

TEST REPORT

Application No.: KSCR2207001310AT
FCC ID: XMR2022AG550QNA
Applicant: Quectel Wireless Solutions Co., Ltd.
Address of Applicant: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
Manufacturer: Quectel Wireless Solutions Co., Ltd.
Address of Manufacturer: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233

Equipment Under Test (EUT):

EUT Name: 5G Module
Model No.: AG550Q-NA
Trade Mark: Quectel
Standard(s): FCC Part 96.47
FCC KDB 940660 D01 Part 96 CBRS Eqpt v03
WINNF-TS-0122-V1.0.1 CBRS CBSD Test Specification
WINNF-18-IN-00178 CBRS End User Device as UUT Test Guidelines

Date of Receipt: 2022-04-29
Date of Test: 2022-08-26 to 2022-08-28
Date of Issue: 2022-08-29

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

Eric Lin
Laboratory Manager



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Revision Record			
Version	Description	Date	Remark
00	Original	2022-08-29	/

Authorized for issue by:			
		<i>Damon Zhou</i>	
		Damon Zhou / Project Engineer	
		<i>Eric Lin</i>	
		Eric Lin / Reviewer	



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2 Test Summary

Item	Standard	Test Case ID	Result
End User Device additional requirement	96.47	/	Pass

The UUT is an End User Device. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standards:

FCC Part 96.47

FCC KDB 940660 D01 Part 96 CBRS Eqpt v03

WINNF-TS-0122-V1.0.1 CBRS CBSD Test Specification

WINNF-18-IN-00178 CBRS End User Device as UUT Test Guidelines



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC4.3V
Sample Type:	End User device
Transmitter Frequency Band:	LTE : Band 48 5GNR: n48
Transmitter Frequency Range:	3550~3700MHz
Antenna Type:	External Antenna
Hardware Version:	R1.0
Software Version:	AG550QNAABR03A03M8G_OCPU
Antenna Gain:	-3.65dBi

4.2 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 7.25 \times 10^{-8}$
2	RF conducted power	$\pm 0.75\text{dB}$
3	Temperature test	$\pm 1^{\circ}\text{C}$
4	Humidity test	$\pm 3\%$
5	Supply voltages	$\pm 1.5\%$
6	Time	$\pm 3\%$

4.3 Description of Support Units

For LTE test:

Description	Manufacturer	Model No.	Serial No.
EPC	Lanner Electronics Inc.	LICA-1513A	LR202002004052
Router	TP-LINK	TL-R860+	1175379002425
Base station	Baicells	pBS31010 (FCC ID: 2AG32PBS31010)	12020002912122B0001



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For 5G NR Test:

Description	Manufacturer	Model No.	Serial No.
5GC	astir	astir_5GC	A372768X0507398
Router	TP-LINK	TL-R860+	1175379002425
Base Band Unit	BTI	sCELL- G52091NAX	L603JESE11
Remote Radio Unit	BTI	RU4370 (FCC ID: WBKRU4370)	C021492100004S

4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

- 1.SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).
- 2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).



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5 Equipment List

Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
Spectrum Analyzer	KEYSIGHT	N9020A	KUS2001M00 1-2	2021/9/17	2022/9/16
Coaxial Cable	Thermax	SHX-PD0.5/18- 2S	KSEM025-1	2021/10/16	2022/10/15
Attenuator	Mini-Circuits	RS-WS-N01-6J	KSEM025-6	N.C.R.	N.C.R.
Humidity / Temperature Indicator	Renke Control	RS-WS-N01-6J	KSEM024-4	01/04/2022	31/03/2023



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6 Test Method and Environment

6.1 End User Device Conformance and Performance

Test Requirement: FCC Part 96.47

Test Method: WINNF-18-IN-00178 CBRS End User Device as UUT Test Guidelines

6.2 Test Environment

Environmental Conditions: 25deg. C, 65%RH

6.3 Test Requirement

FCC Part 96.47

- a). End User Devices may operate only if they can positively receive and decode an authorization signal transmitted by a CBSD, including the frequencies and power limits for their operation.
- b). An End User Device must discontinue operations, change frequencies, or change its operational power level within 10 seconds of receiving instructions from its associated CBSD.

6.4 Test Procedure

Following procedure can be done by applying WINNF-TS-0122-V1.0.1 CBRS CBSD Test Specification, use the certified LTE Base station CBSD (FCC ID: 2AG32PBS31010) and 5G NR Base station CBSD (FCC ID: WBKRU4370) as companion device to show compliance with Part 96.47 requirement for End User Device (EUD):

For LTE:

1. Setup with frequency 3550-3570MHz and power level 18dBm/MHz;
2. Enable CBSD service ;
3. Check EUD Tx Frequency and power;
4. Disable AP service ;
5. Check EUD stops transmission within 10seconds;
6. Setup with 3610-3630MHz & power level 8dBm/MHz;
7. Enable CBSD service;
8. Check EUD Tx Frequency and power;



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9. Disable CBSD service;
10. Check EUD stops transmission within 10seconds.



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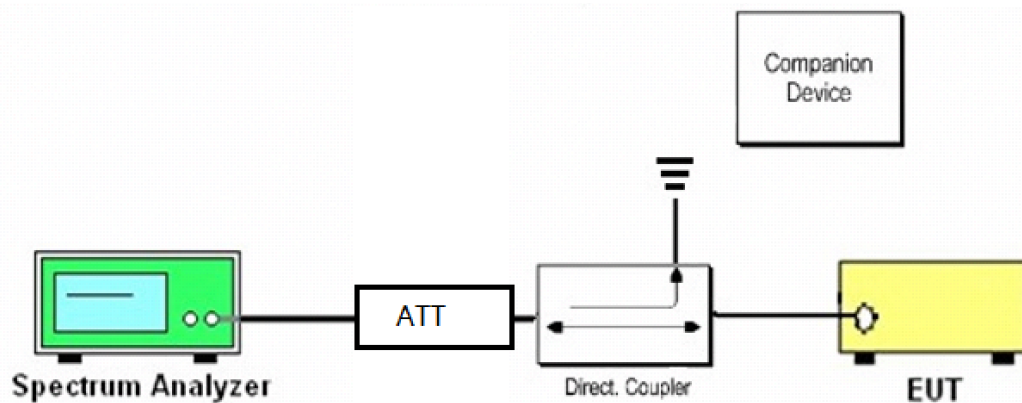
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For 5G NR:

1. Setup with frequency 3550-3650MHz and power level 15dBm/MHz;
2. Enable CBSD service ;
3. Check EUD Tx Frequency and power;
4. Disable AP service ;
5. Check EUD stops transmission within 10seconds;
6. Setup with 3600-3700MHz & power level 5dBm/MHz;
7. Enable CBSD service;
8. Check EUD Tx Frequency and power;
9. Disable CBSD service;
10. Check EUD stops transmission within 10seconds.

6.5 Test Setup



For LTE:

End User Device as UUT, the companion device is certified CBRS (FCC ID: 2AG32PBS31010)

For 5G NR:

End User Device as UUT, the companion device is certified CBRS (FCC ID: WBKRU4370)



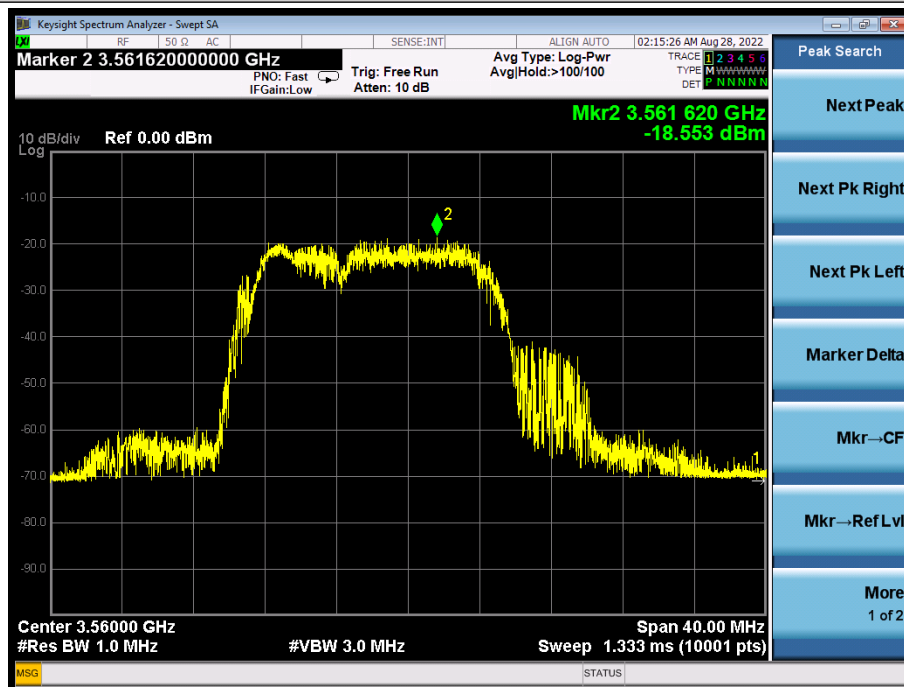
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6.6 Test Result

For LTE

[Step 1] Setup with frequency 3550-3570MHz and power level 18dBm/MHz

[Step 3] Check EUD Tx Frequency and power



EIRP PSD=-18.553-3.65=-22.203dBm/MHz, Antenna gain is -3.65dBi

[Step 5] EUD stops transmission within 10 seconds of receiving instructions from its associated CBSD.

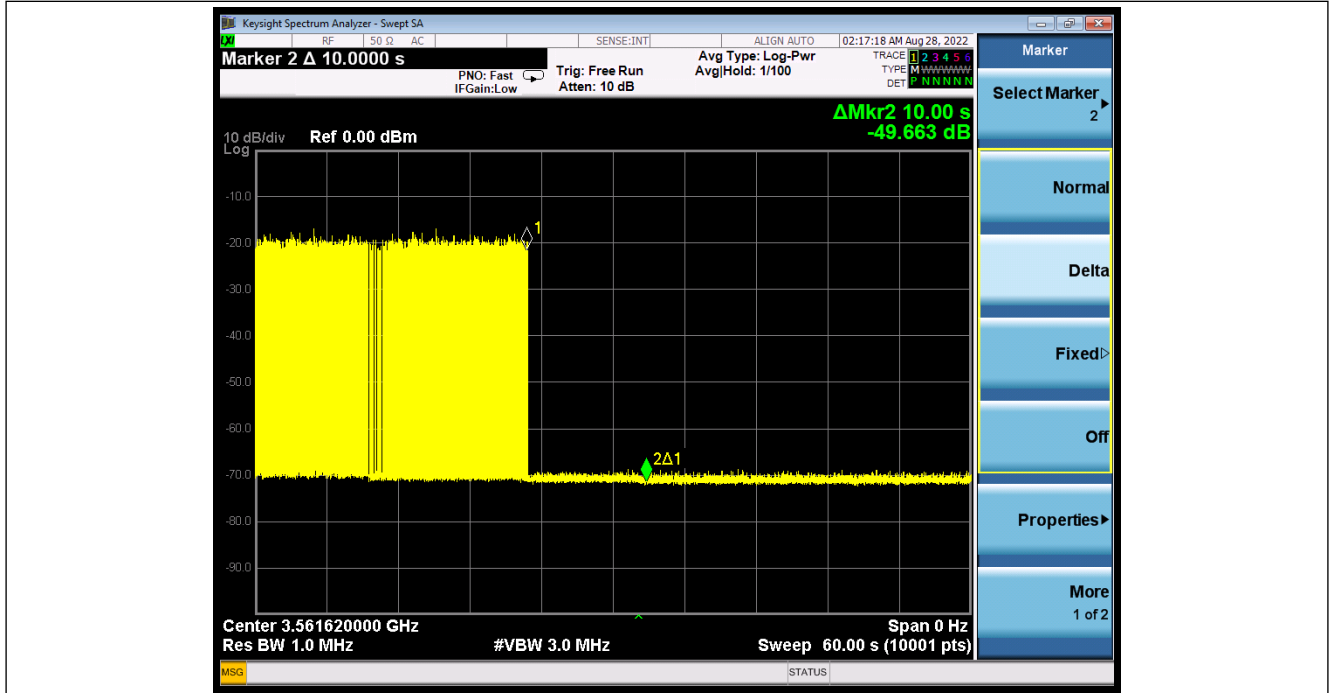


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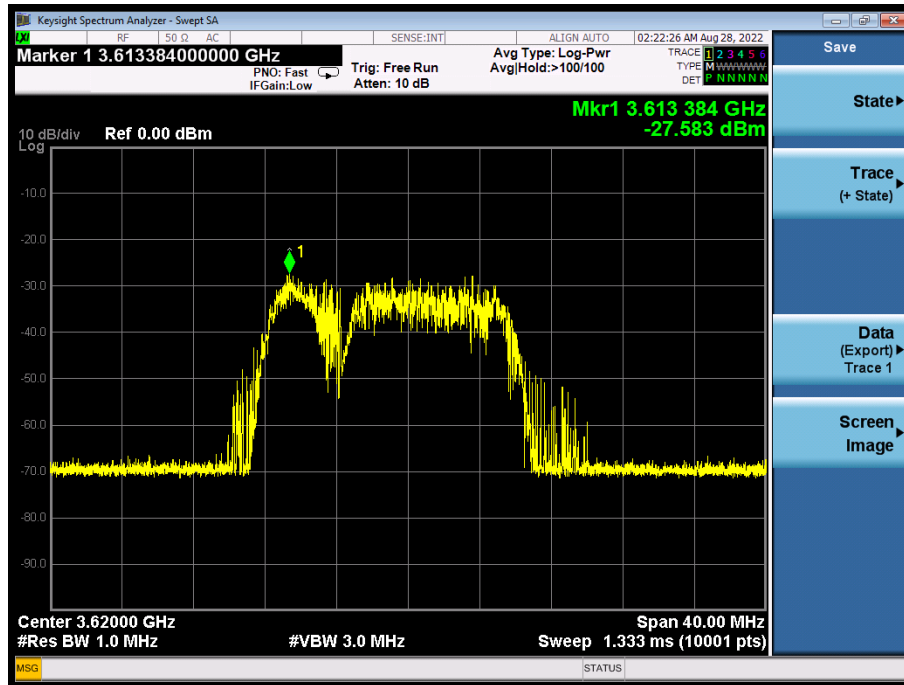
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[Step 6] Setup with frequency 3610-3630MHz and power level 8dBm/MHz

[Step 8] Check EUD Tx Frequency and power

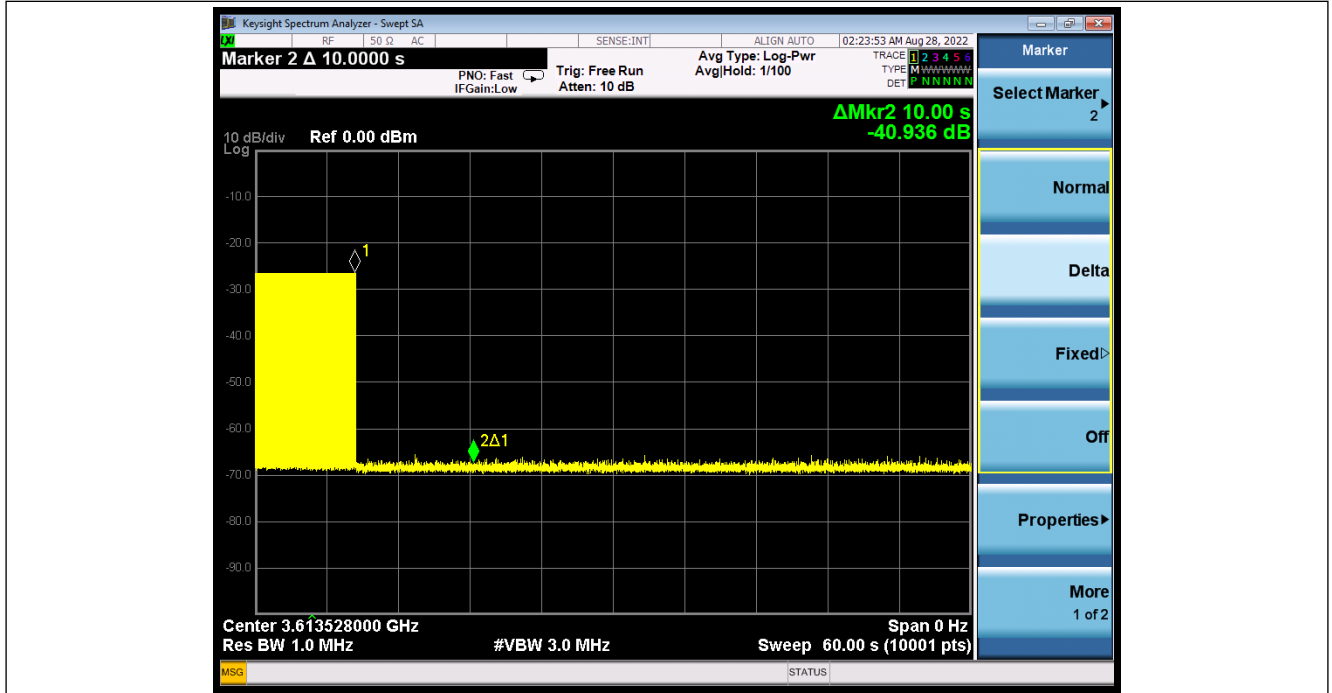


EIRP PSD=-27.583-3.65=-31.233dBm/MHz, Antenna gain is -3.65dBi

[Step 10] EUD stops transmission within 10 seconds of receiving instructions from its associated CBSD.



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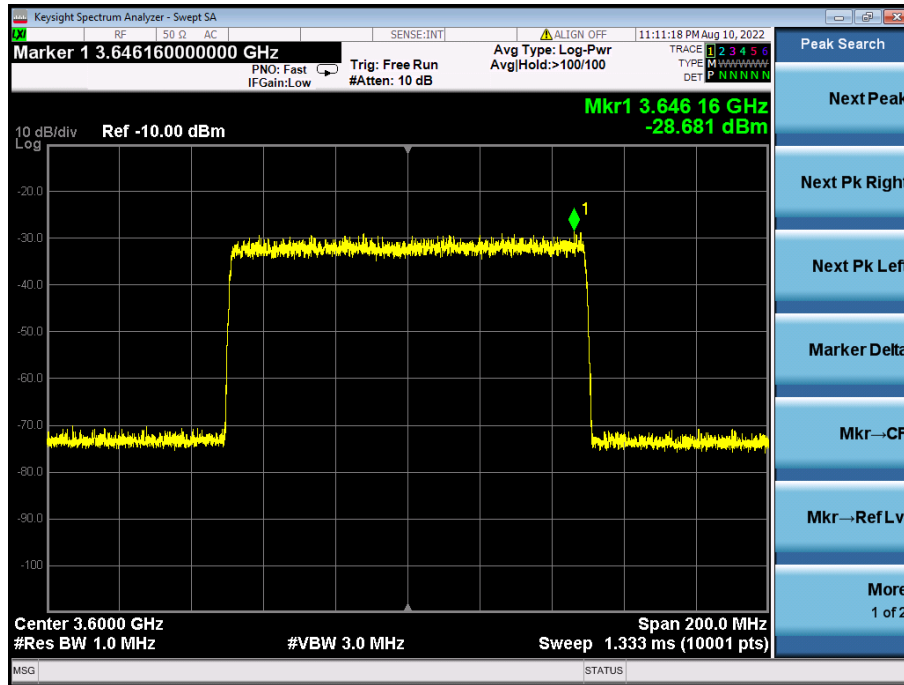
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For 5GNR

[Step 1] Setup with frequency 3550-3650MHz and power level 15dBm/MHz

[Step 3] Check EUD Tx Frequency and power



EIRP PSD=-28.681-3.65=-32.331dBm/MHz, Antenna gain is -3.65dBi

[Step 5] EUD stops transmission within 10 seconds of receiving instructions from its associated CBSD.

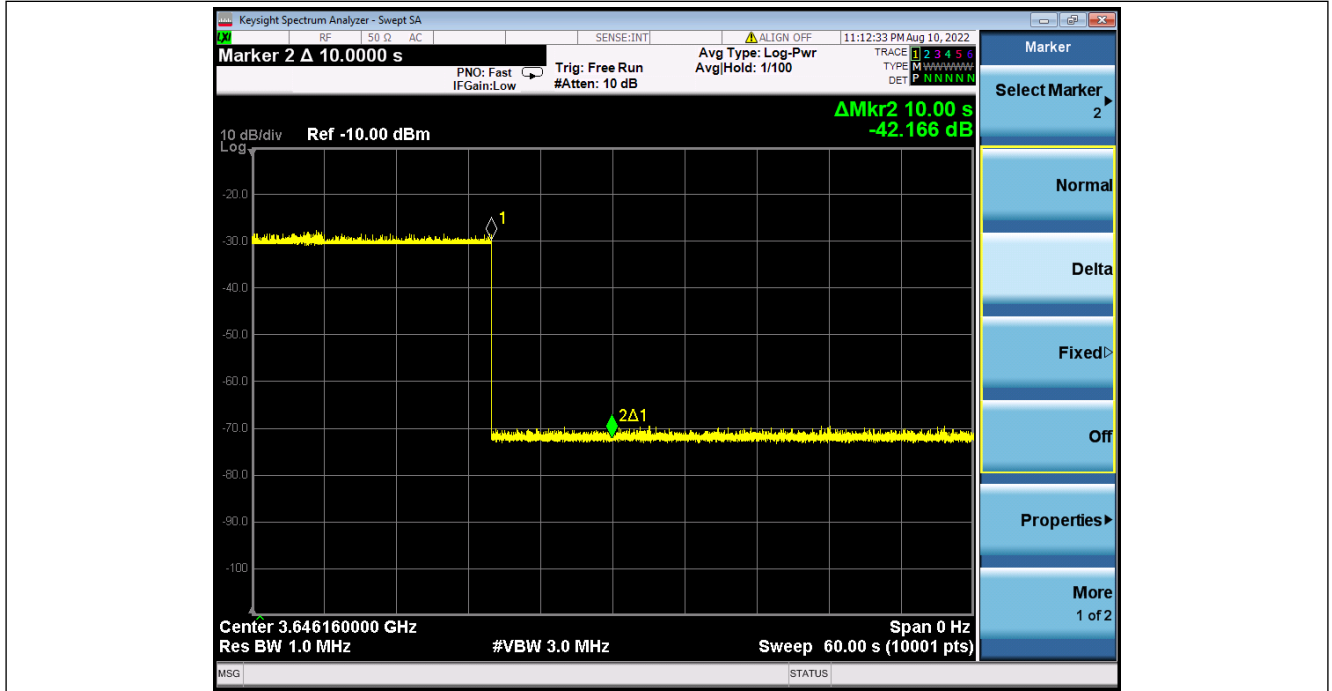


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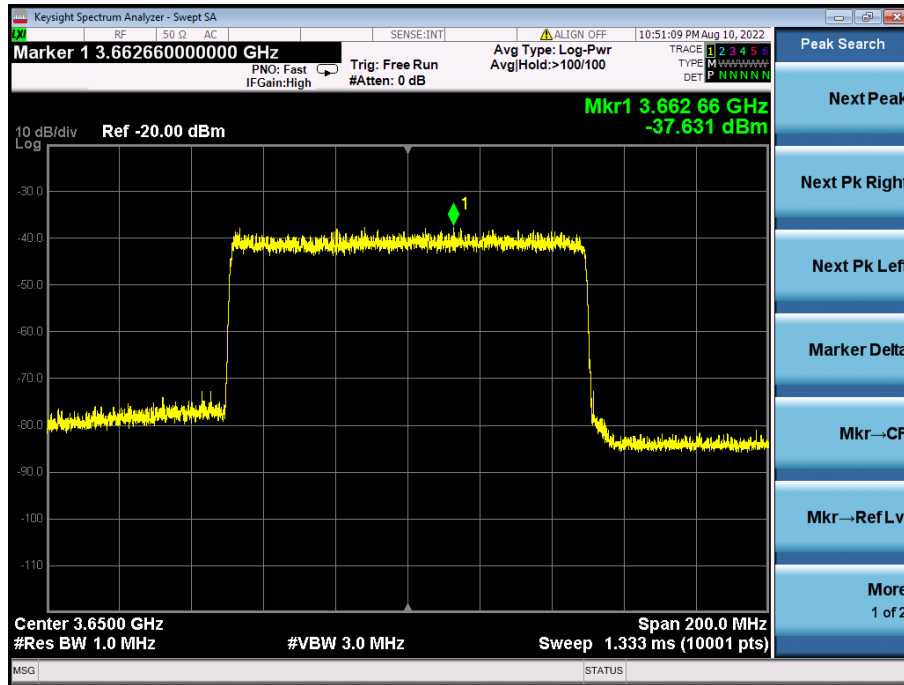
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[Step 6] Setup with frequency 3600-3700MHz and power level 5dBm/MHz

[Step 8] Check EUD Tx Frequency and power

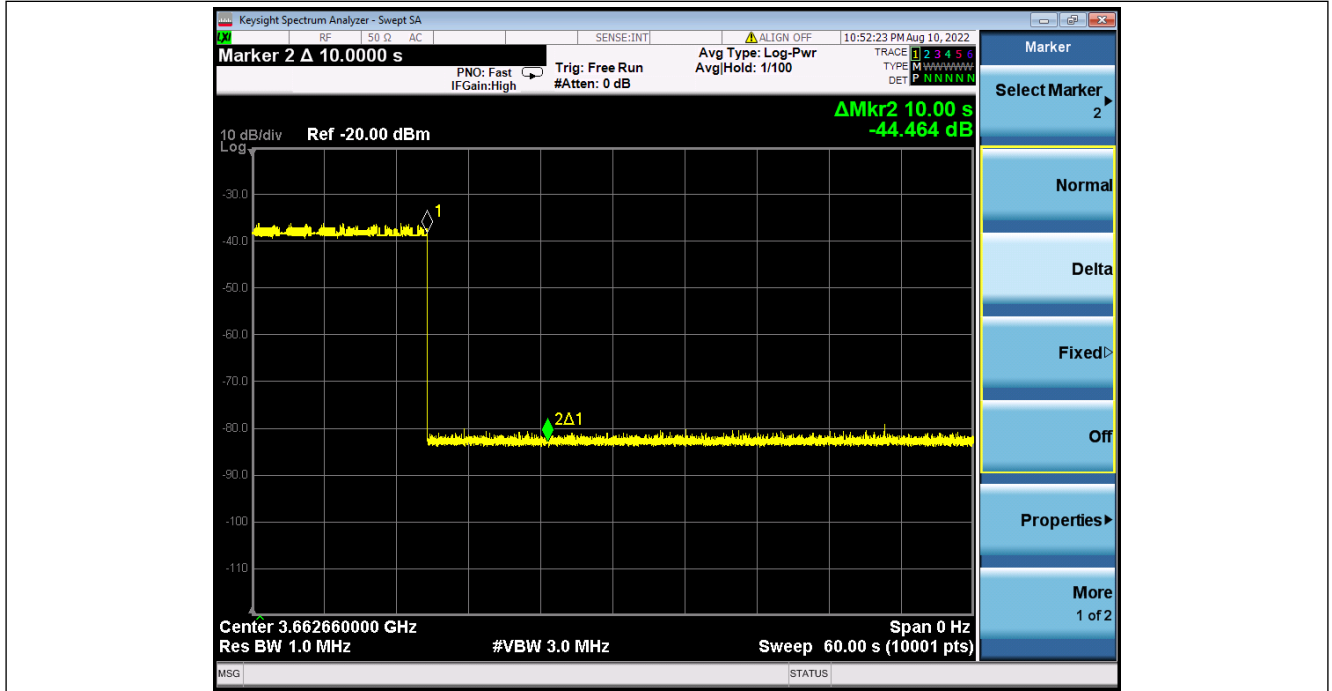


EIRP PSD=-37.631-3.65=-41.281dBm/MHz, Antenna gain is -3.65dBi

[Step 10] EUD stops transmission within 10 seconds of receiving instructions from its associated CBSD.



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7 Photographs

7.1 EUT Constructional Details (EUT Photos)

Please Refer to Integral and internal photos for details.

- End of the Report -



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