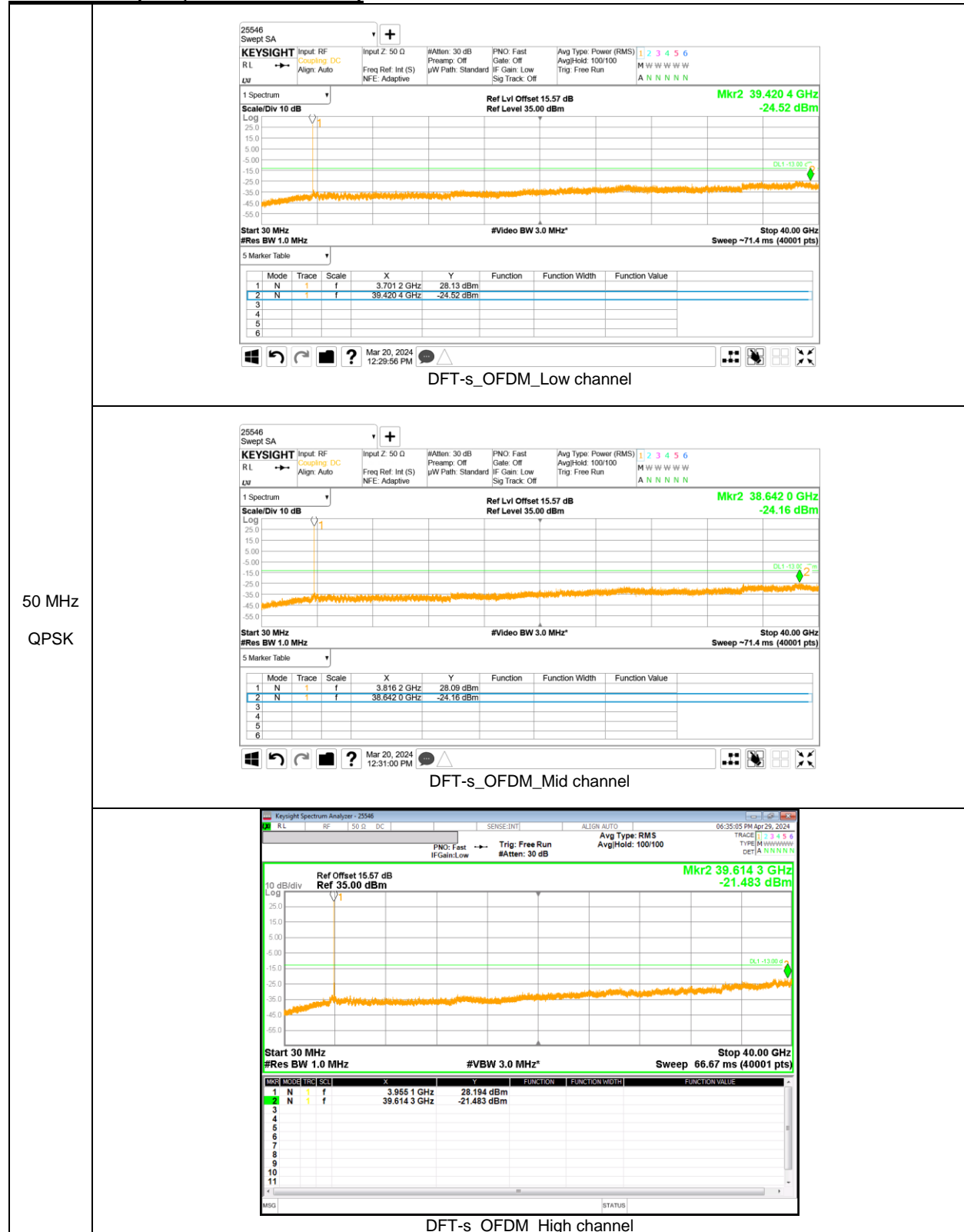


**NR Band n77(PC2, 3700 – 3980 MHz)**



## 8.6. FREQUENCY STABILITY

### RULE PART(S)

FCC: §2.1055, §27.54

### LIMITS

§27.54 - The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

### TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v03r01

### RESULTS

See the following pages.

### NOTE

Test were performed each lowest or highest frequency on the modulation condition of more wide bandwidth.(Please refer to OBW results)

### 8.6.1. FREQUENCY STABILITY RESULTS

#### WCDMA Band 4 (Lowest Frequency: HSDPA/ Highest Frequency: HSDPA)

Test Date	2024-03-08
Test Engineer	31870

Limit		1710	1755	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ End of OBW (MHz)	F high @ End of OBW (MHz)		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)	Normal	1710.3187	1754.6746		
Extreme (50C)		1710.3187	1754.6746	10.3	0.006
Extreme (40C)		1710.3187	1754.6746	13.2	0.008
Extreme (30C)		1710.3187	1754.6746	15.8	0.009
Extreme (10C)		1710.3187	1754.6746	8.3	0.005
Extreme (0C)		1710.3187	1754.6746	9.5	0.005
Extreme (-10C)		1710.3187	1754.6746	10.7	0.006
Extreme (-20C)		1710.3187	1754.6746	16.1	0.009
Extreme (-30C)		1710.3187	1754.6746	14.8	0.009
20C		15%	1710.3187	1754.6746	9.4
	-15%	1710.3187	1754.6746	7.8	0.005
	End Point	1710.3187	1754.6746	11.2	0.006

#### LTE Band 7 (Lowest Frequency: QPSK / Highest Frequency: QPSK)

Test Date	2024-03-15
Test Engineer	31870

Limit		2500	2570	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ End of OBW (MHz)	F high @ End of OBW (MHz)		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)	Normal	2500.2579	2569.7450		
Extreme (50C)		2500.2579	2569.7450	31.3	0.012
Extreme (40C)		2500.2579	2569.7450	22.7	0.009
Extreme (30C)		2500.2579	2569.7450	27.6	0.011
Extreme (10C)		2500.2579	2569.7450	19.6	0.008
Extreme (0C)		2500.2579	2569.7450	23.3	0.009
Extreme (-10C)		2500.2579	2569.7450	28.5	0.011
Extreme (-20C)		2500.2579	2569.7450	30.9	0.012
Extreme (-30C)		2500.2579	2569.7450	25.6	0.010
20C		15%	2500.2579	2569.7450	26.3
	-15%	2500.2579	2569.7450	27.2	0.011
	End Point	2500.2579	2569.7450	22.5	0.009

**LTE Band 12 (Lowest Frequency: QPSK/ Highest Frequency: 16QAM)**

Test Date	2024-03-12
Test Engineer	31870

Limit		699	716	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ End of OBW	F high @ End of OBW		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)	Normal	699.1539	715.8485	20.1	0.028
Extreme (50C)		699.1539	715.8485		
Extreme (40C)		699.1539	715.8485		
Extreme (30C)		699.1539	715.8485		
Extreme (10C)		699.1539	715.8485		
Extreme (0C)		699.1539	715.8485		
Extreme (-10C)		699.1539	715.8485		
Extreme (-20C)		699.1539	715.8485		
Extreme (-30C)		699.1539	715.8485		
20C	15%	699.1539	715.8485	8.3	0.012
	-15%	699.1539	715.8485	7.5	0.011
	End Point	699.1539	715.8485	9.6	0.014

**LTE Band 13 (Lowest Frequency: 16QAM / Highest Frequency: QPSK)**

Test Date	2024-03-12
Test Engineer	31870

Limit		777	787	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ End of OBW	F high @ End of OBW		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)	Normal	777.2509	786.7544	7.7	0.010
Extreme (50C)		777.2509	786.7544		
Extreme (40C)		777.2509	786.7544		
Extreme (30C)		777.2509	786.7544		
Extreme (10C)		777.2509	786.7544		
Extreme (0C)		777.2509	786.7544		
Extreme (-10C)		777.2509	786.7544		
Extreme (-20C)		777.2509	786.7544		
Extreme (-30C)		777.2509	786.7544		
20C	15%	777.2509	786.7544	6.4	0.008
	-15%	777.2509	786.7544	10.5	0.013
	End Point	777.2509	786.7544	9.6	0.012

**LTE Band 30 (Lowest Frequency: QPSK / Highest Frequency: 16QAM)**

Test Date	2024-03-15
Test Engineer	31870

Limit		2305	2315	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ End of OBW	F high @ End of OBW		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)	Normal	2305.2509	2314.7485	22.7	0.010
Extreme (50C)		2305.2509	2314.7485		
Extreme (40C)		2305.2509	2314.7485		
Extreme (30C)		2305.2509	2314.7485		
Extreme (10C)		2305.2509	2314.7485		
Extreme (0C)		2305.2509	2314.7485		
Extreme (-10C)		2305.2509	2314.7485		
Extreme (-20C)		2305.2509	2314.7485		
Extreme (-30C)		2305.2509	2314.7485		
20C		15%	2305.2509		
	-15%	2305.2509	2314.7485	15.6	0.007
	End Point	2305.2509	2314.7485	11.1	0.005

**LTE Band 41(PC2) (Lowest Frequency: QPSK / Highest Frequency: QPSK)**

Test Date	2024-03-18
Test Engineer	31870

Limit		2496	2690	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ End of OBW	F high @ End of OBW		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)	Normal	2496.2574	2689.7487	23.1	0.009
Extreme (50C)		2496.2574	2689.7487		
Extreme (40C)		2496.2574	2689.7487		
Extreme (30C)		2496.2574	2689.7487		
Extreme (10C)		2496.2574	2689.7487		
Extreme (0C)		2496.2574	2689.7487		
Extreme (-10C)		2496.2574	2689.7487		
Extreme (-20C)		2496.2574	2689.7487		
Extreme (-30C)		2496.2574	2689.7487		
20C		15%	2496.2574		
	-15%	2496.2574	2689.7487	7.6	0.003
	End Point	2496.2574	2689.7487	11.7	0.005

**LTE Band 66 (Lowest Frequency: 16QAM / Highest Frequency: QPSK)**

Test Date	2024-03-14
Test Engineer	31870

Limit		1710	1780	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ End of OBW	F high @ End of OBW		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)	Normal	1710.1534	1779.8470	14.6	0.008
Extreme (50C)		1710.1534	1779.8470		
Extreme (40C)		1710.1534	1779.8470		
Extreme (30C)		1710.1534	1779.8470		
Extreme (10C)		1710.1534	1779.8470		
Extreme (0C)		1710.1534	1779.8470		
Extreme (-10C)		1710.1534	1779.8470		
Extreme (-20C)		1710.1534	1779.8470		
Extreme (-30C)		1710.1534	1779.8470		
20C		15%	1710.1534		
	-15%	1710.1534	1779.8470	8.7	0.005
	End Point	1710.1534	1779.8470	11.2	0.006

**LTE Band 71 (Lowest Frequency: QPSK / Highest Frequency: 16QAM)**

Test Date	2024-03-12
Test Engineer	31870

Limit		663	698	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ End of OBW	F high @ End of OBW		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)	Normal	663.2541	697.7424	22.8	0.034
Extreme (50C)		663.2541	697.7424		
Extreme (40C)		663.2541	697.7424		
Extreme (30C)		663.2541	697.7424		
Extreme (10C)		663.2541	697.7424		
Extreme (0C)		663.2541	697.7424		
Extreme (-10C)		663.2541	697.7424		
Extreme (-20C)		663.2541	697.7424		
Extreme (-30C)		663.2541	697.7424		
20C		15%	663.2541		
	-15%	663.2541	697.7424	13.7	0.020
	End Point	663.2541	697.7424	9.6	0.014

**5G NR Band n7 (Lowest Frequency: QPSK / Highest Frequency: QPSK)**

Test Date	2024-03-21
Test Engineer	31870

Limit		2500	2570	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ End of OBW	F high @ End of OBW		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)	Normal	2500.2598	2569.7454	23.1	0.009
Extreme (50C)		2500.2598	2569.7454		
Extreme (40C)		2500.2598	2569.7454		
Extreme (30C)		2500.2598	2569.7454		
Extreme (10C)		2500.2598	2569.7454		
Extreme (0C)		2500.2598	2569.7454		
Extreme (-10C)		2500.2598	2569.7454		
Extreme (-20C)		2500.2598	2569.7454		
Extreme (-30C)		2500.2598	2569.7454		
20C		15%	2500.2598		
	-15%	2500.2598	2569.7454	20.7	0.008
	End Point	2500.2598	2569.7454	10.3	0.004

**5G NR Band n12 (Lowest Frequency: QPSK / Highest Frequency: QPSK)**

Test Date	2024-03-20
Test Engineer	31870

Limit		699	716	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ End of OBW	F high @ End of OBW		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)	Normal	699.2470	715.7500	31.3	0.044
Extreme (50C)		699.2470	715.7500		
Extreme (40C)		699.2470	715.7500		
Extreme (30C)		699.2470	715.7500		
Extreme (10C)		699.2470	715.7500		
Extreme (0C)		699.2470	715.7500		
Extreme (-10C)		699.2470	715.7500		
Extreme (-20C)		699.2470	715.7500		
Extreme (-30C)		699.2470	715.7500		
20C		15%	699.2470		
	-15%	699.2470	715.7500	10.3	0.014
	End Point	699.2470	715.7500	7.5	0.011

**5G NR Band n30 (Lowest Frequency: 16QAM / Highest Frequency: 16QAM)**

Test Date	2024-03-25
Test Engineer	31870

Limit		2305	2315	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ End of OBW	F high @ End of OBW		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)	Normal	2305.2466	2314.7450		
Extreme (50C)		2305.2466	2314.7450	16.3	0.007
Extreme (40C)		2305.2466	2314.7450	11.3	0.005
Extreme (30C)		2305.2466	2314.7450	10.3	0.004
Extreme (10C)		2305.2466	2314.7450	15.4	0.007
Extreme (0C)		2305.2466	2314.7450	9.7	0.004
Extreme (-10C)		2305.2466	2314.7450	12.2	0.005
Extreme (-20C)		2305.2466	2314.7450	10.1	0.004
Extreme (-30C)		2305.2466	2314.7450	20.0	0.009
20C	15%	2305.2466	2314.7450	17.0	0.007
	-15%	2305.2466	2314.7450	18.0	0.008
	End Point	2305.2466	2314.7450	14.7	0.006

**5G NR Band n41(PC2) (Lowest Frequency: 16QAM / Highest Frequency: 16QAM)**

Test Date	2024-03-15
Test Engineer	31870

Normal (20C)		2496	2690	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ End of OBW	F high @ End of OBW		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)	Normal	2496.7198	2689.2840		
Extreme (50C)		2496.7198	2689.2840	14.6	0.006
Extreme (40C)		2496.7198	2689.2840	13.7	0.005
Extreme (30C)		2496.7198	2689.2840	15.1	0.006
Extreme (10C)		2496.7198	2689.2840	15.1	0.006
Extreme (0C)		2496.7198	2689.2840	15.3	0.006
Extreme (-10C)		2496.7198	2689.2840	15.7	0.006
Extreme (-20C)		2496.7198	2689.2840	15.7	0.006
Extreme (-30C)		2496.7198	2689.2840	18.3	0.007
20C	15%	2496.7198	2689.2840	10.3	0.004
	-15%	2496.7198	2689.2840	13.8	0.005
	End Point	2496.7198	2689.2840	11.7	0.005



**5G NR Band n66 (Lowest Frequency: 16QAM / Highest Frequency: 16QAM)**

Test Date	2024-03-18
Test Engineer	31870

Limit		1710	1780	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ End of OBW	F high @ End of OBW		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)	Normal	1710.2575	1779.7428	6.6	0.004
Extreme (50C)		1710.2575	1779.7428		
Extreme (40C)		1710.2575	1779.7428		
Extreme (30C)		1710.2575	1779.7428		
Extreme (10C)		1710.2575	1779.7428		
Extreme (0C)		1710.2575	1779.7428		
Extreme (-10C)		1710.2575	1779.7428		
Extreme (-20C)		1710.2575	1779.7428		
Extreme (-30C)		1710.2575	1779.7428		
20C		15%	1710.2575		
	-15%	1710.2575	1779.7428	6.3	0.004
	End Point	1710.2575	1779.7428	4.7	0.003

**5G NR Band n70 (Lowest Frequency: QPSK / Highest Frequency: QPSK)**

Test Date	2024-03-25
Test Engineer	31870

Limit		1695	1710	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ End of OBW	F high @ End of OBW		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)	Normal	1695.2587	1709.7423	16.2	0.010
Extreme (50C)		1695.2587	1709.7423		
Extreme (40C)		1695.2587	1709.7423		
Extreme (30C)		1695.2587	1709.7423		
Extreme (10C)		1695.2587	1709.7423		
Extreme (0C)		1695.2587	1709.7423		
Extreme (-10C)		1695.2587	1709.7423		
Extreme (-20C)		1695.2587	1709.7423		
Extreme (-30C)		1695.2587	1709.7423		
20C		15%	1695.2587		
	-15%	1695.2587	1709.7423	11.6	0.007
	End Point	1695.2587	1709.7423	13.5	0.008

**5G NR Band n71 (Lowest Frequency: QPSK / Highest Frequency: QPSK)**

Test Date	2024-03-25
Test Engineer	31870

Limit		663	698	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ End of OBW	F high @ End of OBW		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)	Normal	663.0725	697.7412	10.2	0.015
Extreme (50C)		663.0725	697.7412		
Extreme (40C)		663.0725	697.7412		
Extreme (30C)		663.0725	697.7412		
Extreme (10C)		663.0725	697.7412		
Extreme (0C)		663.0725	697.7412		
Extreme (-10C)		663.0725	697.7412		
Extreme (-20C)		663.0725	697.7412		
Extreme (-30C)		663.0725	697.7412		
20C		15%	663.0725		
	-15%	663.0725	697.7412	4.4	0.006
	End Point	663.0725	697.7412	6.0	0.009

**NR Band n77(PC2) 3450 – 3550 MHz (Lowest Frequency: QPSK/ Highest Frequency: 16QAM)**

Test Date	2024-03-19
Test Engineer	31870

Limit		3450	3550	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ End of OBW	F high @ End of OBW		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)	Normal	3450.7056	3549.2825	24.0	0.007
Extreme (50C)		3450.7056	3549.2825		
Extreme (40C)		3450.7056	3549.2825		
Extreme (30C)		3450.7056	3549.2825		
Extreme (10C)		3450.7056	3549.2825		
Extreme (0C)		3450.7056	3549.2825		
Extreme (-10C)		3450.7056	3549.2825		
Extreme (-20C)		3450.7056	3549.2825		
Extreme (-30C)		3450.7056	3549.2825		
20C		15%	3450.7056		
	-15%	3450.7056	3549.2825	16.5	0.005
	End Point	3450.7056	3549.2825	15.3	0.004

**NR Band n77(PC2) 3700 – 3980 MHz**  
**(Lowest Frequency: QPSK / Highest Frequency: 16QAM)**

Test Date	2024-03-19
Test Engineer	31870

Limit		3700	3980	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ End of OBW	F high @ End of OBW		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)	Normal	3700.7083	3979.3003		
Extreme (50C)		3700.7083	3979.3003	13.3	0.003
Extreme (40C)		3700.7083	3979.3003	12.6	0.003
Extreme (30C)		3700.7083	3979.3003	11.4	0.003
Extreme (10C)		3700.7083	3979.3003	13.0	0.003
Extreme (0C)		3700.7083	3979.3003	13.3	0.003
Extreme (-10C)		3700.7083	3979.3003	14.6	0.004
Extreme (-20C)		3700.7083	3979.3003	23.0	0.006
Extreme (-30C)		3700.7083	3979.3003	20.3	0.005
20C	15%	3700.7083	3979.3003	15.1	0.004
	-15%	3700.7083	3979.3003	21.7	0.006
	End Point	3700.7083	3979.3003	13.3	0.003

## 9. RADIATED RESULTS

### 9.1. RADIATED POWER (ERP & EIRP)

#### RULE PART(S)

FCC: §2.1046, §27.50

#### LIMITS

27.50:

(a)(3) Mobile and portable stations. (i) For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth. For mobile and portable stations using time division duplexing (TDD) technology, the duty cycle must not exceed 38 percent in the 2305-2315 MHz and 2350-2360 MHz bands. Mobile and portable stations using FDD technology are restricted to transmitting in the 2305-2315 MHz band. Power averaging shall not include intervals in which the transmitter is off.

(b)(10) Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

(c) (10) - Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

(d)(4) Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

(h) The following power limits shall apply in the BRS and EBS:

(2) Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

(j)(3) Mobile and portable stations are limited to 1 Watt EIRP. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

(k)(3) Mobile devices are limited to 1Watt (30 dBm) EIRP. Mobile devices operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

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## **TEST PROCEDURE**

ANSI / TIA / EIA 603 E Clause 2.2.17; ESU40 setting reference to 971168 D01 v03r01

For radiated output power measurement with a ESU40:

- a) Set the RBW  $\geq$  OBW;
- b) Set VBW  $\geq 3 \times$  RBW;
- c) Set span  $\geq 2 \times$  RBW;
- d) Sweep time = auto couple or 1 second;
- e) Detector = rms;
- f) Ensure that the number of measurement points  $\geq$  span/RBW;
- g) Trace Mode = max hold(WCDMA), average(LTE, 5G NR);

### **NOTE1**

LTE Band 41(PC2) A-MPR is implemented in this EUT when operating on HPUE per the A-MPR specification in 3GPP TS 36.101 (Table 6.2.4-4a). Also only Emission mask test item were performed A-MPR condition.

## **TEST RESULTS**

See the following pages.

### 9.1.1. ERP/EIRP Results

#### WCDMA

Band	Mode	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)
Band 4_ANT B	REL99	1712.40	17.07	H	4.31	9.51	22.27	168.66	33.00	-7.73
		1732.60	16.90	H	4.33	9.60	22.18	165.20	33.00	-7.82
		1752.60	17.46	H	4.36	9.68	22.79	190.11	33.00	-7.21
	HSDPA	1712.40	15.68	H	4.31	9.51	20.88	122.46	33.00	-9.12
		1732.60	15.32	H	4.33	9.60	20.60	114.82	33.00	-9.40
		1752.60	16.09	H	4.36	9.68	21.42	138.68	33.00	-8.58

#### LTE Band 7 (ANT B)

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
20	QPSK	2510.00	18.95	H	5.25	9.98	23.68	233.35	33.00	-9.32	1/99
		2535.00	19.30	H	5.28	9.93	23.96	248.89	33.00	-9.04	1/0
		2560.00	19.80	H	5.30	9.91	24.41	276.06	33.00	-8.59	1/0
	16-QAM	2510.00	18.00	H	5.25	9.98	22.73	187.50	33.00	-10.27	1/0
		2535.00	18.34	H	5.28	9.93	23.00	199.53	33.00	-10.00	1/0
		2560.00	18.95	H	5.30	9.91	23.56	226.99	33.00	-9.44	1/0
15	QPSK	2507.50	19.15	H	5.25	9.99	23.89	244.91	33.00	-9.11	1/0
		2535.00	19.30	H	5.28	9.93	23.96	248.89	33.00	-9.04	1/0
		2562.50	19.65	H	5.30	9.91	24.26	266.69	33.00	-8.74	1/0
	16-QAM	2507.50	18.16	H	5.25	9.99	22.90	194.98	33.00	-10.10	1/74
		2535.00	18.37	H	5.28	9.93	23.03	200.91	33.00	-9.97	1/37
		2562.50	18.71	H	5.30	9.91	23.32	214.78	33.00	-9.68	1/0
10	QPSK	2505.00	19.20	H	5.24	9.99	23.95	248.31	33.00	-9.05	1/25
		2535.00	19.64	H	5.28	9.93	24.30	269.15	33.00	-8.70	1/25
		2565.00	19.76	H	5.31	9.91	24.36	272.90	33.00	-8.64	1/25
	16-QAM	2505.00	18.36	H	5.24	9.99	23.11	204.64	33.00	-9.89	1/25
		2535.00	18.64	H	5.28	9.93	23.30	213.80	33.00	-9.70	1/25
		2565.00	18.89	H	5.31	9.91	23.49	223.36	33.00	-9.51	1/25
5	QPSK	2502.50	19.22	H	5.24	10.00	23.97	249.46	33.00	-9.03	1/12
		2535.00	19.67	H	5.28	9.93	24.33	271.02	33.00	-8.67	1/12
		2567.50	20.08	H	5.31	9.91	24.68	293.76	33.00	-8.32	1/12
	16-QAM	2502.50	18.20	H	5.24	10.00	22.95	197.24	33.00	-10.05	1/24
		2535.00	18.78	H	5.28	9.93	23.44	220.80	33.00	-9.56	1/24
		2567.50	18.99	H	5.31	9.91	23.59	228.56	33.00	-9.41	1/12

#### LTE Band 7 (ANT E)

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
20	QPSK	2510.00	18.77	H	5.25	9.98	23.50	223.87	33.00	-9.50	1/49
		2535.00	19.94	H	5.28	9.93	24.60	288.40	33.00	-8.40	1/99
		2560.00	19.28	H	5.30	9.91	23.89	244.91	33.00	-9.11	1/99
	16-QAM	2510.00	17.80	H	5.25	9.98	22.53	179.06	33.00	-10.47	1/99
		2535.00	18.75	H	5.28	9.93	23.41	219.28	33.00	-9.59	1/49
		2560.00	18.36	H	5.30	9.91	22.97	198.15	33.00	-10.03	1/99
15	QPSK	2507.50	18.40	H	5.25	9.99	23.14	206.06	33.00	-9.86	1/74
		2535.00	19.68	H	5.28	9.93	24.34	271.64	33.00	-8.66	1/74
		2562.50	18.80	H	5.30	9.91	23.41	219.28	33.00	-9.59	1/74
	16-QAM	2507.50	17.49	H	5.25	9.99	22.23	167.11	33.00	-10.77	1/0
		2535.00	19.00	H	5.28	9.93	23.66	232.27	33.00	-9.34	1/0
		2562.50	17.96	H	5.30	9.91	22.57	180.72	33.00	-10.43	1/74
10	QPSK	2505.00	17.60	H	5.24	9.99	22.35	171.79	33.00	-10.65	1/25
		2535.00	19.41	H	5.28	9.93	24.07	255.27	33.00	-8.93	1/0
		2565.00	18.72	H	5.31	9.91	23.32	214.78	33.00	-9.68	1/25
	16-QAM	2505.00	16.76	H	5.24	9.99	21.51	141.58	33.00	-11.49	1/25
		2535.00	18.56	H	5.28	9.93	23.22	209.89	33.00	-9.78	1/0
		2565.00	18.01	H	5.31	9.91	22.61	182.39	33.00	-10.39	1/25
5	QPSK	2502.50	16.23	H	5.24	10.00	20.98	125.31	33.00	-12.02	1/12
		2535.00	19.36	H	5.28	9.93	24.02	252.35	33.00	-8.98	1/12
		2567.50	18.60	H	5.31	9.91	23.20	208.93	33.00	-9.80	1/12
	16-QAM	2502.50	15.28	H	5.24	10.00	20.03	100.69	33.00	-12.97	1/12
		2535.00	18.53	H	5.28	9.93	23.19	208.45	33.00	-9.81	1/24
		2567.50	17.61	H	5.31	9.91	22.21	166.34	33.00	-10.79	1/24

**LTE Band 12 (ANT A+B)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB
10	QPSK	704.00	23.20	H	2.79	-1.34	19.07	80.72	34.77	-15.70	1/0
		707.50	22.99	H	2.79	-1.34	18.87	77.09	34.77	-15.90	1/0
		711.00	22.76	H	2.80	-1.33	18.63	72.95	34.77	-16.14	1/0
	16-QAM	704.00	22.12	H	2.79	-1.34	17.99	62.95	34.77	-16.78	1/0
		707.50	22.01	H	2.79	-1.34	17.89	61.52	34.77	-16.88	1/0
		711.00	21.74	H	2.80	-1.33	17.61	57.68	34.77	-17.16	1/25
5	QPSK	701.50	23.04	H	2.78	-1.35	18.91	77.80	34.77	-15.86	1/12
		707.50	22.86	H	2.79	-1.34	18.74	74.82	34.77	-16.03	1/0
		713.50	23.18	H	2.81	-1.32	19.05	80.35	34.77	-15.72	1/12
	16-QAM	701.50	21.97	H	2.78	-1.35	17.84	60.81	34.77	-16.93	1/12
		707.50	21.82	H	2.79	-1.34	17.70	58.88	34.77	-17.07	1/12
		713.50	22.18	H	2.81	-1.32	18.05	63.83	34.77	-16.72	1/24
3	QPSK	700.50	22.79	H	2.78	-1.35	18.66	73.45	34.77	-16.11	1/8
		707.50	22.72	H	2.79	-1.34	18.60	72.44	34.77	-16.17	1/8
		714.50	23.02	H	2.81	-1.32	18.90	77.62	34.77	-15.87	1/8
	16-QAM	700.50	21.80	H	2.78	-1.35	17.67	58.48	34.77	-17.10	1/8
		707.50	21.71	H	2.79	-1.34	17.59	57.41	34.77	-17.18	1/8
		714.50	21.88	H	2.81	-1.32	17.76	59.70	34.77	-17.01	1/8
1.4	QPSK	699.70	22.81	H	2.78	-1.35	18.67	73.62	34.77	-16.10	1/3
		707.50	22.59	H	2.79	-1.34	18.47	70.31	34.77	-16.30	1/3
		715.30	23.17	H	2.81	-1.32	19.04	80.17	34.77	-15.73	1/3
	16-QAM	699.70	21.78	H	2.78	-1.35	17.65	58.21	34.77	-17.12	1/3
		707.50	21.55	H	2.79	-1.34	17.43	55.34	34.77	-17.34	1/3
		715.30	22.15	H	2.81	-1.32	18.02	63.39	34.77	-16.75	1/3

**LTE Band 12 (ANT A)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB
10	QPSK	704.00	18.93	H	2.79	-1.34	14.80	30.20	34.77	-19.97	1/0
		707.50	19.01	H	2.79	-1.34	14.89	30.83	34.77	-19.88	1/0
		711.00	18.72	H	2.80	-1.33	14.59	28.77	34.77	-20.18	1/0
	16-QAM	704.00	18.04	H	2.79	-1.34	13.91	24.60	34.77	-20.86	1/0
		707.50	17.98	H	2.79	-1.34	13.86	24.32	34.77	-20.91	1/0
		711.00	17.71	H	2.80	-1.33	13.58	22.80	34.77	-21.19	1/25
5	QPSK	701.50	19.07	H	2.78	-1.35	14.94	31.19	34.77	-19.83	1/12
		707.50	18.91	H	2.79	-1.34	14.79	30.13	34.77	-19.98	1/0
		713.50	19.44	H	2.81	-1.32	15.31	33.96	34.77	-19.46	1/12
	16-QAM	701.50	18.06	H	2.78	-1.35	13.93	24.72	34.77	-20.84	1/12
		707.50	17.99	H	2.79	-1.34	13.87	24.38	34.77	-20.90	1/12
		713.50	18.34	H	2.81	-1.32	14.21	26.36	34.77	-20.56	1/24
3	QPSK	700.50	18.67	H	2.78	-1.35	14.54	28.44	34.77	-20.23	1/8
		707.50	18.88	H	2.79	-1.34	14.76	29.92	34.77	-20.01	1/8
		714.50	19.44	H	2.81	-1.32	15.32	34.04	34.77	-19.45	1/8
	16-QAM	700.50	17.75	H	2.78	-1.35	13.62	23.01	34.77	-21.15	1/8
		707.50	17.78	H	2.79	-1.34	13.66	23.23	34.77	-21.11	1/8
		714.50	18.59	H	2.81	-1.32	14.47	27.99	34.77	-20.30	1/8
1.4	QPSK	699.70	18.75	H	2.78	-1.35	14.62	28.97	34.77	-20.15	1/3
		707.50	18.62	H	2.79	-1.34	14.50	28.18	34.77	-20.27	1/3
		715.30	19.41	H	2.81	-1.32	15.28	33.73	34.77	-19.49	1/3
	16-QAM	699.70	17.63	H	2.78	-1.35	13.50	22.39	34.77	-21.27	1/3
		707.50	17.60	H	2.79	-1.34	13.48	22.28	34.77	-21.29	1/3
		715.30	18.30	H	2.81	-1.32	14.17	26.12	34.77	-20.60	1/3

**LTE Band 12 (ANT D)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB
10	QPSK	704.00	20.34	H	2.79	-1.34	16.21	41.78	34.77	-18.56	1/0
		707.50	20.59	H	2.79	-1.34	16.47	44.36	34.77	-18.30	1/0
		711.00	21.12	H	2.80	-1.33	16.99	50.00	34.77	-17.78	1/25
	16-QAM	704.00	19.55	H	2.79	-1.34	15.42	34.83	34.77	-19.35	1/0
		707.50	19.61	H	2.79	-1.34	15.49	35.40	34.77	-19.28	1/0
		711.00	20.13	H	2.80	-1.33	16.00	39.81	34.77	-18.77	1/25
5	QPSK	701.50	20.34	H	2.78	-1.35	16.21	41.78	34.77	-18.56	1/12
		707.50	20.66	H	2.79	-1.34	16.54	45.08	34.77	-18.23	1/0
		713.50	21.11	H	2.81	-1.32	16.98	49.89	34.77	-17.79	1/12
	16-QAM	701.50	19.58	H	2.78	-1.35	15.45	35.08	34.77	-19.32	1/0
		707.50	19.55	H	2.79	-1.34	15.43	34.91	34.77	-19.34	1/0
		713.50	20.01	H	2.81	-1.32	15.88	38.73	34.77	-18.89	1/12
3	QPSK	700.50	19.95	H	2.78	-1.35	15.82	38.19	34.77	-18.95	1/8
		707.50	20.18	H	2.79	-1.34	16.06	40.36	34.77	-18.71	1/8
		714.50	20.19	H	2.81	-1.32	16.07	40.46	34.77	-18.70	1/8
	16-QAM	700.50	19.92	H	2.78	-1.35	15.79	37.93	34.77	-18.98	1/8
		707.50	20.18	H	2.79	-1.34	16.06	40.36	34.77	-18.71	1/8
		714.50	19.99	H	2.81	-1.32	15.87	38.64	34.77	-18.90	1/8
1.4	QPSK	699.70	19.90	H	2.78	-1.35	15.77	37.76	34.77	-19.00	1/3
		707.50	20.05	H	2.79	-1.34	15.93	39.17	34.77	-18.84	1/3
		715.30	20.07	H	2.81	-1.32	15.94	39.26	34.77	-18.83	1/5
	16-QAM	699.70	19.75	H	2.78	-1.35	15.62	36.48	34.77	-19.15	1/0
		707.50	19.85	H	2.79	-1.34	15.73	37.41	34.77	-19.04	1/3
		715.30	19.93	H	2.81	-1.32	15.80	38.02	34.77	-18.97	1/3

**LTE Band 13 (ANT A+B)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB
10	QPSK	782.00	23.56	H	2.93	-1.19	19.44	87.90	34.77	-15.33	1/25
	16-QAM	782.00	22.53	H	2.93	-1.19	18.41	69.34	34.77	-16.36	1/25
5	QPSK	779.50	23.86	H	2.93	-1.19	19.74	94.19	34.77	-15.03	1/0
		782.00	23.65	H	2.93	-1.19	19.53	89.74	34.77	-15.24	1/12
		784.50	23.51	H	2.94	-1.18	19.39	86.90	34.77	-15.38	1/12
	16-QAM	779.50	22.91	H	2.93	-1.19	18.79	75.68	34.77	-15.98	1/0
		782.00	22.80	H	2.93	-1.19	18.68	73.79	34.77	-16.09	1/24
		784.50	22.39	H	2.94	-1.18	18.27	67.14	34.77	-16.50	1/12

**LTE Band 13 (ANT A)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB
10	QPSK	782.00	18.07	H	2.93	-1.19	13.95	24.83	34.77	-20.82	1/25
	16-QAM	782.00	16.90	H	2.93	-1.19	12.78	18.97	34.77	-21.99	1/25
5	QPSK	779.50	18.18	H	2.93	-1.19	14.06	25.47	34.77	-20.71	1/0
		782.00	17.95	H	2.93	-1.19	13.83	24.15	34.77	-20.94	1/12
		784.50	18.25	H	2.94	-1.18	14.13	25.88	34.77	-20.64	1/12
	16-QAM	779.50	17.05	H	2.93	-1.19	12.93	19.63	34.77	-21.84	1/0
		782.00	16.90	H	2.93	-1.19	12.78	18.97	34.77	-21.99	1/24
		784.50	17.25	H	2.94	-1.18	13.13	20.56	34.77	-21.64	1/12

**LTE Band 13 (ANT D)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB
10	QPSK	782.00	20.63	H	2.93	-1.19	16.51	44.77	34.77	-18.26	1/25
	16-QAM	782.00	19.92	H	2.93	-1.19	15.80	38.02	34.77	-18.97	1/25
5	QPSK	779.50	20.53	H	2.93	-1.19	16.41	43.75	34.77	-18.36	1/12
		782.00	20.36	H	2.93	-1.19	16.24	42.07	34.77	-18.53	1/12
		784.50	21.02	H	2.94	-1.18	16.90	48.98	34.77	-17.87	1/12
	16-QAM	779.50	19.72	H	2.93	-1.19	15.60	36.31	34.77	-19.17	1/0
		782.00	19.44	H	2.93	-1.19	15.32	34.04	34.77	-19.45	1/12
		784.50	20.13	H	2.94	-1.18	16.01	39.90	34.77	-18.76	1/12

**LTE Band 30 (ANT B)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
10	QPSK	2310.00	16.64	H	5.03	9.76	21.37	137.09	24.00	-2.63	1/25
	16-QAM	2310.00	15.72	H	5.03	9.76	20.45	110.92	24.00	-3.55	1/0
5	QPSK	2307.50	16.56	H	5.02	9.75	21.28	134.28	24.00	-2.72	1/12
		2310.00	16.38	H	5.03	9.76	21.11	129.12	24.00	-2.89	1/12
		2312.50	16.67	H	5.03	9.77	21.41	138.36	24.00	-2.59	1/12
	16-QAM	2307.50	15.65	H	5.03	9.77	20.39	109.40	24.00	-3.61	1/24
		2310.00	15.42	H	5.03	9.76	20.15	103.51	24.00	-3.85	1/12
		2312.50	15.77	H	5.03	9.76	20.50	112.20	24.00	-3.50	1/24

**LTE Band 30 (ANT E)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
10	QPSK	2310.00	16.59	V	5.03	9.76	21.32	135.52	24.00	-2.68	1/25
	16-QAM	2310.00	15.66	V	5.03	9.76	20.39	109.40	24.00	-3.61	1/25
5	QPSK	2307.50	16.54	V	5.02	9.75	21.27	133.97	24.00	-2.73	1/0
		2310.00	16.68	V	5.03	9.76	21.41	138.36	24.00	-2.59	1/12
		2312.50	16.52	V	5.03	9.77	21.26	133.66	24.00	-2.74	1/0
	16-QAM	2307.50	15.56	V	5.03	9.77	20.30	107.15	24.00	-3.70	1/0
		2310.00	15.68	V	5.03	9.76	20.41	109.90	24.00	-3.59	1/12
		2312.50	15.54	V	5.03	9.76	20.27	106.41	24.00	-3.73	1/0



**LTE Band 41 (ANT B)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
20	QPSK	2506.00	20.72	H	5.25	9.99	25.46	351.56	33.00	-7.54	1/99
		2593.00	20.71	H	5.34	9.91	25.29	338.06	33.00	-7.71	1/0
		2680.00	22.67	H	5.43	9.87	27.11	514.04	33.00	-5.89	1/49
	16-QAM	2506.00	19.92	H	5.25	9.99	24.66	292.42	33.00	-8.34	1/0
		2593.00	19.64	H	5.34	9.91	24.22	264.24	33.00	-8.78	1/49
		2680.00	21.99	H	5.43	9.87	26.43	439.54	33.00	-6.57	1/0
15	QPSK	2503.50	20.54	H	5.24	9.99	25.29	338.06	33.00	-7.71	1/37
		2593.00	20.60	H	5.34	9.91	25.18	329.61	33.00	-7.82	1/37
		2682.50	22.67	H	5.43	9.87	27.11	514.04	33.00	-5.89	1/0
	16-QAM	2503.50	19.69	H	5.24	9.99	24.44	277.97	33.00	-8.56	1/37
		2593.00	19.66	H	5.34	9.91	24.24	265.46	33.00	-8.76	1/37
		2682.50	21.98	H	5.43	9.87	26.42	438.53	33.00	-6.58	1/0
10	QPSK	2501.00	20.69	H	5.24	10.00	25.45	350.75	33.00	-7.55	1/49
		2593.00	20.56	H	5.34	9.91	25.14	326.59	33.00	-7.86	1/25
		2685.00	22.86	H	5.43	9.87	27.30	537.03	33.00	-5.70	1/0
	16-QAM	2501.00	19.92	H	5.24	10.00	24.68	293.76	33.00	-8.32	1/49
		2593.00	19.81	H	5.34	9.91	24.39	274.79	33.00	-8.61	1/25
		2685.00	22.02	H	5.43	9.87	26.46	442.59	33.00	-6.54	1/49
5	QPSK	2498.50	20.43	H	5.23	10.00	25.20	331.13	33.00	-7.80	1/12
		2593.00	20.80	H	5.34	9.91	25.38	345.14	33.00	-7.62	1/12
		2687.50	22.79	H	5.44	9.87	27.23	528.45	33.00	-5.77	1/12
	16-QAM	2498.50	19.58	H	5.23	10.00	24.35	272.27	33.00	-8.65	1/12
		2593.00	19.90	H	5.34	9.91	24.48	280.54	33.00	-8.52	1/12
		2687.50	21.79	H	5.44	9.87	26.23	419.76	33.00	-6.77	1/0

**LTE Band 41 (ANT E)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
20	QPSK	2506.00	19.59	H	5.25	9.99	24.33	271.02	33.00	-8.67	1/99
		2593.00	20.64	H	5.34	9.91	25.22	332.66	33.00	-7.78	1/0
		2680.00	20.27	H	5.43	9.87	24.71	295.80	33.00	-8.29	1/49
	16-QAM	2506.00	18.80	H	5.25	9.99	23.54	225.94	33.00	-9.46	1/49
		2593.00	19.77	H	5.34	9.91	24.35	272.27	33.00	-8.65	1/0
		2680.00	19.40	H	5.43	9.87	23.84	242.10	33.00	-9.16	1/49
15	QPSK	2503.50	18.46	H	5.24	9.99	23.21	209.41	33.00	-9.79	1/37
		2593.00	20.41	H	5.34	9.91	24.99	315.50	33.00	-8.01	1/0
		2682.50	19.99	H	5.43	9.87	24.43	277.33	33.00	-8.57	1/0
	16-QAM	2503.50	17.70	H	5.24	9.99	22.45	175.79	33.00	-10.55	1/74
		2593.00	19.64	H	5.34	9.91	24.22	264.24	33.00	-8.78	1/0
		2682.50	19.06	H	5.43	9.87	23.50	223.87	33.00	-9.50	1/0
10	QPSK	2501.00	17.72	H	5.24	10.00	22.48	177.01	33.00	-10.52	1/25
		2593.00	20.25	H	5.34	9.91	24.83	304.09	33.00	-8.17	1/0
		2685.00	20.17	H	5.43	9.87	24.61	289.07	33.00	-8.39	1/0
	16-QAM	2501.00	17.03	H	5.24	10.00	21.79	151.01	33.00	-11.21	1/0
		2593.00	19.40	H	5.34	9.91	23.98	250.03	33.00	-9.02	1/25
		2685.00	19.45	H	5.43	9.87	23.89	244.91	33.00	-9.11	1/0
5	QPSK	2498.50	16.90	H	5.23	10.00	21.67	146.89	33.00	-11.33	1/12
		2593.00	20.52	H	5.34	9.91	25.10	323.59	33.00	-7.90	1/12
		2687.50	19.61	H	5.44	9.87	24.05	254.10	33.00	-8.95	1/0
	16-QAM	2498.50	16.14	H	5.23	10.00	20.91	123.31	33.00	-12.09	1/12
		2593.00	19.55	H	5.34	9.91	24.13	258.82	33.00	-8.87	1/12
		2687.50	18.48	H	5.44	9.87	22.92	195.88	33.00	-10.08	1/12

**LTE Band 41C (UL CA, ANT B)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB	
											PCC	SCC
40	QPSK	2515.90	20.90	H	5.26	9.97	25.61	363.92	33.00	-7.39	1/99	1/0
		2593.00	19.63	H	5.34	9.91	24.21	263.63	33.00	-8.79	1/99	1/0
		2670.00	22.42	H	5.43	9.87	26.87	486.41	33.00	-6.13	1/99	1/0
	16-QAM	2515.90	19.62	H	5.26	9.97	24.33	271.02	33.00	-8.67	1/99	1/0
		2593.00	18.27	H	5.34	9.91	22.85	192.75	33.00	-10.15	1/99	1/0
		2670.00	21.81	H	5.43	9.87	26.26	422.67	33.00	-6.74	1/99	1/0

**LTE Band 41C (UL CA, ANT E)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB	
											PCC	SCC
40	QPSK	2515.90	16.08	H	5.26	9.97	20.78	119.67	33.00	-12.22	1/99	1/0
		2593.00	17.87	H	5.34	9.91	22.44	175.39	33.00	-10.56	1/99	1/0
		2670.10	17.88	H	5.43	9.87	22.32	170.61	33.00	-10.68	1/99	1/0
	16-QAM	2515.90	14.75	H	5.26	9.97	19.46	88.31	33.00	-13.54	1/99	1/0
		2593.00	16.50	H	5.34	9.91	21.08	128.23	33.00	-11.92	1/99	1/0
		2670.10	16.61	H	5.43	9.87	21.06	127.64	33.00	-11.94	1/99	1/0

**LTE Band 66 (ANT B)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
20	QPSK	1720.00	16.79	H	4.32	9.55	22.02	159.22	30.00	-7.98	1/49
		1745.00	17.28	H	4.35	9.66	22.59	181.55	30.00	-7.41	1/99
		1770.00	18.06	H	4.38	9.68	23.37	217.27	30.00	-6.63	1/0
	16-QAM	1720.00	15.93	H	4.32	9.55	21.16	130.62	30.00	-8.84	1/49
		1745.00	16.34	H	4.35	9.66	21.65	146.22	30.00	-8.35	1/49
		1770.00	17.30	H	4.38	9.68	22.61	182.39	30.00	-7.39	1/49
15	QPSK	1717.50	16.95	H	4.31	9.53	22.17	164.82	30.00	-7.83	1/0
		1745.00	17.17	H	4.35	9.66	22.48	177.01	30.00	-7.52	1/0
		1772.50	18.17	H	4.38	9.68	23.47	222.33	30.00	-6.53	1/74
	16-QAM	1717.50	16.01	H	4.31	9.53	21.23	132.74	30.00	-8.77	1/0
		1745.00	16.37	H	4.35	9.66	21.68	147.23	30.00	-8.32	1/0
		1772.50	17.38	H	4.38	9.68	22.68	185.35	30.00	-7.32	1/37
10	QPSK	1715.00	16.85	H	4.31	9.52	22.06	160.69	30.00	-7.94	1/25
		1745.00	17.38	H	4.35	9.66	22.69	185.78	30.00	-7.31	1/25
		1775.00	18.16	H	4.38	9.68	23.46	221.82	30.00	-6.54	1/25
	16-QAM	1715.00	15.94	H	4.31	9.52	21.15	130.32	30.00	-8.85	1/25
		1745.00	16.46	H	4.35	9.66	21.77	150.31	30.00	-8.23	1/25
		1775.00	17.37	H	4.38	9.68	22.67	184.93	30.00	-7.33	1/25
5	QPSK	1712.50	16.97	H	4.31	9.51	22.18	165.20	30.00	-7.82	1/12
		1745.00	17.59	H	4.35	9.66	22.90	194.98	30.00	-7.10	1/12
		1777.50	18.21	H	4.39	9.68	23.51	224.39	30.00	-6.49	1/12
	16-QAM	1712.50	16.10	H	4.31	9.51	21.31	135.21	30.00	-8.69	1/12
		1745.00	16.57	H	4.35	9.66	21.88	154.17	30.00	-8.12	1/0
		1777.50	17.33	H	4.39	9.68	22.63	183.23	30.00	-7.37	1/12
3	QPSK	1711.50	17.28	H	4.31	9.51	22.48	177.01	30.00	-7.52	1/8
		1745.00	17.92	H	4.35	9.66	23.23	210.38	30.00	-6.77	1/8
		1778.50	18.75	H	4.39	9.68	24.04	253.51	30.00	-5.96	1/8
	16-QAM	1711.50	16.29	H	4.31	9.51	21.49	140.93	30.00	-8.51	1/8
		1745.00	17.06	H	4.35	9.66	22.37	172.58	30.00	-7.63	1/8
		1778.50	17.75	H	4.39	9.68	23.04	201.37	30.00	-6.96	1/8
1.4	QPSK	1710.70	17.39	H	4.31	9.50	22.59	181.55	30.00	-7.41	1/0
		1745.00	17.91	H	4.35	9.66	23.22	209.89	30.00	-6.78	1/3
		1779.30	18.61	H	4.39	9.68	23.90	245.47	30.00	-6.10	1/5
	16-QAM	1710.70	16.48	H	4.31	9.50	21.68	147.23	30.00	-8.32	1/0
		1745.00	16.91	H	4.35	9.66	22.22	166.72	30.00	-7.78	1/3
		1779.30	17.76	H	4.39	9.68	23.05	201.84	30.00	-6.95	1/5

**LTE Band 66 (ANT E)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
20	QPSK	1720.00	18.18	H	4.32	9.55	23.41	219.28	30.00	-6.59	1/49
		1745.00	18.14	H	4.35	9.66	23.45	221.31	30.00	-6.55	1/99
		1770.00	17.76	H	4.38	9.68	23.07	202.77	30.00	-6.93	1/99
	16-QAM	1720.00	17.37	H	4.32	9.55	22.60	181.97	30.00	-7.40	1/49
		1745.00	17.50	H	4.35	9.66	22.81	190.99	30.00	-7.19	1/99
		1770.00	16.98	H	4.38	9.68	22.29	169.43	30.00	-7.71	1/99
15	QPSK	1717.50	17.70	H	4.31	9.53	22.92	195.88	30.00	-7.08	1/37
		1745.00	18.44	H	4.35	9.66	23.75	237.14	30.00	-6.25	1/0
		1772.50	18.02	H	4.38	9.68	23.32	214.78	30.00	-6.68	1/37
	16-QAM	1717.50	16.98	H	4.31	9.53	22.20	165.96	30.00	-7.80	1/37
		1745.00	17.54	H	4.35	9.66	22.85	192.75	30.00	-7.15	1/0
		1772.50	17.32	H	4.38	9.68	22.62	182.81	30.00	-7.38	1/37
10	QPSK	1715.00	17.71	H	4.31	9.52	22.92	195.88	30.00	-7.08	1/25
		1745.00	18.38	H	4.35	9.66	23.69	233.88	30.00	-6.31	1/25
		1775.00	18.18	H	4.38	9.68	23.48	222.84	30.00	-6.52	1/25
	16-QAM	1715.00	17.00	H	4.31	9.52	22.41	174.18	30.00	-7.59	1/25
		1745.00	17.68	H	4.35	9.66	22.99	199.07	30.00	-7.01	1/25
		1775.00	17.45	H	4.38	9.68	22.75	188.36	30.00	-7.25	1/25
5	QPSK	1712.50	18.04	H	4.31	9.51	23.25	211.35	30.00	-6.75	1/12
		1745.00	18.35	H	4.35	9.66	23.66	232.27	30.00	-6.34	1/12
		1777.50	18.24	H	4.39	9.68	23.54	225.94	30.00	-6.46	1/12
	16-QAM	1712.50	16.99	H	4.31	9.51	22.20	165.96	30.00	-7.80	1/12
		1745.00	17.85	H	4.35	9.66	23.16	207.01	30.00	-6.84	1/12
		1777.50	17.37	H	4.39	9.68	22.67	184.93	30.00	-7.33	1/12
3	QPSK	1711.50	17.87	H	4.31	9.51	23.07	202.77	30.00	-6.93	1/8
		1745.00	18.60	H	4.35	9.66	23.91	245.24	30.00	-6.09	1/8
		1778.50	18.24	H	4.39	9.68	23.53	225.42	30.00	-6.47	1/8
	16-QAM	1711.50	16.96	H	4.31	9.51	22.16	164.44	30.00	-7.84	1/8
		1745.00	17.69	H	4.35	9.66	23.00	199.53	30.00	-7.00	1/8
		1778.50	17.53	H	4.39	9.68	22.82	191.43	30.00	-7.18	1/8
1.4	QPSK	1710.70	17.87	H	4.31	9.50	23.07	202.77	30.00	-6.93	1/0
		1745.00	18.56	H	4.35	9.66	23.87	243.78	30.00	-6.13	1/0
		1779.30	17.90	H	4.39	9.68	23.19	208.45	30.00	-6.81	1/0
	16-QAM	1710.70	17.08	H	4.31	9.50	22.28	169.04	30.00	-7.72	1/3
		1745.00	17.68	H	4.35	9.66	22.99	199.07	30.00	-7.01	1/3
		1779.30	16.82	H	4.39	9.68	22.11	162.55	30.00	-7.89	1/3

**LTE Band 66B (UL CA, ANT B)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB	
											PCC	SCC
20	QPSK	1719.95	17.53	H	4.32	9.55	22.76	188.80	30.00	-7.24	1/49	1/0
		1745.05	17.75	H	4.35	9.66	23.07	202.77	30.00	-6.93	1/49	1/0
		1770.05	18.72	H	4.38	9.68	24.02	252.35	30.00	-5.98	1/49	1/0
	16-QAM	1719.95	16.80	H	4.32	9.55	22.03	159.59	30.00	-7.97	1/49	1/0
		1745.05	17.07	H	4.35	9.66	22.39	173.38	30.00	-7.61	1/49	1/0
		1770.05	17.78	H	4.38	9.68	23.08	203.24	30.00	-6.92	1/49	1/0

**LTE Band 66B (UL CA, ANT E)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB	
											PCC	SCC
20	QPSK	1719.95	16.77	H	4.32	9.55	22.00	158.49	30.00	-8.00	1/49	1/0
		1745.05	16.92	H	4.35	9.66	22.24	167.49	30.00	-7.76	1/49	1/0
		1770.05	17.14	H	4.38	9.68	22.45	175.79	30.00	-7.55	1/49	1/0
	16-QAM	1719.95	16.04	H	4.32	9.55	21.27	133.97	30.00	-8.73	1/49	1/0
		1745.05	16.14	H	4.35	9.66	21.46	139.96	30.00	-8.54	1/49	1/0
		1770.05	16.18	H	4.38	9.68	21.49	140.93	30.00	-8.51	1/49	1/0

**LTE Band 66C (UL CA, ANT B)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB	
											PCC	SCC
40	QPSK	1729.90	17.27	H	4.33	9.59	22.54	179.47	30.00	-7.46	1/99	1/0
		1745.00	18.19	H	4.35	9.66	23.50	223.87	30.00	-6.50	1/99	1/0
		1760.10	18.58	H	4.37	9.68	23.90	245.47	30.00	-6.10	1/99	1/0
	16-QAM	1729.90	16.60	H	4.33	9.59	21.87	153.82	30.00	-8.13	1/99	1/0
		1745.00	17.22	H	4.35	9.66	22.53	179.06	30.00	-7.47	1/99	1/0
		1760.10	17.94	H	4.37	9.68	23.26	211.84	30.00	-6.74	1/99	1/0

**LTE Band 66C (UL CA, ANT E)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB	
											PCC	SCC
40	QPSK	1729.90	15.77	H	4.33	9.59	21.03	126.77	30.00	-8.97	1/99	1/0
		1745.00	16.15	H	4.35	9.66	21.47	140.28	30.00	-8.53	1/99	1/0
		1760.10	16.34	H	4.37	9.68	21.65	146.22	30.00	-8.35	1/99	1/0
	16-QAM	1729.90	15.26	H	4.33	9.59	20.53	112.98	30.00	-9.47	1/99	1/0
		1745.00	15.48	H	4.35	9.66	20.79	119.95	30.00	-9.21	1/99	1/0
		1760.10	15.53	H	4.37	9.68	20.84	121.34	30.00	-9.16	1/99	1/0

**LTE Band 71 (ANT A+B)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB
20	QPSK	673.00	23.17	H	2.73	-1.43	19.01	79.62	34.77	-16.76	1/0
		680.50	22.81	H	2.74	-1.41	18.66	73.45	34.77	-16.11	1/0
		688.00	22.54	H	2.76	-1.39	18.40	69.18	34.77	-16.37	1/0
	16-QAM	673.00	22.13	H	2.73	-1.43	17.97	62.66	34.77	-16.80	1/0
		680.50	21.72	H	2.74	-1.41	17.57	57.15	34.77	-17.20	1/0
		688.00	21.52	H	2.76	-1.39	17.68	58.61	34.77	-17.09	1/0
15	QPSK	670.50	22.90	H	2.72	-1.44	18.74	74.82	34.77	-16.03	1/0
		680.50	22.61	H	2.74	-1.41	18.46	70.15	34.77	-16.31	1/0
		690.50	22.33	H	2.76	-1.38	18.19	65.92	34.77	-16.58	1/0
	16-QAM	670.50	21.99	H	2.72	-1.44	17.83	60.67	34.77	-16.94	1/0
		680.50	21.51	H	2.74	-1.41	17.36	54.45	34.77	-17.41	1/0
		690.50	21.20	H	2.76	-1.38	17.06	50.82	34.77	-17.71	1/0
10	QPSK	668.00	22.91	H	2.72	-1.45	18.75	74.99	34.77	-16.02	1/0
		680.50	22.62	H	2.74	-1.41	18.47	70.31	34.77	-16.30	1/0
		693.00	22.39	H	2.77	-1.37	18.25	66.83	34.77	-16.52	1/0
	16-QAM	668.00	21.90	H	2.72	-1.45	17.74	59.43	34.77	-17.03	1/0
		680.50	21.53	H	2.74	-1.41	17.38	54.70	34.77	-17.39	1/0
		693.00	21.52	H	2.77	-1.37	17.38	54.70	34.77	-17.39	1/0
5	QPSK	665.50	22.93	H	2.71	-1.45	18.76	75.16	34.77	-16.01	1/0
		680.50	22.44	H	2.74	-1.41	18.29	67.45	34.77	-16.48	1/12
		695.50	22.61	H	2.77	-1.36	18.47	70.31	34.77	-16.30	1/0
	16-QAM	665.50	21.88	H	2.71	-1.45	17.71	59.02	34.77	-17.06	1/0
		680.50	21.30	H	2.74	-1.41	17.15	51.88	34.77	-17.62	1/12
		695.50	21.44	H	2.77	-1.36	17.30	53.70	34.77	-17.47	1/0

**LTE Band 71 (ANT A)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB
20	QPSK	673.00	20.11	H	2.73	-1.43	15.95	39.36	34.77	-18.82	1/0
		680.50	19.95	H	2.74	-1.41	15.80	38.02	34.77	-18.97	1/0
		688.00	18.55	H	2.76	-1.39	14.41	27.61	34.77	-20.36	1/0
	16-QAM	673.00	19.01	H	2.73	-1.43	14.85	30.55	34.77	-19.92	1/0
		680.50	18.94	H	2.74	-1.41	14.79	30.13	34.77	-19.98	1/0
		688.00	17.51	H	2.76	-1.39	13.37	21.73	34.77	-21.40	1/0
15	QPSK	670.50	19.95	H	2.72	-1.44	15.79	37.93	34.77	-18.98	1/0
		680.50	19.70	H	2.74	-1.41	15.55	35.89	34.77	-19.22	1/0
		690.50	18.37	H	2.76	-1.38	14.23	26.49	34.77	-20.54	1/0
	16-QAM	670.50	19.21	H	2.72	-1.44	15.05	31.99	34.77	-19.72	1/0
		680.50	18.71	H	2.74	-1.41	14.56	28.58	34.77	-20.21	1/0
		690.50	17.45	H	2.76	-1.38	13.31	21.43	34.77	-21.46	1/0
10	QPSK	668.00	19.75	H	2.72	-1.45	15.59	36.22	34.77	-19.18	1/0
		680.50	19.58	H	2.74	-1.41	15.43	34.91	34.77	-19.34	1/0
		693.00	18.35	H	2.77	-1.37	14.21	26.36	34.77	-20.56	1/0
	16-QAM	668.00	18.97	H	2.72	-1.45	14.81	26.03	34.77	-19.96	1/0
		680.50	18.52	H	2.74	-1.41	14.37	27.35	34.77	-20.40	1/0
		693.00	17.32	H	2.77	-1.37	13.18	20.80	34.77	-21.59	1/0
5	QPSK	665.50	19.93	H	2.71	-1.45	15.76	37.67	34.77	-19.01	1/0
		680.50	19.59	H	2.74	-1.41	15.44	34.99	34.77	-19.33	1/12
		695.50	18.45	H	2.77	-1.36	14.31	26.98	34.77	-20.46	1/0
	16-QAM	665.50	18.98	H	2.71	-1.45	14.81	30.27	34.77	-19.96	1/0
		680.50	18.52	H	2.74	-1.41	14.37	27.35	34.77	-20.40	1/12
		695.50	17.42	H	2.77	-1.36	13.28	21.28	34.77	-21.49	1/0

**LTE Band 71 (ANT D)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB
20	QPSK	673.00	20.44	H	2.73	-1.43	16.28	42.46	34.77	-18.49	1/0
		680.50	20.62	H	2.74	-1.41	16.47	44.36	34.77	-18.30	1/0
		688.00	19.61	H	2.76	-1.39	15.47	35.24	34.77	-19.30	1/0
	16-QAM	673.00	19.64	H	2.73	-1.43	15.48	35.32	34.77	-19.29	1/0
		680.50	19.77	H	2.74	-1.41	15.62	36.48	34.77	-19.15	1/0
		688.00	18.76	H	2.76	-1.39	14.62	28.97	34.77	-20.15	1/0
15	QPSK	670.50	20.34	H	2.72	-1.44	16.18	41.50	34.77	-18.59	1/0
		680.50	20.56	H	2.74	-1.41	16.41	43.75	34.77	-18.36	1/0
		690.50	19.34	H	2.76	-1.38	15.20	33.11	34.77	-19.57	1/0
	16-QAM	670.50	19.37	H	2.72	-1.44	15.21	33.19	34.77	-19.56	1/0
		680.50	19.64	H	2.74	-1.41	15.49	35.40	34.77	-19.28	1/0
		690.50	18.41	H	2.76	-1.38	14.27	26.73	34.77	-20.50	1/0
10	QPSK	668.00	18.95	H	2.72	-1.45	14.79	30.13	34.77	-19.98	1/0
		680.50	19.08	H	2.74	-1.41	14.93	31.12	34.77	-19.84	1/0
		693.00	18.39	H	2.77	-1.37	14.25	26.61	34.77	-20.52	1/0
	16-QAM	668.00	18.81	H	2.72	-1.45	14.65	29.17	34.77	-20.12	1/25
		680.50	18.99	H	2.74	-1.41	14.84	30.48	34.77	-19.93	1/0
		693.00	18.32	H	2.77	-1.37	14.18	26.18	34.77	-20.59	1/0
5	QPSK	665.50	18.80	H	2.71	-1.45	14.63	29.04	34.77	-20.14	1/0
		680.50	19.11	H	2.74	-1.41	14.96	31.33	34.77	-19.81	1/12
		695.50	18.34	H	2.77	-1.36	14.20	26.30	34.77	-20.57	1/12
	16-QAM	665.50	18.93	H	2.71	-1.45	14.76	29.92	34.77	-20.01	1/0
		680.50	19.37	H	2.74	-1.41	15.22	33.27	34.77	-19.55	1/12
		695.50	18.31	H	2.77	-1.36	14.17	26.12	34.77	-20.60	1/0

**5G NR n7 DFT-s OFDM (ANT B)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
40	QPSK	2520.00	19.22	H	5.26	9.96	23.92	246.60	33.00	-9.08	1/107
		2535.00	19.71	H	5.28	9.93	24.37	273.53	33.00	-8.63	1/1
		2550.00	19.53	H	5.29	9.91	24.14	259.42	33.00	-8.86	1/1
	16-QAM	2520.00	18.17	H	5.26	9.96	22.87	193.64	33.00	-10.13	1/107
		2535.00	18.65	H	5.28	9.93	23.31	214.29	33.00	-9.69	1/1
		2550.00	18.61	H	5.29	9.91	23.22	209.89	33.00	-9.78	1/1
35	QPSK	2517.50	18.69	H	5.26	9.97	23.40	218.78	33.00	-9.60	1/93
		2535.00	19.20	H	5.28	9.93	23.86	243.22	33.00	-9.14	1/93
		2552.50	19.49	H	5.30	9.91	24.10	257.04	33.00	-8.90	1/1
	16-QAM	2517.50	17.64	H	5.26	9.97	22.35	171.79	33.00	-10.65	1/93
		2535.00	18.30	H	5.28	9.93	22.96	197.70	33.00	-10.04	1/93
		2552.50	18.61	H	5.30	9.91	23.22	209.89	33.00	-9.78	1/1
30	QPSK	2515.00	18.61	H	5.26	9.97	23.32	214.78	33.00	-9.68	1/158
		2535.00	19.37	H	5.28	9.93	24.03	252.93	33.00	-8.97	1/79
		2555.00	17.48	H	5.30	9.91	22.08	161.44	33.00	-10.92	1/1
	16-QAM	2515.00	17.53	H	5.26	9.97	22.24	167.49	33.00	-10.76	1/158
		2535.00	18.51	H	5.28	9.93	23.17	207.49	33.00	-9.83	1/79
		2555.00	16.33	H	5.30	9.91	20.93	123.88	33.00	-12.07	1/1
25	QPSK	2512.50	18.38	H	5.26	9.98	23.10	204.17	33.00	-9.90	1/131
		2535.00	18.75	H	5.28	9.93	23.41	219.28	33.00	-9.59	1/1
		2557.50	18.98	H	5.30	9.91	23.59	228.56	33.00	-9.41	1/1
	16-QAM	2512.50	17.30	H	5.26	9.98	22.02	159.22	33.00	-10.98	1/131
		2535.00	17.68	H	5.28	9.93	22.34	171.40	33.00	-10.66	1/1
		2557.50	17.98	H	5.30	9.91	22.59	181.55	33.00	-10.41	1/1
20	QPSK	2510.00	18.21	H	5.25	9.98	22.94	196.79	33.00	-10.06	1/104
		2535.00	18.83	H	5.28	9.93	23.49	223.36	33.00	-9.51	1/1
		2560.00	18.96	H	5.30	9.91	23.57	227.51	33.00	-9.43	1/1
	16-QAM	2510.00	17.14	H	5.25	9.98	21.87	153.82	33.00	-11.13	1/104
		2535.00	17.88	H	5.28	9.93	22.54	179.47	33.00	-10.46	1/1
		2560.00	18.00	H	5.30	9.91	22.61	182.39	33.00	-10.39	1/1
15	QPSK	2507.50	17.98	H	5.25	9.99	22.72	187.07	33.00	-10.28	1/1
		2535.00	18.67	H	5.28	9.93	23.33	215.28	33.00	-9.67	1/1
		2562.50	18.75	H	5.30	9.91	23.36	216.77	33.00	-9.64	1/1
	16-QAM	2507.50	16.87	H	5.25	9.99	21.61	144.88	33.00	-11.39	1/1
		2535.00	17.73	H	5.28	9.93	22.39	173.38	33.00	-10.61	1/1
		2562.50	17.80	H	5.30	9.91	22.41	174.18	33.00	-10.59	1/1
10	QPSK	2505.00	18.04	H	5.24	9.99	22.79	190.11	33.00	-10.21	1/50
		2535.00	18.59	H	5.28	9.93	23.25	211.35	33.00	-9.75	1/25
		2565.00	19.12	H	5.31	9.91	23.72	235.50	33.00	-9.28	1/1
	16-QAM	2505.00	17.16	H	5.24	9.99	21.91	155.24	33.00	-11.09	1/50
		2535.00	17.53	H	5.28	9.93	22.19	165.58	33.00	-10.81	1/25
		2565.00	17.92	H	5.31	9.91	22.52	178.65	33.00	-10.48	1/1
5	QPSK	2502.50	17.91	H	5.24	10.00	22.66	184.50	33.00	-10.34	1/23
		2535.00	18.49	H	5.28	9.93	23.15	206.54	33.00	-9.85	1/1
		2567.50	18.99	H	5.31	9.91	23.59	228.56	33.00	-9.41	1/12
	16-QAM	2502.50	16.95	H	5.24	10.00	21.70	147.91	33.00	-11.30	1/23
		2535.00	17.51	H	5.28	9.93	22.17	164.82	33.00	-10.83	1/1
		2567.50	18.02	H	5.31	9.91	22.62	182.81	33.00	-10.38	1/12

**5G NR n7 DFT-s OFDM (ANT E)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
40	QPSK	2520.00	18.05	H	5.26	9.96	22.75	188.36	33.00	-10.25	1/214
		2535.00	18.19	H	5.28	9.93	22.85	192.75	33.00	-10.15	1/214
		2550.00	18.27	H	5.29	9.91	22.88	194.09	33.00	-10.12	1/1
	16-QAM	2520.00	17.13	H	5.26	9.96	21.83	152.41	33.00	-11.17	1/214
		2535.00	17.21	H	5.28	9.93	21.87	153.82	33.00	-11.13	1/214
		2550.00	17.41	H	5.29	9.91	22.02	159.22	33.00	-10.98	1/1
35	QPSK	2517.50	17.67	H	5.26	9.97	22.38	172.98	33.00	-10.62	1/93
		2535.00	18.41	H	5.28	9.93	23.07	202.77	33.00	-9.93	1/186
		2552.50	18.39	H	5.30	9.91	23.00	199.53	33.00	-10.00	1/186
	16-QAM	2517.50	16.68	H	5.26	9.97	21.39	137.72	33.00	-11.61	1/93
		2535.00	17.51	H	5.28	9.93	22.17	164.82	33.00	-10.83	1/186
		2552.50	17.49	H	5.30	9.91	22.10	162.18	33.00	-10.90	1/186
30	QPSK	2515.00	17.02	H	5.26	9.97	21.73	148.94	33.00	-11.27	1/1
		2535.00	18.73	H	5.28	9.93	23.39	218.27	33.00	-9.61	1/1
		2555.00	18.59	H	5.30	9.91	23.19	208.45	33.00	-9.81	1/158
	16-QAM	2515.00	16.13	H	5.26	9.97	20.84	121.34	33.00	-12.16	1/1
		2535.00	17.75	H	5.28	9.93	22.41	174.18	33.00	-10.59	1/1
		2555.00	17.69	H	5.30	9.91	22.29	169.43	33.00	-10.71	1/158
25	QPSK	2512.50	17.58	H	5.26	9.98	22.30	169.82	33.00	-10.70	1/66
		2535.00	19.14	H	5.28	9.93	23.80	239.88	33.00	-9.20	1/1
		2557.50	19.04	H	5.30	9.91	23.65	231.74	33.00	-9.35	1/131
	16-QAM	2512.50	16.71	H	5.26	9.98	21.43	139.00	33.00	-11.57	1/66
		2535.00	18.17	H	5.28	9.93	22.83	191.87	33.00	-10.17	1/1
		2557.50	18.13	H	5.30	9.91	22.74	187.93	33.00	-10.26	1/131
20	QPSK	2510.00	17.59	H	5.25	9.98	22.32	170.61	33.00	-10.68	1/52
		2535.00	18.87	H	5.28	9.93	23.53	225.42	33.00	-9.47	1/104
		2560.00	18.49	H	5.30	9.91	23.10	204.17	33.00	-9.90	1/104
	16-QAM	2510.00	16.60	H	5.25	9.98	21.33	135.83	33.00	-11.67	1/52
		2535.00	17.81	H	5.28	9.93	22.47	176.60	33.00	-10.53	1/104
		2560.00	17.60	H	5.30	9.91	22.21	166.34	33.00	-10.79	1/104
15	QPSK	2507.50	17.03	H	5.25	9.99	21.77	150.31	33.00	-11.23	1/77
		2535.00	19.12	H	5.28	9.93	23.78	238.78	33.00	-9.22	1/77
		2562.50	18.58	H	5.30	9.91	23.19	208.45	33.00	-9.81	1/77
	16-QAM	2507.50	16.03	H	5.25	9.99	20.77	119.40	33.00	-12.23	1/77
		2535.00	18.11	H	5.28	9.93	22.77	189.23	33.00	-10.23	1/77
		2562.50	17.57	H	5.30	9.91	22.18	165.20	33.00	-10.82	1/77
10	QPSK	2505.00	16.68	H	5.24	9.99	21.43	139.00	33.00	-11.57	1/1
		2535.00	18.90	H	5.28	9.93	23.56	226.99	33.00	-9.44	1/1
		2565.00	18.29	H	5.31	9.91	22.89	194.54	33.00	-10.11	1/1
	16-QAM	2505.00	15.73	H	5.24	9.99	20.48	111.69	33.00	-12.52	1/1
		2535.00	17.77	H	5.28	9.93	22.43	174.98	33.00	-10.57	1/1
		2565.00	17.34	H	5.31	9.91	21.94	156.31	33.00	-11.06	1/1
5	QPSK	2502.50	15.00	H	5.24	10.00	19.75	94.41	33.00	-13.25	1/1
		2535.00	18.87	H	5.28	9.93	23.53	225.42	33.00	-9.47	1/12
		2567.50	18.25	H	5.31	9.91	22.85	192.75	33.00	-10.15	1/12
	16-QAM	2502.50	14.14	H	5.24	10.00	18.89	77.45	33.00	-14.11	1/1
		2535.00	17.99	H	5.28	9.93	22.65	184.08	33.00	-10.35	1/12
		2567.50	17.18	H	5.31	9.91	21.78	150.66	33.00	-11.22	1/12

**5G NR n12 DFT-s OFDM (ANT A+B)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB
15	QPSK	706.50	23.17	H	2.79	-1.34	19.04	80.17	33.00	-13.96	1/1
		707.50	23.06	H	2.79	-1.34	18.97	78.89	33.00	-14.03	1/1
		708.50	22.94	H	2.80	-1.33	18.81	76.03	33.00	-14.19	1/1
	16-QAM	706.50	22.17	H	2.79	-1.34	18.04	63.68	33.00	-14.96	1/1
		707.50	22.07	H	2.79	-1.34	17.95	62.37	33.00	-15.05	1/1
		708.50	21.93	H	2.80	-1.33	17.80	60.26	33.00	-15.20	1/1
10	QPSK	704.00	22.79	H	2.79	-1.34	18.66	73.45	33.00	-14.34	1/1
		707.50	22.58	H	2.79	-1.34	18.46	70.15	33.00	-14.54	1/1
		711.00	22.48	H	2.80	-1.33	18.35	68.39	33.00	-14.65	1/1
	16-QAM	704.00	21.71	H	2.79	-1.34	17.58	57.28	33.00	-15.42	1/1
		707.50	21.68	H	2.79	-1.34	17.56	57.02	33.00	-15.44	1/1
		711.00	21.48	H	2.80	-1.33	17.35	54.33	33.00	-15.65	1/1
5	QPSK	701.50	22.63	H	2.78	-1.35	18.50	70.79	33.00	-14.50	1/12
		707.50	22.52	H	2.79	-1.34	18.40	69.18	33.00	-14.60	1/12
		713.50	22.75	H	2.81	-1.32	18.62	72.78	33.00	-14.38	1/12
	16-QAM	701.50	21.66	H	2.78	-1.35	17.53	56.62	33.00	-15.47	1/12
		707.50	21.51	H	2.79	-1.34	17.39	54.83	33.00	-15.61	1/12
		713.50	21.72	H	2.81	-1.32	17.59	57.41	33.00	-15.41	1/12

**5G NR n12 DFT-s OFDM (ANT A)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB
15	QPSK	706.50	18.21	H	2.79	-1.34	14.08	25.59	33.00	-18.92	1/1
		707.50	18.14	H	2.79	-1.34	14.02	25.23	33.00	-18.98	1/1
		708.50	18.47	H	2.80	-1.33	14.34	27.16	33.00	-18.66	1/1
	16-QAM	706.50	17.41	H	2.79	-1.34	13.28	21.28	33.00	-19.72	1/1
		707.50	17.25	H	2.79	-1.34	13.13	20.56	33.00	-19.87	1/1
		708.50	17.91	H	2.80	-1.33	13.78	23.88	33.00	-19.22	1/1
10	QPSK	704.00	18.32	H	2.79	-1.34	14.19	26.24	33.00	-18.81	1/1
		707.50	18.15	H	2.79	-1.34	14.03	25.29	33.00	-18.97	1/1
		711.00	17.75	H	2.80	-1.33	13.62	23.01	33.00	-19.38	1/1
	16-QAM	704.00	17.02	H	2.79	-1.34	12.89	19.45	33.00	-20.11	1/1
		707.50	17.15	H	2.79	-1.34	13.03	20.09	33.00	-19.97	1/1
		711.00	16.83	H	2.80	-1.33	12.05	16.03	33.00	-20.95	1/1
5	QPSK	701.50	18.24	H	2.78	-1.35	14.11	25.76	33.00	-18.89	1/12
		707.50	18.00	H	2.79	-1.34	13.88	24.43	33.00	-19.12	1/12
		713.50	18.01	H	2.81	-1.32	13.88	24.43	33.00	-19.12	1/12
	16-QAM	701.50	16.94	H	2.78	-1.35	12.81	19.10	33.00	-20.19	1/12
		707.50	16.90	H	2.79	-1.34	12.78	18.97	33.00	-20.22	1/12
		713.50	16.95	H	2.81	-1.32	12.82	19.14	33.00	-20.18	1/12

**5G NR n12 DFT-s OFDM (ANT D)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB
15	QPSK	706.50	20.23	H	2.79	-1.34	16.10	40.74	33.00	-16.90	1/39
		707.50	20.47	H	2.79	-1.34	16.34	43.05	33.00	-16.66	1/1
		708.50	20.51	H	2.80	-1.33	16.38	43.45	33.00	-16.62	1/1
	16-QAM	706.50	19.06	H	2.79	-1.34	14.93	31.12	33.00	-18.07	1/39
		707.50	19.36	H	2.79	-1.34	15.23	33.34	33.00	-17.77	1/1
		708.50	19.48	H	2.80	-1.33	15.35	34.28	33.00	-17.65	1/1
10	QPSK	704.00	20.57	H	2.79	-1.34	16.44	44.06	33.00	-16.56	1/1
		707.50	20.85	H	2.79	-1.34	16.72	46.99	33.00	-16.28	1/1
		711.00	20.85	H	2.80	-1.33	16.72	46.99	33.00	-16.28	1/50
	16-QAM	704.00	19.13	H	2.79	-1.34	15.00	31.62	33.00	-18.00	1/1
		707.50	19.58	H	2.79	-1.34	15.45	35.08	33.00	-17.55	1/1
		711.00	19.57	H	2.80	-1.33	15.44	34.99	33.00	-17.56	1/50
5	QPSK	701.50	20.43	H	2.78	-1.35	16.30	42.66	33.00	-16.70	1/12
		707.50	20.71	H	2.79	-1.34	16.58	45.50	33.00	-16.42	1/12
		713.50	20.83	H	2.81	-1.32	16.70	46.77	33.00	-16.30	1/12
	16-QAM	701.50	19.01	H	2.78	-1.35	14.88	30.76	33.00	-18.12	1/12
		707.50	19.44	H	2.79	-1.34	15.31	33.96	33.00	-17.69	1/12
		713.50	19.65	H	2.81	-1.32	15.52	35.65	33.00	-17.48	1/12

**5G NR n30 DFT-s OFDM (ANT B)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
10	QPSK	2310.00	16.34	H	5.03	9.76	21.07	127.94	24.00	-2.93	1/1
	16QAM	2310.00	15.48	H	5.03	9.76	20.21	104.95	24.00	-3.79	1/1
5	QPSK	2307.50	16.05	H	5.02	9.75	20.77	119.40	24.00	-3.23	1/1
		2310.00	16.40	H	5.03	9.76	21.13	129.72	24.00	-2.87	1/1
		2312.50	16.83	H	5.03	9.77	21.57	143.55	24.00	-2.43	1/23
	16-QAM	2307.50	15.12	H	5.03	9.77	19.86	96.83	24.00	-4.14	1/1
		2310.00	15.71	H	5.03	9.76	20.44	110.66	24.00	-3.56	1/1
		2312.50	16.02	H	5.03	9.76	20.75	118.85	24.00	-3.25	1/23

**5G NR n30 DFT-s OFDM (ANT E)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
10	QPSK	2310.00	16.83	V	5.03	9.76	21.56	143.22	24.00	-2.44	1/1
	16QAM	2310.00	15.74	V	5.03	9.76	20.47	111.43	24.00	-3.53	1/1
5	QPSK	2307.50	16.66	V	5.02	9.75	21.39	137.72	24.00	-2.61	1/12
		2310.00	16.67	V	5.03	9.76	21.40	138.04	24.00	-2.60	1/1
		2312.50	16.58	V	5.03	9.77	21.32	135.52	24.00	-2.68	1/12
	16-QAM	2307.50	15.59	V	5.03	9.77	20.33	107.89	24.00	-3.67	1/12
		2310.00	15.80	V	5.03	9.76	20.53	112.98	24.00	-3.47	1/1
		2312.50	15.54	V	5.03	9.76	20.27	106.41	24.00	-3.73	1/12



**5G NR n41 DFT-s OFDM (SA, ANT B)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
100	QPSK	2546.01	20.75	H	5.29	9.91	25.38	345.14	33.00	-7.62	1/1
		2592.99	21.42	H	5.34	9.91	26.00	398.11	33.00	-7.00	1/1
		2640.00	20.73	H	5.39	9.88	25.21	331.89	33.00	-7.79	1/1
	16-QAM	2546.01	19.72	H	5.29	9.91	24.35	272.27	33.00	-8.65	1/1
		2592.99	20.53	H	5.34	9.91	25.11	324.34	33.00	-7.89	1/1
		2640.00	19.56	H	5.39	9.88	24.04	253.51	33.00	-8.96	1/1
90	QPSK	2541.00	21.90	H	5.28	9.92	26.54	450.82	33.00	-6.46	1/1
		2592.99	20.54	H	5.34	9.91	25.12	325.09	33.00	-7.88	1/1
		2644.98	21.20	H	5.40	9.87	25.68	369.83	33.00	-7.32	1/1
	16-QAM	2541.00	20.89	H	5.28	9.92	25.53	357.27	33.00	-7.47	1/1
		2592.99	19.23	H	5.34	9.91	23.81	240.44	33.00	-9.19	1/1
		2644.98	19.87	H	5.40	9.87	24.35	272.27	33.00	-8.65	1/1
80	QPSK	2536.02	21.67	H	5.28	9.93	26.33	429.54	33.00	-6.67	1/1
		2592.99	20.31	H	5.34	9.91	24.89	308.32	33.00	-8.11	1/1
		2649.99	21.05	H	5.41	9.87	25.51	355.63	33.00	-7.49	1/1
	16-QAM	2536.02	20.76	H	5.28	9.93	25.42	348.34	33.00	-7.58	1/1
		2592.99	19.28	H	5.34	9.91	23.86	243.22	33.00	-9.14	1/1
		2649.99	20.04	H	5.41	9.87	24.50	281.84	33.00	-8.50	1/1
70	QPSK	2531.02	21.34	H	5.28	9.94	26.01	399.02	33.00	-6.99	1/1
		2593.99	20.44	H	5.34	9.91	25.02	317.69	33.00	-7.98	1/188
		2655.00	21.41	H	5.41	9.87	25.87	386.37	33.00	-7.13	1/1
	16-QAM	2531.02	20.42	H	5.28	9.94	25.09	322.85	33.00	-7.91	1/1
		2593.99	19.24	H	5.34	9.91	23.82	240.99	33.00	-9.18	1/188
		2655.00	20.42	H	5.41	9.87	24.88	307.61	33.00	-8.12	1/1
60	QPSK	2526.00	20.94	H	5.27	9.95	25.62	364.75	33.00	-7.38	1/1
		2592.99	20.26	H	5.34	9.91	24.84	304.79	33.00	-8.16	1/160
		2659.98	21.26	H	5.41	9.87	25.71	372.39	33.00	-7.29	1/1
	16-QAM	2526.00	19.77	H	5.27	9.95	24.45	278.61	33.00	-8.55	1/1
		2592.99	19.20	H	5.34	9.91	23.78	238.78	33.00	-9.22	1/160
		2659.98	20.21	H	5.41	9.87	24.66	292.42	33.00	-8.34	1/1
50	QPSK	2521.01	20.83	H	5.26	9.96	25.53	357.27	33.00	-7.47	1/1
		2592.99	20.36	H	5.34	9.91	24.94	311.89	33.00	-8.06	1/131
		2664.99	21.59	H	5.42	9.87	26.04	401.79	33.00	-6.96	1/131
	16-QAM	2521.01	19.75	H	5.26	9.96	24.45	278.61	33.00	-8.55	1/1
		2592.99	19.34	H	5.34	9.91	23.92	246.60	33.00	-9.08	1/131
		2664.99	20.77	H	5.42	9.87	25.22	332.66	33.00	-7.78	1/131
40	QPSK	2516.01	20.35	H	5.26	9.97	25.06	320.63	33.00	-7.94	1/1
		2592.99	20.15	H	5.34	9.91	24.73	297.17	33.00	-8.27	1/104
		2670.00	21.78	H	5.43	9.87	26.23	419.76	33.00	-6.77	1/1
	16-QAM	2516.01	19.34	H	5.26	9.97	24.05	254.10	33.00	-8.95	1/1
		2592.99	19.56	H	5.34	9.91	24.14	259.42	33.00	-8.86	1/104
		2670.00	20.68	H	5.43	9.87	25.13	325.84	33.00	-7.87	1/1
30	QPSK	2511.00	20.30	H	5.25	9.98	25.03	318.42	33.00	-7.97	1/1
		2592.99	20.37	H	5.34	9.91	24.95	312.61	33.00	-8.05	1/1
		2674.98	22.09	H	5.43	9.87	26.54	450.82	33.00	-6.46	1/1
	16-QAM	2511.00	19.37	H	5.25	9.98	24.10	257.04	33.00	-8.90	1/1
		2592.99	19.24	H	5.34	9.91	23.82	240.99	33.00	-9.18	1/1
		2674.98	20.95	H	5.43	9.87	25.40	346.74	33.00	-7.60	1/1
25	QPSK	2508.51	20.40	H	5.25	9.98	25.14	326.59	33.00	-7.86	1/1
		2592.99	20.35	H	5.34	9.91	24.93	311.17	33.00	-8.07	1/1
		2677.50	22.06	H	5.43	9.87	26.50	446.68	33.00	-6.50	1/32
	16-QAM	2508.51	19.29	H	5.25	9.98	24.03	252.93	33.00	-8.97	1/1
		2592.99	19.32	H	5.34	9.91	23.90	245.47	33.00	-9.10	1/1
		2677.50	21.33	H	5.43	9.87	25.77	377.57	33.00	-7.23	1/32
20	QPSK	2506.02	20.03	H	5.25	9.99	24.77	299.92	33.00	-8.23	1/1
		2592.99	20.35	H	5.34	9.91	24.93	311.17	33.00	-8.07	1/49
		2679.99	22.15	H	5.43	9.87	26.59	456.04	33.00	-6.41	1/25
	16-QAM	2506.02	18.94	H	5.25	9.99	23.68	233.35	33.00	-9.32	1/1
		2592.99	19.15	H	5.34	9.91	23.73	236.05	33.00	-9.27	1/49
		2679.99	21.10	H	5.43	9.87	25.54	358.10	33.00	-7.46	1/25
15	QPSK	2503.50	19.99	H	5.24	9.99	24.74	297.85	33.00	-8.26	1/19
		2592.99	20.40	H	5.34	9.91	24.98	314.77	33.00	-8.02	1/36
		2682.48	22.17	H	5.43	9.87	26.61	458.14	33.00	-6.39	1/36
	16-QAM	2503.50	18.96	H	5.24	9.99	23.71	234.96	33.00	-9.29	1/19
		2592.99	19.35	H	5.34	9.91	23.93	247.17	33.00	-9.07	1/36
		2682.48	21.13	H	5.43	9.87	25.57	360.58	33.00	-7.43	1/36
10	QPSK	2501.01	20.03	H	5.24	10.00	24.79	301.30	33.00	-8.21	1/22
		2592.99	20.17	H	5.34	9.91	24.75	298.54	33.00	-8.25	1/22
		2685.00	22.36	H	5.43	9.87	26.80	478.63	33.00	-6.20	1/1
	16-QAM	2501.01	19.14	H	5.24	10.00	23.90	245.47	33.00	-9.10	1/22
		2592.99	19.27	H	5.34	9.91	23.85	242.66	33.00	-9.15	1/22
		2685.00	21.17	H	5.43	9.87	25.61	363.92	33.00	-7.39	1/1

**5G NR n41(PC2, ANT E, SRS1)**

BW (MHz)	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)
50	2521.01	19.61	H	5.26	9.96	24.31	269.77	33.00	-8.69
	2592.99	19.65	H	5.34	9.91	24.23	264.85	33.00	-8.77
	2665.00	18.06	H	5.42	9.87	22.50	177.83	33.00	-10.50

**5G NR n41(PC2, ANT C, SRS2)**

BW (MHz)	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)
10	2501.01	7.21	V	5.24	10.00	11.96	15.70	33.00	-21.04
	2592.99	10.25	V	5.34	9.91	14.83	30.41	33.00	-18.17
	2685.00	7.47	V	5.43	9.87	11.91	15.52	33.00	-21.09

**5G NR n41(PC2, ANT G, SRS3)**

BW (MHz)	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)
50	2521.01	12.81	H	5.26	9.96	17.51	56.36	33.00	-15.49
	2592.99	9.60	H	5.34	9.91	14.18	26.18	33.00	-18.82
	2665.00	7.33	H	5.42	9.87	11.78	15.07	33.00	-21.22

**5G NR n41 DFT-s OFDM (ANT E)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
100	QPSK	2546.01	20.34	V	5.29	9.91	24.96	313.33	33.00	-8.04	1/271
		2592.99	21.63	V	5.34	9.91	26.21	417.83	33.00	-6.79	1/1
		2640.00	20.60	V	5.39	9.88	25.09	322.85	33.00	-7.91	1/1
	16-QAM	2546.01	19.35	V	5.29	9.91	23.97	249.46	33.00	-9.03	1/271
		2592.99	20.81	V	5.34	9.91	25.39	345.94	33.00	-7.61	1/1
		2640.00	19.63	V	5.39	9.88	24.12	258.23	33.00	-8.88	1/1
90	QPSK	2541.00	20.53	V	5.28	9.92	25.17	328.85	33.00	-7.83	1/243
		2592.99	20.70	V	5.34	9.91	25.28	337.29	33.00	-7.72	1/123
		2644.98	20.66	V	5.40	9.87	25.14	326.59	33.00	-7.86	1/1
	16-QAM	2541.00	19.54	V	5.28	9.92	24.18	261.82	33.00	-8.82	1/243
		2592.99	19.69	V	5.34	9.91	24.27	267.30	33.00	-8.73	1/123
		2644.98	19.61	V	5.40	9.87	24.09	256.45	33.00	-8.91	1/1
80	QPSK	2536.02	20.66	V	5.28	9.93	25.31	339.63	33.00	-7.69	1/215
		2592.99	21.29	V	5.34	9.91	25.87	386.37	33.00	-7.13	1/215
		2649.99	20.63	V	5.41	9.87	25.09	322.85	33.00	-7.91	1/1
	16-QAM	2536.02	19.57	V	5.28	9.93	24.22	264.24	33.00	-8.78	1/215
		2592.99	20.42	V	5.34	9.91	25.00	316.23	33.00	-8.00	1/215
		2649.99	19.37	V	5.41	9.87	23.83	241.55	33.00	-9.17	1/1
70	QPSK	2531.02	20.59	V	5.28	9.94	25.26	335.74	33.00	-7.74	1/188
		2593.99	20.59	V	5.34	9.91	25.17	328.85	33.00	-7.83	1/95
		2655.00	18.97	V	5.41	9.87	23.43	220.29	33.00	-9.57	1/1
	16-QAM	2531.02	19.72	V	5.28	9.94	24.39	274.79	33.00	-8.61	1/188
		2593.99	19.59	V	5.34	9.91	24.17	261.22	33.00	-8.83	1/95
		2655.00	18.14	V	5.41	9.87	22.60	181.97	33.00	-10.40	1/1
60	QPSK	2526.00	20.70	V	5.27	9.95	25.38	345.14	33.00	-7.62	1/160
		2592.99	21.00	V	5.34	9.91	25.58	361.41	33.00	-7.42	1/1
		2659.98	19.32	V	5.41	9.87	23.78	238.78	33.00	-9.22	1/1
	16-QAM	2526.00	19.67	V	5.27	9.95	24.35	272.27	33.00	-8.65	1/160
		2592.99	19.96	V	5.34	9.91	24.54	284.45	33.00	-8.46	1/1
		2659.98	18.63	V	5.41	9.87	23.09	203.70	33.00	-9.91	1/1
50	QPSK	2521.01	21.27	V	5.26	9.96	25.97	395.37	33.00	-7.03	1/131
		2592.99	21.15	V	5.34	9.91	25.73	374.11	33.00	-7.27	1/131
		2664.99	19.82	V	5.42	9.87	24.27	267.30	33.00	-8.73	1/1
	16-QAM	2521.01	20.14	V	5.26	9.96	24.84	304.79	33.00	-8.16	1/131
		2592.99	20.15	V	5.34	9.91	24.73	297.17	33.00	-8.27	1/131
		2664.99	18.86	V	5.42	9.87	23.31	214.29	33.00	-9.69	1/1
40	QPSK	2516.01	20.92	V	5.26	9.97	25.63	365.59	33.00	-7.37	1/104
		2592.99	21.05	V	5.34	9.91	25.63	365.59	33.00	-7.37	1/104
		2670.00	19.88	V	5.43	9.87	24.33	271.02	33.00	-8.67	1/1
	16-QAM	2516.01	19.85	V	5.26	9.97	24.56	285.76	33.00	-8.44	1/104
		2592.99	20.07	V	5.34	9.91	24.65	291.74	33.00	-8.35	1/104
		2670.00	18.96	V	5.43	9.87	23.41	219.28	33.00	-9.59	1/1
30	QPSK	2511.00	19.78	V	5.25	9.98	24.51	282.49	33.00	-8.49	1/76
		2592.99	20.47	V	5.34	9.91	25.05	319.89	33.00	-7.95	1/1
		2674.98	20.04	V	5.43	9.87	24.49	281.19	33.00	-8.51	1/1
	16-QAM	2511.00	18.75	V	5.25	9.98	23.48	222.84	33.00	-9.52	1/76
		2592.99	19.35	V	5.34	9.91	23.93	247.17	33.00	-9.07	1/1
		2674.98	18.82	V	5.43	9.87	23.27	212.32	33.00	-9.73	1/1
25	QPSK	2508.51	19.68	V	5.25	9.98	24.42	276.69	33.00	-8.58	1/32
		2592.99	20.44	V	5.34	9.91	25.02	317.69	33.00	-7.98	1/1
		2677.50	20.01	V	5.43	9.87	24.45	278.61	33.00	-8.55	1/32
	16-QAM	2508.51	18.66	V	5.25	9.98	23.40	218.78	33.00	-9.60	1/32
		2592.99	19.34	V	5.34	9.91	23.92	246.60	33.00	-9.08	1/1
		2677.50	18.99	V	5.43	9.87	23.43	220.29	33.00	-9.57	1/32
20	QPSK	2506.02	19.52	V	5.25	9.99	24.26	266.69	33.00	-8.74	1/25
		2592.99	20.14	V	5.34	9.91	24.72	296.48	33.00	-8.28	1/25
		2679.99	20.02	V	5.43	9.87	24.46	279.25	33.00	-8.54	1/25
	16-QAM	2506.02	18.46	V	5.25	9.99	23.20	208.93	33.00	-9.80	1/25
		2592.99	19.09	V	5.34	9.91	23.67	232.81	33.00	-9.33	1/25
		2679.99	19.03	V	5.43	9.87	23.47	222.33	33.00	-9.53	1/25
15	QPSK	2503.50	19.10	V	5.24	9.99	23.85	242.66	33.00	-9.15	1/36
		2592.99	20.22	V	5.34	9.91	24.80	302.00	33.00	-8.20	1/1
		2682.48	20.23	V	5.43	9.87	24.65	291.74	33.00	-8.35	1/1
	16-QAM	2503.50	18.25	V	5.24	9.99	23.00	199.53	33.00	-10.00	1/36
		2592.99	19.35	V	5.34	9.91	23.93	247.17	33.00	-9.07	1/1
		2682.48	19.19	V	5.43	9.87	23.64	231.21	33.00	-9.36	1/1
10	QPSK	2501.01	18.14	V	5.24	10.00	22.90	194.98	33.00	-10.10	1/1
		2592.99	20.28	V	5.34	9.91	24.86	306.20	33.00	-8.14	1/1
		2685.00	20.22	V	5.43	9.87	24.66	292.42	33.00	-8.34	1/1
	16-QAM	2501.01	17.31	V	5.24	10.00	22.07	161.06	33.00	-10.93	1/1
		2592.99	19.15	V	5.34	9.91	23.73	236.05	33.00	-9.27	1/1
		2685.00	19.17	V	5.43	9.87	23.61	229.61	33.00	-9.39	1/1

**5G NR n41(PC2, ANT B, SRS1)**

BW (MHz)	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)
50	2521.01	18.25	V	5.26	9.96	22.95	197.24	33.00	-10.05
	2592.99	17.55	V	5.34	9.91	22.13	163.31	33.00	-10.87
	2664.99	16.98	V	5.42	9.87	21.43	139.00	33.00	-11.57

**5G NR n41(PC2, ANT G, SRS2)**

BW (MHz)	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)
50	2521.01	13.15	H	5.26	9.96	17.85	60.95	33.00	-15.15
	2592.99	9.45	H	5.34	9.91	14.03	25.29	33.00	-18.97
	2665.00	9.34	H	5.42	9.87	13.79	23.93	33.00	-19.21

**5G NR n41(PC2, ANT C, SRS3)**

BW (MHz)	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)
10	2501.01	5.32	V	5.24	10.00	10.08	10.19	33.00	-22.92
	2592.99	10.02	V	5.34	9.91	14.60	28.84	33.00	-18.40
	2685.00	8.83	V	5.43	9.87	13.27	21.23	33.00	-19.73

**5G NR n66 DFT-s OFDM (ANT B)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
40	QPSK	1730.00	18.86	H	4.33	9.59	24.13	258.82	30.00	-5.87	1/1
		1745.00	19.15	H	4.35	9.66	24.46	279.25	30.00	-5.54	1/1
		1760.00	18.84	H	4.37	9.68	24.15	260.02	30.00	-5.85	1/214
	16-QAM	1730.00	17.91	H	4.33	9.59	23.18	207.97	30.00	-6.82	1/1
		1745.00	18.20	H	4.35	9.66	23.51	224.39	30.00	-6.49	1/1
		1760.00	17.71	H	4.37	9.68	23.02	200.45	30.00	-6.98	1/214
35	QPSK	1727.50	18.59	H	4.33	9.58	23.84	242.10	30.00	-6.16	1/1
		1745.00	18.93	H	4.35	9.66	24.24	265.46	30.00	-5.76	1/1
		1762.50	19.35	H	4.37	9.68	24.66	292.42	30.00	-5.34	1/93
	16-QAM	1727.50	17.54	H	4.33	9.58	22.79	190.11	30.00	-7.21	1/1
		1745.00	17.86	H	4.35	9.66	23.17	207.49	30.00	-6.83	1/1
		1762.50	18.31	H	4.37	9.68	23.62	230.14	30.00	-6.38	1/93
30	QPSK	1725.00	19.08	H	4.32	9.57	24.33	271.02	30.00	-5.67	1/49
		1745.00	18.86	H	4.35	9.66	24.17	261.22	30.00	-5.83	1/1
		1765.00	19.25	H	4.37	9.68	24.56	285.76	30.00	-5.44	1/158
	16-QAM	1725.00	18.10	H	4.32	9.57	23.35	216.27	30.00	-6.65	1/49
		1745.00	17.76	H	4.35	9.66	23.07	202.77	30.00	-6.93	1/1
		1765.00	18.34	H	4.37	9.68	23.65	231.74	30.00	-6.35	1/158
25	QPSK	1722.50	18.89	H	4.32	9.56	24.13	258.82	30.00	-5.87	1/1
		1745.00	18.95	H	4.35	9.66	24.26	266.69	30.00	-5.74	1/1
		1767.50	19.08	H	4.38	9.68	24.39	274.79	30.00	-5.61	1/131
	16-QAM	1722.50	17.89	H	4.32	9.56	23.13	205.59	30.00	-6.87	1/1
		1745.00	18.03	H	4.35	9.66	23.34	215.77	30.00	-6.66	1/1
		1767.50	18.12	H	4.38	9.68	23.43	220.29	30.00	-6.57	1/131
20	QPSK	1720.00	18.60	H	4.32	9.55	23.83	241.55	30.00	-6.17	1/52
		1745.00	18.46	H	4.35	9.66	23.77	238.23	30.00	-6.23	1/1
		1770.00	19.26	H	4.38	9.68	24.57	286.42	30.00	-5.43	1/104
	16-QAM	1720.00	17.69	H	4.32	9.55	22.92	195.88	30.00	-7.08	1/52
		1745.00	17.51	H	4.35	9.66	22.82	191.43	30.00	-7.18	1/1
		1770.00	18.34	H	4.38	9.68	23.65	231.74	30.00	-6.35	1/104
15	QPSK	1717.50	18.75	H	4.31	9.53	23.97	249.46	30.00	-6.03	1/1
		1745.00	18.96	H	4.35	9.66	24.27	267.30	30.00	-5.73	1/1
		1772.50	19.27	H	4.38	9.68	24.57	286.42	30.00	-5.43	1/39
	16-QAM	1717.50	17.72	H	4.31	9.53	22.94	196.79	30.00	-7.06	1/1
		1745.00	17.76	H	4.35	9.66	23.07	202.77	30.00	-6.93	1/1
		1772.50	18.29	H	4.38	9.68	23.59	228.56	30.00	-6.41	1/39
10	QPSK	1715.00	18.79	H	4.31	9.52	24.00	251.19	30.00	-6.00	1/1
		1745.00	18.90	H	4.35	9.66	24.21	263.63	30.00	-5.79	1/50
		1775.00	19.25	H	4.38	9.68	24.55	285.10	30.00	-5.45	1/50
	16-QAM	1715.00	17.69	H	4.31	9.52	22.90	194.98	30.00	-7.10	1/1
		1745.00	17.71	H	4.35	9.66	23.02	200.45	30.00	-6.98	1/50
		1775.00	18.26	H	4.38	9.68	23.56	226.99	30.00	-6.44	1/50
5	QPSK	1712.50	18.50	H	4.31	9.51	23.71	234.96	30.00	-6.29	1/12
		1745.00	18.90	H	4.35	9.66	24.21	263.63	30.00	-5.79	1/12
		1777.50	18.93	H	4.39	9.68	24.23	264.85	30.00	-5.77	1/12
	16-QAM	1712.50	17.50	H	4.31	9.51	22.71	186.64	30.00	-7.29	1/12
		1745.00	17.74	H	4.35	9.66	23.05	201.84	30.00	-6.95	1/12
		1777.50	17.83	H	4.39	9.68	23.13	205.59	30.00	-6.87	1/12

**5G NR n66 DFT-s OFDM (ANT E)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB	
40	QPSK	1730.00	17.75	H	4.33	9.59	23.02	200.45	30.00	-6.98	1/1	
		1745.00	16.99	H	4.35	9.66	22.30	169.82	30.00	-7.70	1/214	
		1760.00	17.26	H	4.37	9.68	22.57	180.72	30.00	-7.43	1/214	
	16-QAM	1730.00	16.69	H	4.33	9.59	21.96	157.04	30.00	30.00	-8.04	1/1
		1745.00	15.96	H	4.35	9.66	21.27	133.97	30.00	30.00	-8.73	1/214
		1760.00	16.29	H	4.37	9.68	21.60	144.54	30.00	30.00	-8.40	1/214
35	QPSK	1727.50	17.04	H	4.33	9.58	22.29	169.43	30.00	-7.71	1/93	
		1745.00	17.73	H	4.35	9.66	23.04	201.37	30.00	-6.96	1/186	
		1762.50	17.68	H	4.37	9.68	22.99	199.07	30.00	-7.01	1/186	
	16-QAM	1727.50	16.16	H	4.33	9.58	21.41	138.36	30.00	30.00	-8.59	1/93
		1745.00	16.70	H	4.35	9.66	22.01	158.85	30.00	30.00	-7.99	1/186
		1762.50	16.65	H	4.37	9.68	21.96	157.04	30.00	30.00	-8.04	1/186
30	QPSK	1725.00	17.78	H	4.32	9.57	23.03	200.91	30.00	-6.97	1/1	
		1745.00	17.14	H	4.35	9.66	22.45	175.79	30.00	-7.55	1/158	
		1765.00	17.37	H	4.37	9.68	22.68	185.35	30.00	-7.32	1/158	
	16-QAM	1725.00	16.82	H	4.32	9.57	22.07	161.06	30.00	30.00	-7.93	1/1
		1745.00	16.22	H	4.35	9.66	21.53	142.23	30.00	30.00	-8.47	1/158
		1765.00	16.38	H	4.37	9.68	21.69	147.57	30.00	30.00	-8.31	1/158
25	QPSK	1722.50	18.13	H	4.32	9.56	23.37	217.27	30.00	-6.63	1/1	
		1745.00	17.83	H	4.35	9.66	23.14	206.06	30.00	-6.86	1/131	
		1767.50	17.67	H	4.38	9.68	22.98	198.61	30.00	-7.02	1/131	
	16-QAM	1722.50	17.02	H	4.32	9.56	22.26	168.27	30.00	30.00	-7.74	1/1
		1745.00	16.88	H	4.35	9.66	22.19	165.58	30.00	30.00	-7.81	1/131
		1767.50	16.66	H	4.38	9.68	21.97	157.40	30.00	30.00	-8.03	1/131
20	QPSK	1720.00	17.64	H	4.32	9.55	22.87	193.64	30.00	-7.13	1/52	
		1745.00	17.39	H	4.35	9.66	22.70	186.21	30.00	-7.30	1/104	
		1770.00	17.61	H	4.38	9.68	22.92	195.88	30.00	-7.08	1/104	
	16-QAM	1720.00	16.60	H	4.32	9.55	21.83	152.41	30.00	30.00	-8.17	1/52
		1745.00	16.48	H	4.35	9.66	21.79	151.01	30.00	30.00	-8.21	1/104
		1770.00	16.55	H	4.38	9.68	21.86	153.46	30.00	30.00	-8.14	1/104
15	QPSK	1717.50	18.04	H	4.31	9.53	21.26	133.66	30.00	-8.74	1/1	
		1745.00	17.67	H	4.35	9.66	22.98	198.61	30.00	-7.02	1/77	
		1772.50	17.73	H	4.38	9.68	23.03	200.91	30.00	-6.97	1/77	
	16-QAM	1717.50	16.96	H	4.31	9.53	22.18	165.20	30.00	30.00	-7.82	1/1
		1745.00	16.74	H	4.35	9.66	22.05	160.32	30.00	30.00	-7.95	1/77
		1772.50	16.74	H	4.38	9.68	22.04	159.96	30.00	30.00	-7.96	1/77
10	QPSK	1715.00	17.64	H	4.31	9.52	22.85	192.75	30.00	-7.15	1/25	
		1745.00	17.62	H	4.35	9.66	22.93	196.34	30.00	-7.07	1/25	
		1775.00	17.33	H	4.38	9.68	22.63	183.23	30.00	-7.37	1/25	
	16-QAM	1715.00	16.70	H	4.31	9.52	21.91	155.24	30.00	30.00	-8.09	1/25
		1745.00	16.68	H	4.35	9.66	21.99	158.12	30.00	30.00	-8.01	1/25
		1775.00	16.32	H	4.38	9.68	21.62	145.21	30.00	30.00	-8.38	1/25
5	QPSK	1712.50	17.65	H	4.31	9.51	22.86	193.20	30.00	-7.14	1/12	
		1745.00	16.76	H	4.35	9.66	22.07	161.06	30.00	-7.93	1/23	
		1777.50	16.51	H	4.39	9.68	21.81	151.71	30.00	-8.19	1/23	
	16-QAM	1712.50	16.58	H	4.31	9.51	21.79	151.01	30.00	30.00	-8.21	1/12
		1745.00	16.04	H	4.35	9.66	21.35	136.46	30.00	30.00	-8.65	1/23
		1777.50	15.60	H	4.39	9.68	20.90	123.03	30.00	30.00	-9.10	1/23

**5G NR n70 DFT-s OFDM (ANT B)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
15	QPSK	1702.50	17.78	H	4.30	9.47	22.95	197.24	30.00	-7.05	1/1
	16-QAM	1702.50	16.78	H	4.30	9.47	21.95	156.68	30.00	-8.05	1/1
10	QPSK	1700.00	17.84	H	4.30	9.45	23.00	199.53	30.00	-7.00	1/1
		1702.50	17.80	H	4.30	9.47	22.97	198.15	30.00	-7.03	1/1
		1705.00	17.66	H	4.30	9.48	22.84	192.31	30.00	-7.16	1/1
	16-QAM	1700.00	16.85	H	4.30	9.45	22.01	158.85	30.00	-7.99	1/1
		1702.50	16.74	H	4.30	9.47	21.91	155.24	30.00	-8.09	1/1
		1705.00	16.69	H	4.30	9.48	21.87	153.82	30.00	-8.13	1/1
5	QPSK	1697.50	17.77	H	4.29	9.44	22.92	195.88	30.00	-7.08	1/1
		1702.50	17.59	H	4.30	9.47	22.76	188.80	30.00	-7.24	1/1
		1707.50	17.66	H	4.30	9.49	22.84	192.31	30.00	-7.16	1/12
	16-QAM	1697.50	16.83	H	4.29	9.44	21.98	157.76	30.00	-8.02	1/1
		1702.50	16.73	H	4.30	9.47	21.90	154.88	30.00	-8.10	1/1
		1707.50	16.63	H	4.30	9.49	21.81	151.71	30.00	-8.19	1/12

**5G NR n70 DFT-s OFDM (ANT E)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
15	QPSK	1702.50	17.39	H	4.30	9.47	22.56	180.30	30.00	-7.44	1/1
	16-QAM	1702.50	16.34	H	4.30	9.47	21.51	141.58	30.00	-8.49	1/1
10	QPSK	1700.00	17.38	H	4.30	9.45	22.54	179.47	30.00	-7.46	1/1
		1702.50	17.50	H	4.30	9.47	22.67	184.93	30.00	-7.33	1/25
		1705.00	17.19	H	4.30	9.48	22.37	172.58	30.00	-7.63	1/1
	16-QAM	1700.00	16.47	H	4.30	9.45	21.63	145.55	30.00	-8.37	1/1
		1702.50	16.52	H	4.30	9.47	21.69	147.57	30.00	-8.31	1/25
		1705.00	16.22	H	4.30	9.48	21.40	138.04	30.00	-8.60	1/1
5	QPSK	1697.50	17.33	H	4.29	9.44	22.48	177.01	30.00	-7.52	1/12
		1702.50	16.75	H	4.30	9.47	21.92	155.60	30.00	-8.08	1/12
		1707.50	16.76	H	4.30	9.49	21.94	156.31	30.00	-8.06	1/1
	16-QAM	1697.50	16.50	H	4.29	9.44	21.65	146.22	30.00	-8.35	1/12
		1702.50	15.70	H	4.30	9.47	20.87	122.18	30.00	-9.13	1/12
		1707.50	15.77	H	4.30	9.49	20.95	124.45	30.00	-9.05	1/1

**5G NR n71 DFT-s OFDM (ANT A+B)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB
20	QPSK	673.00	22.17	H	2.73	-1.43	18.01	63.24	34.77	-16.76	1/52
		680.50	22.29	H	2.74	-1.41	18.14	65.16	34.77	-16.63	1/52
		688.00	22.16	H	2.76	-1.39	18.02	63.39	34.77	-16.75	1/1
	16-QAM	673.00	21.15	H	2.73	-1.43	16.99	50.00	34.77	-17.78	1/52
		680.50	21.36	H	2.74	-1.41	17.21	52.60	34.77	-17.56	1/52
		688.00	21.15	H	2.76	-1.39	17.01	50.23	34.77	-17.76	1/1
15	QPSK	670.50	22.31	H	2.72	-1.44	18.15	65.31	34.77	-16.62	1/1
		680.50	22.08	H	2.74	-1.41	17.93	62.09	34.77	-16.84	1/1
		690.50	22.19	H	2.76	-1.38	18.05	63.83	34.77	-16.72	1/1
	16-QAM	670.50	21.25	H	2.72	-1.44	17.09	51.17	34.77	-17.68	1/1
		680.50	21.06	H	2.74	-1.41	16.91	49.09	34.77	-17.86	1/1
		690.50	21.21	H	2.76	-1.38	17.07	50.93	34.77	-17.70	1/1
10	QPSK	668.00	22.03	H	2.72	-1.45	17.87	61.24	34.77	-16.90	1/50
		680.50	22.43	H	2.74	-1.41	18.28	67.30	34.77	-16.49	1/25
		693.00	22.40	H	2.77	-1.37	18.26	66.99	34.77	-16.51	1/1
	16-QAM	668.00	20.86	H	2.72	-1.45	16.70	46.77	34.77	-18.07	1/50
		680.50	21.40	H	2.74	-1.41	17.25	53.09	34.77	-17.52	1/25
		693.00	21.29	H	2.77	-1.37	17.15	51.88	34.77	-17.62	1/1
5	QPSK	665.50	22.21	H	2.71	-1.45	18.04	63.68	34.77	-16.73	1/12
		680.50	22.12	H	2.74	-1.41	17.97	62.66	34.77	-16.80	1/1
		695.50	21.98	H	2.77	-1.36	17.84	60.81	34.77	-16.93	1/1
	16-QAM	665.50	21.21	H	2.71	-1.45	17.04	50.58	34.77	-17.73	1/12
		680.50	21.02	H	2.74	-1.41	16.87	48.64	34.77	-17.90	1/1
		695.50	20.78	H	2.77	-1.36	16.64	46.13	34.77	-18.13	1/1

**5G NR n71 DFT-s OFDM (ANT A)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB
20	QPSK	673.00	19.55	H	2.73	-1.43	15.39	34.59	34.77	-19.38	1/52
		680.50	19.21	H	2.74	-1.41	15.06	32.06	34.77	-19.71	1/52
		688.00	18.07	H	2.76	-1.39	13.93	24.72	34.77	-20.84	1/1
	16-QAM	673.00	18.24	H	2.73	-1.43	14.08	25.59	34.77	-20.69	1/52
		680.50	18.18	H	2.74	-1.41	14.03	25.29	34.77	-20.74	1/52
		688.00	16.96	H	2.76	-1.39	12.82	19.14	34.77	-21.95	1/1
15	QPSK	670.50	19.29	H	2.72	-1.44	15.13	32.58	34.77	-19.64	1/1
		680.50	19.00	H	2.74	-1.41	14.85	30.55	34.77	-19.92	1/1
		690.50	17.75	H	2.76	-1.38	13.61	22.96	34.77	-21.16	1/1
	16-QAM	670.50	18.07	H	2.72	-1.44	13.91	24.60	34.77	-20.86	1/1
		680.50	17.90	H	2.74	-1.41	13.75	23.71	34.77	-21.02	1/1
		690.50	16.75	H	2.76	-1.38	12.61	18.24	34.77	-22.16	1/1
10	QPSK	668.00	19.05	H	2.72	-1.45	14.89	30.83	34.77	-19.88	1/50
		680.50	18.88	H	2.74	-1.41	17.73	59.29	34.77	-17.04	1/25
		693.00	17.87	H	2.77	-1.37	13.73	23.60	34.77	-21.04	1/1
	16-QAM	668.00	17.82	H	2.72	-1.45	13.66	23.23	34.77	-21.11	1/50
		680.50	17.79	H	2.74	-1.41	13.64	23.12	34.77	-21.13	1/25
		693.00	16.71	H	2.77	-1.37	12.57	18.07	34.77	-22.20	1/1
5	QPSK	665.50	18.90	H	2.71	-1.45	14.73	29.72	34.77	-20.04	1/12
		680.50	18.97	H	2.74	-1.41	14.82	30.34	34.77	-19.95	1/1
		695.50	17.79	H	2.77	-1.36	13.65	23.17	34.77	-21.12	1/1
	16-QAM	665.50	17.82	H	2.71	-1.45	13.65	23.17	34.77	-21.12	1/12
		680.50	17.82	H	2.74	-1.41	13.67	23.28	34.77	-21.10	1/1
		695.50	16.67	H	2.77	-1.36	12.53	17.91	34.77	-22.24	1/1

**5G NR n71 DFT-s OFDM (ANT D)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB
20	QPSK	673.00	19.94	H	2.73	-1.43	15.78	37.84	34.77	-18.99	1/104
		680.50	20.05	H	2.74	-1.41	15.90	38.90	34.77	-18.87	1/52
		688.00	20.30	H	2.76	-1.39	16.15	41.21	34.77	-18.62	1/1
	16-QAM	673.00	18.63	H	2.73	-1.43	14.47	27.99	34.77	-20.30	1/104
		680.50	18.97	H	2.74	-1.41	14.82	30.34	34.77	-19.95	1/52
		688.00	19.22	H	2.76	-1.39	15.07	32.14	34.77	-19.70	1/1
15	QPSK	670.50	20.63	H	2.72	-1.44	16.47	44.36	34.77	-18.30	1/1
		680.50	20.66	H	2.74	-1.41	16.51	44.77	34.77	-18.26	1/1
		690.50	20.71	H	2.76	-1.38	16.57	45.39	34.77	-18.20	1/1
	16-QAM	670.50	19.30	H	2.72	-1.44	15.14	32.66	34.77	-19.63	1/1
		680.50	19.79	H	2.74	-1.41	15.64	36.64	34.77	-19.13	1/1
		690.50	19.71	H	2.76	-1.38	15.57	36.06	34.77	-19.20	1/1
10	QPSK	668.00	20.46	H	2.72	-1.45	16.30	42.66	34.77	-18.47	1/1
		680.50	20.74	H	2.74	-1.41	16.59	45.60	34.77	-18.18	1/1
		693.00	20.52	H	2.77	-1.37	16.38	43.45	34.77	-18.39	1/1
	16-QAM	668.00	19.09	H	2.72	-1.45	14.93	31.12	34.77	-19.84	1/1
		680.50	19.73	H	2.74	-1.41	15.58	36.14	34.77	-19.19	1/1
		693.00	19.46	H	2.77	-1.37	15.32	34.04	34.77	-19.45	1/1
5	QPSK	665.50	20.26	H	2.71	-1.45	16.10	40.74	34.77	-18.67	1/12
		680.50	20.66	H	2.74	-1.41	15.51	35.56	34.77	-19.26	1/1
		695.50	20.48	H	2.77	-1.36	16.35	43.15	34.77	-18.42	1/1
	16-QAM	665.50	18.93	H	2.71	-1.45	14.77	29.99	34.77	-20.00	1/12
		680.50	19.72	H	2.74	-1.41	15.57	36.06	34.77	-19.20	1/1
		695.50	19.43	H	2.77	-1.36	15.30	33.88	34.77	-19.47	1/1



**5G NR n77 DFT-s OFDM (PC2, 3450-3550 MHz, ANT E)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
100	QPSK	3499.98	20.86	H	6.21	10.67	25.32	340.41	30.00	-4.68	1/137
	16-QAM	3499.98	19.90	H	6.21	10.67	24.36	272.90	30.00	-5.64	1/137
90	QPSK	3495.00	20.54	H	6.21	10.66	24.99	315.50	30.00	-5.01	1/1
		3499.98	20.87	H	6.21	10.67	25.33	341.19	30.00	-4.67	1/1
		3504.99	20.89	H	6.21	10.68	25.36	343.56	30.00	-4.64	1/1
	16-QAM	3495.00	19.70	H	6.21	10.66	24.15	260.02	30.00	-5.85	1/1
		3499.98	19.87	H	6.21	10.67	24.33	271.02	30.00	-5.67	1/1
		3504.99	19.97	H	6.21	10.68	24.44	277.97	30.00	-5.56	1/1
80	QPSK	3490.02	20.73	H	6.20	10.66	25.19	330.37	30.00	-4.81	1/1
		3499.98	20.79	H	6.21	10.67	25.25	334.97	30.00	-4.75	1/1
		3510.00	20.82	H	6.22	10.69	25.28	337.29	30.00	-4.72	1/1
	16-QAM	3490.02	19.66	H	6.20	10.66	24.12	258.23	30.00	-5.88	1/1
		3499.98	19.85	H	6.21	10.67	24.31	269.77	30.00	-5.69	1/1
		3510.00	19.99	H	6.22	10.69	24.45	278.61	30.00	-5.55	1/1
70	QPSK	3485.01	20.59	H	6.20	10.65	25.04	319.15	30.00	-4.96	1/1
		3499.98	20.86	H	6.21	10.67	25.32	340.41	30.00	-4.68	1/1
		3514.98	20.88	H	6.22	10.70	25.35	342.77	30.00	-4.65	1/1
	16-QAM	3485.01	19.72	H	6.20	10.65	24.17	261.22	30.00	-5.83	1/1
		3499.98	19.99	H	6.21	10.67	24.45	278.61	30.00	-5.55	1/1
		3514.98	19.90	H	6.22	10.70	24.37	273.53	30.00	-5.63	1/1
60	QPSK	3480.00	20.29	H	6.19	10.65	24.75	298.54	30.00	-5.25	1/1
		3499.98	20.77	H	6.21	10.67	25.23	333.43	30.00	-4.77	1/1
		3519.99	20.54	H	6.23	10.71	25.02	317.69	30.00	-4.98	1/1
	16-QAM	3480.00	19.52	H	6.19	10.65	23.98	250.03	30.00	-6.02	1/1
		3499.98	19.72	H	6.21	10.67	24.18	261.82	30.00	-5.82	1/1
		3514.98	19.68	H	6.23	10.71	24.16	260.62	30.00	-5.84	1/1
50	QPSK	3475.02	20.83	H	6.18	10.64	25.29	338.06	30.00	-4.71	1/1
		3499.98	20.92	H	6.21	10.67	25.38	345.14	30.00	-4.62	1/1
		3525.00	20.87	H	6.23	10.71	25.35	342.77	30.00	-4.65	1/1
	16-QAM	3475.02	19.82	H	6.18	10.64	24.28	267.92	30.00	-5.72	1/1
		3499.98	20.07	H	6.21	10.67	24.53	283.79	30.00	-5.47	1/1
		3525.00	20.00	H	6.23	10.71	24.48	280.54	30.00	-5.52	1/1
40	QPSK	3470.01	20.84	H	6.18	10.63	25.29	338.06	30.00	-4.71	1/1
		3499.98	20.92	H	6.21	10.67	25.38	345.14	30.00	-4.62	1/1
		3529.98	20.75	H	6.23	10.72	25.23	333.43	30.00	-4.77	1/1
	16-QAM	3470.01	19.91	H	6.18	10.63	24.36	272.90	30.00	-5.64	1/1
		3499.98	20.03	H	6.21	10.67	24.49	281.19	30.00	-5.51	1/1
		3529.98	19.72	H	6.23	10.72	24.20	263.03	30.00	-5.80	1/1
30	QPSK	3465.00	21.05	H	6.17	10.63	25.50	354.81	30.00	-4.50	1/1
		3499.98	21.35	H	6.21	10.67	25.81	381.07	30.00	-4.19	1/1
		3535.02	21.15	H	6.24	10.73	25.64	366.44	30.00	-4.36	1/1
	16-QAM	3465.00	20.12	H	6.17	10.63	24.57	286.42	30.00	-5.43	1/1
		3499.98	20.26	H	6.21	10.67	24.72	296.48	30.00	-5.28	1/1
		3535.02	20.02	H	6.24	10.73	24.52	283.14	30.00	-5.48	1/1
25	QPSK	3462.51	21.12	H	6.17	10.62	25.58	361.41	30.00	-4.42	1/1
		3499.98	21.41	H	6.21	10.67	25.87	386.37	30.00	-4.13	1/1
		3537.48	21.25	H	6.24	10.74	25.75	375.84	30.00	-4.25	1/1
	16-QAM	3462.51	20.03	H	6.17	10.62	24.49	281.19	30.00	-5.51	1/1
		3499.98	20.45	H	6.21	10.67	24.91	309.74	30.00	-5.09	1/1
		3537.48	20.39	H	6.24	10.74	24.89	308.32	30.00	-5.11	1/1
20	QPSK	3460.02	21.09	H	6.17	10.62	25.54	358.10	30.00	-4.46	1/49
		3499.98	21.30	H	6.21	10.67	25.49	354.00	30.00	-4.51	1/49
		3540.00	21.23	H	6.24	10.74	25.73	374.11	30.00	-4.27	1/49
	16-QAM	3460.02	20.13	H	6.17	10.62	24.58	287.08	30.00	-5.42	1/49
		3499.98	20.17	H	6.21	10.67	24.63	290.40	30.00	-5.37	1/49
		3540.00	20.15	H	6.24	10.74	24.65	291.74	30.00	-5.35	1/49
15	QPSK	3457.50	21.01	H	6.17	10.62	25.46	351.56	30.00	-4.54	1/36
		3499.98	21.34	H	6.21	10.67	25.80	380.19	30.00	-4.20	1/36
		3542.49	21.30	H	6.24	10.75	25.81	381.07	30.00	-4.19	1/1
	16-QAM	3457.50	19.90	H	6.17	10.62	24.35	272.27	30.00	-5.65	1/36
		3499.98	20.32	H	6.21	10.67	24.78	300.61	30.00	-5.22	1/36
		3542.49	20.40	H	6.24	10.75	24.91	309.74	30.00	-5.09	1/1
10	QPSK	3455.01	21.11	H	6.16	10.61	25.56	359.75	30.00	-4.44	1/1
		3499.98	21.21	H	6.21	10.67	25.67	368.98	30.00	-4.33	1/1
		3544.98	21.43	H	6.24	10.75	25.93	391.74	30.00	-4.07	1/22
	16-QAM	3455.01	20.13	H	6.16	10.61	24.58	287.08	30.00	-5.42	1/1
		3499.98	20.16	H	6.21	10.67	24.62	289.73	30.00	-5.38	1/1
		3544.98	20.33	H	6.24	10.75	24.83	304.09	30.00	-5.17	1/22

**5G NR n77(PC2, 3450-3550 MHz, ANT C, SRS1)**

BW (MHz)	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)
50	3475.00	11.33	H	6.18	10.64	15.78	37.84	30.00	-14.22
	3499.98	12.93	H	6.21	10.67	17.39	54.83	30.00	-12.61
	3524.00	11.94	H	6.23	10.71	16.43	43.95	30.00	-13.57

**5G NR n77(PC2,3450-3550 MHz, ANT F, SRS2)**

BW (MHz)	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)
50	3475.02	17.62	H	6.18	10.64	22.07	161.06	30.00	-7.93
	3499.98	16.78	H	6.21	10.67	21.24	133.05	30.00	-8.76
	3525.00	16.72	H	6.23	10.71	21.20	131.83	30.00	-8.80

**5G NR n77(PC2,3450-3550 MHz, ANT A, SRS3)**

BW (MHz)	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)
50	3475.02	11.73	V	6.18	10.64	16.18	41.50	30.00	-13.82
	3499.98	11.98	V	6.21	10.67	16.44	44.06	30.00	-13.56
	3525.00	11.61	V	6.23	10.71	16.09	40.64	30.00	-13.91

**5G NR n77 DFT-s OFDM (PC2, 3700-3980 MHz, ANT E)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
100	QPSK	3750.00	22.03	H	6.43	10.69	26.29	425.60	30.00	-3.71	1/1
		3840.00	21.12	H	6.50	10.58	25.19	330.37	30.00	-4.81	1/271
		3930.00	21.99	H	6.58	10.48	25.89	388.15	30.00	-4.11	1/1
	16-QAM	3750.00	20.93	H	6.43	10.69	25.19	330.37	30.00	-4.81	1/1
		3840.00	20.07	H	6.50	10.58	24.14	259.42	30.00	-5.86	1/271
		3930.00	21.12	H	6.58	10.48	25.02	317.69	30.00	-4.98	1/1
90	QPSK	3745.02	22.47	H	6.43	10.70	26.75	473.15	30.00	-3.25	1/1
		3840.00	22.65	H	6.50	10.58	26.72	469.89	30.00	-3.28	1/243
		3934.98	21.36	H	6.59	10.48	25.25	334.97	30.00	-4.75	1/1
	16-QAM	3745.02	21.58	H	6.43	10.70	25.85	384.59	30.00	-4.15	1/1
		3840.00	21.68	H	6.50	10.58	25.75	375.84	30.00	-4.25	1/243
		3934.98	20.37	H	6.59	10.48	24.26	266.69	30.00	-5.74	1/1
80	QPSK	3740.01	22.32	H	6.42	10.70	26.61	458.14	30.00	-3.39	1/1
		3840.00	22.72	H	6.50	10.58	26.79	477.53	30.00	-3.21	1/1
		3939.99	21.36	H	6.59	10.47	25.24	334.20	30.00	-4.76	1/1
	16-QAM	3740.01	21.55	H	6.42	10.70	25.84	383.71	30.00	-4.16	1/1
		3840.00	21.79	H	6.50	10.58	25.86	385.48	30.00	-4.14	1/1
		3939.99	20.25	H	6.59	10.47	24.13	258.82	30.00	-5.87	1/1
70	QPSK	3735.00	22.06	H	6.41	10.71	26.35	431.52	30.00	-3.65	1/1
		3840.00	22.75	H	6.50	10.58	26.82	480.84	30.00	-3.18	1/188
		3945.00	21.33	H	6.60	10.47	25.21	331.89	30.00	-4.79	1/1
	16-QAM	3735.00	21.13	H	6.41	10.71	25.42	348.34	30.00	-4.58	1/1
		3840.00	21.89	H	6.50	10.58	25.96	394.46	30.00	-4.04	1/188
		3945.00	20.52	H	6.60	10.47	24.40	275.42	30.00	-5.60	1/1
60	QPSK	3730.02	21.72	H	6.41	10.72	26.02	399.94	30.00	-3.98	1/1
		3840.00	22.79	H	6.50	10.58	26.86	485.29	30.00	-3.14	1/160
		3949.98	21.06	H	6.60	10.47	24.93	311.17	30.00	-5.07	1/1
	16-QAM	3730.02	20.80	H	6.41	10.72	25.10	323.59	30.00	-4.90	1/1
		3840.00	21.65	H	6.50	10.58	25.72	373.25	30.00	-4.28	1/160
		3949.98	20.10	H	6.60	10.47	23.97	249.46	30.00	-6.03	1/1
50	QPSK	3725.01	22.25	H	6.41	10.72	26.57	453.94	30.00	-3.43	1/1
		3840.00	22.81	H	6.50	10.58	26.88	487.53	30.00	-3.12	1/1
		3954.99	21.20	H	6.60	10.47	25.06	320.63	30.00	-4.94	1/67
	16-QAM	3725.01	21.28	H	6.41	10.72	25.59	362.24	30.00	-4.41	1/1
		3840.00	21.94	H	6.50	10.58	26.01	399.02	30.00	-3.99	1/1
		3954.99	20.14	H	6.60	10.47	24.00	251.19	30.00	-6.00	1/67
40	QPSK	3720.02	22.09	H	6.40	10.73	26.42	438.53	30.00	-3.58	1/1
		3840.00	22.44	H	6.50	10.58	26.51	447.71	30.00	-3.49	1/104
		3960.00	20.82	H	6.60	10.47	24.68	293.76	30.00	-5.32	1/104
	16-QAM	3720.02	21.16	H	6.40	10.73	25.49	354.00	30.00	-4.51	1/1
		3840.00	21.62	H	6.50	10.58	25.69	370.68	30.00	-4.31	1/104
		3960.00	19.88	H	6.60	10.47	23.74	236.59	30.00	-6.26	1/104
30	QPSK	3715.02	21.84	H	6.40	10.73	26.18	414.95	30.00	-3.82	1/1
		3840.00	22.44	H	6.50	10.58	26.51	447.71	30.00	-3.49	1/1
		3964.98	20.86	H	6.61	10.46	24.71	295.80	30.00	-5.29	1/1
	16-QAM	3715.02	20.65	H	6.40	10.73	24.99	315.50	30.00	-5.01	1/1
		3840.00	21.43	H	6.50	10.58	25.50	354.81	30.00	-4.50	1/1
		3964.98	19.78	H	6.61	10.46	23.63	230.67	30.00	-6.37	1/1
25	QPSK	3712.50	21.92	H	6.40	10.74	26.26	422.67	30.00	-3.74	1/32
		3840.00	23.04	H	6.50	10.58	27.11	514.04	30.00	-2.89	1/32
		3967.50	20.80	H	6.61	10.46	24.65	291.74	30.00	-5.35	1/32
	16-QAM	3712.50	20.81	H	6.40	10.74	25.15	327.34	30.00	-4.85	1/32
		3840.00	22.03	H	6.50	10.58	26.10	407.38	30.00	-3.90	1/32
		3969.99	19.89	H	6.61	10.46	23.74	236.59	30.00	-6.26	1/32
20	QPSK	3710.01	21.64	H	6.39	10.74	25.98	396.28	30.00	-4.02	1/49
		3840.00	22.53	H	6.50	10.58	26.60	457.09	30.00	-3.40	1/49
		3969.99	20.83	H	6.61	10.46	24.68	293.76	30.00	-5.32	1/49
	16-QAM	3710.01	20.67	H	6.39	10.74	25.01	316.96	30.00	-4.99	1/49
		3840.00	21.66	H	6.50	10.58	25.73	374.11	30.00	-4.27	1/49
		3969.99	19.83	H	6.61	10.46	23.68	233.35	30.00	-6.32	1/49
15	QPSK	3707.52	21.67	H	6.39	10.74	26.02	399.94	30.00	-3.98	1/1
		3840.00	22.72	H	6.50	10.58	26.79	477.53	30.00	-3.21	1/36
		3972.48	20.76	H	6.62	10.46	24.61	289.07	30.00	-5.39	1/36
	16-QAM	3707.52	20.54	H	6.39	10.74	24.89	308.32	30.00	-5.11	1/1
		3840.00	21.84	H	6.50	10.58	25.91	389.94	30.00	-4.09	1/36
		3972.48	19.72	H	6.62	10.46	23.57	227.51	30.00	-6.43	1/36
10	QPSK	3705.00	21.77	H	6.39	10.74	26.13	410.20	30.00	-3.87	1/1
		3840.00	22.96	H	6.50	10.58	26.63	460.26	30.00	-3.37	1/22
		3975.00	20.78	H	6.62	10.46	24.61	289.07	30.00	-5.39	1/22
	16-QAM	3705.00	20.61	H	6.39	10.74	24.97	314.05	30.00	-5.03	1/1
		3840.00	21.65	H	6.50	10.58	25.72	373.25	30.00	-4.28	1/22
		3975.00	19.80	H	6.62	10.46	23.63	230.67	30.00	-6.37	1/22

**5G NR n77(PC2,3700-3980 MHz, ANT C, SRS1)**

BW (MHz)	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)
30	3715.02	12.38	H	6.40	10.73	16.71	46.88	30.00	-13.29
	3840.00	13.88	H	6.50	10.58	17.95	62.37	30.00	-12.05
	3964.98	14.17	H	6.61	10.46	18.02	63.39	30.00	-11.98

**5G NR n77(PC2,3700-3980 MHz, ANT F, SRS2)**

BW (MHz)	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)
50	3725.01	19.11	H	6.41	10.72	23.42	219.79	30.00	-6.58
	3840.00	18.48	H	6.50	10.58	22.55	179.89	30.00	-7.45
	3954.99	20.54	H	6.60	10.47	24.41	276.06	30.00	-5.59

**5G NR n77(PC2,3700-3980 MHz, ANT A, SRS3)**

BW (MHz)	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)
25	3712.50	14.57	H	6.40	10.74	18.91	77.80	30.00	-11.09
	3840.00	16.33	H	6.50	10.58	20.40	109.65	30.00	-9.60
	3967.50	14.75	H	6.61	10.46	18.59	72.28	30.00	-11.41

## 9.2. RADIATED SPURIOUS EMISSION

### RULE PART(S)

FCC: §2.1053, §27.53

### LIMIT

Part 27.53:

(c)(2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least  $43 + 10 \log (P)$  dB.

(g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least  $43 + 10 \log (P)$  dB.

(h) The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \log_{10} (P)$  dB.

(m) (4) For mobile digital stations, the attenuation factor shall be not less than  $40 + 10 \log (P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log (P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log (P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than  $43 + 10 \log (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log (P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

(l)(2) For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed  $-13$  dBm/MHz. Compliance with this paragraph (l)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

(n)(2) For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed  $-13$  dBm/MHz. Compliance with this paragraph (n)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

## **TEST PROCEDURE**

ANSI / TIA / EIA 603 E Clause 2.2.12; ESU40 setting reference to 971168 D01 v03r01

For peak power measurement with a ESU40:

- a) Set the RBW = 100 kHz for emission below 1 GHz and 1 MHz for emissions above 1 GHz
- b) Set VBW  $\geq 3 \times$  RBW;
- c) Set span  $\geq 1.5$  times the OBW;
- d) Sweep time = auto couple;
- e) Detector = rms;
- f) Ensure that the number of measurement points  $\geq$  span/RBW;
- g) Trace Mode = average(WCDMA, LTE FDD, 5G NR FDD), Maxhold(LTE TDD, 5G NR TDD);

### **NOTE1**

LTE: It was tested at 1RB QPSK as worst case (the highest output power and density).

5G NR: All Waveforms (CP-OFDM vs DFT-s\_OFDM) and modulations ( $\pi/2$  BPSK, QPSK, 16QAM, 64QAM, 256QAM) 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.

### **NOTE2**

Please refer to section 5.4 for bandwidth and RB setting about LTE, 5G NR bands.

### **NOTE3**

For interband ULCA, it was checked in the RSE considering intermodulation, but no additional spurious emissions were founded.

## **RESULTS**

See the following pages.

### 9.2.1. SPURIOUS RADIATION PLOTS

#### WCDMA Band 4

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
REL99	Company: Samsung										
	Project #: 4791196575										
	Date: 2024-03-13										
	Test Engineer: 24542										
	Configuration: EUT / AC Adapter, X-Position, FF										
	Location: Chamber 1										
	Mode: Rel99 Band 4 Harmonics										
	Test Voltage: AC 120 V, 60 Hz										
	<b>Low Ch, 1712.4MHz</b>										
		3424.80	-8.5	V	3.0	44.0	1.0	-51.4	-13.0	-38.4	
		5137.20	-6.3	V	3.0	44.8	1.0	-50.1	-13.0	-37.1	
		8562.00	-1.5	V	3.0	44.4	1.0	-44.9	-13.0	-31.9	
		3424.80	-8.2	H	3.0	44.0	1.0	-51.2	-13.0	-38.2	
		5137.20	-6.8	H	3.0	44.8	1.0	-50.6	-13.0	-37.6	
		6849.60	-4.0	H	3.0	45.1	1.0	-48.1	-13.0	-35.1	
	<b>Mid Ch, 1732.6MHz</b>										
		3465.20	-8.1	V	3.0	44.0	1.0	-51.1	-13.0	-38.1	
		5197.80	-5.6	V	3.0	44.8	1.0	-49.5	-13.0	-36.5	
		6930.40	-3.8	V	3.0	45.1	1.0	-48.0	-13.0	-35.0	
		3465.20	-8.0	H	3.0	44.0	1.0	-51.0	-13.0	-38.0	
		5197.80	-6.0	H	3.0	44.8	1.0	-49.9	-13.0	-36.9	
		6930.40	-3.8	H	3.0	45.1	1.0	-47.9	-13.0	-34.9	
	<b>High Ch, 1752.6MHz</b>										
		3505.20	-8.1	V	3.0	44.0	1.0	-51.1	-13.0	-38.1	
		5257.80	-6.5	V	3.0	44.9	1.0	-50.3	-13.0	-37.3	
		7010.40	-3.7	V	3.0	45.1	1.0	-47.8	-13.0	-34.8	
		3505.20	-7.9	H	3.0	44.0	1.0	-50.9	-13.0	-37.9	
		5257.80	-6.5	H	3.0	44.9	1.0	-50.4	-13.0	-37.4	
	7010.40	-3.8	H	3.0	45.1	1.0	-47.9	-13.0	-34.9		

**LTE Band 7**

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung Project #: 4791196575 Date: 2024-03-07 Test Engineer: 28775 Configuration: EUT / AC Adapter, Z-Position, Open Location: Chamber 2 Mode: LTE_QPSK Band 7 Harmonics, 5MHz Bandwidth Test Voltage: AC 120 V, 60 Hz									
		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
5MHz  QPSK  ANT B	Low Ch, 2502.5MHz										
		5005.00	-20.7	V	3.0	42.9	1.0	-62.6	-25.0	-37.6	
		7507.50	-16.4	V	3.0	42.6	1.0	-58.0	-25.0	-33.0	
		10010.00	-15.7	V	3.0	41.0	1.0	-55.7	-25.0	-30.7	
		5005.00	-18.0	H	3.0	42.9	1.0	-59.9	-25.0	-34.9	
		7507.50	-18.0	H	3.0	42.6	1.0	-59.6	-25.0	-34.6	
		10010.00	-16.1	H	3.0	41.0	1.0	-56.1	-25.0	-31.1	
	Mid Ch, 2535MHz										
		5070.00	-20.1	V	3.0	42.9	1.0	-62.0	-25.0	-37.0	
		7605.00	-18.2	V	3.0	42.5	1.0	-59.7	-25.0	-34.7	
		10140.00	-16.2	V	3.0	41.1	1.0	-56.2	-25.0	-31.2	
		5070.00	-18.5	H	3.0	42.9	1.0	-60.4	-25.0	-35.4	
		7605.00	-18.6	H	3.0	42.5	1.0	-60.2	-25.0	-35.2	
		10140.00	-16.5	H	3.0	41.1	1.0	-56.6	-25.0	-31.6	
	High Ch, 2567.5MHz										
		5135.00	-18.5	V	3.0	42.9	1.0	-60.5	-25.0	-35.5	
		7702.50	-11.9	V	3.0	42.5	1.0	-53.4	-25.0	-28.4	
		10270.00	-15.8	V	3.0	41.1	1.0	-55.9	-25.0	-30.9	
		5135.00	-17.9	H	3.0	42.9	1.0	-59.9	-25.0	-34.9	
		7702.50	-13.2	H	3.0	42.5	1.0	-54.7	-25.0	-29.7	
		10270.00	-15.8	H	3.0	41.1	1.0	-56.0	-25.0	-31.0	
		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung Project #: 4791196575 Date: 2024-03-12 Test Engineer: 28775 Configuration: EUT / AC Adapter, X-Position, FF Location: Chamber 2 Mode: LTE_QPSK Band 7 Harmonics, 20MHz Bandwidth Test Voltage: AC 120 V, 60 Hz									
		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
20 MHz  QPSK  ANT E	Low Ch, 2510MHz										
		5020.00	-21.3	V	3.0	42.9	1.0	-63.2	-25.0	-38.2	
		7530.00	-18.5	V	3.0	42.6	1.0	-60.1	-25.0	-35.1	
		10040.00	-16.5	V	3.0	41.0	1.0	-56.5	-25.0	-31.5	
		5020.00	-21.3	H	3.0	42.9	1.0	-63.2	-25.0	-38.2	
		7530.00	-19.1	H	3.0	42.6	1.0	-60.7	-25.0	-35.7	
		10040.00	-16.7	H	3.0	41.0	1.0	-56.7	-25.0	-31.7	
	Mid Ch, 2535MHz										
		5070.00	-21.7	V	3.0	42.9	1.0	-63.6	-25.0	-38.6	
		7605.00	-17.7	V	3.0	42.5	1.0	-59.3	-25.0	-34.3	
		10140.00	-16.4	V	3.0	41.1	1.0	-56.5	-25.0	-31.5	
		5070.00	-21.6	H	3.0	42.9	1.0	-63.6	-25.0	-38.6	
		7605.00	-19.1	H	3.0	42.5	1.0	-60.6	-25.0	-35.6	
		10140.00	-16.6	H	3.0	41.1	1.0	-56.6	-25.0	-31.6	
	High Ch, 2560MHz										
		5120.00	-21.7	V	3.0	42.9	1.0	-63.6	-25.0	-38.6	
		7680.00	-18.3	V	3.0	42.5	1.0	-59.8	-25.0	-34.8	
		10240.00	-16.2	V	3.0	41.1	1.0	-56.3	-25.0	-31.3	
		5120.00	-21.8	H	3.0	42.9	1.0	-63.7	-25.0	-38.7	
		7680.00	-19.0	H	3.0	42.5	1.0	-60.5	-25.0	-35.5	
		10240.00	-16.3	H	3.0	41.1	1.0	-56.4	-25.0	-31.4	



**LTE Band 12**

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung Project #: 4791196575 Date: 2024-02-29 Test Engineer: 26087 Configuration: EUT / Y-Position, Open Location: Chamber 2 Mode: LTE_QPSK Band 12 Harmonics, 10MHz Bandwidth Test Voltage: AC 120 V, 60 Hz									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
10 MHz											
QPSK											
ANT A+B											
Low Ch, 704MHz											
1408.00	-15.6	V	3.0	40.9	1.0	-55.5	-13.0	-42.5			
2112.00	-12.8	V	3.0	40.9	1.0	-52.7	-13.0	-39.7			
2816.00	-10.4	V	3.0	41.9	1.0	-51.4	-13.0	-38.4			
1408.00	-17.0	H	3.0	40.9	1.0	-56.9	-13.0	-43.9			
2112.00	-13.5	H	3.0	40.9	1.0	-53.4	-13.0	-40.4			
2816.00	-9.7	H	3.0	41.9	1.0	-50.6	-13.0	-37.6			
Mid Ch, 707.5MHz											
1415.00	-14.7	V	3.0	40.9	1.0	-54.6	-13.0	-41.6			
2122.50	-12.7	V	3.0	40.9	1.0	-52.6	-13.0	-39.6			
2830.00	-10.4	V	3.0	41.9	1.0	-51.3	-13.0	-38.3			
1415.00	-16.9	H	3.0	40.9	1.0	-56.7	-13.0	-43.7			
2122.50	-13.4	H	3.0	40.9	1.0	-53.3	-13.0	-40.3			
2830.00	-9.7	H	3.0	41.9	1.0	-50.6	-13.0	-37.6			
High Ch, 711MHz											
1422.00	-15.0	V	3.0	40.9	1.0	-54.8	-13.0	-41.8			
2133.00	-12.8	V	3.0	40.9	1.0	-52.7	-13.0	-39.7			
2844.00	-10.1	V	3.0	42.0	1.0	-51.1	-13.0	-38.1			
1422.00	-17.0	H	3.0	40.9	1.0	-56.8	-13.0	-43.8			
2133.00	-13.4	H	3.0	40.9	1.0	-53.3	-13.0	-40.3			
2844.00	-9.5	H	3.0	42.0	1.0	-50.5	-13.0	-37.5			
		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung Project #: 4791196575 Date: 2024-03-06 Test Engineer: 26087 Configuration: EUT / Z-Position, FF Location: Chamber 1 Mode: LTE_QPSK Band 12 Harmonics, 3MHz Bandwidth Test Voltage: AC 120 V, 60 Hz									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
3 MHz											
QPSK											
ANT A											
Low Ch, 700.5MHz											
1401.00	-15.8	V	3.0	43.3	1.0	-58.0	-13.0	-45.0			
2101.50	-12.4	V	3.0	43.4	1.0	-54.8	-13.0	-41.8			
2802.00	-10.9	V	3.0	43.7	1.0	-53.6	-13.0	-40.6			
1401.00	-17.8	H	3.0	43.3	1.0	-60.1	-13.0	-47.1			
2101.50	-12.8	H	3.0	43.4	1.0	-55.2	-13.0	-42.2			
2802.00	-10.9	H	3.0	43.7	1.0	-53.6	-13.0	-40.6			
Mid Ch, 707.5MHz											
1415.00	-16.5	V	3.0	43.3	1.0	-58.7	-13.0	-45.7			
2122.50	-9.7	V	3.0	43.4	1.0	-52.2	-13.0	-39.2			
2830.00	-10.9	V	3.0	43.7	1.0	-53.6	-13.0	-40.6			
1415.00	-17.5	H	3.0	43.3	1.0	-59.8	-13.0	-46.8			
2122.50	-12.1	H	3.0	43.4	1.0	-54.5	-13.0	-41.5			
2830.00	-10.7	H	3.0	43.7	1.0	-53.4	-13.0	-40.4			
High Ch, 714.5MHz											
1429.00	-16.1	V	3.0	43.3	1.0	-58.3	-13.0	-45.3			
2143.50	-12.2	V	3.0	43.4	1.0	-54.6	-13.0	-41.6			
2858.00	-10.7	V	3.0	43.7	1.0	-53.5	-13.0	-40.5			
1429.00	-17.7	H	3.0	43.3	1.0	-59.9	-13.0	-46.9			
2143.50	-12.0	H	3.0	43.4	1.0	-54.4	-13.0	-41.4			
2858.00	-10.6	H	3.0	43.7	1.0	-53.3	-13.0	-40.3			

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
<b>Company:</b>		Samsung							
<b>Project #:</b>		4791196575							
<b>Date:</b>		2024-04-27							
<b>Test Engineer:</b>		24542							
<b>Configuration:</b>		EUT / AC Adapter, Y-Position, Open							
<b>Location:</b>		Chamber 1							
<b>Mode:</b>		LTE_QPSK Band 12 Harmonics, 10MHz Bandwidth							
<b>Test Voltage:</b>		AC 120 V, 60 Hz							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
10 MHz									
QPSK									
ANT D									
<b>Low Ch, 704MHz</b>									
1408.00	-14.8	V	3.0	43.3	1.0	-57.1	-13.0	-44.1	
2112.00	-4.2	V	3.0	43.4	1.0	-46.7	-13.0	-33.7	
2816.00	-23.1	V	3.0	43.7	1.0	-65.8	-13.0	-52.8	
1408.00	-15.3	H	3.0	43.3	1.0	-57.6	-13.0	-44.6	
2112.00	-2.6	H	3.0	43.4	1.0	-45.1	-13.0	-32.1	
2816.00	-23.0	H	3.0	43.7	1.0	-65.7	-13.0	-52.7	
<b>Mid Ch, 707.5MHz</b>									
1415.00	-15.2	V	3.0	43.3	1.0	-57.5	-13.0	-44.5	
2122.50	-3.0	V	3.0	43.4	1.0	-45.5	-13.0	-32.5	
2830.00	-11.2	V	3.0	43.7	1.0	-53.9	-13.0	-40.9	
1415.00	-16.4	H	3.0	43.3	1.0	-58.6	-13.0	-45.6	
2122.50	0.9	H	3.0	43.4	1.0	-41.6	-13.0	-28.6	
2830.00	-11.1	H	3.0	43.7	1.0	-53.8	-13.0	-40.8	
<b>High Ch, 711MHz</b>									
1422.00	-15.4	V	3.0	43.3	1.0	-57.7	-13.0	-44.7	
2133.00	-3.6	V	3.0	43.4	1.0	-46.1	-13.0	-33.1	
2844.00	-11.0	V	3.0	43.7	1.0	-53.7	-13.0	-40.7	
1422.00	-17.2	H	3.0	43.3	1.0	-59.5	-13.0	-46.5	
2133.00	-3.4	H	3.0	43.4	1.0	-45.8	-13.0	-32.8	
2844.00	-10.9	H	3.0	43.7	1.0	-53.6	-13.0	-40.6	

**LTE Band 13**

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung Project #: 4791196575 Date: 2024-02-28 Test Engineer: 26087 Configuration: EUT / Y-Position, Open Location: Chamber 2 Mode: LTE_QPSK Band 13 Harmonics, 5MHz Bandwidth Test Voltage: AC 120 V, 60 Hz									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
5 MHz QPSK ANT A+B											
Low Ch, 779.5MHz											
1559.00	-27.8	V	3.0	40.8	1.0	-67.6	-40.0	-27.6			
2338.50	-12.0	V	3.0	41.2	1.0	-52.2	-13.0	-39.2			
3118.00	-9.1	V	3.0	42.2	1.0	-50.3	-13.0	-37.3			
1559.00	-31.2	H	3.0	40.8	1.0	-71.0	-40.0	-31.0			
2338.50	-12.1	H	3.0	41.2	1.0	-52.3	-13.0	-39.3			
3118.00	-8.2	H	3.0	42.2	1.0	-49.4	-13.0	-36.4			
Mid Ch, 782MHz											
1564.00	-27.5	V	3.0	40.8	1.0	-67.4	-40.0	-27.4			
2346.00	-12.0	V	3.0	41.2	1.0	-52.2	-13.0	-39.2			
3128.00	-8.9	V	3.0	42.2	1.0	-50.1	-13.0	-37.1			
1564.00	-31.1	H	3.0	40.8	1.0	-70.9	-40.0	-30.9			
2346.00	-12.1	H	3.0	41.2	1.0	-52.3	-13.0	-39.3			
3128.00	-8.1	H	3.0	42.2	1.0	-49.3	-13.0	-36.3			
High Ch, 784.5MHz											
1569.00	-28.4	V	3.0	40.8	1.0	-68.2	-40.0	-28.2			
2353.50	-12.0	V	3.0	41.3	1.0	-52.3	-13.0	-39.3			
3138.00	-9.0	V	3.0	42.2	1.0	-50.2	-13.0	-37.2			
1569.00	-31.2	H	3.0	40.8	1.0	-71.0	-40.0	-31.0			
2353.50	-12.2	H	3.0	41.3	1.0	-52.4	-13.0	-39.4			
3138.00	-8.2	H	3.0	42.2	1.0	-49.4	-13.0	-36.4			
		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung Project #: 4791196575 Date: 2023-03-07 Test Engineer: 24542 Configuration: EUT / AC Adapter, Y-Position, FF Location: Chamber 1 Mode: LTE_QPSK Band 13 Harmonics, 5MHz Bandwidth Test Voltage: AC 120 V, 60 Hz									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
5 MHz QPSK ANT A											
Low Ch, 779.5MHz											
1559.00	-15.7	V	3.0	43.3	1.0	-58.0	-40.0	-18.0			
2338.50	-8.1	V	3.0	43.5	1.0	-50.6	-13.0	-37.6			
3118.00	-10.1	V	3.0	43.8	1.0	-52.9	-13.0	-39.9			
1559.00	-17.0	H	3.0	43.3	1.0	-59.3	-40.0	-19.3			
2338.50	-10.1	H	3.0	43.5	1.0	-52.6	-13.0	-39.6			
3118.00	-9.7	H	3.0	43.8	1.0	-52.6	-13.0	-39.6			
Mid Ch, 782MHz											
1564.00	-15.7	V	3.0	43.3	1.0	-58.0	-40.0	-18.0			
2346.00	-8.0	V	3.0	43.5	1.0	-50.6	-13.0	-37.6			
3128.00	-9.9	V	3.0	43.8	1.0	-52.8	-13.0	-39.8			
1564.00	-16.9	H	3.0	43.3	1.0	-59.2	-40.0	-19.2			
2346.00	-9.6	H	3.0	43.5	1.0	-52.1	-13.0	-39.1			
3128.00	-9.6	H	3.0	43.8	1.0	-52.5	-13.0	-39.5			
High Ch, 784.5MHz											
1569.00	-15.7	V	3.0	43.3	1.0	-58.0	-40.0	-18.0			
2353.50	-7.5	V	3.0	43.5	1.0	-50.1	-13.0	-37.1			
3138.00	-10.0	V	3.0	43.8	1.0	-52.8	-13.0	-39.8			
1569.00	-16.9	H	3.0	43.3	1.0	-59.2	-40.0	-19.2			
2353.50	-8.7	H	3.0	43.5	1.0	-51.2	-13.0	-38.2			
3138.00	-9.6	H	3.0	43.8	1.0	-52.4	-13.0	-39.4			

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
<b>Company:</b>		Samsung							
<b>Project #:</b>		4791196575							
<b>Date:</b>		2024-04-26							
<b>Test Engineer:</b>		26087							
<b>Configuration:</b>		EUT / AC Adapter, Z-Position, HF							
<b>Location:</b>		Chamber 1							
<b>Mode:</b>		LTE_QPSK Band 13 Harmonics, 5MHz Bandwidth							
<b>Test Voltage:</b>		AC 120 V, 60 Hz							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
5 MHz									
QPSK									
ANT D									
Low Ch, 779.5MHz									
1559.00	-21.7	V	3.0	43.3	1.0	-64.0	-40.0	-24.0	
2338.50	-2.5	V	3.0	43.5	1.0	-45.1	-13.0	-32.1	
3118.00	-10.3	V	3.0	43.8	1.0	-53.1	-13.0	-40.1	
1559.00	-21.1	H	3.0	43.3	1.0	-63.4	-40.0	-23.4	
2338.50	-7.3	H	3.0	43.5	1.0	-49.9	-13.0	-36.9	
3118.00	-9.9	H	3.0	43.8	1.0	-52.8	-13.0	-39.8	
Mid Ch, 782MHz									
1564.00	-14.4	V	3.0	43.3	1.0	-56.7	-40.0	-16.7	
2346.00	-1.9	V	3.0	43.5	1.0	-44.5	-13.0	-31.5	
3128.00	-10.1	V	3.0	43.8	1.0	-52.9	-13.0	-39.9	
1564.00	-8.0	H	3.0	43.3	1.0	-50.3	-40.0	-10.3	
2346.00	-7.3	H	3.0	43.5	1.0	-49.8	-13.0	-36.8	
3128.00	-9.8	H	3.0	43.8	1.0	-52.6	-13.0	-39.6	
High Ch, 784.5MHz									
1569.00	-20.7	V	3.0	43.3	1.0	-63.0	-40.0	-23.0	
2353.50	-4.0	V	3.0	43.5	1.0	-46.5	-13.0	-33.5	
3138.00	-10.1	V	3.0	43.8	1.0	-52.9	-13.0	-39.9	
1569.00	-20.6	H	3.0	43.3	1.0	-62.9	-40.0	-22.9	
2353.50	-6.2	H	3.0	43.5	1.0	-48.7	-13.0	-35.7	
3138.00	-9.7	H	3.0	43.8	1.0	-52.6	-13.0	-39.6	

**LTE Band 30**

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung Project #: 4791196575 Date: 2024-04-15 Test Engineer: 28775 Configuration: EUT / AC Adapter, Y-Position, FF Location: Chamber 2 Mode: LTE_QPSK Band 30 Harmonics, 5MHz Bandwidth Test Voltage: AC 120 V, 60 Hz									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
5 MHz QPSK ANT B											
Low Ch, 2307.5MHz											
4615.00	-25.0	V	3.0	42.6	1.0	-66.6	-40.0	-26.6			
6922.50	-21.3	V	3.0	42.9	1.0	-63.1	-40.0	-23.1			
9230.00	-18.7	V	3.0	41.7	1.0	-59.4	-40.0	-19.4			
4615.00	-25.1	H	3.0	42.6	1.0	-66.7	-40.0	-26.7			
6922.50	-21.7	H	3.0	42.9	1.0	-63.5	-40.0	-23.5			
9230.00	-19.0	H	3.0	41.7	1.0	-59.7	-40.0	-19.7			
Mid Ch, 2310MHz											
4620.00	-23.0	V	3.0	42.6	1.0	-64.7	-40.0	-24.7			
6930.00	-21.7	V	3.0	42.9	1.0	-63.5	-40.0	-23.5			
9240.00	-18.2	V	3.0	41.7	1.0	-58.9	-40.0	-18.9			
4620.00	-24.2	H	3.0	42.6	1.0	-65.8	-40.0	-25.8			
6930.00	-24.1	H	3.0	42.9	1.0	-66.0	-40.0	-26.0			
9240.00	-20.5	H	3.0	41.7	1.0	-61.2	-40.0	-21.2			
High Ch, 2312.5MHz											
4625.00	-22.8	V	3.0	42.7	1.0	-64.4	-40.0	-24.4			
6937.50	-22.5	V	3.0	42.8	1.0	-64.4	-40.0	-24.4			
9250.00	-20.1	V	3.0	41.7	1.0	-60.8	-40.0	-20.8			
4625.00	-22.7	H	3.0	42.7	1.0	-64.4	-40.0	-24.4			
6937.50	-23.1	H	3.0	42.8	1.0	-64.9	-40.0	-24.9			
9250.00	-20.3	H	3.0	41.7	1.0	-61.0	-40.0	-21.0			
		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung Project #: 4791196575 Date: 2024-03-11 Test Engineer: 28775 Configuration: EUT / AC Adapter, Y-Position, FF Location: Chamber 2 Mode: LTE_QPSK Band 30 Harmonics, 5MHz Bandwidth Test Voltage: AC 120 V, 60 Hz									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
5 MHz QPSK ANT E											
Low Ch, 2307.5MHz											
4615.00	-19.9	V	3.0	42.6	1.0	-61.5	-40.0	-21.5			
6922.50	-23.9	V	3.0	42.9	1.0	-65.8	-40.0	-25.8			
9230.00	-17.2	V	3.0	41.7	1.0	-57.9	-40.0	-17.9			
4615.00	-24.6	H	3.0	42.6	1.0	-66.3	-40.0	-26.3			
6922.50	-24.6	H	3.0	42.9	1.0	-66.4	-40.0	-26.4			
9230.00	-19.7	H	3.0	41.7	1.0	-60.4	-40.0	-20.4			
Mid Ch, 2310MHz											
4620.00	-19.7	V	3.0	42.6	1.0	-61.4	-40.0	-21.4			
6930.00	-24.4	V	3.0	42.9	1.0	-66.3	-40.0	-26.3			
9240.00	-16.5	V	3.0	41.7	1.0	-57.2	-40.0	-17.2			
4620.00	-24.4	H	3.0	42.6	1.0	-66.0	-40.0	-26.0			
6930.00	-24.8	H	3.0	42.9	1.0	-66.7	-40.0	-26.7			
9240.00	-19.6	H	3.0	41.7	1.0	-60.3	-40.0	-20.3			
High Ch, 2312.5MHz											
4625.00	-19.9	V	3.0	42.7	1.0	-61.5	-40.0	-21.5			
6937.50	-24.1	V	3.0	42.8	1.0	-65.9	-40.0	-25.9			
9250.00	-17.4	V	3.0	41.7	1.0	-58.1	-40.0	-18.1			
4625.00	-24.2	H	3.0	42.7	1.0	-65.9	-40.0	-25.9			
6937.50	-24.8	H	3.0	42.8	1.0	-66.6	-40.0	-26.6			
9250.00	-19.7	H	3.0	41.7	1.0	-60.4	-40.0	-20.4			

**LTE Band 41(PC2)**

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung Project #: 4791196575 Date: 2024-02-27 Test Engineer: 26087 Configuration: EUT / Z-Position, Open Location: Chamber 2 Mode: LTE_QPSK Band 41 Harmonics, 10MHz Bandwidth Test Voltage: AC 120 V, 60 Hz									
		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
10 MHz	QPSK ANT B	Low Ch, 2501MHz									
		5002.00	-18.3	V	3.0	42.9	1.0	-60.2	-25.0	-35.2	
		7503.00	-16.0	V	3.0	42.6	1.0	-57.6	-25.0	-32.6	
		10004.00	-13.8	V	3.0	41.0	1.0	-53.8	-25.0	-28.8	
		5002.00	-19.2	H	3.0	42.9	1.0	-61.1	-25.0	-36.1	
		7503.00	-16.6	H	3.0	42.6	1.0	-58.1	-25.0	-33.1	
		10004.00	-13.7	H	3.0	41.0	1.0	-53.7	-25.0	-28.7	
		Mid Ch, 2593MHz									
		5186.00	-18.2	V	3.0	43.0	1.0	-60.2	-25.0	-35.2	
		7779.00	-11.6	V	3.0	42.4	1.0	-53.0	-25.0	-28.0	
		10372.00	-13.4	V	3.0	41.2	1.0	-53.5	-25.0	-28.5	
		5186.00	-17.6	H	3.0	43.0	1.0	-59.5	-25.0	-34.5	
		7779.00	-12.3	H	3.0	42.4	1.0	-53.8	-25.0	-28.8	
		10372.00	-13.4	H	3.0	41.2	1.0	-53.5	-25.0	-28.5	
		High Ch, 2685MHz									
		5370.00	-17.8	V	3.0	43.0	1.0	-59.8	-25.0	-34.8	
		8055.00	-15.0	V	3.0	42.3	1.0	-56.3	-25.0	-31.3	
		10740.00	-12.4	V	3.0	41.3	1.0	-52.7	-25.0	-27.7	
5370.00	-17.7	H	3.0	43.0	1.0	-59.6	-25.0	-34.6			
8055.00	-15.0	H	3.0	42.3	1.0	-56.3	-25.0	-31.3			
10740.00	-12.9	H	3.0	41.3	1.0	-53.2	-25.0	-28.2			
		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung Project #: 4791196575 Date: 2024-03-19 Test Engineer: 24542 Configuration: EUT / AC Adapter, Y-Position, Open Location: Chamber 1 Mode: LTE_QPSK Band 41 Harmonics, 20MHz Bandwidth Test Voltage: AC 120 V, 60 Hz									
		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
20 MHz	QPSK ANT E	Low Ch, 2506MHz									
		5012.00	-14.9	V	3.0	44.8	1.0	-58.7	-25.0	-33.7	
		7518.00	-12.1	V	3.0	44.9	1.0	-56.1	-25.0	-31.1	
		10024.00	-8.9	V	3.0	43.6	1.0	-51.6	-25.0	-26.6	
		5012.00	-14.8	H	3.0	44.8	1.0	-58.6	-25.0	-33.6	
		7518.00	-12.2	H	3.0	44.9	1.0	-56.1	-25.0	-31.1	
		10024.00	-8.7	H	3.0	43.6	1.0	-51.3	-25.0	-26.3	
		Mid Ch, 2593MHz									
		5186.00	-14.5	V	3.0	44.8	1.0	-58.3	-25.0	-33.3	
		7779.00	-11.3	V	3.0	44.8	1.0	-55.1	-25.0	-30.1	
		10372.00	-10.0	V	3.0	43.5	1.0	-52.6	-25.0	-27.6	
		5186.00	-14.5	H	3.0	44.8	1.0	-58.3	-25.0	-33.3	
		7779.00	-7.7	H	3.0	44.8	1.0	-51.5	-25.0	-26.5	
		10372.00	-10.2	H	3.0	43.5	1.0	-52.8	-25.0	-27.8	
		High Ch, 2680MHz									
		5360.00	-14.2	V	3.0	44.9	1.0	-58.0	-25.0	-33.0	
		8040.00	-11.8	V	3.0	44.7	1.0	-55.5	-25.0	-30.5	
		10720.00	-9.4	V	3.0	43.5	1.0	-51.9	-25.0	-26.9	
5360.00	-14.1	H	3.0	44.9	1.0	-58.0	-25.0	-33.0			
8040.00	-10.5	H	3.0	44.7	1.0	-54.2	-25.0	-29.2			
10720.00	-9.7	H	3.0	43.5	1.0	-52.1	-25.0	-27.1			

**LTE Band 41(UL CA)**

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung Project #: 4791196575 Date: 2024-03-20 Test Engineer: 28183 Configuration: EUT / AC Adapter, Z-Position, Open Location: Chamber 2 Mode: ULCA QPSK Band 41C Harmonics, 40MHz Bandwidth Test Voltage: AC 120 V, 60 Hz									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
20+20 MHz											
QPSK											
ANT B											
Low Ch, PCC : 2506 MHz SCC : 2525.8 MHz 5031.80 -18.5 V 3.0 42.9 1.0 -60.4 -25.0 -35.4 7547.70 -16.3 V 3.0 42.6 1.0 -57.9 -25.0 -32.9 10063.60 -13.4 V 3.0 41.0 1.0 -53.4 -25.0 -28.4 5031.80 -18.6 H 3.0 42.9 1.0 -60.5 -25.0 -35.5 7547.70 -15.9 H 3.0 42.6 1.0 -57.5 -25.0 -32.5 10063.60 -13.1 H 3.0 41.0 1.0 -53.1 -25.0 -28.1 Mid Ch, PCC : 2583.1 MHz SCC : 2602.9 MHz 5186.00 -18.6 V 3.0 43.0 1.0 -60.6 -25.0 -35.6 7779.00 -14.1 V 3.0 42.4 1.0 -55.5 -25.0 -30.5 10372.00 -13.3 V 3.0 41.2 1.0 -53.4 -25.0 -28.4 5186.00 -18.4 H 3.0 43.0 1.0 -60.4 -25.0 -35.4 7779.00 -15.6 H 3.0 42.4 1.0 -57.1 -25.0 -32.1 10372.00 -13.2 H 3.0 41.2 1.0 -53.4 -25.0 -28.4 High Ch PCC : 2660.2 MHz SCC : 2680 MHz 5340.20 -17.2 V 3.0 43.0 1.0 -59.2 -25.0 -34.2 8010.30 -14.5 V 3.0 42.3 1.0 -55.8 -25.0 -30.8 10680.40 -12.1 V 3.0 41.3 1.0 -52.4 -25.0 -27.4 5340.20 -17.6 H 3.0 43.0 1.0 -59.6 -25.0 -34.6 8010.30 -15.4 H 3.0 42.3 1.0 -56.8 -25.0 -31.8 10680.40 -12.7 H 3.0 41.3 1.0 -52.9 -25.0 -27.9											
		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4791196575 Date: 2024-03-28 Test Engineer: 24542 Configuration: EUT / AC Adapter, X-Position, FF Location: Chamber 1 Mode: ULCA QPSK Band 41C Harmonics, 40MHz Bandwidth Test Voltage: AC 120 V, 60 Hz									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
20+20 MHz											
QPSK											
ANT E											
Low Ch, PCC : 2506 MHz SCC : 2525.8 MHz 5031.80 -14.8 V 3.0 44.8 1.0 -58.6 -25.0 -33.6 7547.70 -0.5 V 3.0 44.9 1.0 -44.5 -25.0 -19.5 10063.60 -9.2 V 3.0 43.6 1.0 -51.8 -25.0 -26.8 5031.80 -14.6 H 3.0 44.8 1.0 -58.4 -25.0 -33.4 7547.70 -11.0 H 3.0 44.9 1.0 -55.0 -25.0 -30.0 10063.60 -10.0 H 3.0 43.6 1.0 -52.6 -25.0 -27.6 Mid Ch, PCC : 2583.1 MHz SCC : 2602.9 MHz 5186.00 -14.0 V 3.0 44.8 1.0 -57.9 -25.0 -32.9 7779.00 -0.7 V 3.0 44.8 1.0 -44.5 -25.0 -19.5 10372.00 -9.8 V 3.0 43.5 1.0 -52.4 -25.0 -27.4 5186.00 -14.5 H 3.0 44.8 1.0 -58.4 -25.0 -33.4 7779.00 -9.4 H 3.0 44.8 1.0 -53.2 -25.0 -28.2 10372.00 -9.6 H 3.0 43.5 1.0 -52.1 -25.0 -27.1 High Ch PCC : 2660.2 MHz SCC : 2680 MHz 5340.20 -14.4 V 3.0 44.9 1.0 -58.3 -25.0 -33.3 8010.30 -1.3 V 3.0 44.8 1.0 -45.1 -25.0 -20.1 10680.40 -8.9 V 3.0 43.5 1.0 -51.4 -25.0 -26.4 5340.20 -13.6 H 3.0 44.9 1.0 -57.5 -25.0 -32.5 8010.30 -6.9 H 3.0 44.8 1.0 -50.7 -25.0 -25.7 10680.40 -9.3 H 3.0 43.5 1.0 -51.8 -25.0 -26.8											

**LTE Band 66**

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement								
		Company: Samsung Project #: 4791196575 Date: 2024-02-26 Test Engineer: 26087 Configuration: EUT / AC Adapter, Y-Position, Open Location: Chamber 2 Mode: LTE_QPSK Band 66 Harmonics, 3MHz Bandwidth Test Voltage: AC 120 V, 60 Hz								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
3 MHz		Low Ch, 1711.5MHz 3423.00 -8.5 V 3.0 42.2 1.0 -49.7 -13.0 -36.7 5134.50 -8.8 V 3.0 42.9 1.0 -50.7 -13.0 -37.7 QPSK 6846.00 -5.8 V 3.0 42.9 1.0 -47.6 -13.0 -34.6 3423.00 -10.9 H 3.0 42.2 1.0 -52.1 -13.0 -39.1 ANT B 5134.50 -8.9 H 3.0 42.9 1.0 -50.8 -13.0 -37.8 6846.00 -6.1 H 3.0 42.9 1.0 -48.0 -13.0 -35.0 Mid Ch, 1745MHz 3490.00 -8.2 V 3.0 42.2 1.0 -49.4 -13.0 -36.4 5235.00 -7.1 V 3.0 43.0 1.0 -49.1 -13.0 -36.1 6980.00 -5.5 V 3.0 42.8 1.0 -47.3 -13.0 -34.3 3490.00 -8.0 H 3.0 42.2 1.0 -49.2 -13.0 -36.2 5235.00 -7.5 H 3.0 43.0 1.0 -49.4 -13.0 -36.4 6980.00 -5.9 H 3.0 42.8 1.0 -47.7 -13.0 -34.7 High Ch, 1778.5MHz 3557.00 -7.1 V 3.0 42.2 1.0 -48.3 -13.0 -35.3 5335.50 -8.0 V 3.0 43.0 1.0 -50.0 -13.0 -37.0 7114.00 -5.2 V 3.0 42.8 1.0 -47.0 -13.0 -34.0 3557.00 -7.0 H 3.0 42.2 1.0 -48.2 -13.0 -35.2 5335.50 -8.2 H 3.0 43.0 1.0 -50.2 -13.0 -37.2 7114.00 -5.6 H 3.0 42.8 1.0 -47.4 -13.0 -34.4								
		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4791196575 Date: 2024-03-10 Test Engineer: 28775 Configuration: EUT / AC Adapter, X-Position, HF Location: Chamber 2 Mode: LTE_QPSK Band 66 Harmonics, 3MHz Bandwidth Test Voltage: AC 120 V, 60 Hz								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
3 MHz		Low Ch, 1711.5MHz 3423.00 -8.6 V 3.0 42.2 1.0 -49.8 -13.0 -36.8 5134.50 -8.7 V 3.0 42.9 1.0 -50.7 -13.0 -37.7 QPSK 6846.00 -5.7 V 3.0 42.9 1.0 -47.5 -13.0 -34.5 3423.00 -10.3 H 3.0 42.2 1.0 -51.5 -13.0 -38.5 ANT E 5134.50 -8.9 H 3.0 42.9 1.0 -50.8 -13.0 -37.8 6846.00 -6.1 H 3.0 42.9 1.0 -47.9 -13.0 -34.9 Mid Ch, 1745MHz 3490.00 -8.2 V 3.0 42.2 1.0 -49.5 -13.0 -36.5 5235.00 -8.7 V 3.0 43.0 1.0 -50.6 -13.0 -37.6 6980.00 -5.5 V 3.0 42.8 1.0 -47.4 -13.0 -34.4 3490.00 -8.0 H 3.0 42.2 1.0 -49.2 -13.0 -36.2 5235.00 -8.3 H 3.0 43.0 1.0 -50.2 -13.0 -37.2 6980.00 -5.9 H 3.0 42.8 1.0 -47.8 -13.0 -34.8 High Ch, 1778.5MHz 3557.00 -7.1 V 3.0 42.2 1.0 -48.3 -13.0 -35.3 5335.50 -8.1 V 3.0 43.0 1.0 -50.1 -13.0 -37.1 7114.00 -5.3 V 3.0 42.8 1.0 -47.0 -13.0 -34.0 3557.00 -6.9 H 3.0 42.2 1.0 -48.2 -13.0 -35.2 5335.50 -8.1 H 3.0 43.0 1.0 -50.1 -13.0 -37.1 7114.00 -5.7 H 3.0 42.8 1.0 -47.5 -13.0 -34.5								



**LTE Band 66B (UL CA)**

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung Project #: 4791196575 Date: 2024-03-19 Test Engineer: 28183 Configuration: EUT / AC Adapter, Y-Position, HF Location: Chamber 2 Mode: ULCA QPSK Band 66B Harmonics, 20MHz Bandwidth Test Voltage: AC 120 V, 60 Hz									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
10+10 MHz											
QPSK											
ANT B											
Low Ch, PCC : 1715 MHz, SCC : 1724.9 MHz											
3439.90	-8.3	V	3.0	42.2	1.0	-49.5	-13.0	-36.5			
5159.85	-8.4	V	3.0	42.9	1.0	-50.3	-13.0	-37.3			
6879.80	-5.6	V	3.0	42.9	1.0	-47.5	-13.0	-34.5			
3439.90	-8.1	H	3.0	42.2	1.0	-49.3	-13.0	-36.3			
5159.85	-8.6	H	3.0	42.9	1.0	-50.5	-13.0	-37.5			
6879.80	-6.0	H	3.0	42.9	1.0	-47.8	-13.0	-34.8			
Mid Ch, PCC : 1740.1 MHz SCC : 1750 MHz											
3490.10	-8.1	V	3.0	42.2	1.0	-49.3	-13.0	-36.3			
5235.15	-6.2	V	3.0	43.0	1.0	-48.2	-13.0	-35.2			
6980.20	-5.4	V	3.0	42.8	1.0	-47.3	-13.0	-34.3			
3490.10	-7.9	H	3.0	42.2	1.0	-49.1	-13.0	-36.1			
5235.15	-7.3	H	3.0	43.0	1.0	-49.2	-13.0	-36.2			
6980.20	-5.9	H	3.0	42.8	1.0	-47.7	-13.0	-34.7			
High Ch, PCC : 1765.1 MHz, SCC : 1775 MHz											
3540.10	-7.2	V	3.0	42.2	1.0	-48.4	-13.0	-35.4			
5310.15	-8.0	V	3.0	43.0	1.0	-49.9	-13.0	-36.9			
7080.20	-5.3	V	3.0	42.8	1.0	-47.1	-13.0	-34.1			
3540.10	-7.1	H	3.0	42.2	1.0	-48.3	-13.0	-35.3			
5310.15	-8.2	H	3.0	43.0	1.0	-50.2	-13.0	-37.2			
7080.20	-5.8	H	3.0	42.8	1.0	-47.5	-13.0	-34.5			
UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement											
Company: Samsung Project #: 4791196575 Date: 2024-03-28 Test Engineer: 28775 Configuration: EUT / X-Position, Open Location: Chamber 1 Mode: ULCA QPSK Band 66B Harmonics, 20MHz Bandwidth Test Voltage: AC 120 V, 60 Hz											
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
10+10 MHz											
QPSK											
ANT E											
Low Ch, PCC : 1715 MHz, SCC : 1724.9 MHz											
3439.90	-9.4	V	3.0	44.0	1.0	-52.4	-13.0	-39.4			
5159.85	-8.3	V	3.0	44.8	1.0	-52.1	-13.0	-39.1			
6879.80	-6.7	V	3.0	45.1	1.0	-50.9	-13.0	-37.9			
3439.90	-9.2	H	3.0	44.0	1.0	-52.2	-13.0	-39.2			
5159.85	-7.3	H	3.0	44.8	1.0	-51.1	-13.0	-38.1			
6879.80	-6.6	H	3.0	45.1	1.0	-50.8	-13.0	-37.8			
Mid Ch, PCC : 1740.1 MHz SCC : 1750 MHz											
3490.10	-9.0	V	3.0	44.0	1.0	-52.0	-13.0	-39.0			
5235.15	-8.3	V	3.0	44.8	1.0	-52.2	-13.0	-39.2			
6980.20	-6.7	V	3.0	45.1	1.0	-50.8	-13.0	-37.8			
3490.10	-8.8	H	3.0	44.0	1.0	-51.8	-13.0	-38.8			
5235.15	-7.8	H	3.0	44.8	1.0	-51.6	-13.0	-38.6			
6980.20	-6.5	H	3.0	45.1	1.0	-50.6	-13.0	-37.6			
High Ch, PCC : 1765.1 MHz, SCC : 1775 MHz											
3540.10	-8.0	V	3.0	44.0	1.0	-51.1	-13.0	-38.1			
5310.15	-8.4	V	3.0	44.9	1.0	-52.3	-13.0	-39.3			
7080.20	-6.5	V	3.0	45.1	1.0	-50.6	-13.0	-37.6			
3540.10	-7.9	H	3.0	44.0	1.0	-50.9	-13.0	-37.9			
5310.15	-7.8	H	3.0	44.9	1.0	-51.7	-13.0	-38.7			
7080.20	-6.4	H	3.0	45.1	1.0	-50.5	-13.0	-37.5			

**LTE Band 66C (UL CA)**

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung Project #: 4791196575 Date: 2024-03-20 Test Engineer: 28183 Configuration: EUT / AC Adapter, Y-Position, HF Location: Chamber 2 Mode: ULCA QPSK Band 66C Harmonics, 40MHz Bandwidth Test Voltage: AC 120 V, 60 Hz									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
20+20MHz											
QPSK											
ANT B											
Low Ch, PCC : 1720 MHz, SCC : 1739.8 MHz											
3459.80	-8.4	V	3.0	42.2	1.0	-49.6	-13.0	-36.6			
5189.70	-7.7	V	3.0	43.0	1.0	-49.7	-13.0	-36.7			
6919.60	-5.6	V	3.0	42.9	1.0	-47.4	-13.0	-34.4			
3459.80	-8.2	H	3.0	42.2	1.0	-49.4	-13.0	-36.4			
5189.70	-6.9	H	3.0	43.0	1.0	-48.8	-13.0	-35.8			
6919.60	-6.1	H	3.0	42.9	1.0	-47.9	-13.0	-34.9			
Mid Ch, PCC : 1735 MHz SCC : 1754.9 MHz											
3490.00	-8.2	V	3.0	42.2	1.0	-49.4	-13.0	-36.4			
5235.00	-6.7	V	3.0	43.0	1.0	-48.6	-13.0	-35.6			
6980.00	-5.4	V	3.0	42.8	1.0	-47.3	-13.0	-34.3			
3490.00	-7.8	H	3.0	42.2	1.0	-49.0	-13.0	-36.0			
5235.00	-6.0	H	3.0	43.0	1.0	-47.9	-13.0	-34.9			
6980.00	-5.9	H	3.0	42.8	1.0	-47.7	-13.0	-34.7			
High Ch, PCC : 1750.2 MHz, SCC : 1770 MHz											
3520.20	-7.6	V	3.0	42.2	1.0	-48.8	-13.0	-35.8			
5280.30	-7.8	V	3.0	43.0	1.0	-49.8	-13.0	-36.8			
7040.40	-5.2	V	3.0	42.8	1.0	-47.0	-13.0	-34.0			
3520.20	-7.5	H	3.0	42.2	1.0	-48.7	-13.0	-35.7			
5280.30	-7.3	H	3.0	43.0	1.0	-49.3	-13.0	-36.3			
7040.40	-5.5	H	3.0	42.8	1.0	-47.3	-13.0	-34.3			
		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung Project #: 4791196575 Date: 2024-03-28 Test Engineer: 24542 Configuration: EUT / AC Adapter, Z-Position, HF Location: Chamber 1 Mode: ULCA QPSK Band 66C Harmonics, 40MHz Bandwidth Test Voltage: AC 120 V, 60 Hz									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
20+20MHz											
QPSK											
ANT E											
Low Ch, PCC : 1720 MHz, SCC : 1739.8 MHz											
3459.80	-8.2	V	3.0	44.0	1.0	-51.2	-13.0	-38.2			
5189.70	-6.3	V	3.0	44.8	1.0	-50.2	-13.0	-37.2			
6919.60	-3.7	V	3.0	45.1	1.0	-47.9	-13.0	-34.9			
3459.80	-8.0	H	3.0	44.0	1.0	-51.0	-13.0	-38.0			
5189.70	-6.6	H	3.0	44.8	1.0	-50.4	-13.0	-37.4			
6919.60	-3.6	H	3.0	45.1	1.0	-47.7	-13.0	-34.7			
Mid Ch, PCC : 1735 MHz SCC : 1754.9 MHz											
3490.00	-8.0	V	3.0	44.0	1.0	-51.0	-13.0	-38.0			
5235.00	-0.1	V	3.0	44.8	1.0	-43.9	-13.0	-30.9			
6980.00	-3.9	V	3.0	45.1	1.0	-48.1	-13.0	-35.1			
3490.00	-7.9	H	3.0	44.0	1.0	-50.9	-13.0	-37.9			
5235.00	0.3	H	3.0	44.8	1.0	-43.6	-13.0	-30.6			
6980.00	-3.8	H	3.0	45.1	1.0	-48.0	-13.0	-35.0			
High Ch, PCC : 1750.2 MHz, SCC : 1770 MHz											
3520.20	-10.2	V	3.0	44.0	1.0	-53.2	-13.0	-40.2			
5280.30	-5.7	V	3.0	44.9	1.0	-49.5	-13.0	-36.5			
7040.40	-3.8	V	3.0	45.1	1.0	-47.9	-13.0	-34.9			
3520.20	-7.8	H	3.0	44.0	1.0	-50.8	-13.0	-37.8			
5280.30	-2.2	H	3.0	44.9	1.0	-46.0	-13.0	-33.0			
7040.40	-3.5	H	3.0	45.1	1.0	-47.7	-13.0	-34.7			

**LTE Band 71**

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
		Company: Samsung Project #: 4791196575 Date: 2024-02-26 Test Engineer: 28775 Configuration: EUT / AC Adapter, Z-Position, HF Location: Chamber 1 Mode: LTE_QPSK Band 71 Harmonics, 20MHz Bandwidth Test Voltage: AC 120 V, 60 Hz										
		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
20 MHz  QPSK  ANT A+B	Low Ch, 673MHz											
		1346.00	-16.6	V	3.0	43.3	1.0	-58.8	-13.0	-45.8		
		2019.00	-13.6	V	3.0	43.4	1.0	-56.0	-13.0	-43.0		
		2692.00	-11.3	V	3.0	43.7	1.0	-54.0	-13.0	-41.0		
		1346.00	-18.1	H	3.0	43.3	1.0	-60.4	-13.0	-47.4		
		2019.00	-14.6	H	3.0	43.4	1.0	-57.0	-13.0	-44.0		
		2692.00	-11.3	H	3.0	43.7	1.0	-54.0	-13.0	-41.0		
	Mid Ch, 680.5MHz											
		1361.00	-16.6	V	3.0	43.3	1.0	-58.8	-13.0	-45.8		
		2041.50	-13.4	V	3.0	43.4	1.0	-55.8	-13.0	-42.8		
		2722.00	-11.2	V	3.0	43.7	1.0	-53.9	-13.0	-40.9		
		1361.00	-18.1	H	3.0	43.3	1.0	-60.4	-13.0	-47.4		
		2041.50	-14.4	H	3.0	43.4	1.0	-56.8	-13.0	-43.8		
		2722.00	-11.4	H	3.0	43.7	1.0	-54.0	-13.0	-41.0		
	High Ch, 688MHz											
		1376.00	-16.6	V	3.0	43.3	1.0	-58.8	-13.0	-45.8		
		2064.00	-13.3	V	3.0	43.4	1.0	-55.7	-13.0	-42.7		
		2752.00	-10.9	V	3.0	43.7	1.0	-53.6	-13.0	-40.6		
		1376.00	-18.0	H	3.0	43.3	1.0	-60.3	-13.0	-47.3		
		2064.00	-14.1	H	3.0	43.4	1.0	-56.5	-13.0	-43.5		
		2752.00	-11.0	H	3.0	43.7	1.0	-53.6	-13.0	-40.6		
			UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
			Company: Samsung Project #: 4791196575 Date: 2024-02-29 Test Engineer: 27089 Configuration: EUT / AC Adapter, X-Position, FF Location: Chamber 1 Mode: LTE_QPSK Band 71 Harmonics, 20MHz Bandwidth Test Voltage: AC 120 V, 60 Hz									
		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
20 MHz  QPSK  ANT A	Low Ch, 673MHz											
		1346.00	-16.9	V	3.0	43.3	1.0	-59.1	-13.0	-46.1		
		2019.00	-13.3	V	3.0	43.4	1.0	-55.7	-13.0	-42.7		
		2692.00	-11.6	V	3.0	43.7	1.0	-54.2	-13.0	-41.2		
		1346.00	-17.9	H	3.0	43.3	1.0	-60.1	-13.0	-47.1		
		2019.00	-12.7	H	3.0	43.4	1.0	-55.1	-13.0	-42.1		
		2692.00	-11.5	H	3.0	43.7	1.0	-54.2	-13.0	-41.2		
	Mid Ch, 680.5MHz											
		1361.00	-16.9	V	3.0	43.3	1.0	-59.1	-13.0	-46.1		
		2041.50	-13.5	V	3.0	43.4	1.0	-55.9	-13.0	-42.9		
		2722.00	-11.3	V	3.0	43.7	1.0	-54.0	-13.0	-41.0		
		1361.00	-17.8	H	3.0	43.3	1.0	-60.1	-13.0	-47.1		
		2041.50	-11.8	H	3.0	43.4	1.0	-54.3	-13.0	-41.3		
		2722.00	-11.3	H	3.0	43.7	1.0	-54.0	-13.0	-41.0		
	High Ch, 688MHz											
		1376.00	-16.6	V	3.0	43.3	1.0	-58.8	-13.0	-45.8		
		2064.00	-13.1	V	3.0	43.4	1.0	-55.5	-13.0	-42.5		
		2752.00	-11.0	V	3.0	43.7	1.0	-53.7	-13.0	-40.7		
		1376.00	-18.0	H	3.0	43.3	1.0	-60.3	-13.0	-47.3		
		2064.00	-13.4	H	3.0	43.4	1.0	-55.8	-13.0	-42.8		
		2752.00	-11.0	H	3.0	43.7	1.0	-53.7	-13.0	-40.7		

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		<b>Company:</b>	Samsung						
		<b>Project #:</b>	4791196575						
		<b>Date:</b>	2024-04-27						
		<b>Test Engineer:</b>	27089						
		<b>Configuration:</b>	EUT / AC Adapter, Y-Position, HF						
		<b>Location:</b>	Chamber 2						
		<b>Mode:</b>	LTE_QPSK Band 71 Harmonics, 20MHz Bandwidth						
		<b>Test Voltage:</b>	AC 120 V, 60 Hz						
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>20 MHz</b>									
<b>QPSK</b>									
<b>ANT D</b>									
<b>Low Ch, 673MHz</b>									
1346.00	-16.7	V	3.0	40.9	1.0	-56.5	-13.0	-43.5	
2019.00	-10.5	V	3.0	40.8	1.0	-50.3	-13.0	-37.3	
2692.00	-10.9	V	3.0	41.7	1.0	-51.7	-13.0	-38.7	
1346.00	-17.6	H	3.0	40.9	1.0	-57.5	-13.0	-44.5	
2019.00	-9.1	H	3.0	40.8	1.0	-48.8	-13.0	-35.8	
2692.00	-10.5	H	3.0	41.7	1.0	-51.3	-13.0	-38.3	
<b>Mid Ch, 680.5MHz</b>									
1361.00	-16.6	V	3.0	40.9	1.0	-56.5	-13.0	-43.5	
2041.50	-9.1	V	3.0	40.8	1.0	-48.9	-13.0	-35.9	
2722.00	-10.7	V	3.0	41.8	1.0	-51.5	-13.0	-38.5	
1361.00	-17.6	H	3.0	40.9	1.0	-57.5	-13.0	-44.5	
2041.50	-7.2	H	3.0	40.8	1.0	-47.0	-13.0	-34.0	
2722.00	-10.3	H	3.0	41.8	1.0	-51.1	-13.0	-38.1	
<b>High Ch, 688MHz</b>									
1376.00	-16.6	V	3.0	40.9	1.0	-56.5	-13.0	-43.5	
2064.00	-10.4	V	3.0	40.8	1.0	-50.2	-13.0	-37.2	
2752.00	-10.8	V	3.0	41.8	1.0	-51.6	-13.0	-38.6	
1376.00	-17.6	H	3.0	40.9	1.0	-57.5	-13.0	-44.5	
2064.00	-11.1	H	3.0	40.8	1.0	-50.9	-13.0	-37.9	
2752.00	-10.2	H	3.0	41.8	1.0	-51.1	-13.0	-38.1	

**NR Band n7 DFT-s OFDM**

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung Project #: 4791196575 Date: 2024-03-07 Test Engineer: 28775 Configuration: EUT / AC Adapter, Z-Position, HF Location: Chamber 2 Mode: 5G NR_QPSK NR n7 Harmonics, 40MHz Bandwidth Test Voltage: AC 120 V, 60 Hz									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
40 MHz											
QPSK											
ANT B											
Low Ch, 2520MHz											
5040.00	-19.8	V	3.0	42.9	1.0	-61.7	-25.0	-36.7			
7560.00	-12.7	V	3.0	42.6	1.0	-54.3	-25.0	-29.3			
10080.00	-16.6	V	3.0	41.0	1.0	-56.6	-25.0	-31.6			
5040.00	-19.0	H	3.0	42.9	1.0	-60.9	-25.0	-35.9			
7560.00	-10.4	H	3.0	42.6	1.0	-51.9	-25.0	-26.9			
10080.00	-16.7	H	3.0	41.0	1.0	-56.7	-25.0	-31.7			
Mid Ch, 2535MHz											
5070.00	-21.5	V	3.0	42.9	1.0	-63.4	-25.0	-38.4			
7605.00	-9.8	V	3.0	42.5	1.0	-51.3	-25.0	-26.3			
10140.00	-16.4	V	3.0	41.1	1.0	-56.4	-25.0	-31.4			
5070.00	-20.9	H	3.0	42.9	1.0	-62.9	-25.0	-37.9			
7605.00	-12.7	H	3.0	42.5	1.0	-54.2	-25.0	-29.2			
10140.00	-16.5	H	3.0	41.1	1.0	-56.5	-25.0	-31.5			
High Ch, 2550MHz											
5100.00	-21.5	V	3.0	42.9	1.0	-63.4	-25.0	-38.4			
7650.00	-17.6	V	3.0	42.5	1.0	-59.2	-25.0	-34.2			
10200.00	-16.3	V	3.0	41.1	1.0	-56.4	-25.0	-31.4			
5100.00	-20.9	H	3.0	42.9	1.0	-62.8	-25.0	-37.8			
7650.00	-18.9	H	3.0	42.5	1.0	-60.4	-25.0	-35.4			
10200.00	-16.5	H	3.0	41.1	1.0	-56.6	-25.0	-31.6			
UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement											
Company: Samsung Project #: 4791196575 Date: 2024-03-12 Test Engineer: 24542 Configuration: EUT / AC Adapter, Y-Position, FF Location: Chamber 1 Mode: 5G NR_QPSK NR n7 Harmonics, 25MHz Bandwidth Test Voltage: AC 120 V, 60 Hz											
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
25 MHz											
QPSK											
ANT E											
Low Ch, 2512.5MHz											
5025.00	-17.0	V	3.0	44.8	1.0	-60.8	-25.0	-35.8			
7537.50	-14.1	V	3.0	44.9	1.0	-58.1	-25.0	-33.1			
10050.00	-13.2	V	3.0	43.6	1.0	-55.8	-25.0	-30.8			
5025.00	-17.5	H	3.0	44.8	1.0	-61.2	-25.0	-36.2			
7537.50	-10.7	H	3.0	44.9	1.0	-54.6	-25.0	-29.6			
10050.00	-13.1	H	3.0	43.6	1.0	-55.7	-25.0	-30.7			
Mid Ch, 2535MHz											
5070.00	-16.2	V	3.0	44.8	1.0	-60.0	-25.0	-35.0			
7605.00	-10.3	V	3.0	44.9	1.0	-54.2	-25.0	-29.2			
10140.00	-13.1	V	3.0	43.6	1.0	-55.7	-25.0	-30.7			
5070.00	-17.2	H	3.0	44.8	1.0	-61.0	-25.0	-36.0			
7605.00	-10.3	H	3.0	44.9	1.0	-54.2	-25.0	-29.2			
10140.00	-12.9	H	3.0	43.6	1.0	-55.5	-25.0	-30.5			
High Ch, 2557.5MHz											
5115.00	-17.1	V	3.0	44.8	1.0	-60.9	-25.0	-35.9			
7672.50	-13.4	V	3.0	44.9	1.0	-57.3	-25.0	-32.3			
10230.00	-13.2	V	3.0	43.6	1.0	-55.7	-25.0	-30.7			
5115.00	-16.9	H	3.0	44.8	1.0	-60.7	-25.0	-35.7			
7672.50	-14.5	H	3.0	44.9	1.0	-58.3	-25.0	-33.3			
10230.00	-12.4	H	3.0	43.6	1.0	-55.0	-25.0	-30.0			

**NR Band n12 DFT-s OFDM**

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement							
		Company: Samsung Project #: 4791196575 Date: 2024-02-26 Test Engineer: 24542 Configuration: EUT / AC Adapter, Z-Position, FF Location: Chamber 1 Mode: 5G NR_QPSK NR n12 Harmonics, 15MHz Bandwidth Test Voltage: AC 120 V, 60 Hz							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
15 MHz QPSK ANT A+B									
Low Ch, 706.5MHz									
1413.00	-16.2	V	3.0	43.3	1.0	-58.5	-13.0	-45.5	
2119.50	-10.6	V	3.0	43.4	1.0	-53.1	-13.0	-40.1	
2826.00	-10.6	V	3.0	43.7	1.0	-53.3	-13.0	-40.3	
1413.00	-17.7	H	3.0	43.3	1.0	-59.9	-13.0	-46.9	
2119.50	-10.9	H	3.0	43.4	1.0	-53.3	-13.0	-40.3	
2826.00	-10.6	H	3.0	43.7	1.0	-53.3	-13.0	-40.3	
Mid Ch, 707.5MHz									
1415.00	-14.5	V	3.0	43.3	1.0	-56.8	-13.0	-43.8	
2122.50	-9.7	V	3.0	43.4	1.0	-52.2	-13.0	-39.2	
2830.00	-10.8	V	3.0	43.7	1.0	-53.5	-13.0	-40.5	
1415.00	-16.8	H	3.0	43.3	1.0	-59.1	-13.0	-46.1	
2122.50	-9.3	H	3.0	43.4	1.0	-51.7	-13.0	-38.7	
2830.00	-10.6	H	3.0	43.7	1.0	-53.3	-13.0	-40.3	
High Ch, 708.5MHz									
1417.00	-15.0	V	3.0	43.3	1.0	-57.3	-13.0	-44.3	
2125.50	-11.0	V	3.0	43.4	1.0	-53.4	-13.0	-40.4	
2834.00	-10.6	V	3.0	43.7	1.0	-53.3	-13.0	-40.3	
1417.00	-17.2	H	3.0	43.3	1.0	-59.4	-13.0	-46.4	
2125.50	-10.4	H	3.0	43.4	1.0	-52.9	-13.0	-39.9	
2834.00	-10.7	H	3.0	43.7	1.0	-53.4	-13.0	-40.4	
		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement							
		Company: Samsung Project #: 4791196575 Date: 2024-03-10 Test Engineer: 26087 Configuration: EUT / AC Adapter, Y-Position, FF Location: Chamber 1 Mode: 5G NR_QPSK NR n12 Harmonics, 15MHz Bandwidth Test Voltage: AC 120 V, 60 Hz							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
15 MHz QPSK ANT A									
Low Ch, 706.5MHz									
1413.00	-16.3	V	3.0	43.3	1.0	-58.5	-13.0	-45.5	
2119.50	-12.3	V	3.0	43.4	1.0	-54.7	-13.0	-41.7	
2826.00	-10.5	V	3.0	43.7	1.0	-53.2	-13.0	-40.2	
1413.00	-17.6	H	3.0	43.3	1.0	-59.9	-13.0	-46.9	
2119.50	-13.0	H	3.0	43.4	1.0	-55.4	-13.0	-42.4	
2826.00	-10.4	H	3.0	43.7	1.0	-53.1	-13.0	-40.1	
Mid Ch, 707.5MHz									
1415.00	-16.7	V	3.0	43.3	1.0	-59.0	-13.0	-46.0	
2122.50	-12.0	V	3.0	43.4	1.0	-54.5	-13.0	-41.5	
2830.00	-10.5	V	3.0	43.7	1.0	-53.2	-13.0	-40.2	
1415.00	-17.6	H	3.0	43.3	1.0	-59.9	-13.0	-46.9	
2122.50	-12.7	H	3.0	43.4	1.0	-55.2	-13.0	-42.2	
2830.00	-10.6	H	3.0	43.7	1.0	-53.3	-13.0	-40.3	
High Ch, 708.5MHz									
1417.00	-16.3	V	3.0	43.3	1.0	-58.5	-13.0	-45.5	
2125.50	-12.3	V	3.0	43.4	1.0	-54.7	-13.0	-41.7	
2834.00	-10.6	V	3.0	43.7	1.0	-53.3	-13.0	-40.3	
1417.00	-17.6	H	3.0	43.3	1.0	-59.8	-13.0	-46.8	
2125.50	-13.1	H	3.0	43.4	1.0	-55.5	-13.0	-42.5	
2834.00	-10.3	H	3.0	43.7	1.0	-53.1	-13.0	-40.1	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
<b>Company:</b>		Samsung							
<b>Project #:</b>		4791196575							
<b>Date:</b>		2024-04-26							
<b>Test Engineer:</b>		28183							
<b>Configuration:</b>		EUT / AC Adapter, X-Position, Open							
<b>Location:</b>		Chamber 2							
<b>Mode:</b>		5G NR_QPSK NR n12 Harmonics, 10MHz Bandwidth							
<b>Test Voltage:</b>		AC 120 V, 60 Hz							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>10 MHz</b>									
<b>QPSK</b>									
<b>ANT D</b>									
<b>Low Ch, 704MHz</b>									
1408.00	-16.2	V	3.0	40.9	1.0	-56.0	-13.0	-43.0	
2112.00	-11.2	V	3.0	40.9	1.0	-51.1	-13.0	-38.1	
2816.00	-10.7	V	3.0	41.9	1.0	-51.6	-13.0	-38.6	
1408.00	-17.2	H	3.0	40.9	1.0	-57.1	-13.0	-44.1	
2112.00	-10.2	H	3.0	40.9	1.0	-50.1	-13.0	-37.1	
2816.00	-9.8	H	3.0	41.9	1.0	-50.8	-13.0	-37.8	
<b>Mid Ch, 707.5MHz</b>									
1415.00	-16.2	V	3.0	40.9	1.0	-56.1	-13.0	-43.1	
2122.50	-6.6	V	3.0	40.9	1.0	-46.5	-13.0	-33.5	
2830.00	-10.4	V	3.0	41.9	1.0	-51.3	-13.0	-38.3	
1415.00	-17.1	H	3.0	40.9	1.0	-57.0	-13.0	-44.0	
2122.50	-3.8	H	3.0	40.9	1.0	-43.7	-13.0	-30.7	
2830.00	-9.9	H	3.0	41.9	1.0	-50.8	-13.0	-37.8	
<b>High Ch, 711MHz</b>									
1422.00	-16.1	V	3.0	40.9	1.0	-56.0	-13.0	-43.0	
2133.00	-11.1	V	3.0	40.9	1.0	-51.1	-13.0	-38.1	
2844.00	-10.2	V	3.0	42.0	1.0	-51.2	-13.0	-38.2	
1422.00	-17.2	H	3.0	40.9	1.0	-57.1	-13.0	-44.1	
2133.00	-10.7	H	3.0	40.9	1.0	-50.7	-13.0	-37.7	
2844.00	-9.6	H	3.0	42.0	1.0	-50.6	-13.0	-37.6	

**NR Band n30 DFT-s OFDM**

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
		Company: Samsung Project #: 4791196575 Date: 2024-02-27 Test Engineer: 24542 Configuration: EUT / AC Adapter, Z-Position, Open Location: Chamber 1 Mode: 5G NR_QPSK NR n30 Harmonics, 5MHz Bandwidth Test Voltage: AC 120 V, 60 Hz										
5 MHz  QPSK  ANT B		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
	Low Ch, 2307.5MHz											
		4615.00	-19.7	V	3.0	44.6	1.0	-63.3	-40.0	-23.3		
		6922.50	-17.9	V	3.0	45.1	1.0	-62.0	-40.0	-22.0		
		9230.00	-16.4	V	3.0	44.1	1.0	-59.4	-40.0	-19.4		
		4615.00	-18.3	H	3.0	44.6	1.0	-61.9	-40.0	-21.9		
		6922.50	-17.8	H	3.0	45.1	1.0	-61.9	-40.0	-21.9		
		9230.00	-15.8	H	3.0	44.1	1.0	-58.9	-40.0	-18.9		
	Mid Ch, 2310MHz											
		4620.00	-19.7	V	3.0	44.6	1.0	-63.3	-40.0	-23.3		
		6930.00	-18.0	V	3.0	45.1	1.0	-62.2	-40.0	-22.2		
		9240.00	-16.5	V	3.0	44.1	1.0	-59.5	-40.0	-19.5		
		4620.00	-18.4	H	3.0	44.6	1.0	-61.9	-40.0	-21.9		
		6930.00	-17.9	H	3.0	45.1	1.0	-62.0	-40.0	-22.0		
		9240.00	-15.6	H	3.0	44.1	1.0	-58.7	-40.0	-18.7		
	High Ch, 2312.5MHz											
		4625.00	-19.6	V	3.0	44.6	1.0	-63.2	-40.0	-23.2		
		6937.50	-18.3	V	3.0	45.1	1.0	-62.4	-40.0	-22.4		
		9250.00	-16.8	V	3.0	44.0	1.0	-59.9	-40.0	-19.9		
		4625.00	-18.2	H	3.0	44.6	1.0	-61.7	-40.0	-21.7		
		6937.50	-18.1	H	3.0	45.1	1.0	-62.2	-40.0	-22.2		
		9250.00	-15.9	H	3.0	44.0	1.0	-59.0	-40.0	-19.0		
			UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
			Company: Samsung Project #: 4791196575 Date: 2024-04-19 Test Engineer: 24542 Configuration: EUT / AC Adapter, Z-Position, HF Location: Chamber 1 Mode: 5G NR_QPSK NR n30 Harmonics, 10MHz Bandwidth Test Voltage: AC 120 V, 60 Hz									
	10 MHz  QPSK  ANT E		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
		Mid Ch, 2310MHz										
			4620.00	-5.5	V	3.0	44.6	1.0	-49.1	-40.0	-9.1	
			6930.00	-15.9	V	3.0	45.1	1.0	-60.0	-40.0	-20.0	
		9240.00	-17.0	V	3.0	44.1	1.0	-60.0	-40.0	-20.0		
		4620.00	-6.3	H	3.0	44.6	1.0	-49.9	-40.0	-9.9		
		6930.00	-18.2	H	3.0	45.1	1.0	-62.4	-40.0	-22.4		
		9240.00	-16.9	H	3.0	44.1	1.0	-60.0	-40.0	-20.0		



**NR Band n41 DFT-s OFDM (PC2) (ANT B)**

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung Project #: 4791196575 Date: 2024-03-18 Test Engineer: 24542 Configuration: EUT / AC Adapter, X-Position, FF Location: Chamber 1 Mode: 5G NR_QPSK NR n41 Harmonics, 10MHz Bandwidth Test Voltage: AC 120 V, 60 Hz									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
10 MHz QPSK ANT B											
Low Ch, 2501.01MHz											
5002.02	-14.9	V	3.0	44.8	1.0	-58.7	-25.0	-33.7			
7503.03	-6.8	V	3.0	45.0	1.0	-50.8	-25.0	-25.8			
10004.04	-8.5	V	3.0	43.6	1.0	-51.2	-25.0	-26.2			
5002.02	-14.9	H	3.0	44.8	1.0	-58.7	-25.0	-33.7			
7503.03	-7.1	H	3.0	45.0	1.0	-51.0	-25.0	-26.0			
10004.04	-10.2	H	3.0	43.6	1.0	-52.8	-25.0	-27.8			
Mid Ch, 2592.99MHz											
5185.98	-14.1	V	3.0	44.8	1.0	-57.9	-25.0	-32.9			
7778.97	-7.7	V	3.0	44.8	1.0	-51.5	-25.0	-26.5			
10371.96	-8.9	V	3.0	43.5	1.0	-51.4	-25.0	-26.4			
5185.98	-13.4	H	3.0	44.8	1.0	-57.2	-25.0	-32.2			
7778.97	-5.0	H	3.0	44.8	1.0	-48.8	-25.0	-23.8			
10371.96	-10.1	H	3.0	43.5	1.0	-52.6	-25.0	-27.6			
High Ch, 2685MHz											
5370.00	-14.4	V	3.0	44.9	1.0	-58.3	-25.0	-33.3			
8055.00	-8.1	V	3.0	44.7	1.0	-51.8	-25.0	-26.8			
10740.00	-9.8	V	3.0	43.5	1.0	-52.2	-25.0	-27.2			
5370.00	-14.3	H	3.0	44.9	1.0	-58.2	-25.0	-33.2			
8055.00	-6.8	H	3.0	44.7	1.0	-50.5	-25.0	-25.5			
10740.00	-6.4	H	3.0	43.5	1.0	-48.9	-25.0	-23.9			
		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung Project #: 4791196575 Date: 2024-04-03 Test Engineer: 24542 Configuration: EUT / AC Adapter, Y-Position, HF Location: Chamber 1 Mode: 5G NR n41(SRS) Harmonics, 50MHz Bandwidth Test Voltage: AC 120 V, 60 Hz									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
50 MHz ANT C SRS1											
Low Ch, 2521.01MHz											
5042.02	-17.4	V	3.0	44.8	1.0	-61.1	-25.0	-36.1			
7563.03	-13.0	V	3.0	44.9	1.0	-57.0	-25.0	-32.0			
10084.04	-13.1	V	3.0	43.6	1.0	-55.7	-25.0	-30.7			
5042.02	-17.4	H	3.0	44.8	1.0	-61.2	-25.0	-36.2			
7563.03	-14.8	H	3.0	44.9	1.0	-58.7	-25.0	-33.7			
10084.04	-12.7	H	3.0	43.6	1.0	-55.3	-25.0	-30.3			
Mid Ch, 2592.99MHz											
5185.98	-17.3	V	3.0	44.8	1.0	-61.1	-25.0	-36.1			
7778.97	-15.0	V	3.0	44.8	1.0	-58.8	-25.0	-33.8			
10371.96	-13.1	V	3.0	43.5	1.0	-55.7	-25.0	-30.7			
5185.98	-17.3	H	3.0	44.8	1.0	-61.1	-25.0	-36.1			
7778.97	-14.9	H	3.0	44.8	1.0	-58.8	-25.0	-33.8			
10371.96	-11.4	H	3.0	43.5	1.0	-54.0	-25.0	-29.0			
High Ch, 2665MHz											
5330.00	-18.8	V	3.0	44.9	1.0	-62.7	-25.0	-37.7			
7995.00	-14.5	V	3.0	44.8	1.0	-58.2	-25.0	-33.2			
10660.00	-12.6	V	3.0	43.5	1.0	-55.1	-25.0	-30.1			
5330.00	-16.9	H	3.0	44.9	1.0	-60.7	-25.0	-35.7			
7995.00	-14.5	H	3.0	44.8	1.0	-58.2	-25.0	-33.2			
10660.00	-12.4	H	3.0	43.5	1.0	-54.9	-25.0	-29.9			

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement								
10 MHz ANT G SRS2	Company:	Samsung								
	Project #:	4791196575								
	Date:	2024-04-04								
	Test Engineer:	24542								
	Configuration:	EUT / AC Adapter, Z-Position, HF								
	Location:	Chamber 1								
	Mode:	5G NR n41(SRS) Harmonics, 10MHz Bandwidth								
	Test Votage:	AC 120 V, 60 Hz								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 2501.01MHz									
	5002.02	-17.4	V	3.0	44.8	1.0	-61.2	-25.0	-36.2	
	7503.03	-14.6	V	3.0	45.0	1.0	-58.6	-25.0	-33.6	
	10004.04	-12.9	V	3.0	43.6	1.0	-55.6	-25.0	-30.6	
	5002.02	-17.4	H	3.0	44.8	1.0	-61.1	-25.0	-36.1	
	7503.03	-14.5	H	3.0	45.0	1.0	-58.4	-25.0	-33.4	
	10004.04	-12.6	H	3.0	43.6	1.0	-55.2	-25.0	-30.2	
	Mid Ch, 2592.99MHz									
	5185.98	-17.3	V	3.0	44.8	1.0	-61.1	-25.0	-36.1	
	7778.97	-14.2	V	3.0	44.8	1.0	-58.1	-25.0	-33.1	
	10371.96	-12.6	V	3.0	43.5	1.0	-55.2	-25.0	-30.2	
	5185.98	-17.4	H	3.0	44.8	1.0	-61.2	-25.0	-36.2	
	7778.97	-14.5	H	3.0	44.8	1.0	-58.4	-25.0	-33.4	
	10371.96	-12.9	H	3.0	43.5	1.0	-55.4	-25.0	-30.4	
	High Ch, 2685MHz									
	5370.00	-16.7	V	3.0	44.9	1.0	-60.6	-25.0	-35.6	
	8055.00	-14.5	V	3.0	44.7	1.0	-58.2	-25.0	-33.2	
	10740.00	-12.6	V	3.0	43.5	1.0	-55.1	-25.0	-30.1	
	5370.00	-16.7	H	3.0	44.9	1.0	-60.6	-25.0	-35.6	
8055.00	-14.5	H	3.0	44.7	1.0	-58.3	-25.0	-33.3		
10740.00	-12.5	H	3.0	43.5	1.0	-55.0	-25.0	-30.0		
		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement								
50 MHz ANT E SRS3	Company:	Samsung								
	Project #:	4791196575								
	Date:	2024-04-04								
	Test Engineer:	24542								
	Configuration:	EUT / AC Adapter, X-Position, HF								
	Location:	Chamber 1								
	Mode:	5G NR n41(SRS) Harmonics, 50MHz Bandwidth								
	Test Votage:	AC 120 V, 60 Hz								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 2521.01MHz									
	5042.02	-17.2	V	3.0	44.8	1.0	-61.0	-25.0	-36.0	
	7563.03	-14.8	V	3.0	44.9	1.0	-58.7	-25.0	-33.7	
	10084.04	-13.0	V	3.0	43.6	1.0	-55.6	-25.0	-30.6	
	5042.02	-17.3	H	3.0	44.8	1.0	-61.0	-25.0	-36.0	
	7563.03	-13.6	H	3.0	44.9	1.0	-57.5	-25.0	-32.5	
	10084.04	-12.8	H	3.0	43.6	1.0	-55.4	-25.0	-30.4	
	Mid Ch, 2592.99MHz									
	5185.98	-17.4	V	3.0	44.8	1.0	-61.2	-25.0	-36.2	
	7778.97	-14.7	V	3.0	44.8	1.0	-58.6	-25.0	-33.6	
	10371.96	-12.8	V	3.0	43.5	1.0	-55.4	-25.0	-30.4	
	5185.98	-17.4	H	3.0	44.8	1.0	-61.2	-25.0	-36.2	
	7778.97	-14.6	H	3.0	44.8	1.0	-58.4	-25.0	-33.4	
	10371.96	-12.7	H	3.0	43.5	1.0	-55.3	-25.0	-30.3	
	High Ch, 2665MHz									
	5330.00	-16.8	V	3.0	44.9	1.0	-60.7	-25.0	-35.7	
	7995.00	-14.4	V	3.0	44.8	1.0	-58.2	-25.0	-33.2	
	10660.00	-12.6	V	3.0	43.5	1.0	-55.1	-25.0	-30.1	
	5330.00	-16.8	H	3.0	44.9	1.0	-60.7	-25.0	-35.7	
7995.00	-12.7	H	3.0	44.8	1.0	-56.5	-25.0	-31.5		
10660.00	-12.1	H	3.0	43.5	1.0	-54.6	-25.0	-29.6		

**NR Band n41 DFT-s OFDM (PC2) (ANT E)**

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
100 MHz	QPSK ANT E	Company: Samsung									
		Project #: 4791196575									
		Date: 2024-03-15									
		Test Engineer: 24542									
		Configuration: EUT / AC Adapter, Y-Position, Open									
		Location: Chamber 1									
		Mode: 5G NR_QPSK NR n41 Harmonics, 100MHz Bandwidth									
		Test Voltage: AC 120 V, 60 Hz									
		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
		Low Ch, 2546.01MHz									
		5092.02	-9.1	V	3.0	44.8	1.0	-52.9	-25.0	-27.9	
		7638.03	0.7	V	3.0	44.9	1.0	-43.2	-25.0	-18.2	
		10184.04	-9.2	V	3.0	43.6	1.0	-51.8	-25.0	-26.8	
		5092.02	-10.8	H	3.0	44.8	1.0	-54.6	-25.0	-29.6	
		7638.03	-0.9	H	3.0	44.9	1.0	-44.8	-25.0	-19.8	
		10184.04	-9.6	H	3.0	43.6	1.0	-52.2	-25.0	-27.2	
		Mid Ch, 2592.99MHz									
		5185.98	-10.9	V	3.0	44.8	1.0	-54.7	-25.0	-29.7	
		7778.97	-0.3	V	3.0	44.8	1.0	-44.2	-25.0	-19.2	
		10371.96	-9.2	V	3.0	43.5	1.0	-51.8	-25.0	-26.8	
		5185.98	-10.8	H	3.0	44.8	1.0	-54.6	-25.0	-29.6	
		7778.97	-0.2	H	3.0	44.8	1.0	-44.0	-25.0	-19.0	
		10371.96	-8.8	H	3.0	43.5	1.0	-51.3	-25.0	-26.3	
		High Ch, 2640MHz									
		5280.00	-9.4	V	3.0	44.9	1.0	-53.3	-25.0	-28.3	
7920.00	1.6	V	3.0	44.8	1.0	-42.2	-25.0	-17.2			
10560.00	-8.9	V	3.0	43.5	1.0	-51.4	-25.0	-26.4			
5280.00	-11.0	H	3.0	44.9	1.0	-54.9	-25.0	-29.9			
7920.00	-0.4	H	3.0	44.8	1.0	-44.2	-25.0	-19.2			
10560.00	-9.0	H	3.0	43.5	1.0	-51.5	-25.0	-26.5			
50 MHz	ANT B SRS1	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung									
		Project #: 4791196575									
		Date: 2024-04-15									
		Test Engineer: 26087									
		Configuration: EUT / AC Adapter, Z-Position, FF									
		Location: Chamber 1									
		Mode: 5G NR n41(SRS) Harmonics, 50MHz Bandwidth									
		Test Voltage: AC 120 V, 60 Hz									
		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
		Low Ch, 2521.01MHz									
		5042.02	-17.5	V	3.0	44.8	1.0	-61.3	-25.0	-36.3	
		7563.03	-15.1	V	3.0	44.9	1.0	-59.0	-25.0	-34.0	
		10084.04	-12.4	V	3.0	43.6	1.0	-55.0	-25.0	-30.0	
		12605.05	-11.1	V	3.0	43.5	1.0	-53.6	-25.0	-28.6	
		15126.06	-8.9	V	3.0	44.8	1.0	-52.7	-25.0	-27.7	
		5042.02	0.0	H	3.0	44.8	1.0	-43.8	-25.0	-18.8	
		7563.03	-15.2	H	3.0	44.9	1.0	-59.1	-25.0	-34.1	
		10084.04	-9.7	H	3.0	43.6	1.0	-52.3	-25.0	-27.3	
		12605.05	-10.8	H	3.0	43.5	1.0	-53.4	-25.0	-28.4	
		15126.06	-8.7	H	3.0	44.8	1.0	-52.5	-25.0	-27.5	
		Mid Ch, 2592.99MHz									
		5185.98	-17.5	V	3.0	44.8	1.0	-61.3	-25.0	-36.3	
		7778.97	-14.6	V	3.0	44.8	1.0	-58.5	-25.0	-33.5	
		10371.96	-12.7	V	3.0	43.5	1.0	-55.2	-25.0	-30.2	
12964.95	-11.4	V	3.0	43.7	1.0	-54.1	-25.0	-29.1			
15557.94	-8.6	V	3.0	44.7	1.0	-52.3	-25.0	-27.3			
5185.98	-17.4	H	3.0	44.8	1.0	-61.2	-25.0	-36.2			
7778.97	-15.0	H	3.0	44.8	1.0	-58.8	-25.0	-33.8			
10371.96	-12.1	H	3.0	43.5	1.0	-54.6	-25.0	-29.6			
12964.95	-11.0	H	3.0	43.7	1.0	-53.7	-25.0	-28.7			
15557.94	-8.5	H	3.0	44.7	1.0	-52.2	-25.0	-27.2			
High Ch, 2665MHz											
5330.00	-16.8	V	3.0	44.9	1.0	-60.6	-25.0	-35.6			
7995.00	-14.9	V	3.0	44.8	1.0	-58.7	-25.0	-33.7			
10660.00	-12.8	V	3.0	43.5	1.0	-55.3	-25.0	-30.3			
13325.00	-10.5	V	3.0	43.9	1.0	-53.4	-25.0	-28.4			
15990.00	-7.9	V	3.0	44.5	1.0	-51.5	-25.0	-26.5			
5330.00	-16.9	H	3.0	44.9	1.0	-60.8	-25.0	-35.8			
7995.00	-14.9	H	3.0	44.8	1.0	-58.7	-25.0	-33.7			
10660.00	-12.3	H	3.0	43.5	1.0	-54.8	-25.0	-29.8			
13325.00	-10.4	H	3.0	43.9	1.0	-53.3	-25.0	-28.3			
15990.00	-7.8	H	3.0	44.5	1.0	-51.3	-25.0	-26.3			

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		<b>Company:</b>	Samsung								
		<b>Project #:</b>	4791196575								
		<b>Date:</b>	2024-04-03								
		<b>Test Engineer:</b>	28183								
		<b>Configuration:</b>	EUT / AC Adapter, Y-Position, Open								
		<b>Location:</b>	Chamber 2								
		<b>Mode:</b>	5G NR n41(SRS) Harmonics, 50MHz Bandwidth								
		<b>Test Votage:</b>	AC 120 V, 60 Hz								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
50 MHz											
ANT G											
SRS2											
Low Ch, 2521.01MHz											
5042.02	-21.2	V	3.0	42.9	1.0	-63.1	-25.0	-38.1			
7563.03	-18.5	V	3.0	42.5	1.0	-60.0	-25.0	-35.0			
10084.04	-16.3	V	3.0	41.0	1.0	-56.4	-25.0	-31.4			
5042.02	-21.2	H	3.0	42.9	1.0	-63.2	-25.0	-38.2			
7563.03	-19.1	H	3.0	42.5	1.0	-60.6	-25.0	-35.6			
10084.04	-16.6	H	3.0	41.0	1.0	-56.6	-25.0	-31.6			
Mid Ch, 2592.99MHz											
5185.98	-21.2	V	3.0	43.0	1.0	-63.2	-25.0	-38.2			
7778.97	-18.3	V	3.0	42.4	1.0	-59.8	-25.0	-34.8			
10371.96	-15.9	V	3.0	41.2	1.0	-56.0	-25.0	-31.0			
5185.98	-21.3	H	3.0	43.0	1.0	-63.2	-25.0	-38.2			
7778.97	-19.1	H	3.0	42.4	1.0	-60.5	-25.0	-35.5			
10371.96	-16.1	H	3.0	41.2	1.0	-56.3	-25.0	-31.3			
High Ch, 2665MHz											
5330.00	-20.3	V	3.0	43.0	1.0	-62.3	-25.0	-37.3			
7995.00	-17.7	V	3.0	42.3	1.0	-59.0	-25.0	-34.0			
10660.00	-15.3	V	3.0	41.3	1.0	-55.6	-25.0	-30.6			
5330.00	-20.6	H	3.0	43.0	1.0	-62.5	-25.0	-37.5			
7995.00	-18.5	H	3.0	42.3	1.0	-59.8	-25.0	-34.8			
10660.00	-15.5	H	3.0	41.3	1.0	-55.8	-25.0	-30.8			
10 MHz											
ANT C											
SRS3											
Low Ch, 2501.01MHz											
5002.02	-21.1	V	3.0	42.9	1.0	-63.0	-25.0	-38.0			
7503.03	-18.6	V	3.0	42.6	1.0	-60.2	-25.0	-35.2			
10004.04	-14.1	V	3.0	41.0	1.0	-54.1	-25.0	-29.1			
5002.02	-21.6	H	3.0	42.9	1.0	-63.5	-25.0	-38.5			
7503.03	-19.3	H	3.0	42.6	1.0	-60.8	-25.0	-35.8			
10004.04	-14.9	H	3.0	41.0	1.0	-54.9	-25.0	-29.9			
Mid Ch, 2592.99MHz											
5185.98	-21.3	V	3.0	43.0	1.0	-63.2	-25.0	-38.2			
7778.97	-18.5	V	3.0	42.4	1.0	-59.9	-25.0	-34.9			
10371.96	-15.0	V	3.0	41.2	1.0	-55.1	-25.0	-30.1			
5185.98	-21.4	H	3.0	43.0	1.0	-63.4	-25.0	-38.4			
7778.97	-19.2	H	3.0	42.4	1.0	-60.6	-25.0	-35.6			
10371.96	-16.1	H	3.0	41.2	1.0	-56.2	-25.0	-31.2			
High Ch, 2685MHz											
5370.00	-20.3	V	3.0	43.0	1.0	-62.3	-25.0	-37.3			
8055.00	-18.1	V	3.0	42.3	1.0	-59.4	-25.0	-34.4			
10740.00	-15.1	V	3.0	41.3	1.0	-55.4	-25.0	-30.4			
5370.00	-20.8	H	3.0	43.0	1.0	-62.8	-25.0	-37.8			
8055.00	-18.9	H	3.0	42.3	1.0	-60.2	-25.0	-35.2			
10740.00	-15.2	H	3.0	41.3	1.0	-55.6	-25.0	-30.6			

**NR Band n66 DFT-s OFDM**

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung Project #: 4791196575 Date: 2024-03-07 Test Engineer: 28775 Configuration: EUT / AC Adapter, X-Position, HF Location: Chamber 2 Mode: 5G NR_QPSK NR n66 Harmonics, 35MHz Bandwidth Test Voltage: AC 120 V, 60 Hz									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
35 MHz											
QPSK											
ANT B											
Low Ch, 1727.5MHz											
3455.00	-8.5	V	3.0	42.2	1.0	-49.8	-13.0	-36.8			
5182.50	-5.5	V	3.0	43.0	1.0	-47.5	-13.0	-34.5			
6910.00	-5.5	V	3.0	42.9	1.0	-47.4	-13.0	-34.4			
3455.00	-8.1	H	3.0	42.2	1.0	-49.3	-13.0	-36.3			
5182.50	-3.9	H	3.0	43.0	1.0	-45.8	-13.0	-32.8			
6910.00	-5.9	H	3.0	42.9	1.0	-47.8	-13.0	-34.8			
Mid Ch, 1745MHz											
3490.00	-8.3	V	3.0	42.2	1.0	-49.5	-13.0	-36.5			
5235.00	-5.6	V	3.0	43.0	1.0	-47.6	-13.0	-34.6			
6980.00	-5.5	V	3.0	42.8	1.0	-47.4	-13.0	-34.4			
3490.00	-7.5	H	3.0	42.2	1.0	-48.7	-13.0	-35.7			
5235.00	-4.6	H	3.0	43.0	1.0	-46.5	-13.0	-33.5			
6980.00	-5.9	H	3.0	42.8	1.0	-47.8	-13.0	-34.8			
High Ch, 1762.5MHz											
3525.00	-7.6	V	3.0	42.2	1.0	-48.8	-13.0	-35.8			
5287.50	-7.2	V	3.0	43.0	1.0	-49.1	-13.0	-36.1			
7050.00	-5.3	V	3.0	42.8	1.0	-47.1	-13.0	-34.1			
3525.00	-7.4	H	3.0	42.2	1.0	-48.7	-13.0	-35.7			
5287.50	-6.4	H	3.0	43.0	1.0	-48.3	-13.0	-35.3			
7050.00	-5.7	H	3.0	42.8	1.0	-47.5	-13.0	-34.5			
UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement											
Company: Samsung Project #: 4791196575 Date: 2024-03-12 Test Engineer: 26087 Configuration: EUT / AC Adapter, Z-Position, FF Location: Chamber 1 Mode: 5G NR_QPSK NR n66 Harmonics, 25MHz Bandwidth Test Voltage: AC 120 V, 60 Hz											
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
25 MHz											
QPSK											
ANT E											
Low Ch, 1722.5MHz											
3445.00	-8.5	V	3.0	44.0	1.0	-51.5	-13.0	-38.5			
5167.50	-6.7	V	3.0	44.8	1.0	-50.5	-13.0	-37.5			
6890.00	-4.1	V	3.0	45.1	1.0	-48.3	-13.0	-35.3			
3445.00	-8.3	H	3.0	44.0	1.0	-51.3	-13.0	-38.3			
5167.50	-3.1	H	3.0	44.8	1.0	-46.9	-13.0	-33.9			
6890.00	-3.8	H	3.0	45.1	1.0	-47.9	-13.0	-34.9			
Mid Ch, 1745MHz											
3490.00	-8.3	V	3.0	44.0	1.0	-51.3	-13.0	-38.3			
5235.00	-6.2	V	3.0	44.8	1.0	-50.0	-13.0	-37.0			
6980.00	-4.1	V	3.0	45.1	1.0	-48.2	-13.0	-35.2			
3490.00	-7.9	H	3.0	44.0	1.0	-50.9	-13.0	-37.9			
5235.00	-1.8	H	3.0	44.8	1.0	-45.6	-13.0	-32.6			
6980.00	-4.0	H	3.0	45.1	1.0	-48.2	-13.0	-35.2			
High Ch, 1767.5MHz											
3535.00	-8.0	V	3.0	44.0	1.0	-51.0	-13.0	-38.0			
5302.50	-6.2	V	3.0	44.9	1.0	-50.0	-13.0	-37.0			
7070.00	-3.7	V	3.0	45.1	1.0	-47.8	-13.0	-34.8			
3535.00	-7.8	H	3.0	44.0	1.0	-50.8	-13.0	-37.8			
5302.50	-4.3	H	3.0	44.9	1.0	-48.2	-13.0	-35.2			
7070.00	-3.8	H	3.0	45.1	1.0	-47.9	-13.0	-34.9			

**NR Band n70 DFT-s OFDM**

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		Company: Sasmsung Project #: 4791196575 Date: 2024-03-08 Test Engineer: 28775 EngineerTextBox Configuration: EUT / AC Adapter, X-Position, FF Location: Chamber 2 Mode: 5G NR_QPSK NR n70 Harmonics, 10MHz Bandwidth Test Votage: AC 120 V, 60 Hz									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
10MHz											
QPSK											
ANT B											
Low Ch, 1700MHz											
3400.00	-8.3	V	3.0	42.2	1.0	-49.5	-13.0	-36.5			
5100.00	-8.9	V	3.0	42.9	1.0	-50.9	-13.0	-37.9			
6800.00	-5.8	V	3.0	42.9	1.0	-47.7	-13.0	-34.7			
3400.00	-8.1	H	3.0	42.2	1.0	-49.3	-13.0	-36.3			
5100.00	-8.9	H	3.0	42.9	1.0	-50.9	-13.0	-37.9			
6800.00	-6.2	H	3.0	42.9	1.0	-48.1	-13.0	-35.1			
Mid Ch, 1702.5MHz											
3405.00	-8.4	V	3.0	42.2	1.0	-49.6	-13.0	-36.6			
5107.50	-8.0	V	3.0	42.9	1.0	-49.9	-13.0	-36.9			
6810.00	-5.7	V	3.0	42.9	1.0	-47.6	-13.0	-34.6			
3405.00	-8.1	H	3.0	42.2	1.0	-49.3	-13.0	-36.3			
5107.50	-7.2	H	3.0	42.9	1.0	-49.1	-13.0	-36.1			
6810.00	-6.1	H	3.0	42.9	1.0	-48.0	-13.0	-35.0			
High Ch, 1705.MHz											
3410.00	-8.4	V	3.0	42.2	1.0	-49.6	-13.0	-36.6			
5115.00	-8.9	V	3.0	42.9	1.0	-50.8	-13.0	-37.8			
6820.00	-5.8	V	3.0	42.9	1.0	-47.6	-13.0	-34.6			
3410.00	-8.1	H	3.0	42.2	1.0	-49.3	-13.0	-36.3			
5115.00	-9.9	H	3.0	42.9	1.0	-51.8	-13.0	-38.8			
6820.00	-6.1	H	3.0	42.9	1.0	-48.0	-13.0	-35.0			
UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement											
Company: Samsung Project #: 4791196575 Date: 2024-03-18 Test Engineer: 24542 Configuration: EUT / AC Adapter, X-Position, FF Location: Chamber 1 Mode: 5G NR_QPSK NR n70 Harmonics, 10MHz Bandwidth Test Votage: AC 120 V, 60 Hz											
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
10 MHz											
QPSK											
ANT E											
Low Ch, 1700MHz											
3400.00	-8.6	V	3.0	44.0	1.0	-51.5	-13.0	-38.5			
5100.00	-6.4	V	3.0	44.8	1.0	-50.2	-13.0	-37.2			
6800.00	-4.1	V	3.0	45.1	1.0	-48.3	-13.0	-35.3			
3400.00	-8.4	H	3.0	44.0	1.0	-51.3	-13.0	-38.3			
5100.00	-6.4	H	3.0	44.8	1.0	-50.2	-13.0	-37.2			
6800.00	-3.9	H	3.0	45.1	1.0	-48.1	-13.0	-35.1			
Mid Ch, 1702.5MHz											
3405.00	-8.5	V	3.0	44.0	1.0	-51.5	-13.0	-38.5			
5107.50	-6.5	V	3.0	44.8	1.0	-50.3	-13.0	-37.3			
6810.00	-4.0	V	3.0	45.1	1.0	-48.1	-13.0	-35.1			
3405.00	-8.2	H	3.0	44.0	1.0	-51.2	-13.0	-38.2			
5107.50	-6.6	H	3.0	44.8	1.0	-50.4	-13.0	-37.4			
6810.00	-3.7	H	3.0	45.1	1.0	-47.8	-13.0	-34.8			
High Ch, 1705MHz											
3410.00	-8.3	V	3.0	44.0	1.0	-51.2	-13.0	-38.2			
5115.00	-2.9	V	3.0	44.8	1.0	-46.7	-13.0	-33.7			
6820.00	-4.2	V	3.0	45.1	1.0	-48.4	-13.0	-35.4			
3410.00	-7.8	H	3.0	44.0	1.0	-50.8	-13.0	-37.8			
5115.00	-5.9	H	3.0	44.8	1.0	-49.7	-13.0	-36.7			
6820.00	-3.8	H	3.0	45.1	1.0	-47.9	-13.0	-34.9			

**NR Band n71 DFT-s OFDM**

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement								
		Company: Samsung Project #: 4791196575 Date: 2024-02-27 Test Engineer: 28775 Configuration: EUT / AC Adapter, Z-Position, Open Location: Chamber 1 Mode: 5G NR_QPSK NR n71 Harmonics, 10MHz Bandwidth Test Voltage: AC 120 V, 60 Hz								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
10 MHz QPSK ANT A+B										
Low Ch, 668MHz										
1336.00	-16.7	V	3.0	43.2	1.0	-58.9	-13.0	-45.9		
2004.00	-13.1	V	3.0	43.4	1.0	-55.5	-13.0	-42.5		
2672.00	-11.4	V	3.0	43.6	1.0	-54.0	-13.0	-41.0		
1336.00	-18.1	H	3.0	43.2	1.0	-60.4	-13.0	-47.4		
2004.00	-14.0	H	3.0	43.4	1.0	-56.4	-13.0	-43.4		
2672.00	-11.5	H	3.0	43.6	1.0	-54.1	-13.0	-41.1		
Mid Ch, 680.5MHz										
1361.00	-16.4	V	3.0	43.3	1.0	-58.6	-13.0	-45.6		
2041.50	-8.3	V	3.0	43.4	1.0	-50.8	-13.0	-37.8		
2722.00	-11.0	V	3.0	43.7	1.0	-53.7	-13.0	-40.7		
1361.00	-17.8	H	3.0	43.3	1.0	-60.1	-13.0	-47.1		
2041.50	-6.4	H	3.0	43.4	1.0	-48.8	-13.0	-35.8		
2722.00	-11.1	H	3.0	43.7	1.0	-53.8	-13.0	-40.8		
High Ch, 693MHz										
1386.00	-15.4	V	3.0	43.3	1.0	-57.6	-13.0	-44.6		
2079.00	-12.4	V	3.0	43.4	1.0	-54.8	-13.0	-41.8		
2772.00	-10.8	V	3.0	43.7	1.0	-53.5	-13.0	-40.5		
1386.00	-16.4	H	3.0	43.3	1.0	-58.6	-13.0	-45.6		
2079.00	-12.8	H	3.0	43.4	1.0	-55.3	-13.0	-42.3		
2772.00	-10.8	H	3.0	43.7	1.0	-53.5	-13.0	-40.5		
		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement								
		Company: Samsung Project #: 4791196575 Date: 2024-03-11 Test Engineer: 26087 Configuration: EUT / AC Adapter, Y-Position, FF Location: Chamber 1 Mode: 5G NR_QPSK NR n71 Harmonics, 20MHz Bandwidth Test Voltage: AC 120 V, 60 Hz								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
20 MHz QPSK ANT A										
Low Ch, 673MHz										
1346.00	-16.5	V	3.0	43.3	1.0	-58.8	-13.0	-45.8		
2019.00	-13.4	V	3.0	43.4	1.0	-55.8	-13.0	-42.8		
2692.00	-11.3	V	3.0	43.7	1.0	-53.9	-13.0	-40.9		
1346.00	-17.8	H	3.0	43.3	1.0	-60.1	-13.0	-47.1		
2019.00	-14.4	H	3.0	43.4	1.0	-56.8	-13.0	-43.8		
2692.00	-11.4	H	3.0	43.7	1.0	-54.0	-13.0	-41.0		
Mid Ch, 680.5MHz										
1361.00	-16.7	V	3.0	43.3	1.0	-59.0	-13.0	-46.0		
2041.50	-13.1	V	3.0	43.4	1.0	-55.5	-13.0	-42.5		
2722.00	-11.7	V	3.0	43.7	1.0	-54.4	-13.0	-41.4		
1361.00	-18.0	H	3.0	43.3	1.0	-60.2	-13.0	-47.2		
2041.50	-14.0	H	3.0	43.4	1.0	-56.4	-13.0	-43.4		
2722.00	-11.8	H	3.0	43.7	1.0	-54.5	-13.0	-41.5		
High Ch, 688MHz										
1376.00	-16.6	V	3.0	43.3	1.0	-58.9	-13.0	-45.9		
2064.00	-13.0	V	3.0	43.4	1.0	-55.4	-13.0	-42.4		
2752.00	-11.0	V	3.0	43.7	1.0	-53.7	-13.0	-40.7		
1376.00	-18.0	H	3.0	43.3	1.0	-60.3	-13.0	-47.3		
2064.00	-14.4	H	3.0	43.4	1.0	-56.8	-13.0	-43.8		
2752.00	-11.0	H	3.0	43.7	1.0	-53.7	-13.0	-40.7		

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
<b>Company:</b>		Samsung							
<b>Project #:</b>		4791196575							
<b>Date:</b>		2024-04-26							
<b>Test Engineer:</b>		28775							
<b>Configuration:</b>		EUT / AC Adapter, Z-Position, Open							
<b>Location:</b>		Chamber 2							
<b>Mode:</b>		5G NR_QPSK NR n71 Harmonics, 10MHz Bandwidth							
<b>Test Voltage:</b>		AC 120 V, 60 Hz							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 668MHz</b>									
1336.00	-16.8	V	3.0	40.9	1.0	-56.7	-13.0	-43.7	
2004.00	-8.5	V	3.0	40.8	1.0	-48.3	-13.0	-35.3	
2672.00	-11.1	V	3.0	41.7	1.0	-51.8	-13.0	-38.8	
3340.00	-8.7	V	3.0	42.2	1.0	-49.9	-13.0	-36.9	
4008.00	-10.2	V	3.0	42.2	1.0	-51.4	-13.0	-38.4	
1336.00	-17.8	H	3.0	40.9	1.0	-57.7	-13.0	-44.7	
2004.00	-12.2	H	3.0	40.8	1.0	-52.0	-13.0	-39.0	
2672.00	-10.7	H	3.0	41.7	1.0	-51.4	-13.0	-38.4	
3340.00	-8.6	H	3.0	42.2	1.0	-49.8	-13.0	-36.8	
4008.00	-10.8	H	3.0	42.2	1.0	-52.0	-13.0	-39.0	
<b>Mid Ch, 680.5MHz</b>									
1361.00	-16.6	V	3.0	40.9	1.0	-56.5	-13.0	-43.5	
2041.50	-6.7	V	3.0	40.8	1.0	-46.5	-13.0	-33.5	
2722.00	-10.8	V	3.0	41.8	1.0	-51.6	-13.0	-38.6	
3402.50	-8.7	V	3.0	42.2	1.0	-49.9	-13.0	-36.9	
4083.00	-10.2	V	3.0	42.3	1.0	-51.5	-13.0	-38.5	
1361.00	-17.5	H	3.0	40.9	1.0	-57.4	-13.0	-44.4	
2041.50	-10.5	H	3.0	40.8	1.0	-50.3	-13.0	-37.3	
2722.00	-10.2	H	3.0	41.8	1.0	-51.0	-13.0	-38.0	
3402.50	-8.4	H	3.0	42.2	1.0	-49.6	-13.0	-36.6	
4083.00	-10.8	H	3.0	42.3	1.0	-52.1	-13.0	-39.1	
<b>High Ch, 693MHz</b>									
1386.00	-15.8	V	3.0	40.9	1.0	-55.7	-13.0	-42.7	
2079.00	-9.3	V	3.0	40.9	1.0	-49.2	-13.0	-36.2	
2772.00	-10.7	V	3.0	41.9	1.0	-51.6	-13.0	-38.6	
3465.00	-8.4	V	3.0	42.2	1.0	-49.6	-13.0	-36.6	
4158.00	-10.0	V	3.0	42.3	1.0	-51.3	-13.0	-38.3	
1386.00	-17.1	H	3.0	40.9	1.0	-56.9	-13.0	-43.9	
2079.00	-11.8	H	3.0	40.9	1.0	-51.6	-13.0	-38.6	
2772.00	-10.2	H	3.0	41.9	1.0	-51.1	-13.0	-38.1	
3465.00	-8.2	H	3.0	42.2	1.0	-49.4	-13.0	-36.4	
4158.00	-10.4	H	3.0	42.3	1.0	-51.8	-13.0	-38.8	

10 MHz  
 QPSK  
 ANT D



**NR Band n77 DFT-s OFDM (PC2, 3450 - 3550 MHz)**

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		<b>Company:</b>	Samsung								
		<b>Project #:</b>	4791196575								
		<b>Date:</b>	2024-02-28								
		<b>Test Engineer:</b>	24542								
		<b>Configuration:</b>	EUT / AC Adapter, X-Position, Open								
		<b>Location:</b>	Chamber 1								
		<b>Mode:</b>	5G NR_QPSK NR n77 LO Harmonics, 10MHz Bandwidth								
		<b>Test Voltage:</b>	AC 120 V, 60 Hz								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
10 MHz											
QPSK											
ANT E											
Low Ch, 3455.01MHz											
6910.02	-0.7	V	3.0	45.1	1.0	-44.9	-13.0	-31.9			
10365.03	3.1	V	3.0	43.5	1.0	-39.4	-13.0	-26.4			
13820.04	7.2	V	3.0	44.2	1.0	-36.0	-13.0	-23.0			
6910.02	-0.7	H	3.0	45.1	1.0	-44.9	-13.0	-31.9			
10365.03	3.5	H	3.0	43.5	1.0	-39.1	-13.0	-26.1			
13820.04	6.8	H	3.0	44.2	1.0	-36.3	-13.0	-23.3			
Mid Ch, 3499.98MHz											
6999.96	-1.4	V	3.0	45.1	1.0	-45.5	-13.0	-32.5			
10499.94	3.6	V	3.0	43.5	1.0	-38.9	-13.0	-25.9			
13999.92	7.1	V	3.0	44.3	1.0	-36.2	-13.0	-23.2			
6999.96	-0.7	H	3.0	45.1	1.0	-44.8	-13.0	-31.8			
10499.94	3.6	H	3.0	43.5	1.0	-38.9	-13.0	-25.9			
13999.92	7.0	H	3.0	44.3	1.0	-36.3	-13.0	-23.3			
High Ch, 3544.98MHz											
7089.96	-0.6	V	3.0	45.1	1.0	-44.7	-13.0	-31.7			
10634.94	3.7	V	3.0	43.5	1.0	-38.8	-13.0	-25.8			
14179.92	7.5	V	3.0	44.4	1.0	-35.9	-13.0	-22.9			
7089.96	-0.7	H	3.0	45.1	1.0	-44.8	-13.0	-31.8			
10634.94	3.8	H	3.0	43.5	1.0	-38.7	-13.0	-25.7			
14179.92	7.1	H	3.0	44.4	1.0	-36.3	-13.0	-23.3			
50 MHz											
ANT C											
SRS1											
UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement											
		<b>Company:</b>	Samsung								
		<b>Project #:</b>	4791996575								
		<b>Date:</b>	2024-04-03								
		<b>Test Engineer:</b>	26087								
		<b>Configuration:</b>	EUT / Adapter, X-Position, Open								
		<b>Location:</b>	Chamber 1								
		<b>Mode:</b>	5G NR n77 LO(SRS) Harmonics, 50MHz Bandwidth								
		<b>Test Voltage:</b>	AC 120 V, 60 Hz								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch, 3475MHz											
6950.00	-3.7	V	3.0	45.1	1.0	-47.8	-13.0	-34.8			
10425.00	1.8	V	3.0	43.5	1.0	-40.7	-13.0	-27.7			
13900.00	3.8	V	3.0	44.2	1.0	-39.5	-13.0	-26.5			
6950.00	-3.6	H	3.0	45.1	1.0	-47.8	-13.0	-34.8			
10425.00	1.3	H	3.0	43.5	1.0	-41.3	-13.0	-28.3			
13900.00	3.9	H	3.0	44.2	1.0	-39.3	-13.0	-26.3			
Mid Ch, 3499.98MHz											
6999.96	-3.8	V	3.0	45.1	1.0	-47.9	-13.0	-34.9			
10499.94	0.1	V	3.0	43.5	1.0	-42.4	-13.0	-29.4			
13999.92	3.9	V	3.0	44.3	1.0	-39.4	-13.0	-26.4			
6999.96	-3.8	H	3.0	45.1	1.0	-47.9	-13.0	-34.9			
10499.94	0.4	H	3.0	43.5	1.0	-42.1	-13.0	-29.1			
13999.92	4.0	H	3.0	44.3	1.0	-39.3	-13.0	-26.3			
High Ch, 3524MHz											
7048.00	-4.0	V	3.0	45.1	1.0	-48.1	-13.0	-35.1			
10572.00	0.3	V	3.0	43.5	1.0	-42.2	-13.0	-29.2			
14096.00	3.8	V	3.0	44.3	1.0	-39.5	-13.0	-26.5			
7048.00	-3.8	H	3.0	45.1	1.0	-47.9	-13.0	-34.9			
10572.00	0.5	H	3.0	43.5	1.0	-42.0	-13.0	-29.0			
14096.00	4.0	H	3.0	44.3	1.0	-39.3	-13.0	-26.3			

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung Project #: 4791196626 Date: 2024-04-04 Test Engineer: 26087 Configuration: EUT / AC Adapter, Y-Position, HF Location: Chamber 1 Mode: 5G NR n77 LO(SRS) Harmonics, 50MHz Bandwidth Test Voltage: AC 120 V, 60 Hz									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
50 MHz											
ANT F											
SRS2											
Low Ch, 3475.02MHz											
6950.04	-3.4	V	3.0	45.1	1.0	-47.5	-13.0	-34.5			
10425.06	1.0	V	3.0	43.5	1.0	-41.5	-13.0	-28.5			
13900.08	4.0	V	3.0	44.2	1.0	-39.3	-13.0	-26.3			
6950.04	-3.6	H	3.0	45.1	1.0	-47.8	-13.0	-34.8			
10425.06	0.5	H	3.0	43.5	1.0	-42.0	-13.0	-29.0			
13900.08	4.0	H	3.0	44.2	1.0	-39.3	-13.0	-26.3			
Mid Ch, 3499.98MHz											
6999.96	-3.9	V	3.0	45.1	1.0	-48.1	-13.0	-35.1			
10499.94	-0.1	V	3.0	43.5	1.0	-42.6	-13.0	-29.6			
13999.92	3.9	V	3.0	44.3	1.0	-39.4	-13.0	-26.4			
6999.96	-3.4	H	3.0	45.1	1.0	-47.6	-13.0	-34.6			
10499.94	0.2	H	3.0	43.5	1.0	-42.3	-13.0	-29.3			
13999.92	4.1	H	3.0	44.3	1.0	-39.2	-13.0	-26.2			
High Ch, 3525MHz											
7050.00	-3.8	V	3.0	45.1	1.0	-47.9	-13.0	-34.9			
10575.00	0.6	V	3.0	43.5	1.0	-41.9	-13.0	-28.9			
14100.00	3.7	V	3.0	44.3	1.0	-39.6	-13.0	-26.6			
7050.00	-4.0	H	3.0	45.1	1.0	-48.1	-13.0	-35.1			
10575.00	0.5	H	3.0	43.5	1.0	-42.0	-13.0	-29.0			
14100.00	4.0	H	3.0	44.3	1.0	-39.3	-13.0	-26.3			
		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung Project #: 4791196575 Date: 2024-04-05 Test Engineer: 24542 Configuration: EUT / AC Adapter, Y-Position, HF Location: Chamber 1 Mode: 5G NR n77 LO(SRS) Harmonics, 50MHz Bandwidth Test Voltage: AC 120 V, 60 Hz									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
50 MHz											
ANT A											
SRS3											
Low Ch, 3475.02MHz											
6950.04	-3.7	V	3.0	45.1	1.0	-47.9	-13.0	-34.9			
10425.06	0.1	V	3.0	43.5	1.0	-42.5	-13.0	-29.5			
13900.08	3.6	V	3.0	44.2	1.0	-39.6	-13.0	-26.6			
6950.04	-3.6	H	3.0	45.1	1.0	-47.8	-13.0	-34.8			
10425.06	0.6	H	3.0	43.5	1.0	-41.9	-13.0	-28.9			
13900.08	4.0	H	3.0	44.2	1.0	-39.2	-13.0	-26.2			
Mid Ch, 3499.98MHz											
6999.96	-3.8	V	3.0	45.1	1.0	-48.0	-13.0	-35.0			
10499.94	0.0	V	3.0	43.5	1.0	-42.6	-13.0	-29.6			
13999.92	3.9	V	3.0	44.3	1.0	-39.4	-13.0	-26.4			
6999.96	-3.7	H	3.0	45.1	1.0	-47.9	-13.0	-34.9			
10499.94	0.1	H	3.0	43.5	1.0	-42.4	-13.0	-29.4			
13999.92	4.1	H	3.0	44.3	1.0	-39.2	-13.0	-26.2			
High Ch, 3525MHz											
7050.00	-4.1	V	3.0	45.1	1.0	-48.2	-13.0	-35.2			
10575.00	0.3	V	3.0	43.5	1.0	-42.2	-13.0	-29.2			
14100.00	3.8	V	3.0	44.3	1.0	-39.5	-13.0	-26.5			
7050.00	-4.0	H	3.0	45.1	1.0	-48.2	-13.0	-35.2			
10575.00	0.6	H	3.0	43.5	1.0	-41.9	-13.0	-28.9			
14100.00	4.2	H	3.0	44.3	1.0	-39.1	-13.0	-26.1			

**NR Band n77 DFT-s OFDM (PC2, 3700-3980 MHz)**

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung Project #: 47911976575 Date: 2024-02-28 Test Engineer: 28775 Configuration: EUT / AC Adapter, Z-Position, Open Location: Chamber 1 Mode: 5G NR_QPSK NR n77 UP Harmonics, 25MHz Bandwidth Test Voltage: AC 120 V, 60 Hz									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
25 MHz											
QPSK											
ANT E											
Low Ch, 3712.5MHz											
7425.00	-0.7	V	3.0	45.0	1.0	-44.7	-13.0	-31.7			
11137.50	3.9	V	3.0	43.4	1.0	-38.5	-13.0	-25.5			
14850.00	7.6	V	3.0	44.8	1.0	-36.1	-13.0	-23.1			
7425.00	0.3	H	3.0	45.0	1.0	-43.7	-13.0	-30.7			
11137.50	3.9	H	3.0	43.4	1.0	-38.5	-13.0	-25.5			
14850.00	7.9	H	3.0	44.8	1.0	-35.9	-13.0	-22.9			
Mid Ch, 3840MHz											
7680.00	-0.3	V	3.0	44.9	1.0	-44.2	-13.0	-31.2			
11520.00	4.3	V	3.0	43.3	1.0	-38.0	-13.0	-25.0			
15360.00	8.0	V	3.0	44.7	1.0	-35.7	-13.0	-22.7			
7680.00	0.4	H	3.0	44.9	1.0	-43.5	-13.0	-30.5			
11520.00	4.4	H	3.0	43.3	1.0	-37.9	-13.0	-24.9			
15360.00	8.3	H	3.0	44.7	1.0	-35.4	-13.0	-22.4			
High Ch, 3967.5MHz											
7935.00	-0.2	V	3.0	44.8	1.0	-44.0	-13.0	-31.0			
11902.50	4.7	V	3.0	43.2	1.0	-37.5	-13.0	-24.5			
15870.00	8.6	V	3.0	44.6	1.0	-35.0	-13.0	-22.0			
7935.00	0.2	H	3.0	44.8	1.0	-43.6	-13.0	-30.6			
11902.50	5.0	H	3.0	43.2	1.0	-37.2	-13.0	-24.2			
15870.00	8.8	H	3.0	44.6	1.0	-34.7	-13.0	-21.7			
		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung Project #: 4791196575 Date: 2024-04-05 Test Engineer: 28183 Configuration: EUT / AC Adapter, Y-Position, Open Location: Chamber 2 Mode: 5G NR n77 UP(SRS) Harmonics, 30MHz Bandwidth Test Voltage: AC 120 V, 60 Hz									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
30 MHz											
ANT C											
SRS1											
Low Ch, 3715MHz											
7430.00	-5.1	V	3.0	42.6	1.0	-46.7	-13.0	-33.7			
11145.00	0.0	V	3.0	41.5	1.0	-40.5	-13.0	-27.5			
14860.00	5.2	V	3.0	43.7	1.0	-37.6	-13.0	-24.6			
7430.00	-5.6	H	3.0	42.6	1.0	-47.2	-13.0	-34.2			
11145.00	-0.2	H	3.0	41.5	1.0	-40.6	-13.0	-27.6			
14860.00	4.8	H	3.0	43.7	1.0	-37.9	-13.0	-24.9			
Mid Ch, 3840MHz											
7680.00	-5.0	V	3.0	42.5	1.0	-46.5	-13.0	-33.5			
11520.00	0.8	V	3.0	41.7	1.0	-39.8	-13.0	-26.8			
15360.00	5.5	V	3.0	43.7	1.0	-37.2	-13.0	-24.2			
7680.00	-5.6	H	3.0	42.5	1.0	-47.1	-13.0	-34.1			
11520.00	0.6	H	3.0	41.7	1.0	-40.0	-13.0	-27.0			
15360.00	5.1	H	3.0	43.7	1.0	-37.6	-13.0	-24.6			
High Ch, 3964.98MHz											
7929.96	-4.6	V	3.0	42.4	1.0	-46.0	-13.0	-33.0			
11894.94	1.0	V	3.0	41.8	1.0	-39.8	-13.0	-26.8			
15859.92	5.8	V	3.0	43.6	1.0	-36.8	-13.0	-23.8			
7929.96	-5.4	H	3.0	42.4	1.0	-46.8	-13.0	-33.8			
11894.94	0.9	H	3.0	41.8	1.0	-39.9	-13.0	-26.9			
15859.92	5.3	H	3.0	43.6	1.0	-37.2	-13.0	-24.2			

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company: Samsung Project #: 4791196575 Date: 2024-04-08 Test Engineer: 28775 Configuration: EUT / AC Adapter, X-Position, Open Location: Chamber 2 Mode: 5G NR n77 UP(SRS) Harmonics, 50MHz Bandwidth Test Voltage: AC 120 V, 60 Hz										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
50 MHz										
ANT F										
SRS2										
Low Ch, 3725.01MHz										
7450.02	-5.1	V	3.0	42.6	1.0	-46.7	-13.0	-33.7		
11175.03	0.1	V	3.0	41.5	1.0	-40.4	-13.0	-27.4		
14900.04	5.2	V	3.0	43.7	1.0	-37.6	-13.0	-24.6		
7450.02	-5.7	H	3.0	42.6	1.0	-47.3	-13.0	-34.3		
11175.03	0.0	H	3.0	41.5	1.0	-40.6	-13.0	-27.6		
14900.04	4.8	H	3.0	43.7	1.0	-38.0	-13.0	-25.0		
Mid Ch, 3840MHz										
7680.00	-4.9	V	3.0	42.5	1.0	-46.4	-13.0	-33.4		
11520.00	0.6	V	3.0	41.7	1.0	-40.1	-13.0	-27.1		
15360.00	5.7	V	3.0	43.7	1.0	-37.0	-13.0	-24.0		
7680.00	-5.6	H	3.0	42.5	1.0	-47.1	-13.0	-34.1		
11520.00	0.3	H	3.0	41.7	1.0	-40.3	-13.0	-27.3		
15360.00	5.2	H	3.0	43.7	1.0	-37.5	-13.0	-24.5		
High Ch, 3954.99MHz										
7909.98	-4.5	V	3.0	42.4	1.0	-45.9	-13.0	-32.9		
11864.97	1.2	V	3.0	41.8	1.0	-39.6	-13.0	-26.6		
15819.96	5.9	V	3.0	43.6	1.0	-36.7	-13.0	-23.7		
7909.98	-5.3	H	3.0	42.4	1.0	-46.7	-13.0	-33.7		
11864.97	1.2	H	3.0	41.8	1.0	-39.6	-13.0	-26.6		
15819.96	5.4	H	3.0	43.6	1.0	-37.2	-13.0	-24.2		
UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company: Samsung Project #: 4791196575 Date: 2024-04-08 Test Engineer: 28775 Configuration: EUT / AC Adapter, X-Position, HF Location: Chamber 2 Mode: 5G NR n77 UP(SRS) Harmonics, 25MHz Bandwidth Test Voltage: AC 120 V, 60 Hz										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
25 MHz										
ANT A										
SRS3										
Low Ch, 3712.5MHz										
7425.00	-5.1	V	3.0	42.6	1.0	-46.8	-13.0	-33.8		
11137.50	0.1	V	3.0	41.5	1.0	-40.4	-13.0	-27.4		
14850.00	5.1	V	3.0	43.7	1.0	-37.6	-13.0	-24.6		
7425.00	-5.7	H	3.0	42.6	1.0	-47.3	-13.0	-34.3		
11137.50	-0.1	H	3.0	41.5	1.0	-40.5	-13.0	-27.5		
14850.00	4.7	H	3.0	43.7	1.0	-38.0	-13.0	-25.0		
Mid Ch, 3840MHz										
7680.00	-4.9	V	3.0	42.5	1.0	-46.4	-13.0	-33.4		
11520.00	1.0	V	3.0	41.7	1.0	-39.6	-13.0	-26.6		
15360.00	5.5	V	3.0	43.7	1.0	-37.3	-13.0	-24.3		
7680.00	-5.6	H	3.0	42.5	1.0	-47.1	-13.0	-34.1		
11520.00	0.9	H	3.0	41.7	1.0	-39.7	-13.0	-26.7		
15360.00	5.0	H	3.0	43.7	1.0	-37.7	-13.0	-24.7		
High Ch, 3967.5MHz										
7935.00	-4.5	V	3.0	42.4	1.0	-45.8	-13.0	-32.8		
11902.50	1.1	V	3.0	41.8	1.0	-39.7	-13.0	-26.7		
15870.00	5.9	V	3.0	43.6	1.0	-36.7	-13.0	-23.7		
7935.00	-5.3	H	3.0	42.4	1.0	-46.7	-13.0	-33.7		
11902.50	1.0	H	3.0	41.8	1.0	-39.8	-13.0	-26.8		
15870.00	5.4	H	3.0	43.6	1.0	-37.2	-13.0	-24.2		

**END OF REPORT**