

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200460009

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# TEST REPORT

**Application No.:** SZCR2412004600AT

Applicant: Fujian Newland Payment Technology Co.,Ltd.

**Address of Applicant:** No. B602, Building #1, Haixia Jingmao Plaza, Fuzhou Bonded Area 350015,

Fujian, China

Manufacturer: Fujian Newland Payment Technology Co.,Ltd.

Address of Manufacturer: No. B602, Building #1, Haixia Jingmao Plaza, Fuzhou Bonded Area 350015,

Fujian, China

**Equipment Under Test (EUT):** 

**EUT Description: Unattended Terminal** 

U2000 Model No.: Trade Mark: Newland

FCC ID: 2AM6U-U2000

47 CFR Part 15, Subpart C 15.225 Standard(s):

**Date of Receipt:** 2024-12-06

2024-12-23 to 2024-12-28 Date of Test:

Date of Issue: 2025-01-14

Test Result: Pass\*

Keny Xu **EMC Laboratory Manager** 

Ceny. Ku



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record						
Version	Version Chapter Date Modifier Remai						
01		2025-01-14		Original			

Authorized for issue by:		
	Dorjar. Hn ang	
	Donjon Huang/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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#### 2 **Test Summary**

Radio Spectrum Technical Requirement					
Item Standard Method Requirement Result					
Antenna Requirement	47 CFR Part 15, Subpart C 15.225	N/A	47 CFR Part 15, Subpart C 15.203	Pass	

Radio Spectrum Matter Part						
Item	Standard	Method	Requirement	Result		
Conducted Emissions at Mains Terminals (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass		
20dB Bandwidth		ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass		
Emission Mask	47 CFR Part 15,	ANSI C63.10 (2013) Section 6.4	47 CFR Part 15, Subpart C 15.225(a)&(b)&(C)	Pass		
Frequency tolerance	Subpart C 15.225	ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart C 15.225(e)	Pass		
Radiated Emissions (9kHz-30MHz)		ANSI C63.10 (2013) Section 6.4&6.5	47 CFR Part 15, Subpart C 15.225(d) & 15.209	Pass		
Radiated Emissions (30MHz-1GHz)		ANSI C63.10 (2013) Section 6.4&6.5	47 CFR Part 15, Subpart C 15.225(d) & 15.209	Pass		



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### **General Information**

#### Details of E.U.T. 4.1

Power supply:	DC 12V from internal rechargeable battery which can be charge by AC/DC adapter Adapter model: ADS-25SGP-12
Operation Frequency:	13.56MHz
Modulation Type:	ASK

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

EUT 1	HDMI is not supported
EUT 2	HDMI is supported

#### 4.2 Environment Parameter

4.2 LIIVII OIIIII EIIL Fai	ametei			
Environment Parameter		Selected Values During Tests		
Relative Humidity		Ambient		
Value		Temperature(°C)		Voltage(V)
NTNV		20~25		24
LTLV		-20		12
LTHV		-20		48
HTLV		70		12
HTHV		70		48
Note:				
NV:Normal Voltage LV:Low Extreme Test Vo		ltage	HV:High Extre	me Test Voltage
NT:Normal Temperature LT:Low Extreme Test Ter		mperature	HT:High Extrer	me Test Temperature



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### 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at Mains Terminals (150kHz-30MHz)	± 3.1dB
20dB Bandwidth	± 3%
Emission Mask	± 4.5dB (Below 1GHz)
Frequency tolerance	± 3%
Radiated Emissions (9kHz-30MHz)	± 3.6dB
Radiated Emissions (30MHz-1GHz)	± 6.0dB for 3m; ± 5.0dB for 10m

#### 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.



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#### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

### 4.5 Test Facility

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

### • A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

#### VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz. 10m Semi-anechoic chamber for below 1GHz. Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

### • FCC -Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

### Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None



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#### 5 **Equipment List**

Conducted Emissions at Mains Terminals (150kHz-30MHz)							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13		
EMI Test Receiver	Rohde&Schwarz	ESR	SZ-WRG-M-047	2024-01-30	2025-01-29		
Measurement Software	AUDIX	e3 V8.2014- 6-27a	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM024-01	2024-07-06	2025-07-05		
LISN	Rohde&Schwarz	ENV216	SEM007-01	2024-08-15	2025-08-14		
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-14	2025-03-13		

20dB Bandwidth									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date				
DC Power Supply	Zhao Xin	PS-305D	SEM011-13	2024-08-14	2025-08-13				
Spectrum Analyzer	Rohde & Schwarz	FSP30	SEM004-06	2024-09-14	2025-09-13				
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05				
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2024-03-27	2025-03-26				

Emission Mask					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2024-03-26	2025-03-25
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2024-08-14	2025-08-13
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2023-09-23	2025-09-22
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2024-03-27	2025-03-26
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2024-07-06	2025-07-05



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Frequency tolerance								
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date			
DC Power Supply	Zhao Xin	PS-305D	SEM011-13	2024-08-14	2025-08-13			
Spectrum Analyzer	Rohde & Schwarz	FSP30	SEM004-06	2024-09-14	2025-09-13			
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05			
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2024-03-27	2025-03-26			
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18			

Radiated Emissions (9kHz-30MHz)									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date				
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2024-03-26	2025-03-25				
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2024-08-14	2025-08-13				
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2023-09-23	2025-09-22				
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2024-03-27	2025-03-26				
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19				
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM029-01	2024-07-06	2025-07-05				

Radiated Emissions (30MHz-1GHz)								
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date			
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2024-03-26	2025-03-25			
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2024-08-14	2025-08-13			
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2023-09-23	2025-09-22			
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2024-03-27	2025-03-26			
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19			
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM029-01	2024-07-06	2025-07-05			



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General used equipment								
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date			
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23			
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23			
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17			



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#### Radio Spectrum Technical Requirement 6

### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

### 6.1.2 Conclusion

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, 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.

#### **EUT Antenna:**

The antenna is a Loop Antenna, and the connection port is fixed with glue, and the antenna cannot be replaced.

Antenna location: Refer to Internal photos



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#### **Radio Spectrum Matter Test Results** 7

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

47 CFR Part 15, Subpart C 15.207 Test Requirement Test Method: ANSI C63.10 (2013) Section 6.2

#### Limit:

Fraguency range (MILT)	Limit (dBuV)				
Frequency range (MHz)	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	60	50			

<sup>\*</sup> Decreases with the logarithm of the frequency.

#### 7.1.1 E.U.T. Operation

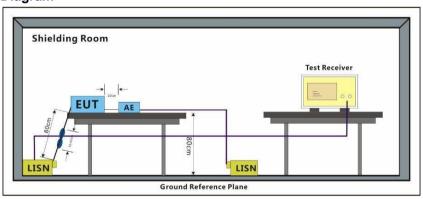
Operating Environment:

Temperature: 22.5 °C Humidity: 44.5 % RH Atmospheric Pressure: 1020 mbar

#### 7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	19	Charge + EUT1 TX mode with modulation
Final test	20	Charge + EUT2 TX mode with modulation

### 7.1.3 Test Setup Diagram





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#### 7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50µH + 5ohm 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.
- 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,
- 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.
- 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 on conducted measurement.

Remark: Level=Read Level+ Cable Loss+ LISN Factor



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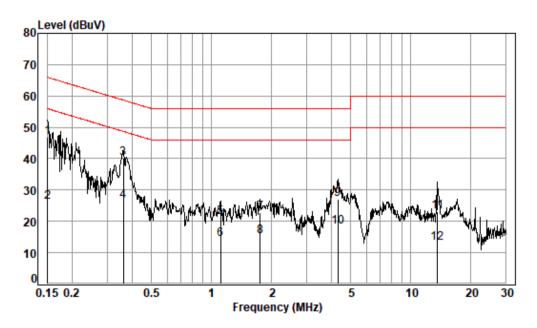


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Test Mode: 20; Line: Live line



: Shielding Room

Condition: Line Job No. : 04600AT

Test mode: 20

		Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	_	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1		0.1508	0.06	10.19	36.72	46.97	65.96	-18.99	QP
2		0.1508	0.06	10.19	15.88	26.13	55.96	-29.83	Average
3	*	0.3615	0.07	9.74	30.24	40.05	58.69	-18.64	QP
4	*	0.3615	0.07	9.74	16.72	26.53	48.69	-22.16	Average
5		1.1114	0.09	9.58	11.69	21.36	56.00	-34.64	QP
6		1.1114	0.09	9.58	4.69	14.36	46.00	-31.64	Average
7		1.7529	0.10	9.58	13.04	22.72	56.00	-33.28	QP
8		1.7529	0.10	9.58	5.61	15.29	46.00	-30.71	Average
9		4.2918	0.12	9.66	17.27	27.05	56.00	-28.95	QP
10		4.2918	0.12	9.66	8.50	18.28	46.00	-27.72	Average
11		13.5509	0.24	9.86	12.88	22.98	60.00	-37.02	QP
12		13.5509	0.24	9.86	3.00	13.10	50.00	-36.90	Average



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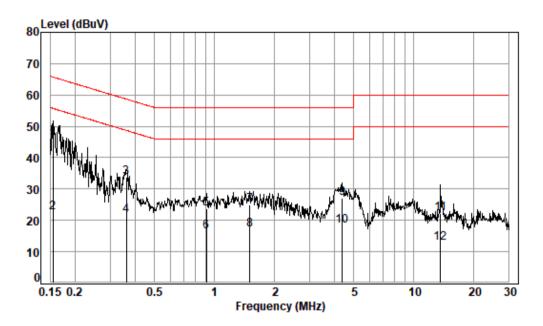


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Test Mode: 20; Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 04600AT

Test mode: 20

		Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	-	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	*	0.1548	0.06	10.14	35.70	45.90	65.74	-19.84	QP
2		0.1548	0.06	10.14	12.45	22.65	55.74	-33.09	Average
3		0.3615	0.07	9.75	23.89	33.71	58.69	-24.98	QP
4	*	0.3615	0.07	9.75	11.63	21.45	48.69	-27.24	Average
5		0.9136	0.09	9.57	14.08	23.74	56.00	-32.26	QP
6		0.9136	0.09	9.57	6.83	16.49	46.00	-29.51	Average
7		1.5033	0.10	9.55	15.15	24.80	56.00	-31.20	QP
8		1.5033	0.10	9.55	7.26	16.91	46.00	-29.09	Average
9		4.3606	0.12	9.55	17.48	27.15	56.00	-28.85	QP
10		4.3606	0.12	9.55	8.52	18.19	46.00	-27.81	Average
11		13.5509	0.24	9.78	12.15	22.17	60.00	-37.83	QP
12		13.5509	0.24	9.78	2.64	12.66	50.00	-37.34	Average



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#### 7.2 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215 Test Method: ANSI C63.10 (2013) Section 6.9

#### 7.2.1 E.U.T. Operation

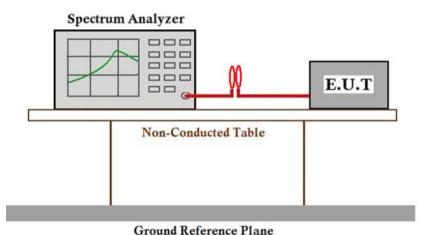
Operating Environment:

23.2 °C Atmospheric Pressure: 1020 mbar Temperature: Humidity: 48.1 % RH

#### 7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	19	EUT1 TX mode with modulation
Final test	20	EUT2 TX mode with modulation

### 7.2.3 Test Setup Diagram



#### 7.2.4 Measurement Procedure and Data

The useful radiated emission from the EUT was detected by the spectrum analyser with peak detector.



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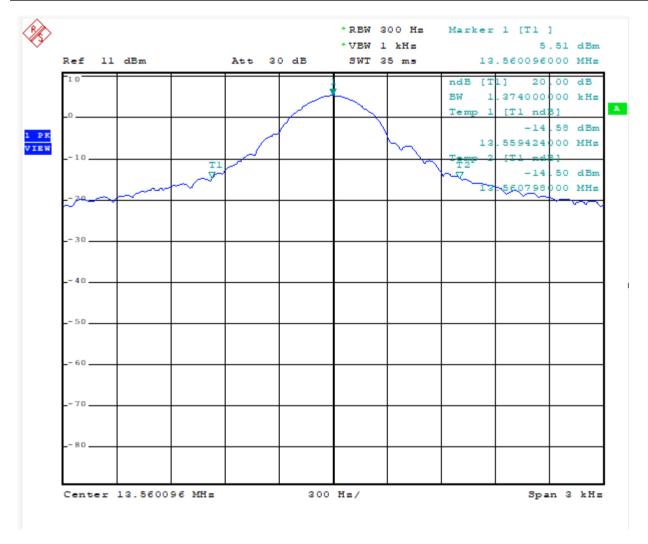


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f <sub>L</sub> (MHz)	-20 Bandwidth	Limit	Result
13.56	1.374 kHz	/	PASS





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### 7.3 Emission Mask

**Test Requirement** 47 CFR Part 15, Subpart C 15.225(a)&(b)&(C)

Test Method: ANSI C63.10 (2013) Section 6.4

Measurement Distance: 3m

Limit:

(a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.

- (b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.
- (c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.
- (d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.

#### Below 30MHz

The limit at 3m test distance is below:

$$FS_{\text{limit}} = FS_{\text{max}} - 40 \log \left( \frac{d_{\text{limit}}}{d_{\text{measure}}} \right)$$

where

 $FS_{\text{limit}}$ is the calculation of field strength at the limit distance, expressed in dBµV/m

 $FS_{\text{max}}$ is the measured field strength, expressed in dBµV/m is the distance of the measurement point from the EUT  $d_{\text{measure}}$ is the reference distance or the distance of the  $\lambda/2\pi$  point  $d_{\text{limit}}$ 

The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 124dBuV/m at 3 meters.

#### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 50.9 % RH Atmospheric Pressure: 1020 mbar

### 7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description							
Pre-scan	19	EUT1 TX mode with modulation							
Final test	20	EUT2 TX mode with modulation							



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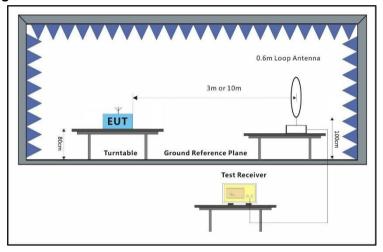
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#### 7.3.3 Test Setup Diagram



#### 7.3.4 Measurement Procedure and Data

For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report.



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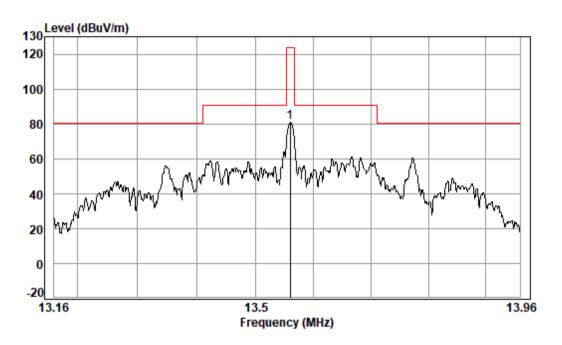


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MASK(coplanar)



Condition: 3m

Job No. : 04600AT/04601AT

Test Mode: 20

Ant Cable Preamp Read Limit 0ver Freq Level Factor Loss Factor Level Line Limit Remark MHz dBuV dB/m dB dB dBuV/m dBuV/m 13.560 103.48 8.55 1.16 32.50 80.69 124.00 -43.31 QP 1 pp



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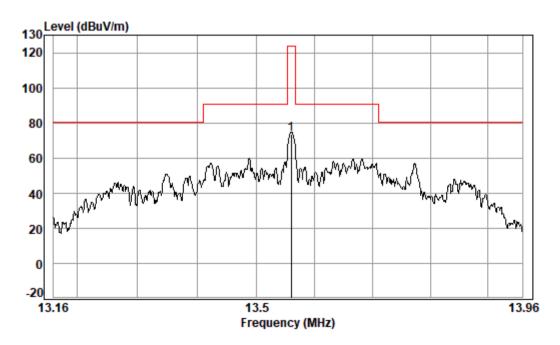


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### MASK(Coaxial)



Condition: 3m

Job No. : 04600AT

Test Mode: 20

	Freq		Ant Factor						Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 pp	13.560	96.54	8.55	1.16	32.50	73.75	124.00	-50.25	OP



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### 7.4 Frequency tolerance

Test Requirement 47 CFR Part 15, Subpart C 15.225(e) Test Method: ANSI C63.10 (2013) Section 6.8

Limit: ±0.01%

#### 7.4.1 E.U.T. Operation

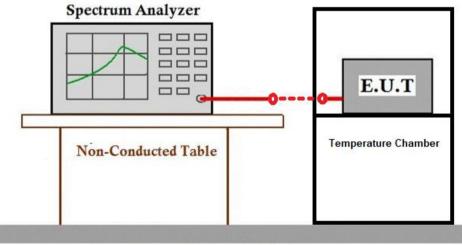
Operating Environment:

23.2 °C Temperature: Humidity: 48.1 % RH Atmospheric Pressure: 1020 mbar

### 7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	19	EUT1 TX mode with modulation
Final test	20	EUT2 TX mode with modulation

#### 7.4.3 Test Setup Diagram



Ground Reference Plane

#### 7.4.4 Measurement Procedure and Data

The EUT was placed in an environmental test chamber and powered such that control element received normal voltage and the transmitter provided maximum RF output.



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Declared Frequency (MHz)	13.56MHz	@10 minutes
--------------------------	----------	-------------

Temperature (°C)	Voltage(Vdc)	Measurement Frequency(MHz)	Frequency Tolerance (%)	Limit (%)	Result
50		13.560062	0.000460		Pass
40		13.560050	0.000366		Pass
30		13.560024	0.000177		Pass
20		13.560069	0.000507		Pass
10	24	13.560050	0.000366		Pass
0		13.560157	0.001156	±0.01	Pass
-10		13.560024	0.000177		Pass
-20		13.560154	0.001133		
-30		13.560107	0.000791		
20	12	13.560101	0.000743		Pass
20	48	13.560146	0.001074		Pass



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### 7.5 Radiated Emissions (9kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.225(d) & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4&6.5

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength (microvolts/meter)	Limit (dBuV/m)	Detector	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	-	-	300
0.490-1.705	24000/F(kHz)	-	-	30
1.705-30	30	-	-	30

#### Note:

At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

#### Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

#### 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 50.9 % RH Atmospheric Pressure: 1020 mbar

### 7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	19	EUT1 TX mode with modulation
Final test	20	EUT2 TX mode with modulation



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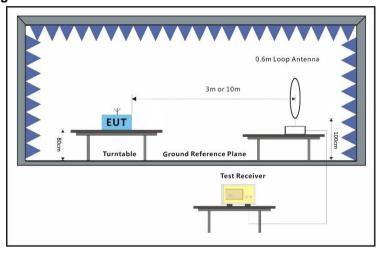
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#### 7.5.3 Test Setup Diagram



#### 7.5.4 Measurement Procedure and Data

For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report.



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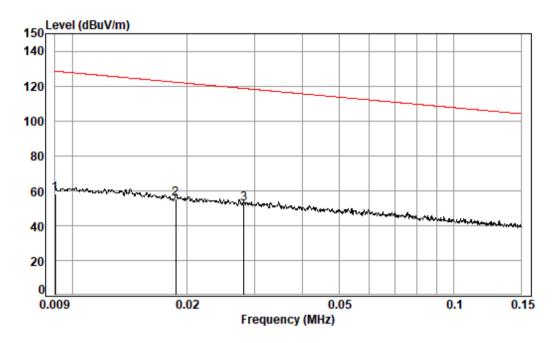


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9kHz~150kHz(coplanar)



Condition: 3m

Job No. : 04600AT/04601AT

Test Mode: 20

	Freq		Ant Factor						Remark
-	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	0.009	69.69	19.08	0.34	31.00	58.11	128.48	-70.37	Average
2	0.019	72.07	14.35	0.34	31.35	55.41	122.17	-66.76	Average
3 pp	0.028	71.31	12.45	0.34	31.70	52.40	118.61	-66.21	Average



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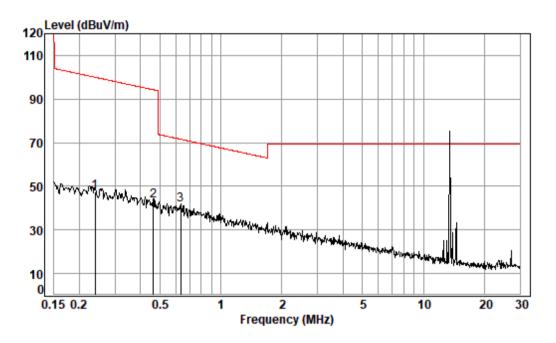


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150kHz~30MHz(coplanar)



Condition: 3m

Job No. : 04600AT/04601AT

Test Mode: 20

	Freq		Ant Factor						Remark
-	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	0.239	69.22	10.44	0.34	32.49	47.51	100.03	-52.52	Average
2 av	0.464	65.45	10.38	0.37	32.65	43.55	94.28	-50.73	Average
3 рр	0.634	63.63	10.36	0.40	32.65	41.74	71.55	-29.81	QP



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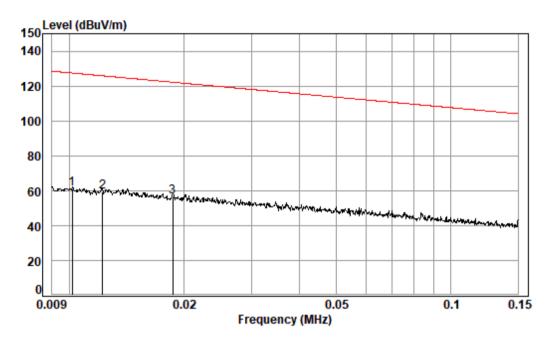


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9kHz~150kHz(Coaxial)



Condition: 3m

Job No. : 04600AT

Test Mode: 20

		Read	Ant	Cable	Preamp		Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
-									
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	0.010	73.61	18.13	0.34	31.04	61.04	127.45	-66.41	Average
2	0.012	72.86	17.21	0.34	31.12	59.29	125.84	-66.55	Average
3 рр	0.019	72.94	14.35	0.34	31.35	56.28	122.17	-65.89	Average



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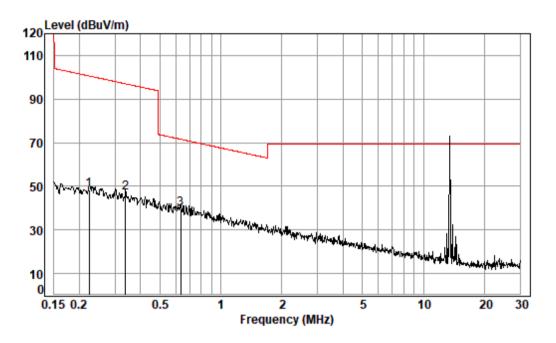


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150kHz~30MHz(Coaxial)



Condition: 3m

Job No. : 04600AT

Test Mode: 20

	Freq		Ant Factor						Remark
-	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	0.224	70.15	10.45	0.34	32.51	48.43	100.58	-52.15	Average
2 av	0.337	68.52	10.40	0.35	32.46	46.81	97.04	-50.23	Average
3 рр	0.634	61.57	10.36	0.40	32.65	39.68	71.55	-31.87	QP



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

Test Requirement 47 CFR Part 15, Subpart C 15.225(d) & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4&6.5

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	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 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.

#### 7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 50.9 % RH Atmospheric Pressure: 1020 mbar

#### 7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	19	EUT1 TX mode with modulation
Final test	20	EUT2 TX mode with modulation



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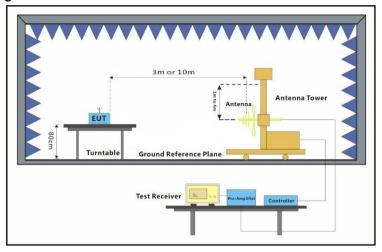
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#### 7.6.3 Test Setup Diagram



#### 7.6.4 Measurement Procedure and Data

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground for below 1GHz at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. 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. d. 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, e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. g. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report. Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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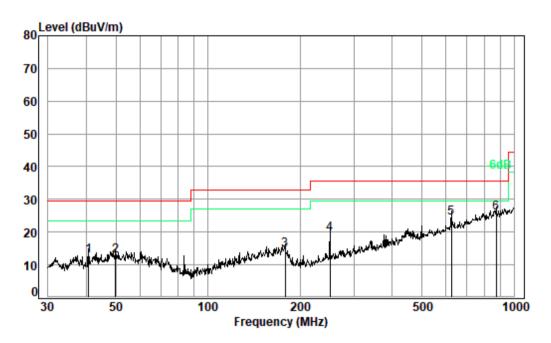


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Test Mode: 19; Polarity: Horizontal



Condition: 10m HORIZONTAL : 04600AT/04601AT Job No.

Test Mode:

: EUT1

		_							
	Гпол		Ant						Domanic
_	Freq		Factor		-actor	revei	Line		nemark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	40.702	28.08	16.81	0.48	32.50	12.87	29.50	-16.63	QP
2	49.881	26.42	18.19	0.54	32.50	12.65	29.50	-16.85	QP
3	178.758	29.90	16.10	1.07	32.50	14.57	33.00	-18.43	QP
4	250.301	34.73	15.91	1.30	32.45	19.49	35.60	-16.11	QP
5	625.078	30.39	24.59	2.16	32.75	24.39	35.60	-11.21	QP
6 pp	875.247	27.78	27.29	2.60	31.90	25.77	35.60	-9.83	QP



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The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

 $L_3 / L_{10} = D_{10} / D_3$ 

Note:

L<sub>3</sub>: Level @ 3m distance. Unit: uV/m; L<sub>10</sub>: Level @ 10m distance. Unit: uV/m;

D<sub>3</sub>: 3m distance. Unit: m D<sub>10</sub>: 10m distance. Unit: m

The level at 3m test distance is below:

3M HORIZONTAL												
Frequency	Level @ 10m	Level @	Level @	Limit @ 3m	Limit @ 3m	Over Limit	Remark					
MHz	dBuV/m	10m (uV/m)	3m (uV/m)	dBuV/m	dBuV/m	dB						
40.702	12.87	4.40	14.67	23.33	40.00	-16.67	QP					
49.881	12.65	4.29	14.30	23.11	40.00	-16.89	QP					
178.758	14.57	5.35	17.84	25.03	43.50	-18.47	QP					
250.301	19.49	9.43	31.43	29.95	46.00	-16.05	QP					
625.078	24.39	16.58	55.26	34.85	46.00	-11.15	QP					
875.247	25.77	19.43	64.77	36.23	46.00	-9.77	QP					



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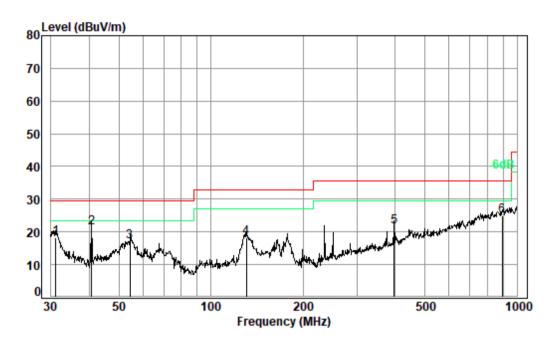


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Test Mode: 19; Polarity: Vertical



Condition: 10m VERTICAL Job No. : 04600AT/04601AT

Test Mode:

: EUT1

		Read	Ant	Cable	Preamp		Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
-	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	31.071	34.59	15.72	0.43	32.50	18.24	29.50	-11.26	QP
2 pp	40.702	36.46	16.81	0.48	32.50	21.25	29.50	-8.25	QP
3	54.452	31.01	18.00	0.56	32.49	17.08	29.50	-12.42	QP
4	130.379	33.48	16.29	0.87	32.50	18.14	33.00	-14.86	QP
5	397.633	32.57	19.68	1.65	32.40	21.50	35.60	-14.10	QP
6	893.857	26.69	27.33	2.63	31.82	24.83	35.60	-10.77	QP



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The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

 $L_3 / L_{10} = D_{10} / D_3$ 

Note:

L<sub>3</sub>: Level @ 3m distance. Unit: uV/m; L<sub>10</sub>: Level @ 10m distance. Unit: uV/m;

D<sub>3</sub>: 3m distance. Unit: m D<sub>10</sub>: 10m distance. Unit: m

The level at 3m test distance is below:

3M VERTICAL													
Frequency	Level @ 10m	Level @	Level @	Limit @ 3m	Limit @ 3m	Over Limit	Remark						
MHz	dBuV/m	10m (uV/m)	3m (uV/m)	dBuV/m	dBuV/m	dB							
31.071	18.24	8.17	27.22	28.70	40.00	-11.30	QP						
40.702	21.25	11.55	38.49	31.71	40.00	-8.29	QP						
54.452	17.08	7.14	23.82	27.54	40.00	-12.46	QP						
130.379	18.14	8.07	26.91	28.60	43.50	-14.90	QP						
397.633	21.50	11.89	39.62	31.96	46.00	-14.04	QP						
893.857	24.83	17.44	58.13	35.29	46.00	-10.71	QP						



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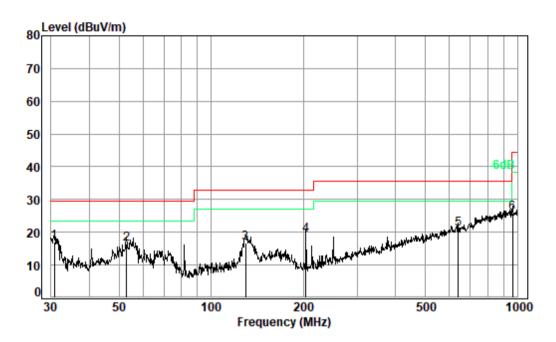


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Test Mode: 20; Polarity: Vertical



Condition: 10m VERTICAL Job No. : 04600AT/04601AT

Test Mode: 20 : EUT2

		Read	Ant	Cable	Preamp		Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
_	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 pp	30.745	33.54	15.62	0.42	32.50	17.08	29.50	-12.42	QP
2	52.945	30.20	18.18	0.55	32.49	16.44	29.50	-13.06	QP
3	129.468	32.24	16.21	0.87	32.50	16.82	33.00	-16.18	QP
4	203.523	36.41	14.02	1.16	32.50	19.09	33.00	-13.91	QP
5	640.611	26.87	24.57	2.18	32.72	20.90	35.60	-14.70	QP
6	965.542	26.67	27.90	2.69	31.34	25.92	44.40	-18.48	OP



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The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

 $L_3 / L_{10} = D_{10} / D_3$ 

Note:

L<sub>3</sub>: Level @ 3m distance. Unit: uV/m; L<sub>10</sub>: Level @ 10m distance. Unit: uV/m;

D<sub>3</sub>: 3m distance. Unit: m D<sub>10</sub>: 10m distance. Unit: m

The level at 3m test distance is below:

3M VERTICAL												
Frequency	Level @ 10m	Level @	Level @	Limit @ 3m	Limit @ 3m	Over Limit	Remark					
MHz	dBuV/m	10m (uV/m)	3m (uV/m)	dBuV/m	dBuV/m	dB						
30.745	17.08	7.14	23.82	27.54	40.00	-12.46	QP					
52.945	16.44	6.64	22.12	26.90	40.00	-13.10	QP					
129.468	16.82	6.93	23.11	27.28	43.50	-16.22	QP					
203.523	19.09	9.01	30.02	29.55	43.50	-13.95	QP					
640.611	20.90	11.09	36.97	31.36	46.00	-14.64	QP					
965.542	25.92	19.77	65.90	36.38	54.00	-17.62	QP					



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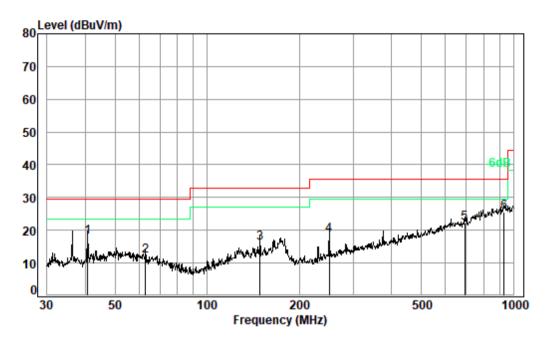


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Test Mode: 20; Polarity: Horizontal



Condition: 10m HORIZONTAL Job No. : 04600AT/04601AT

Test Mode: 20 : EUT2

		Read	Ant	Cable	Preamp		Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
-	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	40.702	33.03	16.81	0.48	32.50	17.82	29.50	-11.68	QP
2	62.871	27.02	17.00	0.59	32.46	12.15	29.50	-17.35	QP
3	148.963	29.96	17.71	0.95	32.50	16.12	33.00	-16.88	QP
4	250.301	33.86	15.91	1.30	32.45	18.62	35.60	-16.98	QP
5	694.417	27.42	25.03	2.25	32.61	22.09	35.60	-13.51	QP
6 pp	932.272	26.58	27.94	2.66	31.57	25.61	35.60	-9.99	OP



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The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

 $L_3 / L_{10} = D_{10} / D_3$ 

Note:

L<sub>3</sub>: Level @ 3m distance. Unit: uV/m; L<sub>10</sub>: Level @ 10m distance. Unit: uV/m;

D<sub>3</sub>: 3m distance. Unit: m D<sub>10</sub>: 10m distance. Unit: m

The level at 3m test distance is below:

3M HORIZONTAL												
Frequency	Level @ 10m	Level @	Level @	Limit @ 3m	Limit @ 3m	Over Limit	Remark					
MHz	dBuV/m	10m (uV/m)	3m (uV/m)	dBuV/m	dBuV/m	dB						
40.702	17.82	7.78	25.93	28.28	40.00	-11.72	QP					
62.871	12.15	4.05	13.50	22.61	40.00	-17.39	QP					
148.963	16.12	6.40	21.32	26.58	43.50	-16.92	QP					
250.301	18.62	8.53	28.44	29.08	46.00	-16.92	QP					
694.417	22.09	12.72	42.40	32.55	46.00	-13.45	QP					
932.272	25.61	19.08	63.59	36.07	46.00	-9.93	QP					



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#### **Test Setup Photo** 8

Please refer to SZCR2412004600Appendix\_NFC Setup Photo

#### 9 **EUT Constructional Details (EUT Photos)**

Please refer to SZCR2412004600 Appendix\_External Photo and Internal Photo.

- End of the Report -



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