



FCC RF Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2201-3, XT2201-5
FCC ID : IHDT56AB2
STANDARD : 47 CFR Part 2, 27
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Nov. 30, 2021 ~ Jan. 01, 2022

We, Sporton International (Kunshan) Inc., 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.

This report contains data that were produced under subcontract by Sporton International (ShenZhen) Inc.

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

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG192317-01G	Rev. 01	Initial issue of report	Jan. 10, 2022



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§27.50(h)(2)	Equivalent Isotropic Radiated Power (5G NR n7, n41)	EIRP < 2Watt		
	§27.50(j)(3)	Equivalent Isotropic Radiated Power (5G NR n77, n78)	EIRP < 1Watt		
3.5	§27.50(j)(4)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §27.53(l)(2)	Conducted Band Edge Measurement (5G NR n77, n78)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (5G NR n7, n41)	§27.53(m)(4)		
3.8	§2.1051 §27.53(l)(2)	Conducted Spurious Emission (5G NR n77, n78)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (5G NR n7, n41)	< 55+10log ₁₀ (P[Watts])		
3.9	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§2.1053 §27.53(l)(2)	Radiated Spurious Emission (5G NR n77, n78)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 19.14 dB at 7576.000 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (5G NR n7, n41)	< 55+10log ₁₀ (P[Watts])		

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

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2201-3, XT2201-5
FCC ID	IHDT56AB2
IMEI Code	Conducted : 355386390008336 Radiation: 355386390007494
HW Version	DVT2
SW Version	SSH32.76
EUT Stage	Identical Prototype

Remark:

1. The different model name is for different market purpose.
2. Only 5G NR bands 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 n7 : 2500 MHz ~ 2570 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n77: 3700 MHz ~ 3980 MHz 5G NR n78: 3700 MHz ~ 3800 MHz
Rx Frequency	5G NR n7 : 2620 MHz ~ 2690 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n77: 3700 MHz ~ 3980 MHz 5G NR n78: 3700 MHz ~ 3800 MHz
Bandwidth	n7(SA/NSA): 5MHz / 10MHz / 15MHz / 20MHz / 25MHz / 30MHz / 40MHz n41(SA/NSA): 20MHz / 30MHz / 40MHz / 50MHz / 60MHz / 70MHz / 80MHz / 90MHz / 100MHz n77/n78(SA): 20MHz / 30MHz / 40MHz / 50MHz / 60MHz / 70MHz / 80MHz / 90MHz / 100MHz
Antenna Gain	<Ant. 0> n41: 1.0 dBi <Ant. 1> n7: -0.9 dBi n41: -0.3 dBi <Ant. 2> n77: -0.3 dBi n78: -0.3 dBi <Ant. 7> n78: -0.2 dBi
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

Note:

1. The maximum EIRP is calculated from max output power and max antenna gain, only the maximum EIRP is shown in the report: n41 for Antenna 0, n7 for Antenna 1 and n77/n78 for Antenna 2.
2. 5G NR Bands support SA mode for n7/n41/n77/n78 and NSA mode for n7/n41.
3. For SA and NSA mode, the whole testing has assessed NSA mode for n7 and SA mode for n41 by referring to the higher conducted power for conducted test items.
4. For NSA mode of all EN-DC combination, we only show the combination of the maximum power among all NSA combinations in the report.
5. The EN-DC mode combination could be referred to the product spec.
6. 5G NR n41/n77/78 supports HPUE mode, and 5G NR n41 supports HPUE mode only for SA mode.
7. 5G NR n78 support UL MIMO mode.

1.5 Specification of Accessory

Specification of Accessory				
AC Adapter 1	Brand Name	Motorola(Salom)	Model Name	MC-301
AC Adapter 2	Brand Name	Motorola(Acbel)	Model Name	MC-301
Battery	Brand Name	Motorola(ATL)	Model Name	NA50
Earphone	Brand Name	Motorola (Lyand)	Model Name	MD211(SH38D20195)
USB Cable 1	Brand Name	Motorola(Saibao)	Model Name	SC18D13215
USB Cable 2	Brand Name	Motorola(Cabletech)	Model Name	SC18D13216
USB Cable 3	Brand Name	Motorola(Luxshare)	Model Name	SC18D13217
Type C to HDMI Cable /USBC Cable	Brand Name	Motorola(Linxee)	Model Name	SC18D02146
Stylus	Brand Name	Motorola smart stylus	Model Name	XT2201-S
Smart Folio	Brand Name	Motorola(Techson)	Model Name	SS68D36907,SS68D36906
Wireless Dongle	Brand Name	Motorola	Model Name	MD-02
HDMI Cable	Brand Name	Motorola	Model Name	HC-01
USB Cable(Type A/C)	Brand Name	Motorola	Model Name	SC18C24367

1.6 Modification of EUT

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

1.7 Maximum EIRP and Emission Designator

5G NR n7 NSA (EN DC_66A-n7A)		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2502.5 ~ 2567.5	0.1641	4M48G7D	0.1629	4M50W7D
10	2505.0 ~ 2565.0	0.1656	9M28G7D	0.1641	9M30W7D
15	2507.5 ~ 2562.5	0.1710	14M1G7D	0.1702	14M1W7D
20	2510.0 ~ 2560.0	0.1714	18M9G7D	0.1714	19M0W7D
25	2512.5 ~ 2557.5	0.1803	23M7G7D	0.1750	23M7W7D
30	2515.0 ~ 2555.0	0.1791	28M5G7D	0.1706	28M6W7D
40	2520.0 ~ 2550.0	0.1750	38M6G7D	0.1734	38M5W7D



5G NR n41 SA		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)
20	2506.02 ~ 2679.99	0.4508	18M2G7D	0.4102	18M2W7D
30	2511.00 ~ 2674.98	0.4842	27M9G7D	0.4188	27M9W7D
40	2516.01 ~ 2670.00	0.4529	37M8G7D	0.4111	37M9W7D
50	2521.02 ~ 2664.99	0.4406	47M5G7D	0.4009	47M6W7D
60	2526.00 ~ 2659.98	0.4375	58M0G7D	0.4009	57M9W7D
70	2531.01 ~ 2655.00	0.4207	67M5G7D	0.3819	67M6W7D
80	2536.02 ~ 2649.99	0.4236	77M5G7D	0.3828	77M6W7D
90	2541.00 ~ 2644.98	0.4335	87M6G7D	0.3864	87M7W7D
100	2546.01 ~ 2640.00	0.4395	97M5G7D	0.3954	97M6W7D

5G NR n77 SA		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)
20	3710.01 ~ 3969.99	0.3972	18M2G7D	0.3311	18M2W7D
30	3715.02 ~ 3964.98	0.3945	27M8G7D	0.3228	27M8W7D
40	3720.00 ~ 3960.00	0.4111	37M8G7D	0.3334	37M8W7D
50	3725.01 ~ 3954.99	0.3758	47M5G7D	0.3155	47M5W7D
60	3730.02 ~ 3949.98	0.3733	58M0G7D	0.3090	57M9W7D
70	3735.00 ~ 3945.00	0.3597	67M4G7D	0.3013	67M5W7D
80	3740.01 ~ 3939.99	0.3639	77M4G7D	0.3006	77M5W7D
90	3745.02 ~ 3934.98	0.3581	87M4G7D	0.2985	87M6W7D
100	3750.00 ~ 3930.00	0.3606	97M3G7D	0.2938	97M5W7D



5G NR n78 SA		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)
20	3710.01 ~ 3789.99	0.3350	18M2G7D	0.3199	18M2W7D
30	3715.02 ~ 3784.98	0.3436	27M8G7D	0.3214	27M8W7D
40	3720.00 ~ 3780.00	0.3828	37M8G7D	0.3342	37M8W7D
50	3725.01 ~ 3774.99	0.3296	47M5G7D	0.3126	47M5W7D
60	3730.02 ~ 3769.98	0.3581	58M0G7D	0.3069	57M9W7D
70	3735.00 ~ 3765.00	0.3258	67M4G7D	0.3013	67M5W7D
80	3740.01 ~ 3759.99	0.3243	77M4G7D	0.3076	77M5W7D
90	3745.02 ~ 3754.98	0.3221	87M4G7D	0.3083	87M6W7D
100	3750.00 ~ 3750.00	0.3126	97M3G7D	0.3013	97M5W7D

5G NR n78 UL MIMO		PI/2 BPSK /QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
20	3710.01 ~ 3789.99	0.5877	18M2G7D	0.5415	18M2W7D
30	3715.02 ~ 3784.98	0.6289	27M9G7D	0.5855	27M8W7D
40	3720.00 ~ 3780.00	0.7312	37M8G7D	0.5932	38M0W7D
50	3725.01 ~ 3774.99	0.6104	47M5G7D	0.5547	47M6W7D
60	3730.02 ~ 3769.98	0.6110	57M9G7D	0.5572	57M8W7D
70	3735.00 ~ 3765.00	0.6040	67M5G7D	0.5445	67M5W7D
80	3740.01 ~ 3759.99	0.5944	77M4G7D	0.5540	77M6W7D
90	3745.02 ~ 3754.98	0.5973	87M5G7D	0.5459	87M6W7D
100	3750.00 ~ 3750.00	0.5993	97M5G7D	0.5428	97M6W7D

Note:

1. All modulations have been evaluation, only the worst test results of PSK & QAM are shown in the report.
2. 5G NR Band n77 overlaps the entire frequency range of Band n78. Therefore, the conducted test results provided in this report covers Band n77 as well as Band n78.



1.8 Testing Location

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

Test Firm	Sporton International (Kunshan) Inc.		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH04-KS	CN1257	314309

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

Test Firm	Sporton International (Shenzhen) Inc.		
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 data subcontracted: Conducted test items in section 3.4~3.9 of this report.

1.9 Test Software

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



1.10 Applicable Standards

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

- ♦ 47 CFR Part 2, 27
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

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




2 Test Configuration of Equipment Under Test

2.1 Test Mode

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

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

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

Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			

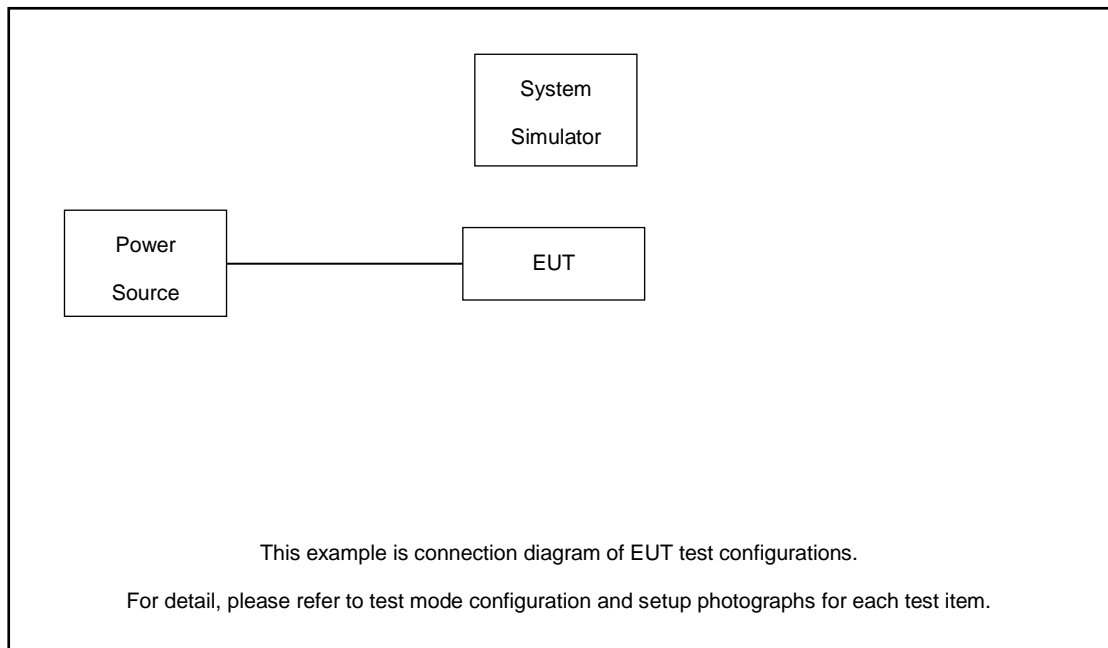
Test Items	5G NR	Bandwidth (MHz)									Modulation					RB #		Test Channel		
		5	10/15	20	30	40	50	60	70-90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256 QAM	1	Full	L	M	H
Max. Output Power	n7	v	v	v	v	v	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n41	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	n77	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	n78	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	n7			v			-	-	-	-	v	v				v	v	v	v	v
	n41	-	-	v							v	v				v	v	v	v	v
	n77	-	-	v							v	v				v	v	v	v	v
26dB and 99% Bandwidth	n7	v	v	v	v	v	-	-	-	-	v	v	v	v	v		v		v	
	n41	-	-	v	v	v	v	v	v	v	v	v	v	v	v		v		v	
	n77	-	-	v	v	v	v	v	v	v	v	v	v	v	v		v		v	
Conducted Band Edge	n7	v		v		v	-	-	-	-	v	v				v	v	v		v
	n41	-	-	v				v		v	v	v				v	v	v		v
	n77	-	-	v				v		v	v	v				v	v	v		v
Conducted Spurious Emission	n7	v		v		v	-	-	-	-	v	v				v		v	v	v
	n41	-	-	v				v		v	v	v				v		v	v	v
	n77	-	-	v				v		v	v	v				v		v	v	v



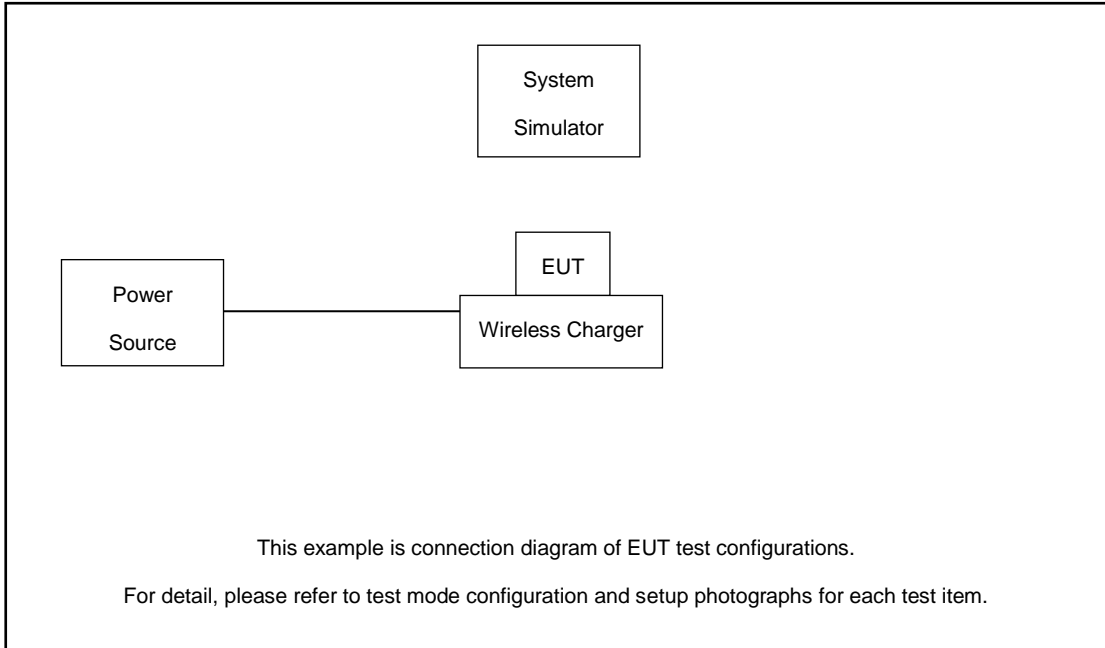
Test Items	5G NR	Bandwidth (MHz)									Modulation				RB #		Test Channel			
		5	10/15	20	30	40	50	60	70-90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256 QAM	1	Full	L	M	H
Frequency Stability	n7			v			-	-	-	-		v					v		v	
	n41	-	-	v								v					v		v	
	n77	-	-	v								v					v		v	
E.R.P / E.I.R.P	n7	v	v	v	v	v	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n41	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	n77	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	n78	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Radiated Spurious Emission	n7	Worst Case																	v	
	n41	Worst Case																	v	
	n77	Worst Case																	v	
	n78	Worst Case																	v	
Note	1. The mark "v" means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.																			

2.2 Connection Diagram of Test System

For Adapter mode:



For Wireless Charging mode:



2.3 Support Unit used in test configuration and system

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

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.

$$\text{Offset} = \text{RF cable loss}.$$

Following shows an offset computation example with cable loss 4.3 dB.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\ &= 4.3 \text{ (dB)} \end{aligned}$$



2.5 Frequency List of Low/Middle/High Channels

5G NR n7 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
40	Channel	528000	531000	534000
	Frequency	2520	2535	2550
30	Channel	527000	531000	535000
	Frequency	2515	2535	2555
25	Channel	526500	531000	535500
	Frequency	2512.5	2535	2557.5
20	Channel	526000	531000	536000
	Frequency	2510	2535	2560
15	Channel	525500	531000	536500
	Frequency	2507.5	2535	2562.5
10	Channel	525000	531000	537000
	Frequency	2505	2535	2565
5	Channel	524500	531000	537500
	Frequency	2502.5	2535	2567.5



5G NR n41 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	509202	518598	528000
	Frequency	2546.01	2592.99	2640
90	Channel	508200	518598	528996
	Frequency	2541	2592.99	2644.98
80	Channel	507204	518598	529998
	Frequency	2536.02	2592.99	2649.99
70	Channel	506202	518598	531000
	Frequency	2531.01	2592.99	2655
60	Channel	505200	518598	531996
	Frequency	2526	2592.99	2659.98
50	Channel	504204	518598	532998
	Frequency	2521.02	2592.99	2664.99
40	Channel	503202	518598	534000
	Frequency	2516.01	2592.99	2670
30	Channel	502200	518598	534996
	Frequency	2511	2592.99	2674.98
20	Channel	501204	518598	535998
	Frequency	2506.02	2592.99	2679.99



5G NR n77 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	650000	656000	662000
	Frequency	3750	3840	3930
90	Channel	649668	656000	662332
	Frequency	3745.02	3840	3934.98
80	Channel	649334	656000	662666
	Frequency	3740.01	3840	3939.99
70	Channel	649000	656000	663000
	Frequency	3735	3840	3945
60	Channel	648668	656000	663332
	Frequency	3730.02	3840	3949.98
50	Channel	648334	656000	663666
	Frequency	3725.01	3840	3954.99
40	Channel	648000	656000	664000
	Frequency	3720	3840	3960
30	Channel	647668	656000	664332
	Frequency	3715.02	3840	3964.98
20	Channel	647334	656000	664666
	Frequency	3710.01	3840	3969.99



5G NR n78 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	650000		
	Frequency	3750		
90	Channel	649668	650000	650332
	Frequency	3745.02	3750	3754.98
80	Channel	649334	650000	650666
	Frequency	3740.01	3750	3759.99
70	Channel	649000	650000	649334
	Frequency	3735	3750	3740.01
60	Channel	648668	650000	651332
	Frequency	3730.02	3750	3769.98
50	Channel	648334	650000	651666
	Frequency	3725.01	3750	3774.99
40	Channel	648000	650000	652000
	Frequency	3720	3750	3780
30	Channel	647668	650000	652332
	Frequency	3715.02	3750	3784.98
20	Channel	647334	650000	652666
	Frequency	3710.01	3750	3789.99

3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.2 Test Setup

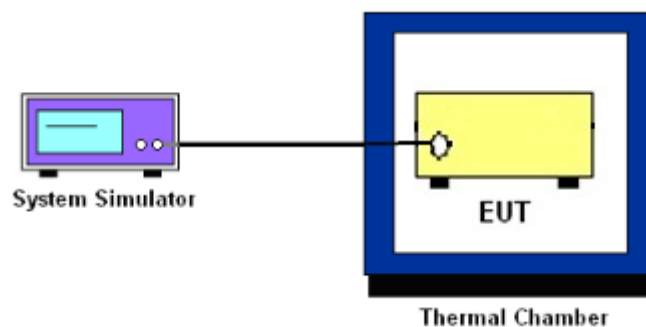
3.2.1 Conducted Output Power



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 EIRP

3.4.1 Description of the Conducted Output Power Measurement and 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 EIRP of mobile transmitters must not exceed 2 Watts for 5G NR n7 and n41.

The EIRP of mobile transmitters must not exceed 1 Watts for 5G NR n77 and n78.

According to KDB 412172 D01 Power Approach,

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

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

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

3.4.2 Test Procedures

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



3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

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

3.5.2 Test Procedures

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



3.6 Occupied Bandwidth

3.6.1 Description of Occupied Bandwidth Measurement

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

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

3.6.2 Test Procedures

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



3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

27.53(m)(4)

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

27.53(l)(2)

For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.



3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW \geq 1% 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 $43 + 10\log(P)$ dB below the transmitter power P(Watts)
= P(W)- [43 + 10log(P)] (dB)
= [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm.

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



3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

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

For 5G NR n7/n41:

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

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

3.8.2 Test Procedures

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



3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) 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 $20\pm 5^{\circ}\text{C}$ and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

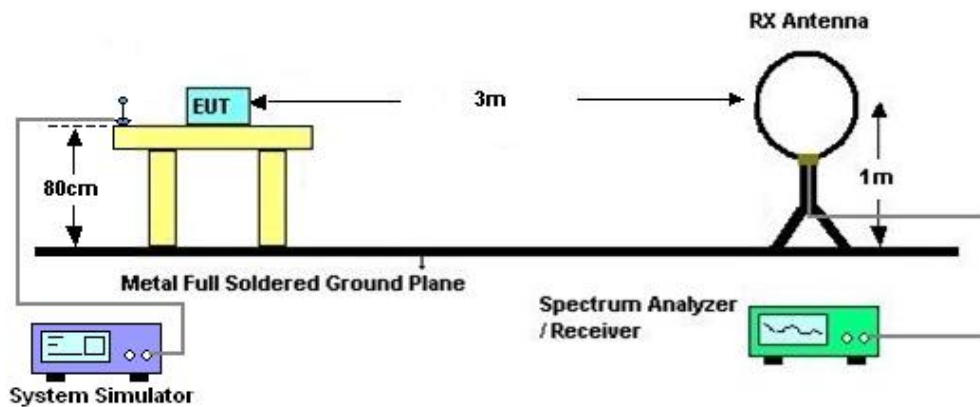
4 Radiated Test Items

4.1 Measuring Instruments

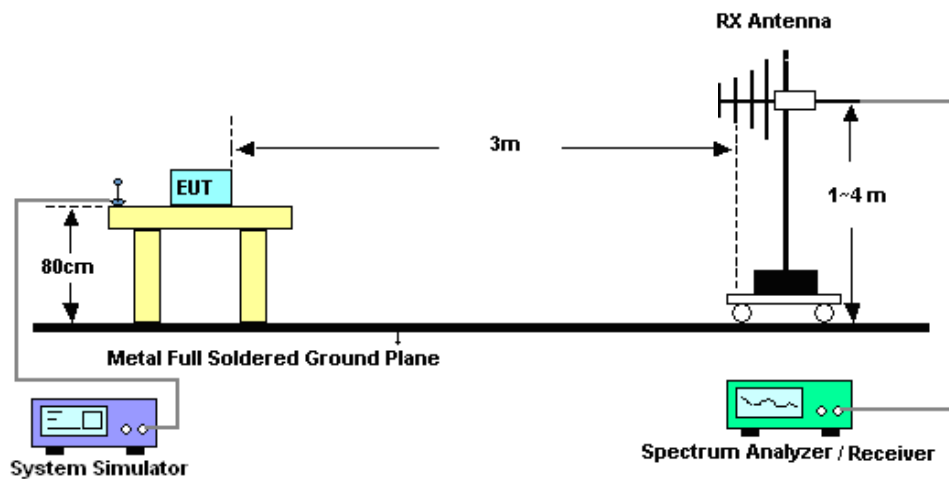
See list of measuring instruments of this test report.

4.2 Test Setup

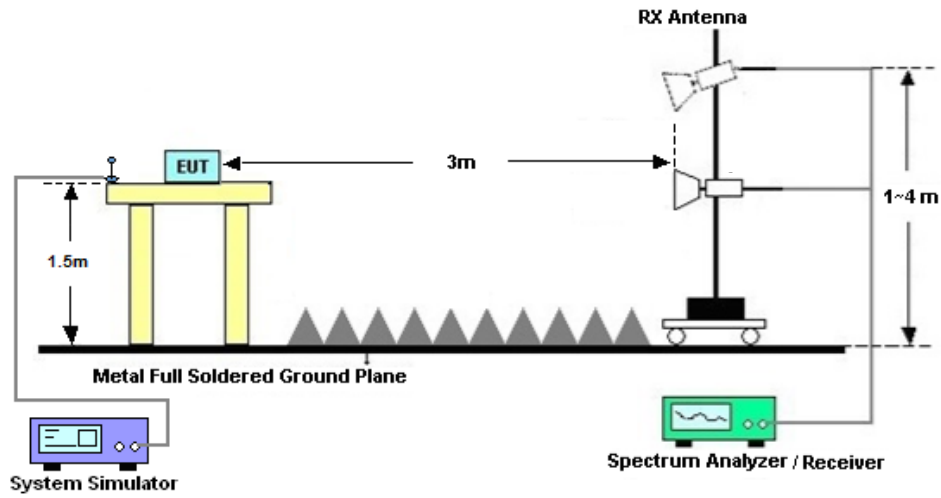
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

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

Please refer to Appendix B.



4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

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

For 5G NR n7/n41

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

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

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. $EIRP (dBm) = S.G. Power - Tx Cable Loss + Tx Antenna Gain$
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 $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)] (dB)$
 $= [30 + 10\log(P)] (dBm) - [43 + 10\log(P)] (dB)$
 $= -13dBm.$

13. For 5G NR n7/n41:

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



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Dec. 03, 2020	Nov. 30, 2021~ Dec. 31, 2021	Dec. 02, 2021	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Dec. 02, 2021		Dec. 01, 2022	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 26, 2020	Nov. 30, 2021~ Dec. 31, 2021	Dec. 25, 2021	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 25, 2021		Dec. 24, 2022	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 14, 2021	Nov. 30, 2021~ Dec. 31, 2021	Jul. 13, 2022	Conducted (TH01-SZ)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44G,MAX 30dB	Apr. 13, 2021	Jan. 01, 2022	Apr. 12, 2022	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 30, 2021	Jan. 01, 2022	Oct. 29, 2022	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	May 30, 2021	Jan. 01, 2022	May 29, 2022	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1356	1GHz~18GHz	Apr. 18, 2021	Jan. 01, 2022	Apr. 17, 2022	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 06, 2021	Jan. 01, 2022	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Jan. 06, 2021	Jan. 01, 2022	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 07, 2021	Jan. 01, 2022	Jan. 06, 2022	Radiation (03CH04-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2025788	1Ghz-18Ghz	Jan. 06, 2021	Jan. 01, 2022	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY57280106	500MHz~26.5GHz	Oct. 13, 2021	Jan. 01, 2022	Oct. 12, 2022	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jan. 01, 2022	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jan. 01, 2022	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jan. 01, 2022	NCR	Radiation (03CH04-KS)

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))	3.3dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.8dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

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



Appendix A. Test Results of Conducted Test

Test Engineer :	Jung Guo	Temperature :	22~23°C
		Relative Humidity :	40~42%

FR1 N7(ANT1)

LTE Band: 66(ANT0), LTE BW: 10M, LTE ARFCN: Mid

Transmitter Conducted Output Power And EIRP, (G_T - L_C)=-0.9dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
7	15	5	524500	2502.5	DFT-s-OFDM PI/2 BPSK	12@6	22.81	21.91	0.1552
7	15	5	524500	2502.5	DFT-s-OFDM PI/2 BPSK	1@1	22.75	21.85	0.1531
7	15	5	524500	2502.5	DFT-s-OFDM PI/2 BPSK	1@23	22.85	21.95	0.1567
7	15	5	524500	2502.5	DFT-s-OFDM QPSK	12@6	22.78	21.88	0.1542
7	15	5	524500	2502.5	DFT-s-OFDM QPSK	1@1	22.82	21.92	0.1556
7	15	5	524500	2502.5	DFT-s-OFDM QPSK	1@23	22.85	21.95	0.1567
7	15	5	524500	2502.5	DFT-s-OFDM 16 QAM	12@6	22.94	22.04	0.1600
7	15	5	524500	2502.5	DFT-s-OFDM 16 QAM	1@1	22.74	21.84	0.1528
7	15	5	524500	2502.5	DFT-s-OFDM 16 QAM	1@23	22.71	21.81	0.1517
7	15	5	524500	2502.5	DFT-s-OFDM 64 QAM	12@6	21.41	20.51	0.1125
7	15	5	524500	2502.5	DFT-s-OFDM 64 QAM	1@1	21.5	20.6	0.1148
7	15	5	524500	2502.5	DFT-s-OFDM 64 QAM	1@23	21.57	20.67	0.1167
7	15	5	524500	2502.5	DFT-s-OFDM 256 QAM	12@6	19.36	18.46	0.0701
7	15	5	524500	2502.5	DFT-s-OFDM 256 QAM	1@1	19.37	18.47	0.0703
7	15	5	524500	2502.5	DFT-s-OFDM 256 QAM	1@23	19.42	18.52	0.0711
7	15	5	524500	2502.5	CP-OFDM QPSK	13@6	22.34	21.44	0.1393
7	15	5	524500	2502.5	CP-OFDM QPSK	1@1	22.37	21.47	0.1403
7	15	5	524500	2502.5	CP-OFDM QPSK	1@23	22.4	21.5	0.1413
7	15	5	531000	2535	DFT-s-OFDM PI/2 BPSK	12@6	22.8	21.9	0.1549
7	15	5	531000	2535	DFT-s-OFDM PI/2 BPSK	1@1	22.81	21.91	0.1552
7	15	5	531000	2535	DFT-s-OFDM PI/2 BPSK	1@23	22.82	21.92	0.1556
7	15	5	531000	2535	DFT-s-OFDM QPSK	12@6	22.76	21.86	0.1535
7	15	5	531000	2535	DFT-s-OFDM QPSK	1@1	22.69	21.79	0.1510
7	15	5	531000	2535	DFT-s-OFDM QPSK	1@23	22.85	21.95	0.1567
7	15	5	531000	2535	DFT-s-OFDM 16 QAM	12@6	22.87	21.97	0.1574
7	15	5	531000	2535	DFT-s-OFDM 16 QAM	1@1	22.6	21.7	0.1479

7	15	5	531000	2535	DFT-s-OFDM 16 QAM	1@23	22.72	21.82	0.1521
7	15	5	531000	2535	DFT-s-OFDM 64 QAM	12@6	21.33	20.43	0.1104
7	15	5	531000	2535	DFT-s-OFDM 64 QAM	1@1	21.42	20.52	0.1127
7	15	5	531000	2535	DFT-s-OFDM 64 QAM	1@23	21.51	20.61	0.1151
7	15	5	531000	2535	DFT-s-OFDM 256 QAM	12@6	19.36	18.46	0.0701
7	15	5	531000	2535	DFT-s-OFDM 256 QAM	1@1	18.71	17.81	0.0604
7	15	5	531000	2535	DFT-s-OFDM 256 QAM	1@23	18.84	17.94	0.0622
7	15	5	531000	2535	CP-OFDM QPSK	13@6	22.29	21.39	0.1377
7	15	5	531000	2535	CP-OFDM QPSK	1@1	22.29	21.39	0.1377
7	15	5	531000	2535	CP-OFDM QPSK	1@23	22.38	21.48	0.1406
7	15	5	537500	2567.5	DFT-s-OFDM PI/2 BPSK	12@6	22.9	22	0.1585
7	15	5	537500	2567.5	DFT-s-OFDM PI/2 BPSK	1@1	22.84	21.94	0.1563
7	15	5	537500	2567.5	DFT-s-OFDM PI/2 BPSK	1@23	23.05	22.15	0.1641
7	15	5	537500	2567.5	DFT-s-OFDM QPSK	12@6	22.87	21.97	0.1574
7	15	5	537500	2567.5	DFT-s-OFDM QPSK	1@1	22.89	21.99	0.1581
7	15	5	537500	2567.5	DFT-s-OFDM QPSK	1@23	22.94	22.04	0.1600
7	15	5	537500	2567.5	DFT-s-OFDM 16 QAM	12@6	23.02	22.12	0.1629
7	15	5	537500	2567.5	DFT-s-OFDM 16 QAM	1@1	22.76	21.86	0.1535
7	15	5	537500	2567.5	DFT-s-OFDM 16 QAM	1@23	22.75	21.85	0.1531
7	15	5	537500	2567.5	DFT-s-OFDM 64 QAM	12@6	21.47	20.57	0.1140
7	15	5	537500	2567.5	DFT-s-OFDM 64 QAM	1@1	21.6	20.7	0.1175
7	15	5	537500	2567.5	DFT-s-OFDM 64 QAM	1@23	21.7	20.8	0.1202
7	15	5	537500	2567.5	DFT-s-OFDM 256 QAM	12@6	19.45	18.55	0.0716
7	15	5	537500	2567.5	DFT-s-OFDM 256 QAM	1@1	18.82	17.92	0.0619
7	15	5	537500	2567.5	DFT-s-OFDM 256 QAM	1@23	18.92	18.02	0.0634
7	15	5	537500	2567.5	CP-OFDM QPSK	13@6	22.39	21.49	0.1409
7	15	5	537500	2567.5	CP-OFDM QPSK	1@1	22.43	21.53	0.1422
7	15	5	537500	2567.5	CP-OFDM QPSK	1@23	22.55	21.65	0.1462
7	15	10	525000	2505	DFT-s-OFDM PI/2 BPSK	25@12	22.92	22.02	0.1592
7	15	10	525000	2505	DFT-s-OFDM PI/2 BPSK	1@1	22.93	22.03	0.1596
7	15	10	525000	2505	DFT-s-OFDM PI/2 BPSK	1@50	22.93	22.03	0.1596
7	15	10	525000	2505	DFT-s-OFDM QPSK	25@12	22.97	22.07	0.1611
7	15	10	525000	2505	DFT-s-OFDM QPSK	1@1	22.96	22.06	0.1607
7	15	10	525000	2505	DFT-s-OFDM QPSK	1@50	22.95	22.05	0.1603

7	15	10	525000	2505	DFT-s-OFDM 16 QAM	25@12	23.01	22.11	0.1626
7	15	10	525000	2505	DFT-s-OFDM 16 QAM	1@1	22.8	21.9	0.1549
7	15	10	525000	2505	DFT-s-OFDM 16 QAM	1@50	22.86	21.96	0.1570
7	15	10	525000	2505	DFT-s-OFDM 64 QAM	25@12	21.51	20.61	0.1151
7	15	10	525000	2505	DFT-s-OFDM 64 QAM	1@1	21.6	20.7	0.1175
7	15	10	525000	2505	DFT-s-OFDM 64 QAM	1@50	21.65	20.75	0.1189
7	15	10	525000	2505	DFT-s-OFDM 256 QAM	25@12	19.43	18.53	0.0713
7	15	10	525000	2505	DFT-s-OFDM 256 QAM	1@1	18.9	18	0.0631
7	15	10	525000	2505	DFT-s-OFDM 256 QAM	1@50	18.89	17.99	0.0630
7	15	10	525000	2505	CP-OFDM QPSK	26@13	22.4	21.5	0.1413
7	15	10	525000	2505	CP-OFDM QPSK	1@1	22.44	21.54	0.1426
7	15	10	525000	2505	CP-OFDM QPSK	1@50	22.5	21.6	0.1445
7	15	10	531000	2535	DFT-s-OFDM PI/2 BPSK	25@12	22.77	21.87	0.1538
7	15	10	531000	2535	DFT-s-OFDM PI/2 BPSK	1@1	22.79	21.89	0.1545
7	15	10	531000	2535	DFT-s-OFDM PI/2 BPSK	1@50	22.85	21.95	0.1567
7	15	10	531000	2535	DFT-s-OFDM QPSK	25@12	22.81	21.91	0.1552
7	15	10	531000	2535	DFT-s-OFDM QPSK	1@1	22.84	21.94	0.1563
7	15	10	531000	2535	DFT-s-OFDM QPSK	1@50	22.79	21.89	0.1545
7	15	10	531000	2535	DFT-s-OFDM 16 QAM	25@12	22.87	21.97	0.1574
7	15	10	531000	2535	DFT-s-OFDM 16 QAM	1@1	22.7	21.8	0.1514
7	15	10	531000	2535	DFT-s-OFDM 16 QAM	1@50	22.7	21.8	0.1514
7	15	10	531000	2535	DFT-s-OFDM 64 QAM	25@12	21.37	20.47	0.1114
7	15	10	531000	2535	DFT-s-OFDM 64 QAM	1@1	21.53	20.63	0.1156
7	15	10	531000	2535	DFT-s-OFDM 64 QAM	1@50	21.53	20.63	0.1156
7	15	10	531000	2535	DFT-s-OFDM 256 QAM	25@12	19.32	18.42	0.0695
7	15	10	531000	2535	DFT-s-OFDM 256 QAM	1@1	18.79	17.89	0.0615
7	15	10	531000	2535	DFT-s-OFDM 256 QAM	1@50	18.76	17.86	0.0611
7	15	10	531000	2535	CP-OFDM QPSK	26@13	22.28	21.38	0.1374
7	15	10	531000	2535	CP-OFDM QPSK	1@1	22.36	21.46	0.1400
7	15	10	531000	2535	CP-OFDM QPSK	1@50	22.33	21.43	0.1390
7	15	10	537000	2565	DFT-s-OFDM PI/2 BPSK	25@12	23	22.1	0.1622
7	15	10	537000	2565	DFT-s-OFDM PI/2 BPSK	1@1	22.82	21.92	0.1556
7	15	10	537000	2565	DFT-s-OFDM PI/2 BPSK	1@50	23.04	22.14	0.1637
7	15	10	537000	2565	DFT-s-OFDM QPSK	25@12	23.04	22.14	0.1637

7	15	10	537000	2565	DFT-s-OFDM QPSK	1@1	22.86	21.96	0.1570
7	15	10	537000	2565	DFT-s-OFDM QPSK	1@50	23.09	22.19	0.1656
7	15	10	537000	2565	DFT-s-OFDM 16 QAM	25@12	23.05	22.15	0.1641
7	15	10	537000	2565	DFT-s-OFDM 16 QAM	1@1	22.73	21.83	0.1524
7	15	10	537000	2565	DFT-s-OFDM 16 QAM	1@50	22.83	21.93	0.1560
7	15	10	537000	2565	DFT-s-OFDM 64 QAM	25@12	21.56	20.66	0.1164
7	15	10	537000	2565	DFT-s-OFDM 64 QAM	1@1	21.58	20.68	0.1169
7	15	10	537000	2565	DFT-s-OFDM 64 QAM	1@50	21.8	20.9	0.1230
7	15	10	537000	2565	DFT-s-OFDM 256 QAM	25@12	19.52	18.62	0.0728
7	15	10	537000	2565	DFT-s-OFDM 256 QAM	1@1	18.87	17.97	0.0627
7	15	10	537000	2565	DFT-s-OFDM 256 QAM	1@50	19.01	18.11	0.0647
7	15	10	537000	2565	CP-OFDM QPSK	26@13	22.52	21.62	0.1452
7	15	10	537000	2565	CP-OFDM QPSK	1@1	22.42	21.52	0.1419
7	15	10	537000	2565	CP-OFDM QPSK	1@50	22.54	21.64	0.1459
7	15	15	525500	2507.5	DFT-s-OFDM PI/2 BPSK	36@18	23.11	22.21	0.1663
7	15	15	525500	2507.5	DFT-s-OFDM PI/2 BPSK	1@1	23.09	22.19	0.1656
7	15	15	525500	2507.5	DFT-s-OFDM PI/2 BPSK	1@77	23.04	22.14	0.1637
7	15	15	525500	2507.5	DFT-s-OFDM QPSK	36@18	23.19	22.29	0.1694
7	15	15	525500	2507.5	DFT-s-OFDM QPSK	1@1	23.2	22.3	0.1698
7	15	15	525500	2507.5	DFT-s-OFDM QPSK	1@77	23.13	22.23	0.1671
7	15	15	525500	2507.5	DFT-s-OFDM 16 QAM	36@18	23.17	22.27	0.1687
7	15	15	525500	2507.5	DFT-s-OFDM 16 QAM	1@1	22.98	22.08	0.1614
7	15	15	525500	2507.5	DFT-s-OFDM 16 QAM	1@77	23.01	22.11	0.1626
7	15	15	525500	2507.5	DFT-s-OFDM 64 QAM	36@18	21.72	20.82	0.1208
7	15	15	525500	2507.5	DFT-s-OFDM 64 QAM	1@1	21.78	20.88	0.1225
7	15	15	525500	2507.5	DFT-s-OFDM 64 QAM	1@77	21.8	20.9	0.1230
7	15	15	525500	2507.5	DFT-s-OFDM 256 QAM	36@18	19.62	18.72	0.0745
7	15	15	525500	2507.5	DFT-s-OFDM 256 QAM	1@1	19.14	18.24	0.0667
7	15	15	525500	2507.5	DFT-s-OFDM 256 QAM	1@77	19.06	18.16	0.0655
7	15	15	525500	2507.5	CP-OFDM QPSK	39@19	22.63	21.73	0.1489
7	15	15	525500	2507.5	CP-OFDM QPSK	1@1	22.78	21.88	0.1542
7	15	15	525500	2507.5	CP-OFDM QPSK	1@77	22.56	21.66	0.1466
7	15	15	531000	2535	DFT-s-OFDM PI/2 BPSK	36@18	23.02	22.12	0.1629
7	15	15	531000	2535	DFT-s-OFDM PI/2 BPSK	1@1	23.05	22.15	0.1641

7	15	15	531000	2535	DFT-s-OFDM PI/2 BPSK	1@77	23.03	22.13	0.1633
7	15	15	531000	2535	DFT-s-OFDM QPSK	36@18	23.1	22.2	0.1660
7	15	15	531000	2535	DFT-s-OFDM QPSK	1@1	23.09	22.19	0.1656
7	15	15	531000	2535	DFT-s-OFDM QPSK	1@77	23.14	22.24	0.1675
7	15	15	531000	2535	DFT-s-OFDM 16 QAM	36@18	23.12	22.22	0.1667
7	15	15	531000	2535	DFT-s-OFDM 16 QAM	1@1	22.97	22.07	0.1611
7	15	15	531000	2535	DFT-s-OFDM 16 QAM	1@77	22.9	22	0.1585
7	15	15	531000	2535	DFT-s-OFDM 64 QAM	36@18	21.58	20.68	0.1169
7	15	15	531000	2535	DFT-s-OFDM 64 QAM	1@1	21.68	20.78	0.1197
7	15	15	531000	2535	DFT-s-OFDM 64 QAM	1@77	21.68	20.78	0.1197
7	15	15	531000	2535	DFT-s-OFDM 256 QAM	36@18	19.54	18.64	0.0731
7	15	15	531000	2535	DFT-s-OFDM 256 QAM	1@1	19.06	18.16	0.0655
7	15	15	531000	2535	DFT-s-OFDM 256 QAM	1@77	19.07	18.17	0.0656
7	15	15	531000	2535	CP-OFDM QPSK	39@19	22.49	21.59	0.1442
7	15	15	531000	2535	CP-OFDM QPSK	1@1	22.73	21.83	0.1524
7	15	15	531000	2535	CP-OFDM QPSK	1@77	22.55	21.65	0.1462
7	15	15	536500	2562.5	DFT-s-OFDM PI/2 BPSK	36@18	23.1	22.2	0.1660
7	15	15	536500	2562.5	DFT-s-OFDM PI/2 BPSK	1@1	23.11	22.21	0.1663
7	15	15	536500	2562.5	DFT-s-OFDM PI/2 BPSK	1@77	23.15	22.25	0.1679
7	15	15	536500	2562.5	DFT-s-OFDM QPSK	36@18	23.16	22.26	0.1683
7	15	15	536500	2562.5	DFT-s-OFDM QPSK	1@1	23.22	22.32	0.1706
7	15	15	536500	2562.5	DFT-s-OFDM QPSK	1@77	23.23	22.33	0.1710
7	15	15	536500	2562.5	DFT-s-OFDM 16 QAM	36@18	23.21	22.31	0.1702
7	15	15	536500	2562.5	DFT-s-OFDM 16 QAM	1@1	23.09	22.19	0.1656
7	15	15	536500	2562.5	DFT-s-OFDM 16 QAM	1@77	22.95	22.05	0.1603
7	15	15	536500	2562.5	DFT-s-OFDM 64 QAM	36@18	21.71	20.81	0.1205
7	15	15	536500	2562.5	DFT-s-OFDM 64 QAM	1@1	21.73	20.83	0.1211
7	15	15	536500	2562.5	DFT-s-OFDM 64 QAM	1@77	21.61	20.71	0.1178
7	15	15	536500	2562.5	DFT-s-OFDM 256 QAM	36@18	19.66	18.76	0.0752
7	15	15	536500	2562.5	DFT-s-OFDM 256 QAM	1@1	19.5	18.6	0.0724
7	15	15	536500	2562.5	DFT-s-OFDM 256 QAM	1@77	19.52	18.62	0.0728
7	15	15	536500	2562.5	CP-OFDM QPSK	39@19	22.6	21.7	0.1479
7	15	15	536500	2562.5	CP-OFDM QPSK	1@1	22.87	21.97	0.1574
7	15	15	536500	2562.5	CP-OFDM QPSK	1@77	22.71	21.81	0.1517

7	15	20	526000	2510	DFT-s-OFDM PI/2 BPSK	50@25	23.21	22.31	0.1702
7	15	20	526000	2510	DFT-s-OFDM PI/2 BPSK	1@1	23.05	22.15	0.1641
7	15	20	526000	2510	DFT-s-OFDM PI/2 BPSK	1@104	23.1	22.2	0.1660
7	15	20	526000	2510	DFT-s-OFDM QPSK	50@25	23.24	22.34	0.1714
7	15	20	526000	2510	DFT-s-OFDM QPSK	1@1	23.13	22.23	0.1671
7	15	20	526000	2510	DFT-s-OFDM QPSK	1@104	23.18	22.28	0.1690
7	15	20	526000	2510	DFT-s-OFDM 16 QAM	50@25	23.19	22.29	0.1694
7	15	20	526000	2510	DFT-s-OFDM 16 QAM	1@1	23.24	22.34	0.1714
7	15	20	526000	2510	DFT-s-OFDM 16 QAM	1@104	22.92	22.02	0.1592
7	15	20	526000	2510	DFT-s-OFDM 64 QAM	50@25	21.58	20.68	0.1169
7	15	20	526000	2510	DFT-s-OFDM 64 QAM	1@1	21.57	20.67	0.1167
7	15	20	526000	2510	DFT-s-OFDM 64 QAM	1@104	21.65	20.75	0.1189
7	15	20	526000	2510	DFT-s-OFDM 256 QAM	50@25	19.59	18.69	0.0740
7	15	20	526000	2510	DFT-s-OFDM 256 QAM	1@1	19.59	18.69	0.0740
7	15	20	526000	2510	DFT-s-OFDM 256 QAM	1@104	19.53	18.63	0.0729
7	15	20	526000	2510	CP-OFDM QPSK	53@26	22.57	21.67	0.1469
7	15	20	526000	2510	CP-OFDM QPSK	1@1	22.71	21.81	0.1517
7	15	20	526000	2510	CP-OFDM QPSK	1@104	22.6	21.7	0.1479
7	15	20	531000	2535	DFT-s-OFDM PI/2 BPSK	50@25	23.09	22.19	0.1656
7	15	20	531000	2535	DFT-s-OFDM PI/2 BPSK	1@1	22.99	22.09	0.1618
7	15	20	531000	2535	DFT-s-OFDM PI/2 BPSK	1@104	22.95	22.05	0.1603
7	15	20	531000	2535	DFT-s-OFDM QPSK	50@25	23.08	22.18	0.1652
7	15	20	531000	2535	DFT-s-OFDM QPSK	1@1	23.06	22.16	0.1644
7	15	20	531000	2535	DFT-s-OFDM QPSK	1@104	23	22.1	0.1622
7	15	20	531000	2535	DFT-s-OFDM 16 QAM	50@25	23.13	22.23	0.1671
7	15	20	531000	2535	DFT-s-OFDM 16 QAM	1@1	22.98	22.08	0.1614
7	15	20	531000	2535	DFT-s-OFDM 16 QAM	1@104	22.86	21.96	0.1570
7	15	20	531000	2535	DFT-s-OFDM 64 QAM	50@25	21.69	20.79	0.1199
7	15	20	531000	2535	DFT-s-OFDM 64 QAM	1@1	21.67	20.77	0.1194
7	15	20	531000	2535	DFT-s-OFDM 64 QAM	1@104	21.72	20.82	0.1208
7	15	20	531000	2535	DFT-s-OFDM 256 QAM	50@25	19.55	18.65	0.0733
7	15	20	531000	2535	DFT-s-OFDM 256 QAM	1@1	19.02	18.12	0.0649
7	15	20	531000	2535	DFT-s-OFDM 256 QAM	1@104	19.01	18.11	0.0647
7	15	20	531000	2535	CP-OFDM QPSK	53@26	22.52	21.62	0.1452

7	15	20	531000	2535	CP-OFDM QPSK	1@1	22.67	21.77	0.1503
7	15	20	531000	2535	CP-OFDM QPSK	1@104	22.69	21.79	0.1510
7	15	20	536000	2560	DFT-s-OFDM PI/2 BPSK	50@25	23.04	22.14	0.1637
7	15	20	536000	2560	DFT-s-OFDM PI/2 BPSK	1@1	23.04	22.14	0.1637
7	15	20	536000	2560	DFT-s-OFDM PI/2 BPSK	1@104	23.08	22.18	0.1652
7	15	20	536000	2560	DFT-s-OFDM QPSK	50@25	23.09	22.19	0.1656
7	15	20	536000	2560	DFT-s-OFDM QPSK	1@1	23.07	22.17	0.1648
7	15	20	536000	2560	DFT-s-OFDM QPSK	1@104	23.17	22.27	0.1687
7	15	20	536000	2560	DFT-s-OFDM 16 QAM	50@25	23.09	22.19	0.1656
7	15	20	536000	2560	DFT-s-OFDM 16 QAM	1@1	22.96	22.06	0.1607
7	15	20	536000	2560	DFT-s-OFDM 16 QAM	1@104	22.95	22.05	0.1603
7	15	20	536000	2560	DFT-s-OFDM 64 QAM	50@25	21.59	20.69	0.1172
7	15	20	536000	2560	DFT-s-OFDM 64 QAM	1@1	21.68	20.78	0.1197
7	15	20	536000	2560	DFT-s-OFDM 64 QAM	1@104	21.66	20.76	0.1191
7	15	20	536000	2560	DFT-s-OFDM 256 QAM	50@25	19.52	18.62	0.0728
7	15	20	536000	2560	DFT-s-OFDM 256 QAM	1@1	19.02	18.12	0.0649
7	15	20	536000	2560	DFT-s-OFDM 256 QAM	1@104	19.11	18.21	0.0662
7	15	20	536000	2560	CP-OFDM QPSK	53@26	22.53	21.63	0.1455
7	15	20	536000	2560	CP-OFDM QPSK	1@1	22.66	21.76	0.1500
7	15	20	536000	2560	CP-OFDM QPSK	1@104	22.77	21.87	0.1538
7	15	25	526500	2512.5	DFT-s-OFDM PI/2 BPSK	64@32	23.31	22.41	0.1742
7	15	25	526500	2512.5	DFT-s-OFDM PI/2 BPSK	1@1	23.25	22.35	0.1718
7	15	25	526500	2512.5	DFT-s-OFDM PI/2 BPSK	1@131	23.27	22.37	0.1726
7	15	25	526500	2512.5	DFT-s-OFDM QPSK	64@32	23.27	22.37	0.1726
7	15	25	526500	2512.5	DFT-s-OFDM QPSK	1@1	23.34	22.44	0.1754
7	15	25	526500	2512.5	DFT-s-OFDM QPSK	1@131	23.35	22.45	0.1758
7	15	25	526500	2512.5	DFT-s-OFDM 16 QAM	64@32	23.25	22.35	0.1718
7	15	25	526500	2512.5	DFT-s-OFDM 16 QAM	1@1	23.16	22.26	0.1683
7	15	25	526500	2512.5	DFT-s-OFDM 16 QAM	1@131	23.23	22.33	0.1710
7	15	25	526500	2512.5	DFT-s-OFDM 64 QAM	64@32	21.86	20.96	0.1247
7	15	25	526500	2512.5	DFT-s-OFDM 64 QAM	1@1	21.94	21.04	0.1271
7	15	25	526500	2512.5	DFT-s-OFDM 64 QAM	1@131	21.96	21.06	0.1276
7	15	25	526500	2512.5	DFT-s-OFDM 256 QAM	64@32	19.81	18.91	0.0778
7	15	25	526500	2512.5	DFT-s-OFDM 256 QAM	1@1	19.25	18.35	0.0684

7	15	25	526500	2512.5	DFT-s-OFDM 256 QAM	1@131	19.21	18.31	0.0678
7	15	25	526500	2512.5	CP-OFDM QPSK	67@33	22.87	21.97	0.1574
7	15	25	526500	2512.5	CP-OFDM QPSK	1@1	22.91	22.01	0.1589
7	15	25	526500	2512.5	CP-OFDM QPSK	1@131	22.89	21.99	0.1581
7	15	25	531000	2535	DFT-s-OFDM PI/2 BPSK	64@32	23.19	22.29	0.1694
7	15	25	531000	2535	DFT-s-OFDM PI/2 BPSK	1@1	23.32	22.42	0.1746
7	15	25	531000	2535	DFT-s-OFDM PI/2 BPSK	1@131	23.22	22.32	0.1706
7	15	25	531000	2535	DFT-s-OFDM QPSK	64@32	23.24	22.34	0.1714
7	15	25	531000	2535	DFT-s-OFDM QPSK	1@1	23.4	22.5	0.1778
7	15	25	531000	2535	DFT-s-OFDM QPSK	1@131	23.27	22.37	0.1726
7	15	25	531000	2535	DFT-s-OFDM 16 QAM	64@32	23.28	22.38	0.1730
7	15	25	531000	2535	DFT-s-OFDM 16 QAM	1@1	23.27	22.37	0.1726
7	15	25	531000	2535	DFT-s-OFDM 16 QAM	1@131	23.16	22.26	0.1683
7	15	25	531000	2535	DFT-s-OFDM 64 QAM	64@32	21.85	20.95	0.1245
7	15	25	531000	2535	DFT-s-OFDM 64 QAM	1@1	22	21.1	0.1288
7	15	25	531000	2535	DFT-s-OFDM 64 QAM	1@131	21.88	20.98	0.1253
7	15	25	531000	2535	DFT-s-OFDM 256 QAM	64@32	19.72	18.82	0.0762
7	15	25	531000	2535	DFT-s-OFDM 256 QAM	1@1	19.3	18.4	0.0692
7	15	25	531000	2535	DFT-s-OFDM 256 QAM	1@131	19.2	18.3	0.0676
7	15	25	531000	2535	CP-OFDM QPSK	67@33	22.73	21.83	0.1524
7	15	25	531000	2535	CP-OFDM QPSK	1@1	22.93	22.03	0.1596
7	15	25	531000	2535	CP-OFDM QPSK	1@131	22.8	21.9	0.1549
7	15	25	535500	2557.5	DFT-s-OFDM PI/2 BPSK	64@32	23.25	22.35	0.1718
7	15	25	535500	2557.5	DFT-s-OFDM PI/2 BPSK	1@1	23.32	22.42	0.1746
7	15	25	535500	2557.5	DFT-s-OFDM PI/2 BPSK	1@131	23.32	22.42	0.1746
7	15	25	535500	2557.5	DFT-s-OFDM QPSK	64@32	23.27	22.37	0.1726
7	15	25	535500	2557.5	DFT-s-OFDM QPSK	1@1	23.43	22.53	0.1791
7	15	25	535500	2557.5	DFT-s-OFDM QPSK	1@131	23.46	22.56	0.1803
7	15	25	535500	2557.5	DFT-s-OFDM 16 QAM	64@32	23.33	22.43	0.1750
7	15	25	535500	2557.5	DFT-s-OFDM 16 QAM	1@1	23.22	22.32	0.1706
7	15	25	535500	2557.5	DFT-s-OFDM 16 QAM	1@131	23.15	22.25	0.1679
7	15	25	535500	2557.5	DFT-s-OFDM 64 QAM	64@32	21.88	20.98	0.1253
7	15	25	535500	2557.5	DFT-s-OFDM 64 QAM	1@1	22.08	21.18	0.1312
7	15	25	535500	2557.5	DFT-s-OFDM 64 QAM	1@131	22.02	21.12	0.1294

7	15	25	535500	2557.5	DFT-s-OFDM 256 QAM	64@32	19.74	18.84	0.0766
7	15	25	535500	2557.5	DFT-s-OFDM 256 QAM	1@1	19.33	18.43	0.0697
7	15	25	535500	2557.5	DFT-s-OFDM 256 QAM	1@131	19.31	18.41	0.0693
7	15	25	535500	2557.5	CP-OFDM QPSK	67@33	22.78	21.88	0.1542
7	15	25	535500	2557.5	CP-OFDM QPSK	1@1	22.95	22.05	0.1603
7	15	25	535500	2557.5	CP-OFDM QPSK	1@131	22.98	22.08	0.1614
7	15	30	527000	2515	DFT-s-OFDM PI/2 BPSK	80@40	23.14	22.24	0.1675
7	15	30	527000	2515	DFT-s-OFDM PI/2 BPSK	1@1	23.11	22.21	0.1663
7	15	30	527000	2515	DFT-s-OFDM PI/2 BPSK	1@158	23.07	22.17	0.1648
7	15	30	527000	2515	DFT-s-OFDM QPSK	80@40	23.17	22.27	0.1687
7	15	30	527000	2515	DFT-s-OFDM QPSK	1@1	23.19	22.29	0.1694
7	15	30	527000	2515	DFT-s-OFDM QPSK	1@158	23.12	22.22	0.1667
7	15	30	527000	2515	DFT-s-OFDM 16 QAM	80@40	23.21	22.31	0.1702
7	15	30	527000	2515	DFT-s-OFDM 16 QAM	1@1	23.05	22.15	0.1641
7	15	30	527000	2515	DFT-s-OFDM 16 QAM	1@158	23	22.1	0.1622
7	15	30	527000	2515	DFT-s-OFDM 64 QAM	80@40	21.75	20.85	0.1216
7	15	30	527000	2515	DFT-s-OFDM 64 QAM	1@1	21.8	20.9	0.1230
7	15	30	527000	2515	DFT-s-OFDM 64 QAM	1@158	21.68	20.78	0.1197
7	15	30	527000	2515	DFT-s-OFDM 256 QAM	80@40	19.72	18.82	0.0762
7	15	30	527000	2515	DFT-s-OFDM 256 QAM	1@1	19.17	18.27	0.0671
7	15	30	527000	2515	DFT-s-OFDM 256 QAM	1@158	19.08	18.18	0.0658
7	15	30	527000	2515	CP-OFDM QPSK	80@40	22.68	21.78	0.1507
7	15	30	527000	2515	CP-OFDM QPSK	1@1	22.83	21.93	0.1560
7	15	30	527000	2515	CP-OFDM QPSK	1@158	22.74	21.84	0.1528
7	15	30	531000	2535	DFT-s-OFDM PI/2 BPSK	80@40	23.02	22.12	0.1629
7	15	30	531000	2535	DFT-s-OFDM PI/2 BPSK	1@1	23.16	22.26	0.1683
7	15	30	531000	2535	DFT-s-OFDM PI/2 BPSK	1@158	23.15	22.25	0.1679
7	15	30	531000	2535	DFT-s-OFDM QPSK	80@40	23.07	22.17	0.1648
7	15	30	531000	2535	DFT-s-OFDM QPSK	1@1	23.24	22.34	0.1714
7	15	30	531000	2535	DFT-s-OFDM QPSK	1@158	23.11	22.21	0.1663
7	15	30	531000	2535	DFT-s-OFDM 16 QAM	80@40	23.06	22.16	0.1644
7	15	30	531000	2535	DFT-s-OFDM 16 QAM	1@1	23.13	22.23	0.1671
7	15	30	531000	2535	DFT-s-OFDM 16 QAM	1@158	23.07	22.17	0.1648
7	15	30	531000	2535	DFT-s-OFDM 64 QAM	80@40	21.62	20.72	0.1180

7	15	30	531000	2535	DFT-s-OFDM 64 QAM	1@1	21.85	20.95	0.1245
7	15	30	531000	2535	DFT-s-OFDM 64 QAM	1@158	21.76	20.86	0.1219
7	15	30	531000	2535	DFT-s-OFDM 256 QAM	80@40	19.58	18.68	0.0738
7	15	30	531000	2535	DFT-s-OFDM 256 QAM	1@1	19.22	18.32	0.0679
7	15	30	531000	2535	DFT-s-OFDM 256 QAM	1@158	19.18	18.28	0.0673
7	15	30	531000	2535	CP-OFDM QPSK	80@40	22.52	21.62	0.1452
7	15	30	531000	2535	CP-OFDM QPSK	1@1	22.83	21.93	0.1560
7	15	30	531000	2535	CP-OFDM QPSK	1@158	22.79	21.89	0.1545
7	15	30	535000	2555	DFT-s-OFDM PI/2 BPSK	80@40	23.25	22.35	0.1718
7	15	30	535000	2555	DFT-s-OFDM PI/2 BPSK	1@1	23.14	22.24	0.1675
7	15	30	535000	2555	DFT-s-OFDM PI/2 BPSK	1@158	23.33	22.43	0.1750
7	15	30	535000	2555	DFT-s-OFDM QPSK	80@40	23.21	22.31	0.1702
7	15	30	535000	2555	DFT-s-OFDM QPSK	1@1	23.27	22.37	0.1726
7	15	30	535000	2555	DFT-s-OFDM QPSK	1@158	23.43	22.53	0.1791
7	15	30	535000	2555	DFT-s-OFDM 16 QAM	80@40	23.22	22.32	0.1706
7	15	30	535000	2555	DFT-s-OFDM 16 QAM	1@1	23.12	22.22	0.1667
7	15	30	535000	2555	DFT-s-OFDM 16 QAM	1@158	23.22	22.32	0.1706
7	15	30	535000	2555	DFT-s-OFDM 64 QAM	80@40	21.78	20.88	0.1225
7	15	30	535000	2555	DFT-s-OFDM 64 QAM	1@1	21.88	20.98	0.1253
7	15	30	535000	2555	DFT-s-OFDM 64 QAM	1@158	22.04	21.14	0.1300
7	15	30	535000	2555	DFT-s-OFDM 256 QAM	80@40	19.74	18.84	0.0766
7	15	30	535000	2555	DFT-s-OFDM 256 QAM	1@1	19.22	18.32	0.0679
7	15	30	535000	2555	DFT-s-OFDM 256 QAM	1@158	19.42	18.52	0.0711
7	15	30	535000	2555	CP-OFDM QPSK	80@40	22.7	21.8	0.1514
7	15	30	535000	2555	CP-OFDM QPSK	1@1	22.85	21.95	0.1567
7	15	30	535000	2555	CP-OFDM QPSK	1@158	23.03	22.13	0.1633
7	15	40	528000	2520	DFT-s-OFDM PI/2 BPSK	108@54	23.04	22.14	0.1637
7	15	40	528000	2520	DFT-s-OFDM PI/2 BPSK	1@1	23.13	22.23	0.1671
7	15	40	528000	2520	DFT-s-OFDM PI/2 BPSK	1@214	22.95	22.05	0.1603
7	15	40	528000	2520	DFT-s-OFDM QPSK	108@54	23.12	22.22	0.1667
7	15	40	528000	2520	DFT-s-OFDM QPSK	1@1	23.17	22.27	0.1687
7	15	40	528000	2520	DFT-s-OFDM QPSK	1@214	23.03	22.13	0.1633
7	15	40	528000	2520	DFT-s-OFDM 16 QAM	108@54	23.1	22.2	0.1660
7	15	40	528000	2520	DFT-s-OFDM 16 QAM	1@1	23.04	22.14	0.1637

7	15	40	528000	2520	DFT-s-OFDM 16 QAM	1@214	22.93	22.03	0.1596
7	15	40	528000	2520	DFT-s-OFDM 64 QAM	108@54	21.65	20.75	0.1189
7	15	40	528000	2520	DFT-s-OFDM 64 QAM	1@1	21.76	20.86	0.1219
7	15	40	528000	2520	DFT-s-OFDM 64 QAM	1@214	21.64	20.74	0.1186
7	15	40	528000	2520	DFT-s-OFDM 256 QAM	108@54	19.61	18.71	0.0743
7	15	40	528000	2520	DFT-s-OFDM 256 QAM	1@1	19.18	18.28	0.0673
7	15	40	528000	2520	DFT-s-OFDM 256 QAM	1@214	19.1	18.2	0.0661
7	15	40	528000	2520	CP-OFDM QPSK	108@54	22.62	21.72	0.1486
7	15	40	528000	2520	CP-OFDM QPSK	1@1	22.8	21.9	0.1549
7	15	40	528000	2520	CP-OFDM QPSK	1@214	22.67	21.77	0.1503
7	15	40	531000	2535	DFT-s-OFDM PI/2 BPSK	108@54	23.09	22.19	0.1656
7	15	40	531000	2535	DFT-s-OFDM PI/2 BPSK	1@1	23.12	22.22	0.1667
7	15	40	531000	2535	DFT-s-OFDM PI/2 BPSK	1@214	23.05	22.15	0.1641
7	15	40	531000	2535	DFT-s-OFDM QPSK	108@54	23.18	22.28	0.1690
7	15	40	531000	2535	DFT-s-OFDM QPSK	1@1	23.2	22.3	0.1698
7	15	40	531000	2535	DFT-s-OFDM QPSK	1@214	23.1	22.2	0.1660
7	15	40	531000	2535	DFT-s-OFDM 16 QAM	108@54	23.21	22.31	0.1702
7	15	40	531000	2535	DFT-s-OFDM 16 QAM	1@1	23.08	22.18	0.1652
7	15	40	531000	2535	DFT-s-OFDM 16 QAM	1@214	23.03	22.13	0.1633
7	15	40	531000	2535	DFT-s-OFDM 64 QAM	108@54	21.7	20.8	0.1202
7	15	40	531000	2535	DFT-s-OFDM 64 QAM	1@1	21.78	20.88	0.1225
7	15	40	531000	2535	DFT-s-OFDM 64 QAM	1@214	21.69	20.79	0.1199
7	15	40	531000	2535	DFT-s-OFDM 256 QAM	108@54	19.63	18.73	0.0746
7	15	40	531000	2535	DFT-s-OFDM 256 QAM	1@1	19.23	18.33	0.0681
7	15	40	531000	2535	DFT-s-OFDM 256 QAM	1@214	19.19	18.29	0.0675
7	15	40	531000	2535	CP-OFDM QPSK	108@54	22.68	21.78	0.1507
7	15	40	531000	2535	CP-OFDM QPSK	1@1	22.84	21.94	0.1563
7	15	40	531000	2535	CP-OFDM QPSK	1@214	22.78	21.88	0.1542
7	15	40	534000	2550	DFT-s-OFDM PI/2 BPSK	108@54	23.25	22.35	0.1718
7	15	40	534000	2550	DFT-s-OFDM PI/2 BPSK	1@1	23.14	22.24	0.1675
7	15	40	534000	2550	DFT-s-OFDM PI/2 BPSK	1@214	23.23	22.33	0.1710
7	15	40	534000	2550	DFT-s-OFDM QPSK	108@54	23.28	22.38	0.1730
7	15	40	534000	2550	DFT-s-OFDM QPSK	1@1	23.22	22.32	0.1706
7	15	40	534000	2550	DFT-s-OFDM QPSK	1@214	23.33	22.43	0.1750

7	15	40	534000	2550	DFT-s-OFDM 16 QAM	108@54	23.29	22.39	0.1734
7	15	40	534000	2550	DFT-s-OFDM 16 QAM	1@1	23.07	22.17	0.1648
7	15	40	534000	2550	DFT-s-OFDM 16 QAM	1@214	23.11	22.21	0.1663
7	15	40	534000	2550	DFT-s-OFDM 64 QAM	108@54	21.7	20.8	0.1202
7	15	40	534000	2550	DFT-s-OFDM 64 QAM	1@1	21.78	20.88	0.1225
7	15	40	534000	2550	DFT-s-OFDM 64 QAM	1@214	21.98	21.08	0.1282
7	15	40	534000	2550	DFT-s-OFDM 256 QAM	108@54	19.74	18.84	0.0766
7	15	40	534000	2550	DFT-s-OFDM 256 QAM	1@1	19.66	18.76	0.0752
7	15	40	534000	2550	DFT-s-OFDM 256 QAM	1@214	19.38	18.48	0.0705
7	15	40	534000	2550	CP-OFDM QPSK	108@54	22.68	21.78	0.1507
7	15	40	534000	2550	CP-OFDM QPSK	1@1	22.71	21.81	0.1517
7	15	40	534000	2550	CP-OFDM QPSK	1@214	22.76	21.86	0.1535

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
7	15	20	531000	2535.0	DFT-s-OFDM QPSK	100@0	-0.00379	PASS	NV
7	15	20	531000	2535.0	DFT-s-OFDM QPSK	100@0	-0.00658	PASS	LV
7	15	20	531000	2535.0	DFT-s-OFDM QPSK	100@0	-0.00247	PASS	HV
7	15	20	531000	2535.0	DFT-s-OFDM QPSK	100@0	-0.00414	PASS	-30°C
7	15	20	531000	2535.0	DFT-s-OFDM QPSK	100@0	-0.00499	PASS	-20°C
7	15	20	531000	2535.0	DFT-s-OFDM QPSK	100@0	-0.0032	PASS	-10°C
7	15	20	531000	2535.0	DFT-s-OFDM QPSK	100@0	-0.00586	PASS	0°C
7	15	20	531000	2535.0	DFT-s-OFDM QPSK	100@0	-0.00207	PASS	10°C
7	15	20	531000	2535.0	DFT-s-OFDM QPSK	100@0	-0.00263	PASS	20°C
7	15	20	531000	2535.0	DFT-s-OFDM QPSK	100@0	-0.00315	PASS	30°C
7	15	20	531000	2535.0	DFT-s-OFDM QPSK	100@0	-0.00584	PASS	40°C
7	15	20	531000	2535.0	DFT-s-OFDM QPSK	100@0	-0.00611	PASS	50°C

Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
7	15	20	526000	2510.0	DFT-s-OFDM PI/2 BPSK	100@0	3.83	13	PASS
7	15	20	526000	2510.0	DFT-s-OFDM PI/2 BPSK	1@0	3.23	13	PASS
7	15	20	526000	2510.0	DFT-s-OFDM QPSK	100@0	4.52	13	PASS
7	15	20	526000	2510.0	DFT-s-OFDM QPSK	1@0	3.78	13	PASS
7	15	20	531000	2535.0	DFT-s-OFDM PI/2 BPSK	100@0	3.58	13	PASS
7	15	20	531000	2535.0	DFT-s-OFDM PI/2 BPSK	1@0	3.35	13	PASS
7	15	20	531000	2535.0	DFT-s-OFDM QPSK	100@0	4.22	13	PASS
7	15	20	531000	2535.0	DFT-s-OFDM QPSK	1@0	4.02	13	PASS
7	15	20	536000	2560.0	DFT-s-OFDM PI/2 BPSK	100@0	4.03	13	PASS
7	15	20	536000	2560.0	DFT-s-OFDM PI/2 BPSK	1@0	3.36	13	PASS
7	15	20	536000	2560.0	DFT-s-OFDM QPSK	100@0	4.48	13	PASS
7	15	20	536000	2560.0	DFT-s-OFDM QPSK	1@0	3.81	13	PASS

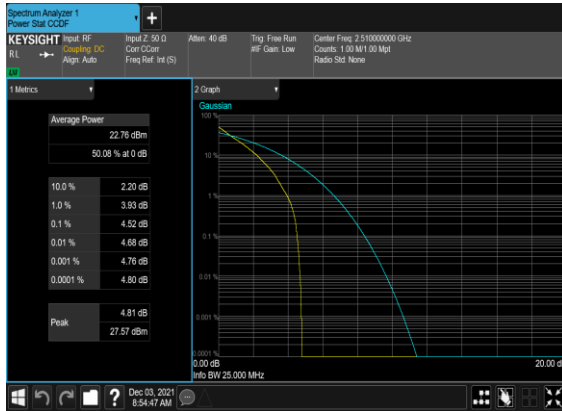
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B66_N7(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Low_CH



B66_N7(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



B66_N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



B66_N7(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



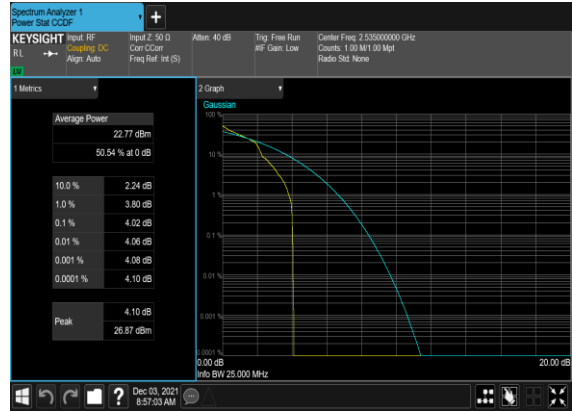
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B66_N7(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



B66_N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



B66_N7(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH



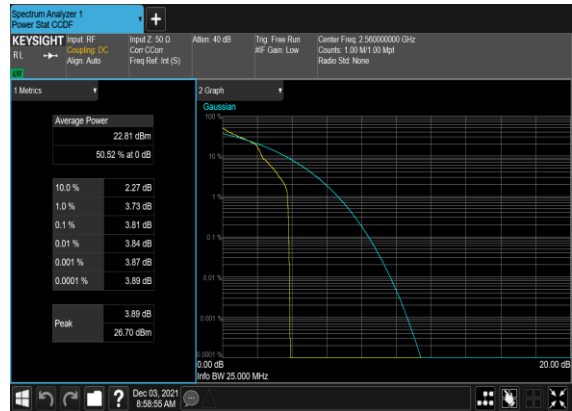
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B66_N7(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



B66_N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



Occupied Bandwidth

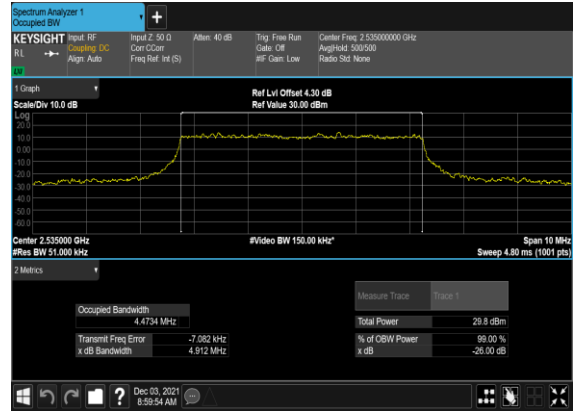
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
7	15	5	531000	2535.0	DFT-s-OFDM PI/2 BPSK	25@0	4.4642	4.939
7	15	5	531000	2535.0	DFT-s-OFDM QPSK	25@0	4.4734	4.912
7	15	5	531000	2535.0	CP-OFDM QPSK	25@0	4.4796	5.129
7	15	5	531000	2535.0	CP-OFDM 16 QAM	25@0	4.4987	5.184
7	15	5	531000	2535.0	CP-OFDM 64 QAM	25@0	4.4842	5.112
7	15	5	531000	2535.0	CP-OFDM 256 QAM	25@0	4.4707	5.106
7	15	10	531000	2535.0	DFT-s-OFDM PI/2 BPSK	50@0	8.8884	9.617
7	15	10	531000	2535.0	DFT-s-OFDM QPSK	50@0	8.9182	9.7
7	15	10	531000	2535.0	CP-OFDM QPSK	52@0	9.2825	10.03
7	15	10	531000	2535.0	CP-OFDM 16 QAM	52@0	9.2811	10.02
7	15	10	531000	2535.0	CP-OFDM 64 QAM	52@0	9.2708	10.05
7	15	10	531000	2535.0	CP-OFDM 256 QAM	52@0	9.295	10.07
7	15	15	531000	2535.0	DFT-s-OFDM PI/2 BPSK	75@0	13.372	14.13
7	15	15	531000	2535.0	DFT-s-OFDM QPSK	75@0	13.374	14.23
7	15	15	531000	2535.0	CP-OFDM QPSK	79@0	14.091	14.97
7	15	15	531000	2535.0	CP-OFDM 16 QAM	79@0	14.107	15.05
7	15	15	531000	2535.0	CP-OFDM 64 QAM	79@0	14.123	14.97
7	15	15	531000	2535.0	CP-OFDM 256 QAM	79@0	14.07	14.94
7	15	20	531000	2535.0	DFT-s-OFDM PI/2 BPSK	100@0	17.833	18.82
7	15	20	531000	2535.0	DFT-s-OFDM QPSK	100@0	17.836	18.79
7	15	20	531000	2535.0	CP-OFDM QPSK	106@0	18.898	19.99
7	15	20	531000	2535.0	CP-OFDM 16 QAM	106@0	18.93	20.02
7	15	20	531000	2535.0	CP-OFDM 64 QAM	106@0	18.91	19.94
7	15	20	531000	2535.0	CP-OFDM 256 QAM	106@0	18.963	19.9

7	15	25	531000	2535.0	DFT-s-OFDM PI/2 BPSK	128@0	22.777	23.83
7	15	25	531000	2535.0	DFT-s-OFDM QPSK	128@0	22.86	23.84
7	15	25	531000	2535.0	CP-OFDM QPSK	133@0	23.671	24.75
7	15	25	531000	2535.0	CP-OFDM 16 QAM	133@0	23.665	24.84
7	15	25	531000	2535.0	CP-OFDM 64 QAM	133@0	23.649	24.83
7	15	25	531000	2535.0	CP-OFDM 256 QAM	133@0	23.702	24.73
7	15	30	531000	2535.0	DFT-s-OFDM PI/2 BPSK	160@0	28.476	29.54
7	15	30	531000	2535.0	DFT-s-OFDM QPSK	160@0	28.498	29.67
7	15	30	531000	2535.0	CP-OFDM QPSK	160@0	28.522	29.81
7	15	30	531000	2535.0	CP-OFDM 16 QAM	160@0	28.581	30.81
7	15	30	531000	2535.0	CP-OFDM 64 QAM	160@0	28.447	29.84
7	15	30	531000	2535.0	CP-OFDM 256 QAM	160@0	28.53	29.75
7	15	40	531000	2535.0	DFT-s-OFDM PI/2 BPSK	216@0	38.477	40.09
7	15	40	531000	2535.0	DFT-s-OFDM QPSK	216@0	38.628	40.13
7	15	40	531000	2535.0	CP-OFDM QPSK	216@0	38.484	39.96
7	15	40	531000	2535.0	CP-OFDM 16 QAM	216@0	38.465	40.03
7	15	40	531000	2535.0	CP-OFDM 64 QAM	216@0	38.547	39.97
7	15	40	531000	2535.0	CP-OFDM 256 QAM	216@0	38.462	39.93

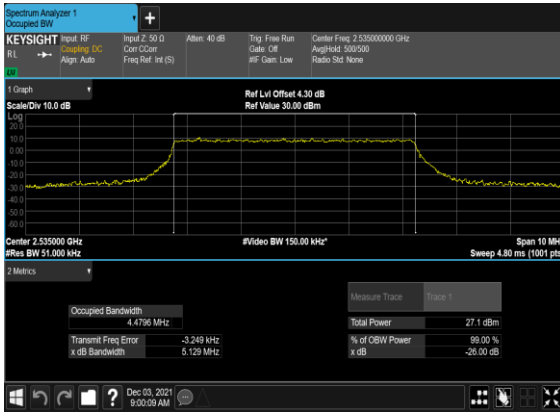
B66_N7(5M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



B66_N7(5M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



B66_N7(5M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



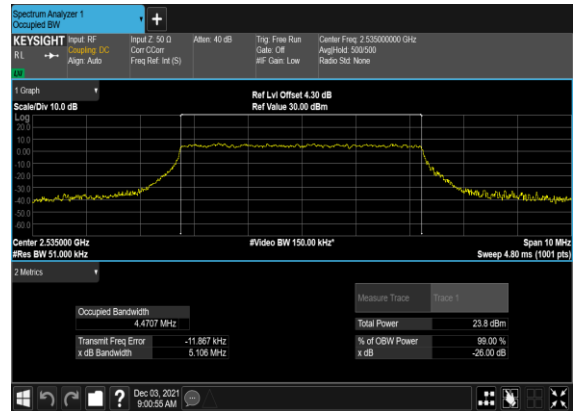
B66_N7(5M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



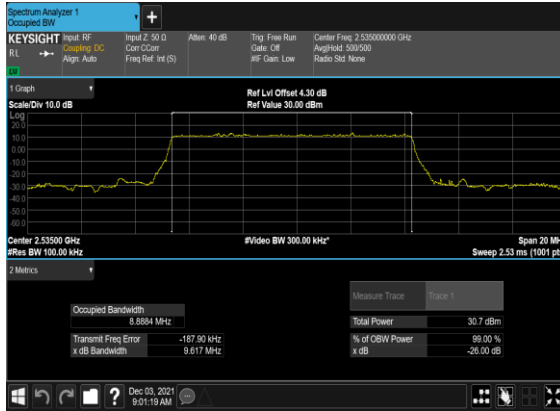
B66_N7(5M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



B66_N7(5M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



B66_N7(10M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



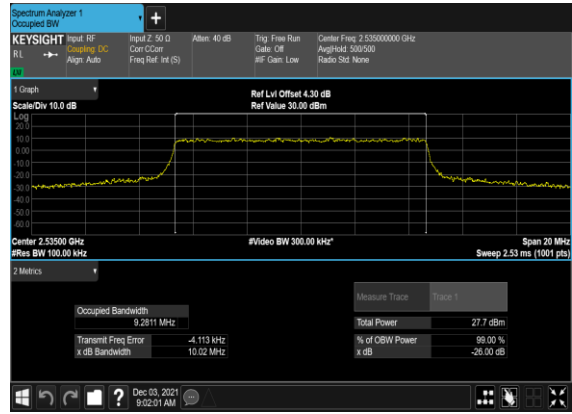
B66_N7(10M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



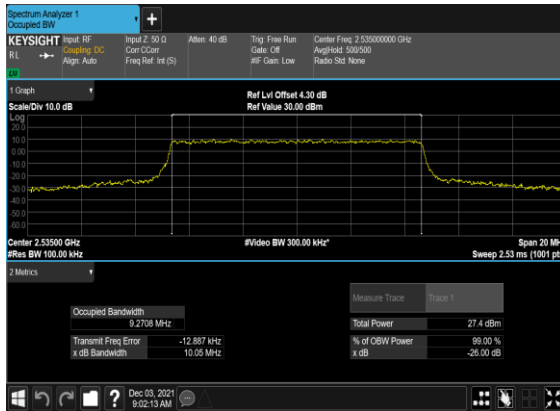
B66_N7(10M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



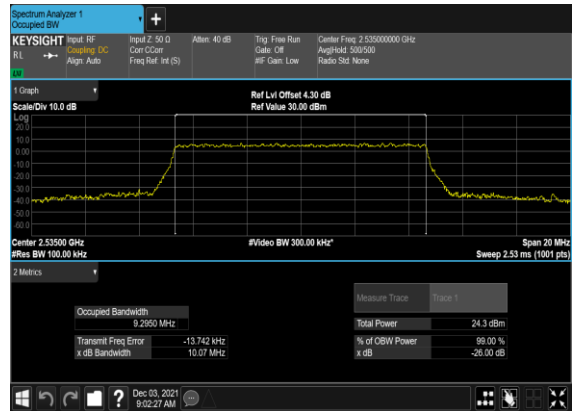
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QAM_Outer_Full_Mid_CH



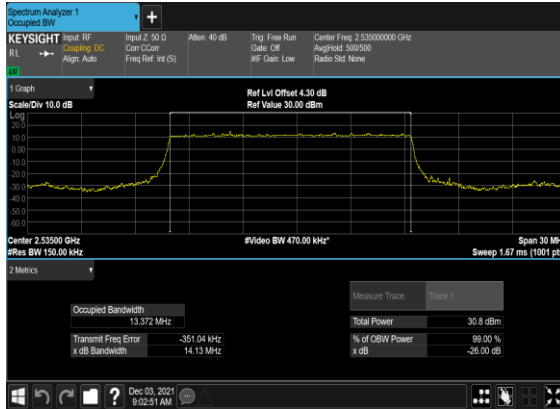
B66_N7(10M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



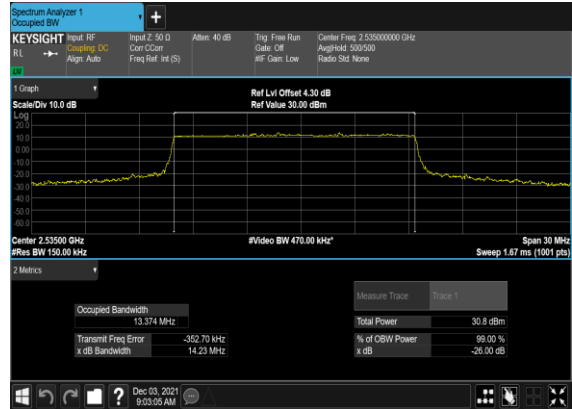
B66_N7(10M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



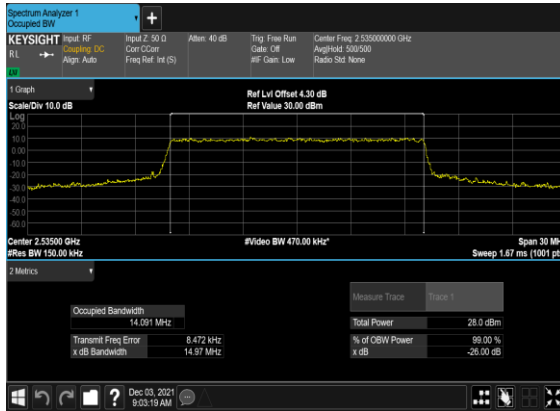
B66_N7(15M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



B66_N7(15M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



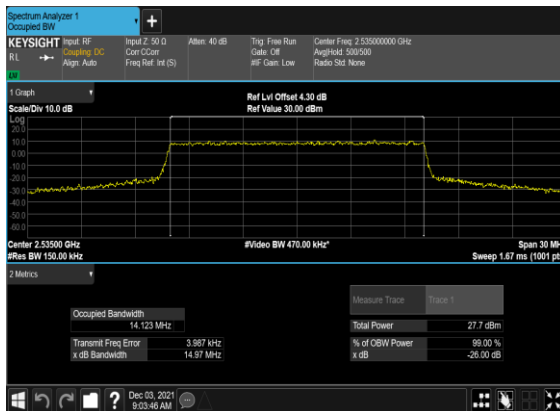
B66_N7(15M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



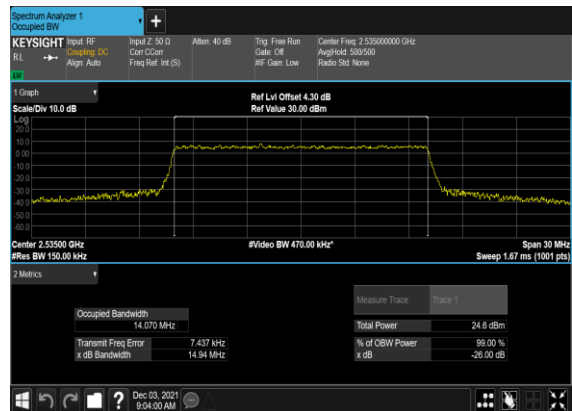
B66_N7(15M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



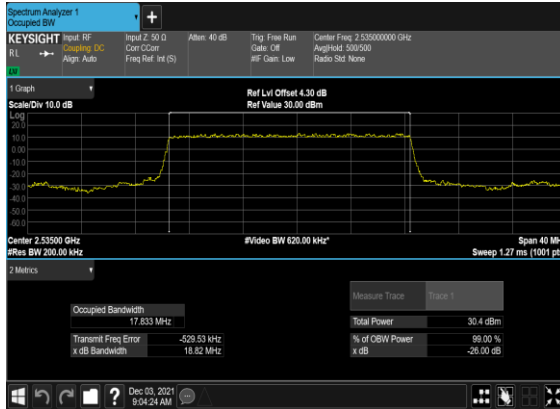
B66_N7(15M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



B66_N7(15M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



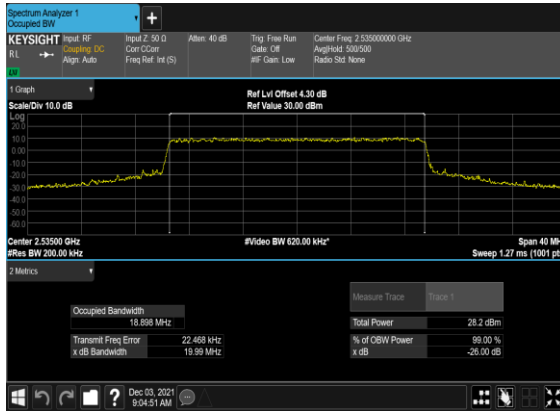
B66_N7(20M)_DFT-s-OFDM_PI_2- BPSK_Outer_Full_Mid_CH



B66_N7(20M)_DFT-s- OFDM_QPSK_Outer_Full_Mid_CH



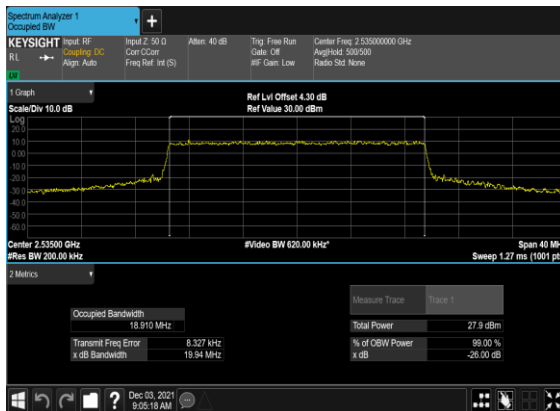
B66_N7(20M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



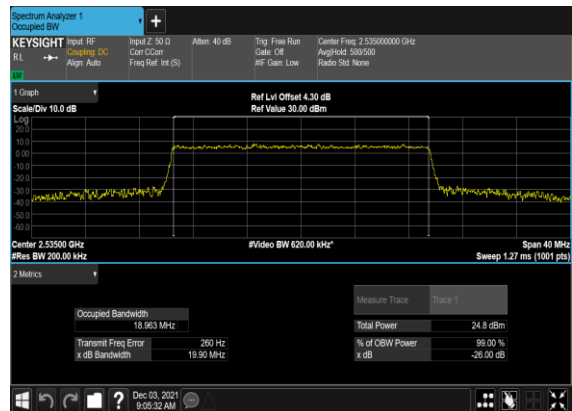
B66_N7(20M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



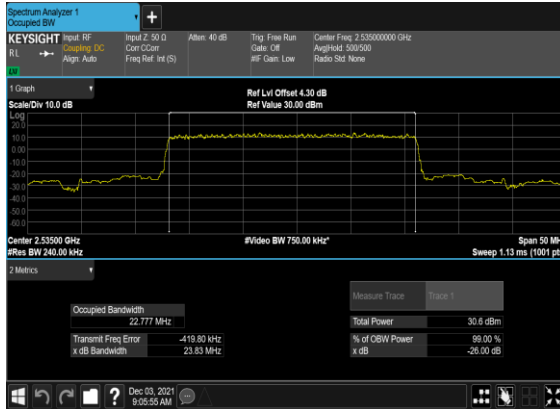
B66_N7(20M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



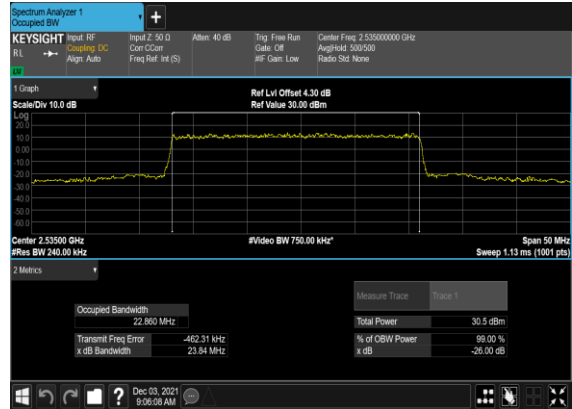
B66_N7(20M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



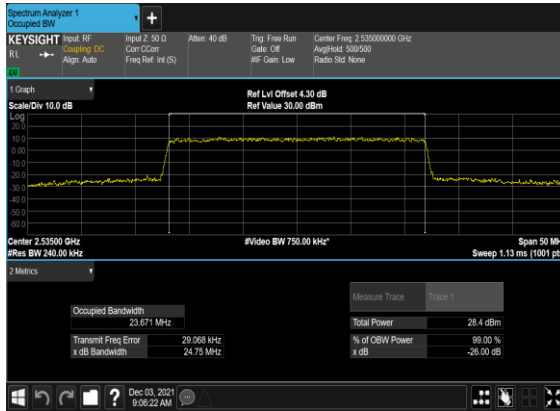
B66_N7(25M)_DFT-s-OFDM_PI_2- BPSK_Outer_Full_Mid_CH



B66_N7(25M)_DFT-s- OFDM_QPSK_Outer_Full_Mid_CH



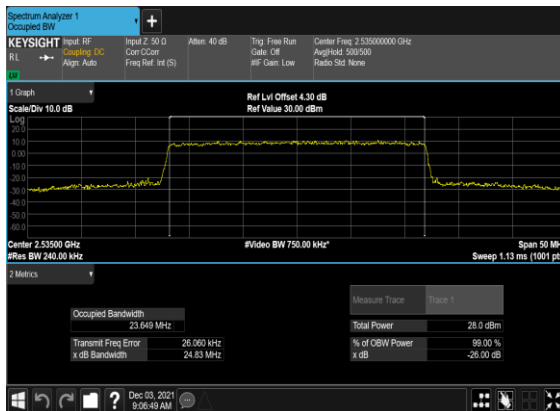
B66_N7(25M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



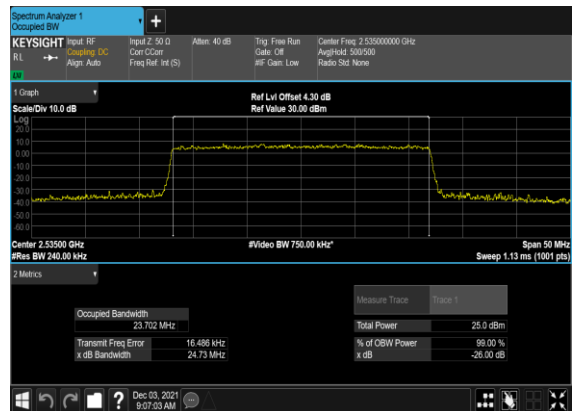
B66_N7(25M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



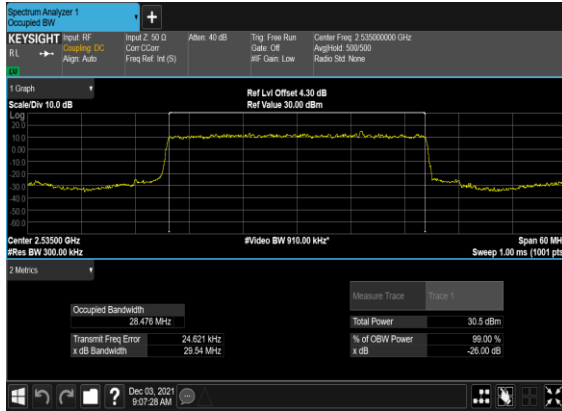
B66_N7(25M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



B66_N7(25M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



B66_N7(30M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



B66_N7(30M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



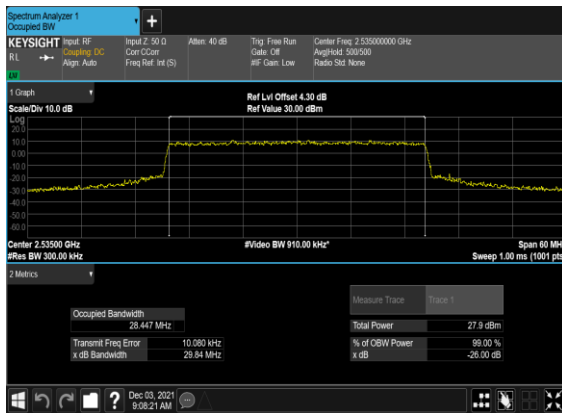
B66_N7(30M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



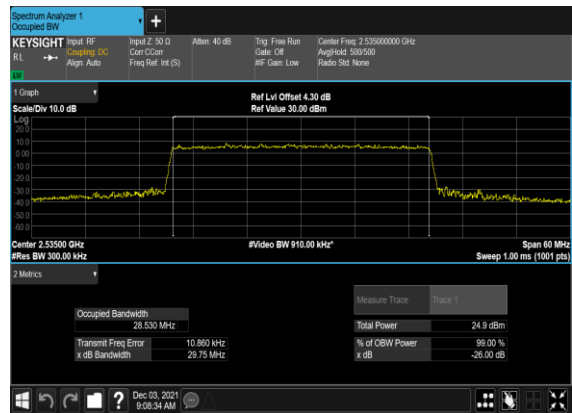
B66_N7(30M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



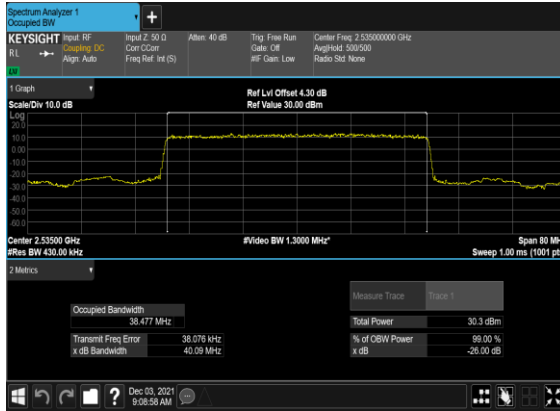
B66_N7(30M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



B66_N7(30M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



B66_N7(40M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



B66_N7(40M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



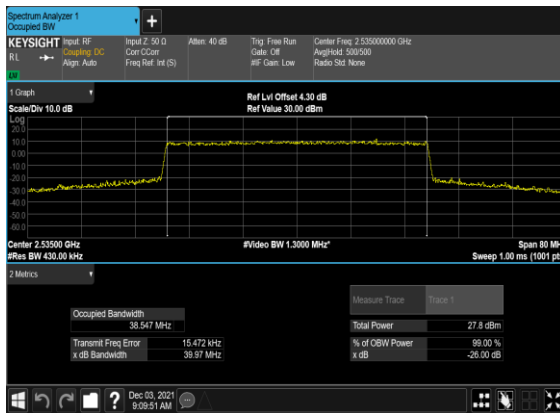
B66_N7(40M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



B66_N7(40M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



B66_N7(40M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



B66_N7(40M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



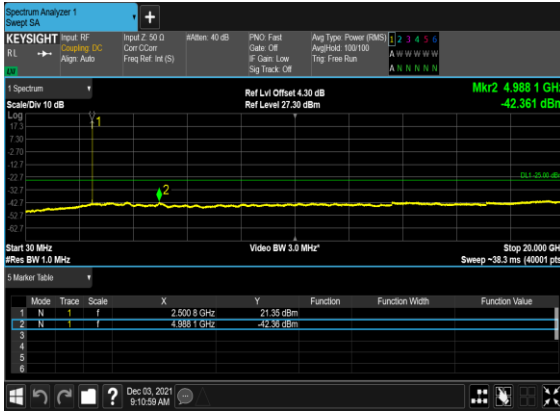
Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
7	15	5	524500	2502.5	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	5	524500	2502.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	5	524500	2502.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	5	524500	2502.5	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	5	524500	2502.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	5	524500	2502.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	5	531000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	5	531000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	5	531000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	5	531000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	5	531000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	5	531000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	5	537500	2567.5	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	5	537500	2567.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	5	537500	2567.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	5	537500	2567.5	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	5	537500	2567.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	5	537500	2567.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	20	526000	2510.0	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	20	526000	2510.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	20	526000	2510.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	20	526000	2510.0	DFT-s-OFDM QPSK	1@0	see graph	---

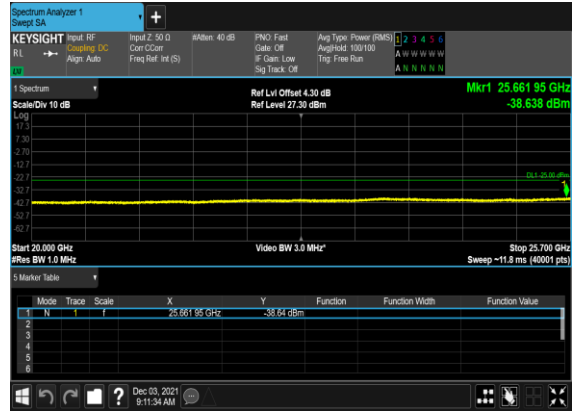
7	15	20	526000	2510.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	20	526000	2510.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	20	531000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	20	531000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	20	531000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	20	531000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	20	531000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	20	531000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	20	536000	2560.0	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	20	536000	2560.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	20	536000	2560.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	20	536000	2560.0	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	20	536000	2560.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	20	536000	2560.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	40	528000	2520.0	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	40	528000	2520.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	40	528000	2520.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	40	528000	2520.0	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	40	528000	2520.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	40	528000	2520.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	40	531000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	40	531000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	40	531000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	40	531000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	---

7	15	40	531000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	40	531000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	40	534000	2550.0	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	40	534000	2550.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	40	534000	2550.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	40	534000	2550.0	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	40	534000	2550.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	40	534000	2550.0	DFT-s-OFDM QPSK	1@0	see graph	PASS

B66_N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



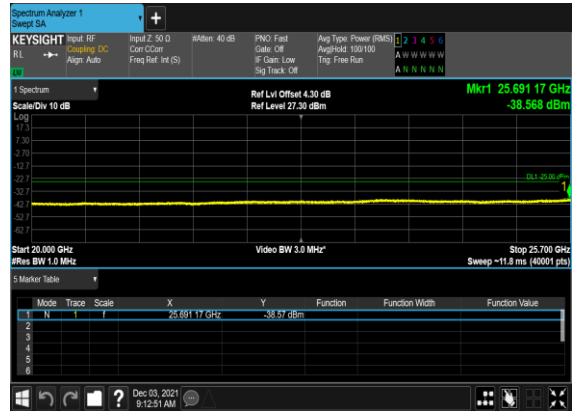
B66_N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



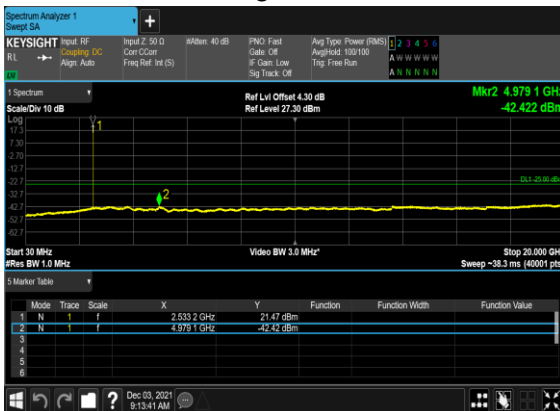
B66_N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



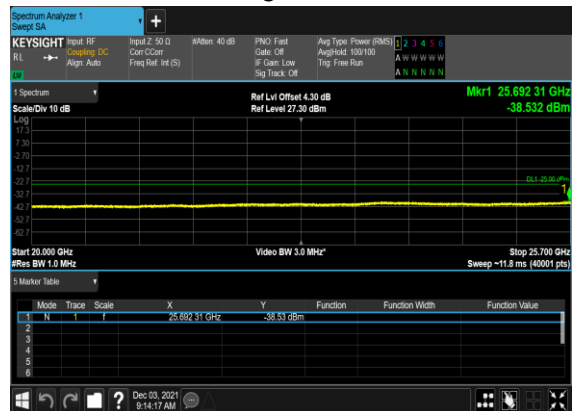
B66_N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



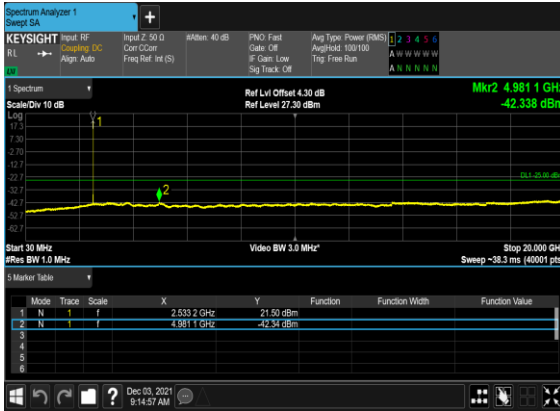
B66_N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



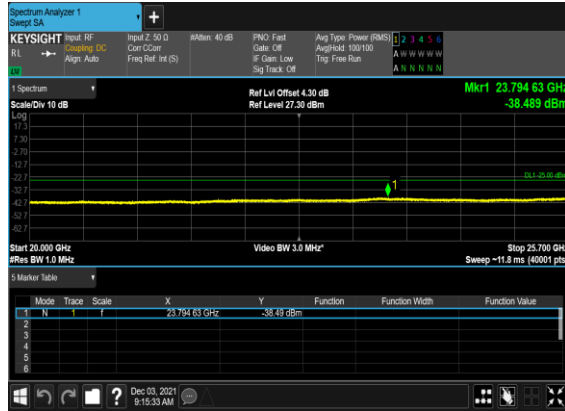
B66_N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



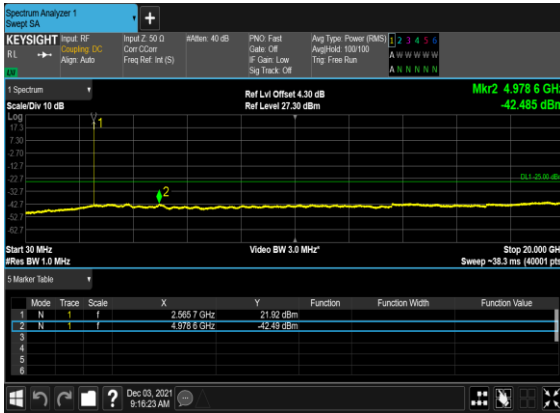
B66_N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



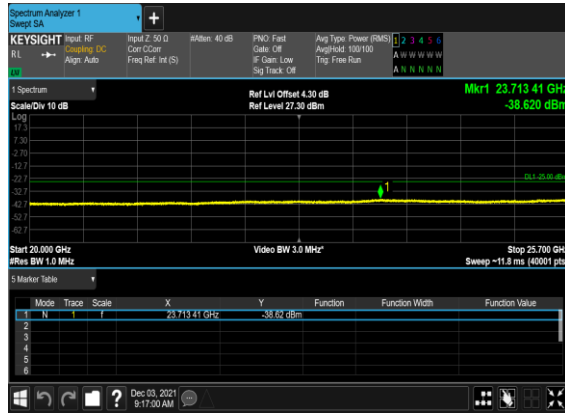
B66_N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



B66_N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



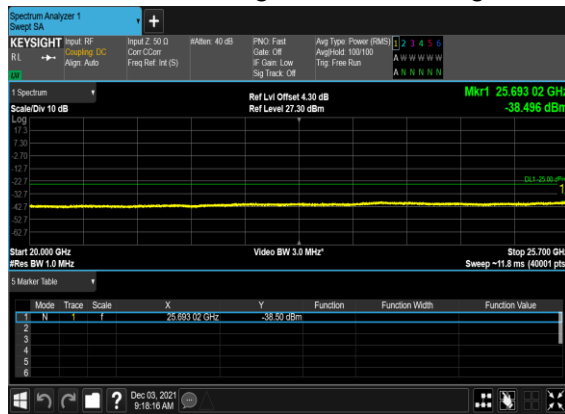
B66_N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



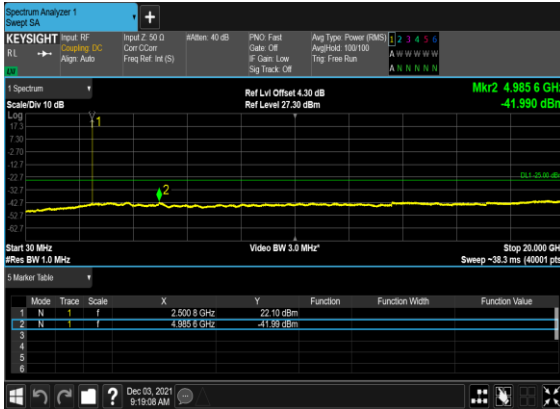
B66_N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



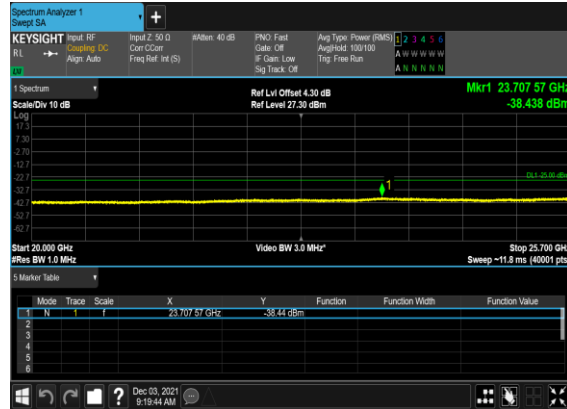
B66_N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



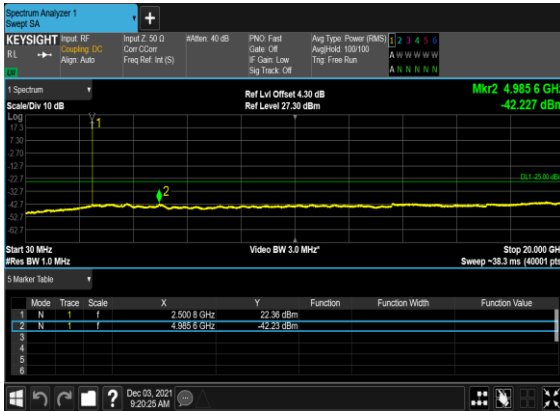
B66_N7(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



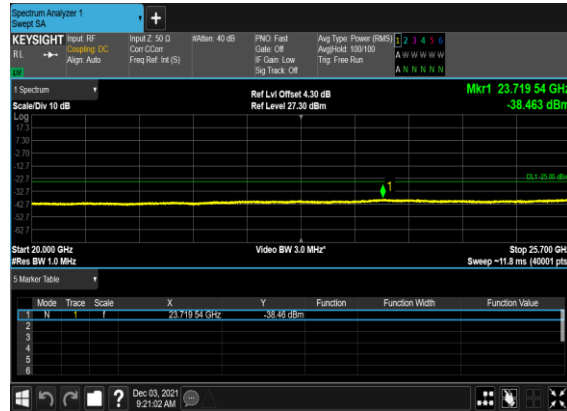
B66_N7(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



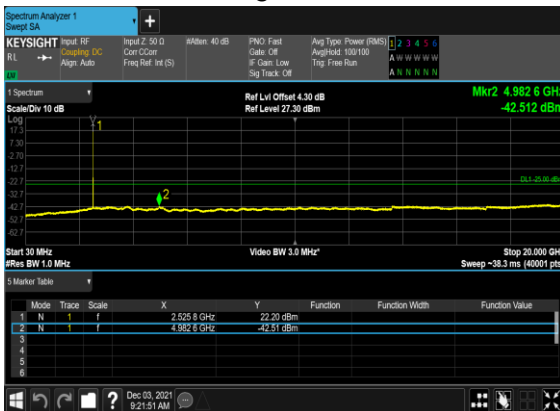
B66_N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



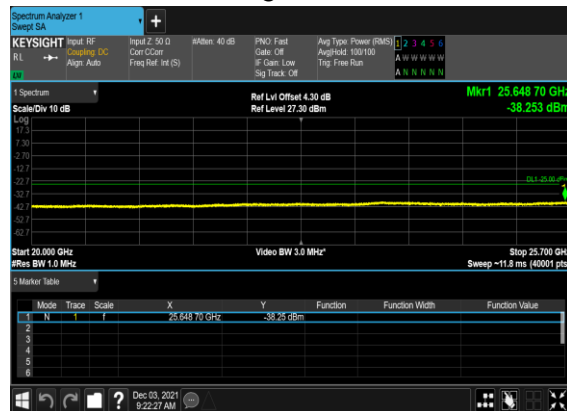
B66_N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



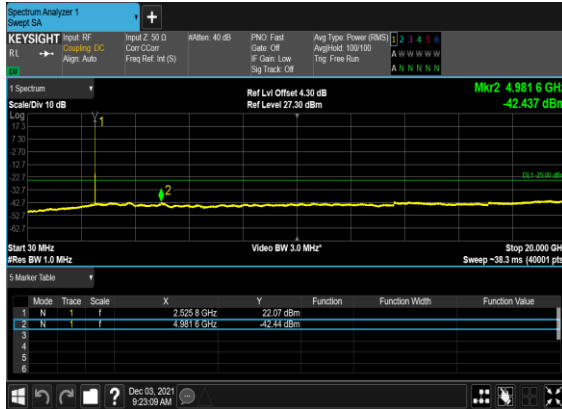
B66_N7(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



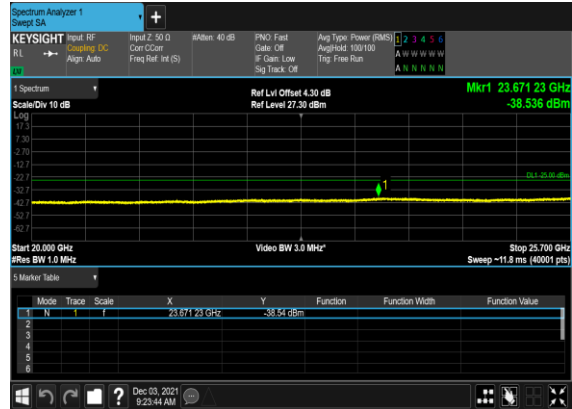
B66_N7(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



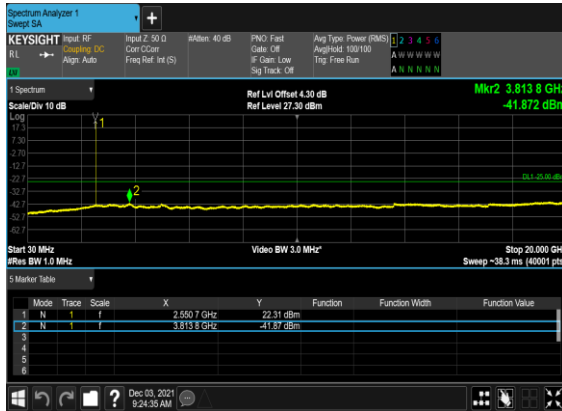
B66_N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



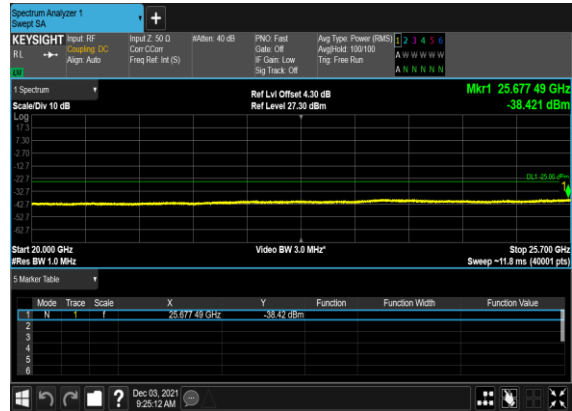
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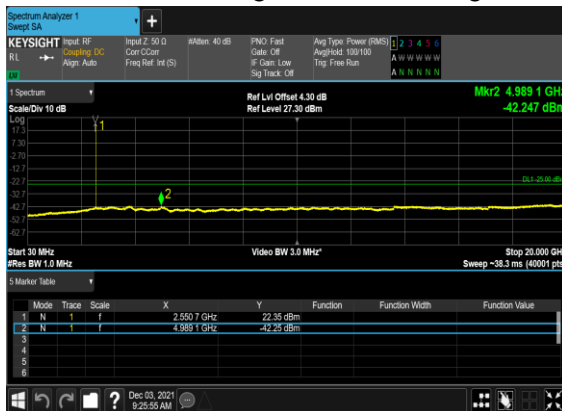
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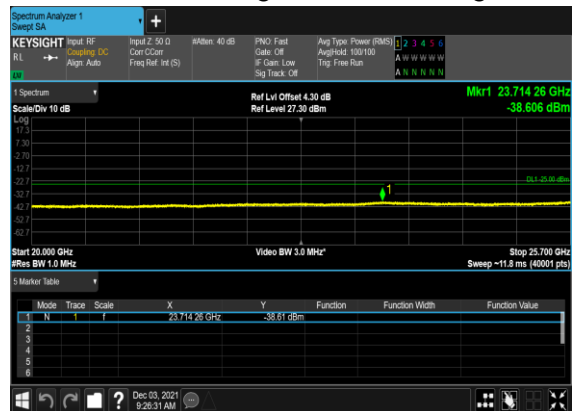
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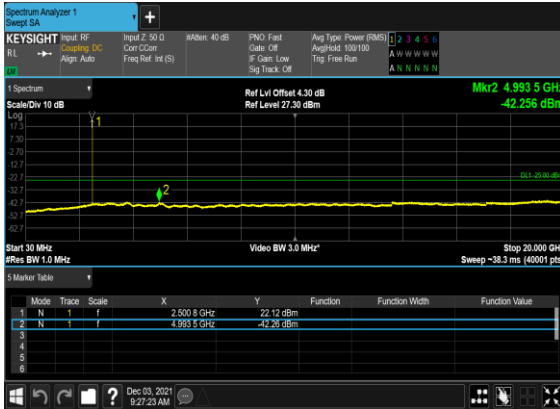
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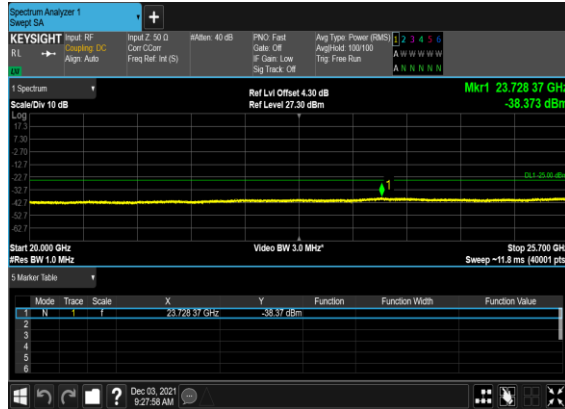
B66_N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



B66_N7(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



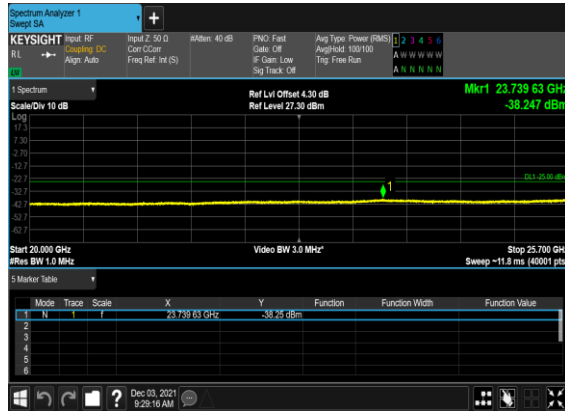
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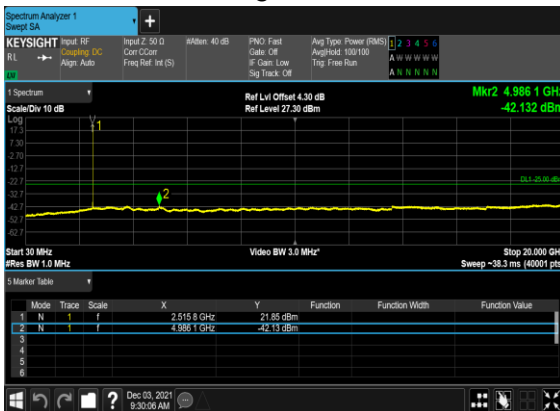
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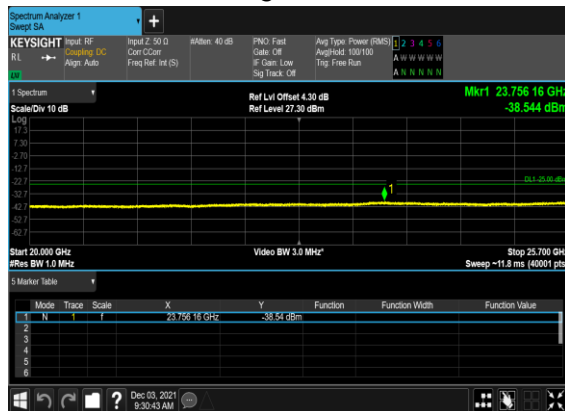
B66_N7(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



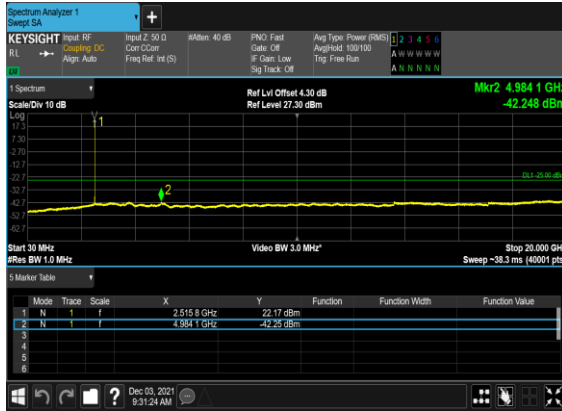
B66_N7(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



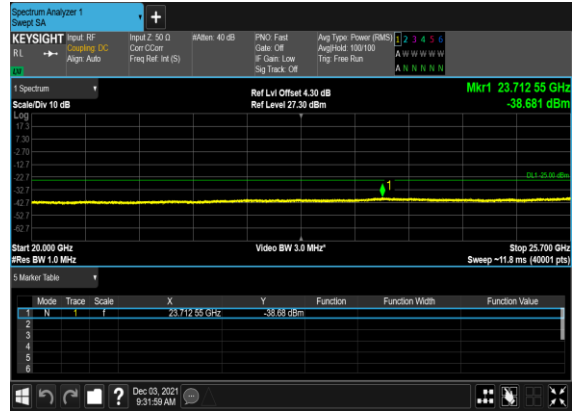
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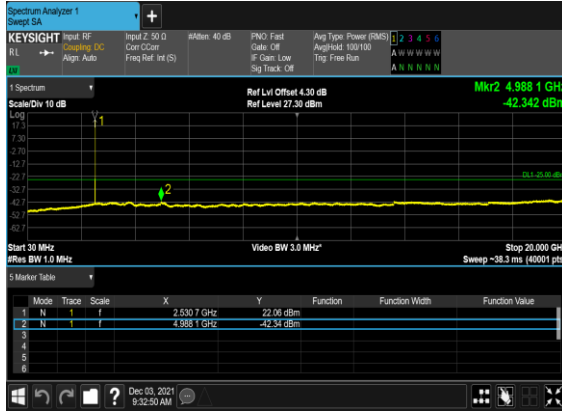
B66_N7(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



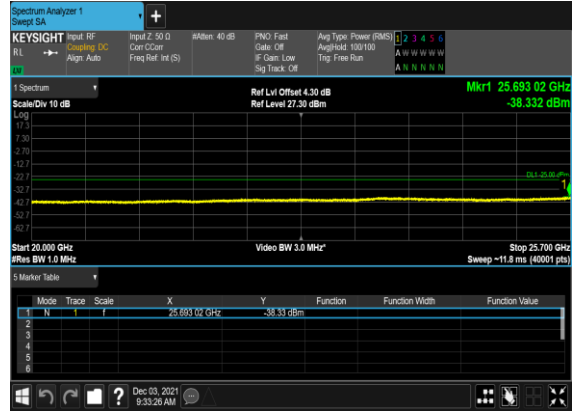
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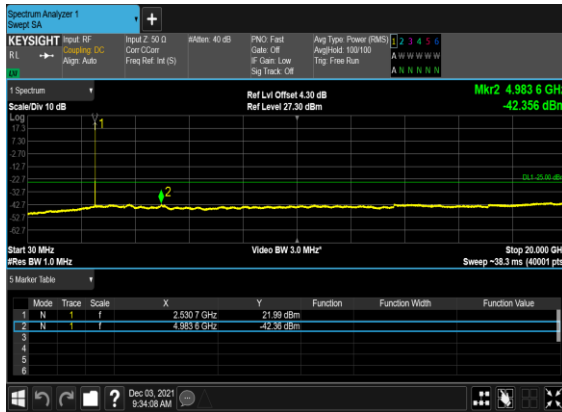
B66_N7(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



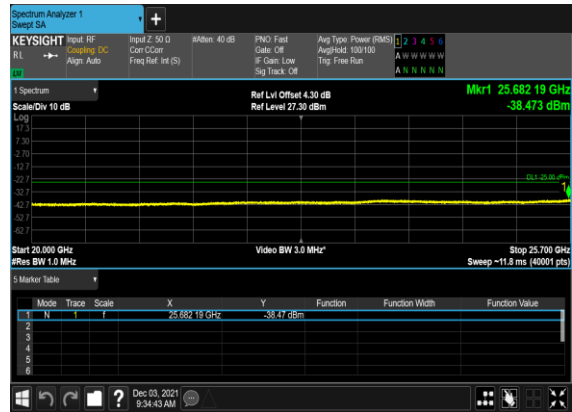
B66_N7(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



B66_N7(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



B66_N7(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

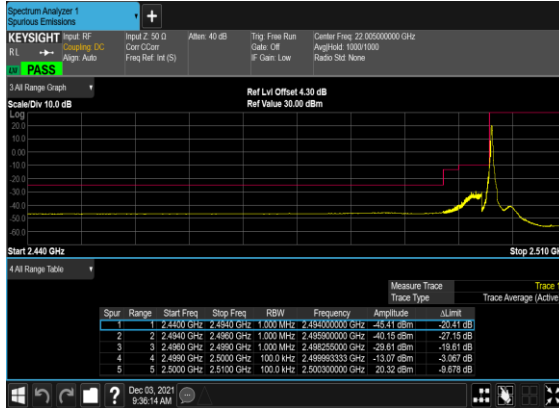


Conducted Band Edge

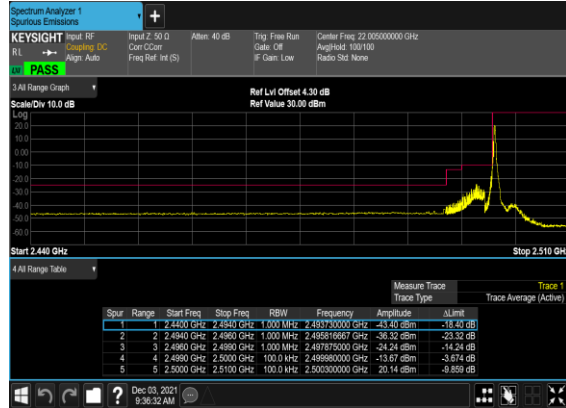
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
7	15	5	524500	2502.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	5	524500	2502.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	5	524500	2502.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
7	15	5	524500	2502.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
7	15	5	537500	2567.5	DFT-s-OFDM BPSK	1@24	see graph	PASS
7	15	5	537500	2567.5	DFT-s-OFDM QPSK	1@24	see graph	PASS
7	15	5	537500	2567.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
7	15	5	537500	2567.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
7	15	20	526000	2510.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	20	526000	2510.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	20	526000	2510.0	DFT-s-OFDM BPSK	100@0	see graph	PASS
7	15	20	526000	2510.0	DFT-s-OFDM QPSK	100@0	see graph	PASS
7	15	20	536000	2560.0	DFT-s-OFDM BPSK	1@105	see graph	PASS
7	15	20	536000	2560.0	DFT-s-OFDM QPSK	1@105	see graph	PASS
7	15	20	536000	2560.0	DFT-s-OFDM BPSK	100@0	see graph	PASS
7	15	20	536000	2560.0	DFT-s-OFDM QPSK	100@0	see graph	PASS
7	15	40	528000	2520.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	40	528000	2520.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	40	528000	2520.0	DFT-s-OFDM BPSK	216@0	see graph	PASS
7	15	40	528000	2520.0	DFT-s-OFDM QPSK	216@0	see graph	PASS
7	15	40	534000	2550.0	DFT-s-OFDM BPSK	1@215	see graph	PASS
7	15	40	534000	2550.0	DFT-s-OFDM QPSK	1@215	see graph	PASS

7	15	40	534000	2550.0	DFT-s-OFDM BPSK	216@0	see graph	PASS
7	15	40	534000	2550.0	DFT-s-OFDM QPSK	216@0	see graph	PASS

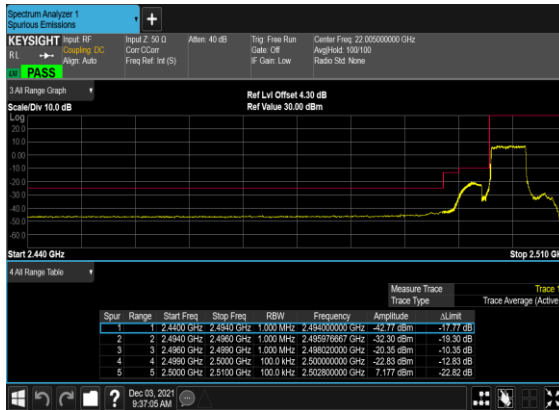
B66_N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



B66_N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



B66_N7(5M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



B66_N7(5M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

