



A5133 (A5133-CEFCC-05-1) CE (ETSI EN 300 440) Pre-Test Report

Document Title

A5133 (A5133-CEFCC-05-01) CE (ETSI EN 300 440) Pre-Test Report

Revision History

<u>Rev.</u>	<u>History</u>	<u>Issue Date</u>	<u>Remark</u>
0.0	Initial issue	Sep.19 2020	

Contents

1. Summery of Standards and Results
2. General Information
3. Spurious Emission
4. Band Edge Compliance Test
5. Photograph of Test Site
6. Photograph of DUT

A5133 (A5133-CEFCC-05-1) CE (ETSI EN 300 440) Pre-Test Report

1. SUMMARY OF STANDARDS AND RESULTS

Standard: ETSI EN 300.440 (5.8GHz ISM Band)

Item	Description	Frequency (MHz)	Limit	Test Data	Result	Remark
1	E.I.R.P	5725 ~ 5875	< 14 dBm	16.29dBm 16.26dBm	Note	5730MHz 5870MHz
2	TX Radiated Emission Test	47 ~ 74 87.5 ~ 118 174 ~ 230 470 ~ 862 Others < 1000	≤ -54 dBm ≤ -54 dBm ≤ -54 dBm ≤ -54 dBm ≤ -36 dBm	Page 4 ~ 7	Pass	Tx Mode
		1000 ~ 40000	≤ -30 dBm	Page 8 ~ 19	Pass	Tx Mode
3	RX Radiated Emission Test	25 ~ 1000	≤ -57 dBm	Page 20 ~ 23	Pass	Rx Mode
		1000 ~ 40000	≤ -47 dBm	Page 24 ~ 27	Pass	Rx Mode
4	Out Of Band Domain (OOB)	5725 ~ 5875 - BW	≤ -10 dBm	Page 28~29	Pass	Tx Mode
		5725 - BW ~ 5725 - 2BW	≤ -20 dBm	Page 28~29	Pass	Tx Mode
		5875 ~ 5875 + BW	≤ -10 dBm	Page 28~29	Pass	Tx Mode
		5875 + BW ~ 5875 + 2BW	≤ -20 dBm	Page 29~30	Pass	Tx Mode

Note:

According to ETSI EN 300.440 (5.8GHz ISM band), the EIRP should be less than 14dBm.

The result of our measure is that only the EIPR failed above 14dBm. (EIRP ≐ 16.2dBm, Conducted Power = 11.8dBm)

So we can reduce the Tx power to pass this certification.

If users have problems, Please contact Amiccom's FAE.

A5133 (A5133-CEFCC-05-1) CE (ETSI EN 300 440) Pre-Test Report

2. GENERAL INFORMATION

Item	Description	Remark
1	DUT Name	A3513-CEFCC-05-1
2	DUT Operation Frequency	5725MHz ~ 5875MHz ISM Band
3	DUT Operation Condition	See Below Table
4	Modulation Technology	FSK
5	Firmware Version	20200820_with Trim_CEFCCCTX559-CH145
6	Manufacturer	AMICCOM (笙科電子)
7	Test Site	BUREAU (香港商立德國際商品試驗有限公司)
8	Chamber / Open Site	3 meter Chamber

DUT Operation Condition		
Test Item	Frequency (MHz)	Test Mode
1	25 ~ 1000	TX Burst Mode @ 5730MHz, Data Rate = 4Mbps, Fdev = 1MHz
2	25 ~ 1000	TX Burst Mode @ 5780MHz, Data Rate = 4Mbps, Fdev = 1MHz
3	1000 ~ 15000	TX Burst Mode @ 5730MHz, Data Rate = 4Mbps, Fdev = 1MHz
4	1000 ~ 15000	TX Burst Mode @ 5870MHz, Data Rate = 4Mbps, Fdev = 1MHz
5	15000 ~ 18000	TX Burst Mode @ 5730MHz, Data Rate = 4Mbps, Fdev = 1MHz
6	15000 ~ 18000	TX Burst Mode @ 5870MHz, Data Rate = 4Mbps, Fdev = 1MHz
7	18000 ~ 40000	TX Burst Mode @ 5730MHz, Data Rate = 4Mbps, Fdev = 1MHz
8	18000 ~ 40000	TX Burst Mode @ 5870MHz, Data Rate = 4Mbps, Fdev = 1MHz
9	25 ~ 1000	RX Mode @ 5730MHz, Data Rate = 4Mbps, Fdev = 1MHz
10	25 ~ 1000	RX Mode @ 5870MHz, Data Rate = 4Mbps, Fdev = 1MHz
11	1000 ~ 40000	RX Mode @ 5730MHz, Data Rate = 4Mbps, Fdev = 1MHz
12	1000 ~ 40000	RX Mode @ 5870MHz, Data Rate = 4Mbps, Fdev = 1MHz



The information contained herein is the exclusive property of AMICCOM and shall not be distributed reproduced, or disclosed in whole or in part without prior written permission of AMICCOM.



The information contained herein is the exclusive property of AMICCOM and shall not be distributed reproduced, or disclosed in whole or in part without prior written permission of AMICCOM.



A5133 (A5133-CEFCC-05-1) CE (ETSI EN 300 440) Pre-Test Report

3.4 25 MHz ~ 1000 MHz Spurious (Horizontal) when Tx is 5870 MHz

AMICCOM CONFIDENTIAL











The information contained herein is the exclusive property of AMICCOM and shall not be distributed reproduced, or disclosed in whole or in part without prior written permission of AMICCOM.







A5133 (A5133-CEFCC-05-1) CE (ETSI EN 300 440) Pre-Test Report

3.15 18 GHz ~ 40 GHz Spurious (Vertical) when Tx is 5870MHz

AMICCOM CONFIDENTIAL







A5133 (A5133-CEFCC-05-1) CE (ETSI EN 300 440) Pre-Test Report

3.17 25 MHz ~ 1000 MHz Spurious (Vertical) when Rx is 5730 MHz

AMICCOM CONFIDENTIAL





A5133 (A5133-CEFCC-05-1) CE (ETSI EN 300 440) Pre-Test Report

3.18 25 MHz ~ 1000 MHz Spurious (Horizontal) when Rx is 5730 MHz

AMICCOM CONFIDENTIAL

A5133 (A5133-CEFCC-05-1) CE (ETSI EN 300 440) Pre-Test Report

3.20 25MHz ~ 1000 MHz Spurious (Horizontal) when Rx is 5870 MHz



 **香港商立德國際商品試驗有限公司桃園分公司**
Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

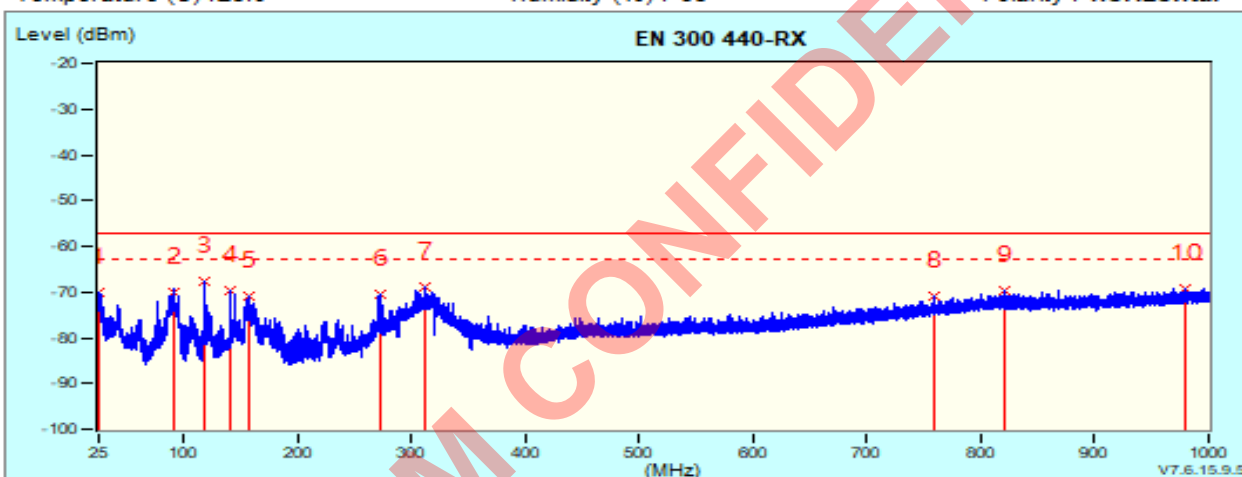
Brand / Model : A5133-CE FCC-05-1
Remark : EUT X-Y Plane, Tx mode, 5870MHz, setting=1520
Sample : N0.A
Tested by : Vic Huang

Location : RF Chamber 1
Temperature (C) : 25.0

Date : 2020/08/20 Time : 18:03:56 Approved by:
Humidity (%) : 65 Polarity : Hor

Approved by:

Polarity : Horizontal



This data is for reference / evaluation purposes only. It might have difference with the compliance site.
If you have any questions regarding the test data, please contact with us or through mail: service.adt@tw.bureauveritas.com

[illegible]

2017-08-31(25M~1G)With AMP-HOR '+' ERP-1021204-(25M~1G)-CH E

Page 1 of 1

D:\ADT_Radiated_V7.6.15.9.4_for_RF\Logs\
202008\2020_08_20.dat 00078

Author: Chia Pin Wu

Version 0.0

Date: 2020.09.16

The information contained herein is the exclusive property of AMICCOM and shall not be distributed reproduced, or disclosed in whole or in part without prior written permission of AMICCOM.



A5133 (A5133-CEFCC-05-1) CE (ETSI EN 300 440) Pre-Test Report

3.22 1000 MHz ~ 40000 MHz Spurious (Horizontal) when Rx is 5730 MHz

AMICCOM CONFIDENTIAL



The information contained herein is the exclusive property of AMICCOM and shall not be distributed reproduced, or disclosed in whole or in part without prior written permission of AMICCOM.



A5133 (A5133-CEFCC-05-1) CE (ETSI EN 300 440) Pre-Test Report

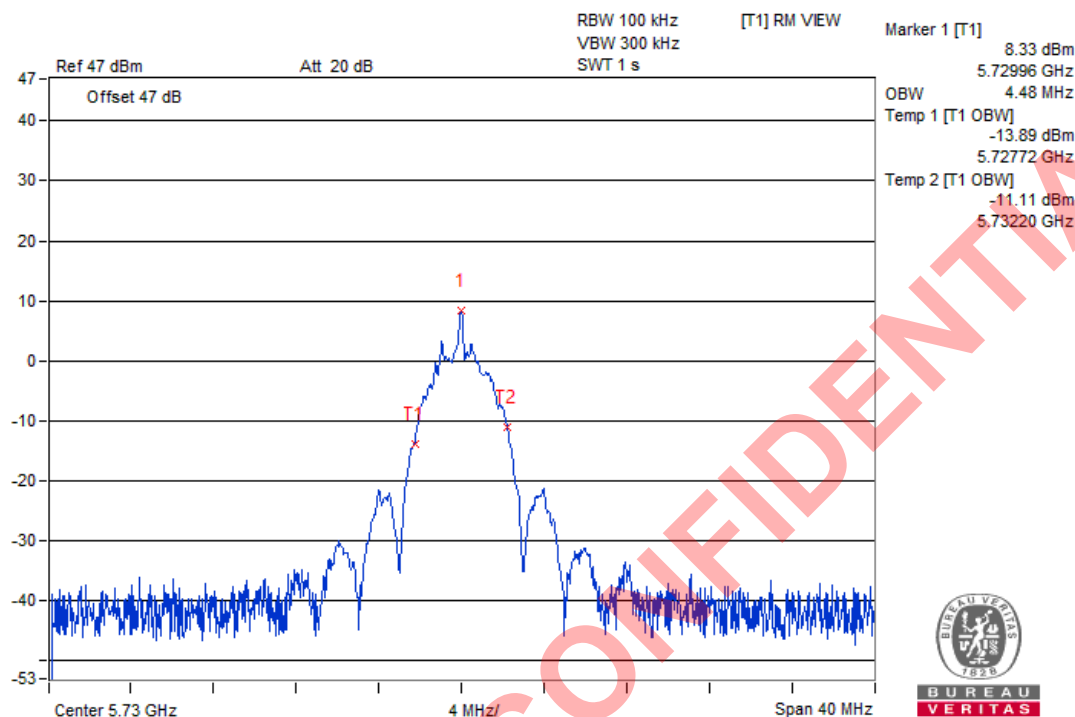
3.24 1000 MHz ~ 40000 MHz Spurious (Horizontal) when Rx is 5870 MHz

AMICCOM CONFIDENTIAL

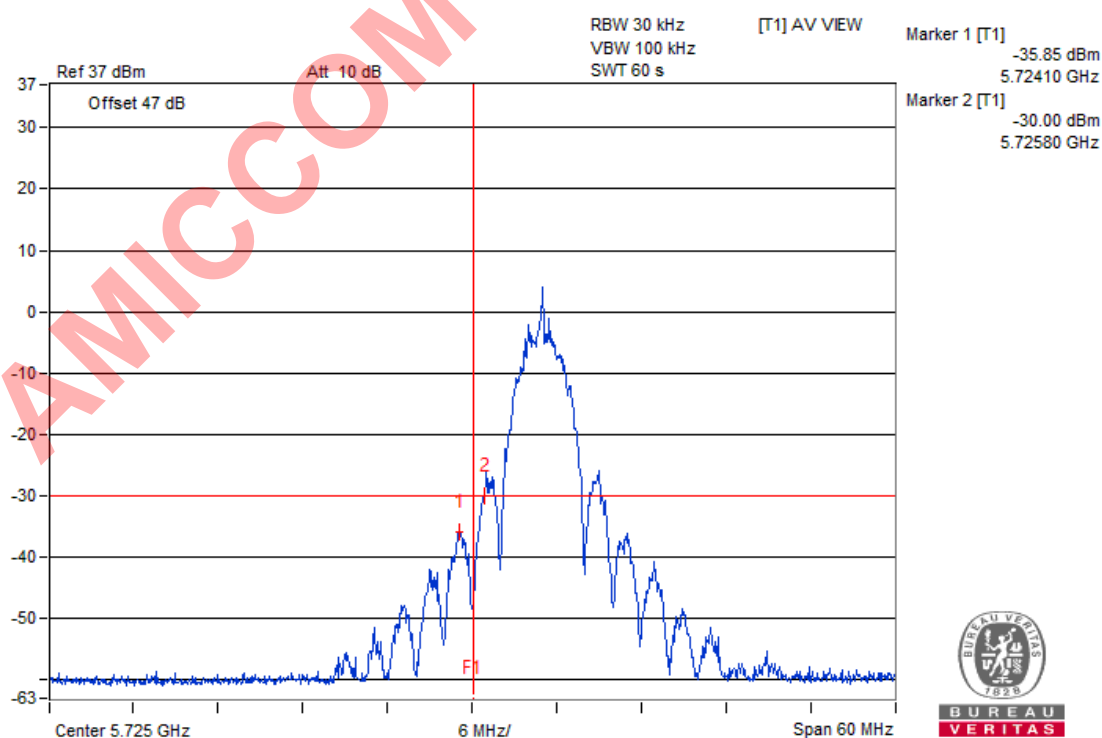
A5133 (A5133-CEFCC-05-1) CE (ETSI EN 300 440) Pre-Test Report

BAND EDGE COMPLIANCE TEST

3.1 Tx is 5730 MHz (Vertical) 99% Occupied Bandwidth Measurement

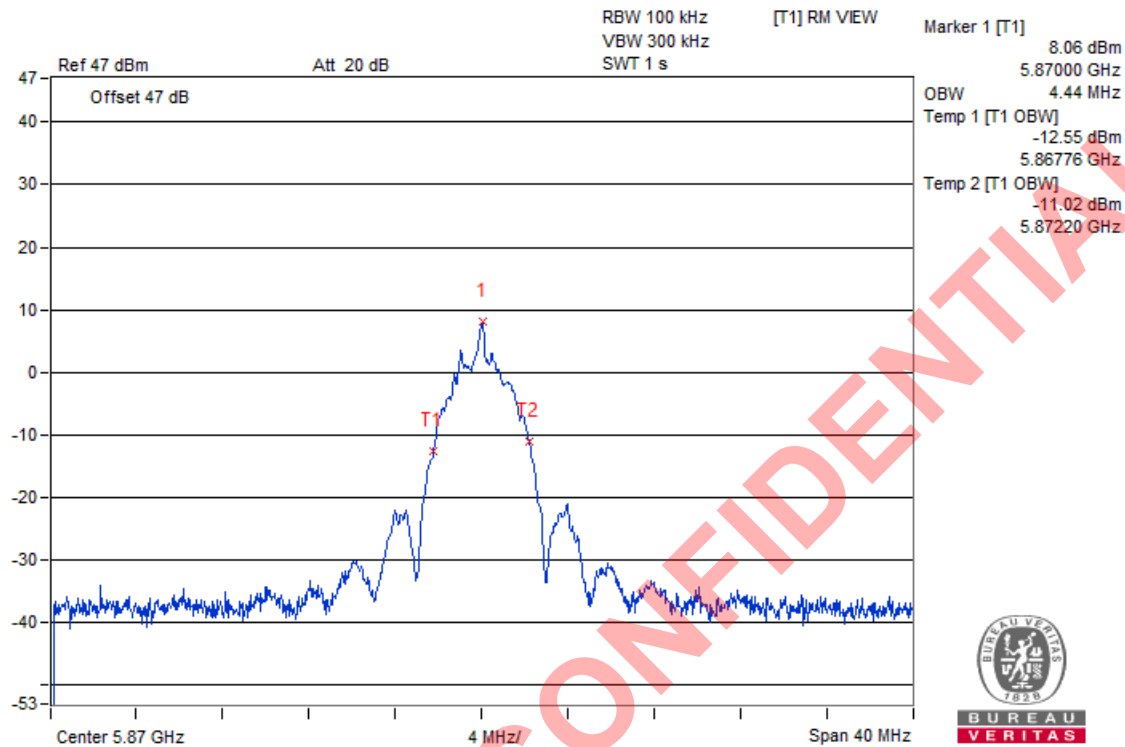


3.2 Tx is 5730 MHz (Vertical) Out Of Band Domain (OOB)

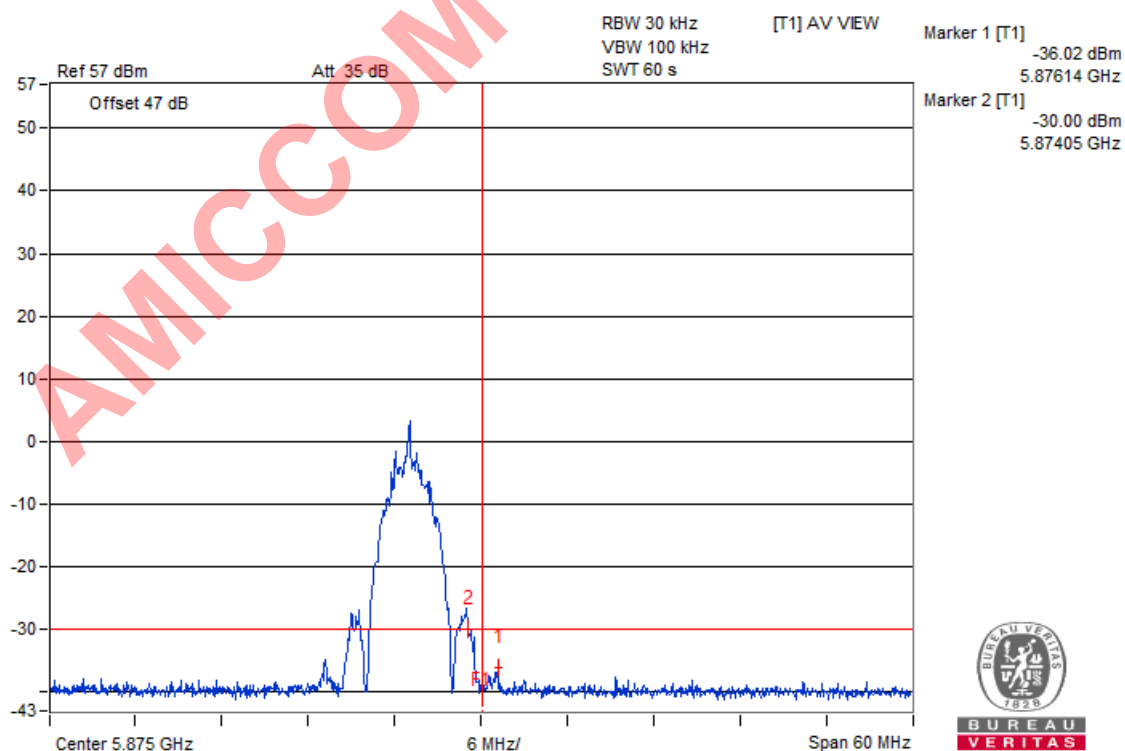


A5133 (A5133-CEFCC-05-1) CE (ETSI EN 300 440) Pre-Test Report

3.3 Tx is 5870 MHz (Vertical) 99% Occupied Bandwidth Measurement

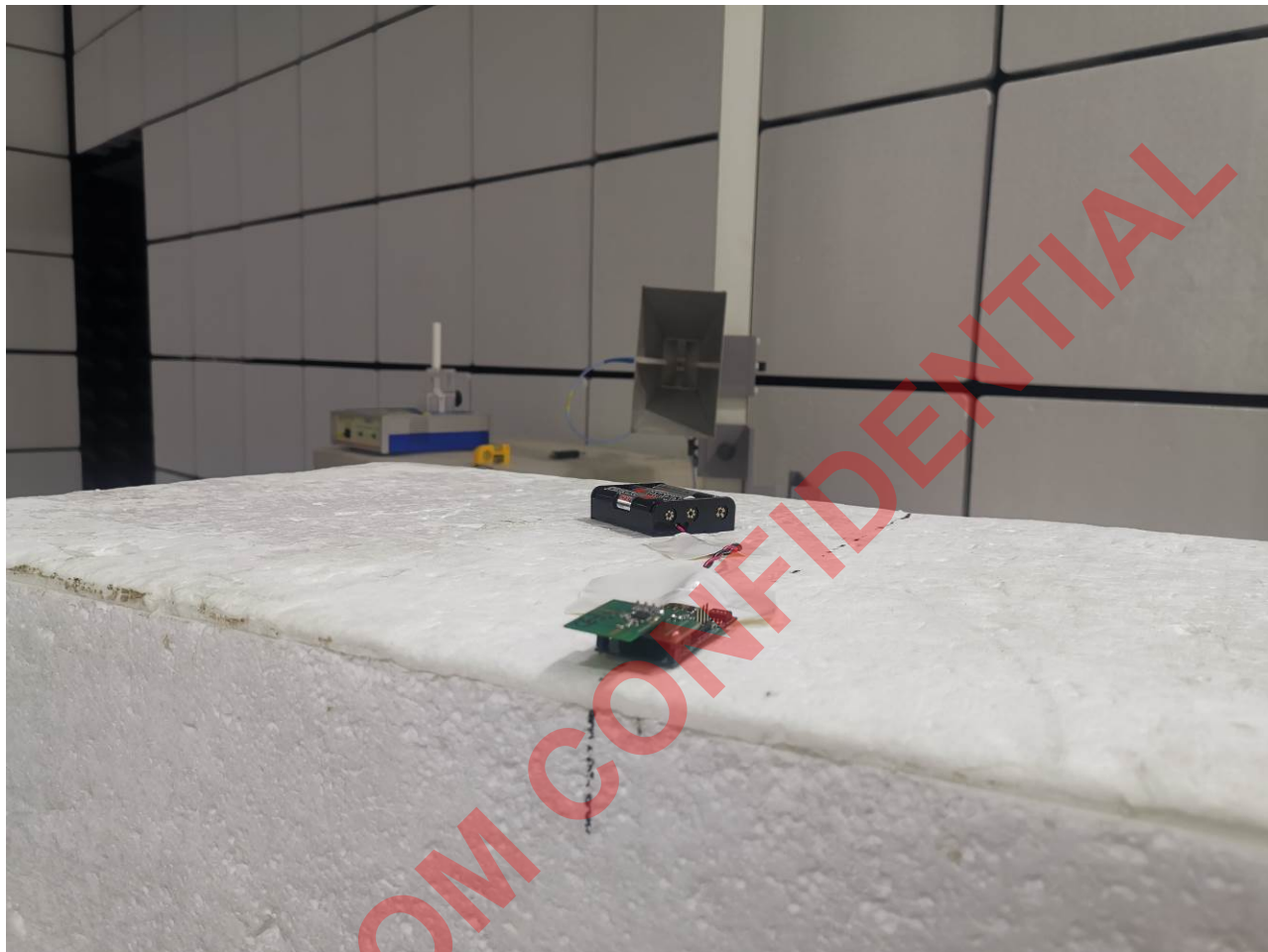


3.4 Tx is 5870 MHz (Vertical) Out Of Band Domain (OOB)



A5133 (A5133-CEFCC-05-1) CE (ETSI EN 300 440) Pre-Test Report

5. Photograph of Test Site



A5133 (A5133-CEFCC-05-1) CE (ETSI EN 300 440) Pre-Test Report

6. Photograph of DUT

