

TEST REPORT

Application No.: SZCR2512005289AT
Applicant: ZK Technology LLC DBA ZK Teco
Address of Applicant: 200 Centennial Ave, Suite 211, Piscataway, New Jersey, 08854 United States
Manufacturer: ZK Technology LLC dba. ZKTeco WFM
Address of Manufacturer: 4515 George Road, Suite 370, Tampa Florida 33634 U.S.A
Equipment Under Test (EUT):
EUT Name: DATA COLLECTION TERMINAL
Model No.: Please refer to section 2 ♣
 ♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
FCC ID: 2AUC7-ULT7G3
Standard(s) : 47 CFR Part 15, Subpart C
Date of Receipt: 2025-12-01
Date of Test: 2025-12-05 to 2026-01-19
Date of Issue: 2026-01-21

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu

Keny Xu
EMC Laboratory Manager



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

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SZEMC-TRF-01 Rev. A/2

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-01-21		Original

Authorized for issue by:				
		Edison Li		
		Edison Li/Project Engineer		
		Eric 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	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)	47 CFR Part 15, Subpart C	ANSI C63.10 (2020) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
20dB Bandwidth		ANSI C63.10 (2020) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass
Emission Mask		ANSI C63.10 (2020) Section 6.4	47 CFR Part 15, Subpart C 15.225(a)&(b)&(C)	Pass
Frequency tolerance		ANSI C63.10 (2020) Section 6.8	47 CFR Part 15, Subpart C 15.225(e)	Pass
Radiated Emissions (9kHz-30MHz)		ANSI C63.10 (2020) Section 6.4	47 CFR Part 15, Subpart C 15.225(d) & 15.209	Pass
Radiated Emissions (30MHz-1GHz)		ANSI C63.10 (2020) Section 6.5	47 CFR Part 15, Subpart C 15.225(d) & 15.209	Pass



Declaration of EUT Family Grouping:

Model No.: ULTIMA 7 G3, ULTIMA 7-inch, ULTIMA-200-G3, ULTIMA-G3, ULTIMA 7-G3 BASE, FLEXTOUCH 4.0, WTPURULT200-G3, Intellipunch 7, ULTIMA 7, ULTIMA 7 G3-CARD ONLY, ULTIMA 7 G3-BAR, ULTIMA 7 G3-MAG, ULTIMA 7 G3-FP, ULTIMA 7 G3-ZFP, ULTIMA 7 G3-F33L, ULTIMA 7 G3-IRF, ULTIMA 7 G3-RFID, ULTIMA 7 G3-M3, ULTIMA 7 G3-M3I, ULTIMA 7 G3-M3PI, ULTIMA 7 G3-MT30, ULTIMA 7 G3-MT10, ULTIMA 7 G3-MT12, ULTIMA 7 G3-MT15, ULTIMA 7 G3-ID, ULTIMA 7 G3-U356, ULTIMA 7 G3-U356i, ULTIMA 7 G3-U356LG,

ULTIMA 7 G3-FACE, ULTIMA 7 G3-FT, ULTIMA 7 G3-T, ULTIMA-P, ULT7G3-MAG, ULT7G3-BAR, ULT7G3-ZFP, ULT7G3-FP, ULT7G3-FACE, ULT7G3-FT, ULT7G3-ZFP-MTPRO, ULT7G3-FACE-MTPRO, ULT7G3-FT-MTPRO, ULT7G3-PRO, ULTIMA-FACE-G3, ULT-FACE-G3, ULTIMA-FT-G3, ULT-FT-G3,

CRNOUS 7 G3, CRNOUS 7 G3 BASE, CRNOUS 7 G3 Face, CRNOUS 7 G3 Pro, CRNOUS 7G3 FAM33L, CRNOUS 7 G3 Face VL Pro, CRNOUS-200-G3, ORION-G3, ORION-200-G3, ORION G3-BAR, ORION G3-MAG, ORION G3-TC1, ORION G3-FP, ORION G3-ZFP, ORION G3-LUM, ORION G3-PRO, ORION G3-PLUS,

PLATO G3-BAR, PLATO G3-MAG, PLATO G3-FP, PLATO G3-ZFO, PLATO G3-LUM, PLATO -PRO, Ultima 7 G3 EU, Ultima 7 G3E, Ultima 7 G3N, Ultima 7 G3EM, Ultima 7 G3NA, Ultima 7 G3JP, Ultima 7 G3WF, DCT-ULTIMA-7-G3

Only the model ULTIMA 7 G3 was tested. According to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on model name and color.



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4 General Information

4.1 Details of E.U.T.

Power supply:	Powered by Lithium-ion Polymer Battery Model: CLP505060P 2000 Capacity: 7.4V, 2000mAh, 14.8Wh Charging by DC 12V from external power supply Model: ADS-40SI-12-3 12036E Input: AC 100-240V, 50/60Hz, Max 1.0A Output: DC 12V, 3.0A, 36W
Cable(s):	DC Cable from adapter 1.8m unshielded with one core AC Cable from adapter 1.8m unshielded
For NFC	
Operation Frequency:	13.56MHz
Modulation Type:	ASK
Antenna Type:	Loop Antenna
For 125KHz	
Operation Frequency:	125KHz
Modulation Type:	ASK
Antenna Type:	Loop Antenna

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.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
RF cable	SGS	N/A(Cable loss:0.4dB)	N/A

4.3 Measurement Uncertainty

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

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (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:

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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	2025-05-07	2028-05-06
EMI Test Receiver	Rohde&Schwarz	ESR	SZ-WRG-M-047	2025-12-15	2026-12-14
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2025-07-05	2026-07-04
LISN	Rohde&Schwarz	ENV216	SEM007-01	2025-07-25	2026-07-24
LISN	ETS-LINDGREN	3816/2	SEM007-02	2025-03-03	2026-03-02

20dB Bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Zhao Xin	PS-305D	SEM011-13	2025-07-24	2026-07-23
Spectrum Analyzer	Rohde & Schwarz	FSP30	SEM004-06	2025-09-10	2026-09-09
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2025-07-05	2026-07-04
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2025-03-03	2026-03-02

Emission Mask					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2025-03-21	2026-03-20
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2025-07-25	2026-07-24
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2025-09-21	2027-09-20
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2025-03-04	2026-03-03
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2025-11-18	2027-11-17
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2025-07-05	2026-07-04



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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	2025-07-24	2026-07-23
Spectrum Analyzer	Rohde & Schwarz	FSP30	SEM004-06	2025-09-10	2026-09-09
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2025-07-05	2026-07-04
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2025-03-03	2026-03-02
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2025-02-26	2026-02-25

Radiated Emissions (9kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2025-03-21	2026-03-20
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2025-07-25	2026-07-24
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2023-09-23	2025-09-22
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2025-03-04	2026-03-03
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	2025-07-05	2026-07-04

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	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2025-07-25	2026-07-24
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2025-08-29	2027-08-28
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2025-03-04	2026-03-03
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2025-07-05	2026-07-04



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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	2025-07-23	2026-07-22
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2025-07-23	2026-07-22
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2025-03-03	2026-03-02



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6 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

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 integrated on the main PCB and no consideration of replacement.

Antenna location: Refer to Internal photos



7 Radio Spectrum Matter Test Results

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

Test Requirement 47 CFR Part 15, Subpart C 15.207

Test Method: ANSI C63.10 (2020) Section 6.2

Test Engineer: Wade Li

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.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.3 °C

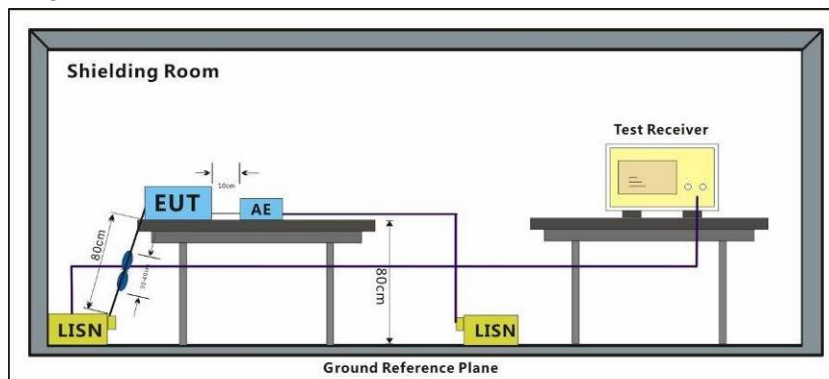
Humidity: 48.6 % RH

Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	12	Charge + TX mode(125kHz)_Keep the EUT in charging and transmitting mode.
Pre-scan	14	Charge + TX mode(13.56MHz)_Keep the EUT in charging and transmitting mode.

7.1.3 Test Setup Diagram



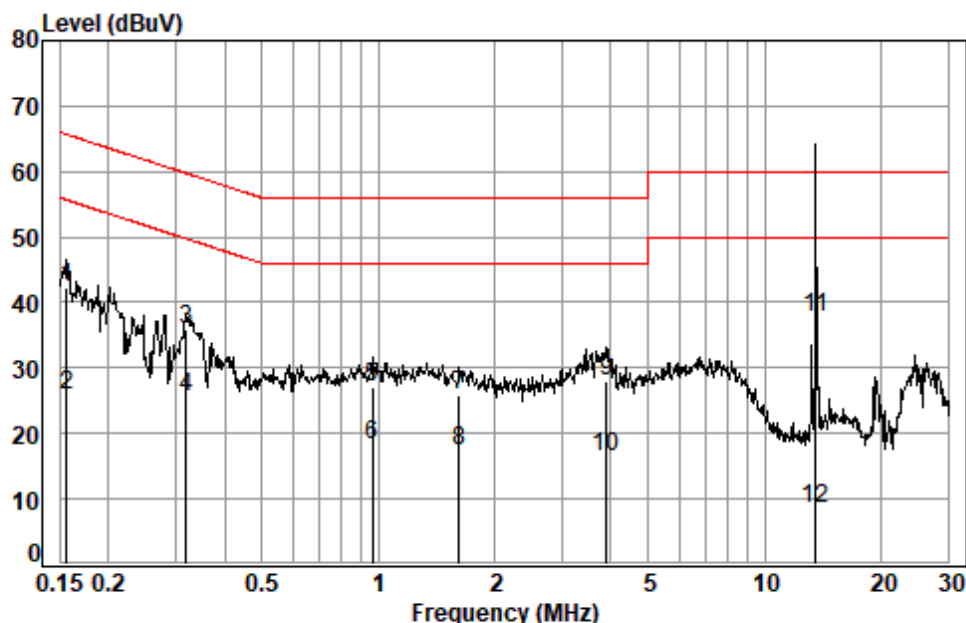
7.1.4 Measurement Procedure and Data

- 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



Test Mode: 12; Line: Live line



Site : Shielding Room

Condition: Line

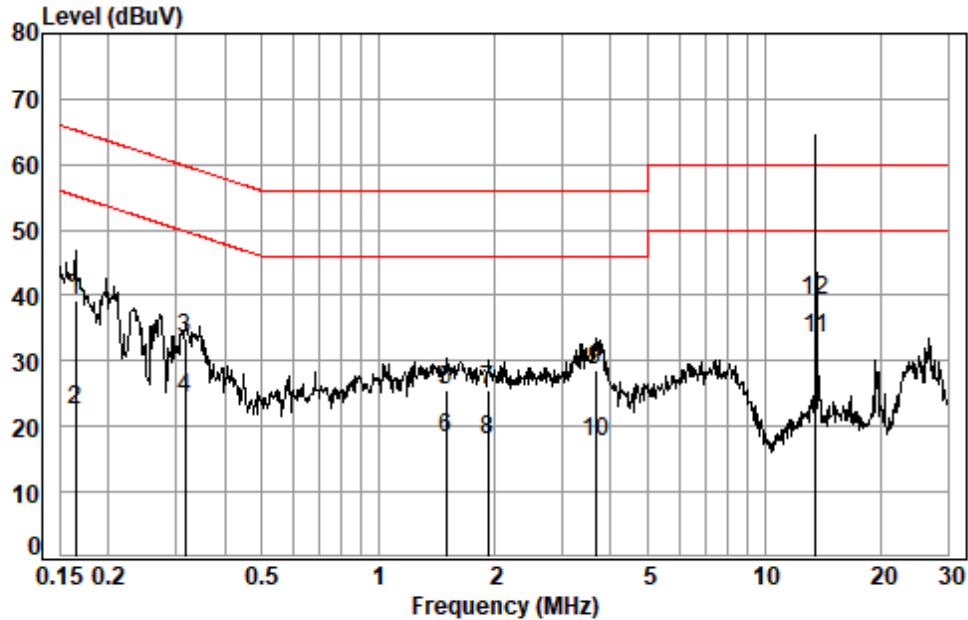
Job No. : 05289AT

Test mode: 12

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1557	0.06	10.19	32.00	42.25	65.69	-23.44	QP
2	0.1557	0.06	10.19	15.75	26.00	55.69	-29.69	Average
3	0.3183	0.08	9.81	25.92	35.81	59.75	-23.94	QP
4 *	0.3183	0.08	9.81	15.57	25.46	49.75	-24.29	Average
5	0.9633	0.11	9.59	17.33	27.03	56.00	-28.97	QP
6	0.9633	0.11	9.59	8.61	18.31	46.00	-27.69	Average
7	1.6190	0.12	9.58	16.19	25.89	56.00	-30.11	QP
8	1.6190	0.12	9.58	7.78	17.48	46.00	-28.52	Average
9	3.9014	0.14	9.66	18.09	27.89	56.00	-28.11	QP
10	3.9014	0.14	9.66	6.66	16.46	46.00	-29.54	Average
11 *	13.5509	0.16	9.86	27.66	37.68	60.00	-22.32	QP
12	13.5509	0.16	9.86	-1.56	8.46	50.00	-41.54	Average



Test Mode: 12; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 05289AT
Test mode: 12

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1641	0.06	10.13	29.12	39.31	65.25	-25.94	QP
2	0.1641	0.06	10.13	12.40	22.59	55.25	-32.66	Average
3	0.3166	0.08	9.76	23.71	33.55	59.80	-26.25	QP
4	0.3166	0.08	9.76	14.40	24.24	49.80	-25.56	Average
5	1.4953	0.12	9.55	15.86	25.53	56.00	-30.47	QP
6	1.4953	0.12	9.55	8.67	18.34	46.00	-27.66	Average
7	1.9284	0.12	9.55	15.82	25.49	56.00	-30.51	QP
8	1.9284	0.12	9.55	8.32	17.99	46.00	-28.01	Average
9	3.6611	0.13	9.55	18.76	28.44	56.00	-27.56	QP
10	3.6611	0.13	9.55	8.09	17.77	46.00	-28.23	Average
11	13.5509	0.16	9.78	23.62	33.56	60.00	-26.44	QP
12 *	13.5509	0.16	9.78	29.16	39.10	50.00	-10.90	Average



7.2 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215
 Test Method: ANSI C63.10 (2020) Section 6.9
 Test Engineer: Mingli Hu

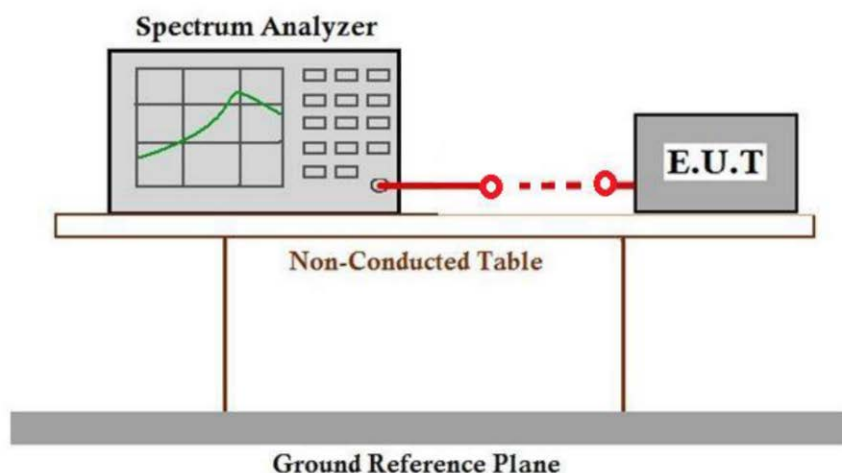
7.2.1 E.U.T. Operation

Operating Environment:
 Temperature: 24.2 °C Humidity: 61.6 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	11	TX mode(125kHz)_Keep the EUT in transmitting mode.
Final test	12	Charge + TX mode(125kHz)_Keep the EUT in charging and transmitting mode.
Pre-scan	13	TX mode(13.56MHz)_Keep the EUT in transmitting mode.
Final test	14	Charge + TX mode(13.56MHz)_Keep the EUT in charging and transmitting mode.

7.2.3 Test Setup Diagram

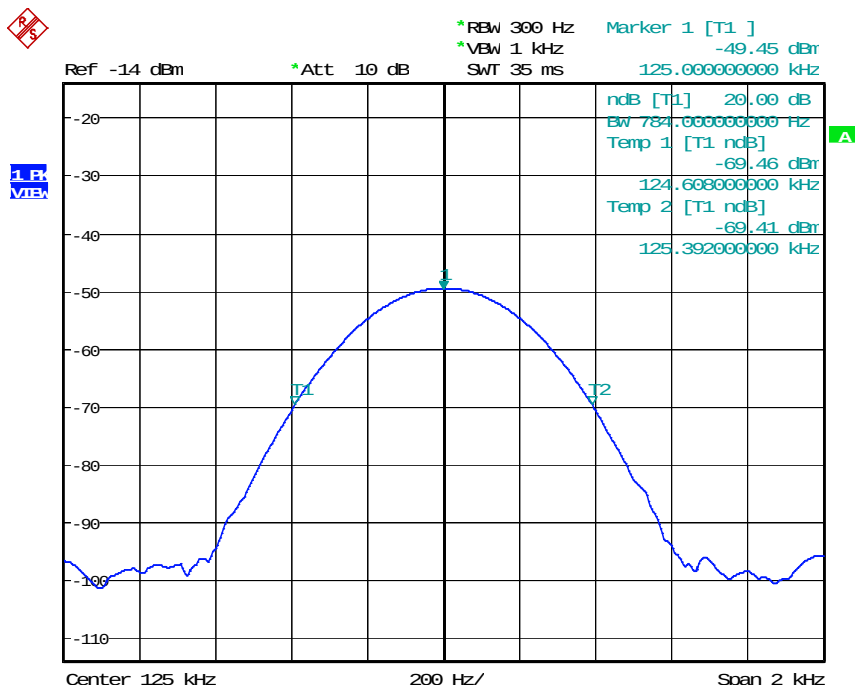


7.2.4 Measurement Procedure and Data

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



f_L (KHz)	f_H (KHz)	f_c (KHz)	Limit(KHz)	Result
124.608	125.392	125.000	N/A	PASS



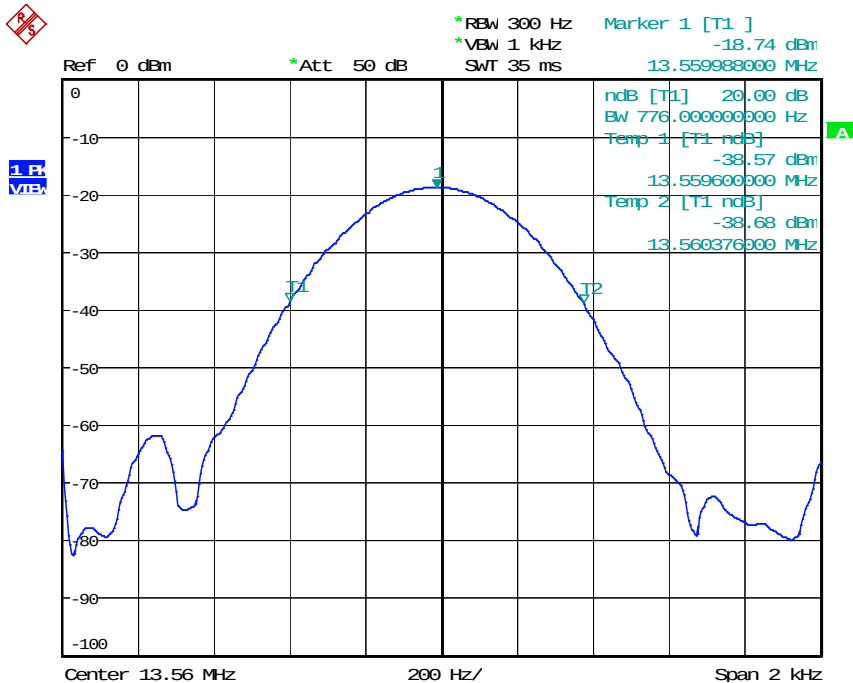
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f_L (MHz)	f_H (MHz)	f_c (MHz)	Limit(MHz)	Result
13.559600	13.560376	13.56	N/A	PASS



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7.3 Restricted Bands

Test Requirement 47 CFR Part 15, Subpart C 15.205

Test Method: ANSI C63.10 (2013) Section 6.10.5

Limit:

The fundamental wave could not fall in the restricted band 90KHz-110KHz

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 24.2 °C

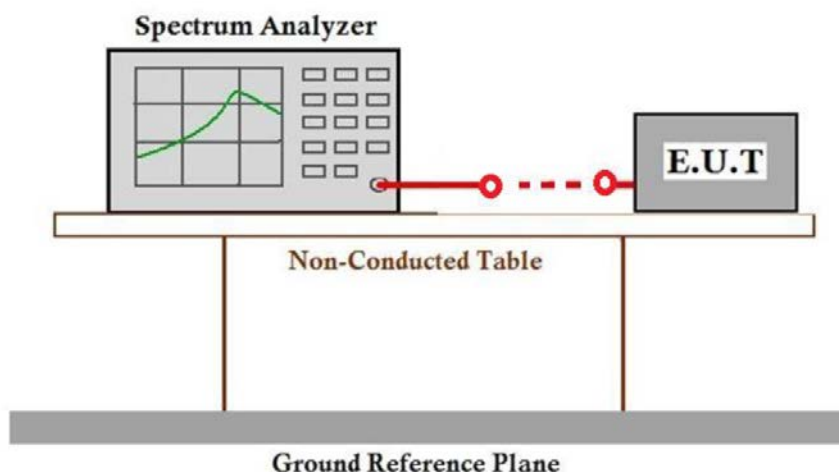
Humidity: 61.6 % RH

Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	11	TX mode(125kHz)_Keep the EUT in transmitting mode.
Final test	12	Charge + TX mode(125kHz)_Keep the EUT in charging and transmitting mode.

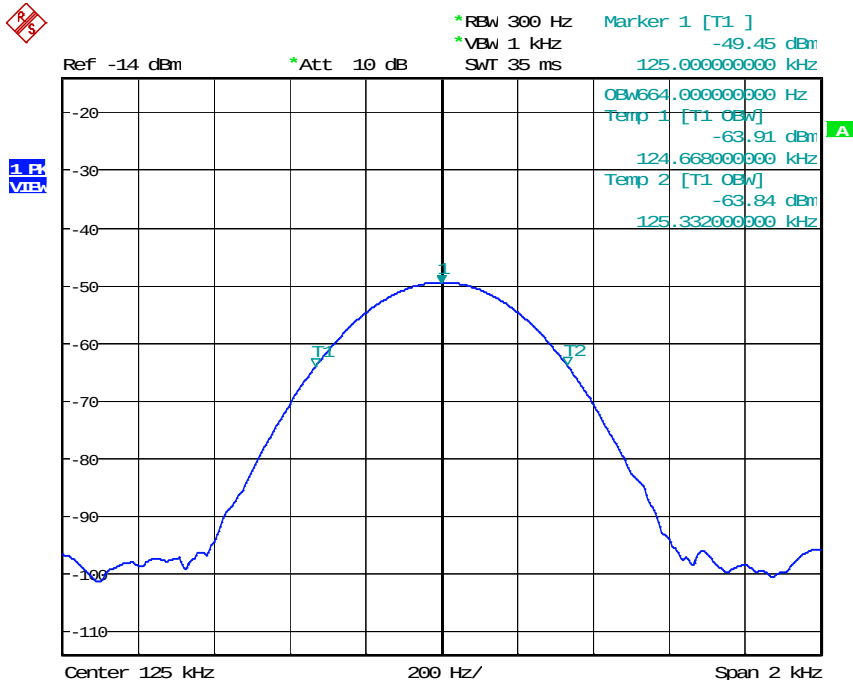
7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data



f_L (MHz)	f_H (MHz)	f_c (MHz)	Limit (dBm)	Result
0.124668	0.125332	0.125000	N/A	PASS



7.4 Emission Mask

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

Test Method: ANSI C63.10 (2020) Section 6.4

Measurement Distance: 3m

Test Engineer: Ted Wu

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_{limit} is the calculation of field strength at the limit distance, expressed in dBμV/m

FS_{max} is the measured field strength, expressed in dBμV/m

d_{measure} is the distance of the measurement point from the EUT

d_{limit} is the reference distance or the distance of the $\lambda/2\pi$ point

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

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.3 °C

Humidity: 48.6 % RH

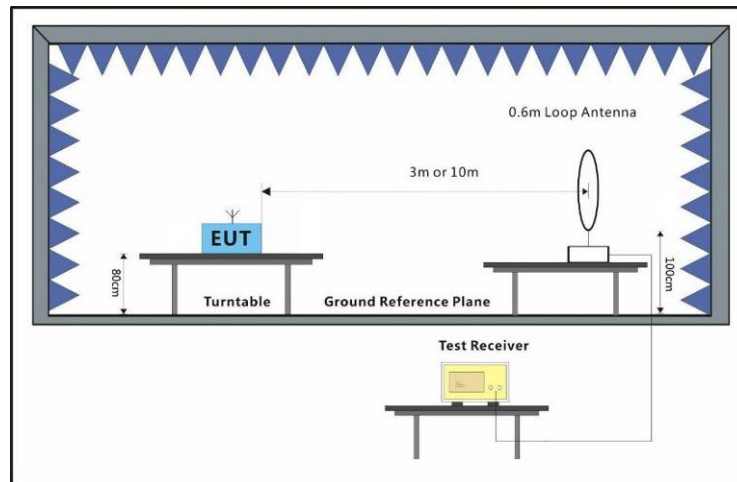
Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	13	TX mode(13.56MHz)_Keep the EUT in transmitting mode.
Final test	14	Charge + TX mode(13.56MHz)_Keep the EUT in charging and transmitting mode.



7.4.3 Test Setup Diagram

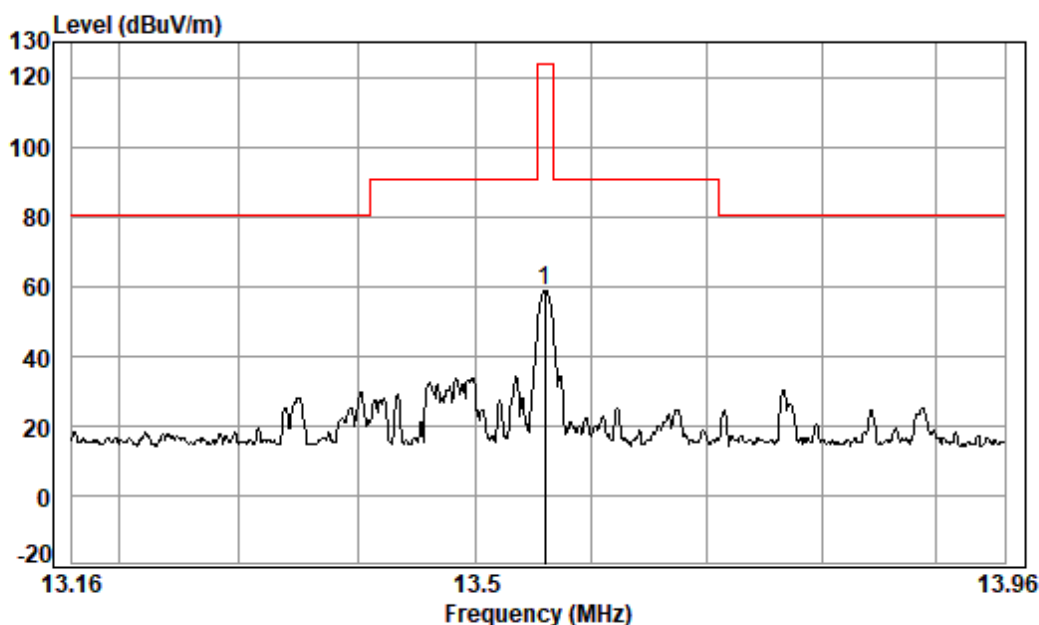


7.4.4 Measurement Procedure and Data

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.



Test Mode: 14; Modulation:802.11a; Channel:138



Condition: 3m

Job No. : 05289AT

Test Mode: 14

: coaxial

	Read	Ant	Cable	Preamp		Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 pp 13.560	81.84	8.55	1.00	32.46	58.93	124.00	-65.07	QP

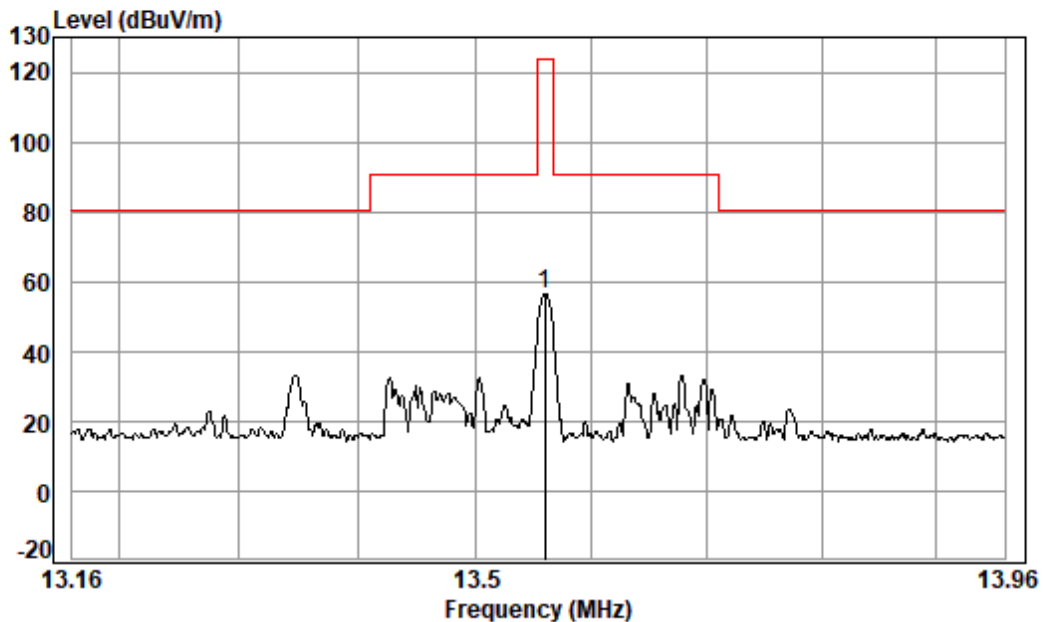
Frequency (MHz)	Level (dBuV/m) @3m	Convert Factor (dB)	Level (dBuV/m) @ 30m	Limit (dBuV/m) @30m	Over limit (dB)
13.56	58.93	40.00	18.93	84.00	-65.07



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Test Mode: 14; Modulation:802.11a; Channel:138



Condition: 3m

Job No. : 05289AT

Test Mode: 14

: coplanar

	Read	Ant	Cable	Preamp		Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 pp 13.560	79.28	8.55	1.00	32.46	56.37	124.00	-67.63	QP

Frequency (MHz)	Level (dBuV/m) @3m	Convert Factor (dB)	Level (dBuV/m) @ 30m	Limit (dBuV/m) @30m	Over limit (dB)
13.56	56.37	40.00	16.37	84.00	-67.63



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7.5 Frequency tolerance

Test Requirement 47 CFR Part 15, Subpart C 15.225(e)
 Test Method: ANSI C63.10 (2020) Section 6.8
 Test Engineer: Mingli Hu
 Limit: $\pm 0.01\%$

7.5.1 E.U.T. Operation

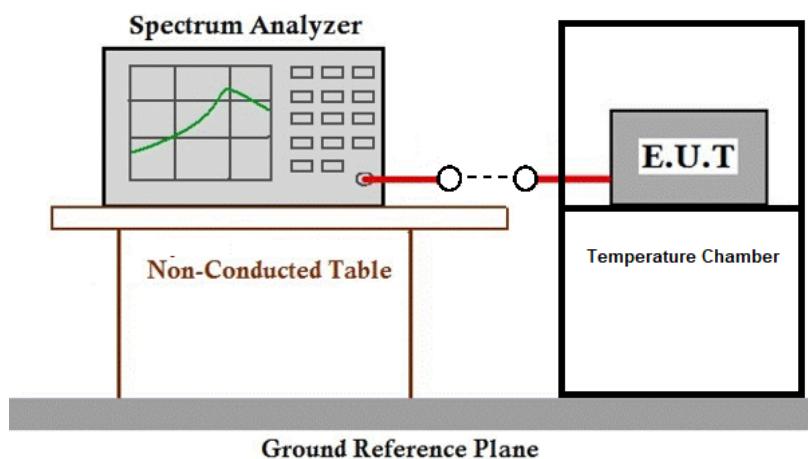
Operating Environment:

Temperature: 24.2 °C Humidity: 61.6 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	13	TX mode(13.56MHz)_Keep the EUT in transmitting mode.
Final test	14	Charge + TX mode(13.56MHz)_Keep the EUT in charging and transmitting mode.

7.5.3 Test Setup Diagram



7.5.4 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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7.5.5 Measurement Procedure and Data

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

Temperature (°C)	Voltage(Vdc)	Measurement Frequency(MHz)	Frequency Tolerance (%)	Limit (%)	Result
50	12	13.560018	0.00013	±0.01	Pass
40		13.560005	0.00004		Pass
30		13.560024	0.00018		Pass
20		13.560022	0.00016		Pass
10		13.560021	0.00015		Pass
0		13.560012	0.00009		Pass
-10		13.560016	0.00012		Pass
-20		13.560015	0.00011		Pass
20	10.2	13.560008	0.00006		Pass
	13.8	13.560016	0.00012		Pass



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7.6 Radiated Emissions (9kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.225(d) & 15.209
 Test Method: ANSI C63.10 (2020) Section 6.4
 Measurement Distance: 3m
 Test Engineer: Ted Wu
 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

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. 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.

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):

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

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):

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

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):

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

Remark:

$d_{near\ field} = 47.77 / f_{MHz}$
 where f_{MHz} is the frequency of the emission being measured in MHz.

7.6.1 E.U.T. Operation

Operating Environment:

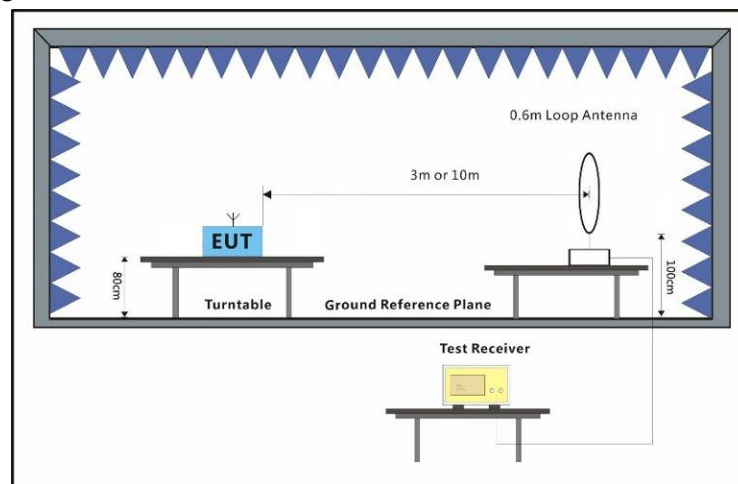
Temperature: 23.3 °C Humidity: 48.6 % RH Atmospheric Pressure: 1020 mbar



7.6.2 Test Mode Description

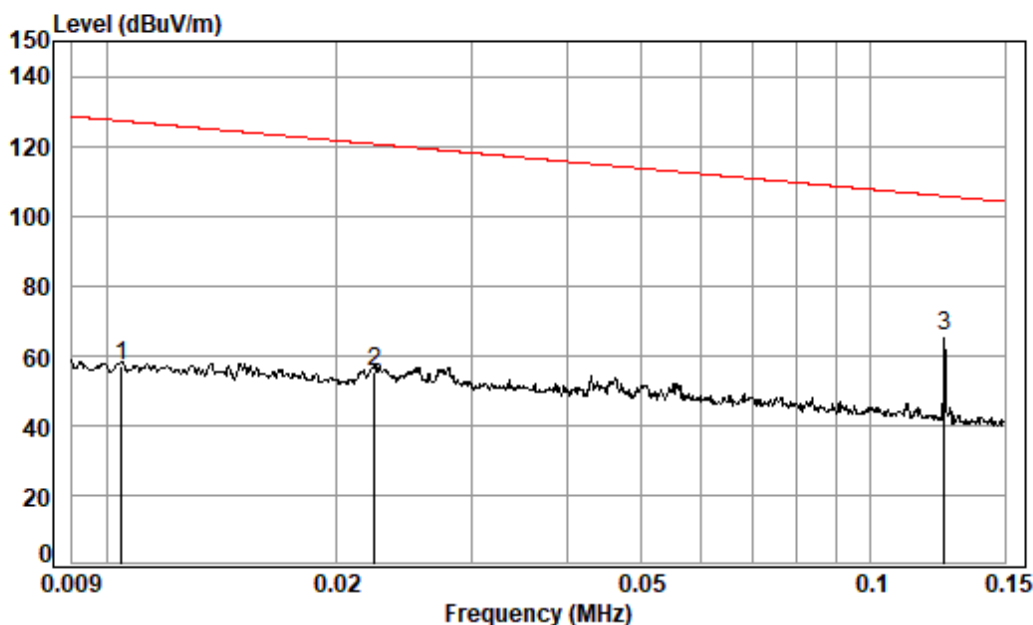
Pre-scan / Final test	Mode Code	Description
Pre-scan	11	TX mode(125kHz)_Keep the EUT in transmitting mode.
Final test	12	Charge + TX mode(125kHz)_Keep the EUT in charging and transmitting mode.
Pre-scan	13	TX mode(13.56MHz)_Keep the EUT in transmitting mode.
Final test	14	Charge + TX mode(13.56MHz)_Keep the EUT in charging and transmitting mode.

7.6.3 Test Setup Diagram



7.6.4 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.



Condition: 3m

Job No. : 05289AT

Test Mode: 12

: coaxial

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	0.010	69.86	18.00	0.10	31.20	56.76	127.21	-70.45	Average
2	0.022	73.72	13.37	0.11	31.74	55.46	120.59	-65.13	Average
3 pp	0.125	87.14	10.53	0.14	32.40	65.41	105.66	-40.25	Average

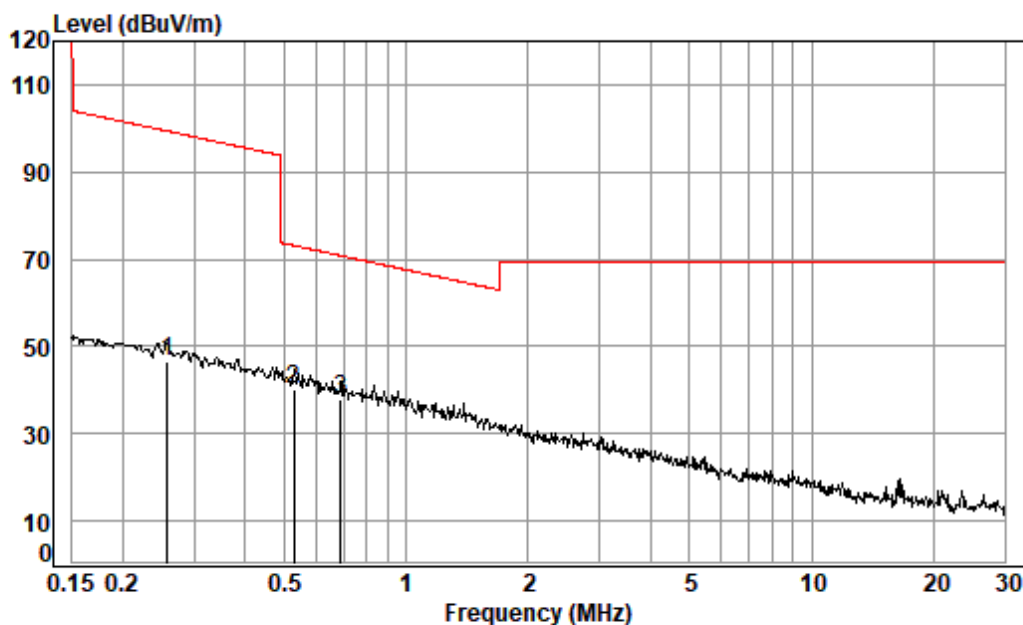


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Condition: 3m

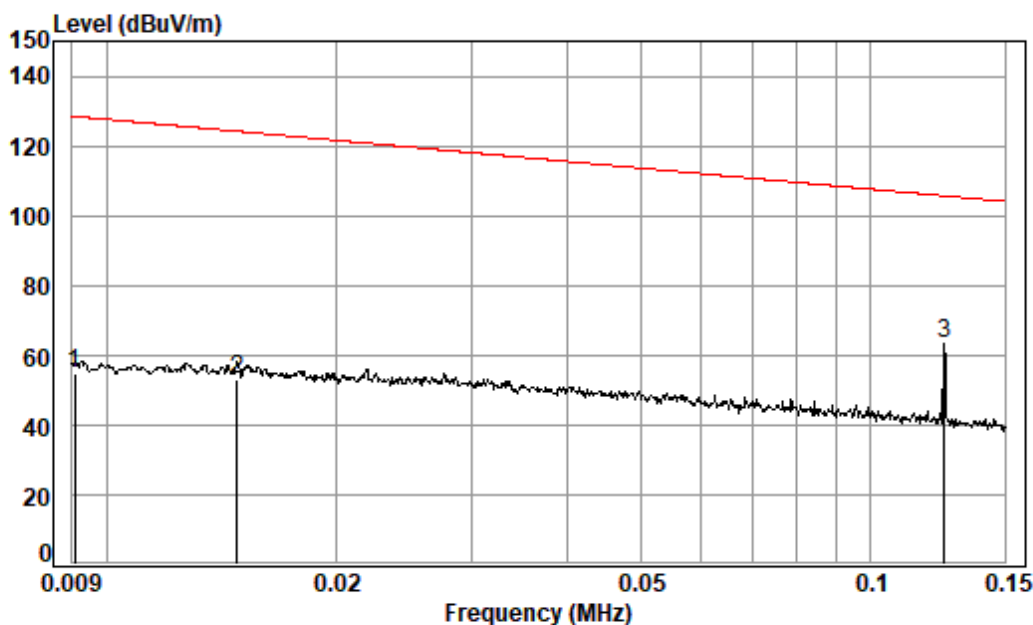
Job No. : 05289AT

Test Mode: 12

: coaxial

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	av	0.258	68.12	10.43	0.20	32.40	46.35	99.38	-53.03 Average
2	pp	0.529	62.21	10.37	0.29	32.51	40.36	73.12	-32.76 QP
3		0.690	59.70	10.35	0.32	32.55	37.82	70.81	-32.99 QP





Condition: 3m

Job No. : 05289AT

Test Mode: 12

: coplanar

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	0.009	66.92	19.03	0.10	31.11	54.94	128.43	-73.49	Average
2	0.015	68.31	16.06	0.11	31.45	53.03	124.18	-71.15	Average
3 pp	0.125	84.90	10.53	0.14	32.40	63.17	105.66	-42.49	Average

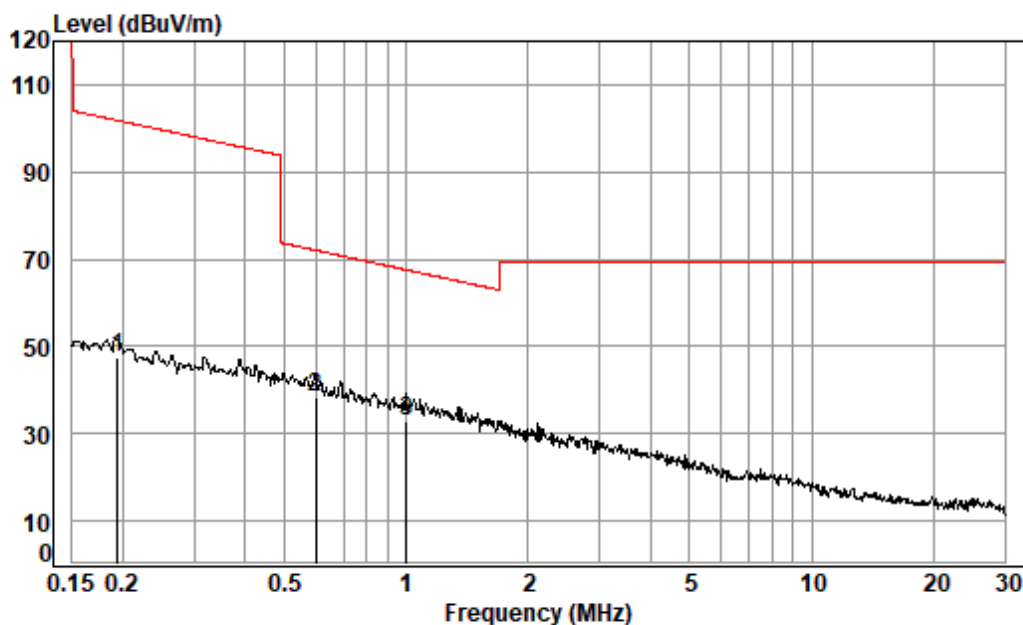


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Condition: 3m

Job No. : 05289AT

Test Mode: 12

: coplanar

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	av	0.194	69.00	10.46	0.17	32.40	47.23	101.82	Average
2	pp	0.598	60.20	10.36	0.30	32.53	38.33	72.06	QP
3		1.000	54.86	10.35	0.36	32.60	32.97	67.57	QP



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Coaxial

Frequency (MHz)	Level @ 3m (dBuV/m)	CorrectionFactor (dB)	Level @ 300m (dBuV/m)	Level @ 300m (dBuA/m)	Limit @ 300m (dBuA/m)	Level @ 30m (dBuV/m)	Level @ 30m (dBuA/m)	Limit @ 30m (dBuA/m)	Over Limit (dB)
0.009	55.22	80.00	-23.24	-74.74	-3.92	-	-	-	-70.82
0.011	53.81	80.00	-24.54	-76.04	-10.77	-	-	-	-65.27
0.023	51.31	80.00	-14.59	-66.09	-25.86	-	-	-	-40.23
0.153	52.29	80.00	-33.65	-85.15	-32.15	-	-	-	-53.00
0.499	42.55	40.00	-	-	-	0.36	-51.14	-18.39	-32.75
0.835	38.84	40.00	-	-	-	-2.18	-53.68	-20.69	-32.99

Coplanar

Frequency (MHz)	Level @ 3m (dBuV/m)	CorrectionFactor (dB)	Level @ 300m (dBuV/m)	Level @ 300m (dBuA/m)	Limit @ 300m (dBuA/m)	Level @ 30m (dBuV/m)	Level @ 30m (dBuA/m)	Limit @ 30m (dBuA/m)	Over Limit (dB)
0.009	53.16	80.00	-25.06	-76.56	-3.00	-	-	-	-73.56
0.012	52.11	80.00	-26.97	-78.47	-7.44	-	-	-	-71.03
0.019	50.49	80.00	-16.83	-68.33	-25.86	-	-	-	-42.47
0.177	50.72	80.00	-32.77	-84.27	-29.67	-	-	-	-54.60
0.544	43.03	40.00	-	-	-	-1.67	-53.17	-19.45	-33.72
0.963	38.51	40.00	-	-	-	-7.03	-58.53	-23.92	-34.61

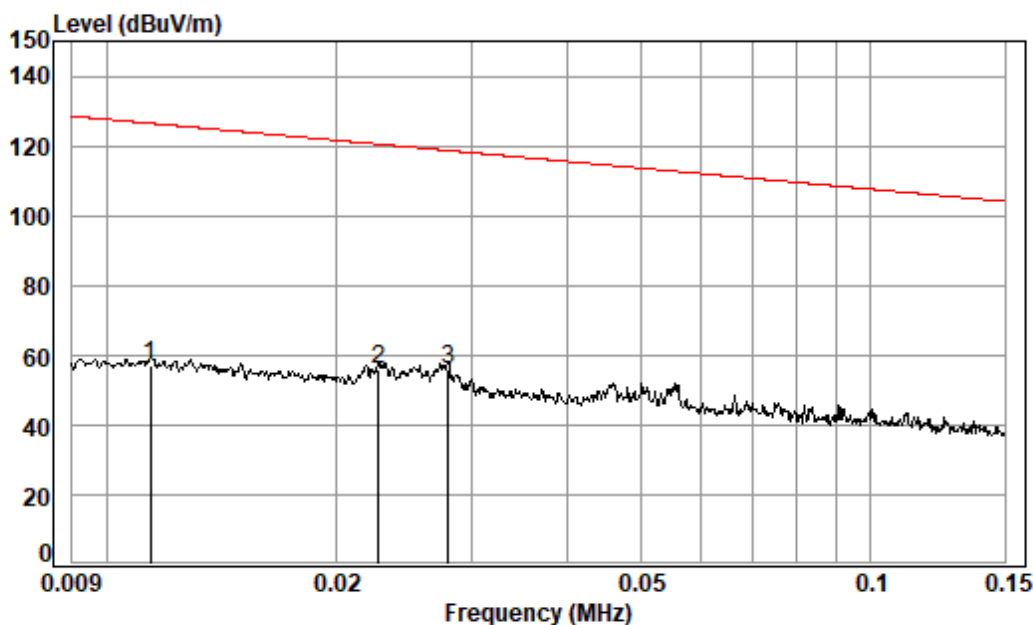


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Condition: 3m

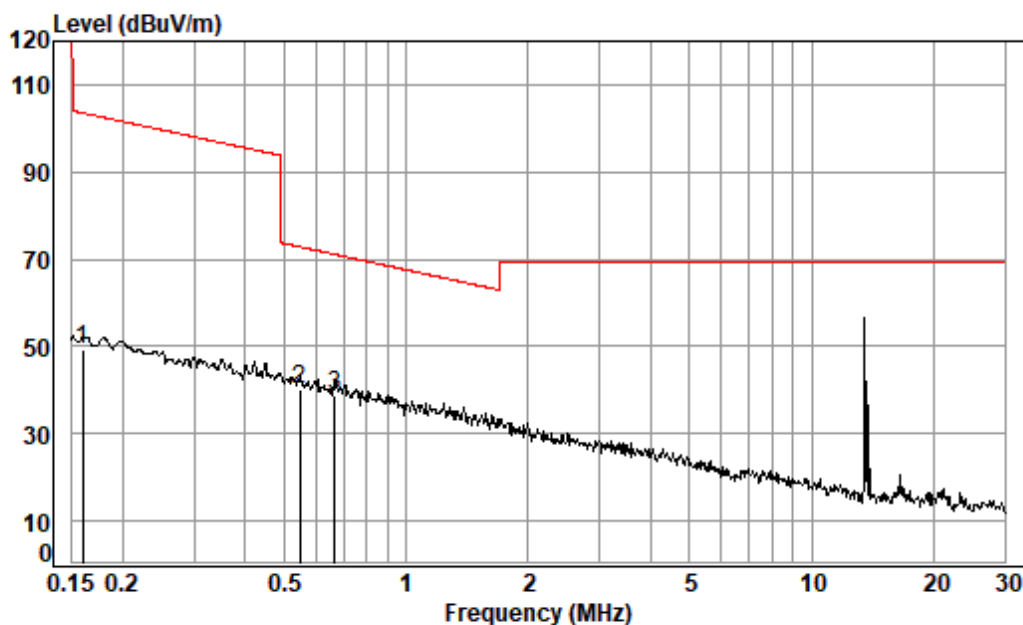
Job No. : 05289AT

Test Mode: 14

: coaxial

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	0.011	70.80	17.58	0.10	31.27	57.21	126.45	-69.24	Average
2	0.023	74.35	13.32	0.11	31.75	56.03	120.46	-64.43	Average
3 pp	0.028	75.05	12.48	0.12	31.89	55.76	118.66	-62.90	Average





Condition: 3m

Job No. : 05289AT

Test Mode: 14

: coaxial

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	av	0.159	70.94	10.49	0.15	32.40	49.18	103.57	Average
2		0.546	62.19	10.37	0.29	32.51	40.34	72.85	QP
3	pp	0.668	60.74	10.35	0.31	32.54	38.86	71.09	QP

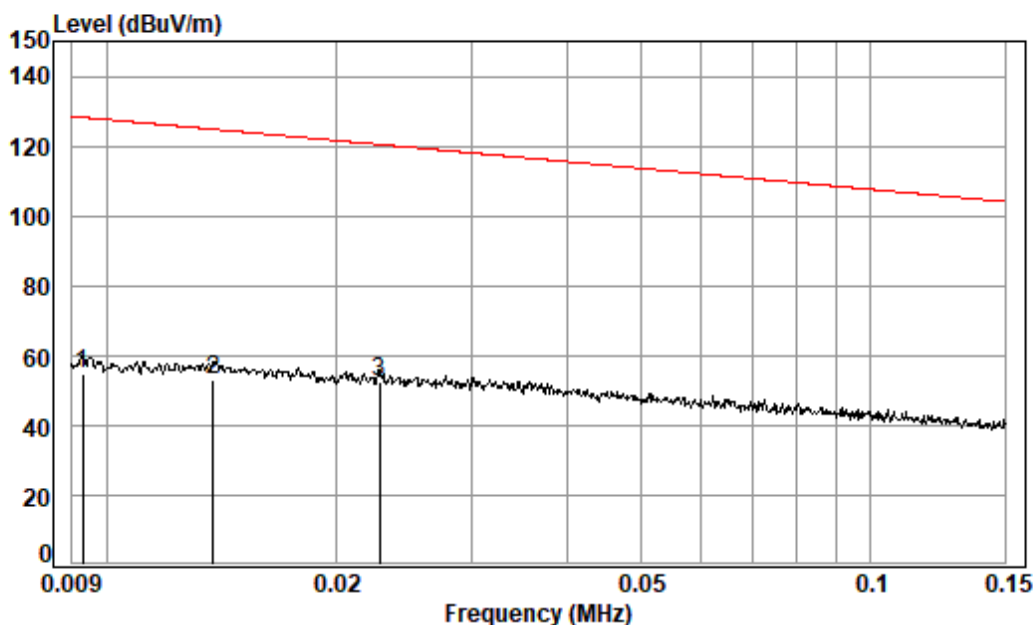


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Condition: 3m

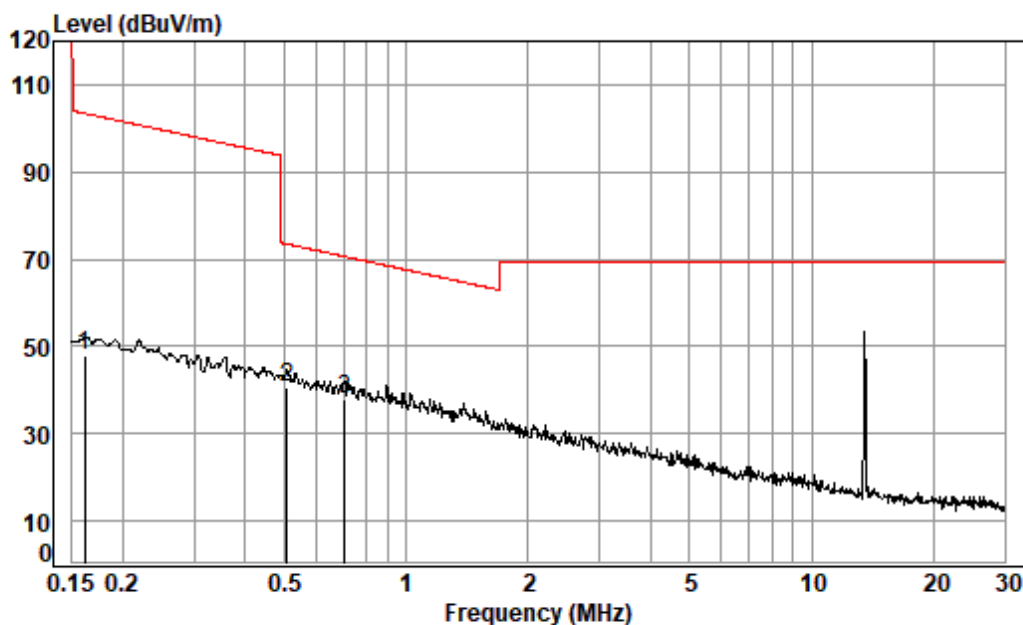
Job No. : 05289AT

Test Mode: 14

: coplanar

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	0.009	66.77	18.85	0.10	31.12	54.60	128.23	-73.63	Average
2	0.014	68.05	16.53	0.11	31.40	53.29	124.81	-71.52	Average
3 pp	0.023	70.74	13.31	0.11	31.75	52.41	120.44	-68.03	Average





Condition: 3m

Job No. : 05289AT

Test Mode: 14

: coplanar

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	av	0.162	69.60	10.49	0.15	32.40	47.84	103.43	-55.59 Average
2		0.507	62.34	10.37	0.28	32.50	40.49	73.50	-33.01 QP
3	pp	0.705	59.82	10.35	0.32	32.55	37.94	70.62	-32.68 QP



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Coaxial

Frequency (MHz)	Level @ 3m (dBuV/m)	CorrectionFactor (dB)	Level @ 300m (dBuV/m)	Level @ 300m (dBuA/m)	Limit @ 300m (dBuA/m)	Level @ 30m (dBuV/m)	Level @ 30m (dBuA/m)	Limit @ 30m (dBuA/m)	Over Limit (dB)
0.009	55.22	80.00	-22.79	-74.29	-4.75	-	-	-	-69.54
0.011	53.81	80.00	-23.97	-75.47	-11.15	-	-	-	-64.32
0.023	51.31	80.00	-24.24	-75.74	-12.86	-	-	-	-62.88
0.153	52.29	80.00	-30.82	-82.32	-27.95	-	-	-	-54.37
0.499	42.55	40.00	-	-	-	0.34	-51.16	-18.66	-32.50
0.835	38.84	40.00	-	-	-	-1.14	-52.64	-20.41	-32.23

Coplanar

Frequency (MHz)	Level @ 3m (dBuV/m)	CorrectionFactor (dB)	Level @ 300m (dBuV/m)	Level @ 300m (dBuA/m)	Limit @ 300m (dBuA/m)	Level @ 30m (dBuV/m)	Level @ 30m (dBuA/m)	Limit @ 30m (dBuA/m)	Over Limit (dB)
0.009	54.6	80.00	-25.4	-76.9	-3.00	-	-	-	-73.90
0.014	53.29	80.00	-26.71	-78.21	-6.84	-	-	-	-71.37
0.023	52.41	80.00	-27.59	-79.09	-11.15	-	-	-	-67.94
0.162	47.84	80.00	-32.16	-83.66	-28.11	-	-	-	-55.55
0.507	40.49	40.00	-	-	-	0.49	-51.01	-18.02	-32.99
0.705	37.94	40.00	-	-	-	-2.06	-53.56	-20.88	-32.68



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7.7 Radiated Emissions (30MHz-1GHz)

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

Test Method: ANSI C63.10 (2020) Section 6.5

Measurement Distance: 3m

Test Engineer: Mason Wu

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.

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C

Humidity: 47.5 % RH

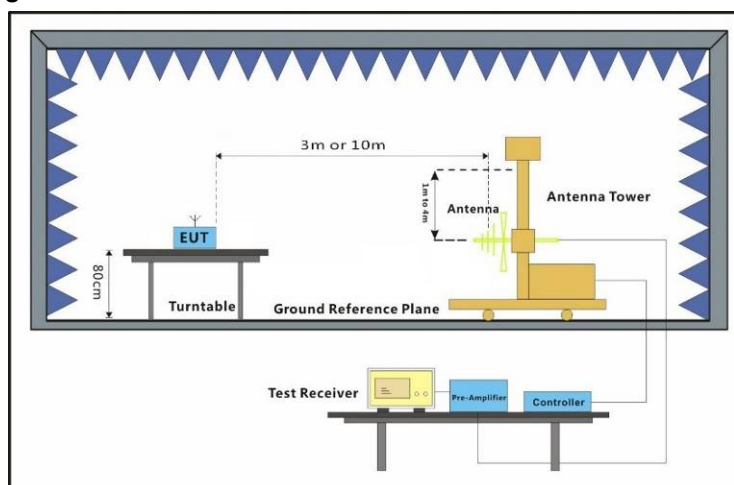
Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	11	TX mode(125kHz)_Keep the EUT in transmitting mode.
Final test	12	Charge + TX mode(125kHz)_Keep the EUT in charging and transmitting mode.
Pre-scan	13	TX mode(13.56MHz)_Keep the EUT in transmitting mode.
Final test	14	Charge + TX mode(13.56MHz)_Keep the EUT in charging and transmitting mode.



7.7.3 Test Setup Diagram

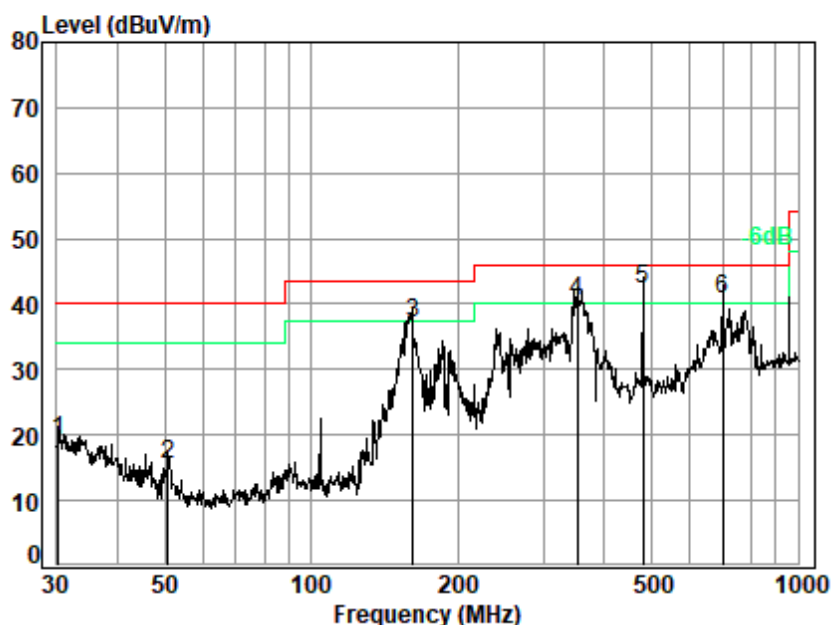


7.7.4 Measurement Procedure and Data

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



Test Mode: 12; Polarity: Horizontal

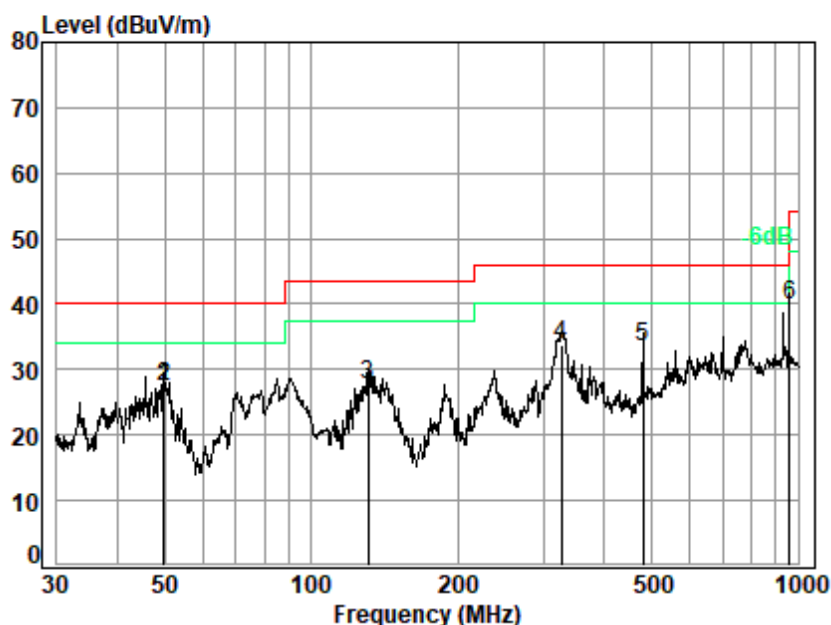


Site : chamber
Condition: 3m HORIZONTAL
Job No. : 05289AT
Test Mode: 12

	Ant	Cable	Preamp	Read		Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.211	21.10	0.74	27.65	25.08	19.27	40.00	-20.73 QP
2	50.764	12.64	0.90	27.63	29.52	15.43	40.00	-24.57 QP
3	161.474	13.48	1.55	27.74	49.96	37.25	43.50	-6.25 QP
4	351.708	19.97	2.32	27.64	45.80	40.45	46.00	-5.55 QP
5 q	480.528	22.75	2.75	27.91	44.62	42.21	46.00	-3.79 QP
6	699.305	25.93	3.41	27.83	39.30	40.81	46.00	-5.19 QP



Test Mode: 12; Polarity: Vertical

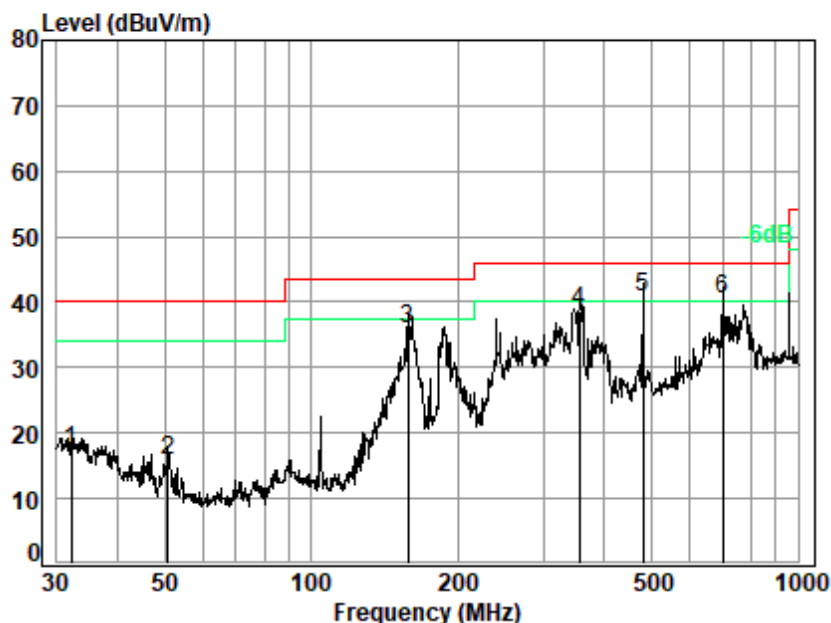


Site : chamber
Condition: 3m VERTICAL
Job No. : 05289AT
Test Mode: 12

	Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	49.881	12.79	0.90	27.63	41.30	27.36	40.00	-12.64 QP
2	49.881	12.79	0.90	27.63	41.30	27.36	40.00	-12.64 QP
3	130.837	11.05	1.41	27.68	43.03	27.81	43.50	-15.69 QP
4	326.740	18.64	2.22	27.57	40.60	33.89	46.00	-12.11 QP
5	480.528	22.75	2.75	27.91	35.98	33.57	46.00	-12.43 QP
6 q	958.794	28.10	4.09	26.63	34.25	39.81	46.00	-6.19 QP



Test Mode: 14; Polarity: Horizontal

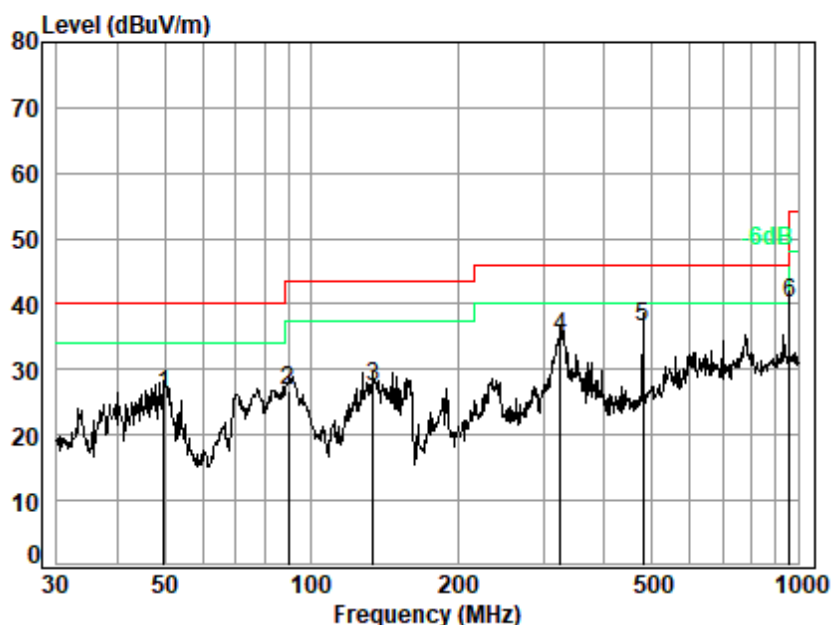


Site : chamber
Condition: 3m HORIZONTAL
Job No. : 05289AT
Test Mode: 14

	Ant Freq	Cable Factor	Preamp Loss	Read Factor	Level dBuV	Limit dBuV/m	Over Line	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dB	
1	32.179	20.20	0.76	27.65	23.92	17.23	40.00	-22.77 QP
2	50.764	12.64	0.90	27.63	29.99	15.90	40.00	-24.10 QP
3	158.112	13.64	1.54	27.73	48.59	36.04	43.50	-7.46 QP
4	355.427	20.09	2.33	27.65	43.83	38.60	46.00	-7.40 QP
5 q	480.528	22.75	2.75	27.91	43.22	40.81	46.00	-5.19 QP
6	699.305	25.93	3.41	27.83	38.88	40.39	46.00	-5.61 QP



Test Mode: 14; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 05289AT
Test Mode: 14

	Ant	Cable	Preamp	Read		Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	49.881	12.79	0.90	27.63	40.08	26.14	40.00	-13.86 QP
2	89.905	11.72	1.18	27.60	41.61	26.91	43.50	-16.59 QP
3	134.088	11.30	1.42	27.68	42.40	27.44	43.50	-16.06 QP
4	325.596	18.62	2.22	27.57	41.66	34.93	46.00	-11.07 QP
5	480.528	22.75	2.75	27.91	38.94	36.53	46.00	-9.47 QP
6 q	958.794	28.10	4.09	26.63	34.46	40.02	46.00	-5.98 QP



8 Test Setup Photo

Refer to Appendix – Test Setup Photos for SZCR2512005289AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2512005289AT

- End of the Report -

