



FCC RF Test Report

APPLICANT : OnePlus Technology (Shenzhen) Co., Ltd.
EQUIPMENT : Mobile Phone
BRAND NAME : ONEPLUS, 
MODEL NAME : CPH2749
FCC ID : 2ABZ2-OP24865
STANDARD : 47 CFR Part 27 Subpart O (3700-3980MHz)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Jul. 12, 2025 ~ Aug. 26, 2025

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.

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Approved by: Fly Liang



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG561202P	Rev. 01	Initial issue of report	Sep. 01, 2025

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§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	-
3.8	§2.1051 §27.53(l)(2)	Conducted Spurious Emission (5G NR n77, n78)	< 43+10log ₁₀ (P[Watts])	PASS	-
3.9	§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 15.6 dB at 9231.00 MHz

Conformity Assessment Condition:

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

Disclaimer:

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



1 General Description

1.1 Applicant

OnePlus Technology (Shenzhen) Co., Ltd.

18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China.

1.2 Manufacturer

OnePlus Technology (Shenzhen) Co., Ltd.

18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China.

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	ONEPLUS, 
Model Name	CPH2749
FCC ID	2ABZ2-OP24865
IMEI Code	Conducted : 867621080022994/867621080022986 Radiation : 867621080023190/867621080023182 for N77 867621080023752/867621080023745 for N77C
HW Version	11
SW Version	OxygenOS 16.0
EUT Stage	Production Unit

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency	5G NR n77: 3700 MHz ~ 3980 MHz 5G NR n78: 3700 MHz ~ 3800 MHz
SCS	30kHz
Bandwidth	n77/n78(30kHz): 10 / 15 / 20 / 25 / 30 / 40 / 50 / 60 / 70 / 80 / 90 / 100MHz
Antenna Gain	<Ant. 4/10/13> 5G NR n77/78: -2 dBi <Ant. 12> 5G NR n77/78: -1 dBi
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

Remark:

1. The maximum EIRP is calculated from max output power and max antenna gain, only the maximum EIRP is shown in the report, 5G NR n77/n77C/n78 for Antenna 10.
2. For conducted test items, only the worse test data of Ant.10 are shown in the report according to the maximum conducted power.
3. 5G NR n77/n78 support SA and NSA mode. The whole testing has assessed SA mode for n77 by referring to the higher conducted power for conducted test items.
4. The device supports HPUE mode for 5G NR n77/n78.
5. All the supported EN-DC combinations are verified conducted power, only the EN-DC combination with highest power are shown in the report.
6. The EN-DC mode combination could be referred to the product spec.

1.5 Modification of EUT

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



1.6 Maximum EIRP and Emission Designator

5G NR n77		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3705.00 ~ 3975.00	0.3090	8M57G7D	0.2477	8M58W7D
15	3705.52 ~ 3972.48	0.3062	13M6G7D	0.2421	13M6W7D
20	3710.01 ~ 3969.99	0.3090	18M2G7D	0.2393	18M2W7D
25	3712.50 ~ 3967.50	0.3141	23M2G7D	0.2466	23M2W7D
30	3715.02 ~ 3964.98	0.3162	27M8G7D	0.2495	27M9W7D
40	3720.00 ~ 3960.00	0.3155	37M9G7D	0.2455	37M8W7D
50	3725.01 ~ 3954.99	0.3251	47M4G7D	0.2564	47M6W7D
60	3730.02 ~ 3949.98	0.3155	57M8G7D	0.2460	57M9W7D
70	3735.00 ~ 3945.00	0.3170	67M5G7D	0.2518	67M6W7D
80	3740.01 ~ 3939.99	0.3214	77M7G7D	0.2472	77M6W7D
90	3745.02 ~ 3934.98	0.3251	87M3G7D	0.2576	87M8W7D
100	3750.00 ~ 3930.00	0.3436	97M6G7D	0.2710	97M7W7D

5G NR n78		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3705.00 ~ 3795.00	0.3243	8M57G7D	0.2559	8M58W7D
15	3707.52 ~ 3792.48	0.3170	13M6G7D	0.2477	13M6W7D
20	3710.01 ~ 3789.99	0.3236	18M2G7D	0.2506	18M2W7D
25	3712.50 ~ 3787.50	0.3258	23M2G7D	0.2518	23M2W7D
30	3715.02 ~ 3784.98	0.3221	27M8G7D	0.2612	27M9W7D
40	3720.00 ~ 3780.00	0.3251	37M9G7D	0.2582	37M8W7D
50	3725.01 ~ 3774.99	0.3373	47M4G7D	0.2704	47M6W7D
60	3730.02 ~ 3769.98	0.3148	57M8G7D	0.2512	57M9W7D
70	3735.00 ~ 3765.00	0.3357	67M5G7D	0.2685	67M6W7D
80	3740.01 ~ 3759.99	0.3311	77M7G7D	0.2600	77M6W7D
90	3745.02 ~ 3754.98	0.3296	87M3G7D	0.2624	87M8W7D
100	3750.00 ~ 3750.00	0.3381	97M6G7D	0.2661	97M7W7D



NRCA_n77C	PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
NR BW 10MHz+100MHz	0.1358	108MG7D	0.1259	108MW7D
NR BW 100MHz+10MHz	0.2547	108MG7D	0.2168	108MW7D
NR BW 100MHz+100MHz	0.2958	196MG7D	0.2483	196MW7D
NR BW 100MHz+15MHz	0.2547	113MG7D	0.2183	113MW7D
NR BW 100MHz+20MHz	0.2704	118MG7D	0.2089	118MW7D
NR BW 100MHz+25MHz	0.2618	123MG7D	0.2094	123MW7D
NR BW 100MHz+30MHz	0.2594	127MG7D	0.2158	127MW7D
NR BW 100MHz+40MHz	0.2541	137MG7D	0.2094	137MW7D
NR BW 100MHz+50MHz	0.2495	147MG7D	0.2099	147MW7D
NR BW 100MHz+60MHz	0.2541	157MG7D	0.1849	157MW7D
NR BW 100MHz+70MHz	0.2793	166MG7D	0.2416	166MW7D
NR BW 100MHz+80MHz	0.2449	176MG7D	0.1941	177MW7D
NR BW 100MHz+90MHz	0.2383	186MG7D	0.1758	186MW7D
NR BW 15MHz+100MHz	0.1374	113MG7D	0.1256	113MW7D
NR BW 15MHz+90MHz	0.1380	103MG7D	0.1245	103MW7D
NR BW 20MHz+100MHz	0.1349	118MG7D	0.1262	118MW7D
NR BW 20MHz+90MHz	0.1371	108MG7D	0.1274	108MW7D
NR BW 25MHz+100MHz	0.1374	123MG7D	0.1268	123MW7D
NR BW 25MHz+80MHz	0.1355	102MG7D	0.1239	103MW7D
NR BW 25MHz+90MHz	0.1377	112MG7D	0.1256	123MW7D
NR BW 30MHz+100MHz	0.1324	127MG7D	0.1309	127MW7D
NR BW 30MHz+80MHz	0.1358	107MG7D	0.1253	108MW7D
NR BW 30MHz+90MHz	0.1352	117MG7D	0.1236	117MW7D
NR BW 40MHz+100MHz	0.1358	137MG7D	0.1259	137MW7D
NR BW 40MHz+70MHz	0.1327	107MG7D	0.1250	108MW7D
NR BW 40MHz+80MHz	0.1371	117MG7D	0.1247	118MW7D
NR BW 40MHz+90MHz	0.1365	127MG7D	0.1268	127MW7D
NR BW 50MHz+100MHz	0.2649	146MG7D	0.2128	147MW7D
NR BW 50MHz+60MHz	0.2344	108MG7D	0.2275	108MW7D
NR BW 50MHz+70MHz	0.2865	117MG7D	0.2918	118MW7D



NR BW 50MHz+80MHz	0.2466	127MG7D	0.2302	127MW7D
NR BW 50MHz+90MHz	0.2432	137MG7D	0.1888	137MW7D
NR BW 60MHz+100MHz	0.2377	157MG7D	0.2138	157MW7D
NR BW 60MHz+50MHz	0.2422	107MG7D	0.2366	107MW7D
NR BW 60MHz+60MHz	0.2372	118MG7D	0.2318	118MW7D
NR BW 60MHz+70MHz	0.2940	127MG7D	0.2900	127MW7D
NR BW 60MHz+80MHz	0.2455	137MG7D	0.2405	137MW7D
NR BW 60MHz+90MHz	0.2455	147MG7D	0.2037	147MW7D
NR BW 70MHz+100MHz	0.2601	166MG7D	0.2501	166MW7D
NR BW 70MHz+40MHz	0.2661	108MG7D	0.2643	108MW7D
NR BW 70MHz+50MHz	0.2945	118MG7D	0.2925	117MW7D
NR BW 70MHz+60MHz	0.2931	127MG7D	0.2845	128MW7D
NR BW 70MHz+70MHz	0.2686	137MG7D	0.2577	137MW7D
NR BW 70MHz+80MHz	0.2865	147MG7D	0.2852	147MW7D
NR BW 70MHz+90MHz	0.2832	157MG7D	0.2631	157MW7D
NR BW 80MHz+100MHz	0.2334	176MG7D	0.1914	176MW7D
NR BW 80MHz+25MHz	0.2529	103MG7D	0.2047	103MW7D
NR BW 80MHz+30MHz	0.2350	107MG7D	0.2056	107MW7D
NR BW 80MHz+40MHz	0.2529	117MG7D	0.2239	117MW7D
NR BW 80MHz+50MHz	0.2524	127MG7D	0.1973	127MW7D
NR BW 80MHz+60MHz	0.2280	137MG7D	0.1875	137MW7D
NR BW 80MHz+70MHz	0.2898	147MG7D	0.2297	147MW7D
NR BW 80MHz+80MHz	0.2339	157MG7D	0.1977	157MW7D
NR BW 80MHz+90MHz	0.2945	167MG7D	0.2483	166MW7D
NR BW 90MHz+100MHz	0.2410	186MG7D	0.1888	186MW7D
NR BW 90MHz+15MHz	0.2704	103MG7D	0.2119	103MW7D
NR BW 90MHz+20MHz	0.2410	108MG7D	0.2114	108MW7D
NR BW 90MHz+25MHz	0.2643	113MG7D	0.2198	113MW7D
NR BW 90MHz+30MHz	0.2535	117MG7D	0.2163	118MW7D
NR BW 90MHz+40MHz	0.2416	127MG7D	0.2148	127MW7D
NR BW 90MHz+50MHz	0.2607	137MG7D	0.2163	137MW7D
NR BW 90MHz+60MHz	0.2489	147MG7D	0.1875	147MW7D
NR BW 90MHz+70MHz	0.2674	157MG7D	0.2583	157MW7D
NR BW 90MHz+80MHz	0.2318	167MG7D	0.1963	167MW7D
NR BW 90MHz+90MHz	0.2472	177MG7D	0.1879	177MW7D

Note:

1. 5G NR Band n77 overlaps the entire frequency range of Band n78, and n77 power > n78 power, therefore the conducted test results of n77 provided in this report cover n78.
2. All modulations have been tested, and only the worst test results of PSK & QAM are shown in the report.

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	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-SZ 03CH02-SZ	CN1256	421272

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH02-SZ	AUDIX	E3	6.2009-8-24a

1.9 Applicable Standards

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

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

Remark:

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

2 Test Configuration of Equipment Under Test

2.1 Test Mode

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

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Z 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		
		10	15	20	25	30	40	50	60	70~90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256 QAM	1	Partial	Full	L	M	H
Max. Output Power	n77	v	v	v	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	v	v	v
Peak-to-Average Ratio	n77			v								v	v						v		v	
26dB and 99% Bandwidth	n77	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v			v		v	
Conducted Band Edge	n77	v						v			v	v	v				v		v	v		v
Conducted Spurious Emission	n77	v						v			v	v	v				v			v	v	v
Frequency Stability	n77			v									v						v		v	
E.I.R.P	n77	v	v	v	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	v	v	v
Radiated Spurious Emission	n77	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. Frequency Stability : Normal Voltage = 8.0V; Low Voltage =7.2V; High Voltage =9.0V.																					

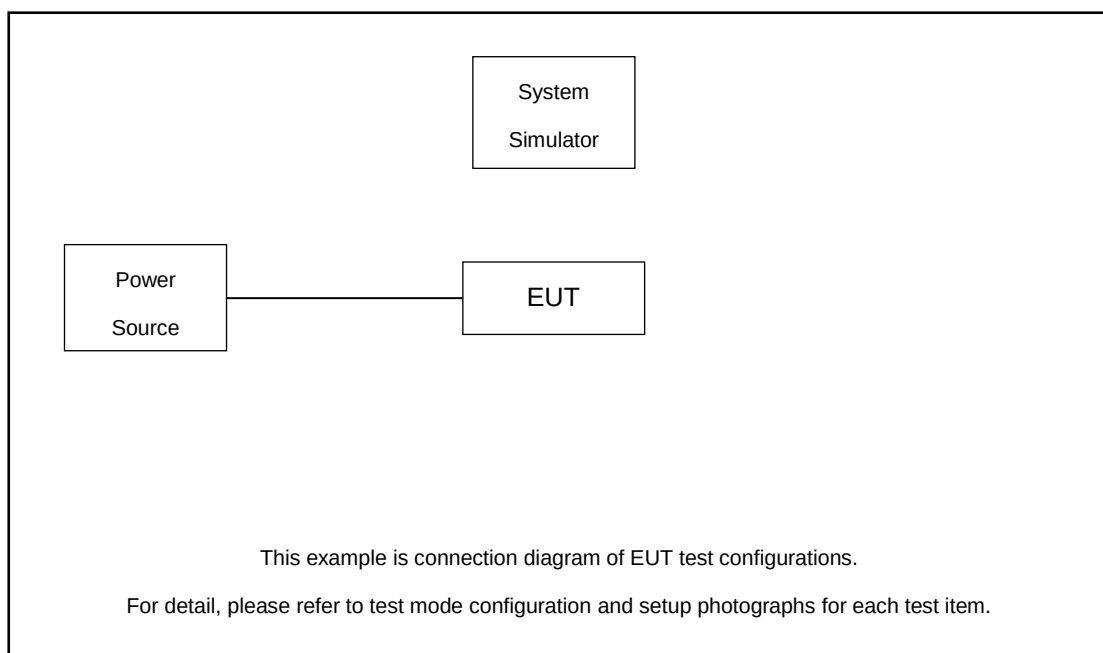


Test Cases	Band	Bandwidth (MHz)	Modulation	RB #	Test Channel
		eg. 10M+100M, 100M+10M, 100M+100M,100M+15M,100M+20M,100M+25M, 100M+30M,100M+40M,100M+50M,100M+60M, 100M+70M, 100M+80M, 100M+90M, 15M+100M 15M+90M, 20M+100M, 20M+90M, 25M+100M, 25M+80M, 25M+90M, 30M+100M ,30M+80M, 30M+90M, 40M+100M, 40M+70M, 40M+80M, 40M+90M, 50M+100M, 50M+60M, 50M+70M 50M+80M, 50M+90M, 60M+100M, 60M+50M, 60M+60M, 60M+70M, 60M+80M 60M+90M, 70M+100M, 70M+40M, 70M+50M, 70M+60M,70M+70M,70M+80M 70M+90M, 80M+100M, 80M+25M, 80M+30M, 80M+40M, 80M+50M, 80M+60M 80M+70M, 80M+80M, 80M+90M, 90M+100M, 90M+15M, 90M+20M, 90M+25M 90M+30M, 90M+40M, 90M+50M, 90M+60M, 90M+70M, 90M+80M, 90M+90M	eg. PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB, Partial RB, Full RB	L/M/H
Max. Output Power and E.I.R.P	n77C	All supported Bandwidth	All Modulation	1RB, Full RB	L, M, H
26dB and 99% Bandwidth	n77C	All supported Bandwidth	QPSK, 16QAM, 64QAM, 256QAM	Full RB	M
Conducted Band Edge	n77C	15+90M, 100+100M, 100+40M	PI/2 BPSK, QPSK	1RB, Full RB	L, H
Conducted Spurious Emission	n77C	15+90M, 100+100M, 100+40M	PI/2 BPSK, QPSK	1RB, Full RB	L, M, H
Radiated Spurious Emission	n77C	Worst case from maximum power			L, M, H

Note:

- 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.
- All test items are based on engineering evaluation.

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

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

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss 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 8.9 dB

Example :

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} \\ &= 8.9 \text{ (dB)}\end{aligned}$$



2.5 Frequency List of Low/Middle/High Channels

5G n77 (30kHz) 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
25	Channel	647500	656000	664500
	Frequency	3712.5	3840	3967.5
20	Channel	647334	656000	664666
	Frequency	3710.01	3840	3969.99
15	Channel	647168	656000	664832
	Frequency	3707.52	3840	3972.48
10	Channel	647000	656000	665000
	Frequency	3705	3840	3975



5G n78(30kHz) 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	651000
	Frequency	3735	3750	3765
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
25	Channel	647500	650000	652500
	Frequency	3712.5	3750	3787.5
20	Channel	647334	650000	652666
	Frequency	3710.01	3750	3789.99
15	Channel	647168	650000	652832
	Frequency	3707.52	3750	3792.48
10	Channel	647000	650000	653000
	Frequency	3705	3750	3795

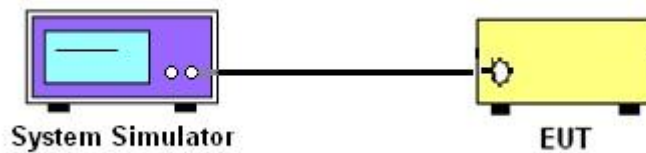
3 Conducted Test Items

3.1 Measuring Instruments

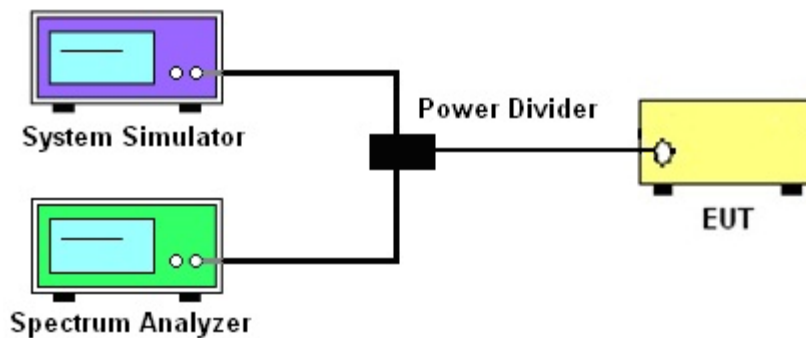
See list of measuring instruments of this test report.

3.2 Test Setup

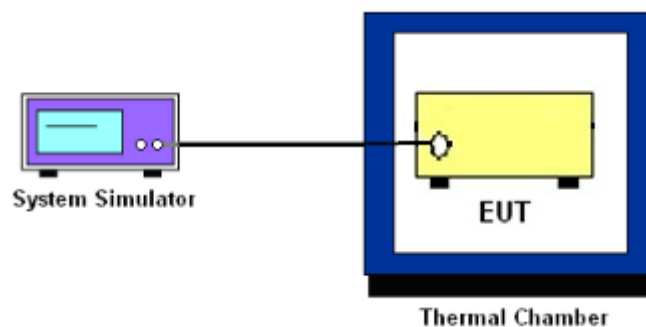
3.2.1 Conducted Output Power



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 1 Watts for 5G NR n77, 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(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 or a narrower RBW was used (generally limited to no less than 1% of the OBW) and the measured power was integrated over the full required measurement bandwidth.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.

Example:

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

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

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

9. 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 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)
 $= -13\text{dBm}$.

3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

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

3.9.2 Test Procedures for Temperature Variation

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

3.9.3 Test Procedures for Voltage Variation

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

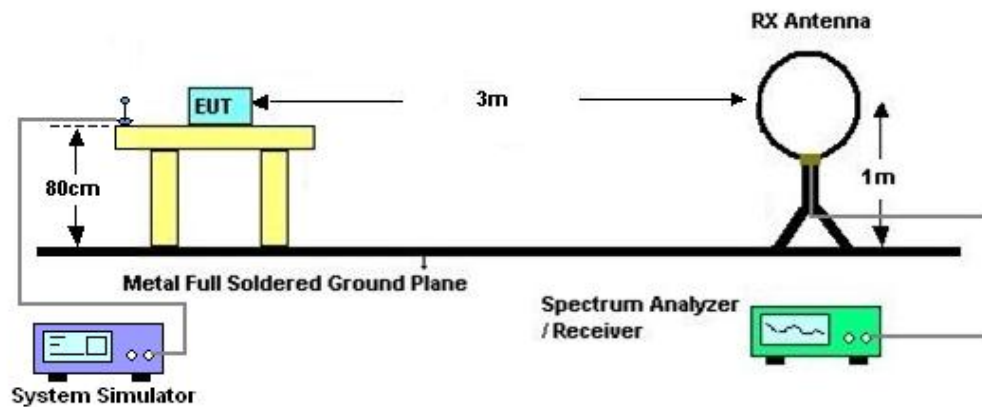
4 Radiated Test Items

4.1 Measuring Instruments

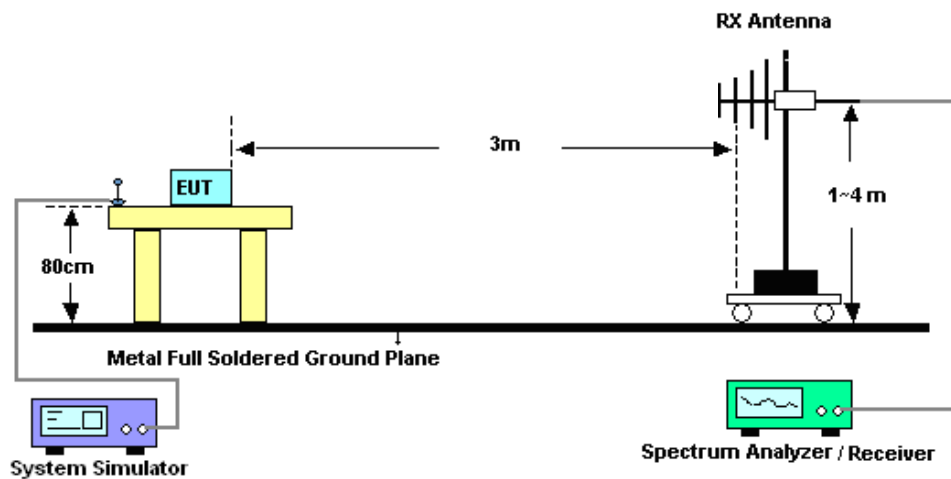
See list of measuring instruments of this test report.

4.2 Test Setup

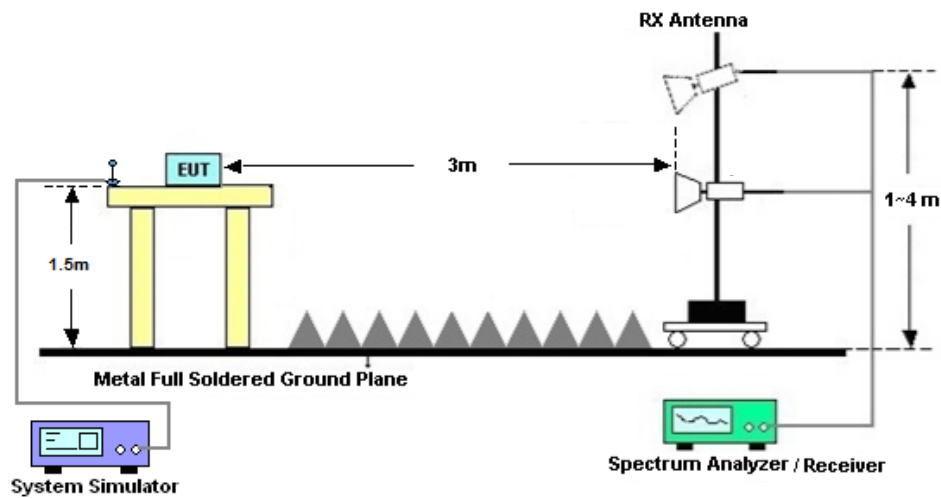
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

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

Please refer to Appendix B.



4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

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

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

4.4.2 Test Procedures

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

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
= $P(W) - [43 + 10\log(P)] \text{ (dB)}$
= $[30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
= -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. 02, 2025	Jul. 12, 2025	Apr. 01, 2026	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V , 3A	Oct.14,2024	Jul. 12, 2025	Oct. 13, 2025	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 24, 2024	Jul. 12, 2025	Dec. 23, 2025	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 02, 2025	Jul. 12, 2025	Jul. 01, 2026	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2025	Aug. 26, 2025	Jul. 02, 2026	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	Aug. 26, 2025	Dec. 27, 2025	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Oct. 24, 2023	Aug. 26, 2025	Oct. 23, 2025	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2025	Aug. 26, 2025	Jul. 04, 2026	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 03, 2025	Aug. 26, 2025	Jul. 03, 2026	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 03, 2025	Aug. 26, 2025	Apr. 02, 2027	Radiation (03CH02-SZ)
LF Amplifier	EM Electronics	EM330	060788	20MHz-3GHz	Dec. 25, 2024	Aug. 26, 2025	Dec. 24, 2025	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 14, 2024	Aug. 26, 2025	Oct. 13, 2025	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010003043	N/A	Oct. 18, 2024	Aug. 26, 2025	Oct. 17, 2025	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Aug. 26, 2025	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Aug. 26, 2025	NCR	Radiation (03CH02-SZ)

NCR: No Calibration Required

6 Measurement Uncertainty

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

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	± 1.34 dB
Occupied Channel Bandwidth	± 0.012 MHz
Conducted Power	± 1.34 dB
Peak to Average Ratio	± 1.34 dB
Frequency Stability	± 1.3 Hz

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.47 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.31 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.72 dB
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----- THE END -----



Appendix A. Test Results of Conducted Test

Test Engineer :	Khan Zhen	Temperature :	22~23°C
		Relative Humidity :	40~42%



Software Version: 23.06.1602

FR1 N77-Ant 10

Transmitter Conducted Output Power And EIRP, ($G_T - L_C$)=-2dB

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
77	30	10	647000	3705	DFT-s-OFDM QPSK	12@6	26.87	24.87	0.3069
77	30	10	647000	3705	DFT-s-OFDM QPSK	1@1	26.83	24.83	0.3041
77	30	10	647000	3705	DFT-s-OFDM QPSK	1@22	26.9	24.9	0.3090
77	30	10	647000	3705	DFT-s-OFDM 16 QAM	12@6	25.94	23.94	0.2477
77	30	10	647000	3705	DFT-s-OFDM 16 QAM	1@1	25.71	23.71	0.2350
77	30	10	647000	3705	DFT-s-OFDM 16 QAM	1@22	25.88	23.88	0.2443
77	30	10	656000	3840	DFT-s-OFDM QPSK	12@6	26.78	24.78	0.3006
77	30	10	656000	3840	DFT-s-OFDM QPSK	1@1	26.68	24.68	0.2938
77	30	10	656000	3840	DFT-s-OFDM QPSK	1@22	26.76	24.76	0.2992
77	30	10	656000	3840	DFT-s-OFDM 16 QAM	12@6	25.81	23.81	0.2404
77	30	10	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.71	23.71	0.2350
77	30	10	656000	3840	DFT-s-OFDM 16 QAM	1@22	25.7	23.7	0.2344
77	30	10	665000	3975	DFT-s-OFDM QPSK	12@6	26.66	24.66	0.2924
77	30	10	665000	3975	DFT-s-OFDM QPSK	1@1	26.58	24.58	0.2871
77	30	10	665000	3975	DFT-s-OFDM QPSK	1@22	26.58	24.58	0.2871
77	30	10	665000	3975	DFT-s-OFDM 16 QAM	12@6	25.63	23.63	0.2307
77	30	10	665000	3975	DFT-s-OFDM 16 QAM	1@1	25.61	23.61	0.2296
77	30	10	665000	3975	DFT-s-OFDM 16 QAM	1@22	25.6	23.6	0.2291
77	30	15	647168	3707.52	DFT-s-OFDM QPSK	18@9	26.79	24.79	0.3013
77	30	15	647168	3707.52	DFT-s-OFDM QPSK	1@1	26.86	24.86	0.3062
77	30	15	647168	3707.52	DFT-s-OFDM QPSK	1@36	26.78	24.78	0.3006
77	30	15	647168	3707.52	DFT-s-OFDM 16 QAM	18@9	25.77	23.77	0.2382
77	30	15	647168	3707.52	DFT-s-OFDM 16 QAM	1@1	25.77	23.77	0.2382
77	30	15	647168	3707.52	DFT-s-OFDM 16 QAM	1@36	25.84	23.84	0.2421
77	30	15	656000	3840	DFT-s-OFDM QPSK	18@9	26.84	24.84	0.3048
77	30	15	656000	3840	DFT-s-OFDM QPSK	1@1	26.8	24.8	0.3020
77	30	15	656000	3840	DFT-s-OFDM QPSK	1@36	26.74	24.74	0.2979
77	30	15	656000	3840	DFT-s-OFDM 16 QAM	18@9	25.59	23.59	0.2286
77	30	15	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.74	23.74	0.2366
77	30	15	656000	3840	DFT-s-OFDM 16 QAM	1@36	25.72	23.72	0.2355
77	30	15	664832	3972.48	DFT-s-OFDM QPSK	18@9	26.64	24.64	0.2911
77	30	15	664832	3972.48	DFT-s-OFDM QPSK	1@1	26.55	24.55	0.2851
77	30	15	664832	3972.48	DFT-s-OFDM QPSK	1@36	26.53	24.53	0.2838



77	30	15	664832	3972.48	DFT-s-OFDM 16 QAM	18@9	25.5	23.5	0.2239
77	30	15	664832	3972.48	DFT-s-OFDM 16 QAM	1@1	25.54	23.54	0.2259
77	30	15	664832	3972.48	DFT-s-OFDM 16 QAM	1@36	25.55	23.55	0.2265
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	25@12	26.83	24.83	0.3041
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@1	26.75	24.75	0.2985
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@49	26.73	24.73	0.2972
77	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	25@12	25.68	23.68	0.2333
77	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@1	25.78	23.78	0.2388
77	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@49	25.75	23.75	0.2371
77	30	20	656000	3840	DFT-s-OFDM QPSK	25@12	26.9	24.9	0.3090
77	30	20	656000	3840	DFT-s-OFDM QPSK	1@1	26.91	24.91	0.3097
77	30	20	656000	3840	DFT-s-OFDM QPSK	1@49	26.73	24.73	0.2972
77	30	20	656000	3840	DFT-s-OFDM 16 QAM	25@12	25.79	23.79	0.2393
77	30	20	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.7	23.7	0.2344
77	30	20	656000	3840	DFT-s-OFDM 16 QAM	1@49	25.68	23.68	0.2333
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	25@12	26.66	24.66	0.2924
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	1@1	26.6	24.6	0.2884
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	1@49	26.5	24.5	0.2818
77	30	20	664666	3969.99	DFT-s-OFDM 16 QAM	25@12	25.57	23.57	0.2275
77	30	20	664666	3969.99	DFT-s-OFDM 16 QAM	1@1	25.54	23.54	0.2259
77	30	20	664666	3969.99	DFT-s-OFDM 16 QAM	1@49	25.5	23.5	0.2239
77	30	25	647500	3712.5	DFT-s-OFDM QPSK	32@16	26.97	24.97	0.3141
77	30	25	647500	3712.5	DFT-s-OFDM QPSK	1@1	26.83	24.83	0.3041
77	30	25	647500	3712.5	DFT-s-OFDM QPSK	1@63	26.7	24.7	0.2951
77	30	25	647500	3712.5	DFT-s-OFDM 16 QAM	32@16	25.87	23.87	0.2438
77	30	25	647500	3712.5	DFT-s-OFDM 16 QAM	1@1	25.86	23.86	0.2432
77	30	25	647500	3712.5	DFT-s-OFDM 16 QAM	1@63	25.76	23.76	0.2377
77	30	25	656000	3840	DFT-s-OFDM QPSK	32@16	26.92	24.92	0.3105
77	30	25	656000	3840	DFT-s-OFDM QPSK	1@1	26.93	24.93	0.3112
77	30	25	656000	3840	DFT-s-OFDM QPSK	1@63	26.73	24.73	0.2972
77	30	25	656000	3840	DFT-s-OFDM 16 QAM	32@16	25.84	23.84	0.2421
77	30	25	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.92	23.92	0.2466
77	30	25	656000	3840	DFT-s-OFDM 16 QAM	1@63	25.77	23.77	0.2382
77	30	25	664500	3967.5	DFT-s-OFDM QPSK	32@16	26.75	24.75	0.2985
77	30	25	664500	3967.5	DFT-s-OFDM QPSK	1@1	26.69	24.69	0.2944
77	30	25	664500	3967.5	DFT-s-OFDM QPSK	1@63	26.69	24.69	0.2944
77	30	25	664500	3967.5	DFT-s-OFDM 16 QAM	32@16	25.66	23.66	0.2323
77	30	25	664500	3967.5	DFT-s-OFDM 16 QAM	1@1	25.71	23.71	0.2350
77	30	25	664500	3967.5	DFT-s-OFDM 16 QAM	1@63	25.67	23.67	0.2328
77	30	30	647668	3715.02	DFT-s-OFDM QPSK	36@18	27	25	0.3162
77	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@1	26.95	24.95	0.3126



77	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@76	26.8	24.8	0.3020
77	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	36@18	25.92	23.92	0.2466
77	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	1@1	25.95	23.95	0.2483
77	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	1@76	25.78	23.78	0.2388
77	30	30	656000	3840	DFT-s-OFDM QPSK	36@18	26.94	24.94	0.3119
77	30	30	656000	3840	DFT-s-OFDM QPSK	1@1	26.9	24.9	0.3090
77	30	30	656000	3840	DFT-s-OFDM QPSK	1@76	26.69	24.69	0.2944
77	30	30	656000	3840	DFT-s-OFDM 16 QAM	36@18	25.84	23.84	0.2421
77	30	30	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.97	23.97	0.2495
77	30	30	656000	3840	DFT-s-OFDM 16 QAM	1@76	25.76	23.76	0.2377
77	30	30	664332	3964.98	DFT-s-OFDM QPSK	36@18	26.69	24.69	0.2944
77	30	30	664332	3964.98	DFT-s-OFDM QPSK	1@1	26.69	24.69	0.2944
77	30	30	664332	3964.98	DFT-s-OFDM QPSK	1@76	26.65	24.65	0.2917
77	30	30	664332	3964.98	DFT-s-OFDM 16 QAM	36@18	25.58	23.58	0.2280
77	30	30	664332	3964.98	DFT-s-OFDM 16 QAM	1@1	25.64	23.64	0.2312
77	30	30	664332	3964.98	DFT-s-OFDM 16 QAM	1@76	25.62	23.62	0.2301
77	30	40	648000	3720	DFT-s-OFDM QPSK	50@25	26.99	24.99	0.3155
77	30	40	648000	3720	DFT-s-OFDM QPSK	1@1	26.89	24.89	0.3083
77	30	40	648000	3720	DFT-s-OFDM QPSK	1@104	26.65	24.65	0.2917
77	30	40	648000	3720	DFT-s-OFDM 16 QAM	50@25	25.84	23.84	0.2421
77	30	40	648000	3720	DFT-s-OFDM 16 QAM	1@1	25.9	23.9	0.2455
77	30	40	648000	3720	DFT-s-OFDM 16 QAM	1@104	25.68	23.68	0.2333
77	30	40	656000	3840	DFT-s-OFDM QPSK	50@25	26.94	24.94	0.3119
77	30	40	656000	3840	DFT-s-OFDM QPSK	1@1	16.24	14.24	0.0265
77	30	40	656000	3840	DFT-s-OFDM QPSK	1@104	26.59	24.59	0.2877
77	30	40	656000	3840	DFT-s-OFDM 16 QAM	50@25	25.81	23.81	0.2404
77	30	40	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.79	23.79	0.2393
77	30	40	656000	3840	DFT-s-OFDM 16 QAM	1@104	25.55	23.55	0.2265
77	30	40	664000	3960	DFT-s-OFDM QPSK	50@25	26.71	24.71	0.2958
77	30	40	664000	3960	DFT-s-OFDM QPSK	1@1	26.61	24.61	0.2891
77	30	40	664000	3960	DFT-s-OFDM QPSK	1@104	26.63	24.63	0.2904
77	30	40	664000	3960	DFT-s-OFDM 16 QAM	50@25	25.58	23.58	0.2280
77	30	40	664000	3960	DFT-s-OFDM 16 QAM	1@1	25.58	23.58	0.2280
77	30	40	664000	3960	DFT-s-OFDM 16 QAM	1@104	25.6	23.6	0.2291
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	64@32	27.11	25.11	0.3243
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@1	27.04	25.04	0.3192
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@131	26.71	24.71	0.2958
77	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	64@32	26.09	24.09	0.2564
77	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@1	26.04	24.04	0.2535
77	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@131	25.7	23.7	0.2344
77	30	50	656000	3840	DFT-s-OFDM QPSK	64@32	27.12	25.12	0.3251



77	30	50	656000	3840	DFT-s-OFDM QPSK	1@1	27.01	25.01	0.3170
77	30	50	656000	3840	DFT-s-OFDM QPSK	1@131	26.72	24.72	0.2965
77	30	50	656000	3840	DFT-s-OFDM 16 QAM	64@32	25.95	23.95	0.2483
77	30	50	656000	3840	DFT-s-OFDM 16 QAM	1@1	26.06	24.06	0.2547
77	30	50	656000	3840	DFT-s-OFDM 16 QAM	1@131	25.76	23.76	0.2377
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	64@32	26.9	24.9	0.3090
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@1	26.67	24.67	0.2931
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@131	26.65	24.65	0.2917
77	30	50	663666	3954.99	DFT-s-OFDM 16 QAM	64@32	25.76	23.76	0.2377
77	30	50	663666	3954.99	DFT-s-OFDM 16 QAM	1@1	25.66	23.66	0.2323
77	30	50	663666	3954.99	DFT-s-OFDM 16 QAM	1@131	25.71	23.71	0.2350
77	30	60	648668	3730.02	DFT-s-OFDM QPSK	81@40	26.73	24.73	0.2972
77	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@1	26.99	24.99	0.3155
77	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@160	26.51	24.51	0.2825
77	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	81@40	25.74	23.74	0.2366
77	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	1@1	25.91	23.91	0.2460
77	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	1@160	25.51	23.51	0.2244
77	30	60	656000	3840	DFT-s-OFDM QPSK	81@40	26.73	24.73	0.2972
77	30	60	656000	3840	DFT-s-OFDM QPSK	1@1	26.53	24.53	0.2838
77	30	60	656000	3840	DFT-s-OFDM QPSK	1@160	26.49	24.49	0.2812
77	30	60	656000	3840	DFT-s-OFDM 16 QAM	81@40	25.79	23.79	0.2393
77	30	60	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.88	23.88	0.2443
77	30	60	656000	3840	DFT-s-OFDM 16 QAM	1@160	25.63	23.63	0.2307
77	30	60	663332	3949.98	DFT-s-OFDM QPSK	81@40	26.22	24.22	0.2642
77	30	60	663332	3949.98	DFT-s-OFDM QPSK	1@1	26.37	24.37	0.2735
77	30	60	663332	3949.98	DFT-s-OFDM QPSK	1@160	26.24	24.24	0.2655
77	30	60	663332	3949.98	DFT-s-OFDM 16 QAM	81@40	25.19	23.19	0.2084
77	30	60	663332	3949.98	DFT-s-OFDM 16 QAM	1@1	25.27	23.27	0.2123
77	30	60	663332	3949.98	DFT-s-OFDM 16 QAM	1@160	25.3	23.3	0.2138
77	30	70	649000	3735	DFT-s-OFDM QPSK	90@45	26.9	24.9	0.3090
77	30	70	649000	3735	DFT-s-OFDM QPSK	1@1	27.01	25.01	0.3170
77	30	70	649000	3735	DFT-s-OFDM QPSK	1@187	26.67	24.67	0.2931
77	30	70	649000	3735	DFT-s-OFDM 16 QAM	90@45	25.83	23.83	0.2415
77	30	70	649000	3735	DFT-s-OFDM 16 QAM	1@1	26.01	24.01	0.2518
77	30	70	649000	3735	DFT-s-OFDM 16 QAM	1@187	25.72	23.72	0.2355
77	30	70	656000	3840	DFT-s-OFDM QPSK	90@45	27.01	25.01	0.3170
77	30	70	656000	3840	DFT-s-OFDM QPSK	1@1	26.96	24.96	0.3133
77	30	70	656000	3840	DFT-s-OFDM QPSK	1@187	26.56	24.56	0.2858
77	30	70	656000	3840	DFT-s-OFDM 16 QAM	90@45	25.89	23.89	0.2449
77	30	70	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.87	23.87	0.2438
77	30	70	656000	3840	DFT-s-OFDM 16 QAM	1@187	25.62	23.62	0.2301



77	30	70	663000	3945	DFT-s-OFDM QPSK	90@45	26.52	24.52	0.2831
77	30	70	663000	3945	DFT-s-OFDM QPSK	1@1	26.71	24.71	0.2958
77	30	70	663000	3945	DFT-s-OFDM QPSK	1@187	26.35	24.35	0.2723
77	30	70	663000	3945	DFT-s-OFDM 16 QAM	90@45	25.42	23.42	0.2198
77	30	70	663000	3945	DFT-s-OFDM 16 QAM	1@1	25.59	23.59	0.2286
77	30	70	663000	3945	DFT-s-OFDM 16 QAM	1@187	25.43	23.43	0.2203
77	30	80	649334	3740.01	DFT-s-OFDM QPSK	108@54	26.88	24.88	0.3076
77	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@1	27.07	25.07	0.3214
77	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@215	26.67	24.67	0.2931
77	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	108@54	25.77	23.77	0.2382
77	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	1@1	25.93	23.93	0.2472
77	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	1@215	25.67	23.67	0.2328
77	30	80	656000	3840	DFT-s-OFDM QPSK	108@54	27.02	25.02	0.3177
77	30	80	656000	3840	DFT-s-OFDM QPSK	1@1	26.88	24.88	0.3076
77	30	80	656000	3840	DFT-s-OFDM QPSK	1@215	26.54	24.54	0.2844
77	30	80	656000	3840	DFT-s-OFDM 16 QAM	108@54	25.82	23.82	0.2410
77	30	80	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.91	23.91	0.2460
77	30	80	656000	3840	DFT-s-OFDM 16 QAM	1@215	25.61	23.61	0.2296
77	30	80	662666	3939.99	DFT-s-OFDM QPSK	108@54	26.48	24.48	0.2805
77	30	80	662666	3939.99	DFT-s-OFDM QPSK	1@1	26.7	24.7	0.2951
77	30	80	662666	3939.99	DFT-s-OFDM QPSK	1@215	26.32	24.32	0.2704
77	30	80	662666	3939.99	DFT-s-OFDM 16 QAM	108@54	25.36	23.36	0.2168
77	30	80	662666	3939.99	DFT-s-OFDM 16 QAM	1@1	25.78	23.78	0.2388
77	30	80	662666	3939.99	DFT-s-OFDM 16 QAM	1@215	25.4	23.4	0.2188
77	30	90	649668	3745.02	DFT-s-OFDM QPSK	120@60	26.92	24.92	0.3105
77	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@1	27.12	25.12	0.3251
77	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@243	26.73	24.73	0.2972
77	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	120@60	25.75	23.75	0.2371
77	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@1	26.11	24.11	0.2576
77	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@243	25.79	23.79	0.2393
77	30	90	656000	3840	DFT-s-OFDM QPSK	120@60	26.96	24.96	0.3133
77	30	90	656000	3840	DFT-s-OFDM QPSK	1@1	26.99	24.99	0.3155
77	30	90	656000	3840	DFT-s-OFDM QPSK	1@243	26.55	24.55	0.2851
77	30	90	656000	3840	DFT-s-OFDM 16 QAM	120@60	25.85	23.85	0.2427
77	30	90	656000	3840	DFT-s-OFDM 16 QAM	1@1	26.09	24.09	0.2564
77	30	90	656000	3840	DFT-s-OFDM 16 QAM	1@243	25.5	23.5	0.2239
77	30	90	662332	3934.98	DFT-s-OFDM QPSK	120@60	26.43	24.43	0.2773
77	30	90	662332	3934.98	DFT-s-OFDM QPSK	1@1	26.84	24.84	0.3048
77	30	90	662332	3934.98	DFT-s-OFDM QPSK	1@243	26.21	24.21	0.2636
77	30	90	662332	3934.98	DFT-s-OFDM 16 QAM	120@60	25.3	23.3	0.2138
77	30	90	662332	3934.98	DFT-s-OFDM 16 QAM	1@1	25.9	23.9	0.2455



77	30	90	662332	3934.98	DFT-s-OFDM 16 QAM	1@243	25.27	23.27	0.2123
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	135@67	26.32	24.32	0.2704
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	26.62	24.62	0.2897
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@271	26.64	24.64	0.2911
77	30	100	650000	3750	DFT-s-OFDM QPSK	135@67	26.77	24.77	0.2999
77	30	100	650000	3750	DFT-s-OFDM QPSK	1@1	27.08	25.08	0.3221
77	30	100	650000	3750	DFT-s-OFDM QPSK	1@271	27.1	25.1	0.3236
77	30	100	650000	3750	DFT-s-OFDM 16 QAM	135@67	25.78	23.78	0.2388
77	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@1	26.11	24.11	0.2576
77	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@271	26.04	24.04	0.2535
77	30	100	650000	3750	DFT-s-OFDM 64 QAM	135@67	24.36	22.36	0.1722
77	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@1	24.58	22.58	0.1811
77	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@271	24.54	22.54	0.1795
77	30	100	650000	3750	DFT-s-OFDM 256 QAM	135@67	22.3	20.3	0.1072
77	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@1	22.36	20.36	0.1086
77	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@271	22.39	20.39	0.1094
77	30	100	650000	3750	CP-OFDM QPSK	137@68	25.12	23.12	0.2051
77	30	100	650000	3750	CP-OFDM QPSK	1@1	25.47	23.47	0.2223
77	30	100	650000	3750	CP-OFDM QPSK	1@271	25.73	23.73	0.2360
77	30	100	656000	3840	DFT-s-OFDM PI/2 BPSK	135@67	26.4	24.4	0.2754
77	30	100	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	26.93	24.93	0.3112
77	30	100	656000	3840	DFT-s-OFDM PI/2 BPSK	1@271	26.15	24.15	0.2600
77	30	100	656000	3840	DFT-s-OFDM QPSK	135@67	26.83	24.83	0.3041
77	30	100	656000	3840	DFT-s-OFDM QPSK	1@1	27.36	25.36	0.3436
77	30	100	656000	3840	DFT-s-OFDM QPSK	1@271	26.58	24.58	0.2871
77	30	100	656000	3840	DFT-s-OFDM 16 QAM	135@67	25.84	23.84	0.2421
77	30	100	656000	3840	DFT-s-OFDM 16 QAM	1@1	26.33	24.33	0.2710
77	30	100	656000	3840	DFT-s-OFDM 16 QAM	1@271	25.69	23.69	0.2339
77	30	100	656000	3840	DFT-s-OFDM 64 QAM	135@67	24.39	22.39	0.1734
77	30	100	656000	3840	DFT-s-OFDM 64 QAM	1@1	24.89	22.89	0.1945
77	30	100	656000	3840	DFT-s-OFDM 64 QAM	1@271	24.08	22.08	0.1614
77	30	100	656000	3840	DFT-s-OFDM 256 QAM	135@67	22.4	20.4	0.1096
77	30	100	656000	3840	DFT-s-OFDM 256 QAM	1@1	22.77	20.77	0.1194
77	30	100	656000	3840	DFT-s-OFDM 256 QAM	1@271	21.91	19.91	0.0979
77	30	100	656000	3840	CP-OFDM QPSK	137@68	25.2	23.2	0.2089
77	30	100	656000	3840	CP-OFDM QPSK	1@1	25.94	23.94	0.2477
77	30	100	656000	3840	CP-OFDM QPSK	1@271	25.23	23.23	0.2104
77	30	100	662000	3930	DFT-s-OFDM PI/2 BPSK	135@67	26.09	24.09	0.2564
77	30	100	662000	3930	DFT-s-OFDM PI/2 BPSK	1@1	26.77	24.77	0.2999
77	30	100	662000	3930	DFT-s-OFDM PI/2 BPSK	1@271	25.66	23.66	0.2323
77	30	100	662000	3930	DFT-s-OFDM QPSK	135@67	26.53	24.53	0.2838



77	30	100	662000	3930	DFT-s-OFDM QPSK	1@1	27.21	25.21	0.3319
77	30	100	662000	3930	DFT-s-OFDM QPSK	1@271	26.13	24.13	0.2588
77	30	100	662000	3930	DFT-s-OFDM 16 QAM	135@67	25.52	23.52	0.2249
77	30	100	662000	3930	DFT-s-OFDM 16 QAM	1@1	26.25	24.25	0.2661
77	30	100	662000	3930	DFT-s-OFDM 16 QAM	1@271	25.18	23.18	0.2080
77	30	100	662000	3930	DFT-s-OFDM 64 QAM	135@67	24.13	22.13	0.1633
77	30	100	662000	3930	DFT-s-OFDM 64 QAM	1@1	24.64	22.64	0.1837
77	30	100	662000	3930	DFT-s-OFDM 64 QAM	1@271	23.6	21.6	0.1445
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	135@67	22.07	20.07	0.1016
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	1@1	22.48	20.48	0.1117
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	1@271	21.52	19.52	0.0895
77	30	100	662000	3930	CP-OFDM QPSK	137@68	24.9	22.9	0.1950
77	30	100	662000	3930	CP-OFDM QPSK	1@1	25.77	23.77	0.2382
77	30	100	662000	3930	CP-OFDM QPSK	1@271	24.68	22.68	0.1854



Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (Hz)	Verdict	Environment
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	9.9	PASS	NV
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	18.2	PASS	LV
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	12.7	PASS	HV
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	11.2	PASS	-30℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	14.5	PASS	-20℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	9.3	PASS	-10℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	10.9	PASS	0℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	18.6	PASS	10℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	9.9	PASS	20℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	9.9	PASS	30℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	11.6	PASS	40℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	9	PASS	50℃

$|\text{MAX}(\Delta f)| = 18.6 \text{ Hz}$

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	3700.859181	$\geq 3700 \text{ MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	3978.741219	$\leq 3980 \text{ MHz}$	



Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
77	30	20	656000	3840.0	DFT-s-OFDM PI/2 BPSK	50@0	3.64	13	PASS
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	4.24	13	PASS

N77(20M)_DFT-s-OFDM_PI_2-
BPSK Outer Full Mid CH



N77(20M)_DFT-s-OFDM QPSK Outer Full Mid CH



**Occupied Bandwidth**

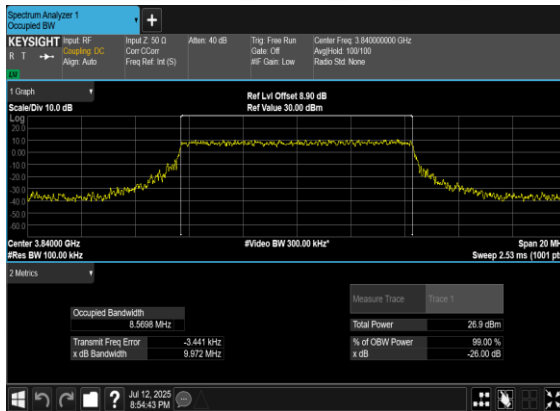
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
77	30	10	656000	3840.0	CP-OFDM QPSK	24@0	8.5698	9.972
77	30	10	656000	3840.0	CP-OFDM 16 QAM	24@0	8.5792	9.674
77	30	10	656000	3840.0	CP-OFDM 64 QAM	24@0	8.5538	9.814
77	30	10	656000	3840.0	CP-OFDM 256 QAM	24@0	8.5621	9.511
77	30	15	656000	3840.0	CP-OFDM QPSK	38@0	13.592	14.62
77	30	15	656000	3840.0	CP-OFDM 16 QAM	38@0	13.608	14.74
77	30	15	656000	3840.0	CP-OFDM 64 QAM	38@0	13.543	14.44
77	30	15	656000	3840.0	CP-OFDM 256 QAM	38@0	13.552	14.57
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	18.183	19.25
77	30	20	656000	3840.0	CP-OFDM 16 QAM	51@0	18.246	19.39
77	30	20	656000	3840.0	CP-OFDM 64 QAM	51@0	18.226	19.45
77	30	20	656000	3840.0	CP-OFDM 256 QAM	51@0	18.239	19.35
77	30	25	656000	3840.0	CP-OFDM QPSK	65@0	23.2	24.47
77	30	25	656000	3840.0	CP-OFDM 16 QAM	65@0	23.167	24.59
77	30	25	656000	3840.0	CP-OFDM 64 QAM	65@0	23.126	24.3
77	30	25	656000	3840.0	CP-OFDM 256 QAM	65@0	23.213	24.55
77	30	30	656000	3840.0	CP-OFDM QPSK	78@0	27.806	29.21
77	30	30	656000	3840.0	CP-OFDM 16 QAM	78@0	27.83	29.41
77	30	30	656000	3840.0	CP-OFDM 64 QAM	78@0	27.762	29.1
77	30	30	656000	3840.0	CP-OFDM 256 QAM	78@0	27.873	29.31
77	30	40	656000	3840.0	CP-OFDM QPSK	106@0	37.921	39.12
77	30	40	656000	3840.0	CP-OFDM 16 QAM	106@0	37.813	39.67
77	30	40	656000	3840.0	CP-OFDM 64 QAM	106@0	37.771	39.33
77	30	40	656000	3840.0	CP-OFDM 256 QAM	106@0	37.82	39.61
77	30	50	656000	3840.0	CP-OFDM QPSK	133@0	47.442	49.0
77	30	50	656000	3840.0	CP-OFDM 16 QAM	133@0	47.336	49.0
77	30	50	656000	3840.0	CP-OFDM 64 QAM	133@0	47.559	49.14
77	30	50	656000	3840.0	CP-OFDM 256 QAM	133@0	47.607	49.09
77	30	60	656000	3840.0	CP-OFDM QPSK	162@0	57.843	59.71
77	30	60	656000	3840.0	CP-OFDM	162@0	57.861	59.62



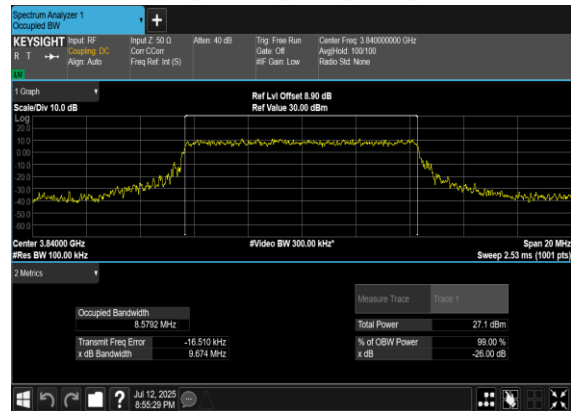
16 QAM									
77	30	60	656000	3840.0	CP-OFDM 64 QAM	162@0	57.807	59.76	
77	30	60	656000	3840.0	CP-OFDM 256 QAM	162@0	57.834	59.67	
77	30	70	656000	3840.0	CP-OFDM QPSK	189@0	67.464	69.72	
77	30	70	656000	3840.0	CP-OFDM 16 QAM	189@0	67.503	70.27	
77	30	70	656000	3840.0	CP-OFDM 64 QAM	189@0	67.588	69.91	
77	30	70	656000	3840.0	CP-OFDM 256 QAM	189@0	67.382	69.74	
77	30	80	656000	3840.0	CP-OFDM QPSK	217@0	77.727	79.95	
77	30	80	656000	3840.0	CP-OFDM 16 QAM	217@0	77.617	80.08	
77	30	80	656000	3840.0	CP-OFDM 64 QAM	217@0	77.554	80.33	
77	30	80	656000	3840.0	CP-OFDM 256 QAM	217@0	77.502	80.12	
77	30	90	656000	3840.0	CP-OFDM QPSK	245@0	87.322	90.3	
77	30	90	656000	3840.0	CP-OFDM 16 QAM	245@0	87.42	90.34	
77	30	90	656000	3840.0	CP-OFDM 64 QAM	245@0	87.6	90.15	
77	30	90	656000	3840.0	CP-OFDM 256 QAM	245@0	87.834	90.19	
77	30	100	656000	3840.0	CP-OFDM QPSK	273@0	97.558	100.6	
77	30	100	656000	3840.0	CP-OFDM 16 QAM	273@0	97.558	100.7	
77	30	100	656000	3840.0	CP-OFDM 64 QAM	273@0	97.476	100.4	
77	30	100	656000	3840.0	CP-OFDM 256 QAM	273@0	97.677	100.5	



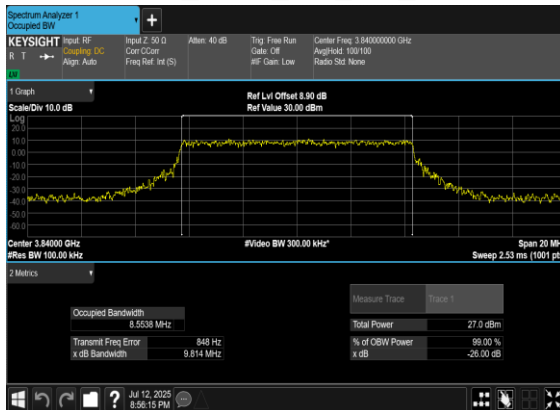
N77(10M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



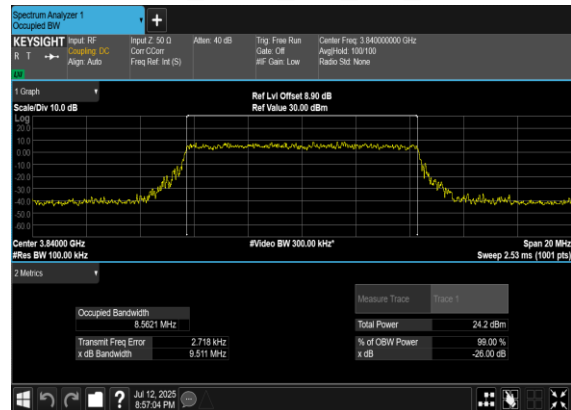
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QAM_Outer_Full_Mid_CH



N77(10M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

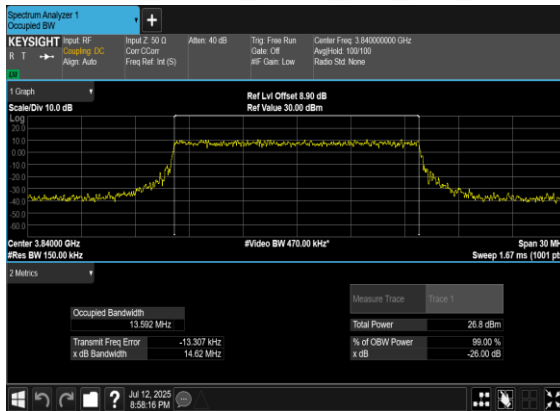


N77(10M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

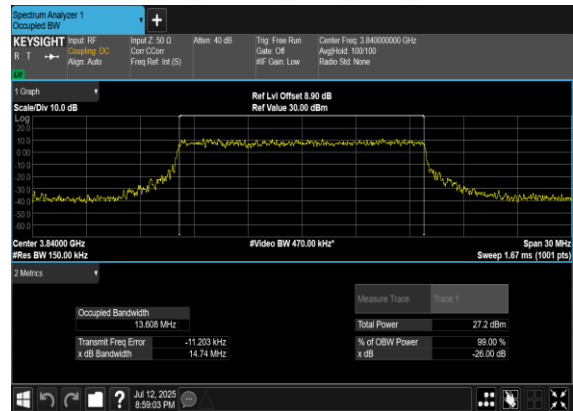




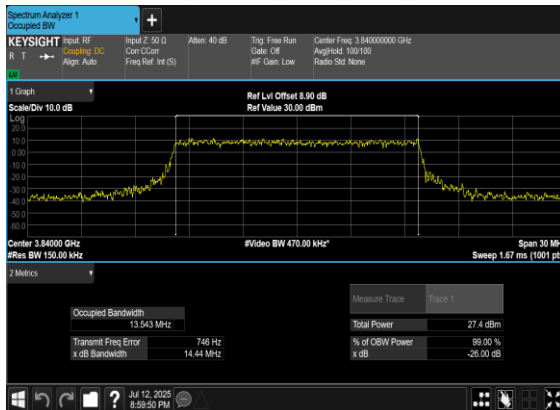
N77(15M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



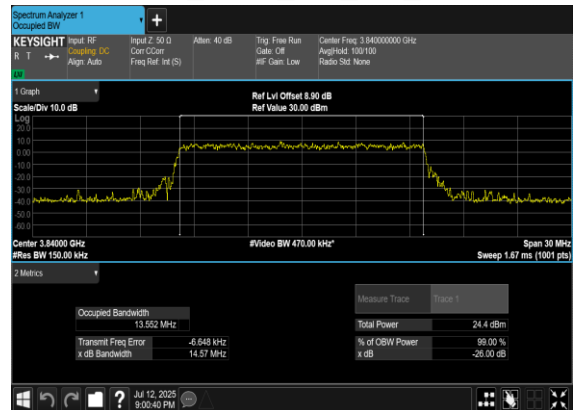
N77(15M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(15M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N77(15M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

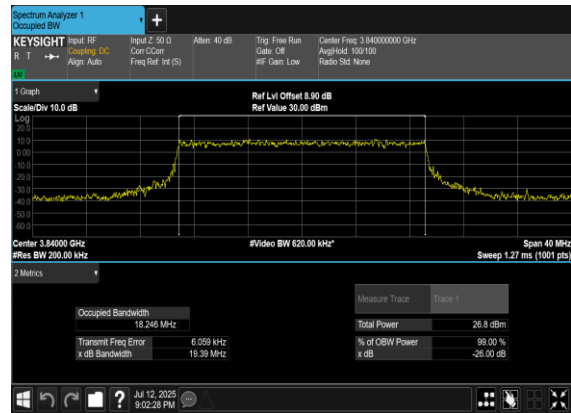




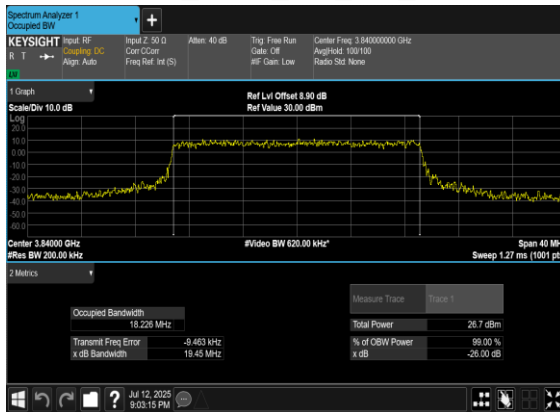
N77(20M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



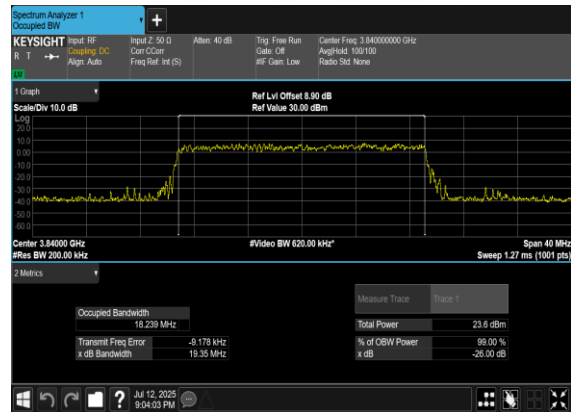
N77(20M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(20M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N77(20M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

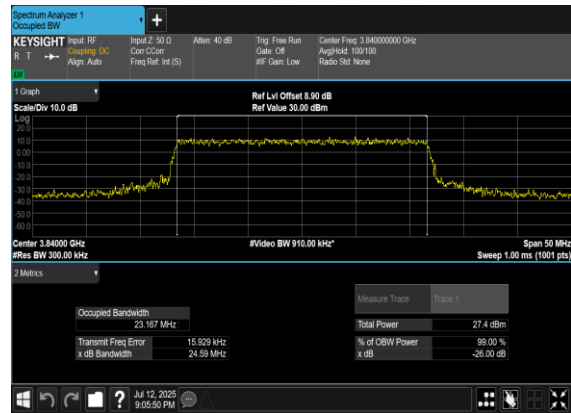




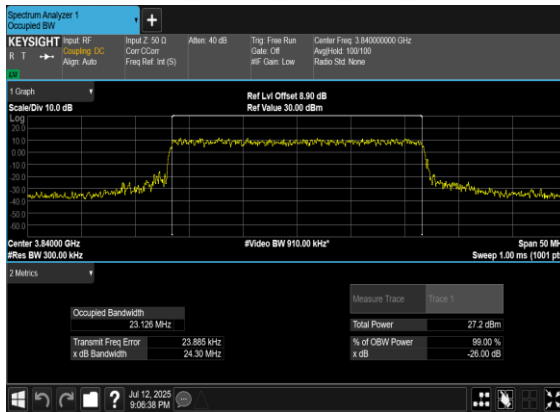
N77(25M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



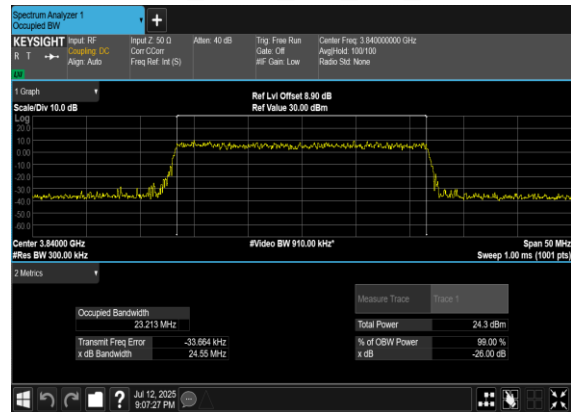
N77(25M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(25M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

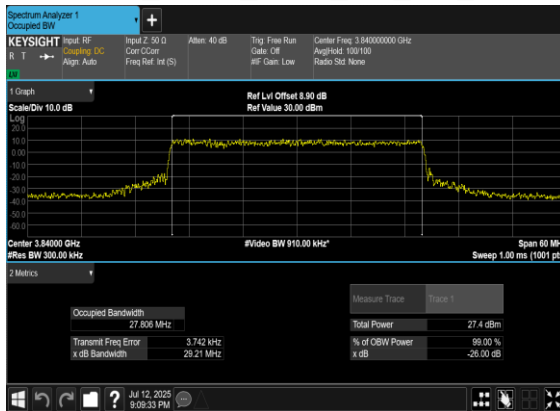


N77(25M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

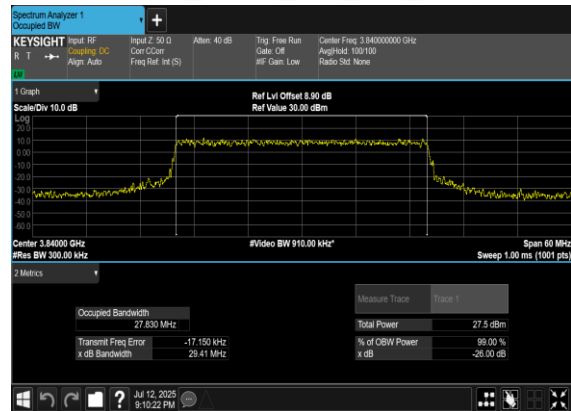




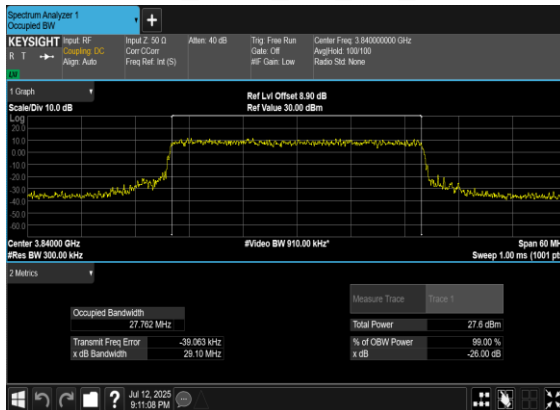
N77(30M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



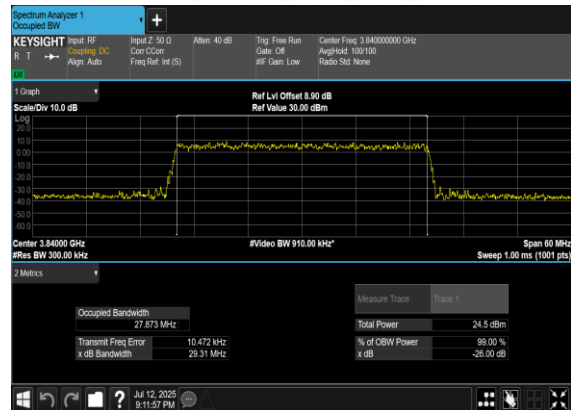
N77(30M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(30M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

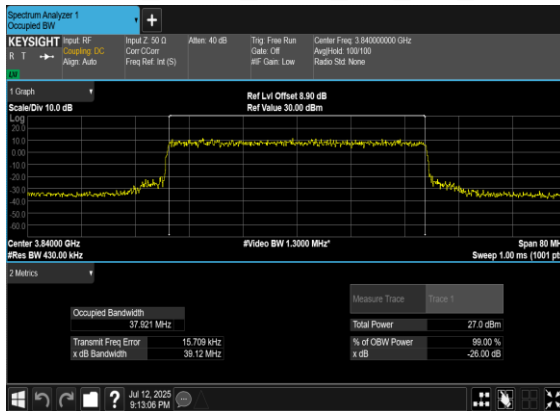


N77(30M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

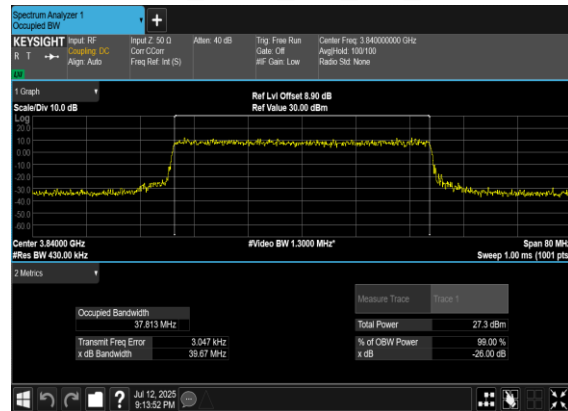




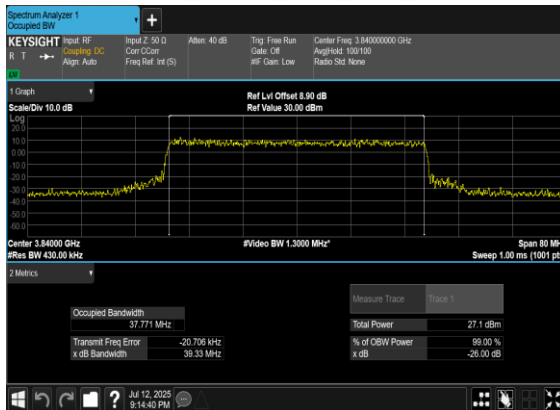
N77(40M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



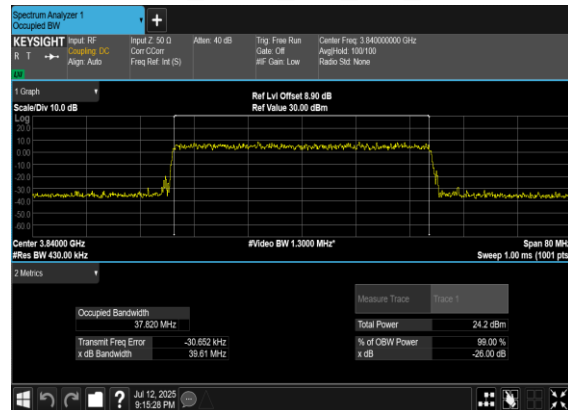
N77(40M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(40M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

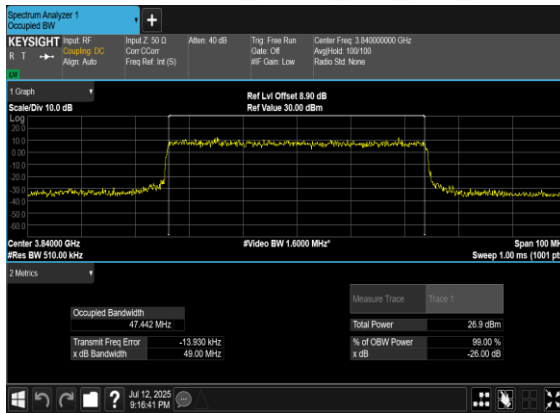


N77(40M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

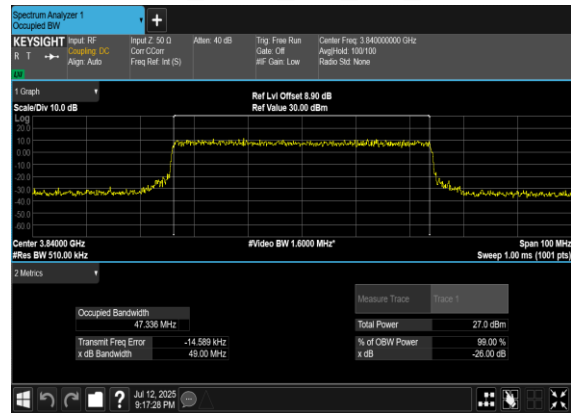




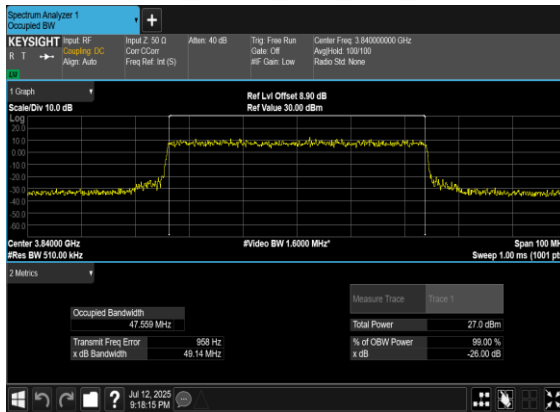
N77(50M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



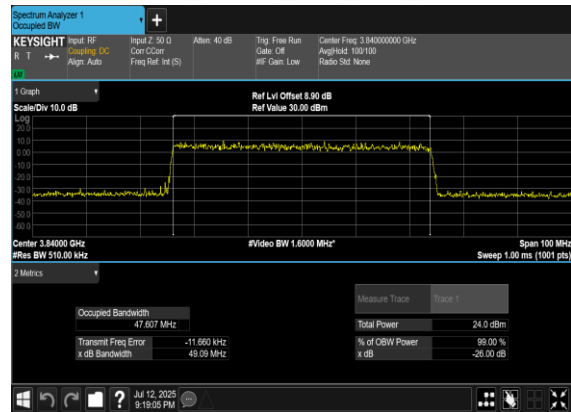
N77(50M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(50M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

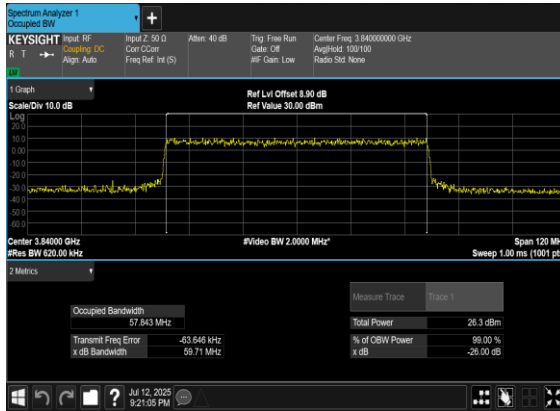


N77(50M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

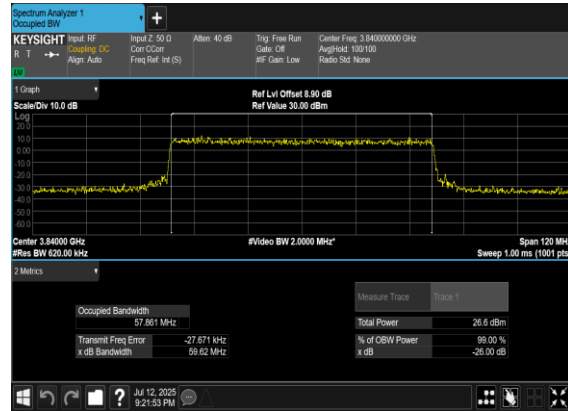




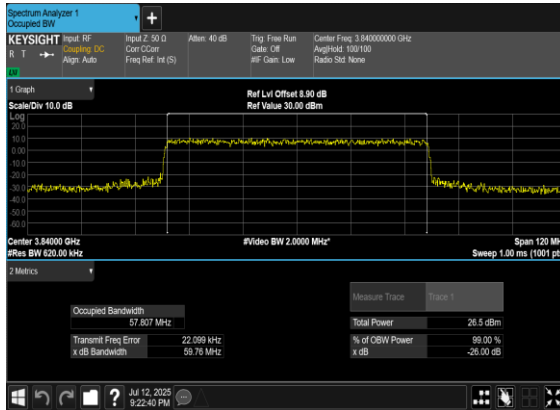
N77(60M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



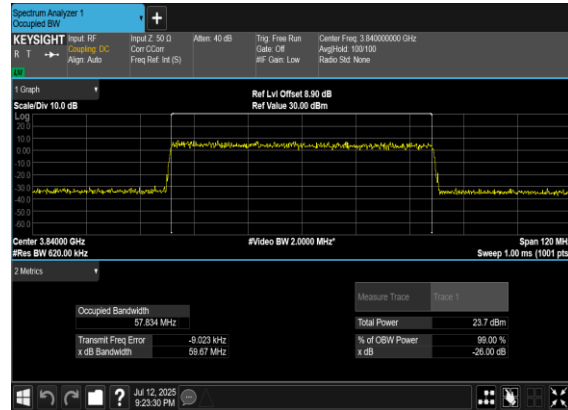
N77(60M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(60M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

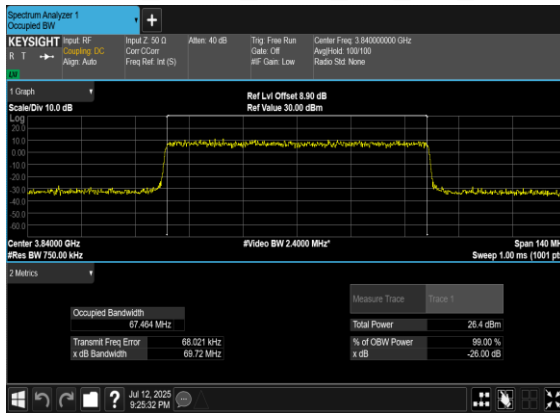


N77(60M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

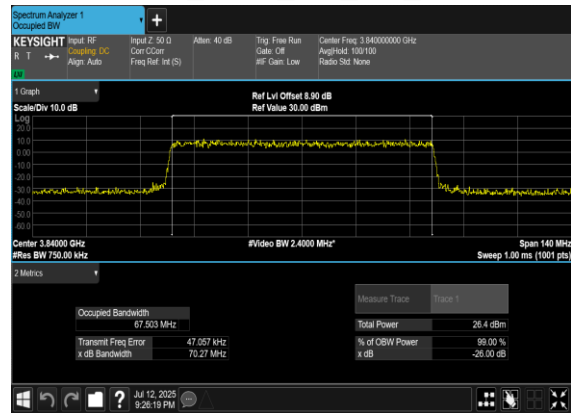




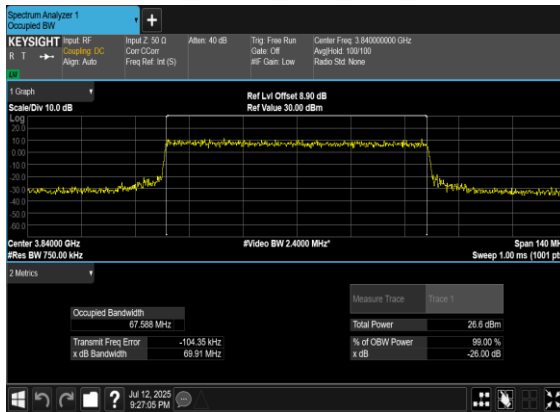
N77(70M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



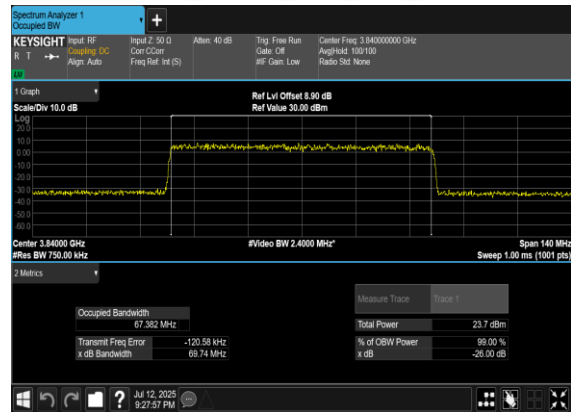
N77(70M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(70M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

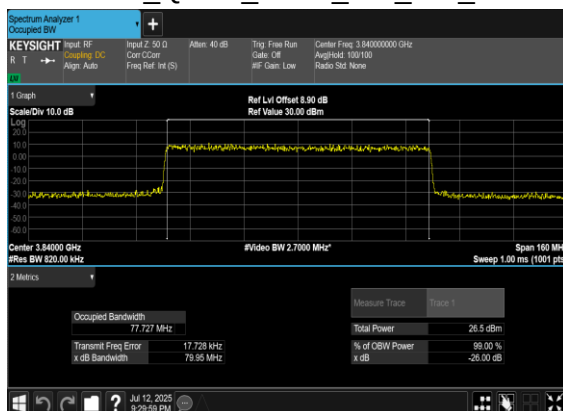


N77(70M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

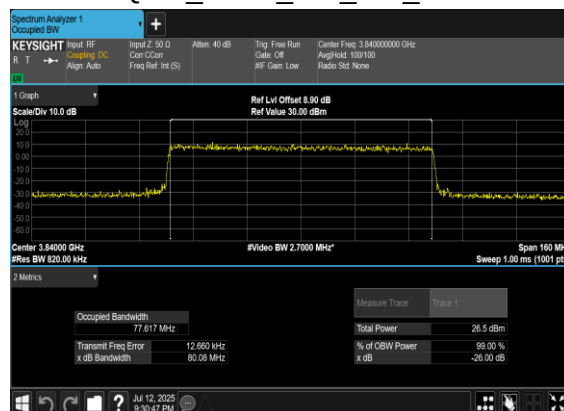




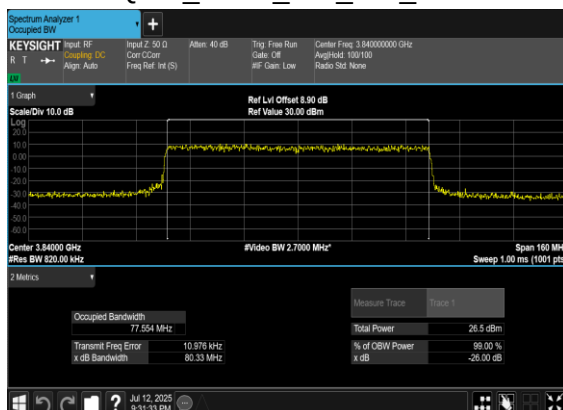
N77(80M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



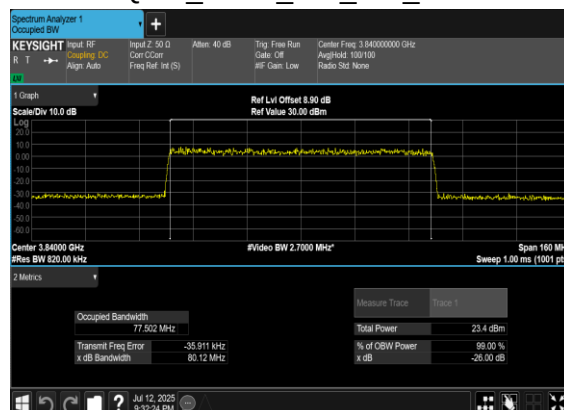
N77(80M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(80M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

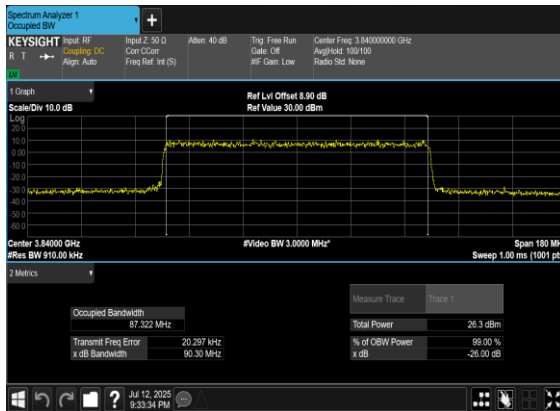


N77(80M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

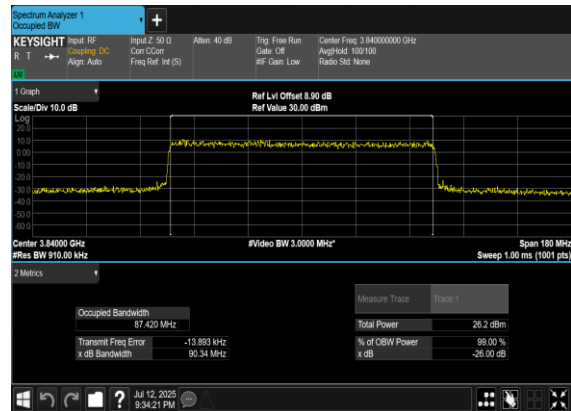




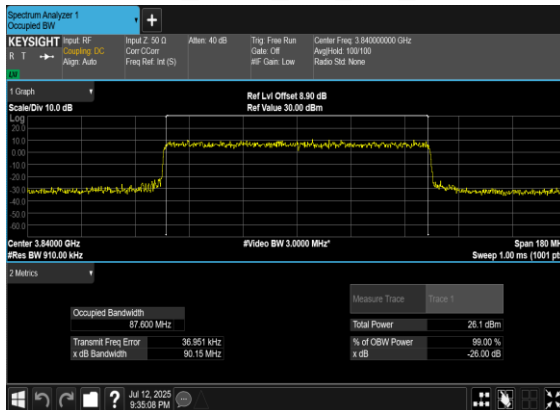
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OFDM_QPSK_Outer_Full_Mid_CH



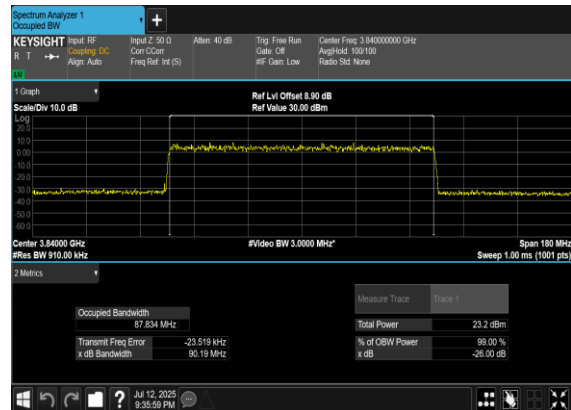
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QAM_Outer_Full_Mid_CH



N77(90M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

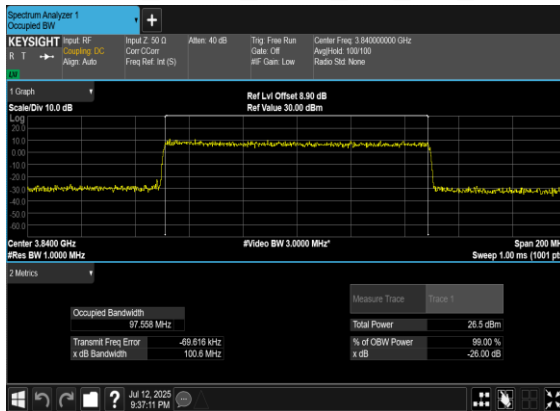


N77(90M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

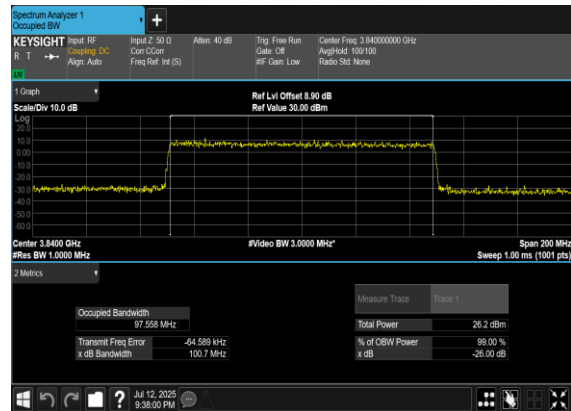




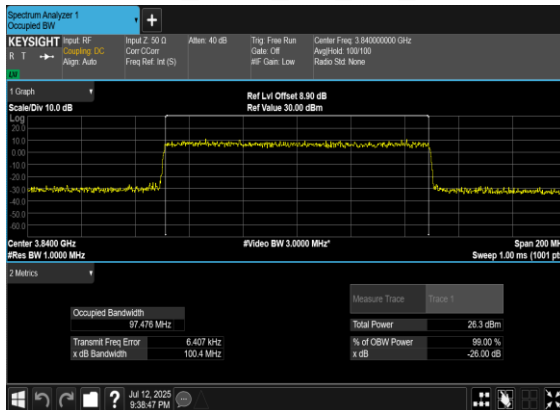
N77(100M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



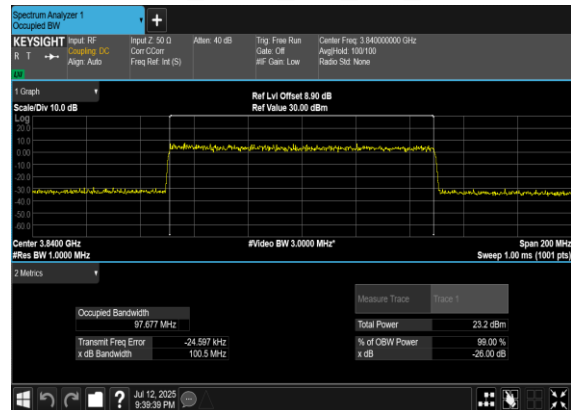
N77(100M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(100M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N77(100M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH





Conducted Spurious Emissions

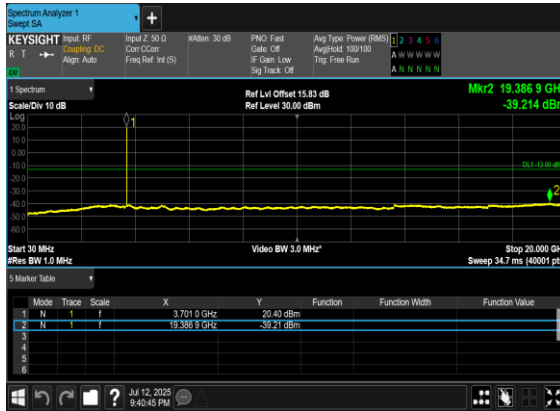
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	10	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	665000	3975.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	10	665000	3975.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	665000	3975.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	665000	3975.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	10	665000	3975.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	665000	3975.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	50	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	50	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	656000	3840.0	DFT-s-OFDM	1@0	see graph	PASS



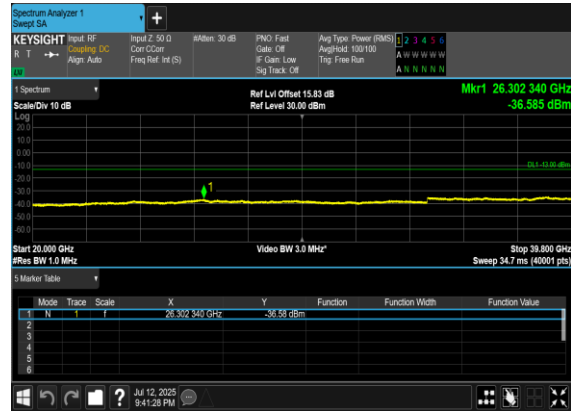
QPSK									
77	30	50	663666	3954.99	DFT-s-OFDM BPSK	1@0	see graph	---	
77	30	50	663666	3954.99	DFT-s-OFDM BPSK	1@0	see graph	PASS	
77	30	50	663666	3954.99	DFT-s-OFDM BPSK	1@0	see graph	PASS	
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@0	see graph	---	
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@0	see graph	PASS	
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@0	see graph	PASS	
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	---	
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS	
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS	
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	---	
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS	
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS	
77	30	100	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	---	
77	30	100	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS	
77	30	100	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS	
77	30	100	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	---	
77	30	100	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS	
77	30	100	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS	
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	1@0	see graph	---	
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	1@0	see graph	PASS	
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	1@0	see graph	PASS	
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	1@0	see graph	---	
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	1@0	see graph	PASS	
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	1@0	see graph	PASS	



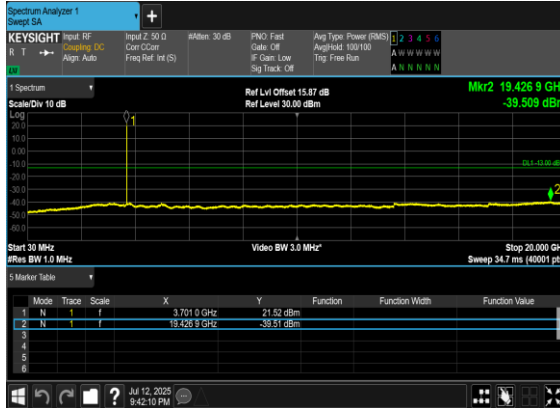
N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



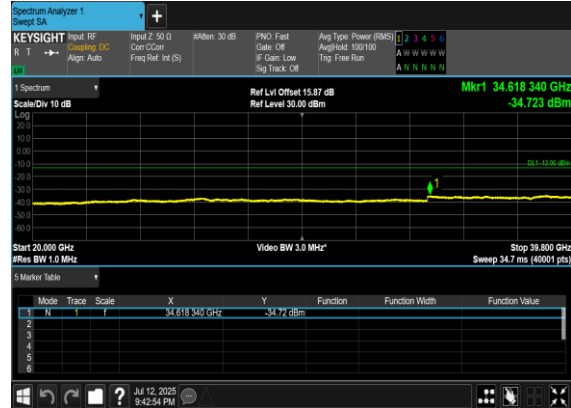
N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

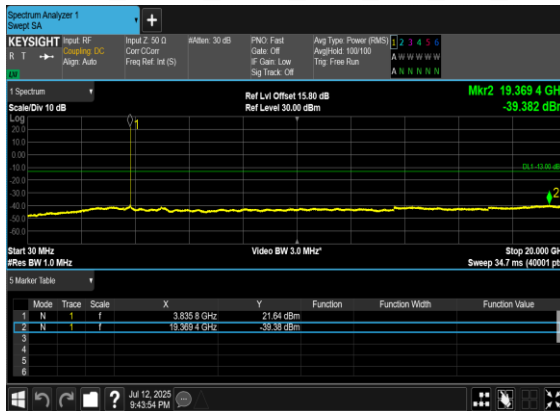


N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

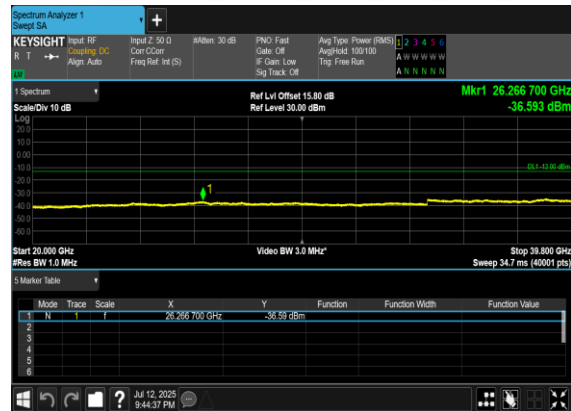




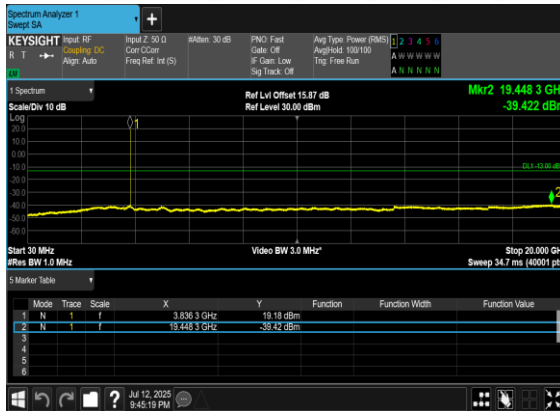
N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



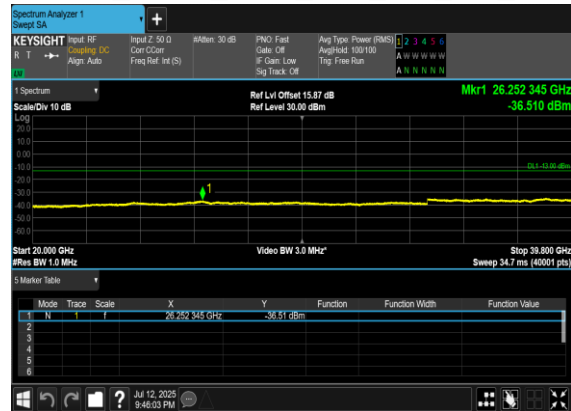
N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

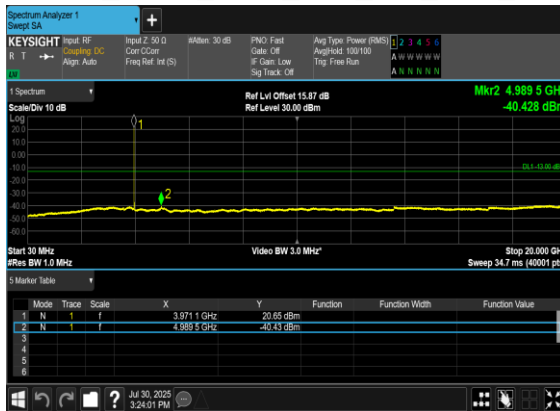


N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

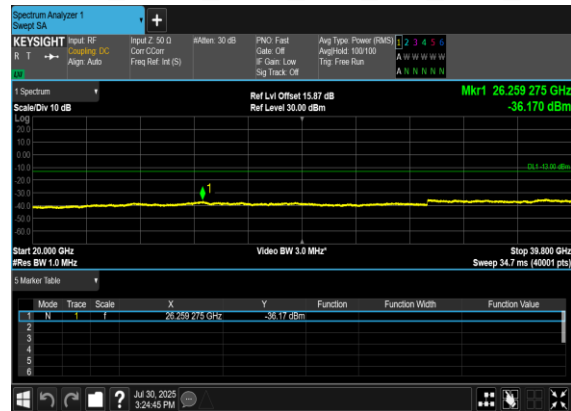




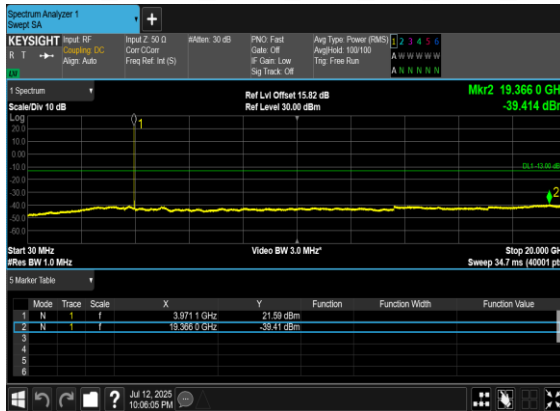
N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



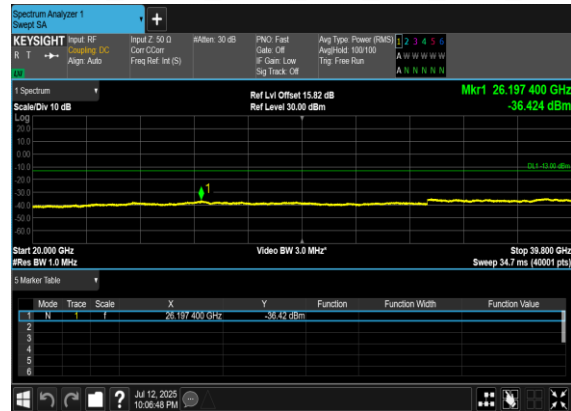
N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

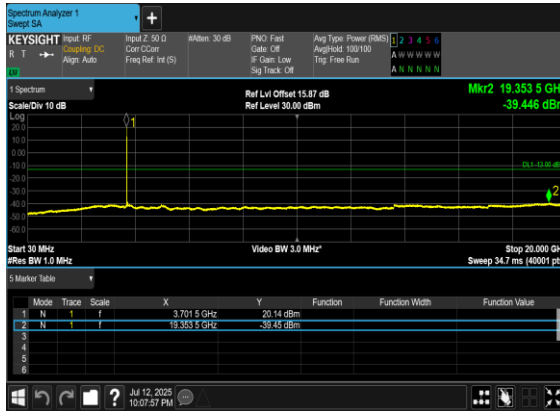


N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

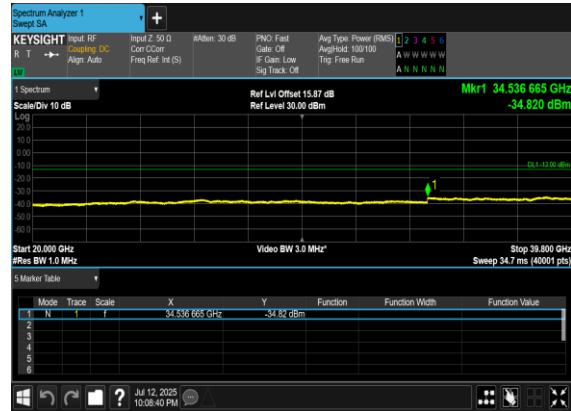




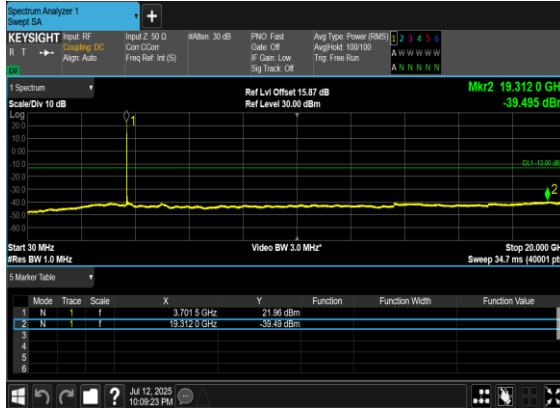
N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



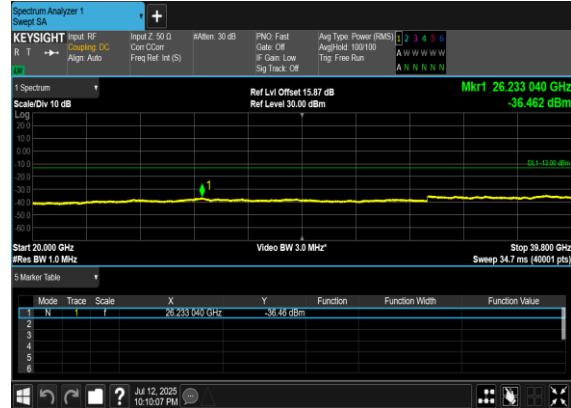
N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

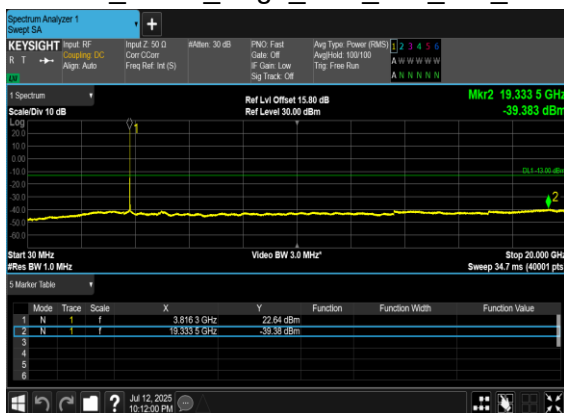


N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

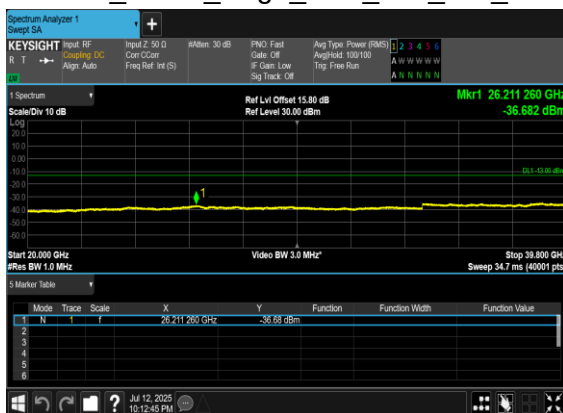




N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

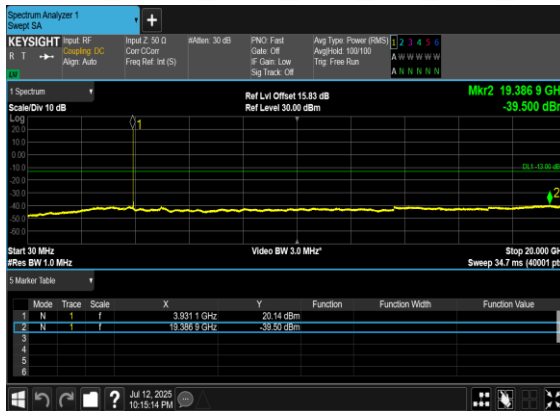


N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

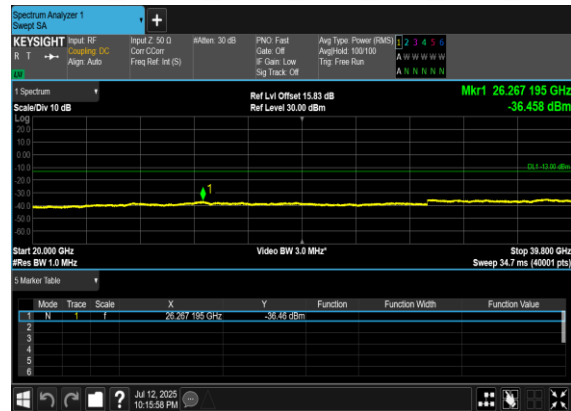




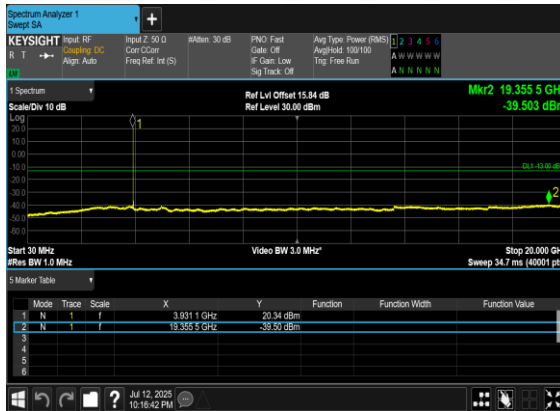
N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



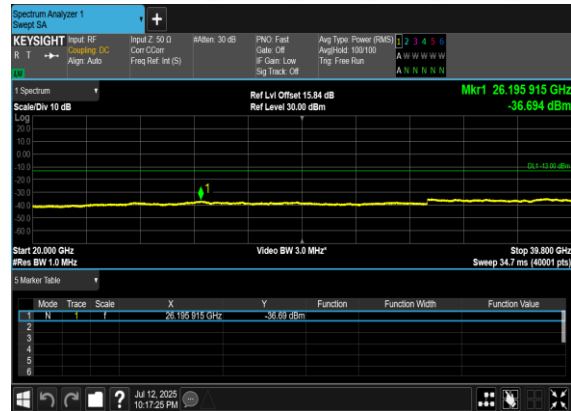
N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

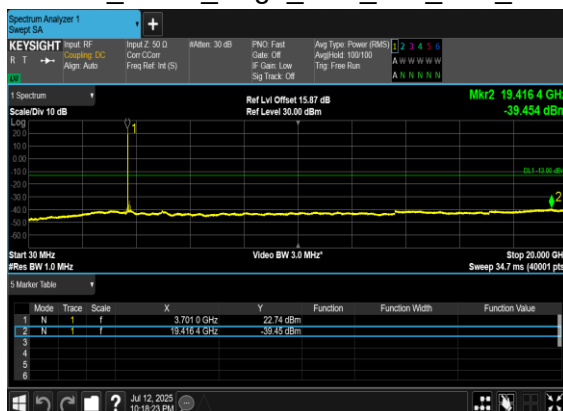


N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH





N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

