



FCC CERTIFICATION REPORT

Test Report No. : MH/2018/90208

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-Shi, 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 : Sep. 20, 2018

Date of Test : Sep. 20 ~ Oct. 11, 2018

Date of Issue : Oct. 16, 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

Oct. 16, 2018

Thomas Liu (Engineer)

Approved By

Eddy Cheng

Date

Oct. 16, 2018

Eddy Cheng (Asst. Supervisor)



Testing Laboratory
0513

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Revision History

Report Number	Revision	Description	Issue Date
MH/2018/90208	Rev.00	Initial creation of document	Oct. 16, 2018

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1. General Information

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Manufacturer : Sharp Corporation
Address of Manufacturer : 1 Takumi-cho, Sakai-ku, Sakai-Shi, 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 : 2480 MHz
Battery : 3.85V, 2700mAh, 10.40Wh
Worst case : CE / Above RE worst case : Config 3
Below RE worst case : Config 1

	FCC ID : APYHRO00267
1 ST Source (eMCP memory, PCB, Shield, Sub camera)	V
2 nd Source (eMCP memory, PCB, Shield, Sub camera)	Worst case

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AC Charger : NA/SB-AC17-TCQC Data Cable : Luxshare-ICT/L6KU2007-CS-H 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		Speech	Data Link	Camera
Additional function		BT+WiFi +GPS		
Description				
radiated emission		GSM 1900 WCDMA BII/IV LTE B2/4	Data R/W	MP3/ ;REC mode (Front/Back) ;play REC
conducted emission (DC Power)		NA	NA	NA
conducted emission (AC Power)		GSM 1900 WCDMA BII/IV LTE B2/4	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 the headphones and execute the 1K sound source.
3. NB & EUT Link AP-WiFi (5G/2.4G), NB performs ping EUT IP
4. Turn on BT function, Link BT Speaker and turn on NFC function.
5. Set up base station, set channel (GSM 1900, WCDMA B2/B4, LTE B2/B4) and transmit the 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 the headphones and execute the 1K sound source.
3. NB_2 & EUT Link AP-WiFi Worst (5G/2.4G), NB performs ping EUT IP
4. Turn on BT function, Link BT Speaker and turn on NFC function.
5. Set up GPS simulator and turn on GPS test app.
6. NB_1 execute data Read/Write with EUT
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 the headphones and execute the 1K sound source.
3. NB_2 & EUT Link AP-WiFi Worst (5G/2.4G), NB performs ping EUT IP
4. Turn on BT function, Link BT Speaker and turn on NFC function.
5. Set up GPS simulator and turn on GPS test app.
6. Turn on the CAMERA function, test the front and rear lens to record and 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 (RE, HRE)	DELL	P56F	59WSJ72
Notebook (CE)	DELL	Latitude E5430	COVZYW1
Mouse (RE, HRE, CE)	Logitech	M-U0026	1738HS05FGU8
Printer (RE, HRE, CE)	HP	VCVRA-1004	CN33K19J3F
Micro SD	Transcend	Micro SDHC (Class4)	N/A
Adapter	NA	SB-AC17-TCQC	N/A

Support Equipment Used in Tested Cable

Cable Type	Core	Length	Shielding/Non-shielding
USB Cable*2	N/A	1.8m	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
USB Cable	N/A	1m	Shielding
Earphone Cable	N/A	1.25m	Non-shielding

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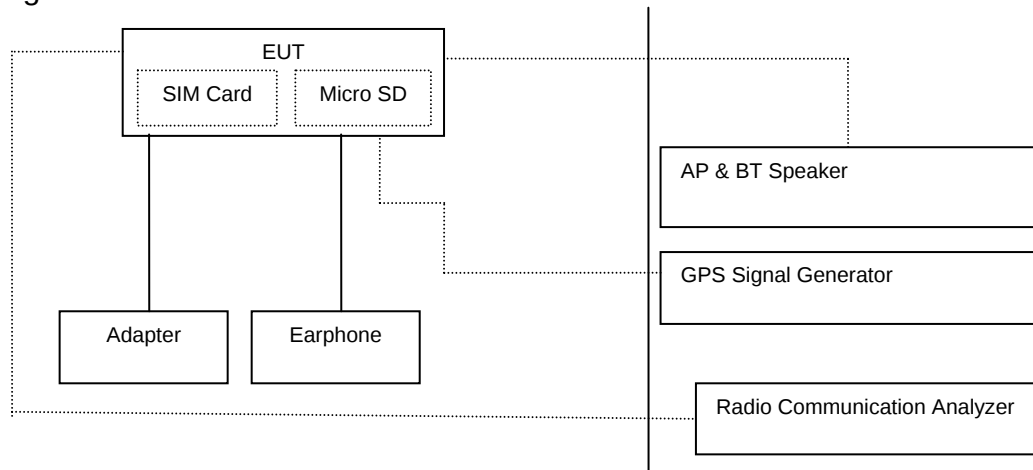
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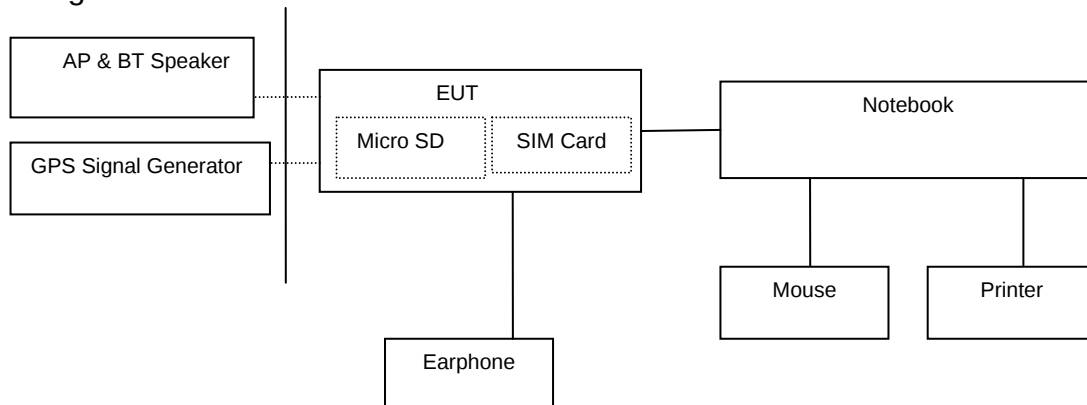
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1.8 Test Set-Up Configuration

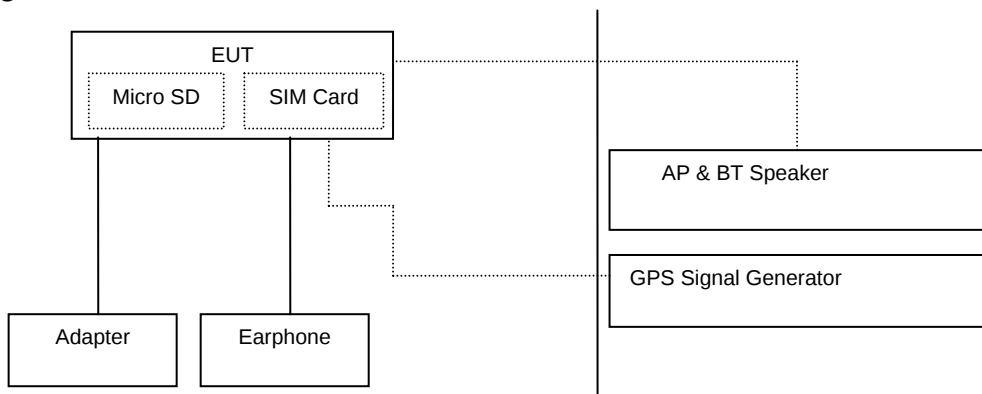
Config 1



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	0.5060	-5.86 (QP)
			Neutral	0.7900	-8.09 (QP)
	Radiated Emission	PASS	Ver.	74.6200	-7.14 (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	101342	2018/1/31	2019/1/30
Coaxial Cables	EMC Instruments Corp	EMCRG58-BM-BM-3000	160812	2018/8/12	2019/8/11
LISN	Schwarzbeck	NSLK 8127	8127-648	2018/7/9	2019/7/8
Pulse Limiter	Narda S.T.S.	PMM PL01	1110X30602	2018/8/12	2019/8/11
LISN	Schwarzbeck	NSLK 8128	NSLK8128-300	2018/9/3	2019/9/2
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.

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 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
 Theory values uncertainty U_{cispr 16-4-2 :2011+A1 2014} (K=2) of AC mains conducted Emission is 3.44dB

2.4.2 Operating Environment

Temperature : 26 degree C

Humidity : 70 %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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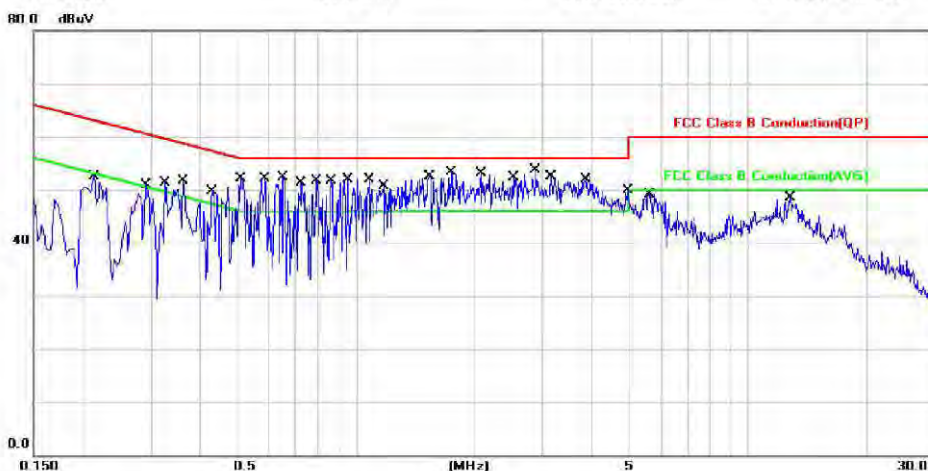
2.4.4 Measurement Data:

Config_1_L

Site : Conduction Room Phase: **L1** Temperature: 26 °C
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 70 %
 Mode: Config 1
 Note: GSM 1900

Conducted Emission

File :90208 Data :#16 Date: 2018/9/28 Time: 上午 11:24:00



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2140	43.50	0.03	43.53	63.05	-19.52	QP	
2		0.2140	23.20	0.03	23.23	53.05	-29.82	AVG	
3		0.2900	44.90	0.06	44.96	60.52	-15.56	QP	
4		0.2900	31.40	0.06	31.46	50.52	-19.06	AVG	
5		0.3260	38.20	0.08	38.28	59.55	-21.27	QP	
6		0.3260	20.00	0.08	20.08	49.55	-29.47	AVG	
7		0.3620	42.00	0.09	42.09	58.68	-16.59	QP	
8		0.3620	19.80	0.09	19.89	48.68	-28.79	AVG	
9		0.4300	40.40	0.12	40.52	57.25	-16.73	QP	
10		0.4300	18.30	0.12	18.42	47.25	-28.83	AVG	
11		0.5100	46.10	0.14	46.24	56.00	-9.76	QP	
12		0.5100	32.10	0.14	32.24	46.00	-13.76	AVG	
13		0.5860	40.80	0.16	40.96	56.00	-15.04	QP	

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

File :90208\Data :#16

Page: 1

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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
14		0.5860	19.50	0.16	19.66	46.00	-26.34	AVG	
15		0.6540	39.70	0.17	39.87	56.00	-16.13	QP	
16		0.6540	19.60	0.17	19.77	46.00	-26.23	AVG	
17		0.7260	39.90	0.20	40.10	56.00	-15.90	QP	
18		0.7260	23.70	0.20	23.90	46.00	-22.10	AVG	
19		0.7940	45.50	0.21	45.71	56.00	-10.29	QP	
20		0.7940	32.50	0.21	32.71	46.00	-13.29	AVG	
21		0.8620	44.30	0.22	44.52	56.00	-11.48	QP	
22		0.8620	25.50	0.22	25.72	46.00	-20.28	AVG	
23		0.9500	39.30	0.24	39.54	56.00	-16.46	QP	
24		0.9500	20.80	0.24	21.04	46.00	-24.96	AVG	
25		1.0820	16.60	0.25	16.85	56.00	-39.15	QP	
26		1.0820	33.00	0.25	33.25	46.00	-12.75	AVG	
27		1.1780	42.10	0.25	42.35	56.00	-13.65	QP	
28		1.1780	25.10	0.25	25.35	46.00	-20.65	AVG	
29 *		1.5380	46.10	0.26	46.36	56.00	-9.64	QP	
30		1.5380	32.50	0.26	32.76	46.00	-13.24	AVG	
31		1.7460	42.30	0.26	42.56	56.00	-13.44	QP	
32		1.7460	24.60	0.26	24.86	46.00	-21.14	AVG	
33		2.0820	40.80	0.27	41.07	56.00	-14.93	QP	
34		2.0820	23.70	0.27	23.97	46.00	-22.03	AVG	
35		2.5180	43.70	0.28	43.98	56.00	-12.02	QP	
36		2.5180	26.20	0.28	26.48	46.00	-19.52	AVG	
37		2.8780	41.90	0.29	42.19	56.00	-13.81	QP	
38		2.8780	26.80	0.29	27.09	46.00	-18.91	AVG	
39		3.1540	41.90	0.29	42.19	56.00	-13.81	QP	
40		3.1540	24.90	0.29	25.19	46.00	-20.81	AVG	
41		3.8500	42.20	0.31	42.51	56.00	-13.49	QP	
42		3.8500	28.30	0.31	28.61	46.00	-17.39	AVG	
43		4.9340	39.50	0.33	39.83	56.00	-16.17	QP	
44		4.9340	24.50	0.33	24.83	46.00	-21.17	AVG	
45		5.6060	40.00	0.35	40.35	60.00	-19.65	QP	
46		5.6060	24.80	0.35	25.15	50.00	-24.85	AVG	
47		12.8180	40.10	0.56	40.66	60.00	-19.34	QP	
48		12.8180	27.20	0.56	27.76	50.00	-22.24	AVG	

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

File :90208\Data :#16

Page: 2

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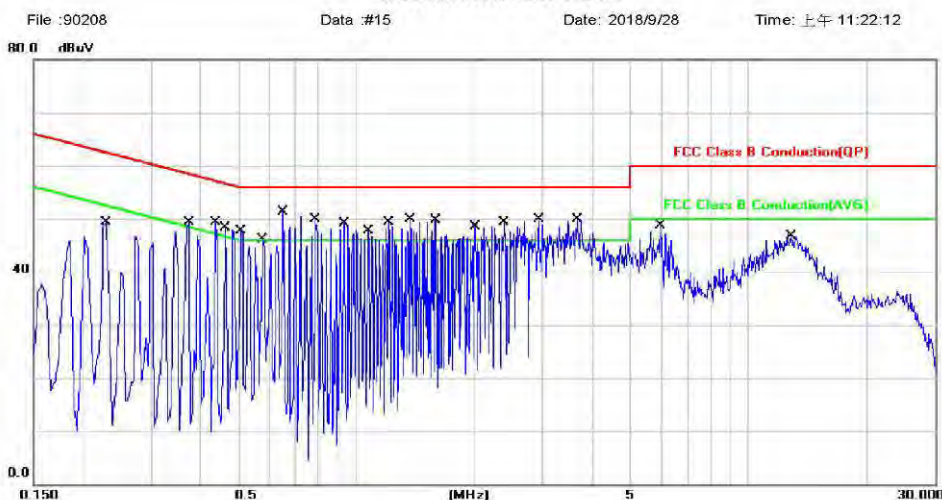
Config_1_N

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

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

Temperature: 26 °C
 Humidity: 70 %

Conducted Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	dBuV	Factor	ment	dBuV	dB	Detector	Comment
1		0.2280	46.40	0.05	46.45	62.52	-16.07	QP	
2		0.2280	30.60	0.05	30.65	52.52	-21.87	AVG	
3		0.3740	40.90	0.10	41.00	58.41	-17.41	QP	
4		0.3740	16.90	0.10	17.00	48.41	-31.41	AVG	
5		0.4380	39.70	0.12	39.82	57.10	-17.28	QP	
6		0.4380	17.40	0.12	17.52	47.10	-29.58	AVG	
7		0.4620	42.80	0.13	42.93	56.66	-13.73	QP	
8		0.4620	24.30	0.13	24.43	46.66	-22.23	AVG	
9 *		0.5100	44.60	0.14	44.74	56.00	-11.26	QP	
10		0.5100	28.40	0.14	28.54	46.00	-17.46	AVG	
11		0.5780	40.00	0.16	40.16	56.00	-15.84	QP	
12		0.5780	21.20	0.16	21.36	46.00	-24.64	AVG	
13		0.6500	38.80	0.17	38.97	56.00	-17.03	QP	

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

File :90208\Data :#15

Page: 1

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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
14		0.6500	14.50	0.17	14.67	46.00	-31.33	AVG	
15		0.7900	43.60	0.21	43.81	56.00	-12.19	QP	
16		0.7900	25.70	0.21	25.91	46.00	-20.09	AVG	
17		0.9340	38.30	0.24	38.54	56.00	-17.46	QP	
18		0.9340	15.30	0.24	15.54	46.00	-30.46	AVG	
19		1.0740	42.00	0.25	42.25	56.00	-13.75	QP	
20		1.0740	25.00	0.25	25.25	46.00	-20.75	AVG	
21		1.2140	38.40	0.25	38.65	56.00	-17.35	QP	
22		1.2140	18.50	0.25	18.75	46.00	-27.25	AVG	
23		1.3780	41.60	0.26	41.86	56.00	-14.14	QP	
24		1.3780	19.80	0.26	20.06	46.00	-25.94	AVG	
25		1.5900	41.60	0.26	41.86	56.00	-14.14	QP	
26		1.5900	25.40	0.26	25.66	46.00	-20.34	AVG	
27		2.0220	38.00	0.27	38.27	56.00	-17.73	QP	
28		2.0220	17.40	0.27	17.67	46.00	-28.33	AVG	
29		2.3860	41.30	0.28	41.58	56.00	-14.42	QP	
30		2.3860	24.10	0.28	24.38	46.00	-21.62	AVG	
31		2.9220	39.40	0.28	39.68	56.00	-16.32	QP	
32		2.9220	20.30	0.28	20.58	46.00	-25.42	AVG	
33		3.6740	40.20	0.30	40.50	56.00	-15.50	QP	
34		3.6740	21.40	0.30	21.70	46.00	-24.30	AVG	
35		5.9740	38.40	0.33	38.73	60.00	-21.27	QP	
36		5.9740	21.60	0.33	21.93	50.00	-28.07	AVG	
37		12.8980	40.00	0.46	40.46	60.00	-19.54	QP	
38		12.8980	29.90	0.46	30.36	50.00	-19.64	AVG	

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

File :90208\Data :#15

Page: 2

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Config_2_L

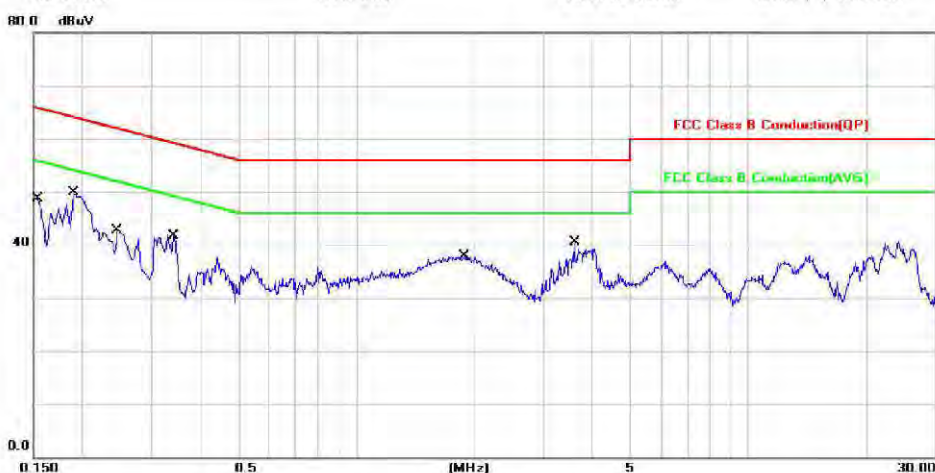
Site : Conduction Room
 Limit: FCC Class B Conduction(QP)
 Mode: Config 2
 Note: Data Read (SD Card)
 AC 120V/60Hz

Phase: **L1**
 Power: From System

Temperature: 26 °C
 Humidity: 70 %

Conducted Emission

File :90208 Data :#25 Date: 2018/9/28 Time: 下午 01:35:36



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1540	39.10	0.04	39.14	65.78	-26.64	QP	
2		0.1540	25.30	0.04	25.34	55.78	-30.44	AVG	
3 *		0.1900	47.10	0.03	47.13	64.04	-16.91	QP	
4		0.1900	34.40	0.03	34.43	54.04	-19.61	AVG	
5		0.2460	39.00	0.05	39.05	61.89	-22.84	QP	
6		0.2460	27.50	0.05	27.55	51.89	-24.34	AVG	
7		0.3420	36.70	0.09	36.79	59.15	-22.36	QP	
8		0.3420	24.90	0.09	24.99	49.15	-24.16	AVG	
9		1.8900	34.60	0.27	34.87	56.00	-21.13	QP	
10		1.8900	23.60	0.27	23.87	46.00	-22.13	AVG	
11		3.6180	32.30	0.30	32.60	56.00	-23.40	QP	
12		3.6180	23.90	0.30	24.20	46.00	-21.80	AVG	

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

File :90208\Data :#25

Page: 1

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Config_2_N

Site : Conduction Room
Limit: FCC Class B Conduction(QP)
Mode: Config 2
Note: Data Read (SD Card)
AC 120V/60Hz

Phase: N
Power: From System

Temperature: 26 °C
Humidity: 70 %

Conducted Emission

File :90208 Data :#26 Date: 2018/9/28 Time: 下午 01:36:45



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	dBuV	Factor	ment	dBuV	dB	Detector	Comment
1	*	0.1900	47.70	0.04	47.74	64.04	-16.30	QP	
2		0.1900	33.30	0.04	33.34	54.04	-20.70	AVG	
3		0.2700	36.20	0.06	36.26	61.12	-24.86	QP	
4		0.2700	26.50	0.06	26.56	51.12	-24.56	AVG	
5		0.3140	32.90	0.08	32.98	59.86	-26.88	QP	
6		0.3140	21.20	0.08	21.28	49.86	-28.58	AVG	
7		0.3500	30.50	0.09	30.59	58.96	-28.37	QP	
8		0.3500	18.30	0.09	18.39	48.96	-30.57	AVG	
9		15.7900	36.10	0.52	36.62	60.00	-23.38	QP	
10		15.7900	30.30	0.52	30.82	50.00	-19.18	AVG	
11		26.1820	33.10	0.83	33.93	60.00	-26.07	QP	
12		26.1820	27.90	0.83	28.73	50.00	-21.27	AVG	

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

File :90208\Data :#26

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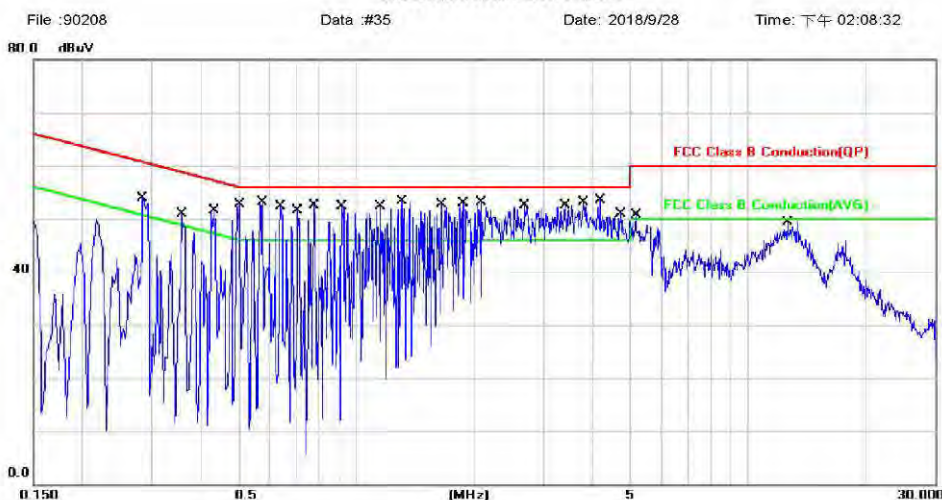
Config_3_L

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

Phase: L1
Power: AC 120V/60Hz

Temperature: 26 °C
Humidity: 70 %

Conducted Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	dBuV	Factor	ment	dBuV	dB	Detector	Comment
1		0.2860	48.20	0.06	48.26	60.64	-12.38	QP	
2		0.2860	36.10	0.06	36.16	50.64	-14.48	AVG	
3		0.3580	49.20	0.09	49.29	58.77	-9.48	QP	
4		0.3580	35.30	0.09	35.39	48.77	-13.38	AVG	
5		0.4340	35.70	0.12	35.82	57.18	-21.36	QP	
6		0.4340	15.10	0.12	15.22	47.18	-31.96	AVG	
7 *		0.5060	50.00	0.14	50.14	56.00	-5.86	QP	
8		0.5060	35.40	0.14	35.54	46.00	-10.46	AVG	
9		0.5780	39.20	0.16	39.36	56.00	-16.64	QP	
10		0.5780	22.60	0.16	22.76	46.00	-23.24	AVG	
11		0.6420	48.90	0.17	49.07	56.00	-6.93	QP	
12		0.6420	31.80	0.17	31.97	46.00	-14.03	AVG	
13		0.7100	30.20	0.19	30.39	56.00	-25.61	QP	

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

File :90208\Data :#35

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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
14		0.7100	16.60	0.19	16.79	46.00	-29.21	AVG	
15		0.7820	36.00	0.21	36.21	56.00	-19.79	QP	
16		0.7820	20.90	0.21	21.11	46.00	-24.89	AVG	
17		0.9220	39.10	0.23	39.33	56.00	-16.67	QP	
18		0.9220	19.80	0.23	20.03	46.00	-25.97	AVG	
19		1.1580	47.70	0.25	47.95	56.00	-8.05	QP	
20		1.1580	30.20	0.25	30.45	46.00	-15.55	AVG	
21		1.3060	45.30	0.26	45.56	56.00	-10.44	QP	
22		1.3060	30.00	0.26	30.26	46.00	-15.74	AVG	
23		1.6500	45.60	0.26	45.86	56.00	-10.14	QP	
24		1.6500	31.60	0.26	31.86	46.00	-14.14	AVG	
25		1.8820	47.60	0.27	47.87	56.00	-8.13	QP	
26		1.8820	30.70	0.27	30.97	46.00	-15.03	AVG	
27		2.0900	46.90	0.27	47.17	56.00	-8.83	QP	
28		2.0900	30.00	0.27	30.27	46.00	-15.73	AVG	
29		2.7060	40.40	0.28	40.68	56.00	-15.32	QP	
30		2.7060	21.50	0.28	21.78	46.00	-24.22	AVG	
31		3.4300	46.60	0.30	46.90	56.00	-9.10	QP	
32		3.4300	31.40	0.30	31.70	46.00	-14.30	AVG	
33		3.8060	42.50	0.31	42.81	56.00	-13.19	QP	
34		3.8060	28.80	0.31	29.11	46.00	-16.89	AVG	
35		4.1900	45.50	0.31	45.81	56.00	-10.19	QP	
36		4.1900	31.70	0.31	32.01	46.00	-13.99	AVG	
37		4.7220	39.90	0.33	40.23	56.00	-15.77	QP	
38		4.7220	25.40	0.33	25.73	46.00	-20.27	AVG	
39		5.1820	41.90	0.34	42.24	60.00	-17.76	QP	
40		5.1820	27.30	0.34	27.64	50.00	-22.36	AVG	
41		12.6140	41.90	0.56	42.46	60.00	-17.54	QP	
42		12.6140	29.50	0.56	30.06	50.00	-19.94	AVG	

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

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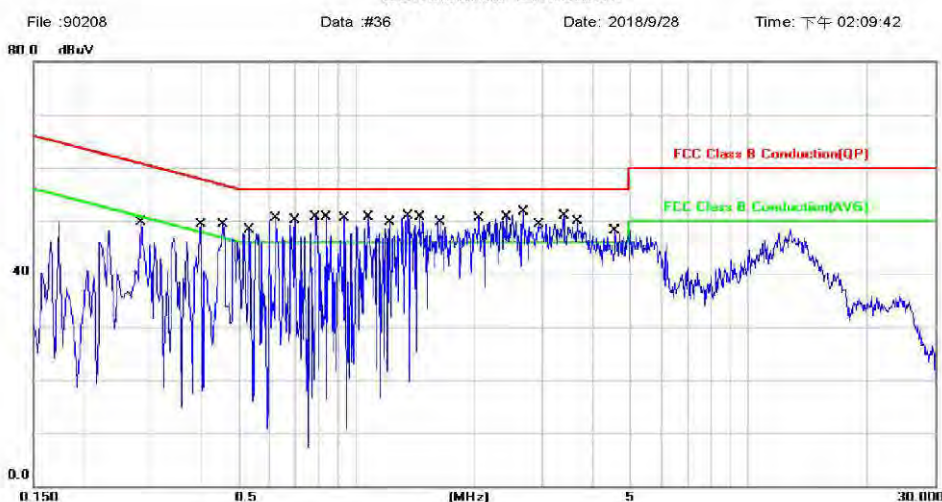
Config_3_N

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

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

Temperature: 26 °C
Humidity: 70 %

Conducted Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	dBuV	Factor	ment	dBuV	dB	Detector	Comment
1		0.2820	49.70	0.07	49.77	60.76	-10.99	QP	
2		0.2820	32.90	0.07	32.97	50.76	-17.79	AVG	
3		0.4020	39.00	0.11	39.11	57.81	-18.70	QP	
4		0.4020	18.60	0.11	18.71	47.81	-29.10	AVG	
5		0.4580	45.40	0.13	45.53	56.73	-11.20	QP	
6		0.4580	24.70	0.13	24.83	46.73	-21.90	AVG	
7		0.5340	27.90	0.15	28.05	56.00	-27.95	QP	
8		0.5340	10.70	0.15	10.85	46.00	-35.15	AVG	
9		0.6260	45.80	0.17	45.97	56.00	-10.03	QP	
10		0.6260	22.30	0.17	22.47	46.00	-23.53	AVG	
11		0.6980	29.40	0.18	29.58	56.00	-26.42	QP	
12		0.6980	13.40	0.18	13.58	46.00	-32.42	AVG	
13 *		0.7900	47.70	0.21	47.91	56.00	-8.09	QP	

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

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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
14		0.7900	29.20	0.21	29.41	46.00	-16.59	AVG	
15		0.8380	41.90	0.22	42.12	56.00	-13.88	QP	
16		0.8380	17.40	0.22	17.62	46.00	-28.38	AVG	
17		0.9340	33.60	0.24	33.84	56.00	-22.16	QP	
18		0.9340	12.10	0.24	12.34	46.00	-33.66	AVG	
19		1.0740	46.60	0.25	46.85	56.00	-9.15	QP	
20		1.0740	27.90	0.25	28.15	46.00	-17.85	AVG	
21		1.2180	46.10	0.25	46.35	56.00	-9.65	QP	
22		1.2180	25.80	0.25	26.05	46.00	-19.95	AVG	
23		1.3580	44.60	0.26	44.86	56.00	-11.14	QP	
24		1.3580	25.00	0.26	25.26	46.00	-20.74	AVG	
25		1.4620	40.30	0.26	40.56	56.00	-15.44	QP	
26		1.4620	20.10	0.26	20.36	46.00	-25.64	AVG	
27		1.6380	41.40	0.26	41.66	56.00	-14.34	QP	
28		1.6380	23.20	0.26	23.46	46.00	-22.54	AVG	
29		2.0620	44.30	0.27	44.57	56.00	-11.43	QP	
30		2.0620	24.40	0.27	24.67	46.00	-21.33	AVG	
31		2.4100	39.10	0.28	39.38	56.00	-16.62	QP	
32		2.4100	18.10	0.28	18.38	46.00	-27.62	AVG	
33		2.6780	44.30	0.28	44.58	56.00	-11.42	QP	
34		2.6780	25.40	0.28	25.68	46.00	-20.32	AVG	
35		2.9460	39.60	0.28	39.88	56.00	-16.12	QP	
36		2.9460	21.90	0.28	22.18	46.00	-23.82	AVG	
37		3.3820	44.60	0.29	44.89	56.00	-11.11	QP	
38		3.3820	26.90	0.29	27.19	46.00	-18.81	AVG	
39		3.6620	39.40	0.29	39.69	56.00	-16.31	QP	
40		3.6620	20.00	0.29	20.29	46.00	-25.71	AVG	
41		4.5820	40.80	0.31	41.11	56.00	-14.89	QP	
42		4.5820	25.80	0.31	26.11	46.00	-19.89	AVG	

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

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2.5 Test of Radiated Emission

2.5.1 Test Equipments

Below 1GHz

SGS Radiated_Below_1GHz HWAYA 10m EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI 7	100950	2017/12/12	2018/12/11
EMI Test Receiver	R&S	ESCI 3	101343	2018/1/31	2019/1/30
Broadband Antenna	SCHWAZBECK	VULB9168	9168-628	2018/9/7	2019/9/6
Broadband Antenna	SCHWAZBECK	VULB9168	9168-629	2018/9/7	2019/9/6
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	2018/9/18	2019/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150919	2018/9/18	2019/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150820	2018/9/18	2019/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150918	2018/9/18	2019/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150821	2018/9/18	2019/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150822	2018/9/18	2019/9/17
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.

SGS Taiwan LTD. Electronics & Communication Laboratory
 No.2, Keji 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
 Measurement Uncertainty of Radiated Emission
 Expanded uncertainty Ulab (K=2) of radiated emission is 4.09 dB. (30MHz ~ 1000MHz)
 Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of radiated emission is 5.22 dB. (30MHz ~ 1000MHz)

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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	101419	2018/5/15	2019/5/14
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	2018/3/31	2019/3/30
Pre Amplifier	EMC Instruments Corp.	EMC184045B	980135	2017/10/27	2018/10/26
Coaxial Cable	JUNFLOW	MWX221-NMSNMS	J0778929	2018/4/23	2019/4/22
Coaxial Cable	Huber+Suhner	SUCCOFLEX 104PEA	30255/4PEA	2018/4/23	2019/4/22
Coaxial Cable	EMC Instruments	EMC104-SM-SM	140927	2018/4/23	2019/4/22
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	MY 2651/2	2018/6/5	2019/6/4
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	MY 2153/2	2018/6/5	2019/6/4
Universal Digital Radio Communication Tester	R&S	CMU 200	119988	2018/2/22	2019/2/21
Wideband Radio Communication Tester	R&S	CMW 500	152303	2018/2/21	2019/2/20
Controller	MF	MF-7802	N.C.R.	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Site VSWR	SGS	966 Chamber A	SAC-A	2018/1/12	2019/1/11
Test S/W	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

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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)

2.5.2 Operating Environment

Temperature : 24 degree C

Humidity : 66 %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: GSM900

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

Temperature: 24 °C
 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		86.0700	32.80	-17.29	15.51	30.00	-14.49	QP	
2		137.6700	30.51	-11.93	18.58	30.00	-11.42	QP	
3		754.5900	23.75	0.77	24.52	37.00	-12.48	QP	
4		842.8600	23.94	1.44	25.38	37.00	-11.62	QP	
5		928.2200	23.63	2.89	26.52	37.00	-10.48	QP	
6 *		964.1100	23.86	3.13	26.99	37.00	-10.01	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: GSM900

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

Temperature: 24 °C
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		30.4800	29.09	-12.10	16.99	30.00	-13.01	QP	
2	*	74.6200	37.17	-14.31	22.86	30.00	-7.14	QP	
3		110.1700	35.90	-14.20	21.70	30.00	-8.30	QP	
4		137.6700	31.21	-12.04	19.17	30.00	-10.83	QP	
5		926.2800	23.03	1.87	24.90	37.00	-12.10	QP	
6		986.4200	22.78	2.07	24.85	37.00	-12.15	QP	

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

File: MH-2018-90208\Data: #9

Page: 1

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Config_2_H

Site: SGS 10m Chamber
Limit: CISPR22 Class B 10M Radiation
Mode: Config_2
Note: Data Write

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

Temperature: 24 °C
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		55.2200	24.48	-11.36	13.12	30.00	-16.88	QP	
2		144.4600	24.13	-11.26	12.87	30.00	-17.13	QP	
3		167.7400	24.95	-11.28	13.67	30.00	-16.33	QP	
4		934.0400	23.60	2.98	26.58	37.00	-10.42	QP	
5	*	951.5000	23.67	3.22	26.89	37.00	-10.11	QP	
6		987.3900	23.69	2.90	26.59	37.00	-10.41	QP	

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

File: MH-2018-90208\Data #12

Page: 1

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Config_2_V

Site: SGS 10m Chamber

Polarization: **Vertical**

Temperature: 24 °C

Limit: CISPR22 Class B 10M Radiation

Power: From System

Humidity: 66 %

Mode: Config_2

Distance: 10m

Note: Data Write

Radiated Emission

File: MH-2018-90208

Data: #11

Date: 2018/9/28

Time: 下午 08:20:49



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	72.0100	32.94	-13.52	19.42	30.00	-10.58	QP	
2		168.0000	30.25	-11.36	18.89	30.00	-11.11	QP	
3		883.6000	23.07	0.94	24.01	37.00	-12.99	QP	
4		914.6400	23.06	1.80	24.86	37.00	-12.14	QP	
5		949.5600	22.86	1.90	24.76	37.00	-12.24	QP	
6		998.0600	22.74	2.26	25.00	37.00	-12.00	QP	

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

File: MH-2018-90208\Data: #11

Page: 1

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Config_3_H

Site: SGS 10m Chamber

Polarization: **Horizontal**

Temperature: 24 °C

Limit: CISPR22 Class B 10M Radiation

Power: AC 120V/60Hz

Humidity: 66 %

Mode: Config_3

Distance: 10m

Note: REC (Back)

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		53.2800	24.60	-11.13	13.47	30.00	-16.53	QP	
2		125.0600	28.70	-13.24	15.46	30.00	-14.54	QP	
3		160.9500	24.83	-11.51	13.32	30.00	-16.68	QP	
4		834.1300	23.91	1.27	25.18	37.00	-11.82	QP	
5	*	951.5000	23.76	3.22	26.98	37.00	-10.02	QP	
6		986.4200	23.84	2.90	26.74	37.00	-10.26	QP	

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

File: MH-2018-90208\Data #14

Page: 1

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Config_3_V

Site: SGS 10m Chamber

Polarization: **Vertical**

Temperature: 24 °C

Limit: CISPR22 Class B 10M Radiation

Power: AC 120V/60Hz

Humidity: 66 %

Mode: Config_3

Distance: 10m

Note: REC (Back)

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		30.5700	28.95	-12.11	16.84	30.00	-13.16	QP	
2	*	75.5900	35.89	-14.45	21.44	30.00	-8.56	QP	
3		85.2900	37.90	-16.72	21.18	30.00	-8.82	QP	
4		113.9900	31.87	-13.72	18.15	30.00	-11.85	QP	
5		123.2800	33.48	-12.90	20.58	30.00	-9.42	QP	
6		935.0100	23.98	1.99	25.97	37.00	-11.03	QP	

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

File: MH-2018-90208\Data #13

Page: 1

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Above 1GHz

1GMz-18GMz

Config_1_H

Site: SGS 966 Chamber A

Polarization: **Horizontal**

Temperature: 24 °C

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

Power: AC 120V/60Hz

Humidity: 60 %

Mode: Config 1

Distance:

Note:

Radiated Emission

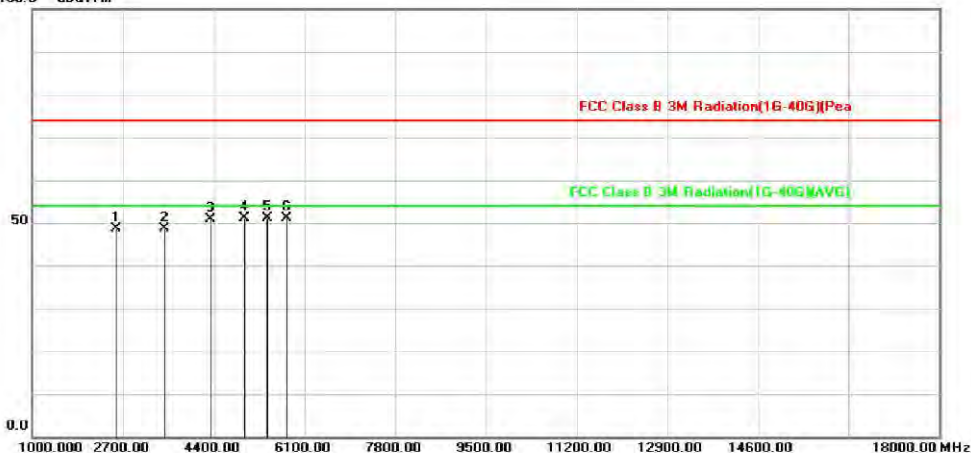
File :90208

Data :#22

Date: 2018/10/1

Time: 下午 08:55:29

100.0 dBuV/m



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		2564.000	59.98	-11.32	48.66	74.00	-25.34	peak	
2		3482.000	59.32	-10.66	48.66	74.00	-25.34	peak	
3		4332.000	58.76	-7.91	50.85	74.00	-23.15	peak	
4 *		4978.000	58.29	-7.12	51.17	74.00	-22.83	peak	
5		5403.000	57.42	-6.30	51.12	74.00	-22.88	peak	
6		5760.000	56.45	-5.33	51.12	74.00	-22.88	peak	

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

File :90208\Data :#22

Page: 1

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Config 1_V

Site: SGS 966 Chamber A

Polarization: **Vertical**

Temperature: 24 °C

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

Power: AC 120V/60Hz

Humidity: 60 %

Mode: Config 1

Distance:

Note:

Radiated Emission

File :90208

Data :#21

Date: 2018/10/1

Time: 下午 07:53:16

100.0 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2615.000	60.04	-11.41	48.63	74.00	-25.37	peak	
2		2853.000	59.43	-11.84	47.59	74.00	-26.41	peak	
3		3584.000	58.91	-10.22	48.69	74.00	-25.31	peak	
4		4536.000	57.61	-7.65	49.96	74.00	-24.04	peak	
5		5029.000	56.84	-7.04	49.80	74.00	-24.20	peak	
6	*	5726.000	57.04	-5.41	51.63	74.00	-22.37	peak	

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

File :90208\Data :#21

Page: 1

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Config 2_H

Site: SGS 966 Chamber A

Polarization: **Horizontal**

Temperature: 24 °C

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

Power: AC 120V/60Hz

Humidity: 60 %

Mode: Config 2

Distance:

Note:

Radiated Emission

File :90208

Data :#24

Date: 2018/10/1

Time: 下午 08:04:57

100.0 dBuV/m



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		2241.000	59.43	-14.31	45.12	74.00	-28.88	peak	
2		2632.000	58.76	-11.44	47.32	74.00	-26.68	peak	
3		4332.000	57.76	-7.91	49.85	74.00	-24.15	peak	
4		4978.000	57.79	-7.12	50.67	74.00	-23.33	peak	
5		5403.000	57.42	-6.30	51.12	74.00	-22.88	peak	
6	*	5760.000	56.95	-5.33	51.62	74.00	-22.38	peak	

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

File :90208\Data :#24

Page: 1

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Config 2_V

Site: SGS 966 Chamber A

Polarization: **Vertical**

Temperature: 24 °C

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

Power: AC 120V/60Hz

Humidity: 60 %

Mode: Config 2

Distance:

Note:

Radiated Emission

File :90208

Data :#23

Date: 2018/10/1

Time: 下午 08:02:15

100.0 dBuV/m



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		2615.000	59.54	-11.41	48.13	74.00	-25.87	peak	
2		3584.000	59.41	-10.22	49.19	74.00	-24.81	peak	
3		4094.000	58.12	-8.19	49.93	74.00	-24.07	peak	
4		4536.000	58.11	-7.65	50.46	74.00	-23.54	peak	
5		5029.000	56.84	-7.04	49.80	74.00	-24.20	peak	
6	*	5726.000	57.04	-5.41	51.63	74.00	-22.37	peak	

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

File :90208\Data :#23

Page: 1

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Config_3_H

Site: SGS 966 Chamber A

Polarization: **Horizontal**

Temperature: 24 °C

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

Power: AC 120V/60Hz

Humidity: 60 %

Mode: Config 3

Distance:

Note:

Radiated Emission

File :90208

Data :#20

Date: 2018/10/1

Time: 下午 07:51:41

100.0 dBuV/m



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		2632.000	58.26	-11.44	46.82	74.00	-27.18	peak	
2		4060.000	57.79	-8.23	49.56	74.00	-24.44	peak	
3		4332.000	58.26	-7.91	50.35	74.00	-23.65	peak	
4		4978.000	58.29	-7.12	51.17	74.00	-22.83	peak	
5		5403.000	57.92	-6.30	51.62	74.00	-22.38	peak	
6 *		5760.000	57.45	-5.33	52.12	74.00	-21.88	peak	

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

File :90208\Data :#20

Page: 1

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Config_3_V

Site: SGS 966 Chamber A

Polarization: **Vertical**

Temperature: 24 °C

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

Power: AC 120V/60Hz

Humidity: 60 %

Mode: Config 3

Distance:

Note:

Radiated Emission

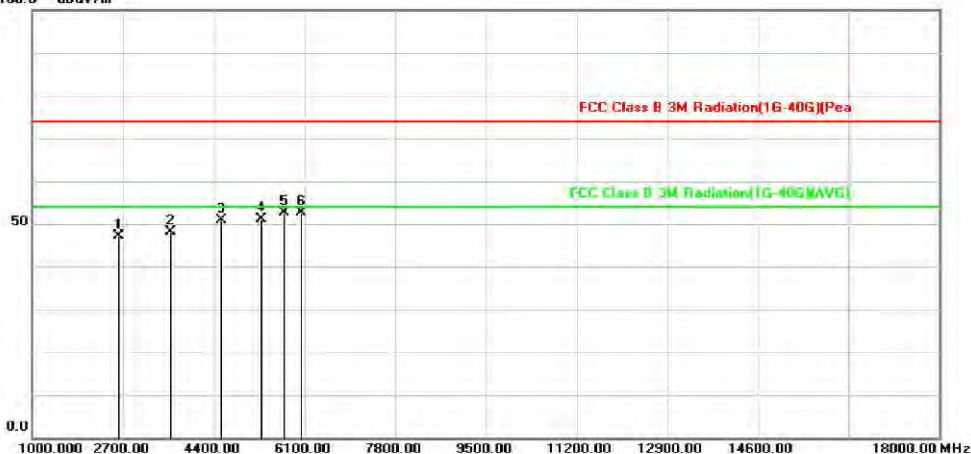
File :90208

Data :#19

Date: 2018/10/1

Time: 下午 07:50:13

100.0 dBuV/m



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		2615.000	58.54	-11.41	47.13	74.00	-26.87	peak	
2		3584.000	58.41	-10.22	48.19	74.00	-25.81	peak	
3		4536.000	58.61	-7.65	50.96	74.00	-23.04	peak	
4		5284.000	57.61	-6.53	51.08	74.00	-22.92	peak	
5		5726.000	58.04	-5.41	52.63	74.00	-21.37	peak	
6 *		6032.000	57.05	-4.37	52.68	74.00	-21.32	peak	

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

File :90208\Data :#19

Page: 1

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18GMz-30GMz

Config_1_H

Site: SGS 966 Chamber A

Polarization: **Horizontal**

Temperature: 24 °C

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

Power: AC 120V/60Hz

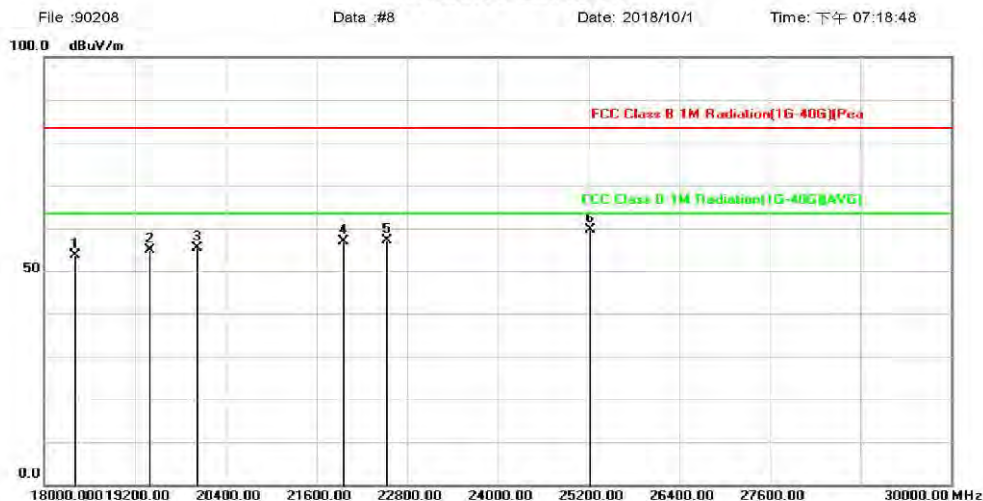
Humidity: 60 %

Mode: Config 1

Distance:

Note:

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		18408.000	52.33	1.27	53.60	83.50	-29.90	peak	
2		19392.000	53.31	1.62	54.93	83.50	-28.57	peak	
3		20016.000	52.70	2.70	55.40	83.50	-28.10	peak	
4		21960.000	51.93	4.93	56.86	83.50	-26.64	peak	
5		22536.000	51.76	5.41	57.17	83.50	-26.33	peak	
6	*	25224.000	53.71	5.81	59.52	83.50	-23.98	peak	

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

File :90208\Data :#8

Page: 1

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Config 1_V

Site: SGS 966 Chamber A

Polarization: **Vertical**

Temperature: 24 °C

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

Power: AC 120V/60Hz

Humidity: 60 %

Mode: Config 1

Distance:

Note:

Radiated Emission

File :90208

Data :#7

Date: 2018/10/1

Time: 下午 07:16:22

100.0 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		18408.000	52.11	1.27	53.38	83.50	-30.12	peak	
2		20028.000	51.78	2.70	54.48	83.50	-29.02	peak	
3		21420.000	50.89	3.96	54.85	83.50	-28.65	peak	
4		22608.000	50.54	5.42	55.96	83.50	-27.54	peak	
5		23724.000	49.33	5.91	55.24	83.50	-28.26	peak	
6	*	24672.000	50.64	6.23	56.87	83.50	-26.63	peak	

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

File :90208\Data :#7

Page: 1

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Config 2_H

Site: SGS 966 Chamber A

Polarization: **Horizontal**

Temperature: 24 °C

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

Power: AC 120V/60Hz

Humidity: 60 %

Mode: Config 2

Distance:

Note:

Radiated Emission

File :90208

Data :#10

Date: 2018/10/1

Time: 下午 07:30:25



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		18804.000	52.82	1.26	54.08	83.50	-29.42	peak	
2		20016.000	52.20	2.70	54.90	83.50	-28.60	peak	
3		21384.000	51.42	3.89	55.31	83.50	-28.19	peak	
4		21960.000	51.43	4.93	56.36	83.50	-27.14	peak	
5		24636.000	50.52	6.23	56.75	83.50	-26.75	peak	
6	*	25224.000	51.71	5.81	57.52	83.50	-25.98	peak	

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

File :90208\Data :#10

Page: 1

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Config 2_V

Site: SGS 966 Chamber A

Polarization: **Vertical**

Temperature: 24 °C

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

Power: AC 120V/60Hz

Humidity: 60 %

Mode: Config 2

Distance:

Note:

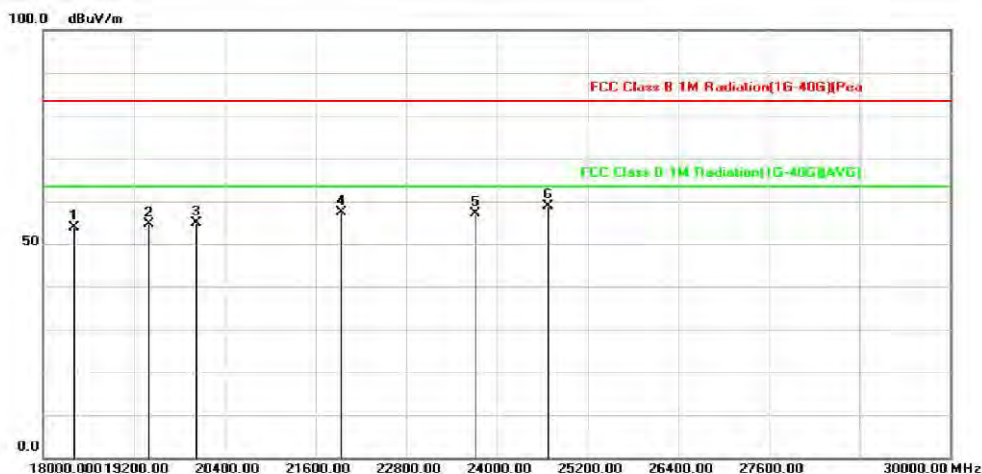
Radiated Emission

File :90208

Data :#9

Date: 2018/10/1

Time: 下午 07:29:10



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	dBuV	Factor	ment			Detector	Comment
1		18408.000	52.61	1.27	53.88	83.50	-29.62	peak	
2		19392.000	52.93	1.62	54.55	83.50	-28.95	peak	
3		20028.000	52.28	2.70	54.98	83.50	-28.52	peak	
4		21948.000	52.50	4.90	57.40	83.50	-26.10	peak	
5		23724.000	51.33	5.91	57.24	83.50	-26.26	peak	
6	*	24672.000	52.64	6.23	58.87	83.50	-24.63	peak	

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

File :90208\Data :#9

Page: 1

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Config_3_H

Site: SGS 966 Chamber A

Polarization: **Horizontal**

Temperature: 24 °C

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

Power: AC 120V/60Hz

Humidity: 60 %

Mode: Config 3

Distance:

Note:

Radiated Emission

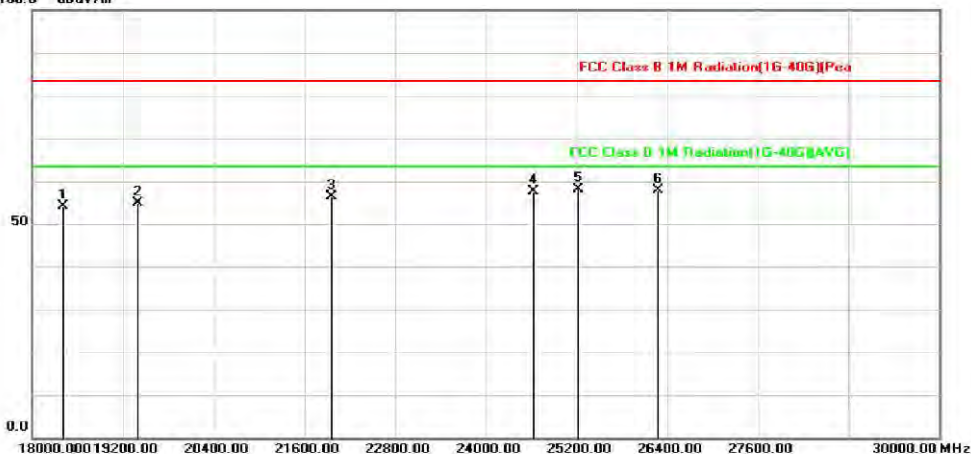
File :90208

Data :#12

Date: 2018/10/1

Time: 下午 07:39:02

100.0 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		18408.000	52.83	1.27	54.10	83.50	-29.40	peak	
2		19392.000	53.31	1.62	54.93	83.50	-28.57	peak	
3		21960.000	51.43	4.93	56.36	83.50	-27.14	peak	
4		24636.000	51.52	6.23	57.75	83.50	-25.75	peak	
5	*	25224.000	52.21	5.81	58.02	83.50	-25.48	peak	
6		26280.000	51.88	5.94	57.82	83.50	-25.68	peak	

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

File :90208\Data :#12

Page: 1

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Config_3_V

Site: SGS 966 Chamber A

Polarization: **Vertical**

Temperature: 24 °C

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

Power: AC 120V/60Hz

Humidity: 60 %

Mode: Config 3

Distance:

Note:

Radiated Emission

File :90208

Data :#11

Date: 2018/10/1

Time: 下午 07:37:41

100.0 dBuV/m



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		18408.000	52.61	1.27	53.88	83.50	-29.62	peak	
2		19392.000	51.93	1.62	53.55	83.50	-29.95	peak	
3		20364.000	51.74	2.70	54.44	83.50	-29.06	peak	
4		21780.000	50.28	4.60	54.88	83.50	-28.62	peak	
5		22608.000	50.04	5.42	55.46	83.50	-28.04	peak	
6	*	24672.000	51.64	6.23	57.87	83.50	-25.63	peak	

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

File :90208\Data :#11

Page: 1

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