

BUREAU
VERITAS

Test Report No.: W7L-220214W001RF04



Certificate # 3939.01

FCC TEST REPORT

(PART 90)

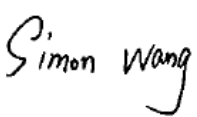
Applicant:	Continental Automotive Systems, Inc.
Address:	21440 W Lake Cook Rd., Deer Park, IL 60010, USA

Manufacturer or Supplier:	Continental Automotive Systems, Inc.
Address:	21440 W Lake Cook Rd., Deer Park, IL 60010, USA
Product:	FE5NA0010, FE5NA0011
Brand Name:	Continental
Model Name:	FE5NA0010, FE5NA0011
FCC ID:	LHJ-FE5NA0010
HW version:	P4.1
SW version:	MODEMSA515M_LE2.1_01.12.13
Registration No:	525120
Designation No:	CN1171
Date of tests:	Mar. 15, 2022 ~ Jul. 30, 2022

The tests have been carried out according to the requirements of the following standard:

☒ FCC Part 90, Subpart R, S ☒ ANSI/TIA/EIA-603- D
☒ FCC Part 2 ☒ ANSI/TIA/EIA-603-E ☒ ANSI C63.26-2015

CONCLUSION: The submitted sample was found to comply with the test requirement

Prepared by Simon Wang Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
 Date: Jul. 30, 2022	 Date: Jul. 30, 2022

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

BV 7Layers Communications
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TABLE OF CONTENTS

LTE BAND14	3
PEAK-TO-AVERAGE RATIO(CCDF).....	3
TEST RESULT	3
TEST GRAPHS	5
26DB BANDWIDTH AND OCCUPIED BANDWIDTH	17
TEST RESULT	17
TEST GRAPHS	18
BAND EDGE.....	23
TEST RESULT	23
TEST GRAPHS	25
CONDUCTED SPURIOUS EMISSION	34
TEST RESULT	34
TEST GRAPHS	36
FREQUENCY STABILITY	54
TEST RESULT	54

**LTE Band14****Peak-to-Average Ratio(CCDF)****Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band14	5MHz	QPSK	23305	1RB#0	3.59	13	PASS
Band14	5MHz	QPSK	23305	25RB#0	5.29	13	PASS
Band14	5MHz	QPSK	23330	1RB#0	3.63	13	PASS
Band14	5MHz	QPSK	23330	25RB#0	5.34	13	PASS
Band14	5MHz	QPSK	23355	1RB#0	3.62	13	PASS
Band14	5MHz	QPSK	23355	25RB#0	5.40	13	PASS
Band14	5MHz	16QAM	23305	1RB#0	5.56	13	PASS
Band14	5MHz	16QAM	23305	25RB#0	6.13	13	PASS
Band14	5MHz	16QAM	23330	1RB#0	5.45	13	PASS
Band14	5MHz	16QAM	23330	25RB#0	6.11	13	PASS
Band14	5MHz	16QAM	23355	1RB#0	5.48	13	PASS
Band14	5MHz	16QAM	23355	25RB#0	6.15	13	PASS
Band14	5MHz	64QAM	23305	1RB#0	6.78	13	PASS
Band14	5MHz	64QAM	23305	25RB#0	6.69	13	PASS
Band14	5MHz	64QAM	23330	1RB#0	6.62	13	PASS
Band14	5MHz	64QAM	23330	25RB#0	6.73	13	PASS
Band14	5MHz	64QAM	23355	1RB#0	6.65	13	PASS

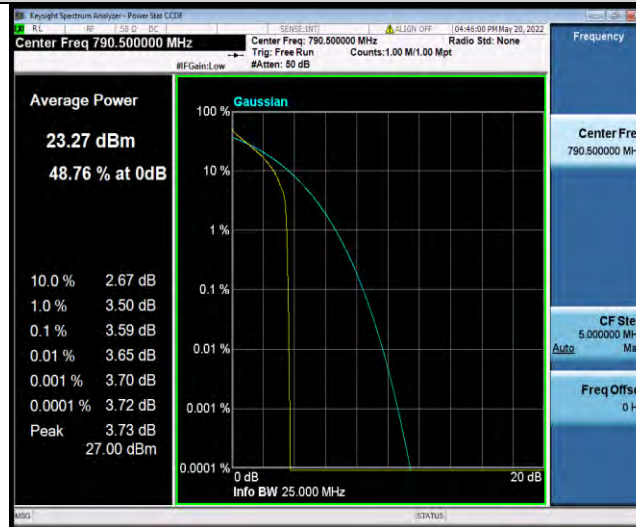


Band14	5MHz	64QAM	23355	25RB#0	6.75	13	PASS
Band14	10MHz	QPSK	23330	1RB#0	3.55	13	PASS
Band14	10MHz	QPSK	23330	50RB#0	5.31	13	PASS
Band14	10MHz	16QAM	23330	1RB#0	5.33	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	6.09	13	PASS
Band14	10MHz	64QAM	23330	1RB#0	6.46	13	PASS
Band14	10MHz	64QAM	23330	50RB#0	6.69	13	PASS

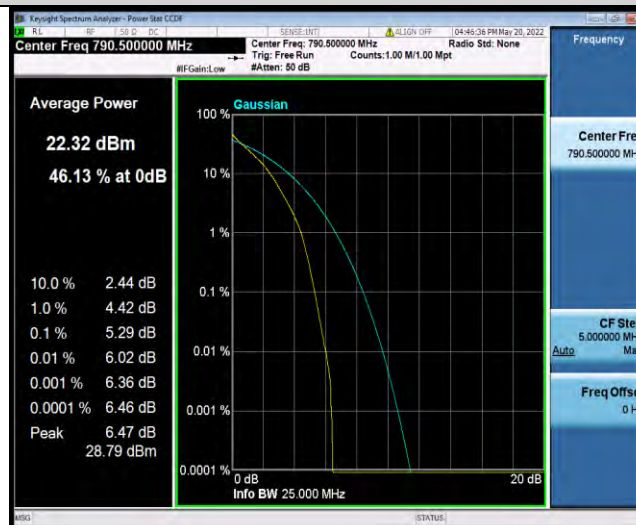


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Test Graphs

Band14-5MHz-QPSK-23305-1RB#0



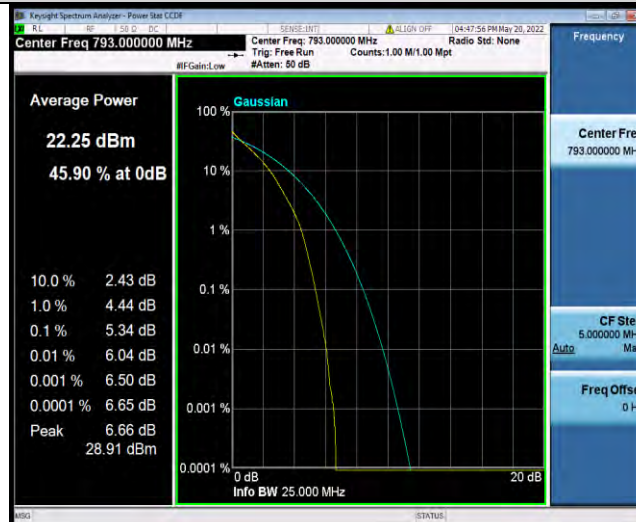
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Band14-5MHz-QPSK-23330-1RB#0



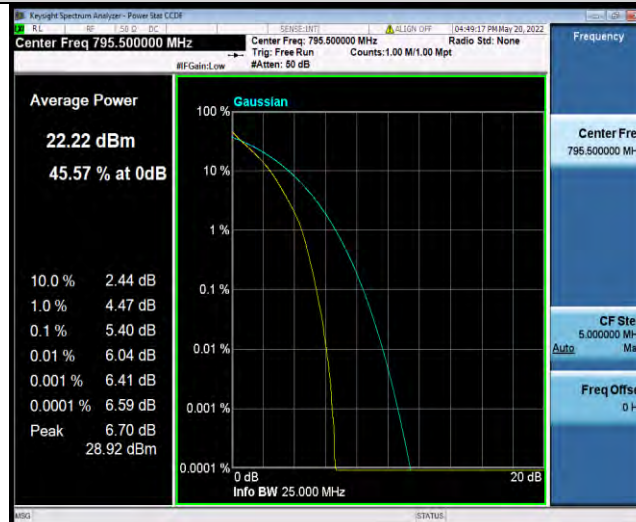
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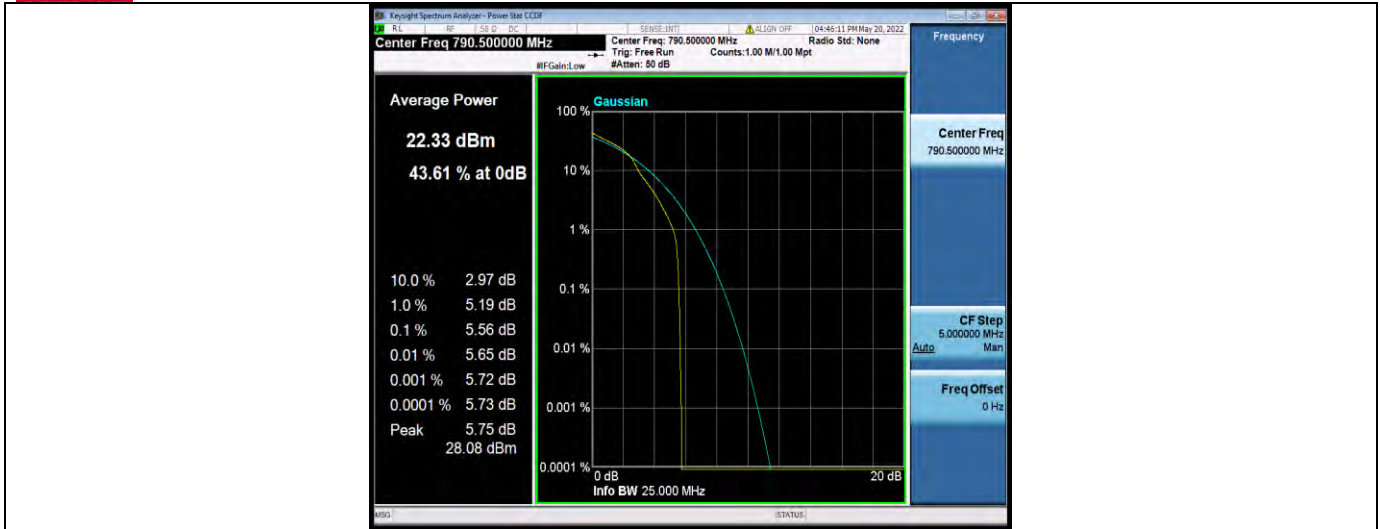
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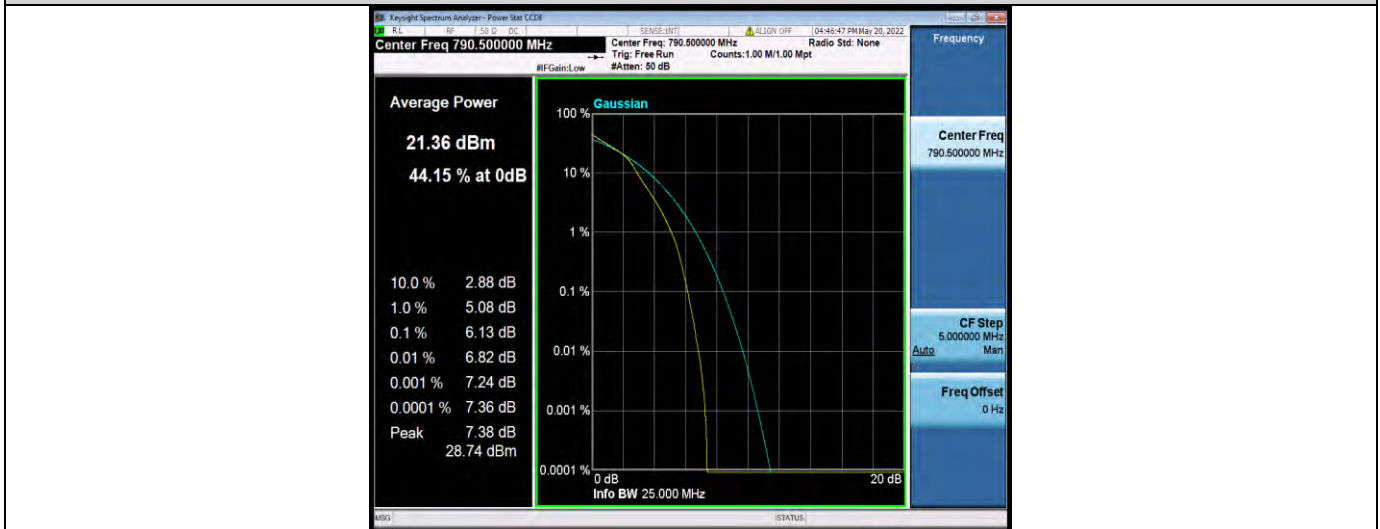
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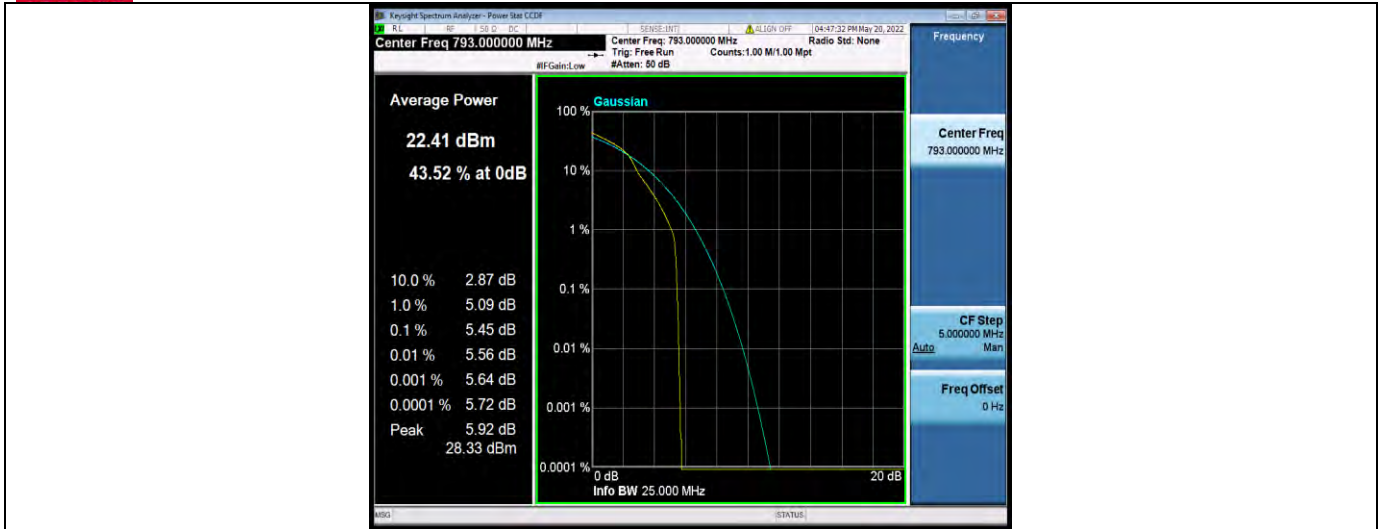
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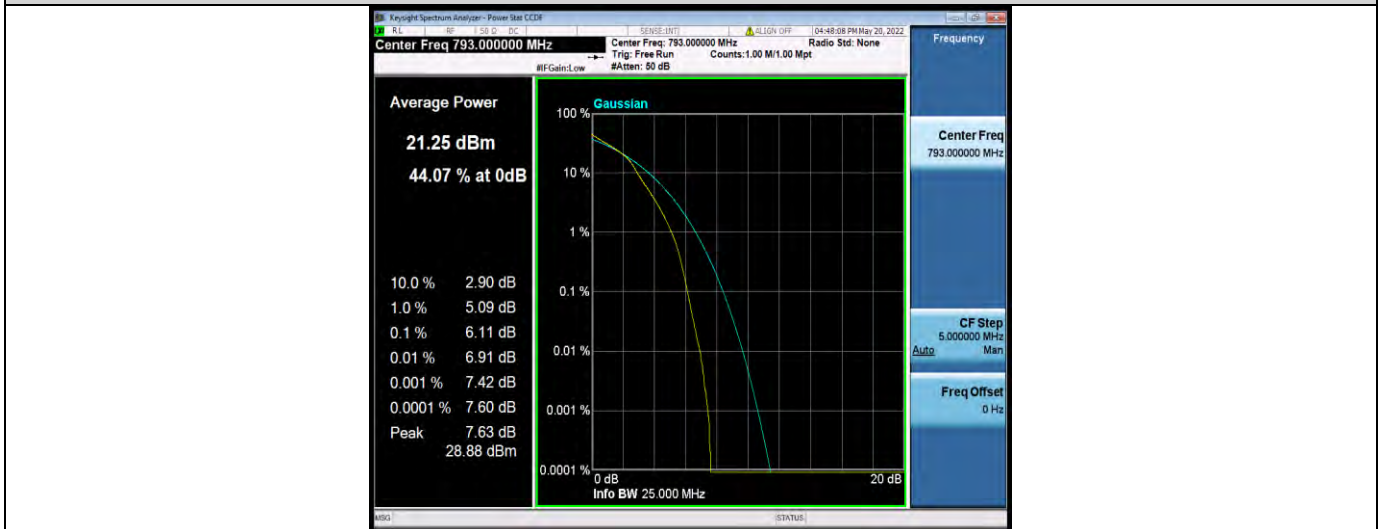
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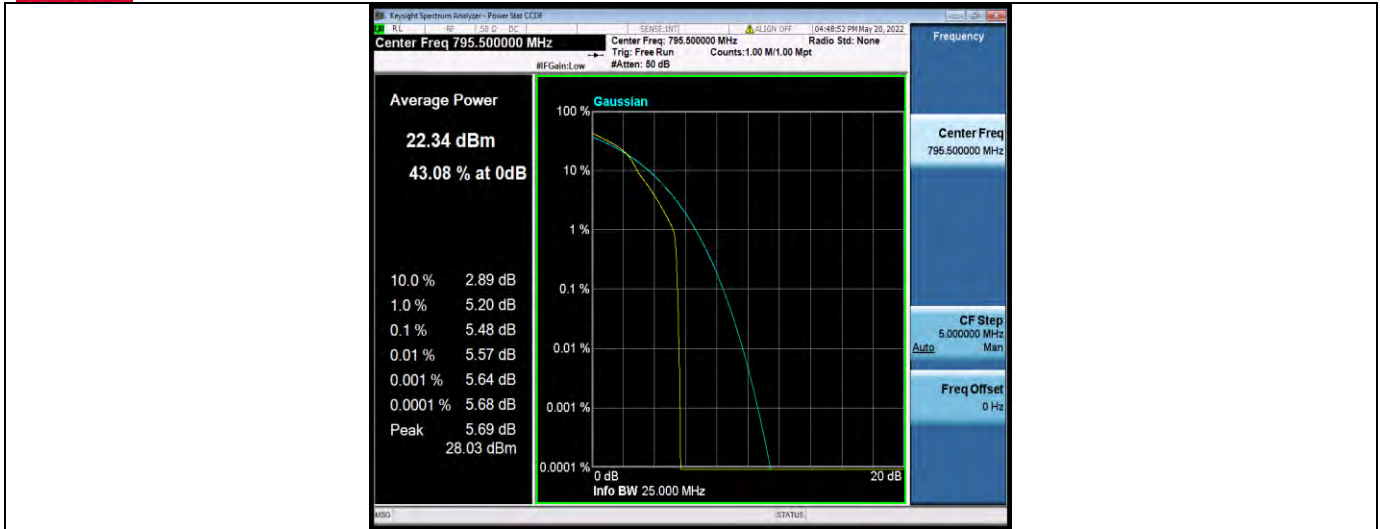
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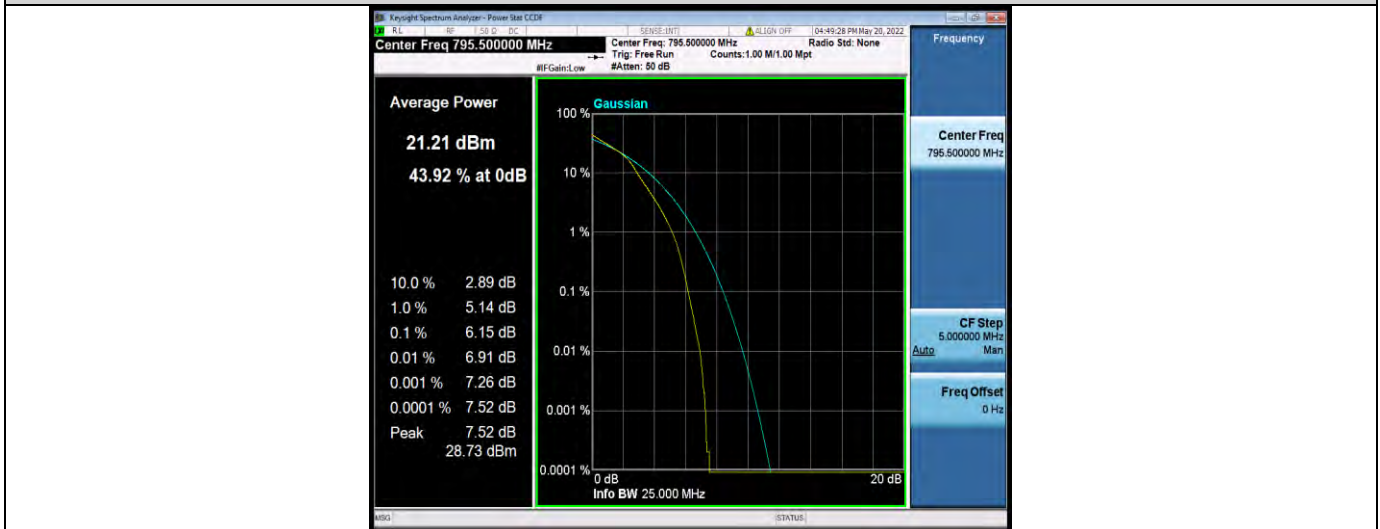
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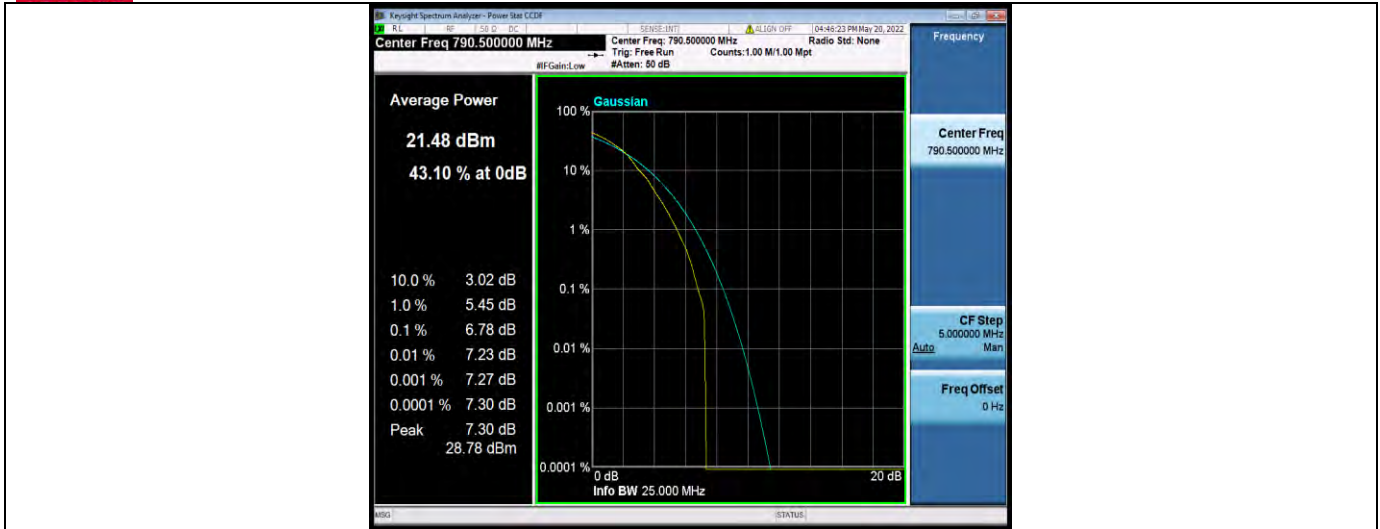
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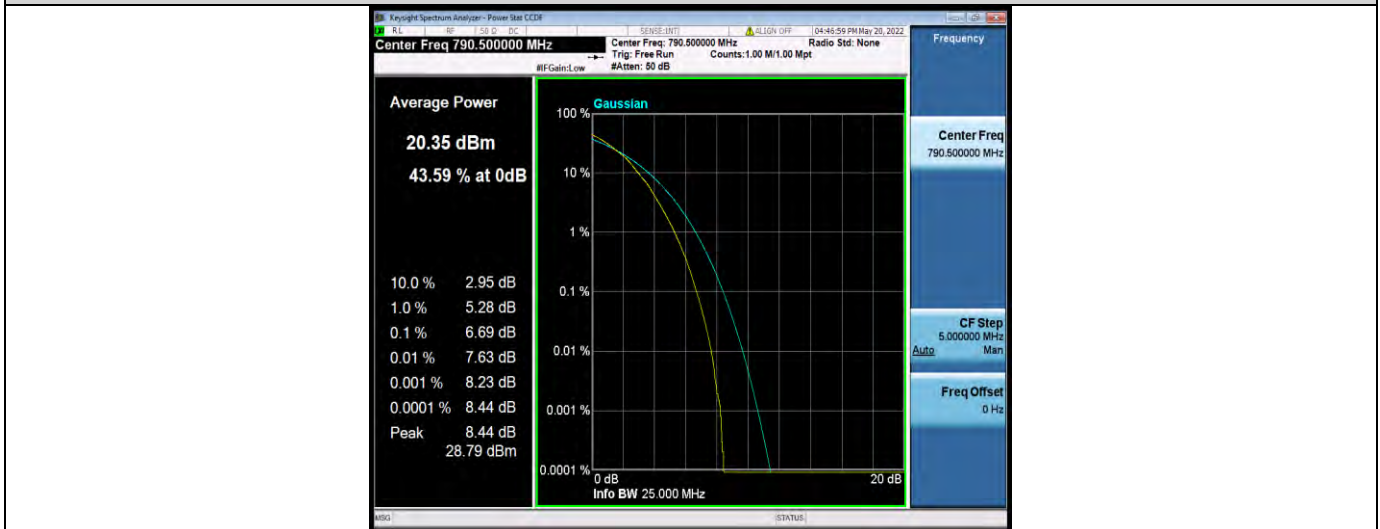
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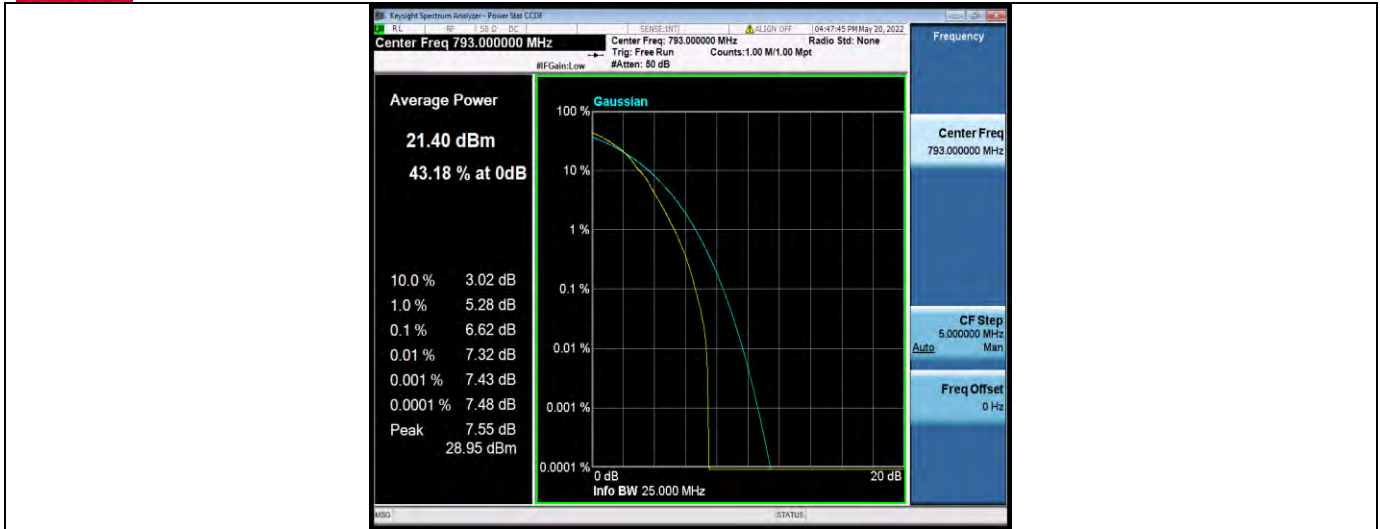
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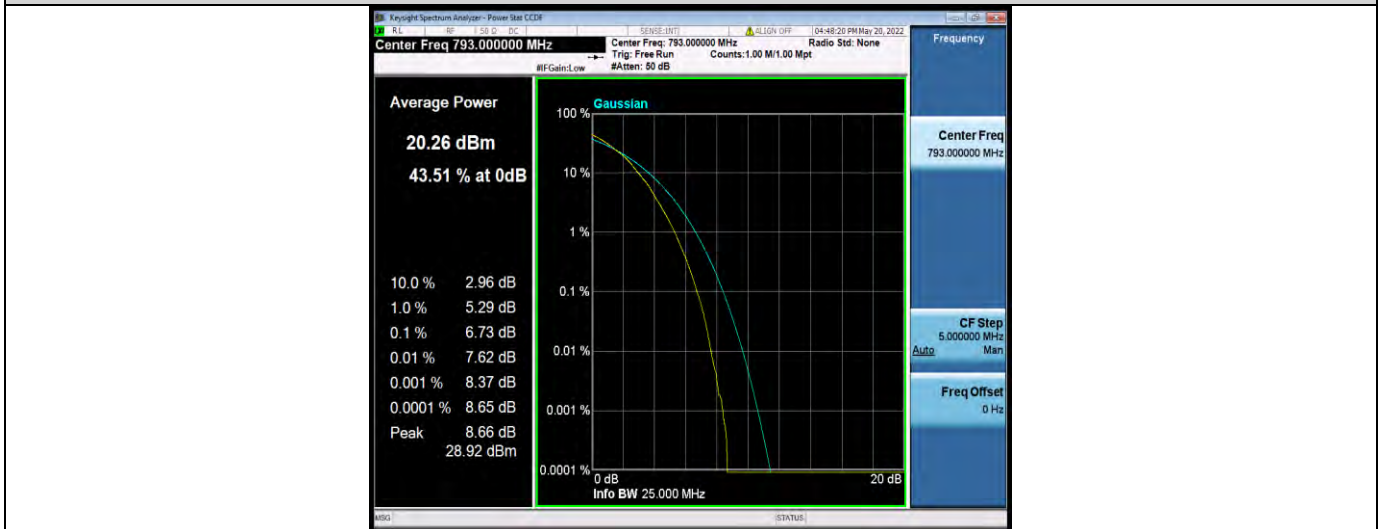
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Band14-5MHz-64QAM-23330-1RB#0



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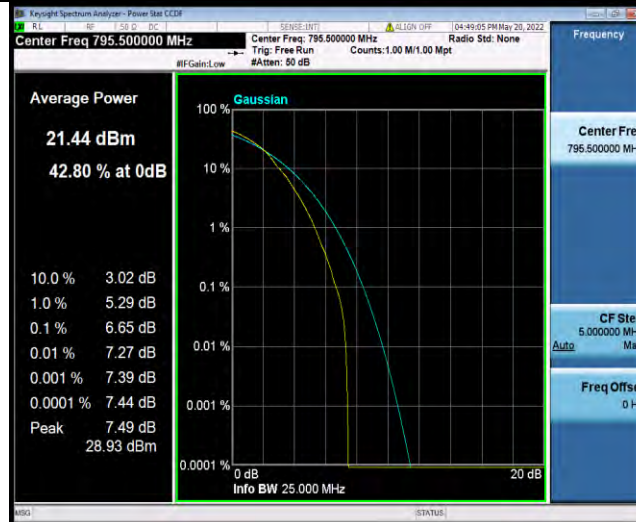


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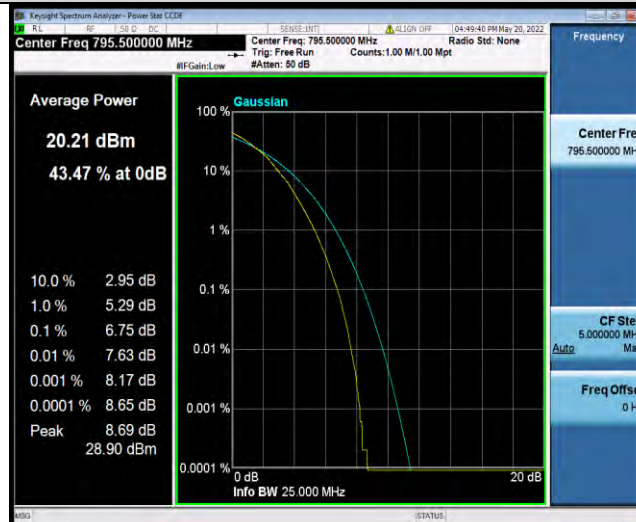


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Band14-5MHz-64QAM-23355-25RB#0

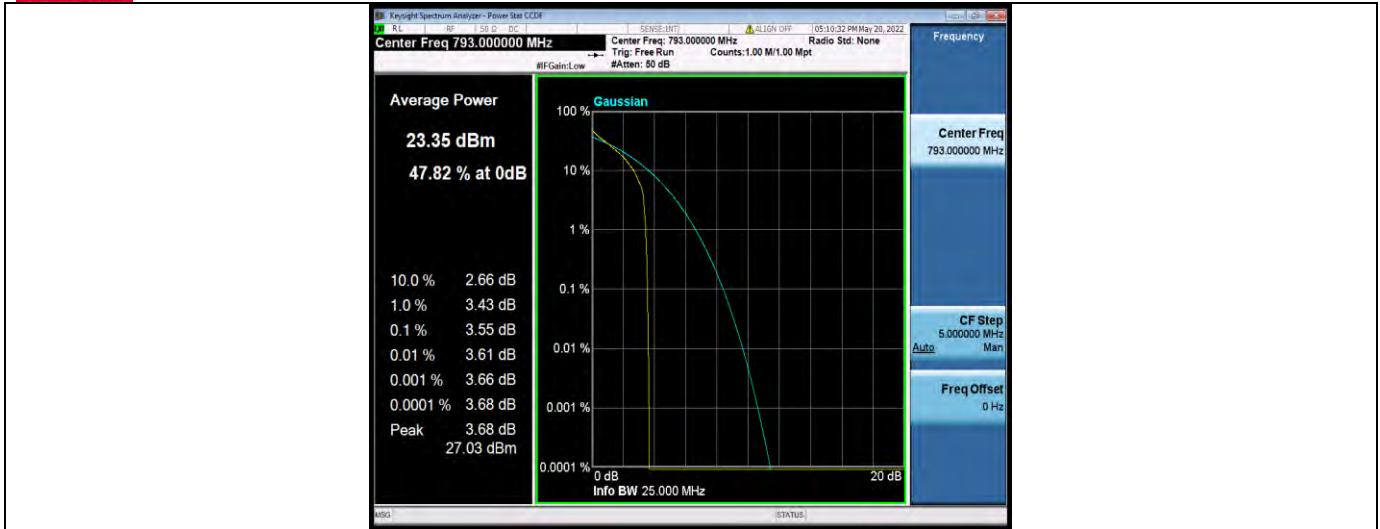


Band14-10MHz-QPSK-23330-1RB#0

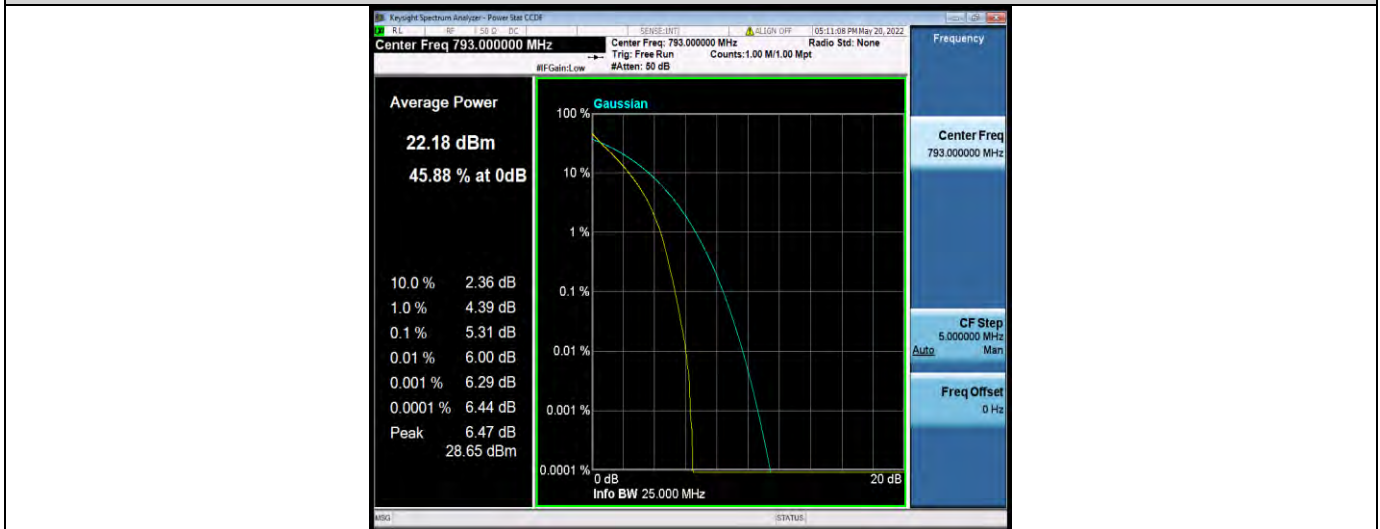
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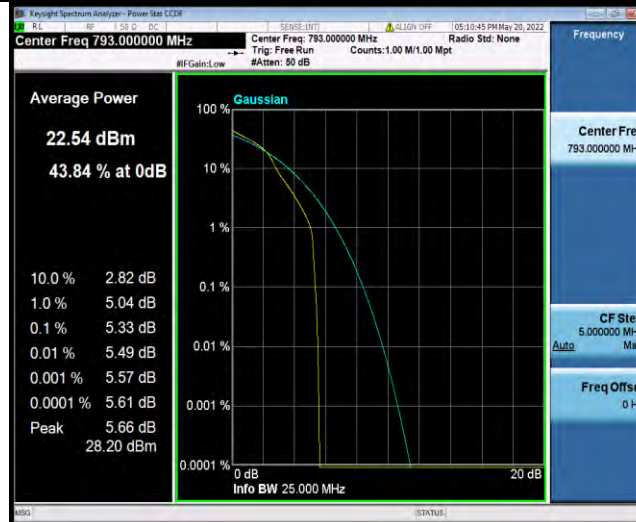
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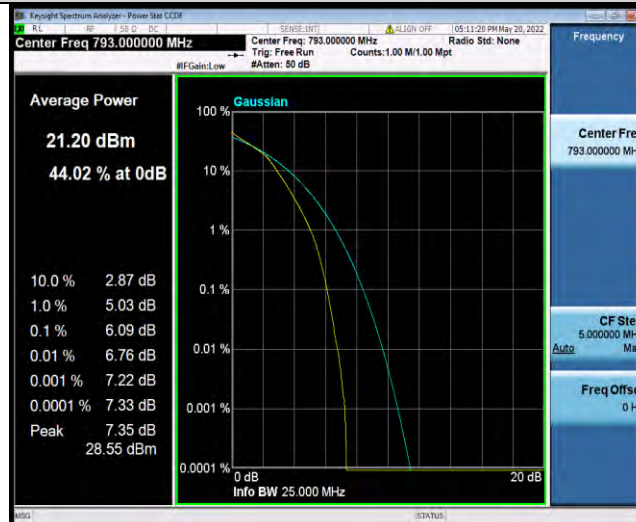
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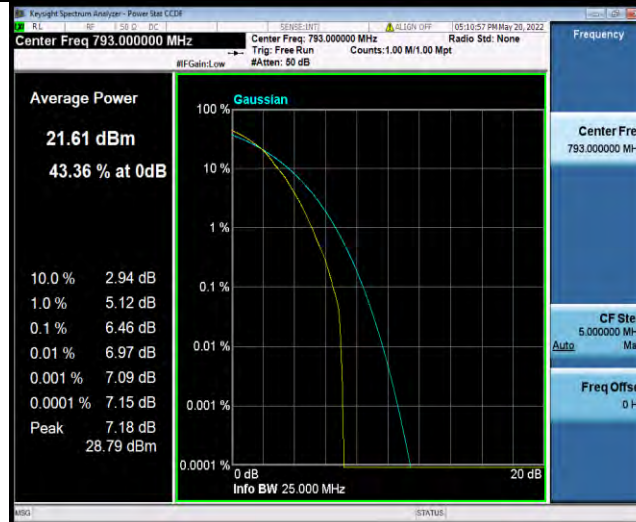
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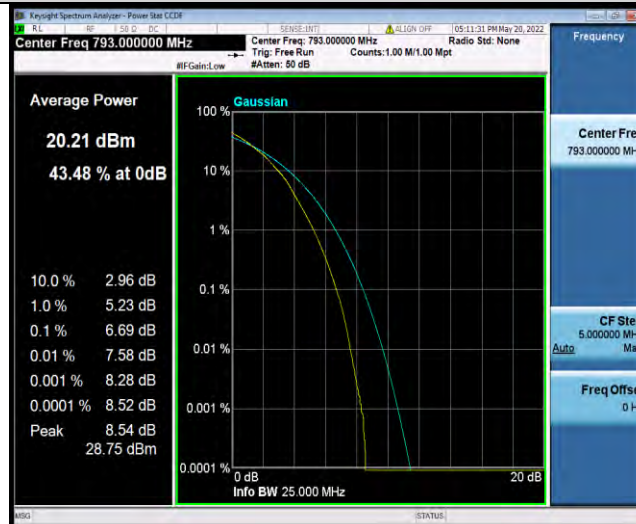
Band14-10MHz-16QAM-23330-50RB#0



Band14-10MHz-64QAM-23330-1RB#0



Band14-10MHz-64QAM-23330-50RB#0





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26dB Bandwidth and Occupied Bandwidth

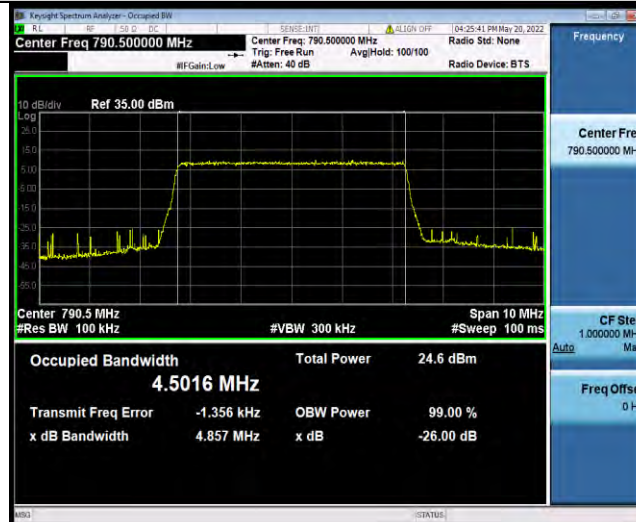
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	4.5016	4.857	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.5039	4.849	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.5018	4.839	PASS
Band14	5MHz	16QAM	23305	25RB#0	4.5024	4.869	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.5011	4.876	PASS
Band14	5MHz	16QAM	23355	25RB#0	4.5027	4.871	PASS
Band14	5MHz	64QAM	23305	25RB#0	4.5033	4.860	PASS
Band14	5MHz	64QAM	23330	25RB#0	4.5028	4.871	PASS
Band14	5MHz	64QAM	23355	25RB#0	4.5073	4.853	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.9636	9.570	PASS
Band14	10MHz	16QAM	23330	50RB#0	8.9812	9.528	PASS
Band14	10MHz	64QAM	23330	50RB#0	8.9647	9.534	PASS

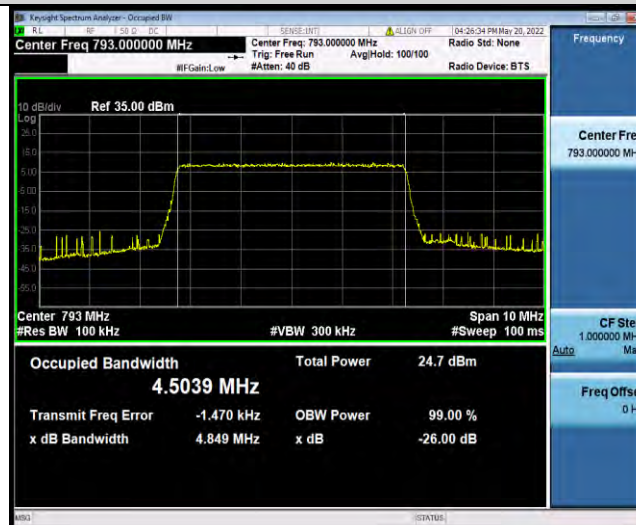


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Test Graphs

Band14-5MHz-QPSK-23305-25RB#0



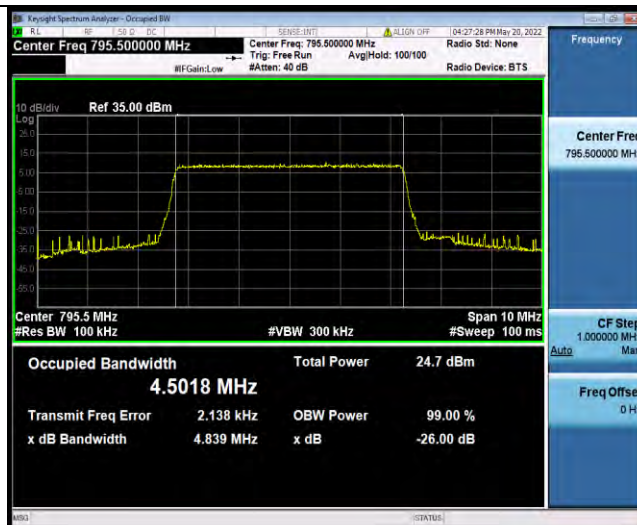
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Band14-5MHz-QPSK-23355-25RB#0



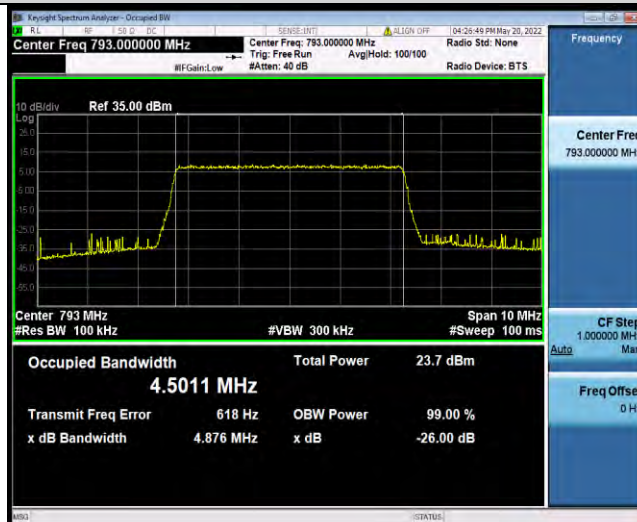
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Band14-5MHz-16QAM-23305-25RB#0



Band14-5MHz-16QAM-23330-25RB#0



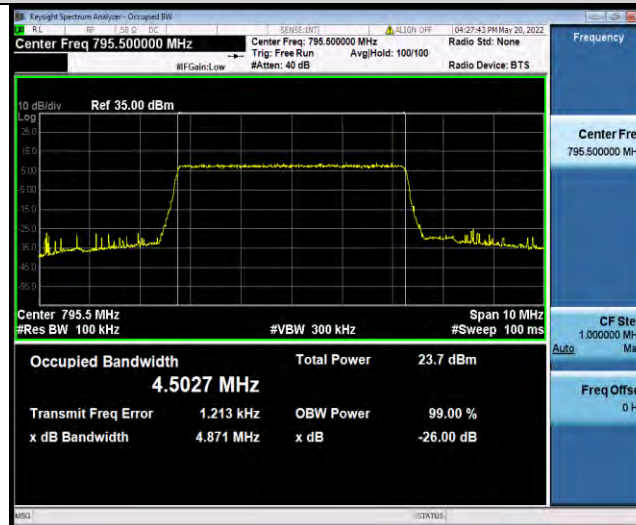
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Band14-5MHz-16QAM-23355-25RB#0



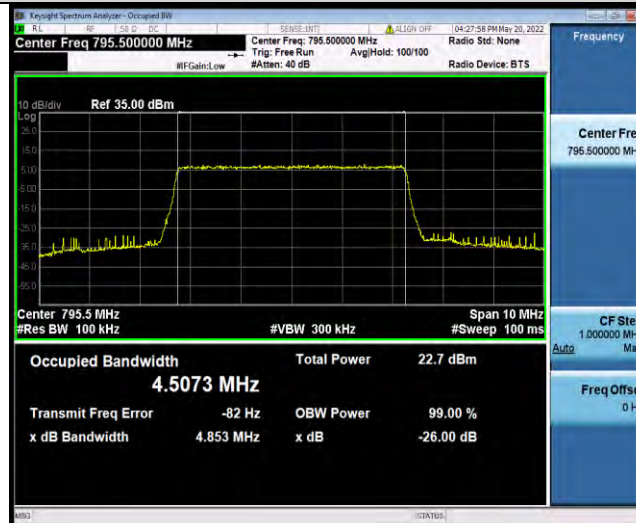
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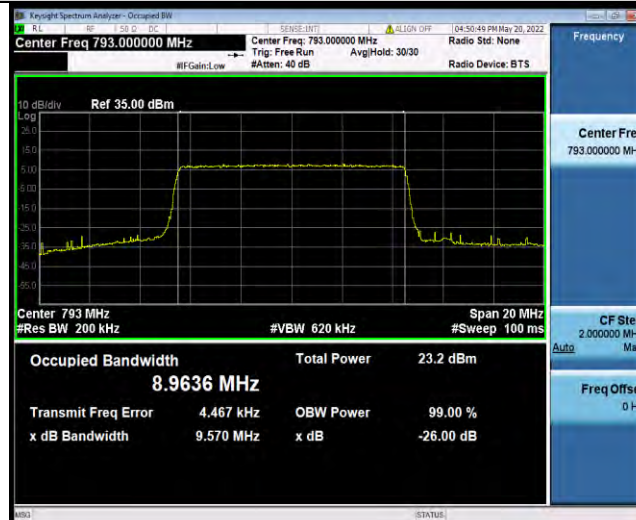
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Band14-5MHz-64QAM-23355-25RB#0



Band14-10MHz-QPSK-23330-50RB#0





Band14-10MHz-16QAM-23330-50RB#0



Band14-10MHz-64QAM-23330-50RB#0





BUREAU VERITAS Test Report No.: W7L-220214W001RF04

Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band14	5MHz	QPSK	23305	1RB#0	-27.39	PASS
Band14	5MHz	QPSK	23305	25RB#0	-23.26	PASS
Band14	5MHz	QPSK	23355	1RB#24	-25.52	PASS
Band14	5MHz	QPSK	23355	25RB#0	-23.88	PASS
Band14	5MHz	16QAM	23305	1RB#0	-29.09	PASS
Band14	5MHz	16QAM	23305	25RB#0	-24.39	PASS
Band14	5MHz	16QAM	23355	1RB#24	-29.10	PASS
Band14	5MHz	16QAM	23355	25RB#0	-23.57	PASS
Band14	5MHz	64QAM	23305	1RB#0	-29.91	PASS
Band14	5MHz	64QAM	23305	25RB#0	-24.61	PASS
Band14	5MHz	64QAM	23355	1RB#24	-30.02	PASS
Band14	5MHz	64QAM	23355	25RB#0	-25.23	PASS
Band14	10MHz	QPSK	23330	1RB#0	-22.88,-44.26	PASS
Band14	10MHz	QPSK	23330	1RB#49	-44.06,-24.66	PASS
Band14	10MHz	QPSK	23330	50RB#0	-25.18,-26.75	PASS
Band14	10MHz	16QAM	23330	1RB#0	-23.30,-45.07	PASS
Band14	10MHz	16QAM	23330	1RB#49	-44.47,-25.44	PASS
Band14	10MHz	16QAM	23330	50RB#0	-27.86,-27.70	PASS
Band14	10MHz	64QAM	23330	1RB#0	-22.63,-45.55	PASS

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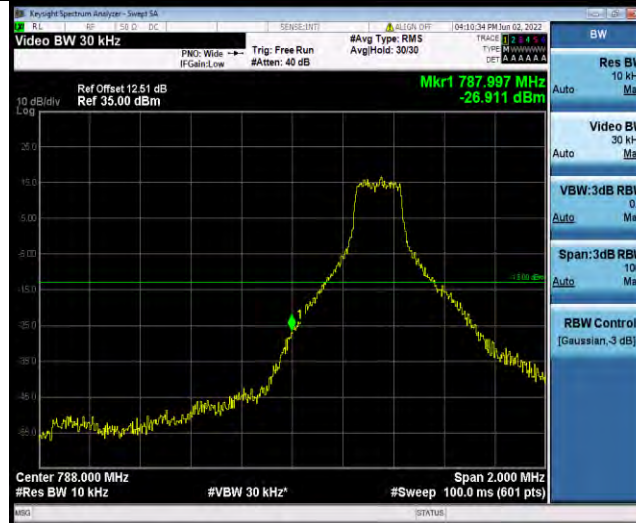
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Band14	10MHz	64QAM	23330	1RB#49	-45.57,-28.82	PASS
Band14	10MHz	64QAM	23330	50RB#0	-28.34,-29.62	PASS



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Test Graphs

Band14-5MHz-QPSK-23305-1RB#0



Band14-5MHz-QPSK-23305-25RB#0

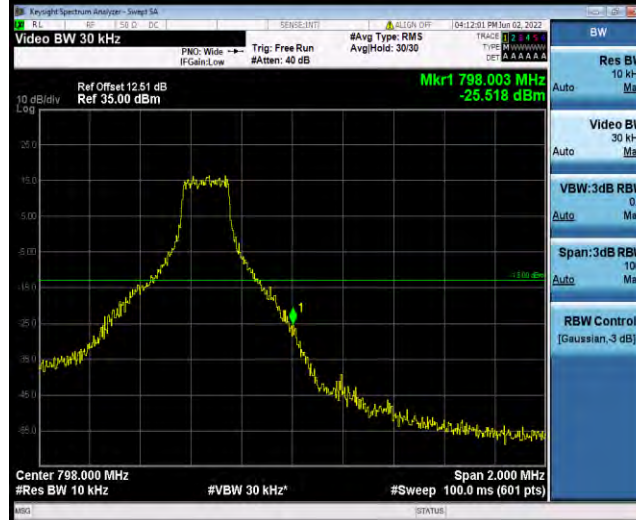


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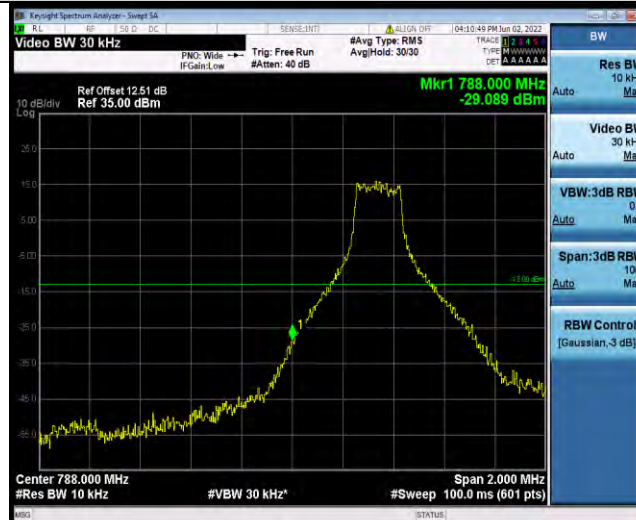
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Band14-5MHz-QPSK-23355-25RB#0



Band14-5MHz-16QAM-23305-1RB#0



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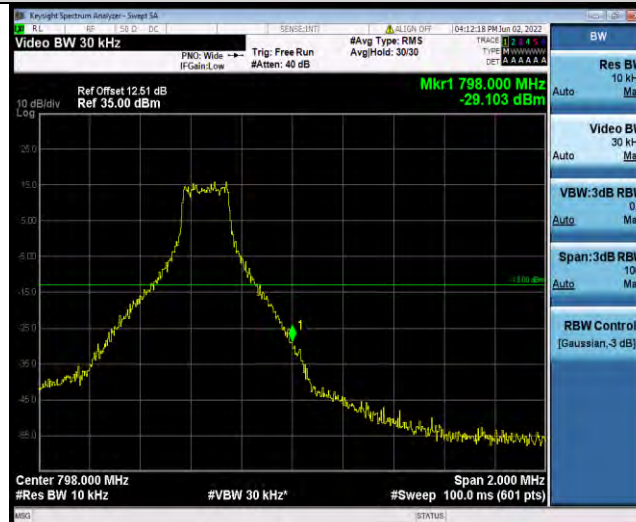
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Band14-5MHz-16QAM-23305-25RB#0



Band14-5MHz-16QAM-23355-1RB#24



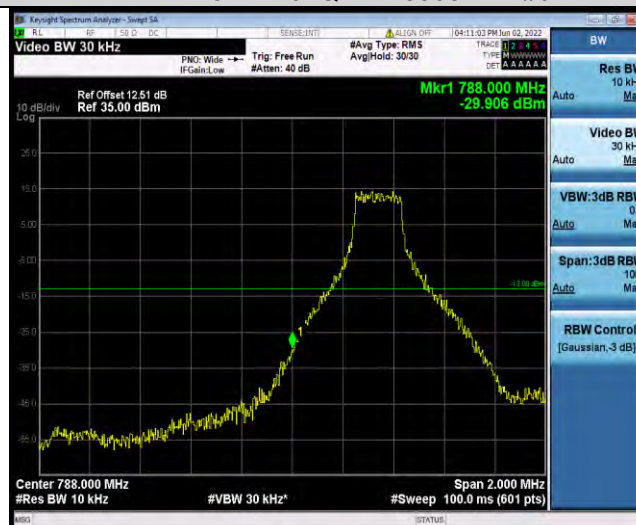
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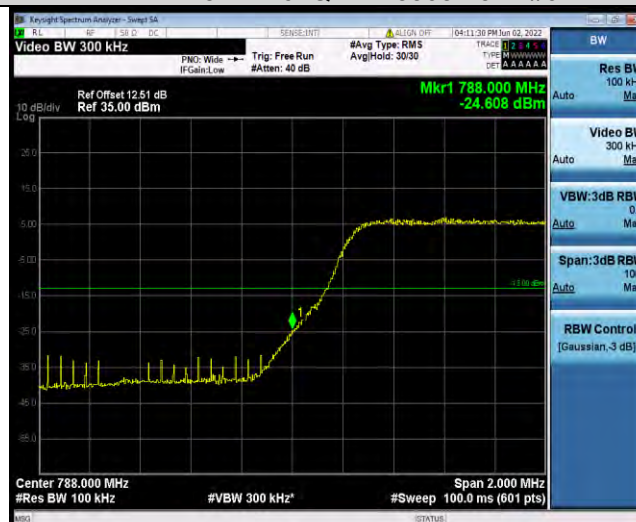
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Band14-5MHz-64QAM-23305-1RB#0



Band14-5MHz-64QAM-23305-25RB#0



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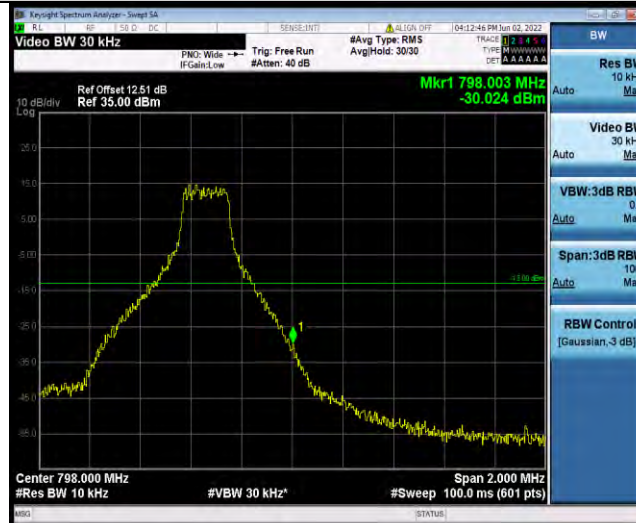
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Band14-5MHz-64QAM-23355-25RB#0



Band14-10MHz-QPSK-23330-1RB#0

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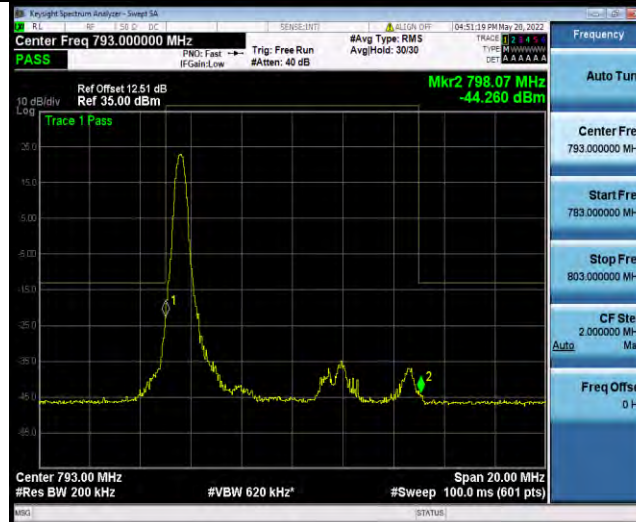
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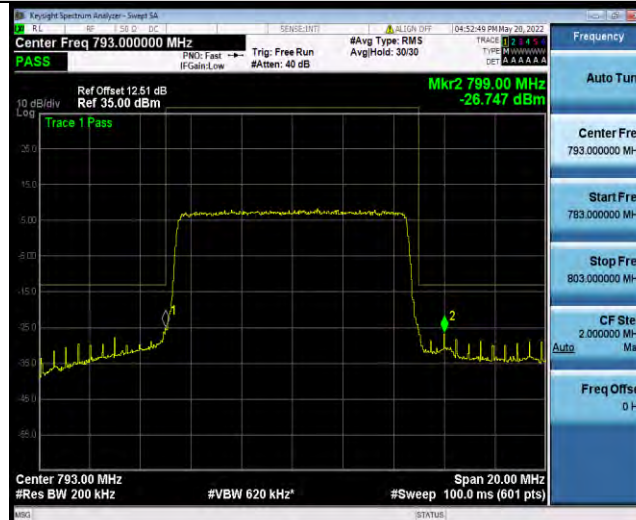
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Band14-10MHz-QPSK-23330-1RB#49



Band14-10MHz-QPSK-23330-50RB#0



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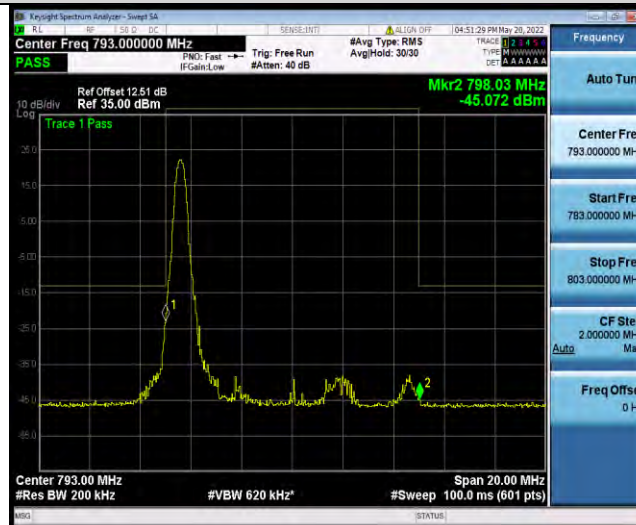
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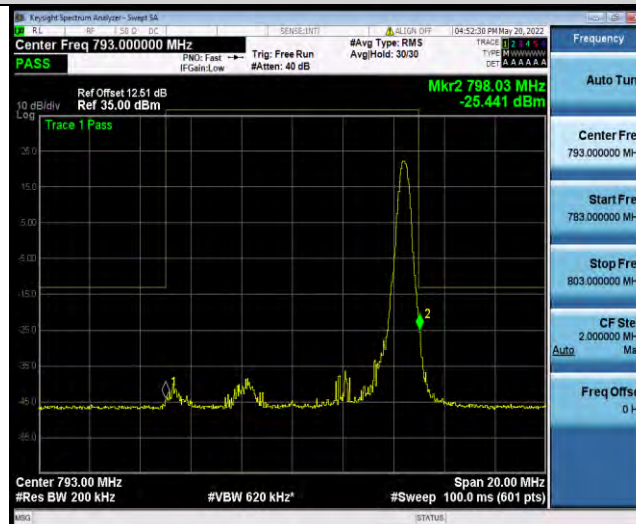
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Band14-10MHz-16QAM-23330-1RB#0



Band14-10MHz-16QAM-23330-1RB#49



Band14-10MHz-16QAM-23330-50RB#0

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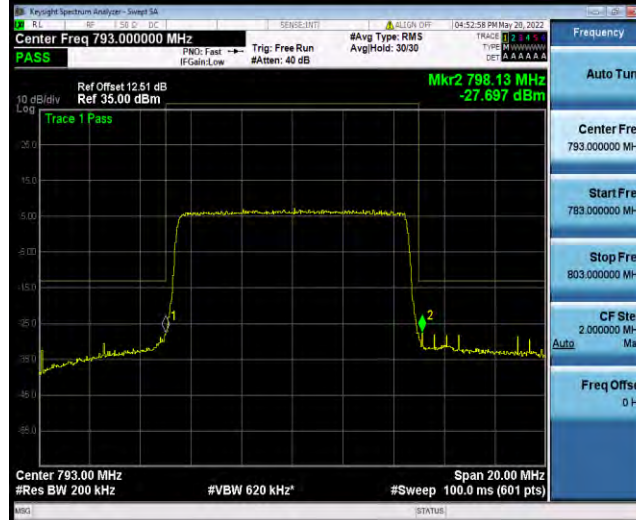
No.B102, Dazu Chuangxin Mansion, North of Beihuan
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District, Shenzhen, Guangdong, China

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Fax: +86 755 8869 6577
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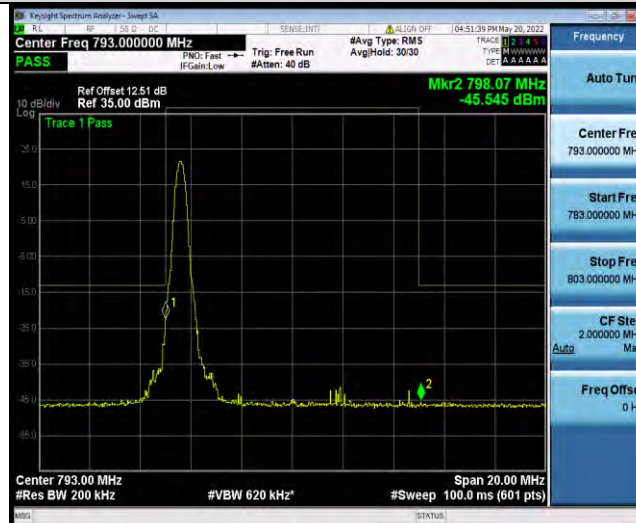


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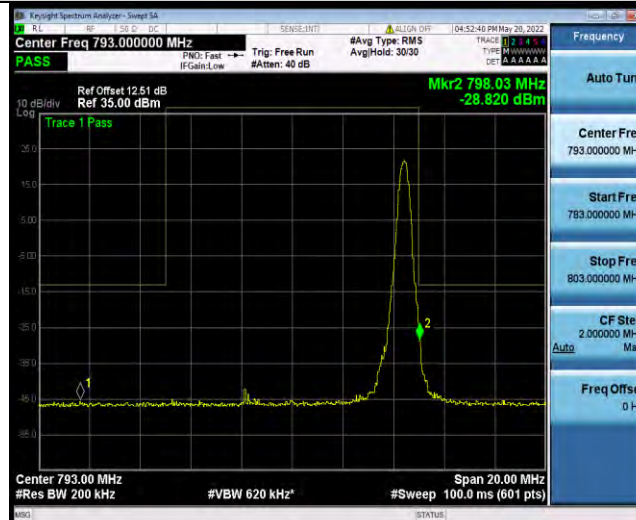
Test Report No.: W7L-220214W001RF04



Band14-10MHz-64QAM-23330-1RB#0



Band14-10MHz-64QAM-23330-1RB#49



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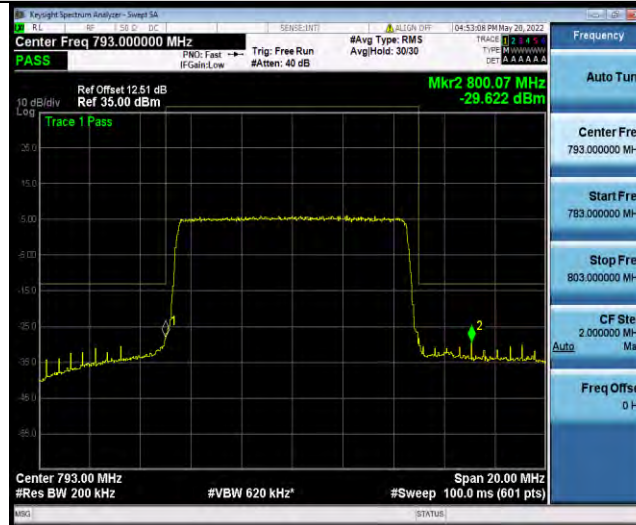
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Test Report No.: W7L-220214W001RF04

Band14-10MHz-64QAM-23330-50RB#0



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BUREAU VERITAS Test Report No.: W7L-220214W001RF04
Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band14	5MHz	QPSK	23305	1RB#0	Range1:30~1000MHz	-40.32	PASS
Band14	5MHz	QPSK	23305	1RB#0	Range2:1000~10000MHz	-34.41	PASS
Band14	5MHz	QPSK	23305	1RB#0	Range3:1559~1610MHz	-47.81	PASS
Band14	5MHz	QPSK	23330	1RB#0	Range1:30~1000MHz	-40.44	PASS
Band14	5MHz	QPSK	23330	1RB#0	Range2:1000~10000MHz	-34.39	PASS
Band14	5MHz	QPSK	23330	1RB#0	Range3:1559~1610MHz	-47.96	PASS
Band14	5MHz	QPSK	23355	1RB#0	Range1:30~1000MHz	-39.92	PASS
Band14	5MHz	QPSK	23355	1RB#0	Range2:1000~10000MHz	-34.5	PASS
Band14	5MHz	QPSK	23355	1RB#0	Range3:1559~1610MHz	-47.72	PASS
Band14	5MHz	16QAM	23305	1RB#0	Range1:30~1000MHz	-40.82	PASS
Band14	5MHz	16QAM	23305	1RB#0	Range2:1000~10000MHz	-34.71	PASS
Band14	5MHz	16QAM	23305	1RB#0	Range3:1559~1610MHz	-48.82	PASS
Band14	5MHz	16QAM	23330	1RB#0	Range1:30~1000MHz	-40.26	PASS
Band14	5MHz	16QAM	23330	1RB#0	Range2:1000~10000MHz	-34.15	PASS
Band14	5MHz	16QAM	23330	1RB#0	Range3:1559~1610MHz	-48.23	PASS
Band14	5MHz	16QAM	23355	1RB#0	Range1:30~1000MHz	-40.33	PASS
Band14	5MHz	16QAM	23355	1RB#0	Range2:1000~10000MHz	-33.65	PASS
Band14	5MHz	16QAM	23355	1RB#0	Range3:1559~1610MHz	-48.34	PASS
Band14	5MHz	64QAM	23305	1RB#0	Range1:30~1000MHz	-40.27	PASS

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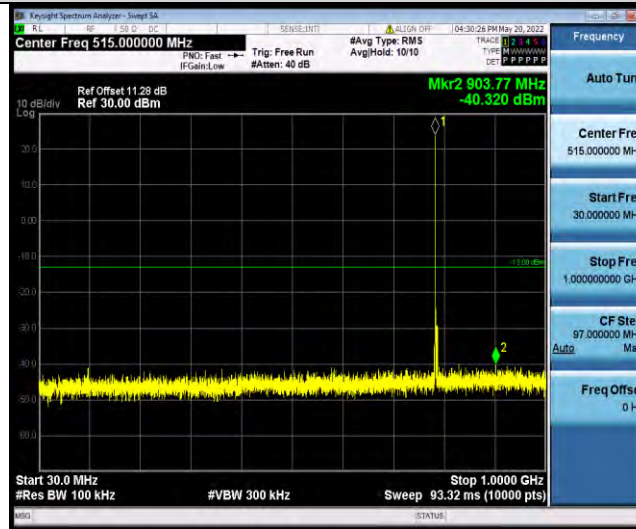
Test Report No.: W7L-220214W001RF04

Band14	5MHz	64QAM	23305	1RB#0	Range2:1000~10000MHz	-34.85	PASS
Band14	5MHz	64QAM	23305	1RB#0	Range3:1559~1610MHz	-50.3	PASS
Band14	5MHz	64QAM	23330	1RB#0	Range1:30~1000MHz	-40.57	PASS
Band14	5MHz	64QAM	23330	1RB#0	Range2:1000~10000MHz	-34.8	PASS
Band14	5MHz	64QAM	23330	1RB#0	Range3:1559~1610MHz	-49.76	PASS
Band14	5MHz	64QAM	23355	1RB#0	Range1:30~1000MHz	-40.06	PASS
Band14	5MHz	64QAM	23355	1RB#0	Range2:1000~10000MHz	-34.16	PASS
Band14	5MHz	64QAM	23355	1RB#0	Range3:1559~1610MHz	-50.22	PASS
Band14	10MHz	QPSK	23330	1RB#0	Range1:30~1000MHz	-40.19	PASS
Band14	10MHz	QPSK	23330	1RB#0	Range2:1000~10000MHz	-34.18	PASS
Band14	10MHz	QPSK	23330	1RB#0	Range3:1559~1610MHz	-47.63	PASS
Band14	10MHz	16QAM	23330	1RB#0	Range1:30~1000MHz	-39.17	PASS
Band14	10MHz	16QAM	23330	1RB#0	Range2:1000~10000MHz	-33.76	PASS
Band14	10MHz	16QAM	23330	1RB#0	Range3:1559~1610MHz	-48.37	PASS
Band14	10MHz	64QAM	23330	1RB#0	Range1:30~1000MHz	-40.46	PASS
Band14	10MHz	64QAM	23330	1RB#0	Range2:1000~10000MHz	-33.48	PASS
Band14	10MHz	64QAM	23330	1RB#0	Range3:1559~1610MHz	-49.88	PASS

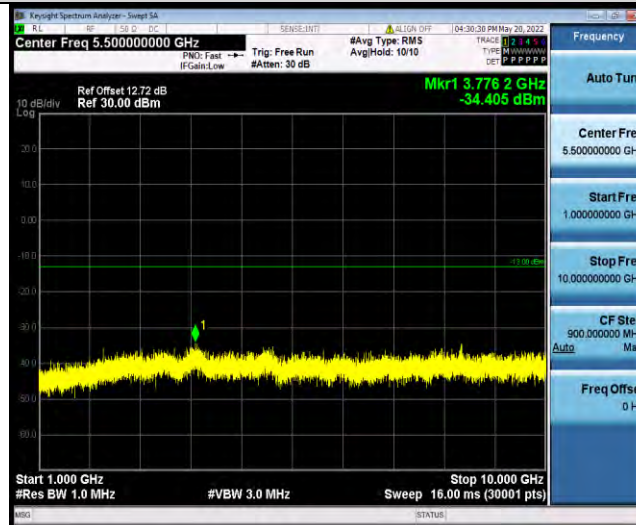


BUREAU VERITAS Test Report No.: W7L-220214W001RF04
Test Graphs

Band14-5MHz-QPSK-23305-1RB#0-Range1:30~1000MHz



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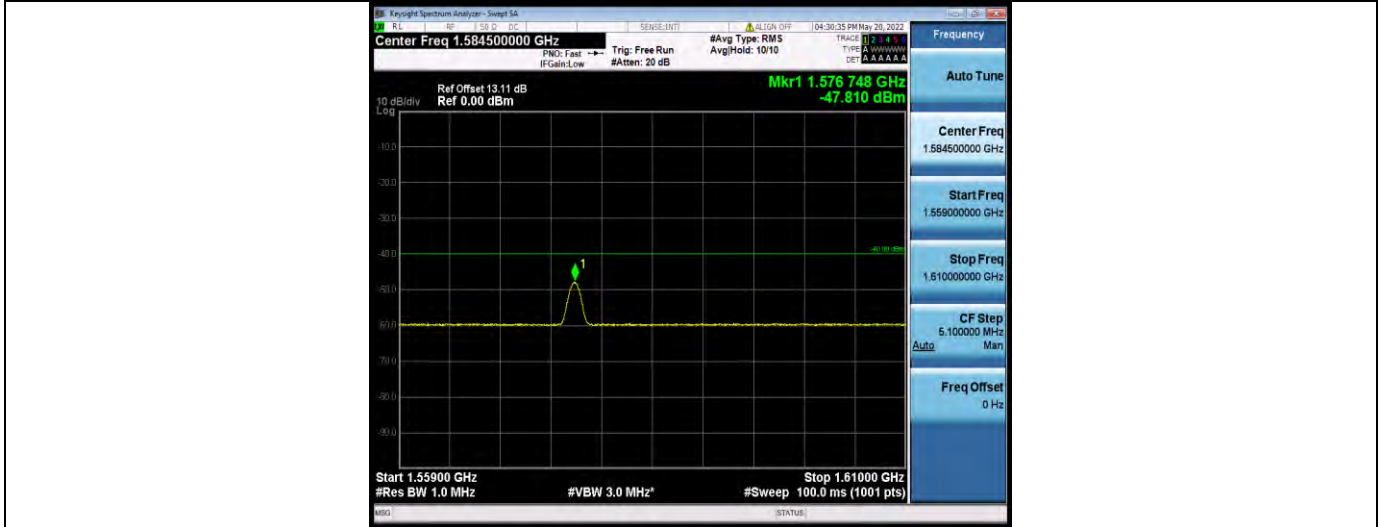


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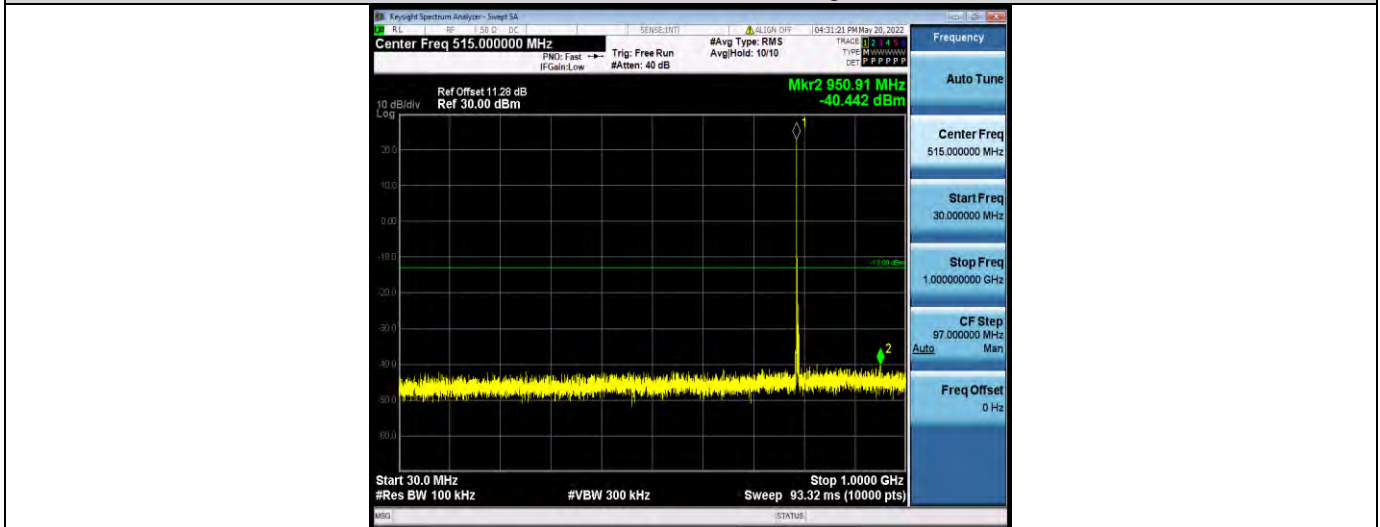


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Test Report No.: W7L-220214W001RF04



Band14-5MHz-QPSK-23330-1RB#0-Range1:30~1000MHz



Band14-5MHz-QPSK-23330-1RB#0-Range2:1000~10000MHz

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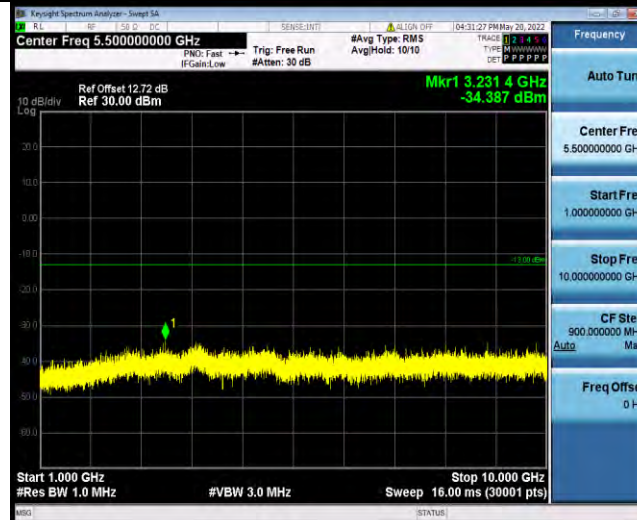
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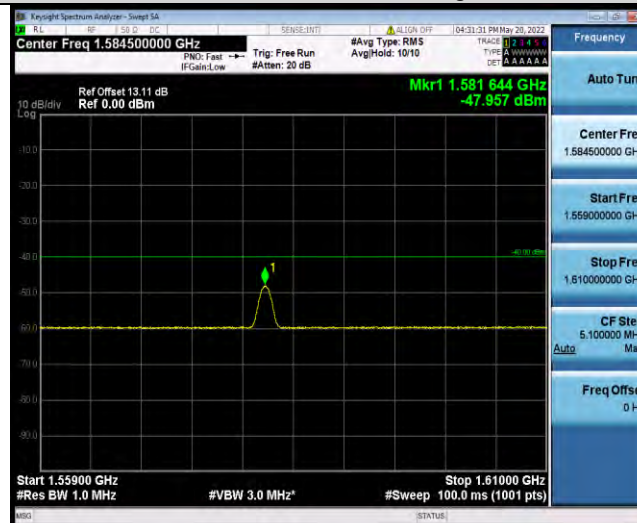


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Band14-5MHz-QPSK-23330-1RB#0-Range3:1559~1610MHz



Band14-5MHz-QPSK-23355-1RB#0-Range1:30~1000MHz

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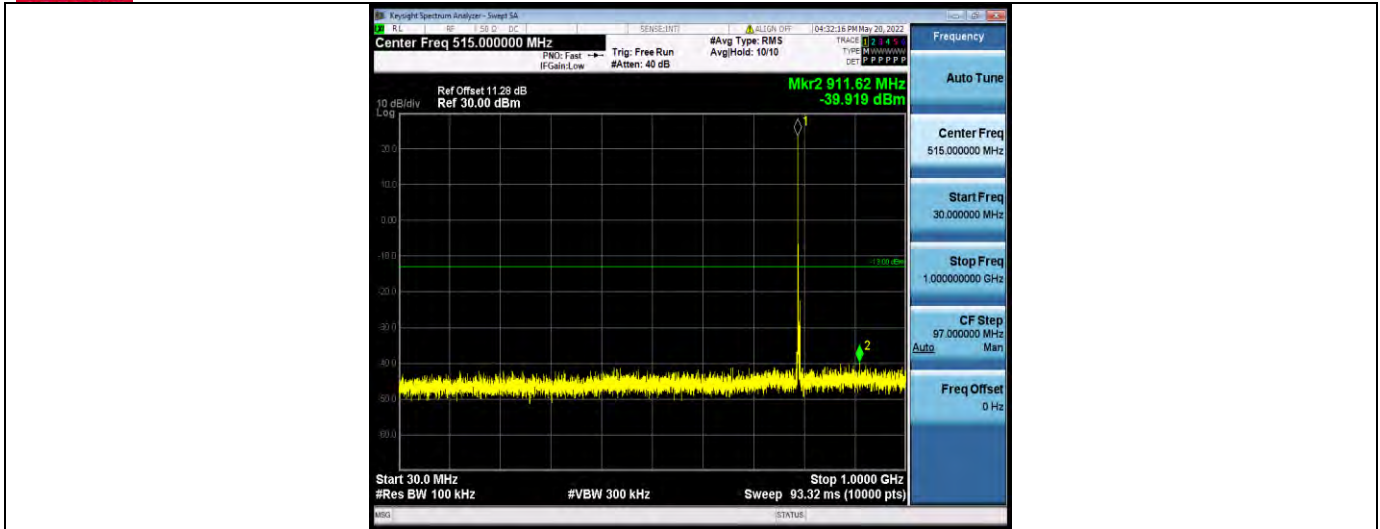
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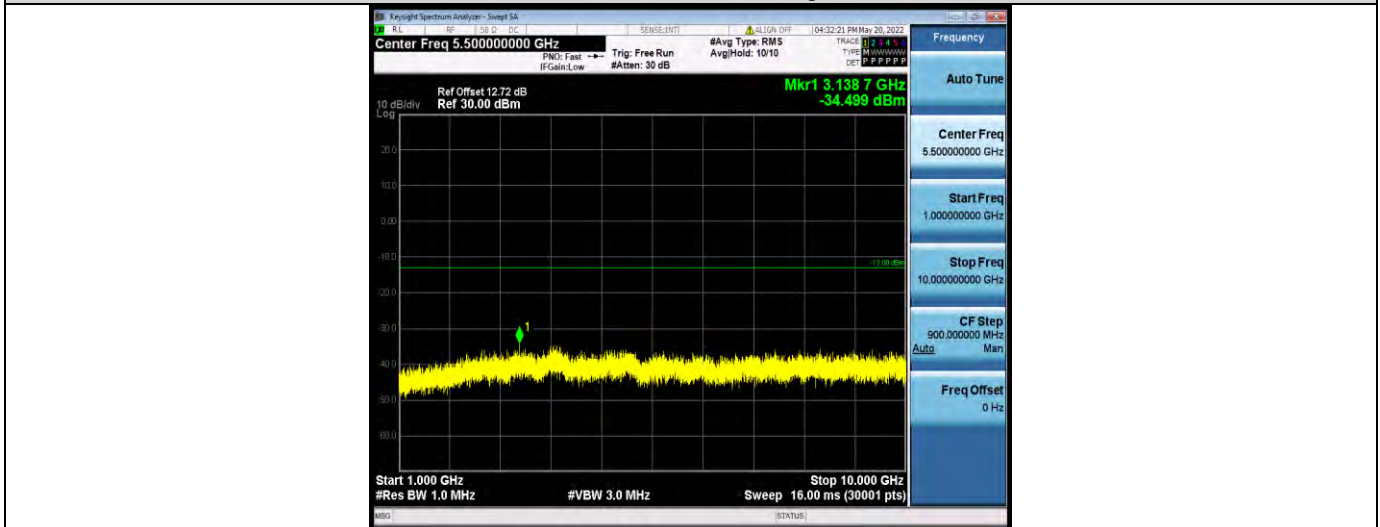


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Band14-5MHz-QPSK-23355-1RB#0-Range2:1000~10000MHz



Band14-5MHz-QPSK-23355-1RB#0-Range3:1559~1610MHz

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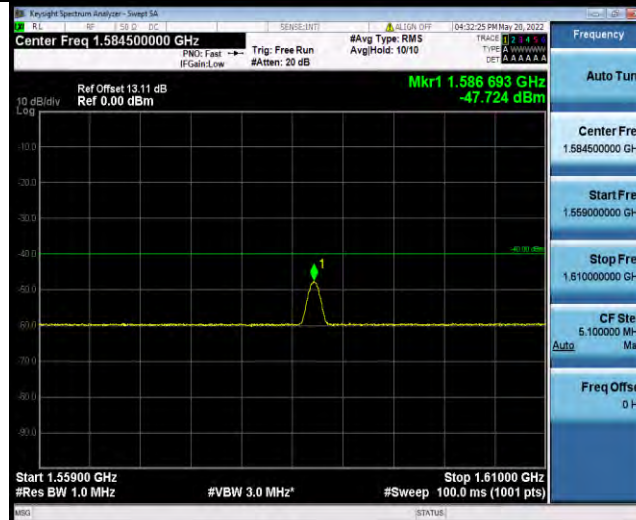
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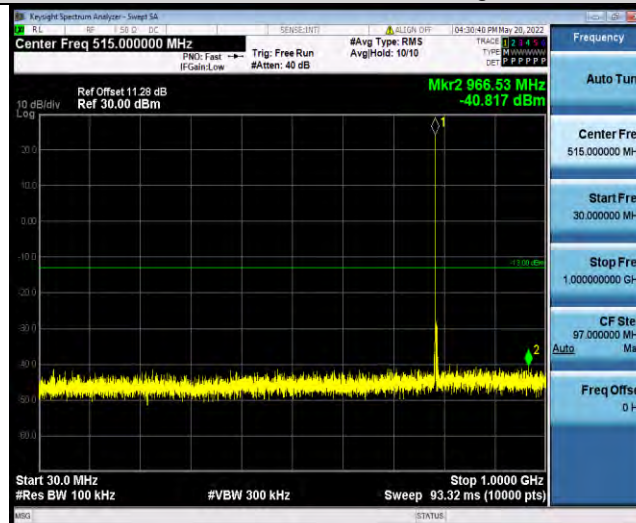


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Test Report No.: W7L-220214W001RF04



Band14-5MHz-16QAM-23305-1RB#0-Range1:30~1000MHz



Band14-5MHz-16QAM-23305-1RB#0-Range2:1000~10000MHz

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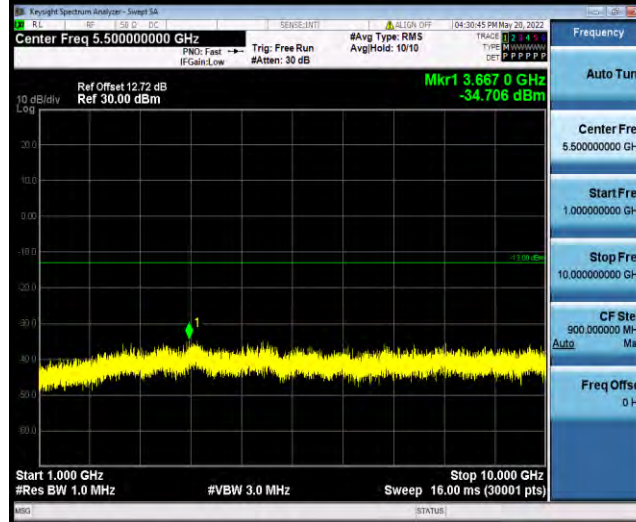
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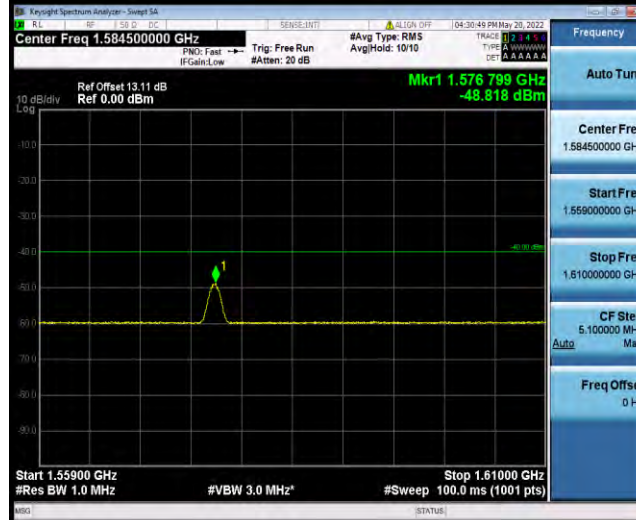


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Band14-5MHz-16QAM-23305-1RB#0-Range3:1559~1610MHz



Band14-5MHz-16QAM-23330-1RB#0-Range1:30~1000MHz

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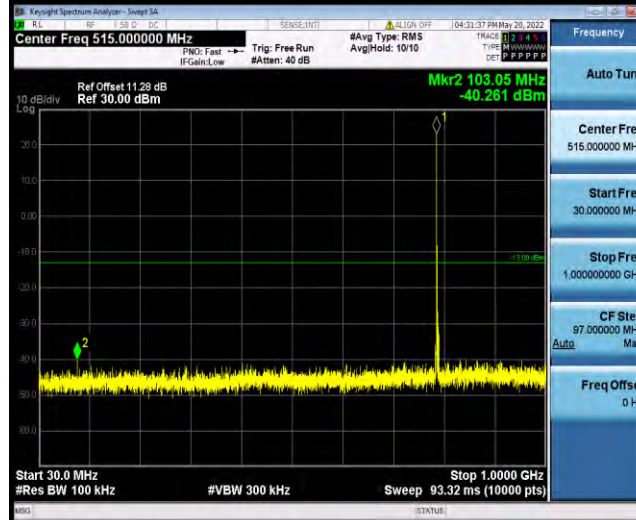
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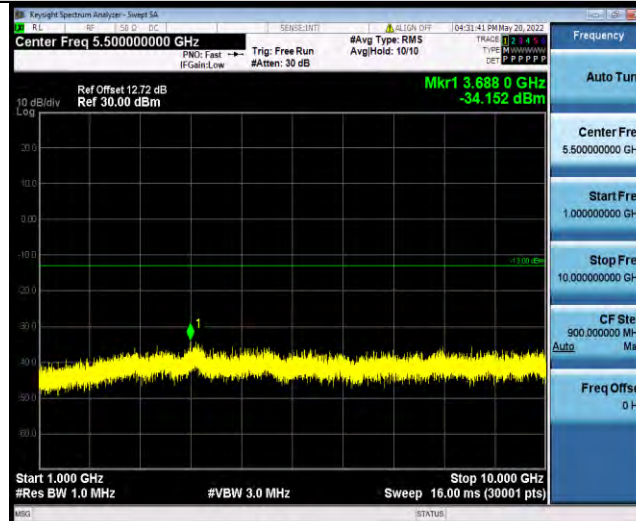


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Test Report No.: W7L-220214W001RF04



Band14-5MHz-16QAM-23330-1RB#0-Range2:1000~10000MHz



Band14-5MHz-16QAM-23330-1RB#0-Range3:1559~1610MHz

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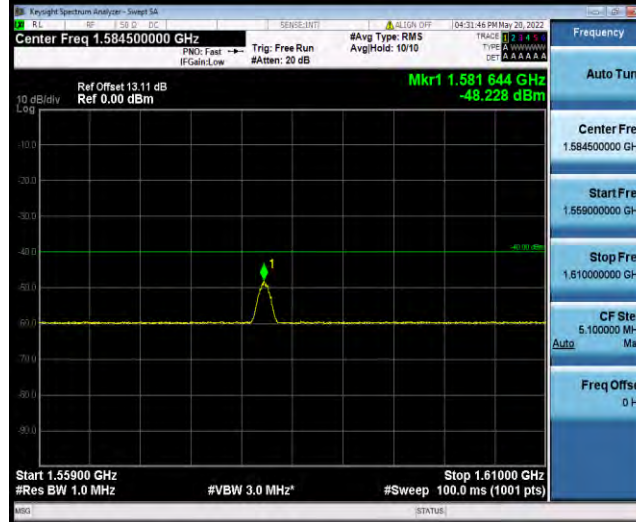
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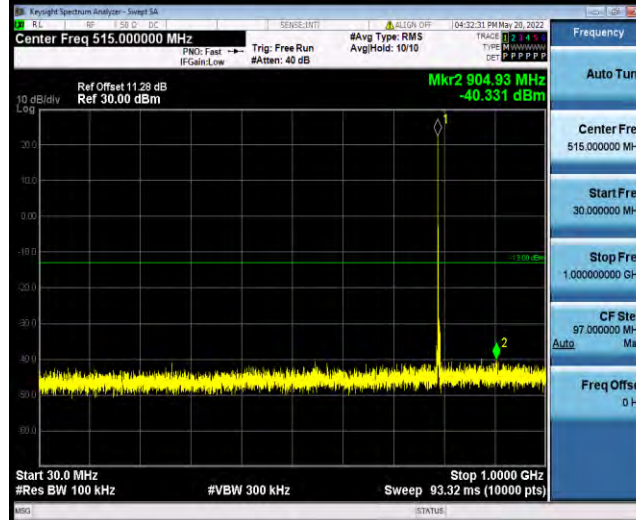


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Test Report No.: W7L-220214W001RF04



Band14-5MHz-16QAM-23355-1RB#0-Range1:30~1000MHz



Band14-5MHz-16QAM-23355-1RB#0-Range2:1000~10000MHz

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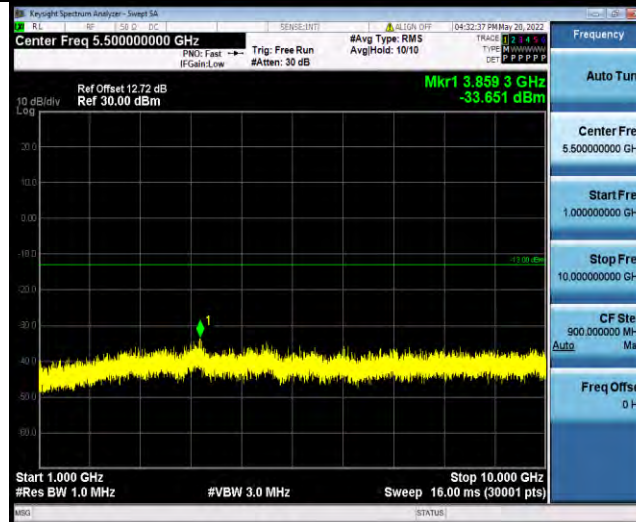
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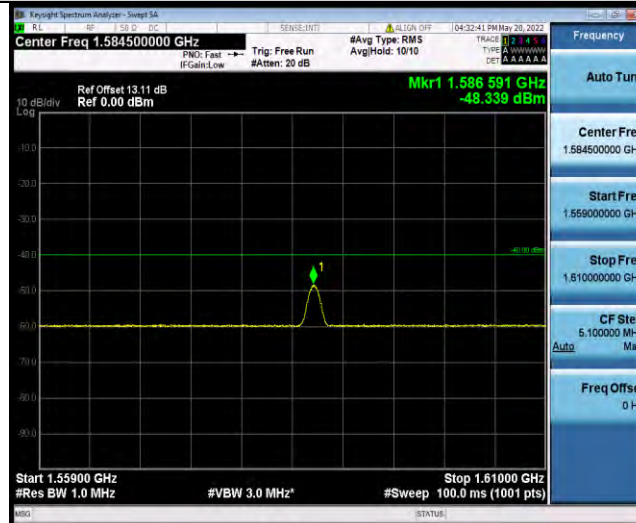


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Test Report No.: W7L-220214W001RF04



Band14-5MHz-16QAM-23355-1RB#0-Range3:1559~1610MHz



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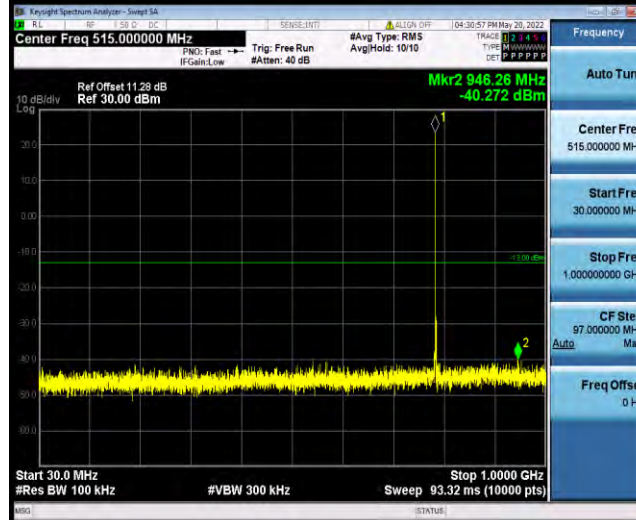
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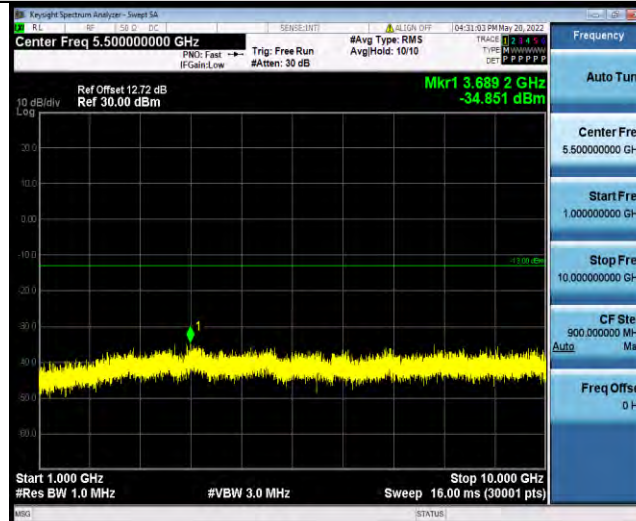


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Test Report No.: W7L-220214W001RF04



Band14-5MHz-64QAM-23305-1RB#0-Range2:1000~10000MHz



Band14-5MHz-64QAM-23305-1RB#0-Range3:1559~1610MHz

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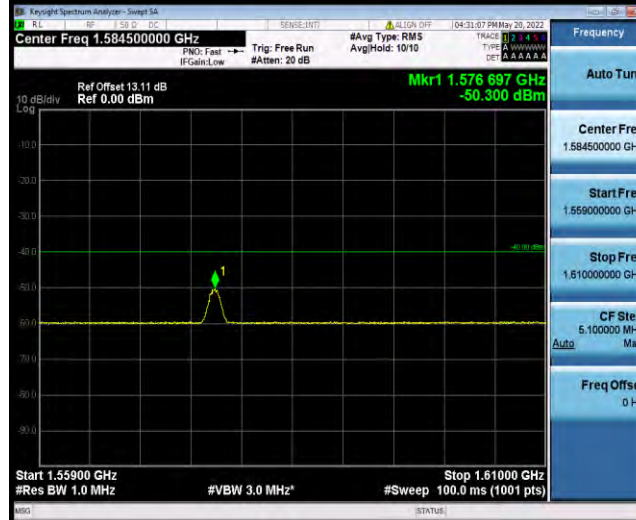
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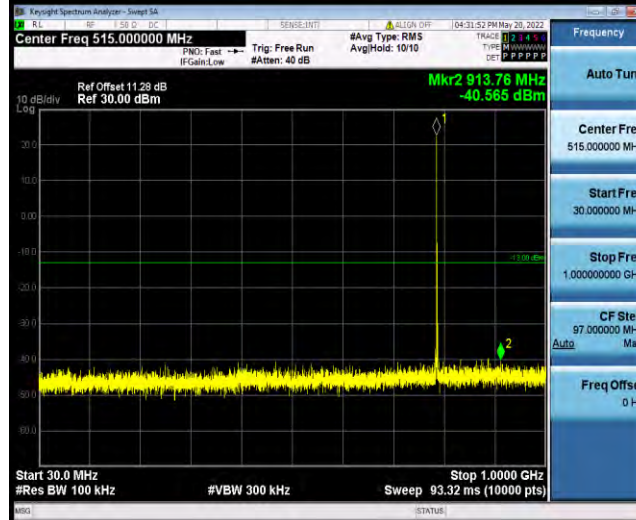


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Test Report No.: W7L-220214W001RF04



Band14-5MHz-64QAM-23330-1RB#0-Range1:30~1000MHz



Band14-5MHz-64QAM-23330-1RB#0-Range2:1000~10000MHz

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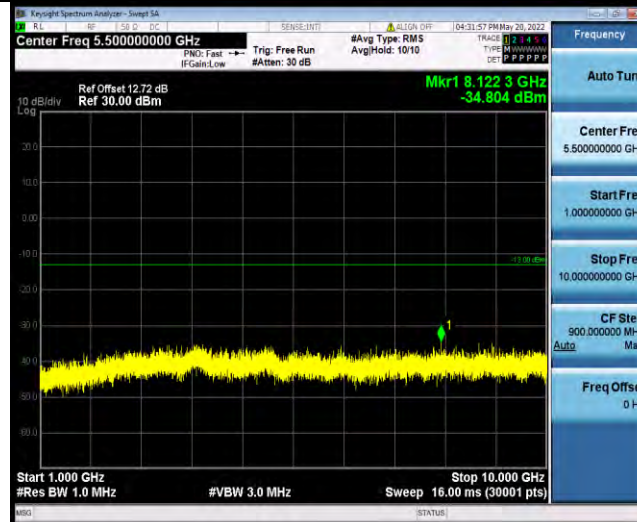
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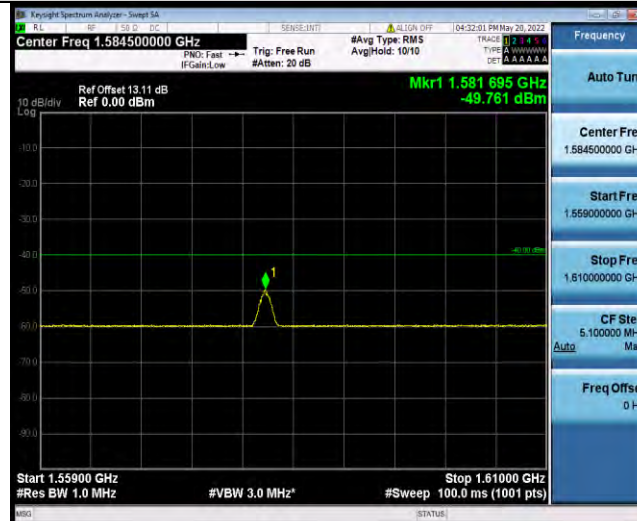


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Band14-5MHz-64QAM-23330-1RB#0-Range3:1559~1610MHz



Band14-5MHz-64QAM-23355-1RB#0-Range1:30~1000MHz

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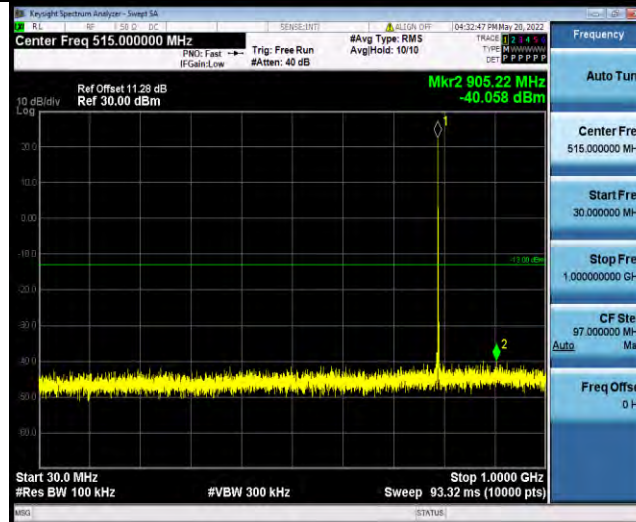
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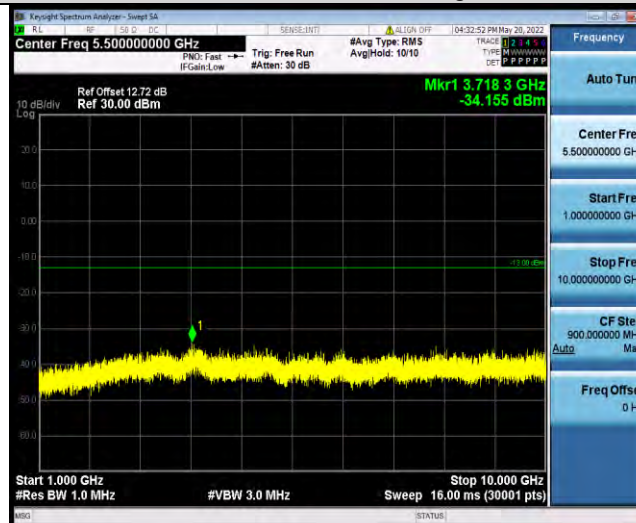


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Band14-5MHz-64QAM-23355-1RB#0-Range2:1000~10000MHz



Band14-5MHz-64QAM-23355-1RB#0-Range3:1559~1610MHz

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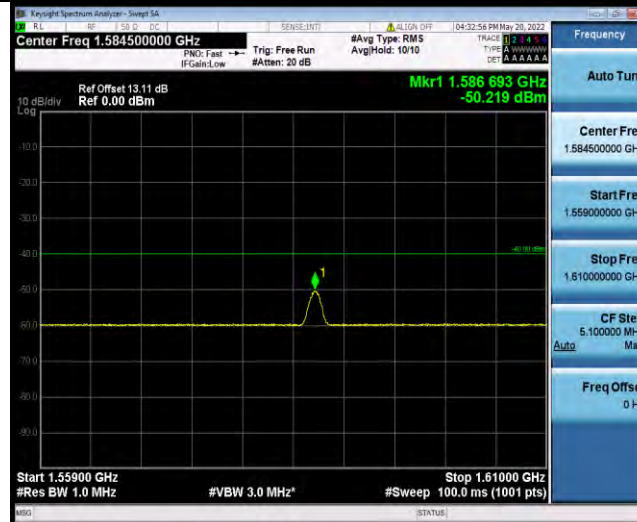
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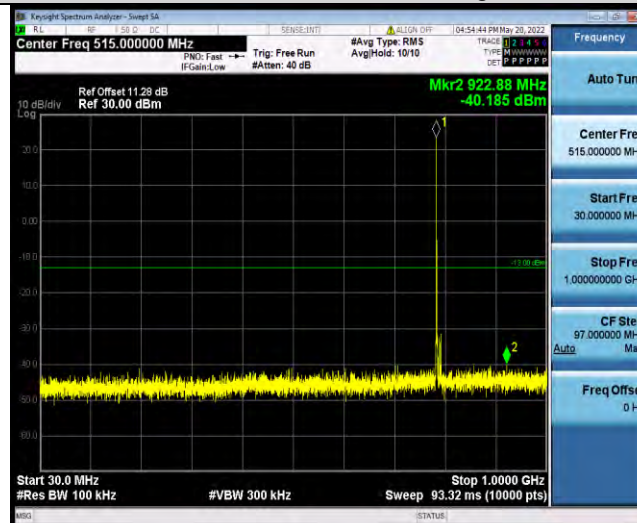


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Test Report No.: W7L-220214W001RF04



Band14-10MHz-QPSK-23330-1RB#0-Range1:30~1000MHz



Band14-10MHz-QPSK-23330-1RB#0-Range2:1000~10000MHz

BV 7Layers Communications
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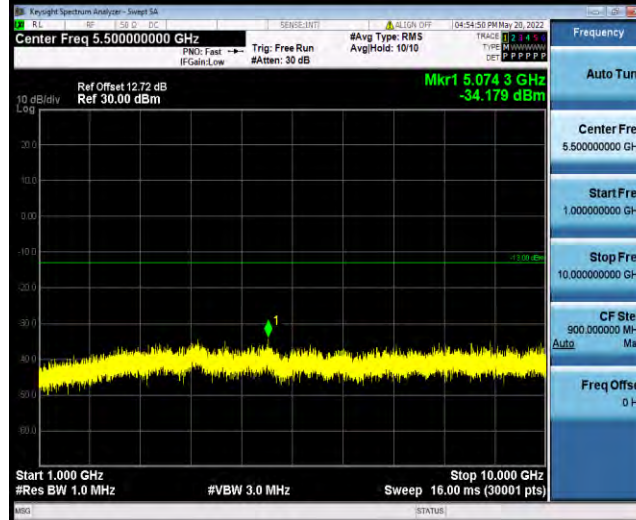
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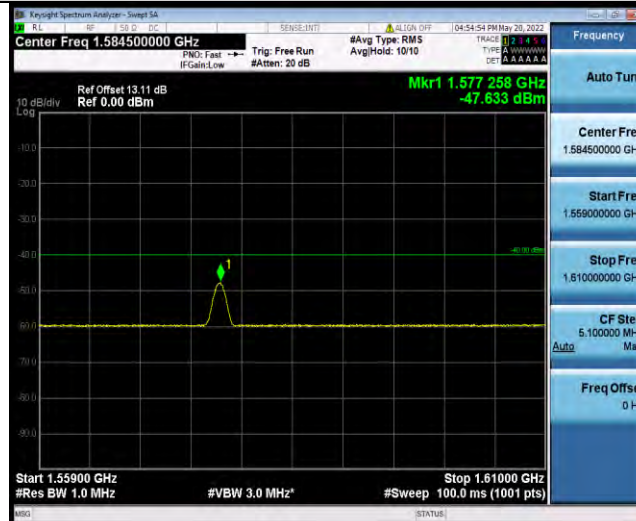


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Test Report No.: W7L-220214W001RF04



Band14-10MHz-QPSK-23330-1RB#0-Range3:1559~1610MHz



Band14-10MHz-16QAM-23330-1RB#0-Range1:30~1000MHz

BV 7Layers Communications
Technology (Shenzhen) Co., Ltd

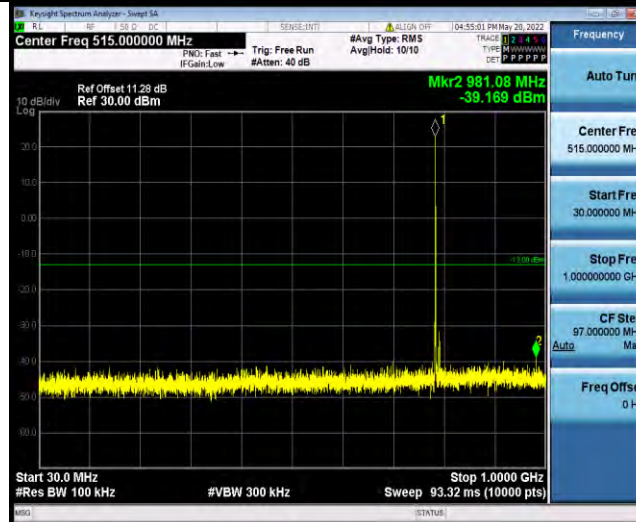
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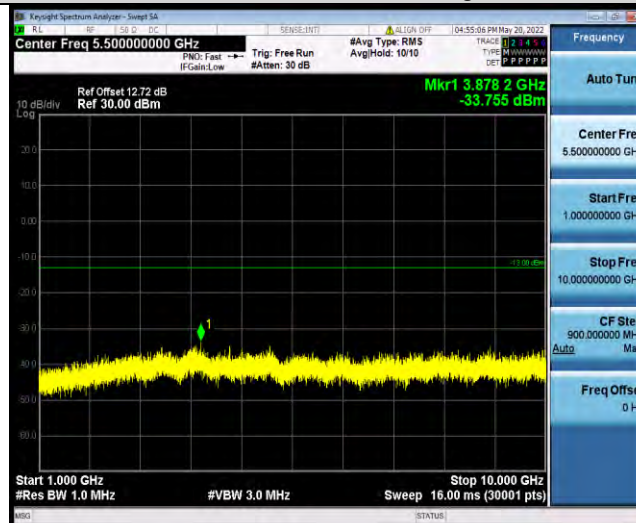


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Test Report No.: W7L-220214W001RF04



Band14-10MHz-16QAM-23330-1RB#0-Range2:1000~10000MHz



Band14-10MHz-16QAM-23330-1RB#0-Range3:1559~1610MHz

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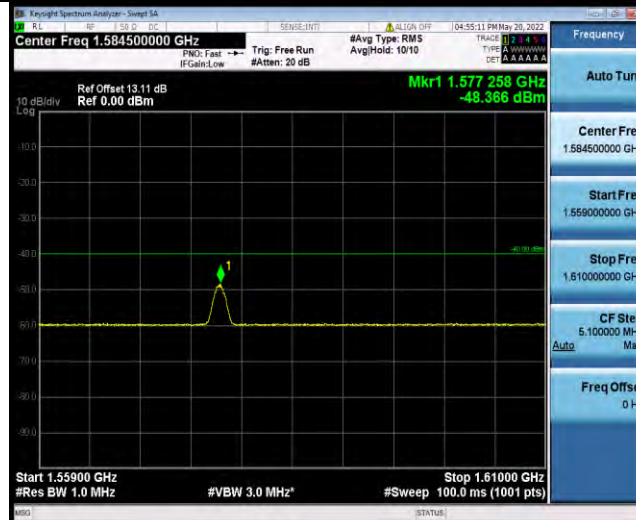
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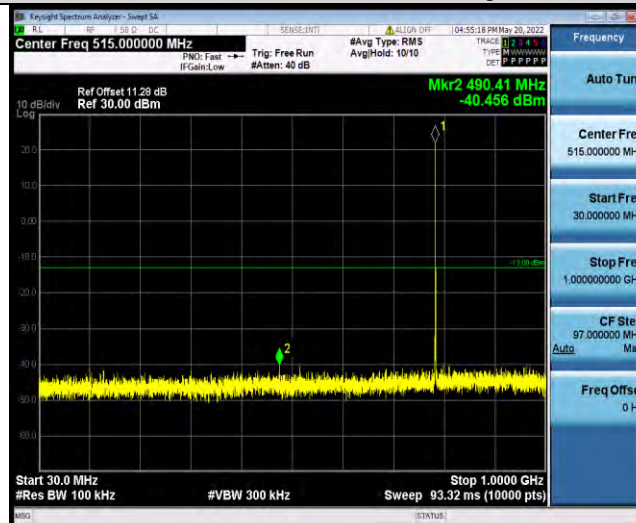


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VERITAS**

Test Report No.: W7L-220214W001RF04



Band14-10MHz-64QAM-23330-1RB#0-Range1:30~1000MHz



Band14-10MHz-64QAM-23330-1RB#0-Range2:1000~10000MHz

BV 7Layers Communications
Technology (Shenzhen) Co., Ltd

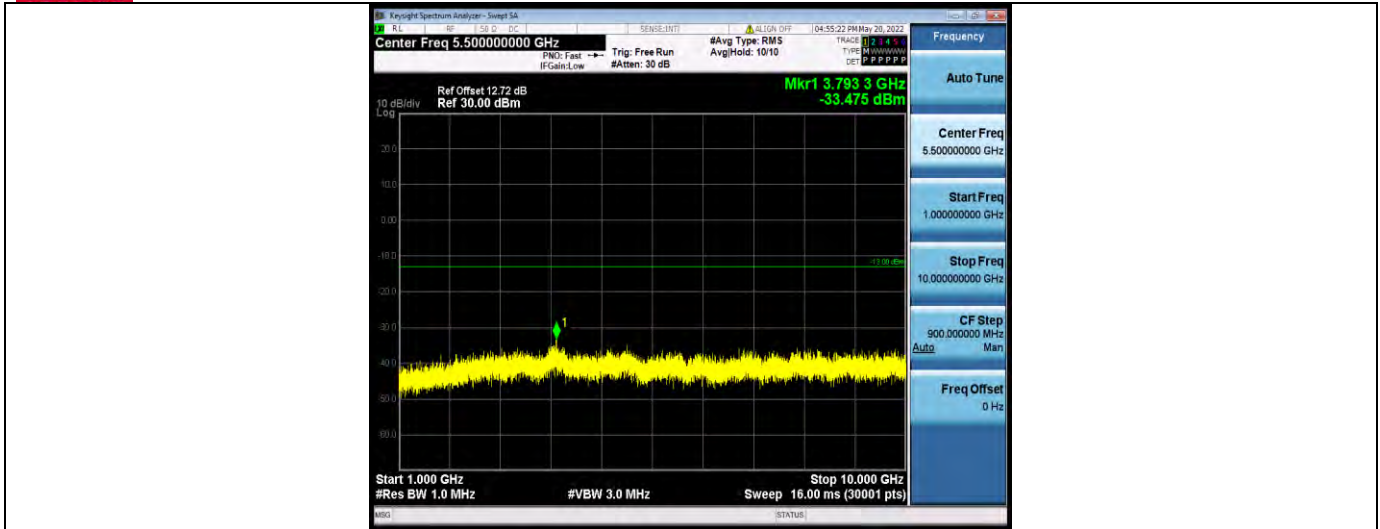
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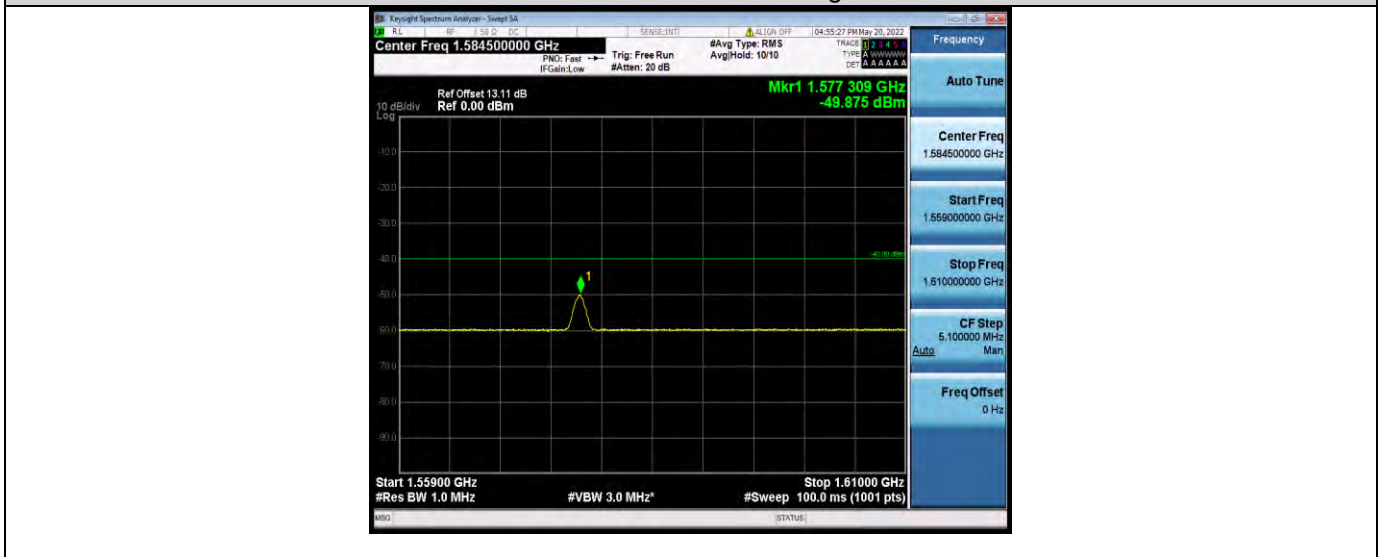


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VERITAS

Test Report No.: W7L-220214W001RF04



Band14-10MHz-64QAM-23330-1RB#0-Range3:1559~1610MHz



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BUREAU VERITAS Test Report No.: W7L-220214W001RF04
Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	VL	NT	3.16	0.003997	±2.5	PASS
Band14	5MHz	QPSK	23305	25RB#0	VN	NT	2.65	0.003352	±2.5	PASS
Band14	5MHz	QPSK	23305	25RB#0	VH	NT	-2.05	-0.002593	±2.5	PASS
Band14	5MHz	QPSK	23330	25RB#0	VL	NT	3.78	0.004767	±2.5	PASS
Band14	5MHz	QPSK	23330	25RB#0	VN	NT	2.70	0.003405	±2.5	PASS
Band14	5MHz	QPSK	23330	25RB#0	VH	NT	3.88	0.004893	±2.5	PASS
Band14	5MHz	QPSK	23355	25RB#0	VL	NT	-2.06	-0.002590	±2.5	PASS
Band14	5MHz	QPSK	23355	25RB#0	VN	NT	3.33	0.004186	±2.5	PASS
Band14	5MHz	QPSK	23355	25RB#0	VH	NT	-3.83	-0.004815	±2.5	PASS
Band14	5MHz	16QAM	23305	25RB#0	VL	NT	-1.07	-0.001354	±2.5	PASS
Band14	5MHz	16QAM	23305	25RB#0	VN	NT	-2.88	-0.003643	±2.5	PASS
Band14	5MHz	16QAM	23305	25RB#0	VH	NT	2.05	0.002593	±2.5	PASS
Band14	5MHz	16QAM	23330	25RB#0	VL	NT	2.16	0.002724	±2.5	PASS
Band14	5MHz	16QAM	23330	25RB#0	VN	NT	2.60	0.003279	±2.5	PASS
Band14	5MHz	16QAM	23330	25RB#0	VH	NT	-1.46	-0.001841	±2.5	PASS
Band14	5MHz	16QAM	23355	25RB#0	VL	NT	-2.80	-0.003520	±2.5	PASS
Band14	5MHz	16QAM	23355	25RB#0	VN	NT	4.15	0.005217	±2.5	PASS

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VERITAS****Test Report No.: W7L-220214W001RF04**

Band14	5MHz	16QAM	23355	25RB#0	VH	NT	3.13	0.003935	±2.5	PASS
Band14	5MHz	64QAM	23305	25RB#0	VL	NT	1.42	0.001796	±2.5	PASS
Band14	5MHz	64QAM	23305	25RB#0	VN	NT	-1.77	-0.002239	±2.5	PASS
Band14	5MHz	64QAM	23305	25RB#0	VH	NT	1.66	0.002100	±2.5	PASS
Band14	5MHz	64QAM	23330	25RB#0	VL	NT	-2.10	-0.002648	±2.5	PASS
Band14	5MHz	64QAM	23330	25RB#0	VN	NT	-0.97	-0.001223	±2.5	PASS
Band14	5MHz	64QAM	23330	25RB#0	VH	NT	3.42	0.004313	±2.5	PASS
Band14	5MHz	64QAM	23355	25RB#0	VL	NT	-2.27	-0.002854	±2.5	PASS
Band14	5MHz	64QAM	23355	25RB#0	VN	NT	-1.49	-0.001873	±2.5	PASS
Band14	5MHz	64QAM	23355	25RB#0	VH	NT	-2.76	-0.003470	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	VL	NT	-3.19	-0.004023	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	VN	NT	1.40	0.001765	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	VH	NT	-3.83	-0.004830	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	VL	NT	1.76	0.002219	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	VN	NT	2.76	0.003480	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	VH	NT	1.86	0.002346	±2.5	PASS
Band14	10MHz	64QAM	23330	50RB#0	VL	NT	1.92	0.002421	±2.5	PASS
Band14	10MHz	64QAM	23330	50RB#0	VN	NT	0.99	0.001248	±2.5	PASS
Band14	10MHz	64QAM	23330	50RB#0	VH	NT	3.40	0.004288	±2.5	PASS



Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	NV	-30	2.33	0.002948	±2.5	PASS
Band14	5MHz	QPSK	23305	25RB#0	NV	-20	-3.25	-0.004111	±2.5	PASS
Band14	5MHz	QPSK	23305	25RB#0	NV	0	-1.40	-0.001771	±2.5	PASS
Band14	5MHz	QPSK	23305	25RB#0	NV	10	-1.22	-0.001543	±2.5	PASS
Band14	5MHz	QPSK	23305	25RB#0	NV	20	-3.82	-0.004832	±2.5	PASS
Band14	5MHz	QPSK	23305	25RB#0	NV	30	3.46	0.004377	±2.5	PASS
Band14	5MHz	QPSK	23305	25RB#0	NV	40	1.66	0.002100	±2.5	PASS
Band14	5MHz	QPSK	23305	25RB#0	NV	50	2.55	0.003226	±2.5	PASS
Band14	5MHz	QPSK	23330	25RB#0	NV	-30	1.53	0.001929	±2.5	PASS
Band14	5MHz	QPSK	23330	25RB#0	NV	-20	1.27	0.001602	±2.5	PASS
Band14	5MHz	QPSK	23330	25RB#0	NV	0	4.15	0.005233	±2.5	PASS
Band14	5MHz	QPSK	23330	25RB#0	NV	10	3.40	0.004288	±2.5	PASS
Band14	5MHz	QPSK	23330	25RB#0	NV	20	3.89	0.004905	±2.5	PASS
Band14	5MHz	QPSK	23330	25RB#0	NV	30	4.36	0.005498	±2.5	PASS
Band14	5MHz	QPSK	23330	25RB#0	NV	40	3.59	0.004527	±2.5	PASS
Band14	5MHz	QPSK	23330	25RB#0	NV	50	1.19	0.001501	±2.5	PASS
Band14	5MHz	QPSK	23355	25RB#0	NV	-30	2.86	0.003595	±2.5	PASS
Band14	5MHz	QPSK	23355	25RB#0	NV	-20	-2.29	-0.002879	±2.5	PASS



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Test Report No.: W7L-220214W001RF04

Band14	5MHz	QPSK	23355	25RB#0	NV	0	-2.52	-0.003168	±2.5	PASS
Band14	5MHz	QPSK	23355	25RB#0	NV	10	4.73	0.005946	±2.5	PASS
Band14	5MHz	QPSK	23355	25RB#0	NV	20	4.41	0.005544	±2.5	PASS
Band14	5MHz	QPSK	23355	25RB#0	NV	30	-4.28	-0.005380	±2.5	PASS
Band14	5MHz	QPSK	23355	25RB#0	NV	40	-2.17	-0.002728	±2.5	PASS
Band14	5MHz	QPSK	23355	25RB#0	NV	50	2.98	0.003746	±2.5	PASS
Band14	5MHz	16QAM	23305	25RB#0	NV	-30	2.49	0.003150	±2.5	PASS
Band14	5MHz	16QAM	23305	25RB#0	NV	-20	3.06	0.003871	±2.5	PASS
Band14	5MHz	16QAM	23305	25RB#0	NV	0	-2.79	-0.003529	±2.5	PASS
Band14	5MHz	16QAM	23305	25RB#0	NV	10	-2.88	-0.003643	±2.5	PASS
Band14	5MHz	16QAM	23305	25RB#0	NV	20	2.05	0.002593	±2.5	PASS
Band14	5MHz	16QAM	23305	25RB#0	NV	30	2.75	0.003479	±2.5	PASS
Band14	5MHz	16QAM	23305	25RB#0	NV	40	3.53	0.004466	±2.5	PASS
Band14	5MHz	16QAM	23305	25RB#0	NV	50	1.92	0.002429	±2.5	PASS
Band14	5MHz	16QAM	23330	25RB#0	NV	-30	2.55	0.003216	±2.5	PASS
Band14	5MHz	16QAM	23330	25RB#0	NV	-20	-2.35	-0.002963	±2.5	PASS
Band14	5MHz	16QAM	23330	25RB#0	NV	0	3.13	0.003947	±2.5	PASS
Band14	5MHz	16QAM	23330	25RB#0	NV	10	2.12	0.002673	±2.5	PASS
Band14	5MHz	16QAM	23330	25RB#0	NV	20	-1.72	-0.002169	±2.5	PASS
Band14	5MHz	16QAM	23330	25RB#0	NV	30	-2.23	-0.002812	±2.5	PASS
Band14	5MHz	16QAM	23330	25RB#0	NV	40	-2.42	-0.003052	±2.5	PASS

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VERITAS****Test Report No.: W7L-220214W001RF04**

Band14	5MHz	16QAM	23330	25RB#0	NV	50	-2.63	-0.003317	±2.5	PASS
Band14	5MHz	16QAM	23355	25RB#0	NV	-30	-2.06	-0.002590	±2.5	PASS
Band14	5MHz	16QAM	23355	25RB#0	NV	-20	-2.52	-0.003168	±2.5	PASS
Band14	5MHz	16QAM	23355	25RB#0	NV	0	-1.73	-0.002175	±2.5	PASS
Band14	5MHz	16QAM	23355	25RB#0	NV	10	1.10	0.001383	±2.5	PASS
Band14	5MHz	16QAM	23355	25RB#0	NV	20	2.90	0.003646	±2.5	PASS
Band14	5MHz	16QAM	23355	25RB#0	NV	30	0.96	0.001207	±2.5	PASS
Band14	5MHz	16QAM	23355	25RB#0	NV	40	-1.17	-0.001471	±2.5	PASS
Band14	5MHz	16QAM	23355	25RB#0	NV	50	2.56	0.003218	±2.5	PASS
Band14	5MHz	64QAM	23305	25RB#0	NV	-30	-2.98	-0.003770	±2.5	PASS
Band14	5MHz	64QAM	23305	25RB#0	NV	-20	-2.20	-0.002783	±2.5	PASS
Band14	5MHz	64QAM	23305	25RB#0	NV	0	-1.54	-0.001948	±2.5	PASS
Band14	5MHz	64QAM	23305	25RB#0	NV	10	-2.43	-0.003074	±2.5	PASS
Band14	5MHz	64QAM	23305	25RB#0	NV	20	-1.17	-0.001480	±2.5	PASS
Band14	5MHz	64QAM	23305	25RB#0	NV	30	-3.12	-0.003947	±2.5	PASS
Band14	5MHz	64QAM	23305	25RB#0	NV	40	-1.95	-0.002467	±2.5	PASS
Band14	5MHz	64QAM	23305	25RB#0	NV	50	-1.80	-0.002277	±2.5	PASS
Band14	5MHz	64QAM	23330	25RB#0	NV	-30	3.88	0.004893	±2.5	PASS
Band14	5MHz	64QAM	23330	25RB#0	NV	-20	2.90	0.003657	±2.5	PASS
Band14	5MHz	64QAM	23330	25RB#0	NV	0	2.57	0.003241	±2.5	PASS
Band14	5MHz	64QAM	23330	25RB#0	NV	10	-3.59	-0.004527	±2.5	PASS

BV 7Layers Communications
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VERITAS****Test Report No.: W7L-220214W001RF04**

Band14	5MHz	64QAM	23330	25RB#0	NV	20	2.86	0.003607	±2.5	PASS
Band14	5MHz	64QAM	23330	25RB#0	NV	30	2.06	0.002598	±2.5	PASS
Band14	5MHz	64QAM	23330	25RB#0	NV	40	-1.23	-0.001551	±2.5	PASS
Band14	5MHz	64QAM	23330	25RB#0	NV	50	-2.20	-0.002774	±2.5	PASS
Band14	5MHz	64QAM	23355	25RB#0	NV	-30	-3.10	-0.003897	±2.5	PASS
Band14	5MHz	64QAM	23355	25RB#0	NV	-20	-2.55	-0.003206	±2.5	PASS
Band14	5MHz	64QAM	23355	25RB#0	NV	0	-1.99	-0.002502	±2.5	PASS
Band14	5MHz	64QAM	23355	25RB#0	NV	10	1.63	0.002049	±2.5	PASS
Band14	5MHz	64QAM	23355	25RB#0	NV	20	-3.16	-0.003972	±2.5	PASS
Band14	5MHz	64QAM	23355	25RB#0	NV	30	-1.93	-0.002426	±2.5	PASS
Band14	5MHz	64QAM	23355	25RB#0	NV	40	-3.10	-0.003897	±2.5	PASS
Band14	5MHz	64QAM	23355	25RB#0	NV	50	2.13	0.002678	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-30	3.25	0.004098	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-20	2.00	0.002522	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	0	3.26	0.004111	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	10	1.27	0.001602	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	20	-3.48	-0.004388	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	30	-3.22	-0.004061	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	40	2.43	0.003064	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	50	-1.83	-0.002308	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	-30	-1.46	-0.001841	±2.5	PASS

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Band14	10MHz	16QAM	23330	50RB#0	NV	-20	1.54	0.001942	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	0	-1.44	-0.001816	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	10	-3.53	-0.004451	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	20	-2.00	-0.002522	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	30	-2.12	-0.002673	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	40	-3.82	-0.004817	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	50	-4.76	-0.006003	±2.5	PASS
Band14	10MHz	64QAM	23330	50RB#0	NV	-30	-1.47	-0.001854	±2.5	PASS
Band14	10MHz	64QAM	23330	50RB#0	NV	-20	-2.40	-0.003026	±2.5	PASS
Band14	10MHz	64QAM	23330	50RB#0	NV	0	-2.63	-0.003317	±2.5	PASS
Band14	10MHz	64QAM	23330	50RB#0	NV	10	-2.79	-0.003518	±2.5	PASS
Band14	10MHz	64QAM	23330	50RB#0	NV	20	-2.09	-0.002636	±2.5	PASS
Band14	10MHz	64QAM	23330	50RB#0	NV	30	2.35	0.002963	±2.5	PASS
Band14	10MHz	64QAM	23330	50RB#0	NV	40	2.00	0.002522	±2.5	PASS
Band14	10MHz	64QAM	23330	50RB#0	NV	50	-3.93	-0.004956	±2.5	PASS