

Report No.: SUHR/2022/1001107

Rev.: 01

Page: 1 of 29

# TEST REPORT

**Application No:** HR/2022/10011  
**Applicant:** HONOR Device Co., Ltd.  
**Address of Applicant:** Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China  
**Manufacturer:** HONOR Device Co., Ltd.  
**Address of Manufacturer:** Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China  
**EUT Description:** Smart Phone  
**Model No.:** ANY-NX1  
**Trade Mark:** HONOR  
**FCC ID:** 2AYGCANY-NX1  
**Standard(s) :** 47 CFR Part 15, Subpart B  
**Date of Receipt:** 2022/2/10  
**Date of Test:** 2022/3/2 to 2022/3/4  
**Date of Issue:** 2022/3/9

<b>Test Result:</b>	<b>Pass*</b>
---------------------	--------------

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

Authorized Signature:

Panta Sun

Panta Sun

Wireless Laboratory Manager



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Report No.: SUHR/2022/1001107

Rev.: 01

Page: 2 of 29

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/3/9		Original

<b>Prepared By</b>	 <hr/> <b>(Weller Liu) / Test Supervisor</b>
<b>Checked By</b>	 <hr/> <b>(Well Wei) / Reviewer</b>



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Report No.: SUHR/2022/1001107

Rev.: 01

Page: 3 of 29

## 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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Report No.: SUHR/2022/1001107

Rev.: 01

Page: 4 of 29

## Contents

1	GENERAL INFORMATION.....	5
1.1	DESCRIPTION OF SUPPORT UNITS .....	7
1.2	TEST LOCATION.....	7
1.3	TEST FACILITY .....	7
1.4	DEVIATION FROM STANDARDS .....	7
1.5	ABNORMALITIES FROM STANDARD CONDITIONS.....	7
2	EMISSION TEST RESULTS.....	8
2.1	CONDUCTED EMISSIONS AT MAINS TERMINALS (150KHZ-30MHZ) .....	8
2.1.1	E.U.T. Operation .....	8
2.1.2	Test Setup Procedures .....	9
2.1.3	Measurement Data .....	9
2.2	RADIATED EMISSIONS (30MHZ-1GHZ) .....	14
2.2.1	E.U.T. Operation .....	14
2.2.2	Test Setup Procedures .....	15
2.2.3	Measurement Data .....	15
2.3	RADIATED EMISSIONS (ABOVE 1GHZ).....	20
2.3.1	E.U.T. Operation .....	20
2.3.2	Test Setup Procedures .....	21
2.3.3	Measurement Data .....	21
3	EQUIPMENT LIST .....	26
4	MEASUREMENT UNCERTAINTY .....	28
5	PHOTOGRAPHS .....	29
5.1	TEST SETUP.....	29
5.2	EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS).....	29



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Report No.: SUHR/2022/1001107

Rev.: 01

Page: 5 of 29

## 1 General Information

EUT Description:	Smart Phone		
Model No.:	ANY-NX1		
Trade Mark:	HONOR		
Hardware Version:	HN3ANYM		
Software Version:	4.2.0.42(C900E42R1P3)		
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 V	824~849	869~894
	LTE Band 5	824~849	869~894
	LTE Band 7	2500~2570	2620~2690
	LTE Band 38	2570~2620	2570~2620
	LTE Band 41	2496~2690	2496~2690
	NR Band n7	2500~2570	2620~2690
	NR Band n38	2570~2620	2570~2620
	NR Band n41	2496~2690	2496~2690
	Wi-Fi 2.4G	2412~2462	2412~2462
	Bluetooth	2402~2480	2402~2480
	Wi-Fi 5G	5150~5850	5150~5850
	NFC	13.56	
	GNSS(GPS+Glonass + Beidou +Galileo)	1559~1610	
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Report No.: SUHR/2022/1001107

Rev.: 01

Page: 6 of 29

**Accessory:**

Adapter no.	Model no.	S/N	Manufacturer
1	HW-110600E00	\	Honor Device Co., Ltd. (Factory: Aste)
2	HW-110600B00	\	Honor Device Co., Ltd. (Factory: Aste)
3	HW-110600U00	YF91YCM3303397	Honor Device Co., Ltd. (Factory: Aste)
4	HN-110600E00	\	Honor Device Co., Ltd. (Factory: Aste)
5	HN-110600B00	\	Honor Device Co., Ltd. (Factory: Aste)
6	HN-110600U00	YK6301N2B00066	Honor Device Co., Ltd. (Factory: Aste)

Battery no.	Model no.	Description	Manufacturer
1	HB466596EFW	Rated Capacity: 4700mAh/18.18Wh	Honor Device Co., Ltd. (Factory: Desay)
2		Typical Capacity: 4800mAh/18.57Wh	Honor Device Co., Ltd. (Factory: SUCD)
3		Nominal Voltage: 3.87V Limited Charge Voltage: 4.45V	Honor Device Co., Ltd. (Factory: NVT)

USB cable no.	Model no.	Manufacturer
1	213-01011-0	MING JI ELECTRONICS CO., LTD.
2	L99UC139 - CS - H	LUXSHARE PRECISION INDUSTRY CO., LTD.

Earphone no.	Model no.	Manufacturer
1	MEND1532B528A11	Jiangxi Lianchuang Hongsheng Electronic Co., LTD.
2	EPAB542-2WH05-DH	FOXCONN INTERCONNECT TECHNOLOGY LIMITED
3	1293-3283-3.5mm-339	BOLUO COUNTY QUANCHENG ELECTRONIC CO., LTD.

Patch cord no.	Model no.	Manufacturer
1	USB042020090AW7	Jiangxi Lianchuang Hongsheng Electronic Co., LTD.



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Report No.: SUHR/2022/1001107

Rev.: 01

Page: 7 of 29

### 1.1 Description of Support Units

Description	Manufacturer	Model No.	Inventory No.
Router	Smauwave 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
Adaptor	Huawei	HW-050200C02	SUWI-03-33-06
Qualcomm*	Test Software	QRCT4	N/A
Remark: the information “*” are provided by client.			

### 1.2 Test Location

All tests were performed at:

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Weller Liu, King-p Li, Nature Shen, Tizzy Song

### 1.3 Test Facility

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

#### • A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

#### • Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

#### • FCC –Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327

### 1.4 Deviation from Standards

None

### 1.5 Abnormalities from Standard Conditions

None



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Report No.: SUHR/2022/1001107

Rev.: 01

Page: 8 of 29

## 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: 22~23°C

Humidity: 44~46% RH

Atmospheric Pressure: 101.0 kPa

Pretest these modes to find the worst case:

a.: Adaptor(1)+USB(1)+Battery(1)+BT Idle+WLAN(2.4G)+Camera(Front)+GSM850

b.: Adaptor(1)+USB(1)+Battery(1)+BT Idle+WLAN(5G)+Camera(Rear)+WCDMA 5

c.: Adaptor(1)+USB(1)+Battery(1)+BT Idle+WLAN(2.4G)+MP4+LTE Band 5

d.: Adaptor(1)+USB(1)+Battery(1)+BT Idle+WLAN(5G)+GPS RX+GSM1900

e.: Adaptor(1)+USB(1)+Battery(1)+BT Idle+WLAN(2.4G)+NFC ON+WCDMA 2

f.: Adaptor(1)+USB(2)+Battery(1)+BT Idle+WLAN(5G)+Camera(Front)+GSM850

g.: Adaptor(2)+USB(1)+Battery(1)+BT Idle+WLAN(2.4G)+Camera(Front)+GSM850

h.: Adaptor(1)+USB(1)+Battery(2)+BT Idle+WLAN(2.4G)+Camera(Front)+GSM850

i.: Adaptor(1)+USB(1)+Battery(3)+BT Idle+WLAN(5G)+Camera(Front)+GSM850

j.: Transfer data between the EUT and the PC+USB(1)+Battery(1)+WLAN(2.4G)+Camera(Front)+GSM850

k.: Transfer data between the EUT and the PC+USB(1)+Battery(1)+WLAN(5G)+Camera(Front)+GSM850

g.: Adaptor(2)+USB(1)+Battery(1)+BT Idle+WLAN(2.4G)+Camera(Front)+GSM850

j.: Transfer data between the EUT and the PC+USB(1)+Battery(1)+WLAN(2.4G)+Camera(Front)+GSM850

The worst case for final test:



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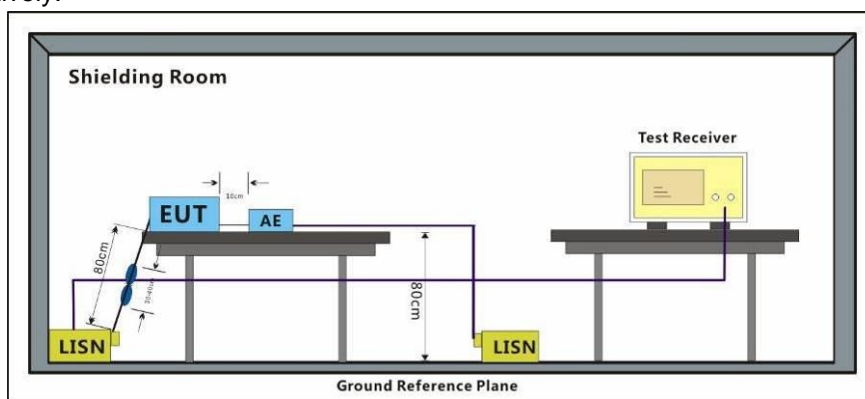
Report No.: SUHR/2022/1001107

Rev.: 01

Page: 9 of 29

### 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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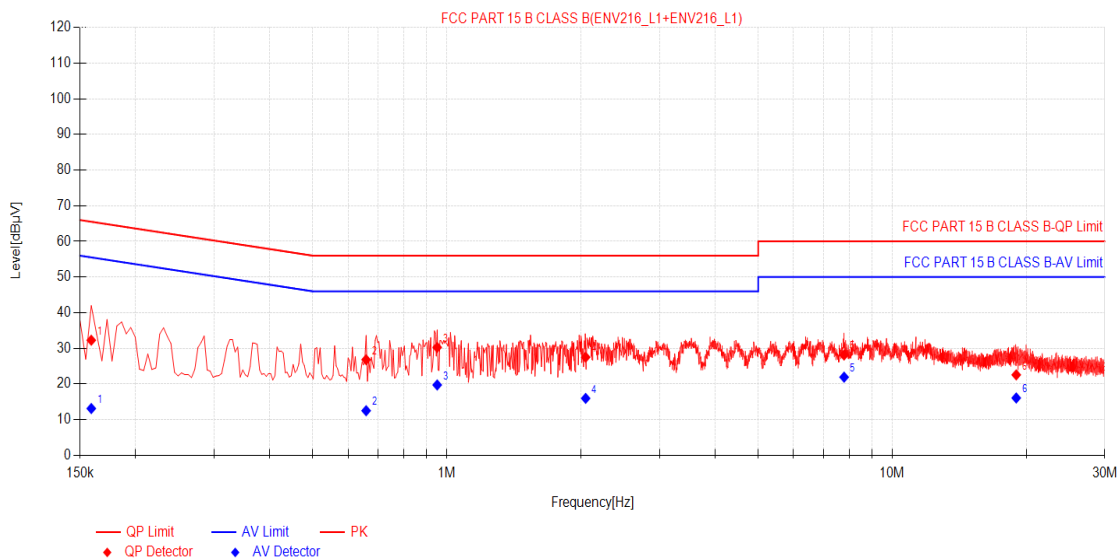
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Report No.: SUHR/2022/1001107

Rev.: 01

Page: 10 of 29

Mode:g; Line:Live Line



## Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.1590	10.67	32.28	65.52	33.24	13.12	55.52	42.40	PASS
2	0.6585	10.56	26.82	56.00	29.18	12.51	46.00	33.49	PASS
3	0.9510	10.54	30.27	56.00	25.73	19.73	46.00	26.27	PASS
4	2.0490	10.68	27.52	56.00	28.48	15.97	46.00	30.03	PASS
5	7.7955	10.69	28.13	60.00	31.87	21.92	50.00	28.08	PASS
6	18.9825	10.44	22.56	60.00	37.44	16.08	50.00	33.92	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Reading + Factor (Lisn factor + cable loss).



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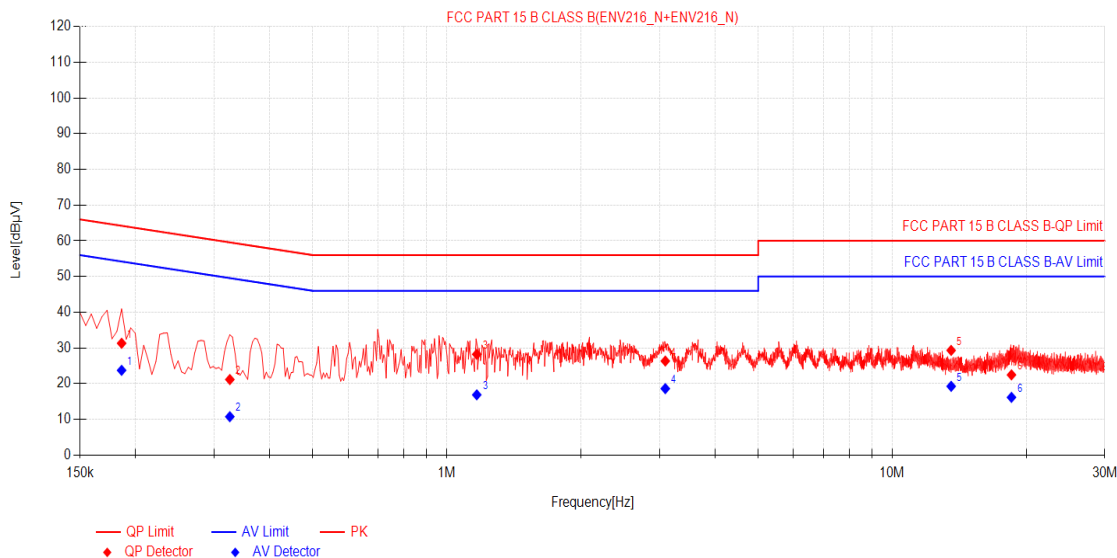
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Report No.: SUHR/2022/1001107

Rev.: 01

Page: 11 of 29

Mode:g; Line:Neutral Line



## Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.1860	10.68	31.32	64.21	32.89	23.74	54.21	30.47	PASS
2	0.3255	10.78	21.17	59.57	38.40	10.76	49.57	38.81	PASS
3	1.1670	10.75	28.23	56.00	27.77	16.88	46.00	29.12	PASS
4	3.0930	10.60	26.34	56.00	29.66	18.62	46.00	27.38	PASS
5	13.5600	10.62	29.32	60.00	30.68	19.27	50.00	30.73	PASS
6	18.5235	10.46	22.47	60.00	37.53	16.17	50.00	33.83	PASS

Remark:

- The following Quasi-Peak and Average measurements were performed on the EUT:
- Final Test Level = Reading + Factor (Lisn factor + cable loss).



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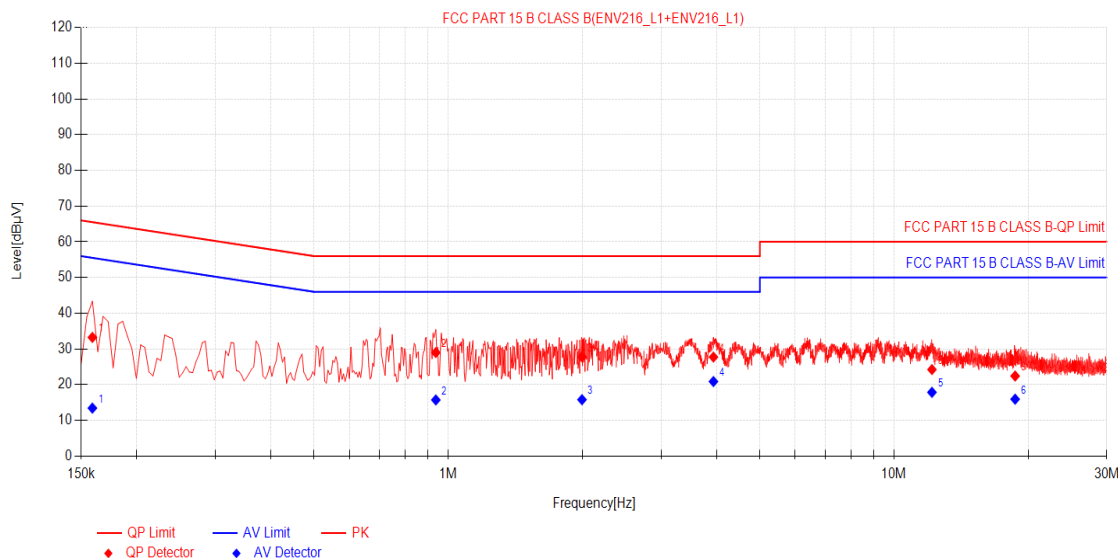
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Report No.: SUHR/2022/1001107

Rev.: 01

Page: 12 of 29

Mode:j; Line:Live Line



## Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.1590	10.67	33.24	65.52	32.28	13.44	55.52	42.08	PASS
2	0.9375	10.56	28.99	56.00	27.01	15.73	46.00	30.27	PASS
3	1.9950	10.68	27.79	56.00	28.21	15.80	46.00	30.20	PASS
4	3.9345	10.72	27.73	56.00	28.27	20.88	46.00	25.12	PASS
5	12.1650	10.59	24.24	60.00	35.76	17.86	50.00	32.14	PASS
6	18.6945	10.45	22.43	60.00	37.57	15.95	50.00	34.05	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Reading + Factor(Lisn factor + cable loss).



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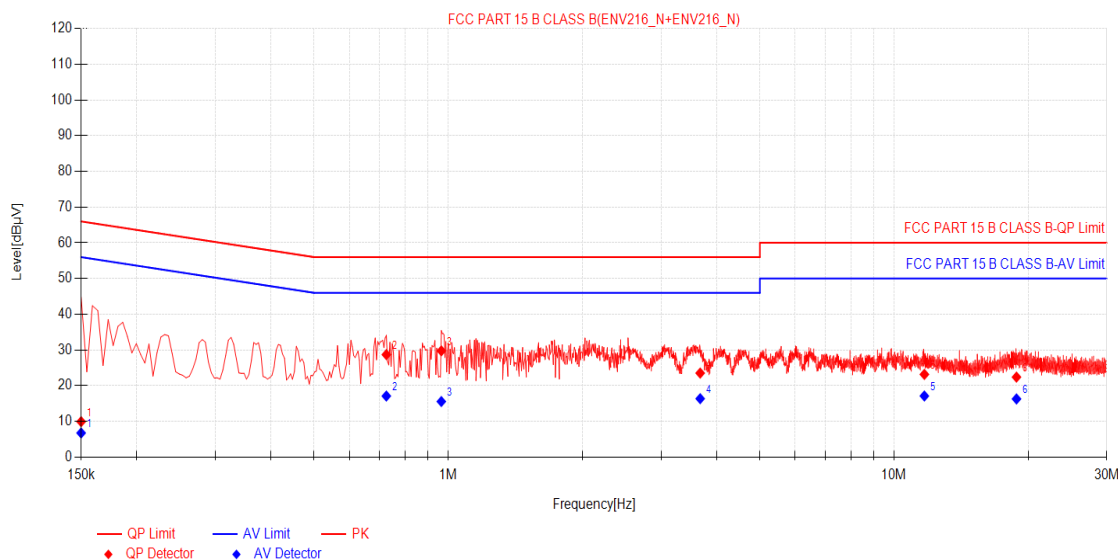
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Report No.: SUHR/2022/1001107

Rev.: 01

Page: 13 of 29

Mode:j; Line:Neutral Line



## Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.1500	10.73	9.93	66.00	56.07	6.76	56.00	49.24	PASS
2	0.7260	10.81	28.70	56.00	27.30	17.10	46.00	28.90	PASS
3	0.9645	10.68	29.75	56.00	26.25	15.57	46.00	30.43	PASS
4	3.6735	10.69	23.53	56.00	32.47	16.37	46.00	29.63	PASS
5	11.6970	10.65	23.16	60.00	36.84	17.11	50.00	32.89	PASS
6	18.8250	10.44	22.40	60.00	37.60	16.29	50.00	33.71	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Reading + Factor(Lisn factor + cable loss).



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Report No.: SUHR/2022/1001107

Rev.: 01

Page: 14 of 29

**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: 22~23°C

Humidity: 44~46% RH

Atmospheric Pressure: 101.0 kPa

Pretest these  
modes to find  
the worst case:

a.:Adaptor(1)+USB(1)+Battery(1)+BT Idle+WLAN(2.4G)+Camera(Front)+GSM850

b.:Adaptor(1)+USB(1)+Battery(1)+BT Idle+WLAN(5G)+Camera(Rear)+WCDMA 5

c.:Adaptor(1)+USB(1)+Battery(1)+BT Idle+WLAN(2.4G)+MP4+LTE Band 5

d.:Adaptor(1)+USB(1)+Battery(1)+BT Idle+WLAN(5G)+GPS RX+GSM1900

e.:Adaptor(1)+USB(1)+Battery(1)+BT Idle+WLAN(2.4G)+NFC ON+WCDMA 2

f.:Adaptor(1)+USB(2)+Battery(1)+BT Idle+WLAN(5G)+Camera(Front)+GSM850

g.:Adaptor(2)+USB(1)+Battery(1)+BT Idle+WLAN(2.4G)+Camera(Front)+GSM850

h.:Battery(1)+Earphone(1)+BT Idle+WLAN(5G)+Camera(Front)+GSM850

i.:Battery(1)+Earphone(2)+BT Idle+WLAN(2.4G)+Camera(Front)+GSM850

j.:Battery(1)+Earphone(3)+BT Idle+WLAN(5G)+Camera(Front)+GSM850

k.:Adaptor(1)+USB(1)+Battery(2)+BT Idle+WLAN(2.4G)+Camera(Front)+GSM850

l.:Adaptor(1)+USB(1)+Battery(3)+BT Idle+WLAN(5G)+Camera(Front)+GSM850

m.:Transfer data between the EUT and the  
PC+USB(1)+Battery(1)+WLAN(2.4G)+Camera(Front)+GSM850n.:Transfer data between the EUT and the  
PC+USB(1)+Battery(1)+WLAN(5G)+Camera(Front)+GSM850The worst case  
for final test:

a.:Adaptor(1)+USB(1)+Battery(1)+BT Idle+WLAN(2.4G)+Camera(Front)+GSM850

n.:Transfer data between the EUT and the  
PC+USB(1)+Battery(1)+WLAN(5G)+Camera(Front)+GSM850

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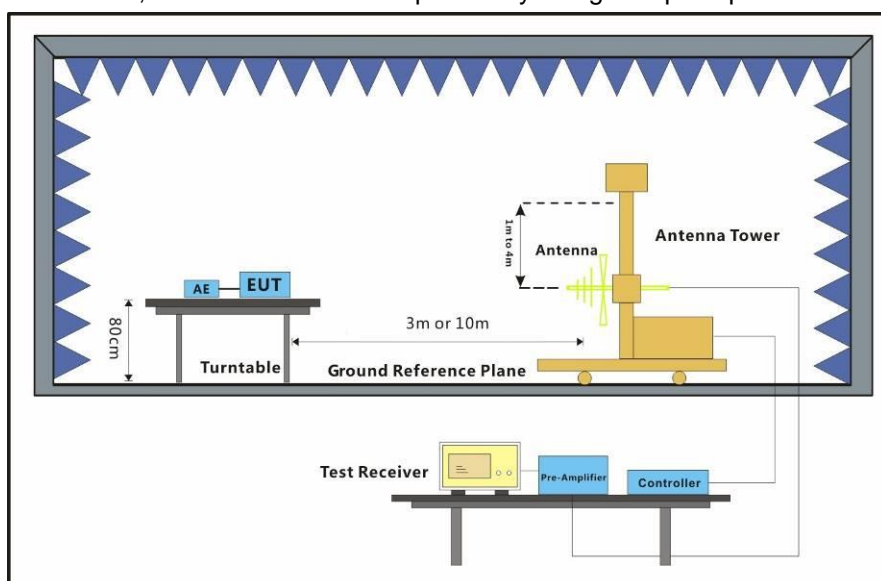
Report No.: SUHR/2022/1001107

Rev.: 01

Page: 15 of 29

### 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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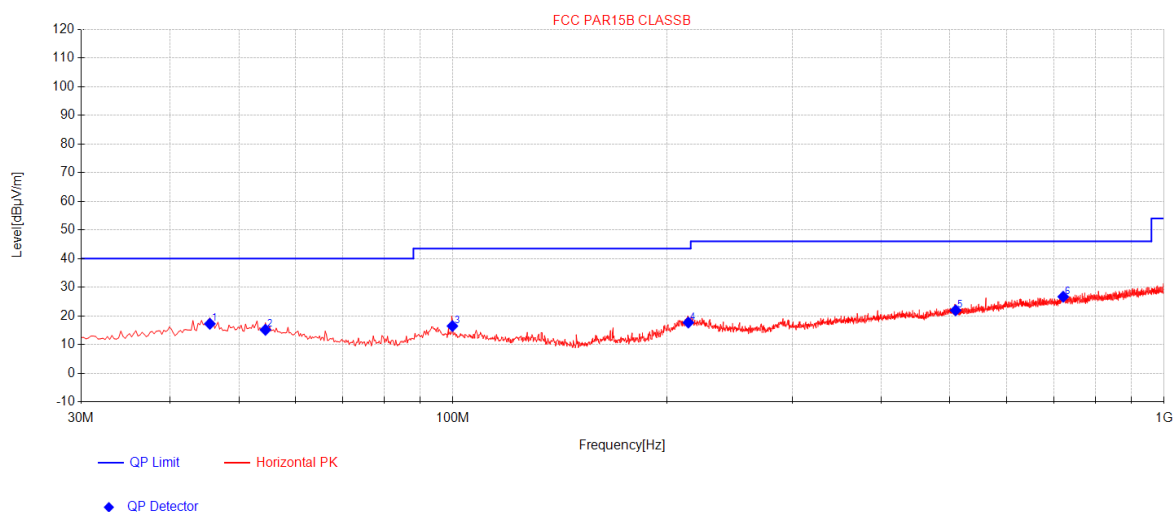
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Report No.: SUHR/2022/1001107

Rev.: 01

Page: 16 of 29

Mode:a; Polarization:Horizontal



## Final Data List

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1	45.52	32.11	-14.87	17.24	40.00	22.76	162	357	Horizontal
2	54.4925	30.26	-15.12	15.14	40.00	24.86	185	357	Horizontal
3	99.84	33.06	-16.59	16.47	43.50	27.03	214	160	Horizontal
4	214.3	33.01	-15.33	17.68	43.50	25.82	152	95	Horizontal
5	509.18	29.86	-7.92	21.94	46.00	24.06	102	333	Horizontal
6	721.3675	29.98	-3.30	26.68	46.00	19.32	106	160	Horizontal

Remark:

1. The Quasi-Peak measurements were performed on the EUT.
2. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).



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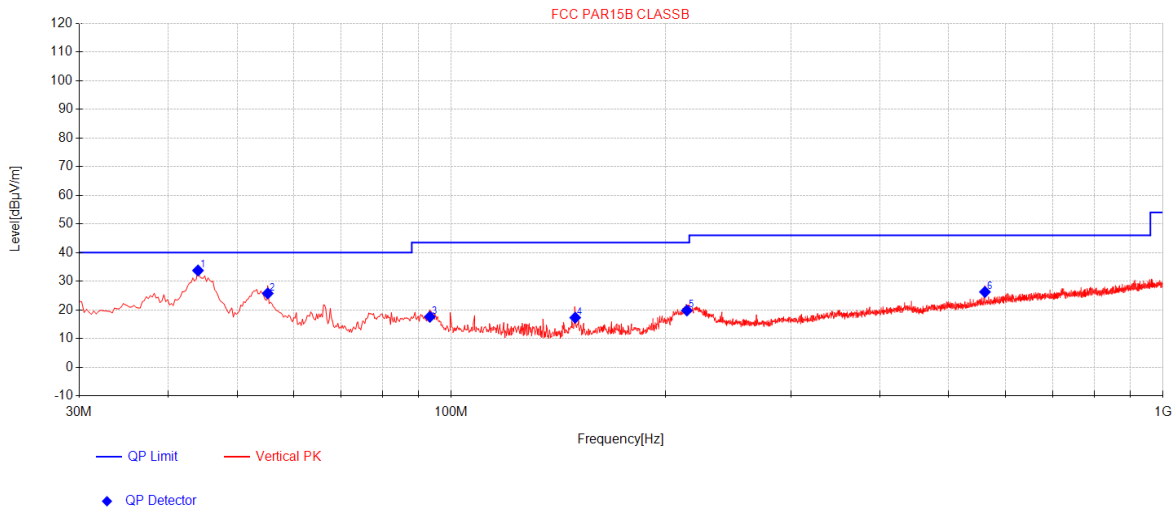
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Report No.: SUHR/2022/1001107

Rev.: 01

Page: 17 of 29

Mode:a; Polarization:Vertical



## Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.065	48.88	-15.14	33.74	40.00	6.26	261	149	Vertical
2	55.22	41.02	-15.26	25.76	40.00	14.24	152	178	Vertical
3	93.2925	35.22	-17.64	17.58	43.50	25.92	141	10	Vertical
4	149.31	37.65	-20.36	17.29	43.50	26.21	121	168	Vertical
5	214.3	35.11	-15.33	19.78	43.50	23.72	103	322	Vertical
6	562.045	33.02	-6.76	26.26	46.00	19.74	130	350	Vertical

Remark:

1. The Quasi-Peak measurements were performed on the EUT.
2. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).



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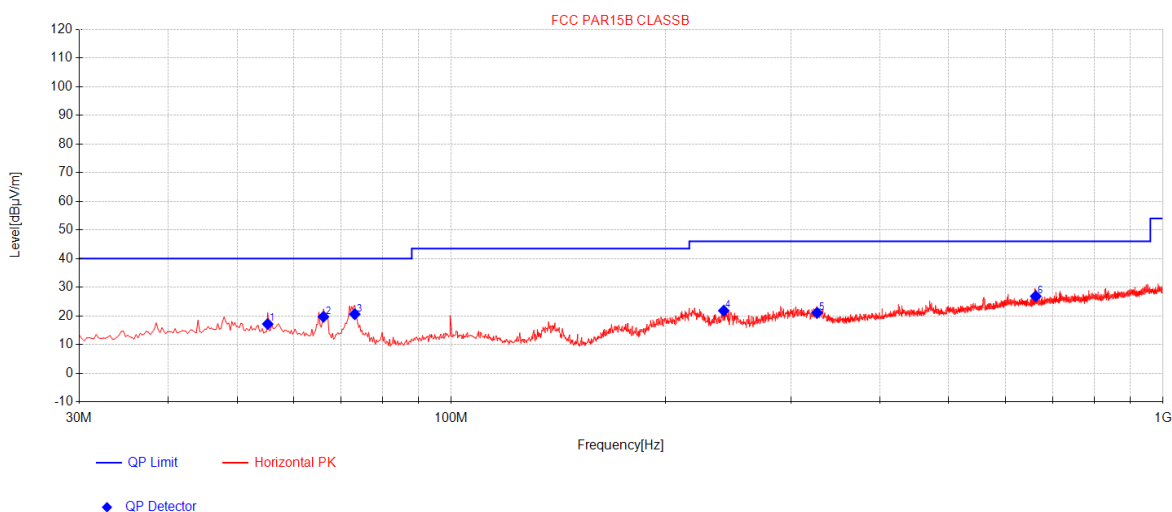
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Report No.: SUHR/2022/1001107

Rev.: 01

Page: 18 of 29

Mode:n; Polarization:Horizontal



## Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	55.22	32.42	-15.26	17.16	40.00	22.84	162	3	Horizontal
2	66.1325	37.65	-17.95	19.70	40.00	20.30	185	66	Horizontal
3	73.165	40.23	-19.64	20.59	40.00	19.41	264	35	Horizontal
4	241.46	36.15	-14.34	21.81	46.00	24.19	196	87	Horizontal
5	326.5775	33.22	-12.13	21.09	46.00	24.91	247	240	Horizontal
6	662.44	31.52	-4.66	26.86	46.00	19.14	175	19	Horizontal

Remark:

1. The Quasi-Peak measurements were performed on the EUT.
2. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).



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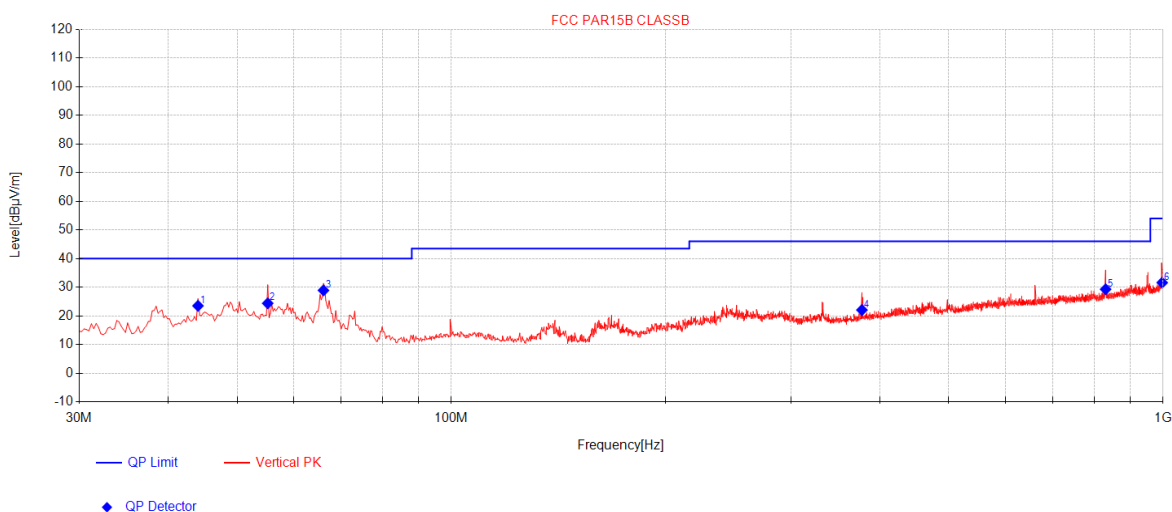
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Report No.: SUHR/2022/1001107

Rev.: 01

Page: 19 of 29

Mode:n; Polarization:Vertical



## Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.065	38.65	-15.14	23.51	40.00	16.49	162	248	Vertical
2	55.22	39.65	-15.26	24.39	40.00	15.61	196	248	Vertical
3	66.1325	46.85	-17.95	28.90	40.00	11.10	241	84	Vertical
4	377.5025	32.62	-10.56	22.06	46.00	23.94	185	27	Vertical
5	830.4925	31.68	-2.40	29.28	46.00	16.72	264	207	Vertical
6	997.3325	31.86	-0.27	31.59	54.00	22.41	181	353	Vertical

Remark:

1. The Quasi-Peak measurements were performed on the EUT.
2. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).



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Report No.: SUHR/2022/1001107

Rev.: 01

Page: 20 of 29

**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 to 40000MHz

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

Operating Environment:

Temperature: 22~23°C

Humidity: 44~46% RH

Atmospheric Pressure: 101.0 kPa

Pretest these

modes to find

the worst case:

a.: Adaptor(1)+USB(1)+Battery(1)+BT Idle+WLAN(2.4G)+Camera(Front)+GSM850

b.: Adaptor(1)+USB(1)+Battery(1)+BT Idle+WLAN(5G)+Camera(Rear)+WCDMA 5

c.: Adaptor(1)+USB(1)+Battery(1)+BT Idle+WLAN(2.4G)+MP4+LTE Band 5

d.: Adaptor(1)+USB(1)+Battery(1)+BT Idle+WLAN(5G)+GPS RX+GSM1900

e.: Adaptor(1)+USB(1)+Battery(1)+BT Idle+WLAN(2.4G)+NFC ON+WCDMA 2

f.: Adaptor(1)+USB(2)+Battery(1)+BT Idle+WLAN(5G)+Camera(Front)+GSM850

g.: Adaptor(2)+USB(1)+Battery(1)+BT Idle+WLAN(2.4G)+Camera(Front)+GSM850

h.: Battery(1)+Earphone(1)+BT Idle+WLAN(5G)+Camera(Front)+GSM850

i.: Battery(1)+Earphone(2)+BT Idle+WLAN(2.4G)+Camera(Front)+GSM850

j.: Battery(1)+Earphone(3)+BT Idle+WLAN(5G)+Camera(Front)+GSM850

k.: Adaptor(1)+USB(1)+Battery(2)+BT Idle+WLAN(2.4G)+Camera(Front)+GSM850

l.: Adaptor(1)+USB(1)+Battery(3)+BT Idle+WLAN(5G)+Camera(Front)+GSM850

m.: Transfer data between the EUT and the

PC+USB(1)+Battery(1)+WLAN(2.4G)+Camera(Front)+GSM850

n.: Transfer data between the EUT and the

PC+USB(1)+Battery(1)+WLAN(5G)+Camera(Front)+GSM850

l.: Adaptor(1)+USB(1)+Battery(3)+BT Idle+WLAN(5G)+Camera(Front)+GSM850

n.: Transfer data between the EUT and the

PC+USB(1)+Battery(1)+WLAN(5G)+Camera(Front)+GSM850

The worst case

for final test:

l.: Adaptor(1)+USB(1)+Battery(3)+BT Idle+WLAN(5G)+Camera(Front)+GSM850

n.: Transfer data between the EUT and the

PC+USB(1)+Battery(1)+WLAN(5G)+Camera(Front)+GSM850



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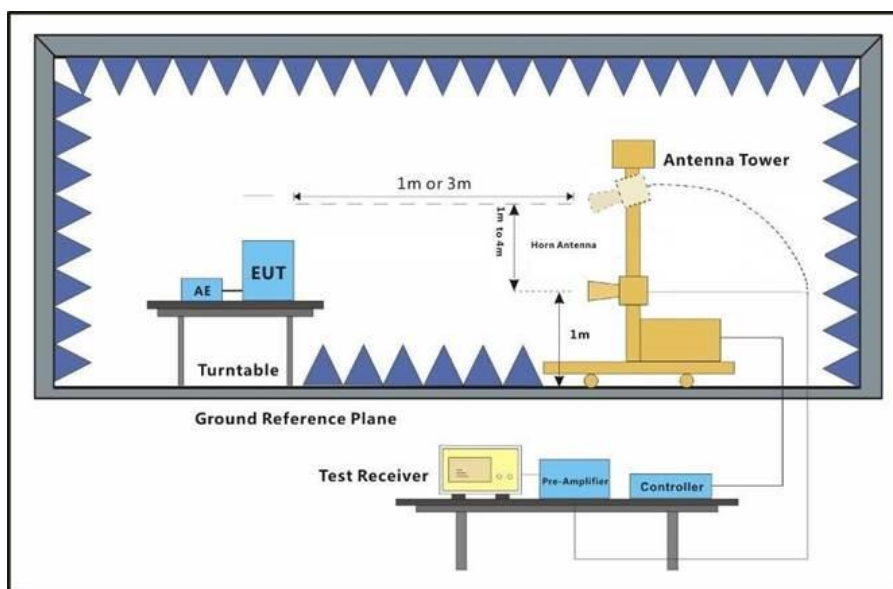
Report No.: SUHR/2022/1001107

Rev.: 01

Page: 21 of 29

### 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.
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.



### 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 above plots are the highest emissions could be found when testing, so only above points had been displayed.



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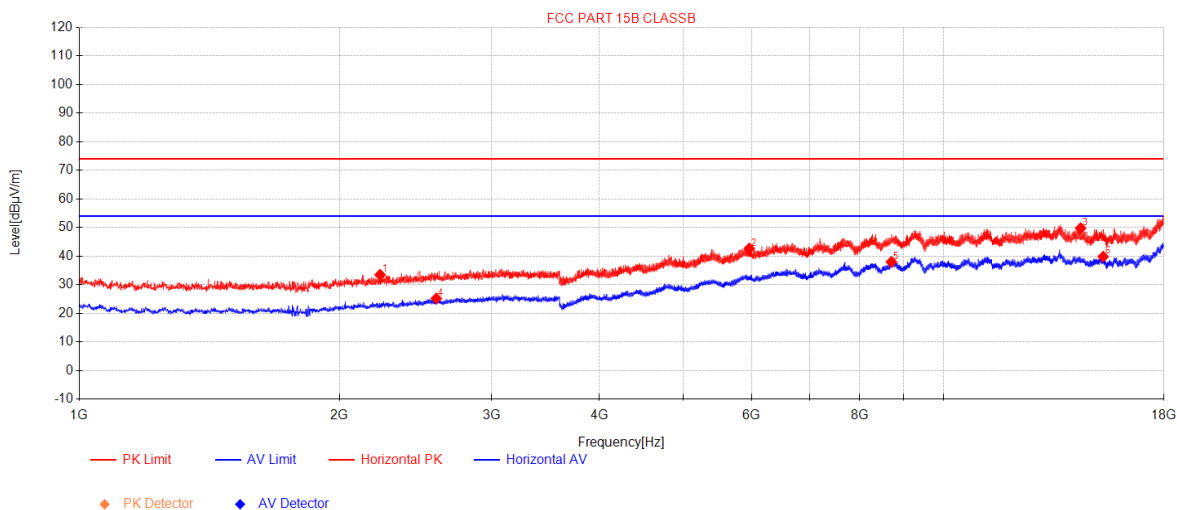
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Report No.: SUHR/2022/1001107

Rev.: 01

Page: 22 of 29

Mode:I; Polarization:Horizontal



## Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2229.1	53.81	33.46	-20.35	74.00	40.54	241	236	Horizontal
2	5960.6	51.97	42.63	-9.34	74.00	31.37	185	337	Horizontal
3	14415.55	44.88	49.74	4.86	74.00	24.26	264	288	Horizontal
4	2589.5	44.16	25.18	-18.98	54.00	28.82	186	288	Horizontal
5	8705.25	39.19	37.94	-1.25	54.00	16.06	118	0	Horizontal
6	15307.2	34.77	39.78	5.01	54.00	14.22	231	59	Horizontal

## Remark:

1. The Quasi-Peak and Average measurements were performed on the EUT.
2. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).



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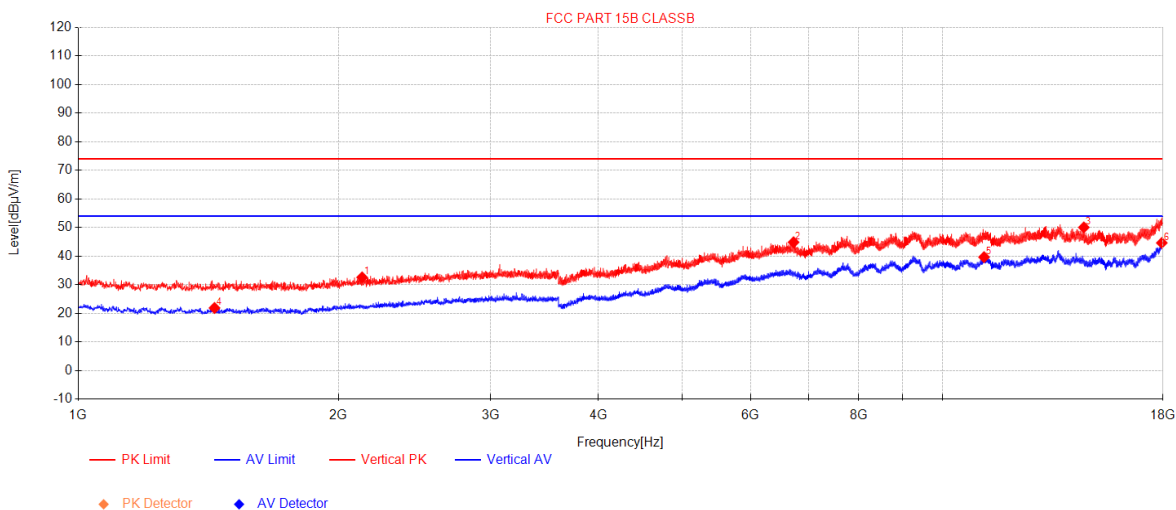
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Report No.: SUHR/2022/1001107

Rev.: 01

Page: 23 of 29

Mode:I; Polarization:Vertical



## Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2130.5	53.23	32.55	-20.68	74.00	41.45	261	25	Vertical
2	6725.6	51.99	44.82	-7.17	74.00	29.18	145	346	Vertical
3	14577.05	44.58	50.01	5.43	74.00	23.99	263	98	Vertical
4	1437.75	45.06	21.86	-23.20	54.00	32.14	296	300	Vertical
5	11173.65	35.61	39.63	4.02	54.00	14.37	214	300	Vertical
6	17943.05	32.56	44.60	12.04	54.00	9.40	185	98	Vertical

## Remark:

1. The Quasi-Peak and Average measurements were performed on the EUT.
2. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).



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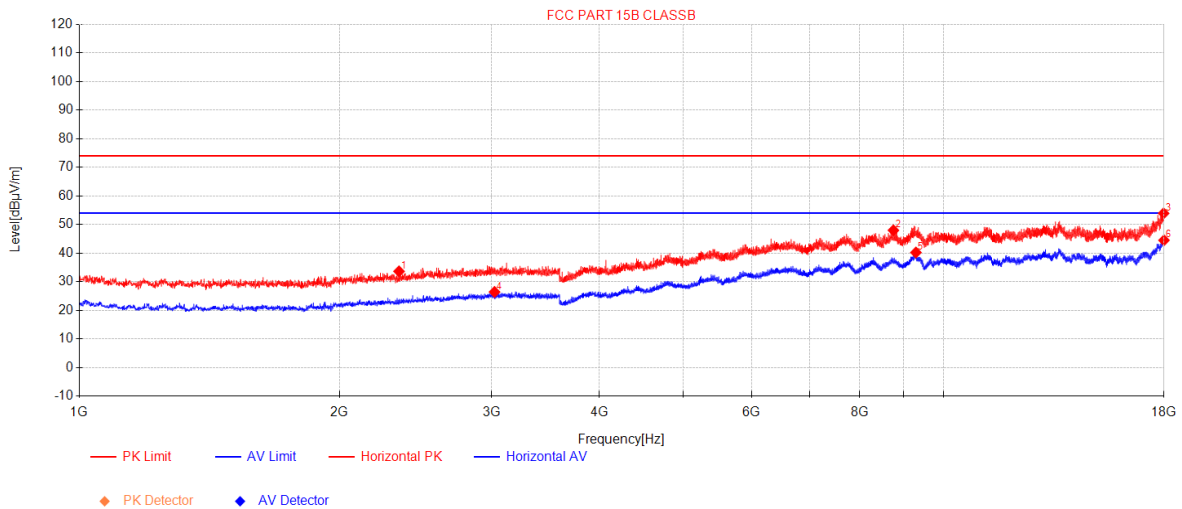
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Rev.: 01

Page: 24 of 29

Mode:n; Polarization:Horizontal



## Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2344.7	53.62	33.60	-20.02	74.00	40.40	169	285	Horizontal
2	8753.7	48.96	47.94	-1.02	74.00	26.06	214	0	Horizontal
3	17982.15	41.45	53.88	12.43	74.00	20.12	185	160	Horizontal
4	3023.85	43.30	26.40	-16.90	54.00	27.60	264	357	Horizontal
5	9294.3	39.92	40.20	0.28	54.00	13.80	185	335	Horizontal
6	17999.15	31.87	44.47	12.60	54.00	9.53	164	261	Horizontal

Remark:

1. The Quasi-Peak and Average measurements were performed on the EUT.
2. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).



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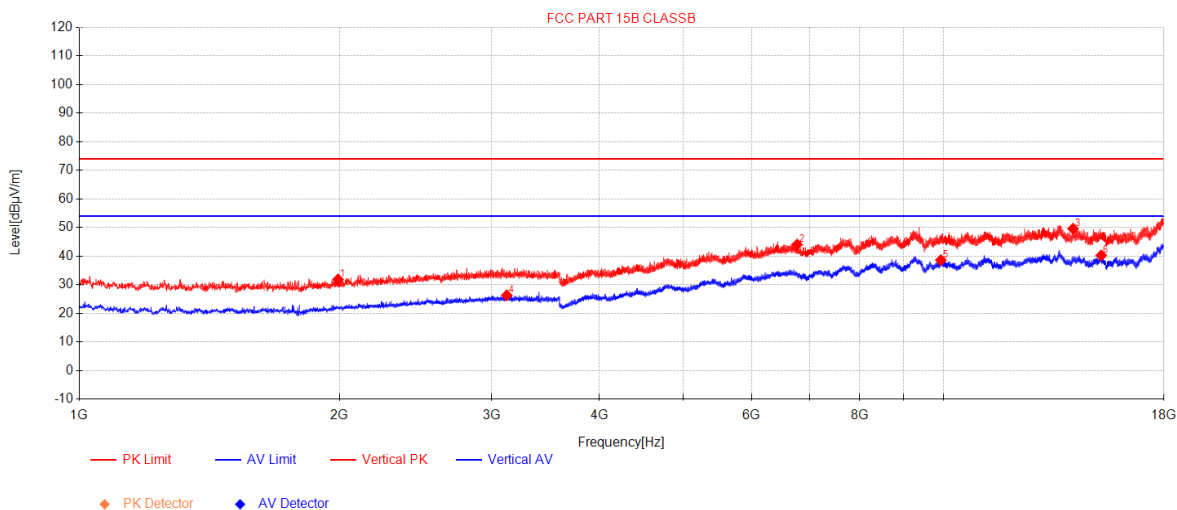
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Rev.: 01

Page: 25 of 29

Mode:n; Polarization:Vertical



## Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1992.8	53.05	31.82	-21.23	74.00	42.18	269	3	Vertical
2	6773.2	51.08	44.03	-7.05	74.00	29.97	185	150	Vertical
3	14126.55	44.19	49.54	5.35	74.00	24.46	174	322	Vertical
4	3124.15	43.18	26.26	-16.92	54.00	27.74	264	322	Vertical
5	9932.65	37.38	38.57	1.19	54.00	15.43	189	360	Vertical
6	15227.3	34.34	40.22	5.88	54.00	13.78	218	25	Vertical

## Remark:

1. The Quasi-Peak and Average measurements were performed on the EUT.
2. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).



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Page: 26 of 29

### 3 Equipment List

CE Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/5/8	2024/5/7
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Measurement Software	Tonscend	JS32-CE V3.0.0.1	SUWI-02-09-05	NCR	NCR
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-27-01	2021/9/28	2022/9/27
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2021/2/20	2022/2/19
				2022/2/19	2023/2/18



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中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn  
t (86-512) 62992980 sgs.china@sgs.com

Report No.: SUHR/2022/1001107

Rev.: 01

Page: 27 of 29

RE Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/2/16	2023/2/15
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/2/16	2023/2/15
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/5/16	2022/5/15
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/5/16	2022/5/15
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/5/14	2022/5/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/2/16	2023/2/15
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/2/16	2023/2/15
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/2/16	2023/2/15
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/6/10	2023/6/9
Measurement Software	Tonscend	JS32-RE V3.0.0.3	SUWI-02-09-04	NCR	NCR
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-27-01	2021/9/28	2022/9/27



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中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000

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t (86-512) 62992980 sgs.china@sgs.com

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Rev.: 01

Page: 28 of 29

## 4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	$\pm 2.90\text{dB}$ (150kHz to 30MHz)
2	Radiated Emission	$\pm 4.8\text{dB}$ (30MHz to 1GHz)
		$\pm 4.8\text{dB}$ (1GHz to 18GHz)
		$\pm 4.8\text{dB}$ (Above 18GHz)



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Report No.: SUHR/2022/1001107

Rev.: 01

Page: 29 of 29

## 5 Photographs

### 5.1 Test Setup

Refer to Appendix A.1 15B Setup Photos.

### 5.2 EUT Constructional Details (EUT Photos)

Refer to Photographs of EUT Constructional Details

- End of the Report -



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