

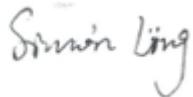
# TEST REPORT

<b>Application No:</b>	HR/2020/90016
<b>Applicant:</b>	A Beep, LLC
<b>Address of Applicant</b>	710 W Jefferson St, Joliet Illinois 60435, USA
<b>Manufacturer:</b>	Quanzhou Tesunho Electronics Co., Ltd
<b>Address of Manufacturer:</b>	2#, 5F E-19# Phase 2 Xunmei, Quanzhou, Fujian, China
<b>EUT Description:</b>	Nationwide Radio
<b>Model No.:</b>	DTP9751
<b>Trade Mark:</b>	
<b>FCC ID:</b>	2APPUDTP9751
<b>Standard(s) :</b>	47 CFR Part 15, Subpart B
<b>Date of Receipt:</b>	2020/10/20
<b>Date of Test:</b>	2020/10/20 to 2020/11/10
<b>Date of Issue:</b>	2021/8/13

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Simon Ling

Wireless Laboratory Manager



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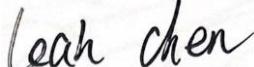
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<b>Revision Record</b>				
<b>Version</b>	<b>Chapter</b>	<b>Date</b>	<b>Modifier</b>	<b>Remark</b>
01		2020/11/10		Original
02		2021/5/29	Leah Chen	1. Modify data conversion error of antenna height 2. Update equipment list
03		2021/8/13	Leah Chen	1. Update Test facility and Test Location

\* This report supersedes our previous report HR/2020/9001603, issued on 2020/11/10, which is hereby deemed null and void.

<b>Authorized for issue by:</b>	
<b>Prepared By</b>	 (Leah Chen) /Engineer
<b>Checked By</b>	 (Daniel Wang) /Reviewer

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## Test Summary

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

<b>Internal Source</b>	<b>Upper Frequency</b>
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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## Contents

<b>1 GENERAL INFORMATION</b>	<b>5</b>
1.1 DESCRIPTION OF SUPPORT UNITS	6
1.2 TEST LOCATION	6
1.3 TEST FACILITY	6
1.4 DEVIATION FROM STANDARDS	6
1.5 ABNORMALITIES FROM STANDARD CONDITIONS	6
<b>2 EMISSION TEST RESULTS</b>	<b>7</b>
2.1 CONDUCTED EMISSIONS AT MAINS TERMINALS (150KHZ-30MHZ)	7
2.1.1 <i>E.U.T. Operation</i>	7
2.1.2 <i>Test Setup Diagram</i>	7
2.1.3 <i>Measurement Data</i>	8
2.2 RADIATED EMISSIONS (30MHZ-1GHz)	11
2.2.1 <i>E.U.T. Operation</i>	11
2.2.2 <i>Test Setup Diagram</i>	11
2.2.3 <i>Measurement Data</i>	12
2.3 RADIATED EMISSIONS (ABOVE 1GHz)	15
2.3.1 <i>E.U.T. Operation</i>	15
2.3.2 <i>Test Setup Diagram</i>	15
2.3.3 <i>Measurement Data</i>	15
<b>3 EQUIPMENT LIST</b>	<b>18</b>
<b>4 MEASUREMENT UNCERTAINTY</b>	<b>20</b>
<b>5 PHOTOGRAPHS</b>	<b>21</b>
5.1 TEST SETUP	21
5.2 EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)	21

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## 1 General Information

Product Name:	Nationwide Radio		
Model No.(EUT):	DTP9751		
Trade Mark:	<b>Diga-Talk®</b>		
Hardware Version:	A02L6000g0		
Software Version:	SZE05		
Frequency Bands:	Band	Tx (MHz)	Rx (MHz)
	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 13	777~787	746~756
	LTE Band 14	788~798	758~768
	LTE Band 66	1710~1780	2110~2200
	LTE Band 71	663~698	617~652

**Accessory:**

Battery			
Battery1	Quanzhou Tesunho Electronics Co.,Ltd.	BL-3886	3.63V; 5200mAh
Adapter			
Adapter1 (US)	Quanzhou Tesunho Electronics Co.,Ltd.	ZM-01A1210	I/P:100-240VAC 50/60Hz 0.5A Max O/P:12VDC 1.0A
Charging Dock			
Charging Dock1	Quanzhou Tesunho Electronics Co.,Ltd.	CH388	Input: 12VDC 1.0A Output: 4.2V/2A
Earphone			
Earphone	\	\	\

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## 1.1 Description of Support Units

Remark:

The EUT is tested individually with the accessories comes with.

## 1.2 Test Location

Company:	SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.
Address:	1/F, Unit D, Building 1, Kanghong Orange Technology Park, No.137, Keyuan 3rd Road, Fengdong New City, Xi'an, Shaanxi China
Post code:	710086
Test engineer:	Ben Huang, Leah Chen

No tests were sub-contracted.

## 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.

- **FCC –Designation Number: CN1271.**

## 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
Limit:	
0.15M-0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
0.5M-5MHz	56dB(μV) quasi-peak, 46dB(μV) average
5M-30MHz	60dB(μV) quasi-peak, 50dB(μV) average
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

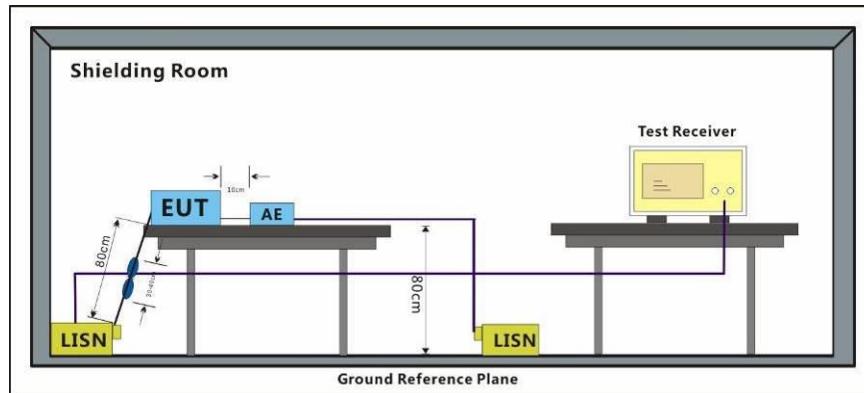
#### 2.1.1 E.U.T. Operation

##### Operating Environment:

Temperature:	18.9 °C	Humidity:	55.1 % RH	Atmospheric Pressure:	1000 mbar
Pretest these modes to find the worst case:	a: WCDMA Band V Idle + GPS Rx + earphone1+ battery1+ adapter1				
	b: LTE Band 5 Idle + GPS Rx + earphone(worst) + battery(worst) + adapter(worst)				
	c: LTE Band 12 Idle + GPS Rx + earphone(worst) + battery(worst) + adapter(worst)				
	d: LTE Band 13 Idle + GPS Rx + earphone(worst)+battery(worst) +adapter(worst)				

The worst case for final test: b: LTE Band 5 Idle + GPS Rx + earphone(worst) + battery(worst) + adapter(worst)

#### 2.1.2 Test Setup Diagram



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**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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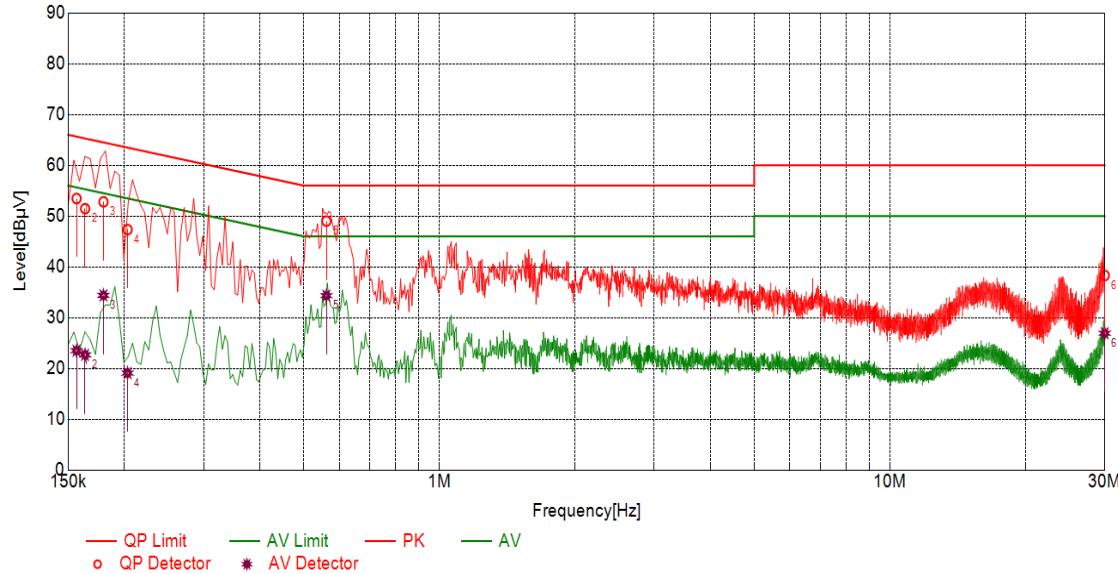
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Mode:b; Line:Live Line

**Test Graph**

Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]
1	0.1566	10.10	53.46	65.64	12.18	23.50	55.64	32.14
2	0.1636	10.10	51.45	65.28	13.83	22.67	55.28	32.61
3	0.1797	10.10	52.80	64.50	11.70	34.38	54.50	20.12
4	0.2033	10.10	47.34	63.47	16.13	19.08	53.47	34.39
5	0.5616	10.10	49.01	56.00	6.99	34.33	46.00	11.67
6	29.9903	10.11	38.31	60.00	21.69	26.93	50.00	23.07

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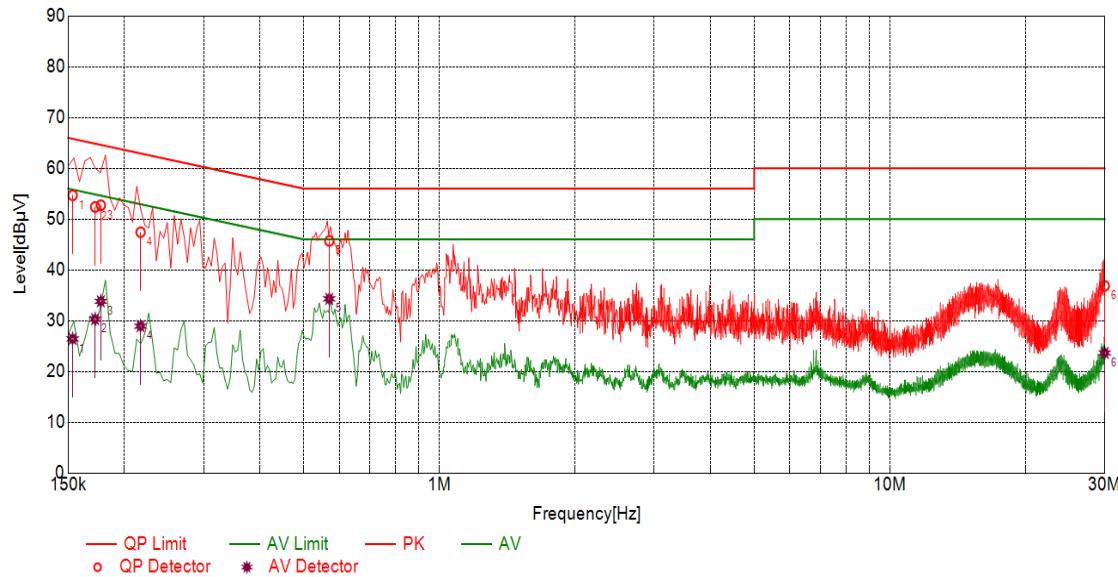
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Mode:b; Line:Neutral Line

**Test Graph**

Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]
1	0.1535	10.10	54.67	65.81	11.14	26.41	55.81	29.40
2	0.1722	10.10	52.39	64.85	12.46	30.28	54.85	24.57
3	0.1773	10.10	52.73	64.61	11.88	33.81	54.61	20.80
4	0.2172	10.10	47.42	62.92	15.50	28.92	52.92	24.00
5	0.5698	10.10	45.70	56.00	10.30	34.30	46.00	11.70
6	29.9925	10.11	36.85	60.00	23.15	23.64	50.00	26.36

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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:

30MHz -88MHz 40.0(dB $\mu$ V/m) quasi-peak

88MHz-216MHz 43.5(dB $\mu$ V/m) quasi-peak

216MHz-960MHz 46.0(dB $\mu$ V/m) quasi-peak

960MHz-1000MHz 54.0(dB $\mu$ V/m) quasi-peak

Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz

### 2.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 66.5 % RH Atmospheric Pressure: 1010 mbar

Pretest these modes to find the worst case: a: WCDMA Band V Idle + GPS Rx + earphone1+ battery1+ adapter1

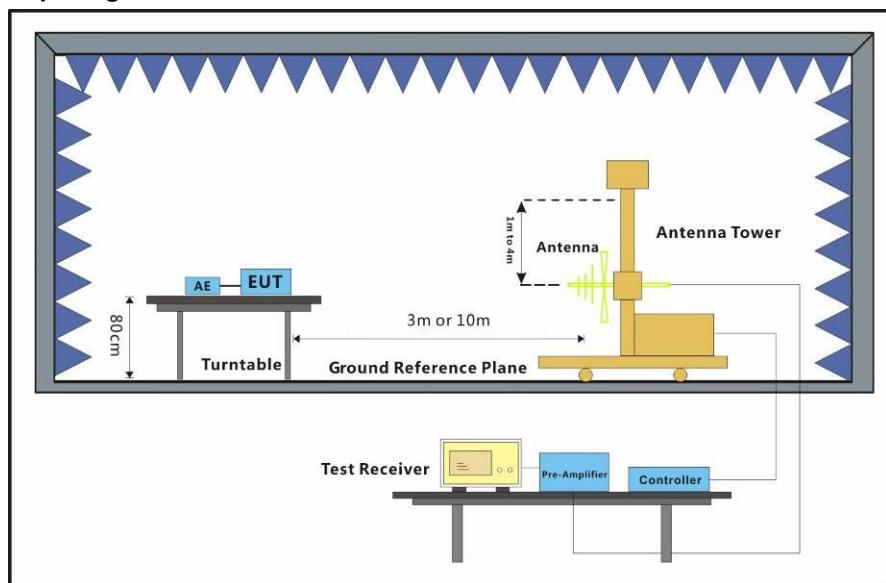
b: LTE Band 5 Idle + GPS Rx + earphone(worst) + battery(worst) + adapter(worst)

c: LTE Band 12 Idle + GPS Rx + earphone(worst) + battery(worst) + adapter(worst)

d: LTE Band 13 Idle + GPS Rx + earphone(worst)+battery(worst) +adapter(worst)

The worst case for final test: b: LTE Band 5 Idle + GPS Rx + earphone(worst) + battery(worst) + adapter(worst)

### 2.2.2 Test Setup Diagram



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**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.

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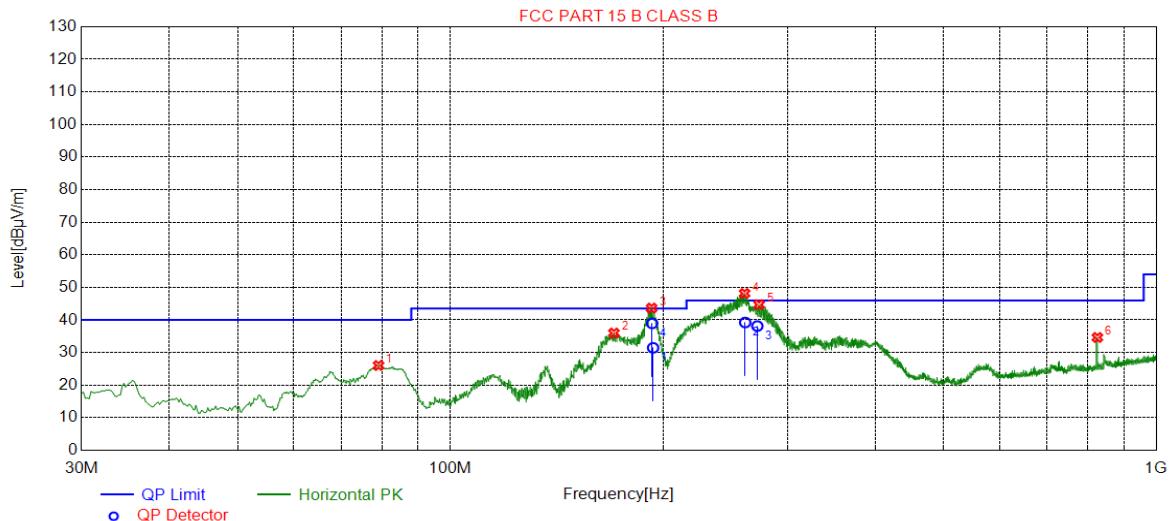
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Mode:b; Polarization:Horizontal

**Suspected List**

<b>Suspected List</b>								
NO.	Freq. [MHz]	Level [dB $\mu$ V/m]	Factor [dB]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	79.0918	26.06	-35.99	40.00	13.94	129	310	Horizontal
2	170.484	36.00	-34.00	43.50	7.50	117	206	Horizontal
3	192.798	43.66	-31.95	43.50	-0.16	179	328	Horizontal
4	261.100	48.15	-29.35	46.00	-2.15	229	331	Horizontal
5	273.712	44.71	-29.10	46.00	1.29	115	310	Horizontal
6	825.365	34.65	-17.33	46.00	11.35	207	360	Horizontal

<b>Final Data List</b>								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dB $\mu$ V/m]	QP Limit [dB $\mu$ V/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
2	261.549	-29.34	39.25	46.00	6.75	118.7	312.8	Horizontal
3	272.106	-29.13	38.14	46.00	7.86	124.5	298.9	Horizontal
4	193.087	-31.92	38.97	43.50	4.53	101	303.2	Horizontal

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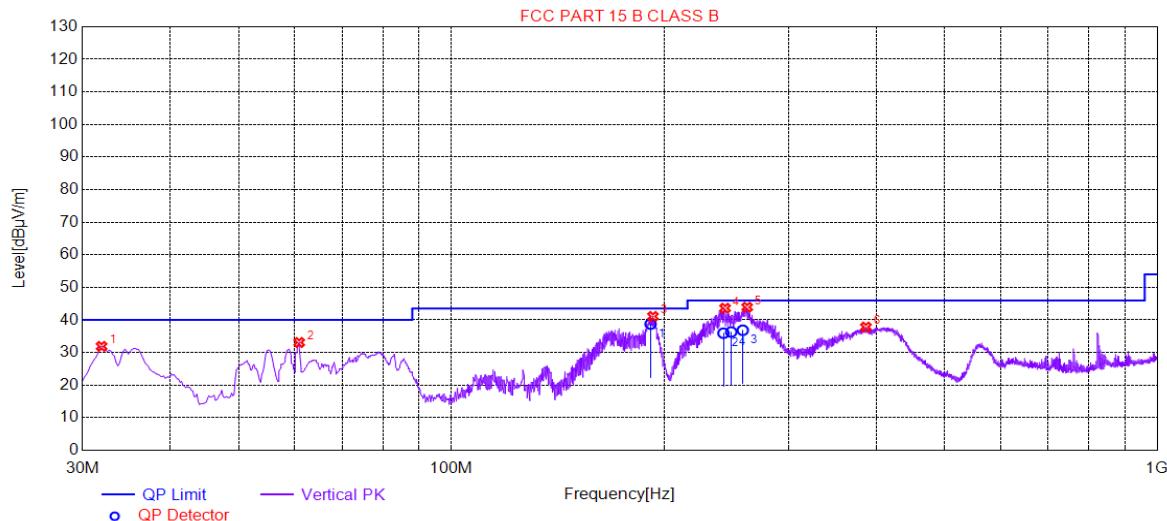


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Mode:b; Polarization:Vertical

**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dB $\mu$ V/m]	Factor [dB]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	31.9404	31.92	-30.03	40.00	8.08	222	0	Vertical
2	60.8522	33.11	-32.08	40.00	6.89	293	14	Vertical
3	192.992	41.10	-31.93	43.50	2.40	288	276	Vertical
4	244.218	43.63	-29.90	46.00	2.37	185	317	Vertical
5	262.458	43.93	-29.32	46.00	2.07	225	335	Vertical
6	386.643	37.84	-25.87	46.00	8.16	181	29	Vertical

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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:

Above 1GHz 74(dB $\mu$ V/m) peak, 54(dB $\mu$ V/m) average

Detector: Peak for pre-scan (1000kHz resolution bandwidth) 1000M to18000MHz

### 2.3.1 E.U.T. Operation

Operating Environment:

Temperature: 21.7 °C Humidity: 56.4 % RH Atmospheric Pressure: 1010 mbar

Pretest these modes to find the worst case: a: WCDMA Band V Idle + GPS Rx + earphone1+ battery1+ adapter1

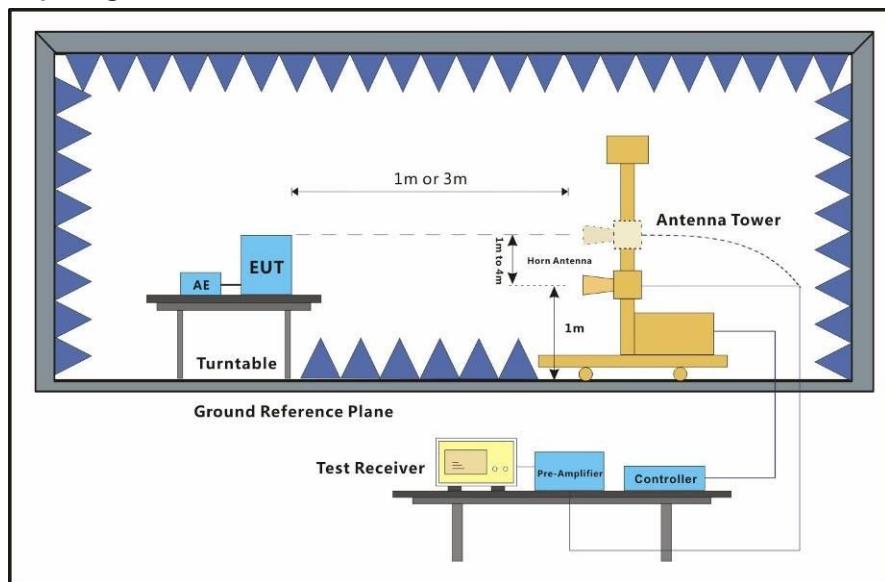
b: LTE Band 5 Idle + GPS Rx + earphone(worst) + battery(worst) + adapter(worst)

c: LTE Band 12 Idle + GPS Rx + earphone(worst) + battery(worst) + adapter(worst)

d: LTE Band 13 Idle + GPS Rx + earphone(worst)+battery(worst) +adapter(worst)

The worst case for final test: b: LTE Band 5 Idle + GPS Rx + earphone(worst) + battery(worst) + adapter(worst)

### 2.3.2 Test Setup Diagram



### 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.



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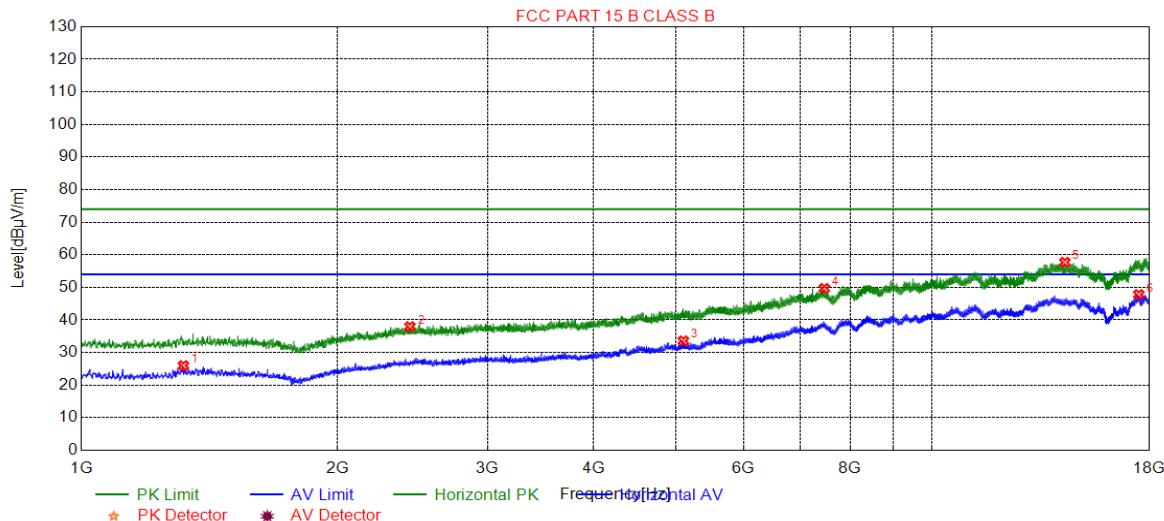
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Mode:b; Polarization:Horizontal

**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dB $\mu$ V/m]	Factor [dB]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1317.91	26.00	-30.68	54.00	28.00	227	3	Horizontal
2	2433.17	37.96	-26.28	74.00	36.04	167	78	Horizontal
3	5098.05	33.60	-17.25	54.00	20.40	152	193	Horizontal
4	7464.57	49.70	-9.82	74.00	24.30	237	281	Horizontal
5	14312.5	57.72	1.86	74.00	16.28	238	16	Horizontal
6	17480.6	47.82	1.39	54.00	6.18	109	91	Horizontal

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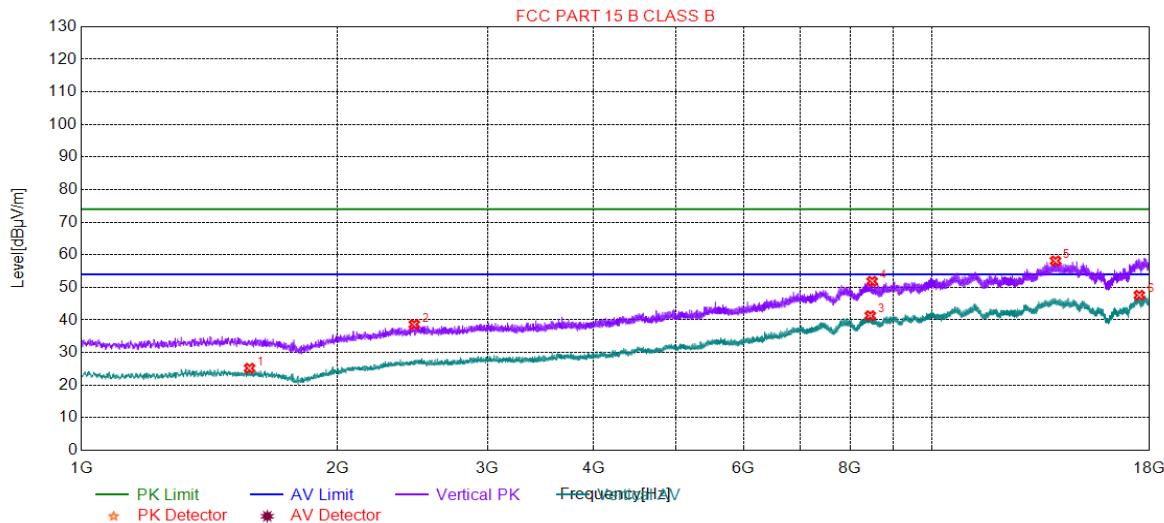
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Mode:b; Polarization:Vertical

**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dB $\mu$ V/m]	Factor [dB]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1576.32	25.21	-30.35	54.00	28.79	235	154	Vertical
2	2461.22	38.63	-26.10	74.00	35.37	209	3	Vertical
3	8453.17	41.32	-7.68	54.00	12.68	232	205	Vertical
4	8495.67	51.88	-7.60	74.00	22.12	160	358	Vertical
5	13953.7	58.15	2.21	74.00	15.85	288	268	Vertical
6	17504.4	47.61	1.61	54.00	6.39	236	205	Vertical

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### 3 Equipment List

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020-09-11	2021-09-10
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2020-08-04	2021-08-03
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2019-12-06	2020-12-05
Measurement Software	Tonscend	TS+ CE V2.5	XAW02-05-02	NCR	NCR
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2020-04-02	2021-04-01

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RE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2020-04-02	2021-04-01
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020-09-11	2021-09-10
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2019-10-13	2021-10-12
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2019-10-13	2021-10-12
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2019-10-13	2021-10-12
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	TAP00903040	XAW01-41-01	2019-11-18	2020-11-17
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2019-11-18	2020-11-17
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2019-12-03	2020-12-02
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2019-11-18	2020-11-17
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2019-12-06	2020-12-05
Measurement Software	Tonscend	TS+ RSE V3.0.0.2	XAW02-05-01	NCR	NCR
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2020-04-02	2021-04-01

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## 4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
		± 4.8dB (Below 1GHz)
2	Radiated Emission	± 4.8dB (1GHz to 6GHz)
		± 4.5dB (6GHz to 18GHz)
		± 5.02dB (Above 18GHz)

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## 5 Photographs

### 5.1 Test Setup

Refer to Appendix A - Photographs of Set-Up for HR/2020/90016.

### 5.2 EUT Constructional Details (EUT Photos)

Refer to Photographs of EUT Constructional Details

- End of the Report -

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