

Report No.: SEWM2212000308RG06

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TEST REPORT

Application No.: SEWM2212000308RG

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, NFC and GNSS

Trade Mark: Sony

FCC ID: PY7-51629L

Standard(s): FCC 47 CFR Part 15, Subpart B

Date of Receipt: 2022/11/30

Date of Test: 2023/01/06 to 2023/01/10

Date of Issue: 2023/01/12

Test Result: Pass*

Authorized Signature:

Panta Sun

Wireless Laboratory Manager



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000 t (86–512) 629929

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



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Revision Record				
Version Chapter Date Modifier Remark				
01		2023/01/12		Original

Prepared By	(King-p Li) / Test Engineer
Checked By	(Well Wei) / Reviewer



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Test Summary

Emission Part						
Item	Method	Requirement	Result			
Conducted Emissions at Mains Terminals (150kHz-30MHz)	FCC 47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass		
Radiated Emissions (30MHz-1GHz)	FCC 47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass		
Radiated Emissions (above 1GHz)	FCC 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, NFC and GNSS			
Trade Mark:	Sony			
Hardware Version:	A			
Software Version:	0.256			
SN:	HQ62B20324			
	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	
Frequency Bands:	LTE Band 41	2496~2690	2496~2690	
	Wi-Fi 2.4G	2412~2462	2412~2462	
	Bluetooth	2402~2480	2402~2480	
	Wi-Fi 5G	5150~5850	5150~5850	
	NFC	13.56	13.56	
	GNSS (GPS L1C/A+Glonass G1+ Beidou B1I+Galileo E1)	/	1559~1610	

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Accessory:

Adapter No.	Model No.	Manufacturer
1	XQZ-UC1	Sony Corporation

USB cable no.	Model no.	Manufacturer
1	XQZ-UB1	Sony Corporation
2	UCB20	Sony Corporation

Earphone No.	Model No.	Manufacturer
1	MDR-EX15AP	Sony Corporation



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1.1 Description of Support Units

Description	Manufacturer	Model No.	Inventory No.
Router	Smavwave 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

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 Passaddress: Suzhou Area, China (Jiangsu) Pilot Free Trade Zone		
Post code: 215000		
Test engineer:	King-p Li	

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			
Receiver Setup:	RBW = 9kHz, VBW = 30kHz			
	Frequency Range (MHz)	Limit(dBµV)		
		Quasi-peak	average	
	0.15M-0.5MHz	66 ~ 56*	56 ~ 46*	
Limit:	0.5M-5MHz	56	46	
	5M-30MHz	60	50	
	*Decreases with the logarithm of the frequency			
	Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz			

2.1.1 E.U.T. Operation

Operating Environment:

Operating Environment.	
Temperature:	22~23°C
Humidity:	44~46%RH
Atmospheric Pressure:	101.0 kPa
	a: adapter+usb Cable+BT+2.4GWLAN +Camera(Rear)+GSM850
	b: adapter+usb Cable+BT+5GWLAN +Camera(Front)+WCDMA Band 5
Pretest these modes to	c: adapter+usb Cable+BT+2.4GWLAN +MP4+LTE Band 5
find the worst case:	d: adapter+usb Cable+BT+5GWLAN +GPS RX+GSM1900
	e: adapter+usb Cable+BT+2.4GWLAN +NFC ON+LTE Band 4
	f: Transfer data between the EUT and the PC+USB cable
The worst case for final	a: adapter+usb Cable+BT+2.4GWLAN +Camera(Rear)+GSM850
test:	f: Transfer data between the EUT and the PC+USB cable



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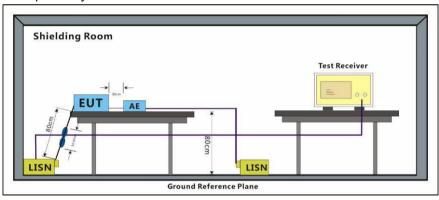


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2.1.2 Test Setup Procedures

- 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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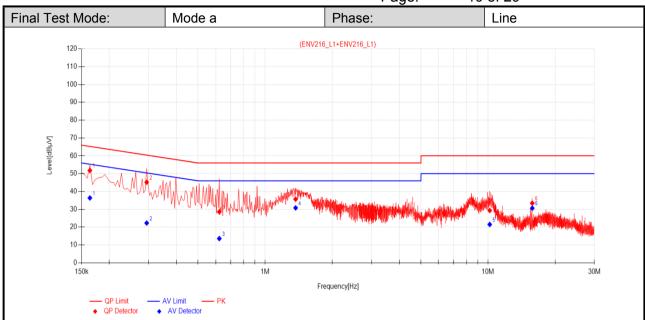
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Final	Final Data List										
NO	Frequenc y [MHz]	Facto r [dB]	QP Readin g [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margi n [dB]	AV Readin g [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margi n [dB]	Verdic t
1	0.1635	10.69	41.10	51.79	65.28	13.49	25.69	36.38	55.28	18.90	PASS
2	0.2940	10.65	34.53	45.18	60.41	15.23	11.67	22.32	50.41	28.09	PASS
3	0.6225	10.52	18.09	28.61	56.00	27.39	3.08	13.60	46.00	32.40	PASS
4	1.3695	10.78	24.91	35.69	56.00	20.31	20.04	30.82	46.00	15.18	PASS
5	10.1760	10.63	18.71	29.34	60.00	30.66	10.90	21.53	50.00	28.47	PASS
6	15.8010	10.51	22.95	33.46	60.00	26.54	20.14	30.65	50.00	19.35	PASS

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[dB μ V] Value[dB μ V]



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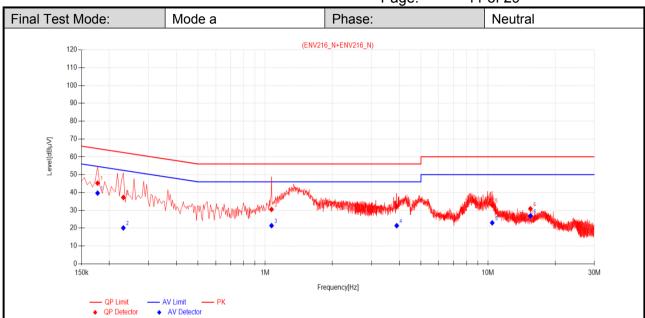
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Final	Final Data List										
NO	Frequenc y [MHz]	Facto r [dB]	QP Readin g [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margi n [dB]	AV Readin g [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margi n [dB]	Verdic t
1	0.1770	10.71	34.53	45.24	64.63	19.39	28.95	39.66	54.63	14.97	PASS
2	0.2310	10.70	26.51	37.21	62.41	25.20	9.44	20.14	52.41	32.27	PASS
3	1.0680	10.68	19.84	30.52	56.00	25.48	10.73	21.41	46.00	24.59	PASS
4	3.8940	10.73	21.50	32.23	56.00	23.77	10.68	21.41	46.00	24.59	PASS
5	10.4460	10.67	22.18	32.85	60.00	27.15	12.33	23.00	50.00	27.00	PASS
6	15.4995	10.59	20.28	30.87	60.00	29.13	16.25	26.84	50.00	23.16	PASS

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[dB μ V] Value[dB μ V]



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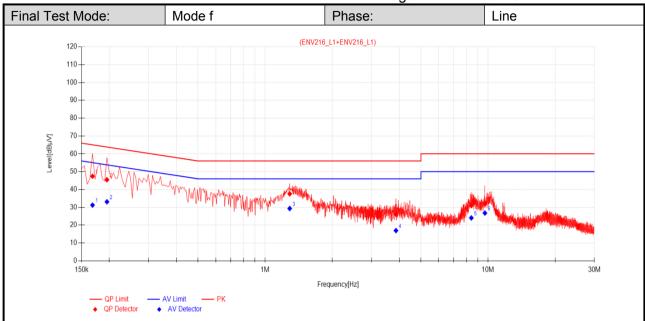
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Final	Final Data List										
NO	Frequenc y [MHz]	Facto r [dB]	QP Readin g [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margi n [dB]	AV Readin g [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margi n [dB]	Verdic t
1	0.1680	10.71	36.74	47.45	65.06	17.61	20.53	31.24	55.06	23.82	PASS
2	0.1950	10.81	34.65	45.46	63.82	18.36	22.30	33.11	53.82	20.71	PASS
3	1.2885	10.77	26.79	37.56	56.00	18.44	18.58	29.35	46.00	16.65	PASS
4	3.8625	10.73	15.30	26.03	56.00	29.97	6.24	16.97	46.00	29.03	PASS
5	8.4165	10.68	20.36	31.04	60.00	28.96	13.38	24.06	50.00	25.94	PASS
6	9.6855	10.64	21.47	32.11	60.00	27.89	16.13	26.77	50.00	23.23	PASS

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[dB μ V] Value[dB μ V]



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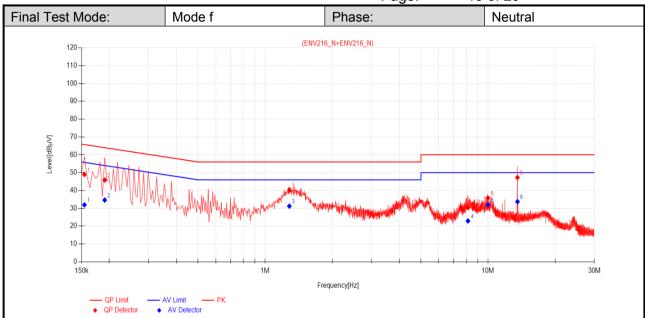
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Final	Final Data List										
NO	Frequenc y [MHz]	Facto r [dB]	QP Readin g [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margi n [dB]	AV Readin g [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margi n [dB]	Verdic t
1	0.1545	10.72	38.28	49.00	65.75	16.75	21.22	31.94	55.75	23.81	PASS
2	0.1905	10.67	35.21	45.88	64.01	18.13	23.97	34.64	54.01	19.37	PASS
3	1.2840	10.78	29.25	40.03	56.00	15.97	20.47	31.25	46.00	14.75	PASS
4	8.1285	10.58	19.80	30.38	60.00	29.62	12.34	22.92	50.00	27.08	PASS
5	9.9870	10.67	25.12	35.79	60.00	24.21	21.27	31.94	50.00	18.06	PASS
6	13.5600	10.62	36.70	47.32	60.00	12.68	23.08	33.70	50.00	16.30	PASS

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[dB μ V] Value[dB μ V]



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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					
	Frequency Range (MHz)	Limit(dBµV/m)	Detector			
	30MHz -88MHz	40.0	Quasi-peak			
Limit:	88MHz-216MHz	43.5	Quasi-peak			
	216MHz-960MHz	46.0	Quasi-peak			
	960MHz-1000MHz	54.0	Quasi-peak			
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz					

2.2.1 E.U.T. Operation

Zizii Zioiii opoiatioii						
Temperature:	22~23°C					
Humidity:	44~46%RH					
Atmospheric Pressure:	101.0 kPa					
	a: adapter+usb Cable+BT+2.4GWLAN +Camera(Rear)+GSM850					
	b: adapter+usb Cable+BT+5GWLAN +Camera(Front)+WCDMA Band 5					
Pretest these modes to	c: adapter+usb Cable+BT+2.4GWLAN +MP4+LTE Band 5					
find the worst case:	d: adapter+usb Cable+BT+5GWLAN +GPS RX+GSM1900					
	e: adapter+usb Cable+BT+2.4GWLAN +NFC ON+LTE Band 4					
	f: Transfer data between the EUT and the PC+USB cable					
The worst case for final	c: adapter+usb Cable+BT+2.4GWLAN +MP4+LTE Band 5					
test:	f: Transfer data between the EUT and the PC+USB cable					



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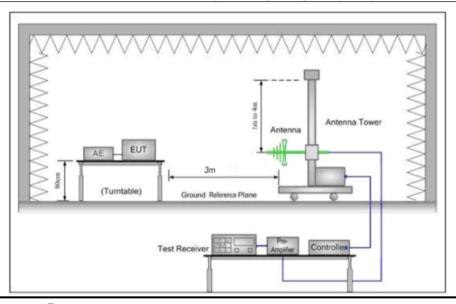


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2.2.2 Test Setup Procedures

- 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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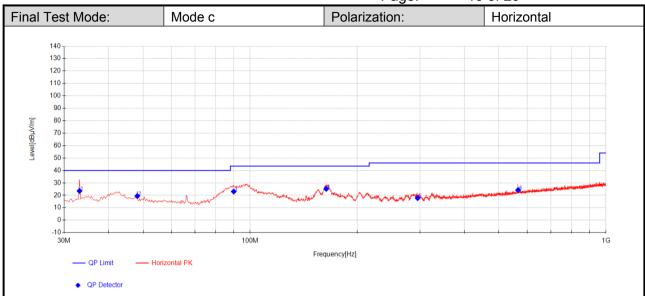
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Final	Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	33.1525	38.62	13.33	-28.42	23.52	40.00	16.48	102	21	Horizontal	
2	48.1875	33.86	13.58	-28.02	19.42	40.00	20.58	285	21	Horizontal	
3	89.8975	41.29	9.44	-27.67	23.06	43.50	20.44	263	56	Horizontal	
4	163.6175	37.63	14.24	-26.66	25.21	43.50	18.29	265	11	Horizontal	
5	295.5375	31.28	12.69	-26.20	17.77	46.00	28.23	241	21	Horizontal	
6	566.1675	31.24	17.69	-24.66	24.27	46.00	21.73	142	267	Horizontal	

Remark:

- 1. The Quasi-Peak measurements were performed on the EUT.
- 2. Value = Reading + AF + Factor:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Margin = Limit[dB μ V/m] –Value[dB μ V/m]



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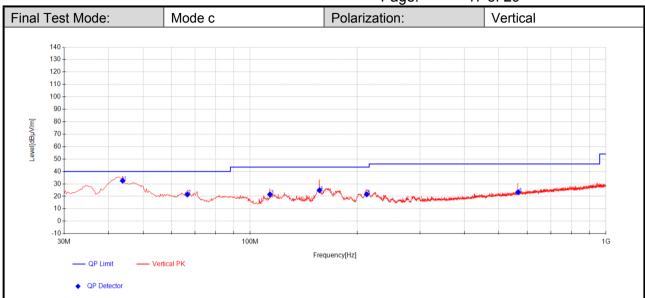
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Final	Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	43.8225	46.85	13.75	-28.05	32.55	40.00	7.45	102	98	Vertical	
2	66.6175	37.68	11.47	-27.70	21.45	40.00	18.55	286	98	Vertical	
3	113.6625	37.52	11.54	-27.53	21.53	43.50	21.97	265	338	Vertical	
4	156.585	37.86	14.03	-27.02	24.87	43.50	18.63	241	338	Vertical	
5	212.6025	37.86	10.32	-26.60	21.58	43.50	21.92	142	360	Vertical	
6	566.1675	30.28	17.69	-24.66	23.31	46.00	22.69	233	210	Vertical	

Remark:

- 1. The Quasi-Peak measurements were performed on the EUT.
- 2. Value = Reading + AF + Factor:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Margin = Limit[dB μ V/m] –Value[dB μ V/m]



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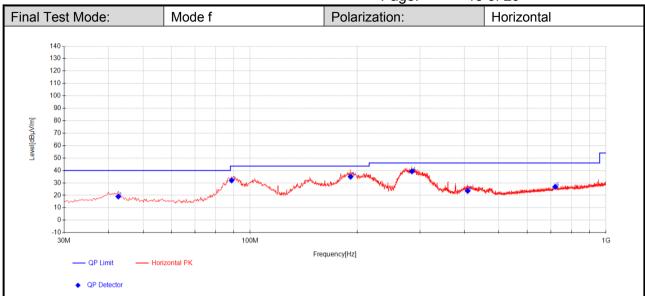
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Final	Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	42.61	33.25	13.85	-28.06	19.04	40.00	20.96	102	308	Horizontal	
2	88.685	50.26	9.42	-27.71	31.97	43.50	11.53	286	57	Horizontal	
3	191.505	50.24	11.93	-27.21	34.96	43.50	8.54	265	46	Horizontal	
4	284.8675	53.24	12.43	-26.40	39.26	46.00	6.74	241	43	Horizontal	
5	408.5425	34.26	14.95	-25.67	23.54	46.00	22.46	142	24	Horizontal	
6	719.67	30.29	19.89	-23.31	26.86	46.00	19.14	269	24	Horizontal	

Remark:

- 1. The Quasi-Peak measurements were performed on the EUT.
- 2. Value = Reading + AF + Factor:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Margin = Limit[dB μ V/m] –Value[dB μ V/m]



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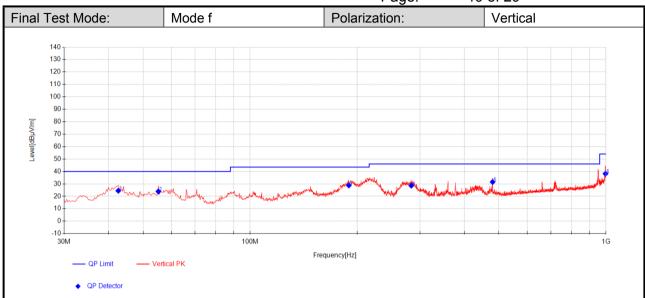
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Final	Final Data List										
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1	42.61	38.68	13.85	-28.06	24.47	40.00	15.53	102	252	Vertical	
2	55.22	38.62	13.13	-27.81	23.94	40.00	16.06	285	359	Vertical	
3	189.3225	43.56	12.45	-27.23	28.79	43.50	14.71	263	34	Vertical	
4	283.655	42.65	12.40	-26.48	28.57	46.00	17.43	255	360	Vertical	
5	480.08	40.29	16.29	-25.04	31.54	46.00	14.46	142	22	Vertical	
6	996.605	38.65	22.22	-22.71	38.16	54.00	15.84	263	0	Vertical	

Remark:

- 1. The Quasi-Peak measurements were performed on the EUT.
- 2. Value = Reading + AF + Factor:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Margin = Limit[dB μ V/m] –Value[dB μ V/m]



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2.3 Radiated Emissions (above 1GHz)

Test Requirement:	47 CFR Part 15, Subpa	47 CFR Part 15, Subpart B							
Test Method:	ANSI C63.4:2014								
Frequency Range:	Above 1GHz								
Measurement Distance:	3m								
	Frequency (MHz)	Limit (dBµV/m)	Detector						
Limit:	Above 4011=	74	Peak						
	Above 1GHz 54 Average								
Detector:	Peak for pre-scan (1000kHz resolution bandwidth) 5th harmonic of the highest frequency or 40GHz, whichever is lower.								

2.3.1 E.U.T. Operation

Temperature:	22~23°C			
Humidity:	44~46%RH			
Atmospheric Pressure:	101.0 kPa			
	a: adapter+usb Cable+BT+2.4GWLAN +Camera(Rear)+GSM850			
	b: adapter+usb Cable+BT+5GWLAN +Camera(Front)+WCDMA Band 5			
Pretest these modes to	c: adapter+usb Cable+BT+2.4GWLAN +MP4+LTE Band 5			
find the worst case:	d: adapter+usb Cable+BT+5GWLAN +GPS RX+GSM1900			
	e: adapter+usb Cable+BT+2.4GWLAN +NFC ON+LTE Band 4			
	f: Transfer data between the EUT and the PC+USB cable			
The worst case for final	c: adapter+usb Cable+BT+2.4GWLAN +MP4+LTE Band 5			
test:	f: Transfer data between the EUT and the PC+USB cable			



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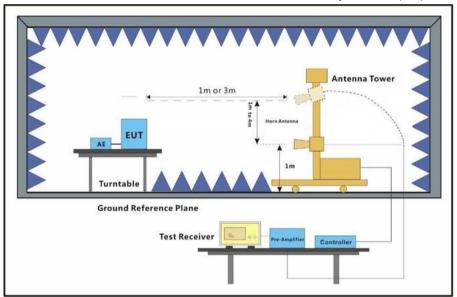


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2.3.2 Test Setup Procedures

- 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 (Distance from antenna to EUT is 1m for measurements >18GHz).
- 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.
- 7. At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB.



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 5th harmonic of the highest frequency or 40GHz, whichever is lower, the disturbance above 18GHz was very low. The points marked on below plots are the highest emissions could be found when testing, so only below points had been displayed.



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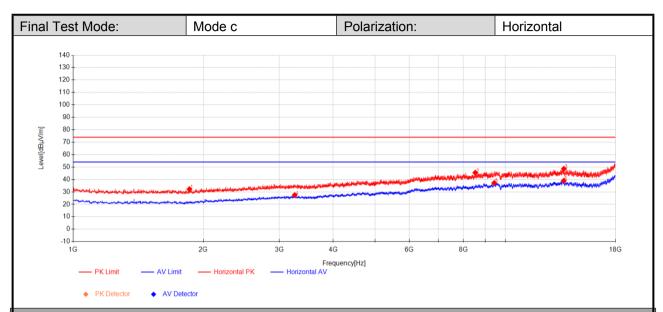
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Final D	Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1858.5	54.53	25.91	32.23	-48.21	74.00	41.77	296	353	Horizontal
2	8526.75	47.25	38.08	45.46	-39.87	74.00	28.54	265	157	Horizontal
3	13672.65	43.36	40.00	48.61	-34.76	74.00	25.39	284	26	Horizontal
4	3256.75	44.08	29.50	27.40	-46.18	54.00	26.60	142	132	Horizontal
5	9430.3	36.75	38.56	37.19	-38.12	54.00	16.81	263	157	Horizontal
6	13663.3	33.67	40.00	38.96	-34.71	54.00	15.04	224	237	Horizontal

Remark:

- 1. The Peak and Average measurements were performed on the EUT.
- 2. Level = Reading Level + AF + Factor:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit[dB μ V/m] - Level[dB μ V/m]



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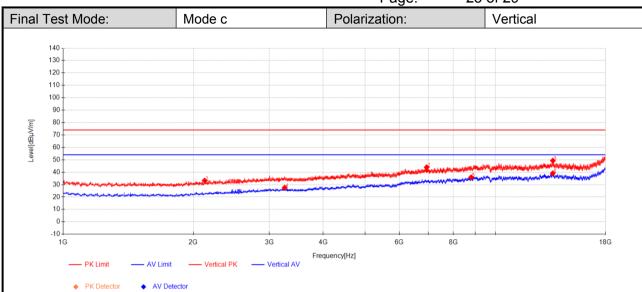
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NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2126.25	53.90	27.15	33.21	-47.84	74.00	40.79	196	6	Vertical
2	6941.5	50.48	36.08	43.97	-42.59	74.00	30.03	265	124	Vertical
3	13597.85	43.74	39.96	49.33	-34.37	74.00	24.67	284	21	Vertical
4	3255.9	44.17	29.50	27.49	-46.18	54.00	26.51	142	6	Vertical
5	8795.35	36.65	38.37	35.83	-39.20	54.00	18.17	263	254	Vertical
6	13585.95	33.42	39.95	39.05	-34.32	54.00	14.95	224	47	Vertical

Remark:

- 1. The Peak and Average measurements were performed on the EUT.
- 2. Level = Reading Level + AF + Factor:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit[dB μ V/m] - Level[dB μ V/m]



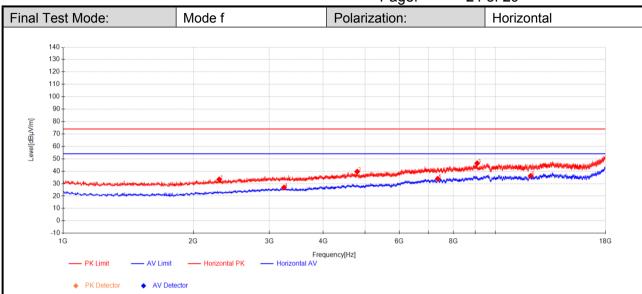
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1	2297.95	53.53	27.50	33.39	-47.63	74.00	40.61	296	261	Horizontal
2	4791.85	52.15	32.10	39.65	-44.61	74.00	34.35	265	184	Horizontal
3	9083.5	46.74	38.59	46.39	-38.94	74.00	27.61	241	27	Horizontal
4	3244	43.56	29.50	26.86	-46.20	54.00	27.14	142	261	Horizontal
5	7362.25	39.32	36.42	33.88	-41.86	54.00	20.12	263	3	Horizontal
6	12078.9	32.91	38.68	36.23	-35.36	54.00	17.77	224	359	Horizontal

Remark:

- 1. The Peak and Average measurements were performed on the EUT.
- 2. Level = Reading Level + AF + Factor:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit[dB μ V/m] - Level[dB μ V/m]



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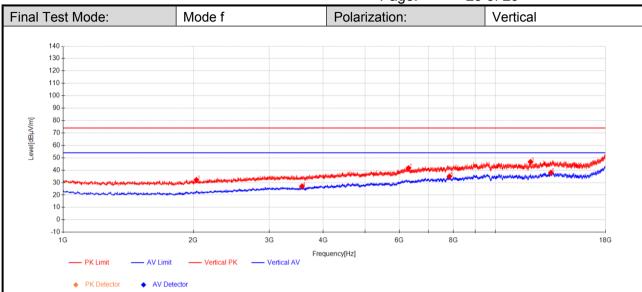
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Final D	Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2034.45	53.25	26.97	32.21	-48.01	74.00	41.79	196	1	Vertical
2	6298.9	49.82	34.80	41.68	-42.94	74.00	32.32	265	204	Vertical
3	12072.1	43.34	38.67	46.69	-35.32	74.00	27.31	241	0	Vertical
4	3571.25	43.42	29.57	27.02	-45.97	54.00	26.98	142	0	Vertical
5	7837.4	38.70	37.17	35.03	-40.84	54.00	18.97	263	178	Vertical
6	13452.5	32.54	39.87	37.95	-34.46	54.00	16.05	228	7	Vertical

Remark:

- 1. The Peak and Average measurements were performed on the EUT.
- 2. Level = Reading Level + AF + Factor:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit[dB μ V/m] - Level[dB μ V/m]



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Equipment List

CE Test System								
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)			
Wideband Radio Communication Tester	Anritsu	MT8820C	SUWI-01-16-08	2022/02/14	2023/02/13			
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15			
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18			
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/19	2023/02/18			
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/19	2023/02/18			
Measurement Software CE	Tonsend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR			



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		RE Test Sy	stem					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)			
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/05/08	2024/05/07			
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/02/16	2023/02/15			
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27			
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18			
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/05/16	2023/05/15			
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15			
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13			
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/02/14	2023/02/13			
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/02/14	2023/02/13			
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/02/19	2023/02/18			
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09			
Wideband Radio Communication Tester	Anritsu	MT8820C	SUWI-01-16-08	2022/02/14	2023/02/13			
Measurement Software	Tonscend	JS32-RE 4.0.0.0	SUWI-02-09-04	NCR	NCR			



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4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 2.9dB (150kHz to 30MHz)
		± 4.8dB (30MHz -1GHz)
2	Radiated Emission	± 4.8dB (1GHz to 18GHz)
		± 4.80dB (Above 18GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr/ETSI} (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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5 Photographs

5.1 Test Setup

Refer to Appendix A.1 15B Setup Photos.

---End of Report---



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