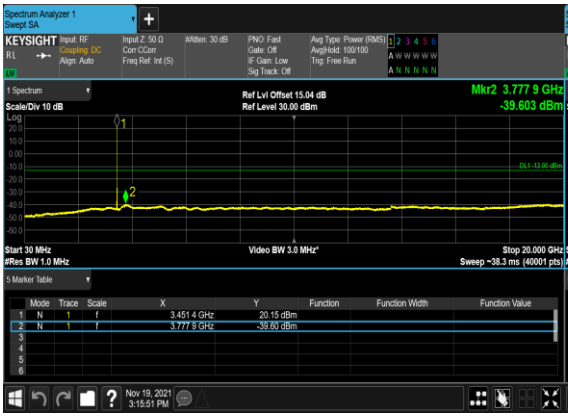
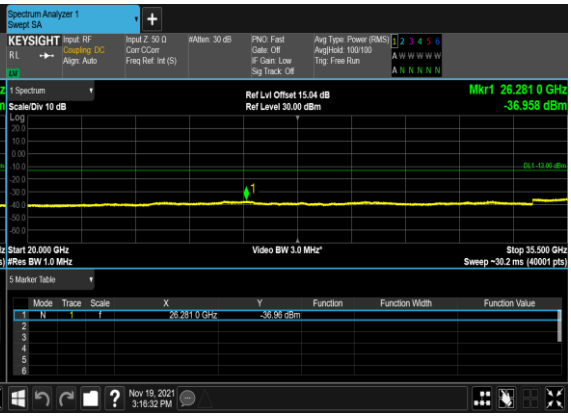
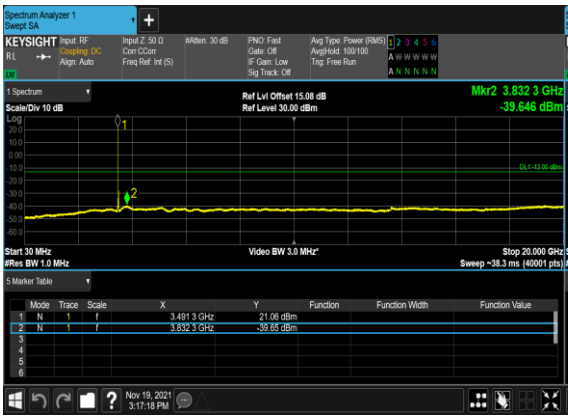
N78(20M)_CP-OFDM_QPSK_Edge_1RB_Left_Low_CH



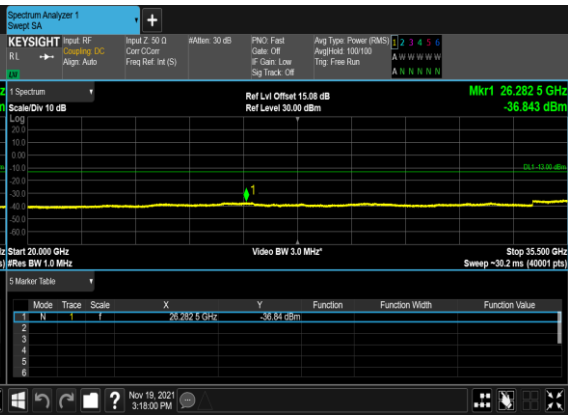
N78(20M)_CP-OFDM_QPSK_Edge_1RB_Left_Low_CH



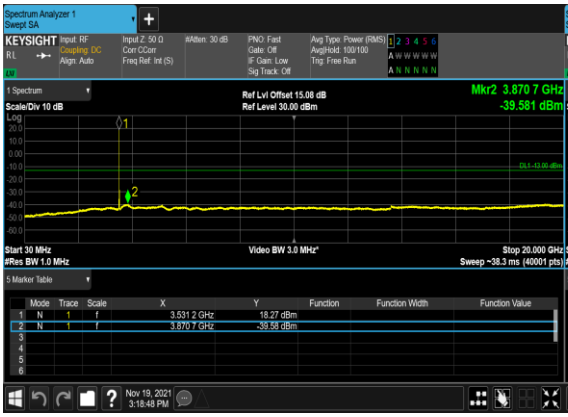
N78(20M)_CP-OFDM_QPSK_Edge_1RB_Left_Mid_CH



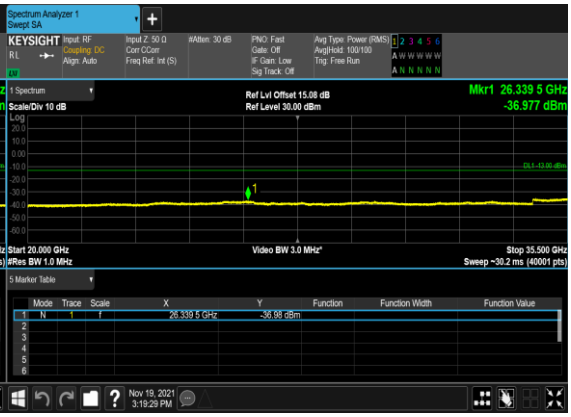
N78(20M)_CP-OFDM_QPSK_Edge_1RB_Left_Mid_CH



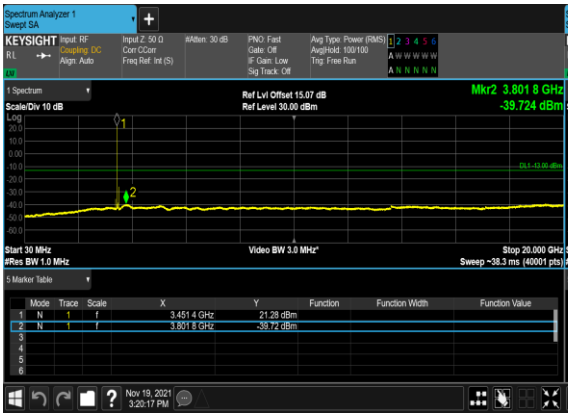
N78(20M)_CP-OFDM_QPSK_Edge_1RB_Left_High_CH



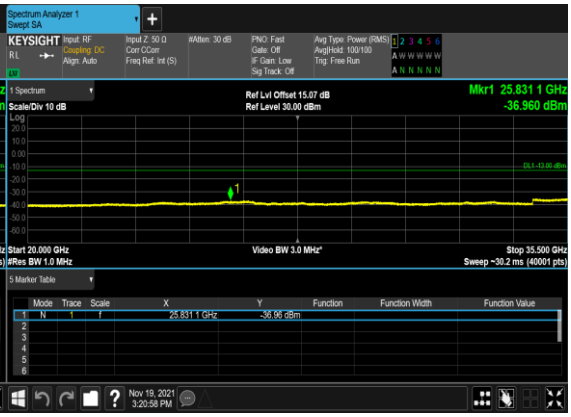
N78(20M)_CP-OFDM_QPSK_Edge_1RB_Left_High_CH



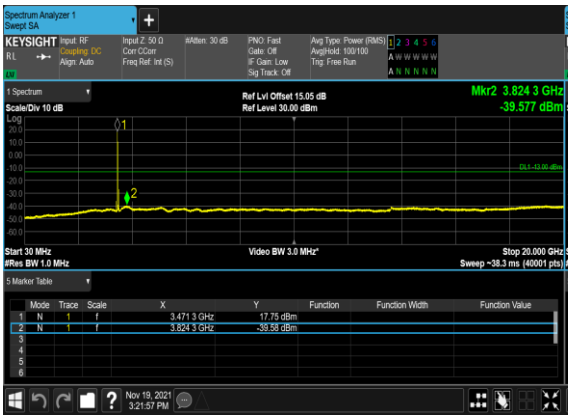
N78(60M)_CP-OFDM_QPSK_Edge_1RB_Left_Low_CH



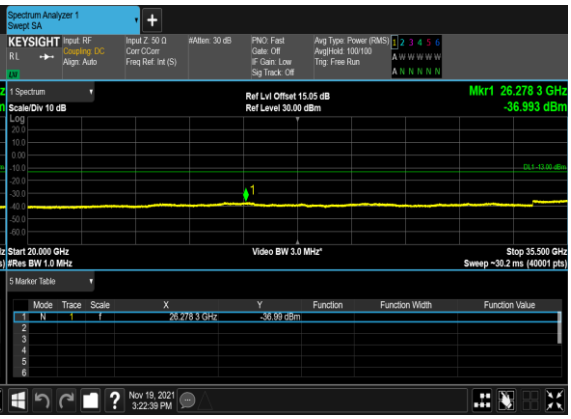
N78(60M)_CP-OFDM_QPSK_Edge_1RB_Left_Low_CH



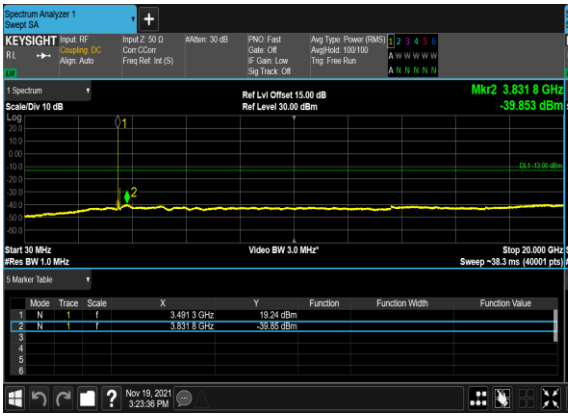
N78(60M)_CP-OFDM_QPSK_Edge_1RB_Left_Mid_CH



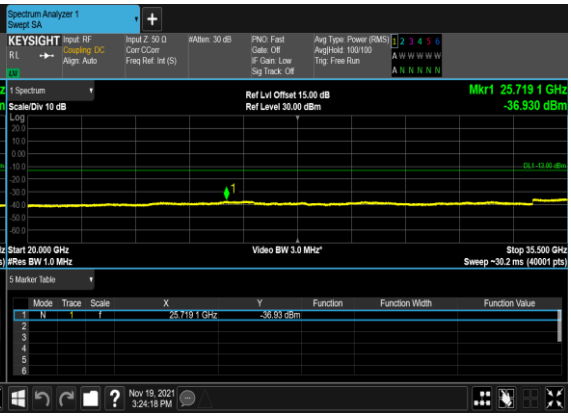
N78(60M)_CP-OFDM_QPSK_Edge_1RB_Left_Mid_CH



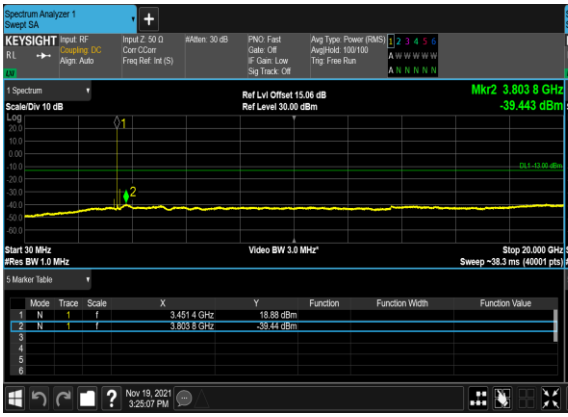
N78(60M)_CP-OFDM_QPSK_Edge_1RB_Left_High_CH



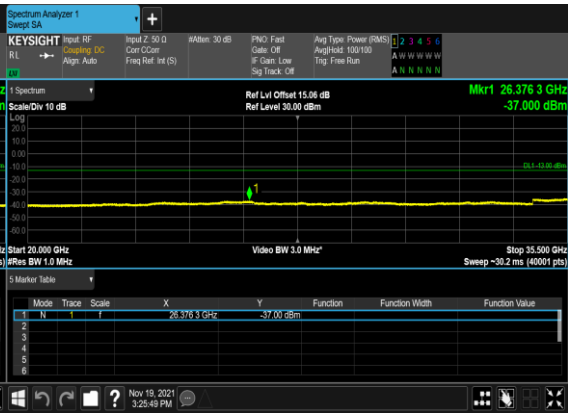
N78(60M)_CP-OFDM_QPSK_Edge_1RB_Left_High_CH



N78(100M)_CP-OFDM_QPSK_Edge_1RB_Left_Mid_CH



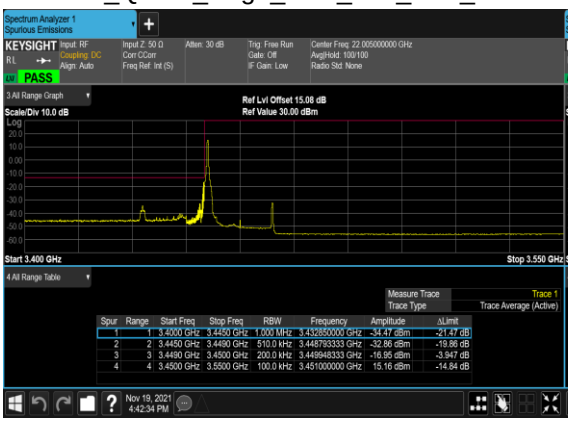
N78(100M)_CP-OFDM_QPSK_Edge_1RB_Left_Mid_CH



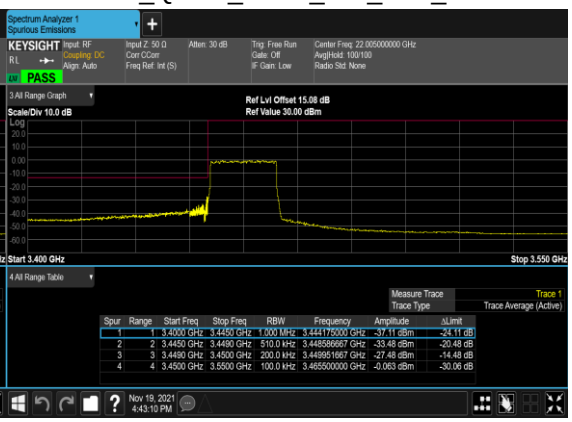
Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	30	20	630668	3460.02	CP-OFDM QPSK	1@0	see graph	**PASS**
78	30	20	630668	3460.02	CP-OFDM QPSK	51@0	see graph	**PASS**
78	30	20	636000	3540.0	CP-OFDM QPSK	1@50	see graph	**PASS**
78	30	20	636000	3540.0	CP-OFDM QPSK	51@0	see graph	**PASS**
78	30	60	632000	3480.0	CP-OFDM QPSK	1@0	see graph	**PASS**
78	30	60	632000	3480.0	CP-OFDM QPSK	162@0	see graph	**PASS**
78	30	60	634666	3519.99	CP-OFDM QPSK	1@161	see graph	**PASS**
78	30	60	634666	3519.99	CP-OFDM QPSK	162@0	see graph	**PASS**
78	30	100	633334	3500.01	CP-OFDM QPSK	1@0	see graph	**PASS**
78	30	100	633334	3500.01	CP-OFDM QPSK	1@272	see graph	**PASS**
78	30	100	633334	3500.01	CP-OFDM QPSK	273@0	see graph	**PASS**

N78(20M)_CP-OFDM_QPSK_Edge_1RB_Left_Low_CH

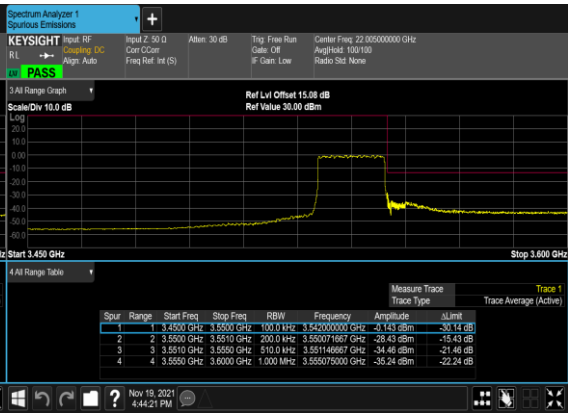


N78(20M)_CP-OFDM_QPSK_Outer_Full_Low_CH

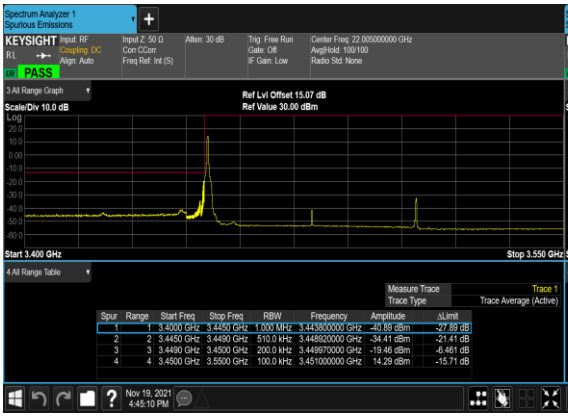


N78(20M)_CP-OFDM_QPSK_Edge_1RB_Right_High_CH

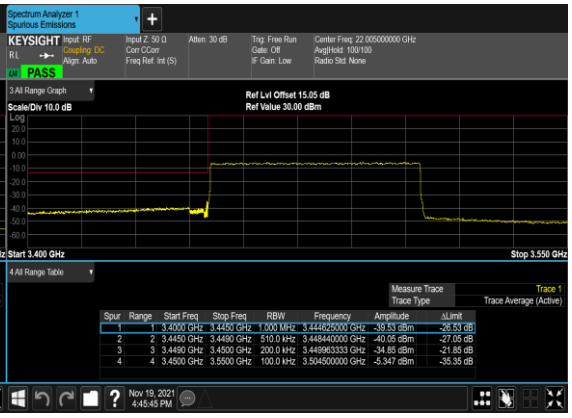
N78(20M)_CP-OFDM_QPSK_Outer_Full_High_CH



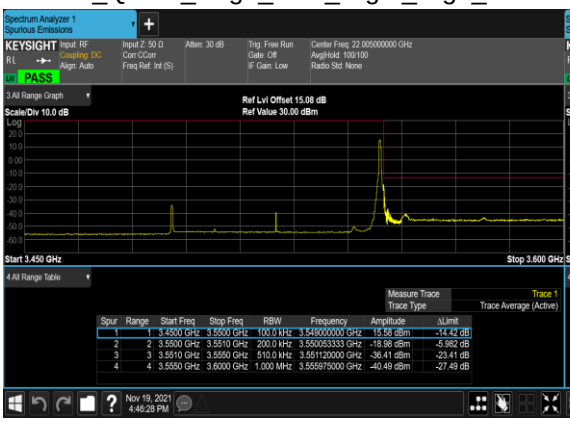
N78(60M)_CP-OFDM_QPSK_Edge_1RB_Left_Low_CH



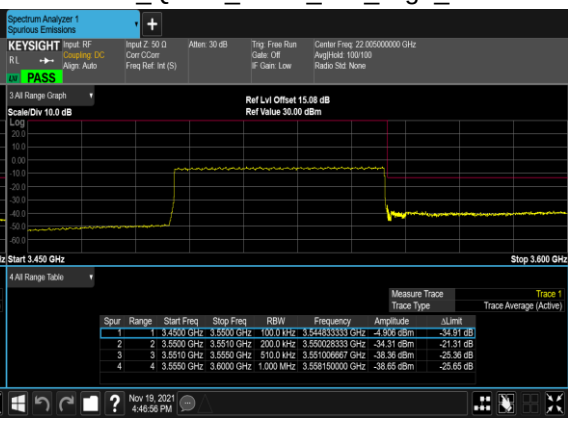
N78(60M)_CP-OFDM_QPSK_Outer_Full_Low_CH



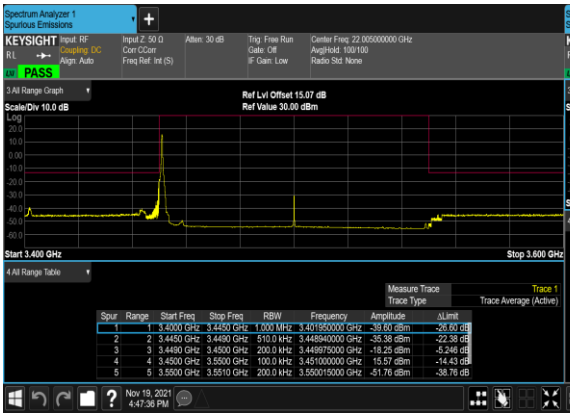
N78(60M)_CP-OFDM_QPSK_Edge_1RB_Right_High_CH



N78(60M)_CP-OFDM_QPSK_Outer_Full_High_CH

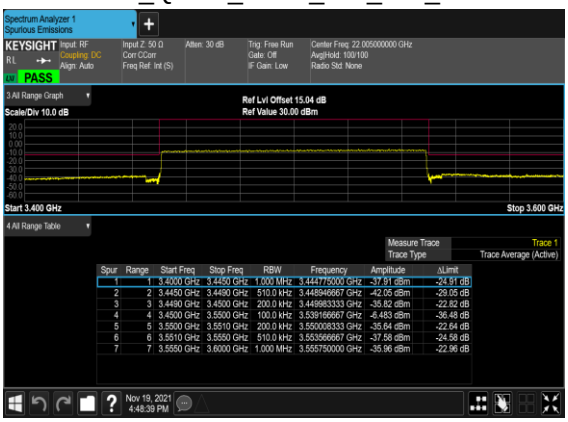


N78(100M)_CP-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N78(100M)_CP-OFDM_QPSK_Edge_1RB_Right_Mid_CH

N78(100M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Chris Chen	Temperature :	22~23℃
		Relative Humidity :	41~42%

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

SA n77 / NR 100MHz / QPSK / ANT10								
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	6906	-64.10	-13	-51.10	-74.58	2.76	13.24	H
	10350	-49.76	-13	-36.76	-59.35	3.42	13.01	H
	13806	-54.25	-13	-41.25	-63.86	3.83	13.44	H
	6906	-64.49	-13	-51.49	-74.93	2.80	13.24	V
	10350	-53.81	-13	-40.81	-63.36	3.46	13.01	V
	13806	-58.51	-13	-45.51	-68.07	3.88	13.44	V

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

n77 UL MIMO / NR 30MHz / QPSK / ANT10+11								
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	6906	-62.73	-13	-49.73	-73.21	2.76	13.24	H
	10350	-55.79	-13	-42.79	-65.38	3.42	13.01	H
	13806	-58.50	-13	-45.50	-68.11	3.83	13.44	H
	6906	-64.67	-13	-51.67	-75.11	2.80	13.24	V
	10350	-57.68	-13	-44.68	-67.23	3.46	13.01	V
	13806	-59.40	-13	-46.40	-68.96	3.88	13.44	V

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

SA n78 / NR 40MHz / QPSK / ANT10								
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	6906	-64.66	-13	-51.66	-75.14	2.76	13.24	H
	10350	-53.32	-13	-40.32	-62.91	3.42	13.01	H
	13806	-58.91	-13	-45.91	-68.52	3.83	13.44	H
	6906	-64.55	-13	-51.55	-74.99	2.80	13.24	V
	10350	-54.91	-13	-41.91	-64.46	3.46	13.01	V
	13806	-59.33	-13	-46.33	-68.89	3.88	13.44	V

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

n78 UL MIMO / NR 90MHz / QPSK / ANT10+11								
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	6912	-64.22	-13	-51.22	-74.70	2.76	13.24	H
	10350	-54.50	-13	-41.50	-64.09	3.42	13.01	H
	13806	-54.17	-13	-41.17	-63.78	3.83	13.44	H
	6912	-64.11	-13	-51.11	-74.55	2.80	13.24	V
	10350	-57.56	-13	-44.56	-67.11	3.46	13.01	V
	13806	-57.53	-13	-44.53	-67.09	3.88	13.44	V

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

EN-DC_2A_n78A / LTE 20MHz + NR 40MHz / QPSK / ANT0(LTE) & ANT10(NR)								
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	6912	-64.16	-13	-51.16	-74.64	2.76	13.24	H
	10356	-53.71	-13	-40.71	-63.30	3.42	13.01	H
	13806	-57.24	-13	-44.24	-66.85	3.83	13.44	H
	6912	-63.93	-13	-50.93	-74.37	2.80	13.24	V
	10356	-54.93	-13	-41.93	-64.48	3.46	13.01	V
	13806	-57.28	-13	-44.28	-66.84	3.88	13.44	V

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

EN-DC_5A_n78A / LTE 10MHz + NR 40MHz / QPSK / ANT0(LTE) & ANT10(NR)								
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	6912	-64.57	-13	-51.57	-75.05	2.76	13.24	H
	10356	-53.61	-13	-40.61	-63.20	3.42	13.01	H
	13806	-55.58	-13	-42.58	-65.19	3.83	13.44	H
	6912	-64.40	-13	-51.40	-74.84	2.80	13.24	V
	10356	-52.24	-13	-39.24	-61.79	3.46	13.01	V
	13806	-57.39	-13	-44.39	-66.95	3.88	13.44	V

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

EN-DC_7A_n78A / LTE 20MHz + NR 40MHz / QPSK / ANT0(LTE) & ANT10(NR)								
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	6912	-63.96	-13	-50.96	-74.44	2.76	13.24	H
	10356	-51.35	-13	-38.35	-60.94	3.42	13.01	H
	13806	-53.85	-13	-40.85	-63.46	3.83	13.44	H
	6912	-64.34	-13	-51.34	-74.78	2.80	13.24	V
	10356	-52.24	-13	-39.24	-61.79	3.46	13.01	V
	13806	-58.03	-13	-45.03	-67.59	3.88	13.44	V

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

EN-DC_38A_n78A / LTE 20MHz + NR 40MHz / QPSK / ANT0(LTE) & ANT10(NR)								
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	6912	-64.63	-13	-51.63	-75.11	2.76	13.24	H
	10356	-52.09	-13	-39.09	-61.68	3.42	13.01	H
	13806	-53.08	-13	-40.08	-62.69	3.83	13.44	H
	6912	-64.56	-13	-51.56	-75.00	2.80	13.24	V
	10356	-57.66	-13	-44.66	-67.21	3.46	13.01	V
	13806	-55.35	-13	-42.35	-64.91	3.88	13.44	V

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

EN-DC_41A_n78A / LTE 20MHz + NR 40MHz / QPSK / ANT0(LTE) & ANT10(NR)								
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	6912	-64.15	-13	-51.15	-74.63	2.76	13.24	H
	10356	-53.79	-13	-40.79	-63.38	3.42	13.01	H
	13806	-53.60	-13	-40.60	-63.21	3.83	13.44	H
	6912	-64.26	-13	-51.26	-74.70	2.80	13.24	V
	10356	-58.58	-13	-45.58	-68.13	3.46	13.01	V
	13806	-55.32	-13	-42.32	-64.88	3.88	13.44	V

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

EN-DC_66A_n78A / LTE 20MHz + NR 40MHz / QPSK / ANT0(LTE) & ANT10(NR)								
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	6912	-64.23	-13	-51.23	-74.71	2.76	13.24	H
	10356	-52.34	-13	-39.34	-61.93	3.42	13.01	H
	13806	-56.90	-13	-43.90	-66.51	3.83	13.44	H
	6912	-64.30	-13	-51.30	-74.74	2.80	13.24	V
	10356	-55.17	-13	-42.17	-64.72	3.46	13.01	V
	13806	-53.80	-13	-40.80	-63.36	3.88	13.44	V
	6912	-64.23	-13	-51.23	-74.71	2.76	13.24	H

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