FCC RF Test Report

APPLICANT	:	**Lenovo(Shanghai) Electronics Technology Co., Ltd.**
EQUIPMENT	:	**Portable Tablet Computer**
BRAND NAME	:	**Lenovo**
MODEL NAME	:	**TB336ZJ**
FCC ID	:	**O57TB336ZJ**
STANDARD	:	**47 CFR Part 2, 96**
CLASSIFICATION	:	**Citizens Band End User Devices (CBE)**
EQUIPMENT TYPE	:	**End User Equipment**
TEST DATE(S)	:	**Jun. 08, 2025 ~ Jul. 04, 2025**

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

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

Jason Jia

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Approved by: Jason Jia

Sporton International Inc. (Kunshan)
No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China

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History of this test report

Report No.	Version	Description	Issued Date
FG553003D	01	Initial issue of report	Jul. 09, 2025

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Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
-	§96.41	Peak-to-Average Ratio	Not Applicable	Not applicable for End User Devices
3.3	§96.41	Maximum E.I.R.P	Pass	-
		Maximum Power Spectral Density	Not Applicable	Not applicable for End User Devices
3.4	§2.1049 §96.41	Occupied Bandwidth	Reporting only	-
3.5	§2.1051 §96.41	Conducted Band Edge Measurement Adjacent Channel Leakage Ratio	Pass	-
3.6	§2.1051 §96.41	Conducted Spurious Emission	Pass	-
3.7	§2.1055	Frequency Stability for Temperature & Voltage	Pass	-
4.4	§2.1051 §96.41	Radiated Spurious Emission	Pass	Under limit 6.68 dB at 10728.00 MHz

Conformity Assessment Condition:

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

Disclaimer:

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

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1   General Description

1.1 Applicant

Lenovo(Shanghai) Electronics Technology Co., Ltd.

Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone

1.2 Manufacturer

Lenovo PC HK Limited

23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, China

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	Portable Tablet Computer
Brand Name	Lenovo
Model Name	TB336ZJ
FCC ID	O57TB336ZJ
Tx/Rx Frequency	5G NR n78: 3550 MHz ~ 3700 MHz
SCS	30kHz
Bandwidth	n78: 20 / 30 / 40 / 50 / 60 / 70 / 80 / 90 / 100MHz
Antenna Gain	**\<Ant. 3\>** 5G NR n78: -3.3 dBi **\<Ant. 6\>** 5G NR n78: -5.2 dBi **\<Ant. 7\>** 5G NR n78: -3.5 dBi **\<Ant. 8\>** 5G NR n78: -6.4 dBi
Type of Modulation	DFT-s-OFDM (PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM) CP-OFDM (QPSK / 16QAM / 64QAM / 256QAM)
IMEI Code	Conducted: 860228080000694/860228080000702 Radiation: 860228080001676
HW Version	TB336ZJ
SW Version	Lenovo ZUI 17.0
EUT Stage	Identical Prototype

Remark:

1. The above EUTs information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

2. The maximum EIRP is calculated from max output power and max antenna gain, only the maximum EIRP is shown in the report, 5G NR n78 for Antenna 3.

3. For 5G NR n78, only the test data of Ant.3 are showed in the report according to the maximum conducted power for conducted test items.

4. 5G NR n78 support SA mode only.

5. There are four types of EUT, for the differences please refer to the TB336ZJ_Operational Description of Product Equality Declaration exhibit separately. After evaluation, the differences will not affect the RF performance, so we chose Sample 1 to full test.

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1.4 Maximum EIRP Power and Emission Designator

5G NR n78		PI/2 BPSK / QPSK		16QAM / 64QAM/ 256 QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
20	3560.01 ~ 3690.00	0.0596	18M2G7D	0.0490	18M2W7D
30	3565.02 ~ 3684.99	0.0610	27M9G7D	0.0511	27M9W7D
40	3570.00 ~ 3679.98	0.0608	37M9G7D	0.0502	37M9W7D
50	3575.01 ~ 3675.00	0.0607	47M5G7D	0.0500	47M5W7D
60	3580.02 ~ 3669.99	0.0615	57M8G7D	0.0508	57M8W7D
70	3585.00 ~ 3664.98	0.0621	67M7G7D	0.0520	67M7W7D
80	3590.01 ~ 3660.00	0.0641	77M5G7D	0.0537	77M7W7D
90	3595.02 ~ 3654.99	0.0634	87M5G7D	0.0527	87M7W7D
100	3600.00 ~ 3649.98	0.0638	97M5G7D	0.0532	97M6W7D

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

1.5 Testing Site

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

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

1.6 Test Software

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

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1.7 Applied Standards

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

⬩ ANSI C63.26-2015

⬩ 47 CFR Part 2, 96

⬩ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01

⬩ FCC KDB 940660 D01 Part 96 CBRS v03

⬩ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

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

2.   This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

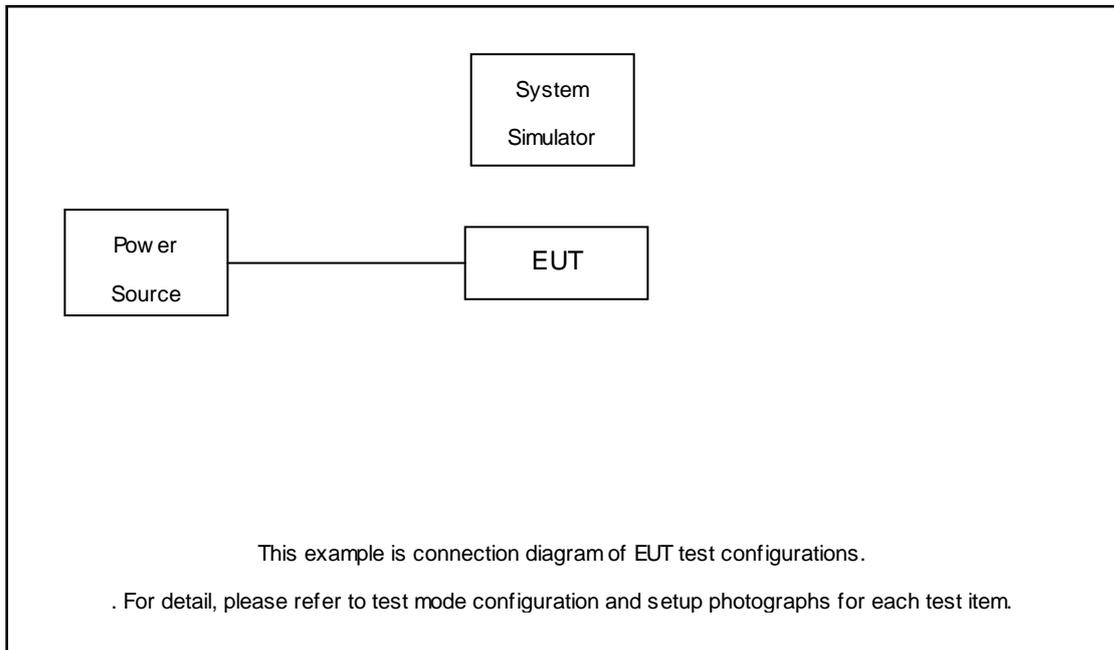# 2 Test Configuration of Equipment Under Test

2.1 Test Mode

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

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

Test Items	5G NR	Bandwidth (MHz)									Modulation					RB #		Test Channel		
		20	30	40	50	60	70	80	90	100	PI/2 BPSK	QPSK	16 QAM	64 QAM	256 QAM	1	Full	L	M	H
Max. Output Power	n78	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Adjacent Channel Leakage Ratio	n78	v	v	v	v	v	v	v	v	v	v	v				v	v	v	v	v
26dB and 99% Bandwidth	n78	v	v	v	v	v	v	v	v	v		v	v	v	v		v	v	v	v
Conducted Band Edge	n78	v	v	v	v	v	v	v	v	v	v	v				v	v	v	v	v
Conducted Spurious Emission	n78	v	v	v	v	v	v	v	v	v	v	v				v		v	v	v
Frequency Stability	n78	v										v					v	v		v
E.I.R.P	n78	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Radiated Spurious Emission	n78	Worst Case																	v	
Note	1. The mark "v" means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 4. Based on engineering evaluation, only the worst modulations test results are shown in the report. 5. Frequency Stability : Normal Voltage = 3.91V; Low Voltage =3.6V; High Voltage =4.5V.																				

2.2 Connection Diagram of Test System

This example is connection diagram of EUT test configurations.

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

2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	NR Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m
3.	Adapter	N/A	N/A	N/A	N/A	N/A
4.	USB Cable	N/A	N/A	N/A	N/A	N/A

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 9.47 dB and 10dB attenuator.

Example :

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

$$= 9.47 + 10 = 19.47 \text{ (dB)}$$

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2.5 Frequency List of Low/Middle/High Channels

5G n78 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
100	Channel	640000	641666	643332
	Frequency	3600	3624.99	3649.98
90	Channel	639668	641666	643666
	Frequency	3595.02	3624.99	3654.99
80	Channel	639334	641666	644000
	Frequency	3590.01	3624.99	3660
70	Channel	639000	641666	644332
	Frequency	3585.0	3624.99	3664.98
60	Channel	638668	641666	644666
	Frequency	3580.02	3624.99	3669.99
50	Channel	638334	641666	645000
	Frequency	3575.01	3624.99	3675
40	Channel	638000	641666	645332
	Frequency	3570	3624.99	3679.98
30	Channel	637668	641666	645666
	Frequency	3565.02	3624.99	3684.99
20	Channel	637334	641666	646000
	Frequency	3560.01	3624.99	3690

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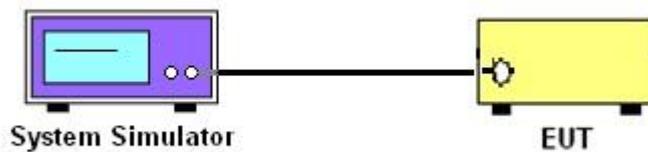Report Template No.: BU5-FGNR96 Version 2.4

3   Conducted Test Items
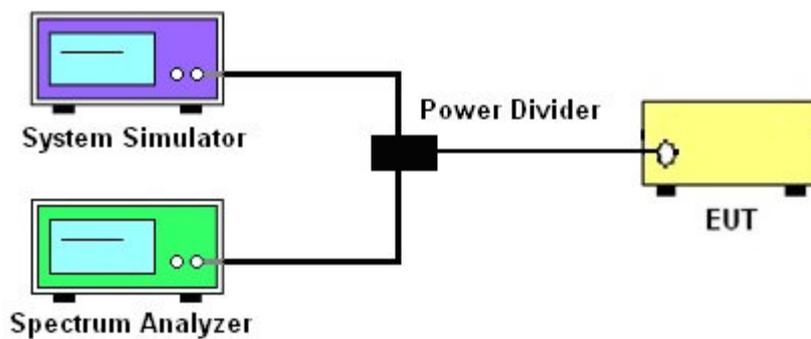
3.1   Measuring Instruments

See list of measuring instruments of this test report.
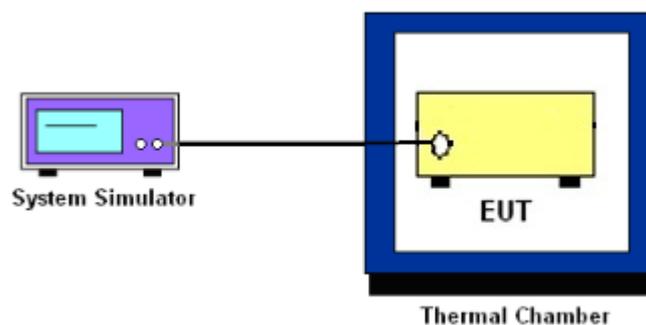
3.1.1 Test Setup

3.1.2 Conducted Output Power / ACLR

3.1.3 Occupied Bandwidth, Conducted Band-Edge and Conducted Spurious Emission

3.1.4 Frequency Stability

3.1.5 Test Result of Conducted Test

Please refer to Appendix A.

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3.2 Conducted Output Power

3.2.1 Description of the Conducted Output Power 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.

3.2.2 Test Procedures

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

3.3 EIRP

3.3.1 Description of the EIRP Measurement

EIRP limits for CBRS equipment as below table:

Device		Maximum EIRP (dBm/10 MHz)	Maximum PSD (dBm/MHz)
Applied	End User Device	23	n/a
☐	Category A CBSD	30	20
☐	Category B CBSD	47	37

Remark:

1. The worst case EIRP shown in this section is found with NR operating only using 1RB. As such, the EIRP/10MHz and full channel EIRP values will be identical since 1RB is fully contained within all available channel bandwidths for 5G NR (i.e. 10, 15, 20, 25MHz)

3.3.2 Test Procedures for EIRP

1. Establishing a communications link with the call box (Base station) to measure the Maximum conducted power, the parameters were set to force the EUT transmitting at maximum output power level. Use the average power measurement function to measure total channel power of each channel bandwidth (per ANSI C63.26-2015 Section 5.2.1)

2. Determining ERP and/or EIRP from conducted RF output power measurements (Per ANSI C63.26-2015 Section 5.2.5.5)

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

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3.4 Occupied Bandwidth

3.4.1 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.

3.4.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.4.3 (26dB) and Section 5.4.4 (99OB)

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. 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.
3. 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.
4. Set the detection mode to peak, and the trace mode to max hold.
5. 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)
6. Determine the "-26 dB down amplitude" as equal to (Reference Value – X).
7. 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.
8. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

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3.5 Conducted Band Edge

3.5.1 Description of Conducted Band Edge Measurement

Part 96.41 (e) (1) (ii)

For End User Devices the emission limits outside the fundamental are as follows:

Within 0 MHz to B MHz above and below the assigned channel ≤ −13 dBm/MHz

Greater than B MHz above and below the assigned channel ≤ −25 dBm/MHz

where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device.

Notwithstanding the emission limits in this paragraph, the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.

Part 96.41 (e) (2)

For CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed −25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed −40dBm/MHz

3.5.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.

2. The band edges of low and high channels for the highest RF powers were measured.

3. Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.

4. Beyond the 1 MHz band from the band edge, RBW=1MHz was used or a narrower RBW was used and the measured power was integrated over the full required measurement bandwidth of 1 MHz

5. Offset has included the duty factor. Duty factor =10 log (1/x), where x is the measured duty cycle.

6. Set spectrum analyzer with RMS detector.

7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

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3.6 Conducted Spurious Emission

3.6.1 Description of Conducted Spurious Emission Measurement

96.41 (e)(2)

The conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed −40dBm/MHz.

3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. 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.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
6. Set spectrum analyzer with RMS detector.
7. Taking the record of maximum spurious emission.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. The limit line is −40dBm/MHz.

3.7 Frequency Stability

3.7.1 Description of Frequency Stability Measurement

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

3.7.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.
1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. 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.
3. 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.

3.7.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.
1. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

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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
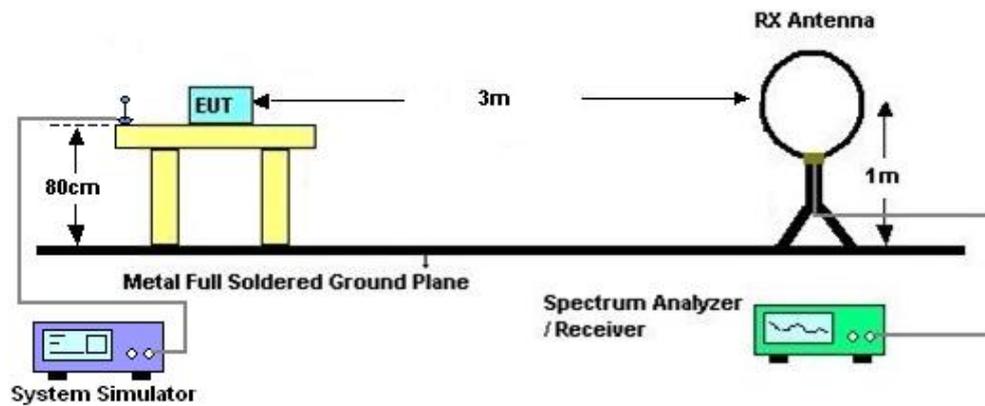
4.2.2 For radiated test from 30MHz to 1GHz

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 Measurement

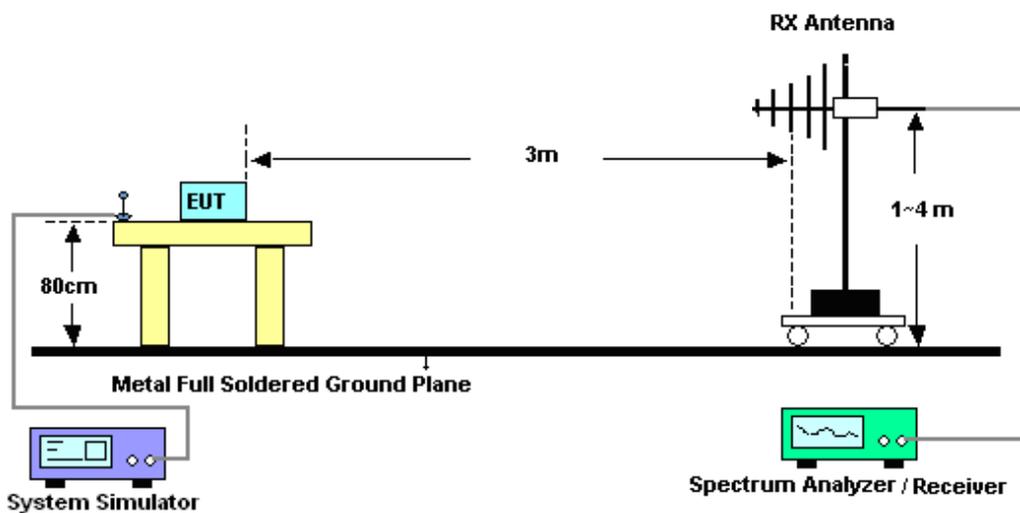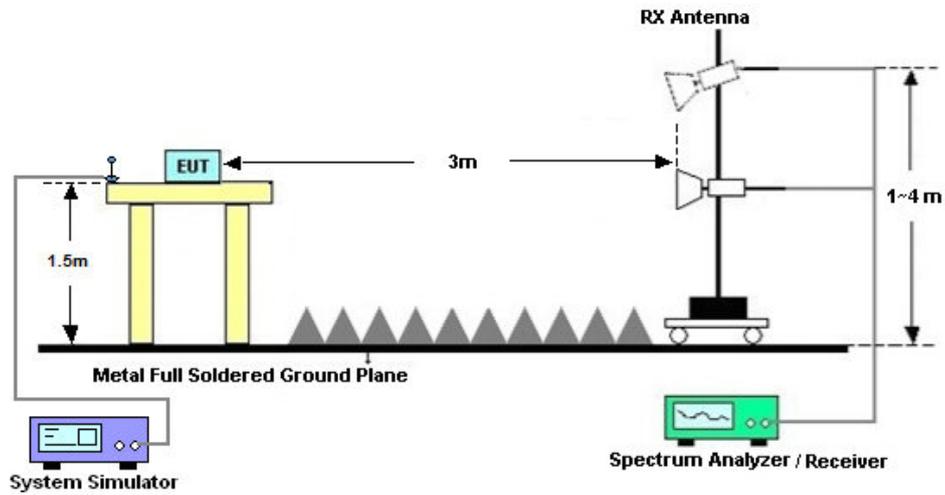The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least -40dBm / MHz.

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

4.4.2 Test Procedures

1. 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.
2. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
5. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
   Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
   EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
   ERP (dBm) = EIRP - 2.15
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
   The limit line is −40dBm/MHz

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 10, 2024	Jun. 08, 2025~ Jul. 04, 2025	Oct. 09, 2025	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Jun. 08, 2025~ Jul. 04, 2025	NCR	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150℃ 20%~95%RH	Jul. 04, 2024 / Jul. 03, 2025	Jun. 08, 2025~ Jul. 04, 2025	Jul. 03, 2025 / Jul. 02, 2026	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz-44G,MAX 30dB	Dec. 03, 2024	Jun. 12, 2025	Dec. 02, 2025	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 08, 2024	Jun. 12, 2025	Sep. 07, 2025	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Nov. 23, 2024	Jun. 12, 2025	Nov. 22, 2025	Radiation (03CH04-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00227860	1GHz~18GHz	Aug. 16, 2024	Jun. 12, 2025	Aug. 15, 2025	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101116	18GHz~40GHz	Oct. 22, 2024	Jun. 12, 2025	Oct. 21, 2025	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	380826	9KHz-1GHz	Jul. 03, 2024	Jun. 12, 2025	Jul. 02, 2025	Radiation (03CH04-KS)
Amplifier	EM	EM18G40GA	060852	18~40GHz	Jan. 03, 2025	Jun. 12, 2025	Jan. 02, 2026	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18GA	060840	1Ghz-18Ghz	Oct. 09, 2024	Jun. 12, 2025	Oct. 08, 2025	Radiation (03CH04-KS)
Amplifier	EM	EM01G18GA	060892	1Ghz-18Ghz	Oct. 09, 2024	Jun. 12, 2025	Oct. 08, 2025	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jun. 12, 2025	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jun. 12, 2025	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jun. 12, 2025	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required

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6   Measurement Uncertainty

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	±2.22 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.50 dB
Peak to Average Ratio	±0.50 dB
Frequency Stability	±0.04 ppm

Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.83 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.83 dB

Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

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

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Appendix A. Test Results of Conducted Test

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

Software Version: 23.06.1602

FR1 N78_ANT3

Transmitter Conducted Output Power And EIRP, $(G_T - L_C)$=-3.3dBi

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power (dBm)	EIRP(dBm)	EIRP(W)
78	30	20	637334	3560.01	DFT-s-OFDM PI/2 BPSK	25@12	20.95	17.65	0.0582
78	30	20	637334	3560.01	DFT-s-OFDM PI/2 BPSK	1@1	20.98	17.68	0.0586
78	30	20	637334	3560.01	DFT-s-OFDM PI/2 BPSK	1@49	20.81	17.51	0.0564
78	30	20	637334	3560.01	DFT-s-OFDM QPSK	25@12	21.00	17.70	0.0589
78	30	20	637334	3560.01	DFT-s-OFDM QPSK	1@1	21.05	17.75	0.0596
78	30	20	637334	3560.01	DFT-s-OFDM QPSK	1@49	20.79	17.49	0.0561
78	30	20	637334	3560.01	DFT-s-OFDM 16 QAM	25@12	20.02	16.72	0.0470
78	30	20	637334	3560.01	DFT-s-OFDM 16 QAM	1@1	20.20	16.90	0.0490
78	30	20	637334	3560.01	DFT-s-OFDM 16 QAM	1@49	20.02	16.72	0.0470
78	30	20	637334	3560.01	DFT-s-OFDM 64 QAM	25@12	18.45	15.15	0.0327
78	30	20	637334	3560.01	DFT-s-OFDM 64 QAM	1@1	18.39	15.09	0.0323
78	30	20	637334	3560.01	DFT-s-OFDM 64 QAM	1@49	18.22	14.92	0.0310
78	30	20	637334	3560.01	DFT-s-OFDM 256 QAM	25@12	16.49	13.19	0.0208
78	30	20	637334	3560.01	DFT-s-OFDM 256 QAM	1@1	16.44	13.14	0.0206
78	30	20	637334	3560.01	DFT-s-OFDM 256 QAM	1@49	16.24	12.94	0.0197
78	30	20	637334	3560.01	CP-OFDM QPSK	25@12	19.54	16.24	0.0421
78	30	20	637334	3560.01	CP-OFDM QPSK	1@1	19.48	16.18	0.0415
78	30	20	637334	3560.01	CP-OFDM QPSK	1@49	19.40	16.10	0.0407
78	30	20	637334	3560.01	CP-OFDM 16 QAM	25@12	19.02	15.72	0.0373
78	30	20	637334	3560.01	CP-OFDM 16 QAM	1@1	19.22	15.92	0.0391
78	30	20	637334	3560.01	CP-OFDM 16 QAM	1@49	19.04	15.74	0.0375
78	30	20	637334	3560.01	CP-OFDM 64 QAM	25@12	17.56	14.26	0.0267
78	30	20	637334	3560.01	CP-OFDM 64 QAM	1@1	17.51	14.21	0.0264
78	30	20	637334	3560.01	CP-OFDM 64 QAM	1@49	17.33	14.03	0.0253
78	30	20	637334	3560.01	CP-OFDM 256 QAM	25@12	14.54	11.24	0.0133
78	30	20	637334	3560.01	CP-OFDM 256 QAM	1@1	14.43	11.13	0.0130
78	30	20	637334	3560.01	CP-OFDM 256 QAM	1@49	14.29	10.99	0.0126

78	30	20	641666	3624.99	DFT-s-OFDM PI/2 BPSK	25@12	20.98	17.68	0.0586
78	30	20	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@1	20.93	17.63	0.0579
78	30	20	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@49	20.75	17.45	0.0556
78	30	20	641666	3624.99	DFT-s-OFDM QPSK	25@12	21.02	17.72	0.0592
78	30	20	641666	3624.99	DFT-s-OFDM QPSK	1@1	20.96	17.66	0.0583
78	30	20	641666	3624.99	DFT-s-OFDM QPSK	1@49	20.72	17.42	0.0552
78	30	20	641666	3624.99	DFT-s-OFDM 16 QAM	25@12	20.01	16.71	0.0469
78	30	20	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	20.19	16.89	0.0489
78	30	20	641666	3624.99	DFT-s-OFDM 16 QAM	1@49	19.95	16.65	0.0462
78	30	20	641666	3624.99	DFT-s-OFDM 64 QAM	25@12	18.42	15.12	0.0325
78	30	20	641666	3624.99	DFT-s-OFDM 64 QAM	1@1	18.33	15.03	0.0318
78	30	20	641666	3624.99	DFT-s-OFDM 64 QAM	1@49	18.17	14.87	0.0307
78	30	20	641666	3624.99	DFT-s-OFDM 256 QAM	25@12	16.46	13.16	0.0207
78	30	20	641666	3624.99	DFT-s-OFDM 256 QAM	1@1	16.39	13.09	0.0204
78	30	20	641666	3624.99	DFT-s-OFDM 256 QAM	1@49	16.19	12.89	0.0195
78	30	20	641666	3624.99	CP-OFDM QPSK	25@12	19.51	16.21	0.0418
78	30	20	641666	3624.99	CP-OFDM QPSK	1@1	19.47	16.17	0.0414
78	30	20	641666	3624.99	CP-OFDM QPSK	1@49	19.31	16.01	0.0399
78	30	20	641666	3624.99	CP-OFDM 16 QAM	25@12	19.03	15.73	0.0374
78	30	20	641666	3624.99	CP-OFDM 16 QAM	1@1	19.17	15.87	0.0386
78	30	20	641666	3624.99	CP-OFDM 16 QAM	1@49	19.02	15.72	0.0373
78	30	20	641666	3624.99	CP-OFDM 64 QAM	25@12	17.58	14.28	0.0268
78	30	20	641666	3624.99	CP-OFDM 64 QAM	1@1	17.51	14.21	0.0264
78	30	20	641666	3624.99	CP-OFDM 64 QAM	1@49	17.30	14.00	0.0251
78	30	20	641666	3624.99	CP-OFDM 256 QAM	25@12	14.51	11.21	0.0132
78	30	20	641666	3624.99	CP-OFDM 256 QAM	1@1	14.41	11.11	0.0129
78	30	20	641666	3624.99	CP-OFDM 256 QAM	1@49	14.22	10.92	0.0124
78	30	20	646000	3690	DFT-s-OFDM PI/2 BPSK	25@12	20.85	17.55	0.0569
78	30	20	646000	3690	DFT-s-OFDM PI/2 BPSK	1@1	20.69	17.39	0.0548
78	30	20	646000	3690	DFT-s-OFDM PI/2 BPSK	1@49	20.84	17.54	0.0568
78	30	20	646000	3690	DFT-s-OFDM QPSK	25@12	20.89	17.59	0.0574
78	30	20	646000	3690	DFT-s-OFDM QPSK	1@1	20.73	17.43	0.0553
78	30	20	646000	3690	DFT-s-OFDM QPSK	1@49	20.81	17.51	0.0564

78	30	20	646000	3690	DFT-s-OFDM 16 QAM	25@12	19.92	16.62	0.0459
78	30	20	646000	3690	DFT-s-OFDM 16 QAM	1@1	19.94	16.64	0.0461
78	30	20	646000	3690	DFT-s-OFDM 16 QAM	1@49	19.99	16.69	0.0467
78	30	20	646000	3690	DFT-s-OFDM 64 QAM	25@12	18.38	15.08	0.0322
78	30	20	646000	3690	DFT-s-OFDM 64 QAM	1@1	18.08	14.78	0.0301
78	30	20	646000	3690	DFT-s-OFDM 64 QAM	1@49	18.13	14.83	0.0304
78	30	20	646000	3690	DFT-s-OFDM 256 QAM	25@12	16.37	13.07	0.0203
78	30	20	646000	3690	DFT-s-OFDM 256 QAM	1@1	16.12	12.82	0.0191
78	30	20	646000	3690	DFT-s-OFDM 256 QAM	1@49	16.25	12.95	0.0197
78	30	20	646000	3690	CP-OFDM QPSK	25@12	19.42	16.12	0.0409
78	30	20	646000	3690	CP-OFDM QPSK	1@1	19.19	15.89	0.0388
78	30	20	646000	3690	CP-OFDM QPSK	1@49	19.36	16.06	0.0404
78	30	20	646000	3690	CP-OFDM 16 QAM	25@12	18.93	15.63	0.0366
78	30	20	646000	3690	CP-OFDM 16 QAM	1@1	18.95	15.65	0.0367
78	30	20	646000	3690	CP-OFDM 16 QAM	1@49	19.04	15.74	0.0375
78	30	20	646000	3690	CP-OFDM 64 QAM	25@12	17.40	14.10	0.0257
78	30	20	646000	3690	CP-OFDM 64 QAM	1@1	17.27	13.97	0.0249
78	30	20	646000	3690	CP-OFDM 64 QAM	1@49	17.38	14.08	0.0256
78	30	20	646000	3690	CP-OFDM 256 QAM	25@12	14.44	11.14	0.0130
78	30	20	646000	3690	CP-OFDM 256 QAM	1@1	14.15	10.85	0.0122
78	30	20	646000	3690	CP-OFDM 256 QAM	1@49	14.27	10.97	0.0125
78	30	30	637668	3565.02	DFT-s-OFDM PI/2 BPSK	36@18	21.03	17.73	0.0593
78	30	30	637668	3565.02	DFT-s-OFDM PI/2 BPSK	1@1	21.10	17.80	0.0603
78	30	30	637668	3565.02	DFT-s-OFDM PI/2 BPSK	1@76	20.80	17.50	0.0562
78	30	30	637668	3565.02	DFT-s-OFDM QPSK	36@18	21.02	17.72	0.0592
78	30	30	637668	3565.02	DFT-s-OFDM QPSK	1@1	21.10	17.80	0.0603
78	30	30	637668	3565.02	DFT-s-OFDM QPSK	1@76	20.79	17.49	0.0561
78	30	30	637668	3565.02	DFT-s-OFDM 16 QAM	36@18	20.03	16.73	0.0471
78	30	30	637668	3565.02	DFT-s-OFDM 16 QAM	1@1	20.37	17.07	0.0509
78	30	30	637668	3565.02	DFT-s-OFDM 16 QAM	1@76	19.99	16.69	0.0467
78	30	30	637668	3565.02	DFT-s-OFDM 64 QAM	36@18	18.53	15.23	0.0333
78	30	30	637668	3565.02	DFT-s-OFDM 64 QAM	1@1	18.45	15.15	0.0327
78	30	30	637668	3565.02	DFT-s-OFDM 64 QAM	1@76	18.14	14.84	0.0305

78	30	30	637668	3565.02	DFT-s-OFDM 256 QAM	36@18	16.46	13.16	0.0207
78	30	30	637668	3565.02	DFT-s-OFDM 256 QAM	1@1	16.47	13.17	0.0207
78	30	30	637668	3565.02	DFT-s-OFDM 256 QAM	1@76	16.20	12.90	0.0195
78	30	30	637668	3565.02	CP-OFDM QPSK	39@19	19.53	16.23	0.0420
78	30	30	637668	3565.02	CP-OFDM QPSK	1@1	19.65	16.35	0.0432
78	30	30	637668	3565.02	CP-OFDM QPSK	1@76	19.40	16.10	0.0407
78	30	30	637668	3565.02	CP-OFDM 16 QAM	39@19	19.04	15.74	0.0375
78	30	30	637668	3565.02	CP-OFDM 16 QAM	1@1	19.30	16.00	0.0398
78	30	30	637668	3565.02	CP-OFDM 16 QAM	1@76	19.11	15.81	0.0381
78	30	30	637668	3565.02	CP-OFDM 64 QAM	39@19	17.51	14.21	0.0264
78	30	30	637668	3565.02	CP-OFDM 64 QAM	1@1	17.63	14.33	0.0271
78	30	30	637668	3565.02	CP-OFDM 64 QAM	1@76	17.32	14.02	0.0252
78	30	30	637668	3565.02	CP-OFDM 256 QAM	39@19	14.50	11.20	0.0132
78	30	30	637668	3565.02	CP-OFDM 256 QAM	1@1	14.54	11.24	0.0133
78	30	30	637668	3565.02	CP-OFDM 256 QAM	1@76	14.25	10.95	0.0124
78	30	30	641666	3624.99	DFT-s-OFDM PI/2 BPSK	36@18	21.11	17.81	0.0604
78	30	30	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@1	21.09	17.79	0.0601
78	30	30	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@76	20.83	17.53	0.0566
78	30	30	641666	3624.99	DFT-s-OFDM QPSK	36@18	21.11	17.81	0.0604
78	30	30	641666	3624.99	DFT-s-OFDM QPSK	1@1	21.15	17.85	0.0610
78	30	30	641666	3624.99	DFT-s-OFDM QPSK	1@76	20.81	17.51	0.0564
78	30	30	641666	3624.99	DFT-s-OFDM 16 QAM	36@18	20.11	16.81	0.0480
78	30	30	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	20.38	17.08	0.0511
78	30	30	641666	3624.99	DFT-s-OFDM 16 QAM	1@76	20.11	16.81	0.0480
78	30	30	641666	3624.99	DFT-s-OFDM 64 QAM	36@18	18.67	15.37	0.0344
78	30	30	641666	3624.99	DFT-s-OFDM 64 QAM	1@1	18.47	15.17	0.0329
78	30	30	641666	3624.99	DFT-s-OFDM 64 QAM	1@76	18.17	14.87	0.0307
78	30	30	641666	3624.99	DFT-s-OFDM 256 QAM	36@18	16.61	13.31	0.0214
78	30	30	641666	3624.99	DFT-s-OFDM 256 QAM	1@1	16.50	13.20	0.0209
78	30	30	641666	3624.99	DFT-s-OFDM 256 QAM	1@76	16.24	12.94	0.0197
78	30	30	641666	3624.99	CP-OFDM QPSK	39@19	19.66	16.36	0.0433
78	30	30	641666	3624.99	CP-OFDM QPSK	1@1	19.62	16.32	0.0429
78	30	30	641666	3624.99	CP-OFDM QPSK	1@76	19.36	16.06	0.0404

78	30	30	641666	3624.99	CP-OFDM 16 QAM	39@19	19.12	15.82	0.0382
78	30	30	641666	3624.99	CP-OFDM 16 QAM	1@1	19.34	16.04	0.0402
78	30	30	641666	3624.99	CP-OFDM 16 QAM	1@76	19.17	15.87	0.0386
78	30	30	641666	3624.99	CP-OFDM 64 QAM	39@19	17.61	14.31	0.0270
78	30	30	641666	3624.99	CP-OFDM 64 QAM	1@1	17.66	14.36	0.0273
78	30	30	641666	3624.99	CP-OFDM 64 QAM	1@76	17.41	14.11	0.0258
78	30	30	641666	3624.99	CP-OFDM 256 QAM	39@19	14.57	11.27	0.0134
78	30	30	641666	3624.99	CP-OFDM 256 QAM	1@1	14.56	11.26	0.0134
78	30	30	641666	3624.99	CP-OFDM 256 QAM	1@76	14.29	10.99	0.0126
78	30	30	645666	3684.99	DFT-s-OFDM PI/2 BPSK	36@18	20.91	17.61	0.0577
78	30	30	645666	3684.99	DFT-s-OFDM PI/2 BPSK	1@1	20.82	17.52	0.0565
78	30	30	645666	3684.99	DFT-s-OFDM PI/2 BPSK	1@76	20.96	17.66	0.0583
78	30	30	645666	3684.99	DFT-s-OFDM QPSK	36@18	20.92	17.62	0.0578
78	30	30	645666	3684.99	DFT-s-OFDM QPSK	1@1	20.87	17.57	0.0571
78	30	30	645666	3684.99	DFT-s-OFDM QPSK	1@76	20.95	17.65	0.0582
78	30	30	645666	3684.99	DFT-s-OFDM 16 QAM	36@18	19.92	16.62	0.0459
78	30	30	645666	3684.99	DFT-s-OFDM 16 QAM	1@1	20.09	16.79	0.0478
78	30	30	645666	3684.99	DFT-s-OFDM 16 QAM	1@76	20.18	16.88	0.0488
78	30	30	645666	3684.99	DFT-s-OFDM 64 QAM	36@18	18.43	15.13	0.0326
78	30	30	645666	3684.99	DFT-s-OFDM 64 QAM	1@1	18.18	14.88	0.0308
78	30	30	645666	3684.99	DFT-s-OFDM 64 QAM	1@76	18.29	14.99	0.0316
78	30	30	645666	3684.99	DFT-s-OFDM 256 QAM	36@18	16.42	13.12	0.0205
78	30	30	645666	3684.99	DFT-s-OFDM 256 QAM	1@1	16.23	12.93	0.0196
78	30	30	645666	3684.99	DFT-s-OFDM 256 QAM	1@76	16.35	13.05	0.0202
78	30	30	645666	3684.99	CP-OFDM QPSK	39@19	19.46	16.16	0.0413
78	30	30	645666	3684.99	CP-OFDM QPSK	1@1	19.34	16.04	0.0402
78	30	30	645666	3684.99	CP-OFDM QPSK	1@76	19.40	16.10	0.0407
78	30	30	645666	3684.99	CP-OFDM 16 QAM	39@19	18.92	15.62	0.0365
78	30	30	645666	3684.99	CP-OFDM 16 QAM	1@1	19.10	15.80	0.0380
78	30	30	645666	3684.99	CP-OFDM 16 QAM	1@76	19.25	15.95	0.0394
78	30	30	645666	3684.99	CP-OFDM 64 QAM	39@19	17.44	14.14	0.0259
78	30	30	645666	3684.99	CP-OFDM 64 QAM	1@1	17.39	14.09	0.0256
78	30	30	645666	3684.99	CP-OFDM 64 QAM	1@76	17.47	14.17	0.0261

78	30	30	645666	3684.99	CP-OFDM 256 QAM	39@19	14.44	11.14	0.0130
78	30	30	645666	3684.99	CP-OFDM 256 QAM	1@1	14.28	10.98	0.0125
78	30	30	645666	3684.99	CP-OFDM 256 QAM	1@76	14.42	11.12	0.0129
78	30	40	638000	3570	DFT-s-OFDM PI/2 BPSK	50@25	20.99	17.69	0.0587
78	30	40	638000	3570	DFT-s-OFDM PI/2 BPSK	1@1	21.08	17.78	0.0600
78	30	40	638000	3570	DFT-s-OFDM PI/2 BPSK	1@104	20.81	17.51	0.0564
78	30	40	638000	3570	DFT-s-OFDM QPSK	50@25	20.96	17.66	0.0583
78	30	40	638000	3570	DFT-s-OFDM QPSK	1@1	21.14	17.84	0.0608
78	30	40	638000	3570	DFT-s-OFDM QPSK	1@104	20.80	17.50	0.0562
78	30	40	638000	3570	DFT-s-OFDM 16 QAM	50@25	19.98	16.68	0.0466
78	30	40	638000	3570	DFT-s-OFDM 16 QAM	1@1	20.31	17.01	0.0502
78	30	40	638000	3570	DFT-s-OFDM 16 QAM	1@104	20.02	16.72	0.0470
78	30	40	638000	3570	DFT-s-OFDM 64 QAM	50@25	18.55	15.25	0.0335
78	30	40	638000	3570	DFT-s-OFDM 64 QAM	1@1	18.42	15.12	0.0325
78	30	40	638000	3570	DFT-s-OFDM 64 QAM	1@104	18.14	14.84	0.0305
78	30	40	638000	3570	DFT-s-OFDM 256 QAM	50@25	16.47	13.17	0.0207
78	30	40	638000	3570	DFT-s-OFDM 256 QAM	1@1	16.51	13.21	0.0209
78	30	40	638000	3570	DFT-s-OFDM 256 QAM	1@104	16.21	12.91	0.0195
78	30	40	638000	3570	CP-OFDM QPSK	53@26	19.44	16.14	0.0411
78	30	40	638000	3570	CP-OFDM QPSK	1@1	19.58	16.28	0.0425
78	30	40	638000	3570	CP-OFDM QPSK	1@104	19.33	16.03	0.0401
78	30	40	638000	3570	CP-OFDM 16 QAM	53@26	18.96	15.66	0.0368
78	30	40	638000	3570	CP-OFDM 16 QAM	1@1	19.30	16.00	0.0398
78	30	40	638000	3570	CP-OFDM 16 QAM	1@104	19.10	15.80	0.0380
78	30	40	638000	3570	CP-OFDM 64 QAM	53@26	17.48	14.18	0.0262
78	30	40	638000	3570	CP-OFDM 64 QAM	1@1	17.62	14.32	0.0270
78	30	40	638000	3570	CP-OFDM 64 QAM	1@104	17.34	14.04	0.0254
78	30	40	638000	3570	CP-OFDM 256 QAM	53@26	14.50	11.20	0.0132
78	30	40	638000	3570	CP-OFDM 256 QAM	1@1	14.56	11.26	0.0134
78	30	40	638000	3570	CP-OFDM 256 QAM	1@104	14.25	10.95	0.0124
78	30	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	50@25	21.13	17.83	0.0607
78	30	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@1	21.07	17.77	0.0598
78	30	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@104	20.77	17.47	0.0558

78	30	40	641666	3624.99	DFT-s-OFDM QPSK	50@25	21.08	17.78	0.0600
78	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@1	21.08	17.78	0.0600
78	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@104	20.72	17.42	0.0552
78	30	40	641666	3624.99	DFT-s-OFDM 16 QAM	50@25	20.10	16.80	0.0479
78	30	40	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	20.29	16.99	0.0500
78	30	40	641666	3624.99	DFT-s-OFDM 16 QAM	1@104	19.98	16.68	0.0466
78	30	40	641666	3624.99	DFT-s-OFDM 64 QAM	50@25	18.63	15.33	0.0341
78	30	40	641666	3624.99	DFT-s-OFDM 64 QAM	1@1	18.40	15.10	0.0324
78	30	40	641666	3624.99	DFT-s-OFDM 64 QAM	1@104	18.09	14.79	0.0301
78	30	40	641666	3624.99	DFT-s-OFDM 256 QAM	50@25	16.61	13.31	0.0214
78	30	40	641666	3624.99	DFT-s-OFDM 256 QAM	1@1	16.47	13.17	0.0207
78	30	40	641666	3624.99	DFT-s-OFDM 256 QAM	1@104	16.17	12.87	0.0194
78	30	40	641666	3624.99	CP-OFDM QPSK	53@26	19.60	16.30	0.0427
78	30	40	641666	3624.99	CP-OFDM QPSK	1@1	19.58	16.28	0.0425
78	30	40	641666	3624.99	CP-OFDM QPSK	1@104	19.37	16.07	0.0405
78	30	40	641666	3624.99	CP-OFDM 16 QAM	53@26	19.10	15.80	0.0380
78	30	40	641666	3624.99	CP-OFDM 16 QAM	1@1	19.27	15.97	0.0395
78	30	40	641666	3624.99	CP-OFDM 16 QAM	1@104	19.06	15.76	0.0377
78	30	40	641666	3624.99	CP-OFDM 64 QAM	53@26	17.62	14.32	0.0270
78	30	40	641666	3624.99	CP-OFDM 64 QAM	1@1	17.62	14.32	0.0270
78	30	40	641666	3624.99	CP-OFDM 64 QAM	1@104	17.28	13.98	0.0250
78	30	40	641666	3624.99	CP-OFDM 256 QAM	53@26	14.62	11.32	0.0136
78	30	40	641666	3624.99	CP-OFDM 256 QAM	1@1	14.51	11.21	0.0132
78	30	40	641666	3624.99	CP-OFDM 256 QAM	1@104	14.20	10.90	0.0123
78	30	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	50@25	20.92	17.62	0.0578
78	30	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	1@1	20.83	17.53	0.0566
78	30	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	1@104	20.94	17.64	0.0581
78	30	40	645332	3679.98	DFT-s-OFDM QPSK	50@25	20.89	17.59	0.0574
78	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@1	20.88	17.58	0.0573
78	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@104	20.87	17.57	0.0571
78	30	40	645332	3679.98	DFT-s-OFDM 16 QAM	50@25	19.92	16.62	0.0459
78	30	40	645332	3679.98	DFT-s-OFDM 16 QAM	1@1	20.07	16.77	0.0475
78	30	40	645332	3679.98	DFT-s-OFDM 16 QAM	1@104	20.17	16.87	0.0486

78	30	40	645332	3679.98	DFT-s-OFDM 64 QAM	50@25	18.40	15.10	0.0324
78	30	40	645332	3679.98	DFT-s-OFDM 64 QAM	1@1	18.19	14.89	0.0308
78	30	40	645332	3679.98	DFT-s-OFDM 64 QAM	1@104	18.32	15.02	0.0318
78	30	40	645332	3679.98	DFT-s-OFDM 256 QAM	50@25	16.38	13.08	0.0203
78	30	40	645332	3679.98	DFT-s-OFDM 256 QAM	1@1	16.27	12.97	0.0198
78	30	40	645332	3679.98	DFT-s-OFDM 256 QAM	1@104	16.33	13.03	0.0201
78	30	40	645332	3679.98	CP-OFDM QPSK	53@26	19.36	16.06	0.0404
78	30	40	645332	3679.98	CP-OFDM QPSK	1@1	19.37	16.07	0.0405
78	30	40	645332	3679.98	CP-OFDM QPSK	1@104	19.47	16.17	0.0414
78	30	40	645332	3679.98	CP-OFDM 16 QAM	53@26	18.90	15.60	0.0363
78	30	40	645332	3679.98	CP-OFDM 16 QAM	1@1	19.05	15.75	0.0376
78	30	40	645332	3679.98	CP-OFDM 16 QAM	1@104	19.18	15.88	0.0387
78	30	40	645332	3679.98	CP-OFDM 64 QAM	53@26	17.40	14.10	0.0257
78	30	40	645332	3679.98	CP-OFDM 64 QAM	1@1	17.37	14.07	0.0255
78	30	40	645332	3679.98	CP-OFDM 64 QAM	1@104	17.44	14.14	0.0259
78	30	40	645332	3679.98	CP-OFDM 256 QAM	53@26	14.40	11.10	0.0129
78	30	40	645332	3679.98	CP-OFDM 256 QAM	1@1	14.26	10.96	0.0125
78	30	40	645332	3679.98	CP-OFDM 256 QAM	1@104	14.40	11.10	0.0129
78	30	50	638334	3575.01	DFT-s-OFDM PI/2 BPSK	64@32	20.95	17.65	0.0582
78	30	50	638334	3575.01	DFT-s-OFDM PI/2 BPSK	1@1	21.05	17.75	0.0596
78	30	50	638334	3575.01	DFT-s-OFDM PI/2 BPSK	1@131	20.79	17.49	0.0561
78	30	50	638334	3575.01	DFT-s-OFDM QPSK	64@32	20.97	17.67	0.0585
78	30	50	638334	3575.01	DFT-s-OFDM QPSK	1@1	21.12	17.82	0.0605
78	30	50	638334	3575.01	DFT-s-OFDM QPSK	1@131	20.74	17.44	0.0555
78	30	50	638334	3575.01	DFT-s-OFDM 16 QAM	64@32	19.95	16.65	0.0462
78	30	50	638334	3575.01	DFT-s-OFDM 16 QAM	1@1	20.29	16.99	0.0500
78	30	50	638334	3575.01	DFT-s-OFDM 16 QAM	1@131	20.03	16.73	0.0471
78	30	50	638334	3575.01	DFT-s-OFDM 64 QAM	64@32	18.48	15.18	0.0330
78	30	50	638334	3575.01	DFT-s-OFDM 64 QAM	1@1	18.43	15.13	0.0326
78	30	50	638334	3575.01	DFT-s-OFDM 64 QAM	1@131	18.19	14.89	0.0308
78	30	50	638334	3575.01	DFT-s-OFDM 256 QAM	64@32	16.47	13.17	0.0207
78	30	50	638334	3575.01	DFT-s-OFDM 256 QAM	1@1	16.47	13.17	0.0207
78	30	50	638334	3575.01	DFT-s-OFDM 256 QAM	1@131	16.20	12.90	0.0195

78	30	50	638334	3575.01	CP-OFDM QPSK	67@33	19.45	16.15	0.0412
78	30	50	638334	3575.01	CP-OFDM QPSK	1@1	19.63	16.33	0.0430
78	30	50	638334	3575.01	CP-OFDM QPSK	1@131	19.36	16.06	0.0404
78	30	50	638334	3575.01	CP-OFDM 16 QAM	67@33	18.95	15.65	0.0367
78	30	50	638334	3575.01	CP-OFDM 16 QAM	1@1	19.27	15.97	0.0395
78	30	50	638334	3575.01	CP-OFDM 16 QAM	1@131	19.03	15.73	0.0374
78	30	50	638334	3575.01	CP-OFDM 64 QAM	67@33	17.47	14.17	0.0261
78	30	50	638334	3575.01	CP-OFDM 64 QAM	1@1	17.61	14.31	0.0270
78	30	50	638334	3575.01	CP-OFDM 64 QAM	1@131	17.33	14.03	0.0253
78	30	50	638334	3575.01	CP-OFDM 256 QAM	67@33	14.47	11.17	0.0131
78	30	50	638334	3575.01	CP-OFDM 256 QAM	1@1	14.59	11.29	0.0135
78	30	50	638334	3575.01	CP-OFDM 256 QAM	1@131	14.26	10.96	0.0125
78	30	50	641666	3624.99	DFT-s-OFDM PI/2 BPSK	64@32	21.11	17.81	0.0604
78	30	50	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@1	20.99	17.69	0.0587
78	30	50	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@131	20.76	17.46	0.0557
78	30	50	641666	3624.99	DFT-s-OFDM QPSK	64@32	21.13	17.83	0.0607
78	30	50	641666	3624.99	DFT-s-OFDM QPSK	1@1	21.03	17.73	0.0593
78	30	50	641666	3624.99	DFT-s-OFDM QPSK	1@131	20.75	17.45	0.0556
78	30	50	641666	3624.99	DFT-s-OFDM 16 QAM	64@32	20.09	16.79	0.0478
78	30	50	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	20.27	16.97	0.0498
78	30	50	641666	3624.99	DFT-s-OFDM 16 QAM	1@131	20.01	16.71	0.0469
78	30	50	641666	3624.99	DFT-s-OFDM 64 QAM	64@32	18.62	15.32	0.0340
78	30	50	641666	3624.99	DFT-s-OFDM 64 QAM	1@1	18.39	15.09	0.0323
78	30	50	641666	3624.99	DFT-s-OFDM 64 QAM	1@131	18.11	14.81	0.0303
78	30	50	641666	3624.99	DFT-s-OFDM 256 QAM	64@32	16.59	13.29	0.0213
78	30	50	641666	3624.99	DFT-s-OFDM 256 QAM	1@1	16.41	13.11	0.0205
78	30	50	641666	3624.99	DFT-s-OFDM 256 QAM	1@131	16.18	12.88	0.0194
78	30	50	641666	3624.99	CP-OFDM QPSK	67@33	19.59	16.29	0.0426
78	30	50	641666	3624.99	CP-OFDM QPSK	1@1	19.53	16.23	0.0420
78	30	50	641666	3624.99	CP-OFDM QPSK	1@131	19.38	16.08	0.0406
78	30	50	641666	3624.99	CP-OFDM 16 QAM	67@33	19.08	15.78	0.0378
78	30	50	641666	3624.99	CP-OFDM 16 QAM	1@1	19.26	15.96	0.0394
78	30	50	641666	3624.99	CP-OFDM 16 QAM	1@131	18.99	15.69	0.0371

78	30	50	641666	3624.99	CP-OFDM 64 QAM	67@33	17.64	14.34	0.0272
78	30	50	641666	3624.99	CP-OFDM 64 QAM	1@1	17.57	14.27	0.0267
78	30	50	641666	3624.99	CP-OFDM 64 QAM	1@131	17.29	13.99	0.0251
78	30	50	641666	3624.99	CP-OFDM 256 QAM	67@33	14.60	11.30	0.0135
78	30	50	641666	3624.99	CP-OFDM 256 QAM	1@1	14.48	11.18	0.0131
78	30	50	641666	3624.99	CP-OFDM 256 QAM	1@131	14.23	10.93	0.0124
78	30	50	645000	3675	DFT-s-OFDM PI/2 BPSK	64@32	20.90	17.60	0.0575
78	30	50	645000	3675	DFT-s-OFDM PI/2 BPSK	1@1	20.85	17.55	0.0569
78	30	50	645000	3675	DFT-s-OFDM PI/2 BPSK	1@131	20.89	17.59	0.0574
78	30	50	645000	3675	DFT-s-OFDM QPSK	64@32	20.92	17.62	0.0578
78	30	50	645000	3675	DFT-s-OFDM QPSK	1@1	20.86	17.56	0.0570
78	30	50	645000	3675	DFT-s-OFDM QPSK	1@131	20.87	17.57	0.0571
78	30	50	645000	3675	DFT-s-OFDM 16 QAM	64@32	19.90	16.60	0.0457
78	30	50	645000	3675	DFT-s-OFDM 16 QAM	1@1	20.09	16.79	0.0478
78	30	50	645000	3675	DFT-s-OFDM 16 QAM	1@131	20.11	16.81	0.0480
78	30	50	645000	3675	DFT-s-OFDM 64 QAM	64@32	11.97	8.67	0.0074
78	30	50	645000	3675	DFT-s-OFDM 64 QAM	1@1	11.62	8.32	0.0068
78	30	50	645000	3675	DFT-s-OFDM 64 QAM	1@131	10.24	6.94	0.0049
78	30	50	645000	3675	DFT-s-OFDM 256 QAM	64@32	10.55	7.25	0.0053
78	30	50	645000	3675	DFT-s-OFDM 256 QAM	1@1	10.12	6.82	0.0048
78	30	50	645000	3675	DFT-s-OFDM 256 QAM	1@131	10.06	6.76	0.0047
78	30	50	645000	3675	CP-OFDM QPSK	67@33	17.88	14.58	0.0287
78	30	50	645000	3675	CP-OFDM QPSK	1@1	19.31	16.01	0.0399
78	30	50	645000	3675	CP-OFDM QPSK	1@131	19.41	16.11	0.0408
78	30	50	645000	3675	CP-OFDM 16 QAM	67@33	18.88	15.58	0.0361
78	30	50	645000	3675	CP-OFDM 16 QAM	1@1	19.09	15.79	0.0379
78	30	50	645000	3675	CP-OFDM 16 QAM	1@131	19.12	15.82	0.0382
78	30	50	645000	3675	CP-OFDM 64 QAM	67@33	17.41	14.11	0.0258
78	30	50	645000	3675	CP-OFDM 64 QAM	1@1	17.39	14.09	0.0256
78	30	50	645000	3675	CP-OFDM 64 QAM	1@131	17.42	14.12	0.0258
78	30	50	645000	3675	CP-OFDM 256 QAM	67@33	14.38	11.08	0.0128
78	30	50	645000	3675	CP-OFDM 256 QAM	1@1	14.30	11.00	0.0126
78	30	50	645000	3675	CP-OFDM 256 QAM	1@131	14.38	11.08	0.0128

78	30	60	638668	3580.02	DFT-s-OFDM PI/2 BPSK	81@40	20.97	17.67	0.0585
78	30	60	638668	3580.02	DFT-s-OFDM PI/2 BPSK	1@1	21.11	17.81	0.0604
78	30	60	638668	3580.02	DFT-s-OFDM PI/2 BPSK	1@160	20.91	17.61	0.0577
78	30	60	638668	3580.02	DFT-s-OFDM QPSK	81@40	20.92	17.62	0.0578
78	30	60	638668	3580.02	DFT-s-OFDM QPSK	1@1	21.19	17.89	0.0615
78	30	60	638668	3580.02	DFT-s-OFDM QPSK	1@160	20.90	17.60	0.0575
78	30	60	638668	3580.02	DFT-s-OFDM 16 QAM	81@40	19.93	16.63	0.0460
78	30	60	638668	3580.02	DFT-s-OFDM 16 QAM	1@1	20.36	17.06	0.0508
78	30	60	638668	3580.02	DFT-s-OFDM 16 QAM	1@160	20.14	16.84	0.0483
78	30	60	638668	3580.02	DFT-s-OFDM 64 QAM	81@40	18.45	15.15	0.0327
78	30	60	638668	3580.02	DFT-s-OFDM 64 QAM	1@1	18.54	15.24	0.0334
78	30	60	638668	3580.02	DFT-s-OFDM 64 QAM	1@160	18.33	15.03	0.0318
78	30	60	638668	3580.02	DFT-s-OFDM 256 QAM	81@40	16.42	13.12	0.0205
78	30	60	638668	3580.02	DFT-s-OFDM 256 QAM	1@1	16.54	13.24	0.0211
78	30	60	638668	3580.02	DFT-s-OFDM 256 QAM	1@160	16.33	13.03	0.0201
78	30	60	638668	3580.02	CP-OFDM QPSK	81@40	19.40	16.10	0.0407
78	30	60	638668	3580.02	CP-OFDM QPSK	1@1	19.68	16.38	0.0435
78	30	60	638668	3580.02	CP-OFDM QPSK	1@160	19.50	16.20	0.0417
78	30	60	638668	3580.02	CP-OFDM 16 QAM	81@40	18.93	15.63	0.0366
78	30	60	638668	3580.02	CP-OFDM 16 QAM	1@1	19.34	16.04	0.0402
78	30	60	638668	3580.02	CP-OFDM 16 QAM	1@160	19.12	15.82	0.0382
78	30	60	638668	3580.02	CP-OFDM 64 QAM	81@40	17.39	14.09	0.0256
78	30	60	638668	3580.02	CP-OFDM 64 QAM	1@1	17.66	14.36	0.0273
78	30	60	638668	3580.02	CP-OFDM 64 QAM	1@160	17.46	14.16	0.0261
78	30	60	638668	3580.02	CP-OFDM 256 QAM	81@40	14.39	11.09	0.0129
78	30	60	638668	3580.02	CP-OFDM 256 QAM	1@1	14.57	11.27	0.0134
78	30	60	638668	3580.02	CP-OFDM 256 QAM	1@160	14.41	11.11	0.0129
78	30	60	641666	3624.99	DFT-s-OFDM PI/2 BPSK	81@40	21.01	17.71	0.0590
78	30	60	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@1	21.03	17.73	0.0593
78	30	60	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@160	20.72	17.42	0.0552
78	30	60	641666	3624.99	DFT-s-OFDM QPSK	81@40	21.04	17.74	0.0594
78	30	60	641666	3624.99	DFT-s-OFDM QPSK	1@1	21.10	17.80	0.0603
78	30	60	641666	3624.99	DFT-s-OFDM QPSK	1@160	20.73	17.43	0.0553

78	30	60	641666	3624.99	DFT-s-OFDM 16 QAM	81@40	20.07	16.77	0.0475
78	30	60	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	20.30	17.00	0.0501
78	30	60	641666	3624.99	DFT-s-OFDM 16 QAM	1@160	19.98	16.68	0.0466
78	30	60	641666	3624.99	DFT-s-OFDM 64 QAM	81@40	18.58	15.28	0.0337
78	30	60	641666	3624.99	DFT-s-OFDM 64 QAM	1@1	18.43	15.13	0.0326
78	30	60	641666	3624.99	DFT-s-OFDM 64 QAM	1@160	18.15	14.85	0.0305
78	30	60	641666	3624.99	DFT-s-OFDM 256 QAM	81@40	16.54	13.24	0.0211
78	30	60	641666	3624.99	DFT-s-OFDM 256 QAM	1@1	16.44	13.14	0.0206
78	30	60	641666	3624.99	DFT-s-OFDM 256 QAM	1@160	16.15	12.85	0.0193
78	30	60	641666	3624.99	CP-OFDM QPSK	81@40	19.53	16.23	0.0420
78	30	60	641666	3624.99	CP-OFDM QPSK	1@1	19.51	16.21	0.0418
78	30	60	641666	3624.99	CP-OFDM QPSK	1@160	19.35	16.05	0.0403
78	30	60	641666	3624.99	CP-OFDM 16 QAM	81@40	19.07	15.77	0.0378
78	30	60	641666	3624.99	CP-OFDM 16 QAM	1@1	19.28	15.98	0.0396
78	30	60	641666	3624.99	CP-OFDM 16 QAM	1@160	18.98	15.68	0.0370
78	30	60	641666	3624.99	CP-OFDM 64 QAM	81@40	17.54	14.24	0.0265
78	30	60	641666	3624.99	CP-OFDM 64 QAM	1@1	17.56	14.26	0.0267
78	30	60	641666	3624.99	CP-OFDM 64 QAM	1@160	17.26	13.96	0.0249
78	30	60	641666	3624.99	CP-OFDM 256 QAM	81@40	14.50	11.20	0.0132
78	30	60	641666	3624.99	CP-OFDM 256 QAM	1@1	14.51	11.21	0.0132
78	30	60	641666	3624.99	CP-OFDM 256 QAM	1@160	14.20	10.90	0.0123
78	30	60	644666	3669.99	DFT-s-OFDM PI/2 BPSK	81@40	20.83	17.53	0.0566
78	30	60	644666	3669.99	DFT-s-OFDM PI/2 BPSK	1@1	20.92	17.62	0.0578
78	30	60	644666	3669.99	DFT-s-OFDM PI/2 BPSK	1@160	20.91	17.61	0.0577
78	30	60	644666	3669.99	DFT-s-OFDM QPSK	81@40	20.84	17.54	0.0568
78	30	60	644666	3669.99	DFT-s-OFDM QPSK	1@1	20.89	17.59	0.0574
78	30	60	644666	3669.99	DFT-s-OFDM QPSK	1@160	20.88	17.58	0.0573
78	30	60	644666	3669.99	DFT-s-OFDM 16 QAM	81@40	19.85	16.55	0.0452
78	30	60	644666	3669.99	DFT-s-OFDM 16 QAM	1@1	20.16	16.86	0.0485
78	30	60	644666	3669.99	DFT-s-OFDM 16 QAM	1@160	20.16	16.86	0.0485
78	30	60	644666	3669.99	DFT-s-OFDM 64 QAM	81@40	18.38	15.08	0.0322
78	30	60	644666	3669.99	DFT-s-OFDM 64 QAM	1@1	18.26	14.96	0.0313
78	30	60	644666	3669.99	DFT-s-OFDM 64 QAM	1@160	18.34	15.04	0.0319

78	30	60	644666	3669.99	DFT-s-OFDM 256 QAM	81@40	16.30	13.00	0.0200
78	30	60	644666	3669.99	DFT-s-OFDM 256 QAM	1@1	16.28	12.98	0.0199
78	30	60	644666	3669.99	DFT-s-OFDM 256 QAM	1@160	16.30	13.00	0.0200
78	30	60	644666	3669.99	CP-OFDM QPSK	81@40	19.32	16.02	0.0400
78	30	60	644666	3669.99	CP-OFDM QPSK	1@1	19.42	16.12	0.0409
78	30	60	644666	3669.99	CP-OFDM QPSK	1@160	19.43	16.13	0.0410
78	30	60	644666	3669.99	CP-OFDM 16 QAM	81@40	18.85	15.55	0.0359
78	30	60	644666	3669.99	CP-OFDM 16 QAM	1@1	19.14	15.84	0.0384
78	30	60	644666	3669.99	CP-OFDM 16 QAM	1@160	19.14	15.84	0.0384
78	30	60	644666	3669.99	CP-OFDM 64 QAM	81@40	17.34	14.04	0.0254
78	30	60	644666	3669.99	CP-OFDM 64 QAM	1@1	17.42	14.12	0.0258
78	30	60	644666	3669.99	CP-OFDM 64 QAM	1@160	17.46	14.16	0.0261
78	30	60	644666	3669.99	CP-OFDM 256 QAM	81@40	14.28	10.98	0.0125
78	30	60	644666	3669.99	CP-OFDM 256 QAM	1@1	14.35	11.05	0.0127
78	30	60	644666	3669.99	CP-OFDM 256 QAM	1@160	14.38	11.08	0.0128
78	30	70	639000	3585	DFT-s-OFDM PI/2 BPSK	90@45	21.03	17.73	0.0593
78	30	70	639000	3585	DFT-s-OFDM PI/2 BPSK	1@1	21.22	17.92	0.0619
78	30	70	639000	3585	DFT-s-OFDM PI/2 BPSK	1@187	21.04	17.74	0.0594
78	30	70	639000	3585	DFT-s-OFDM QPSK	90@45	21.03	17.73	0.0593
78	30	70	639000	3585	DFT-s-OFDM QPSK	1@1	21.23	17.93	0.0621
78	30	70	639000	3585	DFT-s-OFDM QPSK	1@187	20.96	17.66	0.0583
78	30	70	639000	3585	DFT-s-OFDM 16 QAM	90@45	20.06	16.76	0.0474
78	30	70	639000	3585	DFT-s-OFDM 16 QAM	1@1	20.46	17.16	0.0520
78	30	70	639000	3585	DFT-s-OFDM 16 QAM	1@187	20.22	16.92	0.0492
78	30	70	639000	3585	DFT-s-OFDM 64 QAM	90@45	18.55	15.25	0.0335
78	30	70	639000	3585	DFT-s-OFDM 64 QAM	1@1	18.65	15.35	0.0343
78	30	70	639000	3585	DFT-s-OFDM 64 QAM	1@187	18.36	15.06	0.0321
78	30	70	639000	3585	DFT-s-OFDM 256 QAM	90@45	16.56	13.26	0.0212
78	30	70	639000	3585	DFT-s-OFDM 256 QAM	1@1	16.61	13.31	0.0214
78	30	70	639000	3585	DFT-s-OFDM 256 QAM	1@187	16.41	13.11	0.0205
78	30	70	639000	3585	CP-OFDM QPSK	95@47	19.52	16.22	0.0419
78	30	70	639000	3585	CP-OFDM QPSK	1@1	19.79	16.49	0.0446
78	30	70	639000	3585	CP-OFDM QPSK	1@187	19.58	16.28	0.0425

78	30	70	639000	3585	CP-OFDM 16 QAM	95@47	19.05	15.75	0.0376
78	30	70	639000	3585	CP-OFDM 16 QAM	1@1	19.46	16.16	0.0413
78	30	70	639000	3585	CP-OFDM 16 QAM	1@187	19.29	15.99	0.0397
78	30	70	639000	3585	CP-OFDM 64 QAM	95@47	17.53	14.23	0.0265
78	30	70	639000	3585	CP-OFDM 64 QAM	1@1	17.74	14.44	0.0278
78	30	70	639000	3585	CP-OFDM 64 QAM	1@187	17.58	14.28	0.0268
78	30	70	639000	3585	CP-OFDM 256 QAM	95@47	14.52	11.22	0.0132
78	30	70	639000	3585	CP-OFDM 256 QAM	1@1	14.67	11.37	0.0137
78	30	70	639000	3585	CP-OFDM 256 QAM	1@187	14.49	11.19	0.0132
78	30	70	641666	3624.99	DFT-s-OFDM PI/2 BPSK	90@45	21.20	17.90	0.0617
78	30	70	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@1	21.08	17.78	0.0600
78	30	70	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@187	20.72	17.42	0.0552
78	30	70	641666	3624.99	DFT-s-OFDM QPSK	90@45	21.22	17.92	0.0619
78	30	70	641666	3624.99	DFT-s-OFDM QPSK	1@1	21.09	17.79	0.0601
78	30	70	641666	3624.99	DFT-s-OFDM QPSK	1@187	20.68	17.38	0.0547
78	30	70	641666	3624.99	DFT-s-OFDM 16 QAM	90@45	20.25	16.95	0.0495
78	30	70	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	20.32	17.02	0.0504
78	30	70	641666	3624.99	DFT-s-OFDM 16 QAM	1@187	19.92	16.62	0.0459
78	30	70	641666	3624.99	DFT-s-OFDM 64 QAM	90@45	18.70	15.40	0.0347
78	30	70	641666	3624.99	DFT-s-OFDM 64 QAM	1@1	18.43	15.13	0.0326
78	30	70	641666	3624.99	DFT-s-OFDM 64 QAM	1@187	18.11	14.81	0.0303
78	30	70	641666	3624.99	DFT-s-OFDM 256 QAM	90@45	16.72	13.42	0.0220
78	30	70	641666	3624.99	DFT-s-OFDM 256 QAM	1@1	16.52	13.22	0.0210
78	30	70	641666	3624.99	DFT-s-OFDM 256 QAM	1@187	16.11	12.81	0.0191
78	30	70	641666	3624.99	CP-OFDM QPSK	95@47	19.69	16.39	0.0436
78	30	70	641666	3624.99	CP-OFDM QPSK	1@1	19.60	16.30	0.0427
78	30	70	641666	3624.99	CP-OFDM QPSK	1@187	19.32	16.02	0.0400
78	30	70	641666	3624.99	CP-OFDM 16 QAM	95@47	19.21	15.91	0.0390
78	30	70	641666	3624.99	CP-OFDM 16 QAM	1@1	19.32	16.02	0.0400
78	30	70	641666	3624.99	CP-OFDM 16 QAM	1@187	18.97	15.67	0.0369
78	30	70	641666	3624.99	CP-OFDM 64 QAM	95@47	17.68	14.38	0.0274
78	30	70	641666	3624.99	CP-OFDM 64 QAM	1@1	17.60	14.30	0.0269
78	30	70	641666	3624.99	CP-OFDM 64 QAM	1@187	17.22	13.92	0.0247

78	30	70	641666	3624.99	CP-OFDM 256 QAM	95@47	14.68	11.38	0.0137
78	30	70	641666	3624.99	CP-OFDM 256 QAM	1@1	14.50	11.20	0.0132
78	30	70	641666	3624.99	CP-OFDM 256 QAM	1@187	14.16	10.86	0.0122
78	30	70	644332	3664.98	DFT-s-OFDM PI/2 BPSK	90@45	20.92	17.62	0.0578
78	30	70	644332	3664.98	DFT-s-OFDM PI/2 BPSK	1@1	21.19	17.89	0.0615
78	30	70	644332	3664.98	DFT-s-OFDM PI/2 BPSK	1@187	20.86	17.56	0.0570
78	30	70	644332	3664.98	DFT-s-OFDM QPSK	90@45	20.92	17.62	0.0578
78	30	70	644332	3664.98	DFT-s-OFDM QPSK	1@1	21.19	17.89	0.0615
78	30	70	644332	3664.98	DFT-s-OFDM QPSK	1@187	20.81	17.51	0.0564
78	30	70	644332	3664.98	DFT-s-OFDM 16 QAM	90@45	19.97	16.67	0.0465
78	30	70	644332	3664.98	DFT-s-OFDM 16 QAM	1@1	20.40	17.10	0.0513
78	30	70	644332	3664.98	DFT-s-OFDM 16 QAM	1@187	20.06	16.76	0.0474
78	30	70	644332	3664.98	DFT-s-OFDM 64 QAM	90@45	18.45	15.15	0.0327
78	30	70	644332	3664.98	DFT-s-OFDM 64 QAM	1@1	18.55	15.25	0.0335
78	30	70	644332	3664.98	DFT-s-OFDM 64 QAM	1@187	18.26	14.96	0.0313
78	30	70	644332	3664.98	DFT-s-OFDM 256 QAM	90@45	16.46	13.16	0.0207
78	30	70	644332	3664.98	DFT-s-OFDM 256 QAM	1@1	16.54	13.24	0.0211
78	30	70	644332	3664.98	DFT-s-OFDM 256 QAM	1@187	16.24	12.94	0.0197
78	30	70	644332	3664.98	CP-OFDM QPSK	95@47	19.41	16.11	0.0408
78	30	70	644332	3664.98	CP-OFDM QPSK	1@1	19.68	16.38	0.0435
78	30	70	644332	3664.98	CP-OFDM QPSK	1@187	19.49	16.19	0.0416
78	30	70	644332	3664.98	CP-OFDM 16 QAM	95@47	18.92	15.62	0.0365
78	30	70	644332	3664.98	CP-OFDM 16 QAM	1@1	19.44	16.14	0.0411
78	30	70	644332	3664.98	CP-OFDM 16 QAM	1@187	19.14	15.84	0.0384
78	30	70	644332	3664.98	CP-OFDM 64 QAM	95@47	17.44	14.14	0.0259
78	30	70	644332	3664.98	CP-OFDM 64 QAM	1@1	17.65	14.35	0.0272
78	30	70	644332	3664.98	CP-OFDM 64 QAM	1@187	17.40	14.10	0.0257
78	30	70	644332	3664.98	CP-OFDM 256 QAM	95@47	14.44	11.14	0.0130
78	30	70	644332	3664.98	CP-OFDM 256 QAM	1@1	14.61	11.31	0.0135
78	30	70	644332	3664.98	CP-OFDM 256 QAM	1@187	14.33	11.03	0.0127
78	30	80	639334	3590.01	DFT-s-OFDM PI/2 BPSK	108@54	21.07	17.77	0.0598
78	30	80	639334	3590.01	DFT-s-OFDM PI/2 BPSK	1@1	21.31	18.01	0.0632
78	30	80	639334	3590.01	DFT-s-OFDM PI/2 BPSK	1@215	20.97	17.67	0.0585

78	30	80	639334	3590.01	DFT-s-OFDM QPSK	108@54	21.08	17.78	0.0600
78	30	80	639334	3590.01	DFT-s-OFDM QPSK	1@1	21.27	17.97	0.0627
78	30	80	639334	3590.01	DFT-s-OFDM QPSK	1@215	20.92	17.62	0.0578
78	30	80	639334	3590.01	DFT-s-OFDM 16 QAM	108@54	20.08	16.78	0.0476
78	30	80	639334	3590.01	DFT-s-OFDM 16 QAM	1@1	20.51	17.21	0.0526
78	30	80	639334	3590.01	DFT-s-OFDM 16 QAM	1@215	20.13	16.83	0.0482
78	30	80	639334	3590.01	DFT-s-OFDM 64 QAM	108@54	18.59	15.29	0.0338
78	30	80	639334	3590.01	DFT-s-OFDM 64 QAM	1@1	18.66	15.36	0.0344
78	30	80	639334	3590.01	DFT-s-OFDM 64 QAM	1@215	18.30	15.00	0.0316
78	30	80	639334	3590.01	DFT-s-OFDM 256 QAM	108@54	16.60	13.30	0.0214
78	30	80	639334	3590.01	DFT-s-OFDM 256 QAM	1@1	16.66	13.36	0.0217
78	30	80	639334	3590.01	DFT-s-OFDM 256 QAM	1@215	16.34	13.04	0.0201
78	30	80	639334	3590.01	CP-OFDM QPSK	109@54	19.53	16.23	0.0420
78	30	80	639334	3590.01	CP-OFDM QPSK	1@1	19.72	16.42	0.0439
78	30	80	639334	3590.01	CP-OFDM QPSK	1@215	19.54	16.24	0.0421
78	30	80	639334	3590.01	CP-OFDM 16 QAM	109@54	19.53	16.23	0.0420
78	30	80	639334	3590.01	CP-OFDM 16 QAM	1@1	19.50	16.20	0.0417
78	30	80	639334	3590.01	CP-OFDM 16 QAM	1@215	19.16	15.86	0.0385
78	30	80	639334	3590.01	CP-OFDM 64 QAM	109@54	17.53	14.23	0.0265
78	30	80	639334	3590.01	CP-OFDM 64 QAM	1@1	17.81	14.51	0.0282
78	30	80	639334	3590.01	CP-OFDM 64 QAM	1@215	17.44	14.14	0.0259
78	30	80	639334	3590.01	CP-OFDM 256 QAM	109@54	14.59	11.29	0.0135
78	30	80	639334	3590.01	CP-OFDM 256 QAM	1@1	14.69	11.39	0.0138
78	30	80	639334	3590.01	CP-OFDM 256 QAM	1@215	14.43	11.13	0.0130
78	30	80	641666	3624.99	DFT-s-OFDM PI/2 BPSK	108@54	21.19	17.89	0.0615
78	30	80	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@1	21.13	17.83	0.0607
78	30	80	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@215	20.70	17.40	0.0550
78	30	80	641666	3624.99	DFT-s-OFDM QPSK	108@54	21.18	17.88	0.0614
78	30	80	641666	3624.99	DFT-s-OFDM QPSK	1@1	21.10	17.80	0.0603
78	30	80	641666	3624.99	DFT-s-OFDM QPSK	1@215	20.70	17.40	0.0550
78	30	80	641666	3624.99	DFT-s-OFDM 16 QAM	108@54	20.22	16.92	0.0492
78	30	80	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	20.33	17.03	0.0505
78	30	80	641666	3624.99	DFT-s-OFDM 16 QAM	1@215	19.97	16.67	0.0465

78	30	80	641666	3624.99	DFT-s-OFDM 64 QAM	108@54	18.69	15.39	0.0346
78	30	80	641666	3624.99	DFT-s-OFDM 64 QAM	1@1	18.52	15.22	0.0333
78	30	80	641666	3624.99	DFT-s-OFDM 64 QAM	1@215	18.10	14.80	0.0302
78	30	80	641666	3624.99	DFT-s-OFDM 256 QAM	108@54	16.68	13.38	0.0218
78	30	80	641666	3624.99	DFT-s-OFDM 256 QAM	1@1	16.49	13.19	0.0208
78	30	80	641666	3624.99	DFT-s-OFDM 256 QAM	1@215	16.13	12.83	0.0192
78	30	80	641666	3624.99	CP-OFDM QPSK	109@54	19.66	16.36	0.0433
78	30	80	641666	3624.99	CP-OFDM QPSK	1@1	19.65	16.35	0.0432
78	30	80	641666	3624.99	CP-OFDM QPSK	1@215	19.29	15.99	0.0397
78	30	80	641666	3624.99	CP-OFDM 16 QAM	109@54	19.19	15.89	0.0388
78	30	80	641666	3624.99	CP-OFDM 16 QAM	1@1	19.34	16.04	0.0402
78	30	80	641666	3624.99	CP-OFDM 16 QAM	1@215	19.04	15.74	0.0375
78	30	80	641666	3624.99	CP-OFDM 64 QAM	109@54	17.67	14.37	0.0274
78	30	80	641666	3624.99	CP-OFDM 64 QAM	1@1	17.68	14.38	0.0274
78	30	80	641666	3624.99	CP-OFDM 64 QAM	1@215	17.20	13.90	0.0245
78	30	80	641666	3624.99	CP-OFDM 256 QAM	109@54	14.76	11.46	0.0140
78	30	80	641666	3624.99	CP-OFDM 256 QAM	1@1	14.60	11.30	0.0135
78	30	80	641666	3624.99	CP-OFDM 256 QAM	1@215	14.18	10.88	0.0122
78	30	80	644000	3660	DFT-s-OFDM PI/2 BPSK	108@54	20.97	17.67	0.0585
78	30	80	644000	3660	DFT-s-OFDM PI/2 BPSK	1@1	21.37	18.07	0.0641
78	30	80	644000	3660	DFT-s-OFDM PI/2 BPSK	1@215	20.92	17.62	0.0578
78	30	80	644000	3660	DFT-s-OFDM QPSK	108@54	20.99	17.69	0.0587
78	30	80	644000	3660	DFT-s-OFDM QPSK	1@1	21.35	18.05	0.0638
78	30	80	644000	3660	DFT-s-OFDM QPSK	1@215	20.87	17.57	0.0571
78	30	80	644000	3660	DFT-s-OFDM 16 QAM	108@54	19.98	16.68	0.0466
78	30	80	644000	3660	DFT-s-OFDM 16 QAM	1@1	20.60	17.30	0.0537
78	30	80	644000	3660	DFT-s-OFDM 16 QAM	1@215	20.13	16.83	0.0482
78	30	80	644000	3660	DFT-s-OFDM 64 QAM	108@54	18.47	15.17	0.0329
78	30	80	644000	3660	DFT-s-OFDM 64 QAM	1@1	18.73	15.43	0.0349
78	30	80	644000	3660	DFT-s-OFDM 64 QAM	1@215	18.27	14.97	0.0314
78	30	80	644000	3660	DFT-s-OFDM 256 QAM	108@54	16.47	13.17	0.0207
78	30	80	644000	3660	DFT-s-OFDM 256 QAM	1@1	16.75	13.45	0.0221
78	30	80	644000	3660	DFT-s-OFDM 256 QAM	1@215	16.32	13.02	0.0200

78	30	80	644000	3660	CP-OFDM QPSK	109@54	19.41	16.11	0.0408
78	30	80	644000	3660	CP-OFDM QPSK	1@1	19.83	16.53	0.0450
78	30	80	644000	3660	CP-OFDM QPSK	1@215	19.46	16.16	0.0413
78	30	80	644000	3660	CP-OFDM 16 QAM	109@54	18.95	15.65	0.0367
78	30	80	644000	3660	CP-OFDM 16 QAM	1@1	19.57	16.27	0.0424
78	30	80	644000	3660	CP-OFDM 16 QAM	1@215	19.14	15.84	0.0384
78	30	80	644000	3660	CP-OFDM 64 QAM	109@54	17.44	14.14	0.0259
78	30	80	644000	3660	CP-OFDM 64 QAM	1@1	17.88	14.58	0.0287
78	30	80	644000	3660	CP-OFDM 64 QAM	1@215	17.41	14.11	0.0258
78	30	80	644000	3660	CP-OFDM 256 QAM	109@54	14.48	11.18	0.0131
78	30	80	644000	3660	CP-OFDM 256 QAM	1@1	14.80	11.50	0.0141
78	30	80	644000	3660	CP-OFDM 256 QAM	1@215	14.35	11.05	0.0127
78	30	90	639668	3595.02	DFT-s-OFDM PI/2 BPSK	120@60	21.10	17.80	0.0603
78	30	90	639668	3595.02	DFT-s-OFDM PI/2 BPSK	1@1	21.24	17.94	0.0622
78	30	90	639668	3595.02	DFT-s-OFDM PI/2 BPSK	1@243	20.73	17.43	0.0553
78	30	90	639668	3595.02	DFT-s-OFDM QPSK	120@60	21.12	17.82	0.0605
78	30	90	639668	3595.02	DFT-s-OFDM QPSK	1@1	21.19	17.89	0.0615
78	30	90	639668	3595.02	DFT-s-OFDM QPSK	1@243	20.68	17.38	0.0547
78	30	90	639668	3595.02	DFT-s-OFDM 16 QAM	120@60	20.11	16.81	0.0480
78	30	90	639668	3595.02	DFT-s-OFDM 16 QAM	1@1	20.47	17.17	0.0521
78	30	90	639668	3595.02	DFT-s-OFDM 16 QAM	1@243	19.99	16.69	0.0467
78	30	90	639668	3595.02	DFT-s-OFDM 64 QAM	120@60	18.60	15.30	0.0339
78	30	90	639668	3595.02	DFT-s-OFDM 64 QAM	1@1	18.64	15.34	0.0342
78	30	90	639668	3595.02	DFT-s-OFDM 64 QAM	1@243	12.45	9.15	0.0082
78	30	90	639668	3595.02	DFT-s-OFDM 256 QAM	120@60	10.44	7.14	0.0052
78	30	90	639668	3595.02	DFT-s-OFDM 256 QAM	1@1	12.47	9.17	0.0083
78	30	90	639668	3595.02	DFT-s-OFDM 256 QAM	1@243	16.12	12.82	0.0191
78	30	90	639668	3595.02	CP-OFDM QPSK	123@61	19.57	16.27	0.0424
78	30	90	639668	3595.02	CP-OFDM QPSK	1@1	19.76	16.46	0.0443
78	30	90	639668	3595.02	CP-OFDM QPSK	1@243	19.46	16.16	0.0413
78	30	90	639668	3595.02	CP-OFDM 16 QAM	123@61	19.07	15.77	0.0378
78	30	90	639668	3595.02	CP-OFDM 16 QAM	1@1	19.47	16.17	0.0414
78	30	90	639668	3595.02	CP-OFDM 16 QAM	1@243	19.07	15.77	0.0378

78	30	90	639668	3595.02	CP-OFDM 64 QAM	123@61	17.58	14.28	0.0268
78	30	90	639668	3595.02	CP-OFDM 64 QAM	1@1	17.77	14.47	0.0280
78	30	90	639668	3595.02	CP-OFDM 64 QAM	1@243	17.26	13.96	0.0249
78	30	90	639668	3595.02	CP-OFDM 256 QAM	123@61	14.58	11.28	0.0134
78	30	90	639668	3595.02	CP-OFDM 256 QAM	1@1	14.66	11.36	0.0137
78	30	90	639668	3595.02	CP-OFDM 256 QAM	1@243	14.19	10.89	0.0123
78	30	90	641666	3624.99	DFT-s-OFDM PI/2 BPSK	120@60	21.19	17.89	0.0615
78	30	90	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@1	21.13	17.83	0.0607
78	30	90	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@243	20.66	17.36	0.0545
78	30	90	641666	3624.99	DFT-s-OFDM QPSK	120@60	21.22	17.92	0.0619
78	30	90	641666	3624.99	DFT-s-OFDM QPSK	1@1	21.11	17.81	0.0604
78	30	90	641666	3624.99	DFT-s-OFDM QPSK	1@243	20.63	17.33	0.0541
78	30	90	641666	3624.99	DFT-s-OFDM 16 QAM	120@60	20.20	16.90	0.0490
78	30	90	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	20.33	17.03	0.0505
78	30	90	641666	3624.99	DFT-s-OFDM 16 QAM	1@243	19.90	16.60	0.0457
78	30	90	641666	3624.99	DFT-s-OFDM 64 QAM	120@60	18.69	15.39	0.0346
78	30	90	641666	3624.99	DFT-s-OFDM 64 QAM	1@1	18.44	15.14	0.0327
78	30	90	641666	3624.99	DFT-s-OFDM 64 QAM	1@243	18.08	14.78	0.0301
78	30	90	641666	3624.99	DFT-s-OFDM 256 QAM	120@60	16.70	13.40	0.0219
78	30	90	641666	3624.99	DFT-s-OFDM 256 QAM	1@1	16.51	13.21	0.0209
78	30	90	641666	3624.99	DFT-s-OFDM 256 QAM	1@243	16.05	12.75	0.0188
78	30	90	641666	3624.99	CP-OFDM QPSK	123@61	19.65	16.35	0.0432
78	30	90	641666	3624.99	CP-OFDM QPSK	1@1	19.60	16.30	0.0427
78	30	90	641666	3624.99	CP-OFDM QPSK	1@243	19.36	16.06	0.0404
78	30	90	641666	3624.99	CP-OFDM 16 QAM	123@61	19.17	15.87	0.0386
78	30	90	641666	3624.99	CP-OFDM 16 QAM	1@1	19.35	16.05	0.0403
78	30	90	641666	3624.99	CP-OFDM 16 QAM	1@243	18.98	15.68	0.0370
78	30	90	641666	3624.99	CP-OFDM 64 QAM	123@61	17.61	14.31	0.0270
78	30	90	641666	3624.99	CP-OFDM 64 QAM	1@1	17.63	14.33	0.0271
78	30	90	641666	3624.99	CP-OFDM 64 QAM	1@243	17.16	13.86	0.0243
78	30	90	641666	3624.99	CP-OFDM 256 QAM	123@61	14.61	11.31	0.0135
78	30	90	641666	3624.99	CP-OFDM 256 QAM	1@1	14.56	11.26	0.0134
78	30	90	641666	3624.99	CP-OFDM 256 QAM	1@243	14.08	10.78	0.0120

78	30	90	643666	3654.99	DFT-s-OFDM PI/2 BPSK	120@60	21.01	17.71	0.0590
78	30	90	643666	3654.99	DFT-s-OFDM PI/2 BPSK	1@1	21.32	18.02	0.0634
78	30	90	643666	3654.99	DFT-s-OFDM PI/2 BPSK	1@243	20.87	17.57	0.0571
78	30	90	643666	3654.99	DFT-s-OFDM QPSK	120@60	21.01	17.71	0.0590
78	30	90	643666	3654.99	DFT-s-OFDM QPSK	1@1	21.30	18.00	0.0631
78	30	90	643666	3654.99	DFT-s-OFDM QPSK	1@243	20.82	17.52	0.0565
78	30	90	643666	3654.99	DFT-s-OFDM 16 QAM	120@60	20.01	16.71	0.0469
78	30	90	643666	3654.99	DFT-s-OFDM 16 QAM	1@1	20.52	17.22	0.0527
78	30	90	643666	3654.99	DFT-s-OFDM 16 QAM	1@243	20.10	16.80	0.0479
78	30	90	643666	3654.99	DFT-s-OFDM 64 QAM	120@60	18.53	15.23	0.0333
78	30	90	643666	3654.99	DFT-s-OFDM 64 QAM	1@1	18.70	15.40	0.0347
78	30	90	643666	3654.99	DFT-s-OFDM 64 QAM	1@243	18.31	15.01	0.0317
78	30	90	643666	3654.99	DFT-s-OFDM 256 QAM	120@60	16.54	13.24	0.0211
78	30	90	643666	3654.99	DFT-s-OFDM 256 QAM	1@1	16.71	13.41	0.0219
78	30	90	643666	3654.99	DFT-s-OFDM 256 QAM	1@243	16.27	12.97	0.0198
78	30	90	643666	3654.99	CP-OFDM QPSK	123@61	19.47	16.17	0.0414
78	30	90	643666	3654.99	CP-OFDM QPSK	1@1	19.85	16.55	0.0452
78	30	90	643666	3654.99	CP-OFDM QPSK	1@243	19.59	16.29	0.0426
78	30	90	643666	3654.99	CP-OFDM 16 QAM	123@61	18.97	15.67	0.0369
78	30	90	643666	3654.99	CP-OFDM 16 QAM	1@1	19.58	16.28	0.0425
78	30	90	643666	3654.99	CP-OFDM 16 QAM	1@243	19.15	15.85	0.0385
78	30	90	643666	3654.99	CP-OFDM 64 QAM	123@61	17.46	14.16	0.0261
78	30	90	643666	3654.99	CP-OFDM 64 QAM	1@1	17.85	14.55	0.0285
78	30	90	643666	3654.99	CP-OFDM 64 QAM	1@243	17.39	14.09	0.0256
78	30	90	643666	3654.99	CP-OFDM 256 QAM	123@61	14.49	11.19	0.0132
78	30	90	643666	3654.99	CP-OFDM 256 QAM	1@1	14.77	11.47	0.0140
78	30	90	643666	3654.99	CP-OFDM 256 QAM	1@243	14.30	11.00	0.0126
78	30	100	640000	3600	DFT-s-OFDM PI/2 BPSK	135@67	21.14	17.84	0.0608
78	30	100	640000	3600	DFT-s-OFDM PI/2 BPSK	1@1	21.28	17.98	0.0628
78	30	100	640000	3600	DFT-s-OFDM PI/2 BPSK	1@271	20.66	17.36	0.0545
78	30	100	640000	3600	DFT-s-OFDM QPSK	135@67	21.19	17.89	0.0615
78	30	100	640000	3600	DFT-s-OFDM QPSK	1@1	21.24	17.94	0.0622
78	30	100	640000	3600	DFT-s-OFDM QPSK	1@271	20.67	17.37	0.0546

78	30	100	640000	3600	DFT-s-OFDM 16 QAM	135@67	20.18	16.88	0.0488
78	30	100	640000	3600	DFT-s-OFDM 16 QAM	1@1	20.54	17.24	0.0530
78	30	100	640000	3600	DFT-s-OFDM 16 QAM	1@271	19.94	16.64	0.0461
78	30	100	640000	3600	DFT-s-OFDM 64 QAM	135@67	18.70	15.40	0.0347
78	30	100	640000	3600	DFT-s-OFDM 64 QAM	1@1	18.68	15.38	0.0345
78	30	100	640000	3600	DFT-s-OFDM 64 QAM	1@271	18.11	14.81	0.0303
78	30	100	640000	3600	DFT-s-OFDM 256 QAM	135@67	16.67	13.37	0.0217
78	30	100	640000	3600	DFT-s-OFDM 256 QAM	1@1	16.71	13.41	0.0219
78	30	100	640000	3600	DFT-s-OFDM 256 QAM	1@271	16.11	12.81	0.0191
78	30	100	640000	3600	CP-OFDM QPSK	137@68	19.63	16.33	0.0430
78	30	100	640000	3600	CP-OFDM QPSK	1@1	19.78	16.48	0.0445
78	30	100	640000	3600	CP-OFDM QPSK	1@271	19.32	16.02	0.0400
78	30	100	640000	3600	CP-OFDM 16 QAM	137@68	19.14	15.84	0.0384
78	30	100	640000	3600	CP-OFDM 16 QAM	1@1	19.53	16.23	0.0420
78	30	100	640000	3600	CP-OFDM 16 QAM	1@271	19.00	15.70	0.0372
78	30	100	640000	3600	CP-OFDM 64 QAM	137@68	17.61	14.31	0.0270
78	30	100	640000	3600	CP-OFDM 64 QAM	1@1	17.84	14.54	0.0284
78	30	100	640000	3600	CP-OFDM 64 QAM	1@271	17.24	13.94	0.0248
78	30	100	640000	3600	CP-OFDM 256 QAM	137@68	14.64	11.34	0.0136
78	30	100	640000	3600	CP-OFDM 256 QAM	1@1	14.75	11.45	0.0140
78	30	100	640000	3600	CP-OFDM 256 QAM	1@271	14.16	10.86	0.0122
78	30	100	641666	3624.99	DFT-s-OFDM PI/2 BPSK	135@67	21.18	17.88	0.0614
78	30	100	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@1	21.16	17.86	0.0611
78	30	100	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@271	20.66	17.36	0.0545
78	30	100	641666	3624.99	DFT-s-OFDM QPSK	135@67	21.20	17.90	0.0617
78	30	100	641666	3624.99	DFT-s-OFDM QPSK	1@1	21.13	17.83	0.0607
78	30	100	641666	3624.99	DFT-s-OFDM QPSK	1@271	20.68	17.38	0.0547
78	30	100	641666	3624.99	DFT-s-OFDM 16 QAM	135@67	20.20	16.90	0.0490
78	30	100	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	20.38	17.08	0.0511
78	30	100	641666	3624.99	DFT-s-OFDM 16 QAM	1@271	19.93	16.63	0.0460
78	30	100	641666	3624.99	DFT-s-OFDM 64 QAM	135@67	18.71	15.41	0.0348
78	30	100	641666	3624.99	DFT-s-OFDM 64 QAM	1@1	18.49	15.19	0.0330
78	30	100	641666	3624.99	DFT-s-OFDM 64 QAM	1@271	18.09	14.79	0.0301

78	30	100	641666	3624.99	DFT-s-OFDM 256 QAM	135@67	16.68	13.38	0.0218
78	30	100	641666	3624.99	DFT-s-OFDM 256 QAM	1@1	16.54	13.24	0.0211
78	30	100	641666	3624.99	DFT-s-OFDM 256 QAM	1@271	16.09	12.79	0.0190
78	30	100	641666	3624.99	CP-OFDM QPSK	137@68	19.65	16.35	0.0432
78	30	100	641666	3624.99	CP-OFDM QPSK	1@1	19.63	16.33	0.0430
78	30	100	641666	3624.99	CP-OFDM QPSK	1@271	19.31	16.01	0.0399
78	30	100	641666	3624.99	CP-OFDM 16 QAM	137@68	19.22	15.92	0.0391
78	30	100	641666	3624.99	CP-OFDM 16 QAM	1@1	19.42	16.12	0.0409
78	30	100	641666	3624.99	CP-OFDM 16 QAM	1@271	18.97	15.67	0.0369
78	30	100	641666	3624.99	CP-OFDM 64 QAM	137@68	17.66	14.36	0.0273
78	30	100	641666	3624.99	CP-OFDM 64 QAM	1@1	17.70	14.40	0.0275
78	30	100	641666	3624.99	CP-OFDM 64 QAM	1@271	17.23	13.93	0.0247
78	30	100	641666	3624.99	CP-OFDM 256 QAM	137@68	14.68	11.38	0.0137
78	30	100	641666	3624.99	CP-OFDM 256 QAM	1@1	14.61	11.31	0.0135
78	30	100	641666	3624.99	CP-OFDM 256 QAM	1@271	14.16	10.86	0.0122
78	30	100	643332	3649.98	DFT-s-OFDM PI/2 BPSK	135@67	21.08	17.78	0.0600
78	30	100	643332	3649.98	DFT-s-OFDM PI/2 BPSK	1@1	21.35	18.05	0.0638
78	30	100	643332	3649.98	DFT-s-OFDM PI/2 BPSK	1@271	20.95	17.65	0.0582
78	30	100	643332	3649.98	DFT-s-OFDM QPSK	135@67	21.10	17.80	0.0603
78	30	100	643332	3649.98	DFT-s-OFDM QPSK	1@1	21.25	17.95	0.0624
78	30	100	643332	3649.98	DFT-s-OFDM QPSK	1@271	20.89	17.59	0.0574
78	30	100	643332	3649.98	DFT-s-OFDM 16 QAM	135@67	20.11	16.81	0.0480
78	30	100	643332	3649.98	DFT-s-OFDM 16 QAM	1@1	20.56	17.26	0.0532
78	30	100	643332	3649.98	DFT-s-OFDM 16 QAM	1@271	20.14	16.84	0.0483
78	30	100	643332	3649.98	DFT-s-OFDM 64 QAM	135@67	18.59	15.29	0.0338
78	30	100	643332	3649.98	DFT-s-OFDM 64 QAM	1@1	18.66	15.36	0.0344
78	30	100	643332	3649.98	DFT-s-OFDM 64 QAM	1@271	18.30	15.00	0.0316
78	30	100	643332	3649.98	DFT-s-OFDM 256 QAM	135@67	16.57	13.27	0.0212
78	30	100	643332	3649.98	DFT-s-OFDM 256 QAM	1@1	16.69	13.39	0.0218
78	30	100	643332	3649.98	DFT-s-OFDM 256 QAM	1@271	16.31	13.01	0.0200
78	30	100	643332	3649.98	CP-OFDM QPSK	137@68	19.55	16.25	0.0422
78	30	100	643332	3649.98	CP-OFDM QPSK	1@1	19.76	16.46	0.0443
78	30	100	643332	3649.98	CP-OFDM QPSK	1@271	19.58	16.28	0.0425

78	30	100	643332	3649.98	CP-OFDM 16 QAM	137@68	19.03	15.73	0.0374
78	30	100	643332	3649.98	CP-OFDM 16 QAM	1@1	19.52	16.22	0.0419
78	30	100	643332	3649.98	CP-OFDM 16 QAM	1@271	19.20	15.90	0.0389
78	30	100	643332	3649.98	CP-OFDM 64 QAM	137@68	17.55	14.25	0.0266
78	30	100	643332	3649.98	CP-OFDM 64 QAM	1@1	17.84	14.54	0.0284
78	30	100	643332	3649.98	CP-OFDM 64 QAM	1@271	17.44	14.14	0.0259
78	30	100	643332	3649.98	CP-OFDM 256 QAM	137@68	14.53	11.23	0.0133
78	30	100	643332	3649.98	CP-OFDM 256 QAM	1@1	14.74	11.44	0.0139
78	30	100	643332	3649.98	CP-OFDM 256 QAM	1@271	14.37	11.07	0.0128

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (Hz)	Verdict	Environment
78	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	2.6	**PASS**	NV
78	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	-4.5	**PASS**	LV
78	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	6.3	**PASS**	HV
78	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	-5.8	**PASS**	-30℃
78	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	4.1	**PASS**	-20℃
78	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	-3.9	**PASS**	-10℃
78	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	-5.2	**PASS**	0℃
78	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	4.3	**PASS**	10℃
78	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	3.6	**PASS**	20℃
78	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	6.5	**PASS**	30℃
78	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	4.8	**PASS**	40℃
78	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	4.2	**PASS**	50℃

$|MAX(\triangle f)| = 6.5 Hz$

Frequency Stability	Frequency (MHz)	Limit Line	Result
fL – |MAX($\triangle$ f)|	3550.369995	≧ 3550 MHz	PASS
fH + |MAX($\triangle$ f)|	3698.560005	≦ 3700 MHz	

Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
78	30	20	637334	3560.01	CP-OFDM QPSK	51@0	18.176	18.92
78	30	20	637334	3560.01	CP-OFDM 16 QAM	51@0	18.22	18.88
78	30	20	637334	3560.01	CP-OFDM 64 QAM	51@0	18.155	18.94
78	30	20	637334	3560.01	CP-OFDM 256 QAM	51@0	18.151	18.85
78	30	20	641666	3624.99	CP-OFDM QPSK	51@0	18.154	18.91
78	30	20	641666	3624.99	CP-OFDM 16 QAM	51@0	18.226	18.97
78	30	20	641666	3624.99	CP-OFDM 64 QAM	51@0	18.174	19.04
78	30	20	641666	3624.99	CP-OFDM 256 QAM	51@0	18.163	19.03
78	30	20	646000	3690.0	CP-OFDM QPSK	51@0	18.207	19.0
78	30	20	646000	3690.0	CP-OFDM 16 QAM	51@0	18.239	19.13
78	30	20	646000	3690.0	CP-OFDM 64 QAM	51@0	18.158	18.87
78	30	20	646000	3690.0	CP-OFDM 256 QAM	51@0	18.23	18.97
78	30	30	637668	3565.02	CP-OFDM QPSK	78@0	27.79	28.85
78	30	30	637668	3565.02	CP-OFDM 16 QAM	78@0	27.792	28.96
78	30	30	637668	3565.02	CP-OFDM 64 QAM	78@0	27.825	28.89
78	30	30	637668	3565.02	CP-OFDM 256 QAM	78@0	27.909	29.01
78	30	30	641666	3624.99	CP-OFDM QPSK	78@0	27.764	29.17
78	30	30	641666	3624.99	CP-OFDM 16 QAM	78@0	27.807	29.06
78	30	30	641666	3624.99	CP-OFDM 64 QAM	78@0	27.652	28.88
78	30	30	641666	3624.99	CP-OFDM 256 QAM	78@0	27.797	28.84
78	30	30	645666	3684.99	CP-OFDM QPSK	78@0	27.872	29.03
78	30	30	645666	3684.99	CP-OFDM 16 QAM	78@0	27.848	28.99
78	30	30	645666	3684.99	CP-OFDM 64 QAM	78@0	27.788	28.75
78	30	30	645666	3684.99	CP-OFDM 256 QAM	78@0	27.801	29.18
78	30	40	638000	3570.0	CP-OFDM QPSK	106@0	37.865	39.27
78	30	40	638000	3570.0	CP-OFDM 16 QAM	106@0	37.93	39.22
78	30	40	638000	3570.0	CP-OFDM 64 QAM	106@0	37.79	39.15
78	30	40	638000	3570.0	CP-OFDM 256 QAM	106@0	37.873	39.21
78	30	40	641666	3624.99	CP-OFDM QPSK	106@0	37.844	39.04

78	30	40	641666	3624.99	CP-OFDM 16 QAM	106@0	37.847	39.08
78	30	40	641666	3624.99	CP-OFDM 64 QAM	106@0	37.891	39.2
78	30	40	641666	3624.99	CP-OFDM 256 QAM	106@0	37.777	39.37
78	30	40	645332	3679.98	CP-OFDM QPSK	106@0	37.832	39.38
78	30	40	645332	3679.98	CP-OFDM 16 QAM	106@0	37.863	39.12
78	30	40	645332	3679.98	CP-OFDM 64 QAM	106@0	37.834	39.35
78	30	40	645332	3679.98	CP-OFDM 256 QAM	106@0	37.807	39.33
78	30	50	638334	3575.01	CP-OFDM QPSK	133@0	47.494	49.26
78	30	50	638334	3575.01	CP-OFDM 16 QAM	133@0	47.251	49.16
78	30	50	638334	3575.01	CP-OFDM 64 QAM	133@0	47.544	49.02
78	30	50	638334	3575.01	CP-OFDM 256 QAM	133@0	47.282	49.1
78	30	50	641666	3624.99	CP-OFDM QPSK	133@0	47.394	49.01
78	30	50	641666	3624.99	CP-OFDM 16 QAM	133@0	47.425	49.08
78	30	50	641666	3624.99	CP-OFDM 64 QAM	133@0	47.496	49.07
78	30	50	641666	3624.99	CP-OFDM 256 QAM	133@0	47.424	49.23
78	30	50	645000	3675.0	CP-OFDM QPSK	133@0	47.355	49.2
78	30	50	645000	3675.0	CP-OFDM 16 QAM	133@0	47.528	49.07
78	30	50	645000	3675.0	CP-OFDM 64 QAM	133@0	47.419	49.1
78	30	50	645000	3675.0	CP-OFDM 256 QAM	133@0	47.472	48.96
78	30	60	638668	3580.02	CP-OFDM QPSK	162@0	57.671	59.7
78	30	60	638668	3580.02	CP-OFDM 16 QAM	162@0	57.824	59.64
78	30	60	638668	3580.02	CP-OFDM 64 QAM	162@0	57.775	59.61
78	30	60	638668	3580.02	CP-OFDM 256 QAM	162@0	57.795	59.69
78	30	60	641666	3624.99	CP-OFDM QPSK	162@0	57.73	59.72
78	30	60	641666	3624.99	CP-OFDM 16 QAM	162@0	57.796	59.7
78	30	60	641666	3624.99	CP-OFDM 64 QAM	162@0	57.84	59.69
78	30	60	641666	3624.99	CP-OFDM 256 QAM	162@0	57.747	59.63
78	30	60	644666	3669.99	CP-OFDM QPSK	162@0	57.847	59.84
78	30	60	644666	3669.99	CP-OFDM 16 QAM	162@0	57.677	59.6
78	30	60	644666	3669.99	CP-OFDM 64 QAM	162@0	57.643	59.67
78	30	60	644666	3669.99	CP-OFDM 256 QAM	162@0	57.797	59.62
78	30	70	639000	3585.0	CP-OFDM QPSK	189@0	67.684	69.81

78	30	70	639000	3585.0	CP-OFDM 16 QAM	189@0	67.308	69.68
78	30	70	639000	3585.0	CP-OFDM 64 QAM	189@0	67.521	69.61
78	30	70	639000	3585.0	CP-OFDM 256 QAM	189@0	67.486	69.64
78	30	70	641666	3624.99	CP-OFDM QPSK	189@0	67.486	69.7
78	30	70	641666	3624.99	CP-OFDM 16 QAM	189@0	67.403	69.74
78	30	70	641666	3624.99	CP-OFDM 64 QAM	189@0	67.364	69.71
78	30	70	641666	3624.99	CP-OFDM 256 QAM	189@0	67.417	69.66
78	30	70	644332	3664.98	CP-OFDM QPSK	189@0	67.594	69.64
78	30	70	644332	3664.98	CP-OFDM 16 QAM	189@0	67.38	69.66
78	30	70	644332	3664.98	CP-OFDM 64 QAM	189@0	67.566	69.7
78	30	70	644332	3664.98	CP-OFDM 256 QAM	189@0	67.708	69.79
78	30	80	639334	3590.01	CP-OFDM QPSK	217@0	77.511	79.88
78	30	80	639334	3590.01	CP-OFDM 16 QAM	217@0	77.194	79.94
78	30	80	639334	3590.01	CP-OFDM 64 QAM	217@0	77.568	79.85
78	30	80	639334	3590.01	CP-OFDM 256 QAM	217@0	77.336	79.96
78	30	80	641666	3624.99	CP-OFDM QPSK	217@0	77.475	79.83
78	30	80	641666	3624.99	CP-OFDM 16 QAM	217@0	77.441	79.83
78	30	80	641666	3624.99	CP-OFDM 64 QAM	217@0	77.383	79.94
78	30	80	641666	3624.99	CP-OFDM 256 QAM	217@0	77.404	80.03
78	30	80	644000	3660.0	CP-OFDM QPSK	217@0	77.356	79.91
78	30	80	644000	3660.0	CP-OFDM 16 QAM	217@0	77.691	80.09
78	30	80	644000	3660.0	CP-OFDM 64 QAM	217@0	77.387	79.95
78	30	80	644000	3660.0	CP-OFDM 256 QAM	217@0	77.597	80.04
78	30	90	639668	3595.02	CP-OFDM QPSK	245@0	87.134	90.18
78	30	90	639668	3595.02	CP-OFDM 16 QAM	245@0	87.141	90.26
78	30	90	639668	3595.02	CP-OFDM 64 QAM	245@0	87.548	90.17
78	30	90	639668	3595.02	CP-OFDM 256 QAM	245@0	87.357	90.15
78	30	90	641666	3624.99	CP-OFDM QPSK	245@0	87.49	90.21
78	30	90	641666	3624.99	CP-OFDM 16 QAM	245@0	87.67	90.22
78	30	90	641666	3624.99	CP-OFDM 64 QAM	245@0	87.306	90.25
78	30	90	641666	3624.99	CP-OFDM 256 QAM	245@0	87.515	90.22
78	30	90	643666	3654.99	CP-OFDM QPSK	245@0	87.385	90.23

78	30	90	643666	3654.99	CP-OFDM 16 QAM	245@0	87.68	90.13
78	30	90	643666	3654.99	CP-OFDM 64 QAM	245@0	87.255	90.32
78	30	90	643666	3654.99	CP-OFDM 256 QAM	245@0	87.566	90.35
78	30	100	640000	3600.0	CP-OFDM QPSK	273@0	97.539	100.4
78	30	100	640000	3600.0	CP-OFDM 16 QAM	273@0	97.312	100.6
78	30	100	640000	3600.0	CP-OFDM 64 QAM	273@0	97.434	100.5
78	30	100	640000	3600.0	CP-OFDM 256 QAM	273@0	97.521	100.4
78	30	100	641666	3624.99	CP-OFDM QPSK	273@0	97.526	100.5
78	30	100	641666	3624.99	CP-OFDM 16 QAM	273@0	97.45	100.4
78	30	100	641666	3624.99	CP-OFDM 64 QAM	273@0	97.497	100.5
78	30	100	641666	3624.99	CP-OFDM 256 QAM	273@0	97.421	100.6
78	30	100	643332	3649.98	CP-OFDM QPSK	273@0	97.411	100.4
78	30	100	643332	3649.98	CP-OFDM 16 QAM	273@0	97.468	100.5
78	30	100	643332	3649.98	CP-OFDM 64 QAM	273@0	97.606	100.5
78	30	100	643332	3649.98	CP-OFDM 256 QAM	273@0	97.55	100.6

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N78(20M)_CP-OFDM_16 QAM_Outer_Full_Low_CH
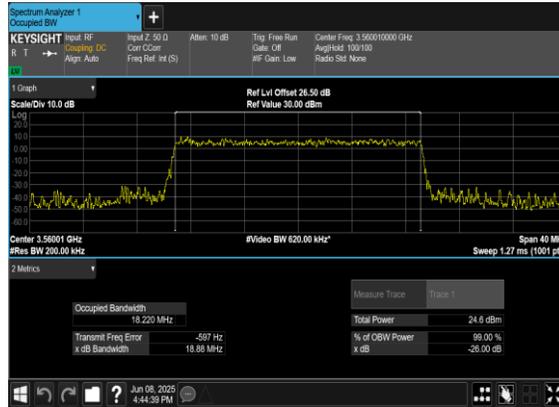
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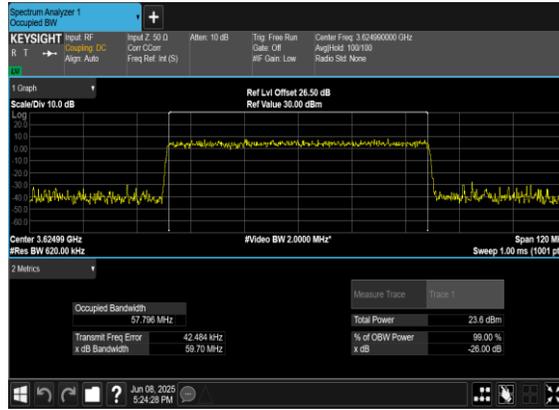

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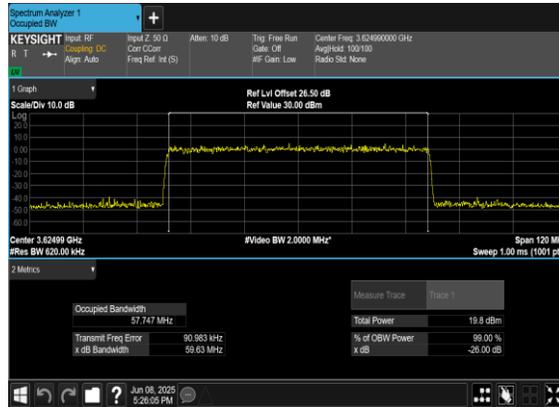
N78(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

N78(20M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

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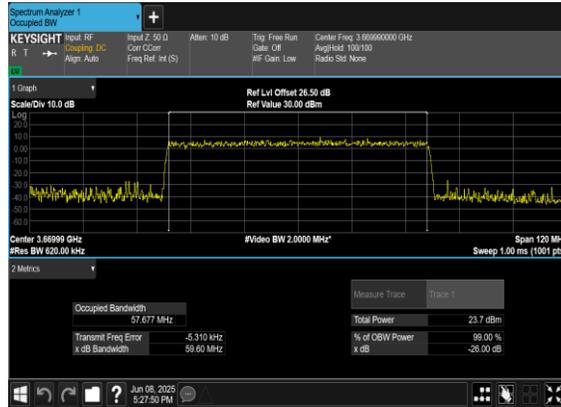

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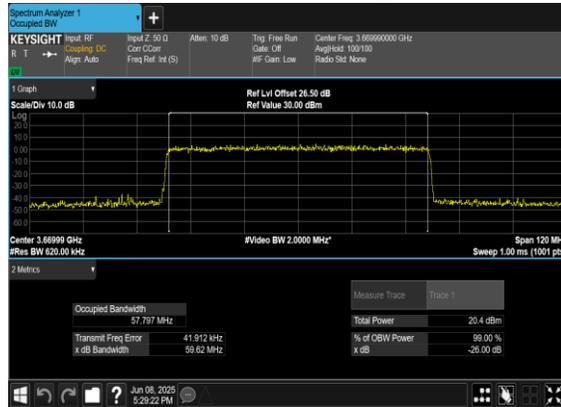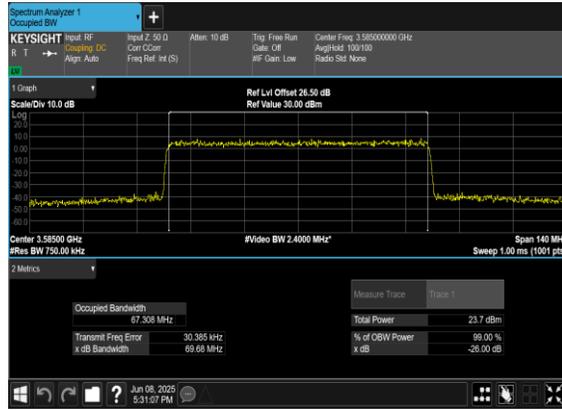
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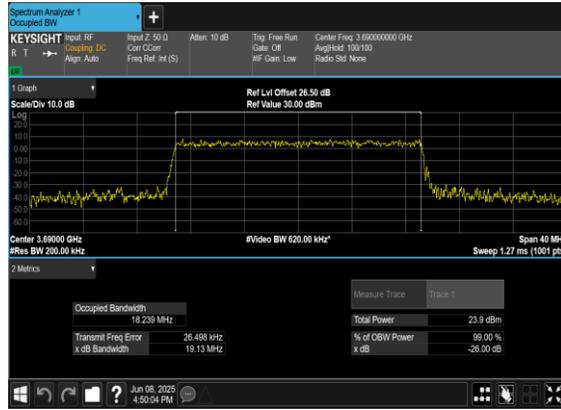
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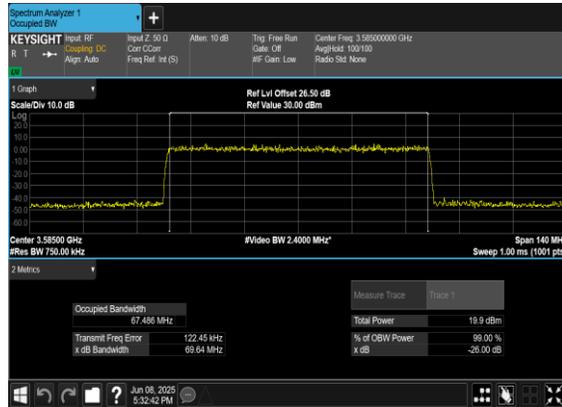### N78(20M)_CP-OFDM_256 QAM_Outer_Full_High_CH
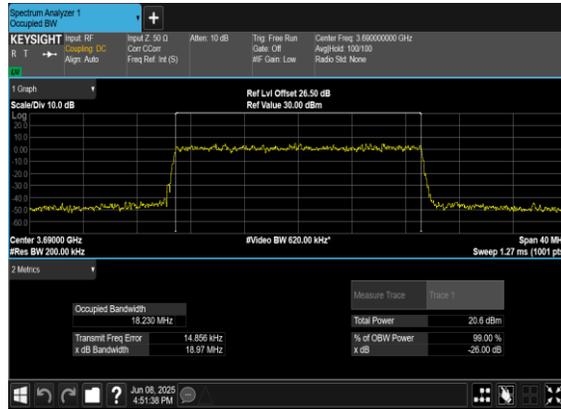
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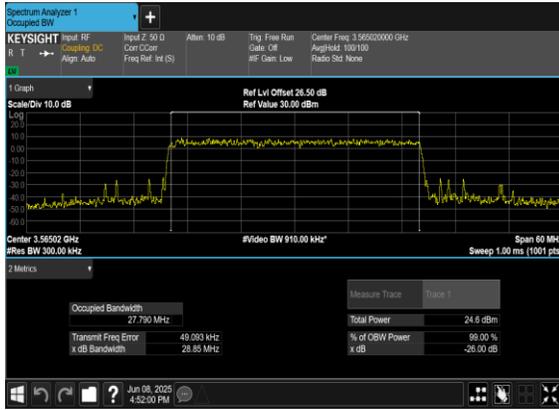
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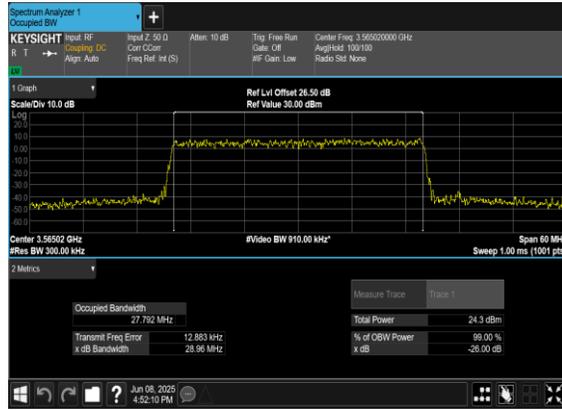
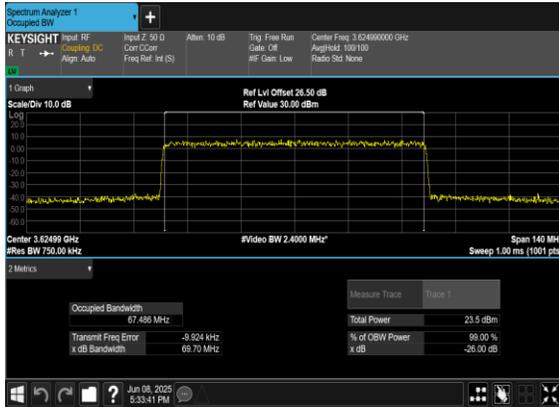### N78(30M)_CP-OFDM_64 QAM_Outer_Full_Low_CH

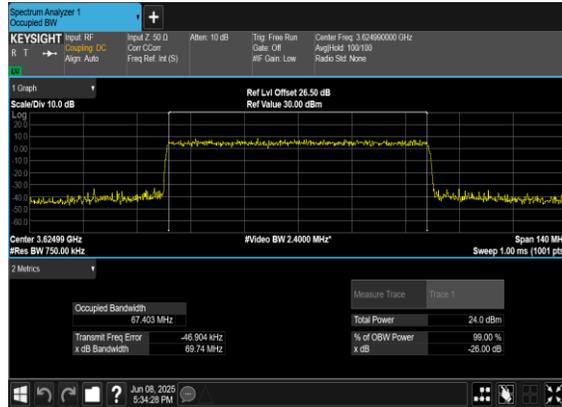### N78(30M)_CP-OFDM_256 QAM_Outer_Full_Low_CH
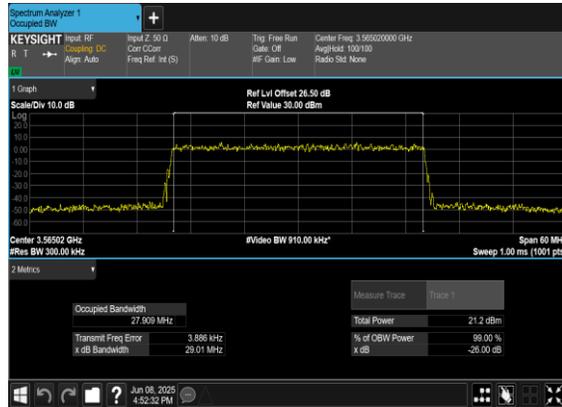
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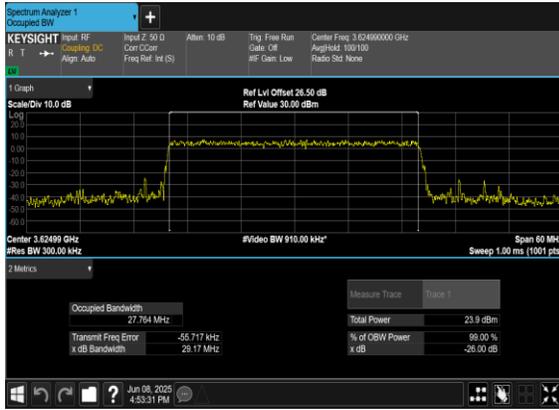
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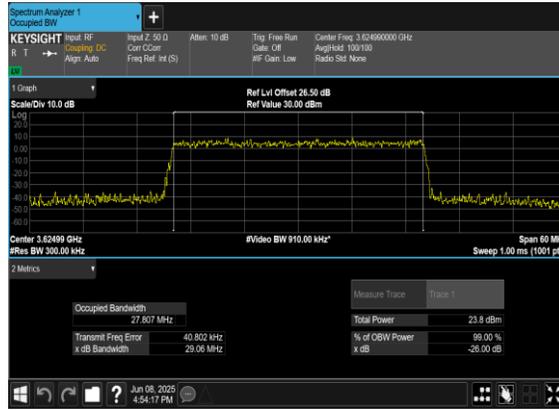
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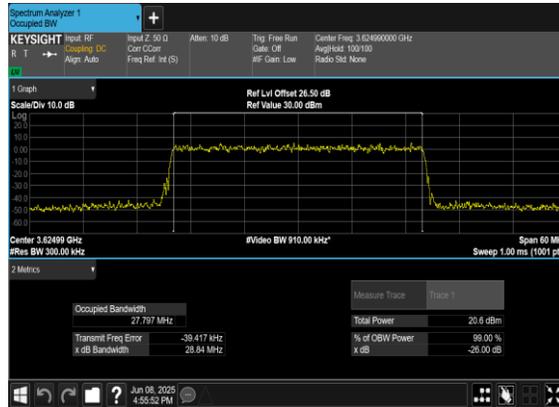
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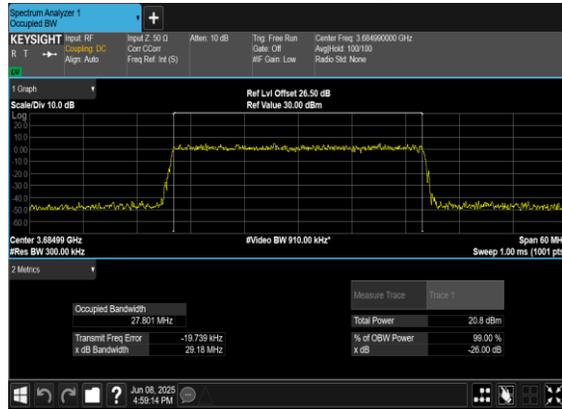
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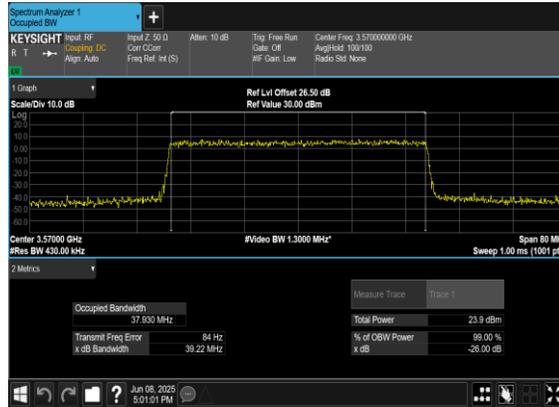
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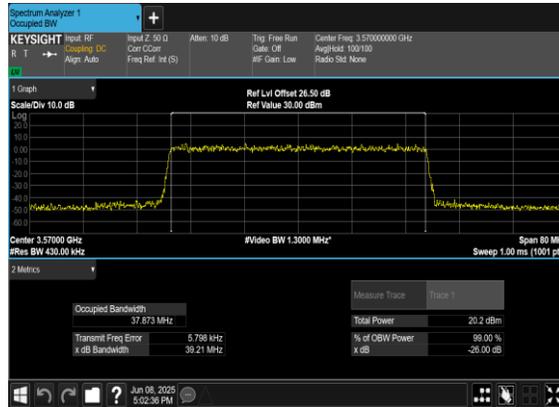
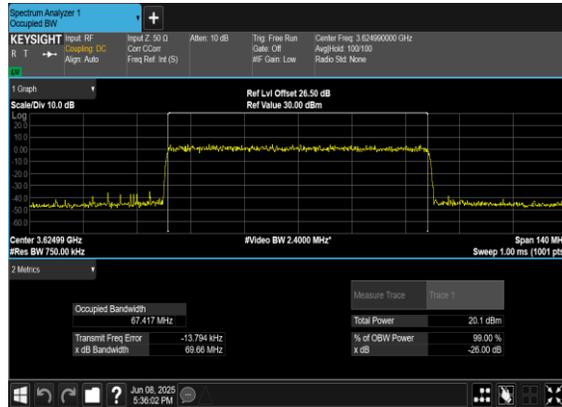## N78(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

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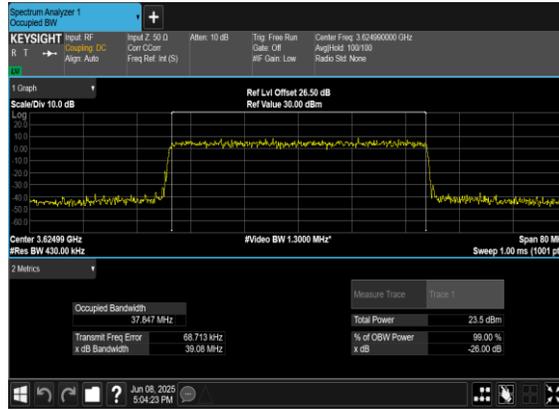
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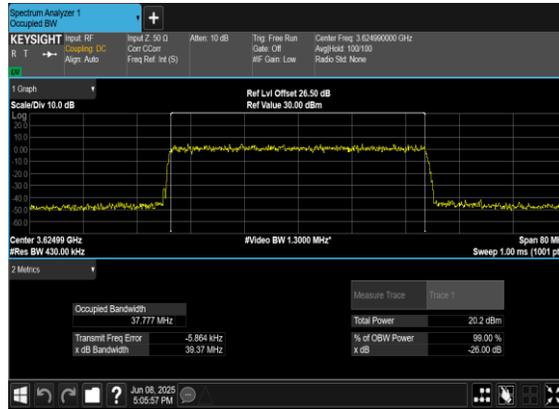
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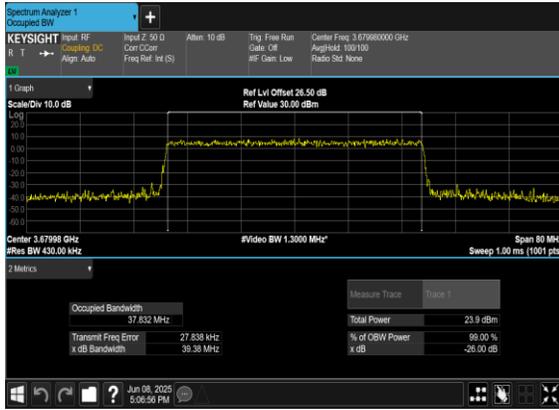
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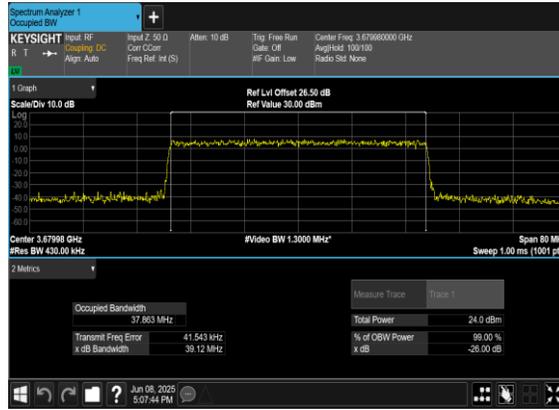
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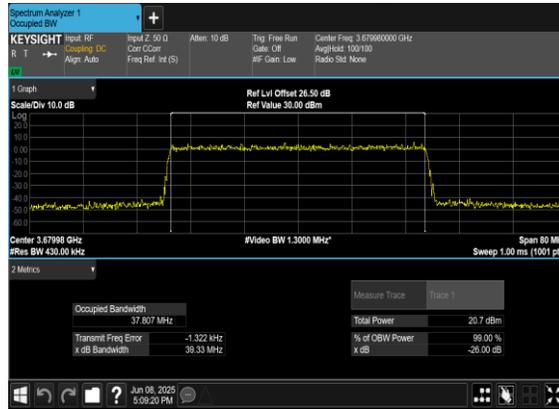
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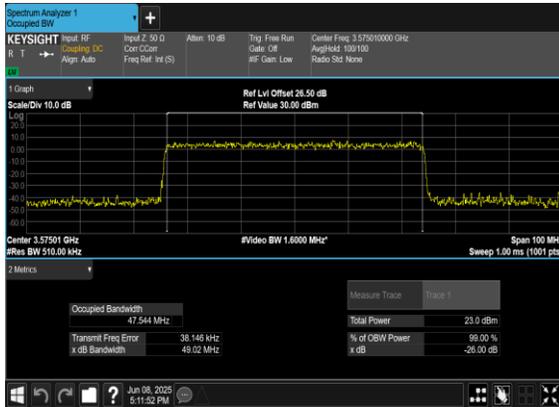
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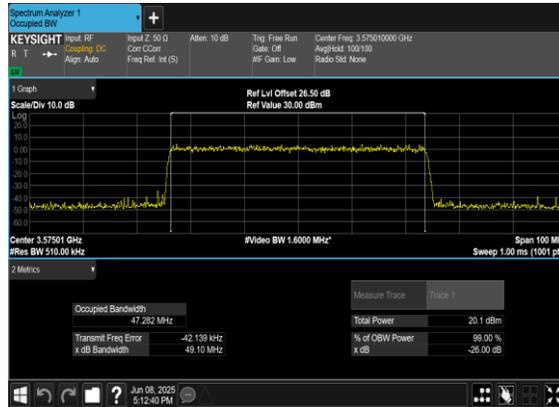
N78(50M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

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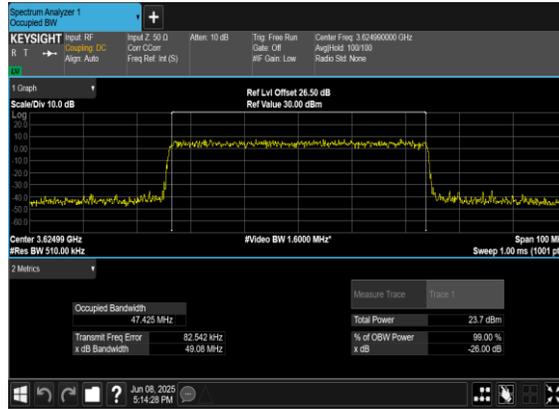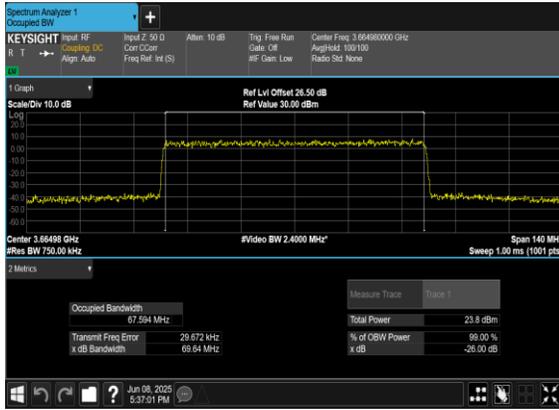
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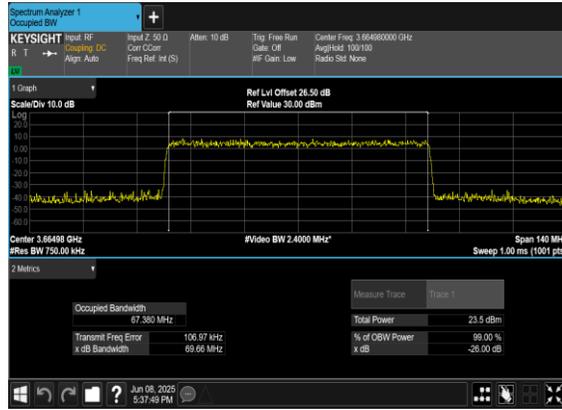
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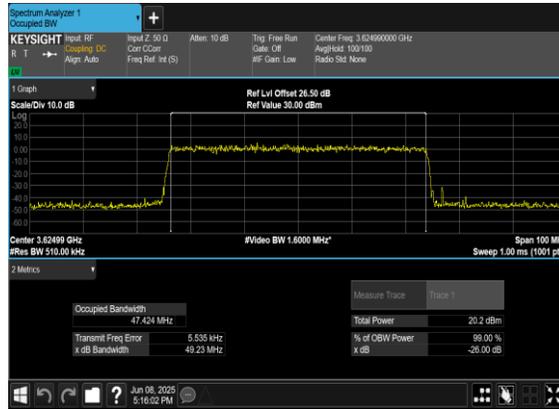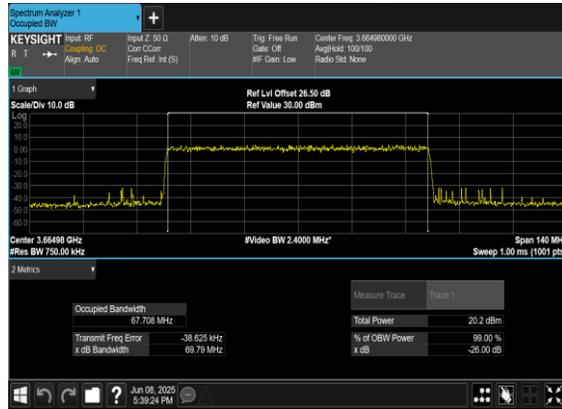
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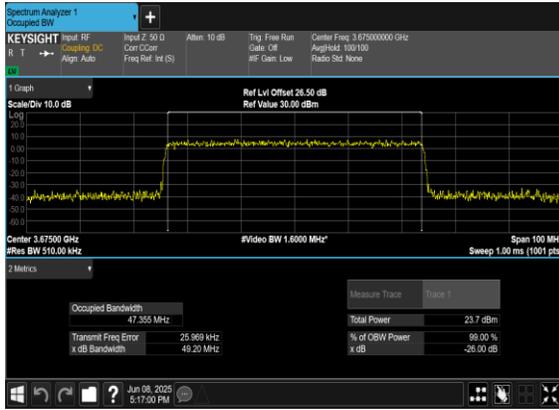
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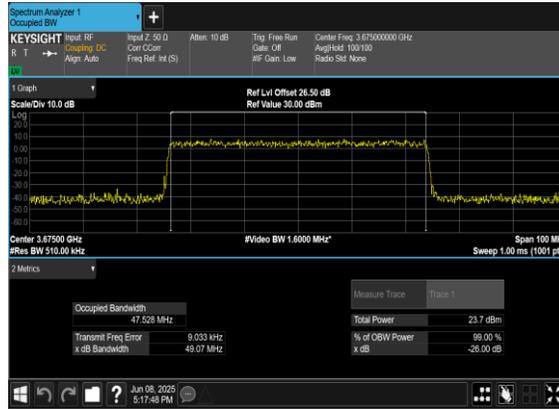
N78(50M)_CP-OFDM_64 QAM_Outer_Full_High_CH

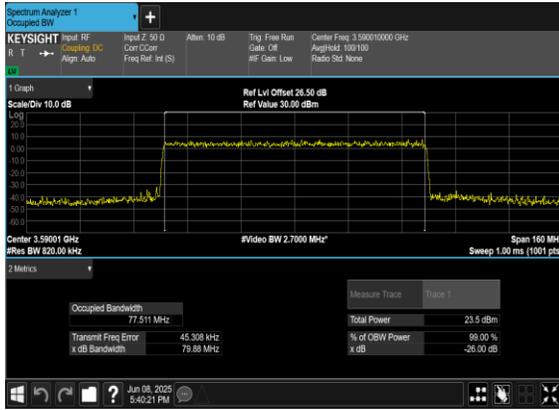### N78(50M)_CP-OFDM_256 QAM_Outer_Full_High_CH
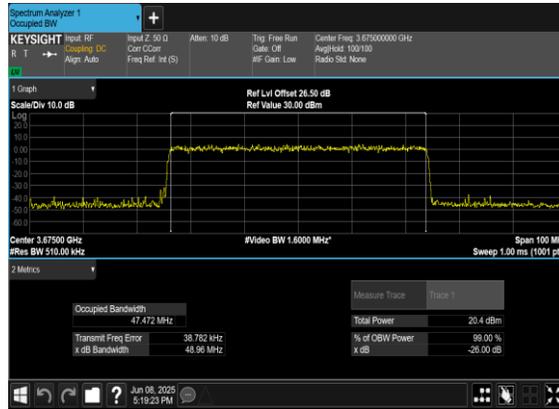
N78(60M)_CP-OFDM_QPSK_Outer_Full_Low_CH

N78(60M)_CP-OFDM_16 QAM_Outer_Full_Low_CH
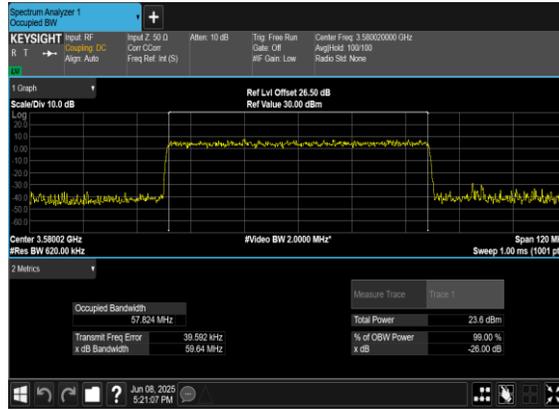
N78(60M)_CP-OFDM_64 QAM_Outer_Full_Low_CH

N78(60M)_CP-OFDM_256 QAM_Outer_Full_Low_CH
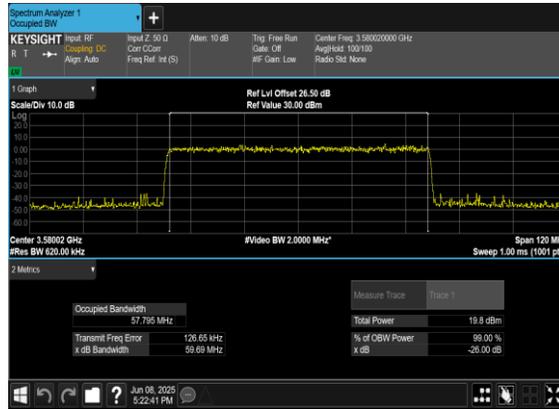
N78(60M)_CP-OFDM_QPSK_Outer_Full_Mid_CH
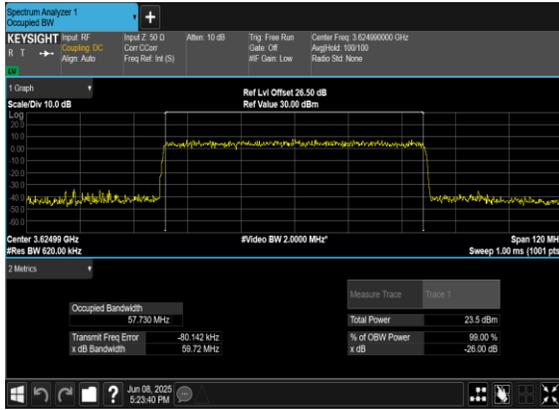
N78(60M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

N78(60M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

N78(60M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

N78(60M)_CP-OFDM_QPSK_Outer_Full_High_CH

N78(60M)_CP-OFDM_16 QAM_Outer_Full_High_CH

N78(60M)_CP-OFDM_64 QAM_Outer_Full_High_CH

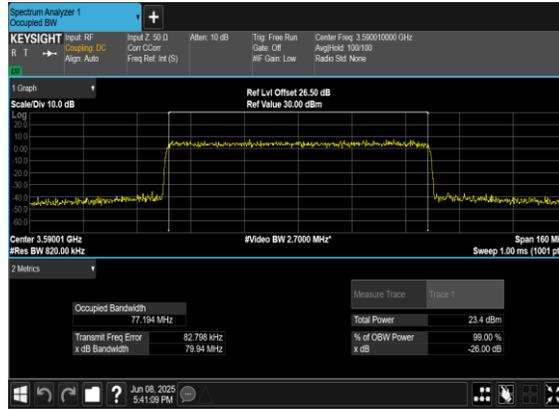### N78(60M)_CP-OFDM_256 QAM_Outer_Full_High_CH

N78(70M)_CP-OFDM_QPSK_Outer_Full_Low_CH

N78(70M)_CP-OFDM_16 QAM_Outer_Full_Low_CH

N78(70M)_CP-OFDM_64 QAM_Outer_Full_Low_CH

N78(70M)_CP-OFDM_256 QAM_Outer_Full_Low_CH

N78(70M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

N78(70M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

N78(70M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

N78(70M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

N78(70M)_CP-OFDM_QPSK_Outer_Full_High_CH

N78(70M)_CP-OFDM_16 QAM_Outer_Full_High_CH

N78(70M)_CP-OFDM_64 QAM_Outer_Full_High_CH

N78(70M)_CP-OFDM_256 QAM_Outer_Full_High_CH
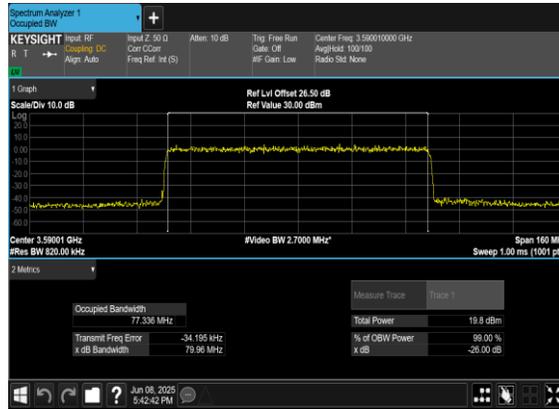
N78(80M)_CP-OFDM_QPSK_Outer_Full_Low_CH

N78(80M)_CP-OFDM_16 QAM_Outer_Full_Low_CH

N78(80M)_CP-OFDM_64 QAM_Outer_Full_Low_CH

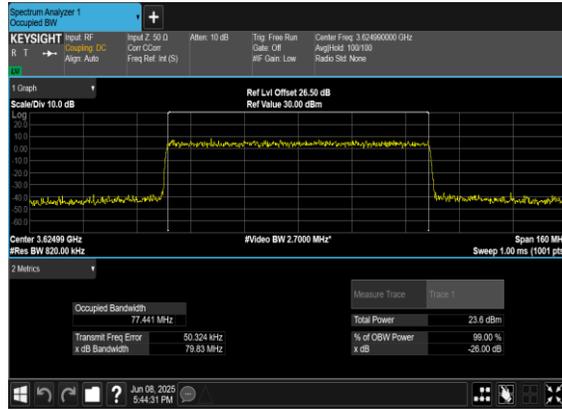### N78(80M)_CP-OFDM_256 QAM_Outer_Full_Low_CH

N78(80M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

N78(80M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

N78(80M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

N78(80M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH