



FCC RF Test Report

APPLICANT : ASUSTeK COMPUTER INC.
EQUIPMENT : ASUS Phone(Mobile Phone)
BRAND NAME : ASUS
MODEL NAME : ASUS_AI2201_F, ASUS_AI2201_D
FCC ID : MSQAI2201
STANDARD : 47 CFR Part 2, Part 27 Subpart O
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Apr. 02, 2022 ~ Jun. 17, 2022

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

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

Jason Jia



Approved by: Jason Jia

Sporton International Inc. (ShenZhen)

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People's Republic of China



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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	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	< 43+10log ₁₀ (P[Watts])	PASS	-
3.8	§2.1051 §27.53(l)(2)	Conducted Spurious Emission	< 43+10log ₁₀ (P[Watts])	PASS	-
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	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 31.50 dB at 10104.36 MHz

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



1 General Description

1.1 Applicant

ASUSTeK COMPUTER INC.

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

1.2 Manufacturer

ASUSTeK COMPUTER INC.

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

1.3 Product Feature of Equipment Under Test

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

All the test were performed by SKU 2

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



1.4 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	10MHz / 15MHz / 20MHz / 30MHz / 40MHz / 50MHz / 60MHz / 70MHz / 80MHz / 90MHz / 100MHz
Antenna Gain	<p><Ant. 7> 5G NR n77 : -3.6 dBi 5G NR n78 : -3.6 dBi</p> <p><Ant. 8> 5G NR n77 : -2.1 dBi 5G NR n78 : -2.1 dBi</p> <p><Ant. 9> 5G NR n77 : -2.03 dBi 5G NR n78 : -2.03 dBi</p> <p><Ant. 10> 5G NR n77 : -2.03 dBi 5G NR n78 : -2.03 dBi</p>
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

Remark:

1. The maximum ERP/EIRP is calculated from max output power and max antenna gain, only the maximum ERP/EIRP are shown in the report, 5G NR n77/n78 for Ant. 8 and n77/n78_UL MIMO for Ant.(8+7).
2. 5G NR n77/n78 supports SA and n78 support NSA mode. According to the maximum power, SA covers NSA mode and 5G NR n77 covers 5G NR n78.
3. All the supported EN-DC combinations are verified conducted power, only the EN-DC combination with highest power are shown in the report.
4. 5G NR n77/78 supports UL MIMO mode (the two antennas are completely uncorrelated).
5. The EN-DC mode combination could be referred to the product spec.
6. The device supports HPUE mode for 5G NR n77/78
7. For n77/n78 MIMO mode, the conducted BE/Spurious are tested at single antenna port and add $10 \cdot \log(N_{ANT})$ according to KDB 662911 D01.

1.5 Modification of EUT

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



1.6 Maximum EIRP Power and Emission Designator

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)
10	3705.00 ~ 3975.00	0.2985	8M60G7D	0.2328	8M59W7D
15	3707.52 ~ 3972.48	0.3006	13M6G7D	0.2328	13M6W7D
20	3710.01 ~ 3969.99	0.2606	18M2G7D	0.2018	18M3W7D
30	3715.02 ~ 3964.98	0.2667	27M9G7D	0.2051	27M9W7D
40	3720.00 ~ 3960.00	0.2773	37M8G7D	0.2128	37M9W7D
50	3725.01 ~ 3954.99	0.2541	47M5G7D	0.2018	47M5W7D
60	3730.02 ~ 3949.98	0.2438	58M0G7D	0.1905	57M9W7D
70	3735.00 ~ 3945.00	0.3083	67M5G7D	0.1914	67M6W7D
80	3740.01 ~ 3939.99	0.2489	77M6G7D	0.1986	77M5W7D
90	3745.02 ~ 3934.98	0.2449	87M4G7D	0.1905	87M5W7D
100	3750.00 ~ 3930.00	0.2460	97M5G7D	0.1884	97M6W7D

5G NR n77 UL MIMO		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	0.2538	8M62G7D	0.2242	8M61W7D
15	3707.52 ~ 3972.48	0.2696	13M6G7D	0.2407	13M6W7D
20	3710.01 ~ 3969.99	0.2599	18M2G7D	0.2356	18M3W7D
30	3715.02 ~ 3964.98	0.2637	27M9G7D	0.2341	27M9W7D
40	3720.00 ~ 3960.00	0.2667	37M9G7D	0.2361	37M8W7D
50	3725.01 ~ 3954.99	0.2517	47M5G7D	0.2262	47M5W7D
60	3730.02 ~ 3949.98	0.2517	57M9G7D	0.2263	58M0W7D
70	3735.00 ~ 3945.00	0.2545	67M5G7D	0.2252	67M7W7D
80	3740.01 ~ 3939.99	0.2427	77M6G7D	0.2189	77M7W7D
90	3745.02 ~ 3934.98	0.2431	87M5G7D	0.2178	87M7W7D
100	3750.00 ~ 3930.00	0.2476	97M7G7D	0.2193	97M7W7D



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)
10	3705.00 ~ 3795.00	0.2864	8M60G7D	0.2239	8M59W7D
15	3707.52 ~ 3792.48	0.2858	13M6G7D	0.2223	13M6W7D
20	3710.01 ~ 3789.99	0.2793	18M2G7D	0.2228	18M3W7D
30	3715.02 ~ 3784.98	0.2825	27M9G7D	0.2218	27M9W7D
40	3720.00 ~ 3780.00	0.2858	37M8G7D	0.2228	37M9W7D
50	3725.01 ~ 3774.99	0.2685	47M5G7D	0.2094	47M5W7D
60	3730.02 ~ 3769.98	0.2692	58M0G7D	0.2099	57M9W7D
70	3735.00 ~ 3765.00	0.2838	67M5G7D	0.2028	67M6W7D
80	3740.01 ~ 3759.99	0.2612	77M6G7D	0.2051	77M5W7D
90	3745.02 ~ 3754.98	0.2618	87M4G7D	0.2075	87M5W7D
100	3750.00	0.2594	97M5G7D	0.2032	97M6W7D

5G NR n78 UL MIMO		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	0.2388	8M62G7D	0.2119	8M61W7D
15	3707.52 ~ 3792.48	0.2513	13M6G7D	0.2247	13M6W7D
20	3710.01 ~ 3789.99	0.2469	18M2G7D	0.2255	18M3W7D
30	3715.02 ~ 3784.98	0.2483	27M9G7D	0.2252	27M9W7D
40	3720.00 ~ 3780.00	0.2512	37M9G7D	0.2262	37M8W7D
50	3725.01 ~ 3774.99	0.2393	47M5G7D	0.2160	47M5W7D
60	3730.02 ~ 3769.98	0.2396	57M9G7D	0.2153	58M0W7D
70	3735.00 ~ 3765.00	0.2363	67M5G7D	0.2126	67M7W7D
80	3740.01 ~ 3759.99	0.2344	77M6G7D	0.2070	77M7W7D
90	3745.02 ~ 3754.98	0.2296	87M5G7D	0.2080	87M7W7D
100	3750.00	0.2370	97M7G7D	0.2042	97M7W7D

Note:

1. 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.
2. All modulations have been tested, only the worst test results of PSK & QAM are shown in the report.



1.7 Testing Location

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

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

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

1.8 Test Software

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

1.9 Applicable Standards

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

- 47 CFR Part 2, 270
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

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

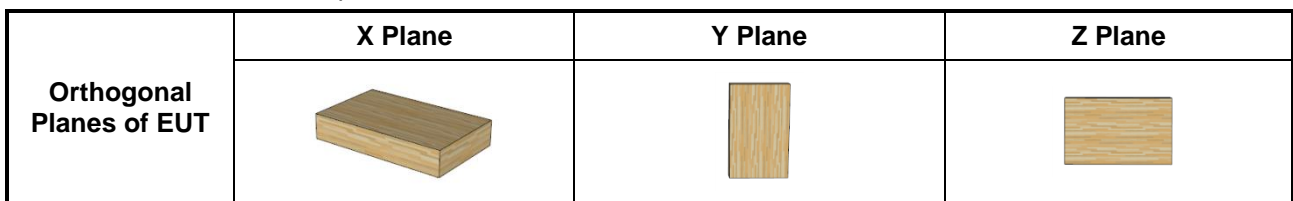
2 Test Configuration of Equipment Under Test

2.1 Test Mode

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

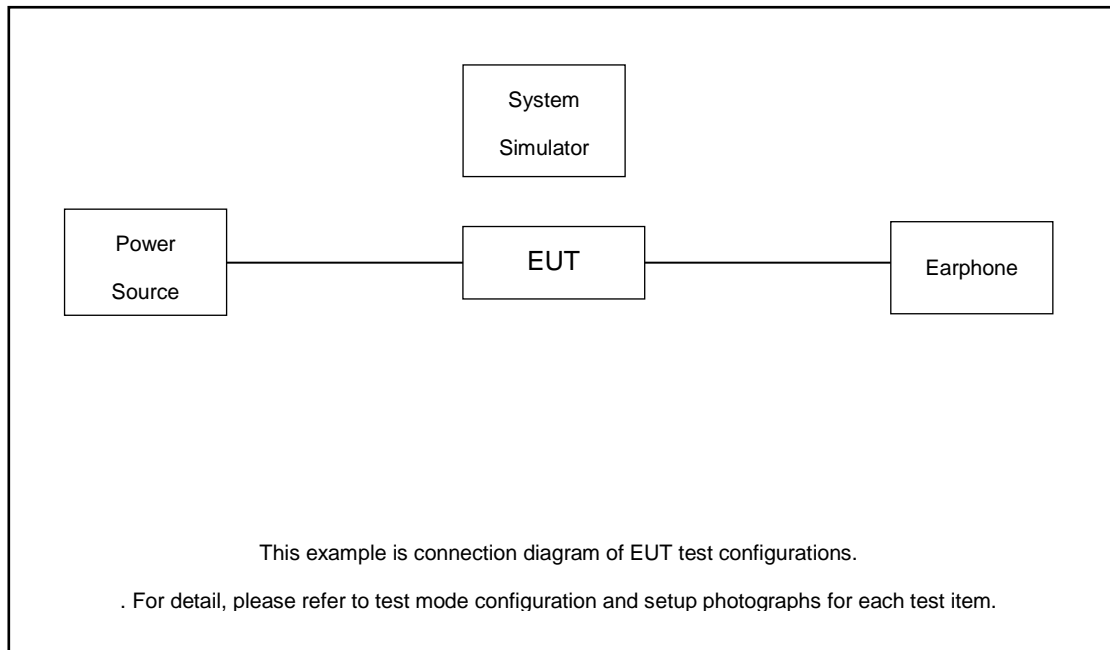
For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases were recorded in this report (X,Y plane).

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.



Test Items	5G NR	Bandwidth (MHz)										Modulation					RB #		Test Channel		
		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	n77	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	
Peak-to-Average Ratio	n77			v							v	v				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		
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.R.P / E.I.R.P	n77	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	
Radiated Spurious Emission	n77	Worst Case																v	v	v	
Note	<ol style="list-style-type: none"> The mark "v" means that this configuration is chosen for testing The mark "-" means that this bandwidth is not supported. 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. Based on engineering evaluation, only the worst modulations test results are shown in the report. Nominal Voltage: 7.78Vdc, Maximum Voltage: 7.3Vdc, Minimum Voltage: 8.7Vdc 																				

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	MT8000A/8821C	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 8.6dB attenuator.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\ &= 8.6 \text{ (dB)} \end{aligned}$$



2.5 Frequency List of Low/Middle/High Channels

5G 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
15	Channel	647168	656000	664832
	Frequency	3707.52	3840	3972.48
10	Channel	647000	656000	665000
	Frequency	3705	3840	3975



5G 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	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
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

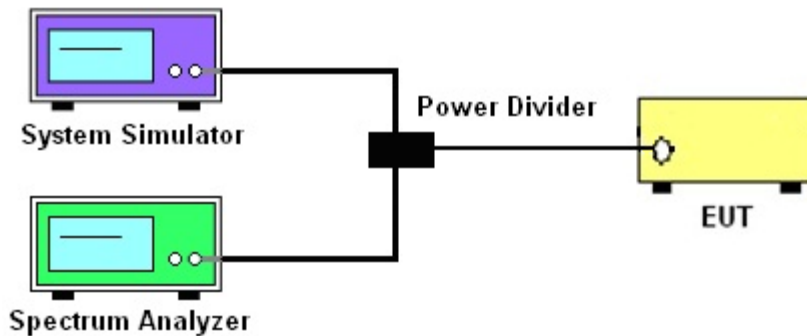
See list of measuring instruments of this test report.

3.2 Test Setup

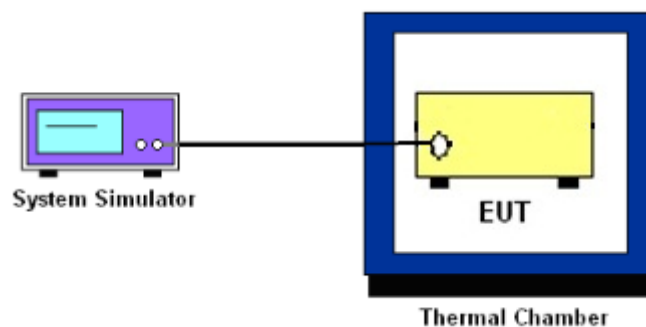
3.2.1 Conducted Output Power



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.
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:

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

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 + 10log(P)] (dB)
= [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
= -13dBm.



3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) 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.

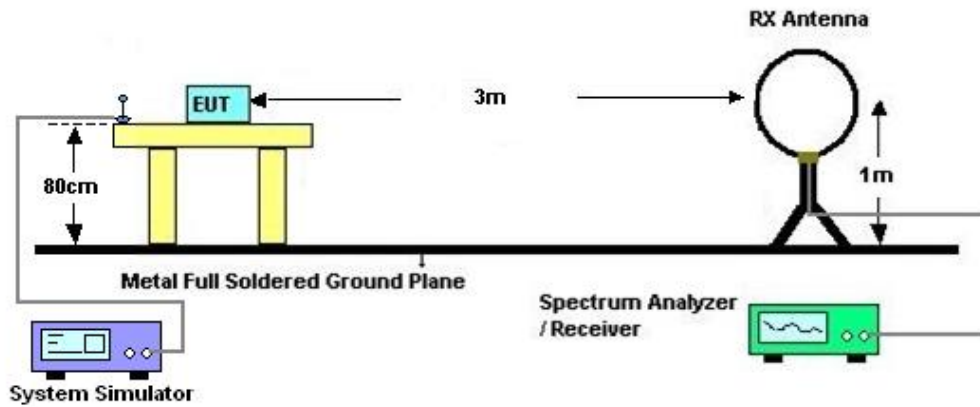
4 Radiated Test Items

4.1 Measuring Instruments

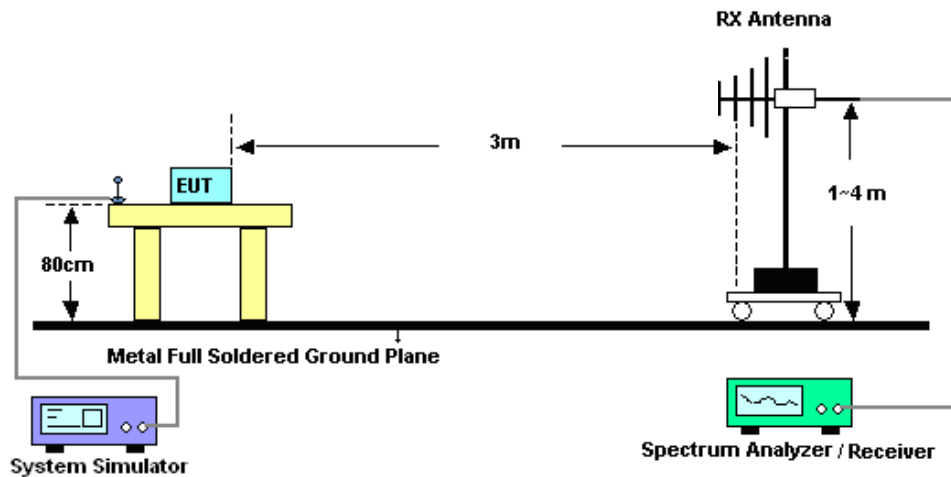
See list of measuring instruments of this test report.

4.2 Test Setup

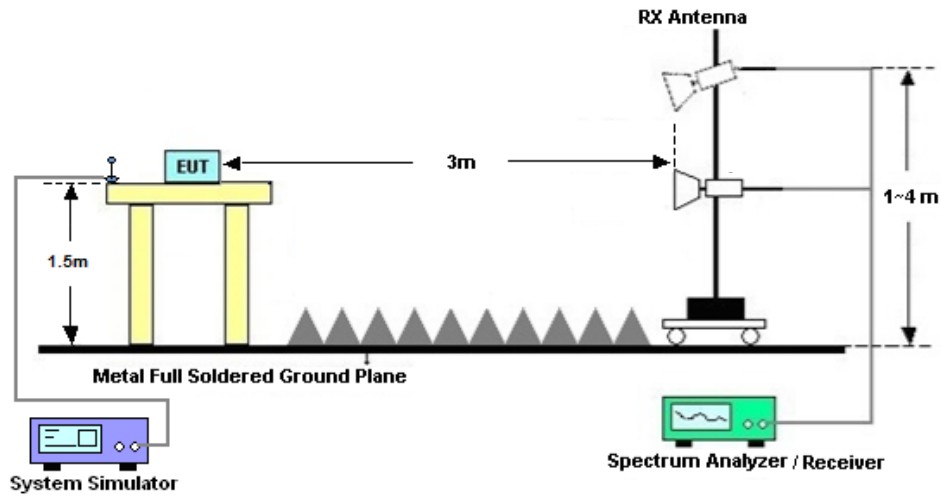
4.2.1 For radiated test below 30MHz



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.

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



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 08, 2021	Apr. 02, 2022~ Jun. 17, 2022	Apr. 07, 2022	Conducted (TH01-SZ)
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 07, 2022		Apr. 06, 2023	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 25, 2021	Apr. 02, 2022~ Jun. 17, 2022	Dec. 24, 2022	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 14, 2021	Apr. 02, 2022~ Jun. 17, 2022	Jul. 13, 2022	Conducted (TH01-SZ)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 22,2021	May 24, 2022	Oct. 21,2022	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 20, 2021	May 24, 2022	Jul. 19, 2022	Radiation (03CH04-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 22, 2020	May 24, 2022	Jun. 21, 2022	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	Oct. 22,2021	May 24, 2022	Oct. 21,2022	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1474	1GHz~18GHz	Jul. 15, 2021	May 24, 2022	Jul. 14, 2022	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	9170#679	15GHz~40GHz	Jul. 25, 2021	May 24, 2022	Jul. 24, 2022	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 22,2021	May 24, 2022	Oct. 21,2022	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P-R	1943528	1GHz~18GHz	Oct. 22,2021	May 24, 2022	Oct. 21,2022	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 20. 2021	May 24, 2022	Jul. 19. 2022	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY53270156	500MHz~26.5GHz	Oct. 22,2021	May 24, 2022	Oct. 21,2022	Radiation (03CH04-SZ)
AC Power Source	Chroma	61601	N/A	N/A	NCR	May 24, 2022	NCR	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	May 24, 2022	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	May 24, 2022	NCR	Radiation (03CH04-SZ)

NCR: No Calibration Required



6 Uncertainty of Evaluation

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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.8 dB
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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))	3.1 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))	3.9 dB
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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 N77 (Ant8_Max Conducted Power)

Transmitter Conducted Output Power And EIRP, (G_T - L_C)= -2.1dBi

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
77	30	10	647000	3705	DFT-s-OFDM PI/2 BPSK	12@6	26.56	24.46	0.2793
77	30	10	647000	3705	DFT-s-OFDM PI/2 BPSK	1@1	26.45	24.35	0.2723
77	30	10	647000	3705	DFT-s-OFDM PI/2 BPSK	1@22	26.47	24.37	0.2735
77	30	10	647000	3705	DFT-s-OFDM QPSK	12@6	26.54	24.44	0.2780
77	30	10	647000	3705	DFT-s-OFDM QPSK	1@1	26.52	24.42	0.2767
77	30	10	647000	3705	DFT-s-OFDM QPSK	1@22	26.5	24.4	0.2754
77	30	10	647000	3705	DFT-s-OFDM 16 QAM	12@6	25.53	23.43	0.2203
77	30	10	647000	3705	DFT-s-OFDM 16 QAM	1@1	25.29	23.19	0.2084
77	30	10	647000	3705	DFT-s-OFDM 16 QAM	1@22	25.25	23.15	0.2065
77	30	10	647000	3705	DFT-s-OFDM 64 QAM	12@6	23.94	21.84	0.1528
77	30	10	647000	3705	DFT-s-OFDM 64 QAM	1@1	23.92	21.82	0.1521
77	30	10	647000	3705	DFT-s-OFDM 64 QAM	1@22	23.87	21.77	0.1503
77	30	10	647000	3705	DFT-s-OFDM 256 QAM	12@6	21.99	19.89	0.0975
77	30	10	647000	3705	DFT-s-OFDM 256 QAM	1@1	21.97	19.87	0.0971
77	30	10	647000	3705	DFT-s-OFDM 256 QAM	1@22	21.71	19.61	0.0914
77	30	10	647000	3705	CP-OFDM QPSK	12@6	25.07	22.97	0.1982
77	30	10	647000	3705	CP-OFDM QPSK	1@1	25.12	23.02	0.2004
77	30	10	647000	3705	CP-OFDM QPSK	1@22	24.91	22.81	0.1910
77	30	10	656000	3840	DFT-s-OFDM PI/2 BPSK	12@6	26.55	24.45	0.2786
77	30	10	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	26.48	24.38	0.2742
77	30	10	656000	3840	DFT-s-OFDM PI/2 BPSK	1@22	26.39	24.29	0.2685

77	30	10	656000	3840	DFT-s-OFDM QPSK	12@6	26.53	24.43	0.2773
77	30	10	656000	3840	DFT-s-OFDM QPSK	1@1	26.48	24.38	0.2742
77	30	10	656000	3840	DFT-s-OFDM QPSK	1@22	26.43	24.33	0.2710
77	30	10	656000	3840	DFT-s-OFDM 16 QAM	12@6	25.53	23.43	0.2203
77	30	10	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.46	23.36	0.2168
77	30	10	656000	3840	DFT-s-OFDM 16 QAM	1@22	25.32	23.22	0.2099
77	30	10	656000	3840	DFT-s-OFDM 64 QAM	12@6	23.97	21.87	0.1538
77	30	10	656000	3840	DFT-s-OFDM 64 QAM	1@1	23.82	21.72	0.1486
77	30	10	656000	3840	DFT-s-OFDM 64 QAM	1@22	23.77	21.67	0.1469
77	30	10	656000	3840	DFT-s-OFDM 256 QAM	12@6	21.95	19.85	0.0966
77	30	10	656000	3840	DFT-s-OFDM 256 QAM	1@1	21.92	19.82	0.0959
77	30	10	656000	3840	DFT-s-OFDM 256 QAM	1@22	21.86	19.76	0.0946
77	30	10	656000	3840	CP-OFDM QPSK	12@6	25.04	22.94	0.1968
77	30	10	656000	3840	CP-OFDM QPSK	1@1	25.1	23	0.1995
77	30	10	656000	3840	CP-OFDM QPSK	1@22	24.92	22.82	0.1914
77	30	10	665000	3975	DFT-s-OFDM PI/2 BPSK	12@6	26.85	24.75	0.2985
77	30	10	665000	3975	DFT-s-OFDM PI/2 BPSK	1@1	26.74	24.64	0.2911
77	30	10	665000	3975	DFT-s-OFDM PI/2 BPSK	1@22	26.78	24.68	0.2938
77	30	10	665000	3975	DFT-s-OFDM QPSK	12@6	26.8	24.7	0.2951
77	30	10	665000	3975	DFT-s-OFDM QPSK	1@1	26.74	24.64	0.2911
77	30	10	665000	3975	DFT-s-OFDM QPSK	1@22	26.81	24.71	0.2958
77	30	10	665000	3975	DFT-s-OFDM 16 QAM	12@6	25.77	23.67	0.2328
77	30	10	665000	3975	DFT-s-OFDM 16 QAM	1@1	25.52	23.42	0.2198
77	30	10	665000	3975	DFT-s-OFDM 16 QAM	1@22	25.64	23.54	0.2259
77	30	10	665000	3975	DFT-s-OFDM 64 QAM	12@6	24.29	22.19	0.1656

77	30	10	665000	3975	DFT-s-OFDM 64 QAM	1@1	24.25	22.15	0.1641
77	30	10	665000	3975	DFT-s-OFDM 64 QAM	1@22	24.28	22.18	0.1652
77	30	10	665000	3975	DFT-s-OFDM 256 QAM	12@6	22.2	20.1	0.1023
77	30	10	665000	3975	DFT-s-OFDM 256 QAM	1@1	22.05	19.95	0.0989
77	30	10	665000	3975	DFT-s-OFDM 256 QAM	1@22	22.05	19.95	0.0989
77	30	10	665000	3975	CP-OFDM QPSK	12@6	25.29	23.19	0.2084
77	30	10	665000	3975	CP-OFDM QPSK	1@1	25.39	23.29	0.2133
77	30	10	665000	3975	CP-OFDM QPSK	1@22	25.16	23.06	0.2023
77	30	15	647168	3707.52	DFT-s-OFDM PI/2 BPSK	18@9	26.78	24.68	0.2938
77	30	15	647168	3707.52	DFT-s-OFDM PI/2 BPSK	1@1	26.75	24.65	0.2917
77	30	15	647168	3707.52	DFT-s-OFDM PI/2 BPSK	1@36	26.68	24.58	0.2871
77	30	15	647168	3707.52	DFT-s-OFDM QPSK	18@9	26.75	24.65	0.2917
77	30	15	647168	3707.52	DFT-s-OFDM QPSK	1@1	26.82	24.72	0.2965
77	30	15	647168	3707.52	DFT-s-OFDM QPSK	1@36	26.76	24.66	0.2924
77	30	15	647168	3707.52	DFT-s-OFDM 16 QAM	18@9	25.66	23.56	0.2270
77	30	15	647168	3707.52	DFT-s-OFDM 16 QAM	1@1	25.66	23.56	0.2270
77	30	15	647168	3707.52	DFT-s-OFDM 16 QAM	1@36	25.62	23.52	0.2249
77	30	15	647168	3707.52	DFT-s-OFDM 64 QAM	18@9	24.24	22.14	0.1637
77	30	15	647168	3707.52	DFT-s-OFDM 64 QAM	1@1	24.32	22.22	0.1667
77	30	15	647168	3707.52	DFT-s-OFDM 64 QAM	1@36	24.22	22.12	0.1629
77	30	15	647168	3707.52	DFT-s-OFDM 256 QAM	18@9	22.16	20.06	0.1014
77	30	15	647168	3707.52	DFT-s-OFDM 256 QAM	1@1	22.01	19.91	0.0979
77	30	15	647168	3707.52	DFT-s-OFDM 256 QAM	1@36	22.1	20	0.1000
77	30	15	647168	3707.52	CP-OFDM QPSK	19@9	25.21	23.11	0.2046
77	30	15	647168	3707.52	CP-OFDM QPSK	1@1	25.35	23.25	0.2113
77	30	15	647168	3707.52	CP-OFDM QPSK	1@36	25.03	22.93	0.1963

77	30	15	656000	3840	DFT-s-OFDM PI/2 BPSK	18@9	26.79	24.69	0.2944
77	30	15	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	26.61	24.51	0.2825
77	30	15	656000	3840	DFT-s-OFDM PI/2 BPSK	1@36	26.68	24.58	0.2871
77	30	15	656000	3840	DFT-s-OFDM QPSK	18@9	26.75	24.65	0.2917
77	30	15	656000	3840	DFT-s-OFDM QPSK	1@1	26.78	24.68	0.2938
77	30	15	656000	3840	DFT-s-OFDM QPSK	1@36	26.71	24.61	0.2891
77	30	15	656000	3840	DFT-s-OFDM 16 QAM	18@9	25.7	23.6	0.2291
77	30	15	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.66	23.56	0.2270
77	30	15	656000	3840	DFT-s-OFDM 16 QAM	1@36	25.54	23.44	0.2208
77	30	15	656000	3840	DFT-s-OFDM 64 QAM	18@9	24.24	22.14	0.1637
77	30	15	656000	3840	DFT-s-OFDM 64 QAM	1@1	24.14	22.04	0.1600
77	30	15	656000	3840	DFT-s-OFDM 64 QAM	1@36	24.08	21.98	0.1578
77	30	15	656000	3840	DFT-s-OFDM 256 QAM	18@9	22.17	20.07	0.1016
77	30	15	656000	3840	DFT-s-OFDM 256 QAM	1@1	22.08	19.98	0.0995
77	30	15	656000	3840	DFT-s-OFDM 256 QAM	1@36	21.99	19.89	0.0975
77	30	15	656000	3840	CP-OFDM QPSK	19@9	25.23	23.13	0.2056
77	30	15	656000	3840	CP-OFDM QPSK	1@1	25.34	23.24	0.2109
77	30	15	656000	3840	CP-OFDM QPSK	1@36	25.14	23.04	0.2014
77	30	15	664832	3972.48	DFT-s-OFDM PI/2 BPSK	18@9	26.81	24.71	0.2958
77	30	15	664832	3972.48	DFT-s-OFDM PI/2 BPSK	1@1	26.75	24.65	0.2917
77	30	15	664832	3972.48	DFT-s-OFDM PI/2 BPSK	1@36	26.82	24.72	0.2965
77	30	15	664832	3972.48	DFT-s-OFDM QPSK	18@9	26.79	24.69	0.2944
77	30	15	664832	3972.48	DFT-s-OFDM QPSK	1@1	26.78	24.68	0.2938
77	30	15	664832	3972.48	DFT-s-OFDM QPSK	1@36	26.88	24.78	0.3006
77	30	15	664832	3972.48	DFT-s-OFDM 16 QAM	18@9	25.71	23.61	0.2296

77	30	15	664832	3972.48	DFT-s-OFDM 16 QAM	1@1	25.69	23.59	0.2286
77	30	15	664832	3972.48	DFT-s-OFDM 16 QAM	1@36	25.77	23.67	0.2328
77	30	15	664832	3972.48	DFT-s-OFDM 64 QAM	18@9	24.25	22.15	0.1641
77	30	15	664832	3972.48	DFT-s-OFDM 64 QAM	1@1	24.09	21.99	0.1581
77	30	15	664832	3972.48	DFT-s-OFDM 64 QAM	1@36	24.19	22.09	0.1618
77	30	15	664832	3972.48	DFT-s-OFDM 256 QAM	18@9	22.22	20.12	0.1028
77	30	15	664832	3972.48	DFT-s-OFDM 256 QAM	1@1	22.02	19.92	0.0982
77	30	15	664832	3972.48	DFT-s-OFDM 256 QAM	1@36	22.35	20.25	0.1059
77	30	15	664832	3972.48	CP-OFDM QPSK	19@9	25.22	23.12	0.2051
77	30	15	664832	3972.48	CP-OFDM QPSK	1@1	25.14	23.04	0.2014
77	30	15	664832	3972.48	CP-OFDM QPSK	1@36	25.29	23.19	0.2084
77	30	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	25@12	25.84	23.74	0.2366
77	30	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	1@1	25.79	23.69	0.2339
77	30	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	1@49	25.76	23.66	0.2323
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	25@12	25.77	23.67	0.2328
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@1	25.8	23.7	0.2344
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@49	25.72	23.62	0.2301
77	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	25@12	24.8	22.7	0.1862
77	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@1	24.71	22.61	0.1824
77	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@49	24.59	22.49	0.1774
77	30	20	647334	3710.01	DFT-s-OFDM 64 QAM	25@12	23.36	21.26	0.1337
77	30	20	647334	3710.01	DFT-s-OFDM 64 QAM	1@1	23.19	21.09	0.1285
77	30	20	647334	3710.01	DFT-s-OFDM 64 QAM	1@49	23.16	21.06	0.1276
77	30	20	647334	3710.01	DFT-s-OFDM 256 QAM	25@12	21.23	19.13	0.0818
77	30	20	647334	3710.01	DFT-s-OFDM 256 QAM	1@1	21.17	19.07	0.0807

77	30	20	647334	3710.01	DFT-s-OFDM 256 QAM	1@49	21.17	19.07	0.0807
77	30	20	647334	3710.01	CP-OFDM QPSK	25@12	24.35	22.25	0.1679
77	30	20	647334	3710.01	CP-OFDM QPSK	1@1	24.46	22.36	0.1722
77	30	20	647334	3710.01	CP-OFDM QPSK	1@49	24.36	22.26	0.1683
77	30	20	656000	3840	DFT-s-OFDM PI/2 BPSK	25@12	25.73	23.63	0.2307
77	30	20	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.62	23.52	0.2249
77	30	20	656000	3840	DFT-s-OFDM PI/2 BPSK	1@49	25.58	23.48	0.2228
77	30	20	656000	3840	DFT-s-OFDM QPSK	25@12	25.72	23.62	0.2301
77	30	20	656000	3840	DFT-s-OFDM QPSK	1@1	25.71	23.61	0.2296
77	30	20	656000	3840	DFT-s-OFDM QPSK	1@49	25.66	23.56	0.2270
77	30	20	656000	3840	DFT-s-OFDM 16 QAM	25@12	24.73	22.63	0.1832
77	30	20	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.57	22.47	0.1766
77	30	20	656000	3840	DFT-s-OFDM 16 QAM	1@49	24.57	22.47	0.1766
77	30	20	656000	3840	DFT-s-OFDM 64 QAM	25@12	23.27	21.17	0.1309
77	30	20	656000	3840	DFT-s-OFDM 64 QAM	1@1	22.88	20.78	0.1197
77	30	20	656000	3840	DFT-s-OFDM 64 QAM	1@49	23.06	20.96	0.1247
77	30	20	656000	3840	DFT-s-OFDM 256 QAM	25@12	21.16	19.06	0.0805
77	30	20	656000	3840	DFT-s-OFDM 256 QAM	1@1	21.12	19.02	0.0798
77	30	20	656000	3840	DFT-s-OFDM 256 QAM	1@49	21.07	18.97	0.0789
77	30	20	656000	3840	CP-OFDM QPSK	25@12	24.26	22.16	0.1644
77	30	20	656000	3840	CP-OFDM QPSK	1@1	24.11	22.01	0.1589
77	30	20	656000	3840	CP-OFDM QPSK	1@49	24.11	22.01	0.1589
77	30	20	664666	3969.99	DFT-s-OFDM PI/2 BPSK	25@12	26.23	24.13	0.2588
77	30	20	664666	3969.99	DFT-s-OFDM PI/2 BPSK	1@1	26.08	23.98	0.2500
77	30	20	664666	3969.99	DFT-s-OFDM PI/2 BPSK	1@49	26.21	24.11	0.2576
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	25@12	26.09	23.99	0.2506

77	30	20	664666	3969.99	DFT-s-OFDM QPSK	1@1	26.14	24.04	0.2535
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	1@49	26.26	24.16	0.2606
77	30	20	664666	3969.99	DFT-s-OFDM 16 QAM	25@12	25.15	23.05	0.2018
77	30	20	664666	3969.99	DFT-s-OFDM 16 QAM	1@1	24.92	22.82	0.1914
77	30	20	664666	3969.99	DFT-s-OFDM 16 QAM	1@49	25.13	23.03	0.2009
77	30	20	664666	3969.99	DFT-s-OFDM 64 QAM	25@12	23.76	21.66	0.1466
77	30	20	664666	3969.99	DFT-s-OFDM 64 QAM	1@1	23.55	21.45	0.1396
77	30	20	664666	3969.99	DFT-s-OFDM 64 QAM	1@49	23.6	21.5	0.1413
77	30	20	664666	3969.99	DFT-s-OFDM 256 QAM	25@12	21.63	19.53	0.0897
77	30	20	664666	3969.99	DFT-s-OFDM 256 QAM	1@1	21.53	19.43	0.0877
77	30	20	664666	3969.99	DFT-s-OFDM 256 QAM	1@49	21.63	19.53	0.0897
77	30	20	664666	3969.99	CP-OFDM QPSK	25@12	24.78	22.68	0.1854
77	30	20	664666	3969.99	CP-OFDM QPSK	1@1	24.7	22.6	0.1820
77	30	20	664666	3969.99	CP-OFDM QPSK	1@49	24.8	22.7	0.1862
77	30	30	647668	3715.02	DFT-s-OFDM PI/2 BPSK	36@18	25.92	23.82	0.2410
77	30	30	647668	3715.02	DFT-s-OFDM PI/2 BPSK	1@1	25.9	23.8	0.2399
77	30	30	647668	3715.02	DFT-s-OFDM PI/2 BPSK	1@76	25.84	23.74	0.2366
77	30	30	647668	3715.02	DFT-s-OFDM QPSK	36@18	25.92	23.82	0.2410
77	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@1	25.96	23.86	0.2432
77	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@76	25.86	23.76	0.2377
77	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	36@18	24.98	22.88	0.1941
77	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	1@1	24.89	22.79	0.1901
77	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	1@76	24.73	22.63	0.1832
77	30	30	647668	3715.02	DFT-s-OFDM 64 QAM	36@18	23.39	21.29	0.1346
77	30	30	647668	3715.02	DFT-s-OFDM 64 QAM	1@1	23.3	21.2	0.1318

77	30	30	647668	3715.02	DFT-s-OFDM 64 QAM	1@76	23.13	21.03	0.1268
77	30	30	647668	3715.02	DFT-s-OFDM 256 QAM	36@18	21.38	19.28	0.0847
77	30	30	647668	3715.02	DFT-s-OFDM 256 QAM	1@1	21.27	19.17	0.0826
77	30	30	647668	3715.02	DFT-s-OFDM 256 QAM	1@76	21.13	19.03	0.0800
77	30	30	647668	3715.02	CP-OFDM QPSK	39@19	24.69	22.59	0.1816
77	30	30	647668	3715.02	CP-OFDM QPSK	1@1	24.53	22.43	0.1750
77	30	30	647668	3715.02	CP-OFDM QPSK	1@76	24.17	22.07	0.1611
77	30	30	656000	3840	DFT-s-OFDM PI/2 BPSK	36@18	25.81	23.71	0.2350
77	30	30	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.76	23.66	0.2323
77	30	30	656000	3840	DFT-s-OFDM PI/2 BPSK	1@76	25.67	23.57	0.2275
77	30	30	656000	3840	DFT-s-OFDM QPSK	36@18	25.79	23.69	0.2339
77	30	30	656000	3840	DFT-s-OFDM QPSK	1@1	25.87	23.77	0.2382
77	30	30	656000	3840	DFT-s-OFDM QPSK	1@76	25.7	23.6	0.2291
77	30	30	656000	3840	DFT-s-OFDM 16 QAM	36@18	24.81	22.71	0.1866
77	30	30	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.72	22.62	0.1828
77	30	30	656000	3840	DFT-s-OFDM 16 QAM	1@76	24.55	22.45	0.1758
77	30	30	656000	3840	DFT-s-OFDM 64 QAM	36@18	23.28	21.18	0.1312
77	30	30	656000	3840	DFT-s-OFDM 64 QAM	1@1	23.37	21.27	0.1340
77	30	30	656000	3840	DFT-s-OFDM 64 QAM	1@76	23.27	21.17	0.1309
77	30	30	656000	3840	DFT-s-OFDM 256 QAM	36@18	21.22	19.12	0.0817
77	30	30	656000	3840	DFT-s-OFDM 256 QAM	1@1	21.14	19.04	0.0802
77	30	30	656000	3840	DFT-s-OFDM 256 QAM	1@76	20.99	18.89	0.0774
77	30	30	656000	3840	CP-OFDM QPSK	39@19	24.26	22.16	0.1644
77	30	30	656000	3840	CP-OFDM QPSK	1@1	24.42	22.32	0.1706
77	30	30	656000	3840	CP-OFDM QPSK	1@76	24.01	21.91	0.1552
77	30	30	664332	3964.98	DFT-s-OFDM PI/2 BPSK	36@18	26.22	24.12	0.2582

77	30	30	664332	3964.98	DFT-s-OFDM PI/2 BPSK	1@1	26.28	24.18	0.2618
77	30	30	664332	3964.98	DFT-s-OFDM PI/2 BPSK	1@76	26.16	24.06	0.2547
77	30	30	664332	3964.98	DFT-s-OFDM QPSK	36@18	26.17	24.07	0.2553
77	30	30	664332	3964.98	DFT-s-OFDM QPSK	1@1	26.36	24.26	0.2667
77	30	30	664332	3964.98	DFT-s-OFDM QPSK	1@76	26.25	24.15	0.2600
77	30	30	664332	3964.98	DFT-s-OFDM 16 QAM	36@18	25.22	23.12	0.2051
77	30	30	664332	3964.98	DFT-s-OFDM 16 QAM	1@1	25.15	23.05	0.2018
77	30	30	664332	3964.98	DFT-s-OFDM 16 QAM	1@76	25.11	23.01	0.2000
77	30	30	664332	3964.98	DFT-s-OFDM 64 QAM	36@18	23.68	21.58	0.1439
77	30	30	664332	3964.98	DFT-s-OFDM 64 QAM	1@1	23.74	21.64	0.1459
77	30	30	664332	3964.98	DFT-s-OFDM 64 QAM	1@76	23.77	21.67	0.1469
77	30	30	664332	3964.98	DFT-s-OFDM 256 QAM	36@18	21.69	19.59	0.0910
77	30	30	664332	3964.98	DFT-s-OFDM 256 QAM	1@1	21.68	19.58	0.0908
77	30	30	664332	3964.98	DFT-s-OFDM 256 QAM	1@76	21.47	19.37	0.0865
77	30	30	664332	3964.98	CP-OFDM QPSK	39@19	24.66	22.56	0.1803
77	30	30	664332	3964.98	CP-OFDM QPSK	1@1	24.82	22.72	0.1871
77	30	30	664332	3964.98	CP-OFDM QPSK	1@76	24.59	22.49	0.1774
77	30	40	648000	3720	DFT-s-OFDM PI/2 BPSK	50@25	26.02	23.92	0.2466
77	30	40	648000	3720	DFT-s-OFDM PI/2 BPSK	1@1	26.15	24.05	0.2541
77	30	40	648000	3720	DFT-s-OFDM PI/2 BPSK	1@104	25.8	23.7	0.2344
77	30	40	648000	3720	DFT-s-OFDM QPSK	50@25	25.98	23.88	0.2443
77	30	40	648000	3720	DFT-s-OFDM QPSK	1@1	26.21	24.11	0.2576
77	30	40	648000	3720	DFT-s-OFDM QPSK	1@104	25.9	23.8	0.2399
77	30	40	648000	3720	DFT-s-OFDM 16 QAM	50@25	24.96	22.86	0.1932
77	30	40	648000	3720	DFT-s-OFDM 16 QAM	1@1	25.1	23	0.1995

77	30	40	648000	3720	DFT-s-OFDM 16 QAM	1@104	24.72	22.62	0.1828
77	30	40	648000	3720	DFT-s-OFDM 64 QAM	50@25	23.53	21.43	0.1390
77	30	40	648000	3720	DFT-s-OFDM 64 QAM	1@1	23.77	21.67	0.1469
77	30	40	648000	3720	DFT-s-OFDM 64 QAM	1@104	23.39	21.29	0.1346
77	30	40	648000	3720	DFT-s-OFDM 256 QAM	50@25	21.44	19.34	0.0859
77	30	40	648000	3720	DFT-s-OFDM 256 QAM	1@1	21.65	19.55	0.0902
77	30	40	648000	3720	DFT-s-OFDM 256 QAM	1@104	21.3	19.2	0.0832
77	30	40	648000	3720	CP-OFDM QPSK	53@26	24.49	22.39	0.1734
77	30	40	648000	3720	CP-OFDM QPSK	1@1	24.66	22.56	0.1803
77	30	40	648000	3720	CP-OFDM QPSK	1@104	24.38	22.28	0.1690
77	30	40	656000	3840	DFT-s-OFDM PI/2 BPSK	50@25	25.94	23.84	0.2421
77	30	40	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.98	23.88	0.2443
77	30	40	656000	3840	DFT-s-OFDM PI/2 BPSK	1@104	25.71	23.61	0.2296
77	30	40	656000	3840	DFT-s-OFDM QPSK	50@25	25.86	23.76	0.2377
77	30	40	656000	3840	DFT-s-OFDM QPSK	1@1	26.02	23.92	0.2466
77	30	40	656000	3840	DFT-s-OFDM QPSK	1@104	25.8	23.7	0.2344
77	30	40	656000	3840	DFT-s-OFDM 16 QAM	50@25	24.85	22.75	0.1884
77	30	40	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.86	22.76	0.1888
77	30	40	656000	3840	DFT-s-OFDM 16 QAM	1@104	24.67	22.57	0.1807
77	30	40	656000	3840	DFT-s-OFDM 64 QAM	50@25	23.42	21.32	0.1355
77	30	40	656000	3840	DFT-s-OFDM 64 QAM	1@1	23.37	21.27	0.1340
77	30	40	656000	3840	DFT-s-OFDM 64 QAM	1@104	23.12	21.02	0.1265
77	30	40	656000	3840	DFT-s-OFDM 256 QAM	50@25	21.37	19.27	0.0845
77	30	40	656000	3840	DFT-s-OFDM 256 QAM	1@1	21.47	19.37	0.0865
77	30	40	656000	3840	DFT-s-OFDM 256 QAM	1@104	21.01	18.91	0.0778

77	30	40	656000	3840	CP-OFDM QPSK	53@26	24.41	22.31	0.1702
77	30	40	656000	3840	CP-OFDM QPSK	1@1	24.49	22.39	0.1734
77	30	40	656000	3840	CP-OFDM QPSK	1@104	24.28	22.18	0.1652
77	30	40	664000	3960	DFT-s- OFDM PI/2 BPSK	50@25	26.45	24.35	0.2723
77	30	40	664000	3960	DFT-s- OFDM PI/2 BPSK	1@1	26.46	24.36	0.2729
77	30	40	664000	3960	DFT-s- OFDM PI/2 BPSK	1@104	26.46	24.36	0.2729
77	30	40	664000	3960	DFT-s- OFDM QPSK	50@25	26.37	24.27	0.2673
77	30	40	664000	3960	DFT-s- OFDM QPSK	1@1	26.43	24.33	0.2710
77	30	40	664000	3960	DFT-s- OFDM QPSK	1@104	26.53	24.43	0.2773
77	30	40	664000	3960	DFT-s- OFDM 16 QAM	50@25	25.36	23.26	0.2118
77	30	40	664000	3960	DFT-s- OFDM 16 QAM	1@1	25.19	23.09	0.2037
77	30	40	664000	3960	DFT-s- OFDM 16 QAM	1@104	25.38	23.28	0.2128
77	30	40	664000	3960	DFT-s- OFDM 64 QAM	50@25	23.94	21.84	0.1528
77	30	40	664000	3960	DFT-s- OFDM 64 QAM	1@1	23.81	21.71	0.1483
77	30	40	664000	3960	DFT-s- OFDM 64 QAM	1@104	23.86	21.76	0.1500
77	30	40	664000	3960	DFT-s- OFDM 256 QAM	50@25	21.89	19.79	0.0953
77	30	40	664000	3960	DFT-s- OFDM 256 QAM	1@1	21.71	19.61	0.0914
77	30	40	664000	3960	DFT-s- OFDM 256 QAM	1@104	21.71	19.61	0.0914
77	30	40	664000	3960	CP-OFDM QPSK	53@26	24.89	22.79	0.1901
77	30	40	664000	3960	CP-OFDM QPSK	1@1	24.98	22.88	0.1941
77	30	40	664000	3960	CP-OFDM QPSK	1@104	25	22.9	0.1950
77	30	50	648334	3725.01	DFT-s- OFDM PI/2 BPSK	64@32	25.89	23.79	0.2393
77	30	50	648334	3725.01	DFT-s- OFDM PI/2 BPSK	1@1	25.98	23.88	0.2443
77	30	50	648334	3725.01	DFT-s- OFDM PI/2 BPSK	1@131	25.54	23.44	0.2208
77	30	50	648334	3725.01	DFT-s- OFDM QPSK	64@32	25.85	23.75	0.2371
77	30	50	648334	3725.01	DFT-s- OFDM QPSK	1@1	26.05	23.95	0.2483

77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@131	25.56	23.46	0.2218
77	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	64@32	24.84	22.74	0.1879
77	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@1	24.86	22.76	0.1888
77	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@131	24.37	22.27	0.1687
77	30	50	648334	3725.01	DFT-s-OFDM 64 QAM	64@32	23.42	21.32	0.1355
77	30	50	648334	3725.01	DFT-s-OFDM 64 QAM	1@1	23.39	21.29	0.1346
77	30	50	648334	3725.01	DFT-s-OFDM 64 QAM	1@131	22.97	20.87	0.1222
77	30	50	648334	3725.01	DFT-s-OFDM 256 QAM	64@32	21.3	19.2	0.0832
77	30	50	648334	3725.01	DFT-s-OFDM 256 QAM	1@1	21.42	19.32	0.0855
77	30	50	648334	3725.01	DFT-s-OFDM 256 QAM	1@131	20.94	18.84	0.0766
77	30	50	648334	3725.01	CP-OFDM QPSK	67@33	24.36	22.26	0.1683
77	30	50	648334	3725.01	CP-OFDM QPSK	1@1	24.64	22.54	0.1795
77	30	50	648334	3725.01	CP-OFDM QPSK	1@131	24.14	22.04	0.1600
77	30	50	656000	3840	DFT-s-OFDM PI/2 BPSK	64@32	25.78	23.68	0.2333
77	30	50	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.77	23.67	0.2328
77	30	50	656000	3840	DFT-s-OFDM PI/2 BPSK	1@131	25.66	23.56	0.2270
77	30	50	656000	3840	DFT-s-OFDM QPSK	64@32	25.73	23.63	0.2307
77	30	50	656000	3840	DFT-s-OFDM QPSK	1@1	25.78	23.68	0.2333
77	30	50	656000	3840	DFT-s-OFDM QPSK	1@131	25.69	23.59	0.2286
77	30	50	656000	3840	DFT-s-OFDM 16 QAM	64@32	24.73	22.63	0.1832
77	30	50	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.69	22.59	0.1816
77	30	50	656000	3840	DFT-s-OFDM 16 QAM	1@131	24.62	22.52	0.1786
77	30	50	656000	3840	DFT-s-OFDM 64 QAM	64@32	23.29	21.19	0.1315
77	30	50	656000	3840	DFT-s-OFDM 64 QAM	1@1	23.11	21.01	0.1262
77	30	50	656000	3840	DFT-s-OFDM 64 QAM	1@131	23.02	20.92	0.1236

77	30	50	656000	3840	DFT-s-OFDM 256 QAM	64@32	21.22	19.12	0.0817
77	30	50	656000	3840	DFT-s-OFDM 256 QAM	1@1	21.19	19.09	0.0811
77	30	50	656000	3840	DFT-s-OFDM 256 QAM	1@131	21.16	19.06	0.0805
77	30	50	656000	3840	CP-OFDM QPSK	67@33	24.27	22.17	0.1648
77	30	50	656000	3840	CP-OFDM QPSK	1@1	24.23	22.13	0.1633
77	30	50	656000	3840	CP-OFDM QPSK	1@131	24.24	22.14	0.1637
77	30	50	663666	3954.99	DFT-s-OFDM PI/2 BPSK	64@32	26.15	24.05	0.2541
77	30	50	663666	3954.99	DFT-s-OFDM PI/2 BPSK	1@1	26.04	23.94	0.2477
77	30	50	663666	3954.99	DFT-s-OFDM PI/2 BPSK	1@131	26.07	23.97	0.2495
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	64@32	26.13	24.03	0.2529
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@1	26.05	23.95	0.2483
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@131	26.12	24.02	0.2523
77	30	50	663666	3954.99	DFT-s-OFDM 16 QAM	64@32	25.15	23.05	0.2018
77	30	50	663666	3954.99	DFT-s-OFDM 16 QAM	1@1	24.93	22.83	0.1919
77	30	50	663666	3954.99	DFT-s-OFDM 16 QAM	1@131	24.92	22.82	0.1914
77	30	50	663666	3954.99	DFT-s-OFDM 64 QAM	64@32	23.63	21.53	0.1422
77	30	50	663666	3954.99	DFT-s-OFDM 64 QAM	1@1	23.46	21.36	0.1368
77	30	50	663666	3954.99	DFT-s-OFDM 64 QAM	1@131	23.54	21.44	0.1393
77	30	50	663666	3954.99	DFT-s-OFDM 256 QAM	64@32	21.59	19.49	0.0889
77	30	50	663666	3954.99	DFT-s-OFDM 256 QAM	1@1	21.47	19.37	0.0865
77	30	50	663666	3954.99	DFT-s-OFDM 256 QAM	1@131	21.56	19.46	0.0883
77	30	50	663666	3954.99	CP-OFDM QPSK	67@33	24.64	22.54	0.1795
77	30	50	663666	3954.99	CP-OFDM QPSK	1@1	24.64	22.54	0.1795
77	30	50	663666	3954.99	CP-OFDM QPSK	1@131	24.72	22.62	0.1828
77	30	60	648668	3730.02	DFT-s-OFDM PI/2 BPSK	81@40	25.85	23.75	0.2371
77	30	60	648668	3730.02	DFT-s-OFDM PI/2 BPSK	1@1	25.94	23.84	0.2421

77	30	60	648668	3730.02	DFT-s-OFDM PI/2 BPSK	1@160	25.62	23.52	0.2249
77	30	60	648668	3730.02	DFT-s-OFDM QPSK	81@40	25.85	23.75	0.2371
77	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@1	25.97	23.87	0.2438
77	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@160	25.61	23.51	0.2244
77	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	81@40	24.83	22.73	0.1875
77	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	1@1	24.87	22.77	0.1892
77	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	1@160	24.55	22.45	0.1758
77	30	60	648668	3730.02	DFT-s-OFDM 64 QAM	81@40	23.33	21.23	0.1327
77	30	60	648668	3730.02	DFT-s-OFDM 64 QAM	1@1	23.36	21.26	0.1337
77	30	60	648668	3730.02	DFT-s-OFDM 64 QAM	1@160	22.89	20.79	0.1199
77	30	60	648668	3730.02	DFT-s-OFDM 256 QAM	81@40	21.32	19.22	0.0836
77	30	60	648668	3730.02	DFT-s-OFDM 256 QAM	1@1	21.3	19.2	0.0832
77	30	60	648668	3730.02	DFT-s-OFDM 256 QAM	1@160	20.97	18.87	0.0771
77	30	60	648668	3730.02	CP-OFDM QPSK	81@40	24.33	22.23	0.1671
77	30	60	648668	3730.02	CP-OFDM QPSK	1@1	24.35	22.25	0.1679
77	30	60	648668	3730.02	CP-OFDM QPSK	1@160	24.07	21.97	0.1574
77	30	60	656000	3840	DFT-s-OFDM PI/2 BPSK	81@40	25.76	23.66	0.2323
77	30	60	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.78	23.68	0.2333
77	30	60	656000	3840	DFT-s-OFDM PI/2 BPSK	1@160	25.63	23.53	0.2254
77	30	60	656000	3840	DFT-s-OFDM QPSK	81@40	25.77	23.67	0.2328
77	30	60	656000	3840	DFT-s-OFDM QPSK	1@1	25.8	23.7	0.2344
77	30	60	656000	3840	DFT-s-OFDM QPSK	1@160	25.65	23.55	0.2265
77	30	60	656000	3840	DFT-s-OFDM 16 QAM	81@40	24.73	22.63	0.1832
77	30	60	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.68	22.58	0.1811
77	30	60	656000	3840	DFT-s-OFDM 16 QAM	1@160	24.59	22.49	0.1774

77	30	60	656000	3840	DFT-s-OFDM 64 QAM	81@40	23.24	21.14	0.1300
77	30	60	656000	3840	DFT-s-OFDM 64 QAM	1@1	23.15	21.05	0.1274
77	30	60	656000	3840	DFT-s-OFDM 64 QAM	1@160	23.11	21.01	0.1262
77	30	60	656000	3840	DFT-s-OFDM 256 QAM	81@40	21.31	19.21	0.0834
77	30	60	656000	3840	DFT-s-OFDM 256 QAM	1@1	21.17	19.07	0.0807
77	30	60	656000	3840	DFT-s-OFDM 256 QAM	1@160	21.09	18.99	0.0793
77	30	60	656000	3840	CP-OFDM QPSK	81@40	24.27	22.17	0.1648
77	30	60	656000	3840	CP-OFDM QPSK	1@1	24.14	22.04	0.1600
77	30	60	656000	3840	CP-OFDM QPSK	1@160	24.11	22.01	0.1589
77	30	60	663332	3949.98	DFT-s-OFDM PI/2 BPSK	81@40	25.86	23.76	0.2377
77	30	60	663332	3949.98	DFT-s-OFDM PI/2 BPSK	1@1	25.71	23.61	0.2296
77	30	60	663332	3949.98	DFT-s-OFDM PI/2 BPSK	1@160	25.8	23.7	0.2344
77	30	60	663332	3949.98	DFT-s-OFDM QPSK	81@40	23.24	21.14	0.1300
77	30	60	663332	3949.98	DFT-s-OFDM QPSK	1@1	25.7	23.6	0.2291
77	30	60	663332	3949.98	DFT-s-OFDM QPSK	1@160	25.89	23.79	0.2393
77	30	60	663332	3949.98	DFT-s-OFDM 16 QAM	81@40	24.9	22.8	0.1905
77	30	60	663332	3949.98	DFT-s-OFDM 16 QAM	1@1	24.69	22.59	0.1816
77	30	60	663332	3949.98	DFT-s-OFDM 16 QAM	1@160	24.89	22.79	0.1901
77	30	60	663332	3949.98	DFT-s-OFDM 64 QAM	81@40	23.36	21.26	0.1337
77	30	60	663332	3949.98	DFT-s-OFDM 64 QAM	1@1	23.1	21	0.1259
77	30	60	663332	3949.98	DFT-s-OFDM 64 QAM	1@160	23.18	21.08	0.1282
77	30	60	663332	3949.98	DFT-s-OFDM 256 QAM	81@40	21.41	19.31	0.0853
77	30	60	663332	3949.98	DFT-s-OFDM 256 QAM	1@1	21.14	19.04	0.0802
77	30	60	663332	3949.98	DFT-s-OFDM 256 QAM	1@160	21.43	19.33	0.0857
77	30	60	663332	3949.98	CP-OFDM QPSK	81@40	24.37	22.27	0.1687

77	30	60	663332	3949.98	CP-OFDM QPSK	1@1	24.25	22.15	0.1641
77	30	60	663332	3949.98	CP-OFDM QPSK	1@160	24.31	22.21	0.1663
77	30	70	649000	3735	DFT-s- OFDM PI/2 BPSK	90@45	26.52	24.42	0.2767
77	30	70	649000	3735	DFT-s- OFDM PI/2 BPSK	1@1	25.97	23.87	0.2438
77	30	70	649000	3735	DFT-s- OFDM PI/2 BPSK	1@187	25.55	23.45	0.2213
77	30	70	649000	3735	DFT-s- OFDM QPSK	90@45	24.89	22.79	0.1901
77	30	70	649000	3735	DFT-s- OFDM QPSK	1@1	25.96	23.86	0.2432
77	30	70	649000	3735	DFT-s- OFDM QPSK	1@187	25.61	23.51	0.2244
77	30	70	649000	3735	DFT-s- OFDM 16 QAM	90@45	23.02	20.92	0.1236
77	30	70	649000	3735	DFT-s- OFDM 16 QAM	1@1	24.92	22.82	0.1914
77	30	70	649000	3735	DFT-s- OFDM 16 QAM	1@187	24.51	22.41	0.1742
77	30	70	649000	3735	DFT-s- OFDM 64 QAM	90@45	22.38	20.28	0.1067
77	30	70	649000	3735	DFT-s- OFDM 64 QAM	1@1	23.29	21.19	0.1315
77	30	70	649000	3735	DFT-s- OFDM 64 QAM	1@187	22.86	20.76	0.1191
77	30	70	649000	3735	DFT-s- OFDM 256 QAM	90@45	21.22	19.12	0.0817
77	30	70	649000	3735	DFT-s- OFDM 256 QAM	1@1	21.39	19.29	0.0849
77	30	70	649000	3735	DFT-s- OFDM 256 QAM	1@187	20.92	18.82	0.0762
77	30	70	649000	3735	CP-OFDM QPSK	95@47	24.27	22.17	0.1648
77	30	70	649000	3735	CP-OFDM QPSK	1@1	24.46	22.36	0.1722
77	30	70	649000	3735	CP-OFDM QPSK	1@187	24.15	22.05	0.1603
77	30	70	656000	3840	DFT-s- OFDM PI/2 BPSK	90@45	25.84	23.74	0.2366
77	30	70	656000	3840	DFT-s- OFDM PI/2 BPSK	1@1	25.71	23.61	0.2296
77	30	70	656000	3840	DFT-s- OFDM PI/2 BPSK	1@187	25.41	23.31	0.2143
77	30	70	656000	3840	DFT-s- OFDM QPSK	90@45	26.95	24.85	0.3055
77	30	70	656000	3840	DFT-s- OFDM QPSK	1@1	25.62	23.52	0.2249
77	30	70	656000	3840	DFT-s- OFDM	1@187	25.47	23.37	0.2173

QPSK									
77	30	70	656000	3840	DFT-s-OFDM 16 QAM	90@45	23.26	21.16	0.1306
77	30	70	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.66	22.56	0.1803
77	30	70	656000	3840	DFT-s-OFDM 16 QAM	1@187	24.38	22.28	0.1690
77	30	70	656000	3840	DFT-s-OFDM 64 QAM	90@45	22.03	19.93	0.0984
77	30	70	656000	3840	DFT-s-OFDM 64 QAM	1@1	23.11	21.01	0.1262
77	30	70	656000	3840	DFT-s-OFDM 64 QAM	1@187	22.78	20.68	0.1169
77	30	70	656000	3840	DFT-s-OFDM 256 QAM	90@45	20.96	18.86	0.0769
77	30	70	656000	3840	DFT-s-OFDM 256 QAM	1@1	21.12	19.02	0.0798
77	30	70	656000	3840	DFT-s-OFDM 256 QAM	1@187	20.79	18.69	0.0740
77	30	70	656000	3840	CP-OFDM QPSK	95@47	24.15	22.05	0.1603
77	30	70	656000	3840	CP-OFDM QPSK	1@1	24.25	22.15	0.1641
77	30	70	656000	3840	CP-OFDM QPSK	1@187	23.92	21.82	0.1521
77	30	70	663000	3945	DFT-s-OFDM PI/2 BPSK	90@45	26.62	24.52	0.2831
77	30	70	663000	3945	DFT-s-OFDM PI/2 BPSK	1@1	25.77	23.67	0.2328
77	30	70	663000	3945	DFT-s-OFDM PI/2 BPSK	1@187	22.45	20.35	0.1084
77	30	70	663000	3945	DFT-s-OFDM QPSK	90@45	26.99	24.89	0.3083
77	30	70	663000	3945	DFT-s-OFDM QPSK	1@1	25.73	23.63	0.2307
77	30	70	663000	3945	DFT-s-OFDM QPSK	1@187	25.95	23.85	0.2427
77	30	70	663000	3945	DFT-s-OFDM 16 QAM	90@45	22.46	20.36	0.1086
77	30	70	663000	3945	DFT-s-OFDM 16 QAM	1@1	24.71	22.61	0.1824
77	30	70	663000	3945	DFT-s-OFDM 16 QAM	1@187	24.8	22.7	0.1862
77	30	70	663000	3945	DFT-s-OFDM 64 QAM	90@45	22.46	20.36	0.1086
77	30	70	663000	3945	DFT-s-OFDM 64 QAM	1@1	23.17	21.07	0.1279
77	30	70	663000	3945	DFT-s-OFDM 64 QAM	1@187	23.36	21.26	0.1337
77	30	70	663000	3945	DFT-s-	90@45	21.46	19.36	0.0863

					OFDM 256 QAM					
77	30	70	663000	3945	DFT-s- OFDM 256 QAM	1@1	21.19	19.09	0.0811	
77	30	70	663000	3945	DFT-s- OFDM 256 QAM	1@187	21.32	19.22	0.0836	
77	30	70	663000	3945	CP-OFDM QPSK	95@47	24.47	22.37	0.1726	
77	30	70	663000	3945	CP-OFDM QPSK	1@1	24.15	22.05	0.1603	
77	30	70	663000	3945	CP-OFDM QPSK	1@187	24.46	22.36	0.1722	
77	30	80	649334	3740.01	DFT-s- OFDM PI/2 BPSK	108@54	25.89	23.79	0.2393	
77	30	80	649334	3740.01	DFT-s- OFDM PI/2 BPSK	1@1	25.96	23.86	0.2432	
77	30	80	649334	3740.01	DFT-s- OFDM PI/2 BPSK	1@215	25.64	23.54	0.2259	
77	30	80	649334	3740.01	DFT-s- OFDM QPSK	108@54	25.83	23.73	0.2360	
77	30	80	649334	3740.01	DFT-s- OFDM QPSK	1@1	25.93	23.83	0.2415	
77	30	80	649334	3740.01	DFT-s- OFDM QPSK	1@215	25.64	23.54	0.2259	
77	30	80	649334	3740.01	DFT-s- OFDM 16 QAM	108@54	24.81	22.71	0.1866	
77	30	80	649334	3740.01	DFT-s- OFDM 16 QAM	1@1	24.85	22.75	0.1884	
77	30	80	649334	3740.01	DFT-s- OFDM 16 QAM	1@215	24.46	22.36	0.1722	
77	30	80	649334	3740.01	DFT-s- OFDM 64 QAM	108@54	23.35	21.25	0.1334	
77	30	80	649334	3740.01	DFT-s- OFDM 64 QAM	1@1	23.35	21.25	0.1334	
77	30	80	649334	3740.01	DFT-s- OFDM 64 QAM	1@215	23.02	20.92	0.1236	
77	30	80	649334	3740.01	DFT-s- OFDM 256 QAM	108@54	21.28	19.18	0.0828	
77	30	80	649334	3740.01	DFT-s- OFDM 256 QAM	1@1	21.31	19.21	0.0834	
77	30	80	649334	3740.01	DFT-s- OFDM 256 QAM	1@215	20.91	18.81	0.0760	
77	30	80	649334	3740.01	CP-OFDM QPSK	109@54	24.29	22.19	0.1656	
77	30	80	649334	3740.01	CP-OFDM QPSK	1@1	24.56	22.46	0.1762	
77	30	80	649334	3740.01	CP-OFDM QPSK	1@215	24.13	22.03	0.1596	
77	30	80	656000	3840	DFT-s- OFDM PI/2 BPSK	108@54	25.69	23.59	0.2286	
77	30	80	656000	3840	DFT-s- OFDM PI/2 BPSK	1@1	25.71	23.61	0.2296	

77	30	80	656000	3840	DFT-s-OFDM PI/2 BPSK	1@215	25.41	23.31	0.2143
77	30	80	656000	3840	DFT-s-OFDM QPSK	108@54	25.67	23.57	0.2275
77	30	80	656000	3840	DFT-s-OFDM QPSK	1@1	25.7	23.6	0.2291
77	30	80	656000	3840	DFT-s-OFDM QPSK	1@215	25.45	23.35	0.2163
77	30	80	656000	3840	DFT-s-OFDM 16 QAM	108@54	24.74	22.64	0.1837
77	30	80	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.75	22.65	0.1841
77	30	80	656000	3840	DFT-s-OFDM 16 QAM	1@215	24.37	22.27	0.1687
77	30	80	656000	3840	DFT-s-OFDM 64 QAM	108@54	23.13	21.03	0.1268
77	30	80	656000	3840	DFT-s-OFDM 64 QAM	1@1	22.93	20.83	0.1211
77	30	80	656000	3840	DFT-s-OFDM 64 QAM	1@215	22.81	20.71	0.1178
77	30	80	656000	3840	DFT-s-OFDM 256 QAM	108@54	21.17	19.07	0.0807
77	30	80	656000	3840	DFT-s-OFDM 256 QAM	1@1	21.05	18.95	0.0785
77	30	80	656000	3840	DFT-s-OFDM 256 QAM	1@215	20.77	18.67	0.0736
77	30	80	656000	3840	CP-OFDM QPSK	109@54	24.15	22.05	0.1603
77	30	80	656000	3840	CP-OFDM QPSK	1@1	24.33	22.23	0.1671
77	30	80	656000	3840	CP-OFDM QPSK	1@215	23.9	21.8	0.1514
77	30	80	662666	3939.99	DFT-s-OFDM PI/2 BPSK	108@54	26.06	23.96	0.2489
77	30	80	662666	3939.99	DFT-s-OFDM PI/2 BPSK	1@1	25.76	23.66	0.2323
77	30	80	662666	3939.99	DFT-s-OFDM PI/2 BPSK	1@215	25.97	23.87	0.2438
77	30	80	662666	3939.99	DFT-s-OFDM QPSK	108@54	26.03	23.93	0.2472
77	30	80	662666	3939.99	DFT-s-OFDM QPSK	1@1	25.71	23.61	0.2296
77	30	80	662666	3939.99	DFT-s-OFDM QPSK	1@215	25.91	23.81	0.2404
77	30	80	662666	3939.99	DFT-s-OFDM 16 QAM	108@54	25.08	22.98	0.1986
77	30	80	662666	3939.99	DFT-s-OFDM 16 QAM	1@1	24.56	22.46	0.1762
77	30	80	662666	3939.99	DFT-s-OFDM 16 QAM	1@215	24.83	22.73	0.1875

77	30	80	662666	3939.99	DFT-s-OFDM 64 QAM	108@54	23.53	21.43	0.1390
77	30	80	662666	3939.99	DFT-s-OFDM 64 QAM	1@1	23.12	21.02	0.1265
77	30	80	662666	3939.99	DFT-s-OFDM 64 QAM	1@215	23.36	21.26	0.1337
77	30	80	662666	3939.99	DFT-s-OFDM 256 QAM	108@54	21.54	19.44	0.0879
77	30	80	662666	3939.99	DFT-s-OFDM 256 QAM	1@1	21.09	18.99	0.0793
77	30	80	662666	3939.99	DFT-s-OFDM 256 QAM	1@215	21.25	19.15	0.0822
77	30	80	662666	3939.99	CP-OFDM QPSK	109@54	24.49	22.39	0.1734
77	30	80	662666	3939.99	CP-OFDM QPSK	1@1	24.28	22.18	0.1652
77	30	80	662666	3939.99	CP-OFDM QPSK	1@215	24.5	22.4	0.1738
77	30	90	649668	3745.02	DFT-s-OFDM PI/2 BPSK	120@60	25.86	23.76	0.2377
77	30	90	649668	3745.02	DFT-s-OFDM PI/2 BPSK	1@1	25.98	23.88	0.2443
77	30	90	649668	3745.02	DFT-s-OFDM PI/2 BPSK	1@243	21.94	19.84	0.0964
77	30	90	649668	3745.02	DFT-s-OFDM QPSK	120@60	25.86	23.76	0.2377
77	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@1	25.97	23.87	0.2438
77	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@243	25.78	23.68	0.2333
77	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	120@60	24.9	22.8	0.1905
77	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@1	24.9	22.8	0.1905
77	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@243	24.58	22.48	0.1770
77	30	90	649668	3745.02	DFT-s-OFDM 64 QAM	120@60	23.36	21.26	0.1337
77	30	90	649668	3745.02	DFT-s-OFDM 64 QAM	1@1	23.41	21.31	0.1352
77	30	90	649668	3745.02	DFT-s-OFDM 64 QAM	1@243	23.15	21.05	0.1274
77	30	90	649668	3745.02	DFT-s-OFDM 256 QAM	120@60	21.32	19.22	0.0836
77	30	90	649668	3745.02	DFT-s-OFDM 256 QAM	1@1	21.25	19.15	0.0822
77	30	90	649668	3745.02	DFT-s-OFDM 256 QAM	1@243	20.96	18.86	0.0769
77	30	90	649668	3745.02	CP-OFDM QPSK	123@61	24.35	22.25	0.1679

77	30	90	649668	3745.02	CP-OFDM QPSK	1@1	24.59	22.49	0.1774
77	30	90	649668	3745.02	CP-OFDM QPSK	1@243	24.14	22.04	0.1600
77	30	90	656000	3840	DFT-s- OFDM PI/2 BPSK	120@60	25.64	23.54	0.2259
77	30	90	656000	3840	DFT-s- OFDM PI/2 BPSK	1@1	25.63	23.53	0.2254
77	30	90	656000	3840	DFT-s- OFDM PI/2 BPSK	1@243	22.18	20.08	0.1019
77	30	90	656000	3840	DFT-s- OFDM QPSK	120@60	25.62	23.52	0.2249
77	30	90	656000	3840	DFT-s- OFDM QPSK	1@1	25.6	23.5	0.2239
77	30	90	656000	3840	DFT-s- OFDM QPSK	1@243	25.67	23.57	0.2275
77	30	90	656000	3840	DFT-s- OFDM 16 QAM	120@60	24.63	22.53	0.1791
77	30	90	656000	3840	DFT-s- OFDM 16 QAM	1@1	24.48	22.38	0.1730
77	30	90	656000	3840	DFT-s- OFDM 16 QAM	1@243	24.56	22.46	0.1762
77	30	90	656000	3840	DFT-s- OFDM 64 QAM	120@60	23.14	21.04	0.1271
77	30	90	656000	3840	DFT-s- OFDM 64 QAM	1@1	23.09	20.99	0.1256
77	30	90	656000	3840	DFT-s- OFDM 64 QAM	1@243	23.03	20.93	0.1239
77	30	90	656000	3840	DFT-s- OFDM 256 QAM	120@60	21.26	19.16	0.0824
77	30	90	656000	3840	DFT-s- OFDM 256 QAM	1@1	21.06	18.96	0.0787
77	30	90	656000	3840	DFT-s- OFDM 256 QAM	1@243	20.97	18.87	0.0771
77	30	90	656000	3840	CP-OFDM QPSK	123@61	24.14	22.04	0.1600
77	30	90	656000	3840	CP-OFDM QPSK	1@1	24.25	22.15	0.1641
77	30	90	656000	3840	CP-OFDM QPSK	1@243	24.02	21.92	0.1556
77	30	90	662332	3934.98	DFT-s- OFDM PI/2 BPSK	120@60	25.86	23.76	0.2377
77	30	90	662332	3934.98	DFT-s- OFDM PI/2 BPSK	1@1	25.69	23.59	0.2286
77	30	90	662332	3934.98	DFT-s- OFDM PI/2 BPSK	1@243	25.94	23.84	0.2421
77	30	90	662332	3934.98	DFT-s- OFDM QPSK	120@60	25.81	23.71	0.2350
77	30	90	662332	3934.98	DFT-s- OFDM QPSK	1@1	25.69	23.59	0.2286
77	30	90	662332	3934.98	DFT-s- OFDM	1@243	25.99	23.89	0.2449

QPSK									
77	30	90	662332	3934.98	DFT-s-OFDM 16 QAM	120@60	24.88	22.78	0.1897
77	30	90	662332	3934.98	DFT-s-OFDM 16 QAM	1@1	24.59	22.49	0.1774
77	30	90	662332	3934.98	DFT-s-OFDM 16 QAM	1@243	24.82	22.72	0.1871
77	30	90	662332	3934.98	DFT-s-OFDM 64 QAM	120@60	23.35	21.25	0.1334
77	30	90	662332	3934.98	DFT-s-OFDM 64 QAM	1@1	23.25	21.15	0.1303
77	30	90	662332	3934.98	DFT-s-OFDM 64 QAM	1@243	23.31	21.21	0.1321
77	30	90	662332	3934.98	DFT-s-OFDM 256 QAM	120@60	21.36	19.26	0.0843
77	30	90	662332	3934.98	DFT-s-OFDM 256 QAM	1@1	20.96	18.86	0.0769
77	30	90	662332	3934.98	DFT-s-OFDM 256 QAM	1@243	21.34	19.24	0.0839
77	30	90	662332	3934.98	CP-OFDM QPSK	123@61	24.31	22.21	0.1663
77	30	90	662332	3934.98	CP-OFDM QPSK	1@1	24.21	22.11	0.1626
77	30	90	662332	3934.98	CP-OFDM QPSK	1@243	24.32	22.22	0.1667
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	135@67	25.84	23.74	0.2366
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.95	23.85	0.2427
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@271	25.66	23.56	0.2270
77	30	100	650000	3750	DFT-s-OFDM QPSK	135@67	25.82	23.72	0.2355
77	30	100	650000	3750	DFT-s-OFDM QPSK	1@1	26.01	23.91	0.2460
77	30	100	650000	3750	DFT-s-OFDM QPSK	1@271	25.69	23.59	0.2286
77	30	100	650000	3750	DFT-s-OFDM 16 QAM	135@67	24.78	22.68	0.1854
77	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@1	24.82	22.72	0.1871
77	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@271	24.54	22.44	0.1754
77	30	100	650000	3750	DFT-s-OFDM 64 QAM	135@67	23.33	21.23	0.1327
77	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@1	23.45	21.35	0.1365
77	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@271	23.15	21.05	0.1274
77	30	100	650000	3750	DFT-s-	135@67	21.29	19.19	0.0830

					OFDM 256 QAM					
77	30	100	650000	3750	DFT-s- OFDM 256 QAM	1@1	21.32	19.22	0.0836	
77	30	100	650000	3750	DFT-s- OFDM 256 QAM	1@271	21.01	18.91	0.0778	
77	30	100	650000	3750	CP-OFDM QPSK	137@68	24.29	22.19	0.1656	
77	30	100	650000	3750	CP-OFDM QPSK	1@1	24.58	22.48	0.1770	
77	30	100	650000	3750	CP-OFDM QPSK	1@271	24.11	22.01	0.1589	
77	30	100	656000	3840	DFT-s- OFDM PI/2 BPSK	135@67	25.77	23.67	0.2328	
77	30	100	656000	3840	DFT-s- OFDM PI/2 BPSK	1@1	25.69	23.59	0.2286	
77	30	100	656000	3840	DFT-s- OFDM PI/2 BPSK	1@271	25.66	23.56	0.2270	
77	30	100	656000	3840	DFT-s- OFDM QPSK	135@67	25.66	23.56	0.2270	
77	30	100	656000	3840	DFT-s- OFDM QPSK	1@1	25.73	23.63	0.2307	
77	30	100	656000	3840	DFT-s- OFDM QPSK	1@271	25.69	23.59	0.2286	
77	30	100	656000	3840	DFT-s- OFDM 16 QAM	135@67	24.61	22.51	0.1782	
77	30	100	656000	3840	DFT-s- OFDM 16 QAM	1@1	24.55	22.45	0.1758	
77	30	100	656000	3840	DFT-s- OFDM 16 QAM	1@271	24.53	22.43	0.1750	
77	30	100	656000	3840	DFT-s- OFDM 64 QAM	135@67	23.23	21.13	0.1297	
77	30	100	656000	3840	DFT-s- OFDM 64 QAM	1@1	23.06	20.96	0.1247	
77	30	100	656000	3840	DFT-s- OFDM 64 QAM	1@271	23.07	20.97	0.1250	
77	30	100	656000	3840	DFT-s- OFDM 256 QAM	135@67	21.13	19.03	0.0800	
77	30	100	656000	3840	DFT-s- OFDM 256 QAM	1@1	21.1	19	0.0794	
77	30	100	656000	3840	DFT-s- OFDM 256 QAM	1@271	21.05	18.95	0.0785	
77	30	100	656000	3840	CP-OFDM QPSK	137@68	24.2	22.1	0.1622	
77	30	100	656000	3840	CP-OFDM QPSK	1@1	24.24	22.14	0.1637	
77	30	100	656000	3840	CP-OFDM QPSK	1@271	24.14	22.04	0.1600	
77	30	100	662000	3930	DFT-s- OFDM PI/2 BPSK	135@67	25.87	23.77	0.2382	
77	30	100	662000	3930	DFT-s- OFDM PI/2 BPSK	1@1	25.51	23.41	0.2193	

77	30	100	662000	3930	DFT-s-OFDM PI/2 BPSK	1@271	25.93	23.83	0.2415
77	30	100	662000	3930	DFT-s-OFDM QPSK	135@67	25.84	23.74	0.2366
77	30	100	662000	3930	DFT-s-OFDM QPSK	1@1	25.53	23.43	0.2203
77	30	100	662000	3930	DFT-s-OFDM QPSK	1@271	25.9	23.8	0.2399
77	30	100	662000	3930	DFT-s-OFDM 16 QAM	135@67	24.85	22.75	0.1884
77	30	100	662000	3930	DFT-s-OFDM 16 QAM	1@1	24.4	22.3	0.1698
77	30	100	662000	3930	DFT-s-OFDM 16 QAM	1@271	24.84	22.74	0.1879
77	30	100	662000	3930	DFT-s-OFDM 64 QAM	135@67	23.35	21.25	0.1334
77	30	100	662000	3930	DFT-s-OFDM 64 QAM	1@1	23.02	20.92	0.1236
77	30	100	662000	3930	DFT-s-OFDM 64 QAM	1@271	23.44	21.34	0.1361
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	135@67	21.37	19.27	0.0845
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	1@1	20.97	18.87	0.0771
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	1@271	21.24	19.14	0.0820
77	30	100	662000	3930	CP-OFDM QPSK	137@68	24.31	22.21	0.1663
77	30	100	662000	3930	CP-OFDM QPSK	1@1	24.11	22.01	0.1589
77	30	100	662000	3930	CP-OFDM QPSK	1@271	24.29	22.19	0.1656

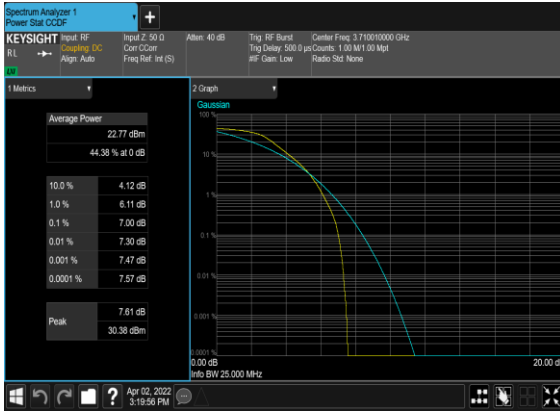
Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00517	PASS	NV
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00316	PASS	LV
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00679	PASS	HV
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00341	PASS	-30°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00334	PASS	-20°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00641	PASS	-10°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00342	PASS	0°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00635	PASS	10°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00573	PASS	20°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.0061	PASS	30°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00352	PASS	40°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00464	PASS	50°C

Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
77	30	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	50@0	7.0	13	PASS
77	30	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	1@0	7.43	13	PASS
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	50@0	7.7	13	PASS
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@0	7.18	13	PASS
77	30	20	656000	3840.0	DFT-s-OFDM PI/2 BPSK	50@0	6.95	13	PASS
77	30	20	656000	3840.0	DFT-s-OFDM PI/2 BPSK	1@0	7.64	13	PASS
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	7.66	13	PASS
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	1@0	7.81	13	PASS
77	30	20	664666	3969.99	DFT-s-OFDM PI/2 BPSK	50@0	6.93	13	PASS
77	30	20	664666	3969.99	DFT-s-OFDM PI/2 BPSK	1@0	7.18	13	PASS
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	50@0	7.64	13	PASS
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	1@0	7.13	13	PASS

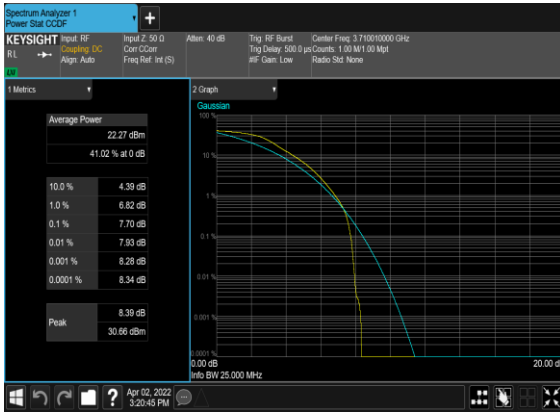
N77(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH



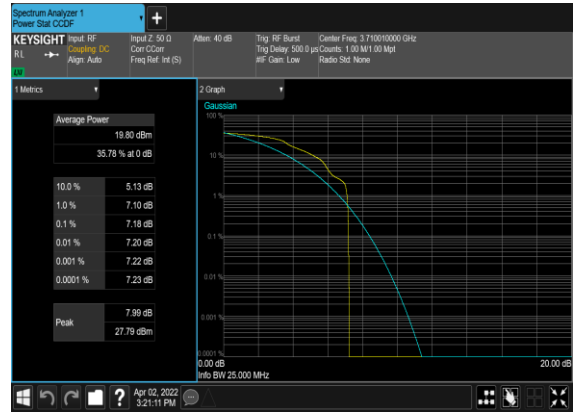
N77(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Low_CH



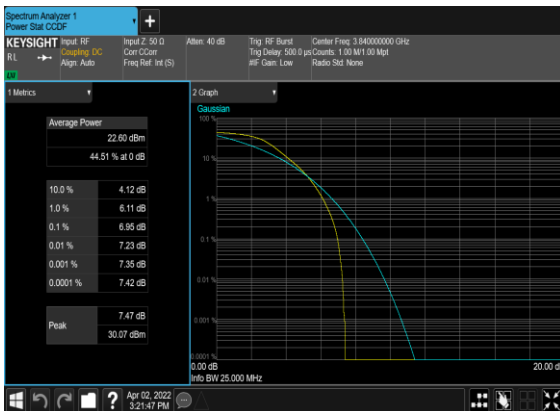
N77(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



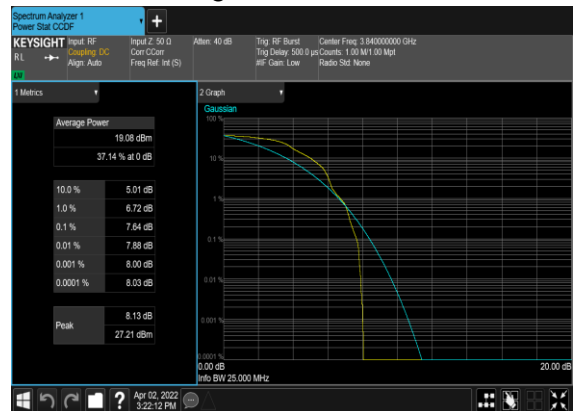
N77(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



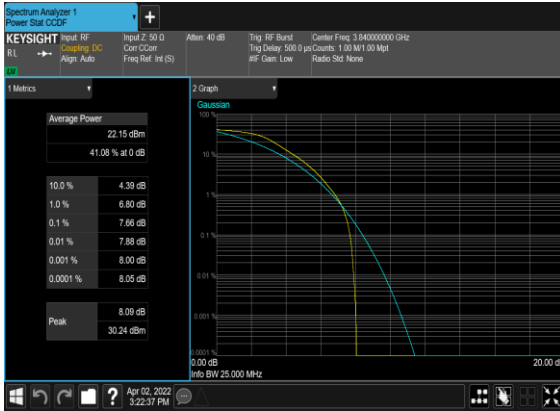
N77(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



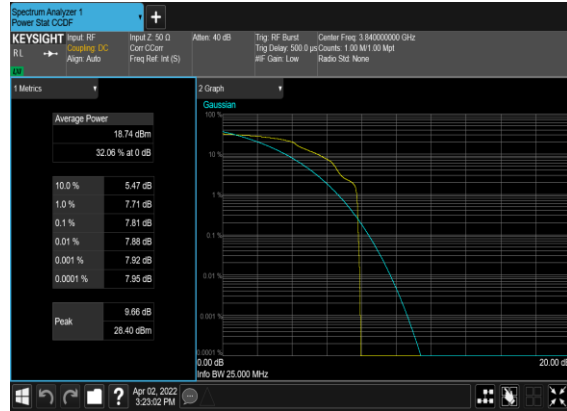
N77(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Mid_CH



N77(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



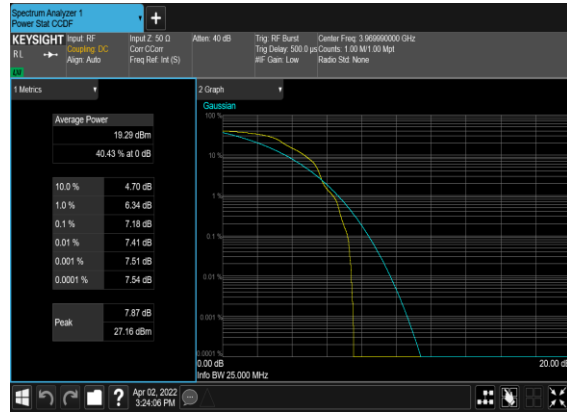
N77(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH



N77(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_High_CH



N77(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



N77(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)
77	30	10	656000	3840.0	DFT-s-OFDM PI/2 BPSK	24@0	8.6034	9.624
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	24@0	8.6025	9.591
77	30	10	656000	3840.0	CP-OFDM QPSK	24@0	8.6006	9.898
77	30	10	656000	3840.0	CP-OFDM 16 QAM	24@0	8.5913	9.979
77	30	10	656000	3840.0	CP-OFDM 64 QAM	24@0	8.5884	9.677
77	30	10	656000	3840.0	CP-OFDM 256 QAM	24@0	8.5933	9.802
77	30	15	656000	3840.0	DFT-s-OFDM PI/2 BPSK	36@0	12.881	14.12
77	30	15	656000	3840.0	DFT-s-OFDM QPSK	36@0	12.834	14.03
77	30	15	656000	3840.0	CP-OFDM QPSK	38@0	13.586	15.13
77	30	15	656000	3840.0	CP-OFDM 16 QAM	38@0	13.57	15.01
77	30	15	656000	3840.0	CP-OFDM 64 QAM	38@0	13.6	15.23
77	30	15	656000	3840.0	CP-OFDM 256 QAM	38@0	13.588	14.93
77	30	20	656000	3840.0	DFT-s-OFDM PI/2 BPSK	50@0	17.8	19.1
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	17.795	18.84
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	18.212	19.57
77	30	20	656000	3840.0	CP-OFDM 16 QAM	51@0	18.257	19.56
77	30	20	656000	3840.0	CP-OFDM 64 QAM	51@0	18.19	19.68
77	30	20	656000	3840.0	CP-OFDM 256 QAM	51@0	18.197	19.81
77	30	30	656000	3840.0	DFT-s-OFDM PI/2 BPSK	75@0	26.719	28.44
77	30	30	656000	3840.0	DFT-s-OFDM QPSK	75@0	26.764	28.22
77	30	30	656000	3840.0	CP-OFDM QPSK	78@0	27.852	29.39
77	30	30	656000	3840.0	CP-OFDM 16 QAM	78@0	27.889	29.18
77	30	30	656000	3840.0	CP-OFDM 64 QAM	78@0	27.831	29.41
77	30	30	656000	3840.0	CP-OFDM 256 QAM	78@0	27.852	29.33

77	30	40	656000	3840.0	DFT-s-OFDM PI/2 BPSK	100@0	35.763	37.48
77	30	40	656000	3840.0	DFT-s-OFDM QPSK	100@0	35.795	37.61
77	30	40	656000	3840.0	CP-OFDM QPSK	106@0	37.835	39.81
77	30	40	656000	3840.0	CP-OFDM 16 QAM	106@0	37.804	39.46
77	30	40	656000	3840.0	CP-OFDM 64 QAM	106@0	37.868	39.83
77	30	40	656000	3840.0	CP-OFDM 256 QAM	106@0	37.874	39.75
77	30	50	656000	3840.0	DFT-s-OFDM PI/2 BPSK	128@0	45.782	47.97
77	30	50	656000	3840.0	DFT-s-OFDM QPSK	128@0	45.746	47.54
77	30	50	656000	3840.0	CP-OFDM QPSK	133@0	47.484	49.56
77	30	50	656000	3840.0	CP-OFDM 16 QAM	133@0	47.497	49.45
77	30	50	656000	3840.0	CP-OFDM 64 QAM	133@0	47.475	49.4
77	30	50	656000	3840.0	CP-OFDM 256 QAM	133@0	47.398	49.62
77	30	60	656000	3840.0	DFT-s-OFDM PI/2 BPSK	162@0	57.99	59.85
77	30	60	656000	3840.0	DFT-s-OFDM QPSK	162@0	57.906	60.3
77	30	60	656000	3840.0	CP-OFDM QPSK	162@0	57.768	59.99
77	30	60	656000	3840.0	CP-OFDM 16 QAM	162@0	57.746	59.86
77	30	60	656000	3840.0	CP-OFDM 64 QAM	162@0	57.949	60.06
77	30	60	656000	3840.0	CP-OFDM 256 QAM	162@0	57.778	60.24
77	30	70	656000	3840.0	DFT-s-OFDM PI/2 BPSK	180@0	64.432	66.44
77	30	70	656000	3840.0	DFT-s-OFDM QPSK	180@0	64.334	66.53
77	30	70	656000	3840.0	CP-OFDM QPSK	189@0	67.539	69.87
77	30	70	656000	3840.0	CP-OFDM 16 QAM	189@0	67.552	70.05
77	30	70	656000	3840.0	CP-OFDM 64 QAM	189@0	67.444	69.8
77	30	70	656000	3840.0	CP-OFDM 256 QAM	189@0	67.484	69.85
77	30	80	656000	3840.0	DFT-s-OFDM PI/2 BPSK	216@0	77.32	79.96
77	30	80	656000	3840.0	DFT-s-OFDM	216@0	77.211	79.84

QPSK								
77	30	80	656000	3840.0	CP-OFDM QPSK	217@0	77.553	80.24
77	30	80	656000	3840.0	CP-OFDM 16 QAM	217@0	77.458	80.31
77	30	80	656000	3840.0	CP-OFDM 64 QAM	217@0	77.512	80.28
77	30	80	656000	3840.0	CP-OFDM 256 QAM	217@0	77.378	80.08
77	30	90	656000	3840.0	DFT-s- OFDM PI/2 BPSK	240@0	85.828	88.62
77	30	90	656000	3840.0	DFT-s- OFDM QPSK	240@0	85.763	88.47
77	30	90	656000	3840.0	CP-OFDM QPSK	245@0	87.414	90.69
77	30	90	656000	3840.0	CP-OFDM 16 QAM	245@0	87.409	90.34
77	30	90	656000	3840.0	CP-OFDM 64 QAM	245@0	87.47	90.25
77	30	90	656000	3840.0	CP-OFDM 256 QAM	245@0	87.424	90.48
77	30	100	656000	3840.0	DFT-s- OFDM PI/2 BPSK	270@0	96.6	99.49
77	30	100	656000	3840.0	DFT-s- OFDM QPSK	270@0	96.37	99.74
77	30	100	656000	3840.0	CP-OFDM QPSK	273@0	97.476	100.5
77	30	100	656000	3840.0	CP-OFDM 16 QAM	273@0	97.638	100.6
77	30	100	656000	3840.0	CP-OFDM 64 QAM	273@0	97.455	100.7
77	30	100	656000	3840.0	CP-OFDM 256 QAM	273@0	97.506	100.9

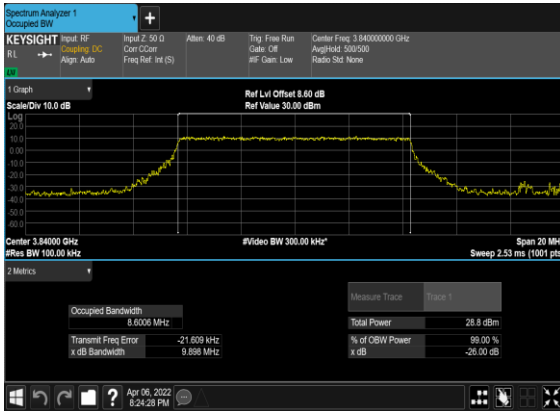
N77(10M)_DFT-s-OFDM_PI_2- BPSK_Outer_Full_Mid_CH



N77(10M)_DFT-s- OFDM_QPSK_Outer_Full_Mid_CH



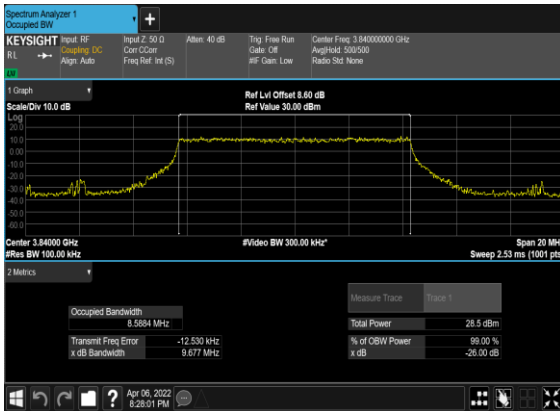
N77(10M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



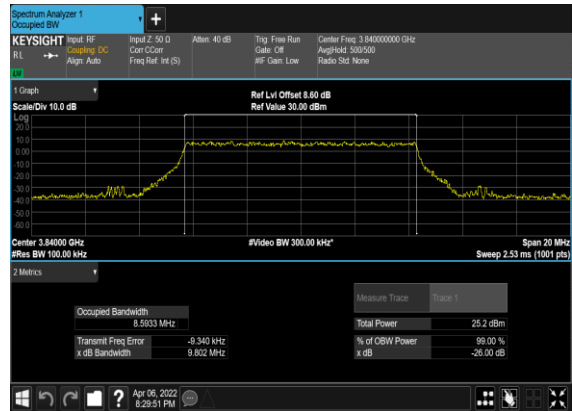
N77(10M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



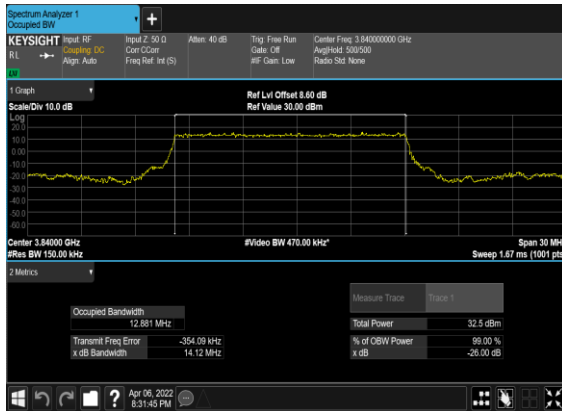
N77(10M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



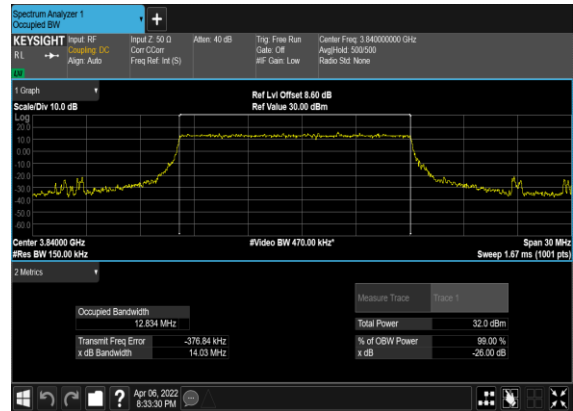
N77(10M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



N77(15M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



N77(15M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



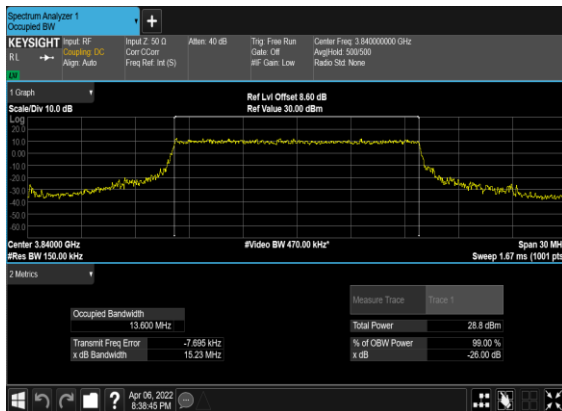
N77(15M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



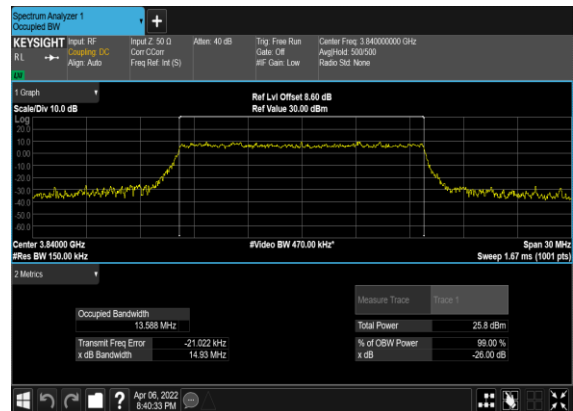
N77(15M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



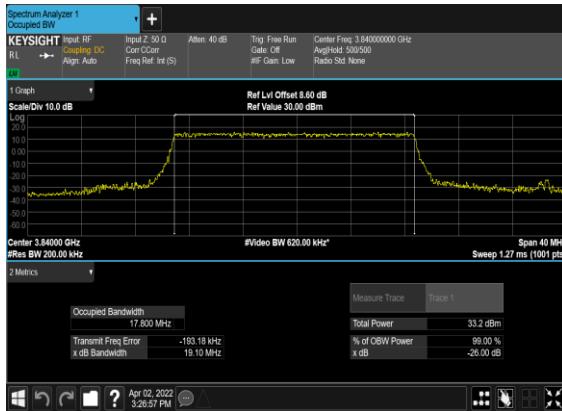
N77(15M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



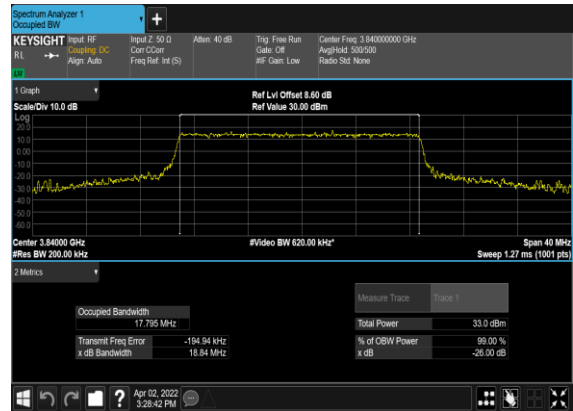
N77(15M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



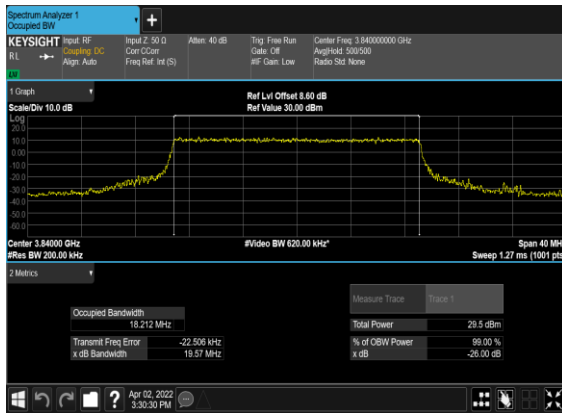
N77(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



N77(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



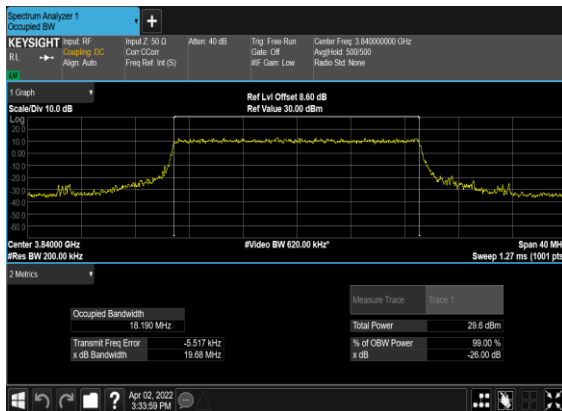
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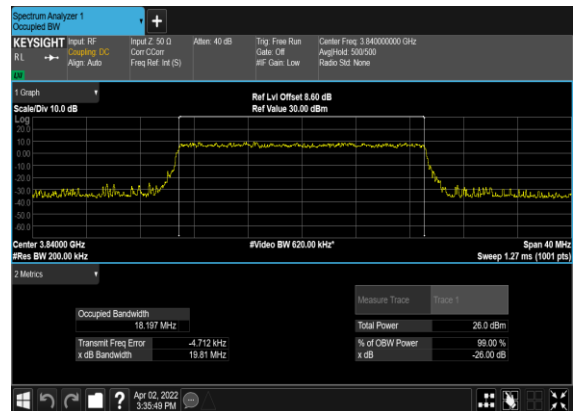
N77(20M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



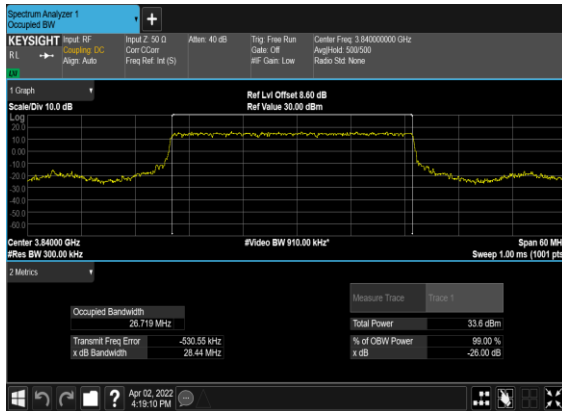
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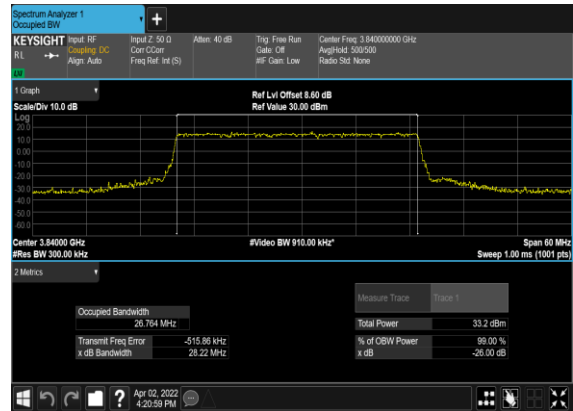
N77(20M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



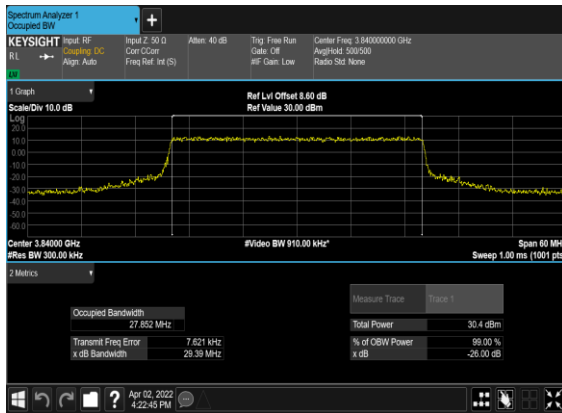
N77(30M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



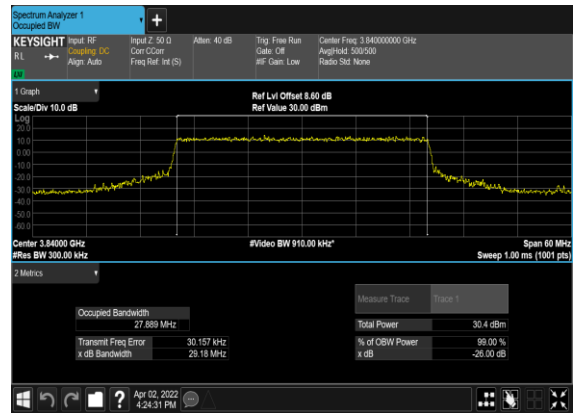
N77(30M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



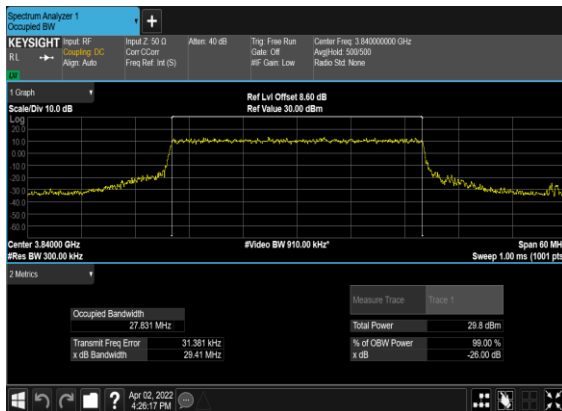
N77(30M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



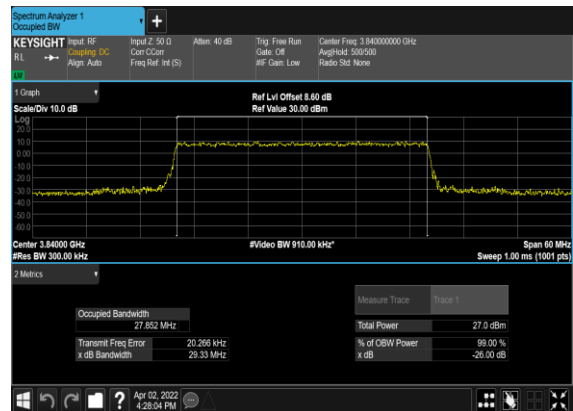
N77(30M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



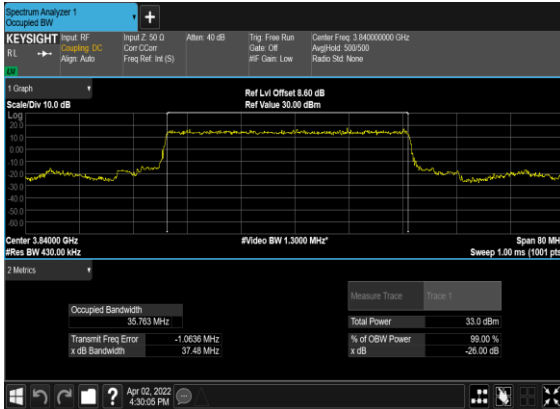
N77(30M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



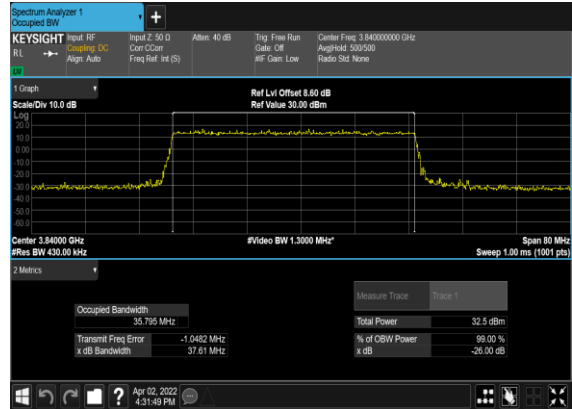
N77(30M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



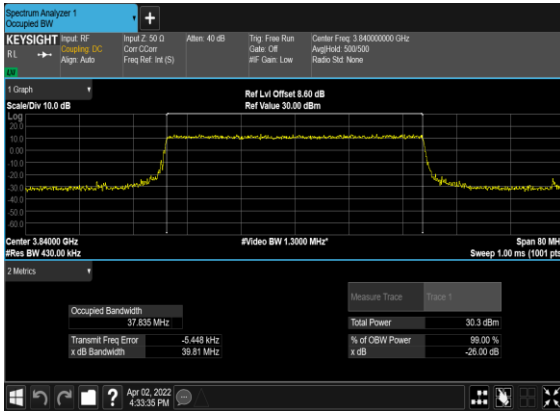
N77(40M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



N77(40M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



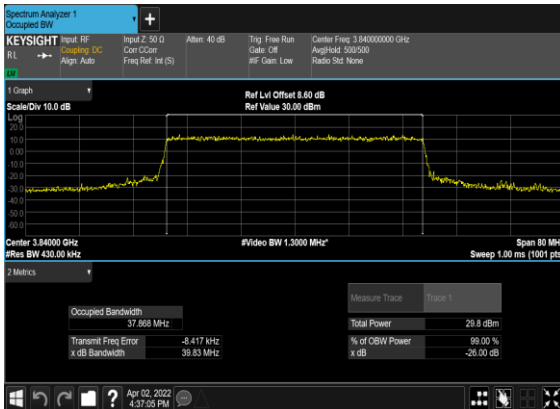
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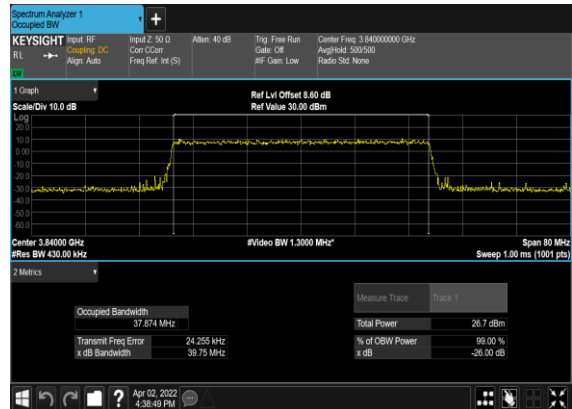
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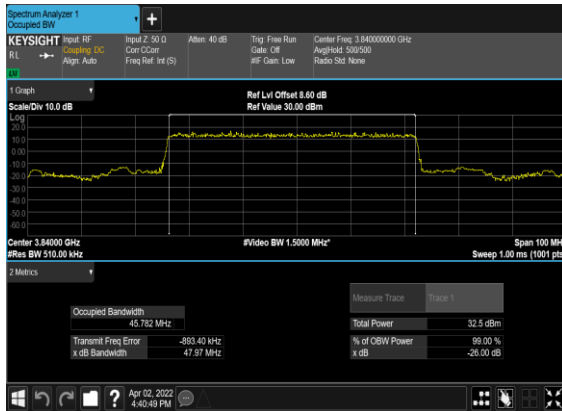
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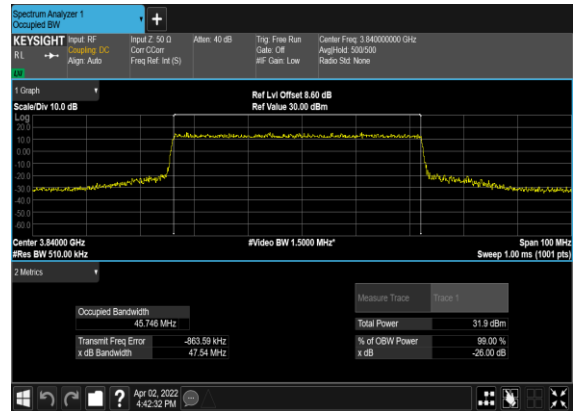
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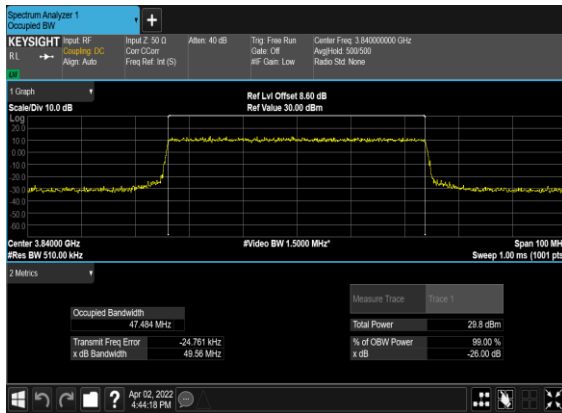
N77(50M)_DFT-s-OFDM_PI_2- BPSK_Outer_Full_Mid_CH



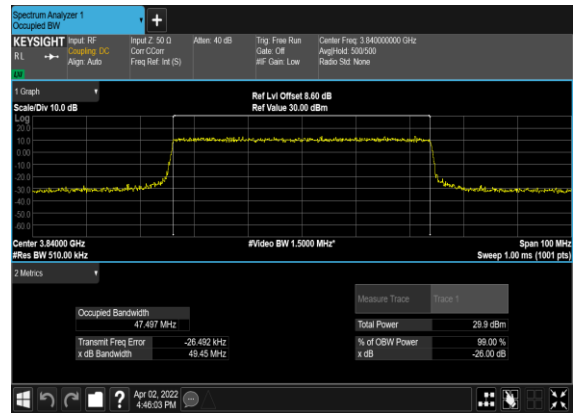
N77(50M)_DFT-s- OFDM_QPSK_Outer_Full_Mid_CH



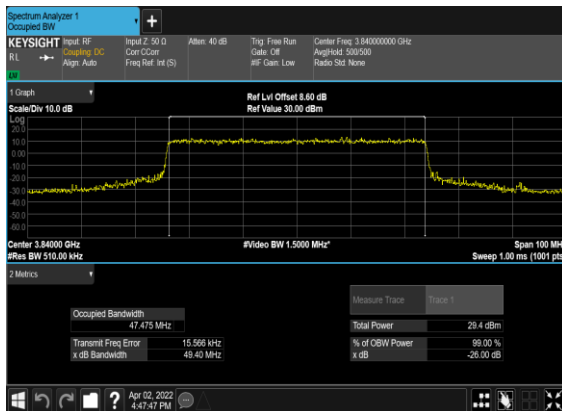
N77(50M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



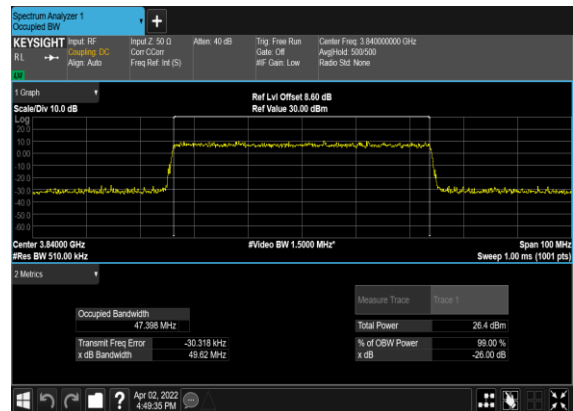
N77(50M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



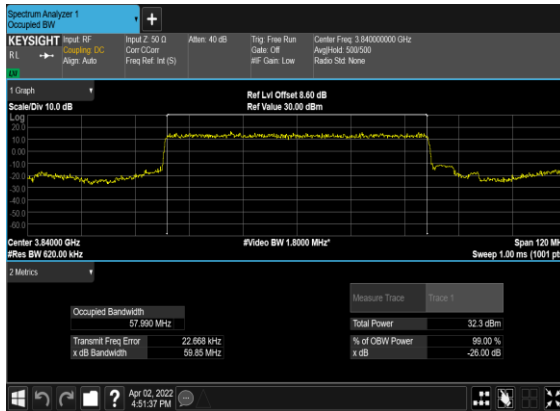
N77(50M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



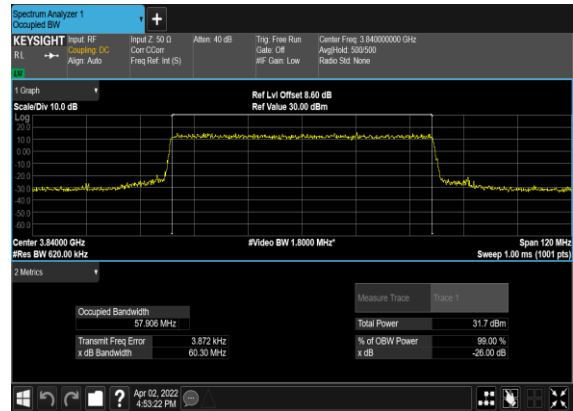
N77(50M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



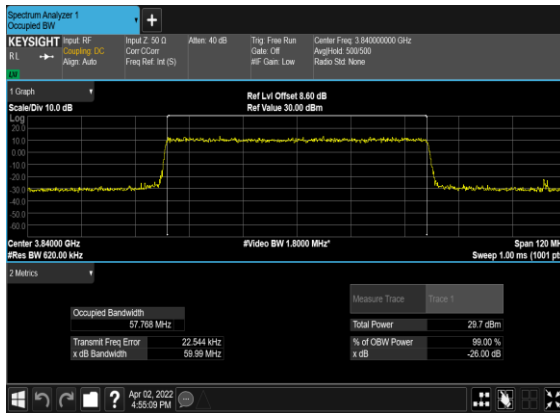
N77(60M)_DFT-s-OFDM_PI_2- BPSK_Outer_Full_Mid_CH



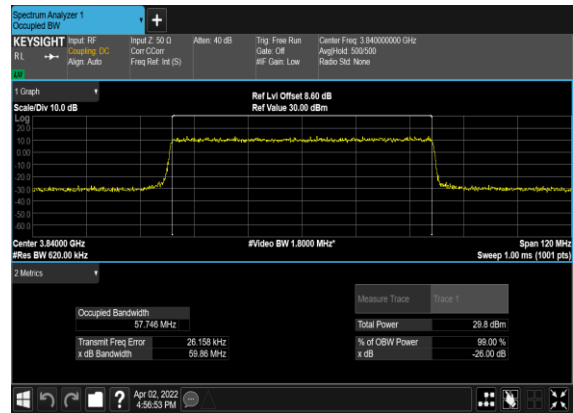
N77(60M)_DFT-s- OFDM_QPSK_Outer_Full_Mid_CH



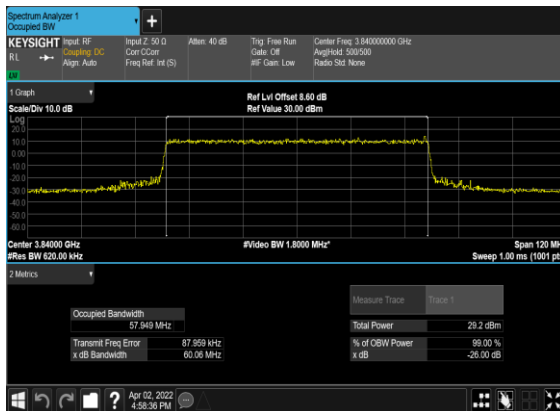
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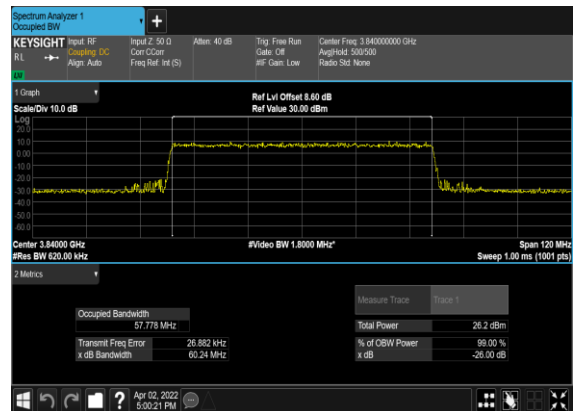
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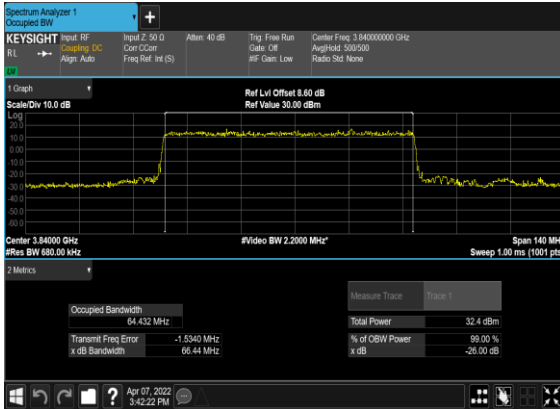
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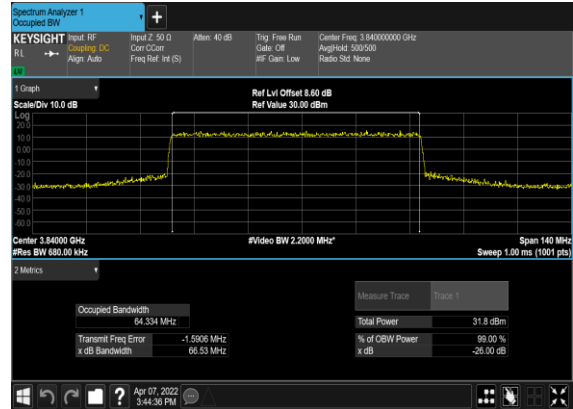
N77(60M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



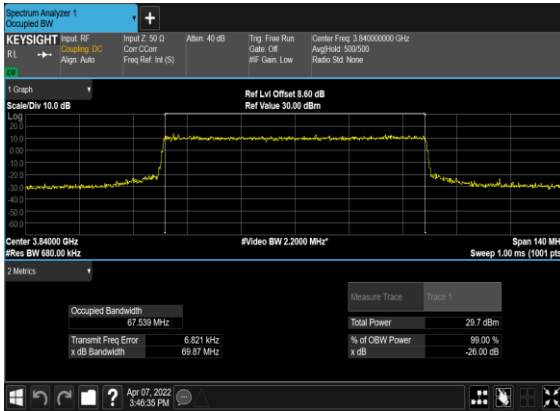
N77(70M)_DFT-s-OFDM_PI_2- BPSK_Outer_Full_Mid_CH



N77(70M)_DFT-s- OFDM_QPSK_Outer_Full_Mid_CH



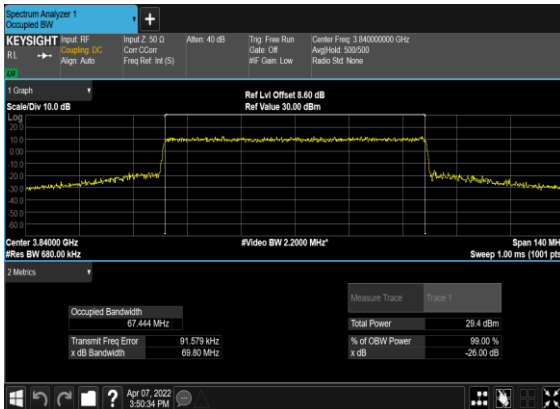
N77(70M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



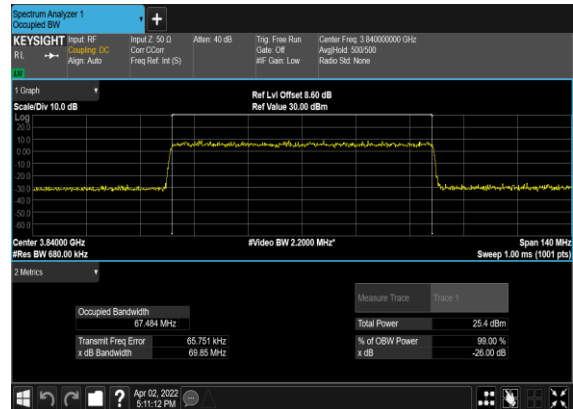
N77(70M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



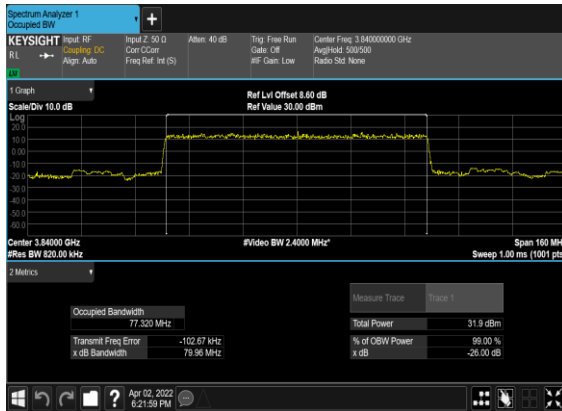
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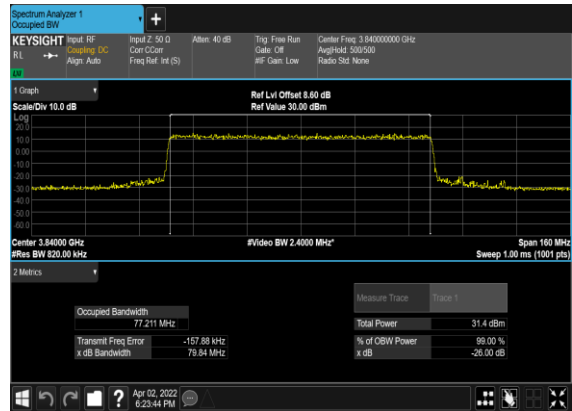
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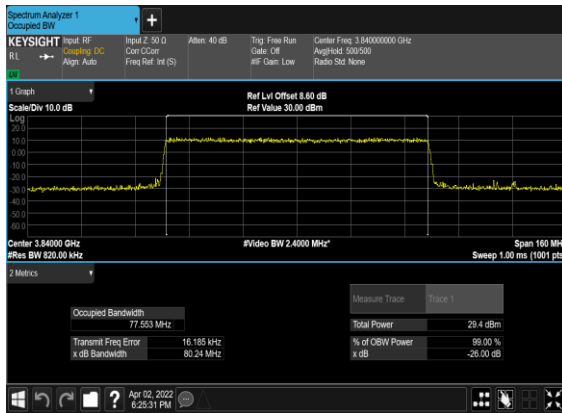
N77(80M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



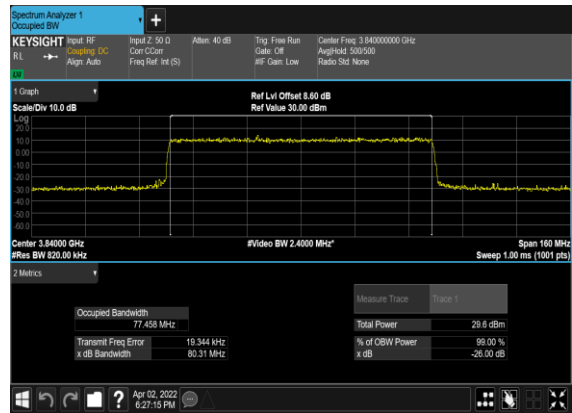
N77(80M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



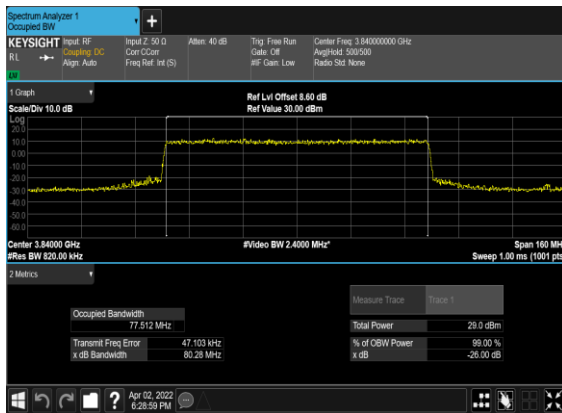
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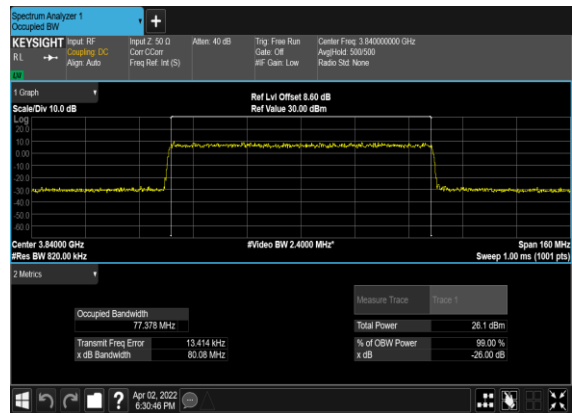
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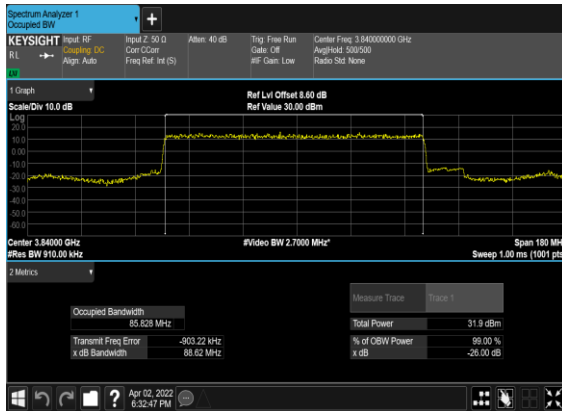
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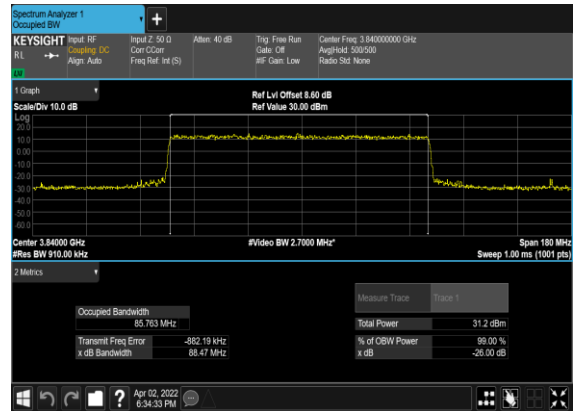
N77(80M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



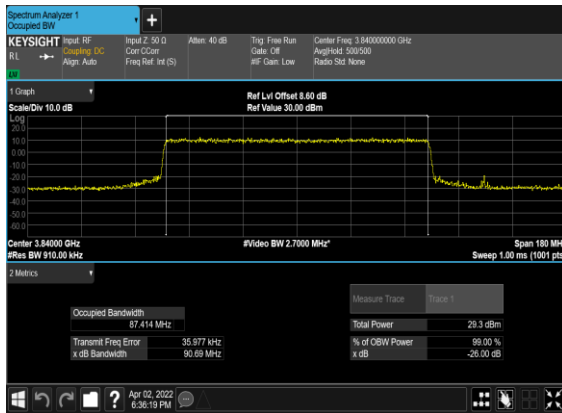
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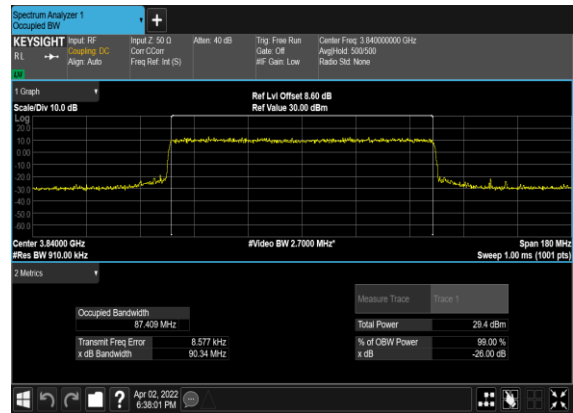
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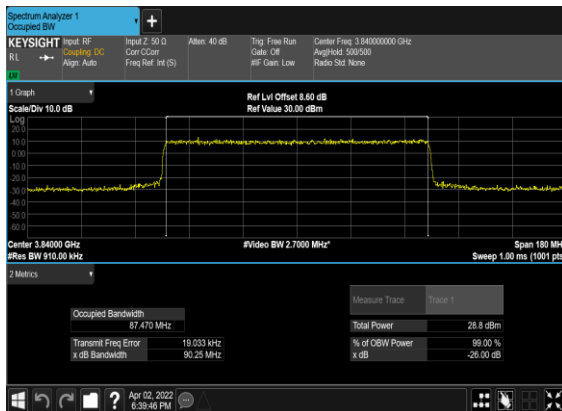
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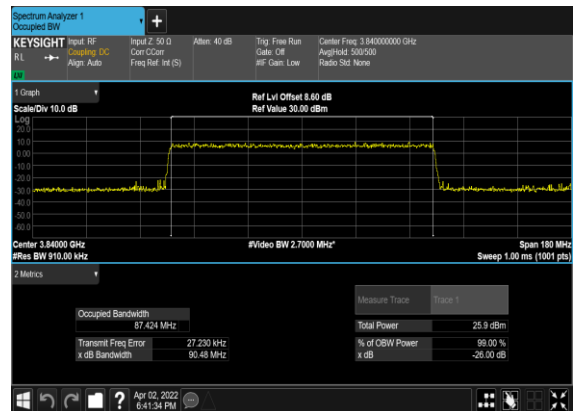
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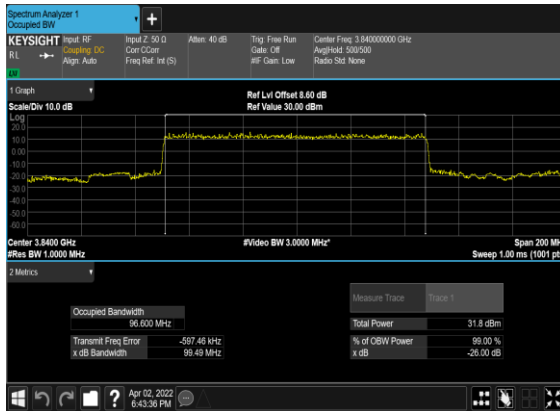
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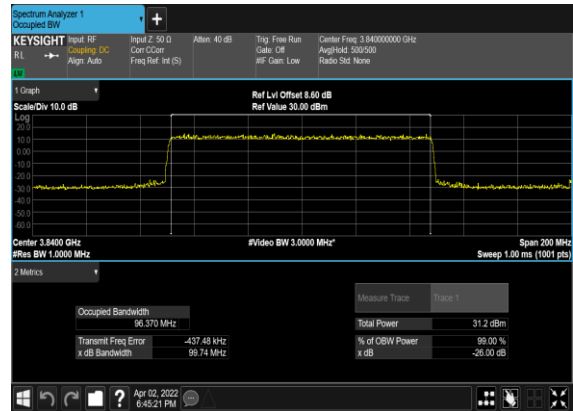
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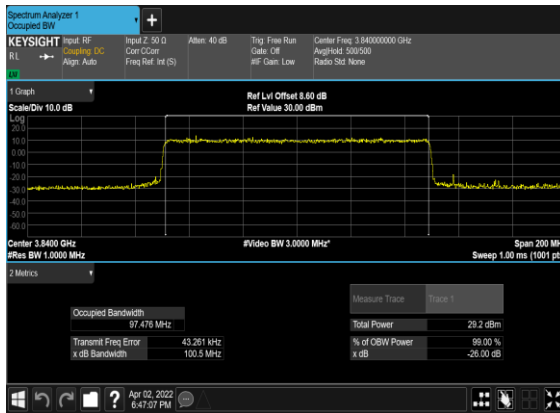
N77(100M)_DFT-s-OFDM_PI_2- BPSK_Outer_Full_Mid_CH



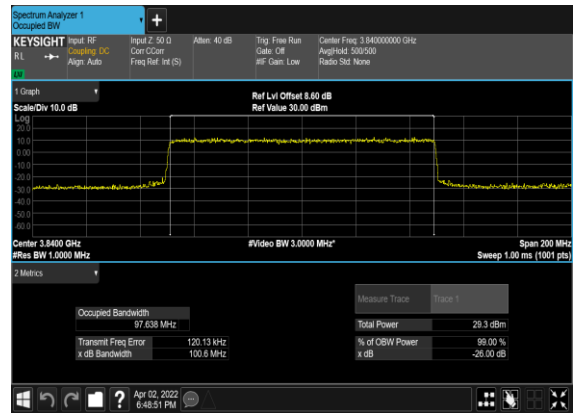
N77(100M)_DFT-s- OFDM_QPSK_Outer_Full_Mid_CH



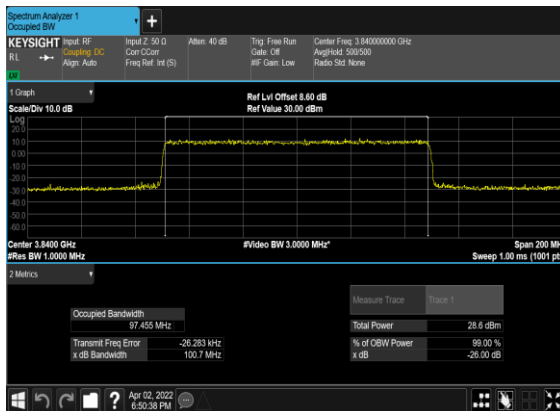
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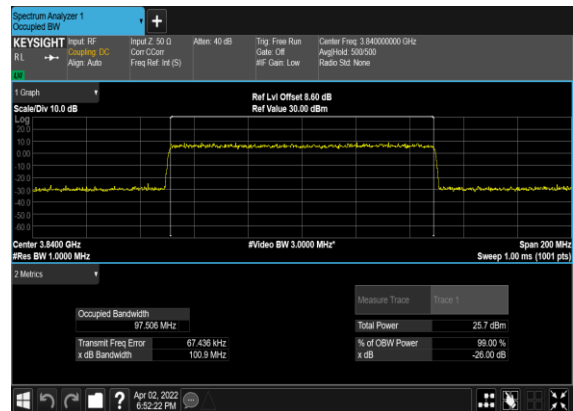
N77(100M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N77(100M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



N77(100M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



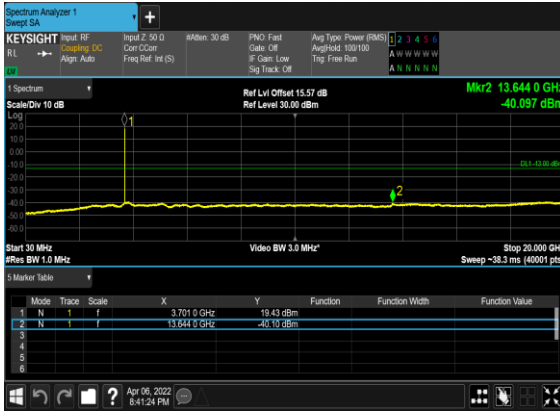
Conducted Spurious Emissions

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	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	---

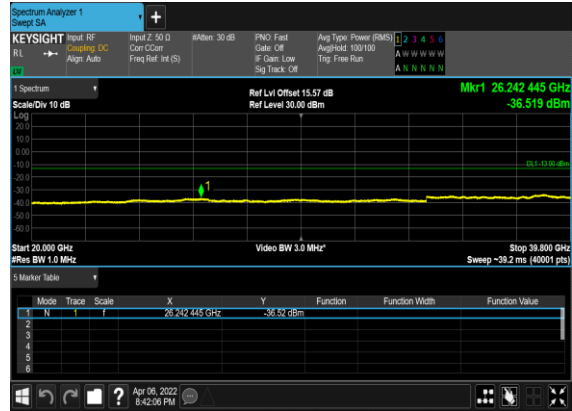
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	635000	3525.0	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



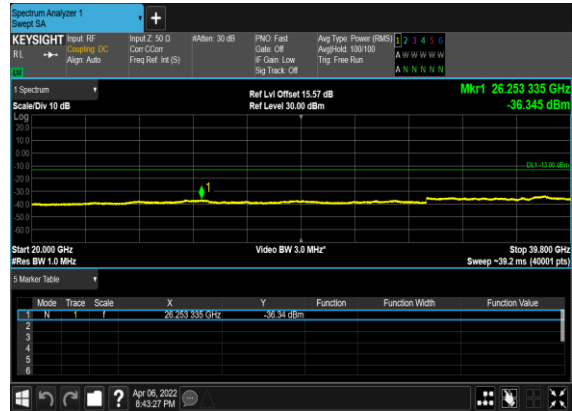
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



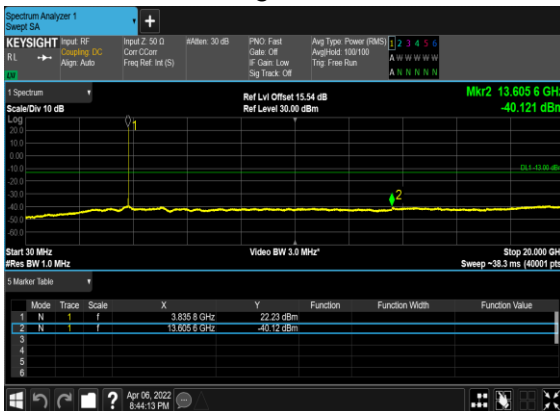
N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



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

