RF TEST REPORT

Report No.: 16020761-FCC-R1
Supersede Report No.: N/A

Applicant	Shanghai Smarfid Security Equipment Co.,Ltd.
Product Name	Magic MINI Legic Reader
Main Model	LE382-8N
Serial Model	N/A
Test Standard	FCC Part 15.225: 2016, ANSI C63.10: 2013
Test Date	July 07 to July 12, 2017
Issue Date	July 13, 2017
Test Result	☑ Pass ☐ Fail
Equipment complied with the specification	☒
Equipment did not comply with the specification	☐

Trety Lu	Deon Dai	
Trety Lu Test Engineer	Deon Dai Reviewer By	

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Test result presented in this test report is applicable to the tested sample only

Issued by:
SIEMIC (Nanjing-China) Laboratories
2-1 Longcang Avenue Yuhua Economic and
Technology Development Park, Nanjing, China
Tel:+86(25)86730128/86730129 Fax:+86(25)86730127 Email: China@siemic.com.cn

Laboratories Introduction

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Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety

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1. Report Revision History

Report No.	Report Version	Description	Issue Date
16020761-FCC-R1	NONE	Original	July 13, 2017

2. Customer information

Applicant Name	Shanghai Smarfid Security Equipment Co.,Ltd.
Applicant Address	No. 88, Lane 600, XinLi Road, Minhang District, Shanghai, China
Manufacturer Name	Shanghai Smarfid Security Equipment Co.,Ltd.
Manufacturer Address	No. 88, Lane 600, XinLi Road, Minhang District, Shanghai, China

3. Test site information

Lab performing tests	SIEMIC (Nanjing-China) Laboratories
Lab Address	2-1 Longcang Avenue Yuhua Economic and Technology Development Park, Nanjing, China
FCC Test Site No.	694825
IC Test Site No.	4842B-1
Test Software	EZ_EMC

4. Equipment Under Test (EUT) Information

Description of EUT:	Magic MINI Legic Reader
Main Model:	LE382-8N
Serial Model:	N/A
Date EUT received:	July 06, 2017
Test Date(s):	July 07 to July 12, 2017
Antenna Gain:	13.56MHz: 6dBi
Type of Modulation:	ASK
RF Operating Frequency (ies):	13.56MHz
Number of Channels:	1 CH
Input Power:	DC 12V
Trade Name :	N/A
FCC ID:	X3A-LE3821356MHZ

5. Test Summary

The product was tested in accordance with the following specifications.
All testing has been performed according to below product classification:

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.207(a)	Conducted Emissions Voltage	Compliance
§15.225(a)	Fundamental Field Strength	Compliance
§15.225(b)	Fundamental Field Strength	Compliance
§15.225(c)	Fundamental Field Strength	Compliance
§15.225(d),15.209	Radiated Emissions	Compliance
§15.225(e)	Frequency Stability	Compliance
§15.215(c)	Occupied Bandwidth	Compliance

Measurement Uncertainty

Emissions		
Test Item	Description	Uncertainty
Conducted Emissions &Radiated Spurious Emissions	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	1.634dB / 3.952dB

6. Measurements, Examination And Derived Results

6.1 Antenna Requirement

Applicable Standard

Requirement(s): 47 CFR §15.203

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.

Antenna requirement must meet at least one of the following:

a) Antenna must be permanently attached to the device.

b) Antenna must use a unique type of connector to attach to the device.

c) Device must be professionally installed. Installer shall be responsible for ensuring that the correct antenna is employed with the device.

The antenna is permanently attached to the device which meets the requirement.

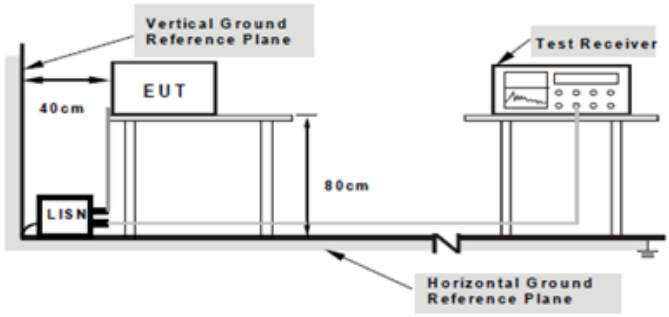
Result: Compliance.

6.2 Conducted Emissions Voltage

Temperature	25°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
Test date :	July 07, 2017
Tested By :	Trety Lu

Conducted Emission Limit

Frequency ranges (MHz)	Limit (dBμV)	
	QP	Average
0.15 ~ 0.5	66 – 56	56 – 46
0.5 ~ 5	56	46
5 ~ 30	60	50

Spec	Item	Requirement	Applicable
47CFR§15.207, RSS210 (A8.1)	a)	For Low-power radio-frequency devices that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 [mu]H/50 ohms line impedance stabilization network (LISN). The lower limit applies at the boundary between the frequency ranges.	☒
Test Setup	 Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.		
Procedure	- The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table, as shown in Annex B. - The power supply for the EUT was fed through a 50W/50mH EUT LISN, connected to filtered mains. - The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable. - All other supporting equipment were powered separately from another main supply.		
Remark			
Result	☒Pass ☐Fail		

Test Data ☒Yes ☐N/A

Test Plot ☒Yes (See below) ☐N/A

Data sample

Data sample

No.	Frequency	Reading	Detector	Lisn/Isn	Ps_Lmt	Cab_L	Result	Limit	Margin
	(MHz)	(dBμV)		(dB}	(dB)	(dB)	(dBμV)	(dBμV)	(dB)

Frequency (MHz) = Emission frequency in MHz

Reading (dBμV) = Receiver Reading Value

Detector=Quasi Peak Detector or Average Detector

Lisn/ISN= Insertion loss of LISN

Ps_Lmt= Insertion loss of transient limiter (The transient limiter included 10dB attenuation)

Cab_L= cable loss

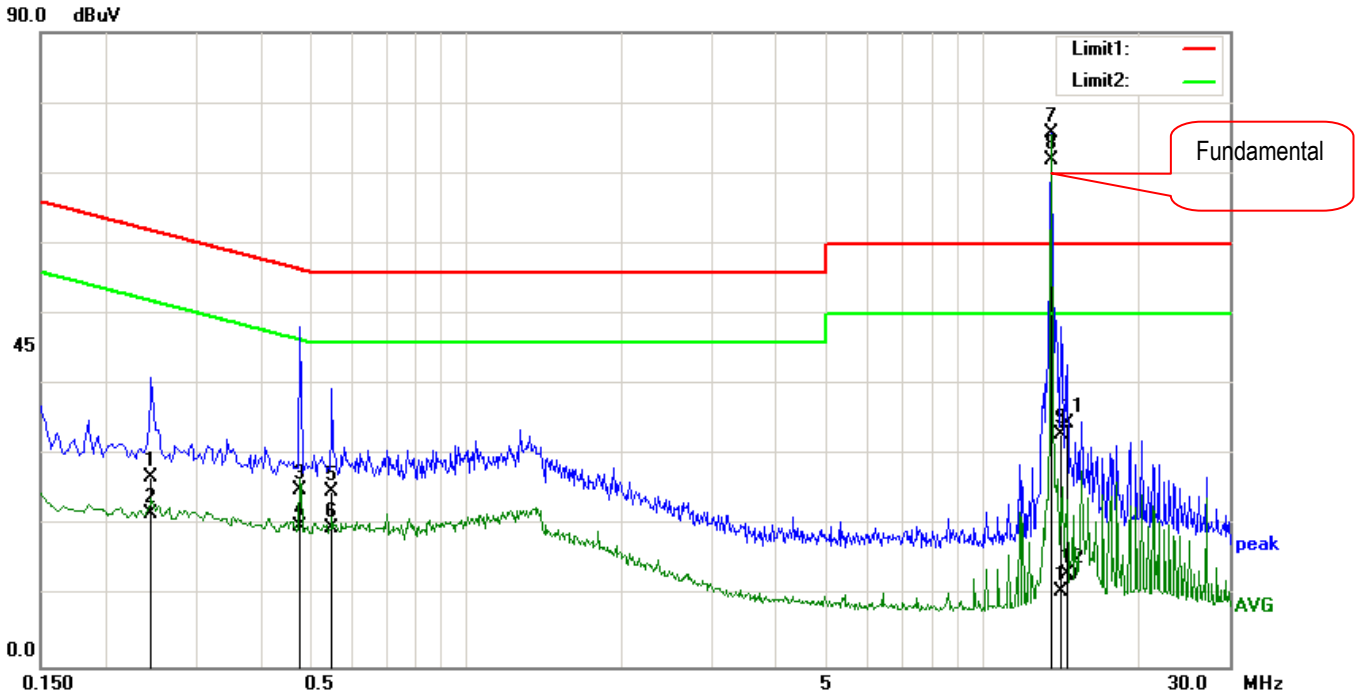
Result (dBμV) = Reading Value + Corrected Value

Limit (dBμV) = Limit stated in standard

Calculation Formula:

Margin (dB) = Result (dBμV) – limit (dBμV)

Test Mode:	Transmitting Mode

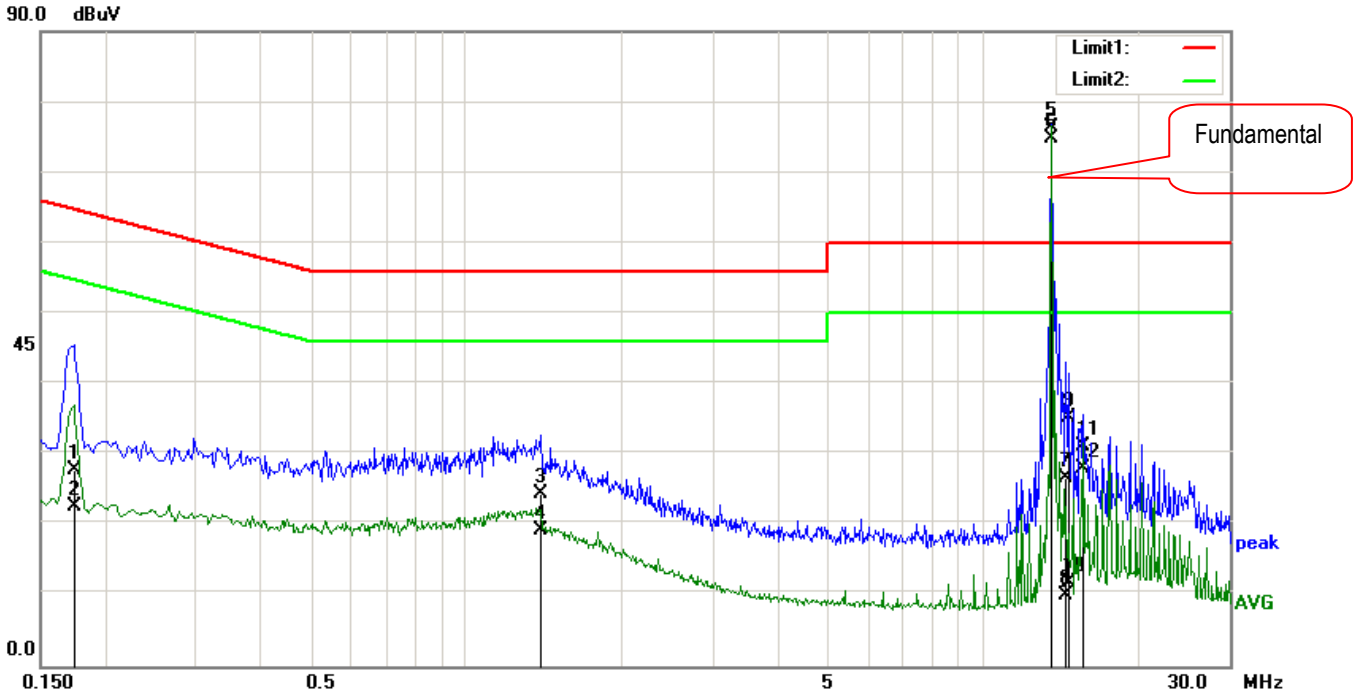


Test Data

Phase Line Plot at 120Vac, 60Hz

No.	Frequency	Reading	Detector	Lisn/Isn	Ps_Lmt	Cab_L	Result	Limit	Margin
	(MHz)	(dBµV)		(dB}	(dB)	(dB)	(dBµV)	(dBµV)	(dB)
1	0.2460	16.57	QP	0.10	-10.00	0.21	26.88	61.89	-35.01
2	0.2460	11.49	AVG	0.10	-10.00	0.21	21.80	51.89	-30.09
3	0.4780	14.69	QP	0.12	-10.00	0.21	25.02	56.37	-31.35
4	0.4780	9.52	AVG	0.12	-10.00	0.21	19.85	46.37	-26.52
5	0.5500	14.47	QP	0.12	-10.00	0.21	24.80	56.00	-31.20
6	0.5500	9.30	AVG	0.12	-10.00	0.21	19.63	46.00	-26.37
7	13.5620	64.47	QP	0.75	-10.00	0.48	75.70	60.00	15.70
8	13.5620	60.60	AVG	0.75	-10.00	0.48	71.83	50.00	21.83
9	14.1980	21.64	QP	0.80	-10.00	0.47	32.91	60.00	-27.09
10	14.1980	-0.64	AVG	0.80	-10.00	0.47	10.63	50.00	-39.37
11	14.5380	23.26	QP	0.83	-10.00	0.47	34.56	60.00	-25.44
12	14.5380	1.79	AVG	0.83	-10.00	0.47	13.09	50.00	-36.91

Test Mode:	Transmitting Mode



Test Data

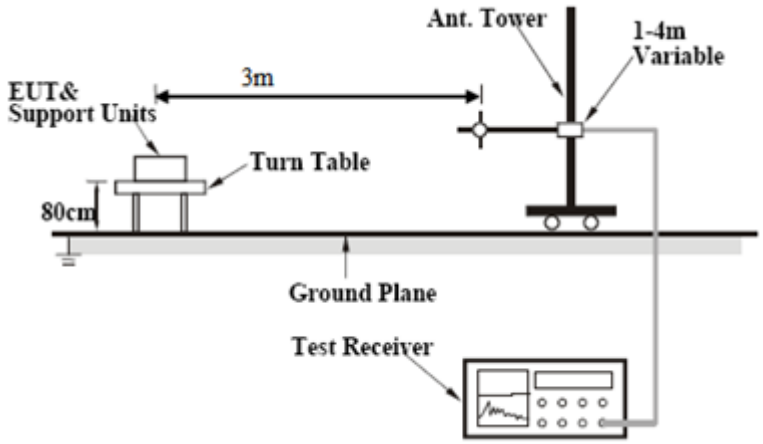
Phase Neutral Plot at 120Vac, 60Hz

No.	Frequency (MHz)	Reading (dBµV)	Detector	Lisn/Isn (dB}	Ps_Lmt (dB)	Cab_L (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)
1	0.1740	17.42	QP	0.11	-10.00	0.32	27.85	64.77	-36.92
2	0.1740	12.25	AVG	0.11	-10.00	0.32	22.68	54.77	-32.09
3	1.3900	14.00	QP	0.15	-10.00	0.20	24.35	56.00	-31.65
4	1.3900	8.85	AVG	0.15	-10.00	0.20	19.20	46.00	-26.80
5	13.5580	65.12	QP	0.83	-10.00	0.48	76.43	60.00	16.43
6	13.5580	63.45	AVG	0.83	-10.00	0.48	74.76	50.00	24.76
7	14.5140	15.33	QP	0.91	-10.00	0.47	26.71	60.00	-33.29
8	14.5140	-1.38	AVG	0.91	-10.00	0.47	10.00	50.00	-40.00
9	14.6180	23.78	QP	0.92	-10.00	0.47	35.17	60.00	-24.83
10	14.6180	0.32	AVG	0.92	-10.00	0.47	11.71	50.00	-38.29
11	15.7100	19.79	QP	0.99	-10.00	0.47	31.25	60.00	-28.75
12	15.7100	16.64	AVG	0.99	-10.00	0.47	28.10	50.00	-21.90

6.3 Fundamental Field Strength Test Result

Temperature	25°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
Test date :	July 10, 2017
Tested By :	Trety Lu

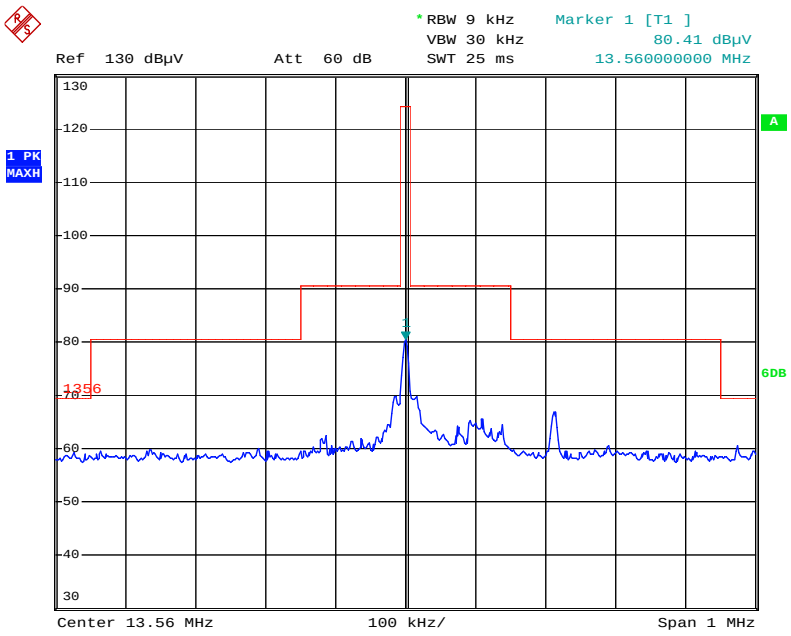
Requirement(s):

Spec	Item	Requirement	Applicable
§15.225(a) §15.225(b) §15.225(c)	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)	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)	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.	☐
Test Setup			
Test Procedure	1. The EUT was switched on and allowed to warm up to its normal operating condition. 2. The test was carried out at the selected frequency points obtained from the EUT characterisation. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner: a. Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen. b. The EUT was then rotated to the direction that gave the maximum emission. c. Finally, the antenna height was adjusted to the height that gave the maximum emission. 3. A peak measurement was then made for that frequency point. 4. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.		
Remark			
Result	☒Pass ☐Fail		

Test Data ☒Yes ☐N/A

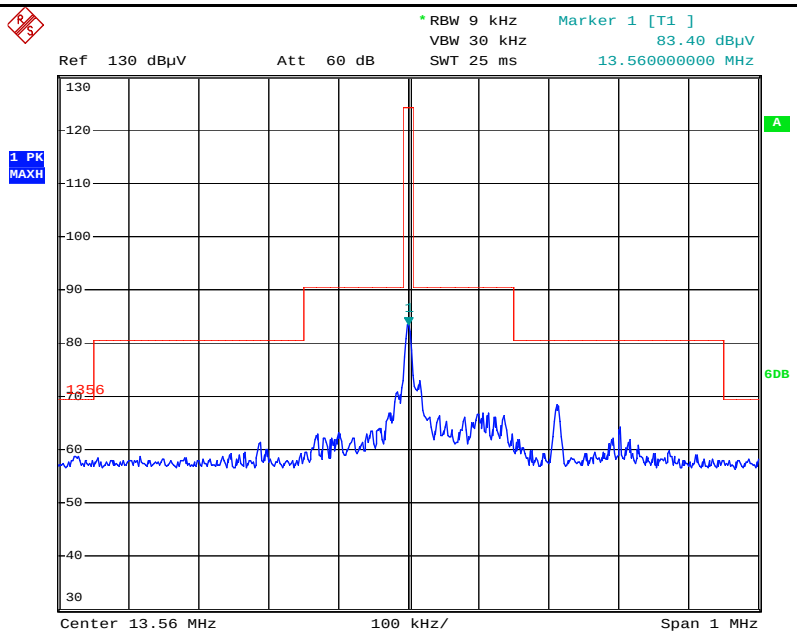
Test Plot ☒Yes ☐N/A

Test Plots
Fundamental Field Strength Measurement Result:



Date: 10.JUL.2017 16:51:34

Loop Antenna at 90 degree



Date: 10.JUL.2017 17:03:54

Loop Antenna at 0 degree

6.4 Radiated Spurious Emissions

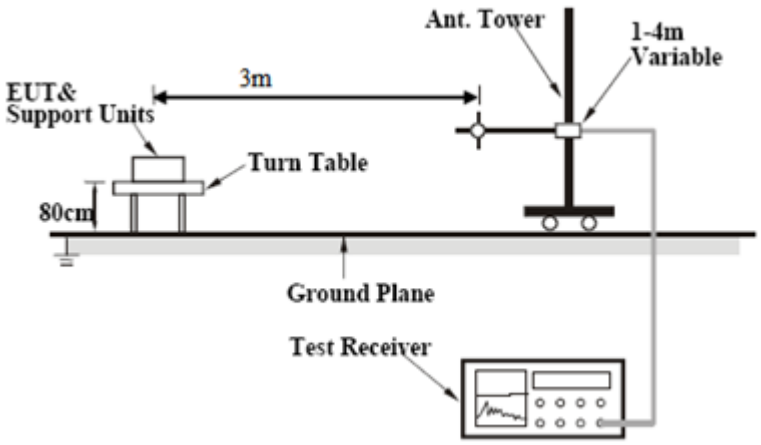
Temperature	25°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
Test date :	July 10, 2017
Tested By :	Trety Lu

Requirement(s):

Spec	Item	Requirement	Applicable
§15.225(d) , 15.209	a)	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.	☒

Fundamental frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-246	150**	3
216-960	200**	3
Above 960	500	3

Test Setup



Procedure

1. The EUT was switched on and allowed to warm up to its normal operating condition.
2. The test was carried out at the selected frequency points obtained from the EUT characterisation. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner:
   a. Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen.
   b. The EUT was then rotated to the direction that gave the maximum emission.
   c. Finally, the antenna height was adjusted to the height that gave the maximum emission.
3. A Quasi-peak measurement was then made for that frequency point.
4. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.

Remark

Result ☒Pass ☐Fail

Test Data ☒Yes ☐N/A

Test Plot ☒Yes ☐N/A

Data sample

No.	Frequency	Reading	Detector	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
	(MHz)	(dBμV/m)		(dB/m)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(cm)	(°)

Frequency (MHz) = Emission frequency in MHz

Reading (dBμV/m) = Receiver Reading Value

Detector= Peak Detector or Quasi Peak Detector

Ant_F=Antenna Factor

PA_G=Pre-Amplifier Gain

Cab_L=Cable Loss

Result (dBμV/m) = Read ing Value + Corrected Value

Limit (dBμV/m) = Limit stated in standard

Height (cm) = Height of Receiver antenna

Degree = Turn table degree

Calculation Formula:

Margin (dB) = Result (dBμV/m) – limit (dBμV/m)

Test Mode:	Transmitting

Loop Antenna at 0 degree:

@ 3M

Frequency	Peak (Corrected)	Factor	Height	Azimuth	Limits @ 3m	Margin
(MHz)	(dBµV/m)	(dB)	(cm)	(deg)	(dBµV/m)	(dB)
16.14	49.61	36.8	130	270	69.54	-19.93
14.63	55.78	38.7	150	135	69.54	-13.76
6.16	51.32	42.4	180	117	69.54	-18.22

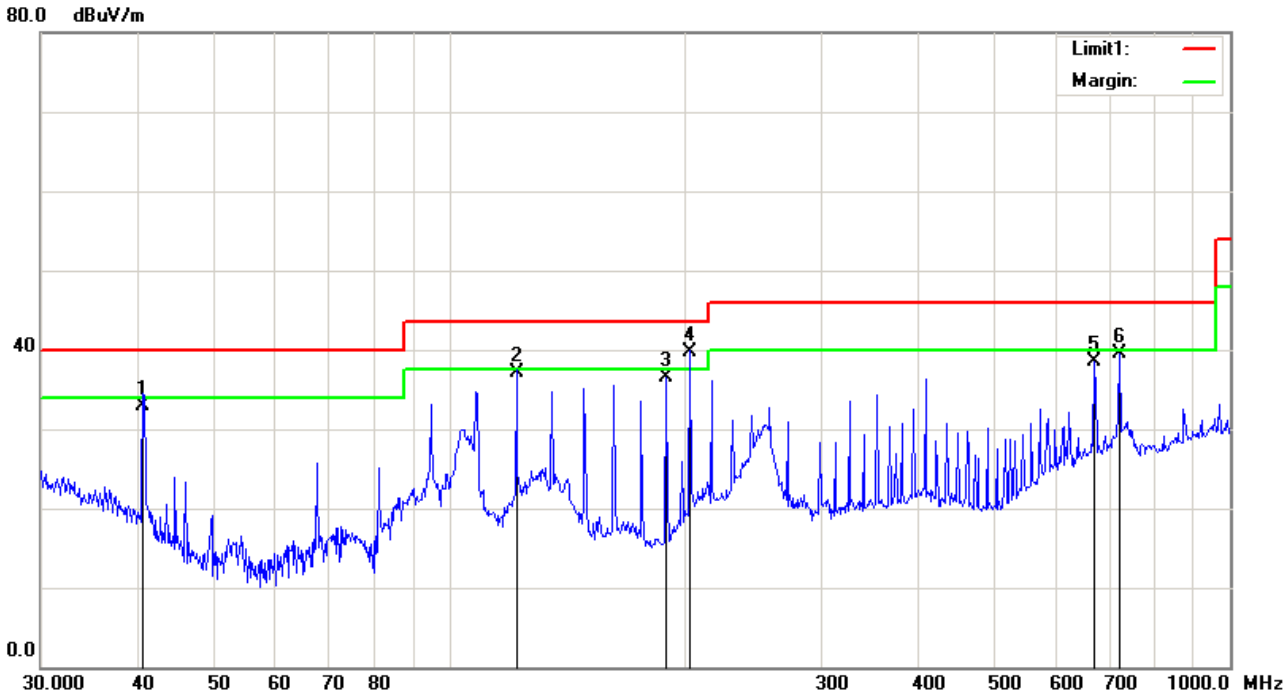
Loop Antenna at 90 degree:

@ 3M

Frequency	Peak (Corrected)	Factor	Height	Azimuth	Limits @ 3m	Margin
(MHz)	(dBµV/m)	(dB)	(cm)	(deg)	(dBµV/m)	(dB)
16.54	49.23	36.8	100	223	69.54	-20.31
4.13	53.16	45.7	200	214	69.54	-16.38
14.22	57.67	38.5	150	168	69.54	-11.87

Test Mode:	Transmitting Mode

Below 1GHz



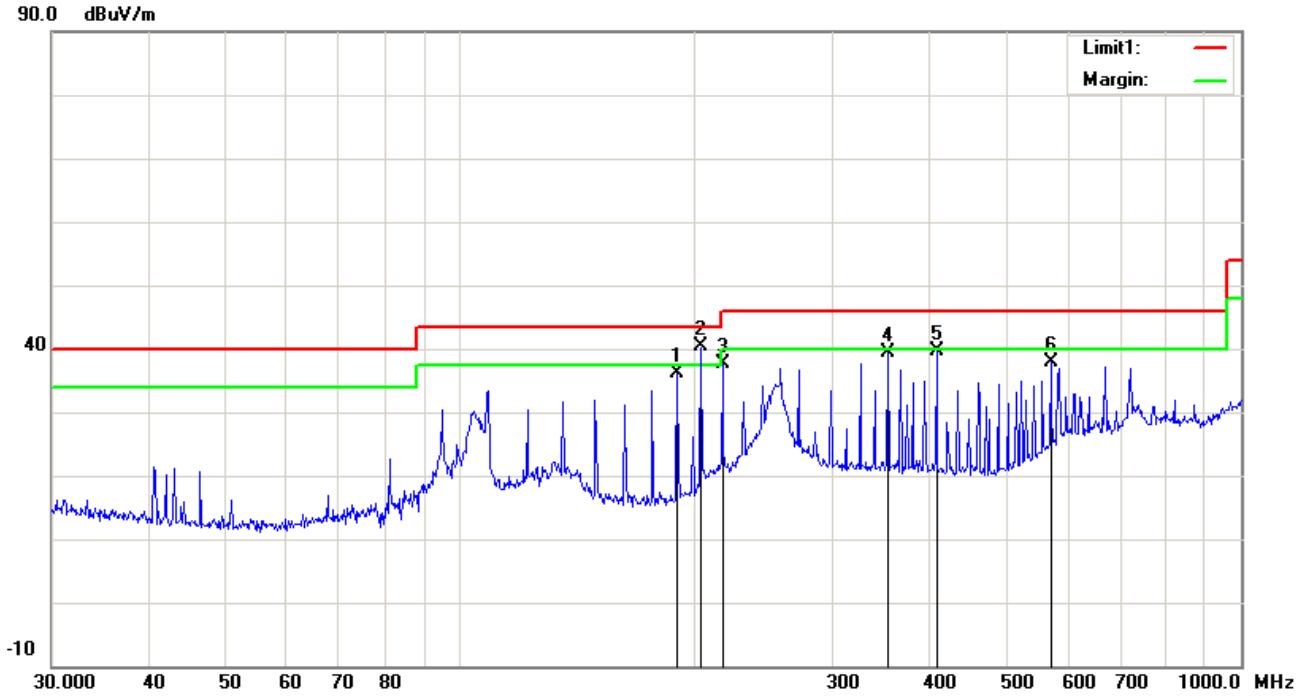
Test Data

Vertical Polarity Plot at 3m

No.	Frequency	Reading	Detector	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
	(MHz)	(dBµV/m)		(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(cm)	(°)
1	40.5591	62.20	QP	15.40	45.73	1.06	32.93	40.00	-7.07	100	45
2	121.9755	66.00	QP	15.94	46.71	1.80	37.03	43.50	-6.47	200	0
3	189.7385	68.47	peak	12.46	46.69	2.22	36.46	43.50	-7.04	200	360
4	203.5228	69.96	QP	14.85	47.42	2.27	39.66	43.50	-3.84	100	353
5	670.4893	60.27	peak	21.90	47.86	4.16	38.47	46.00	-7.53	100	97
6	721.7259	58.49	peak	22.36	45.71	4.31	39.45	46.00	-6.55	100	95

Test Mode:	Transmitting Mode

Below 1GHz



Horizontal Polarity Plot at 3m

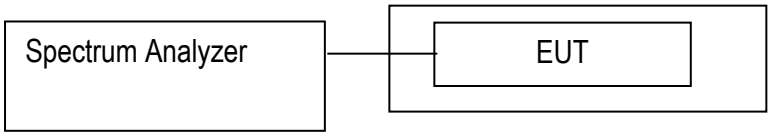
No.	Frequency (MHz)	Reading (dBµV/m)	Detector	Ant_F (dB/m)	PA_G (dB)	Cab_L (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Degree (°)
1	189.7385	67.74	peak	12.79	46.69	2.22	36.06	43.50	-7.44	200	281
2	203.5228	72.01	QP	13.51	47.42	2.27	40.37	43.50	-3.13	199	325
3	216.7828	69.00	peak	13.98	47.74	2.34	37.58	46.00	-8.42	200	179
4	352.9434	68.87	peak	16.42	48.81	3.01	39.49	46.00	-6.51	300	144
5	407.5145	69.24	peak	16.00	48.98	3.26	39.52	46.00	-6.48	300	215
6	570.6100	62.70	peak	19.71	48.43	3.82	37.80	46.00	-8.20	200	244

Note: The highest frequency of the internal sources of the EUT is less than 108MHz, so the measurement shall only be made up to 1GHz.

6.5 Frequency Stability

Temperature	25°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
Test date :	July 10, 2017
Tested By :	Trety Lu

Requirement(s):

Spec	Item	Requirement	Applicable
§15.225(e)	a)	The Frequency tolerance of the carrier signal shall be maintained within ±0.01% of the operating frequency over a temperature variation of -20°C to +50°C at normal supply voltage.	☒
	b)	The frequency of the transmitter was measured at 85% and at 115% of the rated power supply voltage at 20°C environmental temperature.	☒
Test Setup	 Temperature/Humidity Chamber		
Test Procedure	1> Place the de-energized EUT in an environmental temperature test chamber. Supply the EUT with nominal ac voltage, or install a new or fully charged battery in the EUT. An antenna should be connected to the antenna output connector of the EUT if possible. Use of a dummy load could affect the output frequency of the EUT. If the EUT is equipped with or uses an adjustable-length antenna, it should be fully extended. 2> Turn the EUT on, and couple its output to a frequency counter or other frequency-measuring device of sufficient accuracy, considering the frequency tolerance with which the EUT shall comply. 3> Turn the EUT off, and place it inside an environmental chamber set to the highest temperature specified by the procuring or regulatory agency. For devices that are normally operated continuously, the EUT may be energized while inside the test chamber. For devices that have oscillator heaters, energize only the heater circuit while the EUT is inside the chamber. 4> Allow sufficient time (approximately 30 minutes) for the temperature of the chamber to stabilize. While maintaining a constant temperature inside the environmental chamber, turn the EUT on and measure the EUT operating frequency at startup, and two, five, and ten minutes after startup. Four measurements in total are made. 5> If 13.1.1 requires measurements on only one operating frequency, proceed to step f); otherwise, successively tune the EUT to each of the additional operating frequencies specified in 13.1.1 and repeat step d). 6> Repeat step d) and step e) with the temperature chamber set to the lowest temperature specified by the procuring or regulatory agency. Be sure to allow the environmental chamber temperature to stabilize before performing these measurements.		

Remark	
Result	☒Pass ☐Fail

Test Data ☒Yes ☐N/A

Test Plot ☐Yes ☒N/A

Carrier Frequency: 13.56MHz at -20°C to +50°C, DC12V

Temperature (oC)	Measured Freq. (MHz)	Freq. Drift (Hz)	Freq. Deviation (Limit: 0.01%)	Pass/Fail
50	13.55950	500	< 0.01	Pass
40	13.55940	600	< 0.01	Pass
30	13.55930	700	< 0.01	Pass
20	Reference			
10	13.55960	400	< 0.01	Pass
0	13.55970	300	< 0.01	Pass
-10	13.55970	300	< 0.01	Pass
-20	13.55940	600	< 0.01	Pass

Carrier Frequency: 13.56MHz at 20°C at DC12V

Measured Voltage ±15% of nominal	Measured Freq. (MHz)	Freq. Drift (Hz)	Freq. Deviation (Limit: 0.01%)	Pass/Fail
10.2	13.55960	400	＜0.01	Pass
13.8	13.55990	100	＜0.01	Pass

6.6 20dB Occupied Bandwidth

Temperature	25°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
Test date :	July 12, 2016
Tested By :	Trety Lu

Requirement(s):

Spec	Item	Requirement	Applicable
§15.215(c)	a)	Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.	☒
Test Setup	Spectrum Analyzer — EUT		
Test Procedure	20dB Emission bandwidth measurement procedure - Set RBW = 300 Hz. - Set the video bandwidth (VBW) ≥ 3 ´ RBW. - Detector = Peak. - Trace mode = max hold. - Sweep = auto couple. - Allow the trace to stabilize. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.		
Remark			
Result	☒Pass ☐Fail		

Test Data ☒Yes ☐N/A

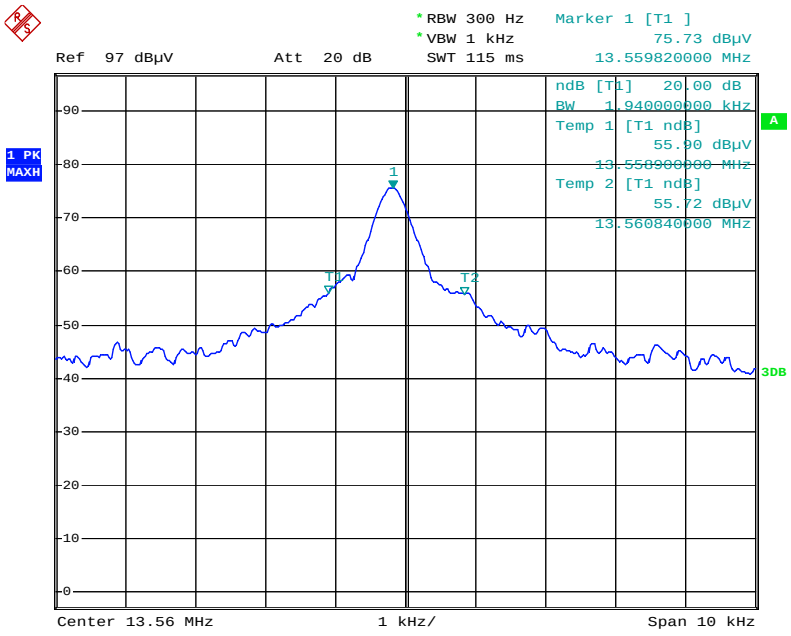
Test Plot ☒Yes ☐N/A

20dB Bandwidth measurement result

Frequency (MHz)	20dB BW (kHz)	Frequency range (MHz) F Low	Frequency range (MHz) F High	Test Result
13.55982	1.94	13.5589	13.56084	PASS

Test Plots

20dB Bandwidth measurement result



20dB Bandwidth

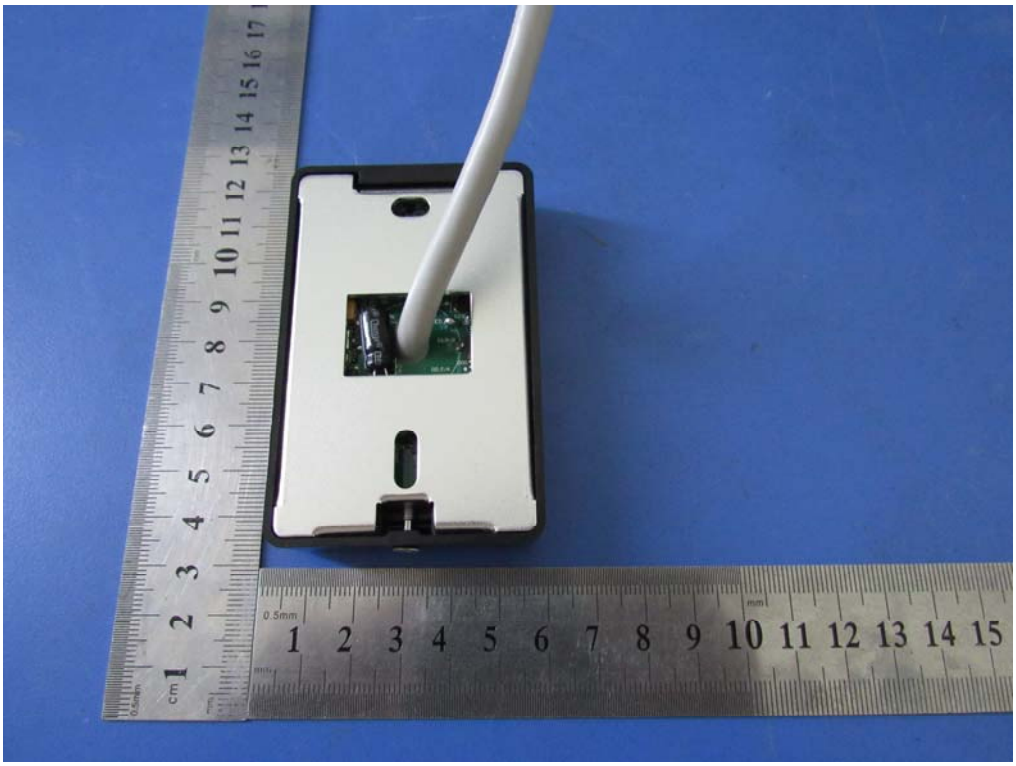
Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
Conducted Emissions					
R&S EMI Receiver	ESPI3	101216	05/03/2017	05/02/2018	☒
Power Splitter	1#	1#	02/02/2017	02/01/2018	☒
Temperature/Humidity Chamber	1007H	N/A	01/07/2017	01/06/2018	☒
SIEMIC EZ_EMC Conducted Emissions software	Ver.ICP-03A1	N/A	N/A	N/A	☒
Radiated Emissions					
R&S EMI Receiver	ESPI3	101216	05/03/2017	05/02/2018	☒
Antenna (30MHz~6GHz)	JB6	A121411	10/31/2016	10/31/2017	☒
EMCO Passive Loop Antenna	6509	9909-1469	10/09/2016	10/08/2017	☒
Hp Agilent Pre-Amplifier	8447F	1937A01160	10/27/2016	10/26/2017	☒
SIEMIC EZ_EMC Radiated Emissions software	Ver.ICP-03A1	N/A	N/A	N/A	☒

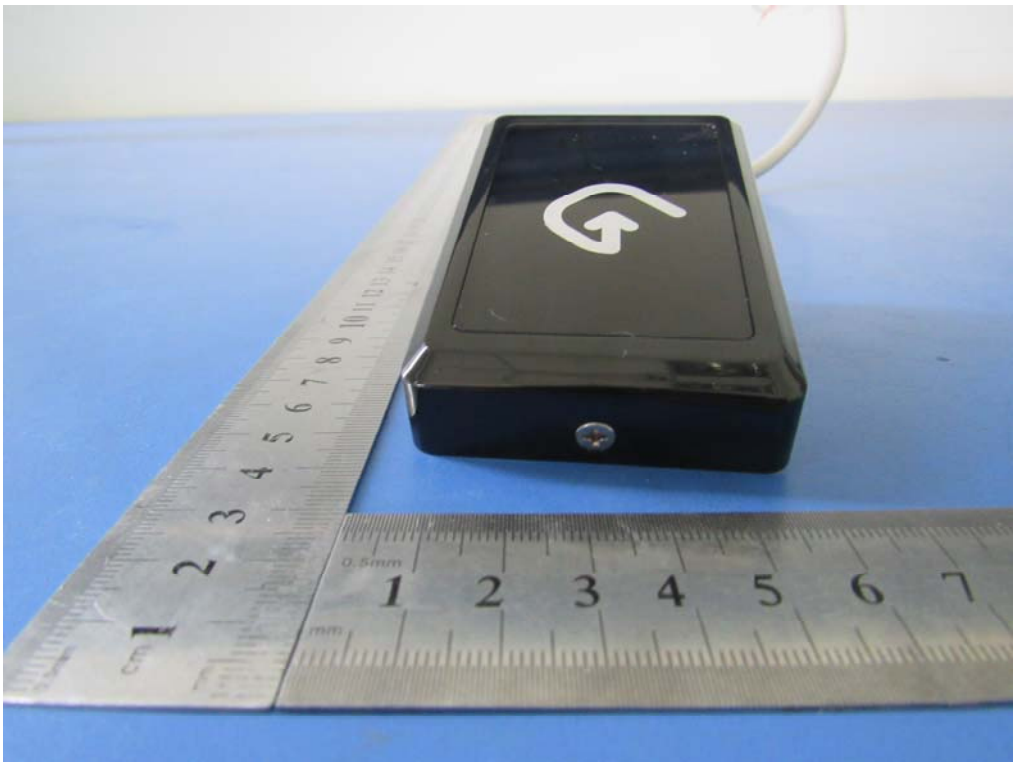
Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph EUT External Photo

Front View of EUT

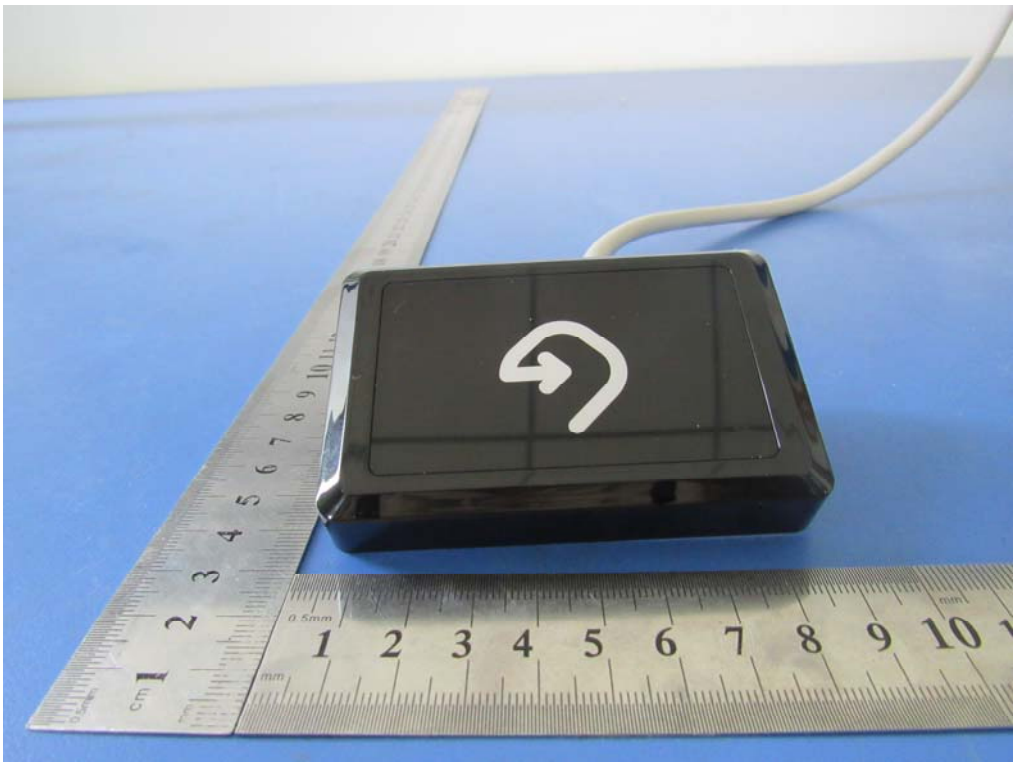


Rear View of EUT

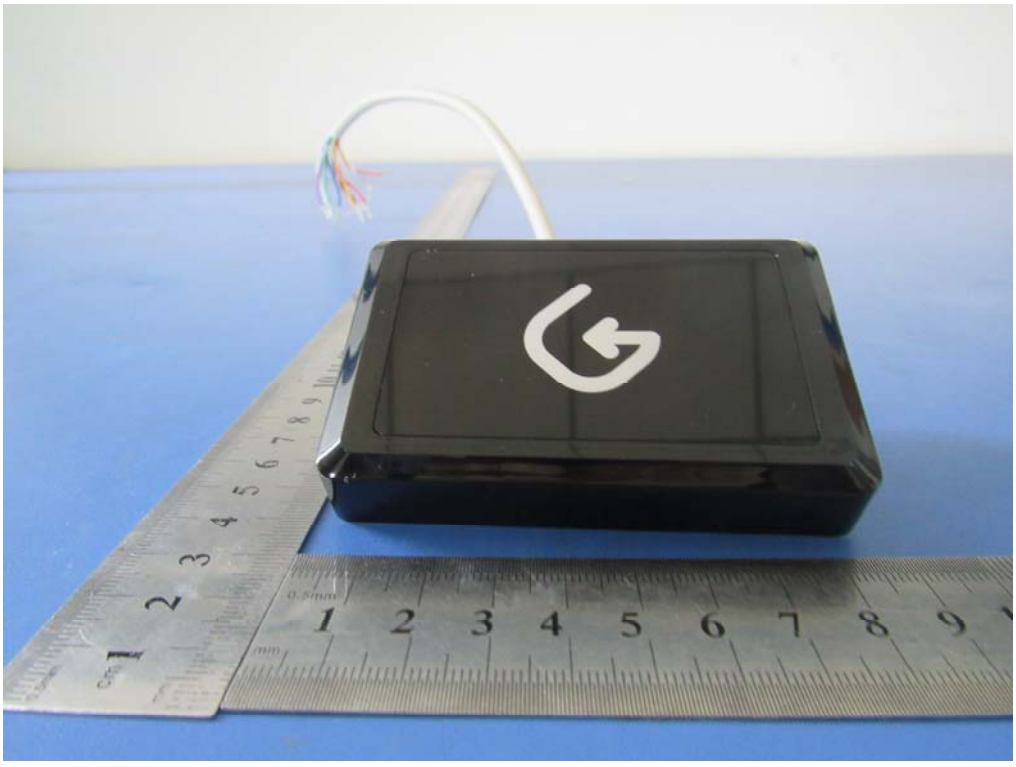


Top View of EUT

Bottom View of EUT



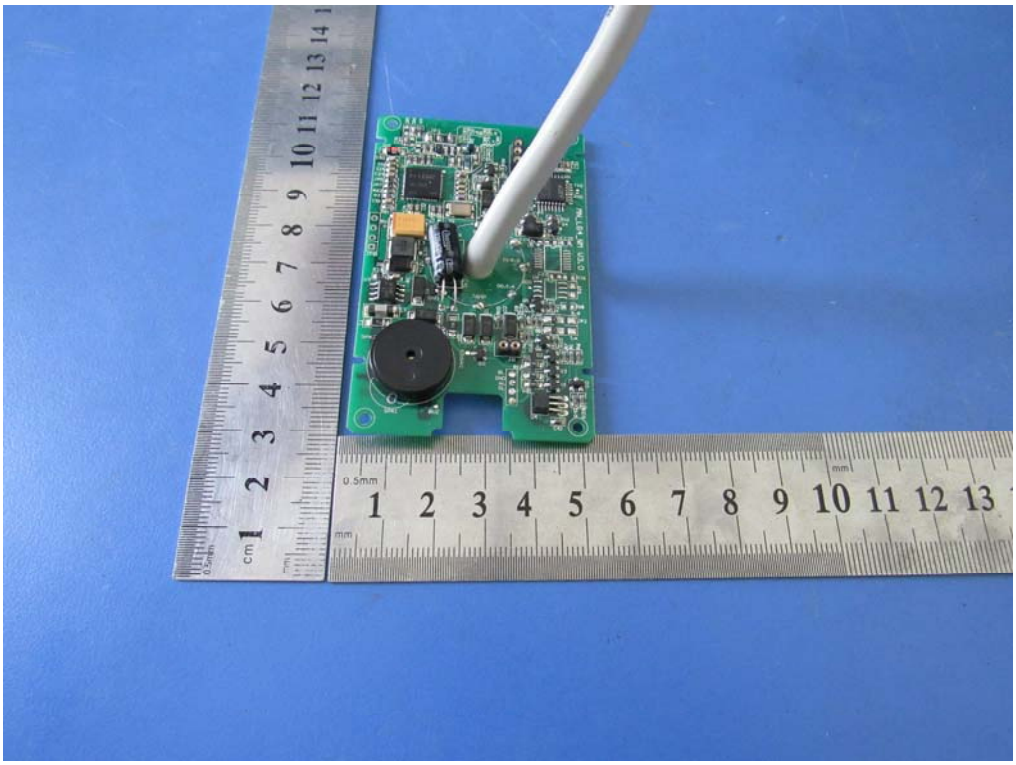
Left View of EUT



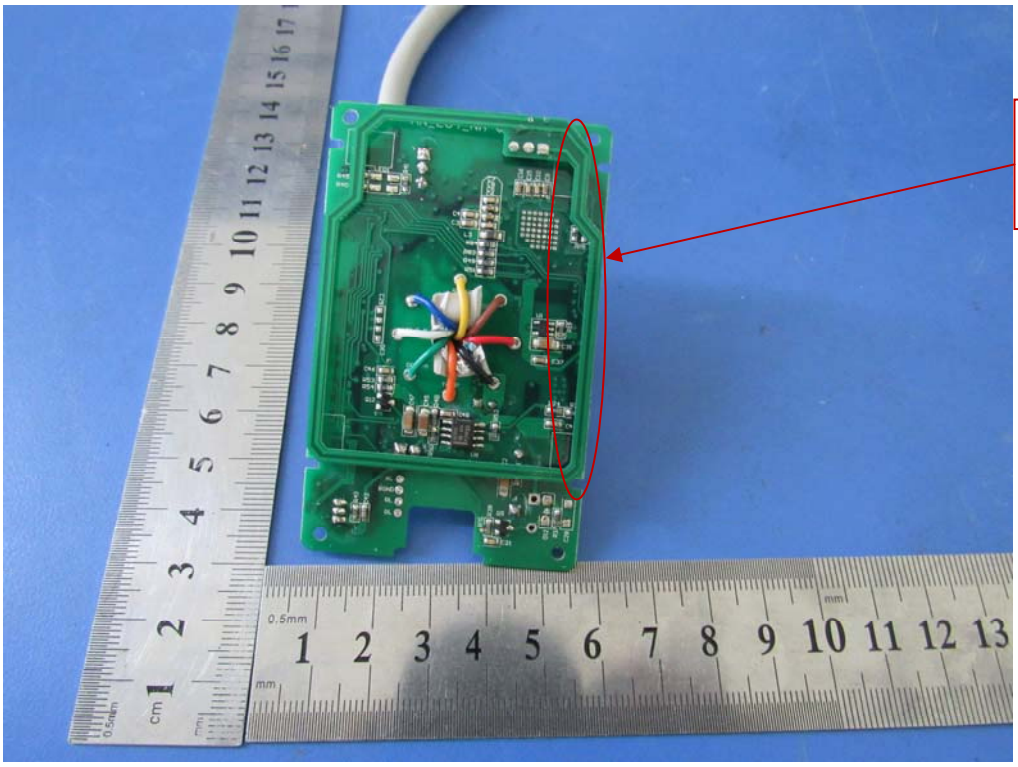
Right View of EUT

Annex B.ii. Photograph EUT Internal Photo

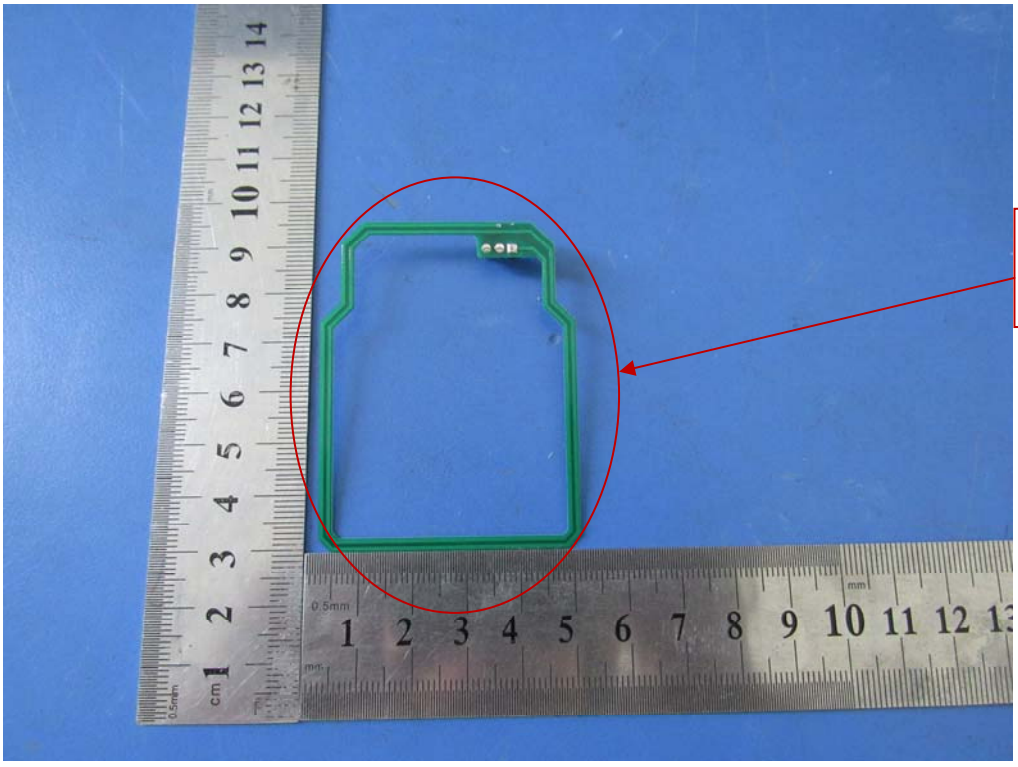
Uncover- Front View



EUT PCBA – Front View



EUT PCBA – Rear View

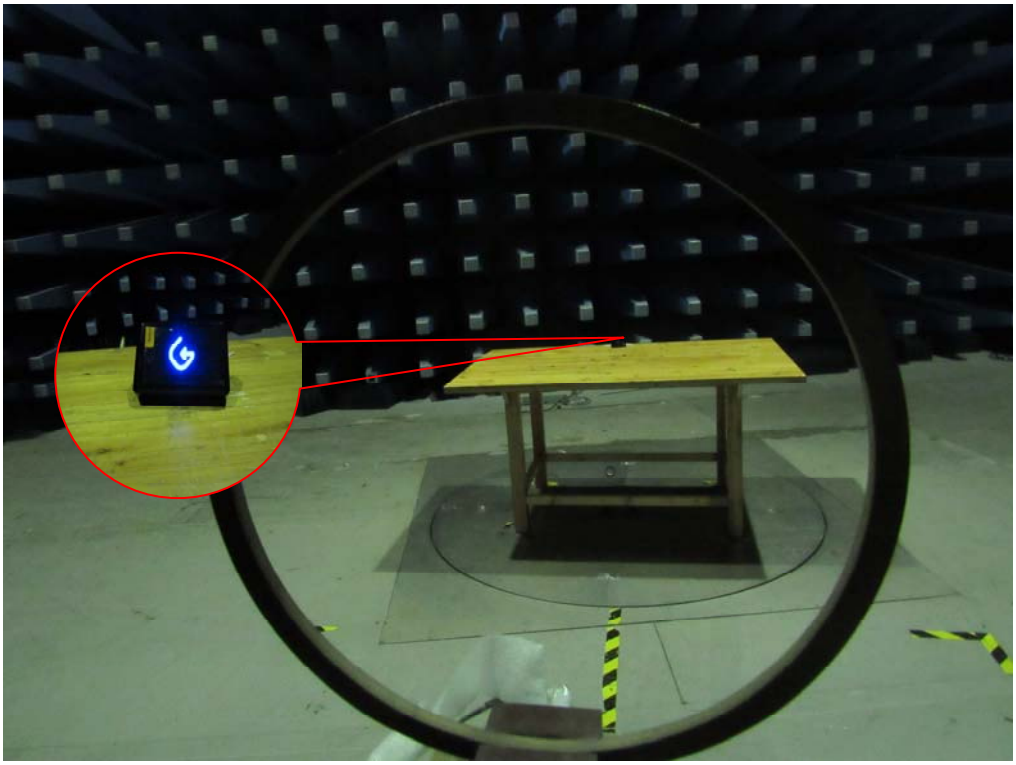


Antenna – Front View(13.56MHz)

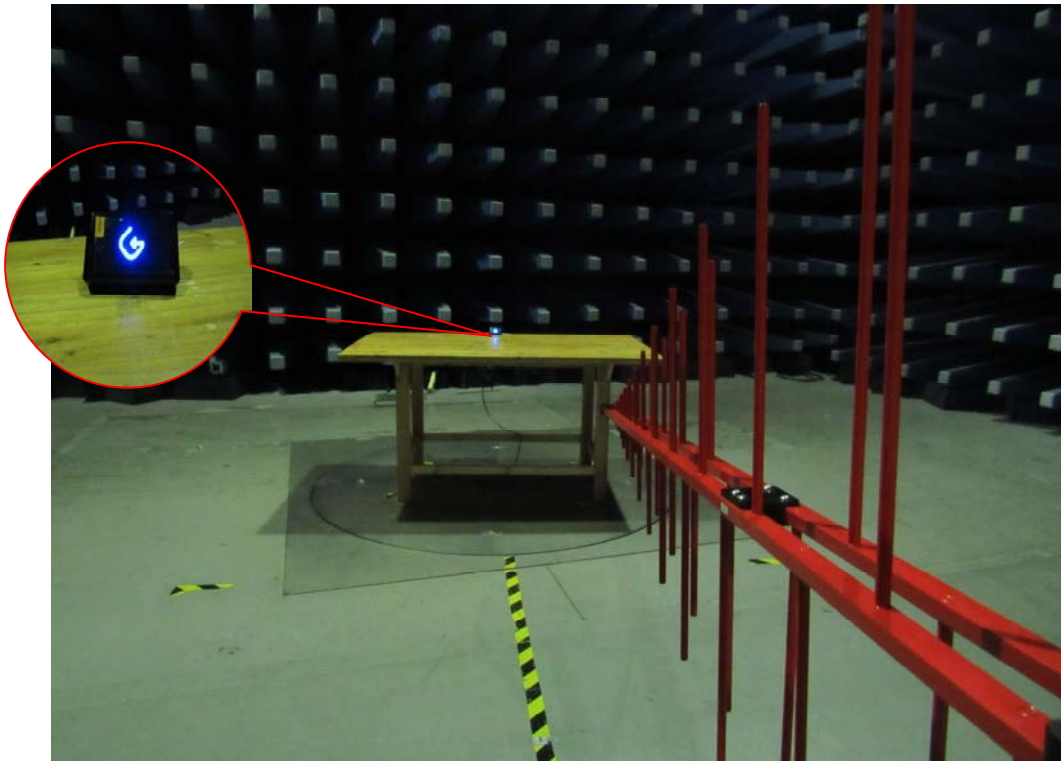
Annex B.iii. Photograph Test Setup Photo

Conducted Emissions Setup Front View

Conducted Emissions Setup Side View



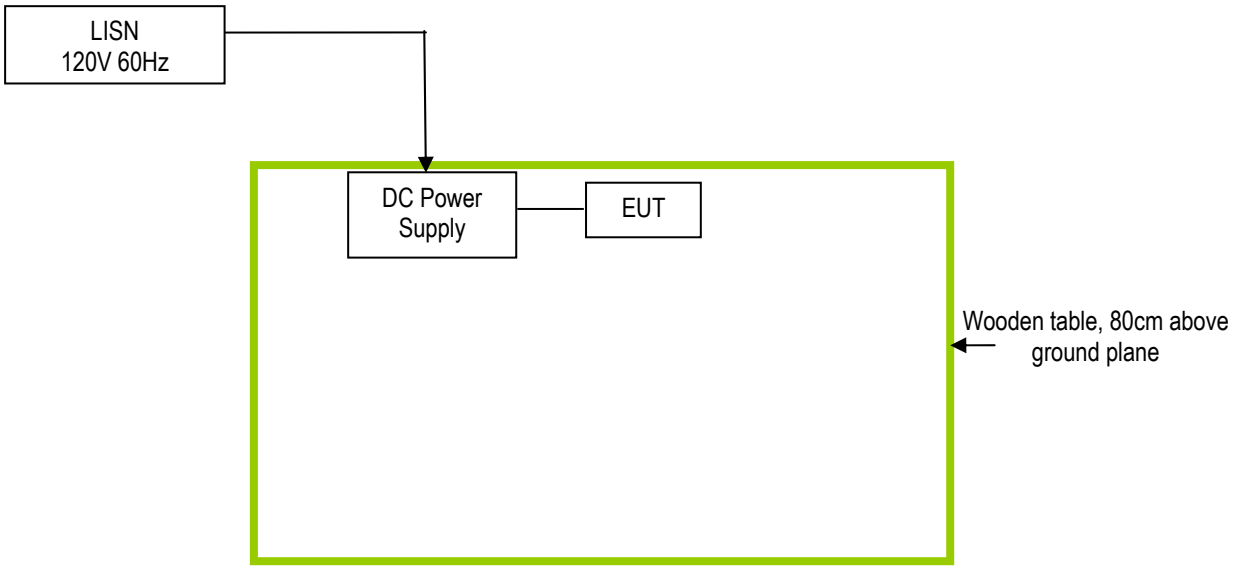
Front View of Radiated Emissions Test Setup below 30MHz



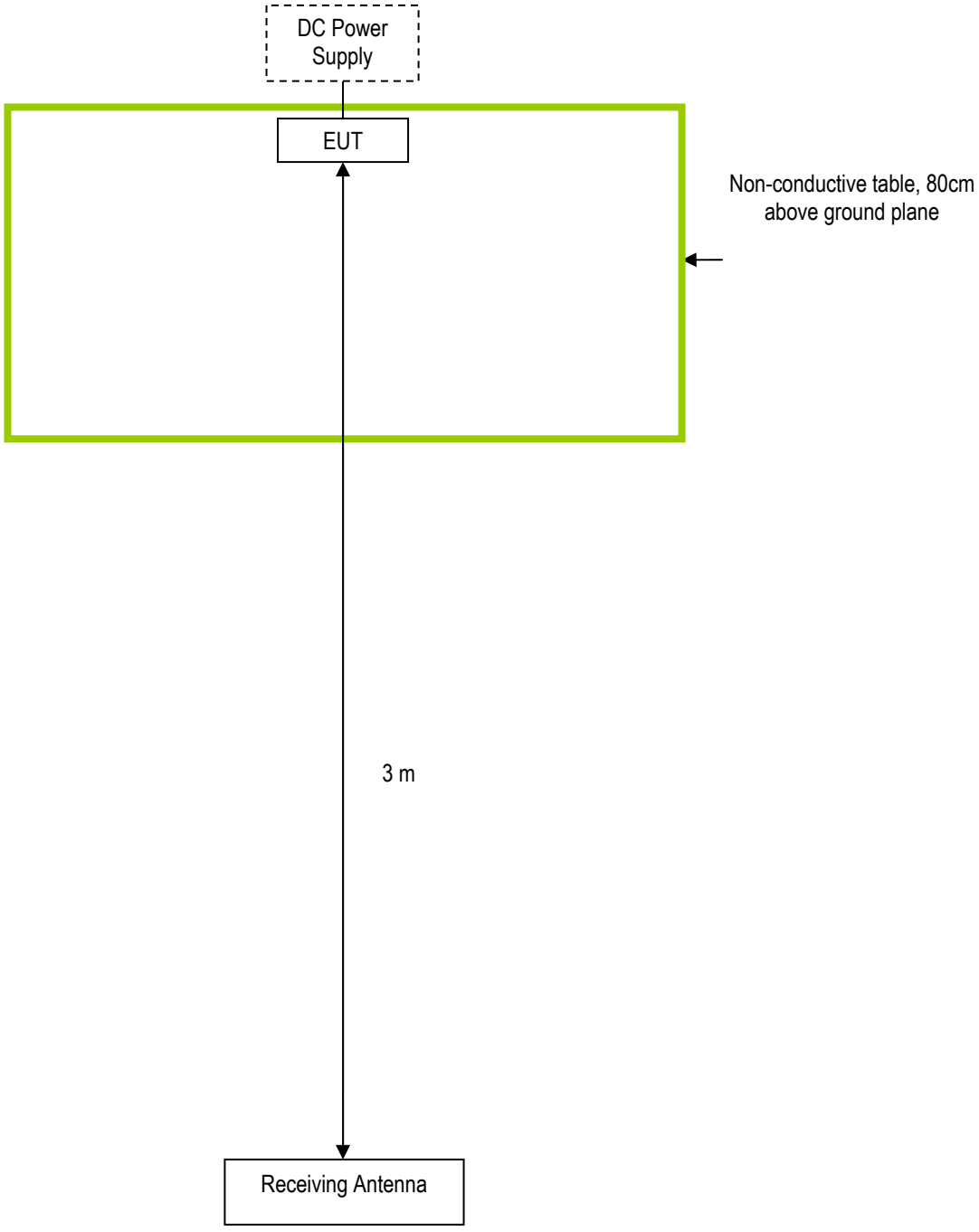
Front View of Radiated Emissions Test Setup (30MHz-1GHz)

Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.i. TEST SET UP BLOCK



Block Configuration Diagram for Radiated Emissions



Annex C. ii. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Manufacturer	Equipment Description	Model
BK PRECISION	DC Power Supply	1786B

Annex D. User Manual / Block Diagram / Schematics / Partlist

Please see attachment

Annex E. DECLARATION OF SIMILARITY

N/A