

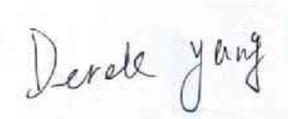
TEST REPORT

Application No.: ZR/2020/60015
Applicant: LG Electronics USA, Inc.
Address of Applicant: 111 Sylvan Avenue, North Building Englewood Cliffs, NJ 07632
Manufacturer: Huaqin Telecom Technology Co.,Ltd.
Address of Manufacturer: No.1 Building, No.9 Building, No.399,Keyuan Road,Zhangjiang Hi-tech Park,Shanghai,P.R.China
EUT Description: Mobile handset
Model No.: LM-K420HMW, LM-K420HM
Trade Mark: LG
FCC ID: ZNFK420HMW
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2020/6/22
Date of Test: 2020/7/22 to 2020/7/29
Date of Issue: 2020/8/12

Test Result:	Pass*
---------------------	--------------

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

Authorized Signature:



Derek Yang

Wireless Laboratory Manager

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<i>Revision Record</i>				
<i>Version</i>	<i>Chapter</i>	<i>Date</i>	<i>Modifier</i>	<i>Remark</i>
01		2020/8/12		Original

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Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
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

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

Checked By

David Chen

David Chen
Reviewer

Test By

Daniel Wang

Daniel Wang
Project Engineer

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1 General Information

Product Name:	Mobile handset		
Model No.(EUT):	LM-K420HMW, LM-K420HM		
Trade Mark:	LG		
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 7	2500~2570	2620~2690
	LTE Band 12	699~716	729~746
	LTE Band 13	777~787	746~756
	LTE Band 17	704~716	734~746
	LTE Band 66	1710~1780	2110~2180
	WIFI 2.4G	2412~2472	2412~2472
BT	2402~2480	2402~2480	
FM	/	88~108	
GNSS(GPS/BDS/GLONASS/Galileo)	/	1559~1610	
Adaptor Information 1#:	Model:	MCS-V02WR	
	SEC:	5V/2A	
	Manufacturer:	Sunlin	
Adaptor Information 2#:	Model:	MCS-V02WA2	
	SEC:	5V/2A	
	Manufacturer:	Aohai	
Adaptor Information 3#:	Model:	MCS-V02WH	
	SEC:	5V/2A	
	Manufacturer:	Pihong	
Battery Information 1#:	Model:	BL-T51	
	Normal Voltage:	+3.87V	
	Rated capacity:	3900mAh	
	Manufacturer:	ATL	
USB cable Information1#:	Model:	DC15WB-G	

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USB cable Information2#:	Manufacturer:	Ningbo Broad Telecommunication Co., Ltd
	Model:	DC15WX-G
	Manufacturer:	ASAP Technology(Jiangxi)Co.,Ltd

1.1 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	T430u	REF. No.SEA1800
Mouse	Lenovo	M-U0025-O	REF. No.:SEA2400
Router	NETGEAR	DGN2200	REF. No.SEA2200

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1.2 Test Location

All tests were performed at:

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Xi'an Branch
Address:	Single floor D, building 1, Kanghong orange square science and technology park, No.137 keyuan 3rd road, fengdong new town, Xi 'an city, Shaanxi China
Post code:	710000
Telephone:	+86 (0) 29 6282 7885
Fax:	+86 (0) 29 6282 7885
E-mail:	ee.xian@sgs.com

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 CO., LTD. XIAN BRANCH is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

Test Site No.:	SGS Xian Site No.		FCC Designation No.
	CO01-XA	03CH01-XA	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: Transfer data between the EUT and the PC+USB cable1
- b: Transfer data between the EUT and the PC+USB cable2
- c: GSM 850 Idle+BT+WLAN +GPS Rx+playing MP4 (SD card)
+earphone1+battery1+Cable(worst)+adapter1
- d: WCDMA Band V Idle+BT+WLAN +GPS Rx+playing MP4 (SD card)
+earphone2+battery2+Cable(worst)+adapter2
- e: LTE Band 5 Idle+BT+WLAN +GPS Rx+camera (Front)
+earphone(worst)+battery(worst)+ Cable(worst)+adapter3
- f: LTE Band 12 Idle +BT+WLAN +GPS Rx+camera (Back)
+earphone(worst)+battery(worst)+ Cable(worst)+ (worst)
- g: LTE Band 13 Idle +BT+WLAN +GPS Rx+earphone(worst)+battery(worst)+
Cable(worst)+ (worst)
- h: LTE Band 17 Idle +BT+WLAN +GPS Rx+earphone(worst)+battery(worst)+
Cable(worst)+adapter(Worst)
- f: LTE Band 12 Idle +BT+WLAN +GPS Rx+camera (Back)
+earphone(worst)+battery(worst)+ Cable(worst)+ (worst)

The worst case for final test:

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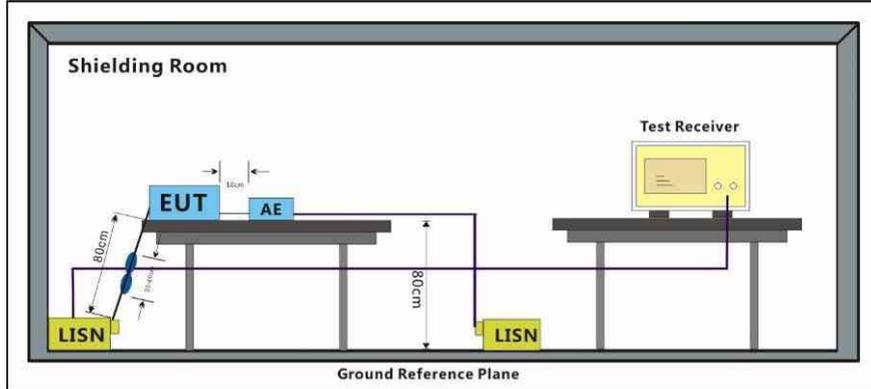
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2.1.2 Test Setup Diagram



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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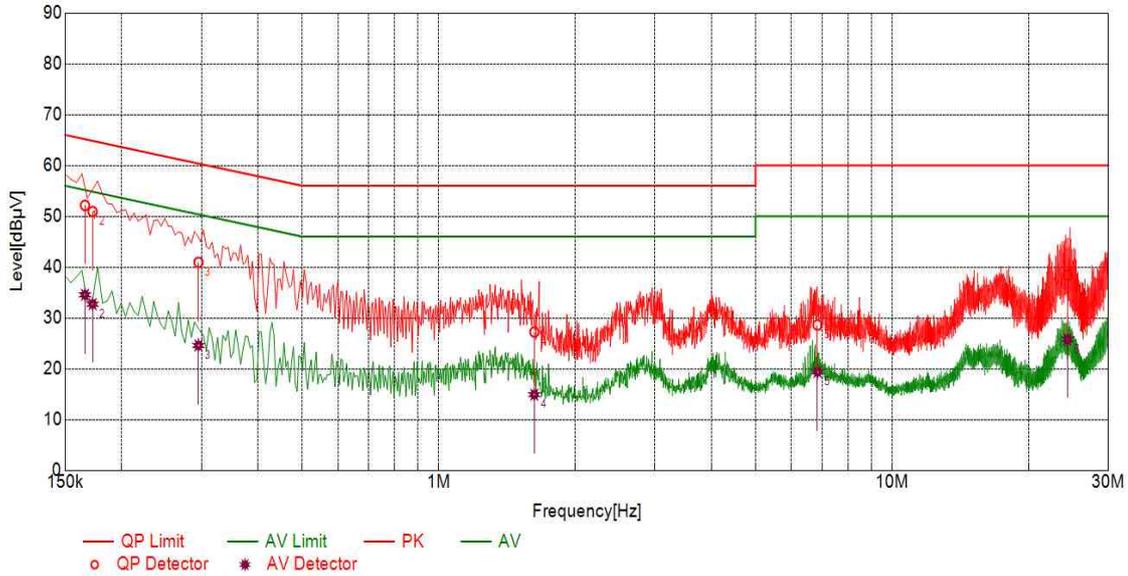
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Mode:f; Line:Live Line



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]	Type
1	0.1660	10.10	52.15	65.16	13.01	34.55	55.16	20.61	L
2	0.1726	10.10	50.92	64.84	13.92	32.72	54.84	22.12	L
3	0.2954	10.10	40.94	60.37	19.43	24.58	50.37	25.79	L
4	1.6262	10.10	27.24	56.00	28.76	14.91	46.00	31.09	L
5	6.8479	10.10	28.61	60.00	31.39	19.38	50.00	30.62	L
6	24.3792	10.11	38.42	60.00	21.58	25.79	50.00	24.21	L

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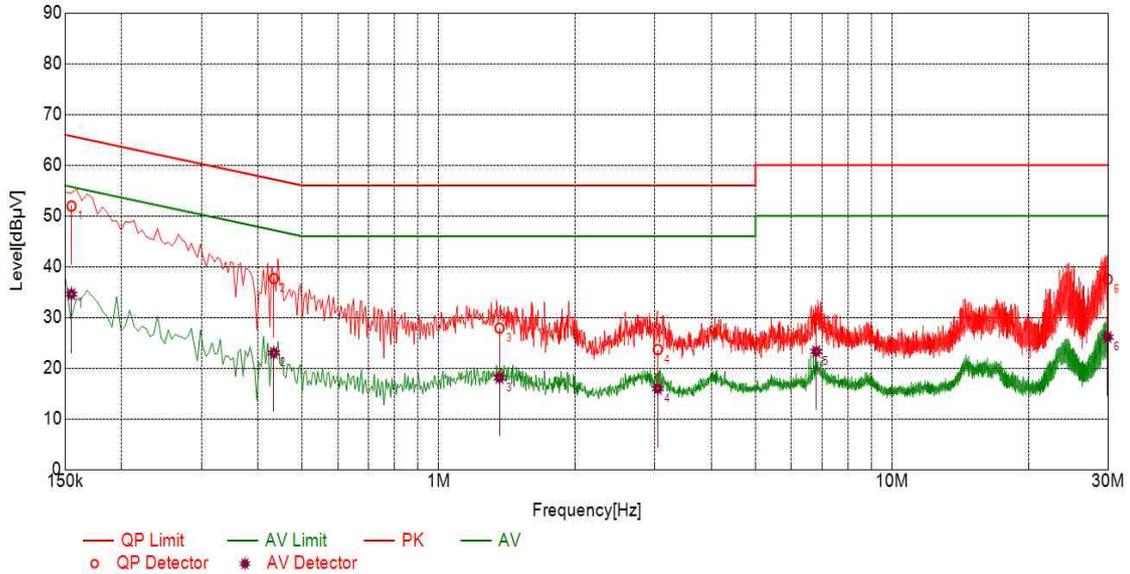
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Test Graph

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]	Type
1	0.1550	10.10	51.95	65.73	13.78	34.58	55.73	21.15	N
2	0.4331	10.10	37.66	57.19	19.53	23.00	47.19	24.19	N
3	1.3627	10.10	27.90	56.00	28.10	18.10	46.00	27.90	N
4	3.0443	10.10	23.67	56.00	32.33	15.96	46.00	30.04	N
5	6.8069	10.10	29.66	60.00	30.34	23.29	50.00	26.71	N
6	29.8813	10.11	37.52	60.00	22.48	26.13	50.00	23.87	N

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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(dBμV/m) quasi-peak
88MHz-216MHz 43.5(dBμV/m) quasi-peak
216MHz-960MHz 46.0(dBμV/m) quasi-peak
960MHz-1000MHz 54.0(dBμV/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: Transfer data between the EUT and the PC+USB cable1
b: Transfer data between the EUT and the PC+USB cable2
c: GSM 850 Idle+BT+WLAN +GPS Rx+playing MP4 (SD card)
+earphone1+battery1+Cable(worst)+adapter1
d: WCDMA Band V Idle+BT+WLAN +GPS Rx+playing MP4 (SD card)
+earphone2+battery2+Cable(worst)+adapter2
e: LTE Band 5 Idle+BT+WLAN +GPS Rx+camera (Front)
+earphone(worst)+battery(worst)+ Cable(worst)+adapter3
f: LTE Band 12 Idle +BT+WLAN +GPS Rx+camera (Back)
+earphone(worst)+battery(worst)+ Cable(worst)+ (worst)
g: LTE Band 13 Idle +BT+WLAN +GPS Rx+earphone(worst)+battery(worst)+
Cable(worst)+ (worst)
h: LTE Band 17 Idle +BT+WLAN +GPS Rx+earphone(worst)+battery(worst)+
Cable(worst)+adapter(Worst)

The worst case for final test: a: Transfer data between the EUT and the PC+USB cable1

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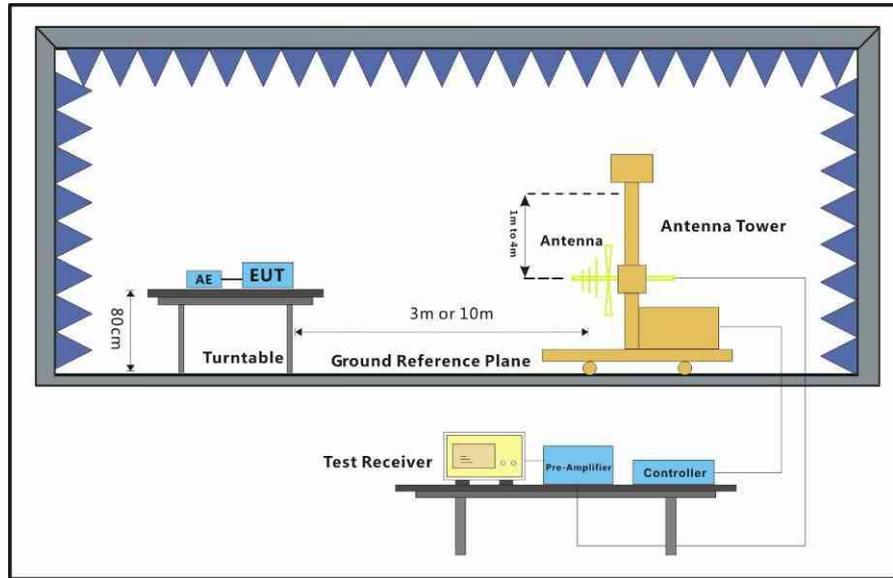
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2.2.2 Test Setup Diagram



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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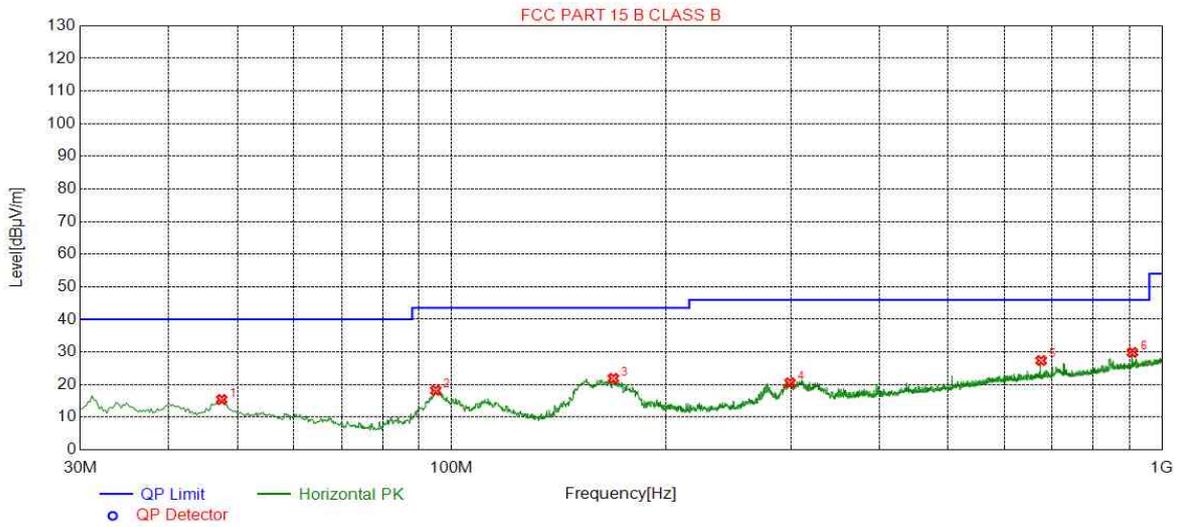
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Mode:a; Polarization:Horizontal



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	47.4635	15.44	-30.40	40.00	24.56	200	297	Horizontal
2	95.0030	18.22	-32.89	43.50	25.28	200	250	Horizontal
3	168.931	21.93	-34.10	43.50	21.57	100	218	Horizontal
4	299.519	20.58	-28.28	46.00	25.42	100	75	Horizontal
5	675.955	27.40	-19.76	46.00	18.60	200	250	Horizontal
6	908.607	29.88	-15.94	46.00	16.12	200	110	Horizontal

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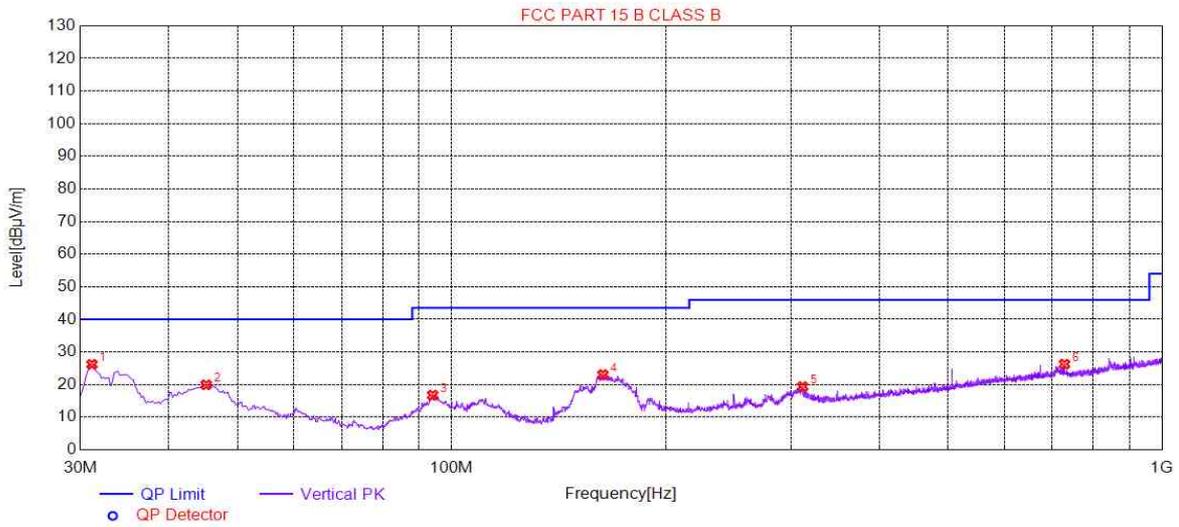
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Mode:a; Polarization:Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	31.1642	26.23	-30.05	40.00	13.77	100	277	Vertical
2	45.1350	19.95	-30.43	40.00	20.05	100	292	Vertical
3	94.0328	16.79	-33.05	43.50	26.71	100	78	Vertical
4	163.304	23.09	-34.44	43.50	20.41	100	344	Vertical
5	311.938	19.38	-27.93	46.00	26.62	100	360	Vertical
6	728.927	26.29	-18.83	46.00	19.71	200	149	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(dBμV/m) peak, 54(dBμV/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: Transfer data between the EUT and the PC+USB cable1
b: Transfer data between the EUT and the PC+USB cable2
c: GSM 850 Idle+BT+WLAN +GPS Rx+playing MP4 (SD card) +earphone1+battery1+Cable(worst)+adapter1
d: WCDMA Band V Idle+BT+WLAN +GPS Rx+playing MP4 (SD card) +earphone2+battery2+Cable(worst)+adapter2
e: LTE Band 5 Idle+BT+WLAN +GPS Rx+camera (Front) +earphone(worst)+battery(worst)+ Cable(worst)+adapter3
f: LTE Band 12 Idle +BT+WLAN +GPS Rx+camera (Back) +earphone(worst)+battery(worst)+ Cable(worst)+ (worst)
g: LTE Band 13 Idle +BT+WLAN +GPS Rx+earphone(worst)+battery(worst)+ Cable(worst)+ (worst)
h: LTE Band 17 Idle +BT+WLAN +GPS Rx+earphone(worst)+battery(worst)+ Cable(worst)+adapter(Worst)
The worst case for final test: f: LTE Band 12 Idle +BT+WLAN +GPS Rx+camera (Back) +earphone(worst)+battery(worst)+ Cable(worst)+ (worst)

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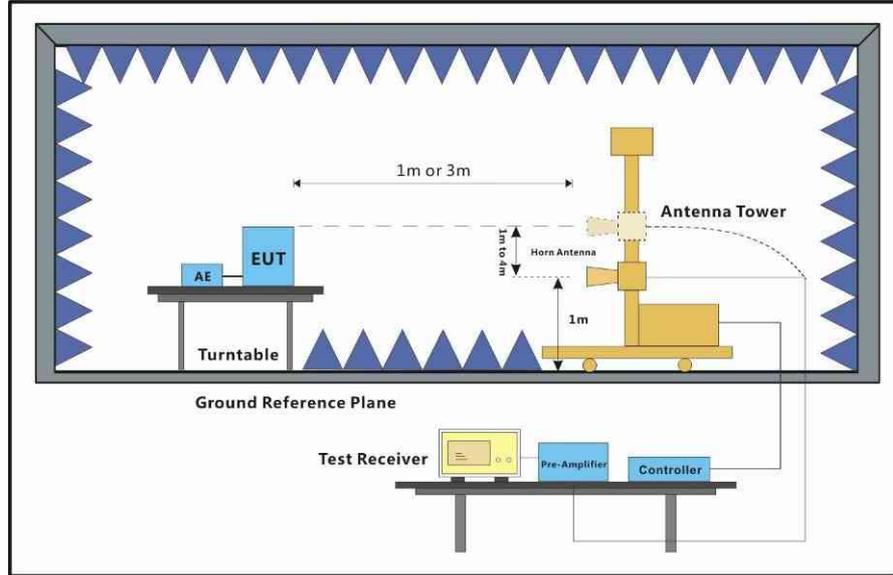
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2.3.2 Test Setup Diagram



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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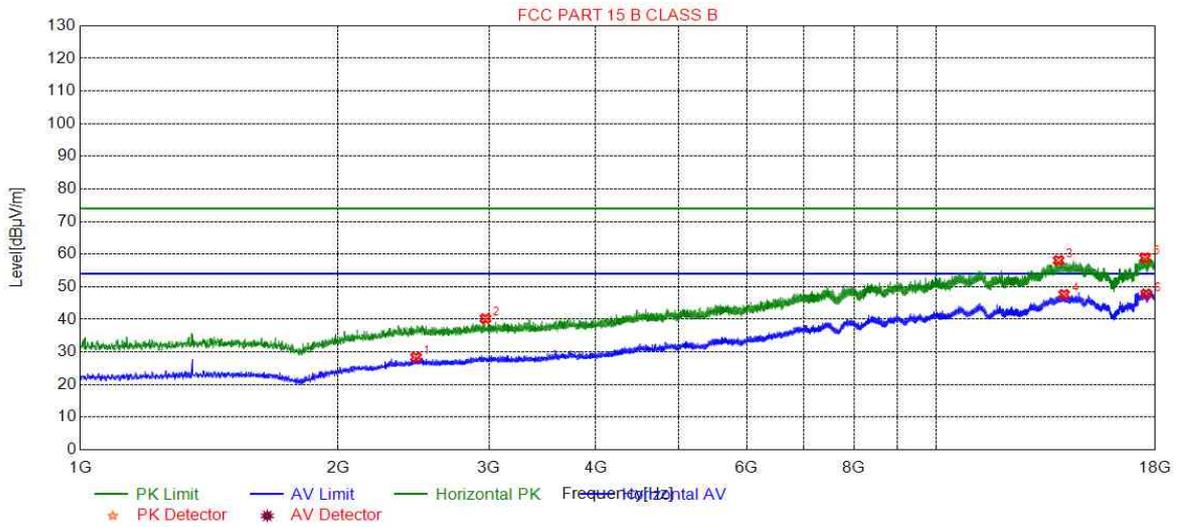
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Mode:f; Polarization:Horizontal



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2466.32	28.42	-26.07	54.00	25.58	100	316	Horizontal
2	2972.09	40.25	-24.58	74.00	33.75	100	53	Horizontal
3	13874.7	58.10	2.07	74.00	15.90	100	53	Horizontal
4	14081.3	47.68	2.34	54.00	6.32	100	128	Horizontal
5	17505.2	58.90	1.61	74.00	15.10	100	128	Horizontal
6	17557.9	47.83	1.28	54.00	6.17	100	203	Horizontal

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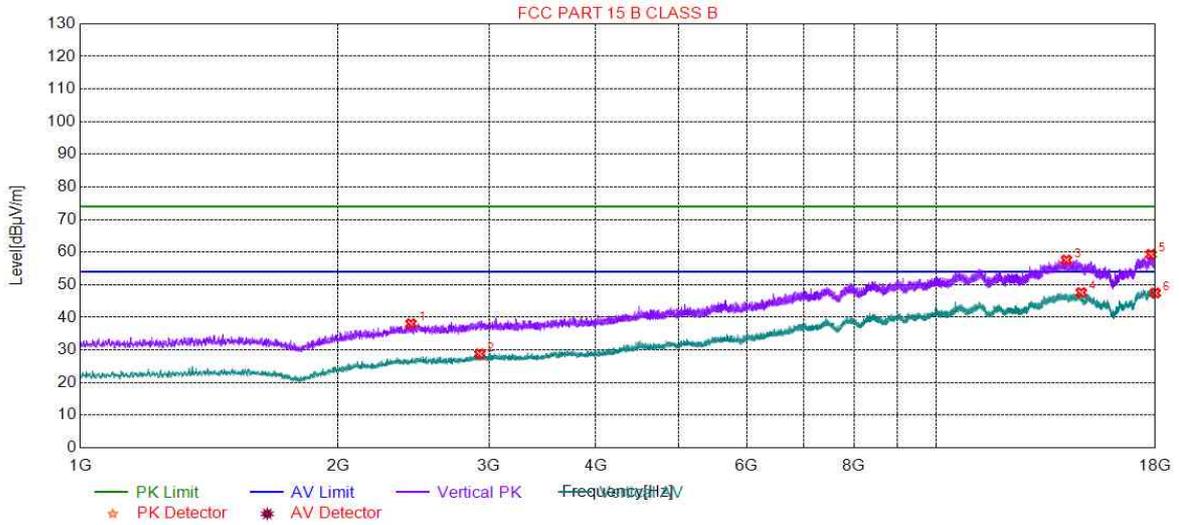
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Mode:f; Polarization:Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2433.17	38.06	-26.28	74.00	35.94	100	157	Vertical
2	2927.89	28.81	-24.69	54.00	25.19	100	195	Vertical
3	14172.2	57.59	2.15	74.00	16.41	100	43	Vertical
4	14747.7	47.61	1.71	54.00	6.39	100	6	Vertical
5	17786.6	59.34	0.74	74.00	14.66	100	195	Vertical
6	17993.1	47.48	-0.28	54.00	6.52	100	43	Vertical

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3 Equipment List

Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
Semi-Anechoic Chamber	Brilliant-emc	966	XAW03-35-01	NCR	NCR
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2020/4/2	2021/4/2
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2020/4/2	2021/4/2
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2019/9/7	2020/9/6
Receiving antenna	Rosenberger	VULB 9163	XAW01-09-01	2019/10/13	2021/10/12
Receiving antenna	Rosenberger	BBHA 9120D	XAW01-09-02	2019/10/13	2021/10/12
Receiving antenna	Rosenberger	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	2020/11/18
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2019/11/18	2020/11/18
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2019/12/3	2020/12/3
Amplifier	Brilliant-emc	YX28980930	XAW01-41-06	2019/11/18	2020/11/18
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-19-02	2019-09-16	2020-09-15

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Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.4dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8dB (30MHz-1GHz)
		± 5.2dB (1GHz-6GHz)
		± 5.5dB (6GHz-18GHz)
		± 5.02dB (18GHz-40GHz)

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Photographs

5.1 Test Setup Photos

Refer to Photographs of Appendix A - Photographs of Set-Up for ZR/2020/60015

5.2 EUT Constructional Details (EUT Photos)

Refer to Photographs of EUT Constructional Details

- End of the Report -

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