

Report No.: SZEM210100102304

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# TEST REPORT

Application No.: SZEM2101001023CR

Applicant: Dspread Technology (Beijing) Inc

Address of Applicant: Rm.407, B12C, #10(Universal Business Park), Jiuxianqiao Road, Chaoyang

District, Beijing, 100027 China

Manufacturer: Dspread Technology (Beijing) Inc

Address of Manufacturer: Rm.407, B12C, #10(Universal Business Park), Jiuxiangiao Road, Chaoyang

District, Beijing, 100027 China

Factory: SHENZHEN WINSTAR PRECISION ELECTRONICS CO., LTD.

Address of Factory: The East Side of the Floor 6, Floor 5, Building 28, Shancheng Industrial

Park, Shixin Community, Langxin Community Shiyan Street, Bao'an District,

Shenzhen City, Guangdong Province, P.R.China

**Equipment Under Test (EUT):** 

EUT Name: Mobile POS
Model No.: CR100
Trade Mark: DSPREAD

FCC ID: 2AGQ6-CR100-D

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

**Date of Receipt:** 2021-01-25

**Date of Test:** 2021-01-26 to 2021-02-26

**Date of Issue:** 2021-03-02

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 Remark						
01		2021-03-02		Original			

Authorized for issue by:		
	Cahin Weng	
	Calvin Weng/Project Engineer	
	EvicFu	
	Eric Fu/Reviewer	



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



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### **General Information**

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

Power supply:	DC3.7V by li-ion battery
	Recharge by DC5V/500mA from power adapter
Cable(s):	USB cable: 13cm unshielded cable without ferrite core
Operation Frequency:	13.56MHz
Modulation Type:	ASK
Antenna Type:	Loop antenna

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	Apple	A1443	REF. No.SEA05D11D

#### 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Radiated Emissions (9kHz-30MHz)	± 4.5dB (Below 1GHz)
Radiated Emissions (30MHz-1GHz)	± 4.5dB (Below 1GHz)
Frequency tolerance	± 3%
Emission Mask	± 4.5dB (Below 1GHz)
Conducted Emissions at Mains Terminals (150kHz-30MHz)	± 3.0dB
20dB Bandwidth	± 3%

#### Remark:

The Ulab (lab Uncertainty) is less than Ucispr (CISPR 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, 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

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. 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: CN1178

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

Designation Number: CN1178. Test Firm Registration Number: 406779.

#### • 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

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

None



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# 5 Equipment List

Radiated Emissions (9kHz-30MHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018-03-31	2021-03-30	
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2020-11-02	2021-11-01	
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2020-04-09	2021-04-08	
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2020-08-14	2023-08-13	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM029-01	2020-07-10	2021-07-09	

Radiated Emissions (30MHz-1GHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18	
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2020-11-02	2021-11-01	
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23	
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2020-04-01	2021-03-31	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09	

Frequency tolerance					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-17	2020-05-21	2021-05-20
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2020-05-21	2021-05-20
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2020-03-25	2021-03-24



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Emission Mask					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018-03-31	2021-03-30
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2020-11-02	2021-11-01
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2020-04-09	2021-04-08
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2020-08-14	2023-08-13
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2020-07-10	2021-07-09

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	2019-06-13	2022-06-12				
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2020-03-24	2021-03-23				
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM024-01	2020-07-10	2021-07-09				
LISN	Rohde&Schwarz	ENV216 SEM007-01 2		2020-09-23	2021-09-22				
LISN	ETS-LINDGREN	3816/2	SEM007-02	2020-04-01	2021-03-31				

20dB Bandwidth									
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date				
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12				
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23				
MXA Signal Analyzer	KEYSIGHT	N9020A SEM004-17		2020-05-21	2021-05-20				
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	N/A SEM031-01		2021-07-09				
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2020-05-21	2021-05-20				



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General used equipment										
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date					
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-15	2021-09-14					
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2020-09-15	2021-09-14					
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2020-04-07	2021-04-06					



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# **Radio Spectrum Technical Requirement**

#### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

#### 6.1.2 Conclusion

#### Standard 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 antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an 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 integrated on the main PCB and no consideration of replacement.

Antenna location: Refer to Internal photos.





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

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

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

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

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

#### **Below 30MHz**

If field strength is measured at only a single point, then that point shall be at the radial from the EUT that produces the maximum emission at the frequency being measured, as described in 5.4. If that point is closer to the EUT than  $\lambda/2\pi$  and the limit distance is greater than  $\lambda/2\pi$ , the measurement shall be extrapolated to the limit distance by conservatively presuming that the field strength decreases at a 40 dB/decade of distance rate to the  $\lambda/2\pi$  distance, and at a 20 dB/decade of distance rate beyond  $\lambda/2\pi$ . This shall be accomplished using Equation (2):

$$FS_{(10m)} = FS_{(30/300m)} + 40log\{d_{(near field)}/d_{(10m)}\} + 20log\{d_{(30/300m)}/d_{(near field)}\}$$
(2)

If the single point measured is at a distance greater than  $\lambda/2\pi$ , then extrapolation to the limit distance shall be calculated using Equation (3):

$$FS_{(10m)} = FS_{(30/300m)} + 20log\{d_{(30/300m)}/d_{(10m)}\}$$
(3)

If both the single point and the limit distance are equal to or closer to the EUT than  $\lambda/2\pi$ , then extrapolation to the limit distance shall be calculated using Equation (4):

$$FS_{(10m)} = FS_{(30/300m)} + 40log\{d_{(30/300m)}/d_{(10m)}\}$$
(4)

Remark:

 $d_{near field} = 47.77 / f_{MHz}$ 

where f<sub>MHz</sub> is the frequency of the emission being measured in MHz.



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#### 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

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

where

 $FS_{limit}$  is the calculation of field strength at the limit distance, expressed in dB $\mu$ V/m

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

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

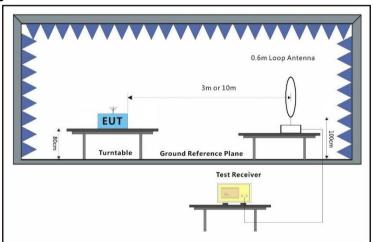
Operating Environment:

Temperature: 23.5 °C Humidity: 45 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode_Keep the EUT in continuously transmitting mode with modulation.

#### 7.1.3 Test Setup Diagram





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#### 7.1.4 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.

Freq (MHz)	Antenna _Factor (dB/m)	Preamp _Gain (dB)	Read _Level (dBuV)	Cable _Loss (dB)	Level (dBuV/m)	Limit _Line (dBuV/m)	Over _Limit (dB)	Remark
0.01763	14.97	31.83	74.93	0.01	58.08	122.66	-64.58	Average
0.03147	12.53	32.2	72.6	0.01	52.94	117.63	-64.69	Average
0.06978	11.26	32.5	68.95	0.01	47.72	110.72	-63	Average
0.18738	10.96	32.5	77.4	0.11	55.97	102.14	-46.17	Average
0.56709	10.84	32.5	67.33	0.54	46.21	72.52	-26.31	QP
0.78345	10.83	32.5	63.58	0.63	42.54	69.7	-27.16	QP

#### 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





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

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

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

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.

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

Operating Environment:

Temperature: 25.5 °C Humidity: 51.4 % RH Atmospheric Pressure: 1010 mbar

#### 7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode_Keep the EUT in continuously transmitting mode with modulation.



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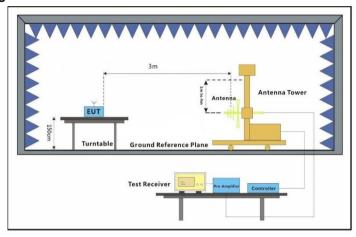
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#### 7.2.3 Test Setup Diagram



#### 7.2.4 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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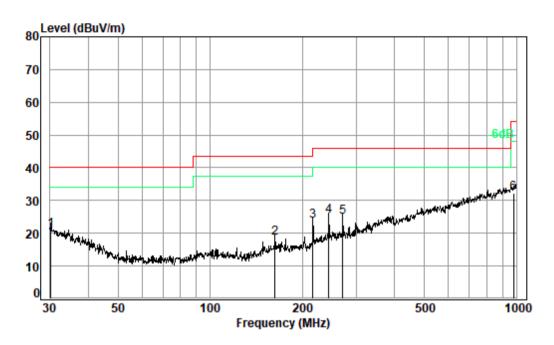


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Test Mode: 07; Polarity: Horizontal



Condition: 3m HORIZONTAL

Job No. : 01023CR

Test Mode: 07

	Freq			Preamp Factor					Remark
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	30.21	0.60	22.84	27.73	25.37	21.08	40.00	-18.92	QP
2	162.61	1.17	15.45	27.28	29.21	18.55	43.50	-24.95	QP
3	216.78	1.36	16.32	27.09	33.08	23.67	46.00	-22.33	QP
4	244.23	1.59	17.97	27.01	32.66	25.21	46.00	-20.79	QP
5	271.32	1.80	18.57	26.94	31.44	24.87	46.00	-21.13	QP
6	979.18	3.58	29.50	26.76	25.96	32.28	54.00	-21.72	QP



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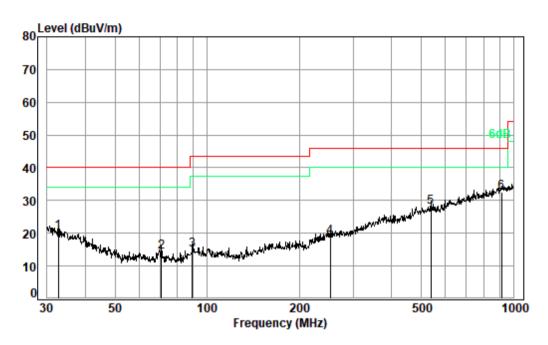
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Test Mode: 07; Polarity: Vertical



Condition: 3m VERTICAL Job No. : 01023CR

Test Mode: 07

iest.	rioue. 07								
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	32.63	0.63	21.31	27.73	26.07	20.28	40.00	-19.72	QP
2	70.83	0.84	12.62	27.65	28.61	14.42	40.00	-25.58	QP
3	89.59	1.30	13.06	27.62	28.05	14.79	43.50	-28.71	QP
4	252.06	1.66	18.18	26.99	26.07	18.92	46.00	-27.08	QP
5	537.59	2.58	24.93	27.93	28.28	27.86	46.00	-18.14	QP
6 pr	916.07	3.52	29.14	27.08	26.85	32.43	46.00	-13.57	OP



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#### 7.3 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

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

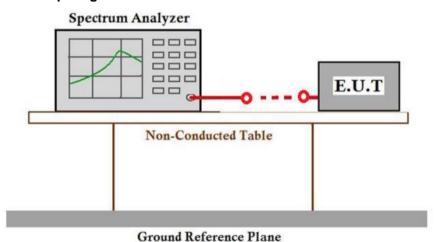
Operating Environment:

Temperature: 21.1 °C Humidity: 45.5 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description	
Final test	07	TX mode_Keep the EUT in continuously transmitting mode with modulation.	

#### 7.3.3 Test Setup Diagram



#### 7.3.4 Measurement Procedure and Data



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Declared Frequency (MHz)	13.56MHz
--------------------------	----------

Temperature (°C)	Voltage(VDC)	Measurement Frequency Frequency(MHz) Tolerance (%)		Limit (%)	Result
50		13.559822	-0.0013		Pass
40		13.559796	-0.0015		Pass
30		13.559741	-0.0019		Pass
20	2.70	13.559717	-0.0021		Pass
10	3.70	13.559735	-0.0020	.0.01	Pass
0		13.559768	-0.0017	±0.01	Pass
-10		13.559831	-0.0012		Pass
-20		13.559833	-0.0012		Pass
20	4.26	13.559725	-0.0020		Pass
20	3.15	13.559795	-0.0015		Pass



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#### 7.4 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 factor calculated by the following equation:

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

where

FS<sub>limit</sub> is the calculation of field strength at the limit distance, expressed in dBμV/m

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

The limit at 3m test distance is below:

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

The limit at 10m test distance is below:

The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 103.08 dBuV/m at 10 meters.

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

Operating Environment:

Temperature: 23.2 °C Humidity: 45 % RH Atmospheric Pressure: 1010 mbar



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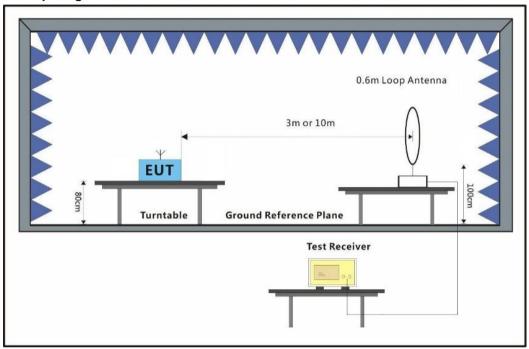
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#### 7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode_Keep the EUT in continuously transmitting mode with modulation.

#### 7.4.3 Test Setup Diagram



#### 7.4.4 Measurement Procedure and Data

Freq (MHz)	Antenna _Factor (dB/m)	Preamp _Gain (dB)	Read _Level (dBuV)	Cable _Loss (dB)	Level (dBuV/m)	Limit _Line (dBuV/m)	Over _Limit (dB)	Remark
13.56	8.88	32. 5	87.74	0.62	64.74	124	-59.26	QP



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

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

#### Limit:

Francisco ( rongo (MIII-)	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.

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

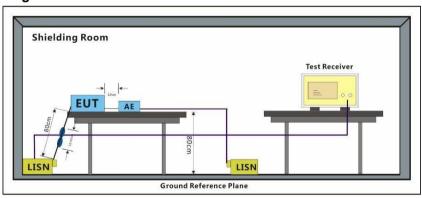
**Operating Environment:** 

Temperature: 24.5 °C Humidity: 60.1 % RH Atmospheric Pressure: 1010 mbar

#### 7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode_Keep the EUT in continuously transmitting mode with modulation.

#### 7.5.3 Test Setup Diagram





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#### 7.5.4 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: LISN=Read Level+ Cable Loss+ LISN Factor



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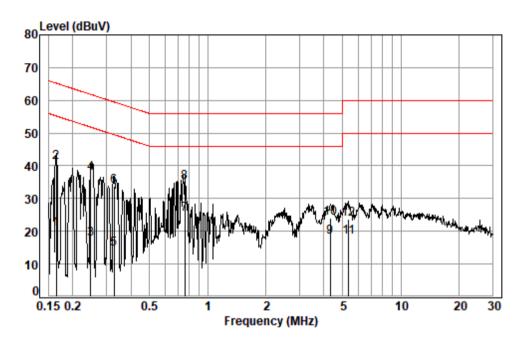
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Test Mode: 07; Line: Live line



: Shielding Room

Condition: Line Job No. : 01023CR

Test mode: 07

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1650	0.03	9.71	11.04	20.78	55.21	-34.43	Average
2	0.1650	0.03	9.71	31.26	41.00	65.21	-24.21	QP
3	0.2481	0.05	9.74	7.90	17.69	51.82	-34.13	Average
4	0.2481	0.05	9.74	27.86	37.65	61.82	-24.17	QP
5	0.3286	0.06	9.75	4.74	14.55	49.49	-34.94	Average
6	0.3286	0.06	9.75	23.93	33.74	59.49	-25.75	QP
7	0.7630	0.09	9.78	15.53	25.40	46.00	-20.60	Average
8	0.7630	0.09	9.78	25.09	34.96	56.00	-21.04	QP
9	4.3146	0.15	9.90	8.12	18.17	46.00	-27.83	Average
10	4.3146	0.15	9.90	13.93	23.98	56.00	-32.02	QP
11	5.3615	0.16	9.95	8.22	18.33	50.00	-31.67	Average
12	5.3615	0.16	9.95	13.76	23.87	60.00	-36.13	QP



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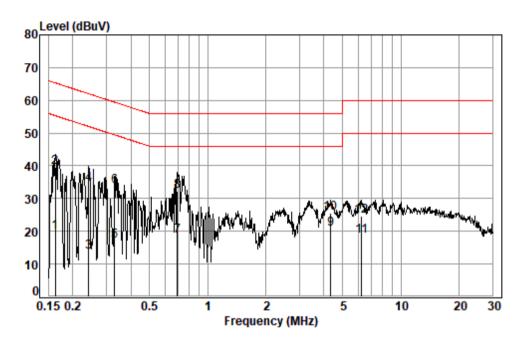
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Test Mode: 07; Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 01023CR

Test mode: 07

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1624	0.03	9.71	10.01	19.75	55.34	-35.59	Average
2	0.1624	0.03	9.71	29.79	39.53	65.34	-25.81	QP
3	0.2416	0.04	9.73	3.84	13.61	52.04	-38.43	Average
4	0.2416	0.04	9.73	24.63	34.40	62.04	-27.64	QP
5	0.3303	0.06	9.75	7.21	17.02	49.44	-32.42	Average
6	0.3303	0.06	9.75	24.00	33.81	59.44	-25.63	QP
7	0.6973	0.09	9.77	8.80	18.66	46.00	-27.34	Average
8	0.6973	0.09	9.77	22.27	32.13	56.00	-23.87	QP
9	4.3376	0.15	9.90	10.59	20.64	46.00	-25.36	Average
10	4.3376	0.15	9.90	15.37	25.42	56.00	-30.58	QP
11	6.2520	0.16	10.00	8.41	18.57	50.00	-31.43	Average
12	6.2520	0.16	10.00	14.56	24.72	60.00	-35.28	QP



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#### 7.6 20dB Bandwidth

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

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

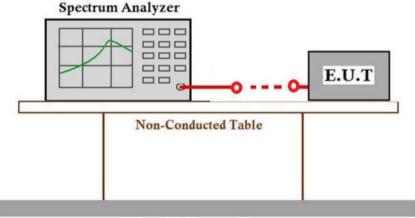
Operating Environment:

Temperature: 21.1 °C Humidity: 45.5 % RH Atmospheric Pressure: 1010 mbar

#### 7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode_Keep the EUT in continuously transmitting mode with modulation.

#### 7.6.3 Test Setup Diagram



Ground Reference Plane

#### 7.6.4 Measurement Procedure and Data

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



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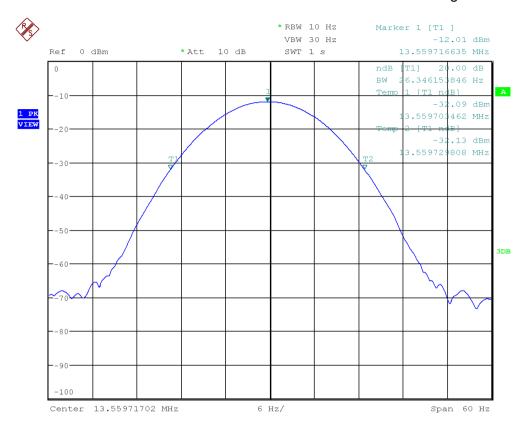
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#### 8 **Test Setup Photo**

Please refer to setup photos.

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

Please Refer to external and internal photos for details.

- End of the Report -



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