FCC RF Test Report

APPLICANT	: ASUSTeK COMPUTER INC.
EQUIPMENT	: ASUS Phone(Mobile Phone)
BRAND NAME	: ASUS
MODEL NAME	: ASUS_AI2201_F, ASUS_AI2201_D
FCC ID	: MSQAI2201
STANDARD	: 47 CFR Part 2, 22, 24, 27
CLASSIFICATION	: PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S)	: Apr. 01, 2022 ~ Jun. 17, 2022

We, Sporton International Inc. (ShenZhen), 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. (ShenZhen), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia

ACCREDITED Cert #5145.01

Sporton International Inc. (ShenZhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG230112J	Rev. 01	Initial issue of report	Jul. 28, 2022

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§22.913(a)(5)	Effective Radiated Power (5G NR n5, n26)	ERP < 7 Watt		
	§27.50(b)(10) §27.50(c)(10)	Effective Radiated Power (5G NR n12) (5G NR n13)	ERP < 3 Watt		
	§24.232(c)	Equivalent Isotropic Radiated Power (5G NR n2, n25)	EIRP < 2Watt		
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (5G NR n66)	EIRP < 1Watt		
3.5	§24.232(d)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §22.917(a) §24.238(a) §27.53(c)(2)(4) §27.53(h) §27.53(g)	Conducted Band Edge Measurement (5G NR n5, n26) (5G NR n2, n25) (5G NR n12) (5G NR n13) (5G NR n66)	< 43+10log10(P[Watts])	PASS	-
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(c)(2) §27.53(h) §27.53(g)	Conducted Spurious Emission (5G NR n5, n26) (5G NR n2, n25) (5G NR n12) (5G NR n13) (5G NR n66)	< 43+10log10(P[Watts])	PASS	-
3.9	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22	PASS	-
	§24.235 §27.54		Within Authorized Band		
4.4	§2.1053 §22.917(a) §24.238(a) §27.53(c)(2) §27.53(f) §27.53(h) §27.53(g)	Radiated Spurious Emission (5G NR n5, n26) (5G NR n2, n25) (5G NR n12) (5G NR n13) (5G NR n66)	< 43+10log$_{10}$(P[Watts])	PASS	Under limit 4.29 dB at 1560.000 MHz

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Applicant

ASUSTeK COMPUTER INC.
1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan

1.2 Manufacturer

ASUSTeK COMPUTER INC.
1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	ASUS Phone(Mobile Phone)
Brand Name	ASUS
Model Name	ASUS_AI2201_F, ASUS_AI2201_D
FCC ID	MSQAI2201
IMEI Code	Conducted : 359157510101814/359157510101822 Radiation : 353700810106011/353700810106029
HW Version	R3.0
SW Version	Android 12
EUT Stage	Identical Prototype

Remark: Only 5G NR n2/n5/n12/n13/n25/n26/n66 are tested in this report, all the other RF bands are tested in the other reports separately.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n5 : 824 MHz ~ 849 MHz 5G NR n12 : 699 MHz ~ 716 MHz 5G NR n13 : 777 MHz ~ 787 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n26 : 824 MHz ~ 849 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz
Rx Frequency	5G NR n2 : 1930 MHz ~ 1990 MHz 5G NR n5 : 869 MHz ~ 894 MHz 5G NR n12: 729 MHz ~ 746 MHz 5G NR n13 : 746 MHz ~ 756 MHz 5G NR n25 : 1930 MHz ~ 1995 MHz 5G NR n26 : 869 MHz ~ 894 MHz 5G NR n66 : 2110 MHz~ 2200 MHz
SCS	15kHz
Bandwidth	n2, n5, n25, n26: 5/10/15/20MHz n12: 5/10/15MHz n13: 5/10MHz n66: 5/10/15/20/40MHz
Antenna Gain	**<Ant. 0>:** n5: -2.58 dBi n12: -1.88 dBi n13: -3.89 dBi n26: -2.58 dBi **<Ant. 1>:** n2: -0.35 dBi n25: -0.35 dBi n66: 1.37 dBi **<Ant. 2>:** n2: -5.45 dBi n5: -5.54 dBi n12: -5.36 dBi n13: -5.36 dBi n25: -5.45 dBi n26: -5.54 dBi n66: -6.50 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 of 5G NR n5/n12/n13/n26 of Ant.0 and n2/n25/n66 of Ant.1 are shown in the report.
2. 5G NR Band supports SA (n2/n5/n12/n66/n13/n25/n26) and NSA mode (n2/n5/n66). According to the maximum power between SA and NSA mode, SA covers NSA mode for n2/n5/n66.
3. All the supported ENDC combinations are verified conducted power, only the ENDC combination with highest power are shown in the report.
4. The EN-DC mode combination could be referred to the product spec.

All the test were performed by SKU 2

Sample Information		
SKU	SKU 1	SKU 2
Build Stage	PR	
Config.	WW-High (with LGF)	WW-High (with PMOLED)
RF module board	WW-High(Entry)	WW-PRO
LCD + Touch front frame	AI2201 FRONT CASE ASSY WW	AI2201 FRONT CASE ASSY WW
DDR	16G (Samsung) LPDDR5 SAMSUNG/K3LK6K60BM-BGCP	18G(HYNIX) LPDDR5 HYNIX/H58GU6MK6HX042
UFS	512G (HYNIX) HYNIX HN8T25DEHKX077	512G (HYNIX) HYNIX HN8T25DEHKX077
MB	AI2201_MB	AI2201_MB
Battery	SCUD/C21P2101	SWD/C21P2101
Rear Camera 50+13M	PRIMAX/50-704JQASC8	TRIPLEWIN/CASAF-001A
Front Camera 12M	TSPRECISION/TNBF1166	LUXVISIONS/FRA-00000658
Rear Camera 5M	SHINE PHOTICS/BF515B	TSPRECISION/O5F9323 VERA1
PCB	COMPEQ	COMPEQ
CPU	QUALCOMM MPSP1518B / SM-8475-1 MPSP1518B ES	QUALCOMM MPSP1518B / SM-8475-1 MPSP1518B ES

1.5 Modification of EUT

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

1.6 Maximum ERP/EIRP Power and Emission Designator

5G NR n2		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	1852.5 ~ 1907.5	0.2704	4M48G7D	0.2158	4M48W7D
10	1855.0 ~ 1905.0	0.2685	9M29G7D	0.2193	9M29W7D
15	1857.5 ~ 1902.5	0.2780	14M1G7D	0.2234	14M1W7D
20	1860.0 ~ 1900.0	0.2818	18M9G7D	0.2239	19M0W7D

5G NR n5		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	826.5 ~ 846.5	0.1023	4M48G7D	0.0798	4M50W7D
10	829.0 ~ 844.0	0.0984	9M26G7D	0.0791	9M27W7D
15	831.5 ~ 841.5	0.1002	14M1G7D	0.0804	14M1W7D
20	834.0 ~ 839.0	0.1009	18M9G7D	0.0800	18M9W7D

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	0.1153	4M48G7D	0.0904	4M48W7D
10	704.0~ 711.0	0.1140	9M26G7D	0.0902	9M26W7D
15	706.5 ~ 708.5	0.1114	14M1G7D	0.0887	14M1W7D

5G NR n13		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	779.5 ~ 784.5	0.0711	4M48G7D	0.0561	4M48W7D
10	782	0.0698	9M25G7D	0.0561	9M27W7D

5G NR n25		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	1852.5 ~ 1912.5	0.2877	4M48G7D	0.2286	4M48W7D
10	1855.0 ~ 1910.0	0.2773	9M29G7D	0.2259	9M29W7D
15	1857.5 ~ 1907.5	0.2838	14M1G7D	0.2301	14M1W7D
20	1860.0 ~ 1905.0	0.2761	18M9G7D	0.2265	19M0W7D

5G NR n26		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	826.5 ~ 846.5	0.0998	4M48G7D	0.0789	4M50W7D
10	829.0 ~ 844.0	0.0986	9M26G7D	0.0787	9M27W7D
15	831.5 ~ 841.5	0.1026	14M1G7D	0.0826	14M1W7D
20	834.0 ~ 839.0	0.1016	18M9G7D	0.0818	18M9W7D

5G NR n66		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	1712.5 ~ 1777.5	0.4217	4M49G7D	0.3311	4M49W7D
10	1715.0 ~ 1775.0	0.4121	9M28G7D	0.3289	9M28W7D
15	1717.5 ~ 1772.5	0.4315	14M1G7D	0.3404	14M1W7D
20	1720.0 ~ 1770.0	0.4256	18M9G7D	0.3373	19M0W7D
40	1730.0 ~ 1760.0	0.4227	38M6G7D	0.3327	38M6W7D

Note:

1. All modulations have been tested, only the worst test results of PSK & QAM are shown in the report.
2. 5G NR n26 overlaps the entire frequency range of 5G NR n5. Therefore, the test results provided in this report covers 5G NR n5 and the portion of 5G NR n26 subject to Part 22.
3. 5G NR n25 overlaps the entire frequency range of 5G NR n2. Therefore, the test results provided in this report covers 5G NR n25 as well as 5G NR n2.

1.7 Testing Location

Sporton International Inc. (Shenzhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (Shenzhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	TH01-SZ	CN1256	421272

Test Firm	Sporton International Inc. (Shenzhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	03CH04-SZ	CN1256	421272

1.8 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH04-SZ	AUDIX	E3	6.2009-8-24

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 2, 22, 24, 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 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.

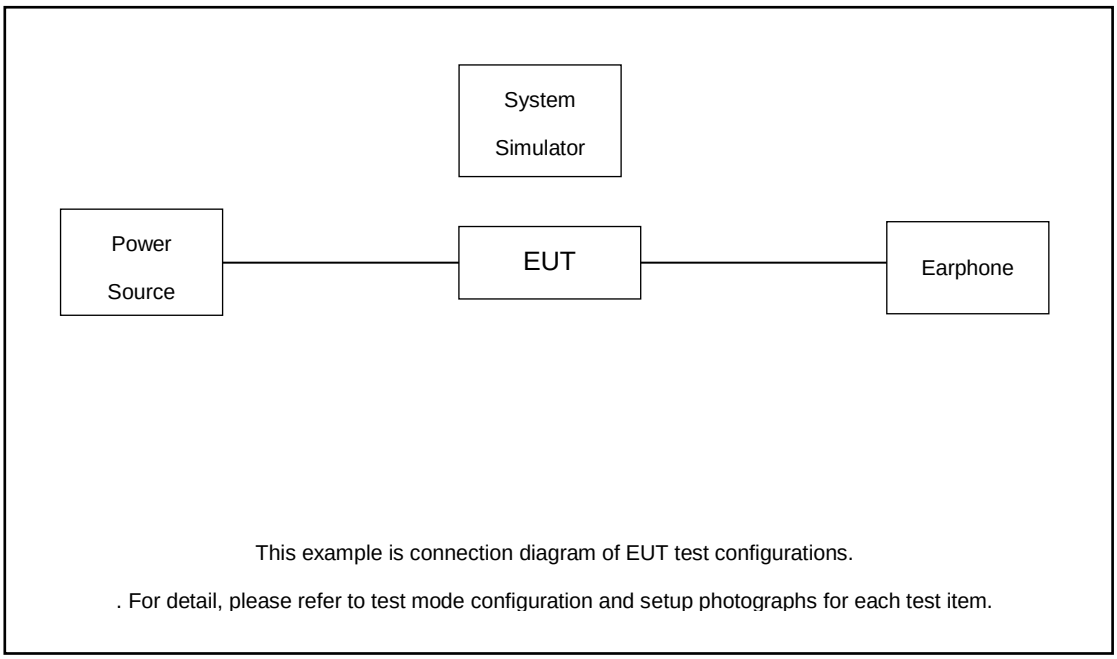
	X Plane	Y Plane	Z Plane
Orthogonal Planes of EUT			

Test Items	5G NR	Bandwidth (MHz)							Modulation					RB #		Test Channel		
		5	10	15	20	25	30	40	PI/2 BPSK	QPSK	16QAM	64QAM	256 QAM	1	Full	L	M	H
Max. Output Power	n2	v	v	v	v	-	-	-	v	v	v	v	v	v	v	v	v	v
	n5	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
	n13	v	v	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n25	v	v	v	v	-	-	-	v	v	v	v	v	v	v	v	v	v
	n26	v	v	v	v	-	-	-	v	v	v	v	v	v	v	v	v	v
	n66	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	n12			v	-	-	-	-	v	v				v	v	v	v	v
	n13		v	-	-	-	-	-						v	v	v	v	v
	n25				v	-	-	-	v	v				v	v	v	v	v
	n26				v	-	-	-	v	v				v	v	v	v	v
	n66				v	-	-		v	v				v	v	v	v	v

Test Items	5G NR	Bandwidth (MHz)							Modulation					RB #		Test Channel		
		5	10	15	20	25	30	40	PI/2 BPSK	QPSK	16QAM	64QAM	256 QAM	1	Full	L	M	H
26dB and 99% Bandwidth	n12	v	v	v	-	-	-	-	v	v	v	v	v		v		v	
	n13	v	v	-	-	-	-	-	v	v	v	v	v					
	n25	v	v	v	v	-	-	-	v	v	v	v	v		v		v	
	n26	v	v	v	v	-	-	-	v	v	v	v	v		v		v	
	n66	v	v	v	v	-	-	v	v	v	v	v	v		v		v	
Conducted Band Edge	n12	v	v	v	-	-	-	-	v	v				v	v	v		v
	n13	v	v	-	-	-	-	-	v	v				v	v	v		v
	n25	v	v		v	-	-	-	v	v				v	v	v		v
	n26	v	v		v	-	-	-	v	v				v	v	v		v
	n66	v		v		-	-	v	v	v				v	v	v		v
Conducted Spurious Emission	n12	v	v	v	-	-	-	-	v	v				v		v	v	v
	n13	v	v	-	-	-	-	-	v	v				v		v	v	v
	n25	v	v		v	-	-	-	v	v				v		v	v	v
	n26	v	v		v	-	-	-	v	v				v		v	v	v
	n66	v		v		-	-	v	v	v				v		v	v	v
Frequency Stability	n12			v	-	-	-	-		v					v		v	
	n13		v	-	-	-	-	-		v					v		v	
	n25				v	-	-	-		v					v		v	
	n26				v	-	-	-		v					v		v	
	n66				v	-	-			v					v		v	

Test Items	5G NR	Bandwidth (MHz)							Modulation					RB #		Test Channel		
		5	10	15	20	25	30	40	PI/2 BPSK	QPSK	16QAM	64QAM	256 QAM	1	Full	L	M	H
E.R.P / E.I.R.P	n2	v	v	v	v	-	-	-	v	v	v	v	v	v	v	v	v	v
	n5	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
	n13	v	v	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n25	v	v	v	v	-	-	-	v	v	v	v	v	v	v	v	v	v
	n26	v	v	v	v	-	-	-	v	v	v	v	v	v	v	v	v	v
	n66	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v	v	v
Radiated Spurious Emission	n12	Worst Case														v	v	v
	n13	Worst Case														v	v	v
	n25	Worst Case														v	v	v
	n26	Worst Case														v	v	v
	n66	Worst Case														v	v	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. Based on engineering evaluation, only the worst modulation test results are shown in the report. 5. Frequency Stability：Normal Voltage = 7.78V；Low Voltage =7.3V；High Voltage =8.7V																	

2.2 Connection Diagram of Test System



This example is connection diagram of EUT test configurations.

. For detail, please refer to test mode configuration and setup photographs for each test item.

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.	Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded,1.8m

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 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.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 7.3 dB attenuator.

Example :

Offset(dB) = RF cable loss(dB).

= 7.3 (dB)

2.5 Frequency List of Low/Middle/High Channels

5G NR n2 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	388000	392000	396000
	Frequency	1860	1880	1900
15	Channel	387500	392000	396500
	Frequency	1857.5	1880	1902.5
10	Channel	387000	392000	397000
	Frequency	1855	1880	1905
5	Channel	386500	392000	397500
	Frequency	1852.5	1880	1907.5

5G NR n5 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	175800	176300	176800
	Frequency	834	836.5	839
15	Channel	175300	176300	177300
	Frequency	831.5	836.5	841.5
10	Channel	174800	176300	177800
	Frequency	829	836.5	844
5	Channel	174300	176300	178300
	Frequency	826.5	836.5	846.5

5G NR n12 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
15	Channel	147300	147500	147700
	Frequency	706.5	707.5	708.5
10	Channel	146800	147500	148200
	Frequency	704	707.5	711
5	Channel	146300	147500	148700
	Frequency	701.5	707.5	713.5

5G NR n13 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	149700	150200	150700
	Frequency	779.5	782	784.5
5	Channel		150200	
	Frequency		782	

5G NR n25 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	388000	392500	397000
	Frequency	1860	1882.5	1905
15	Channel	387500	392500	397500
	Frequency	1857.5	1882.5	1907.5
10	Channel	387000	392500	398000
	Frequency	1855	1882.5	1910
5	Channel	386500	392500	398500
	Frequency	1852.5	1882.5	1912.5

5G NR n26 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	175800	176300	176800
	Frequency	834	836.5	839
15	Channel	175300	176300	177300
	Frequency	831.5	836.5	841.5
10	Channel	174800	176300	177800
	Frequency	829	836.5	844
5	Channel	174300	176300	178300
	Frequency	826.5	836.5	846.5

5G NR n66 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
40	Channel	426000	429000	432000
	Frequency	1730	1745	1760
20	Channel	424000	429000	434000
	Frequency	1720	1745	1770
15	Channel	423500	429000	434500
	Frequency	1717.5	1745	1772.5
10	Channel	423000	429000	435000
	Frequency	1715	1745	1775
5	Channel	422500	429000	435500
	Frequency	1712.5	1745	1777.5

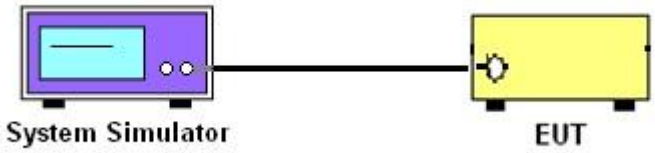
3 Conducted Test Items

3.1 Measuring Instruments

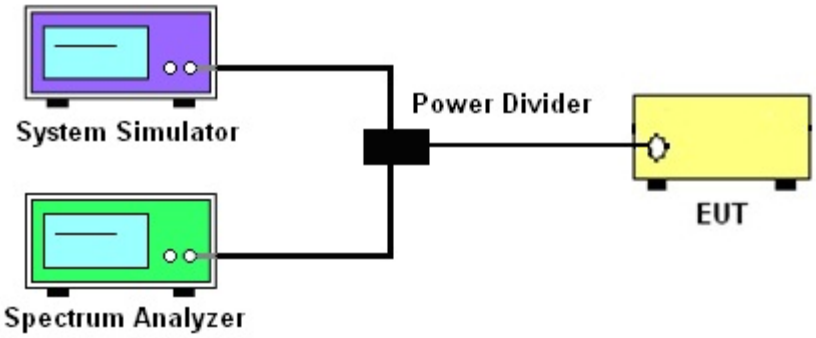
See list of measuring instruments of this test report.

3.2 Test Setup

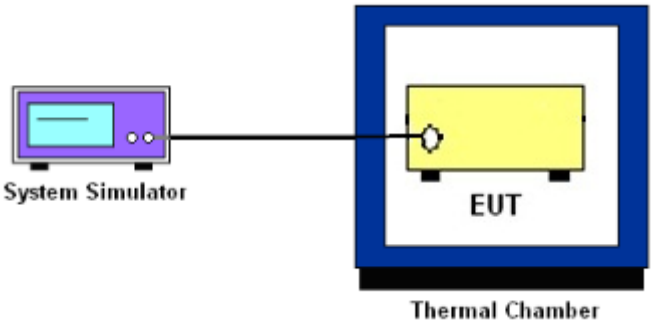
3.2.1 Conducted Output Power



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 7 Watts for 5G NR n5 and n26.

The ERP of mobile transmitters must not exceed 3 Watts for 5G NR n12 and n13.

The EIRP of mobile transmitters must not exceed 2 Watts for 5G NR n2 and n25.

The EIRP of mobile transmitters must not exceed 1 Watts for 5G NR n66.

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

22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is 43 + $10\log_{10}$(P[Watts]) dB below the transmitter power P(Watts) in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is 43 + $10\log_{10}$(P[Watts]) dB below the transmitter power P(Watts) in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53 (h)

For operations in the 1710 – 1755 MHz,1755-1780 MHz band, the FCC limit is 43 + $10\log_{10}$(P[Watts]) dB below the transmitter power P(Watts) in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53 (g)

For operations in the 600MHz band and 698 -746 MHz band, the FCC limit is 43 + 10log10(P[Watts]) dB below the transmitter power P(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 (c)

For operations in the 776-788 MHz band, the FCC limit is 43 + $10\log_{10}$(P[Watts]) dB below the transmitter power P(Watts) in a 100 kHz bandwidth. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed. In addition, the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least 65 + 10 log10 p(watts), dB, for mobile and portable equipment.

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 >= 1% 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.
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 + 10log(P)dB below the transmitter power P(Watts)
   = P(W)- [43 + 10log(P)] (dB)
   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm.
9. 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.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10^{th} 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 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.

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. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.

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.

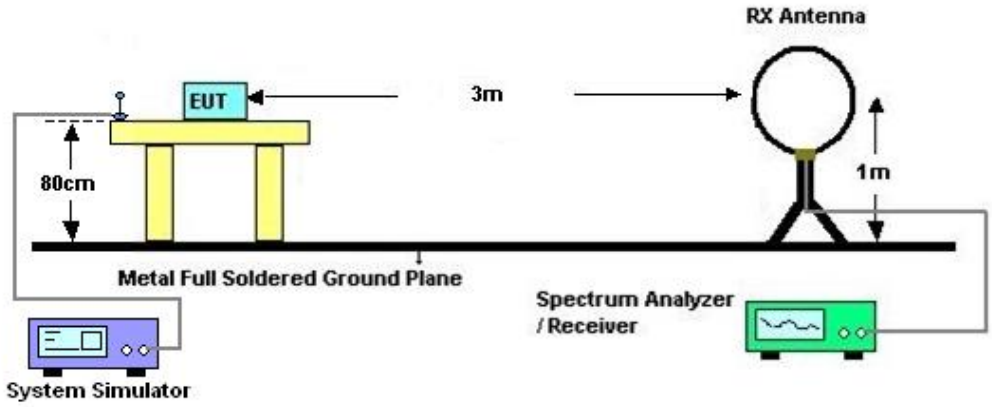
4 Radiated Test Items

4.1 Measuring Instruments

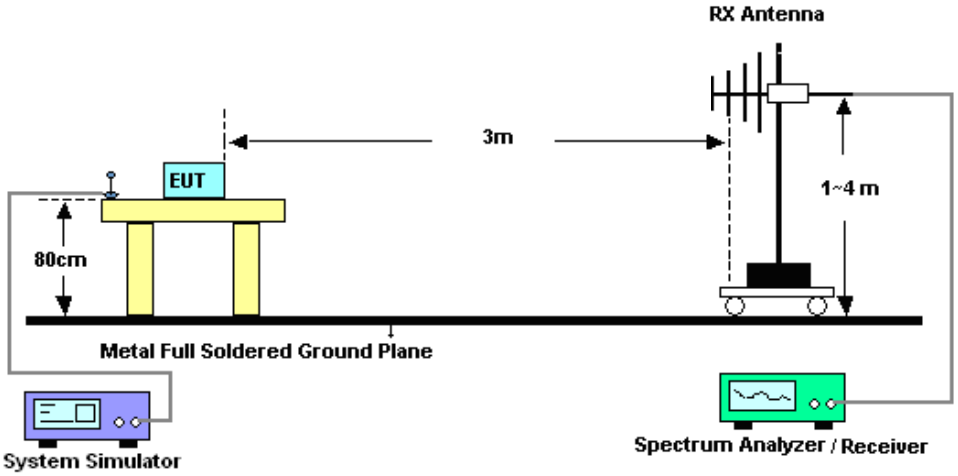
See list of measuring instruments of this test report.

4.2 Test Setup

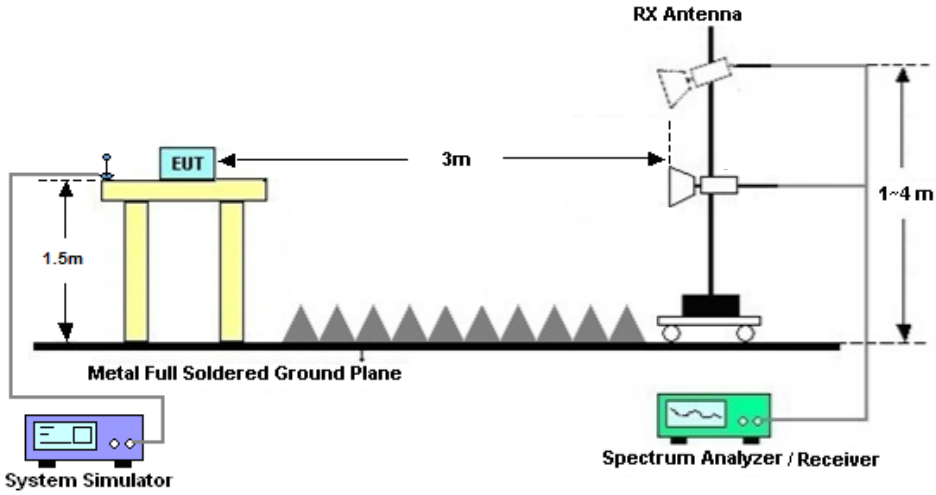
4.2.1 For radiated test below 30MHz



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 N13

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to −70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and −80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

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 (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
11. ERP (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 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 08, 2021	Apr. 01, 2022~ Jun. 17, 2022	Apr. 07, 2022	Conducted (TH01-SZ)
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 07, 2022		Apr. 06, 2023	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04265	60.06.020.0077	0.4GHz~26.5GHz	Dec. 25, 2021	Apr. 01, 2022~ Jun. 17, 2022	Dec. 24, 2022	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 14, 2021	Apr. 01, 2022~ Jun. 17, 2022	Jul. 13, 2022	Conducted (TH01-SZ)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 22,2021	May 22, 2022~ May 24, 2022	Oct. 21,2022	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 20, 2021	May 22, 2022~ May 24, 2022	Jul. 19, 2022	Radiation (03CH04-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 22, 2020	May 22, 2022~ May 24, 2022	Jun. 21, 2022	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	Oct. 22,2021	May 22, 2022~ May 24, 2022	Oct. 21,2022	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1474	1GHz~18GHz	Jul. 15, 2021	May 22, 2022~ May 24, 2022	Jul. 14, 2022	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	9170#679	15GHz~40GHz	Jul. 25, 2021	May 22, 2022~ May 24, 2022	Jul. 24, 2022	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 22,2021	May 22, 2022~ May 24, 2022	Oct. 21,2022	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 22,2021	May 22, 2022~ May 24, 2022	Oct. 21,2022	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 20. 2021	May 22, 2022~ May 24, 2022	Jul. 19. 2022	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY53270156	500MHz~26.5GHz	Oct. 22,2021	May 22, 2022~ May 24, 2022	Oct. 21,2022	Radiation (03CH04-SZ)
AC Power Source	Chroma	61601	N/A	N/A	NCR	May 22, 2022~ May 24, 2022	NCR	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	May 22, 2022~ May 24, 2022	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	May 22, 2022~ May 24, 2022	NCR	Radiation (03CH04-SZ)

NCR: No Calibration Required

6 Uncertainty of Evaluation

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 Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.8 dB**

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.1 dB**

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.9 dB**

---------- THE END ----------

Appendix A. Test Results of Conducted Test

Test Engineer :	Jung Guo	**Temperature :**	24~26℃
		Relative Humidity :	50~53%

FR1 N2 (Ant1_Max Conducted Power)

Transmitter Conducted Output Power And EIRP, (G_T - L_C)= -0.35dBi

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
2	15	5	386500	1852.5	DFT-s-OFDM PI/2 BPSK	12@6	24.38	24.03	0.2529
2	15	5	386500	1852.5	DFT-s-OFDM PI/2 BPSK	1@1	24.41	24.06	0.2547
2	15	5	386500	1852.5	DFT-s-OFDM PI/2 BPSK	1@23	24.31	23.96	0.2489
2	15	5	386500	1852.5	DFT-s-OFDM QPSK	12@6	24.47	24.12	0.2582
2	15	5	386500	1852.5	DFT-s-OFDM QPSK	1@1	24.51	24.16	0.2606
2	15	5	386500	1852.5	DFT-s-OFDM QPSK	1@23	24.48	24.13	0.2588
2	15	5	386500	1852.5	DFT-s-OFDM 16 QAM	12@6	23.32	22.97	0.1982
2	15	5	386500	1852.5	DFT-s-OFDM 16 QAM	1@1	23.54	23.19	0.2084
2	15	5	386500	1852.5	DFT-s-OFDM 16 QAM	1@23	23.44	23.09	0.2037
2	15	5	386500	1852.5	DFT-s-OFDM 64 QAM	12@6	21.95	21.6	0.1445
2	15	5	386500	1852.5	DFT-s-OFDM 64 QAM	1@1	22.02	21.67	0.1469
2	15	5	386500	1852.5	DFT-s-OFDM 64 QAM	1@23	21.91	21.56	0.1432
2	15	5	386500	1852.5	DFT-s-OFDM 256 QAM	12@6	19.7	19.35	0.0861
2	15	5	386500	1852.5	DFT-s-OFDM 256 QAM	1@1	19.7	19.35	0.0861
2	15	5	386500	1852.5	DFT-s-OFDM 256 QAM	1@23	19.58	19.23	0.0838
2	15	5	386500	1852.5	CP-OFDM QPSK	13@6	22.97	22.62	0.1828
2	15	5	386500	1852.5	CP-OFDM QPSK	1@1	23.05	22.7	0.1862
2	15	5	386500	1852.5	CP-OFDM QPSK	1@23	22.68	22.33	0.1710
2	15	5	392000	1880	DFT-s-OFDM PI/2 BPSK	12@6	24.56	24.21	0.2636
2	15	5	392000	1880	DFT-s-OFDM PI/2 BPSK	1@1	24.54	24.19	0.2624
2	15	5	392000	1880	DFT-s-OFDM PI/2 BPSK	1@23	24.4	24.05	0.2541
2	15	5	392000	1880	DFT-s-OFDM QPSK	12@6	24.59	24.24	0.2655
2	15	5	392000	1880	DFT-s-OFDM QPSK	1@1	24.67	24.32	0.2704
2	15	5	392000	1880	DFT-s-OFDM QPSK	1@23	24.66	24.31	0.2698
2	15	5	392000	1880	DFT-s-OFDM 16 QAM	12@6	23.45	23.1	0.2042
2	15	5	392000	1880	DFT-s-OFDM 16 QAM	1@1	23.69	23.34	0.2158
2	15	5	392000	1880	DFT-s-OFDM 16 QAM	1@23	23.63	23.28	0.2128

2	15	5	392000	1880	DFT-s-OFDM 64 QAM	12@6	22.13	21.78	0.1507
2	15	5	392000	1880	DFT-s-OFDM 64 QAM	1@1	22.15	21.8	0.1514
2	15	5	392000	1880	DFT-s-OFDM 64 QAM	1@23	22.09	21.74	0.1493
2	15	5	392000	1880	DFT-s-OFDM 256 QAM	12@6	19.94	19.59	0.0910
2	15	5	392000	1880	DFT-s-OFDM 256 QAM	1@1	19.83	19.48	0.0887
2	15	5	392000	1880	DFT-s-OFDM 256 QAM	1@23	19.7	19.35	0.0861
2	15	5	392000	1880	CP-OFDM QPSK	13@6	23.09	22.74	0.1879
2	15	5	392000	1880	CP-OFDM QPSK	1@1	22.85	22.5	0.1778
2	15	5	392000	1880	CP-OFDM QPSK	1@23	22.77	22.42	0.1746
2	15	5	397500	1907.5	DFT-s-OFDM PI/2 BPSK	12@6	24.25	23.9	0.2455
2	15	5	397500	1907.5	DFT-s-OFDM PI/2 BPSK	1@1	24.24	23.89	0.2449
2	15	5	397500	1907.5	DFT-s-OFDM PI/2 BPSK	1@23	24.11	23.76	0.2377
2	15	5	397500	1907.5	DFT-s-OFDM QPSK	12@6	24.27	23.92	0.2466
2	15	5	397500	1907.5	DFT-s-OFDM QPSK	1@1	24.44	24.09	0.2564
2	15	5	397500	1907.5	DFT-s-OFDM QPSK	1@23	24.34	23.99	0.2506
2	15	5	397500	1907.5	DFT-s-OFDM 16 QAM	12@6	23.15	22.8	0.1905
2	15	5	397500	1907.5	DFT-s-OFDM 16 QAM	1@1	23.42	23.07	0.2028
2	15	5	397500	1907.5	DFT-s-OFDM 16 QAM	1@23	23.32	22.97	0.1982
2	15	5	397500	1907.5	DFT-s-OFDM 64 QAM	12@6	21.76	21.41	0.1384
2	15	5	397500	1907.5	DFT-s-OFDM 64 QAM	1@1	21.89	21.54	0.1426
2	15	5	397500	1907.5	DFT-s-OFDM 64 QAM	1@23	21.77	21.42	0.1387
2	15	5	397500	1907.5	DFT-s-OFDM 256 QAM	12@6	19.64	19.29	0.0849
2	15	5	397500	1907.5	DFT-s-OFDM 256 QAM	1@1	19.49	19.14	0.0820
2	15	5	397500	1907.5	DFT-s-OFDM 256 QAM	1@23	19.41	19.06	0.0805
2	15	5	397500	1907.5	CP-OFDM QPSK	13@6	22.77	22.42	0.1746
2	15	5	397500	1907.5	CP-OFDM QPSK	1@1	22.87	22.52	0.1786
2	15	5	397500	1907.5	CP-OFDM QPSK	1@23	22.78	22.43	0.1750
2	15	10	387000	1855	DFT-s-OFDM PI/2 BPSK	25@12	24.48	24.13	0.2588
2	15	10	387000	1855	DFT-s-OFDM PI/2 BPSK	1@1	24.42	24.07	0.2553
2	15	10	387000	1855	DFT-s-OFDM PI/2 BPSK	1@50	24.33	23.98	0.2500
2	15	10	387000	1855	DFT-s-OFDM QPSK	25@12	24.49	24.14	0.2594
2	15	10	387000	1855	DFT-s-OFDM QPSK	1@1	24.54	24.19	0.2624

2	15	10	387000	1855	DFT-s-OFDM QPSK	1@50	24.5	24.15	0.2600
2	15	10	387000	1855	DFT-s-OFDM 16 QAM	25@12	23.48	23.13	0.2056
2	15	10	387000	1855	DFT-s-OFDM 16 QAM	1@1	23.58	23.23	0.2104
2	15	10	387000	1855	DFT-s-OFDM 16 QAM	1@50	23.56	23.21	0.2094
2	15	10	387000	1855	DFT-s-OFDM 64 QAM	25@12	22.11	21.76	0.1500
2	15	10	387000	1855	DFT-s-OFDM 64 QAM	1@1	22.09	21.74	0.1493
2	15	10	387000	1855	DFT-s-OFDM 64 QAM	1@50	22	21.65	0.1462
2	15	10	387000	1855	DFT-s-OFDM 256 QAM	25@12	19.68	19.33	0.0857
2	15	10	387000	1855	DFT-s-OFDM 256 QAM	1@1	19.69	19.34	0.0859
2	15	10	387000	1855	DFT-s-OFDM 256 QAM	1@50	19.66	19.31	0.0853
2	15	10	387000	1855	CP-OFDM QPSK	26@13	22.98	22.63	0.1832
2	15	10	387000	1855	CP-OFDM QPSK	1@1	22.93	22.58	0.1811
2	15	10	387000	1855	CP-OFDM QPSK	1@50	23	22.65	0.1841
2	15	10	392000	1880	DFT-s-OFDM PI/2 BPSK	25@12	24.6	24.25	0.2661
2	15	10	392000	1880	DFT-s-OFDM PI/2 BPSK	1@1	24.58	24.23	0.2649
2	15	10	392000	1880	DFT-s-OFDM PI/2 BPSK	1@50	24.41	24.06	0.2547
2	15	10	392000	1880	DFT-s-OFDM QPSK	25@12	24.6	24.25	0.2661
2	15	10	392000	1880	DFT-s-OFDM QPSK	1@1	24.64	24.29	0.2685
2	15	10	392000	1880	DFT-s-OFDM QPSK	1@50	24.62	24.27	0.2673
2	15	10	392000	1880	DFT-s-OFDM 16 QAM	25@12	23.61	23.26	0.2118
2	15	10	392000	1880	DFT-s-OFDM 16 QAM	1@1	23.76	23.41	0.2193
2	15	10	392000	1880	DFT-s-OFDM 16 QAM	1@50	23.6	23.25	0.2113
2	15	10	392000	1880	DFT-s-OFDM 64 QAM	25@12	22.23	21.88	0.1542
2	15	10	392000	1880	DFT-s-OFDM 64 QAM	1@1	22.2	21.85	0.1531
2	15	10	392000	1880	DFT-s-OFDM 64 QAM	1@50	22.09	21.74	0.1493
2	15	10	392000	1880	DFT-s-OFDM 256 QAM	25@12	20.01	19.66	0.0925
2	15	10	392000	1880	DFT-s-OFDM 256 QAM	1@1	19.84	19.49	0.0889
2	15	10	392000	1880	DFT-s-OFDM 256 QAM	1@50	19.74	19.39	0.0869
2	15	10	392000	1880	CP-OFDM QPSK	26@13	23.06	22.71	0.1866
2	15	10	392000	1880	CP-OFDM QPSK	1@1	23.23	22.88	0.1941
2	15	10	392000	1880	CP-OFDM QPSK	1@50	22.84	22.49	0.1774
2	15	10	397000	1905	DFT-s-OFDM PI/2 BPSK	25@12	24.27	23.92	0.2466

2	15	10	397000	1905	DFT-s-OFDM PI/2 BPSK	1@1	24.23	23.88	0.2443
2	15	10	397000	1905	DFT-s-OFDM PI/2 BPSK	1@50	24.18	23.83	0.2415
2	15	10	397000	1905	DFT-s-OFDM QPSK	25@12	24.31	23.96	0.2489
2	15	10	397000	1905	DFT-s-OFDM QPSK	1@1	24.31	23.96	0.2489
2	15	10	397000	1905	DFT-s-OFDM QPSK	1@50	24.32	23.97	0.2495
2	15	10	397000	1905	DFT-s-OFDM 16 QAM	25@12	23.3	22.95	0.1972
2	15	10	397000	1905	DFT-s-OFDM 16 QAM	1@1	23.46	23.11	0.2046
2	15	10	397000	1905	DFT-s-OFDM 16 QAM	1@50	23.36	23.01	0.2000
2	15	10	397000	1905	DFT-s-OFDM 64 QAM	25@12	21.94	21.59	0.1442
2	15	10	397000	1905	DFT-s-OFDM 64 QAM	1@1	21.9	21.55	0.1429
2	15	10	397000	1905	DFT-s-OFDM 64 QAM	1@50	21.84	21.49	0.1409
2	15	10	397000	1905	DFT-s-OFDM 256 QAM	25@12	19.7	19.35	0.0861
2	15	10	397000	1905	DFT-s-OFDM 256 QAM	1@1	19.55	19.2	0.0832
2	15	10	397000	1905	DFT-s-OFDM 256 QAM	1@50	19.48	19.13	0.0818
2	15	10	397000	1905	CP-OFDM QPSK	26@13	22.78	22.43	0.1750
2	15	10	397000	1905	CP-OFDM QPSK	1@1	22.92	22.57	0.1807
2	15	10	397000	1905	CP-OFDM QPSK	1@50	22.53	22.18	0.1652
2	15	15	387500	1857.5	DFT-s-OFDM PI/2 BPSK	36@18	24.7	24.35	0.2723
2	15	15	387500	1857.5	DFT-s-OFDM PI/2 BPSK	1@1	24.62	24.27	0.2673
2	15	15	387500	1857.5	DFT-s-OFDM PI/2 BPSK	1@77	24.67	24.32	0.2704
2	15	15	387500	1857.5	DFT-s-OFDM QPSK	36@18	24.72	24.37	0.2735
2	15	15	387500	1857.5	DFT-s-OFDM QPSK	1@1	24.71	24.36	0.2729
2	15	15	387500	1857.5	DFT-s-OFDM QPSK	1@77	24.77	24.42	0.2767
2	15	15	387500	1857.5	DFT-s-OFDM 16 QAM	36@18	23.69	23.34	0.2158
2	15	15	387500	1857.5	DFT-s-OFDM 16 QAM	1@1	23.81	23.46	0.2218
2	15	15	387500	1857.5	DFT-s-OFDM 16 QAM	1@77	23.75	23.4	0.2188
2	15	15	387500	1857.5	DFT-s-OFDM 64 QAM	36@18	22.21	21.86	0.1535
2	15	15	387500	1857.5	DFT-s-OFDM 64 QAM	1@1	22.3	21.95	0.1567
2	15	15	387500	1857.5	DFT-s-OFDM 64 QAM	1@77	22.25	21.9	0.1549
2	15	15	387500	1857.5	DFT-s-OFDM 256 QAM	36@18	19.76	19.41	0.0873
2	15	15	387500	1857.5	DFT-s-OFDM 256 QAM	1@1	19.9	19.55	0.0902
2	15	15	387500	1857.5	DFT-s-OFDM 256 QAM	1@77	19.89	19.54	0.0899

2	15	15	387500	1857.5	CP-OFDM QPSK	39@19	23.22	22.87	0.1936
2	15	15	387500	1857.5	CP-OFDM QPSK	1@1	23.28	22.93	0.1963
2	15	15	387500	1857.5	CP-OFDM QPSK	1@77	22.96	22.61	0.1824
2	15	15	392000	1880	DFT-s-OFDM PI/2 BPSK	36@18	24.73	24.38	0.2742
2	15	15	392000	1880	DFT-s-OFDM PI/2 BPSK	1@1	24.7	24.35	0.2723
2	15	15	392000	1880	DFT-s-OFDM PI/2 BPSK	1@77	24.62	24.27	0.2673
2	15	15	392000	1880	DFT-s-OFDM QPSK	36@18	24.68	24.33	0.2710
2	15	15	392000	1880	DFT-s-OFDM QPSK	1@1	24.79	24.44	0.2780
2	15	15	392000	1880	DFT-s-OFDM QPSK	1@77	24.74	24.39	0.2748
2	15	15	392000	1880	DFT-s-OFDM 16 QAM	36@18	23.72	23.37	0.2173
2	15	15	392000	1880	DFT-s-OFDM 16 QAM	1@1	23.84	23.49	0.2234
2	15	15	392000	1880	DFT-s-OFDM 16 QAM	1@77	23.77	23.42	0.2198
2	15	15	392000	1880	DFT-s-OFDM 64 QAM	36@18	22.24	21.89	0.1545
2	15	15	392000	1880	DFT-s-OFDM 64 QAM	1@1	22.32	21.97	0.1574
2	15	15	392000	1880	DFT-s-OFDM 64 QAM	1@77	22.22	21.87	0.1538
2	15	15	392000	1880	DFT-s-OFDM 256 QAM	36@18	19.9	19.55	0.0902
2	15	15	392000	1880	DFT-s-OFDM 256 QAM	1@1	19.94	19.59	0.0910
2	15	15	392000	1880	DFT-s-OFDM 256 QAM	1@77	19.88	19.53	0.0897
2	15	15	392000	1880	CP-OFDM QPSK	39@19	23.22	22.87	0.1936
2	15	15	392000	1880	CP-OFDM QPSK	1@1	23.26	22.91	0.1954
2	15	15	392000	1880	CP-OFDM QPSK	1@77	22.91	22.56	0.1803
2	15	15	396500	1902.5	DFT-s-OFDM PI/2 BPSK	36@18	24.49	24.14	0.2594
2	15	15	396500	1902.5	DFT-s-OFDM PI/2 BPSK	1@1	24.45	24.1	0.2570
2	15	15	396500	1902.5	DFT-s-OFDM PI/2 BPSK	1@77	24.42	24.07	0.2553
2	15	15	396500	1902.5	DFT-s-OFDM QPSK	36@18	24.47	24.12	0.2582
2	15	15	396500	1902.5	DFT-s-OFDM QPSK	1@1	24.58	24.23	0.2649
2	15	15	396500	1902.5	DFT-s-OFDM QPSK	1@77	24.52	24.17	0.2612
2	15	15	396500	1902.5	DFT-s-OFDM 16 QAM	36@18	23.51	23.16	0.2070
2	15	15	396500	1902.5	DFT-s-OFDM 16 QAM	1@1	23.69	23.34	0.2158
2	15	15	396500	1902.5	DFT-s-OFDM 16 QAM	1@77	23.51	23.16	0.2070
2	15	15	396500	1902.5	DFT-s-OFDM 64 QAM	36@18	22.02	21.67	0.1469
2	15	15	396500	1902.5	DFT-s-OFDM 64 QAM	1@1	22.13	21.78	0.1507

2	15	15	396500	1902.5	DFT-s-OFDM 64 QAM	1@77	22.04	21.69	0.1476
2	15	15	396500	1902.5	DFT-s-OFDM 256 QAM	36@18	19.88	19.53	0.0897
2	15	15	396500	1902.5	DFT-s-OFDM 256 QAM	1@1	19.82	19.47	0.0885
2	15	15	396500	1902.5	DFT-s-OFDM 256 QAM	1@77	19.67	19.32	0.0855
2	15	15	396500	1902.5	CP-OFDM QPSK	39@19	23.04	22.69	0.1858
2	15	15	396500	1902.5	CP-OFDM QPSK	1@1	23.15	22.8	0.1905
2	15	15	396500	1902.5	CP-OFDM QPSK	1@77	22.7	22.35	0.1718
2	15	20	388000	1860	DFT-s-OFDM PI/2 BPSK	50@25	24.64	24.29	0.2685
2	15	20	388000	1860	DFT-s-OFDM PI/2 BPSK	1@1	24.63	24.28	0.2679
2	15	20	388000	1860	DFT-s-OFDM PI/2 BPSK	1@104	24.69	24.34	0.2716
2	15	20	388000	1860	DFT-s-OFDM QPSK	50@25	24.69	24.34	0.2716
2	15	20	388000	1860	DFT-s-OFDM QPSK	1@1	24.67	24.32	0.2704
2	15	20	388000	1860	DFT-s-OFDM QPSK	1@104	24.85	24.5	0.2818
2	15	20	388000	1860	DFT-s-OFDM 16 QAM	50@25	23.62	23.27	0.2123
2	15	20	388000	1860	DFT-s-OFDM 16 QAM	1@1	23.78	23.43	0.2203
2	15	20	388000	1860	DFT-s-OFDM 16 QAM	1@104	23.85	23.5	0.2239
2	15	20	388000	1860	DFT-s-OFDM 64 QAM	50@25	22.23	21.88	0.1542
2	15	20	388000	1860	DFT-s-OFDM 64 QAM	1@1	22.26	21.91	0.1552
2	15	20	388000	1860	DFT-s-OFDM 64 QAM	1@104	22.35	22	0.1585
2	15	20	388000	1860	DFT-s-OFDM 256 QAM	50@25	20.12	19.77	0.0948
2	15	20	388000	1860	DFT-s-OFDM 256 QAM	1@1	19.91	19.56	0.0904
2	15	20	388000	1860	DFT-s-OFDM 256 QAM	1@104	19.97	19.62	0.0916
2	15	20	388000	1860	CP-OFDM QPSK	53@26	23.21	22.86	0.1932
2	15	20	388000	1860	CP-OFDM QPSK	1@1	23	22.65	0.1841
2	15	20	388000	1860	CP-OFDM QPSK	1@104	23.06	22.71	0.1866
2	15	20	392000	1880	DFT-s-OFDM PI/2 BPSK	50@25	24.67	24.32	0.2704
2	15	20	392000	1880	DFT-s-OFDM PI/2 BPSK	1@1	24.66	24.31	0.2698
2	15	20	392000	1880	DFT-s-OFDM PI/2 BPSK	1@104	24.55	24.2	0.2630
2	15	20	392000	1880	DFT-s-OFDM QPSK	50@25	24.69	24.34	0.2716
2	15	20	392000	1880	DFT-s-OFDM QPSK	1@1	24.79	24.44	0.2780
2	15	20	392000	1880	DFT-s-OFDM QPSK	1@104	24.72	24.37	0.2735
2	15	20	392000	1880	DFT-s-OFDM 16 QAM	50@25	23.65	23.3	0.2138

2	15	20	392000	1880	DFT-s-OFDM 16 QAM	1@1	23.81	23.46	0.2218
2	15	20	392000	1880	DFT-s-OFDM 16 QAM	1@104	23.74	23.39	0.2183
2	15	20	392000	1880	DFT-s-OFDM 64 QAM	50@25	22.24	21.89	0.1545
2	15	20	392000	1880	DFT-s-OFDM 64 QAM	1@1	22.31	21.96	0.1570
2	15	20	392000	1880	DFT-s-OFDM 64 QAM	1@104	22.22	21.87	0.1538
2	15	20	392000	1880	DFT-s-OFDM 256 QAM	50@25	19.73	19.38	0.0867
2	15	20	392000	1880	DFT-s-OFDM 256 QAM	1@1	19.83	19.48	0.0887
2	15	20	392000	1880	DFT-s-OFDM 256 QAM	1@104	19.73	19.38	0.0867
2	15	20	392000	1880	CP-OFDM QPSK	53@26	23.2	22.85	0.1928
2	15	20	392000	1880	CP-OFDM QPSK	1@1	23.1	22.75	0.1884
2	15	20	392000	1880	CP-OFDM QPSK	1@104	22.93	22.58	0.1811
2	15	20	396000	1900	DFT-s-OFDM PI/2 BPSK	50@25	24.47	24.12	0.2582
2	15	20	396000	1900	DFT-s-OFDM PI/2 BPSK	1@1	24.51	24.16	0.2606
2	15	20	396000	1900	DFT-s-OFDM PI/2 BPSK	1@104	24.39	24.04	0.2535
2	15	20	396000	1900	DFT-s-OFDM QPSK	50@25	24.51	24.16	0.2606
2	15	20	396000	1900	DFT-s-OFDM QPSK	1@1	24.58	24.23	0.2649
2	15	20	396000	1900	DFT-s-OFDM QPSK	1@104	24.5	24.15	0.2600
2	15	20	396000	1900	DFT-s-OFDM 16 QAM	50@25	23.47	23.12	0.2051
2	15	20	396000	1900	DFT-s-OFDM 16 QAM	1@1	23.69	23.34	0.2158
2	15	20	396000	1900	DFT-s-OFDM 16 QAM	1@104	23.55	23.2	0.2089
2	15	20	396000	1900	DFT-s-OFDM 64 QAM	50@25	22.04	21.69	0.1476
2	15	20	396000	1900	DFT-s-OFDM 64 QAM	1@1	22.15	21.8	0.1514
2	15	20	396000	1900	DFT-s-OFDM 64 QAM	1@104	22.01	21.66	0.1466
2	15	20	396000	1900	DFT-s-OFDM 256 QAM	50@25	19.94	19.59	0.0910
2	15	20	396000	1900	DFT-s-OFDM 256 QAM	1@1	19.81	19.46	0.0883
2	15	20	396000	1900	DFT-s-OFDM 256 QAM	1@104	19.64	19.29	0.0849
2	15	20	396000	1900	CP-OFDM QPSK	53@26	23	22.65	0.1841
2	15	20	396000	1900	CP-OFDM QPSK	1@1	22.86	22.51	0.1782
2	15	20	396000	1900	CP-OFDM QPSK	1@104	22.69	22.34	0.1714

FR1 N5 (Ant0_Max Conducted Power)

Transmitter Conducted Output Power And EIRP, (G_T - L_C)= -2.58dBi

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	ERP(dBm)	ERP(W)
5	15	5	174300	826.5	DFT-s-OFDM PI/2 BPSK	12@6	24.6	19.87	0.0971
5	15	5	174300	826.5	DFT-s-OFDM PI/2 BPSK	1@1	24.63	19.9	0.0977
5	15	5	174300	826.5	DFT-s-OFDM PI/2 BPSK	1@23	24.51	19.78	0.0951
5	15	5	174300	826.5	DFT-s-OFDM QPSK	12@6	24.68	19.95	0.0989
5	15	5	174300	826.5	DFT-s-OFDM QPSK	1@1	24.75	20.02	0.1005
5	15	5	174300	826.5	DFT-s-OFDM QPSK	1@23	24.83	20.1	0.1023
5	15	5	174300	826.5	DFT-s-OFDM 16 QAM	12@6	23.49	18.76	0.0752
5	15	5	174300	826.5	DFT-s-OFDM 16 QAM	1@1	23.75	19.02	0.0798
5	15	5	174300	826.5	DFT-s-OFDM 16 QAM	1@23	23.66	18.93	0.0782
5	15	5	174300	826.5	DFT-s-OFDM 64 QAM	12@6	22.14	17.41	0.0551
5	15	5	174300	826.5	DFT-s-OFDM 64 QAM	1@1	22.29	17.56	0.0570
5	15	5	174300	826.5	DFT-s-OFDM 64 QAM	1@23	22.21	17.48	0.0560
5	15	5	174300	826.5	DFT-s-OFDM 256 QAM	12@6	20.04	15.31	0.0340
5	15	5	174300	826.5	DFT-s-OFDM 256 QAM	1@1	19.95	15.22	0.0333
5	15	5	174300	826.5	DFT-s-OFDM 256 QAM	1@23	19.85	15.12	0.0325
5	15	5	174300	826.5	CP-OFDM QPSK	13@6	23.15	18.42	0.0695
5	15	5	174300	826.5	CP-OFDM QPSK	1@1	23.03	18.3	0.0676
5	15	5	174300	826.5	CP-OFDM QPSK	1@23	22.91	18.18	0.0658
5	15	5	176300	836.5	DFT-s-OFDM PI/2 BPSK	12@6	24.38	19.65	0.0923
5	15	5	176300	836.5	DFT-s-OFDM PI/2 BPSK	1@1	24.38	19.65	0.0923
5	15	5	176300	836.5	DFT-s-OFDM PI/2 BPSK	1@23	24.18	19.45	0.0881
5	15	5	176300	836.5	DFT-s-OFDM QPSK	12@6	24.37	19.64	0.0920
5	15	5	176300	836.5	DFT-s-OFDM QPSK	1@1	24.55	19.82	0.0959
5	15	5	176300	836.5	DFT-s-OFDM QPSK	1@23	24.53	19.8	0.0955
5	15	5	176300	836.5	DFT-s-OFDM 16 QAM	12@6	23.25	18.52	0.0711
5	15	5	176300	836.5	DFT-s-OFDM 16 QAM	1@1	23.53	18.8	0.0759
5	15	5	176300	836.5	DFT-s-OFDM 16 QAM	1@23	23.47	18.74	0.0748
5	15	5	176300	836.5	DFT-s-OFDM 64 QAM	12@6	21.86	17.13	0.0516
5	15	5	176300	836.5	DFT-s-OFDM 64 QAM	1@1	22.03	17.3	0.0537
5	15	5	176300	836.5	DFT-s-OFDM 64 QAM	1@23	21.96	17.23	0.0528

5	15	5	176300	836.5	DFT-s-OFDM 256 QAM	12@6	19.85	15.12	0.0325
5	15	5	176300	836.5	DFT-s-OFDM 256 QAM	1@1	19.65	14.92	0.0310
5	15	5	176300	836.5	DFT-s-OFDM 256 QAM	1@23	19.59	14.86	0.0306
5	15	5	176300	836.5	CP-OFDM QPSK	13@6	22.9	18.17	0.0656
5	15	5	176300	836.5	CP-OFDM QPSK	1@1	23.05	18.32	0.0679
5	15	5	176300	836.5	CP-OFDM QPSK	1@23	22.63	17.9	0.0617
5	15	5	178300	846.5	DFT-s-OFDM PI/2 BPSK	12@6	24.18	19.45	0.0881
5	15	5	178300	846.5	DFT-s-OFDM PI/2 BPSK	1@1	24.28	19.55	0.0902
5	15	5	178300	846.5	DFT-s-OFDM PI/2 BPSK	1@23	24.18	19.45	0.0881
5	15	5	178300	846.5	DFT-s-OFDM QPSK	12@6	24.22	19.49	0.0889
5	15	5	178300	846.5	DFT-s-OFDM QPSK	1@1	24.35	19.62	0.0916
5	15	5	178300	846.5	DFT-s-OFDM QPSK	1@23	24.46	19.73	0.0940
5	15	5	178300	846.5	DFT-s-OFDM 16 QAM	12@6	23.07	18.34	0.0682
5	15	5	178300	846.5	DFT-s-OFDM 16 QAM	1@1	23.39	18.66	0.0735
5	15	5	178300	846.5	DFT-s-OFDM 16 QAM	1@23	23.37	18.64	0.0731
5	15	5	178300	846.5	DFT-s-OFDM 64 QAM	12@6	21.69	16.96	0.0497
5	15	5	178300	846.5	DFT-s-OFDM 64 QAM	1@1	21.84	17.11	0.0514
5	15	5	178300	846.5	DFT-s-OFDM 64 QAM	1@23	21.88	17.15	0.0519
5	15	5	178300	846.5	DFT-s-OFDM 256 QAM	12@6	19.55	14.82	0.0303
5	15	5	178300	846.5	DFT-s-OFDM 256 QAM	1@1	19.55	14.82	0.0303
5	15	5	178300	846.5	DFT-s-OFDM 256 QAM	1@23	19.49	14.76	0.0299
5	15	5	178300	846.5	CP-OFDM QPSK	13@6	22.73	18	0.0631
5	15	5	178300	846.5	CP-OFDM QPSK	1@1	22.6	17.87	0.0612
5	15	5	178300	846.5	CP-OFDM QPSK	1@23	22.54	17.81	0.0604
5	15	10	174800	829	DFT-s-OFDM PI/2 BPSK	25@12	24.58	19.85	0.0966
5	15	10	174800	829	DFT-s-OFDM PI/2 BPSK	1@1	24.54	19.81	0.0957
5	15	10	174800	829	DFT-s-OFDM PI/2 BPSK	1@50	24.41	19.68	0.0929
5	15	10	174800	829	DFT-s-OFDM QPSK	25@12	24.56	19.83	0.0962
5	15	10	174800	829	DFT-s-OFDM QPSK	1@1	24.66	19.93	0.0984
5	15	10	174800	829	DFT-s-OFDM QPSK	1@50	24.55	19.82	0.0959
5	15	10	174800	829	DFT-s-OFDM 16 QAM	25@12	23.58	18.85	0.0767
5	15	10	174800	829	DFT-s-OFDM 16 QAM	1@1	23.71	18.98	0.0791
5	15	10	174800	829	DFT-s-OFDM 16 QAM	1@50	23.53	18.8	0.0759
5	15	10	174800	829	DFT-s-OFDM 64 QAM	25@12	22.16	17.43	0.0553
5	15	10	174800	829	DFT-s-OFDM 64 QAM	1@1	22.19	17.46	0.0557
5	15	10	17480	829	DFT-s-OFD	1@50	22.01	17.28	0.0535

			0		M 64 QAM				
5	15	10	174800	829	DFT-s-OFDM 256 QAM	25@12	20.05	15.32	0.0340
5	15	10	174800	829	DFT-s-OFDM 256 QAM	1@1	19.91	15.18	0.0330
5	15	10	174800	829	DFT-s-OFDM 256 QAM	1@50	19.68	14.95	0.0313
5	15	10	174800	829	CP-OFDM QPSK	26@13	23.06	18.33	0.0681
5	15	10	174800	829	CP-OFDM QPSK	1@1	23.23	18.5	0.0708
5	15	10	174800	829	CP-OFDM QPSK	1@50	23.08	18.35	0.0684
5	15	10	176300	836.5	DFT-s-OFDM PI/2 BPSK	25@12	24.42	19.69	0.0931
5	15	10	176300	836.5	DFT-s-OFDM PI/2 BPSK	1@1	24.43	19.7	0.0933
5	15	10	176300	836.5	DFT-s-OFDM PI/2 BPSK	1@50	24.17	19.44	0.0879
5	15	10	176300	836.5	DFT-s-OFDM QPSK	25@12	24.36	19.63	0.0918
5	15	10	176300	836.5	DFT-s-OFDM QPSK	1@1	24.47	19.74	0.0942
5	15	10	176300	836.5	DFT-s-OFDM QPSK	1@50	24.38	19.65	0.0923
5	15	10	176300	836.5	DFT-s-OFDM 16 QAM	25@12	23.39	18.66	0.0735
5	15	10	176300	836.5	DFT-s-OFDM 16 QAM	1@1	23.54	18.81	0.0760
5	15	10	176300	836.5	DFT-s-OFDM 16 QAM	1@50	23.35	18.62	0.0728
5	15	10	176300	836.5	DFT-s-OFDM 64 QAM	25@12	22.01	17.28	0.0535
5	15	10	176300	836.5	DFT-s-OFDM 64 QAM	1@1	22.05	17.32	0.0540
5	15	10	176300	836.5	DFT-s-OFDM 64 QAM	1@50	21.8	17.07	0.0509
5	15	10	176300	836.5	DFT-s-OFDM 256 QAM	25@12	19.76	15.03	0.0318
5	15	10	176300	836.5	DFT-s-OFDM 256 QAM	1@1	19.65	14.92	0.0310
5	15	10	176300	836.5	DFT-s-OFDM 256 QAM	1@50	19.47	14.74	0.0298
5	15	10	176300	836.5	CP-OFDM QPSK	26@13	22.87	18.14	0.0652
5	15	10	176300	836.5	CP-OFDM QPSK	1@1	23.08	18.35	0.0684
5	15	10	176300	836.5	CP-OFDM QPSK	1@50	22.55	17.82	0.0605
5	15	10	177800	844	DFT-s-OFDM PI/2 BPSK	25@12	24.27	19.54	0.0899
5	15	10	177800	844	DFT-s-OFDM PI/2 BPSK	1@1	24.14	19.41	0.0873
5	15	10	177800	844	DFT-s-OFDM PI/2 BPSK	1@50	24.12	19.39	0.0869
5	15	10	177800	844	DFT-s-OFDM QPSK	25@12	24.26	19.53	0.0897
5	15	10	177800	844	DFT-s-OFDM QPSK	1@1	24.29	19.56	0.0904
5	15	10	177800	844	DFT-s-OFDM QPSK	1@50	24.34	19.61	0.0914
5	15	10	177800	844	DFT-s-OFDM 16 QAM	25@12	23.27	18.54	0.0714
5	15	10	177800	844	DFT-s-OFDM 16 QAM	1@1	23.36	18.63	0.0729
5	15	10	177800	844	DFT-s-OFDM 16 QAM	1@50	23.3	18.57	0.0719
5	15	10	177800	844	DFT-s-OFDM 64 QAM	25@12	21.86	17.13	0.0516
5	15	10	177800	844	DFT-s-OFDM 64 QAM	1@1	21.84	17.11	0.0514

5	15	10	177800	844	DFT-s-OFDM 64 QAM	1@50	21.82	17.09	0.0512
5	15	10	177800	844	DFT-s-OFDM 256 QAM	25@12	19.73	15	0.0316
5	15	10	177800	844	DFT-s-OFDM 256 QAM	1@1	19.49	14.76	0.0299
5	15	10	177800	844	DFT-s-OFDM 256 QAM	1@50	19.45	14.72	0.0296
5	15	10	177800	844	CP-OFDM QPSK	26@13	22.78	18.05	0.0638
5	15	10	177800	844	CP-OFDM QPSK	1@1	22.85	18.12	0.0649
5	15	10	177800	844	CP-OFDM QPSK	1@50	22.48	17.75	0.0596
5	15	15	175300	831.5	DFT-s-OFDM PI/2 BPSK	36@18	24.58	19.85	0.0966
5	15	15	175300	831.5	DFT-s-OFDM PI/2 BPSK	1@1	24.67	19.94	0.0986
5	15	15	175300	831.5	DFT-s-OFDM PI/2 BPSK	1@77	24.3	19.57	0.0906
5	15	15	175300	831.5	DFT-s-OFDM QPSK	36@18	24.61	19.88	0.0973
5	15	15	175300	831.5	DFT-s-OFDM QPSK	1@1	24.74	20.01	0.1002
5	15	15	175300	831.5	DFT-s-OFDM QPSK	1@77	24.48	19.75	0.0944
5	15	15	175300	831.5	DFT-s-OFDM 16 QAM	36@18	23.62	18.89	0.0774
5	15	15	175300	831.5	DFT-s-OFDM 16 QAM	1@1	23.78	19.05	0.0804
5	15	15	175300	831.5	DFT-s-OFDM 16 QAM	1@77	23.48	18.75	0.0750
5	15	15	175300	831.5	DFT-s-OFDM 64 QAM	36@18	22.12	17.39	0.0548
5	15	15	175300	831.5	DFT-s-OFDM 64 QAM	1@1	22.28	17.55	0.0569
5	15	15	175300	831.5	DFT-s-OFDM 64 QAM	1@77	21.95	17.22	0.0527
5	15	15	175300	831.5	DFT-s-OFDM 256 QAM	36@18	19.76	15.03	0.0318
5	15	15	175300	831.5	DFT-s-OFDM 256 QAM	1@1	20.13	15.4	0.0347
5	15	15	175300	831.5	DFT-s-OFDM 256 QAM	1@77	19.78	15.05	0.0320
5	15	15	175300	831.5	CP-OFDM QPSK	39@19	23.15	18.42	0.0695
5	15	15	175300	831.5	CP-OFDM QPSK	1@1	23.15	18.42	0.0695
5	15	15	175300	831.5	CP-OFDM QPSK	1@77	22.63	17.9	0.0617
5	15	15	176300	836.5	DFT-s-OFDM PI/2 BPSK	36@18	24.49	19.76	0.0946
5	15	15	176300	836.5	DFT-s-OFDM PI/2 BPSK	1@1	24.57	19.84	0.0964
5	15	15	176300	836.5	DFT-s-OFDM PI/2 BPSK	1@77	24.27	19.54	0.0899
5	15	15	176300	836.5	DFT-s-OFDM QPSK	36@18	24.48	19.75	0.0944
5	15	15	176300	836.5	DFT-s-OFDM QPSK	1@1	24.67	19.94	0.0986
5	15	15	176300	836.5	DFT-s-OFDM QPSK	1@77	24.5	19.77	0.0948
5	15	15	176300	836.5	DFT-s-OFDM 16 QAM	36@18	23.5	18.77	0.0753
5	15	15	176300	836.5	DFT-s-OFDM 16 QAM	1@1	23.68	18.95	0.0785
5	15	15	176300	836.5	DFT-s-OFDM 16 QAM	1@77	23.39	18.66	0.0735
5	15	15	176300	836.5	DFT-s-OFDM 64 QAM	36@18	22.04	17.31	0.0538
5	15	15	17630	836.5	DFT-s-OFD	1@1	22.18	17.45	0.0556

			0		M 64 QAM				
5	15	15	176300	836.5	DFT-s-OFDM 64 QAM	1@77	21.87	17.14	0.0518
5	15	15	176300	836.5	DFT-s-OFDM 256 QAM	36@18	19.61	14.88	0.0308
5	15	15	176300	836.5	DFT-s-OFDM 256 QAM	1@1	19.88	15.15	0.0327
5	15	15	176300	836.5	DFT-s-OFDM 256 QAM	1@77	19.59	14.86	0.0306
5	15	15	176300	836.5	CP-OFDM QPSK	39@19	23.01	18.28	0.0673
5	15	15	176300	836.5	CP-OFDM QPSK	1@1	23.19	18.46	0.0701
5	15	15	176300	836.5	CP-OFDM QPSK	1@77	22.56	17.83	0.0607
5	15	15	177300	841.5	DFT-s-OFDM PI/2 BPSK	36@18	24.36	19.63	0.0918
5	15	15	177300	841.5	DFT-s-OFDM PI/2 BPSK	1@1	24.39	19.66	0.0925
5	15	15	177300	841.5	DFT-s-OFDM PI/2 BPSK	1@77	24.08	19.35	0.0861
5	15	15	177300	841.5	DFT-s-OFDM QPSK	36@18	24.36	19.63	0.0918
5	15	15	177300	841.5	DFT-s-OFDM QPSK	1@1	24.51	19.78	0.0951
5	15	15	177300	841.5	DFT-s-OFDM QPSK	1@77	24.29	19.56	0.0904
5	15	15	177300	841.5	DFT-s-OFDM 16 QAM	36@18	23.36	18.63	0.0729
5	15	15	177300	841.5	DFT-s-OFDM 16 QAM	1@1	23.53	18.8	0.0759
5	15	15	177300	841.5	DFT-s-OFDM 16 QAM	1@77	23.28	18.55	0.0716
5	15	15	177300	841.5	DFT-s-OFDM 64 QAM	36@18	21.88	17.15	0.0519
5	15	15	177300	841.5	DFT-s-OFDM 64 QAM	1@1	22.08	17.35	0.0543
5	15	15	177300	841.5	DFT-s-OFDM 64 QAM	1@77	21.75	17.02	0.0504
5	15	15	177300	841.5	DFT-s-OFDM 256 QAM	36@18	19.76	15.03	0.0318
5	15	15	177300	841.5	DFT-s-OFDM 256 QAM	1@1	19.77	15.04	0.0319
5	15	15	177300	841.5	DFT-s-OFDM 256 QAM	1@77	19.45	14.72	0.0296
5	15	15	177300	841.5	CP-OFDM QPSK	39@19	22.89	18.16	0.0655
5	15	15	177300	841.5	CP-OFDM QPSK	1@1	23.14	18.41	0.0693
5	15	15	177300	841.5	CP-OFDM QPSK	1@77	22.39	17.66	0.0583
5	15	20	175800	834	DFT-s-OFDM PI/2 BPSK	50@25	24.58	19.85	0.0966
5	15	20	175800	834	DFT-s-OFDM PI/2 BPSK	1@1	24.64	19.91	0.0979
5	15	20	175800	834	DFT-s-OFDM PI/2 BPSK	1@104	24.29	19.56	0.0904
5	15	20	175800	834	DFT-s-OFDM QPSK	50@25	24.56	19.83	0.0962
5	15	20	175800	834	DFT-s-OFDM QPSK	1@1	24.77	20.04	0.1009
5	15	20	175800	834	DFT-s-OFDM QPSK	1@104	24.45	19.72	0.0938
5	15	20	175800	834	DFT-s-OFDM 16 QAM	50@25	23.58	18.85	0.0767
5	15	20	175800	834	DFT-s-OFDM 16 QAM	1@1	23.76	19.03	0.0800
5	15	20	175800	834	DFT-s-OFDM 16 QAM	1@104	23.45	18.72	0.0745
5	15	20	175800	834	DFT-s-OFDM 64 QAM	50@25	22.08	17.35	0.0543

5	15	20	175800	834	DFT-s-OFDM 64 QAM	1@1	22.28	17.55	0.0569
5	15	20	175800	834	DFT-s-OFDM 64 QAM	1@104	21.89	17.16	0.0520
5	15	20	175800	834	DFT-s-OFDM 256 QAM	50@25	20.02	15.29	0.0338
5	15	20	175800	834	DFT-s-OFDM 256 QAM	1@1	19.92	15.19	0.0330
5	15	20	175800	834	DFT-s-OFDM 256 QAM	1@104	19.55	14.82	0.0303
5	15	20	175800	834	CP-OFDM QPSK	53@26	23.07	18.34	0.0682
5	15	20	175800	834	CP-OFDM QPSK	1@1	23.12	18.39	0.0690
5	15	20	175800	834	CP-OFDM QPSK	1@104	22.59	17.86	0.0611
5	15	20	176300	836.5	DFT-s-OFDM PI/2 BPSK	50@25	24.51	19.78	0.0951
5	15	20	176300	836.5	DFT-s-OFDM PI/2 BPSK	1@1	24.61	19.88	0.0973
5	15	20	176300	836.5	DFT-s-OFDM PI/2 BPSK	1@104	24.18	19.45	0.0881
5	15	20	176300	836.5	DFT-s-OFDM QPSK	50@25	24.5	19.77	0.0948
5	15	20	176300	836.5	DFT-s-OFDM QPSK	1@1	24.7	19.97	0.0993
5	15	20	176300	836.5	DFT-s-OFDM QPSK	1@104	24.39	19.66	0.0925
5	15	20	176300	836.5	DFT-s-OFDM 16 QAM	50@25	23.49	18.76	0.0752
5	15	20	176300	836.5	DFT-s-OFDM 16 QAM	1@1	23.69	18.96	0.0787
5	15	20	176300	836.5	DFT-s-OFDM 16 QAM	1@104	23.3	18.57	0.0719
5	15	20	176300	836.5	DFT-s-OFDM 64 QAM	50@25	22.02	17.29	0.0536
5	15	20	176300	836.5	DFT-s-OFDM 64 QAM	1@1	22.25	17.52	0.0565
5	15	20	176300	836.5	DFT-s-OFDM 64 QAM	1@104	21.85	17.12	0.0515
5	15	20	176300	836.5	DFT-s-OFDM 256 QAM	50@25	19.65	14.92	0.0310
5	15	20	176300	836.5	DFT-s-OFDM 256 QAM	1@1	19.92	15.19	0.0330
5	15	20	176300	836.5	DFT-s-OFDM 256 QAM	1@104	19.59	14.86	0.0306
5	15	20	176300	836.5	CP-OFDM QPSK	53@26	23.01	18.28	0.0673
5	15	20	176300	836.5	CP-OFDM QPSK	1@1	23	18.27	0.0671
5	15	20	176300	836.5	CP-OFDM QPSK	1@104	22.55	17.82	0.0605
5	15	20	176800	839	DFT-s-OFDM PI/2 BPSK	50@25	24.45	19.72	0.0938
5	15	20	176800	839	DFT-s-OFDM PI/2 BPSK	1@1	24.54	19.81	0.0957
5	15	20	176800	839	DFT-s-OFDM PI/2 BPSK	1@104	24.17	19.44	0.0879
5	15	20	176800	839	DFT-s-OFDM QPSK	50@25	24.45	19.72	0.0938
5	15	20	176800	839	DFT-s-OFDM QPSK	1@1	24.63	19.9	0.0977
5	15	20	176800	839	DFT-s-OFDM QPSK	1@104	24.31	19.58	0.0908
5	15	20	176800	839	DFT-s-OFDM 16 QAM	50@25	23.43	18.7	0.0741
5	15	20	176800	839	DFT-s-OFDM 16 QAM	1@1	23.65	18.92	0.0780
5	15	20	176800	839	DFT-s-OFDM 16 QAM	1@104	23.28	18.55	0.0716
5	15	20	17680	839	DFT-s-OFD	50@2	21.98	17.25	0.0531

			0		M 64 QAM	5			
5	15	20	176800	839	DFT-s-OFDM 64 QAM	1@1	22.14	17.41	0.0551
5	15	20	176800	839	DFT-s-OFDM 64 QAM	1@104	21.73	17	0.0501
5	15	20	176800	839	DFT-s-OFDM 256 QAM	50@25	19.88	15.15	0.0327
5	15	20	176800	839	DFT-s-OFDM 256 QAM	1@1	19.85	15.12	0.0325
5	15	20	176800	839	DFT-s-OFDM 256 QAM	1@104	19.49	14.76	0.0299
5	15	20	176800	839	CP-OFDM QPSK	53@26	22.96	18.23	0.0665
5	15	20	176800	839	CP-OFDM QPSK	1@1	22.95	18.22	0.0664
5	15	20	176800	839	CP-OFDM QPSK	1@104	22.45	17.72	0.0592

Software Version: 22.02.012801

FR1 N12 (Ant0_Max Conducted Power)

Transmitter Conducted Output Power And EIRP, (G_T - L_C)= -1.88dBi

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	ERP(dBm)	ERP(W)
12	15	5	146300	701.5	DFT-s-OFDM PI/2 BPSK	12@6	23.63	19.6	0.0912
12	15	5	146300	701.5	DFT-s-OFDM PI/2 BPSK	1@1	23.34	19.31	0.0853
12	15	5	146300	701.5	DFT-s-OFDM PI/2 BPSK	1@23	23.73	19.7	0.0933
12	15	5	146300	701.5	DFT-s-OFDM QPSK	12@6	23.62	19.59	0.0910
12	15	5	146300	701.5	DFT-s-OFDM QPSK	1@1	23.47	19.44	0.0879
12	15	5	146300	701.5	DFT-s-OFDM QPSK	1@23	24.01	19.98	0.0995
12	15	5	146300	701.5	DFT-s-OFDM 16 QAM	12@6	22.46	18.43	0.0697
12	15	5	146300	701.5	DFT-s-OFDM 16 QAM	1@1	22.53	18.5	0.0708
12	15	5	146300	701.5	DFT-s-OFDM 16 QAM	1@23	22.94	18.91	0.0778
12	15	5	146300	701.5	DFT-s-OFDM 64 QAM	12@6	21.13	17.1	0.0513
12	15	5	146300	701.5	DFT-s-OFDM 64 QAM	1@1	21.02	16.99	0.0500
12	15	5	146300	701.5	DFT-s-OFDM 64 QAM	1@23	21.44	17.41	0.0551
12	15	5	146300	701.5	DFT-s-OFDM 256 QAM	12@6	18.69	14.66	0.0292
12	15	5	146300	701.5	DFT-s-OFDM 256 QAM	1@1	18.67	14.64	0.0291
12	15	5	146300	701.5	DFT-s-OFDM 256 QAM	1@23	19.11	15.08	0.0322
12	15	5	146300	701.5	CP-OFDM QPSK	13@6	22.16	18.13	0.0650
12	15	5	146300	701.5	CP-OFDM QPSK	1@1	22.02	17.99	0.0630
12	15	5	146300	701.5	CP-OFDM QPSK	1@23	22.18	18.15	0.0653
12	15	5	147500	707.5	DFT-s-OFDM PI/2	12@6	24.46	20.43	0.1104

					BPSK				
12	15	5	147500	707.5	DFT-s-OFDM PI/2 BPSK	1@1	24.16	20.13	0.1030
12	15	5	147500	707.5	DFT-s-OFDM PI/2 BPSK	1@23	24.33	20.3	0.1072
12	15	5	147500	707.5	DFT-s-OFDM QPSK	12@6	24.48	20.45	0.1109
12	15	5	147500	707.5	DFT-s-OFDM QPSK	1@1	24.38	20.35	0.1084
12	15	5	147500	707.5	DFT-s-OFDM QPSK	1@23	24.65	20.62	0.1153
12	15	5	147500	707.5	DFT-s-OFDM 16 QAM	12@6	23.34	19.31	0.0853
12	15	5	147500	707.5	DFT-s-OFDM 16 QAM	1@1	23.37	19.34	0.0859
12	15	5	147500	707.5	DFT-s-OFDM 16 QAM	1@23	23.59	19.56	0.0904
12	15	5	147500	707.5	DFT-s-OFDM 64 QAM	12@6	21.95	17.92	0.0619
12	15	5	147500	707.5	DFT-s-OFDM 64 QAM	1@1	21.88	17.85	0.0610
12	15	5	147500	707.5	DFT-s-OFDM 64 QAM	1@23	22.06	18.03	0.0635
12	15	5	147500	707.5	DFT-s-OFDM 256 QAM	12@6	19.11	15.08	0.0322
12	15	5	147500	707.5	DFT-s-OFDM 256 QAM	1@1	19.51	15.48	0.0353
12	15	5	147500	707.5	DFT-s-OFDM 256 QAM	1@23	19.7	15.67	0.0369
12	15	5	147500	707.5	CP-OFDM QPSK	13@6	22.96	18.93	0.0782
12	15	5	147500	707.5	CP-OFDM QPSK	1@1	22.89	18.86	0.0769
12	15	5	147500	707.5	CP-OFDM QPSK	1@23	22.75	18.72	0.0745
12	15	5	148700	713.5	DFT-s-OFDM PI/2 BPSK	12@6	24.35	20.32	0.1076
12	15	5	148700	713.5	DFT-s-OFDM PI/2 BPSK	1@1	24.31	20.28	0.1067
12	15	5	148700	713.5	DFT-s-OFDM PI/2 BPSK	1@23	24.15	20.12	0.1028
12	15	5	148700	713.5	DFT-s-OFDM QPSK	12@6	24.37	20.34	0.1081
12	15	5	148700	713.5	DFT-s-OFDM QPSK	1@1	24.48	20.45	0.1109
12	15	5	148700	713.5	DFT-s-OFDM QPSK	1@23	24.38	20.35	0.1084

12	15	5	148700	713.5	DFT-s-OFDM 16 QAM	12@6	23.22	19.19	0.0830
12	15	5	148700	713.5	DFT-s-OFDM 16 QAM	1@1	23.48	19.45	0.0881
12	15	5	148700	713.5	DFT-s-OFDM 16 QAM	1@23	23.36	19.33	0.0857
12	15	5	148700	713.5	DFT-s-OFDM 64 QAM	12@6	21.85	17.82	0.0605
12	15	5	148700	713.5	DFT-s-OFDM 64 QAM	1@1	21.97	17.94	0.0622
12	15	5	148700	713.5	DFT-s-OFDM 64 QAM	1@23	21.87	17.84	0.0608
12	15	5	148700	713.5	DFT-s-OFDM 256 QAM	12@6	19.23	15.2	0.0331
12	15	5	148700	713.5	DFT-s-OFDM 256 QAM	1@1	19.64	15.61	0.0364
12	15	5	148700	713.5	DFT-s-OFDM 256 QAM	1@23	19.53	15.5	0.0355
12	15	5	148700	713.5	CP-OFDM QPSK	13@6	22.88	18.85	0.0767
12	15	5	148700	713.5	CP-OFDM QPSK	1@1	22.95	18.92	0.0780
12	15	5	148700	713.5	CP-OFDM QPSK	1@23	22.53	18.5	0.0708
12	15	10	146800	704	DFT-s-OFDM PI/2 BPSK	25@12	23.97	19.94	0.0986
12	15	10	146800	704	DFT-s-OFDM PI/2 BPSK	1@1	23.31	19.28	0.0847
12	15	10	146800	704	DFT-s-OFDM PI/2 BPSK	1@50	24.4	20.37	0.1089
12	15	10	146800	704	DFT-s-OFDM QPSK	25@12	24.03	20	0.1000
12	15	10	146800	704	DFT-s-OFDM QPSK	1@1	23.46	19.43	0.0877
12	15	10	146800	704	DFT-s-OFDM QPSK	1@50	24.6	20.57	0.1140
12	15	10	146800	704	DFT-s-OFDM 16 QAM	25@12	23	18.97	0.0789
12	15	10	146800	704	DFT-s-OFDM 16 QAM	1@1	22.52	18.49	0.0706
12	15	10	146800	704	DFT-s-OFDM 16 QAM	1@50	23.58	19.55	0.0902
12	15	10	146800	704	DFT-s-OFDM 64 QAM	25@12	21.63	17.6	0.0575
12	15	10	146800	704	DFT-s-OFDM 64 QAM	1@1	21.04	17.01	0.0502
12	15	10	146800	704	DFT-s-	1@50	22.05	18.02	0.0634

					OFDM 64 QAM				
12	15	10	146800	704	DFT-s-OFDM 256 QAM	25@12	19.46	15.43	0.0349
12	15	10	146800	704	DFT-s-OFDM 256 QAM	1@1	18.69	14.66	0.0292
12	15	10	146800	704	DFT-s-OFDM 256 QAM	1@50	19.79	15.76	0.0377
12	15	10	146800	704	CP-OFDM QPSK	26@13	22.52	18.49	0.0706
12	15	10	146800	704	CP-OFDM QPSK	1@1	21.78	17.75	0.0596
12	15	10	146800	704	CP-OFDM QPSK	1@50	23.03	19	0.0794
12	15	10	147500	707.5	DFT-s-OFDM PI/2 BPSK	25@12	24.42	20.39	0.1094
12	15	10	147500	707.5	DFT-s-OFDM PI/2 BPSK	1@1	23.88	19.85	0.0966
12	15	10	147500	707.5	DFT-s-OFDM PI/2 BPSK	1@50	24.27	20.24	0.1057
12	15	10	147500	707.5	DFT-s-OFDM QPSK	25@12	24.45	20.42	0.1102
12	15	10	147500	707.5	DFT-s-OFDM QPSK	1@1	24.02	19.99	0.0998
12	15	10	147500	707.5	DFT-s-OFDM QPSK	1@50	24.51	20.48	0.1117
12	15	10	147500	707.5	DFT-s-OFDM 16 QAM	25@12	23.45	19.42	0.0875
12	15	10	147500	707.5	DFT-s-OFDM 16 QAM	1@1	22.95	18.92	0.0780
12	15	10	147500	707.5	DFT-s-OFDM 16 QAM	1@50	23.49	19.46	0.0883
12	15	10	147500	707.5	DFT-s-OFDM 64 QAM	25@12	22.06	18.03	0.0635
12	15	10	147500	707.5	DFT-s-OFDM 64 QAM	1@1	21.45	17.42	0.0552
12	15	10	147500	707.5	DFT-s-OFDM 64 QAM	1@50	21.97	17.94	0.0622
12	15	10	147500	707.5	DFT-s-OFDM 256 QAM	25@12	19.21	15.18	0.0330
12	15	10	147500	707.5	DFT-s-OFDM 256 QAM	1@1	19.16	15.13	0.0326
12	15	10	147500	707.5	DFT-s-OFDM 256 QAM	1@50	19.74	15.71	0.0372
12	15	10	147500	707.5	CP-OFDM QPSK	26@13	22.95	18.92	0.0780
12	15	10	147500	707.5	CP-OFDM QPSK	1@1	22.27	18.24	0.0667
12	15	10	147500	707.5	CP-OFDM	1@50	22.84	18.81	0.0760

					QPSK				
12	15	10	148200	711	DFT-s-OFDM PI/2 BPSK	25@12	24.47	20.44	0.1107
12	15	10	148200	711	DFT-s-OFDM PI/2 BPSK	1@1	24.33	20.3	0.1072
12	15	10	148200	711	DFT-s-OFDM PI/2 BPSK	1@50	24.23	20.2	0.1047
12	15	10	148200	711	DFT-s-OFDM QPSK	25@12	24.45	20.42	0.1102
12	15	10	148200	711	DFT-s-OFDM QPSK	1@1	24.35	20.32	0.1076
12	15	10	148200	711	DFT-s-OFDM QPSK	1@50	24.34	20.31	0.1074
12	15	10	148200	711	DFT-s-OFDM 16 QAM	25@12	23.42	19.39	0.0869
12	15	10	148200	711	DFT-s-OFDM 16 QAM	1@1	23.44	19.41	0.0873
12	15	10	148200	711	DFT-s-OFDM 16 QAM	1@50	23.34	19.31	0.0853
12	15	10	148200	711	DFT-s-OFDM 64 QAM	25@12	22.1	18.07	0.0641
12	15	10	148200	711	DFT-s-OFDM 64 QAM	1@1	21.96	17.93	0.0621
12	15	10	148200	711	DFT-s-OFDM 64 QAM	1@50	21.89	17.86	0.0611
12	15	10	148200	711	DFT-s-OFDM 256 QAM	25@12	19.22	15.19	0.0330
12	15	10	148200	711	DFT-s-OFDM 256 QAM	1@1	19.56	15.53	0.0357
12	15	10	148200	711	DFT-s-OFDM 256 QAM	1@50	19.57	15.54	0.0358
12	15	10	148200	711	CP-OFDM QPSK	26@13	22.91	18.88	0.0773
12	15	10	148200	711	CP-OFDM QPSK	1@1	22.91	18.88	0.0773
12	15	10	148200	711	CP-OFDM QPSK	1@50	22.57	18.54	0.0714
12	15	15	147300	706.5	DFT-s-OFDM PI/2 BPSK	36@18	24.34	20.31	0.1074
12	15	15	147300	706.5	DFT-s-OFDM PI/2 BPSK	1@1	23.4	19.37	0.0865
12	15	15	147300	706.5	DFT-s-OFDM PI/2 BPSK	1@77	24.32	20.29	0.1069
12	15	15	147300	706.5	DFT-s-OFDM QPSK	36@18	24.35	20.32	0.1076
12	15	15	147300	706.5	DFT-s-OFDM QPSK	1@1	23.53	19.5	0.0891

12	15	15	147300	706.5	DFT-s-OFDM QPSK	1@77	24.5	20.47	0.1114
12	15	15	147300	706.5	DFT-s-OFDM 16 QAM	36@18	23.35	19.32	0.0855
12	15	15	147300	706.5	DFT-s-OFDM 16 QAM	1@1	22.62	18.59	0.0723
12	15	15	147300	706.5	DFT-s-OFDM 16 QAM	1@77	23.51	19.48	0.0887
12	15	15	147300	706.5	DFT-s-OFDM 64 QAM	36@18	21.87	17.84	0.0608
12	15	15	147300	706.5	DFT-s-OFDM 64 QAM	1@1	21.08	17.05	0.0507
12	15	15	147300	706.5	DFT-s-OFDM 64 QAM	1@77	21.98	17.95	0.0624
12	15	15	147300	706.5	DFT-s-OFDM 256 QAM	36@18	19.78	15.75	0.0376
12	15	15	147300	706.5	DFT-s-OFDM 256 QAM	1@1	18.88	14.85	0.0305
12	15	15	147300	706.5	DFT-s-OFDM 256 QAM	1@77	19.74	15.71	0.0372
12	15	15	147300	706.5	CP-OFDM QPSK	39@19	22.91	18.88	0.0773
12	15	15	147300	706.5	CP-OFDM QPSK	1@1	22.11	18.08	0.0643
12	15	15	147300	706.5	CP-OFDM QPSK	1@77	22.6	18.57	0.0719
12	15	15	147500	707.5	DFT-s-OFDM PI/2 BPSK	36@18	24.39	20.36	0.1086
12	15	15	147500	707.5	DFT-s-OFDM PI/2 BPSK	1@1	23.48	19.45	0.0881
12	15	15	147500	707.5	DFT-s-OFDM PI/2 BPSK	1@77	24.29	20.26	0.1062
12	15	15	147500	707.5	DFT-s-OFDM QPSK	36@18	24.43	20.4	0.1096
12	15	15	147500	707.5	DFT-s-OFDM QPSK	1@1	23.61	19.58	0.0908
12	15	15	147500	707.5	DFT-s-OFDM QPSK	1@77	24.49	20.46	0.1112
12	15	15	147500	707.5	DFT-s-OFDM 16 QAM	36@18	23.44	19.41	0.0873
12	15	15	147500	707.5	DFT-s-OFDM 16 QAM	1@1	22.67	18.64	0.0731
12	15	15	147500	707.5	DFT-s-OFDM 16 QAM	1@77	23.46	19.43	0.0877
12	15	15	147500	707.5	DFT-s-OFDM 64 QAM	36@18	21.97	17.94	0.0622
12	15	15	147500	707.5	DFT-s-	1@1	21.14	17.11	0.0514

					OFDM 64 QAM				
12	15	15	147500	707.5	DFT-s-OFDM 64 QAM	1@77	21.96	17.93	0.0621
12	15	15	147500	707.5	DFT-s-OFDM 256 QAM	36@18	19.21	15.18	0.0330
12	15	15	147500	707.5	DFT-s-OFDM 256 QAM	1@1	18.9	14.87	0.0307
12	15	15	147500	707.5	DFT-s-OFDM 256 QAM	1@77	19.7	15.67	0.0369
12	15	15	147500	707.5	CP-OFDM QPSK	39@19	22.97	18.94	0.0783
12	15	15	147500	707.5	CP-OFDM QPSK	1@1	21.96	17.93	0.0621
12	15	15	147500	707.5	CP-OFDM QPSK	1@77	22.67	18.64	0.0731
12	15	15	147700	708.5	DFT-s-OFDM PI/2 BPSK	36@18	24.48	20.45	0.1109
12	15	15	147700	708.5	DFT-s-OFDM PI/2 BPSK	1@1	23.65	19.62	0.0916
12	15	15	147700	708.5	DFT-s-OFDM PI/2 BPSK	1@77	24.35	20.32	0.1076
12	15	15	147700	708.5	DFT-s-OFDM QPSK	36@18	24.46	20.43	0.1104
12	15	15	147700	708.5	DFT-s-OFDM QPSK	1@1	23.8	19.77	0.0948
12	15	15	147700	708.5	DFT-s-OFDM QPSK	1@77	24.39	20.36	0.1086
12	15	15	147700	708.5	DFT-s-OFDM 16 QAM	36@18	23.51	19.48	0.0887
12	15	15	147700	708.5	DFT-s-OFDM 16 QAM	1@1	22.87	18.84	0.0766
12	15	15	147700	708.5	DFT-s-OFDM 16 QAM	1@77	23.43	19.4	0.0871
12	15	15	147700	708.5	DFT-s-OFDM 64 QAM	36@18	22.04	18.01	0.0632
12	15	15	147700	708.5	DFT-s-OFDM 64 QAM	1@1	21.33	17.3	0.0537
12	15	15	147700	708.5	DFT-s-OFDM 64 QAM	1@77	21.93	17.9	0.0617
12	15	15	147700	708.5	DFT-s-OFDM 256 QAM	36@18	19.21	15.18	0.0330
12	15	15	147700	708.5	DFT-s-OFDM 256 QAM	1@1	19.09	15.06	0.0321
12	15	15	147700	708.5	DFT-s-OFDM 256 QAM	1@77	19.69	15.66	0.0368
12	15	15	147700	708.5	CP-OFDM QPSK	39@19	23.03	19	0.0794

12	15	15	147700	708.5	CP-OFDM QPSK	1@1	22.31	18.28	0.0673
12	15	15	147700	708.5	CP-OFDM QPSK	1@77	22.57	18.54	0.0714

Frequency Stability

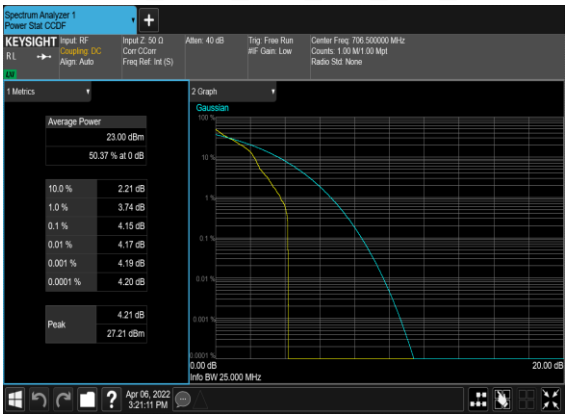
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	0.00692	**PASS**	NV
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	0.00596	**PASS**	LV
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	0.00246	**PASS**	HV
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	0.00617	**PASS**	-30℃
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	0.00579	**PASS**	-20℃
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	0.00037	**PASS**	-10℃
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	0.00557	**PASS**	0℃
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	0.00451	**PASS**	10℃
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	0.00036	**PASS**	20℃
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	0.00301	**PASS**	30℃
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	0.00665	**PASS**	40℃
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	0.00578	**PASS**	50℃

Peak to Average Radio

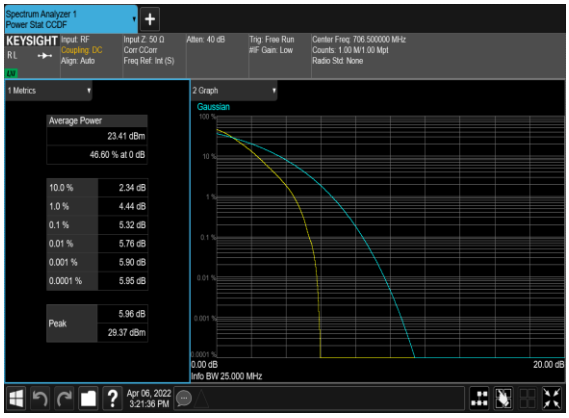
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
12	15	15	147300	706.5	DFT-s-OFDM PI/2 BPSK	75@0	4.03	13	**PASS**
12	15	15	147300	706.5	DFT-s-OFDM PI/2 BPSK	1@0	4.15	13	**PASS**
12	15	15	147300	706.5	DFT-s-OFDM QPSK	75@0	5.32	13	**PASS**
12	15	15	147300	706.5	DFT-s-OFDM QPSK	1@0	5.54	13	**PASS**
12	15	15	147500	707.5	DFT-s-OFDM PI/2 BPSK	75@0	3.84	13	**PASS**
12	15	15	147500	707.5	DFT-s-OFDM PI/2 BPSK	1@0	4.16	13	**PASS**
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	5.24	13	**PASS**
12	15	15	147500	707.5	DFT-s-OFDM QPSK	1@0	5.55	13	**PASS**
12	15	15	147700	708.5	DFT-s-OFDM PI/2 BPSK	75@0	3.88	13	**PASS**
12	15	15	147700	708.5	DFT-s-OFDM PI/2 BPSK	1@0	4.14	13	**PASS**
12	15	15	147700	708.5	DFT-s-OFDM QPSK	75@0	5.12	13	**PASS**
12	15	15	147700	708.5	DFT-s-OFDM QPSK	1@0	5.49	13	**PASS**

N12(15M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH

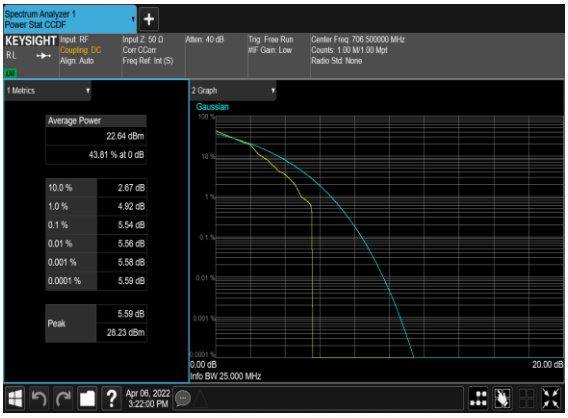
N12(15M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Low_CH



N12(15M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

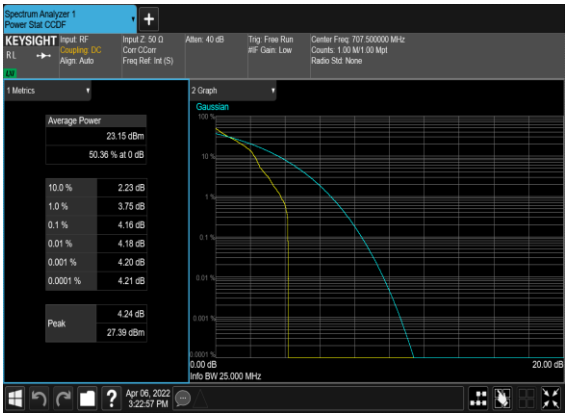


N12(15M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N12(15M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

N12(15M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Mid_CH

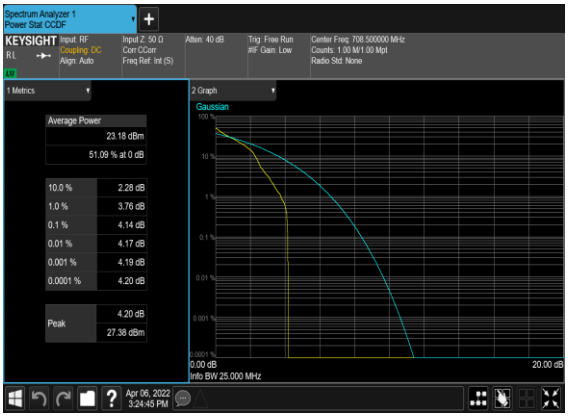


N12(15M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

N12(15M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

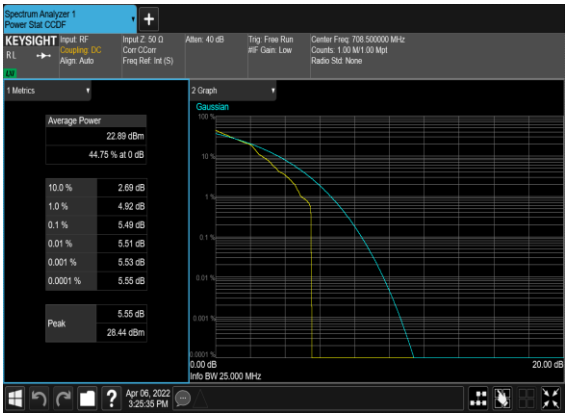
N12(15M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH

N12(15M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_High_CH



N12(15M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

N12(15M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



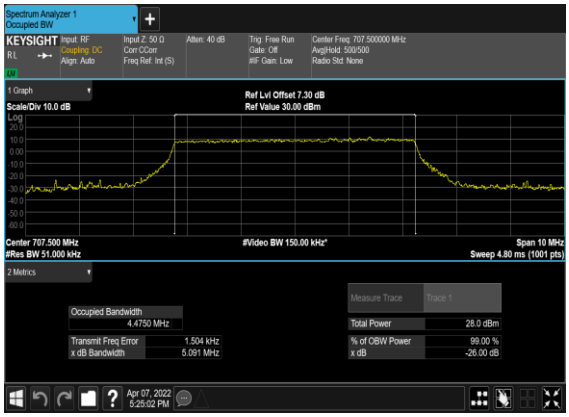
Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
12	15	5	147500	707.5	DFT-s-OFDM PI/2 BPSK	25@0	4.4838	5.026
12	15	5	147500	707.5	DFT-s-OFDM QPSK	25@0	4.4658	5.019
12	15	5	147500	707.5	CP-OFDM QPSK	25@0	4.475	5.091
12	15	5	147500	707.5	CP-OFDM 16 QAM	25@0	4.4828	5.195
12	15	5	147500	707.5	CP-OFDM 64 QAM	25@0	4.4607	5.091
12	15	5	147500	707.5	CP-OFDM 256 QAM	25@0	4.4762	5.003
12	15	10	147500	707.5	DFT-s-OFDM PI/2 BPSK	50@0	8.887	9.638
12	15	10	147500	707.5	DFT-s-OFDM QPSK	50@0	8.8902	9.653
12	15	10	147500	707.5	CP-OFDM QPSK	52@0	9.2595	10.06
12	15	10	147500	707.5	CP-OFDM 16 QAM	52@0	9.2613	9.893
12	15	10	147500	707.5	CP-OFDM 64 QAM	52@0	9.2394	9.882
12	15	10	147500	707.5	CP-OFDM 256 QAM	52@0	9.2628	9.969
12	15	15	147500	707.5	DFT-s-OFDM PI/2 BPSK	75@0	13.376	14.27
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	13.401	14.32
12	15	15	147500	707.5	CP-OFDM QPSK	79@0	14.079	14.91
12	15	15	147500	707.5	CP-OFDM 16 QAM	79@0	14.086	15.04
12	15	15	147500	707.5	CP-OFDM 64 QAM	79@0	14.09	14.89
12	15	15	147500	707.5	CP-OFDM 256 QAM	79@0	14.074	14.9

N12(5M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

N12(5M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

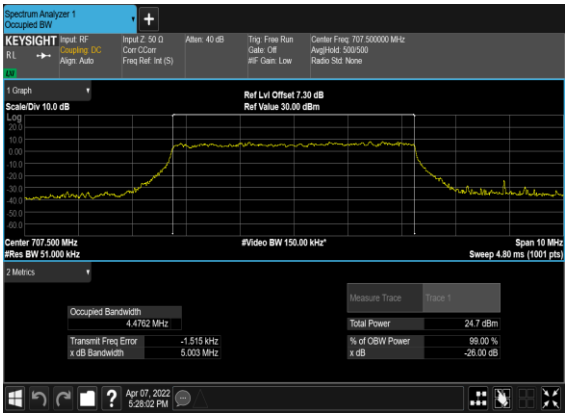
N12(5M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



N12(5M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

N12(5M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

N12(5M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

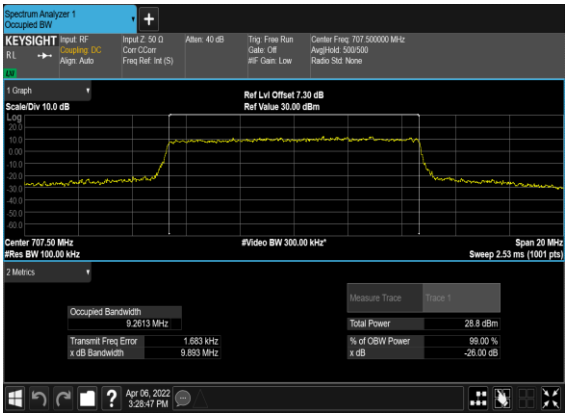


N12(10M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

N12(10M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

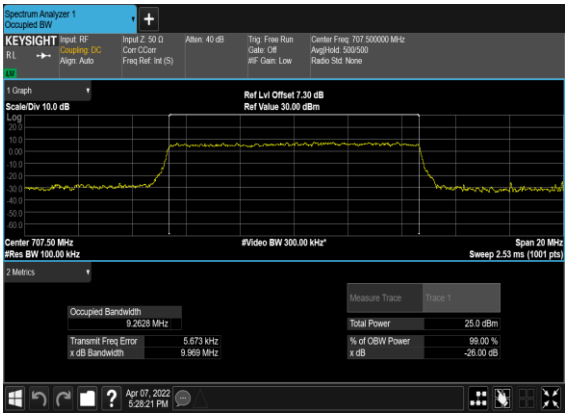
N12(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

N12(10M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

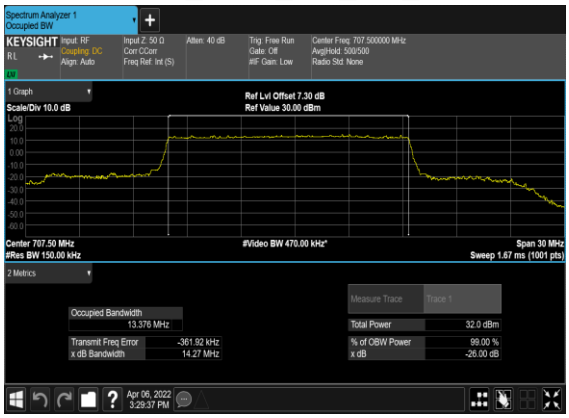


N12(10M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

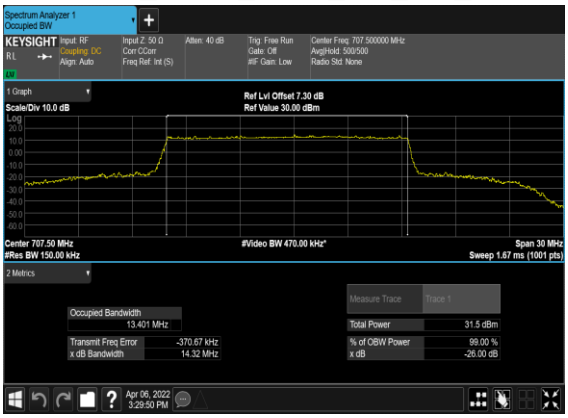
N12(10M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



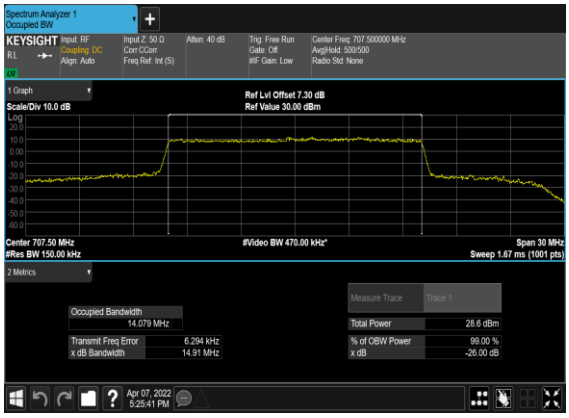
N12(15M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



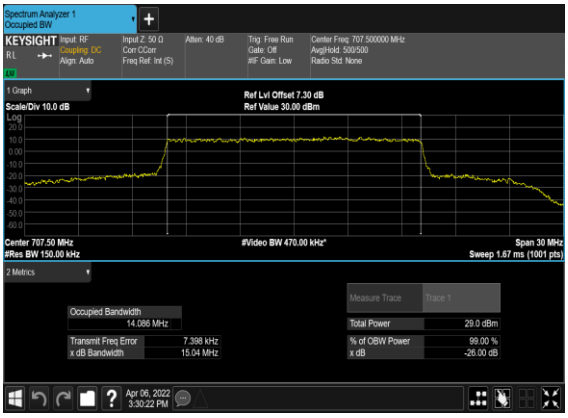
N12(15M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



N12(15M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



N12(15M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N12(15M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

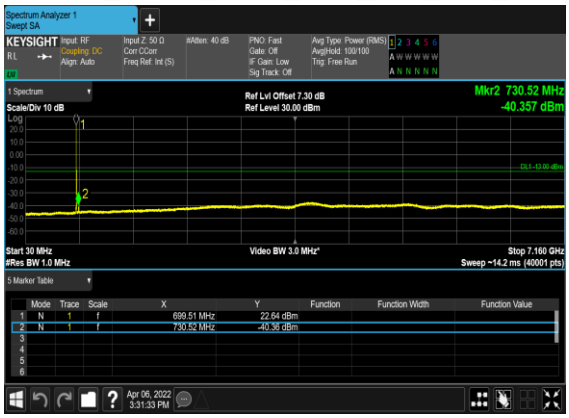
N12(15M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

Conducted Spurious Emissions

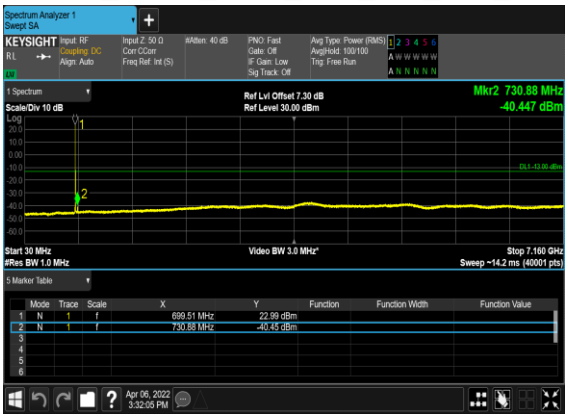
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
12	15	5	146300	701.5	DFT-s-OFDM BPSK	1@0	see graph	**---**
12	15	5	146300	701.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
12	15	5	146300	701.5	DFT-s-OFDM QPSK	1@0	see graph	**---**
12	15	5	146300	701.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
12	15	5	147500	707.5	DFT-s-OFDM BPSK	1@0	see graph	**---**
12	15	5	147500	707.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
12	15	5	147500	707.5	DFT-s-OFDM QPSK	1@0	see graph	**---**
12	15	5	147500	707.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
12	15	5	148700	713.5	DFT-s-OFDM BPSK	1@0	see graph	**---**
12	15	5	148700	713.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
12	15	5	148700	713.5	DFT-s-OFDM QPSK	1@0	see graph	**---**
12	15	5	148700	713.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
12	15	10	146800	704.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
12	15	10	146800	704.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
12	15	10	146800	704.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
12	15	10	146800	704.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
12	15	10	147500	707.5	DFT-s-OFDM BPSK	1@0	see graph	**---**
12	15	10	147500	707.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
12	15	10	147500	707.5	DFT-s-OFDM QPSK	1@0	see graph	**---**
12	15	10	147500	707.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
12	15	10	148200	711.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
12	15	10	148200	711.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**

12	15	10	148200	711.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
12	15	10	148200	711.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
12	15	15	147300	706.5	DFT-s-OFDM BPSK	1@0	see graph	**---**
12	15	15	147300	706.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
12	15	15	147300	706.5	DFT-s-OFDM QPSK	1@0	see graph	**---**
12	15	15	147300	706.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
12	15	15	147500	707.5	DFT-s-OFDM BPSK	1@0	see graph	**---**
12	15	15	147500	707.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
12	15	15	147500	707.5	DFT-s-OFDM QPSK	1@0	see graph	**---**
12	15	15	147500	707.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
12	15	15	147700	708.5	DFT-s-OFDM BPSK	1@0	see graph	**---**
12	15	15	147700	708.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
12	15	15	147700	708.5	DFT-s-OFDM QPSK	1@0	see graph	**---**
12	15	15	147700	708.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**

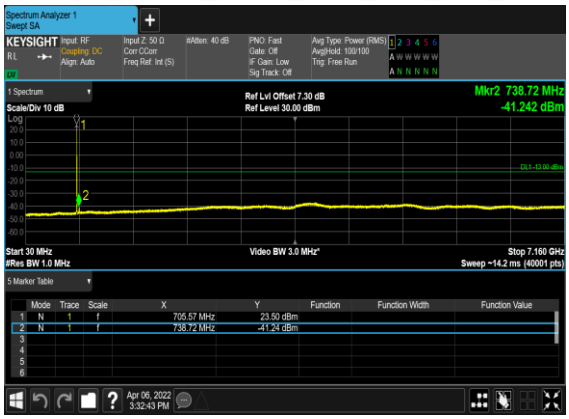
N12(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



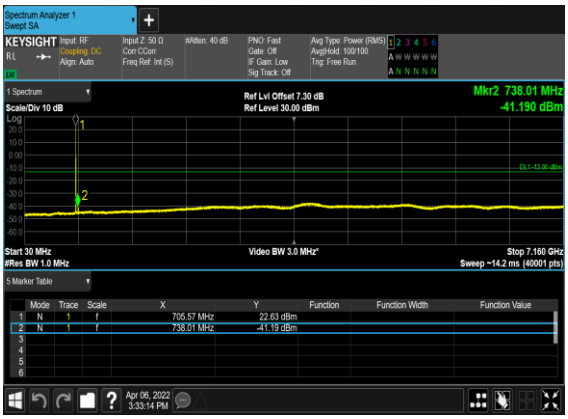
N12(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



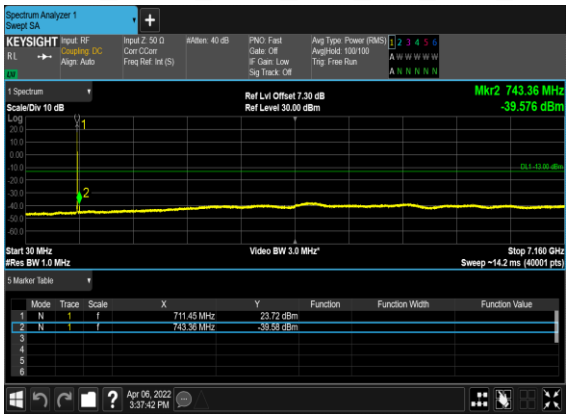
N12(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



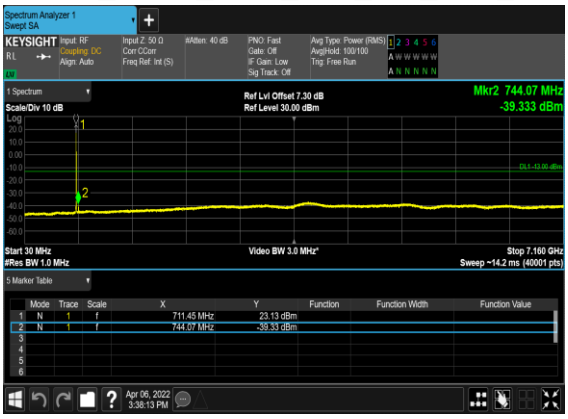
N12(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



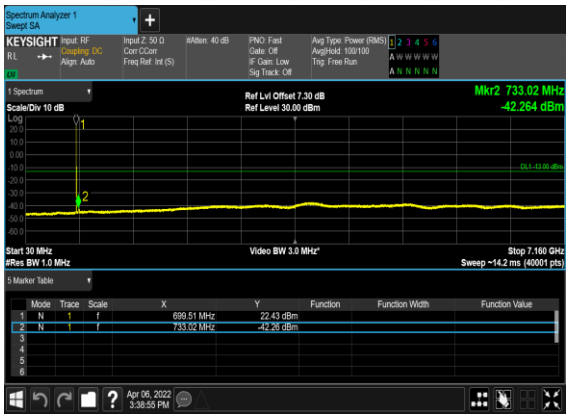
N12(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



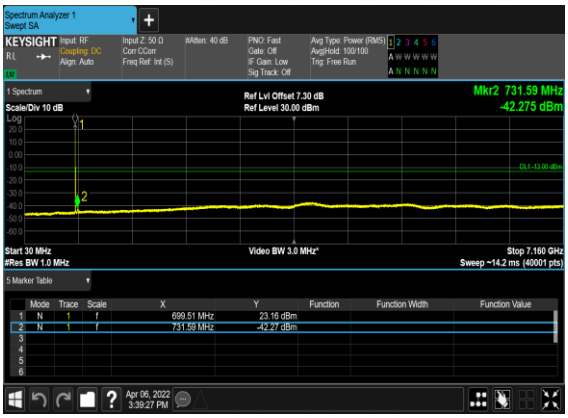
N12(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



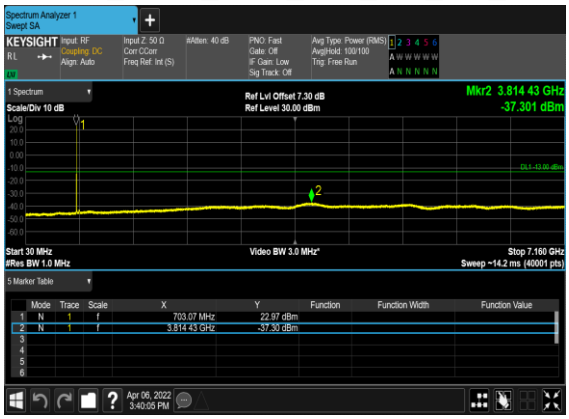
N12(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



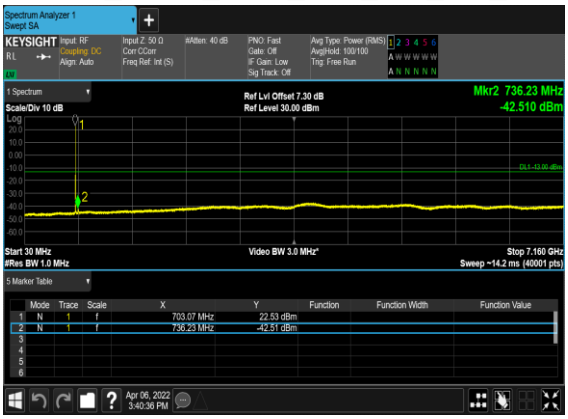
N12(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



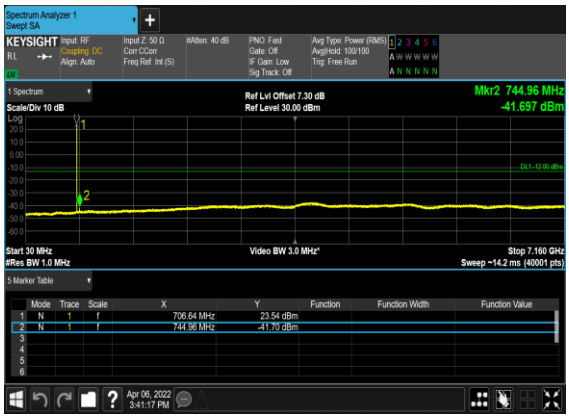
N12(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



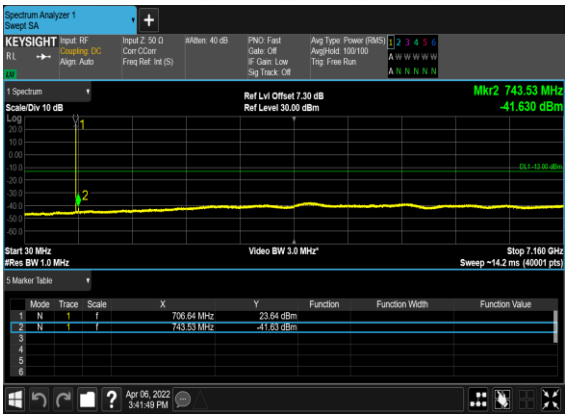
N12(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



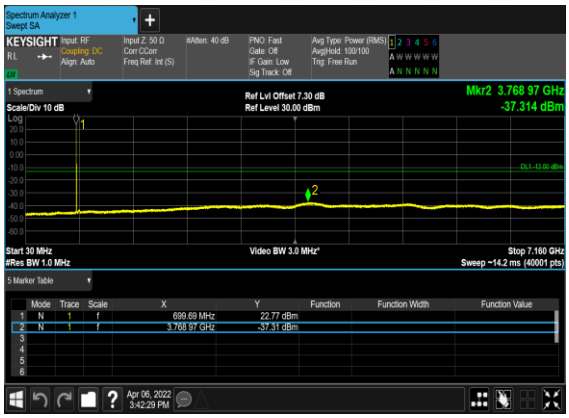
N12(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



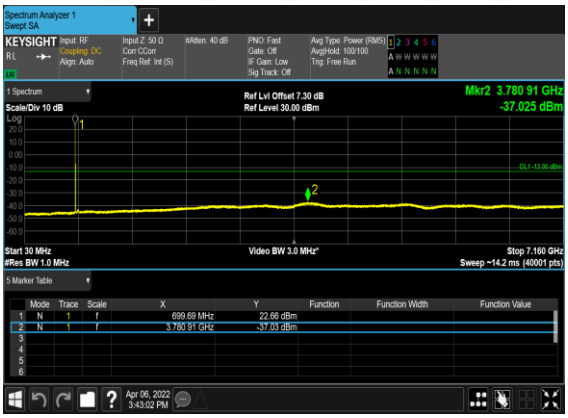
N12(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



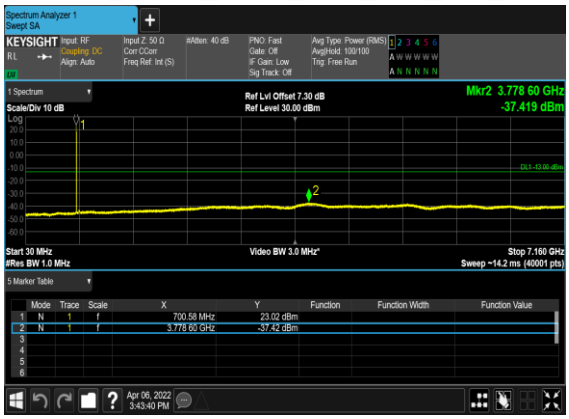
N12(15M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



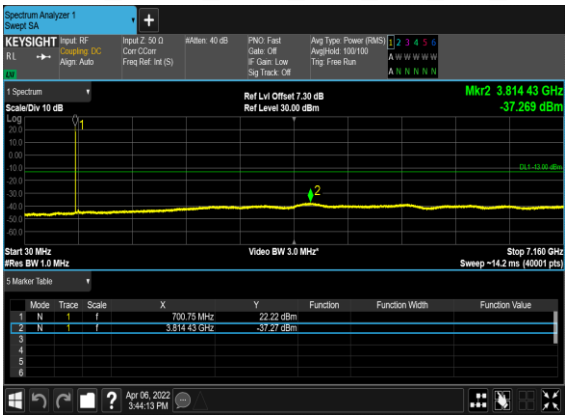
N12(15M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



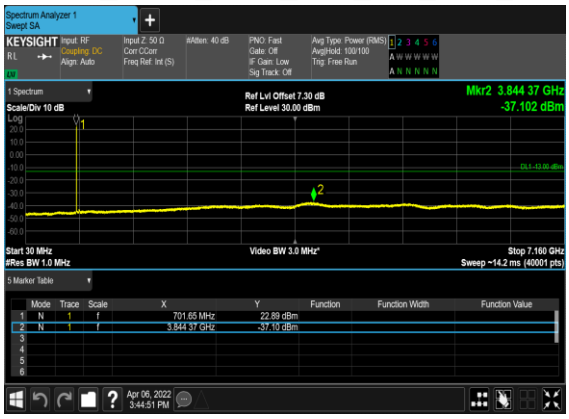
N12(15M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



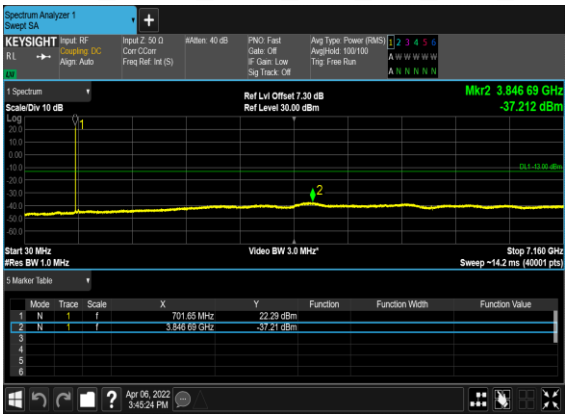
N12(15M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N12(15M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N12(15M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



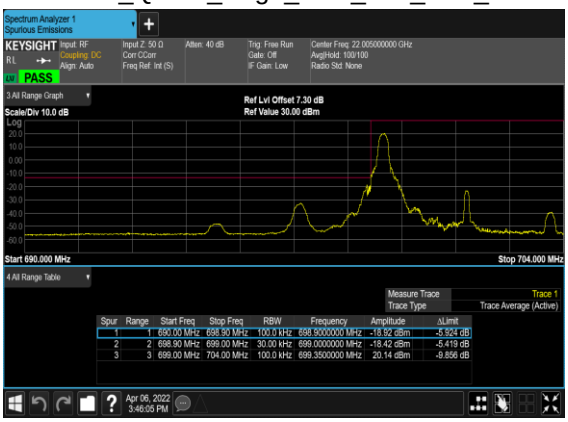
Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
12	15	5	146300	701.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
12	15	5	146300	701.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
12	15	5	146300	701.5	DFT-s-OFDM BPSK	25@0	see graph	**PASS**
12	15	5	146300	701.5	DFT-s-OFDM QPSK	25@0	see graph	**PASS**
12	15	5	148700	713.5	DFT-s-OFDM BPSK	1@24	see graph	**PASS**
12	15	5	148700	713.5	DFT-s-OFDM QPSK	1@24	see graph	**PASS**
12	15	5	148700	713.5	DFT-s-OFDM BPSK	25@0	see graph	**PASS**
12	15	5	148700	713.5	DFT-s-OFDM QPSK	25@0	see graph	**PASS**
12	15	10	146800	704.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
12	15	10	146800	704.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
12	15	10	146800	704.0	DFT-s-OFDM BPSK	50@0	see graph	**PASS**
12	15	10	146800	704.0	DFT-s-OFDM QPSK	50@0	see graph	**PASS**
12	15	10	148200	711.0	DFT-s-OFDM BPSK	1@51	see graph	**PASS**
12	15	10	148200	711.0	DFT-s-OFDM QPSK	1@51	see graph	**PASS**
12	15	10	148200	711.0	DFT-s-OFDM BPSK	50@0	see graph	**PASS**
12	15	10	148200	711.0	DFT-s-OFDM QPSK	50@0	see graph	**PASS**
12	15	15	147300	706.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
12	15	15	147300	706.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
12	15	15	147300	706.5	DFT-s-OFDM BPSK	75@0	see graph	**PASS**
12	15	15	147300	706.5	DFT-s-OFDM QPSK	75@0	see graph	**PASS**
12	15	15	147700	708.5	DFT-s-OFDM BPSK	1@78	see graph	**PASS**
12	15	15	147700	708.5	DFT-s-OFDM QPSK	1@78	see graph	**PASS**

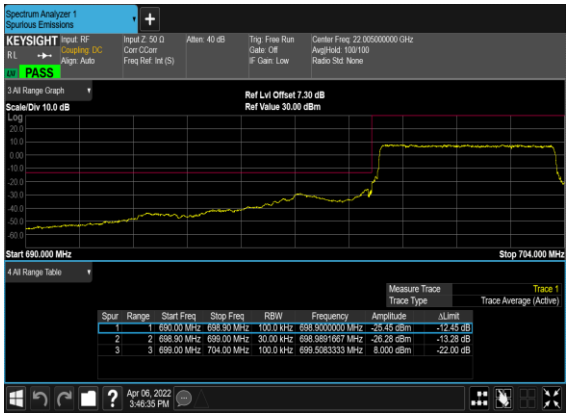
12	15	15	147700	708.5	DFT-s-OFDM BPSK	75@0	see graph	**PASS**
12	15	15	147700	708.5	DFT-s-OFDM QPSK	75@0	see graph	**PASS**

N12(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

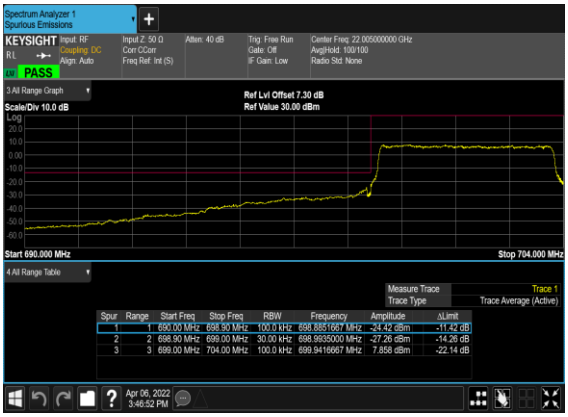
N12(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



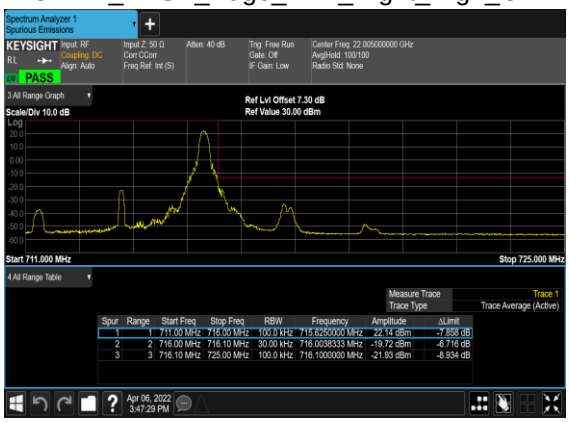
N12(5M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



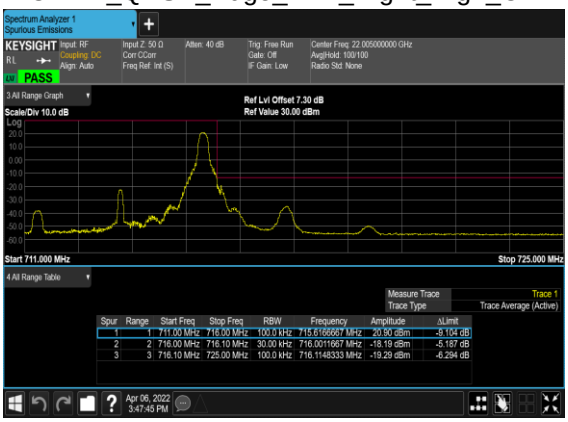
N12(5M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



N12(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



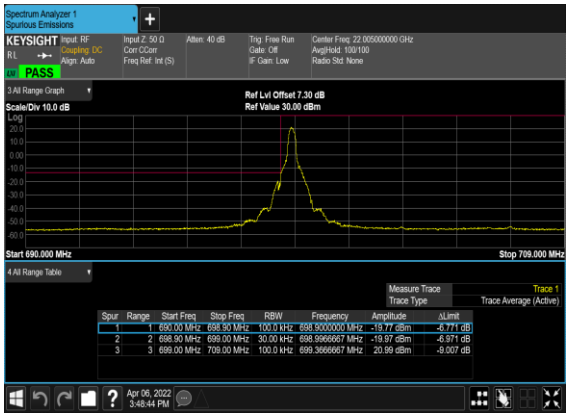
N12(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



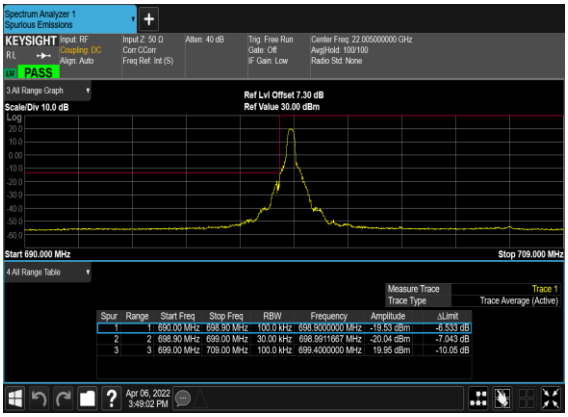
N12(5M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH

N12(5M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

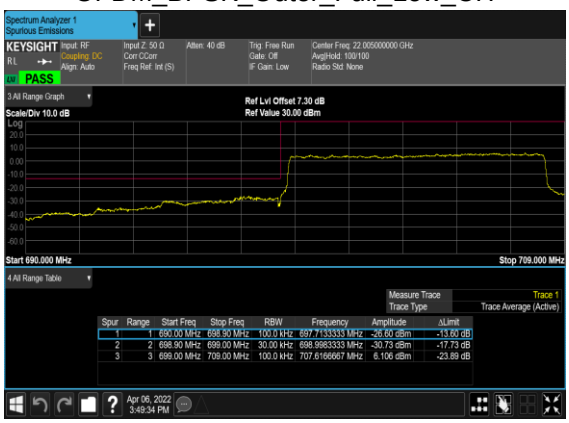
N12(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



N12(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

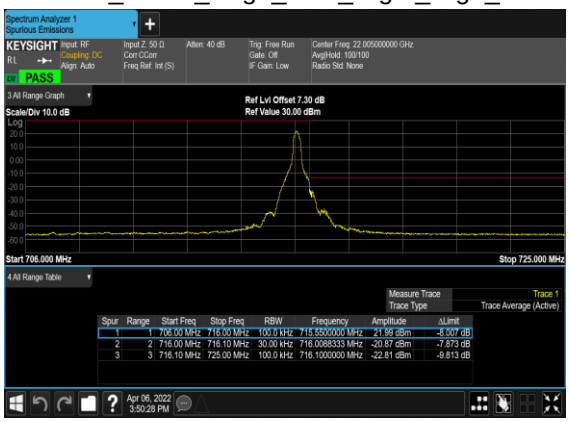


N12(10M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

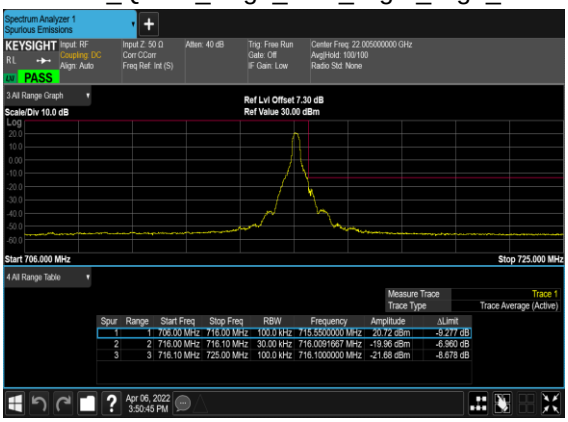


N12(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

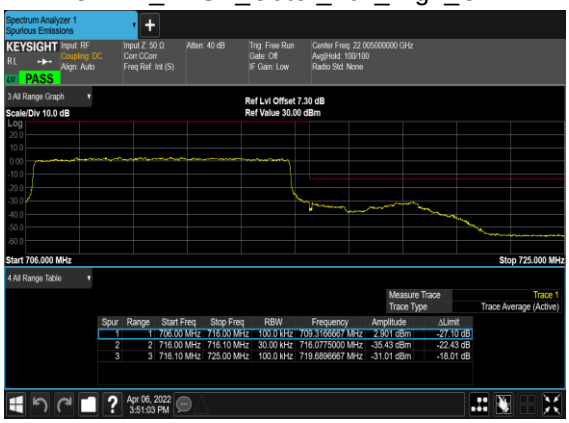
N12(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



N12(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH

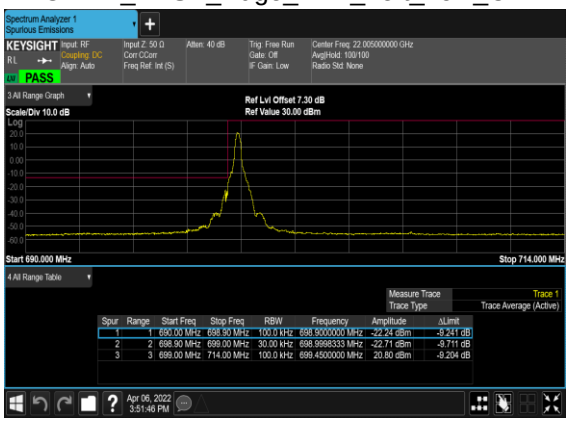


N12(10M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH

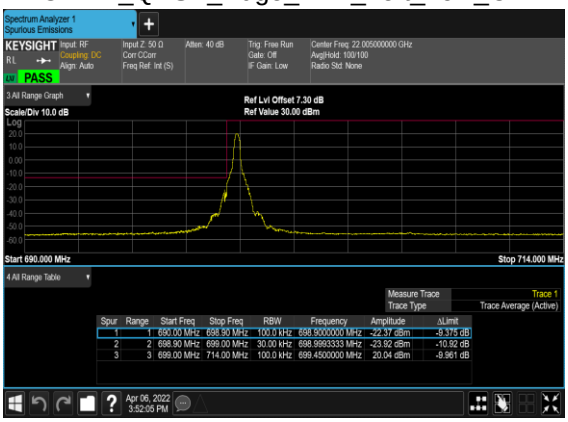


N12(10M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

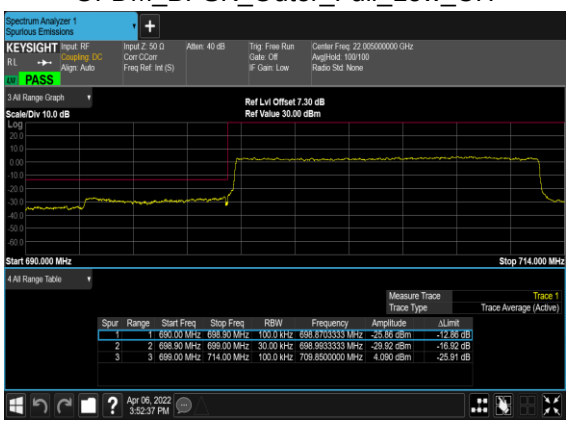
N12(15M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



N12(15M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

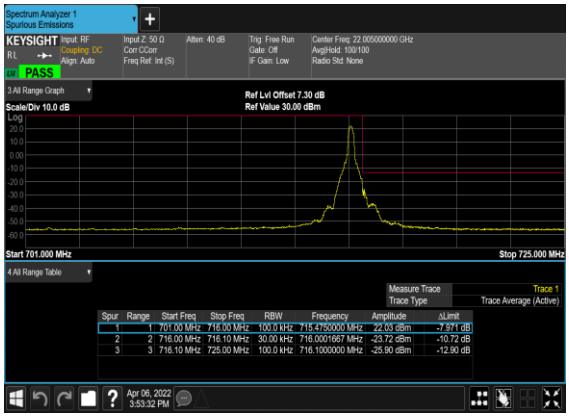


N12(15M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

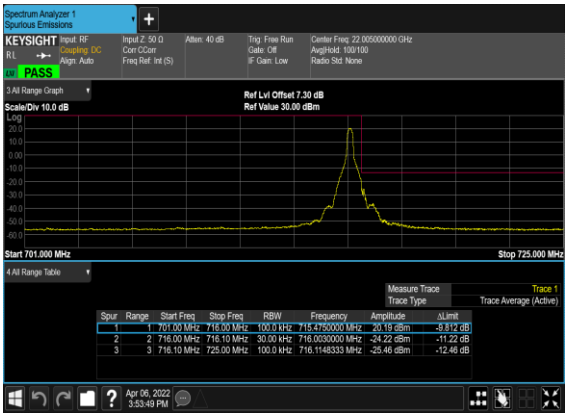


N12(15M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

N12(15M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



N12(15M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



N12(15M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH

N12(15M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

Software Version: 22.02.012801

FR1 N13 (Ant0_Max Conducted Power)

Transmitter Conducted Output Power And EIRP, (G_T - L_C)= -3.89dBi

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	ERP(dBm)	ERP(W)
13	15	5	149700	779.5	DFT-s-OFDM PI/2 BPSK	12@6	24.37	18.33	0.0681
13	15	5	149700	779.5	DFT-s-OFDM PI/2 BPSK	1@1	24.41	18.37	0.0687
13	15	5	149700	779.5	DFT-s-OFDM PI/2 BPSK	1@23	24.32	18.28	0.0673
13	15	5	149700	779.5	DFT-s-OFDM QPSK	12@6	24.49	18.45	0.0700
13	15	5	149700	779.5	DFT-s-OFDM QPSK	1@1	24.31	18.27	0.0671
13	15	5	149700	779.5	DFT-s-OFDM QPSK	1@23	24.32	18.28	0.0673
13	15	5	149700	779.5	DFT-s-OFDM 16 QAM	12@6	23.29	17.25	0.0531
13	15	5	149700	779.5	DFT-s-OFDM 16 QAM	1@1	23.5	17.46	0.0557
13	15	5	149700	779.5	DFT-s-OFDM 16 QAM	1@23	23.45	17.41	0.0551
13	15	5	149700	779.5	DFT-s-OFDM 64 QAM	12@6	21.94	15.9	0.0389
13	15	5	149700	779.5	DFT-s-OFDM 64 QAM	1@1	21.76	15.72	0.0373
13	15	5	149700	779.5	DFT-s-OFDM 64 QAM	1@23	21.93	15.89	0.0388
13	15	5	149700	779.5	DFT-s-OFDM 256 QAM	12@6	19.84	13.8	0.0240
13	15	5	149700	779.5	DFT-s-OFDM 256 QAM	1@1	19.66	13.62	0.0230
13	15	5	149700	779.5	DFT-s-OFDM 256 QAM	1@23	19.61	13.57	0.0228
13	15	5	149700	779.5	CP-OFDM QPSK	13@6	22.92	16.88	0.0488
13	15	5	149700	779.5	CP-OFDM QPSK	1@1	22.79	16.75	0.0473
13	15	5	149700	779.5	CP-OFDM QPSK	1@23	22.94	16.9	0.0490
13	15	5	150200	782	DFT-s-OFDM PI/2 BPSK	12@6	24.39	18.35	0.0684
13	15	5	150200	782	DFT-s-	1@1	24.36	18.32	0.0679

					OFDM PI/2 BPSK				
13	15	5	150200	782	DFT-s-OFDM PI/2 BPSK	1@23	24.36	18.32	0.0679
13	15	5	150200	782	DFT-s-OFDM QPSK	12@6	24.41	18.37	0.0687
13	15	5	150200	782	DFT-s-OFDM QPSK	1@1	24.51	18.47	0.0703
13	15	5	150200	782	DFT-s-OFDM QPSK	1@23	24.41	18.37	0.0687
13	15	5	150200	782	DFT-s-OFDM 16 QAM	12@6	23.28	17.24	0.0530
13	15	5	150200	782	DFT-s-OFDM 16 QAM	1@1	23.49	17.45	0.0556
13	15	5	150200	782	DFT-s-OFDM 16 QAM	1@23	23.53	17.49	0.0561
13	15	5	150200	782	DFT-s-OFDM 64 QAM	12@6	21.91	15.87	0.0386
13	15	5	150200	782	DFT-s-OFDM 64 QAM	1@1	22.02	15.98	0.0396
13	15	5	150200	782	DFT-s-OFDM 64 QAM	1@23	22	15.96	0.0394
13	15	5	150200	782	DFT-s-OFDM 256 QAM	12@6	19.82	13.78	0.0239
13	15	5	150200	782	DFT-s-OFDM 256 QAM	1@1	19.67	13.63	0.0231
13	15	5	150200	782	DFT-s-OFDM 256 QAM	1@23	19.69	13.65	0.0232
13	15	5	150200	782	CP-OFDM QPSK	13@6	22.91	16.87	0.0486
13	15	5	150200	782	CP-OFDM QPSK	1@1	22.73	16.69	0.0467
13	15	5	150200	782	CP-OFDM QPSK	1@23	22.64	16.6	0.0457
13	15	5	150700	784.5	DFT-s-OFDM PI/2 BPSK	12@6	24.41	18.37	0.0687
13	15	5	150700	784.5	DFT-s-OFDM PI/2 BPSK	1@1	24.44	18.4	0.0692
13	15	5	150700	784.5	DFT-s-OFDM PI/2 BPSK	1@23	24.25	18.21	0.0662
13	15	5	150700	784.5	DFT-s-OFDM QPSK	12@6	24.44	18.4	0.0692
13	15	5	150700	784.5	DFT-s-OFDM QPSK	1@1	24.56	18.52	0.0711
13	15	5	150700	784.5	DFT-s-OFDM QPSK	1@23	24.35	18.31	0.0678
13	15	5	150700	784.5	DFT-s-OFDM 16	12@6	23.33	17.29	0.0536

					QAM				
13	15	5	150700	784.5	DFT-s-OFDM 16 QAM	1@1	23.49	17.45	0.0556
13	15	5	150700	784.5	DFT-s-OFDM 16 QAM	1@23	23.48	17.44	0.0555
13	15	5	150700	784.5	DFT-s-OFDM 64 QAM	12@6	21.94	15.9	0.0389
13	15	5	150700	784.5	DFT-s-OFDM 64 QAM	1@1	21.93	15.89	0.0388
13	15	5	150700	784.5	DFT-s-OFDM 64 QAM	1@23	21.97	15.93	0.0392
13	15	5	150700	784.5	DFT-s-OFDM 256 QAM	12@6	19.83	13.79	0.0239
13	15	5	150700	784.5	DFT-s-OFDM 256 QAM	1@1	19.56	13.52	0.0225
13	15	5	150700	784.5	DFT-s-OFDM 256 QAM	1@23	19.62	13.58	0.0228
13	15	5	150700	784.5	CP-OFDM QPSK	13@6	22.95	16.91	0.0491
13	15	5	150700	784.5	CP-OFDM QPSK	1@1	22.66	16.62	0.0459
13	15	5	150700	784.5	CP-OFDM QPSK	1@23	22.54	16.5	0.0447
13	15	10	150200	782	DFT-s-OFDM PI/2 BPSK	25@12	24.4	18.36	0.0685
13	15	10	150200	782	DFT-s-OFDM PI/2 BPSK	1@1	24.45	18.41	0.0693
13	15	10	150200	782	DFT-s-OFDM PI/2 BPSK	1@50	24.25	18.21	0.0662
13	15	10	150200	782	DFT-s-OFDM QPSK	25@12	24.42	18.38	0.0689
13	15	10	150200	782	DFT-s-OFDM QPSK	1@1	24.48	18.44	0.0698
13	15	10	150200	782	DFT-s-OFDM QPSK	1@50	24.37	18.33	0.0681
13	15	10	150200	782	DFT-s-OFDM 16 QAM	25@12	23.45	17.41	0.0551
13	15	10	150200	782	DFT-s-OFDM 16 QAM	1@1	23.42	17.38	0.0547
13	15	10	150200	782	DFT-s-OFDM 16 QAM	1@50	23.53	17.49	0.0561
13	15	10	150200	782	DFT-s-OFDM 64 QAM	25@12	22.08	16.04	0.0402
13	15	10	150200	782	DFT-s-OFDM 64 QAM	1@1	21.83	15.79	0.0379
13	15	10	150200	782	DFT-s-OFDM 64 QAM	1@50	22.02	15.98	0.0396

13	15	10	150200	782	DFT-s-OFDM 256 QAM	25@12	19.85	13.81	0.0240
13	15	10	150200	782	DFT-s-OFDM 256 QAM	1@1	19.75	13.71	0.0235
13	15	10	150200	782	DFT-s-OFDM 256 QAM	1@50	19.7	13.66	0.0232
13	15	10	150200	782	CP-OFDM QPSK	26@13	22.88	16.84	0.0483
13	15	10	150200	782	CP-OFDM QPSK	1@1	22.56	16.52	0.0449
13	15	10	150200	782	CP-OFDM QPSK	1@50	22.65	16.61	0.0458

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
13	15	5	150200	782.0	DFT-s-OFDM QPSK	25@0	0.00063	**PASS**	NV
13	15	5	150200	782.0	DFT-s-OFDM QPSK	25@0	0.00327	**PASS**	LV
13	15	5	150200	782.0	DFT-s-OFDM QPSK	25@0	0.00211	**PASS**	HV
13	15	5	150200	782.0	DFT-s-OFDM QPSK	25@0	0.00482	**PASS**	-30℃
13	15	5	150200	782.0	DFT-s-OFDM QPSK	25@0	0.00046	**PASS**	-20℃
13	15	5	150200	782.0	DFT-s-OFDM QPSK	25@0	0.00273	**PASS**	-10℃
13	15	5	150200	782.0	DFT-s-OFDM QPSK	25@0	0.00425	**PASS**	0℃
13	15	5	150200	782.0	DFT-s-OFDM QPSK	25@0	0.00236	**PASS**	10℃
13	15	5	150200	782.0	DFT-s-OFDM QPSK	25@0	0.00362	**PASS**	20℃
13	15	5	150200	782.0	DFT-s-OFDM QPSK	25@0	0.00459	**PASS**	30℃
13	15	5	150200	782.0	DFT-s-OFDM QPSK	25@0	0.00233	**PASS**	40℃
13	15	5	150200	782.0	DFT-s-OFDM QPSK	25@0	0.00302	**PASS**	50℃

Peak to Average Radio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
13	15	5	149700	779.5	DFT-s-OFDM PI/2 BPSK	25@0	3.92	13	**PASS**
13	15	5	149700	779.5	DFT-s-OFDM PI/2 BPSK	1@0	3.99	13	**PASS**
13	15	5	149700	779.5	DFT-s-OFDM QPSK	25@0	5.19	13	**PASS**
13	15	5	149700	779.5	DFT-s-OFDM QPSK	1@0	5.33	13	**PASS**
13	15	5	150200	782.0	DFT-s-OFDM PI/2 BPSK	25@0	3.81	13	**PASS**
13	15	5	150200	782.0	DFT-s-OFDM PI/2 BPSK	1@0	4.05	13	**PASS**
13	15	5	150200	782.0	DFT-s-OFDM QPSK	25@0	5.23	13	**PASS**
13	15	5	150200	782.0	DFT-s-OFDM QPSK	1@0	5.44	13	**PASS**
13	15	5	150700	784.5	DFT-s-OFDM PI/2 BPSK	25@0	3.81	13	**PASS**
13	15	5	150700	784.5	DFT-s-OFDM PI/2 BPSK	1@0	4.07	13	**PASS**
13	15	5	150700	784.5	DFT-s-OFDM QPSK	25@0	5.34	13	**PASS**
13	15	5	150700	784.5	DFT-s-OFDM QPSK	1@0	5.51	13	**PASS**