

FCC ID: APYHRO00255 Report No.: E1/2017/90088

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FCC CERTIFICATION REPORT

Test Report No. : E1/2017/90088

: SHARP CORPORATION, IoT Communication BU **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 : Mobile phone

Standards : FCC Part 15:2017, Subpart B, Class B

FCC Designation Numbers: 916890 / TW1087

Date of Receipt: Ser. 15, 2017

Date of Test : Ser. 15 ~ Oct. 12, 2017

Date of Issue : Nov. 01, 2017

PASS Test Result:

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.

Tested By:

Ivan Hsieh (Engineer)

Nov. 01, 2017

Approved By

Date

Nov. 01, 2017

Eddy Cheng (Asst. Supervisor)

TAF

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Revision History

Report Number	Revision	Description	Issue Date
E1/2017/90088	Rev.00	Initial creation of document	Nov. 01, 2017

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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 : Mobile phone

1.3 Details of EUT

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

Worst case : Config 4 : CE worst case

> Below RE worst case : Config 2

> Above RE worst case : Config 1

Highest operate description : 1094.4 MHz

Adapter : Model No.: 0401PWA HS-SIA

Supplier: au

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SK22	FCC 15B			
3N22	Config 1	Config2	Config 3	Config 4
Applicable standard		F(CC 15B	
Accessories	! ' '	EUT +USB Cable(to PC)	EUT + AC Adaptor(au 0401PWA HS-SIA)	EUT + AC Adaptor(au 0401PWA HS-SIA) + Cradle +USB Cable +EARPHONE
Main function	Speech	Data Link+Camera	Audio	Cradle Charger
Additional function		BT+WiF	TI +GPS+NFC	
Description				
radiated emission	GSM 850/1900 WCDMA B1 LTE B1	Data Read/Write + Camera Rec	MP3	Cradle Charger + MP3
conducted emission (DC Power)	NA	NA	NA	NA
conducted emission (AC Power)	GSM 850/1900 WCDMA B1 LTE B1	Data Read/Write + Camera Rec	MP3	Cradle Charger + MP3

1.4 Operation Procedure

Config 1

- 1. Let EUT install the SIM Card & SD Card.
- 2. Let USB Port of EUT connect to the Adapter.
- 3. Set the BT mouse to pair with EUT.
- 4. Set WiFi to obtain IP Address and execute Ping IP Address.
- 5. Turned on the GPS function & NFC function.
- 6. Set up the base station and test GSM / WCDMA / LTE connection.
- 7. Started the test.

Config 2

- 1. Let EUT install the SIM Card & SD Card.
- 2. Let USB Port of EUT connect to the PC and execute Data R/W.
- 3. Set the BT mouse to pair with EUT.
- 4. Set WiFi to obtain IP Address and execute Ping IP Address.
- 5. Turned on the GPS function & NFC function.
- 6. Turned on the camera function, selected Camera and pressed REC.
- 7. Started the test.

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Config 3

- 1. Let EUT install the SIM Card & SD Card.
- 2. Let USB Port of EUT connect to the Adapter.
- 3. Set the BT mouse to pair with EUT.
- 4. Set WiFi to obtain IP Address and execute Ping IP Address.
- 5. Turned on the GPS function & NFC function.
- 6. Played the MP3 music.
- 7. Started the test.

Config 4

- 1. Let EUT install the SIM Card & SD Card.
- 2. Let USB Port of EUT connect to the Earphone.
- 3. Set the BT mouse to pair with EUT.
- 4. Set WiFi to obtain IP Address and execute Ping IP Address.
- 5. Turned on the GPS function & NFC function.
- 6. Played the MP3 music.
- 7. Let USB Port of Cradle connect to the Adapter.
- 8. Put the EUT into Cradle to charge.
- 9. Started the test.

1.5 Description of Support Units

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
Micro SD	Transcend	Micro SDHC (Class4)	N/A
BT Mouse	Logiteck	M555b	N/A
Radio Communication Analyzer	R&S	CMU200	102189
Radio Communication Analyzer	R&S	CMU500	1201.002K50-152303-Zr
AP	BUFFALO	WZR-HP-G300NH2	44066221202559[[G]]
GPS Signal Generator	Spectracom	GSG53 GNSS4	200218
Mouse	DELL	MS111-T	CN-OKW2YH-71616-345-OL7T
Printer	HP	VCVRA-1004	CN33K19J3F
Notebook	DELL	P37G	H55Z0Z1

Support Equipment Used in Tested Cable

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

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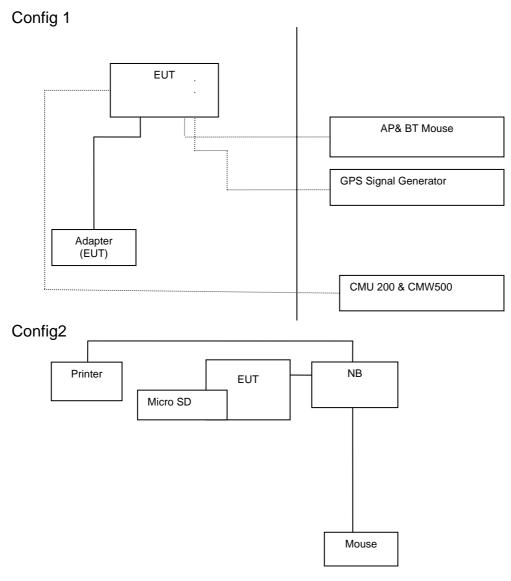
1.6 Modification List

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

1.7 Accessories Cable List

Cable Type	Core	Length	Shielding/Non-shielding
USB Cable	N/A	1M	Shielding
USB to Audio Cable	N/A	0.12M	Shielding
Earphone	N/A	1.25M	Non-shielding

1.8 Test Set-Up Configuration



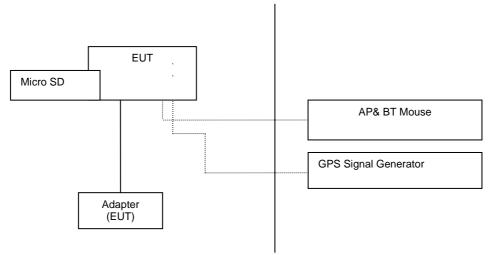
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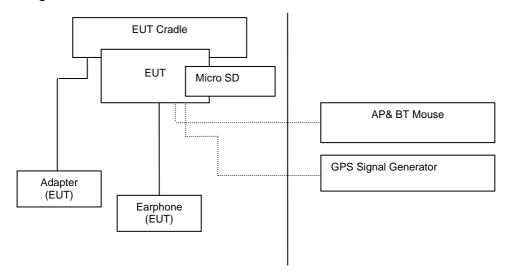
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Config 4



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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(dB)					
500 Day 45 O Lyant D	Conducted Emission	PASS	Line	0.6020	-13.75 (QP)
FCC Part 15 Subpart B		PASS	Neutral	0.8020	-18.87 (QP)
Class B	Radiated Emission	PASS	Hor.	221.2900	-7.80 (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

5th harmonic of the highest frequency or Above 1000

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

- Bototon unotion: Quadr Touk				
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 (dB	uV/m) (at 3m)	Class B (dBu	uV/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	suV/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

SC	GS Conducted_Emi	ssion HWAYA Conducte	d Room No.A_E	MC	
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration	Calibration
EQUI WENT THE	Manaradard	Wieder Harriser	Conai Hamboi	Date	Due
EMI Test Receiver	R&S	ESCI 3	101311	2017/6/23	2018/6/22
Coaxial Cables	EMC Instruments	EMCRG58-BM-BM-	160812	2017/8/30	2018/8/29
Coaxiai Cables	Corp	3000	100012	2017/6/30	2010/0/29
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	NSLK8128-300	2017/9/4	2018/9/3
Universal Digital Radio	R&S	CMU 200	122400	2016/11/9	2017/11/8
Communication Tester	Ras	CIVIO 200	122498	2016/11/9	2017/11/6
Wideband Radio	R&S	CMW 500	152303	2017/2/23	2018/2/22
Communication Tester	Ras	CIVIVV 500	152303	2017/2/23	2010/2/22
Test S/W	Farad	EZ-EMC	Ver. SGS-	N.C.R.	N.C.R.
1621.2/11	Faiau	EZ-EIVIC	03A2	N.C.K.	N.C.R.

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Measurement Uncertainty of Conducted Emission

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

2.4.2 Operating Environment

Temperature: 25 degree C Humidity: 58 %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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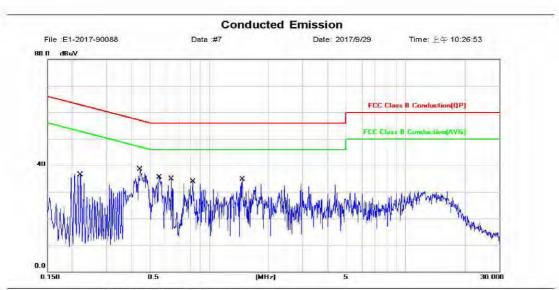
2.4.4 Measurement Data:

Config_1_L

25 °C Phase: Temperature: Site: Conduction Room L1 AC 120V/60Hz Humidity: 58 % Limit: FCC Class B Conduction(QP) Power:

Mode: Config 1

Note:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2220	32.00	0.03	32.03	62.74	-30.71	QP	
2	9	0.2220	21.30	0.03	21.33	52.74	-31.41	AVG	
3	*	0.4460	31.50	0.04	31.54	56.95	-25.41	QP	
4		0.4460	20.20	0.04	20.24	46.95	-26.71	AVG	
5		0.5580	28.33	0.05	28.38	56.00	-27.62	QP	
6		0,5580	18.76	0.05	18,81	46.00	-27.19	AVG	
7		0.6420	29.88	0.05	29.93	56.00	-26.07	QP	
8		0.6420	19.34	0.05	19.39	46.00	-26,61	AVG	
9		0.8300	24.99	0.06	25.05	56.00	-30.95	QP	
10		0.8300	14.56	0.06	14.62	46.00	-31.38	AVG	
11		1.4780	23.59	0.15	23.74	56.00	-32.26	QP	
12		1.4780	15.12	0.15	15.27	46.00	-30,73	AVG	

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

File :E1-2017-90088\Data :#7

Page: 1

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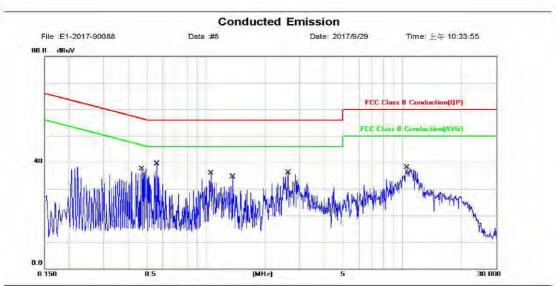


Config_1_N

Temperature: 25 °C Site: Conduction Room Phase: Limit: FCC Class B Conduction(QP) AC 120V/60Hz Humidity: 58 % Power:

Mode: Config 1

Note:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.4700	29.39	0.12	29.51	56.51	-27.00	QP	
2		0.4700	17.19	0.12	17.31	46.51	-29.20	AVG	
3	*	0.5620	34.33	0.12	34.45	56.00	-21.55	QP	
4		0.5620	21.24	0.12	21.36	46.00	-24.64	AVG	
5		1.0580	28.51	0.14	28.65	56.00	-27.35	QP	
6		1.0580	16.45	0.14	16.59	46.00	-29.41	AVG	
7		1,3620	26.73	0.18	26.91	56.00	-29.09	QP	
8		1.3620	15.82	0.18	16.00	46.00	-30.00	AVG	
9		2.6140	30.71	0.26	30.97	56.00	-25.03	QP	
10		2.6140	18.08	0.26	18.34	46.00	-27.66	AVG	
11		10.5380	32.89	0.49	33.38	60.00	-26.62	QP	
12		10.5380	20.18	0.49	20.67	50.00	-29.33	AVG	

*:Maximum data x:Over limit

File :E1-2017-90088\Data :#8

Page: 1

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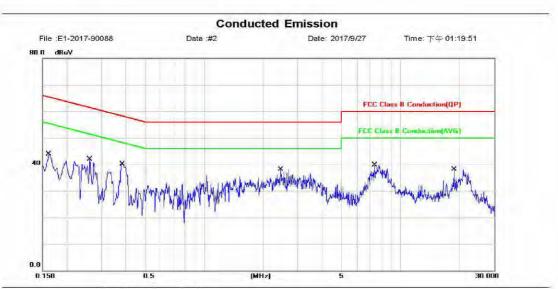
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Config_2_L

Temperature: 25 °C Site: Conduction Room Phase: L1 Limit: FCC Class B Conduction(QP) From System Humidity: 58 % Power:

Mode: Config 2 Note: AC 120V/60Hz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1620	35.60	0.12	35.72	65.36	-29.64	QP	
2		0.1620	22.21	0.12	22.33	55.36	-33.03	AVG	
3		0.2620	31.92	0.11	32.03	61.37	-29.34	QP	
4		0.2620	23.79	0.11	23.90	51.37	-27.47	AVG	
5		0.3820	36.40	0.12	36.52	58.24	-21.72	QP	
6	*	0.3820	29.61	0.12	29.73	48.24	-18.51	AVG	
7		2.4540	29.23	0.25	29.48	56.00	-26.52	QP	
8		2.4540	19.36	0.25	19.61	46.00	-26.39	AVG	
9		7.3900	29.85	0.38	30.23	60.00	-29.77	QP	
10		7.3900	17.92	0.38	18.30	50.00	-31.70	AVG	
11		18.7860	26.01	0.71	26.72	60.00	-33.28	QP	
12		18.7860	18.33	0.71	19.04	50.00	-30.96	AVG	

*:Maximum data x:Over limit

File :E1-2017-90088\Data :#2

Page: 1

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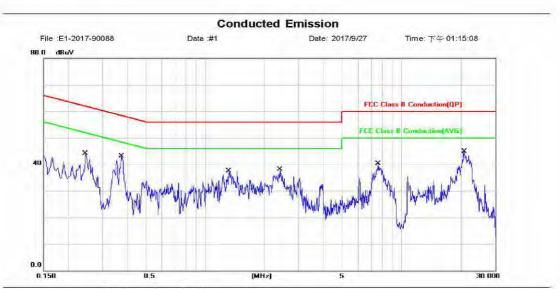
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Config_2_N

Temperature: 25 °C Site: Conduction Room Phase: Limit: FCC Class B Conduction(QP) From System Humidity: 58 % Power:

Mode: Config 2 Note: AC 120V/60Hz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2460	38.19	0.11	38.30	61.89	-23.59	QP	
2		0.2460	25.19	0.11	25.30	51.89	-26.59	AVG	
3		0.3740	35.00	0.12	35.12	58.41	-23.29	QP	
4		0.3740	23.90	0.12	24.02	48.41	-24.39	AVG	
5	4 - 1	1.3180	26,90	0.17	27.07	56.00	-28.93	QP	
6		1.3180	17.84	0.17	18.01	46.00	-27.99	AVG	
7		2.4020	30.93	0.25	31.18	56.00	-24.82	QP	
8		2.4020	21.42	0.25	21.67	46.00	-24.33	AVG	
9		7.6300	33.80	0.38	34.18	60.00	-25.82	QP	
10		7.6300	27.60	0.38	27.98	50.00	-22.02	AVG	
11		20.9220	37.50	0.76	38.26	60.00	-21.74	QP	
12	*	20.9220	29.00	0.76	29.76	50.00	-20,24	AVG	

*:Maximum data x:Over limit

File :E1-2017-90088\Data :#1

Page: 1

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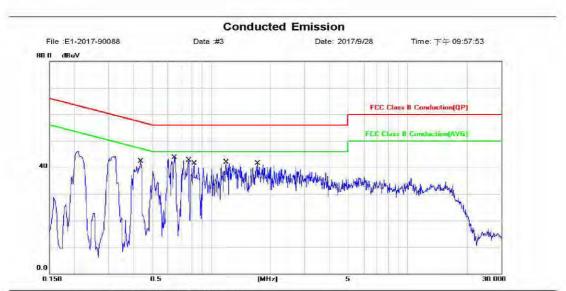


Config_3_L

Temperature: 25 °C Site: Conduction Room Phase: L1 Limit: FCC Class B Conduction(QP) AC 120V/60Hz Humidity: 58 % Power:

Mode: Config 3

Note:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.4380	39.20	0.04	39.24	57.10	-17.86	QP	
2		0.4380	26.00	0.04	26.04	47.10	-21.06	AVG	
3	*	0.6540	38.80	0.05	38.85	56.00	-17.15	QP	
4		0.6540	25.20	0.05	25.25	46.00	-20.75	AVG	
5		0.7700	37.60	0.06	37.66	56.00	-18.34	QP	
6		0.7700	17.80	0.06	17.86	46.00	-28,14	AVG	
7		0.8180	38.50	0.06	38.56	56.00	-17.44	QP	
8		0.8180	22.00	0.06	22.06	46.00	-23.94	AVG	
9		1.1940	32.90	0.10	33.00	56.00	-23.00	QP	
10		1,1940	18.90	0.10	19.00	46.00	-27.00	AVG	
11		1.7260	32.40	0.19	32.59	56.00	-23.41	QP	
12		1.7260	18.20	0.19	18.39	46.00	-27.61	AVG	
_									

*:Maximum data x:Over limit

File :E1-2017-90088\Data :#3

Page: 1

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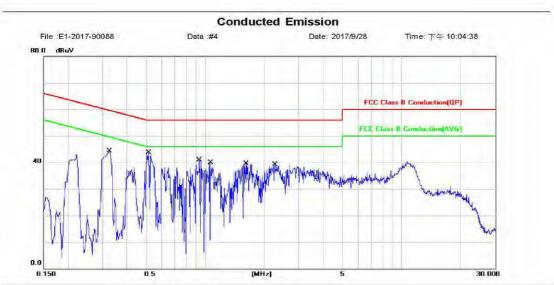


Config_3_N

Temperature: 25 °C Site: Conduction Room Phase: Limit: FCC Class B Conduction(QP) AC 120V/60Hz Humidity: 58 % Power:

Mode: Config 3

Note:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.3260	41.40	0.12	41.52	59.55	-18.03	QP	
2		0.3260	30.60	0.12	30.72	49.55	-18.83	AVG	
3	*	0.5140	40.80	0.12	40.92	56.00	-15.08	QP	
4		0.5140	27.80	0.12	27.92	46.00	-18.08	AVG	
5		0.9340	36.40	0.13	36.53	56.00	-19.47	QP	
6		0,9340	19.00	0.13	19.13	46.00	-26.87	AVG	
7		1.0700	35.50	0.14	35.64	56.00	-20.36	QP	
8		1.0700	17.60	0.14	17.74	46.00	-28.26	AVG	
9		1.6180	34.50	0.20	34.70	56.00	-21.30	QP	
10		1.6180	19.10	0.20	19.30	46.00	-26.70	AVG	
11		2.2660	33.70	0.25	33.95	56.00	-22.05	QP	
12		2.2660	18.30	0.25	18.55	46.00	-27.45	AVG	

*:Maximum data x:Over limit

File :E1-2017-90088\Data :#4

Page: 1

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Config_4_L

Temperature: 25 °C Site: Conduction Room Phase: L1 Limit: FCC Class B Conduction(QP)

Mode: Config 4

Note:

AC 120V/60Hz Humidity: 58 % Power:

	Conduct	ted Emission	
File :E1-2017-90088	Data :#5	Date: 2017/9/28	Time: 下午 11:52:19
		FCC C	lass 8 Conduction(QP)
×		FCE CL	ni B Conduction(AVS)
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AT MM M M	VIVIII		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2140	46.00	0.03	46.03	63.05	-17.02	QP	
2		0.2140	37.90	0.03	37.93	53.05	-15.12	AVG	
3		0.5420	38.30	0.05	38.35	56.00	-17.65	QP	
4		0.5420	24.70	0.05	24.75	46.00	-21.25	AVG	
5	-kn	0,6020	42.20	0.05	42.25	56.00	-13.75	QP	
6		0,6020	26.70	0.05	26.75	46.00	-19.25	AVG	
7		0.7460	40.80	0.06	40.86	56.00	-15.14	QP	
8		0.7460	25.10	0.06	25.16	46.00	-20.84	AVG	
9		1.0900	38.90	0.09	38.99	56.00	-17.01	QP	
10		1.0900	23.20	0.09	23.29	46.00	-22.71	AVG	
11		1.6300	38.30	0.17	38.47	56.00	-17.53	QP	
12	-	1.6300	24.00	0.17	24.17	46.00	-21.83	AVG	
_									

*:Maximum data x:Over limit

File :E1-2017-90088\Data :#5

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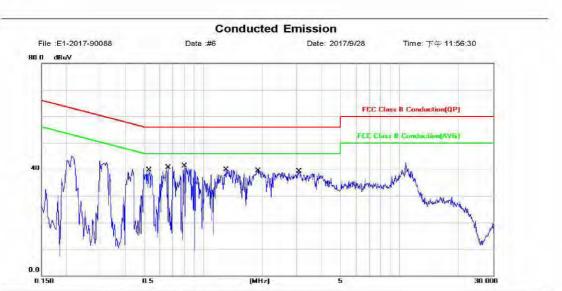


Config_4_N

Temperature: 25 °C Site: Conduction Room Phase: Limit: FCC Class B Conduction(QP) AC 120V/60Hz Humidity: 58 % Power:

Mode: Config 4

Note:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.5300	36.90	0.12	37.02	56.00	-18.98	QP	
2		0.5300	23.60	0.12	23.72	46.00	-22.28	AVG	
3		0.6620	34.40	0.12	34.52	56.00	-21.48	QP	
4		0.6620	17.40	0.12	17.52	46.00	-28.48	AVG	
5	rike .	0.8020	37.00	0.13	37.13	56.00	-18.87	QP	
6		0.8020	19.10	0.13	19.23	46.00	-26.77	AVG	
7		1,3060	35.30	0.17	35.47	56.00	-20.53	QP	
8		1.3060	18.80	0.17	18.97	46.00	-27.03	AVG	
9		1.9060	34.40	0.24	34.64	56.00	-21.36	QP	
10		1,9060	17.90	0.24	18,14	46.00	-27.86	AVG	
11	7	3.0860	34.40	0.26	34.66	56.00	-21.34	QP	
12		3.0860	20.20	0.26	20.46	46.00	-25.54	AVG	

*:Maximum data x:Over limit

File :E1-2017-90088\Data :#6

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2.5 Test of Radiated Emission

2.5.1 Test Equipments

Below 1GHz

	SGS Radiated_B	selow_1GHz HWAYA	10m_EMC		
EQUIPMENT TYPE	Manufacturer	Model Number	Serial	Calibration	Calibration
EQUIPMENT TYPE	Manufacturer	Model Number	Number	Date	Due
EMI Test Receiver	R&S	ESCI 7	100950	2017/12/7	2018/12/6
EMI Test Receiver	R&S	ESCI 3	101343	2016/12/21	2017/12/20
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	2017/3/31	2018/3/30
Pre Amplifier	EMC Instruments Corp.	EMC330	980179	2017/3/31	2018/3/30
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	122498	2016/11/9	2017/11/8
Wideband Radio Communication Tester	R&S	CMW 500	152303	2017/2/23	2018/2/22
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	2016/12/31	2017/12/31
Test S/W	Farad	EZ-EMC	Ver. SGS- 03A2	N.C.R.	N.C.R.

SGS Taiwan LTD. Electronics & Communication Laboratory

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

Measurement Uncertainty of Radiated Emission

Expanded uncertainty of radiated emission is 4.09 dB. (30MHz ~ 1000MHz)

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Above 1GHz

	SGS Radiated_	Above_1GHz HWAY/	A 966A_EMC		
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	R&S	FSV 40	101419	2017/3/1	2018/2/28
EMI Test Receiver	R&S	ESR 7	101459	2017/2/17	2018/2/16
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA9120D67 3	2016/10/14	2017/10/13
Pre Amplifier	EMC Instruments Corp.	EMC012645B	980216	2017/4/25	2018/4/24
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	122498	2016/11/9	2017/11/8
Wideband Radio Communication Tester	R&S	CMW 500	152303	2017/2/23	2018/2/22
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	2017/1/12	2018/1/11
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)

2.5.2 Operating Environment

Temperature: 25 degree C Humidity: 65 %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: LTE B1 Link Polarization: Horizontal AC 120V/60Hz

Temperature: 25 ℃

Humidity: 65 %

Power: Distance:

Radiated Emission



No.	. Mk.	Mk. Freq.		Freq.	Freq.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment				
1		51.2000	26.49	-11.19	15.30	30.00	-14.70	QP					
2		180.1000	27.81	-12.31	15.50	30.00	-14.50	QP					
3		795.5300	25.93	-0.23	25.70	37.00	-11.30	QP					
4		853.7700	25.26	0.14	25.40	37.00	-11.60	QP					
5		913.9900	25.19	0.91	26.10	37.00	-10.90	QP					
6	*	966.2900	25.23	1.67	26.90	37.00	-10.10	QP					

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

File :90088\Data :#16

Page: 1

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Config_1_V

Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

Mode: Config_1 Note: LTE B1 Link

0.0

127.00

Polarization: Vertical

Power: AC 120V/60Hz

Distance:

Temperature: 25 ℃

1000.00 MHz

Humidity: 65 %

Radiated Emission File :90088 Data :#15 Date: 2017/9/27

418.00



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		140.0500	29.80	-11.50	18.30	30.00	-11.70	QP	
2	*	180.0900	33.01	-12.51	20.50	30.00	-9.50	QP	
3		280.1400	32.90	-10.70	22,20	37.00	-14.80	QP	
4	111	872.7900	23.84	0.36	24.20	37.00	-12.80	QP	
5		916.8400	23.80	0.90	24.70	37.00	-12.30	QP	
6		980.0100	23.90	1.40	25.30	37.00	-11.70	QP	

515.00

612.00

709.00

806.00

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

File :90088\Data :#15

Page: 1

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Config_2_H

Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

Mode: Config_2 Note: SD Card Read Polarization: Horizontal

Power: From System

Distance:

Temperature: 25 ℃

Humidity: 65 %



No.	Mk.	Freq.	Level	Factor	ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		65.1500	33.98	-12.88	21.10	30.00	-8.90	QP	
2	*	221.2900	36.45	-14.25	22.20	30.00	-7.80	QP	
3		266.4800	36.24	-11.34	24.90	37.00	-12.10	QP	
4		720.4400	26.95	-1.15	25.80	37.00	-11.20	QP	
5		935.2500	25.13	1.37	26.50	37.00	-10.50	QP	
6		994.5000	25.09	1.61	26.70	37.00	-10.30	QP	
_									

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

File :90088\Data :#22

Page: 1

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Config_2_V

Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

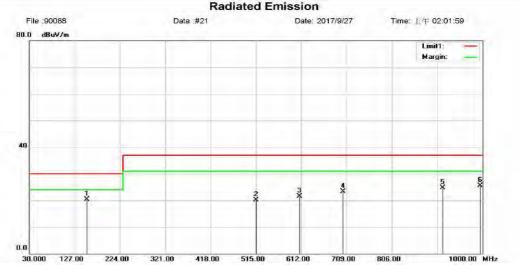
Mode: Config_2 Note: SD Card Read Polarization: Vertical

Power: From System

Distance:

Temperature: 25 ℃

Humidity: 65 %



No.	o. Mk.	Mk. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		71	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	152,2400	31.27	-10.97	20.30	30.00	-9.70	QP		
2		514.1100	25.29	-5.09	20.20	37.00	-16.80	QP		
3	(I II I	608,7700	24.65	-3.05	21.60	37.00	-15.40	QP		
4		701.7300	24.86	-1.46	23.40	37.00	-13,60	QP		
5		915.4900	23.80	0.90	24.70	37.00	-12.30	QP		
6		994.3200	23.96	1.54	25.50	37.00	-11.50	QP		

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

File :90088\Data :#21

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Config_3_H

Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

Mode: Config_3 Note: Play MP3 Polarization: Horizontal

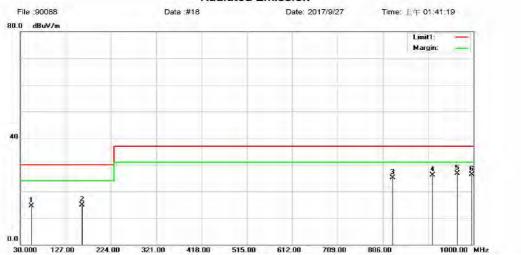
Power: AC 120V/60Hz

Distance:

Temperature: 25 ℃

Humidity: 65 %

Radiated Emission



No.		Freq.	Level	Factor	ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		52,9500	25.84	-11.34	14.50	30.00	-15.50	QP	
2		161.7400	26.10	-11 20	14.90	30.00	-15,10	QP	
3		826,5300	25.14	-0.04	25,10	37.00	-11.90	QP	
4		912.4800	25.23	0.87	26.10	37.00	-10.90	QP	
5	*	965.8300	25.14	1.66	26.80	37.00	-10.20	QP	
6		996.9100	24.80	1.60	26.40	37.00	-10.60	QP	

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

File :90088\Data :#18

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Config_3_V

Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

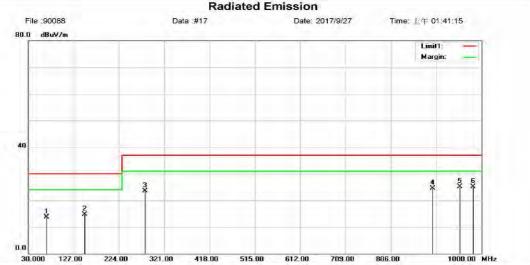
Mode: Config_3 Note: Play MP3 Polarization: Vertical

Power: AC 120V/60Hz

Distance:

Temperature: 25 ℃

Humidity: 65 %



No.	. Mk. Freq.	Freq.	1000	Freq.		Level	Factor	ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment			
1		68.6000	27.09	-13.39	13.70	30.00	-16.30	QP				
2		151.0000	25.73	-10.93	14.80	30.00	-15.20	QP				
3		280.0800	34.20	-10.70	23,50	37.00	-13.50	QP				
4		894.4500	23.79	0.71	24.50	37.00	-12.50	QP				
5		953.3600	23,96	1.14	25.10	37.00	-11.90	QP				
6	*	982.3400	23.78	1.42	25.20	37.00	-11.80	QP				

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

File:90088\Data:#17

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Config_4_H

Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

Mode: Config_4

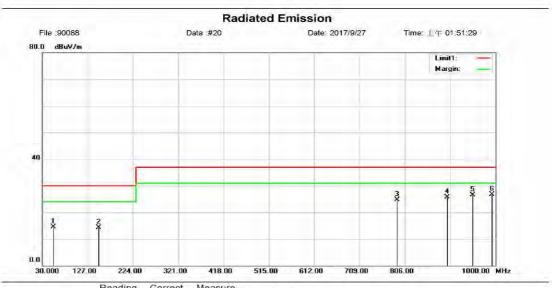
Note: Cradle Charger+Play MP3

Polarization: Horizontal

Power: AC 120V/60Hz

Distance:

Temperature: 25 ℃ Humidity: 65 %



No.	Mk.	Freq.	Level	Factor	ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		53.8700	26.01	-11.41	14.60	30.00	-15.40	QP	
2		150.0200	26.00	-11.60	14.40	30.00	-15.60	QP	
3		789.3100	24.96	-0.26	24.70	37.00	-12.30	QP	
4		896.3900	25.24	0.56	25.80	37.00	-11.20	QP	
5		951.0300	24.90	1.70	26,60	37.00	-10.40	QP	
6	*	993.0100	25.08	1.62	26.70	37.00	-10.30	QP	

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

File :90088\Data :#20

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Config_4_V

Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

Mode: Config_4

Note: Cradle Charger+Play MP3

Polarization: Vertical

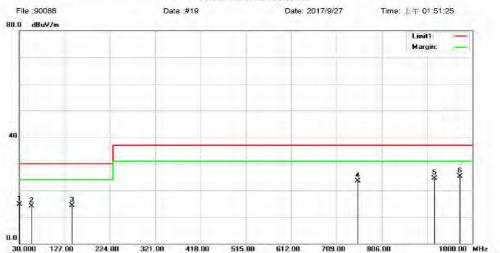
Power: AC 120V/60Hz

Distance:

Temperature: 25 ℃

Humidity: 65 %

Radiated Emission



No.	o. Mk.	1k. Freq.	Freq.	/lk. Freq.	VIk. Freq.	Иk. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment				
1		30.6000	27.23	-12.43	14.80	30.00	-15.20	QP					
2		55,9900	25.38	-11 18	14.20	30.00	-15.80	QP					
3	1	142.3600	25.75	-11.35	14.40	30,00	-15.60	QP					
4		754.3900	23.69	-0.19	23.50	37.00	-13.50	QP					
5		918.3800	23.69	0.91	24.60	37.00	-12.40	QP					
6	*	972.6000	23.97	1.33	25.30	37.00	-11.70	QP					

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

File :90088\Data :#19

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Report No.: E1/2017/90088

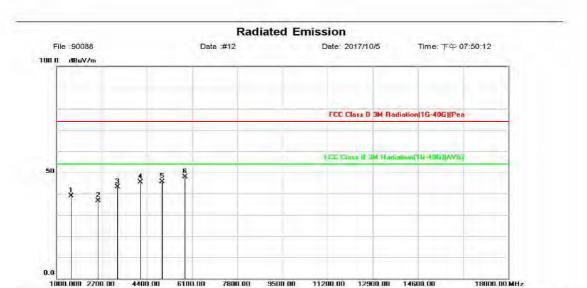
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Above 1GHz

Config_1_H

Temperature: 21 °C Site SGS 966 Chamber A Polarization: Horizontal Limit: FCC Class B 3M Radiation(1G-40G)(Pea Power: AC 120V/60Hz Humidity: 84 % Mode: Config_1 Distance: Note:



No.	Mk.	Freq.	Level	Factor	ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		1544.000	55.44	-16.60	38.84	74.00	-35.16	peak	
2		2581.000	50.59	-13.92	36.67	74.00	-37.33	peak	
3		3295.000	55.84	-12.76	43.08	74.00	-30.92	peak	
4		4162,000	56.37	-10.94	45.43	74.00	-28.57	peak	
5		4978.000	54.28	-8.57	45.71	74.00	-28,29	peak	
6	*	5828.000	55.16	-7.31	47.85	74.00	-26.15	peak	

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

File :90088\Data :#12

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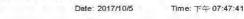


Note:

Config_1_V

Temperature: 21 °C Site SGS 966 Chamber A Polarization: Vertical Limit: FCC Class B 3M Radiation(1G-40G)(Pea Power: AC 120V/60Hz Humidity: 84 % Mode: Config_1 Distance:

Radiated Emission File:90088 Data :#11





No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		1748.000	56.37	-16.15	40.22	74.00	-33.78	peak	
2		2513.000	55.82	-14.07	41.75	74.00	-32.25	peak	
3		4162.000	54.61	-10.94	43.67	74.00	-30.33	peak	
4		4978,000	53.75	-8.57	45.18	74.00	-28.82	peak	
5	de	5811.000	54.66	-7.34	47.32	74,00	-26.68	peak	

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

File :90088\Data :#11

Page: 1

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Config_2_H

Temperature: 21 °C Site SGS 966 Chamber A Polarization: Horizontal Limit: FCC Class B 3M Radiation(1G-40G)(Pea Power: AC 120V/60Hz Humidity: 84 % Mode: Config_2 Distance:

Note:

Radiated Emission File:90088 Data :#14 Date: 2017/10/5 Time: 下午 07:54:16 100 0 dBuV/m 1000 000 2700 00 11200.00 18000.00 MHz

No.	No. Mk.	Freq.	Level	Factor	ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		1680.000	56.15	-16.30	39.85	74.00	-34.15	peak	
2		2530.000	54.89	-14.03	40.86	74.00	-33.14	peak	
3		3346.000	56.10	-12.72	43.38	74.00	-30.62	peak	
4		4179,000	55.24	-10.91	44.33	74.00	-29.67	peak	
5		4944.000	53.76	-8.69	45.07	74.00	-28,93	peak	
6	*	5760.000	54.81	-7.44	47.37	74.00	-26,63	peak	

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

File :90088\Data :#14

Page: 1

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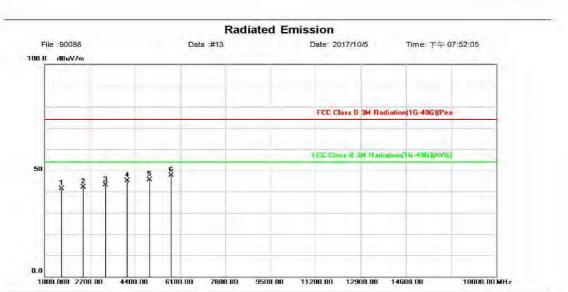
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Note:

Config_2_V

Temperature: 21 °C Site SGS 966 Chamber A Polarization: Vertical Limit: FCC Class B 3M Radiation(1G-40G)(Pea Power: AC 120V/60Hz Humidity: 84 % Mode: Config_2 Distance:



No.	No. Mk.	Freq.	Level	Factor	ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		1646.000	57.81	-16.38	41.43	74.00	-32.57	peak	
2		2462.000	56.43	-14.21	42.22	74.00	-31.78	peak	
3		3295.000	55.92	-12.76	43.16	74.00	-30.84	peak	
4		4111.000	56.13	-11.05	45.08	74.00	-28.92	peak	
5	1	4944.000	54.22	-8.69	45.53	74,00	-28,47	peak	
6	*	5760.000	55.07	-7.44	47.63	74.00	-26,37	peak	

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

File :90088\Data :#13 Page: 1

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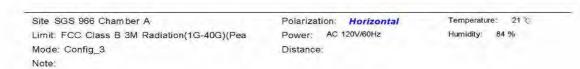
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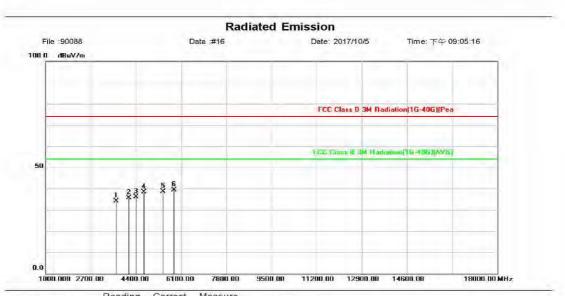


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Config_3_H





No.	No. Mk.	Freq.	Level	Factor	ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		3669.000	46.27	-12.16	34.11	74.00	-39.89	peak	
2		4145.000	46.67	-10.98	35.69	74.00	-38.31	peak	
3		4400.000	46.44	-10.42	36.02	74.00	-37.98	peak	
4		4706.000	47.83	-9.50	38.33	74.00	-35.67	peak	
5		5420.000	46.56	-7.99	38.57	74,00	-35.43	peak	
6	*	5845.000	46.75	-7.28	39.47	74.00	-34.53	peak	

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

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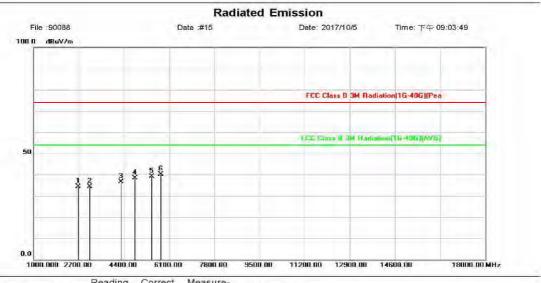


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Config_3_V

Temperature: 21 °C Site SGS 966 Chamber A Polarization: Vertical Limit: FCC Class B 3M Radiation(1G-40G)(Pea Power: AC 120V/60Hz Humidity: 84 % Mode: Config_3 Distance: Note:



No.	No. Mk.	Freq.	Level	Factor	ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		2683.000	47.99	-13.69	34.30	74.00	-39.70	peak	
2		3125.000	47.32	-12.89	34.43	74.00	-39.57	peak	
3		4298.000	47.19	-10.64	36.55	74.00	-37.45	peak	
4		4825.000	47.42	-9.10	38.32	74.00	-35.68	peak	
5	1	5454.000	47.06	-7.96	39.10	74,00	-34.90	peak	
6	*	5794.000	47.41	-7.37	40.04	74.00	-33.96	peak	

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

File :90088\Data :#15

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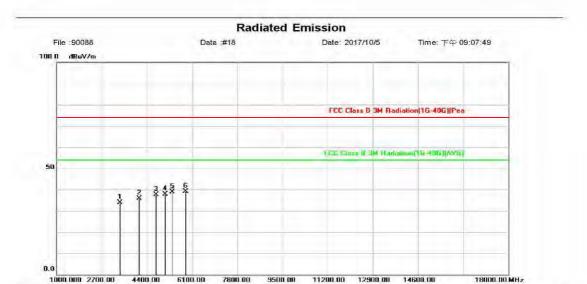


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Config_4_H

Temperature: 21 °C Site SGS 966 Chamber A Polarization: Horizontal Limit: FCC Class B 3M Radiation(1G-40G)(Pea AC 120V/60Hz Humidity: 84 % Mode: Config_4 Distance: Note:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		3397.000	46.45	-12.68	33.77	74.00	-40.23	peak	
2		4111.000	46.81	-11.05	35.76	74.00	-38.24	peak	
3		4740.000	46.95	-9.38	37.57	74.00	-36.43	peak	
4		5080.000	46.26	-8.41	37.85	74.00	-36.15	peak	
5		5352.000	46.85	-8.08	38.77	74,00	-35.23	peak	
6	*	5862.000	46.44	-7.25	39.19	74.00	-34.81	peak	

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

File :90088\Data :#18

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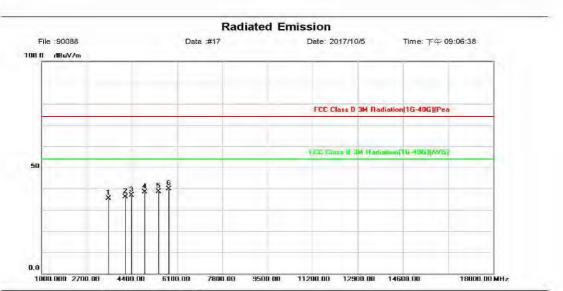


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Config_4_V

Temperature: 21 °C Site SGS 966 Chamber A Polarization: Vertical Limit: FCC Class B 3M Radiation(1G-40G)(Pea Power: AC 120V/60Hz Humidity: 84 % Mode: Config_4 Distance: Note:



No.	No. Mk.	Freq.	Reading Level	Correct	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		3533.000	47.80	-12.52	35.28	74.00	-38.72	peak	
2		4162.000	47.07	-10.94	36.13	74.00	-37.87	peak	
3		4383.000	47.32	-10.46	36.86	74.00	-37.14	peak	
4		4876.000	47.20	-8.91	38.29	74.00	-35.71	peak	
5		5403.000	46.63	-8.02	38.61	74.00	-35.39	peak	
6	*	5794.000	47.22	-7.37	39.85	74.00	-34.15	peak	
_									

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

File :90088\Data :#17

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