

FCC CERTIFICATION REPORT

Test Report No. : MH/2018/30036
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. 07, 2018
Date of Test : Mar. 07 ~ Apr. 02, 2018
Date of Issue : Apr. 24, 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. 24, 2018

Thomas Liu (Engineer)

Approved By

Eddy Cheng

Date

Apr. 24, 2018

Eddy Cheng (Asst. Supervisor)



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Revision History

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

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1. General Information

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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.: UBATIA286AFN2
Supplier: SCUD(FUJIAN) Electronics Co., Ltd.
3.85V, 3130mAh
Worst case : CE, Below RE worst case : Config 2
Above RE worst case : Config 3

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

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

1.4 Operation Procedure

Config 1

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

Config 2

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

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Config 3

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

1.5 Description of Support Units

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

Support Equipment Used in Tested Cable

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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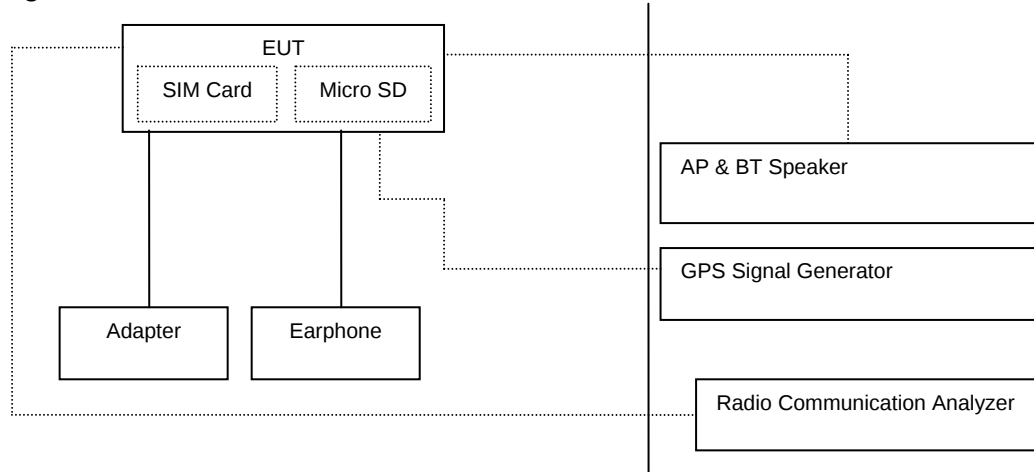
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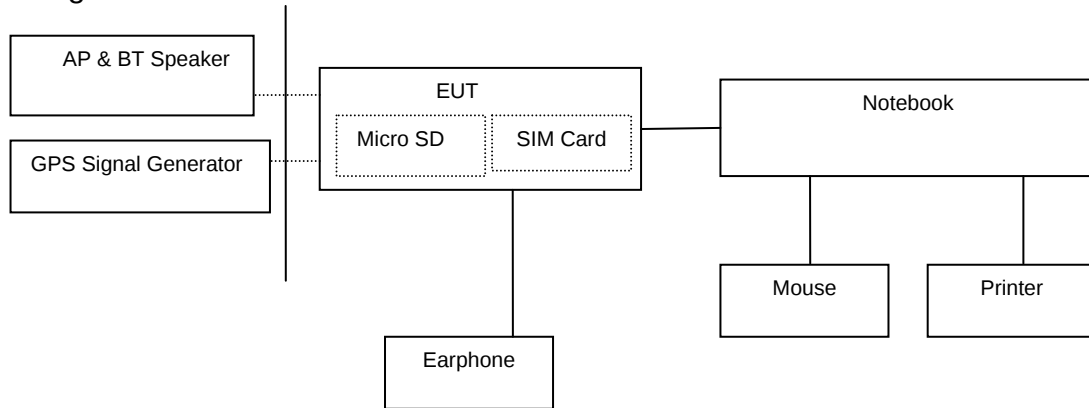
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1.8 Test Set-Up Configuration

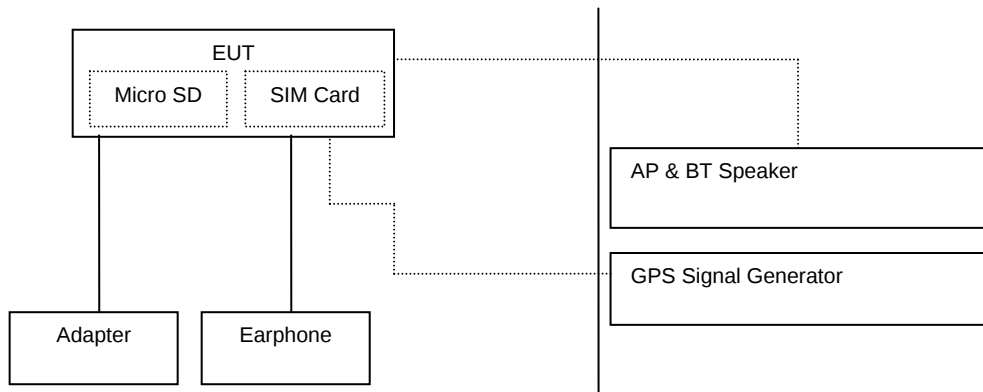
Config 1



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	0.1780	-18.45 (QP)
			Neutral	0.1700	-15.54 (QP)
	Radiated Emission	PASS	Ver.	480.0000	-6.88 (QP)

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2. EMISSION

2.1 Test Results

	Results
Conducted Emission	Pass
Radiated Emission	Pass

2.2 Frequency Range

FCC Part 15, Subpart B:

Conducted Emission : 150 kHz - 30 MHz

Radiated Emission : See below table

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

Below 1.705	30
1.705 - 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 Ulab(K=2) of conducted emission is 2.25 dB Theory values uncertainty Ucispr 16-4-2 :2011+A1_2014 (K=2) of AC mains conducted Emission is 3.44dB					

2.4.2 Operating Environment

Temperature : 21 degree C

Humidity : 60 %RH

Atmospheric Pressure : 992 mBar

2.4.3 Measurement Level Calculation

Factor = LISN insertion loss + Cable loss + Pulse Limiter Insertion Loss

Measurement Level = Reading Level + Factor

Over (Margin) = Measurement Level – Limit

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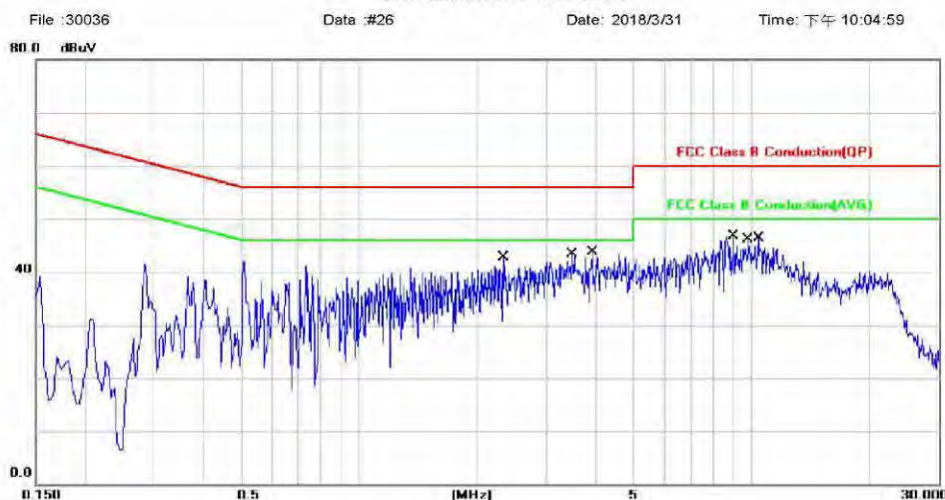


2.4.4 Measurement Data:

Config_1_L

Site : Conduction Room Phase: **L1** Temperature: 21 °C
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 60 %
 Mode: Config_1
 Note: LTE B4 Link

Conducted Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	dBuV	Factor	ment	dBuV	dB	Detector	Comment
1		2.3340	35.40	0.26	35.66	56.00	-20.34	QP	
2		2.3340	25.40	0.26	25.66	46.00	-20.34	AVG	
3		3.5020	36.12	0.35	36.47	56.00	-19.53	QP	
4		3.5020	27.04	0.35	27.39	46.00	-18.61	AVG	
5		3.9300	37.02	0.38	37.40	56.00	-18.60	QP	
6 *		3.9300	27.30	0.38	27.68	46.00	-18.32	AVG	
7		9.0460	37.96	0.64	38.60	60.00	-21.40	QP	
8		9.0460	28.17	0.64	28.81	50.00	-21.19	AVG	
9		9.8580	38.90	0.69	39.59	60.00	-20.41	QP	
10		9.8580	28.00	0.69	28.69	50.00	-21.31	AVG	
11		10.4100	38.03	0.69	38.72	60.00	-21.28	QP	
12		10.4100	27.54	0.69	28.23	50.00	-21.77	AVG	

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

File :30036\Data :#26

Page: 1

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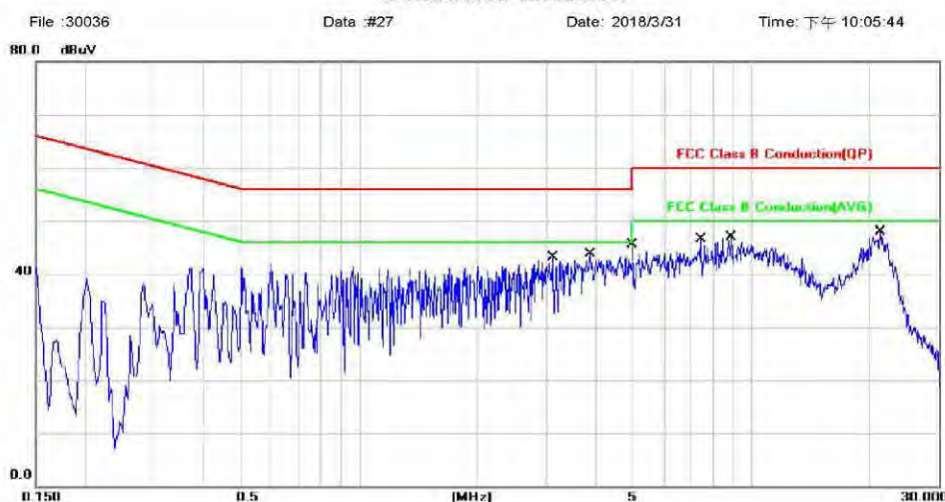
Config_1_N

Site : Conduction Room
Limit: FCC Class B Conduction(QP)
Mode: Config_1
Note: LTE B4 Link

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

Temperature: 21 °C
Humidity: 60 %

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		3.1100	37.36	0.26	37.62	56.00	-18.38	QP	
2		3.1100	27.07	0.26	27.33	46.00	-18.67	AVG	
3 *		3.8860	37.44	0.27	37.71	56.00	-18.29	QP	
4		3.8860	27.20	0.27	27.47	46.00	-18.53	AVG	
5		4.9860	36.66	0.29	36.95	56.00	-19.05	QP	
6		4.9860	26.67	0.29	26.96	46.00	-19.04	AVG	
7		7.4100	39.55	0.38	39.93	60.00	-20.07	QP	
8		7.4100	29.07	0.38	29.45	50.00	-20.55	AVG	
9		8.8820	39.22	0.43	39.65	60.00	-20.35	QP	
10		8.8820	29.21	0.43	29.64	50.00	-20.36	AVG	
11		21.3140	40.85	0.77	41.62	60.00	-18.38	QP	
12		21.3140	28.31	0.77	29.08	50.00	-20.92	AVG	

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

File :30036\Data :#27

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: 63 %

Mode: Config 2

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

Conducted Emission

File :30036

Data :#5

Date: 2018/3/28

Time: 下午 03:53:50



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	dBuV	Factor	ment	dBuV	dB	Detector	Comment
1	*	0.1780	46.10	0.03	46.13	64.58	-18.45	QP	
2		0.1780	28.80	0.03	28.83	54.58	-25.75	AVG	
3		0.2220	38.90	0.03	38.93	62.74	-23.81	QP	
4		0.2220	25.30	0.03	25.33	52.74	-27.41	AVG	
5		0.2740	36.70	0.03	36.73	61.00	-24.27	QP	
6		0.2740	22.50	0.03	22.53	51.00	-28.47	AVG	
7		0.4380	34.30	0.04	34.34	57.10	-22.76	QP	
8		0.4380	21.30	0.04	21.34	47.10	-25.76	AVG	
9		1.5100	28.30	0.16	28.46	56.00	-27.54	QP	
10		1.5100	21.10	0.16	21.26	46.00	-24.74	AVG	
11		4.0300	24.50	0.38	24.88	56.00	-31.12	QP	
12		4.0300	18.00	0.38	18.38	46.00	-27.62	AVG	

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

File :30036\Data :#5

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: 63 %

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		0.1540	47.70	0.12	47.82	65.78	-17.96	QP	
2		0.1540	27.10	0.12	27.22	55.78	-28.56	AVG	
3 *		0.1700	49.30	0.12	49.42	64.96	-15.54	QP	
4		0.1700	35.30	0.12	35.42	54.96	-19.54	AVG	
5		0.2180	41.70	0.11	41.81	62.89	-21.08	QP	
6		0.2180	28.70	0.11	28.81	52.89	-24.08	AVG	
7		0.2500	39.30	0.11	39.41	61.76	-22.35	QP	
8		0.2500	27.60	0.11	27.71	51.76	-24.05	AVG	
9		0.3900	30.90	0.12	31.02	58.06	-27.04	QP	
10		0.3900	22.50	0.12	22.62	48.06	-25.44	AVG	
11		25.8180	30.40	0.88	31.28	60.00	-28.72	QP	
12		25.8180	23.10	0.88	23.98	50.00	-26.02	AVG	

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

File :30036\Data :#6

Page: 1

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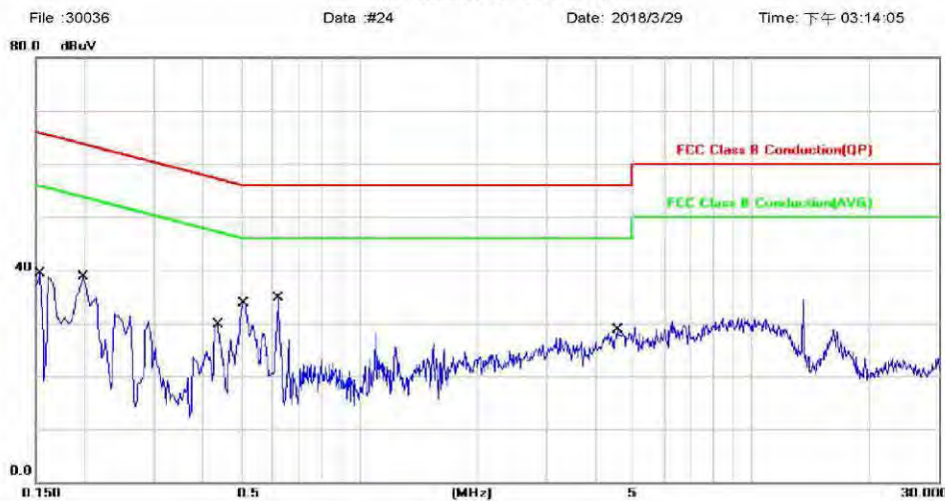
Config_3_L

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

Phase: L1
Power: AC 120V/60Hz

Temperature: 19 °C
Humidity: 70 %

Conducted Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	dBuV	Factor	ment	dBuV	dB	Detector	Comment
1		0.1540	36.30	0.04	36.34	65.78	-29.44	QP	
2		0.1540	17.30	0.04	17.34	55.78	-38.44	AVG	
3		0.1980	32.60	0.03	32.63	63.69	-31.06	QP	
4		0.1980	16.30	0.03	16.33	53.69	-37.36	AVG	
5 *		0.4380	29.90	0.04	29.94	57.10	-27.16	QP	
6		0.4380	17.10	0.04	17.14	47.10	-29.96	AVG	
7		0.5100	27.60	0.05	27.65	56.00	-28.35	QP	
8		0.5100	16.20	0.05	16.25	46.00	-29.75	AVG	
9		0.6260	22.70	0.05	22.75	56.00	-33.25	QP	
10		0.6260	13.90	0.05	13.95	46.00	-32.05	AVG	
11		4.5580	25.20	0.40	25.60	56.00	-30.40	QP	
12		4.5580	14.30	0.40	14.70	46.00	-31.30	AVG	

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

File :30036\Data :#24

Page: 1

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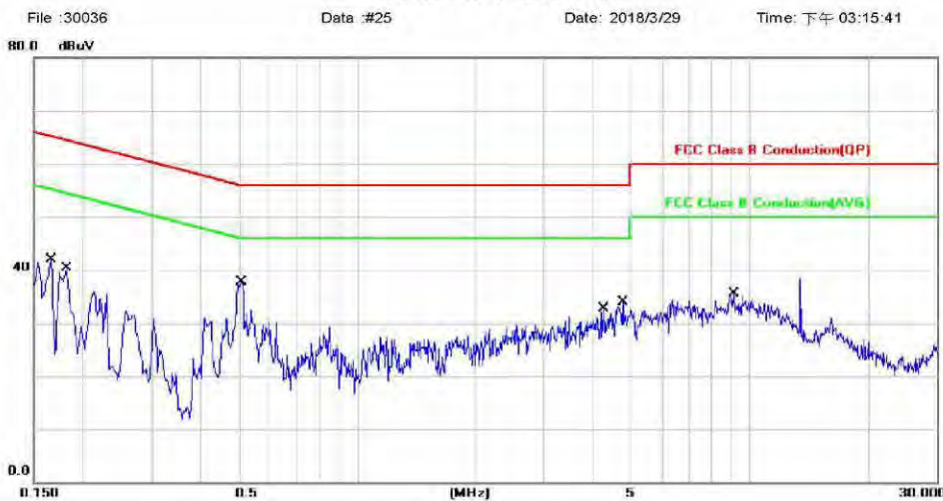
Config_3_N

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

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

Temperature: 19 °C
Humidity: 70 %

Conducted Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	dBuV	Factor	ment	dBuV	dB	Detector	Comment
1		0.1660	38.90	0.12	39.02	65.16	-26.14	QP	
2		0.1660	21.50	0.12	21.62	55.16	-33.54	AVG	
3		0.1820	36.10	0.11	36.21	64.39	-28.18	QP	
4		0.1820	20.40	0.11	20.51	54.39	-33.88	AVG	
5		0.5100	33.90	0.12	34.02	56.00	-21.98	QP	
6	*	0.5100	27.20	0.12	27.32	46.00	-18.68	AVG	
7		4.2660	27.10	0.27	27.37	56.00	-28.63	QP	
8		4.2660	20.00	0.27	20.27	46.00	-25.73	AVG	
9		4.7620	25.70	0.28	25.98	56.00	-30.02	QP	
10		4.7620	15.90	0.28	16.18	46.00	-29.82	AVG	
11		9.1260	30.00	0.44	30.44	60.00	-29.56	QP	
12		9.1260	16.50	0.44	16.94	50.00	-33.06	AVG	

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

File :30036\Data :#25

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
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Site NSA	Chance Most	10M Chamber	10M SAC	2017/12/31	2018/12/30
Test S/W	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

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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 966A EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	R&S	FSV 40	100979	2017/12/21	2018/12/20
EMI Test Receiver	R&S	ESR 7	101459	2018/2/21	2019/2/20
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA9120D673	2017/10/16	2018/10/15
Horn Antenna	Schwarzbeck	BBHA9170	BBHA9170-184	2017/12/12	2018/12/11
Pre Amplifier	EMC Instruments Corp.	EMC012645B	980216	2017/4/25	2018/4/24
Pre Amplifier	EMC Instruments Corp.	EMC184045B	980135	2017/10/27	2018/10/26
Coaxial Cable	JUNFLOW	MWX221-NMSNMS	J0778929	2017/4/23	2018/4/22
Coaxial Cable	Huber+Suhner	SUCCOFLEX 104PEA	30255/4PEA	2017/4/23	2018/4/22
Coaxial Cable	EMC Instruments	EMC104-SM-SM	140927	2017/4/23	2018/4/22
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	MY 2152/2	2017/6/5	2018/6/4
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	MY 2153/2	2017/6/5	2018/6/4
Universal Digital Radio Communication Tester	R&S	CMU 200	119988	2018/2/22	2019/2/21
Wideband Radio Communication Tester	R&S	CMW 500	152303	2018/2/21	2019/2/20
Controller	MF	MF-7802	N.C.R.	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Site VSWR	SGS	966 Chamber A	SAC-A	2018/1/12	2019/1/11
Test S/W	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

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 5.05 dB. (1-6GHz)

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

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

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

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

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

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

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

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

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

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

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

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2.5.2 Operating Environment

Temperature : 20 degree C

Humidity : 52 %RH

Atmospheric Pressure : 996 mBar

2.5.3 Measurement Level Calculation

Correction Factor = Antenna Factor + Cable loss- Amplifier Gain

Measurement Level = Reading Level + Correction Factor

Over (Margin) = Measurement Level – Limit

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2.5.4 Measurement Data

Below 1GHz

Config_1_H

Site: SGS 10m Chamber
Limit: CISPR22 Class B 10M Radiation
Mode: Config_1
Note: (1st source of memory) 3-4
WCDMA BIV

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

Temperature: 20 °C
Humidity: 52 %

Radiated Emission

File: MW-2018-30036 Data: #58 Date: 2018/3/31 Time: 上午 01:14:21



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		49.4000	23.33	-11.10	12.23	30.00	-17.77	QP	
2		137.6700	27.98	-12.09	15.89	30.00	-14.11	QP	
3		169.6800	25.61	-11.20	14.41	30.00	-15.59	QP	
4		780.7800	23.61	-0.32	23.29	37.00	-13.71	QP	
5		858.3800	23.54	0.18	23.72	37.00	-13.28	QP	
6 *		947.6200	23.34	1.65	24.99	37.00	-12.01	QP	

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

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

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Config_1_V

Site: SGS 10m Chamber
 Limit: CISPR22 Class B 10M Radiation
 Mode: Config_1
 Note: (1st source of memory) 3-4
 WCDMA BIV

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

Temperature: 20 °C
 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		54.2500	24.12	-11.05	13.07	30.00	-16.93	QP	
2		137.6700	26.93	-11.69	15.24	30.00	-14.76	QP	
3 *		194.9000	32.69	-13.95	18.74	30.00	-11.26	QP	
4		807.9400	22.80	-0.08	22.72	37.00	-14.28	QP	
5		910.7600	22.68	0.86	23.54	37.00	-13.46	QP	
6		960.2300	22.76	1.20	23.96	37.00	-13.04	QP	

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

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

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Config_2_H

Site: SGS 10m Chamber
Limit: CISPR22 Class B 10M Radiation
Mode: Config_2
Note: (1st source of memory) 3-4
Data Link (Read)

Polarization: **Horizontal**
Power: From System
Distance: 10m

Temperature: 20 °C
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		41.6400	24.20	-11.37	12.83	30.00	-17.17	QP	
2		147.3700	24.69	-11.71	12.98	30.00	-17.02	QP	
3		172.5900	24.35	-11.48	12.87	30.00	-17.13	QP	
4	*	480.0020	32.73	-5.54	27.19	37.00	-9.81	QP	
5		838.0100	24.68	0.03	24.71	37.00	-12.29	QP	
6		953.4400	23.38	1.69	25.07	37.00	-11.93	QP	

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

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

Page: 1

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Config_2_V

Site: SGS 10m Chamber
Limit: CISPR22 Class B 10M Radiation
Mode: Config_2
Note: (1st source of memory) 3-4
Data Link (Read)

Polarization: **Vertical**
Power: From System
Distance: 10m

Temperature: 20 °C
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		45.4800	25.55	-10.84	14.71	30.00	-15.29	QP	
2		168.0200	29.28	-11.68	17.60	30.00	-12.40	QP	
3		261.1180	36.91	-11.91	25.00	37.00	-12.00	QP	
4	*	480.0000	35.84	-5.72	30.12	37.00	-6.88	QP	
5		756.8800	22.57	-0.18	22.39	37.00	-14.61	QP	
6		973.8100	22.61	1.34	23.95	37.00	-13.05	QP	

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

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

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Config_3_H

Site: SGS 10m Chamber
Limit: CISPR22 Class B 10M Radiation
Mode: Config_3
Note: (1st source of memory) 3-4
REC mode (Front)

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

Temperature: 20 °C
Humidity: 52 %

Radiated Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
1		51.3400	23.95	-11.21	12.74	30.00	-17.26	QP	
2	*	137.0800	31.24	-12.11	19.13	30.00	-10.87	QP	
3		167.7400	27.30	-11.20	16.10	30.00	-13.90	QP	
4		909.7900	23.53	0.82	24.35	37.00	-12.65	QP	
5		942.7700	23.47	1.54	25.01	37.00	-11.99	QP	
6		974.7800	23.78	1.65	25.43	37.00	-11.57	QP	

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

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

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Config_3_V

Site: SGS 10m Chamber
Limit: CISPR22 Class B 10M Radiation
Mode: Config_3
Note: (1st source of memory) 3-4
REC mode (Front)

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

Temperature: 20 °C
Humidity: 52 %

Radiated Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
1		43.5800	24.04	-11.00	13.04	30.00	-16.96	QP	
2		82.5600	32.84	-16.45	16.39	30.00	-13.61	QP	
3		137.7000	30.60	-11.68	18.92	30.00	-11.08	QP	
4	*	201.1200	33.87	-14.31	19.56	30.00	-10.44	QP	
5		919.4900	22.70	0.92	23.62	37.00	-13.38	QP	
6		993.2100	23.04	1.54	24.58	37.00	-12.42	QP	

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

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Above 1GHz

1GMz-18GMz

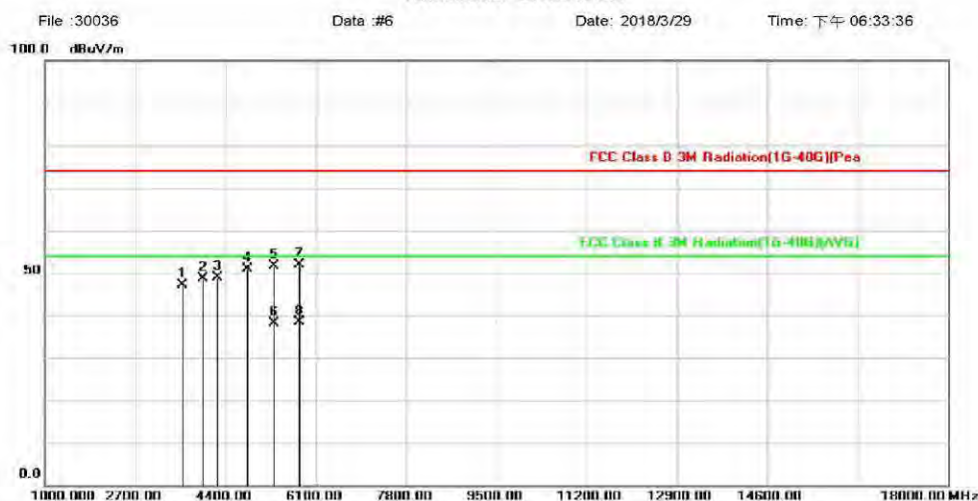
Config_1_H

Site: SGS 966 Chamber A
Limit: FCC Class B 3M Radiation(1G-40G)(Pea
Mode: Config 1
Note: WCDMA B2

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

Temperature: 21 °C
Humidity: 65 %

Radiated Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		3601.000	58.19	-11.18	47.01	74.00	-26.99	peak	
2		3975.000	58.12	-9.61	48.51	74.00	-25.49	peak	
3		4247.000	58.41	-9.44	48.97	74.00	-25.03	peak	
4		4808.000	58.83	-8.05	50.78	74.00	-23.22	peak	
5		5318.000	58.51	-6.95	51.56	74.00	-22.44	peak	
6		5318.000	45.01	-6.95	38.06	54.00	-15.94	AVG	
7		5794.000	57.93	-6.09	51.84	74.00	-22.16	peak	
8 *		5794.000	44.38	-6.09	38.29	54.00	-15.71	AVG	

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

File :30036\Data :#6

Page: 1

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1GMz-18GMz

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: 65 %

Mode: Config 1

Distance:

Note: WCDMA B2

Radiated Emission

File :30036

Data :#5

Date: 2018/3/29

Time: 下午 06:32:29



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		3550.000	59.56	-11.39	48.17	74.00	-25.83	peak	
2		3839.000	59.78	-10.18	49.60	74.00	-24.40	peak	
3		4638.000	57.83	-8.79	49.04	74.00	-24.96	peak	
4		4995.000	59.00	-7.22	51.78	74.00	-22.22	peak	
5		4995.000	45.27	-7.22	38.05	54.00	-15.95	AVG	
6		5318.000	59.04	-6.95	52.09	74.00	-21.91	peak	
7 *		5318.000	45.39	-6.95	38.44	54.00	-15.56	AVG	
8		5794.000	58.33	-6.09	52.24	74.00	-21.76	peak	
9		5794.000	44.46	-6.09	38.37	54.00	-15.63	AVG	

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

File :30036\Data :#5

Page: 1

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1GMz-18GMz

Config_2_H

Site: SGS 966 Chamber A
 Limit: FCC Class B 3M Radiation(1G-40G)(Pea
 Mode: Config 2
 Note: Data link(Write)

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

Temperature: 21 °C
 Humidity: 65 %

Radiated Emission



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

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

File :30036\Data :#24

Page: 1

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1GMz-18GMz

Config_2_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: 65 %

Mode: Config 2

Distance:

Note: Data link(Write)

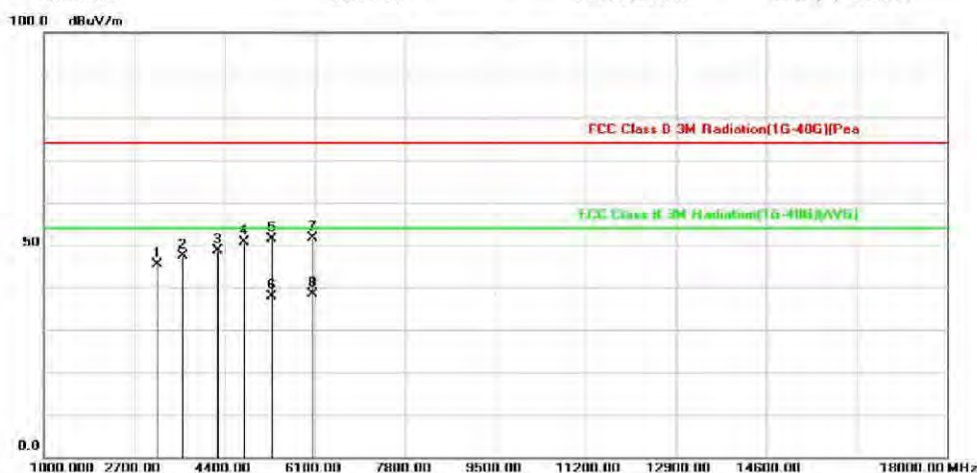
Radiated Emission

File :30036

Data :#23

Date: 2018/3/29

Time: 下午 08:29:01



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		3142.000	57.84	-12.53	45.31	74.00	-28.69	peak	
2		3618.000	58.58	-11.10	47.48	74.00	-26.52	peak	
3		4264.000	58.14	-9.45	48.69	74.00	-25.31	peak	
4		4774.000	58.77	-8.21	50.56	74.00	-23.44	peak	
5		5301.000	58.43	-6.96	51.47	74.00	-22.53	peak	
6		5301.000	44.82	-6.96	37.86	54.00	-16.14	AVG	
7		6066.000	56.89	-5.15	51.74	74.00	-22.26	peak	
8 *		6066.000	43.57	-5.15	38.42	54.00	-15.58	AVG	

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

File :30036\Data :#23

Page: 1

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1GMz-18GMz

Config_3_H

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

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

Temperature: 21 °C
Humidity: 65 %

Radiated Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		4094.000	58.39	-9.49	48.90	74.00	-25.10	peak	
2		4621.000	57.49	-8.88	48.61	74.00	-25.39	peak	
3		4910.000	58.38	-7.60	50.78	74.00	-23.22	peak	
4		5318.000	59.35	-6.95	52.40	74.00	-21.60	peak	
5		5318.000	45.23	-6.95	38.28	54.00	-15.72	AVG	
6		5692.000	57.95	-6.34	51.61	74.00	-22.39	peak	
7		5692.000	44.79	-6.34	38.45	54.00	-15.55	AVG	
8		6083.000	56.92	-5.04	51.88	74.00	-22.12	peak	
9 *		6083.000	43.65	-5.04	38.61	54.00	-15.39	AVG	

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

File :30036\Data :#8

Page: 1

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1GMz-18GMz

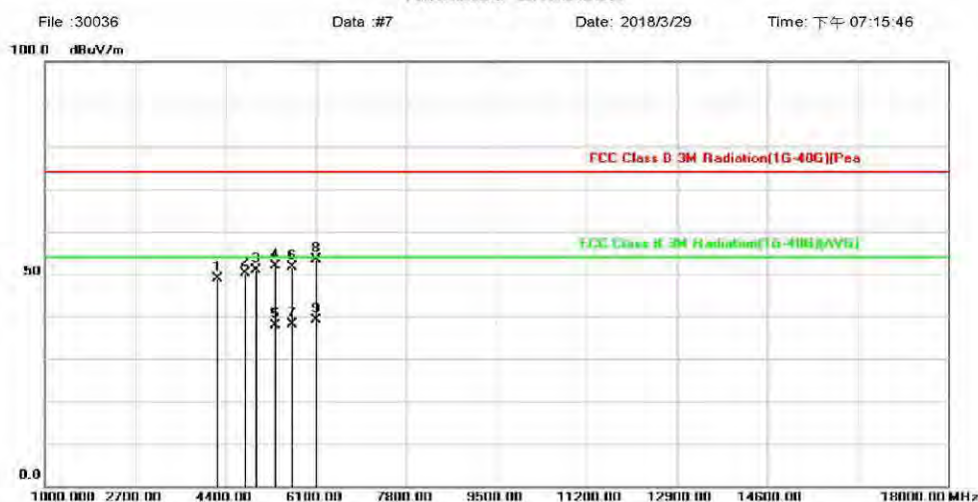
Config_3_V

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

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

Temperature: 21 °C
Humidity: 65 %

Radiated Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		4247.000	58.28	-9.44	48.84	74.00	-25.16	peak	
2		4774.000	58.34	-8.21	50.13	74.00	-23.87	peak	
3		4978.000	58.15	-7.29	50.86	74.00	-23.14	peak	
4		5335.000	58.81	-6.93	51.88	74.00	-22.12	peak	
5		5335.000	44.79	-6.93	37.86	54.00	-16.14	AVG	
6		5658.000	58.04	-6.42	51.62	74.00	-22.38	peak	
7		5658.000	44.55	-6.42	38.13	54.00	-15.87	AVG	
8		6117.000	58.23	-4.80	53.43	74.00	-20.57	peak	
9 *		6117.000	43.94	-4.80	39.14	54.00	-14.86	AVG	

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

File :30036\Data :#7

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18GMz-30GMz

Config_1_H

Site: SGS 966 Chamber A

Polarization: **Horizontal**

Temperature: 21 °C

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

Power: AC 120V/60Hz

Humidity: 65 %

Mode: Config 1

Distance:

Note: WCDMA B2

Radiated Emission

File :30036

Data :#14

Date: 2018/3/29

Time: 下午 08:14:35



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	dBuV	Factor	ment	dBuV/m	dB	Detector	Comment
1		18996.000	54.78	-1.60	53.18	83.50	-30.32	peak	
2		20772.000	54.03	-1.02	53.01	83.50	-30.49	peak	
3		21576.000	53.79	0.58	54.37	83.50	-29.13	peak	
4		21960.000	52.87	1.51	54.38	83.50	-29.12	peak	
5 *		24936.000	54.01	2.57	56.58	83.50	-26.92	peak	
6		27864.000	53.44	1.98	55.42	83.50	-28.08	peak	

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

File :30036\Data :#14

Page: 1

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18GMz-30GMz

Config_1_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: 65 %

Mode: Config 1

Distance:

Note: WCDMA B2

Radiated Emission



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

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

File :30036\Data :#13

Page: 1

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18GMz-30GMz

Config_2_H

Site: SGS 966 Chamber A

Polarization: **Horizontal**

Temperature: 21 °C

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

Power: AC 120V/60Hz

Humidity: 65 %

Mode: Config 2

Distance:

Note: Data link(Write)

Radiated Emission



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

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

File :30036\Data :#20

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18GMz-30GMz

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: 65 %

Mode: Config 2

Distance:

Note: Data link(Write)

Radiated Emission



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

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

File :30036\Data :#19

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18GMz-30GMz

Config_3_H

Site: SGS 966 Chamber A

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

Mode: Config 3

Note: REC Mode

Polarization: **Horizontal**

Power: AC 120V/60Hz

Distance:

Temperature: 21 °C

Humidity: 65 %

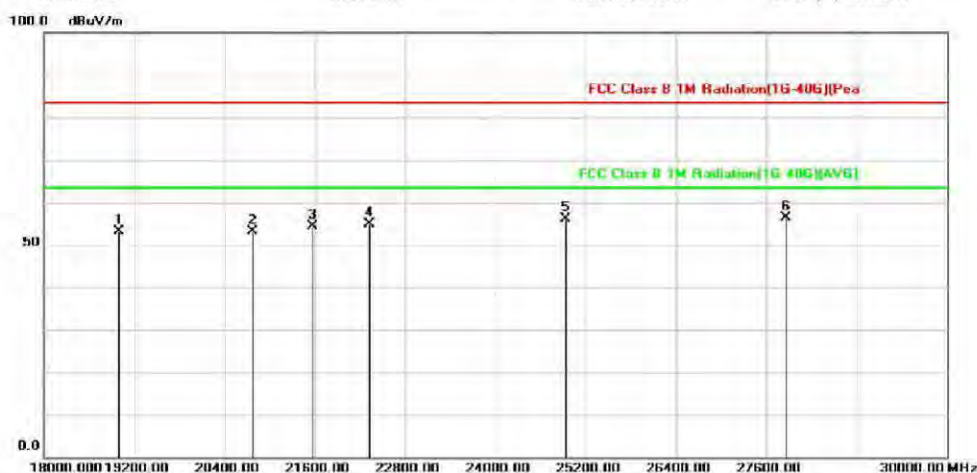
Radiated Emission

File :30036

Data :#16

Date: 2018/3/29

Time: 下午 08:22:57



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

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

File :30036\Data :#16

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18GMz-30GMz

Config_3_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: 65 %

Mode: Config 3

Distance:

Note: REC Mode

Radiated Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		19668.000	54.51	-1.47	53.04	83.50	-30.46	peak	
2		21924.000	54.19	1.42	55.61	83.50	-27.89	peak	
3	*	24924.000	54.40	2.57	56.97	83.50	-26.53	peak	
4		26076.000	52.54	2.23	54.77	83.50	-28.73	peak	
5		28380.000	53.07	1.85	54.92	83.50	-28.58	peak	
6		29772.000	53.51	1.98	55.49	83.50	-28.01	peak	

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

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