

FCC ID: APYHRO00259 Report No.: MH/2018/30032

Page: 1 of 51

FCC CERTIFICATION REPORT

Test Report No. : MH/2018/30032

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 ~ 28, 2018

Date of Issue : Apr. 09, 2018

Test Result: **PASS**

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

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report shall not be reproduced except in full, without the written approval of the laboratory. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

Tested By:

Thomas Liu (Engineer)

Date

Apr. 09, 2018

Approved By

Date

Apr. 09, 2018

Eddy Cheng (Asst. Supervisor)



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Report No.: MH/2018/30032 FCC ID: APYHRO00259

Page: 2 of 51

Revision History

Report Number	Revision	Description	Issue Date
MH/2018/30032	Rev.00	Initial creation of document	Apr. 09, 2018

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Page: 3 of 51

Contents

1. GENERAL INFORMATION	4
1.1 APPLICANT & MANUFACTURER INFORMATION	4
1.2 GENERAL DESCRIPTION OF EUT	4
1.3 DETAILS OF EUT	4
1.4 OPERATION PROCEDURE	5
1.5 DESCRIPTION OF SUPPORT UNITS	6
1.6 MODIFICATION LIST	6
1.7 Accessories Cable List	6
1.8 Test Set-Up Configuration	7
1.9 Measurement Procedure	8
1.10 STANDARDS APPLICABLE FOR TESTING	8
1.11 SUMMARY OF RESULTS	8
2. EMISSION	9
2.1 Test Results	0
2.2 FREQUENCY RANGE	
2.3 LIMITS OF CONDUCTED AND RADIATED EMISSION	
2.3.1 LIMITS OF CONDUCTED EMISSION	
2.3.2 LIMITS OF RADIATED EMISSIONS	
2.4.Test of Conducted Emission	
2.4.1 TEST EQUIPMENTS	
2.4.2 OPERATING ENVIRONMENT	11
2.4.3 MEASUREMENT LEVEL CALCULATION	11
2.4.4 MEASUREMENT DATA:	12
2.5 TEST OF RADIATED EMISSION	22
2.5.1 TEST EQUIPMENTS	22
2.5.2 OPERATING ENVIRONMENT	24
2.5.3 MEASUREMENT LEVEL CALCULATION	24
2.5.4 MEASUREMENT DATA	25
3. PHOTOGRAPHS OF TEST	43

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Report No.: MH/2018/30032

Page: 4 of 51

1. General Information

1.1 Applicant & Manufacturer Information

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Hiroshima, 739-0192, Japan

Manufacturer : Sharp Corporation

Address of Manufacturer: 1 Takumi-cho, Sakai-ku, Sakai City, Osaka 590-

8522, Japan

1.2 General Description of EUT

Product Name : Smart phone

1.3 Details of EUT

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

Highest operate description : 1886 MHz

. Model No.: UBATIA286AFN2 **Battery**

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

3.85V, 3130mAh

Worst case : CE worst case : Config 3

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

Normal Memory LP4: Samsung / UPC: Toshiba	V
LP4: Samsung / UPC: Samsung	V
LP4: Micron / UPC: Toshiba	Worst case
LP4: Micron / UPC: Samsung	V

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Report No.: MH/2018/30032

Page: 5 of 51

Accessories List: AC Charger : HOSIDEN/AC アダプタ 06 Data Cable : Luxshare-ICT/L6KU3003-CS-R Headset : Sony / MDR-EX15AP	Config 1	Config2	Config 3	
Applicable standard		FCC 15B		
Accessories	+ AC Adaptor +LISB Cable	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 BV LTE B05/B12/B17	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 BV LTE B05/B12/B17	Data R/W	MP3/ ;REC mode (Front/Back) ;play REC	

1.4 Operation Procedure

Config 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 B5,LTE B5/B12/B17) and transmit data.
- 6. Set up GPS simulator and turn on GPS test app.
- 7. Start the test.

Config 2

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

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Page: 6 of 51



Confia 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	HOSIDEN	AC アダプタ 06	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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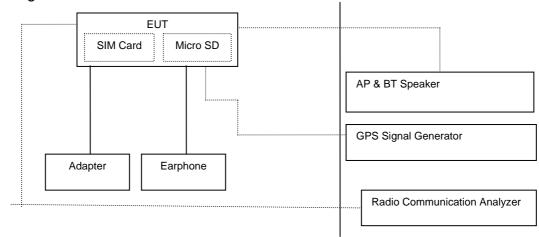
FCC ID: APYHRO00259 Report No.: MH/2018/30032

Page: 7 of 51

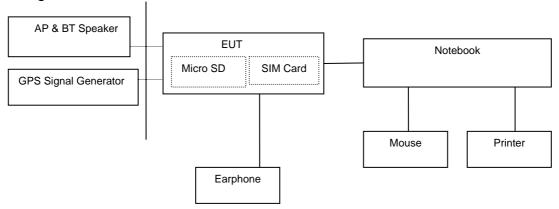


1.8 Test Set-Up Configuration

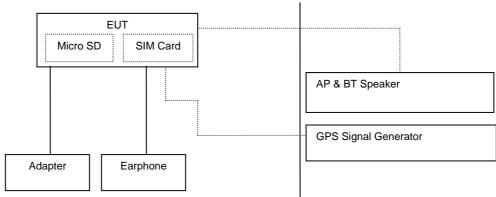
Config 1



Config 2



Config 3



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Report No.: MH/2018/30032

Page: 8 of 51

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

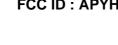
1.11 Summary of Results

Highest Emission					
Standard Test Type Result Phase/Pol. Frequency(MHz) Margin(dB)					
CCC Dart 15 Cultinant D	Conducted Emission	PASS	Line	0.1580	-2.63 (QP)
FCC Part 15 Subpart B Class B			Neutral	0.1620	-2.64 (QP)
UI455 D	Radiated Emission	PASS	Hor.	168.0040	-7.42 (QP)

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Report No.: MH/2018/30032

Page: 9 of 51



2. EMISSION

2.1 Test Results

	Results
Conducted Emission	Pass
Radiated Emission	Pass

2.2 Frequency Range

FCC Part 15, Subpart B:

Conducted Emission : 150 kHz - 30 MHz Radiated Emission : See below table

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

device operates or tunes (MHz)

Below 1.705 30 1.705 - 1081000 108 - 500 2000 500 - 1000 5000

5th harmonic of the highest frequency or Above 1000

40 GHz, whichever is lower

2.3 Limits of Conducted and Radiated Emission

2.3.1 Limits of Conducted Emission

FCC Part 15, Subpart B/CISPR 22:

FREQUENCY	Class A	(dBuV)	Class B	(dBuV)
(MHz)	Quasi - peak	Average	Quasi - peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

Note: (1) The lower limit shall apply at the transition frequencies.

- (2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.
- (3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected there to, shall not exceed the level of field strengths specified above.

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Page: 10 of 51



FCC Part 15, Subpart B Limit:

Detector Function : Quasi – Peak

- Bottootor r arr	- Bototol I dilotton: Quadi I bak			
FREQUENCY	Class A (at 10m)	Class B (at 3m)		
(MHz)	dBuV/m	dBuV/m		
30~88	39	40		
88~216	43.5	43.5		
216~960	46.44	46		
Above 960	49.54	54		

Detector Function: Peak, Average

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

CISPR 22 Limit:

Detector Function : Quasi – Peak

FREQUENCY	Class A (at 10m)	Class B (at 10m)
(MHz)	dBuV/m	dBuV/m
30-230	40	30
230-1000	47	37

NOTE 1 The lower limit shall apply at the transition frequency.

NOTE 2 Additional provisions may be required for cases where interference occurs.

FREQUENCY	Class A (dE	suV/m) (at 3m)	Class B (dB	uV/m) (at 3m)
(GHz)	Average	Peak	Average	Peak
1~3	56	76	50	70
3~6	60	80	54	74

NOTE The lower limit applies at the transition frequency.

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Page: 11 of 51



2.4.Test of Conducted Emission

2.4.1 Test Equipments

SG	SS Conducted_Emis	ssion HWAYA Conducte	d Room No.A_E	MC	
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.

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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

Humidity: 63 %RH Temperature: 21 degree C

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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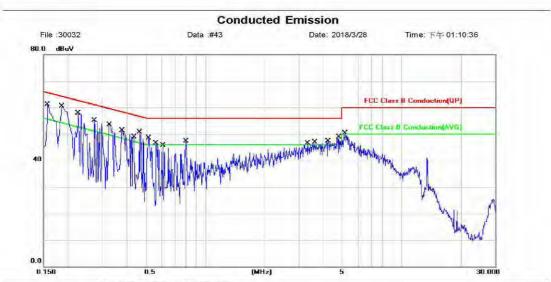
Page: 12 of 51

2.4.4 Measurement Data:

Config_1_L

Temperature: Site: Conduction Room Phase: AC 120V/60Hz Humidity: 63 % Limit: FCC Class B Conduction(QP) Power:

Mode: Config 1 Note: LTE B17



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1580	50.80	0.12	50.92	65.57	-14.65	QP	
2		0.1580	27.10	0.12	27.22	55,57	-28.35	AVG	
3		0.1860	52.00	0.11	52.11	64.21	-12.10	QP	
4		0.1860	29.60	0.11	29.71	54.21	-24.50	AVG	
5		0.2260	45.10	0.11	45.21	62.60	-17.39	QP	
6		0.2260	21.10	0.11	21.21	52.60	-31.39	AVG	
7		0.2740	42.40	0.11	42.51	61.00	-18.49	QP	
8		0.2740	14.60	0.11	14.71	51.00	-36.29	AVG	
9		0.3260	39.80	0.12	39.92	59.55	-19.63	QP	
10	A F T	0.3260	16.60	0.12	16.72	49.55	-32.83	AVG	
11		0.3780	39.20	0.12	39.32	58.32	-19.00	QP	
12	1 1 1	0.3780	17.00	0.12	17.12	48.32	-31.20	AVG	
13	-	0.4340	34.30	0.12	34.42	57.18	-22.76	QP	

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

File :30032\Data :#43

Page: 1

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Page: 13 of 51



0.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
4		0.4340	14.50	0.12	14.62	47.18	-32.56	AVG	
5		0.4610	41.30	0.12	41.42	56.67	-15.25	QP	
6		0.4610	27.80	0.12	27.92	46.67	-18.75	AVG	
7		0.5180	33.90	0.12	34.02	56.00	-21.98	QP	
8		0.5180	22.60	0.12	22.72	46.00	-23.28	AVG	
9		0.5620	30.90	0.12	31.02	56.00	-24.98	QP	
20		0.5620	16.30	0.12	16.42	46.00	-29.58	AVG	
21		0.6100	31.90	0.12	32.02	56.00	-23.98	QP	
22		0.6100	20.40	0.12	20.52	46.00	-25.48	AVG	
23		0.7948	45.60	0.13	45.73	56.00	-10.27	QP	
24	*	0.7948	37.30	0.13	37.43	46.00	-8.57	AVG	
25		3.3380	36.00	0.26	36.26	56.00	-19.74	QP	
26		3.3380	22.90	0.26	23.16	46.00	-22.84	AVG	
27		3.6260	33.20	0.27	33.47	56.00	-22.53	QP	
28		3.6260	21.10	0.27	21.37	46.00	-24.63	AVG	
29		4.2460	38.60	0.27	38.87	56.00	-17.13	QP	
30		4.2460	24.40	0.27	24.67	46.00	-21.33	AVG	
31		4.8220	40.40	0.28	40.68	56.00	-15.32	QP	
32		4.8220	25.90	0.28	26.18	46.00	-19.82	AVG	
33		5.1540	40.30	0.29	40.59	60.00	-19.41	QP	
34		5.1540	26.00	0.29	26.29	50.00	-23.71	AVG	

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

File :30032\Data :#43

Page: 2

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Report No.: MH/2018/30032

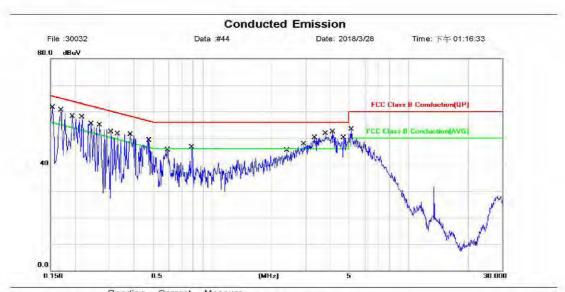
Page: 14 of 51



Config_1_N

Temperature: 21 % Site: Conduction Room Phase: L1 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 63 %

Mode: Config 1 Note: LTE B17



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1540	53.40	0.04	53.44	65.78	-12.34	QP	
2		0.1540	29.40	0.04	29.44	55.78	-26.34	AVG	
3		0.1700	51.20	0.04	51.24	64.96	-13.72	QP	
4		0.1700	29.20	0.04	29.24	54.96	-25.72	AVG	
5		0.1940	48.70	0.03	48.73	63.86	-15.13	QP	
6	4	0.1940	27.10	0.03	27.13	53.86	-26.73	AVG	
7		0.2180	47.10	0.03	47.13	62.89	-15.76	QP	
8		0.2180	26.60	0.03	26.63	52.89	-26.26	AVG	
9	E.	0.2420	46.40	0.03	46.43	62.03	-15.60	QP	
10	A	0.2420	24.30	0.03	24.33	52.03	-27.70	AVG	
11		0.2660	45.00	0.03	45.03	61.24	-16.21	QP	
12	1	0.2660	18.80	0.03	18.83	51.24	-32.41	AVG	
13		0.3060	42.00	0.04	42.04	60.08	-18.04	QP	

^{*:}Maximum data !:over margin x:Over limit

File :30032\Data :#44

Page: 1

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Report No.: MH/2018/30032

Page: 15 of 51

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
14		0.3060	17.20	0.04	17.24	50.08	-32.84	AVG	
15		0.3300	41.00	0.04	41.04	59.45	-18.41	QP	
16		0.3300	21.90	0.04	21.94	49.45	-27.51	AVG	
17		0.3820	39.10	0.04	39.14	58.24	-19.10	QP	
18		0.3820	19.60	0.04	19.64	48.24	-28.60	AVG	
19		0.4813	46.10	0.04	46.14	56.32	-10.18	QP	
20		0.4813	37.60	0.04	37.64	46.32	-8.68	AVG	
21		0.5940	31.80	0.05	31.85	56.00	-24.15	QP	
22		0.5940	17.40	0.05	17.45	46.00	-28.55	AVG	
23		0.7962	46.80	0.06	46.86	56.00	-9.14	QP	
24.	*	0.7962	40.80	0.06	40.86	46.00	-5.14	AVG	
25		2.4060	35.20	0.27	35.47	56.00	-20.53	QP	
26		2.4060	21.70	0.27	21.97	46.00	-24.03	AVG	
27		2.9420	37.60	0.31	37.91	56.00	-18.09	QP	
28		2.9420	24.30	0.31	24.61	46.00	-21.39	AVG	
29		3.3260	40.20	0.33	40.53	56.00	-15.47	QP	
30		3.3260	25.60	0.33	25.93	46.00	-20.07	AVG	
31		3.7820	40.70	0.36	41.06	56.00	-14.94	QP	
32		3.7820	27.00	0.36	27.36	46.00	-18.64	AVG	
33		4.1340	40.90	0.38	41.28	56.00	-14.72	QP	
34		4.1340	26.10	0.38	26.48	46.00	-19.52	AVG	
35	1	4.6700	46.00	0.40	46.40	56.00	-9.60	QP	
36		4.6700	33.40	0.40	33.80	46.00	-12.20	AVG	
37		5.1300	37.10	0.42	37.52	60.00	-22.48	QP	
38		5.1300	23.90	0.42	24.32	50.00	-25.68	AVG	

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

File 30032\Data #44

Page 2

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Report No.: MH/2018/30032

Page: 16 of 51



Config_2_L

Power:

Site: Conduction Room

Limit: FCC Class B Conduction(QP)

Mode: Config 2

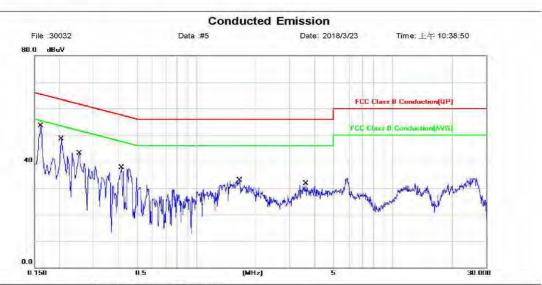
Note: AC 120V/60Hz , Data R/W (Read)

Phase: L1

From System

Temperature: 17 °C

Humidity: 49 %



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1620	47.00	0.04	47.04	65.36	-18.32	QP	
2		0.1620	30.80	0.04	30.84	55,36	-24.52	AVG	
3		0.2060	45.90	0.03	45.93	63.37	-17.44	QP	
4		0.2060	35.00	0.03	35.03	53.37	-18.34	AVG	
5		0.2540	41.70	0.03	41.73	61.63	-19.90	QP	
6	*	0.2540	34.70	0.03	34.73	51.63	-16.90	AVG	
7		0.4180	35.20	0.04	35.24	57.49	-22.25	QP	
8		0.4180	23.20	0.04	23.24	47.49	-24.25	AVG	
9		1.6700	28.60	0.19	28.79	56.00	-27.21	QP	
10		1.6700	20.50	0.19	20.69	46.00	-25.31	AVG	
11		3.6340	25,60	0.35	25.95	56.00	-30.05	QP	
12		3.6340	19.20	0.35	19.55	46.00	-26.45	AVG	

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

File :30032\Data :#5

Page: 1

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Page: 17 of 51

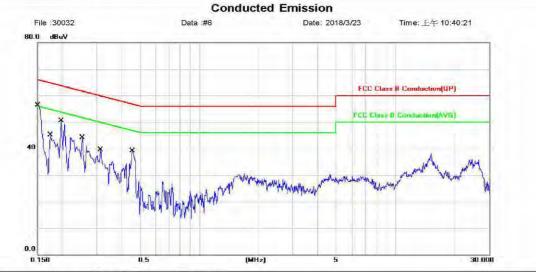


Config_2_N

Temperature: 17 °C Site: Conduction Room Phase: Power: From System Humidity: 49 %

Limit: FCC Class B Conduction(QP)

Mode: Config 2 Note: AC 120V/60Hz , Data R/W (Read)



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1500	53.50	0.12	53.62	66,00	-12.38	QP	
2		0.1500	38.70	0.12	38.82	56.00	-17.18	AVG	
3		0.1740	46.10	0.12	46.22	64.77	-18.55	QP	
4		0.1740	27.40	0.12	27.52	54.77	-27.25	AVG	
5		0.1980	44.10	0.11	44.21	63.69	-19.48	QP	
6		0.1980	29.50	0.11	29.61	53.69	-24.08	AVG	
7		0.2540	40.50	0.11	40.61	61.63	-21.02	QP	
8		0.2540	32.20	0.11	32.31	51.63	-19.32	AVG	
9		0.3140	34.20	0.12	34.32	59.86	-25.54	QP	
10		0.3140	24.10	0.12	24.22	49.86	-25.64	AVG	
11		0.4580	36.70	0.12	36.82	56.73	-19.91	QP	
12		0.4580	31.30	0.12	31.42	46.73	-15.31	AVG	
_									

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

File :30032\Data :#6 Page: 1

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Report No.: MH/2018/30032

Page: 18 of 51

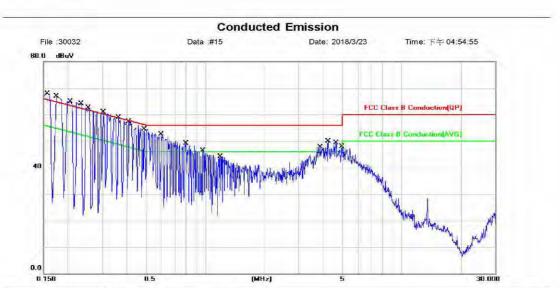
Config_3_L

Site: Conduction Room

Limit: FCC Class B Conduction(QP)

Mode: Config 3 Note: play REC Phase: L1 Power: AC 120V/60Hz

Temperature: 17 °C Humidity: 49 %



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1580	62.90	0.04	62.94	65.57	-2.63	QP	
2		0.1580	35.10	0.04	35.14	55,57	-20.43	AVG	
3		0.1740	61.70	0.04	61.74	64.77	-3.03	QP	
4	- 1	0.1740	35.20	0.04	35.24	54.77	-19.53	AVG	
5		0.2060	59.60	0.03	59.63	63.37	-3.74	QP	
6		0.2060	32.90	0.03	32.93	53.37	-20.44	AVG	
7		0.2340	59.00	0.03	59.03	62.31	-3.28	QP	
8		0.2340	30.00	0.03	30.03	52.31	-22.28	AVG	
9	j.	0.2540	57.80	0.03	57.83	61.63	-3.80	QP	
10	/	0.2540	29,60	0.03	29.63	51.63	-22.00	AVG	
11		0.3020	56.20	0.04	56.24	60.19	-3.95	QP	
12		0.3020	28.20	0.04	28.24	50.19	-21.95	AVG	
13		0.3620	54.10	0.04	54.14	58.68	-4.54	QP	

^{*:}Maximum data x:Over limit !:over margin

File :30032\Data :#15

Page: 1

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Page: 19 of 51



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
14		0.3620	30.50	0.04	30.54	48.68	-18.14	AVG	
15		0.4100	52.40	0.04	52.44	57.65	-5.21	QP	
16		0.4100	25.90	0.04	25.94	47.65	-21.71	AVG	
17		0.4900	49.60	0.04	49.64	56.17	-6.53	QP	
18		0.4900	28.50	0.04	28.54	46.17	-17.63	AVG	
19		0.5980	46.70	0.05	46.75	56.00	-9.25	QP	
20		0.5980	22.40	0.05	22.45	46.00	-23,55	AVG	
21		0.7980	44.40	0.06	44.46	56.00	-11.54	QP	
22		0.7980	39.30	0.06	39.36	46.00	-6.64	AVG	
23		0.9740	39.20	0.07	39.27	56.00	-16.73	QP	
24.		0.9740	19.20	0.07	19.27	46.00	-26.73	AVG	
25		1.1940	36.80	0.10	36.90	56.00	-19.10	QP	
26		1.1940	19.10	0.10	19.20	46.00	-26.80	AVG	
27		3.8740	41.90	0.37	42.27	56.00	-13.73	QP	
28		3.8740	25.30	0.37	25.67	46.00	-20.33	AVG	
29		4.2380	40.40	0.39	40.79	56.00	-15.21	QP	
30		4.2380	24.20	0.39	24.59	46.00	-21.41	AVG	
31		4.6420	42.70	0.40	43.10	56.00	-12.90	QP	
32		4.6420	27.70	0.40	28.10	46.00	-17.90	AVG	
33		4.9660	41.90	0.41	42.31	56.00	-13.69	QP	
34		4.9660	27.40	0.41	27.81	46.00	-18.19	AVG	

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

File :30032\Data :#15

Page 2

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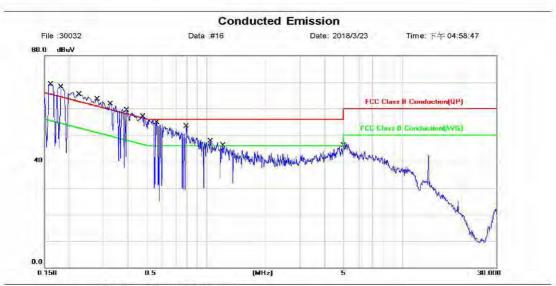


Page: 20 of 51

Config_3_N

Temperature: 17 °C Site: Conduction Room Phase: Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 49 %

Mode: Config 3 Note: play REC



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1620	62.60	0.12	62.72	65.36	-2.64	QP	
2		0.1620	34.80	0.12	34.92	55.36	-20.44	AVG	
3		0.1820	60.00	0.11	60.11	64.39	-4.28	QP	
4		0.1820	29.90	0.11	30.01	54.39	-24.38	AVG	
5		0.2267	58.40	0.11	58.51	62.57	-4.06	QP	
6		0.2267	28.60	0.11	28.71	52.57	-23.86	AVG	
7		0.2780	56.00	0.11	56.11	60.88	-4.77	QP	
8		0.2780	26.20	0.11	26.31	50.88	-24.57	AVG	
9		0.3260	54.90	0.12	55,02	59.55	-4.53	QP	
10		0.3260	28.40	0.12	28.52	49.55	-21.03	AVG	
11		0.3940	52.20	0.12	52.32	57.98	-5.66	QP	
12		0.3940	25.10	0.12	25.22	47.98	-22.76	AVG	
13		0.4780	50.00	0.12	50.12	56.37	-6.25	QP	

^{*:}Maximum data x:Over limit !:over margin

File :30032\Data :#16

Page: 1

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Page: 21 of 51



No. M	lk. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
14	0.4780	23.70	0.12	23.82	46.37	-22.55	AVG	
15	0.5620	47.10	0.12	47.22	56.00	-8.78	QP	
16	0.5620	23.80	0.12	23.92	46.00	-22.08	AVG	
17	0.7940	43.40	0.13	43.53	56.00	-12.47	QP	
18	0.7940	31.80	0.13	31.93	46.00	-14.07	AVG	
19	1.0500	39.20	0.14	39.34	56.00	-16.66	QP	
20	1.0500	18.30	0.14	18.44	46.00	-27.56	AVG	
21	1.2180	37.50	0.15	37.65	56.00	-18.35	QP	
22	1.2180	20.30	0.15	20.45	46.00	-25.55	AVG	
23	5.0000	38.80	0.29	39.09	56.00	-16.91	QP	
24.	5.0000	26.80	0.29	27.09	46.00	-18.91	AVG	

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

File :30032\Data :#16

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Page 2



Page: 22 of 51



2.5 Test of Radiated Emission

2.5.1 Test Equipments

Below 1GHz

	SGS Radiated_B	selow_1GHz HWAYA	10m_EMC		
EQUIPMENT TYPE	Manufacturer	Model Number	Serial	Calibration	Calibration
EQUIPMENT TYPE	Manufacturer	Model Number	Number	Date	Due
EMI Test Receiver	R&S	ESCI 7	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	2017/3/31	2018/3/30
Pre Amplifier	EMC Instruments Corp.	EMC330	980179	2017/3/31	2018/3/30
Coaxial Cable	EMC Instruments	EMCCFD400-NM- NM	150917	2017/9/18	2018/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM- NM	150919	2017/9/18	2018/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM- NM	150820	2017/9/18	2018/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM- NM	150918	2017/9/18	2018/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM- NM	150821	2017/9/18	2018/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM- NM	150822	2017/9/18	2018/9/17
Universal Digital Radio Communication Tester	R&S	CMU 200	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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Page: 23 of 51



Above 1GHz

	SGS Radiated_Ab	ove_1GHz HWAY	A 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	BBHA9120D67 3	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
Radio Communication Analyzer	Anritsu	MT8820C	6201465315	2017/12/10	2018/12/9
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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Measurement Uncertainty of Radiated Emission

Expanded uncertainty (k=2) of radiated emission measurement is 5.05 dB. (1-6GHz)

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

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

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

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

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

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

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

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

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

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

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

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Page: 24 of 51

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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Page: 25 of 51



2.5.4 Measurement Data

Below 1GHz

Config_1_H

Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

Mode: Config_1

Note: (2nd source of memory) 2-3

GSM 850

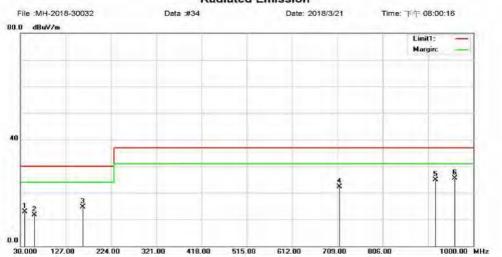
Polarization: Horizontal Power: AC 120V/60Hz

Temperature: 20 °C

Humidity: 52 %

Distance: 10m

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		39.7000	24.37	-11.53	12.84	30.00	-17.16	QP	
2		60,0700	23.70	-11.91	11.79	30.00	-18.21	QP	
3		163.8600	25.97	-11.19	14.78	30.00	-15.22	QP	
4		713.8500	23,66	-1.30	22.36	37.00	-14.64	QP	
5	.:-	918.5200	23.94	1.01	24.95	37.00	-12.05	QP	
6	*	960.2300	23.81	1.68	25.49	37.00	-11.51	QP	

l:over margin

File MH-2018-30032\Data :#34

Page: 1

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^{*:} Maximum data x:Over limit



Page: 26 of 51



Config_1_V

Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

Mode: Config_1

Note: (2nd source of memory) 2-3

GSM 850

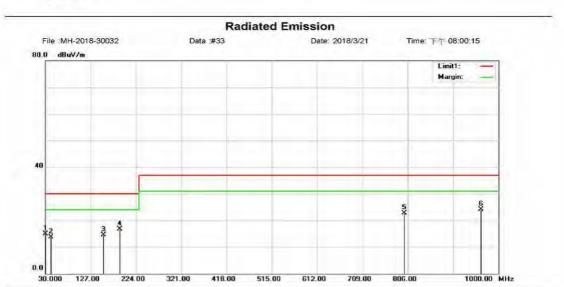
Polarization: Vertical

Power: AC 120V/60Hz

Distance: 10m

Temperature: 20 %

Humidity: 52 %



No.	lo. Mk.	c. Freq.	Freq.	k. Freq.	k. Freq.	t. Freq.	Freq.		Freq.	Freq.		Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment									
1		30.9700	27.31	-12.40	14.91	30.00	-15.09	QP										
2		41,6400	24.94	-11.22	13.72	30.00	-16.28	QP										
3		154.1600	25,47	-11.02	14.45	30.00	-15.55	QP										
4		189.0800	30.24	-13.50	16.74	30.00	-13.26	QP										
5		799,2100	22.78	-0.10	22.68	37.00	-14.32	QP										
6	*	963.1400	22.79	1.24	24.03	37.00	-12.97	QP										

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

File :MH-2018-30032\Data :#33

Page: 1

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Page: 27 of 51



Config_2_H

Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

Mode: Config_2

Note: (2nd source of memory) 2-3

Data Link (Write)

Polarization: Horizontal Temperature:

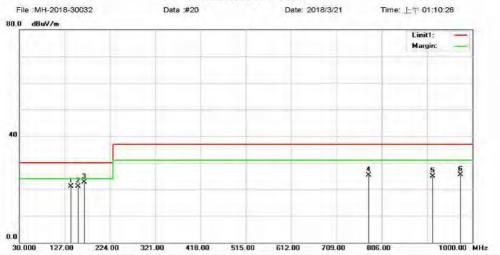
Humidity: 52 %

20 %

Distance: 10m

Power: From System

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		140.5580	33.10	-11.97	21 13	30.00	-8.87	QP	
2		155.6120	32.57	-11.37	21.20	30.00	-8.80	QP	
3	*	168.0040	33.96	-11.20	22.76	30.00	-7.24	QP	
4		777.6600	25.59	-0.32	25.27	37.00	-11.73	QP	
5		914.6400	23.94	0.93	24.87	37.00	-12,13	QP	
6		974.7800	23.90	1.65	25.55	37.00	-11.45	QP	

File :MH-2018-30032\Data :#20

Page: 1

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^{*:} Maximum data x:Over limit l:over margin



Report No.: MH/2018/30032

Page: 28 of 51

Config_2_V

Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

Mode: Config_2

Note: (2nd source of memory) 2-3

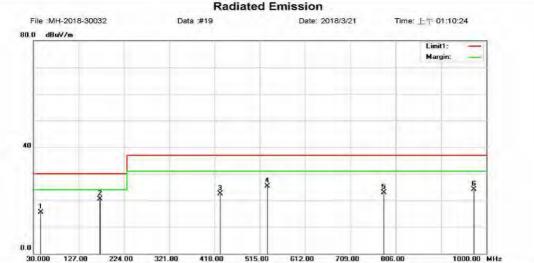
Data Link (Write)

Polarization: Vertical

Distance: 10m

Power: From System

Temperature: 20 % Humidity: 52 %



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		44.9800	26.37	-10.85	15.52	30.00	-14.48	QP	
2	*	171.7700	32.36	-11.92	20.44	30.00	-9.56	QP	
3		429.6400	29.29	-6.73	22.56	37.00	-14.44	QP	
4		530.9000	30.08	-4.72	25.36	37.00	-11.64	QP	
5		780.7800	22.97	-0.14	22.83	37.00	-14.17	QP	
6		972.8400	22.82	1.33	24.15	37.00	-12.85	QP	

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

File :MH-2018-30032\Data :#19

Page: 1

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Page: 29 of 51



Config_3_H

Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

Mode: Config_3

Note: (2nd source of memory) 2-3

REC mode (Back)

Polarization: Horizontal

Power: AC 120V/60Hz

Distance: 10m

Temperature: 20 %

Humidity: 52 %

Radiated Emission



No.	lo. Mk.	. Freq.	Freq.	Freq.	k. Freq.	Freq.	. Freq.	. Freq.	Level	Factor	ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment						
1		42.6100	24.86	-11.29	13.57	30.00	-16.43	QP							
2		56 1900	24.08	-11.59	12,49	30.00	-17.51	QP							
3		172.5900	25.25	-11.48	13.77	30.00	-16.23	QP							
4		759,4400	23.14	-0.44	22.70	37.00	-14.30	QP							
5		884.5700	22.86	0.45	23.31	37.00	-13,69	QP							
6	*	975.7500	23.26	1.64	24.90	37.00	-12.10	QP							

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

File :MH-2018-30032\Data :#44

Page: 1

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prosecuted to the fullest extent of the law.



Page: 30 of 51



Config_3_V

Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

Mode: Config_3

Note: (2nd source of memory) 2-3

REC mode (Back)

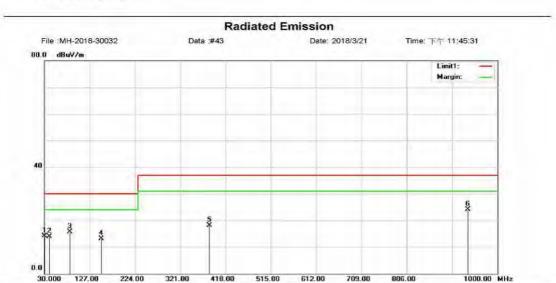
Polarization: Vertical

Power: AC 120V/60Hz

Distance: 10m

Temperature: 20 %

Humidity: 52 %



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		30.9700	26.45	-12.40	14.05	30.00	-15.95	QP	
2		40.6700	25,17	-11.32	13.85	30.00	-16.15	QP	
3		85.2900	32.40	-16.73	15.67	30.00	-14.33	QP	
4		152.2200	24.12	-10.97	13.15	30.00	-16,85	QP	
5		384.0500	26.34	-8.16	18.18	37.00	-18.82	QP	
6	*	936.9500	23.13	1.02	24.15	37.00	-12.85	QP	

File :MH-2018-30032\Data :#43

Page: 1

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^{*:} Maximum data x:Over limit cover margin



Report No.: MH/2018/30032

Page: 31 of 51



Above 1GHz

1GHz-18GHz Config 1 H

Site SGS 966 Chamber A

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

Mode: Confing 1 Note: GSM 850 Polarization: Horizontal Power: AC 120V/60Hz

Temperature: 22 °C

Humidity: 62 %

Distance:

Radiated Emission File:30032 Date: 2018/3/26 Time: 下午 06:23:35 Data :#8 FCC Class B 3M Radiation(1G-40G)(Pea 50 0.0 14600.00 18000 00 MHz 1000 000 2700 00 7800 00 9500.00 11200.00 12900.00

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		470
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		2853.000	59.63	-13.16	46.47	74.00	-27.53	peak	
2		3924.000	58.19	-9.82	48.37	74.00	-25.63	peak	
3		4383.000	57.90	-9.43	48.47	74.00	-25.53	peak	
4		4655.000	59.94	-8.72	51.22	74.00	-22.78	peak	
5		4655,000	45.93	-8.72	37.21	54.00	-16.79	AVG	
6	100	5199.000	58.89	-7.04	51.85	74.00	-22.15	peak	
7		5199.000	45.12	-7.04	38.08	54.00	-15.92	AVG	
8		5862.000	58.66	-5.93	52.73	74.00	-21.27	peak	
9	*	5862.000	44.50	-5.93	38.57	54.00	-15.43	AVG	

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

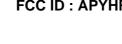
File: 30032\Data:#8

Page: 1

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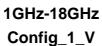
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FCC ID: APYHRO00259 Report No.: MH/2018/30032

Page: 32 of 51



Site SGS 966 Chamber A

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

Mode: Confing 1 Note: GSM 850 Polarization: Vertical Power: AC 120V/60Hz

Temperature: 22 °C

18000,00 MHz

Humidity: 62 %

Distance:

Radiated Emission File:30032 Data :#7 Date: 2018/3/26 Time: 下午 06:22:07 100.0 dRuV/m

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		2836.000	58.37	-13.19	45.18	74.00	-28.82	peak	
2		3567.000	58.50	-11.32	47.18	74.00	-26.82	peak	
3		3958,000	58.52	-9.67	48.85	74.00	-25.15	peak	
4		4723.000	58.44	-8.43	50.01	74.00	-23.99	peak	
5		5386.000	58.03	-6.89	51.14	74.00	-22.86	peak	
6	*	5386.000	44.91	-6.89	38.02	54.00	-15.98	AVG	
7		5981.000	57.30	-5.65	51.65	74.00	-22.35	peak	
8		5981.000	43.59	-5.65	37.94	54.00	-16.06	AVG	

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

File :30032\Data :#7

Page: 1

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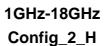
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Page: 33 of 51



Site SGS 966 Chamber A

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

Mode: Confing 2

Note: Data link(Write)

Polarization: Horizontal

Power: AC 120V/60Hz

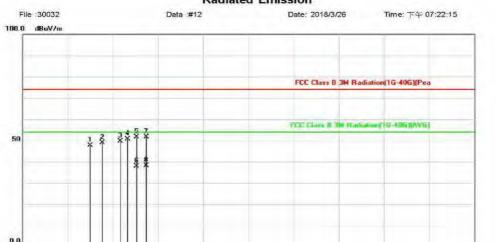
Temperature:

22 °C Humidity: 62 %

18000,00 MHz

Distance:

Radiated Emission



No.	Mk.	Mk. Freq.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1		3550.000	59.10	-11.39	47.71	74.00	-26.29	peak		
2		4009.000	58.28	-9.51	48.77	74.00	-25,23	peak		
3		4689.000	58.29	-8.57	49.72	74.00	-24.28	peak		
4		4961.000	58.06	-7.37	50.69	74.00	-23.31	peak		
5		5284.000	58.65	-6.97	51.68	74.00	-22.32	peak		
6		5284.000	44.92	-6,97	37.95	54.00	-16.05	AVG		
7		5658,000	58.08	-6.42	51.66	74.00	-22.34	peak		
8	*	5658.000	44.58	-6.42	38.16	54.00	-15.84	AVG		

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

File :30032\Data :#12

Page: 1

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Page: 34 of 51

1GHz-18GHz Config_2_V

Distance:

Site SGS 966 Chamber A

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

Polarization: Vertical Temperature: 22 °C

Mode: Confing 2

Power: AC 120V/60Hz

Humidity: 62 %

Note: Data link(Write)

Radiated Emission File:30032 Data :#11 Date: 2018/3/26 Time: 下午 07:20:59 100.0 dRuV/m 18000,00 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		3958.000	58.61	-9.67	48.94	74.00	-25.06	peak	
2		4281_000	58.75	-9.44	49.31	74.00	-24.69	peak	
3		4825.000	58.58	-7.97	50.61	74.00	-23.39	peak	
4		5012.000	58.02	-7.20	50.82	74.00	-23.18	peak	
5		5352.000	58.77	-6.92	51.85	74.00	-22.15	peak	
6		5352.000	45.14	-6.92	38.22	54.00	-15.78	AVG	
7		5777.000	58.23	-6.14	52.09	74.00	-21.91	peak	
8	*	5777.000	44.57	-6.14	38.43	54.00	-15.57	AVG	

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

File :30032\Data :#11

Page: 1

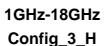
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Page: 35 of 51



Site SGS 966 Chamber A

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

Mode: Confing 3 Note: REC Mode Polarization: Horizontal

Power: AC 120V/60Hz

Temperature: 22 °C

18000,00 MHz

Humidity: 62 %

Distance:

Radiated Emission File:30032 Data :#10 Date: 2018/3/26 Time: 下午 06:54:46 100.0 dRuV/m

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		270
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1	9.00	3924.000	59.14	-9.82	49.32	74.00	-24.68	peak	
2		4213.000	57.82	-9.45	48.37	74.00	-25.63	peak	
3		4689.000	58.17	-8.57	49.60	74.00	-24,40	peak	
4		5012.000	57.65	-7.20	50.45	74.00	-23,55	peak	
5		5318.000	58.17	-6.95	51.22	74.00	-22.78	peak	
6		5318.000	44.46	-6.95	37.51	54.00	-16.49	AVG	
7		5794.000	58.75	-6.09	52.66	74.00	-21.34	peak	
8	*	5794.000	44.53	-6.09	38.44	54.00	-15.56	AVG	
_									

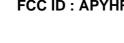
*:Maximum data x:Over limit !:over margin

File :30032\Data :#10

Page: 1

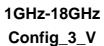
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Report No.: MH/2018/30032

Page: 36 of 51



Site SGS 966 Chamber A

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

Mode: Confing 3

Note: REC Mode

0.0

Polarization: Vertical Temperature:

22 °C

18000,00 MHz

Humidity: 62 %

Power: AC 120V/60Hz

Distance:

Radiated Emission File:30032 Data :#9 Date: 2018/3/26 Time: 下午 06:53:45 100.0 dRuV/m

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		3958.000	58.04	-9.67	48.37	74.00	-25.63	peak	
2		4349.000	58.62	-9.43	49.19	74.00	-24.81	peak	
3		4604.000	58.14	-8.94	49.20	74.00	-24,80	peak	
4		4944,000	57.76	-7.45	50.31	74.00	-23.69	peak	
5		5369.000	58.56	-6.90	51.66	74.00	-22.34	peak	
6		5369.000	44.84	-6,90	37.94	54.00	-16.06	AVG	
7		5709.000	57.91	-6.30	51.61	74.00	-22.39	peak	
8	*	5709.000	44.36	-6.30	38.06	54.00	-15.94	AVG	

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

File :30032\Data :#9

Page: 1

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Page: 37 of 51

18GHz~30GHz Config_1_H

Site SGS 966 Chamber A

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

Mode: Confing 1 Note: GSM 850 Polarization: Horizontal

Power: AC 120V/60Hz

Temperature:

Humidity: 61 %

Distance

Radiated Emission File:30032 Data :#22 Date: 2018/3/27 Time: 下午 11:43:29 100.0 dRuV/m FCC Class B 1M Radiation(16-406)(Pea 0.0 21600.00 22800.00 25200.00 30000.00 MHz

No.	Mk.	Mk. Freq.	11 11 11 11 11	1000	201 10 305 36	11 11 11 11 11	1 1 1 1 1 1 1	2001	71 17578		1 1 1 1 1 1 1 1	c. Freq.	. Freq.	Freq.	. Freq.	Freq.	Freq.	2 2 2 7 8	Reading Level	Correct Factor	Measure- ment	Limit	Over		
												dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment							
1	1	19104.000	55.42	-1.58	53.84	83.50	-29.66	peak																	
2		21576.000	54.92	0.58	55.50	83.50	-28.00	peak																	
3	11 -3	22176.000	54.53	1.60	56.13	83.50	-27.37	peak																	
4	+ - 8	24084.000	52.93	1.98	54.91	83.50	-28.59	peak																	
5	*	24888 000	55.03	2.55	57.58	83,50	-25.92	peak																	
6		27840,000	52.12	1.97	54.09	83.50	-29,41	peak																	

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

File :30032\Data :#22

Page: 1

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Page: 38 of 51

18GHz~30GHz Config_1_V

Site SGS 966 Chamber A

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

Mode: Confing 1 Note: GSM 850 Polarization: Vertical

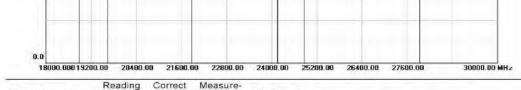
AC 120V/60Hz Power:

Distance:

Temperature: 21 %

Humidity: 61 %

Radiated Emission File:30032 Data :#21 Date: 2018/3/27 Time: 下午 11:42:03 100.0 dRuV/m FCC Class B 1M Radiation(16-406)(Pea



	Freq.	Level	Factor	ment	Limit	Over		
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
	18888.000	53.67	-1.57	52.10	83.50	-31.40	peak	
	19632.000	53.74	-1.47	52.27	83.50	-31.23	peak	
- 2	21876.000	52.66	1.30	53.96	83.50	-29.54	peak	
2	24168.000	52.26	2.07	54.33	83.50	-29.17	peak	
* 2	24876.000	54.32	2.55	56.87	83,50	-26.63	peak	
2	27936,000	51.87	1.98	53.85	83.50	-29.65	peak	
		MHz 18888.000 19632.000 21876.000 24168.000 4 24876.000 27936.000	18888.000 53.67 19632.000 53.74 21876.000 52.66 24168.000 52.26 24876.000 54.32	18888.000 53.67 -1.57 19632.000 53.74 -1.47 21876.000 52.66 1.30 24168.000 52.26 2.07 24876.000 54.32 2.55	18888.000 53.67 -1.57 52.10 19632.000 53.74 -1.47 52.27 21876.000 52.66 1.30 53.96 24168.000 52.26 2.07 54.33 * 24876.000 54.32 2.55 56.87	18888.000 53.67 -1.57 52.10 83.50 19632.000 53.74 -1.47 52.27 83.50 21876.000 52.66 1.30 53.96 83.50 24168.000 52.26 2.07 54.33 83.50 * 24876.000 54.32 2.55 56.87 83.50	18888.000 53.67 -1.57 52.10 83.50 -31.40 19632.000 53.74 -1.47 52.27 83.50 -31.23 21876.000 52.66 1.30 53.96 83.50 -29.54 24168.000 52.26 2.07 54.33 83.50 -29.17 24876.000 54.32 2.55 56.87 83.50 -26.63	18888.000 53.67 -1.57 52.10 83.50 -31.40 peak 19632.000 53.74 -1.47 52.27 83.50 -31.23 peak 21876.000 52.66 1.30 53.96 83.50 -29.54 peak 24168.000 52.26 2.07 54.33 83.50 -29.17 peak 24876.000 54.32 2.55 56.87 83.50 -26.63 peak

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

File :30032\Data :#21

Page: 1

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Page: 39 of 51

18GHz~30GHz Config_2_H

Site SGS 966 Chamber A

Horizontal

Temperature:

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

AC 120V/60Hz Power:

Humidity: 61 %

Mode: Confing 2 Note: Data link(Write) Distance:

Polarization:

			liated Emission		
File:30032		Data :#20	Date: 2018/3/2	7 Time: 下午	11:32:36
0.0 dBuV/m					
			FCU Class B 1	M Hadiation(16-406)(Pe	ia
0			FEE Clare & 18	Radiotion(1G 40G)[AVE	ij.
	1	*	*	*	*
0					
o					

Freq.	Level	Factor	ment	Limit			
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
04.000	55.38	-1.52	53.86	83.50	-29.64	peak	
28.000	55.65	-1.01	54.64	83.50	-28.86	peak	
76.000	54.03	1.60	55.63	83.50	-27,87	peak	
888.000	54.03	2.55	56.58	83.50	-26.92	peak	
40 000	53.12	1.97	55.09	83,50	-28.41	peak	
76,000	52.62	1.87	54.49	83.50	-29.01	peak	
57	6.000	6.000 52.62	6.000 52.62 1.87	6,000 52,62 1.87 54.49	6,000 52,62 1,87 54.49 83.50	6,000 52,62 1.87 54.49 83.50 -29.01	6,000 52,62 1.87 54.49 83.50 -29.01 peak

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

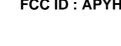
File :30032\Data :#20

Page: 1

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Report No.: MH/2018/30032

Page: 40 of 51

18GHz~30GHz Config_2_V

Power:

Distance:

Site SGS 966 Chamber A

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

Mode: Confing 2

Note: Data link(Write)

Polarization:

Vertical

AC 120V/60Hz

Temperature: 21 %

Humidity: 61 %

Radiated Emission File:30032 Data :#19 Date: 2018/3/27 Time: 下午 11:31:10 100.0 dRuV/m FCC Class B 1M Radiation(16-406)(Pea



No.	. Mk	. Freq.	Level	Factor	ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		19632.000	54.74	-1.47	53.27	83.50	-30.23	peak	
2		20340.000	54.61	-0.99	53.62	83.50	-29.88	peak	
3		21876.000	52.66	1.30	53.96	83.50	-29.54	peak	
4	*	24876.000	52.32	2.55	54.87	83.50	-28,63	peak	
5	1	26148 000	51.08	2.34	53.42	83,50	-30.08	peak	
6		27936,000	51.37	1.98	53.35	83.50	-30.15	peak	
_									

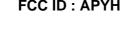
*:Maximum data x:Over limit !:over margin

File :30032\Data :#19

Page: 1

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FCC ID: APYHRO00259 Report No.: MH/2018/30032

Page: 41 of 51

18GHz~30GHz Config_3_H

Site SGS 966 Chamber A

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

Mode: Confing 3 Note: REC Mode Polarization: Horizontal

Power: AC 120V/60Hz

Temperature:

Humidity: 61 %

Distance

Radiated Emission



No.	o. Mk.		Reading	Correct	Measure- ment	Limit	Over					
			MHz	MHz	MHz	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		18492.000	54.35	-1.49	52.86	83.50	-30.64	peak				
2		20328.000	54.15	-1.01	53.14	83.50	-30.36	peak				
3	1	22176.000	54.03	1.60	55.63	83.50	-27.87	peak				
4	*	24888.000	54.03	2.55	56.58	83.50	-26.92	peak				
5		26148 000	52.34	2.34	54.68	83,50	-28.82	peak				
6		27840,000	53.12	1.97	55.09	83.50	-28.41	peak				
_												

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

File :30032\Data :#24

Page: 1

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Page: 42 of 51

18GHz~30GHz Config_3_V

Site SGS 966 Chamber A

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

Mode: Confing 3

Note: REC Mode

Polarization: Vertical

AC 120V/60Hz Power:

Distance:

Temperature: 21 ℃

Humidity: 61 %

Radiated Emission File:30032 Data :#23 Date: 2018/3/27 Time: 下午 11:47:18 100.0 dRuV/m FCC Class B 1M Hadiation(16-406)[Pea

	18	000.000 19200.	.00 20400.0	00 21600.0	0 22800.00	24000.00	25200.0	0 26400.0	0 27600.00	30000.00 MHz
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1		18888.000	53.17	-1.57	51.60	83.50	-31.90	peak		
2		19632.000	53.24	-1.47	51.77	83.50	-31.73	peak		
3		21876.000	52.16	1.30	53.46	83.50	-30.04	peak		
4	*	24876.000	53.32	2.55	55.87	83.50	-27.63	peak		
5		27936 000	51.87	1.98	53.85	83,50	-29.65	peak		
6		29748,000	51.63	1.95	53.58	83.50	-29.92	peak		

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

File :30032\Data :#23

Page: 1

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