

Report No.: SUHR/2022/1001006

Rev.: 01

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TEST REPORT

Application No: HR/2022/10010
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.: CMA-LX3
Trade Mark: HONOR
FCC ID: 2AYGCCMA-LX3
Standard(s): 47 CFR Part 15, Subpart B
Date of Receipt: 2022/2/11
Date of Test: 2022/2/18 to 2022/2/22
Date of Issue: 2022/3/4

Test Result:	Pass*
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* 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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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/3/4		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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1 General Information

EUT Description:	Smart Phone		
Model No.:	CMA-LX3		
Trade Mark:	HONOR		
Hardware Version:	HL2CMAM		
Software Version:	4.2.0.32(C900E32R1P1)		
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 13	777~787	746~756
	LTE Band 26	814~849	859~894
	LTE Band 38	2570~2620	2570~2620
	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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Accessory:

Adapter No.	Model No.	S/N	Manufacturer
1	HW-100225E00	HF48EAM3Y00927	Honor Device Co., Ltd. (Factory: Huntkey)
2	HW-100225B00	HF49EAM3C04335	Honor Device Co., Ltd. (Factory: Huntkey)
3	HW-100225U00	\	Honor Device Co., Ltd. (Factory: Huntkey)
4	HN-100225U00	KH0414M5812250	Honor Device Co., Ltd. (Factory: Salcomp)
5	HN-100225E00	KH0504M5701760	Honor Device Co., Ltd. (Factory: Salcomp)

Note: Adapter 1, 2, 4 & 5 were selected to test, 2 & 3 are identical.

USB cable no.	Model no.	Manufacturer
1	AU2-CRO013 HF	Freeport Resources Enterprises (Jiangxi) Co., Ltd
2	RY 0002	Ningbo Broad Telecommunication Co., Ltd
3	L125UC007-CS-H	LUXSHARE Precision Industry Co., Ltd.
4	2120--00001-0	Dongguan Mingji Electronics Technology Group Co., Ltd
5	CUDU01B-HC295-EH	FOXCONN INTERCONNECT TECHNOLOGY LIMITED

Battery no.	Model no.	Description	Manufacturer
1	HB496590EFW-F	Rated capacity: 4900mAh Nominal Voltage:  +3.87V Charging Voltage:  +4.45V	Honor Device Co., Ltd. (Factory: NVT)
2	HB496590EFW		Honor Device Co., Ltd. (Factory: NVT)
3	HB496590EFW		Honor Device Co., Ltd. (Factory: Desay)
4	HB496590EFW-F		Honor Device Co., Ltd. (Factory: Desay)
5	HB496590EFW-F		Honor Device Co., Ltd. (Factory: SUCD)
6	HB496590EFW		Honor Device Co., Ltd. (Factory: SUCD)



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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.



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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: 717327

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: 101.0 kPa

Pretest these modes to find the worst case:	a: Adaptor(1)+USB(1)+Battery(1)+Earphone(1)+BT Idle+WLAN(2.4G)+Camera(Rear)+GSM850
	b: Adaptor(1)+USB(1)+Battery(1)+Earphone(1)+BT Idle+WLAN(5G)+Camera(Front)+WCDMA 5
	c: Adaptor(1)+USB(1)+Battery(1)+Earphone(1)+BT Idle+WLAN(2.4G)+MP4+LTE Band 5
	d: Adaptor(1)+USB(1)+Battery(1)+Earphone(1)+BT Idle+WLAN(5G)+GPS RX+LTE Band 13
	e: Adaptor(1)+USB(1)+Battery(1)+Earphone(1)+BT Idle+WLAN(2.4G)+FM+LTE Band 26
	f: Adaptor(1)+USB(1)+Battery(1)+Earphone(2)+BT Idle+WLAN(5G)+(Camera(Rear)+Camera(Rear)+GSM850
	g: Adaptor(1)+USB(1)+Battery(1)+Earphone(3)+BT Idle+WLAN(2.4G)+Camera(Rear)+GSM850
	h: Adaptor(1)+USB(2)+Battery(1)+Earphone(1)+BT Idle+WLAN(5G)+Camera(Rear)+GSM850
	i: Adaptor(1)+USB(3)+Battery(1)+Earphone(1)+BT Idle+WLAN(2.4G)+Camera(Rear)+GSM850
	j: Adaptor(1)+USB(4)+Battery(1)+Earphone(1)+BT Idle+WLAN(5G)+Camera(Rear)+GSM850
	k: Adaptor(1)+USB(5)+Battery(1)+Earphone(1)+BT Idle+WLAN(2.4G)+Camera(Rear)+GSM850
	l: Adaptor(2)+USB(1)+Battery(1)+Earphone(1)+BT Idle+WLAN(5G)+Camera(Rear)+GSM850
	m: Adaptor(3)+USB(1)+Battery(1)+Earphone(1)+BT Idle+WLAN(2.4G)+Camera(Rear)+GSM850
	n: Adaptor(4)+USB(1)+Battery(1)+Earphone(1)+BT Idle+WLAN(5G)+Camera(Rear)+GSM850



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o: Adaptor(5)+USB(1)+Battery(1)+Earphone(1)+BT
Idle+WLAN(2.4G)+Camera(Rear)+GSM850

p: Adaptor(3)+USB(1)+Battery(2)+Earphone(1)+BT
Idle+WLAN(5G)+Camera(Rear)+GSM850

q: Adaptor(3)+USB(1)+Battery(3)+Earphone(1)+BT
Idle+WLAN(2.4G)+Camera(Rear)+GSM850

r: Adaptor(3)+USB(1)+Battery(4)+Earphone(1)+BT
Idle+WLAN(5G)+Camera(Rear)+GSM850

s: Adaptor(3)+USB(1)+Battery(5)+Earphone(1)+BT
Idle+WLAN(2.4G)+Camera(Rear)+GSM850

e: Adaptor(3)+USB(1)+Battery(6)+Earphone(1)+BT
Idle+WLAN(5G)+Camera(Rear)+GSM850

u: Transfer data between the EUT and the
PC+USB(1)+Earphone(1)+Battery(5)+WLAN(2.4G)+Camera(Rear)+GSM850

v: Transfer data between the EUT and the
PC+USB(1)+Earphone(1)+WLAN(2.4G)+Battery(5)+Camera(Rear)+GSM850

The worst case
for final test:

e: Adaptor(3)+USB(1)+Battery(6)+Earphone(1)+BT
Idle+WLAN(5G)+Camera(Rear)+GSM850

u: Transfer data between the EUT and the
PC+USB(1)+Earphone(1)+Battery(5)+WLAN(2.4G)+Camera(Rear)+GSM850



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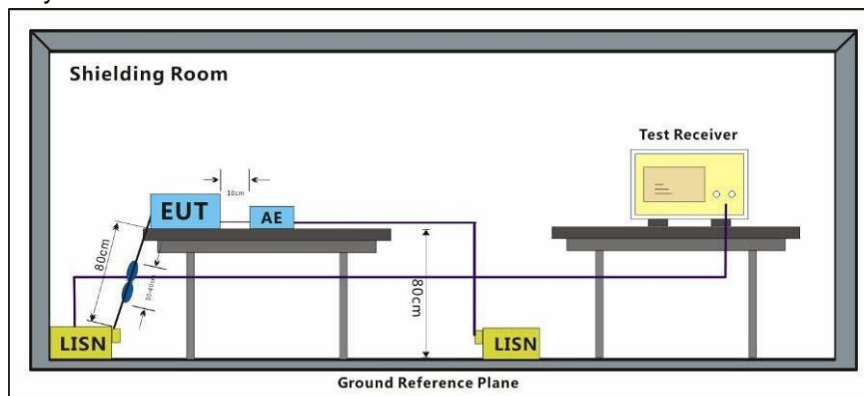
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2.1.2 Test Setup Procedures

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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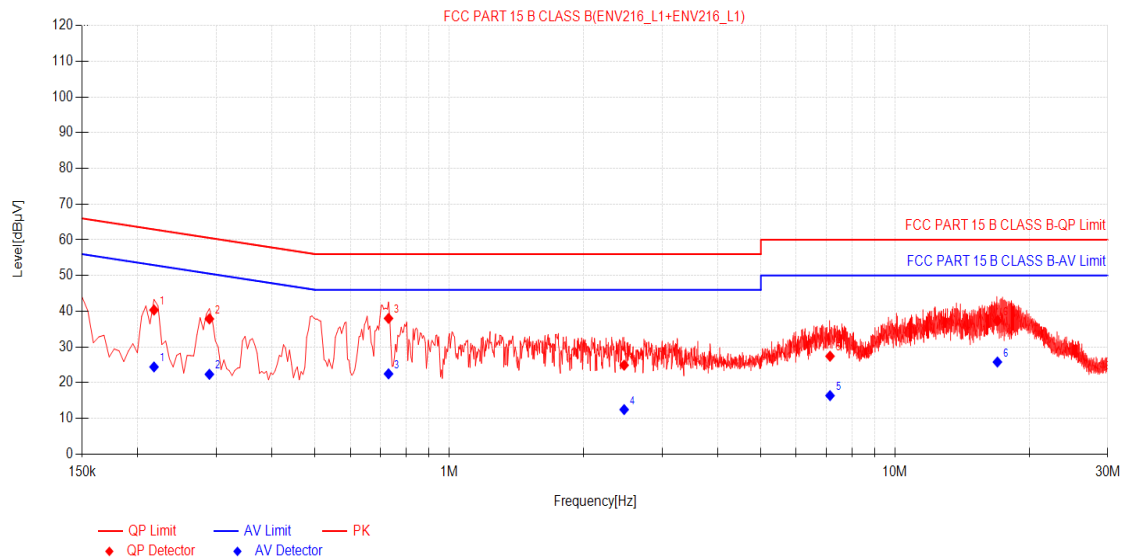
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Mode :e; Line:Live Line



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	0.2175	10.81	40.35	62.91	22.56	24.40	52.91	28.51	PASS
2	0.2895	10.66	37.86	60.54	22.68	22.35	50.54	28.19	PASS
3	0.7305	10.56	38.00	56.00	18.00	22.48	46.00	23.52	PASS
4	2.4675	10.66	24.90	56.00	31.10	12.46	46.00	33.54	PASS
5	7.1475	10.70	27.41	60.00	32.59	16.38	50.00	33.62	PASS
6	16.9710	10.49	37.31	60.00	22.69	25.79	50.00	24.21	PASS



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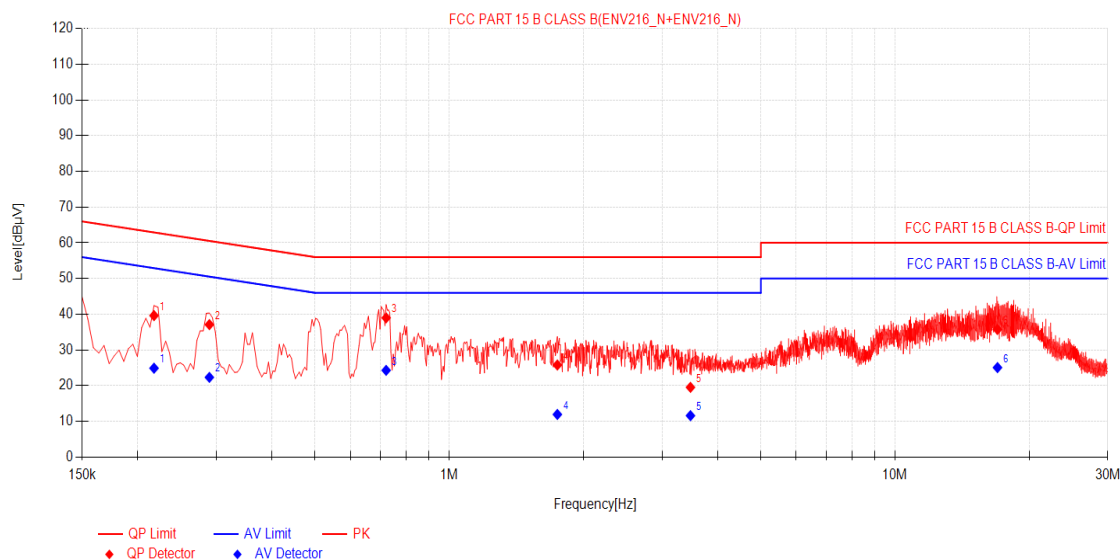
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Mode :e; Line:Neutral Line



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	0.2175	10.68	39.62	62.91	23.29	24.89	52.91	28.02	PASS
2	0.2895	10.74	37.10	60.54	23.44	22.33	50.54	28.21	PASS
3	0.7215	10.81	38.99	56.00	17.01	24.30	46.00	21.70	PASS
4	1.7475	10.76	25.80	56.00	30.20	11.95	46.00	34.05	PASS
5	3.4755	10.66	19.54	56.00	36.46	11.61	46.00	34.39	PASS
6	16.9755	10.52	35.74	60.00	24.26	25.07	50.00	24.93	PASS



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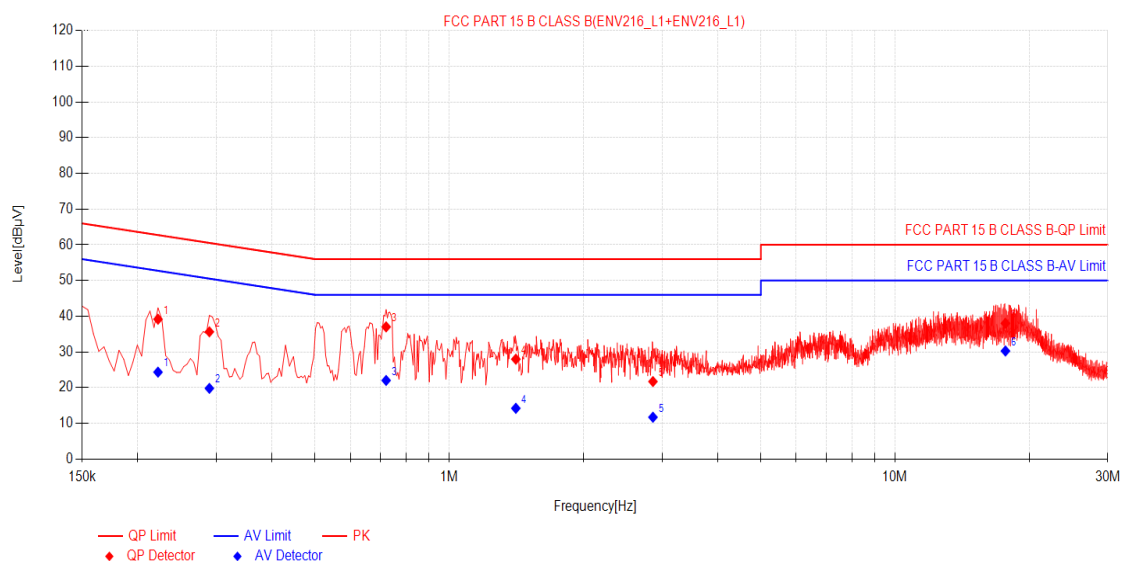
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Mode :u; Line:Live Line



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	0.2220	10.81	39.17	62.74	23.57	24.35	52.74	28.39	PASS
2	0.2895	10.66	35.65	60.54	24.89	19.81	50.54	30.73	PASS
3	0.7215	10.56	37.03	56.00	18.97	22.03	46.00	23.97	PASS
4	1.4100	10.79	27.98	56.00	28.02	14.22	46.00	31.78	PASS
5	2.8635	10.67	21.71	56.00	34.29	11.73	46.00	34.27	PASS
6	17.6910	10.47	38.02	60.00	21.98	30.27	50.00	19.73	PASS



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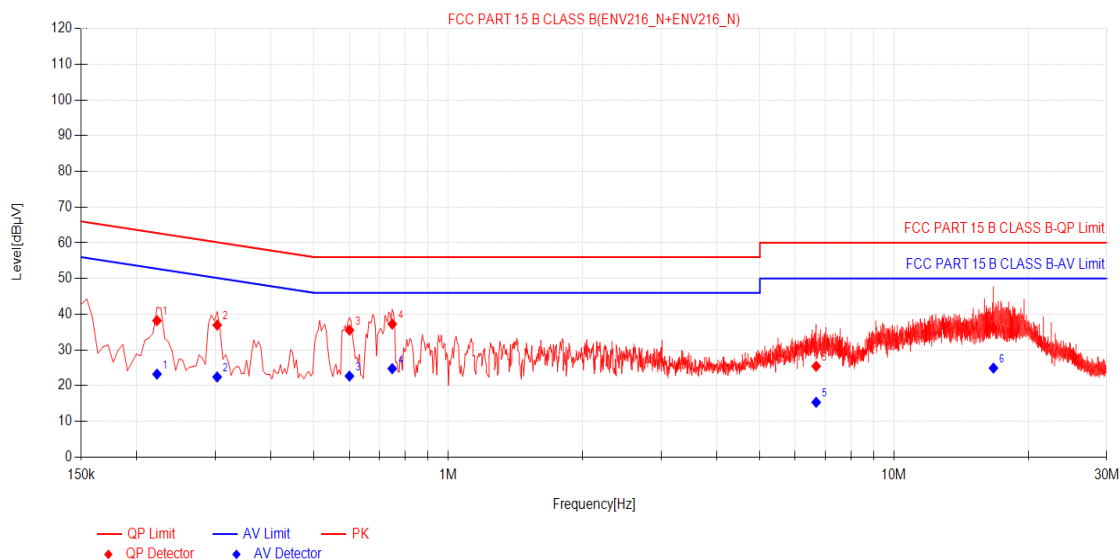
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Mode:u; Line:Neutral Line



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	0.2220	10.69	38.21	62.74	24.53	23.23	52.74	29.51	PASS
2	0.3030	10.76	36.96	60.16	23.20	22.44	50.16	27.72	PASS
3	0.6000	10.68	35.55	56.00	20.45	22.68	46.00	23.32	PASS
4	0.7485	10.81	37.26	56.00	18.74	24.77	46.00	21.23	PASS
5	6.6885	10.54	25.45	60.00	34.55	15.35	50.00	34.65	PASS
6	16.7145	10.53	36.08	60.00	23.92	24.92	50.00	25.08	PASS



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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:101.0 kPa

Pretest these modes to find the worst case:

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

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

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

d: Adaptor(1)+USB(1)+Battery(1)+Earphone(1)+BT
Idle+WLAN(5G)+GPS RX+LTE Band 13

e: Adaptor(1)+USB(1)+Battery(1)+Earphone(1)+BT
Idle+WLAN(2.4G)+FM+LTE Band 26

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

g: Adaptor(1)+USB(1)+Battery(1)+Earphone(3)+BT
Idle+WLAN(2.4G)+Camera(Rear)+GSM850

h: Adaptor(1)+USB(2)+Battery(1)+Earphone(1)+BT
Idle+WLAN(5G)+Camera(Rear)+GSM850

i: Adaptor(1)+USB(3)+Battery(1)+Earphone(1)+BT
Idle+WLAN(2.4G)+Camera(Rear)+GSM850

j: Adaptor(1)+USB(4)+Battery(1)+Earphone(1)+BT
Idle+WLAN(5G)+Camera(Rear)+GSM850

k: Adaptor(1)+USB(5)+Battery(1)+Earphone(1)+BT
Idle+WLAN(2.4G)+Camera(Rear)+GSM850

l: Adaptor(2)+USB(1)+Battery(1)+Earphone(1)+BT
Idle+WLAN(5G)+Camera(Rear)+GSM850

m: Adaptor(3)+USB(1)+Battery(1)+Earphone(1)+BT
Idle+WLAN(2.4G)+Camera(Rear)+GSM850

n: Adaptor(4)+USB(1)+Battery(1)+Earphone(1)+BT
Idle+WLAN(5G)+Camera(Rear)+GSM850

o: Adaptor(5)+USB(1)+Battery(1)+Earphone(1)+BT
Idle+WLAN(2.4G)+Camera(Rear)+GSM850



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p: Adaptor(3)+USB(1)+Battery(2)+Earphone(1)+BT
Idle+WLAN(5G)+Camera(Rear)+GSM850

q: Adaptor(3)+USB(1)+Battery(3)+Earphone(1)+BT
Idle+WLAN(2.4G)+Camera(Rear)+GSM850

r: Adaptor(3)+USB(1)+Battery(4)+Earphone(1)+BT
Idle+WLAN(5G)+Camera(Rear)+GSM850

s: Adaptor(3)+USB(1)+Battery(5)+Earphone(1)+BT
Idle+WLAN(2.4G)+Camera(Rear)+GSM850

e: Adaptor(3)+USB(1)+Battery(6)+Earphone(1)+BT
Idle+WLAN(5G)+Camera(Rear)+GSM850

u: Transfer data between the EUT and the
PC+USB(1)+Earphone(1)+Battery(5)+WLAN(2.4G)+Camera(Rear)+GSM850

v: Transfer data between the EUT and the
PC+USB(1)+Earphone(1)+WLAN(2.4G)+Battery(5)+Camera(Rear)+GSM850

The worst case
for final test:

m: Adaptor(3)+USB(1)+Battery(1)+Earphone(1)+BT
Idle+WLAN(2.4G)+Camera(Rear)+GSM850

v: Transfer data between the EUT and the
PC+USB(1)+Earphone(1)+WLAN(2.4G)+Battery(5)+Camera(Rear)+GSM850



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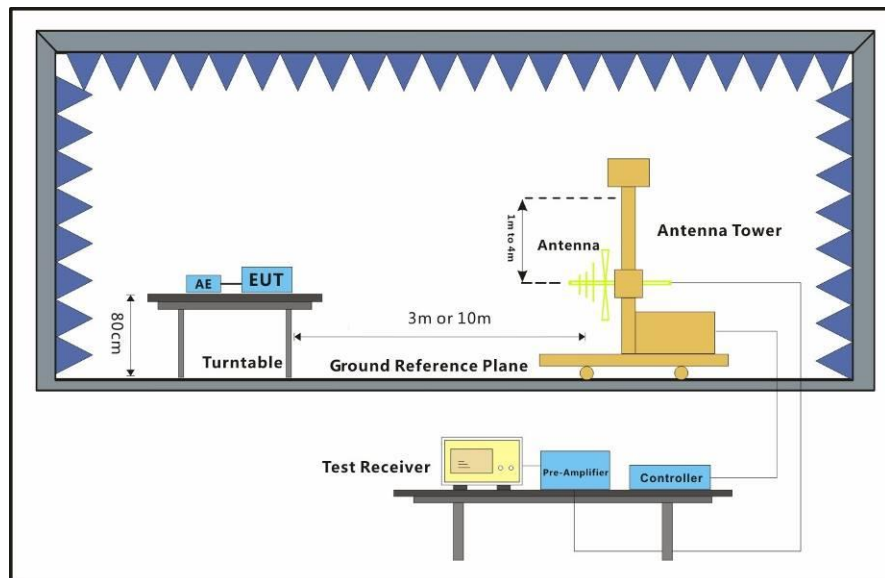
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2.2.2 Test Setup Procedures

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.

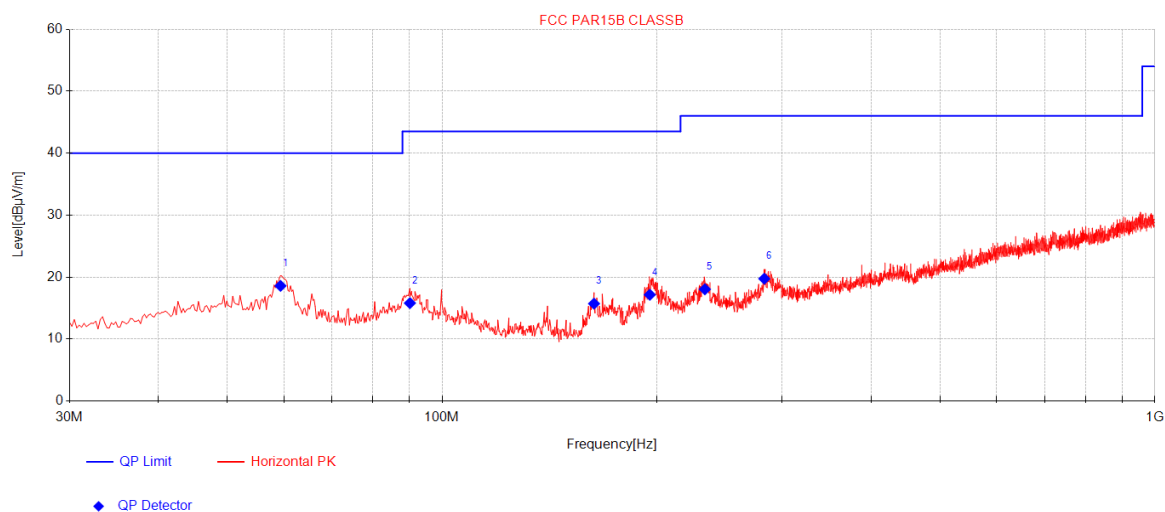
The three polarities of X,Y,Z were measured by EUT, but only the worst data had been displayed.

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Mode :m; 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	59.3425	34.69	-16.10	18.59	40.00	21.41	162	292	Horizontal
2	90.14	33.96	-18.15	15.81	43.50	27.69	185	312	Horizontal
3	163.375	34.55	-18.83	15.72	43.50	27.78	196	68	Horizontal
4	195.6275	34.15	-16.99	17.16	43.50	26.34	245	78	Horizontal
5	233.7	32.68	-14.64	18.04	46.00	27.96	186	57	Horizontal
6	283.17	33.52	-13.78	19.74	46.00	26.26	243	57	Horizontal



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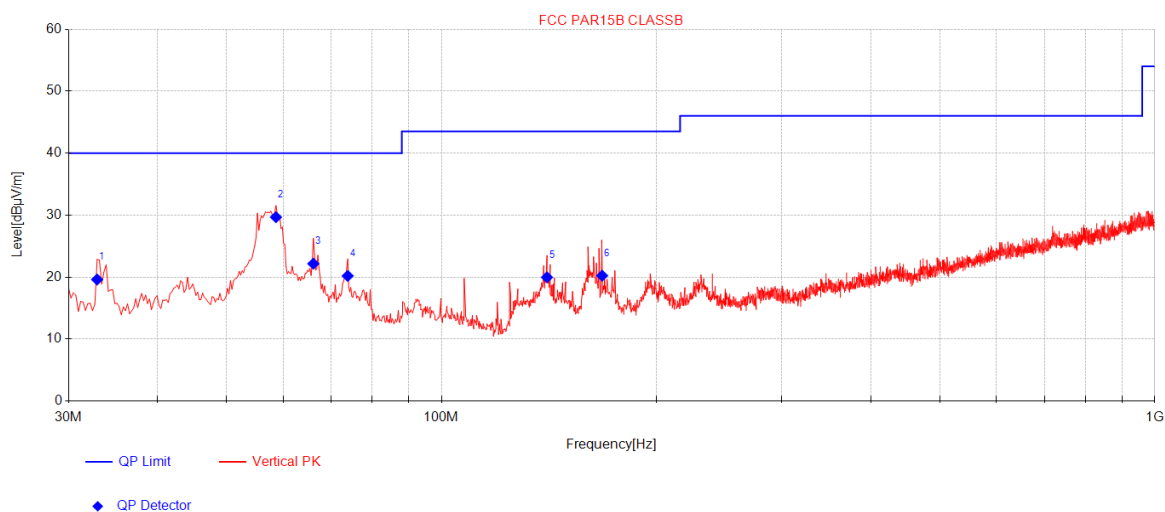
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Mode :m; Polarization:Vertical



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	32.91	37.52	-17.90	19.62	40.00	20.38	162	311	Vertical
2	58.615	45.62	-15.95	29.67	40.00	10.33	185	234	Vertical
3	66.1325	40.12	-17.95	22.17	40.00	17.83	264	261	Vertical
4	73.8925	39.98	-19.78	20.20	40.00	19.80	158	205	Vertical
5	140.58	39.65	-19.68	19.97	43.50	23.53	162	322	Vertical
6	167.9825	38.88	-18.64	20.24	43.50	23.26	211	311	Vertical



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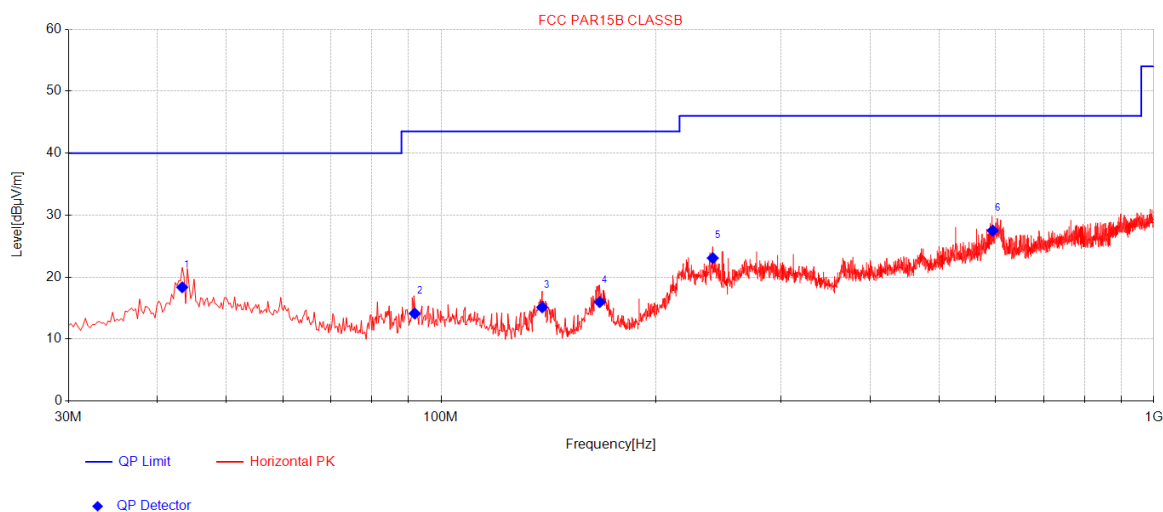
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Mode :v; Polarization:Horizontal



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	43.3375	33.65	-15.29	18.36	40.00	21.64	261	267	Horizontal
2	91.8375	32.01	-17.87	14.14	43.50	29.36	185	227	Horizontal
3	138.64	34.68	-19.55	15.13	43.50	28.37	245	168	Horizontal
4	167.0125	34.66	-18.68	15.98	43.50	27.52	196	10	Horizontal
5	240.49	37.45	-14.37	23.08	46.00	22.92	215	276	Horizontal
6	594.055	33.26	-5.75	27.51	46.00	18.49	165	99	Horizontal



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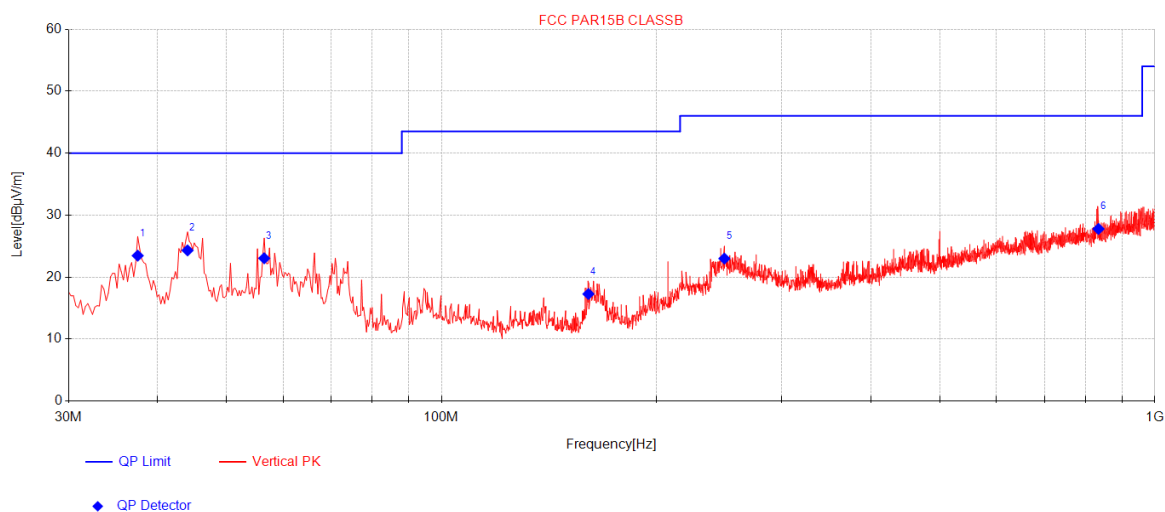
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Mode :v; Polarization:Vertical



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	37.5175	40.26	-16.80	23.46	40.00	16.54	261	2	Vertical
2	44.065	39.45	-15.14	24.31	40.00	15.69	152	154	Vertical
3	56.4325	38.55	-15.51	23.04	40.00	16.96	142	174	Vertical
4	160.7075	36.22	-18.94	17.28	43.50	26.22	162	252	Vertical
5	249.22	37.11	-14.12	22.99	46.00	23.01	121	360	Vertical
6	833.645	30.26	-2.48	27.78	46.00	18.22	102	37	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 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)+Earphone(1)+BT Idle+WLAN(2.4G)+Camera(Rear)+GSM850
- b: Adaptor(1)+USB(1)+Battery(1)+Earphone(1)+BT Idle+WLAN(5G)+Camera(Front)+WCDMA 5
- c: Adaptor(1)+USB(1)+Battery(1)+Earphone(1)+BT Idle+WLAN(2.4G)+MP4+LTE Band 5
- d: Adaptor(1)+USB(1)+Battery(1)+Earphone(1)+BT Idle+WLAN(5G)+GPS RX+LTE Band 13
- e: Adaptor(1)+USB(1)+Battery(1)+Earphone(1)+BT Idle+WLAN(2.4G)+FM+LTE Band 26
- f: Adaptor(1)+USB(1)+Battery(1)+Earphone(2)+BT Idle+WLAN(5G)+(Camera(Rear)+Camera(Rear)+GSM850
- g: Adaptor(1)+USB(1)+Battery(1)+Earphone(3)+BT Idle+WLAN(2.4G)+Camera(Rear)+GSM850
- h: Adaptor(1)+USB(2)+Battery(1)+Earphone(1)+BT Idle+WLAN(5G)+Camera(Rear)+GSM850
- i: Adaptor(1)+USB(3)+Battery(1)+Earphone(1)+BT Idle+WLAN(2.4G)+Camera(Rear)+GSM850
- j: Adaptor(1)+USB(4)+Battery(1)+Earphone(1)+BT Idle+WLAN(5G)+Camera(Rear)+GSM850
- k: Adaptor(1)+USB(5)+Battery(1)+Earphone(1)+BT Idle+WLAN(2.4G)+Camera(Rear)+GSM850
- l: Adaptor(2)+USB(1)+Battery(1)+Earphone(1)+BT Idle+WLAN(5G)+Camera(Rear)+GSM850
- m: Adaptor(3)+USB(1)+Battery(1)+Earphone(1)+BT Idle+WLAN(2.4G)+Camera(Rear)+GSM850
- n: Adaptor(4)+USB(1)+Battery(1)+Earphone(1)+BT Idle+WLAN(5G)+Camera(Rear)+GSM850
- o: Adaptor(5)+USB(1)+Battery(1)+Earphone(1)+BT Idle+WLAN(2.4G)+Camera(Rear)+GSM850
- p: Adaptor(3)+USB(1)+Battery(2)+Earphone(1)+BT Idle+WLAN(5G)+Camera(Rear)+GSM850
- q: Adaptor(3)+USB(1)+Battery(3)+Earphone(1)+BT Idle+WLAN(2.4G)+Camera(Rear)+GSM850



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r: Adaptor(3)+USB(1)+Battery(4)+Earphone(1)+BT
Idle+WLAN(5G)+Camera(Rear)+GSM850

s: Adaptor(3)+USB(1)+Battery(5)+Earphone(1)+BT
Idle+WLAN(2.4G)+Camera(Rear)+GSM850

e: Adaptor(3)+USB(1)+Battery(6)+Earphone(1)+BT
Idle+WLAN(5G)+Camera(Rear)+GSM850

u: Transfer data between the EUT and the
PC+USB(1)+Earphone(1)+Battery(5)+WLAN(2.4G)+Camera(Rear)+GSM850

v: Transfer data between the EUT and the
PC+USB(1)+Earphone(1)+WLAN(2.4G)+Battery(5)+Camera(Rear)+GSM850

The worst case
for final test:

n: Adaptor(4)+USB(1)+Battery(1)+Earphone(1)+BT
Idle+WLAN(5G)+Camera(Rear)+GSM850

v: Transfer data between the EUT and the
PC+USB(1)+Earphone(1)+WLAN(2.4G)+Battery(5)+Camera(Rear)+GSM850



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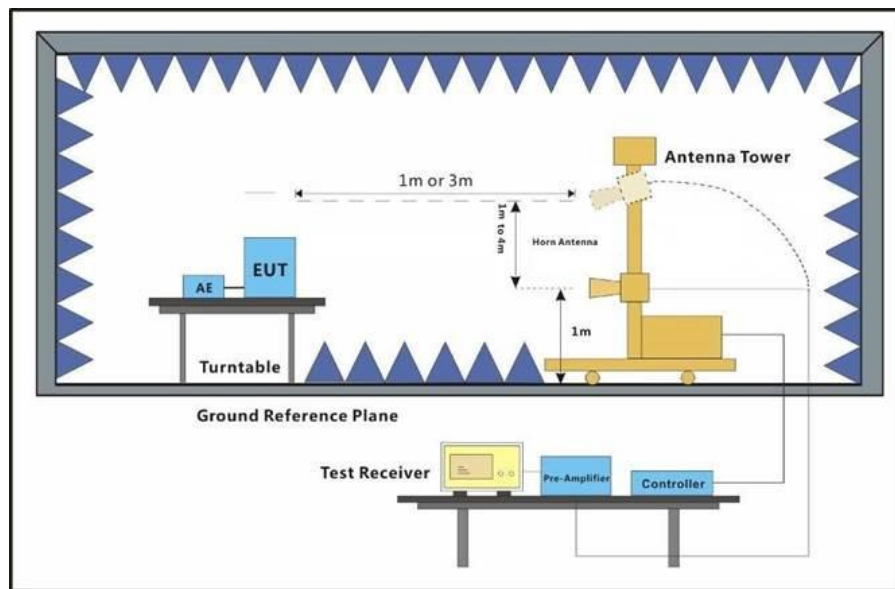
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2.3.2 Test Setup Procedures

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.

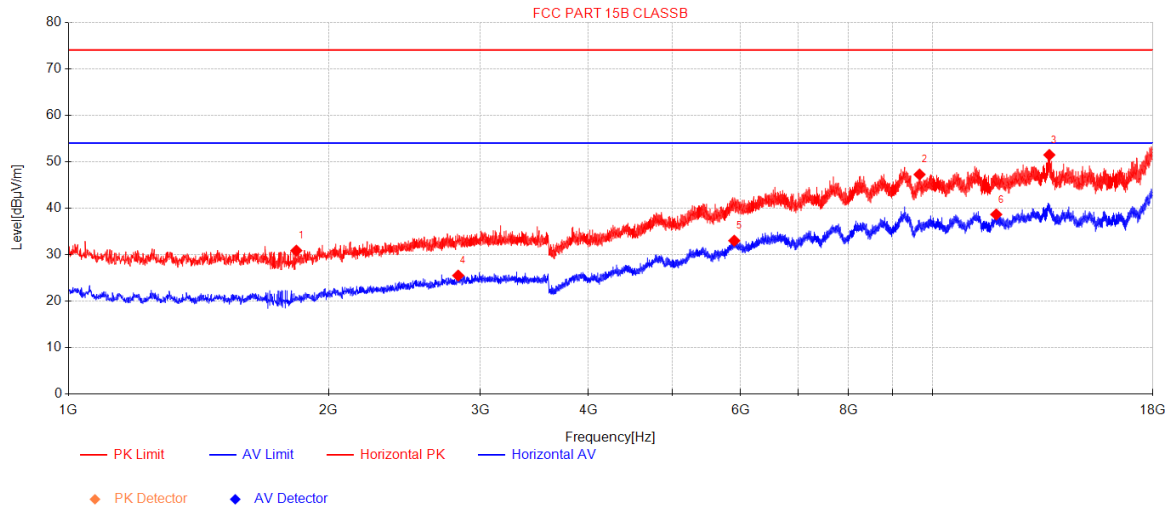
Scan from 1GHz to 30GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed.

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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	1836.4	53.38	30.87	-22.51	74.00	43.13	196	149	Horizontal
2	9664.05	46.30	47.23	0.93	74.00	26.77	264	3	Horizontal
3	13656.5	46.12	51.44	5.32	74.00	22.56	185	100	Horizontal
4	2826.65	43.20	25.50	-17.70	54.00	28.50	294	51	Horizontal
5	5898.55	42.33	33.00	-9.33	54.00	21.00	185	198	Horizontal
6	11854.5	34.99	38.64	3.65	54.00	15.36	122	77	Horizontal



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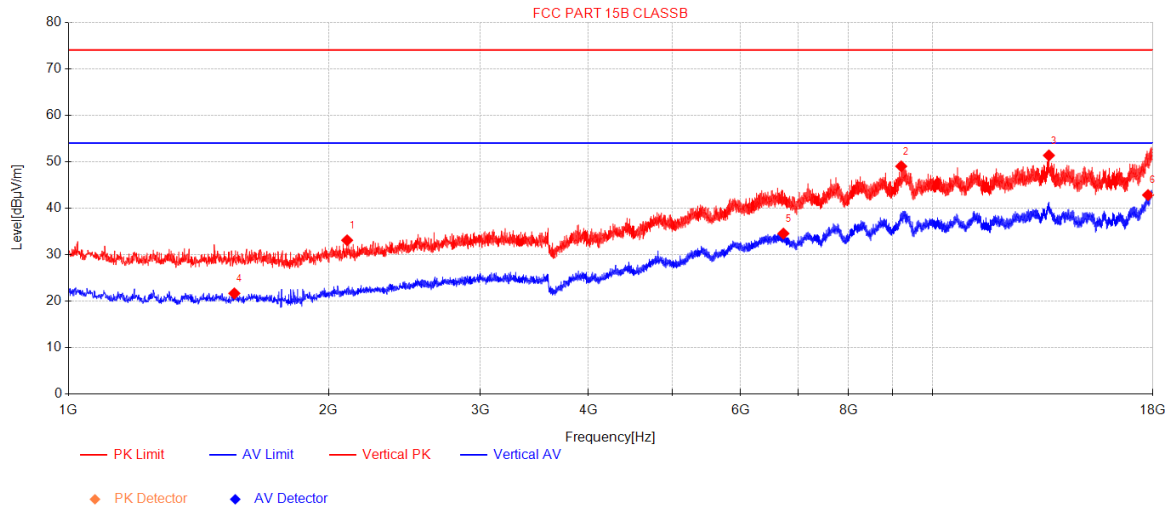
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Mode :n; Polarization:Vertical



Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2102.45	53.86	33.09	-20.77	74.00	40.91	196	357	Vertical
2	9203.35	48.74	48.99	0.25	74.00	25.01	215	35	Vertical
3	13640.35	45.94	51.33	5.39	74.00	22.67	361	237	Vertical
4	1556.75	44.62	21.67	-22.95	54.00	32.33	185	137	Vertical
5	6723.05	41.71	34.53	-7.18	54.00	19.47	147	357	Vertical
6	17763.7	32.06	42.82	10.76	54.00	11.18	248	2	Vertical



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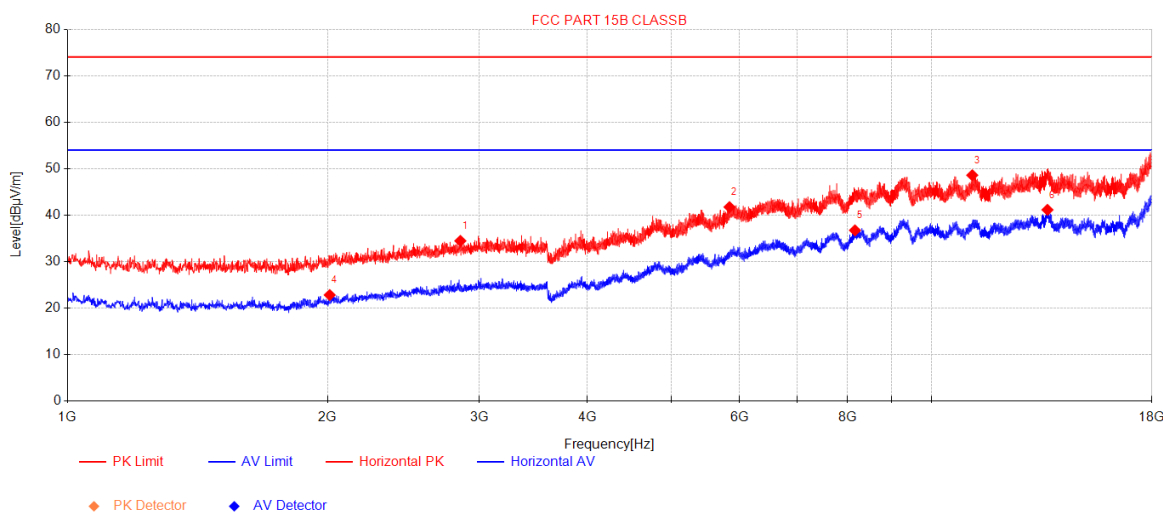
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Mode :v; Polarization:Horizontal



Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2850.45	52.11	34.46	-17.65	74.00	39.54	261	268	Horizontal
2	5839.9	51.43	41.73	-9.70	74.00	32.27	185	344	Horizontal
3	11150.7	44.57	48.59	4.02	74.00	25.41	214	49	Horizontal
4	2012.35	43.96	22.83	-21.13	54.00	31.17	255	295	Horizontal
5	8157.85	39.58	36.73	-2.85	54.00	17.27	155	344	Horizontal
6	13624.2	35.67	41.14	5.47	54.00	12.86	185	74	Horizontal



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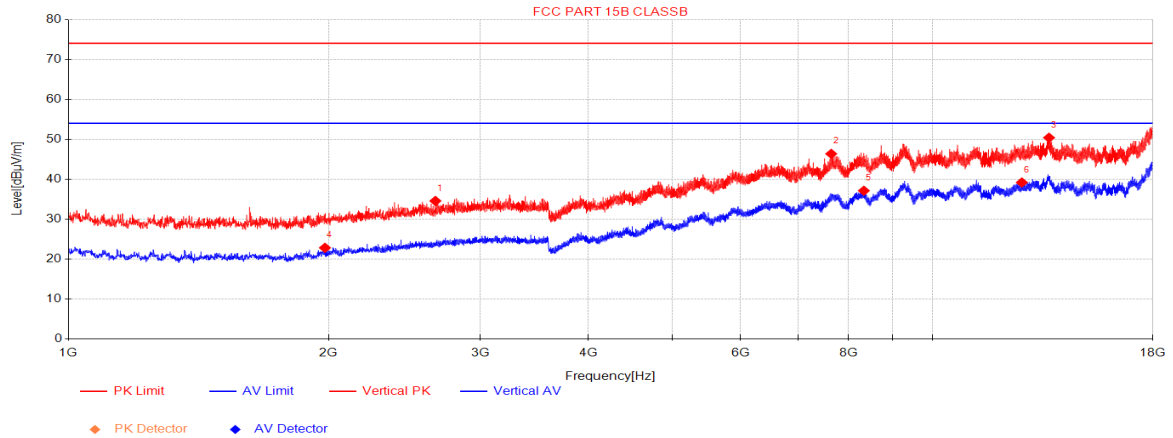
t (86-512) 62992980 www.sgs.com.cn
t (86-512) 62992980 sgs.china@sgs.com

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Mode :v; Polarization:Vertical



Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2660.05	53.25	34.56	-18.69	74.00	39.44	169	264	Vertical
2	7637.65	51.01	46.35	-4.66	74.00	27.65	185	17	Vertical
3	13646.3	45.01	50.38	5.37	74.00	23.62	214	17	Vertical
4	1981.75	44.15	22.84	-21.31	54.00	31.16	185	288	Vertical
5	8331.25	39.71	37.12	-2.59	54.00	16.88	266	312	Vertical
6	12691.75	35.16	39.18	4.02	54.00	14.82	184	264	Vertical



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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
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6号厂房南部 邮编: 215000

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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
				2022/2/19	2023/2/18
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
				2022/2/19	2023/2/18
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
				2022/2/19	2023/2/18
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
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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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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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6号厂房南部 邮编: 215000

t (86-512) 62992980 www.ssgroup.com.cn
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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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