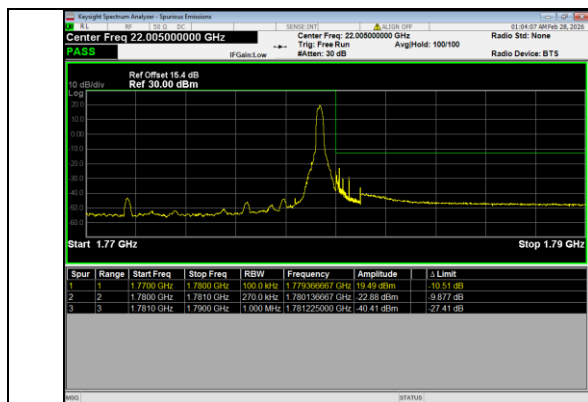
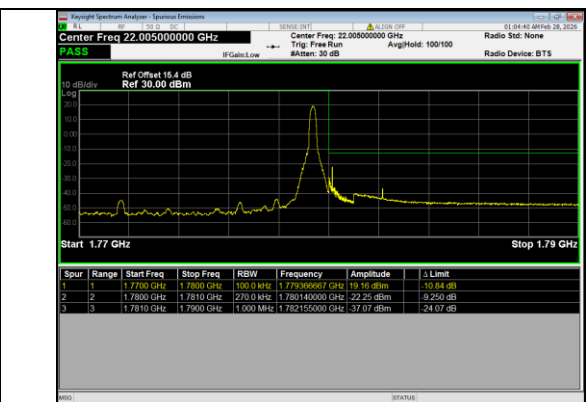
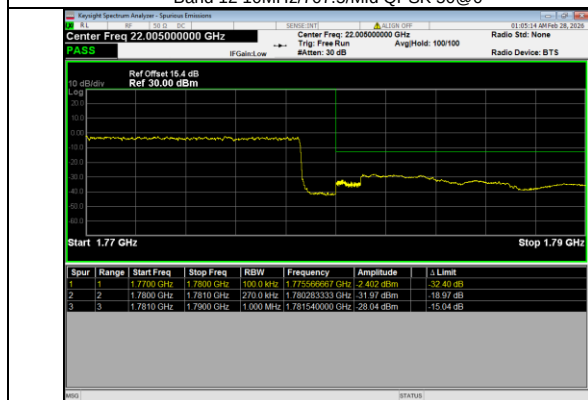




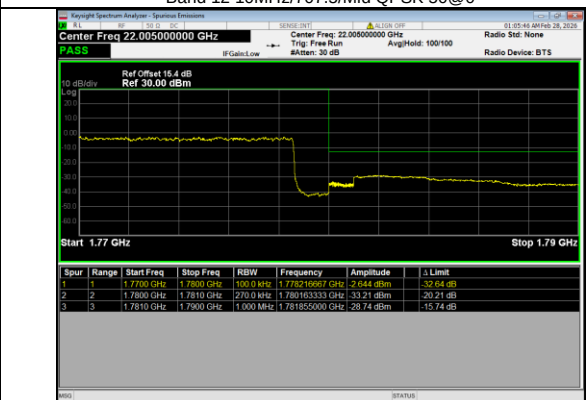
Conducted_Band_Edge.png
Band 66 25MHz/1767.5/High BPSK 1@132
Band 12 10MHz/707.5/Mid QPSK 50@0



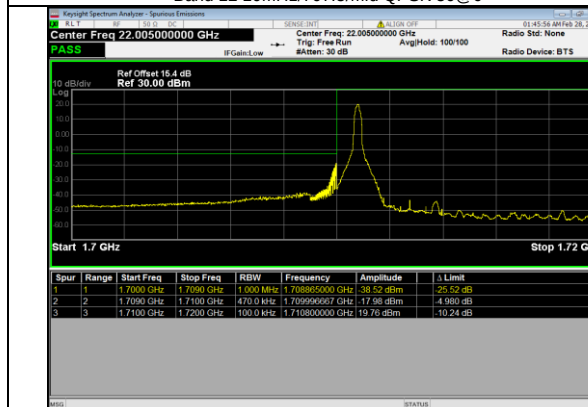
Conducted_Band_Edge.png
Band 66 25MHz/1767.5/High QPSK 1@132
Band 12 10MHz/707.5/Mid QPSK 50@0



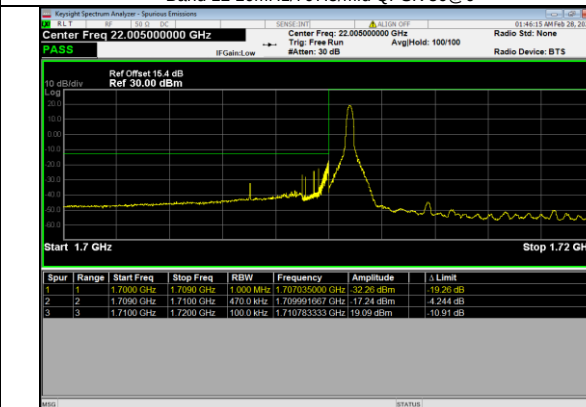
Conducted_Band_Edge.png
Band 66 25MHz/1767.5/High BPSK 128@0
Band 12 10MHz/707.5/Mid QPSK 50@0



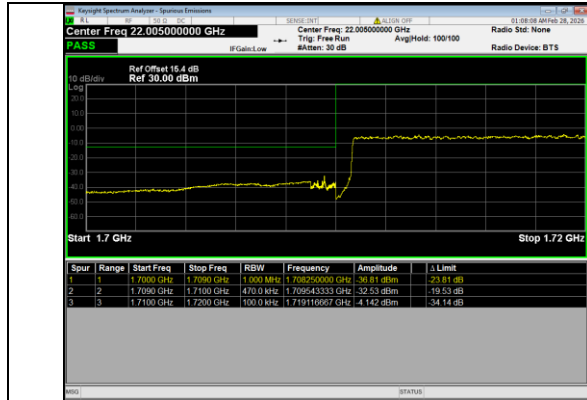
Conducted_Band_Edge.png
Band 66 25MHz/1767.5/High QPSK 128@0
Band 12 10MHz/707.5/Mid QPSK 50@0



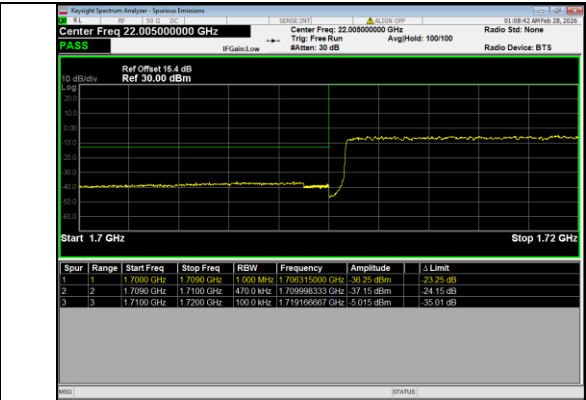
Conducted_Band_Edge.png
Band 66 45MHz/1732.5/Low BPSK 1@0
Band 12 10MHz/707.5/Mid QPSK 50@0



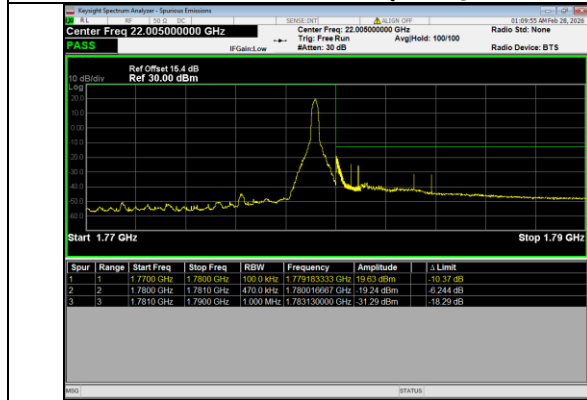
Conducted_Band_Edge.png
Band 66 45MHz/1732.5/Low QPSK 1@0
Band 12 10MHz/707.5/Mid QPSK 50@0



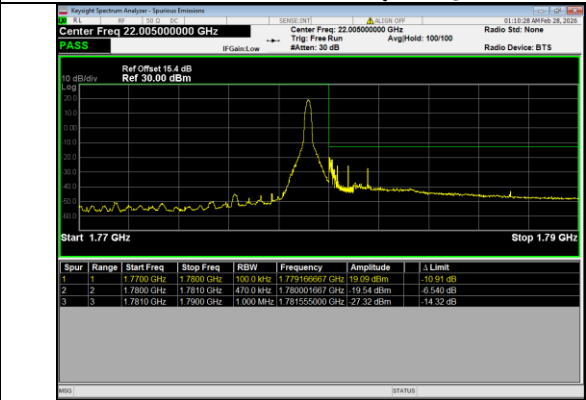
Conducted_Band_Edge.png
Band 66 45MHz/1732.5/Low BPSK 240@0
Band 12 10MHz/707.5/Mid QPSK 50@0



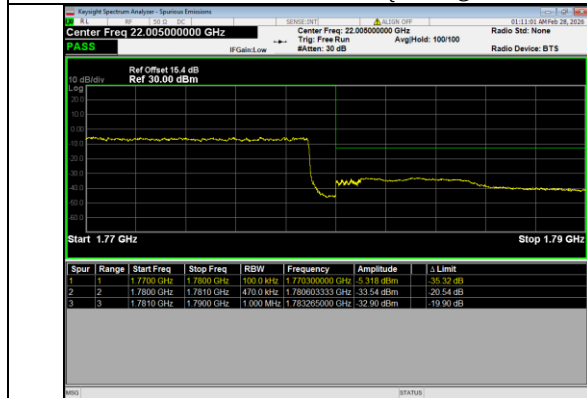
Conducted_Band_Edge.png
Band 66 45MHz/1732.5/Low QPSK 240@0
Band 12 10MHz/707.5/Mid QPSK 50@0



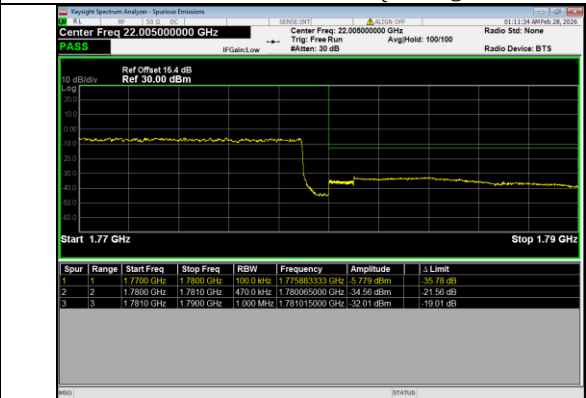
Conducted_Band_Edge.png
Band 66 45MHz/1757.5/High BPSK 1@241
Band 12 10MHz/707.5/Mid QPSK 50@0



Conducted_Band_Edge.png
Band 66 45MHz/1757.5/High QPSK 1@241
Band 12 10MHz/707.5/Mid QPSK 50@0



Conducted_Band_Edge.png
Band 66 45MHz/1757.5/High BPSK 240@0
Band 12 10MHz/707.5/Mid QPSK 50@0



Conducted_Band_Edge.png
Band 66 45MHz/1757.5/High QPSK 240@0
Band 12 10MHz/707.5/Mid QPSK 50@0

**FR1 N66_ANT0 (Main PA)****Frequency Stability**

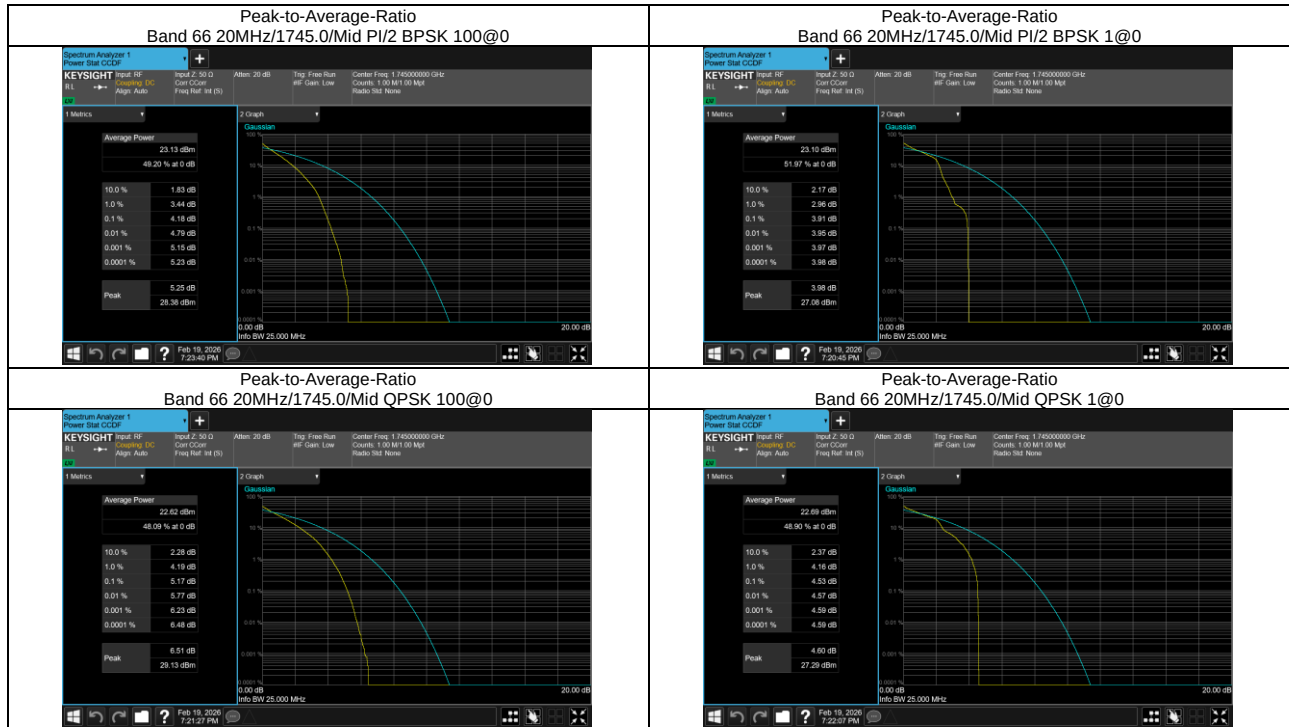
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.0063	PASS	NV
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.0055	PASS	LV
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.0051	PASS	HV
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.0000	PASS	-30℃
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.0048	PASS	-20℃
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.0007	PASS	-10℃
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.0008	PASS	0℃
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.0046	PASS	10℃
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.0010	PASS	20℃
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.0030	PASS	30℃
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.0061	PASS	40℃
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.0057	PASS	50℃

Peak to Average Ratio

Test Result

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Result	Verdict
66	15	20	349000	1745.0	DFT-s-OFDM PI/2 BPSK	100@0	4.18	13
66	15	20	349000	1745.0	DFT-s-OFDM PI/2 BPSK	1@0	3.91	13
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	5.17	13
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	1@0	4.53	13

Test Graphs





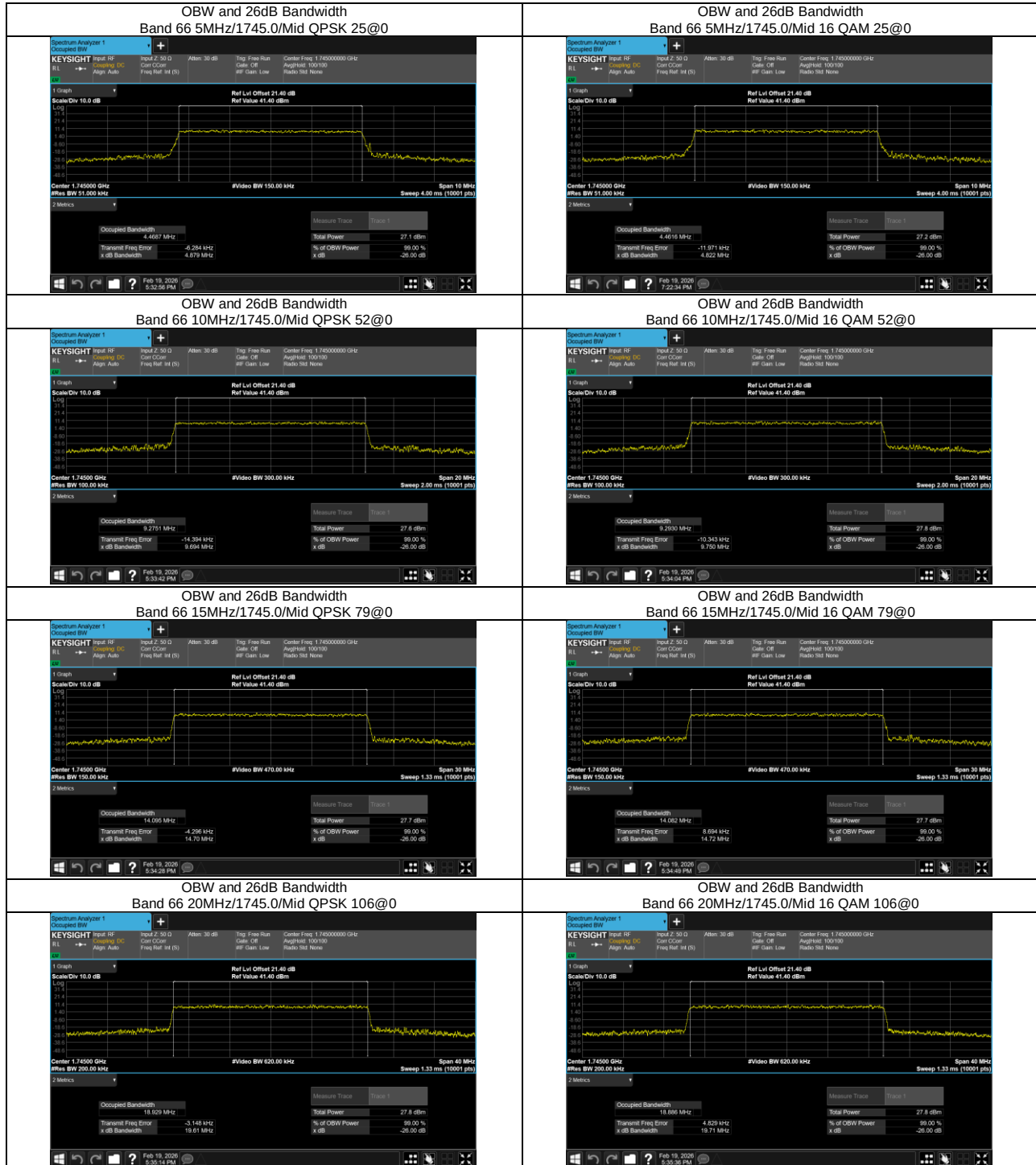
Occupied Bandwidth

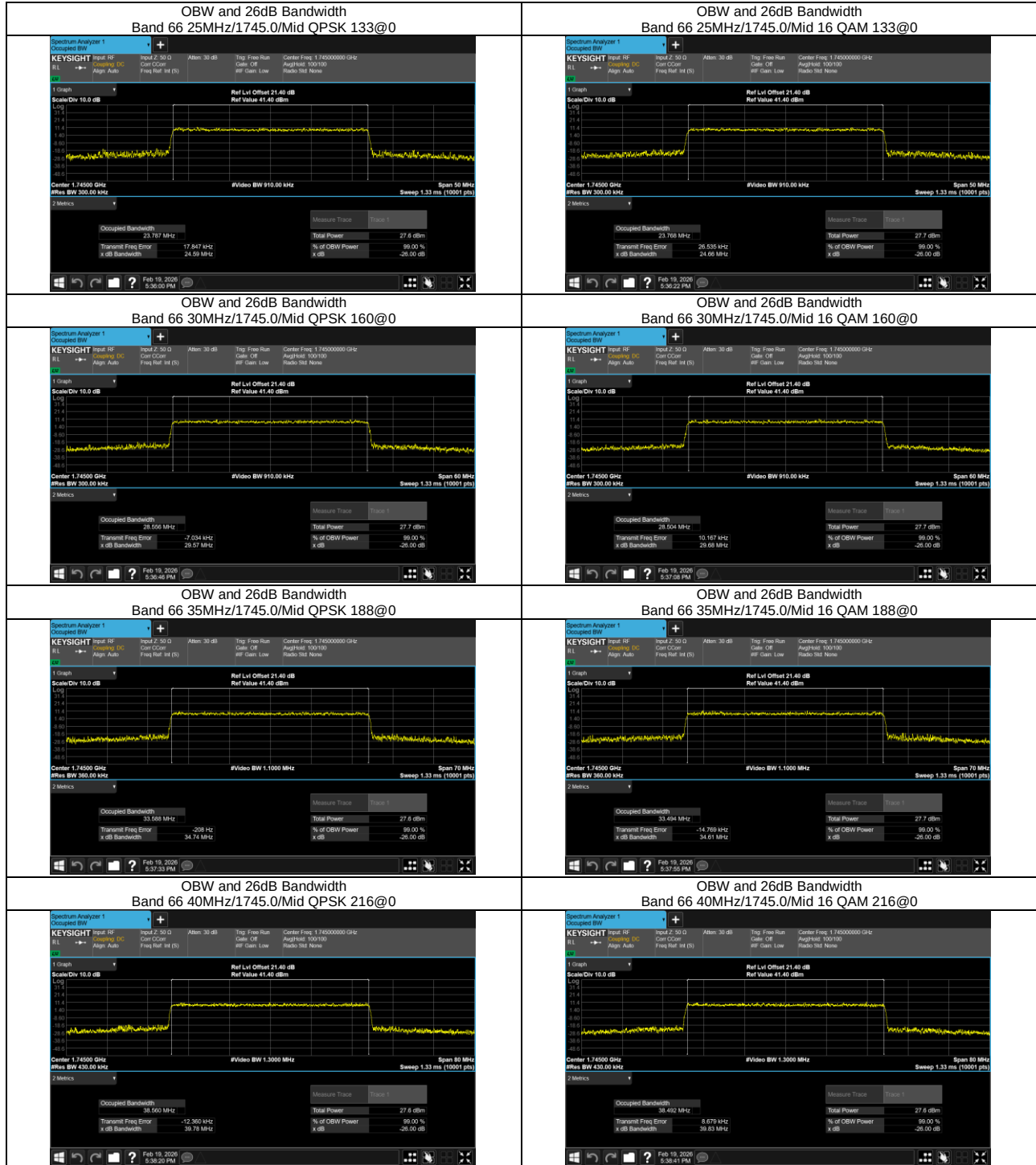
Test Result

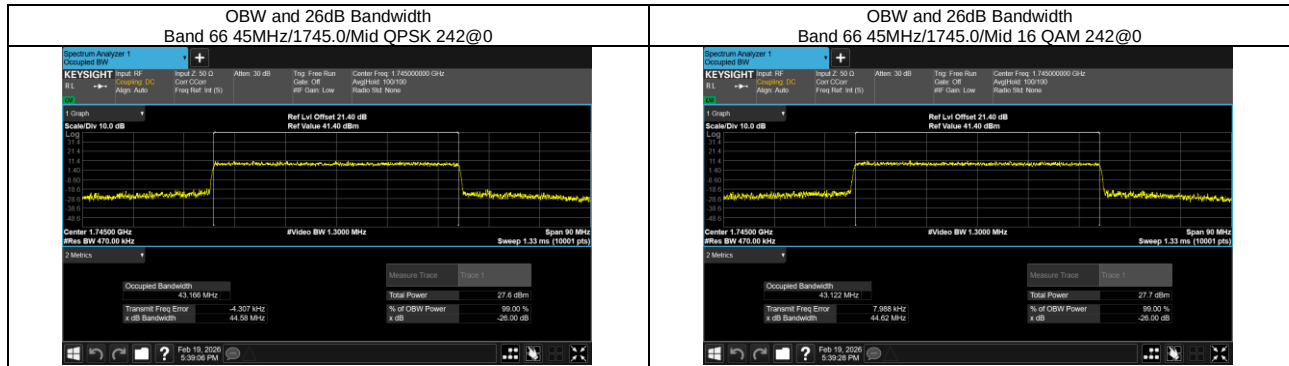
NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	OBW(MHz)	26dB OBW(MHz)
66	15	5	349000	1745.0	CP-OFDM QPSK	25@0	4.47	4.879
66	15	5	349000	1745.0	CP-OFDM 16 QAM	25@0	4.46	4.822
66	15	10	349000	1745.0	CP-OFDM QPSK	52@0	9.28	9.694
66	15	10	349000	1745.0	CP-OFDM 16 QAM	52@0	9.29	9.75
66	15	15	349000	1745.0	CP-OFDM QPSK	79@0	14.09	14.7
66	15	15	349000	1745.0	CP-OFDM 16 QAM	79@0	14.08	14.72
66	15	20	349000	1745.0	CP-OFDM QPSK	106@0	18.93	19.61
66	15	20	349000	1745.0	CP-OFDM 16 QAM	106@0	18.89	19.71
66	15	25	349000	1745.0	CP-OFDM QPSK	133@0	23.79	24.59
66	15	25	349000	1745.0	CP-OFDM 16 QAM	133@0	23.77	24.66
66	15	30	349000	1745.0	CP-OFDM QPSK	160@0	28.56	29.57
66	15	30	349000	1745.0	CP-OFDM 16 QAM	160@0	28.5	29.68
66	15	35	349000	1745.0	CP-OFDM QPSK	188@0	33.59	34.74
66	15	35	349000	1745.0	CP-OFDM 16 QAM	188@0	33.49	34.61
66	15	40	349000	1745.0	CP-OFDM QPSK	216@0	38.56	39.78
66	15	40	349000	1745.0	CP-OFDM 16 QAM	216@0	38.49	39.83
66	15	45	349000	1745.0	CP-OFDM QPSK	242@0	43.17	44.58
66	15	45	349000	1745.0	CP-OFDM 16 QAM	242@0	43.12	44.62



Test Graphs









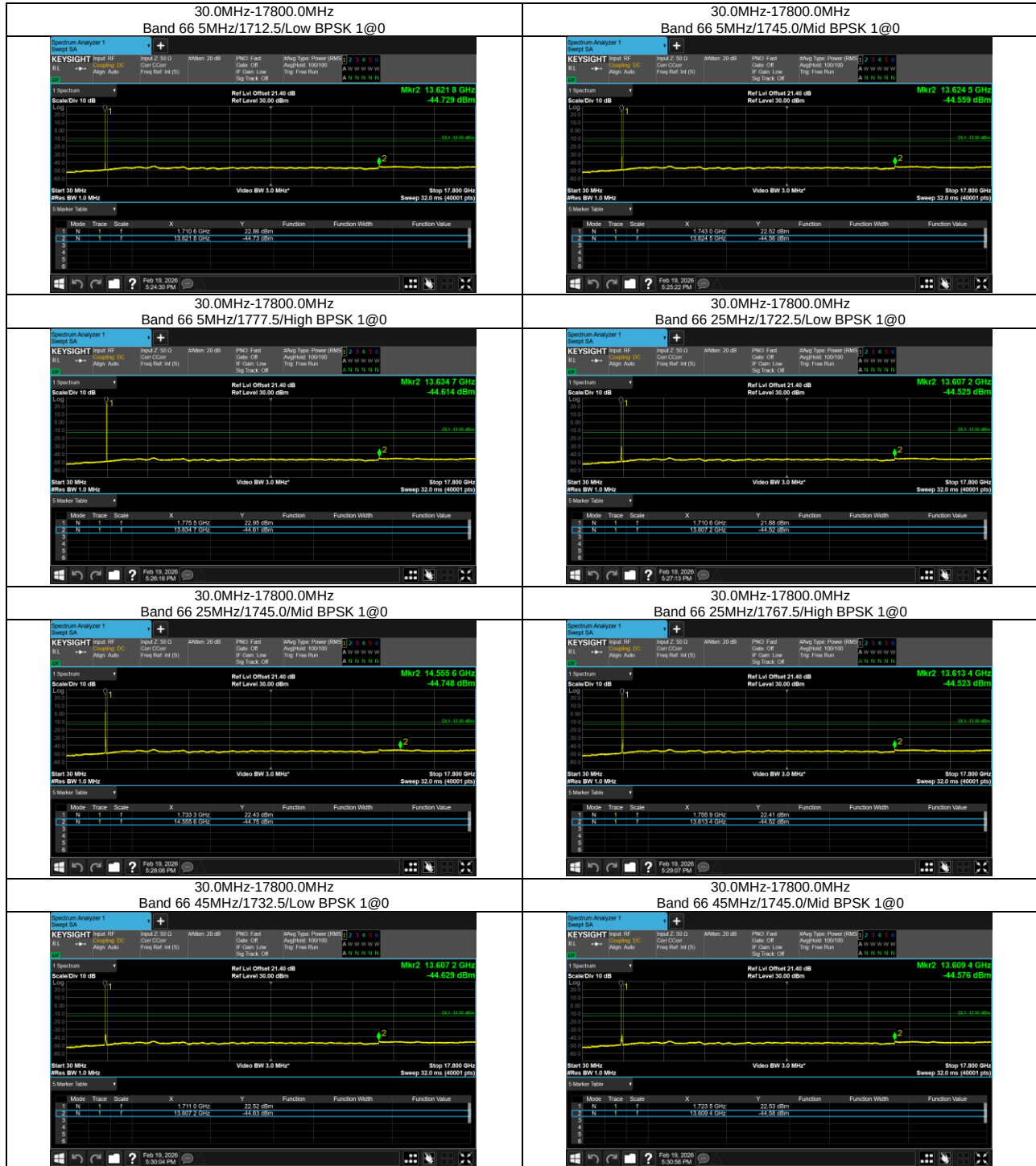
Conducted Spurious Emissions

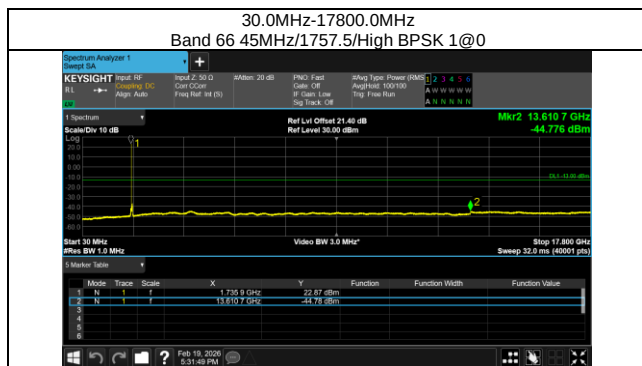
Test Result

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Result	Verdict
66	15	5	342500	1712.5	DFT-s-OFDM BPSK	1@0	See graph	PASS
66	15	5	349000	1745.0	DFT-s-OFDM BPSK	1@0	See graph	PASS
66	15	5	355500	1777.5	DFT-s-OFDM BPSK	1@0	See graph	PASS
66	15	25	344500	1722.5	DFT-s-OFDM BPSK	1@0	See graph	PASS
66	15	25	349000	1745.0	DFT-s-OFDM BPSK	1@0	See graph	PASS
66	15	25	353500	1767.5	DFT-s-OFDM BPSK	1@0	See graph	PASS
66	15	45	346500	1732.5	DFT-s-OFDM BPSK	1@0	See graph	PASS
66	15	45	349000	1745.0	DFT-s-OFDM BPSK	1@0	See graph	PASS
66	15	45	351500	1757.5	DFT-s-OFDM BPSK	1@0	See graph	PASS



Test Graphs







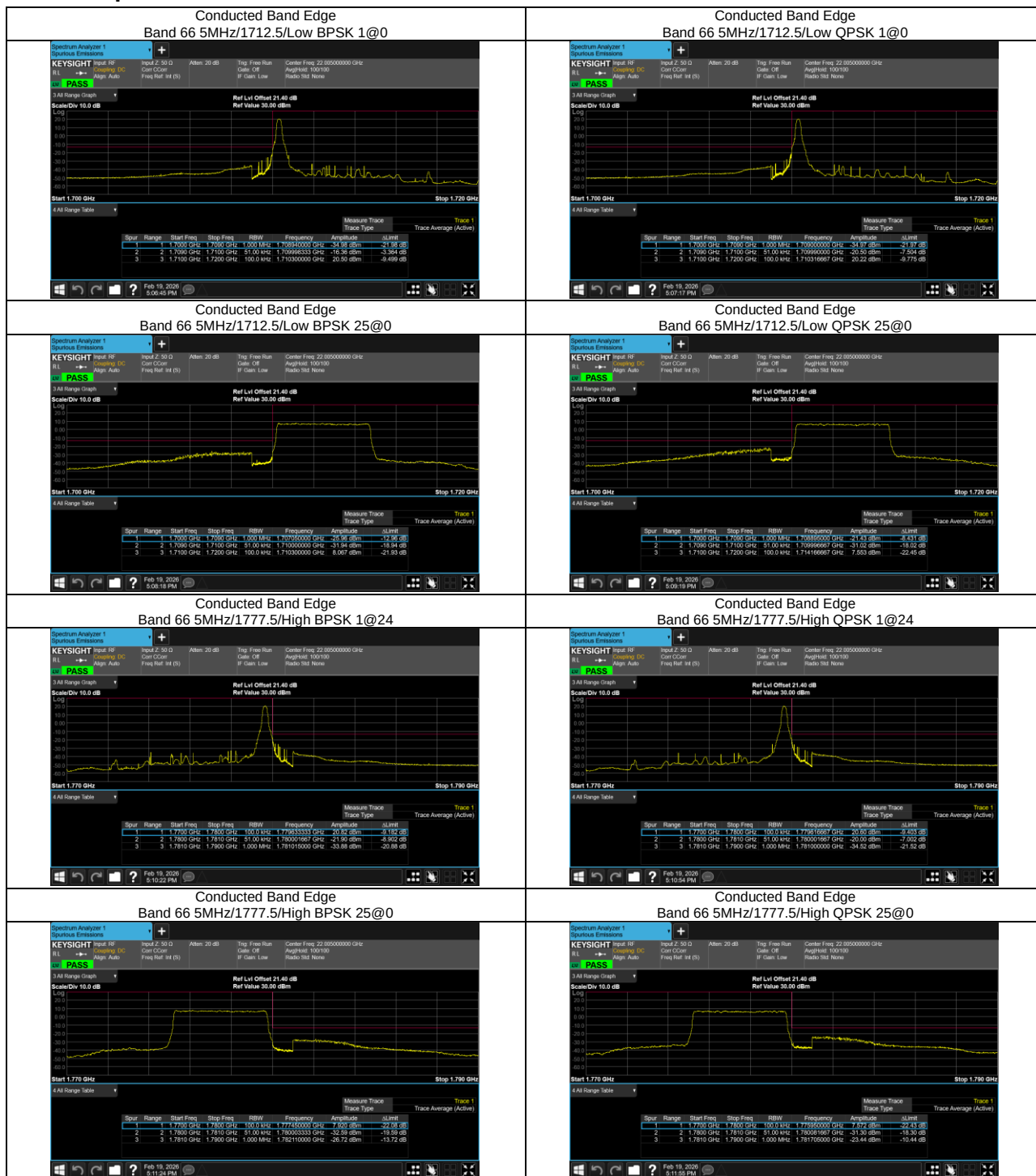
Conducted Band Edge

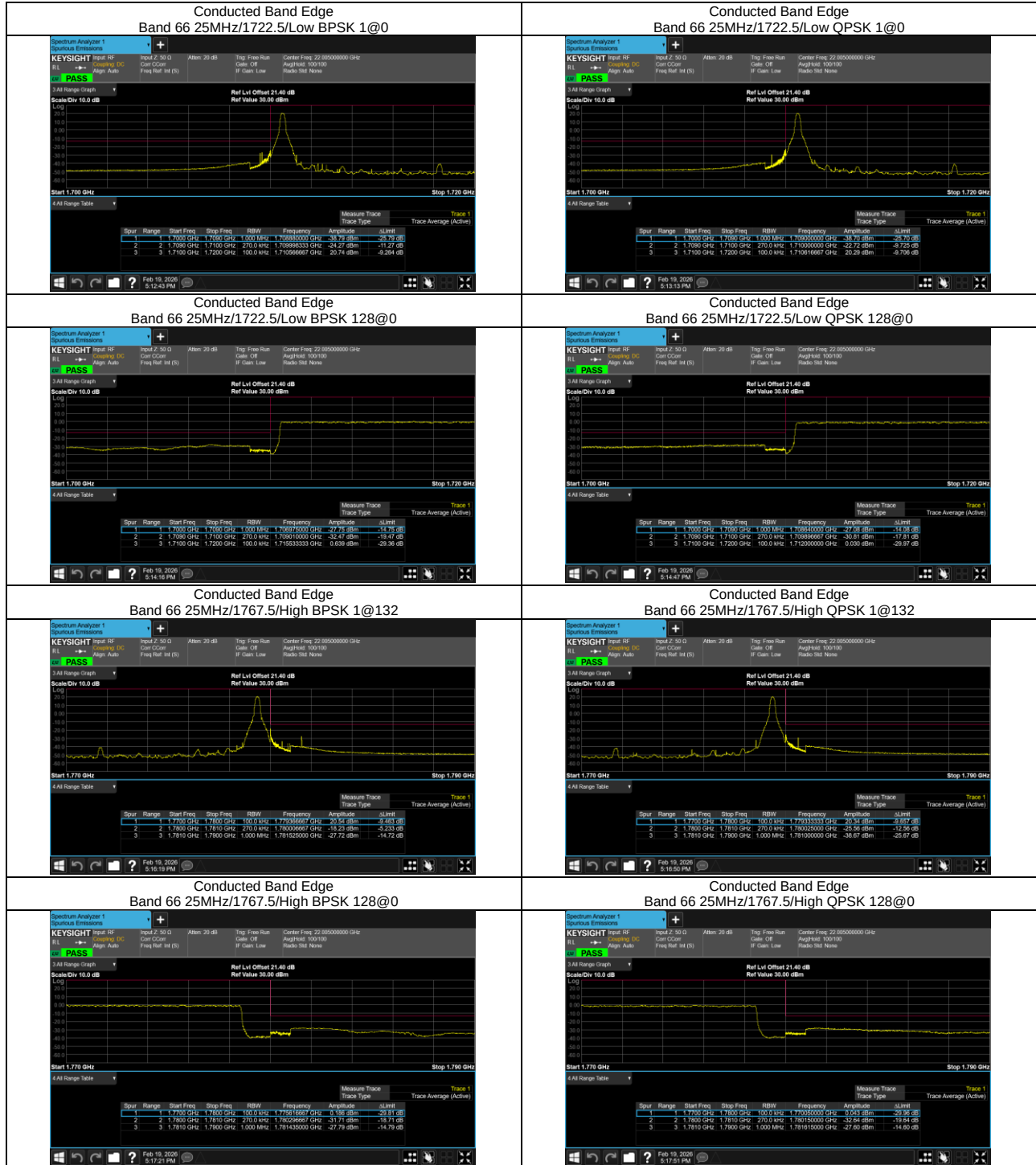
Test Result

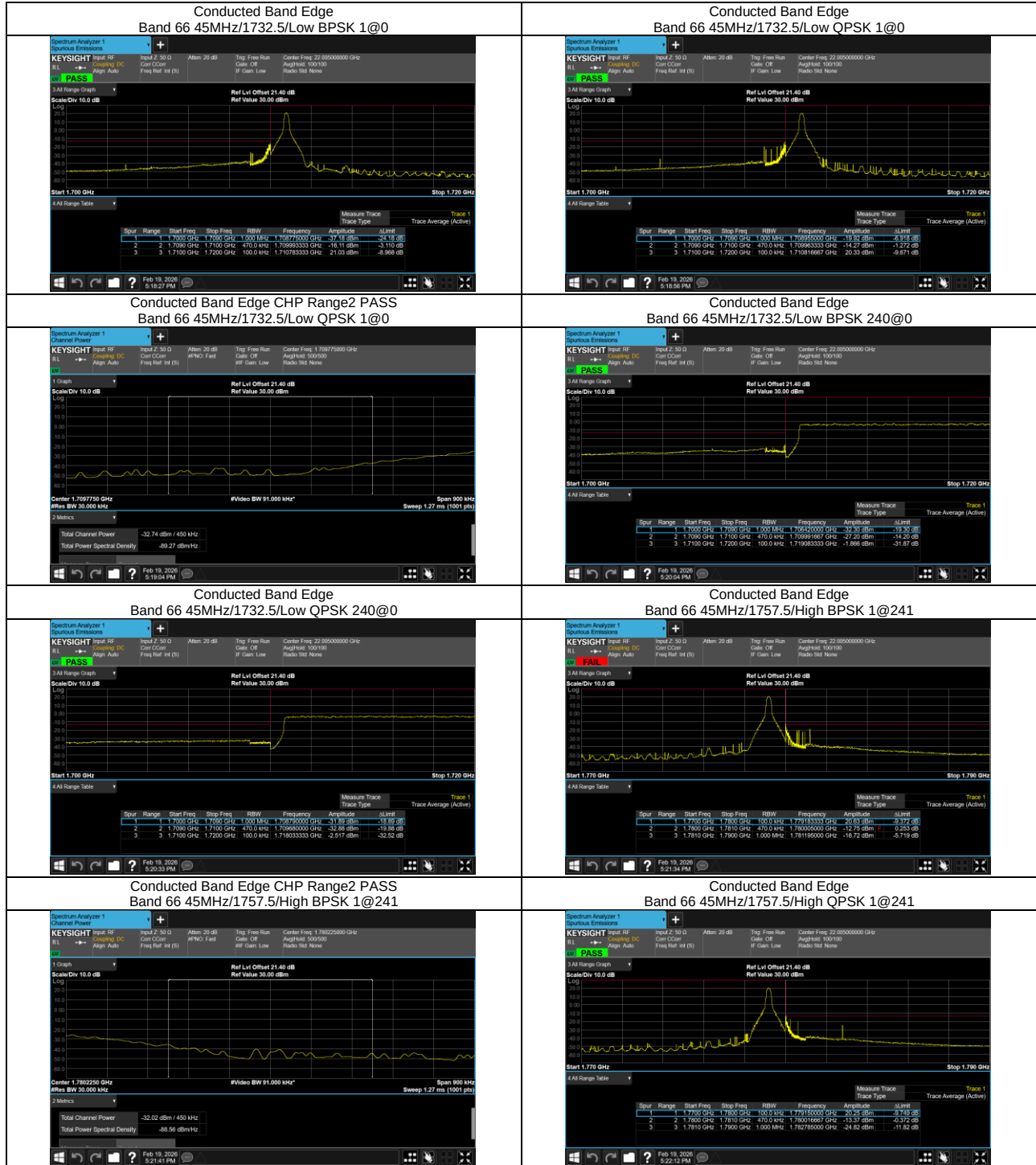
NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Result	Verdict
66	15	5	342500	1712.5	DFT-s-OFDM BPSK	1@0	See graph	PASS
66	15	5	342500	1712.5	DFT-s-OFDM QPSK	1@0	See graph	PASS
66	15	5	342500	1712.5	DFT-s-OFDM BPSK	25@0	See graph	PASS
66	15	5	342500	1712.5	DFT-s-OFDM QPSK	25@0	See graph	PASS
66	15	5	355500	1777.5	DFT-s-OFDM BPSK	1@24	See graph	PASS
66	15	5	355500	1777.5	DFT-s-OFDM QPSK	1@24	See graph	PASS
66	15	5	355500	1777.5	DFT-s-OFDM BPSK	25@0	See graph	PASS
66	15	5	355500	1777.5	DFT-s-OFDM QPSK	25@0	See graph	PASS
66	15	25	344500	1722.5	DFT-s-OFDM BPSK	1@0	See graph	PASS
66	15	25	344500	1722.5	DFT-s-OFDM QPSK	1@0	See graph	PASS
66	15	25	344500	1722.5	DFT-s-OFDM BPSK	128@0	See graph	PASS
66	15	25	344500	1722.5	DFT-s-OFDM QPSK	128@0	See graph	PASS
66	15	25	353500	1767.5	DFT-s-OFDM BPSK	1@132	See graph	PASS
66	15	25	353500	1767.5	DFT-s-OFDM QPSK	1@132	See graph	PASS
66	15	25	353500	1767.5	DFT-s-OFDM BPSK	128@0	See graph	PASS
66	15	25	353500	1767.5	DFT-s-OFDM QPSK	128@0	See graph	PASS
66	15	45	346500	1732.5	DFT-s-OFDM BPSK	1@0	See graph	PASS
66	15	45	346500	1732.5	DFT-s-OFDM QPSK	1@0	See graph	PASS
66	15	45	346500	1732.5	DFT-s-OFDM BPSK	240@0	See graph	PASS
66	15	45	346500	1732.5	DFT-s-OFDM QPSK	240@0	See graph	PASS
66	15	45	351500	1757.5	DFT-s-OFDM BPSK	1@241	See graph	PASS
66	15	45	351500	1757.5	DFT-s-OFDM QPSK	1@241	See graph	PASS
66	15	45	351500	1757.5	DFT-s-OFDM BPSK	240@0	See graph	PASS
66	15	45	351500	1757.5	DFT-s-OFDM QPSK	240@0	See graph	PASS

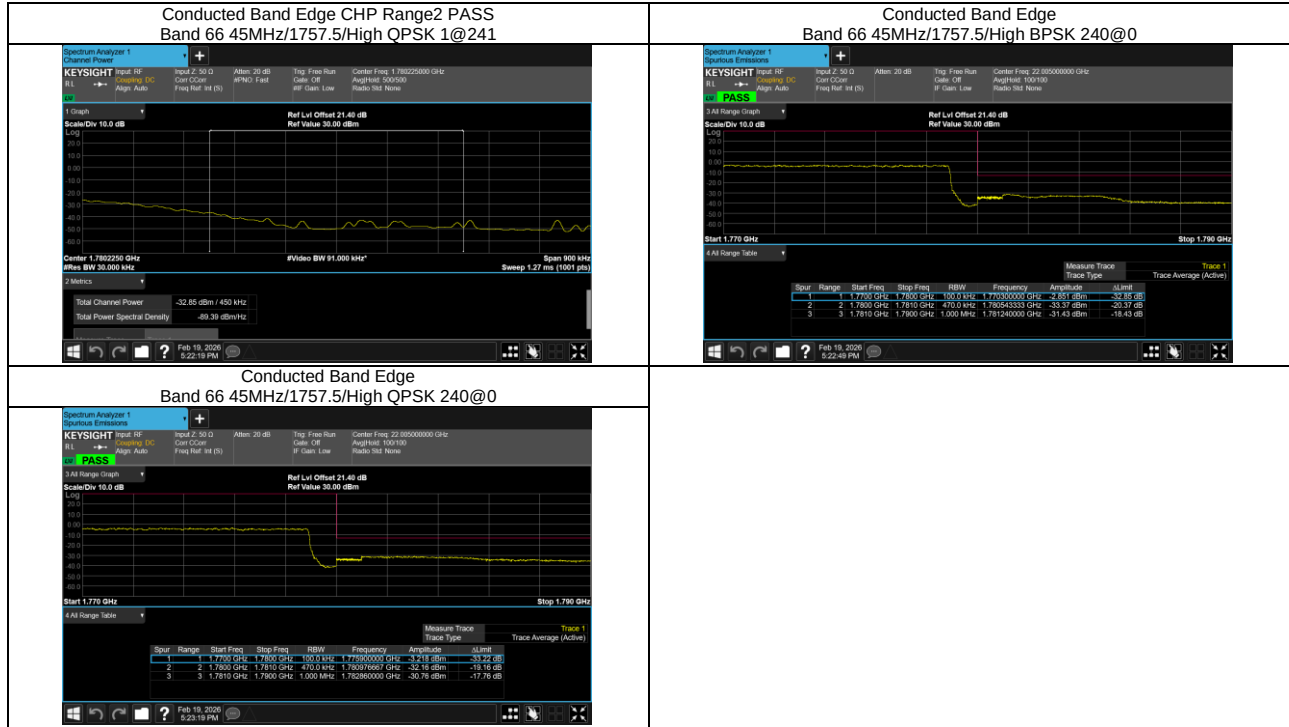


Test Graphs









Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Jake	Temperature :	21~25℃
		Relative Humidity :	51~53%

Note: Pre-scanned harmonic for the different antenna combinations, we choose the worst antenna mode to perform final test.

n2 SA / NR 40MHz / QPSK(ANT0)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3720	-53.90	-13	-40.90	-66.16	2.64	14.90	H
	5580	-54.81	-13	-41.81	-66.67	2.94	14.80	H
	7455	-52.05	-13	-39.05	-61.82	3.39	13.16	H
	3720	-52.01	-13	-39.01	-64.27	2.64	14.90	V
	5580	-55.58	-13	-42.58	-67.44	2.94	14.80	V
	7455	-52.02	-13	-39.02	-61.79	3.39	13.16	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_4A_n2A / LTE 10MHz + NR 40MHz / QPSK (ANT0+4)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3720	-55.60	-13	-42.60	-67.86	2.64	14.90	H
	5580	-55.25	-13	-42.25	-67.11	2.94	14.80	H
	7455	-52.25	-13	-39.25	-62.02	3.39	13.16	H
	3720	-55.59	-13	-42.59	-67.85	2.64	14.90	V
	5580	-55.30	-13	-42.30	-67.16	2.94	14.80	V
	7455	-52.08	-13	-39.08	-61.85	3.39	13.16	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_7A_n2A / LTE 10MHz + NR 40MHz / QPSK (ANT1+4) / n2 PA Reference Designator								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3720	-55.22	-13	-42.22	-67.48	2.64	14.90	H
	5580	-54.87	-13	-41.87	-66.73	2.94	14.80	H
	7455	-51.85	-13	-38.85	-61.62	3.39	13.16	H
	3720	-55.39	-13	-42.39	-67.65	2.64	14.90	V
	5580	-54.63	-13	-41.63	-66.49	2.94	14.80	V
	7455	-52.07	-13	-39.07	-61.84	3.39	13.16	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

n26 SA / NR 20MHz / QPSK(ANT0)								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1656	-60.03	-13	-47.03	-67.00	1.58	10.70	H
	2480	-58.77	-13	-45.77	-67.02	2.102	12.50	H
	3312	-57.76	-13	-44.76	-66.65	2.856	13.90	H
	1656	-57.15	-13	-44.15	-64.12	1.58	10.70	V
	2480	-56.67	-13	-43.67	-64.92	2.10	12.50	V
	3312	-58.02	-13	-45.02	-66.91	2.86	13.90	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_2A_n5A / LTE 10MHz + NR 20MHz / QPSK (ANT0+4)								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1656	-62.52	-13	-49.52	-69.49	1.58	10.70	H
	2472	-55.15	-13	-42.15	-63.40	2.102	12.50	H
	3312	-57.70	-13	-44.70	-66.59	2.856	13.90	H
	1656	-61.10	-13	-48.10	-68.07	1.58	10.70	V
	2472	-53.25	-13	-40.25	-61.50	2.10	12.50	V
	3312	-57.72	-13	-44.72	-66.61	2.86	13.90	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

n66 SA / NR 45MHz / QPSK(ANT0)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3450	-52.18	-13	-39.18	-62.92	2.604	13.34	H
	5175	-54.90	-13	-41.90	-65.41	3.011	13.52	H
	6900	-54.15	-13	-41.15	-64.35	3.271	13.47	H
	3450	-52.51	-13	-39.51	-63.25	2.604	13.34	V
	5175	-54.44	-13	-41.44	-64.95	3.011	13.52	V
	6900	-53.65	-13	-40.65	-63.85	3.271	13.47	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_7A_n66A / LTE 10MHz + NR 45MHz / QPSK (ANT1+4) / n66 PA Reference Designator								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3450	-57.21	-13	-44.21	-67.95	2.604	13.34	H
	5175	-54.39	-13	-41.39	-64.90	3.011	13.52	H
	6900	-53.74	-13	-40.74	-63.94	3.271	13.47	H
	3450	-57.79	-13	-44.79	-68.53	2.604	13.34	V
	5175	-54.42	-13	-41.42	-64.93	3.011	13.52	V
	6900	-53.73	-13	-40.73	-63.93	3.271	13.47	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.