



# FCC RF Test Report

**APPLICANT** : Motorola Mobility LLC  
**EQUIPMENT** : Mobile Cellular Phone  
**BRAND NAME** : Motorola  
**MODEL NAME** : XT2309-2  
**FCC ID** : IHDT56AH5  
**STANDARD** : 47 CFR Part 2, 22(H), 24(E), 27(L), 27(M)  
**CLASSIFICATION** : PCS Licensed Transmitter Held to Ear (PCE)  
**TEST DATE(S)** : Nov. 24, 2022

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



**Sporton International Inc. (Kunshan)**

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300  
People's Republic of China**



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## SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
-	§2.1046	Conducted Output Power	-	Report Only	-
	§22.913(a)(5)	Effective Radiated Power (Band 5)	ERP < 7 Watt	PASS	-
	§24.232(c) §27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 2) (Band 7)	EIRP < 2Watt		-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (Band 4) (Band 66)	EIRP < 1Watt		-
-	§24.232(d)	Peak-to-Average Ratio	<13 dB	PASS	-
-	§2.1049	Occupied Bandwidth	-	Report Only	-
-	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 66)	< 43+10log10(P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (Band 7)	§27.53(m)(4)		
-	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5)(Band 66)	< 43+10log10(P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (Band 7)	< 55+10log <sub>10</sub> (P[Watts])		
-	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22	PASS	-
	§2.1055 §24.235 §27.54		Within Authorized Band		
3.4	§2.1053 §22.917(a) §24.238(a) §27.53(h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5)(Band 66)	< 43+10log <sub>10</sub> (P[Watts])	PASS	Under limit 23.47 dB at 10104.000 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 7)	< 55+10log <sub>10</sub> (P[Watts])		

**Remark 1 :**

The test items of inter band CA were cover by LTE single carrier due to the CA power is reduced according to 3GPP MPR

**Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

**Comments and Explanations:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



# 1 General Description

## 1.1 Applicant

Motorola Mobility LLC  
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

## 1.2 Manufacturer

Motorola Mobility LLC  
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

## 1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2309-2
FCC ID	IHDT56AH5
IMEI Code	Radiation: 358554730015371/358554730015389
HW Version	DVT2
SW Version	T1TB33.3
EUT Stage	Identical Prototype

## 1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 2 : 1850 MHz ~ 1910 MHz LTE Band 4 : 1710 MHz ~ 1755 MHz LTE Band 5 : 824 MHz ~ 849 MHz LTE Band 7 : 2500 MHz ~ 2570 MHz LTE Band 66 : 1710 MHz ~ 1780 MHz
Rx Frequency	LTE Band 2 : 1930 MHz ~ 1990 MHz LTE Band 4 : 2110 MHz ~ 2155 MHz LTE Band 5 : 869 MHz ~ 894 MHz LTE Band 7 : 2620 MHz ~ 2690 MHz LTE Band 66 : 2110 MHz~ 2200 MHz
Uplink CA Bands	2A-4A, 2A-7A, 2A-66A 4A-5A, 4A-7A 5A-7A
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM

## 1.5 Modification of EUT

No modifications are made to the EUT during all test items.



## 1.6 Specification of Accessory

Specification of Accessory				
AC Adapter 1(US)	Brand Name	Motorola (Chenyang)	Model Name	MC-681N
AC Adapter 1(EU)	Brand Name	Motorola (Chenyang)	Model Name	MC-682N
AC Adapter 1(UK)	Brand Name	Motorola (Chenyang)	Model Name	MC-683N
AC Adapter 1(AU)	Brand Name	Motorola (Chenyang)	Model Name	MC-685N
AC Adapter 1(AR)	Brand Name	Motorola (Chenyang)	Model Name	MC-686N
AC Adapter 1(BR)	Brand Name	Motorola (Chenyang)	Model Name	MC-687N
AC Adapter 1(CHILE)	Brand Name	Motorola (Chenyang)	Model Name	MC-689N
AC Adapter 2(US)	Brand Name	Motorola (Acbel)	Model Name	MC-681N
AC Adapter 2(EU)	Brand Name	Motorola (Acbel)	Model Name	MC-682N
AC Adapter 2(UK)	Brand Name	Motorola (Acbel)	Model Name	MC-683N
AC Adapter 2(AU)	Brand Name	Motorola (Acbel)	Model Name	MC-685N
AC Adapter 2(AR)	Brand Name	Motorola (Acbel)	Model Name	MC-686N
AC Adapter 2(BR)	Brand Name	Motorola (Acbel)	Model Name	MC-687N
AC Adapter 3(IN)	Brand Name	Motorola (Salom)	Model Name	MC-684
Battery	Brand Name	Motorola(SCUD)	Model Name	PB50
Earphone	Brand Name	Motorola (Lyand)	Model Name	MI181C(SH38D62338)
USB Cable 1	Brand Name	Motorola (Saibao)	Model Name	SC18D24968
USB Cable 2	Brand Name	Motorola (Saibao)	Model Name	SC18D71644
Wireless Charging dock	Marketing Name	TurboPower 15W Wireless Charging Stand	Model Name	MW - 03



### 1.7 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

<b>Test Firm</b>	Sporton International Inc. (Kunshan)		
<b>Test Site Location</b>	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	03CH04-KS	CN1257	314309

### 1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH04-KS	AUDIX	E3	6.2009-8-24al

### 1.9 Applicable Standards

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

- 47 CFR Part 2, 22(H), 24(E), 27(L), 27(M)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

**Remark:**

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



## 2 Test Configuration of Equipment Under Test

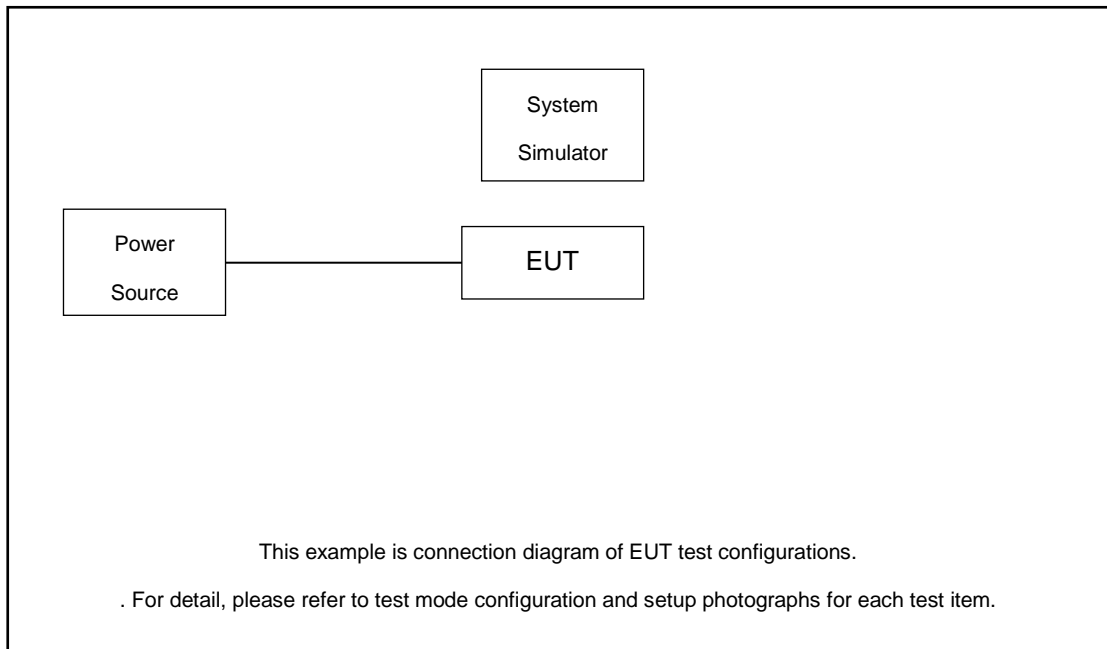
### 2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission. (Z-Plane)

Test Items	Band	Bandwidth (MHz)						Modulation				RB #			Test Channel				
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H		
Radiated Spurious Emission	2A-4A	Worst Case																v	
	2A-7A	Worst Case																v	
	2A-66A	Worst Case																v	
	4A-5A	Worst Case																v	
	4A-7A	Worst Case																v	
	5A-7A	Worst Case																v	
Note	1. The mark "v " means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.																		

### 2.2 Connection Diagram of Test System







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

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m

### 2.4 Frequency List of Low/Middle/High Channels

LTE Band 2 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	18700	18900	19100
	Frequency	1860	1880	1900
15	Channel	18675	18900	19125
	Frequency	1857.5	1880	1902.5
10	Channel	18650	18900	19150
	Frequency	1855	1880	1905
5	Channel	18625	18900	19175
	Frequency	1852.5	1880	1907.5
3	Channel	18615	18900	19185
	Frequency	1851.5	1880	1908.5
1.4	Channel	18607	18900	19193
	Frequency	1850.7	1880	1909.3

LTE Band 4 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20050	20175	20300
	Frequency	1720	1732.5	1745
15	Channel	20025	20175	20325
	Frequency	1717.5	1732.5	1747.5
10	Channel	20000	20175	20350
	Frequency	1715	1732.5	1750
5	Channel	19975	20175	20375
	Frequency	1712.5	1732.5	1752.5
3	Channel	19965	20175	20385
	Frequency	1711.5	1732.5	1753.5
1.4	Channel	19957	20175	20393
	Frequency	1710.7	1732.5	1754.3



LTE Band 5 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	20450	20525	20600
	Frequency	829	836.5	844
5	Channel	20425	20525	20625
	Frequency	826.5	836.5	846.5
3	Channel	20415	20525	20635
	Frequency	825.5	836.5	847.5
1.4	Channel	20407	20525	20643
	Frequency	824.7	836.5	848.3

LTE Band 7 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20850	21100	21350
	Frequency	2510	2535	2560
15	Channel	20825	21100	21375
	Frequency	2507.5	2535	2562.5
10	Channel	20800	21100	21400
	Frequency	2505	2535	2565
5	Channel	20775	21100	21425
	Frequency	2502.5	2535	2567.5



LTE Band 66 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	132072	132322	132572
	Frequency	1720	1745	1770
15	Channel	132047	132322	132597
	Frequency	1717.5	1745	1772.5
10	Channel	132022	132322	132622
	Frequency	1715	1745	1775
5	Channel	131997	132322	132647
	Frequency	1712.5	1745	1777.5
3	Channel	131987	132322	132657
	Frequency	1711.5	1745	1778.5
1.4	Channel	131979	132322	132665
	Frequency	1710.7	1745	1779.3

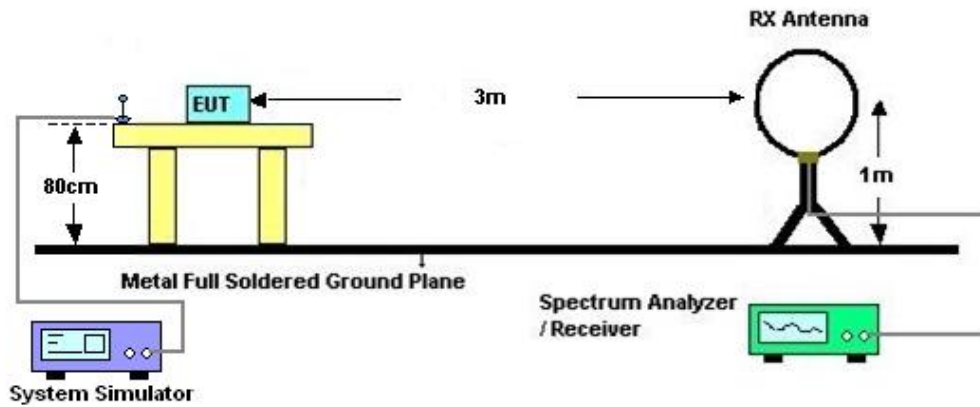
### 3 Radiated Test Items

#### 3.1 Measuring Instruments

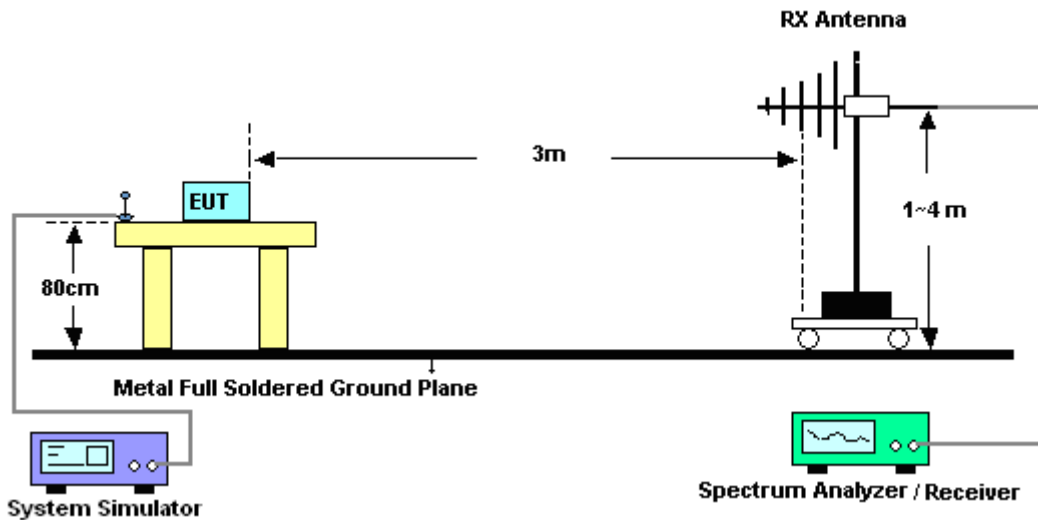
See list of measuring instruments of this test report.

#### 3.2 Test Setup

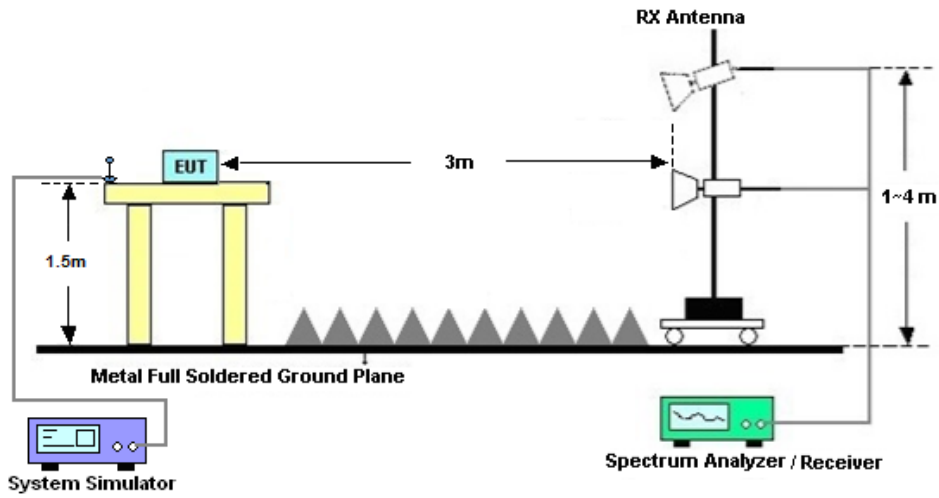
##### 3.2.1 For radiated test below 30MHz



##### 3.2.2 For radiated test from 30MHz to 1GHz



### 3.2.3 For radiated test above 1GHz



### 3.3 Test Result of Radiated Test

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix A.



### 3.4 Radiated Spurious Emission

#### 3.4.1 Description of Radiated Spurious Emission

For LTE Band 2, 4, 5, 66

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

For LTE Band 7

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $55 + 10 \log (P)$  dB.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

#### 3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10.  $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
11.  $ERP \text{ (dBm)} = EIRP - 2.15$
12. For Band 2, 4, 5, 66  
The RF fundamental frequency should be excluded against the limit line in the operating frequency band.  
The limit line is derived from  $43 + 10\log(P)$ dB below the transmitter power P(Watts)  
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$   
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$   
 $= -13\text{dBm}.$
13. For Band 7:  
The limit line is derived from  $55 + 10\log(P)$ dB below the transmitter power P(Watts)



## 4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EXA Spectrum Analyzer	Keysight	N9010B	MY57471079	10Hz-44G,MAX 30dB	Oct. 12, 2022	Nov. 24, 2022	Oct. 11, 2023	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 29, 2022	Nov. 24, 2022	Oct. 28, 2023	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	May 24, 2022	Nov. 24, 2022	May 23, 2023	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1284	1GHz~18GHz	Jan. 05, 2022	Nov. 24, 2022	Jan. 04, 2023	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 05, 2022	Nov. 24, 2022	Jan. 04, 2023	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Jan. 05, 2022	Nov. 24, 2022	Jan. 04, 2023	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 05, 2022	Nov. 24, 2022	Jan. 04, 2023	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18G A	060840	1Ghz-18Ghz	Oct. 12, 2022	Nov. 24, 2022	Oct. 11, 2023	Radiation (03CH04-KS)
Amplifier	Agilent	8449B	3008A02370	1Ghz-18Ghz	Oct. 12, 2022	Nov. 24, 2022	Oct. 11, 2023	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Nov. 24, 2022	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Nov. 24, 2022	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Nov. 24, 2022	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required



## 5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.3dB
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### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.8dB
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### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.8dB
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----- THE END -----





## Appendix A. Test Results of Radiated Test

### Radiated Spurious Emission

Note: Pre-scanned harmonic for the different antenna combinations, we choose the worst antenna mode to perform final test.

ULCA_2A-4A(Ant0+1)								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
LTE B2 BW 20MHz Middle 1RB0,QPSK	3741	-56.38	-13	-43.38	-68.64	2.64	14.90	H
	5613	-54.65	-13	-41.65	-66.51	2.94	14.80	H
	7488	-52.52	-13	-39.52	-62.29	3.39	13.16	H
	3741	-56.27	-13	-43.27	-68.53	2.64	14.90	V
	5613	-54.62	-13	-41.62	-66.48	2.94	14.80	V
	7488	-52.78	-13	-39.78	-62.55	3.39	13.16	V
LTE B4 BW 20MHz Middle 1RB0,QPSK	3471	-57.48	-13	-44.48	-68.22	2.604	13.34	H
	5208	-54.39	-13	-41.39	-64.90	3.011	13.52	H
	6948	-54.04	-13	-41.04	-64.24	3.271	13.47	H
	3471	-57.92	-13	-44.92	-68.66	2.604	13.34	V
	5208	-54.79	-13	-41.79	-65.30	3.011	13.52	V
	6948	-54.01	-13	-41.01	-64.21	3.271	13.47	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

ULCA_2A-7A(Ant0+1)								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
LTE B2 BW 20MHz Middle 1RB0,QPSK	3741	-56.52	-13	-43.52	-68.78	2.64	14.90	H
	5613	-54.82	-13	-41.82	-66.68	2.94	14.80	H
	7488	-51.39	-13	-38.39	-61.16	3.39	13.16	H
	3741	-56.40	-13	-43.40	-68.66	2.64	14.90	V
	5613	-54.44	-13	-41.44	-66.30	2.94	14.80	V
	7488	-51.94	-13	-38.94	-61.71	3.39	13.16	V
LTE B7 BW 20MHz Middle 1RB0,QPSK	5052	-54.71	-25	-29.71	-64.92	3.03	13.24	H
	7584	-51.76	-25	-26.76	-61.21	3.56	13.01	H
	10104	-49.13	-25	-24.13	-58.65	3.92	13.44	H
	5052	-54.93	-25	-29.93	-65.14	3.03	13.24	V
	7584	-51.45	-25	-26.45	-60.90	3.56	13.01	V
	10104	-48.47	-25	-23.47	-57.99	3.92	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



ULCA_2A-66A(Ant0+1)								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
LTE B2 BW 20MHz Middle 1RB0,QPSK	3741	-56.48	-13	-43.48	-68.74	2.64	14.90	H
	5613	-54.80	-13	-41.80	-66.66	2.94	14.80	H
	7488	-52.56	-13	-39.56	-62.33	3.39	13.16	H
	3741	-56.57	-13	-43.57	-68.83	2.64	14.90	V
	5613	-54.69	-13	-41.69	-66.55	2.94	14.80	V
	7488	-52.32	-13	-39.32	-62.09	3.39	13.16	V
LTE B66 BW 20MHz Middle 1RB0,QPSK	3471	-57.92	-13	-44.92	-68.66	2.604	13.34	H
	5208	-54.82	-13	-41.82	-65.33	3.011	13.52	H
	6948	-54.22	-13	-41.22	-64.42	3.271	13.47	H
	3471	-58.02	-13	-45.02	-68.76	2.604	13.34	V
	5208	-54.81	-13	-41.81	-65.32	3.011	13.52	V
	6948	-54.21	-13	-41.21	-64.41	3.271	13.47	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

ULCA_4A-5A(Ant0+1)								
Channel	Frequency ( MHz )	EIRP/ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
LTE B4 BW 20MHz Middle 1RB0,QPSK	3472	-56.60	-13	-43.60	-67.34	2.604	13.34	H
	5205	-54.30	-13	-41.30	-64.81	3.011	13.52	H
	6945	-53.11	-13	-40.11	-63.31	3.271	13.47	H
	3472	-57.08	-13	-44.08	-67.82	2.604	13.34	V
	5205	-54.24	-13	-41.24	-64.75	3.011	13.52	V
	6945	-52.84	-13	-39.84	-63.04	3.271	13.47	V
LTE B5 BW 10MHz Middle 1RB0,QPSK	1664	-65.85	-13	-52.85	-72.82	1.58	10.70	H
	2496	-60.72	-13	-47.72	-68.97	2.102	12.50	H
	3330	-57.03	-13	-44.03	-65.92	2.856	13.90	H
	1664	-65.03	-13	-52.03	-72.00	1.58	10.70	V
	2496	-59.28	-13	-46.28	-67.53	2.10	12.50	V
	3330	-57.10	-13	-44.10	-65.99	2.86	13.90	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



ULCA_4A-7A(Ant0+1)								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
LTE B4 BW 20MHz Middle 1RB0,QPSK	3471	-57.85	-13	-44.85	-68.59	2.604	13.34	H
	5208	-55.02	-13	-42.02	-65.53	3.011	13.52	H
	6948	-53.22	-13	-40.22	-63.42	3.271	13.47	H
	3741	-56.60	-13	-43.60	-67.34	2.604	13.34	V
	5208	-54.79	-13	-41.79	-65.30	3.011	13.52	V
	6948	-53.18	-13	-40.18	-63.38	3.271	13.47	V
LTE B7 BW 20MHz Middle 1RB0,QPSK	5052	-55.12	-25	-30.12	-65.33	3.03	13.24	H
	7584	-51.15	-25	-26.15	-60.60	3.56	13.01	H
	10104	-49.29	-25	-24.29	-58.81	3.92	13.44	H
	5052	-55.11	-25	-30.11	-65.32	3.03	13.24	V
	7584	-51.92	-25	-26.92	-61.37	3.56	13.01	V
	10104	-49.24	-25	-24.24	-58.76	3.92	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

ULCA_5A-7A(Ant0+1)								
Channel	Frequency ( MHz )	EIRP/ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
LTE B5 BW 10MHz Middle 1RB0,QPSK	1664	-63.76	-13	-50.76	-70.73	1.58	10.70	H
	2496	-53.80	-13	-40.80	-62.05	2.102	12.50	H
	3330	-56.98	-13	-43.98	-65.87	2.856	13.90	H
	1664	-62.49	-13	-49.49	-69.46	1.58	10.70	V
	2496	-52.70	-13	-39.70	-60.95	2.10	12.50	V
	3330	-57.09	-13	-44.09	-65.98	2.86	13.90	V
LTE B7 BW 20MHz Middle 1RB0,QPSK	5050	-54.47	-25	-29.47	-64.68	3.03	13.24	H
	7580	-51.81	-25	-26.81	-61.26	3.56	13.01	H
	10110	-49.04	-25	-24.04	-58.56	3.92	13.44	H
	5050	-54.49	-25	-29.49	-64.70	3.03	13.24	V
	7580	-52.10	-25	-27.10	-61.55	3.56	13.01	V
	10110	-49.32	-25	-24.32	-58.84	3.92	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.