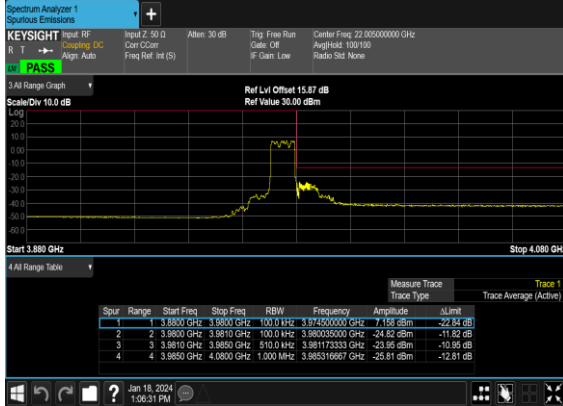
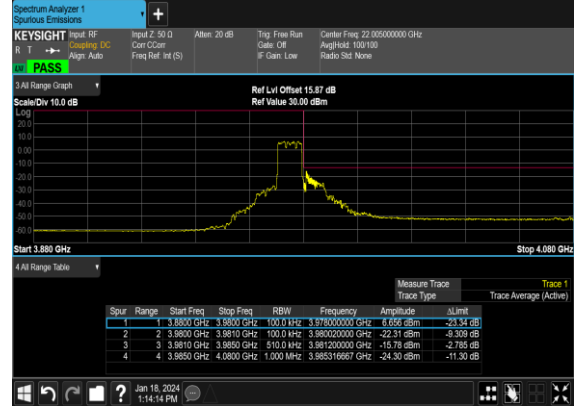


N77(10M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



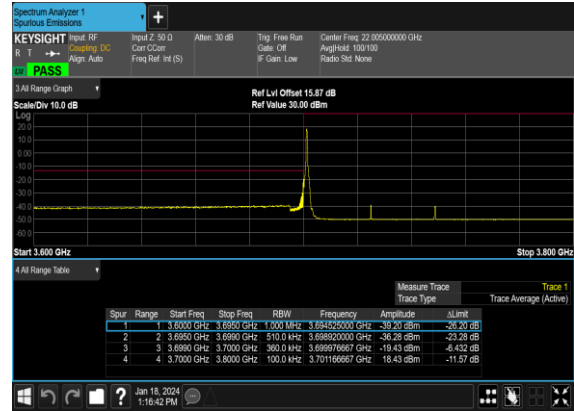
N77(10M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH



N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



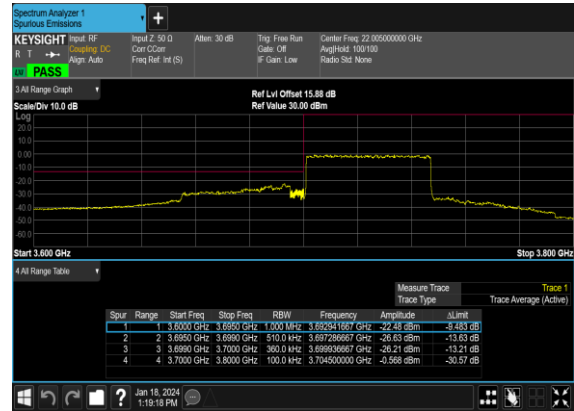
N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



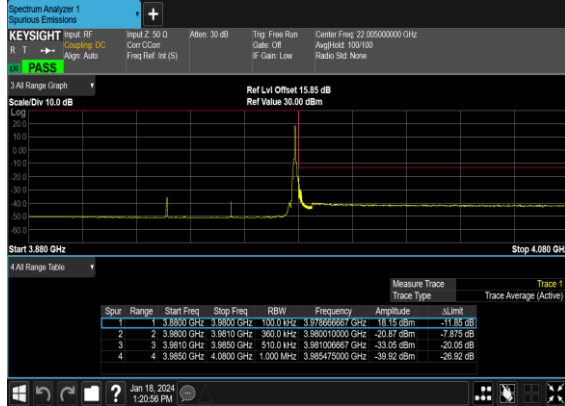
N77(50M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



N77(50M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



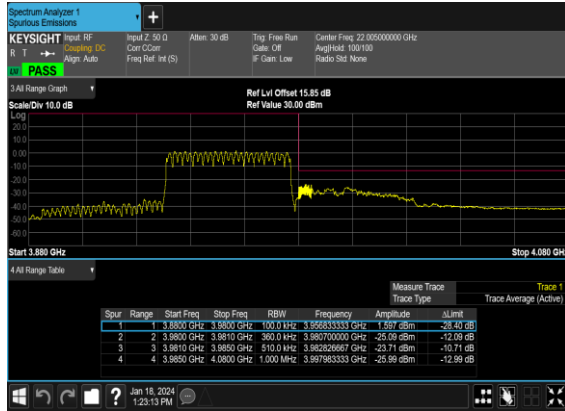
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



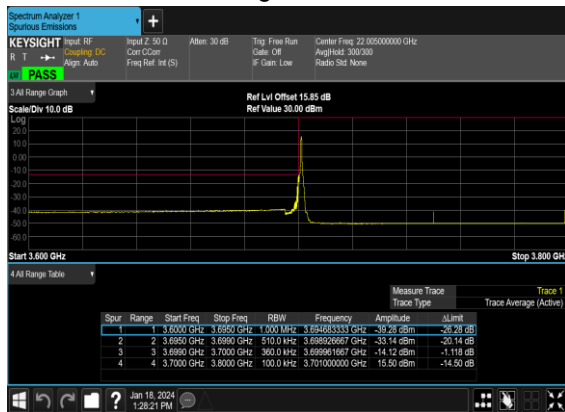
N77(50M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



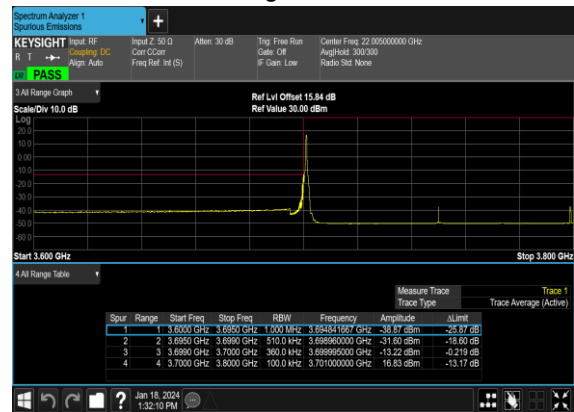
N77(50M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



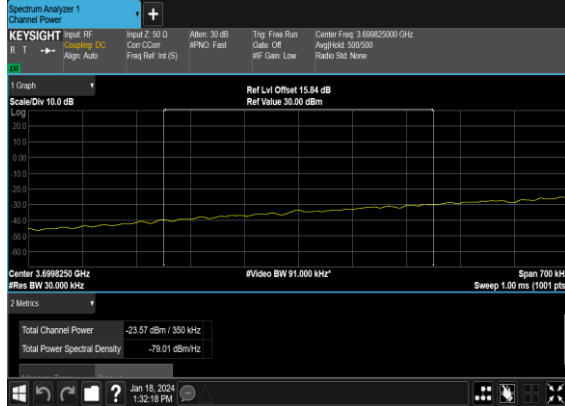
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



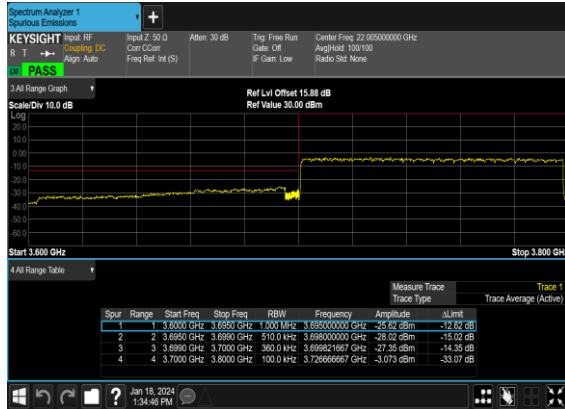
N77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH_CHP_PASS



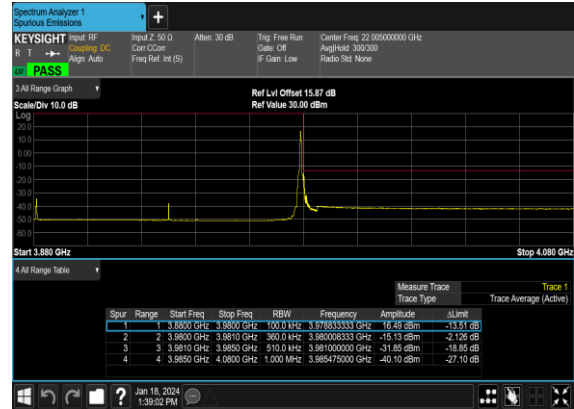
N77(100M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



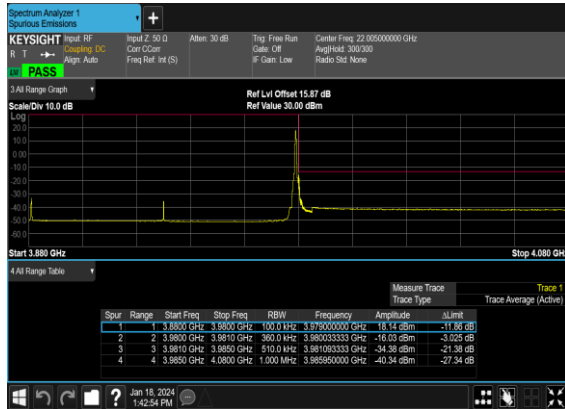
N77(100M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



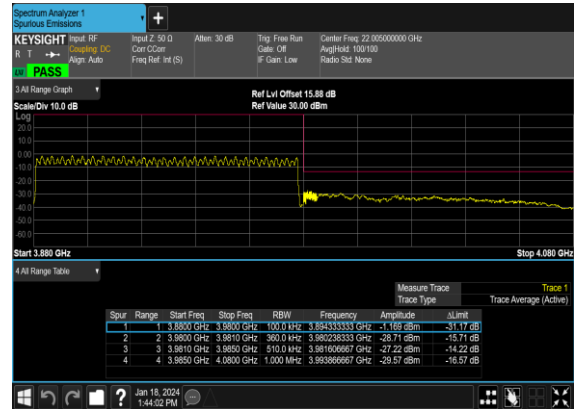
N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



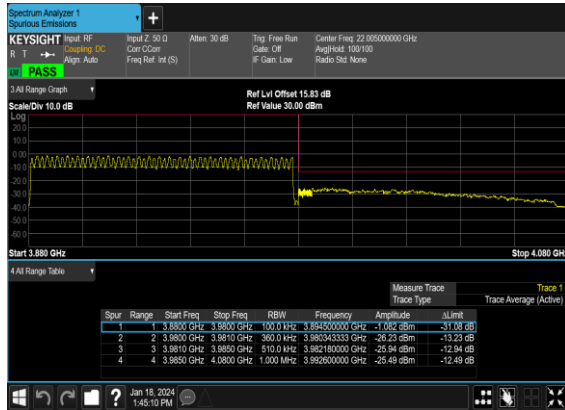
N77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



N77(100M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



N77(100M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



Note "CHP" means channel power integration method.

FR1 N78 (ANT4)

Transmitter Conducted Output Power And EIRP, (G_T - L_C)=-1.5dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
78	30	10	647000	3705	DFT-s-OFDM QPSK	1@1	25.3	23.8	0.2399
78	30	10	647000	3705	DFT-s-OFDM 16 QAM	1@1	25.18	23.68	0.2333
78	30	10	650000	3750	DFT-s-OFDM QPSK	1@1	25.46	23.96	0.2489
78	30	10	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.39	23.89	0.2449
78	30	10	653000	3795	DFT-s-OFDM QPSK	1@1	25.36	23.86	0.2432
78	30	10	653000	3795	DFT-s-OFDM 16 QAM	1@1	25.22	23.72	0.2355
78	30	15	647168	3707.52	DFT-s-OFDM QPSK	1@1	25.49	23.99	0.2506
78	30	15	647168	3707.52	DFT-s-OFDM 16 QAM	1@1	25.43	23.93	0.2472
78	30	15	650000	3750	DFT-s-OFDM QPSK	1@1	25.61	24.11	0.2576
78	30	15	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.59	24.09	0.2564
78	30	15	652832	3792.48	DFT-s-OFDM QPSK	1@1	25.62	24.12	0.2582
78	30	15	652832	3792.48	DFT-s-OFDM 16 QAM	1@1	25.52	24.02	0.2523
78	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@1	25.58	24.08	0.2559
78	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@1	25.44	23.94	0.2477
78	30	20	650000	3750	DFT-s-OFDM QPSK	1@1	25.62	24.12	0.2582
78	30	20	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.56	24.06	0.2547
78	30	20	652666	3789.99	DFT-s-OFDM QPSK	1@1	25.6	24.1	0.2570
78	30	20	652666	3789.99	DFT-s-OFDM 16 QAM	1@1	25.48	23.98	0.2500
78	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@1	25.56	24.06	0.2547
78	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	1@1	25.64	24.14	0.2594
78	30	30	650000	3750	DFT-s-OFDM QPSK	1@1	25.76	24.26	0.2667
78	30	30	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.8	24.3	0.2692
78	30	30	652332	3784.98	DFT-s-OFDM QPSK	1@1	25.72	24.22	0.2642
78	30	30	652332	3784.98	DFT-s-OFDM 16 QAM	1@1	25.78	24.28	0.2679
78	30	40	648000	3720	DFT-s-OFDM QPSK	1@1	25.75	24.25	0.2661
78	30	40	648000	3720	DFT-s-OFDM 16 QAM	1@1	25.7	24.2	0.2630
78	30	40	650000	3750	DFT-s-OFDM QPSK	1@1	25.75	24.25	0.2661
78	30	40	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.81	24.31	0.2698
78	30	40	652000	3780	DFT-s-OFDM QPSK	1@1	25.7	24.2	0.2630

78	30	40	652000	3780	DFT-s-OFDM 16 QAM	1@1	25.69	24.19	0.2624
78	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@1	25.37	23.87	0.2438
78	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@1	25.33	23.83	0.2415
78	30	50	650000	3750	DFT-s-OFDM QPSK	1@1	25.49	23.99	0.2506
78	30	50	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.45	23.95	0.2483
78	30	50	651666	3774.99	DFT-s-OFDM QPSK	1@1	25.58	24.08	0.2559
78	30	50	651666	3774.99	DFT-s-OFDM 16 QAM	1@1	25.54	24.04	0.2535
78	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@1	25.32	23.82	0.2410
78	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	1@1	25.29	23.79	0.2393
78	30	60	650000	3750	DFT-s-OFDM QPSK	1@1	25.28	23.78	0.2388
78	30	60	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.32	23.82	0.2410
78	30	60	651332	3769.98	DFT-s-OFDM QPSK	1@1	25.39	23.89	0.2449
78	30	60	651332	3769.98	DFT-s-OFDM 16 QAM	1@1	25.42	23.92	0.2466
78	30	70	649000	3735	DFT-s-OFDM QPSK	1@1	25.17	23.67	0.2328
78	30	70	649000	3735	DFT-s-OFDM 16 QAM	1@1	25.23	23.73	0.2360
78	30	70	650000	3750	DFT-s-OFDM QPSK	1@1	25.21	23.71	0.2350
78	30	70	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.33	23.83	0.2415
78	30	70	651000	3765	DFT-s-OFDM QPSK	1@1	25.27	23.77	0.2382
78	30	70	651000	3765	DFT-s-OFDM 16 QAM	1@1	25.31	23.81	0.2404
78	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@1	25.17	23.67	0.2328
78	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	1@1	25.22	23.72	0.2355
78	30	80	650000	3750	DFT-s-OFDM QPSK	1@1	25.21	23.71	0.2350
78	30	80	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.26	23.76	0.2377
78	30	80	650666	3759.99	DFT-s-OFDM QPSK	1@1	25.22	23.72	0.2355
78	30	80	650666	3759.99	DFT-s-OFDM 16 QAM	1@1	25.27	23.77	0.2382
78	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@1	25.09	23.59	0.2286
78	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@1	25.16	23.66	0.2323
78	30	90	650000	3750	DFT-s-OFDM QPSK	1@1	25.23	23.73	0.2360
78	30	90	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.2	23.7	0.2344
78	30	90	650332	3754.98	DFT-s-OFDM QPSK	1@1	25.15	23.65	0.2317
78	30	90	650332	3754.98	DFT-s-OFDM 16 QAM	1@1	25.23	23.73	0.2360
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	135@67	25.31	23.81	0.2404
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.89	24.39	0.2748
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@271	25.28	23.78	0.2388
78	30	100	650000	3750	DFT-s-OFDM QPSK	135@67	25.32	23.82	0.2410

78	30	100	650000	3750	DFT-s-OFDM QPSK	1@1	25.09	23.59	0.2286
78	30	100	650000	3750	DFT-s-OFDM QPSK	1@271	25.15	23.65	0.2317
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	135@67	25.31	23.81	0.2404
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.03	23.53	0.2254
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@271	25.08	23.58	0.2280
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	135@67	24.28	22.78	0.1897
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@1	24.07	22.57	0.1807
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@271	24.13	22.63	0.1832
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	135@67	22.37	20.87	0.1222
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@1	22.09	20.59	0.1146
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@271	22.06	20.56	0.1138
78	30	100	650000	3750	CP-OFDM QPSK	137@68	25.28	23.78	0.2388
78	30	100	650000	3750	CP-OFDM QPSK	1@1	25.06	23.56	0.2270
78	30	100	650000	3750	CP-OFDM QPSK	1@271	25.05	23.55	0.2265



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Qingsheng He	Temperature :	22~25°C
		Relative Humidity :	48~52%

RSE pre-scanned harmonic for different antennas, choose the worst antenna perform final test and record in the report.

n77 SA / NR 100MHz / QPSK(ANT4)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7404	-41.24	-13	-28.24	-38.69	-44.57	8.25	11.58	H
	11112	-52.64	-13	-39.64	-57.10	-54.19	10.45	12.00	H
	14808	-49.86	-13	-36.86	-56.43	-51.57	11.74	13.45	H
	7404	-47.93	-13	-34.93	-45.42	-51.26	8.25	11.58	V
	11112	-53.43	-13	-40.43	-57.6	-54.98	10.45	12.00	V
	14808	-49.81	-13	-36.81	-56.57	-51.52	11.74	13.45	V
Middle	7584	-33.46	-13	-20.46	-30.33	-34.98	11.98	13.50	H
	11376	-49.80	-13	-36.80	-55.47	-49.80	13.60	13.60	H
	15168	-49.61	-13	-36.61	-54.78	-49.21	15.50	15.10	H
	7584	-35.23	-13	-22.23	-31.89	-36.75	11.98	13.50	V
	11376	-50.07	-13	-37.07	-55.55	-50.07	13.60	13.60	V
	15168	-49.84	-13	-36.84	-55.32	-49.44	15.50	15.10	V
Highest	7762.5	-31.54	-13	-18.54	-28.67	-34.84	8.32	11.62	H
	11652	-49.48	-13	-36.48	-55.09	-51.16	10.52	12.20	H
	15528	-47.07	-13	-34.07	-50.46	-48.77	11.85	13.55	H
	7762.5	-35.38	-13	-22.38	-32.49	-38.68	8.32	11.62	V
	11652	-49.38	-13	-36.38	-55.02	-51.06	10.52	12.20	V
	15528	-51.84	-13	-38.84	-55.45	-53.54	11.85	13.55	V

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



EN-DC_30A_n77A / LTE 10MHz + NR 100MHz / QPSK(9+4)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n77 Lowest	7402.5	-46.20	-13	-33.20	-43.65	-49.53	8.25	11.58	H
	11106	-53.19	-13	-40.19	-57.61	-54.74	10.45	12.00	H
	14805	-52.55	-13	-39.55	-59.13	-54.26	11.74	13.45	H
	7402.5	-49.53	-13	-36.53	-47.03	-52.86	8.25	11.58	V
	11106	-52.45	-13	-39.45	-56.58	-54.00	10.45	12.00	V
	14805	-50.57	-13	-37.57	-57.34	-52.28	11.74	13.45	V
LTE Band30 Lowest	4611.50	-54.85	-40	-14.85	-70.87	-61.10	6.45	12.70	H
	6916.50	-56.15	-40	-16.15	-51.54	-59.55	8.40	11.80	H
	9222.00	-52.14	-40	-12.14	-53.22	-54.49	9.65	12.00	H
	4611.50	-55.15	-40	-15.15	-71.02	-61.40	6.45	12.70	V
	6916.50	-56.09	-40	-16.09	-51.44	-59.49	8.40	11.80	V
	9222.00	-50.67	-40	-10.67	-51.33	-53.02	9.65	12.00	V
NR n77 Middle	7412.5	-45.41	-13	-32.41	-42.83	-46.93	11.98	13.50	H
	11115	-52.87	-13	-39.87	-57.34	-52.87	13.60	13.60	H
	14820	-52.56	-13	-39.56	-59.10	-52.16	15.50	15.10	H
	7412.5	-48.58	-13	-35.58	-46.04	-50.10	11.98	13.50	V
	11115	-52.13	-13	-39.13	-56.32	-52.13	13.60	13.60	V
	14820	-52.66	-13	-39.66	-59.4	-52.26	15.50	15.10	V
LTE Band30 Middle	4611.50	-52.39	-40	-12.39	-68.41	-58.64	6.45	12.70	H
	6916.50	-55.24	-40	-15.24	-50.63	-58.64	8.40	11.80	H
	9222.00	-51.50	-40	-11.50	-52.58	-53.85	9.65	12.00	H
	4611.50	-56.48	-40	-16.48	-72.35	-62.73	6.45	12.70	V
	6916.50	-56.16	-40	-16.16	-51.51	-59.56	8.40	11.80	V
	9222.00	-51.11	-40	-11.11	-51.77	-53.46	9.65	12.00	V
NR n77 Highest	7782.5	-34.36	-13	-21.36	-31.54	-37.66	8.32	11.62	H
	11673	-52.33	-13	-39.33	-57.85	-54.01	10.52	12.20	H
	15564	-55.55	-13	-42.55	-58.86	-57.25	11.85	13.55	H
	7782.5	-37.62	-13	-24.62	-34.81	-40.92	8.32	11.62	V
	11673	-52.42	-13	-39.42	-58	-54.10	10.52	12.20	V
	15564	-56.04	-13	-43.04	-59.74	-57.74	11.85	13.55	V
LTE Band30 Highest	4611.50	-53.39	-40	-13.39	-69.41	-59.64	6.45	12.70	H
	6916.50	-56.02	-40	-16.02	-51.41	-59.42	8.40	11.80	H
	9222.00	-52.39	-40	-12.39	-53.47	-54.74	9.65	12.00	H
	4611.50	-53.48	-40	-13.48	-69.35	-59.73	6.45	12.70	V
	6916.50	-56.34	-40	-16.34	-51.69	-59.74	8.40	11.80	V
	9222.00	-50.76	-40	-10.76	-51.42	-53.11	9.65	12.00	V

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