

Page: 1 of 47

FCC CERTIFICATION REPORT

Test Report No. : MH/2018/30036

: Sharp Corporation, Mobile Communication B.U. **Applicant**

Address : 2-13-1, Hachihonmatsu-lida, Higashi-hiroshima-shi, Hiroshima,

739-0192, Japan

Manufacturer : Sharp Corporation

: 1 Takumi-cho, Sakai-ku, Sakai City, Osaka 590-8522, Japan **Address**

Equipment Under Test (EUT): Product Name : Smart phone

Standards : FCC Part 15, Subpart B, Class B

FCC Designation Numbers: 916890 / TW1087

Date of Receipt: Mar. 07, 2018

Date of Test : Mar. 07 ~ Apr. 02, 2018

Date of Issue : Apr. 24, 2018

Test Result: **PASS**

In the configuration tested, the EUT complied with the standards specified above.

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report shall not be reproduced except in full, without the written approval of the laboratory. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

Thomas Liu (Engineer) Tested By: Date Apr. 24, 2018

Approved By Date Apr. 24, 2018



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Revision History

Report Number	Revision	Description	Issue Date
MH/2018/30036	Rev.00	Initial creation of document	Apr. 24, 2018

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1. General Information

1.1 Applicant & Manufacturer Information

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Hiroshima, 739-0192, Japan

Manufacturer : Sharp Corporation

Address of Manufacturer: 1 Takumi-cho, Sakai-ku, Sakai City, Osaka 590-

8522, Japan

1.2 General Description of EUT

Product Name : Smart phone

1.3 Details of EUT

Power Supply : AC 100~240V,50/60Hz

Highest operate description : 1886 MHz

. Model No.: UBATIA286AFN2 **Battery**

Supplier: SCUD(FUJIAN) Electronics Co., Ltd.

3.85V, 3130mAh

: CE, Below RE worst case : Config 2 Worst case

Above RE worst case: Config 3

Normal Memory RAM-Micron / UFS-Toshiba	Worst case
RAM-Micron / UFS-Sumsung	V
RAM-Sumsung / UFS-Sumsung	V
RAM-Sumsung / UFS-Toshiba	V

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AC Charger : PHIHONG / SB-AC19-TCPD Data Cable : Luxshare-ICT/L6KU3003-CS-R Headset : Sony / MDR-EX15AP	Config 1	Config 2	Config 3	
Applicable standard	F	CC 15B		
Accessories	EUT + AC Adaptor +USB Cable +PHF	EU⊺ +USB Cable +PHF	EUT + AC Adaptor +USB Cable +PHF	
Main function	Speech	Data Link	Camera	
Additional function	BT+WiFI +GPS+NFC			
Description				
radiated emission	GSM 850/1900 WCDMA BII/IV/V LTE B02/04/05/12/13/17/38	Data R/W	MP3/ ;REC mode (Front/Back) ;play REC	
conducted emission (DC Power)	NA	NA	NA	
conducted emission (AC Power)	GSM 850/1900 WCDMA BII/IV/V LTE B02/04/05/12/13/17/38	Data R/W	MP3/ ;REC mode (Front/Back) ;play REC	

1.4 Operation Procedure

Config 1

- Let EUT plug in SD Card & SIM Card, connect to Adapter with USB cable and turn it on.
- 2. Let EUT connect to headphones and play 1k sound source.
- 3. NB & EUT Link AP-WiFi (5G/2.4G) and ping EUT IP.
- 4. BT connect to Bluetooth speaker and turn on NFC function.
- 5. Set up base station, set channel (GSM850/1900, WCDMA B/2/B4/B5, LTE B2/B4/B5/B12/B13/B17/B38) and transmit data.
- 6. Set up GPS simulator and turn on GPS test app.
- 7. Start the test.

Config 2

- 1. Let EUT plug in SD Card & SIM Card, connect to NB_1 with USB cable and turn it on
- 2. Let EUT connect to headphones and play 1k sound source.
- 3. NB 2 & EUT Link AP-WiFi Worst(5G/2.4G) and ping EUT IP.
- 4. BT connect to Bluetooth speaker and turn on NFC function.
- 5. Set up GPS simulator and turn on GPS test app.
- 6. NB 1 and EUT execute Data Read/Write.
- 7. Start the test.

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Config 3

- 1. Let EUT plug in SD Card & SIM Card, connect to Adapter with USB cable and turn it on.
- 2. Let EUT connect to headphones and play 1k sound source.
- 3. NB_2 & EUT Link AP-WiFi Worst(5G/2.4G) and ping EUT IP.
- 4. BT connect to Bluetooth speaker and turn on NFC function.
- 5. Set up GPS simulator and turn on GPS test app.
- 6. Turn on the CAMERA function of EUT to test front and rear camera recordings and video play video files.
- 7. Start the test.

1.5 Description of Support Units

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
SIM Card	R&S	CMW-Z05	8952530076180138474
BT Speaker	Creative	MF8090	YFMF8090245R00855Y
Radio Communication Analyzer	R&S	CMU200	102189
Radio Communication Analyzer	R&S	CMW500	1201.002K50-152303-Zr
AP	BUFFALO	WZR-HP-G300NH2	44066221202559[[G]]
GPS Signal Generator	Spectracom	GSG53 GNSS4	200218
Notebook (HRE.RE)	DELL	P56F	59WSJ72
Notebook (CE)	DELL	Latitude E5430	COVZYW1
Mouse (HRE.RE,CE)	DELL	MS111-T	CN-OKW2YH-71616-345-OL7T
Printer (HRE.RE,CE)	HP	VCVRA-1004	CN33K19J3F
Micro SD	Transcend	Micro SDHC (Class4)	N/A
Adapter	PHIHONG	SB-AC19-TCPD	N/A
Headset	Sony	MDR-EX15AP	N/A

Support Equipment Used in Tested Cable

	-90		5
Cable Type	Core	Length	Shielding/Non-shielding
USB Cable	N/A	1m	Shielding
Earphone	N/A	1.3m	Non-shielding

1.6 Modification List

No modification was made by SGS Taiwan Electronics & Communication Laboratory.

1.7 Accessories Cable List

Cable Type	Core	Length	Shielding/Non-shielding
N/A	N/A	N/A	N/A

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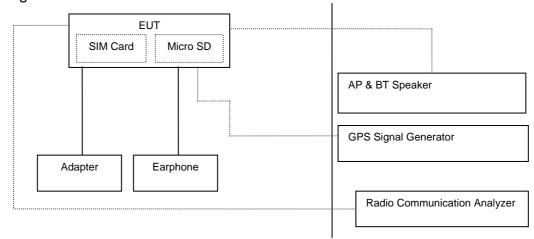


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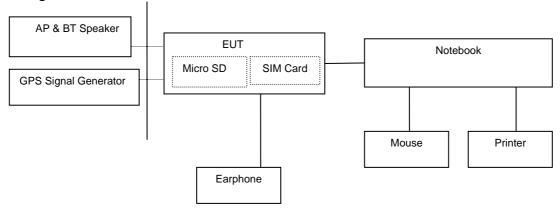


1.8 Test Set-Up Configuration

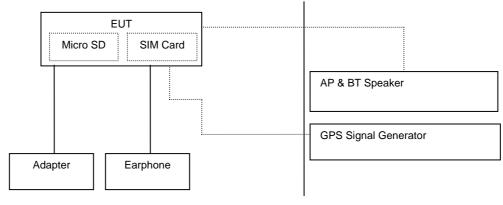
Config 1



Config 2



Config 3



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1.9 Measurement Procedure

Conducted Emission Testing was performed according to ANSI C63.4:2014 in a shielded room with peripherals placed on a table, 0.8m high over a metal floor. It was located more than required distance away from the shielded room wall.

Radiated Emission Testing was performed according to ANSI C63.4:2014 at the 3/10m semi-anechoic chamber. The EUT was placed on a 0.8m high table along with the peripherals. The turn table was placed 10m distance from the antenna. Cables were placed in a position to produce maximum emissions as determined by experimentation, and operation mode was selected for production of maximum emission.

The frequencies and amplitudes of maximum emission were measured at varying azimuths, antenna heights and antenna polarities. Maximum emission levels are then reported.

1.10 Standards Applicable for Testing

Tests to be carried out under FCC Part 15. Subpart B/CISPR 22

Test Standards	Status
FCC Part 15, Subpart B/ CISPR 22	Applicable
Deviation from Standard	No deviation

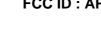
1.11 Summary of Results

Highest Emission						
Standard Test Type Result Phase/Pol. Frequency(MHz) Margin(o					Margin(dB)	
ECC Dowt 45 Cubrant D	Conducted Emission	PASS	Line	0.1780	-18.45 (QP)	
FCC Part 15 Subpart B Class B		Conducted Emission	Conducted Emission	Conducted Emission PASS Net	Neutral	0.1700
Class B	Radiated Emission	PASS	Ver.	480.0000	-6.88 (QP)	

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2. EMISSION

2.1 Test Results

	Results
Conducted Emission	Pass
Radiated Emission	Pass

2.2 Frequency Range

FCC Part 15, Subpart B:

Conducted Emission : 150 kHz - 30 MHz Radiated Emission : See below table

Highest frequency generated or Upper frequency of measurement used in the device or on which the range (MHz)

device operates or tunes (MHz)

Below 1.705 30 1.705 - 1081000 108 - 500 2000 500 - 1000 5000

Above 1000 5th harmonic of the highest frequency or

40 GHz, whichever is lower

2.3 Limits of Conducted and Radiated Emission

2.3.1 Limits of Conducted Emission

FCC Part 15, Subpart B/CISPR 22:

FREQUENCY	Class A (dBuV)		Class B (dBuV)	
(MHz)	Quasi - peak	Average	Quasi - peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

Note: (1) The lower limit shall apply at the transition frequencies.

- (2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.
- (3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected there to, shall not exceed the level of field strengths specified above.

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2.3.2 Limits of Radiated Emissions

FCC Part 15, Subpart B Limit:

Detector Function : Quasi – Peak

- Bototor i dilottori : Quadri i car			
FREQUENCY	Class A (at 10m)	Class B (at 3m)	
(MHz)	dBuV/m	dBuV/m	
30~88	39	40	
88~216	43.5	43.5	
216~960	46.44	46	
Above 960	49.54	54	

Detector Function : Peak , Average

FREQUENCY	Class A (dBu	uV/m) (at 3m)	Class B (dBuV/m) (at 3m)		
(MHz)	Peak	Average	Peak	Average	
Above 1000	79.3	59.3	73.9	53.9	

CISPR 22 Limit:

Detector Function : Quasi – Peak

FREQUENCY	Class A (at 10m)	Class B (at 10m)		
(MHz)	dBuV/m	dBuV/m		
30-230	40	30		
230-1000	47	37		

NOTE 1 The lower limit shall apply at the transition frequency.

NOTE 2 Additional provisions may be required for cases where interference occurs.

FREQUENCY	Class A (dB	BuV/m) (at 3m)	Class B (dBuV/m) (at 3m)		
(GHz)	Average	Peak	Average	Peak	
1~3	56	76	50	70	
3~6	60	80	54	74	

NOTE The lower limit applies at the transition frequency.

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2.4.Test of Conducted Emission

2.4.1 Test Equipments

SG	SS Conducted_Emis	ssion HWAYA Conducte	d Room No.A_E	MC	
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration	Calibration
EQUI MENT THE	Mandiacturer	Wodel Nambel	Ochai Namber	Date	Due
EMI Test Receiver	R&S	ESCI 3	101311	2017/6/23	2018/6/22
Coaxial Cables	EMC Instruments	EMCRG58-BM-BM-	160812	2017/8/12	2018/8/11
Coaxiai Cables	Corp	3000	100012	2017/0/12	2010/0/11
LISN	SCHWARZBECK	NSLK 8127	8127-648	2017/6/18	2018/6/17
Pulse Limiter	Narda S.T.S.	PMM PL01	1110X30602	2017/8/12	2018/8/11
LISN	Schwarzbeck	NSLK 8128	NSLK8128-	2017/9/4	2018/9/3
LISIN	Scriwarzbeck	NOLN 0120	300	2017/9/4	2010/9/3
Universal Digital Radio	R&S	CMU 200	119988	2018/2/22	2019/2/21
Communication Tester	Ras	CIVIO 200	119900	2010/2/22	2019/2/21
Wideband Radio	R&S	CMW 500	152303	2018/2/21	2010/2/20
Communication Tester	RAS	CIVIVV 500	152303	2010/2/21	2019/2/20
Test S/W	Farad	EZ-EMC	Ver. SGS-	N.C.R.	N.C.R.
1621 2/11	raidu	EZ-EIVIC	03A2	IN.C.K.	N.C.R.

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Measurement Uncertainty of Conducted Emission

Expanded uncertainty Ulab(K=2) of conducted emission is 2.25 dB

Theory values uncertainty Ucispr 16-4-2:2011+A1 2014

(K=2) of AC mains conducted Emission is 3.44dB

2.4.2 Operating Environment

Temperature: 21 degree C Humidity: 60 %RH

Atmospheric Pressure: 992 mBar

2.4.3 Measurement Level Calculation

Factor = LISN insertion loss + Cable loss + Pulse Limiter Insertion Loss Measurement Level = Reading Level + Factor

Over (Margin) = Measurement Level – Limit

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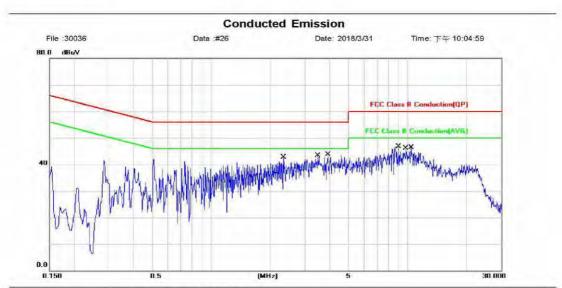


2.4.4 Measurement Data:

Config_1_L

21 °C Phase: Temperature: Site: Conduction Room L1 AC 120V/60Hz Humidity: 60 % Limit: FCC Class B Conduction(QP) Power:

Mode: Config_1 Note: LTE B4 Link



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		2.3340	35.40	0.26	35.66	56.00	-20.34	QP	
2		2.3340	25.40	0.26	25,66	46.00	-20.34	AVG	
3		3.5020	36.12	0.35	36.47	56.00	-19.53	QP	
4		3.5020	27.04	0.35	27.39	46.00	-18.61	AVG	
5		3.9300	37.02	0.38	37.40	56.00	-18.60	QP	
6	*	3.9300	27.30	0.38	27.68	46.00	-18.32	AVG	
7		9.0460	37,96	0.64	38.60	60.00	-21.40	QP	
8		9.0460	28.17	0.64	28.81	50.00	-21.19	AVG	
9		9.8580	38.90	0.69	39.59	60.00	-20.41	QP	
10		9.8580	28.00	0.69	28.69	50.00	-21.31	AVG	
11		10,4100	38.03	0.69	38.72	60.00	-21.28	QP	
12		10.4100	27.54	0.69	28.23	50.00	-21.77	AVG	

*:Maximum data x:Over limit I:over margin

File :30036\Data :#26 Page: 1

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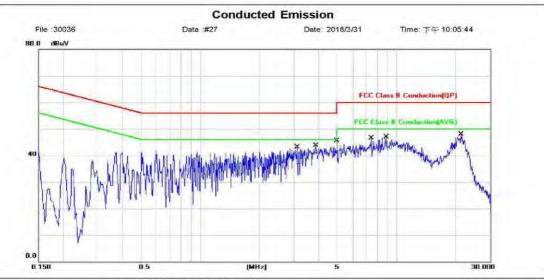


Config_1_N

Temperature: 21 °C Site: Conduction Room Phase: Limit: FCC Class B Conduction(QP)

Mode: Config_1 Note: LTE B4 Link

AC 120V/60Hz Humidity: 60 % Power:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		3.1100	37.36	0.26	37.62	56.00	-18.38	QP	
2		3.1100	27,07	0.26	27.33	46.00	-18.67	AVG	
3	*	3.8860	37.44	0.27	37.71	56.00	-18.29	QP	
4		3.8860	27,20	0.27	27.47	46.00	-18.53	AVG	
5		4.9860	36.66	0.29	36.95	56.00	-19.05	QP	
6		4.9860	26.67	0.29	26.96	46.00	-19.04	AVG	
7		7.4100	39.55	0.38	39.93	60.00	-20.07	QP	
8		7.4100	29.07	0.38	29.45	50.00	-20.55	AVG	
9		8.8820	39.22	0.43	39.65	60.00	-20.35	QP	
10		8.8820	29.21	0.43	29.64	50.00	-20.36	AVG	
11		21,3140	40.85	0.77	41.62	60.00	-18.38	QP	
12		21.3140	28.31	0.77	29.08	50.00	-20.92	AVG	

*:Maximum data x:Over limit I:over margin

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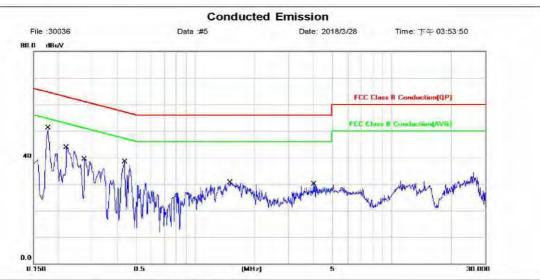


Config_2_L

21 °C Site: Conduction Room Phase: L1 From System Humidity: 63 % Power:

Limit: FCC Class B Conduction(QP) Mode: Config 2

Note: AC 120V/60Hz , Data R/W (Read)



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1780	46.10	0.03	46.13	64.58	-18.45	QP	
2		0.1780	28.80	0.03	28,83	54.58	-25.75	AVG	
3		0.2220	38.90	0.03	38.93	62.74	-23.81	QP	
4		0.2220	25.30	0.03	25.33	52.74	-27.41	AVG	
5		0.2740	36.70	0.03	36.73	61.00	-24.27	QP	
6		0.2740	22.50	0.03	22.53	51.00	-28.47	AVG	
7		0.4380	34.30	0.04	34.34	57.10	-22.76	QP	
8		0.4380	21.30	0.04	21.34	47.10	-25.76	AVG	
9		1.5100	28.30	0.16	28.46	56.00	-27.54	QP	
10		1.5100	21.10	0.16	21.26	46.00	-24.74	AVG	
11		4.0300	24.50	0.38	24.88	56.00	-31.12	QP	
12		4.0300	18.00	0.38	18.38	46.00	-27.62	AVG	

*:Maximum data x:Over limit I:over margin

File:30036\Data:#5 Page: 1

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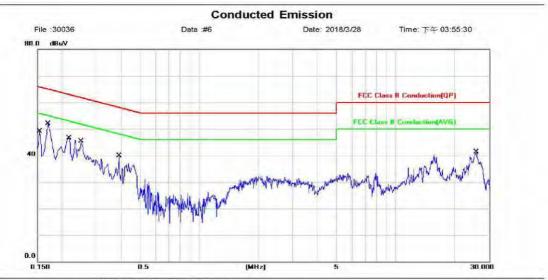


Config_2_N

Temperature: 21 °C Site: Conduction Room Phase: Limit: FCC Class B Conduction(QP) From System Humidity: 63 % Power:

Mode: Config 2

Note: AC 120V/60Hz , Data R/W (Read)



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1540	47.70	0.12	47.82	65.78	-17.96	QP	
2)	0.1540	27,10	0.12	27.22	55.78	-28.56	AVG	
3	*	0.1700	49,30	0.12	49.42	64.96	-15.54	QP	
4		0.1700	35.30	0.12	35.42	54.96	-19.54	AVG	
5		0.2180	41.70	0.11	41.81	62.89	-21.08	QP	
6		0.2180	28.70	0.11	28.81	52.89	-24.08	AVG	
7		0.2500	39.30	0.11	39.41	61.76	-22.35	QP	
8		0.2500	27.60	0.11	27.71	51 76	-24.05	AVG	
9		0.3900	30.90	0.12	31.02	58.06	-27.04	QP	
10		0.3900	22.50	0.12	22.62	48.06	-25.44	AVG	
11		25.8180	30.40	0.88	31.28	60.00	-28.72	QP	
12		25.8180	23.10	0.88	23.98	50.00	-26.02	AVG	
_									

*:Maximum data x:Over limit I:over margin

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Config_3_L

19 °C Site: Conduction Room Phase: L1

Limit: FCC Class B Conduction(QP)

Mode: Config 3 Note: MP3

AC 120V/60Hz Humidity: 70 % Power:

	C	onducted Emission	
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		FCC	Class B Conduction(AVS)
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1540	36.30	0.04	36.34	65.78	-29.44	QP	
2		0.1540	17,30	0.04	17.34	55.78	-38,44	AVG	
3		0.1980	32.60	0.03	32.63	63.69	-31.06	QP	
4		0.1980	16.30	0.03	16.33	53.69	-37.36	AVG	
5	*	0.4380	29.90	0.04	29.94	57.10	-27.16	QP	
6		0.4380	17.10	0.04	17.14	47.10	-29.96	AVG	
7		0.5100	27.60	0.05	27.65	56.00	-28.35	QP	
8		0.5100	16.20	0.05	16.25	46.00	-29.75	AVG	
9		0.6260	22.70	0.05	22.75	56.00	-33.25	QP	
10		0.6260	13.90	0.05	13.95	46.00	-32.05	AVG	
11		4.5580	25.20	0.40	25.60	56.00	-30.40	QP	
12		4.5580	14.30	0.40	14.70	46.00	-31.30	AVG	

*:Maximum data x:Over limit I:over margin

File :30036\Data :#24 Page: 1

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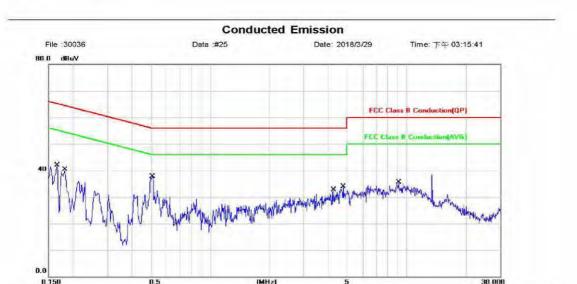


Config_3_N

19 °C Site: Conduction Room Phase: AC 120V/60Hz Humidity: 70 % Power:

Limit: FCC Class B Conduction(QP)

Mode: Config 3 Note: MP3



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1660	38.90	0.12	39.02	65.16	-26.14	QP	
2		0.1660	21,50	0.12	21.62	55.16	-33.54	AVG	
3		0.1820	36.10	0.11	36.21	64.39	-28.18	QP	
4		0.1820	20.40	0.11	20.51	54.39	-33.88	AVG	
5		0.5100	33,90	0.12	34.02	56.00	-21.98	QP	
6	*	0.5100	27.20	0.12	27.32	46.00	-18.68	AVG	
7		4.2660	27.10	0.27	27.37	56.00	-28.63	QP	
8		4.2660	20.00	0.27	20.27	46.00	-25.73	AVG	
9		4.7620	25.70	0.28	25.98	56.00	-30.02	QP	
10		4.7620	15.90	0.28	16.18	46.00	-29.82	AVG	
11		9.1260	30.00	0.44	30.44	60.00	-29.56	QP	
12		9.1260	16.50	0.44	16.94	50.00	-33.06	AVG	

*:Maximum data x:Over limit I:over margin

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2.5 Test of Radiated Emission

2.5.1 Test Equipments

Below 1GHz

SGS Radiated_Below_1GHz HWAYA 10m_EMC												
FOLUDIAENT TVDE	Manufacturer	Madal Niveshau	Serial	Calibration	Calibration							
EQUIPMENT TYPE	Manufacturer	Model Number	Number	Date	Due							
EMI Test Receiver	R&S	ESCI 7	100924	2017/10/20	2018/10/19							
EMI Test Receiver	R&S	ESCI 3	101343	2018/1/5	2019/1/4							
Broadband Antenna	SCHWAZBECK	VULB9168	9168-628	2017/9/8	2018/9/7							
Broadband Antenna	SCHWAZBECK	VULB9168	9168-629	2017/9/12	2018/9/11							
Pre Amplifier	EMC Instruments Corp.	EMC330	980178	2018/3/31	2019/3/30							
Pre Amplifier	EMC Instruments Corp.	EMC330	980179	2018/3/31	2019/3/30							
Coaxial Cable	EMC Instruments	EMCCFD400- NM-NM	150917	2017/9/18	2018/9/17							
Coaxial Cable	EMC Instruments	EMCCFD400- NM-NM	150919	2017/9/18	2018/9/17							
Coaxial Cable	EMC Instruments	EMCCFD400- NM-NM	150820	2017/9/18	2018/9/17							
Coaxial Cable	EMC Instruments	EMCCFD400- NM-NM	150918	2017/9/18	2018/9/17							
Coaxial Cable	EMC Instruments	EMCCFD400- NM-NM	150821	2017/9/18	2018/9/17							
Coaxial Cable	EMC Instruments	EMCCFD400- NM-NM	150822	2017/9/18	2018/9/17							
Universal Digital Radio Communication Tester	R&S	CMU 200	119988	2018/2/22	2019/2/21							
Wideband Radio Communication Tester	R&S	CMW 500	152303	2018/2/21	2019/2/20							
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.							
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.							
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.							
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.							
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.							
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.							
Site NSA	Chance Most	10M Chamber	10M SAC	2017/12/31	2018/12/30							
Test S/W	Farad	EZ-EMC	Ver. SGS- 03A2	N.C.R.	N.C.R.							

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No.2, Keji 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

Measurement Uncertainty of Radiated Emission

Expanded uncertainty Ulab (K=2) of radiated emission is 4.09 dB. (30MHz ~ 1000MHz)

Theory values uncertainty Ucispr 16-4-2:2011+A1:2014

(K=2) of radiated emission is 5.22 dB. (30MHz ~ 1000MHz)

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Above 1GHz

SGS Radiated_Above_1GHz HWAYA 966A_EMC										
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due					
Spectrum Analyzer	R&S	FSV 40	100979	2017/12/21	2018/12/20					
EMI Test Receiver	R&S	ESR 7	101459	2018/2/21	2019/2/20					
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA9120D67 3	2017/10/16	2018/10/15					
Horn Antenna	Schwarzbeck	BBHA9170	BBHA9170-184	2017/12/12	2018/12/11					
Pre Amplifier	EMC Instruments Corp.	EMC012645B	980216	2017/4/25	2018/4/24					
Pre Amplifier	EMC Instruments Corp.	EMC184045B	980135	2017/10/27	2018/10/26					
Coaxial Cable	JUNFLOW	MWX221- NMSNMS	J0778929	2017/4/23	2018/4/22					
Coaxial Cable	Huber+Suhner	SUCCOFLEX 104PEA	30255/4PEA	2017/4/23	2018/4/22					
Coaxial Cable	EMC Instruments	EMC104-SM-SM	140927	2017/4/23	2018/4/22					
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	MY 2152/2	2017/6/5	2018/6/4					
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	MY 2153/2	2017/6/5	2018/6/4					
Universal Digital Radio Communication Tester	R&S	CMU 200	119988	2018/2/22	2019/2/21					
Wideband Radio Communication Tester	R&S	CMW 500	152303	2018/2/21	2019/2/20					
Controller	MF	MF-7802	N.C.R.	N.C.R.	N.C.R.					
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.					
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.					
Site VSWR	SGS	966 Chamber A	SAC-A	2018/1/12	2019/1/11					
Test S/W	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.					

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Measurement Uncertainty of Radiated Emission

Expanded uncertainty (k=2) of radiated emission measurement is 5.05 dB. (1-6GHz)

Expanded uncertainty (k=2) of radiated emission measurement is 5.07 dB. (6-18GHz)

Expanded uncertainty Ulab (k=2) of radiated emission measurement is 5.19 dB. (18-26GHz)

Expanded uncertainty Ulab (k=2) of radiated emission measurement is 5.14 dB. (26-40GHz)

Theory values uncertainty Ucispr 16-4-2:2011+A1:2014

(K=2) of radiated emission measurement is 5.18 dB.(1-6GHz)

Theory values uncertainty Ucispr 16-4-2:2011+A1:2014

(K=2) of radiated emission measurement is 5.48 dB.(6-18GHz)

Theory values uncertainty Ucispr 16-4-2:2011+A1:2014

(K=2) of radiated emission measurement is ---- dB.(18-26GHz)

Theory values uncertainty Ucispr 16-4-2:2011+A1:2014

(K=2) of radiated emission measurement is ---- dB.(26-40GHz)

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2.5.2 Operating Environment

Temperature: 20 degree C Humidity: 52 %RH

Atmospheric Pressure: 996 mBar

2.5.3 Measurement Level Calculation

Correction Factor = Antenna Factor + Cable loss- Amplifier Gain Measurement Level = Reading Level + Correction Factor Over (Margin) = Measurement Level – Limit

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2.5.4 Measurement Data

Below 1GHz

Config_1_H

Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

Mode: Config_1

Note: (1st source of memory) 3-4

WCDMA BIV

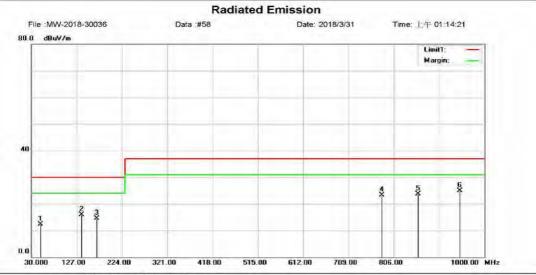
Polarization: Horizontal Power: AC 120V/60Hz

Temperature:

20 ℃

Humidity: 52 %

Distance: 10m



Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
	49,4000	23.33	-11.10	12.23	30.00	-17.77	QP		
	137.6700	27.98	-12.09	15.89	30,00	-14.11	QP		
	169.6800	25.61	-11.20	14.41	30.00	-15.59	QP		
	780.7800	23.61	-0.32	23.29	37.00	-13.71	QP		
	858.3800	23.54	0.18	23.72	37.00	-13.28	QP		
*	947.6200	23.34	1.65	24.99	37.00	-12.01	QP		
		MHz 49.4000 137.6700 169.6800 780.7800 858.3800	Mk. Freq. Level MHz dBuV 49.4000 23.33 137.6700 27.98 169.6800 25.61 780.7800 23.61 858.3800 23.54	Mk. Freq. Level Factor MHz dBuV dB/m 49.4000 23.33 -11.10 137.6700 27.98 -12.09 169.6800 25.61 -11.20 780.7800 23.61 -0.32 858.3800 23.54 0.18	Mk. Freq. Level Factor Ment ment MHz dBuV dB/m dBuV/m 49.4000 23.33 -11.10 12.23 137.6700 27.98 -12.09 15.89 169.6800 25.61 -11.20 14.41 780.7800 23.61 -0.32 23.29 858.3800 23.54 0.18 23.72	Mk. Freq. Level Factor MB/m ment dBuV/m Limit dBuV/m 49.4000 23.33 -11.10 12.23 30.00 137.6700 27.98 -12.09 15.89 30.00 169.6800 25.61 -11.20 14.41 30.00 780.7800 23.61 -0.32 23.29 37.00 858.3800 23.54 0.18 23.72 37.00	Mk. Freq. Level Factor ment Limit Over MHz dBuV dB/m dBuV/m dBuV/m dB 49.4000 23.33 -11.10 12.23 30.00 -17.77 137.6700 27.98 -12.09 15.89 30.00 -14.11 169.6800 25.61 -11.20 14.41 30.00 -15.59 780.7800 23.61 -0.32 23.29 37.00 -13.71 858.3800 23.54 0.18 23.72 37.00 -13.28	Mk. Freq. Level Factor ment Limit Over MHz dBuV dBuW dBuV/m dBuV/m dBuV/m dB Detector 49.4000 23.33 -11.10 12.23 30.00 -17.77 QP 137.6700 27.98 -12.09 15.89 30.00 -14.11 QP 169.6800 25.61 -11.20 14.41 30.00 -15.59 QP 780.7800 23.61 -0.32 23.29 37.00 -13.71 QP 858.3800 23.54 0.18 23.72 37.00 -13.28 QP	Mk. Freq. Level Factor ment Limit Over MHz dBuV dBuV dBuV/m dBuV/m dB Detector Comment 49.4000 23.33 -11.10 12.23 30.00 -17.77 QP 137.6700 27.98 -12.09 15.89 30.00 -14.11 QP 169.6800 25.61 -11.20 14.41 30.00 -15.59 QP 780.7800 23.61 -0.32 23.29 37.00 -13.71 QP 858.3800 23.54 0.18 23.72 37.00 -13.28 QP

*: Maximum data x:Over limit !:over margin

File: MW-2018-30036\Data: #58

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Config_1_V

Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

Mode: Config_1

Note: (1st source of memory) 3-4

WCDMA BIV

Polarization: Vertical

Power: AC 120V/60Hz

Distance: 10m

Temperature: 20 ℃

Humidity: 52 %

Radiated Emission

File: MW-2018-30036 Data #57 Date: 2018/3/31 Time: 上午 01:14:20 80.0 dBuV/m Limit1 Margin:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1		54.2500	24.12	-11.05	13.07	30.00	-16.93	QP		
2		137.6700	26.93	-11.69	15.24	30.00	-14.76	QP		
3	*	194.9000	32.69	-13.95	18.74	30.00	-11.26	QP		
4		807.9400	22.80	-0.08	22.72	37.00	-14.28	QP		
5		910.7600	22.68	0.86	23.54	37.00	-13.46	QP		
6		960.2300	22.76	1.20	23.96	37.00	-13.04	QP		

515.00

612.00

709.00

806.00

1000.00 MHz

*:Maximum data x:Over limit !:over margin

File :MW-2018-30036\Data :#57

Page: 1

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Config_2_H

Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

Mode: Config_2

Note: (1st source of memory) 3-4

Data Link (Read)

Polarization: Horizontal From System

Temperature:

20 ℃ Humidity: 52 %

Distance: 10m

Radiated Emission Data #22 Date: 2018/3/30



No.	Mk.	Freq.	Level	Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1		41.6400	24.20	-11,37	12.83	30,00	-17.17	QP		
2		147,3700	24.69	-11.71	12.98	30,00	-17.02	QP		
3		172.5900	24.35	-11.48	12.87	30.00	-17.13	QP		
4	*	480.0020	32.73	-5.54	27.19	37.00	-9.81	QP		
5		838.0100	24.68	0.03	24.71	37.00	-12.29	QP		
6		953.4400	23.38	1.69	25.07	37.00	-11.93	QP		

*: Maximum data x:Over limit !:over margin

File :MW-2018-30036\Data :#22

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Config_2_V

Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

Mode: Config_2

Note: (1st source of memory) 3-4

Data Link (Read)

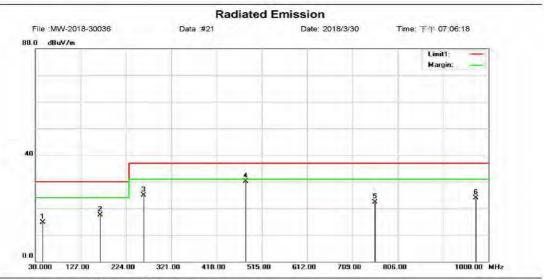
Polarization: Vertical

From System

Distance: 10m

Temperature: 20 ℃

Humidity: 52 %



No.	Mk.	Freq.	Level	Factor	ment	Limit	Over			
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1		45.4800	25.55	-10.84	14.71	30.00	-15.29	QP		
2		168.0200	29.28	-11.68	17.60	30,00	-12.40	QP		
3		261.1180	36.91	-11.91	25.00	37.00	-12.00	QP		
4	*	480.0000	35.84	-5.72	30.12	37.00	-6.88	QP		
5		756.8800	22.57	-0.18	22.39	37.00	-14.61	QP		
6		973.8100	22.61	1.34	23.95	37.00	-13.05	QP		

*: Maximum data x:Over limit !:over margin

File :MW-2018-30036\Data :#21

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Config_3_H

Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

Mode: Config_3

Note: (1st source of memory) 3-4

REC mode (Front)

Polarization: Horizontal

Power: AC 120V/60Hz

Temperature:

20 ℃

1000.00 MHz

Humidity: 52 %

Distance: 10m

Radiated Emission File: MW-2018-30036 Data #32 Date: 2018/3/30 Time: 下午 08:44:48 80.0 dBuV/m Limit1 Margin: 5 X

		Level	Factor	ment	Limit	Over			
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
	51.3400	23.95	-11.21	12.74	30.00	-17.26	QP		
*	137.0800	31.24	-12.11	19.13	30,00	-10.87	QP		
	167.7400	27.30	-11.20	16.10	30.00	-13.90	QP		
	909.7900	23.53	0.82	24.35	37.00	-12.65	QP		
	942.7700	23.47	1.54	25.01	37.00	-11.99	QP		
	974.7800	23.78	1.65	25.43	37.00	-11.57	QP		
	*	51.3400 * 137.0800 167.7400 909.7900 942.7700	51.3400 23.95 * 137.0800 31.24 167.7400 27.30 909.7900 23.53 942.7700 23.47	51.3400 23.95 -11.21 * 137.0800 31.24 -12.11 167.7400 27.30 -11.20 909.7900 23.53 0.82 942.7700 23.47 1.54	51.3400 23.95 -11.21 12.74 * 137.0800 31.24 -12.11 19.13 167.7400 27.30 -11.20 16.10 909.7900 23.53 0.82 24.35 942.7700 23.47 1.54 25.01	51.3400 23.95 -11.21 12.74 30.00 * 137.0800 31.24 -12.11 19.13 30.00 167.7400 27.30 -11.20 16.10 30.00 909.7900 23.53 0.82 24.35 37.00 942.7700 23.47 1.54 25.01 37.00	51.3400 23.95 -11.21 12.74 30.00 -17.26 * 137.0800 31.24 -12.11 19.13 30.00 -10.87 167.7400 27.30 -11.20 16.10 30.00 -13.90 909.7900 23.53 0.82 24.35 37.00 -12.65 942.7700 23.47 1.54 25.01 37.00 -11.99	51.3400 23.95 -11.21 12.74 30.00 -17.26 QP * 137.0800 31.24 -12.11 19.13 30.00 -10.87 QP 167.7400 27.30 -11.20 16.10 30.00 -13.90 QP 909.7900 23.53 0.82 24.35 37.00 -12.65 QP 942.7700 23.47 1.54 25.01 37.00 -11.99 QP	51.3400 23.95 -11.21 12.74 30.00 -17.26 QP * 137.0800 31.24 -12.11 19.13 30.00 -10.87 QP 167.7400 27.30 -11.20 16.10 30.00 -13.90 QP 909.7900 23.53 0.82 24.35 37.00 -12.65 QP 942.7700 23.47 1.54 25.01 37.00 -11.99 QP

515.00

612.00

709.00

806.00

*:Maximum data x:Over limit !:over margin

File: MW-2018-30036\Data: #32

Page: 1

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Config_3_V

Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

Mode: Config_3

Note: (1st source of memory) 3-4

REC mode (Front)

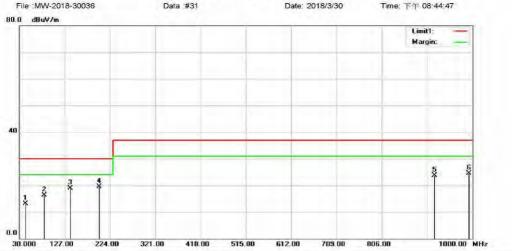
Polarization: Vertical Power: AC 120V/60Hz

Distance: 10m

Temperature: 20 ℃

Humidity: 52 %

Radiated Emission File: MW-2018-30036 Data #31



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1		43.5800	24.04	-11.00	13.04	30.00	-16.96	QP		
2		82.5600	32.84	-16.45	16.39	30.00	-13.61	QP		
3		137,7000	30.60	-11.68	18.92	30.00	-11.08	QP		
4	*	201.1200	33.87	-14.31	19.56	30.00	-10.44	QP		
5		919.4900	22.70	0.92	23.62	37.00	-13.38	QP		
6		993.2100	23.04	1.54	24.58	37.00	-12.42	QP		

*:Maximum data x:Over limit !:over margin

File: MW-2018-30036\Data:#31

Page: 1

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Above 1GHz

1GMz-18GMz Config 1 H

Site SGS 966 Chamber A

Limit: FCC Class B 3M Radiation(1G-40G)(Pea

Mode: Config 1 Note: WCDMA B2 Polarization: Horizontal

Power: AC 120V/60Hz

Distance:

Temperature: 21 °C Humidity: 65 %

Radiated Emission File:30036 Date: 2018/3/29 Time: 下午 06:33:36 Data :#6 FCE Class B 3M Radiation(1G-40G)(Pea 0.0 1000 000 2700 00 9500.00 11200.00 12900.00 14600.00 18000.00 MH2

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		3601.000	58.19	-11.18	47.01	74.00	-26.99	peak	
2		3975.000	58.12	-9.61	48.51	74.00	-25.49	peak	
3		4247.000	58.41	-9.44	48.97	74.00	-25.03	peak	
4		4808.000	58.83	-8.05	50.78	74.00	-23.22	peak	
5		5318.000	58.51	-6.95	51.56	74.00	-22.44	peak	
6		5318.000	45.01	-6.95	38.06	54.00	-15.94	AVG	
7		5794.000	57,93	-6.09	51.84	74.00	-22.16	peak	
8	*	5794.000	44.38	-6.09	38.29	54.00	-15.71	AVG	

*: Maximum data x:Over limit l:over margin

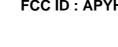
File :30036\Data :#6

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1GMz-18GMz Config_1_V

Site SGS 966 Chamber A

Limit: FCC Class B 3M Radiation(1G-40G)(Pea

Mode: Config 1 Note: WCDMA B2 Polarization: Vertical

AC 120V/60Hz

Temperature: 21 °C

Humidity: 65 %

Distance:

Radiated Emission File:30036 Data :#5 Date: 2018/3/29 Time: 下午 06:32:29 100.0 dBuV/m 0.0 18000.00 MHz

No.	Mk.	Freq.	Reading	Correct	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		3550.000	59.56	-11.39	48.17	74.00	-25.83	peak	
2		3839,000	59.78	-10.18	49.60	74.00	-24.40	peak	
3		4638,000	57,83	-8.79	49.04	74.00	-24.96	peak	
4		4995.000	59.00	-7.22	51.78	74.00	-22.22	peak	
5		4995.000	45.27	-7.22	38.05	54.00	-15.95	AVG	
6		5318.000	59.04	-6.95	52.09	74.00	-21.91	peak	
7	*	5318.000	45.39	-6.95	38.44	54.00	-15.56	AVG	
8		5794.000	58.33	-6.09	52.24	74.00	-21.76	peak	
9		5794.000	44.46	-6.09	38.37	54.00	-15.63	AVG	

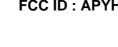
*:Maximum data x:Over limit l:over margin

File :30036\Data :#5

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1GMz-18GMz Config_2_H

Site SGS 966 Chamber A

Limit: FCC Class B 3M Radiation(1G-40G)(Pea

Mode: Config 2 Note: Data link(Write)

Polarization: Horizontal AC 120V/60Hz

Temperature: 21 °C

Humidity: 65 %

Distance:

Radiated Emission File:30036 Date: 2018/3/29 Time: 下午 08:30:01 100.0 dBuV/m 0.0 18000.00 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		2904.000	58.37	-13.07	45.30	74.00	-28.70	peak	
2		3584.000	58.94	-11.25	47.69	74.00	-26.31	peak	
3		4230.000	58.09	-9.44	48.65	74.00	-25.35	peak	
4		4859.000	58.32	-7.83	50.49	74.00	-23.51	peak	
5		5386.000	58.50	-6.89	51.61	74.00	-22.39	peak	
6		5386.000	44.98	-6.89	38.09	54.00	-15.91	AVG	
7		5794.000	58.12	-6.09	52.03	74.00	-21.97	peak	
8	*	5794.000	44.33	-6.09	38.24	54.00	-15.76	AVG	

*:Maximum data x:Over limit I:over margin

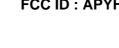
File .30036\Data :#24

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Report No.: MH/2018/30036 FCC ID: APYHRO00260

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1GMz-18GMz Config_2_V

Site SGS 966 Chamber A

Limit: FCC Class B 3M Radiation(1G-40G)(Pea

Mode: Config 2

Note: Data link(Write)

Polarization: Vertical

Power: AC 120V/60Hz

Temperature:

Humidity: 65 %

21 °C

Distance:

Radiated Emission File:30036 Date: 2018/3/29 Time: 下午 08:29:01 100.0 dBuV/n 0.0 18000.00 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		3142.000	57.84	-12.53	45.31	74.00	-28.69	peak	
2		3618.000	58,58	-11.10	47.48	74.00	-26.52	peak	
3		4264.000	58.14	-9,45	48.69	74.00	-25.31	peak	
4		4774.000	58.77	-8.21	50.56	74.00	-23.44	peak	
5		5301.000	58.43	-6.96	51.47	74.00	-22.53	peak	
6		5301.000	44.82	-6.96	37.86	54.00	-16.14	AVG	
7		6066.000	56.89	-5.15	51.74	74.00	-22.26	peak	
8	*	6066.000	43.57	-5.15	38.42	54.00	-15.58	AVG	

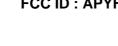
*:Maximum data x:Over limit I:over margin

File .30036\Data :#23

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1GMz-18GMz Config_3_H

Site SGS 966 Chamber A

Limit: FCC Class B 3M Radiation(1G-40G)(Pea

Mode: Config 3 Note: REC Mode Polarization: Horizontal

AC 120V/60Hz

Distance:

Temperature: Humidity: 65 %

21 °C

18000.00 MHz

Radiated Emission File:30036 Data :#8 Date: 2018/3/29 Time: 下午 07:16:41 100.0 dBuV/m 0.0

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		4094.000	58.39	-9.49	48.90	74.00	-25.10	peak	
2		4621,000	57,49	-8.88	48.61	74.00	-25.39	peak	
3		4910.000	58.38	-7.60	50.78	74.00	-23.22	peak	
4		5318.000	59.35	-6.95	52.40	74.00	-21.60	peak	
5		5318.000	45.23	-6.95	38.28	54.00	-15.72	AVG	
6		5692.000	57.95	-6.34	51.61	74.00	-22.39	peak	
7		5692.000	44.79	-6.34	38.45	54.00	-15.55	AVG	
8		6083.000	56.92	-5.04	51.88	74.00	-22.12	peak	
9	*	6083.000	43.65	-5.04	38.61	54.00	-15.39	AVG	

*:Maximum data x:Over limit l:over margin

File:30036\Data:#8

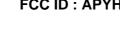
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1GMz-18GMz Config_3_V

Site SGS 966 Chamber A

Limit: FCC Class B 3M Radiation(1G-40G)(Pea

Mode: Config 3 Note: REC Mode Polarization: Vertical

Power: AC 120V/60Hz

Temperature: 21 °C

Humidity: 65 %

Distance:

Radiated Emission File:30036 Data :#7 Date: 2018/3/29 Time: 下午 07:15:46 100.0 dBuV/m 0.0 18000.00 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		4247.000	58.28	-9.44	48.84	74.00	-25.16	peak	
2		4774.000	58.34	-8.21	50.13	74.00	-23.87	peak	
3		4978,000	58.15	-7.29	50.86	74.00	-23.14	peak	
4		5335.000	58.81	-6.93	51.88	74.00	-22.12	peak	
5		5335.000	44.79	-6.93	37.86	54.00	-16.14	AVG	
6		5658.000	58.04	-6,42	51.62	74.00	-22.38	peak	
7		5658.000	44.55	-6.42	38.13	54.00	-15.87	AVG	
8		6117.000	58.23	-4.80	53.43	74.00	-20.57	peak	
9	*	6117.000	43.94	-4.80	39.14	54.00	-14.86	AVG	

*:Maximum data x:Over limit l:over margin

File :30036\Data :#7

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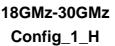
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Site SGS 966 Chamber A

Limit: FCC Class B 1M Radiation(1G-40G)(Pea

Mode: Config 1 Note: WCDMA B2 Polarization: Horizontal Temperature:

21 °C

Power: AC 120V/60Hz

Humidity: 65 %

Distance:

Radiated Emission File:30036 Data :#14 Date: 2018/3/29 Time: 下午 08:14:35 100.0 dBuV/m



No.	lo. Mk.	Freq.	Level	Factor	ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		18996.000	54.78	-1.60	53.18	83.50	-30.32	peak	
2		20772,000	54.03	-1.02	53.01	83.50	-30.49	peak	
3	B	21576.000	53.79	0.58	54.37	83.50	-29.13	peak	
4		21960.000	52.87	1.51	54.38	83.50	-29.12	peak	
5	*	24936.000	54.01	2.57	56.58	83.50	-26.92	peak	
6		27864.000	53.44	1.98	55.42	83.50	-28.08	peak	

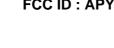
*:Maximum data x:Over limit I:over margin

File .30036\Data :#14

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18GMz-30GMz Config_1_V

Site SGS 966 Chamber A

Limit: FCC Class B 1M Radiation(1G-40G)(Pea

Mode: Config 1 Note: WCDMA B2 Polarization: Vertical

Power: AC 120V/60Hz

Temperature: 21 °C

Humidity: 65 %

Distance:

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		19668.000	54.01	-1.47	52.54	83.50	-30.96	peak	
2	3	21768.000	53.09	1.04	54.13	83.50	-29.37	peak	
3	3	21996.000	53.12	1.59	54.71	83.50	-28.79	peak	
4	*	24876.000	53.72	2.55	56.27	83.50	-27.23	peak	
5		26076.000	52.54	2.23	54.77	83.50	-28.73	peak	
6		27864.000	52.54	1.98	54.52	83.50	-28.98	peak	

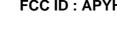
*:Maximum data x:Over limit I:over margin

File .30036\Data :#13

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18GMz-30GMz Config_2_H

Site SGS 966 Chamber A

Polarization: Horizontal Temperature: 21 °C

Limit: FCC Class B 1M Radiation(1G-40G)(Pea

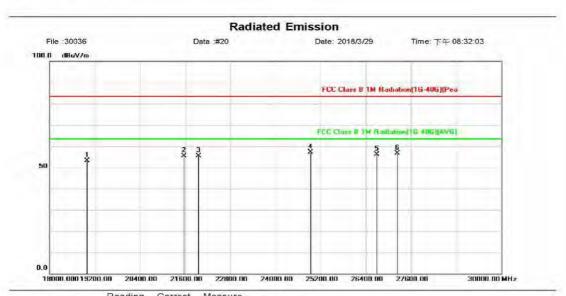
AC 120V/60Hz

Humidity: 65 %

Mode: Config 2

Distance:

Note: Data link(Write)



No.	Mk.	Freq.	Level	Factor	ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		18996.000	54.78	-1.60	53.18	83.50	-30.32	peak	
2		21576.000	54.79	0.58	55.37	83.50	-28.13	peak	
3		21960.000	53.87	1.51	55.38	83.50	-28.12	peak	
4	*	24936.000	54.51	2.57	57.08	83.50	-26.42	peak	
5		26688.000	53.55	2.60	56.15	83.50	-27.35	peak	
6		27240.000	54.72	2.01	56.73	83.50	-26.77	peak	

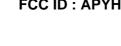
*:Maximum data x:Over limit I:over margin

File .30036\Data :#20

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18GMz-30GMz Config_2_V

Distance:

Site SGS 966 Chamber A

Polarization: Vertical Temperature: 21 °C

30000.00 MHz

Limit: FCC Class B 1M Radiation(1G-40G)(Pea

Power: AC 120V/60Hz

Humidity: 65 %

Mode: Config 2 Note: Data link(Write)

Radiated Emission File:30036 Date: 2018/3/29 Time: 下午 08:30:14 100.0 dBuV/m FCC Class B 1M Radiation[16-406][Pea 0.0

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		18060.000	52.99	-1.59	51.40	83.50	-32.10	peak	
2		19668.000	53.51	-1.47	52.04	83.50	-31.46	peak	
3	3	21924.000	52.69	1.42	54.11	83.50	-29.39	peak	
4	1	24924.000	52.90	2.57	55.47	83.50	-28.03	peak	
5		27924.000	52.46	1.98	54.44	83.50	-29.06	peak	
6	*	29772.000	54.01	1.98	55.99	83.50	-27.51	peak	

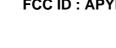
*:Maximum data x:Over limit !:over margin

File .30036\Data :#19

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18GMz-30GMz Config_3_H

Site SGS 966 Chamber A

Limit: FCC Class B 1M Radiation(1G-40G)(Pea

Mode: Config 3 Note: REC Mode Polarization: Horizontal

AC 120V/60Hz

Temperature: 21 °C

Humidity: 65 %

Distance:

Radiated Emission File:30036 Date: 2018/3/29 Time: 下午 08:22:57 100.0 dBuV/m FCC Class B 1M Radiation[16-406][Pea



No.	Mk.	Freq.	Level	Factor	ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		18996.000	54.78	-1.60	53.18	83.50	-30.32	peak	
2		20772.000	54.03	-1.02	53.01	83.50	-30.49	peak	
3		21576.000	53.79	0.58	54.37	83.50	-29.13	peak	
4		22332.000	53.21	1.60	54.81	83.50	-28.69	peak	
5		24936.000	53.51	2.57	56.08	83.50	-27.42	peak	
6	*	27864.000	54.44	1.98	56.42	83.50	-27.08	peak	

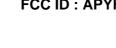
*:Maximum data x:Over limit I:over margin

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18GMz-30GMz Config_3_V

Distance:

Site SGS 966 Chamber A

Limit: FCC Class B 1M Radiation(1G-40G)(Pea

Mode: Config 3 Note: REC Mode Polarization: Vertical Power: AC 120V/60Hz

Temperature: 21 °C

Humidity: 65 %

Radiated Emission File:30036 Date: 2018/3/29 Time: 下午 08:21:03 100.0 dBuV/m FCC Class B 1M Radiation[16-406][Pea



No.	No. Mk	Freq.	Level	Factor	ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		19668.000	54.51	-1.47	53.04	83.50	-30.46	peak	
2		21924.000	54.19	1.42	55.61	83.50	-27.89	peak	
3	*	24924.000	54,40	2.57	56.97	83.50	-26.53	peak	
4		26076.000	52.54	2.23	54.77	83.50	-28.73	peak	
5		28380.000	53.07	1.85	54.92	83.50	-28.58	peak	
6		29772.000	53.51	1.98	55.49	83.50	-28.01	peak	

*:Maximum data x:Over limit l:over margin

File .30036\Data :#15

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