

## FCC SDoC REPORT

Test Report No. : MW/2021/10031  
Applicant : iCare Diagnostics International Co. Ltd.  
Address : 15F., NO. 207-3, SEC. 3, BEIXIN RD., XINDIAN DIST., NEW  
TAIPEI CITY 231632, TAIWAN  
Manufacturer : iCare Diagnostics International Co. Ltd.  
Address : 4F., No. 53, Sec. 4, Zhongyang Rd., Tucheng Dist., New Taipei  
City 236, Taiwan

## Equipment Under Test (EUT) :

Product Name : iCareDx PSS-1  
Brand Name : iCare Diagnostics  
Model No. : PSS-1  
Added Model(s) : N/A

Standards : FCC Part 15 Subpart B (Class A)

Date of Sample Receipt : Jan. 21, 2021  
Date of Test : Jan. 25 ~ 27, 2021  
Date of Issue : Jan. 27, 2021

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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Approved By

Mark Liu

Date

Jan. 27, 2021

Mark Liu (Supervisor)



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## Revision History

Revision	Description	Issue Date	Remark
00	Original.	Jan. 27, 2021	MW/2021/10031

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# 1. General Information

## 1.1 Applicant & Manufacturer Information

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Address of Applicant : 15F., NO. 207-3, SEC. 3, BEIXIN RD., XINDIAN DIST.,  
NEW TAIPEI CITY 231632, TAIWAN  
Manufacturer : iCare Diagnostics International Co. Ltd.  
Address of Manufacturer : 4F., No. 53, Sec. 4, Zhongyang Rd., Tucheng Dist.,  
New Taipei City 236, Taiwan

## 1.2 General Description of EUT

Product Name : iCareDx PSS-1  
Brand Name : iCare Diagnostics  
Model No. : PSS-1  
Added Model(s) : N/A  
Model Difference : N/A

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### 1.3 Details of EUT

Power Supply	: AC120V, 60Hz
Modes/Function	: Mode 1 Fan + Touch + Wi-Fi 2.4G Mode 2 Video + Touch + Wi-Fi 2.4G Mode 3 UV + Internal Camera On + Touch + Wi-Fi 2.4G Mode 4 Front Camera + Recording + Data Write + Touch + Wi-Fi 2.4G Mode 5 Saliva Cup Heat + Touch + Wi-Fi 2.4G Mode 6 Cartridge Heat + Touch + Wi-Fi 2.4G"
Worst case	: CE Worst case : Mode 5 Saliva Cup Heat + Touch + Wi-Fi 2.4G Below 1GHz RE Worst case : Mode 5 Saliva Cup Heat + Touch + Wi-Fi 2.4G Above 1GHz RE Worst case : Mode 5 Saliva Cup Heat + Touch + Wi-Fi 2.4G
Highest internal frequency	: 2.4 GHz
Adapter	: Model No.: SOY-1200400-327 Supplier : ShenZhen SOY Technology Co., Ltd I/P : 100~240V, 50/60Hz, 1.7A Max. O/P : 12V, 4A, 48W

### 1.4 Description of Support Units

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
Disk	N/A	N/A	N/A
NB	Lenovo	L412	LR-83G5T
AP	D-Link	DIR-300	P1DY29A000133

### Support Equipment Used in Tested Cable

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

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## 1.5 Operation Procedure

### Mode 1

1. Place the sample on the test table.
2. Connect the SGS Dlink AP to AC power and to the external network.
3. Connect the sample to AC power.
4. Confirm that the sample is connected to the AP.
5. Connect SGS Sugar Android phone to Dlink AP.
6. NB is also connected to Dlink AP.
7. Mobile phone to confirm the IP of the sample.
8. NB Pin sample.
9. Use engineering mode to perform fan cooling function.
10. Test.

### Mode 2

1. Undertake mode 1.
2. Back to the main screen.
3. Play Video.
4. Test.

### Mode 3

1. Undertake mode 1.
2. Back to the main screen.
3. Load the Disk into the sample.
4. Use engineering mode to open the internal lens of the sample.
5. UV turns on automatically.
6. Test.

### Mode 4

1. Undertake mode 1.
2. Back to the main screen.
3. In normal operation, perform front camera recording.
4. Test.

### Mode 5

1. Undertake mode 4.
2. Click Next.
3. Test.

### Mode 6

1. Undertake mode 1.
2. Back to the main screen.
3. In normal operation mode, in PCR process.
4. Test.

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## 1.6 Modification List

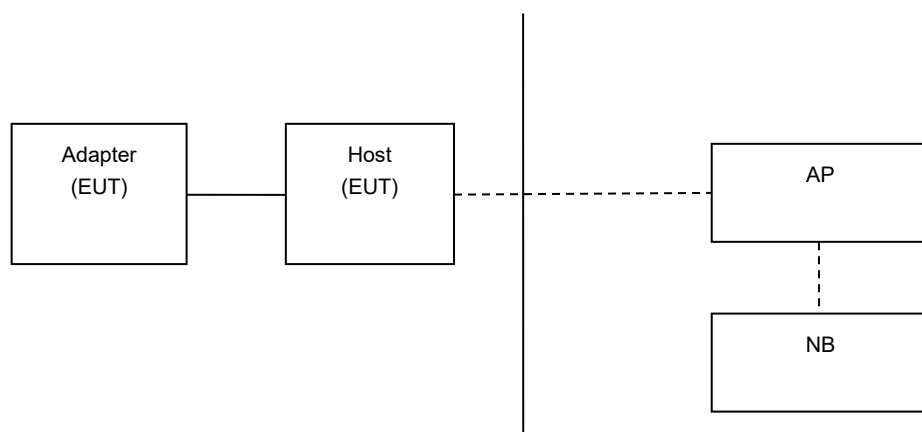
No modification was made by SGS Taiwan Electromagnetic Compatibility Laboratory.

## 1.7 Accessories Cable List

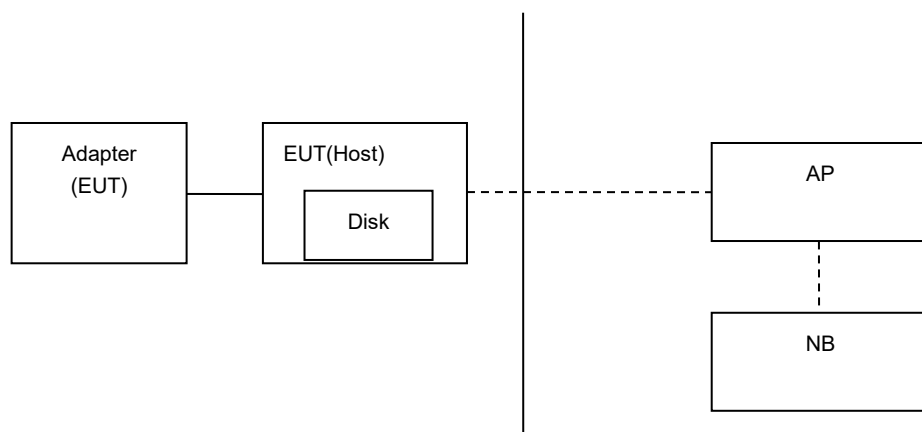
Cable Type	Core	Length	Category	Shielding/Non-shielding
AC Power Cable	N/A	1 m	Class I equipment	Non-shielding
DC Output Power Cable	Near EUT & AE	1 m	Class II equipment	Non-shielding

## 1.8 Test Set-Up Configuration

Mode 1,2



Mode 3~6



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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 3/10m 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 frequency and amplitude of the worse emissions 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

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### 1.11 Decision Rules of Results

Reported measurement data comply with FCC Part 15 Subpart B.

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

### 1.12 Summary of Results

Standard	Emission	
	Test Type	Result
FCC Part 15 Subpart B (Class A)	Conducted Emission	PASS
	Radiated Emission	PASS

### 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 used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 - 108	1000
500 - 1000	2000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower.

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## 2.3 Limits of Conducted and Radiated Emission

### 2.3.1 Limits of Conducted Emission

#### FCC Part 15 Subpart B:

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.5 - 5	73	60	56	46
5.0 - 30	73	60	60	50

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

(2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

(3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected there to, shall not exceed the level of field strengths specified above.

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### 2.3.2 Limits of Radiated Emissions

#### FCC Part 15 Subpart B Limit:

- Detector Function : Quasi – Peak

FREQUENCY (MHz)	Class A (at 10 m)	Class B (at 3 m)
	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 (MHz)	Class A (dBuV/m) (at 3 m)		Class B (dBuV/m) (at 3 m)	
	Peak	Average	Peak	Average
Above 1000	80	60	74	54

#### CISPR 22 Limit:

- Detector Function : Quasi – Peak

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

Note: 1. The lower limit shall apply at the transition frequency.

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

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## 2.4. Test of Conducted Emission

### 2.4.1 Test Equipments

SGS Conducted_Emission WuKu Conducted Room_EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI 3	101338	2020/3/23	2021/3/22
Coaxial Cables	N/A	WK CE Cable	N/A	2020/11/26	2021/11/25
Pulse Limiter	R&S	ESH3-Z2	357.8810.52	2020/12/30	2021/12/29
LISN	SCHWARZBECK	NSLK 8127	8127-649	2020/6/10	2021/6/9
LISN	Rolf-Heine	NNB-2/16Z	99013	2021/1/4	2022/1/3
Test Software	Farad	EZ-EMC	Ver. SGS-03A2-5	N.C.R.	N.C.R.
Testing Site : No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan					
Measurement Uncertainty of Conducted Emission					
Expanded uncertainty U <sub>lab</sub> (K=2) of conducted emission is 2.34 dB.					
Expanded uncertainty U <sub>cispr</sub> 16-4-2 :2011+A1:2014+A2:2018 (K=2) of AC mains conducted Emission is 3.44 dB					

### 2.4.2 Measurement Level Calculation

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

Measurement Level = Reading Level + Factor

Over (Margin) = Measurement Level – Limit

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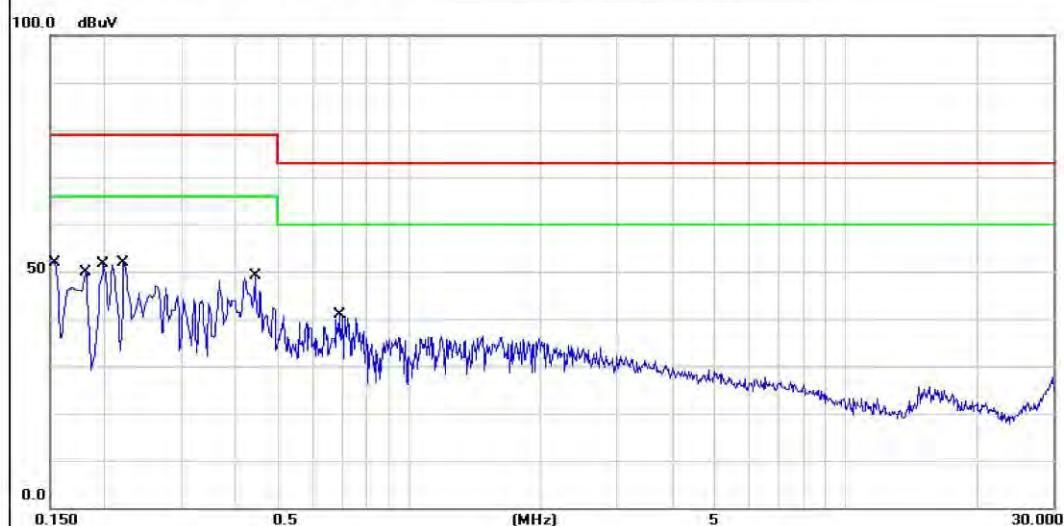
## 2.4.3 Measurement Data:

Model No.:PSS-1

Mode\_5\_L

Site: 1F Conduction Room	Date: 2021-01-25	Time: 10:54:51
Limit: FCC Class A Conduction(QP)	Phase: L1	Temperature: 22 °C
Mode: Mode_5	Power: AC 120 V, 60 Hz	Humidity: 58 %RH
Report: MW-2021-10031		Air Pressure: 1015 hpa
Tester: Frank Chen		
Note:		

SGS Taiwan Ltd. Electromagnetic Compatibility Laboratory Add. No 134, Wu Kung Rd., New Taipei Ind. Park, Wuku Dist., New Taipei City, TW



No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	*	0.1542	33.53	10.04	43.57	79.00	-35.43	QP	
2		0.1818	30.19	10.04	40.23	79.00	-38.77	QP	
3		0.1974	28.39	10.04	38.43	79.00	-40.57	QP	
4		0.2228	28.47	10.08	38.55	79.00	-40.45	QP	
5		0.4433	29.75	10.45	40.20	79.00	-38.80	QP	
6		0.6910	20.70	10.40	31.10	73.00	-41.90	QP	

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

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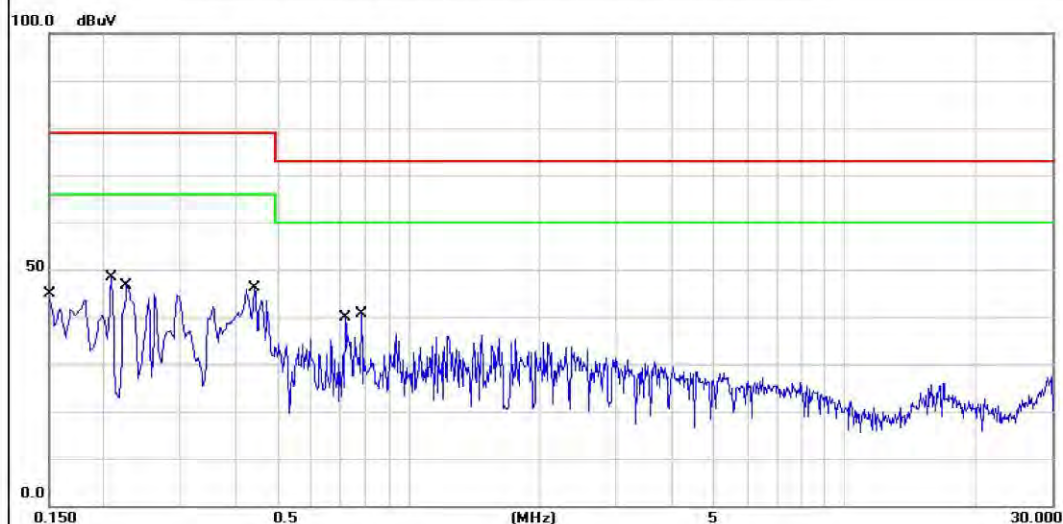
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## Mode\_5\_N

Site: 1F Conduction Room	Date: 2021-01-25	Time: 11:00:09
Limit: FCC Class A Conduction(QP)	Phase: N	Temperature: 22 °C
Mode: Mode_5	Power: AC 120 V, 60 Hz	Humidity: 58 %RH
Report: MW-2021-10031		Air Pressure: 1015 hpa
Tester: Frank Chen		
Note:		

SGS Taiwan Ltd. Electromagnetic Compatibility Laboratory Add. No.134, Wu Kung Rd., New Taipei Ind. Park, Wuku Dist., New Taipei City, TW



No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	*	0.1504	35.18	10.04	45.22	79.00	-33.78	QP	
2		0.2071	27.48	10.05	37.53	79.00	-41.47	QP	
3		0.2258	29.83	10.08	39.91	79.00	-39.09	QP	
4		0.4432	31.76	10.45	42.21	79.00	-36.79	QP	
5		0.7166	21.40	10.38	31.78	73.00	-41.22	QP	
6		0.7817	21.55	10.32	31.87	73.00	-41.13	QP	

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## 2.5 Test of Radiated Emission

### 2.5.1 Test Equipments

#### Below 1GHz

SGS Radiated_Below_1GHz HWAYA 10m_EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI 7	100950	2020/11/30	2021/11/29
EMI Test Receiver	R&S	ESCI 3	101343	2020/2/17	2021/2/16
Broadband Antenna	SCHWAZBECK	VULB9168	9168-628	2020/9/8	2021/9/7
Broadband Antenna	SCHWAZBECK	VULB9168	9168-629	2020/9/14	2021/9/13
Pre Amplifier	EMC Instruments Corp.	EMC330	980178	2020/3/31	2021/3/30
Pre Amplifier	EMC Instruments Corp.	EMC330	980179	2020/3/31	2021/3/30
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150917	2020/9/18	2021/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150919	2020/9/18	2021/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150820	2020/9/18	2021/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150918	2020/9/18	2021/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150821	2020/9/18	2021/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150822	2020/9/18	2021/9/17
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.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Site NSA	Chance Most	10M Chamber	10M SAC	2020/12/31	2021/12/30
Test S/W	Farad	EZ-EMC	Ver. SGS 10m-03A2-5	N.C.R.	N.C.R.

Testing Site : No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan

Measurement Uncertainty of Radiated Emission

Expanded uncertainty U<sub>lab</sub> (K=2) of radiated emission is 4.43 dB. (30MHz - 1000MHz)

Expanded uncertainty U<sub>cispr</sub> CISPR 16-4-2 :2011+A1:2014+A2:2018 (K=2) of radiated emission is 6.32 dB. (30MHz - 1000MHz)

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## Above 1GHz

SGS Radiated Above 1GHz WuKu 966-2 EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI 7	100760	2020/6/18	2021/6/17
Spectrum Analyzer	R&S	FSV 40	101385	2020/11/9	2021/11/8
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA9120D309	2021/1/5	2022/1/4
Pre Amplifier	EMC Instruments Corp.	EMC012645B	980226	2020/9/30	2021/9/29
Coaxial Cable	Huber+Suhner	SUCCOFLEX 104PEA	966 II	2020/10/7	2021/10/6
Notch Filter (2.4G)	MICRO-TRONICS	BRM50706	073	2020/9/30	2021/9/29
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.
Controller	MF	MF7802	N/A	N.C.R.	N.C.R.
Site NSA	Chamost	966II Chamber	N/A	2020/12/21	2021/12/20
Test Software	Farad	EZ-EMC	Ver. SGS-03A2-5	N.C.R.	N.C.R.
Testing Site : No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan					
Measurement Uncertainty of Radiated Emission					
Expanded uncertainty U <sub>lab</sub> (k=2) of radiated emission measurement is 4.87 dB. (1-6GHz)					
Expanded uncertainty U <sub>lab</sub> (k=2) of radiated emission measurement is 4.97 dB. (6-18GHz)					
Expanded uncertainty U <sub>cispr</sub> 16-4-2 :2011+A1:2014+A2:2018 (K=2) of radiated emission measurement is 5.18 dB.(1-6GHz)					
Expanded uncertainty U <sub>cispr</sub> 16-4-2 :2011+A1:2014+A2:2018 (K=2) of radiated emission measurement is 5.48 dB.(6-18GHz)					

## 2.5.2 Measurement Level Calculation

Correction Factor = Antenna Factor + Cable loss- Amplifier Gain + Notch Filter Factor

Measurement Level = Reading Level + Correction Factor

Over (Margin) = Measurement Level – Limit

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## 2.5.3 Measurement Data

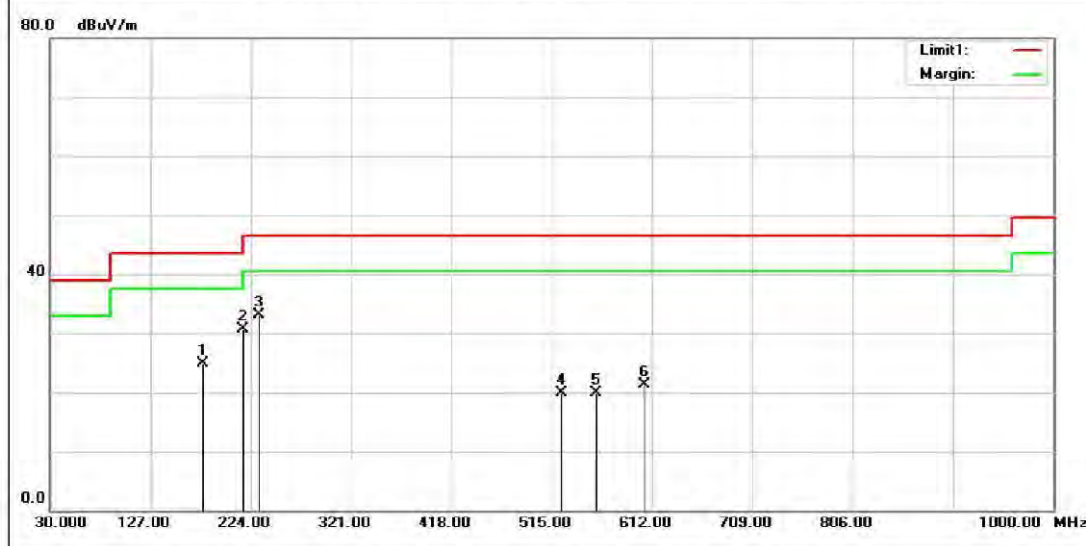
## Below 1GHz

Model No.:PSS-1

Mode\_5\_H

Site: SGS 10m Chamber	Date: 2021/1/27	Time: 上午 10:27:55
Limit: FCC Class A 10m Radiation	Polarization: <b>Horizontal</b>	Temperature: 21 °C
Mode: Mode_5	Power: AC120V/60Hz	Humidity: 67 %RH
Report: File :MW-2021-10031	Distance: 10m	Air Pressure: 990 hpa
Tester: David Lee		
Note:		

SGS Taiwan Ltd.-Electromagnetic Compatibility Laboratory Address: No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333



No.	Mk	Freq. MHz	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		177.3500	36.80	-11.86	24.94	43.50	-18.56			QP	
2	*	215.9800	44.85	-14.06	30.79	43.50	-12.71	399	245	QP	
3		231.5420	46.59	-13.47	33.12	46.44	-13.32			QP	
4		524.7000	24.02	-4.11	19.91	46.44	-26.53			QP	
5		558.6500	23.52	-3.57	19.95	46.44	-26.49			QP	
6		605.2100	23.19	-1.98	21.21	46.44	-25.23			QP	

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

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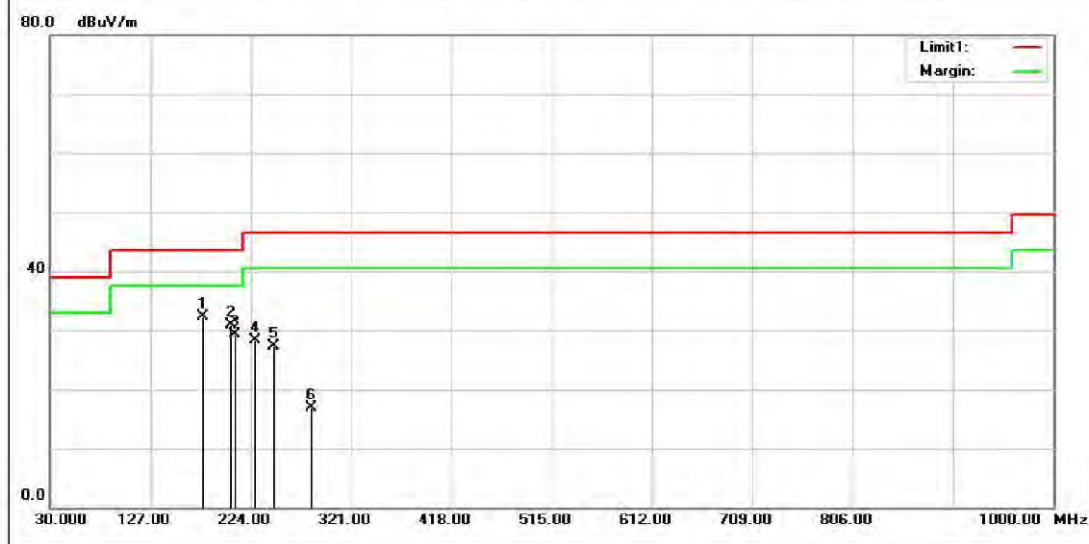
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## Mode\_5\_V

Site: SGS 10m Chamber	Date: 2021/1/27	Time: 上午 10:27:54
Limit: FCC Class A 10m Radiation	Polarization: <b>Vertical</b>	Temperature: 21 °C
Mode: Mode_5	Power: AC120V/60Hz	Humidity: 67 %RH
Report: File :MW-2021-10031	Distance: 10m	Air Pressure: 990 hpa
Tester: David Lee		
Note:		

SGS Taiwan Ltd.-Electromagnetic Compatibility Laboratory Address: No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333



No.	Mk	Freq. MHz	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1	*	178.3400	44.48	-12.20	32.28	43.50	-11.22	100	138	QP	
2		203.8400	44.80	-13.98	30.82	43.50	-12.68			QP	
3		208.4800	43.44	-14.07	29.37	43.50	-14.13			QP	
4		227.4700	42.05	-13.66	28.39	46.44	-18.05			QP	
5		246.0500	39.47	-12.18	27.29	46.44	-19.15			QP	
6		282.3100	27.39	-10.42	16.97	46.44	-29.47			QP	

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

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Above 1GHz

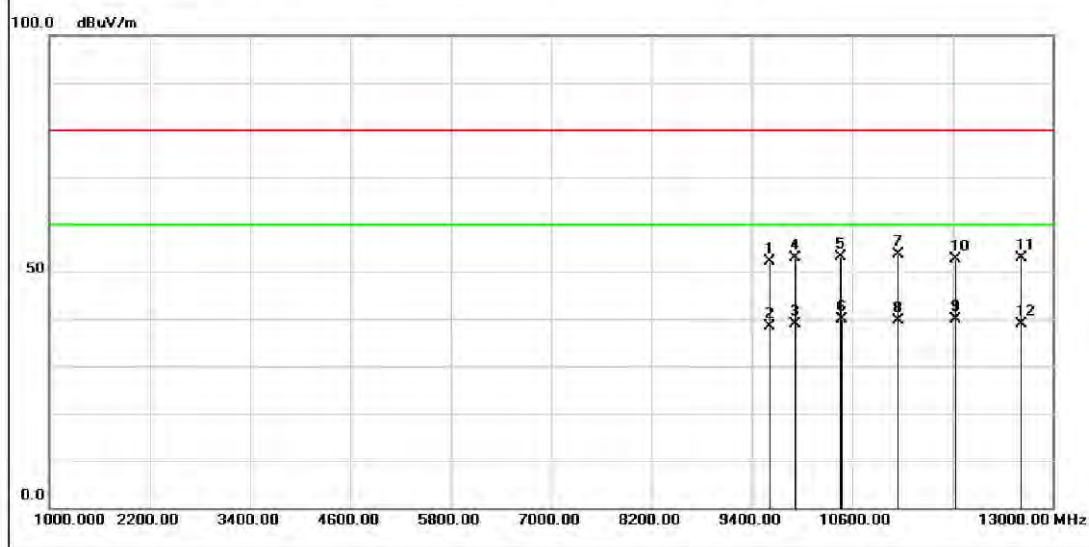
Model No.:PSS-1

Mode\_5\_H

Site: 966-2 Chamber	Date: 2021-01-26	Time: 15:36:41
Limit: FCC Class A 3M Radiation(1G-40G)(Pea	Polarization: Horizontal	Temperature: 21 °C
Mode: Mode_5	Power: AC 120 V, 60 Hz	Humidity: 57 %RH
Report: MW-2021-10031	Distance: 3m	Air Pressure: 1015 hpa
Tester: Frank Chen		

Note:

SGS Taiwan Ltd. Electromagnetic Compatibility Laboratory Add: No.134, Wu Kung Rd., New Taipei Ind. Park, Wuku Dist., New Taipei City, TW



No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Comment
1		9616.000	53.16	-1.15	52.01	80.00	-27.99	peak	
2		9617.310	39.56	-1.15	38.41	60.00	-21.59	AVG	
3		9912.240	39.25	-0.39	38.86	60.00	-21.14	AVG	
4		9916.000	53.15	-0.39	52.76	80.00	-27.24	peak	
5		10468.000	52.84	0.36	53.20	80.00	-26.80	peak	
6		10472.750	39.43	0.35	39.78	60.00	-20.22	AVG	
7		11152.000	53.36	0.27	53.63	80.00	-26.37	peak	
8		11152.990	39.32	0.26	39.58	60.00	-20.42	AVG	
9	*	11835.720	40.18	-0.28	39.90	60.00	-20.10	AVG	
10		11836.000	52.88	-0.28	52.60	80.00	-27.40	peak	
11		12616.000	52.40	0.47	52.87	80.00	-27.13	peak	
12		12616.530	38.38	0.47	38.85	60.00	-21.15	AVG	

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

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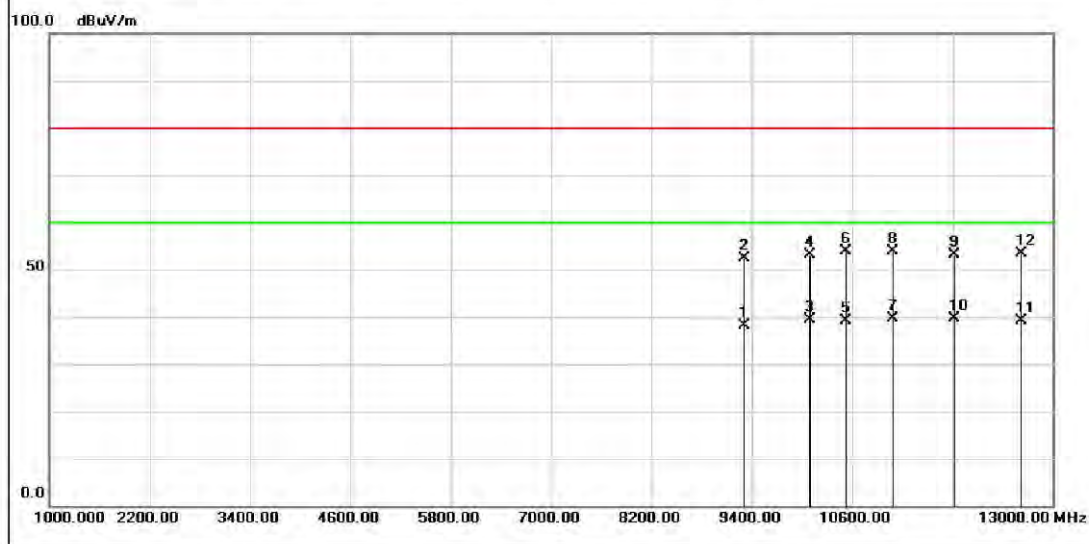


## Mode\_5\_V

Site: 966-2 Chamber	Date: 2021-01-26	Time: 15:22:46
Limit: FCC Class A 3M Radiation(1G-40G)(Pea	Polarization: Vertical	Temperature: 21 °C
Mode: Mode_5	Power: AC 120 V, 60 Hz	Humidity: 57 %RH
Report: MW-2021-10031	Distance: 3m	Air Pressure: 1015 hpa
Tester: Frank Chen		

Note:

SGS Taiwan Ltd. Electromagnetic Compatibility Laboratory Add: No.134, Wu Kung Rd., New Taipei ind. Park, Wuku Dist., New Taipei City, TW



No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Comment
1		9315.520	39.41	-1.23	38.18	60.00	-21.82	AVG	
2		9316.000	53.57	-1.23	52.34	80.00	-27.66	peak	
3		10094.300	39.61	-0.34	39.27	60.00	-20.73	AVG	
4		10096.000	53.47	-0.34	53.13	80.00	-26.87	peak	
5		10527.120	38.91	0.33	39.24	60.00	-20.76	AVG	
6		10528.000	53.54	0.33	53.87	80.00	-26.13	peak	
7		11091.680	39.17	0.38	39.55	60.00	-20.45	AVG	
8		11092.000	53.46	0.38	53.84	80.00	-26.16	peak	
9		11824.000	53.38	-0.29	53.09	80.00	-26.91	peak	
10	*	11824.630	39.90	-0.29	39.61	60.00	-20.39	AVG	
11		12625.640	38.69	0.50	39.19	60.00	-20.81	AVG	
12		12628.000	52.95	0.50	53.45	80.00	-26.55	peak	

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

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