



# FCC EMI TEST REPORT

**FCC ID** : GKRRMLN1T  
**Equipment** : 5G LGA Module  
**Brand Name** : COMPAL  
**Model Name** : RML-N1t  
**Marketing Name** : 5G LGA Module  
**Applicant** : Compal Electronics, Inc.  
No.581 & 581-1, Ruiguang Rd., Neihu District, Taipei,  
(114) Taiwan  
**Manufacturer** : Compal Electronics, Inc.  
No.581 & 581-1, Ruiguang Rd., Neihu District, Taipei,  
(114) Taiwan  
**Standard** : FCC 47 CFR FCC Part 15 Subpart B Class B

The product was received on Jan. 05, 2023 and testing was performed from Jan. 10, 2023 to Jan. 17, 2023. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

**Sporton International Inc. EMC & Wireless Communications Laboratory**

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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## History of this test report

Report No.	Version	Description	Issue Date
FC2N2510-01	01	Initial issue of report	Mar. 15, 2023

## Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.107	AC Conducted Emission	Pass	3.78 dB under the limit at 0.436 MHz
3.2	15.109	Radiated Emission	Pass	12.43 dB under the limit at 953.100 MHz

**Declaration of Conformity:**

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.  
It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
2. The measurement uncertainty please refer to this report "Uncertainty of Evaluation".

**Comments and Explanations:**

The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.

**Reviewed by: Keven Cheng**

**Report Producer: Doris Chen**

## 1. General Description

### 1.1. Product Feature of Equipment Under Test

LTE/5G NR and GNSS.

Product Feature	
Antenna Type	WWAN: Monopole Antenna GPS: Monopole Antenna

**Remark:** The EUT's information above is declared by manufacturer. Please refer to Comments and Explanations in report summary.

### 1.2. Modification of EUT

No modifications made to the EUT during the testing.

### 1.3. Test Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	<b>Sporton Site No.</b>
	CO05-HY, 03CH06-HY

FCC designation No.: TW1093

### 1.4. Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC 47 CFR FCC Part 15 Subpart B Class B
- ♦ ANSI C63.4-2014

**Remark:** All test items were verified and recorded according to the standards and without any deviation during the test.

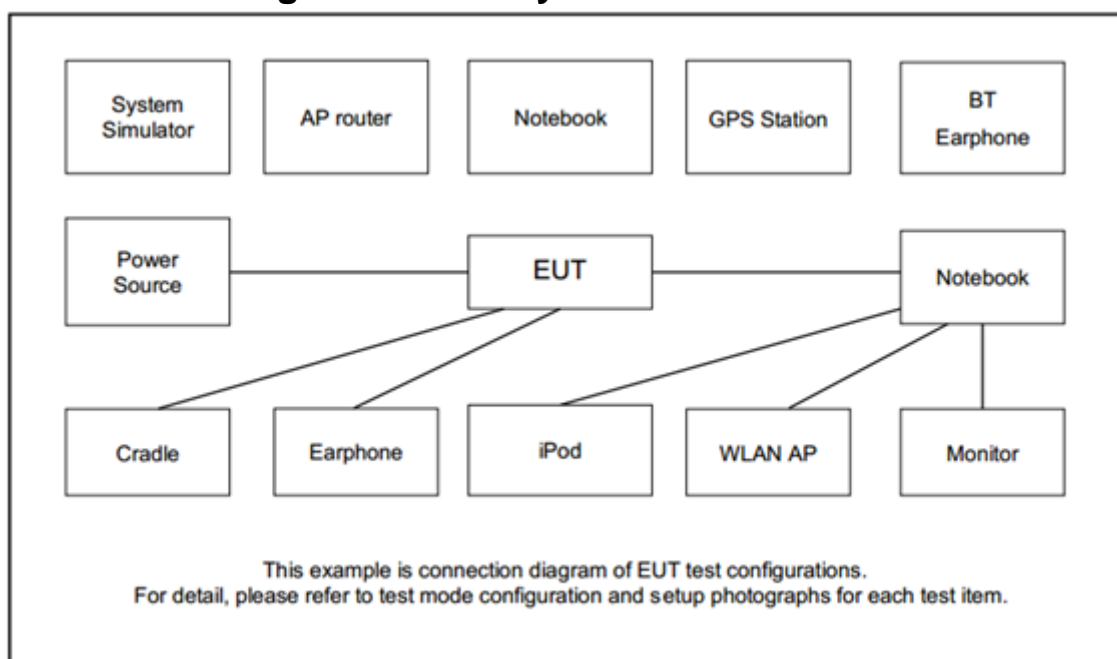
## 2. Test Configuration of Equipment Under Test

### 2.1. Test Mode

The EUT is tested along with the peripherals, operating under possible configurations in compliant with normal operation. The maximum emissions can be identified by a pre-scan carried out in different orientations of placement pursuant to ANSI C63.4-2014. Frequency range covered: Conduction Emission (150 kHz to 30 MHz), Radiation Emission (30 MHz to the 5<sup>th</sup> harmonics of the highest fundamental frequency or to 40 GHz, whichever is lower).

Test Items	Functions Enabled
<b>AC Conducted Emission</b>	Mode 1: LTE Band 5 (Middle Channel) Link + GPS Rx + Adapter Mode 2: LTE Band 12 (Middle Channel) Link + GPS Rx + Adapter Mode 3: 5G NR n71 (Middle Channel) Link + GPS Rx + Adapter
<b>Radiated Emissions</b>	Mode 1: LTE Band 5 (Middle Channel) Link + GPS Rx + Adapter Mode 2: LTE Band 12 (Middle Channel) Link + GPS Rx + Adapter Mode 3: 5G NR n71 (Middle Channel) Link + GPS Rx + Adapter
<b>Remark:</b> 1. The worst case of AC is mode 1; only the test data of this mode was reported. 2. The worst case of RE is mode 3; only the test data of this mode was reported. 3. For Radiation Emission after pre-scanned the cellular band between 30MHz ~ 960MHz (LTE Band 5/12, 5G NR n71); only the worst case for cellular band test data of this mode was reported.	

### 2.2. Connection Diagram of Test System



### 2.3. Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	5G Wireless Test Platform	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m
2.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
3.	GPS Station	Pendulum	GSG-54	N/A	N/A	Unshielded, 1.8 m
4.	WLAN AP	SMC	SMC-100	HEDWG4005ACC	N/A	Unshielded, 1.8 m
5.	Adapter	LUCENT TRANS	1A78	N/A	N/A	Unshielded, 2.0m
6.	Fixture	Compal	ZM30	N/A	N/A	N/A

### 2.4. EUT Operation Test Setup

1. The EUT link with system simulator via WWAN function.
2. Execute "GPS Test" to make the EUT receive continuous signals from GPS station.

### 3. Test Result

#### 3.1. Test of AC Conducted Emission Measurement

##### 3.1.1. Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

<Class B>

Frequency of emission (MHz)	Conducted limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency.

##### 3.1.2. Measuring Instruments

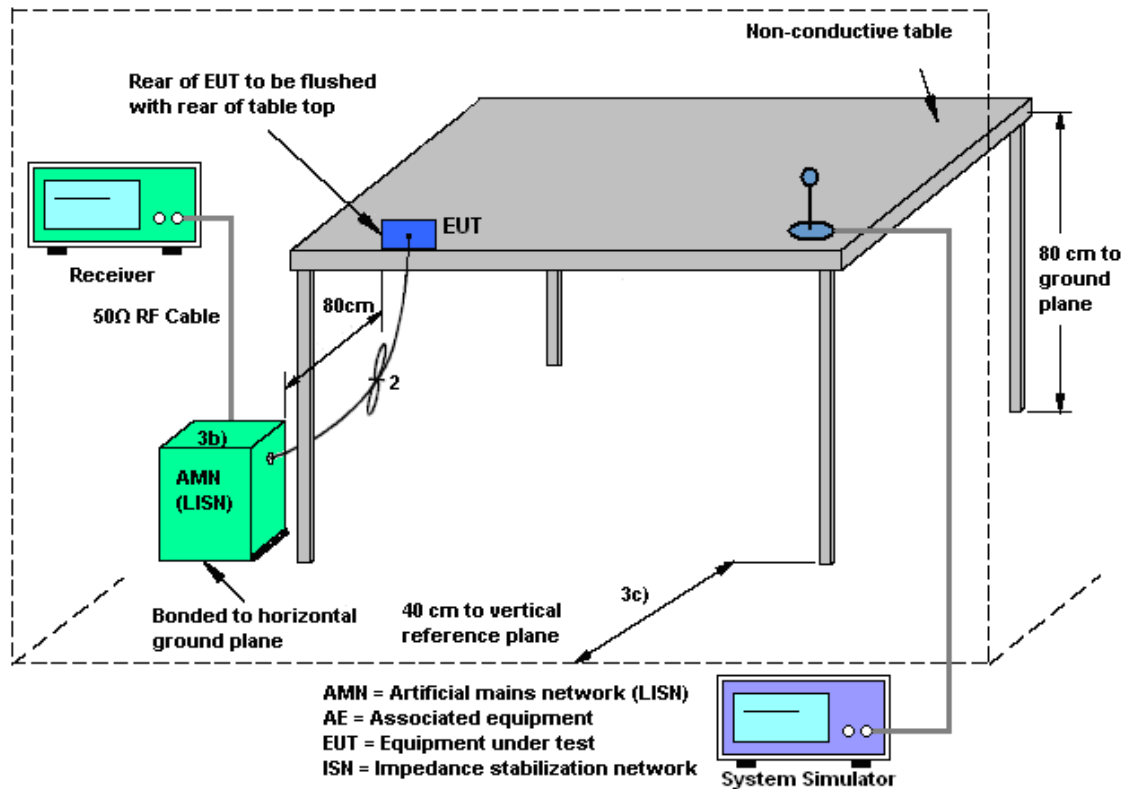
Please refer to the measuring equipment list in this test report.

##### 3.1.3. Test Procedure

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN shall be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (If Bandwidth = 9 kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.



### 3.1.4. Test Setup



### 3.1.5. Test Result of AC Conducted Emission

Please refer to Appendix A.

## 3.2. Test of Radiated Emission Measurement

### 3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

<Class B>

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

### 3.2.2. Measuring Instruments

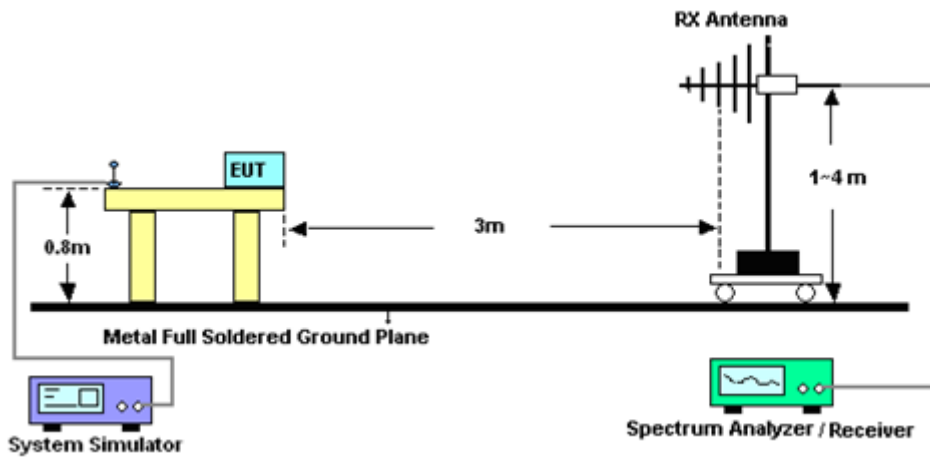
Please refer to the measuring equipment list in this test report.

### 3.2.3. Test Procedures

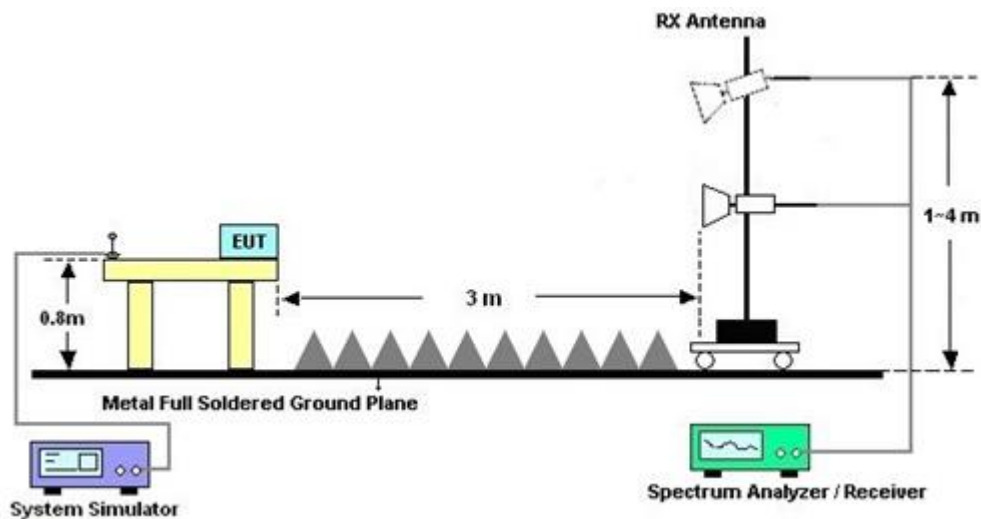
1. The EUT is placed on a turntable with 0.8 meter above ground.
2. The EUT is set 3 meters from the interference receiving antenna, which is mounted on the top of a variable height antenna tower.
3. The table is rotated 360 degrees to determine the position of the highest radiation.
4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT is arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120 kHz/VBW=300 kHz for frequency below 1 GHz; RBW=1 MHz VBW=3 MHz (Peak), RBW=1 MHz/VBW=10 Hz (Average) for frequency above 1 GHz).
7. If the emission level of the EUT in peak mode is 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.

### 3.2.4. Test Setup of Radiated Emission

For Radiated Emissions from 30 MHz to 1 GHz



For Radiated Emissions from 1GHz to 18GHz



### 3.2.5. Test Result of Radiated Emission

Please refer to Appendix B.



## 4. List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Amplifier	SONOMA	310N	186713	9kHz~1GHz	Apr. 28, 2022	Jan. 17, 2023	Apr. 27, 2023	Radiation (03CH06-HY)
Bilog Antenna	Schaffner	CBL 6111C & N-6-06	2725 & AT-N0601	30MHz~1GHz	Nov. 06, 2022	Jan. 17, 2023	Nov. 05, 2023	Radiation (03CH06-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100472	20Hz~26.5GHz	Feb. 09, 2022	Jan. 17, 2023	Feb. 08, 2023	Radiation (03CH06-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02037	1GHz~18GHz	Dec. 30, 2022	Jan. 17, 2023	Dec. 29, 2023	Radiation (03CH06-HY)
Preamplifier	Jet-Power	JPA00101800-30-10P	1601180001	1GHz~18GHz	Jul. 18, 2022	Jan. 17, 2023	Jul. 17, 2023	Radiation (03CH06-HY)
RF Cable	HUBER + SUHNER	SF102_7000m m	532299/2	30MHz to 40GHz	Jul. 04, 2022	Jan. 17, 2023	Jul. 03, 2023	Radiation (03CH06-HY)
RF Cable	HUBER + SUHNER	SF102_3000m m	532422/2	30MHz to 40GHz	Jul. 04, 2022	Jan. 17, 2023	Jul. 03, 2023	Radiation (03CH06-HY)
RF Cable	HUBER + SUHNER	SF102_2000m m	532421/2	30MHz to 40GHz	Jul. 04, 2022	Jan. 17, 2023	Jul. 03, 2023	Radiation (03CH06-HY)
RF Cable	HUBER + SUHNER	SF104	802433/4	30Mhz to 18Ghz	Aug. 18, 2022	Jan. 17, 2023	Aug. 17, 2023	Radiation (03CH06-HY)
Hygrometer	TECPEL	DTM-303B	TP210018	N/A	Oct. 27, 2022	Jan. 17, 2023	Oct. 26, 2023	Radiation (03CH06-HY)
Controller	INN-CO	EM1000	060782	Control Turn table & Ant Mast	N/A	Jan. 17, 2023	N/A	Radiation (03CH06-HY)
Antenna Mast	MF	MF-7802	MF780208212	1m~4m	N/A	Jan. 17, 2023	N/A	Radiation (03CH06-HY)
Turn Table	INN-CO	DS2000	420/650/00	0-360 degree	N/A	Jan. 17, 2023	N/A	Radiation (03CH06-HY)
Software	Audix	E3 6.2009-8-24 (k5)	N/A	N/A	N/A	Jan. 17, 2023	N/A	Radiation (03CH06-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jan. 10, 2023	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Dec. 01, 2022	Jan. 10, 2023	Nov. 30, 2023	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 17, 2022	Jan. 10, 2023	Nov. 16, 2023	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 17, 2022	Jan. 10, 2023	Nov. 16, 2023	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Jan. 10, 2023	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	00691	N/A	Aug. 01, 2022	Jan. 10, 2023	Jul. 31, 2023	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 29, 2022	Jan. 10, 2023	Dec. 28, 2023	Conduction (CO05-HY)

## 5. Uncertainty of Evaluation

### Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	3.5 dB
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### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	6.3 dB
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### Uncertainty of Radiated Emission Measurement (1000 MHz ~6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	4.6 dB
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### Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	4.5 dB
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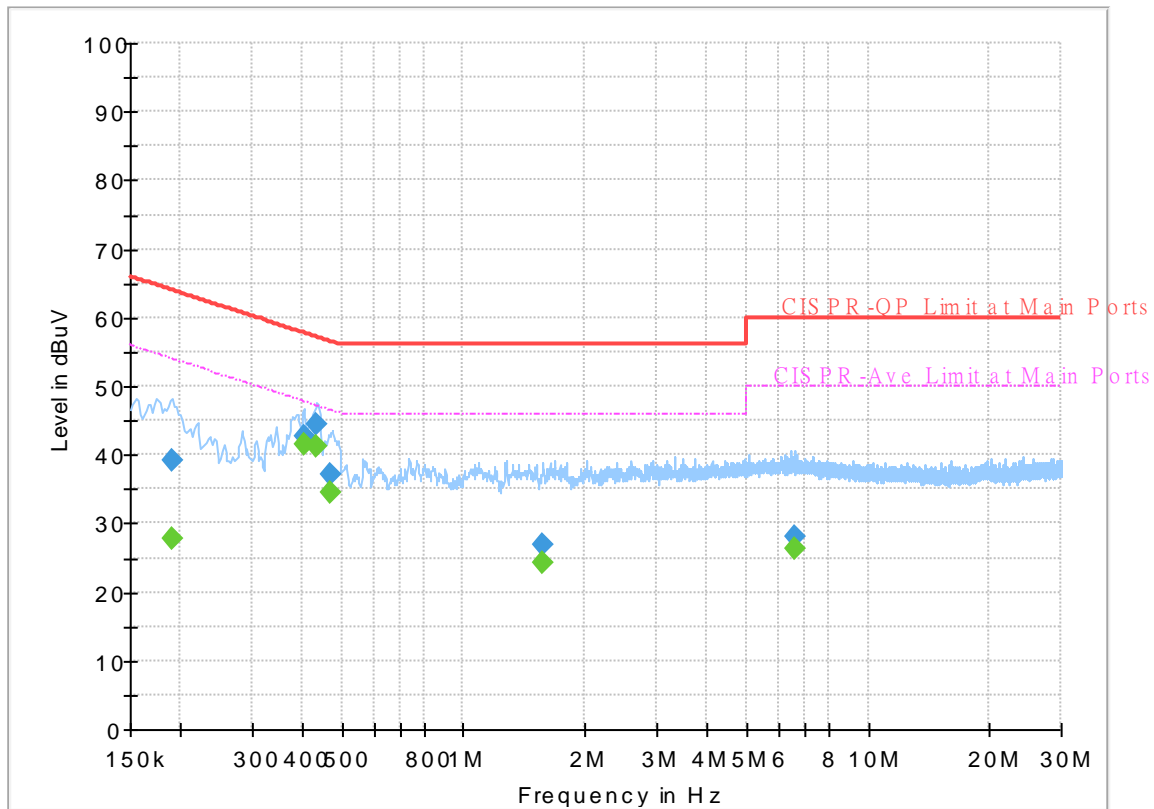
## **Appendix A. AC Conducted Emission Test Results**

<b>Test Engineer :</b>	Calvin Wang	<b>Temperature :</b>	23~26℃
		<b>Relative Humidity :</b>	45~55%

## EUT Information

Report NO : 2N2510-01  
Test Mode : Mode 1  
Test Voltage : 120Vac/60Hz  
Phase : Line

Full Spectrum



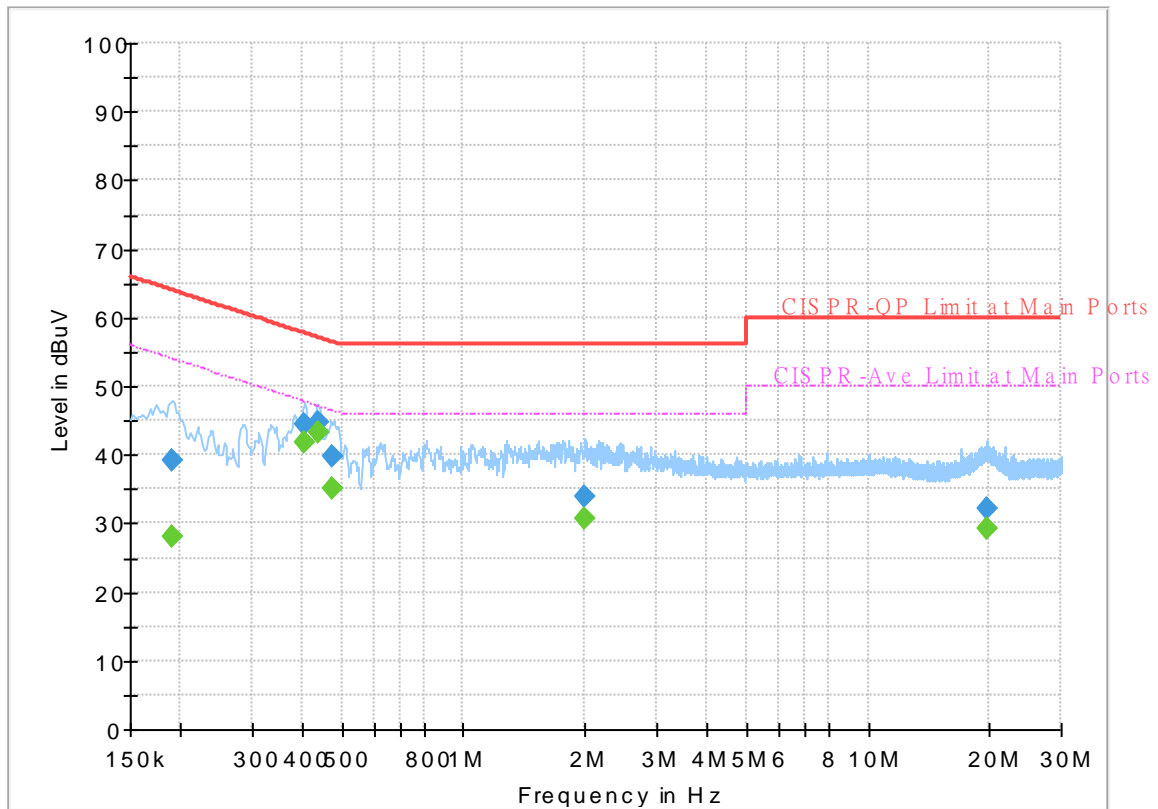
## Final\_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.190500	---	27.78	54.02	26.24	L1	OFF	19.9
0.190500	39.31	---	64.02	24.71	L1	OFF	19.9
0.402000	---	41.56	47.81	6.25	L1	OFF	19.9
0.402000	42.73	---	57.81	15.08	L1	OFF	19.9
0.433500	---	41.24	47.19	5.95	L1	OFF	19.9
0.433500	44.44	---	57.19	12.75	L1	OFF	19.9
0.469500	---	34.58	46.52	11.94	L1	OFF	19.9
0.469500	37.13	---	56.52	19.39	L1	OFF	19.9
1.574250	---	24.37	46.00	21.63	L1	OFF	19.9
1.574250	26.92	---	56.00	29.08	L1	OFF	19.9
6.614250	---	26.40	50.00	23.60	L1	OFF	20.1
6.614250	28.15	---	60.00	31.85	L1	OFF	20.1

## EUT Information

Report NO : 2N2510-01  
Test Mode : Mode 1  
Test Voltage : 120Vac/60Hz  
Phase : Neutral

Full Spectrum



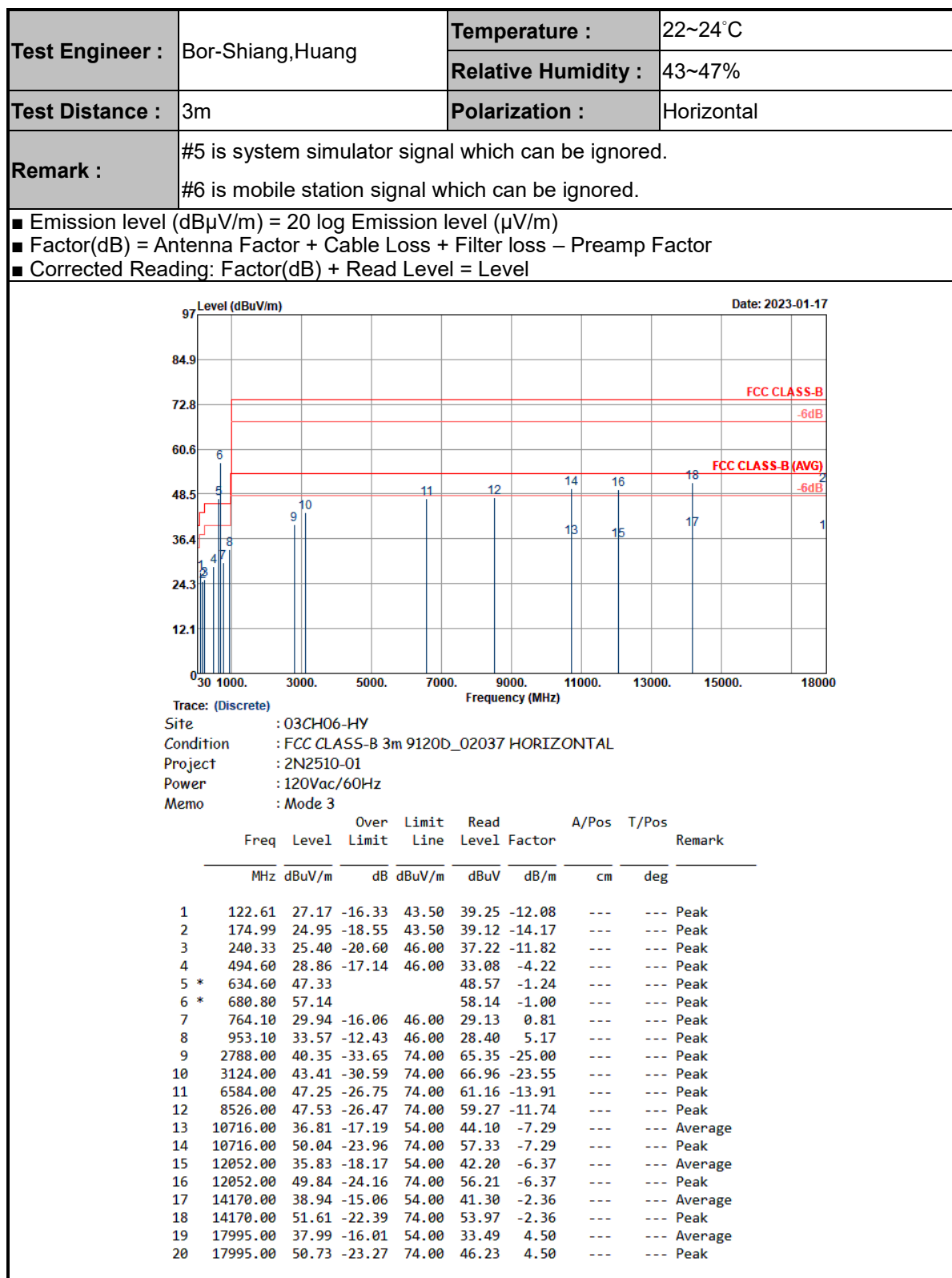
## Final\_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.190500	---	27.96	54.02	26.06	N	OFF	19.9
0.190500	39.20	---	64.02	24.82	N	OFF	19.9
0.404250	---	41.93	47.77	5.84	N	OFF	19.9
0.404250	44.53	---	57.77	13.24	N	OFF	19.9
0.435750	---	43.36	47.14	3.78	N	OFF	19.9
0.435750	44.71	---	57.14	12.43	N	OFF	19.9
0.474000	---	35.13	46.44	11.31	N	OFF	19.9
0.474000	39.88	---	56.44	16.56	N	OFF	19.9
2.001750	---	30.61	46.00	15.39	N	OFF	19.9
2.001750	33.81	---	56.00	22.19	N	OFF	19.9
19.684500	---	29.10	50.00	20.90	N	OFF	20.6
19.684500	32.13	---	60.00	27.87	N	OFF	20.6





## Appendix B. Radiated Emission Test Result





Test Engineer :	Bor-Shiang,Huang	Temperature :	22~24°C																																																																																																																																																																																																																												
		Relative Humidity :	43~47%																																																																																																																																																																																																																												
Test Distance :	3m	Polarization :	Vertical																																																																																																																																																																																																																												
Remark :	#5 is system simulator signal which can be ignored. #6 is mobile station signal which can be ignored.																																																																																																																																																																																																																														
■ Emission level (dBμV/m) = 20 log Emission level (μV/m) ■ Factor(dB) = Antenna Factor + Cable Loss + Filter loss – Preamp Factor ■ Corrected Reading: Factor(dB) + Read Level = Level																																																																																																																																																																																																																															
<div><div><div>Level (dBuV/m)</div><div><div>Date: 2023-01-17</div></div></div><div>Trace: (Discrete)</div><div>Site : 03CH06-HY Condition : FCC CLASS-B 3m 9120D_02037 VERTICAL Project : 2N2510-01 Power : 120Vac/60Hz Memo : Mode 3</div><table><tr><th></th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>Read</th><th>Factor</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>Limit</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>34.86</td><td>24.99</td><td>-15.01</td><td>40.00</td><td>33.78</td><td>-8.79</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>119.91</td><td>28.65</td><td>-14.85</td><td>43.50</td><td>40.77</td><td>-12.12</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>142.32</td><td>28.16</td><td>-15.34</td><td>43.50</td><td>40.33</td><td>-12.17</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>4</td><td>560.40</td><td>27.16</td><td>-18.84</td><td>46.00</td><td>28.88</td><td>-1.72</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>5 *</td><td>634.60</td><td>49.01</td><td></td><td></td><td>50.25</td><td>-1.24</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>6 *</td><td>680.80</td><td>56.05</td><td></td><td></td><td>57.05</td><td>-1.00</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>7</td><td>760.60</td><td>29.56</td><td>-16.44</td><td>46.00</td><td>28.76</td><td>0.80</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>8</td><td>939.10</td><td>32.61</td><td>-13.39</td><td>46.00</td><td>27.77</td><td>4.84</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>9</td><td>2790.00</td><td>39.38</td><td>-34.62</td><td>74.00</td><td>64.37</td><td>-24.99</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>10</td><td>3124.00</td><td>46.34</td><td>-27.66</td><td>74.00</td><td>69.89</td><td>-23.55</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>11</td><td>6584.00</td><td>46.61</td><td>-27.39</td><td>74.00</td><td>60.52</td><td>-13.91</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>12</td><td>7976.00</td><td>47.18</td><td>-26.82</td><td>74.00</td><td>59.49</td><td>-12.31</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>13</td><td>9748.00</td><td>39.64</td><td>-14.36</td><td>54.00</td><td>49.40</td><td>-9.76</td><td>---</td><td>---</td><td>Average</td></tr><tr><td>14</td><td>9748.00</td><td>51.96</td><td>-22.04</td><td>74.00</td><td>61.72</td><td>-9.76</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>15</td><td>12500.00</td><td>43.58</td><td>-10.42</td><td>54.00</td><td>49.30</td><td>-5.72</td><td>---</td><td>---</td><td>Average</td></tr><tr><td>16</td><td>12500.00</td><td>51.59</td><td>-22.41</td><td>74.00</td><td>57.31</td><td>-5.72</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>17</td><td>14050.00</td><td>39.81</td><td>-14.19</td><td>54.00</td><td>42.50</td><td>-2.69</td><td>---</td><td>---</td><td>Average</td></tr><tr><td>18</td><td>14050.00</td><td>50.75</td><td>-23.25</td><td>74.00</td><td>53.44</td><td>-2.69</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>19</td><td>17980.00</td><td>37.85</td><td>-16.15</td><td>54.00</td><td>33.50</td><td>4.35</td><td>---</td><td>---</td><td>Average</td></tr><tr><td>20</td><td>17980.00</td><td>50.76</td><td>-23.24</td><td>74.00</td><td>46.41</td><td>4.35</td><td>---</td><td>---</td><td>Peak</td></tr></table></div>					Freq	Level	Over	Limit	Read	Factor	A/Pos	T/Pos	Remark		MHz	dBuV/m	Limit	dBuV/m	dBuV	dB/m	cm	deg		1	34.86	24.99	-15.01	40.00	33.78	-8.79	---	---	Peak	2	119.91	28.65	-14.85	43.50	40.77	-12.12	---	---	Peak	3	142.32	28.16	-15.34	43.50	40.33	-12.17	---	---	Peak	4	560.40	27.16	-18.84	46.00	28.88	-1.72	---	---	Peak	5 *	634.60	49.01			50.25	-1.24	---	---	Peak	6 *	680.80	56.05			57.05	-1.00	---	---	Peak	7	760.60	29.56	-16.44	46.00	28.76	0.80	---	---	Peak	8	939.10	32.61	-13.39	46.00	27.77	4.84	---	---	Peak	9	2790.00	39.38	-34.62	74.00	64.37	-24.99	---	---	Peak	10	3124.00	46.34	-27.66	74.00	69.89	-23.55	---	---	Peak	11	6584.00	46.61	-27.39	74.00	60.52	-13.91	---	---	Peak	12	7976.00	47.18	-26.82	74.00	59.49	-12.31	---	---	Peak	13	9748.00	39.64	-14.36	54.00	49.40	-9.76	---	---	Average	14	9748.00	51.96	-22.04	74.00	61.72	-9.76	---	---	Peak	15	12500.00	43.58	-10.42	54.00	49.30	-5.72	---	---	Average	16	12500.00	51.59	-22.41	74.00	57.31	-5.72	---	---	Peak	17	14050.00	39.81	-14.19	54.00	42.50	-2.69	---	---	Average	18	14050.00	50.75	-23.25	74.00	53.44	-2.69	---	---	Peak	19	17980.00	37.85	-16.15	54.00	33.50	4.35	---	---	Average	20	17980.00	50.76	-23.24	74.00	46.41	4.35	---	---	Peak
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