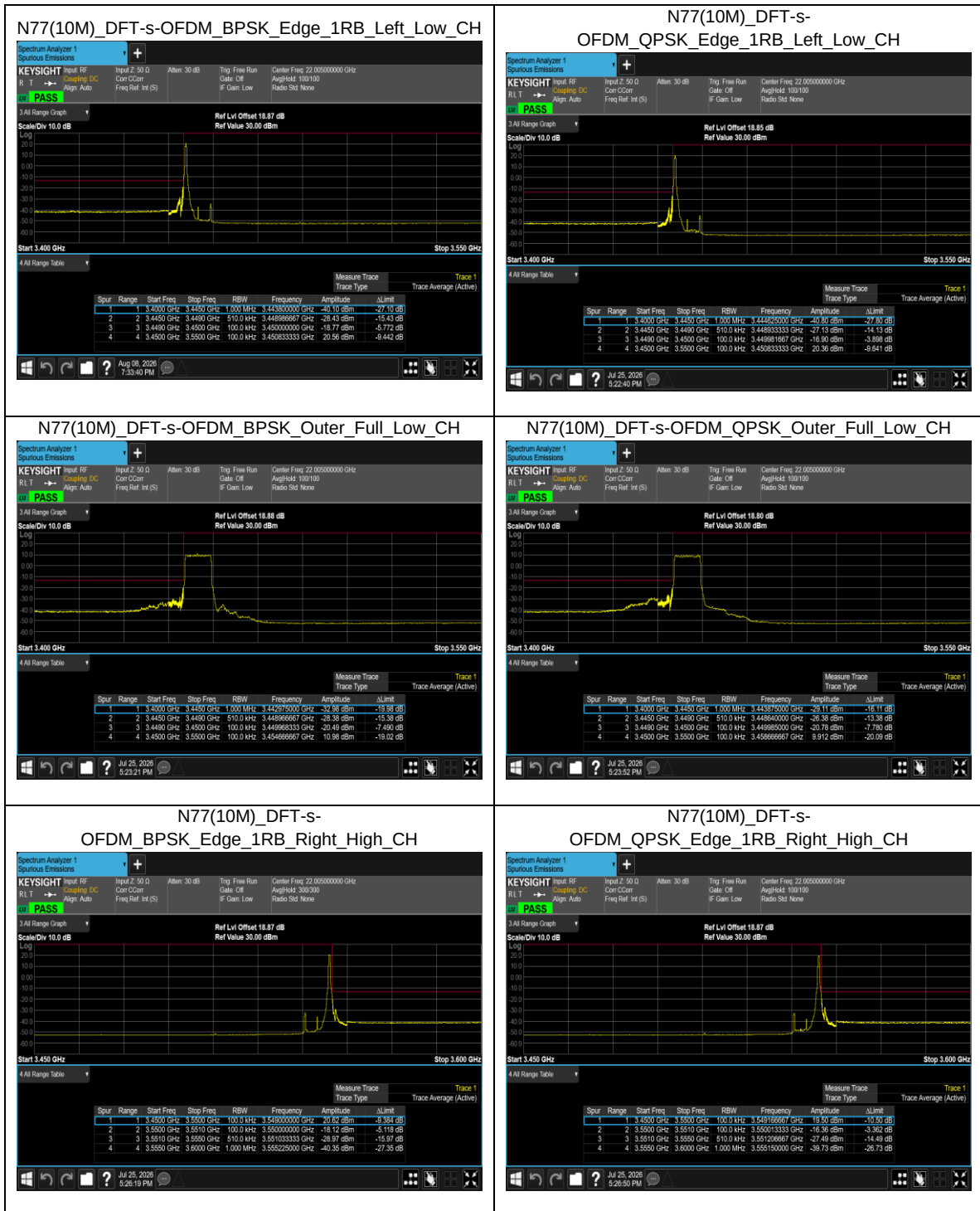
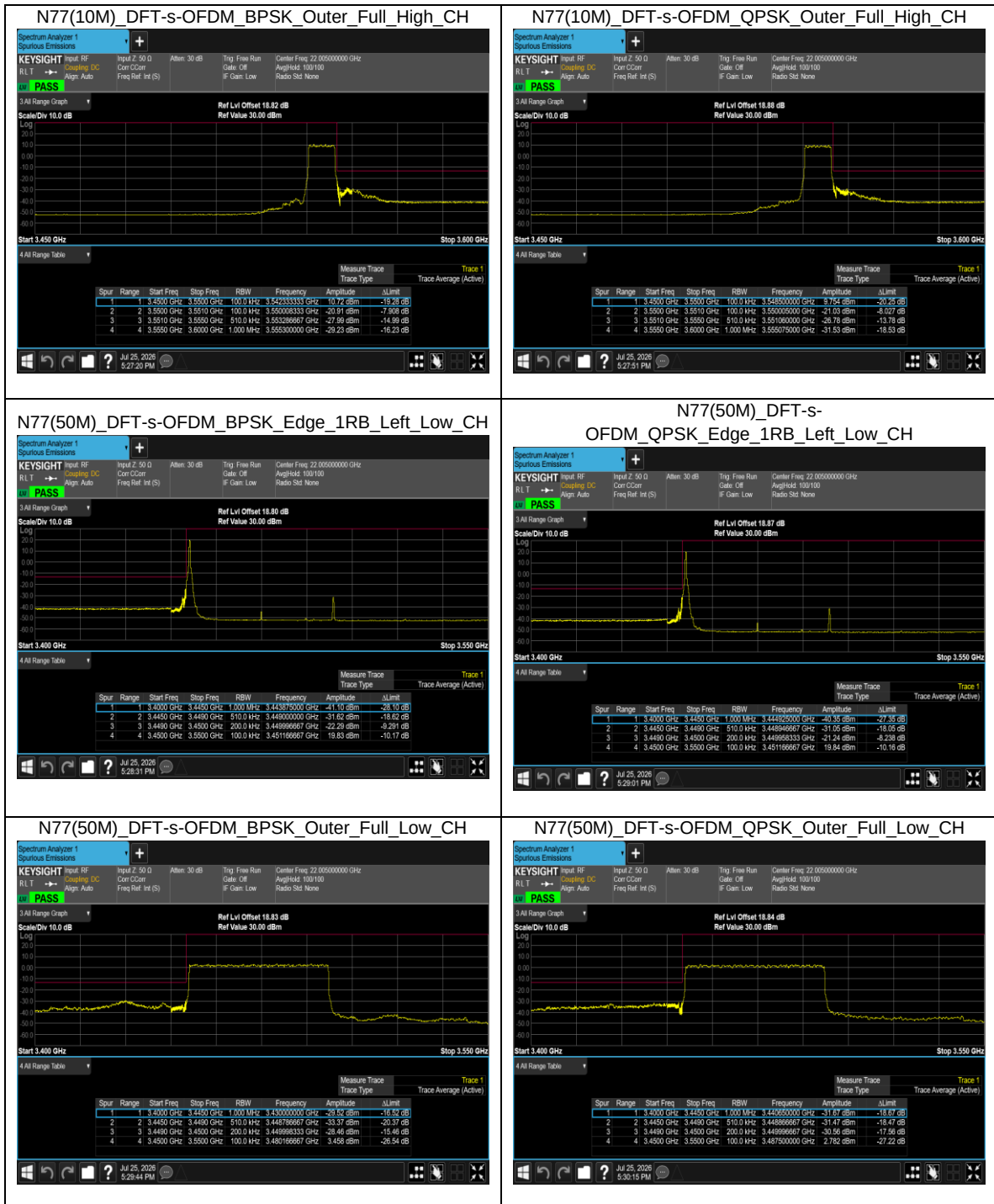
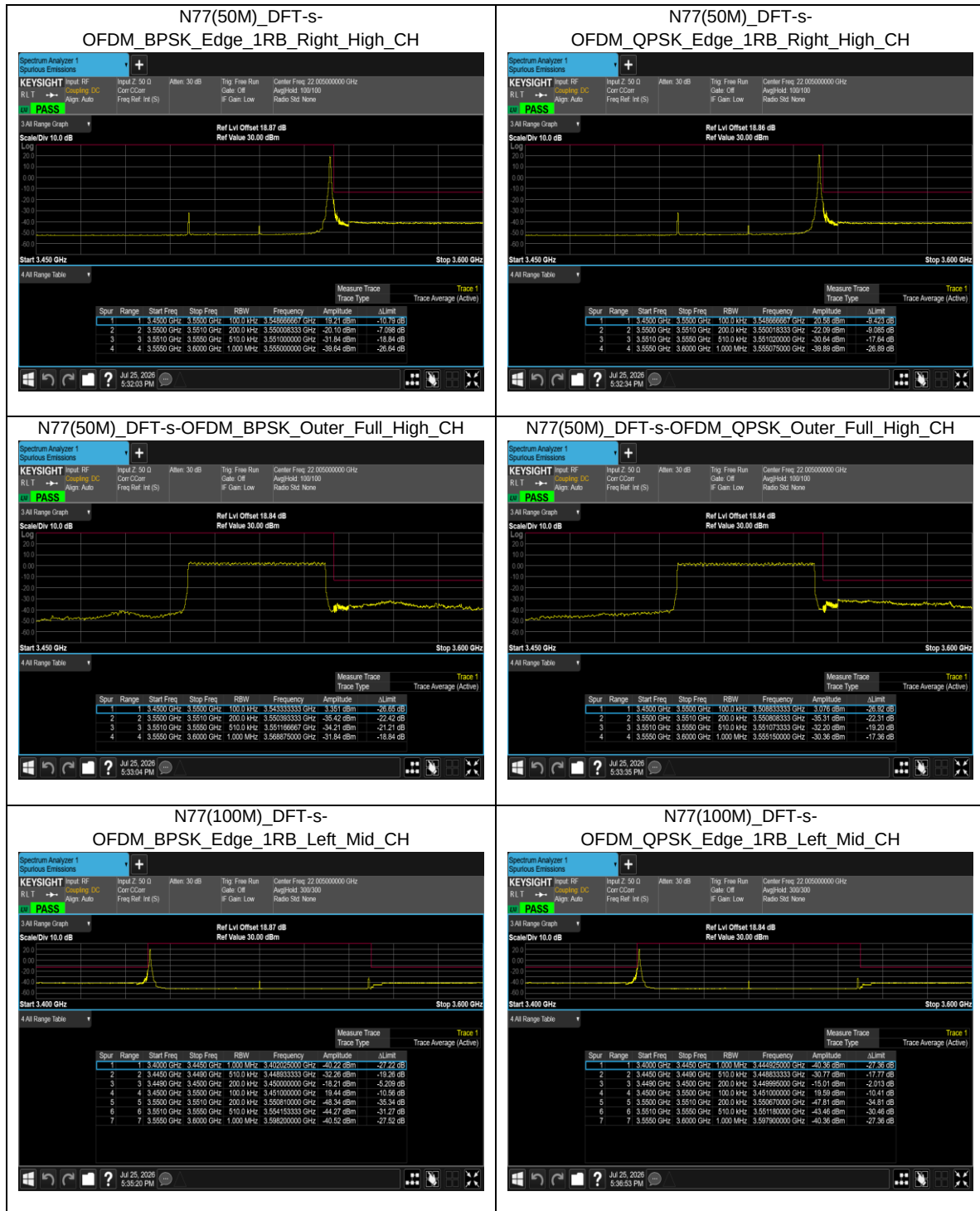
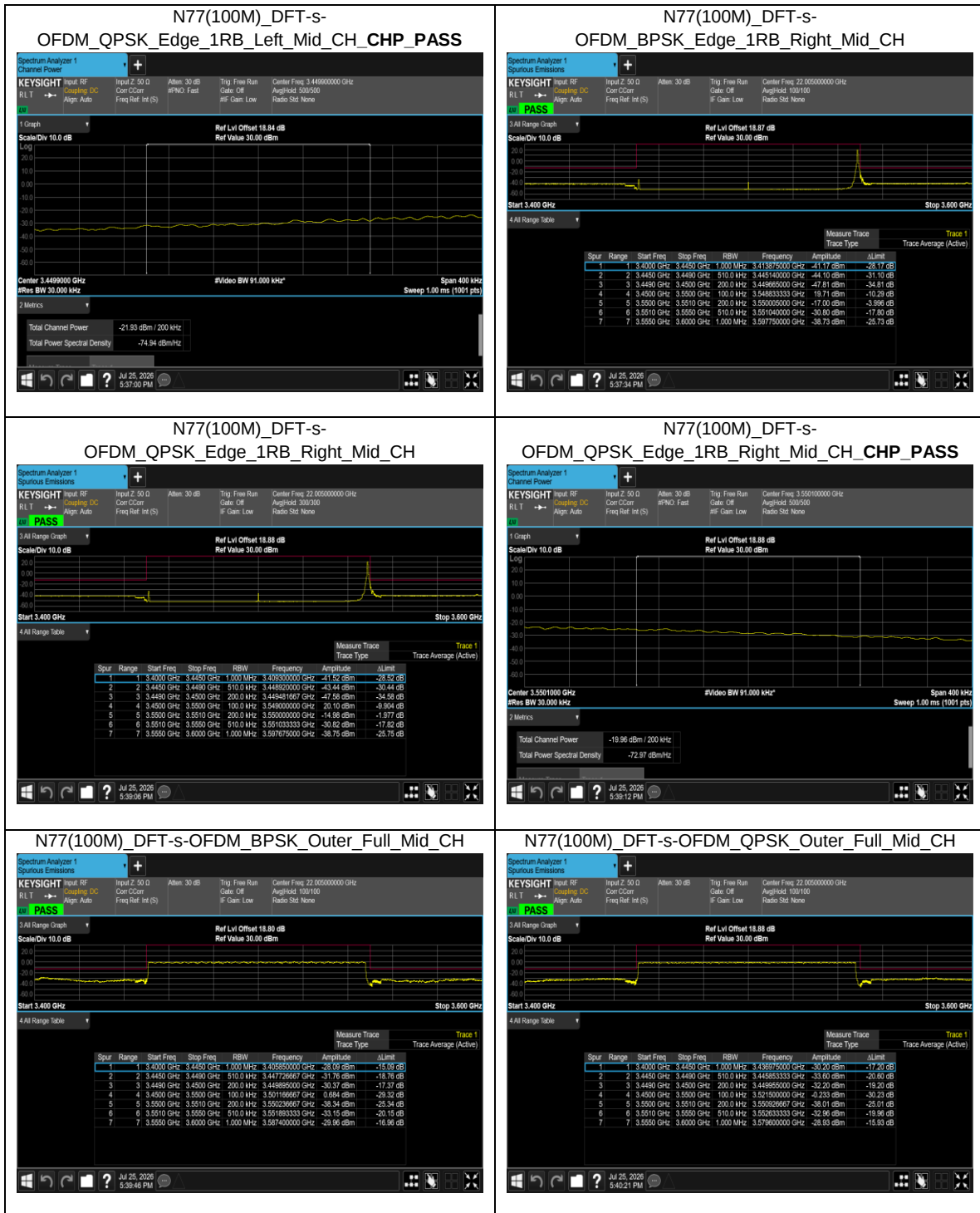












Software Version: 23.06.1602

FR1 N77 MIMO-ANT2

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (Hz)	Verdict	Environment
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	16.1	PASS	NV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	15.6	PASS	LV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	16.6	PASS	HV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	12.6	PASS	-30℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	18.5	PASS	-20℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	13.7	PASS	-10℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	17.9	PASS	0℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	17.7	PASS	10℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	14.7	PASS	20℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	15.9	PASS	30℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	12.8	PASS	40℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	11.2	PASS	50℃

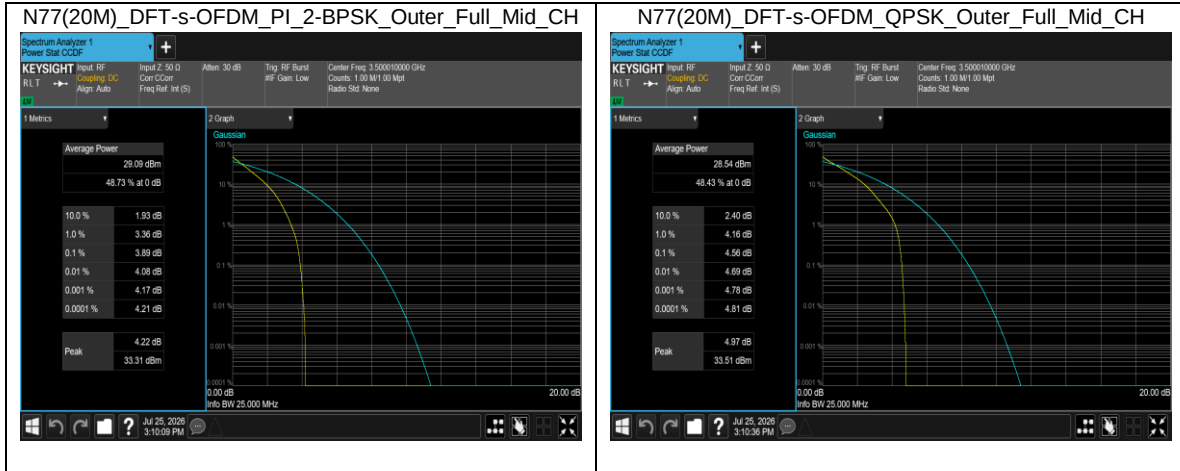
 $|\text{MAX}(\Delta f)| = 18.5\text{Hz}$

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	3450.789182	$\geq 3450\text{ MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	3549.230819	$\leq 3550\text{ MHz}$	



Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@0	3.89	13	PASS
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	4.56	13	PASS



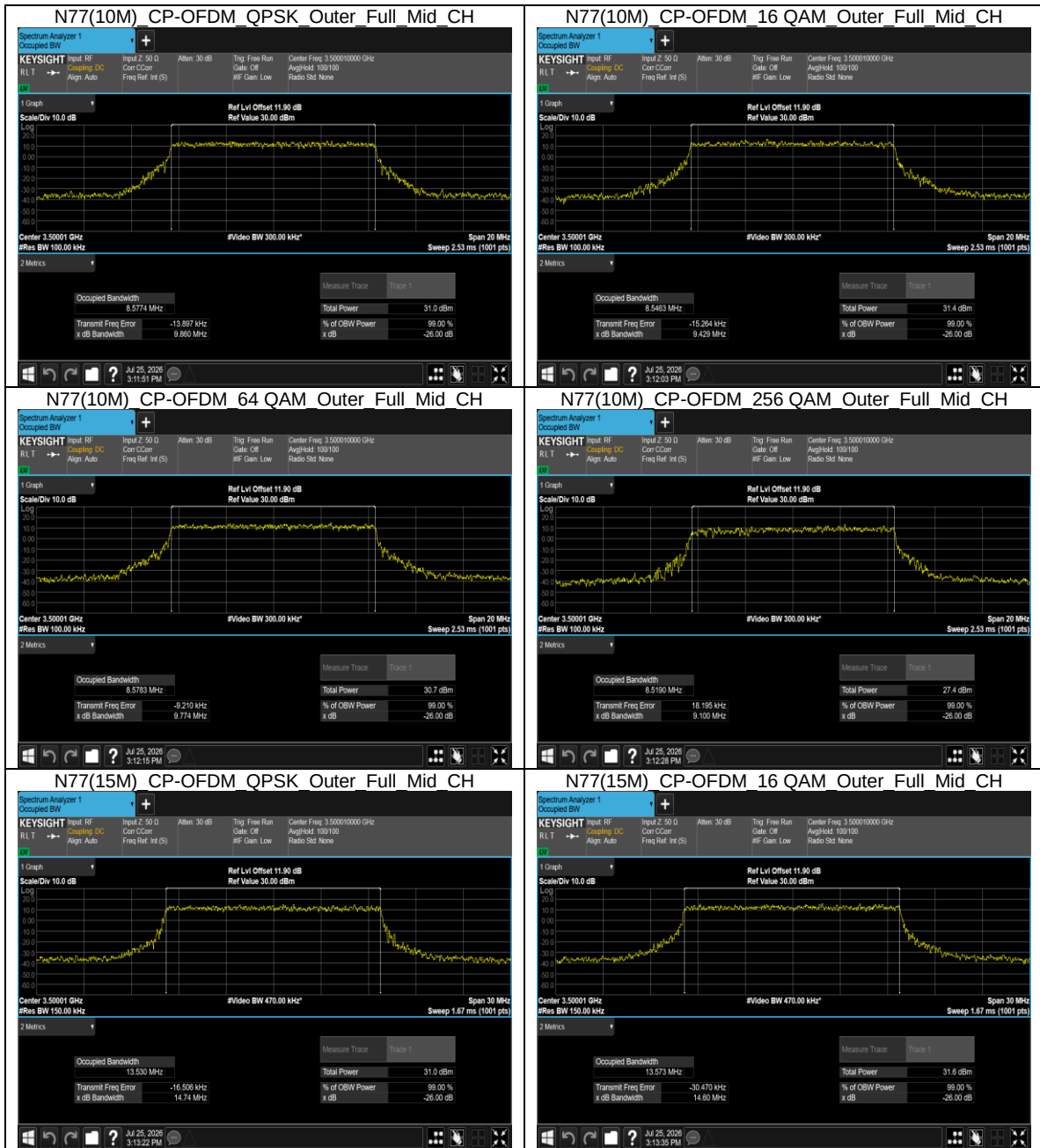


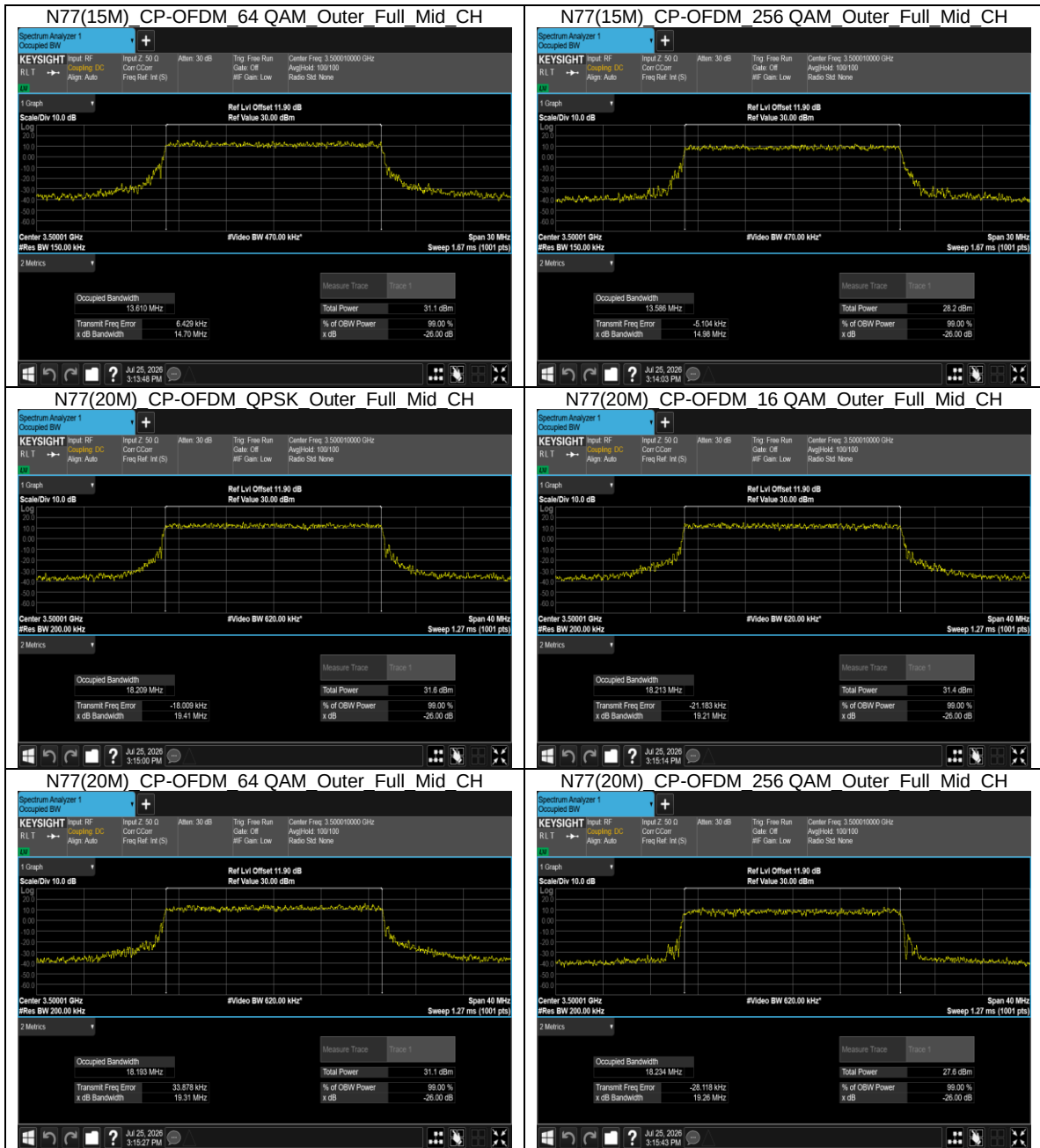
Occupied Bandwidth

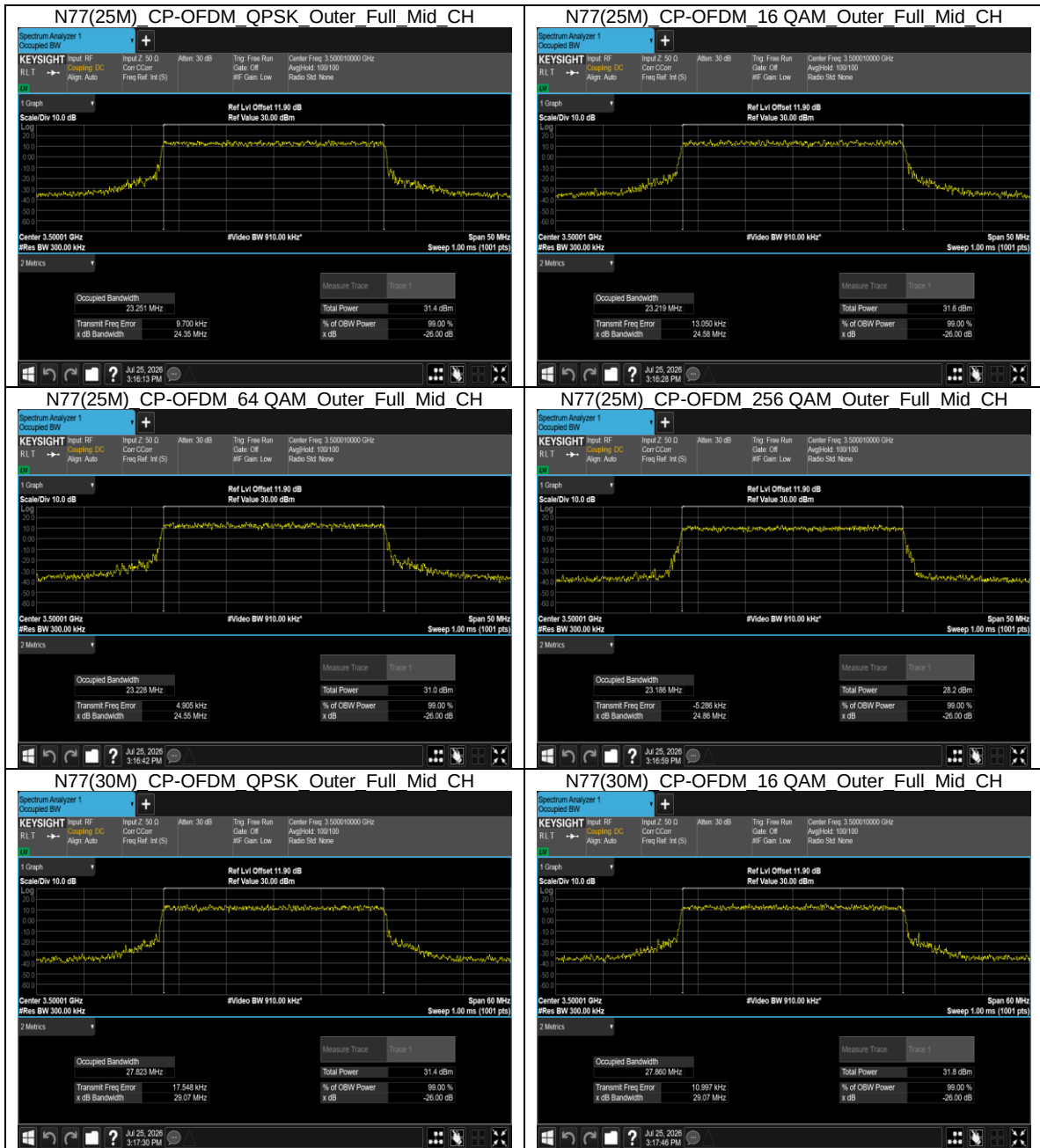
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
77	30	10	633334	3500.01	CP-OFDM QPSK	24@0	8.5774	9.86
77	30	10	633334	3500.01	CP-OFDM 16 QAM	24@0	8.5463	9.429
77	30	10	633334	3500.01	CP-OFDM 64 QAM	24@0	8.5783	9.774
77	30	10	633334	3500.01	CP-OFDM 256 QAM	24@0	8.519	9.1
77	30	15	633334	3500.01	CP-OFDM QPSK	38@0	13.53	14.74
77	30	15	633334	3500.01	CP-OFDM 16 QAM	38@0	13.573	14.6
77	30	15	633334	3500.01	CP-OFDM 64 QAM	38@0	13.61	14.7
77	30	15	633334	3500.01	CP-OFDM 256 QAM	38@0	13.586	14.98
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	18.209	19.41
77	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	18.213	19.21
77	30	20	633334	3500.01	CP-OFDM 64 QAM	51@0	18.193	19.31
77	30	20	633334	3500.01	CP-OFDM 256 QAM	51@0	18.234	19.26
77	30	25	633334	3500.01	CP-OFDM QPSK	65@0	23.251	24.35
77	30	25	633334	3500.01	CP-OFDM 16 QAM	65@0	23.219	24.58
77	30	25	633334	3500.01	CP-OFDM 64 QAM	65@0	23.228	24.55
77	30	25	633334	3500.01	CP-OFDM 256 QAM	65@0	23.186	24.86
77	30	30	633334	3500.01	CP-OFDM QPSK	78@0	27.823	29.07
77	30	30	633334	3500.01	CP-OFDM 16 QAM	78@0	27.86	29.07
77	30	30	633334	3500.01	CP-OFDM 64 QAM	78@0	27.833	28.96
77	30	30	633334	3500.01	CP-OFDM 256 QAM	78@0	27.896	29.05
77	30	40	633334	3500.01	CP-OFDM QPSK	106@0	37.828	39.41
77	30	40	633334	3500.01	CP-OFDM 16 QAM	106@0	37.825	39.77
77	30	40	633334	3500.01	CP-OFDM 64 QAM	106@0	37.844	39.5
77	30	40	633334	3500.01	CP-OFDM 256 QAM	106@0	37.889	39.39
77	30	50	633334	3500.01	CP-OFDM QPSK	133@0	47.513	49.2
77	30	50	633334	3500.01	CP-OFDM 16 QAM	133@0	47.439	49.12
77	30	50	633334	3500.01	CP-OFDM 64 QAM	133@0	47.485	48.98
77	30	50	633334	3500.01	CP-OFDM 256 QAM	133@0	47.428	49.17
77	30	60	633334	3500.01	CP-OFDM QPSK	162@0	57.853	59.83
77	30	60	633334	3500.01	CP-OFDM 16 QAM	162@0	57.78	59.87
77	30	60	633334	3500.01	CP-OFDM 64 QAM	162@0	57.938	60.38
77	30	60	633334	3500.01	CP-OFDM 256 QAM	162@0	57.853	59.85
77	30	70	633334	3500.01	CP-OFDM QPSK	189@0	67.64	69.72
77	30	70	633334	3500.01	CP-OFDM 16 QAM	189@0	67.685	69.79
77	30	70	633334	3500.01	CP-OFDM 64 QAM	189@0	67.616	69.71
77	30	70	633334	3500.01	CP-OFDM 256 QAM	189@0	67.137	69.71
77	30	80	633334	3500.01	CP-OFDM QPSK	217@0	77.484	79.94

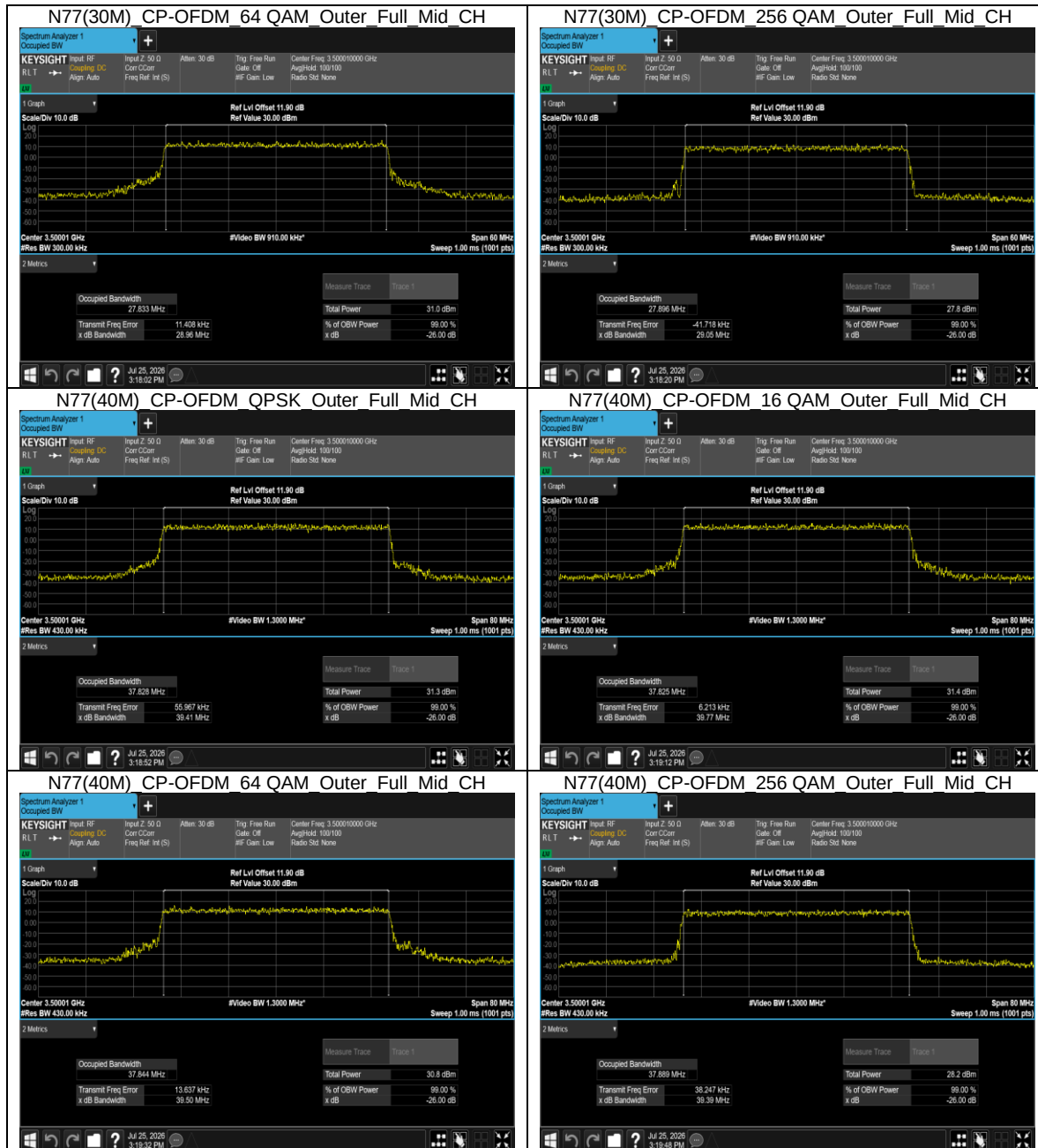


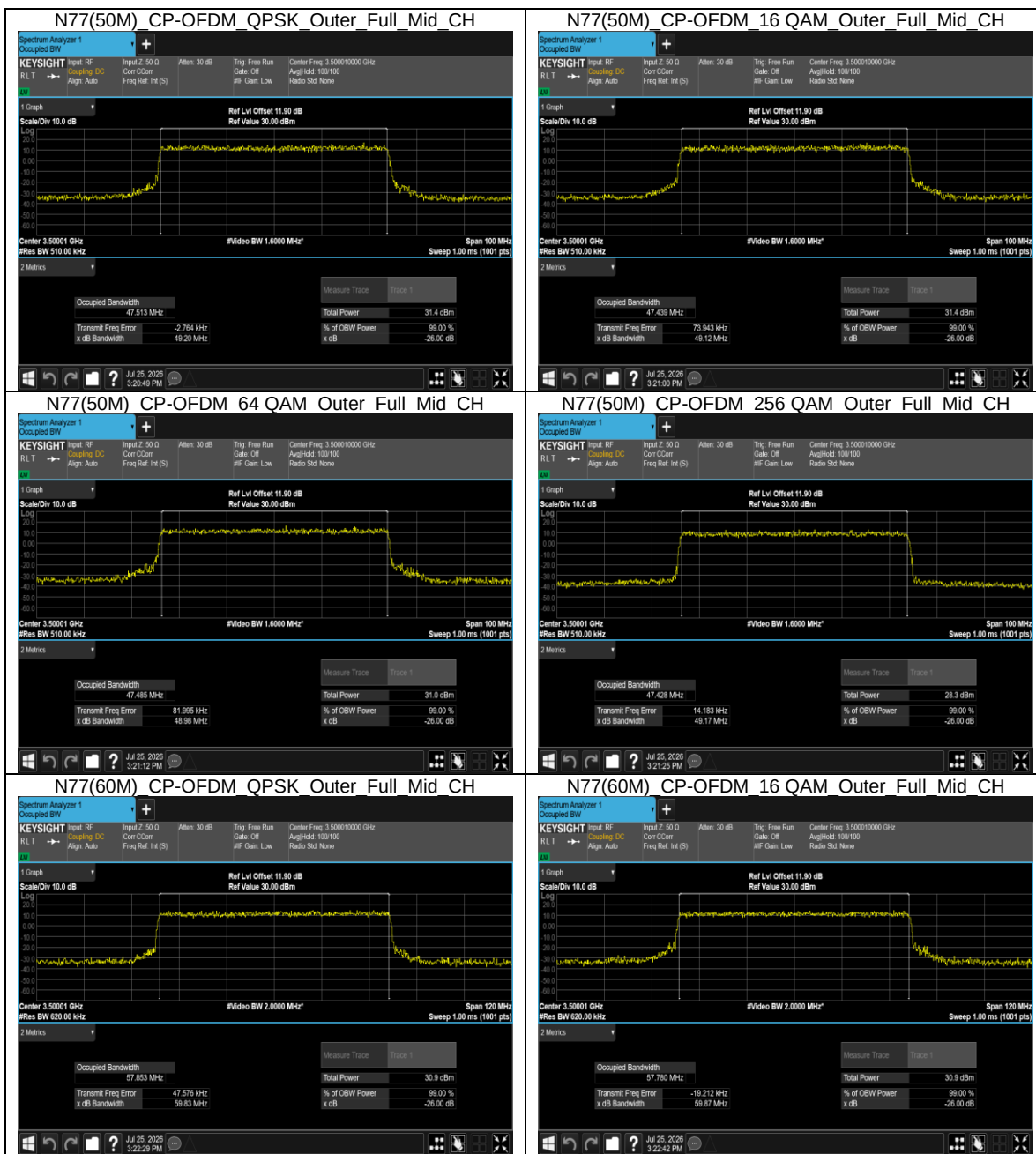
77	30	80	633334	3500.01	CP-OFDM 16 QAM	217@0	77.688	79.93
77	30	80	633334	3500.01	CP-OFDM 64 QAM	217@0	77.325	79.95
77	30	80	633334	3500.01	CP-OFDM 256 QAM	217@0	77.502	79.93
77	30	90	633334	3500.01	CP-OFDM QPSK	245@0	87.491	90.19
77	30	90	633334	3500.01	CP-OFDM 16 QAM	245@0	87.528	90.45
77	30	90	633334	3500.01	CP-OFDM 64 QAM	245@0	87.315	90.2
77	30	90	633334	3500.01	CP-OFDM 256 QAM	245@0	87.514	90.18
77	30	100	633334	3500.01	CP-OFDM QPSK	273@0	97.598	100.5
77	30	100	633334	3500.01	CP-OFDM 16 QAM	273@0	97.436	100.5
77	30	100	633334	3500.01	CP-OFDM 64 QAM	273@0	97.577	100.5
77	30	100	633334	3500.01	CP-OFDM 256 QAM	273@0	97.558	100.4

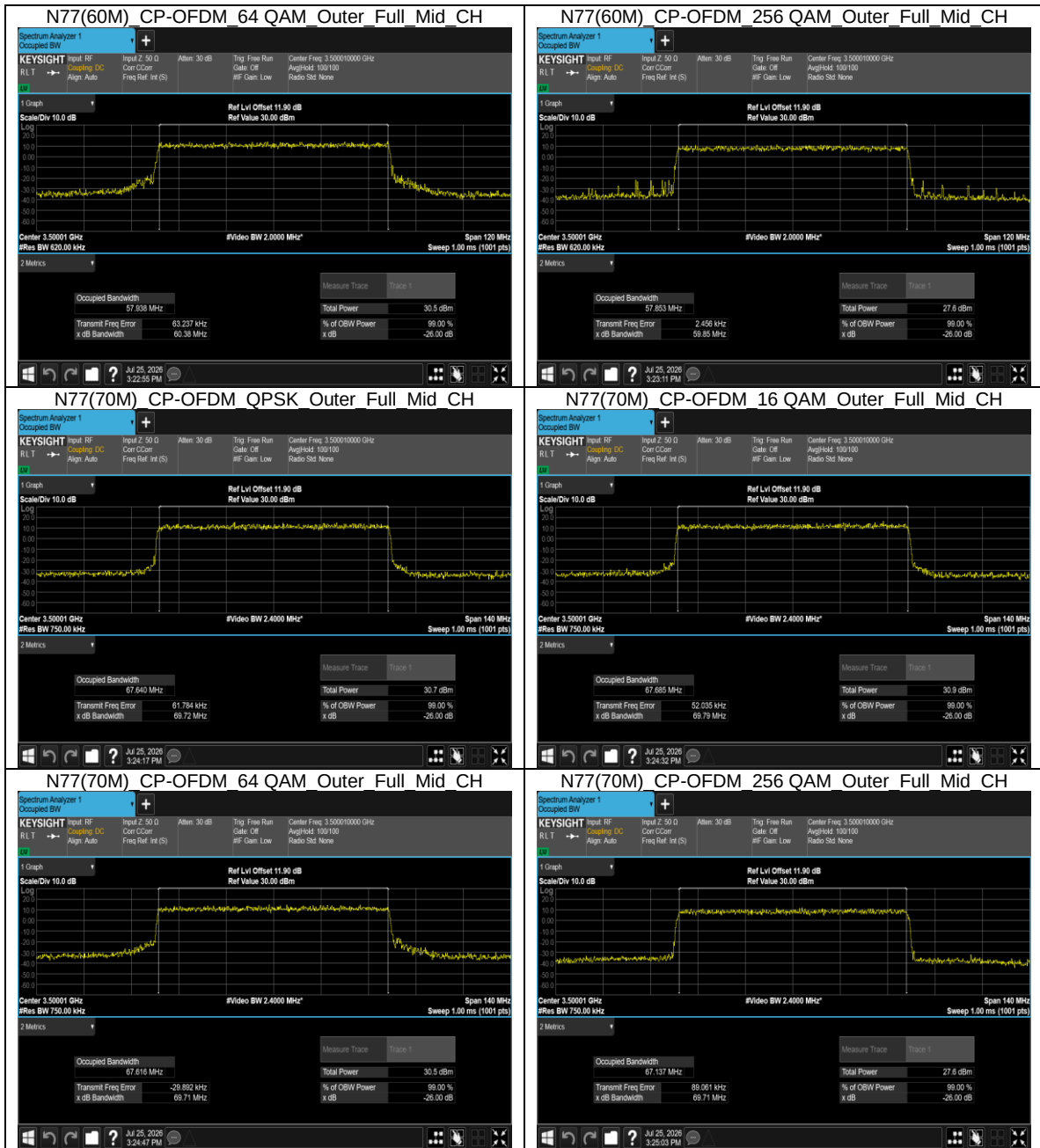


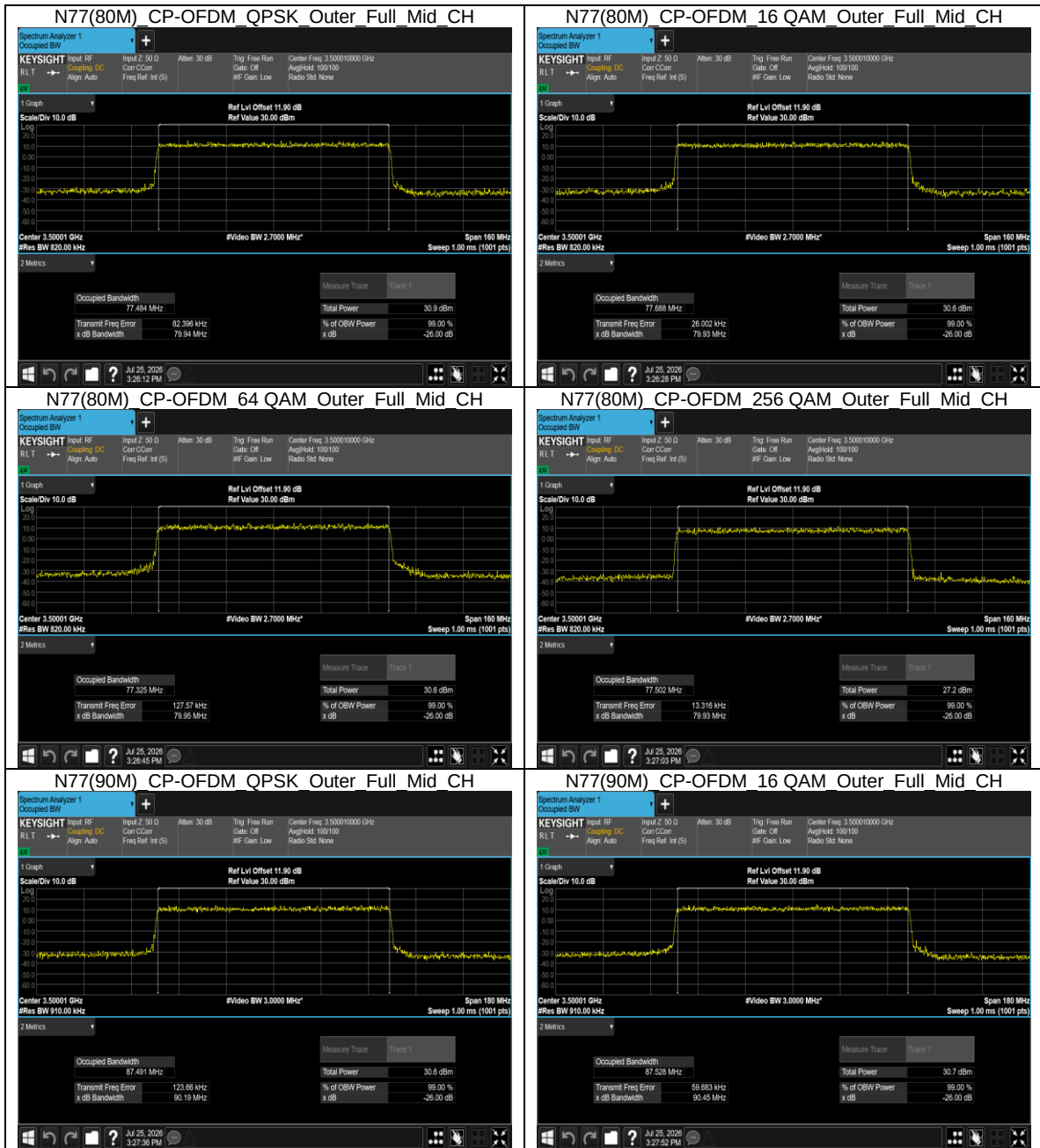


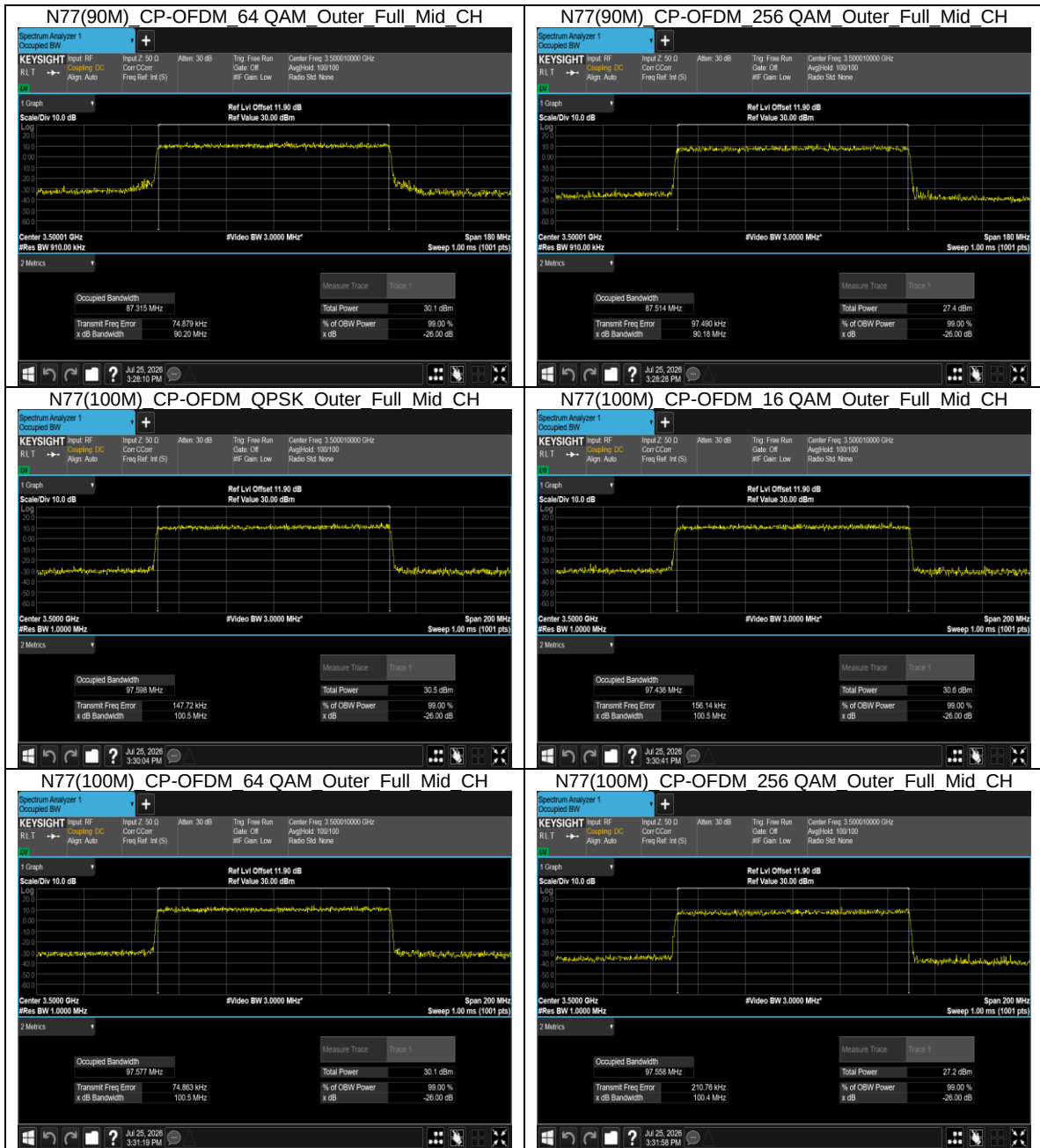














Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	636332	3544.98	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	10	636332	3544.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	636332	3544.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	PASS



77	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS

