



EMC Test Report

Product Name: Smart Phone

Model Number: JSN-L23

Report No: SYHB(Z-EMC)20180719008002-2

FCC ID: QISJSN-L23

Reliability Laboratory of Huawei Technologies Co., Ltd.

(Global Compliance and Testing Center of Huawei Technologies Co., Ltd)

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Notice

- The laboratory has obtained the accreditation of China National Accreditation Service for Conformity Assessment (CNAS), and accreditation number: L0310.
- 2. The laboratory has passed the accreditation by The American Association for Laboratory Accreditation (A2LA). The accreditation number is 2174.01
- 3. The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 6369A-1.
- 4. The laboratory (Reliability Lab of Huawei Technologies Co., Ltd) is also named as "Global Compliance and Testing Center of Huawei Technologies Co., Ltd", the both names have coexisted since 2009.
- 5. The laboratory has been recognized by the US Federal Communications Commission (FCC) to perform compliance testing subject to the Commission's Declaration Of Conformity (DOC) and Certification rules. The Designation Number is CN1173, and the Test Firm Registration Number is 294140."
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- 10. Context of the test report cannot be used partially or in full for publicity and/or promotional purposes without previous written approval of the laboratory.



Applicant: Huawei Technologies Co., Ltd. Address: Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C **Date of Receipt Test Item:** 2018-08-06 **Start Date of Test:** 2018-08-07 **End Date of Test:** 2018-08-22 **Test Result:** Pass **Approved By** He Hao 2018-08-24 (Lab Manager) Signature Date Name

Prepared by

(Test Engineer)

2018-08-23

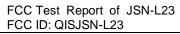
Date

Chang Lina

Name

Chang Lina

Signature



Security Level: secret



Modification Record

No.	Last Report No.	Modification Description
1	NA	First Report.



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1 General Information

1.1 EUT Description

Product Name						
Model Number JSN-L23	EUT Description					
Input voltage	Product Name					
GSM 850:824MHz to 849MHz PCS 1900:1850MHz to 1910MHz WCDMA Band II: 1850MHz to 1910MHz WCDMA Band IV: 1710MHz to 1755MHz WCDMA Band V: 824MHz to 849MHz LTE Band 2: 1850MHz to 1910MHz LTE Band 4:1710MHz to 1755MHz LTE Band 4:1710MHz to 1755MHz LTE Band 5: 824MHz to 849MHz LTE Band 7:2500MHz to 2570MHz LTE Band 7:2500MHz to 2570MHz LTE Band 7:2545MHz to 2655MHz 2.4G WIFI: 2412MHz to 2462MHz Bluetooth: 2400MHz to 2483.5MHz GSM 850:869MHz to 894MHz PCS 1900:1930MHz to 1990MHz WCDMA Band II: 1930MHz to 1990MHz WCDMA Band IV: 2110MHz to 1990MHz WCDMA Band V: 2110MHz to 2155MHz LTE Band 2: 1930MHz to 1990MHz LTE Band 2: 1930MHz to 1990MHz LTE Band 3: 1930MHz to 1990MHz LTE Band 5: 869MHz to 894MHz LTE Band 5: 869MHz to 894MHz LTE Band 5: 869MHz to 2655MHz LTE Band 7:2620MHz to 2655MHz LTE Band 7:2620MHz to 2655MHz LTE Band 5: 859MHz to 108MHz Bluetooth: 2400MHz to 2483.5MHz FM: 87.5 MHz to 108MHz GPS: 1575.4ZMHz BDS: 1559.052MHz GLONASS: 1597.55MHz BS: 1559.0	Model Number	JSN-L23				
PCS 1900:1850MHz to 1910MHz WCDMA Band II: 1850MHz to 1910MHz WCDMA Band IV: 1710MHz to 1755MHz WCDMA Band V: 824MHz to 849MHz LTE Band 2: 1850MHz to 1910MHz LTE Band 5: 824MHz to 849MHz LTE Band 5: 824MHz to 849MHz LTE Band 7:2500MHz to 2570MHz LTE Band 7:2500MHz to 2570MHz LTE Band 7:2500MHz to 2570MHz LTE Band 4:12545MHz to 2655MHz 2.4G WIF: 2412MHz to 2462MHz Bluetooth: 2400MHz to 1990MHz WCDMA Band IV: 10 894MHz PCS 1900:1930MHz to 1990MHz WCDMA Band IV: 2110MHz to 1990MHz WCDMA Band IV: 2110MHz to 1990MHz WCDMA Band IV: 2110MHz to 2155MHz LTE Band 4:2110MHz to 2155MHz LTE Band 4:2110MHz to 255MHz LTE Band 4:2110MHz to 255MHz LTE Band 4:2110MHz to 2655MHz LTE Band 5: 869MHz to 894MHz LTE Band 7:2620MHz to 2690MHz LTE Band 7:2620MHz to 2655MHz LTE Band 7:2620MHz to 2482MHz Bluetooth: 2400MHz to 2462MHz Bluetooth: 2400MHz to 2462MHz Bluetooth: 2400MHz to 2462MHz Bluetooth: 2590.52MHz GLONASS: 1597.55MHz S/N ESU0118627000239 HW Version BUT Accessory Data Cable USB A Male to Male to Micro Usb, Shielded Model: 130-26669 Manufacturer: HONGLIN TECHNOLOGY CO.,LTD Data Cable USB A Male to Male to Micro Usb, Shielded Model: WA0001 Manufacturer: NingBo Broad Telecommunication Co., Ltd	Input voltage	3.82V				
PCS 1900:1930MHz to 1990MHz	TX Frequency	PCS 1900:1850MHz to 1910MHz WCDMA Band II: 1850MHz to 1910MHz WCDMA Band IV: 1710MHz to 1755MHz WCDMA Band V: 824MHz to 849MHz LTE Band 2: 1850MHz to1910MHz LTE Band 4:1710MHz to 1755MHz LTE Band 5: 824MHz to 849MHz LTE Band 7:2500MHz to 2570MHz LTE Band 41:2545MHz to 2655MHz 2.4G WIFI: 2412MHz to 2462MHz				
HW Version SW Version JSN-L23 8.2.0.106 EUT Accessory Data Cable USB A Male to Male to Micro Usb, Shielded Model: 130-26669 Manufacturer: HONGLIN TECHNOLOGY CO.,LTD Data Cable USB A Male to Male to Micro Usb, Shielded Model: WA0001 Manufacturer: NingBo Broad Telecommunication Co., Ltd	RX Frequency	PCS 1900:1930MHz to 1990MHz WCDMA Band II: 1930MHz to 1990MHz WCDMA Band IV: 2110MHz to 2155MHz WCDMA Band V: 869MHz to 894MHz LTE Band 2: 1930MHz to1990MHz LTE Band 4:2110MHz to 2155MHz LTE Band 5: 869MHz to 894MHz LTE Band 7:2620MHz to 2690MHz LTE Band 41:2545MHz to 2655MHz 2.4G WIFI: 2412MHz to 2462MHz Bluetooth: 2400MHz to 2483.5MHz FM: 87.5 MHz to 108MHz GPS: 1575.42MHz BDS: 1559.052MHz				
SW Version EUT Accessory Data Cable USB A Male to Male to Micro Usb, Shielded Model: 130-26669 Manufacturer: HONGLIN TECHNOLOGY CO.,LTD Data Cable USB A Male to Male to Micro Usb, Shielded Model: WA0001 Manufacturer: NingBo Broad Telecommunication Co., Ltd	S/N	ESU0118627000239				
Data Cable (04070998) Data Cable USB A Male to Male to Micro Usb, Shielded Model: 130-26669 Manufacturer: HONGLIN TECHNOLOGY CO.,LTD Data Cable USB A Male to Male to Micro Usb, Shielded Model: WA0001 Manufacturer: NingBo Broad Telecommunication Co., Ltd	HW Version	HL1JSNM				
Data Cable USB A Male to Male to Micro Usb, Shielded Model: 130-26669 Manufacturer: HONGLIN TECHNOLOGY CO.,LTD Data Cable USB A Male to Male to Micro Usb, Shielded Model: WA0001 Manufacturer: NingBo Broad Telecommunication Co., Ltd	SW Version	JSN-L23 8.2.0.106				
Data cable(04070998) Model: 130-26669 Manufacturer: HONGLIN TECHNOLOGY CO.,LTD Data Cable USB A Male to Male to Micro Usb,Shielded Model: WA0001 Manufacturer: NingBo Broad Telecommunication Co., Ltd		EUT Accessory				
Data cable(04070998) Model: WA0001 Manufacturer: NingBo Broad Telecommunication Co., Ltd	Data cable(04070998)	Model: 130-26669 Manufacturer:				
Data cable (04070998) Data Cable USB A Male to Micro Usb, Shielded	Data cable(04070998) Model: WA0001 Manufacturer:					
	Data cable(04070998)	Data Cable USB A Male to Male to Micro Usb, Shielded				



	Model: CUBB01M-HC304-DH	
	Manufacturer:	
	FOXCONN INTERCONNECT TECHNOLOGY LIMITED	
	Data Cable USB A Male to Male to Micro Usb, Shielded	
Data cable(04070998)	Model: L99U2017-CS-H	
Data cable(04070990)	Manufacturer:	
	Shenzhen Luxshare Precision Industry Co.,Ltd.	
	Manufacturer:Huawei Technologies Co.,Ltd.	
	Model: HW-050200U01	
	Input voltage: 100-240V 50/60Hz 0.5A	
Adapter	Output Voltage: 5V === 2A	
, rasp to	Rated Power:10W	
	SN: H786K9J4V01394;	
	B78697J4J03533;	
	P78621J4278130;	
	Manufacturer:Huawei Technologies Co.,Ltd.	
	Model: HW-050200U02	
	Input voltage: 100-240V 50/60Hz 0.5A	
A d = t =	Output Voltage: 5V ==== 2A	
Adapter	Rated Power:10W	
	SN: P95521J6200032;	
	B95532J5T00018;	
	H955KAJ4M00153; K95501J3N00026;	
	Manufacturer:Huawei Technologies Co.,Ltd.	
	Battery Model: HB386590ECW	
	Rated capacity: 3650mAh	
Bookargaahla Li jan		
Rechargeable Li-ion	Nominal Voltage: +3.82V	
	Charging Voltage: +4.40V	
	SN: 5VXHACI609900945;	
	5VXRSYI424X0095B;	
Family 27 (000 (000))	Model: MEMD1632B580C00	
Earphone(22040229)	Manufacturer:	
	Jiangxi Lianchuang Hongsheng Electronic Co. ,LTD	
Earphone(22040229)	Model: EMC309-001	
	Manufacturer:Merry;	
Fornbono (22040220)	Model: 1311-3291-3.5mm-229	
Earphone(22040229)	Manufacturer: Boluo County Quancheng Electronic Co.,ltd	
	Boldo County Quantitieng Electronic Co.,ita	

Remark: The above EUT's information is declared by manufacturer. Please refer to the specifications or user's manual for more detailed information.



1.2 Test Site Information

Test Site 1:	RELIABILITY LABORATORY OF HUAWEI TECHNOLOGIES CO., LTD.
Test Site Location:	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C

1.3 Applied Standards

APPLIED STANDARD

47 CFR FCC Part 15, Subpart B



2 Summary of Results

Summary of Results						
Test Items	Test Mode	Performance Class & Required Performance Criteria	Resul t	Site		
Radiated Emissions	Mode 2~	CLASS B	Pass	Site1		
Enclosure Port	Mode 5	CLASS B	F 455	Site		
Conducted Emissions DC Power Port AC Power Port Telecommunication Ports	Mode 1~ Mode 5	CLASS B	Pass	Site1		
Note: 1, Measurement taken is within the uncertainty of test system. 2, The item has been tested; The item has not been tested.						

During the measurement, the environmental conditions complied with the range listed as below.

Item	Required
Ambient temperature	15°C∼35°C
Relative humidity	25%~75%
Atmospheric pressure	86kPa∼106kPa



3 System Configuration during EMC Test

3.1 Test Mode

The EUT was configured, installed, arranged and operated in a manner consistent with typical application. The following mode(s) were applied during the compliance test.

Test Mode	
Mode 1:	Charging +traffic +WIFI+BT+GNSS On +Earphone
Mode 2:	Charging +Camera On +Earphone +idle
Mode 3:	Charging +Video Playing +Earphone +idle
Mode 4:	Charging +FM +Earphone +idle
Mode 5:	USB Copy(EUT with PC) +Earphone

Remark:

- If there is one kind of accessories with different models, each one should be applied throughout the compliance test respectively, however, only the worst case will be recorded in this report.
- If EUT has more than one typical operation, only the worst test mode will be recorded in this report.

Traffic Mode:

When the EUT state is switched on and with Radio Resource Control (RRC) connection established.

Idle Mode:

When the EUT state is switched on but without Radio Resource Control (RRC) connection.

Worst Case:

1) Radiated Emission

Adapter (Model: HW-050200U01, SN: B78697J4J03533) + Charging +Camera On +Earphone +idle the result is the worst (30MHz~1GHz).

Adapter (Model: HW-050200U02, SN: K95501J3N00026) + Charging +Camera On +Earphone +idle the result is the worst (1GHz~18GHz).

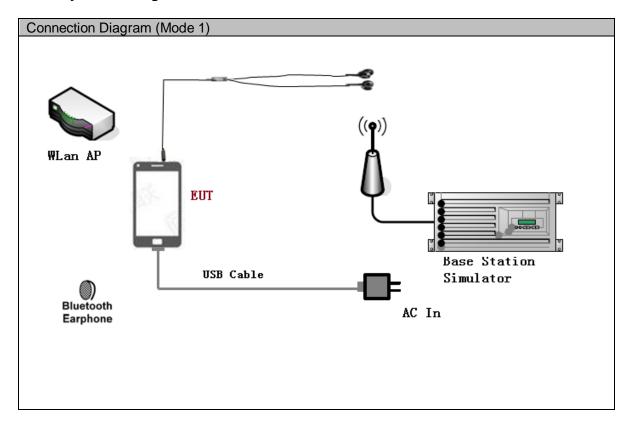
Adapter (Model: HW-050200U02, SN: B95532J5T00018) + Charging +Camera On +Earphone +idle the result is the worst (18GHz~26.5GHz).

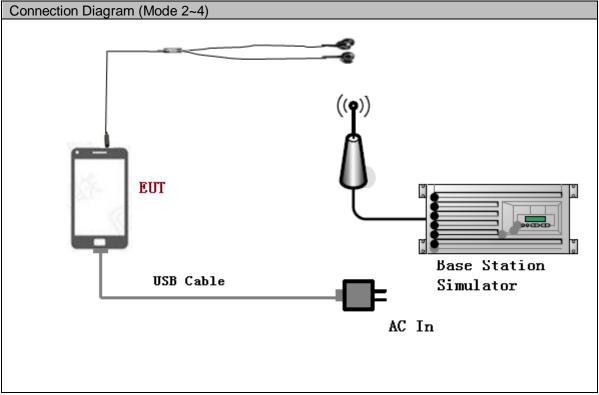
2) Conducted Emission

Adapter (Model: HW-050200U02, SN: B95532J5T00018) + Charging +Video Playing +Earphone +idle the result is the worst.

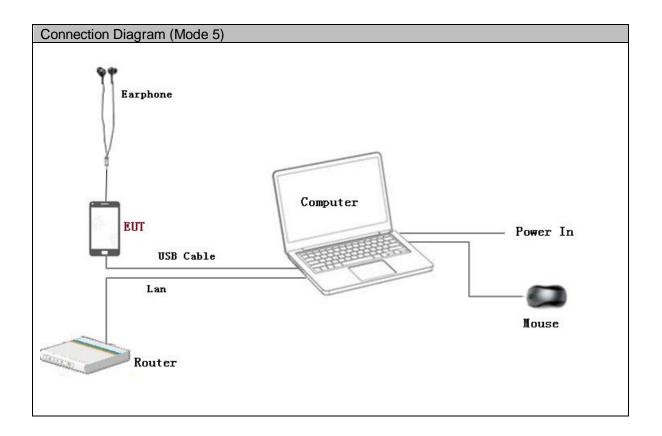


3.2 Test System Configuration











3.3 Cables Used during Test

Cable	Quantity	Length	Type of Cable
USB	1	<3m	Shielded
Earphone	1	<3m	Unshielded

3.4 Associated Equipment Used during Test

Name	Model	Manufact urer	S/N	Calibrated Deadline	Cal interval
Radio Communication Tester	CMU200	R&S	3608082535	2019-03-14	12
Radio Communication Tester	MT8820C	Anritsu	A110518805	2019-05-07	12
ThinkPad	S3-S431	Lenovo	A140714638	/	/
mouse	M-U0025-O	Lenovo	HS423HB22T B	/	/



4 Electromagnetic Interference (EMI)

4.1 Radiated Disturbance 30MHz to 26.5GHz

4.1.1 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4dB according to the standards: ANCI C63.4: 2014. The test distance was 3m.The set-up and test methods were according to ANCI C63.4: 2014.

A preliminary scan and a final scan of the emissions were made from 30 MHz to 26.5 GHz by using test script of software; The emissions were measured using Quasi-Peak Detector (30MHz~1GHz) and AV/PK detector (above 1GHz). The maximal emission value was acquired by adjusting the antenna height, polarisation and turntable azimuth in accordance with the software setup. Normally, the height range of antenna was 1m to 4m. The azimuth range of turntable was 0°to 360°. The receiving antenna has two polarizations V and H.

Measurement bandwidth (RBW) for 30MHz to 1000 MHz: 120 kHz;

Measurement bandwidth (RBW) for 1000MHz to 26500 MHz: 1MHz;

EUT was configured in idle mode and the test performed at worst emission state.

4.1.2 Test setup

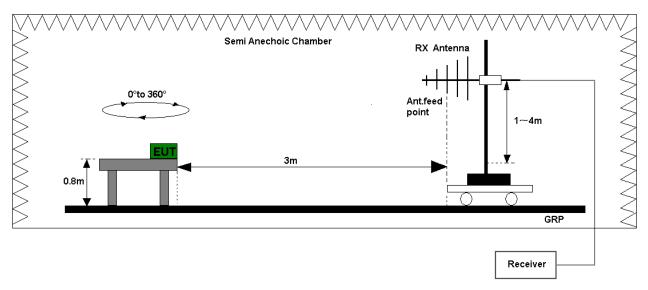


Figure 1. Test set-up of radiated disturbance(30MHz-1GHz)

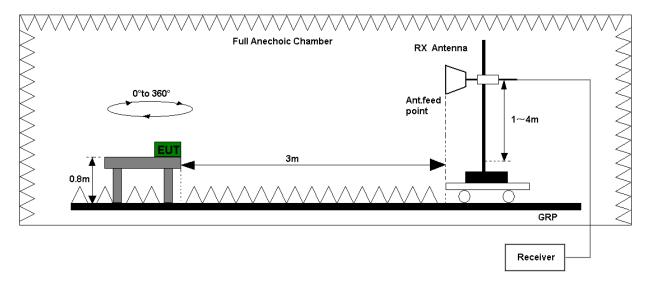


Figure 2. Test set-up of radiated disturbance(above 1GHz)



4.1.3 Test Results

The EUT has met the requirements for Radiated Emission of enclosure port. Refer to the section 7.1.1 of this report for test data.

Test Limits (Class B)						
Frequency of Emission	Radiated Limit					
(MHz)	Unit(µV/m)		Unit(dBµV/m)			
30-88	100		40			
88-216	150		4	43.5		
216-960	200			46		
Above 960	500			54		
Above 1000	AV	PK	AV	PK		
	500 5000		54	74		



4.2 Conducted Disturbance 0.15 MHz to 30MHz

4.2.1 Test Procedure

The Table-top EUT was placed upon a non-metallic table 0.8 m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm away from LISN. The set-up and test methods were according to ANCI C63.4: 2014 Conducted Disturbance at AC Port measurements were undertaken on the L and N Lines. The emissions were measured using a Quasi-Peak Detector and Average Detector.

EUT was communicated with the simulator through Air interface, the simulator controls the EUT to transmitter the maximum power which defined in specification of product. The EUT operated on the typical channel.

Measurement bandwidth (RBW) for 150 kHz to 30 MHz: 9 kHz;

The EUT was set in the shielded chamber and operated under nominal conditions.

4.2.2 Test Setup

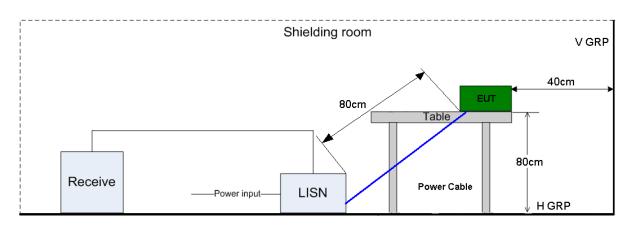


Figure 3. Test Set-up of conducted disturbance

4.2.3 Test Results

The EUT has met requirements for Conducted disturbance of power lines.

Refer to the section 7.2.1 of this report for test data.

Test Limit of AC Power Port					
Frequency range	150kHz ~ 30MHz				
Fraguesay	Voltage limits				
Frequency	QP (dBμV)	AV (dBμV)			
0.15MHz~0.5MHz 66-56		56-46			
0.5MHz-5MHz	56	46			
5MHz~30MHz	60	50			



5 Main Test Instruments

	Main Test Equipments									
Test item	Ins	Test trument	М	odel	S/N	Manufa er	ctur	Calibrated Deadline	Cal interval	
		MI Test eceiver	ESU26		100150	R&S		Jan.19, 2019	12	
		oadband Intenna	VULB 9163		9163-491	SCHWARZB ECK		Mar.28, 2019	24	
RE	_	n Antenna 1-18G)	HF906		100683	R&S		Mar.28, 2019	24	
		n Antenna 3-26.5G)	ETS 3160-9		5140299	ETS- LINDGREN		Jul.19, 2019	24	
	А	mplifier	SCU-40		10016	R&S		May.14, 2019	12	
	EMI Test receiver		Е	SCI	101163	R&S		Jan.18, 2019	12	
CE	_	cial Mains letwork			100134	R&S		May.07, 2019	12	
	_	cial Mains letwork	ENV216		100382	R&S		May.07, 2019	12	
				Softv	ware Informa	tion				
Test Item Software			Name		Manufacture		Version			
RE E		EMC3	2		R&S		V9.25.0			
CE		EMC3	2		R&S		V9.25.0			

6 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

System Measurement Uncertainty								
Items Extended Uncertainty								
RE(30MHz-1GHz)	Field strength (dBµV/m)	U=5.24dB; k=2						
RE(1GHz-18GHz)	Field strength (dBµV/m)	U=4.94dB; k=2						
RE(18GHz-26.5GHz)	Field strength (dBµV/m)	U=4.24dB; k=2						
CE	Disturbance Voltage (dBµV)	U=2.3dB; k=2						



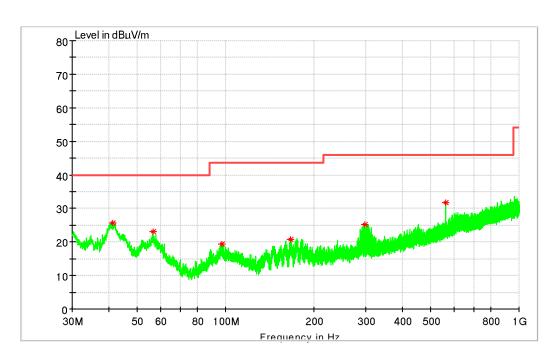
7 Test Data and Graph

Only the worst test results were shown

7.1 Radiated Disturbance

7.1.1 30MHz~1GHz

Test Mode 2:Charging+Camera On+ Earphone +idle



MEASUREMENT RESULT: QP Detector

Frequency	Level	Transd	Limit	Margin	Height	Azimuth	
MHz	dBµV/m	dB	dBµV/m	dB	cm	deg	Polarisation
41.203500	25.76	14.4	40.0	14.24	101	316	V
56.432500	23.01	14.0	40.0	16.99	115	7	V
97.124000	19.41	14.3	43.5	24.09	136	86	Н
166.236500	20.77	10.7	43.5	22.73	101	57	V
298.835500	25.20	15.4	46.0	20.80	140	49	Н
561.608500	31.69	21.1	46.0	14.31	123	144	V

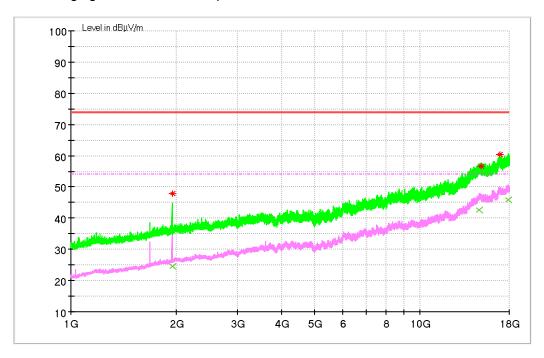
Note:

Level =Reading level by receiver + Transd (Antenna factor + cable loss – preamplifier gain) The reading level is calculated by software which is not shown in the sheet.



7.1.2 1GHz~18GHz

Test Mode 2: Charging + Camera On +Earphone +idle



MEASUREMENT RESULT: PK Detector

Frequency	Level	Transd	Limit	Margin	Height	Azimuth	Polarisation
MHz	dBµV/m	dB	dBµV/m	dB	cm	deg	Polarisation
1948.526667	47.78	-9.8	74	26.22	100	159	Н
14968.946667	56.61	17.5	74	17.39	200	9	V
16893.469333	60.27	21.0	74	13.73	126	254	Н

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
1948.547333	24.50	-9.8	54	29.50	112	172	Н
14744.756666	42.60	17.5	54	11.40	193	22	V
17915.555333	45.95	21.7	54	8.05	200	227	Н

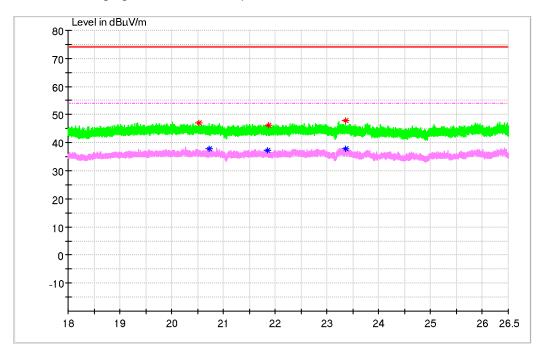
Note:

Level =Reading level by receiver + Transd (Antenna factor + cable loss – preamplifier gain) The reading level is calculated by software which is not shown in the sheet.



7.1.3 18GHz~26.5GHz

Test Mode 2:Charging+Camera On+ Earphone +idle



MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
20520.675	46.92	-4.7	74	27.08	126	76	V
21873.025	46.28	-4	74	27.72	172	296	V
23358.4	47.99	-3.1	74	26.01	120	136	V

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth Deg	Polarisation
20715.325	37.93	-4.7	54	16.07	142	52	V
21850.5	37.25	-4	54	16.75	135	182	V
23360.525	37.71	-3.1	54	16.29	155	353	V

Note:

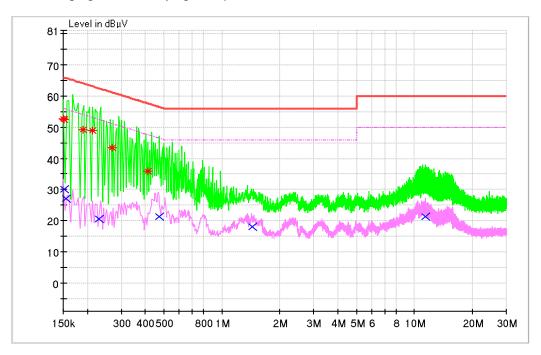
Level =Reading level by receiver + Transd (Antenna factor + cable loss – preamplifier gain) The reading level is calculated by software which is not shown in the sheet.



7.2 Conducted Disturbance

7.2.1 AC Port Test Data

Test Mode 3: Charging +Video Playing +Earphone +idle



MEASUREMENT RESULT: QP Detector

Frequency	Level	Line	Transd	Margin	Limit	DE
MHz	dΒμV	Line	dB	dB	dΒμV	PE
0.150056	52.62	L1	9.7	13.38	66.00	FLO
0.15117	52.33	Ν	9.7	13.6	65.93	FLO
0.190916	49.12	L1	9.7	14.88	64.00	FLO
0.212437	48.85	N	9.7	14.26	63.11	FLO
0.270411	43.36	N	9.7	17.75	61.11	FLO
0.414817	35.99	N	9.7	21.56	57.55	FLO

MEASUREMENT RESULT: AV Detector

Frequency	Level	Lina	Transd	Margin	Limit	DE
MHz	dΒμV	Line	dB	dB	dΒμV	PE
0.152396	30.18	N	9.7	25.69	55.87	FLO
0.154794	27.03	N	9.7	28.71	55.74	FLO
0.228812	20.67	N	9.7	31.82	52.49	FLO
0.4713	21.30	N	9.7	25.19	46.49	FLO
1.441159	18.16	N	9.7	27.84	46.00	FLO
11.411412	21.39	N	10	28.61	50.00	FLO

----END-----