

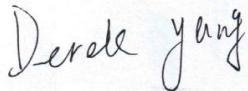
TEST REPORT

Application No: ZR/2020/C0034
Applicant: Sony Mobile Communications, Inc.
Address of Applicant: 4-12-3 Higashi-shinagawa, Shinagawa-ku, Tokyo, 140-0002, Japan
Manufacturer: Sony Mobile Communications, Inc.
Address of Manufacturer: 4-12-3 Higashi-shinagawa, Shinagawa-ku, Tokyo, 140-0002, Japan
EUT Description: GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac, GPS and NFC
Trade Mark: Sony
FCC ID: PY7-54955X
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2020/12/11
Date of Test: 2020/12/11 to 2021/1/12
Date of Issue: 2021/3/16

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Derek Yang

Wireless Laboratory Manager

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021/1/12		Original
02		2021/2/4		Update contents and individual sections
03		2021/3/11		Update test condition
04		2021/3/16		Comment Revised
05		2021/3/23		Remove FM

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Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (above 1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass

Internal Source	Upper Frequency
Below 1.705MHz	30MHz
1.705MHz to 108MHz	1GHz
108MHz to 500MHz	2GHz
500MHz to 1GHz	5GHz
Above 1GHz	5th harmonic of the highest frequency or 40GHz, whichever is lower

Checked By

Test By

David Chen

Daniel Wang

David Chen
ReviewerDaniel Wang
Project Engineer

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1 General Information

EUT Description:	GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac, GPS and NFC		
Trade Mark:	Sony		
S/N:	005059ADNVM2		
Frequency Bands:	Band	Tx (MHz)	Rx (MHz)
	GSM850	824~849	869~894
	GSM1900	1850~1910	1930~1990
	WCDMA Band IV	1710~1755	2110~2155
	WCDMA Band V	824~849	869~894
	LTE Band 4	1710~1755	2110~2155
	LTE Band 5	824~849	869~894
	LTE Band 41	2496 to 2690	2496 to 2690
	Wi-Fi 2.4G	2400~2483.5	2400~2483.5
	Bluetooth	2400~2483.5	2400~2483.5
	Wi-Fi 5G	5150~5850	5150~5850
	GNSS(GPS/Glonass/Beidou/Galileo)	1559~1610	
	NFC	13.56	

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Accessory:

Description	Model No.
Adapter1	UCH-32
Earphone1	MH750
Earphone2	SBH82D
USB cable1	UCB24
USB cable2	UCB20

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1.1 Description of Support Units

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

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

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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2 Emission Test Results

2.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement:	47 CFR Part 15, Subpart B
Test Method:	ANSI C63.4:2014
Frequency Range:	150kHz to 30MHz
Limit:	
0.15M-0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
0.5M-5MHz	56dB(μV) quasi-peak, 46dB(μV) average
5M-30MHz	60dB(μV) quasi-peak, 50dB(μV) average
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

2.1.1 E.U.T. Operation

Operating Environment:

Temperature: 18.9 °C Humidity: 55.1 % RH Atmospheric Pressure: 1000 mbar

Pretest these modes to find the worst case:

- a: Transfer data between the EUT and the PC+USB cable1
- b: Transfer data between the EUT and the PC+USB cable2
- c: GSM 850 Idle+BT+2.4G WLAN + NFC +GPS Rx + playing MP4 +earphone1 +Cable(worst)+adapter1
- d: WCDMA Band V Idle+BT+5G WLAN + NFC +GPS Rx + playing MP4 +earphone2 + Cable(worst)+adapter1
- e: LTE Band 5 Idle+BT+5G WLAN + NFC +GPS Rx + camera (Back) +earphone(worst) + Cable(worst)+adapter1
- f: LTE Band 5 Idle+BT+ 2.4G WLAN + NFC +GPS Rx + camera (Front) +earphone(worst) + Cable(worst)+adapter1

The worst case for final test:

- d: WCDMA Band V Idle+BT+5G WLAN + NFC +GPS Rx + playing MP4 +earphone2 + Cable(worst)+adapter1
- a: Transfer data between the EUT and the PC+USB cable1

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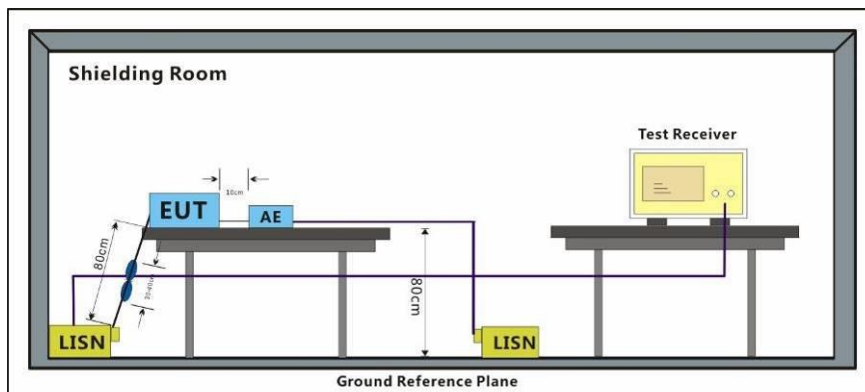
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2.1.2 Test Setup Diagram



2.1.3 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

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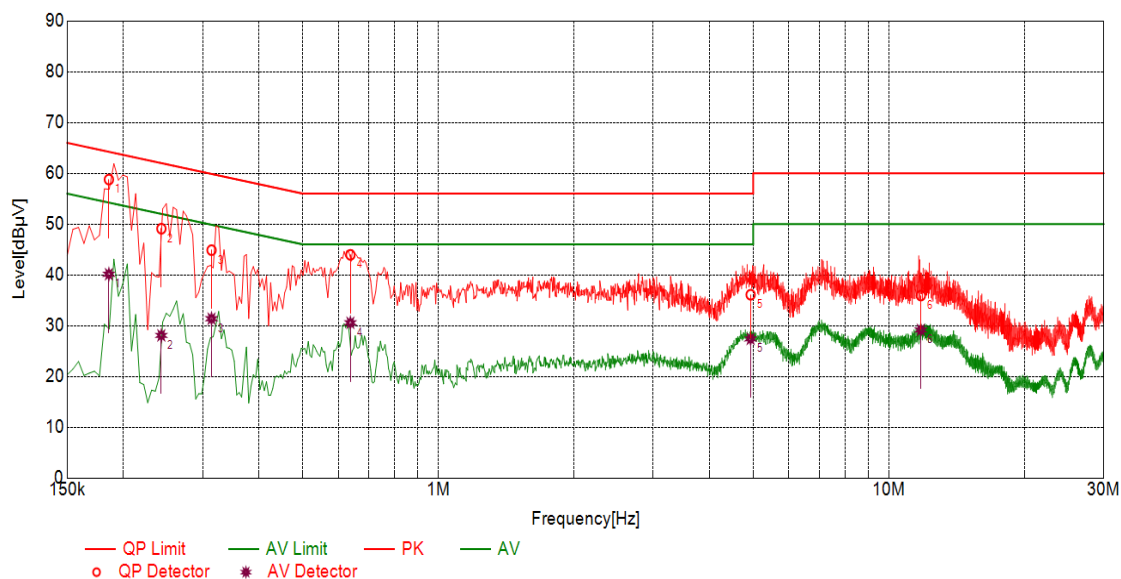
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Mode: d; Line:Live Line



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]
1	0.1857	10.10	58.77	64.22	5.45	40.13	54.22	14.09
2	0.2428	10.10	49.10	62.00	12.90	28.08	52.00	23.92
3	0.3138	10.10	44.87	59.87	15.00	31.37	49.87	18.50
4	0.6381	10.10	43.94	56.00	12.06	30.56	46.00	15.44
5	4.9340	10.10	36.09	56.00	19.91	27.40	46.00	18.60
6	11.7762	10.10	35.92	60.00	24.08	29.15	50.00	20.85

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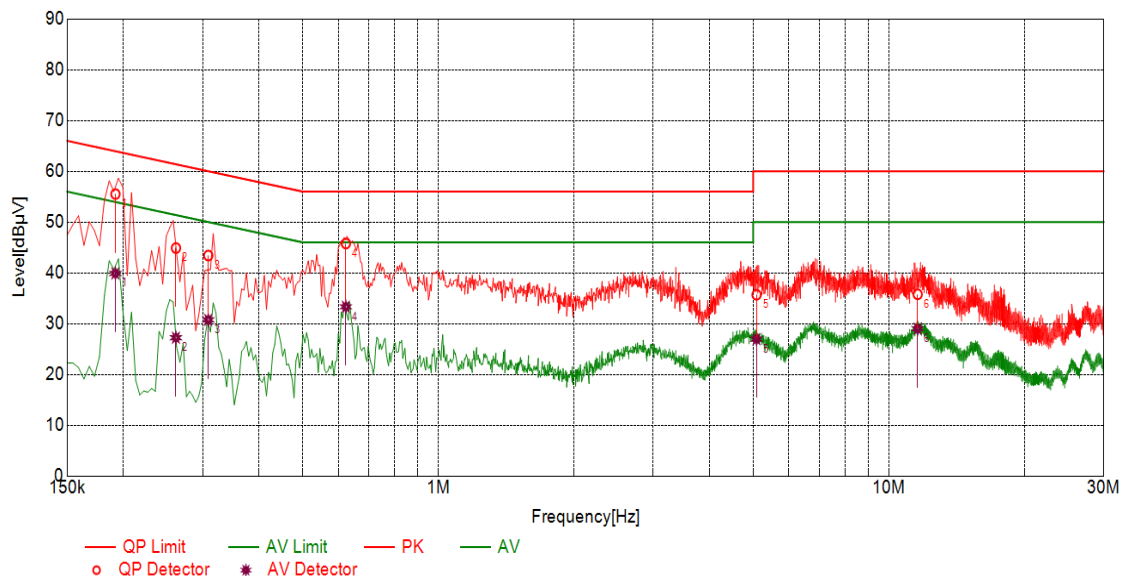
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Mode:d; Line:Neutral Line



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]
1	0.1920	10.10	55.51	63.95	8.44	39.89	53.95	14.06
2	0.2616	10.10	44.89	61.38	16.49	27.23	51.38	24.15
3	0.3086	10.10	43.41	60.01	16.60	30.74	50.01	19.27
4	0.6234	10.10	45.78	56.00	10.22	33.32	46.00	12.68
5	5.0851	10.10	35.70	60.00	24.30	26.95	50.00	23.05
6	11.5876	10.10	35.78	60.00	24.22	29.00	50.00	21.00

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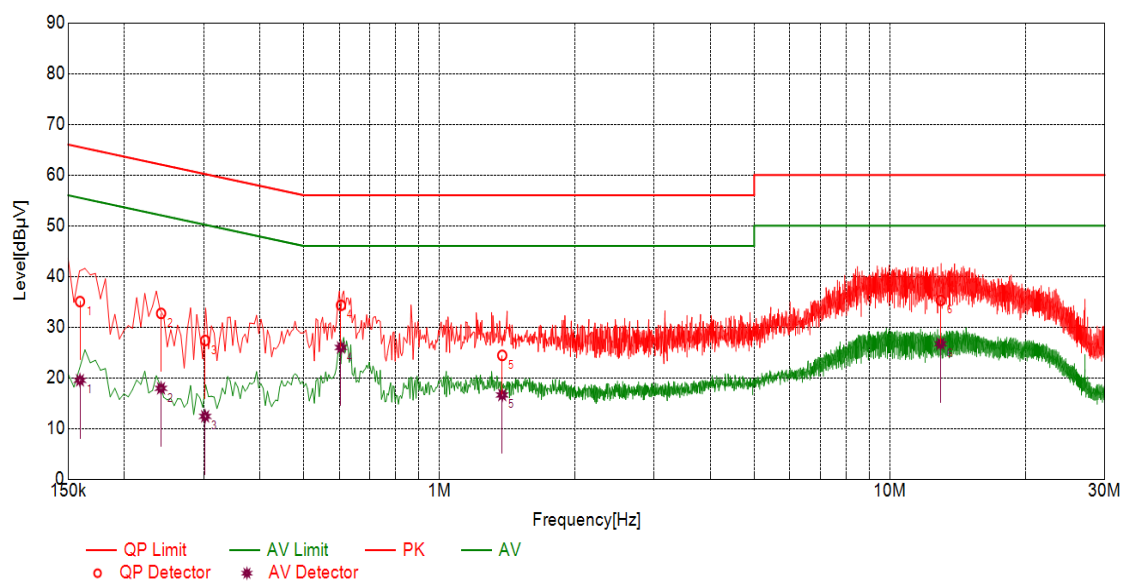
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Mode: a; Line:Live Line



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]
1	0.1594	10.10	35.04	65.49	30.45	19.51	55.49	35.98
2	0.2412	10.10	32.71	62.06	29.35	17.93	52.06	34.13
3	0.3022	10.10	27.37	60.18	32.81	12.40	50.18	37.78
4	0.6048	10.10	34.30	56.00	21.70	25.98	46.00	20.02
5	1.3792	10.10	24.42	56.00	31.58	16.61	46.00	29.39
6	12.9691	10.11	35.28	60.00	24.72	26.72	50.00	23.28

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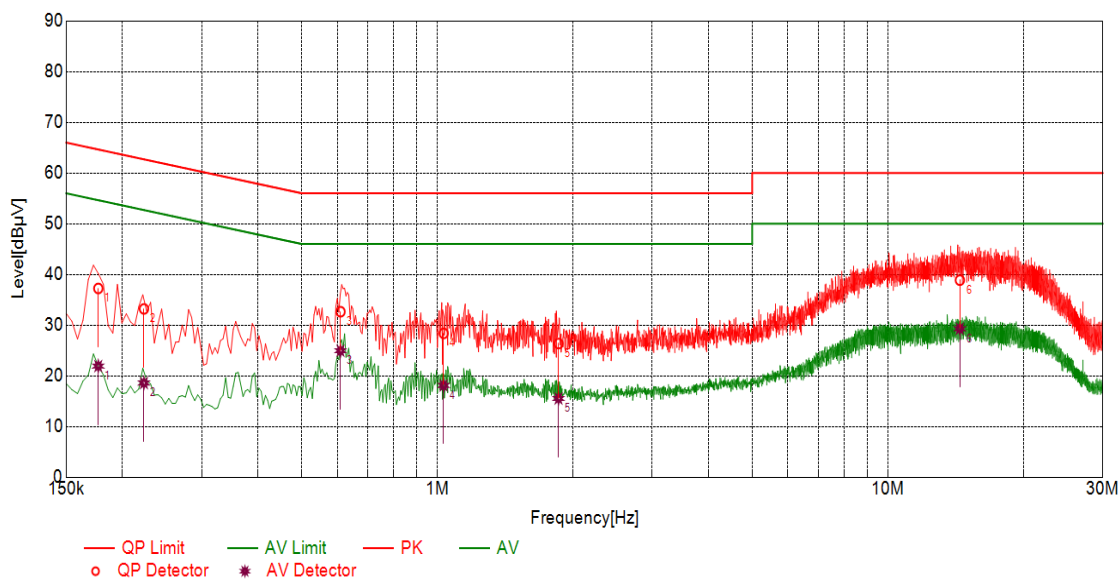
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邮编 710086 sgs.china@sgs.com

Mode:a; 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]
1	0.1768	10.10	37.23	64.63	27.40	21.92	54.63	32.71
2	0.2233	10.10	33.20	62.70	29.50	18.58	52.70	34.12
3	0.6097	10.10	32.65	56.00	23.35	24.95	46.00	21.05
4	1.0328	10.10	28.38	56.00	27.62	18.10	46.00	27.90
5	1.8580	10.10	26.37	56.00	29.63	15.53	46.00	30.47
6	14.4470	10.11	38.87	60.00	21.13	29.29	50.00	20.71

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邮编 710086 sgs.china@sgs.com

2.2 Radiated Emissions (30MHz-1GHz)

Test Requirement:	47 CFR Part 15, Subpart B
Test Method:	ANSI C63.4:2014
Frequency Range:	30MHz to 1GHz
Measurement Distance:	3m
Limit:	
30MHz -88MHz	40.0(dBμV/m) quasi-peak
88MHz-216MHz	43.5(dBμV/m) quasi-peak
216MHz-960MHz	46.0(dBμV/m) quasi-peak
960MHz-1000MHz	54.0(dBμV/m) quasi-peak
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz

2.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 66.5 % RH Atmospheric Pressure: 1010 mbar

Pretest these modes to find the worst case:

- a: Transfer data between the EUT and the PC+USB cable1
- b: Transfer data between the EUT and the PC+USB cable2
- c: GSM 850 Idle+BT+2.4G WLAN + NFC +GPS Rx + playing MP4 +earphone1 +Cable(worst)+adapter1
- d: WCDMA Band V Idle+BT+5G WLAN + NFC +GPS Rx + playing MP4 +earphone2 + Cable(worst)+adapter1
- e: LTE Band 5 Idle+BT+5G WLAN + NFC +GPS Rx + camera (Back) +earphone(worst) + Cable(worst)+adapter1
- f: LTE Band 5 Idle+BT+ 2.4G WLAN + NFC +GPS Rx + camera (Front) +earphone(worst) + Cable(worst)+adapter1

The worst case for final test:

- a: Transfer data between the EUT and the PC+USB cable1
- e: LTE Band 5 Idle+BT+5G WLAN + NFC +GPS Rx + camera (Back) +earphone(worst) + Cable(worst)+adapter1

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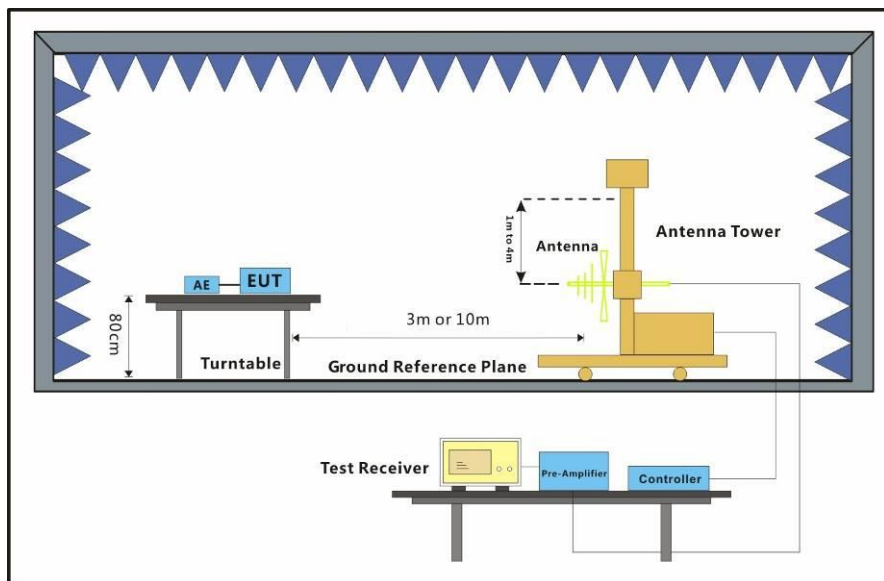
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邮编 710086 sgs.china@sgs.com

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. Three orthogonal axes of X,Y,Z are tested by EUT using BiConiLog antenna with 2 orthogonal polarities, but only the worst data had been displayed

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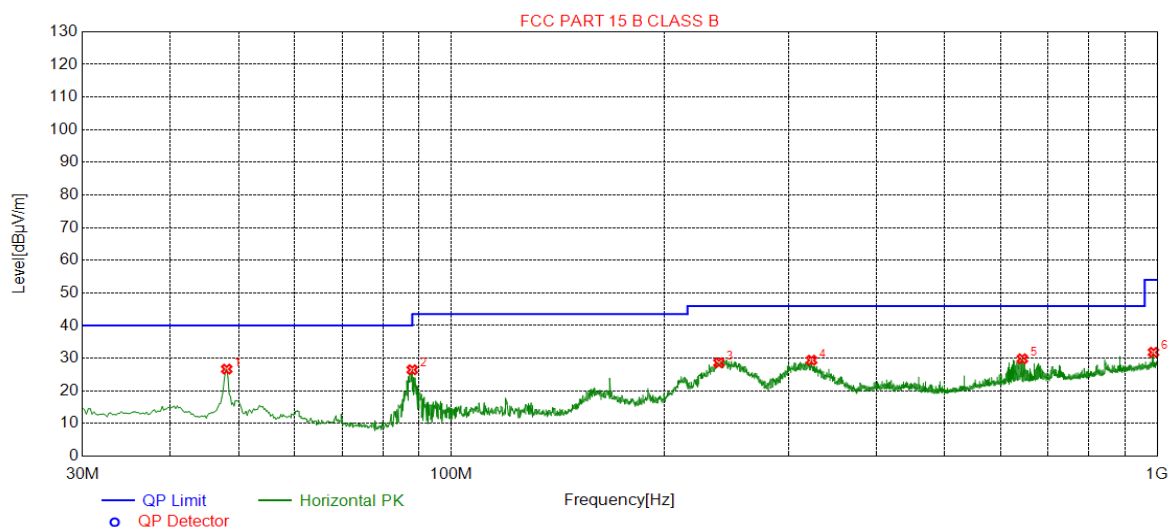
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Mode:a; Polarization:Horizontal

**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	48.0456	26.68	40.00	13.32	377	332	Horizontal
2	88.0176	26.47	43.50	17.03	213	24	Horizontal
3	239.3679	28.61	46.00	17.39	228	268	Horizontal
4	323.7748	29.40	46.00	16.60	263	78	Horizontal
5	643.9388	29.83	46.00	16.17	121	55	Horizontal
6	987.9696	31.82	54.00	22.18	296	44	Horizontal

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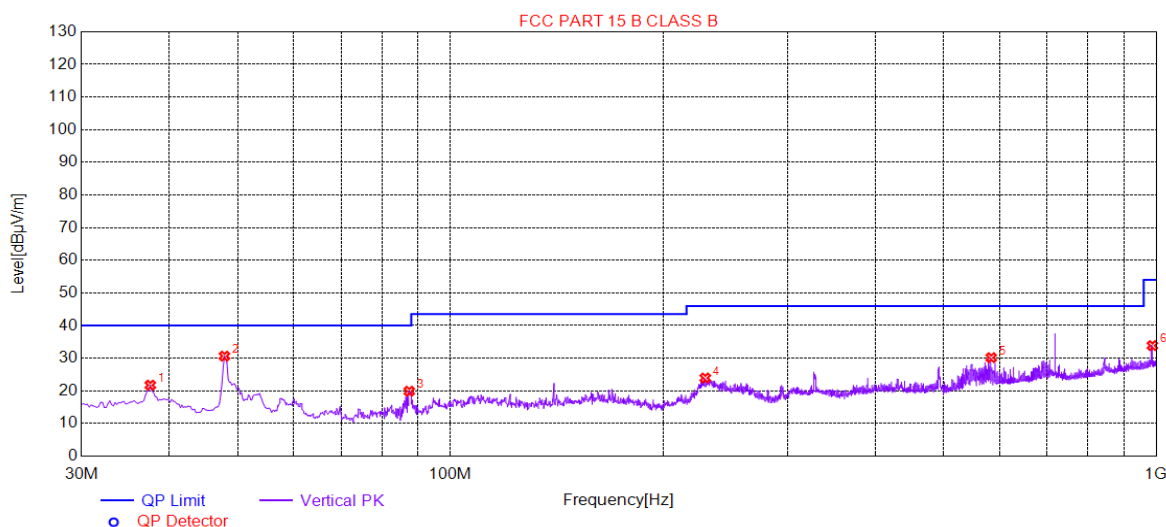
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Mode:a; Polarization:Vertical



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	37.5675	21.76	40.00	18.24	201	291	Vertical
2	47.8516	30.65	40.00	9.35	152	31	Vertical
3	87.4355	19.91	40.00	20.09	207	311	Vertical
4	229.6659	23.95	46.00	22.05	124	346	Vertical
5	583.7868	30.19	46.00	15.81	392	142	Vertical
6	987.7756	33.88	54.00	20.12	132	352	Vertical

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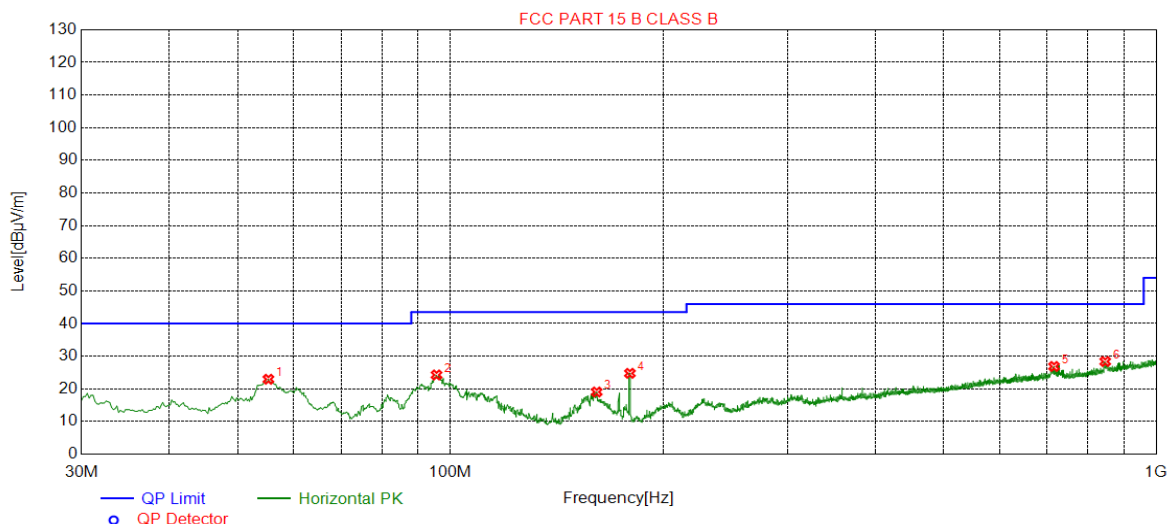
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Mode: e; Polarization:Horizontal



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	55.2250	22.95	40.00	17.05	273	24	Horizontal
2	95.5851	24.27	43.50	19.23	174	76	Horizontal
3	161.1702	19.06	43.50	24.44	179	283	Horizontal
4	179.6039	24.78	43.50	18.72	191	294	Horizontal
5	716.5093	26.88	46.00	19.12	167	190	Horizontal
6	846.7093	28.39	46.00	17.61	276	48	Horizontal

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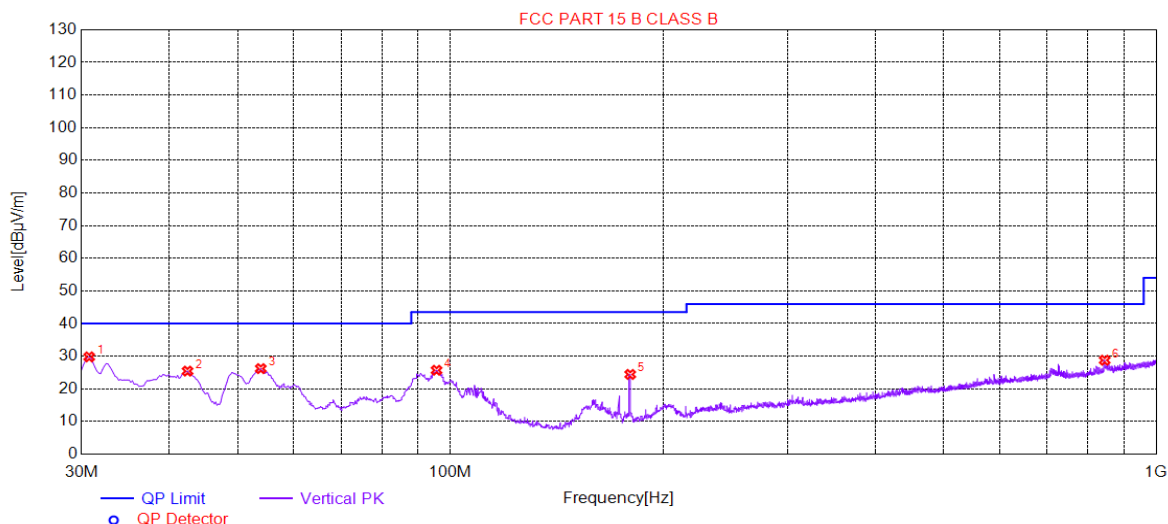
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Mode:e; Polarization:Vertical



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	30.7762	29.81	40.00	10.19	167	54	Vertical
2	42.4185	25.45	40.00	14.55	279	14	Vertical
3	53.8668	26.22	40.00	13.78	130	14	Vertical
4	95.5851	25.71	43.50	17.79	118	92	Vertical
5	179.7980	24.44	43.50	19.06	343	345	Vertical
6	845.3511	28.79	46.00	17.21	303	246	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 30000MHz

2.3.1 E.U.T. Operation

Operating Environment:

Temperature: 21.7 °C Humidity: 56.4 % RH Atmospheric Pressure: 1010 mbar

Pretest these modes to find the worst case:

- a: Transfer data between the EUT and the PC+USB cable1
- b: Transfer data between the EUT and the PC+USB cable2
- c: GSM 850 Idle+BT+2.4G WLAN + NFC +GPS Rx + playing MP4 +earphone1 +Cable(worst)+adapter1
- d: WCDMA Band V Idle+BT+5G WLAN + NFC +GPS Rx + playing MP4 +earphone2 + Cable(worst)+adapter1
- e: LTE Band 5 Idle+BT+5G WLAN + NFC +GPS Rx + camera (Back) +earphone(worst) + Cable(worst)+adapter1
- f: LTE Band 5 Idle+BT+ 2.4G WLAN + NFC +GPS Rx + camera (Front) +earphone(worst) + Cable(worst)+adapter1

The worst case for final test:

- c: GSM 850 Idle+BT+2.4G WLAN + NFC +GPS Rx + playing MP4 +earphone1 +Cable(worst)+adapter1
- a: Transfer data between the EUT and the PC+USB cable1

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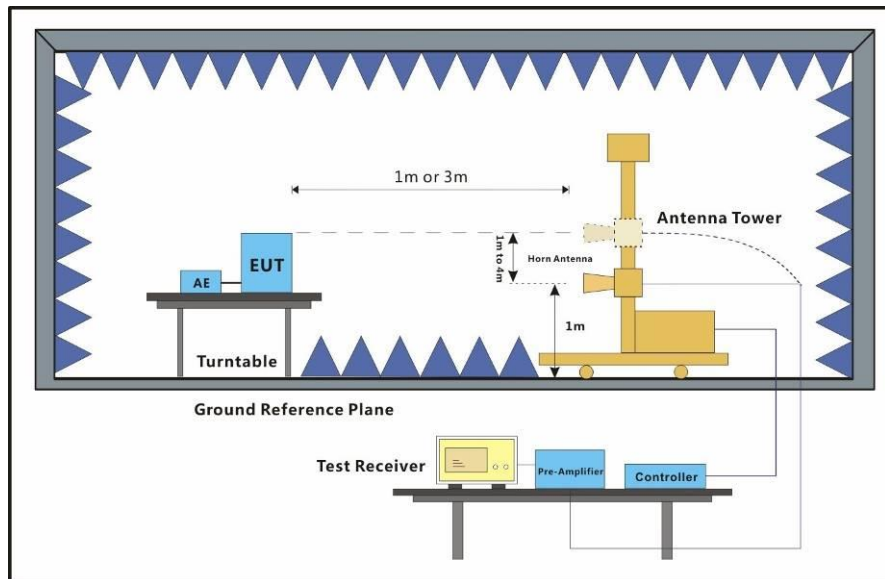
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2.3.2 Test Setup Diagram



2.3.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. Three orthogonal axes of X,Y,Z are tested by EUT using Horn antenna with 2 orthogonal polarities, but only the worst data had been displayed.

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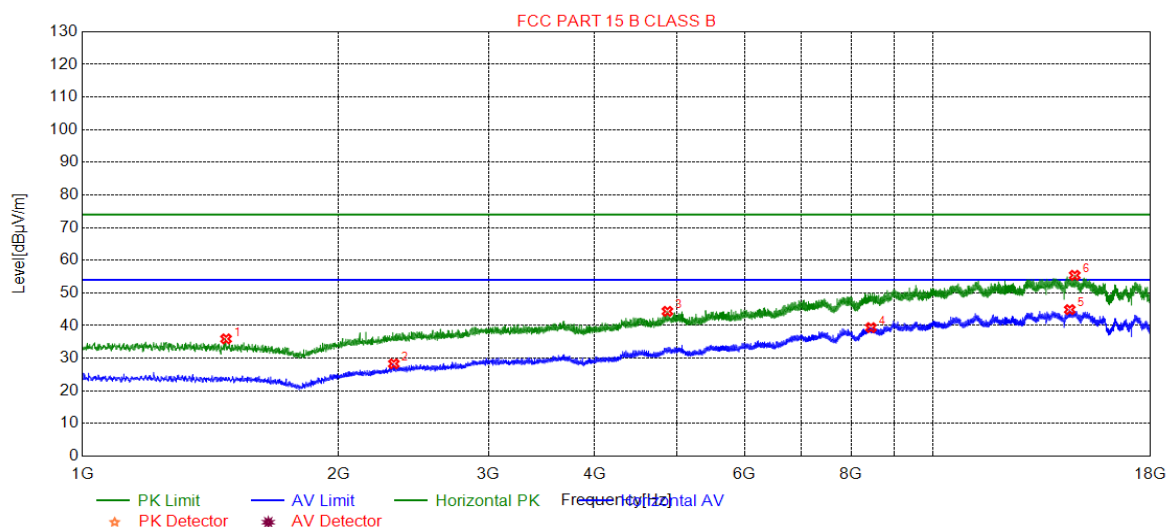
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邮编 710086 sgs.china@sgs.com

Mode:c; Polarization:Horizontal



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1475.173	35.93	74.00	38.07	174	128	Horizontal
2	2322.666	28.31	54.00	25.69	386	316	Horizontal
3	4869.393	44.37	74.00	29.63	119	358	Horizontal
4	8445.522	39.38	54.00	14.62	218	252	Horizontal
5	14462.97	44.89	54.00	9.11	354	20	Horizontal
6	14659.33	55.41	74.00	18.59	181	150	Horizontal

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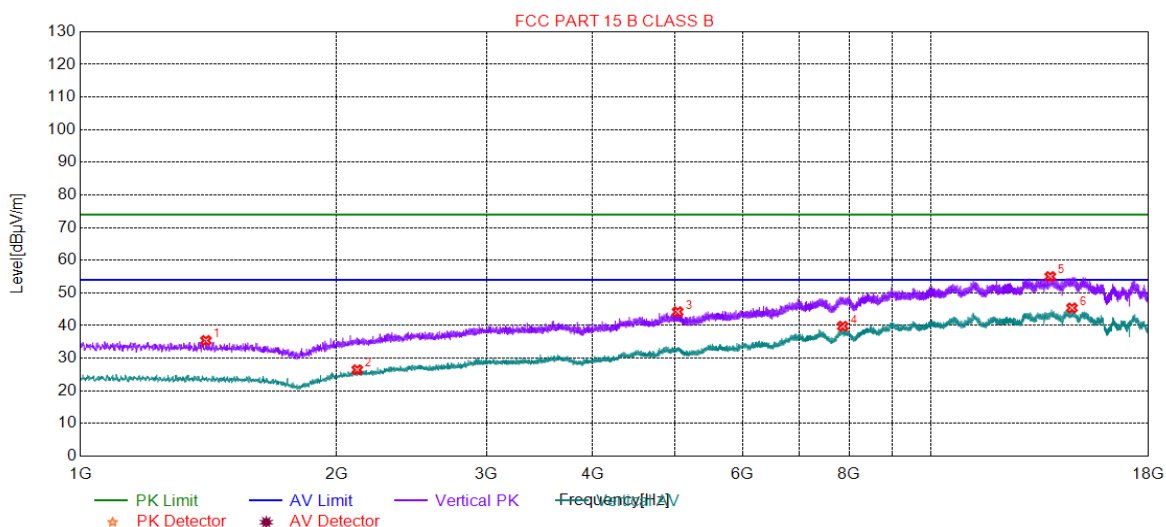
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Mode:c; Polarization:Vertical



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1404.620	35.45	74.00	38.55	395	294	Vertical
2	2115.255	26.46	54.00	27.54	362	344	Vertical
3	5033.451	44.24	74.00	29.76	389	130	Vertical
4	7867.493	39.81	54.00	14.19	295	166	Vertical
5	13794.83	55.03	74.00	18.97	160	65	Vertical
6	14628.73	45.41	54.00	8.59	340	16	Vertical

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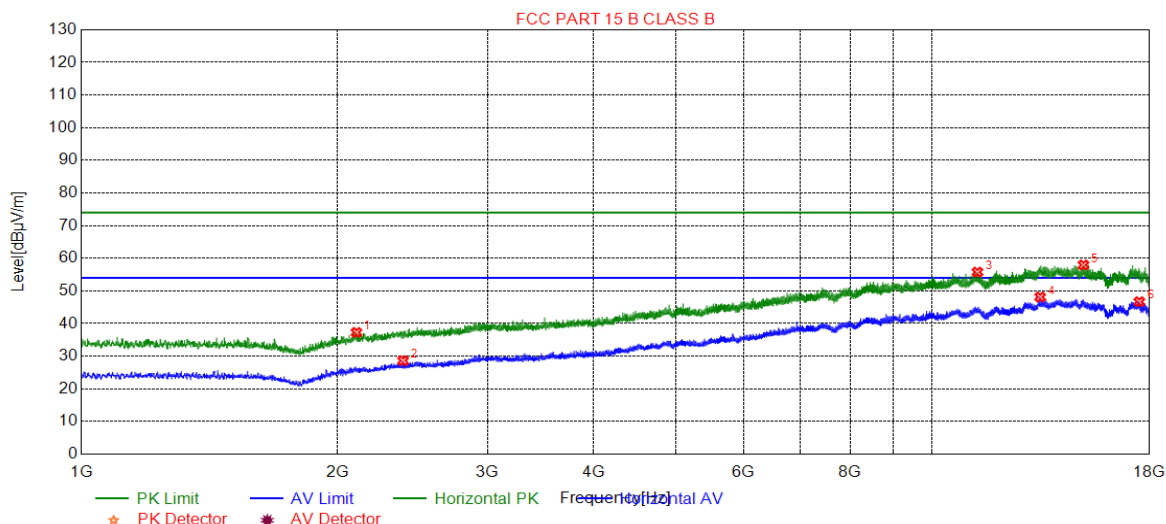
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Mode:a; Polarization:Horizontal



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2105.055	37.29	74.00	36.71	338	360	Horizontal
2	2388.119	28.62	54.00	25.38	378	0	Horizontal
3	11296.56	55.77	74.00	18.23	326	170	Horizontal
4	13386.81	48.14	54.00	5.86	350	301	Horizontal
5	15048.65	57.96	74.00	16.04	396	257	Horizontal
6	17505.27	46.70	54.00	7.30	296	344	Horizontal

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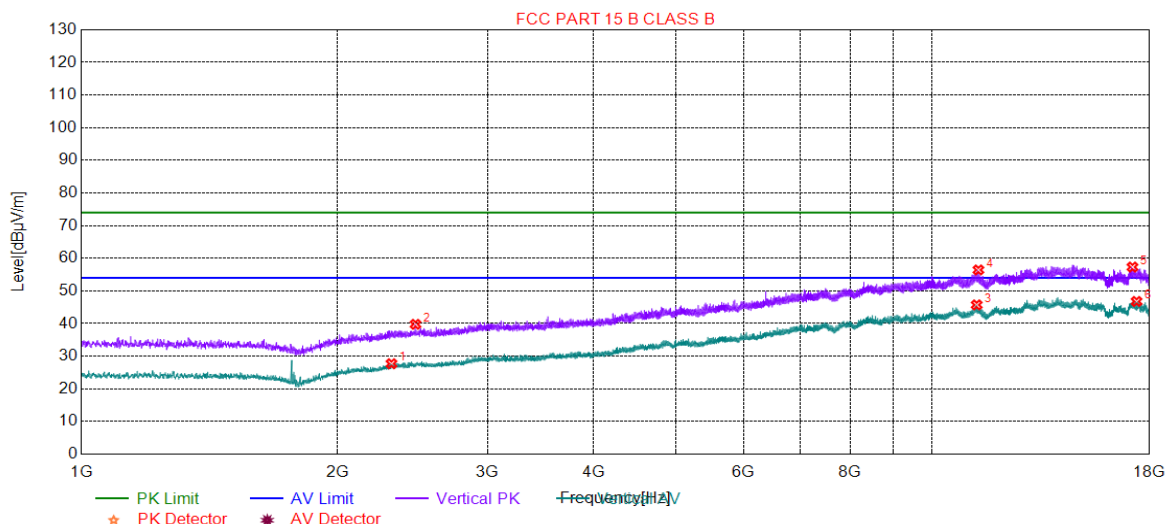
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Mode:a; Polarization:Vertical



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2314.165	27.71	54.00	26.29	165	105	Vertical
2	2469.723	39.78	74.00	34.22	160	127	Vertical
3	11273.61	45.73	54.00	8.27	283	148	Vertical
4	11326.31	56.44	74.00	17.56	103	322	Vertical
5	17183.10	57.32	74.00	16.68	245	83	Vertical
6	17376.91	46.79	54.00	7.21	218	323	Vertical

Remark:

1) Scan from 1GHz to 40GHz, The disturbance between 18GHz to 40GHz was very low, so only 1GHz to 18GHz test data had been displayed. The amplitude of emissions from the Eut which are attenuated more than 20dB below the limit need not be reported .

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3 Equipment List

RSE&RE&CE Test System					
Equipment	Manufacturer	Model No.	Cal Date	Cal Due Date	Inventory No.
Semi-Anechoic Chamber	Brilliant-emc	966	NCR	NCR	XAW03-35-01
MXA signal analyzer	Keysight	N9020A	2020-04-02	2021-04-02	XAW01-06-01
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	2020-04-02	2021-04-02	XAW01-03-02
Test receiver	ROHDE&SCHWARZ	ESR	2020-09-11	2021-09-10	XAW01-08-01
Receiving antenna	Rosenberger	VULB 9163	2019-10-13	2021-10-12	XAW01-09-01
Receiving antenna	Rosenberger	BBHA 9120D	2019-10-13	2021-10-12	XAW01-09-02
Receiving antenna	Rosenberger	BBHA 9170	2019-10-13	2021-10-12	XAW01-09-03
Directional antenna rack controller	Max-Full	MF-7802BS	NCR	NCR	XAW03-03-01
High-speed antenna rack controller	Max-Full	MF-7802	NCR	NCR	XAW03-04-01
Filter bank	Tonscend	JS0806-F	NCR	NCR	XAW03-05-01
Filter bank	Tonscend	JS0806s	NCR	NCR	XAW03-05-02
Amplifier	Tonscend	TAP00903040	2020-10-26	2021-10-25	XAW01-41-01
Amplifier	Tonscend	TAP01018048	2020-10-26	2021-10-25	XAW01-41-02
Amplifier	Tonscend	TAP18040048	2020-10-26	2021-10-25	XAW01-41-03
Amplifier	Shanghai Steed	YX28980930	2020-10-26	2021-10-25	XAW01-41-06
Artificial network	ROHDE&SCHWARZ	ENV216	2020-08-04	2021-08-03	XAW01-19-02
5G UXM	Keysight	E7515B	2020-09-11	2021-09-10	XAW01-04-01
Temperature and humidity meter	MingGao	TH101B	2020-06-11	2021-05-11	XAW01-01-01
Measurement Software	Tonscend	TS+ RSE&RE	NCR	NCR	XAW02-05-01
Measurement Software	Tonscend	TS+ CE	NCR	NCR	XAW02-05-02

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4 Measurement Uncertainty

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

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5 Photographs

5.1 Test Setup

Refer to Appendix A JBP & CXX Setup Photos.

5.2 EUT Constructional Details (EUT Photos)

Refer to Photographs of EUT Constructional Details

- End of the Report -

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