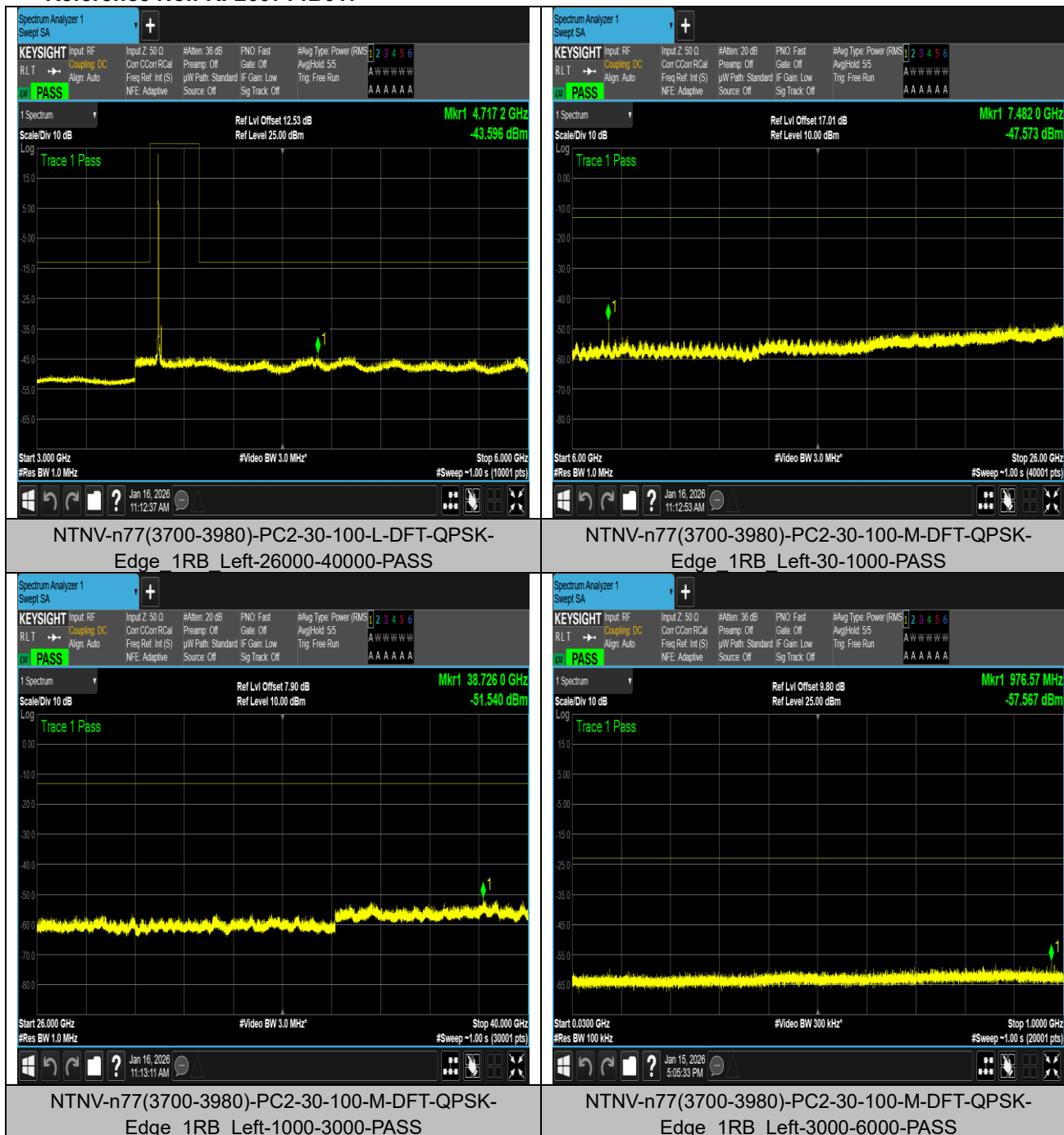




Reference No.: RF260714B017



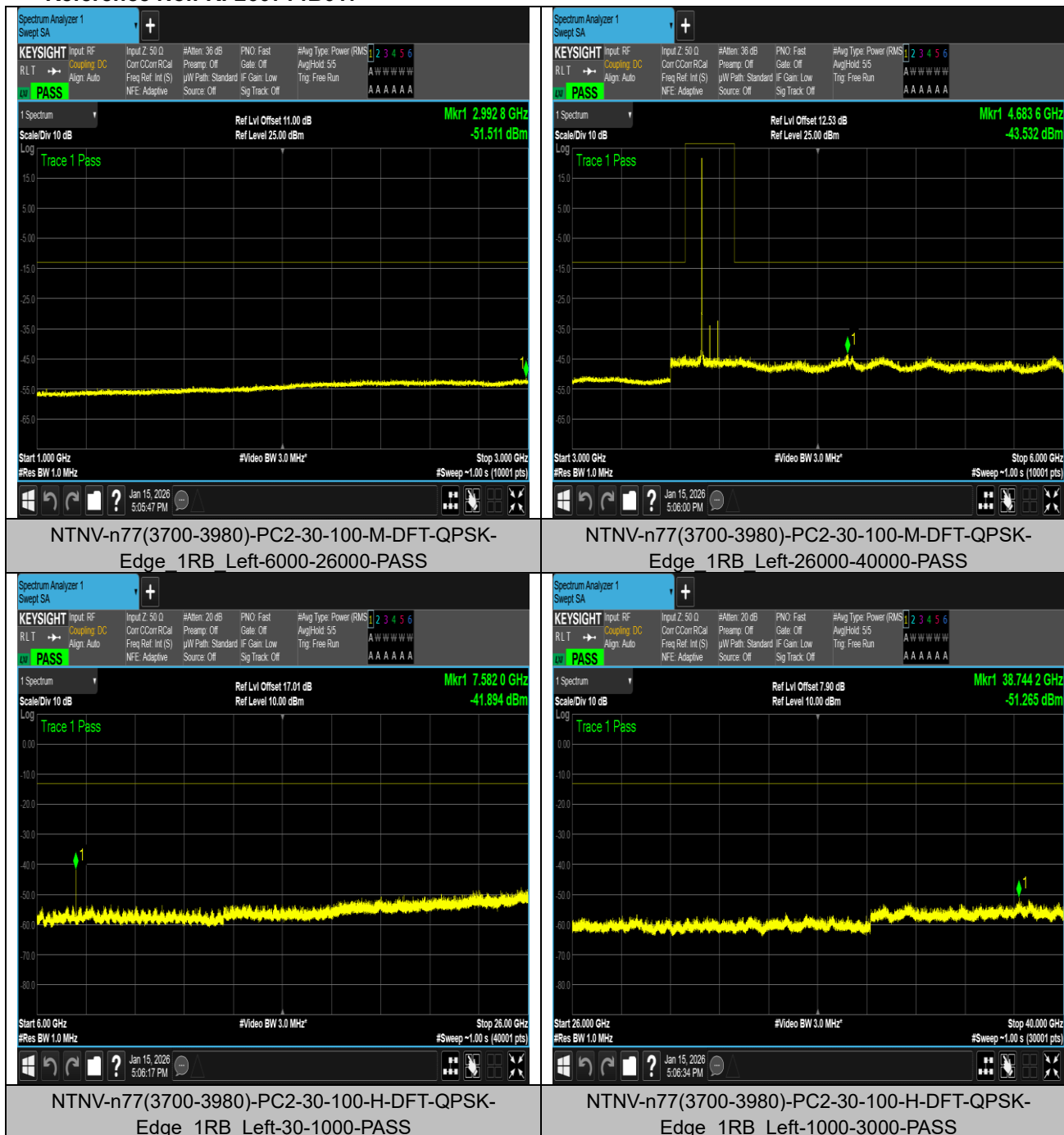
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4th Road, Chiwan Community, Zhaoshang Street,
Nanshan District, Shenzhen, Guangdong, P.R. CHINA

Mobile: +86 15118052731
Email:shimin.wang@boomwavelab.com



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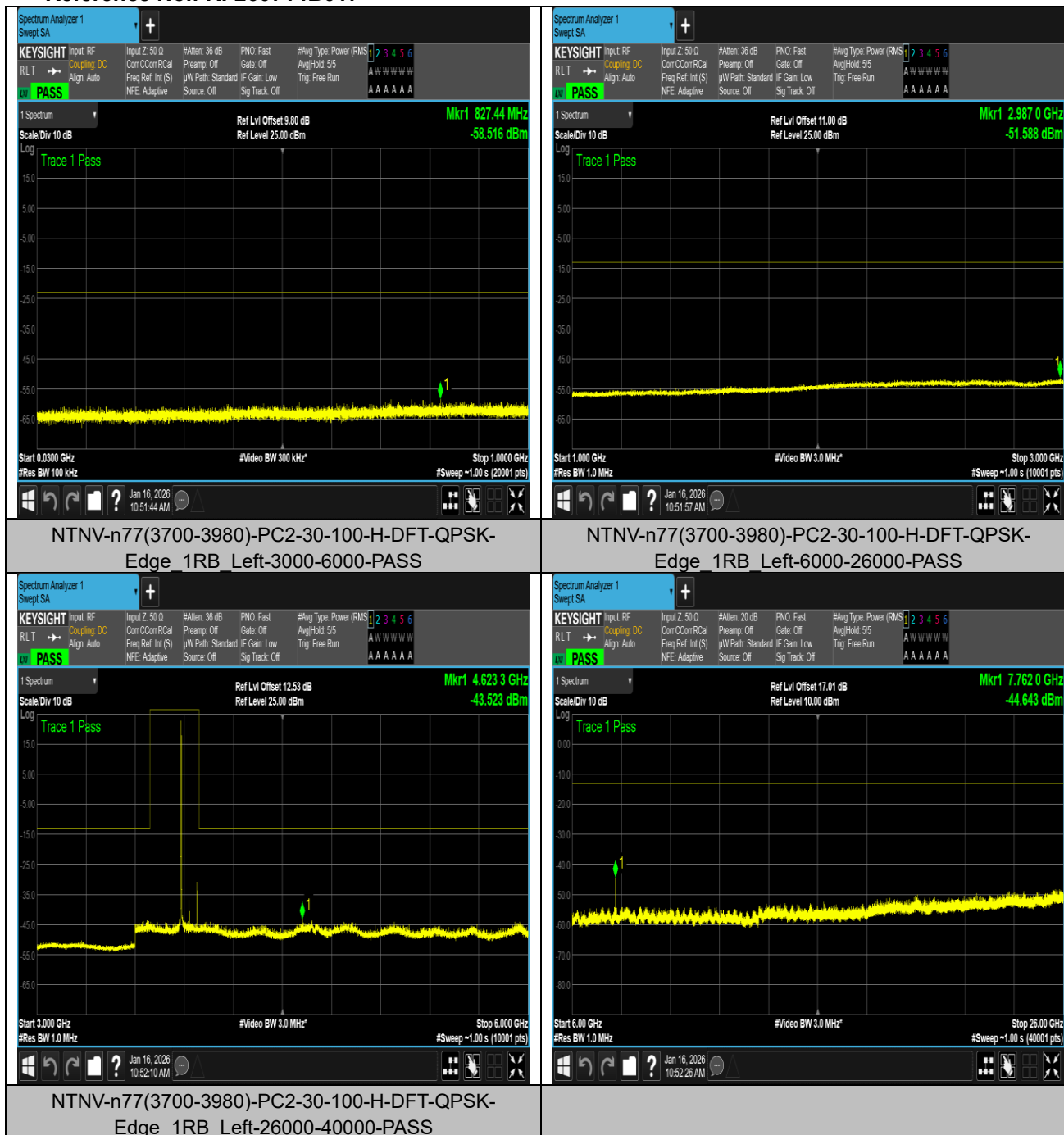
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Email:shimin.wang@boomwavelab.com



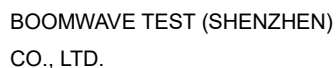
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Nanshan District, Shenzhen, Guangdong, P.R. CHINA

Mobile: +86 15118052731
Email:shimin.wang@boomwavelab.com



Mobile: +86 15118052731
Email:shimin.wang@boomwavelab.com



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FREQUENCY STABILITY FOR SA TEST RESULT-ANT0

Frequency Error VS. Voltage

Voltage										
Band	SCS (kHz)	Bandwidth (MHz)	Modulation	Channel	RB Config	Voltage (V)	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
n77(3700-3980)	30	20	DFT-QPSK	L	Outer_Full	VL	NT	2.543	0.000686	PASS
n77(3700-3980)	30	20	DFT-QPSK	L	Outer_Full	VN	NT	2.367	0.000638	PASS
n77(3700-3980)	30	20	DFT-QPSK	L	Outer_Full	VH	NT	6.503	0.001753	PASS
n77(3700-3980)	30	20	DFT-QPSK	H	Outer_Full	VL	NT	16.879	0.004252	PASS
n77(3700-3980)	30	20	DFT-QPSK	H	Outer_Full	VN	NT	3.223	0.000812	PASS
n77(3700-3980)	30	20	DFT-QPSK	H	Outer_Full	VH	NT	10.668	0.002687	PASS

Frequency Error VS. Temperature

Temperature										
Band	SCS (kHz)	Bandwidth (MHz)	Modulation	Channel	RB Config	Voltage	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
n77(3700-3980)	30	20	DFT-QPSK	L	Outer_Full	NV	-30	14.402	0.003882	PASS
n77(3700-3980)	30	20	DFT-QPSK	L	Outer_Full	NV	-20	1.170	0.000315	PASS
n77(3700-3980)	30	20	DFT-QPSK	L	Outer_Full	NV	-10	8.669	0.002336	PASS
n77(3700-3980)	30	20	DFT-QPSK	L	Outer_Full	NV	0	14.472	0.003901	PASS
n77(3700-3980)	30	20	DFT-QPSK	L	Outer_Full	NV	10	2.956	0.000797	PASS
n77(3700-3980)	30	20	DFT-QPSK	L	Outer_Full	NV	20	5.339	0.001439	PASS
n77(3700-3980)	30	20	DFT-QPSK	L	Outer_Full	NV	30	12.171	0.003281	PASS
n77(3700-3980)	30	20	DFT-QPSK	L	Outer_Full	NV	40	18.631	0.005022	PASS
n77(3700-3980)	30	20	DFT-QPSK	L	Outer_Full	NV	50	3.958	0.001067	PASS
n77(3700-3980)	30	20	DFT-QPSK	H	Outer_Full	NV	-30	16.141	0.004066	PASS
n77(3700-3980)	30	20	DFT-QPSK	H	Outer_Full	NV	-20	4.006	0.001009	PASS
n77(3700-3980)	30	20	DFT-QPSK	H	Outer_Full	NV	-10	19.972	0.005031	PASS

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4th Road, Chiwan Community, Zhaoshang Street,
Nanshan District, Shenzhen, Guangdong, P.R. CHINA

Mobile: +86 15118052731
Email:shimin.wang@boomwavelab.com



Reference No.: RF260714B017

-3980)										
n77(3700-3980)	30	20	DFT-QPSK	H	Outer_Full	NV	0	10.781	0.002716	PASS
n77(3700-3980)	30	20	DFT-QPSK	H	Outer_Full	NV	10	16.754	0.004220	PASS
n77(3700-3980)	30	20	DFT-QPSK	H	Outer_Full	NV	20	7.183	0.001809	PASS
n77(3700-3980)	30	20	DFT-QPSK	H	Outer_Full	NV	30	7.262	0.001829	PASS
n77(3700-3980)	30	20	DFT-QPSK	H	Outer_Full	NV	40	14.865	0.003744	PASS
n77(3700-3980)	30	20	DFT-QPSK	H	Outer_Full	NV	50	1.950	0.000491	PASS

TEST RESULT-ANT1

Frequency Error VS. Voltage

Voltage										
Band	SCS (kHz)	Bandwidth (MHz)	Modulation	Channel	RB Config	Voltage (V)	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
n77(3700-3980)	30	20	DFT-QPSK	L	Outer_Full	VL	NT	2.16	0.000582	PASS
n77(3700-3980)	30	20	DFT-QPSK	L	Outer_Full	VN	NT	1.442	0.000389	PASS
n77(3700-3980)	30	20	DFT-QPSK	L	Outer_Full	VH	NT	-10.529	-0.002838	PASS
n77(3700-3980)	30	20	DFT-QPSK	H	Outer_Full	VL	NT	2.954	0.000744	PASS
n77(3700-3980)	30	20	DFT-QPSK	H	Outer_Full	VN	NT	7.935	0.001999	PASS
n77(3700-3980)	30	20	DFT-QPSK	H	Outer_Full	VH	NT	5.185	0.001306	PASS

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Mobile: +86 15118052731
Email:shimin.wang@boomwavelab.com



Reference No.: RF260714B017

Frequency Error VS. Temperature

Temperature										
Band	SCS (kHz)	Bandwidth (MHz)	Modulation	Channel	RB Config	Voltage	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
n77(3700-3980)	30	20	DFT-QPSK	L	Outer_Full	NV	-30	-11.305	- 0.003047	PASS
n77(3700-3980)	30	20	DFT-QPSK	L	Outer_Full	NV	-20	-3.937	- 0.001061	PASS
n77(3700-3980)	30	20	DFT-QPSK	L	Outer_Full	NV	-10	-10.27	- 0.002768	PASS
n77(3700-3980)	30	20	DFT-QPSK	L	Outer_Full	NV	0	-10.023	- 0.002702	PASS
n77(3700-3980)	30	20	DFT-QPSK	L	Outer_Full	NV	10	-12.028	- 0.003242	PASS
n77(3700-3980)	30	20	DFT-QPSK	L	Outer_Full	NV	20	-4.276	- 0.001153	PASS
n77(3700-3980)	30	20	DFT-QPSK	L	Outer_Full	NV	30	-5.287	- 0.001425	PASS
n77(3700-3980)	30	20	DFT-QPSK	L	Outer_Full	NV	40	-2.247	- 0.000606	PASS
n77(3700-3980)	30	20	DFT-QPSK	L	Outer_Full	NV	50	-4.046	- 0.001091	PASS
n77(3700-3980)	30	20	DFT-QPSK	H	Outer_Full	NV	-30	8.636	0.002175	PASS
n77(3700-3980)	30	20	DFT-QPSK	H	Outer_Full	NV	-20	11.105	0.002797	PASS
n77(3700-3980)	30	20	DFT-QPSK	H	Outer_Full	NV	-10	18.809	0.004738	PASS
n77(3700-3980)	30	20	DFT-QPSK	H	Outer_Full	NV	0	5.334	0.001344	PASS
n77(3700-3980)	30	20	DFT-QPSK	H	Outer_Full	NV	10	5.063	0.001275	PASS
n77(3700-3980)	30	20	DFT-QPSK	H	Outer_Full	NV	20	18.471	0.004653	PASS
n77(3700-3980)	30	20	DFT-QPSK	H	Outer_Full	NV	30	6.561	0.001653	PASS
n77(3700-3980)	30	20	DFT-QPSK	H	Outer_Full	NV	40	12.963	0.003265	PASS
n77(3700-3980)	30	20	DFT-QPSK	H	Outer_Full	NV	50	12.510	0.003151	PASS

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CO., LTD.

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4th Road, Chiwan Community, Zhaoshang Street,
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Mobile: +86 15118052731
Email:shimin.wang@boomwavelab.com



Reference No.: RF260714B017

N78-MIMO-3450-3550

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

TEST RESULT-ANT0

Band	SCS (kHz)	Bandwidth (MHz)	Modulation	Channel	RB Config	Result (dB)	Limit	Verdict
n78(3450-3550)	30	50	DFT-QPSK	L	Edge_1RB_Left	10.32	≤13dB	PASS
n78(3450-3550)	30	50	DFT-QPSK	L	Outer_Full	12.51	≤13dB	PASS
n78(3450-3550)	30	50	DFT-QPSK	M	Edge_1RB_Left	11.9	≤13dB	PASS
n78(3450-3550)	30	50	DFT-QPSK	M	Outer_Full	10.57	≤13dB	PASS
n78(3450-3550)	30	50	DFT-QPSK	H	Edge_1RB_Left	9.98	≤13dB	PASS
n78(3450-3550)	30	50	DFT-QPSK	H	Outer_Full	10.4	≤13dB	PASS
n78(3450-3550)	30	70	DFT-QPSK	L	Edge_1RB_Left	11.69	≤13dB	PASS
n78(3450-3550)	30	70	DFT-QPSK	L	Outer_Full	10.27	≤13dB	PASS
n78(3450-3550)	30	70	DFT-QPSK	M	Edge_1RB_Left	11.3	≤13dB	PASS
n78(3450-3550)	30	70	DFT-QPSK	M	Outer_Full	12.59	≤13dB	PASS
n78(3450-3550)	30	70	DFT-QPSK	H	Edge_1RB_Left	10.32	≤13dB	PASS
n78(3450-3550)	30	70	DFT-QPSK	H	Outer_Full	12	≤13dB	PASS
n78(3450-3550)	30	90	DFT-QPSK	L	Edge_1RB_Left	9.32	≤13dB	PASS
n78(3450-3550)	30	90	DFT-QPSK	L	Outer_Full	10.83	≤13dB	PASS
n78(3450-3550)	30	90	DFT-QPSK	M	Edge_1RB_Left	12.93	≤13dB	PASS
n78(3450-3550)	30	90	DFT-QPSK	M	Outer_Full	11.47	≤13dB	PASS
n78(3450-3550)	30	90	DFT-QPSK	H	Edge_1RB_Left	12.15	≤13dB	PASS
n78(3450-3550)	30	90	DFT-QPSK	H	Outer_Full	9.77	≤13dB	PASS



Reference No.: RF260714B017
TEST GRAPHS-ANT0



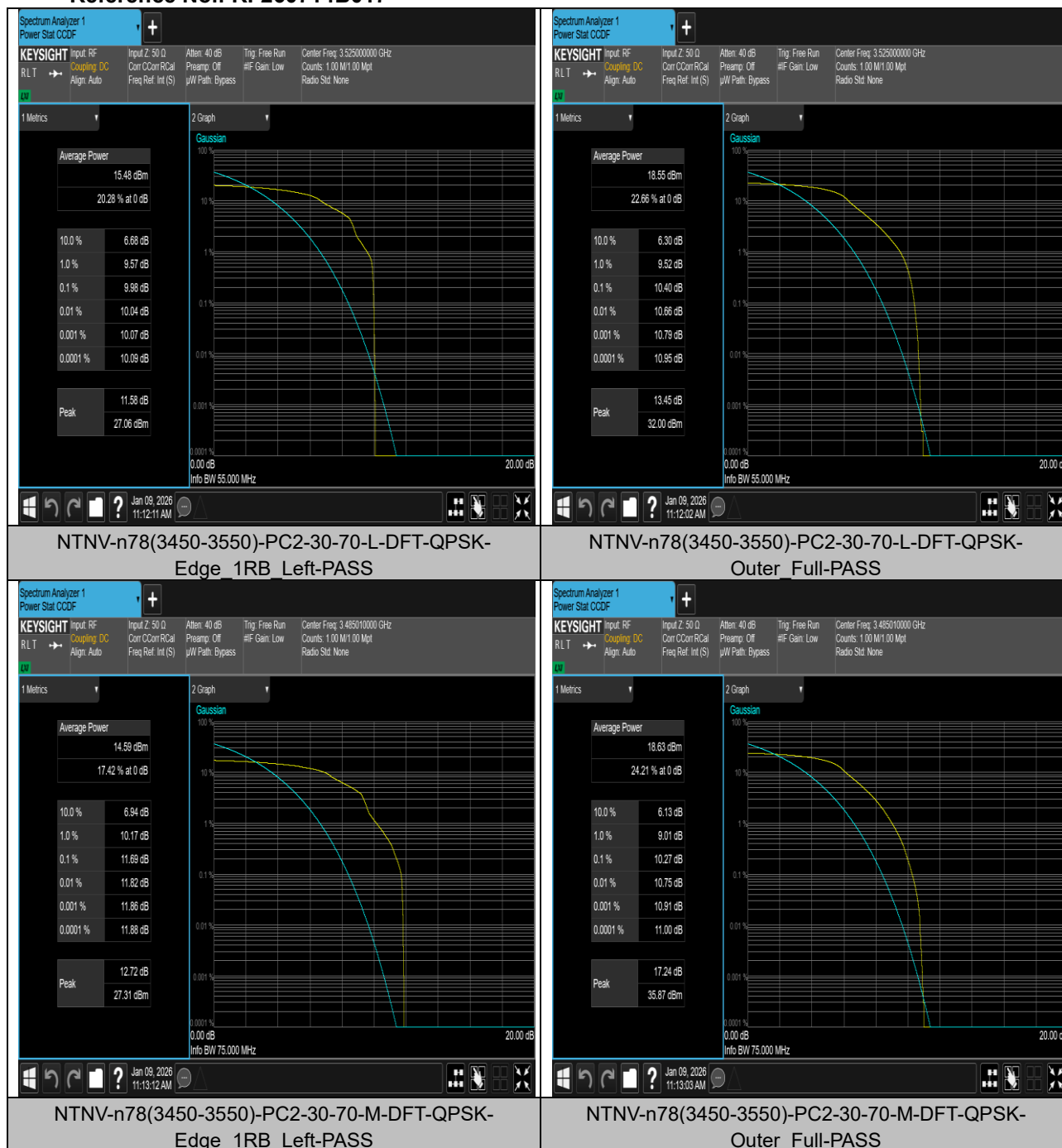
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4th Road, Chiwan Community, Zhaoshang Street,
Nanshan District, Shenzhen, Guangdong, P.R. CHINA

Mobile: +86 15118052731
Email:shimin.wang@boomwavelab.com



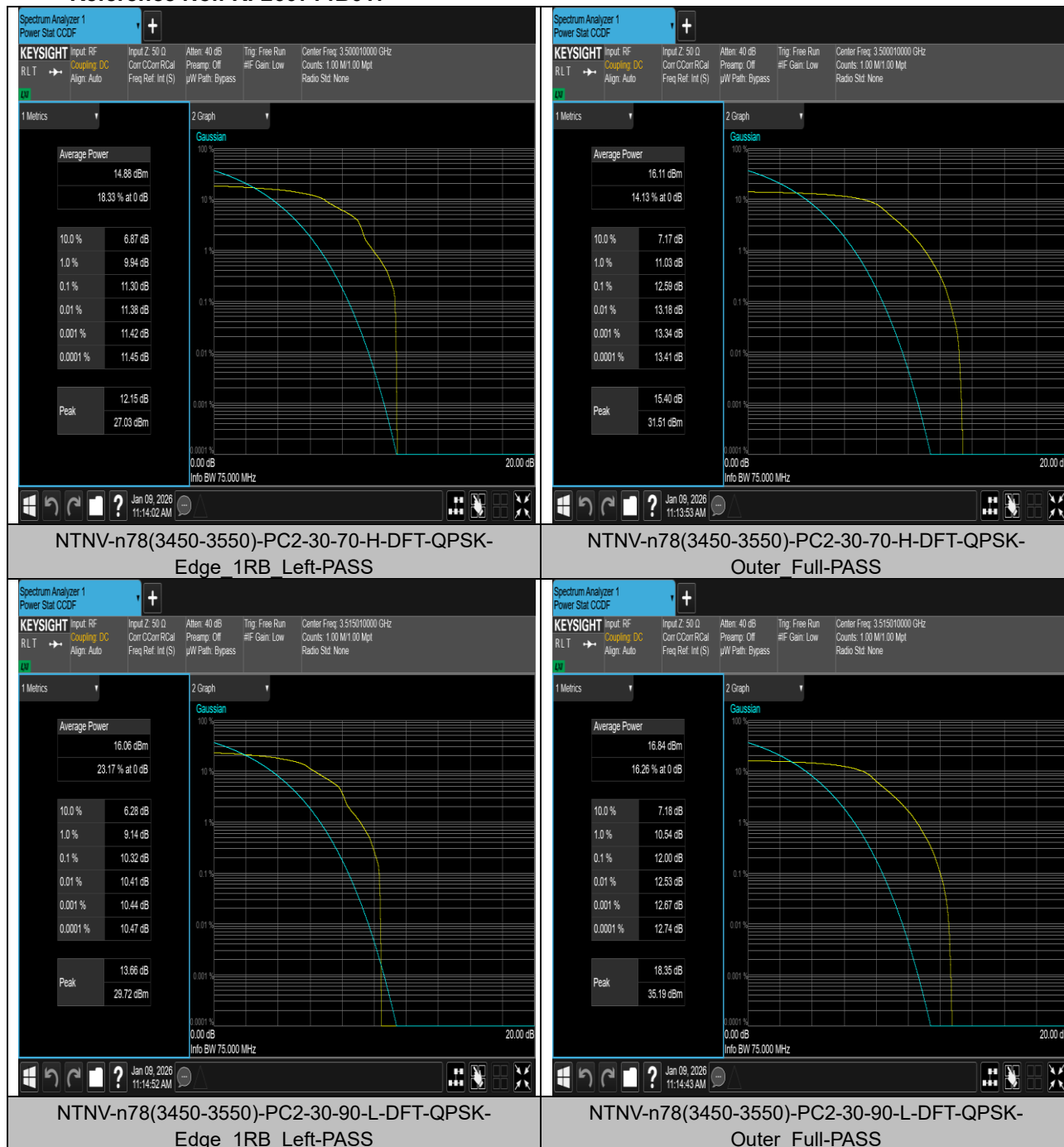
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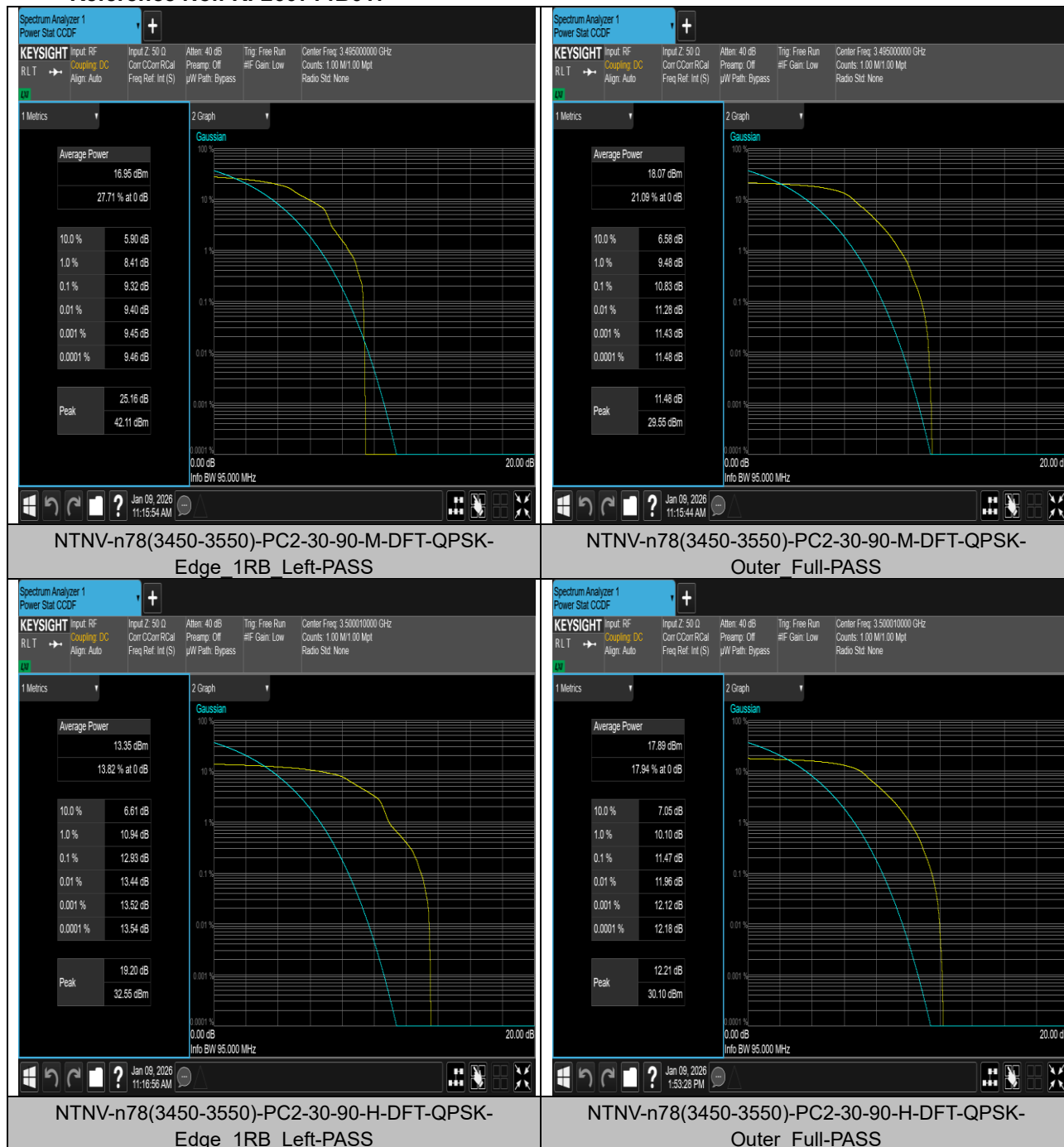


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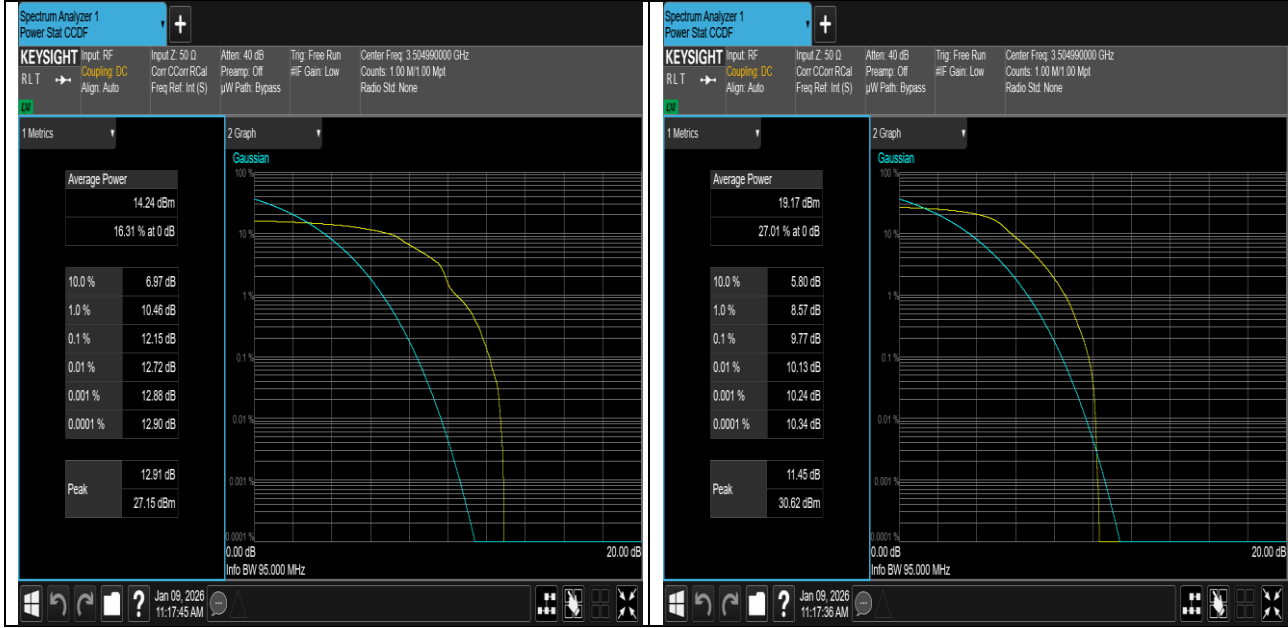
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TEST RESULT-ANT1

Band	SCS (kHz)	Bandwidth (MHz)	Modulation	Channel	RB Config	Result (dB)	Limit	Verdict
n78(3450-3550)	30	50	DFT-QPSK	L	Edge_1RB_Left	10.92	≤13dB	PASS
n78(3450-3550)	30	50	DFT-QPSK	L	Outer_Full	11.31	≤13dB	PASS
n78(3450-3550)	30	50	DFT-QPSK	M	Edge_1RB_Left	12.54	≤13dB	PASS
n78(3450-3550)	30	50	DFT-QPSK	M	Outer_Full	10.67	≤13dB	PASS
n78(3450-3550)	30	50	DFT-QPSK	H	Edge_1RB_Left	11.44	≤13dB	PASS
n78(3450-3550)	30	50	DFT-QPSK	H	Outer_Full	12.78	≤13dB	PASS
n78(3450-3550)	30	70	DFT-QPSK	L	Edge_1RB_Left	10.65	≤13dB	PASS
n78(3450-3550)	30	70	DFT-QPSK	L	Outer_Full	11.79	≤13dB	PASS
n78(3450-3550)	30	70	DFT-QPSK	M	Edge_1RB_Left	11.52	≤13dB	PASS
n78(3450-3550)	30	70	DFT-QPSK	M	Outer_Full	10.95	≤13dB	PASS
n78(3450-3550)	30	70	DFT-QPSK	H	Edge_1RB_Left	10.89	≤13dB	PASS
n78(3450-3550)	30	70	DFT-QPSK	H	Outer_Full	11.03	≤13dB	PASS
n78(3450-3550)	30	90	DFT-QPSK	L	Edge_1RB_Left	12.46	≤13dB	PASS
n78(3450-3550)	30	90	DFT-QPSK	L	Outer_Full	10.36	≤13dB	PASS
n78(3450-3550)	30	90	DFT-QPSK	M	Edge_1RB_Left	12.04	≤13dB	PASS
n78(3450-3550)	30	90	DFT-QPSK	M	Outer_Full	10.13	≤13dB	PASS
n78(3450-3550)	30	90	DFT-QPSK	H	Edge_1RB_Left	10.56	≤13dB	PASS
n78(3450-3550)	30	90	DFT-QPSK	H	Outer_Full	8.23	≤13dB	PASS

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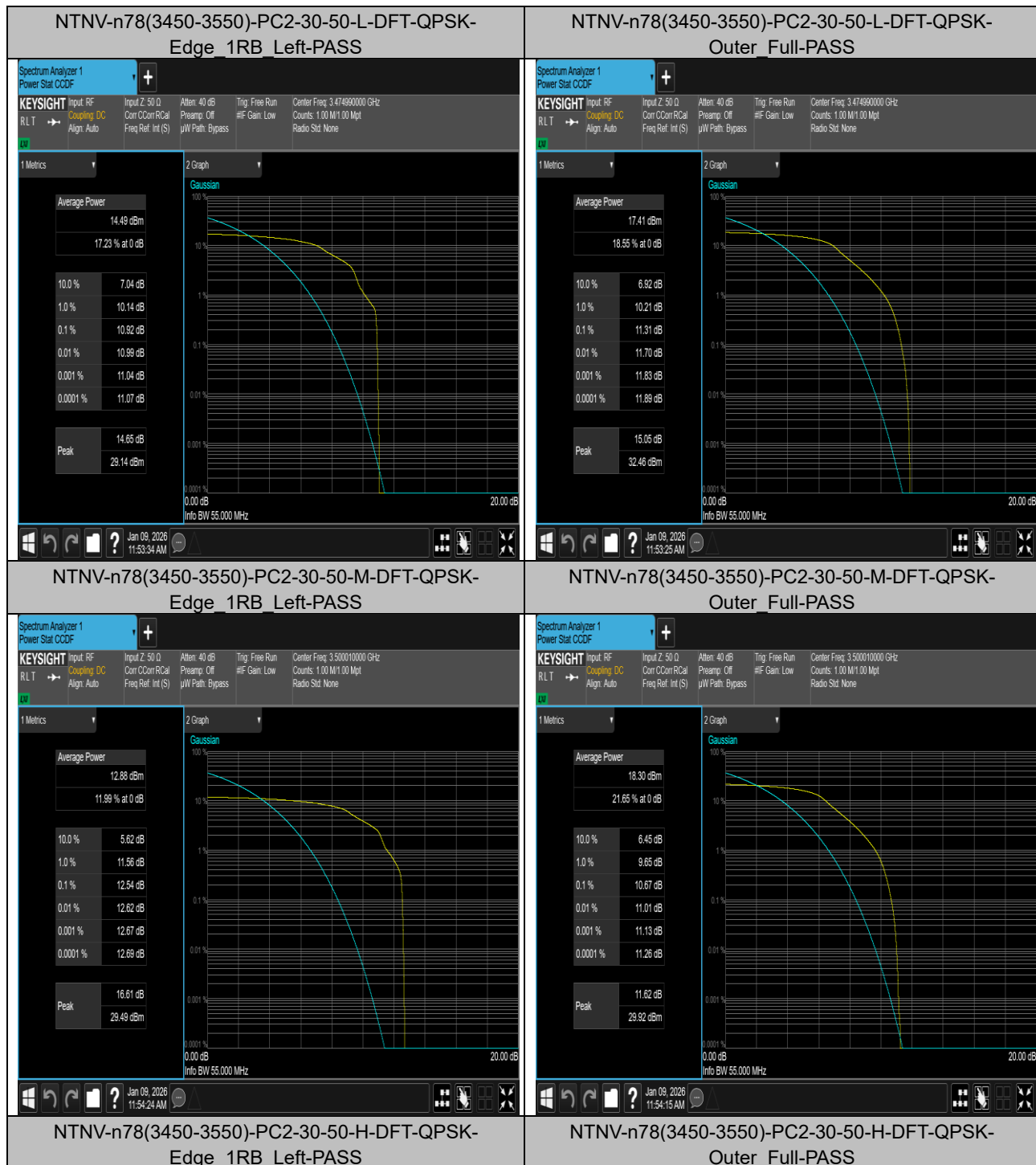
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Mobile: +86 15118052731
Email:shimin.wang@boomwavelab.com



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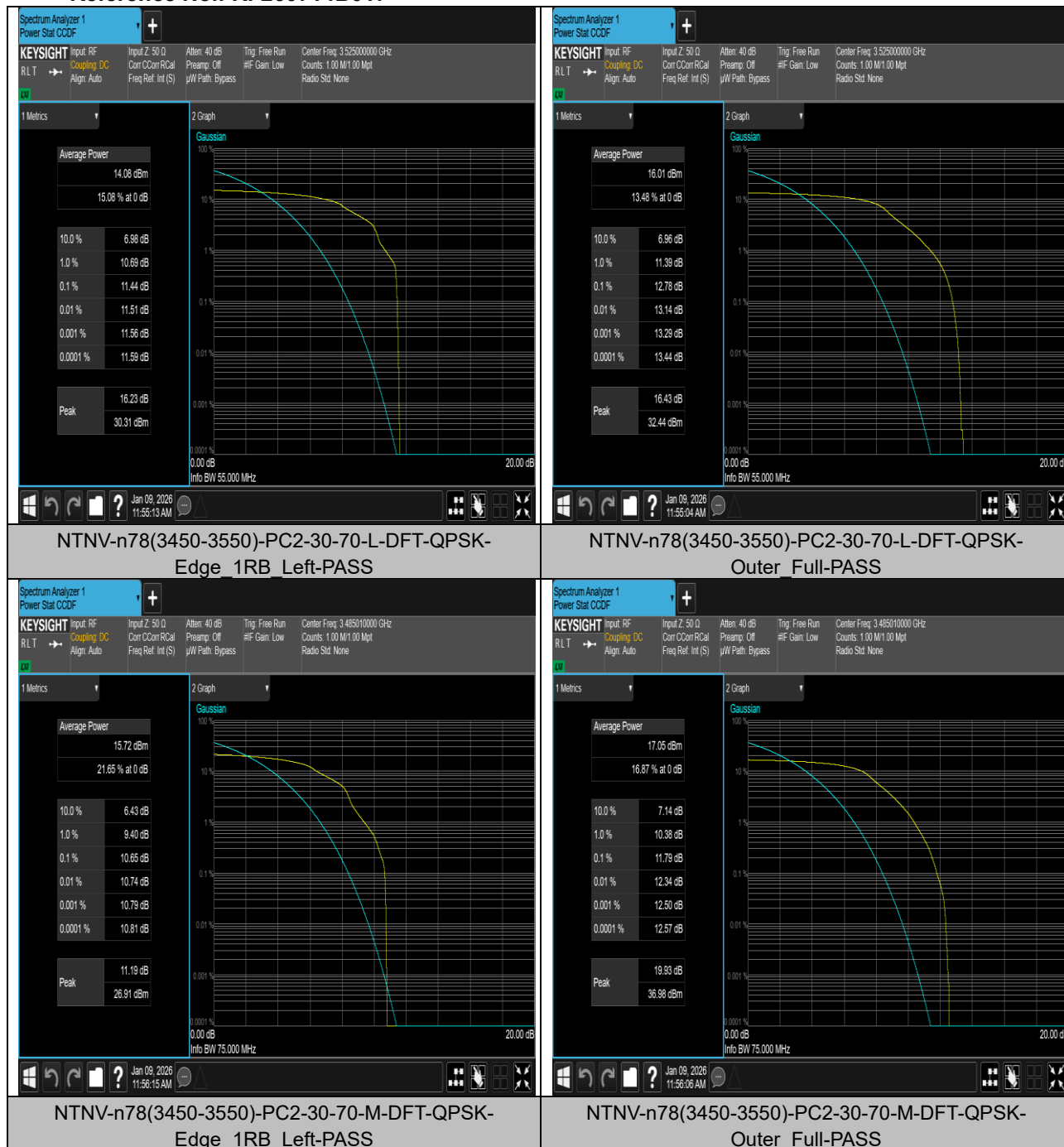
TEST GRAPHS-ANT1

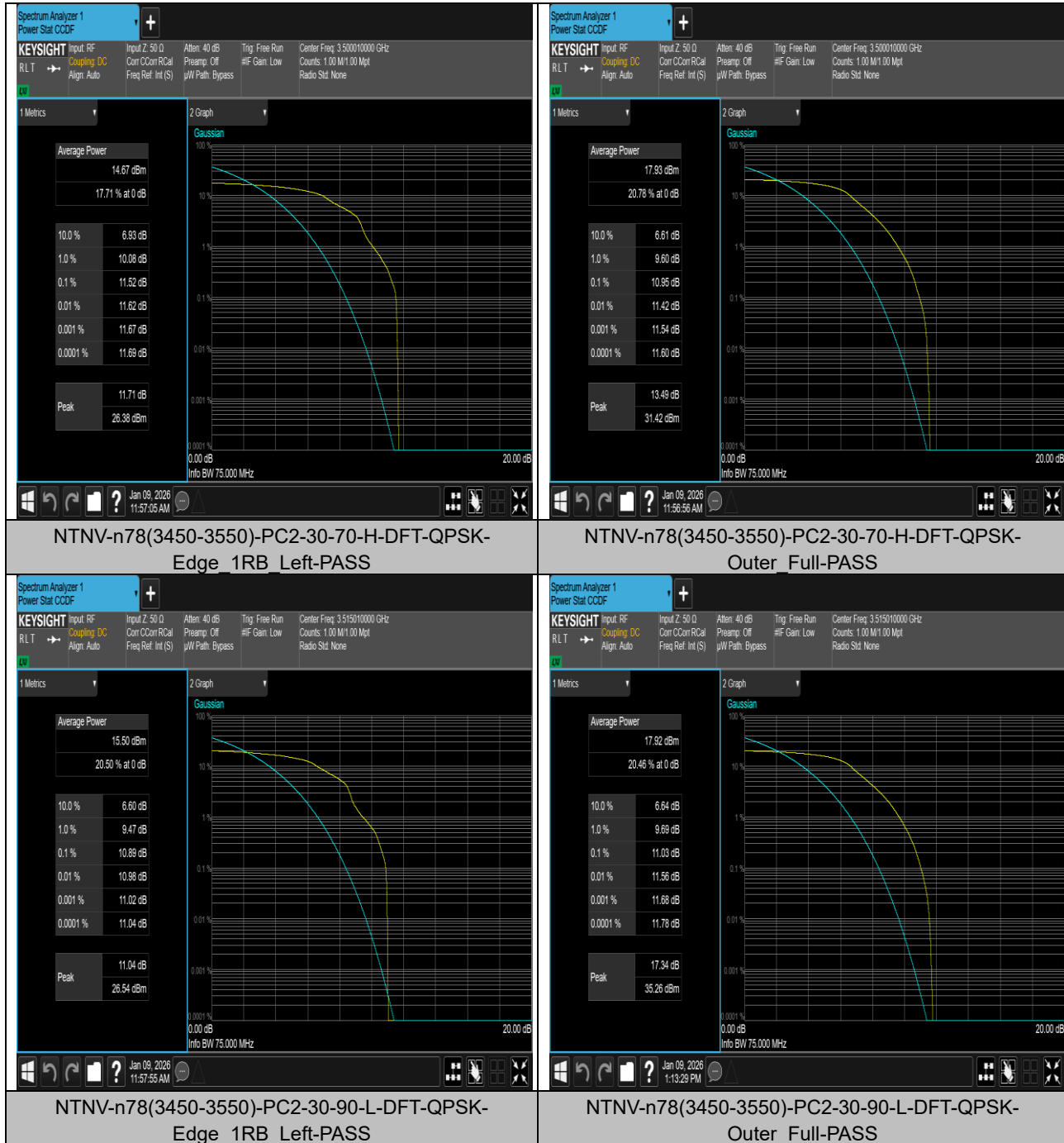


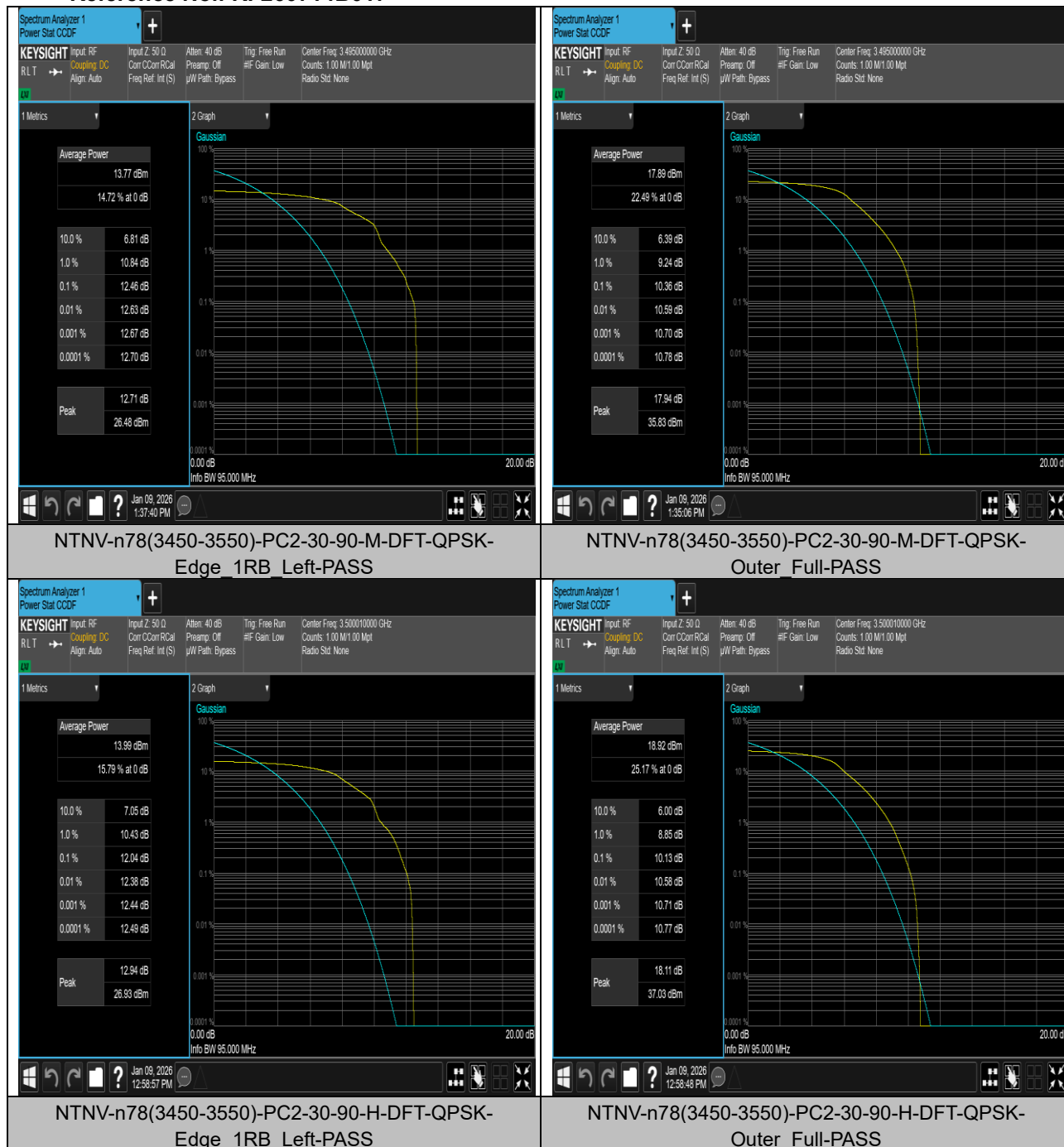
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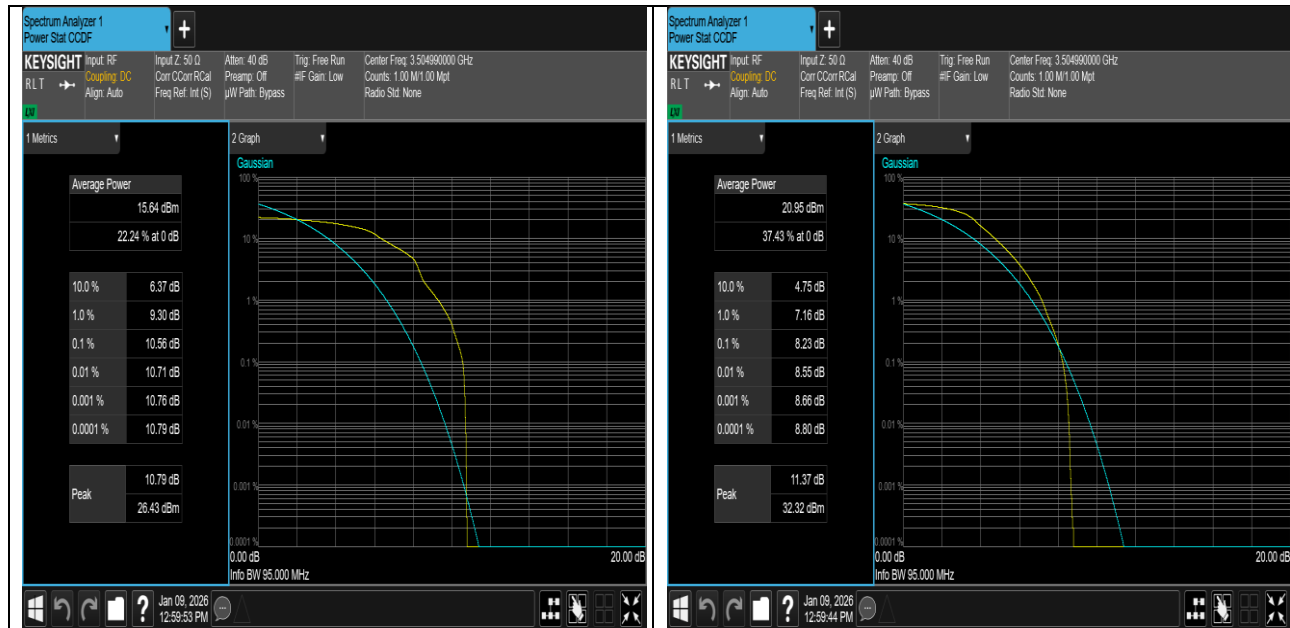








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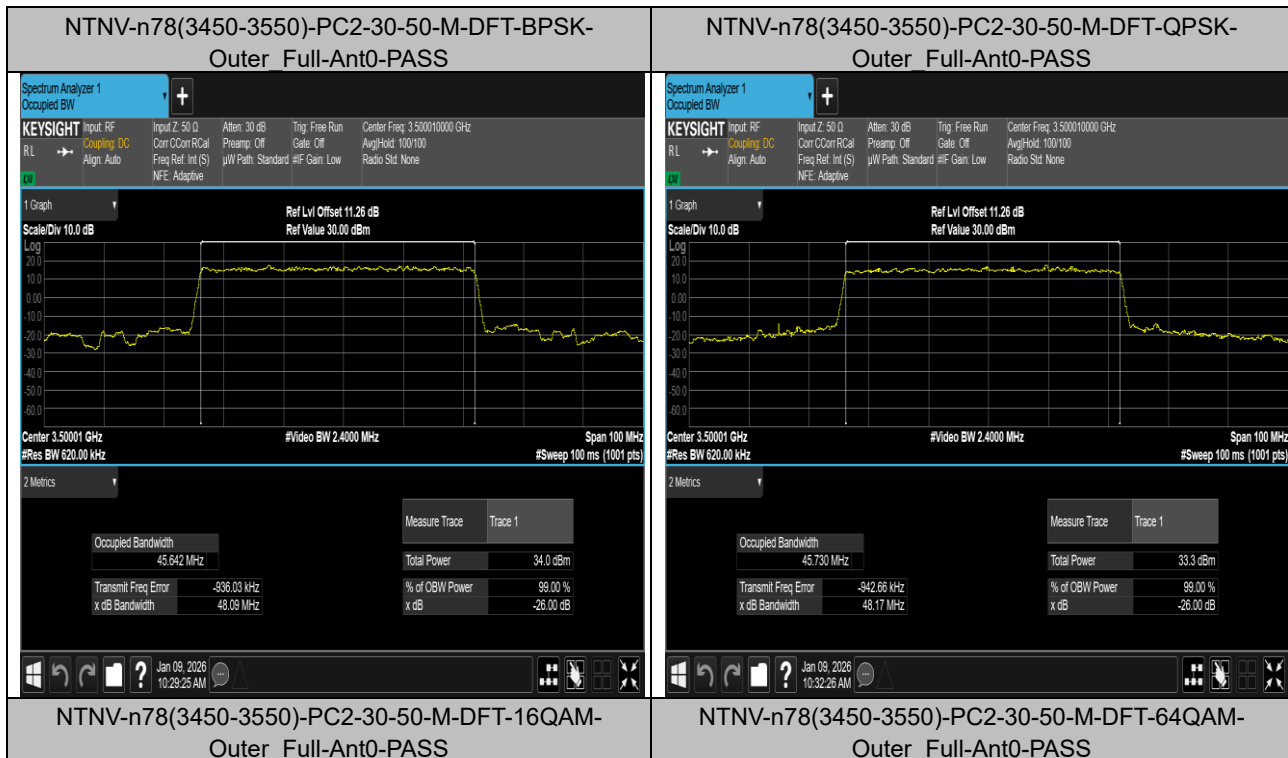


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26DB BANDWIDTH AND OCCUPIED BANDWIDTH FOR SA TEST RESULT-ANT0

Band	SCS (kHz)	Bandwidth (MHz)	Modulation	Channel	RB Config	OBW (MHz)	EBW (MHz)	Verdict
n78(3450-3550)	30	50	DFT-BPSK	M	Outer_Full	45.642	48.09	PASS
n78(3450-3550)	30	50	DFT-QPSK	M	Outer_Full	45.730	48.17	PASS
n78(3450-3550)	30	50	DFT-16QAM	M	Outer_Full	45.553	48.13	PASS
n78(3450-3550)	30	50	DFT-64QAM	M	Outer_Full	45.646	48.07	PASS
n78(3450-3550)	30	50	DFT-256QAM	M	Outer_Full	45.674	48.09	PASS
n78(3450-3550)	30	70	DFT-BPSK	M	Outer_Full	64.183	67.22	PASS
n78(3450-3550)	30	70	DFT-QPSK	M	Outer_Full	64.265	67.30	PASS
n78(3450-3550)	30	70	DFT-16QAM	M	Outer_Full	64.120	67.08	PASS
n78(3450-3550)	30	70	DFT-64QAM	M	Outer_Full	64.144	67.13	PASS
n78(3450-3550)	30	70	DFT-256QAM	M	Outer_Full	64.213	67.04	PASS
n78(3450-3550)	30	90	DFT-BPSK	M	Outer_Full	86.649	90.09	PASS
n78(3450-3550)	30	90	DFT-QPSK	M	Outer_Full	86.640	90.15	PASS
n78(3450-3550)	30	90	DFT-16QAM	M	Outer_Full	86.800	90.37	PASS
n78(3450-3550)	30	90	DFT-64QAM	M	Outer_Full	86.531	90.10	PASS
n78(3450-3550)	30	90	DFT-256QAM	M	Outer_Full	86.715	90.15	PASS

TEST GRAPHS-ANT0



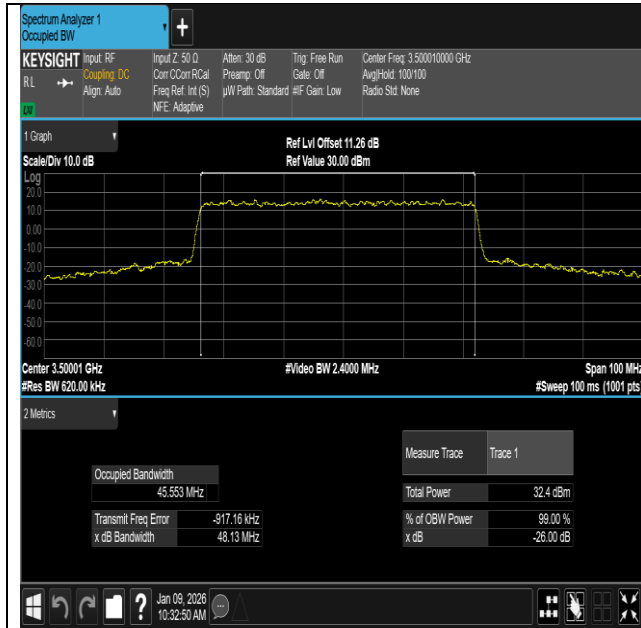
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4th Road, Chiwan Community, Zhaoshang Street,
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Mobile: +86 15118052731
Email:shimin.wang@boomwavelab.com



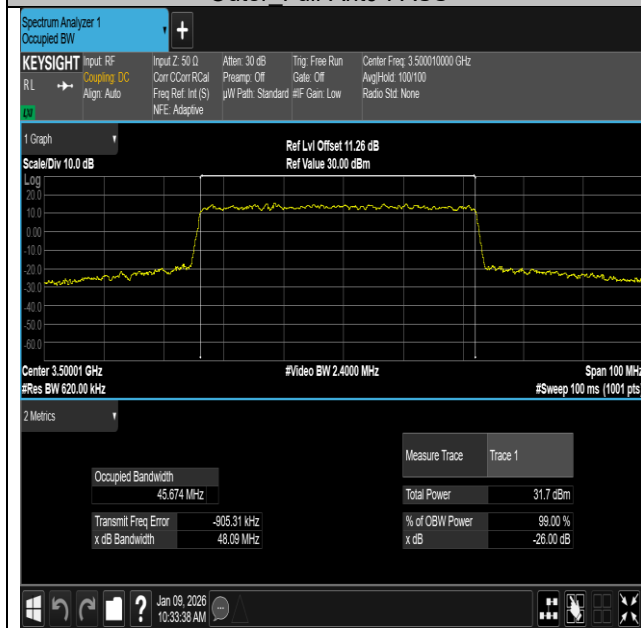
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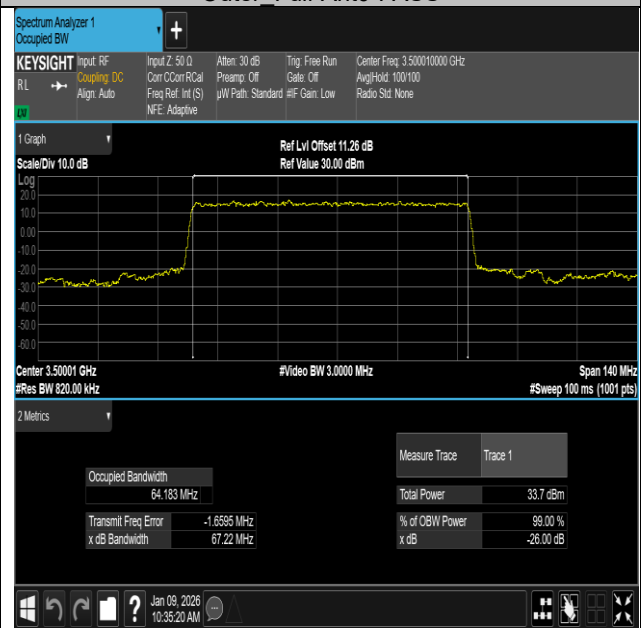
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NTNV-n78(3450-3550)-PC2-30-70-M-DFT-BPSK-
Outer_Full-Ant0-PASS



NTNV-n78(3450-3550)-PC2-30-70-M-DFT-QPSK-
Outer_Full-Ant0-PASS



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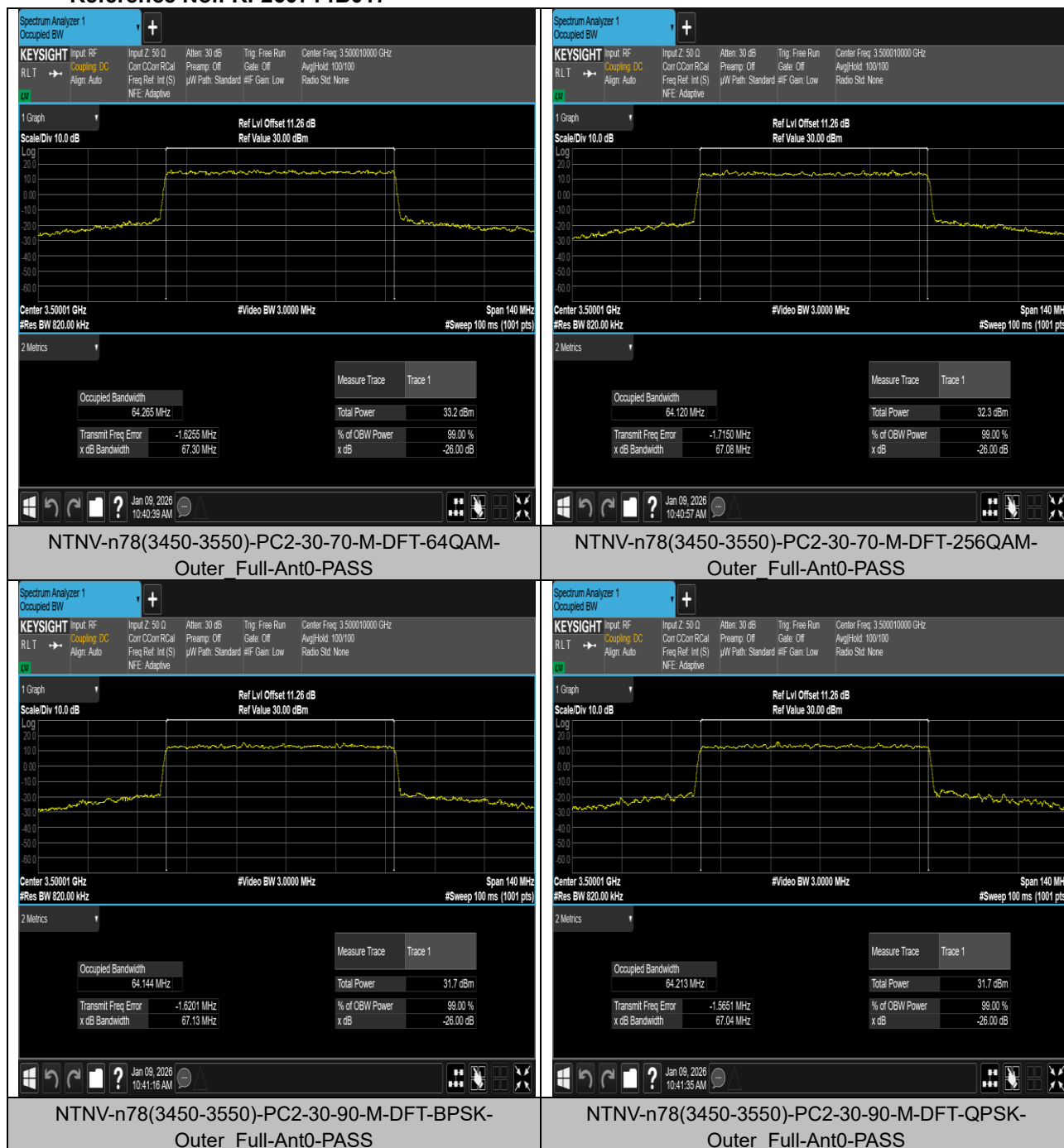
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Mobile: +86 15118052731
Email:shimin.wang@boomwavelab.com



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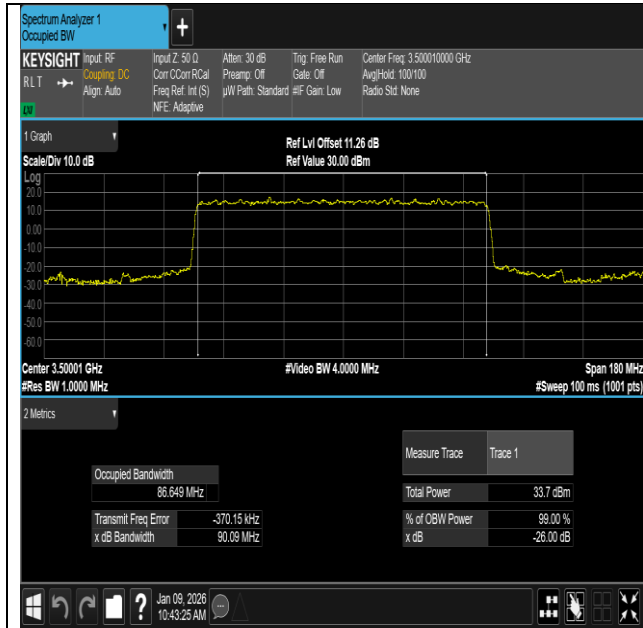
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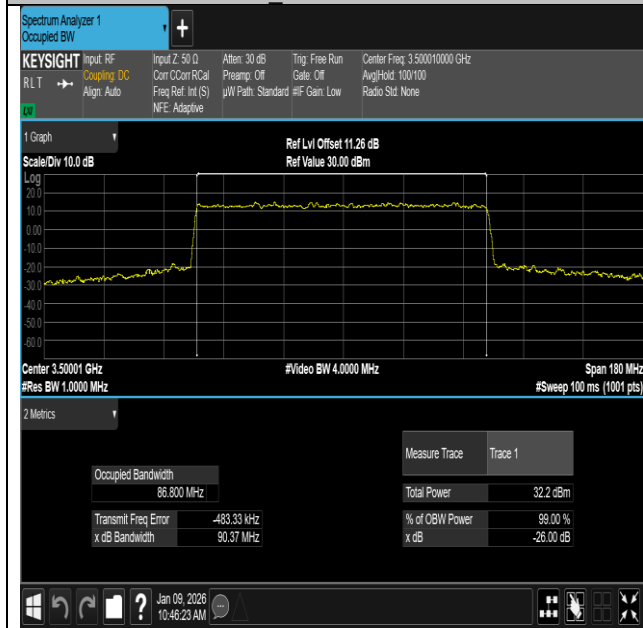
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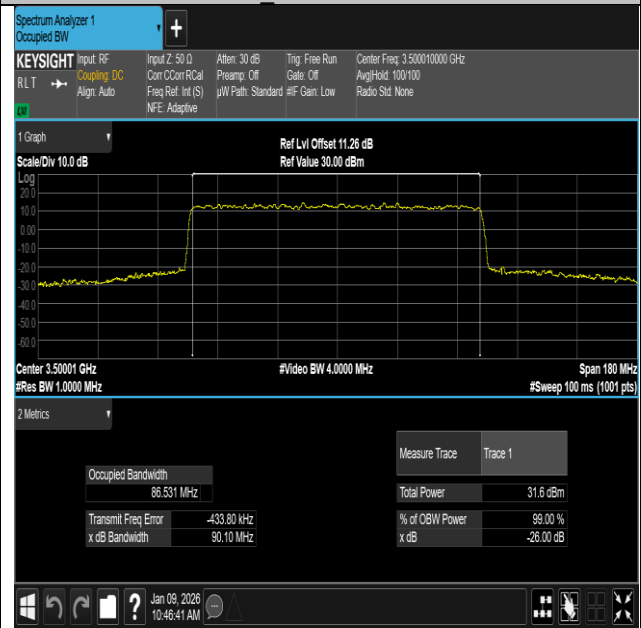
NTNV-n78(3450-3550)-PC2-30-90-M-DFT-16QAM-
Outer_Full-Ant0-PASS



NTNV-n78(3450-3550)-PC2-30-90-M-DFT-64QAM-
Outer_Full-Ant0-PASS



NTNV-n78(3450-3550)-PC2-30-90-M-DFT-256QAM-
Outer_Full-Ant0-PASS



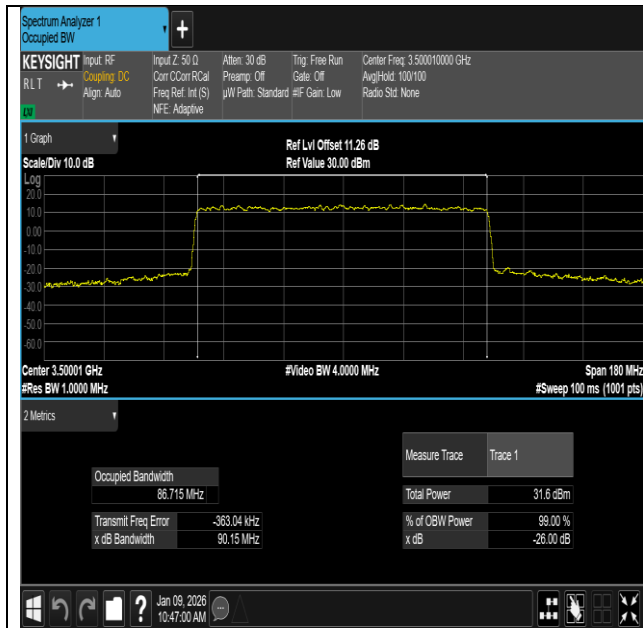
BOOMWAVE TEST (SHENZHEN)
CO., LTD.

Room B38, Warehouse A5(Chiwan No.1), No.3 Chiwan
4th Road, Chiwan Community, Zhaoshang Street,
Nanshan District, Shenzhen, Guangdong, P.R. CHINA

Mobile: +86 15118052731
Email:shimin.wang@boomwavelab.com



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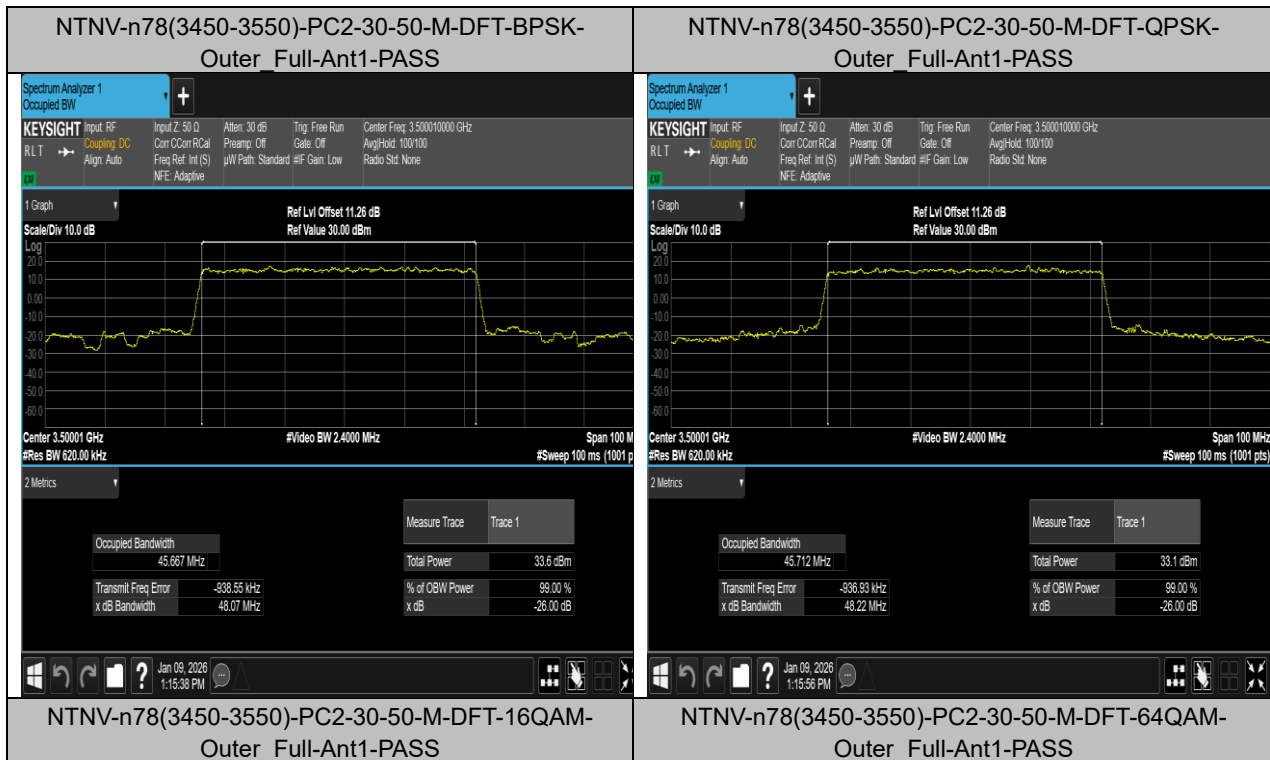


Reference No.: RF260714B017

TEST RESULT-ANT1

Band	SCS (kHz)	Bandwidth (MHz)	Modulation	Channel	RB Config	OBW (MHz)	EBW (MHz)	Verdict
n78(3450-3550)	30	50	DFT-BPSK	M	Outer_Full	45.667	48.07	PASS
n78(3450-3550)	30	50	DFT-QPSK	M	Outer_Full	45.712	48.22	PASS
n78(3450-3550)	30	50	DFT-16QAM	M	Outer_Full	45.574	48.14	PASS
n78(3450-3550)	30	50	DFT-64QAM	M	Outer_Full	45.653	48.04	PASS
n78(3450-3550)	30	50	DFT-256QAM	M	Outer_Full	45.702	48.09	PASS
n78(3450-3550)	30	70	DFT-BPSK	M	Outer_Full	64.189	66.99	PASS
n78(3450-3550)	30	70	DFT-QPSK	M	Outer_Full	64.292	67.32	PASS
n78(3450-3550)	30	70	DFT-16QAM	M	Outer_Full	64.057	67.16	PASS
n78(3450-3550)	30	70	DFT-64QAM	M	Outer_Full	64.169	67.19	PASS
n78(3450-3550)	30	70	DFT-256QAM	M	Outer_Full	64.204	67.09	PASS
n78(3450-3550)	30	90	DFT-BPSK	M	Outer_Full	86.629	90.18	PASS
n78(3450-3550)	30	90	DFT-QPSK	M	Outer_Full	86.565	90.13	PASS
n78(3450-3550)	30	90	DFT-16QAM	M	Outer_Full	86.817	90.37	PASS
n78(3450-3550)	30	90	DFT-64QAM	M	Outer_Full	86.513	90.07	PASS
n78(3450-3550)	30	90	DFT-256QAM	M	Outer_Full	86.680	90.07	PASS

TEST GRAPHS-ANT1



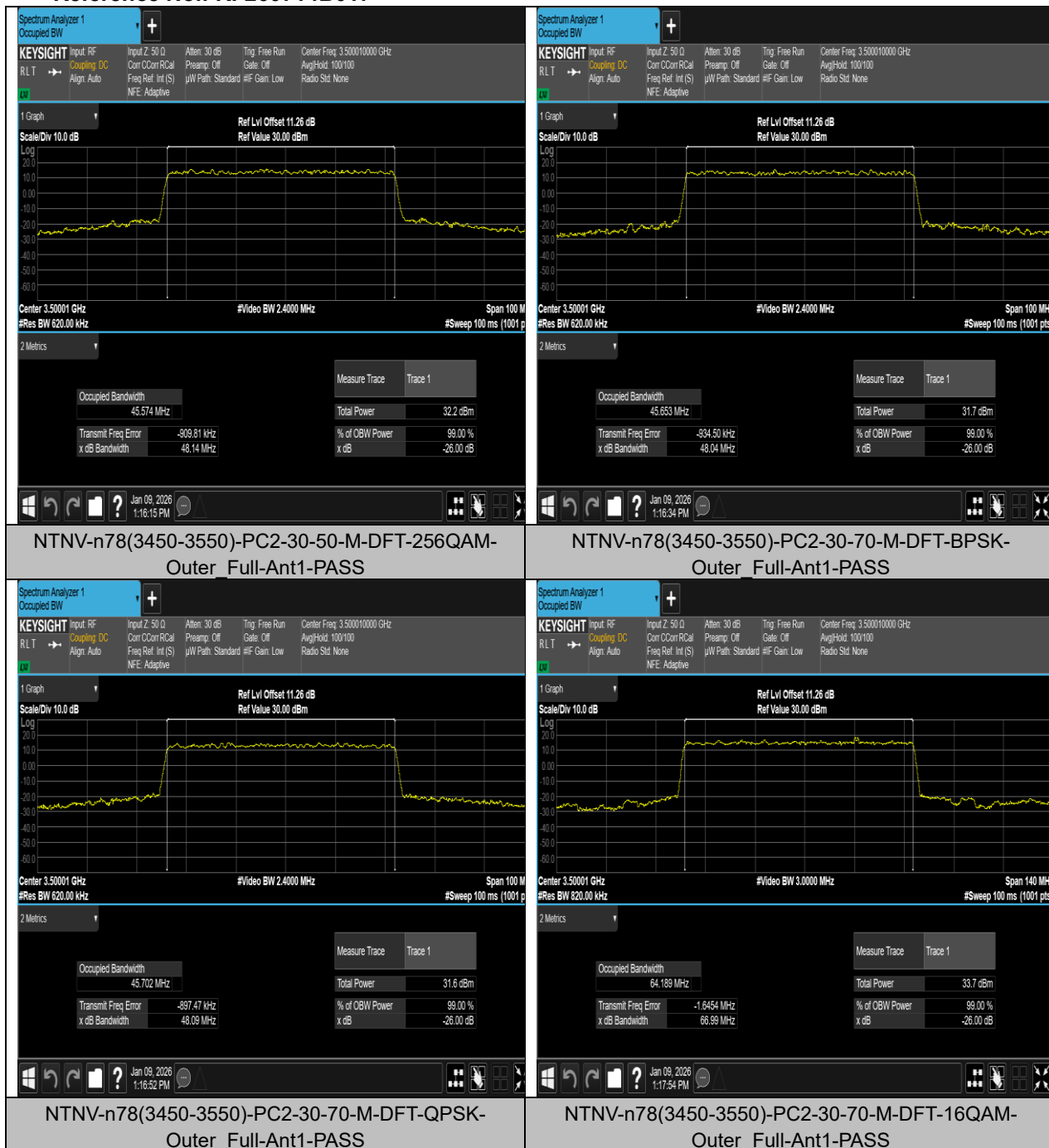
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CO., LTD.

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4th Road, Chiwan Community, Zhaoshang Street,
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Mobile: +86 15118052731
Email:shimin.wang@boomwavelab.com



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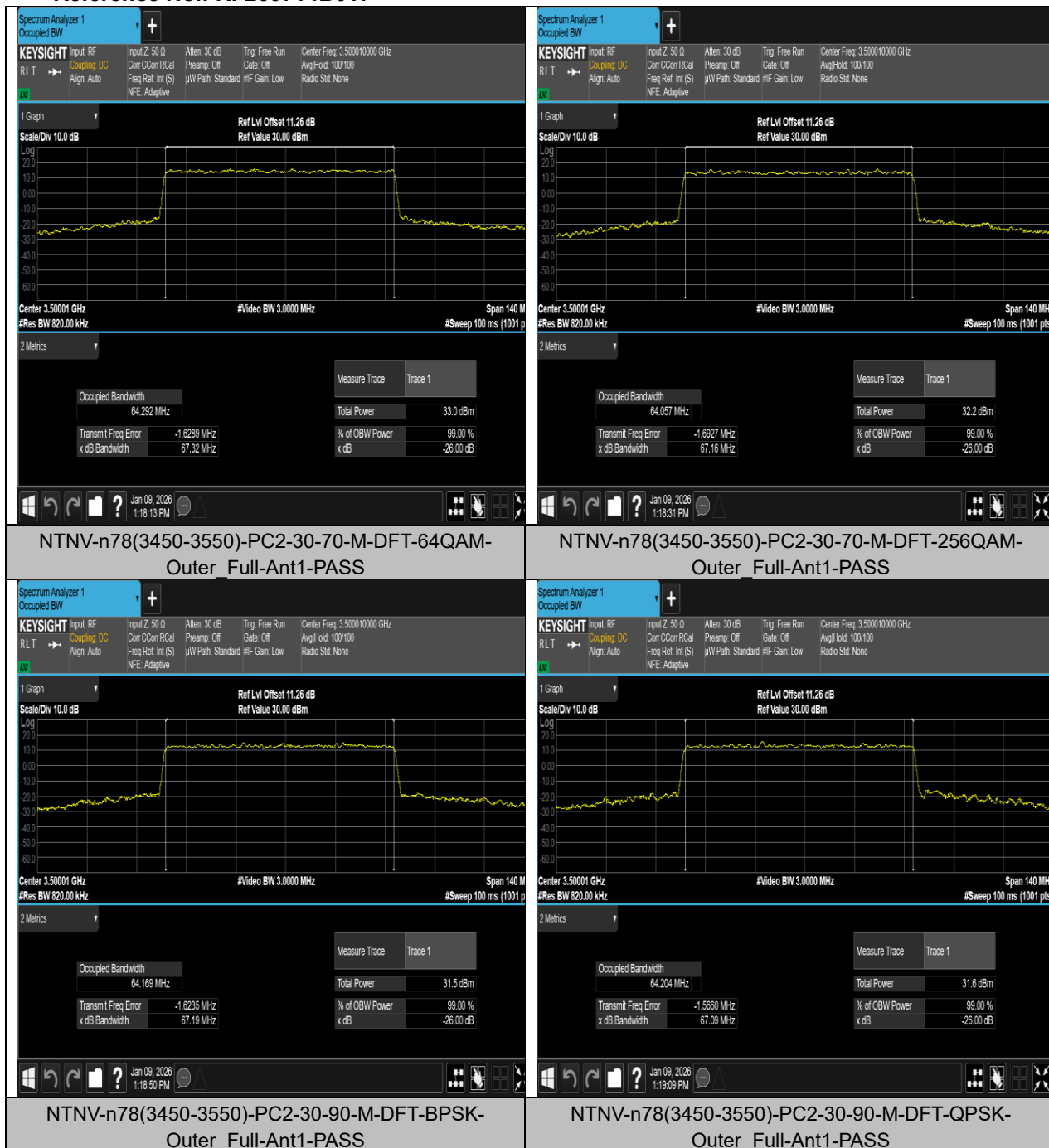
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4th Road, Chiwan Community, Zhaoshang Street,
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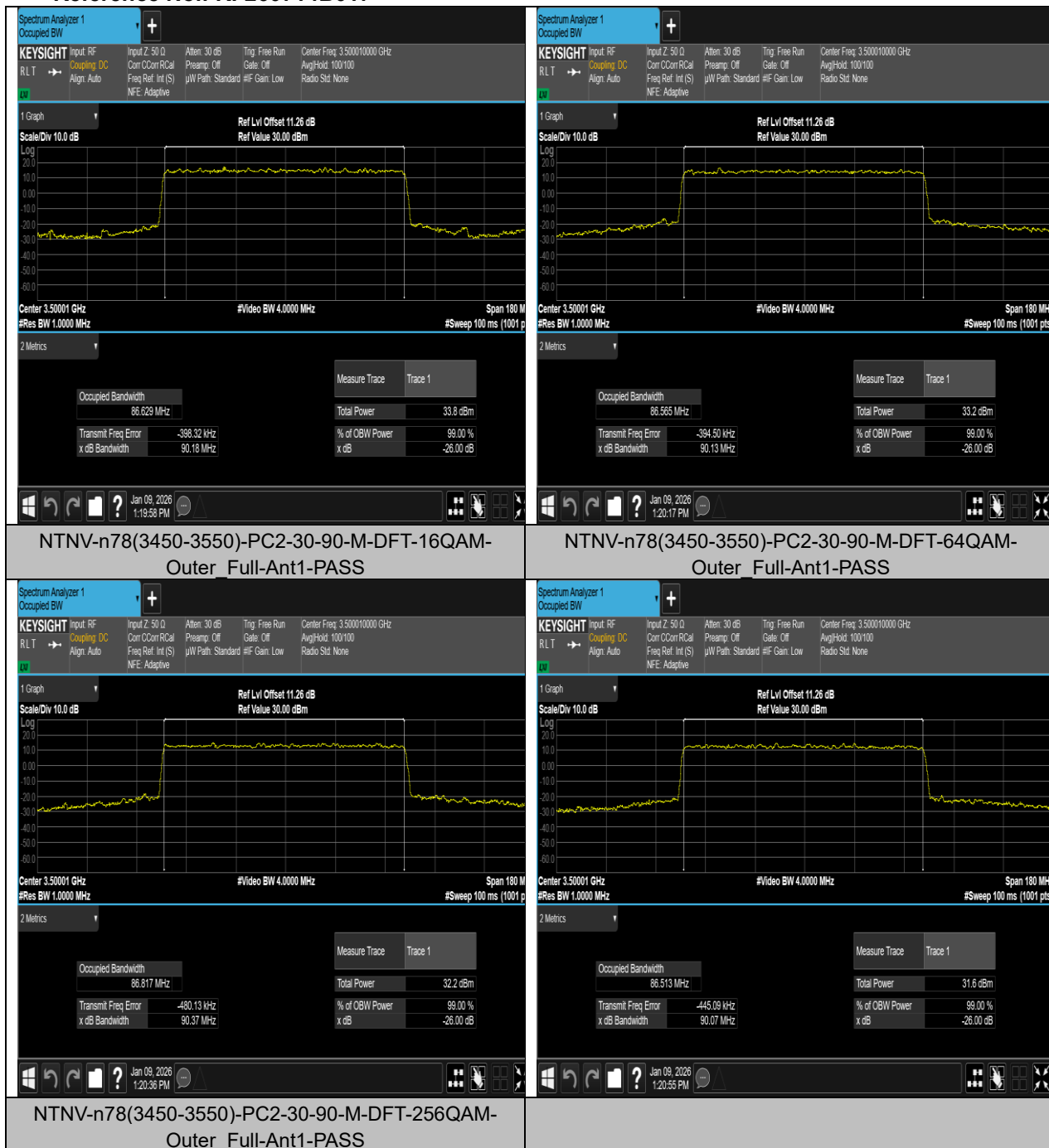
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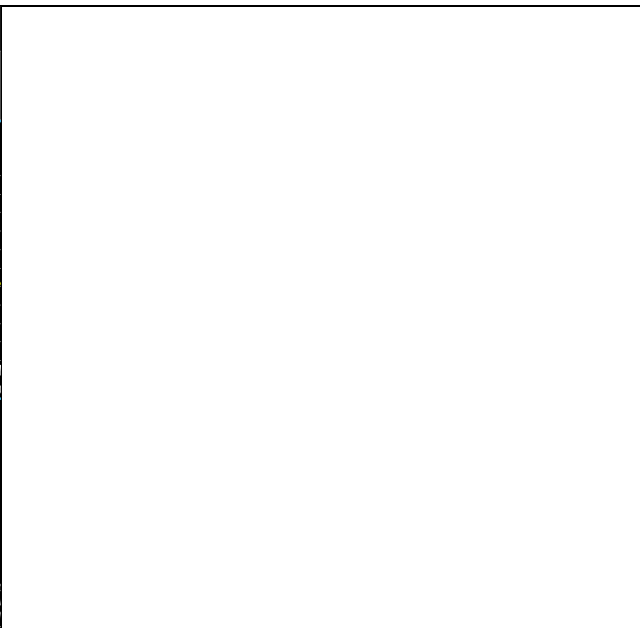
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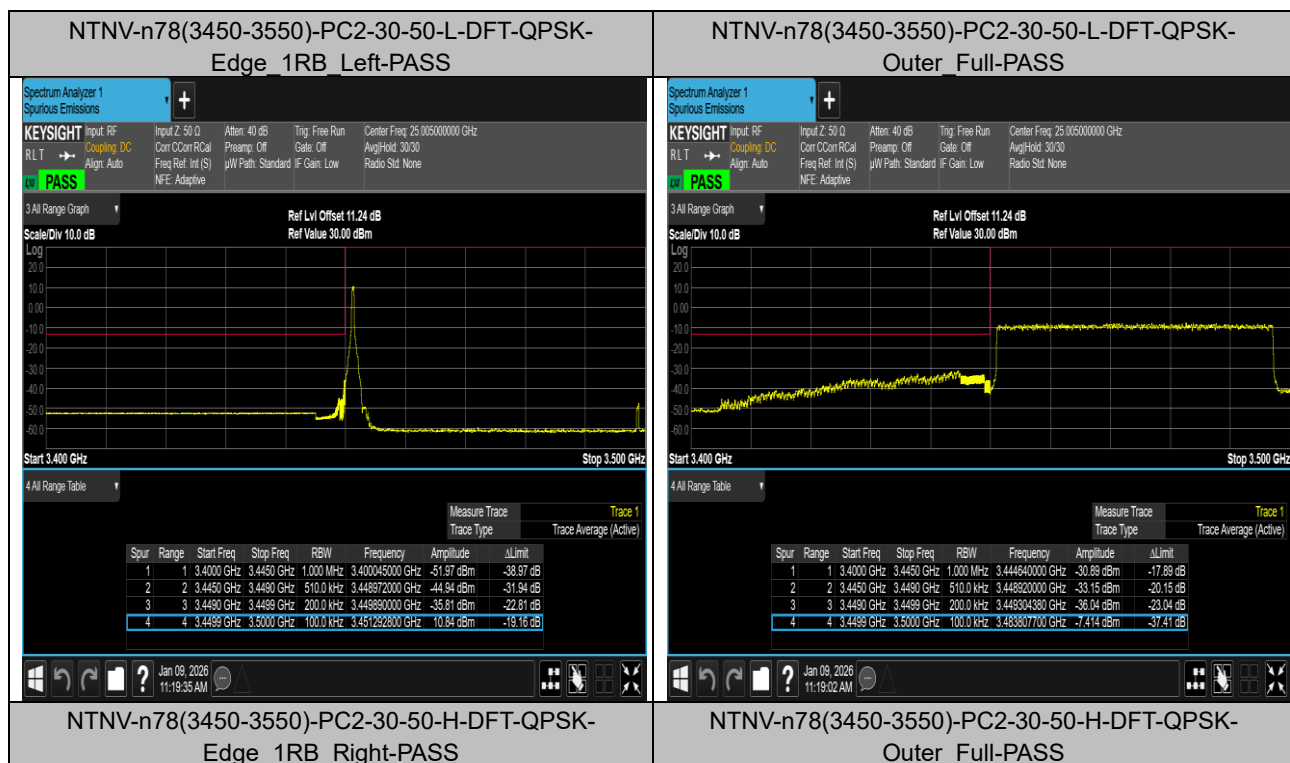


Reference No.: RF260714B017

BAND EDGE FOR SA TEST RESULT-ANT0

Band	SCS (kHz)	Bandwidth (MHz)	Modulation	Channel	RB Config	Result (dBm)	Verdict
n78(3450-3550)	30	50	DFT-QPSK	L	Edge_1RB_Left	-35.81	PASS
n78(3450-3550)	30	50	DFT-QPSK	L	Outer_Full	-30.89	PASS
n78(3450-3550)	30	50	DFT-QPSK	H	Edge_1RB_Right	-35.98	PASS
n78(3450-3550)	30	50	DFT-QPSK	H	Outer_Full	-32.60	PASS
n78(3450-3550)	30	70	DFT-QPSK	L	Edge_1RB_Left	-33.61	PASS
n78(3450-3550)	30	70	DFT-QPSK	L	Outer_Full	-34.96	PASS
n78(3450-3550)	30	70	DFT-QPSK	H	Edge_1RB_Right	-32.93	PASS
n78(3450-3550)	30	70	DFT-QPSK	H	Outer_Full	-33.92	PASS
n78(3450-3550)	30	90	DFT-QPSK	L	Edge_1RB_Left	-31.36	PASS
n78(3450-3550)	30	90	DFT-QPSK	L	Outer_Full	-37.47	PASS
n78(3450-3550)	30	90	DFT-QPSK	H	Edge_1RB_Right	-31.37	PASS
n78(3450-3550)	30	90	DFT-QPSK	H	Outer_Full	-34.81	PASS

TEST GRAPHS-ANT0



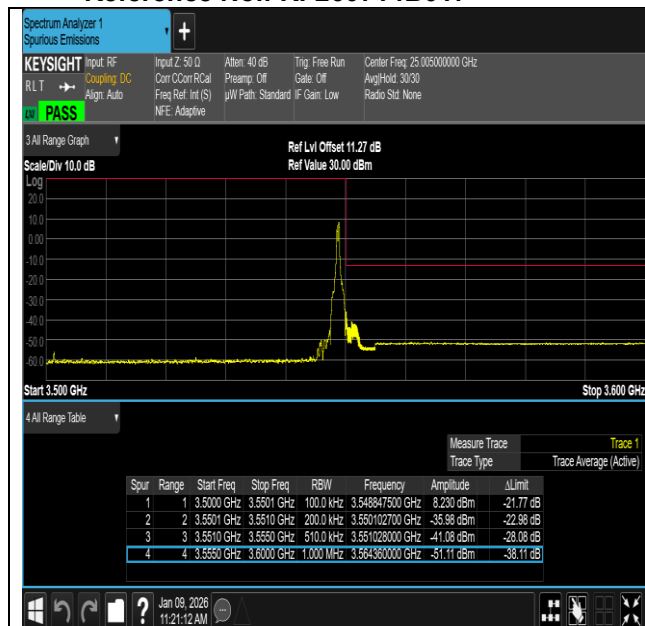
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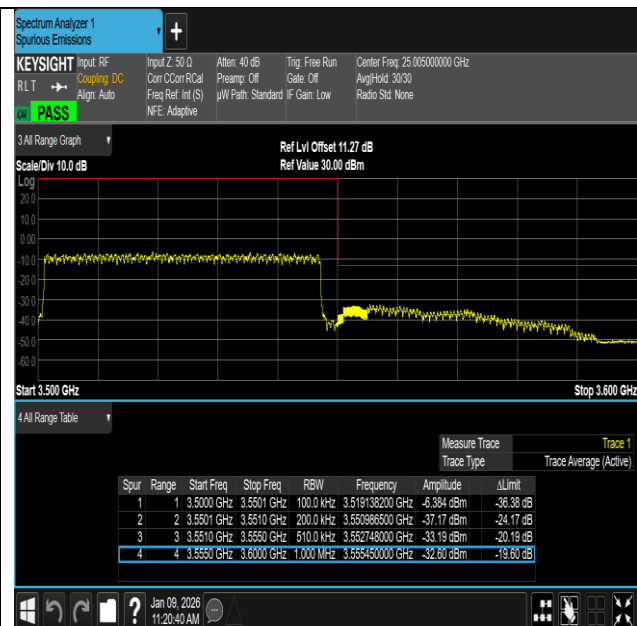
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Email:shimin.wang@boomwavelab.com



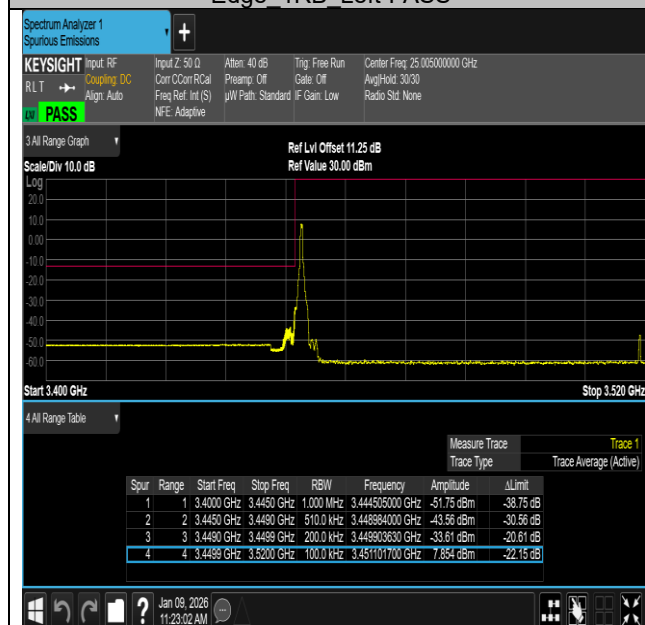
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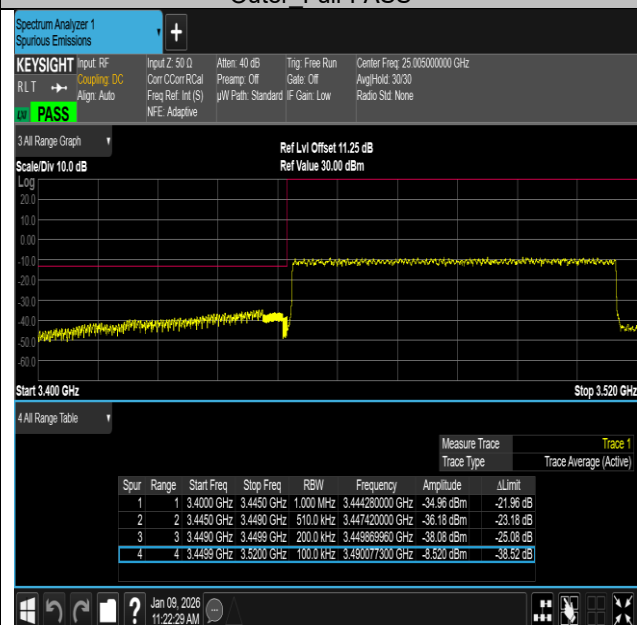
NTNV-n78(3450-3550)-PC2-30-70-L-DFT-QPSK-
Edge 1RB Left-PASS



NTNV-n78(3450-3550)-PC2-30-70-L-DFT-QPSK-
Outer Full-PASS



NTNV-n78(3450-3550)-PC2-30-70-H-DFT-QPSK-
Edge 1RB Right-PASS



NTNV-n78(3450-3550)-PC2-30-70-H-DFT-QPSK-
Outer Full-PASS

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