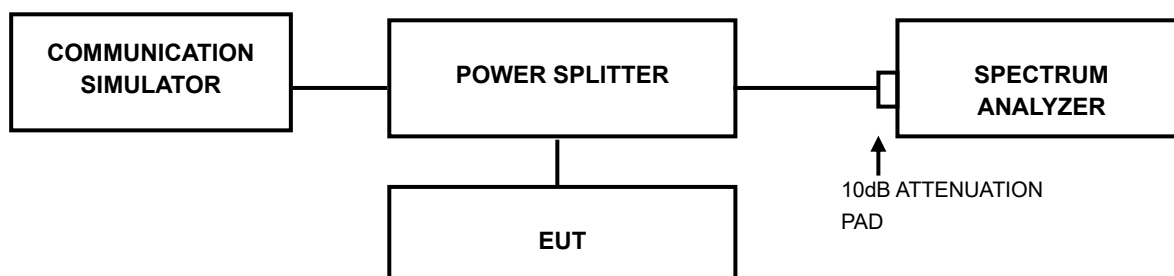


3.7 PEAK TO AVERAGE RATIO

3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

3.7.2 TEST SETUP



3.7.3 TEST PROCEDURES

1. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.



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3.7.4 TEST RESULTS

Please Refer to Appendix Of this test report.

4 INFORMATION ON THE TESTING LABORATORIES

We, BV 7LAYERS COMMUNICATIONS TECHNOLOGY (SHENZHEN) CO. LTD., were founded in 2015 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Shenzhen EMC/RF Lab:

Tel: +86-755-88696566

Fax: +86-755-88696577

Email: customerservice.sw@cn.bureauveritas.com

Web Site: www.adt.com.tw

The address and road map of all our labs can be found in our web site also.

5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

6 APPENDIX

N48

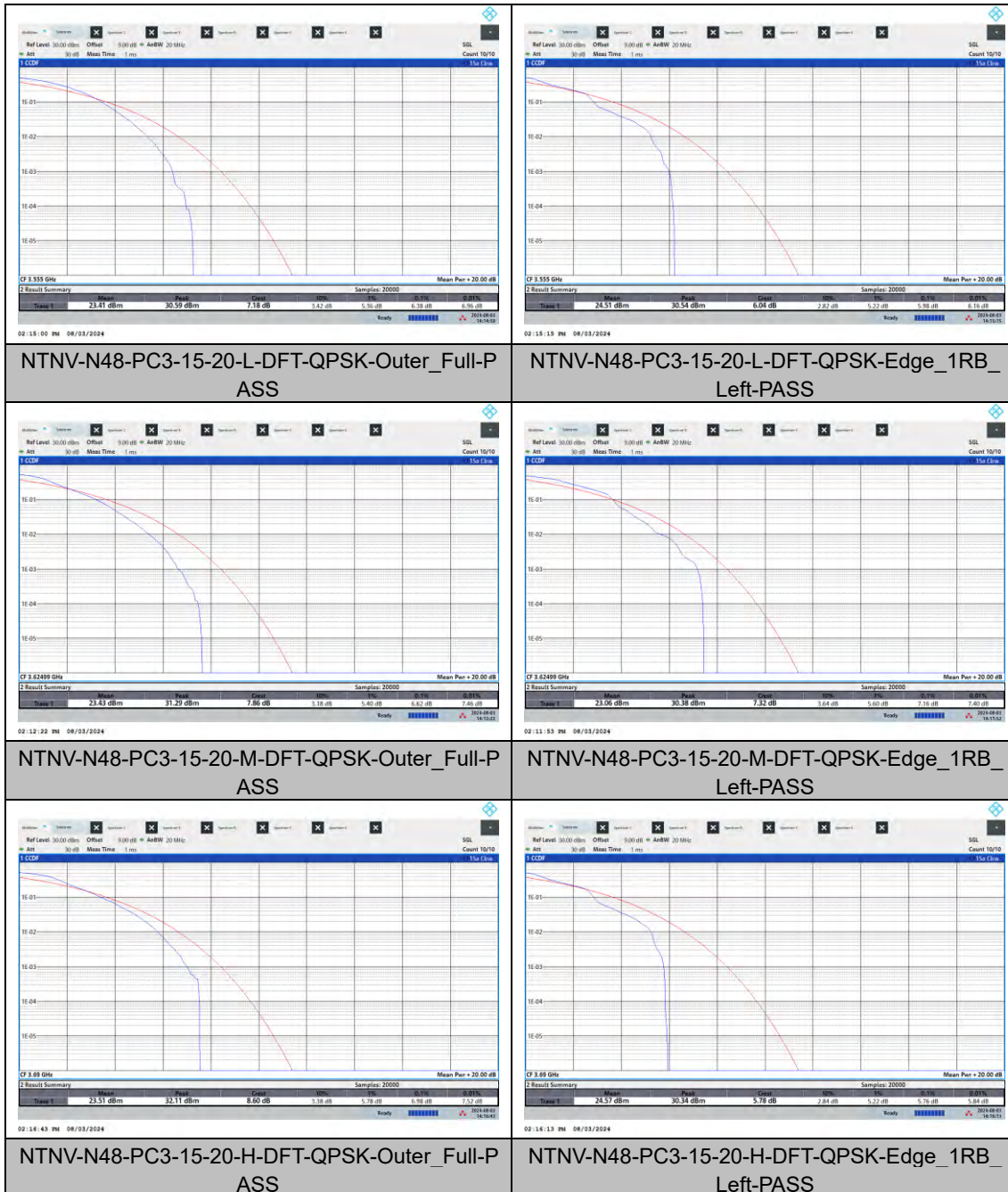
SCS 15K

PEAK-TO-AVERAGE RATIO(CCDF)

TEST RESULT

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N48	15	20	DFT-QPSK	L	Outer_Full	6.38	≤13	PASS
N48	15	20	DFT-QPSK	L	Edge_1RB_Left	5.98	≤13	PASS
N48	15	20	DFT-QPSK	M	Outer_Full	6.62	≤13	PASS
N48	15	20	DFT-QPSK	M	Edge_1RB_Left	7.16	≤13	PASS
N48	15	20	DFT-QPSK	H	Outer_Full	6.98	≤13	PASS
N48	15	20	DFT-QPSK	H	Edge_1RB_Left	5.76	≤13	PASS

TEST GRAPHS



26DB BANDWIDTH AND OCCUPIED BANDWIDTH FOR SA TEST RESULT

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N41	15	10	DFT-PI2BPSK	M	Outer_Full	8.932	9.73	PASS
N41	15	10	DFT-QPSK	M	Outer_Full	8.923	9.51	PASS
N41	15	10	DFT-16QAM	M	Outer_Full	8.914	9.45	PASS
N41	15	10	DFT-64QAM	M	Outer_Full	8.905	9.47	PASS
N41	15	10	DFT-256QAM	M	Outer_Full	8.944	9.45	PASS
N41	15	15	DFT-PI2BPSK	M	Outer_Full	13.435	14.33	PASS
N41	15	15	DFT-QPSK	M	Outer_Full	13.432	14.27	PASS
N41	15	15	DFT-16QAM	M	Outer_Full	13.404	14.27	PASS
N41	15	15	DFT-64QAM	M	Outer_Full	13.446	14.24	PASS
N41	15	15	DFT-256QAM	M	Outer_Full	13.424	14.24	PASS
N41	15	20	DFT-PI2BPSK	M	Outer_Full	17.866	18.90	PASS
N41	15	20	DFT-QPSK	M	Outer_Full	17.868	19.06	PASS
N41	15	20	DFT-16QAM	M	Outer_Full	17.871	18.90	PASS
N41	15	20	DFT-64QAM	M	Outer_Full	17.863	18.94	PASS
N41	15	20	DFT-256QAM	M	Outer_Full	17.840	18.98	PASS
N41	15	40	DFT-PI2BPSK	M	Outer_Full	38.548	40.84	PASS
N41	15	40	DFT-QPSK	M	Outer_Full	38.579	41.00	PASS
N41	15	40	DFT-16QAM	M	Outer_Full	38.575	40.60	PASS
N41	15	40	DFT-64QAM	M	Outer_Full	38.502	41.24	PASS
N41	15	40	DFT-256QAM	M	Outer_Full	38.541	40.20	PASS
N41	15	50	DFT-PI2BPSK	M	Outer_Full	48.107	50.25	PASS
N41	15	50	DFT-QPSK	M	Outer_Full	48.174	50.15	PASS
N41	15	50	DFT-16QAM	M	Outer_Full	48.146	50.35	PASS
N41	15	50	DFT-64QAM	M	Outer_Full	48.212	50.05	PASS
N41	15	50	DFT-256QAM	M	Outer_Full	48.224	50.15	PASS

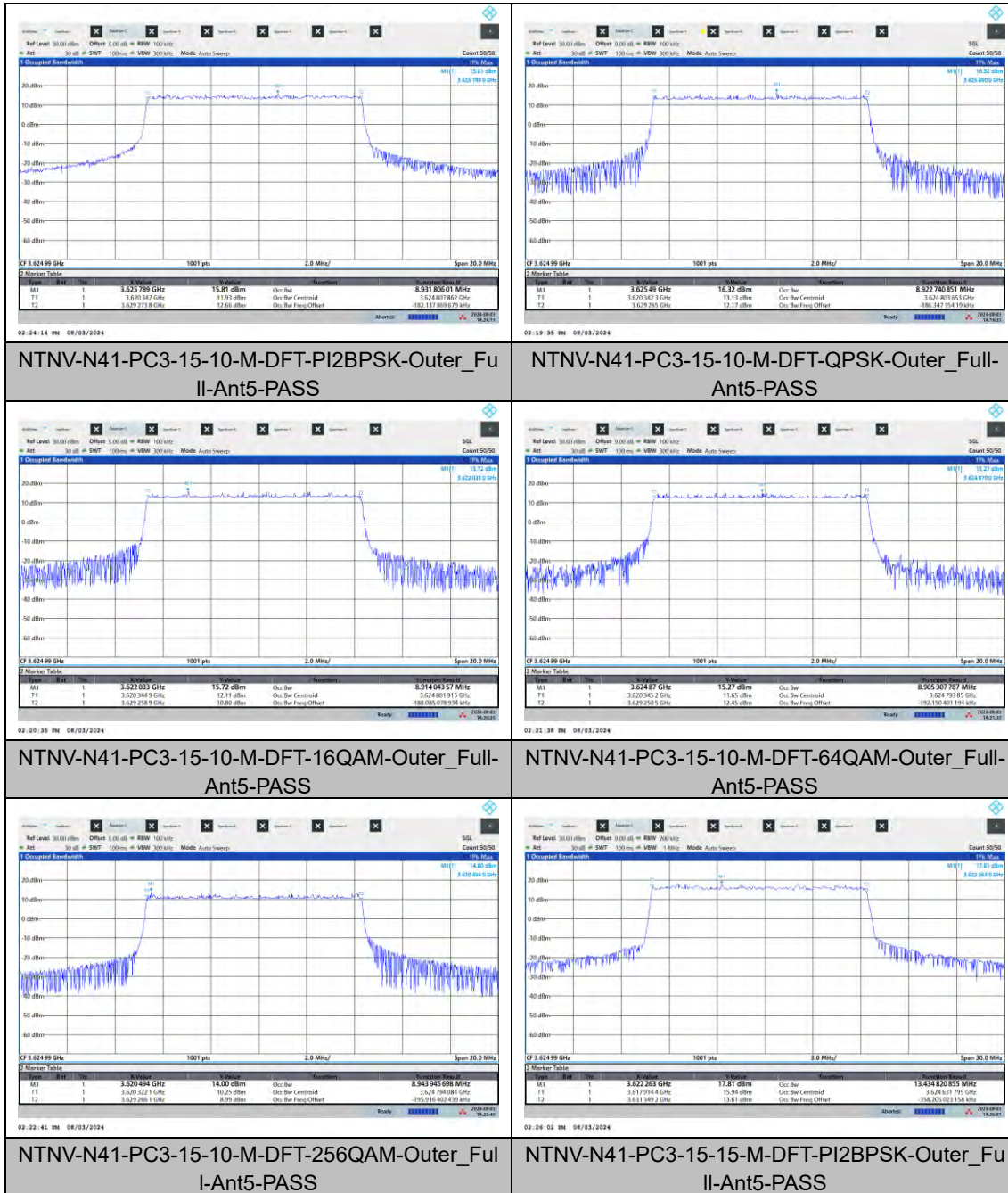


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Test Report No.: W7L-240618W002RF13

TEST GRAPHS

OCCUPIED BANDWIDTH



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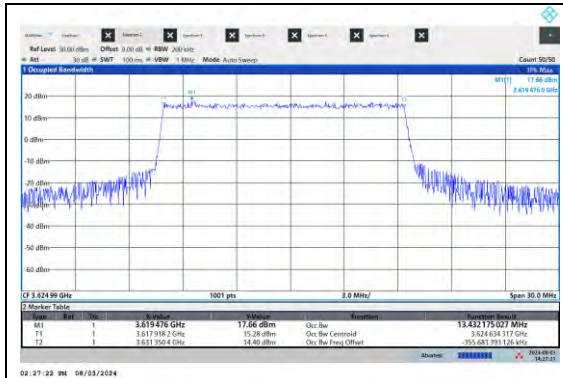
Room B37, Warehouse A5, No.3 Chiwan 4th Road,
Zhaoshang Street, Nanshan District Shenzhen,
Guangdong, People's Republic of China

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Email: customerservice.sw@bureauveritas.com



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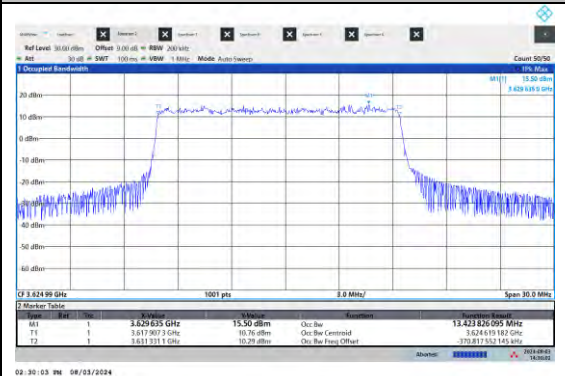
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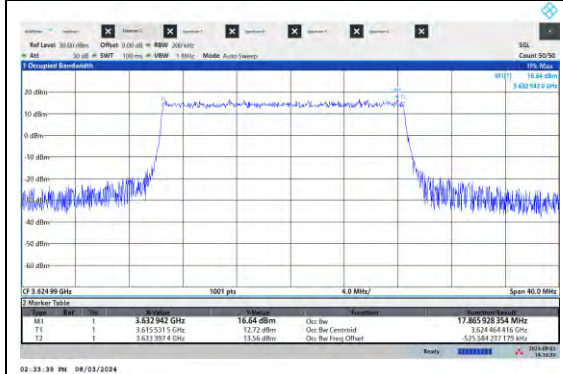
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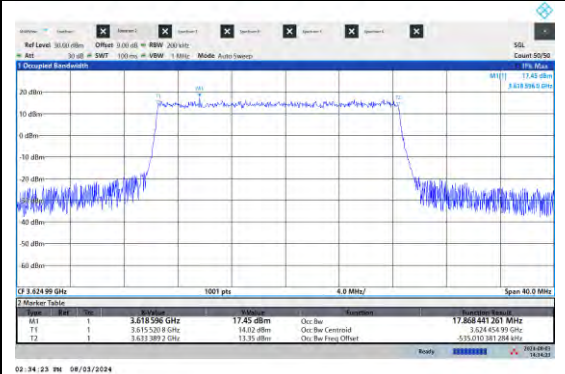
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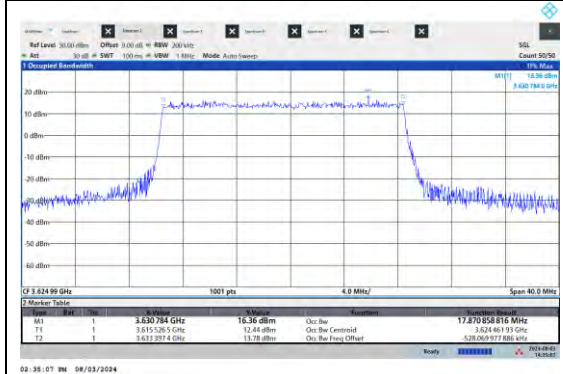
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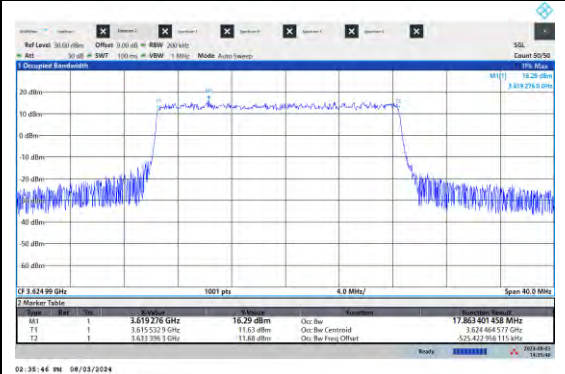
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NTNV-N41-PC3-15-20-M-DFT-16QAM-Outet_Full-Ant5-PASS



NTNV-N41-PC3-15-20-M-DFT-64QAM-Outet_Full-Ant5-PASS

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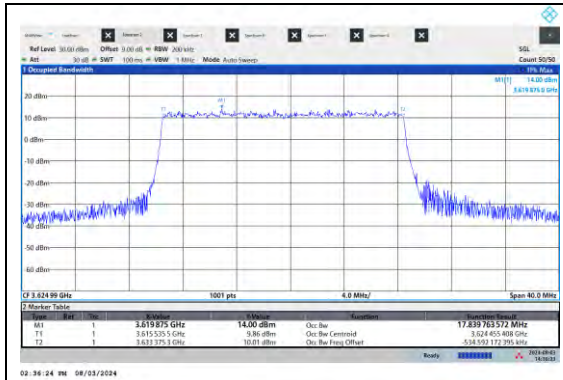
Room B37, Warehouse A5, No.3 Chiwan 4th Road,
Zhaoshang Street, Nanshan District Shenzhen,
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Fax: +86 755 8869 6577
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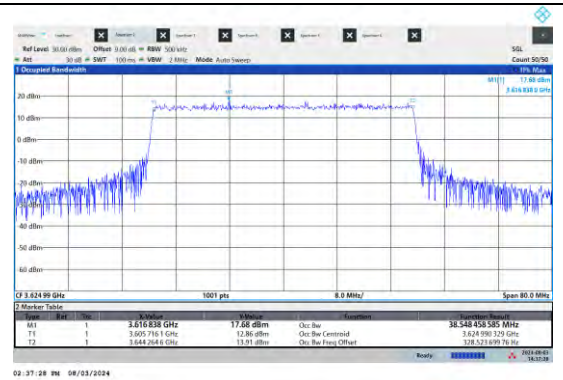


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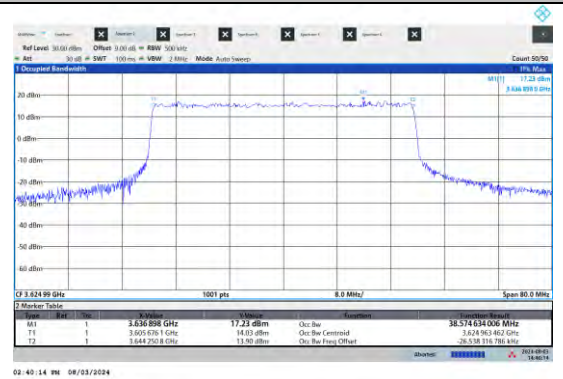
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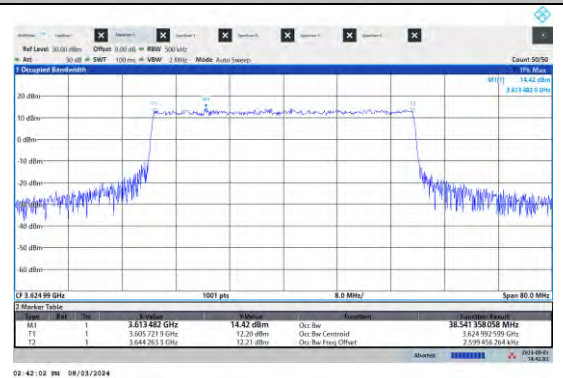
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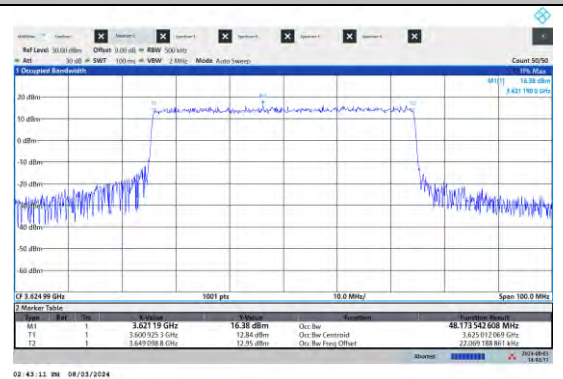
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NTNV-N41-PC3-15-40-M-DFT-256QAM-Outer_Ful I-Ant5-PASS



NTNV-N41-PC3-15-50-M-DFT-PI2BPSK-Outer_Fu II-Ant5-PASS



NTNV-N41-PC3-50-M-DFT-PI2BPSK-Outer_Full-A nt5-PASS

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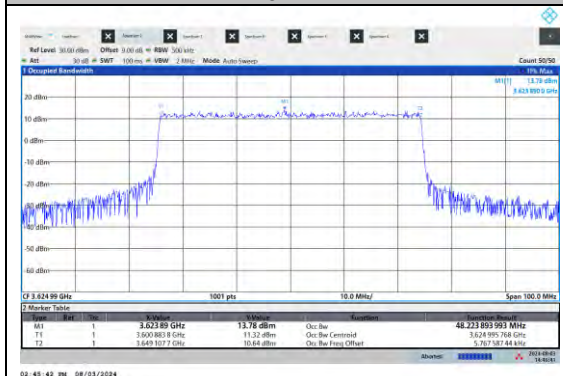
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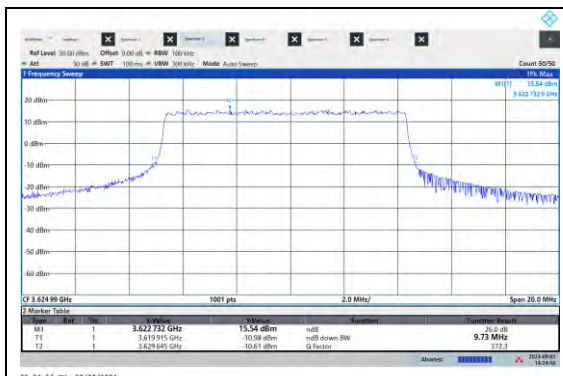


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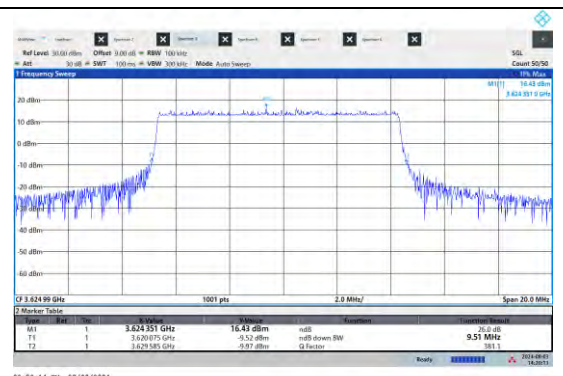


NTNV-N41-PC3-15-50-M-DFT-QPSK-Outet_Full-Ant5-PASS

26DB BANDWIDTH



NTNV-N41-PC3-15-10-M-DFT-PI2BPSK-Outet_Full-Ant5-PASS

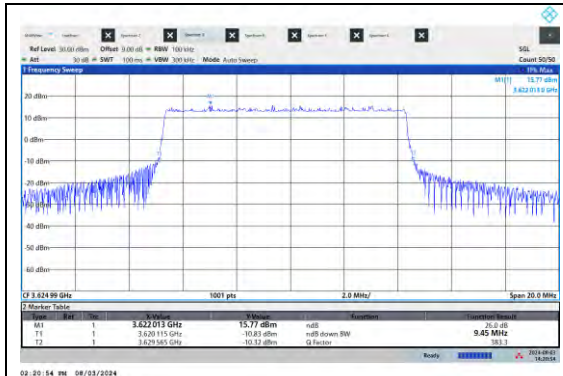


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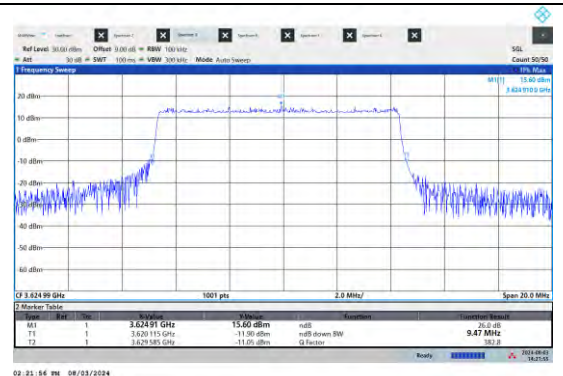


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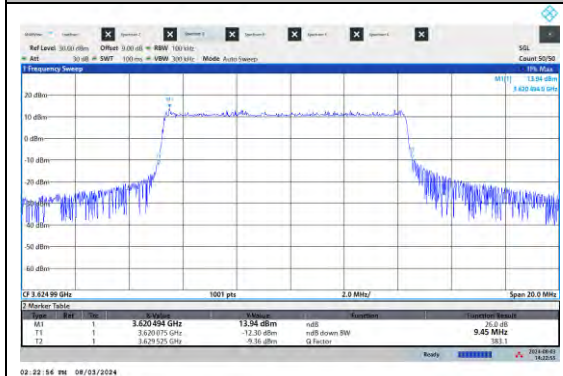
Test Report No.: W7L-240618W002RF13



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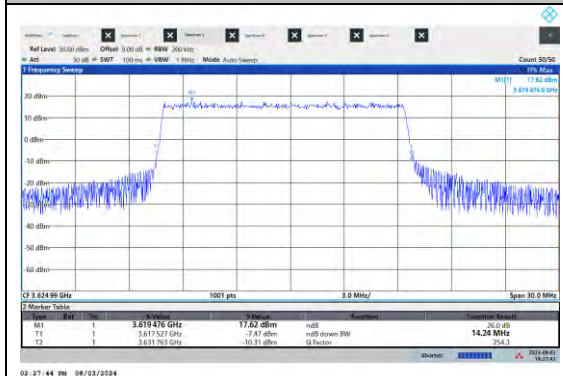
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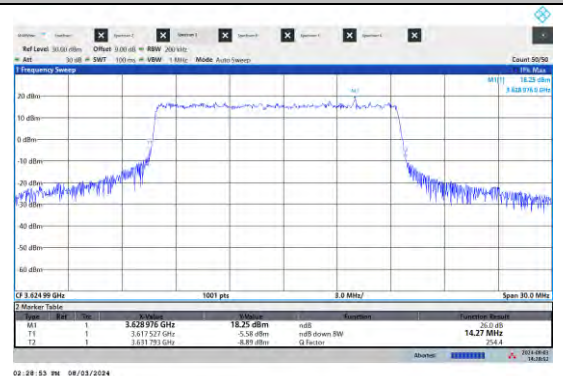
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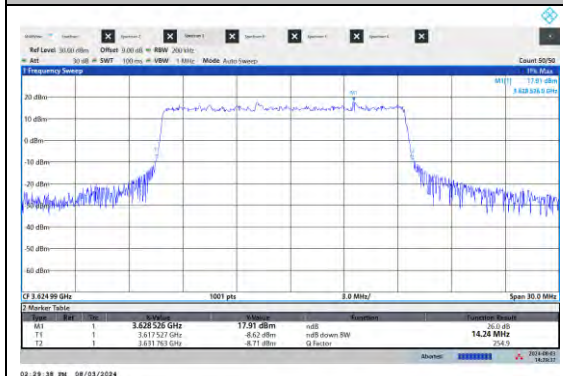
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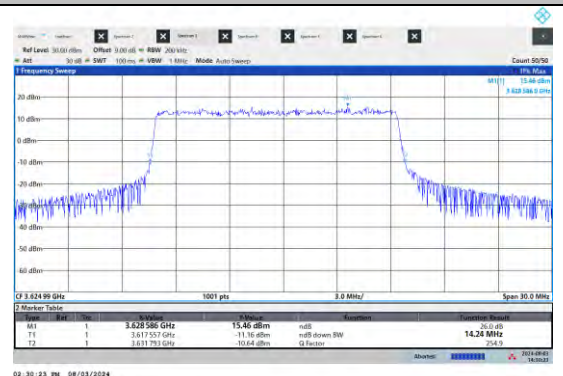
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NTNV-N41-PC3-15-15-M-DFT-64QAM-Outer_Full-Ant5-PASS

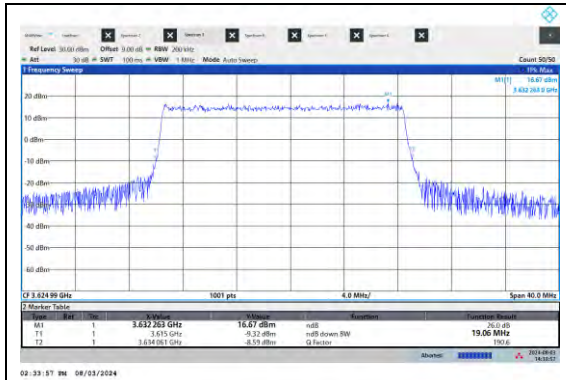


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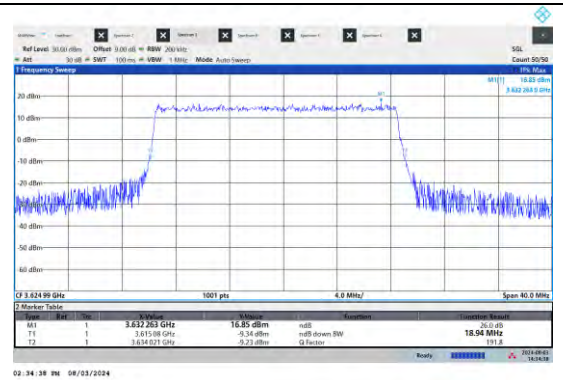
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Zhaoshang Street, Nanshan District Shenzhen,
Guangdong, People's Republic of China

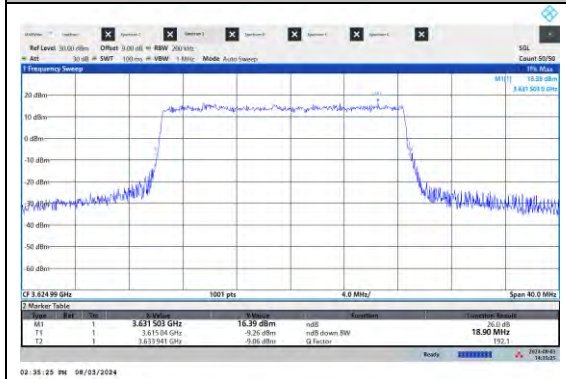
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Email: customerservice.sw@bureauveritas.com



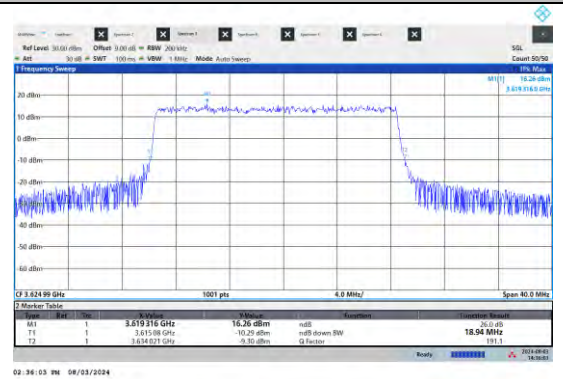
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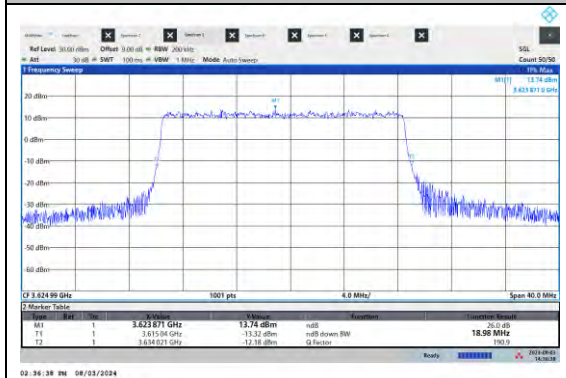
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NTNV-N41-PC3-15-20-M-DFT-16QAM-Outter_Full-Ant5-PASS



NTNV-N41-PC3-15-20-M-DFT-64QAM-Outter_Full-Ant5-PASS



NTNV-N41-PC3-15-20-M-DFT-256QAM-Outter_Full-Ant5-PASS



NTNV-N41-PC3-40-M-DFT-PI2BPSK-Outter_Full-Ant5-PASS



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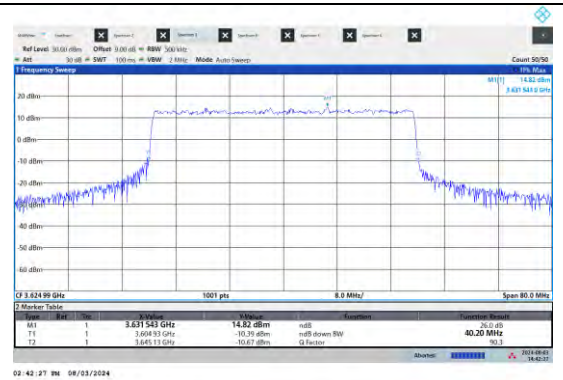


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NTNV-N41-PC3-15-40-M-DFT-64QAM-Outer_Full-Ant5-PASS



NTNV-N41-PC3-15-40-M-DFT-256QAM-Outer_Full-Ant5-PASS



NTNV-N41-PC3-15-50-M-DFT-PI2BPSK-Outer_Full-Ant5-PASS



NTNV-N41-PC3-50-M-DFT-PI2BPSK-Outer_Full-Ant5-PASS



NTNV-N41-PC3-15-50-M-DFT-QPSK-Outer_Full-Ant5-PASS



NTNV-N41-PC3-50-M-DFT-PI2BPSK-Outer_Full-Ant5-PASS



NTNV-N41-PC3-15-50-M-DFT-QPSK-Outer_Full-Ant5-PASS

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ACLR FOR SA TEST RESULT

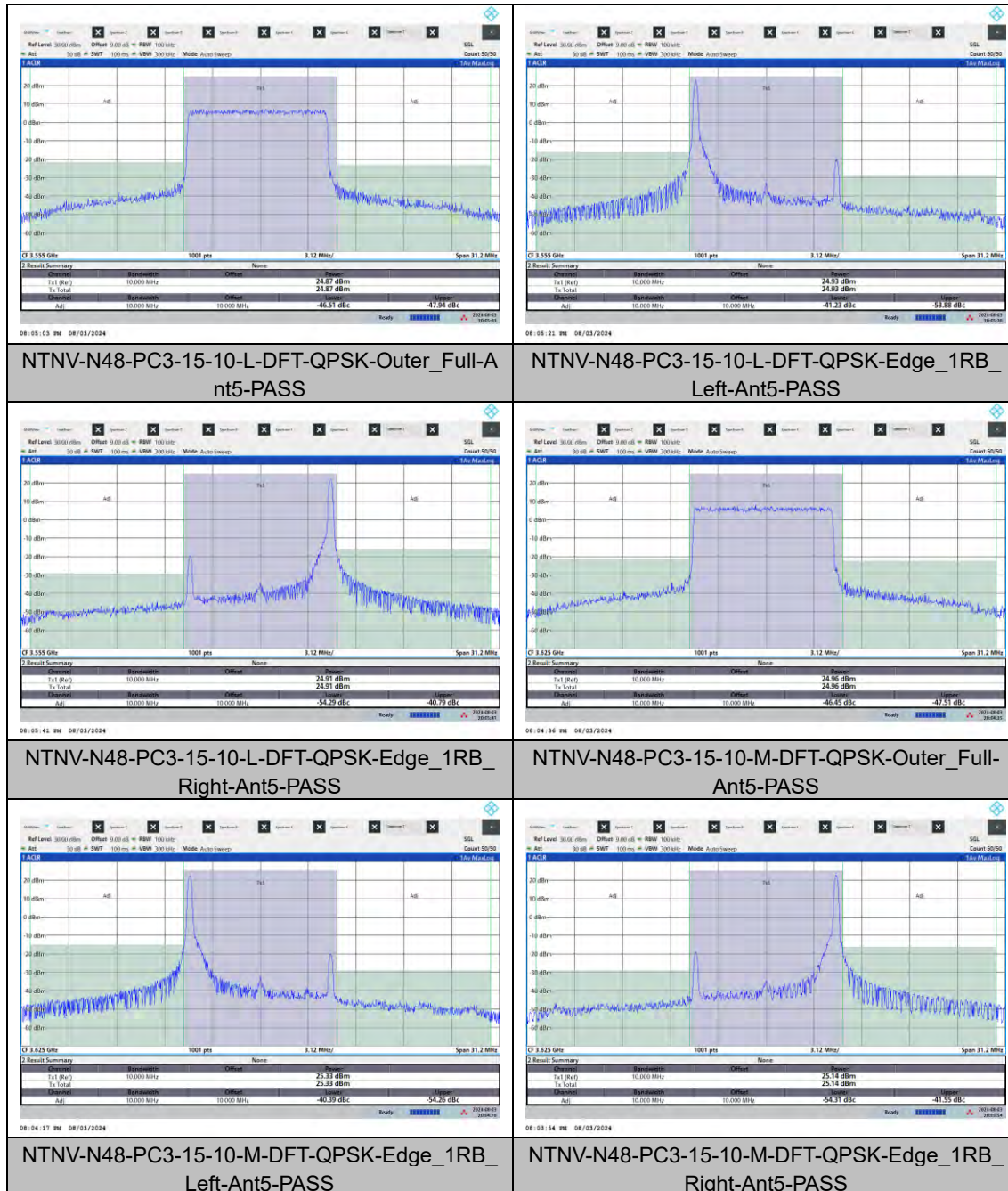
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Verdict
N48	15	10	DFT-QPSK	L	Outer_Full	≤ -30	PASS
N48	15	10	DFT-QPSK	L	Edge_1RB_Left	≤ -30	PASS
N48	15	10	DFT-QPSK	L	Edge_1RB_Right	≤ -30	PASS
N48	15	10	DFT-QPSK	M	Outer_Full	≤ -30	PASS
N48	15	10	DFT-QPSK	M	Edge_1RB_Left	≤ -30	PASS
N48	15	10	DFT-QPSK	M	Edge_1RB_Right	≤ -30	PASS
N48	15	10	DFT-QPSK	H	Outer_Full	≤ -30	PASS
N48	15	10	DFT-QPSK	H	Edge_1RB_Left	≤ -30	PASS
N48	15	10	DFT-QPSK	H	Edge_1RB_Right	≤ -30	PASS
N48	15	20	DFT-QPSK	L	Outer_Full	≤ -30	PASS
N48	15	20	DFT-QPSK	L	Edge_1RB_Left	≤ -30	PASS
N48	15	20	DFT-QPSK	L	Edge_1RB_Right	≤ -30	PASS
N48	15	20	DFT-QPSK	M	Outer_Full	≤ -30	PASS
N48	15	20	DFT-QPSK	M	Edge_1RB_Left	≤ -30	PASS
N48	15	20	DFT-QPSK	M	Edge_1RB_Right	≤ -30	PASS
N48	15	20	DFT-QPSK	H	Outer_Full	≤ -30	PASS
N48	15	20	DFT-QPSK	H	Edge_1RB_Left	≤ -30	PASS
N48	15	20	DFT-QPSK	H	Edge_1RB_Right	≤ -30	PASS
N48	15	50	DFT-QPSK	L	Outer_Full	≤ -30	PASS
N48	15	50	DFT-QPSK	L	Edge_1RB_Left	≤ -30	PASS
N48	15	50	DFT-QPSK	L	Edge_1RB_Right	≤ -30	PASS
N48	15	50	DFT-QPSK	M	Outer_Full	≤ -30	PASS
N48	15	50	DFT-QPSK	M	Edge_1RB_Left	≤ -30	PASS
N48	15	50	DFT-QPSK	M	Edge_1RB_Right	≤ -30	PASS
N48	15	50	DFT-QPSK	H	Outer_Full	≤ -30	PASS
N48	15	50	DFT-QPSK	H	Edge_1RB_Left	≤ -30	PASS
N48	15	50	DFT-QPSK	H	Edge_1RB_Right	≤ -30	PASS



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TEST GRAPHS



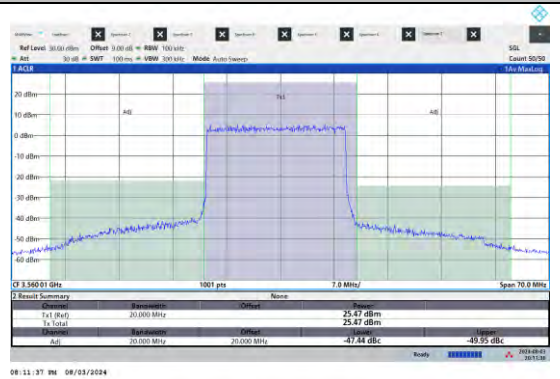
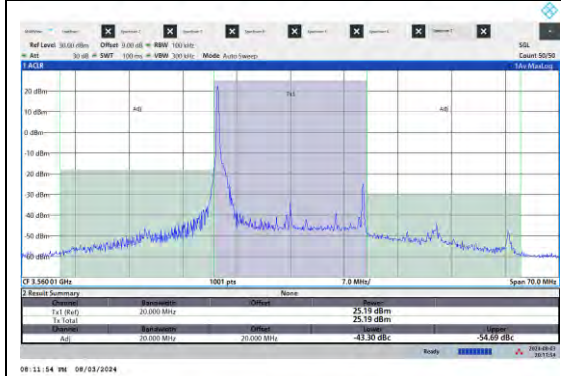
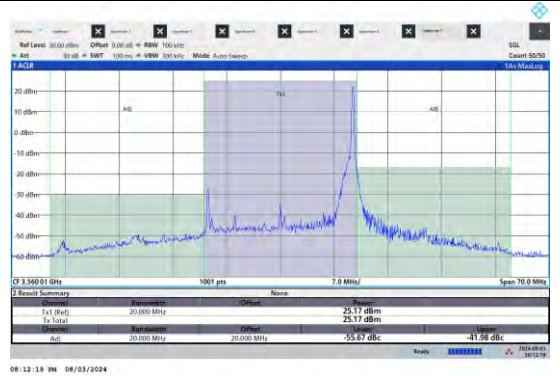
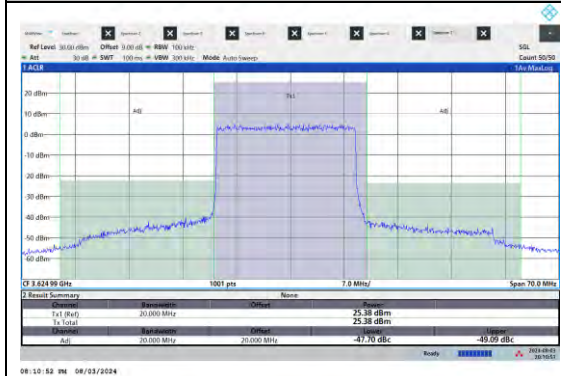
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NTNV-N48-PC3-15-10-H-DFT-QPSK-Outer_Full-A
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Left-Ant5-PASSNTNV-N48-PC3-15-10-H-DFT-QPSK-Edge_1RB_
Right-Ant5-PASSNTNV-N48-PC3-15-20-L-DFT-QPSK-Outer_Full-A
nt5-PASSNTNV-N48-PC3-15-20-L-DFT-QPSK-Edge_1RB_
Left-Ant5-PASSNTNV-N48-PC3-15-20-L-DFT-QPSK-Edge_1RB_
Right-Ant5-PASS

NTNV-N48-PC3-15-20-M-DFT-QPSK-Outer_Full-Ant5-PASS

NTNV-N48-PC3-15-20-M-DFT-QPSK-Edge_1RB_
Left-Ant5-PASS

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Email: customerservice.sw@bureauveritas.com



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Test Report No.: W7L-240618W002RF13



NTNV-N48-PC3-15-20-M-DFT-QPSK-Edge_1RB_Right-Ant5-PASS



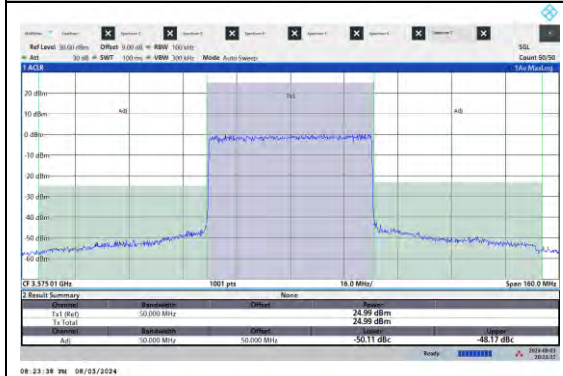
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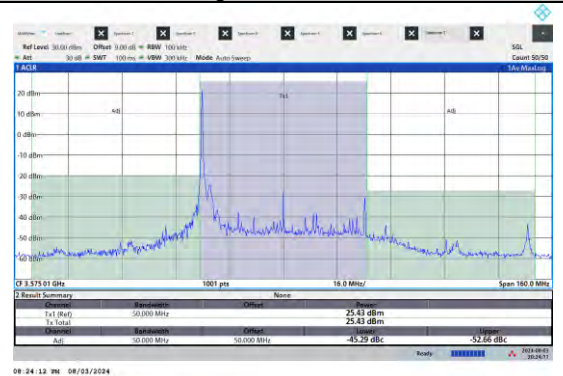
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NTNV-N48-PC3-15-20-H-DFT-QPSK-Edge_1RB_Right-Ant5-PASS



NTNV-N48-PC3-15-50-L-DFT-QPSK-Outer_Full-Ant5-PASS



NTNV-N48-PC3-15-50-L-DFT-QPSK-Outer_Full-Ant5-PASS



NTNV-N48-PC3-15-50-L-DFT-QPSK-Edge_1RB_Reft-Ant5-PASS



NTNV-N48-PC3-15-50-M-DFT-QPSK-Outer_Full-Ant5-PASS

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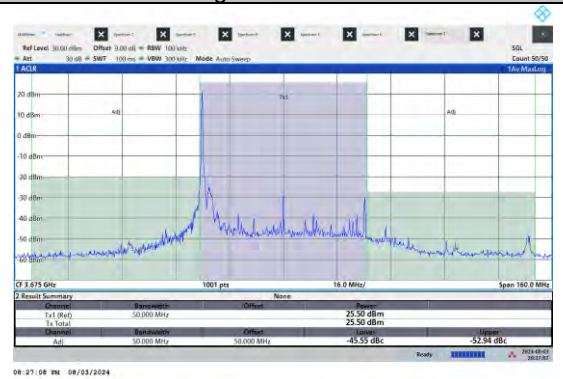
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Left-Ant5-PASS



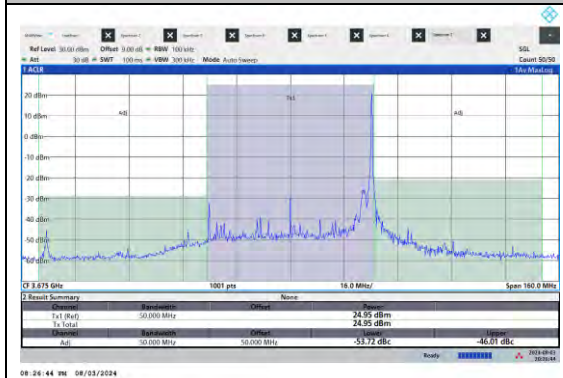
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Right-Ant5-PASS



NTNV-N48-PC3-15-50-H-DFT-QPSK-Outer_Full-A
nt5-PASS



NTNV-N48-PC3-15-50-H-DFT-QPSK-Edge_1RB_
Left-Ant5-PASS



NTNV-N48-PC3-15-50-H-DFT-QPSK-Edge_1RB_
Right-Ant5-PASS

BAND EDGE FOR SA TEST RESULT

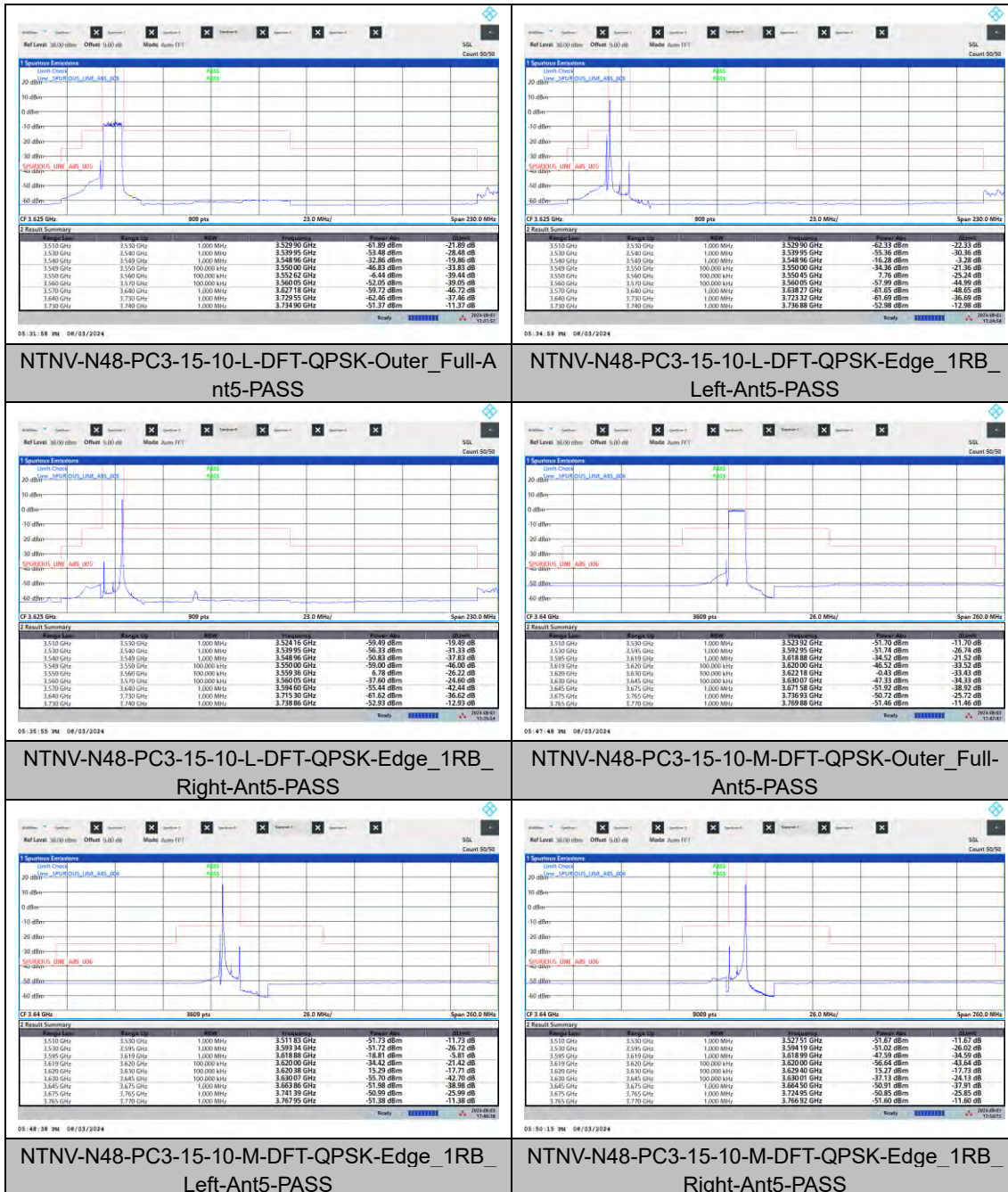
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Verdict
N48	15	10	DFT-QPSK	L	Outer_Full	See Graph	PASS
N48	15	10	DFT-QPSK	L	Edge_1RB_Left	See Graph	PASS
N48	15	10	DFT-QPSK	L	Edge_1RB_Right	See Graph	PASS
N48	15	10	DFT-QPSK	M	Outer_Full	See Graph	PASS
N48	15	10	DFT-QPSK	M	Edge_1RB_Left	See Graph	PASS
N48	15	10	DFT-QPSK	M	Edge_1RB_Right	See Graph	PASS
N48	15	10	DFT-QPSK	H	Outer_Full	See Graph	PASS
N48	15	10	DFT-QPSK	H	Edge_1RB_Left	See Graph	PASS
N48	15	10	DFT-QPSK	H	Edge_1RB_Right	See Graph	PASS
N48	15	20	DFT-QPSK	L	Outer_Full	See Graph	PASS
N48	15	20	DFT-QPSK	L	Edge_1RB_Left	See Graph	PASS
N48	15	20	DFT-QPSK	L	Edge_1RB_Right	See Graph	PASS
N48	15	20	DFT-QPSK	M	Outer_Full	See Graph	PASS
N48	15	20	DFT-QPSK	M	Edge_1RB_Left	See Graph	PASS
N48	15	20	DFT-QPSK	M	Edge_1RB_Right	See Graph	PASS
N48	15	20	DFT-QPSK	H	Outer_Full	See Graph	PASS
N48	15	20	DFT-QPSK	H	Edge_1RB_Left	See Graph	PASS
N48	15	20	DFT-QPSK	H	Edge_1RB_Right	See Graph	PASS
N48	15	50	DFT-QPSK	L	Outer_Full	See Graph	PASS
N48	15	50	DFT-QPSK	L	Edge_1RB_Left	See Graph	PASS
N48	15	50	DFT-QPSK	L	Edge_1RB_Right	See Graph	PASS
N48	15	50	DFT-QPSK	M	Outer_Full	See Graph	PASS
N48	15	50	DFT-QPSK	M	Edge_1RB_Left	See Graph	PASS
N48	15	50	DFT-QPSK	M	Edge_1RB_Right	See Graph	PASS
N48	15	50	DFT-QPSK	H	Outer_Full	See Graph	PASS
N48	15	50	DFT-QPSK	H	Edge_1RB_Left	See Graph	PASS
N48	15	50	DFT-QPSK	H	Edge_1RB_Right	See Graph	PASS



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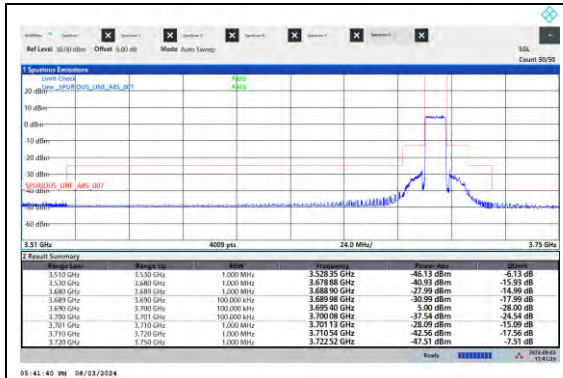
TEST GRAPHS



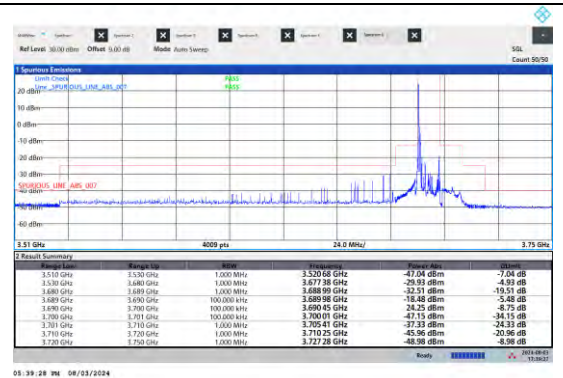
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Guangdong, People's Republic of China

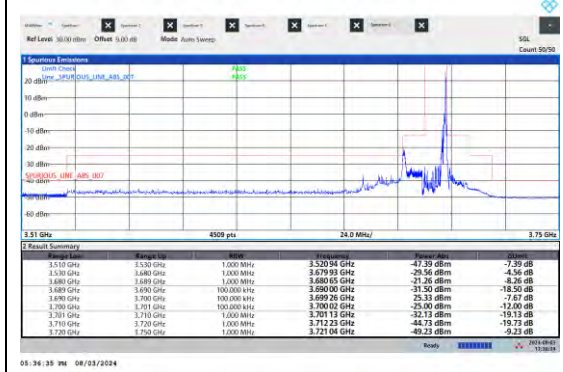
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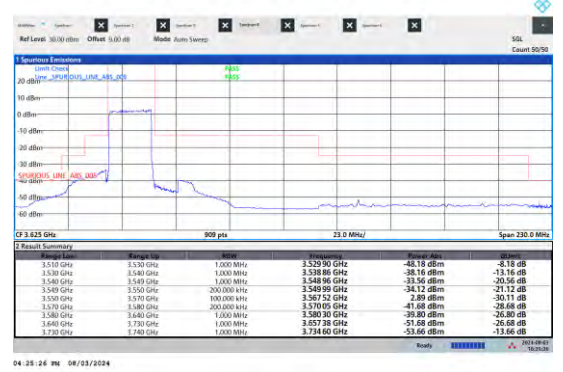
NTNV-N48-PC3-15-10-H-DFT-QPSK-Outer_Full-Ant5-PASS



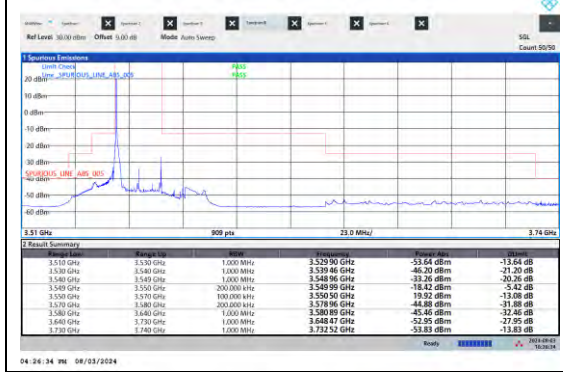
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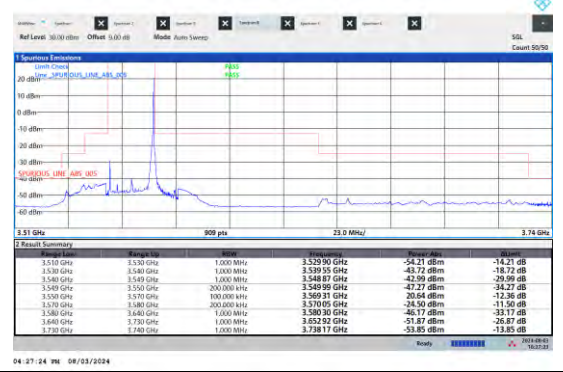
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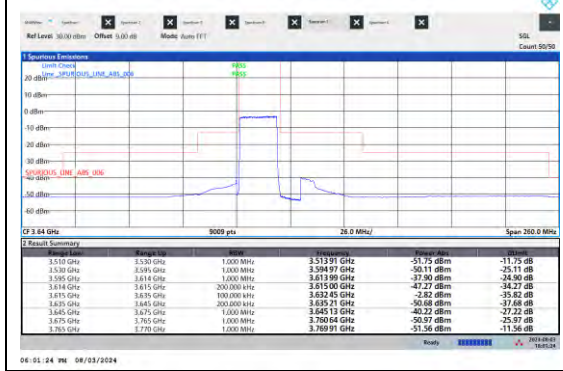
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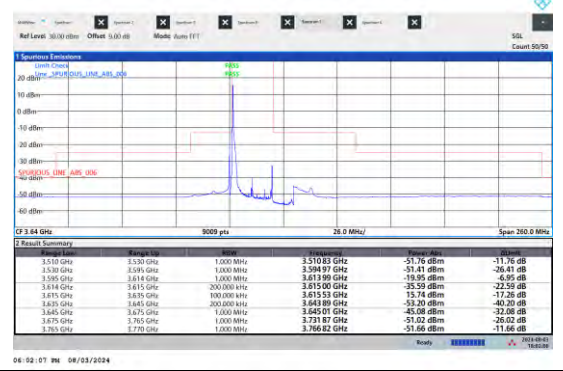
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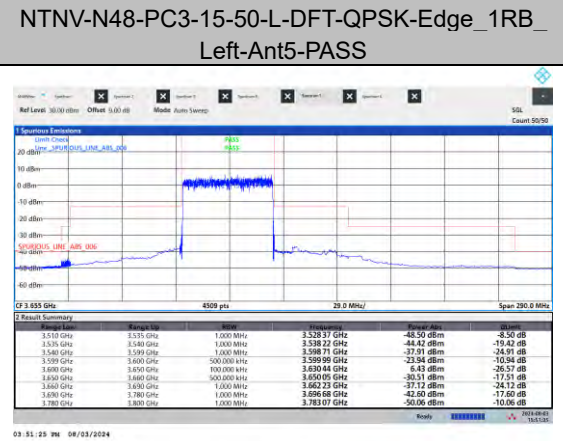
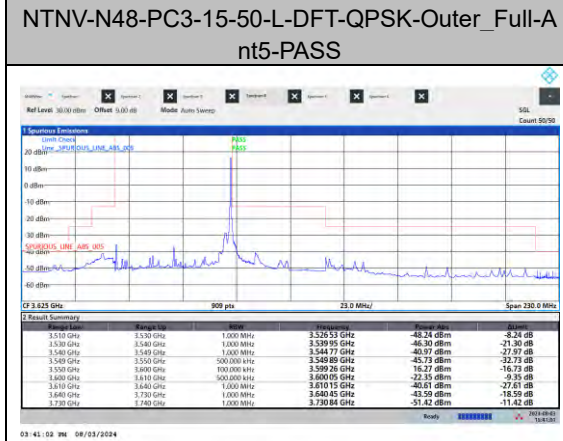
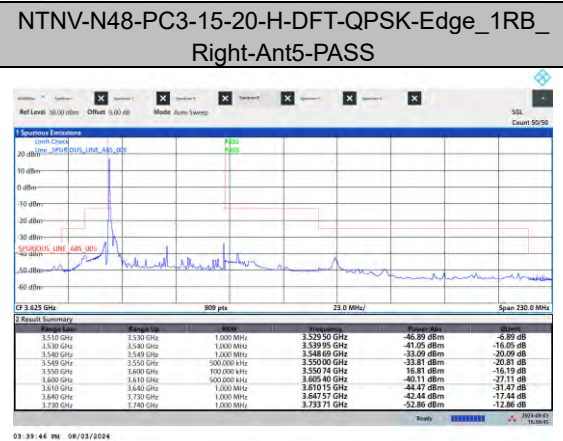
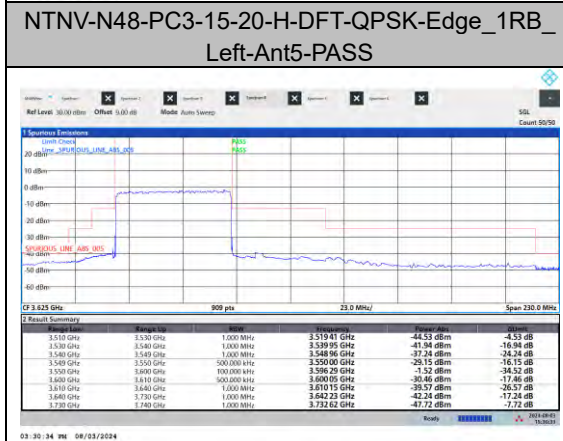
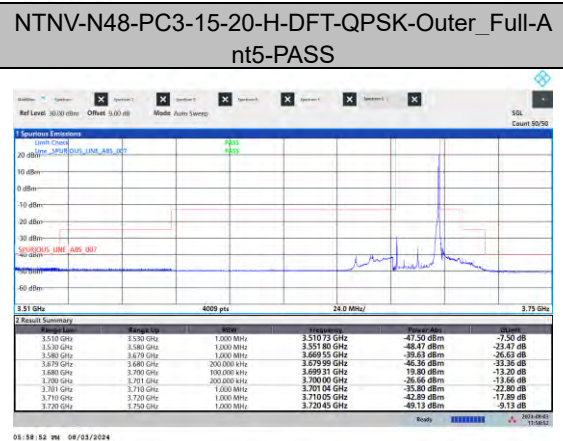
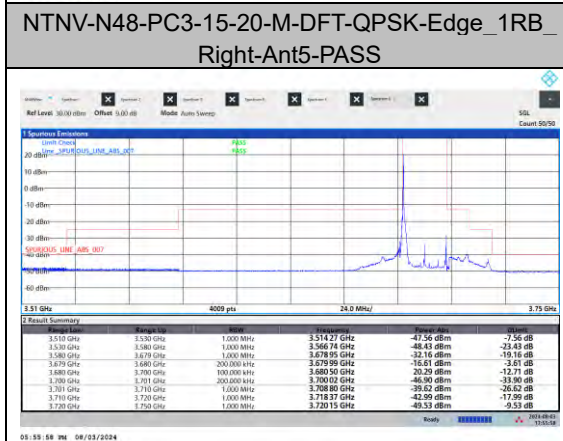
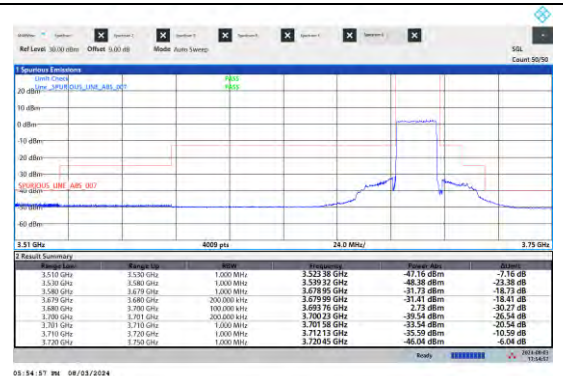
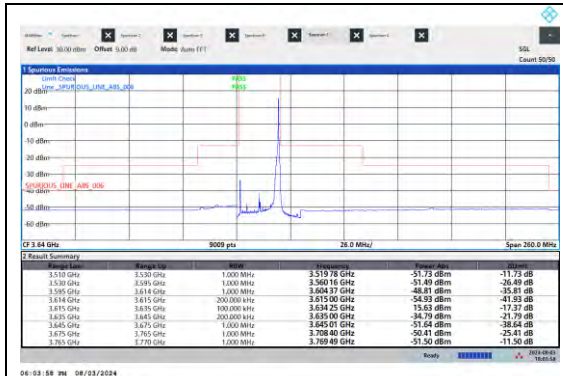
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NTNV-N48-PC3-15-20-M-DFT-QPSK-Outer_Full-Ant5-PASS



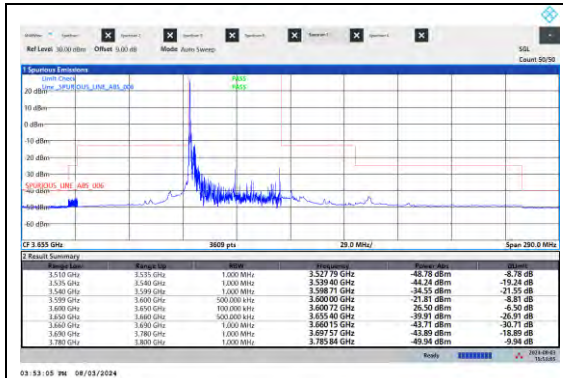
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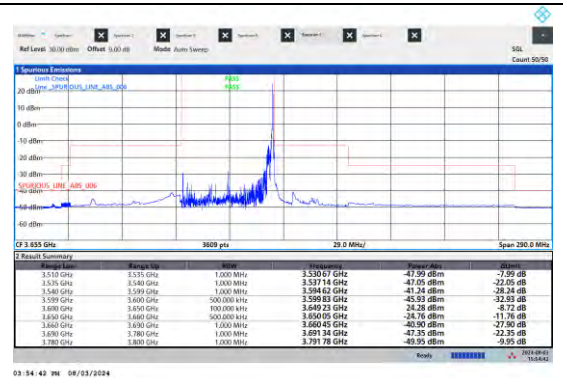


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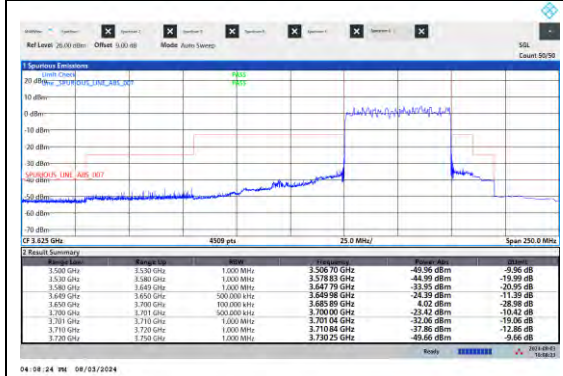
Test Report No.: W7L-240618W002RF13



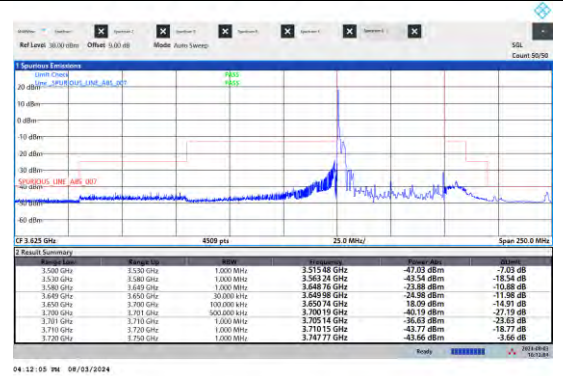
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Left-Ant5-PASS



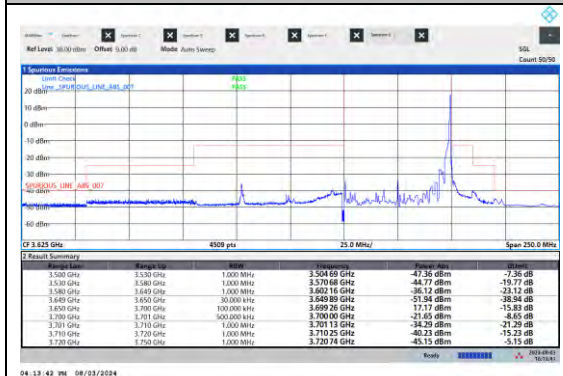
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Right-Ant5-PASS



NTNV-N48-PC3-15-50-H-DFT-QPSK-Outer_Full-A
nt5-PASS



NTNV-N48-PC3-15-50-H-DFT-QPSK-Edge_1RB_
Left-Ant5-PASS



NTNV-N48-PC3-15-50-H-DFT-QPSK-Edge_1RB_
Right-Ant5-PASS

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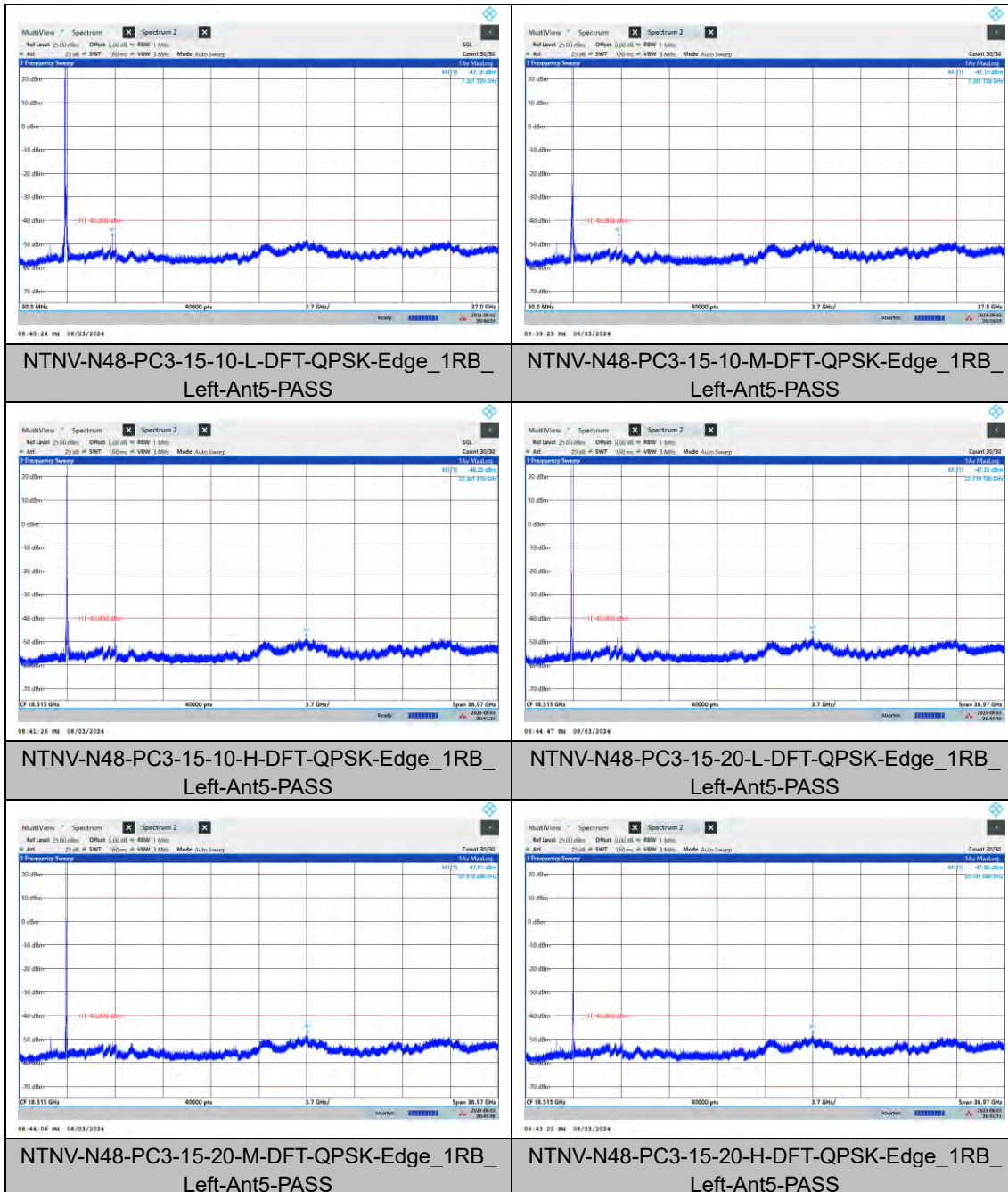
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CONDUCTED SPURIOUS EMISSION FOR SA TEST RESULT

Band	SCS	Bandwidth	Modulation	Channel	RB Config	StartFreq	StopFreq	Result	Limit	Verdict
N48	15	10	DFT-QPSK	L	Edge_1RB_Left	30	40000	See Graph	-40	PASS
N48	15	10	DFT-QPSK	M	Edge_1RB_Left	30	40000	See Graph	-40	PASS
N48	15	10	DFT-QPSK	H	Edge_1RB_Left	30	40000	See Graph	-40	PASS
N48	15	20	DFT-QPSK	L	Edge_1RB_Left	30	40000	See Graph	-40	PASS
N48	15	20	DFT-QPSK	M	Edge_1RB_Left	30	40000	See Graph	-40	PASS
N48	15	20	DFT-QPSK	H	Edge_1RB_Left	30	40000	See Graph	-40	PASS
N48	15	40	DFT-QPSK	L	Edge_1RB_Left	30	40000	See Graph	-40	PASS
N48	15	40	DFT-QPSK	M	Edge_1RB_Left	30	40000	See Graph	-40	PASS
N48	15	40	DFT-QPSK	H	Edge_1RB_Left	30	40000	See Graph	-40	PASS



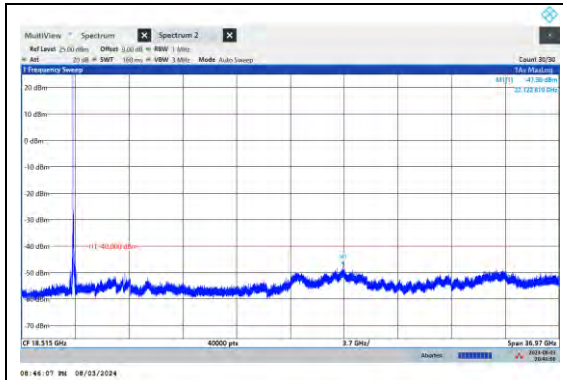
TEST GRAPHS



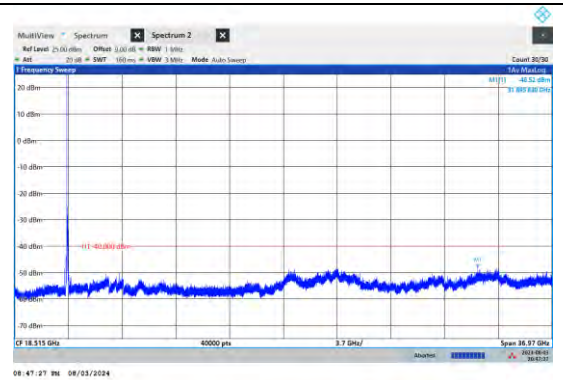


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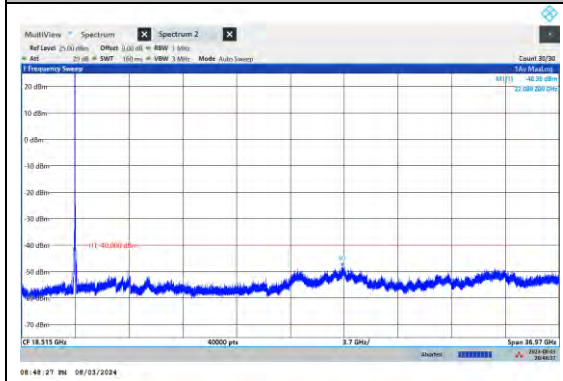
Test Report No.: W7L-240618W002RF13



NTVN-N48-PC3-15-50-L-DFT-QPSK-Edge_1RB_
Left-Ant5-PASS



NTVN-N48-PC3-15-50-M-DFT-QPSK-Edge_1RB_
Left-Ant5-PASS



NTVN-N48-PC3-15-50-H-DFT-QPSK-Edge_1RB_
Left-Ant5-PASS

FREQUENCY STABILITY FOR SA TEST RESULT

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N48	15	20	DFT-QPSK	L	Outer Full	VL	NT	5.000000	0.000008	PASS
N48	15	20	DFT-QPSK	L	Outer Full	VN	NT	14.000000	0.000021	PASS
N48	15	20	DFT-QPSK	L	Outer Full	VH	NT	-9.000000	-0.000014	PASS
N48	15	20	DFT-QPSK	M	Outer Full	VL	NT	-6.000000	-0.000009	PASS
N48	15	20	DFT-QPSK	M	Outer Full	VN	NT	-21.000000	-0.000032	PASS
N48	15	20	DFT-QPSK	M	Outer Full	VH	NT	19.000000	0.000029	PASS
N48	15	20	DFT-QPSK	H	Outer Full	VL	NT	6.000000	0.000009	PASS
N48	15	20	DFT-QPSK	H	Outer Full	VN	NT	-15.000000	-0.000023	PASS
N48	15	20	DFT-QPSK	H	Outer Full	VH	NT	-31.000000	-0.000047	PASS

Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N48	15	20	DFT-QPSK	L	Outer Full	NV	-30	17.000000	0.000026	PASS
N48	15	20	DFT-QPSK	L	Outer Full	NV	-20	14.000000	0.000021	PASS
N48	15	20	DFT-QPSK	L	Outer Full	NV	-10	-28.000000	-0.000042	PASS
N48	15	20	DFT-QPSK	L	Outer Full	NV	0	-22.000000	-0.000033	PASS
N48	15	20	DFT-QPSK	L	Outer Full	NV	10	-24.000000	-0.000036	PASS
N48	15	20	DFT-QPSK	L	Outer Full	NV	20	-7.000000	-0.000011	PASS
N48	15	20	DFT-QPSK	L	Outer Full	NV	30	30.000000	0.000045	PASS
N48	15	20	DFT-QPSK	L	Outer Full	NV	40	30.000000	0.000045	PASS
N48	15	20	DFT-QPSK	L	Outer Full	NV	50	12.000000	0.000018	PASS
N48	15	20	DFT-QPSK	M	Outer Full	NV	-30	-17.000000	-0.000026	PASS
N48	15	20	DFT-QPSK	M	Outer Full	NV	-20	26.000000	0.000039	PASS
N48	15	20	DFT-QPSK	M	Outer Full	NV	-10	-3.000000	-0.000005	PASS
N48	15	20	DFT-QPSK	M	Outer Full	NV	0	-2.000000	-0.000003	PASS
N48	15	20	DFT-QPSK	M	Outer Full	NV	10	24.000000	0.000036	PASS
N48	15	20	DFT-QPSK	M	Outer Full	NV	20	-2.000000	-0.000003	PASS
N48	15	20	DFT-QPSK	M	Outer Full	NV	30	-31.000000	-0.000047	PASS
N48	15	20	DFT-QPSK	M	Outer Full	NV	40	17.000000	0.000026	PASS
N48	15	20	DFT-QPSK	M	Outer Full	NV	50	31.000000	0.000047	PASS
N48	15	20	DFT-QPSK	H	Outer Full	NV	-30	-3.000000	-0.000005	PASS
N48	15	20	DFT-QPSK	H	Outer Full	NV	-20	19.000000	0.000029	PASS
N48	15	20	DFT-QPSK	H	Outer Full	NV	-10	-34.000000	-0.000051	PASS
N48	15	20	DFT-QPSK	H	Outer Full	NV	0	30.000000	0.000045	PASS
N48	15	20	DFT-QPSK	H	Outer Full	NV	10	24.000000	0.000036	PASS



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N48	15	20	DFT-QPSK	H	Outer_Full	NV	20	-25.000000	-0.000038	PASS
N48	15	20	DFT-QPSK	H	Outer_Full	NV	30	-34.000000	-0.000051	PASS
N48	15	20	DFT-QPSK	H	Outer_Full	NV	40	16.000000	0.000024	PASS
N48	15	20	DFT-QPSK	H	Outer_Full	NV	50	-15.000000	-0.000023	PASS

SCS 30K

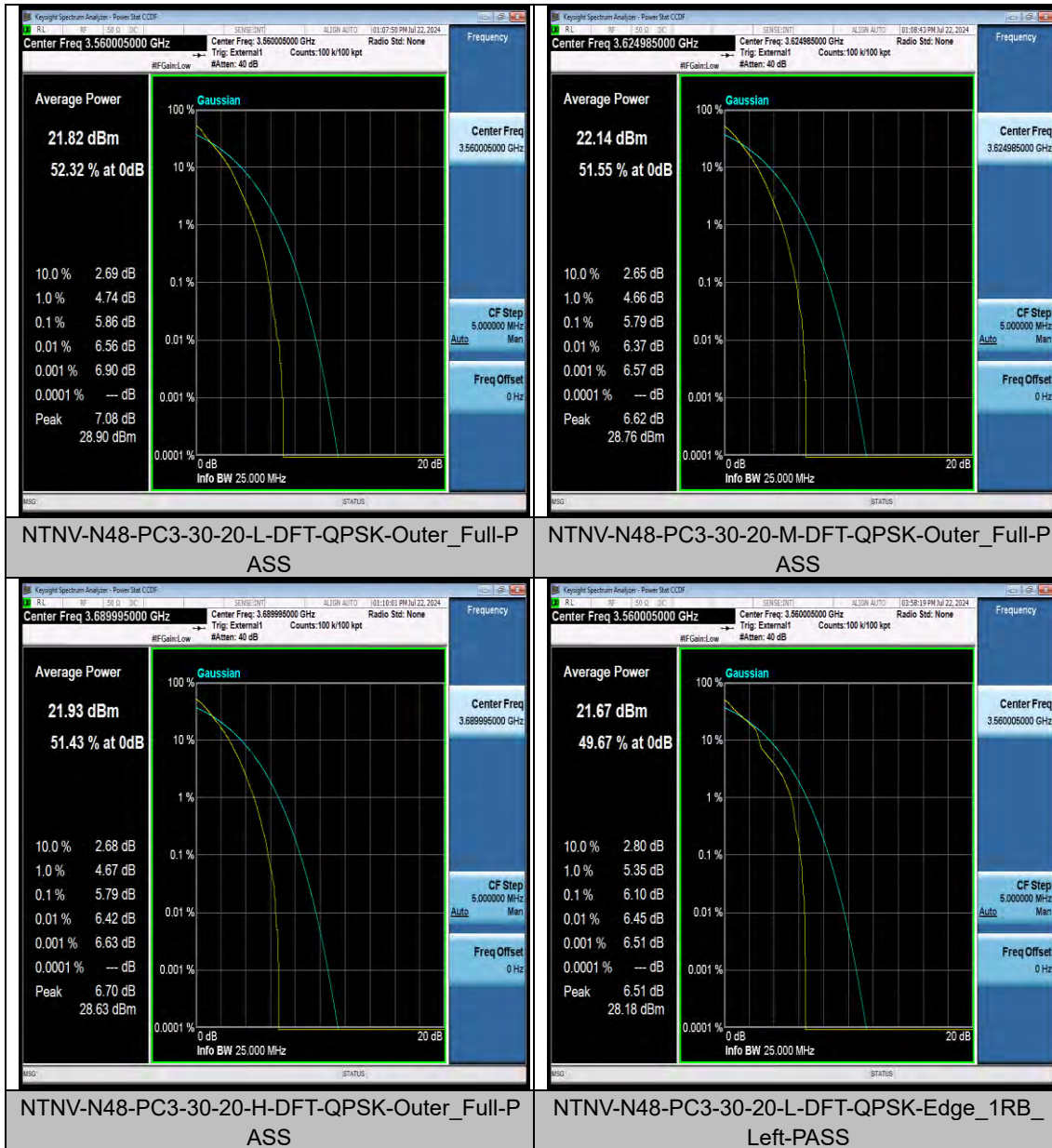
PEAK-TO-AVERAGE RATIO FOR SA PEAK-TO-AVERAGE RATIO(CCDF)

TEST RESULT

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N48	30	20	DFT-QPSK	L	Outer_Full	5.86	≤13	PASS
N48	30	20	DFT-QPSK	M	Outer_Full	5.79	≤13	PASS
N48	30	20	DFT-QPSK	H	Outer_Full	5.79	≤13	PASS
N48	30	20	DFT-QPSK	L	Edge_1RB_Left	6.10	≤13	PASS
N48	30	20	DFT-QPSK	M	Edge_1RB_Left	6.07	≤13	PASS
N48	30	20	DFT-QPSK	H	Edge_1RB_Left	6.13	≤13	PASS



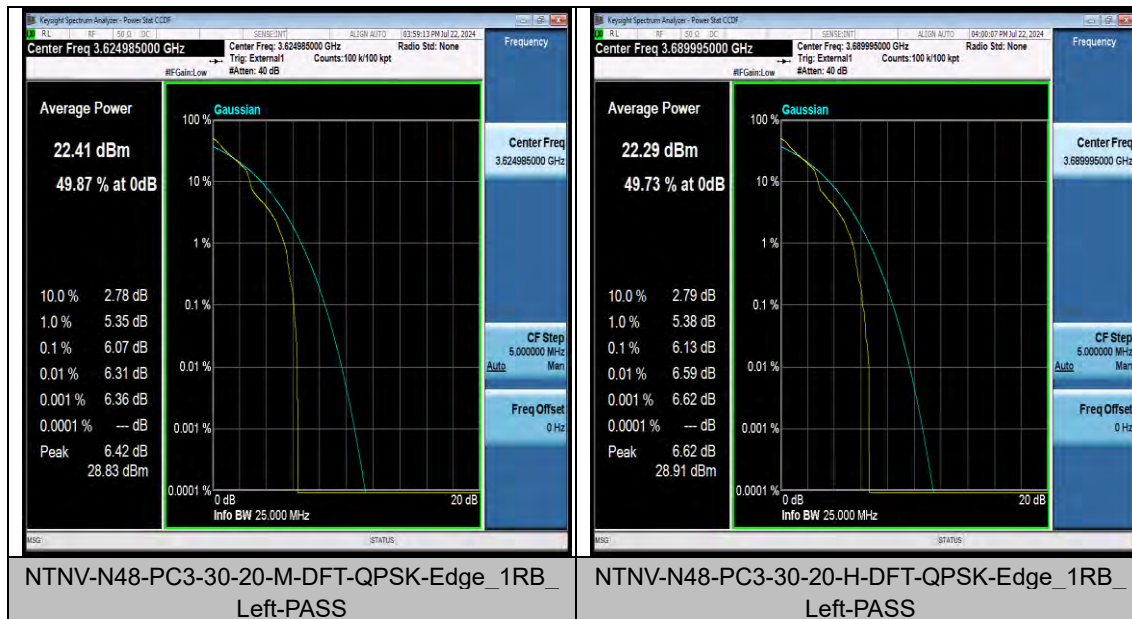
TEST GRAPHS





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