

RF TEST REPORT



Report No.: 17020980-FCC-R1
Supersede Report No.: N/A

Applicant	Shanghai Smarfid Security Equipment Co.,Ltd.	
Product Name	Remote Transmitter	
Main Model	REB3040	
Serial Model	N/A	
Test Standard	FCC Part 15.231: 2017, ANSI C63.10: 2013	
Test Date	March 14 to March 15, 2018	
Issue Date	March 16, 2018	
Test Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	
Equipment complied with the specification <input checked="" type="checkbox"/>		
Equipment did not comply with the specification <input type="checkbox"/>		
<i>Trety Lu</i>	<i>Deon Dai</i>	
Trety Lu Test Engineer	Engineer Reviewer	
This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only		

Issued by:
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Laboratories Introduction

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Accreditations for Conformity Assessment

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

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1. Report Revision History

Report No.	Report Version	Description	Issue Date
17020980-FCC-R1	NONE	Original	March 16, 2018

2. Customer information

Applicant Name	Shanghai Smarfid Security Equipment Co.,Ltd.
Applicant Add	No. 88, Lane 600, XinLi Road,Minhang District,Shanghai, 201615,China
Manufacturer Name	Shanghai Smarfid Security Equipment Co., Ltd.
Manufacturer Add	No. 88, Lane 600, XinLi Road,Minhang District,Shanghai, 201615,China

3. Test site information

Lab performing tests	SIEMIC (Nanjing-China) Laboratories
Lab Add	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:	Remote Transmitter
Main Model:	REB3040
Serial Model:	N/A
Date EUT received:	October 18, 2017
Test Date(s):	March 14 to March 15, 2018
Antenna Gain:	8dBi
Type of Modulation:	OOK
RF Operating Frequency (ies):	433.95MHz(Tx)
Number of Channels:	1 CH
Port:	N/A
Power:	DC6V
Trade Name:	N/A
FCC ID:	X3A-REB3040

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	Conducted Emissions Voltage	N/A*
§15.231(b)	Fundamental & Radiated Spurious Emission	Compliance
§15.231(c)	20dB Bandwidth	Compliance
§15.231(a)(1)	Deactivation	Compliance

Note: Preliminary radiated emission testing has been performed on X, Y, Z axis, only worst case test result is presented in this test report.

Measurement Uncertainty

Emissions		
Test Item	Description	Uncertainty
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)	3.92dB

N/A*: EUT is Power Supply by Battery

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.

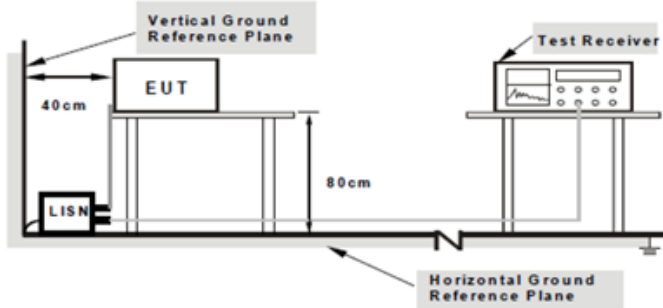
Result: Compliance.

6.2 AC Conducted Emissions Voltage

Temperature	-
Relative Humidity	-
Atmospheric Pressure	-
Test date :	-
Tested By :	-

Conducted Emission Limit

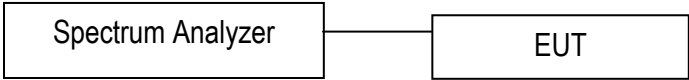
Frequency ranges (MHz)	Limit (dBμV)	
	QP	Average
0.15 ~ 0.5	66 – 56	56 – 46
0.5 ~ 5	56	46
5 ~ 30	60	50

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 [μ]H/50 ohms line impedance stabilization network (LISN). The lower limit applies at the boundary between the frequency ranges.	<input type="checkbox"/>
Test Setup	 <p>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.</p>		
Procedure	<ul style="list-style-type: none"> - 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	EUT is Power Supply by Battery		
Result	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> Fail		

6.3 20dB Occupied Bandwidth

Temperature	25°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
Test date :	March 15, 2018
Tested By :	Trety Lu

Requirement(s):

Spec	Item	Requirement	Applicable
§15.231(c)	a)	The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz.	<input checked="" type="checkbox"/>
	b)	For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency.	<input type="checkbox"/>
Test Setup			
Test Procedure	<p><u>20dB Emission bandwidth measurement procedure</u></p> <ul style="list-style-type: none"> - Set RBW = 30 kHz. - Set the video bandwidth (VBW) $\geq 3 \times$ RBW. - Detector = Peak. - Trace mode = max hold. - Sweep = auto couple. - Allow the trace to stabilize. <p>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.</p>		
Remark			
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail		

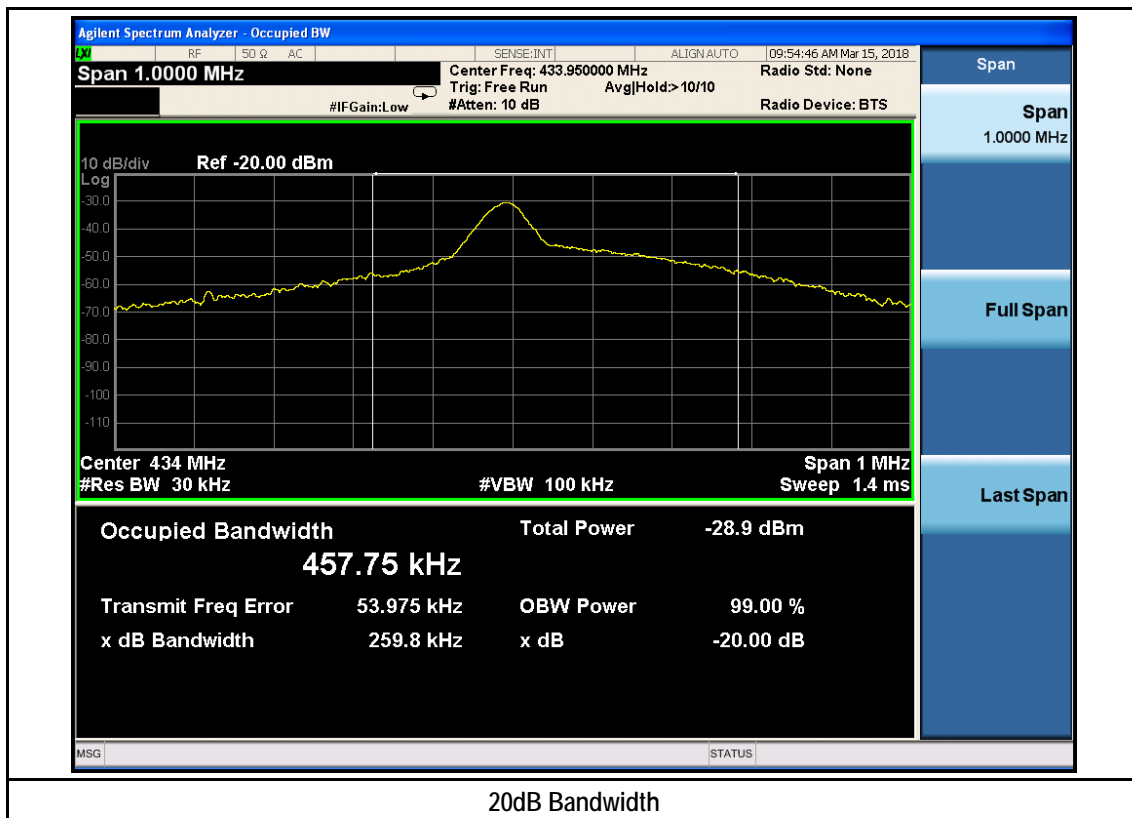
Test Data ☒Yes ☐N/A
 Test Plot ☒Yes ☐N/A

20dB Bandwidth measurement result

Type	Freq (MHz)	CH	Measured 20dB Bandwidth (kHz)	Limit (kHz)	Result
20dB BW	433.95	1 CH	259.8	1084.875	Pass

Test Plots

20dB Bandwidth measurement result



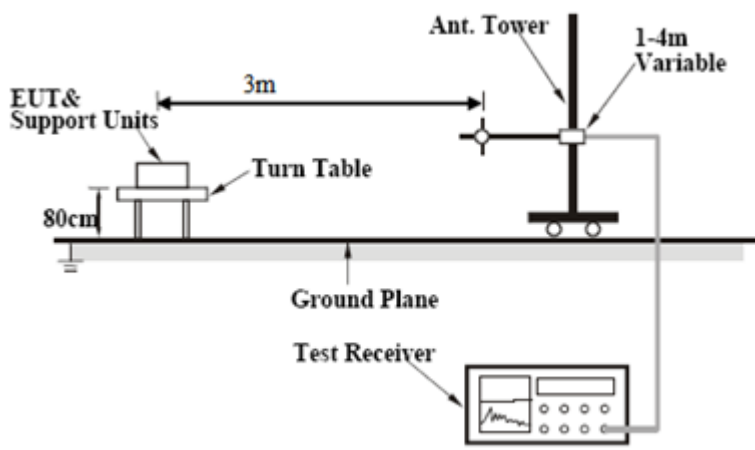
20dB Bandwidth

6.4 Radiated Fundamental and Spurious Emission

Temperature	25°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
Test date :	March 14 to March 15, 2018
Tested By :	Trety Lu

Requirement(s):

Spec	Item	Requirement	Applicable																					
§15.231(b)	a)	Except higher limit as specified elsewhere in other section, the emissions from the low-power radio-frequency devices shall not exceed the field strength levels specified in the following table and the level of any unwanted emissions shall not exceed the level of the fundamental emission. The tighter limit applies at the band edges	☒																					
		<table><thead><tr><th>Fundamental frequency (MHz)</th><th>Field strength of fundamental (microvolts/meter)</th><th>Field strength of spurious emissions (microvolts/meter)</th></tr></thead><tbody><tr><td>40.66-40.70</td><td>2250</td><td>225</td></tr><tr><td>70-130</td><td>1250</td><td>125</td></tr><tr><td>130-174</td><td>1250 to 3750</td><td>125 to 375</td></tr><tr><td>174-260</td><td>3750</td><td>375</td></tr><tr><td>260-470</td><td>3750-12500</td><td>375 to 1250</td></tr><tr><td>Above 470</td><td>12500</td><td>1250</td></tr></tbody></table>		Fundamental frequency (MHz)	Field strength of fundamental (microvolts/meter)	Field strength of spurious emissions (microvolts/meter)	40.66-40.70	2250	225	70-130	1250	125	130-174	1250 to 3750	125 to 375	174-260	3750	375	260-470	3750-12500	375 to 1250	Above 470	12500	1250
		Fundamental frequency (MHz)		Field strength of fundamental (microvolts/meter)	Field strength of spurious emissions (microvolts/meter)																			
		40.66-40.70		2250	225																			
		70-130		1250	125																			
		130-174		1250 to 3750	125 to 375																			
		174-260		3750	375																			
		260-470		3750-12500	375 to 1250																			
		Above 470		12500	1250																			
Note: All 3 axes have been investigated. Only worst case is presented in the test report.																								

Test Setup	<p>A: < 1GHz</p>  <p>B: >1GHz</p>
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Procedure	<ol style="list-style-type: none"> The EUT was switched on and allowed to warm up to its normal operating condition. 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: <ol style="list-style-type: none"> Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen. The EUT was then rotated to the direction that gave the maximum emission. Finally, the antenna height was adjusted to the height that gave the maximum emission. A Quasi-peak measurement was then made for that frequency point. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data ☒ Yes ☐ N/A

Test Plot ☒ Yes (See below) ☐ N/A

Data sample

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 (°)
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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) = Reading Value + Corrected Value

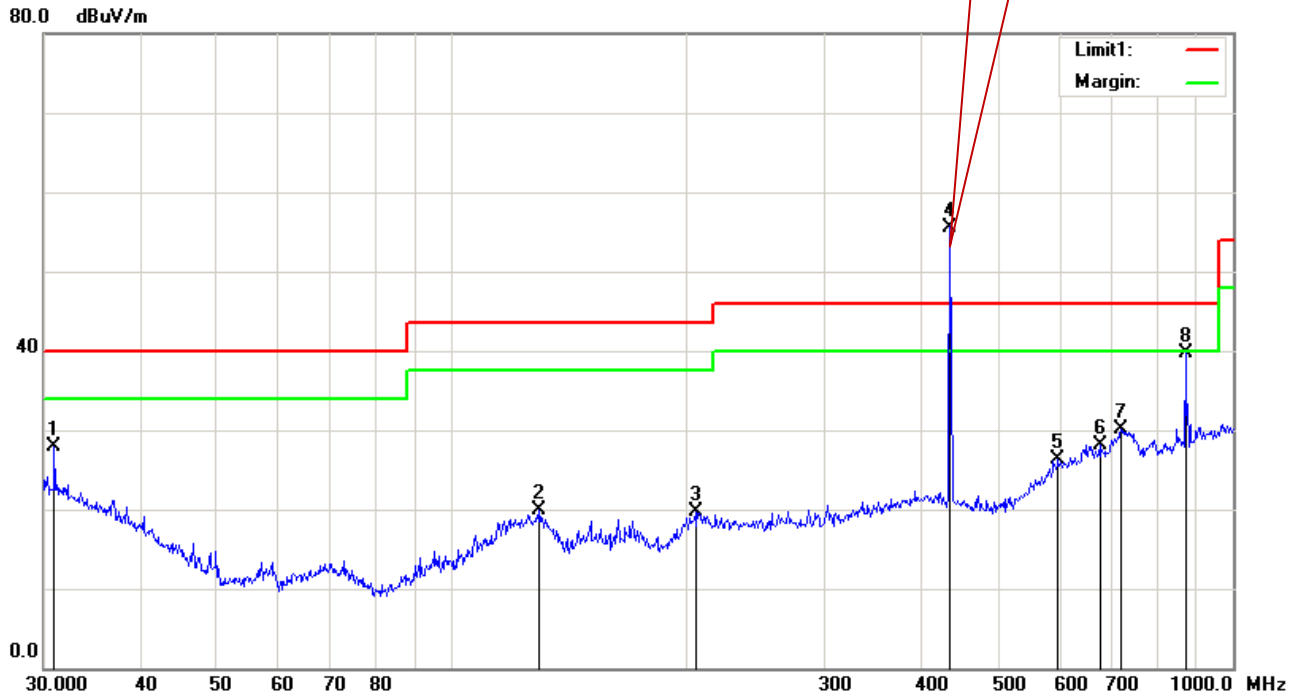
Limit (dBμV/m) = Limit stated in standard

Height (cm) = Height of Receiver antenna

Degree = Turn table degree

Calculation Formula:

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



Vertical Polarity Plot @3m

Field strength of fundamental Result

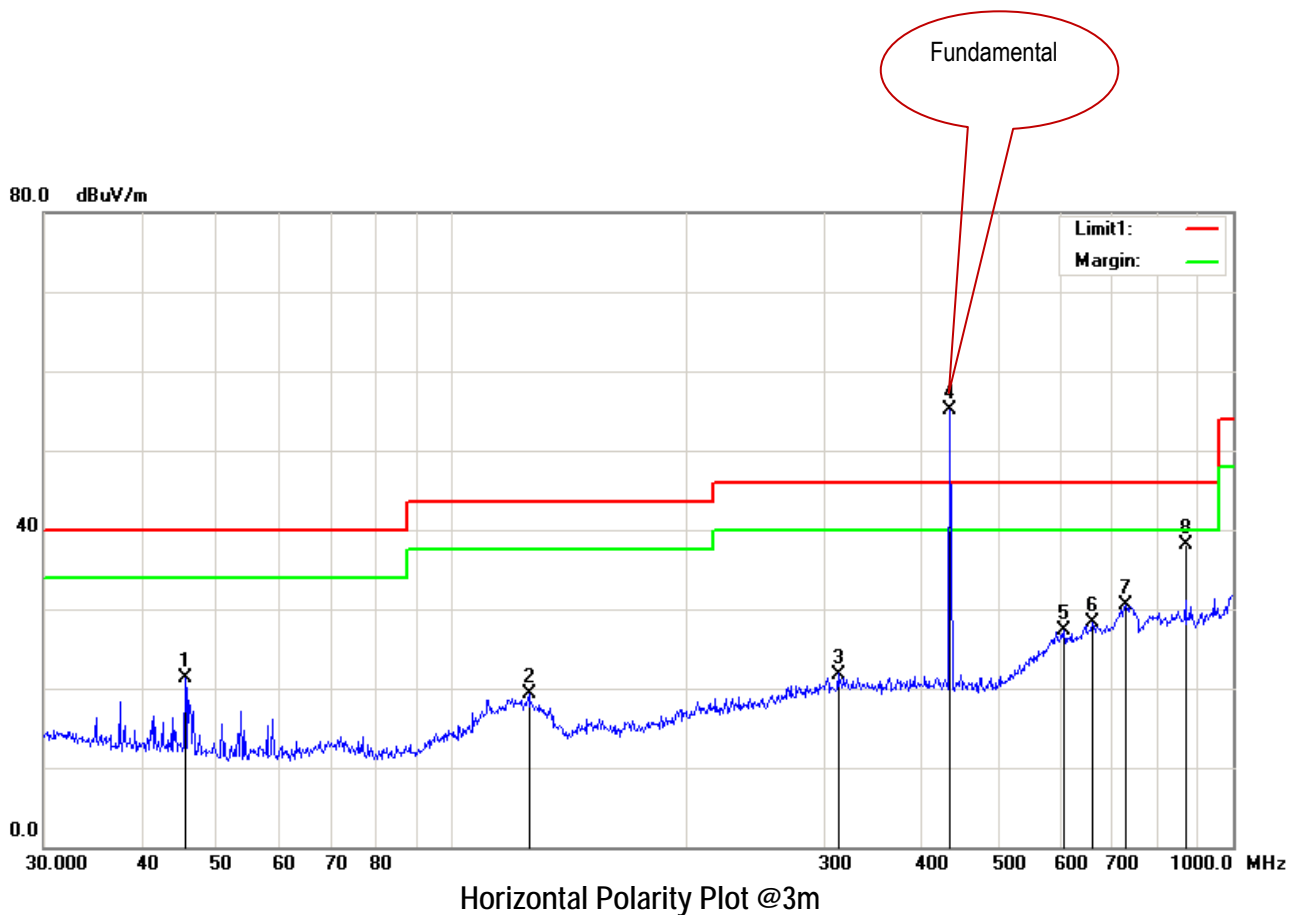
No.	Frequency (MHz)	Reading (dBμV/m)	Detector	Ant_F (dB/m)	PA_G (dB)	Cab_L (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (°)
4	433.95	84.95	Pk	16.43	49.13	3.35	55.60	100.83	-45.23	200	123
4	433.95	-	Ave	-	-	-	46.71	80.83	-34.12	-	-

Field strength of spurious emissions Result

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 (°)
8	867.9	58.18	peak	22.99	46.15	4.76	39.78	80.83	-41.05	100	102
8	867.9	-	Ave	-	-	-	30.89	60.83	-29.94	-	-

Notes: Duty cycle is 35.95%, 20log (duty cycle) = -8.89dB correction was used to determine the average level from the peak reading.

Average = peak reading + 20log (duty cycle), Final Average= peak reading-8.89dB



Field strength of fundamental Result

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 (°)
4	433.95	84.90	Pk	16.00	49.13	3.35	55.12	100.83	-45.71	100	198
4	433.95	-	Ave	-	-	-	46.23	80.83	-34.60	-	-

Field strength of spurious emissions Result

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 (°)
8	867.9	56.59	peak	22.79	46.12	4.76	38.02	80.83	-42.81	200	98
8	867.9	-	Ave	-	-	-	29.13	60.83	-31.70	-	-

Notes: Duty cycle is 35.95%, $20\log(\text{duty cycle}) = -8.89\text{dB}$ correction was used to determine the average level from the peak reading.
Average = peak reading + $20\log(\text{duty cycle})$, Final Average = peak reading - 8.89dB

Spurious Emissions (< 1GHz) Measurement Result

Vertical Polarity Plot @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	30.9619	51.75	peak	21.04	45.68	0.89	28.00	40.00	-12.00	100	283
2	129.4678	48.87	peak	16.34	47.26	1.86	19.81	43.50	-23.69	100	31
3	204.9551	49.95	peak	14.85	47.46	2.28	19.62	43.50	-23.88	200	182
5	597.2234	51.05	peak	20.12	48.69	3.92	26.40	46.00	-19.60	200	143
6	675.2080	49.31	peak	22.01	47.36	4.17	28.13	46.00	-17.87	100	251
7	719.1995	49.06	peak	22.39	45.75	4.31	30.01	46.00	-15.99	200	351

Horizontal Polarity Plot @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	45.5348	55.76	peak	10.36	46.06	1.16	21.22	40.00	-18.78	100	332
2	125.4457	48.68	peak	15.70	46.96	1.82	19.24	43.50	-24.26	100	223
3	312.1794	50.70	peak	16.79	48.52	2.83	21.80	46.00	-24.20	200	232
5	607.7867	49.96	peak	21.35	48.03	3.96	27.24	46.00	-18.76	200	314
6	661.1505	50.97	peak	21.96	48.84	4.12	28.21	46.00	-17.79	100	25
7	729.3583	49.03	peak	22.58	45.46	4.34	30.49	46.00	-15.51	200	265

Notes:

- Duty cycle is 35.95%, $20\log(\text{duty cycle}) = -8.89\text{dB}$ correction was used to determine the average level from the peak reading.
Average = peak reading + $20\log(\text{duty cycle})$, Final Average = peak reading - 8.89dB
- All the data measurement of peak values.
- FCC Limit for Average Measurement = $41.67 + (433.95\text{MHz} - 7083.3333) = 10999.3632\mu\text{V/m} = 80.83\text{dB}\mu\text{V/m}$
- Average pulsed signal over one complete pulse train or 100 ms time frame if pulse train exceeds 100 ms
- Maximum average in 100 ms
- Calculate duty cycle for pulse train or 100 ms
- Duty cycle = $(t_1 + t_2 + t_3 + \dots + t_n) / T$ where t_n = pulse width, T = pulse train length or 100 ms

Spurious Emissions (> 1GHz) Measurement Result

Frequency GHz	Reading (dBμV/m)	Direction Degree	Height Meter	Polar H/V	Ant_F (dB/M)	PA_G (dB)	Cab_L (dB)	correct (dBμV/m)	FCC 15.231 Limit (dBμV/m)	Margin	Comments
1.306	68.94	46	2.00	H	26.5	48.42	2.85	49.87	74.00	-24.13	Peak
1.306	-	-	-	H	-	-	-	40.98	54.00	-13.02	Ave
1.731	67.13	63	2.00	H	29.74	50.96	3.99	49.90	80.83	-30.93	Peak
1.731	-	-	-	H	-	-	-	41.01	60.83	-19.82	Ave
1.901	76.74	64	1.00	H	30.73	51.77	3.98	59.68	80.83	-21.15	Peak
1.901	-	-	-	H	-	-	-	50.79	60.83	-10.04	Ave
2.173	69.16	360	1.68	H	31.4	52.38	4.17	52.35	80.83	-28.48	Peak
2.173	-	-	-	H	-	-	-	43.46	60.83	-17.37	Ave
2.598	62.85	48	1.38	H	31.59	52.67	4.13	45.90	80.83	-34.93	Peak
2.598	-	-	-	H	-	-	-	37.01	60.83	-23.82	Ave
4.536	57.69	223	2.54	H	32.58	52.14	5.96	44.09	74.00	-29.91	Peak
4.536	-	-	-	H	-	-	-	35.20	54.00	-18.80	Ave
1.306	70.39	305	2.00	V	26.5	48.42	2.85	51.32	74.00	-22.68	Peak
1.306	-	-	-	V	-	-	-	42.43	54.00	-11.57	Ave
1.765	70.63	360	1.00	V	29.94	51.12	4.01	53.46	80.83	-27.37	Peak
1.765	-	-	-	V	-	-	-	44.57	60.83	-16.26	Ave
1.901	77.36	259	2.00	V	30.73	51.77	3.98	60.3	80.83	-20.53	Peak
1.901	-	-	-	V	-	-	-	51.41	60.83	-9.42	Ave
2.173	69.76	289	2.00	V	31.4	52.38	4.17	52.95	80.83	-27.88	Peak
2.173	-	-	-	V	-	-	-	44.06	60.83	-16.77	Ave
3.04	63.42	312	2.00	V	31.55	52.82	4.5	46.65	80.83	-34.18	Peak
3.04	-	-	-	V	-	-	-	39.12	60.83	-21.71	Ave
4.179	58.76	155	2.00	V	31.79	52.62	6.09	44.02	80.83	-36.81	Peak
4.179	-	-	-	V	-	-	-	35.13	60.83	-25.70	Ave

Note: Duty cycle is 35.95%, $20\log(\text{duty cycle}) = -8.89\text{dB}$ correction was used to determine the average level from the peak reading.
Average = peak reading + $20\log(\text{duty cycle})$, final Average= peak reading -8.89dB

Note:

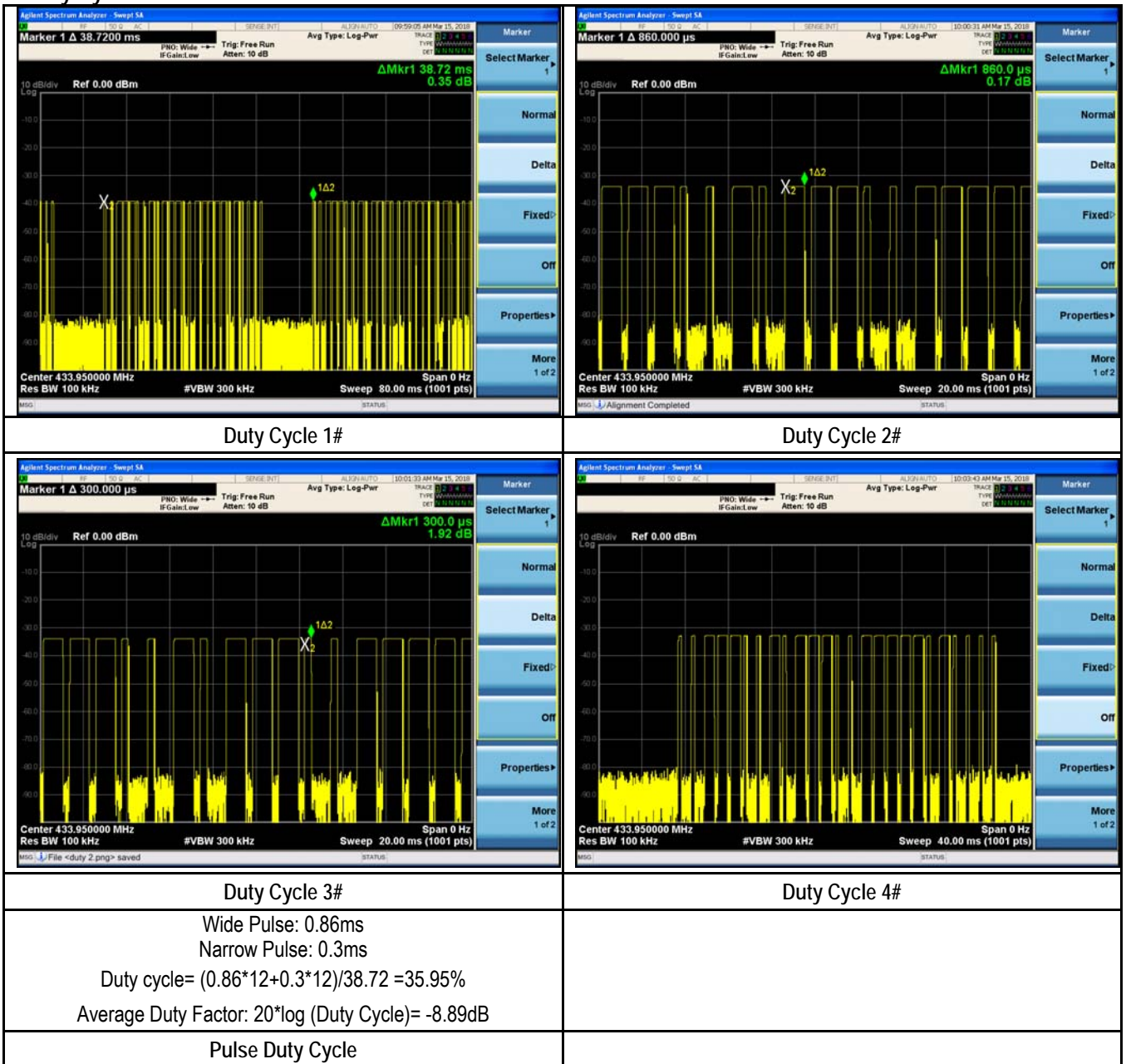
Narrow Pulse: 0.3ms

$2/NP = 2/0.3\text{ms} = 6.67\text{kHz}$

RBW > 2/NP (6.67kHz)

Therefore PDCF is not needed.

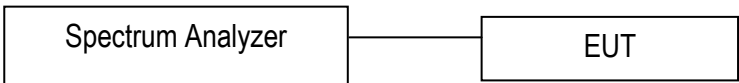
Duty Cycle Measurement Result



6.5 Deactivation

Temperature	25°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
Test date :	March 15, 2018
Tested By :	Trety Lu

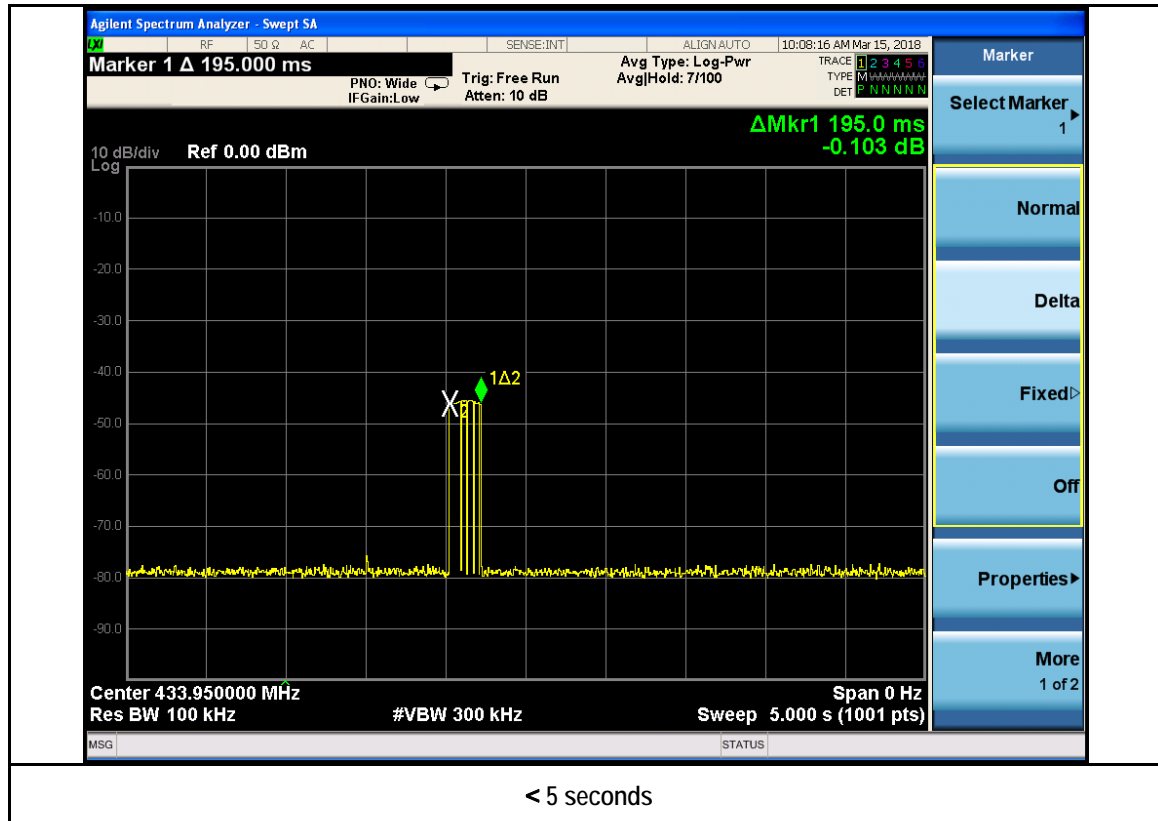
Requirement(s):

Spec	Item	Requirement	Applicable
§15.231 (a)(1)	a)	A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.	<input checked="" type="checkbox"/>
Test Setup			
Test Procedure	<u>measurement procedure</u> <ul style="list-style-type: none"> - Set analyzer center frequency to channel center frequency. - Set the span to 0Hz. - Set the RBW=100KHz - Set the VBW $\geq 3 \times$ RBW. - Detector = peak. - Sweep time = auto couple. - Trace mode = max hold. - Allow trace to fully stabilize. 		
Remark			
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail		

Test Data ☐ Yes ☒ N/A
 Test Plot ☒ Yes (See below) ☐ N/A

Test Plots

Deactivation Measurement Result



Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
AC Line Conducted Emissions					
R&S EMI Test Receiver	ESPI3	101216	05/03/2017	05/02/2018	<input type="checkbox"/>
V-LISN	ESH3-Z5	838979/005	05/03/2017	05/02/2018	<input type="checkbox"/>
SIEMIC EZ_EMC software Conducted Emissions	Ver.ICP-03A1	N/A	N/A	N/A	<input type="checkbox"/>
RF conducted test					
Agilent Technologies Spectrum Analyzer	N9010A	MY47191130	05/03/2017	05/02/2018	<input checked="" type="checkbox"/>
Temperature/Humidity Chamber	1007H	N/A	01/07/2018	01/06/2019	<input checked="" type="checkbox"/>
Radiated Emissions					
Agilent Technologies Spectrum Analyzer	N9010A	MY47191130	05/03/2017	05/02/2018	<input checked="" type="checkbox"/>
R&S EMI Receiver	ESPI3	101216	05/03/2017	05/02/2018	<input checked="" type="checkbox"/>
Antenna (30MHz~6GHz)	JB6	A121411	10/31/2017	10/31/2018	<input checked="" type="checkbox"/>
EMCO Horn Antenna (1 ~18GHz)	3115	N/A	10/09/2017	10/08/2018	<input checked="" type="checkbox"/>
Hp Agilent Pre-Amplifier	8447F	1937A01160	10/27/2017	10/26/2018	<input checked="" type="checkbox"/>
Pre-Amplifier	8449B	3008A02224	10/30/2017	10/30/2018	<input checked="" type="checkbox"/>
SIEMIC EZ_EMC software Radiated Emissions	Ver.ICP-03A1	N/A	N/A	N/A	<input checked="" type="checkbox"/>

Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photos



Top View of EUT



Bottom View of EUT



Front View of EUT



Rear View of EUT



Left View of EUT

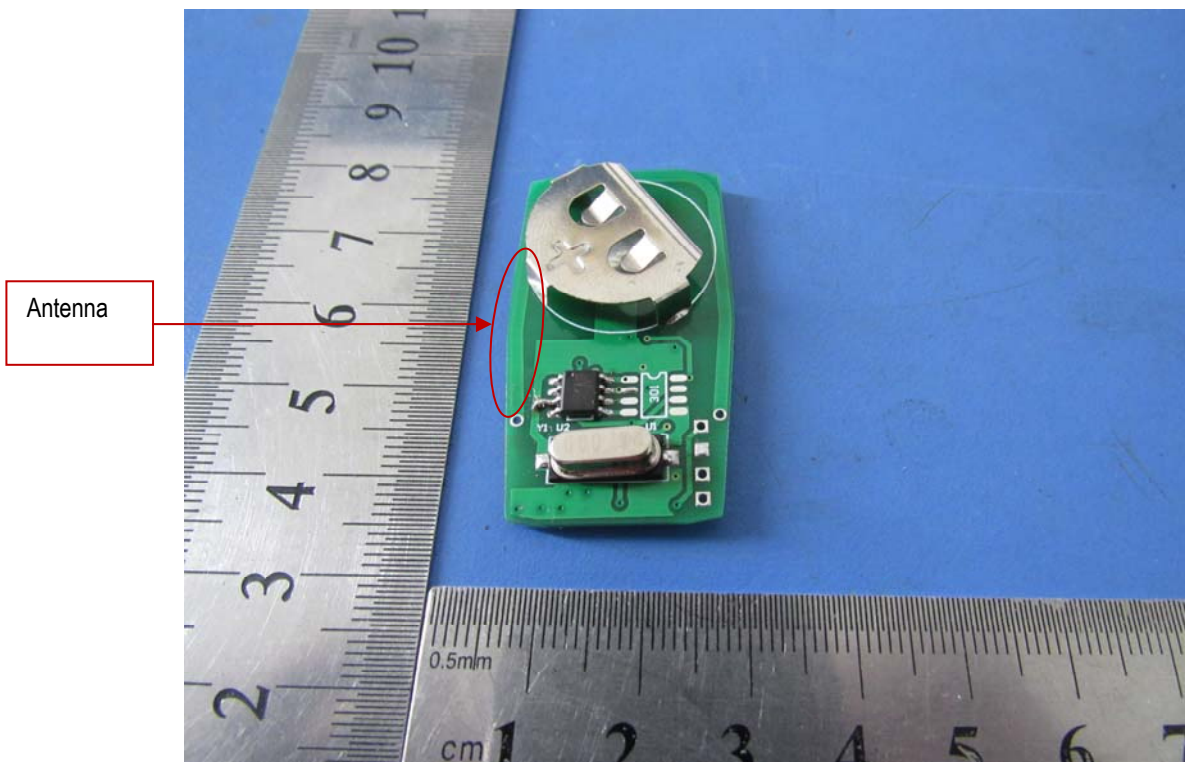


Right View of EUT

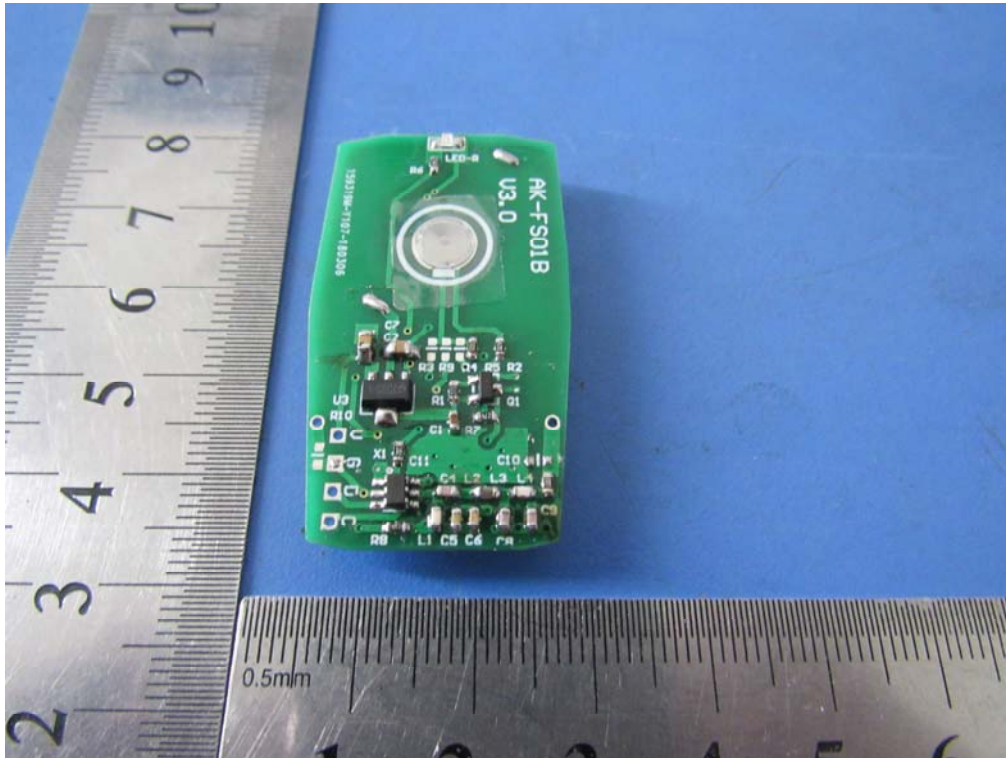
Annex B.ii. Photograph EUT Internal Photos



EUT Uncover– Front View

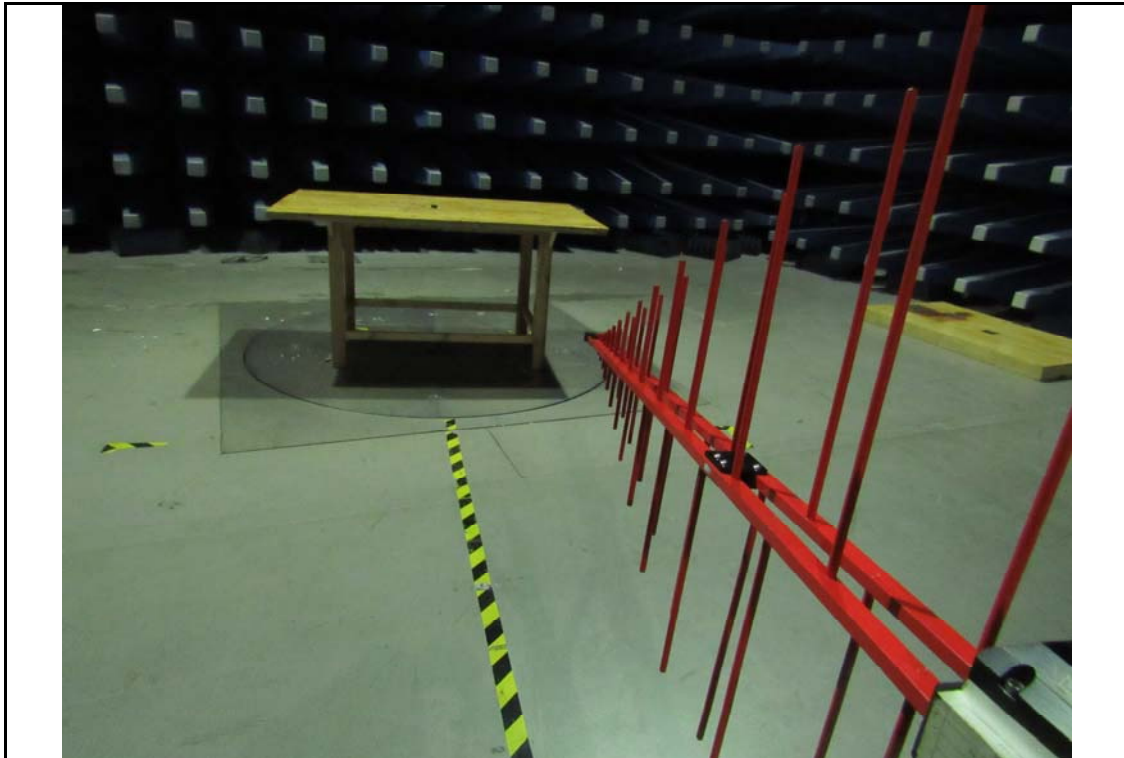


EUT PCBA – Front View



EUT PCBA – Rear View

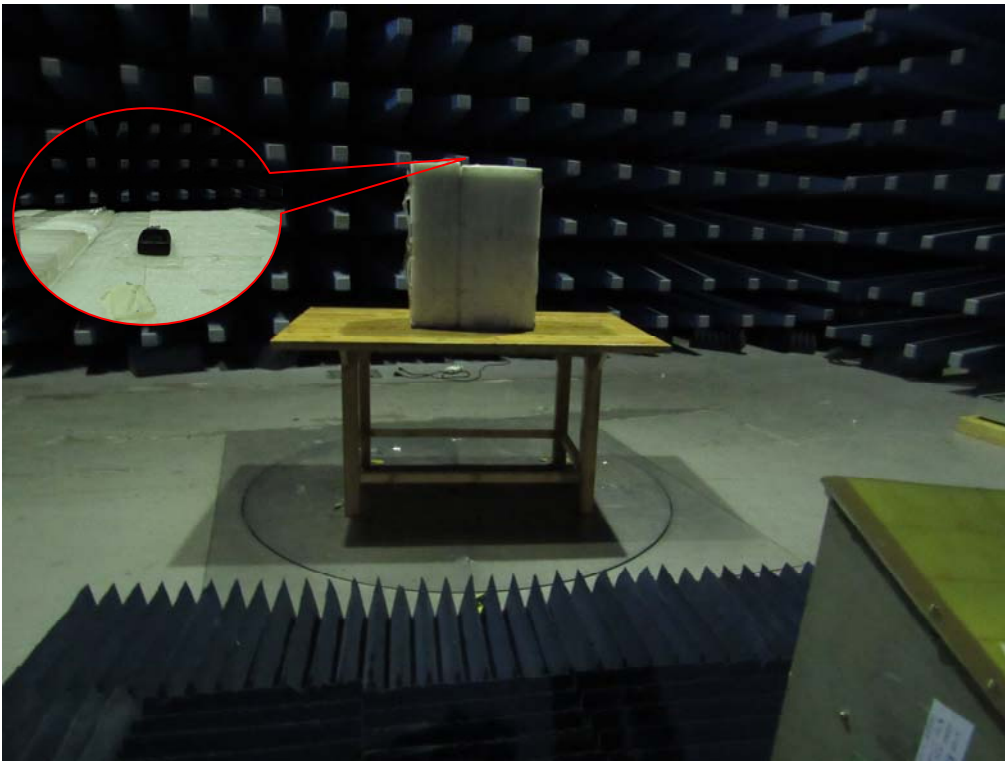
Annex B.iii. Photograph: Test Setup Photo



Radiated Spurious Emissions Test Setup Below 1GHz



Radiated Spurious Emissions Test Setup Below 1GHz

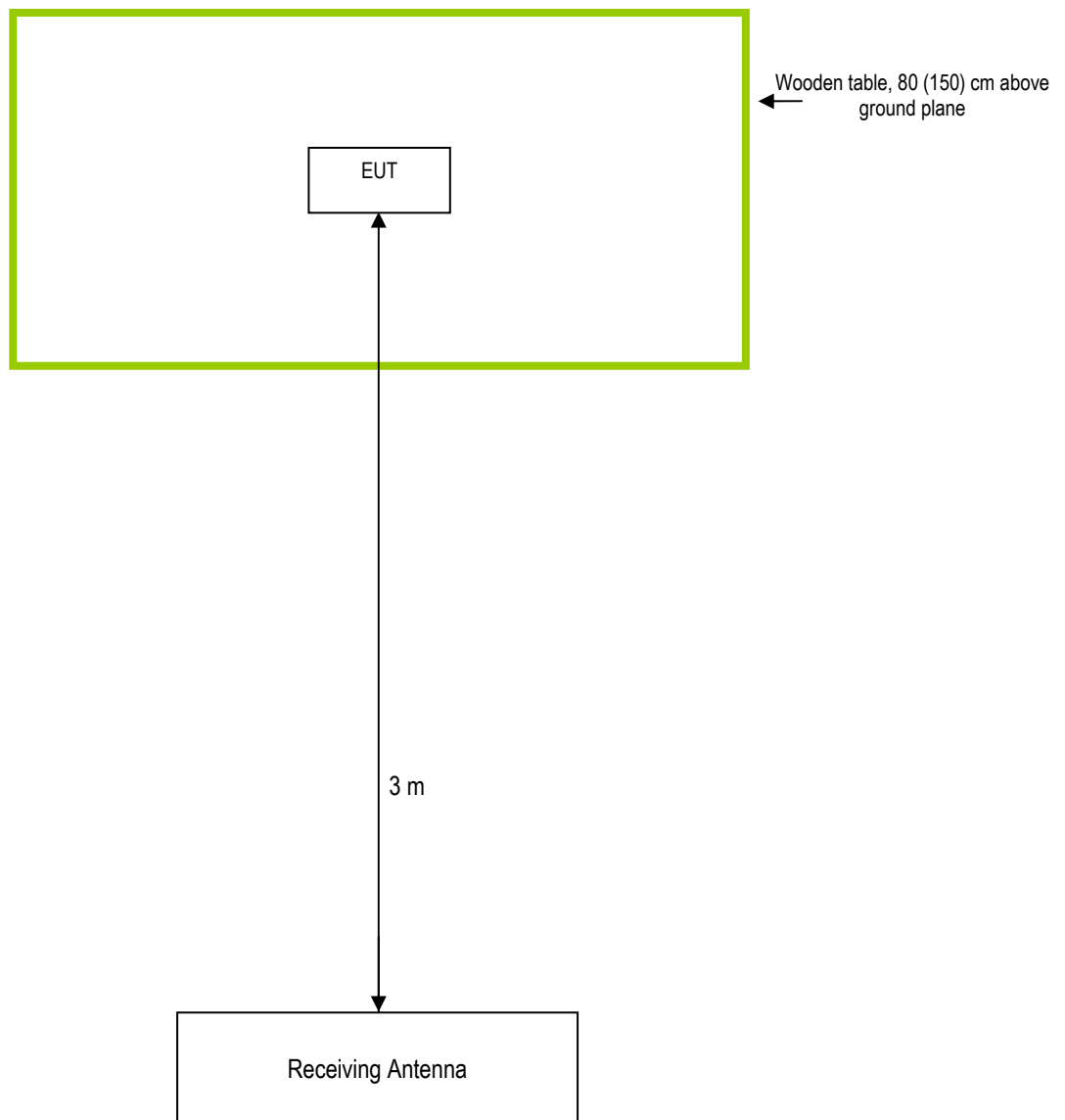


Radiated Spurious Emissions Test Setup Above 1GHz

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
N/A	N/A	N/A

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

Please see attachment

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Annex E. DECLARATION OF SIMILARITY

N/A