



FCC RF Test Report

APPLICANT : Xiaomi Communications Co., Ltd.
EQUIPMENT : Mobile Phone
BRAND NAME : Xiaomi
MODEL NAME : 24129PN74G
FCC ID : 2AFZZPN74G
STANDARD : 47 CFR Part 27
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Aug. 30, 2024 ~ Oct. 16, 2024

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (Kunshan)

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG482619J	Rev. 01	Initial issue of report	Sep. 29, 2024



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§27.50(c)(10)	Effective Radiated Power (5G NR n12)	ERP < 3 Watt		
	§27.50(h)(2)	Equivalent Isotropic Radiated Power (5G NR n7, n41, n38)	EIRP < 2Watt		
3.5	N/A	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §27.53(g)	Conducted Band Edge Measurement (5G NR n12)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Band Edge Measurement (5G NR n7, n41, n38)	§27.53(m)(4)		-
3.8	§2.1051 §27.53(g)	Conducted Spurious Emission (5G NR n12)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (5G NR n7, n41, n38)	< 55+10log ₁₀ (P[Watts])		-
3.9	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§2.1053 §27.53(g)	Radiated Spurious Emission (5G NR n12)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 25.55 dB at 7644.000 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (5G NR n7, n41, n38)	< 55+10log ₁₀ (P[Watts])		

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



1 General Description

1.1 Applicant

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.2 Manufacturer

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	Xiaomi
Model Name	24129PN74G
FCC ID	2AFZZPN74G
IMEI Code	Conducted: 864868070035782/864868070035790 Radiation: 864868070038067/864868070038075
HW Version	1352000O3
SW Version	Xiaomi HyperOS 2.0
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	5G NR n7 : 2500 MHz ~ 2570 MHz 5G NR n12 : 699 MHz ~ 716 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz
Rx Frequency	5G NR n7 : 2620 MHz ~ 2690 MHz 5G NR n12: 729 MHz ~ 746 MHz 5G NR n38: 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz
Bandwidth	n7 SA: 5MHz / 10MHz / 15MHz / 20MHz / 25MHz / 30MHz / 35MHz / 40MHz / 50MHz n7 NSA: 5MHz / 10MHz / 15MHz / 20MHz / 25MHz / 30MHz / 35MHz / 40MHz n12 SA: 5MHz / 10MHz / 15MHz n38 SA/NSA: 10MHz / 15MHz / 20MHz / 25MHz / 30MHz / 40MHz n41 SA/NSA: 10MHz / 15MHz / 20MHz / 25MHz / 30MHz / 35MHz / 40MHz / 45MHz / 50MHz / 60MHz / 70MHz / 80MHz / 90MHz / 100MHz
SCS	15kHz, 30kHz
Antenna Gain	<Ant.0>: n12: -3.7 dBi <Ant.1>: n12: -3.6 dBi <Ant. 3>:n7/n38/n41:-0.5 dBi <Ant. 4>:n7/n38/n41:-2.8 dBi



	<Ant. 5>:n7/n38/n41:-3.0 dBi <Ant. 6>:n7/n38/n41:-0.3 dBi
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

Remark:

1. The maximum ERP/EIRP is calculated from max output power and max antenna gain, only the maximum ERP/EIRP are shown in the report, 5G NR n7/n38/n41 for Ant.4 and 5G n12 for Ant.0 and n7/n38/n41UL MIMO for Ant(4+3).
2. 5G NR n7/n38/n41 support SA and NSA mode, n12 support SA mode only. According to the maximum power between SA and NSA mode, SA covers NSA mode for n7.
3. The device supports two PAs for 5G NR n7/n38/n41(main PA for SA mode and other PA for NSA mode), both the PAs are full tested.
4. 5G NR n7/n38/n41 support UL MIMO mode for Ant(4+3) / Ant(4+6) / Ant(5+3) / Ant(5+6), only the worst test data of Ant(4+3) are shown in the report according to the maximum power.
5. The UL MIMO mode is completely uncorrelated, so the directional gain is selected the maximum gain among all antennas.
6. For UL MIMO mode, the conducted BE/Spurious are tested at single antenna port and add $10 \cdot \log(N_{\text{ANT}})$ according to KDB 662911 D01.
7. The device supports HPUE mode for 5G NR n41.
8. All the supported ENDC combinations are verified conducted power, only the ENDC combination with highest power are shown in the report.
9. The EN-DC mode combination could be referred to the product spec.

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Maximum EIRP and Emission Designator

5G NR n7 SA - Main PA		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2502.5 ~ 2567.5	0.1778	4M48G7D	0.1452	4M49W7D
10	2505.0 ~ 2565.0	0.1799	9M28G7D	0.1459	9M31W7D
15	2507.5 ~ 2562.5	0.1832	14M1G7D	0.1452	14M1W7D
20	2510.0 ~ 2560.0	0.1795	18M9G7D	0.1466	19M0W7D
25	2512.5 ~ 2557.5	0.1849	23M8G7D	0.1479	23M8W7D
30	2515.0 ~ 2555.0	0.1858	28M6G7D	0.1472	28M6W7D
35	2517.5 ~ 2552.5	0.1770	33M6G7D	0.1483	33M6W7D
40	2520.0 ~ 2550.0	0.1837	38M6G7D	0.1507	38M6W7D
50	2525.0 ~ 2545.0	0.1892	48M2G7D	0.1538	48M3W7D

5G NR n7 NSA - Other PA		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2502.5 ~ 2567.5	0.2350	4M48G7D	0.1914	4M48W7D
10	2505.0 ~ 2565.0	0.2432	9M29G7D	0.1914	9M30W7D
15	2507.5 ~ 2562.5	0.2399	14M1G7D	0.1928	14M1W7D
20	2510.0 ~ 2560.0	0.2438	18M9G7D	0.1914	18M9W7D
25	2512.5 ~ 2557.5	0.2500	23M8G7D	0.1986	23M8W7D
30	2515.0 ~ 2555.0	0.2489	28M5G7D	0.2000	28M6W7D
35	2517.5 ~ 2552.5	0.2415	33M5G7D	0.1968	33M6W7D
40	2520.0 ~ 2550.0	0.2466	38M5G7D	0.2000	38M6W7D

5G NR n7 UL MIMO		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2502.5 ~ 2567.5	0.2061	4M49G7D	0.2090	4M48W7D
10	2505.0 ~ 2565.0	0.1979	9M28G7D	0.2117	9M30W7D
15	2507.5 ~ 2562.5	0.2040	14M1G7D	0.2108	14M1W7D
20	2510.0 ~ 2560.0	0.2043	18M9G7D	0.1967	19M0W7D
25	2512.5 ~ 2557.5	0.2115	23M8G7D	0.2129	23M8W7D
30	2515.0 ~ 2555.0	0.2073	28M6G7D	0.2102	28M6W7D
35	2517.5 ~ 2552.5	0.2173	33M6G7D	0.2092	33M6W7D
40	2520.0 ~ 2550.0	0.2107	38M7G7D	0.2092	38M6W7D
50	2525.0 ~ 2545.0	0.2615	48M3G7D	0.2230	48M4W7D



5G NR n38 SA - Main PA		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	2575.0 ~ 2615.0	0.1824	8M57G7D	0.1432	8M59W7D
15	2577.5 ~ 2612.5	0.1828	13M5G7D	0.1355	13M6W7D
20	2580.0 ~ 2610.0	0.1766	18M2G7D	0.1416	18M3W7D
25	2582.5 ~ 2607.5	0.1919	23M2G7D	0.1514	23M2W7D
30	2585.0 ~ 2605.0	0.1824	27M8G7D	0.1368	27M9W7D
40	2590.0 ~ 2600.0	0.1888	37M9G7D	0.1514	37M8W7D

5G NR n38 NSA - Other PA		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	2575.0 ~ 2615.0	0.2296	8M57G7D	0.1791	8M59W7D
15	2577.5 ~ 2612.5	0.2421	13M6G7D	0.1888	13M6W7D
20	2580.0 ~ 2610.0	0.2388	18M2G7D	0.1879	18M2W7D
25	2582.5 ~ 2607.5	0.2483	23M2G7D	0.1901	23M2W7D
30	2585.0 ~ 2605.0	0.2455	27M9G7D	0.1928	27M8W7D
40	2590.0 ~ 2600.0	0.2427	37M9G7D	0.1854	37M9W7D

5G NR n41 SA - Main PA		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	2501.01 ~ 2685.00	0.2594	8M57G7D	0.2018	8M59W7D
15	2503.50 ~ 2682.48	0.2612	13M5G7D	0.2023	13M6W7D
20	2506.02 ~ 2679.99	0.2564	18M2G7D	0.2009	18M3W7D
25	2508.51 ~ 2677.5	0.2600	23M2G7D	0.2113	23M2W7D
30	2511.00 ~ 2674.98	0.2600	27M8G7D	0.2123	27M9W7D
35	2513.52 ~ 2672.49	0.2582	32M8G7D	0.2148	32M9W7D
40	2516.01 ~ 2670.00	0.2588	37M9G7D	0.2080	37M8W7D
45	2518.5 ~ 2667.48	0.2600	42M4G7D	0.2153	42M6W7D
50	2521.02 ~ 2664.99	0.2618	47M4G7D	0.2118	47M5W7D
60	2526.00 ~ 2659.98	0.2582	57M9G7D	0.2051	57M9W7D
70	2531.01 ~ 2655.00	0.2588	67M4G7D	0.2183	67M6W7D
80	2536.02 ~ 2649.99	0.2618	77M4G7D	0.2163	77M6W7D
90	2541.00 ~ 2644.98	0.2612	87M5G7D	0.2270	87M6W7D
100	2546.01 ~ 2640.00	0.2618	97M4G7D	0.2291	97M5W7D



5G NR n41 NSA - Other PA		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	2503.50 ~ 2682.48	0.2588	8M59G7D	0.2323	8M58W7D
15	2503.50 ~ 2682.48	0.2838	13M6G7D	0.1972	13M6W7D
20	2506.02 ~ 2679.99	0.2500	18M2G7D	0.1941	18M2W7D
25	2508.51 ~ 2677.5	0.2661	23M2G7D	0.2089	23M2W7D
30	2511.00 ~ 2674.98	0.2655	27M8G7D	0.2080	27M8W7D
35	2513.52 ~ 2672.49	0.2500	32M8G7D	0.2042	32M9W7D
40	2516.01 ~ 2670.00	0.2506	37M9G7D	0.2018	37M9W7D
45	2518.5 ~ 2667.48	0.2630	42M5G7D	0.2138	42M6W7D
50	2521.02 ~ 2664.99	0.2612	47M3G7D	0.2080	47M4W7D
60	2526.00 ~ 2659.98	0.2588	57M7G7D	0.2138	57M7W7D
70	2531.01 ~ 2655.00	0.2698	67M4G7D	0.2249	67M5W7D
80	2536.02 ~ 2649.99	0.2767	77M5G7D	0.2193	77M5W7D
90	2541.00 ~ 2644.98	0.2742	87M3G7D	0.2203	87M4W7D
100	2546.01 ~ 2640.00	0.2884	97M5G7D	0.2328	97M4W7D

5G NR n38_UL MIMO		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	2575.0 ~ 2615.0	0.1715	8M58G7D	0.1637	8M59W7D
15	2577.5 ~ 2612.5	0.1714	13M6G7D	0.1686	13M6W7D
20	2580.0 ~ 2610.0	0.1949	18M2G7D	0.1709	18M2W7D
25	2582.5 ~ 2607.5	0.1652	23M2G7D	0.1604	23M2W7D
30	2585.0 ~ 2605.0	0.1690	27M9G7D	0.1406	27M9W7D
40	2590.0 ~ 2600.0	0.1783	37M8G7D	0.1424	37M9W7D



5G NR n41_UL MIMO		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	2501.01 ~ 2685.00	0.2991	8M58G7D	0.2661	8M59W7D
15	2503.50 ~ 2682.48	0.3049	13M6G7D	0.2776	13M6W7D
20	2506.02 ~ 2679.99	0.3031	18M2G7D	0.2787	18M2W7D
25	2508.51 ~ 2677.5	0.3229	23M2G7D	0.2884	23M2W7D
30	2511.00 ~ 2674.98	0.3281	27M9G7D	0.2956	27M9W7D
35	2513.52 ~ 2672.49	0.3218	32M9G7D	0.2845	32M9W7D
40	2516.01 ~ 2670.00	0.3064	37M8G7D	0.2721	37M9W7D
45	2518.5 ~ 2667.48	0.3116	42M5G7D	0.2861	42M7W7D
50	2521.02 ~ 2664.99	0.3164	47M5G7D	0.2858	47M7W7D
60	2526.00 ~ 2659.98	0.3115	57M9G7D	0.2778	57M8W7D
70	2531.01 ~ 2655.00	0.3076	67M5G7D	0.2787	67M7W7D
80	2536.02 ~ 2649.99	0.3081	77M6G7D	0.2785	77M6W7D
90	2541.00 ~ 2644.98	0.3119	87M6G7D	0.2792	87M5W7D
100	2546.01 ~ 2640.00	0.3287	97M7G7D	0.2906	97M7W7D

5G NR n12		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
5	701.5 ~ 713.5	0.1076	4M47G7D	0.0873	4M48W7D
10	704.0~ 711.0	0.1102	9M27G7D	0.0869	9M30W7D
15	706.5 ~ 708.5	0.1122	14M1G7D	0.0891	14M1W7D

Note:

- 5G NR n41 overlaps the entire frequency range of 5G NR n38. Therefore, the test results provided in this report covers 5G NR n41 as well as 5G NR n38 for SISO&MIMO mode.
- All modulations have been tested, only the worst test results of PSK & QAM are shown in the report.



1.7 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH04-KS TH01-KS	CN1257	314309

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	TH01-KS	Tonscend	JS1120-3 test system China_210602	3.3.10
2.	03CH04-KS	AUDIX	E3	210616

1.9 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 27
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

All test items were verified and recorded according to the standards and without any deviation during the test.

2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.

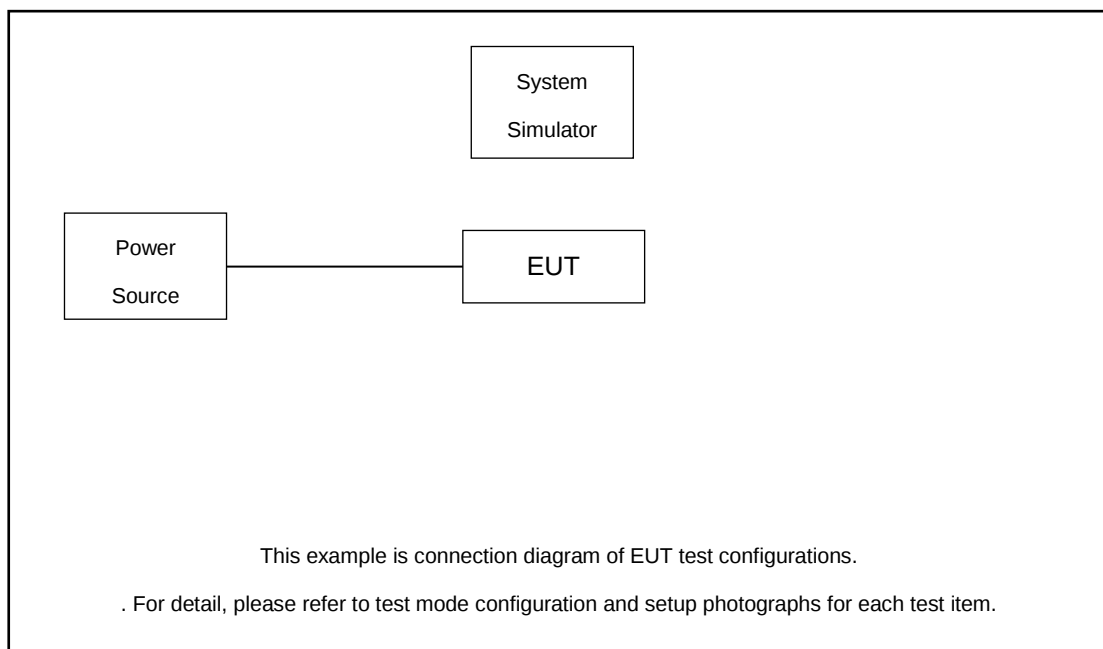
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			

Test Items	5G NR	Bandwidth (MHz)													Modulation					RB #		Test Channel		
		5	10	15	20	25	30	35	40	45	50	60-80	90	100	PI/2 BPSK	QPSK	16 QAM	64 QAM	256 QAM	1	Full	L	M	H
Max. Output Power	n7	v	v	v	v	v	v	v	v	-	v	-	-	-	v	v	v	v	v	v	v	v	v	v
	n12	v	v	v	-	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n38	-	v	v	v	v	v	-	v	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n41	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	n7				v					-		-	-	-	v	v				v	v		v	
	n12			v	-	-	-	-	-	-	-	-	-	-	v	v				v	v		v	
	n41	-			v										v	v				v	v		v	
26dB and 99% Bandwidth	n7	v	v	v	v	v	v	v	v	-	v	-	-	-		v	v	v	v		v		v	
	n12	v	v	v	-	-	-	-	-	-	-	-	-	-		v	v	v	v		v		v	
	n41	-	v	v	v	v	v	v	v	v	v	v	v	v		v	v	v	v		v		v	
Conducted Band Edge	n7	v			v	v			v	-	v	-	-	-	v	v				v	v	v		v
	n12	v	v	v	-	-	-	-	-	-	-	-	-	-	v	v				v	v	v		v
	n41	-	v	v							v			v	v	v				v	v	v		v
Conducted Spurious Emission	n7	v			v	v			v	-	v	-	-	-	v	v				v		v	v	v
	n12	v	v	v	-	-	-	-	-	-	-	-	-	-	v	v				v		v	v	v
	n41	-	v	v							v			v	v	v				v		v	v	v
Frequency	n7				v					-		-	-	-		v					v		v	



Test Items	5G NR	Bandwidth (MHz)													Modulation				RB #		Test Channel			
		5	10	15	20	25	30	35	40	45	50	60-80	90	100	PI/2 BPSK	QPSK	16 QAM	64 QAM	256 QAM	1	Full	L	M	H
Stability	n12			v	-	-	-	-	-	-	-	-	-		v						v		v	
	n41	-			v										v						v		v	
E.R.P / E.I.R.P	n7	v	v	v	v	v	v	v	v	-	v	-	-	-	v	v	v	v	v	v	v	v	v	v
	n12	v	v	v	-	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n38	-	v	v	v	v	v	-	v	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n41	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Radiated Spurious Emission	n7	Worst Case																					v	
	n12	Worst Case																					v	
	n41	Worst Case																					v	
Note	1. The mark “v ” means that this configuration is chosen for testing 2. The mark “-” means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported 4. Frequency Stability : Normal Voltage = 3.8V ; Low Voltage =3.6V. ; High Voltage =4.3V																							

2.2 Connection Diagram of Test System



The EUT has been configuration operated in a manner tended to maximize its emission characteristics in a typical application.

2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	DC Power Supply	GW	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
3.	NR Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 6.0 dB and 20dB attenuator.

Example :

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 6.0 + 20 = 26.0 \text{ (dB)}\end{aligned}$$



2.5 Frequency List of Low/Middle/High Channels

5G NR n7 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
50	Channel	505000	507000	509000
	Frequency	2525	2535	2545
40	Channel	504000	507000	510000
	Frequency	2520	2535	2550
35	Channel	503500	507000	501500
	Frequency	2517.5	2535	2552.5
30	Channel	503000	507000	511000
	Frequency	2515	2535	2555
25	Channel	502500	507000	511500
	Frequency	2512.5	2535	2557.5
20	Channel	502000	507000	512000
	Frequency	2510	2535	2560
15	Channel	501500	507000	512500
	Frequency	2507.5	2535	2562.5
10	Channel	501000	507000	513000
	Frequency	2505	2535	2565
5	Channel	500500	507000	513500
	Frequency	2502.5	2535	2567.5

5G NR n12 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
15	Channel	141300	141500	141700
	Frequency	706.5	707.5	708.5
10	Channel	140800	141500	142200
	Frequency	704	707.5	711
5	Channel	140300	141500	142700
	Frequency	701.5	707.5	713.5



5G NR n38 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
40	Channel	518000	519000	520000
	Frequency	2590	2595	2600
30	Channel	517000	519000	521000
	Frequency	2585	2595	2605
25	Channel	516500	519000	521500
	Frequency	2582.5	2595	2607.5
20	Channel	516000	519000	522000
	Frequency	2580	2595	2610
15	Channel	515500	519000	522500
	Frequency	2577.5	2595	2612.5
10	Channel	515000	519000	523000
	Frequency	2575	2595	2615

5G NR n41 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	509202	518598	528000
	Frequency	2546.01	2592.99	2640
90	Channel	508200	518598	528996
	Frequency	2541	2592.99	2644.98
80	Channel	507204	518598	529998
	Frequency	2536.02	2592.99	2649.99
70	Channel	506202	518598	531000
	Frequency	2531.01	2592.99	2655
60	Channel	505200	518598	531996
	Frequency	2526	2592.99	2659.98
50	Channel	504204	518598	532998
	Frequency	2521.02	2592.99	2664.99
45	Channel	503700	518598	533496
	Frequency	2518.5	2592.99	2667.48



5G NR n41 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
40	Channel	503202	518598	534000
	Frequency	2516.01	2592.99	2670
35	Channel	502704	518598	534498
	Frequency	2513.52	2592.99	2672.49
30	Channel	502200	518598	534996
	Frequency	2511	2592.99	2674.98
25	Channel	501702	518598	535500
	Frequency	2508.51	2592.99	2677.5
20	Channel	501204	518598	535998
	Frequency	2506.02	2592.99	2679.99
15	Channel	500700	518598	536496
	Frequency	2503.5	2592.99	2682.48
10	Channel	500202	518598	537000
	Frequency	2501.01	2592.99	2685

3 Conducted Test Items

3.1 Measuring Instruments

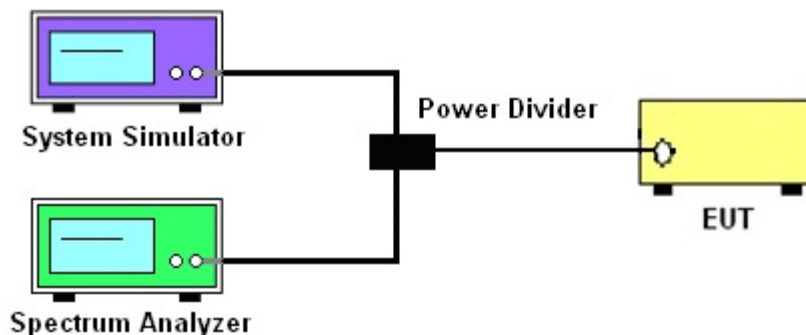
See list of measuring instruments of this test report.

3.2 Test Setup

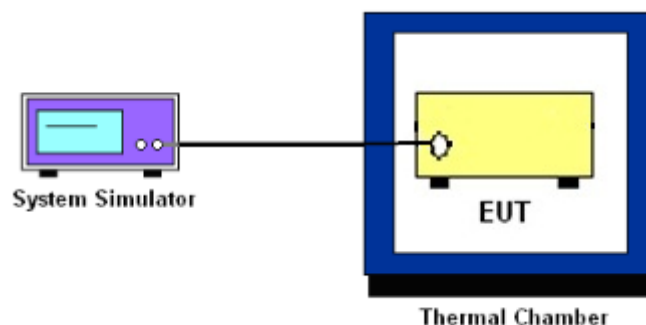
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and ERP/EIRP

3.4.1 Description of the Conducted Output Power Measurement and ERP/EIRP Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 3 Watts for 5G NR n12.

The EIRP of mobile transmitters must not exceed 2 Watts for 5G NR n7, n38, n41.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

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

3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.5.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.



3.6 Occupied Bandwidth

3.6.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.6.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.4
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
(this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

27.53 (g)

For operations in the 600MHz band and 698 -746 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

27.53(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.

3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW $\geq 1\%$ / 2% EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used or a narrower RBW was used (generally limited to no less than 1% of the OBW) and the measured power was integrated over the full required measurement bandwidth.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.

Example:

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)} = -13\text{dBm}.$$

9. For 5G NR n7/n38/n41, the other 40 dB, and 55 dB have additionally applied same calculation above.
10. When using the integration method, the starting frequency of the integration shall be centered at one-half of the RBW away from the band edge.

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For 5G NR n7/n38/n41:

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
 $= -13$ dBm.
11. For 5G NR n7/n38/n41
The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [55 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[55 + 10\log(P)]$ (dB)
 $= -25$ dBm.

3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block.

3.9.2 Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.9.3 Test Procedures for Voltage Variation

1. The testing follows ANSI C63.26 section 5.6.5
2. The EUT was placed in a temperature chamber at 20±5°C and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

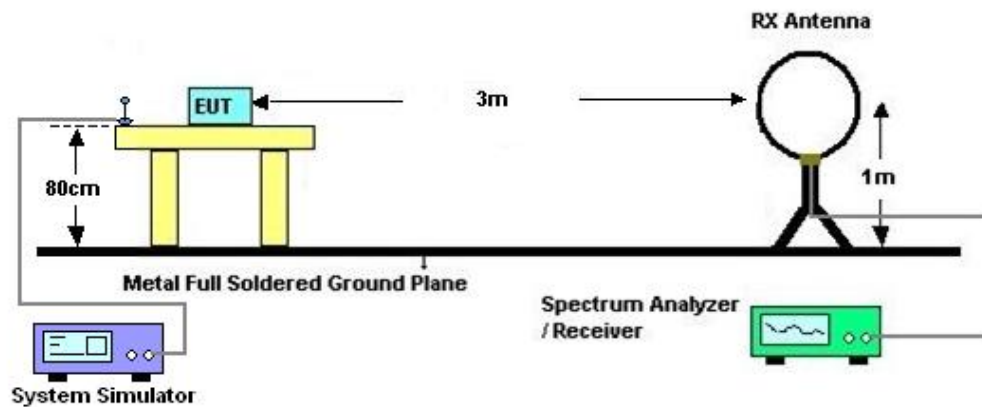
4 Radiated Test Items

4.1 Measuring Instruments

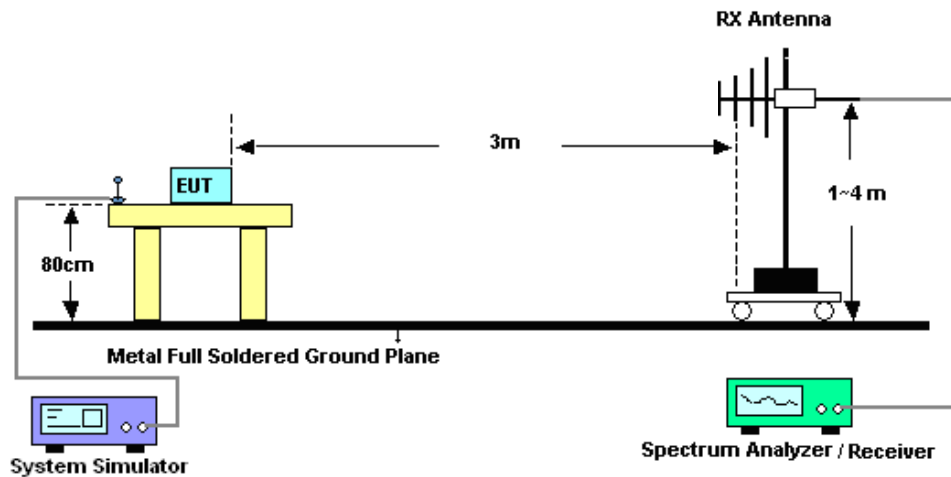
See list of measuring instruments of this test report.

4.2 Test Setup

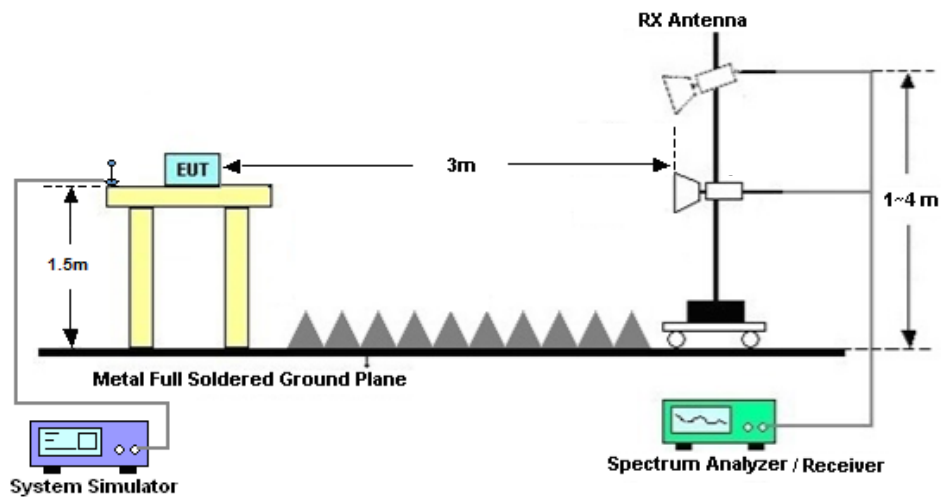
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix B.

4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For 5G NR n7/n38/n41

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
11. $ERP \text{ (dBm)} = EIRP - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)\text{dB}$ below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}.$

13. For 5G NR n7/n38/n41:

The limit line is derived from $55 + 10\log(P)\text{dB}$ below the transmitter power P(Watts)The limit line is derived from $55 + 10\log(P)\text{dB}$ below the transmitter power P(Watts)



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EXA Spectrum Analyzer	Keysight	N9010B	MY57471079	10Hz-44G,MAX 30dB	Oct. 11, 2023	Aug. 30, 2024~ Oct. 16, 2024	Oct. 10, 2024	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY57471079	10Hz-44G,MAX 30dB	Oct. 10, 2024		Oct. 09, 2025	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Aug. 30, 2024~ Oct. 16, 2024	NCR	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 04, 2024	Aug. 30, 2024~ Oct. 16, 2024	Jul. 03, 2025	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY56400004	3Hz~8.5GHz;Max 30dBm	Oct. 11, 2023	Sep. 27, 2024~ Oct. 10, 2024	Oct. 10, 2024	Radiation (03CH04-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY57471079	10Hz-44G,MAX 30dB	Oct. 11, 2023	Sep. 27, 2024~ Oct. 10, 2024	Oct. 10, 2024	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 08, 2024	Sep. 27, 2024~ Oct. 10, 2024	Sep. 07, 2025	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Dec. 06, 2023	Sep. 27, 2024~ Oct. 10, 2024	Dec. 05, 2024	Radiation (03CH04-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Oct. 23, 2023	Sep. 27, 2024~ Oct. 10, 2024	Oct. 22, 2024	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 27, 2024	Sep. 27, 2024~ Oct. 10, 2024	Jan. 26, 2025	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	413740	9KHz-1GHz	Jan. 03, 2024	Sep. 27, 2024~ Oct. 10, 2024	Jan. 02, 2025	Radiation (03CH04-KS)
Amplifier	EM	EM18G40G A	060728	18~40GHz	Jan. 02, 2024	Sep. 27, 2024~ Oct. 10, 2024	Jan. 01, 2025	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18G A	060840	1Ghz-18Ghz	Oct. 11, 2023	Sep. 27, 2024~ Oct. 10, 2024	Oct. 10, 2024	Radiation (03CH04-KS)
Amplifier	EM	EM01G18G A	060892	1Ghz-18Ghz	Oct. 11, 2023	Sep. 27, 2024~ Oct. 10, 2024	Oct. 10, 2024	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Sep. 27, 2024~ Oct. 10, 2024	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Sep. 27, 2024~ Oct. 10, 2024	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Sep. 27, 2024~ Oct. 10, 2024	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required

6 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage $K=2$ to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Conducted Spurious Emission & Bandedge	± 2.22 dB
Occupied Channel Bandwidth	$\pm 0.1\%$
Conducted Power	± 0.50 dB
Peak to Average Ratio	± 0.50 dB
Frequency Stability	± 0.04 Hz

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring uncertainty for a level of Confidence of 95% ($u = 2uc(y)$)	2.83 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.83 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.82 dB
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----- THE END -----



Appendix A. Test Results of Conducted Test

Test Engineer :	Simle Wang	Temperature :	22~23°C
		Relative Humidity :	40~42%

Conducted Output Power(Average power) and EIRP

5G NR n7 <Ant.4> (Main PA)

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
7	15	5	500500	2502.5	DFT-s-OFDM PI/2 BPSK	1@1	24.99	22.19	0.1656
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	1@1	25.16	22.36	0.1722
7	15	5	500500	2502.5	DFT-s-OFDM 16 QAM	1@1	24.09	21.29	0.1346
7	15	5	507000	2535	DFT-s-OFDM PI/2 BPSK	1@1	25.18	22.38	0.1730
7	15	5	507000	2535	DFT-s-OFDM QPSK	1@1	25.30	22.50	0.1778
7	15	5	507000	2535	DFT-s-OFDM 16 QAM	1@1	24.42	21.62	0.1452
7	15	5	513500	2567.5	DFT-s-OFDM PI/2 BPSK	1@1	25.12	22.32	0.1706
7	15	5	513500	2567.5	DFT-s-OFDM QPSK	1@1	25.16	22.36	0.1722
7	15	5	513500	2567.5	DFT-s-OFDM 16 QAM	1@1	24.35	21.55	0.1429
7	15	10	501000	2505	DFT-s-OFDM PI/2 BPSK	1@1	25.19	22.39	0.1734
7	15	10	501000	2505	DFT-s-OFDM QPSK	1@1	25.09	22.29	0.1694
7	15	10	501000	2505	DFT-s-OFDM 16 QAM	1@1	24.08	21.28	0.1343
7	15	10	507000	2535	DFT-s-OFDM PI/2 BPSK	1@1	25.31	22.51	0.1782
7	15	10	507000	2535	DFT-s-OFDM QPSK	1@1	25.35	22.55	0.1799
7	15	10	507000	2535	DFT-s-OFDM 16 QAM	1@1	24.44	21.64	0.1459
7	15	10	513000	2565	DFT-s-OFDM PI/2 BPSK	1@1	25.31	22.51	0.1782
7	15	10	513000	2565	DFT-s-OFDM QPSK	1@1	25.30	22.50	0.1778
7	15	10	513000	2565	DFT-s-OFDM 16 QAM	1@1	24.37	21.57	0.1435
7	15	15	501500	2507.5	DFT-s-OFDM PI/2 BPSK	1@1	25.03	22.23	0.1671
7	15	15	501500	2507.5	DFT-s-OFDM QPSK	1@1	25.11	22.31	0.1702
7	15	15	501500	2507.5	DFT-s-OFDM 16 QAM	1@1	24.20	21.40	0.1380
7	15	15	507000	2535	DFT-s-OFDM PI/2 BPSK	1@1	25.19	22.39	0.1734
7	15	15	507000	2535	DFT-s-OFDM QPSK	1@1	25.43	22.63	0.1832
7	15	15	507000	2535	DFT-s-OFDM 16 QAM	1@1	24.40	21.60	0.1445
7	15	15	512500	2562.5	DFT-s-OFDM PI/2 BPSK	1@1	25.29	22.49	0.1774
7	15	15	512500	2562.5	DFT-s-OFDM QPSK	1@1	25.24	22.44	0.1754
7	15	15	512500	2562.5	DFT-s-OFDM 16 QAM	1@1	24.42	21.62	0.1452
7	15	20	502000	2510	DFT-s-OFDM PI/2 BPSK	1@1	25.11	22.31	0.1702
7	15	20	502000	2510	DFT-s-OFDM QPSK	1@1	25.02	22.22	0.1667
7	15	20	502000	2510	DFT-s-OFDM 16 QAM	1@1	24.15	21.35	0.1365
7	15	20	507000	2535	DFT-s-OFDM PI/2 BPSK	1@1	25.30	22.50	0.1778
7	15	20	507000	2535	DFT-s-OFDM QPSK	1@1	25.28	22.48	0.1770
7	15	20	507000	2535	DFT-s-OFDM 16 QAM	1@1	24.46	21.66	0.1466
7	15	20	512000	2560	DFT-s-OFDM PI/2 BPSK	1@1	25.33	22.53	0.1791
7	15	20	512000	2560	DFT-s-OFDM QPSK	1@1	25.34	22.54	0.1795
7	15	20	512000	2560	DFT-s-OFDM 16 QAM	1@1	24.46	21.66	0.1466
7	15	25	502500	2512.5	DFT-s-OFDM PI/2 BPSK	1@1	25.18	22.38	0.1730



7	15	25	502500	2512.5	DFT-s-OFDM QPSK	1@1	25.13	22.33	0.1710
7	15	25	502500	2512.5	DFT-s-OFDM 16 QAM	1@1	24.24	21.44	0.1393
7	15	25	507000	2535	DFT-s-OFDM PI/2 BPSK	1@1	25.31	22.51	0.1782
7	15	25	507000	2535	DFT-s-OFDM QPSK	1@1	25.47	22.67	0.1849
7	15	25	507000	2535	DFT-s-OFDM 16 QAM	1@1	24.50	21.70	0.1479
7	15	25	511500	2557.5	DFT-s-OFDM PI/2 BPSK	1@1	25.42	22.62	0.1828
7	15	25	511500	2557.5	DFT-s-OFDM QPSK	1@1	25.27	22.47	0.1766
7	15	25	511500	2557.5	DFT-s-OFDM 16 QAM	1@1	24.38	21.58	0.1439
7	15	30	503000	2515	DFT-s-OFDM PI/2 BPSK	1@1	25.18	22.38	0.1730
7	15	30	503000	2515	DFT-s-OFDM QPSK	1@1	25.21	22.41	0.1742
7	15	30	503000	2515	DFT-s-OFDM 16 QAM	1@1	24.28	21.48	0.1406
7	15	30	507000	2535	DFT-s-OFDM PI/2 BPSK	1@1	25.40	22.60	0.1820
7	15	30	507000	2535	DFT-s-OFDM QPSK	1@1	25.46	22.66	0.1845
7	15	30	507000	2535	DFT-s-OFDM 16 QAM	1@1	24.48	21.68	0.1472
7	15	30	511000	2555	DFT-s-OFDM PI/2 BPSK	1@1	25.49	22.69	0.1858
7	15	30	511000	2555	DFT-s-OFDM QPSK	1@1	25.23	22.43	0.1750
7	15	30	511000	2555	DFT-s-OFDM 16 QAM	1@1	24.23	21.43	0.1390
7	15	35	503500	2517.5	DFT-s-OFDM PI/2 BPSK	1@1	25.00	22.20	0.1660
7	15	35	503500	2517.5	DFT-s-OFDM QPSK	1@1	25.05	22.25	0.1679
7	15	35	503500	2517.5	DFT-s-OFDM 16 QAM	1@1	24.17	21.37	0.1371
7	15	35	507000	2535	DFT-s-OFDM PI/2 BPSK	1@1	25.26	22.46	0.1762
7	15	35	507000	2535	DFT-s-OFDM QPSK	1@1	25.28	22.48	0.1770
7	15	35	507000	2535	DFT-s-OFDM 16 QAM	1@1	24.51	21.71	0.1483
7	15	35	501500	2552.5	DFT-s-OFDM PI/2 BPSK	1@1	25.26	22.46	0.1762
7	15	35	501500	2552.5	DFT-s-OFDM QPSK	1@1	25.14	22.34	0.1714
7	15	35	501500	2552.5	DFT-s-OFDM 16 QAM	1@1	24.34	21.54	0.1426
7	15	40	504000	2520	DFT-s-OFDM PI/2 BPSK	1@1	25.13	22.33	0.1710
7	15	40	504000	2520	DFT-s-OFDM QPSK	1@1	25.17	22.37	0.1726
7	15	40	504000	2520	DFT-s-OFDM 16 QAM	1@1	24.07	21.27	0.1340
7	15	40	507000	2535	DFT-s-OFDM PI/2 BPSK	1@1	25.33	22.53	0.1791
7	15	40	507000	2535	DFT-s-OFDM QPSK	1@1	25.44	22.64	0.1837
7	15	40	507000	2535	DFT-s-OFDM 16 QAM	1@1	24.58	21.78	0.1507
7	15	40	510000	2550	DFT-s-OFDM PI/2 BPSK	1@1	25.26	22.46	0.1762
7	15	40	510000	2550	DFT-s-OFDM QPSK	1@1	25.25	22.45	0.1758
7	15	40	510000	2550	DFT-s-OFDM 16 QAM	1@1	24.38	21.58	0.1439
7	15	50	505000	2525	DFT-s-OFDM PI/2 BPSK	135@67	25.49	22.69	0.1858
7	15	50	505000	2525	DFT-s-OFDM PI/2 BPSK	1@1	25.33	22.53	0.1791
7	15	50	505000	2525	DFT-s-OFDM PI/2 BPSK	1@268	25.50	22.70	0.1862
7	15	50	505000	2525	DFT-s-OFDM QPSK	135@67	25.51	22.71	0.1866
7	15	50	505000	2525	DFT-s-OFDM QPSK	1@1	25.11	22.31	0.1702
7	15	50	505000	2525	DFT-s-OFDM QPSK	1@268	25.38	22.58	0.1811
7	15	50	505000	2525	DFT-s-OFDM 16 QAM	135@67	24.66	21.86	0.1535
7	15	50	505000	2525	DFT-s-OFDM 16 QAM	1@1	24.07	21.27	0.1340
7	15	50	505000	2525	DFT-s-OFDM 16 QAM	1@268	24.36	21.56	0.1432
7	15	50	505000	2525	DFT-s-OFDM 64 QAM	135@67	23.20	20.40	0.1096
7	15	50	505000	2525	DFT-s-OFDM 64 QAM	1@1	22.85	20.05	0.1012
7	15	50	505000	2525	DFT-s-OFDM 64 QAM	1@268	23.29	20.49	0.1119
7	15	50	505000	2525	DFT-s-OFDM 256 QAM	135@67	21.08	18.28	0.0673
7	15	50	505000	2525	DFT-s-OFDM 256 QAM	1@1	20.50	17.70	0.0589
7	15	50	505000	2525	DFT-s-OFDM 256 QAM	1@268	20.55	17.75	0.0596



7	15	50	505000	2525	CP-OFDM QPSK	135@67	24.21	21.41	0.1384
7	15	50	505000	2525	CP-OFDM QPSK	1@1	23.86	21.06	0.1276
7	15	50	505000	2525	CP-OFDM QPSK	1@268	24.12	21.32	0.1355
7	15	50	507000	2535	DFT-s-OFDM PI/2 BPSK	135@67	25.52	22.72	0.1871
7	15	50	507000	2535	DFT-s-OFDM PI/2 BPSK	1@1	25.48	22.68	0.1854
7	15	50	507000	2535	DFT-s-OFDM PI/2 BPSK	1@268	25.57	22.77	0.1892
7	15	50	507000	2535	DFT-s-OFDM QPSK	135@67	25.22	22.42	0.1746
7	15	50	507000	2535	DFT-s-OFDM QPSK	1@1	25.50	22.70	0.1862
7	15	50	507000	2535	DFT-s-OFDM QPSK	1@268	25.54	22.74	0.1879
7	15	50	507000	2535	DFT-s-OFDM 16 QAM	135@67	24.31	21.51	0.1416
7	15	50	507000	2535	DFT-s-OFDM 16 QAM	1@1	24.67	21.87	0.1538
7	15	50	507000	2535	DFT-s-OFDM 16 QAM	1@268	24.64	21.84	0.1528
7	15	50	507000	2535	DFT-s-OFDM 64 QAM	135@67	23.00	20.20	0.1047
7	15	50	507000	2535	DFT-s-OFDM 64 QAM	1@1	23.29	20.49	0.1119
7	15	50	507000	2535	DFT-s-OFDM 64 QAM	1@268	23.44	20.64	0.1159
7	15	50	507000	2535	DFT-s-OFDM 256 QAM	135@67	21.08	18.28	0.0673
7	15	50	507000	2535	DFT-s-OFDM 256 QAM	1@1	20.65	17.85	0.0610
7	15	50	507000	2535	DFT-s-OFDM 256 QAM	1@268	20.55	17.75	0.0596
7	15	50	507000	2535	CP-OFDM QPSK	135@67	24.03	21.23	0.1327
7	15	50	507000	2535	CP-OFDM QPSK	1@1	24.32	21.52	0.1419
7	15	50	507000	2535	CP-OFDM QPSK	1@268	24.31	21.51	0.1416
7	15	50	509000	2545	DFT-s-OFDM PI/2 BPSK	135@67	25.47	22.67	0.1849
7	15	50	509000	2545	DFT-s-OFDM PI/2 BPSK	1@1	25.50	22.70	0.1862
7	15	50	509000	2545	DFT-s-OFDM PI/2 BPSK	1@268	25.47	22.67	0.1849
7	15	50	509000	2545	DFT-s-OFDM QPSK	135@67	25.16	22.36	0.1722
7	15	50	509000	2545	DFT-s-OFDM QPSK	1@1	25.49	22.69	0.1858
7	15	50	509000	2545	DFT-s-OFDM QPSK	1@268	25.54	22.74	0.1879
7	15	50	509000	2545	DFT-s-OFDM 16 QAM	135@67	24.23	21.43	0.1390
7	15	50	509000	2545	DFT-s-OFDM 16 QAM	1@1	24.56	21.76	0.1500
7	15	50	509000	2545	DFT-s-OFDM 16 QAM	1@268	24.59	21.79	0.1510
7	15	50	509000	2545	DFT-s-OFDM 64 QAM	135@67	22.94	20.14	0.1033
7	15	50	509000	2545	DFT-s-OFDM 64 QAM	1@1	23.24	20.44	0.1107
7	15	50	509000	2545	DFT-s-OFDM 64 QAM	1@268	23.32	20.52	0.1127
7	15	50	509000	2545	DFT-s-OFDM 256 QAM	135@67	20.98	18.18	0.0658
7	15	50	509000	2545	DFT-s-OFDM 256 QAM	1@1	20.58	17.78	0.0600
7	15	50	509000	2545	DFT-s-OFDM 256 QAM	1@268	20.58	17.78	0.0600
7	15	50	509000	2545	CP-OFDM QPSK	135@67	23.98	21.18	0.1312
7	15	50	509000	2545	CP-OFDM QPSK	1@1	24.23	21.43	0.1390
7	15	50	509000	2545	CP-OFDM QPSK	1@268	24.29	21.49	0.1409



ENDC 5A_n7A <Ant.1+3> (Other PA)

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
7	15	5	500500	2502.5	DFT-s-OFDM PI/2 BPSK	1@1	24.19	23.69	0.2339
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	1@1	24.19	23.69	0.2339
7	15	5	500500	2502.5	DFT-s-OFDM 16 QAM	1@1	23.32	22.82	0.1914
7	15	5	507000	2535	DFT-s-OFDM PI/2 BPSK	1@1	24.21	23.71	0.2350
7	15	5	507000	2535	DFT-s-OFDM QPSK	1@1	24.19	23.69	0.2339
7	15	5	507000	2535	DFT-s-OFDM 16 QAM	1@1	23.32	22.82	0.1914
7	15	5	513500	2567.5	DFT-s-OFDM PI/2 BPSK	1@1	24.05	23.55	0.2265
7	15	5	513500	2567.5	DFT-s-OFDM QPSK	1@1	23.96	23.46	0.2218
7	15	5	513500	2567.5	DFT-s-OFDM 16 QAM	1@1	23.11	22.61	0.1824
7	15	10	501000	2505	DFT-s-OFDM PI/2 BPSK	1@1	24.36	23.86	0.2432
7	15	10	501000	2505	DFT-s-OFDM QPSK	1@1	24.26	23.76	0.2377
7	15	10	501000	2505	DFT-s-OFDM 16 QAM	1@1	23.28	22.78	0.1897
7	15	10	507000	2535	DFT-s-OFDM PI/2 BPSK	1@1	24.32	23.82	0.2410
7	15	10	507000	2535	DFT-s-OFDM QPSK	1@1	24.26	23.76	0.2377
7	15	10	507000	2535	DFT-s-OFDM 16 QAM	1@1	23.32	22.82	0.1914
7	15	10	513000	2565	DFT-s-OFDM PI/2 BPSK	1@1	24.21	23.71	0.2350
7	15	10	513000	2565	DFT-s-OFDM QPSK	1@1	24.17	23.67	0.2328
7	15	10	513000	2565	DFT-s-OFDM 16 QAM	1@1	23.13	22.63	0.1832
7	15	15	501500	2507.5	DFT-s-OFDM PI/2 BPSK	1@1	24.09	23.59	0.2286
7	15	15	501500	2507.5	DFT-s-OFDM QPSK	1@1	24.23	23.73	0.2360
7	15	15	501500	2507.5	DFT-s-OFDM 16 QAM	1@1	23.32	22.82	0.1914
7	15	15	507000	2535	DFT-s-OFDM PI/2 BPSK	1@1	24.29	23.79	0.2393
7	15	15	507000	2535	DFT-s-OFDM QPSK	1@1	24.30	23.80	0.2399
7	15	15	507000	2535	DFT-s-OFDM 16 QAM	1@1	23.35	22.85	0.1928
7	15	15	512500	2562.5	DFT-s-OFDM PI/2 BPSK	1@1	24.20	23.70	0.2344
7	15	15	512500	2562.5	DFT-s-OFDM QPSK	1@1	24.22	23.72	0.2355
7	15	15	512500	2562.5	DFT-s-OFDM 16 QAM	1@1	23.14	22.64	0.1837
7	15	20	502000	2510	DFT-s-OFDM PI/2 BPSK	1@1	24.25	23.75	0.2371
7	15	20	502000	2510	DFT-s-OFDM QPSK	1@1	24.14	23.64	0.2312
7	15	20	502000	2510	DFT-s-OFDM 16 QAM	1@1	23.26	22.76	0.1888
7	15	20	507000	2535	DFT-s-OFDM PI/2 BPSK	1@1	24.37	23.87	0.2438
7	15	20	507000	2535	DFT-s-OFDM QPSK	1@1	24.25	23.75	0.2371
7	15	20	507000	2535	DFT-s-OFDM 16 QAM	1@1	23.32	22.82	0.1914
7	15	20	512000	2560	DFT-s-OFDM PI/2 BPSK	1@1	24.26	23.76	0.2377
7	15	20	512000	2560	DFT-s-OFDM QPSK	1@1	24.09	23.59	0.2286
7	15	20	512000	2560	DFT-s-OFDM 16 QAM	1@1	23.20	22.70	0.1862
7	15	25	502500	2512.5	DFT-s-OFDM PI/2 BPSK	1@1	24.42	23.92	0.2466
7	15	25	502500	2512.5	DFT-s-OFDM QPSK	1@1	24.29	23.79	0.2393
7	15	25	502500	2512.5	DFT-s-OFDM 16 QAM	1@1	23.34	22.84	0.1923
7	15	25	507000	2535	DFT-s-OFDM PI/2 BPSK	1@1	24.48	23.98	0.2500
7	15	25	507000	2535	DFT-s-OFDM QPSK	1@1	24.37	23.87	0.2438
7	15	25	507000	2535	DFT-s-OFDM 16 QAM	1@1	23.48	22.98	0.1986
7	15	25	511500	2557.5	DFT-s-OFDM PI/2 BPSK	1@1	24.38	23.88	0.2443
7	15	25	511500	2557.5	DFT-s-OFDM QPSK	1@1	24.30	23.80	0.2399
7	15	25	511500	2557.5	DFT-s-OFDM 16 QAM	1@1	23.30	22.80	0.1905
7	15	30	503000	2515	DFT-s-OFDM PI/2 BPSK	1@1	24.36	23.86	0.2432
7	15	30	503000	2515	DFT-s-OFDM QPSK	1@1	24.28	23.78	0.2388



7	15	30	503000	2515	DFT-s-OFDM 16 QAM	1@1	23.40	22.90	0.1950
7	15	30	507000	2535	DFT-s-OFDM PI/2 BPSK	1@1	24.35	23.85	0.2427
7	15	30	507000	2535	DFT-s-OFDM QPSK	1@1	24.46	23.96	0.2489
7	15	30	507000	2535	DFT-s-OFDM 16 QAM	1@1	23.51	23.01	0.2000
7	15	30	511000	2555	DFT-s-OFDM PI/2 BPSK	1@1	24.36	23.86	0.2432
7	15	30	511000	2555	DFT-s-OFDM QPSK	1@1	24.31	23.81	0.2404
7	15	30	511000	2555	DFT-s-OFDM 16 QAM	1@1	23.35	22.85	0.1928
7	15	35	503500	2517.5	DFT-s-OFDM PI/2 BPSK	1@1	24.20	23.70	0.2344
7	15	35	503500	2517.5	DFT-s-OFDM QPSK	1@1	24.17	23.67	0.2328
7	15	35	503500	2517.5	DFT-s-OFDM 16 QAM	1@1	23.35	22.85	0.1928
7	15	35	507000	2535	DFT-s-OFDM PI/2 BPSK	1@1	24.33	23.83	0.2415
7	15	35	507000	2535	DFT-s-OFDM QPSK	1@1	24.27	23.77	0.2382
7	15	35	507000	2535	DFT-s-OFDM 16 QAM	1@1	23.44	22.94	0.1968
7	15	35	501500	2552.5	DFT-s-OFDM PI/2 BPSK	1@1	24.15	23.65	0.2317
7	15	35	501500	2552.5	DFT-s-OFDM QPSK	1@1	24.14	23.64	0.2312
7	15	35	501500	2552.5	DFT-s-OFDM 16 QAM	1@1	23.26	22.76	0.1888
7	15	40	504000	2520	DFT-s-OFDM PI/2 BPSK	108@54	24.32	23.82	0.2410
7	15	40	504000	2520	DFT-s-OFDM PI/2 BPSK	1@1	24.30	23.80	0.2399
7	15	40	504000	2520	DFT-s-OFDM PI/2 BPSK	1@214	24.21	23.71	0.2350
7	15	40	504000	2520	DFT-s-OFDM QPSK	108@54	24.38	23.88	0.2443
7	15	40	504000	2520	DFT-s-OFDM QPSK	1@1	24.29	23.79	0.2393
7	15	40	504000	2520	DFT-s-OFDM QPSK	1@214	24.18	23.68	0.2333
7	15	40	504000	2520	DFT-s-OFDM 16 QAM	108@54	23.30	22.80	0.1905
7	15	40	504000	2520	DFT-s-OFDM 16 QAM	1@1	23.27	22.77	0.1892
7	15	40	504000	2520	DFT-s-OFDM 16 QAM	1@214	23.23	22.73	0.1875
7	15	40	504000	2520	DFT-s-OFDM 64 QAM	108@54	21.85	21.35	0.1365
7	15	40	504000	2520	DFT-s-OFDM 64 QAM	1@1	21.63	21.13	0.1297
7	15	40	504000	2520	DFT-s-OFDM 64 QAM	1@214	21.62	21.12	0.1294
7	15	40	504000	2520	DFT-s-OFDM 256 QAM	108@54	19.80	19.30	0.0851
7	15	40	504000	2520	DFT-s-OFDM 256 QAM	1@1	19.34	18.84	0.0766
7	15	40	504000	2520	DFT-s-OFDM 256 QAM	1@214	19.18	18.68	0.0738
7	15	40	504000	2520	CP-OFDM QPSK	108@54	22.83	22.33	0.1710
7	15	40	504000	2520	CP-OFDM QPSK	1@1	22.88	22.38	0.1730
7	15	40	504000	2520	CP-OFDM QPSK	1@214	22.74	22.24	0.1675
7	15	40	507000	2535	DFT-s-OFDM PI/2 BPSK	108@54	24.35	23.85	0.2427
7	15	40	507000	2535	DFT-s-OFDM PI/2 BPSK	1@1	24.42	23.92	0.2466
7	15	40	507000	2535	DFT-s-OFDM PI/2 BPSK	1@214	24.22	23.72	0.2355
7	15	40	507000	2535	DFT-s-OFDM QPSK	108@54	24.36	23.86	0.2432
7	15	40	507000	2535	DFT-s-OFDM QPSK	1@1	24.41	23.91	0.2460
7	15	40	507000	2535	DFT-s-OFDM QPSK	1@214	24.15	23.65	0.2317
7	15	40	507000	2535	DFT-s-OFDM 16 QAM	108@54	23.27	22.77	0.1892
7	15	40	507000	2535	DFT-s-OFDM 16 QAM	1@1	23.51	23.01	0.2000
7	15	40	507000	2535	DFT-s-OFDM 16 QAM	1@214	23.17	22.67	0.1849
7	15	40	507000	2535	DFT-s-OFDM 64 QAM	108@54	21.86	21.36	0.1368
7	15	40	507000	2535	DFT-s-OFDM 64 QAM	1@1	21.78	21.28	0.1343
7	15	40	507000	2535	DFT-s-OFDM 64 QAM	1@214	21.55	21.05	0.1274
7	15	40	507000	2535	DFT-s-OFDM 256 QAM	108@54	19.84	19.34	0.0859
7	15	40	507000	2535	DFT-s-OFDM 256 QAM	1@1	19.53	19.03	0.0800
7	15	40	507000	2535	DFT-s-OFDM 256 QAM	1@214	19.23	18.73	0.0746
7	15	40	507000	2535	CP-OFDM QPSK	108@54	22.95	22.45	0.1758



7	15	40	507000	2535	CP-OFDM QPSK	1@1	22.96	22.46	0.1762
7	15	40	507000	2535	CP-OFDM QPSK	1@214	22.86	22.36	0.1722
7	15	40	510000	2550	DFT-s-OFDM PI/2 BPSK	108@54	24.38	23.88	0.2443
7	15	40	510000	2550	DFT-s-OFDM PI/2 BPSK	1@1	24.19	23.69	0.2339
7	15	40	510000	2550	DFT-s-OFDM PI/2 BPSK	1@214	24.02	23.52	0.2249
7	15	40	510000	2550	DFT-s-OFDM QPSK	108@54	24.28	23.78	0.2388
7	15	40	510000	2550	DFT-s-OFDM QPSK	1@1	24.13	23.63	0.2307
7	15	40	510000	2550	DFT-s-OFDM QPSK	1@214	23.03	22.53	0.1791
7	15	40	510000	2550	DFT-s-OFDM 16 QAM	108@54	23.23	22.73	0.1875
7	15	40	510000	2550	DFT-s-OFDM 16 QAM	1@1	23.18	22.68	0.1854
7	15	40	510000	2550	DFT-s-OFDM 16 QAM	1@214	22.83	22.33	0.1710
7	15	40	510000	2550	DFT-s-OFDM 64 QAM	108@54	22.01	21.51	0.1416
7	15	40	510000	2550	DFT-s-OFDM 64 QAM	1@1	21.48	20.98	0.1253
7	15	40	510000	2550	DFT-s-OFDM 64 QAM	1@214	21.42	20.92	0.1236
7	15	40	510000	2550	DFT-s-OFDM 256 QAM	108@54	19.97	19.47	0.0885
7	15	40	510000	2550	DFT-s-OFDM 256 QAM	1@1	19.17	18.67	0.0736
7	15	40	510000	2550	DFT-s-OFDM 256 QAM	1@214	19.21	18.71	0.0743
7	15	40	510000	2550	CP-OFDM QPSK	108@54	23.05	22.55	0.1799
7	15	40	510000	2550	CP-OFDM QPSK	1@1	22.84	22.34	0.1714
7	15	40	510000	2550	CP-OFDM QPSK	1@214	22.60	22.10	0.1622



5G NR n7 UL MIMO for Ant.3+4

NR Band	SCS	BandWidth	Arfcn	Freq (MHz)	Modulation	RB	ANT4 Power(dBm)	ANT3 Power(dBm)	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
7	15	5	500500	2502.5	CP-OFDM QPSK	1@1	20.66	20.60	23.64	23.14	0.2061
7	15	5	500500	2502.5	CP-OFDM 16 QAM	1@1	20.66	20.53	23.61	23.11	0.2044
7	15	5	500500	2502.5	CP-OFDM 64 QAM	1@1	19.15	19.24	22.21	21.71	0.1481
7	15	5	507000	2535	CP-OFDM QPSK	1@1	20.78	20.46	23.63	23.13	0.2057
7	15	5	507000	2535	CP-OFDM 16 QAM	1@1	20.78	20.60	23.70	23.20	0.2090
7	15	5	507000	2535	CP-OFDM 64 QAM	1@1	18.97	18.97	21.98	21.48	0.1406
7	15	5	513500	2567.5	CP-OFDM QPSK	1@1	20.48	20.22	23.36	22.86	0.1933
7	15	5	513500	2567.5	CP-OFDM 16 QAM	1@1	20.33	20.08	23.22	22.72	0.1869
7	15	5	513500	2567.5	CP-OFDM 64 QAM	1@1	18.94	18.91	21.94	21.44	0.1392
7	15	10	501000	2505	CP-OFDM QPSK	1@1	20.34	20.38	23.37	22.87	0.1937
7	15	10	501000	2505	CP-OFDM 16 QAM	1@1	20.34	20.83	23.60	23.10	0.2043
7	15	10	501000	2505	CP-OFDM 64 QAM	1@1	19.26	18.93	22.11	21.61	0.1448
7	15	10	507000	2535	CP-OFDM QPSK	1@1	20.48	20.43	23.47	22.97	0.1979
7	15	10	507000	2535	CP-OFDM 16 QAM	1@1	20.85	20.64	23.76	23.26	0.2117
7	15	10	507000	2535	CP-OFDM 64 QAM	1@1	18.90	18.97	21.95	21.45	0.1395
7	15	10	513000	2565	CP-OFDM QPSK	1@1	20.54	20.10	23.34	22.84	0.1921
7	15	10	513000	2565	CP-OFDM 16 QAM	1@1	20.49	20.08	23.30	22.80	0.1906
7	15	10	513000	2565	CP-OFDM 64 QAM	1@1	19.06	18.95	22.02	21.52	0.1418
7	15	15	501500	2507.5	CP-OFDM QPSK	1@1	20.59	20.49	23.55	23.05	0.2019
7	15	15	501500	2507.5	CP-OFDM 16 QAM	1@1	20.48	20.33	23.42	22.92	0.1957
7	15	15	501500	2507.5	CP-OFDM 64 QAM	1@1	19.05	19.16	22.12	21.62	0.1451
7	15	15	507000	2535	CP-OFDM QPSK	1@1	20.69	20.41	23.56	23.06	0.2024
7	15	15	507000	2535	CP-OFDM 16 QAM	1@1	20.90	20.55	23.74	23.24	0.2108
7	15	15	507000	2535	CP-OFDM 64 QAM	1@1	18.97	18.91	21.95	21.45	0.1396
7	15	15	512500	2562.5	CP-OFDM QPSK	1@1	20.67	20.50	23.60	23.10	0.2040
7	15	15	512500	2562.5	CP-OFDM 16 QAM	1@1	20.62	20.42	23.53	23.03	0.2010
7	15	15	512500	2562.5	CP-OFDM 64 QAM	1@1	19.19	19.21	22.21	21.71	0.1483
7	15	20	502000	2510	CP-OFDM QPSK	1@1	20.60	20.53	23.58	23.08	0.2030
7	15	20	502000	2510	CP-OFDM 16 QAM	1@1	20.49	20.33	23.42	22.92	0.1959
7	15	20	502000	2510	CP-OFDM 64 QAM	1@1	19.12	19.21	22.18	21.68	0.1471
7	15	20	507000	2535	CP-OFDM QPSK	1@1	20.62	20.47	23.56	23.06	0.2021
7	15	20	507000	2535	CP-OFDM 16 QAM	1@1	20.52	20.29	23.42	22.92	0.1957
7	15	20	507000	2535	CP-OFDM 64 QAM	1@1	19.11	19.12	22.13	21.63	0.1454
7	15	20	512000	2560	CP-OFDM QPSK	1@1	20.73	20.45	23.60	23.10	0.2043
7	15	20	512000	2560	CP-OFDM 16 QAM	1@1	20.58	20.27	23.44	22.94	0.1967
7	15	20	512000	2560	CP-OFDM 64 QAM	1@1	19.21	19.13	22.18	21.68	0.1472
7	15	25	502500	2512.5	CP-OFDM QPSK	1@1	20.76	20.69	23.74	23.24	0.2106
7	15	25	502500	2512.5	CP-OFDM 16 QAM	1@1	20.68	20.55	23.63	23.13	0.2054
7	15	25	502500	2512.5	CP-OFDM 64 QAM	1@1	19.28	19.45	22.38	21.88	0.1540
7	15	25	507000	2535	CP-OFDM QPSK	1@1	20.57	20.60	23.60	23.10	0.2040
7	15	25	507000	2535	CP-OFDM 16 QAM	1@1	20.90	20.64	23.78	23.28	0.2129
7	15	25	507000	2535	CP-OFDM 64 QAM	1@1	19.04	18.98	22.02	21.52	0.1419
7	15	25	511500	2557.5	CP-OFDM QPSK	1@1	20.87	20.61	23.75	23.25	0.2115
7	15	25	511500	2557.5	CP-OFDM 16 QAM	1@1	20.73	20.40	23.58	23.08	0.2032
7	15	25	511500	2557.5	CP-OFDM 64 QAM	1@1	19.32	19.27	22.31	21.81	0.1515
7	15	30	503000	2515	CP-OFDM QPSK	1@1	20.61	20.48	23.56	23.06	0.2021
7	15	30	503000	2515	CP-OFDM 16 QAM	1@1	20.51	20.30	23.42	22.92	0.1957



7	15	30	503000	2515	CP-OFDM 64 QAM	1@1	19.11	19.15	22.14	21.64	0.1459
7	15	30	507000	2535	CP-OFDM QPSK	1@1	20.74	20.57	23.67	23.17	0.2073
7	15	30	507000	2535	CP-OFDM 16 QAM	1@1	20.66	20.36	23.52	23.02	0.2006
7	15	30	507000	2535	CP-OFDM 64 QAM	1@1	19.16	19.29	22.24	21.74	0.1491
7	15	30	511000	2555	CP-OFDM QPSK	1@1	20.60	20.37	23.50	23.00	0.1994
7	15	30	511000	2555	CP-OFDM 16 QAM	1@1	20.92	20.50	23.73	23.23	0.2102
7	15	30	511000	2555	CP-OFDM 64 QAM	1@1	19.23	19.30	22.28	21.78	0.1505
7	15	35	503500	2517.5	CP-OFDM QPSK	1@1	20.67	20.50	23.60	23.10	0.2040
7	15	35	503500	2517.5	CP-OFDM 16 QAM	1@1	20.54	20.42	23.49	22.99	0.1991
7	15	35	503500	2517.5	CP-OFDM 64 QAM	1@1	19.19	19.23	22.22	21.72	0.1486
7	15	35	507000	2535	CP-OFDM QPSK	1@1	20.77	20.55	23.67	23.17	0.2076
7	15	35	507000	2535	CP-OFDM 16 QAM	1@1	20.55	20.45	23.51	23.01	0.2000
7	15	35	507000	2535	CP-OFDM 64 QAM	1@1	19.14	19.28	22.22	21.72	0.1486
7	15	35	501500	2552.5	CP-OFDM QPSK	1@1	20.91	20.81	23.87	23.37	0.2173
7	15	35	501500	2552.5	CP-OFDM 16 QAM	1@1	20.71	20.68	23.71	23.21	0.2092
7	15	35	501500	2552.5	CP-OFDM 64 QAM	1@1	19.28	19.56	22.43	21.93	0.1560
7	15	40	504000	2520	CP-OFDM QPSK	1@1	20.68	20.50	23.60	23.10	0.2042
7	15	40	504000	2520	CP-OFDM 16 QAM	1@1	20.69	20.51	23.61	23.11	0.2047
7	15	40	504000	2520	CP-OFDM 64 QAM	1@1	19.23	19.37	22.31	21.81	0.1517
7	15	40	507000	2535	CP-OFDM QPSK	1@1	20.88	20.35	23.63	23.13	0.2057
7	15	40	507000	2535	CP-OFDM 16 QAM	1@1	20.85	20.60	23.74	23.24	0.2107
7	15	40	507000	2535	CP-OFDM 64 QAM	1@1	18.96	18.99	21.99	21.49	0.1408
7	15	40	510000	2550	CP-OFDM QPSK	1@1	20.75	20.64	23.71	23.21	0.2092
7	15	40	510000	2550	CP-OFDM 16 QAM	1@1	20.64	20.61	23.64	23.14	0.2058
7	15	40	510000	2550	CP-OFDM 64 QAM	1@1	19.18	19.49	22.35	21.85	0.1530
7	15	50	505000	2525	CP-OFDM QPSK	135@67	21.66	21.67	24.68	24.18	0.2615
7	15	50	505000	2525	CP-OFDM QPSK	1@1	21.77	21.53	24.66	24.16	0.2607
7	15	50	505000	2525	CP-OFDM QPSK	1@268	20.88	20.54	23.72	23.22	0.2101
7	15	50	505000	2525	CP-OFDM 16 QAM	135@67	20.82	20.72	23.78	23.28	0.2128
7	15	50	505000	2525	CP-OFDM 16 QAM	1@1	20.72	20.56	23.65	23.15	0.2066
7	15	50	505000	2525	CP-OFDM 16 QAM	1@268	21.01	20.70	23.87	23.37	0.2172
7	15	50	505000	2525	CP-OFDM 64 QAM	135@67	19.49	19.40	22.46	21.96	0.1569
7	15	50	505000	2525	CP-OFDM 64 QAM	1@1	19.31	19.41	22.37	21.87	0.1538
7	15	50	505000	2525	CP-OFDM 64 QAM	1@268	19.53	19.50	22.53	22.03	0.1594
7	15	50	505000	2525	CP-OFDM 256 QAM	135@67	16.48	16.40	19.45	18.95	0.0785
7	15	50	505000	2525	CP-OFDM 256 QAM	1@1	16.41	16.05	19.24	18.74	0.0749
7	15	50	505000	2525	CP-OFDM 256 QAM	1@268	16.68	16.20	19.46	18.96	0.0786
7	15	50	507000	2535	CP-OFDM QPSK	135@67	20.77	20.69	23.74	23.24	0.2109
7	15	50	507000	2535	CP-OFDM QPSK	1@1	20.91	20.55	23.74	23.24	0.2111
7	15	50	507000	2535	CP-OFDM QPSK	1@268	20.82	20.59	23.72	23.22	0.2097
7	15	50	507000	2535	CP-OFDM 16 QAM	135@67	20.89	20.68	23.80	23.30	0.2136
7	15	50	507000	2535	CP-OFDM 16 QAM	1@1	21.11	20.83	23.98	23.48	0.2230
7	15	50	507000	2535	CP-OFDM 16 QAM	1@268	21.07	20.71	23.90	23.40	0.2190
7	15	50	507000	2535	CP-OFDM 64 QAM	135@67	19.59	19.37	22.49	21.99	0.1582
7	15	50	507000	2535	CP-OFDM 64 QAM	1@1	19.17	19.15	22.17	21.67	0.1469
7	15	50	507000	2535	CP-OFDM 64 QAM	1@268	19.16	19.00	22.09	21.59	0.1442
7	15	50	507000	2535	CP-OFDM 256 QAM	135@67	16.45	16.35	19.41	18.91	0.0778
7	15	50	507000	2535	CP-OFDM 256 QAM	1@1	16.39	16.10	19.26	18.76	0.0751
7	15	50	507000	2535	CP-OFDM 256 QAM	1@268	16.38	16.06	19.23	18.73	0.0747
7	15	50	509000	2545	CP-OFDM QPSK	135@67	20.78	20.57	23.69	23.19	0.2083



7	15	50	509000	2545	CP-OFDM QPSK	1@1	20.76	20.75	23.77	23.27	0.2121
7	15	50	509000	2545	CP-OFDM QPSK	1@268	20.83	20.47	23.66	23.16	0.2072
7	15	50	509000	2545	CP-OFDM 16 QAM	135@67	20.85	20.66	23.77	23.27	0.2121
7	15	50	509000	2545	CP-OFDM 16 QAM	1@1	20.73	20.68	23.72	23.22	0.2097
7	15	50	509000	2545	CP-OFDM 16 QAM	1@268	20.79	20.51	23.66	23.16	0.2071
7	15	50	509000	2545	CP-OFDM 64 QAM	135@67	19.53	19.30	22.43	21.93	0.1558
7	15	50	509000	2545	CP-OFDM 64 QAM	1@1	19.33	19.59	22.47	21.97	0.1575
7	15	50	509000	2545	CP-OFDM 64 QAM	1@268	19.27	19.35	22.32	21.82	0.1521
7	15	50	509000	2545	CP-OFDM 256 QAM	135@67	16.57	16.41	19.50	19.00	0.0795
7	15	50	509000	2545	CP-OFDM 256 QAM	1@1	16.42	16.28	19.36	18.86	0.0769
7	15	50	509000	2545	CP-OFDM 256 QAM	1@268	16.38	15.95	19.18	18.68	0.0738



5G NR n38A <Ant.4> (Main PA)

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
38	30	10	515000	2575	DFT-s-OFDM PI/2 BPSK	1@1	25.41	22.61	0.1824
38	30	10	515000	2575	DFT-s-OFDM QPSK	1@1	25.31	22.51	0.1782
38	30	10	515000	2575	DFT-s-OFDM 16 QAM	1@1	24.36	21.56	0.1432
38	30	10	519000	2595	DFT-s-OFDM PI/2 BPSK	1@1	25.29	22.49	0.1774
38	30	10	519000	2595	DFT-s-OFDM QPSK	1@1	25.27	22.47	0.1766
38	30	10	519000	2595	DFT-s-OFDM 16 QAM	1@1	24.28	21.48	0.1406
38	30	10	523000	2615	DFT-s-OFDM PI/2 BPSK	1@1	25.33	22.53	0.1791
38	30	10	523000	2615	DFT-s-OFDM QPSK	1@1	25.37	22.57	0.1807
38	30	10	523000	2615	DFT-s-OFDM 16 QAM	1@1	24.36	21.56	0.1432
38	30	15	515500	2577.5	DFT-s-OFDM PI/2 BPSK	1@1	24.23	21.43	0.1390
38	30	15	515500	2577.5	DFT-s-OFDM QPSK	1@1	24.11	21.31	0.1352
38	30	15	515500	2577.5	DFT-s-OFDM 16 QAM	1@1	23.06	20.26	0.1062
38	30	15	519000	2595	DFT-s-OFDM PI/2 BPSK	1@1	25.42	22.62	0.1828
38	30	15	519000	2595	DFT-s-OFDM QPSK	1@1	25.33	22.53	0.1791
38	30	15	519000	2595	DFT-s-OFDM 16 QAM	1@1	24.12	21.32	0.1355
38	30	15	522500	2612.5	DFT-s-OFDM PI/2 BPSK	1@1	25.36	22.56	0.1803
38	30	15	522500	2612.5	DFT-s-OFDM QPSK	1@1	25.16	22.36	0.1722
38	30	15	522500	2612.5	DFT-s-OFDM 16 QAM	1@1	24.03	21.23	0.1327
38	30	20	516000	2580	DFT-s-OFDM PI/2 BPSK	1@1	25.23	22.43	0.1750
38	30	20	516000	2580	DFT-s-OFDM QPSK	1@1	25.25	22.45	0.1758
38	30	20	516000	2580	DFT-s-OFDM 16 QAM	1@1	24.31	21.51	0.1416
38	30	20	519000	2595	DFT-s-OFDM PI/2 BPSK	1@1	25.20	22.40	0.1738
38	30	20	519000	2595	DFT-s-OFDM QPSK	1@1	25.27	22.47	0.1766
38	30	20	519000	2595	DFT-s-OFDM 16 QAM	1@1	24.28	21.48	0.1406
38	30	20	522000	2610	DFT-s-OFDM PI/2 BPSK	1@1	25.19	22.39	0.1734
38	30	20	522000	2610	DFT-s-OFDM QPSK	1@1	25.10	22.30	0.1698
38	30	20	522000	2610	DFT-s-OFDM 16 QAM	1@1	24.19	21.39	0.1377
38	30	25	516500	2582.5	DFT-s-OFDM PI/2 BPSK	1@1	25.55	22.75	0.1884
38	30	25	516500	2582.5	DFT-s-OFDM QPSK	1@1	25.56	22.76	0.1888
38	30	25	516500	2582.5	DFT-s-OFDM 16 QAM	1@1	24.60	21.80	0.1514
38	30	25	519000	2595	DFT-s-OFDM PI/2 BPSK	1@1	25.54	22.74	0.1879
38	30	25	519000	2595	DFT-s-OFDM QPSK	1@1	25.57	22.77	0.1892
38	30	25	519000	2595	DFT-s-OFDM 16 QAM	1@1	24.45	21.65	0.1462
38	30	25	521500	2607.5	DFT-s-OFDM PI/2 BPSK	1@1	25.63	22.83	0.1919
38	30	25	521500	2607.5	DFT-s-OFDM QPSK	1@1	25.41	22.61	0.1824
38	30	25	521500	2607.5	DFT-s-OFDM 16 QAM	1@1	24.16	21.36	0.1368
38	30	30	517000	2585	DFT-s-OFDM PI/2 BPSK	1@1	25.33	22.53	0.1791
38	30	30	517000	2585	DFT-s-OFDM QPSK	1@1	25.14	22.34	0.1714
38	30	30	517000	2585	DFT-s-OFDM 16 QAM	1@1	24.06	21.26	0.1337
38	30	30	519000	2595	DFT-s-OFDM PI/2 BPSK	1@1	25.39	22.59	0.1816
38	30	30	519000	2595	DFT-s-OFDM QPSK	1@1	25.11	22.31	0.1702
38	30	30	519000	2595	DFT-s-OFDM 16 QAM	1@1	24.08	21.28	0.1343
38	30	30	521000	2605	DFT-s-OFDM PI/2 BPSK	1@1	25.41	22.61	0.1824
38	30	30	521000	2605	DFT-s-OFDM QPSK	1@1	25.33	22.53	0.1791
38	30	30	521000	2605	DFT-s-OFDM 16 QAM	1@1	24.16	21.36	0.1368
38	30	40	518000	2590	DFT-s-OFDM PI/2 BPSK	50@25	25.45	22.65	0.1841
38	30	40	518000	2590	DFT-s-OFDM PI/2 BPSK	1@1	25.54	22.74	0.1879



38	30	40	518000	2590	DFT-s-OFDM PI/2 BPSK	1@104	25.23	22.43	0.1750
38	30	40	518000	2590	DFT-s-OFDM QPSK	50@25	25.36	22.56	0.1803
38	30	40	518000	2590	DFT-s-OFDM QPSK	1@1	25.56	22.76	0.1888
38	30	40	518000	2590	DFT-s-OFDM QPSK	1@104	25.27	22.47	0.1766
38	30	40	518000	2590	DFT-s-OFDM 16 QAM	50@25	24.36	21.56	0.1432
38	30	40	518000	2590	DFT-s-OFDM 16 QAM	1@1	24.60	21.80	0.1514
38	30	40	518000	2590	DFT-s-OFDM 16 QAM	1@104	24.25	21.45	0.1396
38	30	40	518000	2590	DFT-s-OFDM 64 QAM	50@25	22.79	19.99	0.0998
38	30	40	518000	2590	DFT-s-OFDM 64 QAM	1@1	22.87	20.07	0.1016
38	30	40	518000	2590	DFT-s-OFDM 64 QAM	1@104	22.66	19.86	0.0968
38	30	40	518000	2590	DFT-s-OFDM 256 QAM	50@25	20.76	17.96	0.0625
38	30	40	518000	2590	DFT-s-OFDM 256 QAM	1@1	20.59	17.79	0.0601
38	30	40	518000	2590	DFT-s-OFDM 256 QAM	1@104	20.44	17.64	0.0581
38	30	40	518000	2590	CP-OFDM QPSK	53@26	23.80	21.00	0.1259
38	30	40	518000	2590	CP-OFDM QPSK	1@1	23.98	21.18	0.1312
38	30	40	518000	2590	CP-OFDM QPSK	1@104	23.80	21.00	0.1259
38	30	40	519000	2595	DFT-s-OFDM PI/2 BPSK	50@25	25.31	22.51	0.1782
38	30	40	519000	2595	DFT-s-OFDM PI/2 BPSK	1@1	25.53	22.73	0.1875
38	30	40	519000	2595	DFT-s-OFDM PI/2 BPSK	1@104	25.28	22.48	0.1770
38	30	40	519000	2595	DFT-s-OFDM QPSK	50@25	25.39	22.59	0.1816
38	30	40	519000	2595	DFT-s-OFDM QPSK	1@1	25.47	22.67	0.1849
38	30	40	519000	2595	DFT-s-OFDM QPSK	1@104	25.29	22.49	0.1774
38	30	40	519000	2595	DFT-s-OFDM 16 QAM	50@25	24.30	21.50	0.1413
38	30	40	519000	2595	DFT-s-OFDM 16 QAM	1@1	24.53	21.73	0.1489
38	30	40	519000	2595	DFT-s-OFDM 16 QAM	1@104	24.29	21.49	0.1409
38	30	40	519000	2595	DFT-s-OFDM 64 QAM	50@25	22.78	19.98	0.0995
38	30	40	519000	2595	DFT-s-OFDM 64 QAM	1@1	22.91	20.11	0.1026
38	30	40	519000	2595	DFT-s-OFDM 64 QAM	1@104	22.72	19.92	0.0982
38	30	40	519000	2595	DFT-s-OFDM 256 QAM	50@25	20.76	17.96	0.0625
38	30	40	519000	2595	DFT-s-OFDM 256 QAM	1@1	20.59	17.79	0.0601
38	30	40	519000	2595	DFT-s-OFDM 256 QAM	1@104	20.45	17.65	0.0582
38	30	40	519000	2595	CP-OFDM QPSK	53@26	23.82	21.02	0.1265
38	30	40	519000	2595	CP-OFDM QPSK	1@1	23.98	21.18	0.1312
38	30	40	519000	2595	CP-OFDM QPSK	1@104	23.81	21.01	0.1262
38	30	40	520000	2600	DFT-s-OFDM PI/2 BPSK	50@25	25.31	22.51	0.1782
38	30	40	520000	2600	DFT-s-OFDM PI/2 BPSK	1@1	25.36	22.56	0.1803
38	30	40	520000	2600	DFT-s-OFDM PI/2 BPSK	1@104	25.31	22.51	0.1782
38	30	40	520000	2600	DFT-s-OFDM QPSK	50@25	25.34	22.54	0.1795
38	30	40	520000	2600	DFT-s-OFDM QPSK	1@1	25.42	22.62	0.1828
38	30	40	520000	2600	DFT-s-OFDM QPSK	1@104	25.29	22.49	0.1774
38	30	40	520000	2600	DFT-s-OFDM 16 QAM	50@25	24.27	21.47	0.1403
38	30	40	520000	2600	DFT-s-OFDM 16 QAM	1@1	24.45	21.65	0.1462
38	30	40	520000	2600	DFT-s-OFDM 16 QAM	1@104	24.28	21.48	0.1406
38	30	40	520000	2600	DFT-s-OFDM 64 QAM	50@25	22.79	19.99	0.0998
38	30	40	520000	2600	DFT-s-OFDM 64 QAM	1@1	22.85	20.05	0.1012
38	30	40	520000	2600	DFT-s-OFDM 64 QAM	1@104	22.74	19.94	0.0986
38	30	40	520000	2600	DFT-s-OFDM 256 QAM	50@25	20.72	17.92	0.0619
38	30	40	520000	2600	DFT-s-OFDM 256 QAM	1@1	20.59	17.79	0.0601
38	30	40	520000	2600	DFT-s-OFDM 256 QAM	1@104	20.45	17.65	0.0582
38	30	40	520000	2600	CP-OFDM QPSK	53@26	23.88	21.08	0.1282



38	30	40	520000	2600	CP-OFDM QPSK	1@1	23.85	21.05	0.1274
38	30	40	520000	2600	CP-OFDM QPSK	1@104	23.84	21.04	0.1271

ENDC 4A_n38A <Ant.5+3> (Other PA)

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
38	30	10	515000	2575	DFT-s-OFDM PI/2 BPSK	1@1	23.98	23.48	0.2228
38	30	10	515000	2575	DFT-s-OFDM QPSK	1@1	23.96	23.46	0.2218
38	30	10	515000	2575	DFT-s-OFDM 16 QAM	1@1	22.94	22.44	0.1754
38	30	10	519000	2595	DFT-s-OFDM PI/2 BPSK	1@1	24	23.5	0.2239
38	30	10	519000	2595	DFT-s-OFDM QPSK	1@1	24.1	23.6	0.2291
38	30	10	519000	2595	DFT-s-OFDM 16 QAM	1@1	23.02	22.52	0.1786
38	30	10	523000	2615	DFT-s-OFDM PI/2 BPSK	1@1	24.11	23.61	0.2296
38	30	10	523000	2615	DFT-s-OFDM QPSK	1@1	24.1	23.6	0.2291
38	30	10	523000	2615	DFT-s-OFDM 16 QAM	1@1	23.03	22.53	0.1791
38	30	15	515500	2577.5	DFT-s-OFDM PI/2 BPSK	1@1	24.13	23.63	0.2307
38	30	15	515500	2577.5	DFT-s-OFDM QPSK	1@1	24.21	23.71	0.2350
38	30	15	515500	2577.5	DFT-s-OFDM 16 QAM	1@1	23.08	22.58	0.1811
38	30	15	519000	2595	DFT-s-OFDM PI/2 BPSK	1@1	24.13	23.63	0.2307
38	30	15	519000	2595	DFT-s-OFDM QPSK	1@1	24.07	23.57	0.2275
38	30	15	519000	2595	DFT-s-OFDM 16 QAM	1@1	23.12	22.62	0.1828
38	30	15	522500	2612.5	DFT-s-OFDM PI/2 BPSK	1@1	24.27	23.77	0.2382
38	30	15	522500	2612.5	DFT-s-OFDM QPSK	1@1	24.34	23.84	0.2421
38	30	15	522500	2612.5	DFT-s-OFDM 16 QAM	1@1	23.26	22.76	0.1888
38	30	20	516000	2580	DFT-s-OFDM PI/2 BPSK	1@1	24.13	23.63	0.2307
38	30	20	516000	2580	DFT-s-OFDM QPSK	1@1	24.2	23.7	0.2344
38	30	20	516000	2580	DFT-s-OFDM 16 QAM	1@1	23.08	22.58	0.1811
38	30	20	519000	2595	DFT-s-OFDM PI/2 BPSK	1@1	24.07	23.57	0.2275
38	30	20	519000	2595	DFT-s-OFDM QPSK	1@1	24.13	23.63	0.2307
38	30	20	519000	2595	DFT-s-OFDM 16 QAM	1@1	23.04	22.54	0.1795
38	30	20	522000	2610	DFT-s-OFDM PI/2 BPSK	1@1	24.18	23.68	0.2333
38	30	20	522000	2610	DFT-s-OFDM QPSK	1@1	24.28	23.78	0.2388
38	30	20	522000	2610	DFT-s-OFDM 16 QAM	1@1	23.24	22.74	0.1879
38	30	25	516500	2582.5	DFT-s-OFDM PI/2 BPSK	1@1	24.36	23.86	0.2432
38	30	25	516500	2582.5	DFT-s-OFDM QPSK	1@1	24.45	23.95	0.2483
38	30	25	516500	2582.5	DFT-s-OFDM 16 QAM	1@1	23.24	22.74	0.1879
38	30	25	519000	2595	DFT-s-OFDM PI/2 BPSK	1@1	24.28	23.78	0.2388
38	30	25	519000	2595	DFT-s-OFDM QPSK	1@1	24.42	23.92	0.2466
38	30	25	519000	2595	DFT-s-OFDM 16 QAM	1@1	23.29	22.79	0.1901
38	30	25	521500	2607.5	DFT-s-OFDM PI/2 BPSK	1@1	24.37	23.87	0.2438
38	30	25	521500	2607.5	DFT-s-OFDM QPSK	1@1	24.35	23.85	0.2427
38	30	25	521500	2607.5	DFT-s-OFDM 16 QAM	1@1	23.28	22.78	0.1897
38	30	30	517000	2585	DFT-s-OFDM PI/2 BPSK	1@1	24.25	23.75	0.2371
38	30	30	517000	2585	DFT-s-OFDM QPSK	1@1	24.33	23.83	0.2415
38	30	30	517000	2585	DFT-s-OFDM 16 QAM	1@1	23.2	22.7	0.1862
38	30	30	519000	2595	DFT-s-OFDM PI/2 BPSK	1@1	24.32	23.82	0.2410
38	30	30	519000	2595	DFT-s-OFDM QPSK	1@1	24.3	23.8	0.2399
38	30	30	519000	2595	DFT-s-OFDM 16 QAM	1@1	23.14	22.64	0.1837
38	30	30	521000	2605	DFT-s-OFDM PI/2 BPSK	1@1	24.23	23.73	0.2360



38	30	30	521000	2605	DFT-s-OFDM QPSK	1@1	24.4	23.9	0.2455
38	30	30	521000	2605	DFT-s-OFDM 16 QAM	1@1	23.35	22.85	0.1928
38	30	40	518000	2590	DFT-s-OFDM PI/2 BPSK	50@25	24.24	23.74	0.2366
38	30	40	518000	2590	DFT-s-OFDM PI/2 BPSK	1@1	24.26	23.76	0.2377
38	30	40	518000	2590	DFT-s-OFDM PI/2 BPSK	1@104	24.1	23.6	0.2291
38	30	40	518000	2590	DFT-s-OFDM QPSK	50@25	24.15	23.65	0.2317
38	30	40	518000	2590	DFT-s-OFDM QPSK	1@1	24.21	23.71	0.2350
38	30	40	518000	2590	DFT-s-OFDM QPSK	1@104	24.13	23.63	0.2307
38	30	40	518000	2590	DFT-s-OFDM 16 QAM	50@25	23.14	22.64	0.1837
38	30	40	518000	2590	DFT-s-OFDM 16 QAM	1@1	23.14	22.64	0.1837
38	30	40	518000	2590	DFT-s-OFDM 16 QAM	1@104	23.03	22.53	0.1791
38	30	40	518000	2590	DFT-s-OFDM 64 QAM	50@25	21.66	21.16	0.1306
38	30	40	518000	2590	DFT-s-OFDM 64 QAM	1@1	21.58	21.08	0.1282
38	30	40	518000	2590	DFT-s-OFDM 64 QAM	1@104	21.46	20.96	0.1247
38	30	40	518000	2590	DFT-s-OFDM 256 QAM	50@25	19.63	19.13	0.0818
38	30	40	518000	2590	DFT-s-OFDM 256 QAM	1@1	19.46	18.96	0.0787
38	30	40	518000	2590	DFT-s-OFDM 256 QAM	1@104	19.43	18.93	0.0782
38	30	40	518000	2590	CP-OFDM QPSK	53@26	22.71	22.21	0.1663
38	30	40	518000	2590	CP-OFDM QPSK	1@1	22.68	22.18	0.1652
38	30	40	518000	2590	CP-OFDM QPSK	1@104	22.69	22.19	0.1656
38	30	40	519000	2595	DFT-s-OFDM PI/2 BPSK	1@1	24.08	23.58	0.2280
38	30	40	519000	2595	DFT-s-OFDM PI/2 BPSK	1@104	23.98	23.48	0.2228
38	30	40	519000	2595	DFT-s-OFDM QPSK	50@25	24.17	23.67	0.2328
38	30	40	519000	2595	DFT-s-OFDM QPSK	1@1	24.14	23.64	0.2312
38	30	40	519000	2595	DFT-s-OFDM QPSK	1@104	23.7	23.2	0.2089
38	30	40	519000	2595	DFT-s-OFDM 16 QAM	50@25	23.06	22.56	0.1803
38	30	40	519000	2595	DFT-s-OFDM 16 QAM	1@1	23.14	22.64	0.1837
38	30	40	519000	2595	DFT-s-OFDM 16 QAM	1@104	22.69	22.19	0.1656
38	30	40	519000	2595	DFT-s-OFDM 64 QAM	50@25	21.59	21.09	0.1285
38	30	40	519000	2595	DFT-s-OFDM 64 QAM	1@1	21.56	21.06	0.1276
38	30	40	519000	2595	DFT-s-OFDM 64 QAM	1@104	21.35	20.85	0.1216
38	30	40	519000	2595	DFT-s-OFDM 256 QAM	50@25	19.55	19.05	0.0804
38	30	40	519000	2595	DFT-s-OFDM 256 QAM	1@1	19.45	18.95	0.0785
38	30	40	519000	2595	DFT-s-OFDM 256 QAM	1@104	19.31	18.81	0.0760
38	30	40	519000	2595	CP-OFDM QPSK	53@26	22.53	22.03	0.1596
38	30	40	519000	2595	CP-OFDM QPSK	1@1	22.82	22.32	0.1706
38	30	40	519000	2595	CP-OFDM QPSK	1@104	22.39	21.89	0.1545
38	30	40	520000	2600	DFT-s-OFDM PI/2 BPSK	50@25	24.35	23.85	0.2427
38	30	40	520000	2600	DFT-s-OFDM PI/2 BPSK	1@1	24.2	23.7	0.2344
38	30	40	520000	2600	DFT-s-OFDM PI/2 BPSK	1@104	24.08	23.58	0.2280
38	30	40	520000	2600	DFT-s-OFDM QPSK	50@25	24.28	23.78	0.2388
38	30	40	520000	2600	DFT-s-OFDM QPSK	1@1	24.29	23.79	0.2393
38	30	40	520000	2600	DFT-s-OFDM QPSK	1@104	23.55	23.05	0.2018
38	30	40	520000	2600	DFT-s-OFDM 16 QAM	50@25	23.18	22.68	0.1854
38	30	40	520000	2600	DFT-s-OFDM 16 QAM	1@1	23.15	22.65	0.1841
38	30	40	520000	2600	DFT-s-OFDM 16 QAM	1@104	22.66	22.16	0.1644
38	30	40	520000	2600	DFT-s-OFDM 64 QAM	50@25	21.7	21.2	0.1318
38	30	40	520000	2600	DFT-s-OFDM 64 QAM	1@1	21.67	21.17	0.1309
38	30	40	520000	2600	DFT-s-OFDM 64 QAM	1@104	21.22	20.72	0.1180
38	30	40	520000	2600	DFT-s-OFDM 256 QAM	50@25	19.69	19.19	0.0830



38	30	40	520000	2600	DFT-s-OFDM 256 QAM	1@1	19.54	19.04	0.0802
38	30	40	520000	2600	DFT-s-OFDM 256 QAM	1@104	19.43	18.93	0.0782
38	30	40	520000	2600	CP-OFDM QPSK	53@26	22.74	22.24	0.1675
38	30	40	520000	2600	CP-OFDM QPSK	1@1	22.77	22.27	0.1687
38	30	40	520000	2600	CP-OFDM QPSK	1@104	22.19	21.69	0.1476

5G NR n41 <Ant.4> (Main PA)

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
41	30	10	500202	2501.01	DFT-s-OFDM PI/2 BPSK	1@1	26.85	24.05	0.2541
41	30	10	500202	2501.01	DFT-s-OFDM QPSK	1@1	25.75	22.95	0.1972
41	30	10	500202	2501.01	DFT-s-OFDM 16 QAM	1@1	24.81	22.01	0.1589
41	30	10	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	26.87	24.07	0.2553
41	30	10	518598	2592.99	DFT-s-OFDM QPSK	1@1	26.94	24.14	0.2594
41	30	10	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	25.85	23.05	0.2018
41	30	10	537000	2685	DFT-s-OFDM PI/2 BPSK	1@1	26.67	23.87	0.2438
41	30	10	537000	2685	DFT-s-OFDM QPSK	1@1	26.75	23.95	0.2483
41	30	10	537000	2685	DFT-s-OFDM 16 QAM	1@1	25.67	22.87	0.1936
41	30	15	500700	2503.5	DFT-s-OFDM PI/2 BPSK	1@1	26.83	24.03	0.2529
41	30	15	500700	2503.5	DFT-s-OFDM QPSK	1@1	25.98	23.18	0.2080
41	30	15	500700	2503.5	DFT-s-OFDM 16 QAM	1@1	24.97	22.17	0.1648
41	30	15	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	26.97	24.17	0.2612
41	30	15	518598	2592.99	DFT-s-OFDM QPSK	1@1	26.93	24.13	0.2588
41	30	15	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	25.86	23.06	0.2023
41	30	15	536496	2682.48	DFT-s-OFDM PI/2 BPSK	1@1	26.56	23.76	0.2377
41	30	15	536496	2682.48	DFT-s-OFDM QPSK	1@1	26.56	23.76	0.2377
41	30	15	536496	2682.48	DFT-s-OFDM 16 QAM	1@1	25.50	22.70	0.1862
41	30	20	501204	2506.02	DFT-s-OFDM PI/2 BPSK	1@1	26.79	23.99	0.2506
41	30	20	501204	2506.02	DFT-s-OFDM QPSK	1@1	26.08	23.28	0.2128
41	30	20	501204	2506.02	DFT-s-OFDM 16 QAM	1@1	25.12	22.32	0.1706
41	30	20	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	26.81	24.01	0.2518
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	1@1	26.89	24.09	0.2564
41	30	20	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	25.83	23.03	0.2009
41	30	20	535998	2679.99	DFT-s-OFDM PI/2 BPSK	1@1	26.49	23.69	0.2339
41	30	20	535998	2679.99	DFT-s-OFDM QPSK	1@1	26.58	23.78	0.2388
41	30	20	535998	2679.99	DFT-s-OFDM 16 QAM	1@1	25.59	22.79	0.1901
41	30	25	501702	2508.51	DFT-s-OFDM PI/2 BPSK	1@1	26.86	24.06	0.2547
41	30	25	501702	2508.51	DFT-s-OFDM QPSK	1@1	26.13	23.33	0.2153
41	30	25	501702	2508.51	DFT-s-OFDM 16 QAM	1@1	25.11	22.31	0.1702
41	30	25	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	26.95	24.15	0.2600
41	30	25	518598	2592.99	DFT-s-OFDM QPSK	1@1	26.91	24.11	0.2576
41	30	25	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	26.05	23.25	0.2113
41	30	25	535500	2677.5	DFT-s-OFDM PI/2 BPSK	1@1	26.79	23.99	0.2506
41	30	25	535500	2677.5	DFT-s-OFDM QPSK	1@1	26.79	23.99	0.2506
41	30	25	535500	2677.5	DFT-s-OFDM 16 QAM	1@1	25.85	23.05	0.2018
41	30	30	502200	2511	DFT-s-OFDM PI/2 BPSK	1@1	26.84	24.04	0.2535
41	30	30	502200	2511	DFT-s-OFDM QPSK	1@1	26.19	23.39	0.2183
41	30	30	502200	2511	DFT-s-OFDM 16 QAM	1@1	25.25	22.45	0.1758
41	30	30	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	26.95	24.15	0.2600



41	30	30	518598	2592.99	DFT-s-OFDM QPSK	1@1	26.94	24.14	0.2594
41	30	30	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	26.07	23.27	0.2123
41	30	30	534996	2674.98	DFT-s-OFDM PI/2 BPSK	1@1	26.70	23.90	0.2455
41	30	30	534996	2674.98	DFT-s-OFDM QPSK	1@1	26.68	23.88	0.2443
41	30	30	534996	2674.98	DFT-s-OFDM 16 QAM	1@1	25.72	22.92	0.1959
41	30	35	502704	2513.52	DFT-s-OFDM PI/2 BPSK	1@1	26.74	23.94	0.2477
41	30	35	502704	2513.52	DFT-s-OFDM QPSK	1@1	26.07	23.27	0.2123
41	30	35	502704	2513.52	DFT-s-OFDM 16 QAM	1@1	25.11	22.31	0.1702
41	30	35	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	26.91	24.11	0.2576
41	30	35	518598	2592.99	DFT-s-OFDM QPSK	1@1	26.92	24.12	0.2582
41	30	35	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	26.12	23.32	0.2148
41	30	35	534498	2672.49	DFT-s-OFDM PI/2 BPSK	1@1	26.53	23.73	0.2360
41	30	35	534498	2672.49	DFT-s-OFDM QPSK	1@1	26.62	23.82	0.2410
41	30	35	534498	2672.49	DFT-s-OFDM 16 QAM	1@1	25.64	22.84	0.1923
41	30	40	503202	2516.01	DFT-s-OFDM PI/2 BPSK	1@1	26.83	24.03	0.2529
41	30	40	503202	2516.01	DFT-s-OFDM QPSK	1@1	26.09	23.29	0.2133
41	30	40	503202	2516.01	DFT-s-OFDM 16 QAM	1@1	25.06	22.26	0.1683
41	30	40	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	26.93	24.13	0.2588
41	30	40	518598	2592.99	DFT-s-OFDM QPSK	1@1	26.92	24.12	0.2582
41	30	40	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	25.98	23.18	0.2080
41	30	40	534000	2670	DFT-s-OFDM PI/2 BPSK	1@1	26.47	23.67	0.2328
41	30	40	534000	2670	DFT-s-OFDM QPSK	1@1	26.54	23.74	0.2366
41	30	40	534000	2670	DFT-s-OFDM 16 QAM	1@1	25.47	22.67	0.1849
41	30	45	503700	2518.5	DFT-s-OFDM PI/2 BPSK	1@1	26.89	24.09	0.2564
41	30	45	503700	2518.5	DFT-s-OFDM QPSK	1@1	26.19	23.39	0.2183
41	30	45	503700	2518.5	DFT-s-OFDM 16 QAM	1@1	25.19	22.39	0.1734
41	30	45	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	26.95	24.15	0.2600
41	30	45	518598	2592.99	DFT-s-OFDM QPSK	1@1	26.93	24.13	0.2588
41	30	45	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	26.13	23.33	0.2153
41	30	45	533496	2667.48	DFT-s-OFDM PI/2 BPSK	1@1	26.72	23.92	0.2466
41	30	45	533496	2667.48	DFT-s-OFDM QPSK	1@1	26.84	24.04	0.2535
41	30	45	533496	2667.48	DFT-s-OFDM 16 QAM	1@1	25.80	23.00	0.1995
41	30	50	504204	2521.02	DFT-s-OFDM PI/2 BPSK	1@1	26.93	24.13	0.2588
41	30	50	504204	2521.02	DFT-s-OFDM QPSK	1@1	26.19	23.39	0.2183
41	30	50	504204	2521.02	DFT-s-OFDM 16 QAM	1@1	25.20	22.40	0.1738
41	30	50	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	26.98	24.18	0.2618
41	30	50	518598	2592.99	DFT-s-OFDM QPSK	1@1	26.92	24.12	0.2582
41	30	50	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	26.06	23.26	0.2118
41	30	50	532998	2664.99	DFT-s-OFDM PI/2 BPSK	1@1	26.77	23.97	0.2495
41	30	50	532998	2664.99	DFT-s-OFDM QPSK	1@1	26.79	23.99	0.2506
41	30	50	532998	2664.99	DFT-s-OFDM 16 QAM	1@1	25.64	22.84	0.1923
41	30	60	505200	2526	DFT-s-OFDM PI/2 BPSK	1@1	26.86	24.06	0.2547
41	30	60	505200	2526	DFT-s-OFDM QPSK	1@1	26.72	23.92	0.2466
41	30	60	505200	2526	DFT-s-OFDM 16 QAM	1@1	25.73	22.93	0.1963
41	30	60	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	26.85	24.05	0.2541
41	30	60	518598	2592.99	DFT-s-OFDM QPSK	1@1	26.92	24.12	0.2582
41	30	60	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	25.92	23.12	0.2051
41	30	60	531996	2659.98	DFT-s-OFDM PI/2 BPSK	1@1	26.66	23.86	0.2432
41	30	60	531996	2659.98	DFT-s-OFDM QPSK	1@1	26.77	23.97	0.2495
41	30	60	531996	2659.98	DFT-s-OFDM 16 QAM	1@1	25.88	23.08	0.2032



41	30	70	505200	2531.01	DFT-s-OFDM PI/2 BPSK	1@1	26.93	24.13	0.2588
41	30	70	505200	2531.01	DFT-s-OFDM QPSK	1@1	26.85	24.05	0.2541
41	30	70	505200	2531.01	DFT-s-OFDM 16 QAM	1@1	25.86	23.06	0.2023
41	30	70	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	26.92	24.12	0.2582
41	30	70	518598	2592.99	DFT-s-OFDM QPSK	1@1	26.91	24.11	0.2576
41	30	70	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	26.13	23.33	0.2153
41	30	70	531996	2655	DFT-s-OFDM PI/2 BPSK	1@1	26.92	24.12	0.2582
41	30	70	531996	2655	DFT-s-OFDM QPSK	1@1	26.89	24.09	0.2564
41	30	70	531996	2655	DFT-s-OFDM 16 QAM	1@1	26.19	23.39	0.2183
41	30	80	507204	2536.02	DFT-s-OFDM PI/2 BPSK	1@1	26.98	24.18	0.2618
41	30	80	507204	2536.02	DFT-s-OFDM QPSK	1@1	26.81	24.01	0.2518
41	30	80	507204	2536.02	DFT-s-OFDM 16 QAM	1@1	25.74	22.94	0.1968
41	30	80	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	26.87	24.07	0.2553
41	30	80	518598	2592.99	DFT-s-OFDM QPSK	1@1	26.91	24.11	0.2576
41	30	80	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	25.89	23.09	0.2037
41	30	80	529998	2649.99	DFT-s-OFDM PI/2 BPSK	1@1	26.95	24.15	0.2600
41	30	80	529998	2649.99	DFT-s-OFDM QPSK	1@1	26.92	24.12	0.2582
41	30	80	529998	2649.99	DFT-s-OFDM 16 QAM	1@1	26.15	23.35	0.2163
41	30	90	508200	2541	DFT-s-OFDM PI/2 BPSK	1@1	26.94	24.14	0.2594
41	30	90	508200	2541	DFT-s-OFDM QPSK	1@1	26.86	24.06	0.2547
41	30	90	508200	2541	DFT-s-OFDM 16 QAM	1@1	25.92	23.12	0.2051
41	30	90	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	26.96	24.16	0.2606
41	30	90	518598	2592.99	DFT-s-OFDM QPSK	1@1	26.97	24.17	0.2612
41	30	90	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	26.36	23.56	0.2270
41	30	90	528996	2644.98	DFT-s-OFDM PI/2 BPSK	1@1	26.95	24.15	0.2600
41	30	90	528996	2644.98	DFT-s-OFDM QPSK	1@1	26.93	24.13	0.2588
41	30	90	528996	2644.98	DFT-s-OFDM 16 QAM	1@1	26.03	23.23	0.2104
41	30	100	509202	2546.01	DFT-s-OFDM PI/2 BPSK	135@67	26.91	24.11	0.2576
41	30	100	509202	2546.01	DFT-s-OFDM PI/2 BPSK	1@1	26.98	24.18	0.2618
41	30	100	509202	2546.01	DFT-s-OFDM PI/2 BPSK	1@271	26.93	24.13	0.2588
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	135@67	26.89	24.09	0.2564
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	1@1	26.92	24.12	0.2582
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	1@271	26.93	24.13	0.2588
41	30	100	509202	2546.01	DFT-s-OFDM 16 QAM	135@67	26.37	23.57	0.2275
41	30	100	509202	2546.01	DFT-s-OFDM 16 QAM	1@1	25.86	23.06	0.2023
41	30	100	509202	2546.01	DFT-s-OFDM 16 QAM	1@271	26.31	23.51	0.2244
41	30	100	509202	2546.01	DFT-s-OFDM 64 QAM	135@67	24.92	22.12	0.1629
41	30	100	509202	2546.01	DFT-s-OFDM 64 QAM	1@1	24.34	21.54	0.1426
41	30	100	509202	2546.01	DFT-s-OFDM 64 QAM	1@271	24.66	21.86	0.1535
41	30	100	509202	2546.01	DFT-s-OFDM 256 QAM	135@67	22.88	20.08	0.1019
41	30	100	509202	2546.01	DFT-s-OFDM 256 QAM	1@1	22.74	19.94	0.0986
41	30	100	509202	2546.01	DFT-s-OFDM 256 QAM	1@271	22.75	19.95	0.0989
41	30	100	509202	2546.01	CP-OFDM QPSK	137@68	25.82	23.02	0.2004
41	30	100	509202	2546.01	CP-OFDM QPSK	1@1	25.39	22.59	0.1816
41	30	100	509202	2546.01	CP-OFDM QPSK	1@271	25.92	23.12	0.2051
41	30	100	518598	2592.99	DFT-s-OFDM PI/2 BPSK	135@67	26.92	24.12	0.2582
41	30	100	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	26.89	24.09	0.2564
41	30	100	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@271	26.95	24.15	0.2600
41	30	100	518598	2592.99	DFT-s-OFDM QPSK	135@67	26.93	24.13	0.2588
41	30	100	518598	2592.99	DFT-s-OFDM QPSK	1@1	26.91	24.11	0.2576



41	30	100	518598	2592.99	DFT-s-OFDM QPSK	1@271	26.95	24.15	0.2600
41	30	100	518598	2592.99	DFT-s-OFDM 16 QAM	135@67	26.27	23.47	0.2223
41	30	100	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	26.40	23.60	0.2291
41	30	100	518598	2592.99	DFT-s-OFDM 16 QAM	1@271	26.18	23.38	0.2178
41	30	100	518598	2592.99	DFT-s-OFDM 64 QAM	135@67	24.81	22.01	0.1589
41	30	100	518598	2592.99	DFT-s-OFDM 64 QAM	1@1	24.79	21.99	0.1581
41	30	100	518598	2592.99	DFT-s-OFDM 64 QAM	1@271	24.56	21.76	0.1500
41	30	100	518598	2592.99	DFT-s-OFDM 256 QAM	135@67	22.79	19.99	0.0998
41	30	100	518598	2592.99	DFT-s-OFDM 256 QAM	1@1	22.78	19.98	0.0995
41	30	100	518598	2592.99	DFT-s-OFDM 256 QAM	1@271	22.65	19.85	0.0966
41	30	100	518598	2592.99	CP-OFDM QPSK	137@68	25.72	22.92	0.1959
41	30	100	518598	2592.99	CP-OFDM QPSK	1@1	25.98	23.18	0.2080
41	30	100	518598	2592.99	CP-OFDM QPSK	1@271	25.91	23.11	0.2046
41	30	100	528000	2640	DFT-s-OFDM PI/2 BPSK	135@67	26.79	23.99	0.2506
41	30	100	528000	2640	DFT-s-OFDM PI/2 BPSK	1@1	26.97	24.17	0.2612
41	30	100	528000	2640	DFT-s-OFDM PI/2 BPSK	1@271	26.92	24.12	0.2582
41	30	100	528000	2640	DFT-s-OFDM QPSK	135@67	26.94	24.14	0.2594
41	30	100	528000	2640	DFT-s-OFDM QPSK	1@1	26.87	24.07	0.2553
41	30	100	528000	2640	DFT-s-OFDM QPSK	1@271	26.98	24.18	0.2618
41	30	100	528000	2640	DFT-s-OFDM 16 QAM	135@67	26.15	23.35	0.2163
41	30	100	528000	2640	DFT-s-OFDM 16 QAM	1@1	26.08	23.28	0.2128
41	30	100	528000	2640	DFT-s-OFDM 16 QAM	1@271	26.27	23.47	0.2223
41	30	100	528000	2640	DFT-s-OFDM 64 QAM	135@67	24.54	21.74	0.1493
41	30	100	528000	2640	DFT-s-OFDM 64 QAM	1@1	24.47	21.67	0.1469
41	30	100	528000	2640	DFT-s-OFDM 64 QAM	1@271	24.48	21.68	0.1472
41	30	100	528000	2640	DFT-s-OFDM 256 QAM	135@67	22.54	19.74	0.0942
41	30	100	528000	2640	DFT-s-OFDM 256 QAM	1@1	22.60	19.80	0.0955
41	30	100	528000	2640	DFT-s-OFDM 256 QAM	1@271	22.76	19.96	0.0991
41	30	100	528000	2640	CP-OFDM QPSK	137@68	25.48	22.68	0.1854
41	30	100	528000	2640	CP-OFDM QPSK	1@1	25.87	23.07	0.2028
41	30	100	528000	2640	CP-OFDM QPSK	1@271	25.92	23.12	0.2051



ENDC 66A_n41A <Ant.4+3> (Other PA)

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
41	30	10	500202	2501.01	DFT-s-OFDM PI/2 BPSK	1@1	24.63	24.13	0.2588
41	30	10	500202	2501.01	DFT-s-OFDM QPSK	1@1	24.22	23.72	0.2355
41	30	10	500202	2501.01	DFT-s-OFDM 16 QAM	1@1	23.36	22.86	0.1932
41	30	10	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	24.52	24.02	0.2523
41	30	10	518598	2592.99	DFT-s-OFDM QPSK	1@1	24.62	24.12	0.2582
41	30	10	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	23.98	23.48	0.2228
41	30	10	537000	2685	DFT-s-OFDM PI/2 BPSK	1@1	24.26	23.76	0.2377
41	30	10	537000	2685	DFT-s-OFDM QPSK	1@1	24.33	23.83	0.2415
41	30	10	537000	2685	DFT-s-OFDM 16 QAM	1@1	24.16	23.66	0.2323
41	30	15	500700	2503.5	DFT-s-OFDM PI/2 BPSK	1@1	24.53	24.53	0.2838
41	30	15	500700	2503.5	DFT-s-OFDM QPSK	1@1	24.29	23.79	0.2393
41	30	15	500700	2503.5	DFT-s-OFDM 16 QAM	1@1	23.37	22.87	0.1936
41	30	15	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	24.38	23.88	0.2443
41	30	15	518598	2592.99	DFT-s-OFDM QPSK	1@1	24.35	23.85	0.2427
41	30	15	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	23.45	22.95	0.1972
41	30	15	536496	2682.48	DFT-s-OFDM PI/2 BPSK	1@1	23.64	23.14	0.2061
41	30	15	536496	2682.48	DFT-s-OFDM QPSK	1@1	22.67	22.17	0.1648
41	30	15	536496	2682.48	DFT-s-OFDM 16 QAM	1@1	21.75	21.25	0.1334
41	30	20	501204	2506.02	DFT-s-OFDM PI/2 BPSK	1@1	24.42	23.92	0.2466
41	30	20	501204	2506.02	DFT-s-OFDM QPSK	1@1	24.48	23.98	0.2500
41	30	20	501204	2506.02	DFT-s-OFDM 16 QAM	1@1	23.38	22.88	0.1941
41	30	20	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	24.24	23.74	0.2366
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	1@1	24.42	23.92	0.2466
41	30	20	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	23.35	22.85	0.1928
41	30	20	535998	2679.99	DFT-s-OFDM PI/2 BPSK	1@1	24.05	23.55	0.2265
41	30	20	535998	2679.99	DFT-s-OFDM QPSK	1@1	23.05	22.55	0.1799
41	30	20	535998	2679.99	DFT-s-OFDM 16 QAM	1@1	22.19	21.69	0.1476
41	30	25	501702	2508.51	DFT-s-OFDM PI/2 BPSK	1@1	24.41	23.91	0.2460
41	30	25	501702	2508.51	DFT-s-OFDM QPSK	1@1	24.75	24.25	0.2661
41	30	25	501702	2508.51	DFT-s-OFDM 16 QAM	1@1	23.70	23.20	0.2089
41	30	25	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	24.53	24.03	0.2529
41	30	25	518598	2592.99	DFT-s-OFDM QPSK	1@1	24.59	24.09	0.2564
41	30	25	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	23.62	23.12	0.2051
41	30	25	535500	2677.5	DFT-s-OFDM PI/2 BPSK	1@1	24.31	23.81	0.2404
41	30	25	535500	2677.5	DFT-s-OFDM QPSK	1@1	23.64	23.14	0.2061
41	30	25	535500	2677.5	DFT-s-OFDM 16 QAM	1@1	22.71	22.21	0.1663
41	30	30	502200	2511	DFT-s-OFDM PI/2 BPSK	1@1	24.60	24.10	0.2570
41	30	30	502200	2511	DFT-s-OFDM QPSK	1@1	24.74	24.24	0.2655
41	30	30	502200	2511	DFT-s-OFDM 16 QAM	1@1	23.68	23.18	0.2080
41	30	30	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	24.50	24.00	0.2512
41	30	30	518598	2592.99	DFT-s-OFDM QPSK	1@1	24.67	24.17	0.2612
41	30	30	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	23.66	23.16	0.2070
41	30	30	534996	2674.98	DFT-s-OFDM PI/2 BPSK	1@1	24.27	23.77	0.2382
41	30	30	534996	2674.98	DFT-s-OFDM QPSK	1@1	24.18	23.68	0.2333
41	30	30	534996	2674.98	DFT-s-OFDM 16 QAM	1@1	23.23	22.73	0.1875
41	30	35	502704	2513.52	DFT-s-OFDM PI/2 BPSK	1@1	24.36	23.86	0.2432
41	30	35	502704	2513.52	DFT-s-OFDM QPSK	1@1	24.47	23.97	0.2495



41	30	35	502704	2513.52	DFT-s-OFDM 16 QAM	1@1	23.60	23.10	0.2042
41	30	35	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	24.42	23.92	0.2466
41	30	35	518598	2592.99	DFT-s-OFDM QPSK	1@1	24.48	23.98	0.2500
41	30	35	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	23.56	23.06	0.2023
41	30	35	534498	2672.49	DFT-s-OFDM PI/2 BPSK	1@1	24.08	23.58	0.2280
41	30	35	534498	2672.49	DFT-s-OFDM QPSK	1@1	24.08	23.58	0.2280
41	30	35	534498	2672.49	DFT-s-OFDM 16 QAM	1@1	23.20	22.70	0.1862
41	30	40	503202	2516.01	DFT-s-OFDM PI/2 BPSK	1@1	24.39	23.89	0.2449
41	30	40	503202	2516.01	DFT-s-OFDM QPSK	1@1	24.39	23.89	0.2449
41	30	40	503202	2516.01	DFT-s-OFDM 16 QAM	1@1	23.55	23.05	0.2018
41	30	40	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	24.39	23.89	0.2449
41	30	40	518598	2592.99	DFT-s-OFDM QPSK	1@1	24.49	23.99	0.2506
41	30	40	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	23.38	22.88	0.1941
41	30	40	534000	2670	DFT-s-OFDM PI/2 BPSK	1@1	24.10	23.60	0.2291
41	30	40	534000	2670	DFT-s-OFDM QPSK	1@1	24.19	23.69	0.2339
41	30	40	534000	2670	DFT-s-OFDM 16 QAM	1@1	23.20	22.70	0.1862
41	30	45	503700	2518.5	DFT-s-OFDM PI/2 BPSK	1@1	24.61	24.11	0.2576
41	30	45	503700	2518.5	DFT-s-OFDM QPSK	1@1	24.70	24.20	0.2630
41	30	45	503700	2518.5	DFT-s-OFDM 16 QAM	1@1	23.80	23.30	0.2138
41	30	45	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	24.59	24.09	0.2564
41	30	45	518598	2592.99	DFT-s-OFDM QPSK	1@1	24.69	24.19	0.2624
41	30	45	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	23.58	23.08	0.2032
41	30	45	533496	2667.48	DFT-s-OFDM PI/2 BPSK	1@1	24.39	23.89	0.2449
41	30	45	533496	2667.48	DFT-s-OFDM QPSK	1@1	24.42	23.92	0.2466
41	30	45	533496	2667.48	DFT-s-OFDM 16 QAM	1@1	23.56	23.06	0.2023
41	30	50	504204	2521.02	DFT-s-OFDM PI/2 BPSK	1@1	23.90	23.40	0.2188
41	30	50	504204	2521.02	DFT-s-OFDM QPSK	1@1	23.98	23.48	0.2228
41	30	50	504204	2521.02	DFT-s-OFDM 16 QAM	1@1	23.02	22.52	0.1786
41	30	50	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	24.61	24.11	0.2576
41	30	50	518598	2592.99	DFT-s-OFDM QPSK	1@1	24.67	24.17	0.2612
41	30	50	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	23.68	23.18	0.2080
41	30	50	532998	2664.99	DFT-s-OFDM PI/2 BPSK	1@1	24.36	23.86	0.2432
41	30	50	532998	2664.99	DFT-s-OFDM QPSK	1@1	24.19	23.69	0.2339
41	30	50	532998	2664.99	DFT-s-OFDM 16 QAM	1@1	23.12	22.62	0.1828
41	30	60	505200	2526	DFT-s-OFDM PI/2 BPSK	1@1	24.55	24.05	0.2541
41	30	60	505200	2526	DFT-s-OFDM QPSK	1@1	24.61	24.11	0.2576
41	30	60	505200	2526	DFT-s-OFDM 16 QAM	1@1	23.80	23.30	0.2138
41	30	60	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	24.52	24.02	0.2523
41	30	60	518598	2592.99	DFT-s-OFDM QPSK	1@1	24.63	24.13	0.2588
41	30	60	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	23.57	23.07	0.2028
41	30	60	531996	2659.98	DFT-s-OFDM PI/2 BPSK	1@1	24.23	23.73	0.2360
41	30	60	531996	2659.98	DFT-s-OFDM QPSK	1@1	23.60	23.10	0.2042
41	30	60	531996	2659.98	DFT-s-OFDM 16 QAM	1@1	22.70	22.20	0.1660
41	30	70	505200	2531.01	DFT-s-OFDM PI/2 BPSK	1@1	24.71	24.21	0.2636
41	30	70	505200	2531.01	DFT-s-OFDM QPSK	1@1	24.81	24.31	0.2698
41	30	70	505200	2531.01	DFT-s-OFDM 16 QAM	1@1	24.02	23.52	0.2249
41	30	70	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	24.38	23.88	0.2443
41	30	70	518598	2592.99	DFT-s-OFDM QPSK	1@1	24.60	24.10	0.2570
41	30	70	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	23.65	23.15	0.2065
41	30	70	531996	2655	DFT-s-OFDM PI/2 BPSK	1@1	24.23	23.73	0.2360



41	30	70	531996	2655	DFT-s-OFDM QPSK	1@1	23.44	22.94	0.1968
41	30	70	531996	2655	DFT-s-OFDM 16 QAM	1@1	22.52	22.02	0.1592
41	30	80	507204	2536.02	DFT-s-OFDM PI/2 BPSK	1@1	24.78	24.28	0.2679
41	30	80	507204	2536.02	DFT-s-OFDM QPSK	1@1	24.92	24.42	0.2767
41	30	80	507204	2536.02	DFT-s-OFDM 16 QAM	1@1	23.91	23.41	0.2193
41	30	80	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	24.62	24.12	0.2582
41	30	80	518598	2592.99	DFT-s-OFDM QPSK	1@1	24.66	24.16	0.2606
41	30	80	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	23.70	23.20	0.2089
41	30	80	529998	2649.99	DFT-s-OFDM PI/2 BPSK	1@1	24.54	24.04	0.2535
41	30	80	529998	2649.99	DFT-s-OFDM QPSK	1@1	23.96	23.46	0.2218
41	30	80	529998	2649.99	DFT-s-OFDM 16 QAM	1@1	23.04	22.54	0.1795
41	30	90	508200	2541	DFT-s-OFDM PI/2 BPSK	1@1	24.74	24.24	0.2655
41	30	90	508200	2541	DFT-s-OFDM QPSK	1@1	24.88	24.38	0.2742
41	30	90	508200	2541	DFT-s-OFDM 16 QAM	1@1	23.93	23.43	0.2203
41	30	90	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	24.58	24.08	0.2559
41	30	90	518598	2592.99	DFT-s-OFDM QPSK	1@1	24.66	24.16	0.2606
41	30	90	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	23.76	23.26	0.2118
41	30	90	528996	2644.98	DFT-s-OFDM PI/2 BPSK	1@1	24.67	24.17	0.2612
41	30	90	528996	2644.98	DFT-s-OFDM QPSK	1@1	24.64	24.14	0.2594
41	30	90	528996	2644.98	DFT-s-OFDM 16 QAM	1@1	23.61	23.11	0.2046
41	30	100	509202	2546.01	DFT-s-OFDM PI/2 BPSK	135@67	24.74	24.24	0.2655
41	30	100	509202	2546.01	DFT-s-OFDM PI/2 BPSK	1@1	24.94	24.44	0.2780
41	30	100	509202	2546.01	DFT-s-OFDM PI/2 BPSK	1@271	24.98	24.48	0.2805
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	135@67	25.00	24.50	0.2818
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	1@1	25.10	24.60	0.2884
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	1@271	25.09	24.59	0.2877
41	30	100	509202	2546.01	DFT-s-OFDM 16 QAM	135@67	23.99	23.49	0.2234
41	30	100	509202	2546.01	DFT-s-OFDM 16 QAM	1@1	24.15	23.65	0.2317
41	30	100	509202	2546.01	DFT-s-OFDM 16 QAM	1@271	24.17	23.67	0.2328
41	30	100	509202	2546.01	DFT-s-OFDM 64 QAM	135@67	22.52	22.02	0.1592
41	30	100	509202	2546.01	DFT-s-OFDM 64 QAM	1@1	22.62	22.12	0.1629
41	30	100	509202	2546.01	DFT-s-OFDM 64 QAM	1@271	22.52	22.02	0.1592
41	30	100	509202	2546.01	DFT-s-OFDM 256 QAM	135@67	20.50	20.00	0.1000
41	30	100	509202	2546.01	DFT-s-OFDM 256 QAM	1@1	20.57	20.07	0.1016
41	30	100	509202	2546.01	DFT-s-OFDM 256 QAM	1@271	20.66	20.16	0.1038
41	30	100	509202	2546.01	CP-OFDM QPSK	137@68	23.47	22.97	0.1982
41	30	100	509202	2546.01	CP-OFDM QPSK	1@1	23.81	23.31	0.2143
41	30	100	509202	2546.01	CP-OFDM QPSK	1@271	23.75	23.25	0.2113
41	30	100	518598	2592.99	DFT-s-OFDM PI/2 BPSK	135@67	24.81	24.31	0.2698
41	30	100	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	24.73	24.23	0.2649
41	30	100	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@271	24.79	24.29	0.2685
41	30	100	518598	2592.99	DFT-s-OFDM QPSK	135@67	24.88	24.38	0.2742
41	30	100	518598	2592.99	DFT-s-OFDM QPSK	1@1	24.80	24.30	0.2692
41	30	100	518598	2592.99	DFT-s-OFDM QPSK	1@271	24.18	23.68	0.2333
41	30	100	518598	2592.99	DFT-s-OFDM 16 QAM	135@67	24.02	23.52	0.2249
41	30	100	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	23.85	23.35	0.2163
41	30	100	518598	2592.99	DFT-s-OFDM 16 QAM	1@271	23.33	22.83	0.1919
41	30	100	518598	2592.99	DFT-s-OFDM 64 QAM	135@67	22.53	22.03	0.1596
41	30	100	518598	2592.99	DFT-s-OFDM 64 QAM	1@1	22.44	21.94	0.1563
41	30	100	518598	2592.99	DFT-s-OFDM 64 QAM	1@271	21.91	21.41	0.1384



41	30	100	518598	2592.99	DFT-s-OFDM 256 QAM	135@67	20.61	20.11	0.1026
41	30	100	518598	2592.99	DFT-s-OFDM 256 QAM	1@1	20.31	19.81	0.0957
41	30	100	518598	2592.99	DFT-s-OFDM 256 QAM	1@271	20.34	19.84	0.0964
41	30	100	518598	2592.99	CP-OFDM QPSK	137@68	23.43	22.93	0.1963
41	30	100	518598	2592.99	CP-OFDM QPSK	1@1	23.46	22.96	0.1977
41	30	100	518598	2592.99	CP-OFDM QPSK	1@271	22.84	22.34	0.1714
41	30	100	528000	2640	DFT-s-OFDM PI/2 BPSK	135@67	24.56	24.06	0.2547
41	30	100	528000	2640	DFT-s-OFDM PI/2 BPSK	1@1	24.83	24.33	0.2710
41	30	100	528000	2640	DFT-s-OFDM PI/2 BPSK	1@271	24.66	24.16	0.2606
41	30	100	528000	2640	DFT-s-OFDM QPSK	135@67	23.97	23.47	0.2223
41	30	100	528000	2640	DFT-s-OFDM QPSK	1@1	24.93	24.43	0.2773
41	30	100	528000	2640	DFT-s-OFDM QPSK	1@271	23.80	23.30	0.2138
41	30	100	528000	2640	DFT-s-OFDM 16 QAM	135@67	23.07	22.57	0.1807
41	30	100	528000	2640	DFT-s-OFDM 16 QAM	1@1	23.98	23.48	0.2228
41	30	100	528000	2640	DFT-s-OFDM 16 QAM	1@271	22.93	22.43	0.1750
41	30	100	528000	2640	DFT-s-OFDM 64 QAM	135@67	21.68	21.18	0.1312
41	30	100	528000	2640	DFT-s-OFDM 64 QAM	1@1	22.48	21.98	0.1578
41	30	100	528000	2640	DFT-s-OFDM 64 QAM	1@271	21.52	21.02	0.1265
41	30	100	528000	2640	DFT-s-OFDM 256 QAM	135@67	20.16	19.66	0.0925
41	30	100	528000	2640	DFT-s-OFDM 256 QAM	1@1	20.43	19.93	0.0984
41	30	100	528000	2640	DFT-s-OFDM 256 QAM	1@271	19.93	19.43	0.0877
41	30	100	528000	2640	CP-OFDM QPSK	137@68	22.49	21.99	0.1581
41	30	100	528000	2640	CP-OFDM QPSK	1@1	23.67	23.17	0.2075
41	30	100	528000	2640	CP-OFDM QPSK	1@271	22.39	21.89	0.1545



5G NR n38 UL MIMO for Ant.3+4

NR Band	SCS	BandWidth	Arfcn	Freq (MHz)	Modulation	RB	ANT8 Power(dBm)	ANT1 Power(dBm)	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
38	30	40	518000	2590	CP-OFDM QPSK	53@26	22.34	21.48	24.94	22.14	0.1637
38	30	40	518000	2590	CP-OFDM QPSK	1@1	22.32	21.23	24.82	22.02	0.1592
38	30	40	518000	2590	CP-OFDM QPSK	1@104	22.09	21.34	24.74	21.94	0.1564
38	30	40	518000	2590	CP-OFDM 16 QAM	53@26	21.71	20.9	24.33	21.53	0.1424
38	30	40	518000	2590	CP-OFDM 16 QAM	1@1	21.86	20.52	24.25	21.45	0.1397
38	30	40	518000	2590	CP-OFDM 16 QAM	1@104	21.56	20.32	23.99	21.19	0.1317
38	30	40	518000	2590	CP-OFDM 64 QAM	53@26	20.86	19.9	23.42	20.62	0.1153
38	30	40	518000	2590	CP-OFDM 64 QAM	1@1	20.58	19.34	23.01	20.21	0.1051
38	30	40	518000	2590	CP-OFDM 64 QAM	1@104	20.32	19.25	22.83	20.03	0.1007
38	30	40	518000	2590	CP-OFDM 256 QAM	53@26	17.96	16.48	20.29	17.49	0.0561
38	30	40	518000	2590	CP-OFDM 256 QAM	1@1	17.67	16.41	20.10	17.30	0.0537
38	30	40	518000	2590	CP-OFDM 256 QAM	1@104	17.45	16.68	20.09	17.29	0.0536
38	30	40	519000	2595	CP-OFDM QPSK	53@26	22.67	21.9	25.31	22.51	0.1783
38	30	40	519000	2595	CP-OFDM QPSK	1@1	22.58	21.78	25.21	22.41	0.1741
38	30	40	519000	2595	CP-OFDM QPSK	1@104	22.32	21.32	24.86	22.06	0.1607
38	30	40	519000	2595	CP-OFDM 16 QAM	53@26	21.84	20.69	24.31	21.51	0.1417
38	30	40	519000	2595	CP-OFDM 16 QAM	1@1	21.89	20.67	24.33	21.53	0.1423
38	30	40	519000	2595	CP-OFDM 16 QAM	1@104	21.73	20.32	24.09	21.29	0.1347
38	30	40	519000	2595	CP-OFDM 64 QAM	53@26	20.83	19.7	23.31	20.51	0.1125
38	30	40	519000	2595	CP-OFDM 64 QAM	1@1	20.69	19.85	23.30	20.50	0.1122
38	30	40	519000	2595	CP-OFDM 64 QAM	1@104	20.42	19.91	23.18	20.38	0.1092
38	30	40	519000	2595	CP-OFDM 256 QAM	53@26	17.91	16.34	20.21	17.41	0.0550
38	30	40	519000	2595	CP-OFDM 256 QAM	1@1	17.7	16.39	20.10	17.30	0.0538
38	30	40	519000	2595	CP-OFDM 256 QAM	1@104	17.69	16.42	20.11	17.31	0.0538
38	30	40	520000	2600	CP-OFDM QPSK	53@26	22.49	21.9	25.22	22.42	0.1744
38	30	40	520000	2600	CP-OFDM QPSK	1@1	22.33	21.54	24.96	22.16	0.1646
38	30	40	520000	2600	CP-OFDM QPSK	1@104	22.25	21.18	24.76	21.96	0.1570
38	30	40	520000	2600	CP-OFDM 16 QAM	53@26	21.73	20.56	24.19	21.39	0.1379
38	30	40	520000	2600	CP-OFDM 16 QAM	1@1	21.82	20.49	24.22	21.42	0.1385
38	30	40	520000	2600	CP-OFDM 16 QAM	1@104	21.55	20.42	24.03	21.23	0.1328
38	30	40	520000	2600	CP-OFDM 64 QAM	53@26	20.84	19.76	23.34	20.54	0.1133
38	30	40	520000	2600	CP-OFDM 64 QAM	1@1	20.59	19.69	23.17	20.37	0.1090
38	30	40	520000	2600	CP-OFDM 64 QAM	1@104	20.33	19.54	22.96	20.16	0.1038
38	30	40	520000	2600	CP-OFDM 256 QAM	53@26	17.89	16.65	20.32	17.52	0.0566
38	30	40	520000	2600	CP-OFDM 256 QAM	1@1	17.69	16.42	20.11	17.31	0.0538
38	30	40	520000	2600	CP-OFDM 256 QAM	1@104	17.51	16.37	19.99	17.19	0.0523
38	30	10	515000	2575	CP-OFDM QPSK	1@1	21.78	20.54	24.21	21.41	0.1385
38	30	10	515000	2575	CP-OFDM 16 QAM	1@1	21.32	19.86	23.66	20.86	0.1219
38	30	10	515000	2575	CP-OFDM 64 QAM	1@1	19.8	18.1	22.04	19.24	0.0840
38	30	10	519000	2595	CP-OFDM QPSK	1@1	22.67	21.52	25.14	22.34	0.1715
38	30	10	519000	2595	CP-OFDM 16 QAM	1@1	22.32	21.5	24.94	22.14	0.1637
38	30	10	519000	2595	CP-OFDM 64 QAM	1@1	20.7	19.48	23.14	20.34	0.1082
38	30	10	523000	2615	CP-OFDM QPSK	1@1	22.38	20.99	24.75	21.95	0.1567
38	30	10	523000	2615	CP-OFDM 16 QAM	1@1	21.91	20.44	24.25	21.45	0.1395
38	30	10	523000	2615	CP-OFDM 64 QAM	1@1	20.34	18.54	22.54	19.74	0.0943
38	30	15	515500	2577.5	CP-OFDM QPSK	1@1	21.95	21	24.51	21.71	0.1483
38	30	15	515500	2577.5	CP-OFDM 16 QAM	1@1	21.39	20.24	23.86	21.06	0.1277



38	30	15	515500	2577.5	CP-OFDM 64 QAM	1@1	19.9	18.58	22.30	19.50	0.0891
38	30	15	519000	2595	CP-OFDM QPSK	1@1	22.54	21.05	24.87	22.07	0.1610
38	30	15	519000	2595	CP-OFDM 16 QAM	1@1	22.18	20.41	24.39	21.59	0.1444
38	30	15	519000	2595	CP-OFDM 64 QAM	1@1	20.56	18.52	22.67	19.87	0.0970
38	30	15	522500	2612.5	CP-OFDM QPSK	1@1	22.96	21.1	25.14	22.34	0.1714
38	30	15	522500	2612.5	CP-OFDM 16 QAM	1@1	22.4	21.69	25.07	22.27	0.1686
38	30	15	522500	2612.5	CP-OFDM 64 QAM	1@1	20.65	19.7	23.21	20.41	0.1099
38	30	20	516000	2580	CP-OFDM QPSK	1@1	21.93	20.86	24.44	21.64	0.1458
38	30	20	516000	2580	CP-OFDM 16 QAM	1@1	21.54	20.87	24.23	21.43	0.1389
38	30	20	516000	2580	CP-OFDM 64 QAM	1@1	20.9	19.59	23.30	20.50	0.1123
38	30	20	519000	2595	CP-OFDM QPSK	1@1	22.31	-2.55	22.32	19.52	0.0896
38	30	20	519000	2595	CP-OFDM 16 QAM	1@1	21.77	20.34	24.12	21.32	0.1356
38	30	20	519000	2595	CP-OFDM 64 QAM	1@1	20.41	19.85	23.15	20.35	0.1084
38	30	20	522000	2610	CP-OFDM QPSK	1@1	23.15	22.17	25.70	22.90	0.1949
38	30	20	522000	2610	CP-OFDM 16 QAM	1@1	22.62	21.55	25.13	22.33	0.1709
38	30	20	522000	2610	CP-OFDM 64 QAM	1@1	21.86	20.56	24.27	21.47	0.1402
38	30	25	516500	2582.5	CP-OFDM QPSK	1@1	22.25	21.67	24.98	22.18	0.1652
38	30	25	516500	2582.5	CP-OFDM 16 QAM	1@1	21.83	20.87	24.39	21.59	0.1441
38	30	25	516500	2582.5	CP-OFDM 64 QAM	1@1	20.22	19.36	22.82	20.02	0.1005
38	30	25	519000	2595	CP-OFDM QPSK	1@1	22.39	21.28	24.88	22.08	0.1615
38	30	25	519000	2595	CP-OFDM 16 QAM	1@1	21.87	20.73	24.35	21.55	0.1428
38	30	25	519000	2595	CP-OFDM 64 QAM	1@1	20.26	18.79	22.60	19.80	0.0954
38	30	25	521500	2607.5	CP-OFDM QPSK	1@1	22.47	21.23	24.90	22.10	0.1623
38	30	25	521500	2607.5	CP-OFDM 16 QAM	1@1	22	21.68	24.85	22.05	0.1604
38	30	25	521500	2607.5	CP-OFDM 64 QAM	1@1	20.5	19.63	23.10	20.30	0.1071
38	30	30	517000	2585	CP-OFDM QPSK	1@1	22.35	21.77	25.08	22.28	0.1690
38	30	30	517000	2585	CP-OFDM 16 QAM	1@1	21.9	20.16	24.13	21.33	0.1357
38	30	30	517000	2585	CP-OFDM 64 QAM	1@1	20.29	19.3	22.83	20.03	0.1008
38	30	30	519000	2595	CP-OFDM QPSK	1@1	22.36	21.37	24.90	22.10	0.1623
38	30	30	519000	2595	CP-OFDM 16 QAM	1@1	21.84	20.38	24.18	21.38	0.1374
38	30	30	519000	2595	CP-OFDM 64 QAM	1@1	20.26	19.82	23.06	20.26	0.1061
38	30	30	521000	2605	CP-OFDM QPSK	1@1	22.48	21.16	24.88	22.08	0.1614
38	30	30	521000	2605	CP-OFDM 16 QAM	1@1	21.96	20.45	24.28	21.48	0.1406
38	30	30	521000	2605	CP-OFDM 64 QAM	1@1	20.4	19.56	23.01	20.21	0.1050



5G NR n41 UL MIMO for Ant.3+4

NR Band	SCS	Band Width	Arfcn	Freq (MHz)	Modulation	RB	ANT4 Power(dBm)	ANT3 Power(dBm)	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
41	30	10	500202	2501.01	DFT-s-OFDM PI/2 BPSK	1@1	22.3	22.04	25.18	24.68	0.2939
41	30	10	500202	2501.01	DFT-s-OFDM QPSK	1@1	22.4	22.09	25.26	24.76	0.2991
41	30	10	500202	2501.01	DFT-s-OFDM 16 QAM	1@1	21.95	21.52	24.75	24.25	0.2661
41	30	10	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	22.09	21.83	24.97	24.47	0.2800
41	30	10	518598	2592.99	DFT-s-OFDM QPSK	1@1	22.18	21.8	25.00	24.50	0.2821
41	30	10	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	21.72	21.2	24.48	23.98	0.2499
41	30	10	537000	2685	DFT-s-OFDM PI/2 BPSK	1@1	22.06	21.73	24.91	24.41	0.2760
41	30	10	537000	2685	DFT-s-OFDM QPSK	1@1	22.22	21.96	25.10	24.60	0.2886
41	30	10	537000	2685	DFT-s-OFDM 16 QAM	1@1	21.77	21.2	24.50	24.00	0.2515
41	30	15	500700	2503.5	DFT-s-OFDM PI/2 BPSK	1@1	22.43	22.17	25.31	24.81	0.3028
41	30	15	500700	2503.5	DFT-s-OFDM QPSK	1@1	22.46	22.2	25.34	24.84	0.3049
41	30	15	500700	2503.5	DFT-s-OFDM 16 QAM	1@1	22.2	21.63	24.93	24.43	0.2776
41	30	15	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	22.35	21.93	25.16	24.66	0.2921
41	30	15	518598	2592.99	DFT-s-OFDM QPSK	1@1	22.31	21.9	25.12	24.62	0.2897
41	30	15	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	22.01	21.45	24.75	24.25	0.2660
41	30	15	536496	2682.48	DFT-s-OFDM PI/2 BPSK	1@1	21.97	21.62	24.81	24.31	0.2697
41	30	15	536496	2682.48	DFT-s-OFDM QPSK	1@1	22.26	21.8	25.05	24.55	0.2849
41	30	15	536496	2682.48	DFT-s-OFDM 16 QAM	1@1	21.83	21.15	24.51	24.01	0.2520
41	30	20	501204	2506.02	DFT-s-OFDM PI/2 BPSK	1@1	22.41	22.05	25.24	24.74	0.2981
41	30	20	501204	2506.02	DFT-s-OFDM QPSK	1@1	22.37	22.24	25.32	24.82	0.3031
41	30	20	501204	2506.02	DFT-s-OFDM 16 QAM	1@1	22.24	21.62	24.95	24.45	0.2787
41	30	20	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	22.29	21.85	25.09	24.59	0.2875
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	1@1	22.3	21.89	25.11	24.61	0.2891
41	30	20	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	21.86	21.14	24.53	24.03	0.2527
41	30	20	535998	2679.99	DFT-s-OFDM PI/2 BPSK	1@1	22.07	21.61	24.86	24.36	0.2727
41	30	20	535998	2679.99	DFT-s-OFDM QPSK	1@1	22.14	21.66	24.92	24.42	0.2765
41	30	20	535998	2679.99	DFT-s-OFDM 16 QAM	1@1	21.73	21.07	24.42	23.92	0.2468
41	30	25	501702	2508.51	DFT-s-OFDM PI/2 BPSK	1@1	22.59	22.34	25.48	24.98	0.3146
41	30	25	501702	2508.51	DFT-s-OFDM QPSK	1@1	22.55	22.61	25.59	25.09	0.3229
41	30	25	501702	2508.51	DFT-s-OFDM 16 QAM	1@1	22.28	21.89	25.10	24.60	0.2884
41	30	25	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	22.52	22	25.28	24.78	0.3005
41	30	25	518598	2592.99	DFT-s-OFDM QPSK	1@1	22.56	22.42	25.50	25.00	0.3163
41	30	25	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	22.25	21.59	24.94	24.44	0.2782
41	30	25	535500	2677.5	DFT-s-OFDM PI/2 BPSK	1@1	22.29	21.75	25.04	24.54	0.2844
41	30	25	535500	2677.5	DFT-s-OFDM QPSK	1@1	22.4	22.02	25.22	24.72	0.2968
41	30	25	535500	2677.5	DFT-s-OFDM 16 QAM	1@1	22.04	21.45	24.77	24.27	0.2670
41	30	30	502200	2511	DFT-s-OFDM PI/2 BPSK	1@1	22.65	22.33	25.50	25.00	0.3165
41	30	30	502200	2511	DFT-s-OFDM QPSK	1@1	22.63	22.67	25.66	25.16	0.3281
41	30	30	502200	2511	DFT-s-OFDM 16 QAM	1@1	22.44	21.94	25.21	24.71	0.2956
41	30	30	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	22.65	22.16	25.42	24.92	0.3106
41	30	30	518598	2592.99	DFT-s-OFDM QPSK	1@1	22.65	22.18	25.43	24.93	0.3113
41	30	30	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	22.29	21.61	24.97	24.47	0.2801
41	30	30	534996	2674.98	DFT-s-OFDM PI/2 BPSK	1@1	22.28	21.87	25.09	24.59	0.2877
41	30	30	534996	2674.98	DFT-s-OFDM QPSK	1@1	22.28	22.09	25.20	24.70	0.2949
41	30	30	534996	2674.98	DFT-s-OFDM 16 QAM	1@1	22.02	21.48	24.77	24.27	0.2672
41	30	35	502704	2513.52	DFT-s-OFDM PI/2 BPSK	1@1	22.49	22.29	25.40	24.90	0.3091
41	30	35	502704	2513.52	DFT-s-OFDM QPSK	1@1	22.58	22.55	25.58	25.08	0.3218



41	30	35	502704	2513.52	DFT-s-OFDM 16 QAM	1@1	22.23	21.82	25.04	24.54	0.2845
41	30	35	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	22.41	22.07	25.25	24.75	0.2988
41	30	35	518598	2592.99	DFT-s-OFDM QPSK	1@1	22.55	22.05	25.32	24.82	0.3032
41	30	35	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	22.04	21.52	24.80	24.30	0.2690
41	30	35	534498	2672.49	DFT-s-OFDM PI/2 BPSK	1@1	22.16	21.77	24.98	24.48	0.2805
41	30	35	534498	2672.49	DFT-s-OFDM QPSK	1@1	22.2	21.87	25.05	24.55	0.2850
41	30	35	534498	2672.49	DFT-s-OFDM 16 QAM	1@1	21.75	21.2	24.49	23.99	0.2508
41	30	40	503202	2516.01	DFT-s-OFDM PI/2 BPSK	1@1	22.37	22.08	25.24	24.74	0.2977
41	30	40	503202	2516.01	DFT-s-OFDM QPSK	1@1	22.5	22.2	25.36	24.86	0.3064
41	30	40	503202	2516.01	DFT-s-OFDM 16 QAM	1@1	21.97	21.7	24.85	24.35	0.2721
41	30	40	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	22.41	21.89	25.17	24.67	0.2930
41	30	40	518598	2592.99	DFT-s-OFDM QPSK	1@1	22.46	22.05	25.27	24.77	0.2999
41	30	40	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	21.97	21.4	24.70	24.20	0.2633
41	30	40	534000	2670	DFT-s-OFDM PI/2 BPSK	1@1	22.09	21.6	24.86	24.36	0.2730
41	30	40	534000	2670	DFT-s-OFDM QPSK	1@1	22.15	21.75	24.96	24.46	0.2796
41	30	40	534000	2670	DFT-s-OFDM 16 QAM	1@1	21.64	21.2	24.44	23.94	0.2475
41	30	45	503700	2518.5	DFT-s-OFDM PI/2 BPSK	1@1	22.51	22.26	25.40	24.90	0.3088
41	30	45	503700	2518.5	DFT-s-OFDM QPSK	1@1	22.52	22.33	25.44	24.94	0.3116
41	30	45	503700	2518.5	DFT-s-OFDM 16 QAM	1@1	22.25	21.85	25.06	24.56	0.2861
41	30	45	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	22.45	21.94	25.21	24.71	0.2960
41	30	45	518598	2592.99	DFT-s-OFDM QPSK	1@1	22.37	22.17	25.28	24.78	0.3007
41	30	45	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	22.21	21.49	24.88	24.38	0.2739
41	30	45	533496	2667.48	DFT-s-OFDM PI/2 BPSK	1@1	22.24	21.79	25.03	24.53	0.2839
41	30	45	533496	2667.48	DFT-s-OFDM QPSK	1@1	22.17	21.87	25.03	24.53	0.2840
41	30	45	533496	2667.48	DFT-s-OFDM 16 QAM	1@1	21.9	21.38	24.66	24.16	0.2605
41	30	50	504204	2521.02	DFT-s-OFDM PI/2 BPSK	1@1	22.52	22.26	25.40	24.90	0.3092
41	30	50	504204	2521.02	DFT-s-OFDM QPSK	1@1	22.64	22.34	25.50	25.00	0.3164
41	30	50	504204	2521.02	DFT-s-OFDM 16 QAM	1@1	22.26	21.83	25.06	24.56	0.2858
41	30	50	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	22.45	22.11	25.29	24.79	0.3016
41	30	50	518598	2592.99	DFT-s-OFDM QPSK	1@1	22.6	22.19	25.41	24.91	0.3098
41	30	50	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	22.32	21.6	24.99	24.49	0.2809
41	30	50	532998	2664.99	DFT-s-OFDM PI/2 BPSK	1@1	22.29	21.9	25.11	24.61	0.2890
41	30	50	532998	2664.99	DFT-s-OFDM QPSK	1@1	22.3	21.9	25.11	24.61	0.2894
41	30	50	532998	2664.99	DFT-s-OFDM 16 QAM	1@1	22.05	21.39	24.74	24.24	0.2656
41	30	60	505200	2526	DFT-s-OFDM PI/2 BPSK	1@1	22.38	22.22	25.31	24.81	0.3028
41	30	60	505200	2526	DFT-s-OFDM QPSK	1@1	22.41	22.29	25.36	24.86	0.3062
41	30	60	505200	2526	DFT-s-OFDM 16 QAM	1@1	22.18	21.66	24.94	24.44	0.2778
41	30	60	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	22.5	21.93	25.23	24.73	0.2975
41	30	60	518598	2592.99	DFT-s-OFDM QPSK	1@1	22.61	22.23	25.43	24.93	0.3115
41	30	60	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	22.2	21.54	24.89	24.39	0.2750
41	30	60	531996	2659.98	DFT-s-OFDM PI/2 BPSK	1@1	22.07	21.8	24.95	24.45	0.2784
41	30	60	531996	2659.98	DFT-s-OFDM QPSK	1@1	22.15	21.79	24.98	24.48	0.2808
41	30	60	531996	2659.98	DFT-s-OFDM 16 QAM	1@1	21.91	21.23	24.59	24.09	0.2567
41	30	70	505200	2531.01	DFT-s-OFDM PI/2 BPSK	1@1	22.39	22.33	25.37	24.87	0.3069
41	30	70	505200	2531.01	DFT-s-OFDM QPSK	1@1	22.34	22.4	25.38	24.88	0.3076
41	30	70	505200	2531.01	DFT-s-OFDM 16 QAM	1@1	22.05	21.83	24.95	24.45	0.2787
41	30	70	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	22.42	22.11	25.28	24.78	0.3005
41	30	70	518598	2592.99	DFT-s-OFDM QPSK	1@1	22.48	22.14	25.32	24.82	0.3036
41	30	70	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	22.05	21.54	24.81	24.31	0.2699
41	30	70	531996	2655	DFT-s-OFDM PI/2 BPSK	1@1	22.09	22.03	25.07	24.57	0.2864



41	30	70	531996	2655	DFT-s-OFDM QPSK	1@1	22.18	22.21	25.21	24.71	0.2955
41	30	70	531996	2655	DFT-s-OFDM 16 QAM	1@1	22	21.57	24.80	24.30	0.2692
41	30	80	507204	2536.02	DFT-s-OFDM PI/2 BPSK	1@1	22.26	22.26	25.27	24.77	0.2999
41	30	80	507204	2536.02	DFT-s-OFDM QPSK	1@1	22.28	22.47	25.39	24.89	0.3081
41	30	80	507204	2536.02	DFT-s-OFDM 16 QAM	1@1	22.1	21.77	24.95	24.45	0.2785
41	30	80	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	22.26	22.14	25.21	24.71	0.2958
41	30	80	518598	2592.99	DFT-s-OFDM QPSK	1@1	22.47	22.11	25.30	24.80	0.3023
41	30	80	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	22.16	21.6	24.90	24.40	0.2754
41	30	80	529998	2649.99	DFT-s-OFDM PI/2 BPSK	1@1	22.16	22.02	25.10	24.60	0.2885
41	30	80	529998	2649.99	DFT-s-OFDM QPSK	1@1	22.26	22.14	25.21	24.71	0.2958
41	30	80	529998	2649.99	DFT-s-OFDM 16 QAM	1@1	22.02	21.61	24.83	24.33	0.2710
41	30	90	508200	2541	DFT-s-OFDM PI/2 BPSK	1@1	22.44	22.42	25.44	24.94	0.3119
41	30	90	508200	2541	DFT-s-OFDM QPSK	1@1	22.34	22.4	25.38	24.88	0.3076
41	30	90	508200	2541	DFT-s-OFDM 16 QAM	1@1	22.11	21.78	24.96	24.46	0.2792
41	30	90	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	22.33	21.99	25.17	24.67	0.2933
41	30	90	518598	2592.99	DFT-s-OFDM QPSK	1@1	22.4	22.17	25.30	24.80	0.3018
41	30	90	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	22.01	21.53	24.79	24.29	0.2683
41	30	90	528996	2644.98	DFT-s-OFDM PI/2 BPSK	1@1	21.91	21.53	24.73	24.23	0.2651
41	30	90	528996	2644.98	DFT-s-OFDM QPSK	1@1	22.23	22.22	25.24	24.74	0.2975
41	30	90	528996	2644.98	DFT-s-OFDM 16 QAM	1@1	21.64	21.83	24.75	24.25	0.2658
41	30	100	509202	2546.01	DFT-s-OFDM PI/2 BPSK	135@67	22.22	21.95	25.10	24.60	0.2882
41	30	100	509202	2546.01	DFT-s-OFDM PI/2 BPSK	1@1	22.53	22.49	25.52	25.02	0.3177
41	30	100	509202	2546.01	DFT-s-OFDM PI/2 BPSK	1@271	22.51	22.39	25.46	24.96	0.3134
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	135@67	22.54	22.24	25.40	24.90	0.3092
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	1@1	22.56	22.59	25.59	25.09	0.3225
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	1@271	22.52	22.52	25.53	25.03	0.3184
41	30	100	509202	2546.01	DFT-s-OFDM 16 QAM	135@67	22.1	21.84	24.98	24.48	0.2807
41	30	100	509202	2546.01	DFT-s-OFDM 16 QAM	1@1	22.14	21.99	25.08	24.58	0.2868
41	30	100	509202	2546.01	DFT-s-OFDM 16 QAM	1@271	22.37	21.86	25.13	24.63	0.2906
41	30	100	509202	2546.01	DFT-s-OFDM 64 QAM	135@67	20.55	20.32	23.45	22.95	0.1971
41	30	100	509202	2546.01	DFT-s-OFDM 64 QAM	1@1	20.44	20.47	23.47	22.97	0.1979
41	30	100	509202	2546.01	DFT-s-OFDM 64 QAM	1@271	20.48	20.34	23.42	22.92	0.1959
41	30	100	509202	2546.01	DFT-s-OFDM 256 QAM	135@67	17.44	17.21	20.34	19.84	0.0963
41	30	100	509202	2546.01	DFT-s-OFDM 256 QAM	1@1	17.28	17.5	20.40	19.90	0.0978
41	30	100	509202	2546.01	DFT-s-OFDM 256 QAM	1@271	17.3	17.33	20.33	19.83	0.0961
41	30	100	509202	2546.01	CP-OFDM QPSK	137@68	22.43	22.22	25.34	24.84	0.3045
41	30	100	509202	2546.01	CP-OFDM QPSK	1@1	22.58	22.62	25.61	25.11	0.3244
41	30	100	509202	2546.01	CP-OFDM QPSK	1@271	22.52	22.51	25.53	25.03	0.3181
41	30	100	518598	2592.99	DFT-s-OFDM PI/2 BPSK	135@67	22.16	21.79	24.99	24.49	0.2811
41	30	100	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	22.39	22.15	25.28	24.78	0.3007
41	30	100	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@271	22.54	22.26	25.41	24.91	0.3099
41	30	100	518598	2592.99	DFT-s-OFDM QPSK	135@67	22.34	22.03	25.20	24.70	0.2950
41	30	100	518598	2592.99	DFT-s-OFDM QPSK	1@1	22.45	22.41	25.44	24.94	0.3119
41	30	100	518598	2592.99	DFT-s-OFDM QPSK	1@271	22.6	22.33	25.48	24.98	0.3146
41	30	100	518598	2592.99	DFT-s-OFDM 16 QAM	135@67	22.04	21.78	24.92	24.42	0.2768
41	30	100	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	22.14	21.81	24.99	24.49	0.2811
41	30	100	518598	2592.99	DFT-s-OFDM 16 QAM	1@271	22.2	21.69	24.96	24.46	0.2794
41	30	100	518598	2592.99	DFT-s-OFDM 64 QAM	135@67	20.35	20.17	23.27	22.77	0.1893
41	30	100	518598	2592.99	DFT-s-OFDM 64 QAM	1@1	20.46	20.29	23.39	22.89	0.1944
41	30	100	518598	2592.99	DFT-s-OFDM 64 QAM	1@271	20.51	20.3	23.42	22.92	0.1957



41	30	100	518598	2592.99	DFT-s-OFDM 256 QAM	135@67	17.36	17.19	20.29	19.79	0.0952
41	30	100	518598	2592.99	DFT-s-OFDM 256 QAM	1@1	17.41	17.25	20.34	19.84	0.0964
41	30	100	518598	2592.99	DFT-s-OFDM 256 QAM	1@271	17.29	17.22	20.27	19.77	0.0947
41	30	100	518598	2592.99	CP-OFDM QPSK	137@68	22.29	22.08	25.20	24.70	0.2949
41	30	100	518598	2592.99	CP-OFDM QPSK	1@1	22.61	22.44	25.54	25.04	0.3189
41	30	100	518598	2592.99	CP-OFDM QPSK	1@271	22.63	22.5	25.58	25.08	0.3218
41	30	100	528000	2640	DFT-s-OFDM PI/2 BPSK	135@67	21.99	21.89	24.95	24.45	0.2786
41	30	100	528000	2640	DFT-s-OFDM PI/2 BPSK	1@1	22.28	22.2	25.25	24.75	0.2986
41	30	100	528000	2640	DFT-s-OFDM PI/2 BPSK	1@271	22.47	22.18	25.34	24.84	0.3046
41	30	100	528000	2640	DFT-s-OFDM QPSK	135@67	22.39	22.05	25.23	24.73	0.2974
41	30	100	528000	2640	DFT-s-OFDM QPSK	1@1	22.41	22.46	25.45	24.95	0.3123
41	30	100	528000	2640	DFT-s-OFDM QPSK	1@271	22.61	22.37	25.50	25.00	0.3164
41	30	100	528000	2640	DFT-s-OFDM 16 QAM	135@67	22.03	21.76	24.91	24.41	0.2759
41	30	100	528000	2640	DFT-s-OFDM 16 QAM	1@1	22.21	21.66	24.95	24.45	0.2789
41	30	100	528000	2640	DFT-s-OFDM 16 QAM	1@271	22.38	21.75	25.09	24.59	0.2875
41	30	100	528000	2640	DFT-s-OFDM 64 QAM	135@67	20.44	20.23	23.35	22.85	0.1926
41	30	100	528000	2640	DFT-s-OFDM 64 QAM	1@1	20.37	20.37	23.38	22.88	0.1941
41	30	100	528000	2640	DFT-s-OFDM 64 QAM	1@271	20.55	20.13	23.36	22.86	0.1930
41	30	100	528000	2640	DFT-s-OFDM 256 QAM	135@67	17.43	17.18	20.32	19.82	0.0959
41	30	100	528000	2640	DFT-s-OFDM 256 QAM	1@1	17.33	17.34	20.35	19.85	0.0965
41	30	100	528000	2640	DFT-s-OFDM 256 QAM	1@271	17.52	17.32	20.43	19.93	0.0984
41	30	100	528000	2640	CP-OFDM QPSK	137@68	22.49	22.21	25.36	24.86	0.3064
41	30	100	528000	2640	CP-OFDM QPSK	1@1	22.57	22.41	25.50	25.00	0.3163
41	30	100	528000	2640	CP-OFDM QPSK	1@271	22.82	22.49	25.67	25.17	0.3287

**5G NR n12 for Ant.0**

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	ERP(dBm)	ERP(W)
12	15	15	141300	706.5	DFT-s-OFDM PI/2 BPSK	36@18	26.12	20.27	0.1064
12	15	15	141300	706.5	DFT-s-OFDM PI/2 BPSK	1@1	26.13	20.28	0.1067
12	15	15	141300	706.5	DFT-s-OFDM PI/2 BPSK	1@77	26.05	20.2	0.1047
12	15	15	141300	706.5	DFT-s-OFDM QPSK	36@18	26.23	20.38	0.1091
12	15	15	141300	706.5	DFT-s-OFDM QPSK	1@1	26.35	20.5	0.1122
12	15	15	141300	706.5	DFT-s-OFDM QPSK	1@77	26.31	20.46	0.1112
12	15	15	141300	706.5	DFT-s-OFDM 16 QAM	36@18	25.21	19.36	0.0863
12	15	15	141300	706.5	DFT-s-OFDM 16 QAM	1@1	25.35	19.5	0.0891
12	15	15	141300	706.5	DFT-s-OFDM 16 QAM	1@77	25.34	19.49	0.0889
12	15	15	141300	706.5	DFT-s-OFDM 64 QAM	36@18	23.74	17.89	0.0615
12	15	15	141300	706.5	DFT-s-OFDM 64 QAM	1@1	23.88	18.03	0.0635
12	15	15	141300	706.5	DFT-s-OFDM 64 QAM	1@77	23.76	17.91	0.0618
12	15	15	141300	706.5	DFT-s-OFDM 256 QAM	36@18	21.71	15.86	0.0385
12	15	15	141300	706.5	DFT-s-OFDM 256 QAM	1@1	21.59	15.74	0.0375
12	15	15	141300	706.5	DFT-s-OFDM 256 QAM	1@77	21.4	15.55	0.0359
12	15	15	141300	706.5	CP-OFDM QPSK	39@19	24.84	18.99	0.0793
12	15	15	141300	706.5	CP-OFDM QPSK	1@1	24.92	19.07	0.0807
12	15	15	141300	706.5	CP-OFDM QPSK	1@77	24.75	18.9	0.0776
12	15	15	141500	707.5	DFT-s-OFDM PI/2 BPSK	36@18	26.18	20.33	0.1079
12	15	15	141500	707.5	DFT-s-OFDM PI/2 BPSK	1@1	26.08	20.23	0.1054
12	15	15	141500	707.5	DFT-s-OFDM PI/2 BPSK	1@77	26.04	20.19	0.1045
12	15	15	141500	707.5	DFT-s-OFDM QPSK	36@18	26.22	20.37	0.1089
12	15	15	141500	707.5	DFT-s-OFDM QPSK	1@1	26.33	20.48	0.1117
12	15	15	141500	707.5	DFT-s-OFDM QPSK	1@77	26.27	20.42	0.1102
12	15	15	141500	707.5	DFT-s-OFDM 16 QAM	36@18	25.15	19.3	0.0851
12	15	15	141500	707.5	DFT-s-OFDM 16 QAM	1@1	25.34	19.49	0.0889
12	15	15	141500	707.5	DFT-s-OFDM 16 QAM	1@77	25.31	19.46	0.0883
12	15	15	141500	707.5	DFT-s-OFDM 64 QAM	36@18	23.7	17.85	0.0610
12	15	15	141500	707.5	DFT-s-OFDM 64 QAM	1@1	23.79	17.94	0.0622
12	15	15	141500	707.5	DFT-s-OFDM 64 QAM	1@77	23.72	17.87	0.0612
12	15	15	141500	707.5	DFT-s-OFDM 256 QAM	36@18	21.68	15.83	0.0383
12	15	15	141500	707.5	DFT-s-OFDM 256 QAM	1@1	21.51	15.66	0.0368
12	15	15	141500	707.5	DFT-s-OFDM 256 QAM	1@77	21.37	15.52	0.0356
12	15	15	141500	707.5	CP-OFDM QPSK	39@19	24.88	19.03	0.0800
12	15	15	141500	707.5	CP-OFDM QPSK	1@1	24.82	18.97	0.0789
12	15	15	141500	707.5	CP-OFDM QPSK	1@77	24.64	18.79	0.0757
12	15	15	141700	708.5	DFT-s-OFDM PI/2 BPSK	36@18	26.14	20.29	0.1069
12	15	15	141700	708.5	DFT-s-OFDM PI/2 BPSK	1@1	26.06	20.21	0.1050
12	15	15	141700	708.5	DFT-s-OFDM PI/2 BPSK	1@77	26	20.15	0.1035
12	15	15	141700	708.5	DFT-s-OFDM QPSK	36@18	26.17	20.32	0.1076
12	15	15	141700	708.5	DFT-s-OFDM QPSK	1@1	26.28	20.43	0.1104
12	15	15	141700	708.5	DFT-s-OFDM QPSK	1@77	26.17	20.32	0.1076
12	15	15	141700	708.5	DFT-s-OFDM 16 QAM	36@18	25.12	19.27	0.0845
12	15	15	141700	708.5	DFT-s-OFDM 16 QAM	1@1	25.29	19.44	0.0879
12	15	15	141700	708.5	DFT-s-OFDM 16 QAM	1@77	25.26	19.41	0.0873
12	15	15	141700	708.5	DFT-s-OFDM 64 QAM	36@18	23.65	17.8	0.0603
12	15	15	141700	708.5	DFT-s-OFDM 64 QAM	1@1	23.77	17.92	0.0619



12	15	15	141700	708.5	DFT-s-OFDM 64 QAM	1@77	23.72	17.87	0.0612
12	15	15	141700	708.5	DFT-s-OFDM 256 QAM	36@18	21.64	15.79	0.0379
12	15	15	141700	708.5	DFT-s-OFDM 256 QAM	1@1	21.53	15.68	0.0370
12	15	15	141700	708.5	DFT-s-OFDM 256 QAM	1@77	21.3	15.45	0.0351
12	15	15	141700	708.5	CP-OFDM QPSK	39@19	24.76	18.91	0.0778
12	15	15	141700	708.5	CP-OFDM QPSK	1@1	24.78	18.93	0.0782
12	15	15	141700	708.5	CP-OFDM QPSK	1@77	24.67	18.82	0.0762
12	15	5	140300	701.5	DFT-s-OFDM PI/2 BPSK	1@1	25.89	20.04	0.1009
12	15	5	140300	701.5	DFT-s-OFDM QPSK	1@1	26.14	20.29	0.1069
12	15	5	140300	701.5	DFT-s-OFDM 16 QAM	1@1	25.19	19.34	0.0859
12	15	5	141500	707.5	DFT-s-OFDM PI/2 BPSK	1@1	25.96	20.11	0.1026
12	15	5	141500	707.5	DFT-s-OFDM QPSK	1@1	26.17	20.32	0.1076
12	15	5	141500	707.5	DFT-s-OFDM 16 QAM	1@1	25.26	19.41	0.0873
12	15	5	142700	713.5	DFT-s-OFDM PI/2 BPSK	1@1	25.84	19.99	0.0998
12	15	5	142700	713.5	DFT-s-OFDM QPSK	1@1	26.03	20.18	0.1042
12	15	5	142700	713.5	DFT-s-OFDM 16 QAM	1@1	25.17	19.32	0.0855
12	15	10	140800	704	DFT-s-OFDM PI/2 BPSK	1@1	25.98	20.13	0.1030
12	15	10	140800	704	DFT-s-OFDM QPSK	1@1	26.18	20.33	0.1079
12	15	10	140800	704	DFT-s-OFDM 16 QAM	1@1	25.18	19.33	0.0857
12	15	10	141500	707.5	DFT-s-OFDM PI/2 BPSK	1@1	26.01	20.16	0.1038
12	15	10	141500	707.5	DFT-s-OFDM QPSK	1@1	26.27	20.42	0.1102
12	15	10	141500	707.5	DFT-s-OFDM 16 QAM	1@1	25.24	19.39	0.0869
12	15	10	142200	711	DFT-s-OFDM PI/2 BPSK	1@1	25.98	20.13	0.1030
12	15	10	142200	711	DFT-s-OFDM QPSK	1@1	26.21	20.36	0.1086
12	15	10	142200	711	DFT-s-OFDM 16 QAM	1@1	25.2	19.35	0.0861



Software Version: 23.06.1602

FR1 N7 SA

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	-0.0043	PASS	NV
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0062	PASS	LV
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	-0.0059	PASS	HV
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	-0.0047	PASS	-30°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	-0.0033	PASS	-20°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0028	PASS	-10°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0017	PASS	0°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	-0.0036	PASS	10°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0057	PASS	20°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	-0.0041	PASS	30°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	-0.0026	PASS	40°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0028	PASS	50°C

Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
7	15	20	507000	2535.0	DFT-s-OFDM PI/2 BPSK	100@0	4.02	13	PASS
7	15	20	507000	2535.0	DFT-s-OFDM PI/2 BPSK	1@0	3.57	13	PASS
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	5.0	13	PASS
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	1@0	5.44	13	PASS

N7(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



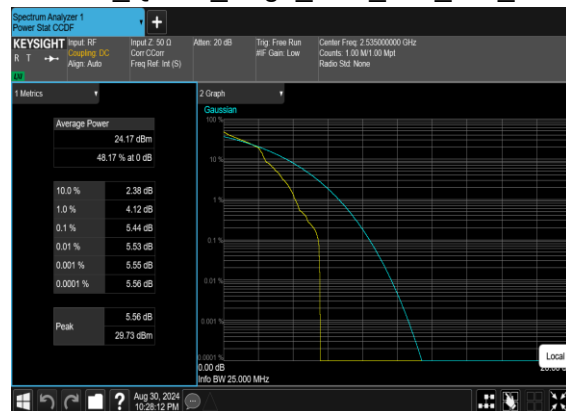
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N7(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

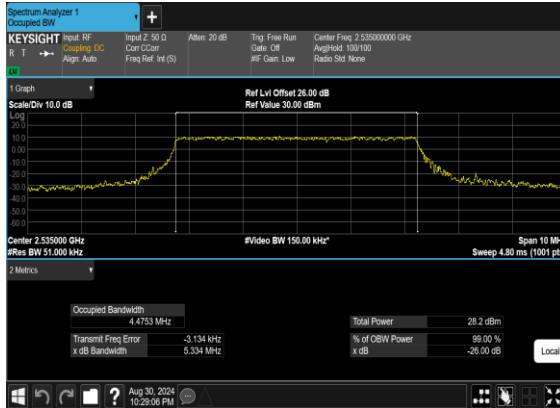


**Occupied Bandwidth**

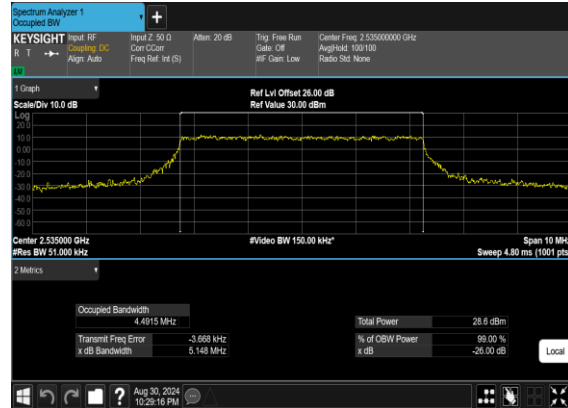
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
7	15	5	507000	2535.0	CP-OFDM QPSK	25@0	4.4753	5.334
7	15	5	507000	2535.0	CP-OFDM 16 QAM	25@0	4.4915	5.148
7	15	5	507000	2535.0	CP-OFDM 64 QAM	25@0	4.4776	5.007
7	15	5	507000	2535.0	CP-OFDM 256 QAM	25@0	4.4694	5.044
7	15	10	507000	2535.0	CP-OFDM QPSK	52@0	9.2846	9.962
7	15	10	507000	2535.0	CP-OFDM 16 QAM	52@0	9.2733	10.07
7	15	10	507000	2535.0	CP-OFDM 64 QAM	52@0	9.2606	9.996
7	15	10	507000	2535.0	CP-OFDM 256 QAM	52@0	9.3059	10.12
7	15	15	507000	2535.0	CP-OFDM QPSK	79@0	14.096	14.94
7	15	15	507000	2535.0	CP-OFDM 16 QAM	79@0	14.112	14.96
7	15	15	507000	2535.0	CP-OFDM 64 QAM	79@0	14.101	14.87
7	15	15	507000	2535.0	CP-OFDM 256 QAM	79@0	14.096	15.05
7	15	20	507000	2535.0	CP-OFDM QPSK	106@0	18.892	19.91
7	15	20	507000	2535.0	CP-OFDM 16 QAM	106@0	18.964	20.05
7	15	20	507000	2535.0	CP-OFDM 64 QAM	106@0	18.947	19.97
7	15	20	507000	2535.0	CP-OFDM 256 QAM	106@0	18.963	19.83
7	15	25	507000	2535.0	CP-OFDM QPSK	133@0	23.79	24.7
7	15	25	507000	2535.0	CP-OFDM 16 QAM	133@0	23.767	24.94
7	15	25	507000	2535.0	CP-OFDM 64 QAM	133@0	23.781	24.73
7	15	25	507000	2535.0	CP-OFDM 256 QAM	133@0	23.807	24.69
7	15	30	507000	2535.0	CP-OFDM QPSK	160@0	28.576	29.76
7	15	30	507000	2535.0	CP-OFDM 16 QAM	160@0	28.586	29.54
7	15	30	507000	2535.0	CP-OFDM 64 QAM	160@0	28.559	29.59
7	15	30	507000	2535.0	CP-OFDM 256 QAM	160@0	28.587	29.74
7	15	35	507000	2535.0	CP-OFDM QPSK	188@0	33.608	34.82
7	15	35	507000	2535.0	CP-OFDM 16 QAM	188@0	33.545	34.71
7	15	35	507000	2535.0	CP-OFDM 64 QAM	188@0	33.606	34.76
7	15	35	507000	2535.0	CP-OFDM 256 QAM	188@0	33.639	34.83
7	15	40	507000	2535.0	CP-OFDM QPSK	216@0	38.584	39.95
7	15	40	507000	2535.0	CP-OFDM 16 QAM	216@0	38.614	39.85
7	15	40	507000	2535.0	CP-OFDM 64 QAM	216@0	38.59	39.86
7	15	40	507000	2535.0	CP-OFDM 256 QAM	216@0	38.608	39.9
7	15	50	507000	2535.0	CP-OFDM QPSK	270@0	48.218	49.97
7	15	50	507000	2535.0	CP-OFDM 16 QAM	270@0	48.244	49.77
7	15	50	507000	2535.0	CP-OFDM 64 QAM	270@0	48.283	49.83
7	15	50	507000	2535.0	CP-OFDM 256 QAM	270@0	48.268	49.89



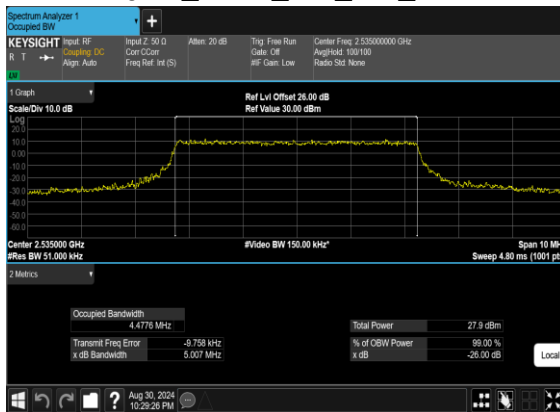
N7(5M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



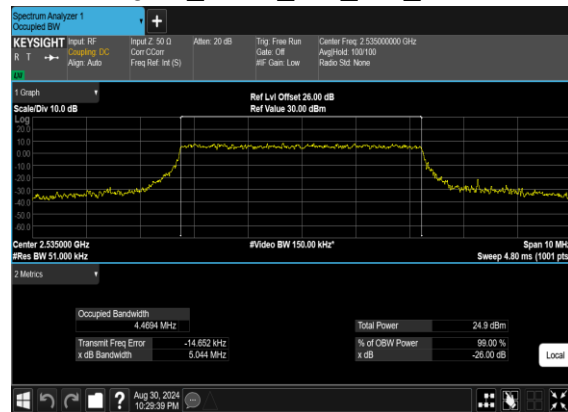
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QAM_Outer_Full_Mid_CH



N7(5M)_CP-OFDM_64
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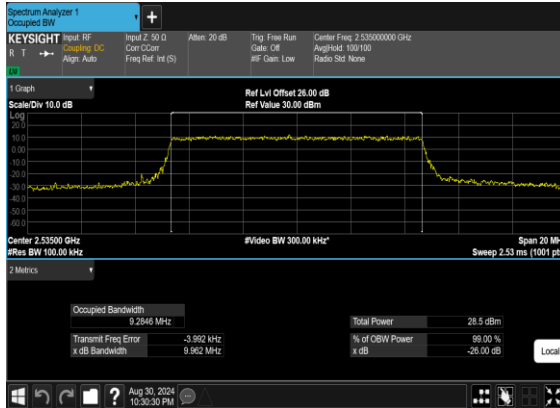


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QAM_Outer_Full_Mid_CH

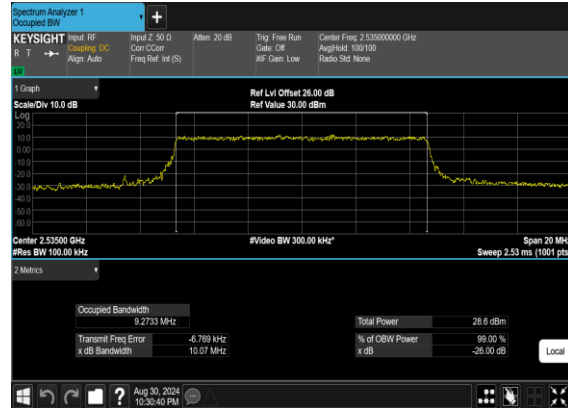




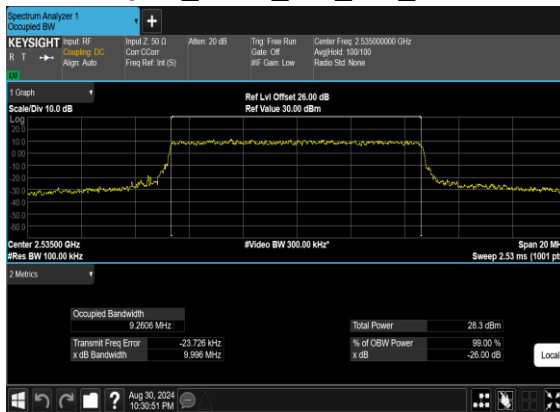
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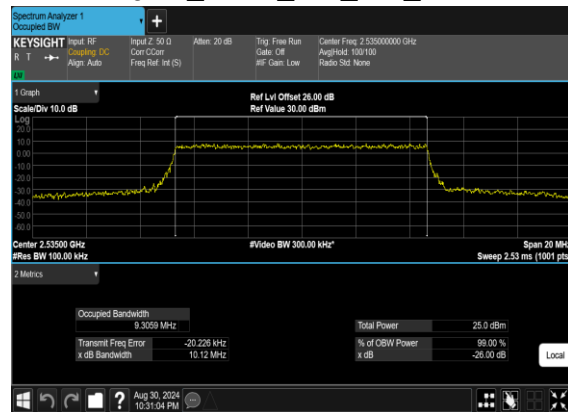
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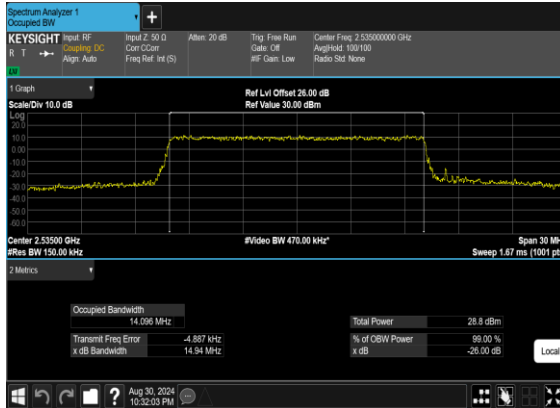


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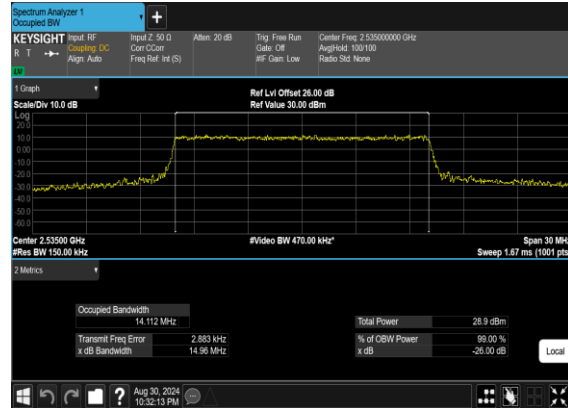




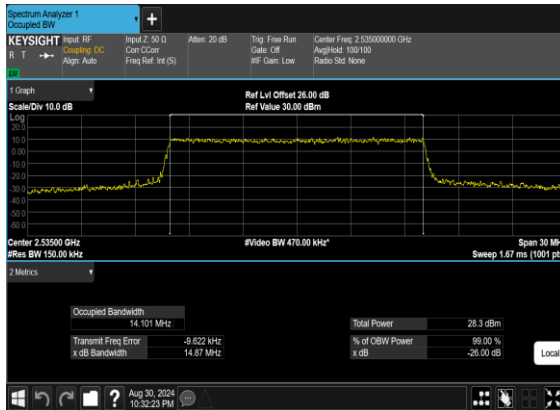
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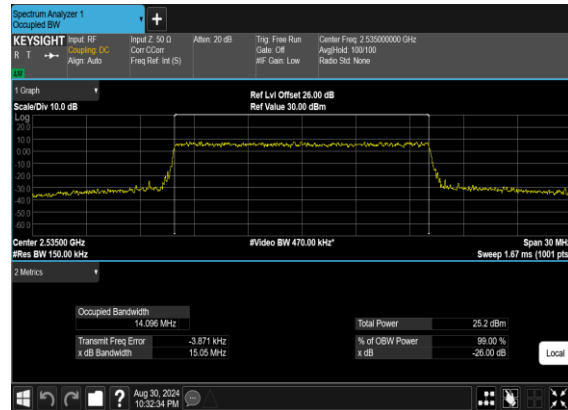
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QAM_Outer_Full_Mid_CH



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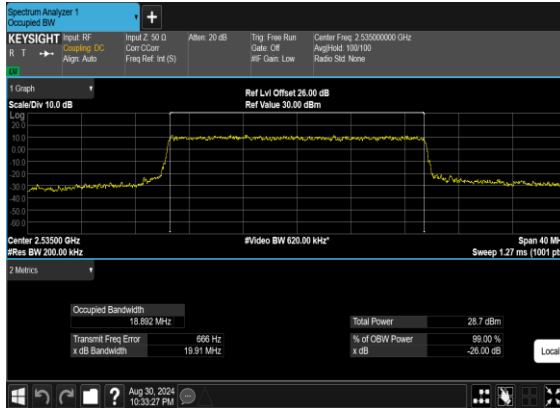


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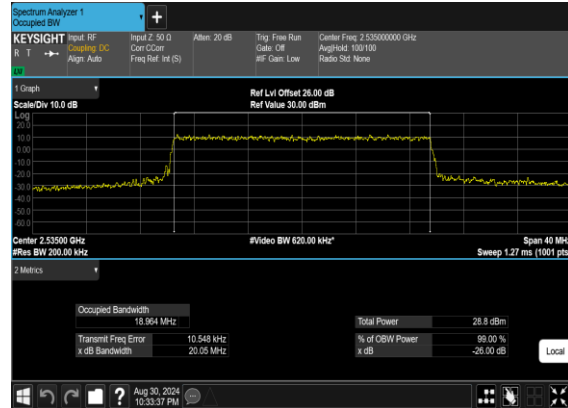




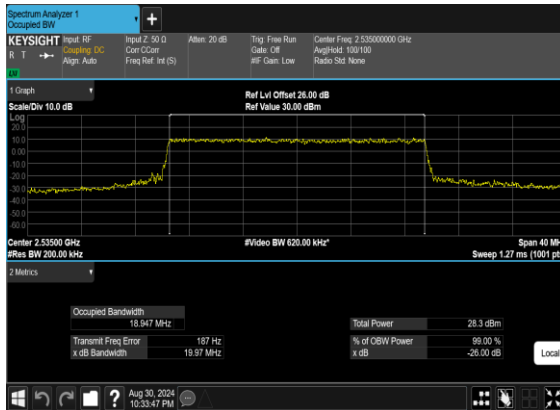
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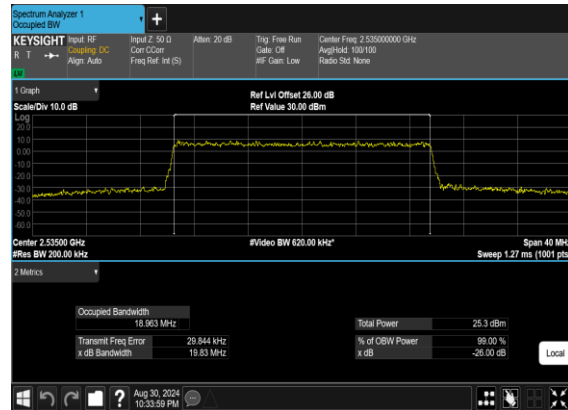
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QAM_Outer_Full_Mid_CH



N7(20M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

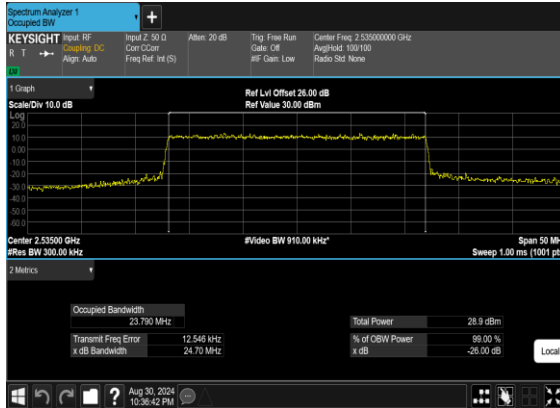


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QAM_Outer_Full_Mid_CH

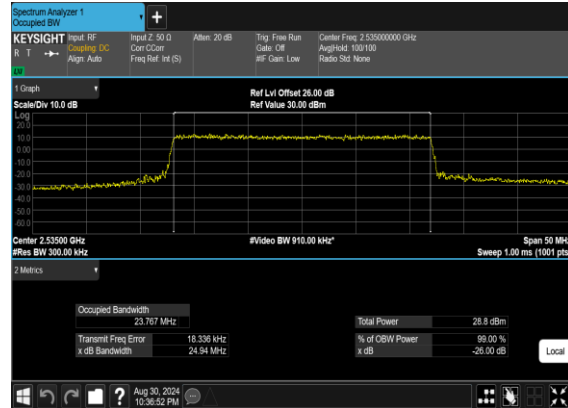




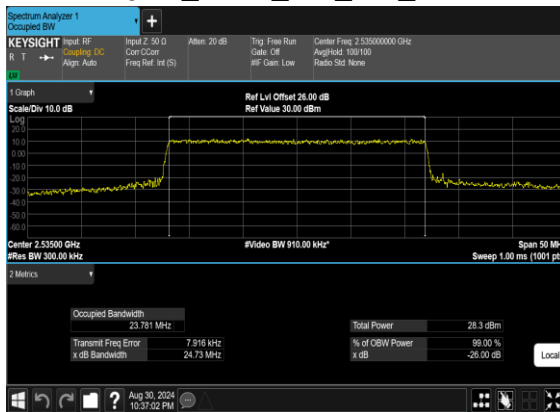
N7(25M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



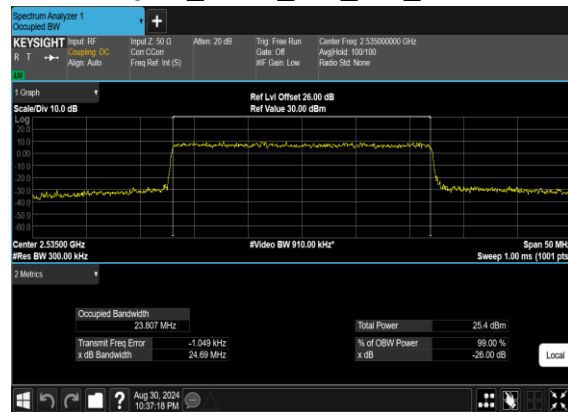
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QAM_Outer_Full_Mid_CH



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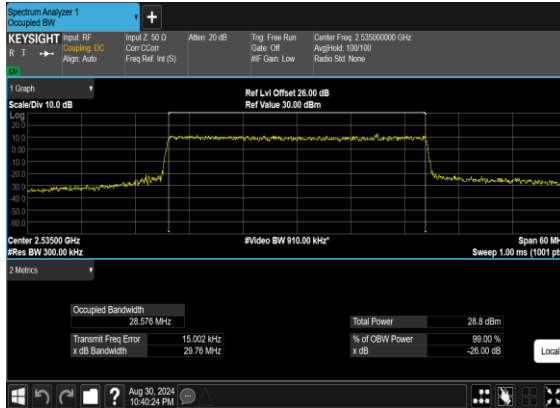


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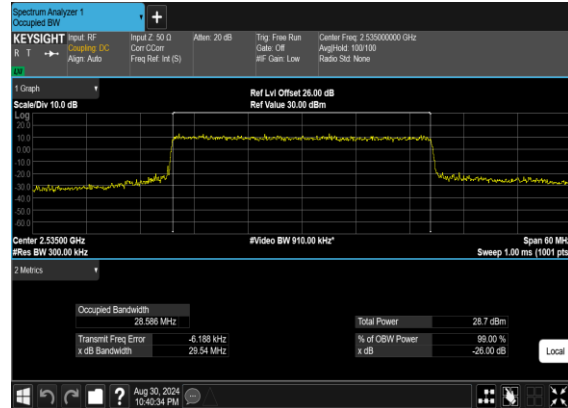




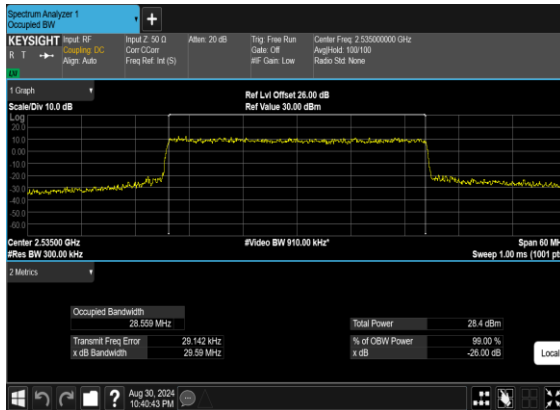
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OFDM_QPSK_Outer_Full_Mid_CH



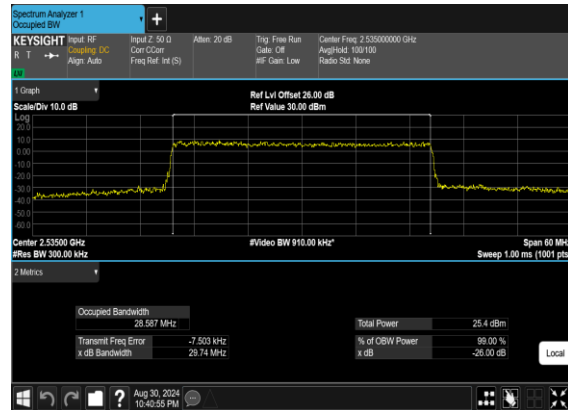
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QAM_Outer_Full_Mid_CH



N7(30M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

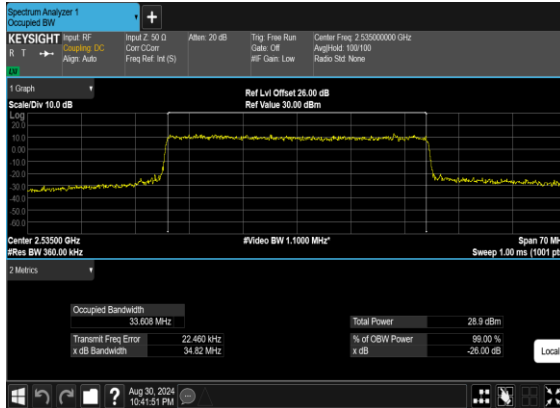


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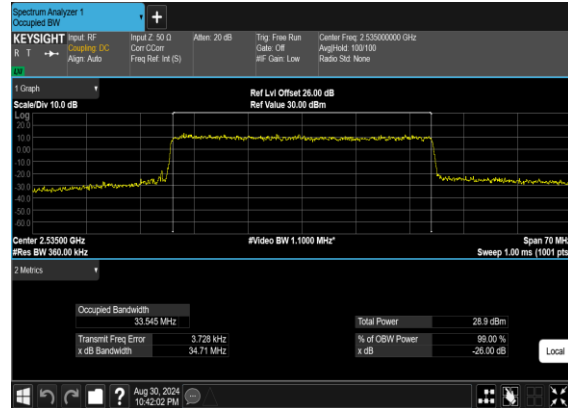




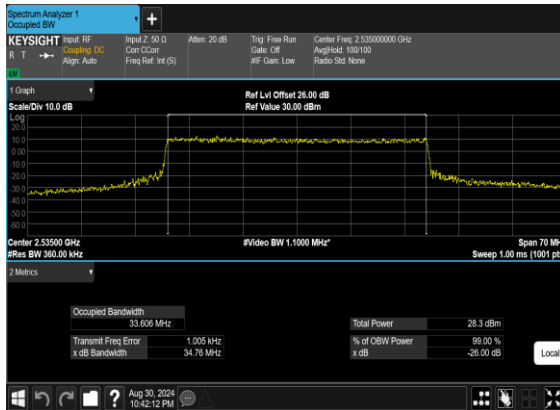
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OFDM_QPSK_Outer_Full_Mid_CH



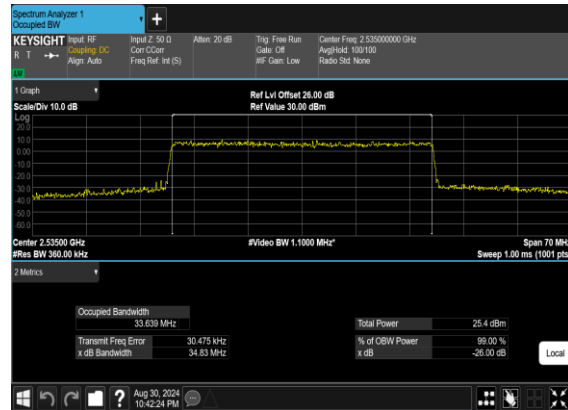
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QAM_Outer_Full_Mid_CH



N7(35M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

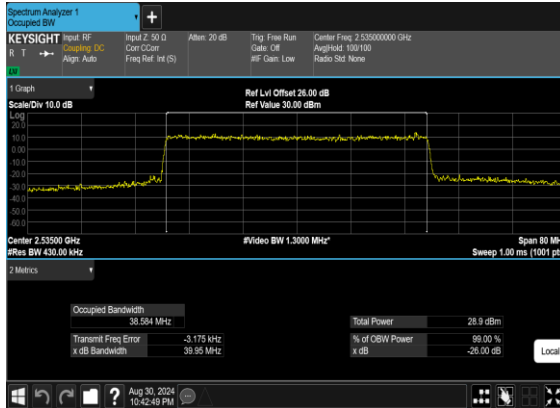


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QAM_Outer_Full_Mid_CH

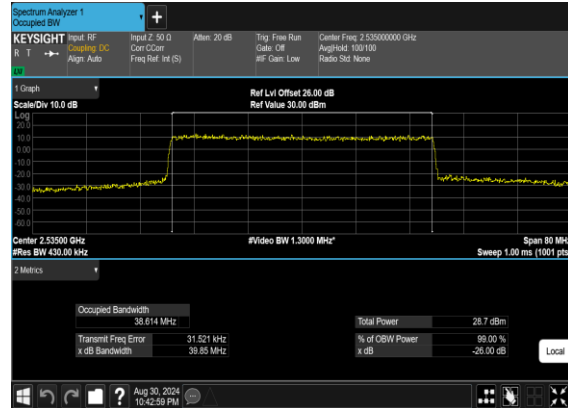




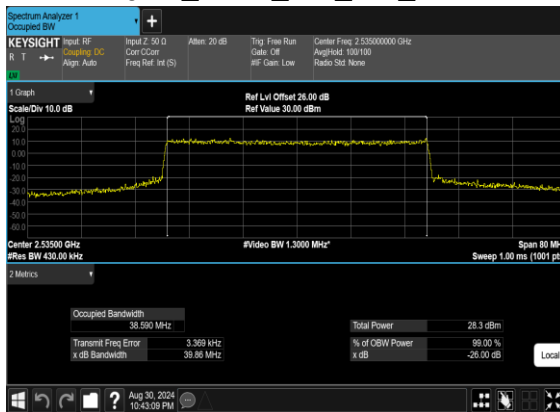
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OFDM_QPSK_Outer_Full_Mid_CH



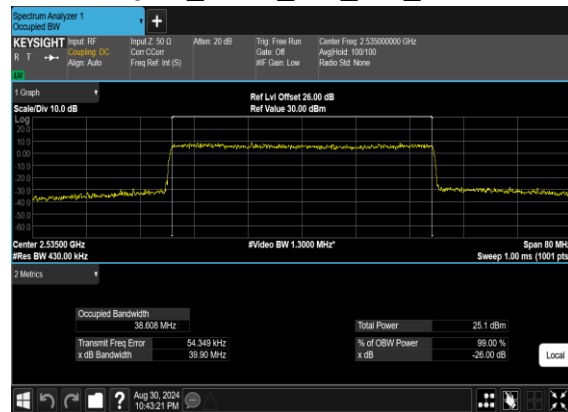
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QAM_Outer_Full_Mid_CH



N7(40M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

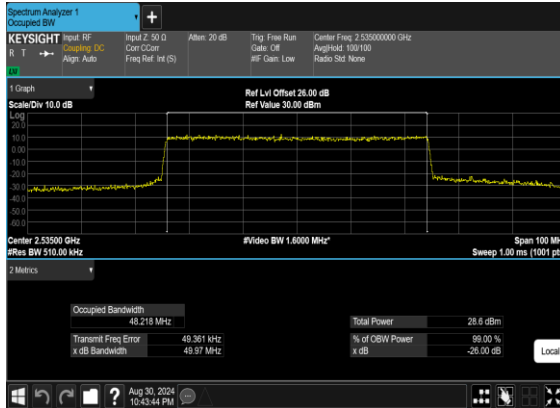


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QAM_Outer_Full_Mid_CH

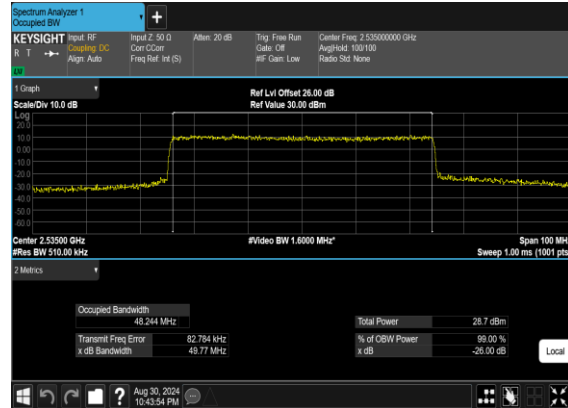




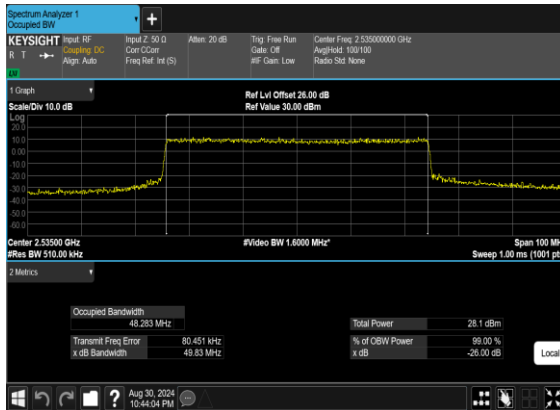
N7(50M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



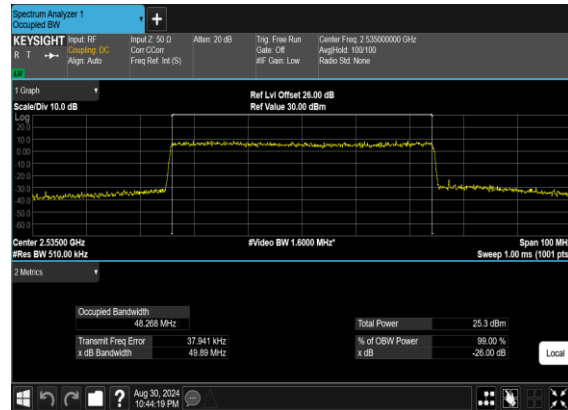
N7(50M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N7(50M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N7(50M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



**Conducted Spurious Emissions**

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
7	15	5	500500	2502.5	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	5	500500	2502.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	5	500500	2502.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	5	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	5	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	5	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	5	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	5	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	5	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	5	513500	2567.5	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	5	513500	2567.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	5	513500	2567.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	5	513500	2567.5	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	5	513500	2567.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	5	513500	2567.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	25	502500	2512.5	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	25	502500	2512.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	25	502500	2512.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	25	502500	2512.5	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	25	502500	2512.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	25	502500	2512.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	25	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	25	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	25	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	25	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	25	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	25	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	25	511500	2557.5	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	25	511500	2557.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	25	511500	2557.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	25	511500	2557.5	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	25	511500	2557.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	25	511500	2557.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	50	505000	2525.0	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	50	505000	2525.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	50	505000	2525.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	50	505000	2525.0	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	50	505000	2525.0	DFT-s-OFDM QPSK	1@0	see graph	PASS

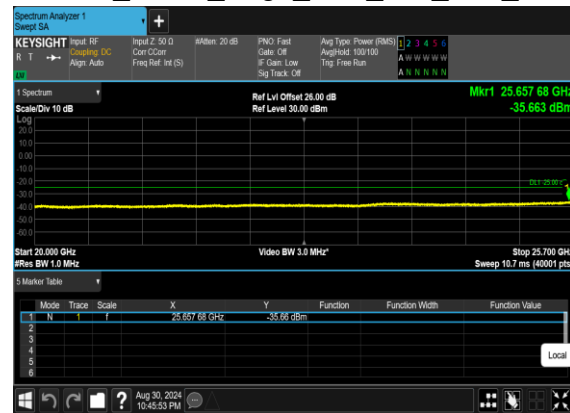


7	15	50	505000	2525.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	50	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	50	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	50	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	50	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	50	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	50	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	50	509000	2545.0	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	50	509000	2545.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	50	509000	2545.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	50	509000	2545.0	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	50	509000	2545.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	50	509000	2545.0	DFT-s-OFDM QPSK	1@0	see graph	PASS

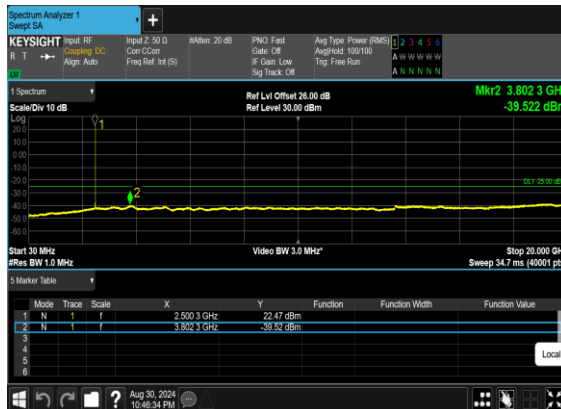
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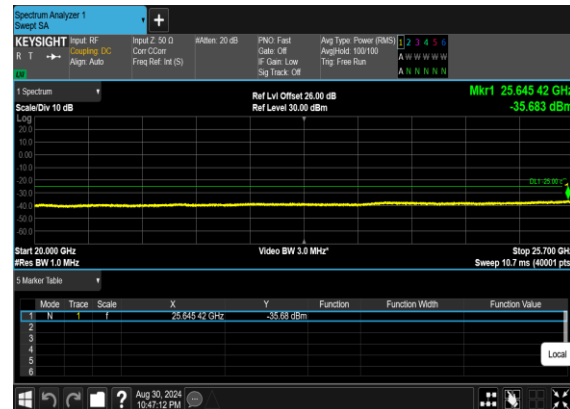
N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

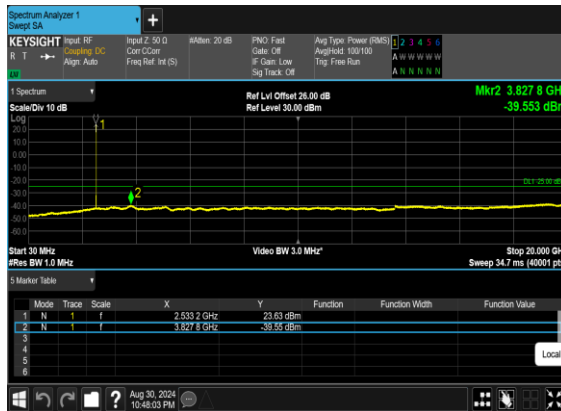


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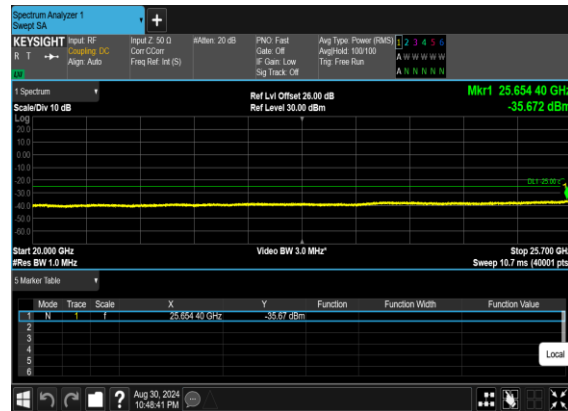




N7(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



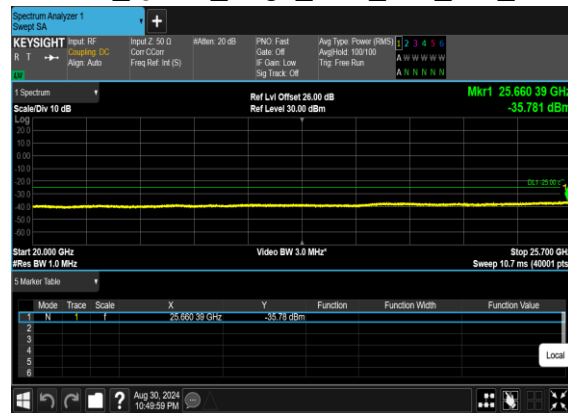
N7(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



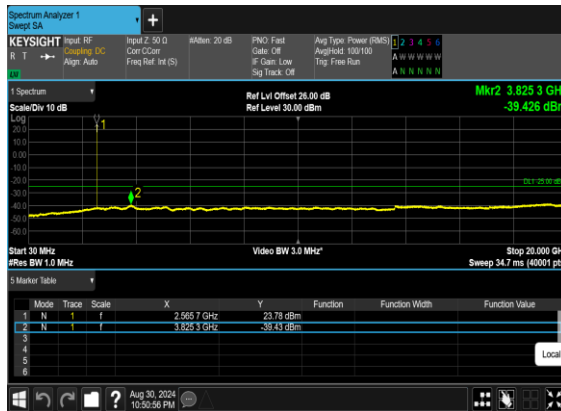
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OFDM_QPSK_Edge_1RB_Left_Mid_CH



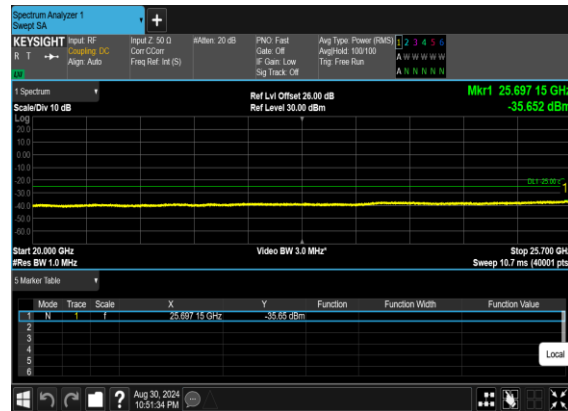
N7(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N7(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH

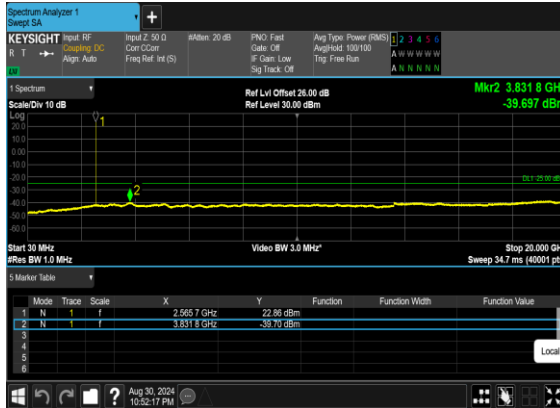


N7(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH

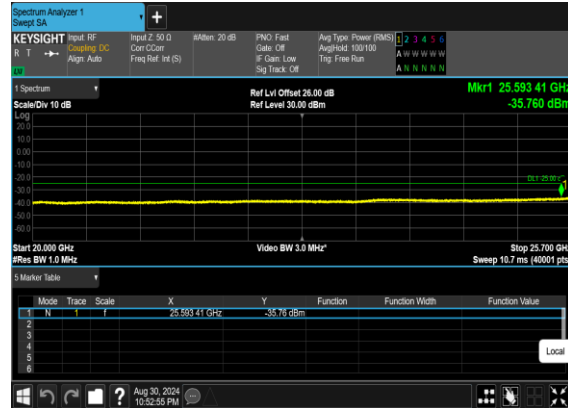




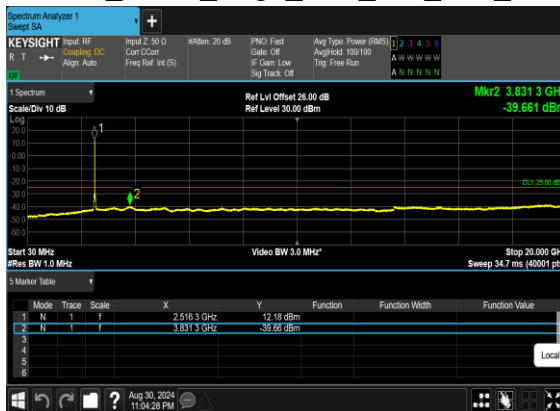
N7(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



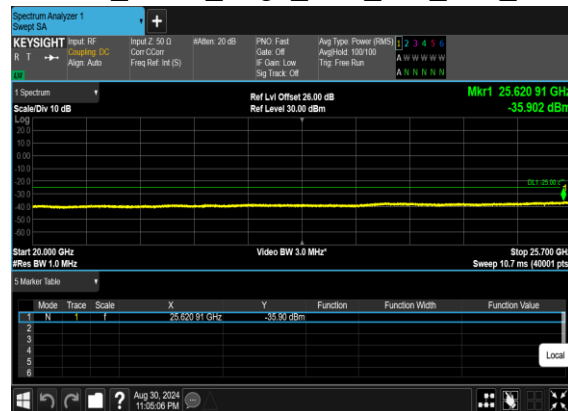
N7(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



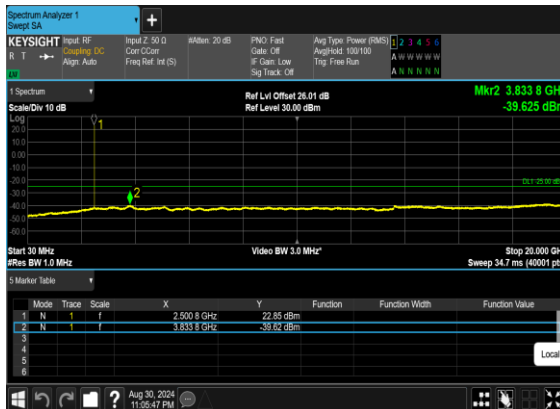
N7(25M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



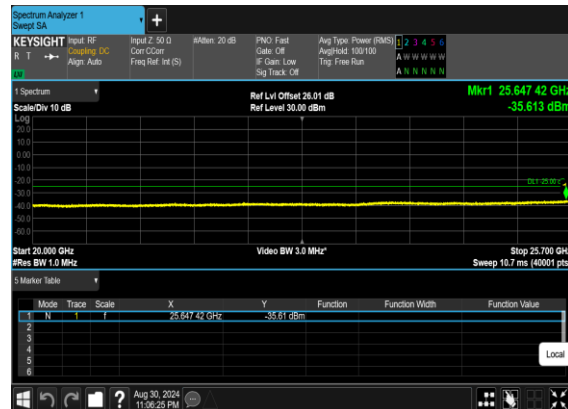
N7(25M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N7(25M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

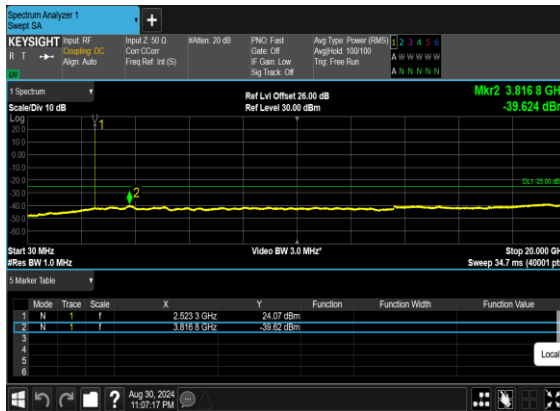


N7(25M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

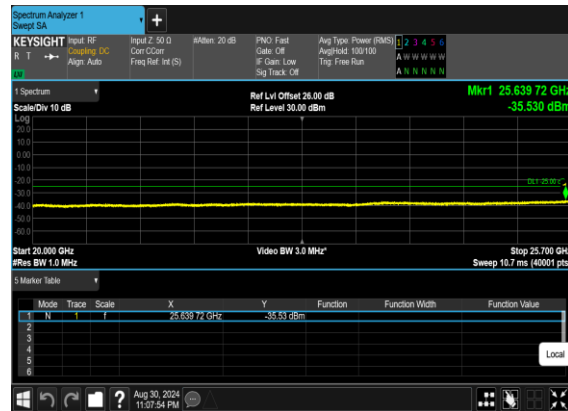




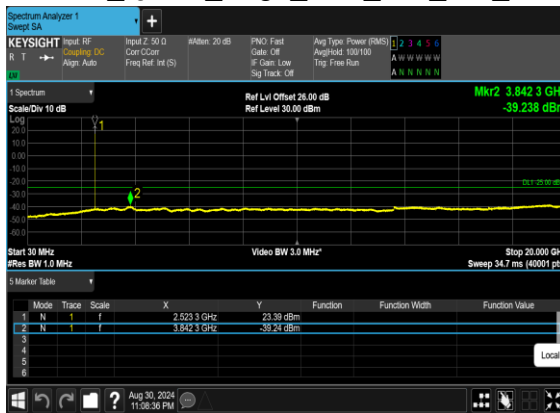
N7(25M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



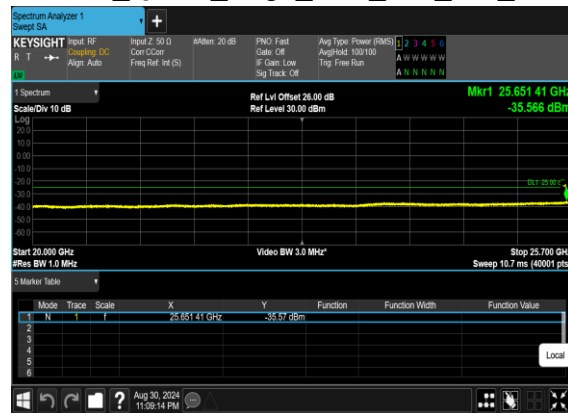
N7(25M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



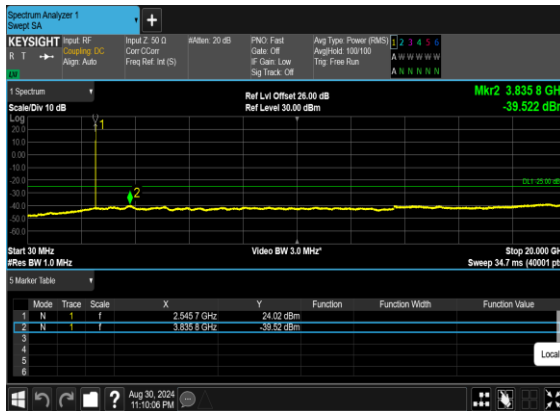
N7(25M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



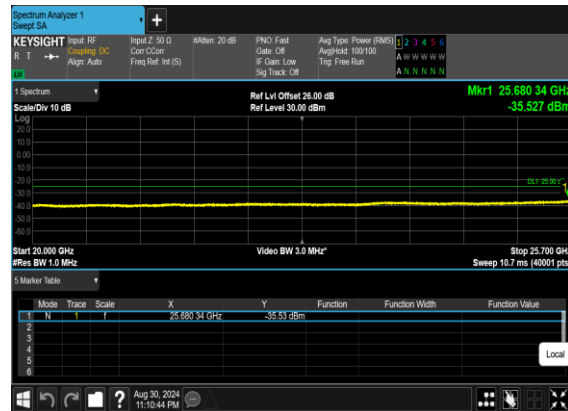
N7(25M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N7(25M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH

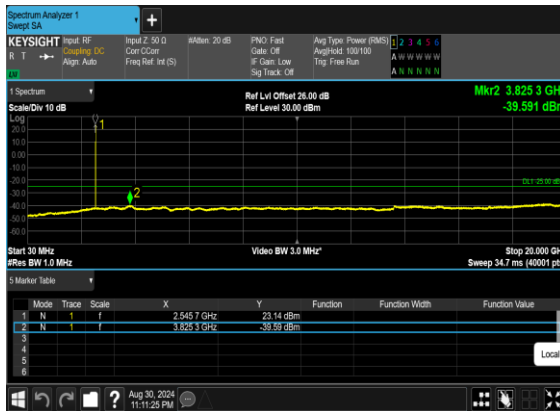


N7(25M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH

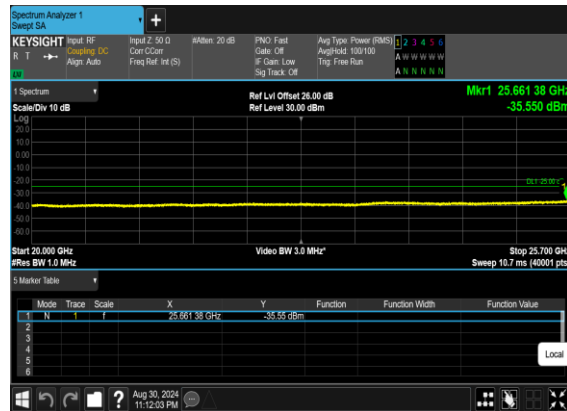




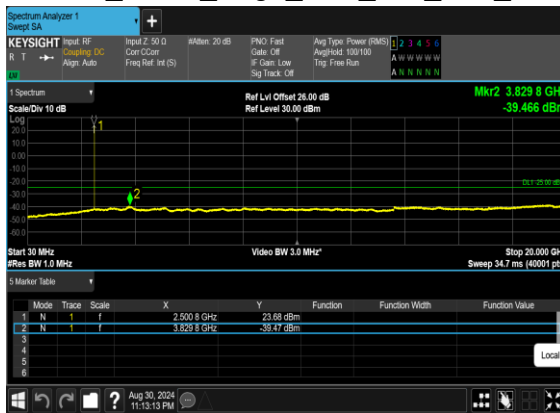
N7(25M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



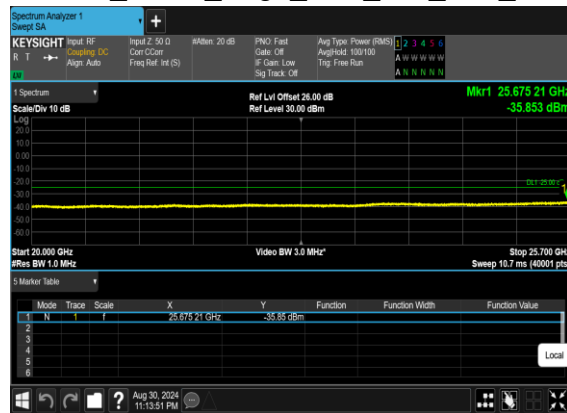
N7(25M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



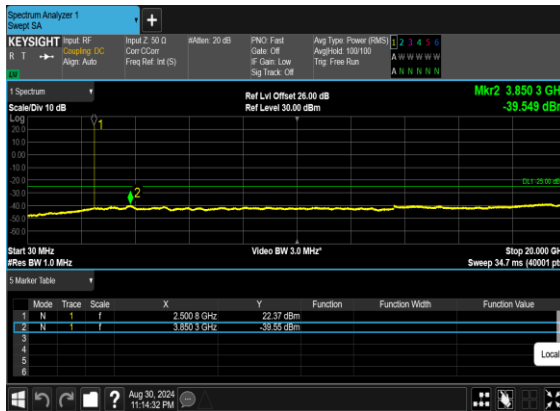
N7(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



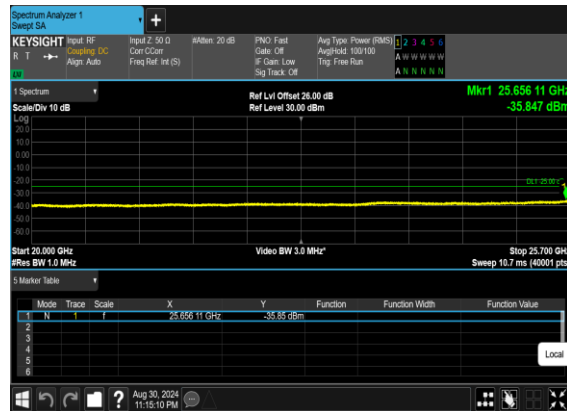
N7(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N7(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

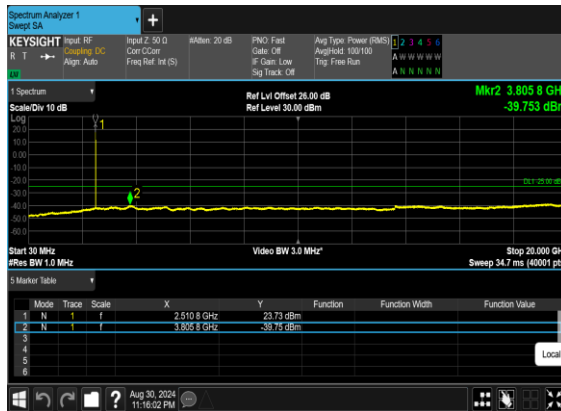


N7(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

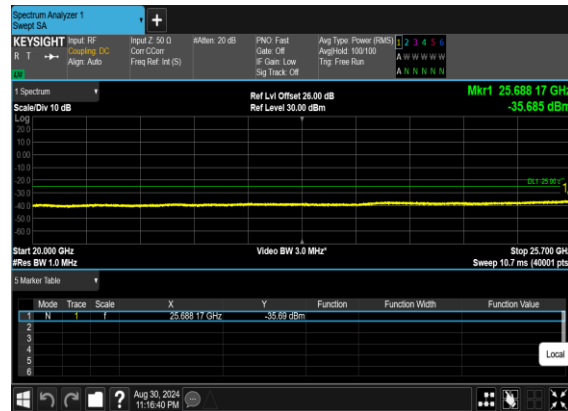




N7(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



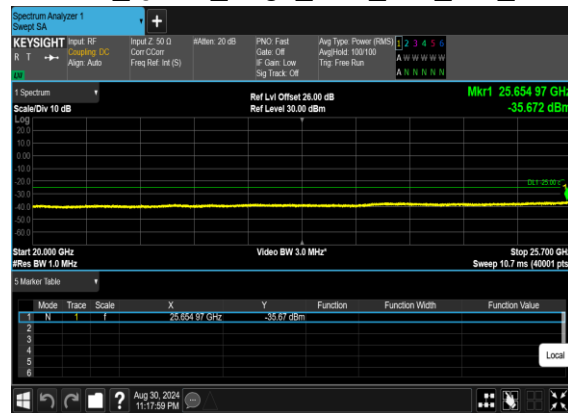
N7(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



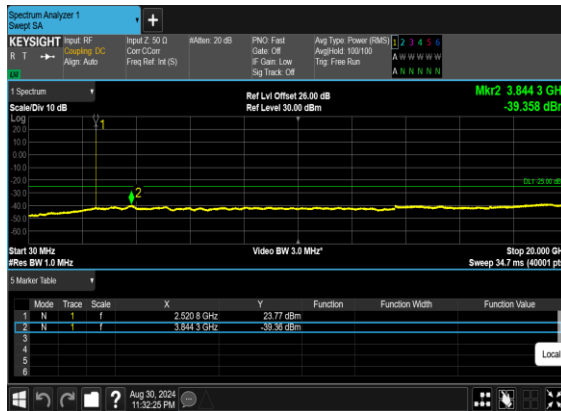
N7(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



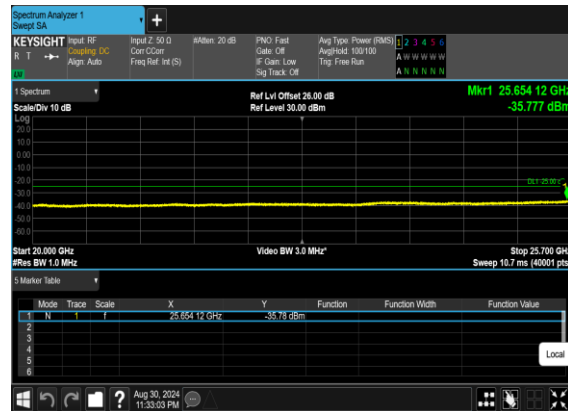
N7(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N7(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



N7(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH

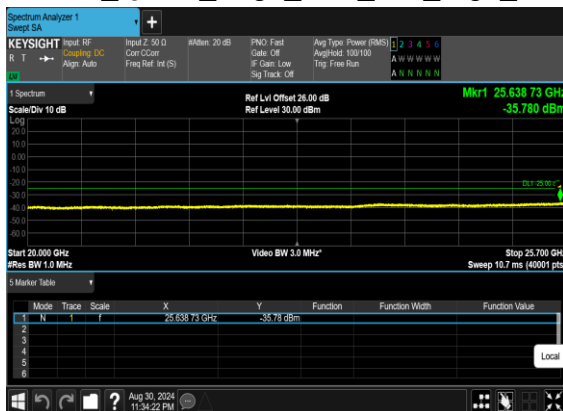




N7(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



N7(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH





Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
7	15	5	500500	2502.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	5	500500	2502.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
7	15	5	513500	2567.5	DFT-s-OFDM BPSK	1@24	see graph	PASS
7	15	5	513500	2567.5	DFT-s-OFDM QPSK	1@24	see graph	PASS
7	15	5	513500	2567.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
7	15	5	513500	2567.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
7	15	25	502500	2512.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	25	502500	2512.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	25	502500	2512.5	DFT-s-OFDM BPSK	128@0	see graph	PASS
7	15	25	502500	2512.5	DFT-s-OFDM QPSK	128@0	see graph	PASS
7	15	25	511500	2557.5	DFT-s-OFDM BPSK	1@132	see graph	PASS
7	15	25	511500	2557.5	DFT-s-OFDM QPSK	1@132	see graph	PASS
7	15	25	511500	2557.5	DFT-s-OFDM BPSK	128@0	see graph	PASS
7	15	25	511500	2557.5	DFT-s-OFDM QPSK	128@0	see graph	PASS
7	15	50	505000	2525.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	50	505000	2525.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	50	505000	2525.0	DFT-s-OFDM BPSK	270@0	see graph	PASS
7	15	50	505000	2525.0	DFT-s-OFDM QPSK	270@0	see graph	PASS
7	15	50	509000	2545.0	DFT-s-OFDM BPSK	1@269	see graph	PASS
7	15	50	509000	2545.0	DFT-s-OFDM QPSK	1@269	see graph	PASS
7	15	50	509000	2545.0	DFT-s-OFDM BPSK	270@0	see graph	PASS
7	15	50	509000	2545.0	DFT-s-OFDM QPSK	270@0	see graph	PASS