

TEST REPORT

Application No: ZR/2020/90032
Applicant: Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd
Address of Applicant: Floor 21, Block A, Coolpad Building, Intersection of Keyuan Avenue and Baoshen Road, North High-Tech Industrial Park, Nanshan District, Shenzhen
Manufacturer: Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd
Address of Manufacturer: Floor 21, Block A, Coolpad Building, Intersection of Keyuan Avenue and Baoshen Road, North High-Tech Industrial Park, Nanshan District, Shenzhen
EUT Description: Mobile Hotspot
Model No.: CP337AS
Trade Mark: coolpad
FCC ID: R38YLCP337AS
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2020/10/8
Date of Test: 2020/10/21 to 2020/12/31
Date of Issue: 2021/8/15

Test Result:	Pass*
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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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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021/1/5		Original
02		2021/5/29	Leah Chen	1. Modify data conversion error of antenna height 2. Updated equipment list
03		2021/8/15	Leah Chen	1. Updated Support Units, Test facility and Test Location

This report supersedes our previous report ZR/2020/9003204, issued on 2021-01-05, which is hereby deemed null and void.

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



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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



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1 General Information

Product Name:	Mobile Hotspot		
Model No.(EUT):	CP337AS		
Trade Mark:	coolpad		
Hardware Version:	P3		
Software Version:	3.18.054.P3.201216.CP337AS		
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 5	824~849	869~894
	LTE Band 12	699~716	729~746
	LTE Band 13	777~787	746~756
	LTE Band 14	788~798	746~756
	LTE Band 25	1850~1915	1930~1995
	LTE Band 26	814~849	859~894
	LTE Band 41	2496~2690	2496~2690
	LTE Band 66	1710~1780	2110~2200
	LTE Band 71	663~698	617~652
	LTE Band CA_41C	2496-2690	2496-2690
	Wi-Fi 2.4G	2412~2472	2412~2472
Wi-Fi 5G	5150~5850	5150~5850	



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Accessory:

Battery			
Battery1	Jiade Energy	CPLD-440	3.87V; 3920mAh
Battery2	Ganfeng	CPLD-440	3.87V; 3920mAh
Adapter			
Adapter1 (US)	SHENZHEN RUIDE ELECTRONIC INDUSTRIAL CO.,LTD	Q3W18-1U-A	Input:100-240V~50/60Hz,0.5A MAX Output:5V/3A,9V/2A,12V/1.5A
Adapter2 (US)	SHENZHEN KOSUN INDUSTRIAL CO., LTD.	619043	Input:100-240V~50/60Hz,0.5A MAX Output:5V/3A,9V/2A,12V/1.5A
USB cable			
USB cable1	Leagtech Electric Co.,LTD	LS-KP002	/
USB cable2	Shenzhen Saibao Communication industrial Co.,Ltd	SYL-A147A	

EUT1: Main Supply EUT

Part Name	Model Name	supplier	Remark
Battery	CPLD-440	Jiade	
Memory	FS702B2R1DH2A2KDE	FORESEE	
PCB	CP337AS MAINBOARD P3-ZH	Zhihao	

EUT2: Secondary Supply EUT

Part Name	Model Name	supplier	Remark
Battery	CPLD-440	Ganfeng	
Memory	NM1282KSLAXAL-3B	Nanya	
PCB	CP337AS MAINBOARD P3_SUNTAK	Suntak	



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1.1 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Router	NETGEAR	R6020	No.XA1401
Computer	Lenovo	L480	No.XA1402
Mouse	A4TECH	OP-520NU USB	No.XA1403

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 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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SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.
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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 EUT1 and the PC+ Cable1
- b: Transfer data between the EUT1 and the PC+ Cable2
- c: GSM 850 Idle+ EUT1 +2.4G WLAN +battery1+usb cable(worst)+adapter1
- d: WCDMA Band V Idle+ EUT1 +2.4G WLAN +battery1+usb cable(worst)+adapter2
- e: LTE Band 5 Idle + EUT1 +2.4G WLAN+ battery1 +usb cable(worst)+adapter(worst)
- f: LTE Band 12 Idle+ EUT1 +5G WLAN +battery1 +usb cable(worst)+adapter(worst)
- g: LTE Band 13 Idle + EUT1+2.4G WLAN +battery1 +usb cable(worst)+adapter(worst)
- h: LTE Band 14 Idle + EUT1+2.4G WLAN +battery1 +usb cable(worst)+adapter(worst)
- i: LTE Band 26 Idle + EUT1 +5G WLAN +battery1 +usb cable(worst)+adapter(worst)
- j: LTE Band 5 Idle + EUT2 +2.4G WLAN+ battery2 +usb cable(worst)+adapter(worst)

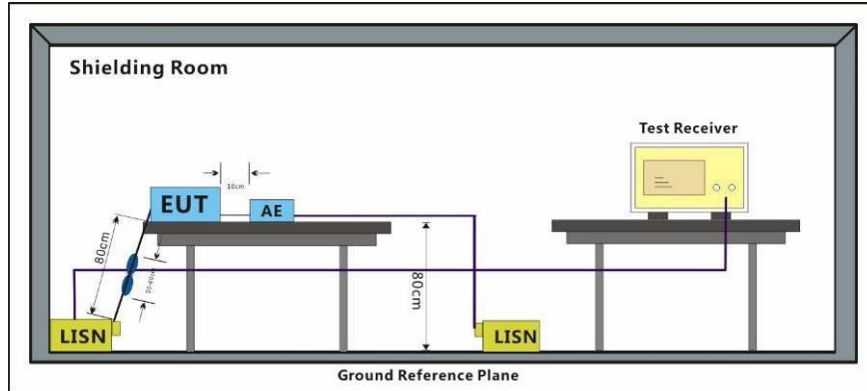
The worst case for final test:

- e: LTE Band 5 Idle + EUT1 +2.4G WLAN+ battery1 +usb cable(worst)+adapter(worst)



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2.1.2 Test Setup Diagram



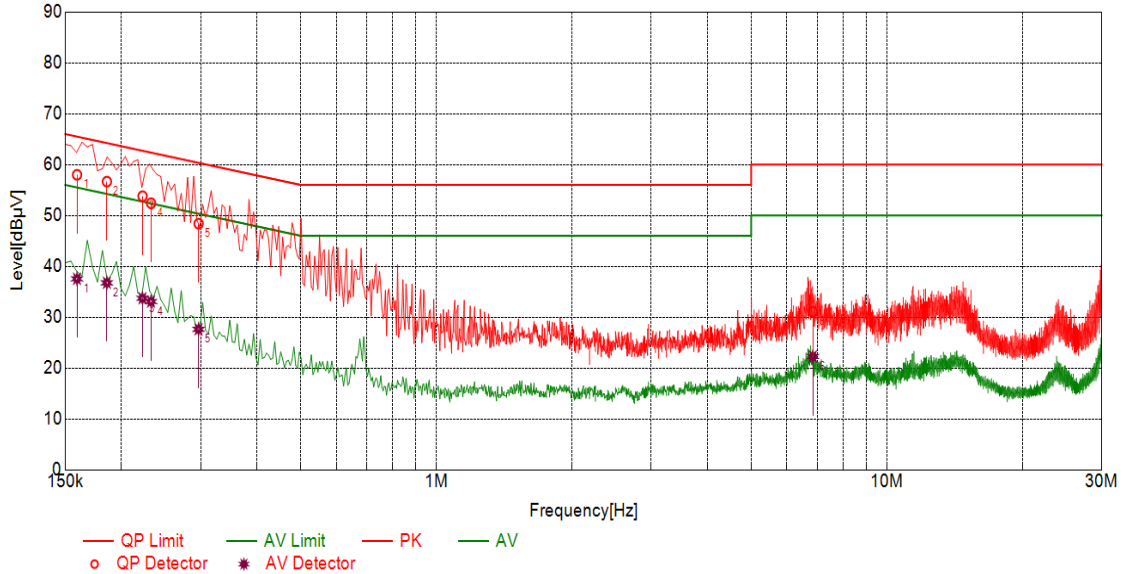
2.1.3 Measurement Data

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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Mode:d; Line:Live Line



Test Graph

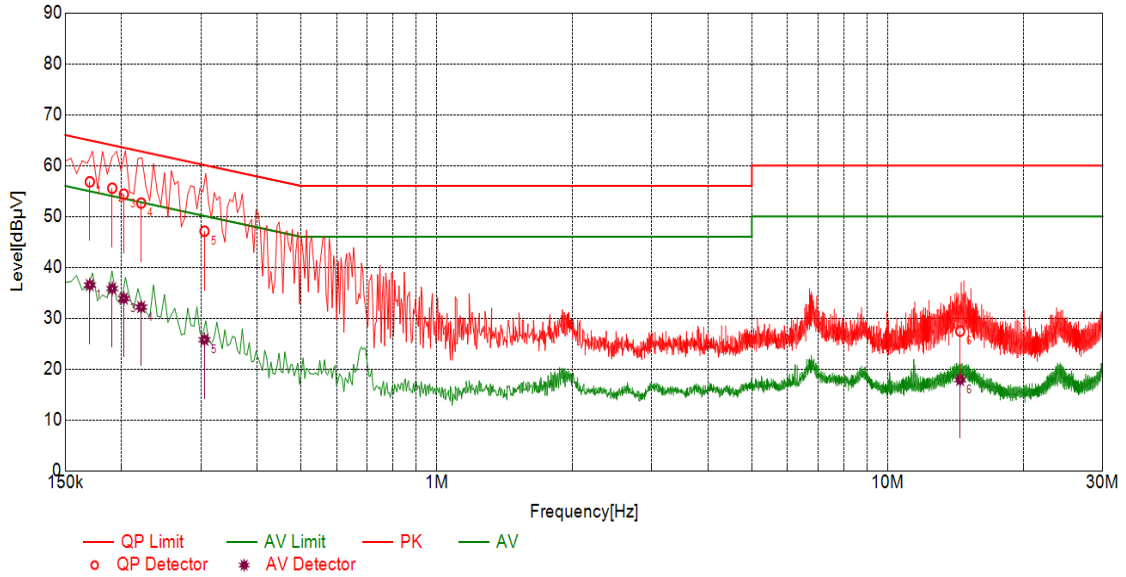
Final Data List

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	0.1594	10.10	57.99	65.49	7.50	37.54	55.49	17.95	L
2	0.1857	10.10	56.66	64.22	7.56	36.76	54.22	17.46	L
3	0.2228	10.10	53.79	62.71	8.92	33.71	52.71	19.00	L
4	0.2327	10.10	52.40	62.35	9.95	33.07	52.35	19.28	L
5	0.2967	10.10	48.39	60.33	11.94	27.62	50.33	22.71	L
6	6.8521	10.10	31.08	60.00	28.92	22.28	50.00	27.72	L



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Mode:d; 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]	Type
1	0.1701	10.10	56.81	64.96	8.15	36.52	54.96	18.44	N
2	0.1907	10.10	55.55	64.01	8.46	35.82	54.01	18.19	N
3	0.2024	10.10	54.37	63.51	9.14	33.87	53.51	19.64	N
4	0.2211	10.10	52.63	62.78	10.15	32.18	52.78	20.60	N
5	0.3055	10.10	47.10	60.09	12.99	25.76	50.09	24.33	N
6	14.4837	10.11	27.46	60.00	32.54	17.89	50.00	32.11	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 EUT1 and the PC+ Cable1
- b: Transfer data between the EUT1 and the PC+ Cable2
- c: GSM 850 Idle+ EUT1 +2.4G WLAN +battery1+usb cable(worst)+adapter1
- d: WCDMA Band V Idle+ EUT1 +2.4G WLAN +battery1+usb cable(worst)+adapter2
- e: LTE Band 5 Idle + EUT1 +2.4G WLAN+ battery1 +usb cable(worst)+ adapter(worst)
- f: LTE Band 12 Idle+ EUT1 +5G WLAN +battery1 +usb cable(worst)+ adapter(worst)
- g: LTE Band 13 Idle + EUT1+2.4G WLAN +battery1 +usb cable(worst)+ adapter(worst)
- h: LTE Band 14 Idle + EUT1+2.4G WLAN +battery1 +usb cable(worst)+ adapter(worst)
- i: LTE Band 26 Idle + EUT1 +5G WLAN +battery1 +usb cable(worst)+ adapter(worst)
- j: LTE Band 5 Idle + EUT2 +2.4G WLAN+ battery2 +usb cable(worst)+ adapter(worst)

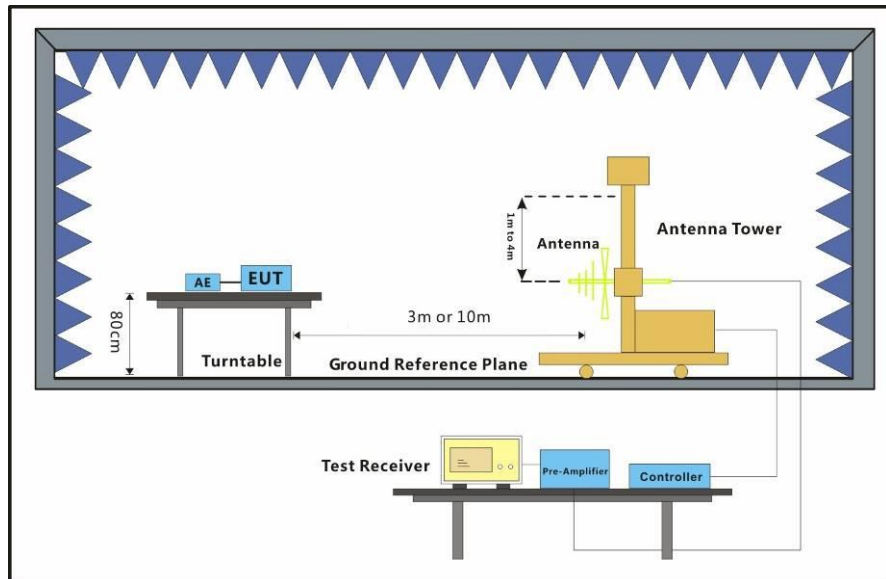
The worst case for final test:

- e: LTE Band 5 Idle + EUT1 +2.4G WLAN+ battery1 +usb cable(worst)+ adapter(worst)



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2.2.2 Test Setup Diagram



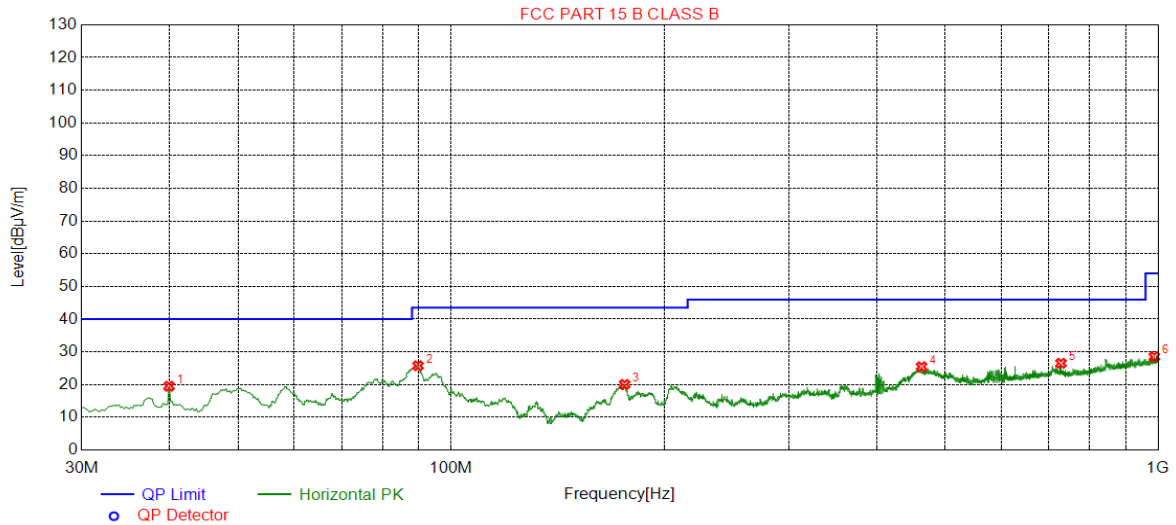
2.2.3 Measurement Data

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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Mode:d; Polarization:Horizontal



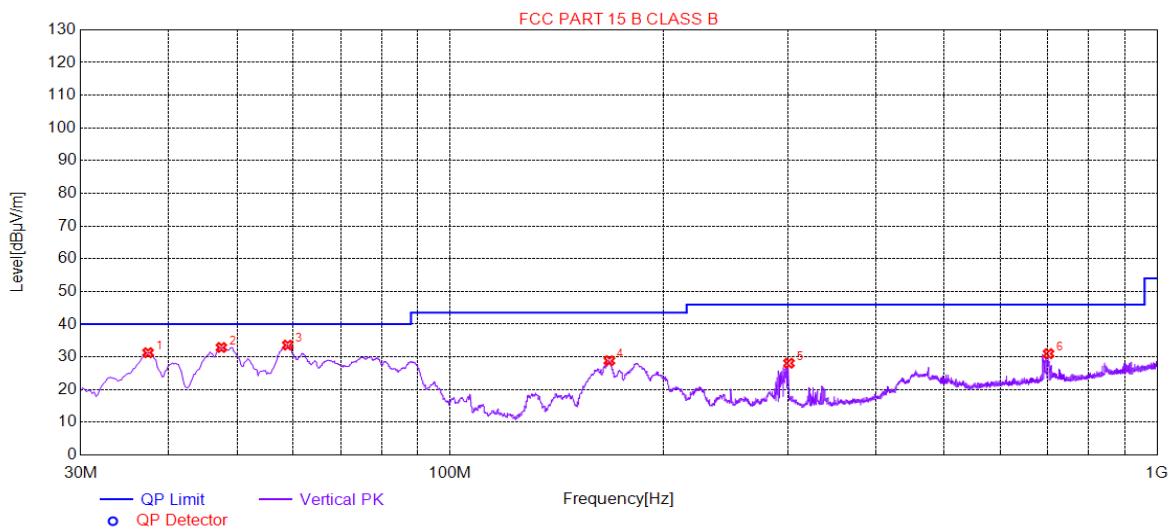
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	39.8960	19.51	-28.37	40.00	20.49	169	219	Horizontal
2	89.7640	25.76	-33.77	43.50	17.74	141	335	Horizontal
3	175.917	20.06	-33.60	43.50	23.44	109	26	Horizontal
4	462.900	25.47	-24.16	46.00	20.53	142	128	Horizontal
5	728.733	26.53	-18.83	46.00	19.47	179	239	Horizontal
6	988.163	28.54	-14.95	54.00	25.46	182	120	Horizontal



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Mode:d; Polarization:Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	37.3735	31.29	-29.19	40.00	8.71	289	14	Vertical
2	47.4635	32.89	-30.40	40.00	7.11	245	14	Vertical
3	58.9118	33.61	-31.70	40.00	6.39	180	339	Vertical
4	167.961	28.84	-34.16	43.50	14.66	232	325	Vertical
5	301.460	28.07	-28.22	46.00	17.93	187	48	Vertical
6	702.150	30.98	-19.46	46.00	15.02	173	245	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) 100M 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:

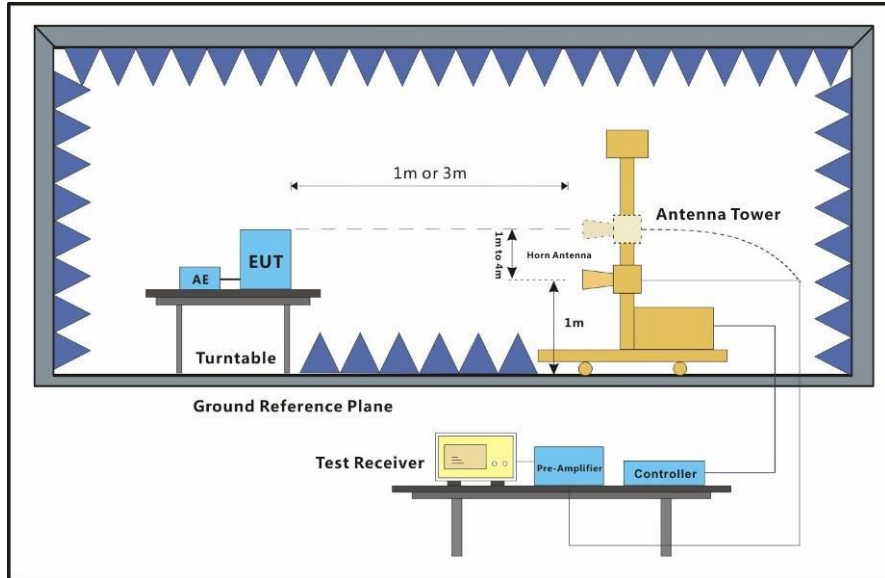
- a: Transfer data between the EUT1 and the PC+ Cable1
- b: Transfer data between the EUT1 and the PC+ Cable2
- c: GSM 850 Idle+ EUT1 +2.4G WLAN +battery1+usb cable(worst)+adapter1
- d: WCDMA Band V Idle+ EUT1 +2.4G WLAN +battery1+usb cable(worst)+adapter2
- e: LTE Band 5 Idle + EUT1 +2.4G WLAN+ battery1 +usb cable(worst)+adapter(worst)
- f: LTE Band 12 Idle+ EUT1 +5G WLAN +battery1 +usb cable(worst)+adapter(worst)
- g: LTE Band 13 Idle + EUT1+2.4G WLAN +battery1 +usb cable(worst)+adapter(worst)
- h: LTE Band 14 Idle + EUT1+2.4G WLAN +battery1 +usb cable(worst)+adapter(worst)
- i: LTE Band 26 Idle + EUT1 +5G WLAN +battery1 +usb cable(worst)+adapter(worst)
- j: LTE Band 5 Idle + EUT2 +2.4G WLAN+ battery2 +usb cable(worst)+adapter(worst)

The worst case for final test: e: LTE Band 5 Idle + EUT1 +2.4G WLAN+ battery1 +usb cable(worst)+adapter(worst)



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2.3.2 Test Setup Diagram



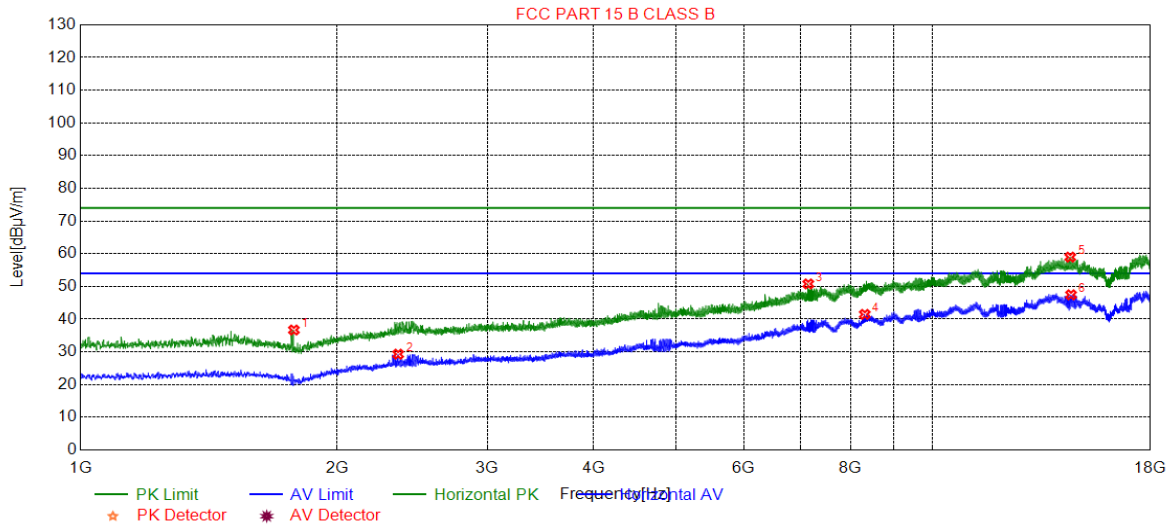
2.3.3 Measurement Data

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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Mode:d; Polarization:Horizontal



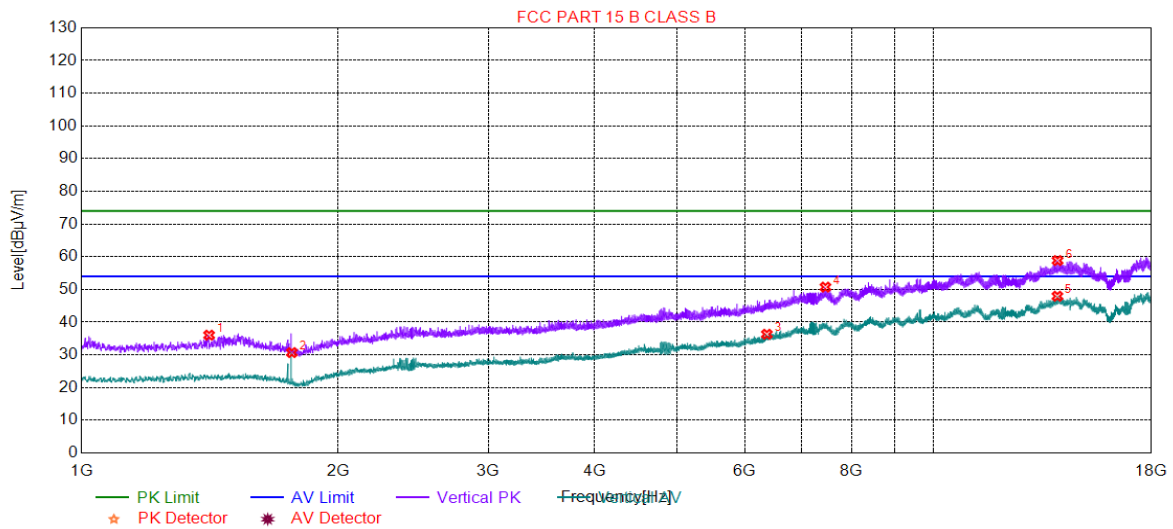
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1779.48	36.70	-32.10	74.00	37.30	240	230	Horizontal
2	2358.36	29.31	-26.64	54.00	24.69	222	40	Horizontal
3	7141.55	50.78	-10.58	74.00	23.22	139	3	Horizontal
4	8318.86	41.47	-7.75	54.00	12.53	159	3	Horizontal
5	14491.0	58.98	1.59	74.00	15.02	156	230	Horizontal
6	14522.4	47.45	1.56	54.00	6.55	182	243	Horizontal



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Mode:d; Polarization:Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1411.42	36.04	-30.31	74.00	37.96	163	130	Vertical
2	1765.03	30.71	-31.89	54.00	23.29	225	154	Vertical
3	6368.01	36.32	-13.72	54.00	17.68	221	356	Vertical
4	7460.32	50.73	-9.83	74.00	23.27	182	16	Vertical
5	13959.7	47.94	2.21	54.00	6.06	249	4	Vertical
6	13966.5	58.85	2.22	74.00	15.15	257	307	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
				2020-11-06	2021-11-05
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

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
				2020-10-26	2021-10-25
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2019-11-18	2020-11-17
				2020-10-26	2021-10-25
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2019-12-03	2020-12-02



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				2020-10-27	2021-10-26
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2019-11-18	2020-11-17
				2020-10-26	2021-10-25
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2019-12-06	2020-12-05
				2020-11-06	2021-11-05
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)
2	Radiated Emission	± 4.8dB (Below 1GHz)
		± 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 ZR/2020/90032.

5.2 EUT Constructional Details (EUT Photos)

Refer to Photographs of EUT Constructional Details

- End of the Report -



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Wireless Laboratory

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