Report No.:
 SEWA2208000038RG05

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### **TEST REPORT**

Application No.:	SEWA2208000038RG
Applicant:	SmartWitness USA, LLC
Address of Applicant:	1016 Lunt Avenue Schaumburg, IL 60193 United States
Manufacturer:	SmartWitness USA, LLC
Address of Manufacturer:	1016 Lunt Avenue Schaumburg, IL 60193 United States
EUT Description:	Dash Camera
Model No.:	DC4026-NAD011
Trade Mark:	Sensata
FCC ID:	2AQ2S-DC402X
Standard(s):	FCC 47 CFR Part 15, Subpart B
Date of Receipt:	2023/02/10
Date of Test:	2023/03/10 to 2023/03/25
Date of Issue:	2023/03/27
Test Result:	Pass*

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

Authorized Signature:

anta Sun

Panta Sun Wireless Laboratory Manager



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Revision Record							
Version Chapter Date Modifier Remark							
01		2023/03/27		Original			

Prepared By	Kinj-P Li			
	(King-p Li) / Test Engineer			
Checked By	well wei			
	(Well Wei) / Reviewer			



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### **Test Summary**

Emission Part								
Item	Standard	Method	Requirement	Result				
Conducted Emissions at Mains Terminals (150kHz-30MHz)	FCC 47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass				
Radiated Emissions (30MHz-1GHz)	FCC 47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass				
Radiated Emissions (above 1GHz)	FCC 47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass				

Internal Source	Upper Frequency
Below 1.705MHz	30MHz
1.705MHz to 108MHz	1GHz
108MHz to 500MHz	2GHz
500MHz to 1GHz	5GHz
Above 1GHz	5th harmonic of the highest frequency or 40GHz, whichever is lower



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### **1** General Information

EUT Description:	Dash Camera	Dash Camera							
Model No.:	DC4026-NAD011								
Trade Mark:	Sensata	Sensata							
Hardware Version:	V1.2								
Software Version:	SC600YNAPAR06A04 BP0	3.006 QDM039							
IMEI:	868899060124740								
	Band	Tx (MHz)	Rx (MHz)						
	LTE Band 2	1850~1910	1930~1990						
	LTE Band 4	1710~1755	2110~2155						
	LTE Band 5	824~849	869~894						
	LTE Band 7	2500~2570	2620~2690						
	LTE Band 12	699~716	729~746						
	LTE Band 13	777~787	746~756						
	LTE Band 14	788~798	746~756						
	LTE Band 17	704~716	734~746						
Frequency Bands:	LTE Band 25	1850~1915	1930~1995						
Frequency bands.	LTE Band 26	814~824	859~869						
	(814 to 824 MHz)	014-024	039-009						
	LTE Band 26	824~849	869~894						
	(824 to 849 MHz)								
	LTE Band 41	2496~2690	2496~2690						
	LTE Band 66	1710~1780	2110~2200						
	LTE Band 71	663~698	617~652						
	Bluetooth	2402~2480	2402~2480						
	Wi-Fi 2.4G	2412~2462	2412~2462						
	GNSS (GPS+Beidou+GLONASS)	N/A	1559~1610						

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South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Plot Free Trade Zone 215000 中国 • 苏州 • 中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000 t (86–512) 62992980 www.sgsgroup.com.cn t (86–512) 62992980 sgs.china@sgs.com

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### 1.1 Description of Support Units

Description	Manufacturer	Model No.	Inventory No.		
Router	Smavwave Technology Co.,Ltd	SRT 421	SUWI-04-34-01		
Computer	Lenovo T14		SUWI-03-33-04		
Mouse	Lenovo	3D optical Mouse	SUWI-03-33-05		
Adaptor	Huawei	HW-050200C02	SUWI-03-33-06		

### 1.2 Test Location

#### All tests were performed at:

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	King-p Li

### 1.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

### • A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

#### • Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

### • FCC –Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327

### 1.4 Deviation from Standards

None

### **1.5 Abnormalities from Standard Conditions**

None



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### 2 Emission Test Results

### 2.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement:	47 CFR Part 15, Subpart B						
Test Method:	ANSI C63.4:2014						
Frequency Range:	150kHz to 30MHz						
Receiver Setup:	RBW = 9kHz, VBW = 30kHz						
	Frequency Benge (MHz)	Limit(dBµV)					
	Frequency Range (MHz)	Quasi-peak	average				
	0.15M-0.5MHz	66 ~ 56*	56 ~ 46*				
Limit:	0.5M-5MHz	56	46				
	5M-30MHz	60	50				
	*Decreases with the logarithm of the frequency						
	Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz						

### 2.1.1 E.U.T. Operation

S

Operating Environment:

Temperature:	22~23°C
Humidity:	44~46%RH
Atmospheric Pressure:	101.0kPa
Pretest these modes to find the worst case:	a: USB (adapter input)+BT+2.4GWLAN +GNSS +LTE Band 5 b: USB (adapter input)+BT+2.4GWLAN +GNSS +LTE Band 12 c: USB (adapter input)+BT+2.4GWLAN +GNSS +LTE Band 13 d: USB (adapter input)+BT+2.4GWLAN +GNSS +LTE Band 14 e: USB (adapter input)+BT+2.4GWLAN +GNSS +LTE Band 17 f: USB (adapter input)+BT+2.4GWLAN +GNSS +LTE Band 26 g: USB (adapter input)+BT+2.4GWLAN +GNSS +LTE Band 71
The worst case for final test:	d: USB (adapter input)+BT+2.4GWLAN +GNSS +LTE Band 14



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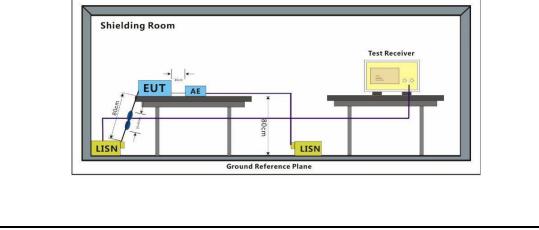
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#### 2.1.2 Test Setup Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.

- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.

8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.



#### 2.1.3 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.



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Rev.: 01 9 of 22 Page: Final Test Mode: Mode d Phase: Line (ENV216\_L1+ENV216\_L1) 120 110 100-90 -80 -70 Level[dBµV] 60 50 40 30 20 10 0 150k 1M 10M 30M Frequency[Hz] - QP Limit - AV Limit -— РК QP Detector AV Detector Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1860	10.77	37.40	48.17	64.21	16.04	20.85	31.62	54.21	22.59	PASS
2	0.4650	10.57	27.25	37.82	56.60	18.78	12.70	23.27	46.60	23.33	PASS
3	1.5765	10.77	28.21	38.98	56.00	17.02	16.05	26.82	46.00	19.18	PASS
4	2.5080	10.66	26.93	37.59	56.00	18.41	14.29	24.95	46.00	21.05	PASS
5	5.8200	10.67	25.39	36.06	60.00	23.94	16.01	26.68	50.00	23.32	PASS
6	10.7790	10.61	26.84	37.45	60.00	22.55	17.95	28.56	50.00	21.44	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).

3. Margin = Limit[dB $\mu$ V] – Value[dB $\mu$ V]



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Final	Test Mode:		Mode d			Phase:			Neutral		
	120 110 100 90 80 70 60 50 40 - 1 100 - 100 -		/ Limit — PK	Mr. Way Mark	Martin Martin Ma	guency[Hz]			ом		
	<ul> <li>QP [</li> </ul>	Detector 🔹	AV Detector								
Final	Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1590	10.72	39.59	50.31	65.52	15.21	26.14	36.86	55.52	18.66	PASS
2	0.3300	10.79	28.14	38.93	59.45	20.52	10.66	21.45	49.45	28.00	PASS
3	1.2435	10.78	26.57	37.35	56.00	18.65	17.57	28.35	46.00	17.65	PASS

6 Remark:

4

5

2.4090

5.8200

10.9410

1. The following Quasi-Peak and Average measurements were performed on the EUT:

38.30

36.35

38.03

56.00

60.00

60.00

17.70

23.65

21.97

15.38

16.55

18.70

2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).

27.52

25.76

27.36

3. Margin = Limit[dBµV] – Value[dBµV]

10.78

10.59

10.67



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Test Requirement:	47 CFR Part 15, Subpart B				
Test Method:	ANSI C63.4:2014				
Frequency Range:	30MHz to 1GHz				
Measurement Distance:	3m				
	Frequency Range (MHz)	Limit(dBµV/m)	Detector		
	30MHz -88MHz	40.0	Quasi-peak		
Limit:	88MHz-216MHz	43.5	Quasi-peak		
	216MHz-960MHz	46.0	Quasi-peak		
	960MHz-1000MHz	54.0	Quasi-peak		
Detector:	Peak for pre-scan (120kHz res	solution bandwidth) 30M	to1000MHz		

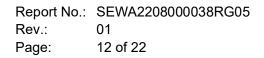
### 2.2 Radiated Emissions (30MHz-1GHz)

### 2.2.1 E.U.T. Operation

Elerit epolation	
Temperature:	22~23°C
Humidity:	44~46%RH
Atmospheric Pressure:	101.0kPa
Pretest these modes to find the worst case:	a: USB (adapter input)+BT+2.4GWLAN +GNSS +LTE Band 5 b: USB (adapter input)+BT+2.4GWLAN +GNSS +LTE Band 12 c: USB (adapter input)+BT+2.4GWLAN +GNSS +LTE Band 13 d: USB (adapter input)+BT+2.4GWLAN +GNSS +LTE Band 14 e: USB (adapter input)+BT+2.4GWLAN +GNSS +LTE Band 17 f: USB (adapter input)+BT+2.4GWLAN +GNSS +LTE Band 26 g: USB (adapter input)+BT+2.4GWLAN +GNSS +LTE Band 71
The worst case for final test:	f: USB (adapter input)+BT+2.4GWLAN +GNSS +LTE Band 26



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#### 2.2.2 Test Setup Procedures

1. The EUT was placed in a semi Anechoic Chamber as show below

2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

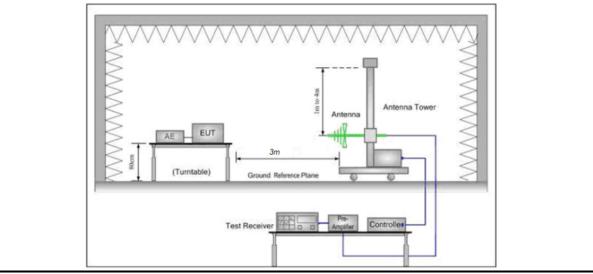
3. The table was rotated 360 degrees to determine the position of the highest radiation.

4. The antenna height is adjusted between 1 to 4 meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.

5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.

6. Set the test-receiver system to Peak Detect Function with specified bandwidth with Maximum Hold Mode, and the trace was allowed to stabilize.

7. If the emission level of the EUT in peak mode was 6 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.



#### 2.2.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

The three polarities of X,Y,Z were measured by EUT, but only the worst data had been displayed.



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nal T	est Mode:	М	ode f		Po	larization:		Horiz	ontal	
Leve[dBµV/m]	140 130 120 110 100 90 80 70 60 50 40 30 20 10 -10 30M			100M						
	30101									
	QP Limit     QP Detector	Horizon	tal PK		Frequency	Hz]				
	QP Limit		AF [dB/m]	Factor [dB]	Frequency QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarit
Fina	QP Limit     QP Detects	Reading	AF		QP Value	QP Limit	Margin	-	-	
Fina NO.	QP Limit     QP Detects	Reading [dBµV]	AF [dB/m]	[dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	Margin [dB]	[cm]	[°]	Horizon
Fina NO. 1	QP Limit • QP Detector I Data List Frequency [MHz] 82.5597	Reading [dBµV] 37.03	AF [dB/m] 9.33	[dB] -27.87	QP Value [dBµV/m] 18.49	QP Limit [dBµV/m] 40.00	Margin [dB] 21.51	[cm] 220	[°] 25.8	Horizon Horizon
<b>Fina</b> NO. 1 2	← QP Limit	Reading [dBµV] 37.03 36.12	AF [dB/m] 9.33 9.91	[dB] -27.87 -27.46	QP Value [dBµV/m] 18.49 18.57	QP Limit [dBµV/m] 40.00 43.50	Margin [dB] 21.51 24.93	[cm] 220 219	[°] 25.8 111	Horizon Horizon Horizon
Fina NO. 1 2 3	QP Limit • QP Detect I Data List Frequency [MHz] 82.5597 96.5714 120.6129	Reading [dBμV] 37.03 36.12 36.58	AF [dB/m] 9.33 9.91 12.26	[dB] -27.87 -27.46 -27.68	QP Value [dBµV/m] 18.49 18.57 21.16	QP Limit [dBµV/m] 40.00 43.50 43.50	Margin [dB] 21.51 24.93 22.34	[cm] 220 219 214	[°] 25.8 111 360	Polarit Horizon Horizon Horizon Horizon
Fina NO. 1 2 3 4	QP Limit	Reading [dBµV] 37.03 36.12 36.58 31.85	AF [dB/m] 9.33 9.91 12.26 14.36	[dB] -27.87 -27.46 -27.68 -26.52	QP Value [dBµV/m] 18.49 18.57 21.16 19.69	QP Limit [dBµV/m] 40.00 43.50 43.50 43.50	Margin [dB] 21.51 24.93 22.34 23.81	[cm] 220 219 214 106	[°] 25.8 111 360 356	Horizon Horizon Horizon Horizon

Remark:

1. The Quasi-Peak measurements were performed on the EUT.

2. Value = Reading + AF + Factor:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Margin = Limit[dBµV/m] –Value[dBµV/m]

Note\*: #7 30M-1G: is system simulator signal which can be ignored.



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nal T	est Mode:	M	ode f		Po	larization:		Verti	cal	
1 1 1 1	20	Mure a		particular and the	hill here the start					
	-10 -10 -10 -10 -10 -10 -10 -10 -10 -10	Vertical	РК	100M	Frequency[	Hz]				1G
	30M		РК	100M	Frequency	Hz]				1G
	30M QP Limit		рк AF [dB/m]	Factor [dB]	Frequency QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarit
Final	aoM → QP Limit → QP Detector I Data List Frequency	Reading	AF	Factor	QP Value	QP Limit	Margin	-		
Final NO.	aom → QP Limit → QP Detector I Data List Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	Margin [dB]	[cm]	[°]	Polarit
Final NO. 1	OP Limit ◆ OP Detect I Data List Frequency [MHz] 44.1750	Reading [dBµV] 39.86	AF [dB/m] 13.73	Factor [dB] -28.05	QP Value [dBµV/m] 25.54	QP Limit [dBµV/m] 40.00	Margin [dB] 14.46	[cm] 215	[°] 252	Polarit Vertica
<b>Final</b> NO. 1 2	30M → QP Limit → QP Detect I Data List Frequency [MHz] 44.1750 55.2943	Reading [dBµV] 39.86 43.40	AF [dB/m] 13.73 13.13	Factor [dB] -28.05 -27.81	QP Value [dBµV/m] 25.54 28.72	QP Limit [dBµV/m] 40.00 40.00	Margin [dB] 14.46 11.28	[cm] 215 163	[°] 252 211	Polarit Vertica Vertica
<b>Final</b> NO. 1 2 3	30M → QP Limit → QP Detect I Data List Frequency [MHz] 44.1750 55.2943 93.0164	Reading [dBµV] 39.86 43.40 45.88	AF [dB/m] 13.73 13.13 9.64	Factor [dB] -28.05 -27.81 -27.58	QP Value [dBµV/m] 25.54 28.72 27.94	QP Limit [dBµV/m] 40.00 40.00 43.50	Margin [dB] 14.46 11.28 15.56	[cm] 215 163 106	[°] 252 211 127	Polarit Vertica Vertica
<b>Final</b> NO. 1 2 3 4	30M QP Limit • QP Detects I Data List Frequency [MHz] 44.1750 55.2943 93.0164 120.0239	Reading [dBµV] 39.86 43.40 45.88 38.37	AF [dB/m] 13.73 13.13 9.64 12.24	Factor [dB] -28.05 -27.81 -27.58 -27.71	QP Value [dBµV/m] 25.54 28.72 27.94 22.90	QP Limit [dBµV/m] 40.00 40.00 43.50 43.50	Margin [dB] 14.46 11.28 15.56 20.60	[cm] 215 163 106 142	[°] 252 211 127 209	Polarit Vertica Vertica Vertica

Remark:

1. The Quasi-Peak measurements were performed on the EUT.

2. Value = Reading + AF + Factor:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Margin = Limit[dBµV/m] –Value[dBµV/m]

Note\*: #7 30M-1G: is system simulator signal which can be ignored.



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Test Requirement:	47 CFR Part 15, Subpart B					
Test Method:	ANSI C63.4:2014	ANSI C63.4:2014				
Frequency Range:	Above 1GHz					
Measurement Distance:	3m					
	Frequency (MHz)	Limit (dBµV/m)	Detector			
Limit:	Above 1GHz	74	Peak			
	Above IGHZ	54 Average				
Detector:	Peak for pre-scan (1000kHz resolution bandwidth) 5th harmonic of the highest frequency or 40GHz, whichever is lower.					

### 2.3 Radiated Emissions (above 1GHz)

### 2.3.1 E.U.T. Operation

Eletti Eletti operation	
Temperature:	22~23°C
Humidity:	44~46%RH
Atmospheric Pressure:	101.0kPa
Pretest these modes to find the worst case:	a: USB (adapter input)+BT+2.4GWLAN +GNSS +LTE Band 5 b: USB (adapter input)+BT+2.4GWLAN +GNSS +LTE Band 12 c: USB (adapter input)+BT+2.4GWLAN +GNSS +LTE Band 13 d: USB (adapter input)+BT+2.4GWLAN +GNSS +LTE Band 14 e: USB (adapter input)+BT+2.4GWLAN +GNSS +LTE Band 17 f: USB (adapter input)+BT+2.4GWLAN +GNSS +LTE Band 26 g: USB (adapter input)+BT+2.4GWLAN +GNSS +LTE Band 71
The worst case for final test:	g: USB (adapter input)+BT+2.4GWLAN +GNSS +LTE Band 71



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#### 2.3.2 Test Setup Procedures

1. The EUT was placed in a full Anechoic Chamber as show below

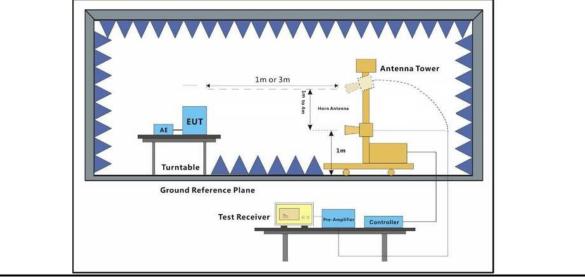
- 2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiation
  - (Distance from antenna to EUT is 1m for measurements >18GHz).

4. The antenna height is adjusted between 1 to 4 meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.

5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.

6. Set the test-receiver system to Peak and AV Detect Function with specified bandwidth with Maximum Hold Mode, and the trace was allowed to stabilize.

7. At a measurement distance of 1 meter the limit line was increased by 20\*LOG(3/1) = 9.54 dB.



#### 2.3.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

The three polarities of X, Y, Z were measured by EUT, but only the worst data had been displayed. Scan from 5th harmonic of the highest frequency or 40GHz, whichever is lower, the disturbance above 18GHz was very low. The points marked on below plots are the highest emissions could be found when testing, so only below points had been displayed.

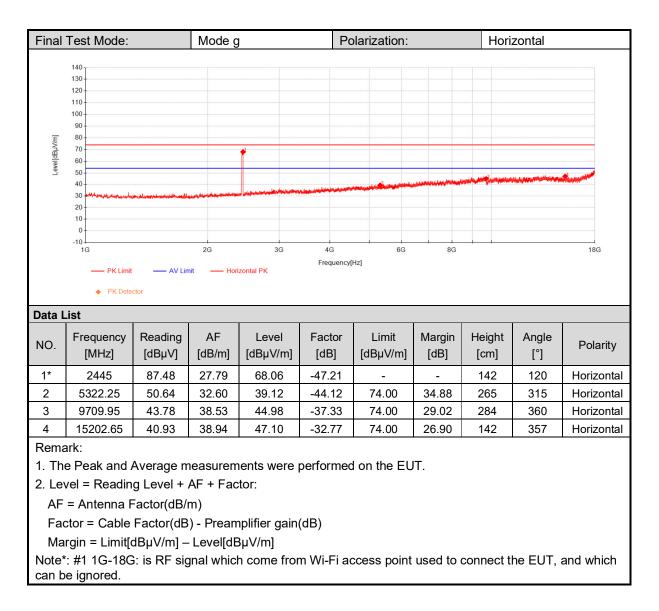




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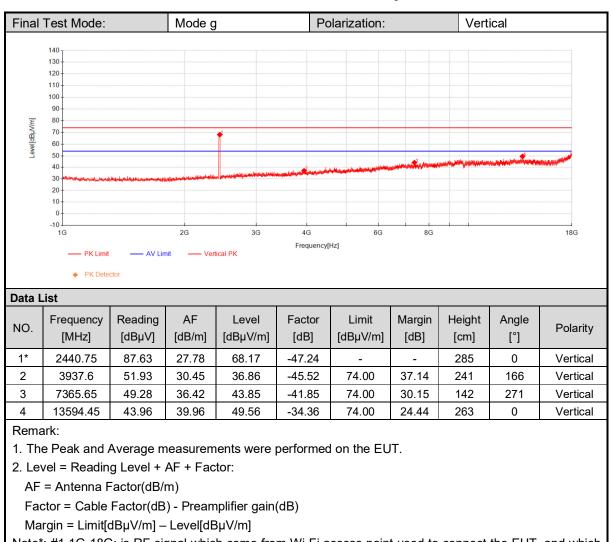


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Note\*: #1 1G-18G: is RF signal which come from Wi-Fi access point used to connect the EUT, and which can be ignored.



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### 3 Equipment List

CE Test System						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)	
Wideband Radio Communication Tester	Anritsu	MT8820C	SUWI-01-16-08	2023/02/06	2024/02/05	
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2023/02/07	2024/02/06	
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07	
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-03	2023/02/08	2024/02/07	
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-04	2023/02/08	2024/02/07	
Wideband Radio Communication Tester	Anritsu	MT8821C	SUWI-01-26-03	2022/11/23	2023/11/22	
Measurement Software CE	Tonsend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR	



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South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Pank, Suzhou Area, China (Jiangsu) Plot Free Trade Zone 215000 中国 • 苏州 • 中国(江苏)自由贸易试验区苏州片区苏州工业限区消胜路1号的6号厂房南部 邮编: 215000 t (86–512) 62992980 www.sgsgroup.com.cn t (86–512) 62992980 sgs.china@sgs.com

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RE Test System						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)	
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/05/08	2024/05/07	
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2023/02/07	2024/02/06	
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27	
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07	
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/05/16	2023/05/15	
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15	
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2023/02/06	2024/02/05	
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2023/02/06	2024/02/05	
Wideband Radio Communication Tester	Anritsu	MT8820C	SUWI-01-16-08	2023/02/06	2024/02/05	
Wideband Radio Communication Tester	Anritsu	MT8821C	SUWI-01-26-03	2022/11/23	2023/11/22	
Measurement Software	Tonscend	JS32-RE 4.0.0.0	SUWI-02-09-04	NCR	NCR	



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### 4 Measurement Uncertainty

No.	Item	Measurement Uncertainty					
1	Conduction Emission	± 2.9dB (150kHz to 30MHz)					
0	Dedicted Emission	± 4.8dB (Below 1GHz)					
2	Radiated Emission	± 4.8dB (1GHz to 18GHz)					
Remark	Remark:						
The U <sub>lab</sub>	The $U_{Iab}$ (lab Uncertainty) is less than $U_{cispr/ETSI}$ (CISPR/ETSI Uncertainty), so the test results						
– comp	- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;						
– non-c	– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.						



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### 5 Photographs

### 5.1 Test Setup

Refer to Appendix A.1 15B Setup Photos.

---End of Report---



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