

Appendix A

CONDUCTED OUTPUT POWER AND E.I.R.P.

CONDUCTED OUTPUT POWER (dBm)

5G SA
N48

n48 (SCS 30 kHz) (Ant7)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		638000	641666	645332
		Frequency (MHz)		3570	3624.99	3679.98
40M	DFT-s-OFDM Pi/2 BPSK	1	1	23.07	23.00	23.24
		1	52	23.15	23.05	23.30
		1	104	23.23	23.17	23.37
		50	0	22.66	22.57	22.82
		50	28	23.11	23.06	23.27
		50	56	22.73	22.67	22.91
		100	0	22.69	22.55	22.79
	DFT-s-OFDM QPSK	1	1	23.29	23.21	23.45
		1	52	23.23	23.14	23.39
		1	104	23.29	23.21	23.41
		50	0	22.29	22.20	22.42
		50	28	23.27	23.13	23.39
		50	56	22.29	22.21	22.47
		100	0	22.23	22.19	22.38
	DFT-s-OFDM 16QAM	1	1	22.31	22.17	22.40
	DFT-s-OFDM 64QAM	1	1	20.83	20.73	20.95
	DFT-s-OFDM 256QAM	1	1	18.80	18.75	18.95
40M	CP-OFDM QPSK	1	1	21.91	21.66	22.08
BW		Channel		637334	641666	646000

	MCS Index	Frequency (MHz)		3560.01	3624.99	3690
20M	DFT-s-OFDM QPSK	1	1	23.23	23.19	23.42
BW	MCS Index	Channel		637000	641666	646332
		Frequency (MHz)		3555	3624.99	3694.98
10M	DFT-s-OFDM QPSK	1	1	23.25	23.18	23.36

EIRP

N48

n48 40M DFT-s-OFDM Pi/2 Pi/2 BPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
638000	3570	23.23	0.3	23.53	225.42	23
641666	3624.99	23.17	0.3	23.47	222.33	23
645332	3679.98	23.37	0.3	23.67	232.81	23

n48 40M DFT-s-OFDM QPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
638000	3570	23.29	-0.5	22.79	190.11	23
641666	3624.99	23.21	-0.5	22.71	186.64	23
645332	3679.98	23.45	-0.5	22.95	197.24	23

n48 40M DFT-s-OFDM 16QAM For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
638000	3570	22.31	-0.5	21.81	151.71	23
641666	3624.99	22.17	-0.5	21.67	146.89	23
645332	3679.98	22.4	-0.5	21.9	154.88	23

n48 40M DFT-s-OFDM 64QAM For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
638000	3570	20.83	-0.5	20.33	107.89	23
641666	3624.99	20.73	-0.5	20.23	105.44	23
645332	3679.98	20.95	-0.5	20.45	110.92	23

n48 40M DFT-s-OFDM 256QAM For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
638000	3570	18.8	-0.5	18.3	67.61	23
641666	3624.99	18.75	-0.5	18.25	66.83	23
645332	3679.98	18.95	-0.5	18.45	69.98	23

n48 20M DFT-s-OFDM QPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
637334	3560.01	23.23	-0.5	22.73	187.5	23
641666	3624.99	23.19	-0.5	22.69	185.78	23
646000	3690	23.42	-0.5	22.92	195.88	23

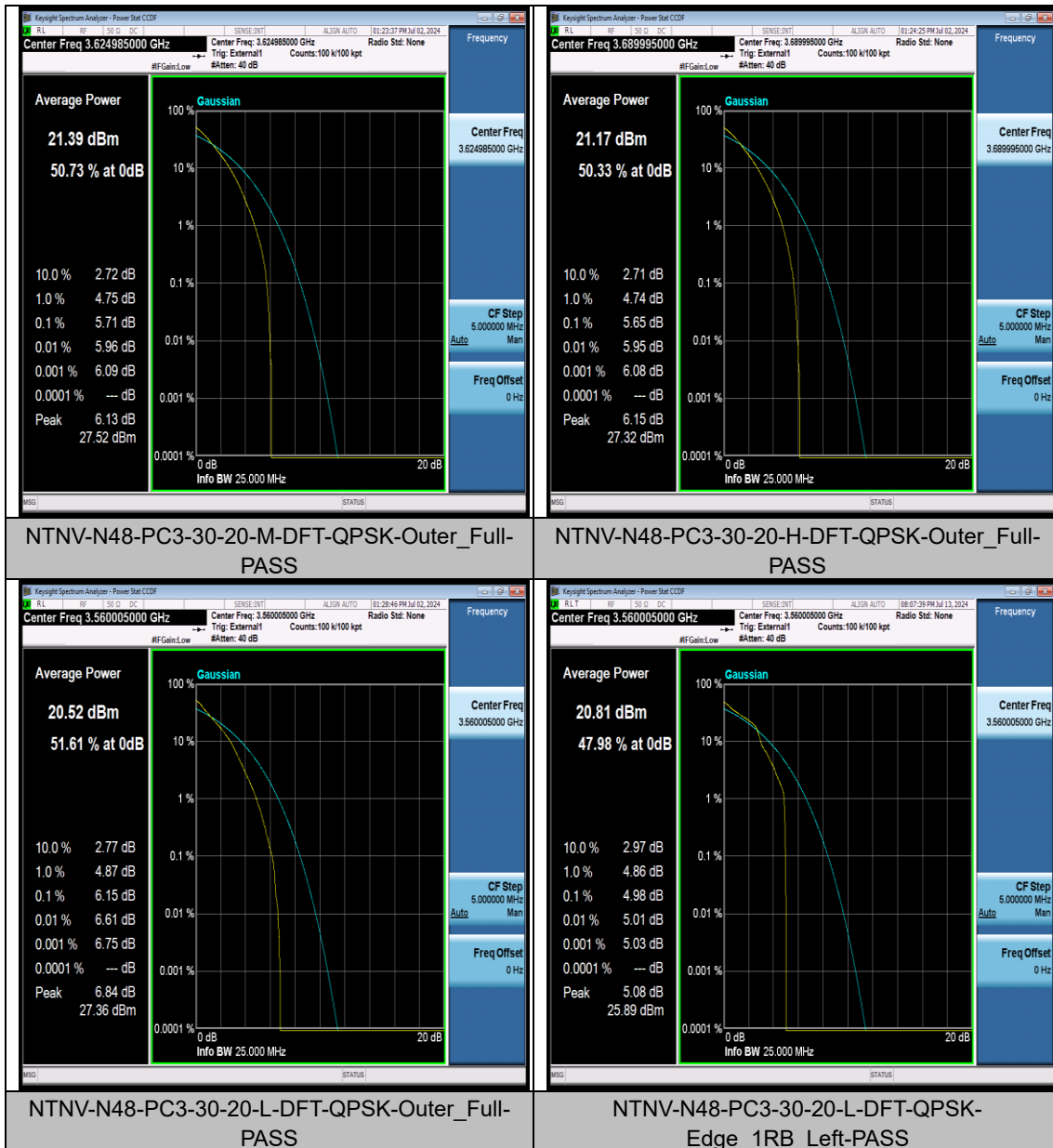
n48 10M DFT-s-OFDM QPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
637000	3555	23.25	-0.5	22.75	188.36	23
641666	3624.99	23.18	-0.5	22.68	185.35	23
646332	3694.98	23.36	-0.5	22.86	193.2	23

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).

PEAK-TO-AVERAGE RATIO(CCDF) TEST RESULT

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N48	30	20	DFT-QPSK	M	Outer Full	5.71	≤13	PASS
N48	30	20	DFT-QPSK	H	Outer Full	5.65	≤13	PASS
N48	30	20	DFT-QPSK	L	Outer Full	6.15	≤13	PASS
N48	30	20	DFT-QPSK	L	Edge 1RB Left	4.98	≤13	PASS
N48	30	20	DFT-QPSK	M	Edge 1RB Left	4.33	≤13	PASS
N48	30	20	DFT-QPSK	H	Edge 1RB Left	4.47	≤13	PASS

TEST GRAPHS

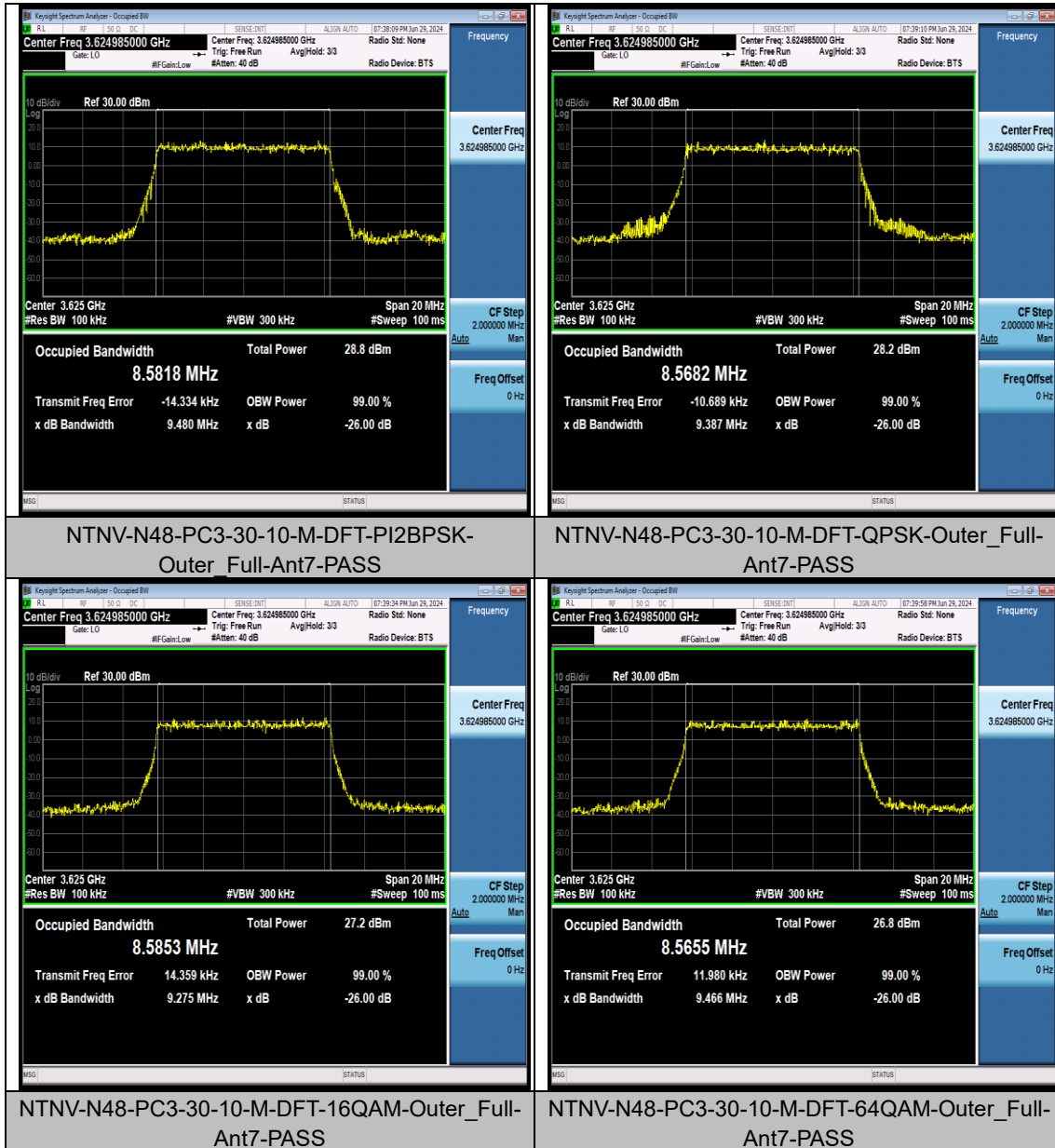


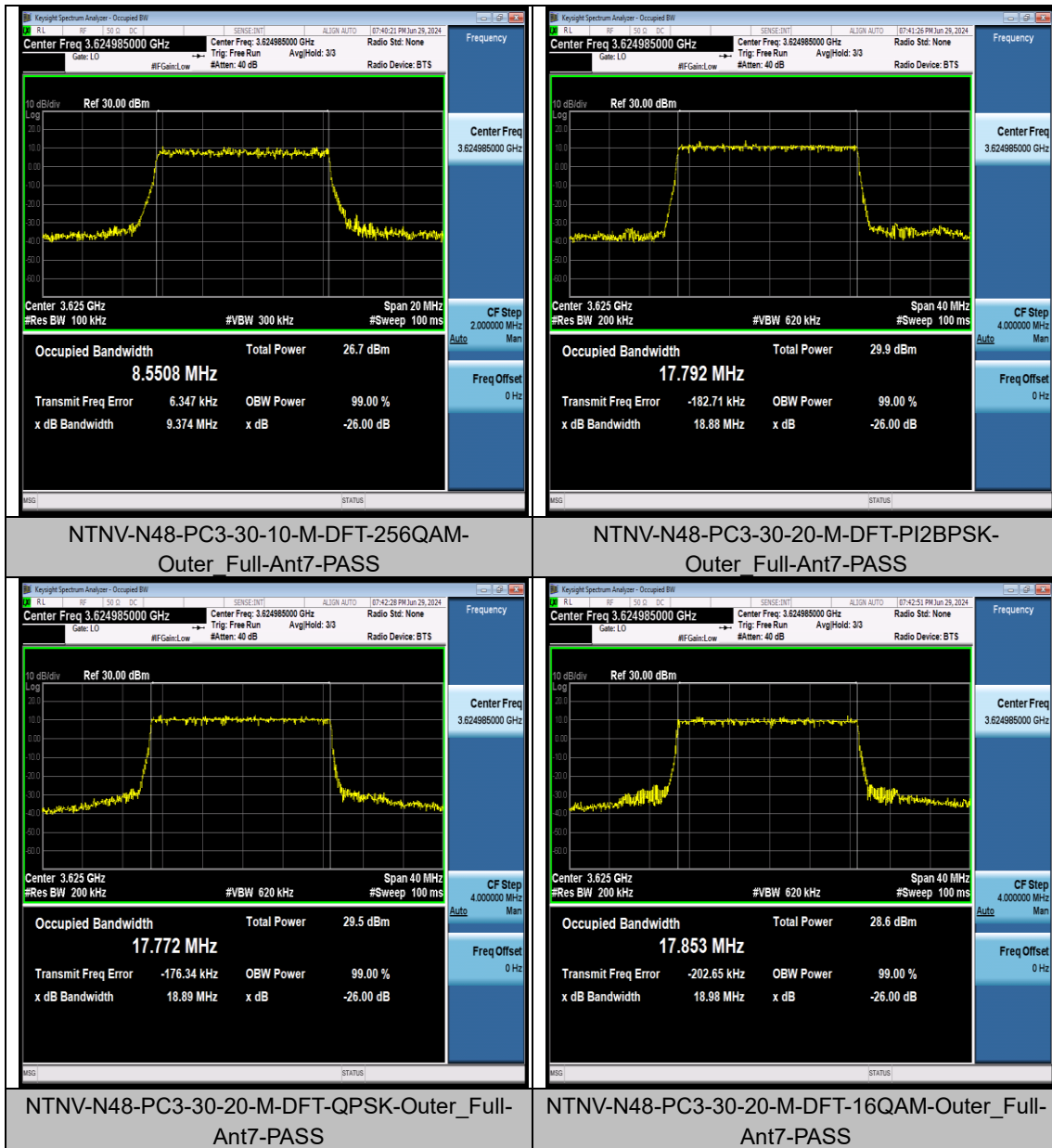


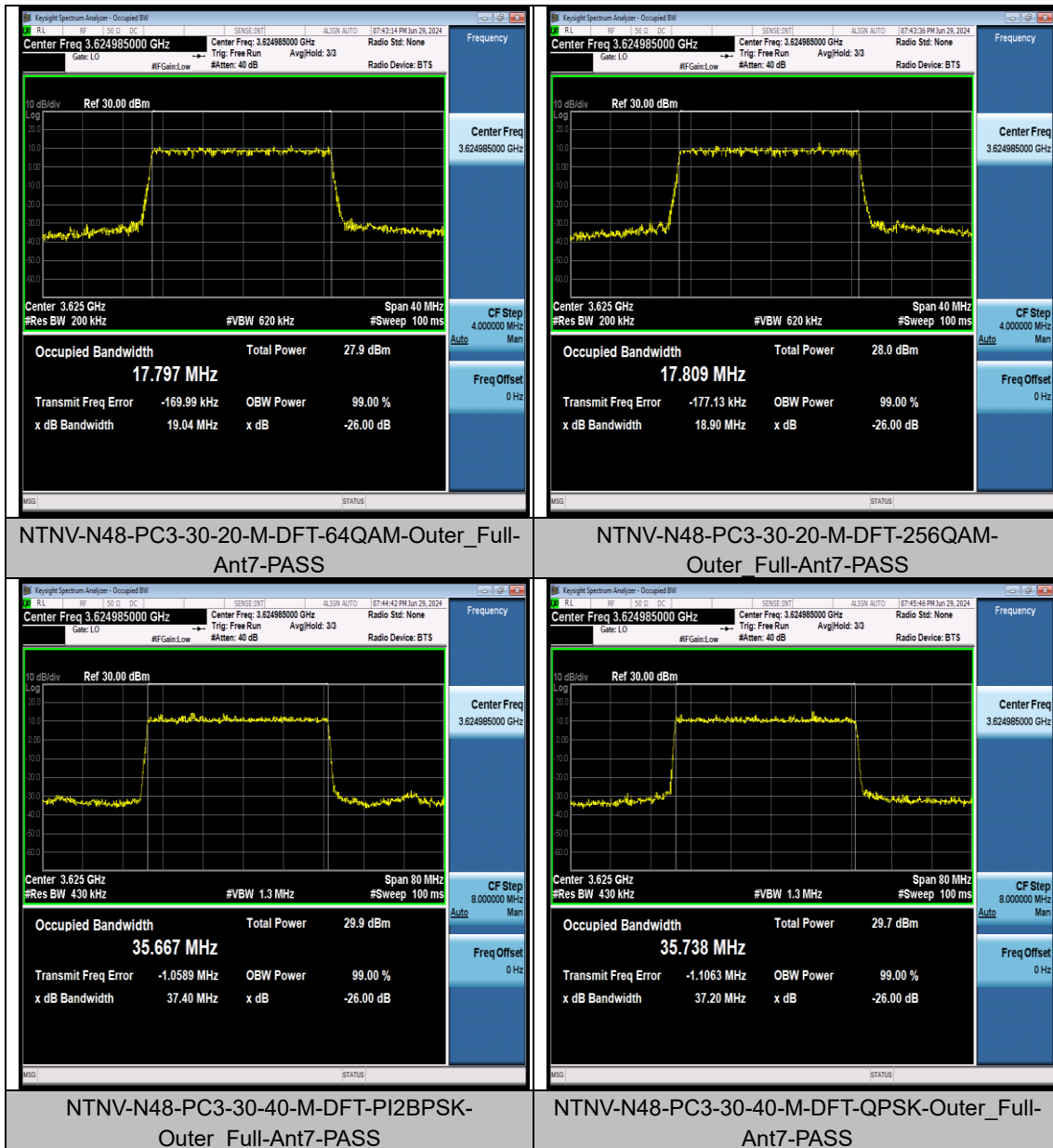
26DB BANDWIDTH AND OCCUPIED BANDWIDTH FOR SA TEST RESULT

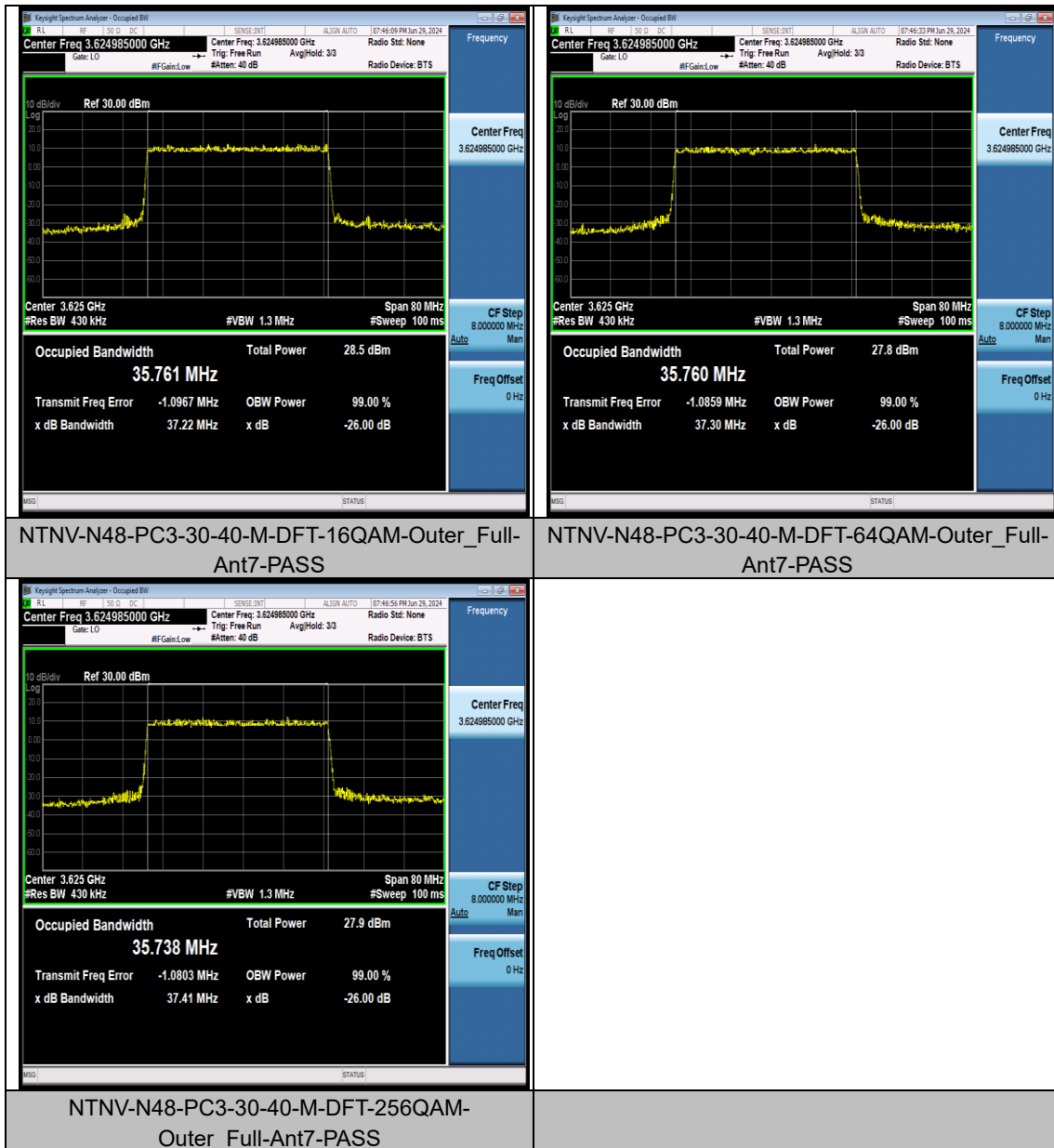
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N48	30	10	DFT-PI2BPSK	M	Outer_Full	8.5818	9.480	PASS
N48	30	10	DFT-QPSK	M	Outer_Full	8.5682	9.387	PASS
N48	30	10	DFT-16QAM	M	Outer_Full	8.5853	9.275	PASS
N48	30	10	DFT-64QAM	M	Outer_Full	8.5655	9.466	PASS
N48	30	10	DFT-256QAM	M	Outer_Full	8.5508	9.374	PASS
N48	30	20	DFT-PI2BPSK	M	Outer_Full	17.792	18.88	PASS
N48	30	20	DFT-QPSK	M	Outer_Full	17.772	18.89	PASS
N48	30	20	DFT-16QAM	M	Outer_Full	17.853	18.98	PASS
N48	30	20	DFT-64QAM	M	Outer_Full	17.797	19.04	PASS
N48	30	20	DFT-256QAM	M	Outer_Full	17.809	18.90	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	35.667	37.40	PASS
N48	30	40	DFT-QPSK	M	Outer_Full	35.738	37.20	PASS
N48	30	40	DFT-16QAM	M	Outer_Full	35.761	37.22	PASS
N48	30	40	DFT-64QAM	M	Outer_Full	35.760	37.30	PASS
N48	30	40	DFT-256QAM	M	Outer_Full	35.738	37.41	PASS

TEST GRAPHS







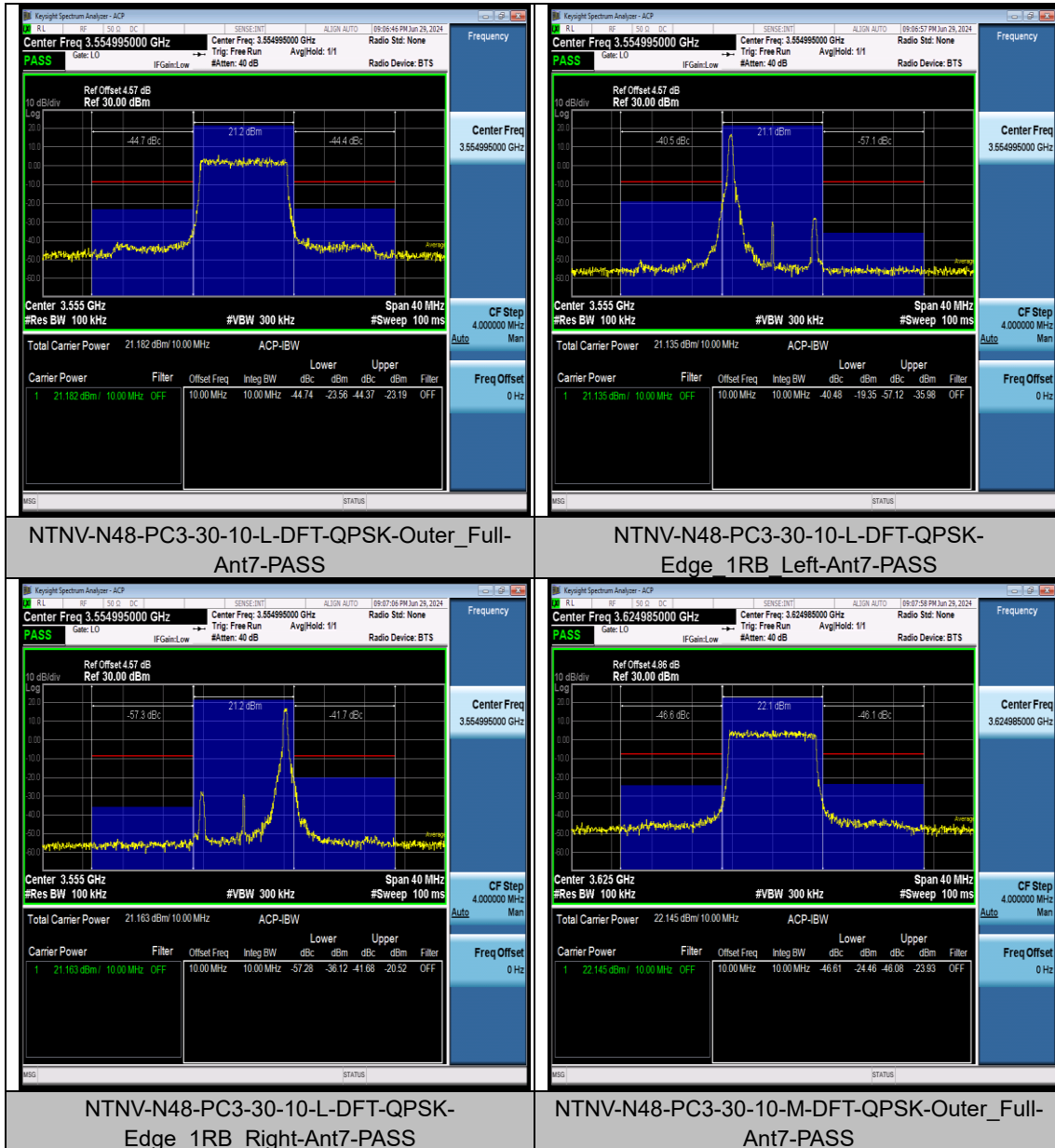


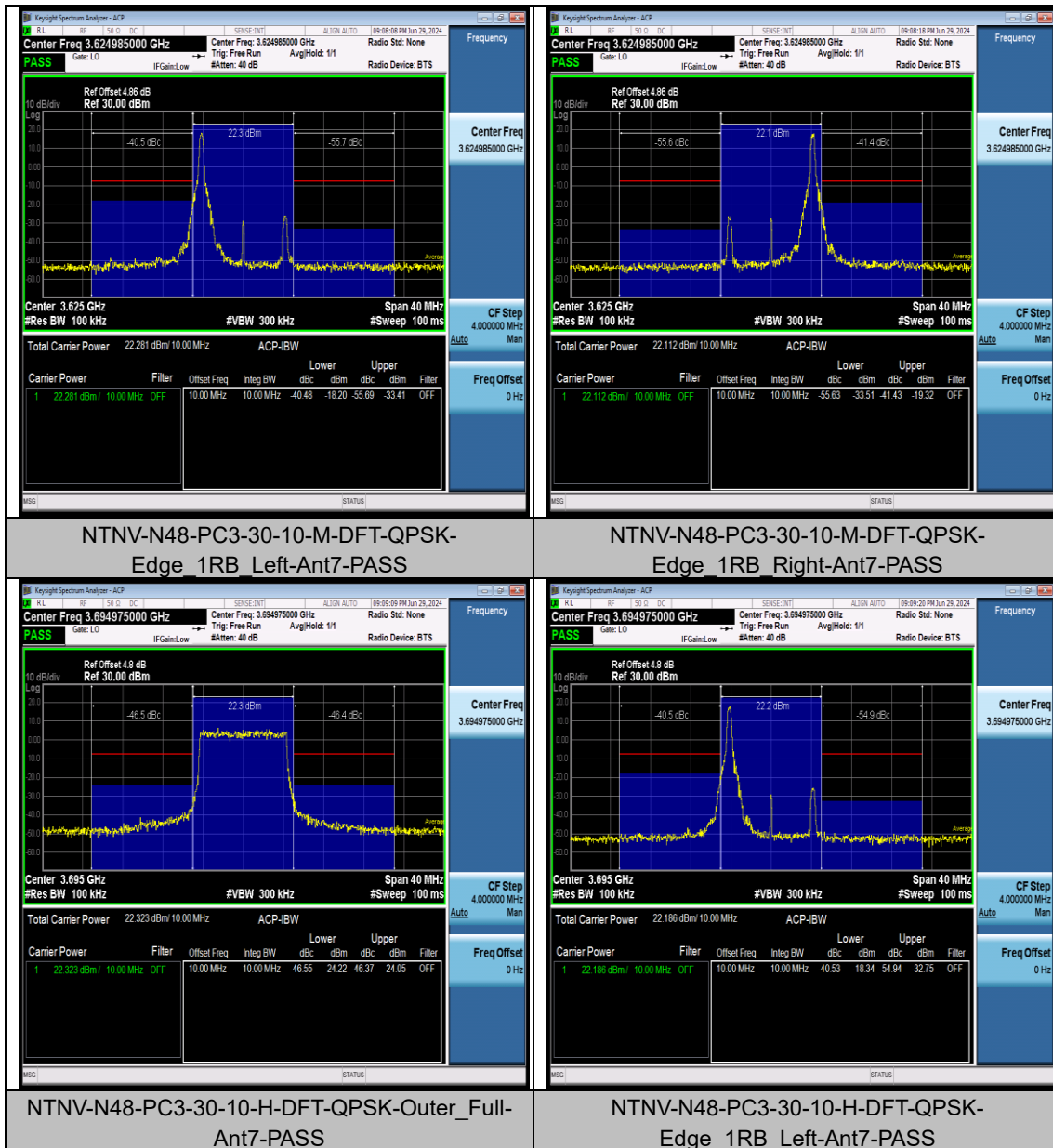
ACLR FOR SA TEST RESULT

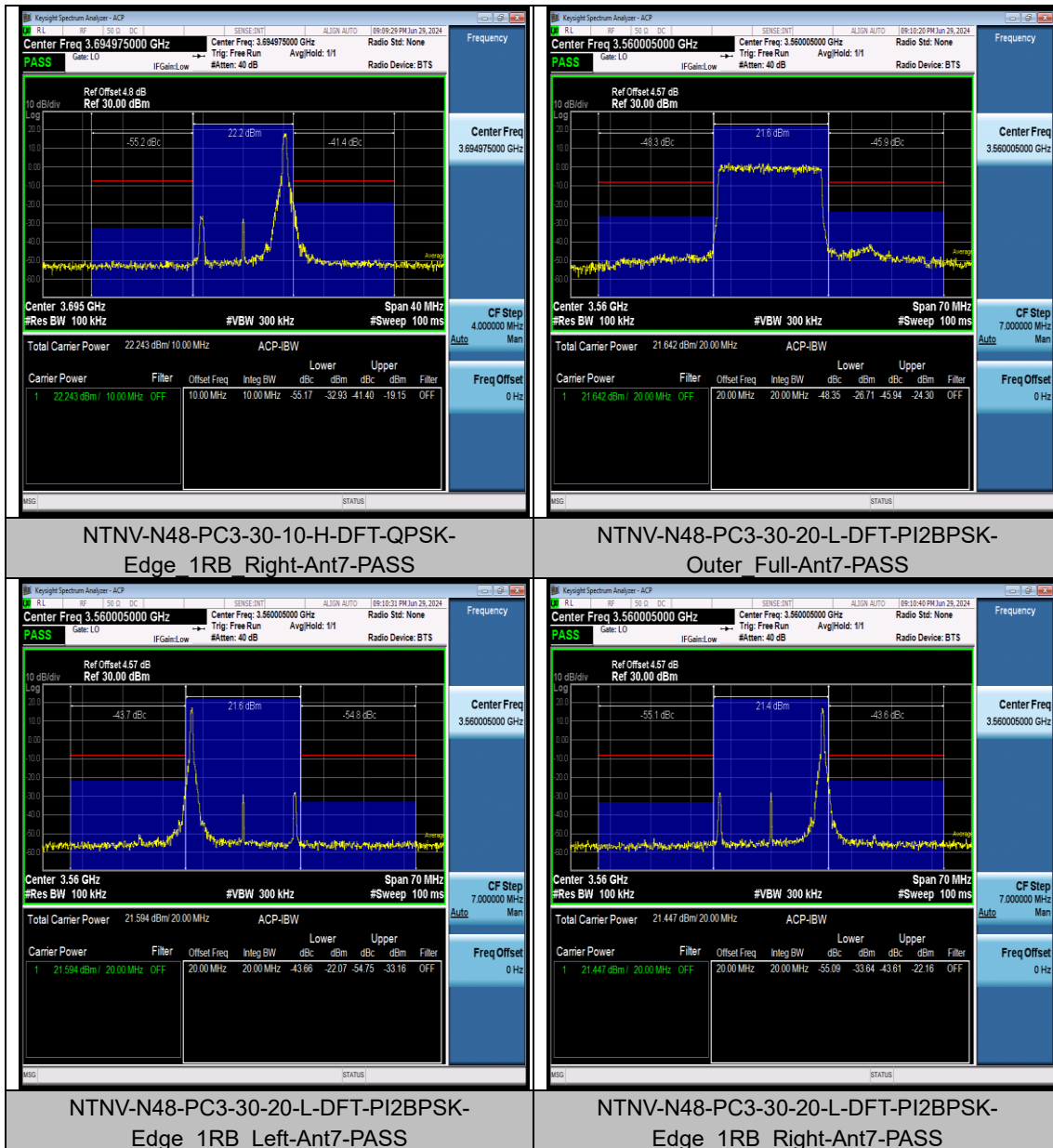
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Verdict
N48	30	10	DFT-QPSK	L	Outer_Full	≤-30	PASS
N48	30	10	DFT-QPSK	L	Outer_Full	≤-30	PASS
N48	30	10	DFT-QPSK	L	Edge_1RB_Left	≤-30	PASS
N48	30	10	DFT-QPSK	L	Edge_1RB_Left	≤-30	PASS
N48	30	10	DFT-QPSK	L	Edge_1RB_Right	≤-30	PASS
N48	30	10	DFT-QPSK	L	Edge_1RB_Right	≤-30	PASS
N48	30	10	DFT-QPSK	M	Outer_Full	≤-30	PASS
N48	30	10	DFT-QPSK	M	Outer_Full	≤-30	PASS
N48	30	10	DFT-QPSK	M	Edge_1RB_Left	≤-30	PASS
N48	30	10	DFT-QPSK	M	Edge_1RB_Left	≤-30	PASS
N48	30	10	DFT-QPSK	M	Edge_1RB_Right	≤-30	PASS
N48	30	10	DFT-QPSK	M	Edge_1RB_Right	≤-30	PASS
N48	30	10	DFT-QPSK	H	Outer_Full	≤-30	PASS
N48	30	10	DFT-QPSK	H	Outer_Full	≤-30	PASS
N48	30	10	DFT-QPSK	H	Edge_1RB_Left	≤-30	PASS
N48	30	10	DFT-QPSK	H	Edge_1RB_Left	≤-30	PASS
N48	30	10	DFT-QPSK	H	Edge_1RB_Right	≤-30	PASS
N48	30	10	DFT-QPSK	H	Edge_1RB_Right	≤-30	PASS
N48	30	20	DFT-PI2BPSK	L	Outer_Full	≤-30	PASS
N48	30	20	DFT-PI2BPSK	L	Outer_Full	≤-30	PASS
N48	30	20	DFT-PI2BPSK	L	Edge_1RB_Left	≤-30	PASS
N48	30	20	DFT-PI2BPSK	L	Edge_1RB_Left	≤-30	PASS
N48	30	20	DFT-PI2BPSK	L	Edge_1RB_Right	≤-30	PASS
N48	30	20	DFT-PI2BPSK	L	Edge_1RB_Right	≤-30	PASS
N48	30	20	DFT-QPSK	L	Outer_Full	≤-30	PASS
N48	30	20	DFT-QPSK	L	Outer_Full	≤-30	PASS
N48	30	20	DFT-QPSK	L	Edge_1RB_Left	≤-30	PASS
N48	30	20	DFT-QPSK	L	Edge_1RB_Left	≤-30	PASS
N48	30	20	DFT-QPSK	L	Edge_1RB_Right	≤-30	PASS
N48	30	20	DFT-QPSK	L	Edge_1RB_Right	≤-30	PASS
N48	30	20	DFT-QPSK	M	Outer_Full	≤-30	PASS
N48	30	20	DFT-QPSK	M	Outer_Full	≤-30	PASS
N48	30	20	DFT-QPSK	M	Edge_1RB_Left	≤-30	PASS
N48	30	20	DFT-QPSK	M	Edge_1RB_Left	≤-30	PASS
N48	30	20	DFT-QPSK	M	Edge_1RB_Right	≤-30	PASS
N48	30	20	DFT-QPSK	M	Edge_1RB_Right	≤-30	PASS
N48	30	20	DFT-QPSK	H	Outer_Full	≤-30	PASS
N48	30	20	DFT-QPSK	H	Outer_Full	≤-30	PASS
N48	30	20	DFT-QPSK	H	Edge_1RB_Left	≤-30	PASS
N48	30	20	DFT-QPSK	H	Edge_1RB_Left	≤-30	PASS
N48	30	20	DFT-QPSK	H	Edge_1RB_Right	≤-30	PASS
N48	30	20	DFT-QPSK	H	Edge_1RB_Right	≤-30	PASS
N48	30	40	DFT-QPSK	L	Outer_Full	≤-30	PASS
N48	30	40	DFT-QPSK	L	Outer_Full	≤-30	PASS
N48	30	40	DFT-QPSK	L	Edge_1RB_Left	≤-30	PASS
N48	30	40	DFT-QPSK	L	Edge_1RB_Left	≤-30	PASS
N48	30	40	DFT-QPSK	L	Edge_1RB_Right	≤-30	PASS

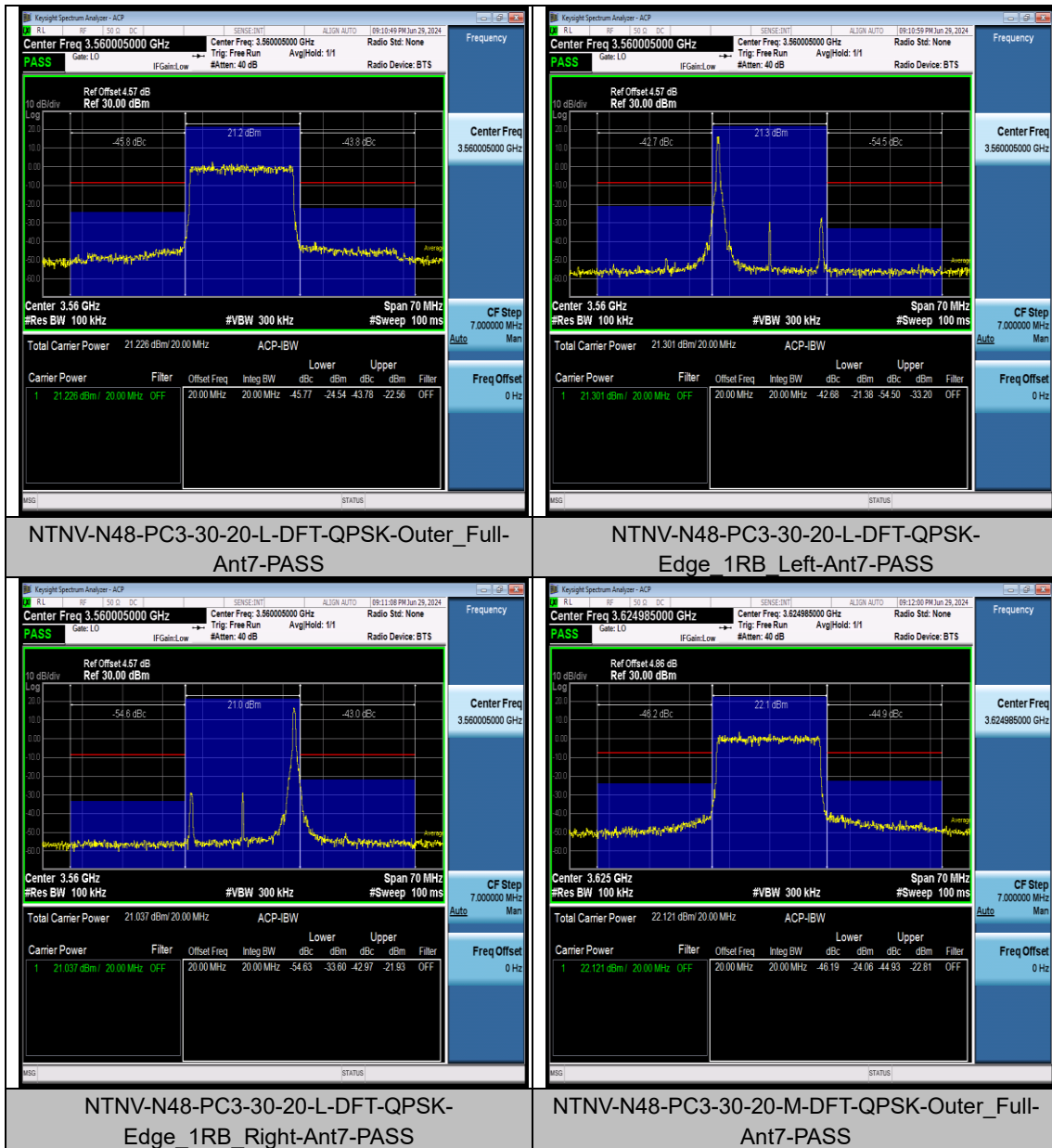
N48	30	40	DFT-QPSK	L	Edge_1RB_Right	≤-30	PASS
N48	30	40	DFT-QPSK	M	Outer_Full	≤-30	PASS
N48	30	40	DFT-QPSK	M	Outer_Full	≤-30	PASS
N48	30	40	DFT-QPSK	M	Edge_1RB_Left	≤-30	PASS
N48	30	40	DFT-QPSK	M	Edge_1RB_Left	≤-30	PASS
N48	30	40	DFT-QPSK	M	Edge_1RB_Right	≤-30	PASS
N48	30	40	DFT-QPSK	M	Edge_1RB_Right	≤-30	PASS
N48	30	40	DFT-QPSK	H	Outer_Full	≤-30	PASS
N48	30	40	DFT-QPSK	H	Outer_Full	≤-30	PASS
N48	30	40	DFT-QPSK	H	Edge_1RB_Left	≤-30	PASS
N48	30	40	DFT-QPSK	H	Edge_1RB_Left	≤-30	PASS
N48	30	40	DFT-QPSK	H	Edge_1RB_Right	≤-30	PASS
N48	30	40	DFT-QPSK	H	Edge_1RB_Right	≤-30	PASS

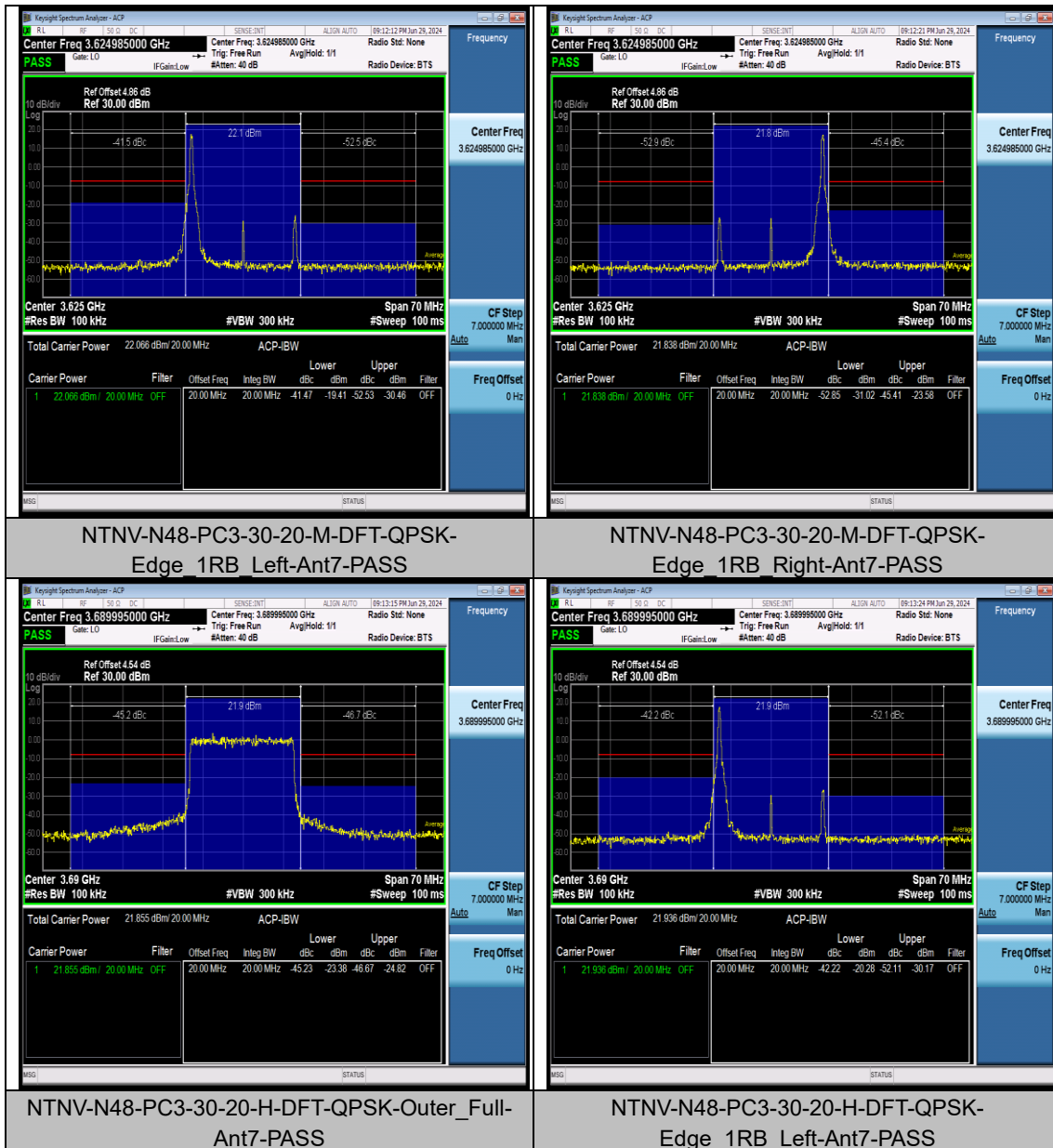
TEST GRAPHS

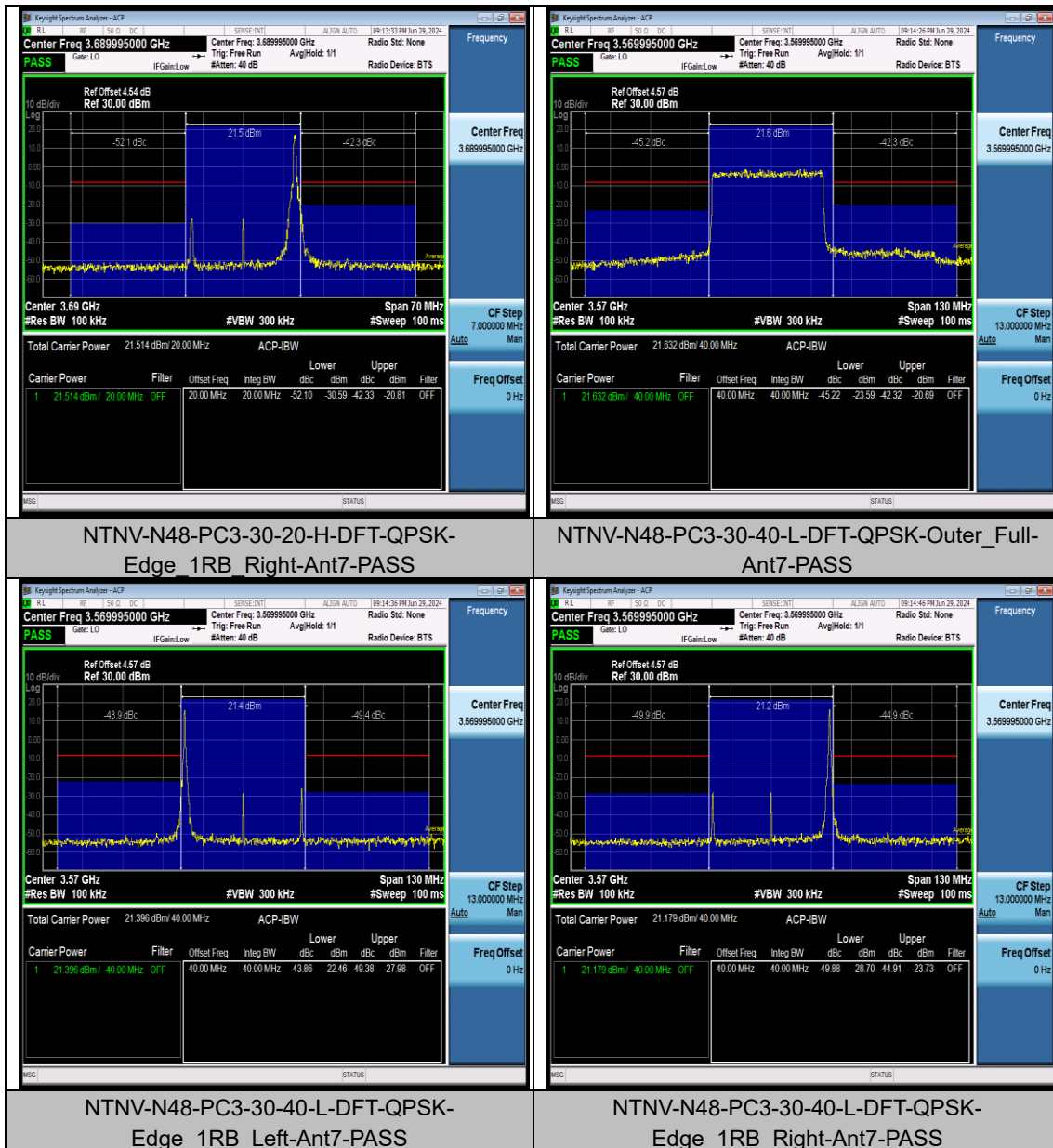


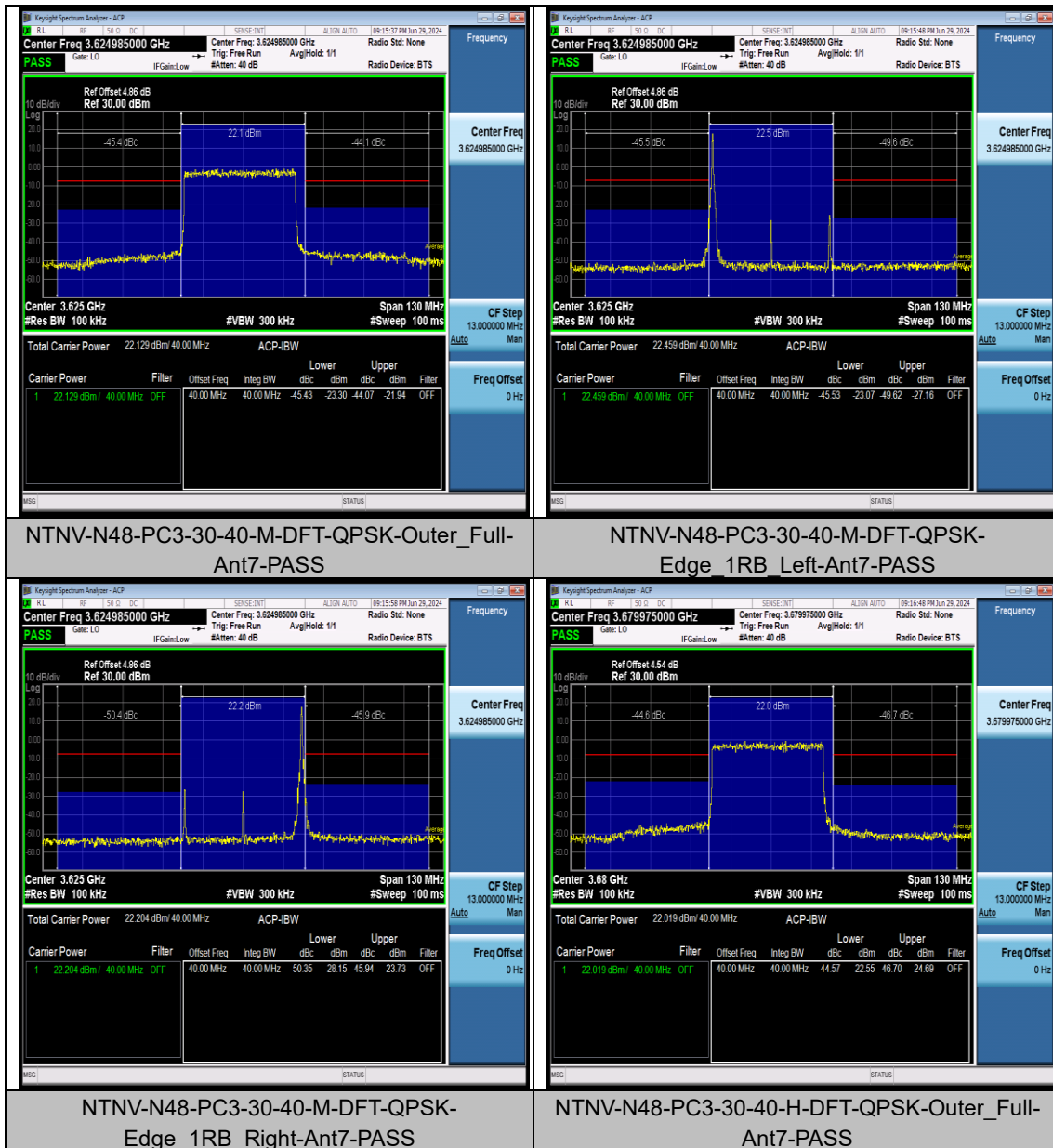


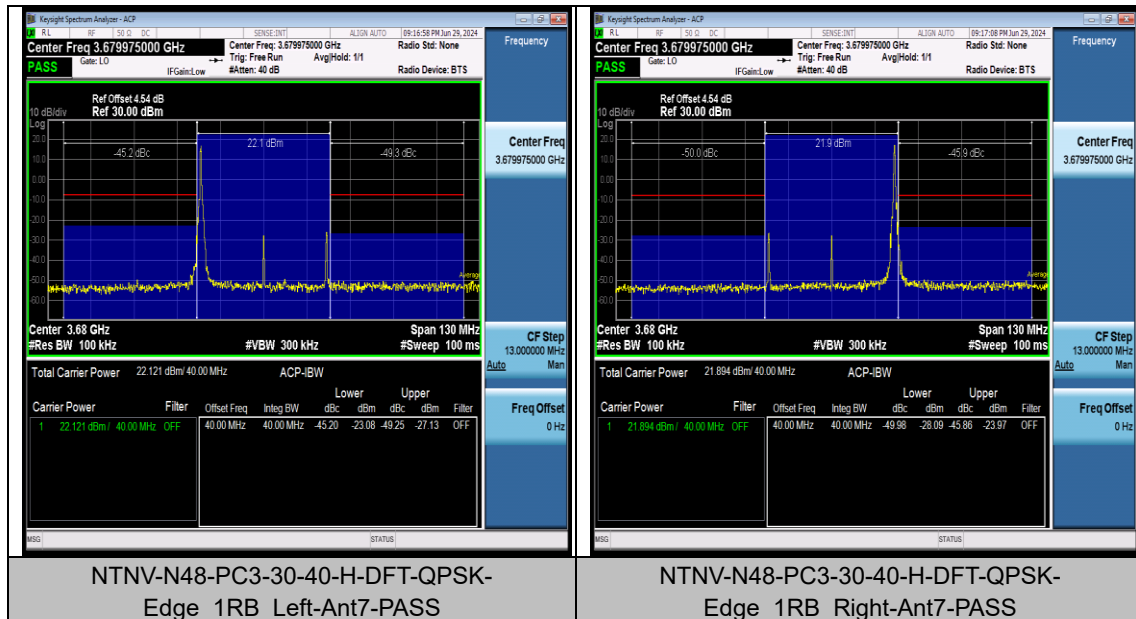












BAND EDGE FOR SA TEST RESULT

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Verdict
N48	30	10	DFT-QPSK	L	Outer_Full	-45.95	PASS
N48	30	10	DFT-QPSK	L	Edge_1RB_Left	-53.50	PASS
N48	30	10	DFT-QPSK	L	Edge_1RB_Right	-53.50	PASS
N48	30	10	DFT-QPSK	M	Outer_Full	-53.37	PASS
N48	30	10	DFT-QPSK	M	Edge_1RB_Left	-53.27	PASS
N48	30	10	DFT-QPSK	M	Edge_1RB_Right	-53.41	PASS
N48	30	10	DFT-QPSK	H	Outer_Full	-46.55	PASS
N48	30	10	DFT-QPSK	H	Edge_1RB_Left	-53.47	PASS
N48	30	10	DFT-QPSK	H	Edge_1RB_Right	-52.50	PASS
N48	30	20	DFT-QPSK	L	Outer_Full	-43.74	PASS
N48	30	20	DFT-QPSK	L	Edge_1RB_Left	-53.85	PASS
N48	30	20	DFT-QPSK	L	Edge_1RB_Right	-53.78	PASS
N48	30	20	DFT-QPSK	M	Outer_Full	-53.47	PASS
N48	30	20	DFT-QPSK	M	Edge_1RB_Left	-53.47	PASS
N48	30	20	DFT-QPSK	M	Edge_1RB_Right	-53.40	PASS
N48	30	20	DFT-QPSK	H	Outer_Full	-44.70	PASS
N48	30	20	DFT-QPSK	H	Edge_1RB_Left	-53.73	PASS
N48	30	20	DFT-QPSK	H	Edge_1RB_Right	-53.08	PASS
N48	30	40	DFT-QPSK	L	Outer_Full	-43.67	PASS
N48	30	40	DFT-QPSK	L	Edge_1RB_Left	-53.01	PASS
N48	30	40	DFT-QPSK	L	Edge_1RB_Right	-53.77	PASS
N48	30	40	DFT-QPSK	M	Outer_Full	-49.71	PASS
N48	30	40	DFT-QPSK	M	Edge_1RB_Left	-53.55	PASS
N48	30	40	DFT-QPSK	M	Edge_1RB_Right	-53.50	PASS
N48	30	40	DFT-QPSK	H	Outer_Full	-46.04	PASS
N48	30	40	DFT-QPSK	H	Edge_1RB_Left	-52.91	PASS
N48	30	40	DFT-QPSK	H	Edge_1RB_Right	-52.78	PASS

TEST GRAPHS

