



FCC-DOC COMPLIANCE REPORT

Test Report No. : E1/2016/B0038
Applicant : Fujitsu Limited
Address : 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki 211-8588, Japan
Manufacturer : Fujitsu Limited
Address : 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki 211-8588, Japan

Equipment Under Test (EUT) :
Product Name : Mobile Phone
Brand Name : FUJITSU
Model No. : F-04J
Added Model(s) : N/A

Standards : FCC Part 15:2016, Subpart B, Class B
FCC Registration Numbers : 916890

Date of Receipt : Nov. 07, 2016
Date of Test : Nov. 07 ~ Dec. 01, 2016
Date of Issue : Dec. 28, 2016

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.

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Tested By: Eddy Cheng **Date** Dec. 28, 2016

Eddy Cheng (Engineer)

Approved By Wisely Huang **Date** Dec. 28, 2016

Wisely Huang (Asst. Supervisor)



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Revision History

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1. General Information

1.1 Applicant & Manufacturer Information

Applicant : Fujitsu Limited
 Address of Applicant : 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki
 211-8588, Japan
 Manufacturer : Fujitsu Limited
 Address of Manufacturer : 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki
 211-8588, Japan

1.2 General Description of EUT

Product Name : Mobile Phone
 Brand Name : FUJITSU
 Model No. : F-04J
 Added Model(s) : N/A
 Model Difference : N/A

1.3 Details of EUT

Power Supply : AC 100~240V, 50~60Hz
 Modes/Function : Mode 1. ADP+ Earphone + WiFi Link +
 NFC ON(Standalone) + BT Link +
 GPS/Glonass Link + SD Card +
 GSM : 850 Link
 Mode 2. ADP+ Earphone + WiFi Idle +
 NFC ON(Standalone) + BT Idle +
 GPS/Glonass Idle + SD Card +
 GSM : 1900 Idle
 Mode 3. WiFi Link + NFC ON(Standalone) +
 BT Link + GPS/Glonass Link +SD Card +
 GSM : 850/1900 (Wosrt) Single
 Mode 4. ADP+ Earphone + WiFi Idle +
 NFC ON(Standalone) + BT Idle +
 GPS/Glonass Idle + SD Card +
 3G : BV Idle

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1.4 Operation Procedure

Mode: 1

1. Let EUT connect to the USB Cable, Adapter and Earphone.
2. Turned on the WiFi of EUT and connected to the AP.
Turned on Bluetooth and connected to the Bluetooth speaker.
Turned on NFC and scanned the card.
Turned on the GPS and connected to GPS simulator.
Played 1KHz from SD Card.
Turned on GSM and call connection with CMU200 (GSM850).
3. Started the test.

Mode 2

1. Let EUT connect to the USB Cable, Adapter and Earphone.
2. Turned on the WiFi of EUT and connected to the AP.
Turned on Bluetooth and connected to the Bluetooth speaker.
Turned on NFC and scanned the card.
Turned on the GPS and connected to GPS simulator.
Played 1KHz from SD Card.
Turned on GSM and call connection with CMU200 (GSM1900).
3. Started the test.

Mode 3

1. Turned on the WiFi of EUT and connected to the AP.
Turned on NFC and scanned the card continuously.
Turned on Bluetooth and connected to the Bluetooth speaker.
Turned on the GPS and connected to GPS simulator.
Played 1KHz from SD Card.
Turned on GSM and call connection with CMU200 (GSM850/GSM1900).
2. Started the test.

Mode 4

1. Let EUT connect to the USB Cable, Adapter and Earphone.
2. Turned on the WiFi of EUT and connected to the AP.
Turned on Bluetooth and connected to the Bluetooth speaker.
Turned on NFC and scanned the card.
Turned on the GPS and connected to GPS simulator.
Played 1KHz from SD Card.
Turned on GSM and call connection with CMU200 (3G B



Mode 5

1. Let EUT connect to the USB Cable, Adapter and Earphone.
2. Turned on the rear camera to start recording.
Turned on the WiFi of EUT and connected to the AP.
Turned on Bluetooth and connected to the Bluetooth speaker.
Turned on NFC and scanned the card.
Turned on the GPS and connected to GPS simulator.
Played 1KHz from SD Card.
3. Started the test.

Mode 6

1. Let EUT connect to the USB Cable, Adapter and Earphone.
2. Turned on the front camera to start recording.
Turned on the WiFi of EUT and connected to the AP.
Turned on Bluetooth and connected to the Bluetooth speaker.
Turned on NFC and scanned the card.
Turned on the GPS and connected to GPS simulator.
Played 1KHz from SD Card.
3. Started the test.

Mode 7

1. Let EUT connect to the HTC USB Cable(Below RE), notebook and Earphone.
2. Turned on the WiFi of EUT and connected to the AP.
Turned on Bluetooth and connected to the Bluetooth speaker.
Turned on the GPS and connected to GPS simulator.
Let data from SD Card write into notebook.
3. Started the test.

Mode 8

1. Let EUT connect to the HTC USB Cable(Below RE), notebook and Earphone.
2. Turned on the WiFi of EUT and connected to the AP.
Turned on Bluetooth and connected to the Bluetooth speaker.
Turned on the GPS and connected to GPS simulator.
Let data from notebook read into SD Card.
3. Started the test.

Mode 9

1. Let EUT connect to USB Cable, Docking and Adapter to charge.
2. Played 1KHz from EUT.
3. Started the test.

Mode: 10

1. Let EUT connect to USB Cable, Docking and NB to charge.
2. Played 1KHz from EUT.
3. Started the test.

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1.5 Description of Support Units

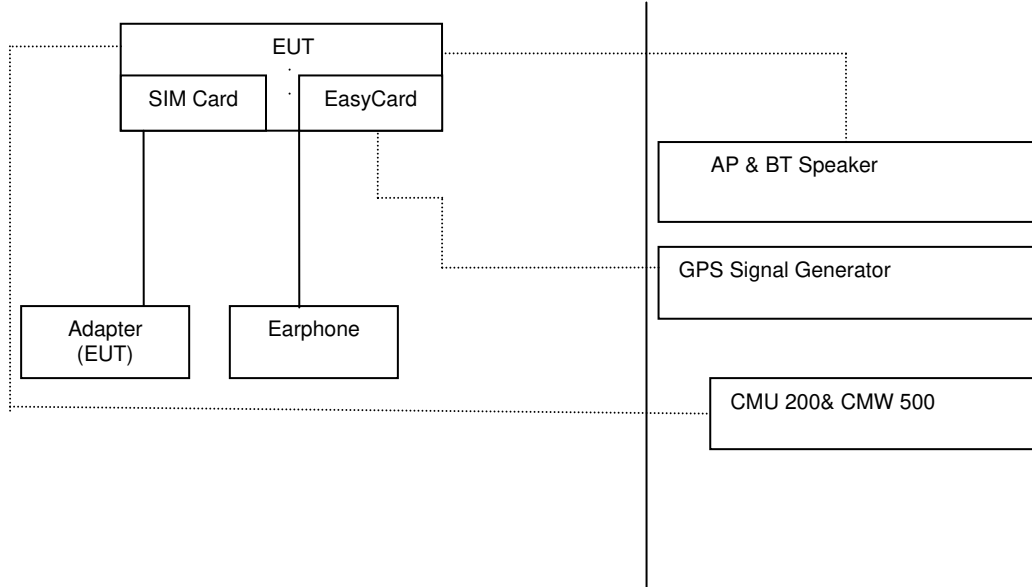
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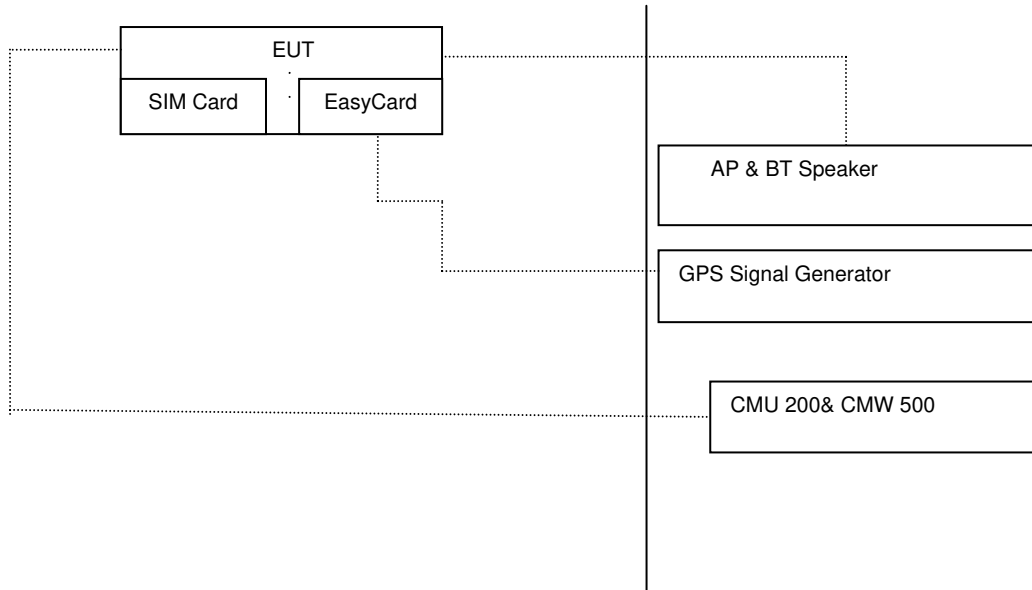


1.7 Test Set-Up Configuration

Mode 1-2 & 4



Mode 3

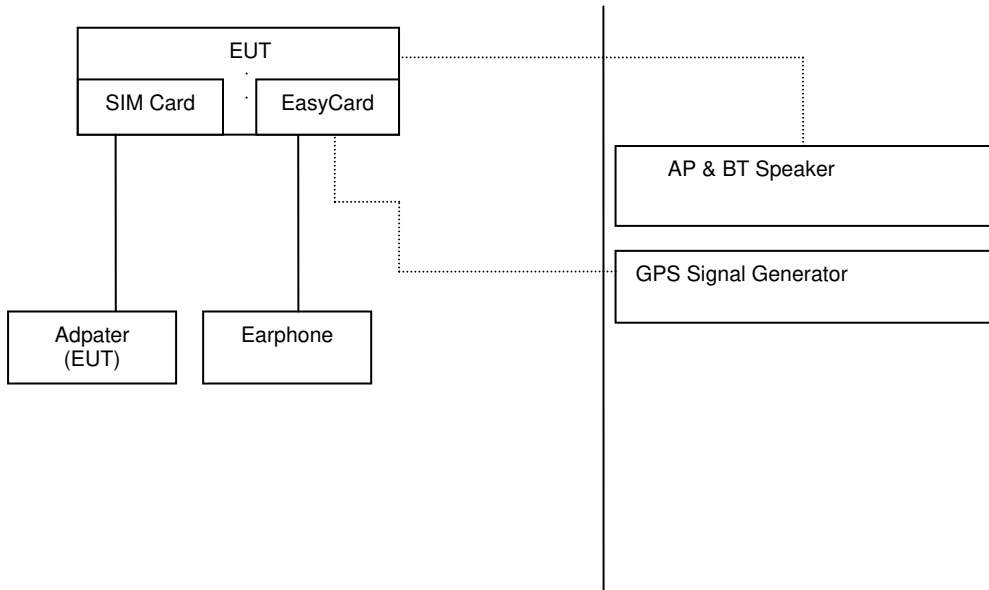


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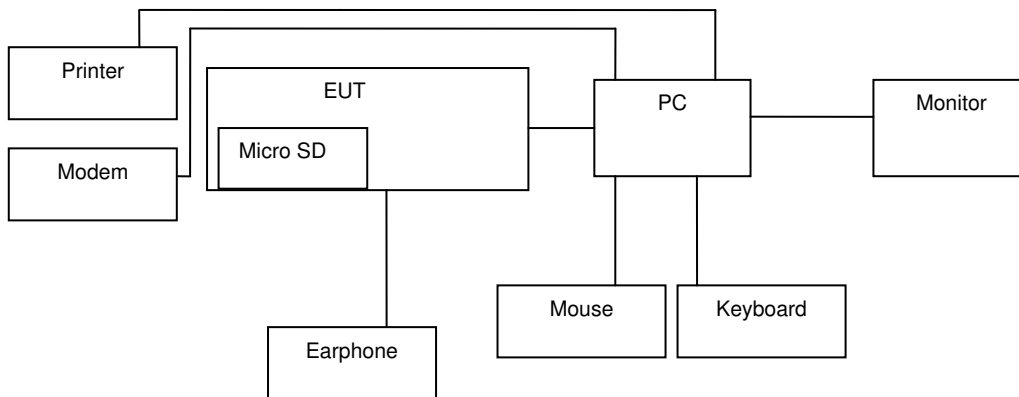
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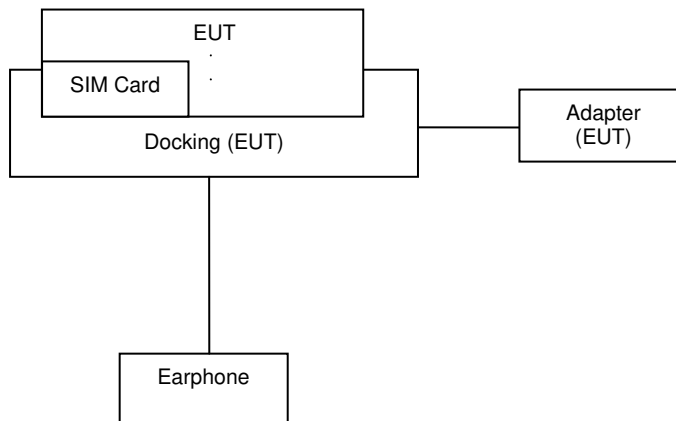
Mode 5-6



Mode 7-8



Mode 9

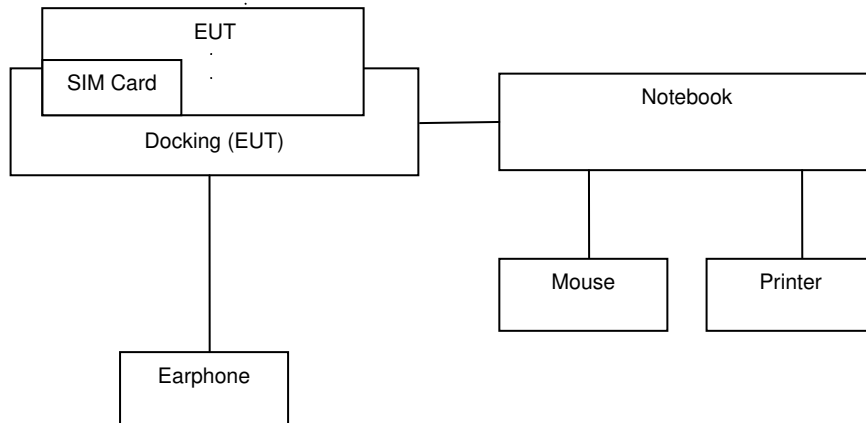


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Mode 10



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1.8 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.

1.9 Standards Applicable for Testing

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

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

1.10 Summary of Results

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2. EMISSION

2.1 Test Results

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2.3.2 Limits of Radiated Emissions for FCC Part 15, Subpart B/CISPR 22

FCC 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 1000-18000	79.3	59.3	73.9	53.9

CISPR 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 : The lower limit applies at the transition frequency.



2.4. Test of Conducted Emission

2.4.1 Test Equipments

SGS Conducted Emission HWAYA Conducted Room No.A EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI 3	101311	2016/6/23	2017/6/22
Coaxial Cables	N/A	N30N30-1042-150	N/A	2016/2/6	2017/2/5
LISN	SCHWARZBECK	NSLK 8127	8127-648	2016/6/13	2017/6/12
Pulse Limiter	Narda S.T.S.	PMM PL01	1110X30602	2016/8/12	2017/8/11
LISN	Schwarzbeck	NSLK 8128	NSLK8127-300	2016/6/22	2017/6/21
Universal Digital Radio Communication Tester	R&S	CMU 200	122498	2016/11/09	2017/11/08
Wideband Radio Communication Tester	R&S	CMW 500	152303	2016/2/18	2017/2/17
Test S/W	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

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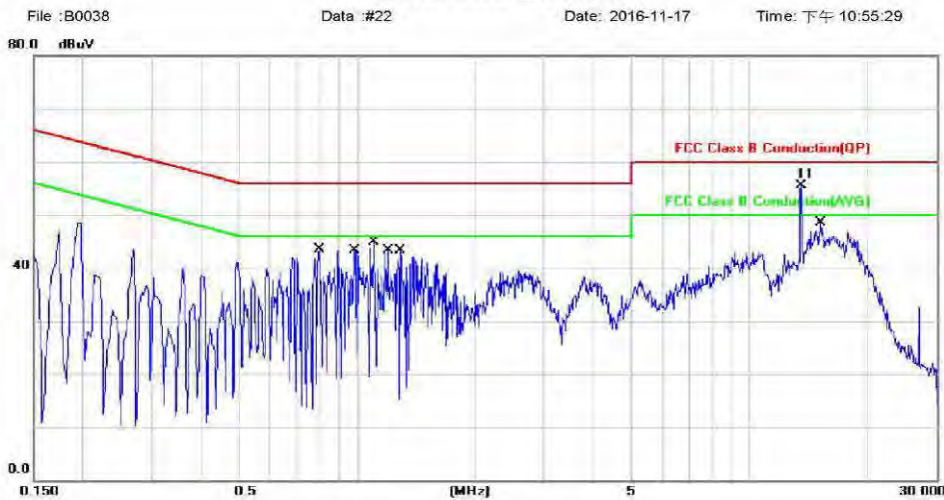


2.4.4 Measurement Data:

Model No.:F-04J
Mode_1_L

Site : Conduction Room Phase: **L1** Temperature: 23 °C
Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 74 %
Mode: Mode 1
Note:

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.8003	40.50	0.35	40.85	56.00	-15.15	QP	
2		0.8003	28.10	0.35	28.45	46.00	-17.55	AVG	
3		0.9860	41.50	0.34	41.84	56.00	-14.16	QP	
4		0.9860	30.20	0.34	30.54	46.00	-15.46	AVG	
5		1.0998	41.10	0.34	41.44	56.00	-14.56	QP	
6		1.0998	28.70	0.34	29.04	46.00	-16.96	AVG	
7		1.1980	40.10	0.35	40.45	56.00	-15.55	QP	
8		1.1980	28.50	0.35	28.85	46.00	-17.15	AVG	
9		1.2996	40.10	0.35	40.45	56.00	-15.55	QP	
10		1.2996	27.40	0.35	27.75	46.00	-18.25	AVG	
11	*	13.5780	54.87	0.67	55.54	60.00	-4.46	peak	NFC
12		15.2020	43.20	0.70	43.90	60.00	-16.10	QP	
13		15.2020	31.90	0.70	32.60	50.00	-17.40	AVG	

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

File :B0038\Data :#22

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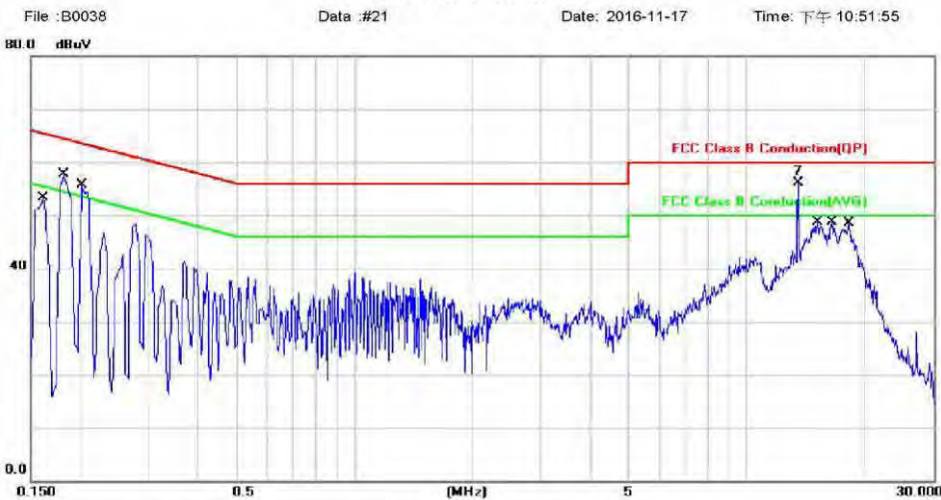
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Mode_1_N

Site : Conduction Room Phase: N Temperature: 23 ℃
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 74 %
 Mode: Mode 1
 Note:

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1620	46.00	0.38	46.38	65.36	-18.98	QP	
2		0.1620	29.00	0.38	29.38	55.36	-25.98	AVG	
3		0.1794	51.60	0.39	51.99	64.51	-12.52	QP	
4		0.1794	33.10	0.39	33.49	54.51	-21.02	AVG	
5		0.1995	50.80	0.39	51.19	63.63	-12.44	QP	
6		0.1995	35.70	0.39	36.09	53.63	-17.54	AVG	
7 *		13.5980	55.45	0.70	56.15	60.00	-3.85	peak	NFC
8		15.1660	41.20	0.72	41.92	60.00	-18.08	QP	
9		15.1660	28.60	0.72	29.32	50.00	-20.68	AVG	
10		16.5300	44.20	0.74	44.94	60.00	-15.06	QP	
11		16.5300	30.40	0.74	31.14	50.00	-18.86	AVG	
12		18.2700	40.90	0.77	41.67	60.00	-18.33	QP	
13		18.2700	28.30	0.77	29.07	50.00	-20.93	AVG	

*:Maximum data x:Over limit l: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 3	101342	2016/3/5	2017/3/4
EMI Test Receiver	R&S	ESCI 3	101343	2015/12/25	2016/12/24
Broadband Antenna	SCHWAZBECK	VULB9168	9168-628	2016/9/22	2017/9/21
Broadband Antenna	SCHWAZBECK	VULB9168	9168-629	2016/9/22	2017/9/21
Pre Amplifier	EMC Instruments Corp.	EMC330	980178	2016/3/31	2017/3/30
Pre Amplifier	EMC Instruments Corp.	EMC330	980179	2016/3/31	2017/3/30
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150917	2016/9/18	2017/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150919	2016/9/18	2017/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150820	2016/9/18	2017/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150918	2016/9/18	2017/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150821	2016/9/18	2017/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150822	2016/9/18	2017/9/17
Universal Digital Radio Communication Tester	R&S	CMU 200	122498	2016/11/09	2017/11/08
Wideband Radio Communication Tester	R&S	CMW 500	152303	2016/2/18	2017/2/17
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	2015/12/31	2016/12/30
Test S/W	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.tw.sgs.com

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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	2016/2/25	2017/2/24
EMI Test Receiver	R&S	ESR 7	101459	2016/2/22	2017/2/21
Horn Antenna	Schwarzbeck	BBHA9170	BBHA9170-184	2015/12/11	2016/12/10
Pre Amplifier	EMC Instruments Corp.	EMC012645B	980216	2016/4/25	2017/4/24
Coaxial Cable	JUNFLOW	MWX221-NMSNMS	J0778929	2016/4/23	2017/4/22
Coaxial Cable	Huber+Suhner	SUCCOFLEX 104PEA	30255/4PEA	N.C.R.	N.C.R.
Coaxial Cable	EMC Instruments	EMC104-SM-SM	140927	2016/4/23	2017/4/22
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	MY 2152/2	2016/6/5	2017/6/4
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	MY 2153/2	2016/6/5	2017/6/4
Universal Digital Radio Communication Tester	R&S	CMU 200	122498	2016/11/09	2017/11/08
Wideband Radio Communication Tester	R&S	CMW 500	152303	2016/2/18	2017/2/17
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	2016/1/12	2017/1/11
Test S/W	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

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2.5.2 Operating Environment

Temperature : 22 degree C

Humidity : 73 %RH

Atmospheric Pressure : 996 mBar

2.5.3 Measurement Level Calculation

Factor = Antenna Factor + Cable Loss – Amplifier Gain

Measurement Level = Reading Level + Factor

Over (Margin) = Measurement Level – Limit

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SGS Taiwan Ltd.

No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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2.5.4 Measurement Data

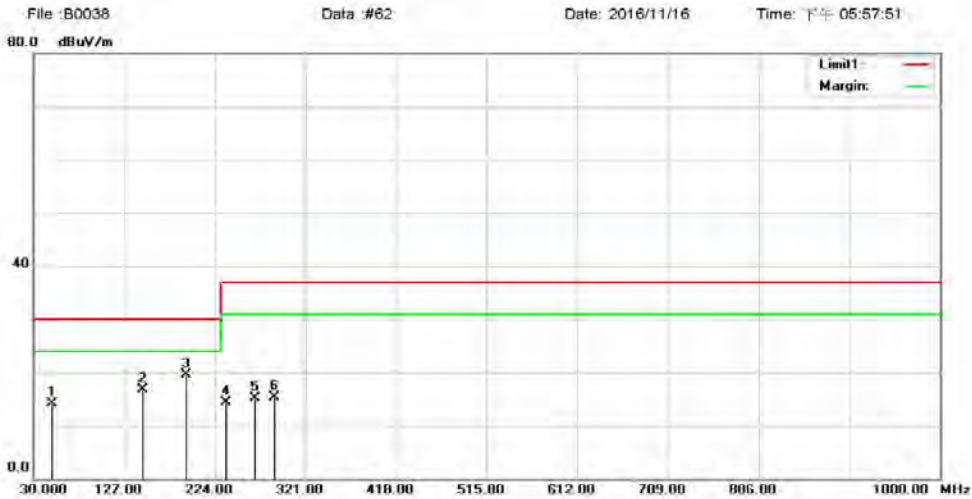
Below 1GHz

Model No.:F-04J

Mode_7_H

Site: SGS 10m Chamber
 Limit: CISPR22 Class B 10M Radiation
 Mode: Mode_7
 Note:
 Polarization: *Horizontal*
 Power: From System
 Distance: 10m
 Temperature: 22 °C
 Humidity: 73 %

Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		50.3700	25.57	-11.54	14.03	30.00	-15.97	QP	
2		146.4000	28.64	-11.91	16.73	30.00	-13.27	QP	
3	*	193.9300	34.02	-14.58	19.44	30.00	-10.56	QP	
4		235.6400	27.93	-13.67	14.26	37.00	-22.74	QP	
5		267.6500	27.23	-12.12	15.11	37.00	-21.89	QP	
6		288.0200	26.43	-11.18	15.25	37.00	-21.75	QP	

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

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Mode_7_V

Site: SGS 10m Chamber Polarization: **Vertical** Temperature: 22 °C
 Limit: CISPR22 Class B 10M Radiation Power: From System Humidity: 73 %
 Mode: Mode_7 Distance: 10m
 Note:

Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		35.8200	27.40	-11.91	15.49	30.00	-14.51	QP	
2		52.3100	25.57	-11.24	14.33	30.00	-15.67	QP	
3		144.4600	25.82	-11.59	14.23	30.00	-15.77	QP	
4		167.7400	25.53	-11.51	14.02	30.00	-15.98	QP	
5 *		194.9000	31.42	-14.26	17.16	30.00	-12.84	QP	
6		224.0000	31.36	-14.42	16.94	30.00	-13.06	QP	

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

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Mode_7_V

Site: SGS 966 Chamber A
 Limit: FCC Class B 3M Radiation(1G-40G)(Pea)
 Mode: Mode_7
 Note:
 Polarization: Vertical
 Power: From System
 Distance:
 Temperature: 25 °C
 Humidity: 71 %

Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	1119.000	74.45	-23.18	51.27	74.00	-22.73	peak	
2		1408.000	68.57	-21.90	46.67	74.00	-27.33	peak	
3		2003.000	63.89	-19.36	44.53	74.00	-29.47	peak	
4		2411.000	63.52	-17.63	45.89	74.00	-28.11	peak	
5		5437.000	57.38	-8.86	48.52	74.00	-25.48	peak	
6		5760.000	57.40	-8.20	49.20	74.00	-24.80	peak	

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

File: B0038\Data #23

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The frequency band during 18GHz till 26.5 GHz that was not reported was verified with no extra obvious finding except ambient signals.

**** End of Report ****

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