

TEST REPORT

Application No: ZR/2020/C0047
Applicant: Sony Corporation
Address of Applicant: 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan
Manufacturer: Sony Corporation
Address of Manufacturer: 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan
EUT Description: GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac, GPS and NFC
Trade Mark: Sony
FCC ID: PY7-63649Q
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2021/3/10
Date of Test: 2021/3/10 to 2021/3/31
Date of Issue: 2021/4/22

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

Authorized Signature:



Simon Ling

Wireless Laboratory Manager



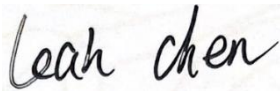

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021/4/7		Original
02		2021/4/22		Comment Revised

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



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Test Summary

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

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



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1 General Information

EUT Description:	GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac, GPS and NFC		
Trade Mark:	Sony		
S/N:	005129ADNVM2		
Frequency Bands:	Band	Tx (MHz)	Rx (MHz)
	GSM850	824~849	869~894
	GSM1900	1850~1910	1930~1990
	WCDMA Band IV	1710~1755	2110~2155
	LTE Band 4	1710~1755	2110~2155
	LTE Band 12	699~716	729~746
	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	SBH82D
USB cable1	UCB24
USB cable2	UCB20



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1.1 Description of Support Units

Description	Manufacturer	Model No.	Certificate Type
Laptop	Lenovo	L480	FCC SDOC
Mouse	Lenovo	3D optical Mouse	FCC SDOC
Router	NETGEAR	R6020	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
Test engineer	Ken Liu, Andy Yao

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.

Test Site No.:	SGS Xian Site No.		FCC Designation No.
	CO01-XA	03CH01-XA	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: LTE Band 12 Idle+BT+5G WLAN + NFC +GPS Rx+ playing MP4 +earphone1 + Cable(worst)+adapter1
- e: LTE Band 12 Idle+BT+5G WLAN + NFC +GPS Rx+ camera (Back) +earphone1 + Cable(worst)+adapter1
- f: LTE Band 12 Idle+BT+5G WLAN + NFC +GPS Rx+ camera (front) +earphone1 + Cable(worst)+adapter1
- g: LTE Band 12 Idle+BT+5G WLAN + NFC= +GPS Rx +earphone1 + Cable(worst)+adapter1

The worst case for final test:

- e: LTE Band 12 Idle+BT+5G WLAN + NFC +GPS Rx+ camera (Back) +earphone(worst) + Cable(worst)+adapter1
- a: Transfer data between the EUT and the PC+USB cable1



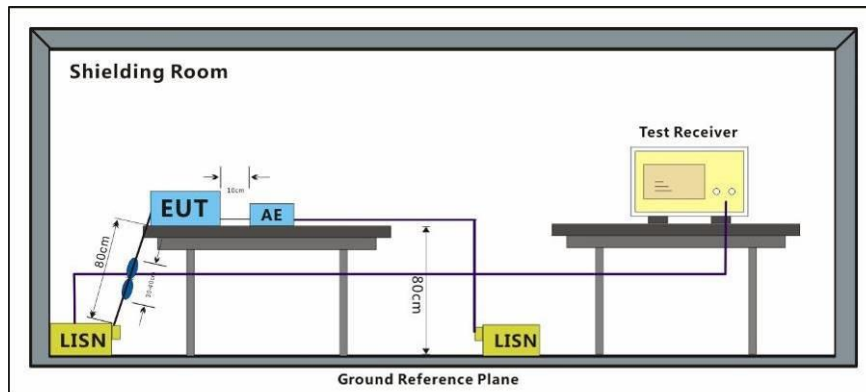
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2.1.2 Test Setup Diagram



2.1.3 Measurement Data

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



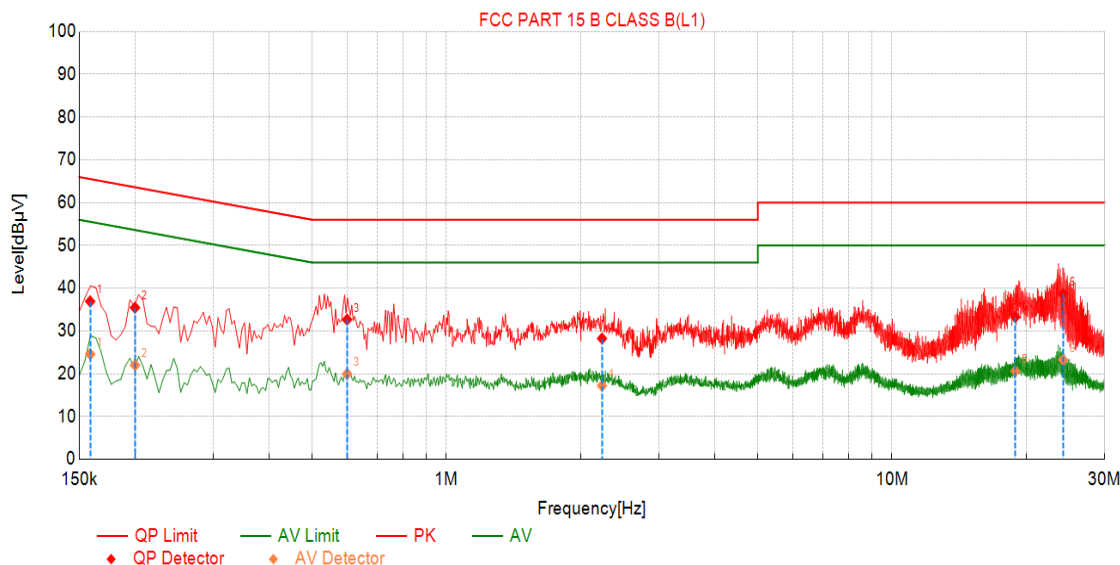
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Mode:e; Line:Live Line



Test Graph

Final Data List

NO.	Freq. [MHz]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.1588	36.93	65.53	28.60	24.59	55.53	30.94	PASS
2	0.2002	35.45	63.60	28.15	22.00	53.60	31.60	PASS
3	0.5988	32.66	56.00	23.34	19.98	46.00	26.02	PASS
4	2.2350	28.24	56.00	27.76	17.20	46.00	28.80	PASS
5	18.9065	33.26	60.00	26.74	20.62	50.00	29.38	PASS
6	24.2024	38.64	60.00	21.36	23.23	50.00	26.77	PASS

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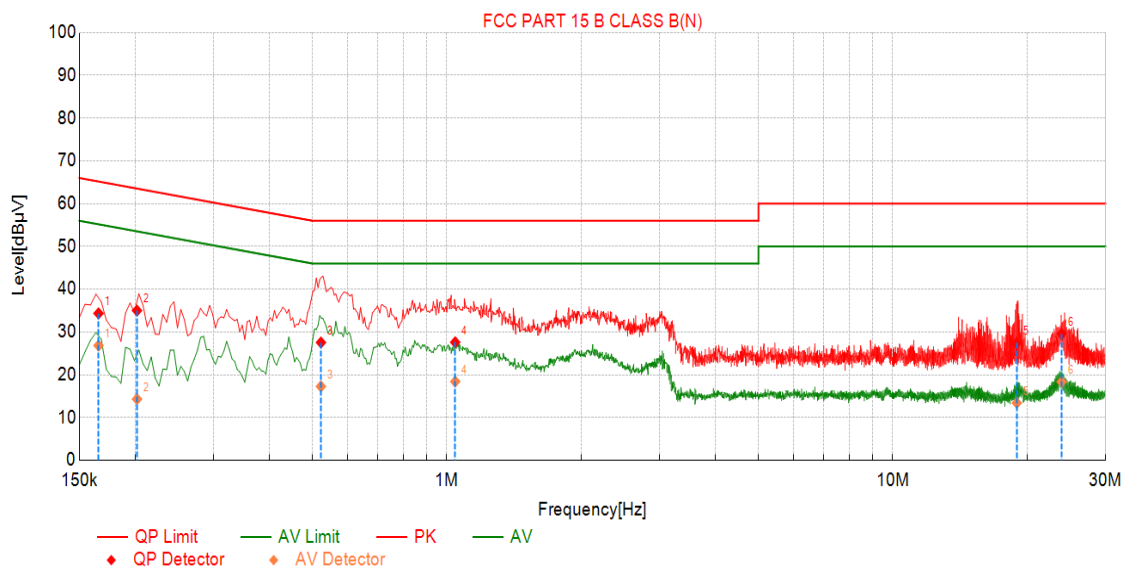
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Test Graph

Final Data List

NO.	Freq. [MHz]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.1657	34.35	65.17	30.82	26.82	55.17	28.35	PASS
2	0.2021	35.00	63.52	28.52	14.31	53.52	39.21	PASS
3	0.5224	27.54	56.00	28.46	17.27	46.00	28.73	PASS
4	1.0448	27.59	56.00	28.41	18.40	46.00	27.60	PASS
5	18.9690	27.45	60.00	32.55	13.41	50.00	36.59	PASS
6	23.9071	29.57	60.00	30.43	18.35	50.00	31.65	PASS



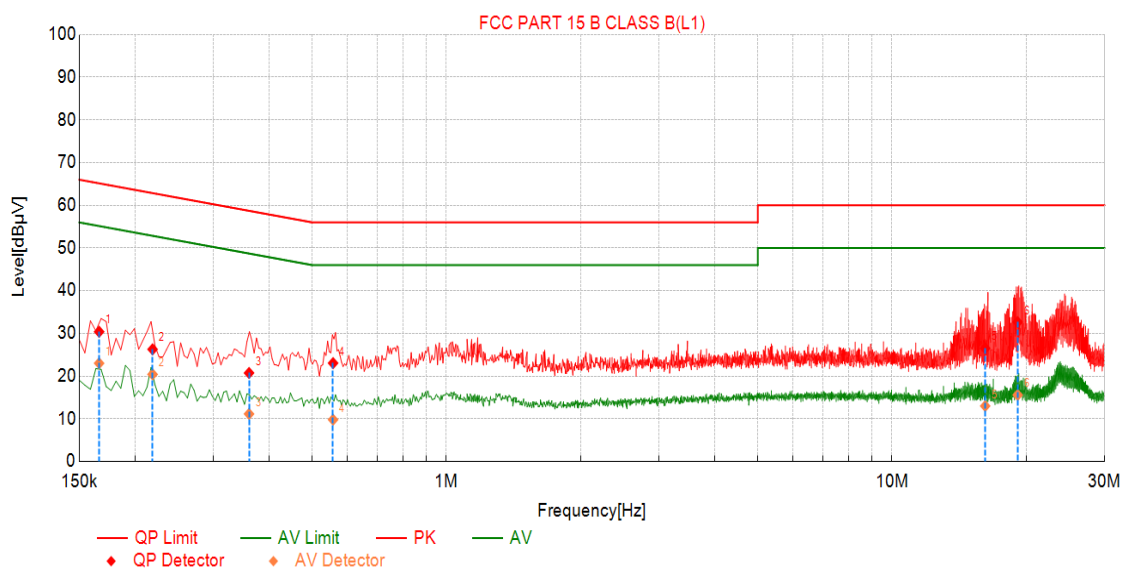
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Test Graph

Final Data List

NO.	Freq. [MHz]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.1663	30.39	65.14	34.75	23.01	55.14	32.13	PASS
2	0.2192	26.27	62.85	36.58	20.41	52.85	32.44	PASS
3	0.3608	20.73	58.71	37.98	11.14	48.71	37.57	PASS
4	0.5570	23.04	56.00	32.96	9.80	46.00	36.20	PASS
5	16.1823	26.50	60.00	33.50	12.99	50.00	37.01	PASS
6	19.1403	32.64	60.00	27.36	15.58	50.00	34.42	PASS



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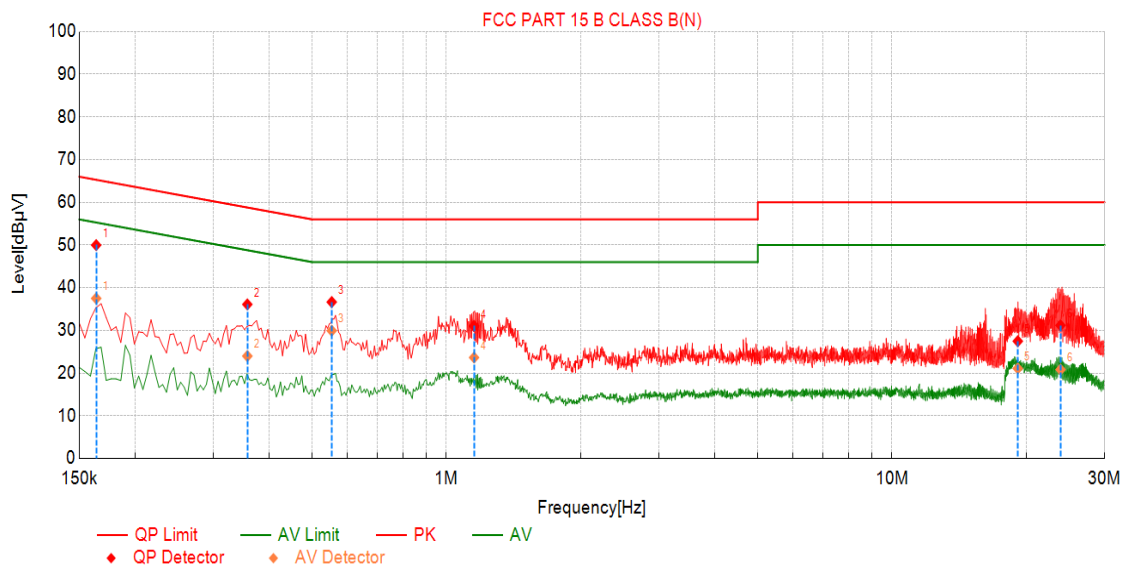
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Mode:a; Line:Neutral Line



Test Graph

Final Data List

NO.	Freq. [MHz]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.1638	49.98	65.27	15.29	37.50	55.27	17.77	PASS
2	0.3577	36.10	58.78	22.68	23.99	48.78	24.79	PASS
3	0.5531	36.64	56.00	19.36	29.93	46.00	16.07	PASS
4	1.1540	31.03	56.00	24.97	23.64	46.00	22.36	PASS
5	19.1533	27.48	60.00	32.52	21.08	50.00	28.92	PASS
6	23.8822	31.17	60.00	28.83	20.83	50.00	29.17	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: 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: LTE Band 12 Idle+BT+5G WLAN + NFC +GPS Rx+ playing MP4 +earphone1
+ Cable(worst)+adapter1
- e: LTE Band 12 Idle+BT+5G WLAN + NFC +GPS Rx+ camera (Back) +earphone1
+ Cable(worst)+adapter1
- f: LTE Band 12 Idle+BT+5G WLAN + NFC +GPS Rx+ camera (front) +earphone1
+ Cable(worst)+adapter1
- g: LTE Band 12 Idle+BT+5G WLAN + NFC +GPS Rx +earphone1 +
Cable(worst)+adapter1

The worst case
for final test:

- a: Transfer data between the EUT and the PC+USB cable1
- f: LTE Band 12 Idle+BT+5G WLAN + NFC +GPS Rx+ camera (front) +earphone1
+ Cable(worst)+adapter1



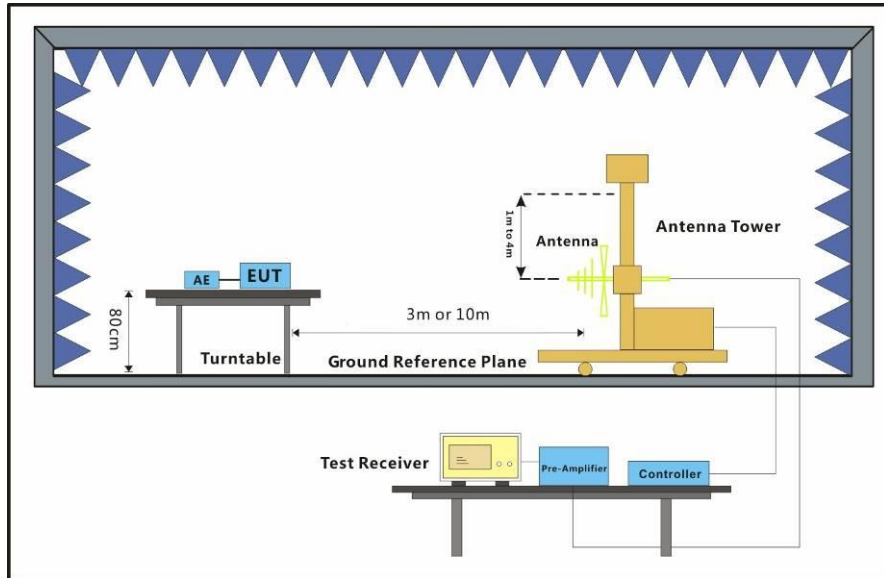
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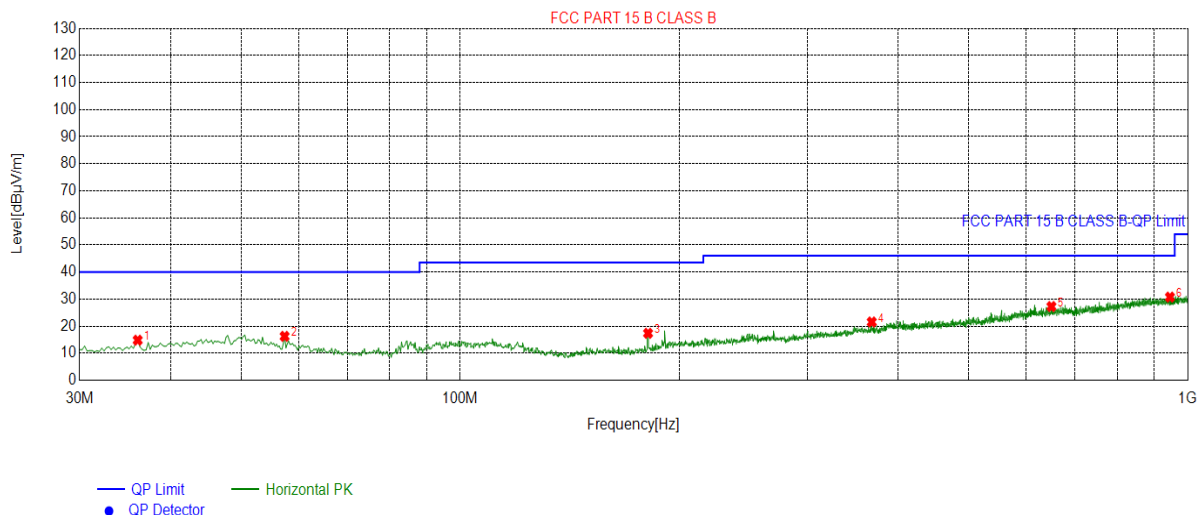
2.2.2 Test Setup Diagram



2.2.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. 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

Mode:a; Polarization:Horizontal



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.0625	14.83	-30.26	40.00	25.17	100	306	Horizontal
2	57.4025	16.25	-29.59	40.00	23.75	200	2	Horizontal
3	181.320	17.38	-31.49	43.50	26.12	300	243	Horizontal
4	368.045	21.54	-24.38	46.00	24.46	100	48	Horizontal
5	649.830	27.25	-17.87	46.00	18.75	200	340	Horizontal
6	945.680	30.74	-13.82	46.00	15.26	300	164	Horizontal



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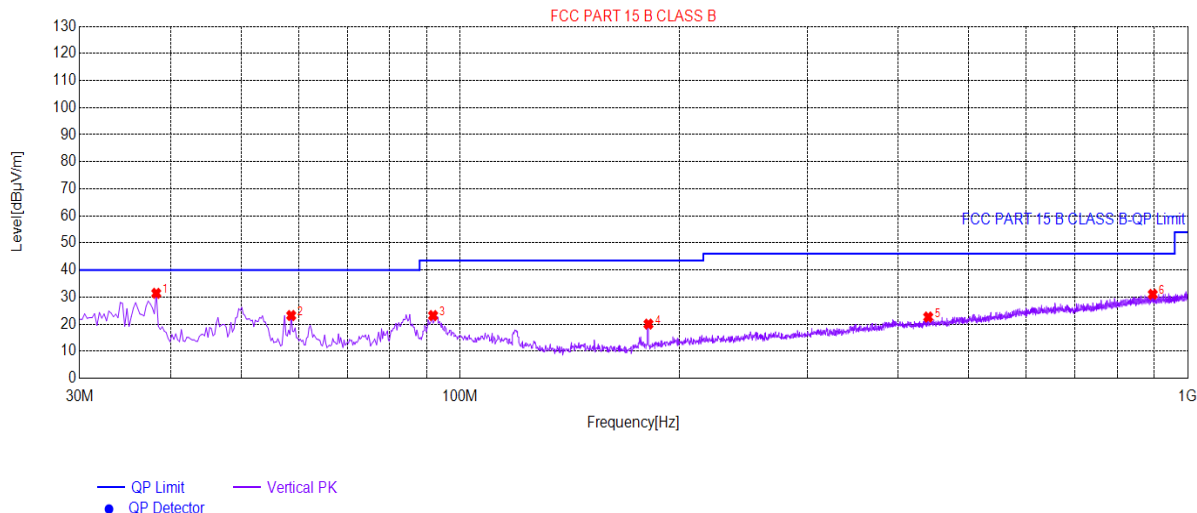
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Mode:a; Polarization:Vertical

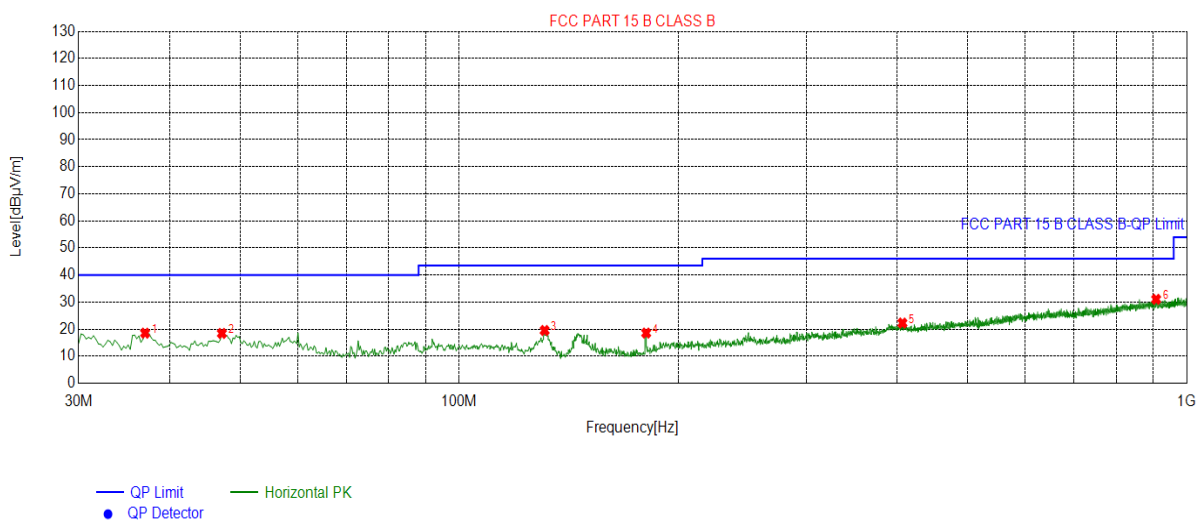


Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	38.2450	31.41	-29.54	40.00	8.59	200	170	Vertical
2	58.6150	23.19	-29.79	40.00	16.81	200	159	Vertical
3	91.8375	23.18	-31.43	43.50	20.32	100	285	Vertical
4	181.562	20.03	-31.44	43.50	23.47	100	190	Vertical
5	440.067	22.64	-22.61	46.00	23.36	200	27	Vertical
6	895.482	31.03	-14.38	46.00	14.97	400	332	Vertical



Mode:f; Polarization:Horizontal

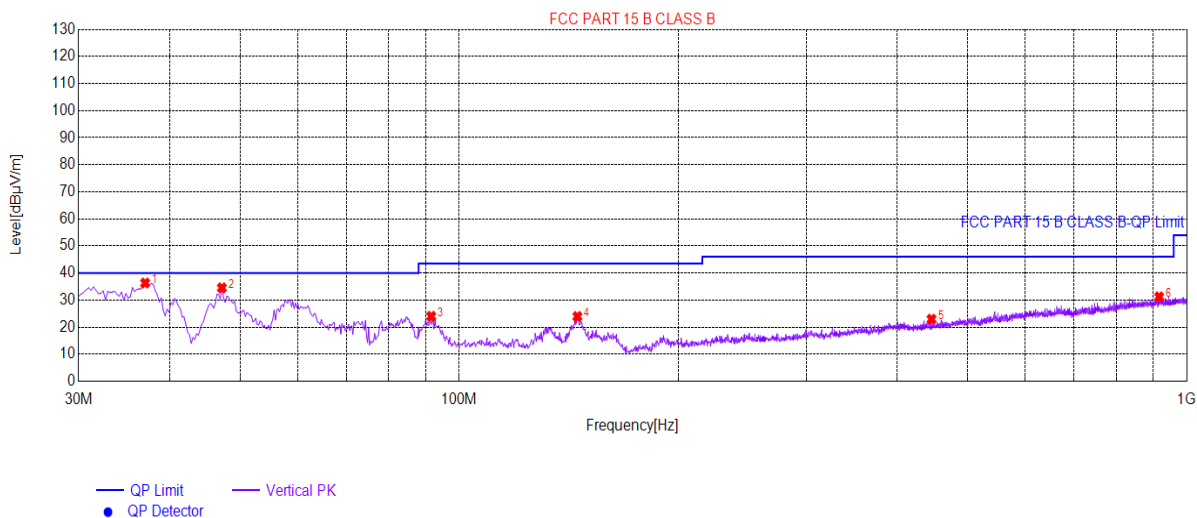


Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	37.0325	18.54	-29.94	40.00	21.46	400	107	Horizontal
2	47.2175	18.43	-28.25	40.00	21.57	200	309	Horizontal
3	131.122	19.52	-32.81	43.50	23.98	400	17	Horizontal
4	180.835	18.57	-31.58	43.50	24.93	100	279	Horizontal
5	406.845	22.25	-23.12	46.00	23.75	100	210	Horizontal
6	908.092	31.04	-14.21	46.00	14.96	200	143	Horizontal



Mode:f; Polarization:Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	37.0325	36.31	-29.94	40.00	3.69	100	358	Vertical
2	47.2175	34.53	-28.25	40.00	5.47	100	343	Vertical
3	91.5950	24.01	-31.47	43.50	19.49	100	264	Vertical
4	145.430	23.94	-33.07	43.50	19.56	100	253	Vertical
5	446.130	22.94	-22.56	46.00	23.06	100	57	Vertical
6	916.822	31.21	-14.06	46.00	14.79	400	38	Vertical



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 to30000MHz

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: LTE Band 12 Idle+BT+5G WLAN + NFC +GPS Rx+ playing MP4 +earphone1 + Cable(worst)+adapter1
- e: LTE Band 12 Idle+BT+5G WLAN + NFC +GPS Rx+ camera (Back) +earphone1 + Cable(worst)+adapter1
- f: LTE Band 12 Idle+BT+5G WLAN + NFC +GPS Rx+ camera (front) +earphone1 + Cable(worst)+adapter1
- g: LTE Band 12 Idle+BT+5G WLAN + NFC +GPS Rx +earphone1 + Cable(worst)+adapter1

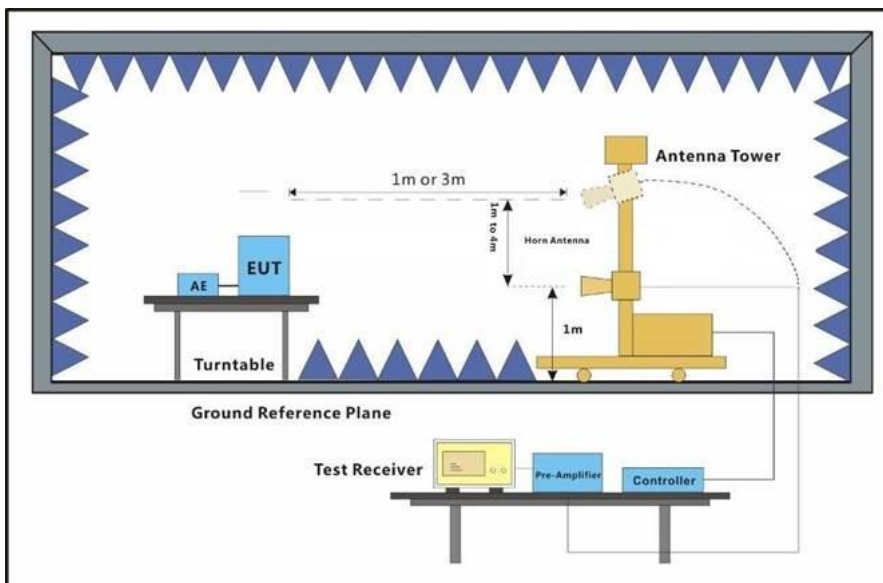
The worst case for final test:

- f: LTE Band 12 Idle+BT+5G WLAN + NFC +GPS Rx+ camera (front) +earphone1 + Cable(worst)+adapter1
- b: Transfer data between the EUT and the PC+USB cable2



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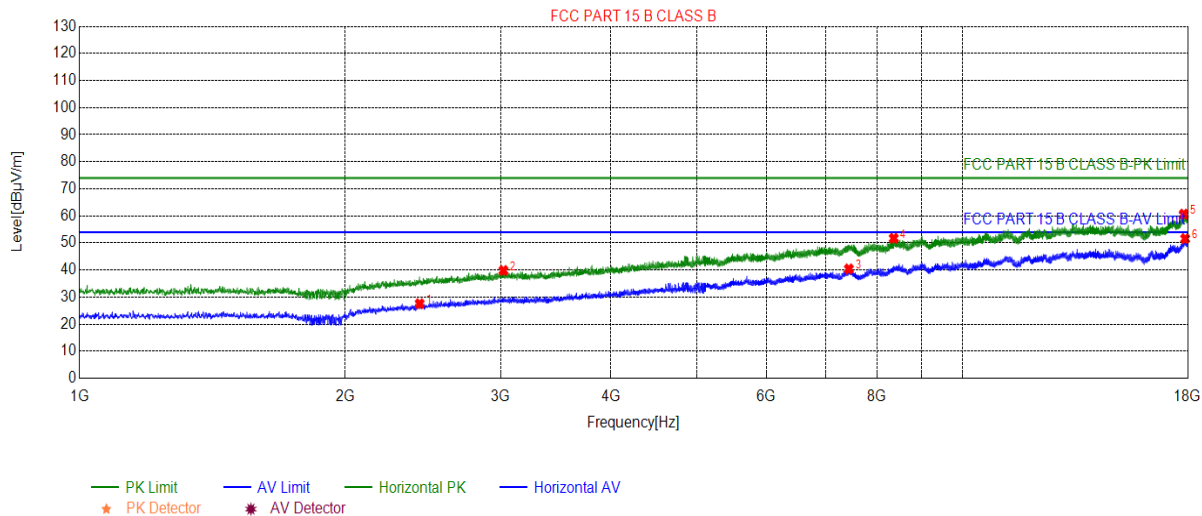
2.3.2 Test Setup Diagram



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.

Mode:f; Polarization:Horizontal

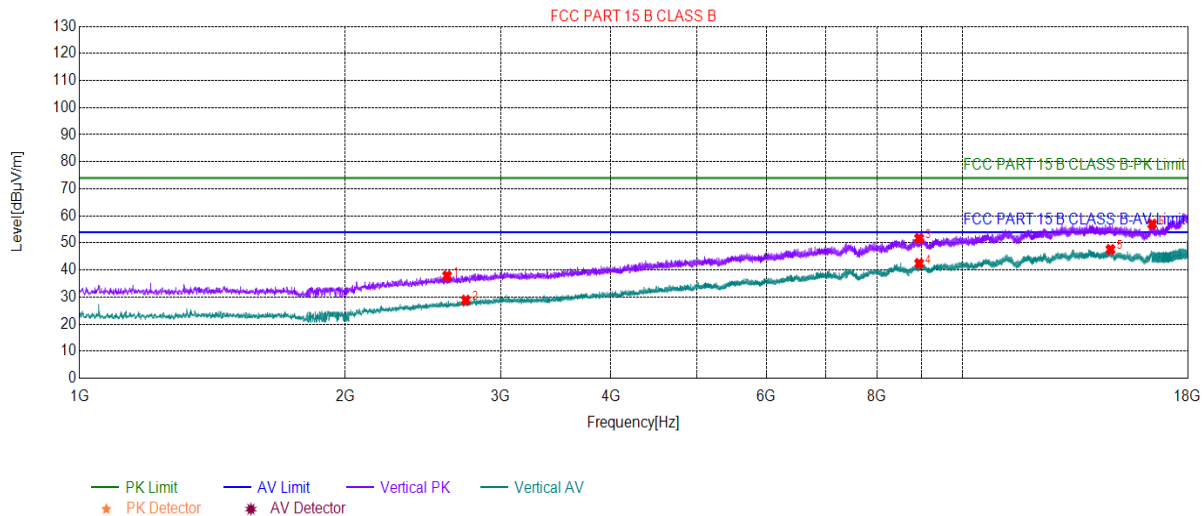


Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2428.07	27.54	-25.33	54.00	26.46	209	360	Horizontal
2	3021.40	39.80	-22.14	74.00	34.20	121	265	Horizontal
3	7439.07	40.39	-8.14	54.00	13.61	121	64	Horizontal
4	8363.06	51.69	-6.49	74.00	22.31	121	313	Horizontal
5	17821.4	60.64	2.79	74.00	13.36	121	102	Horizontal
6	17886.9	51.56	4.01	54.00	2.44	121	274	Horizontal



Mode:f; Polarization:Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2608.28	37.83	-24.22	74.00	36.17	301	115	Vertical
2	2738.33	28.87	-23.64	54.00	25.13	301	95	Vertical
3	8934.29	51.71	-4.94	74.00	22.29	213	208	Vertical
4	8935.99	42.43	-4.92	54.00	11.57	213	111	Vertical
5	14720.5	47.59	1.52	54.00	6.41	213	15	Vertical
6	16415.5	56.94	-0.08	74.00	17.06	213	226	Vertical

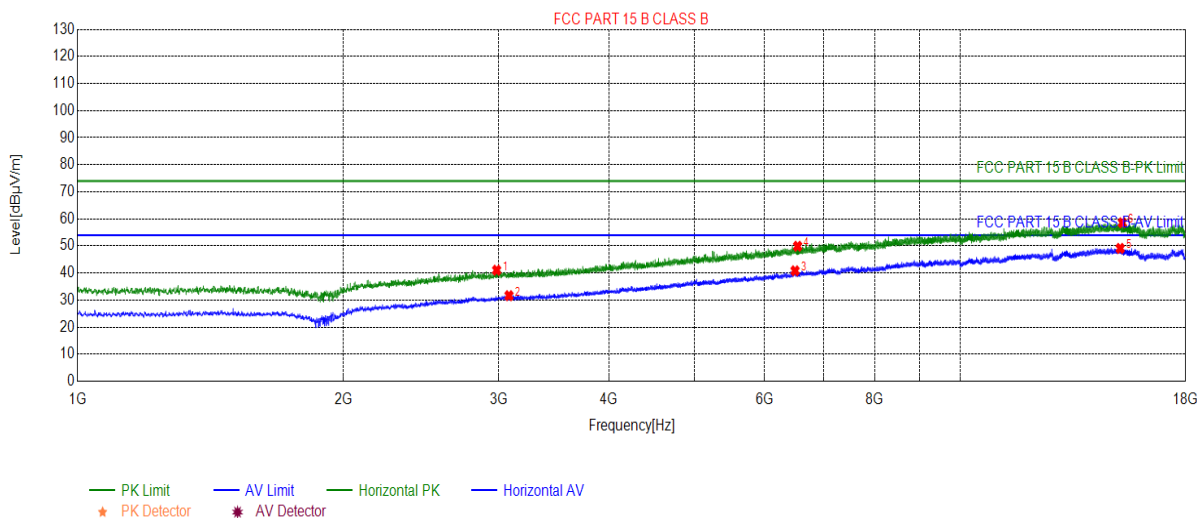
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Mode:b; Polarization:Horizontal



Suspected List

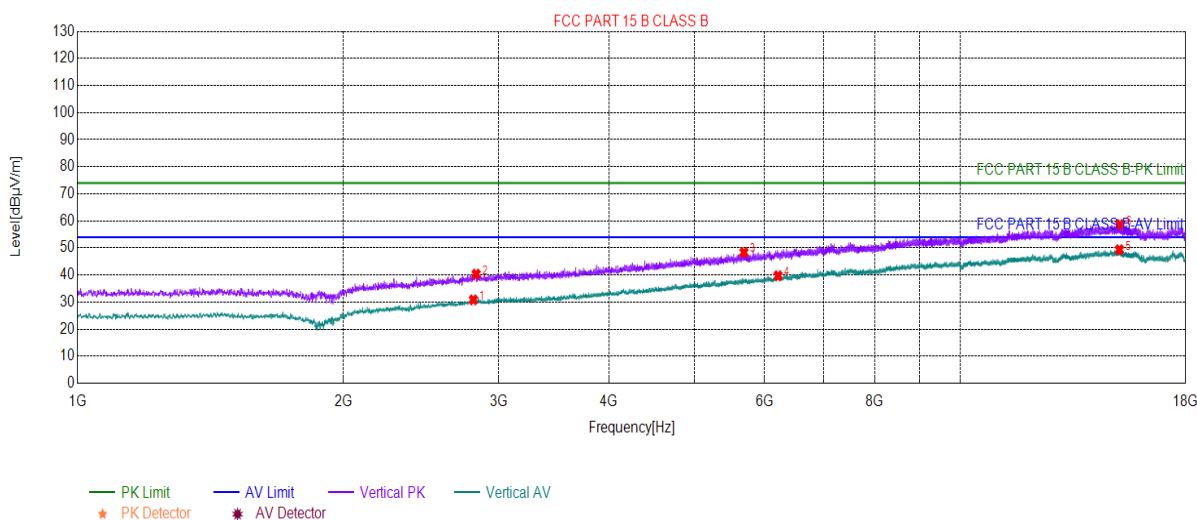
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2983.99	41.03	-22.51	74.00	32.97	136	320	Horizontal
2	3081.75	31.64	-22.13	54.00	22.36	121	216	Horizontal
3	6498.92	40.82	-10.16	54.00	13.18	119	164	Horizontal
4	6543.12	49.90	-10.80	74.00	24.10	97	27	Horizontal
5	15175.3	49.10	1.92	54.00	4.90	120	91	Horizontal
6	15261.1	58.53	1.81	74.00	15.47	67	27	Horizontal



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Mode:b; Polarization:Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2808.04	30.84	-22.81	54.00	23.16	210	310	Vertical
2	2828.44	40.32	-22.83	74.00	33.68	213	328	Vertical
3	5687.13	48.34	-12.51	74.00	25.66	198	40	Vertical
4	6217.56	39.74	-11.39	54.00	14.26	236	320	Vertical
5	15144.7	49.35	2.19	54.00	4.65	89	328	Vertical
6	15165.9	58.66	2.03	74.00	15.34	211	33	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

RE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2020-04-02	2021-04-01
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020-09-11	2021-09-10
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2019-10-13	2021-10-12
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2019-10-13	2021-10-12
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2019-10-13	2021-10-12
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR
Amplifier	Tonscend	TAP00903040	XAW01-41-01	2020-10-26	2021-10-25
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2020-10-26	2021-10-25
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2020-10-27	2021-10-26
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2020-10-26	2021-10-25
5G UXM	Keysight	E7515B	XAW01-04-01	2020-09-11	2021-09-10
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2020-11-06	2021-11-05
Measurement Software	Tonscend	TS+ RE V3.0.0.2	XAW02-05-01	NCR	NCR

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020-09-11	2021-09-10
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2020-08-04	2021-08-03
5G UXM	Keysight	E7515B	XAW01-19-02	2020-09-11	2021-09-10
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2020-11-06	2021-11-05
Measurement Software	Tonscend	TS+ CE V2.5	XAW02-05-02	NCR	NCR



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4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	$\pm 3.0\text{dB}$ (150kHz to 30MHz)
2	Radiated Emission	$\pm 4.8\text{dB}$ (Below 1GHz)
		$\pm 4.8\text{dB}$ (1GHz to 6GHz)
		$\pm 4.5\text{dB}$ (6GHz to 18GHz)
		$\pm 5.02\text{dB}$ (Above 18GHz)



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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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