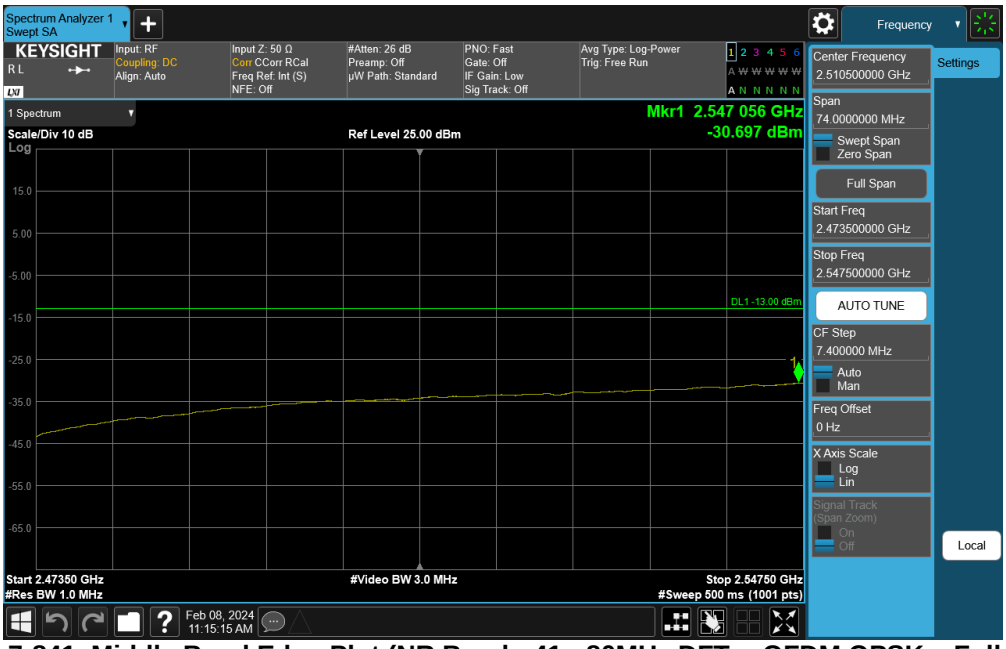
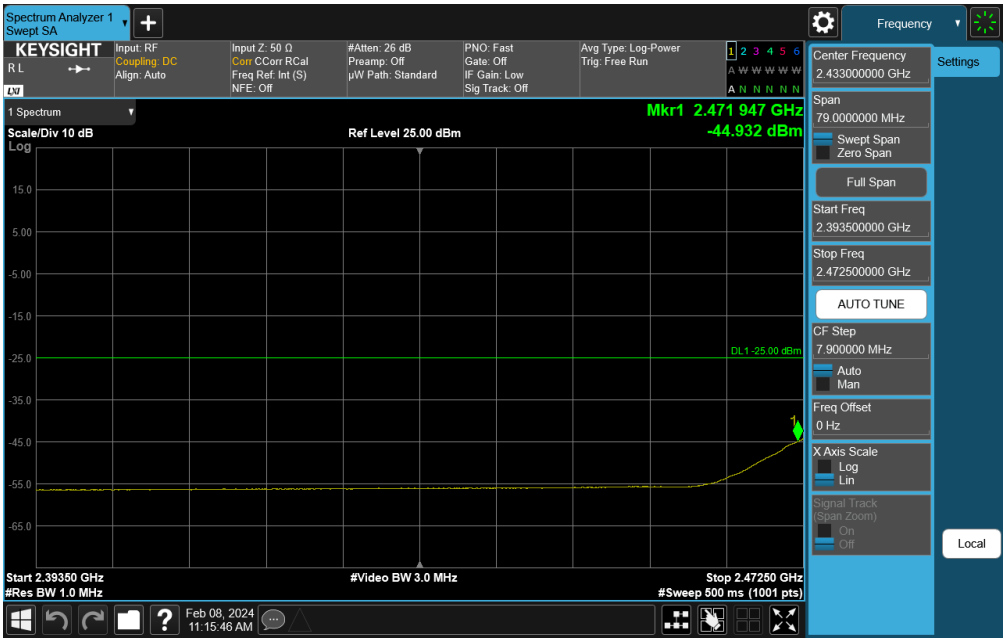
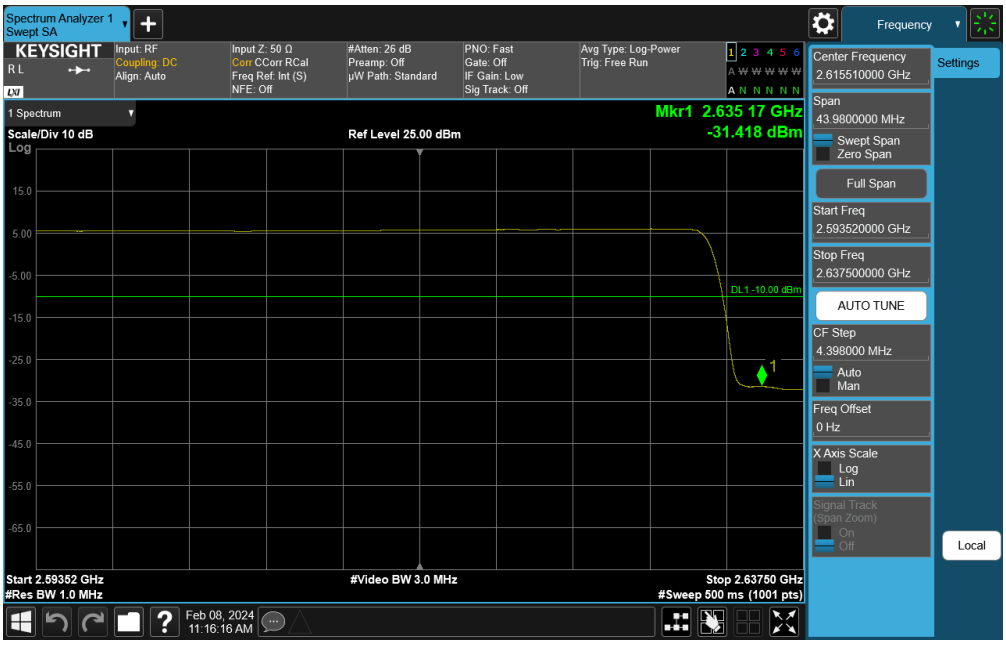


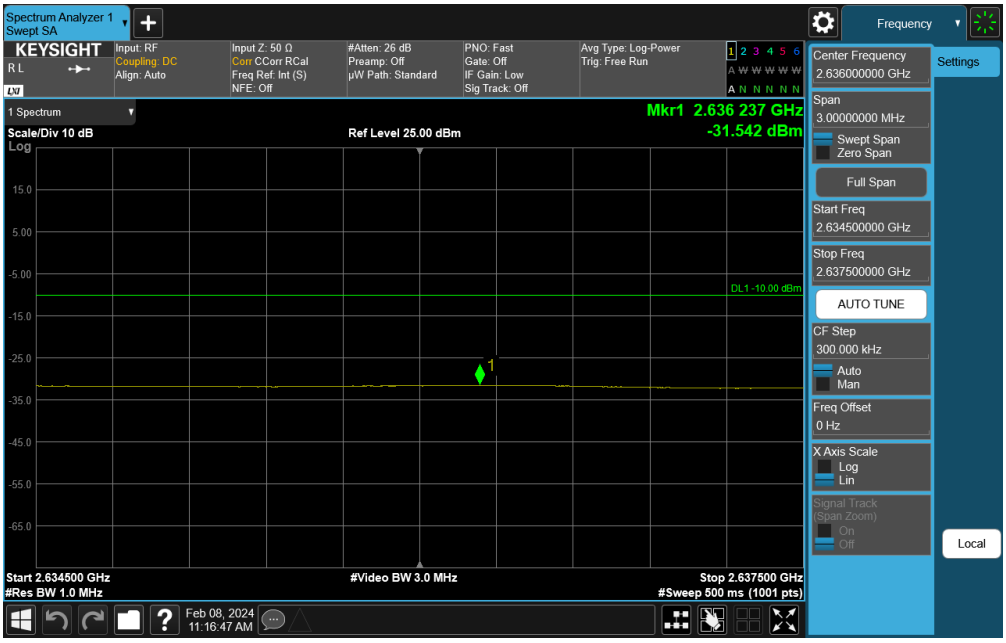
Plot 7-841. Middle Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)



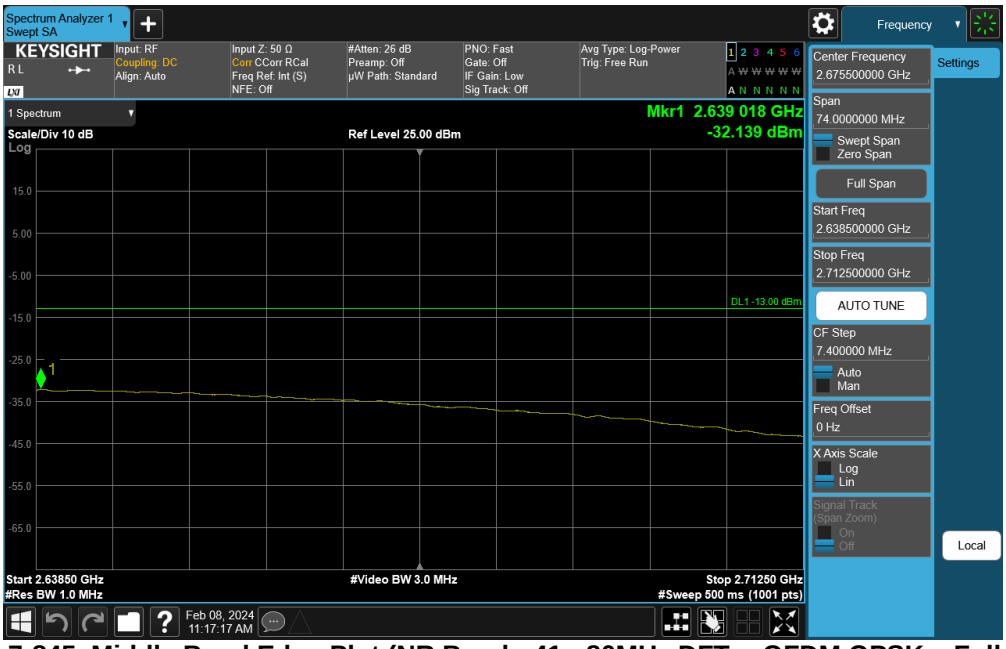
Plot 7-842. Middle Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)



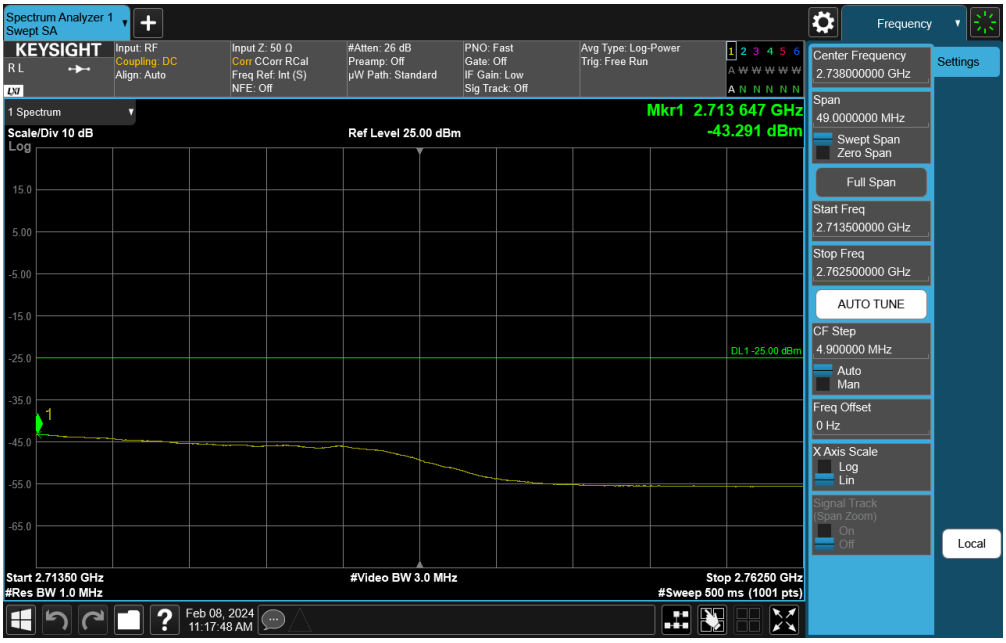
Plot 7-843. Middle Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)



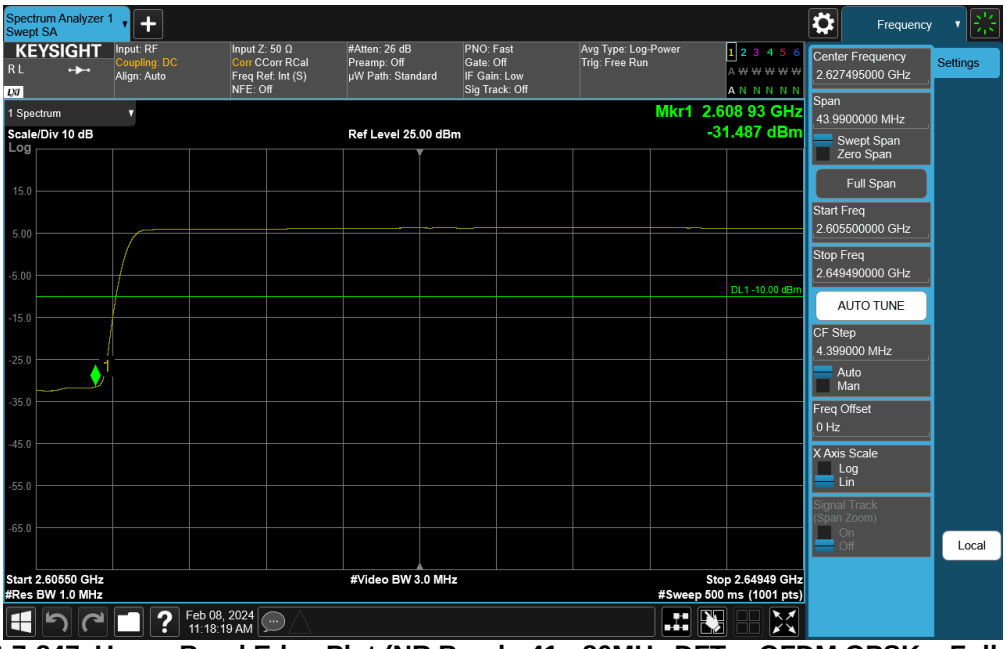
Plot 7-844. Middle Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)



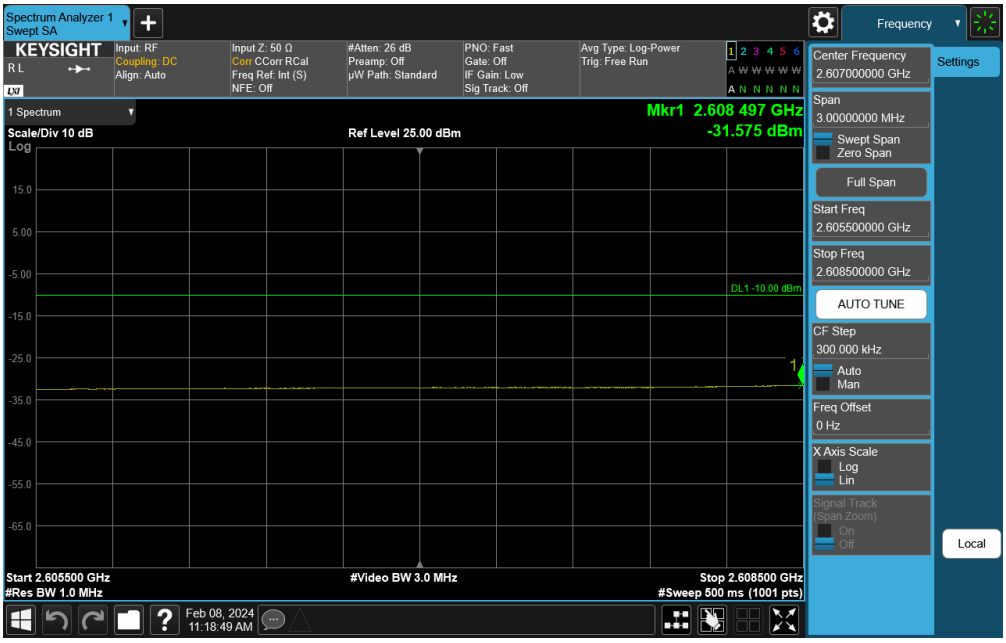
Plot 7-845. Middle Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)



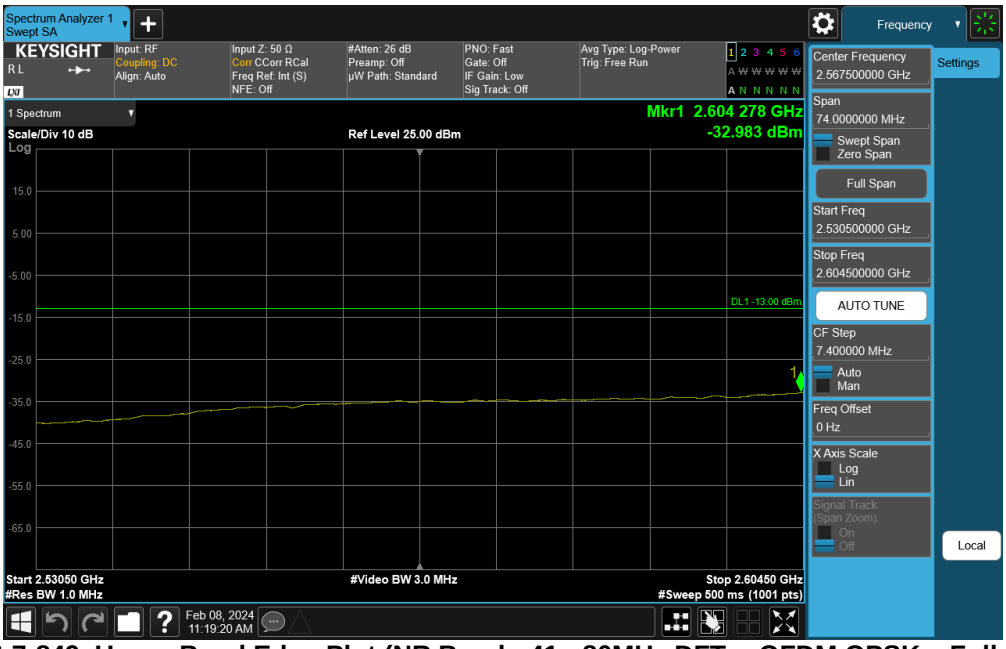
Plot 7-846. Middle Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)



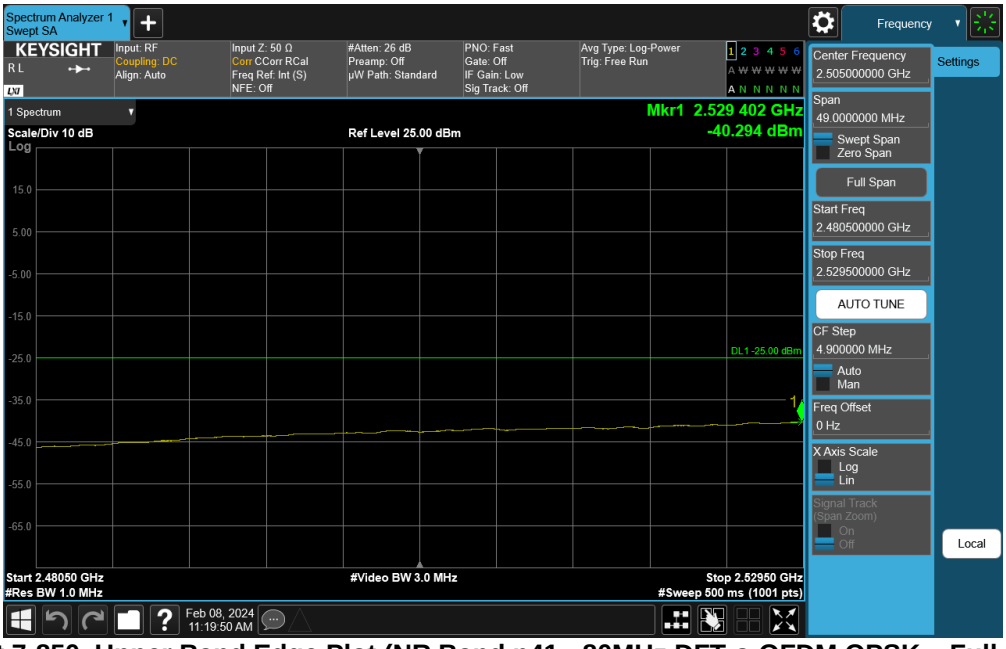
Plot 7-847. Upper Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)



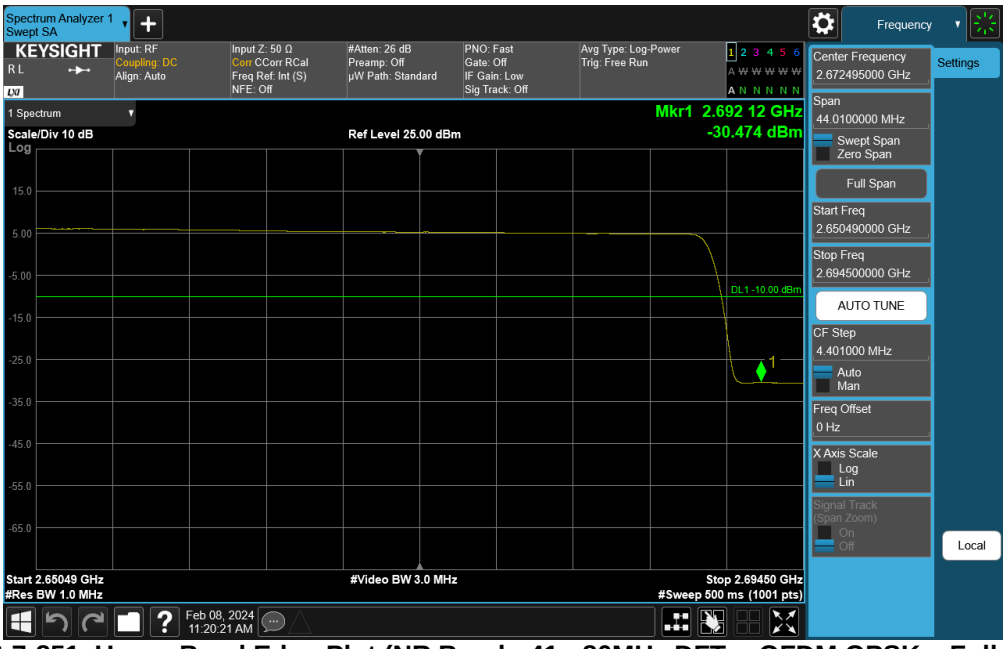
Plot 7-848. Upper Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)



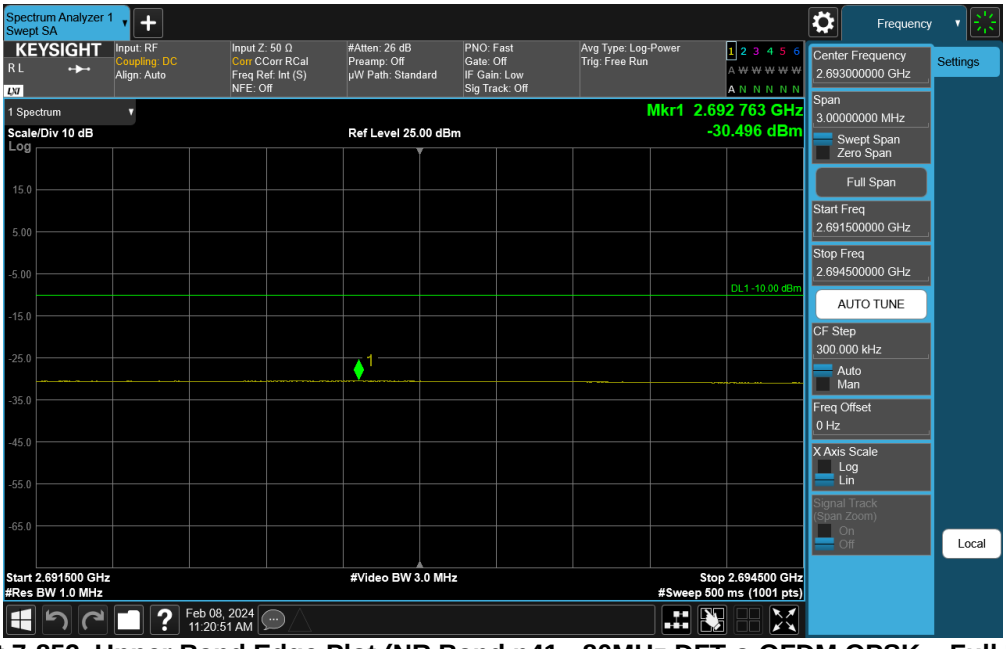
Plot 7-849. Upper Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)



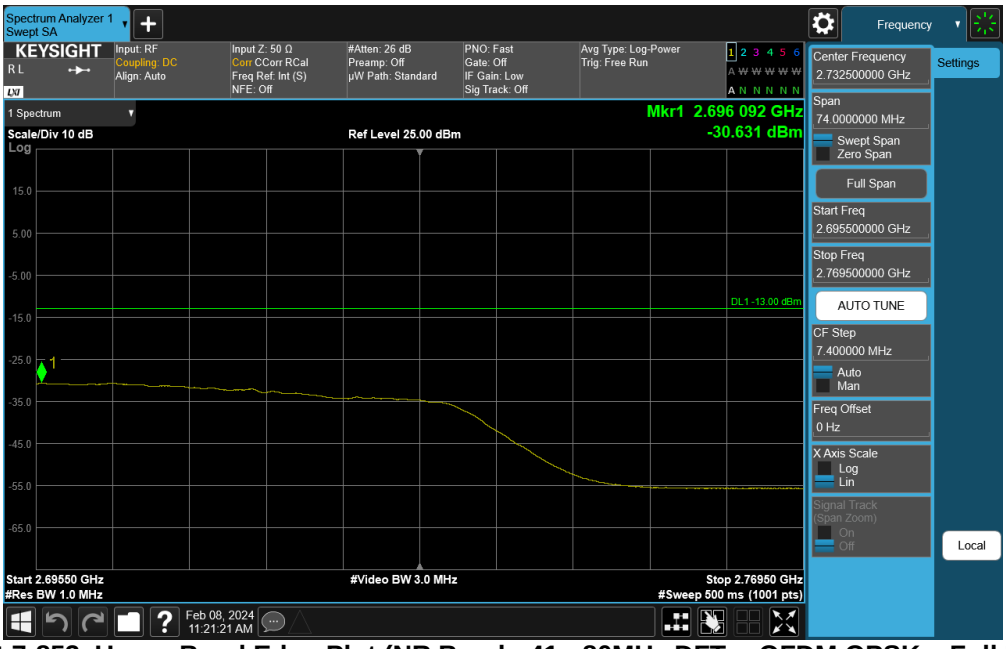
Plot 7-850. Upper Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)



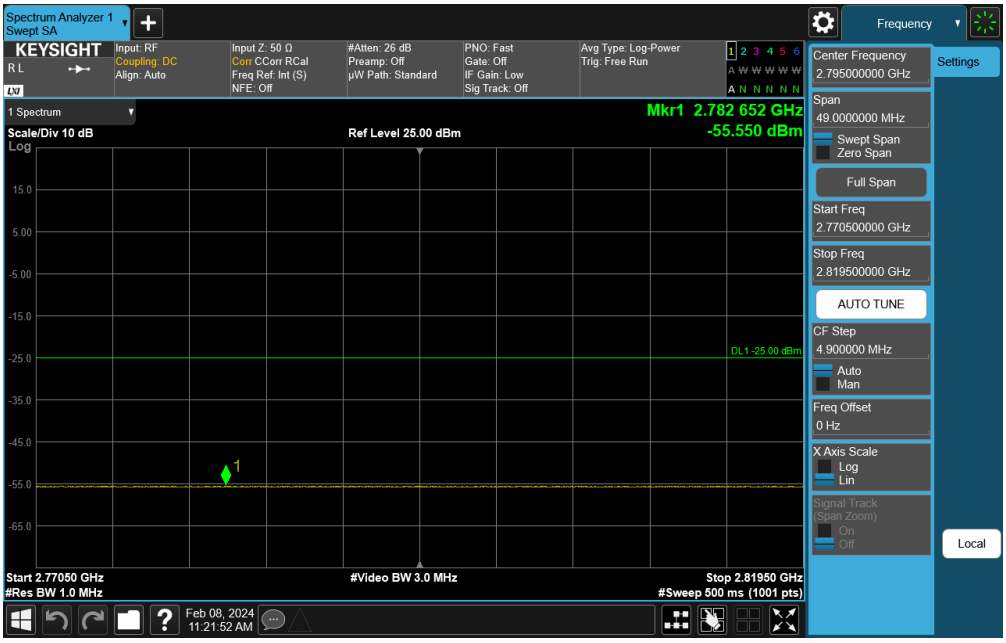
Plot 7-851. Upper Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)



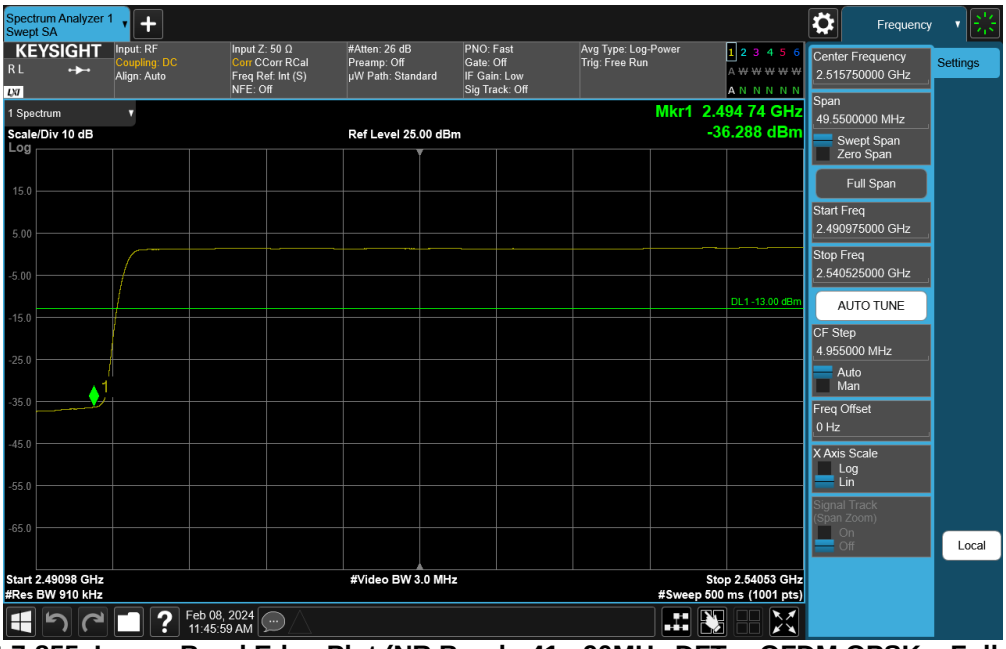
Plot 7-852. Upper Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)



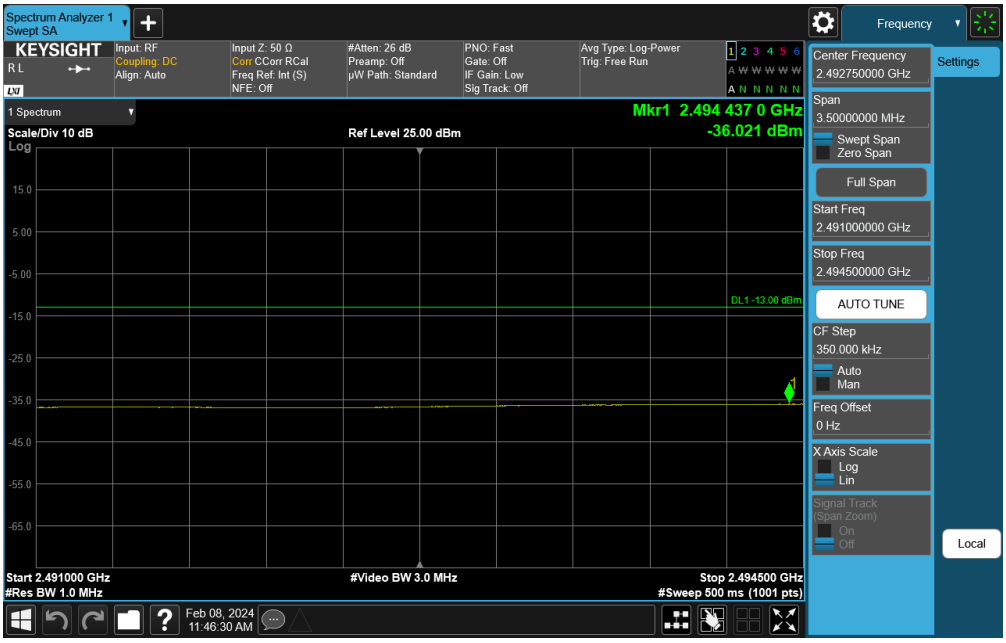
Plot 7-853. Upper Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)



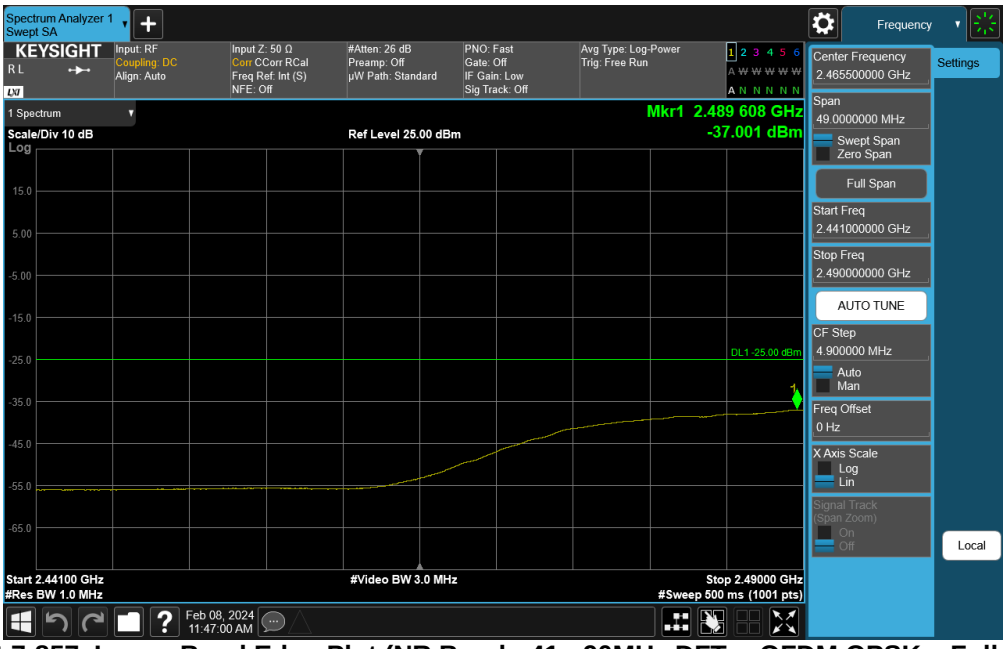
Plot 7-854. Upper Band Edge Plot (NR Band n41 - 80MHz DFT-s-OFDM QPSK – Full RB)



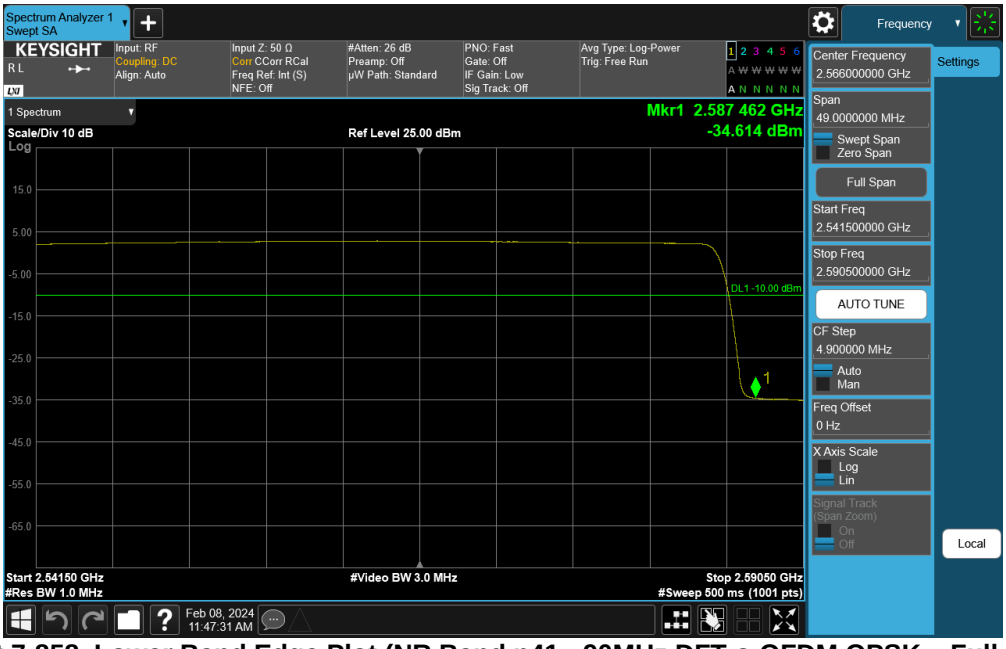
Plot 7-855. Lower Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)



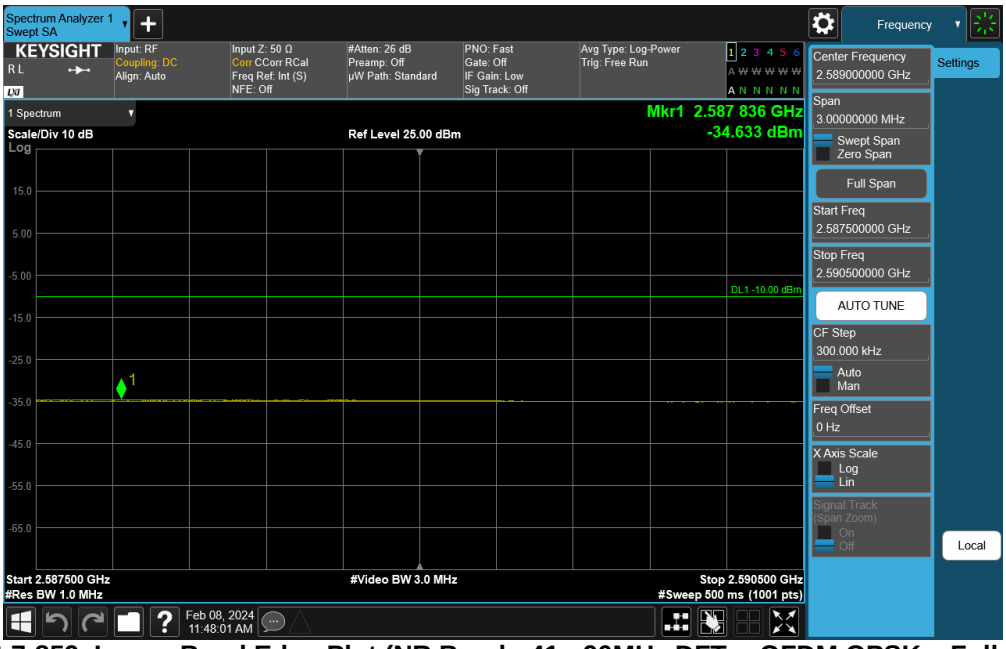
Plot 7-856. Lower Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)



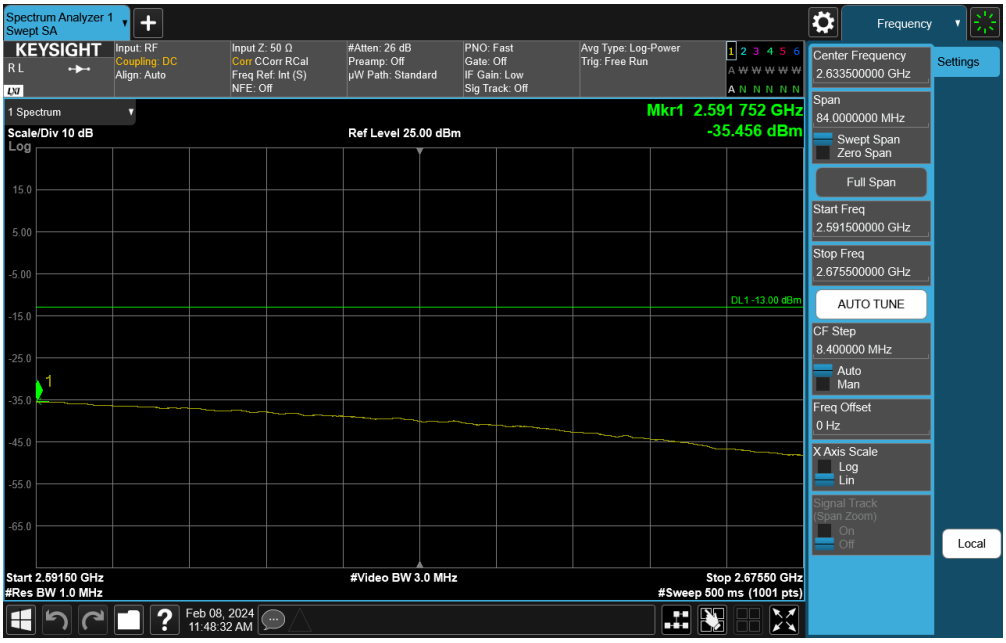
Plot 7-857. Lower Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)



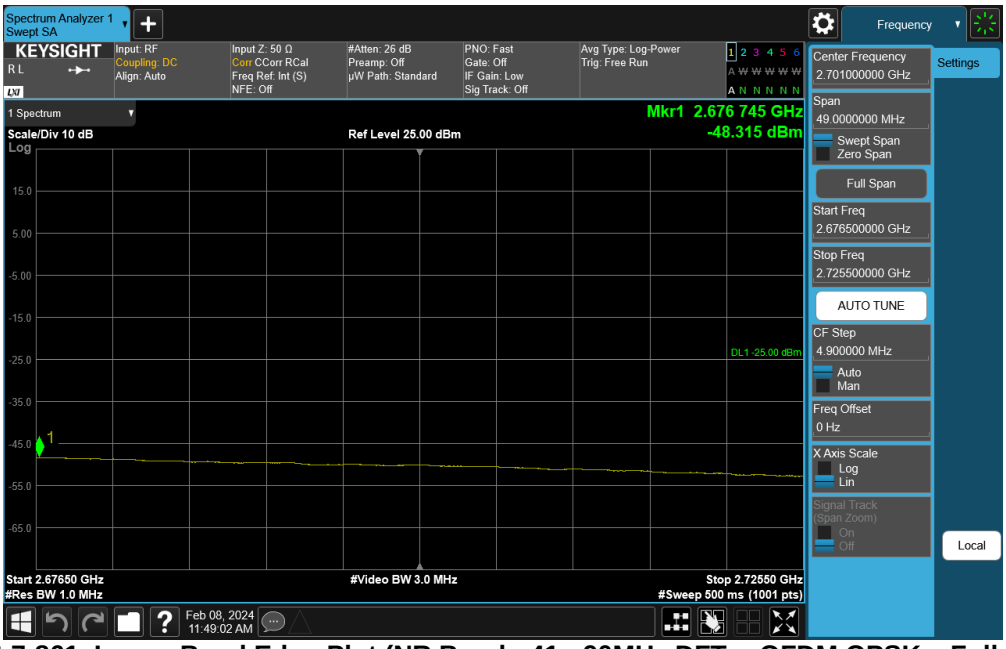
Plot 7-858. Lower Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)



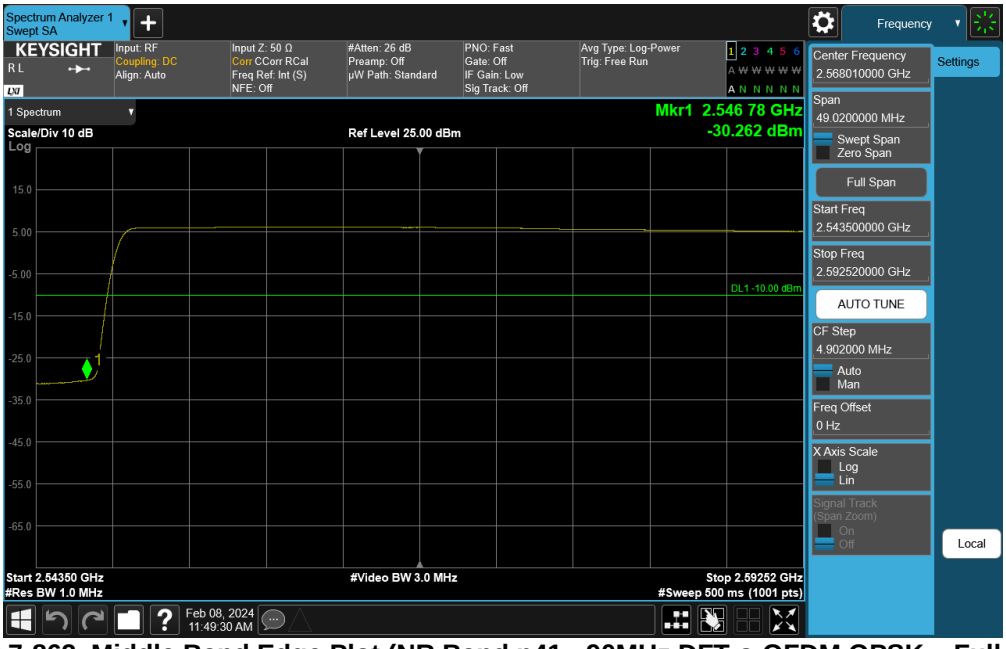
Plot 7-859. Lower Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)



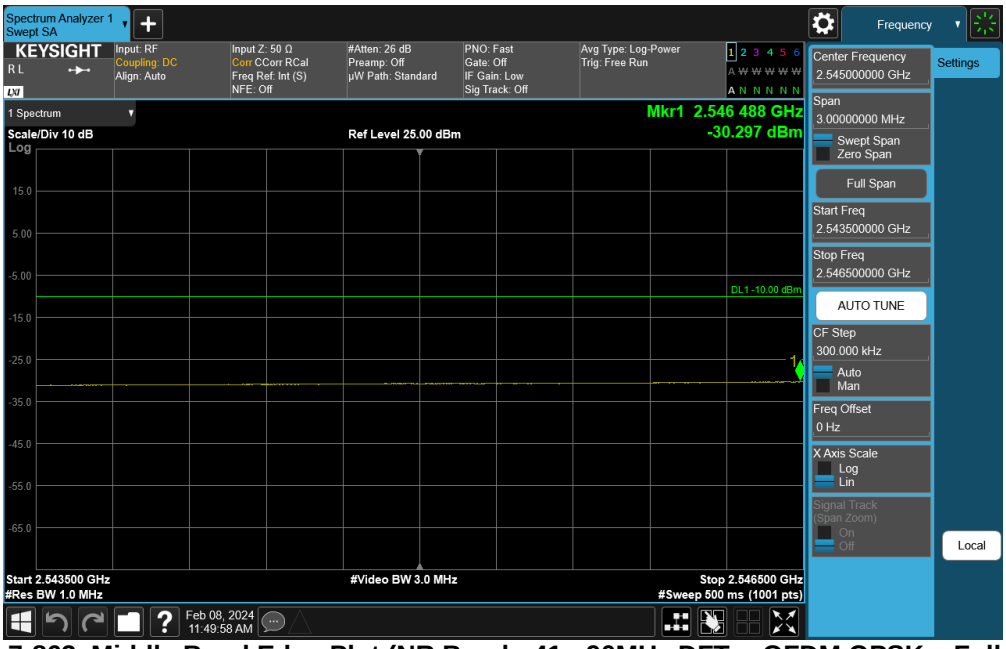
Plot 7-860. Lower Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)



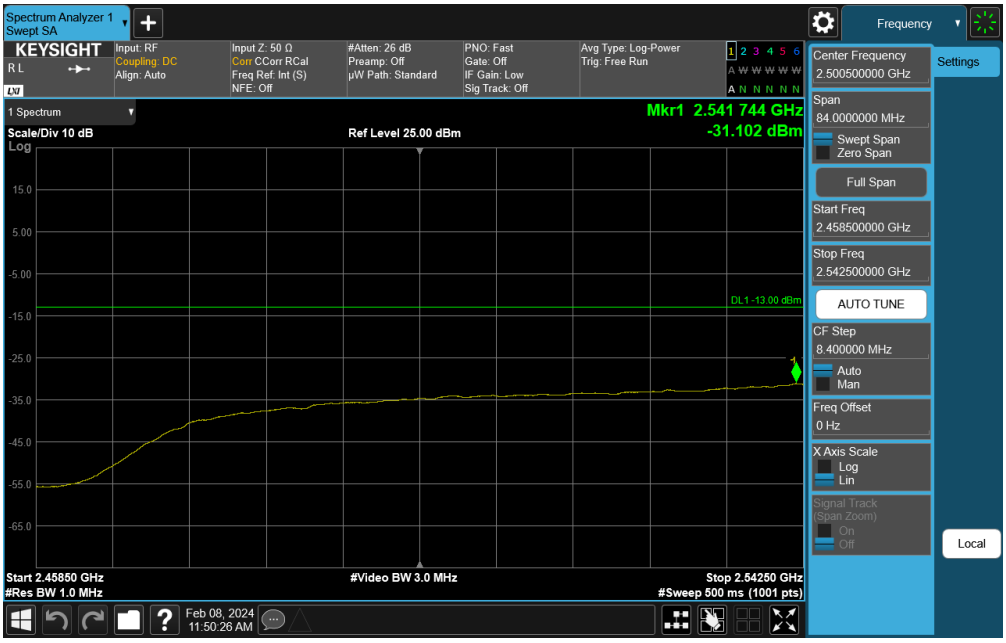
Plot 7-861. Lower Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)



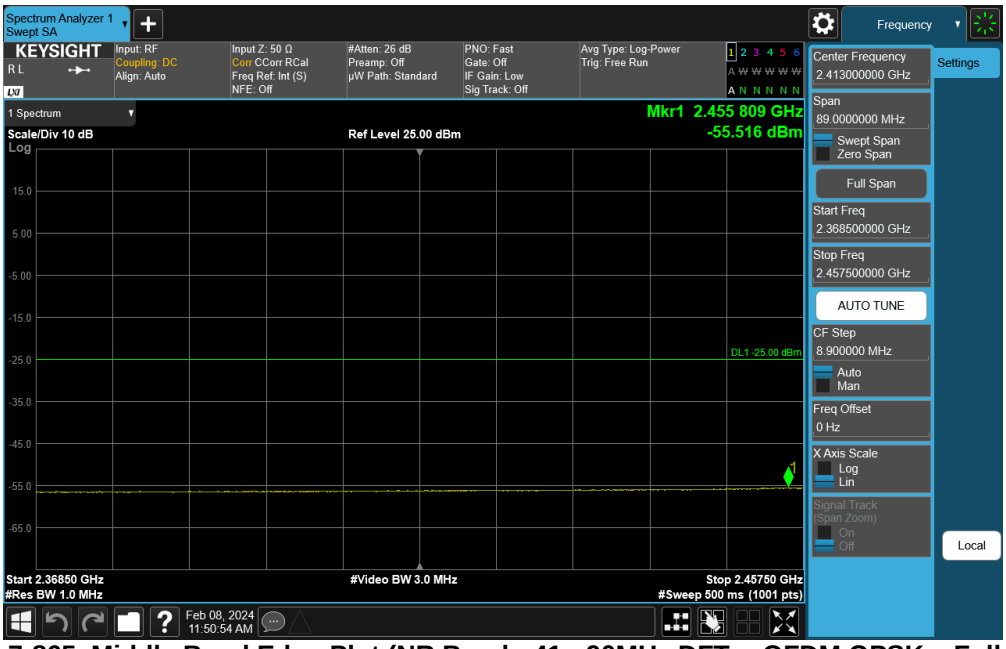
Plot 7-862. Middle Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)



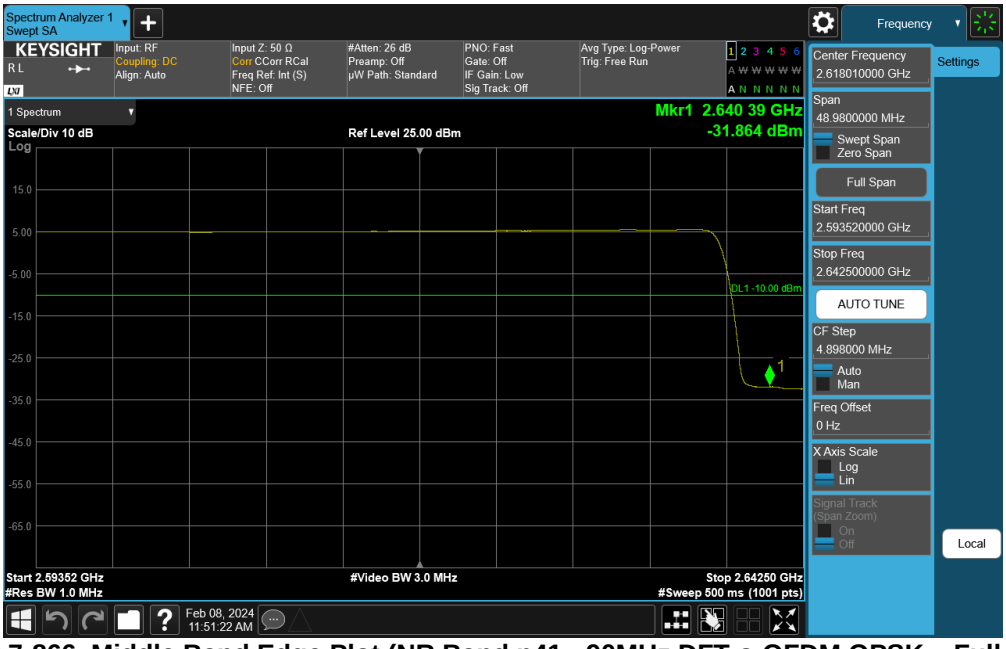
Plot 7-863. Middle Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)



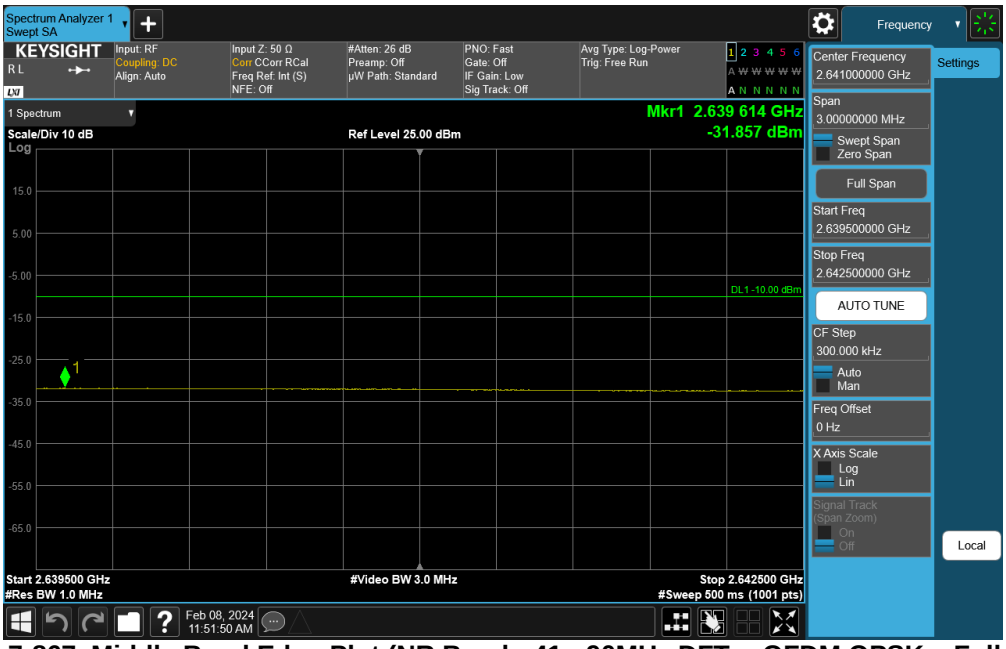
Plot 7-864. Middle Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)



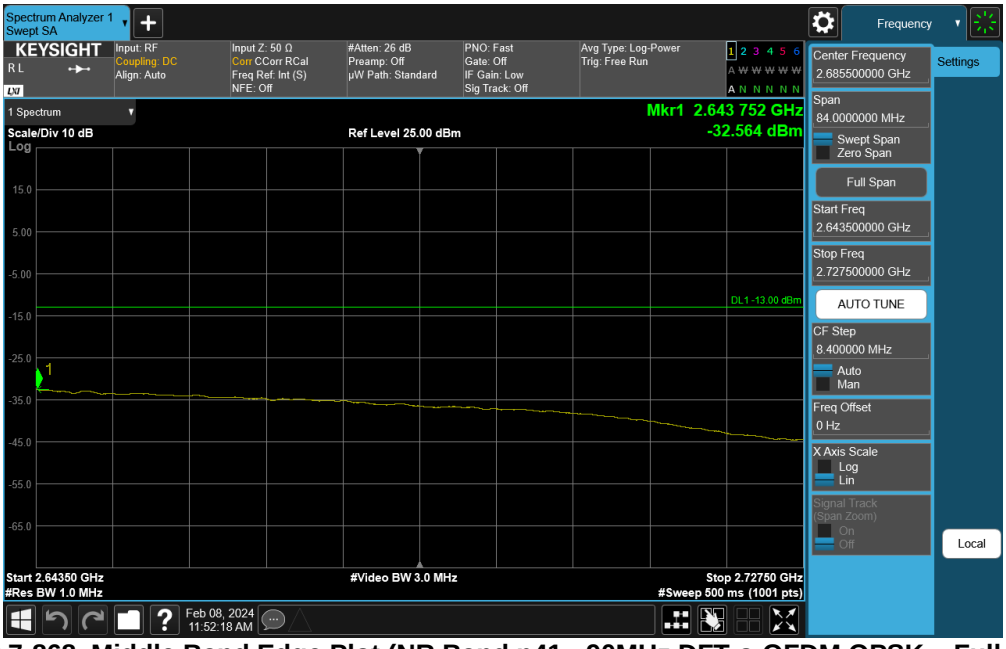
Plot 7-865. Middle Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)



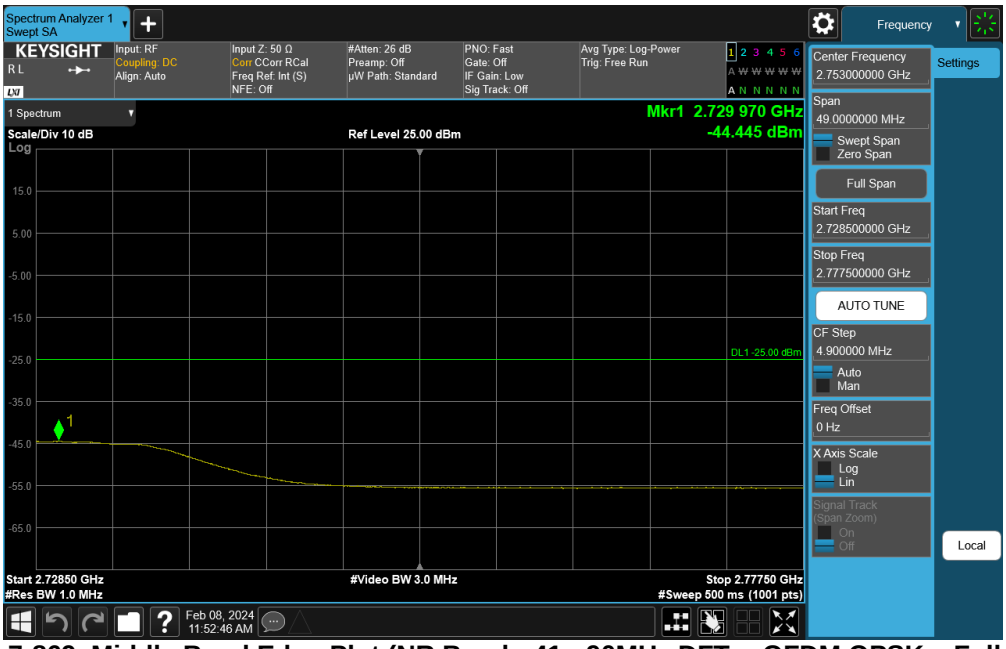
Plot 7-866. Middle Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)



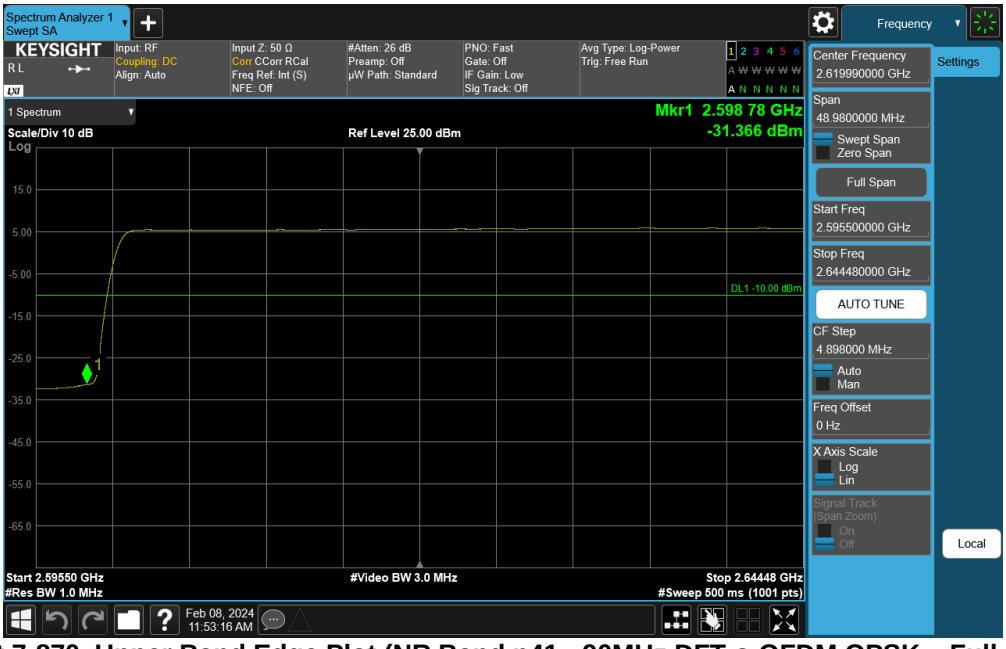
Plot 7-867. Middle Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)



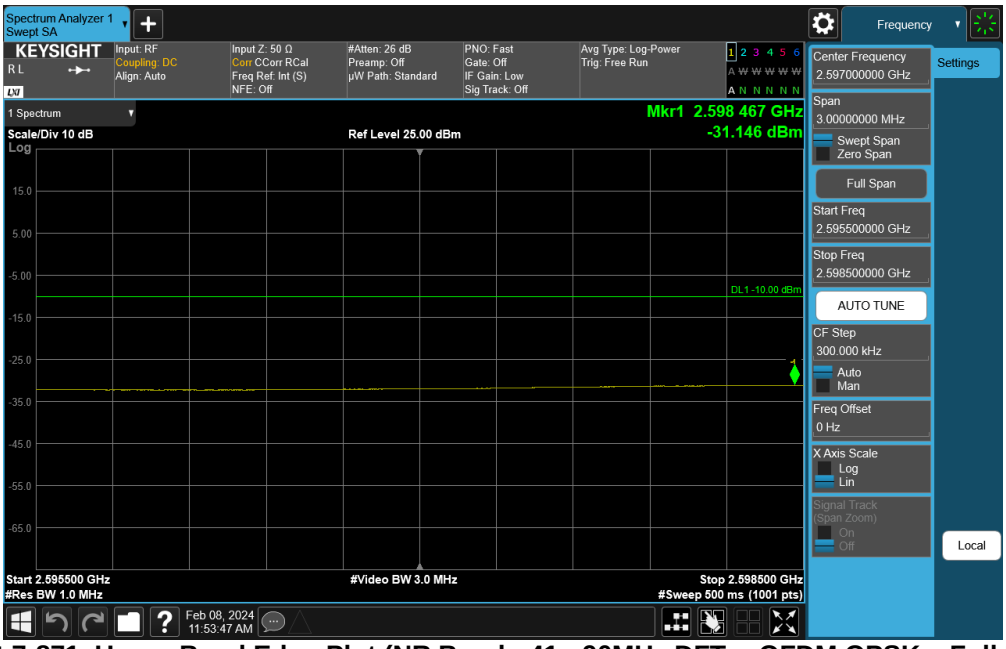
Plot 7-868. Middle Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)



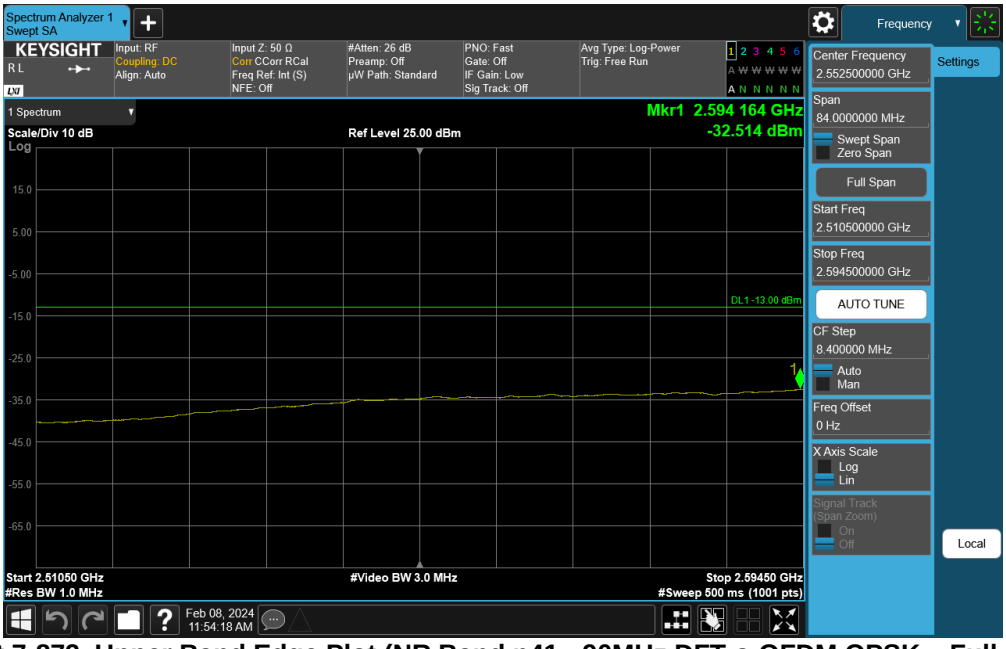
Plot 7-869. Middle Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)



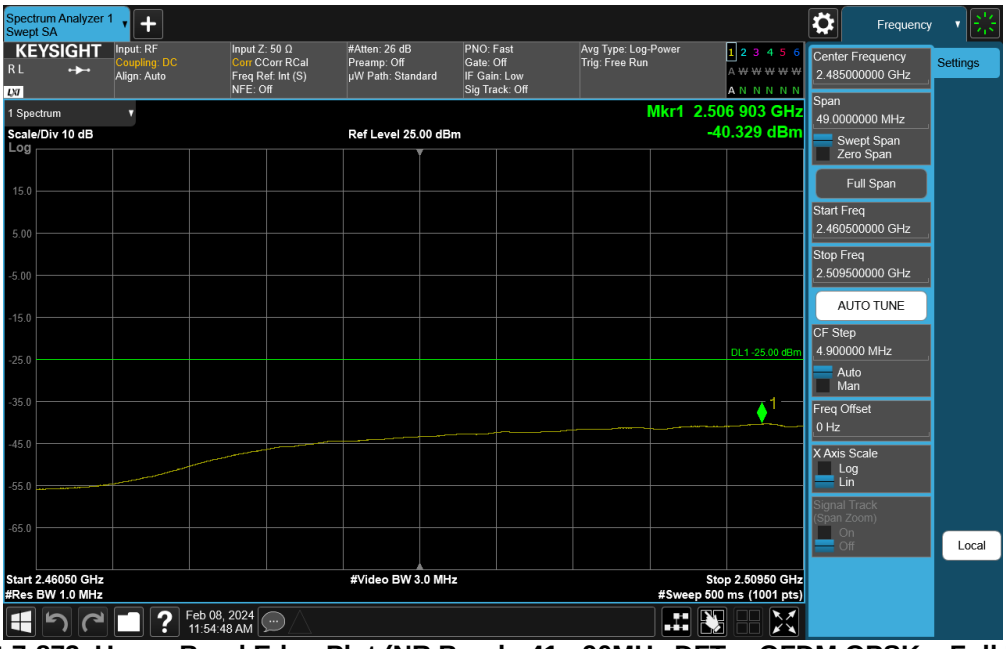
Plot 7-870. Upper Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)



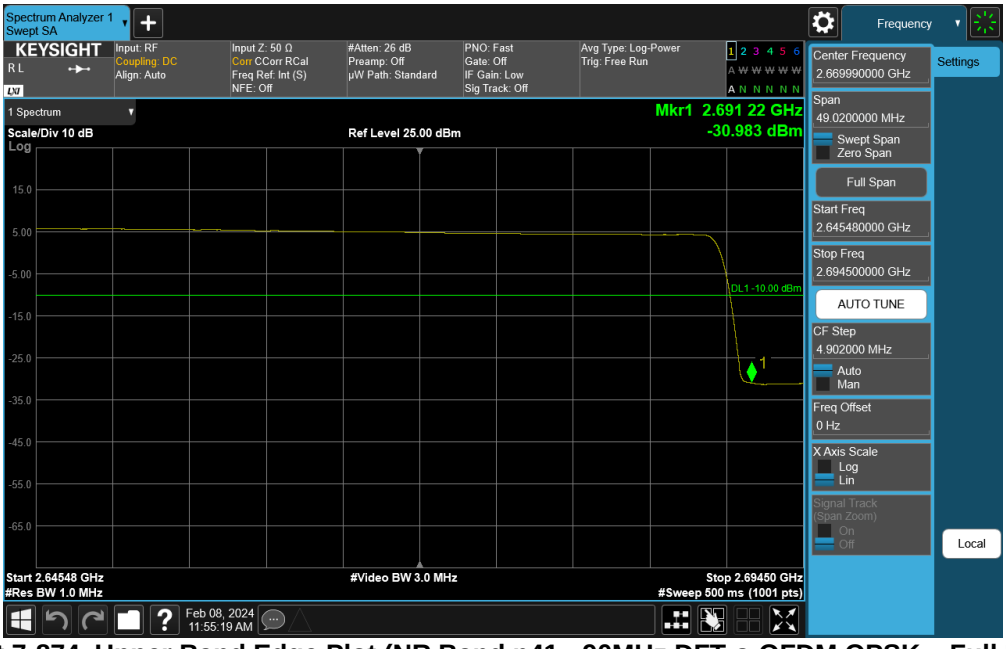
Plot 7-871. Upper Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)



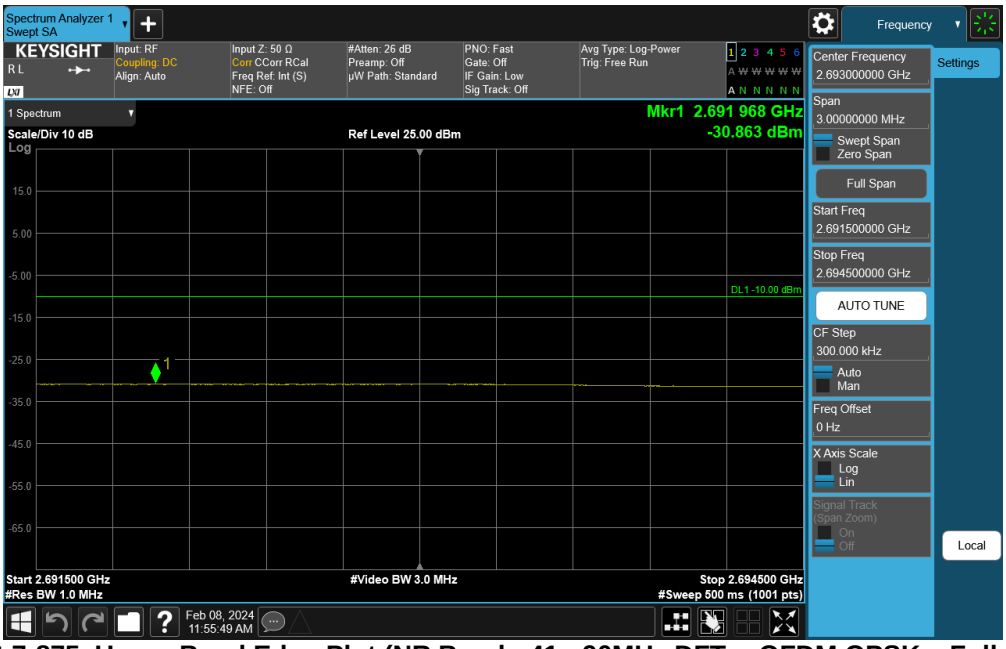
Plot 7-872. Upper Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)



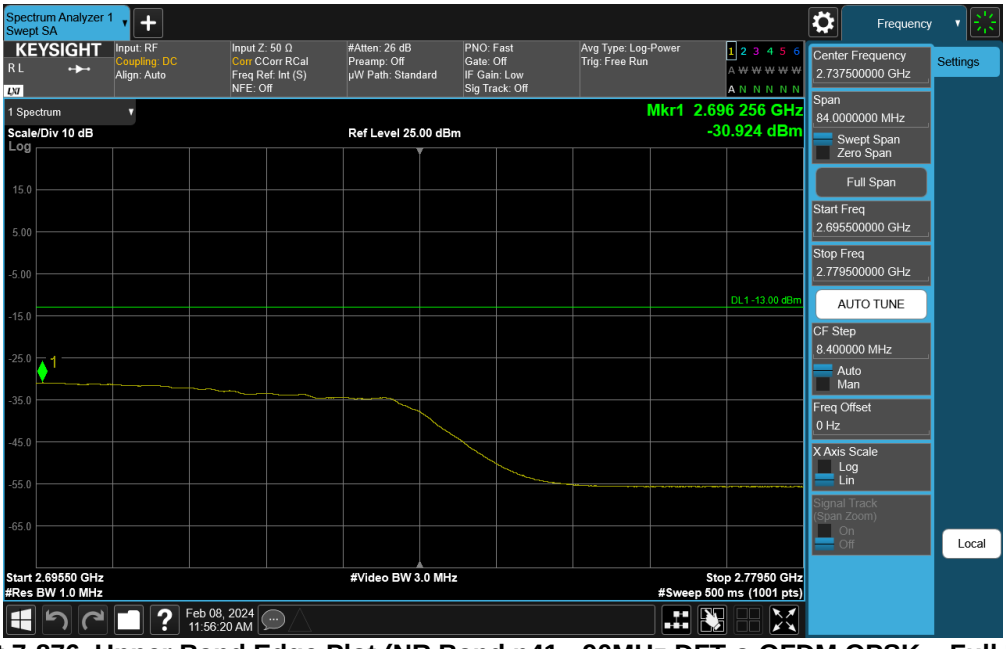
Plot 7-873. Upper Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)



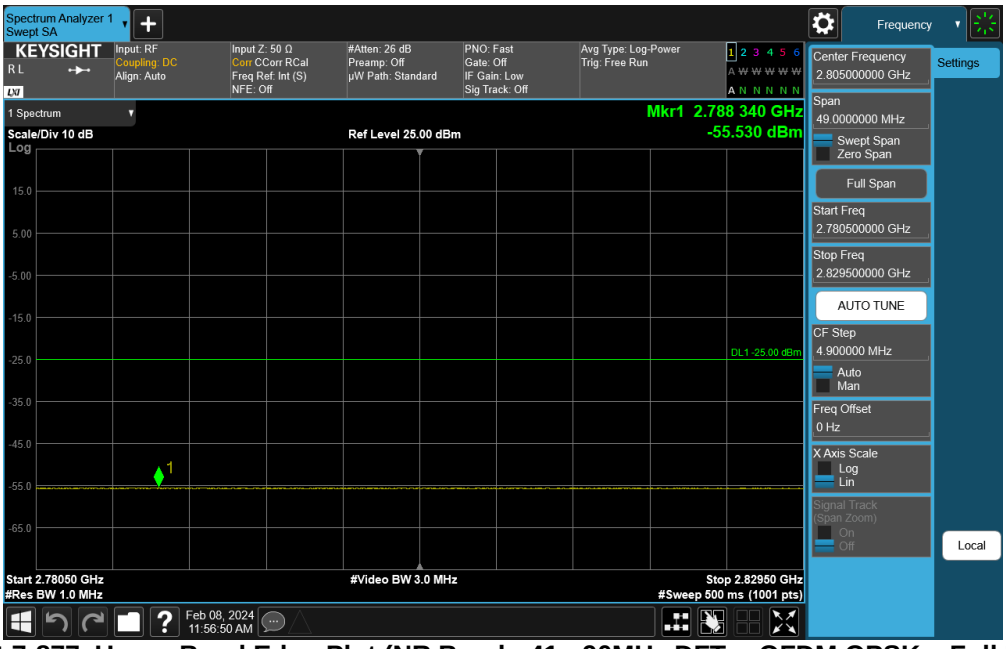
Plot 7-874. Upper Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)



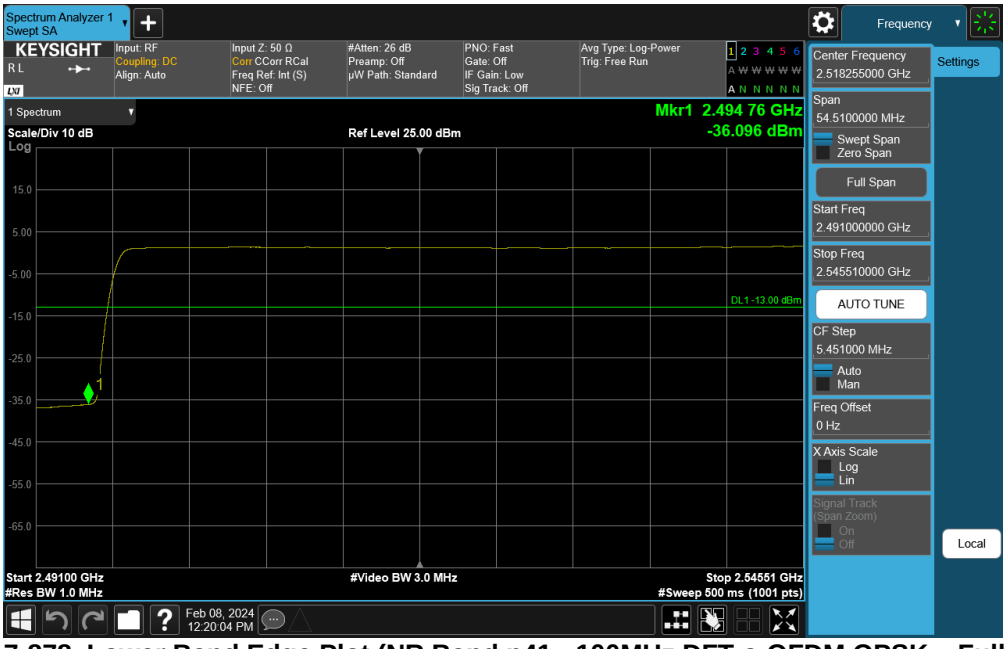
Plot 7-875. Upper Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)



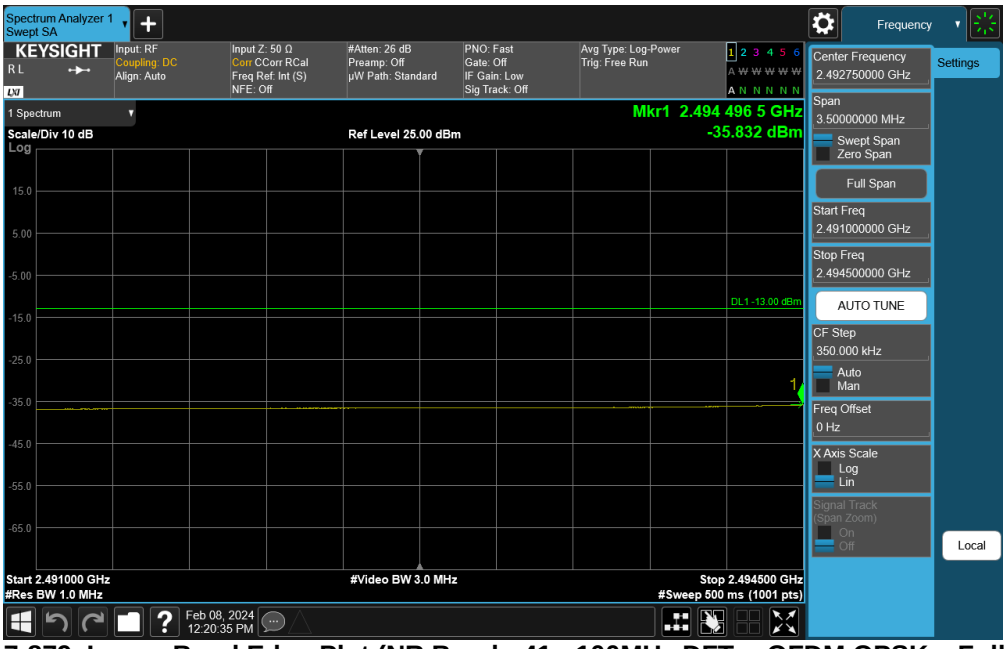
Plot 7-876. Upper Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)



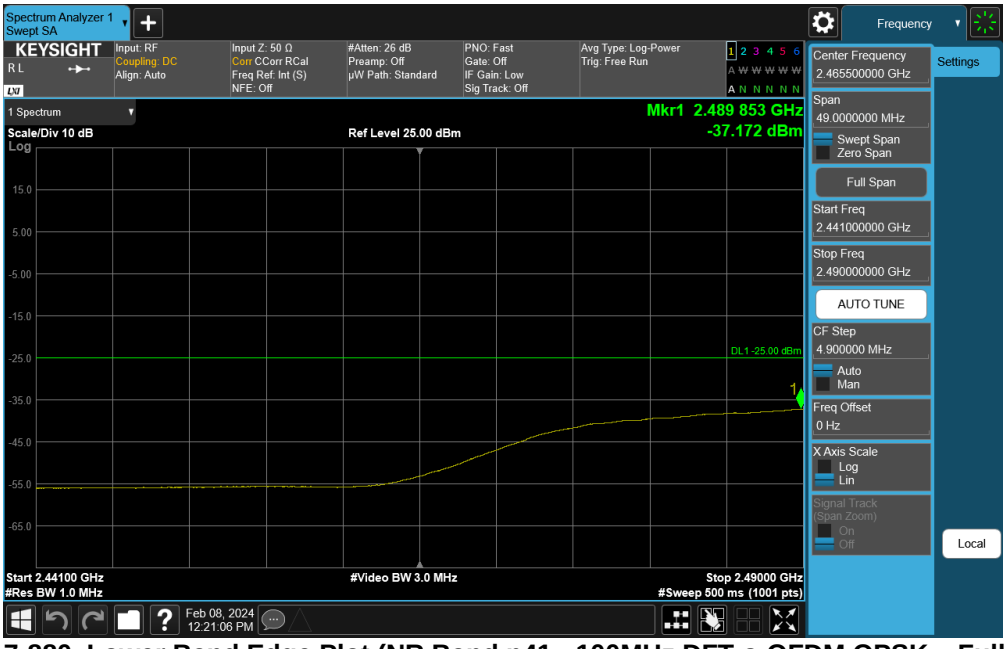
Plot 7-877. Upper Band Edge Plot (NR Band n41 - 90MHz DFT-s-OFDM QPSK – Full RB)



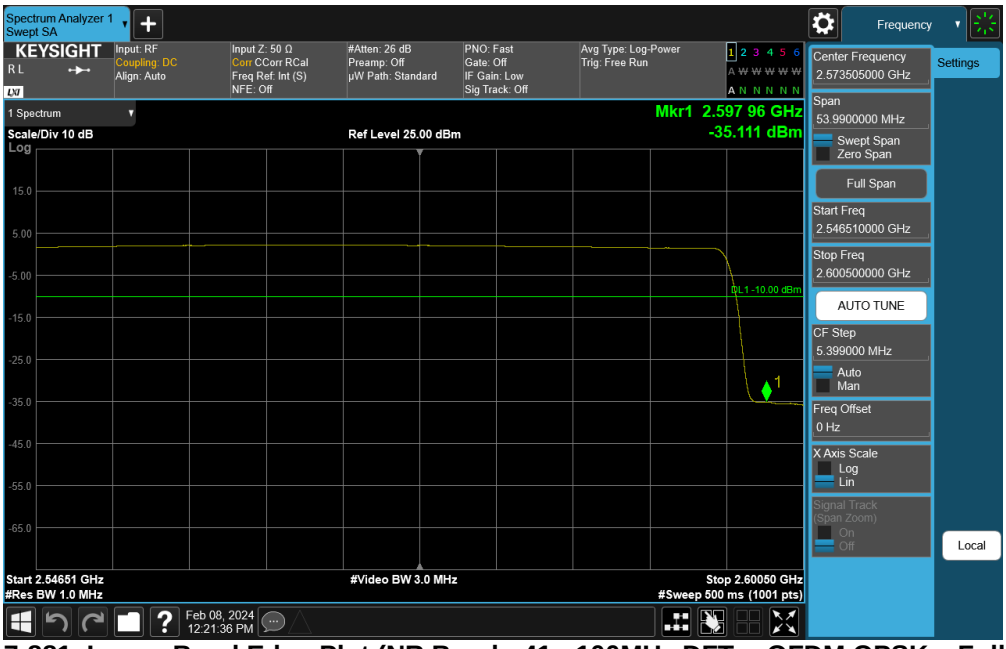
Plot 7-878. Lower Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)



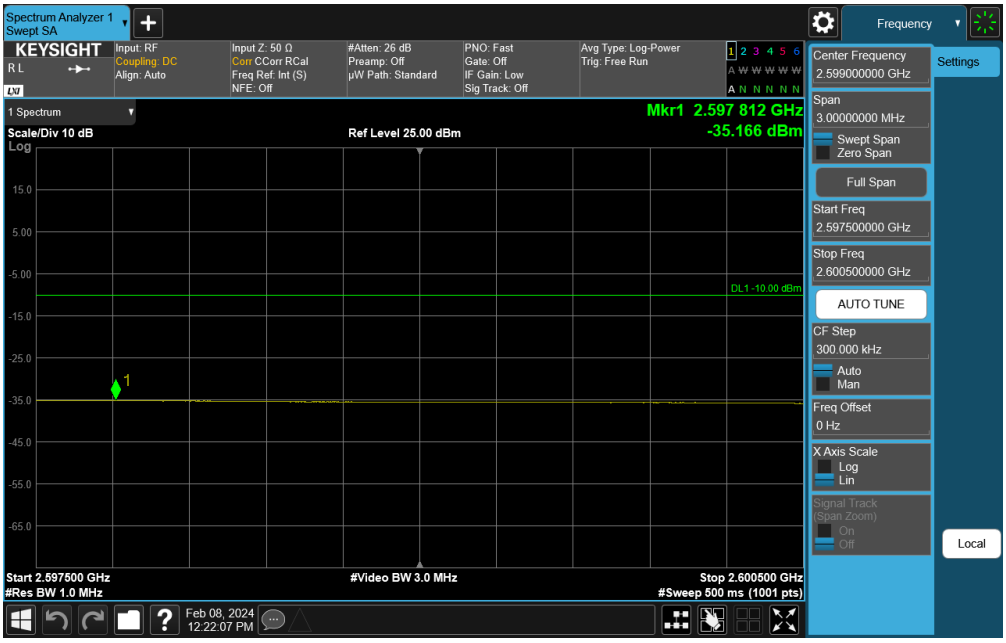
Plot 7-879. Lower Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)



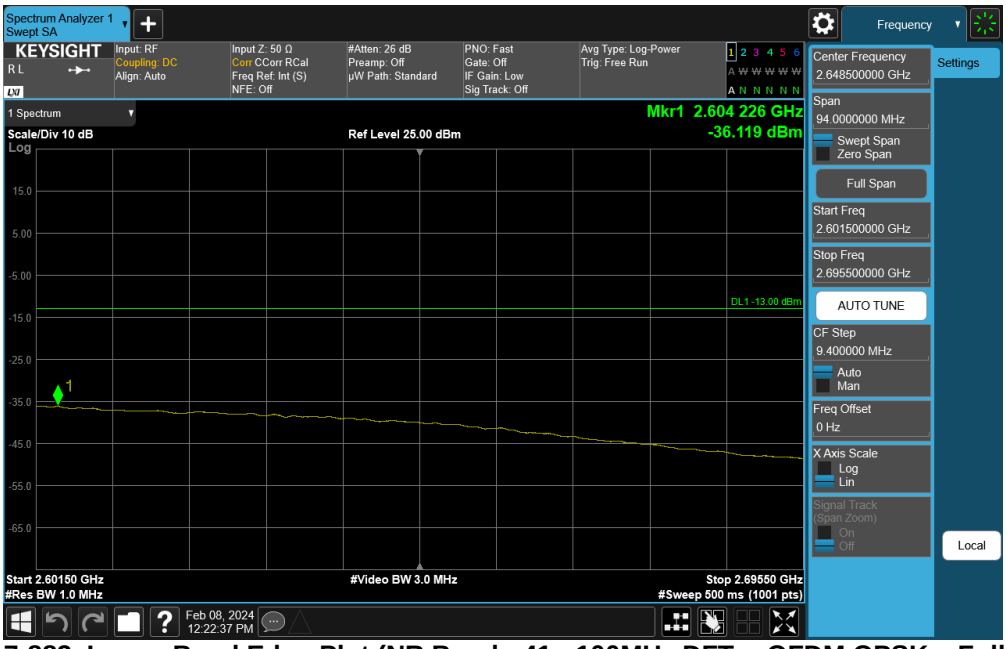
Plot 7-880. Lower Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)



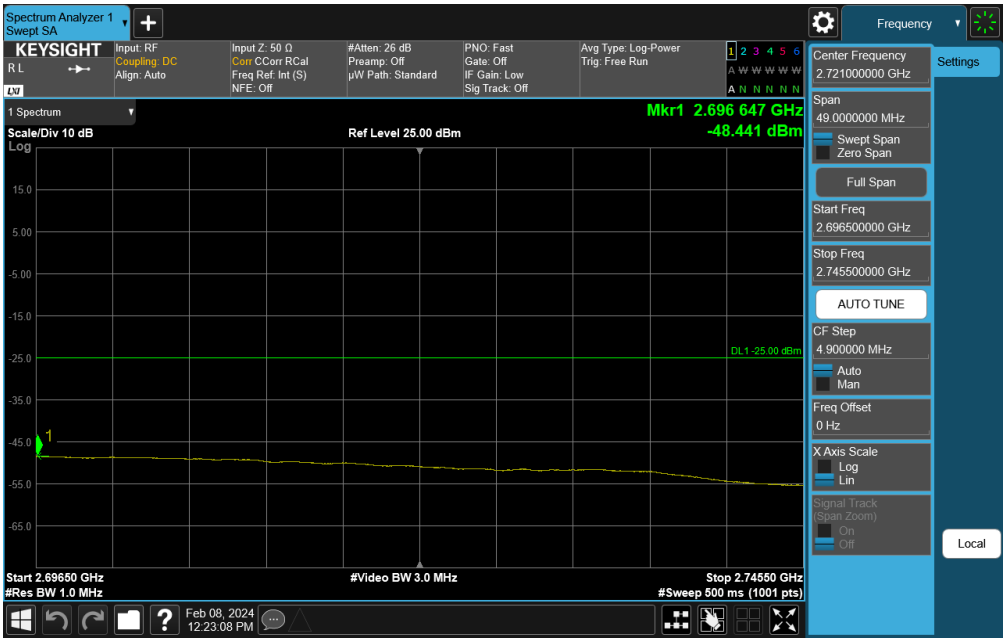
Plot 7-881. Lower Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)



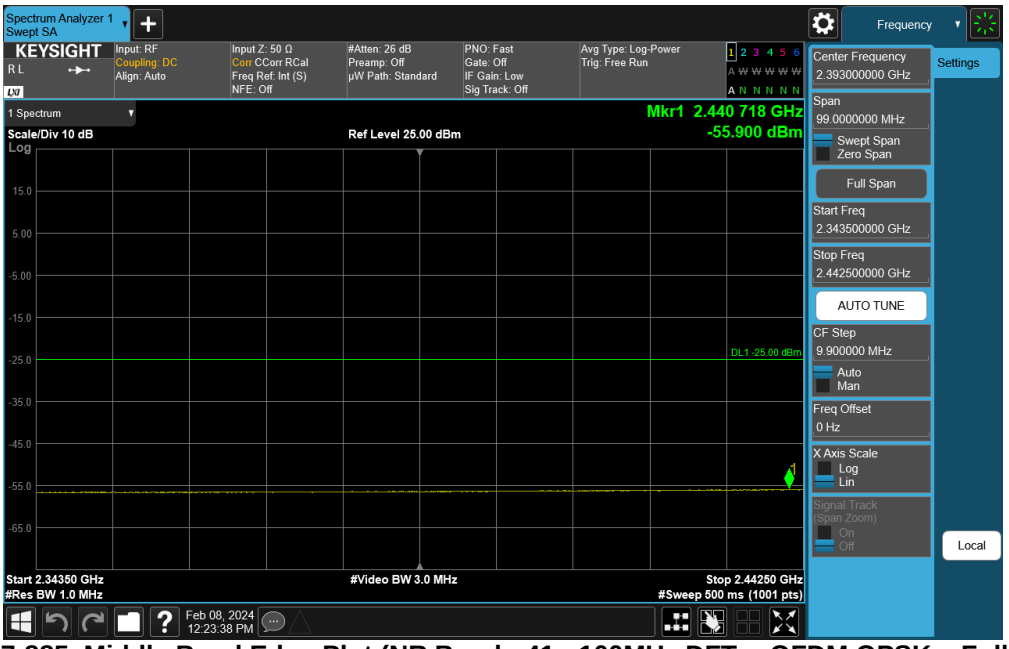
Plot 7-882. Lower Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)



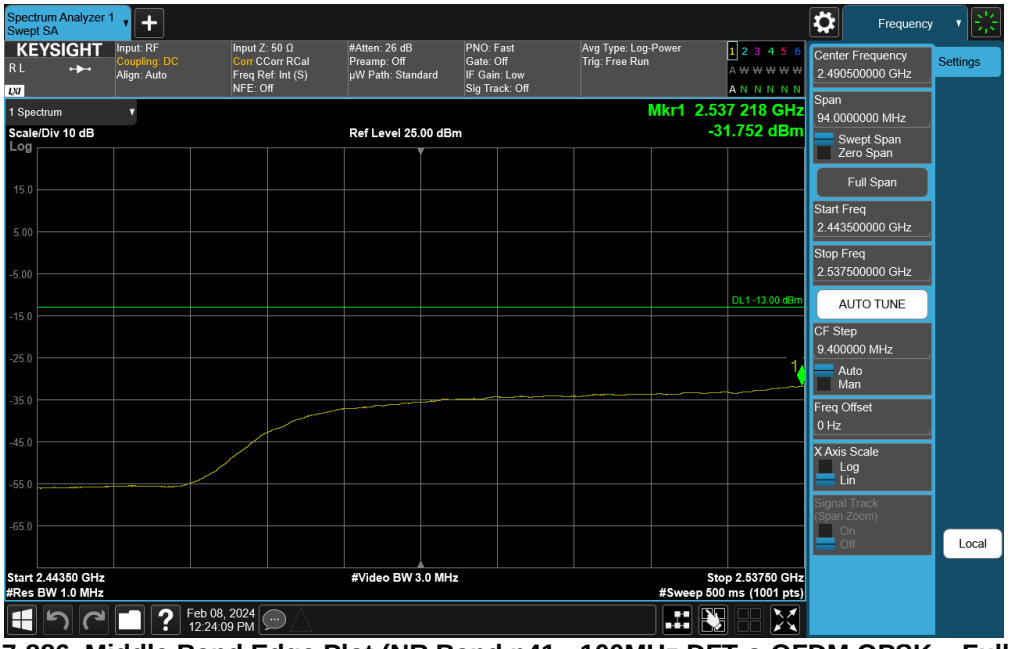
Plot 7-883. Lower Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)



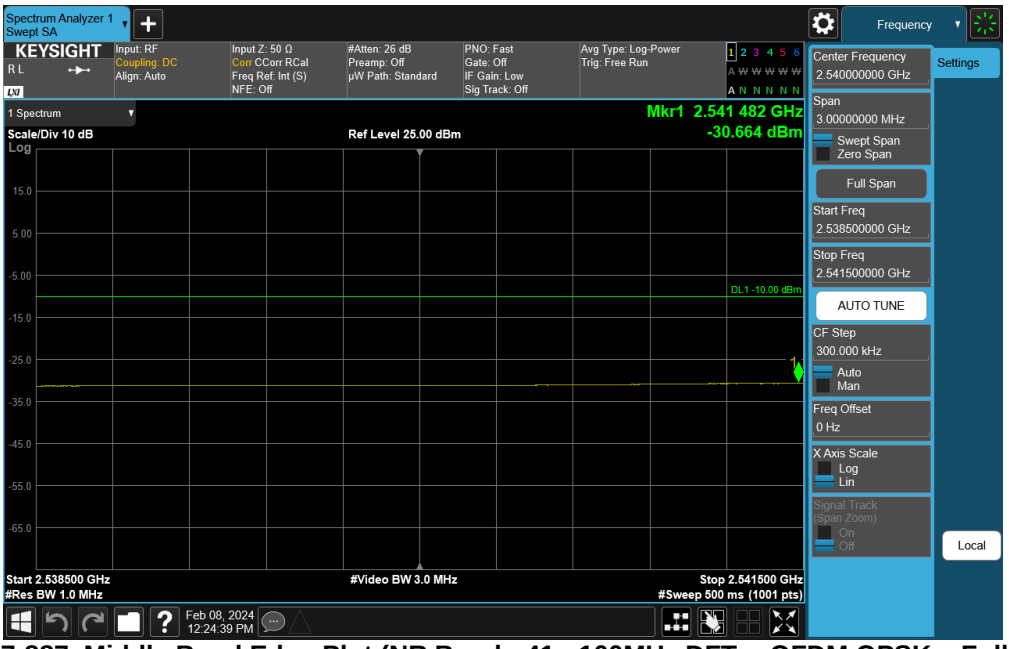
Plot 7-884. Lower Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)



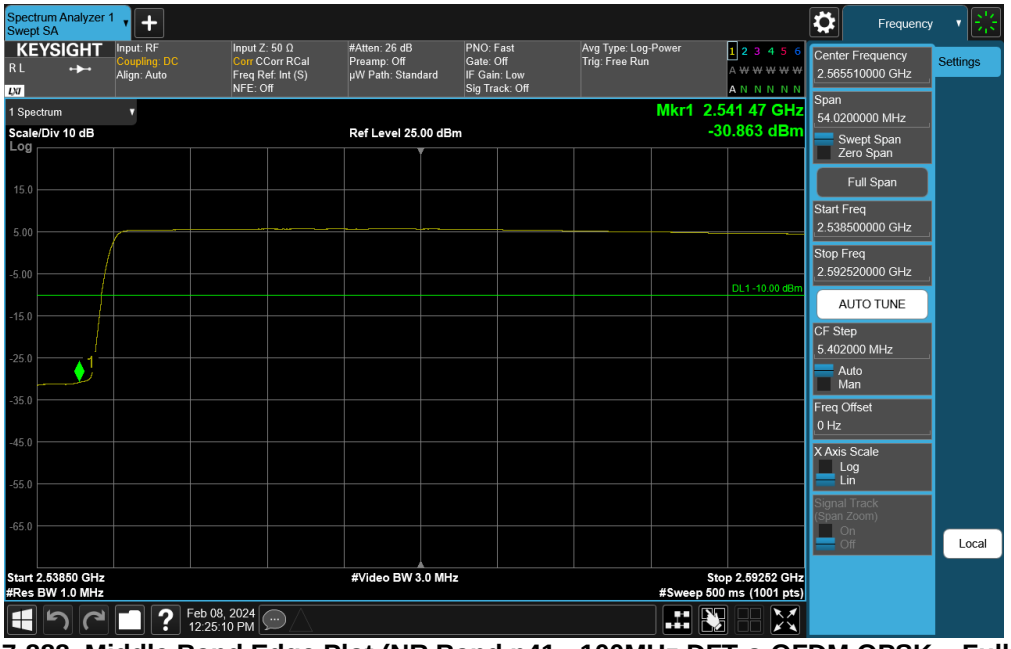
Plot 7-885. Middle Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)



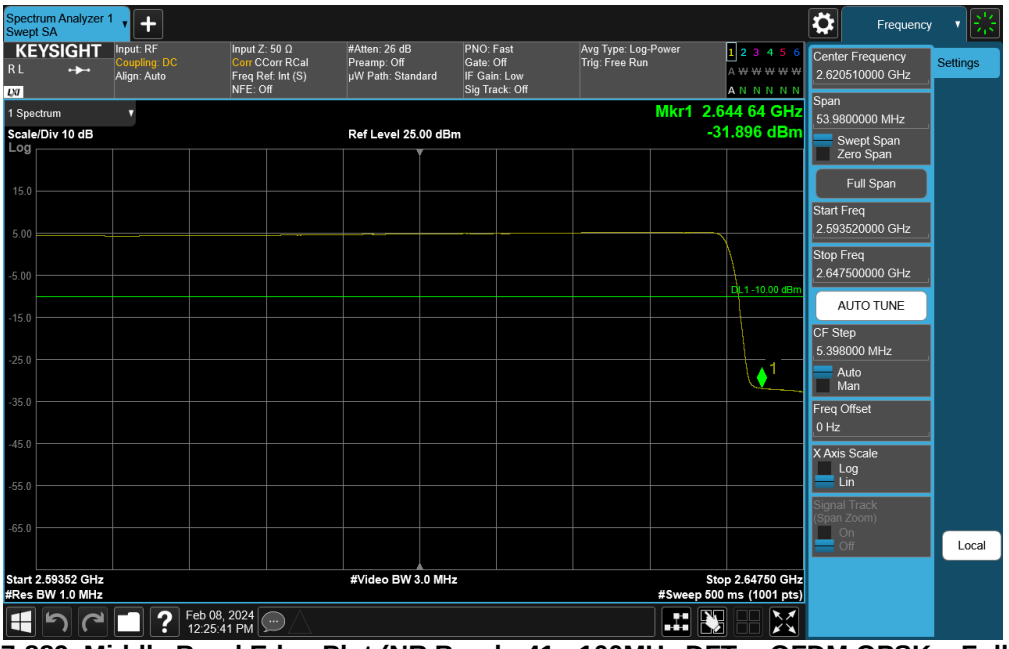
Plot 7-886. Middle Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)



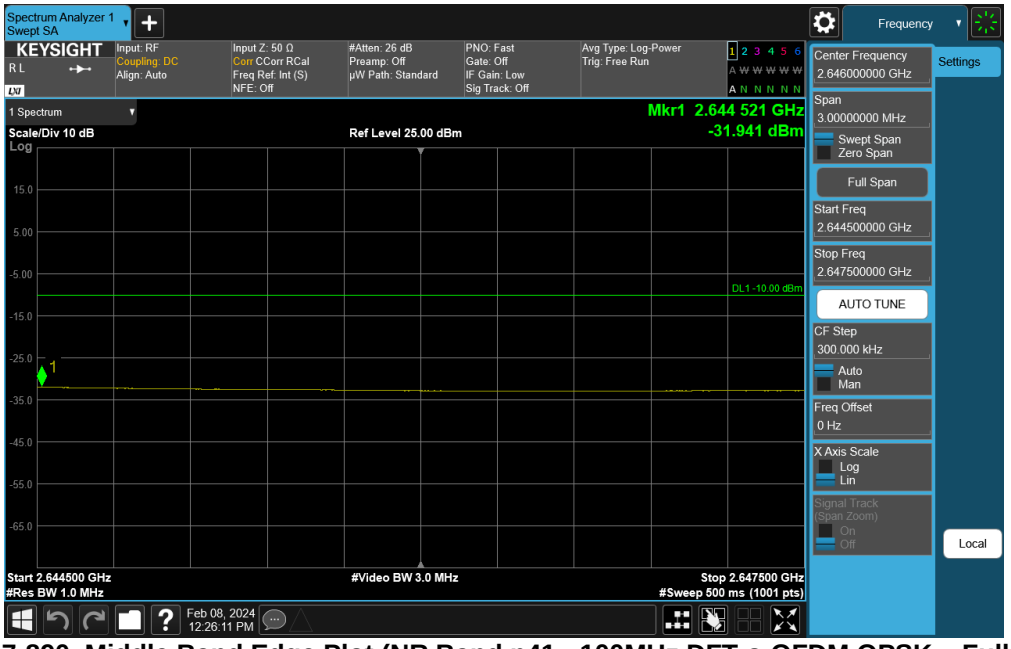
Plot 7-887. Middle Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)



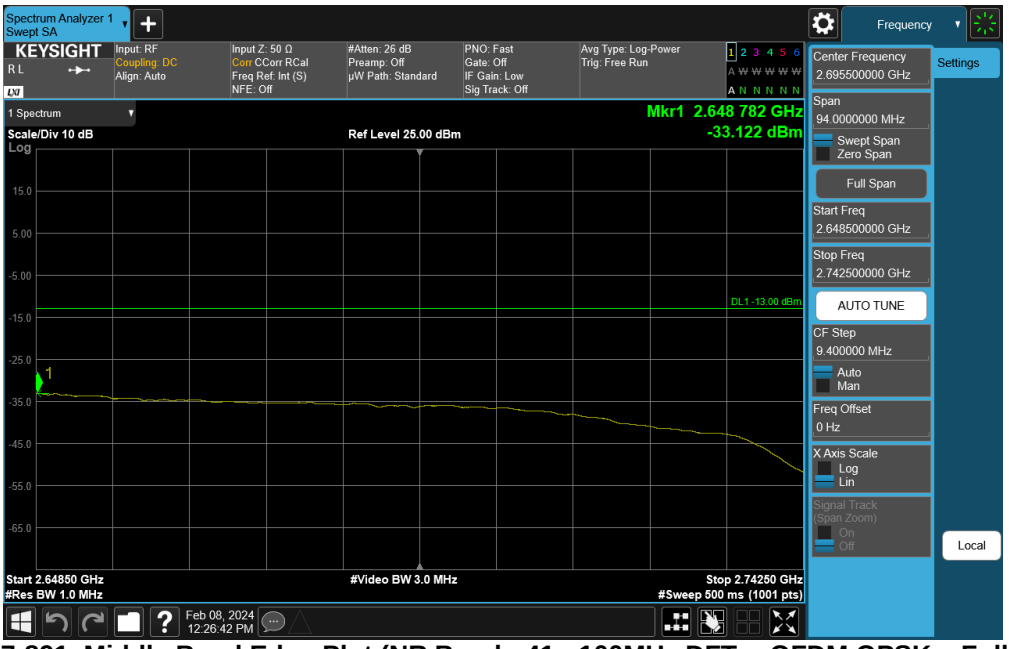
Plot 7-888. Middle Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)



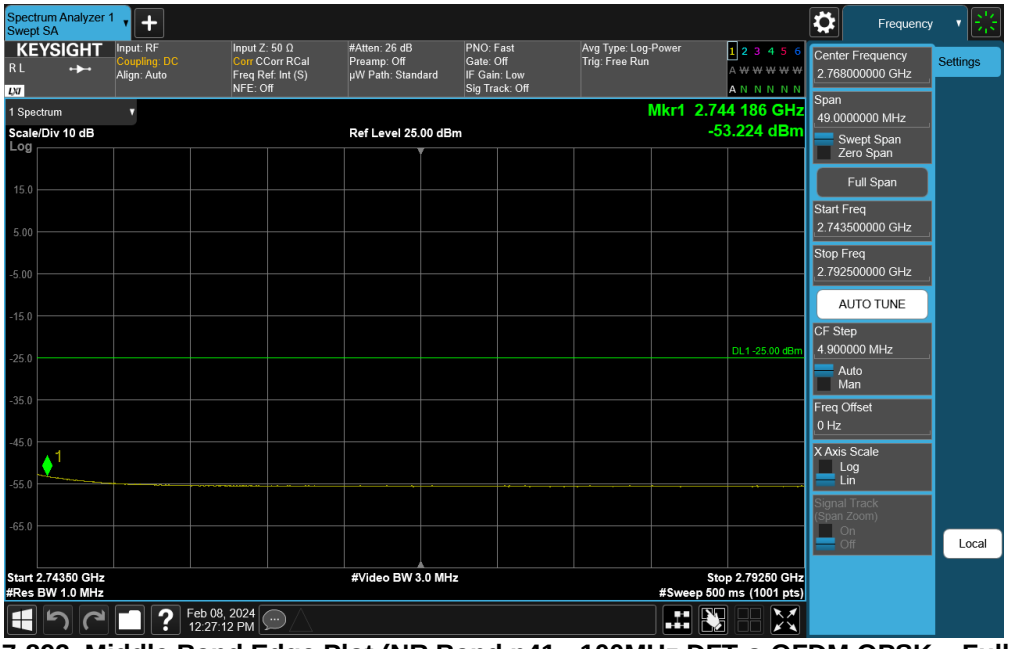
Plot 7-889. Middle Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)



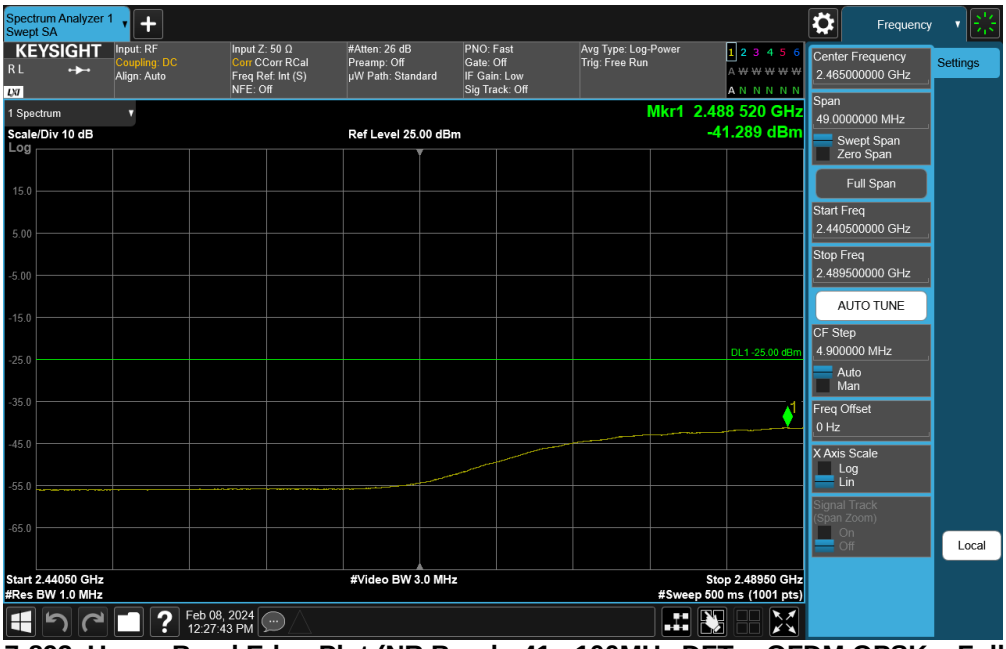
Plot 7-890. Middle Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)



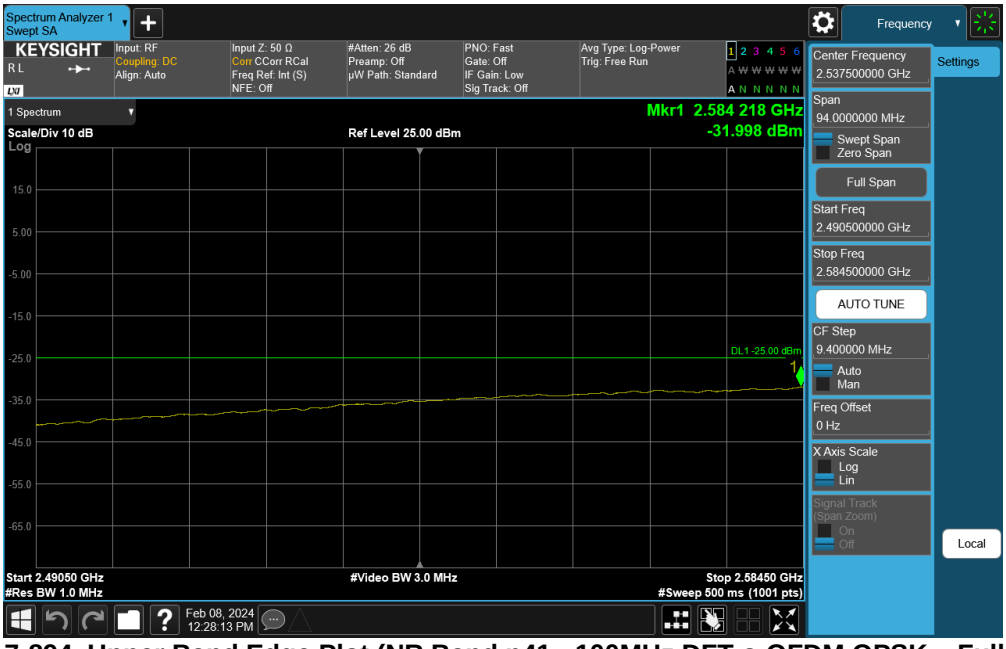
Plot 7-891. Middle Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)



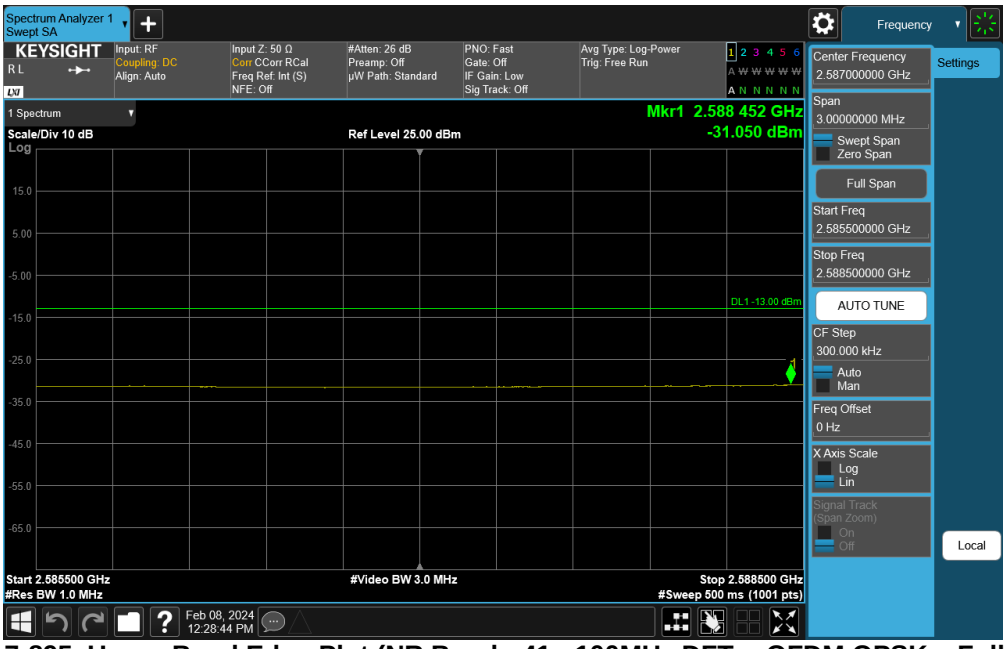
Plot 7-892. Middle Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)



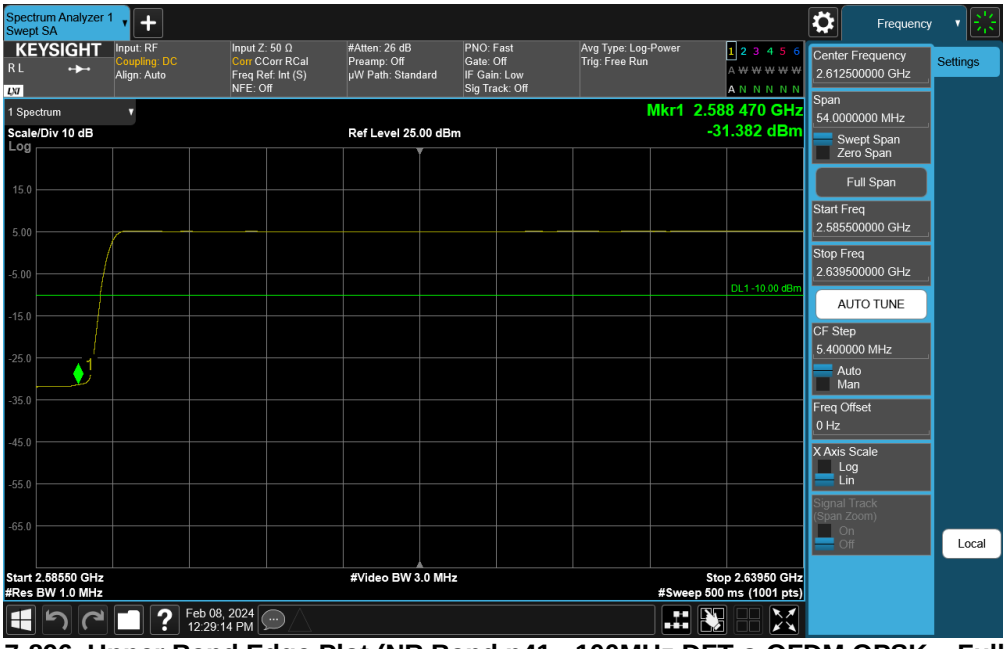
Plot 7-893. Upper Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)



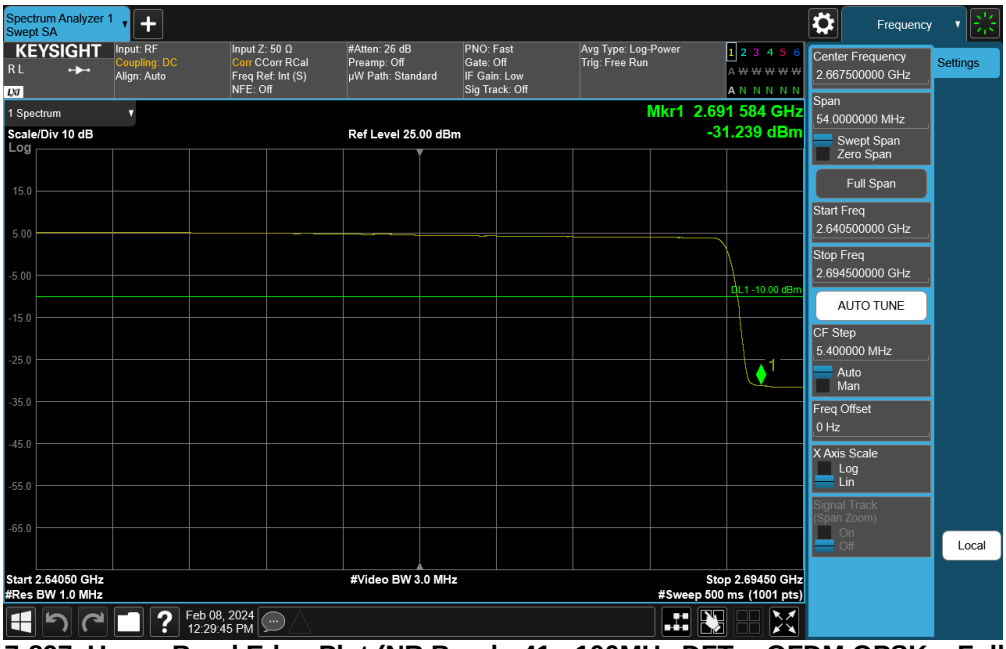
Plot 7-894. Upper Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)



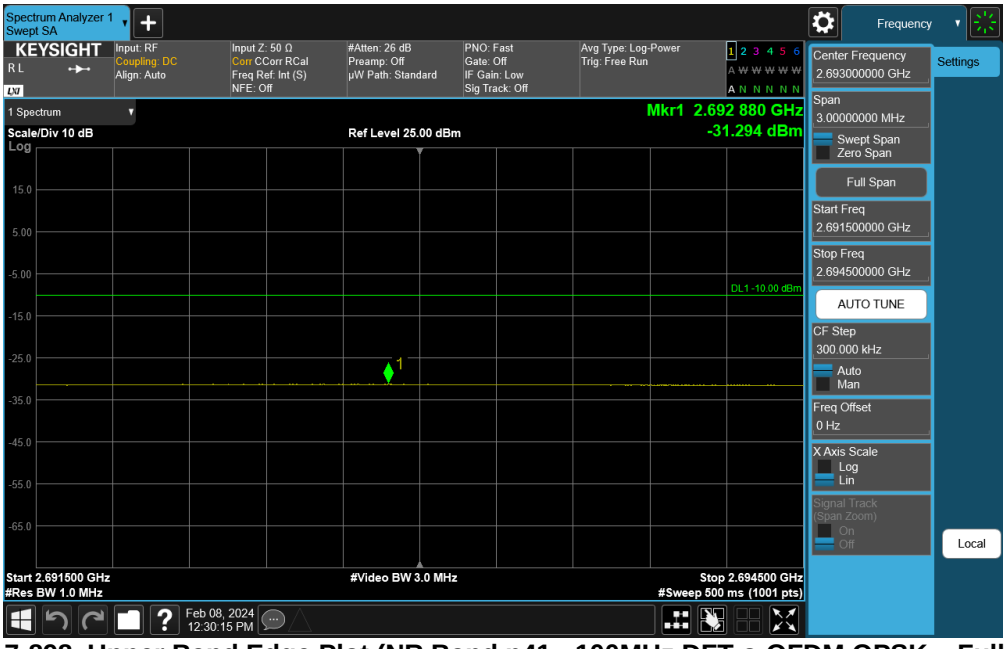
Plot 7-895. Upper Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)



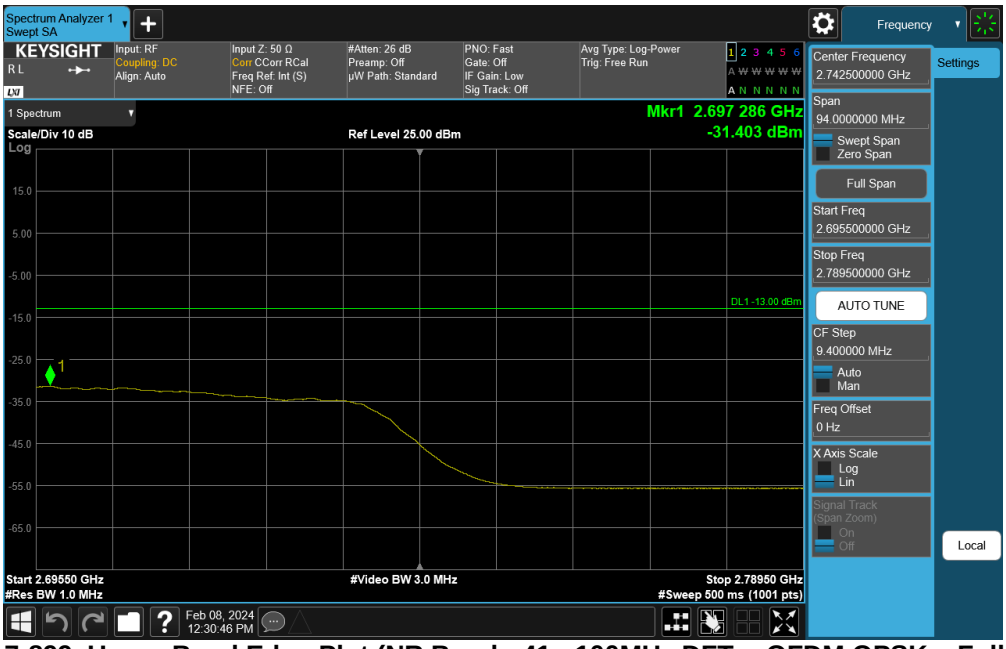
Plot 7-896. Upper Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)



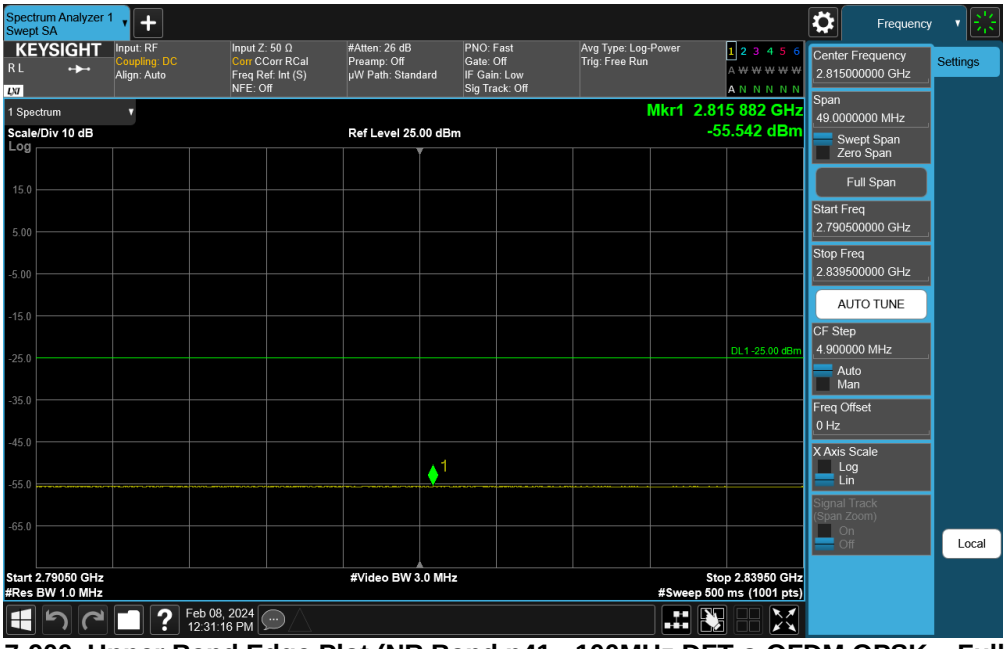
Plot 7-897. Upper Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)



Plot 7-898. Upper Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

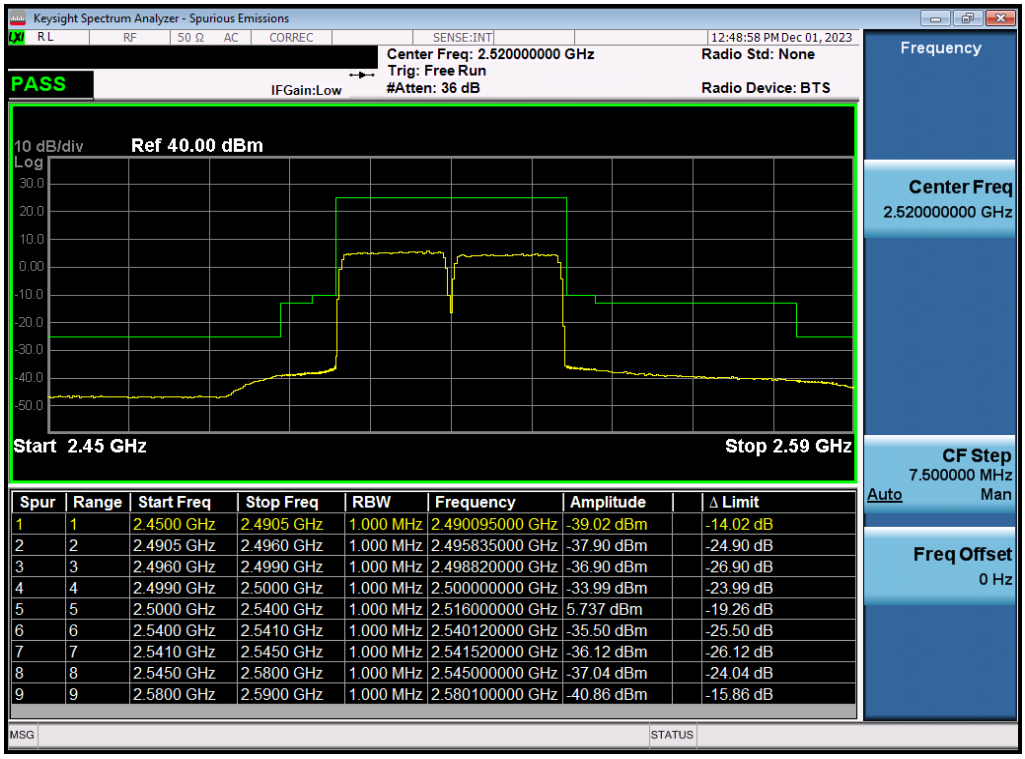


Plot 7-899. Upper Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)



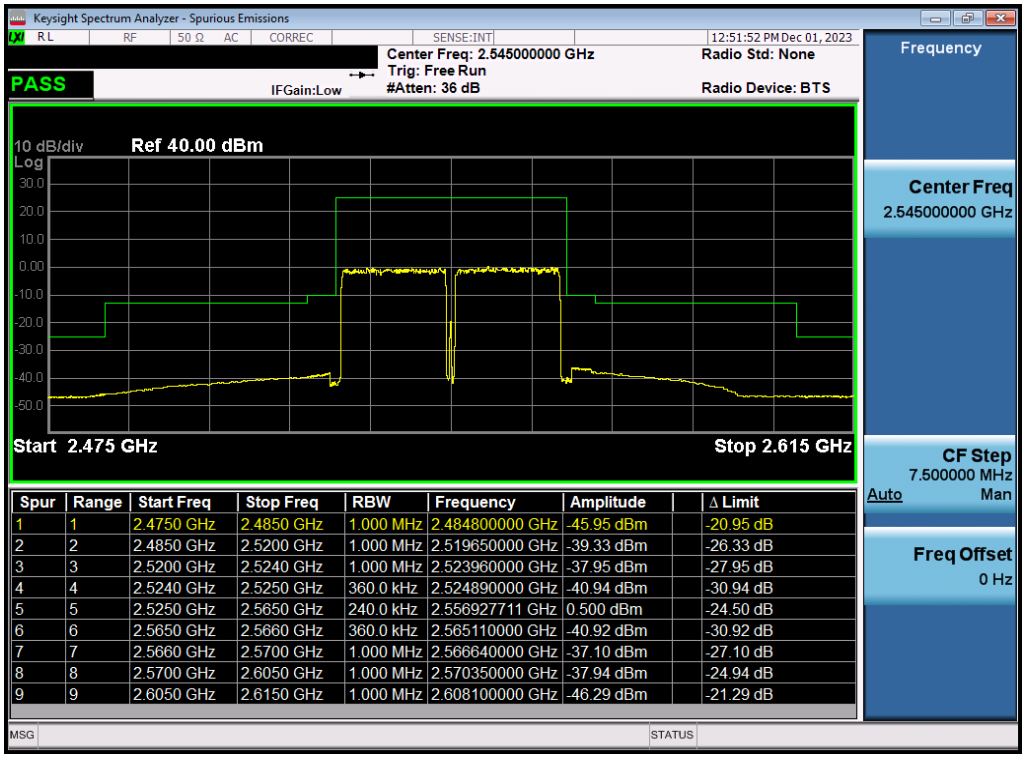
Plot 7-900. Upper Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – Full RB)

ULCA - LTE Band 7



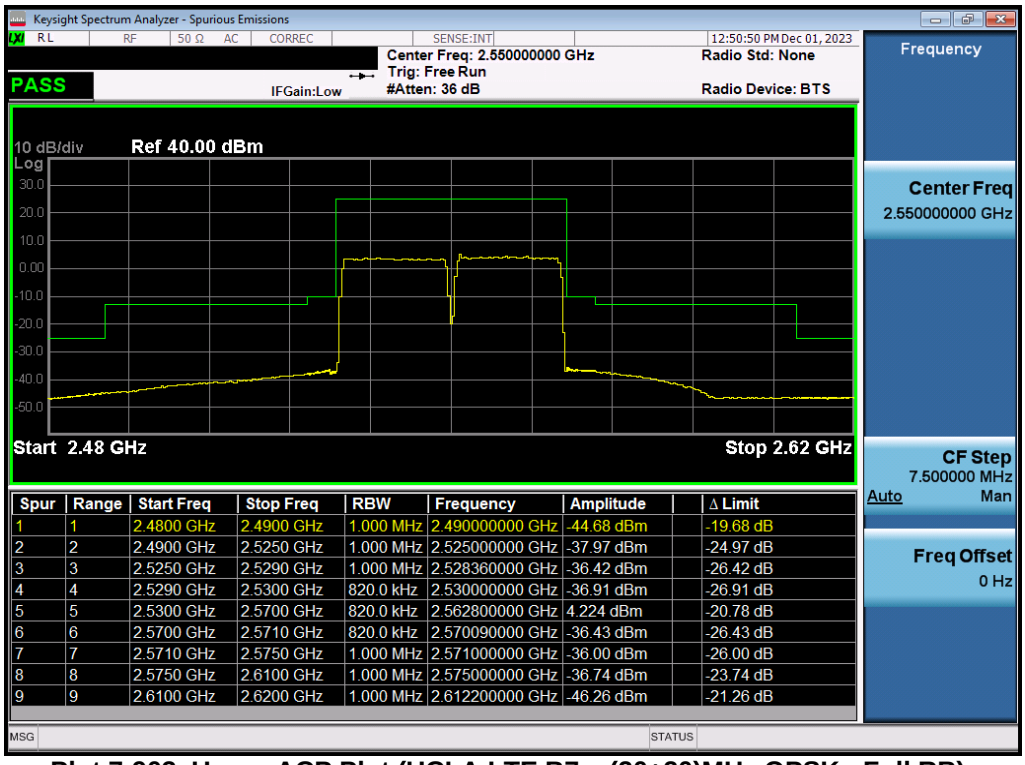
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.4500 GHz	2.4905 GHz	1.000 MHz	2.490095000 GHz	-39.02 dBm	-14.02 dB
2	2	2.4905 GHz	2.4960 GHz	1.000 MHz	2.495835000 GHz	-37.90 dBm	-24.90 dB
3	3	2.4960 GHz	2.4990 GHz	1.000 MHz	2.498820000 GHz	-36.90 dBm	-26.90 dB
4	4	2.4990 GHz	2.5000 GHz	1.000 MHz	2.500000000 GHz	-33.99 dBm	-23.99 dB
5	5	2.5000 GHz	2.5400 GHz	1.000 MHz	2.516000000 GHz	5.737 dBm	-19.26 dB
6	6	2.5400 GHz	2.5410 GHz	1.000 MHz	2.540120000 GHz	-35.50 dBm	-25.50 dB
7	7	2.5410 GHz	2.5450 GHz	1.000 MHz	2.541520000 GHz	-36.12 dBm	-26.12 dB
8	8	2.5450 GHz	2.5800 GHz	1.000 MHz	2.545000000 GHz	-37.04 dBm	-24.04 dB
9	9	2.5800 GHz	2.5900 GHz	1.000 MHz	2.580100000 GHz	-40.86 dBm	-15.86 dB

Plot 7-901. Lower ACP Plot (UCLA LTE B7 – (20+20)MHz QPSK - Full RB)



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.4750 GHz	2.4850 GHz	1.000 MHz	2.484800000 GHz	-45.95 dBm	-20.95 dB
2	2	2.4850 GHz	2.5200 GHz	1.000 MHz	2.519650000 GHz	-39.33 dBm	-26.33 dB
3	3	2.5200 GHz	2.5240 GHz	1.000 MHz	2.523960000 GHz	-37.95 dBm	-27.95 dB
4	4	2.5240 GHz	2.5250 GHz	360.0 kHz	2.524890000 GHz	-40.94 dBm	-30.94 dB
5	5	2.5250 GHz	2.5650 GHz	240.0 kHz	2.556927711 GHz	0.500 dBm	-24.50 dB
6	6	2.5650 GHz	2.5660 GHz	360.0 kHz	2.565110000 GHz	-40.92 dBm	-30.92 dB
7	7	2.5660 GHz	2.5700 GHz	1.000 MHz	2.566640000 GHz	-37.10 dBm	-27.10 dB
8	8	2.5700 GHz	2.6050 GHz	1.000 MHz	2.570350000 GHz	-37.94 dBm	-24.94 dB
9	9	2.6050 GHz	2.6150 GHz	1.000 MHz	2.608100000 GHz	-46.29 dBm	-21.29 dB

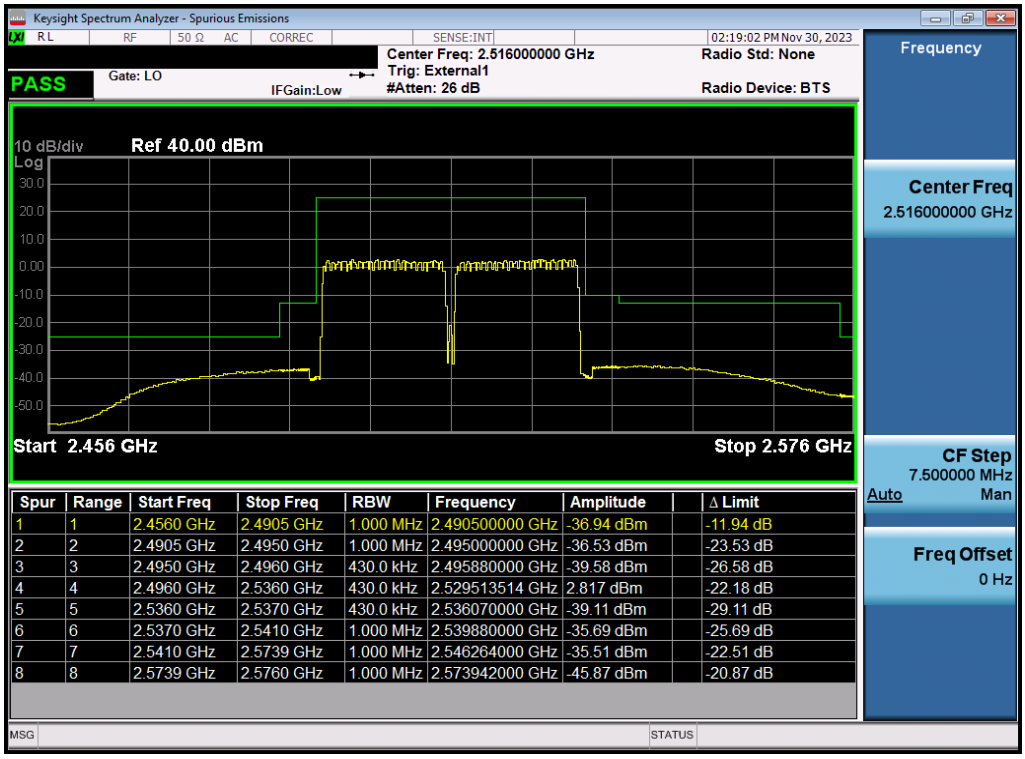
Plot 7-902. Middle ACP Plot (UCLA LTE B7 – (20+20)MHz QPSK - Full RB)



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.4800 GHz	2.4900 GHz	1.000 MHz	2.490000000 GHz	-44.68 dBm	-19.68 dB
2	2	2.4900 GHz	2.5250 GHz	1.000 MHz	2.525000000 GHz	-37.97 dBm	-24.97 dB
3	3	2.5250 GHz	2.5290 GHz	1.000 MHz	2.528360000 GHz	-36.42 dBm	-26.42 dB
4	4	2.5290 GHz	2.5300 GHz	820.0 kHz	2.530000000 GHz	-36.91 dBm	-26.91 dB
5	5	2.5300 GHz	2.5700 GHz	820.0 kHz	2.562800000 GHz	4.224 dBm	-20.78 dB
6	6	2.5700 GHz	2.5710 GHz	820.0 kHz	2.570090000 GHz	-36.43 dBm	-26.43 dB
7	7	2.5710 GHz	2.5750 GHz	1.000 MHz	2.571000000 GHz	-36.00 dBm	-26.00 dB
8	8	2.5750 GHz	2.6100 GHz	1.000 MHz	2.575000000 GHz	-36.74 dBm	-23.74 dB
9	9	2.6100 GHz	2.6200 GHz	1.000 MHz	2.612200000 GHz	-46.26 dBm	-21.26 dB

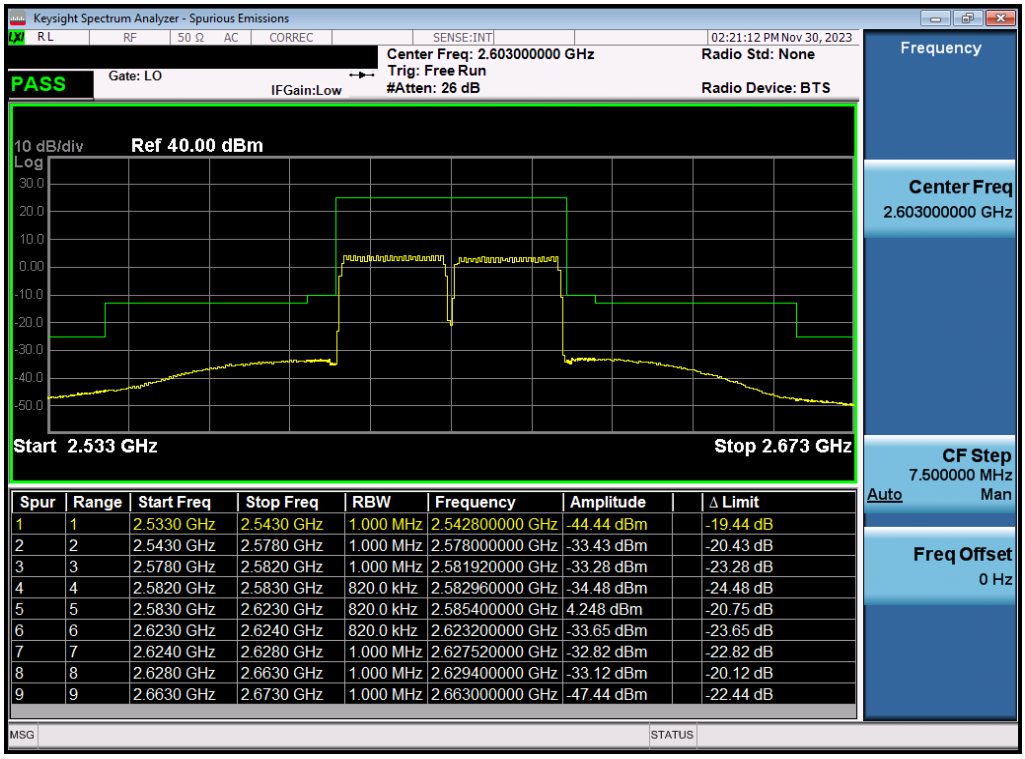
Plot 7-903. Upper ACP Plot (UCLA LTE B7 – (20+20)MHz QPSK - Full RB)

ULCA - LTE Band 41



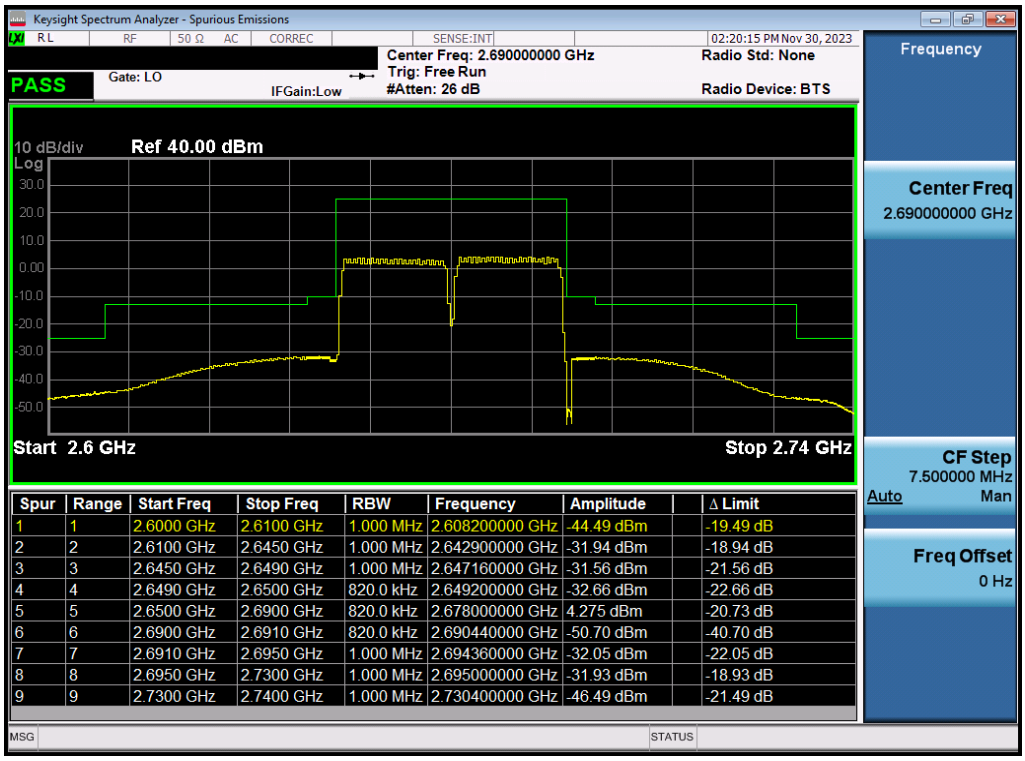
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.4560 GHz	2.4905 GHz	1.000 MHz	2.490500000 GHz	-36.94 dBm	-11.94 dB
2	2	2.4905 GHz	2.4950 GHz	1.000 MHz	2.495000000 GHz	-36.53 dBm	-23.53 dB
3	3	2.4950 GHz	2.4960 GHz	430.0 kHz	2.495880000 GHz	-39.58 dBm	-26.58 dB
4	4	2.4960 GHz	2.5360 GHz	430.0 kHz	2.529513514 GHz	2.817 dBm	-22.18 dB
5	5	2.5360 GHz	2.5370 GHz	430.0 kHz	2.536070000 GHz	-39.11 dBm	-29.11 dB
6	6	2.5370 GHz	2.5410 GHz	1.000 MHz	2.539880000 GHz	-35.69 dBm	-25.69 dB
7	7	2.5410 GHz	2.5739 GHz	1.000 MHz	2.546264000 GHz	-35.51 dBm	-22.51 dB
8	8	2.5739 GHz	2.5760 GHz	1.000 MHz	2.573942000 GHz	-45.87 dBm	-20.87 dB

Plot 7-904. Lower ACP Plot (UCLA LTE B41 – (20+20)MHz QPSK - Full RB)



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.5330 GHz	2.5430 GHz	1.000 MHz	2.542800000 GHz	-44.44 dBm	-19.44 dB
2	2	2.5430 GHz	2.5780 GHz	1.000 MHz	2.578000000 GHz	-33.43 dBm	-20.43 dB
3	3	2.5780 GHz	2.5820 GHz	1.000 MHz	2.581920000 GHz	-33.28 dBm	-23.28 dB
4	4	2.5820 GHz	2.5830 GHz	820.0 kHz	2.582960000 GHz	-34.48 dBm	-24.48 dB
5	5	2.5830 GHz	2.6230 GHz	820.0 kHz	2.585400000 GHz	4.248 dBm	-20.75 dB
6	6	2.6230 GHz	2.6240 GHz	820.0 kHz	2.623200000 GHz	-33.65 dBm	-23.65 dB
7	7	2.6240 GHz	2.6280 GHz	1.000 MHz	2.627520000 GHz	-32.82 dBm	-22.82 dB
8	8	2.6280 GHz	2.6630 GHz	1.000 MHz	2.629400000 GHz	-33.12 dBm	-20.12 dB
9	9	2.6630 GHz	2.6730 GHz	1.000 MHz	2.663000000 GHz	-47.44 dBm	-22.44 dB

Plot 7-905. Middle ACP Plot (UCLA LTE B41 – (20+20)MHz QPSK - Full RB)



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.6000 GHz	2.6100 GHz	1.000 MHz	2.608200000 GHz	-44.49 dBm	-19.49 dB
2	2	2.6100 GHz	2.6450 GHz	1.000 MHz	2.642900000 GHz	-31.94 dBm	-18.94 dB
3	3	2.6450 GHz	2.6490 GHz	1.000 MHz	2.647160000 GHz	-31.56 dBm	-21.56 dB
4	4	2.6490 GHz	2.6500 GHz	820.0 kHz	2.649200000 GHz	-32.66 dBm	-22.66 dB
5	5	2.6500 GHz	2.6900 GHz	820.0 kHz	2.678000000 GHz	4.275 dBm	-20.73 dB
6	6	2.6900 GHz	2.6910 GHz	820.0 kHz	2.690440000 GHz	-50.70 dBm	-40.70 dB
7	7	2.6910 GHz	2.6950 GHz	1.000 MHz	2.694360000 GHz	-32.05 dBm	-22.05 dB
8	8	2.6950 GHz	2.7300 GHz	1.000 MHz	2.695000000 GHz	-31.93 dBm	-18.93 dB
9	9	2.7300 GHz	2.7400 GHz	1.000 MHz	2.730400000 GHz	-46.49 dBm	-21.49 dB

Plot 7-906. Upper ACP Plot (UCLA LTE B41 – (20+20)MHz QPSK - Full RB)

7.5 Additional Maximum Power Reduction (A-MPR)

§2.1046

Test Overview

A-MPR is implemented in this device when operating at Power Class 2 in LTE Band 41 per the A-MPR specification in 3GPP TS 36.101. The conducted powers are shown herein to cover the different A-MPR levels specified in the standard. Conducted power measurements are performed to measure the average output power of the EUT. The averaging is to be performed only over duration of active transmissions at maximum output power level. The average measurements do not include averaging over periods when the transmitter is quiescent or when operating at reduced power level. All ports were tested and only the worst case data were reported.

Test Procedure Used

KDB 971168 D01 v03

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below

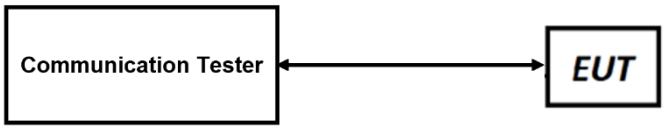


Figure 7-4. Conducted Power Measurement Setup

Test Notes

None.

Test Case	NS	MCC	MNC	Channel BW [MHz]	Channel Number	Channel Frequency [MHz]	RB Size	RB Offset	A-MPR [dB]	Modulation	MPR [dB]	Measured Power [dBm]	Lowest Typical Power [dBm]	Delta [dB]
1	01	312	530	5	39675	2498.5	1	0	3	QPSK	0	25.69	24.7	**0.99**
										16-QAM	1	25.15	23.7	**1.45**
										64-QAM	2	24.35	22.7	**1.65**
										256-QAM	4	23.56	20.7	**2.86**
2				5	39675	2498.5	1	9	0	QPSK	0	28.51	27.7	**0.81**
										16-QAM	1	28.31	26.7	**1.61**
										64-QAM	2	27.54	25.7	**1.84**
										256-QAM	4	24.36	23.7	**0.66**
3				10	39700	2501	1	0	5	QPSK	0	23.80	22.7	**1.10**
										16-QAM	1	23.37	21.7	**1.67**
										64-QAM	2	22.31	20.7	**1.61**
										256-QAM	4	19.22	18.7	**0.52**
4				10	39700	2501	20	0	2	QPSK	0	26.16	25.7	**0.46**
										16-QAM	1	25.39	24.7	**0.69**
										64-QAM	2	24.50	23.7	**0.80**
										256-QAM	4	22.18	21.7	**0.48**
5				10	39700	2501	50	0	3	QPSK	0	25.36	24.7	**0.66**
										16-QAM	1	24.42	23.7	**0.72**
										64-QAM	2	23.15	22.7	**0.45**
										256-QAM	4	21.32	20.7	**0.62**
6				10	39700	2501	25	20	1	QPSK	0	27.39	26.7	**0.69**
										16-QAM	1	26.13	25.7	**0.43**
										64-QAM	2	25.25	24.7	**0.55**
										256-QAM	4	24.19	22.7	**1.49**
7				10	39700	2501	1	36	0	QPSK	0	28.67	27.7	**0.97**
										16-QAM	1	28.28	26.7	**1.58**
										64-QAM	2	27.30	25.7	**1.60**
										256-QAM	4	24.22	23.7	**0.52**
8				15	39725	2503.5	1	0	5	QPSK	0	23.61	22.7	**0.91**
										16-QAM	1	22.91	21.7	**1.21**
										64-QAM	2	22.06	20.7	**1.36**
										256-QAM	4	19.13	18.7	**0.43**
9				15	39725	2503.5	20	0	2	QPSK	0	26.13	25.7	**0.43**
										16-QAM	1	25.04	24.7	**0.34**
										64-QAM	2	24.26	23.7	**0.56**
										256-QAM	4	22.28	21.7	**0.58**
10				15	39725	2503.5	75	0	4	QPSK	0	24.08	23.7	**0.38**
										16-QAM	1	23.07	22.7	**0.37**
										64-QAM	2	22.27	21.7	**0.57**
										256-QAM	4	20.11	19.7	**0.41**
11				15	39725	2503.5	50	15	3	QPSK	0	25.23	24.7	**0.53**
										16-QAM	1	24.30	23.7	**0.60**
										64-QAM	2	23.18	22.7	**0.48**
										256-QAM	4	21.18	20.7	**0.48**
12				15	39725	2503.5	1	60	0	QPSK	0	28.52	27.7	**0.82**
										16-QAM	1	28.31	26.7	**1.61**
										64-QAM	2	27.50	25.7	**1.80**
										256-QAM	4	24.05	23.7	**0.35**
13				20	39750	2506	1	0	5	QPSK	0	23.50	22.7	**0.80**
										16-QAM	1	23.06	21.7	**1.36**
										64-QAM	2	21.98	20.7	**1.28**
										256-QAM	4	19.19	18.7	**0.49**
14				20	39750	2506	20	0	2	QPSK	0	26.04	25.7	**0.34**
										16-QAM	1	24.99	24.7	**0.29**
										64-QAM	2	24.15	23.7	**0.45**
										256-QAM	4	22.09	21.7	**0.39**
15				20	39750	2506	100	0	4	QPSK	0	24.10	23.7	**0.40**
										16-QAM	1	23.07	22.7	**0.37**
										64-QAM	2	22.10	21.7	**0.40**
										256-QAM	4	20.05	19.7	**0.35**
16				20	39750	2506	75	24	3	QPSK	0	25.10	24.7	**0.40**
										16-QAM	1	24.21	23.7	**0.51**
										64-QAM	2	23.09	22.7	**0.39**
										256-QAM	4	21.10	20.7	**0.40**
17				20	39750	2506	1	77	0	QPSK	0	28.58	27.7	**0.88**
										16-QAM	1	28.26	26.7	**1.56**
										64-QAM	2	27.40	25.7	**1.70**
										256-QAM	4	23.94	23.7	**0.24**
18	01	311	490	5	39675	2498.5	1	0	3	QPSK	0	25.58	24.7	**0.88**
										16-QAM	1	25.29	23.7	**1.59**
										64-QAM	2	24.55	22.7	**1.85**
										256-QAM	4	21.14	20.7	**0.44**
19	01	001	01	5	39675	2498.5	1	0	0	QPSK	0	28.61	27.7	**0.91**
										16-QAM	1	28.44	26.7	**1.74**
										64-QAM	2	27.25	25.7	**1.55**
										256-QAM	4	24.11	23.7	**0.41**

Table 7-2. A-MPR Conducted Power Measurements

7.6 Radiated Power (EIRP)

§27.50(a)(3), §27.50(h)(2)

Test Overview

Equivalent Isotropic Radiated Power (EIRP) measurements are calculated by adding highest antenna gain to maximum measured conducted output power. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.2.1

ANSI C63.26-2015 – Section 5.2.5.5

Test Settings

The relevant equation for determining the ERP or EIRP from the conducted RF output power measured is:

EIRP = PMeas – LC + GT

Where:

EIRP = Equivalent Isotropic Radiated Power (expressed in the same units as PMeas, typically dBW or dBm)

PMeas = measured transmitter output power or PSD, in dBW or dBm

LC = signal attenuation in the connecting cable between the transmitter and antenna in dB

GT = gain of the transmitting antenna, in dBi (EIRP)

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

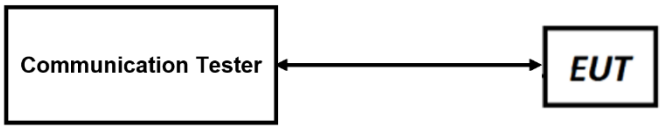


Figure 7-5. EIRP Measurement Setup

Test Notes

1. The EUT was tested in all possible test configurations. The worst case emissions are reported with the EUT modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.

2. This unit was tested with its standard battery.

3. The Level (dBm) readings in the table were taken with a correction table loaded into the base station simulator. The correction table was used to account for the signal attenuation in the connecting cable between the transmitter and antenna.

4. Uplink carrier aggregation for LTE Band 7 is only supported in this EUT while operating in Power Class 3.

5. Uplink carrier aggregation for LTE Band 41 is supported in this EUT while operating in Power Class 2 and Power Class 3.

6. For ULCA, conducted power measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device.

7. For ULCA, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for frequencies less than 1 GHz and 1 MHz or greater for frequencies greater than 1 GHz.

7.6.1 Antenna 4 - EIRP

LTE-Band 30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2307.5	1.90	1 / 12	21.56	23.46	0.222	23.98	-0.52
		2310.0	1.90	1 / 12	21.60	**23.50**	0.224	23.98	-0.48
		2312.5	1.90	1 / 0	21.34	23.24	0.211	23.98	-0.74
	16-QAM	2310.0	1.90	1 / 0	20.49	22.39	0.173	23.98	-1.59
	64-QAM	2310.0	1.90	1 / 24	19.58	21.48	0.141	23.98	-2.50
	256-QAM	2312.5	1.90	1 / 12	16.69	18.59	0.072	23.98	-5.39
10 MHz	QPSK	2310.0	1.90	1 / 0	21.58	**23.48**	0.223	23.98	-0.50
	16-QAM	2310.0	1.90	1 / 0	20.31	22.21	0.166	23.98	-1.77
	64-QAM	2310.0	1.90	1 / 49	19.53	21.43	0.139	23.98	-2.55
	256-QAM	2310.0	1.90	1 / 0	16.66	18.56	0.072	23.98	-5.42

Table 7-3. Antenna 4 EIRP Data (LTE Band 30)

LTE-Band 7

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2502.5	1.70	1 / 0	25.70	**27.40**	0.550	33.01	-5.61
		2535.0	1.70	1 / 0	25.46	27.16	0.520	33.01	-5.85
		2567.5	1.70	1 / 0	25.46	27.16	0.520	33.01	-5.85
	16-QAM	2535.0	1.70	1 / 12	24.78	**26.48**	0.445	33.01	-6.53
	64-QAM	2535.0	1.70	1 / 24	23.74	25.44	0.350	33.01	-7.57
	256-QAM	2535.0	1.70	1 / 24	20.87	22.57	0.181	33.01	-10.44
10 MHz	QPSK	2505.0	1.70	1 / 0	25.70	**27.40**	0.550	33.01	-5.61
		2535.0	1.70	1 / 25	25.35	27.05	0.507	33.01	-5.96
		2565.0	1.70	1 / 0	25.37	27.07	0.509	33.01	-5.94
	16-QAM	2505.0	1.70	1 / 25	24.64	26.34	0.431	33.01	-6.67
		2565.0	1.70	1 / 0	24.64	26.34	0.431	33.01	-6.67
	64-QAM	2535.0	1.70	1 / 25	23.68	25.38	0.345	33.01	-7.63
	256-QAM	2565.0	1.70	1 / 49	20.70	22.40	0.174	33.01	-10.61
15 MHz	QPSK	2507.5	1.70	1 / 0	25.37	27.07	0.509	33.01	-5.94
		2535.0	1.70	1 / 0	25.61	**27.31**	0.538	33.01	-5.70
		2562.5	1.70	1 / 0	25.49	27.19	0.524	33.01	-5.82
	16-QAM	2507.5	1.70	1 / 37	24.47	26.17	0.414	33.01	-6.84
	64-QAM	2535.0	1.70	1 / 74	23.62	25.32	0.340	33.01	-7.69
	256-QAM	2535.0	1.70	1 / 74	20.76	22.46	0.176	33.01	-10.55
20 MHz	QPSK	2510.0	1.70	1 / 0	25.32	27.02	0.504	33.01	-5.99
		2535.0	1.70	1 / 50	25.40	27.10	0.513	33.01	-5.91
		2560.0	1.70	1 / 50	25.59	**27.29**	0.536	33.01	-5.72
	16-QAM	2560.0	1.70	1 / 99	24.69	26.39	0.436	33.01	-6.62
	64-QAM	2560.0	1.70	1 / 99	23.71	25.41	0.348	33.01	-7.60
	256-QAM	2560.0	1.70	1 / 99	20.82	22.52	0.179	33.01	-10.49

Table 7-4. Antenna 4 EIRP Data (LTE Band 7)

LTE-Band 41 (PC2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2498.5	1.00	1 / 0	27.70	**28.70**	0.741	33.01	-4.31
		2593.0	1.00	1 / 0	27.58	28.58	0.721	33.01	-4.43
		2687.5	1.00	1 / 0	27.39	28.39	0.690	33.01	-4.62
	16-QAM	2498.5	1.00	1 / 0	26.70	27.70	0.589	33.01	-5.31
	64-QAM	2498.5	1.00	1 / 0	26.11	27.11	0.514	33.01	-5.90
	256-QAM	2498.5	1.00	1 / 12	25.54	26.54	0.451	33.01	-6.47
10 MHz	QPSK	2501.0	1.00	1 / 0	27.69	**28.69**	0.740	33.01	-4.32
		2593.0	1.00	1 / 0	27.63	28.63	0.729	33.01	-4.38
		2685.0	1.00	1 / 0	27.38	28.38	0.689	33.01	-4.63
	16-QAM	2501.0	1.00	1 / 0	26.70	27.70	0.589	33.01	-5.31
	64-QAM	2501.0	1.00	1 / 49	26.04	27.04	0.506	33.01	-5.97
	256-QAM	2501.0	1.00	1 / 25	25.68	26.68	0.466	33.01	-6.33
15 MHz	QPSK	2503.5	1.00	1 / 0	27.70	**28.70**	0.741	33.01	-4.31
		2593.0	1.00	1 / 0	27.62	28.62	0.728	33.01	-4.39
		2682.5	1.00	1 / 74	27.26	28.26	0.670	33.01	-4.75
	16-QAM	2682.5	1.00	1 / 0	26.64	27.64	0.581	33.01	-5.37
	64-QAM	2503.5	1.00	1 / 0	26.15	27.15	0.519	33.01	-5.86
	256-QAM	2503.5	1.00	1 / 74	25.70	26.70	0.468	33.01	-6.31
20 MHz	QPSK	2506.0	1.00	1 / 0	27.70	**28.70**	0.741	33.01	-4.31
		2593.0	1.00	1 / 0	27.66	28.66	0.735	33.01	-4.35
		2680.0	1.00	1 / 99	27.54	28.54	0.714	33.01	-4.47
	16-QAM	2593.0	1.00	1 / 0	26.70	27.70	0.589	33.01	-5.31
	64-QAM	2680.0	1.00	1 / 0	26.20	27.20	0.525	33.01	-5.81
	256-QAM	2506.0	1.00	1 / 99	25.65	26.65	0.462	33.01	-6.36

Table 7-5. Antenna 4 EIRP Data (LTE Band 41(PC2))

LTE-Band 41 (PC3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2498.5	1.00	1 / 0	25.70	**26.70**	0.468	33.01	-6.31
		2593.0	1.00	1 / 0	25.61	26.61	0.458	33.01	-6.40
		2687.5	1.00	1 / 0	25.31	26.31	0.428	33.01	-6.70
	16-QAM	2498.5	1.00	1 / 0	24.63	25.63	0.366	33.01	-7.38
	64-QAM	2498.5	1.00	1 / 12	24.22	25.22	0.333	33.01	-7.79
	256-QAM	2498.5	1.00	1 / 24	22.58	23.58	0.228	33.01	-9.43
10 MHz	QPSK	2501.0	1.00	1 / 0	25.70	**26.70**	0.468	33.01	-6.31
		2593.0	1.00	1 / 0	25.62	26.62	0.459	33.01	-6.39
		2685.0	1.00	1 / 0	25.35	26.35	0.432	33.01	-6.66
	16-QAM	2501.0	1.00	1 / 0	24.64	25.64	0.366	33.01	-7.37
	64-QAM	2685.0	1.00	1 / 25	24.13	25.13	0.326	33.01	-7.88
	256-QAM	2593.0	1.00	1 / 25	22.57	23.57	0.228	33.01	-9.44
15 MHz	QPSK	2503.5	1.00	1 / 74	25.70	**26.70**	0.468	33.01	-6.31
		2593.0	1.00	1 / 0	25.65	26.65	0.462	33.01	-6.36
		2682.5	1.00	1 / 0	25.43	26.43	0.440	33.01	-6.58
	16-QAM	2682.5	1.00	1 / 74	24.33	25.33	0.341	33.01	-7.68
	64-QAM	2593.0	1.00	1 / 0	24.19	25.19	0.330	33.01	-7.82
	256-QAM	2503.5	1.00	1 / 0	22.56	23.56	0.227	33.01	-9.45
20 MHz	QPSK	2506.0	1.00	1 / 0	25.70	**26.70**	0.468	33.01	-6.31
		2593.0	1.00	1 / 0	25.59	26.59	0.456	33.01	-6.42
		2680.0	1.00	1 / 50	25.46	26.46	0.443	33.01	-6.55
	16-QAM	2506.0	1.00	1 / 0	24.63	25.63	0.366	33.01	-7.38
	64-QAM	2680.0	1.00	1 / 0	24.07	25.07	0.321	33.01	-7.94
	256-QAM	2506.0	1.00	1 / 0	22.54	23.54	0.226	33.01	-9.47

Table 7-6. Antenna 4 EIRP Data (LTE Band 41(PC3))

NR Band n30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	π/2 BPSK	2307.5	1.90	1 / 23	21.38	**23.28**	0.213	23.98	-0.70
		2310.0	1.90	1 / 1	21.56	23.46	0.222	23.98	-0.52
		2312.5	1.90	1 / 23	21.60	**23.50**	0.224	23.98	-0.48
	QPSK	2307.5	1.90	1 / 23	21.52	23.42	0.220	23.98	-0.56
		2310.0	1.90	1 / 12	21.54	23.44	0.221	23.98	-0.54
		2312.5	1.90	1 / 23	21.49	23.39	0.218	23.98	-0.59
	16-QAM	2312.5	1.90	1 / 1	20.60	22.50	0.178	23.98	-1.48
	64-QAM	2310.0	1.90	1 / 1	19.60	21.50	0.141	23.98	-2.48
	256-QAM	2310.0	1.90	1 / 12	16.65	18.55	0.072	23.98	-5.43
10 MHz	π/2 BPSK	2310.0	1.90	1 / 50	21.49	**23.39**	0.218	23.98	-0.59
	QPSK	2310.0	1.90	1 / 25	21.47	23.37	0.217	23.98	-0.61
	16-QAM	2310.0	1.90	1 / 25	20.47	22.37	0.173	23.98	-1.61
	64-QAM	2310.0	1.90	1 / 1	19.66	21.56	0.143	23.98	-2.42
	256-QAM	2310.0	1.90	1 / 50	16.72	18.62	0.073	23.98	-5.36

Table 7-7. Antenna 4 EIRP Data (NR Band n30)

NR Band n7

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	π/2 BPSK	2502.5	1.70	1 / 23	25.64	**27.34**	0.542	33.01	-5.67
		2535.0	1.70	1 / 23	25.57	27.27	0.533	33.01	-5.74
		2567.5	1.70	1 / 23	25.62	27.32	0.539	33.01	-5.69
	QPSK	2502.5	1.70	1 / 23	25.69	**27.39**	0.548	33.01	-5.62
		2535.0	1.70	1 / 23	25.64	27.34	0.542	33.01	-5.67
		2567.5	1.70	1 / 23	25.68	27.38	0.547	33.01	-5.63
	16-QAM	2502.5	1.70	1 / 12	24.75	26.45	0.442	33.01	-6.56
	64-QAM	2567.5	1.70	1 / 1	23.29	24.99	0.315	33.01	-8.03
	256-QAM	2567.5	1.70	1 / 23	21.15	22.85	0.193	33.01	-10.16
10 MHz	π/2 BPSK	2505.0	1.70	1 / 1	25.58	**27.28**	0.535	33.01	-5.73
		2535.0	1.70	1 / 50	25.56	27.26	0.533	33.01	-5.75
		2565.0	1.70	1 / 1	25.55	27.25	0.531	33.01	-5.76
	QPSK	2505.0	1.70	1 / 1	25.65	27.35	0.544	33.01	-5.66
		2535.0	1.70	1 / 50	25.62	27.32	0.539	33.01	-5.69
		2565.0	1.70	1 / 50	25.69	**27.39**	0.549	33.01	-5.62
	16-QAM	2535.0	1.70	1 / 50	24.80	26.50	0.446	33.01	-6.51
	64-QAM	2505.0	1.70	1 / 50	23.22	24.92	0.310	33.01	-8.09
	256-QAM	2505.0	1.70	1 / 25	21.12	22.82	0.191	33.01	-10.19
15 MHz	π/2 BPSK	2507.5	1.70	1 / 1	25.57	27.27	0.534	33.01	-5.74
		2535.0	1.70	1 / 73	25.67	**27.37**	0.545	33.01	-5.64
		2562.5	1.70	1 / 37	25.67	27.37	0.545	33.01	-5.64
	QPSK	2507.5	1.70	1 / 1	25.60	27.30	0.538	33.01	-5.71
		2535.0	1.70	1 / 73	25.64	27.34	0.543	33.01	-5.67
		2562.5	1.70	1 / 73	25.68	**27.38**	0.547	33.01	-5.63
	16-QAM	2535.0	1.70	1 / 37	24.75	26.45	0.441	33.01	-6.56
	64-QAM	2562.5	1.70	1 / 37	23.19	24.89	0.308	33.01	-8.12
	256-QAM	2535.0	1.70	1 / 37	21.22	22.92	0.196	33.01	-10.10
20 MHz	π/2 BPSK	2510.0	1.70	1 / 50	25.67	27.37	0.546	33.01	-5.64
		2535.0	1.70	1 / 50	25.64	27.34	0.542	33.01	-5.67
		2560.0	1.70	1 / 98	25.69	**27.39**	0.548	33.01	-5.62
	QPSK	2510.0	1.70	1 / 1	25.62	27.32	0.540	33.01	-5.69
		2535.0	1.70	1 / 98	25.69	27.39	0.548	33.01	-5.62
		2560.0	1.70	1 / 1	25.69	**27.39**	0.549	33.01	-5.62
	16-QAM	2560.0	1.70	1 / 50	24.87	26.57	0.454	33.01	-6.44
	64-QAM	2560.0	1.70	1 / 1	23.29	24.99	0.315	33.01	-8.02
	256-QAM	2560.0	1.70	1 / 50	21.17	22.87	0.194	33.01	-10.14
25 MHz	π/2 BPSK	2512.5	1.70	1 / 1	25.64	27.34	0.542	33.01	-5.67
		2535.0	1.70	1 / 131	25.70	**27.40**	0.549	33.01	-5.61
		2557.5	1.70	1 / 1	25.67	27.37	0.546	33.01	-5.64
	QPSK	2512.5	1.70	1 / 131	25.63	27.33	0.541	33.01	-5.68
		2535.0	1.70	1 / 131	25.61	27.31	0.538	33.01	-5.70
		2557.5	1.70	1 / 1	25.69	**27.39**	0.548	33.01	-5.62
	16-QAM	2557.5	1.70	1 / 1	24.69	26.39	0.436	33.01	-6.62
	64-QAM	2557.5	1.70	1 / 1	23.19	24.89	0.309	33.01	-8.12
	256-QAM	2535.0	1.70	1 / 131	21.13	22.83	0.192	33.01	-10.18
30 MHz	π/2 BPSK	2515.0	1.70	1 / 158	25.55	27.25	0.531	33.01	-5.76
		2535.0	1.70	1 / 158	25.69	**27.39**	0.549	33.01	-5.62
		2555.0	1.70	1 / 1	25.65	27.35	0.544	33.01	-5.66
	QPSK	2515.0	1.70	1 / 80	25.62	27.32	0.539	33.01	-5.69
		2535.0	1.70	1 / 158	25.68	**27.38**	0.547	33.01	-5.63
		2555.0	1.70	1 / 1	25.59	27.29	0.536	33.01	-5.72
	16-QAM	2515.0	1.70	1 / 158	24.79	26.49	0.446	33.01	-6.52
	64-QAM	2515.0	1.70	1 / 158	23.15	24.85	0.305	33.01	-8.16
	256-QAM	2555.0	1.70	1 / 158	23.08	24.78	0.300	33.01	-8.23
35 MHz	π/2 BPSK	2517.5	1.70	1 / 186	25.41	27.11	0.514	33.01	-5.90
		2535.0	1.70	1 / 186	25.43	27.13	0.517	33.01	-5.88
		2552.5	1.70	1 / 186	25.48	**27.18**	0.522	33.01	-5.83
	QPSK	2517.5	1.70	1 / 186	25.52	27.22	0.527	33.01	-5.79
		2535.0	1.70	1 / 186	25.57	**27.27**	0.533	33.01	-5.74
		2552.5	1.70	1 / 186	25.53	27.23	0.528	33.01	-5.78
	16-QAM	2535.0	1.70	1 / 186	24.65	26.35	0.431	33.01	-6.66
	64-QAM	2517.5	1.70	1 / 1	23.18	24.88	0.308	33.01	-8.13
	256-QAM	2535.0	1.70	1 / 186	21.05	22.75	0.188	33.01	-10.26
40 MHz	π/2 BPSK	2520.0	1.70	1 / 1	25.68	**27.38**	0.547	33.01	-5.63
		2535.0	1.70	1 / 1	25.67	27.37	0.545	33.01	-5.64
		2550.0	1.70	1 / 214	25.65	27.35	0.543	33.01	-5.66
	QPSK	2520.0	1.70	1 / 214	25.63	27.33	0.541	33.01	-5.68
		2535.0	1.70	1 / 108	25.67	27.37	0.545	33.01	-5.64
		2550.0	1.70	1 / 214	25.70	**27.40**	0.549	33.01	-5.61
	16-QAM	2520.0	1.70	1 / 108	24.83	26.53	0.450	33.01	-6.48
	64-QAM	2535.0	1.70	1 / 214	23.24	24.94	0.312	33.01	-8.07
	256-QAM	2550.0	1.70	1 / 1	21.23	22.93	0.196	33.01	-10.08

Table 7-8. Antenna 4 EIRP Data (NR Band n7)

NR Band n41(PC2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
10 MHz	π/2 BPSK	2501.0	1.00	1 / 22	27.60	**28.60**	0.724	33.01	-4.41
		2593.0	1.00	1 / 11	27.70	**28.70**	0.741	33.01	-4.31
		2685.0	1.00	1 / 11	27.61	28.61	0.726	33.01	-4.40
	QPSK	2501.0	1.00	1 / 11	27.20	28.20	0.661	33.01	-4.81
		2593.0	1.00	1 / 11	27.68	**28.68**	0.738	33.01	-4.33
		2685.0	1.00	1 / 11	27.66	28.66	0.735	33.01	-4.35
	16-QAM	2593.0	1.00	1 / 11	26.40	27.40	0.550	33.01	-5.61
	64-QAM	2501.0	1.00	1 / 11	25.18	26.18	0.415	33.01	-6.83
	256-QAM	2685.0	1.00	1 / 22	23.62	24.62	0.290	33.01	-8.39
15 MHz	π/2 BPSK	2503.5	1.00	1 / 1	27.49	28.49	0.706	33.01	-4.52
		2593.0	1.00	1 / 19	27.68	28.68	0.738	33.01	-4.33
		2682.5	1.00	1 / 19	27.70	**28.70**	0.741	33.01	-4.31
	QPSK	2503.5	1.00	1 / 1	27.70	28.70	0.741	33.01	-4.31
		2593.0	1.00	1 / 19	27.48	28.48	0.705	33.01	-4.53
		2682.5	1.00	1 / 19	27.47	28.47	0.703	33.01	-4.54
	16-QAM	2593.0	1.00	1 / 19	26.65	27.65	0.582	33.01	-5.36
	64-QAM	2503.5	1.00	1 / 19	25.16	26.16	0.413	33.01	-6.85
	256-QAM	2682.5	1.00	1 / 36	23.15	24.15	0.260	33.01	-8.87
20 MHz	π/2 BPSK	2506.0	1.00	1 / 25	27.70	28.70	0.741	33.01	-4.31
		2593.0	1.00	1 / 25	27.57	28.57	0.719	33.01	-4.44
		2680.0	1.00	1 / 25	27.54	28.54	0.714	33.01	-4.47
	QPSK	2506.0	1.00	1 / 1	27.60	28.60	0.724	33.01	-4.41
		2593.0	1.00	1 / 25	27.63	**28.63**	0.729	33.01	-4.39
		2680.0	1.00	1 / 25	27.62	28.62	0.727	33.01	-4.39
	16-QAM	2593.0	1.00	1 / 49	26.78	27.78	0.600	33.01	-5.23
	64-QAM	2680.0	1.00	1 / 25	25.39	26.39	0.435	33.01	-6.62
	256-QAM	2593.0	1.00	1 / 25	23.04	24.04	0.253	33.01	-8.97
30 MHz	π/2 BPSK	2511.0	1.00	1 / 1	27.55	28.55	0.716	33.01	-4.46
		2593.0	1.00	1 / 39	27.68	28.68	0.738	33.01	-4.33
		2675.0	1.00	1 / 39	27.70	**28.70**	0.741	33.01	-4.31
	QPSK	2511.0	1.00	1 / 1	27.69	28.69	0.740	33.01	-4.32
		2593.0	1.00	1 / 39	27.62	28.62	0.728	33.01	-4.39
		2675.0	1.00	1 / 39	27.68	28.68	0.738	33.01	-4.33
	16-QAM	2675.0	1.00	1 / 39	26.61	27.61	0.577	33.01	-5.40
	64-QAM	2593.0	1.00	1 / 39	25.26	26.26	0.422	33.01	-6.75
	256-QAM	2675.0	1.00	1 / 39	23.22	24.22	0.264	33.01	-8.79
40 MHz	π/2 BPSK	2516.0	1.00	1 / 1	27.69	28.69	0.740	33.01	-4.32
		2593.0	1.00	1 / 53	27.62	28.62	0.728	33.01	-4.39
		2670.0	1.00	1 / 53	27.66	**28.66**	0.735	33.01	-4.35
	QPSK	2516.0	1.00	1 / 53	27.30	28.30	0.676	33.01	-4.71
		2593.0	1.00	1 / 53	27.53	28.53	0.712	33.01	-4.48
		2670.0	1.00	1 / 53	27.63	28.63	0.730	33.01	-4.38
	16-QAM	2670.0	1.00	1 / 53	26.40	27.40	0.550	33.01	-5.61
	64-QAM	2670.0	1.00	1 / 53	25.09	26.09	0.406	33.01	-6.92
	256-QAM	2516.0	1.00	1 / 53	23.13	24.13	0.259	33.01	-8.88
50 MHz	π/2 BPSK	2521.0	1.00	1 / 131	27.62	28.62	0.728	33.01	-4.39
		2593.0	1.00	1 / 66	27.58	**28.58**	0.722	33.01	-4.43
		2665.0	1.00	1 / 66	27.44	28.44	0.699	33.01	-4.57
	QPSK	2521.0	1.00	1 / 131	27.53	28.53	0.713	33.01	-4.48
		2593.0	1.00	1 / 66	27.39	28.39	0.691	33.01	-4.62
		2665.0	1.00	1 / 66	27.40	28.40	0.691	33.01	-4.61
	16-QAM	2665.0	1.00	1 / 66	26.68	27.68	0.586	33.01	-5.33
	64-QAM	2521.0	1.00	1 / 66	25.11	26.11	0.408	33.01	-6.90
	256-QAM	2593.0	1.00	1 / 66	23.05	24.05	0.254	33.01	-8.96
60 MHz	π/2 BPSK	2526.0	1.00	1 / 160	27.60	28.60	0.724	33.01	-4.41
		2593.0	1.00	1 / 1	27.57	**28.57**	0.719	33.01	-4.44
		2660.0	1.00	1 / 1	27.55	28.55	0.716	33.01	-4.46
	QPSK	2526.0	1.00	1 / 81	27.68	28.68	0.738	33.01	-4.33
		2593.0	1.00	1 / 81	27.46	28.46	0.702	33.01	-4.55
		2660.0	1.00	1 / 1	27.57	**28.57**	0.720	33.01	-4.44
	16-QAM	2593.0	1.00	1 / 81	26.75	27.75	0.595	33.01	-5.26
	64-QAM	2593.0	1.00	1 / 81	25.15	26.15	0.412	33.01	-6.86
	256-QAM	2660.0	1.00	1 / 81	22.99	23.99	0.251	33.01	-9.02
70 MHz	π/2 BPSK	2531.0	1.00	1 / 1	27.55	28.55	0.716	33.01	-4.46
		2593.0	1.00	1 / 81	27.64	**28.64**	0.731	33.01	-4.37
		2660.0	1.00	1 / 1	27.43	28.43	0.697	33.01	-4.58
	QPSK	2531.0	1.00	1 / 81	27.56	28.56	0.718	33.01	-4.45
		2593.0	1.00	1 / 81	27.33	28.33	0.680	33.01	-4.68
		2660.0	1.00	1 / 1	27.42	**28.42**	0.696	33.01	-4.59
	16-QAM	2593.0	1.00	1 / 81	26.50	27.50	0.563	33.01	-5.51
	64-QAM	2660.0	1.00	1 / 1	25.00	26.00	0.398	33.01	-7.01
	256-QAM	2593.0	1.00	1 / 81	23.11	24.11	0.258	33.01	-8.90
80 MHz	π/2 BPSK	2536.0	1.00	1 / 1	27.60	28.60	0.724	33.01	-4.41
		2593.0	1.00	1 / 108	27.49	28.49	0.706	33.01	-4.52
		2650.0	1.00	1 / 1	27.43	28.43	0.696	33.01	-4.58
	QPSK	2536.0	1.00	1 / 1	27.37	28.37	0.687	33.01	-4.64
		2593.0	1.00	1 / 108	27.39	28.39	0.689	33.01	-4.63
		2650.0	1.00	1 / 1	27.63	**28.63**	0.729	33.01	-4.38
	16-QAM	2650.0	1.00	1 / 1	26.84	27.84	0.607	33.01	-5.18
	64-QAM	2650.0	1.00	1 / 1	25.23	26.23	0.419	33.01	-6.78
	256-QAM	2593.0	1.00	1 / 108	23.00	24.00	0.251	33.01	-9.01
90 MHz	π/2 BPSK	2541.0	1.00	1 / 1	27.70	28.70	0.741	33.01	-4.31
		2593.0	1.00	1 / 122	27.59	**28.59**	0.723	33.01	-4.42
		2645.0	1.00	1 / 1	27.54	28.54	0.714	33.01	-4.47
	QPSK	2541.0	1.00	1 / 1	27.70	28.70	0.741	33.01	-4.31
		2593.0	1.00	1 / 122	27.40	**28.40**	0.692	33.01	-4.61
		2645.0	1.00	1 / 1	27.37	28.37	0.687	33.01	-4.64
	16-QAM	2593.0	1.00	1 / 122	26.59	27.59	0.575	33.01	-5.42
	64-QAM	2593.0	1.00	1 / 1	25.31	26.31	0.428	33.01	-6.70
	256-QAM	2593.0	1.00	1 / 1	23.06	24.06	0.255	33.01	-8.95
100 MHz	π/2 BPSK	2546.0	1.00	1 / 271	27.38	28.38	0.689	33.01	-4.63
		2593.0	1.00	1 / 136	27.69	**28.69**	0.740	33.01	-4.32
		2640.0	1.00	1 / 136	27.51	28.51	0.709	33.01	-4.50
	QPSK	2546.0	1.00	1 / 271	27.65	28.65	0.733	33.01	-4.36
		2593.0	1.00	1 / 136	27.51	28.51	0.710	33.01	-4.50
		2640.0	1.00	1 / 136	27.38	28.38	0.689	33.01	-4.63
	16-QAM	2640.0	1.00	1 / 1	26.39	27.39	0.549	33.01	-5.62
	64-QAM	2640.0	1.00	1 / 1	25.06	26.06	0.404	33.01	-6.95
	256-QAM	2593.0	1.00	1 / 136	23.07	24.07	0.255	33.01	-8.94

Table 7-9. Antenna 4 EIRP Data (NR Band n41(PC2))

NR Band n41(PC3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
10 MHz	π/2 BPSK	2501.0	1.00	1 / 11	25.35	**26.35**	0.432	33.01	-6.66
		2593.0	1.00	1 / 1	25.51	**26.51**	0.448	33.01	-6.50
		2685.0	1.00	1 / 11	25.28	26.28	0.425	33.01	-6.73
	QPSK	2501.0	1.00	1 / 22	25.49	26.49	0.446	33.01	-6.52
		2593.0	1.00	1 / 11	25.51	**26.51**	0.447	33.01	-6.50
		2685.0	1.00	1 / 11	25.33	26.33	0.429	33.01	-6.68
	16-QAM	2593.0	1.00	1 / 1	24.98	25.98	0.397	33.01	-7.03
	64-QAM	2501.0	1.00	1 / 11	23.33	24.33	0.271	33.01	-8.68
	256-QAM	2593.0	1.00	1 / 1	21.13	22.13	0.163	33.01	-10.88
15 MHz	π/2 BPSK	2503.5	1.00	1 / 36	25.37	26.37	0.433	33.01	-6.64
		2593.0	1.00	1 / 1	25.57	26.57	0.453	33.01	-6.44
		2682.5	1.00	1 / 19	25.70	**26.70**	0.468	33.01	-6.31
	QPSK	2503.5	1.00	1 / 36	25.56	26.56	0.453	33.01	-6.45
		2593.0	1.00	1 / 36	25.63	**26.63**	0.460	33.01	-6.38
		2682.5	1.00	1 / 36	25.33	26.33	0.430	33.01	-6.68
	16-QAM	2593.0	1.00	1 / 1	24.78	25.78	0.378	33.01	-7.23
	64-QAM	2593.0	1.00	1 / 36	23.36	24.36	0.273	33.01	-8.65
	256-QAM	2593.0	1.00	1 / 19	21.31	22.31	0.170	33.01	-10.70
20 MHz	π/2 BPSK	2506.0	1.00	1 / 1	25.67	26.67	0.465	33.01	-6.34
		2593.0	1.00	1 / 25	25.56	26.56	0.453	33.01	-6.45
		2680.0	1.00	1 / 1	25.57	26.57	0.454	33.01	-6.44
	QPSK	2506.0	1.00	1 / 25	25.63	26.63	0.460	33.01	-6.38
		2593.0	1.00	1 / 25	25.59	**26.59**	0.456	33.01	-6.42
		2680.0	1.00	1 / 25	25.59	26.59	0.456	33.01	-6.42
	16-QAM	2593.0	1.00	1 / 25	24.67	25.67	0.369	33.01	-7.34
	64-QAM	2680.0	1.00	1 / 25	23.21	24.21	0.264	33.01	-8.80
	256-QAM	2593.0	1.00	1 / 1	21.01	22.01	0.159	33.01	-11.00
30 MHz	π/2 BPSK	2511.0	1.00	1 / 1	25.69	26.69	0.467	33.01	-6.32
		2593.0	1.00	1 / 39	25.61	26.61	0.458	33.01	-6.40
		2675.0	1.00	1 / 39	25.59	26.59	0.456	33.01	-6.42
	QPSK	2511.0	1.00	1 / 76	25.69	26.69	0.467	33.01	-6.32
		2593.0	1.00	1 / 39	25.64	26.64	0.461	33.01	-6.38
		2675.0	1.00	1 / 39	25.69	**26.69**	0.467	33.01	-6.32
	16-QAM	2675.0	1.00	1 / 39	24.73	25.73	0.374	33.01	-7.28
	64-QAM	2675.0	1.00	1 / 1	23.35	24.35	0.272	33.01	-8.66
	256-QAM	2675.0	1.00	1 / 39	21.07	22.07	0.161	33.01	-10.94
40 MHz	π/2 BPSK	2516.0	1.00	1 / 104	25.48	26.48	0.445	33.01	-6.53
		2593.0	1.00	1 / 53	25.60	26.60	0.457	33.01	-6.41
		2670.0	1.00	1 / 1	25.69	26.69	0.467	33.01	-6.32
	QPSK	2516.0	1.00	1 / 1	25.66	26.66	0.463	33.01	-6.35
		2593.0	1.00	1 / 53	25.63	26.63	0.460	33.01	-6.38
		2670.0	1.00	1 / 1	25.68	**26.68**	0.466	33.01	-6.33
	16-QAM	2670.0	1.00	1 / 53	24.66	25.66	0.368	33.01	-7.35
	64-QAM	2670.0	1.00	1 / 1	23.22	24.22	0.264	33.01	-8.79
	256-QAM	2670.0	1.00	1 / 53	21.12	22.12	0.163	33.01	-10.89
50 MHz	π/2 BPSK	2521.0	1.00	1 / 131	25.59	26.59	0.456	33.01	-6.42
		2593.0	1.00	1 / 66	25.63	**26.63**	0.460	33.01	-6.38
		2665.0	1.00	1 / 66	25.52	26.52	0.449	33.01	-6.49
	QPSK	2521.0	1.00	1 / 1	25.56	26.56	0.453	33.01	-6.45
		2593.0	1.00	1 / 66	25.59	26.59	0.456	33.01	-6.42
		2665.0	1.00	1 / 1	25.61	**26.61**	0.458	33.01	-6.40
	16-QAM	2665.0	1.00	1 / 1	24.72	25.72	0.374	33.01	-7.29
	64-QAM	2521.0	1.00	1 / 66	23.07	24.07	0.255	33.01	-8.94
	256-QAM	2665.0	1.00	1 / 1	21.13	22.13	0.163	33.01	-10.88
60 MHz	π/2 BPSK	2526.0	1.00	1 / 1	25.51	26.51	0.448	33.01	-6.50
		2593.0	1.00	1 / 81	25.54	**26.54**	0.451	33.01	-6.47
		2660.0	1.00	1 / 81	25.49	26.49	0.446	33.01	-6.52
	QPSK	2526.0	1.00	1 / 1	25.34	26.34	0.431	33.01	-6.67
		2593.0	1.00	1 / 81	25.60	**26.60**	0.458	33.01	-6.41
		2660.0	1.00	1 / 1	25.52	26.52	0.449	33.01	-6.49
	16-QAM	2593.0	1.00	1 / 81	24.63	25.63	0.365	33.01	-7.38
	64-QAM	2593.0	1.00	1 / 81	23.29	24.29	0.269	33.01	-8.72
	256-QAM	2660.0	1.00	1 / 1	21.13	22.13	0.163	33.01	-10.88
70 MHz	π/2 BPSK	2531.0	1.00	1 / 81	25.70	26.70	0.468	33.01	-6.31
		2593.0	1.00	1 / 81	25.50	26.50	0.446	33.01	-6.51
		2660.0	1.00	1 / 1	25.47	26.47	0.444	33.01	-6.54
	QPSK	2531.0	1.00	1 / 1	25.56	26.56	0.453	33.01	-6.45
		2593.0	1.00	1 / 81	25.48	26.48	0.444	33.01	-6.53
		2660.0	1.00	1 / 1	25.47	26.47	0.444	33.01	-6.54
	16-QAM	2593.0	1.00	1 / 160	24.59	25.59	0.363	33.01	-7.42
	64-QAM	2660.0	1.00	1 / 81	23.08	24.08	0.256	33.01	-8.93
	256-QAM	2660.0	1.00	1 / 81	20.92	21.92	0.155	33.01	-11.09
80 MHz	π/2 BPSK	2536.0	1.00	1 / 108	25.65	26.65	0.462	33.01	-6.36
		2593.0	1.00	1 / 1	25.49	26.49	0.445	33.01	-6.52
		2650.0	1.00	1 / 1	25.65	**26.65**	0.462	33.01	-6.36
	QPSK	2536.0	1.00	1 / 1	25.51	26.51	0.448	33.01	-6.50
		2593.0	1.00	1 / 1	25.48	26.48	0.444	33.01	-6.53
		2650.0	1.00	1 / 1	25.51	**26.51**	0.447	33.01	-6.50
	16-QAM	2650.0	1.00	1 / 108	24.57	25.57	0.361	33.01	-7.44
	64-QAM	2593.0	1.00	1 / 1	23.04	24.04	0.254	33.01	-8.97
	256-QAM	2593.0	1.00	1 / 1	20.91	21.91	0.155	33.01	-11.10
90 MHz	π/2 BPSK	2541.0	1.00	1 / 1	25.70	26.70	0.468	33.01	-6.31
		2593.0	1.00	1 / 1	25.48	26.48	0.445	33.01	-6.53
		2645.0	1.00	1 / 1	25.55	**26.55**	0.452	33.01	-6.46
	QPSK	2541.0	1.00	1 / 1	24.43	25.43	0.349	33.01	-7.58
		2593.0	1.00	1 / 122	25.50	26.50	0.447	33.01	-6.51
		2645.0	1.00	1 / 122	25.54	**26.54**	0.451	33.01	-6.47
	16-QAM	2593.0	1.00	1 / 1	24.74	25.74	0.375	33.01	-7.27
	64-QAM	2593.0	1.00	1 / 122	23.18	24.18	0.262	33.01	-8.83
	256-QAM	2645.0	1.00	1 / 1	21.04	22.04	0.160	33.01	-10.97
100 MHz	π/2 BPSK	2546.0	1.00	1 / 136	25.46	26.46	0.443	33.01	-6.55
		2593.0	1.00	1 / 1	25.51	**26.51**	0.448	33.01	-6.50
		2640.0	1.00	1 / 1	25.46	26.46	0.443	33.01	-6.55
	QPSK	2546.0	1.00	1 / 136	24.45	25.45	0.350	33.01	-7.56
		2593.0	1.00	1 / 136	25.58	**26.58**	0.455	33.01	-6.43
		2640.0	1.00	1 / 1	25.57	26.57	0.454	33.01	-6.44
	16-QAM	2593.0	1.00	1 / 1	24.86	25.86	0.386	33.01	-7.15
	64-QAM	2640.0	1.00	1 / 271	23.19	24.19	0.262	33.01	-8.82
	256-QAM	2593.0	1.00	1 / 136	21.00	22.00	0.159	33.01	-11.01

Table 7-10. Antenna 4 EIRP Data (NR Band n41(PC3))

ULCA LTE Band 7

Power State	Band	Bandwidth (PCC + SCC)	PCC					SCC					ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset						
Max	LTE B7	20MHz + 20MHz	QPSK	20850	2510.0	1	99	QPSK	21048	2529.8	1	0	25.45	1.70	**27.15**	0.519	33.01	-5.86
				21100	2535.0	1	99		21298	2554.8	1	0	25.29	1.70	27.09	0.512	33.01	-5.92
				21350	2560.0	1	0		21152	2540.2	1	99	25.28	1.70	27.10	0.513	33.01	-5.91
			QPSK	20850	2510	100	0	QPSK	21048	2529.8	100	0	23.66	1.70	25.36	0.344	33.01	-7.65
			16-QAM	20850	2510	100	0	16-QAM	21048	2529.8	100	0	23.09	1.70	**26.93**	0.493	33.01	-6.08
			64-QAM	20850	2510	100	0	64-QAM	21048	2529.8	100	0	22.42	1.70	**24.12**	0.258	33.01	-8.89
			256-QAM	20850	2510	100	0	256-QAM	21048	2529.8	100	0	20.92	1.70	**23.52**	0.225	33.01	-9.49

Table 7-11. Antenna 4 EIRP Data (ULCA LTE Band 7)

ULCA LTE Band 41(PC2)

Power State	Band	Bandwidth (PCC + SCC)	PCC					SCC					ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset						
Max	LTE B41 (PC2)	20MHz + 20MHz	QPSK	39750	2506.0	1	99	QPSK	39948	2525.8	1	0	27.62	1.00	**28.62**	0.728	33.01	-4.39
				40620	2593.0	1	99		40818	2612.8	1	0	27.32	1.00	28.32	0.679	33.01	-4.69
				41490	2680.0	1	0		41292	2660.2	1	99	27.27	1.00	28.27	0.671	33.01	-4.74
			QPSK	39750	2506	100	0	QPSK	39948	2525.8	100	0	25.79	1.00	26.79	0.478	33.01	-6.22
			16-QAM	39750	2506	100	0	16-QAM	39948	2525.8	100	0	24.68	1.00	**25.68**	0.370	33.01	-7.33
			64-QAM	39750	2506	100	0	64-QAM	39948	2525.8	100	0	23.66	1.00	**24.66**	0.292	33.01	-8.35
			256-QAM	39750	2506	100	0	256-QAM	39948	2525.8	100	0	22.75	1.00	**23.75**	0.237	33.01	-9.26

Table 7-12. Antenna 4 EIRP Data (ULCA LTE Band 41 (PC2))

ULCA LTE Band 41(PC3)

Power State	Band	Bandwidth (PCC + SCC)	PCC					SCC					ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset						
Max	LTE B41 (PC3)	20MHz + 20MHz	QPSK	39750	2506.0	1	99	QPSK	39948	2525.8	1	0	25.41	1.00	**26.41**	0.438	33.01	-6.60
				40620	2593.0	1	99		40818	2612.8	1	0	25.30	1.00	26.30	0.427	33.01	-6.71
				41490	2680.0	1	0		41292	2660.2	1	99	25.26	1.00	26.26	0.423	33.01	-6.75
			QPSK	39750	2506	100	0	QPSK	39948	2525.8	100	0	24.08	1.00	25.08	0.322	33.01	-7.93
			16-QAM	39750	2506	100	0	16-QAM	39948	2525.8	100	0	23.18	1.00	**24.18**	0.262	33.01	-8.83
			64-QAM	39750	2506	100	0	64-QAM	39948	2525.8	100	0	22.79	1.00	**23.79**	0.239	33.01	-9.22
			256-QAM	39750	2506	100	0	256-QAM	39948	2525.8	100	0	20.80	1.00	**21.80**	0.151	33.01	-11.21

Table 7-13. Antenna 4 EIRP Data (ULCA LTE Band 41 (PC3))

7.6.2 Antenna 2b - EIRP

LTE-Band 30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2307.5	-1.30	1 / 0	24.20	**22.90**	0.195	23.98	-1.08
		2310.0	-1.30	1 / 0	24.20	**22.90**	0.195	23.98	-1.08
		2312.5	-1.30	1 / 0	24.08	22.78	0.190	23.98	-1.20
	16-QAM	2310.0	-1.30	1 / 0	23.47	22.17	0.165	23.98	-1.81
	64-QAM	2310.0	-1.30	1 / 0	22.35	21.05	0.127	23.98	-2.93
	256-QAM	2307.5	-1.30	1 / 0	19.33	18.03	0.064	23.98	-5.95
10 MHz	QPSK	2310.0	-1.30	1 / 25	24.12	**22.82**	0.191	23.98	-1.16
	16-QAM	2310.0	-1.30	1 / 25	23.36	22.06	0.161	23.98	-1.92
	64-QAM	2310.0	-1.30	1 / 25	22.18	20.88	0.122	23.98	-3.10
	256-QAM	2310.0	-1.30	1 / 25	19.26	17.96	0.063	23.98	-6.02

Table 7-14. Antenna 2b EIRP Data (LTE Band 30)

LTE-Band 7

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2502.5	-0.20	1 / 0	24.20	**24.00**	0.251	33.01	-9.01
		2535.0	-0.20	1 / 0	24.00	23.80	0.240	33.01	-9.21
		2567.5	-0.20	1 / 0	23.94	23.74	0.237	33.01	-9.27
	16-QAM	2567.5	-0.20	1 / 0	23.19	22.99	0.199	33.01	-10.02
	64-QAM	2502.5	-0.20	1 / 12	22.21	22.01	0.159	33.01	-11.00
	256-QAM	2567.5	-0.20	1 / 0	19.23	19.03	0.080	33.01	-13.98
10 MHz	QPSK	2505.0	-0.20	1 / 0	24.20	**24.00**	0.251	33.01	-9.01
		2535.0	-0.20	1 / 0	24.13	23.93	0.247	33.01	-9.08
		2565.0	-0.20	1 / 25	24.17	23.97	0.249	33.01	-9.04
	16-QAM	2505.0	-0.20	1 / 0	23.23	23.03	0.201	33.01	-9.98
	64-QAM	2535.0	-0.20	1 / 49	22.17	21.97	0.157	33.01	-11.04
	256-QAM	2505.0	-0.20	1 / 25	19.30	19.10	0.081	33.01	-13.91
15 MHz	QPSK	2507.5	-0.20	1 / 0	24.20	**24.00**	0.251	33.01	-9.01
		2535.0	-0.20	1 / 0	24.02	23.82	0.241	33.01	-9.19
		2562.5	-0.20	1 / 0	23.97	23.77	0.238	33.01	-9.24
	16-QAM	2507.5	-0.20	1 / 37	23.16	22.96	0.198	33.01	-10.05
	64-QAM	2507.5	-0.20	1 / 0	22.20	22.00	0.158	33.01	-11.01
	256-QAM	2535.0	-0.20	1 / 0	19.28	19.08	0.081	33.01	-13.93
20 MHz	QPSK	2510.0	-0.20	1 / 0	24.20	**24.00**	0.251	33.01	-9.01
		2535.0	-0.20	1 / 0	23.84	23.64	0.231	33.01	-9.37
		2560.0	-0.20	1 / 50	24.20	24.00	0.251	33.01	-9.01
	16-QAM	2510.0	-0.20	1 / 50	23.16	22.96	0.198	33.01	-10.05
	64-QAM	2510.0	-0.20	1 / 99	22.11	21.91	0.155	33.01	-11.10
	256-QAM	2535.0	-0.20	1 / 99	19.26	**19.06**	0.081	33.01	-13.95

Table 7-15. Antenna 2b EIRP Data (LTE Band 7)

LTE-Band 41 (PC2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2498.5	-0.90	1 / 0	28.67	**27.77**	0.598	33.01	-5.24
		2593.0	-0.90	1 / 0	28.45	27.55	0.569	33.01	-5.46
		2687.5	-0.90	1 / 0	28.21	27.31	0.538	33.01	-5.70
	16-QAM	2498.5	-0.90	1 / 0	27.70	26.80	0.479	33.01	-6.21
	64-QAM	2498.5	-0.90	1 / 0	27.07	26.17	0.414	33.01	-6.84
	256-QAM	2498.5	-0.90	1 / 0	26.43	25.53	0.357	33.01	-7.48
10 MHz	QPSK	2501.0	-0.90	1 / 0	28.68	**27.78**	0.600	33.01	-5.23
		2593.0	-0.90	1 / 0	28.43	27.53	0.566	33.01	-5.48
		2685.0	-0.90	1 / 0	28.27	27.37	0.546	33.01	-5.64
	16-QAM	2501.0	-0.90	1 / 0	27.70	26.80	0.479	33.01	-6.21
	64-QAM	2501.0	-0.90	1 / 0	27.15	26.25	0.422	33.01	-6.76
	256-QAM	2501.0	-0.90	1 / 0	26.69	25.79	0.379	33.01	-7.22
15 MHz	QPSK	2503.5	-0.90	1 / 0	28.70	**27.80**	0.603	33.01	-5.21
		2593.0	-0.90	1 / 0	28.30	27.40	0.550	33.01	-5.61
		2682.5	-0.90	1 / 0	28.32	27.42	0.552	33.01	-5.59
	16-QAM	2503.5	-0.90	1 / 0	27.54	26.64	0.461	33.01	-6.37
	64-QAM	2503.5	-0.90	1 / 74	27.08	26.18	0.415	33.01	-6.83
	256-QAM	2503.5	-0.90	1 / 0	26.70	25.80	0.380	33.01	-7.21
20 MHz	QPSK	2506.0	-0.90	1 / 0	28.70	**27.80**	0.603	33.01	-5.21
		2593.0	-0.90	1 / 99	28.43	27.53	0.566	33.01	-5.48
		2680.0	-0.90	1 / 0	28.37	27.47	0.558	33.01	-5.54
	16-QAM	2506.0	-0.90	1 / 0	27.70	26.80	0.479	33.01	-6.21
	64-QAM	2506.0	-0.90	1 / 0	27.14	26.24	0.421	33.01	-6.77
	256-QAM	2506.0	-0.90	1 / 0	26.70	25.80	0.380	33.01	-7.21

Table 7-16. Antenna 2b EIRP Data (LTE Band 41(PC2))

LTE-Band 41 (PC3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2498.5	-0.90	1 / 0	25.70	**24.80**	0.302	33.01	-8.21
		2593.0	-0.90	1 / 0	25.43	24.53	0.284	33.01	-8.48
		2687.5	-0.90	1 / 0	25.23	24.33	0.271	33.01	-8.68
	16-QAM	2498.5	-0.90	1 / 0	24.52	23.62	0.230	33.01	-9.39
	64-QAM	2498.5	-0.90	1 / 0	24.23	23.33	0.215	33.01	-9.68
	256-QAM	2498.5	-0.90	1 / 0	22.55	21.65	0.146	33.01	-11.36
10 MHz	QPSK	2501.0	-0.90	1 / 0	25.70	**24.80**	0.302	33.01	-8.21
		2593.0	-0.90	1 / 0	25.37	24.47	0.280	33.01	-8.54
		2685.0	-0.90	1 / 0	25.26	24.36	0.273	33.01	-8.65
	16-QAM	2501.0	-0.90	1 / 25	24.64	23.74	0.237	33.01	-9.27
	64-QAM	2501.0	-0.90	1 / 25	24.02	23.12	0.205	33.01	-9.89
	256-QAM	2501.0	-0.90	1 / 0	22.57	21.67	0.147	33.01	-11.34
15 MHz	QPSK	2503.5	-0.90	1 / 0	25.70	**24.80**	0.302	33.01	-8.21
		2593.0	-0.90	1 / 0	25.42	24.52	0.283	33.01	-8.49
		2682.5	-0.90	1 / 0	25.27	24.37	0.274	33.01	-8.64
	16-QAM	2503.5	-0.90	1 / 0	24.36	23.46	0.222	33.01	-9.55
	64-QAM	2503.5	-0.90	1 / 37	24.22	23.32	0.215	33.01	-9.69
	256-QAM	2503.5	-0.90	1 / 0	22.56	21.66	0.147	33.01	-11.35
20 MHz	QPSK	2506.0	-0.90	1 / 0	25.70	**24.80**	0.302	33.01	-8.21
		2593.0	-0.90	1 / 0	25.44	24.54	0.284	33.01	-8.47
		2680.0	-0.90	1 / 99	25.27	24.37	0.274	33.01	-8.64
	16-QAM	2506.0	-0.90	1 / 0	24.63	23.73	0.236	33.01	-9.28
	64-QAM	2506.0	-0.90	1 / 0	24.27	23.37	0.217	33.01	-9.64
	256-QAM	2506.0	-0.90	1 / 0	22.54	21.64	0.146	33.01	-11.37

Table 7-17. Antenna 2b EIRP Data (LTE Band 41(PC3))

NR Band n30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	π/2 BPSK	2307.5	-1.30	1 / 12	24.10	**22.80**	0.190	23.98	-1.18
		2310.0	-1.30	1 / 12	24.17	22.87	0.194	23.98	-1.11
		2312.5	-1.30	1 / 12	24.11	22.81	0.191	23.98	-1.17
	QPSK	2307.5	-1.30	1 / 12	24.20	22.90	0.195	23.98	-1.08
		2310.0	-1.30	1 / 12	24.20	**22.90**	0.195	23.98	-1.08
		2312.5	-1.30	1 / 12	24.18	22.88	0.194	23.98	-1.10
	16-QAM	2312.5	-1.30	1 / 1	23.12	21.82	0.152	23.98	-2.15
	64-QAM	2310.0	-1.30	1 / 23	21.75	20.45	0.111	23.98	-3.53
	256-QAM	2310.0	-1.30	1 / 12	19.60	18.30	0.068	23.98	-5.68
10 MHz	π/2 BPSK	2310.0	-1.30	1 / 25	24.15	22.85	0.193	23.98	-1.13
	QPSK	2310.0	-1.30	1 / 25	24.20	**22.90**	0.195	23.98	-1.08
	16-QAM	2310.0	-1.30	1 / 25	23.52	22.22	0.167	23.98	-1.76
	64-QAM	2310.0	-1.30	1 / 50	21.68	20.38	0.109	23.98	-3.60
	256-QAM	2310.0	-1.30	1 / 1	19.63	18.33	0.068	23.98	-5.65

Table 7-18. Antenna 2b EIRP Data (NR Band n30)

NR Band n7

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	π/2 BPSK	2502.5	-0.20	1 / 23	24.07	**23.87**	0.244	33.01	-9.14
		2535.0	-0.20	1 / 23	24.14	23.94	0.248	33.01	-9.07
		2567.5	-0.20	1 / 23	24.10	23.90	0.245	33.01	-9.11
	QPSK	2502.5	-0.20	1 / 1	24.14	23.94	0.247	33.01	-9.08
		2535.0	-0.20	1 / 23	24.17	23.97	0.250	33.01	-9.04
		2567.5	-0.20	1 / 23	24.19	**23.99**	0.251	33.01	-9.02
	16-QAM	2567.5	-0.20	1 / 1	23.02	22.82	0.191	33.01	-10.19
	64-QAM	2535.0	-0.20	1 / 12	21.79	21.59	0.144	33.01	-11.42
	256-QAM	2502.5	-0.20	1 / 1	19.60	19.40	0.087	33.01	-13.61
10 MHz	π/2 BPSK	2505.0	-0.20	1 / 50	23.99	23.79	0.239	33.01	-9.22
		2535.0	-0.20	1 / 50	24.13	23.93	0.247	33.01	-9.08
		2565.0	-0.20	1 / 50	24.08	23.88	0.244	33.01	-9.13
	QPSK	2505.0	-0.20	1 / 1	24.11	23.91	0.246	33.01	-9.10
		2535.0	-0.20	1 / 50	24.20	**24.00**	0.251	33.01	-9.01
		2565.0	-0.20	1 / 50	24.09	23.89	0.245	33.01	-9.12
	16-QAM	2565.0	-0.20	1 / 50	23.36	23.16	0.207	33.01	-9.85
	64-QAM	2565.0	-0.20	1 / 1	21.80	21.60	0.145	33.01	-11.41
	256-QAM	2535.0	-0.20	1 / 50	19.65	19.45	0.088	33.01	-13.56
15 MHz	π/2 BPSK	2507.5	-0.20	1 / 37	24.03	23.83	0.241	33.01	-9.18
		2535.0	-0.20	1 / 37	24.18	23.98	0.250	33.01	-9.03
		2562.5	-0.20	1 / 1	24.09	23.89	0.245	33.01	-9.12
	QPSK	2507.5	-0.20	1 / 1	24.07	23.87	0.244	33.01	-9.14
		2535.0	-0.20	1 / 73	24.20	**24.00**	0.251	33.01	-9.01
		2562.5	-0.20	1 / 1	24.16	23.96	0.249	33.01	-9.05
	16-QAM	2562.5	-0.20	1 / 1	23.44	23.24	0.211	33.01	-9.77
	64-QAM	2535.0	-0.20	1 / 73	21.73	21.53	0.142	33.01	-11.48
	256-QAM	2562.5	-0.20	1 / 1	19.54	19.34	0.086	33.01	-13.67
20 MHz	π/2 BPSK	2510.0	-0.20	1 / 98	23.99	23.79	0.240	33.01	-9.22
		2535.0	-0.20	1 / 98	24.16	23.96	0.249	33.01	-9.05
		2560.0	-0.20	1 / 98	24.11	23.91	0.246	33.01	-9.10
	QPSK	2510.0	-0.20	1 / 98	24.06	23.86	0.243	33.01	-9.15
		2535.0	-0.20	1 / 98	24.19	**23.99**	0.251	33.01	-9.02
		2560.0	-0.20	1 / 1	24.13	23.93	0.247	33.01	-9.08
	16-QAM	2560.0	-0.20	1 / 1	23.23	23.03	0.201	33.01	-9.98
	64-QAM	2560.0	-0.20	1 / 1	21.73	21.53	0.142	33.01	-11.48
	256-QAM	2535.0	-0.20	1 / 50	19.54	19.34	0.086	33.01	-13.67
25 MHz	π/2 BPSK	2512.5	-0.20	1 / 131	24.13	23.93	0.247	33.01	-9.08
		2535.0	-0.20	1 / 1	24.14	23.94	0.248	33.01	-9.07
		2557.5	-0.20	1 / 1	24.06	23.86	0.243	33.01	-9.15
	QPSK	2512.5	-0.20	1 / 131	24.16	23.96	0.249	33.01	-9.05
		2535.0	-0.20	1 / 1	24.19	**23.99**	0.251	33.01	-9.02
		2557.5	-0.20	1 / 1	24.13	23.93	0.247	33.01	-9.08
	16-QAM	2535.0	-0.20	1 / 66	23.42	23.22	0.210	33.01	-9.79
	64-QAM	2535.0	-0.20	1 / 1	21.83	21.63	0.146	33.01	-11.38
	256-QAM	2512.5	-0.20	1 / 1	19.73	19.53	0.090	33.01	-13.48
30 MHz	π/2 BPSK	2515.0	-0.20	1 / 158	24.13	23.93	0.247	33.01	-9.08
		2535.0	-0.20	1 / 80	24.12	23.92	0.247	33.01	-9.09
		2555.0	-0.20	1 / 1	24.16	23.96	0.249	33.01	-9.05
	QPSK	2515.0	-0.20	1 / 1	24.12	23.92	0.247	33.01	-9.09
		2535.0	-0.20	1 / 80	24.14	23.94	0.248	33.01	-9.07
		2555.0	-0.20	1 / 1	24.19	**23.99**	0.251	33.01	-9.02
	16-QAM	2535.0	-0.20	1 / 80	23.59	23.39	0.219	33.01	-9.62
	64-QAM	2535.0	-0.20	1 / 158	21.72	21.52	0.142	33.01	-11.49
	256-QAM	2535.0	-0.20	1 / 80	19.96	19.76	0.095	33.01	-13.25
35 MHz	π/2 BPSK	2517.5	-0.20	1 / 186	23.97	23.77	0.238	33.01	-9.24
		2535.0	-0.20	1 / 186	23.92	23.72	0.235	33.01	-9.29
		2552.5	-0.20	1 / 90	23.92	23.72	0.236	33.01	-9.29
	QPSK	2517.5	-0.20	1 / 186	24.00	23.80	0.240	33.01	-9.21
		2535.0	-0.20	1 / 186	24.06	**23.86**	0.243	33.01	-9.15
		2552.5	-0.20	1 / 186	23.99	23.79	0.239	33.01	-9.22
	16-QAM	2535.0	-0.20	1 / 90	23.12	22.92	0.196	33.01	-10.09
	64-QAM	2552.5	-0.20	1 / 186	21.55	21.35	0.136	33.01	-11.66
	256-QAM	2517.5	-0.20	1 / 90	19.49	19.29	0.085	33.01	-13.72
40 MHz	π/2 BPSK	2520.0	-0.20	1 / 214	24.19	23.99	0.251	33.01	-9.02
		2535.0	-0.20	1 / 1	24.11	23.91	0.246	33.01	-9.10
		2550.0	-0.20	1 / 1	24.20	**24.00**	0.251	33.01	-9.01
	QPSK	2520.0	-0.20	1 / 108	24.06	23.86	0.243	33.01	-9.16
		2535.0	-0.20	1 / 108	24.16	23.96	0.249	33.01	-9.05
		2550.0	-0.20	1 / 214	24.03	23.83	0.242	33.01	-9.18
	16-QAM	2520.0	-0.20	1 / 214	23.37	23.17	0.207	33.01	-9.84
	64-QAM	2535.0	-0.20	1 / 108	21.69	21.49	0.141	33.01	-11.52
	256-QAM	2535.0	-0.20	1 / 214	19.69	19.49	0.089	33.01	-13.52

Table 7-19. Antenna 2b EIRP Data (NR Band n7)

NR Band n41(PC2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
10 MHz	π/2 BPSK	2501.0	-0.90	1 / 22	28.46	**27.56**	0.570	33.01	-5.45
		2593.0	-0.90	1 / 11	28.64	27.74	0.594	33.01	-5.27
		2685.0	-0.90	1 / 11	28.70	**27.80**	0.603	33.01	-5.21
	QPSK	2501.0	-0.90	1 / 22	28.70	27.80	0.603	33.01	-5.21
		2593.0	-0.90	1 / 11	28.65	27.75	0.595	33.01	-5.26
		2685.0	-0.90	1 / 11	28.60	27.70	0.589	33.01	-5.31
	16-QAM	2685.0	-0.90	1 / 11	27.72	26.82	0.480	33.01	-6.19
	64-QAM	2685.0	-0.90	1 / 11	26.17	25.27	0.336	33.01	-7.74
	256-QAM	2501.0	-0.90	1 / 11	24.50	23.60	0.229	33.01	-9.41
15 MHz	π/2 BPSK	2503.5	-0.90	1 / 19	28.64	27.74	0.595	33.01	-5.27
		2593.0	-0.90	1 / 19	28.61	27.71	0.590	33.01	-5.30
		2682.5	-0.90	1 / 19	28.66	27.76	0.597	33.01	-5.25
	QPSK	2503.5	-0.90	1 / 36	28.31	27.41	0.551	33.01	-5.60
		2593.0	-0.90	1 / 19	28.61	27.71	0.590	33.01	-5.30
		2682.5	-0.90	1 / 19	28.65	**27.75**	0.596	33.01	-5.26
	16-QAM	2682.5	-0.90	1 / 1	27.62	26.72	0.470	33.01	-6.29
	64-QAM	2682.5	-0.90	1 / 19	26.12	25.22	0.332	33.01	-7.79
	256-QAM	2503.5	-0.90	1 / 19	24.54	23.64	0.231	33.01	-9.37
20 MHz	π/2 BPSK	2506.0	-0.90	1 / 1	28.64	27.74	0.594	33.01	-5.27
		2593.0	-0.90	1 / 25	28.64	27.74	0.594	33.01	-5.27
		2680.0	-0.90	1 / 25	28.70	**27.80**	0.603	33.01	-5.21
	QPSK	2506.0	-0.90	1 / 25	28.61	27.71	0.590	33.01	-5.30
		2593.0	-0.90	1 / 25	28.65	27.75	0.595	33.01	-5.26
		2680.0	-0.90	1 / 25	28.60	27.70	0.589	33.01	-5.31
	16-QAM	2680.0	-0.90	1 / 25	27.72	26.82	0.480	33.01	-6.19
	64-QAM	2680.0	-0.90	1 / 25	26.17	25.27	0.336	33.01	-7.74
	256-QAM	2593.0	-0.90	1 / 25	24.14	23.24	0.211	33.01	-9.77
30 MHz	π/2 BPSK	2511.0	-0.90	1 / 39	28.24	27.34	0.542	33.01	-5.67
		2593.0	-0.90	1 / 39	28.61	27.71	0.590	33.01	-5.30
		2675.0	-0.90	1 / 39	28.66	27.76	0.597	33.01	-5.25
	QPSK	2511.0	-0.90	1 / 1	28.70	27.80	0.603	33.01	-5.21
		2593.0	-0.90	1 / 39	28.61	27.71	0.590	33.01	-5.30
		2675.0	-0.90	1 / 39	28.65	**27.75**	0.596	33.01	-5.26
	16-QAM	2675.0	-0.90	1 / 39	27.61	26.71	0.469	33.01	-6.30
	64-QAM	2675.0	-0.90	1 / 39	26.12	25.22	0.332	33.01	-7.79
	256-QAM	2511.0	-0.90	1 / 39	24.14	23.24	0.211	33.01	-9.77
40 MHz	π/2 BPSK	2516.0	-0.90	1 / 53	28.63	27.73	0.593	33.01	-5.28
		2593.0	-0.90	1 / 53	28.60	27.70	0.588	33.01	-5.31
		2670.0	-0.90	1 / 53	28.57	27.67	0.585	33.01	-5.34
	QPSK	2516.0	-0.90	1 / 1	28.67	27.77	0.598	33.01	-5.24
		2593.0	-0.90	1 / 53	28.62	27.72	0.591	33.01	-5.29
		2670.0	-0.90	1 / 53	28.57	27.67	0.585	33.01	-5.34
	16-QAM	2670.0	-0.90	1 / 53	27.66	26.76	0.474	33.01	-6.26
	64-QAM	2670.0	-0.90	1 / 104	26.13	25.23	0.333	33.01	-7.78
	256-QAM	2516.0	-0.90	1 / 53	24.22	23.32	0.215	33.01	-9.69
50 MHz	π/2 BPSK	2521.0	-0.90	1 / 1	28.70	27.80	0.603	33.01	-5.21
		2593.0	-0.90	1 / 66	28.68	27.78	0.600	33.01	-5.23
		2665.0	-0.90	1 / 66	28.64	27.74	0.594	33.01	-5.27
	QPSK	2521.0	-0.90	1 / 66	28.49	27.59	0.574	33.01	-5.42
		2593.0	-0.90	1 / 66	28.59	27.69	0.588	33.01	-5.32
		2665.0	-0.90	1 / 66	28.63	27.73	0.593	33.01	-5.28
	16-QAM	2665.0	-0.90	1 / 131	27.52	26.62	0.459	33.01	-6.39
	64-QAM	2665.0	-0.90	1 / 66	26.35	25.45	0.351	33.01	-7.56
	256-QAM	2665.0	-0.90	1 / 66	24.17	23.27	0.212	33.01	-9.74
60 MHz	π/2 BPSK	2526.0	-0.90	1 / 81	28.62	27.72	0.592	33.01	-5.29
		2593.0	-0.90	1 / 81	28.68	27.78	0.600	33.01	-5.23
		2660.0	-0.90	1 / 1	28.68	27.78	0.600	33.01	-5.23
	QPSK	2526.0	-0.90	1 / 1	28.55	27.65	0.582	33.01	-5.36
		2593.0	-0.90	1 / 81	28.61	27.71	0.590	33.01	-5.30
		2660.0	-0.90	1 / 1	28.70	**27.80**	0.603	33.01	-5.21
	16-QAM	2660.0	-0.90	1 / 1	27.91	27.01	0.502	33.01	-6.01
	64-QAM	2660.0	-0.90	1 / 1	26.14	25.24	0.334	33.01	-7.77
	256-QAM	2593.0	-0.90	1 / 81	24.15	23.25	0.211	33.01	-9.76
70 MHz	π/2 BPSK	2531.0	-0.90	1 / 160	28.67	27.77	0.598	33.01	-5.24
		2593.0	-0.90	1 / 1	28.61	27.71	0.591	33.01	-5.30
		2660.0	-0.90	1 / 1	28.69	**27.79**	0.601	33.01	-5.22
	QPSK	2531.0	-0.90	1 / 1	28.46	27.56	0.570	33.01	-5.45
		2593.0	-0.90	1 / 1	28.69	27.79	0.601	33.01	-5.22
		2660.0	-0.90	1 / 1	28.70	**27.80**	0.602	33.01	-5.21
	16-QAM	2660.0	-0.90	1 / 1	27.88	26.98	0.498	33.01	-6.04
	64-QAM	2660.0	-0.90	1 / 81	26.18	25.28	0.337	33.01	-7.73
	256-QAM	2593.0	-0.90	1 / 81	24.18	23.28	0.213	33.01	-9.73
80 MHz	π/2 BPSK	2536.0	-0.90	1 / 108	28.70	27.80	0.603	33.01	-5.21
		2593.0	-0.90	1 / 108	28.68	27.78	0.600	33.01	-5.23
		2650.0	-0.90	1 / 1	28.64	27.74	0.594	33.01	-5.27
	QPSK	2536.0	-0.90	1 / 215	28.70	27.80	0.603	33.01	-5.21
		2593.0	-0.90	1 / 1	28.69	27.79	0.601	33.01	-5.22
		2650.0	-0.90	1 / 1	28.64	27.74	0.594	33.01	-5.27
	16-QAM	2593.0	-0.90	1 / 1	27.90	27.00	0.501	33.01	-6.01
	64-QAM	2650.0	-0.90	1 / 1	26.24	25.34	0.342	33.01	-7.68
	256-QAM	2536.0	-0.90	1 / 1	24.07	23.17	0.208	33.01	-9.84
90 MHz	π/2 BPSK	2541.0	-0.90	1 / 1	28.42	27.52	0.565	33.01	-5.49
		2593.0	-0.90	1 / 1	28.63	27.73	0.593	33.01	-5.28
		2645.0	-0.90	1 / 1	28.66	27.76	0.597	33.01	-5.25
	QPSK	2541.0	-0.90	1 / 243	28.70	27.80	0.603	33.01	-5.21
		2593.0	-0.90	1 / 122	28.68	**27.78**	0.600	33.01	-5.23
		2645.0	-0.90	1 / 1	28.61	27.71	0.590	33.01	-5.30
	16-QAM	2645.0	-0.90	1 / 1	27.78	26.88	0.487	33.01	-6.13
	64-QAM	2645.0	-0.90	1 / 1	26.41	25.51	0.355	33.01	-7.50
	256-QAM	2541.0	-0.90	1 / 1	24.11	23.21	0.210	33.01	-9.80
100 MHz	π/2 BPSK	2546.0	-0.90	1 / 136	28.53	27.63	0.579	33.01	-5.38
		2593.0	-0.90	1 / 1	28.54	27.64	0.580	33.01	-5.37
		2640.0	-0.90	1 / 1	28.57	27.67	0.584	33.01	-5.34
	QPSK	2546.0	-0.90	1 / 136	28.63	27.73	0.593	33.01	-5.28
		2593.0	-0.90	1 / 1	28.60	27.70	0.589	33.01	-5.31
		2640.0	-0.90	1 / 136	28.67	**27.77**	0.599	33.01	-5.24
	16-QAM	2640.0	-0.90	1 / 136	27.87	26.97	0.498	33.01	-6.04
	64-QAM	2640.0	-0.90	1 / 1	26.24	25.34	0.342	33.01	-7.67
	256-QAM	2593.0	-0.90	1 / 136	24.11	**23.21**	0.209	33.01	-9.80

Table 7-20. Antenna 2b EIRP Data (NR Band n41(PC2))

NR Band n41(PC3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
10 MHz	π/2 BPSK	2501.0	-0.90	1 / 11	25.53	**24.63**	0.290	33.01	-8.38
		2593.0	-0.90	1 / 11	25.45	24.55	0.285	33.01	-8.46
		2685.0	-0.90	1 / 22	25.57	24.67	0.293	33.01	-8.34
	QPSK	2501.0	-0.90	1 / 22	25.59	24.69	0.294	33.01	-8.32
		2593.0	-0.90	1 / 1	25.46	**24.56**	0.286	33.01	-8.45
		2685.0	-0.90	1 / 11	25.22	24.32	0.270	33.01	-8.69
	16-QAM	2501.0	-0.90	1 / 11	24.52	23.62	0.230	33.01	-9.39
	64-QAM	2593.0	-0.90	1 / 1	23.29	22.39	0.174	33.01	-10.62
	256-QAM	2593.0	-0.90	1 / 1	21.13	20.23	0.106	33.01	-12.78
15 MHz	π/2 BPSK	2503.5	-0.90	1 / 36	25.55	24.65	0.292	33.01	-8.36
		2593.0	-0.90	1 / 19	25.64	**24.74**	0.298	33.01	-8.27
		2682.5	-0.90	1 / 36	25.17	24.27	0.268	33.01	-8.74
	QPSK	2503.5	-0.90	1 / 36	25.58	24.68	0.294	33.01	-8.33
		2593.0	-0.90	1 / 36	25.62	**24.72**	0.297	33.01	-8.29
		2682.5	-0.90	1 / 36	25.28	24.38	0.274	33.01	-8.63
	16-QAM	2593.0	-0.90	1 / 1	24.84	23.94	0.248	33.01	-9.07
	64-QAM	2503.5	-0.90	1 / 36	23.40	22.50	0.178	33.01	-10.52
	256-QAM	2593.0	-0.90	1 / 1	21.33	20.43	0.110	33.01	-12.58
20 MHz	π/2 BPSK	2506.0	-0.90	1 / 25	25.27	24.37	0.274	33.01	-8.64
		2593.0	-0.90	1 / 25	25.69	24.79	0.301	33.01	-8.22
		2680.0	-0.90	1 / 25	25.67	24.77	0.300	33.01	-8.24
	QPSK	2506.0	-0.90	1 / 25	25.67	24.77	0.300	33.01	-8.24
		2593.0	-0.90	1 / 25	25.70	**24.80**	0.302	33.01	-8.21
		2680.0	-0.90	1 / 25	25.70	24.80	0.302	33.01	-8.21
	16-QAM	2680.0	-0.90	1 / 1	24.80	23.90	0.245	33.01	-9.11
	64-QAM	2680.0	-0.90	1 / 1	23.44	22.54	0.179	33.01	-10.47
	256-QAM	2680.0	-0.90	1 / 25	21.18	20.28	0.107	33.01	-12.74
30 MHz	π/2 BPSK	2511.0	-0.90	1 / 1	25.26	24.36	0.273	33.01	-8.65
		2593.0	-0.90	1 / 1	25.63	24.73	0.297	33.01	-8.28
		2675.0	-0.90	1 / 1	25.66	**24.76**	0.300	33.01	-8.25
	QPSK	2511.0	-0.90	1 / 76	25.70	24.80	0.302	33.01	-8.21
		2593.0	-0.90	1 / 39	25.65	24.75	0.299	33.01	-8.26
		2675.0	-0.90	1 / 1	25.70	**24.80**	0.302	33.01	-8.21
	16-QAM	2675.0	-0.90	1 / 1	24.81	23.91	0.246	33.01	-9.10
	64-QAM	2675.0	-0.90	1 / 1	23.28	22.38	0.173	33.01	-10.63
	256-QAM	2511.0	-0.90	1 / 1	21.19	20.29	0.107	33.01	-12.72
40 MHz	π/2 BPSK	2516.0	-0.90	1 / 1	25.22	24.32	0.270	33.01	-8.69
		2593.0	-0.90	1 / 53	25.49	24.59	0.288	33.01	-8.42
		2670.0	-0.90	1 / 1	25.63	**24.73**	0.297	33.01	-8.28
	QPSK	2516.0	-0.90	1 / 104	25.59	24.69	0.294	33.01	-8.32
		2593.0	-0.90	1 / 53	25.50	24.60	0.288	33.01	-8.41
		2670.0	-0.90	1 / 104	25.59	24.69	0.295	33.01	-8.32
	16-QAM	2670.0	-0.90	1 / 1	24.77	23.87	0.244	33.01	-9.14
	64-QAM	2670.0	-0.90	1 / 53	23.06	22.16	0.164	33.01	-10.85
	256-QAM	2516.0	-0.90	1 / 1	21.31	20.41	0.110	33.01	-12.60
50 MHz	π/2 BPSK	2521.0	-0.90	1 / 66	25.38	24.48	0.281	33.01	-8.53
		2593.0	-0.90	1 / 66	25.68	**24.78**	0.301	33.01	-8.23
		2665.0	-0.90	1 / 1	25.65	24.75	0.299	33.01	-8.26
	QPSK	2521.0	-0.90	1 / 131	25.70	24.80	0.302	33.01	-8.21
		2593.0	-0.90	1 / 1	25.68	24.78	0.301	33.01	-8.23
		2665.0	-0.90	1 / 1	25.70	**24.80**	0.302	33.01	-8.21
	16-QAM	2665.0	-0.90	1 / 1	24.93	24.03	0.253	33.01	-8.98
	64-QAM	2665.0	-0.90	1 / 66	23.33	22.43	0.175	33.01	-10.58
	256-QAM	2665.0	-0.90	1 / 1	21.29	20.39	0.109	33.01	-12.62
60 MHz	π/2 BPSK	2526.0	-0.90	1 / 81	25.28	24.38	0.274	33.01	-8.63
		2593.0	-0.90	1 / 81	25.64	24.74	0.298	33.01	-8.27
		2660.0	-0.90	1 / 1	25.69	**24.79**	0.301	33.01	-8.22
	QPSK	2526.0	-0.90	1 / 81	25.58	24.68	0.294	33.01	-8.33
		2593.0	-0.90	1 / 81	25.70	**24.80**	0.302	33.01	-8.21
		2660.0	-0.90	1 / 1	25.68	24.78	0.301	33.01	-8.23
	16-QAM	2593.0	-0.90	1 / 81	24.81	23.91	0.246	33.01	-9.10
	64-QAM	2593.0	-0.90	1 / 81	23.24	22.34	0.171	33.01	-10.67
	256-QAM	2593.0	-0.90	1 / 81	21.18	20.28	0.107	33.01	-12.73
70 MHz	π/2 BPSK	2531.0	-0.90	1 / 1	25.58	24.68	0.294	33.01	-8.33
		2593.0	-0.90	1 / 1	25.59	24.69	0.295	33.01	-8.32
		2660.0	-0.90	1 / 1	25.63	24.73	0.297	33.01	-8.28
	QPSK	2531.0	-0.90	1 / 160	25.54	24.64	0.291	33.01	-8.37
		2593.0	-0.90	1 / 81	25.68	**24.78**	0.301	33.01	-8.23
		2660.0	-0.90	1 / 1	25.65	24.75	0.298	33.01	-8.26
	16-QAM	2660.0	-0.90	1 / 1	24.80	23.90	0.245	33.01	-9.11
	64-QAM	2660.0	-0.90	1 / 1	23.27	22.37	0.172	33.01	-10.64
	256-QAM	2660.0	-0.90	1 / 1	21.10	20.20	0.105	33.01	-12.81
80 MHz	π/2 BPSK	2536.0	-0.90	1 / 108	25.69	24.79	0.301	33.01	-8.22
		2593.0	-0.90	1 / 108	25.65	24.75	0.298	33.01	-8.26
		2650.0	-0.90	1 / 1	25.68	**24.78**	0.301	33.01	-8.23
	QPSK	2536.0	-0.90	1 / 1	25.45	24.55	0.285	33.01	-8.46
		2593.0	-0.90	1 / 1	25.61	24.71	0.296	33.01	-8.30
		2650.0	-0.90	1 / 1	25.68	**24.78**	0.301	33.01	-8.23
	16-QAM	2650.0	-0.90	1 / 1	24.88	23.98	0.250	33.01	-9.03
	64-QAM	2650.0	-0.90	1 / 1	23.22	22.32	0.171	33.01	-10.69
	256-QAM	2650.0	-0.90	1 / 1	21.15	20.25	0.106	33.01	-12.76
90 MHz	π/2 BPSK	2541.0	-0.90	1 / 1	25.37	24.47	0.280	33.01	-8.54
		2593.0	-0.90	1 / 1	25.70	**24.80**	0.302	33.01	-8.21
		2645.0	-0.90	1 / 1	25.67	24.77	0.300	33.01	-8.24
	QPSK	2541.0	-0.90	1 / 243	25.56	24.66	0.292	33.01	-8.35
		2593.0	-0.90	1 / 122	25.55	24.65	0.292	33.01	-8.36
		2645.0	-0.90	1 / 1	25.64	24.74	0.298	33.01	-8.27
	16-QAM	2593.0	-0.90	1 / 1	24.79	23.89	0.245	33.01	-9.12
	64-QAM	2645.0	-0.90	1 / 1	23.18	22.28	0.169	33.01	-10.73
	256-QAM	2645.0	-0.90	1 / 122	21.33	20.43	0.110	33.01	-12.58
100 MHz	π/2 BPSK	2546.0	-0.90	1 / 136	25.68	24.78	0.301	33.01	-8.23
		2593.0	-0.90	1 / 1	25.68	**24.78**	0.301	33.01	-8.23
		2640.0	-0.90	1 / 1	25.64	24.74	0.298	33.01	-8.27
	QPSK	2546.0	-0.90	1 / 136	25.37	24.47	0.280	33.01	-8.54
		2593.0	-0.90	1 / 1	25.62	24.72	0.296	33.01	-8.29
		2640.0	-0.90	1 / 1	25.61	24.71	0.296	33.01	-8.30
	16-QAM	2640.0	-0.90	1 / 1	24.59	23.69	0.234	33.01	-9.32
	64-QAM	2640.0	-0.90	1 / 1	23.33	22.43	0.175	33.01	-10.58
	256-QAM	2546.0	-0.90	1 / 1	21.07	20.17	0.104	33.01	-12.84

Table 7-21. Antenna 2b EIRP Data (NR Band n41(PC3))

ULCA LTE Band 7

Power State	Band	Bandwidth (PCC + SCC)	PCC					SCC					ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset						
Max	LTE B7	20MHz + 20MHz	QPSK	20850	2510.0	1	99	QPSK	21048	2529.8	1	0	24.02	-0.20	23.82	0.241	33.01	-9.19
				21100	2535.0	1	99		21298	2554.8	1	0	24.19	-0.20	**23.99**	0.251	33.01	-9.02
				21350	2560.0	1	0		21152	2540.2	1	99	24.15	-0.20	23.95	0.248	33.01	-9.06
			QPSK	21100	2535	100	0	QPSK	21298	2554.8	100	0	23.30	-0.20	23.10	0.204	33.01	-9.91
			16-QAM	21100	2535	100	0	16-QAM	21298	2554.8	100	0	22.19	-0.20	**21.99**	0.158	33.01	-11.02
			64-QAM	21100	2535	100	0	64-QAM	21298	2554.8	100	0	21.54	-0.20	**21.34**	0.136	33.01	-11.67
			256-QAM	21100	2535	100	0	256-QAM	21298	2554.8	100	0	20.38	-0.20	**20.18**	0.104	33.01	-12.83

Table 7-22. Antenna 2b EIRP Data (ULCA LTE Band 7)

ULCA LTE Band 41(PC2)

Power State	Band	Bandwidth (PCC + SCC)	PCC					SCC					ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset						
Max	LTE B41 (PC2)	20MHz + 20MHz	QPSK	39750	2506.0	1	99	QPSK	39948	2525.8	1	0	28.51	-0.90	**27.61**	0.577	33.01	-5.40
				40620	2593.0	1	99		40818	2612.8	1	0	28.25	-0.90	27.35	0.543	33.01	-5.66
				41490	2680.0	1	0		41292	2660.2	1	99	28.39	-0.90	27.49	0.561	33.01	-5.52
			QPSK	39750	2506	100	0	QPSK	39948	2525.8	100	0	27.77	-0.90	26.87	0.486	33.01	-6.14
			16-QAM	39750	2506	100	0	16-QAM	39948	2525.8	100	0	26.71	-0.90	**25.81**	0.381	33.01	-7.20
			64-QAM	39750	2506	100	0	64-QAM	39948	2525.8	100	0	25.73	-0.90	**24.83**	0.304	33.01	-8.18
			256-QAM	39750	2506	100	0	256-QAM	39948	2525.8	100	0	23.64	-0.90	**22.74**	0.188	33.01	-10.27

Table 7-23. Antenna 2b EIRP Data (ULCA LTE Band 41 (PC2))

ULCA LTE Band 41(PC3)

Power State	Band	Bandwidth (PCC + SCC)	PCC					SCC					ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset						
Max	LTE B41 (PC3)	20MHz + 20MHz	QPSK	39750	2506.0	1	99	QPSK	39948	2525.8	1	0	25.33	-0.90	24.43	0.277	33.01	-8.58
				40620	2593.0	1	99		40818	2612.8	1	0	25.22	-0.90	24.32	0.270	33.01	-8.69
				41490	2680.0	1	0		41292	2660.2	1	99	25.27	-0.90	24.37	0.274	33.01	-8.64
			QPSK	39750	2506	100	0	QPSK	39948	2525.8	100	0	23.15	-0.90	22.25	0.168	33.01	-10.76
			16-QAM	39750	2506	100	0	16-QAM	39948	2525.8	100	0	22.19	-0.90	21.29	0.135	33.01	-11.72
			64-QAM	39750	2506	100	0	64-QAM	39948	2525.8	100	0	21.13	-0.90	20.23	0.105	33.01	-12.78
			256-QAM	39750	2506	100	0	256-QAM	39948	2525.8	100	0	20.30	-0.90	19.40	0.087	33.01	-13.61

Table 7-24. Antenna 2b EIRP Data (ULCA LTE Band 41 (PC3))

7.6.3 Antenna 3a - EIRP

LTE-Band 30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2307.5	1.60	1 / 12	21.70	23.30	0.214	23.98	-0.68
		2310.0	1.60	1 / 12	21.78	23.38	0.218	23.98	-0.60
		2312.5	1.60	1 / 24	21.82	**23.42**	0.220	23.98	-0.56
	16-QAM	2310.0	1.60	1 / 24	20.89	22.49	0.177	23.98	-1.49
	64-QAM	2310.0	1.60	1 / 12	19.91	21.51	0.142	23.98	-2.47
	256-QAM	2312.5	1.60	1 / 24	17.02	18.62	0.073	23.98	-5.36
10 MHz	QPSK	2310.0	1.60	1 / 0	21.75	**23.35**	0.216	23.98	-0.63
	16-QAM	2310.0	1.60	1 / 0	20.82	22.42	0.175	23.98	-1.56
	64-QAM	2310.0	1.60	1 / 25	19.84	21.44	0.139	23.98	-2.54
	256-QAM	2310.0	1.60	1 / 25	16.92	18.52	0.071	23.98	-5.46

Table 7-25. Antenna 3a EIRP Data (LTE Band 30)

LTE-Band 7

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2502.5	2.60	1 / 24	24.70	**27.30**	0.537	33.01	-5.71
		2535.0	2.60	1 / 0	24.69	27.29	0.536	33.01	-5.72
		2567.5	2.60	1 / 0	24.50	27.10	0.513	33.01	-5.91
	16-QAM	2502.5	2.60	1 / 12	23.69	26.29	0.426	33.01	-6.72
	64-QAM	2502.5	2.60	1 / 12	22.66	25.26	0.336	33.01	-7.75
	256-QAM	2535.0	2.60	1 / 12	19.79	22.39	0.173	33.01	-10.62
10 MHz	QPSK	2505.0	2.60	1 / 0	24.70	**27.30**	0.537	33.01	-5.71
		2535.0	2.60	1 / 25	24.69	27.29	0.536	33.01	-5.72
		2565.0	2.60	1 / 0	24.52	27.12	0.515	33.01	-5.89
	16-QAM	2505.0	2.60	1 / 25	23.66	26.26	0.423	33.01	-6.75
	64-QAM	2565.0	2.60	1 / 0	22.68	25.28	0.337	33.01	-7.73
	256-QAM	2565.0	2.60	1 / 25	19.71	22.31	0.170	33.01	-10.70
15 MHz	QPSK	2507.5	2.60	1 / 0	24.67	**27.27**	0.533	33.01	-5.74
		2535.0	2.60	1 / 0	24.50	27.10	0.513	33.01	-5.91
		2562.5	2.60	1 / 0	24.45	27.05	0.507	33.01	-5.96
	16-QAM	2535.0	2.60	1 / 37	23.59	26.19	0.416	33.01	-6.82
	64-QAM	2507.5	2.60	1 / 74	22.67	25.27	0.337	33.01	-7.74
	256-QAM	2562.5	2.60	1 / 0	19.77	22.37	0.173	33.01	-10.64
20 MHz	QPSK	2510.0	2.60	1 / 0	24.64	27.24	0.530	33.01	-5.77
		2535.0	2.60	1 / 0	24.70	**27.30**	0.537	33.01	-5.71
		2560.0	2.60	1 / 50	24.60	27.20	0.525	33.01	-5.81
	16-QAM	2510.0	2.60	1 / 0	23.72	26.32	0.429	33.01	-6.69
	64-QAM	2535.0	2.60	1 / 0	22.70	25.30	0.339	33.01	-7.71
	256-QAM	2560.0	2.60	1 / 99	19.63	**22.23**	0.167	33.01	-10.78

Table 7-26. Antenna 3a EIRP Data (LTE Band 7)

LTE-Band 41 (PC2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2498.5	1.90	1 / 0	26.69	**28.59**	0.723	33.01	-4.42
		2593.0	1.90	1 / 0	26.35	28.25	0.668	33.01	-4.76
		2687.5	1.90	1 / 0	26.27	28.17	0.656	33.01	-4.84
	16-QAM	2498.5	1.90	1 / 0	25.67	27.57	0.571	33.01	-5.44
	64-QAM	2498.5	1.90	1 / 24	25.15	27.05	0.507	33.01	-5.96
	256-QAM	2498.5	1.90	1 / 0	24.22	26.12	0.409	33.01	-6.89
10 MHz	QPSK	2501.0	1.90	1 / 49	26.68	**28.58**	0.721	33.01	-4.43
		2593.0	1.90	1 / 0	26.21	28.11	0.647	33.01	-4.90
		2685.0	1.90	1 / 0	26.29	28.19	0.659	33.01	-4.82
	16-QAM	2501.0	1.90	1 / 49	25.64	27.54	0.568	33.01	-5.47
	64-QAM	2501.0	1.90	1 / 0	25.03	26.93	0.493	33.01	-6.08
	256-QAM	2501.0	1.90	1 / 0	24.59	26.49	0.446	33.01	-6.52
15 MHz	QPSK	2503.5	1.90	1 / 0	26.70	**28.60**	0.724	33.01	-4.41
		2593.0	1.90	1 / 0	26.20	28.10	0.646	33.01	-4.91
		2682.5	1.90	1 / 0	26.22	28.12	0.649	33.01	-4.89
	16-QAM	2503.5	1.90	1 / 0	25.42	27.32	0.540	33.01	-5.69
	64-QAM	2503.5	1.90	1 / 74	25.22	27.12	0.515	33.01	-5.89
	256-QAM	2503.5	1.90	1 / 0	24.59	26.49	0.446	33.01	-6.52
20 MHz	QPSK	2506.0	1.90	1 / 0	26.70	**28.60**	0.724	33.01	-4.41
		2593.0	1.90	1 / 0	26.24	28.14	0.652	33.01	-4.87
		2680.0	1.90	1 / 99	26.29	28.19	0.659	33.01	-4.82
	16-QAM	2506.0	1.90	1 / 0	25.67	27.57	0.571	33.01	-5.44
	64-QAM	2506.0	1.90	1 / 0	25.15	27.05	0.507	33.01	-5.96
	256-QAM	2506.0	1.90	1 / 0	24.57	26.47	0.444	33.01	-6.54

Table 7-27. Antenna 3a EIRP Data (LTE Band 41(PC2))

LTE-Band 41 (PC3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2498.5	1.90	1 / 24	25.69	**27.59**	0.574	33.01	-5.42
		2593.0	1.90	1 / 0	25.32	27.22	0.527	33.01	-5.79
		2687.5	1.90	1 / 0	25.26	27.16	0.520	33.01	-5.85
	16-QAM	2498.5	1.90	1 / 24	24.46	26.36	0.433	33.01	-6.65
	64-QAM	2498.5	1.90	1 / 24	24.17	26.07	0.405	33.01	-6.94
	256-QAM	2498.5	1.90	1 / 0	22.44	24.34	0.272	33.01	-8.67
10 MHz	QPSK	2501.0	1.90	1 / 49	25.66	**27.56**	0.570	33.01	-5.45
		2593.0	1.90	1 / 0	25.39	27.29	0.536	33.01	-5.72
		2685.0	1.90	1 / 49	25.22	27.12	0.515	33.01	-5.89
	16-QAM	2501.0	1.90	1 / 49	24.52	26.42	0.439	33.01	-6.59
	64-QAM	2501.0	1.90	1 / 49	24.13	26.03	0.401	33.01	-6.98
	256-QAM	2501.0	1.90	1 / 0	22.56	24.46	0.279	33.01	-8.55
15 MHz	QPSK	2503.5	1.90	1 / 37	25.70	**27.60**	0.575	33.01	-5.41
		2593.0	1.90	1 / 0	25.28	27.18	0.522	33.01	-5.83
		2682.5	1.90	1 / 74	25.37	27.27	0.533	33.01	-5.74
	16-QAM	2503.5	1.90	1 / 37	24.46	26.36	0.433	33.01	-6.65
	64-QAM	2503.5	1.90	1 / 37	24.20	26.10	0.407	33.01	-6.91
	256-QAM	2503.5	1.90	1 / 74	22.56	24.46	0.279	33.01	-8.55
20 MHz	QPSK	2506.0	1.90	1 / 50	25.70	**27.60**	0.575	33.01	-5.41
		2593.0	1.90	1 / 50	25.22	27.12	0.515	33.01	-5.89
		2680.0	1.90	1 / 50	25.48	27.38	0.547	33.01	-5.63
	16-QAM	2506.0	1.90	1 / 50	24.13	26.03	0.401	33.01	-6.98
	64-QAM	2506.0	1.90	1 / 50	24.27	26.17	0.414	33.01	-6.84
	256-QAM	2506.0	1.90	1 / 50	22.54	24.44	0.278	33.01	-8.57

Table 7-28. Antenna 3a EIRP Data (LTE Band 41(PC3))

NR Band n30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	π/2 BPSK	2307.5	1.60	1 / 23	21.79	23.39	0.218	23.98	-0.59
		2310.0	1.60	1 / 23	21.58	**23.18**	0.208	23.98	-0.80
		2312.5	1.60	1 / 12	21.78	23.38	0.218	23.98	-0.60
	QPSK	2307.5	1.60	1 / 12	21.90	23.50	0.224	23.98	-0.48
		2310.0	1.60	1 / 1	21.69	**23.29**	0.213	23.98	-0.69
		2312.5	1.60	1 / 1	21.90	23.50	0.224	23.98	-0.48
	16-QAM	2307.5	1.60	1 / 12	20.89	22.49	0.177	23.98	-1.49
	64-QAM	2310.0	1.60	1 / 12	19.72	21.32	0.136	23.98	-2.66
	256-QAM	2310.0	1.60	1 / 23	16.95	18.55	0.072	23.98	-5.43
10 MHz	π/2 BPSK	2310.0	1.60	1 / 25	21.83	**23.43**	0.220	23.98	-0.55
	QPSK	2310.0	1.60	1 / 25	21.75	**23.35**	0.216	23.98	-0.63
	16-QAM	2310.0	1.60	1 / 25	20.87	22.47	0.177	23.98	-1.51
	64-QAM	2310.0	1.60	1 / 25	19.93	21.53	0.142	23.98	-2.45
	256-QAM	2310.0	1.60	1 / 25	16.90	18.50	0.071	23.98	-5.48

Table 7-29. Antenna 3a EIRP Data (NR Band n30)

NR Band n7

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	π/2 BPSK	2502.5	2.60	1 / 23	24.37	26.97	0.497	33.01	-6.04
		2535.0	2.60	1 / 23	24.62	**27.22**	0.527	33.01	-5.79
		2567.5	2.60	1 / 1	24.49	27.09	0.511	33.01	-5.93
	QPSK	2502.5	2.60	1 / 23	24.43	27.03	0.505	33.01	-5.98
		2535.0	2.60	1 / 23	24.70	**27.30**	0.537	33.01	-5.71
		2567.5	2.60	1 / 23	24.54	27.14	0.518	33.01	-5.87
	16-QAM	2535.0	2.60	1 / 23	23.80	26.40	0.437	33.01	-6.61
	64-QAM	2567.5	2.60	1 / 12	22.20	24.80	0.302	33.01	-8.21
	256-QAM	2535.0	2.60	1 / 12	20.07	22.67	0.185	33.01	-10.34
10 MHz	π/2 BPSK	2505.0	2.60	1 / 50	24.29	26.89	0.489	33.01	-6.12
		2535.0	2.60	1 / 50	24.56	**27.16**	0.520	33.01	-5.85
		2565.0	2.60	1 / 50	24.43	27.03	0.505	33.01	-5.98
	QPSK	2505.0	2.60	1 / 50	24.43	27.03	0.504	33.01	-5.98
		2535.0	2.60	1 / 50	24.69	**27.29**	0.536	33.01	-5.72
		2565.0	2.60	1 / 50	24.52	27.12	0.516	33.01	-5.89
	16-QAM	2535.0	2.60	1 / 1	23.75	26.35	0.431	33.01	-6.66
	64-QAM	2535.0	2.60	1 / 50	22.25	24.85	0.306	33.01	-8.16
	256-QAM	2535.0	2.60	1 / 50	20.22	22.82	0.192	33.01	-10.19
15 MHz	π/2 BPSK	2507.5	2.60	1 / 73	24.55	27.15	0.519	33.01	-5.86
		2535.0	2.60	1 / 73	24.66	**27.26**	0.532	33.01	-5.75
		2562.5	2.60	1 / 1	24.64	27.24	0.530	33.01	-5.77
	QPSK	2507.5	2.60	1 / 73	24.46	27.06	0.508	33.01	-5.95
		2535.0	2.60	1 / 73	24.69	**27.29**	0.536	33.01	-5.72
		2562.5	2.60	1 / 73	24.64	27.24	0.530	33.01	-5.77
	16-QAM	2562.5	2.60	1 / 37	23.77	26.37	0.434	33.01	-6.64
	64-QAM	2562.5	2.60	1 / 1	22.22	24.82	0.304	33.01	-8.19
	256-QAM	2562.5	2.60	1 / 37	20.17	22.77	0.189	33.01	-10.24
20 MHz	π/2 BPSK	2510.0	2.60	1 / 98	24.59	27.19	0.523	33.01	-5.82
		2535.0	2.60	1 / 98	24.68	**27.28**	0.534	33.01	-5.73
		2560.0	2.60	1 / 50	24.65	27.25	0.531	33.01	-5.76
	QPSK	2510.0	2.60	1 / 98	24.61	27.21	0.526	33.01	-5.80
		2535.0	2.60	1 / 98	24.70	**27.30**	0.537	33.01	-5.71
		2560.0	2.60	1 / 50	24.68	27.28	0.535	33.01	-5.73
	16-QAM	2535.0	2.60	1 / 98	23.75	26.35	0.431	33.01	-6.66
	64-QAM	2535.0	2.60	1 / 98	22.49	25.09	0.323	33.01	-7.92
	256-QAM	2560.0	2.60	1 / 98	20.27	22.87	0.194	33.01	-10.14
25 MHz	π/2 BPSK	2512.5	2.60	1 / 131	24.62	**27.22**	0.527	33.01	-5.79
		2535.0	2.60	1 / 66	24.61	27.21	0.526	33.01	-5.80
		2557.5	2.60	1 / 1	24.60	27.20	0.525	33.01	-5.81
	QPSK	2512.5	2.60	1 / 131	24.61	27.21	0.526	33.01	-5.80
		2535.0	2.60	1 / 131	24.67	27.27	0.533	33.01	-5.74
		2557.5	2.60	1 / 1	24.70	**27.30**	0.536	33.01	-5.71
	16-QAM	2535.0	2.60	1 / 131	23.88	26.48	0.444	33.01	-6.53
	64-QAM	2557.5	2.60	1 / 1	22.15	24.75	0.298	33.01	-8.26
	256-QAM	2535.0	2.60	1 / 131	20.23	22.83	0.192	33.01	-10.18
30 MHz	π/2 BPSK	2515.0	2.60	1 / 158	24.56	27.16	0.520	33.01	-5.85
		2535.0	2.60	1 / 158	24.69	**27.29**	0.536	33.01	-5.72
		2555.0	2.60	1 / 80	24.69	27.29	0.536	33.01	-5.72
	QPSK	2515.0	2.60	1 / 158	24.68	**27.28**	0.535	33.01	-5.73
		2535.0	2.60	1 / 158	24.67	27.27	0.533	33.01	-5.74
		2555.0	2.60	1 / 1	24.67	27.27	0.534	33.01	-5.74
	16-QAM	2535.0	2.60	1 / 80	23.83	26.43	0.439	33.01	-6.58
	64-QAM	2535.0	2.60	1 / 1	22.26	24.86	0.306	33.01	-8.15
	256-QAM	2535.0	2.60	1 / 80	20.18	22.78	0.190	33.01	-10.23
35 MHz	π/2 BPSK	2517.5	2.60	1 / 186	24.59	**27.19**	0.524	33.01	-5.82
		2535.0	2.60	1 / 90	24.54	27.14	0.518	33.01	-5.87
		2552.5	2.60	1 / 90	24.51	27.11	0.514	33.01	-5.90
	QPSK	2517.5	2.60	1 / 186	24.62	**27.22**	0.527	33.01	-5.79
		2535.0	2.60	1 / 90	24.57	27.17	0.521	33.01	-5.84
		2552.5	2.60	1 / 186	24.53	27.13	0.517	33.01	-5.88
	16-QAM	2517.5	2.60	1 / 186	23.74	26.34	0.430	33.01	-6.67
	64-QAM	2535.0	2.60	1 / 186	22.22	24.82	0.304	33.01	-8.19
	256-QAM	2517.5	2.60	1 / 186	20.02	22.62	0.183	33.01	-10.39
40 MHz	π/2 BPSK	2520.0	2.60	1 / 214	24.54	27.14	0.518	33.01	-5.87
		2535.0	2.60	1 / 214	24.60	**27.20**	0.524	33.01	-5.81
		2550.0	2.60	1 / 108	24.56	27.16	0.520	33.01	-5.85
	QPSK	2520.0	2.60	1 / 214	24.69	**27.29**	0.536	33.01	-5.72
		2535.0	2.60	1 / 214	24.58	27.18	0.522	33.01	-5.83
		2550.0	2.60	1 / 1	24.55	27.15	0.518	33.01	-5.86
	16-QAM	2550.0	2.60	1 / 108	23.58	26.18	0.415	33.01	-6.83
	64-QAM	2550.0	2.60	1 / 108	22.09	24.69	0.294	33.01	-8.32
	256-QAM	2535.0	2.60	1 / 108	20.31	22.91	0.195	33.01	-10.10

Table 7-30. Antenna 3a EIRP Data (NR Band n7)

NR Band n41(PC2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
10 MHz	π/2 BPSK	2501.0	1.90	1 / 11	26.41	28.31	0.678	33.01	-4.70
		2593.0	1.90	1 / 22	26.68	**28.58**	0.722	33.01	-4.43
		2685.0	1.90	1 / 22	26.61	28.51	0.710	33.01	-4.50
	QPSK	2501.0	1.90	1 / 1	26.68	28.58	0.721	33.01	-4.43
		2593.0	1.90	1 / 22	26.66	28.56	0.718	33.01	-4.45
		2685.0	1.90	1 / 22	26.58	28.48	0.705	33.01	-4.53
	16-QAM	2593.0	1.90	1 / 11	25.51	27.41	0.551	33.01	-5.60
	64-QAM	2501.0	1.90	1 / 22	24.15	26.05	0.403	33.01	-6.96
	256-QAM	2501.0	1.90	1 / 22	22.60	24.50	0.282	33.01	-8.51
15 MHz	π/2 BPSK	2503.5	1.90	1 / 19	26.56	28.46	0.702	33.01	-4.55
		2593.0	1.90	1 / 36	26.69	**28.59**	0.723	33.01	-4.42
		2682.5	1.90	1 / 36	26.69	28.59	0.723	33.01	-4.42
	QPSK	2503.5	1.90	1 / 36	26.23	28.13	0.650	33.01	-4.88
		2593.0	1.90	1 / 36	26.58	28.48	0.704	33.01	-4.53
		2682.5	1.90	1 / 36	26.50	28.40	0.692	33.01	-4.61
	16-QAM	2593.0	1.90	1 / 36	25.71	27.61	0.577	33.01	-5.40
	64-QAM	2682.5	1.90	1 / 36	24.17	26.07	0.404	33.01	-6.94
	256-QAM	2503.5	1.90	1 / 19	22.51	24.41	0.276	33.01	-8.60
20 MHz	π/2 BPSK	2506.0	1.90	1 / 1	26.70	**28.60**	0.724	33.01	-4.41
		2593.0	1.90	1 / 49	26.35	28.25	0.668	33.01	-4.76
		2680.0	1.90	1 / 25	26.27	28.17	0.656	33.01	-4.84
	QPSK	2506.0	1.90	1 / 1	26.47	28.37	0.687	33.01	-4.64
		2593.0	1.90	1 / 49	26.33	28.23	0.665	33.01	-4.78
		2680.0	1.90	1 / 49	26.31	28.21	0.662	33.01	-4.80
	16-QAM	2593.0	1.90	1 / 49	25.61	27.51	0.564	33.01	-5.50
	64-QAM	2593.0	1.90	1 / 25	24.30	26.20	0.417	33.01	-6.81
	256-QAM	2680.0	1.90	1 / 25	21.96	23.86	0.243	33.01	-9.15
30 MHz	π/2 BPSK	2511.0	1.90	1 / 1	26.66	**28.56**	0.718	33.01	-4.45
		2593.0	1.90	1 / 76	26.38	28.28	0.673	33.01	-4.73
		2675.0	1.90	1 / 76	26.48	28.38	0.689	33.01	-4.63
	QPSK	2511.0	1.90	1 / 39	26.53	28.43	0.697	33.01	-4.58
		2593.0	1.90	1 / 76	26.35	28.25	0.669	33.01	-4.76
		2675.0	1.90	1 / 76	26.42	28.32	0.679	33.01	-4.69
	16-QAM	2675.0	1.90	1 / 76	25.48	27.38	0.547	33.01	-5.63
	64-QAM	2593.0	1.90	1 / 76	24.08	25.98	0.396	33.01	-7.03
	256-QAM	2675.0	1.90	1 / 39	21.85	23.75	0.237	33.01	-9.26
40 MHz	π/2 BPSK	2516.0	1.90	1 / 104	26.55	**28.45**	0.700	33.01	-4.56
		2593.0	1.90	1 / 53	26.26	28.16	0.654	33.01	-4.85
		2670.0	1.90	1 / 104	26.41	28.31	0.677	33.01	-4.70
	QPSK	2516.0	1.90	1 / 104	26.55	28.45	0.700	33.01	-4.56
		2593.0	1.90	1 / 104	26.31	28.21	0.662	33.01	-4.80
		2670.0	1.90	1 / 53	26.38	28.28	0.672	33.01	-4.73
	16-QAM	2593.0	1.90	1 / 104	25.41	27.31	0.538	33.01	-5.70
	64-QAM	2593.0	1.90	1 / 53	24.10	26.00	0.398	33.01	-7.01
	256-QAM	2516.0	1.90	1 / 104	21.78	23.68	0.233	33.01	-9.33
50 MHz	π/2 BPSK	2521.0	1.90	1 / 66	26.70	**28.60**	0.724	33.01	-4.41
		2593.0	1.90	1 / 66	26.61	28.51	0.710	33.01	-4.50
		2665.0	1.90	1 / 131	26.39	28.29	0.675	33.01	-4.72
	QPSK	2521.0	1.90	1 / 66	26.64	28.54	0.714	33.01	-4.47
		2593.0	1.90	1 / 66	26.20	28.10	0.645	33.01	-4.91
		2665.0	1.90	1 / 66	26.31	28.21	0.662	33.01	-4.80
	16-QAM	2665.0	1.90	1 / 66	25.30	27.20	0.525	33.01	-5.81
	64-QAM	2593.0	1.90	1 / 131	24.07	25.97	0.396	33.01	-7.04
	256-QAM	2593.0	1.90	1 / 66	21.67	23.57	0.228	33.01	-9.44
60 MHz	π/2 BPSK	2526.0	1.90	1 / 1	26.64	28.54	0.714	33.01	-4.47
		2593.0	1.90	1 / 81	26.29	28.19	0.660	33.01	-4.82
		2660.0	1.90	1 / 1	26.40	28.30	0.676	33.01	-4.71
	QPSK	2526.0	1.90	1 / 1	26.70	**28.60**	0.724	33.01	-4.41
		2593.0	1.90	1 / 1	26.35	28.25	0.668	33.01	-4.76
		2660.0	1.90	1 / 1	26.37	28.27	0.671	33.01	-4.74
	16-QAM	2593.0	1.90	1 / 160	25.52	27.42	0.553	33.01	-5.59
	64-QAM	2593.0	1.90	1 / 1	24.30	26.20	0.417	33.01	-6.81
	256-QAM	2593.0	1.90	1 / 1	21.90	23.80	0.240	33.01	-9.21
70 MHz	π/2 BPSK	2531.0	1.90	1 / 160	26.67	**28.57**	0.719	33.01	-4.44
		2593.0	1.90	1 / 1	26.35	28.25	0.668	33.01	-4.76
		2660.0	1.90	1 / 1	26.47	28.37	0.687	33.01	-4.64
	QPSK	2531.0	1.90	1 / 81	26.55	28.45	0.700	33.01	-4.56
		2593.0	1.90	1 / 1	26.35	28.25	0.669	33.01	-4.76
		2660.0	1.90	1 / 1	26.23	28.13	0.651	33.01	-4.88
	16-QAM	2593.0	1.90	1 / 1	25.81	27.71	0.590	33.01	-5.30
	64-QAM	2593.0	1.90	1 / 1	24.26	26.16	0.413	33.01	-6.85
	256-QAM	2593.0	1.90	1 / 1	21.87	23.77	0.239	33.01	-9.24
80 MHz	π/2 BPSK	2536.0	1.90	1 / 108	26.60	28.50	0.708	33.01	-4.51
		2593.0	1.90	1 / 1	26.33	28.23	0.666	33.01	-4.78
		2650.0	1.90	1 / 108	26.52	28.42	0.695	33.01	-4.59
	QPSK	2536.0	1.90	1 / 215	26.70	**28.60**	0.724	33.01	-4.41
		2593.0	1.90	1 / 1	26.36	28.26	0.669	33.01	-4.75
		2650.0	1.90	1 / 1	26.24	28.14	0.652	33.01	-4.87
	16-QAM	2593.0	1.90	1 / 1	25.51	27.41	0.551	33.01	-5.60
	64-QAM	2593.0	1.90	1 / 1	24.13	26.03	0.401	33.01	-6.98
	256-QAM	2593.0	1.90	1 / 1	21.87	23.77	0.238	33.01	-9.24
90 MHz	π/2 BPSK	2541.0	1.90	1 / 1	26.70	**28.60**	0.724	33.01	-4.41
		2593.0	1.90	1 / 1	26.32	28.22	0.664	33.01	-4.79
		2645.0	1.90	1 / 122	26.36	28.26	0.670	33.01	-4.75
	QPSK	2541.0	1.90	1 / 243	26.69	28.59	0.723	33.01	-4.42
		2593.0	1.90	1 / 243	26.30	28.20	0.661	33.01	-4.81
		2645.0	1.90	1 / 122	26.29	28.19	0.659	33.01	-4.82
	16-QAM	2593.0	1.90	1 / 1	25.47	27.37	0.546	33.01	-5.64
	64-QAM	2645.0	1.90	1 / 1	24.06	25.96	0.394	33.01	-7.05
	256-QAM	2645.0	1.90	1 / 1	21.85	23.75	0.237	33.01	-9.27
100 MHz	π/2 BPSK	2546.0	1.90	1 / 136	26.50	28.40	0.692	33.01	-4.61
		2593.0	1.90	1 / 1	26.25	28.15	0.654	33.01	-4.86
		2640.0	1.90	1 / 1	26.57	**28.47**	0.703	33.01	-4.54
	QPSK	2546.0	1.90	1 / 136	26.56	28.46	0.701	33.01	-4.55
		2593.0	1.90	1 / 1	26.30	28.20	0.660	33.01	-4.81
		2640.0	1.90	1 / 136	26.29	28.19	0.659	33.01	-4.82
	16-QAM	2593.0	1.90	1 / 1	25.66	27.56	0.570	33.01	-5.45
	64-QAM	2593.0	1.90	1 / 1	24.07	25.97	0.395	33.01	-7.04
	256-QAM	2593.0	1.90	1 / 1	21.86	23.76	0.238	33.01	-9.25

Table 7-31. Antenna 3a EIRP Data (NR Band n41(PC2))

NR Band n41(PC3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
10 MHz	π/2 BPSK	2501.0	1.90	1 / 1	25.69	**27.59**	0.574	33.01	-5.42
		2593.0	1.90	1 / 1	25.50	**27.40**	0.550	33.01	-5.61
		2685.0	1.90	1 / 11	25.34	27.24	0.530	33.01	-5.77
	QPSK	2501.0	1.90	1 / 22	25.66	27.56	0.570	33.01	-5.45
		2593.0	1.90	1 / 1	25.49	**27.39**	0.549	33.01	-5.62
		2685.0	1.90	1 / 1	25.38	27.28	0.535	33.01	-5.73
	16-QAM	2593.0	1.90	1 / 11	24.86	26.76	0.475	33.01	-6.25
	64-QAM	2593.0	1.90	1 / 11	23.34	25.24	0.334	33.01	-7.77
	256-QAM	2593.0	1.90	1 / 11	21.11	23.01	0.200	33.01	-10.00
		2685.0	1.90	1 / 1	21.05	22.95	0.197	33.01	-10.06
15 MHz	π/2 BPSK	2503.5	1.90	1 / 19	25.63	27.53	0.566	33.01	-5.48
		2593.0	1.90	1 / 36	25.64	**27.54**	0.568	33.01	-5.47
		2682.5	1.90	1 / 1	25.37	27.27	0.533	33.01	-5.74
	QPSK	2503.5	1.90	1 / 19	25.70	27.60	0.575	33.01	-5.41
		2593.0	1.90	1 / 1	25.65	27.55	0.569	33.01	-5.46
		2682.5	1.90	1 / 1	25.44	27.34	0.542	33.01	-5.67
	16-QAM	2593.0	1.90	1 / 36	25.01	26.91	0.491	33.01	-6.10
	64-QAM	2593.0	1.90	1 / 36	23.45	25.35	0.343	33.01	-7.66
	256-QAM	2682.5	1.90	1 / 19	21.19	23.09	0.204	33.01	-9.92
20 MHz	π/2 BPSK	2506.0	1.90	1 / 49	25.70	27.60	0.575	33.01	-5.41
		2593.0	1.90	1 / 25	25.29	**27.19**	0.524	33.01	-5.82
		2680.0	1.90	1 / 25	25.25	27.15	0.519	33.01	-5.86
	QPSK	2506.0	1.90	1 / 49	25.68	27.58	0.573	33.01	-5.43
		2593.0	1.90	1 / 49	25.29	27.19	0.523	33.01	-5.82
		2680.0	1.90	1 / 49	25.23	27.13	0.516	33.01	-5.88
	16-QAM	2593.0	1.90	1 / 25	24.52	26.42	0.438	33.01	-6.59
	64-QAM	2593.0	1.90	1 / 25	23.29	25.19	0.330	33.01	-7.82
	256-QAM	2680.0	1.90	1 / 49	20.79	22.69	0.186	33.01	-10.32
30 MHz	π/2 BPSK	2511.0	1.90	1 / 1	25.55	27.45	0.556	33.01	-5.56
		2593.0	1.90	1 / 76	25.33	27.23	0.529	33.01	-5.78
		2675.0	1.90	1 / 76	25.38	27.28	0.534	33.01	-5.73
	QPSK	2511.0	1.90	1 / 1	25.40	27.30	0.537	33.01	-5.71
		2593.0	1.90	1 / 76	25.28	27.18	0.522	33.01	-5.83
		2675.0	1.90	1 / 76	25.41	**27.31**	0.538	33.01	-5.70
	16-QAM	2593.0	1.90	1 / 76	24.67	26.57	0.454	33.01	-6.44
	64-QAM	2593.0	1.90	1 / 76	23.19	25.09	0.323	33.01	-7.92
	256-QAM	2593.0	1.90	1 / 76	20.95	22.85	0.193	33.01	-10.16
40 MHz	π/2 BPSK	2516.0	1.90	1 / 1	25.51	27.41	0.551	33.01	-5.60
		2593.0	1.90	1 / 104	25.32	27.22	0.527	33.01	-5.79
		2670.0	1.90	1 / 104	25.46	27.36	0.544	33.01	-5.65
	QPSK	2516.0	1.90	1 / 1	25.34	27.24	0.530	33.01	-5.77
		2593.0	1.90	1 / 104	25.31	27.21	0.527	33.01	-5.80
		2670.0	1.90	1 / 104	25.46	27.36	0.545	33.01	-5.65
	16-QAM	2670.0	1.90	1 / 104	24.71	26.61	0.458	33.01	-6.40
	64-QAM	2593.0	1.90	1 / 104	23.19	25.09	0.323	33.01	-7.92
	256-QAM	2670.0	1.90	1 / 104	20.95	22.85	0.193	33.01	-10.16
50 MHz	π/2 BPSK	2521.0	1.90	1 / 66	25.52	27.42	0.552	33.01	-5.59
		2593.0	1.90	1 / 131	25.27	27.17	0.521	33.01	-5.84
		2665.0	1.90	1 / 131	25.27	27.17	0.521	33.01	-5.84
	QPSK	2521.0	1.90	1 / 66	25.70	27.60	0.575	33.01	-5.41
		2593.0	1.90	1 / 131	25.20	27.10	0.513	33.01	-5.91
		2665.0	1.90	1 / 131	25.27	27.17	0.521	33.01	-5.84
	16-QAM	2593.0	1.90	1 / 131	24.58	26.48	0.445	33.01	-6.53
	64-QAM	2665.0	1.90	1 / 131	22.97	24.87	0.307	33.01	-8.14
	256-QAM	2665.0	1.90	1 / 131	20.81	22.71	0.187	33.01	-10.30
60 MHz	π/2 BPSK	2526.0	1.90	1 / 81	25.54	27.44	0.555	33.01	-5.57
		2593.0	1.90	1 / 1	25.33	27.23	0.529	33.01	-5.78
		2660.0	1.90	1 / 1	25.46	**27.36**	0.544	33.01	-5.65
	QPSK	2526.0	1.90	1 / 81	25.61	27.51	0.564	33.01	-5.50
		2593.0	1.90	1 / 1	25.39	**27.29**	0.535	33.01	-5.72
		2660.0	1.90	1 / 1	25.31	27.21	0.526	33.01	-5.80
	16-QAM	2593.0	1.90	1 / 81	24.70	26.60	0.457	33.01	-6.42
	64-QAM	2593.0	1.90	1 / 1	23.37	25.27	0.336	33.01	-7.74
	256-QAM	2593.0	1.90	1 / 1	20.79	22.69	0.186	33.01	-10.32
70 MHz	π/2 BPSK	2531.0	1.90	1 / 1	25.60	27.50	0.562	33.01	-5.51
		2593.0	1.90	1 / 1	25.45	**27.35**	0.543	33.01	-5.66
		2660.0	1.90	1 / 1	25.33	27.23	0.528	33.01	-5.78
	QPSK	2531.0	1.90	1 / 1	25.70	27.60	0.575	33.01	-5.41
		2593.0	1.90	1 / 1	25.32	27.22	0.527	33.01	-5.79
		2660.0	1.90	1 / 1	25.25	27.15	0.519	33.01	-5.86
	16-QAM	2660.0	1.90	1 / 1	24.71	26.61	0.458	33.01	-6.40
	64-QAM	2593.0	1.90	1 / 1	23.10	25.00	0.316	33.01	-8.01
	256-QAM	2593.0	1.90	1 / 1	20.98	22.88	0.194	33.01	-10.13
80 MHz	π/2 BPSK	2536.0	1.90	1 / 215	25.49	27.39	0.548	33.01	-5.62
		2593.0	1.90	1 / 1	25.26	27.16	0.520	33.01	-5.85
		2650.0	1.90	1 / 1	25.27	27.17	0.521	33.01	-5.84
	QPSK	2536.0	1.90	1 / 1	25.52	27.42	0.552	33.01	-5.59
		2593.0	1.90	1 / 1	25.31	27.21	0.526	33.01	-5.80
		2650.0	1.90	1 / 1	25.26	27.16	0.520	33.01	-5.85
	16-QAM	2593.0	1.90	1 / 1	24.63	26.53	0.449	33.01	-6.48
	64-QAM	2593.0	1.90	1 / 108	23.71	25.61	0.364	33.01	-7.40
	256-QAM	2593.0	1.90	1 / 215	20.88	22.78	0.190	33.01	-10.23
90 MHz	π/2 BPSK	2541.0	1.90	1 / 122	25.59	27.49	0.561	33.01	-5.52
		2593.0	1.90	1 / 1	25.33	**27.23**	0.528	33.01	-5.78
		2645.0	1.90	1 / 1	25.20	27.10	0.513	33.01	-5.91
	QPSK	2541.0	1.90	1 / 243	25.35	27.25	0.531	33.01	-5.76
		2593.0	1.90	1 / 1	25.44	**27.34**	0.542	33.01	-5.67
		2645.0	1.90	1 / 1	25.25	27.15	0.519	33.01	-5.86
	16-QAM	2593.0	1.90	1 / 1	24.57	26.47	0.443	33.01	-6.54
	64-QAM	2593.0	1.90	1 / 1	23.40	25.30	0.339	33.01	-7.71
	256-QAM	2593.0	1.90	1 / 1	20.80	22.70	0.186	33.01	-10.31
100 MHz	π/2 BPSK	2546.0	1.90	1 / 271	25.62	27.52	0.565	33.01	-5.49
		2593.0	1.90	1 / 1	25.46	**27.36**	0.545	33.01	-5.65
		2640.0	1.90	1 / 1	25.27	27.17	0.521	33.01	-5.84
	QPSK	2546.0	1.90	1 / 271	25.41	27.31	0.538	33.01	-5.70
		2593.0	1.90	1 / 1	25.26	27.16	0.520	33.01	-5.85
		2640.0	1.90	1 / 136	25.32	**27.22**	0.527	33.01	-5.79
	16-QAM	2593.0	1.90	1 / 136	24.68	26.58	0.455	33.01	-6.43
	64-QAM	2593.0	1.90	1 / 136	22.94	24.84	0.305	33.01	-8.17
	256-QAM	2593.0	1.90	1 / 136	20.90	22.80	0.191	33.01	-10.21

Table 7-32. Antenna 3a EIRP Data (NR Band n41(PC3))

ULCA LTE Band 7

Power State	Band	Bandwidth (PCC + SCC)	PCC					SCC					ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset						
Max	LTE B7	20MHz + 20MHz	QPSK	20850	2510.0	1	99	QPSK	21048	2529.8	1	0	24.64	2.60	**27.24**	0.530	33.01	-5.77
				21100	2535.0	1	99		21298	2554.8	1	0	24.44	2.60	27.04	0.506	33.01	-5.97
				21350	2560.0	1	0		21152	2540.2	1	99	24.25	2.60	26.85	0.484	33.01	-6.16
			QPSK	20850	2510	100	0	QPSK	21048	2529.8	100	0	23.67	2.60	26.27	0.424	33.01	-6.74
			16-QAM	20850	2510	100	0	16-QAM	21048	2529.8	100	0	23.02	2.60	**25.62**	0.365	33.01	-7.39
			64-QAM	20850	2510	100	0	64-QAM	21048	2529.8	100	0	22.59	2.60	**25.19**	0.330	33.01	-7.82
			256-QAM	20850	2510	100	0	256-QAM	21048	2529.8	100	0	21.95	2.60	**24.55**	0.285	33.01	-8.46

Table 7-33. Antenna 3a EIRP Data (ULCA LTE Band 7)

ULCA LTE Band 41(PC2)

Power State	Band	Bandwidth (PCC + SCC)	PCC					SCC					ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset						
Max	LTE B41 (PC2)	20MHz + 20MHz	QPSK	39750	2506.0	1	99	QPSK	39948	2525.8	1	0	26.27	1.90	28.17	0.656	33.01	-4.84
				40620	2593.0	1	99		40818	2612.8	1	0	26.47	1.90	**28.37**	0.687	33.01	-4.64
				41490	2680.0	1	0		41292	2660.2	1	99	26.38	1.90	28.28	0.673	33.01	-4.73
			QPSK	40620	2593	100	0	QPSK	40818	2612.8	100	0	24.97	1.90	26.87	0.486	33.01	-6.14
			16-QAM	40620	2593	100	0	16-QAM	40818	2612.8	100	0	24.10	1.90	**26.00**	0.398	33.01	-7.01
			64-QAM	40620	2593	100	0	64-QAM	40818	2612.8	100	0	23.12	1.90	**25.02**	0.318	33.01	-7.99
			256-QAM	40620	2593	100	0	256-QAM	40818	2612.8	100	0	21.07	1.90	**22.97**	0.198	33.01	-10.04

Table 7-34. Antenna 3a EIRP Data (ULCA LTE Band 41 (PC2))

ULCA LTE Band 41(PC3)

Power State	Band	Bandwidth (PCC + SCC)	PCC					SCC					ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset						
Max	LTE B41 (PC3)	20MHz + 20MHz	QPSK	39750	2506.0	1	99	QPSK	39948	2525.8	1	0	25.29	1.90	**27.19**	0.524	33.01	-5.82
				40620	2593.0	1	99		40818	2612.8	1	0	25.06	1.90	26.96	0.497	33.01	-6.05
				41490	2680.0	1	0		41292	2660.2	1	99	25.05	1.90	26.95	0.495	33.01	-6.06
			QPSK	39750	2506	100	0	QPSK	39948	2525.8	100	0	22.97	1.90	24.87	0.307	33.01	-8.14
			16-QAM	39750	2506	100	0	16-QAM	39948	2525.8	100	0	22.08	1.90	**23.98**	0.250	33.01	-9.03
			64-QAM	39750	2506	100	0	64-QAM	39948	2525.8	100	0	20.95	1.90	**22.85**	0.193	33.01	-10.16
			256-QAM	39750	2506	100	0	256-QAM	39948	2525.8	100	0	20.08	1.90	**21.98**	0.158	33.01	-11.03

Table 7-35. Antenna 3a EIRP Data (ULCA LTE Band 41 (PC3))

7.6.4 Antenna 1b - EIRP

LTE-Band 30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2307.5	-2.80	1 / 0	23.20	**20.40**	0.110	23.98	-3.58
		2310.0	-2.80	1 / 0	23.20	**20.40**	0.110	23.98	-3.58
		2312.5	-2.80	1 / 0	23.07	20.27	0.106	23.98	-3.71
	16-QAM	2307.5	-2.80	1 / 0	22.57	19.77	0.095	23.98	-4.21
	64-QAM	2310.0	-2.80	1 / 0	21.47	18.67	0.074	23.98	-5.31
	256-QAM	2307.5	-2.80	1 / 0	18.35	15.55	0.036	23.98	-8.43
10 MHz	QPSK	2310.0	-2.80	1 / 25	23.03	**20.23**	0.105	23.98	-3.75
	16-QAM	2310.0	-2.80	1 / 25	22.42	19.62	0.092	23.98	-4.36
	64-QAM	2310.0	-2.80	1 / 0	21.27	18.47	0.070	23.98	-5.51
	256-QAM	2310.0	-2.80	1 / 0	18.32	15.52	0.036	23.98	-8.46

Table 7-36. Antenna 1b EIRP Data (LTE Band 30)

LTE-Band 7

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2502.5	-2.50	1 / 0	23.18	**20.68**	0.117	33.01	-12.33
		2535.0	-2.50	1 / 12	23.02	20.52	0.113	33.01	-12.49
		2567.5	-2.50	1 / 0	23.14	20.64	0.116	33.01	-12.37
	16-QAM	2502.5	-2.50	1 / 24	22.30	19.80	0.095	33.01	-13.21
	64-QAM	2567.5	-2.50	1 / 24	21.26	18.76	0.075	33.01	-14.25
	256-QAM	2502.5	-2.50	1 / 24	18.40	15.90	0.039	33.01	-17.11
10 MHz	QPSK	2505.0	-2.50	1 / 25	22.97	20.47	0.111	33.01	-12.54
		2535.0	-2.50	1 / 49	23.19	**20.69**	0.117	33.01	-12.32
		2565.0	-2.50	1 / 49	22.98	20.48	0.112	33.01	-12.53
	16-QAM	2565.0	-2.50	1 / 49	22.19	19.69	0.093	33.01	-13.32
	64-QAM	2505.0	-2.50	1 / 49	21.15	18.65	0.073	33.01	-14.36
	256-QAM	2565.0	-2.50	1 / 0	18.31	15.81	0.038	33.01	-17.20
15 MHz	QPSK	2507.5	-2.50	1 / 0	22.90	20.40	0.110	33.01	-12.61
		2535.0	-2.50	1 / 74	23.16	20.66	0.116	33.01	-12.35
		2562.5	-2.50	1 / 0	23.18	**20.68**	0.117	33.01	-12.33
	16-QAM	2562.5	-2.50	1 / 0	22.19	19.69	0.093	33.01	-13.32
	64-QAM	2507.5	-2.50	1 / 37	21.15	18.65	0.073	33.01	-14.36
	256-QAM	2507.5	-2.50	1 / 0	18.25	15.75	0.038	33.01	-17.26
20 MHz	QPSK	2510.0	-2.50	1 / 0	22.71	20.21	0.105	33.01	-12.80
		2535.0	-2.50	1 / 0	23.20	**20.70**	0.117	33.01	-12.31
		2560.0	-2.50	1 / 0	22.74	20.24	0.106	33.01	-12.77
	16-QAM	2560.0	-2.50	1 / 50	22.20	19.70	0.093	33.01	-13.31
	64-QAM	2510.0	-2.50	1 / 0	21.17	18.67	0.074	33.01	-14.34
	256-QAM	2535.0	-2.50	1 / 99	18.11	15.61	0.036	33.01	-17.40

Table 7-37. Antenna 1b EIRP Data (LTE Band 7)

LTE-Band 41 (PC2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2498.5	-3.60	1 / 0	27.20	**23.60**	0.229	33.01	-9.41
		2593.0	-3.60	1 / 0	27.12	23.52	0.225	33.01	-9.49
		2687.5	-3.60	1 / 0	26.94	23.34	0.216	33.01	-9.67
	16-QAM	2498.5	-3.60	1 / 0	26.17	22.57	0.181	33.01	-10.44
	64-QAM	2498.5	-3.60	1 / 12	25.64	22.04	0.160	33.01	-10.97
	256-QAM	2498.5	-3.60	1 / 0	25.09	21.49	0.141	33.01	-11.52
10 MHz	QPSK	2501.0	-3.60	1 / 0	27.18	**23.58**	0.228	33.01	-9.43
		2593.0	-3.60	1 / 0	27.06	23.46	0.222	33.01	-9.55
		2685.0	-3.60	1 / 0	27.01	23.41	0.219	33.01	-9.60
	16-QAM	2501.0	-3.60	1 / 0	26.17	22.57	0.181	33.01	-10.44
	64-QAM	2501.0	-3.60	1 / 0	25.68	22.08	0.161	33.01	-10.93
	256-QAM	2593.0	-3.60	1 / 25	25.09	21.49	0.141	33.01	-11.52
15 MHz	QPSK	2503.5	-3.60	1 / 0	27.20	**23.60**	0.229	33.01	-9.41
		2593.0	-3.60	1 / 0	27.11	23.51	0.224	33.01	-9.50
		2682.5	-3.60	1 / 74	26.86	23.26	0.212	33.01	-9.75
	16-QAM	2682.5	-3.60	1 / 0	26.17	22.57	0.181	33.01	-10.44
	64-QAM	2503.5	-3.60	1 / 37	25.56	21.96	0.157	33.01	-11.05
	256-QAM	2503.5	-3.60	1 / 0	25.09	21.49	0.141	33.01	-11.52
20 MHz	QPSK	2506.0	-3.60	1 / 0	27.20	**23.60**	0.229	33.01	-9.41
		2593.0	-3.60	1 / 99	27.16	23.56	0.227	33.01	-9.45
		2680.0	-3.60	1 / 99	27.17	23.57	0.228	33.01	-9.44
	16-QAM	2506.0	-3.60	1 / 0	26.17	22.57	0.181	33.01	-10.44
	64-QAM	2506.0	-3.60	1 / 0	25.72	22.12	0.163	33.01	-10.89
	256-QAM	2506.0	-3.60	1 / 0	25.09	21.49	0.141	33.01	-11.52

Table 7-38. Antenna 1b EIRP Data (LTE Band 41(PC2))

LTE-Band 41 (PC3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2498.5	-3.60	1 / 0	25.70	**22.10**	0.162	33.01	-10.91
		2593.0	-3.60	1 / 0	25.68	22.08	0.161	33.01	-10.93
		2687.5	-3.60	1 / 0	25.44	21.84	0.153	33.01	-11.17
	16-QAM	2687.5	-3.60	1 / 0	24.59	20.99	0.126	33.01	-12.02
	64-QAM	2498.5	-3.60	1 / 12	24.21	20.61	0.115	33.01	-12.40
	256-QAM	2498.5	-3.60	1 / 0	22.59	18.99	0.079	33.01	-14.02
10 MHz	QPSK	2501.0	-3.60	1 / 49	25.70	**22.10**	0.162	33.01	-10.91
		2593.0	-3.60	1 / 0	25.64	22.04	0.160	33.01	-10.97
		2685.0	-3.60	1 / 0	25.44	21.84	0.153	33.01	-11.17
	16-QAM	2593.0	-3.60	1 / 49	24.57	20.97	0.125	33.01	-12.04
	64-QAM	2501.0	-3.60	1 / 49	24.15	20.55	0.114	33.01	-12.46
		2593.0	-3.60	1 / 0	24.15	20.55	0.114	33.01	-12.46
	256-QAM	2501.0	-3.60	1 / 25	22.57	18.97	0.079	33.01	-14.04
15 MHz	QPSK	2503.5	-3.60	1 / 0	25.70	**22.10**	0.162	33.01	-10.91
		2593.0	-3.60	1 / 0	25.66	22.06	0.161	33.01	-10.95
		2682.5	-3.60	1 / 0	25.58	21.98	0.158	33.01	-11.03
	16-QAM	2682.5	-3.60	1 / 0	24.64	21.04	0.127	33.01	-11.97
	64-QAM	2593.0	-3.60	1 / 74	24.05	20.45	0.111	33.01	-12.56
	256-QAM	2682.5	-3.60	1 / 0	22.56	18.96	0.079	33.01	-14.05
20 MHz	QPSK	2506.0	-3.60	1 / 0	25.70	**22.10**	0.162	33.01	-10.91
		2593.0	-3.60	1 / 99	25.63	22.03	0.160	33.01	-10.98
		2680.0	-3.60	1 / 0	25.63	22.03	0.160	33.01	-10.98
	16-QAM	2593.0	-3.60	1 / 0	24.45	20.85	0.122	33.01	-12.16
	64-QAM	2680.0	-3.60	1 / 99	24.27	20.67	0.117	33.01	-12.34
	256-QAM	2593.0	-3.60	1 / 0	22.54	18.94	0.078	33.01	-14.07

Table 7-39. Antenna 1b EIRP Data (LTE Band 41(PC3))

NR Band n30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	π/2 BPSK	2307.5	-2.80	1 / 1	23.15	**20.35**	0.108	23.98	-3.63
		2310.0	-2.80	1 / 23	23.19	20.39	0.110	23.98	-3.58
		2312.5	-2.80	1 / 1	23.19	20.39	0.109	23.98	-3.59
	QPSK	2307.5	-2.80	1 / 1	23.10	20.30	0.107	23.98	-3.68
		2310.0	-2.80	1 / 12	23.19	20.39	0.109	23.98	-3.59
		2312.5	-2.80	1 / 12	23.20	**20.40**	0.110	23.98	-3.58
	16-QAM	2307.5	-2.80	1 / 12	22.43	19.63	0.092	23.98	-4.34
	64-QAM	2310.0	-2.80	1 / 23	20.67	17.87	0.061	23.98	-6.11
	256-QAM	2312.5	-2.80	1 / 1	18.64	15.84	0.038	23.98	-8.14
10 MHz	π/2 BPSK	2310.0	-2.80	1 / 1	23.18	20.38	0.109	23.98	-3.60
	QPSK	2310.0	-2.80	1 / 25	23.20	**20.40**	0.110	23.98	-3.58
	16-QAM	2310.0	-2.80	1 / 25	22.22	19.42	0.088	23.98	-4.56
	64-QAM	2310.0	-2.80	1 / 25	20.72	17.92	0.062	23.98	-6.06
	256-QAM	2310.0	-2.80	1 / 50	18.50	15.70	0.037	23.98	-8.28

Table 7-40. Antenna 1b EIRP Data (NR Band n30)

NR Band n7

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
5 MHz	π/2 BPSK	2502.5	-2.50	1 / 23	22.94	**20.44**	0.111	33.01	-12.57
		2535.0	-2.50	1 / 23	23.11	20.61	0.115	33.01	-12.40
		2567.5	-2.50	1 / 23	23.10	20.60	0.115	33.01	-12.41
	QPSK	2502.5	-2.50	1 / 12	23.03	20.53	0.113	33.01	-12.48
		2535.0	-2.50	1 / 23	23.19	**20.69**	0.117	33.01	-12.32
		2567.5	-2.50	1 / 12	23.13	20.63	0.116	33.01	-12.38
	16-QAM	2535.0	-2.50	1 / 12	22.14	19.64	0.092	33.01	-13.37
	64-QAM	2535.0	-2.50	1 / 1	20.66	18.16	0.065	33.01	-14.85
	256-QAM	2535.0	-2.50	1 / 12	18.51	16.01	0.040	33.01	-17.00
10 MHz	π/2 BPSK	2505.0	-2.50	1 / 50	22.95	20.45	0.111	33.01	-12.56
		2535.0	-2.50	1 / 50	23.14	20.64	0.116	33.01	-12.37
		2565.0	-2.50	1 / 50	23.05	20.55	0.113	33.01	-12.46
	QPSK	2505.0	-2.50	1 / 1	23.00	20.50	0.112	33.01	-12.51
		2535.0	-2.50	1 / 50	23.19	**20.69**	0.117	33.01	-12.32
		2565.0	-2.50	1 / 50	23.13	20.63	0.116	33.01	-12.38
	16-QAM	2565.0	-2.50	1 / 50	22.24	19.74	0.094	33.01	-13.27
	64-QAM	2565.0	-2.50	1 / 50	20.78	18.28	0.067	33.01	-14.73
	256-QAM	2535.0	-2.50	1 / 25	18.60	16.10	0.041	33.01	-16.91
15 MHz	π/2 BPSK	2507.5	-2.50	1 / 1	23.04	20.54	0.113	33.01	-12.47
		2535.0	-2.50	1 / 73	23.15	20.65	0.116	33.01	-12.36
		2562.5	-2.50	1 / 1	23.14	20.64	0.116	33.01	-12.37
	QPSK	2507.5	-2.50	1 / 73	23.05	20.55	0.114	33.01	-12.46
		2535.0	-2.50	1 / 73	23.19	**20.69**	0.117	33.01	-12.32
		2562.5	-2.50	1 / 73	23.17	20.67	0.117	33.01	-12.34
	16-QAM	2562.5	-2.50	1 / 73	22.39	19.89	0.098	33.01	-13.12
	64-QAM	2507.5	-2.50	1 / 73	20.78	18.28	0.067	33.01	-14.73
	256-QAM	2562.5	-2.50	1 / 73	18.69	16.19	0.042	33.01	-16.82
20 MHz	π/2 BPSK	2510.0	-2.50	1 / 98	23.08	20.58	0.114	33.01	-12.43
		2535.0	-2.50	1 / 98	23.16	20.66	0.116	33.01	-12.35
		2560.0	-2.50	1 / 98	23.19	20.69	0.117	33.01	-12.32
	QPSK	2510.0	-2.50	1 / 1	23.07	20.57	0.114	33.01	-12.44
		2535.0	-2.50	1 / 50	23.19	20.69	0.117	33.01	-12.32
		2560.0	-2.50	1 / 98	23.19	**20.69**	0.117	33.01	-12.32
	16-QAM	2535.0	-2.50	1 / 50	22.32	19.82	0.096	33.01	-13.19
	64-QAM	2535.0	-2.50	1 / 50	20.84	18.34	0.068	33.01	-14.67
	256-QAM	2535.0	-2.50	1 / 50	18.73	16.23	0.042	33.01	-16.78
25 MHz	π/2 BPSK	2512.5	-2.50	1 / 131	23.01	20.51	0.112	33.01	-12.50
		2535.0	-2.50	1 / 1	23.14	20.64	0.116	33.01	-12.37
		2557.5	-2.50	1 / 1	23.12	20.62	0.115	33.01	-12.39
	QPSK	2512.5	-2.50	1 / 131	23.12	20.62	0.115	33.01	-12.39
		2535.0	-2.50	1 / 66	23.10	20.60	0.115	33.01	-12.41
		2557.5	-2.50	1 / 131	23.19	**20.69**	0.117	33.01	-12.32
	16-QAM	2512.5	-2.50	1 / 131	22.51	20.01	0.100	33.01	-13.00
	64-QAM	2557.5	-2.50	1 / 1	20.66	18.16	0.065	33.01	-14.85
	256-QAM	2557.5	-2.50	1 / 1	18.67	16.17	0.041	33.01	-16.84
30 MHz	π/2 BPSK	2515.0	-2.50	1 / 158	23.10	20.60	0.115	33.01	-12.41
		2535.0	-2.50	1 / 80	23.03	20.53	0.113	33.01	-12.48
		2555.0	-2.50	1 / 158	23.06	20.56	0.114	33.01	-12.45
	QPSK	2515.0	-2.50	1 / 158	23.08	20.58	0.114	33.01	-12.43
		2535.0	-2.50	1 / 158	23.19	**20.69**	0.117	33.01	-12.32
		2555.0	-2.50	1 / 158	23.15	20.65	0.116	33.01	-12.36
	16-QAM	2555.0	-2.50	1 / 80	22.17	19.67	0.093	33.01	-13.34
	64-QAM	2515.0	-2.50	1 / 158	20.73	18.23	0.067	33.01	-14.78
	256-QAM	2555.0	-2.50	1 / 1	18.62	16.12	0.041	33.01	-16.89
35 MHz	π/2 BPSK	2517.5	-2.50	1 / 186	23.09	**20.59**	0.115	33.01	-12.42
		2535.0	-2.50	1 / 90	23.02	20.52	0.113	33.01	-12.49
		2552.5	-2.50	1 / 1	22.96	20.46	0.111	33.01	-12.55
	QPSK	2517.5	-2.50	1 / 186	23.02	20.52	0.113	33.01	-12.49
		2535.0	-2.50	1 / 90	23.02	20.52	0.113	33.01	-12.49
		2552.5	-2.50	1 / 186	23.00	20.50	0.112	33.01	-12.51
	16-QAM	2517.5	-2.50	1 / 186	22.09	19.59	0.091	33.01	-13.42
	64-QAM	2535.0	-2.50	1 / 186	20.63	18.13	0.065	33.01	-14.88
	256-QAM	2517.5	-2.50	1 / 186	18.55	16.05	0.040	33.01	-16.96
40 MHz	π/2 BPSK	2520.0	-2.50	1 / 214	23.09	20.59	0.114	33.01	-12.42
		2535.0	-2.50	1 / 108	23.09	20.59	0.115	33.01	-12.42
		2550.0	-2.50	1 / 1	23.08	20.58	0.114	33.01	-12.43
	QPSK	2520.0	-2.50	1 / 214	23.13	20.63	0.116	33.01	-12.38
		2535.0	-2.50	1 / 108	23.05	20.55	0.113	33.01	-12.46
		2550.0	-2.50	1 / 214	23.19	**20.69**	0.117	33.01	-12.32
	16-QAM	2535.0	-2.50	1 / 108	22.15	19.65	0.092	33.01	-13.36
	64-QAM	2520.0	-2.50	1 / 214	20.66	18.16	0.065	33.01	-14.85
	256-QAM	2535.0	-2.50	1 / 108	18.62	16.12	0.041	33.01	-16.89

Table 7-41. Antenna 1b EIRP Data (NR Band n7)

NR Band n41(PC2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
10 MHz	π/2 BPSK	2501.0	-3.60	1 / 1	26.92	**23.32**	0.215	33.01	-9.69
		2593.0	-3.60	1 / 11	27.16	23.56	0.227	33.01	-9.45
		2685.0	-3.60	1 / 11	27.20	**23.60**	0.229	33.01	-9.41
	QPSK	2501.0	-3.60	1 / 22	27.04	23.44	0.221	33.01	-9.57
		2593.0	-3.60	1 / 11	27.13	23.53	0.226	33.01	-9.48
		2685.0	-3.60	1 / 1	27.13	**23.53**	0.225	33.01	-9.48
	16-QAM	2593.0	-3.60	1 / 11	26.32	22.72	0.187	33.01	-10.29
	64-QAM	2501.0	-3.60	1 / 11	24.63	21.03	0.127	33.01	-11.98
	256-QAM	2685.0	-3.60	1 / 11	23.23	19.63	0.092	33.01	-13.38
15 MHz	π/2 BPSK	2503.5	-3.60	1 / 36	27.17	23.57	0.228	33.01	-9.44
		2593.0	-3.60	1 / 19	27.12	23.52	0.225	33.01	-9.49
		2682.5	-3.60	1 / 19	27.15	**23.55**	0.227	33.01	-9.46
	QPSK	2503.5	-3.60	1 / 19	27.17	23.57	0.228	33.01	-9.44
		2593.0	-3.60	1 / 19	27.13	23.53	0.226	33.01	-9.48
		2682.5	-3.60	1 / 19	27.20	**23.60**	0.229	33.01	-9.41
	16-QAM	2682.5	-3.60	1 / 19	26.09	22.49	0.178	33.01	-10.52
	64-QAM	2503.5	-3.60	1 / 19	24.60	21.00	0.126	33.01	-12.01
	256-QAM	2503.5	-3.60	1 / 19	22.54	18.94	0.078	33.01	-14.07
20 MHz	π/2 BPSK	2506.0	-3.60	1 / 25	27.19	23.59	0.229	33.01	-9.42
		2593.0	-3.60	1 / 25	27.18	**23.58**	0.228	33.01	-9.43
		2680.0	-3.60	1 / 25	26.94	23.34	0.216	33.01	-9.67
	QPSK	2506.0	-3.60	1 / 49	27.20	23.60	0.229	33.01	-9.41
		2593.0	-3.60	1 / 1	26.90	23.30	0.214	33.01	-9.71
		2680.0	-3.60	1 / 25	26.93	23.33	0.215	33.01	-9.68
	16-QAM	2593.0	-3.60	1 / 25	25.97	22.37	0.173	33.01	-10.64
	64-QAM	2506.0	-3.60	1 / 25	24.58	20.98	0.125	33.01	-12.03
	256-QAM	2680.0	-3.60	1 / 25	22.33	18.73	0.075	33.01	-14.29
30 MHz	π/2 BPSK	2511.0	-3.60	1 / 76	27.13	23.53	0.225	33.01	-9.48
		2593.0	-3.60	1 / 39	26.91	23.31	0.214	33.01	-9.70
		2675.0	-3.60	1 / 39	26.92	23.32	0.215	33.01	-9.69
	QPSK	2511.0	-3.60	1 / 39	27.16	23.56	0.227	33.01	-9.45
		2593.0	-3.60	1 / 39	26.91	23.31	0.214	33.01	-9.70
		2675.0	-3.60	1 / 39	26.99	23.39	0.218	33.01	-9.62
	16-QAM	2675.0	-3.60	1 / 39	26.06	22.46	0.176	33.01	-10.55
	64-QAM	2593.0	-3.60	1 / 39	24.72	21.12	0.129	33.01	-11.89
	256-QAM	2593.0	-3.60	1 / 39	22.46	18.86	0.077	33.01	-14.15
40 MHz	π/2 BPSK	2516.0	-3.60	1 / 53	27.16	23.56	0.227	33.01	-9.45
		2593.0	-3.60	1 / 53	26.88	23.28	0.213	33.01	-9.73
		2670.0	-3.60	1 / 53	26.96	23.36	0.217	33.01	-9.65
	QPSK	2516.0	-3.60	1 / 104	27.20	23.60	0.229	33.01	-9.41
		2593.0	-3.60	1 / 53	26.80	23.20	0.209	33.01	-9.81
		2670.0	-3.60	1 / 53	26.94	23.34	0.216	33.01	-9.67
	16-QAM	2593.0	-3.60	1 / 53	26.13	22.53	0.179	33.01	-10.48
	64-QAM	2516.0	-3.60	1 / 53	24.55	20.95	0.124	33.01	-12.06
	256-QAM	2670.0	-3.60	1 / 53	22.50	18.90	0.078	33.01	-14.11
50 MHz	π/2 BPSK	2521.0	-3.60	1 / 1	27.15	23.55	0.226	33.01	-9.46
		2593.0	-3.60	1 / 66	27.06	**23.46**	0.222	33.01	-9.55
		2665.0	-3.60	1 / 66	26.94	23.34	0.216	33.01	-9.67
	QPSK	2521.0	-3.60	1 / 1	27.20	23.60	0.229	33.01	-9.41
		2593.0	-3.60	1 / 66	26.89	23.29	0.213	33.01	-9.72
		2665.0	-3.60	1 / 131	27.11	**23.51**	0.224	33.01	-9.50
	16-QAM	2593.0	-3.60	1 / 66	26.19	22.59	0.181	33.01	-10.42
	64-QAM	2593.0	-3.60	1 / 66	24.53	20.93	0.124	33.01	-12.08
	256-QAM	2521.0	-3.60	1 / 66	22.31	18.71	0.074	33.01	-14.30
60 MHz	π/2 BPSK	2526.0	-3.60	1 / 160	27.17	23.57	0.228	33.01	-9.44
		2593.0	-3.60	1 / 160	27.17	23.57	0.228	33.01	-9.44
		2660.0	-3.60	1 / 1	26.98	23.38	0.218	33.01	-9.63
	QPSK	2526.0	-3.60	1 / 1	27.05	23.45	0.221	33.01	-9.56
		2593.0	-3.60	1 / 81	26.91	23.31	0.214	33.01	-9.70
		2660.0	-3.60	1 / 1	26.82	23.22	0.210	33.01	-9.79
	16-QAM	2593.0	-3.60	1 / 81	26.48	22.88	0.194	33.01	-10.13
	64-QAM	2593.0	-3.60	1 / 81	24.86	21.26	0.134	33.01	-11.75
	256-QAM	2593.0	-3.60	1 / 1	22.32	18.72	0.074	33.01	-14.29
70 MHz	π/2 BPSK	2531.0	-3.60	1 / 1	27.17	23.57	0.228	33.01	-9.44
		2593.0	-3.60	1 / 1	26.88	23.28	0.213	33.01	-9.73
		2660.0	-3.60	1 / 81	26.98	**23.38**	0.218	33.01	-9.63
	QPSK	2531.0	-3.60	1 / 160	27.14	23.54	0.226	33.01	-9.47
		2593.0	-3.60	1 / 81	26.88	23.28	0.213	33.01	-9.73
		2660.0	-3.60	1 / 81	27.10	**23.50**	0.224	33.01	-9.51
	16-QAM	2593.0	-3.60	1 / 1	25.94	22.34	0.171	33.01	-10.67
	64-QAM	2593.0	-3.60	1 / 1	24.53	20.93	0.124	33.01	-12.08
	256-QAM	2593.0	-3.60	1 / 1	22.49	18.89	0.077	33.01	-14.12
80 MHz	π/2 BPSK	2536.0	-3.60	1 / 215	27.11	23.51	0.224	33.01	-9.50
		2593.0	-3.60	1 / 1	27.13	**23.53**	0.225	33.01	-9.48
		2650.0	-3.60	1 / 1	26.94	23.34	0.216	33.01	-9.67
	QPSK	2536.0	-3.60	1 / 1	27.18	23.58	0.228	33.01	-9.43
		2593.0	-3.60	1 / 1	26.84	23.24	0.211	33.01	-9.77
		2650.0	-3.60	1 / 1	26.90	**23.30**	0.214	33.01	-9.71
	16-QAM	2593.0	-3.60	1 / 108	25.89	22.29	0.170	33.01	-10.72
	64-QAM	2593.0	-3.60	1 / 1	24.45	20.85	0.122	33.01	-12.16
	256-QAM	2593.0	-3.60	1 / 1	22.52	18.92	0.078	33.01	-14.09
90 MHz	π/2 BPSK	2541.0	-3.60	1 / 243	27.17	23.57	0.228	33.01	-9.44
		2593.0	-3.60	1 / 1	27.20	**23.60**	0.229	33.01	-9.41
		2645.0	-3.60	1 / 1	26.93	23.33	0.215	33.01	-9.69
	QPSK	2541.0	-3.60	1 / 243	27.05	23.45	0.221	33.01	-9.56
		2593.0	-3.60	1 / 1	26.99	23.39	0.218	33.01	-9.62
		2645.0	-3.60	1 / 1	26.90	23.30	0.214	33.01	-9.71
	16-QAM	2593.0	-3.60	1 / 122	26.02	22.42	0.175	33.01	-10.59
	64-QAM	2593.0	-3.60	1 / 1	24.55	20.95	0.124	33.01	-12.06
	256-QAM	2593.0	-3.60	1 / 1	22.57	18.97	0.079	33.01	-14.04
100 MHz	π/2 BPSK	2546.0	-3.60	1 / 1	26.98	**23.38**	0.218	33.01	-9.63
		2593.0	-3.60	1 / 1	26.85	23.25	0.211	33.01	-9.76
		2640.0	-3.60	1 / 1	26.88	23.28	0.213	33.01	-9.73
	QPSK	2546.0	-3.60	1 / 1	27.14	23.54	0.226	33.01	-9.47
		2593.0	-3.60	1 / 1	26.90	23.30	0.214	33.01	-9.71
		2640.0	-3.60	1 / 1	26.84	23.24	0.211	33.01	-9.77
	16-QAM	2593.0	-3.60	1 / 136	26.11	22.51	0.178	33.01	-10.50
	64-QAM	2593.0	-3.60	1 / 1	24.56	20.96	0.125	33.01	-12.05
	256-QAM	2546.0	-3.60	1 / 1	22.34	18.74	0.075	33.01	-14.27

Table 7-42. Antenna 1b EIRP Data (NR Band n41(PC2))

NR Band n41(PC3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
10 MHz	π/2 BPSK	2501.0	-3.60	1 / 11	25.47	**21.87**	0.154	33.01	-11.14
		2593.0	-3.60	1 / 11	25.47	**21.87**	0.154	33.01	-11.15
		2685.0	-3.60	1 / 11	25.26	21.66	0.147	33.01	-11.35
	QPSK	2501.0	-3.60	1 / 11	25.51	21.91	0.155	33.01	-11.10
		2593.0	-3.60	1 / 1	25.48	21.88	0.154	33.01	-11.13
		2685.0	-3.60	1 / 11	25.35	21.75	0.150	33.01	-11.26
	16-QAM	2593.0	-3.60	1 / 1	24.88	21.28	0.134	33.01	-11.74
	64-QAM	2501.0	-3.60	1 / 22	23.37	19.77	0.095	33.01	-13.24
	256-QAM	2501.0	-3.60	1 / 11	21.15	17.55	0.057	33.01	-15.46
15 MHz	π/2 BPSK	2503.5	-3.60	1 / 36	25.47	21.87	0.154	33.01	-11.14
		2593.0	-3.60	1 / 1	25.64	**22.04**	0.160	33.01	-10.97
		2682.5	-3.60	1 / 36	25.43	21.83	0.152	33.01	-11.18
	QPSK	2503.5	-3.60	1 / 36	25.51	21.91	0.155	33.01	-11.10
		2593.0	-3.60	1 / 36	25.63	**22.03**	0.160	33.01	-10.98
		2682.5	-3.60	1 / 36	25.44	21.84	0.153	33.01	-11.17
	16-QAM	2593.0	-3.60	1 / 36	24.92	21.32	0.135	33.01	-11.69
	64-QAM	2593.0	-3.60	1 / 36	23.28	19.68	0.093	33.01	-13.33
	256-QAM	2503.5	-3.60	1 / 19	21.21	17.61	0.058	33.01	-15.40
20 MHz	π/2 BPSK	2506.0	-3.60	1 / 1	25.70	22.10	0.162	33.01	-10.91
		2593.0	-3.60	1 / 1	25.42	21.82	0.152	33.01	-11.19
		2680.0	-3.60	1 / 1	25.48	21.88	0.154	33.01	-11.13
	QPSK	2506.0	-3.60	1 / 25	25.69	22.09	0.162	33.01	-10.92
		2593.0	-3.60	1 / 1	25.44	21.84	0.153	33.01	-11.17
		2680.0	-3.60	1 / 1	25.47	21.87	0.154	33.01	-11.14
	16-QAM	2593.0	-3.60	1 / 1	24.76	21.16	0.131	33.01	-11.85
	64-QAM	2593.0	-3.60	1 / 1	23.32	19.72	0.094	33.01	-13.29
	256-QAM	2593.0	-3.60	1 / 1	20.90	17.30	0.054	33.01	-15.71
30 MHz	π/2 BPSK	2511.0	-3.60	1 / 39	25.67	22.07	0.161	33.01	-10.94
		2593.0	-3.60	1 / 1	25.52	21.92	0.156	33.01	-11.09
		2675.0	-3.60	1 / 1	25.62	**22.02**	0.159	33.01	-10.99
	QPSK	2511.0	-3.60	1 / 39	25.70	22.10	0.162	33.01	-10.91
		2593.0	-3.60	1 / 1	25.55	21.95	0.157	33.01	-11.06
		2675.0	-3.60	1 / 1	25.63	22.03	0.159	33.01	-10.98
	16-QAM	2675.0	-3.60	1 / 39	24.86	21.26	0.134	33.01	-11.75
	64-QAM	2675.0	-3.60	1 / 39	23.11	19.51	0.089	33.01	-13.50
	256-QAM	2675.0	-3.60	1 / 39	21.11	17.51	0.056	33.01	-15.50
40 MHz	π/2 BPSK	2516.0	-3.60	1 / 1	25.69	22.09	0.162	33.01	-10.92
		2593.0	-3.60	1 / 53	25.41	21.81	0.152	33.01	-11.20
		2670.0	-3.60	1 / 1	25.67	**22.07**	0.161	33.01	-10.94
	QPSK	2516.0	-3.60	1 / 104	25.45	21.85	0.153	33.01	-11.16
		2593.0	-3.60	1 / 1	25.48	21.88	0.154	33.01	-11.13
		2670.0	-3.60	1 / 1	25.68	22.08	0.161	33.01	-10.93
	16-QAM	2670.0	-3.60	1 / 1	24.64	21.04	0.127	33.01	-11.97
	64-QAM	2670.0	-3.60	1 / 1	23.06	19.46	0.088	33.01	-13.56
	256-QAM	2670.0	-3.60	1 / 1	21.16	17.56	0.057	33.01	-15.45
50 MHz	π/2 BPSK	2521.0	-3.60	1 / 131	25.64	22.04	0.160	33.01	-10.97
		2593.0	-3.60	1 / 66	25.38	21.78	0.151	33.01	-11.23
		2665.0	-3.60	1 / 1	25.39	21.79	0.151	33.01	-11.22
	QPSK	2521.0	-3.60	1 / 66	25.47	21.87	0.154	33.01	-11.14
		2593.0	-3.60	1 / 1	25.37	21.77	0.150	33.01	-11.24
		2665.0	-3.60	1 / 1	25.48	**21.88**	0.154	33.01	-11.13
	16-QAM	2665.0	-3.60	1 / 1	24.57	20.97	0.125	33.01	-12.04
	64-QAM	2593.0	-3.60	1 / 1	23.26	19.66	0.093	33.01	-13.35
	256-QAM	2665.0	-3.60	1 / 66	20.86	17.26	0.053	33.01	-15.75
60 MHz	π/2 BPSK	2526.0	-3.60	1 / 160	25.49	21.89	0.155	33.01	-11.12
		2593.0	-3.60	1 / 1	25.44	**21.84**	0.153	33.01	-11.18
		2660.0	-3.60	1 / 1	25.25	21.65	0.146	33.01	-11.36
	QPSK	2526.0	-3.60	1 / 160	25.70	22.10	0.162	33.01	-10.91
		2593.0	-3.60	1 / 1	25.37	21.77	0.150	33.01	-11.24
		2660.0	-3.60	1 / 81	25.29	21.69	0.148	33.01	-11.32
	16-QAM	2593.0	-3.60	1 / 81	24.81	21.21	0.132	33.01	-11.80
	64-QAM	2660.0	-3.60	1 / 1	23.19	19.59	0.091	33.01	-13.42
	256-QAM	2593.0	-3.60	1 / 81	20.97	17.37	0.055	33.01	-15.64
70 MHz	π/2 BPSK	2531.0	-3.60	1 / 1	25.66	22.06	0.161	33.01	-10.95
		2593.0	-3.60	1 / 81	25.32	21.72	0.148	33.01	-11.29
		2660.0	-3.60	1 / 1	25.32	21.72	0.149	33.01	-11.29
	QPSK	2531.0	-3.60	1 / 1	25.59	21.99	0.158	33.01	-11.02
		2593.0	-3.60	1 / 1	25.45	21.85	0.153	33.01	-11.16
		2660.0	-3.60	1 / 1	25.31	21.71	0.148	33.01	-11.30
	16-QAM	2593.0	-3.60	1 / 1	24.64	21.04	0.127	33.01	-11.97
	64-QAM	2593.0	-3.60	1 / 81	23.29	19.69	0.093	33.01	-13.32
	256-QAM	2660.0	-3.60	1 / 1	21.02	17.42	0.055	33.01	-15.59
80 MHz	π/2 BPSK	2536.0	-3.60	1 / 215	25.52	21.92	0.156	33.01	-11.09
		2593.0	-3.60	1 / 1	25.37	21.77	0.150	33.01	-11.24
		2650.0	-3.60	1 / 1	25.31	21.71	0.148	33.01	-11.30
	QPSK	2536.0	-3.60	1 / 1	25.70	22.10	0.162	33.01	-10.91
		2593.0	-3.60	1 / 1	25.47	**21.87**	0.154	33.01	-11.14
		2650.0	-3.60	1 / 1	25.41	21.81	0.152	33.01	-11.20
	16-QAM	2593.0	-3.60	1 / 1	24.55	20.95	0.125	33.01	-12.06
	64-QAM	2593.0	-3.60	1 / 108	23.20	19.60	0.091	33.01	-13.41
	256-QAM	2536.0	-3.60	1 / 1	20.83	17.23	0.053	33.01	-15.78
90 MHz	π/2 BPSK	2541.0	-3.60	1 / 243	25.62	22.02	0.159	33.01	-10.99
		2593.0	-3.60	1 / 122	25.38	21.78	0.151	33.01	-11.23
		2645.0	-3.60	1 / 1	25.28	21.68	0.147	33.01	-11.33
	QPSK	2541.0	-3.60	1 / 1	25.68	22.08	0.161	33.01	-10.93
		2593.0	-3.60	1 / 122	25.37	21.77	0.150	33.01	-11.24
		2645.0	-3.60	1 / 1	25.41	21.81	0.152	33.01	-11.20
	16-QAM	2593.0	-3.60	1 / 122	24.75	21.15	0.130	33.01	-11.86
	64-QAM	2645.0	-3.60	1 / 1	23.08	19.48	0.089	33.01	-13.53
	256-QAM	2541.0	-3.60	1 / 1	20.81	17.21	0.053	33.01	-15.80
100 MHz	π/2 BPSK	2546.0	-3.60	1 / 1	25.64	22.04	0.160	33.01	-10.97
		2593.0	-3.60	1 / 1	25.60	**22.00**	0.159	33.01	-11.01
		2640.0	-3.60	1 / 1	25.42	21.82	0.152	33.01	-11.19
	QPSK	2546.0	-3.60	1 / 1	25.66	22.06	0.161	33.01	-10.95
		2593.0	-3.60	1 / 1	25.52	21.92	0.156	33.01	-11.09
		2640.0	-3.60	1 / 1	25.47	21.87	0.154	33.01	-11.14
	16-QAM	2593.0	-3.60	1 / 1	24.60	21.00	0.126	33.01	-12.01
	64-QAM	2593.0	-3.60	1 / 1	22.99	19.39	0.087	33.01	-13.62
	256-QAM	2640.0	-3.60	1 / 271	20.78	**17.18**	0.052	33.01	-15.83

Table 7-43. Antenna 1b EIRP Data (NR Band n41(PC3))

ULCA LTE Band 7

Power State	Band	Bandwidth (PCC + SCC)	PCC					SCC					ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset						
Max	LTE B7	20MHz + 20MHz	QPSK	20850	2510.0	1	99	QPSK	21048	2529.8	1	0	23.20	-2.50	**20.70**	0.117	33.01	-12.31
				21100	2535.0	1	99		21298	2554.8	1	0	23.12	-2.50	20.62	0.115	33.01	-12.39
				21350	2560.0	1	0		21152	2540.2	1	99	23.06	-2.50	20.56	0.114	33.01	-12.45
			QPSK	20850	2510	100	0	QPSK	21048	2529.8	100	0	23.19	-2.50	20.69	0.117	33.01	-12.32
			16-QAM	20850	2510	100	0	16-QAM	21048	2529.8	100	0	22.79	-2.50	**20.29**	0.107	33.01	-12.72
			64-QAM	20850	2510	100	0	64-QAM	21048	2529.8	100	0	22.57	-2.50	**20.07**	0.102	33.01	-12.94
			256-QAM	20850	2510	100	0	256-QAM	21048	2529.8	100	0	22.18	-2.50	**19.68**	0.093	33.01	-13.33

Table 7-44. Antenna 1b EIRP Data (ULCA LTE Band 7)

ULCA LTE Band 41(PC2)

Power State	Band	Bandwidth (PCC + SCC)	PCC					SCC					ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset						
Max	LTE B41 (PC2)	20MHz + 20MHz	QPSK	39750	2506.0	1	99	QPSK	39948	2525.8	1	0	27.07	-3.60	**23.47**	0.222	33.01	-9.54
				40620	2593.0	1	99		40818	2612.8	1	0	26.96	-3.60	23.36	0.217	33.01	-9.65
				41490	2680.0	1	0		41292	2660.2	1	99	27.04	-3.60	23.44	0.221	33.01	-9.57
			QPSK	39750	2506	100	0	QPSK	39948	2525.8	100	0	26.05	-3.60	22.45	0.176	33.01	-10.56
			16-QAM	39750	2506	100	0	16-QAM	39948	2525.8	100	0	25.57	-3.60	**21.97**	0.157	33.01	-11.04
			64-QAM	39750	2506	100	0	64-QAM	39948	2525.8	100	0	23.96	-3.60	**20.36**	0.109	33.01	-12.65
			256-QAM	39750	2506	100	0	256-QAM	39948	2525.8	100	0	22.35	-3.60	**18.75**	0.075	33.01	-14.26

Table 7-45. Antenna 1b EIRP Data (ULCA LTE Band 41 (PC2))

ULCA LTE Band 41(PC3)

Power State	Band	Bandwidth (PCC + SCC)	PCC					SCC					ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [W]	EIRP Limit [dBm]	Margin [dB]
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset						
Max	LTE B41 (PC3)	20MHz + 20MHz	QPSK	39750	2506.0	1	99	QPSK	39948	2525.8	1	0	25.38	-3.60	**21.78**	0.151	33.01	-11.23
				40620	2593.0	1	99		40818	2612.8	1	0	25.26	-3.60	21.66	0.147	33.01	-11.35
				41490	2680.0	1	0		41292	2660.2	1	99	25.36	-3.60	21.76	0.150	33.01	-11.25
			QPSK	39750	2506	100	0	QPSK	39948	2525.8	100	0	23.21	-3.60	19.61	0.091	33.01	-13.40
			16-QAM	39750	2506	100	0	16-QAM	39948	2525.8	100	0	22.27	-3.60	**18.67**	0.074	33.01	-14.34
			64-QAM	39750	2506	100	0	64-QAM	39948	2525.8	100	0	22.16	-3.60	**18.56**	0.072	33.01	-14.45
			256-QAM	39750	2506	100	0	256-QAM	39948	2525.8	100	0	20.26	-3.60	**16.66**	0.046	33.01	-16.35

Table 7-46. Antenna 1b EIRP Data (ULCA LTE Band 41 (PC3))

7.7 Radiated Spurious Emissions

§2.1053, 27.53(a), 27.53(m)

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in KDB 971168 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using horizontally and vertically polarized broadband hybrid antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed while the EUT is operating at maximum power and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.8

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW ≥ 3 x RBW
3. Span = 1.5 times the OBW
4. No. of sweep points ≥ 2 x span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

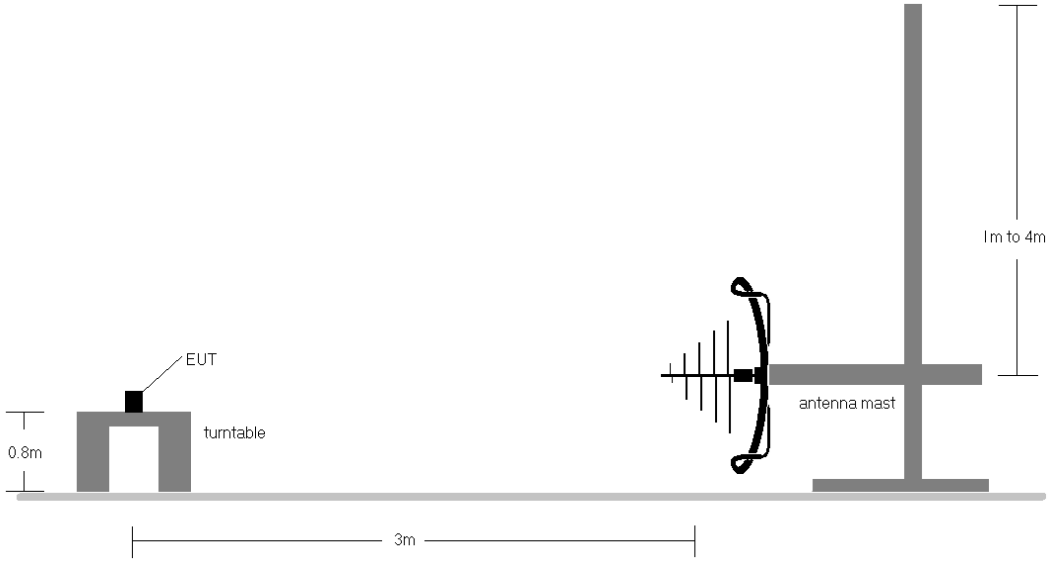


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

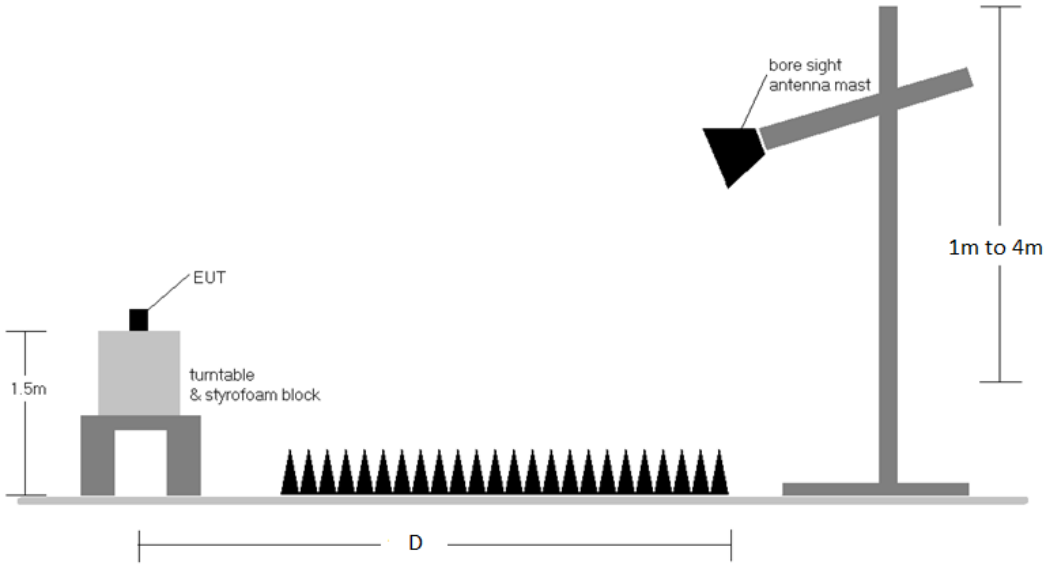


Figure 7-7. Test Instrument & Measurement Setup >1 GHz

Test Notes

1. Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
    a. E(dBµV/m) = Measured amplitude level (dBm) + 107 + Cable Loss (dB) + Antenna Factor (dB/m)
    b. EIRP (dBm) = E(dBµV/m) + 20logD – 104.8; where D is the measurement distance in meters.

2. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.

3. This unit was tested with its standard battery.

4. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.

5. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.

6. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

7. Uplink carrier aggregation intra-band radiated spurious emissions measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. The worst case (highest) emissions were found while operating with QPSK modulation with both carriers set to transmit using 1RB.

8. Uplink carrier aggregation for LTE Band 7 is only supported in this EUT while operating in Power Class 3.

9. Uplink carrier aggregation for LTE Band 41 is supported in this EUT while operating in Power Class 2 and Power Class 3.

10. Uplink carrier aggregation inter-band emission was investigated and found to not be the worst case.

11. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

12. Spurious emission in EN-DC Operating mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor) has been checked and was found to not to be the worst case.

13. For LTE Band 30 pre-scans above 1GHz, the RBW is set to 1MHz and VBW to 30kHz. For final measurements above 1GHz, the RBW is set to 1MHz and VBW to 3MHz when measuring with an RMS detector and trace averaging.

14. Pre-scan plots have been reported for the highest power antenna while measurements have been reported for all antennas.

7.7.1 Antenna 4 Radiated Spurious Emission Measurements

LTE Band 30

Bandwidth (MHz):	5
Frequency (MHz):	2307.5
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4615.0	V	291	236	-75.77	5.02	36.25	-58.98	-40.00	-18.98
6922.5	V	-	-	-79.64	8.26	35.62	-59.61	-40.00	-19.61
9230.0	V	-	-	-80.45	9.43	35.98	-59.25	-40.00	-19.25
11537.5	V	-	-	-80.95	12.11	38.16	-57.07	-40.00	-17.07

Table 7-47. Radiated Spurious Data (LTE Band 30 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4620.0	V	326	231	-75.64	5.03	36.39	-58.84	-40.00	-18.84
6930.0	V	-	-	-79.65	8.21	35.56	-59.67	-40.00	-19.67
9240.0	V	-	-	-80.57	9.37	35.80	-59.43	-40.00	-19.43
11550.0	V	-	-	-81.14	12.11	37.97	-57.26	-40.00	-17.26

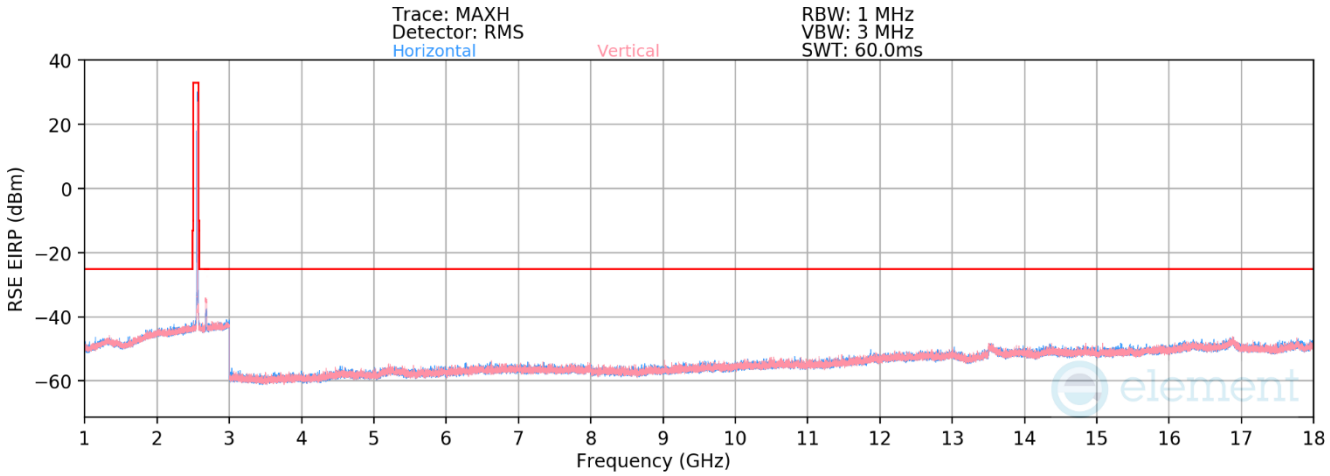
Table 7-48. Radiated Spurious Data (LTE Band 30 – Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	2312.5
RB / Offset:	1 / 12

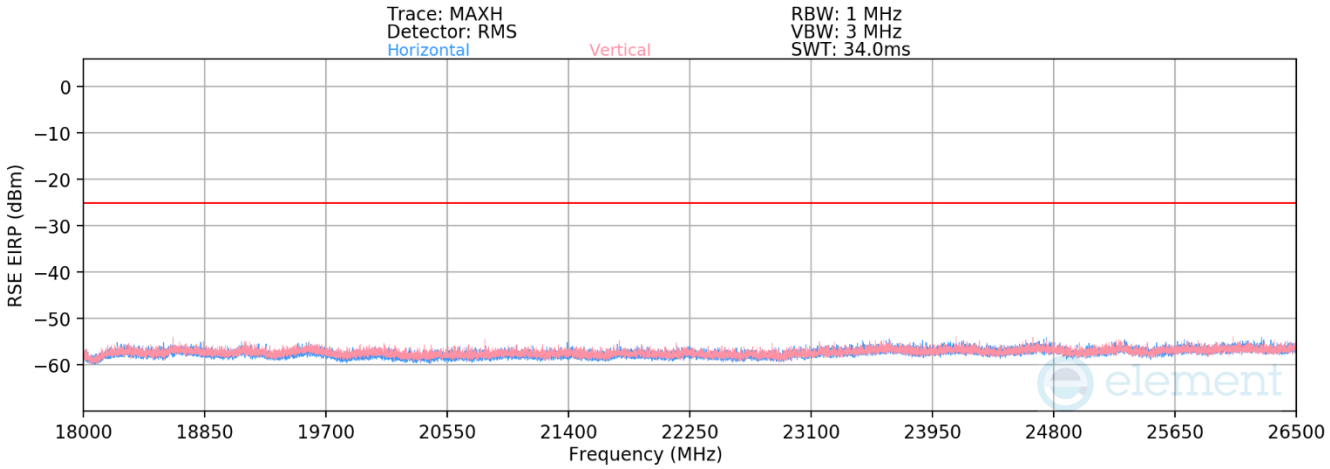
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4625.00	V	305	228	-74.83	5.09	37.26	-57.97	-40.00	-17.97
6937.50	V	-	-	-79.52	8.18	35.66	-59.57	-40.00	-19.57
9250.00	V	-	-	-80.54	9.31	35.77	-59.46	-40.00	-19.46
11562.50	V	-	-	-81.11	12.12	38.01	-57.22	-40.00	-17.22

Table 7-49. Radiated Spurious Data (LTE Band 30 – High Channel)

LTE Band 7



Plot 7-907. Antenna 4 Radiated Spurious Plot 1GHz – 18GHz (LTE Band 7)



Plot 7-908. Antenna 4 Radiated Spurious Emission above 18GHz (LTE Band 7, Pol. H/V)

Bandwidth (MHz):	20
Frequency (MHz):	2510.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.0	H	150	159	-77.39	4.94	34.55	-60.71	-25.00	-35.71
7530.0	H	-	-	-82.33	8.49	33.16	-62.10	-25.00	-37.10
10040.0	H	-	-	-82.54	10.39	34.85	-60.41	-25.00	-35.41
12550.0	H	-	-	-83.64	14.12	37.48	-57.78	-25.00	-32.78

Table 7-50. Radiated Spurious Data (LTE Band 7 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	2535.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	H	145	149	-78.94	5.27	33.33	-61.93	-25.00	-36.93
7605.0	H	-	-	-82.34	8.61	33.27	-61.99	-25.00	-36.99
10140.0	H	-	-	-82.82	10.83	35.01	-60.25	-25.00	-35.25
12675.0	H	-	-	-83.59	14.34	37.75	-57.51	-25.00	-32.51

Table 7-51. Radiated Spurious Data (LTE Band 7 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	2560.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5120.00	H	156	153	-76.77	5.34	35.57	-59.69	-25.00	-34.69
7680.00	H	-	-	-82.27	8.56	33.29	-61.97	-25.00	-36.97
10240.00	H	-	-	-82.75	10.70	34.95	-60.31	-25.00	-35.31
12800.00	H	-	-	-84.43	14.85	37.42	-57.84	-25.00	-32.84

Table 7-52. Radiated Spurious Data (LTE Band 7 – High Channel)

LTE Band 41

Bandwidth (MHz):	20
Frequency (MHz):	2506.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.0	V	-	-	-75.48	2.57	34.09	-61.17	-25.00	-36.17
7518.0	V	263	227	-73.05	4.45	38.40	-56.86	-25.00	-31.86
10024.0	V	-	-	-77.17	5.24	35.07	-60.18	-25.00	-35.18
12530.0	V	-	-	-79.57	9.77	37.20	-58.05	-25.00	-33.05
15036.0	V	-	-	-80.02	11.63	38.61	-56.65	-25.00	-31.65

Table 7-53. Radiated Spurious Data (LTE Band 41 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	2593.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	V	-	-	-76.73	3.78	34.05	-61.21	-25.00	-36.21
7779.0	V	265	224	-71.83	3.99	39.16	-56.10	-25.00	-31.10
10372.0	V	-	-	-77.96	5.95	34.99	-60.26	-25.00	-35.26
12965.0	V	-	-	-80.23	10.67	37.44	-57.82	-25.00	-32.82
15558.0	V	-	-	-80.96	13.01	39.05	-56.21	-25.00	-31.21

Table 7-54. Radiated Spurious Data (LTE Band 41 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	2680.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.0	V	-	-	-76.98	3.44	33.46	-61.80	-25.00	-36.80
8040.0	V	-	-	-76.21	3.85	34.64	-60.62	-25.00	-35.62
10720.0	V	-	-	-77.96	6.95	35.99	-59.27	-25.00	-34.27

Table 7-55. Radiated Spurious Data (LTE Band 41 – High Channel)

NR Band n30

Bandwidth (MHz):	5
Frequency (MHz):	2307.5
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4615.0	V	-	-	-78.69	5.02	33.33	-61.93	-40.00	-21.93
6922.5	V	-	-	-79.22	8.26	36.04	-59.22	-40.00	-19.22
9230.0	V	-	-	-80.30	9.43	36.13	-59.13	-40.00	-19.13

Table 7-56. Radiated Spurious Data (NR Band n30 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4620.0	V	-	-	-79.07	5.03	32.96	-62.30	-40.00	-22.30
6930.0	V	-	-	-79.16	8.21	36.05	-59.21	-40.00	-19.21
9240.0	V	-	-	-79.87	9.37	36.50	-58.75	-40.00	-18.75

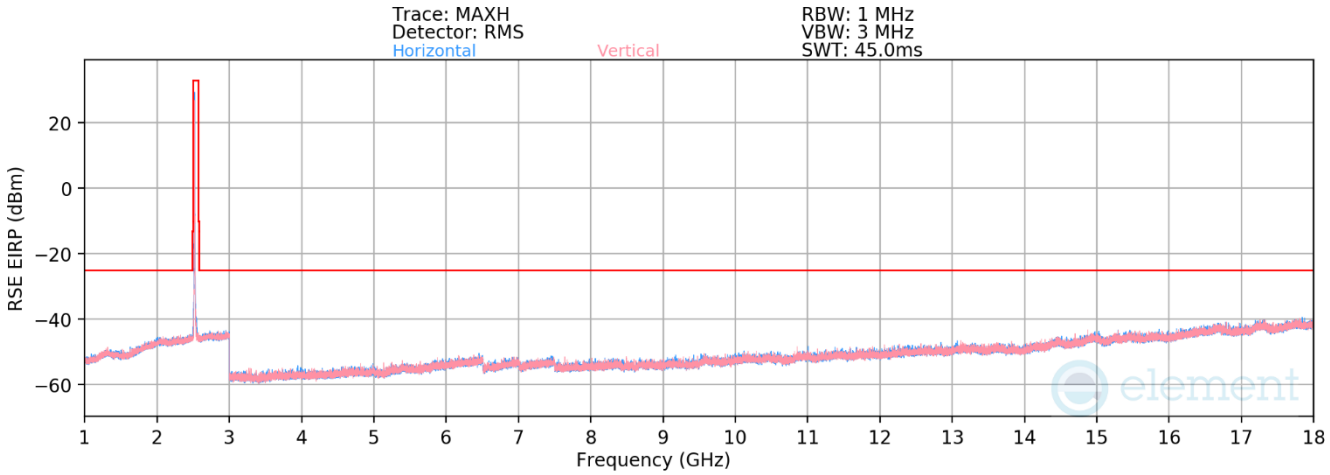
Table 7-57. Radiated Spurious Data (NR Band n30 – Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	2312.5
RB / Offset:	1 / 12

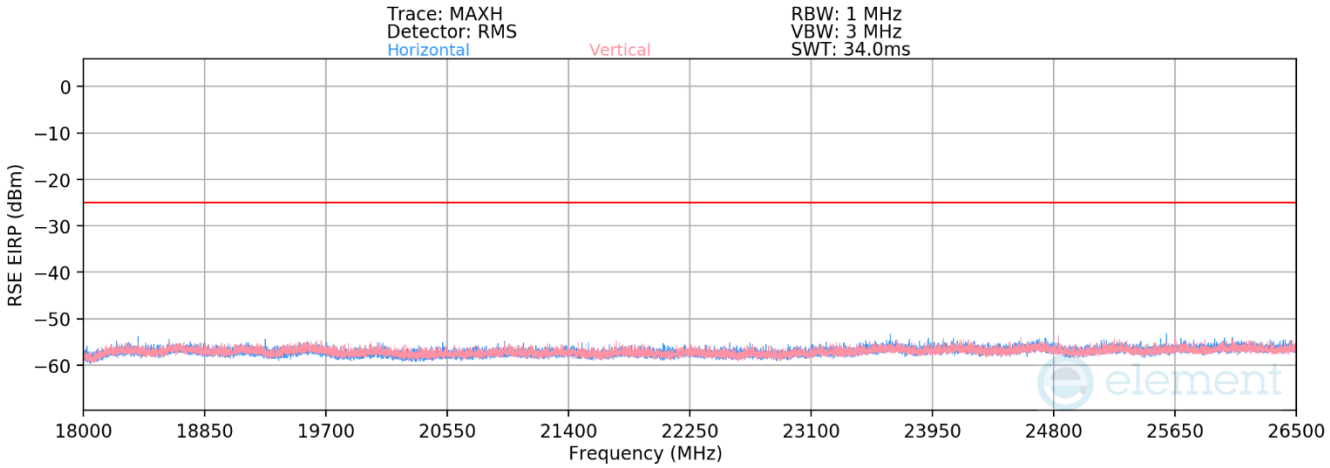
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4625.0	V	-	-	-79.06	5.09	33.03	-62.23	-40.00	-22.23
6937.5	V	-	-	-79.45	8.18	35.73	-59.53	-40.00	-19.53
9250.0	V	-	-	-80.43	9.31	35.88	-59.38	-40.00	-19.38

Table 7-58. Radiated Spurious Data (NR Band n30 – High Channel)

NR Band n7



Plot 7-909. Antenna 4 Radiated Spurious Plot 1GHz – 18GHz (NR Band n7)



Plot 7-910. Antenna 4 Radiated Spurious Emission above 18GHz (NR Band n7, Pol. H/V)

Bandwidth (MHz):	40
Frequency (MHz):	2520.0
RB / Offset:	1 / 108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5040.0	V	150	151	-79.33	5.36	33.03	-62.23	-25.00	-37.23
7560.0	V	230	145	-78.32	8.54	37.22	-58.04	-25.00	-33.04
10080.0	V	-	-	-80.62	10.56	36.94	-58.32	-25.00	-33.32
12600.0	V	-	-	-81.23	13.62	39.39	-55.87	-25.00	-30.87
15120.0	V	-	-	-81.80	16.10	41.30	-53.96	-25.00	-28.96

Table 7-59. Radiated Spurious Data (NR Band n7 – Low Channel)

Bandwidth (MHz):	40
Frequency (MHz):	2535.0
RB / Offset:	1 / 108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	V	142	161	-79.72	5.58	32.86	-62.40	-25.00	-37.40
7605.0	V	-	-	-80.87	8.52	34.65	-60.61	-25.00	-35.61
10140.0	V	-	-	-80.68	10.75	37.07	-58.19	-25.00	-33.19
12675.0	V	-	-	-81.11	13.87	39.76	-55.50	-25.00	-30.50

Table 7-60. Radiated Spurious Data (NR Band n7 – Mid Channel)

Bandwidth (MHz):	40
Frequency (MHz):	2550.0
RB / Offset:	1 / 108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5100.0	V	140	146	-77.71	5.56	34.85	-60.41	-25.00	-35.41
7650.0	V	236	156	-79.17	8.46	36.29	-58.97	-25.00	-33.97
10200.0	V	-	-	-80.58	10.66	37.08	-58.18	-25.00	-33.18
12750.0	V	-	-	-81.71	14.05	39.34	-55.92	-25.00	-30.92
15300.0	V	-	-	-82.10	17.22	42.12	-53.14	-25.00	-28.14

Table 7-61. Radiated Spurious Data (NR Band n7 – High Channel)

NR Band n41

Bandwidth (MHz):	100
Frequency (MHz):	2546.0
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5092.0	V	304	230	-71.86	5.00	40.14	-55.12	-25.00	-30.12
7638.0	V	-	-	-79.42	8.90	36.47	-58.78	-25.00	-33.78
10184.0	V	-	-	-80.13	10.91	37.78	-57.47	-25.00	-32.47
12730.0	V	-	-	-80.69	13.99	40.30	-54.96	-25.00	-29.96

Table 7-62. Radiated Spurious Data (NR Band n41 – Low Channel)

Bandwidth (MHz):	100
Frequency (MHz):	2593.0
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	V	264	11	-73.89	4.62	37.73	-57.53	-25.00	-32.53
7779.0	V	-	-	-79.88	9.40	36.52	-58.74	-25.00	-33.74
10372.0	V	-	-	-79.58	10.49	37.91	-57.35	-25.00	-32.35
12965.0	V	-	-	-80.80	14.28	40.48	-54.78	-25.00	-29.78

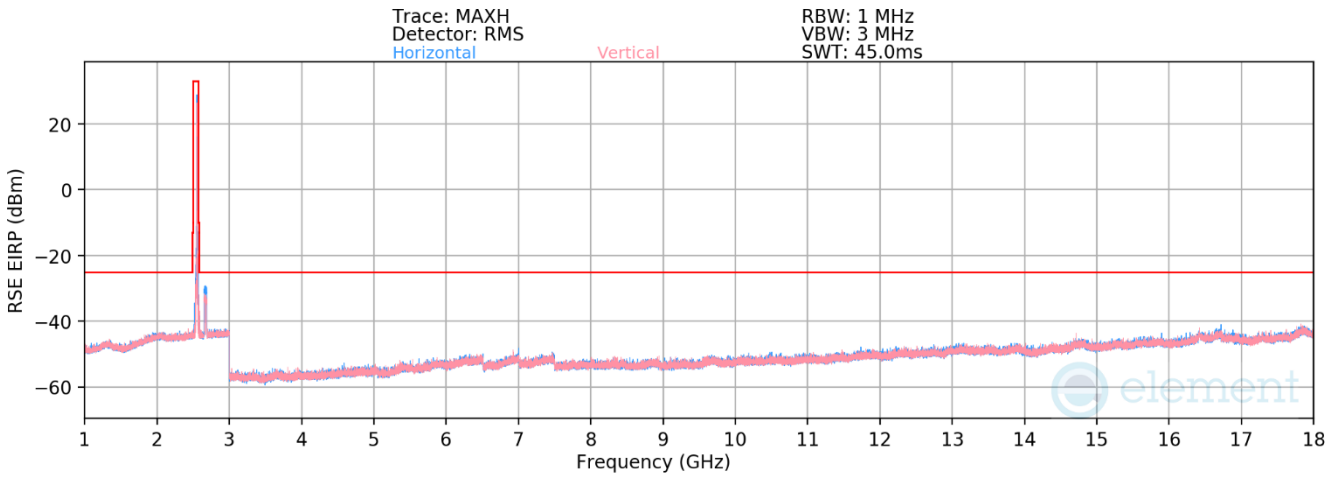
Table 7-63. Radiated Spurious Data (NR Band n41 – Mid Channel)

Bandwidth (MHz):	100
Frequency (MHz):	2640.0
RB / Offset:	1 / 136

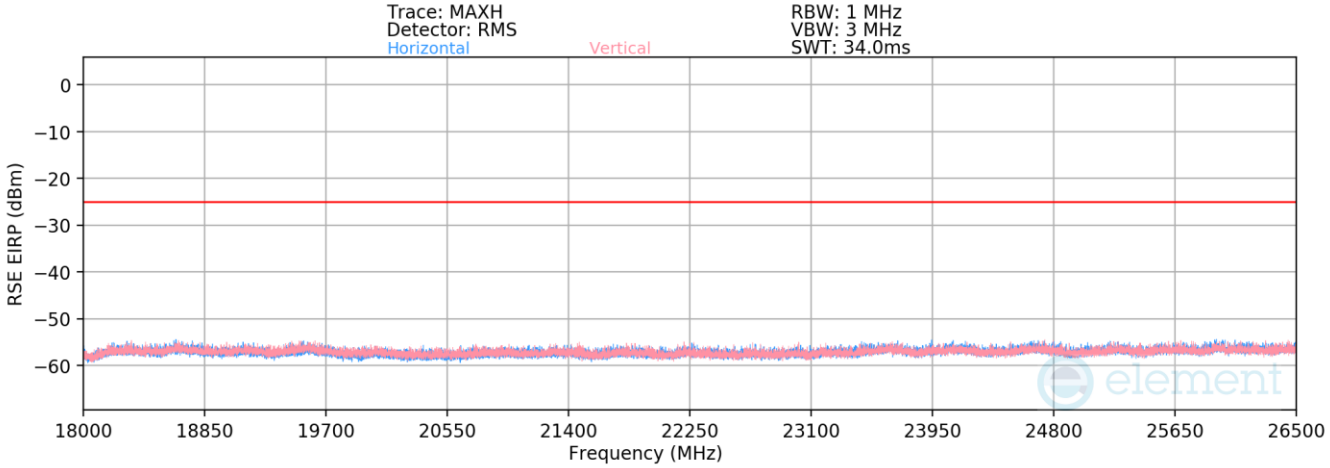
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5280.0	V	-	-	-77.33	4.95	34.62	-60.63	-25.00	-35.63
7920.0	V	-	-	-79.85	9.35	36.51	-58.75	-25.00	-33.75
10560.0	V	-	-	-79.90	11.47	38.58	-56.68	-25.00	-31.68

Table 7-64. Radiated Spurious Data (NR Band n41 – High Channel)

ULCA - LTE B7



Plot 7-911. Antenna 4 Radiated Spurious Plot 1GHz – 18GHz (ULCA LTE B7)



Plot 7-912. Antenna 4 Radiated Spurious Emission above 18GHz (ULCA LTE B7, Pol. H/V)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2510.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2529.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.0	H	-	-	-78.56	4.53	32.97	-62.28	-25.00	-37.28
7530.0	H	-	-	-80.94	8.47	34.53	-60.73	-25.00	-35.73
10040.0	H	-	-	-81.43	10.62	36.19	-59.07	-25.00	-34.07
12550.0	H	-	-	-82.59	13.81	38.22	-57.03	-25.00	-32.03

Table 7-65. Radiated Spurious Data (ULCA LTE B7 – Low Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2535.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2554.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	H	-	-	-78.86	4.89	33.03	-62.23	-25.00	-37.23
7605.0	H	-	-	-81.08	8.79	34.71	-60.55	-25.00	-35.55
10140.0	H	-	-	-81.21	10.66	36.45	-58.81	-25.00	-33.81
12675.0	H	-	-	-82.93	13.98	38.05	-57.21	-25.00	-32.21

Table 7-66. Radiated Spurious Data (ULCA LTE B7 – Mid Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2560.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2540.2
SCC RB / Offset:	1 / 99

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5120.0	H	-	-	-78.00	4.81	33.81	-61.45	-25.00	-36.45
7680.0	H	-	-	-81.06	9.15	35.09	-60.16	-25.00	-35.16
10240.0	H	-	-	-81.21	10.55	36.34	-58.92	-25.00	-33.92
12800.0	H	-	-	-80.00	13.85	40.85	-54.41	-25.00	-29.41

Table 7-67. Radiated Spurious Data (ULCA LTE B7 – High Channel)

ULCA - LTE B41

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2506.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2525.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.0	H	-	-	-77.66	4.55	33.89	-61.34	-25.00	-36.34
7518.0	H	-	-	-79.40	8.50	36.10	-59.13	-25.00	-34.13
10024.0	H	-	-	-79.58	10.60	38.02	-57.21	-25.00	-32.21

Table 7-68. Radiated Spurious Data (ULCA LTE B41 – Low Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2593.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2612.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	H	-	-	-77.18	4.63	34.45	-60.78	-25.00	-35.78
7779.0	H	-	-	-80.15	9.36	36.21	-59.02	-25.00	-34.02
10372.0	H	-	-	-79.62	10.52	37.90	-57.33	-25.00	-32.33

Table 7-69. Radiated Spurious Data (ULCA LTE B41 – Mid Channel)

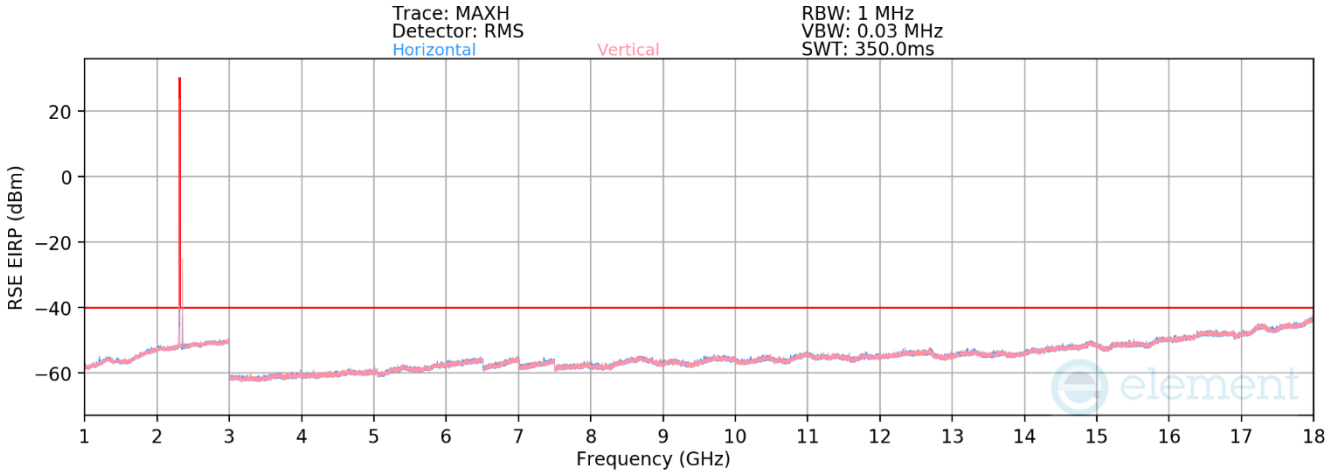
PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2680.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2660.2
SCC RB / Offset:	1 / 99

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.0	H	-	-	-78.08	5.73	34.65	-60.58	-25.00	-35.58
8040.0	H	-	-	-79.84	9.22	36.38	-58.85	-25.00	-33.85
10720.0	H	-	-	-79.95	11.06	38.11	-57.12	-25.00	-32.12

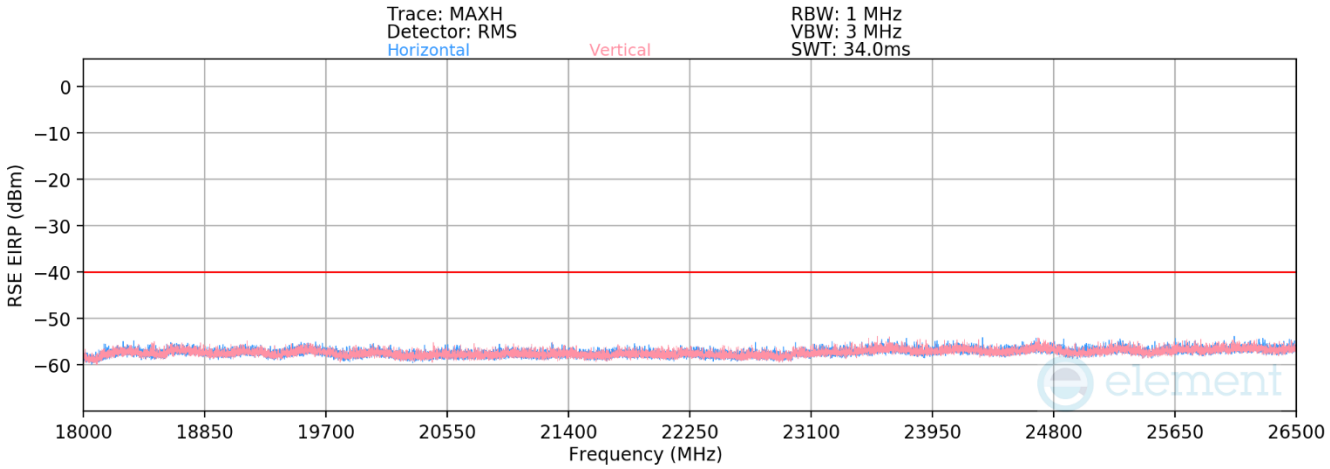
Table 7-70. Radiated Spurious Data (ULCA LTE B41 – High Channel)

7.7.2 Antenna 2b Radiated Spurious Emission Measurements

LTE Band 30



Plot 7-913. Antenna 2b Radiated Spurious Plot 1GHz – 18GHz (LTE Band 30)



Plot 7-914. Antenna 2b Radiated Spurious Emission above 18GHz (LTE Band 30, Pol. H/V)

Bandwidth (MHz):	5
Frequency (MHz):	2307.5
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4615.0	H	-	-	-79.16	5.02	32.86	-62.37	-40.00	-22.37
6922.5	H	-	-	-79.74	8.26	35.52	-59.71	-40.00	-19.71
9230.0	H	-	-	-80.50	9.43	35.93	-59.30	-40.00	-19.30

Table 7-71. Radiated Spurious Data (LTE Band 30 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4620.0	H	-	-	-79.37	5.03	32.66	-62.57	-40.00	-22.57
6930.0	H	-	-	-79.68	8.21	35.53	-59.70	-40.00	-19.70
9240.0	H	-	-	-80.54	9.37	35.83	-59.40	-40.00	-19.40

Table 7-72. Radiated Spurious Data (LTE Band 30 – Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	2312.5
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4625.00	H	-	-	-79.42	5.09	32.67	-62.56	-40.00	-22.56
6937.50	H	-	-	-79.57	8.18	35.61	-59.62	-40.00	-19.62
9250.00	H	-	-	-80.69	9.31	35.62	-59.61	-40.00	-19.61

Table 7-73. Radiated Spurious Data (LTE Band 30 – High Channel)

LTE Band 7

Bandwidth (MHz):	20
Frequency (MHz):	2510.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.0	H	-	-	-79.34	4.94	32.60	-62.63	-25.00	-37.63
7530.0	H	-	-	-82.46	8.49	33.03	-62.20	-25.00	-37.20
10040.0	H	-	-	-82.59	10.39	34.80	-60.43	-25.00	-35.43

Table 7-74. Radiated Spurious Data (LTE Band 7 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	2535.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	H	-	-	-79.55	5.27	32.72	-62.51	-25.00	-37.51
7605.0	H	-	-	-82.41	8.61	33.20	-62.03	-25.00	-37.03
10140.0	H	-	-	-82.82	10.83	35.01	-60.22	-25.00	-35.22

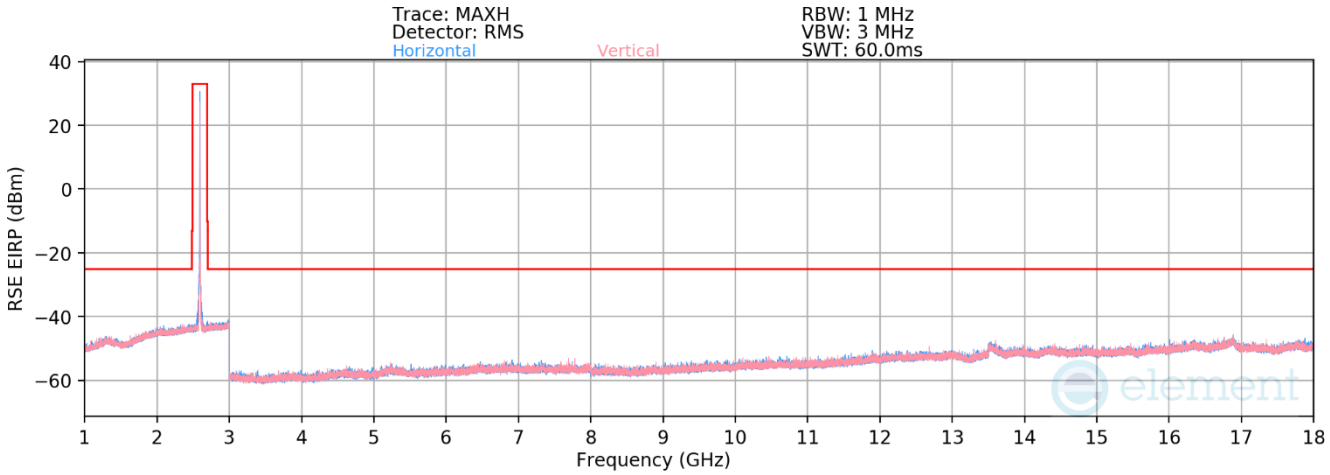
Table 7-75. Radiated Spurious Data (LTE Band 7 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	2560.0
RB / Offset:	1 / 50

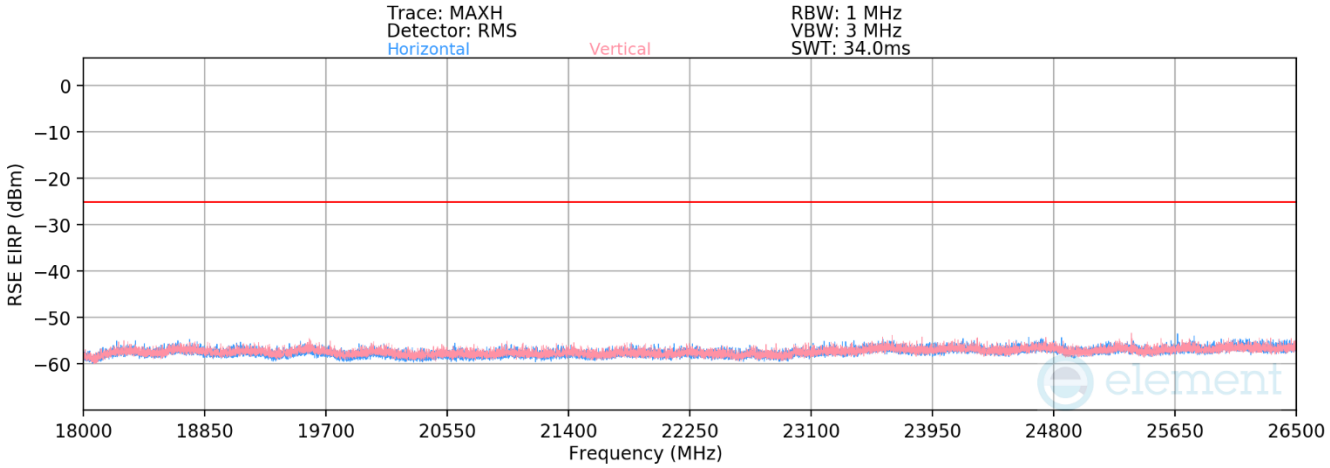
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5120.00	H	-	-	-79.22	5.34	33.12	-62.11	-25.00	-37.11
7680.00	H	-	-	-82.07	8.56	33.49	-61.74	-25.00	-36.74
10240.00	H	-	-	-82.78	10.70	34.92	-60.31	-25.00	-35.31

Table 7-76. Radiated Spurious Data (LTE Band 7 – High Channel)

LTE Band 41



Plot 7-915. Antenna 2b Radiated Spurious Plot 1GHz – 18GHz (LTE Band 41)



Plot 7-916. Antenna 2b Radiated Spurious Emission above 18GHz (LTE Band 41, Pol. H/V)

Bandwidth (MHz):	20
Frequency (MHz):	2506.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.0	H	264	31	-74.95	2.57	34.62	-60.64	-25.00	-35.64
7518.0	V	132	191	-68.54	4.45	42.91	-52.35	-25.00	-27.35
10024.0	V	-	-	-77.27	5.24	34.97	-60.28	-25.00	-35.28
12530.0	V	-	-	-79.42	9.77	37.35	-57.90	-25.00	-32.90
15036.0	V	-	-	-79.90	11.63	38.73	-56.53	-25.00	-31.53

Table 7-77. Radiated Spurious Data (LTE Band 41 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	2593.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	H	-	-	-77.01	3.78	33.77	-61.49	-25.00	-36.49
7779.0	H	160	230	-74.49	3.99	36.50	-58.76	-25.00	-33.76
10372.0	H	-	-	-77.88	5.95	35.07	-60.18	-25.00	-35.18
12965.0	H	-	-	-80.14	10.67	37.53	-57.73	-25.00	-32.73
15558.0	H	-	-	-80.81	13.01	39.20	-56.06	-25.00	-31.06

Table 7-78. Radiated Spurious Data (LTE Band 41 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	2680.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.0	H	-	-	-76.62	3.44	33.82	-61.44	-25.00	-36.44
8040.0	H	229	57	-75.39	3.85	35.46	-59.80	-25.00	-34.80
10720.0	H	-	-	-78.12	6.95	35.83	-59.43	-25.00	-34.43
13400.0	H	-	-	-80.25	10.07	36.82	-58.44	-25.00	-33.44
16080.0	H	-	-	-81.34	14.80	40.46	-54.80	-25.00	-29.80

Table 7-79. Radiated Spurious Data (LTE Band 41 – High Channel)