



## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250300021305

Rev.: 01

Page: 1 of 29

# TEST REPORT

**Application No.:** SUCR2503000213AT  
**Applicant:** Shanghai Sunmi Technology Co.,Ltd.  
**Address of Applicant:** Room 505,No.388,Song Hu Road,Yang Pu District,Shanghai,China  
**Manufacturer:** Shanghai Sunmi Technology Co.,Ltd.  
**Address of Manufacturer:** Room 505,No.388,Song Hu Road,Yang Pu District,Shanghai,China  
**EUT Description:** Wireless data POS System  
**Model No.:** T5F01  
**Trade Mark:** SUNMI  
**FCC ID:** 2AH25T5F01N  
**Standards:** FCC 47 CFR Part 15, Subpart C 15.225  
**Date of Receipt:** March 17, 2025  
**Date of Test:** April 14, 2025 to April 25, 2025  
**Date of Issue:** May 22, 2025

<b>Test Result :</b>	<b>PASS *</b>
----------------------	---------------

\* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone:(86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)**

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.  
Wireless Laboratory

South of No. 6 Plant, No. 1, RunSheng Road, Suzhou Industrial Park,  
Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000

t (86-512) 6229 2980  
[www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250300021305  
Rev.: 01  
Page: 2 of 29

Version

Revision Record			
Version	Description	Date	Remark
01	Original	May 22, 2025	/

Authorized for issue by:				
Tested By				
		Hayley Zhang / Project Manager		
Approved By				
		Cloud Peng/Technical Manager		



## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250300021305

Rev.: 01

Page: 3 of 29

### Contents

<b>Version</b>	<b>2</b>
<b>1 Test Summary</b>	<b>4</b>
<b>2 General Information</b>	<b>5</b>
2.1 Details of Client	5
2.2 Test Location	5
2.3 Test Facility	5
2.4 General Description of EUT	6
2.5 Test Environment	6
2.6 Description of Support Units	6
<b>3 Equipment List</b>	<b>7</b>
<b>4 Measurement Uncertainty (95% confidence levels, k=2)</b>	<b>9</b>
<b>5 Test results and Measurement Data</b>	<b>10</b>
5.1 Antenna Requirement	10
5.2 Worst-case configuration and mode	10
5.3 AC Power Line Conducted Emissions	11
5.4 20dB Spectrum Bandwidth & 99% Occupied Bandwidth	14
5.5 Frequency Stability	15
5.6 Field Strength of Fundamental Emissions	16
5.7 Radiated Spurious Emissions	18
<b>6 Photographs - Setup Photos</b>	<b>20</b>
<b>7 Appendix</b>	<b>21</b>



## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250300021305

Rev.: 01

Page: 4 of 29

### 1 Test Summary

Test Item	FCC Rules No.	Test Method	Test Result	Result
Antenna Requirement	15.203	--	Clause 3.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013 Section 6.2	Clause 3.3	PASS
20dB Spectrum Bandwidth & 99% Occupied Bandwidth	15.215(c)	ANSI C63.10 2013 Section 6.9.3	Clause 3.4	PASS
Frequency Stability	15.225(e)	ANSI C63.10 2013 Section 6.8	Clause 3.5	PASS
Field Strength of Fundamental Emissions	15.225(a)(b)(c)	ANSI C63.10 2013 Section 6.4.7	Clause 3.6	PASS
Radiated Spurious Emissions	15.225(d)/15.209	ANSI C63.10 2013 Section 6.4/6.5	Clause 3.7	PASS



## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250300021305

Rev.: 01

Page: 5 of 29

## 2 General Information

### 2.1 Details of Client

Applicant:	Shanghai Sunmi Technology Co.,Ltd.
Address of Applicant:	Room 505,No.388,Song Hu Road,Yang Pu District,Shanghai,China
Manufacturer:	Shanghai Sunmi Technology Co.,Ltd.
Address of Manufacturer:	Room 505,No.388,Song Hu Road,Yang Pu District,Shanghai,China

### 2.2 Test Location

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

### 2.3 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



## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250300021305

Rev.: 01

Page: 6 of 29

### 2.4 General Description of EUT

EUT Description:	Wireless data POS System	
Model No.:	T5F01	
Trade Mark:	SUNMI	
Hardware Version:	Ambh6e	
Software Version:	SP3136_V019_20210430_sunmi	
Power Supply:	DC 7.7V by Rechargeable Li-Polymer Battery charged by Adapter Battery Model: JKPJ 2ICP5/62/70 Nominal voltage:7.7V Limited charge voltage:8.8V Rated capacity:3500mAh/26.95Wh Typical capacity:3600mAh/27.22Wh Adapter Model: CK18W02U INPUT:100-240V,50/60Hz,0.5A OUTPUT:5V,3A;9V,2A;12V,1.5A	
IMEI:	RSE & AC power line	862117061291315/869489051895162
Operation Frequency:	13.56MHz	
Modulation Type:	ASK	
Antenna Type:	Loop Antenna	
Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.		

### 2.5 Test Environment

Environment Parameter	101 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	120
Remark: The extreme Voltage and extreme Temperature are refer to the test data of Frequency Stability.		

### 2.6 Description of Support Units

The EUT has been tested as an independent unit.



## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250300021305

Rev.: 01

Page: 7 of 29

### 3 Equipment List

RF Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-08-01	11/9/2022	11/8/2025
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2/13/2025	2/12/2026
Measurement Software	Tonscend	TST272 V2.0	SUWI-03-55-03	NCR	NCR
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	5/8/2024	5/7/2025
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-02	5/9/2024	5/8/2025
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	1/21/2025	1/20/2026
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	1/15/2025	1/14/2026
Power meter	Anritsu	ML2495A	SUWI-01-31-01	11/19/2024	11/18/2025
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	11/19/2024	11/18/2025
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	1/15/2025	1/14/2026
Router	ASUS	GT-AXE11000(FCC ID MSQ-RTAXJF00)	SUWI-03-14-02	NCR	NCR
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-07	11/19/2024	11/18/2025



## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250300021305

Rev.: 01

Page: 8 of 29

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	1/15/2025	1/14/2026
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2/13/2025	2/12/2026
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-03	5/6/2024	5/5/2025
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-04	5/6/2024	5/5/2025
Measurement Software	Tonscend	JS32-CE 4.0.0.2	SUWI-02-09-05	NCR	NCR

RSE Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	6/3/2023	6/2/2026
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2/13/2025	2/12/2026
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	1/15/2025	1/14/2026
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9168	SUWI-01-11-04	11/25/2023	11/24/2025
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	5/13/2023	5/12/2025
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	1/16/2025	1/15/2026
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR

Remark: NCR=No Calibration Requirement.





## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250300021305

Rev.: 01

Page: 9 of 29

### 4 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	1%
2	Occupied Bandwidth	1%
3	Conduction Emission	± 2.90dB (150kHz to 30MHz)
4	Radiated Emission	± 3.13dB (9k -30MHz)
		± 4.88dB (30M -1GHz)
Remark: The U <sub>lab</sub> (lab Uncertainty) is less than U <sub>CISPR/ETSI</sub> (CISPR/ETSI Uncertainty), so the test results – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.		



## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250300021305

Rev.: 01

Page: 10 of 29

## 5 Test results and Measurement Data

### 5.1 Antenna Requirement

<b>Standard requirement:</b>	47 CFR Part 15C Section 15.203
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
The antenna of the EUT are permanently attached.	

### 5.2 Worst-case configuration and mode

The fundamental of the EUT was investigated under three orthogonal orientations X, Y, and Z. The X orientation was determined to be the worst-case orientation.

Although these tests were performed ther than open area test site, adequate comparison measurements were confirmed against 30m open are test site. Therefore sufficient tests were made to demonstrate that the alternative site prduces results that correlate with the ones of tests made in an ope field based on KDB 414788.

### 5.3 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150kHz to 30MHz		
Limit:	Frequency range(MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	* Decreases with the logarithm of the frequency.		
Test Procedure:	<div>1) The mains terminal disturbance voltage test was conducted in a shielded room.</div> <div>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.</div> <div>3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.</div> <div>4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.</div> <div>5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.</div>		
Test Setup:	<div><div>Shielding Room</div><div><div><div><div><div>AC Mains</div><div>LISN1</div></div><div><div>80cm</div><div>EUT</div><div>AE</div></div><div><div>80cm</div><div>LISN2</div><div>AC Mains</div></div><div><div>Test Receiver</div></div></div></div><div>Ground Reference Plane</div></div></div>		
Instruments Used:	Refer to section 6 for details.		
Test Results:	Pass		



## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250300021305

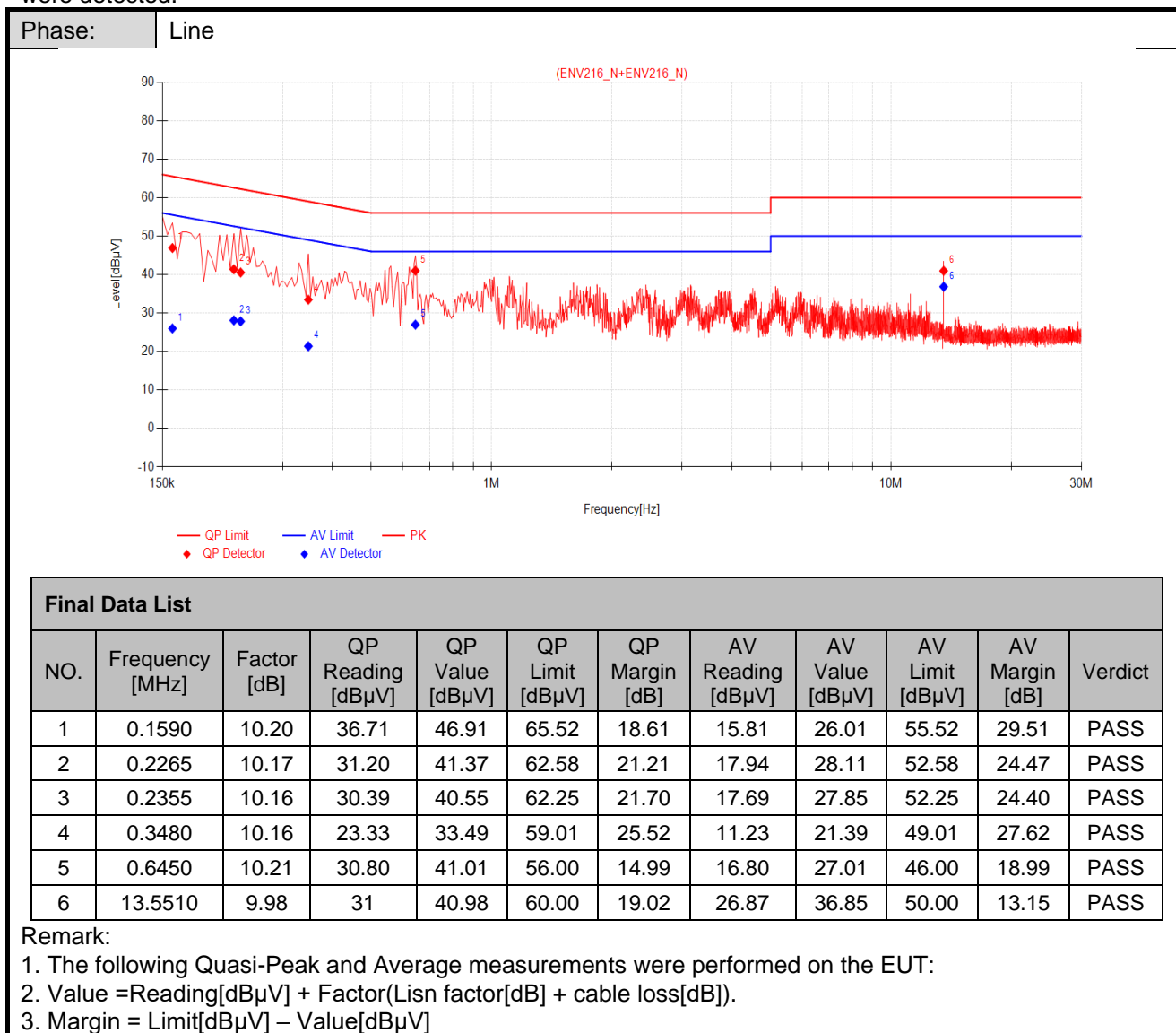
Rev.: 01

Page: 12 of 29

### Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



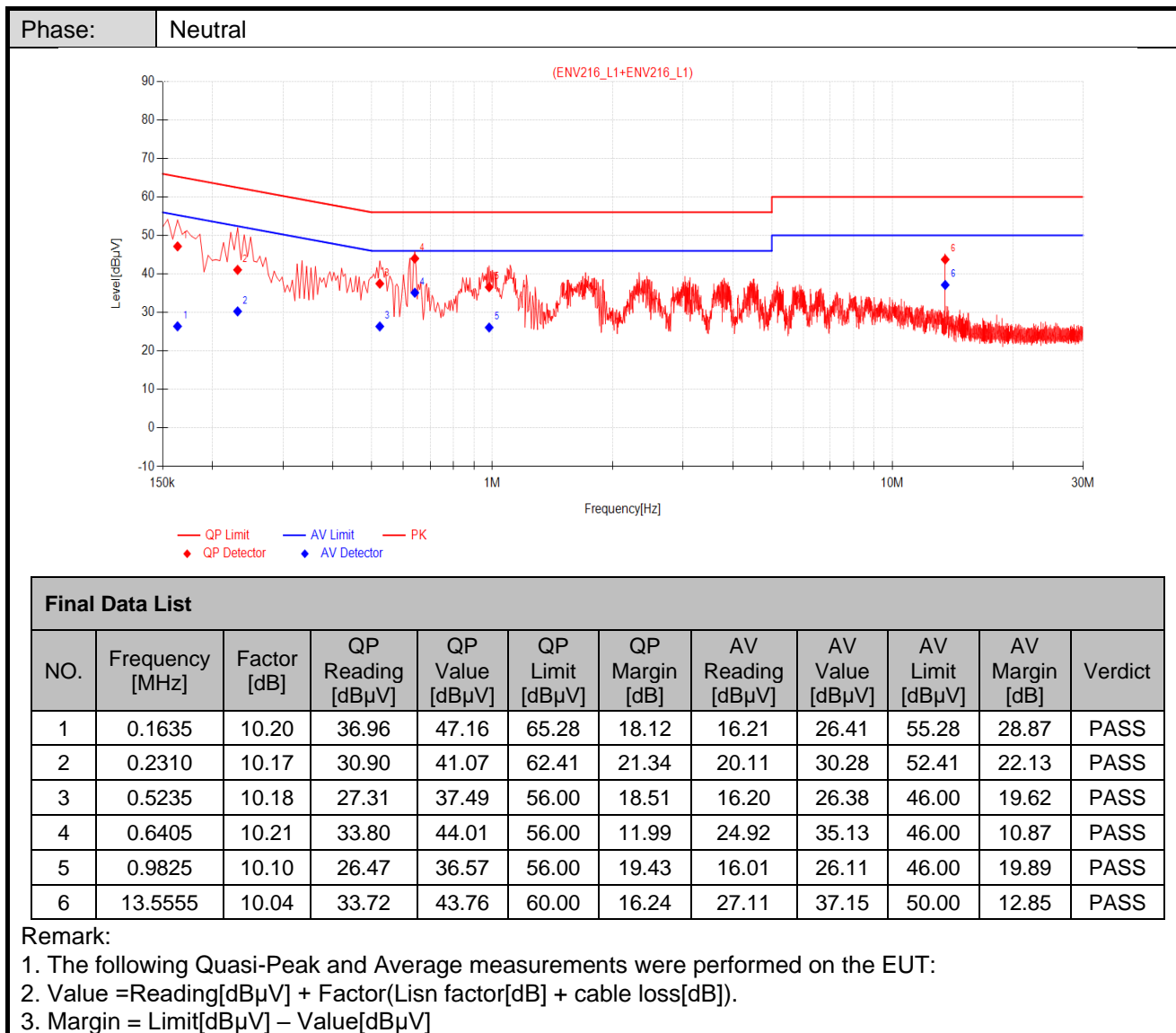


# SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

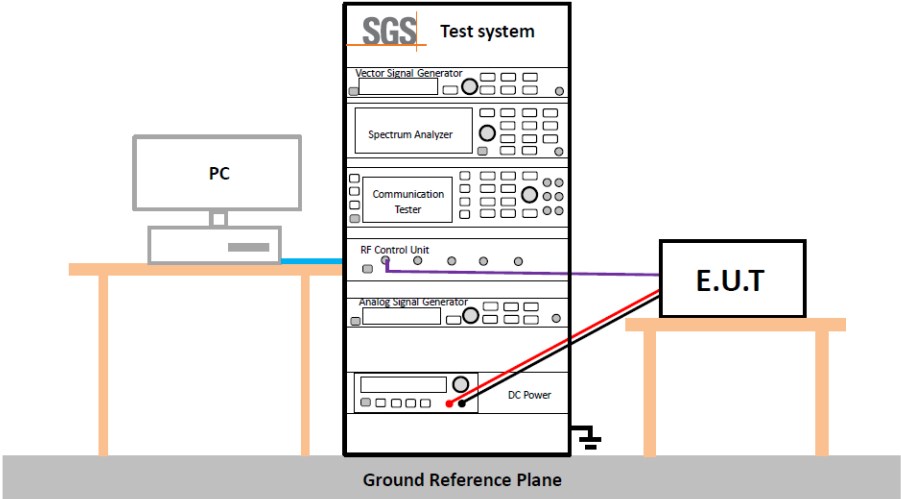
Report No.: SUCR250300021305

Rev.: 01

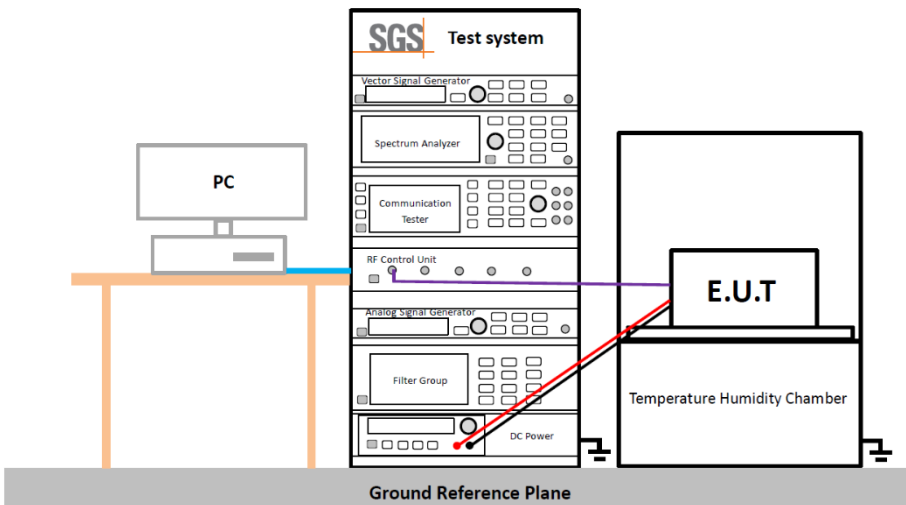
Page: 13 of 29



## 5.4 20dB Spectrum Bandwidth & 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.215(c)
Test Method:	ANSI C63.10: 2013 Section 6.9.3
Test Setup:	
Instruments Used:	Refer to section 6 for details
Limit:	Intentional radiators must be designed to ensure that the 20dB and 99% emission bandwidth in the specific band 13.553~13.567MHz.
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	

## 5.5 Frequency Stability

Test Requirement:	47 CFR Part 15C Section 15.225(e)
Test Method:	ANSI C63.10: 2013 Section 6.8
Test Setup:	
Instruments Used:	Refer to section 6 for details
Limit:	<p>The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% (100ppm) of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.</p> <p>While maintaining a constant temperature inside the environmental chamber, turn the EUT ON and record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized. Four measurements in total are made.</p>
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	

## 5.6 Field Strength of Fundamental Emissions

Test Requirement:	47 CFR Part 15C Section 15.225				
Test Method:	ANSI C63.10 :2013 Section 6.4.7				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Limit:	Frequency	Field Strength ( $\mu$ V/m) at 30m	Field Strength (dB $\mu$ V/m) at 30m	Field Strength (dB $\mu$ V/m) at 10m	Field Strength (dB $\mu$ V/m) at 3m
	1.705~13.110 MHz	30	29.5	48.58	69.5
	13.110-13.410 MHz	106	40.5	59.58	80.5
	13.410-13.553 MHz	334	50.5	69.58	90.5
	13.553-13.567 MHz	15,848	84.0	103.08	124.0
	13.567-13.710 MHz	334	50.5	69.58	90.5
	13.710-14.010 MHz	106	40.5	59.58	80.5
	14.010~30.000 MHz	30	29.5	48.58	69.5

### Test Setup:

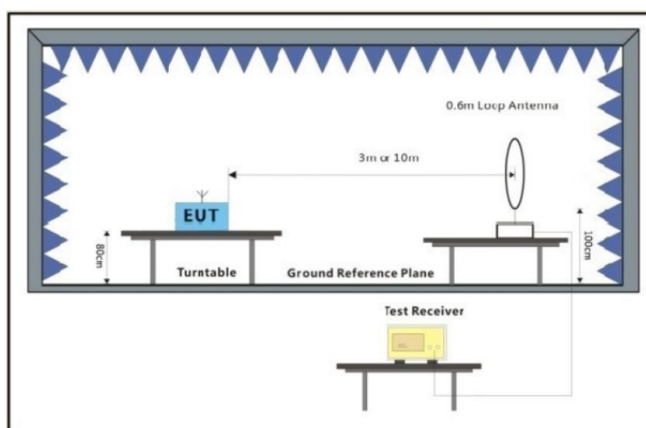


Figure 1. Below 30MHz

Test Procedure:	<ol style="list-style-type: none"> <li>The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</li> <li>Repeat above procedures until all frequencies measured was complete.</li> <li>RBW set to 9kHz.</li> </ol>
Exploratory Test	Transmitting with modulation.





## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250300021305

Rev.: 01

Page: 17 of 29

Mode:	Adapter + Transmitting mode.
Final Test Mode:	<b>Transmitting with modulation.</b> Pretest the EUT at Adapter + Transmitting mode. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	

## 5.7 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.225				
Test Method:	ANSI C63.10 :2013 Section 6.4&6.5				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	Above 960MHz	500	54.0	Quasi-peak	3
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.					

### Test Setup:

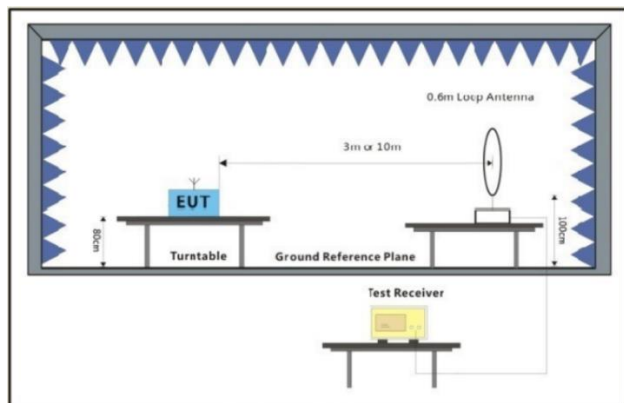


Figure 1. Below 30MHz

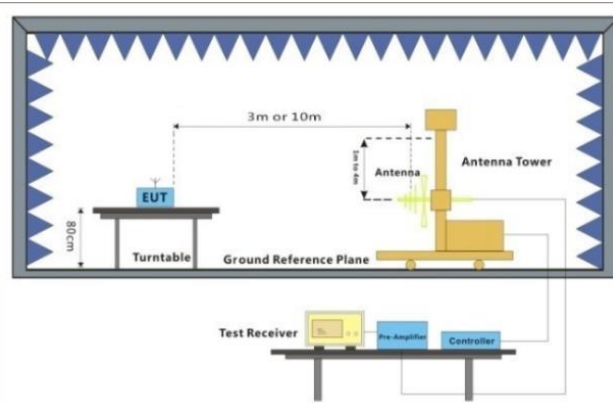


Figure 2. Above 30MHz

Test Procedure:	<p>i. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>j. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>k. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</p> <p>l. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>m. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>n. The radiation measurements are performed in X, Y, Z axis positioning for</p>
-----------------	---



## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250300021305

Rev.: 01

Page: 19 of 29

	Transmitting mode, And found the X axis positioning which it is worse case. o. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with modulation. Adapter + Transmitting mode.
Final Test Mode:	Transmitting with modulation. Pretest the EUT at Adapter + Transmitting mode.Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	



## **SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.**

Report No.: SUCR250300021305

Rev.: 01

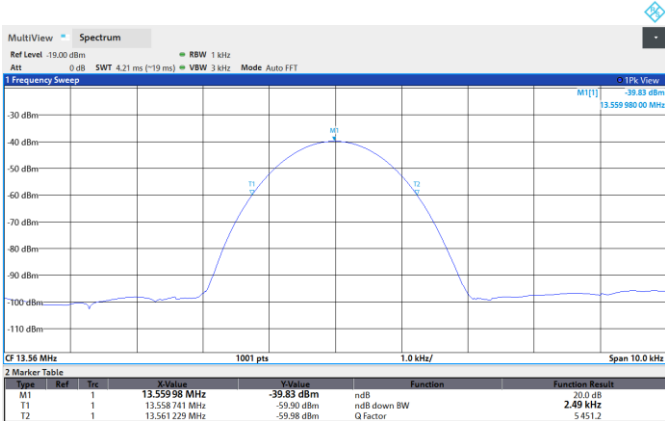
Page: 20 of 29

### **6 Photographs - Setup Photos**

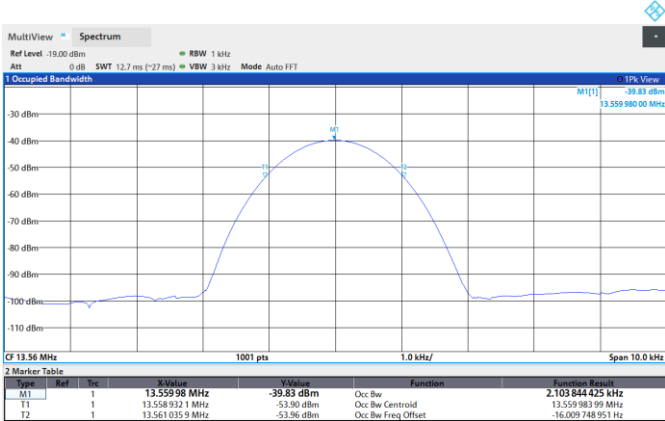
Refer to Appendix A.2 NFC Setup Photos.

### 7 Appendix

#### 20dB Bandwidth



#### 99% Occupied Bandwidth



Note:

Because the measured signal is CW or CW-like adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.



## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250300021305

Rev.: 01

Page: 22 of 29

### Frequency tolerance

Declared Frequency (MHz)		13.56MHz			
Startup					
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Frequency Tolerance (%)	Limit (%)	Result
50	3.85	13.55998	0.0001	±0.01	Pass
40		13.55998	0.0001		Pass
30		13.55997	0.0003		Pass
20		13.55996	0.0001		Pass
10		13.55998	0.0001		Pass
0		13.55996	0.0001		Pass
-10		13.55994	0.0003		Pass
-20		13.55995	0.0003		Pass
20		4.40	13.55996		0.0001
	3.60	13.55998	0.0001	Pass	

Declared Frequency (MHz)		13.56MHz			
2mins					
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Frequency Tolerance (%)	Limit (%)	Result
50	3.85	13.55997	0.0001	±0.01	Pass
40		13.55996	0.0001		Pass
30		13.55994	0.0001		Pass
20		13.55996	0.0003		Pass
10		13.55995	0.0002		Pass
0		13.55997	0.0002		Pass
-10		13.55998	0.0003		Pass
-20		13.55999	0.0003		Pass
20		4.40	13.55996		0.0003
	3.60	13.55997	0.0001	Pass	



## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250300021305

Rev.: 01

Page: 23 of 29

Declared Frequency (MHz)		13.56MHz			
5mins					
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Frequency Tolerance (%)	Limit (%)	Result
50	3.85	13.55998	0.0001	±0.01	Pass
40		13.55999	0.0001		Pass
30		13.55997	0.0001		Pass
20		13.55998	0.0003		Pass
10		13.55997	0.0002		Pass
0		13.55996	0.0001		Pass
-10		13.55997	0.0002		Pass
-20		13.55999	0.0001		Pass
20		4.40	13.55998		0.0001
	3.60	13.55996	0.0003	Pass	

Declared Frequency (MHz)		13.56MHz			
10mins					
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Frequency Tolerance (%)	Limit (%)	Result
50	3.85	13.55998	0.0001	±0.01	Pass
40		13.55999	0.0001		Pass
30		13.55997	0.0001		Pass
20		13.55998	0.0003		Pass
10		13.55999	0.0003		Pass
0		13.55997	0.0001		Pass
-10		13.55996	0.0003		Pass
-20		13.55997	0.0002		Pass
20		4.40	13.55998		0.0001
	3.60	13.55998	0.0001	Pass	



## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250300021305

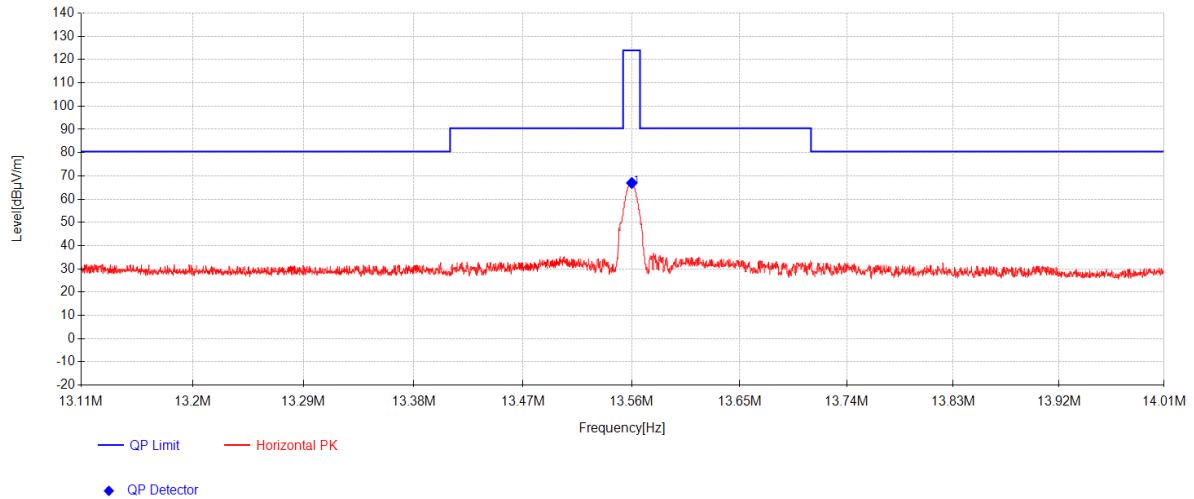
Rev.: 01

Page: 24 of 29

### Field Strength of Fundamental Emissions

#### NFC\_Emission Mask

Polarization: Horizontal



#### Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Polarity
1	13.5602	46.46	19.80	0.69	66.95	124.00	57.05	100	Coaxial

Remark:

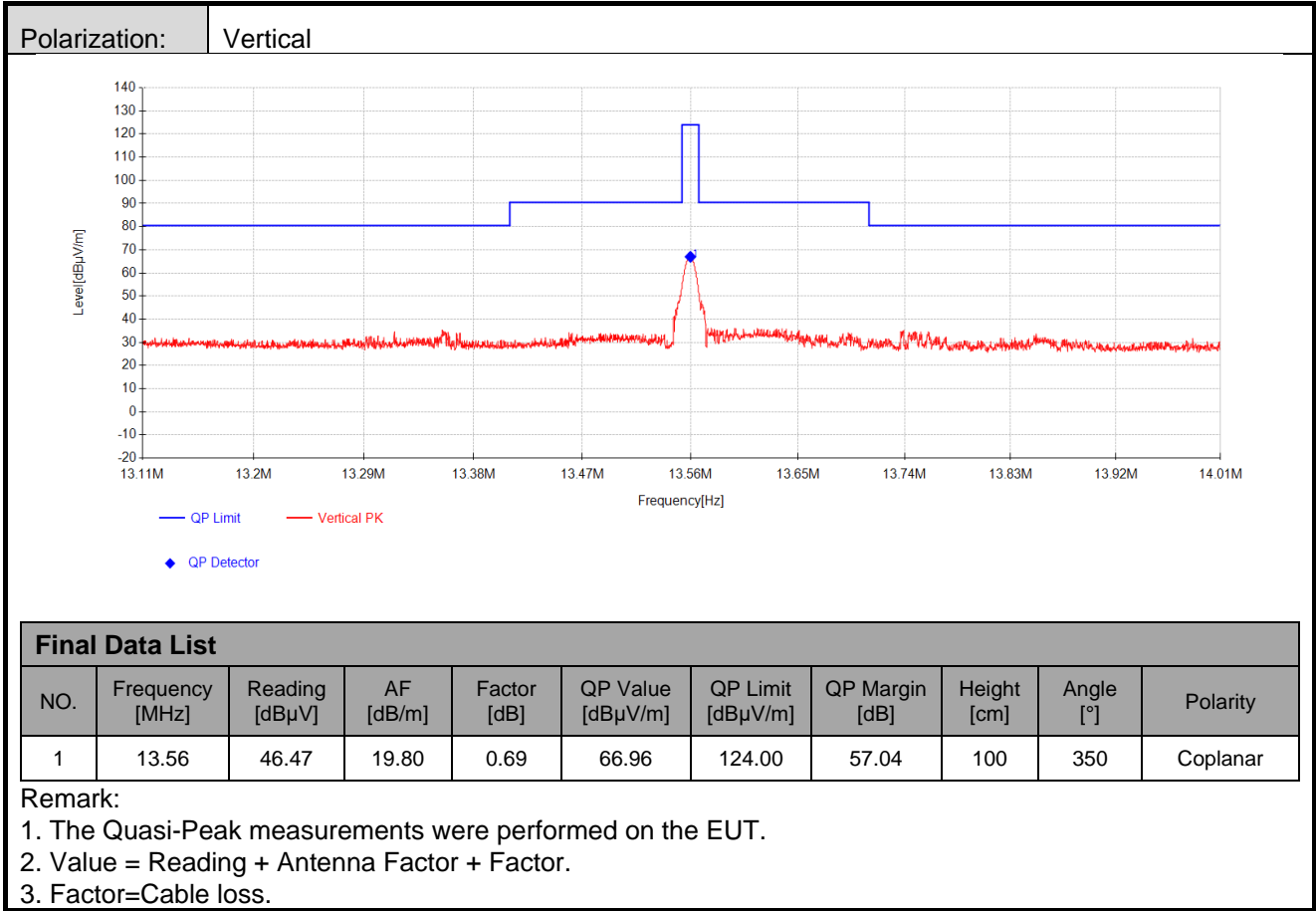
1. The Quasi-Peak measurements were performed on the EUT.
2. Value = Reading + Antenna Factor + Factor.
3. Factor=Cable loss.





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250300021305  
Rev.: 01  
Page: 25 of 29





## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250300021305

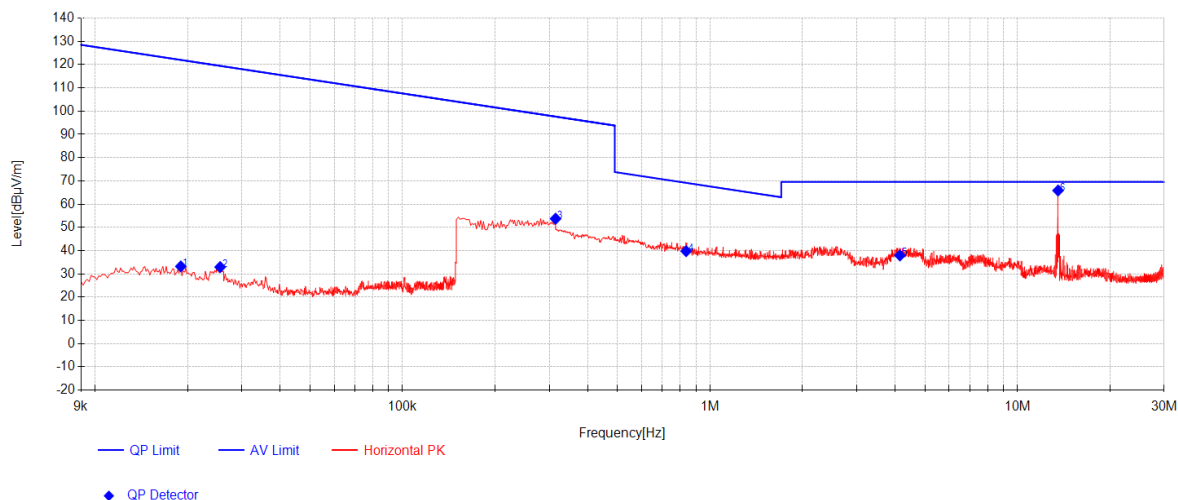
Rev.: 01

Page: 26 of 29

### Radiated Spurious Emissions

#### NFC\_RSE Below 30M

Polarization: Horizontal



#### Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
4	0.8364	19.32	20.00	0.45	39.76	69.16	29.40	100	210	Coaxial
5	4.148	17.63	19.80	0.51	37.94	69.54	31.60	100	193	Coaxial
6	13.559	45.38	19.80	0.69	65.87	69.54	3.67	100	340	Coaxial
NO.	Frequency [MHz]	AV Reading [dBμV]	AF [dB/m]	Factor [dB]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	0.019	12.76	20.02	0.43	33.21	122.02	88.81	100	233	Coaxial
2	0.0255	12.42	20.07	0.43	32.92	119.47	86.55	100	101	Coaxial
3	0.3146	33.04	20.25	0.44	53.73	97.65	43.92	100	43	Coaxial

#### Remark:

1. The Quasi-Peak measurements were performed on the EUT.
2. Value = Reading + Antenna Factor + Factor.
3. Factor=Cable loss.



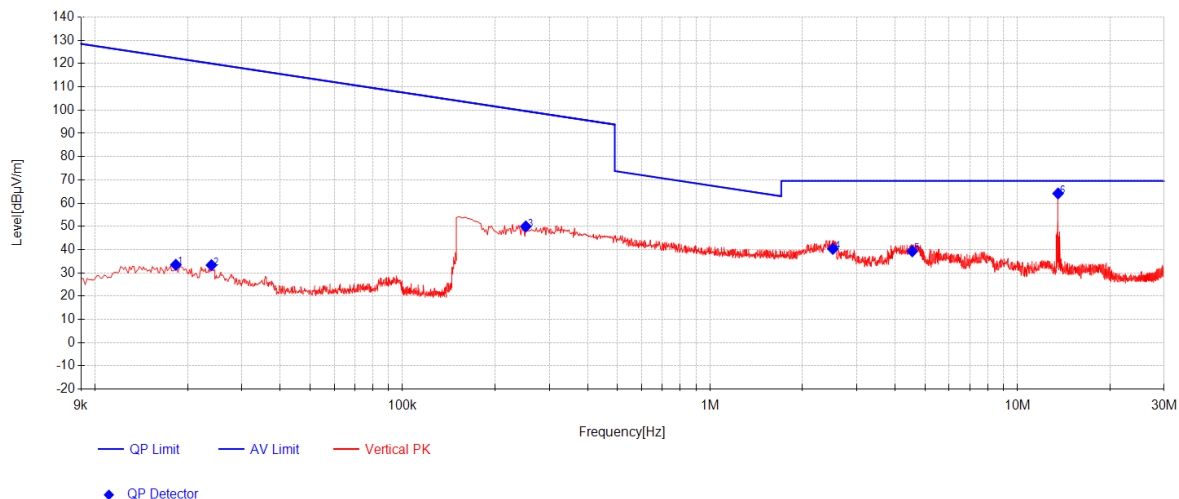
## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250300021305

Rev.: 01

Page: 27 of 29

Polarization: Vertical



### Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
4	2.51	20.03	19.82	0.48	40.33	69.54	29.21	100	359	Coplanar
5	4.55	18.96	19.80	0.52	39.28	69.54	30.26	100	333	Coplanar
6	13.559	43.65	19.80	0.69	64.14	69.54	5.40	100	357	Coplanar
NO.	Frequency [MHz]	AV Reading [dBμV]	AF [dB/m]	Factor [dB]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	0.0183	13.02	20.02	0.43	33.47	122.35	88.88	100	51	Coplanar
2	0.0239	12.82	20.06	0.43	33.31	120.03	86.72	100	224	Coplanar
3	0.2517	29.26	20.27	0.43	49.97	99.58	49.61	100	192	Coplanar

### Remark:

1. The Quasi-Peak measurements were performed on the EUT.
2. Value = Reading + Antenna Factor + Factor.
3. Factor=Cable loss.



## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

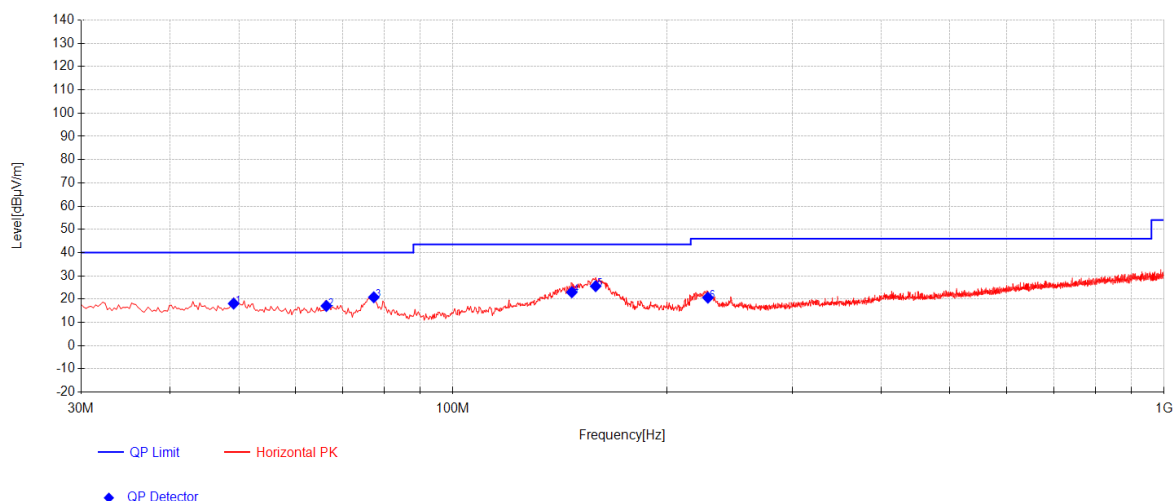
Report No.: SUCR250300021305

Rev.: 01

Page: 28 of 29

### NFC\_RSE Above 30M

Polarization: Horizontal



#### Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	49.1614	33.02	18.77	-33.70	18.09	40.00	21.91	211	313	Horizontal
2	66.3760	33.33	17.23	-33.47	17.09	40.00	22.91	120	6	Horizontal
3	77.4027	38.79	15.37	-33.36	20.80	40.00	19.20	220	57	Horizontal
4	146.9658	36.58	19.10	-32.71	22.97	43.50	20.53	220	319	Horizontal
5	158.7488	39.23	18.90	-32.57	25.56	43.50	17.94	179	285	Horizontal
6	228.3140	36.35	16.39	-32.11	20.63	46.00	25.37	120	38	Horizontal

#### Remark:

1. The Quasi-Peak measurements were performed on the EUT.
2. Final Value Level = Reading + Antenna Factor + Factor.
3. Factor=Cable loss – Preamplifier Factor.

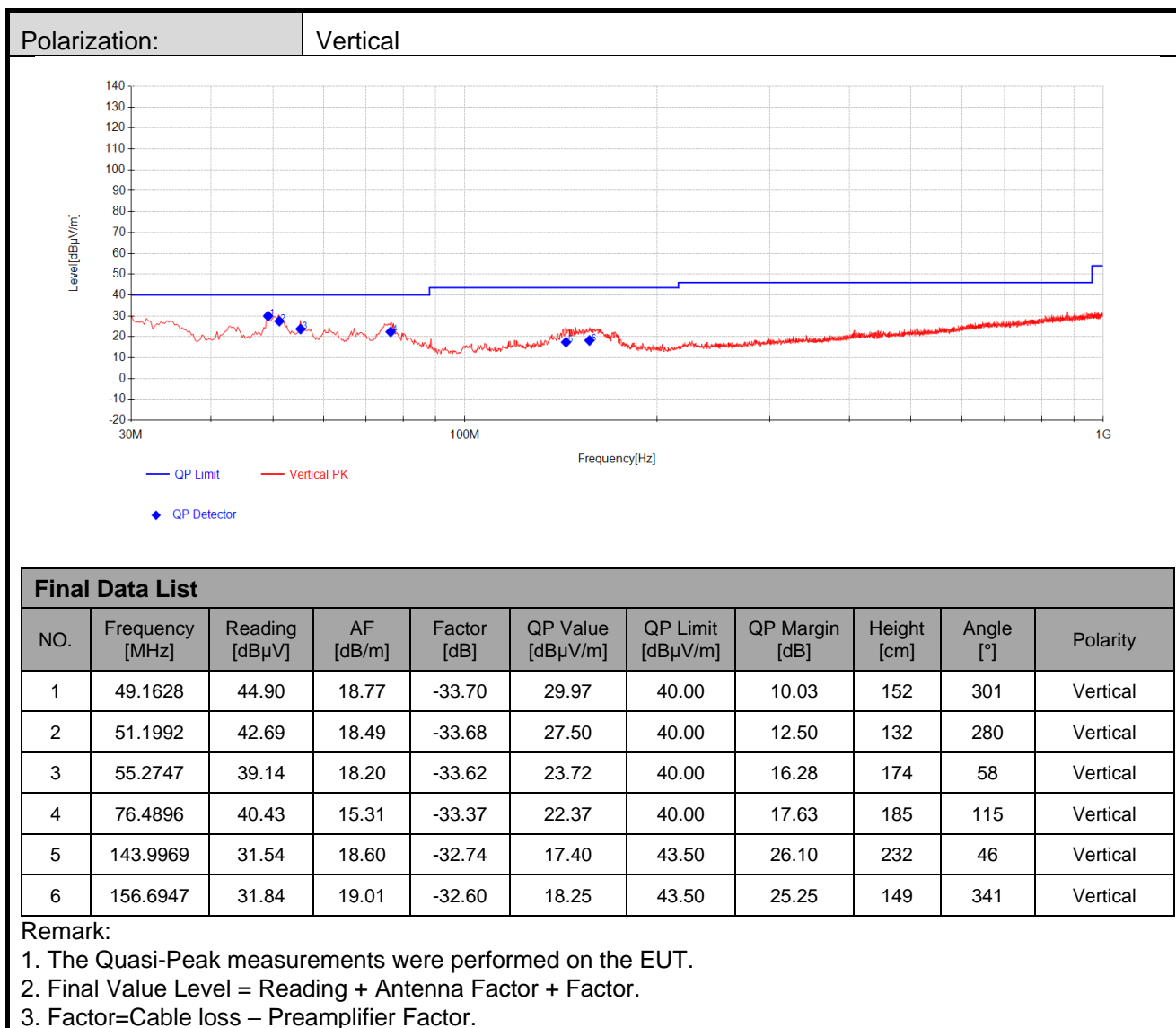


## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250300021305

Rev.: 01

Page: 29 of 29



---End of Report---