

Report No.: XEWM2303000130RG05

Rev.: 01

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# TEST REPORT

Application No.:	XEWM2303000130RG
Applicant:	KonnectONE Inc.
Address of Applicant:	40 Lake Bellevue, Suite 340, Bellevue, WA 98005
Manufacturer:	KonnectONE Inc.
Address of Manufacturer:	40 Lake Bellevue, Suite 340, Bellevue, WA 98005
EUT Description:	Moxee T2310
Model No.:	T2310
Trade Mark:	Moxee
FCC ID:	2APQU-T2310
Standard(s):	FCC 47 CFR Part 15, Subpart B
Date of Receipt:	2023/04/10
Date of Test:	2023/04/21 to 2023/05/01
Date of Issue:	2023/05/09
Test Result:	Pass*

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Peter Tan  
Regulatory Technical Manager



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**Revision Record**

Version	Chapter	Date	Modifier	Remark
01		2023/05/09		Original

Prepared By	 (Leah Chen) / Test Engineer
Checked By	 (Andy Yao) / Reviewer

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**Test Summary**

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	FCC 47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (30MHz-1GHz)	FCC 47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (above 1GHz)	FCC 47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass

Internal Source	Upper Frequency
Below 1.705MHz	30MHz
1.705MHz to 108MHz	1GHz
108MHz to 500MHz	2GHz
500MHz to 1GHz	5GHz
Above 1GHz	5th harmonic of the highest frequency or 40GHz, whichever is lower

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## 1 General Information

EUT Description:	Moxee T2310		
Model No.:	T2310		
Trade Mark:	Moxee		
Hardware Version:	V1.0		
Software Version:	Moxee_T2310_13.0_06		
IMEI:	350119040005898		
Frequency Bands:	Band	Tx (MHz)	Rx (MHz)
	GSM850	824~849	869~894
	GSM1900	1850~1910	1930~1990
	WCDMA Band II	1850~1910	1930~1990
	WCDMA Band IV	1710~1755	2110~2155
	WCDMA Band V	824~849	869~894
	LTE Band 2	1850~1910	1930~1990
	LTE Band 4	1710~1755	2110~2155
	LTE Band 5	824~849	869~894
	LTE Band 12	699~716	729~746
	LTE Band 17	704~716	734~746
	LTE Band 25	1850~1915	1930~1995
	LTE Band 26 (814 to 824 MHz)	814~824	859~869
	LTE Band 26 (824 to 849 MHz)	824~849	869~894
	LTE Band 66	1710~1780	2110~2200
	LTE Band 71	663~698	617~652
	Wi-Fi 2.4G	2412~2462	2412~2462
	Bluetooth	2402~2480	2402~2480
	Wi-Fi 5G	5150~5850	5150~5850
	FM	N/A	88~108
	GNSS (GPS L1 C/A)	N/A	1559~1610
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**Accessory:**

Adapter No.	Model No.	Manufacturer
1	TN-050200U3	Guangdong Beicom Electronics Co., Ltd.

Battery No.	Model No.	Manufacturer
1	2988128	SHENZHEN UTILITY ENERGY CO., LTD.

USB Cable No.	Model No.	Manufacturer
1	T365-011B-1	Shenzhen Yihuaxing Electronics Co. Ltd.

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## 1.1 Description of Support Units

Description	Manufacturer	Model No.	Inventory No.
Router	Smavwave Technology Co.,Ltd	SRT 421	SUWI-04-34-01
Computer	Lenovo	T14	SUWI-03-33-04
Mouse	Lenovo	3D optical Mouse	SUWI-03-33-05

## 1.2 Test Location

All tests were performed at:

Company:	SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.
Address:	1/F, Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi'an, Shaanxi China
Post code:	710086
Test engineer:	Ken Liu

## 1.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

### •A2LA (Certificate No. 4854.01)

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

### • Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0095.

IC#: 25613.

### • FCC –Designation Number: CN1337

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized as an accredited testing laboratory.

Designation Number: CN1337.

Test Firm Registration Number: 917410

## 1.4 Deviation from Standards

None

## 1.5 Abnormalities from Standard Conditions

None

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## 2 Emission Test Results

### 2.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement:	47 CFR Part 15, Subpart B		
Test Method:	ANSI C63.4:2014		
Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Frequency Range (MHz)		Limit(dB $\mu$ V)
			Quasi-peak average
	0.15M-0.5MHz	66 ~ 56*	56 ~ 46*
	0.5M-5MHz	56	46
	5M-30MHz	60	50
*Decreases with the logarithm of the frequency			
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz			

#### 2.1.1 E.U.T. Operation

##### Operating Environment:

Temperature:	22~25°C
Humidity:	40~60%RH
Atmospheric Pressure:	96.0~98.0kPa
Pretest these modes to find the worst case:	a: adapter+USB Cable+BT+5G WLAN +Camera(Front)+LTE Band 12 Idle b: adapter+USB Cable+BT+2.4G WLAN +Camera(Rear)+ WCDMA Band V Idle c: adapter+USB Cable+BT+5G WLAN +MP3+GSM 850 Idle d: adapter+USB Cable+BT+2.4G WLAN +MP4+LTE Band 5 Idle e: adapter+USB Cable+BT+2.4G WLAN +FM+LTE Band 17 Idle f: adapter+USB Cable+BT+5G WLAN +GPS RX+LTE Band 71 Idle g: adapter+USB Cable+BT+2.4G WLAN +FM+LTE Band 26 Idle h: Transfer data between PC and EUT+USB Cable i: Transfer data between EUT and PC+USB Cable j: Transfer data between PC and SD+USB Cable k: Transfer data between SD and PC+USB Cable
The worst case for final test:	f: adapter+USB Cable+BT+5G WLAN +GPS RX+LTE Band 71 Idle j: Transfer data between PC and SD+USB Cable

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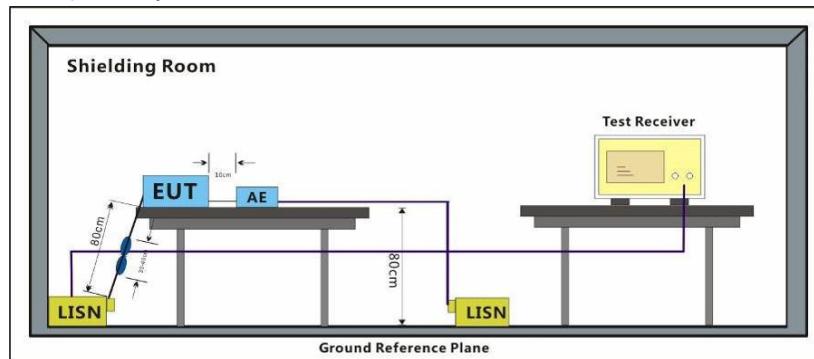
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### 2.1.2 Test Setup Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was 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 should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.



### 2.1.3 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

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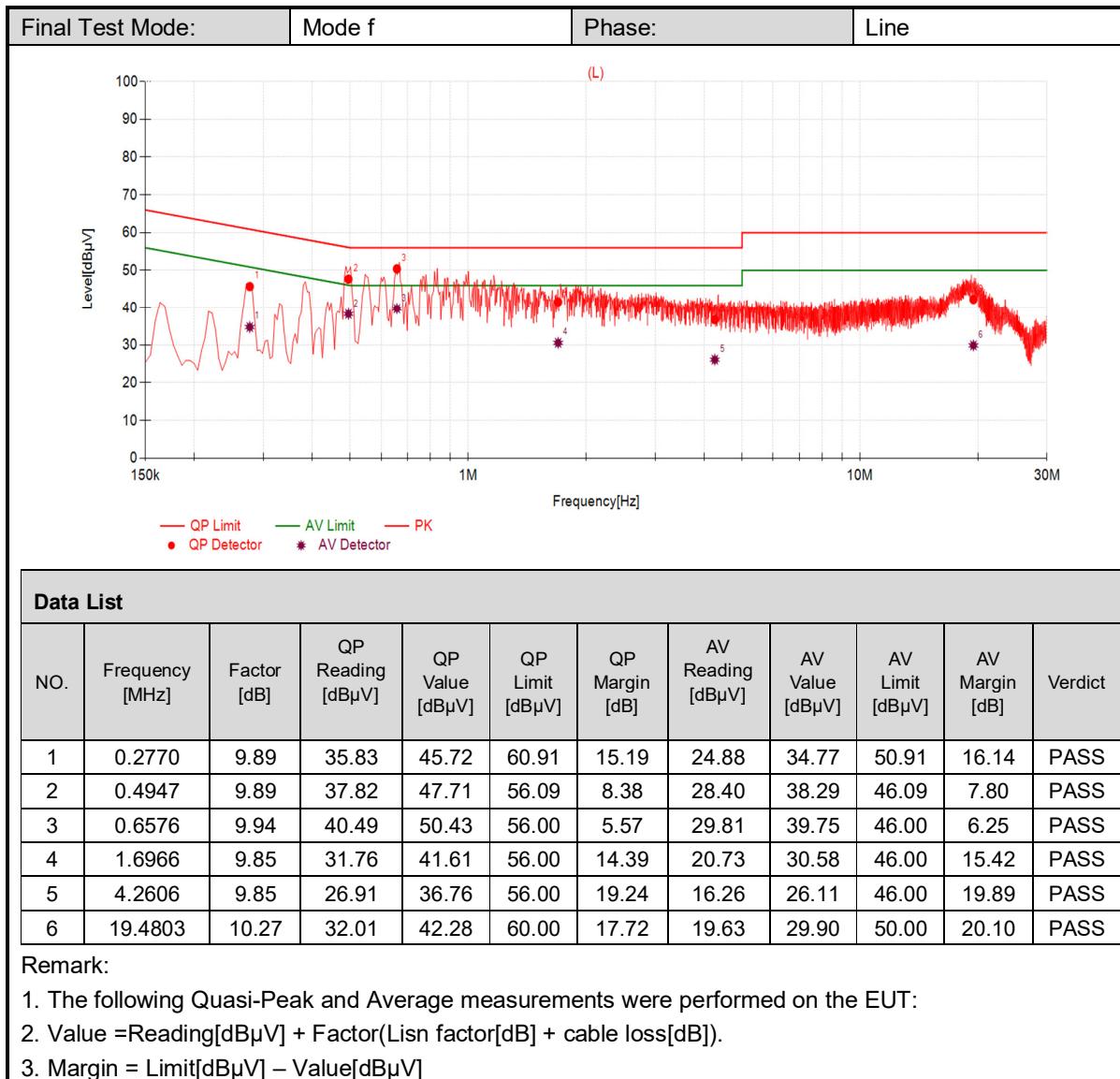
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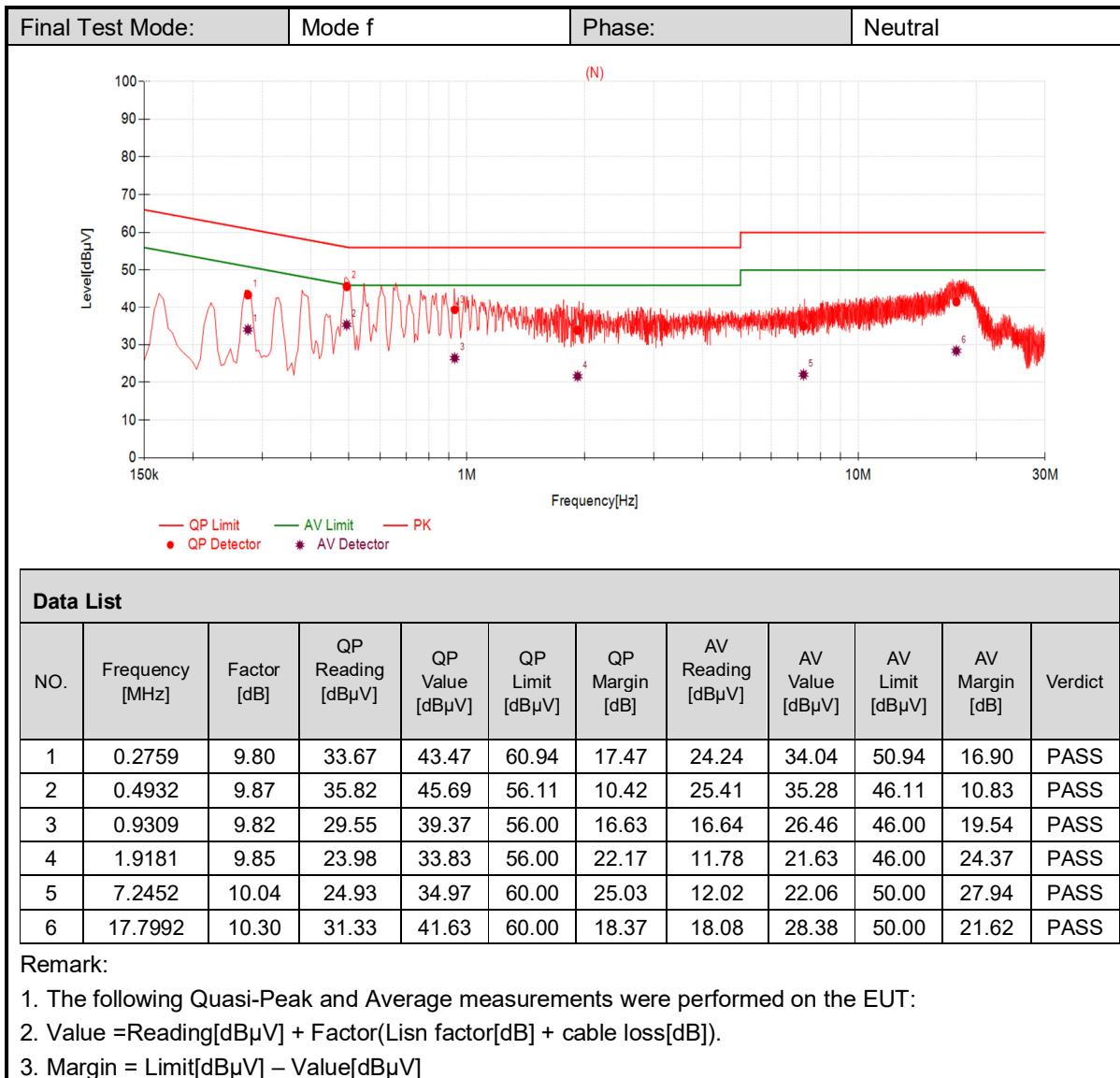
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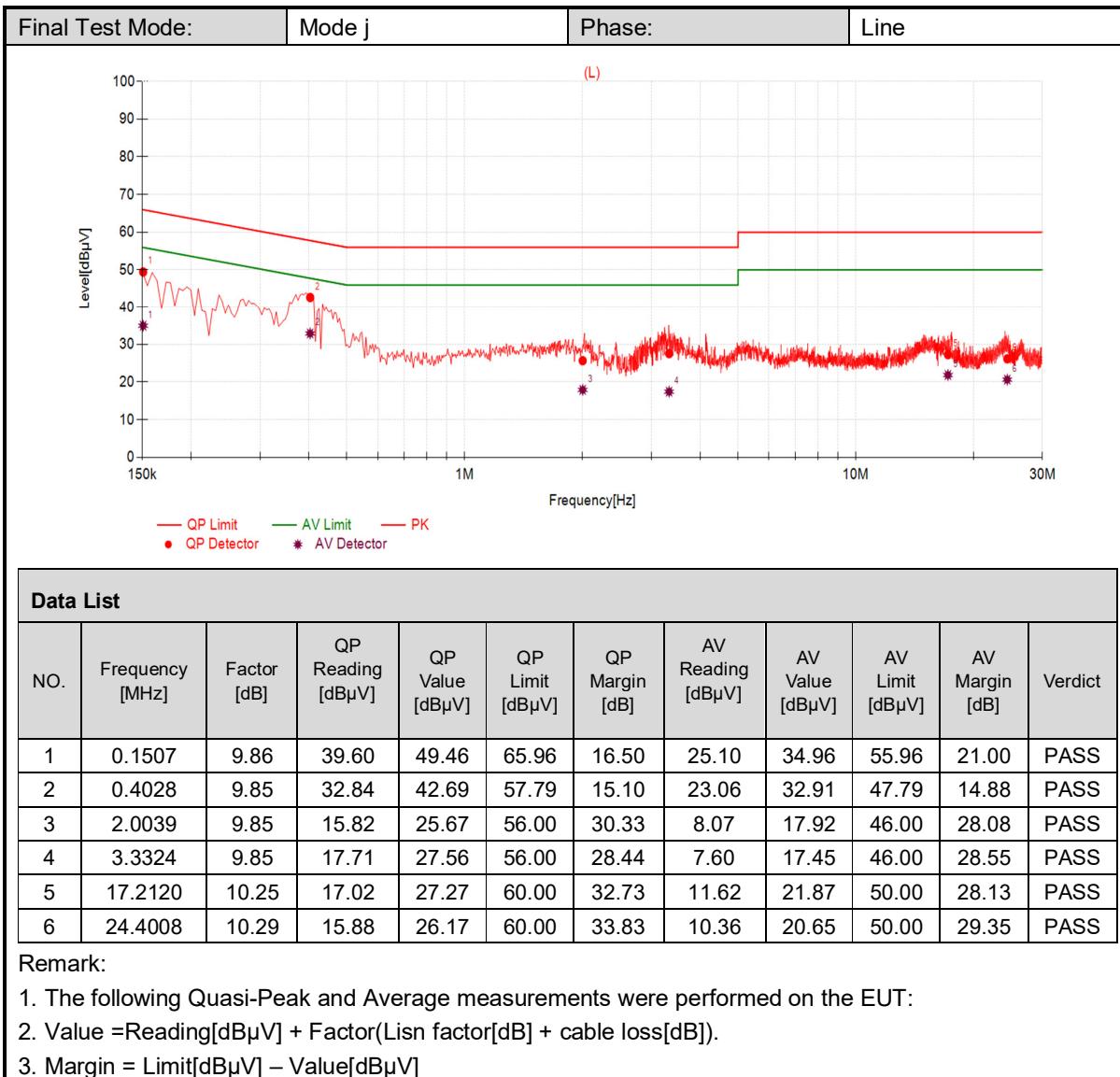
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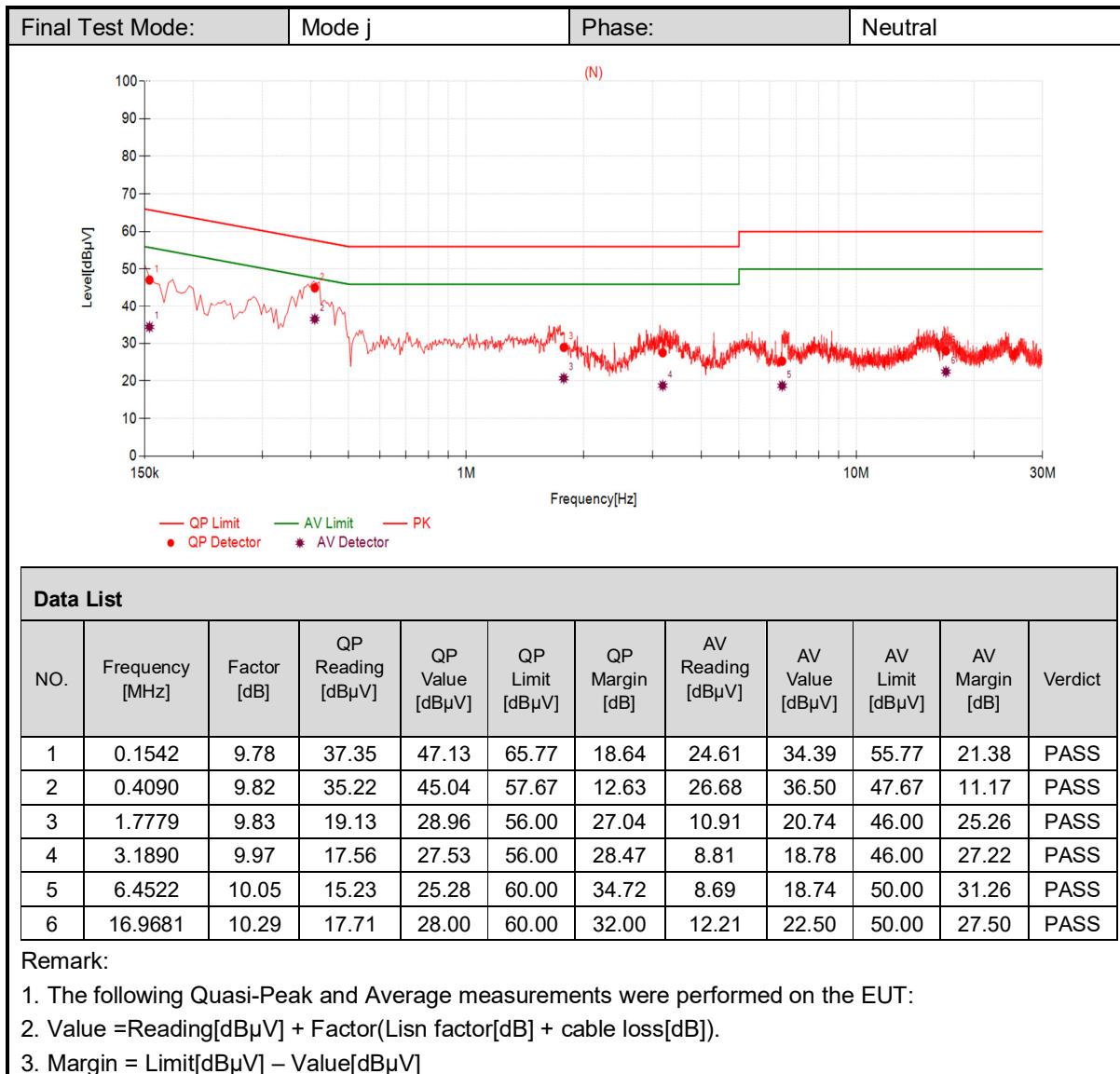
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## 2.2 Radiated Emissions (30MHz-1GHz)

Test Requirement:	47 CFR Part 15, Subpart B		
Test Method:	ANSI C63.4:2014		
Frequency Range:	30MHz to 1GHz		
Measurement Distance:	3m		
Limit:	Frequency Range (MHz)	Limit(dB $\mu$ V/m)	Detector
	30MHz -88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1000MHz	54.0	Quasi-peak
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz		

### 2.2.1 E.U.T. Operation

Temperature:	22~25°C
Humidity:	40~60%RH
Atmospheric Pressure:	96.0~98.0kPa
Pretest these modes to find the worst case:	a: adapter+USB Cable+BT+5G WLAN +Camera(Front)+LTE Band 12 Idle b: adapter+USB Cable+BT+2.4G WLAN +Camera(Rear)+ WCDMA Band V Idle c: adapter+USB Cable+BT+5G WLAN +MP3+GSM 850 Idle d: adapter+USB Cable+BT+2.4G WLAN +MP4+LTE Band 5 Idle e: adapter+USB Cable+BT+2.4G WLAN +FM+LTE Band 17 Idle f: adapter+USB Cable+BT+5G WLAN +GPS RX+LTE Band 71 Idle g: adapter+USB Cable+BT+2.4G WLAN +FM+LTE Band 26 Idle h: Transfer data between PC and EUT+USB Cable i: Transfer data between EUT and PC+USB Cable j: Transfer data between PC and SD+USB Cable k: Transfer data between SD and PC+USB Cable
The worst case for final test:	e: adapter+USB Cable+BT+2.4G WLAN +FM+LTE Band 17 Idle k: Transfer data between SD and PC+USB Cable

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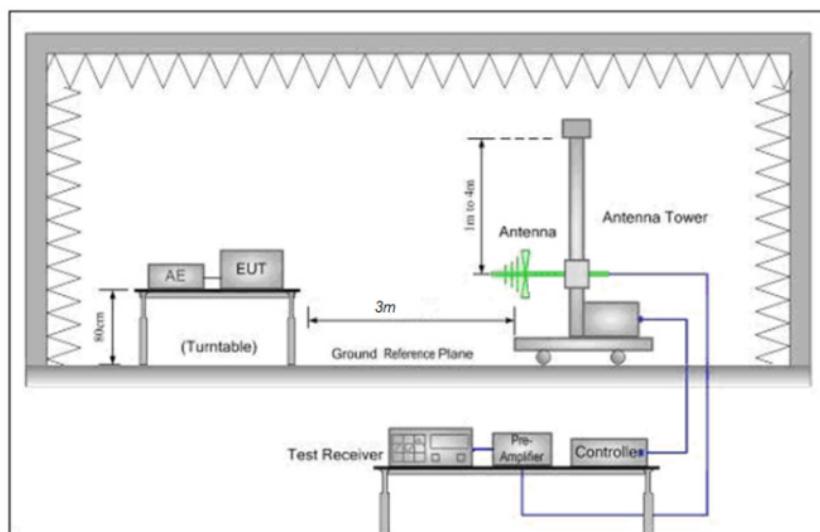
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### 2.2.2 Test Setup Procedures

1. The EUT was placed in a semi Anechoic Chamber as show below
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna height is adjusted between 1 to 4 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 was 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 with specified bandwidth with Maximum Hold Mode, and the trace was allowed to stabilize.
7. If the emission level of the EUT in peak mode was 6 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.



### 2.2.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

The three polarities of X, Y, Z were measured by EUT, but only the worst data had been displayed.

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Final Test Mode:		Mode e		Polarization:		Horizontal																																																																																												
<b>Data List</b>																																																																																																		
<table border="1"> <thead> <tr> <th>NO.</th><th>Freq. [MHz]</th><th>AF[dB/m]</th><th>Factor [dB]</th><th>QP Reading [dBμV]</th><th>QP Value [dBμV/m]</th><th>QP Limit [dBμV/m]</th><th>QP Margin [dB]</th><th>Height [cm]</th><th>Angle [°]</th><th>Polarity</th></tr> </thead> <tbody> <tr> <td>1</td><td>33.1046</td><td>11.30</td><td>-28.00</td><td>36.4</td><td>19.70</td><td>40.00</td><td>20.30</td><td>336</td><td>270</td><td>Horizontal</td></tr> <tr> <td>2</td><td>44.1648</td><td>13.82</td><td>-27.86</td><td>30.34</td><td>16.30</td><td>40.00</td><td>23.70</td><td>254</td><td>239</td><td>Horizontal</td></tr> <tr> <td>3</td><td>152.4385</td><td>7.72</td><td>-26.66</td><td>46.51</td><td>27.57</td><td>43.50</td><td>15.93</td><td>158</td><td>236</td><td>Horizontal</td></tr> <tr> <td>4</td><td>188.5297</td><td>10.26</td><td>-26.66</td><td>47.64</td><td>31.24</td><td>43.50</td><td>12.26</td><td>146</td><td>262</td><td>Horizontal</td></tr> <tr> <td>5</td><td>280.6981</td><td>12.93</td><td>-25.92</td><td>36.91</td><td>23.92</td><td>46.00</td><td>22.08</td><td>381</td><td>273</td><td>Horizontal</td></tr> <tr> <td>6</td><td>604.1608</td><td>19.18</td><td>-24.75</td><td>28.95</td><td>23.38</td><td>46.00</td><td>22.62</td><td>146</td><td>7</td><td>Horizontal</td></tr> <tr> <td>7*</td><td>739.4059</td><td>19.76</td><td>-23.99</td><td>43.15</td><td>38.92</td><td>-</td><td>-</td><td>300</td><td>128</td><td>Horizontal</td></tr> </tbody> </table>											NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	1	33.1046	11.30	-28.00	36.4	19.70	40.00	20.30	336	270	Horizontal	2	44.1648	13.82	-27.86	30.34	16.30	40.00	23.70	254	239	Horizontal	3	152.4385	7.72	-26.66	46.51	27.57	43.50	15.93	158	236	Horizontal	4	188.5297	10.26	-26.66	47.64	31.24	43.50	12.26	146	262	Horizontal	5	280.6981	12.93	-25.92	36.91	23.92	46.00	22.08	381	273	Horizontal	6	604.1608	19.18	-24.75	28.95	23.38	46.00	22.62	146	7	Horizontal	7*	739.4059	19.76	-23.99	43.15	38.92	-	-	300	128	Horizontal
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Note*: #7 30M-1G: is system simulator signal which can be ignored.																																																																																																		

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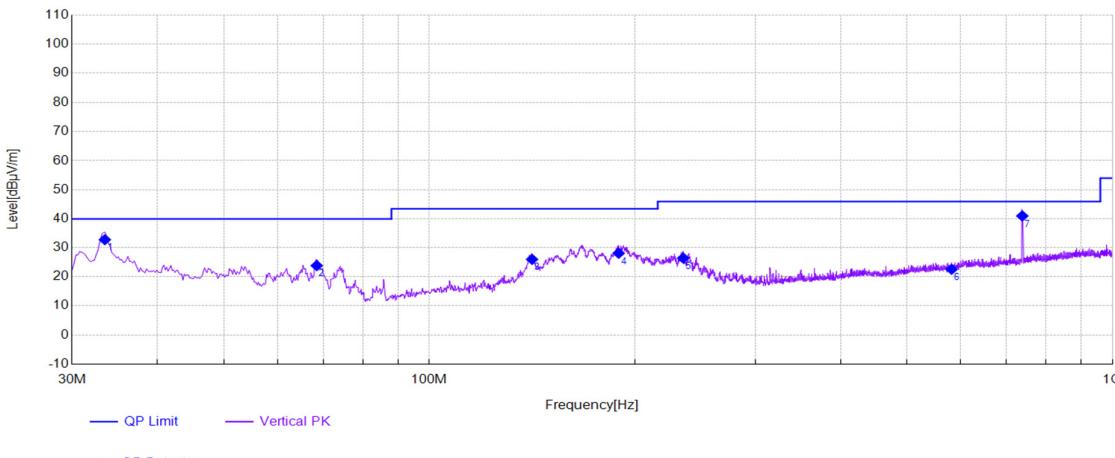


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Final Test Mode:		Mode e		Polarization:		Vertical							
													
<b>Data List</b>													
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading[dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	33.4927	11.30	-28.00	49.27	32.57	40.00	7.43	132	20	Vertical			
2	68.4197	10.33	-27.44	40.84	23.73	40.00	16.27	220	23	Vertical			
3	141.3783	7.72	-26.47	44.6	25.85	43.50	17.65	281	4	Vertical			
4	189.3059	10.37	-26.68	44.25	27.94	43.50	15.56	393	112	Vertical			
5	235.2931	12.31	-26.36	40.34	26.29	46.00	19.71	147	137	Vertical			
6	581.4583	18.30	-24.80	28.96	22.46	46.00	23.54	250	60	Vertical			
7*	737.8536	19.91	-24.03	45.16	41.04	-	-	200	134	Vertical			
<b>Remark:</b> <ol style="list-style-type: none"> <li>1. The Quasi-Peak measurements were performed on the EUT.</li> <li>2. Value = Reading + AF + Factor: AF = Antenna Factor(dB/m) Factor = Cable Factor(dB) - Preamplifier (dB) Margin = Limit[dBμV/m] - Value[dBμV/m]</li> </ol>													
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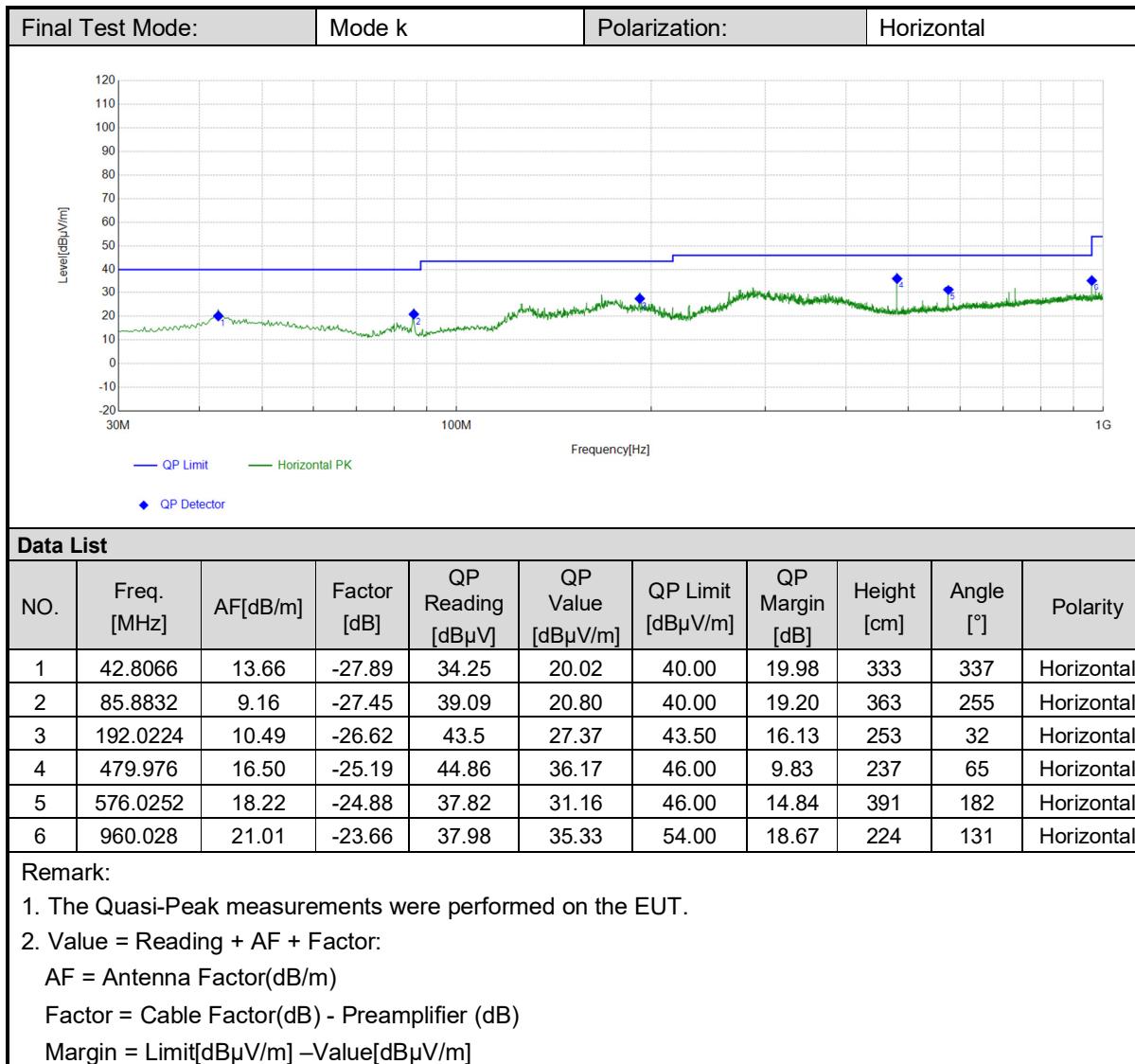


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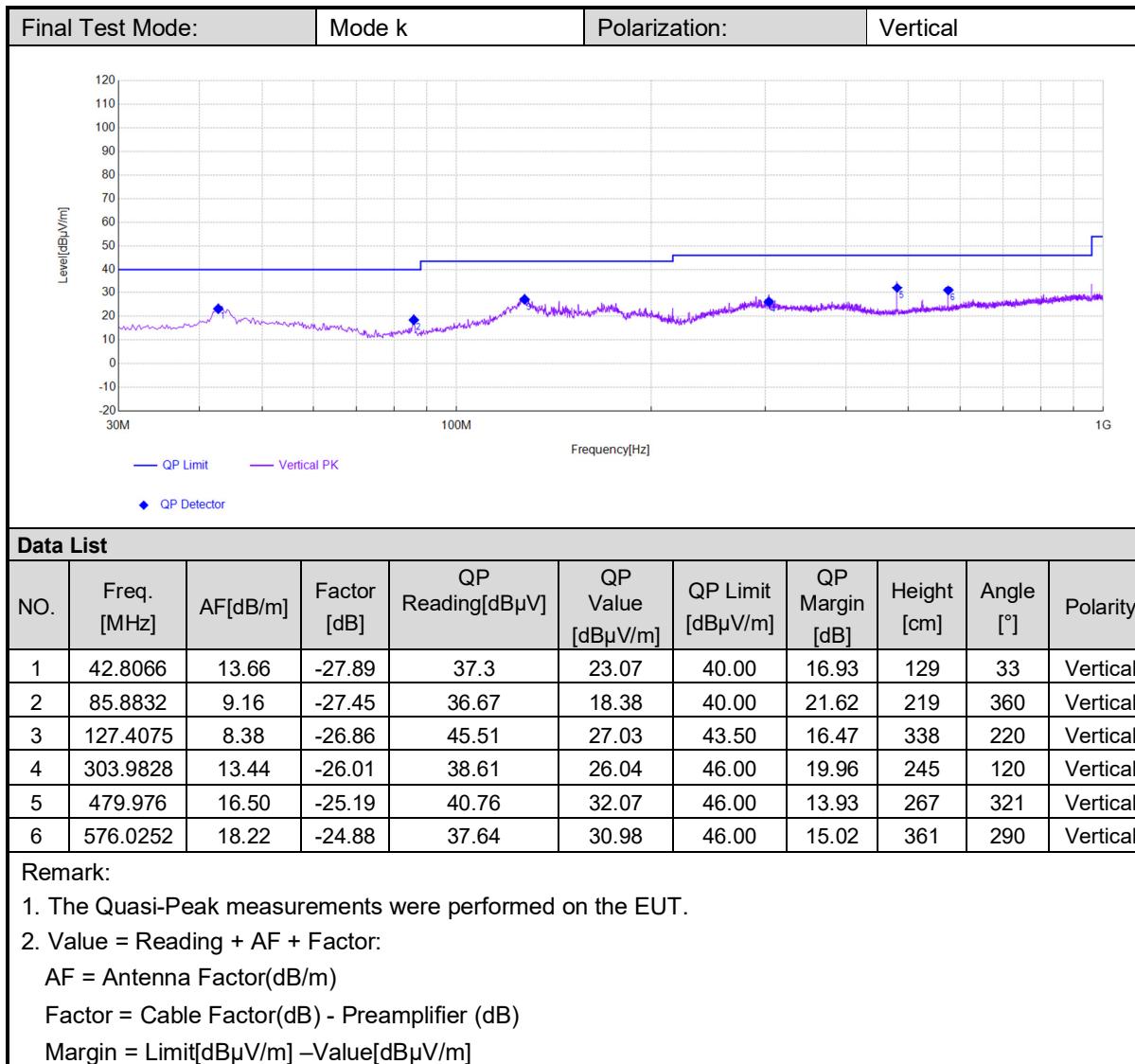


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**2.3 Radiated Emissions (above 1GHz)**

Test Requirement:	47 CFR Part 15, Subpart B		
Test Method:	ANSI C63.4:2014		
Frequency Range:	Above 1GHz		
Measurement Distance:	3m		
Limit:	Frequency (MHz)	Limit (dB $\mu$ V/m)	Detector
	Above 1GHz	74	Peak
		54	Average
Detector:	Peak for pre-scan (1000kHz resolution bandwidth) 5th harmonic of the highest frequency or 40GHz, whichever is lower.		

**2.3.1 E.U.T. Operation**

Temperature:	22~25°C
Humidity:	40~60%RH
Atmospheric Pressure:	96.0~98.0kPa
Pretest these modes to find the worst case:	a: adapter+USB Cable+BT+5G WLAN +Camera(Front)+LTE Band 12 Idle b: adapter+USB Cable+BT+2.4G WLAN +Camera(Rear)+ WCDMA Band V Idle c: adapter+USB Cable+BT+5G WLAN +MP3+GSM 850 Idle d: adapter+USB Cable+BT+2.4G WLAN +MP4+LTE Band 5 Idle e: adapter+USB Cable+BT+2.4G WLAN +FM+LTE Band 17 Idle f: adapter+USB Cable+BT+5G WLAN +GPS RX+LTE Band 71 Idle g: adapter+USB Cable+BT+2.4G WLAN +FM+LTE Band 26 Idle h: Transfer data between PC and EUT+USB Cable i: Transfer data between EUT and PC+USB Cable j: Transfer data between PC and SD+USB Cable k: Transfer data between SD and PC+USB Cable
The worst case for final test:	a: adapter+USB Cable+BT+5G WLAN +Camera(Front)+LTE Band 12 Idle h: Transfer data between PC and EUT+USB Cable

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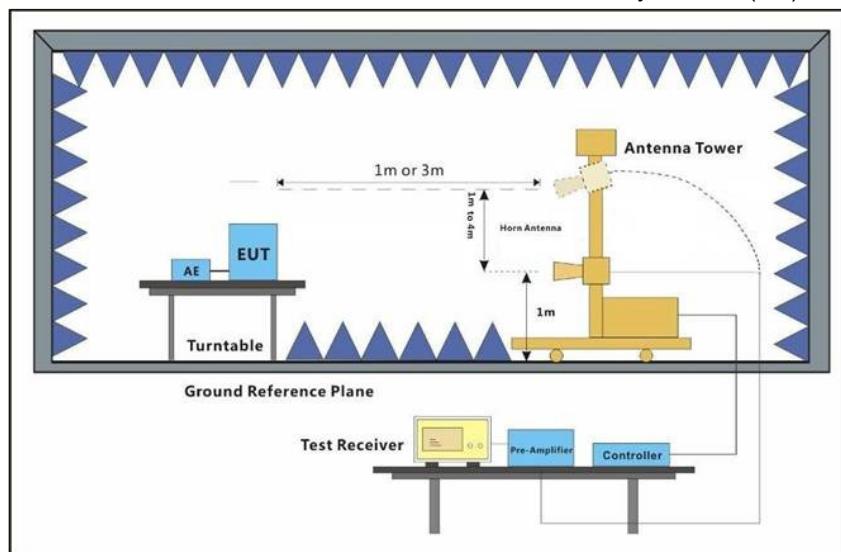
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### 2.3.2 Test Setup Procedures

1. The EUT was placed in a full Anechoic Chamber as show below
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation  
(Distance from antenna to EUT is 1m for measurements >18GHz).
4. The antenna height is adjusted between 1 to 4 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 was 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 and AV Detect Function with specified bandwidth with Maximum Hold Mode, and the trace was allowed to stabilize.
7. At a measurement distance of 1 meter the limit line was increased by  $20 \times \text{LOG}(3/1) = 9.54 \text{ dB}$ .



### 2.3.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

The three polarities of X, Y, Z were measured by EUT, but only the worst data had been displayed. Scan from 5th harmonic of the highest frequency or 40GHz, whichever is lower, the disturbance above 18GHz was very low. The points marked on below plots are the highest emissions could be found when testing, so only below points had been displayed.



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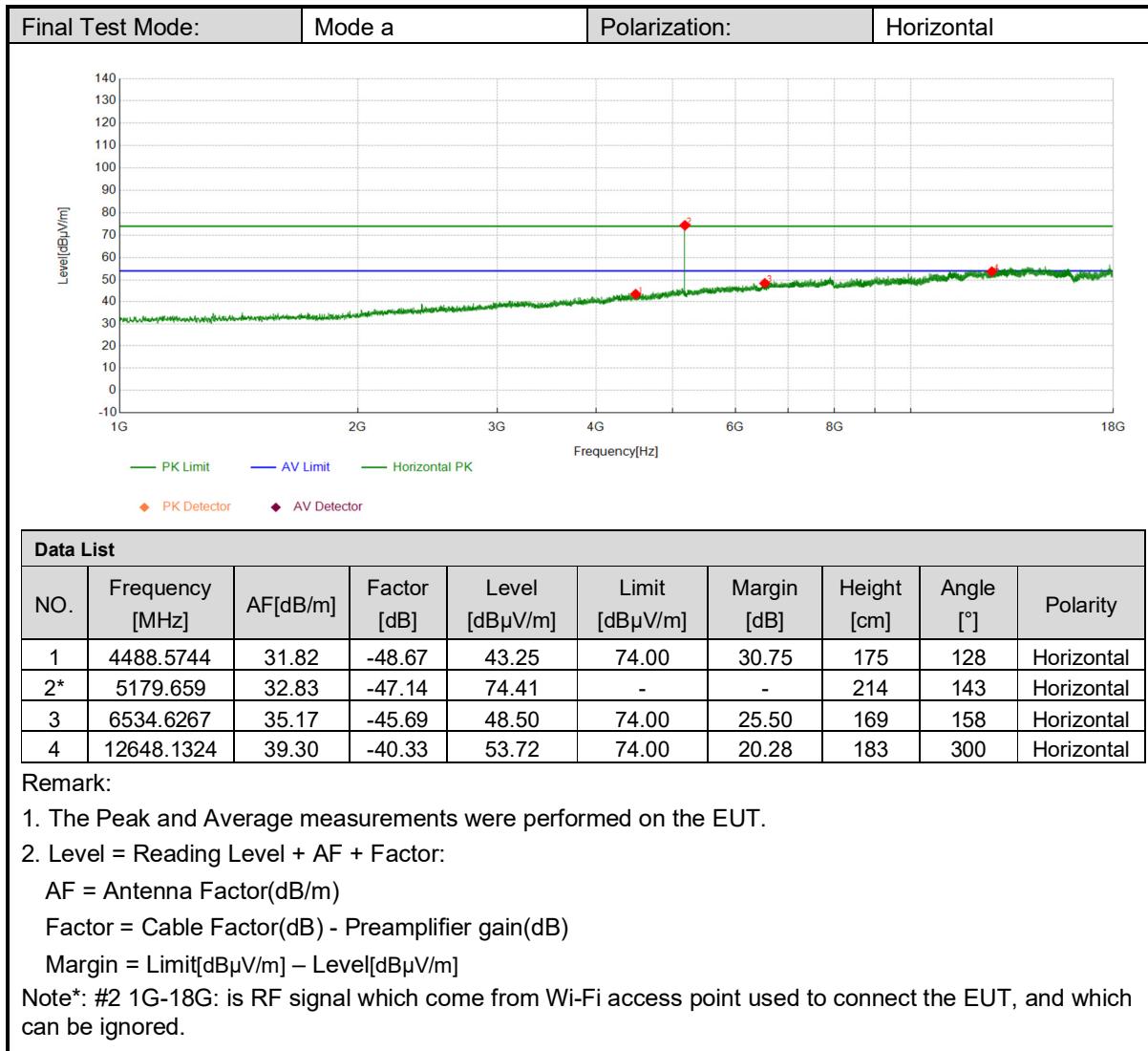
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Final Test Mode:	Mode a	Polarization:	Vertical
------------------	--------	---------------	----------

Level [dB $\mu$ V/m]

Frequency [Hz]

PK Limit

AV Limit

Vertical PK

PK Detector

AV Detector

**Data List**

NO.	Frequency [MHz]	AF[dB/m]	Factor [dB]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3637.6819	30.35	-50.32	41.21	74.00	32.79	252	150	Vertical
2*	5179.659	32.83	-47.14	78.32	-	-	105	120	Vertical
3	7382.1191	36.84	-44.74	50.26	74.00	23.74	336	269	Vertical
4	13486.2743	40.13	-39.54	56.54	74.00	17.46	150	82	Vertical

**Remark:**

1. The Peak and Average measurements were performed on the EUT.
2. Level = Reading Level + AF + Factor:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit[dB $\mu$ V/m] – Level[dB $\mu$ V/m]

Note\*: #2 1G-18G: is RF signal which come from Wi-Fi access point used to connect the EUT, and which can be ignored.

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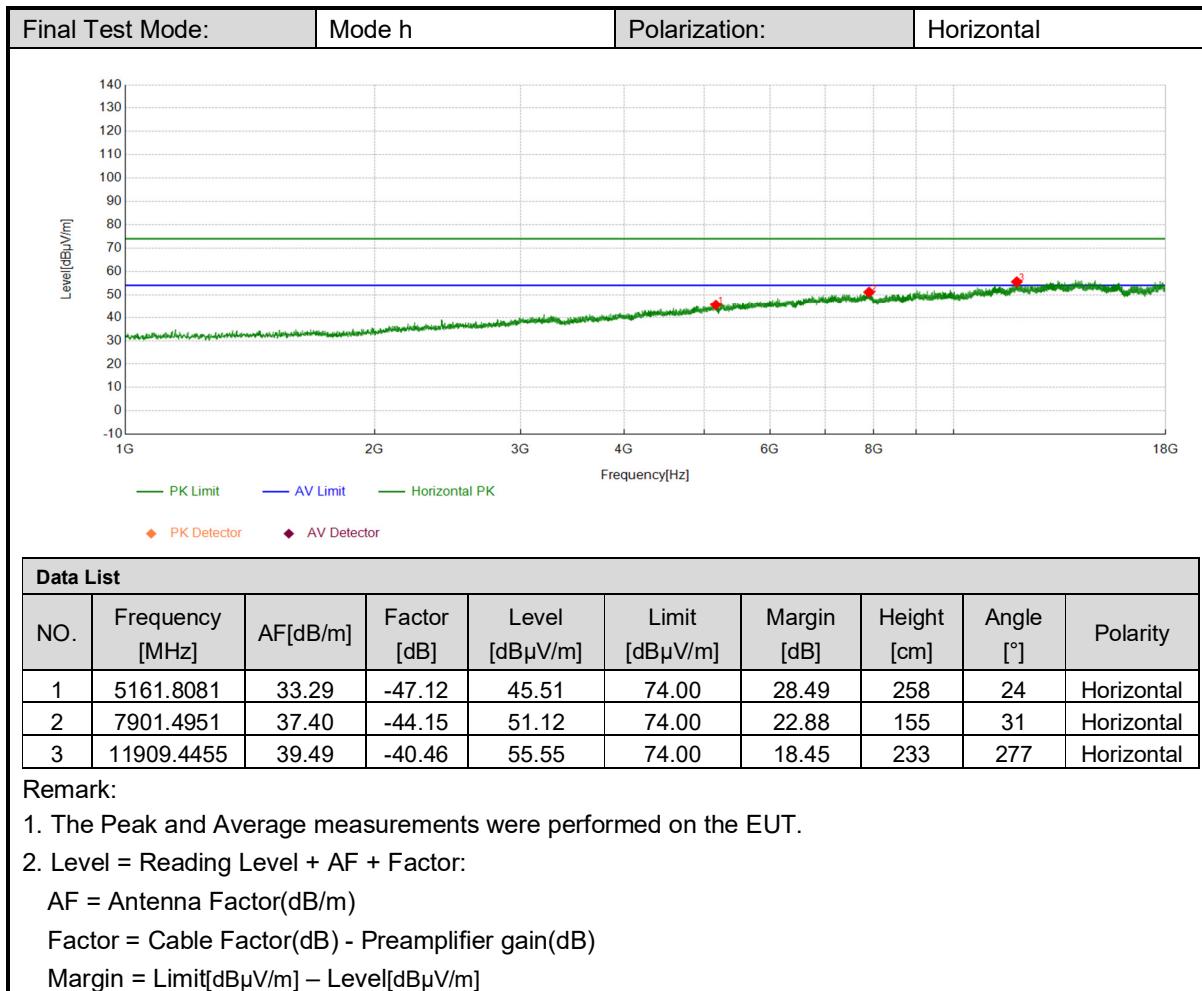
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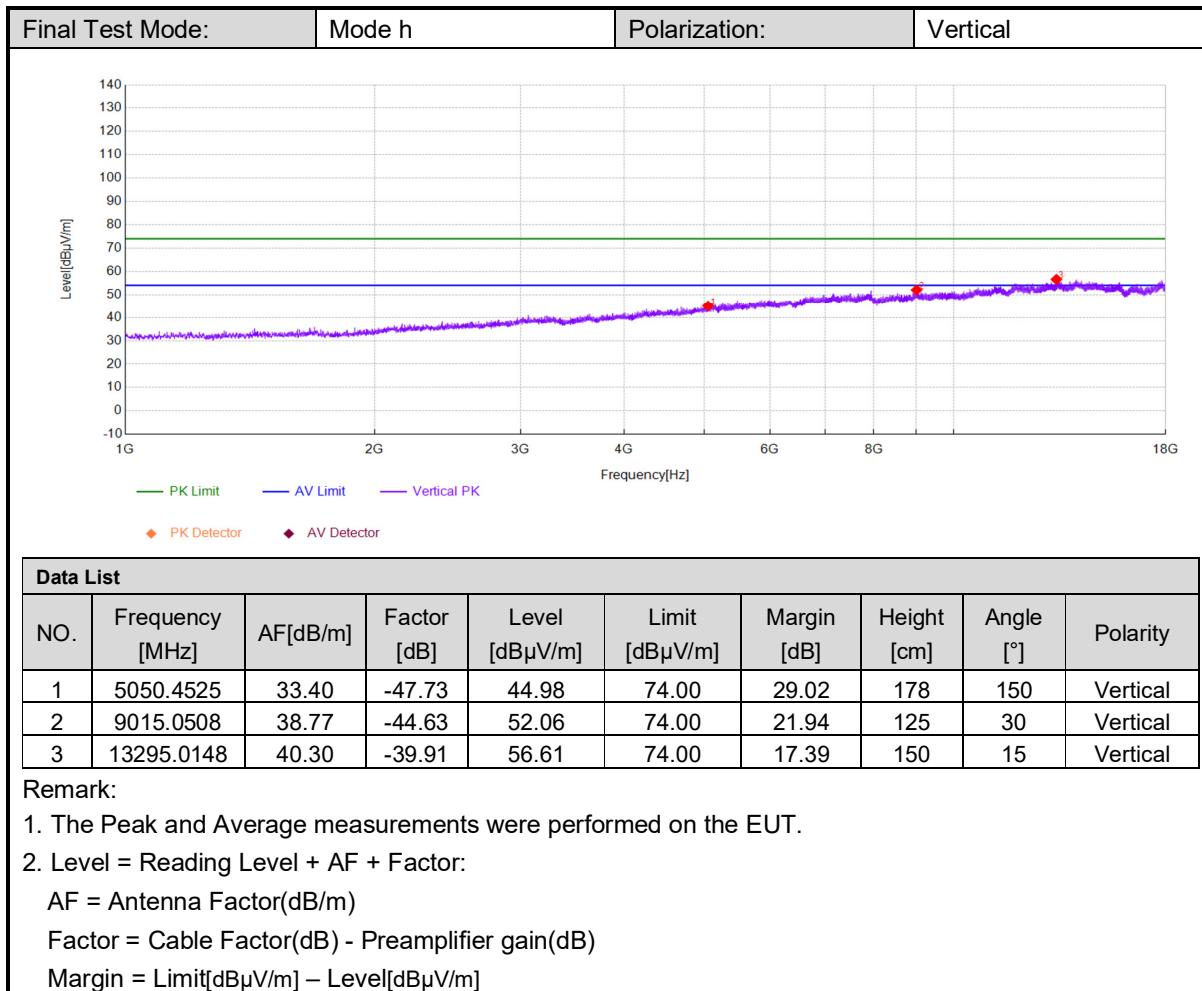
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### 3 Equipment List

CE Test System					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	XAW04-03-01	N/A	N/A
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2022/09/08	2023/09/07
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2022/06/30	2023/06/29
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2022/09/18	2023/09/17
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-07-01	NCR	NCR
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2023/02/16	2024/02/15
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-02	2022/06/30	2023/06/29

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RE Test System					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/d d)
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2021/09/09	2024/09/08
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2023/02/16	2024/02/15
Spectrum Analyzer	ROHDE &SCHWARZ	FSV3044	XAW01-13-05	2022/05/24	2023/05/23
Test receiver	ROHDE &SCHWARZ	ESR	XAW01-08-01	2022/09/08	2023/09/07
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2022/07/28	2024/07/27
Receiving antenna(1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2022/07/28	2024/07/27
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2022/07/23	2024/07/22
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR
Amplifier	Tonscend	TAP9K3G32	XAW01-41-01	2022/05/24	2023/05/23
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2022/09/14	2023/09/13
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2022/09/14	2023/09/13
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2022/09/14	2023/09/13
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2022/09/18	2023/09/17
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2023/02/16	2024/02/15
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-05-01	NCR	NCR

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## 4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
2	Radiated Emission	± 4.9dB (30MHz to 1GHz)
		± 4.9dB (1GHz to 6GHz)
		± 4.7dB (6GHz to 18GHz)
		± 5.26dB (Above 18GHz)

## Remark:

The  $U_{lab}$  (lab Uncertainty) is less than  $U_{cisp/ETSI}$  (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

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## 5 Photographs

### 5.1 Test Setup

Refer to Appendix A.1 15B Setup Photos.

---End of Report---



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