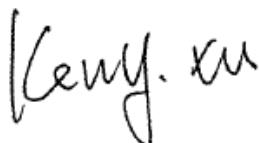


Report No.: SZEM201201302806
Page: 1 of 31

TEST REPORT

Application No.: SZEM2012013028CR
Applicant: PAX Technology Limited
Address of Applicant: Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour, Hong Kong, China
Manufacturer: PAX Computer Technology(Shenzhen) Co., Ltd.
Address of Manufacturer: 4/F, No.3 Building, Software Park, Second Central Science-Tech Road, High-Tech industrial Park, Shenzhen, Guangdong, P.R.C.
Equipment Under Test (EUT):
EUT Name: Mobile Payment Cell Phone
Model No.: M50
Trade Mark: PAX
FCC ID: V5PM50
Standard(s) : 47 CFR Part 15, Subpart C 15.225
Date of Receipt: 2020-12-17
Date of Test: 2020-12-18 to 2021-01-04
Date of Issue: 2021-01-07
Test Result: **Pass***

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



Keny Xu
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-01-07		Original

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

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2 Test Summary

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
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
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
Conducted Emissions at Mains Terminals (9kHz-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
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
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
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15, Subpart C 15.225	ANSI C63.10 (2013) Section 6.4&6.5	47 CFR Part 15, Subpart C 15.225(d) & 15.209	Pass
Radiated Emissions (9kHz-30MHz)	47 CFR Part 15, Subpart C 15.225	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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4 General Information

4.1 Details of E.U.T.

Power supply:	DC3.85V by li-ion battery(3020mAh) Recharged by power adapter Adapter M/N: SW-0983 Adapter input: AC100-240V, 50/60Hz, 0.5A Adapter output: DC5V/2A
Cable(s):	USB type C cable: 1m shielded cable without ferrite core
Modulation Type:	ASK
Operation Frequency:	13.56MHz
Antenna type:	Loop antenna

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

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

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr} (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

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

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
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

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	2020-09-23	2021-09-22
LISN	ETS-LINDGREN	3816/2	SEM007-02	2020-04-01	2021-03-31

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
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2019-08-08	2022-08-07
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

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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
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

Radiated Emissions (30MHz-1GHz)					
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
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2019-08-08	2022-08-07
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 (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
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2019-08-08	2022-08-07
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

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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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6 Radio Spectrum Matter Test Results

6.1 20dB Bandwidth

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

Limit:

N/A

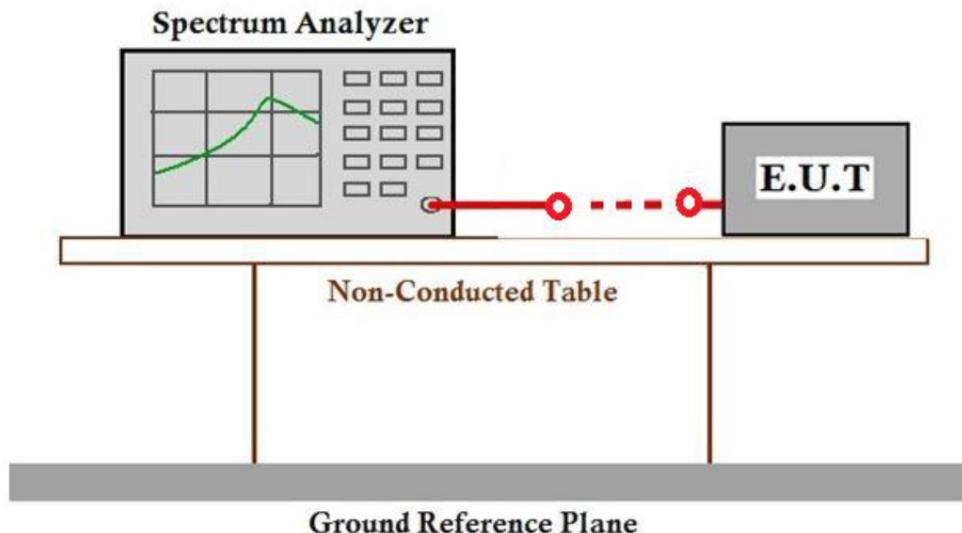
6.1.1 E.U.T. Operation

Operating Environment:
Temperature: 21.5 °C Humidity: 45 % RH Atmospheric Pressure: 1010 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	16	TX mode with modulation

6.1.3 Test Setup Diagram

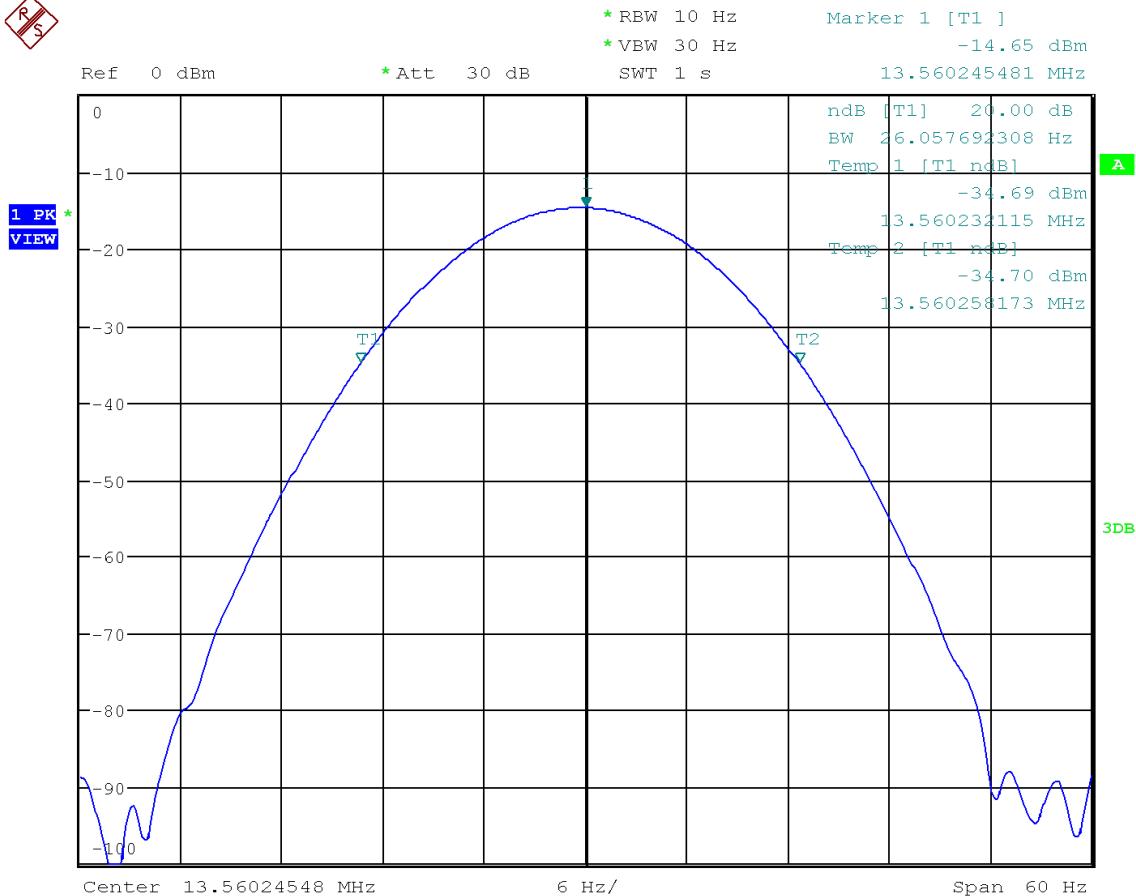


6.1.4 Measurement Procedure and Data



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6.2 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:

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.

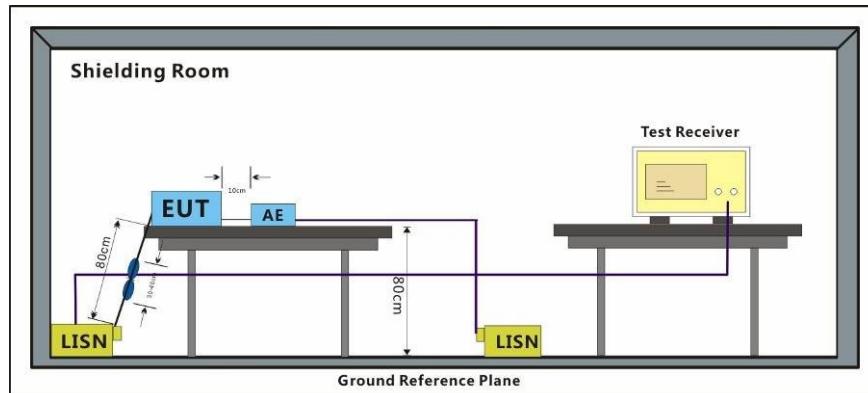
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 47.0 % RH Atmospheric Pressure: 1010 mbar

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	16	TX mode with modulation

6.2.3 Test Setup Diagram

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6.2.4 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 + 50hm 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



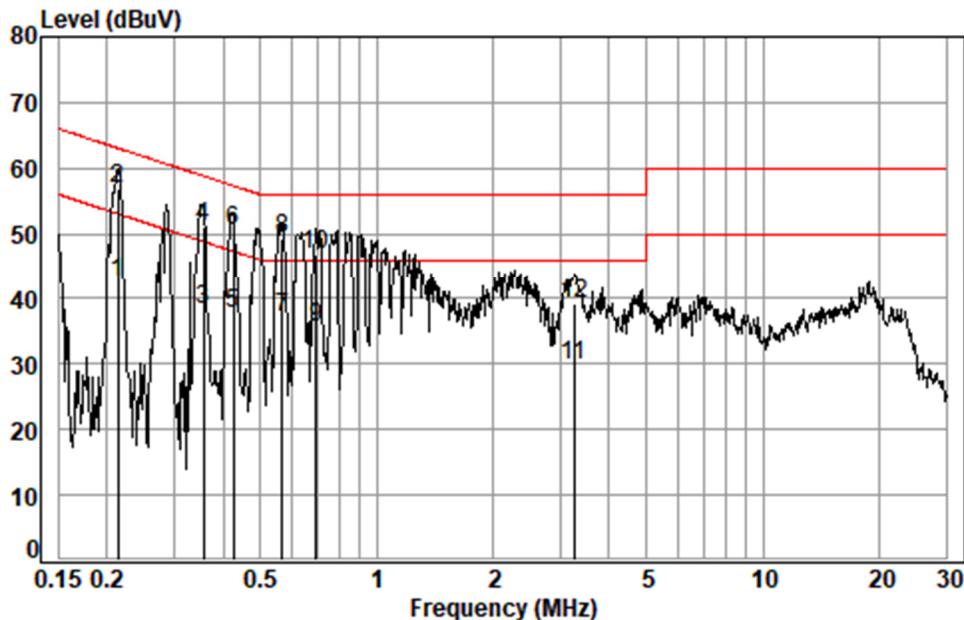
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Test Mode: 16; Line: Live line



Site : Shielding Room

Condition: Line

Job No. : 13028CR

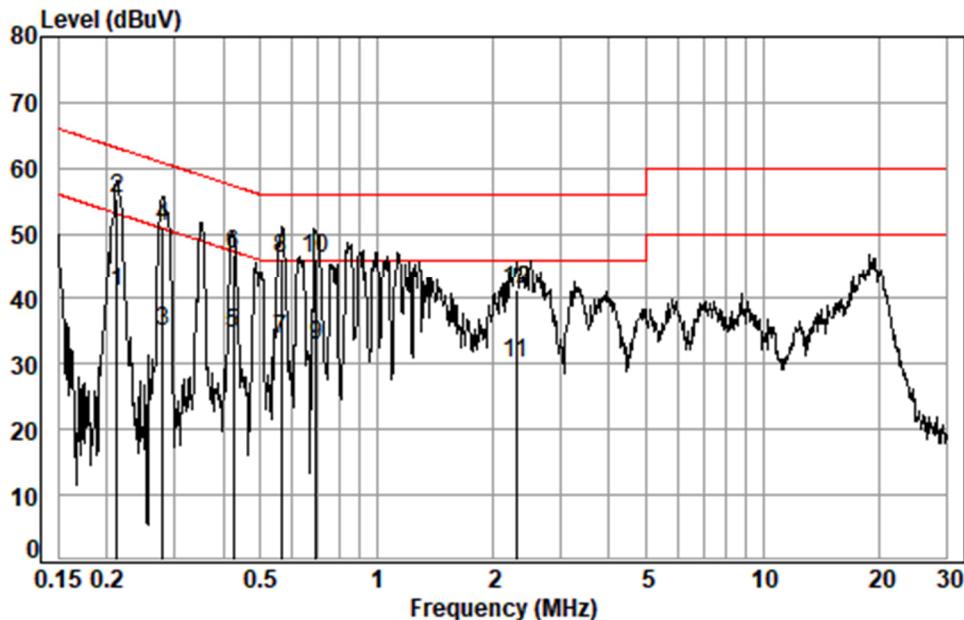
Test mode: 16

Freq	Cable Loss	LISN Factor	Read Level		Limit Line	Over Limit	Remark
			MHz	dB	dBuV	dBuV	
1	0.2139	0.04	9.73	32.93	42.70	53.05	-10.35 Average
2	0.2139	0.04	9.73	47.20	56.97	63.05	-6.08 QP
3	0.3558	0.06	9.75	28.59	38.40	48.83	-10.43 Average
4	0.3558	0.06	9.75	41.44	51.25	58.83	-7.58 QP
5	0.4260	0.07	9.76	27.95	37.78	47.33	-9.55 Average
6	0.4260	0.07	9.76	40.53	50.36	57.33	-6.97 QP
7	0.5701	0.08	9.77	27.25	37.10	46.00	-8.90 Average
8	0.5701	0.08	9.77	39.34	49.19	56.00	-6.81 QP
9	0.6973	0.09	9.77	25.64	35.50	46.00	-10.50 Average
10	0.6973	0.09	9.77	36.89	46.75	56.00	-9.25 QP
11	3.2411	0.14	9.85	19.83	29.82	46.00	-16.18 Average
12	3.2411	0.14	9.85	29.24	39.23	56.00	-16.77 QP

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Test Mode: 16; Line: Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 13028CR

Test mode: 16

Freq	Cable Loss	LISN Factor	Read	Limit Line	Over Limit	Remark
			Level			
MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.2128	0.04	9.72	31.22	40.98	53.10 -12.12 Average
2	0.2128	0.04	9.72	45.74	55.50	63.10 -7.60 QP
3	0.2788	0.05	9.74	25.05	34.84	50.85 -16.01 Average
4	0.2788	0.05	9.74	41.40	51.19	60.85 -9.66 QP
5	0.4260	0.07	9.75	24.95	34.77	47.33 -12.56 Average
6	0.4260	0.07	9.75	37.08	46.90	57.33 -10.43 QP
7	0.5671	0.08	9.77	23.77	33.62	46.00 -12.38 Average
8	0.5671	0.08	9.77	36.40	46.25	56.00 -9.75 QP
9	0.6973	0.09	9.77	22.94	32.80	46.00 -13.20 Average
10	0.6973	0.09	9.77	36.44	46.30	56.00 -9.70 QP
11	2.2968	0.13	9.82	20.25	30.20	46.00 -15.80 Average
12	2.2968	0.13	9.82	31.28	41.23	56.00 -14.77 QP

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6.3 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 test was performed at a 10m test site.

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_{limit} is the calculation of field strength at the limit distance, expressed in dB μ V/m
 FS_{max} is the measured field strength, expressed in dB μ V/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 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 dB μ V/m at 10 meters.

6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 46 % RH Atmospheric Pressure: 1010 mbar



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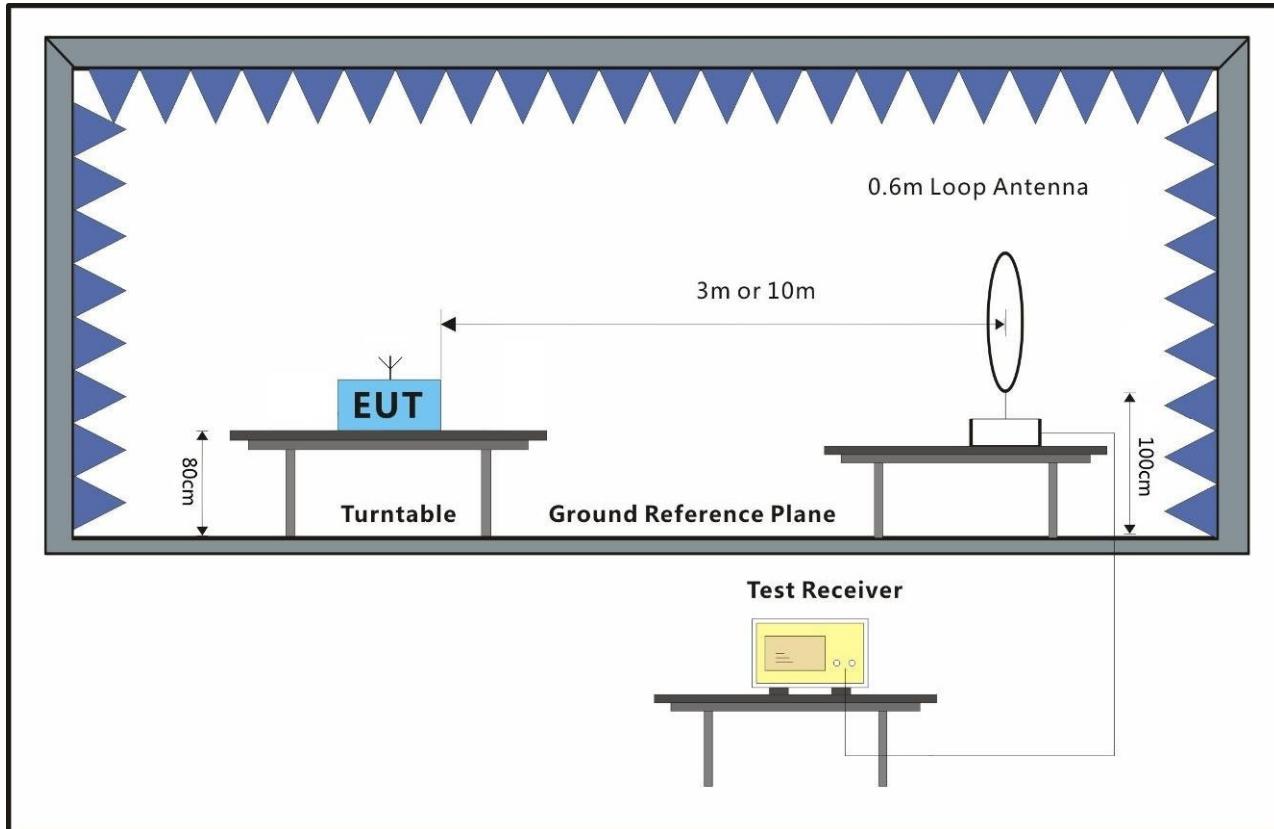
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6.3.2 Test Mode Description

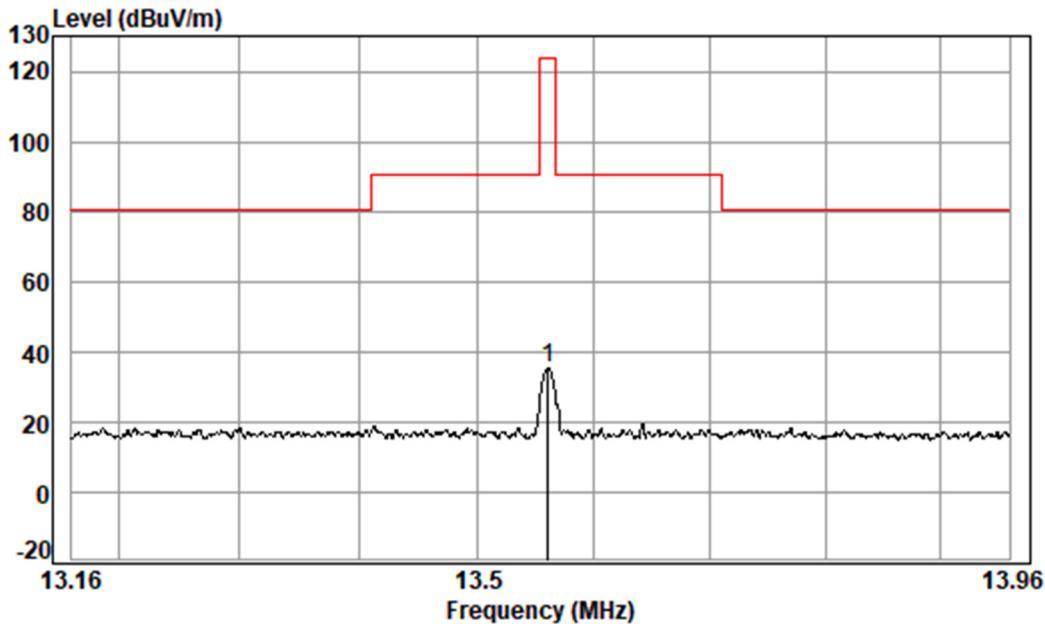
Pre-scan / Final test	Mode Code	Description
Final test	16	TX mode with modulation

6.3.3 Test Setup Diagram**6.3.4 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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Condition: 3m
Job No. : 13028CR
Test Mode: 16

	Ant Freq	Preamp Factor	Cable Loss	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	13.561	8.88	32.50	0.62	58.16	35.16	124.00	-88.84 QP



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6.4 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

6.4.1 E.U.T. Operation

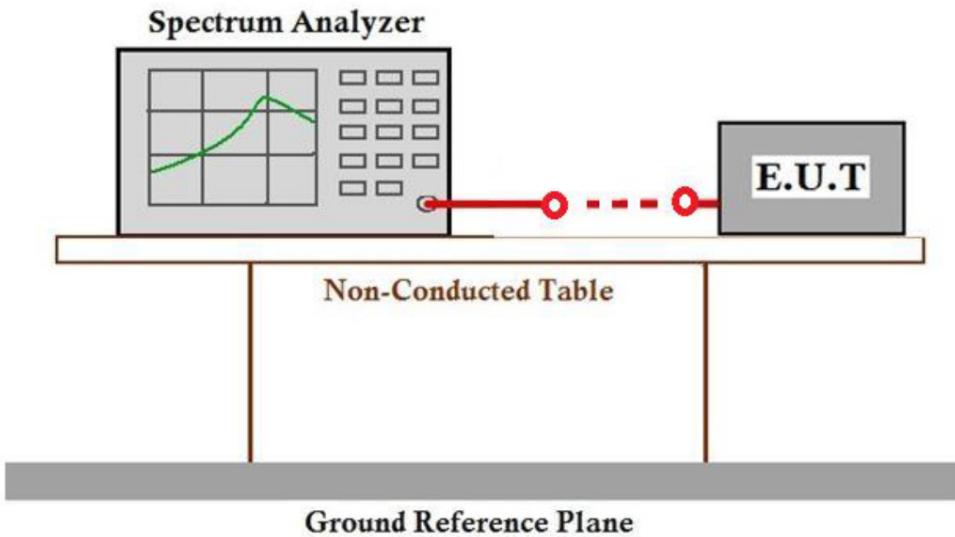
Operating Environment:

Temperature: 21.5 °C Humidity: 45 % RH Atmospheric Pressure: 1010 mbar

6.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	16	TX mode with modulation

6.4.3 Test Setup Diagram



6.4.4 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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Mode:16

Declared Frequency (MHz)	13.56MHz	@10 minutes
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Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Frequency Tolerance (%)	Limit (%)	Result
50	3.85	13.560319	0.002353	±0.01	Pass
40		13.560323	0.002382		Pass
30		13.560318	0.002345		Pass
20		13.560304	0.002242		Pass
10		13.560282	0.002080		Pass
0		13.560306	0.002257		Pass
-10		13.560274	0.002021		Pass
-20		13.560261	0.001925		Pass
20	4.4	13.560248	0.001829		Pass
	3.4	13.560292	0.002153		Pass

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6.5 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: 10m

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.

6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 46 % RH Atmospheric Pressure: 1010 mbar

6.5.2 Test Mode Description

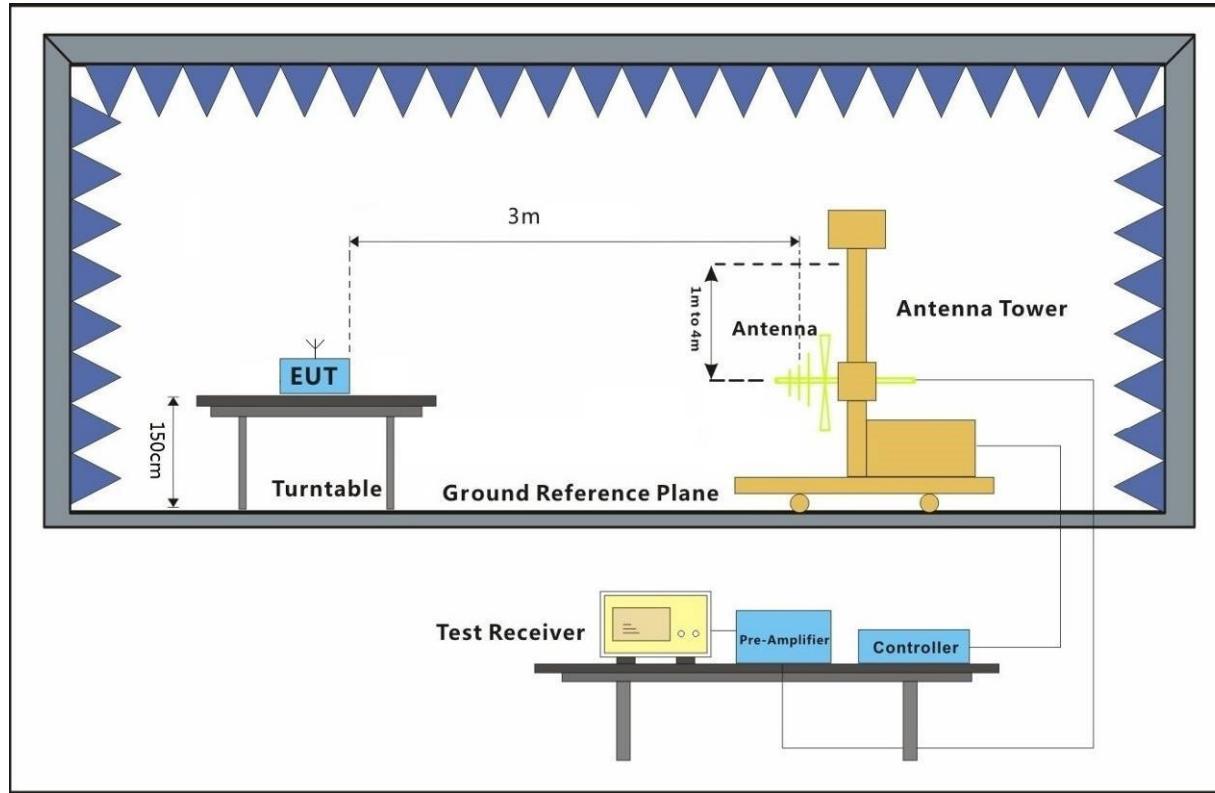
Pre-scan / Final test	Mode Code	Description
Final test	16	TX mode with modulation

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6.5.3 Test Setup Diagram**6.5.4 Measurement Procedure and Data**

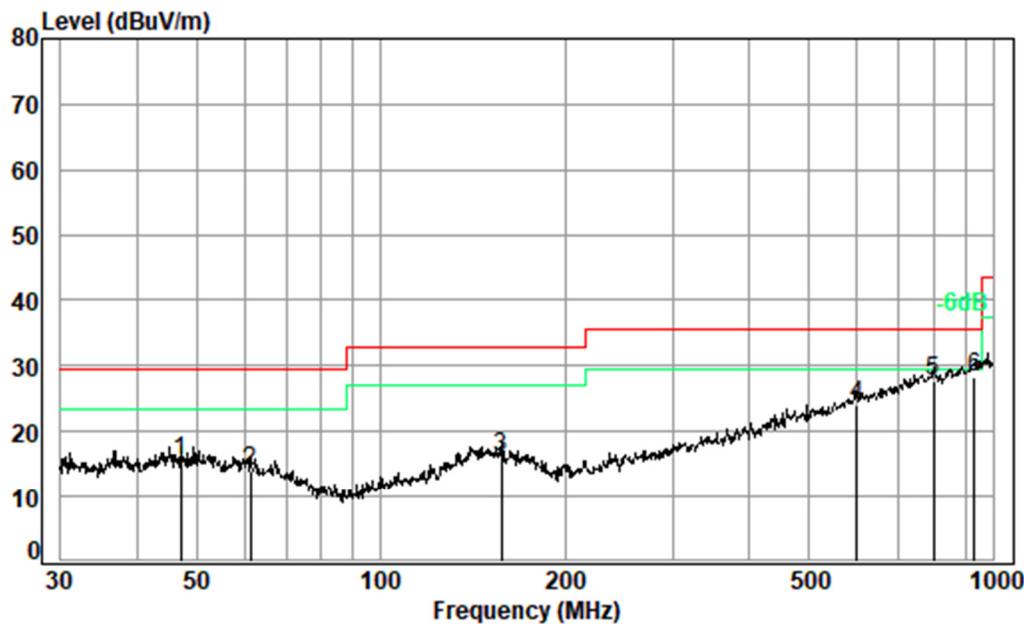
- The EUT was placed on the top of a rotating table 0.8 meters above the ground for below 1GHz at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.
- 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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Test Mode: 16; Polarity: Horizontal



Condition: 10m HORIZONTAL

Job No. : 13028CR

Test Mode: 16

Freq	Ant	Preamp	Cable	Read	Limit		Over	Remark
					Factor	Factor		
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	47.160	20.32	32.50	0.95	26.87	15.64	29.50	-13.86 QP
2	61.346	19.10	32.49	1.05	26.47	14.13	29.50	-15.37 QP
3	157.559	19.90	32.42	1.51	27.21	16.20	33.00	-16.80 QP
4	599.321	26.07	32.30	3.09	27.31	24.17	35.60	-11.43 QP
5	798.980	28.59	32.10	3.33	27.98	27.80	35.60	-7.80 QP
6 pp	932.272	29.80	31.30	3.52	26.33	28.35	35.60	-7.25 QP

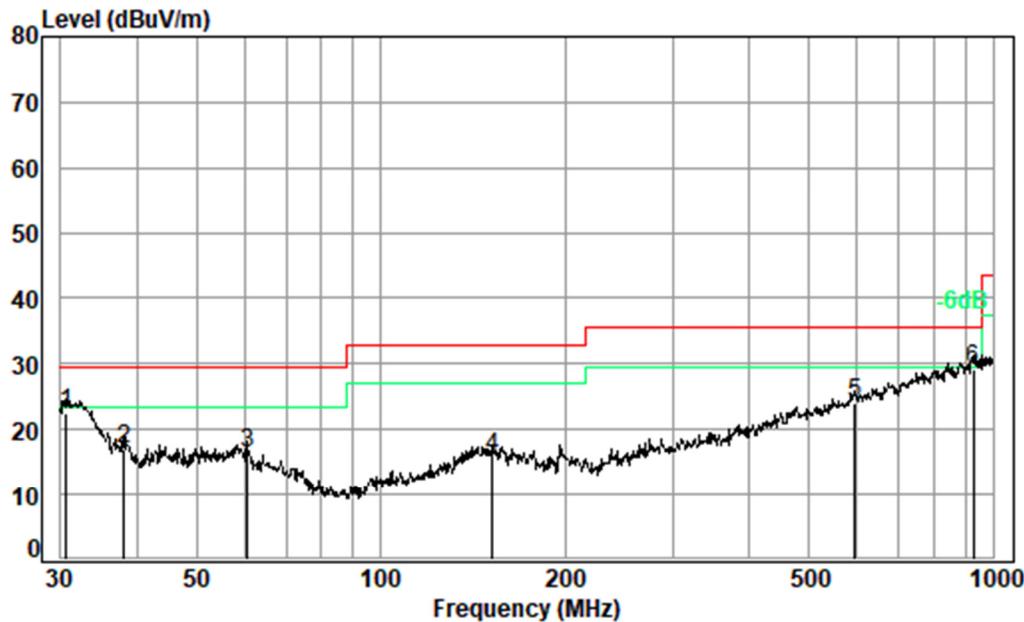
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Test Mode: 16; Polarity: Vertical



Condition: 10m VERTICAL

Job No. : 13028CR

Test Mode: 16

Freq	Ant	Preamp	Cable	Read	Limit	Over	Remark	
	Freq	Factor	Factor	Loss	Level	Level	Line	Limit
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.638	18.63	32.50	0.87	35.51	22.51	29.50	-6.99 QP
2	38.078	20.00	32.50	0.92	28.52	16.94	29.50	-12.56 QP
3	60.492	19.10	32.49	1.05	28.62	16.28	29.50	-13.22 QP
4	152.130	20.11	32.42	1.49	26.59	15.77	33.00	-17.23 QP
5	595.133	25.91	32.30	3.09	27.19	23.89	35.60	-11.71 QP
6 pp	929.008	29.80	31.33	3.51	27.27	29.25	35.60	-6.35 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_3 : Level @ 3m distance. Unit: uV/m;

L_{10} : Level @ 10m distance. Unit: uV/m;

D_3 : 3m distance. Unit: m

D_{10} : 10m distance. Unit: m

The level at 3m test distance is below:

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
30.64	22.51	13.35	44.50	32.97	40.00	-7.03	V
38.08	16.94	7.03	23.44	27.40	40.00	-12.60	V
60.49	16.28	6.52	21.72	26.74	40.00	-13.26	V
152.13	15.77	6.14	20.48	26.23	43.50	-17.27	V
595.13	23.89	15.65	52.16	34.35	46.00	-11.65	V
929.01	29.25	29.01	96.69	39.71	46.00	-6.29	V
47.16	15.64	6.05	20.18	26.10	40.00	-13.90	H
61.35	14.13	5.09	16.96	24.59	40.00	-15.41	H
157.56	16.20	6.46	21.52	26.66	43.50	-16.84	H
599.32	24.17	16.16	53.87	34.63	46.00	-11.37	H
798.98	27.80	24.55	81.82	38.26	46.00	-7.74	H
932.27	28.35	26.15	87.17	38.81	46.00	-7.19	H



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6.6 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: 10m

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

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

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):

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

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.SGS-CSTC Standards Technical Services Co., Ltd.
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$$FS_{\text{limit}} = FS_{\text{max}} - 40 \log \left(\frac{d_{\text{limit}}}{d_{\text{measure}}} \right)$$

where

FS_{limit} is the calculation of field strength at the limit distance, expressed in dB μ V/m
 FS_{max} is the measured field strength, expressed in dB μ V/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

6.6.1 E.U.T. Operation

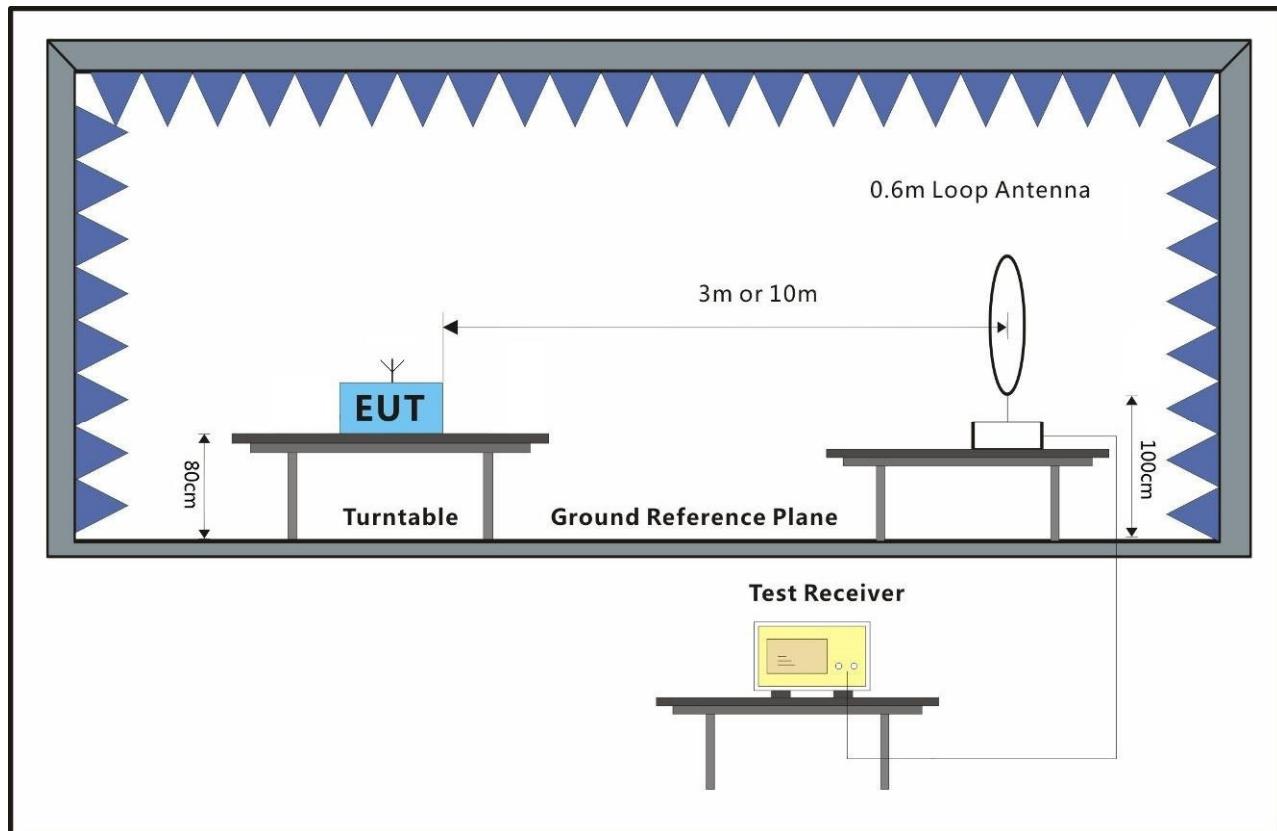
Operating Environment:

Temperature: 23.5 °C Humidity: 46 % RH Atmospheric Pressure: 1010 mbar

6.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	16	TX mode with modulation

6.6.3 Test Setup Diagram

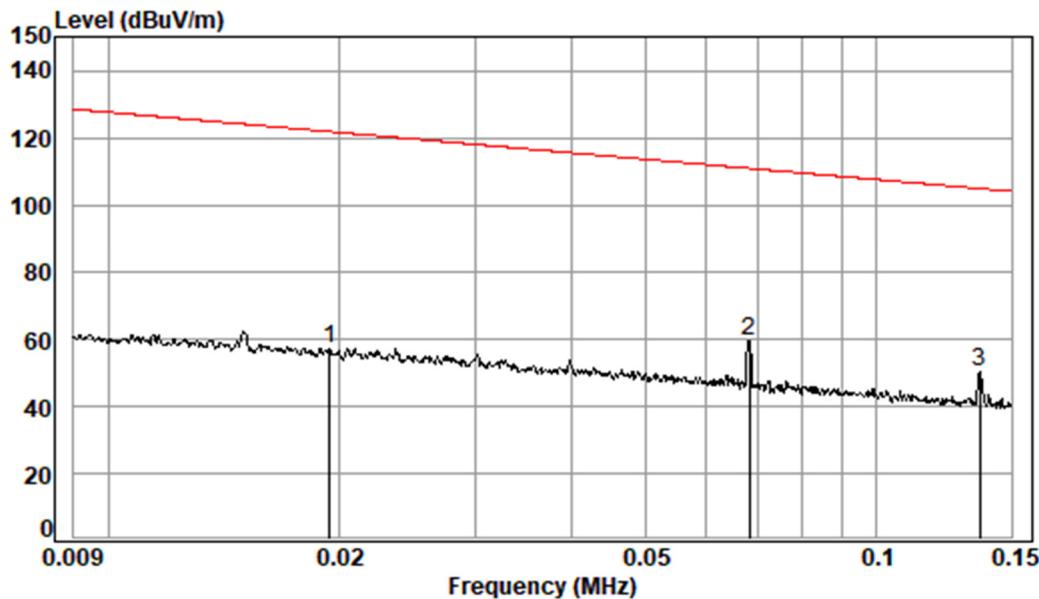


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6.6.4 Measurement Procedure and Data

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. : 13028CR

Test Mode: 16

	Freq	Ant	Preamp	Cable	Read	Limit	Line	Over	Remark	
		Freq	Factor	Factor	Loss	Level	Level	dBuV/m	dBuV/m	dB
	MHz	dB/m	dB	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	0.019	14.36	31.89	0.01	74.58	57.06	121.83	-64.77	Average	
2 pp	0.068	11.28	32.50	0.01	80.37	59.16	110.92	-51.76	Average	
3	0.136	11.01	32.50	0.02	71.94	50.47	104.91	-54.44	Average	

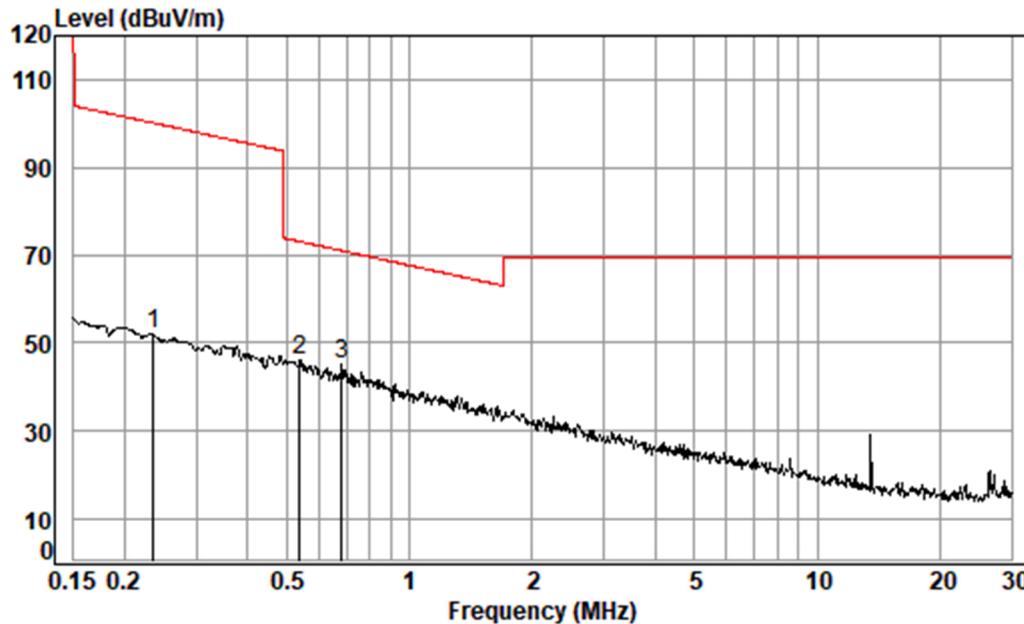
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Condition: 3m

Job No. : 13028CR

Test Mode: 16

		Ant Freq	Preamp Factor	Cable Loss	Read Level	Limit Level	Limit Line	Over Limit	Remark
		MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	av	0.235	10.93	32.50	0.18	73.39	52.00	100.17	-48.17 Average
2		0.538	10.85	32.50	0.51	67.41	46.27	72.99	-26.72 QP
3	pp	0.683	10.83	32.50	0.60	66.24	45.17	70.90	-25.73 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 Test Setup Photo

Please refer to setup photos.

8 EUT Constructional Details (EUT Photos)

Please Refer to external and internal photos for details.

- End of the Report -

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