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## FCC CERTIFICATION REPORT

Test Report No. : MH/2020/30138

**Applicant** : FUJITSU CONNECTED TECHNOLOGIES Ltd.

**Address** : Chuorinkan 7-10-1 Yamato, Kanagawa 242-0007, Japan

: FUJITSU CONNECTED TECHNOLOGIES Ltd. Manufacturer

**Address** : Chuorinkan 7-10-1 Yamato, Kanagawa 242-0007, Japan

**Equipment Under Test (EUT):** 

**Product Name** : Smart Phone

**Brand Name** : FUJITSU

Model No. : F-42A Added Model(s) : N/A

**Standards** : FCC Part 15 Subpart B, Class B

FCC Designation Numbers: 916890 / TW1087

Date of Sample Receipt : Apr. 14th, 2020

Date of Test : Apr. 22th ~ 24th, 2020

Date of Issue : May 11th, 2020

Test Result: **PASS** 

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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Approved By

Eddy Cheng (Asst. Supervisor)

Date

May 11th, 2020





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Revision History			
Revision Description		Issue Date	Remark
00	Original.	May 11th, 2020	MH/2020/30138

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FCC ID: 2AQYEFMP178

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# 1. General Information

## 1.1 Applicant & Manufacturer Information

**Applicant** : FUJITSU CONNECTED TECHNOLOGIES Ltd.

Address of Applicant : Chuorinkan 7-10-1 Yamato, Kanagawa 242-0007,

Japan

Manufacturer : FUJITSU CONNECTED TECHNOLOGIES Ltd.

Address of Manufacturer: Chuorinkan 7-10-1 Yamato, Kanagawa 242-0007,

Japan

## 1.2 General Description of EUT

Product Name : Smart Phone

Brand Name : FUJITSU

Model No. : F-42A

Added Model(s) : N/A Model Difference: N/A

#### 1.3 Details of EUT

Power Supply : From Battery & AC 100~240V, 50~60Hz

. Mode 1. ADP + Earphone + WiFi Link(2.4G) + Modes/Function

NFC OFF + BT Link + GPS/Glonass Link

+ SD Card + GSM: 850 Link

Mode 2. ADP + Earphone + WiFi Idle + NFC OFF

+ BT Idle + GPS/Glonass Idle + SD Card

+ GSM: 1900 Idle

Mode 3. WiFi Link(2.4G) + NFC ON(Standalone)

+ BT Link + GPS/Glonass Link + SD

Card + GSM: 850/1900 (Worst) Single

Mode 4. ADP + Earphone + WiFi Idle + NFC OFF

+ BT Idle + GPS/Glonass Idle + SD Card

+ WCDMA: B V Link

Mode 5. ADP + Earphone + WiFi Link(5G) + NFC

OFF + BT Link + GPS/Glonass Link + SD

Card + LTE : B V Link

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Mode 6. ADP + Earphone + Camera Rear REC + Worst WiFi (5G/2.4G) Link + NFC OFF + BT Stand by + GPS/Glonass Link + SD

Mode 7. ADP + Earphone + Camera Front REC+ Worst WiFi (5G/2.4G) Link + NFC OFF + BT Stand by + GPS/Glonass Link+ SD Card

Mode 8. Worst WiFi (5G/2.4G) Link + BT Link + GPS/Glonass Link + Earphone + SD Card + USB Cable to NB(SD Write)

Mode 9. Worst WiFi (5G/2.4G) Link + BT Link + GPS/Glonass Link + Earphone + SD Card + USB Cable to NB(SD Read)

Mode 10. For Audio breakthrough measurement (worst mode 2G/3G) NO Earphone

Worst case

CE worst case:

Mode 1. ADP + Earphone + WiFi Link(2.4G) + NFC OFF + BT Link + GPS/Glonass Link + SD Card + GSM: 850 Link

Below / Above RE worst case :

Mode 8. Worst WiFi (5G/2.4G) Link + BT Link + GPS/Glonass Link + Earphone + SD Card + USB Cable to NB(SD Write)

Battery

. Model No.: CA54310-0075

Supplier: FUJITSU CONNECTED **TECHNOLOGIES LIMITED** 

3.8V, 2110mAh, 8.1Wh

Highest internal frequency : 5725MHz

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## 1.4 Operation Procedure

#### Mode 1

- 1. Let EUT install SIM Card & SD Card in EUT, connect to Adapter & Earphone.
- 2. Turn on WiFi and AP connection of EUT, turn on Bluetooth and Bluetooth speaker, turn off NFC, turn on GPS and connects with GPS simulator, plays 1KHz in SD Card.
- 3. Turn on GSM and connect with CMU200 (GSM850).
- 4. Start testing.

#### Mode 8

- 1. Let EUT connect to the NB with USB Cable and connect to the Earphone.
- 2. Turn on WiFi and AP connection of EUT, turn on Bluetooth and Bluetooth speakers, turn on GPS and connect with GPS simulator, SD Card Write NB data.
- 3. Start the test.

## 1.5 Description of Support Units

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
Micro SD	Transcend	Micro SDHC (Class4)	N/A
SIM Card	R&S	CMW-Z05	8952530076180138474
BT Speaker	Creative	MF8090	YFMF8090245R00855Y
Radio Communication Analyzer	R&S	CMU200	102189
Radio Communication Analyzer	R&S	CMU500	1201.002K50-152303-Zr
AP	BUFFALO	WZR-HP-G300NH2	44066221202559[[G]]
GPS Signal Generator	Spectracom	GSG53 GNSS4	200218
Earphone	HTC	N/A	N/A
Notebook	Lenovo	TP00109A	SL10N19265
Adapter	HOSIDEN	AC アダプタ 06	N/A

Support Equipment Used in Tested Cable

Cable Type	Core	Length	Shielding/Non-shielding
DC power cable	Near AE	1.15m	Shielding
USB cable	N/A	1m	Shielding
Earphone cable	N/A	1.8m	Non-shielding

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#### 1.6 Modification List

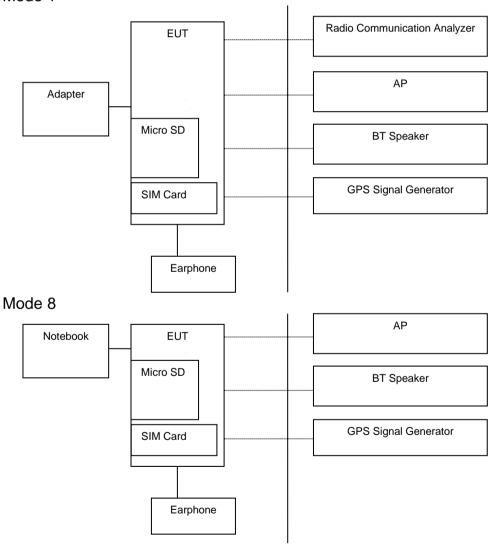
No modification was made by SGS Taiwan Electronics & Communication Laboratory.

### 1.7 Accessories Cable List

Cable Type	Core	Length	Shielding/Non-shielding
N/A	N/A	N/A	N/A

## 1.8 Test Set-Up Configuration

#### Mode 1



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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 Decision Rules of Results

Reported measurement data comply with ANSI C63.4:2014

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

## 1.12 Summary of Results

Highest Emission					
Standard Test Type		Result	Phase/Pol.	Frequency(MHz)	Margin(dB)
CCC Dort 15 Subport D	Conducted Emission	PASS	Line	0.5220	-10.73 (AVG)
FCC Part 15 Subpart B Class B			Neutral	13.5700	-11.39 (peak)
Class B	Radiated Emission	PASS	Ver.	999.8320	-2.03 (QP)

#### 1.13 Reporting Statements of Conformity

The conformity statement in this report is based solely on the test results, measurement uncertainty is excluded.

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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 - 1081000 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	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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#### 2.3.2 Limits of Radiated Emissions

## **FCC Part 15 Subpart B Limit:**

Detector Function : Quasi – Peak

2 Detector Fariation Figure From				
FREQUENCY	Class A (at 10 m)	Class B (at 3 m)		
(MHz)	dBuV/m	dBuV/m		
30~88	39	40		
88~216	43.5	43.5		
216~960	46.4	46		
960~1000	49.5	54		

Detector Function : Peak , Average

FREQUENCY	Class A (dBu	V/m) (at 10 m)	Class B (dBuV/m) (at 3 m)	
(MHz)	Peak	Average	Peak	Average
Above 1000	69.5	49.5	74	54

#### **CISPR 22 Limit:**

Detector Function : Quasi – Peak

	FREQUENCY	Class A (at 10 m)	Class B (at 10 m)	
	(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 (dB	uV/m) (at 3 m)	Class B (dBu	uV/m) (at 3 m)
(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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#### 2.4.Test of Conducted Emission

## 2.4.1 Test Equipments

9	SGS Conducted Emi	ssion HWAYA Cond	ducted Room N	No.A EMC	
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration	Calibration Due
EMI Test Receiver	R&S	ESCI 3	101311	Jul. 02th, 2019	Jul. 01th, 2020
Coaxial Cables	EMC Instruments Corp	EMCRG58-BM- BM-3000	160812	Aug. 12th, 2019	Aug. 11th, 2020
Pulse Limiter	Narda S.T.S.	PMM PL01	1110X30602	Aug. 12th, 2019	Aug. 11th, 2020
LISN	Schwarzbeck	NSLK 8127	8127-648	Jul. 12th, 2019	Jul. 11th, 2020
LISN	Schwarzbeck	NSLK 8128	NSLK8128- 300	Sep. 16th, 2019	Sep. 15th, 2020
Communication Tester	R&S	CMU 200	119988	Feb. 22th, 2020	Feb. 21th, 2021
Communication Tester	R&S	CMW 500	152303	Feb. 24th, 2020	Feb. 23th, 2021
Communication Tester	Anritsu	MT8820C	6201465315	N.C.R.	N.C.R.
Test S/W	Farad	EZ-EMC	Ver. SGS- 03A2-3	N.C.R.	N.C.R.

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No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan (R.O.C.)

Measurement Uncertainty of Conducted Emission

Expanded uncertainty Ulab(K=2) of conducted emission is 2.25 dB

Theory values uncertainty Ucispr 16-4-2:2011+A1\_2014 (K=2) of AC mains conducted Emission is 3.44dB

## 2.4.2 Operating Environment

Temperature: 20 degree C Humidity: 61 %RH

Atmospheric Pressure: 990 hpa

#### 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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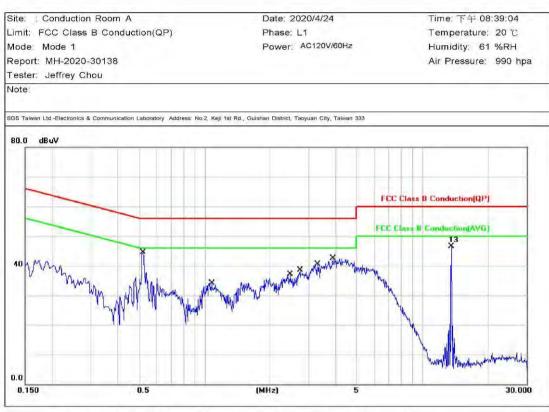


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#### 2.4.4 Measurement Data:

Model No.: F-42A Mode 1 L



61-		Freq.	Reading	Factor	Measurement	Limit	Over	Detector	C
No.	Mk -	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	Detector	Comment
- 1		0.5220	42.09	0.13	42.22	56.00	-13.78	QP	
2	*	0.5220	35.14	0.13	35.27	46.00	-10.73	AVG	
3		1.0820	31.03	0.24	31.27	56.00	-24.73	QP	
4		1.0820	20.22	0.24	20.46	46.00	-25.54	AVG	
5		2.4780	32.62	0.27	32.89	56.00	-23.11	QP	
6		2.4780	20.84	0.27	21.11	46.00	-24.89	AVG	
7		2.7500	34.00	0.28	34.28	56.00	-21.72	QP	
8		2.7500	21.75	0.28	22.03	46.00	-23.97	AVG	
9		3.3100	35.37	0.29	35.66	56.00	-20.34	QP	
10		3.3100	23.62	0.29	23.91	46.00	-22.09	AVG	
11		3.8940	36.20	0.31	36.51	56.00	-19.49	QP	
12		3.8940	23.56	0.31	23.87	46.00	-22.13	AVG	
13		13.5580	45.90	0.65	46.55	60.00	-13.45	peak	NFC Signal

<sup>\*:</sup> Maximum data x:Over limit !:over margin

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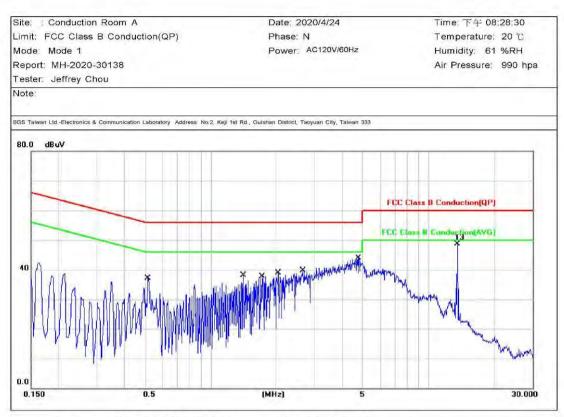
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## Mode\_1\_N



		Freq.	Reading	Factor	Measurement	Limit	Over	Detector	C
No.	Mk -	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	Detector	Comment
- 1		0.5180	33.44	0.11	33.55	56.00	-22.45	QP	
2		0.5180	22.03	0.11	22.14	46.00	-23.86	AVG	
3		1.4140	33.46	0.23	33.69	56.00	-22.31	QP	
4		1.4140	20.99	0.23	21.22	46.00	-24.78	AVG	
5		1.7340	33.18	0.24	33.42	56.00	-22.58	QP	
6		1.7340	19.60	0.24	19.84	46.00	-26.16	AVG	
7		2.0500	34.69	0.24	34.93	56.00	-21.07	QP	
8		2.0500	21.05	0.24	21.29	46.00	-24.71	AVG	
9		2.6620	34.95	0.25	35.20	56.00	-20.80	QP	
10		2.6620	21.66	0.25	21.91	46.00	-24.09	AVG	"
11		4.7740	39.57	0.28	39.85	56.00	-16.15	QP	
12	71	4.7740	26.45	0.28	26.73	46.00	-19.27	AVG	
13	*	13.5700	48.16	0.45	48.61	60.00	-11_39	peak	NFC Signal

<sup>\*:</sup> 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	d_Below_1GHz HWAYA	10m_EMC		
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI 7	100950	Dec. 11th, 2019	Dec. 10th, 2020
EMI Test Receiver	R&S	ESCI 3	101343	Feb. 17th, 2020	Feb. 16th, 2021
Broadband Antenna	SCHWAZBECK	VULB9168	9168-628	Sep. 09th, 2019	Sep. 08th, 2020
Broadband Antenna	SCHWAZBECK	VULB9168	9168-629	Sep. 09th, 2019	Sep. 08th, 2020
Pre Amplifier	EMC Instruments Corp.	EMC330	980178	Mar. 31th, 2020	Mar. 30th, 2021
Pre Amplifier	EMC Instruments Corp.	EMC330	980179	Mar. 31th, 2020	Mar. 30th, 2021
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150917	Sep. 18th, 2019	Sep. 17th, 2020
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150919	Sep. 18th, 2019	Sep. 17th, 2020
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150820	Sep. 18th, 2019	Sep. 17th, 2020
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150918	Sep. 18th, 2019	Sep. 17th, 2020
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150821	Sep. 18th, 2019	Sep. 17th, 2020
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150822	Sep. 18th, 2019	Sep. 17th, 2020
Universal Digital Radio Communication Tester	R&S	CMU 200	119988	Feb. 22th, 2020	Feb. 21th, 2021
Wideband Radio Communication Tester	R&S	CMW 500	152303	Feb. 24th, 2020	Feb. 23th, 2021
Radio Communication Analyzer	Anritsu	MT8820C	62014653 15	N.C.R.	N.C.R.
Controller	MF	MF7802	N/A	N.C.R.	N.C.R.
Controller	MF	MF7802	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	SGS	10M Chamber	10M SAC	Dec. 31th, 2019	Dec. 30th, 2020
Test S/W	Farad	EZ-EMC	Ver. SGS 10m- 03A2-3	N.C.R.	N.C.R.

SGS Taiwan LTD. Electronics & Communication Laboratory

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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 Radia	ated_Above_1GHz HWA	AYA 966A_EMC		
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	R&S	FSV 40	101419	May 22th, 2019	May 21th, 2020
EMI Test Receiver	R&S	ESR 7	101459	Feb. 24th, 2020	Feb. 23th, 2021
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA9120D285	Apr. 30th, 2019	Apr. 29th, 2020
Horn Antenna	Schwarzbeck	BBHA9170	BBHA9170-184	Dec. 25th, 2019	Dec. 24th, 2020
Pre Amplifier	EMC Instruments Corp.	EMC012645B	980216	Apr. 25th, 2019	Apr. 24th, 2020
Pre Amplifier	EMC Instruments Corp.	EMC184045B	980135	Oct. 27th, 2019	Oct. 26th, 2020
Coaxial Cable	JUNFLOW	MWX221-NMSNMS	J0778929	Apr. 23th, 2019	Apr. 22th, 2021
Coaxial Cable	Huber+Suhner	SUCCOFLEX 104PEA	30255/4PEA	Apr. 23th, 2019	Apr. 22th, 2021
Coaxial Cable	EMC Instruments	EMC104-SM-SM	140927	Apr. 23th, 2019	Apr. 22th, 2021
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	MY 2651/2	Jun. 05th, 2019	Jun. 04th, 2020
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	MY 2153/2	Jun. 05th, 2019	Jun. 04th, 2020
Universal Digital Radio Communication Tester	R&S	CMU 200	119988	Feb. 22th, 2020	Feb.21th, 2021
Wideband Radio Communication Tester	R&S	CMW 500	152303	Feb. 24th, 2020	Feb. 23th, 2021
Radio Communication Analyzer	Anritsu	MT8820C	6201465315	N.C.R.	N.C.R.
Controller	MF	MF7802	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	Jan. 12th, 2020	Jan. 11th, 2021
Test S/W	Farad	EZ-EMC	Ver. SGS-03A2-3	N.C.R.	N.C.R.

SGS Taiwan LTD. Electronics & Communication Laboratory

No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan (R.O.C.)

Measurement Uncertainty of Radiated Emission

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

Expanded uncertainty Ulab (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

Humidity: 60 %RH Temperature: 26 degree C

Atmospheric Pressure: 990 hpa

### 2.5.3 Measurement Level Calculation

Correction Factor = Antenna Factor + Cable loss- Amplifier Gain Measurement Level = Reading Level + Correction Factor Over (Margin) = Measurement Level - Limit

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#### 2.5.4 Measurement Data

#### **Below 1GHz**

Model No.: F-42A

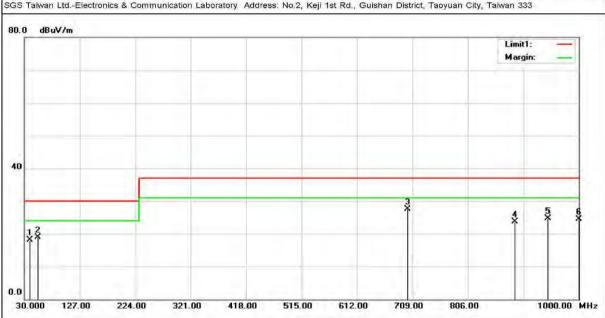
Mode 8 H

Site: SGS 10m Chamber Date: 2020/4/23 Time: 下午 04:49:38 Limit: CISPR22 Class B 10m Radiation Polarization: Horizontal Temperature: 26 ℃ Power: From System Humidity: 60 %RH Mode: Mode\_8 Report: File :MH-2020-30138 Air Pressure: 990 hpa Distance: 10m

Tester: David Lee

SGS

SGS Taiwan Ltd.-Electronics & Communication Laboratory, Address: No.2, Keij 1st Rd., Guishan District, Taoyuan City, Taiwan 333



664	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Height	Degree	National	C
No.	IVIK	MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	Detector	Comment
1		39.7000	29.60	-11.40	18.20	30.00	-11.80			QP	
2		53.7200	30.30	-11.33	18.97	30.00	-11.03			QP	
3	*	699.9300	29.16	-1.60	27.56	37.00	-9.44	151	0	QP	
4		888.4500	23.25	0.49	23.74	37.00	-13.26			QP	
5		945.6800	23.21	1.48	24.69	37.00	-12.31			QP	
6		999.3200	22.88	1.69	24.57	37.00	-12.43			QP	

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<sup>\*:</sup>Maximum data x:Over limit !:over margin



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## Mode\_8\_V

Date: 2020/4/23 Site: SGS 10m Chamber Time: 下午 04:49:36 CISPR22 Class B 10m Radiation Limit: Polarization: Vertical Temperature: 26 °C Power: From System Mode: Mode 8 Humidity: 60 %RH Report: File :MH-2020-30138 Distance: 10m Air Pressure: 990 hpa Tester: David Lee Note: SGS Taiwan Ltd.-Electronics & Communication Laboratory Address: No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333 dBuV/m Limit1: Margin: 40 30,000 127.00 224.00 321 00 418.00 515 00 612 00 709.00 806 00 1000.00 MHz

		Freq.	Reading	Factor	Measurement	Limit	Over	Height	Degree	Detector	C
No.	Mk	MHz	MHz (dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	Detector	Comment
1		30.0000	30.18	-12.00	18.18	30.00	-11.82	1 - 1 - 1	111	QP	
2		43.8000	32.78	-10.99	21.79	30.00	-8.21			QP	
3	1	699.8800	33.30	-0.40	32.90	37.00	-4.10			QP	
4		759.4400	22.63	1.18	23.81	37.00	-13.19			QP	
5		899.9060	28.38	1.50	29.88	37.00	-7.12		-	QP	
6	*	999.8320	32.47	2.50	34.97	37.00	-2.03	220	357	QP	

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<sup>\*:</sup>Maximum data x:Over limit !:over margin



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#### **Above 1GHz**

Model No.: F-42A 1GHz~18GHz Mode 8 H



		Freq.	Reading	Factor	Measurement	Limit	Over	Height	Degree	Between	
No.	Mk :	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	Detector	Comment
1		1000.0000	62.53	-22.60	39.93	74.00	-34.07			peak	
2		1085.000	61.39	-21.67	39.72	74.00	-34.28			peak	
3		1187.000	58.85	-20.71	38.14	74.00	-35.86			peak	
4		1986.000	61.45	-15.54	45.91	74.00	-28.09			peak	
5		5981.000	58.20	-4.24	53.96	74.00	-20.04	100	194	peak	
6		5981.000	36.41	-4.24	32,17	54.00	-21.83	100	194	AVG	
7		7562,000	49.76	1.53	51.29	74.00	-22.71	100	182	peak	
8	*	7562.000	34.75	1.53	36.28	54.00	-17.72	100	182	AVG	

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

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## Mode\_8\_V



NI-	100	Freq.	Reading	Factor	Measurement	Limit	Over	Height	Degree	Detector	Comment
No.	Mk :	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	Detector	Comment
1		1000.0000	66.76	-22.60	44.16	74.00	-29.84			peak	
2		1085.000	60.82	-21.67	39.15	74.00	-34.85			peak	
3		1187.000	59.36	-20.71	38.65	74.00	-35.35			peak	
4		1986.000	61.46	-15.54	45.92	74.00	-28.08			peak	
5	*	5981.000	63.94	-4.24	59.70	74.00	-14.30	100	177	peak	
6		5981.000	36.72	-4.24	32.48	54.00	-21.52	100	177	AVG	
7		7222,000	48.58	0.68	49.26	74.00	-24.74			peak	

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## 18GHz~30GHz Mode\_8\_H\_



NI-		Freq.	Reading	Factor	Measurement	Limit	Over	Height	Degree	Detector	Comment
No.	Mk :	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	Detector	Comment
1		18288.000	48.16	-0.76	47.40	83.50	-36:10			peak	
2		19800.000	47.09	1.34	48.43	83.50	-35.07			peak	
3		22032.000	46.57	2.92	49.49	83.50	-34.01			peak	
4	*	24492.000	46.57	4.70	51.27	83,50	-32.23	100	266	peak	
5		25128.000	46.52	4.73	51.25	83.50	-32.25			peak	
6		26040.000	46.44	4.50	50.94	83.50	-32.56			peak	

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## Mode\_8\_V



NI-		Freq.	Reading	Factor	Measurement	Limit	Over	Height	Degree	Detector	Comment
No.	Mk	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	Detector	Comment
1		18312.000	47.37	-0.76	46.61	83.50	-36.89			peak	
2		21816.000	46.89	2.61	49.50	83.50	-34.00			peak	
3		22356.000	46.25	3.04	49.29	83.50	-34.21			peak	
4		23424.000	45.85	3.82	49.67	83,50	-33,83			peak	
5	*	24528.000	47.20	4.70	51.90	83.50	-31.60	100	105	peak	
6		29856.000	46.22	4.58	50.80	83.50	-32.70			peak	

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