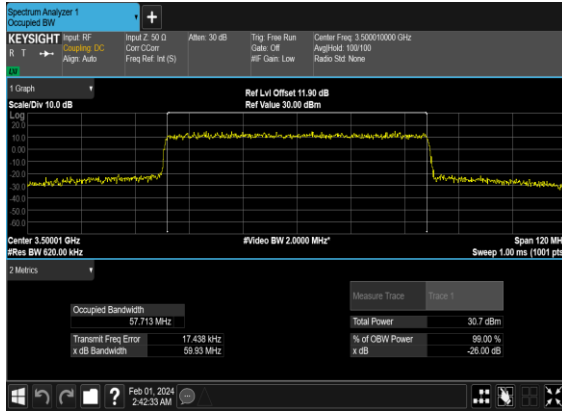
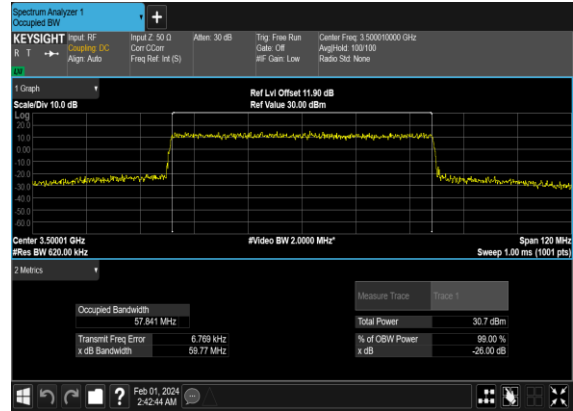


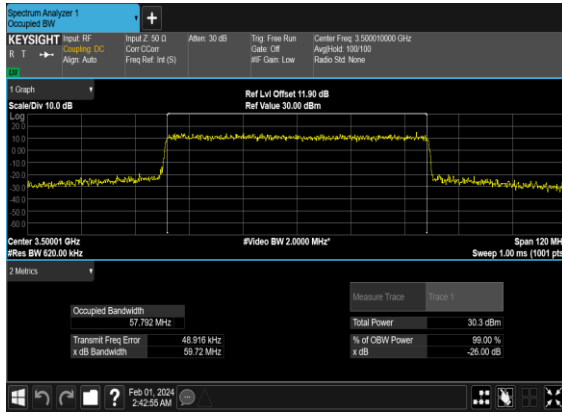
### N77(60M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



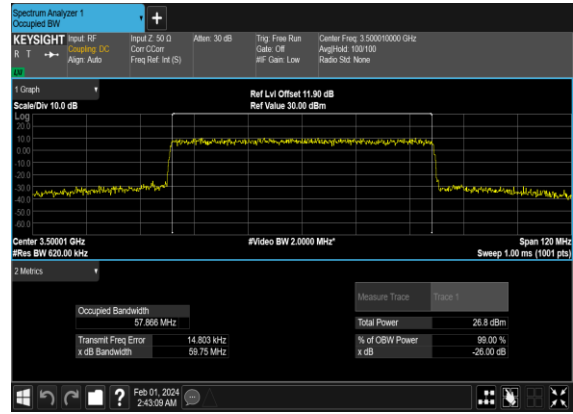
### N77(60M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



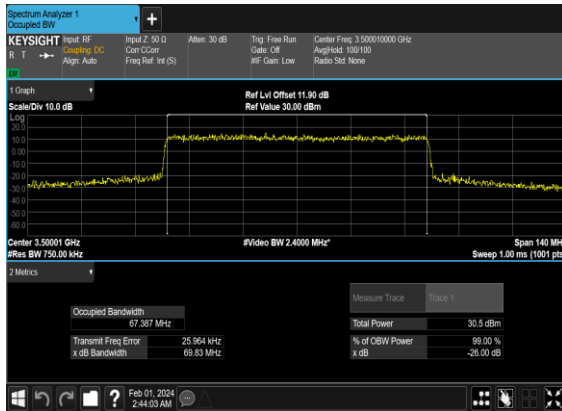
### N77(60M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH



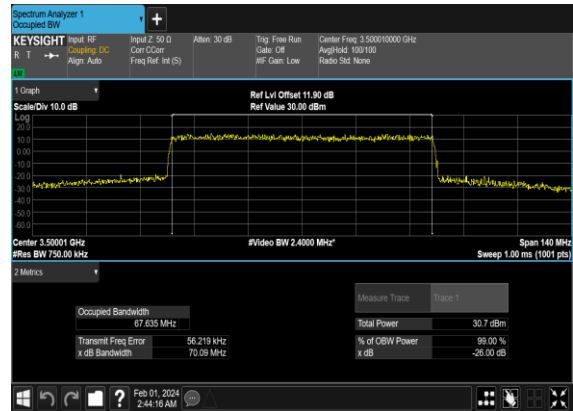
### N77(60M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH



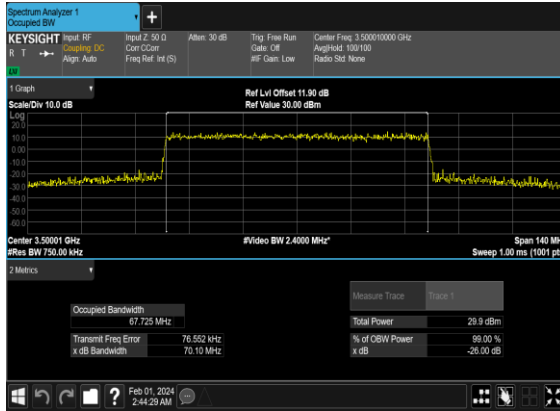
### N77(70M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



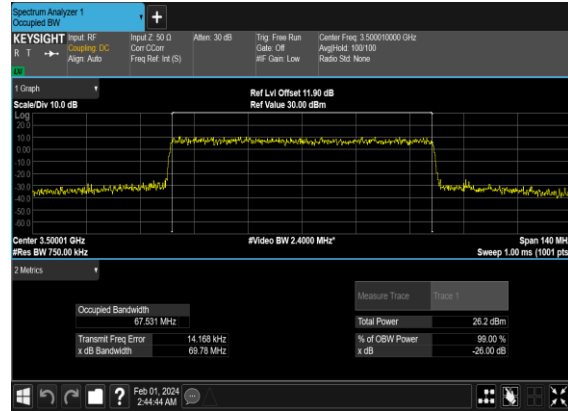
### N77(70M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



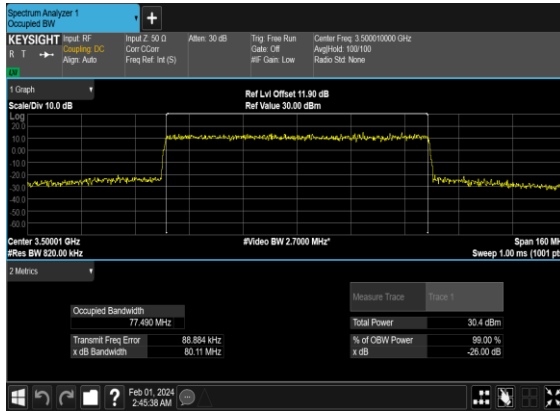
### N77(70M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH



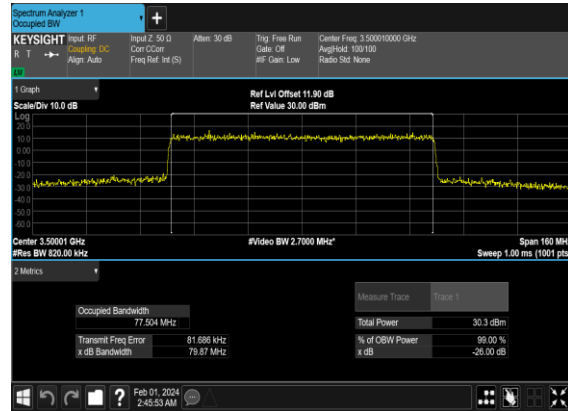
### N77(70M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH



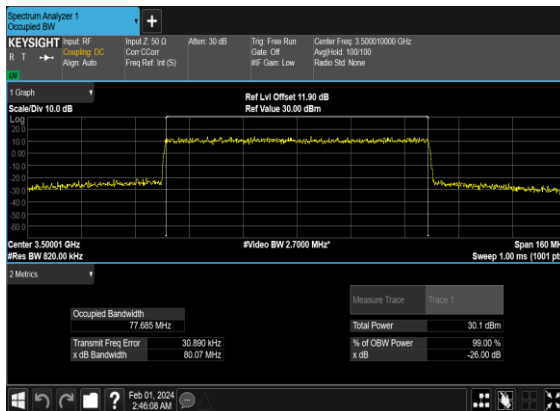
### N77(80M)\_CP- OFDM\_QPSK\_Outer\_Full\_Mid\_CH



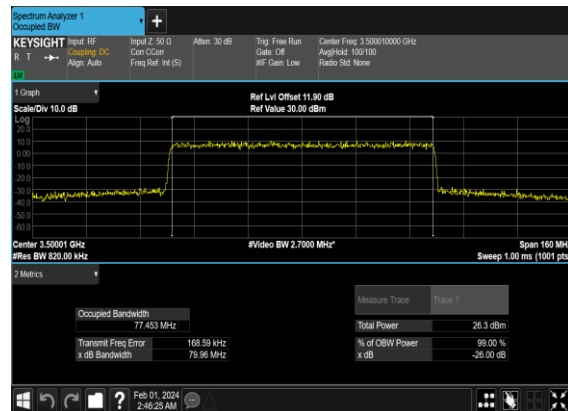
### N77(80M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



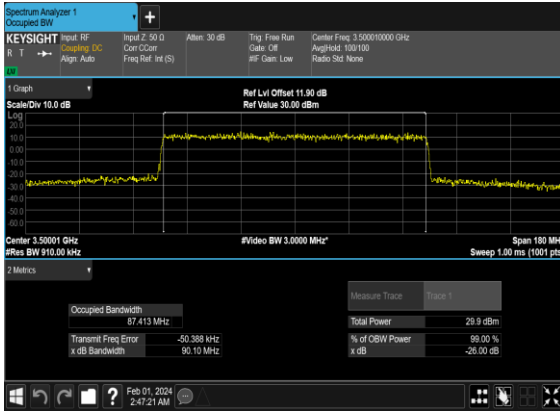
### N77(80M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH



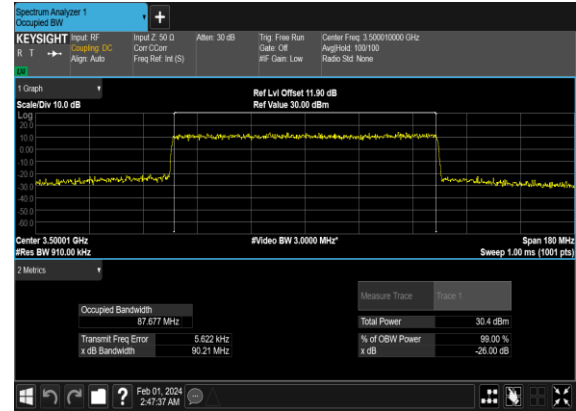
### N77(80M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH



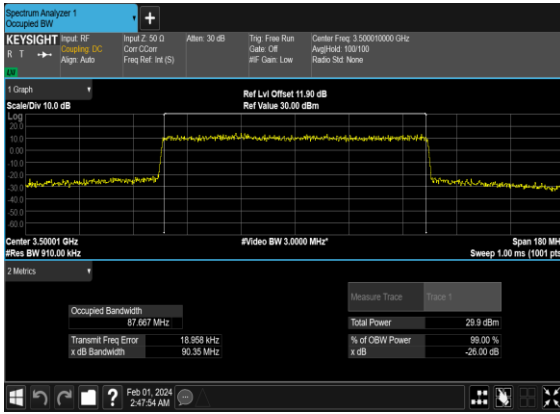
### N77(90M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



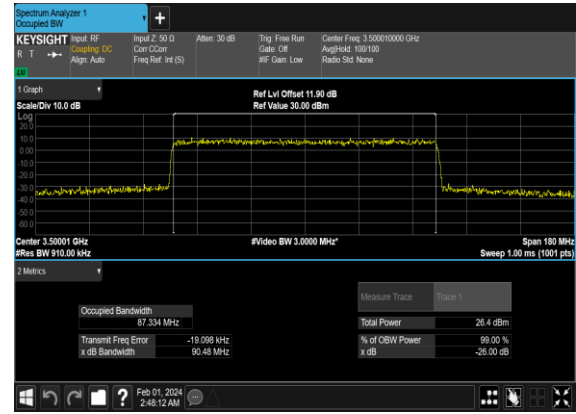
### N77(90M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



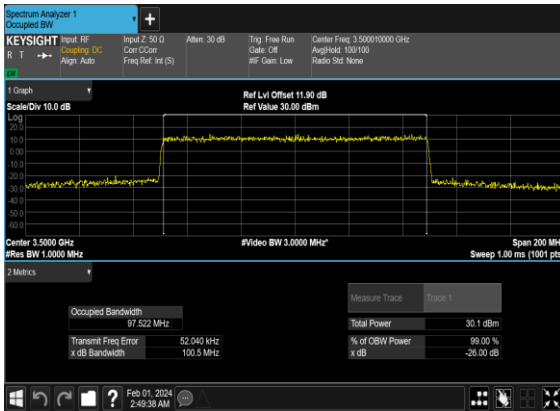
### N77(90M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH



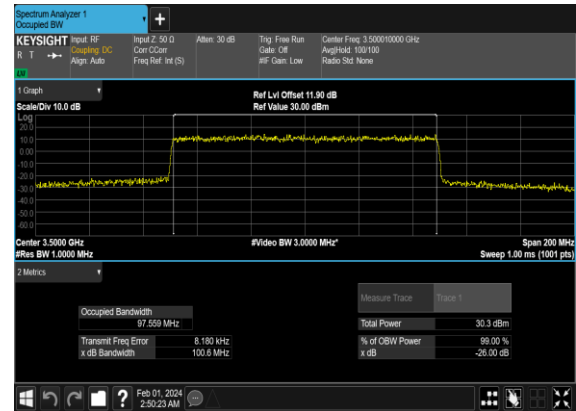
### N77(90M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH



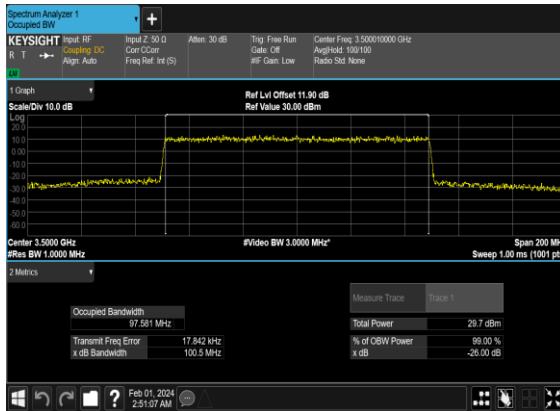
### N77(100M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



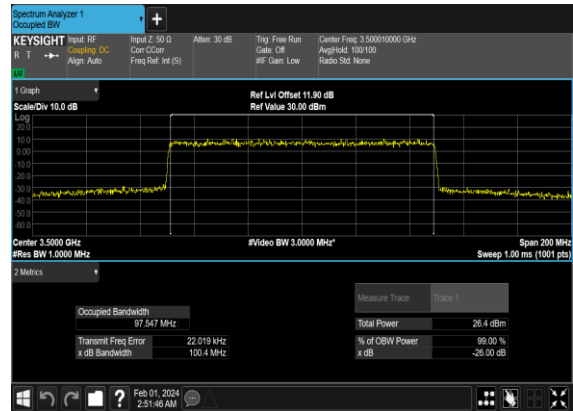
### N77(100M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



## N77(100M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH



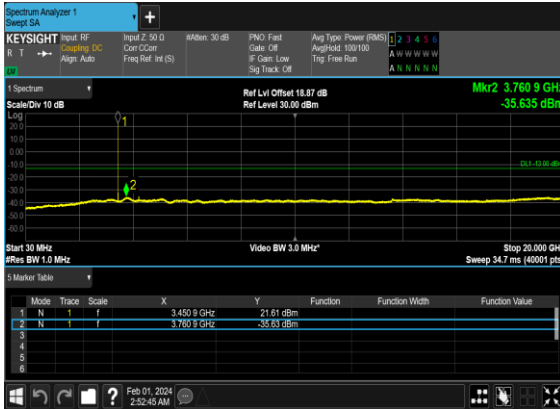
## N77(100M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH



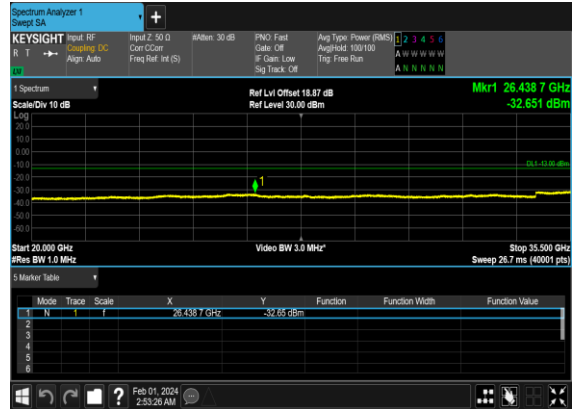
## Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arcfn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	10	630334	3455.01	CP-OFDM QPSK	1@0	see graph	---
77	30	10	630334	3455.01	CP-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	10	630334	3455.01	CP-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	10	633334	3500.01	CP-OFDM QPSK	1@0	see graph	---
77	30	10	633334	3500.01	CP-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	10	633334	3500.01	CP-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	10	636332	3544.98	CP-OFDM QPSK	1@0	see graph	---
77	30	10	636332	3544.98	CP-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	10	636332	3544.98	CP-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	50	631668	3475.02	CP-OFDM QPSK	1@0	see graph	---
77	30	50	631668	3475.02	CP-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	50	631668	3475.02	CP-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	50	633334	3500.01	CP-OFDM QPSK	1@0	see graph	---
77	30	50	633334	3500.01	CP-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	50	633334	3500.01	CP-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	50	635000	3525.0	CP-OFDM QPSK	1@0	see graph	---
77	30	50	635000	3525.0	CP-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	50	635000	3525.0	CP-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	100	633334	3500.01	CP-OFDM QPSK	1@0	see graph	---
77	30	100	633334	3500.01	CP-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	100	633334	3500.01	CP-OFDM QPSK	1@0	see graph	<b>PASS</b>

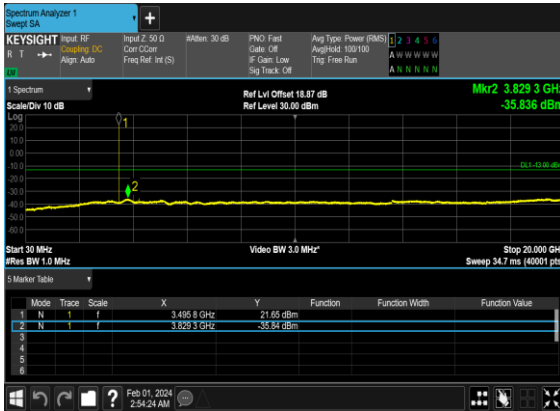
### N77(10M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



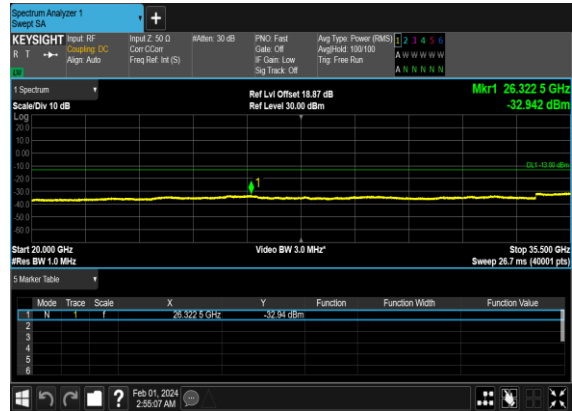
### N77(10M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



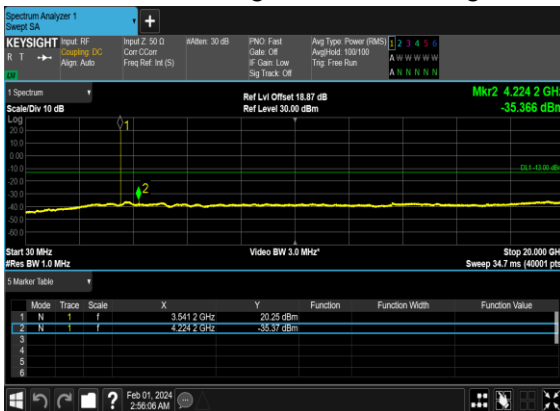
### N77(10M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



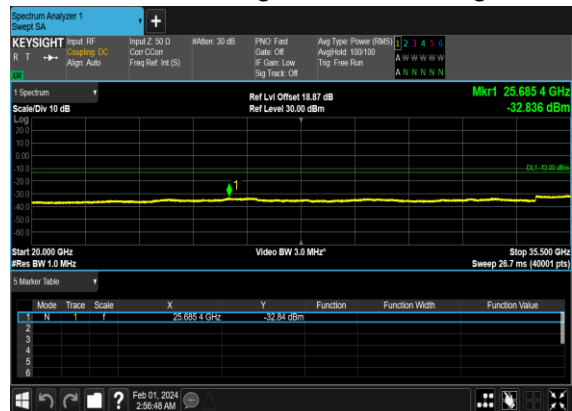
### N77(10M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



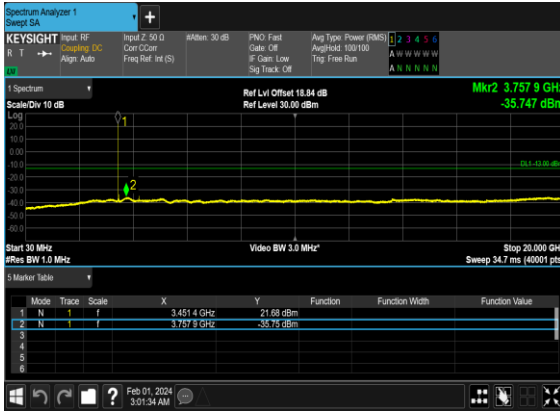
### N77(10M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



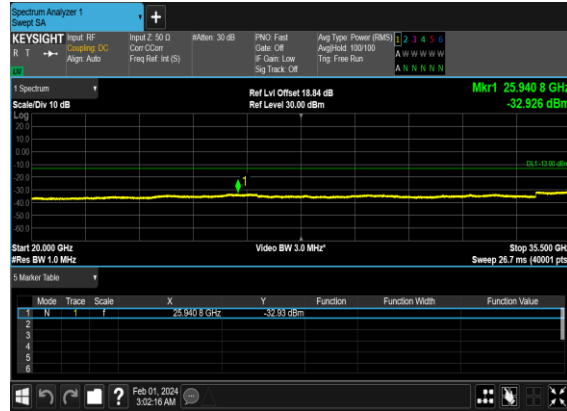
### N77(10M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



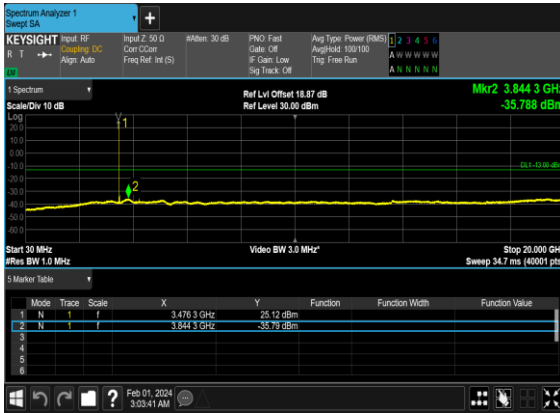
### N77(50M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



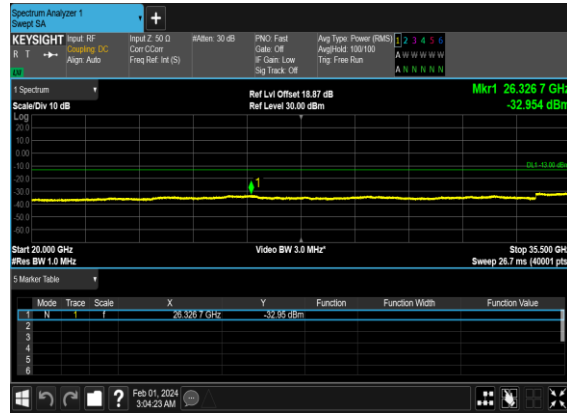
### N77(50M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



### N77(50M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



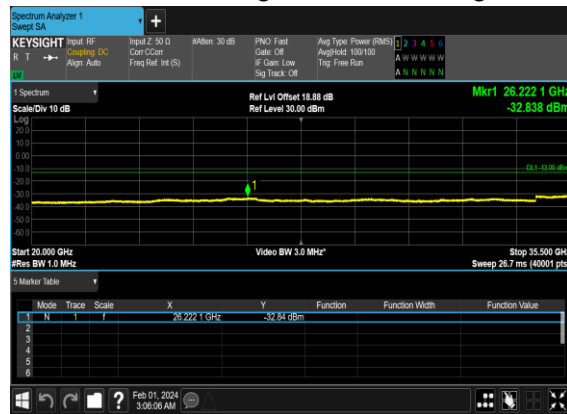
### N77(50M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



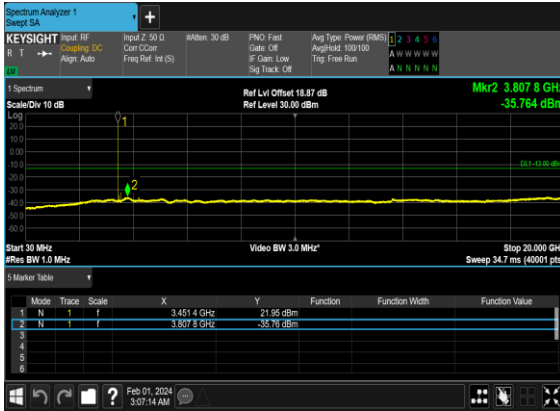
### N77(50M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



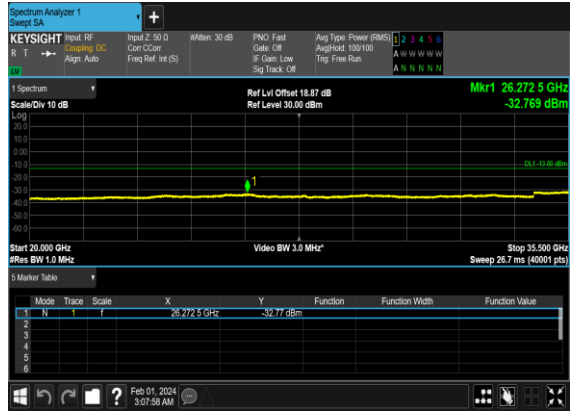
### N77(50M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



# N77(100M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



# N77(100M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH

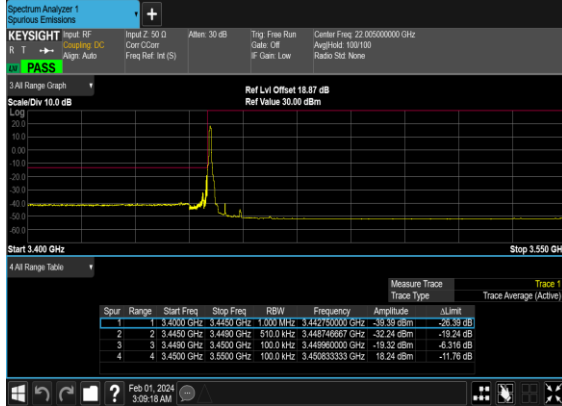




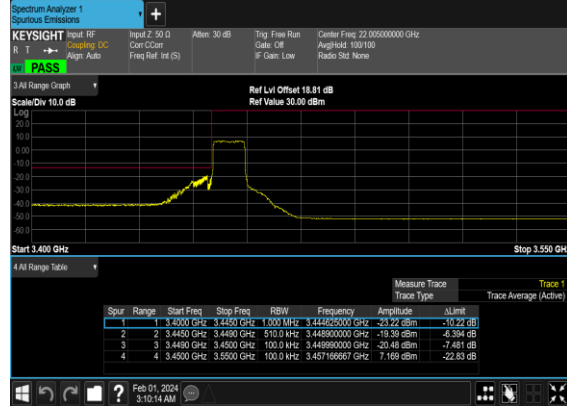
## Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	10	630334	3455.01	CP-OFDM QPSK	1@0	see graph	PASS
77	30	10	630334	3455.01	CP-OFDM QPSK	24@0	see graph	PASS
77	30	10	636332	3544.98	CP-OFDM QPSK	1@23	see graph	PASS
77	30	10	636332	3544.98	CP-OFDM QPSK	24@0	see graph	PASS
77	30	50	631668	3475.02	CP-OFDM QPSK	1@0	see graph	PASS
77	30	50	631668	3475.02	CP-OFDM QPSK	133@0	see graph	PASS
77	30	50	635000	3525.0	CP-OFDM QPSK	1@132	see graph	PASS
77	30	50	635000	3525.0	CP-OFDM QPSK	133@0	see graph	PASS
77	30	100	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
77	30	100	633334	3500.01	CP-OFDM QPSK	1@272	see graph	PASS
77	30	100	633334	3500.01	CP-OFDM QPSK	273@0	see graph	PASS

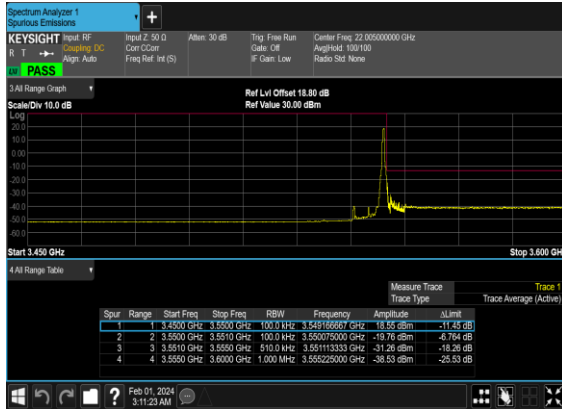
### N77(10M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



### N77(10M)\_CP- OFDM\_QPSK\_Outer\_Full\_Low\_CH



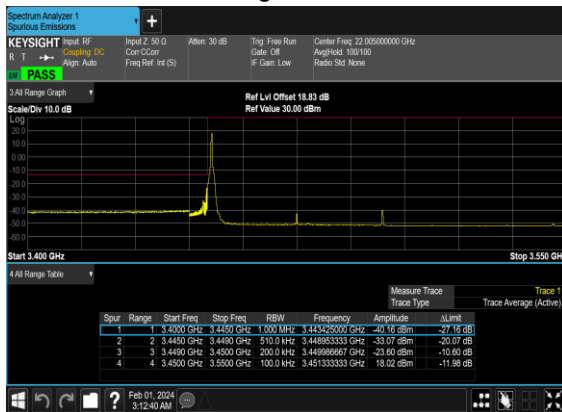
### N77(10M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



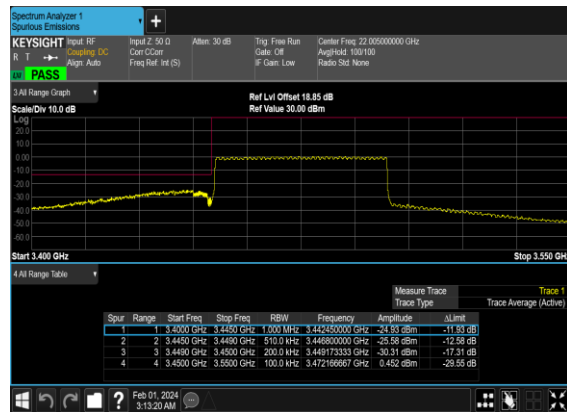
### N77(10M)\_CP- OFDM\_QPSK\_Outer\_Full\_High\_CH



### N77(50M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



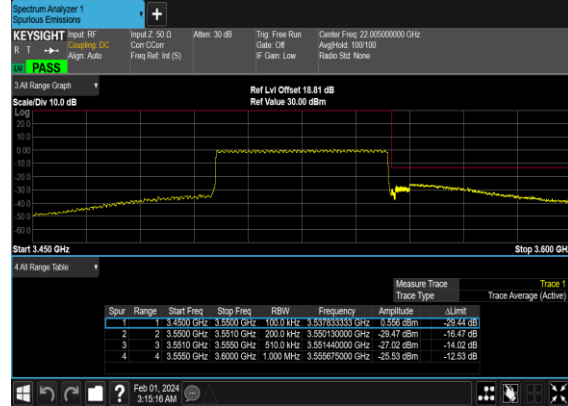
### N77(50M)\_CP- OFDM\_QPSK\_Outer\_Full\_Low\_CH



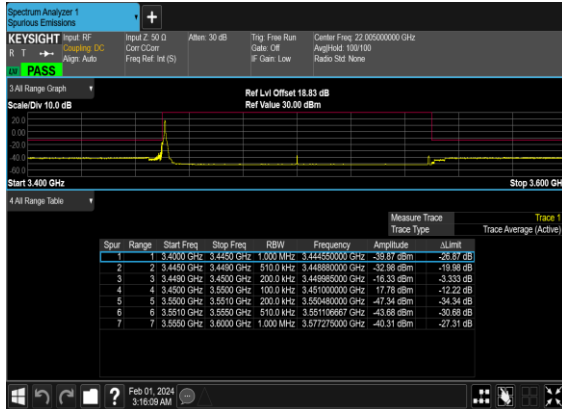
### N77(50M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



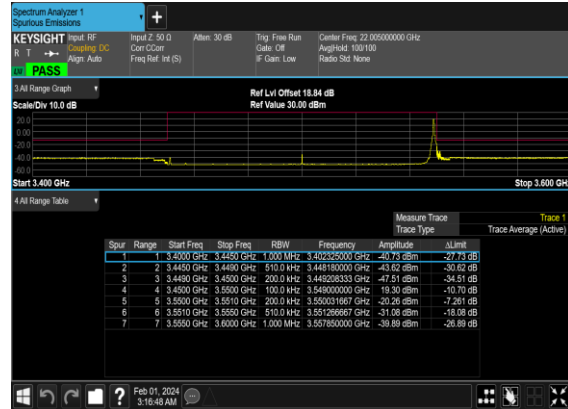
### DN77(50M)\_CP- OFDM\_QPSK\_Outer\_Full\_High\_CH



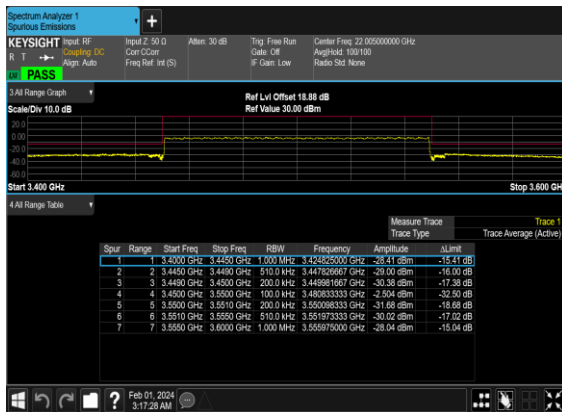
### N77(100M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



### N77(100M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Right\_Mid\_CH



### N77(100M)\_CP- OFDM\_QPSK\_Outer\_Full\_Mid\_CH



# FR1 N78 MIMO\_ANT4+7

## Transmitter Conducted Output Power And EIRP, (G<sub>T</sub> - L<sub>C</sub>)=-1.5dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	ANT4 Power(dBm)	ANT7 Power(dBm)	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
78	30	10	630334	3455.01	CP-OFDM QPSK	1@1	22.38	22.24	25.32	23.82	0.2410
78	30	10	630334	3455.01	CP-OFDM 16 QAM	1@1	21.95	21.5	24.74	23.24	0.2109
78	30	10	633334	3500.01	CP-OFDM QPSK	1@1	22.63	22.28	25.47	23.97	0.2495
78	30	10	633334	3500.01	CP-OFDM 16 QAM	1@1	22.06	21.54	24.82	23.32	0.2148
78	30	10	636332	3544.98	CP-OFDM QPSK	1@1	22.77	22.6	25.70	24.2	0.2630
78	30	10	636332	3544.98	CP-OFDM 16 QAM	1@1	22.17	22	25.10	23.6	0.2291
78	30	15	630500	3457.5	CP-OFDM QPSK	1@1	22.54	22.35	25.46	23.96	0.2489
78	30	15	630500	3457.5	CP-OFDM 16 QAM	1@1	22.08	21.62	24.87	23.37	0.2173
78	30	15	633334	3500.01	CP-OFDM QPSK	1@1	22.68	22.43	25.57	24.07	0.2553
78	30	15	633334	3500.01	CP-OFDM 16 QAM	1@1	22.14	21.65	24.91	23.41	0.2193
78	30	15	636166	3542.49	CP-OFDM QPSK	1@1	22.73	22.72	25.74	24.24	0.2655
78	30	15	636166	3542.49	CP-OFDM 16 QAM	1@1	22.14	22.01	25.09	23.59	0.2286
78	30	20	630668	3460.02	CP-OFDM QPSK	1@1	22.55	22.41	25.49	23.99	0.2506
78	30	20	630668	3460.02	CP-OFDM 16 QAM	1@1	22.04	21.65	24.86	23.36	0.2168
78	30	20	633334	3500.01	CP-OFDM QPSK	1@1	22.7	22.5	25.61	24.11	0.2576
78	30	20	633334	3500.01	CP-OFDM 16 QAM	1@1	22.42	21.91	25.18	23.68	0.2333
78	30	20	636000	3540	CP-OFDM QPSK	1@1	22.34	22.8	25.59	24.09	0.2564
78	30	20	636000	3540	CP-OFDM 16 QAM	1@1	21.74	21.98	24.87	23.37	0.2173
78	30	30	631000	3465	CP-OFDM QPSK	1@1	22.73	22.53	25.64	24.14	0.2594
78	30	30	631000	3465	CP-OFDM 16 QAM	1@1	22.21	21.79	25.02	23.52	0.2249
78	30	30	633334	3500.01	CP-OFDM QPSK	1@1	22.89	22.53	25.72	24.22	0.2642
78	30	30	633334	3500.01	CP-OFDM 16 QAM	1@1	22.36	21.76	25.08	23.58	0.2280
78	30	30	635666	3534.99	CP-OFDM QPSK	1@1	22.56	22.91	25.75	24.25	0.2661
78	30	30	635666	3534.99	CP-OFDM 16 QAM	1@1	21.99	22.09	25.05	23.55	0.2265
78	30	40	631334	3470.01	CP-OFDM QPSK	1@1	22.77	22.66	25.73	24.23	0.2649
78	30	40	631334	3470.01	CP-OFDM 16 QAM	1@1	22.3	21.92	25.12	23.62	0.2301
78	30	40	633334	3500.01	CP-OFDM QPSK	1@1	22.84	22.64	25.75	24.25	0.2661
78	30	40	633334	3500.01	CP-OFDM 16 QAM	1@1	22.36	21.89	25.14	23.64	0.2312
78	30	40	635332	3529.98	CP-OFDM QPSK	1@1	22.44	22.9	25.69	24.19	0.2624

78	30	40	635332	3529.98	CP-OFDM 16 QAM	1@1	21.85	22.1	24.99	23.49	0.2234
78	30	50	631668	3475.02	CP-OFDM QPSK	1@1	22.48	22.33	25.42	23.92	0.2466
78	30	50	631668	3475.02	CP-OFDM 16 QAM	1@1	21.91	21.6	24.77	23.27	0.2123
78	30	50	633334	3500.01	CP-OFDM QPSK	1@1	22.48	22.31	25.41	23.91	0.2460
78	30	50	633334	3500.01	CP-OFDM 16 QAM	1@1	22.05	21.51	24.80	23.3	0.2138
78	30	50	635000	3525	CP-OFDM QPSK	1@1	22.6	22.48	25.55	24.05	0.2541
78	30	50	635000	3525	CP-OFDM 16 QAM	1@1	22.07	21.59	24.85	23.35	0.2163
78	30	60	632000	3480	CP-OFDM QPSK	1@1	22.48	22.42	25.46	23.96	0.2489
78	30	60	632000	3480	CP-OFDM 16 QAM	1@1	22.07	21.71	24.90	23.4	0.2188
78	30	60	633334	3500.01	CP-OFDM QPSK	1@1	22.51	22.43	25.48	23.98	0.2500
78	30	60	633334	3500.01	CP-OFDM 16 QAM	1@1	21.99	21.64	24.83	23.33	0.2153
78	30	60	634666	3519.99	CP-OFDM QPSK	1@1	22.64	22.42	25.54	24.04	0.2535
78	30	60	634666	3519.99	CP-OFDM 16 QAM	1@1	22.16	21.68	24.94	23.44	0.2208
78	30	70	632334	3485.01	CP-OFDM QPSK	1@1	22.44	22.29	25.38	23.88	0.2443
78	30	70	632334	3485.01	CP-OFDM 16 QAM	1@1	21.93	21.55	24.75	23.25	0.2113
78	30	70	633334	3500.01	CP-OFDM QPSK	1@1	22.54	22.4	25.48	23.98	0.2500
78	30	70	633334	3500.01	CP-OFDM 16 QAM	1@1	21.95	21.6	24.79	23.29	0.2133
78	30	70	634332	3514.98	CP-OFDM QPSK	1@1	22.66	22.4	25.54	24.04	0.2535
78	30	70	634332	3514.98	CP-OFDM 16 QAM	1@1	22.1	21.62	24.88	23.38	0.2178
78	30	80	632668	3490.02	CP-OFDM QPSK	1@1	22.4	22.28	25.35	23.85	0.2427
78	30	80	632668	3490.02	CP-OFDM 16 QAM	1@1	21.92	21.56	24.75	23.25	0.2113
78	30	80	633334	3500.01	CP-OFDM QPSK	1@1	22.34	22.57	25.47	23.97	0.2495
78	30	80	633334	3500.01	CP-OFDM 16 QAM	1@1	21.86	21.68	24.78	23.28	0.2128
78	30	80	634000	3510	CP-OFDM QPSK	1@1	22.51	22.65	25.59	24.09	0.2564
78	30	80	634000	3510	CP-OFDM 16 QAM	1@1	21.98	21.89	24.95	23.45	0.2213
78	30	90	633000	3495	CP-OFDM QPSK	1@1	22.29	22.57	25.44	23.94	0.2477
78	30	90	633000	3495	CP-OFDM 16 QAM	1@1	21.89	21.79	24.85	23.35	0.2163
78	30	90	633334	3500.01	CP-OFDM QPSK	1@1	22.32	22.54	25.44	23.94	0.2477
78	30	90	633334	3500.01	CP-OFDM 16 QAM	1@1	21.79	21.8	24.81	23.31	0.2143
78	30	90	633666	3504.99	CP-OFDM QPSK	1@1	22.41	22.57	25.50	24	0.2512
78	30	90	633666	3504.99	CP-OFDM 16 QAM	1@1	21.9	21.82	24.87	23.37	0.2173
78	30	100	633334	3500.01	CP-OFDM QPSK	137@68	22.77	22.72	25.76	24.26	0.2667
78	30	100	633334	3500.01	CP-OFDM QPSK	1@1	22.11	22.42	25.28	23.78	0.2388
78	30	100	633334	3500.01	CP-OFDM QPSK	1@271	21.71	22.14	24.94	23.44	0.2208
78	30	100	633334	3500.01	CP-OFDM 16 QAM	137@68	22.12	21.68	24.92	23.42	0.2198

78	30	100	633334	3500.01	CP-OFDM 16 QAM	1@1	21.67	21.63	24.66	23.16	0.2070
78	30	100	633334	3500.01	CP-OFDM 16 QAM	1@271	21.15	21.43	24.30	22.8	0.1905
78	30	100	633334	3500.01	CP-OFDM 64 QAM	137@68	20.59	20.2	23.41	21.91	0.1552
78	30	100	633334	3500.01	CP-OFDM 64 QAM	1@1	20.12	20.16	23.15	21.65	0.1462
78	30	100	633334	3500.01	CP-OFDM 64 QAM	1@271	19.9	19.88	22.90	21.4	0.1380
78	30	100	633334	3500.01	CP-OFDM 256 QAM	137@68	20.61	20.19	23.42	21.92	0.1556
78	30	100	633334	3500.01	CP-OFDM 256 QAM	1@1	17.11	17.37	20.25	18.75	0.0750
78	30	100	633334	3500.01	CP-OFDM 256 QAM	1@271	16.92	17.18	20.06	18.56	0.0718



## 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.

EN-DC 41A_n77A / LTE 10MHz + NR 100MHz / QPSK / ANT6 (LTE) & ANT4(NR)									
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 Middle	6902	-53.68	-13	-40.68	-49.02	-55.20	11.98	13.50	H
	10353	-55.68	-13	-42.68	-56.80	-55.68	13.60	13.60	H
	13804	-51.82	-13	-38.82	-58.29	-51.42	15.50	15.10	H
	6902	-52.78	-13	-39.78	-48.04	-54.30	11.98	13.50	V
	10353	-55.85	-13	-42.85	-56.76	-55.85	13.60	13.60	V
	13804	-51.46	-13	-38.46	-57.62	-51.06	15.50	15.10	V
LTE Band41 Middle	5177.00	-62.47	-25	-37.47	-80.01	-68.03	7.14	12.70	H
	7765.50	-43.09	-25	-18.09	-40.23	-46.39	8.30	11.60	H
	10354.00	-55.80	-25	-30.80	-56.92	-57.32	10.48	12.00	H
	5177.00	-61.87	-25	-36.87	-79.35	-67.43	7.14	12.70	V
	7765.50	-47.74	-25	-22.74	-44.86	-51.04	8.30	11.60	V
	10354.00	-56.11	-25	-31.11	-57.03	-57.63	10.48	12.00	V

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

SA n77 UL_MIMO / NR 90MHz / QPSK / ANT4+7(NR)									
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)
Middle	6912.4	-50.46	-13	-37.46	-45.83	-51.98	11.98	13.50	H
	10368.6	-52.00	-13	-39.00	-53.13	-52.00	13.60	13.60	H
	13824.8	-52.01	-13	-39.01	-58.46	-51.61	15.50	15.10	H
	6912.4	-52.83	-13	-39.83	-48.15	-54.35	11.98	13.50	V
	10368.6	-46.35	-13	-33.35	-47.29	-46.35	13.60	13.60	V
	13824.8	-52.31	-13	-39.31	-58.44	-51.91	15.50	15.10	V

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