

Report No.: SUHR/2021/C000107

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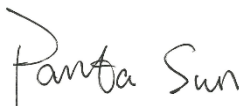
TEST REPORT

Application No: HR/2021/C0001
Applicant: Honor Device Co., Ltd.
Address of Applicant: Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No.8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, , Guangdong 518040, People's Republic of China
Manufacturer: Honor Device Co., Ltd.
Address of Manufacturer: Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No.8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, , Guangdong 518040, People's Republic of China
EUT Description: Smart Phone
Model No.: NTN-LX3
Trade Mark: HONOR
FCC ID: 2AYGCNTN-LX3
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2021/12/8
Date of Test: 2021/12/18 to 2021/12/18
Date of Issue: 2021/12/18

Test Result:**Pass***

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

Authorized Signature:



Panta Sun

Wireless Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021/12/18		Original

Prepared By		Weller Liu
		(Weller Liu) / Engineer
Checked By		Well Wei
		(Well Wei) / 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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Remark:

This test report (Report No.: SUHR/2021/C000107) is based on the original test report (Report No.: HR/2021/1001406-01) issued on 2021-06-06.

According to the difference declaration from the applicant, Conducted Emissions and Radiated Emissions are performed based on the worst case of the original report and the other test data can be refereed to the original test report.



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1 General Information

Product Name:	Smart Phone		
Model No.(EUT):	NTN-LX3		
Trade Mark:	HONOR		
Hardware Version:	HL1NTNM		
Software Version:	11.0.2.88(C900E85R1P3)		
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 17	704~716	734~746
	LTE Band 26	814~849	859~894
	LTE Band 66	1710~1780	2110~2200
	Wi-Fi 2.4G	2412~2462	2412~2462
	Bluetooth	2402~2480	2402~2480
	Wi-Fi 5G	5150~5850	5150~5850
	FM	88~108	
	GNSS(GPS+Glonass + Beidou)	1559~1610	



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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

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:0031225543

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: 22~23 °C Humidity: 44~46% RH Atmospheric Pressure: 101 Kpa

Pretest these modes to find the worst case:
 a:LTE Band 12Idle +BTIdle+5GWLAN
 Idle+GPS+Camera(Front)+earphone+battery+usb+adapeter

The worst case for final test:
 a: LTE Band 12Idle +BTIdle+5GWLAN
 Idle+GPS+Camera(Front)+earphone+battery+usb+adapeter



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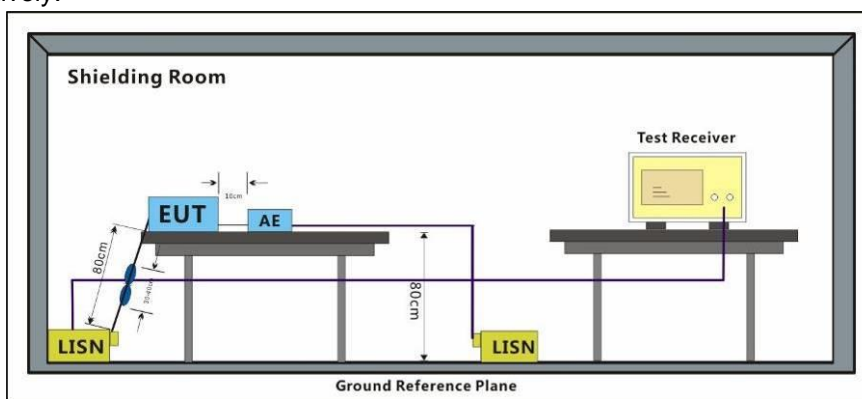
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2.1.2 Test Setup Procedures

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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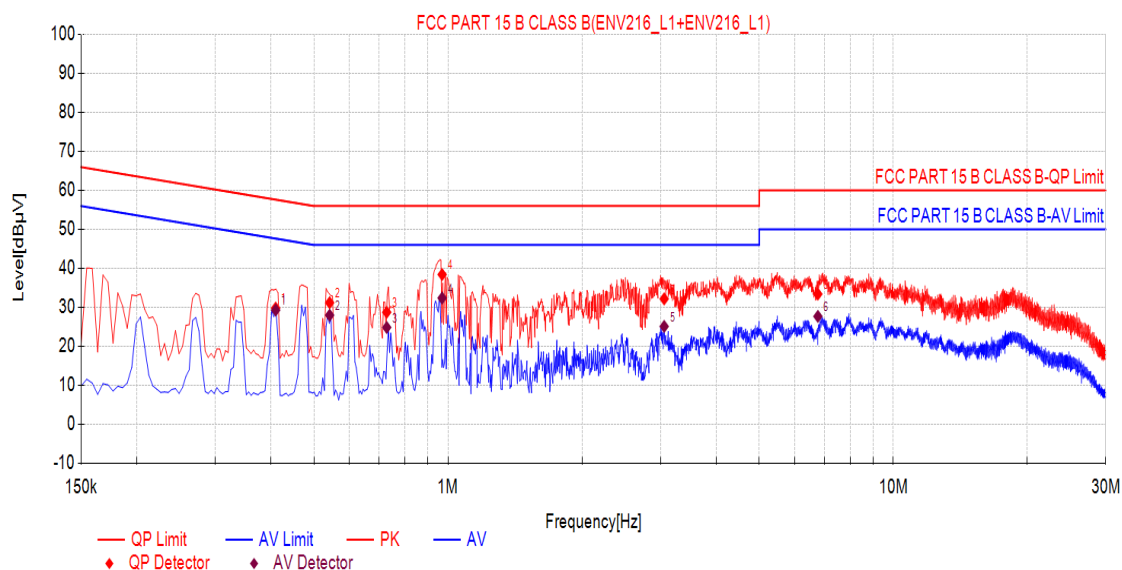
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Mode a;; Line:Live Line



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]	Verdict
1	0.4104	9.51	29.80	57.64	27.84	29.26	47.64	18.38	PASS
2	0.5425	9.57	31.18	56.00	24.82	27.97	46.00	18.03	PASS
3	0.7288	9.56	28.72	56.00	27.28	24.83	46.00	21.17	PASS
4	0.9705	9.52	38.42	56.00	17.58	32.38	46.00	13.62	PASS
5	3.0595	9.66	32.16	56.00	23.84	25.09	46.00	20.91	PASS
6	6.7726	9.69	33.39	60.00	26.61	27.67	50.00	22.33	PASS

Final Value = Receiver Read level + LISN Factor + Cable loss.



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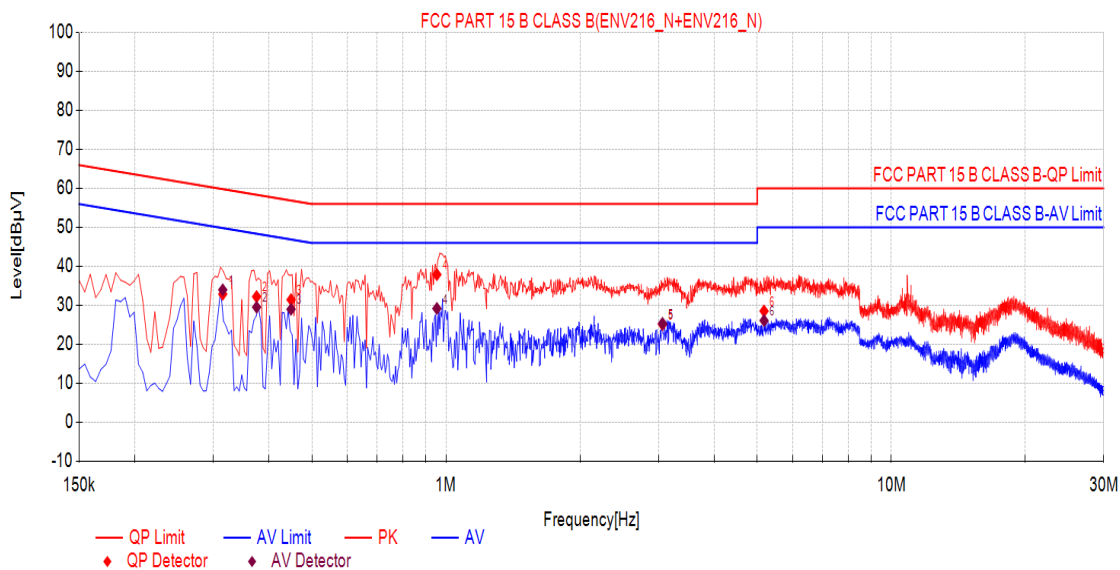
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Mode a;; Line:Neutral Line



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]	Verdict
1	0.3154	9.77	32.85	59.83	26.98	33.97	49.83	15.86	PASS
2	0.3757	9.82	32.21	58.37	26.16	29.52	48.37	18.85	PASS
3	0.4489	9.82	31.43	56.90	25.47	28.97	46.90	17.93	PASS
4	0.9543	9.69	37.89	56.00	18.11	29.17	46.00	16.83	PASS
5	3.0640	9.60	25.08	56.00	30.92	25.34	46.00	20.66	PASS
6	5.1801	9.63	28.51	60.00	31.49	26.08	50.00	23.92	PASS

Final Value = Receiver Read level + LISN Factor + Cable loss.



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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: 22~23 °C

Humidity: 44~46 % RH

Atmospheric Pressure: 101 Kpa

Pretest these modes to find the worst case:

a: LTE Band 12Idle +BTIdle+5GWLAN
Idle+GPS+Camera(Front)+earphone+battery+usb+adapeter

The worst case for final test:

a: LTE Band 12Idle +BTIdle+5GWLAN
Idle+GPS+Camera(Front)+earphone+battery+usb+adapeter



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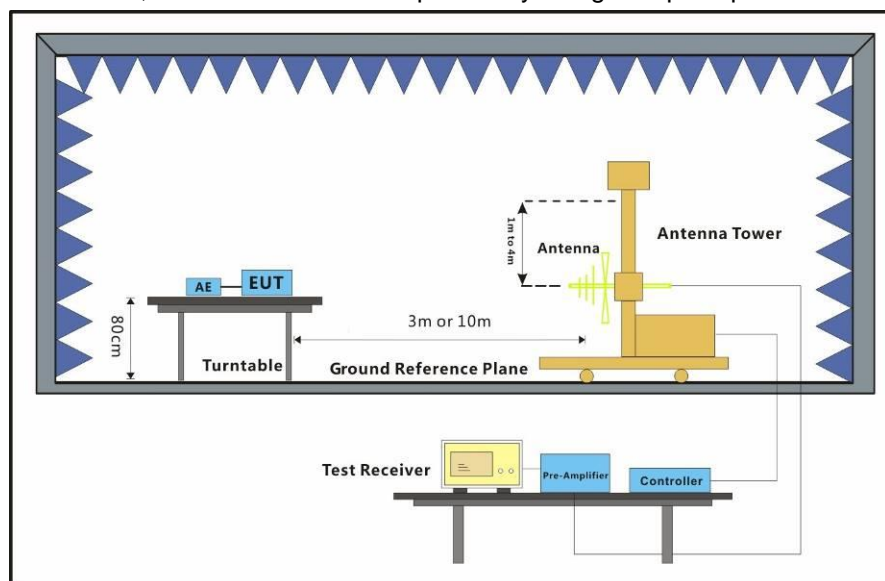
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2.2.2 Test Setup Procedures

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.

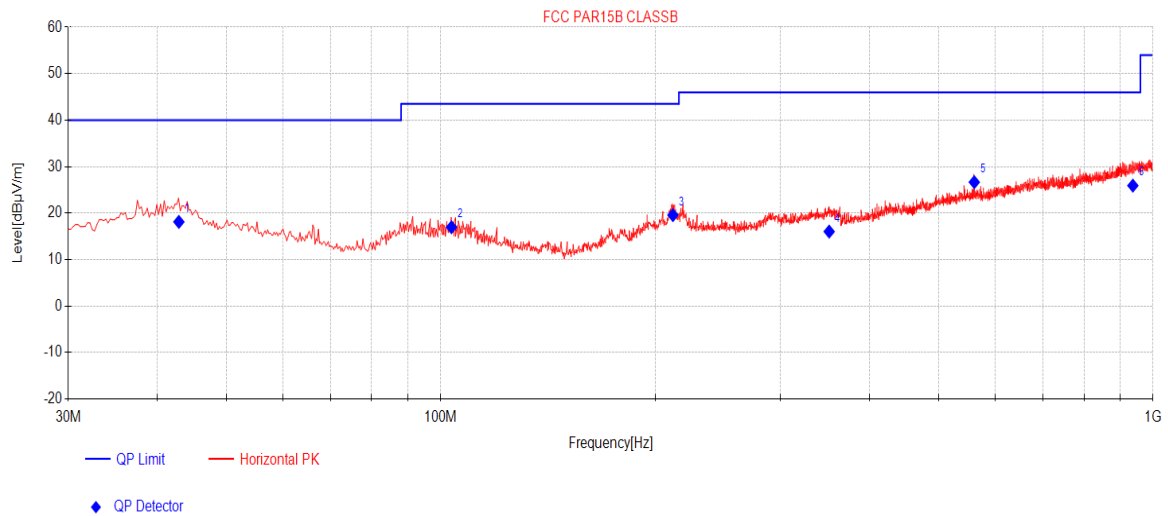
The three polarities of X,Y,Z were measured by EUT, but only the worst data had been displayed.

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Mode a :: Polarization:Horizontal



Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	42.8987	-15.39	18.12	40.00	21.88	102	196.2	Horizontal
2	103.5633	-16.61	16.98	43.50	26.52	180	256.9	Horizontal
3	211.8517	-15.50	19.58	43.50	23.92	220	71	Horizontal
4	351.1107	-10.92	16.04	46.00	29.96	120	148.6	Horizontal
5	561.2025	-6.80	26.67	46.00	19.33	213	151.5	Horizontal
6	937.0405	-0.76	25.92	46.00	20.08	302	346.7	Horizontal

Remark: Final Value = Receiver Read level + Antenna Factor + Cable loss – Preamplifier Factor



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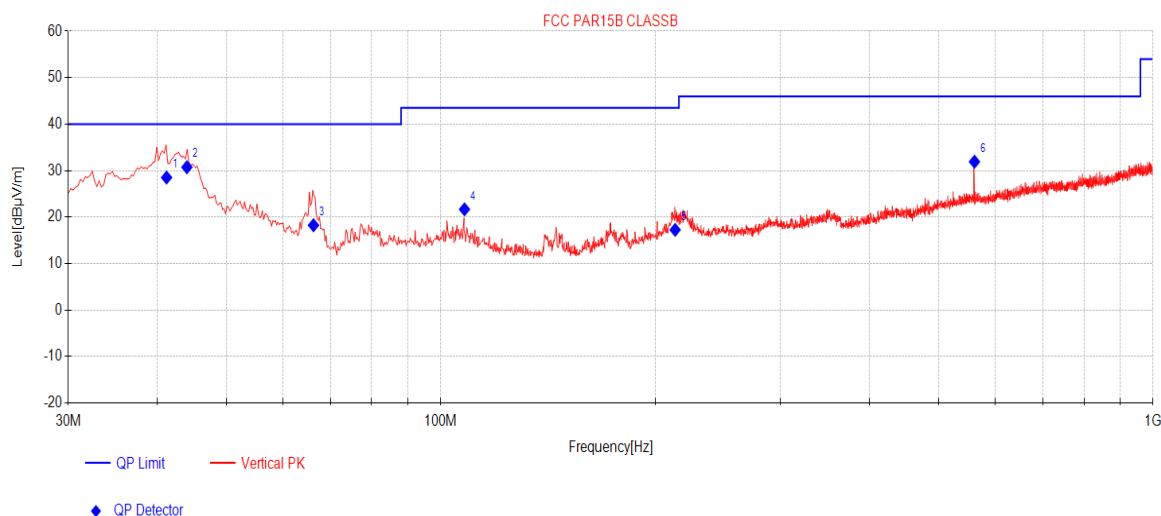
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Mode a :: Polarization:Vertical



Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.2280	-15.74	28.53	40.00	11.47	100	40	Vertical
2	44.0278	-15.14	30.75	40.00	9.25	203	142.1	Vertical
3	66.2868	-17.96	18.26	40.00	21.74	196	23.5	Vertical
4	108.0052	-16.69	21.68	43.50	21.82	100	318.6	Vertical
5	213.3726	-15.40	17.27	43.50	26.23	100	111.8	Vertical
6	561.4997	-6.80	31.93	46.00	14.07	306	238.7	Vertical

Remark: Final Value = Receiver Read level + Antenna Factor + Cable loss – Preamplifier Factor



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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 to 40000MHz

2.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22~23 °C

Humidity: 44~46 % RH

Atmospheric Pressure: 101 Kpa

Pretest these modes to find the worst case:

a: LTE Band 12Idle +BTIdle+5GWLAN
Idle+GPS+Camera(Front)+earphone+battery+usb+adapeter

The worst case for final test:

a: LTE Band 12Idle +BTIdle+5GWLAN
Idle+GPS+Camera(Front)+earphone+battery+usb+adapeter



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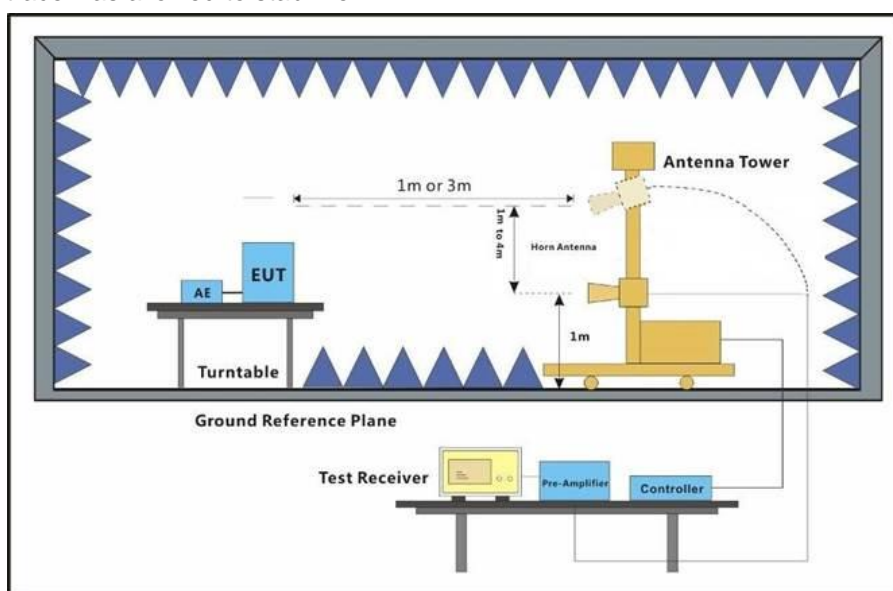
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2.3.2 Test Setup Procedures

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 1GHz to 30GHz, 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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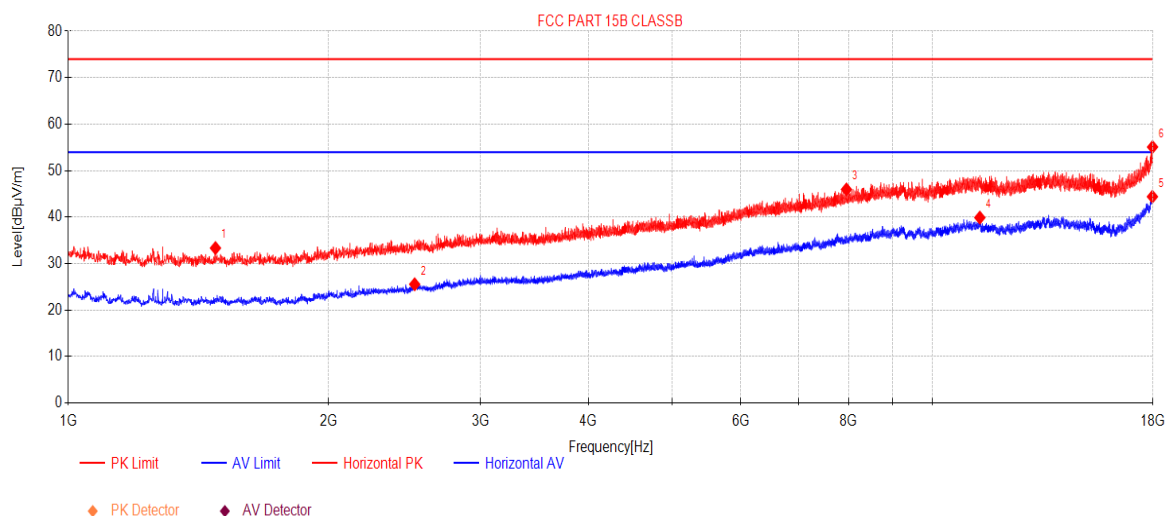
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Mode a : Polarization:Horizontal



Data List								
NO.	Frequency [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1480.25	33.35	-23.06	74.00	40.65	163	349	Horizontal
2	2517.25	25.56	-18.87	54.00	28.44	246	349	Horizontal
3	7953.00	45.96	-3.69	74.00	28.04	218	275	Horizontal
4	11347.9	39.90	4.19	54.00	14.10	228	219	Horizontal
5	17972.8	44.41	12.34	54.00	9.59	354	95	Horizontal
6	17978.7	55.09	12.40	74.00	18.91	105	234	Horizontal

Remark: Final Value = Receiver Read level + Antenna Factor + Cable loss – Preamplifier Factor



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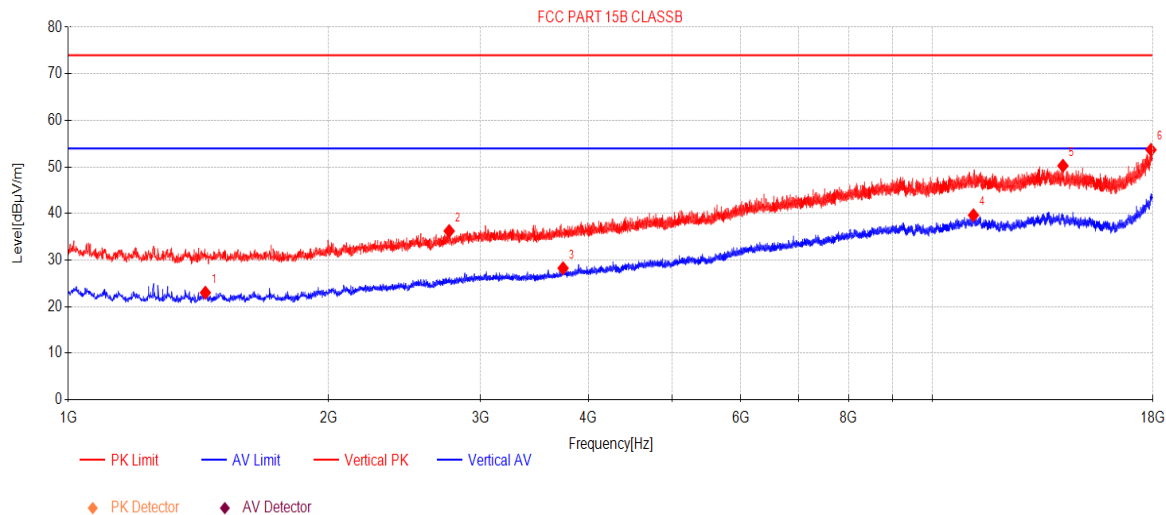
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Mode a :: Polarization:Vertical



Data List

NO.	Frequency [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1441.15	23.02	-23.19	54.00	30.98	152	118	Vertical
2	2759.50	36.25	-18.05	74.00	37.75	186	315	Vertical
3	3737.85	28.26	-15.80	54.00	25.74	142	12	Vertical
4	11156.6	39.65	4.02	54.00	14.35	362	134	Vertical
5	14159.7	50.26	5.33	74.00	23.74	102	192	Vertical
6	17905.6	53.67	11.67	74.00	20.33	218	233	Vertical

Remark: Final Value = Receiver Read level + Antenna Factor + Cable loss – Preamplifier Factor



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3 Equipment List

Conduction 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
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2021/2/20	2022/2/19
Wideband Radio Communication Tester	Anritsu	MT8820C	SUWI-01-16-08	2021/2/20	2022/2/19
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2021/2/20	2022/2/19
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2021/2/20	2022/2/19
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2021/2/20	2022/2/19
Measurement Software	Tonscend	JS32-CE V3.0.0.1	SUWI-02-09-05	NCR	NCR



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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	2021/2/20	2022/2/19
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2021/2/20	2022/2/19
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	2021/2/20	2022/2/19
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2021/2/20	2022/2/19
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2021/2/20	2022/2/19
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/6/10	2022/6/9
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2021/2/20	2022/2/19
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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4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	$\pm 2.9\text{dB}$ (150kHz to 30MHz)
2	Radiated Emission	$\pm 4.8\text{dB}$ (Below 1GHz)
		$\pm 4.8\text{dB}$ (1GHz to 18GHz)
		$\pm 4.8\text{dB}$ (Above 18GHz)



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5 Photographs

5.1 Test Setup

Refer to Appendix A Setup Photos.

5.2 EUT Constructional Details (EUT Photos)

Refer to Photographs of EUT Constructional Details

- End of the Report -



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