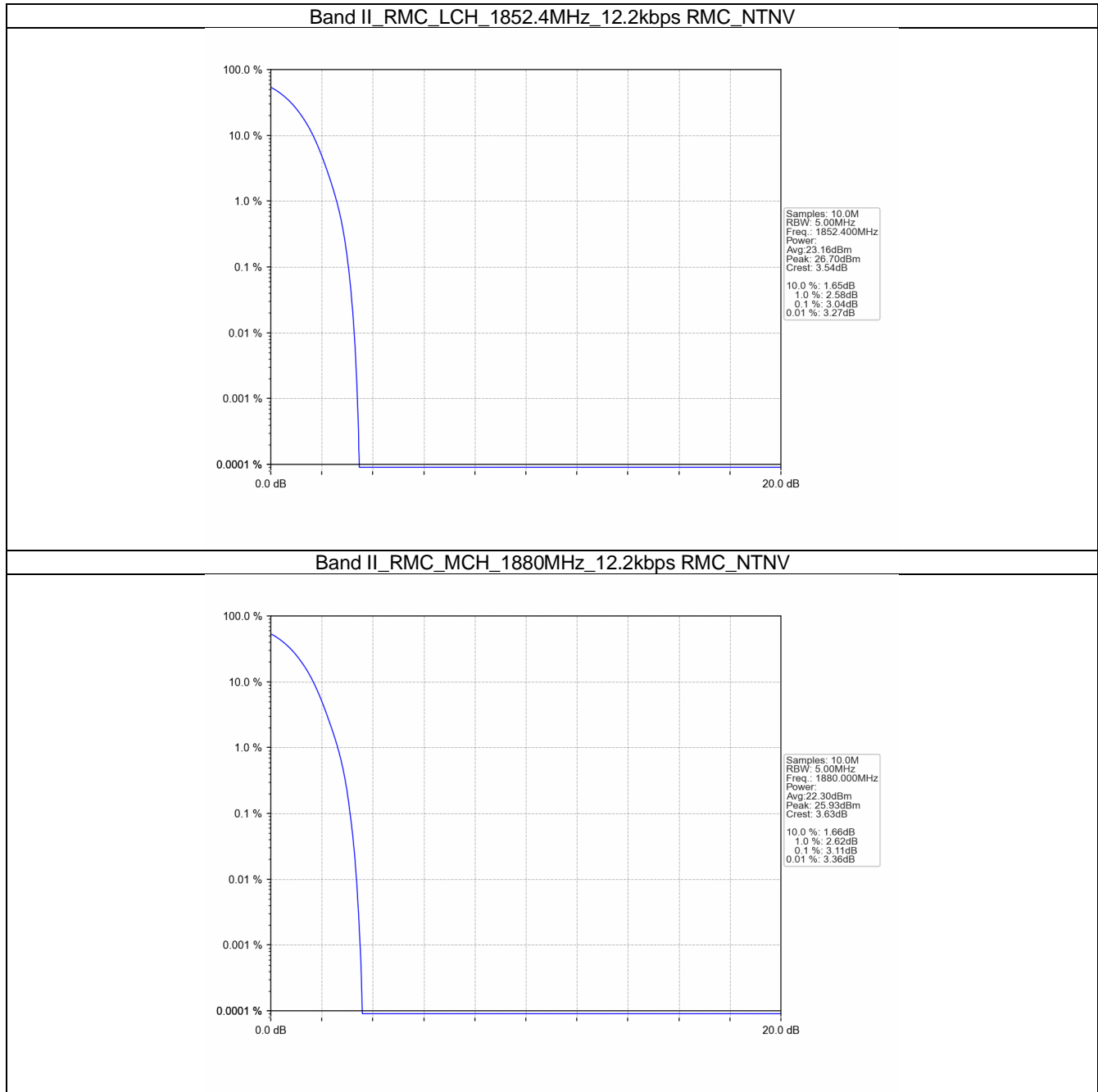


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5.1.2 Test Graph

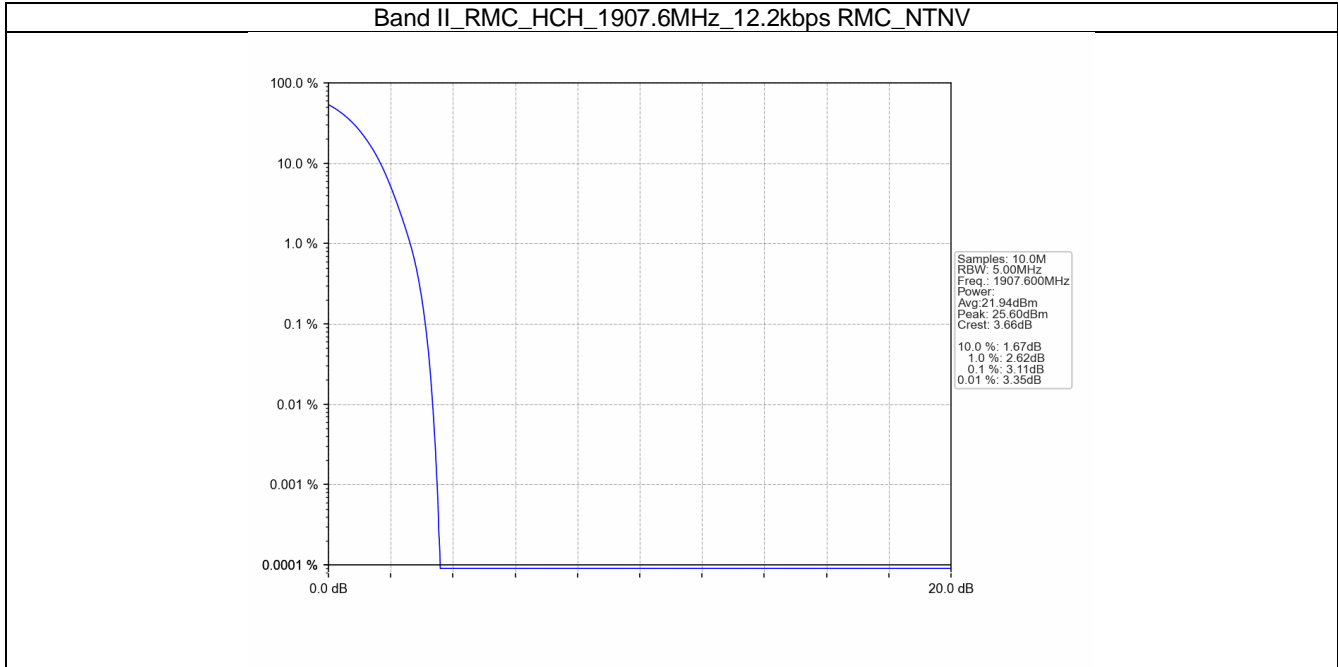


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Band II\_RMC\_HCH\_1907.6MHz\_12.2kbps RMC\_NTNV



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## 6. Spurious Emission & Band Edges

### 6.1 Band II

#### 6.1.1 Test Result

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



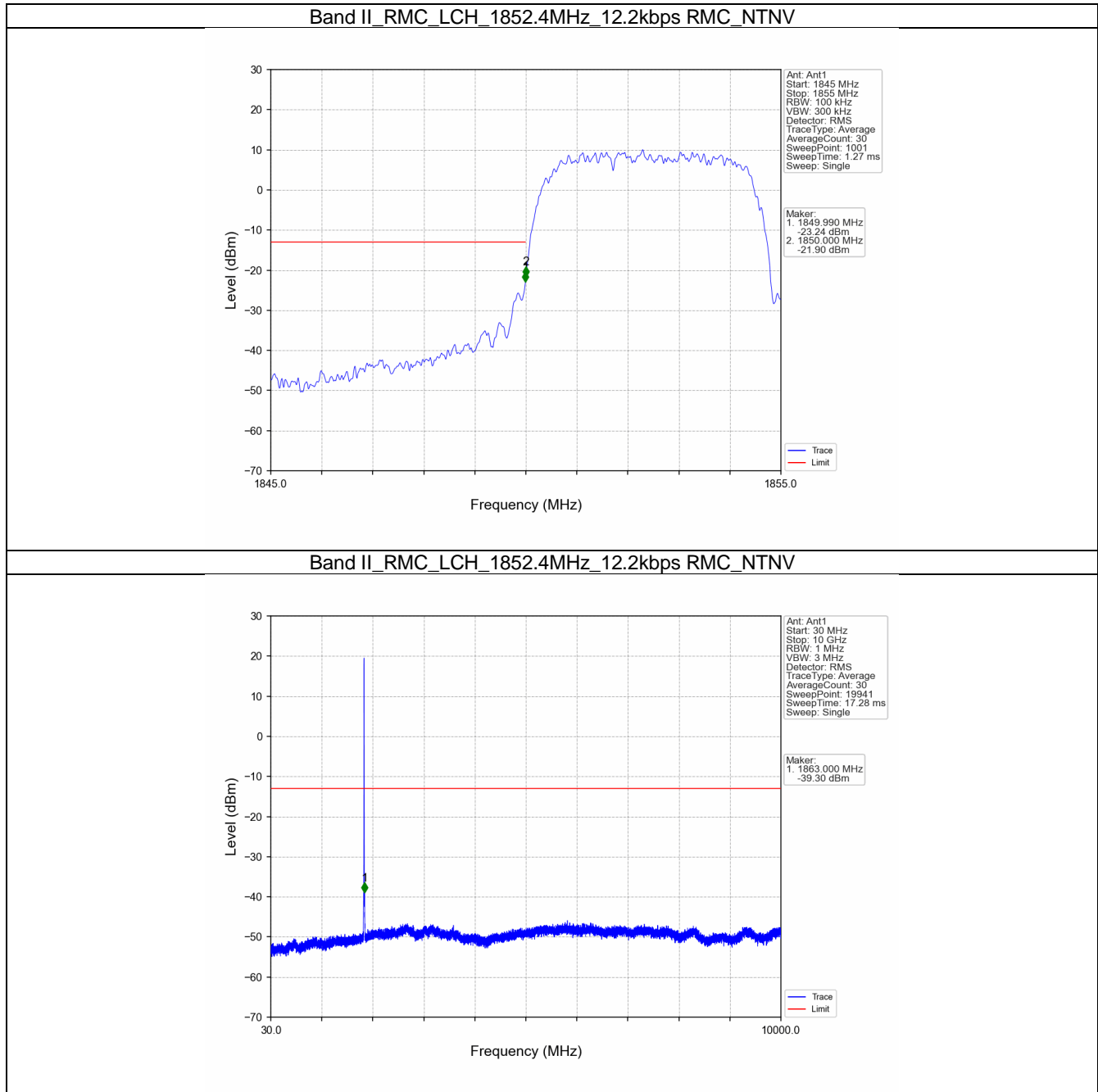
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6.1.2 Test Graph

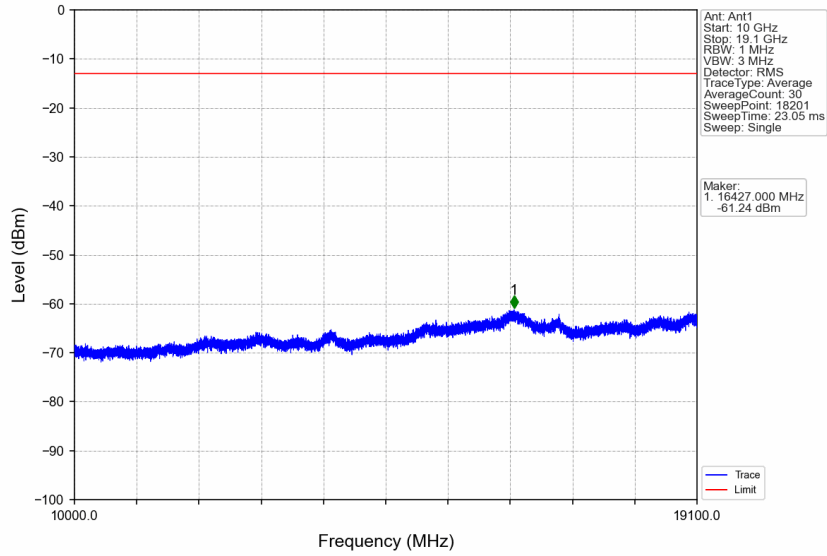


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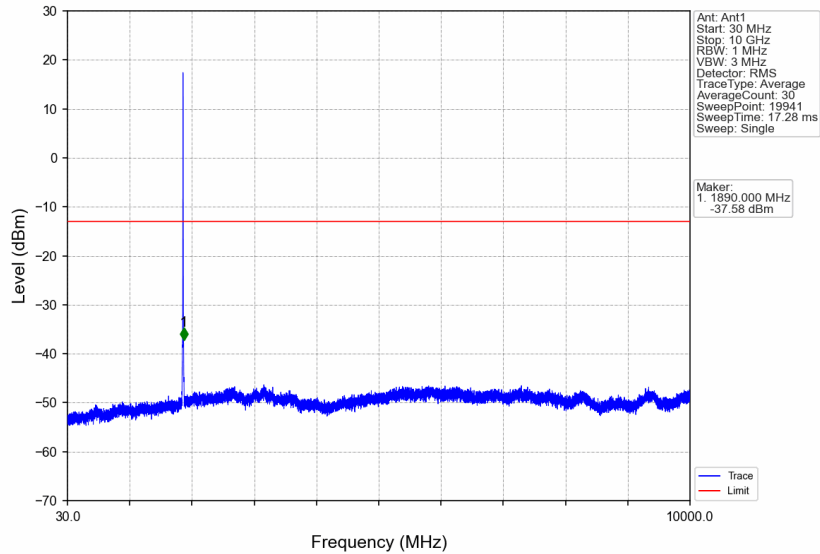
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Band II\_RMC\_LCH\_1852.4MHz\_12.2kbps RMC\_NTNV



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

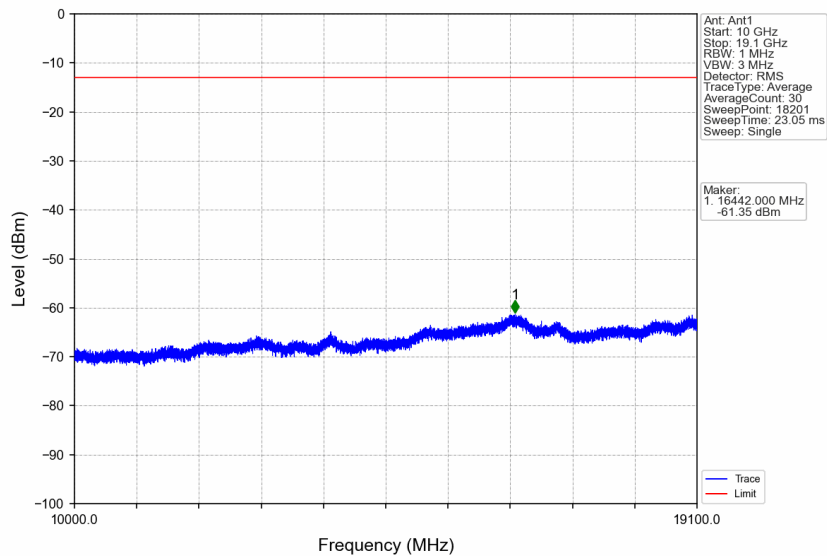


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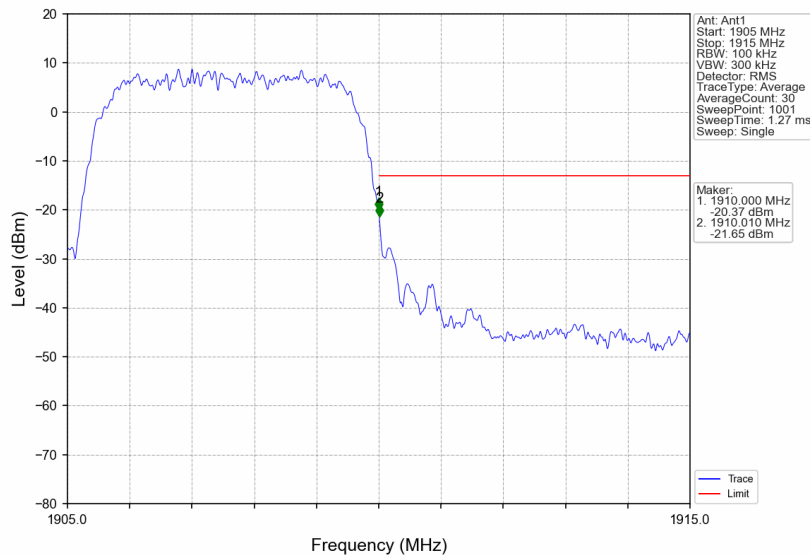
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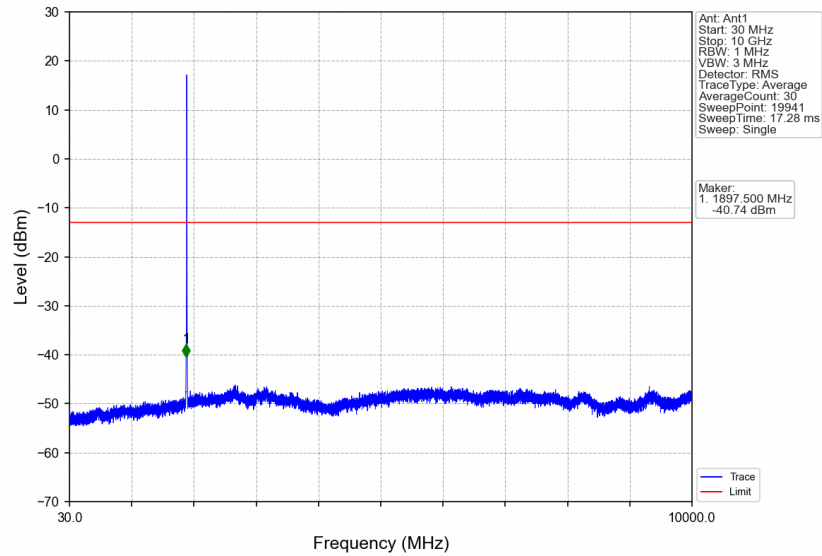
Band II\_RMC\_HCH\_1907.6MHz\_12.2kbps RMC\_NTNV



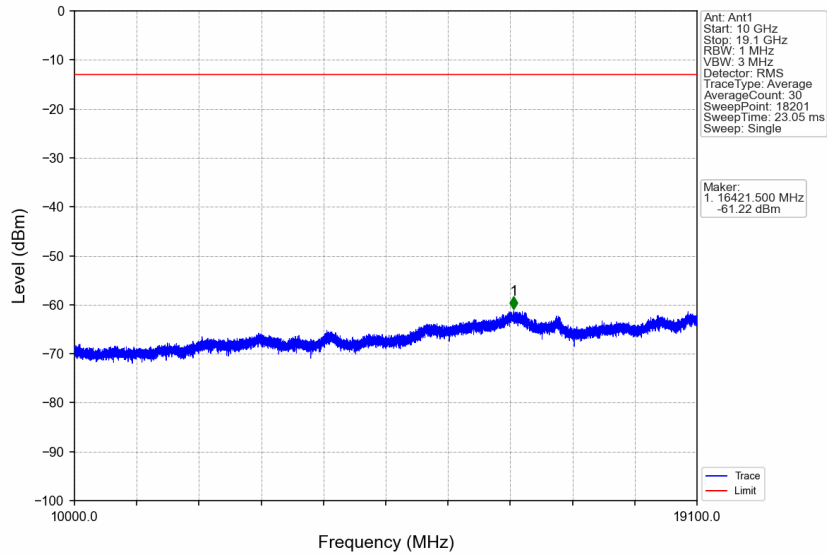
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Band II\_RMC\_HCH\_1907.6MHz\_12.2kbps RMC\_NTNV



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