



FCC CERTIFICATION REPORT

Test Report No. : MH/2018/30235

Applicant : Sharp Corporation, Mobile Communication B.U.

Address : 2-13-1, Hachihonmatsu-lida, Higashi-hiroshima-shi, Hiroshima,
739-0192, Japan

Manufacturer : Sharp Corporation

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

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

Remarks :

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:

Thomas Liu

Date

Apr. 23, 2018

Thomas Liu (Engineer)

Approved By

Eddy Cheng

Date

Apr. 23, 2018

Eddy Cheng (Asst. Supervisor)



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Revision History

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

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1. General Information

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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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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	EUT + AC Adaptor +USB Cable +PHF	EUT +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	EUT + AC Adaptor +USB Cable +PHF	EUT +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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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

1. Let EUT plug in SD Card & SIM Card, connect to NB_1 with USB cable and turn it on.
2. Let EUT connect to headphones and play 1k sound source.
3. NB_2 & EUT Link AP-WiFi Worst(5G/2.4G) and ping EUT IP.
4. BT connect to Bluetooth speaker and turn on NFC function.
5. Set up GPS simulator and turn on GPS test app.
6. NB_1 and EUT execute Data Read/Write.
7. Start the test.

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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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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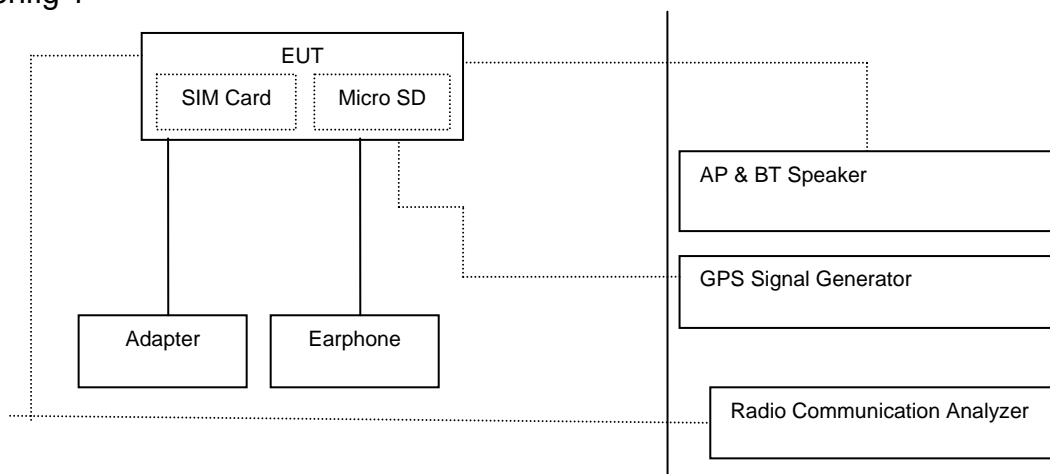
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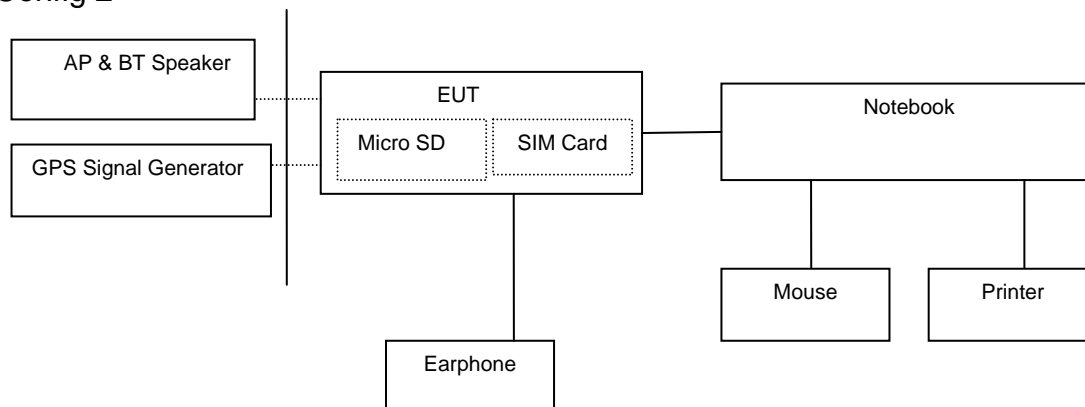
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1.8 Test Set-Up Configuration

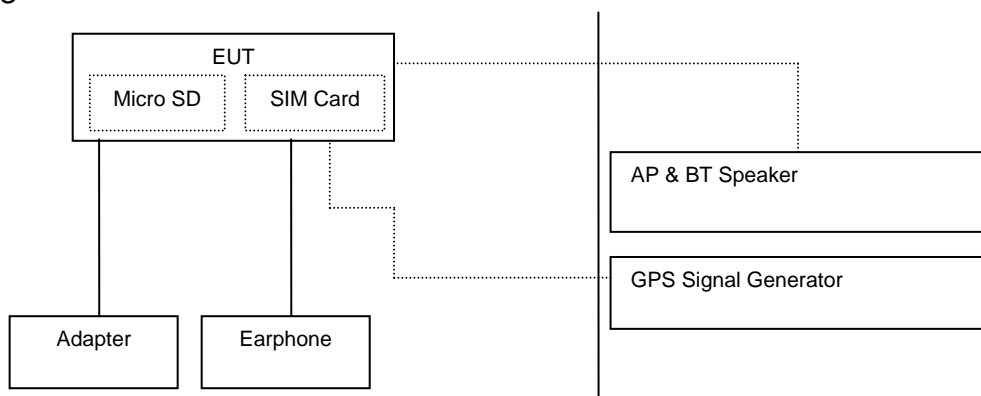
Config 1



Config 2



Config 3



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1.9 Measurement Procedure

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

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

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

1.10 Standards Applicable for Testing

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

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

1.11 Summary of Results

Highest Emission					
Standard	Test Type	Result	Phase/Pol.	Frequency(MHz)	Margin(dB)
FCC Part 15 Subpart B Class B	Conducted Emission	PASS	Line	0.1620	-24.42 (QP)
			Neutral	0.5100	-15.60 (AVG)
	Radiated Emission	PASS	Ver.	168.0040	-5.32 (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 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

2.3 Limits of Conducted and Radiated Emission

2.3.1 Limits of Conducted Emission

FCC Part 15, Subpart B/CISPR 22:

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	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

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 3m)
	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 (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	Peak	Average	Peak	Average
Above 1000	79.3	59.3	73.9	53.9

CISPR 22 Limit:

- Detector Function : Quasi – Peak

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 10m)
	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 (GHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	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

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 U_{lab}(K=2) of conducted emission is 2.25 dB
 Expanded uncertainty U_{lab}(K=2) of ISN conducted emission is 2.57 dB
 Theory values uncertainty U_{cispr 16-4-2 :2011+A1_2014}(K=2) of AC mains conducted Emission is 3.44dB
 Theory values uncertainty U_{cispr 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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2.4.4 Measurement Data:

Config_1_L

Site : Conduction Room Phase: **L1** Temperature: 20 °C
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 69 %
 Mode: Config 1
 Note: GSM 1900

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
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 l:over margin

File :30235\Data :#33

Page: 1

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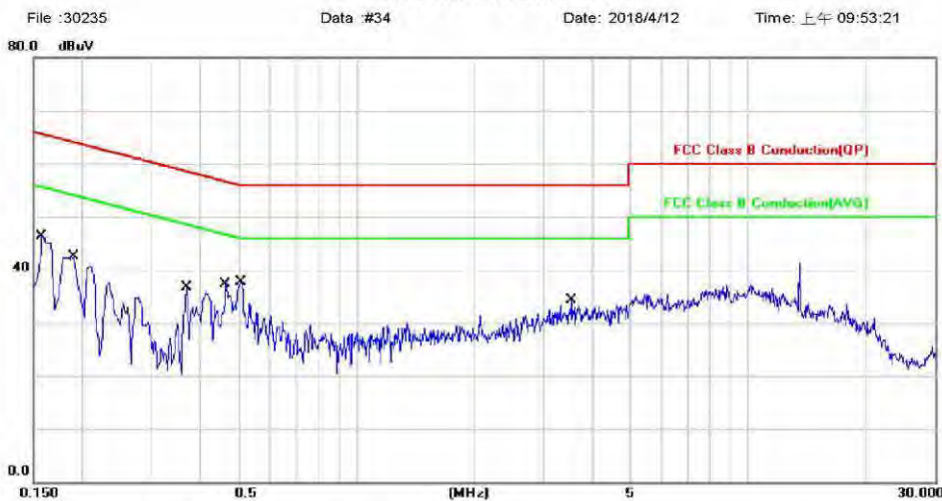
Config_1_N

Site : Conduction Room
Limit: FCC Class B Conduction(QP)
Mode: Config 1
Note: GSM 1900

Phase: **N**
Power: AC 120V/60Hz

Temperature: 20 °C
Humidity: 69 %

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	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	

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

File :30235\Data :#34

Page: 1

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Config_2_L

Site : Conduction Room

Phase: L1

Temperature: 21 °C

Limit: FCC Class B Conduction(QP)

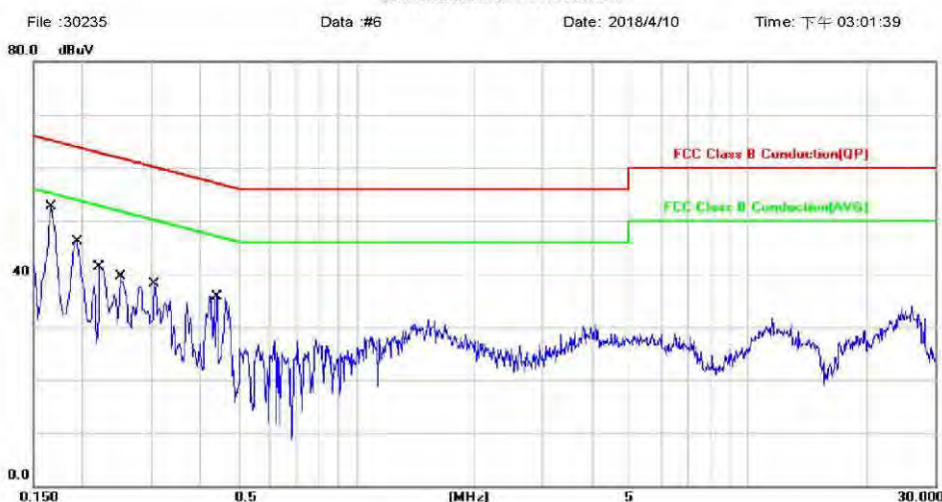
Power: From System

Humidity: 57 %

Mode: Config 2

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

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	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 l:over margin

File :30235\Data :#6

Page: 1

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Config_2_N

Site : Conduction Room

Phase: N

Temperature: 21 °C

Limit: FCC Class B Conduction(QP)

Power: From System

Humidity: 57 %

Mode: Config 2

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

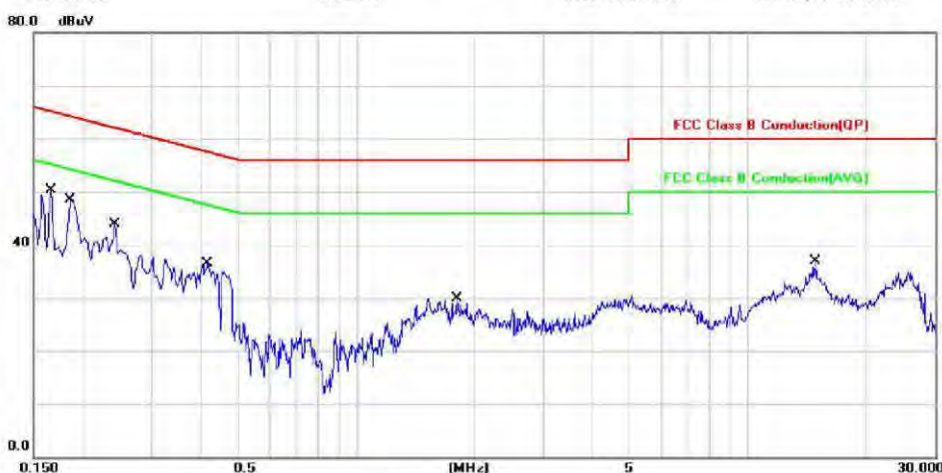
Conducted Emission

File :30235

Data :#5

Date: 2018/4/10

Time: 下午 03:01:02



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	dBuV	Factor	ment	dBuV	dB	Detector	Comment
1	*	0.1660	46.70	0.12	46.82	65.16	-18.34	QP	
2		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	

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

File :30235\Data :#5

Page: 1

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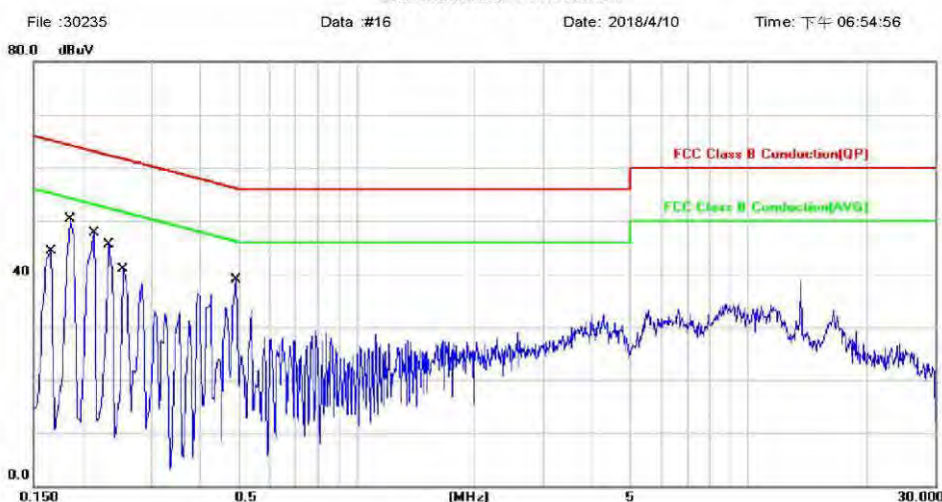
Config_3_L

Site : Conduction Room
Limit: FCC Class B Conduction(QP)
Mode: Config 3
Note: MP3

Phase: L1
Power: AC 120V/60Hz

Temperature: 21 °C
Humidity: 57 %

Conducted Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	dBuV	Factor	ment	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 l:over margin

File :30235\Data :#16

Page: 1

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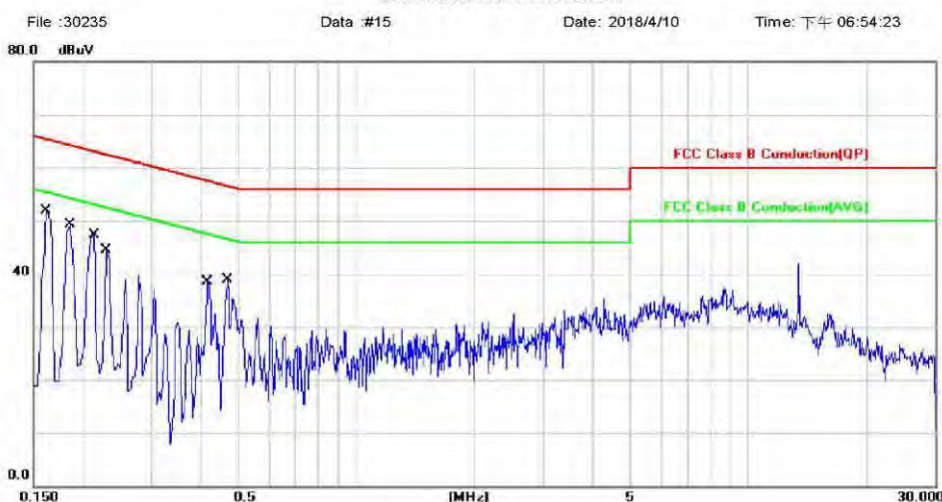
Config_3_N

Site : Conduction Room
Limit: FCC Class B Conduction(QP)
Mode: Config 3
Note: MP3

Phase: N
Power: AC 120V/60Hz

Temperature: 21 °C
Humidity: 57 %

Conducted Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	dBuV	Factor	ment	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 l:over margin

File :30235\Data :#15

Page: 1

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2.5 Test of Radiated Emission

2.5.1 Test Equipments

Below 1GHz

SGS Radiated_Below_1GHz HWAYA 10m_EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI 7	100924	2017/10/20	2018/10/19
EMI Test Receiver	R&S	ESCI 3	101343	2018/1/5	2019/1/4
Broadband Antenna	SCHWAZBECK	VULB9168	9168-628	2017/9/8	2018/9/7
Broadband Antenna	SCHWAZBECK	VULB9168	9168-629	2017/9/12	2018/9/11
Pre Amplifier	EMC Instruments Corp.	EMC330	980178	2018/3/31	2019/3/30
Pre Amplifier	EMC Instruments Corp.	EMC330	980179	2018/3/31	2019/3/30
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150917	2017/9/18	2018/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150919	2017/9/18	2018/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150820	2017/9/18	2018/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150918	2017/9/18	2018/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150821	2017/9/18	2018/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150822	2017/9/18	2018/9/17
Universal Digital Radio Communication Tester	R&S	CMU 200	119988	2018/2/22	2019/2/21
Wideband Radio Communication Tester	R&S	CMW 500	152303	2018/2/21	2019/2/20
Radio Communication Analyzer	Anritsu	MT8820C	6201465315	2017/12/10	2018/12/9
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
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 Measurement Uncertainty of Radiated Emission
 Expanded uncertainty U_{lab} (K=2) of radiated emission is 4.09 dB. (30MHz ~ 1000MHz)
 Theory values uncertainty U_{cispr} 16-4-2:2011+A1:2014 (K=2) of radiated emission is 5.22 dB. (30MHz ~ 1000MHz)

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Above 1GHz

SGS Radiated_Above_1GHz HWAYA 966B_EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	R&S	FSV 40	100979	2017/12/21	2018/12/20
EMI Test Receiver	R&S	ESR 7	101507	2017/5/27	2018/5/26
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA9120D673	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	EMC Instruments	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.

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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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2.5.2 Operating Environment

Temperature : 20 degree C

Humidity : 52 %RH

Atmospheric Pressure : 996 mBar

2.5.3 Measurement Level Calculation

Correction Factor = Antenna Factor + Cable loss- Amplifier Gain

Measurement Level = Reading Level + Correction Factor

Over (Margin) = Measurement Level – Limit

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2.5.4 Measurement Data

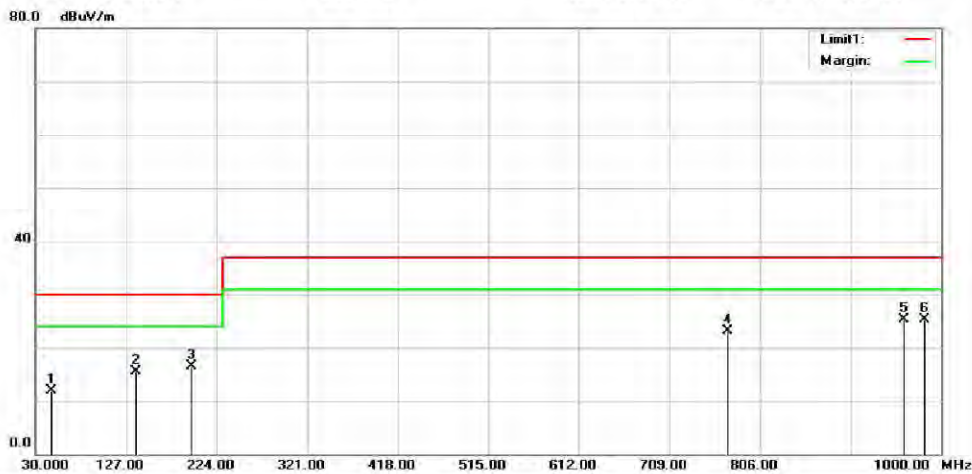
Below 1GHz

model A
Config_1_H

Site: SGS 10m Chamber	Polarization: Horizontal	Temperature: 20 °C
Limit: CISPR22 Class B 10M Radiation	Power: AC 120V/60Hz	Humidity: 52 %
Mode: Config_1	Distance: 10m	
Note: LTE B05		
1st source memory : Samsung 3-5		

Radiated Emission

File :MH-2015-30235 Data :#52 Date: 2018/4/12 Time: 下午 08:24:35



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
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		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 :over margin

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

Page: 1

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Config_1_V

Site: SGS 10m Chamber

Polarization: **Vertical**

Temperature: 20 °C

Limit: CISPR22 Class B 10M Radiation

Power: AC 120V/60Hz

Humidity: 52 %

Mode: Config_1

Distance: 10m

Note: LTE B05

1st source memory : Samsung 3-5

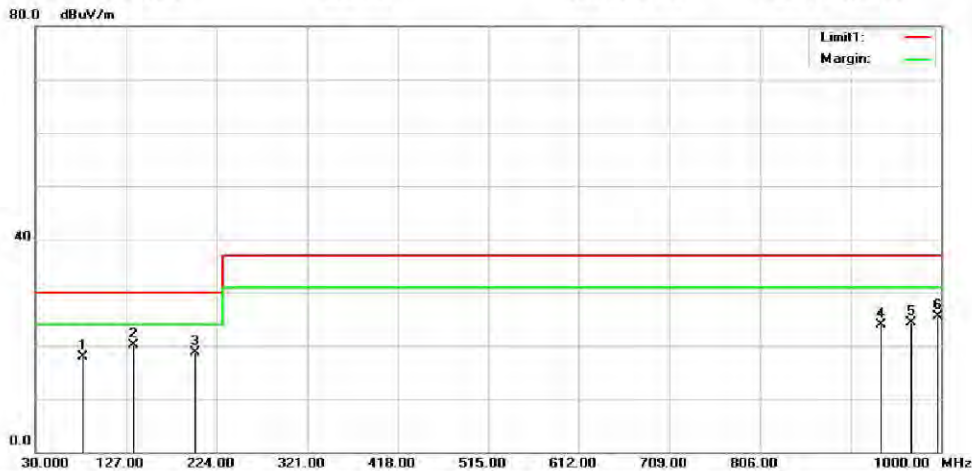
Radiated Emission

File : MH-2015-30235

Data : #51

Date: 2018/4/12

Time: 下午 08:24:33



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB/m	dBuV/m	dBuV/m	dB		
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		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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Config_2_H

Site: SGS 10m Chamber

Polarization: **Horizontal**

Temperature: 20 °C

Limit: CISPR22 Class B 10M Radiation

Power: From System

Humidity: 52 %

Mode: Config_2

Distance: 10m

Note: Data Link - Write

1st source memory : Samsung 3-5

Radiated Emission

File : MH-2015-30235

Data : #34

Date: 2018/4/12

Time: 下午 06:42:24



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	dBuV	Factor	ment	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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Config_2_V

Site: SGS 10m Chamber

Polarization: **Vertical**

Temperature: 20 °C

Limit: CISPR22 Class B 10M Radiation

Power: From System

Humidity: 52 %

Mode: Config_2

Distance: 10m

Note: Data Link - Write

1st source memory : Samsung 3-5

Radiated Emission

File : MH-2015-30235

Data : #33

Date: 2018/4/12

Time: 下午 06:42:23



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
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		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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Config_3_H

Site: SGS 10m Chamber

Polarization: *Horizontal*

Temperature: 20 °C

Limit: CISPR22 Class B 10M Radiation

Power: AC 120V/60Hz

Humidity: 52 %

Mode: Config_3

Distance: 10m

Note: REC (Back)

1st source memory : Samsung 3-5

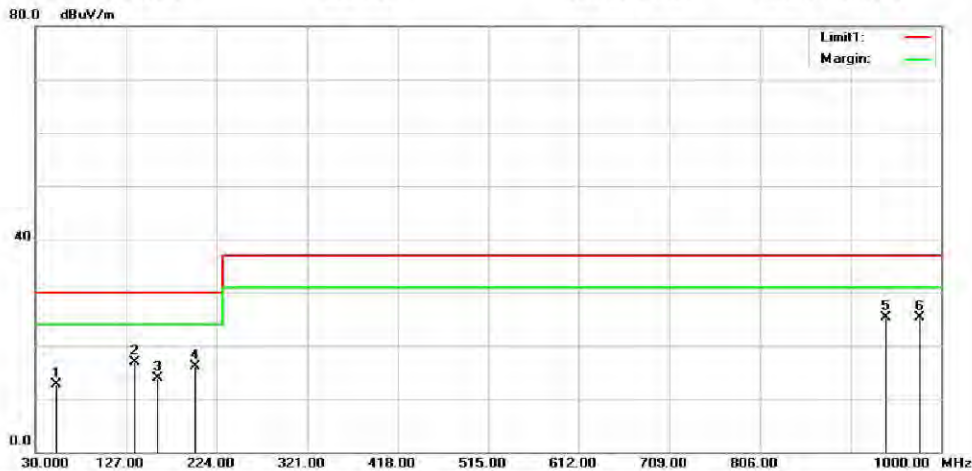
Radiated Emission

File : MH-2015-30235

Data : #28

Date: 2018/4/12

Time: 下午 05:33:13



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over 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

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Config_3_V

Site: SGS 10m Chamber

Polarization: **Vertical**

Temperature: 20 °C

Limit: CISPR22 Class B 10M Radiation

Power: AC 120V/60Hz

Humidity: 52 %

Mode: Config_3

Distance: 10m

Note: REC (Back)

1st source memory : Samsung 3-5

Radiated Emission

File : MH-2015-30235

Data : #27

Date: 2018/4/12

Time: 下午 05:33:11



No.	Mk.	Freq.	Reading	Correct	Measure-	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		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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model B

Config_1_H

Site: SGS 10m Chamber
 Limit: CISPR22 Class B 10M Radiation
 Mode: Config_1
 Note: LTE B02
 1st source memory : Micron 1-4

Polarization: *Horizontal*
 Power: AC 120V/60Hz
 Distance: 10m

Temperature: 20℃
 Humidity: 52 %

Radiated Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB/m	dBuV/m	dBuV/m	dB		
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		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

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Config_1_V

Site: SGS 10m Chamber
 Limit: CISPR22 Class B 10M Radiation
 Mode: Config_1
 Note: LTE B02
 1st source memory: Micron 1-4

Polarization: **Vertical**
 Power: AC 120V/60Hz
 Distance: 10m

Temperature: 20 °C
 Humidity: 52 %

Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over 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		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

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Config_2_H

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 %

Radiated Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	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		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

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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 %

Radiated Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	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

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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%

Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	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

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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 °C
 Humidity: 52 %

Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	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		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

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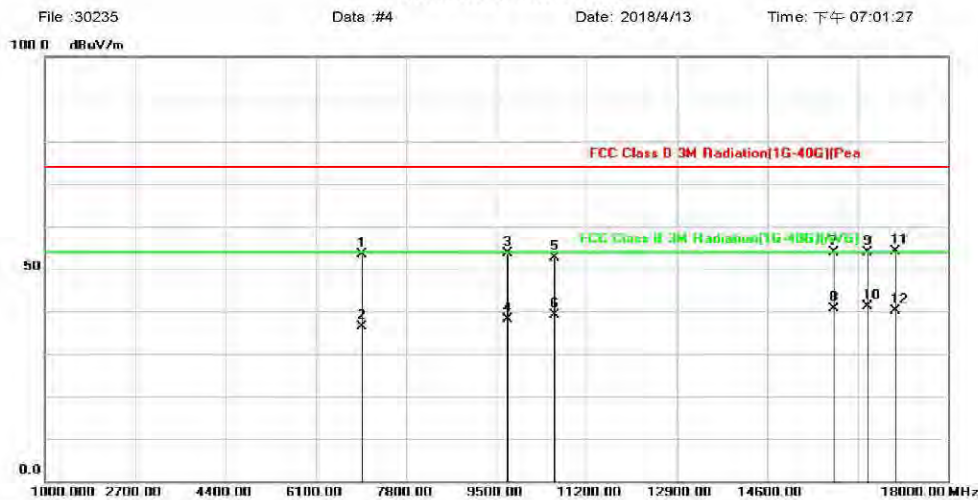


Above 1GHz

model A
1GHz-18GHz
Config_1_H

Site: SGS 966 Chamber A	Polarization: Horizontal	Temperature: 21 °C
Limit: FCC Class B 3M Radiation(1G-40G)(Pea	Power: AC 120V/60Hz	Humidity: 56 %
Mode: Config_1	Distance:	
Note: WCDMA B1		

Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over 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		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		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

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Config_1_V

Site: SGS 966 Chamber A

Polarization: **Vertical**

Temperature: 21 °C

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

Power: AC 120V/60Hz

Humidity: 56 %

Mode: Config_1

Distance:

Note: WCDMA B1

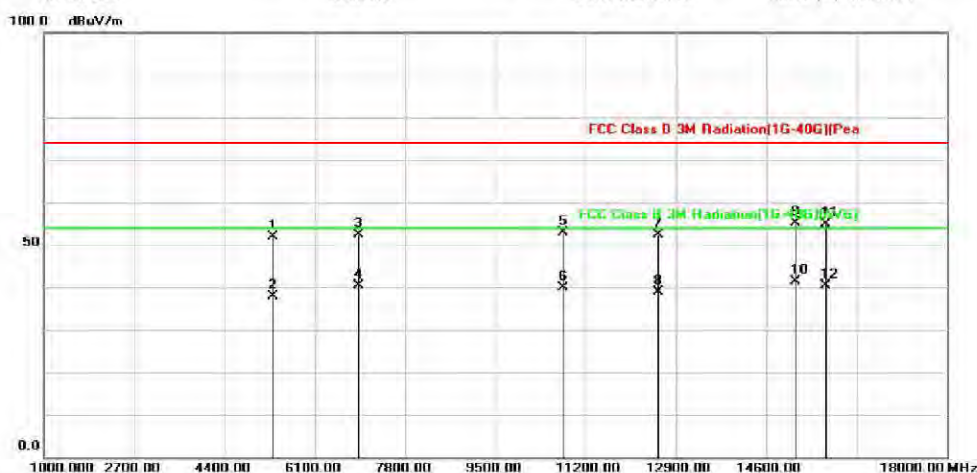
Radiated Emission

File :30235

Data :#3

Date: 2018/4/13

Time: 下午 06:54:14



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over 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		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 l:over margin

File :30235\Data :#3

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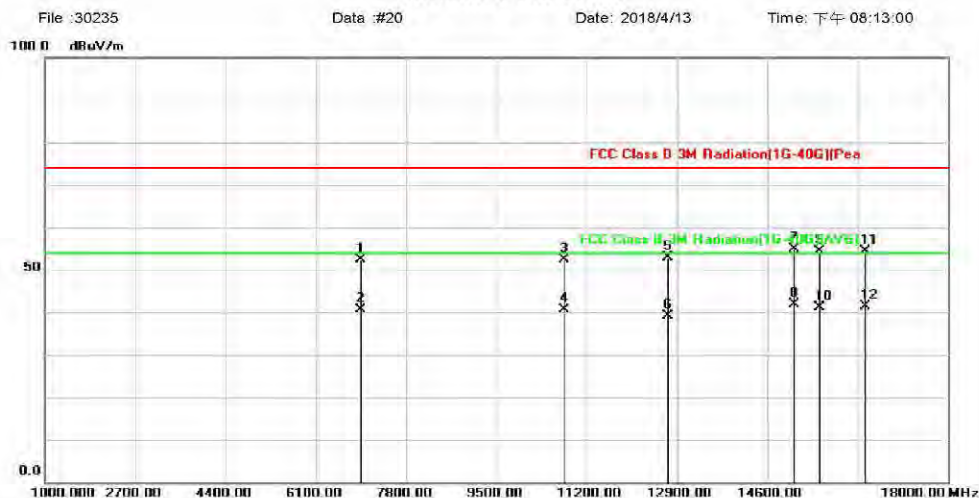
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Config_2_H

Site: SGS 966 Chamber A Polarization: **Horizontal** Temperature: 21 °C
 Limit: FCC Class B 3M Radiation(1G-40G)(Pea Power: AC 120V/60Hz Humidity: 56 %
 Mode: Config_2 Distance:
 Note: data read

Radiated Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	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 l:over margin

File :30235\Data :#20

Page: 1

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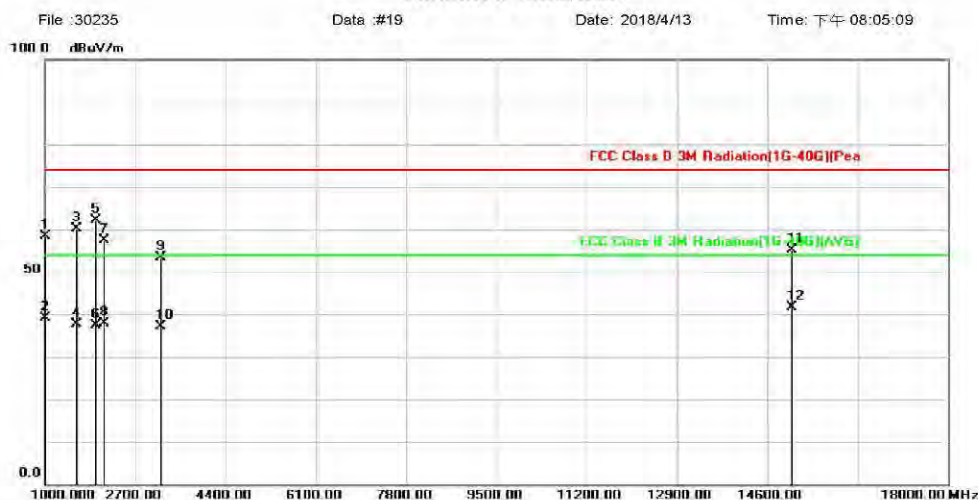
Config_2_V

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 %

Radiated Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	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 *		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	

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

File :30235\Data :#19

Page: 1

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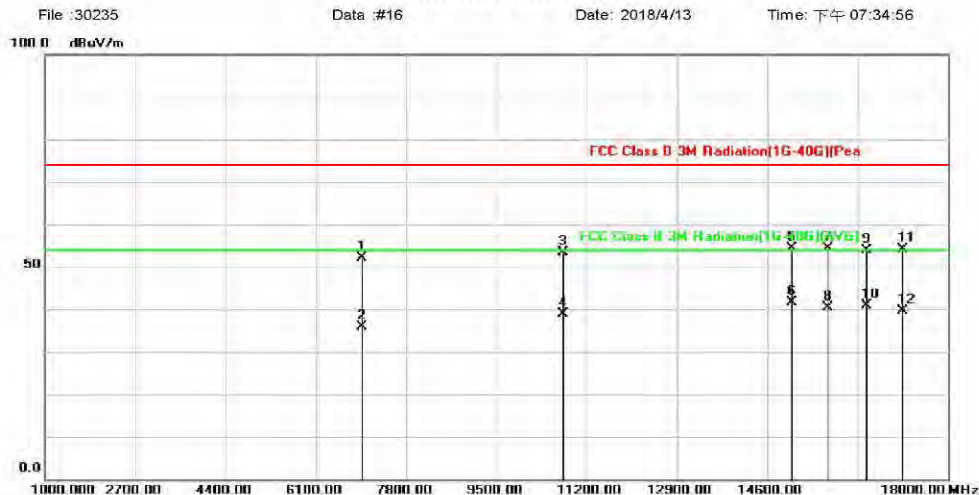
Config_3_H

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 ℃
Humidity: 56 %

Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over 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		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		17147.662	33.77	5.96	39.73	54.00	-14.27	AVG	

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

File :30235\Data :#16

Page: 1

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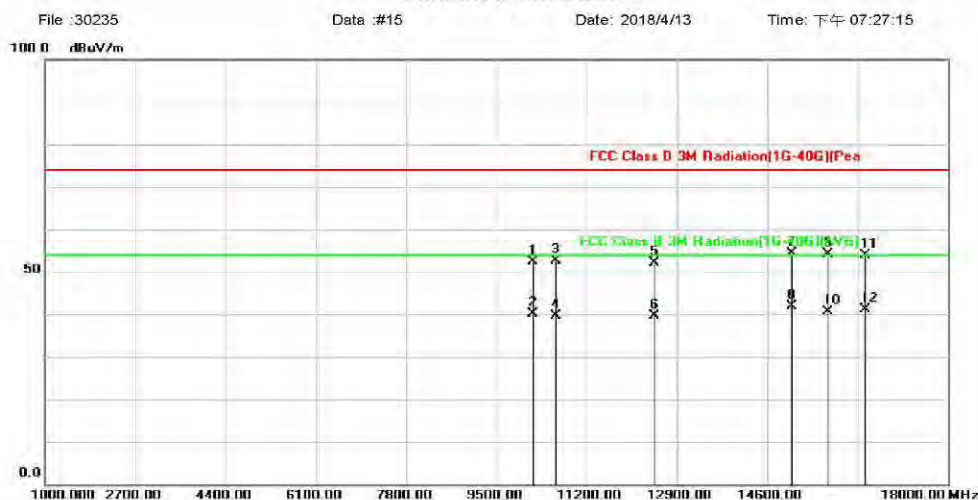
Config_3_V

Site: SGS 966 Chamber A
Limit: FCC Class B 3M Radiation(1G-40G)(Pea
Mode: Config_3
Note: REC Back

Polarization: **Vertical**
Power: AC 120V/60Hz
Distance:

Temperature: 21 °C
Humidity: 56 %

Radiated Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			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		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 l:over margin

File :30235\Data :#15

Page: 1

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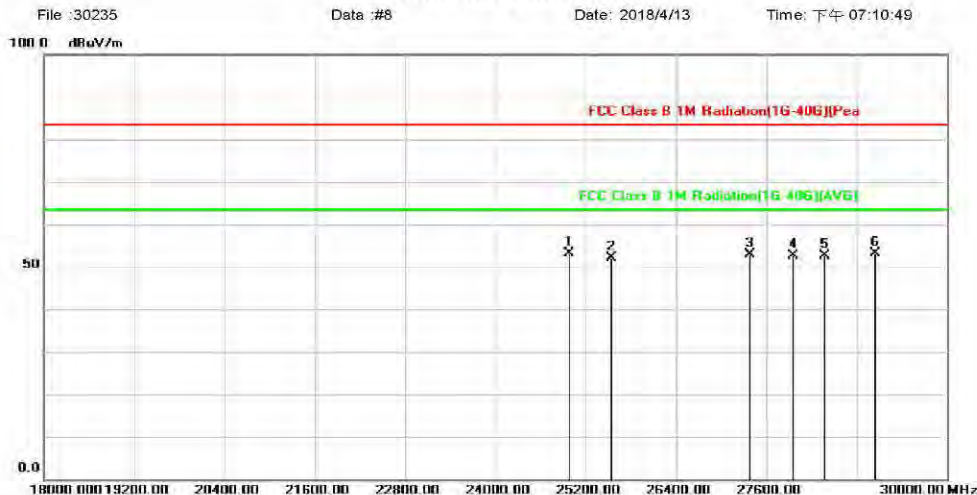
Config_1_H

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
 Distance:

Temperature: 21 °C
 Humidity: 56 %

Radiated Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			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		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		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 l:over margin

File :30235\Data :#8

Page: 1

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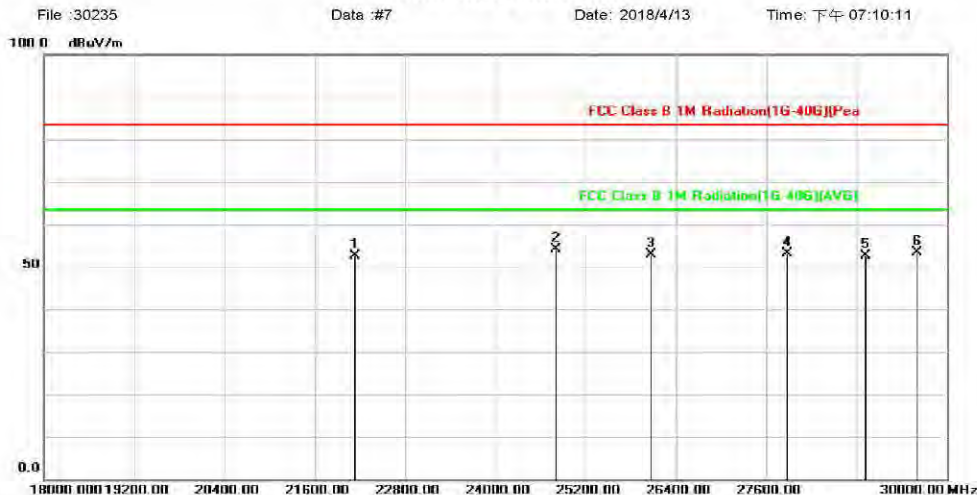
Config_1_V

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
 Distance:

Temperature: 21 °C
 Humidity: 56 %

Radiated Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB/m	dBuV/m	dBuV/m	dB		
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	

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

File :30235\Data :#7

Page: 1

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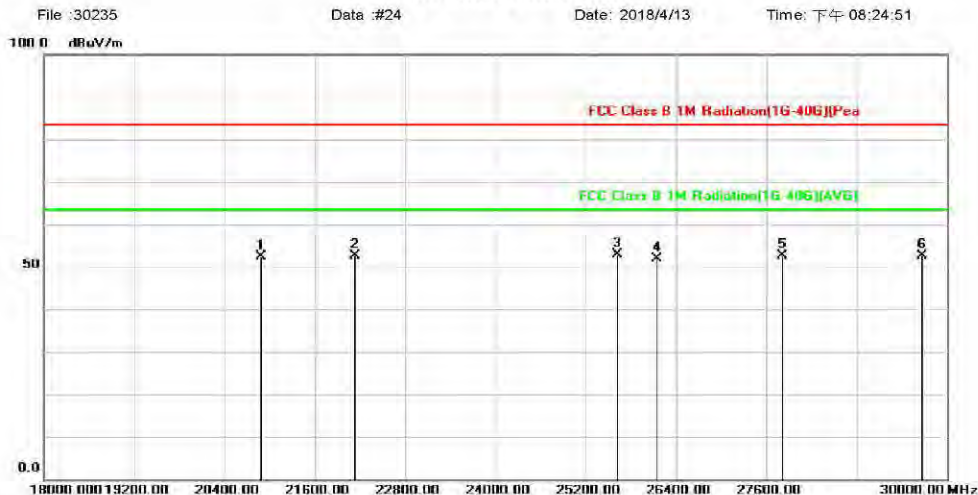
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Config_2_H

Site: SGS 966 Chamber A
 Limit: FCC Class B 1M Radiation(1G-40G)(Pea
 Mode: Config_2
 Note: data read
 Polarization: **Horizontal**
 Power: AC 120V/60Hz
 Distance:
 Temperature: 21 °C
 Humidity: 56 %

Radiated Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		20892.000	53.43	-1.11	52.32	83.50	-31.18	peak	
2		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	

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

File :30235\Data :#24

Page: 1

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Config_2_V

Site: SGS 966 Chamber A

Polarization: **Vertical**

Temperature: 21 °C

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

Power: AC 120V/60Hz

Humidity: 56 %

Mode: Config_2

Distance:

Note: data read

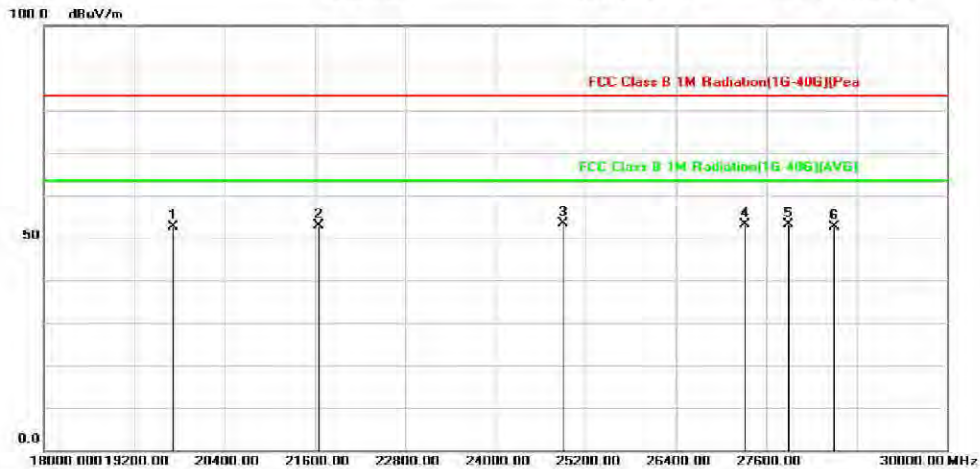
Radiated Emission

File :30235

Data :#23

Date: 2018/4/13

Time: 下午 08:24:26



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		19716.000	54.15	-1.46	52.69	83.50	-30.81	peak	
2		21648.000	52.17	0.75	52.92	83.50	-30.58	peak	
3 *		24900.000	50.81	2.56	53.37	83.50	-30.13	peak	
4		27312.000	51.19	1.97	53.16	83.50	-30.34	peak	
5		27888.000	51.21	1.98	53.19	83.50	-30.31	peak	
6		28500.000	50.82	1.80	52.62	83.50	-30.88	peak	

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

File :30235\Data :#23

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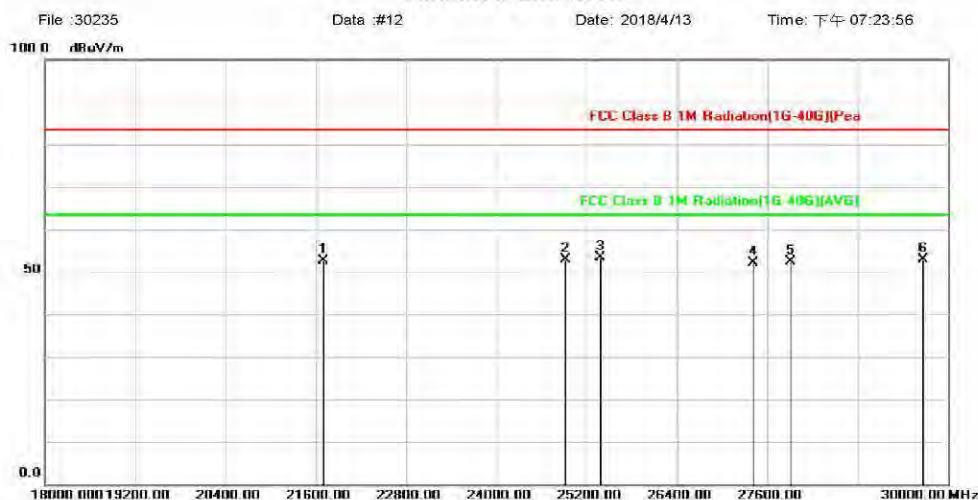
Config_3_H

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 %

Radiated Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	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		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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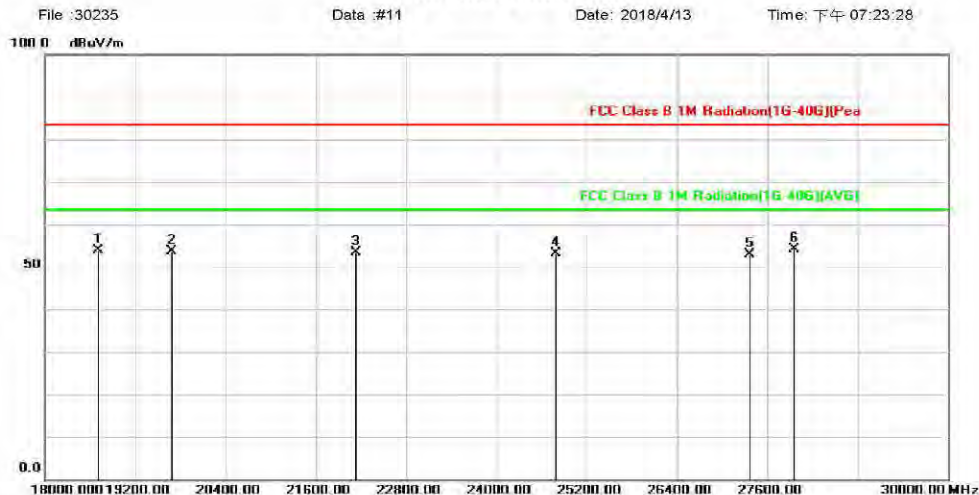
Config_3_V

Site: SGS 966 Chamber A
 Limit: FCC Class B 1M Radiation(1G-40G)(Pea
 Mode: Config_3
 Note: REC Back

Polarization: **Vertical**
 Power: AC 120V/60Hz
 Distance:

Temperature: 21 °C
 Humidity: 56 %

Radiated Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	dBuV	Factor	ment			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		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		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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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
Distance:

Temperature: 22 °C
Humidity: 66 %

Radiated Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB/m	dBuV/m	dBuV/m	dB		
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		10673.000	53.08	2.72	55.80	74.00	-18.20	peak	
4		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		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		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	

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

File :30239\Data :#26

Page: 1

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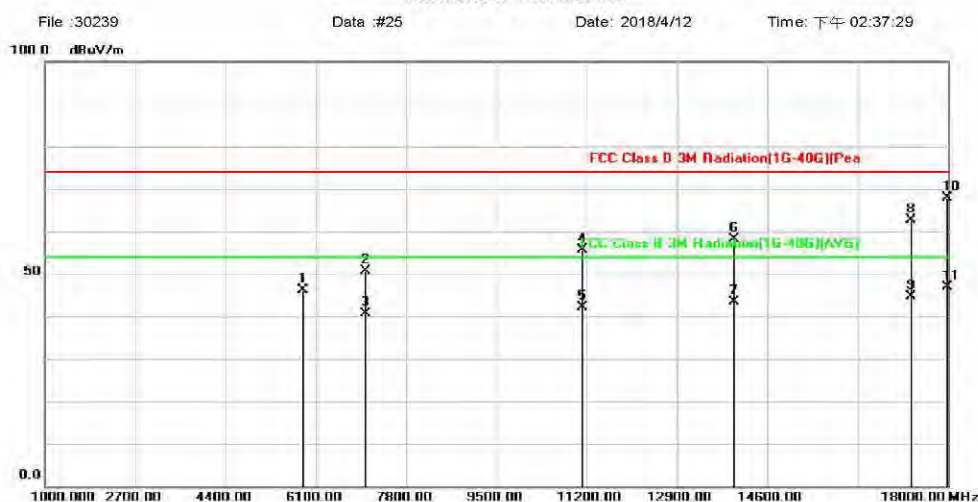
Config_1_V

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: 22 ℃
 Humidity: 66 %

Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over 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		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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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:

Temperature: 22℃
 Humidity: 66%

Radiated Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	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		13920.000	35.15	8.52	43.67	54.00	-10.33	AVG	
9		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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Config_2_V

Site: SGS 966 Chamber B

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

Mode: Config 2

Note: Data Read

Polarization: **Vertical**

Power: AC 120V/60Hz

Distance:

Temperature: 22℃

Humidity: 66 %

Radiated Emission

File :30239

Data :#15

Date: 2018/4/12

Time: 下午 02:49:01



No.	Mk.	Freq.	Reading	Correct	Measure-	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	

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

File :30239\Data :#15

Page: 1

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Config_3_H

Site: SGS 966 Chamber B

Polarization: **Horizontal**

Temperature: 22 ℃

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

Power: AC 120V/60Hz

Humidity: 66 %

Mode: Config 3

Distance:

Note: REC BACK

Radiated Emission

File :30239

Data :#18

Date: 2018/4/12

Time: 下午 03:24:50



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over 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		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 l:over margin

File :30239\Data :#18

Page: 1

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Config_3_V

Site: SGS 966 Chamber B

Polarization: **Vertical**

Temperature: 22 °C

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

Power: AC 120V/60Hz

Humidity: 66 %

Mode: Config 3

Distance:

Note: REC BACK

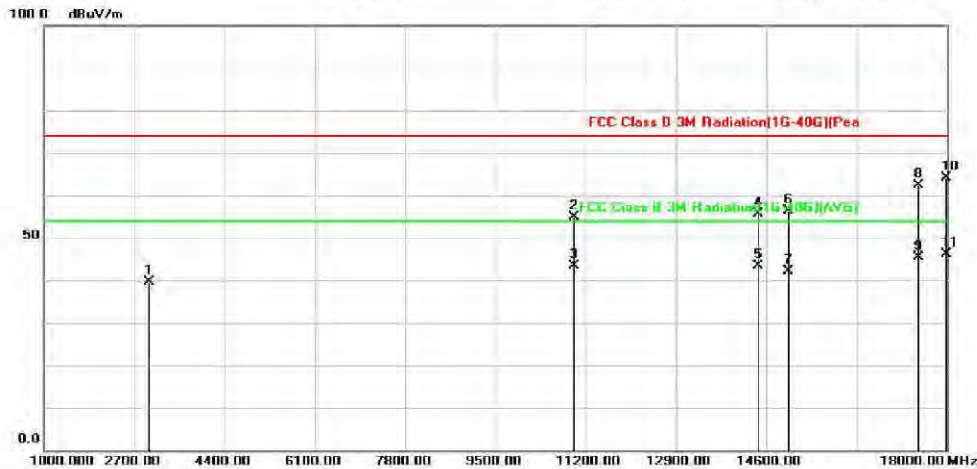
Radiated Emission

File :30239

Data :#17

Date: 2018/4/12

Time: 下午 03:17:28



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB/m	dBuV/m	dBuV/m	dB		
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		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		17456.000	51.34	11.12	62.46	74.00	-11.54	peak	
9		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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18GHz~30GHz

Config_1_H

Site :SGS 966 Chamber B

Polarization: **Horizontal**

Temperature: 22 ℃

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

Power: AC 120V/60Hz

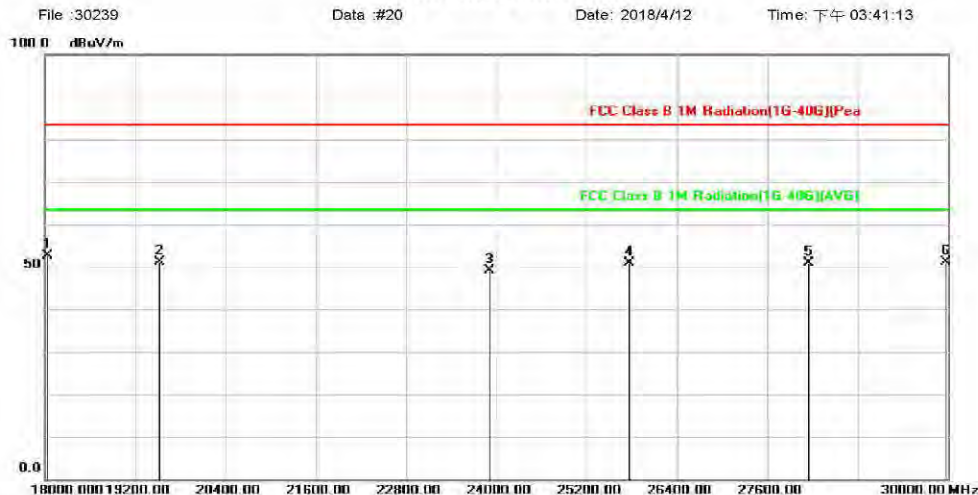
Humidity: 66 %

Mode: Config 1

Distance:

Note: WCDMA B2

Radiated Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	*	18044.118	54.32	-1.59	52.73	83.50	-30.77	peak	
2		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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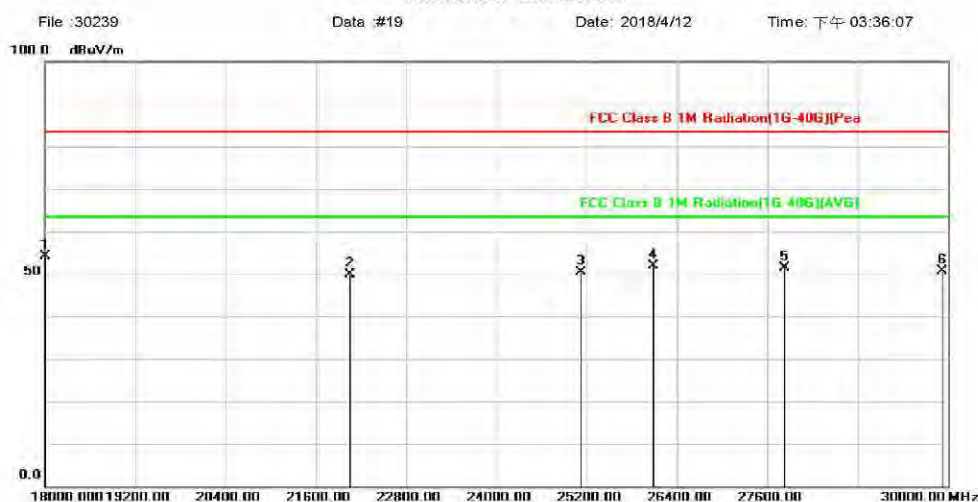
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Config_1_V

Site: SGS 966 Chamber B Polarization: **Vertical** Temperature: 22 ℃
 Limit: FCC Class B 1M Radiation(1G-40G)(Pea Power: AC 120V/60Hz Humidity: 66 %
 Mode: Config 1 Distance:
 Note: WCDMA B2

Radiated Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB/m	dBuV/m	dBuV/m	dB		
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		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		29933.823	48.60	2.13	50.73	83.50	-32.77	peak	

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

File :30239\Data :#19

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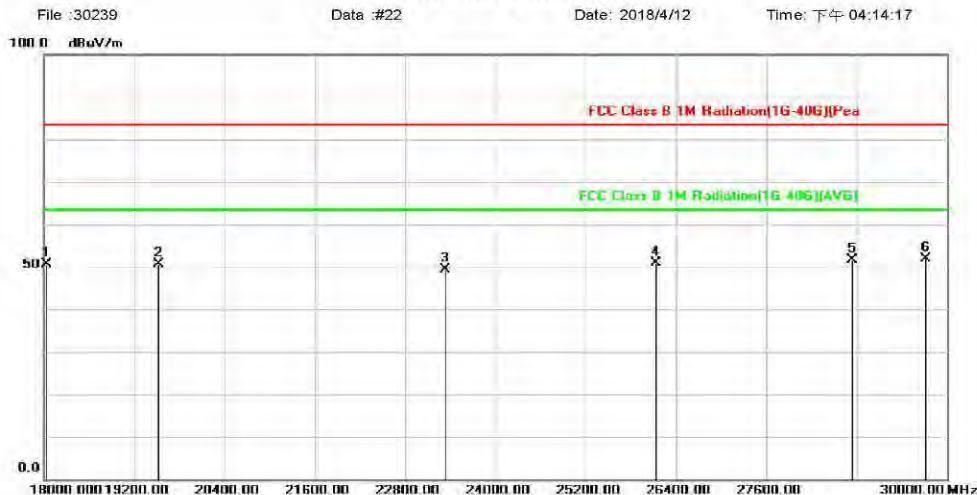
Config_2_H

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
 Distance:

Temperature: 22 ℃
 Humidity: 66 %

Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over 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		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		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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Config_2_V

Site :SGS 966 Chamber B

Polarization: **Vertical**

Temperature: 22 ℃

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

Power: AC 120V/60Hz

Humidity: 66 %

Mode: Config 2

Distance:

Note: Data Read

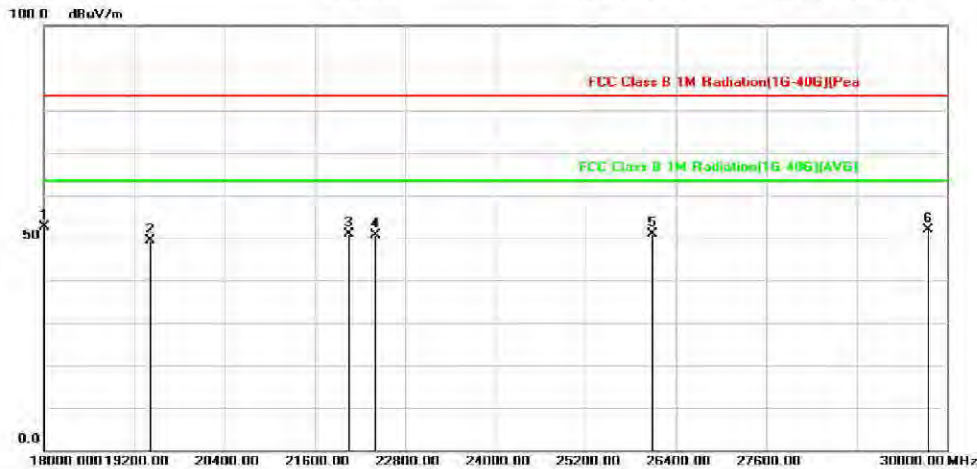
Radiated Emission

File :30239

Data :#21

Date: 2018/4/12

Time: 下午 03:58:20



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB/m	dBuV/m	dBuV/m	dB		
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		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		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 !:over margin

File :30239\Data :#21

Page: 1

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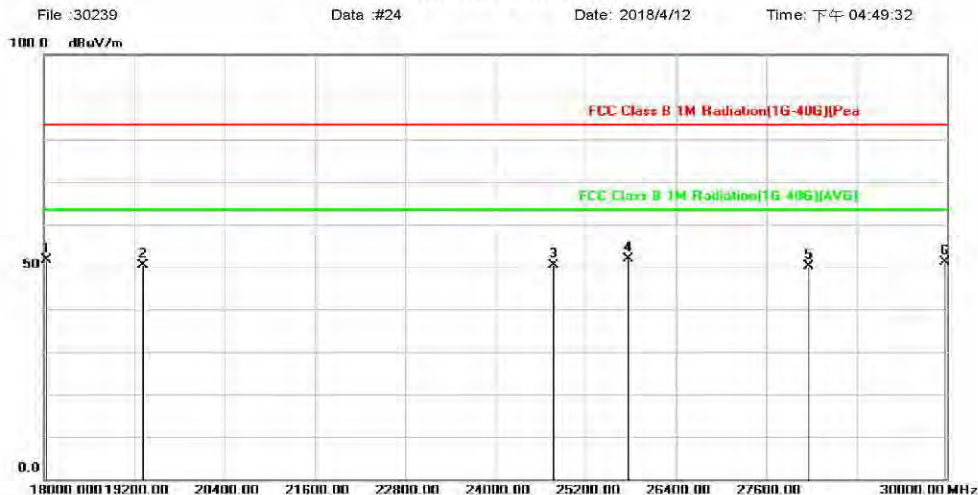
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Config_3_H

Site: SGS 966 Chamber B Polarization: **Horizontal** Temperature: 22 ℃
 Limit: FCC Class B 1M Radiation(1G-40G)(Pea Power: AC 120V/60Hz Humidity: 66 %
 Mode: Config 3 Distance:
 Note: REC BACK

Radiated Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	dBuV	Factor	ment			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		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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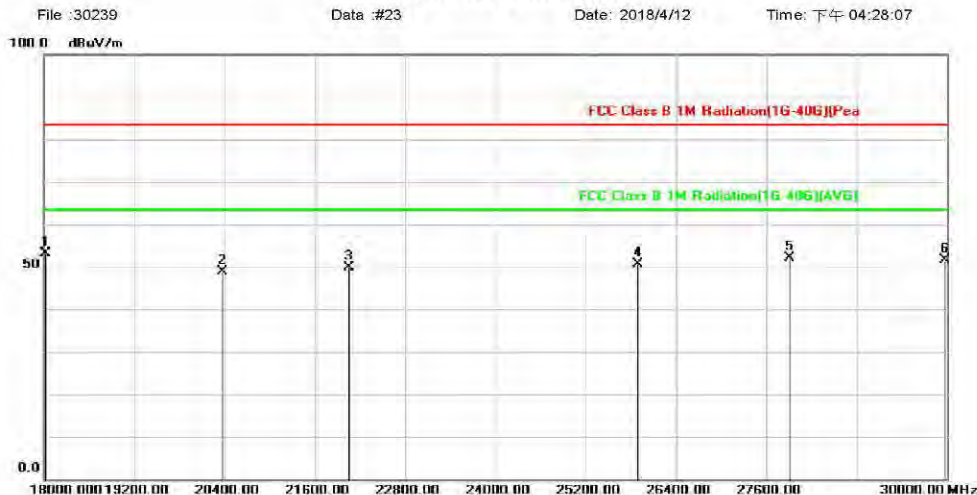
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Config_3_V

Site: SGS 966 Chamber B	Polarization: Vertical	Temperature: 22 °C
Limit: FCC Class B 1M Radiation(1G-40G)(Pea	Power: AC 120V/60Hz	Humidity: 66 %
Mode: Config 3	Distance:	
Note: REC BACK		

Radiated Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	dBuV	Factor	ment			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		27904.412	50.18	1.98	52.16	83.50	-31.34	peak	
6		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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