

FCC ID: APYHRO00261 Report No.: MH/2018/30235

Page: 1 of 72

# FCC CERTIFICATION REPORT

**Test Report No.** : MH/2018/30235

: 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. 30, 2018

Date of Test : Mar. 30 ~ Apr. 13, 2018

Date of Issue : Apr. 23, 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.

Tested By:

Apr. 23, 2018 Date

Approved By

Date

Apr. 23, 2018



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FCC ID: APYHRO00261 Report No.: MH/2018/30235

Page: 2 of 72

# **Revision History**

Report Number	Revision	Description	Issue Date
MH/2018/30235	Rev.00	Initial creation of document	Apr. 23, 2018

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Page: 3 of 72

# **Contents**

1. GENERAL INFORMATION	4
1.1 APPLICANT & MANUFACTURER INFORMATION	4
1.2 GENERAL DESCRIPTION OF EUT	4
1.3 DETAILS OF EUT	4
1.4 OPERATION PROCEDURE	6
1.5 DESCRIPTION OF SUPPORT UNITS	7
1.6 MODIFICATION LIST	7
1.7 ACCESSORIES CABLE LIST	7
1.8 TEST SET-UP CONFIGURATION	8
1.9 MEASUREMENT PROCEDURE	9
1.10 STANDARDS APPLICABLE FOR TESTING	9
1.11 SUMMARY OF RESULTS	9
2. EMISSION	10
2.1 Test Results	10
2.2 FREQUENCY RANGE	10
2.3 LIMITS OF CONDUCTED AND RADIATED EMISSION	10
2.3.1 LIMITS OF CONDUCTED EMISSION	10
2.3.2 LIMITS OF RADIATED EMISSIONS	11
2.4.Test of Conducted Emission	12
2.4.1 TEST EQUIPMENTS	12
2.4.2 OPERATING ENVIRONMENT	12
2.4.3 MEASUREMENT LEVEL CALCULATION	12
2.4.4 MEASUREMENT DATA:	13
2.5 TEST OF RADIATED EMISSION	19
2.5.1 TEST EQUIPMENTS	19
2.5.2 OPERATING ENVIRONMENT	21
2.5.3 MEASUREMENT LEVEL CALCULATION	21
2.5.4 MEASUREMENT DATA	22
3. PHOTOGRAPHS OF TEST	58

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FCC ID: APYHRO00261

Report No.: MH/2018/30235

Page: 4 of 72

# 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

**Battery** : Model No.: UBATIA287AFN2

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

3.85V, 3100mAh

Worst case : For model A and model B

CE worst case: Config 1

For model A

Below / Above RE worst case : Config 2

For model B

Below RE worst case: Config 2 Above RE worst case: Config 1

	model A	model B
Memory Micron	V	V
Memory Samsung	Worst	Worst

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Page: 5 of 72



model A AC Charger : PHIHONG / SB-AC19-TCPD Data Cable : Luxshare-ICT/L6KU3003-CS-R Headset : Sony / MDR-EX15AP	Config 1	Config2	Config 3		
Applicable standard		FCC 15B			
Accessories		+USB Cable +PHF	EUT + AC Adaptor +USB Cable +PHF		
Main function	Speech	Data Link	Camera		
Additional function	BT+WiFI +NFC				
Description					
radiated emission	GSM 850/1900 WCDMA BII/BV/BIV LTE B02/B04/B05	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/BV/BIV LTE B02/B04/B05	Data R/W	MP3/ ;REC mode (Front/Back) ;play REC		

model B AC Charger : PHIHONG / SB-AC19-TCPD Data Cable : Luxshare-ICT/L6KU3003-CS-R Headset : Sony / MDR-EX15AP	Config 1	Config2	Config 3	
Applicable standard		FCC 15B		
Accessories		+USB Cable +PHF	EUT + AC Adaptor +USB Cable +PHF	
Main function	Speech	Data Link	Camera	
Additional function	BT+WiFI +NFC			
Description				
radiated emission	GSM 850/1900 WCDMA BII/BV/BIV LTE B02/B04/B05	Data R/W	MP3/ ;REC mode (Front/Back) ;play REC	
conducted emission (DC Power)	NA	NA	NA	
conducted emission (AC Power)	NA	NA	NA	

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Report No.: MH/2018/30235

Page: 6 of 72

#### 1.4 Operation Procedure

#### Config 1

- 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 (GSM 850/1900, WCDMA B2/B4/B5, LTE B2/B4/B5) and transmit data.
- 6. Set up GPS simulator and turn on GPS test app.
- 7. Start the test.

#### Config 2

- 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.

#### 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.

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Page: 7 of 72

### 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
Earphone	Sony	MDR-EX15AP	N/A

**Support Equipment Used in Tested Cable** 

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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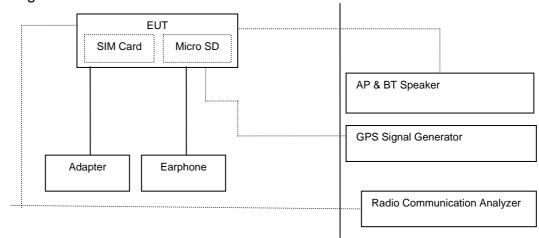


Page: 8 of 72

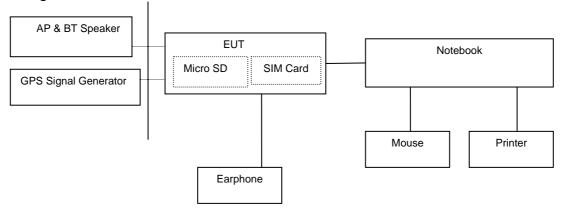


# 1.8 Test Set-Up Configuration

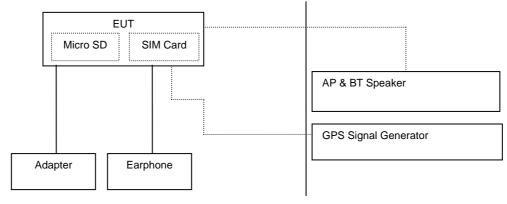
# Config 1



# Config 2



# Config 3



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Page: 9 of 72



#### 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)	
FCC Part 15 Subpart B Class B	Conducted Emission	PASS	Line	0.1620	-24.42 (QP)	
			Neutral	0.5100	-15.60 (AVG)	
Olass D	Radiated Emission	PASS	Ver.	168.0040	-5.32 (QP)	

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FCC ID: APYHRO00261

Report No.: MH/2018/30235

Page: 10 of 72



# 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)

30
1000
2000
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 <sub>.</sub> (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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Page: 11 of 72



#### 2.3.2 Limits of Radiated Emissions

# FCC Part 15, Subpart B Limit:

Detector Function : Quasi – Peak

- Bototon anothern Quadr Tour								
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 (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	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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Page: 12 of 72



#### 2.4.Test of Conducted Emission

### 2.4.1 Test Equipments

SC	SGS Conducted Emission HWAYA Conducted Room No.A EMC									
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due					
EMI Test Receiver	R&S	ESCI 3	101311	2017/6/23	2018/6/22					
Coaxial Cables	EMC Instruments Corp	EMCRG58-BM-BM- 3000	160812	2017/8/12	2018/8/11					
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	NSLK8128-300	2017/9/4	2018/9/3					
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					
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 Conducted Emission

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

Expanded uncertainty Ulab(K=2) of ISN conducted emission is 2.57 dB

Theory values uncertainty Ucispr 16-4-2 :2011+A1\_2014(K=2) of AC mains conducted Emission is 3.44dB Theory values uncertainty Ucispr 16-4-2 :2011+A1 2014 (K=2) of ISN conducted Emission is 4.59dB

# 2.4.2 Operating Environment

Temperature: 20 degree C Humidity: 69 %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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台灣檢驗科技股份有限公司



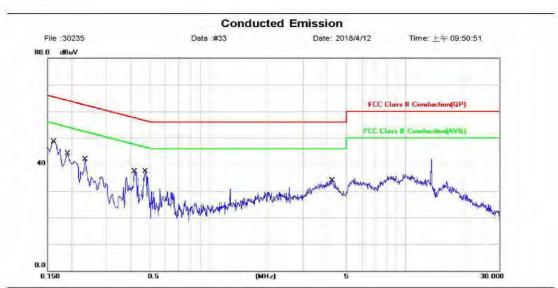
Page: 13 of 72

#### 2.4.4 Measurement Data:

### Config\_1\_L

Temperature: Site : Conduction Room Phase: L1 AC 120V/60Hz Humidity: 69 % Limit: FCC Class B Conduction(QP) Power:

Mode: Config 1 Note: GSM 1900



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1620	40.90	0.04	40.94	65.36	-24.42	QP	
2		0.1620	22.70	0.04	22.74	55.36	-32.62	AVG	
3		0.1900	37.00	0.03	37.03	64.04	-27.01	QP	
4		0.1900	20.40	0.03	20.43	54.04	-33.61	AVG	
5		0.2340	33.50	0.03	33.53	62.31	-28.78	QP	
6		0.2340	15.70	0.03	15.73	52.31	-36.58	AVG	
7		0.4180	27.60	0.04	27.64	57.49	-29.85	QP	
8		0.4180	10.80	0.04	10.84	47.49	-36.65	AVG	
9		0.4740	24.18	0.04	24.22	56.44	-32.22	QP	
10		0.4740	14.39	0.04	14.43	46.44	-32.01	AVG	
11		4.2420	26.20	0.39	26.59	56.00	-29.41	QP	
12		4.2420	15.60	0.39	15.99	46.00	-30.01	AVG	

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

File :30235\Data :#33 Page: 1

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Page: 14 of 72



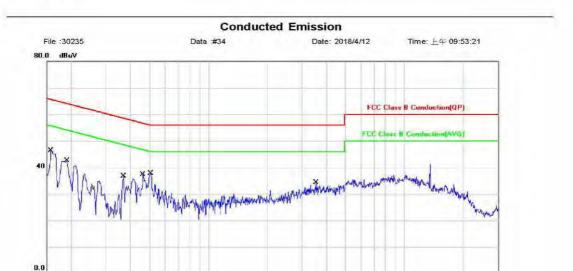
# Config\_1\_N

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

Mode: Config 1 Note: GSM 1900

AC 120V/60Hz Power:

Humidity: 69 %



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1580	36.90	0.12	37.02	65.57	-28.55	QP	
2		0.1580	20.80	0.12	20.92	55.57	-34.65	AVG	
3		0.1900	34.66	0.11	34.77	64.04	-29.27	QP	
4		0.1900	20.68	0.11	20.79	54.04	-33.25	AVG	
5		0.3700	24.50	0.12	24.62	58.50	-33.88	QP	
6		0.3700	9.80	0.12	9.92	48.50	-38.58	AVG	
7		0.4660	30.80	0.12	30.92	56.58	-25.66	QP	
8		0.4660	21.70	0.12	21.82	46.58	-24.76	AVG	
9		0.5100	35.82	0.12	35.94	56.00	-20.06	QP	
10	*	0.5100	30.28	0.12	30,40	46.00	-15.60	AVG	
11		3.5540	24.70	0.27	24.97	56.00	-31.03	QP	
12		3.5540	17.70	0.27	17.97	46.00	-28.03	AVG	

<sup>\*:</sup>Maximum data x:Over limit

File :30235\Data :#34

Page: 1

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Page: 15 of 72



Conduction Room Site : Limit: FCC Class B Conduction(QP) Phase: Power:

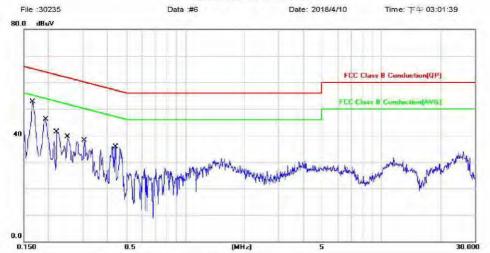
L1 From System Temperature:

21 % Humidity: 57 %

Mode: Config 2

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

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1660	49.00	0.04	49.04	65.16	-16.12	QP	
2		0.1660	29.20	0.04	29.24	55.16	-25.92	AVG	
3		0.1940	39.80	0.03	39.83	63.86	-24.03	QP	
4		0.1940	23.90	0.03	23.93	53,86	-29.93	AVG	
5		0.2220	41.20	0.03	41.23	62.74	-21.51	QP	
6		0.2220	24.30	0.03	24.33	52.74	-28.41	AVG	
7		0.2500	40.00	0.03	40.03	61.76	-21.73	QP	
8		0.2500	28.30	0.03	28.33	51,76	-23.43	AVG	
9		0.3060	34.50	0.04	34.54	60.08	-25.54	QP	
10		0.3060	21.00	0.04	21.04	50.08	-29.04	AVG	
11		0.4420	35.90	0.04	35.94	57.02	-21.08	QP	
12		0.4420	26.00	0.04	26.04	47.02	-20.98	AVG	

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

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Page: 1

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Page: 16 of 72

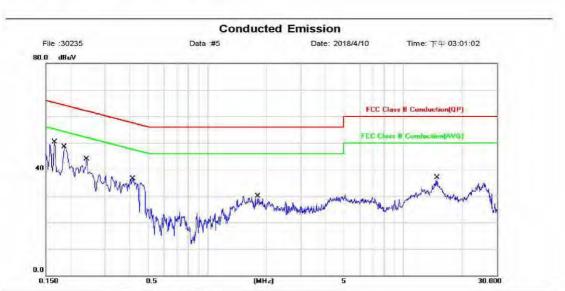


# Config\_2\_N

Temperature: 21 % Conduction Room Phase: Site : Limit: FCC Class B Conduction(QP) From System Humidity: 57 % 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	*	0.1660	46.70	0.12	46.82	65.16	-18.34	QP	
2	1	0.1660	23.80	0.12	23.92	55.16	-31.24	AVG	
3		0.1860	43.40	0.11	43.51	64.21	-20.70	QP	
4		0.1860	33.20	0.11	33.31	54.21	-20.90	AVG	
5		0.2420	36 60	0.11	36.71	62.03	-25.32	QP	
6		0.2420	23.70	0.11	23.81	52.03	-28.22	AVG	
7	)	0.4180	33.70	0.12	33.82	57.49	-23.67	QP	
8		0.4180	27.80	0.12	27.92	47.49	-19.57	AVG	
9		1.8180	23.90	0.23	24.13	56.00	-31.87	QP	
10		1.8180	16.60	0.23	16.83	46.00	-29.17	AVG	-
11		14.9020	32.50	0.60	33.10	60.00	-26.90	QP	
12		14.9020	26.50	0.60	27.10	50.00	-22.90	AVG	

<sup>\*:</sup>Maximum data x:Over limit

File:30235\Data:#5 Page: 1

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Page: 17 of 72

# Config\_3\_L

Conduction Room Site : Limit: FCC Class B Conduction(QP)

Mode: Config 3

Phase: L1 AC 120V/60Hz Power:

Temperature: 21 %

Humidity: 57 %

Note: MP3

		ed Emission	
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×		FCC Clea	z B Comfection(AVG)
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1660	42.20	0.04	42.24	65.16	-22.92	QP	
2		0.1660	22.40	0.04	22.44	55.16	-32.72	AVG	
3	*	0.1860	42.50	0.03	42.53	64.21	-21.68	QP	
4		0.1860	26.20	0.03	26.23	54.21	-27,98	AVG	
5		0.2140	39.30	0.03	39.33	63.05	-23.72	QP	
6		0.2140	23.30	0.03	23.33	53.05	-29.72	AVG	
7		0.2340	38.20	0.03	38.23	62.31	-24.08	QP	
8		0.2340	20.10	0.03	20.13	52.31	-32.18	AVG	
9		0.2540	33.50	0.03	33.53	61.63	-28.10	QP	
10		0.2540	17.10	0.03	17.13	51.63	-34.50	AVG	
11		0.4940	32.50	0.04	32.54	56.10	-23.56	QP	
12		0.4940	18.80	0.04	18.84	46.10	-27.26	AVG	

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

File :30235\Data :#16

Page: 1

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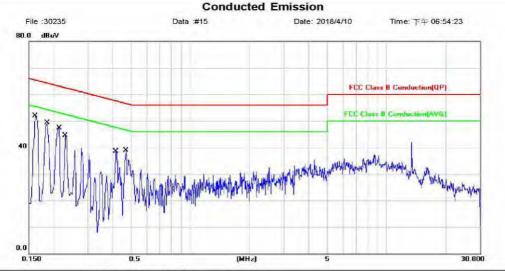
Page: 18 of 72

# Config\_3\_N

Temperature: 21 % Conduction Room Phase: Site : AC 120V/60Hz Humidity: 57 % 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		0.1620	42.20	0.12	42.32	65.36	-23.04	QP	
2		0.1620	24.00	0.12	24.12	55.36	-31.24	AVG	
3		0.1860	41.50	0.11	41.61	64.21	-22.60	QP	
4		0.1860	26.40	0.11	26.51	54.21	-27.70	AVG	
5		0.2140	38.00	0.11	38.11	63.05	-24.94	QP	
6		0.2140	22.60	0.11	22,71	53.05	-30.34	AVG	
7		0.2300	36.70	0.11	36.81	62.45	-25.64	QP	
8		0.2300	22.00	0.11	22.11	52,45	-30.34	AVG	
9		0.4180	32.80	0.12	32.92	57.49	-24.57	QP	
10		0.4180	24.70	0.12	24.82	47.49	-22.67	AVG	
11		0.4700	33.70	0.12	33.82	56.51	-22.69	QP	
12	*	0.4700	24.00	0.12	24.12	46.51	-22.39	AVG	

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

File :30235\Data :#15 Page: 1

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Page: 19 of 72



#### 2.5 Test of Radiated Emission

### 2.5.1 Test Equipments

#### **Below 1GHz**

	SGS Radiated	_Below_1GHz HWAYA 10	Dm_EMC		
EOLIIDMENT TYPE	Manufacturer	Model Number	Serial	Calibration	Calibration
EQUIPMENT TYPE	Manufacturer	woder 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
Dro Amplifior	EMC Instruments	EMC330	980178	2018/3/31	2019/3/30
Pre Amplifier	Corp.	EIVICSSU	960176	2010/3/31	2019/3/30
Pre Amplifier	EMC Instruments	EMC330	980179	2018/3/31	2019/3/30
Fie Amplillei	Corp.	EIVIC330	960179	2010/3/31	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	R&S	CMU 200	119988	2018/2/22	2019/2/21
Communication Tester	Nao	CIVIO 200	119900	2010/2/22	2019/2/21
Wideband Radio	R&S	CMW 500	152303	2018/2/21	2019/2/20
Communication Tester	Nao	CIVIVV 300	152505	2010/2/21	2019/2/20
Radio Communication	Anritsu	MT8820C	6201465315	2017/12/10	2018/12/9
Analyzer					
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.

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 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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Page: 20 of 72



#### **Above 1GHz**

SGS Radiated_Above_1GHz HWAYA 966B_EMC											
	SGS Radiated_/	hbove_1GHz HWAY	A 966B_EMC		_						
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration	Calibration						
EQUITMENT THE				Date	Due						
Spectrum Analyzer	R&S	FSV 40	100979	2017/12/21	2018/12/20						
EMI Test Receiver	R&S	ESR 7	101507	2017/5/27	2018/5/26						
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	R&S	SCU-18	10203	2018/3/26	2019/3/25						
Coaxial Cable	Huber+Suhner	SUCCOFLEX 104	MY 5817/4	2018/3/26	2019/3/25						
Pre Amplifier	EMC Instruments	EMC184045B	980135	2017/9/30	2018/9/29						
Coaxial Cable	<b>EMC Instruments</b>	EMC104-SM-SM	140923	2017/9/30	2018/9/29						
Coaxial Cable	EMC Instruments	EMC104-SM-SM	140925	2017/9/30	2018/9/29						
Coaxial Cable	EMC Instruments	EMC104-SM-SM	140927	2017/9/30	2018/9/29						
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	MY 2153/2	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						
Radio Communication Analyzer	Anritsu	MT8820C	6201465315	2017/12/10	2018/12/9						
Controller	MF-7802	N/A	N/A	N.C.R.	N.C.R.						
Antenna Master	N/A	N/A	N/A	N.C.R.	N.C.R.						
Turn Table	SGS	966 Chamber B	SAC-B	2017/10/8	2018/10/7						
Site VSWR	SGS	966 Chamber B	SAC-B	2017/10/8	2018/10/7						
Test S/W	Farad	EZ-EMC	980135	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 (k=2) of radiated emission measurement is 5.06 dB. (1-6GHz)

Expanded uncertainty (k=2) of radiated emission measurement is 5.15 dB. (6-18GHz)

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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Page: 21 of 72



# 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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SGS

Report No.: MH/2018/30235

Page: 22 of 72

#### 2.5.4 Measurement Data

#### **Below 1GHz**

# model A Config\_1\_H

Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

Mode: Config\_1 Note: LTE B05

1st source memory: Samsung 3-5

Polarization: Horizontal Power: AC 120V/60Hz

20 ℃ Temperature:

Humidity: 52 %

Distance: 10m

#### Radiated Emission File: MH-2015-30235 Date: 2018/4/12 Time: 下午 08:24:35 80.0 dBuV/m LimitT Margin 40 5 6 \* \* 127 00 224.00 321 00 418 00 515.00 612 00 709.00 806.00 1000.00 MHz

No.	o. Mk.	Freq.	Freq.	k. Freq.	k. Freq.		Mk. Freq.	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
									MHz	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1		47.4600	23.08	-11.13	11.95	30.00	-18.05	QP							
2		137.6700	27.55	-12.01	15.54	30.00	-14.46	QP							
3	1	197,8100	30.59	-14.11	16,48	30,00	-13.52	QP							
4		771.0800	23.45	-0.39	23.06	37.00	-13.94	QP							
5	*	960,2300	23.47	1.90	25.37	37.00	-11.63	QP							
6		982.5400	23.58	1.68	25.26	37.00	-11.74	QP							

\*: Maximum data x:Over limit hover margin

File : MH-2015-30235\Data :#52

Page: 1

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Page: 23 of 72

# Config\_1\_V

Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

Mode: Config\_1 Note: LTE B05

1st source memory : Samsung 3-5

Polarization: Vertical

Power: AC 120V/60Hz

Distance: 10m

Temperature: 20 ℃

Humidity: 52 %

Radiated Emission

		Limit1: — Margin: —
T		
1 × 3		<b>4</b> 5 <b>8</b>
* * *		

No.	o. Mk.	c. Freq.	Freq.			Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment			
1		81.1300	33.86	-15.96	17.90	30.00	-12.10	QP				
2	*	135,6500	32.25	-12.18	20.07	30.00	-9.93	QP				
3		200.7200	32.88	-14.21	18.67	30,00	-11.33	QP				
4	11	935.9800	22.49	1.38	23.87	37.00	-13.13	QP				
5		967.9900	22.63	1.58	24.21	37.00	-12.79	QP				
6		997.0900	23.77	1.68	25.45	37.00	-11.55	QP				

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

File :MH-2015-30235\Data :#51

Page: 1

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Page: 24 of 72

# Config\_2\_H

Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

Mode: Config\_2

Note: Data Link - Write

1st source memory : Samsung 3-5

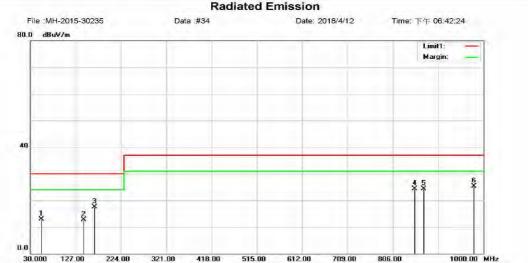
Polarization: Horizontal

Power: From System

Distance: 10m

Temperature: 20 %

Humidity: 52 %



No.	o. Mk.		Freq.	Freq.	Freq.	k. Freq.	c. Freq.	Mk. Freq.	Mk. Freq.	Freq.	1000	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment									
1		54.2500	24.34	-11.49	12.85	30.00	-17.15	QP										
2		144.4600	24.30	-11.54	12.76	30.00	-17.24	QP										
3		167,7400	28.79	-11.24	17,55	30,00	-12.45	QP										
4		853,5300	23,72	0.53	24.25	37.00	-12.75	QP										
5		871.9600	23.60	0.63	24.23	37.00	-12.77	QP										
6	*	979.6300	23.63	1.71	25.34	37.00	-11.66	QP										

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

File :MH-2015-30235\Data :#34

Page: 1

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Page: 25 of 72

# Config\_2\_V

Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

Mode: Config\_2

Note: Data Link - Write

1st source memory : Samsung 3-5

Polarization: Vertical

Power: From System

Distance: 10m

Temperature: 20 %

Humidity: 52 %

Radiated Emission



No.	o. Mk.	Freq. MHz	Level	Factor	ment	Limit	Over			
			MHz	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		51.3400	25.92	-10.81	15.11	30.00	-14.89	QP		
2		72.0070	35.10	-14.12	20.98	30.00	-9.02	QP		
3	*	168.0040	36.20	-11.52	24.68	30,00	-5.32	QP		
4	11.	261,1200	38,81	-11.77	27.04	37.00	-9.96	QP		
5		895.6200	23.55	1.01	24.56	37.00	-12.44	QP		
6		967.0200	22.75	1.56	24.31	37.00	-12.69	QP		
_										

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

File :MH-2015-30235\Data #33

Page: 1

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Page: 26 of 72

# Config\_3\_H

Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

Mode: Config\_3 Note: REC (Back)

1st source memory : Samsung 3-5

Polarization: Horizontal

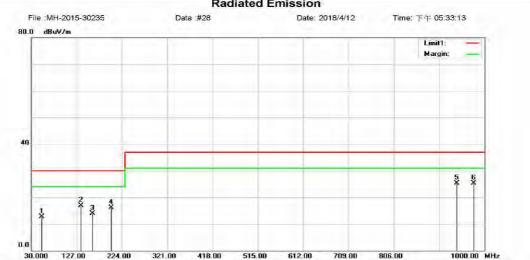
Power: AC 120V/60Hz

Distance: 10m

Temperature: 20 %

Humidity: 52 %

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		52.3100	24.08	-11.31	12.77	30.00	-17.23	QP		
2		136.7000	28.94	-12.10	16.84	30.00	-13.16	QP		
3		160.9500	25.30	-11.38	13.92	30,00	-16.08	QP		
4		201.6900	30.27	-14.26	16.01	30.00	-13.99	QP		
5		940,8300	23.46	1.78	25.24	37.00	-11.76	QP		
6	*	977.6900	23.59	1.73	25.32	37.00	-11.68	QP		

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

File :MH-2015-30235\Data :#28

Page: 1

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Page: 27 of 72

# Config\_3\_V

Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

Mode: Config\_3 Note: REC (Back)

1st source memory : Samsung 3-5

Polarization: Vertical

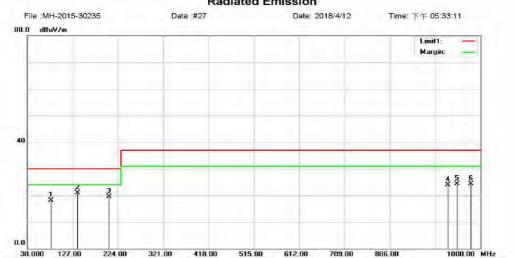
Power: AC 120V/60Hz

Distance: 10m

Temperature: 20 %

Humidity: 52 %

Radiated Emission



No.	o. Mk.		Level	Factor	ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		81.4100	34.06	-16.00	18.06	30.00	-11.94	QP	
2	*	137.6700	32.95	-12.10	20.85	30.00	-9.15	QP	
3		204.6000	33.71	-14.25	19,46	30,00	-10.54	QP	
4	1	931,1300	22.54	1.34	23.88	37.00	-13.12	QP	
5		949.5600	22.74	1.49	24.23	37.00	-12.77	QP	
6		979.6300	22.70	1.62	24.32	37.00	-12.68	QP	

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

File :MH-2015-30235\Data #27

Page: 1

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Page: 28 of 72

# model B Config\_1\_H

Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

Mode: Config\_1 Note: LTF B02

1st source memory: Micron 1-4

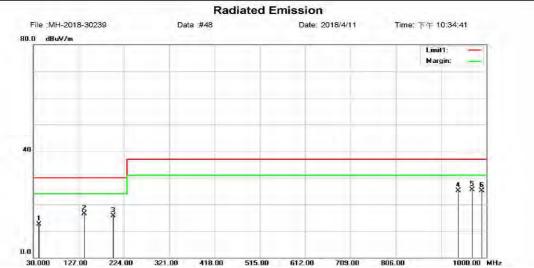
Polarization: Horizontal

Power: AC 120V/60Hz

Temperature: 20 %

Humidity: 52 %

Distance: 10m



No.	o. Mk.	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		42.6100	23.81	-11.36	12.45	30.00	-17.55	QP	
2		138.6400	28.36	-11.93	16.43	30.00	-13.57	QP	
3	1	201,6900	29.89	-14.26	15.63	30,00	-14.37	QP	
4		939.8600	23.40	1.76	25.16	37.00	-11.84	QP	
5	*	968,9600	23.62	1.81	25.43	37.00	-11.57	QP	
6		990,3000	23.56	1.60	25.16	37.00	-11.84	QP	

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

File MH-2018-30239\Data #48

Page: 1

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Page: 29 of 72

# Config\_1\_V

Power:

Distance: 10m

Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

Mode: Config\_1 Note: LTE B02

1st source memory: Micron 1-4

Polarization: Vertical

AC 120V/60Hz

Temperature: 20 %

Humidity: 52 %

### Radiated Emission File : MH-2018-30239 Data :#47 Date: 2018/4/11 Time: 下午 10:34:40 80.0 dBuV/m Limit1 Margin: 8 127.00 224.00 321.00 515.00 612.00 709.00 806.00 1000.00 MHz

No.	o. Mk.	Mk. Freq.	Freq.	Freq.	Freq.	Freq.	Freq.	Freq.	Level	Factor	ment	Limit	Over		
						dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment			
1		48.4300	24.08	-10.77	13.31	30.00	-16.69	QP							
2		82.3800	33.49	-16.14	17.35	30.00	-12.65	QP							
3	*	138,4400	32.55	-12.06	20,49	30,00	-9,51	QP							
4	11.	201.6900	29,30	-14.22	15.08	30.00	-14.92	QP							
5		944.7100	22.47	1.46	23,93	37.00	-13.07	QP							
6		990.3000	22.76	1.66	24.42	37.00	-12.58	QP							

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

File MH-2018-30239\Data #47

Page: 1

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FCC ID: APYHRO00261

Report No.: MH/2018/30235

Page: 30 of 72



Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

Mode: Config\_2

Note: Data Link - Read

1st source memory: Micron 1-4

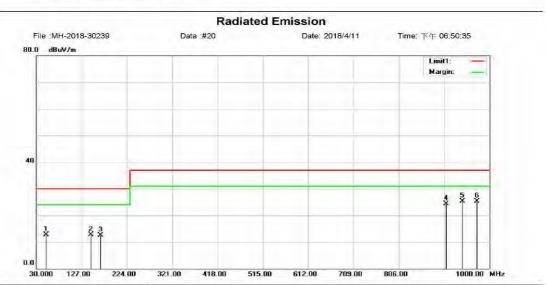
Polarization: Horizontal

Power: From System

Distance: 10m

Temperature: 20 %

Humidity: 52 %



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		51.3400	23.89	-11.22	12.67	30.00	-17.33	QP	
2		147,3700	24.15	-11.36	12.79	30.00	-17.21	QP	
3	1.00	167,7400	23.75	-11.24	12,51	30.00	-17.49	QP	
4		906.8800	23.40	0.96	24.36	37.00	-12.64	QP	
5		942.7700	23.40	1.83	25.23	37.00	-11.77	QP	
6	*	973.8100	23.64	1.76	25.40	37.00	-11.60	QP	

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

File MH-2018-30239\Data #20

Page: 1

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Page: 31 of 72

# Config\_2\_V

Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

Mode: Config\_2

Note: Data Link - Read

1st source memory: Micron 1-4

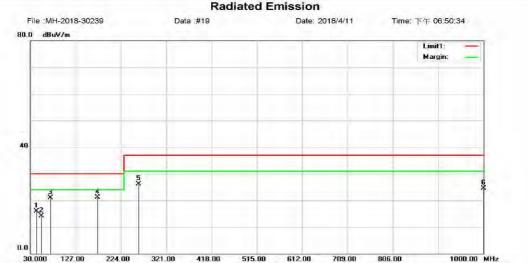
Polarization: Vertical

Power: From System

Distance: 10m

Temperature: 20 %

Humidity: 52 %



No.	No. Mk.	. Freq.	Reading Level	Correct Factor dB/m	Measure- ment	Limit dBuV/m	Over dB		
		MHz	dBuV		dBuV/m			Detector	Comment
1		43.5800	27.00	-11.06	15.94	30.00	-14.06	QP	
2		54.2500	25.18	-11.05	14.13	30.00	-15.87	QP	
3		72.0100	34.99	-14.12	20.87	30,00	-9.13	QP	
4	*	174.0000	33.08	-11.90	21,18	30.00	-8.82	QP	
5		261.0000	37.81	-11.78	26.03	37.00	-10.97	QP	
6		999.1300	22.82	1.70	24.52	37.00	-12.48	QP	

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

File MH-2018-30239\Data #19

Page: 1

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Page: 32 of 72

# Config\_3\_H

Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

Mode: Config\_3 Note: REC (Back)

1st source memory: Micron 1-4

Polarization: Horizontal

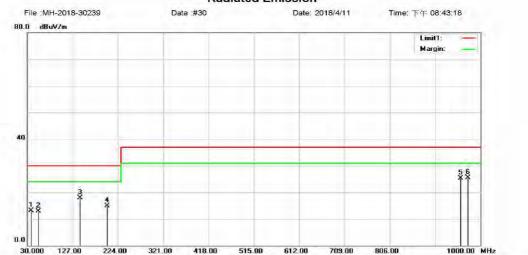
Power: AC 120V/60Hz

Distance: 10m

Temperature: 20 %

Humidity: 52 %





No.	Mk.	Mk. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			dBuV	dB/m	dBuV/m	dBuV/m		Detector	Comment
1		38.7300	24.79	-11.71	13.08	30.00	-16.92	QP	
2		54.2500	24.39	-11.49	12.90	30.00	-17.10	QP	
3		142.5200	29.60	-11.64	17.96	30,00	-12.04	QP	
4		201.6900	29.24	-14.26	14.98	30.00	-15,02	QP	
5		958.2900	23.41	1.92	25.33	37.00	-11.67	QP	
6	*	972.8400	23.66	1.77	25.43	37.00	-11.57	QP	

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

File MH-2018-30239\Data #30

Page: 1

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Page: 33 of 72

# Config\_3\_V

Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

Mode: Config\_3 Note: REC (Back)

1st source memory: Micron 1-4

Polarization: Vertical

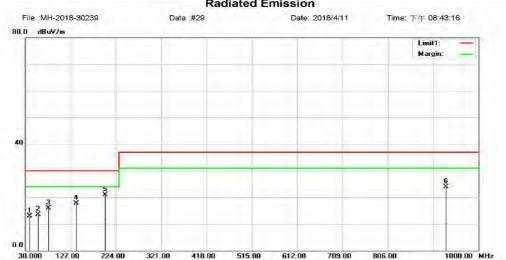
Power: AC 120V/60Hz

Distance: 10m

Temperature: 20 %

Humidity: 52 %

Radiated Emission



No.	No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector		
		MHz	dBuV	dB/m					Comment	
1		39.7000	24.52	-11.53	12.99	30.00	-17.01	QP		
2		57.1600	24.80	-11.27	13.53	30.00	-16.47	QP		
3	1	78.9900	31.45	-15.59	15.86	30,00	-14.14	QP		
4		139,6100	29.79	-12.01	17.78	30.00	-12.22	QP		
5	*	201.6900	35.19	-14.22	20.97	30.00	-9.03	QP		
6		930.1600	22.62	1.34	23,96	37.00	-13,04	QP		

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

File :MH-2018-30239\Data :#29

Page: 1

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FCC ID: APYHRO00261

Report No.: MH/2018/30235

Page: 34 of 72



#### **Above 1GHz**

# model A 1GHz-18GHz Config\_1\_H

Site SGS 966 Chamber A

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

Mode: Config\_1 Note: WCDMA B1 Polarization: Horizontal Power: AC 120V/60Hz

Temperature:

21 °C Humidity: 56 %

Distance:

Radiated Emission File:30235 Data :#4 Date: 2018/4/13 Time: 下午 07:01:27 100 0 dBuV/m FCC Class B 3M Radiation[1G-40G][Pea

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		6967.001	58.14	-4.73	53.41	74.00	-20.59	peak	
2		6967.001	41.21	-4.73	36.48	54.00	-17.52	AVG	
3		9724.896	55.37	-1.77	53.60	74.00	-20.40	peak	
4		9724.896	39.97	-1.77	38.20	54.00	-15.80	AVG	
5	100	10601.144	53.04	-0.29	52.75	74.00	-21.25	peak	
6		10601.144	39,39	-0.29	39.10	54.00	-14.90	AVG	
7		15849.531	52.99	0.84	53.83	74.00	-20.17	peak	
8		15849.531	39.81	0.84	40.65	54.00	-13.35	AVG	
9		16485.521	50.53	3.26	53.79	74.00	-20.21	peak	
10	*	16485,521	37.89	3,26	41.15	54.00	-12.85	AVG	
11		17018.276	48.68	5.47	54.15	74.00	-19.85	peak	
12	111	17018.276	34.63	5.47	40.10	54.00	-13.90	AVG	

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

File :30235\Data :#4

Page: 1

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FCC ID: APYHRO00261

Report No.: MH/2018/30235

Page: 35 of 72



# Config\_1\_V

Site SGS 966 Chamber A

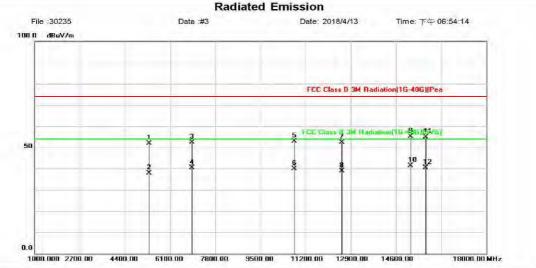
Limit: FCC Class B 3M Radiation(1G-40G)(Pea

Mode: Config\_1 Note: WCDMA B1 Polarization: Vertical

Power: AC 120V/60Hz

Distance:

Temperature: 21 °C Humidity: 56 %



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		5318.002	59.99	-8.01	51.98	74.00	-22.02	peak	
2		5318.002	45.80	-8.01	37.79	54.00	-16.21	AVG	
3		6925.251	57.11	-4.79	52.32	74.00	-21.68	peak	
4	11	6925.251	45.05	-4.79	40.26	54.00	-13.74	AVG	
5		10771.663	52.63	0.19	52.82	74,00	-21.18	peak	
6		10771.663	39.61	0.19	39.80	54.00	-14.20	AVG	
7		12582.175	52.43	-0.07	52.36	74.00	-21.64	peak	
8		12582.175	39.01	-0.07	38.94	54.00	-15.06	AVG	
9		15151.273	50.81	4.24	55.05	74.00	-18.95	peak	
10	*	15151.273	37,17	4.24	41.41	54.00	-12.59	AVG	
11		15721.321	53.30	1.55	54.85	74.00	-19.15	peak	
12		15721.321	38.89	1.55	40.44	54.00	-13.56	AVG	

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

File :30235\Data :#3

Page: 1

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Page: 36 of 72

21 °C

# Config\_2\_H

Site SGS 966 Chamber A

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

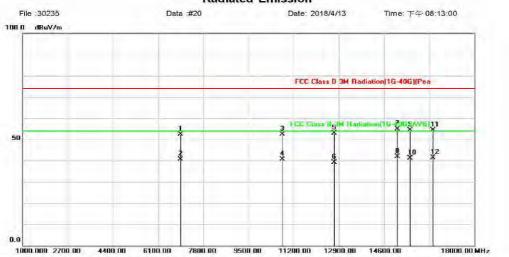
Mode: Config\_2 Note: data read Polarization: Horizontal

Power: AC 120V/60Hz

Temperature: Humidity: 56 %

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		6947.533	57.20	-4.75	52.45	74.00	-21.55	peak	
2		6947.533	45.49	-4.75	40.74	54.00	-13.26	AVG	
3		10779.456	52.28	0.21	52.49	74.00	-21.51	peak	
4		10779.456	40.41	0.21	40.62	54.00	-13.38	AVG	
5		12736.494	52.77	0.04	52.81	74.00	-21.19	peak	
6		12736,494	39,13	0.04	39.17	54.00	-14.83	AVG	
7		15101.152	50.39	4.45	54.84	74.00	-19.16	peak	
8	*	15101.152	37.48	4.45	41.93	54.00	-12.07	AVG	
9		15595.188	52.18	2.24	54.42	74.00	-19.58	peak	
10		15595,188	38.94	2.24	41.18	54.00	-12.82	AVG	
11		16442.593	51.38	2.98	54.36	74.00	-19.64	peak	
12		16442.593	38.38	2.98	41.36	54.00	-12.64	AVG	

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

File :30235\Data :#20

Page: 1

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Page: 37 of 72

# Config\_2\_V

Site SGS 966 Chamber A

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

Mode: Config\_2 Note: data read Polarization: Vertical

Power: AC 120V/60Hz

Distance:

Temperature: 21 °C Humidity: 56 %

18000.00 MHz

Radiated Emission File:30235 Data :#19 Date: 2018/4/13 Time: 下午 08:05:09 100 0 dBuV/m

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		1013.763	76.40	-18.14	58.26	74.00	-15.74	peak	
2		1013.763	57.22	-18.14	39.08	54.00	-14.92	AVG	
3		1595.220	76.48	-16.24	60.24	74.00	-13.76	peak	
4		1595.220	53.88	-16.24	37.64	54.00	-16.36	AVG	
5	de.	1952.375	77.49	-15.27	62.22	74.00	-11.78	peak	
6		1952.375	52.63	-15.27	37.36	54.00	-16,64	AVG	
7		2129.752	72.14	-14.76	57.38	74.00	-16,62	peak	
8		2129.752	52.61	-14.76	37.85	54.00	-16.15	AVG	
9		3185.311	66.16	-12.73	53.43	74.00	-20.57	peak	
10		3185.311	49.77	-12.73	37.04	54.00	-16.96	AVG	
11		15073.043	50.65	4.58	55.23	74.00	-18.77	peak	
12		15073.043	37.03	4.58	41.61	54.00	-12.39	AVG	

11200.00

File :30235\Data :#19

Page: 1

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<sup>\*:</sup>Maximum data x:Over limit l:over margin



Page: 38 of 72



#### Config\_3\_H

Site SGS 966 Chamber A

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

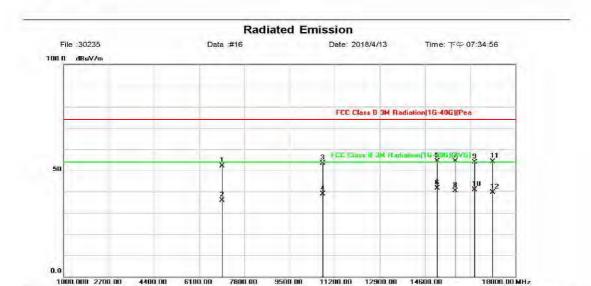
Mode: Config\_3 Note: REC Back Polarization: Horizontal

Power: AC 120V/60Hz

Distance:

Temperature: 21 °C

Humidity: 56 %



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		6967.002	56.94	-4.73	52.21	74.00	-21.79	peak	
2		6967.002	40.62	-4.73	35.89	54.00	-18.11	AVG	
3		10754.444	53.30	0.15	53.45	74.00	-20.55	peak	
4	1	10754.444	38.80	0.15	38.95	54.00	-15.05	AVG	
5		15055,124	49.68	4.65	54.33	74.00	-19.67	peak	
6	*	15055.124	36.96	4.65	41.61	54.00	-12.39	AVG	
7		15736.263	52.92	1.46	54.38	74.00	-19.62	peak	
8		15736.263	38.88	1.46	40.34	54.00	-13.66	AVG	
9		16462.910	50.72	3.12	53.84	74.00	-20.16	peak	
10		16462.910	37.88	3.12	41.00	54.00	-13,00	AVG	
11		17147.662	48.19	5.96	54.15	74.00	-19.85	peak	
12	7 1 3	17147.662	33.77	5.96	39.73	54.00	-14.27	AVG	

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

File :30235\Data :#16

Page: 1

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FCC ID: APYHRO00261

Report No.: MH/2018/30235

Page: 39 of 72



#### Config\_3\_V

21 °C Site SGS 966 Chamber A Polarization: Vertical Limit: FCC Class B 3M Radiation(1G-40G)(Pea

Mode: Config\_3 Note: REC Back Power: AC 120V/60Hz Humidity: 56 % Distance:

	Radia	ated Emissio	n		
File :30235	Data :#15	Date	2018/4/13	Time: 下午 07	27:15
00.0 dBoV/m					
		FC	Class D 3M Rad	iation[1G-40G][Pea	
		1 3 FLE	Cores H 3M Hadis	mun(16-706)(8VE)1	1
50			1		
-		* *		* * *	4
			41		
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		10198.098	53.68	-1.26	52.42	74.00	-21.58	peak	
2		10198.098	41.31	-1.26	40.05	54.00	-13.95	AVG	
3		10612.030	52.91	-0.26	52.65	74.00	-21.35	peak	
4	1 1	10612.030	39.89	-0.26	39.63	54.00	-14.37	AVG	
5		12490.342	52.28	-0.12	52.16	74,00	-21.84	peak	
6		12490.342	39.81	-0.12	39.69	54.00	-14.31	AVG	
7		15068.807	49.78	4.59	54.37	74.00	-19.63	peak	
8	*	15068.807	37.37	4.59	41.96	54.00	-12.04	AVG	
9		15740.818	52.78	1.44	54.22	74.00	-19.78	peak	
10		15740.818	39.31	1.44	40.75	54.00	-13,25	AVG	
11		16445.670	50.91	3.00	53.91	74.00	-20.09	peak	
12		16445.670	38.09	3.00	41.09	54.00	-12.91	AVG	

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

File :30235\Data :#15

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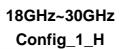
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Page: 1



Page: 40 of 72



Site SGS 966 Chamber A

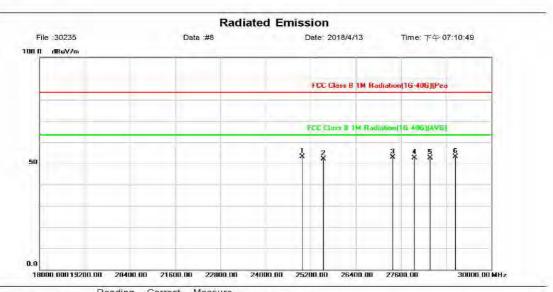
Limit: FCC Class B 1M Radiation(1G-40G)(Pea

Mode: Config\_1 Note: WCDMA B1 Polarization: Horizontal

Power: AC 120V/60Hz

Temperature: 21 °C Humidity: 56 %

Distance:



No.	Mk.	Freq.	Level	Factor	ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		24984.000	50.49	2.59	53.08	83.50	-30.42	peak	
2		25536.000	50.52	1.55	52.07	83.50	-31.43	peak	
3	111	27384.000	50.97	1.94	52.91	83.50	-30.59	peak	
4		27960.000	50.74	1.99	52.73	83.50	-30.77	peak	
5	T	28368.000	50.74	1.85	52.59	83.50	-30.91	peak	
6	*	29052.000	51.64	1.61	53,25	83.50	-30.25	peak	

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

File :30235\Data :#8

Page: 1

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Page: 41 of 72

Temperature:

21 °C

30000 00 MHz

# Config\_1\_V

Site SGS 966 Chamber A

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

Mode: Config\_1 Note: WCDMA B1 Polarization: Vertical

Power: AC 120V/60Hz

Humidity: 56 %

Distance:

Radiated Emission File:30235 Data :#7 Date: 2018/4/13 Time: 下午 07:10:11 100 0 dBaV/n FCC Class B 1M Radiation(1G-40G)[Pea FCC Clary B 1M Radiation[16 406][AV6] 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		22140.000	51.11	1.60	52.71	83.50	-30.79	peak	
2	*	24804.000	51.49	2.52	54.01	83.50	-29.49	peak	
3		26076.000	50.60	2.23	52.83	83.50	-30.67	peak	
4		27876.000	51.18	1.98	53.16	83.50	-30.34	peak	
5		28920.000	50.96	1.63	52.59	83,50	-30.91	peak	
6		29604.000	51,60	1.80	53,40	83.50	-30.10	peak	

24000.00

22800.00

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

File :30235\Data :#7

Page: 1

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Page: 42 of 72

# Config\_2\_H

Site SGS 966 Chamber A

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

Mode: Config\_2 Note: data read Polarization: Horizontal

AC 120V/60Hz

Distance:

Temperature: 21 °C Humidity: 56 %

30000 00 MHz

Radiated Emission File:30235 Data :#24 Date: 2018/4/13 Time: 下午 08:24:51 100 0 dBaV/n FCC Class B 1M Radiation(1G-40G)[Pea FCC Clary B 1M Radiation[16 406][AV6] \* 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		20892.000	53.43	-1.11	52.32	83.50	-31.18	peak	
2	1	22128.000	50.97	1.60	52.57	83.50	-30.93	peak	
3	*	25620.000	51.25	1.64	52.89	83.50	-30.61	peak	
4		26148.000	49.43	2.34	51.77	83.50	-31.73	peak	
5		27816.000	50.64	1.97	52.61	83.50	-30.89	peak	
6		29676.000	50.87	1.87	52.74	83.50	-30.76	peak	

24000.00

25200 00

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

File :30235\Data :#24

Page: 1

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Page: 43 of 72

# Config\_2\_V

Site SGS 966 Chamber A

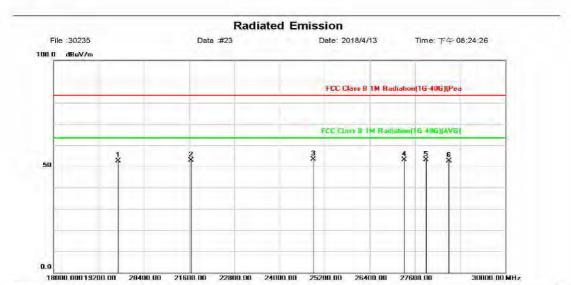
Limit: FCC Class B 1M Radiation(1G-40G)(Pea

Mode: Config\_2 Note: data read Polarization: Vertical

Power: AC 120V/60Hz

Distance:

Temperature: 21 °C Humidity: 56 %



	MHz	an.ar				Over		
		dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
	19716.000	54.15	-1.46	52.69	83.50	-30.81	peak	
- 6	21648.000	52.17	0.75	52.92	83.50	-30.58	peak	
*	24900.000	50.81	2.56	53.37	83.50	-30.13	peak	
	27312.000	51.19	1.97	53.16	83.50	-30.34	peak	
1	27888.000	51.21	1.98	53.19	83.50	-30.31	peak	
	28500.000	50.82	1.80	52.62	83.50	-30.88	peak	
*	•	21648.000	21648.000 52.17 24900.000 50.81 27312.000 51.19 27888.000 51.21	21648.000 52.17 0.75 24900.000 50.81 2.56 27312.000 51.19 1.97 27888.000 51.21 1.98	21648.000     52.17     0.75     52.92       24900.000     50.81     2.56     53.37       27312.000     51.19     1.97     53.16       27888.000     51.21     1.98     53.19	21648.000     52.17     0.75     52.92     83.50       24900.000     50.81     2.56     53.37     83.50       27312.000     51.19     1.97     53.16     83.50       27888.000     51.21     1.98     53.19     83.50	21648.000     52.17     0.75     52.92     83.50     -30.58       24900.000     50.81     2.56     53.37     83.50     -30.13       27312.000     51.19     1.97     53.16     83.50     -30.34       27888.000     51.21     1.98     53.19     83.50     -30.31	21648.000     52.17     0.75     52.92     83.50     -30.58     peak       24900.000     50.81     2.56     53.37     83.50     -30.13     peak       27312.000     51.19     1.97     53.16     83.50     -30.34     peak       27888.000     51.21     1.98     53.19     83.50     -30.31     peak

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

File :30235\Data :#23

Page: 1

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Page: 44 of 72



# Config\_3\_H

Site SGS 966 Chamber A

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

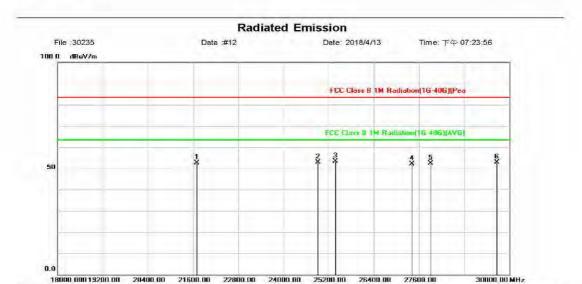
Mode: Config\_3 Note: REC Back Polarization: Horizontal

Power: AC 120V/60Hz

Distance:

Temperature: 21 °C

Humidity: 56 %



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		21696.000	51.83	0.87	52.70	83.50	-30.80	peak	
2		24912.000	50.23	2.57	52.80	83.50	-30.70	peak	
3	*	25380.000	51.52	1.77	53.29	83.50	-30.21	peak	
4		27408.000	50.12	1.93	52.05	83.50	-31.45	peak	
5	17	27912.000	50.52	1.98	52.50	83.50	-31.00	peak	
6		29676.000	50.97	1.87	52.84	83.50	-30.66	peak	

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

File :30235\Data :#12

Page: 1

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Page: 45 of 72

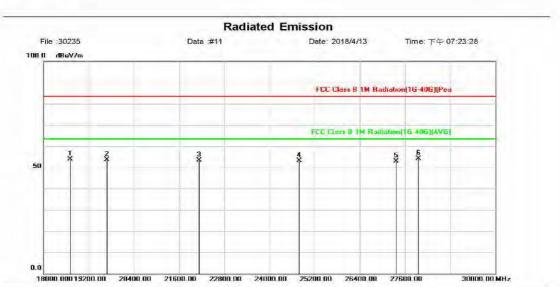


#### Config\_3\_V

Temperature: Site SGS 966 Chamber A Polarization: Vertical Limit: FCC Class B 1M Radiation(1G-40G)(Pea

Mode: Config\_3 Note: REC Back

21 °C Power: AC 120V/60Hz Humidity: 56 % Distance:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		18708.000	55.37	-1.54	53.83	83.50	-29.67	peak	
2		19680.000	55.03	-1.46	53.57	83.50	-29.93	peak	
3	11 = 5	22128.000	51.90	1.60	53.50	83.50	-30.00	peak	
4		24792.000	50.57	2.52	53.09	83.50	-30.41	peak	
5	17	27360.000	50.83	1.95	52.78	83,50	-30.72	peak	
6	*	27960.000	52.02	1.99	54.01	83.50	-29.49	peak	

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

File :30235\Data :#11

Page: 1

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Page: 46 of 72



# model B 1GHz-18GHz Config 1 H

Site SGS 966 Chamber B

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

Mode: Config 1 Note: WCDMA B2 Polarization: Horizontal

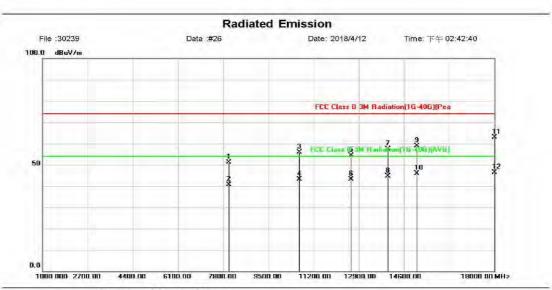
Power: AC 120V/60Hz

Humidity: 66 %

Distance:

Temperature:

22 °C



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		8004.000	50.72	0.39	51.11	74.00	-22.89	peak	
2		8004.000	40.14	0.39	40.53	54.00	-13.47	AVG	
3	1   9	10673.000	53.08	2.72	55.80	74.00	-18.20	peak	
4	111	10673,000	40.51	2.72	43.23	54.00	-10,77	AVG	
5		12611.000	51.58	2.74	54.32	74.00	-19.68	peak	
6	1.1.5	12611.000	40.31	2.74	43.05	54.00	-10.95	AVG	
7		14005,000	48.33	9.07	57.40	74.00	-16.60	peak	
8		14005.000	35.65	9.07	44.72	54.00	-9.28	AVG	
9	1 1 9	15076.000	51.47	7.52	58.99	74.00	-15.01	peak	
10	-	15076.000	38.30	7.52	45.82	54.00	-8.18	AVG	
11		18000.000	42.58	20.23	62.81	74.00	-11.19	peak	
12	*	18000.000	26.16	20.23	46.39	54.00	-7.61	AVG	

<sup>\*:</sup>Maximum data x:Over limit !:over margin

File :30239\Data :#26

Page: 1

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FCC ID: APYHRO00261

Report No.: MH/2018/30235

Page: 47 of 72



Site SGS 966 Chamber B

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

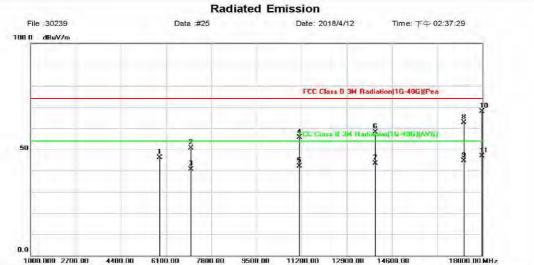
Mode: Config 1 Note: WCDMA B2 Polarization: Vertical

Power: AC 120V/60Hz

Distance:

Temperature: Humidity: 66 %

22 0



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		5862.000	50.60	-4.47	46.13	74.00	-27.87	peak	
2		7035.000	52.00	-1.49	50.51	74.00	-23.49	peak	
3		7035.000	42.01	-1.49	40.52	54.00	-13.48	AVG	
4		11115,000	51.44	4.10	55.54	74.00	-18.46	peak	
5		11115,000	37.98	4.10	42.08	54,00	-11.92	AVG	
6		13971.000	49.35	8.87	58.22	74.00	-15.78	peak	
7		13971.000	34.39	8.87	43.26	54.00	-10.74	AVG	
8		17303.000	52.27	10.24	62.51	74.00	-11.49	peak	
9		17303.000	34.34	10.24	44.58	54.00	-9.42	AVG	
10	*	17983.000	47.87	19,93	67,80	74.00	-6.20	peak	
11	- 77	17983.000	26.99	19.93	46.92	54.00	-7.08	AVG	

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

File :30239\Data :#25

Page: 1

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FCC ID: APYHRO00261 Report No.: MH/2018/30235

Page: 48 of 72



#### Config\_2\_H

Site SGS 966 Chamber B

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

Mode: Config 2 Note: Data Read Polarization: Horizontal

Power: AC 120V/60Hz

Distance:

22 0 Humidity: 66 %

Radiated Emission File:30239 Data :#16 Date: 2018/4/12 Time: 下午 02:56:44 100 0 dBuV/m 11200.00 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		1646.000	65.94	-14.40	51.54	74.00	-22.46	peak	
2		1646.000	45.74	-14.40	31.34	54.00	-22.66	AVG	
3		2258.000	63.35	-12.33	51.02	74.00	-22.98	peak	
4		2258.000	41.05	-12.33	28.72	54.00	-25.28	AVG	
5		11404.000	50.54	4.27	54.81	74.00	-19,19	peak	
6		11404.000	37.89	4.27	42.16	54.00	-11.84	AVG	
7		13920.000	50.32	8.52	58.84	74.00	-15.16	peak	
8	115	13920.000	35.15	8.52	43.67	54.00	-10.33	AVG	
9	11.3	15025.000	51.88	7.76	59.64	74.00	-14.36	peak	
10		15025.000	37.05	7.76	44.81	54.00	-9.19	AVG	
11		17983.000	46.01	19.93	65.94	74.00	-8.06	peak	
12	*	17983.000	26.98	19.93	46.91	54.00	-7.09	AVG	

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

File :30239\Data :#16

Page: 1

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FCC ID: APYHRO00261

Report No.: MH/2018/30235

Page: 49 of 72



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

Mode: Config 2 Note: Data Read

Site SGS 966 Chamber B

Polarization: Vertical

Power: AC 120V/60Hz

Distance:

Config\_2\_V

22 0

18000 00 MHz

Humidity: 66 %

Radiated Emission File:30239 Data :#15 Date: 2018/4/12 Time: 下午 02:49:01 100 0 dBuV/m

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		1629.000	64.75	-14.45	50.30	74.00	-23.70	peak	
2		1629.000	46.01	-14.45	31.56	54.00	-22.44	AVG	
3		2139.000	65.38	-12.69	52.69	74.00	-21.31	peak	
4		2139,000	45.33	-12.69	32.64	54.00	-21.36	AVG	
5		11200.000	51,60	4.15	55.75	74.00	-18.25	peak	
6		11200.000	39.00	4.15	43.15	54.00	-10.85	AVG	
7		14022.000	48.55	9.05	57.60	74.00	-16,40	peak	
8		14022.000	35.46	9.05	44.51	54.00	-9.49	AVG	
9		15042.000	50.24	7.69	57.93	74.00	-16.07	peak	
10		15042.000	35.16	7.69	42,85	54.00	-11.15	AVG	
11		17983.000	46.21	19.93	66.14	74.00	-7.86	peak	
12	*	17983.000	26.30	19.93	46.23	54.00	-7.77	AVG	

11200.00

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

File :30239\Data :#15

Page: 1

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FCC ID: APYHRO00261 Report No.: MH/2018/30235

Page: 50 of 72



#### Config\_3\_H

Site SGS 966 Chamber B

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

Mode: Config 3 Note: REC BACK

0.0

Polarization: Horizontal

AC 120V/60Hz

Distance:

Temperature: 22 0

18000.00 MHz

Humidity: 66 %

14600.00

Radiated Emission File:30239 Data :#18 Date: 2018/4/12 Time: 下午 03:24:50 100 0 dBuV/m

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		6950.000	50.84	-1.67	49.17	74.00	-24.83	peak	
2		7936.000	51.17	0.32	51.49	74.00	-22.51	peak	
3		7936.000	41.93	0.32	42.25	54.00	-11.75	AVG	
4		10690.000	51.79	2.78	54.57	74.00	-19.43	peak	
5	11	10690,000	40.47	2.78	43.25	54,00	-10.75	AVG	
6		13971.000	47.57	8.87	56.44	74.00	-17.56	peak	
7		13971.000	35.18	8.87	44.05	54.00	-9.95	AVG	
8		14770.000	49.28	8.20	57.48	74.00	-16.52	peak	
9		14770.000	36.67	8.20	44.87	54.00	-9.13	AVG	
10		18000.000	43.71	20,23	63,94	74.00	-10.06	peak	
11	*	18000.000	26.08	20.23	46.31	54.00	-7.69	AVG	

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

File :30239\Data :#18

Page: 1

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Page: 51 of 72

# Config\_3\_V

Site SGS 966 Chamber B

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

Mode: Config 3 Note: REC BACK Polarization: Vertical

Power: AC 120V/60Hz

Distance:

Temperature: 22 0 Humidity: 66 %

Radiated Emission File:30239 Data :#17 Date: 2018/4/12 Time: 下午 03:17:28 100 0 dBaV/m 5× 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		2989.000	49.58	-10.07	39.51	74.00	-34.49	peak	
2		10979.000	51.01	3.95	54.96	74.00	-19.04	peak	
3		10979.000	39.31	3.95	43.26	54.00	-10.74	AVG	
4		14447.000	46.89	8.64	55.53	74.00	-18.47	peak	
5	11	14447.000	34.62	8.64	43.26	54.00	-10.74	AVG	
6		15025.000	48.61	7.76	56.37	74.00	-17.63	peak	
7		15025.000	34.42	7.76	42.18	54.00	-11.82	AVG	
8	l e	17456.000	51.34	11.12	62.46	74.00	-11.54	peak	
9	1 . 1	17456.000	34.15	11.12	45.27	54.00	-8.73	AVG	
10		17983.000	44.32	19,93	64.25	74.00	-9.75	peak	
11	*	17983.000	26.12	19.93	46.05	54.00	-7.95	AVG	

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

File .30239\Data :#17

Page: 1

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Page: 52 of 72



# 18GHz~30GHz Config\_1\_H

Site SGS 966 Chamber B

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

Mode: Config 1

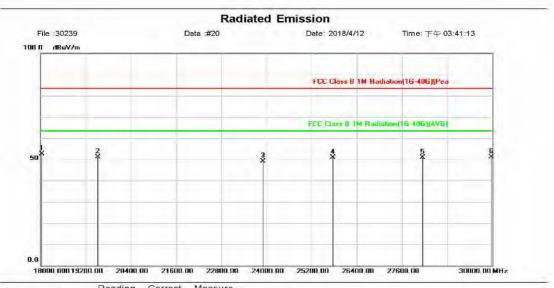
Polarization: Horizontal Power: AC 120V/60Hz

Temperature: 22 0

Humidity: 66 %

Distance:

Note: WCDMA B2



No.	Mk	. Freq.	Level	Factor	ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	18044.118	54.32	-1.59	52.73	83.50	-30.77	peak	
2	200	19522.059	52.60	-1.50	51.10	83.50	-32.40	peak	
3		23911.765	47.23	1.82	49.05	83.50	-34.45	peak	
4		25764.706	49.10	1.81	50.91	83.50	-32.59	peak	
5		28147.059	48.88	1.94	50.82	83.50	-32.68	peak	
6		29977.941	49.07	2.17	51.24	83.50	-32.26	peak	

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

File :30239\Data :#20

Page: 1

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Page: 53 of 72



# Config\_1\_V

Site SGS 966 Chamber B

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

Mode: Config 1 Note: WCDMA B2

0.0

Polarization: Vertical

Power: AC 120V/60Hz

Temperature: 22 0 Humidity: 66 %

30000 00 MHz

Distance:

Radiated Emission

File:30239 Data :#19 Date: 2018/4/12 Time: 下午 03:36:07 100 0 dBaV/m FCC Class B 1M Radiation(1G-40G)[Pea

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	18000.000	55.80	-1.60	54.20	83.50	-29.30	peak	
2		22058.823	48.36	1.60	49.96	83.50	-33.54	peak	
3	11.	25125.000	48.01	2.32	50.33	83.50	-33.17	peak	
4		26095.588	49.71	2.26	51.97	83.50	-31.53	peak	
5		27838.235	49.38	1.97	51.35	83.50	-32.15	peak	
6	i.	29933.823	48.60	2.13	50.73	83.50	-32.77	peak	

24000.00

25200 00

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

File :30239\Data :#19

Page: 1

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Page: 54 of 72



#### Config\_2\_H

Site SGS 966 Chamber B

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

Mode: Config 2 Note: Data Read Polarization: Horizontal

Power: AC 120V/60Hz

Temperature: Humidity: 66 %

22 0

Distance:

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over									
		MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		18044.118	52.32	-1.59	50.73	83.50	-32.77	peak								
2		19522.059	52.10	-1.50	50.60	83.50	-32.90	peak								
3	11 + 9	23338.235	47.91	1.46	49.37	83.50	-34.13	peak								
4		26139.706	48.61	2.32	50.93	83.50	-32.57	peak								
5	TT.	28742.647	49.86	1.70	51.56	83,50	-31.94	peak								
6	*	29713.235	49.96	1.92	51.88	83.50	-31.62	peak								

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

File :30239\Data :#22

Page: 1

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Page: 55 of 72



# Config\_2\_V

Site SGS 966 Chamber B

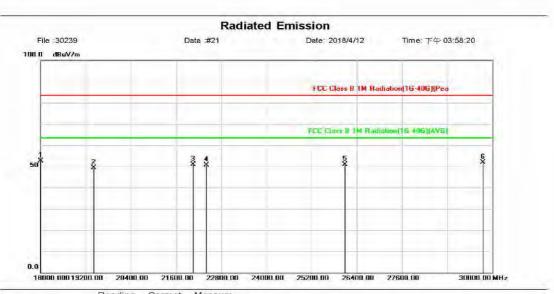
Limit: FCC Class B 1M Radiation(1G-40G)(Pea

Mode: Config 2 Note: Data Read Polarization: Vertical

Power: AC 120V/60Hz

Temperature: 22 0 Humidity: 66 %

Distance:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	18000.000	54.30	-1.60	52.70	83.50	-30.80	peak	
2		19411.765	50.93	-1.52	49.41	83.50	-34.09	peak	
3	Tel	22058.823	49.36	1.60	50.96	83.50	-32.54	peak	
4		22411.765	49.07	1.60	50.67	83.50	-32.83	peak	
5	4 6	26095.588	48.71	2.26	50.97	83.50	-32.53	peak	
6		29757.353	49.99	1.96	51.95	83.50	-31.55	peak	

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

File :30239\Data :#21

Page: 1

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Page: 56 of 72

# Config\_3\_H

Site SGS 966 Chamber B

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

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

Temperature: 22 0

Humidity: 66 %

Distance:

Radiated Emission



No.	Mk.	Freq.	Level	Factor	ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		18044.118	53.32	-1.59	51.73	83.50	-31.77	peak	
2		19323.529	51.97	-1.54	50.43	83.50	-33.07	peak	
3		24772.059	47.92	2.51	50.43	83.50	-33.07	peak	
4	*	25764.706	50.10	1.81	51.91	83.50	-31.59	peak	
5	17	28169,118	48.11	1.93	50.04	83.50	-33,46	peak	
6		29977.941	49.07	2.17	51.24	83.50	-32.26	peak	

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

File :30239\Data :#24

Page: 1

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Page: 57 of 72

# Config\_3\_V

Site SGS 966 Chamber B

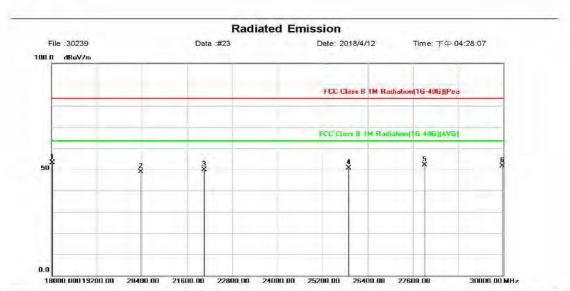
Limit: FCC Class B 1M Radiation(1G-40G)(Pea

Mode: Config 3 Note: REC BACK Polarization: Vertical

Power: AC 120V/60Hz

Temperature: 22 0 Humidity: 66 %

Distance:



No.	Mk	Freq.	Level	Factor	ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	18022.059	54.64	-1.60	53.04	83.50	-30.46	peak	
2		20382.353	49.80	-0.94	48.86	83.50	-34.64	peak	
3		22058.823	48.36	1.60	49.96	83.50	-33.54	peak	
4		25897.059	48.76	1.98	50.74	83.50	-32.76	peak	
5	4.7	27904.412	50.18	1.98	52.16	83.50	-31.34	peak	
6	11	29977.941	49.35	2.17	51.52	83.50	-31.98	peak	

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

File :30239\Data :#23

Page: 1

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