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Appendix B.3

WCDMA Band II



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1. Effective (Isotropic) Radiated Power Output Data

1.1 Band II_EIRP

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	18.62	0.34	18.96	<=33.00	Pass
			1880	18.7	0.34	19.04	<=33.00	Pass
			1907.6	18.67	0.34	19.01	<=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	Limit	
RMC	1852.4	20	3.5	1.690	0.0009	/	Pass
			3.87	3.477	0.0019	/	Pass
			4.45	1.202	0.0006	/	Pass
		-30	3.87	1.344	0.0007	/	Pass
		-20	3.87	2.318	0.0013	/	Pass
		-10	3.87	0.643	0.0003	/	Pass
		0	3.87	1.266	0.0007	/	Pass
		10	3.87	0.853	0.0005	/	Pass
		30	3.87	-0.202	-0.0001	/	Pass
		40	3.87	-0.165	-0.0001	/	Pass
		50	3.87	1.778	0.0010	/	Pass
	1880	20	3.5	2.264	0.0012	/	Pass
			3.87	1.360	0.0007	/	Pass
			4.45	1.560	0.0008	/	Pass
		-30	3.87	-1.250	-0.0007	/	Pass
		-20	3.87	-2.026	-0.0011	/	Pass
		-10	3.87	4.695	0.0025	/	Pass
		0	3.87	5.549	0.0030	/	Pass
		10	3.87	1.729	0.0009	/	Pass
		30	3.87	1.252	0.0007	/	Pass
		40	3.87	0.066	0.0000	/	Pass
		50	3.87	0.815	0.0004	/	Pass
	1907.6	20	3.5	2.592	0.0014	/	Pass
			3.87	2.225	0.0012	/	Pass
			4.45	1.460	0.0008	/	Pass
		-30	3.87	0.959	0.0005	/	Pass
		-20	3.87	1.140	0.0006	/	Pass
		-10	3.87	1.171	0.0006	/	Pass
		0	3.87	3.826	0.0020	/	Pass
		10	3.87	1.678	0.0009	/	Pass
		30	3.87	0.156	0.0001	/	Pass
		40	3.87	0.469	0.0002	/	Pass
		50	3.87	0.363	0.0002	/	Pass



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3. 99% & 26dB Bandwidth

3.1 Band II_OBW

3.1.1 Test Result

Band II						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	4.177	/	Pass
			1880	4.163	/	Pass
			1907.6	4.161	/	Pass

3.2 Band II_XDB

3.2.1 Test Result

Band II						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	4.743	/	Pass
			1880	4.748	/	Pass
			1907.6	4.743	/	Pass



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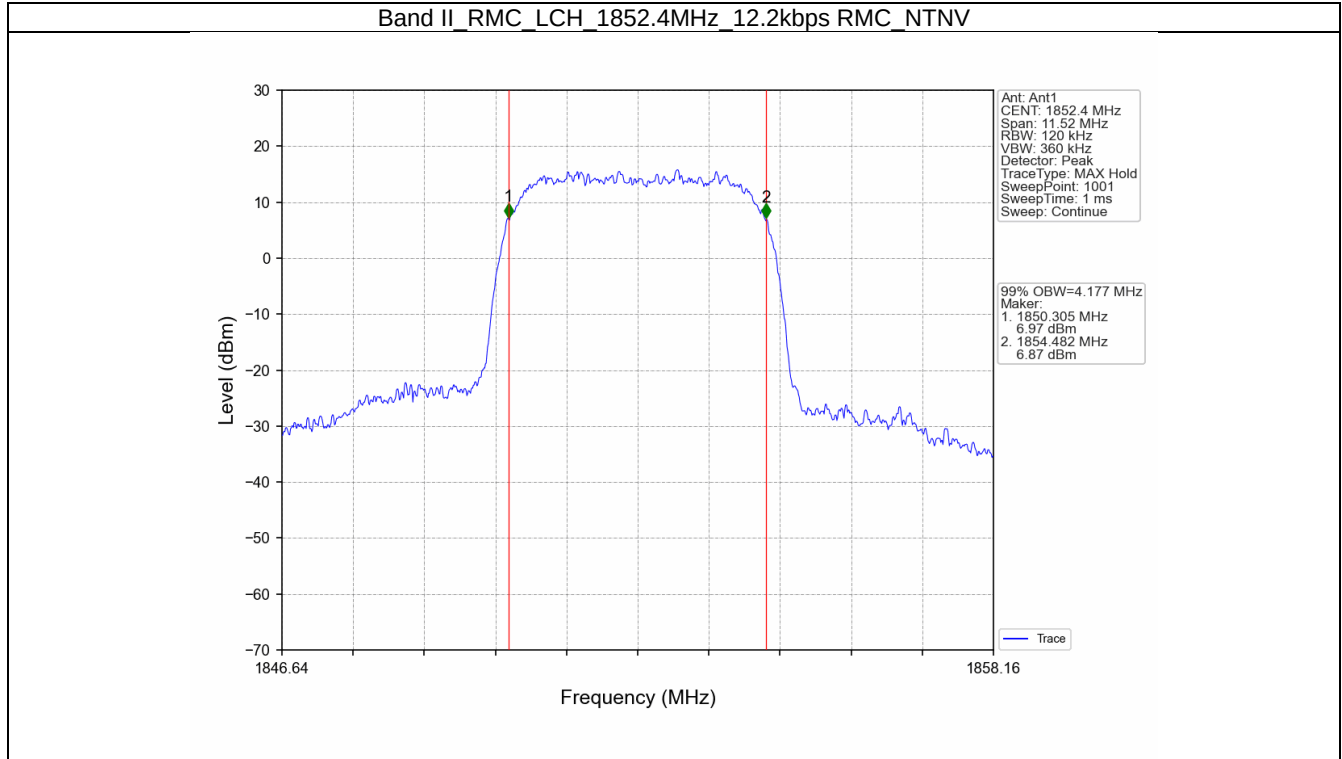
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3.1 Band II_OBW

3.1.2 Test Graph



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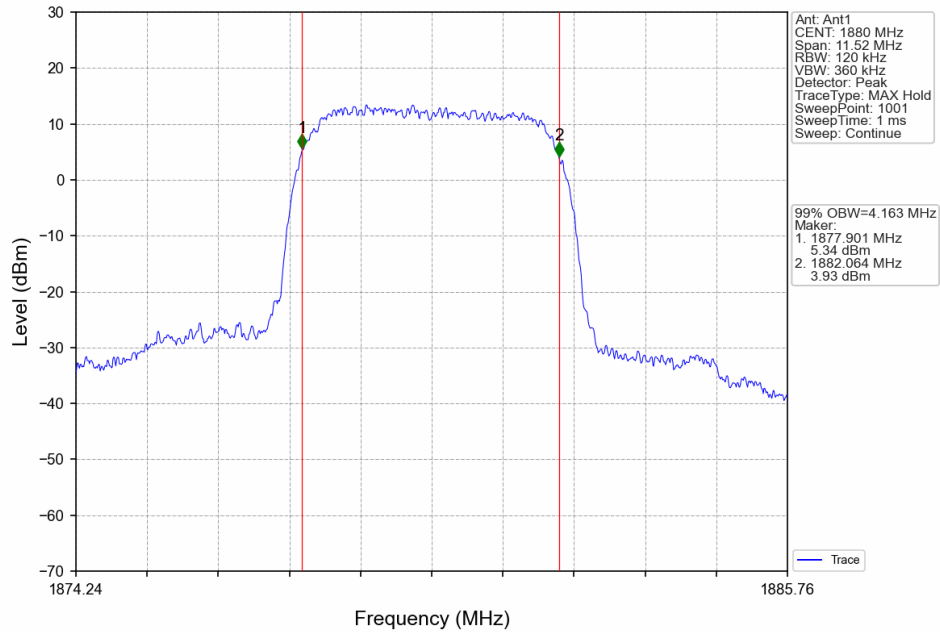
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Band II_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



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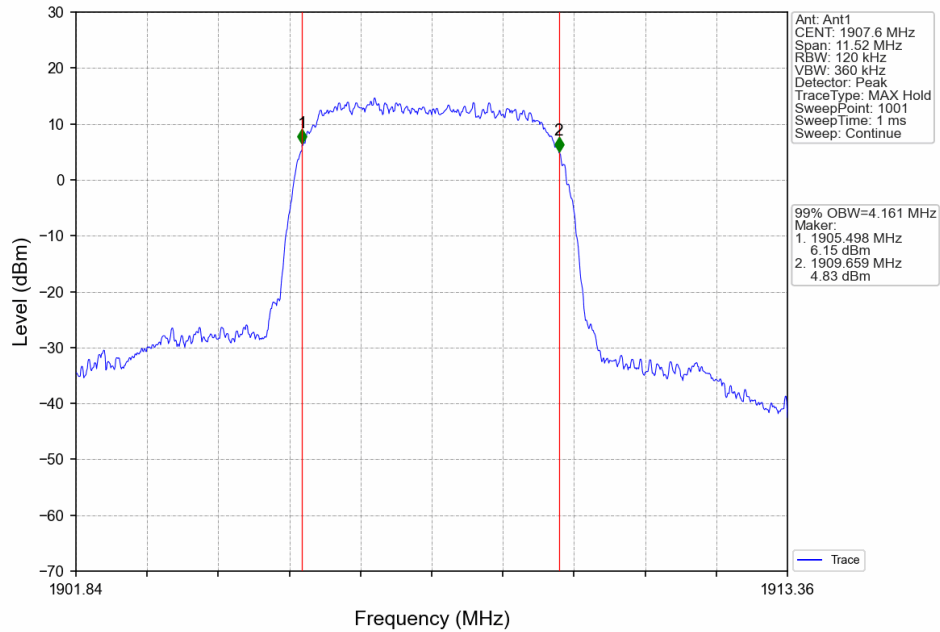
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Band II_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



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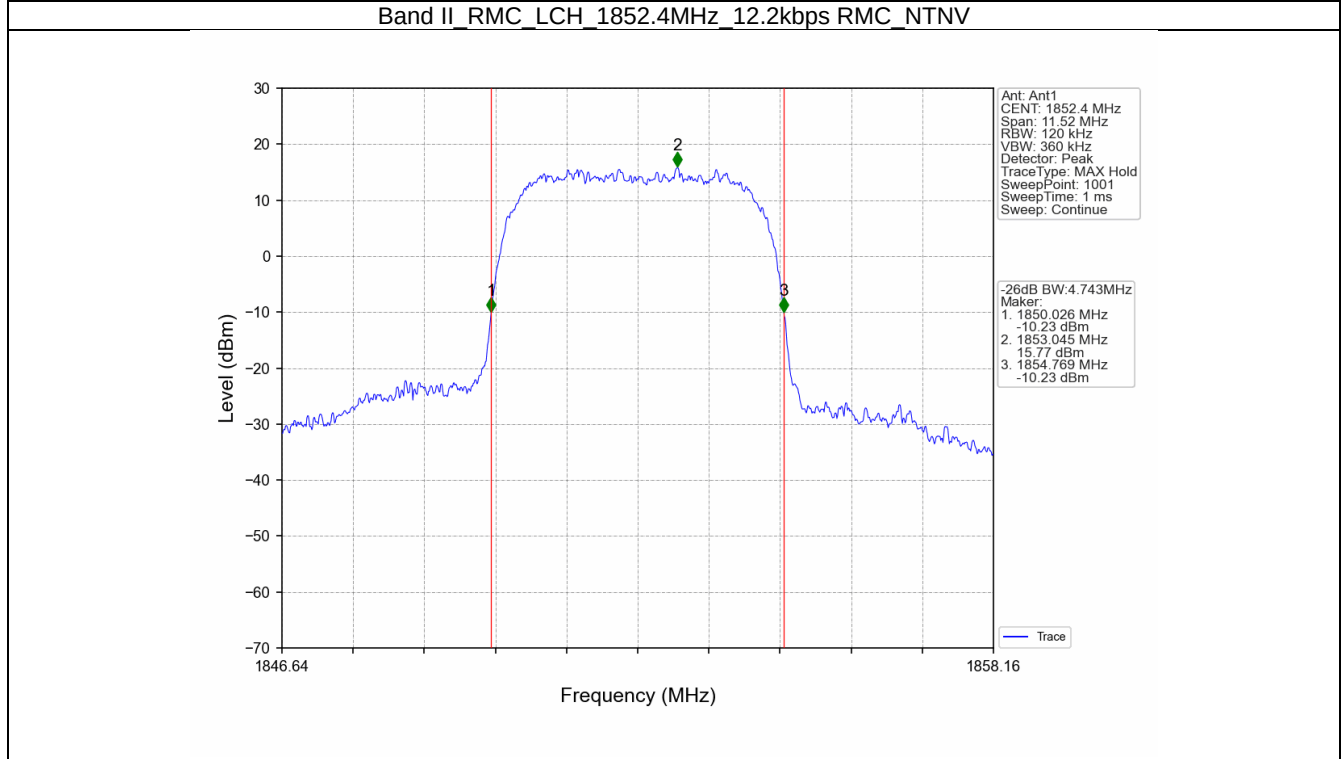
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3.2 Band II_XDB

3.2.2 Test Graph



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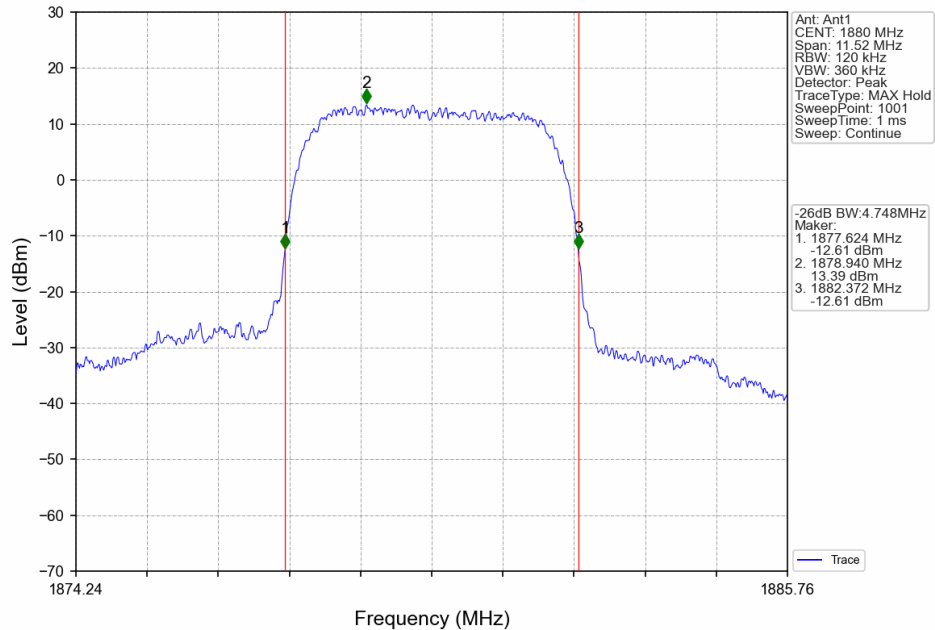
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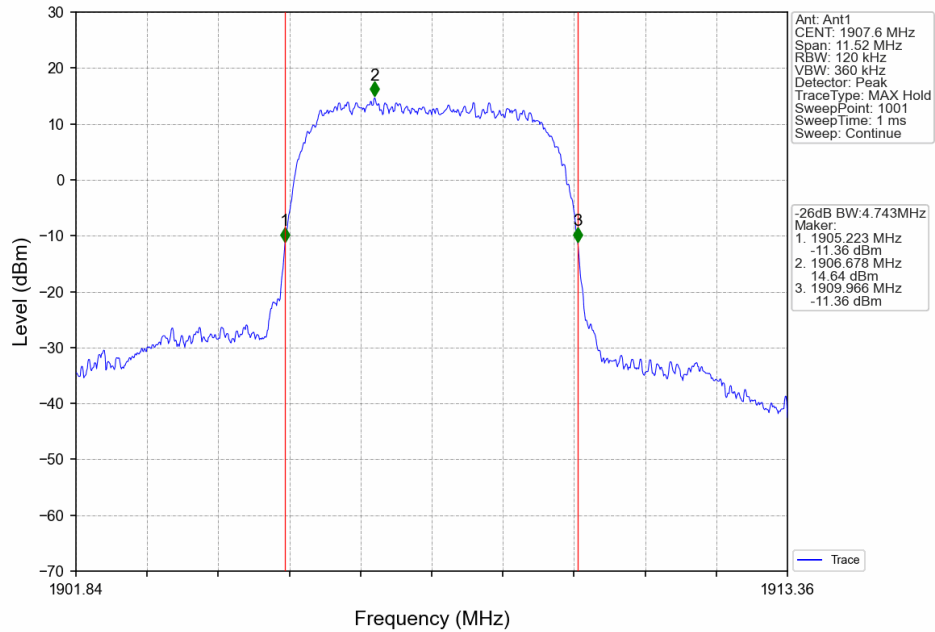
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4. Peak-Average Ratio

4.1 Band II

4.1.1 Test Result

Band II						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	2.72	<=13	Pass
			1880	2.83	<=13	Pass
			1907.6	2.90	<=13	Pass



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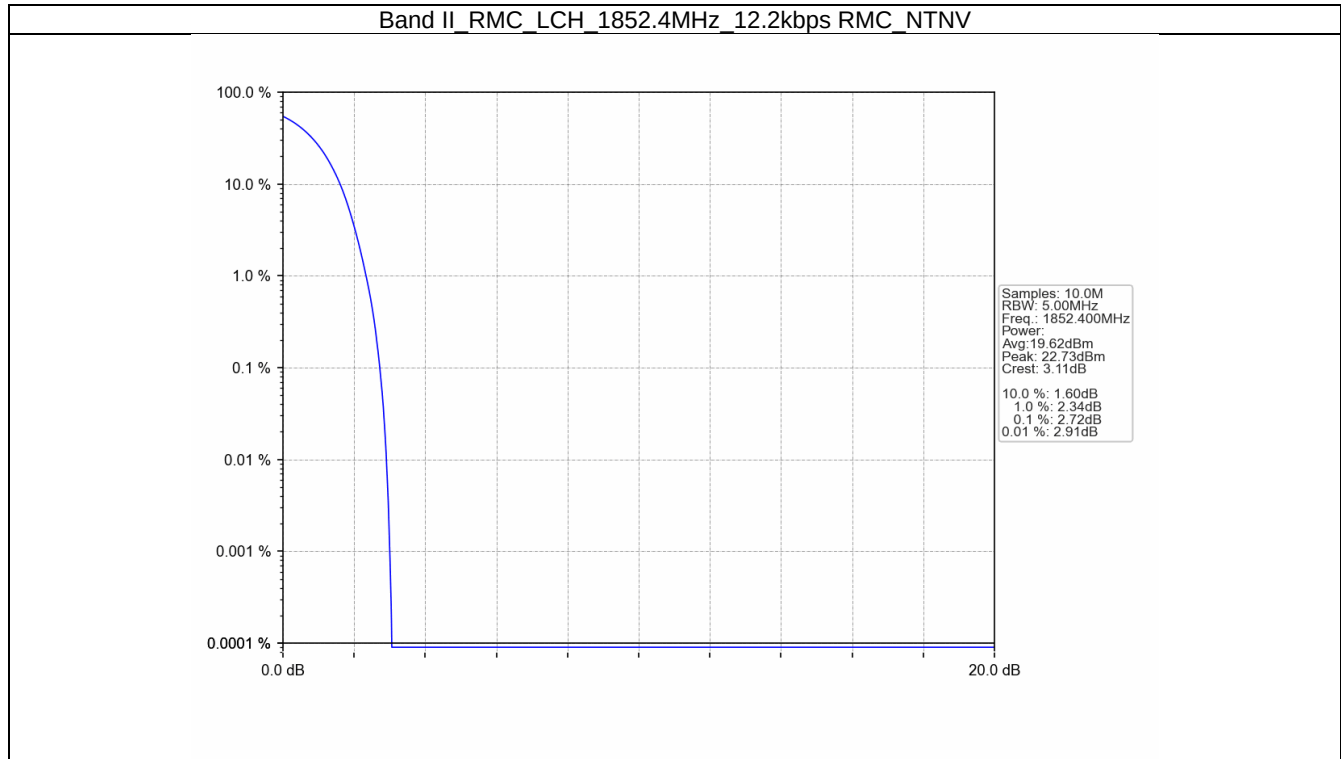
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4.1 Band II

4.1.2 Test Graph



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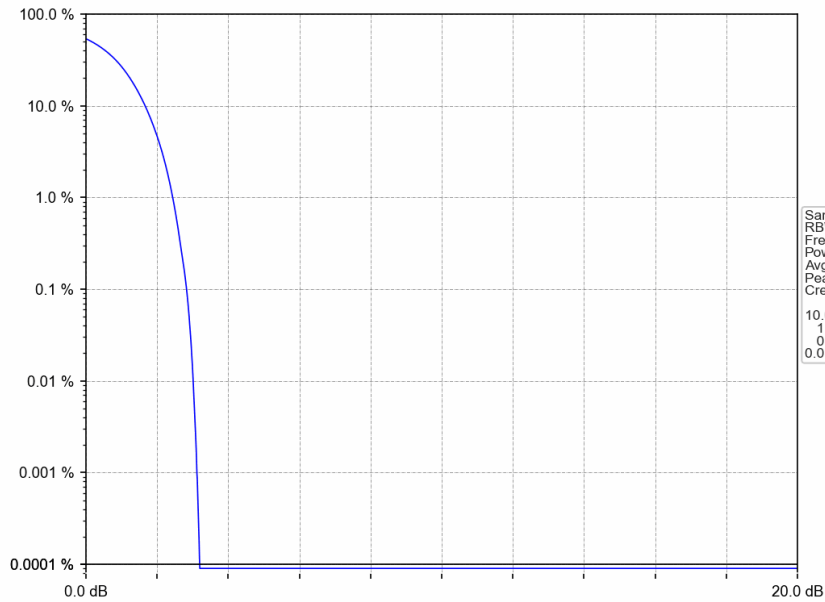
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Band II_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



Samples: 10.0M
RBW: 5.00MHz
Freq.: 1880.000MHz
Power:
Avg: 17.61dBm
Peak: 20.86dBm
Crest: 3.25dB
10.0 %: 1.66dB
1.0 %: 2.44dB
0.1 %: 2.83dB
0.01 %: 3.01dB



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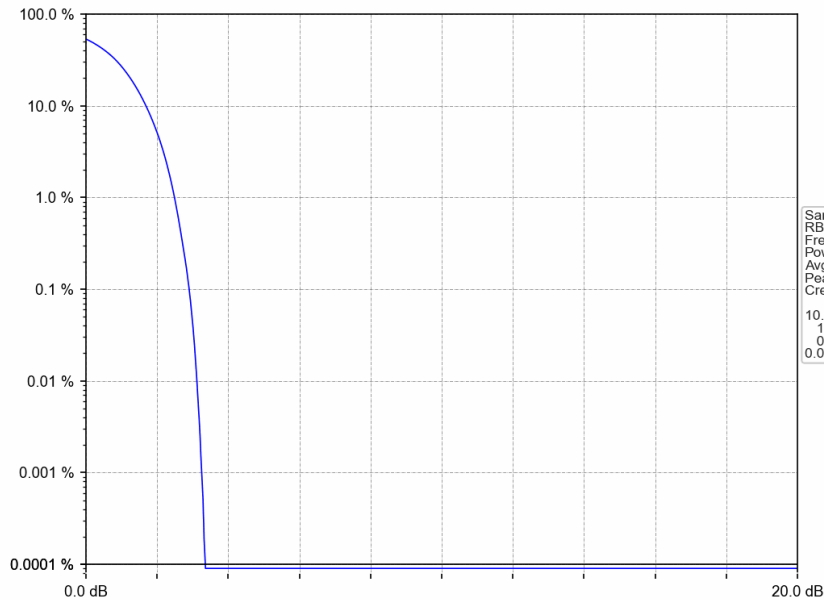
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Band II_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



Samples: 10.0M
RBW: 5.00MHz
Freq.: 1907.600MHz
Power:
Avg: 18.22dBm
Peak: 21.62dBm
Crest: 3.40dB
10.0 %: 1.69dB
1.0 %: 2.49dB
0.1 %: 2.90dB
0.01 %: 3.12dB



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5. Spurious Emission & Band Edges

5.1 Band II

5.1.1 Test Result

Band II					
ENV	Mode		Frequency (MHz)	Spurious Emission	
	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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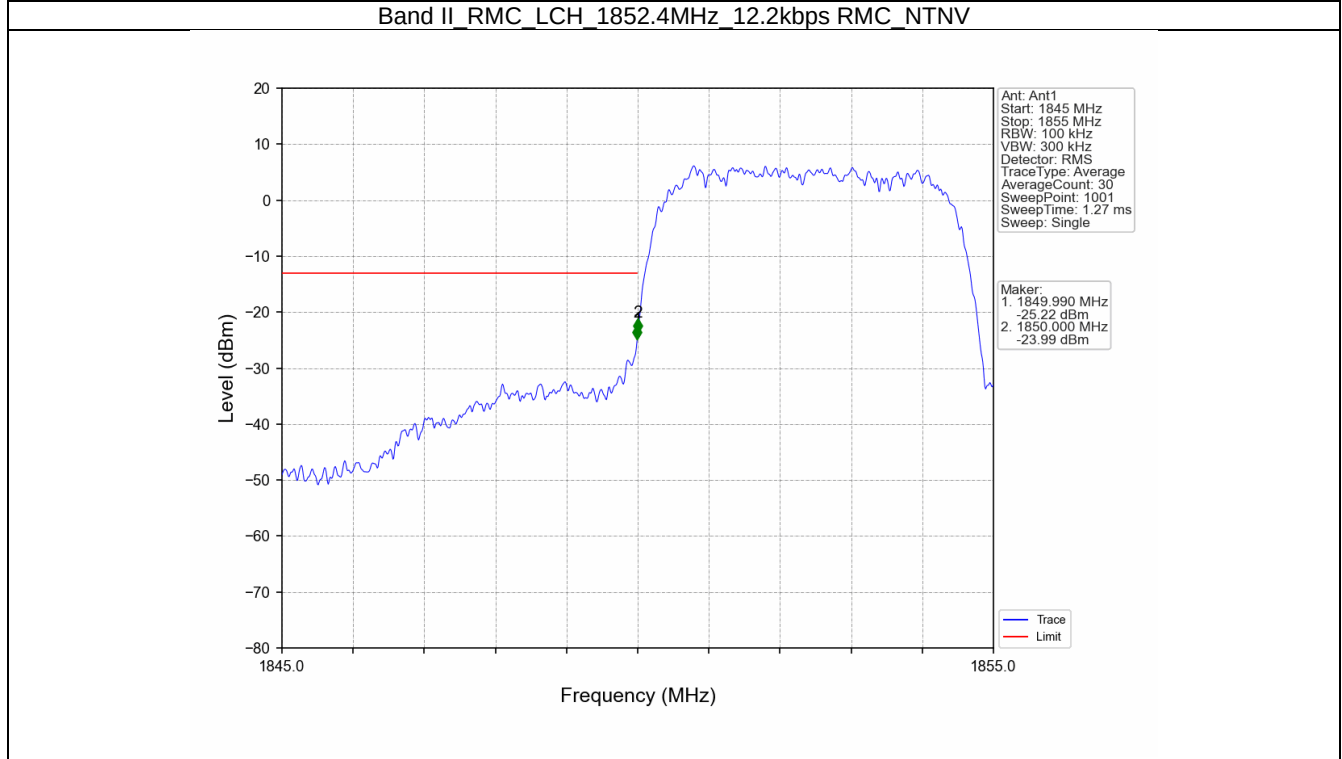
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5.1 Band II

5.1.2 Test Graph



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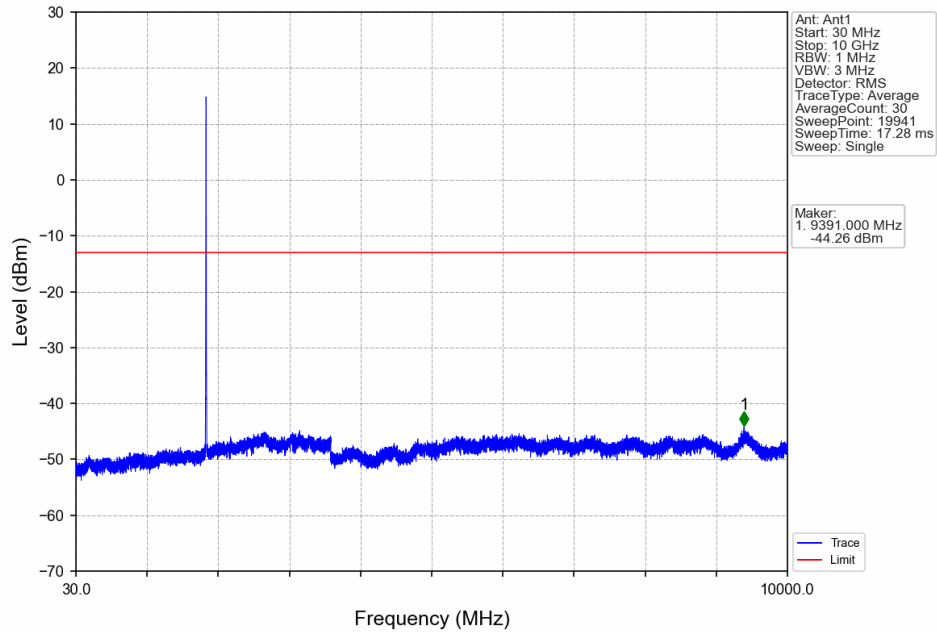
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Band II_RMC_LCH_1852.4MHz_12.2kbps RMC_NTNV



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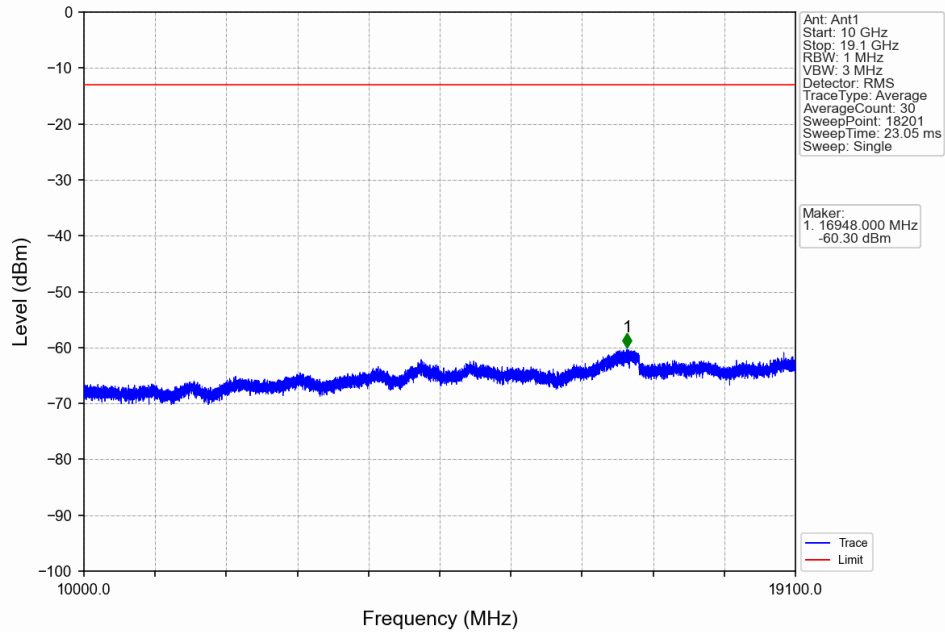
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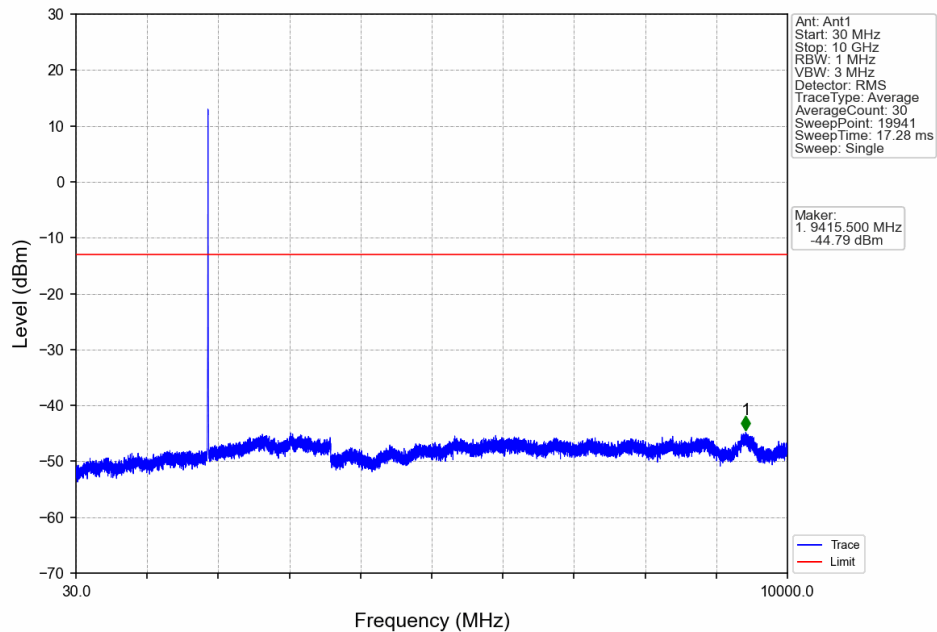
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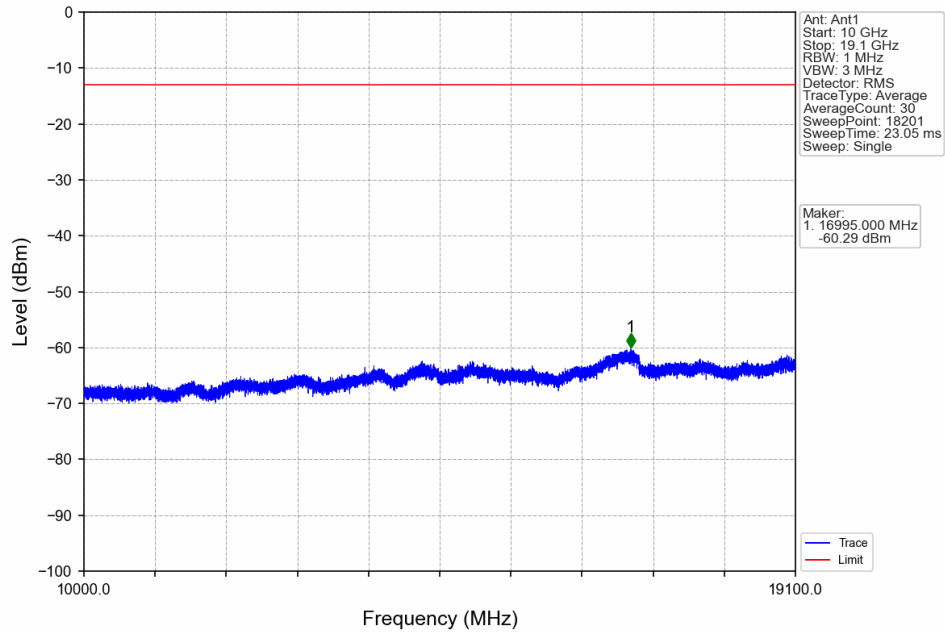
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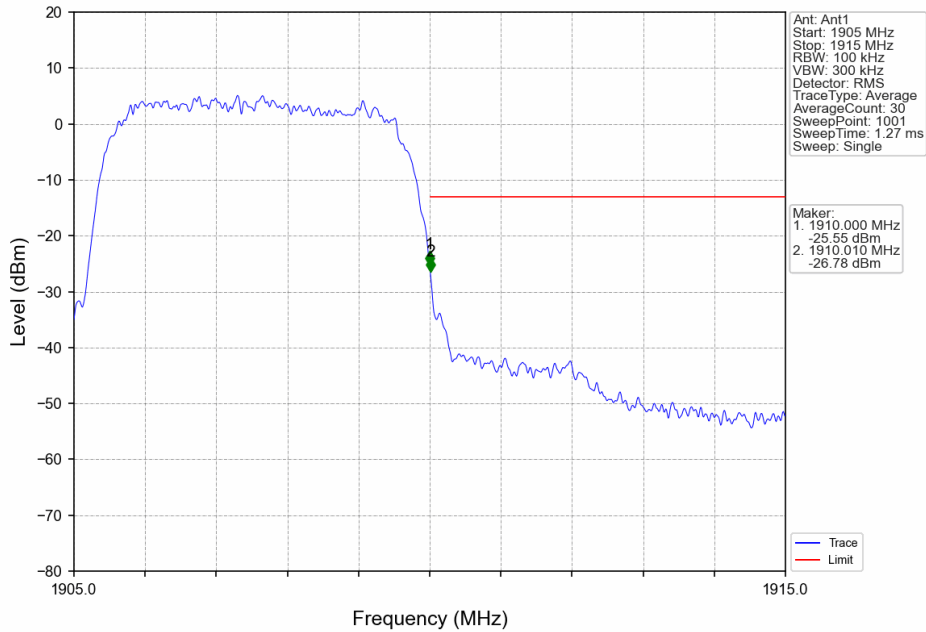
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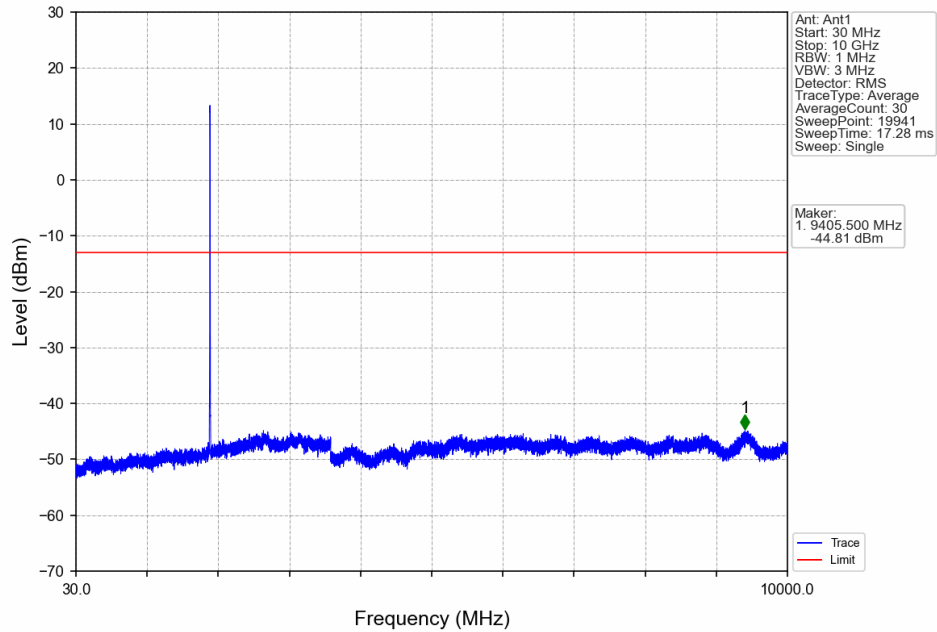
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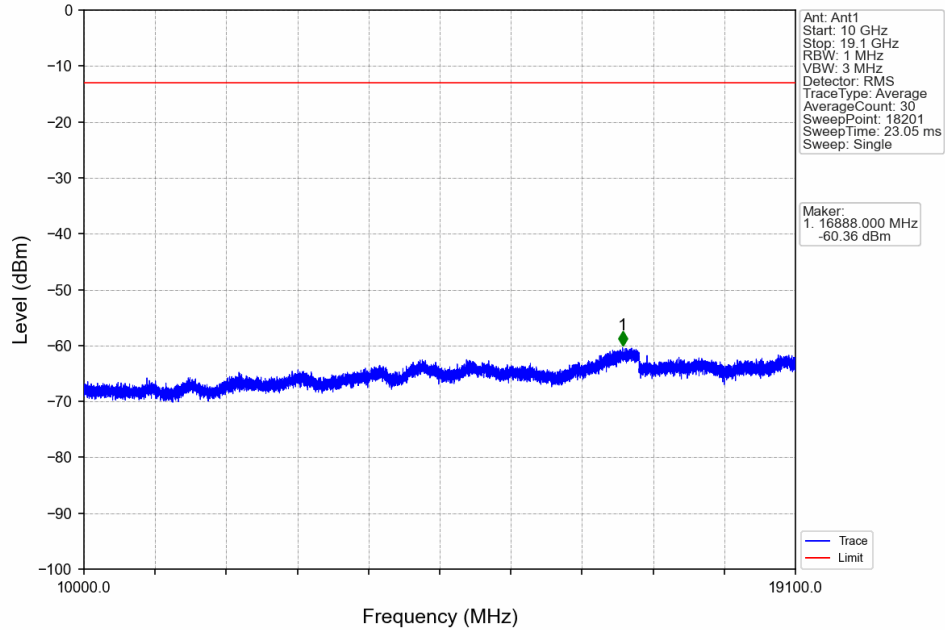
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6. Field Strength of Spurious Radiation

Test Band = WCDMA_Band II
Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3706.5353	61.93	-49.94	30.33	-52.94	-13.00	39.94	Horizontal
2	5554.6277	66.27	-45.48	33.22	-41.25	-13.00	28.25	Horizontal
3	7119.206	50.84	-43.90	36.98	-51.34	-13.00	38.34	Horizontal
4	9436.8218	49.22	-41.34	38.92	-48.46	-13.00	35.46	Horizontal
5	12276.4638	48.43	-37.91	39.65	-45.09	-13.00	32.09	Horizontal
6	17903.9952	50.15	-42.98	42.22	-45.87	-13.00	32.87	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3703.5352	59.01	-49.98	30.31	-55.92	-13.00	42.92	Vertical
2	5553.8777	63.10	-45.47	33.22	-44.41	-13.00	31.41	Vertical
3	7486.7243	51.40	-43.27	36.63	-50.50	-13.00	37.50	Vertical
4	9254.5627	49.31	-41.24	39.07	-48.12	-13.00	35.12	Vertical
5	11919.446	48.33	-38.01	39.48	-45.46	-13.00	32.46	Vertical
6	17972.2486	50.40	-43.52	42.63	-45.75	-13.00	32.75	Vertical



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Test Band = WCDMA_Band II
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3758.2879	61.93	-49.39	30.50	-52.22	-13.00	39.22	Horizontal
2	5636.3818	66.34	-45.34	33.33	-40.93	-13.00	27.93	Horizontal
3	7128.9564	51.46	-43.96	37.02	-50.74	-13.00	37.74	Horizontal
4	9023.5512	49.74	-41.75	38.75	-48.52	-13.00	35.52	Horizontal
5	12334.9667	48.45	-38.16	39.67	-45.30	-13.00	32.30	Horizontal
6	17979.749	50.32	-43.70	42.68	-45.96	-13.00	32.96	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3758.2879	58.73	-49.39	30.50	-55.42	-13.00	42.42	Vertical
2	5637.1319	63.62	-45.33	33.33	-43.64	-13.00	30.64	Vertical
3	9014.5507	50.07	-41.71	38.77	-48.13	-13.00	35.13	Vertical
4	11917.9459	48.42	-37.99	39.48	-45.35	-13.00	32.35	Vertical
5	14261.8131	49.31	-39.74	40.74	-44.95	-13.00	31.95	Vertical
6	17915.9958	50.09	-42.98	42.30	-45.85	-13.00	32.85	Vertical



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Test Band = WCDMA_ Band II
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3813.7907	62.73	-49.61	30.47	-51.67	-13.00	38.67	Horizontal
2	5718.8859	67.02	-45.19	33.65	-39.78	-13.00	26.78	Horizontal
3	8978.5489	49.94	-41.83	38.67	-48.48	-13.00	35.48	Horizontal
4	12308.7154	48.27	-37.93	39.69	-45.23	-13.00	32.23	Horizontal
5	15020.851	48.95	-38.92	39.88	-45.35	-13.00	32.35	Horizontal
6	17975.2488	50.34	-43.59	42.65	-45.86	-13.00	32.86	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3813.0407	58.02	-49.61	30.47	-56.38	-13.00	43.38	Vertical
2	5719.636	62.64	-45.21	33.66	-44.17	-13.00	31.17	Vertical
3	7478.4739	51.23	-43.33	36.64	-50.72	-13.00	37.72	Vertical
4	12301.9651	48.34	-37.88	39.70	-45.10	-13.00	32.10	Vertical
5	15019.351	49.11	-38.91	39.88	-45.18	-13.00	32.18	Vertical
6	17969.9985	50.17	-43.46	42.62	-45.93	-13.00	32.93	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---



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