



SAR TEST REPORT

Product Name: 5G Smart phone

Model Name: TANK3 PRO, TANK3, Titan P30000 Ultra 5G

FCC ID: 2BAVY-TANK3PRO

Issued For : Shenzhen OBLUE Communication Technology Co.,Ltd.

Room 702, Hepingdayou industrial and trade industrial park,
No. 41, Yonghe Road, Heping Community, Fuhai Street,
Baoan District, Shenzhen City,China

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Zhenxiong Industrial Park,
No.177, Renmin West Road, Jinsha, Kengzi Street,
Pingshan District, Shenzhen, Guangdong, China

Report Number: LGT24B027HA03

Sample Received Date: Feb. 22, 2024

Date of Test: Feb. 23, 2024 ~ Mar. 18, 2024

Date of Issue: Apr. 10, 2024

Head:0.928 W/kg

Max. SAR (1g):

Body:1.014 W/kg

The test report is effective only with both signature and specialized stamp. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report only apply to the tested sample.



Table of Contents

1. General Information	5
1.1 EUT Description	5
1.2 Test Environment	9
1.3 Test Factory	9
2. Test Standards and Limits	10
3. SAR Measurement System	11
3.1 Definition of Specific Absorption Rate (SAR)	11
3.2 SAR System	11
4. Tissue Simulating Liquids	14
4.1 Simulating Liquids Parameter Check	14
5. SAR System Validation	16
5.1 Validation System	16
5.2 Validation Result	17
6. SAR Evaluation Procedures	18
7. EUT Antenna Location Sketch	19
7.1 SAR test exclusion consider table	20
8. EUT Test Position	29
8.1 Define Two Imaginary Lines on the Handset	29
8.2 Hotspot mode exposure position condition	30
9. Uncertainty	31
9.1 Measurement Uncertainty	31
10. Conducted Power Measurement	32
10.1 Test Result:	32
11. EUT and Test Setup Photo	187
11.1 EUT Photos	187
11.2 Setup Photos	190
12. SAR Result Summary	196
12.1 Head SAR	196
12.2 Body-worn and Hotspot SAR	204
12.3 Repeated SAR	216
12.4 Repeated SAR measurement	216
12.5 Simultaneous Multi-band Transmission Evaluation:	217
13. Equipment List	220
Appendix A. System Validation Plots	221
Appendix B. SAR Test Plots	261



Revision History

Rev.	Issue Date	Contents
00	Apr. 10, 2024	Initial Issue



TEST REPORT CERTIFICATION

Applicant Shenzhen OBLUE Communication Technology Co.,Ltd.
Room 702, Hepingdayou industrial and trade industrial park, No.
Address 41, Yonghe Road, Heping Community, Fuhai Street, Baoan
District, Shenzhen City,China

Manufacture Shenzhen OBLUE Communication Technology Co.,Ltd.
Room 702, Hepingdayou industrial and trade industrial park, No.
Address 41, Yonghe Road, Heping Community, Fuhai Street, Baoan
District, Shenzhen City,China

Product Name 5G Smart phone

Trademark 8849, Unihertz, iHunt

Model Name TANK3 PRO, TANK3, Titan P30000 Ultra 5G

Sample number LGT2402029-3

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
ANSI/IEEE Std. C95.1-1992 FCC 47 CFR Part 2 (2.1093) IEEE 1528: 2013	PASS

Prepared by:

Della He

Della He
Engineer

Approved by:

Vita Li

Vita Li
Manager





1. General Information

Environmental evaluation measurements of specific absorption rate (SAR) distributions in emulated human head and body tissues exposed to radio frequency (RF) radiation from wireless portable devices for compliance with the rules and regulations of the U.S. Federal Communications Commission (FCC).

1.1 EUT Description

Product Name	5G Smart phone
Trademark	8849,Unihertz,iHunt
Model Name	TANK3 PRO
Series Model	TANK3, Titan P30000 Ultra 5G
Model Difference	Different brand and model name TANK3 and Titan P30000 Ultra 5G support laser ranging, TANK3 PRO support projection
Device Category	Portable
Product stage	Production unit
RF Exposure Environment	General Population / Uncontrolled
Hardware Version	TANK3 PRO_20240216
Software Version	G91_V3.2
Battery	Rated Voltage:7.74V Capacity:10500mAh
Description test modes	SIM 1 and SIM 2 is a chipset unit and tested as single chipset, SIM 1 is used to tested
Modulation Type:	GSM: GSM Voice WCDMA: RMC, HSDPA, HSUPA Release 6 LTE: QPSK, 16QAM 5G NR: DFT-s-OFDM, CP-OFDM ($\pi/2$ shift BPSK, QPSK, 16QAM, 64QAM, 256QAM) 2.4G WLAN: 802.11b(DSSS): CCK, DQPSK, DBPSK 802.11n/g(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 5G WLAN: 802.11a/n(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 802.11ac (OFDM): BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM Bluetooth: GFSK + $\pi/4$ DQPSK+8DPSK BLE: GFSK NFC: FSK
Antenna Specification	GSM/WCDMA/CDMA/LTE/NR: FPC Antenna Bluetooth: FPC Antenna WLAN: FPC Antenna NFC: Coil Antenna
Operating Mode	Maximum continuous output
SIM Card	Support dual-SIM, dual standby, the multiple SIM card with two lines cannot trans mitting at the same time
Hotspot Mode	Support
DTM Mode	Not Support



Frequency Range	GSM 850: 824 ~ 849 MHz PCS 1900: 1850 ~ 1910 MHz WCDMA Band II: 1850 ~ 1910 MHz WCDMA Band IV:1710 ~ 1755 MHz WCDMA Band V: 824 ~ 849 MHz CDMA&EVDO: BC0: 824.70 MHz~ 848.31 MHz BC1: 1851.25 MHz~ 1908.75 MHz LTE Band 2:1850 ~1910MHz LTE Band 4:1710 ~1755MHz LTE Band 5:824 ~ 849MHz LTE Band 7:2500 ~ 2570MHz LTE Band 12:699~716MHz LTE Band 13:777~787MHz LTE Band 17:704 ~ 716MHz LTE Band 25:1850~1915MHz LTE Band 26:814~824MHz/824-849MHz LTE Band 38:2570~2620MHz LTE Band 40:2305~2315MHz/2350-2360MHz LTE Band 41:2496~2690MHz LTE Band 66:1710~1780MHz NR N2:1850 MHz ~ 1910 MHz NR N5:824 MHz ~ 849 MHz NR N7:2500 MHz ~2570 MHz NR N25:1850 MHz ~1915 MHz NR N38:2570 MHz ~2620 MHz NR N41:2496 MHz ~ 2690 MHz NR N77:3450 MHz ~ 3550 MHz, 3700 MHz ~ 3980 MHz NSA: B5+N41 WLAN 802.11b/g/n20: 2412 MHz ~ 2462 MHz WLAN 802.11n40: 2422 MHz ~ 2452 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5150 ~ 5250 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5250 ~ 5350 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5470 ~ 5725 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5725 ~ 5850 MHz Bluetooth: 2402 ~ 2480 MHz NFC:13.56MHz
-----------------	---



	Mode	Head (W/ kg)	Body Worn and Hotspot (W/ kg)
Max. Reported SAR(1g): (Limit:1.6W/kg) Test distance: Head:0mm Body:10mm	GSM 850	0.188	0.449
	PCS 1900	0.101	0.724
	WCDMA Band II	0.117	0.743
	WCDMA Band IV	0.079	0.450
	WCDMA Band V	0.168	0.296
	CDMA BC0	0.059	0.213
	CDMA BC1	0.053	0.457
	LTE Band 2	0.108	0.706
	LTE Band 4	0.047	0.439
	LTE Band 5	0.193	0.308
	LTE Band 7	0.076	0.620
	LTE Band 12	0.094	0.068
	LTE Band 13	0.152	0.163
	LTE Band 17	0.086	0.072
	LTE Band 25	0.171	0.682
	LTE Band 26	0.138	0.214
	LTE Band 38	0.083	0.588
	LTE Band 40	0.050	0.503
	LTE Band 41	0.090	0.507
	LTE Band 66	0.064	0.388
	2.4G WLAN ANT 1	0.144	0.100
	2.4G WLAN ANT 2	0.327	0.248
	2.4G WLAN MIMO	0.304	0.286
	5.2G WLAN ANT 1	0.177	0.155
	5.2G WLAN ANT 2	0.668	0.165
	5.2G WLAN MIMO	0.695	0.632
	5.3G WLAN ANT 1	0.167	0.178
	5.3G WLAN ANT 2	0.517	0.113
	5.3G WLAN MIMO	0.614	0.501
	5.6G WLAN ANT 1	0.342	0.172
	5.6G WLAN ANT 2	0.514	0.139
	5.6G WLAN MIMO	0.800	0.452
	5.8G WLAN ANT 1	0.206	0.243
	5.8G WLAN ANT 2	0.654	0.241
5.8G WLAN MIMO	0.928	0.561	
Bluetooth ^{NOTE4}	0.073	0.073	
NR SA N2	0.117	0.688	
NR SA N5	0.181	0.334	
NR SA N7	0.197	0.576	
NR SA N25	0.079	0.754	
NR SA N38	0.357	1.014	
NR SA N41	0.312	0.677	
NR SA N77	0.221	0.220	
NSA N41+B5	0.505	0.713	
1-g Sum SAR		1.433	1.575
<p>Note:</p> <ol style="list-style-type: none"> 1. The dual SIM card mobile has 2 SIM slots and supports dual SIM dual standby. The WWAN radio transmission will be enabled by either one SIM at a time (Single active) 2. After pre-scan two SIM cards power, we found test result of the SIM1 was the worse, so we chose SIM1 card to perform all tests. 3. The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power 4. The BT value was Estimated. 			



EN-DC SAR test summary:

Band	Mode	Head Max SAR	Head Test sum	Body Max SAR	Body Test sum
		(W/Kg)		(W/Kg)	
NSA N41+B5	SA N41	0.312	0.505	0.677	0.713
	LTE B5	0.193		0.036	



1.2 Test Environment

Ambient conditions in the SAR laboratory:

Items	Required
Temperature (°C)	18-25
Humidity (%RH)	30-70

1.3 Test Factory

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China
Accreditation Certificate	FCC Registration No.: 746540
	A2LA Certificate No.: 6727.01
	IC Registration No.: CN0136



2. Test Standards and Limits

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	ANSI/IEEE Std. C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz
3	IEEE Std. 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
4	FCC KDB 447498 D01 v06	Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies
5	FCC KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
6	FCC KDB 865664 D02 v01r02	RF Exposure Reporting
7	FCC KDB 941225 D01 v03r01	SAR Measurement Procedures for 3G Devices
8	FCC KDB 941225 D05 v02r05	SAR for LTE Devices
9	FCC KDB 941225 D06 v02r01	Hotspot Mode SAR
10	FCC KDB 648474 D04 v01r03	SAR Evaluation Considerations for Wireless Handsets
11	FCC KDB 248227 D01 Wi-Fi SAR v02r02	SAR Considerations for 802.11 Devices

(A). Limits for Occupational/Controlled Exposure (W/kg)

<u>Whole-Body</u>	<u>Partial-Body</u>	<u>Hands, Wrists, Feet and Ankles</u>
0.4	8.0	20.0

(B). Limits for General Population/Uncontrolled Exposure (W/kg)

<u>Whole-Body</u>	<u>Partial-Body</u>	<u>Hands, Wrists, Feet and Ankles</u>
0.08	1.6	4.0

NOTE: Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1 gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

Population/Uncontrolled Environments:

Are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

Occupational/Controlled Environments:

Are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure, (i.e. as a result of employment or occupation).

<p>NOTE</p> <p>GENERAL POPULATION/UNCONTROLLED EXPOSURE</p> <p>PARTIAL BODY LIMIT</p> <p>1.6 W/kg</p>



3. SAR Measurement System

3.1 Definition of Specific Absorption Rate (SAR)

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

$$SAR = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dv} \right)$$

SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

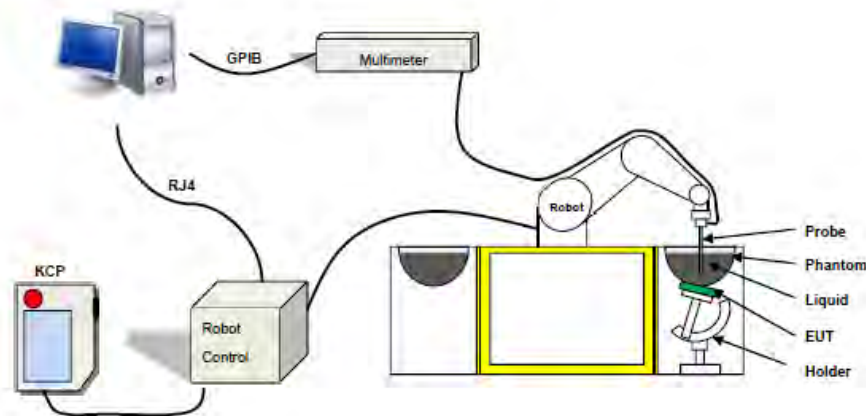
$$SAR = \frac{\sigma E^2}{\rho}$$

Where: σ is the conductivity of the tissue;

ρ is the mass density of the tissue and E is the RMS electrical field strength.

3.2 SAR System

MVG SAR System Diagram:



COMOSAR is a system that is able to determine the SAR distribution inside a phantom of human being according to different standards. The COMOSAR system consists of the following items:

- Main computer to control all the system
- 6 axis robot
- Data acquisition system
- Miniature E-field probe
- Phone holder
- Head simulating tissue



The following figure shows the system.



The EUT under test operating at the maximum power level is placed in the phone holder, under the phantom, which is filled with head simulating liquid. The E-Field probe measures the electric field inside the phantom. The OpenSAR software computes the results to give a SAR value in a 1g or 1g mass.

3.2.1 Probe

For the measurements the Specific Dosimetric E-Field Probe SN 04/22 EPG0364 with following specifications is used

- Probe Length: 330 mm
- Length of Individual Dipoles: 2mm
- Maximum external diameter: 8 mm
- Probe Tip External Diameter: 2.5 mm
- Distance between dipole/probe extremity: 1 mm
- Dynamic range: 0.01-100 W/kg
- Probe linearity: 3%
- Axial Isotropy: < 0.10 dB
- Spherical Isotropy: < 0.10 dB
- Calibration range: 600 MHz to 6 GHz for head & body simulating liquid.
- Angle between probe axis (evaluation axis) and surface normal line: less than 30°



Figure 1-MVG COMOSAR Dosimetric E field Probe



3.2.2 Phantom

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The phantom is a polyurethane shell integrated in a wooden table. The thickness of the phantom amounts to 2mm +/- 0.2mm. It enables the dosimetric evaluation of left and right phone usage and includes an additional flat phantom part for the simplified performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.

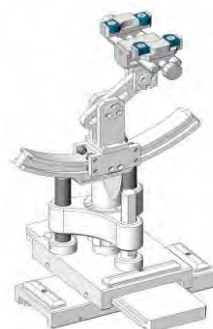


Figure-SN 06/22 SAM 148



Figure-SN 06/22 ELLI 51

3.2.3 Device Holder



The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source at 5 mm distance, a positioning uncertainty of ± 0.5 mm would produce a SAR uncertainty of ± 20 %. Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions in which the devices must be measured are defined by the standards.



4. Tissue Simulating Liquids

4.1 Simulating Liquids Parameter Check

The simulating liquids should be checked at the beginning of a series of SAR measurements to determine if the dielectric parameters are within the tolerances of the specified target values

The uncertainty due to the liquid conductivity and permittivity arises from two different sources. The first source of error is the deviation of the liquid conductivity from its target value (max _ 5 %) and the second source of error arises from the measurement procedures used to assess conductivity. The uncertainty shall be assessed using a rectangular probability For 1 g averaging, the maximum weighting coefficient for SAR is 0,5.

IEEE SCC-34/SC-2 RECOMMENDED TISSUE DIELECTRIC PARAMETERS

The head and body tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 have been incorporated in the following table.

Frequency	ϵ_r	σ 10g S/m
300	45.3	0.87
450	43.5	0.87
750	41.9	0.89
835	41.5	0.90
900	41.5	0.97
1450	40.5	1.20
1800 to 2000	40.0	1.40
2100	39.8	1.49
2450	39.2	1.80
2600	39.0	1.96
3000	38.5	2.40
3500	37.9	2.91
4000	37.4	3.43
4500	36.8	3.94
5000	36.2	4.45
5200	36.0	4.66
5400	35.8	4.86
5600	35.5	5.07
5800	35.3	5.27



LIQUID MEASUREMENT RESULTS

Date	Ambient		Simulating Liquid		Parameters	Target	Measured	Deviation %	Limited %
	Temp. [°C]	Humidity %	Frequency (MHz)	Temp. [°C]					
2024-02-27	21.3	49	750	21	Permittivity	41.90	42.46	1.34	±5
					Conductivity	0.89	0.88	-1.12	±5
2024-03-16	22.6	55	835	22.4	Permittivity	41.50	41.83	0.80	±5
					Conductivity	0.90	0.92	2.22	±5
2024-03-14	21.8	44	835	21.6	Permittivity	41.50	41.12	-0.92	±5
					Conductivity	0.90	0.93	3.33	±5
2024-02-25	21.9	41	1800	21.7	Permittivity	40.00	40.98	2.45	±5
					Conductivity	1.40	1.38	-1.43	±5
2024-02-26	22	56	1900	21.7	Permittivity	40.00	41.12	2.80	±5
					Conductivity	1.40	1.41	0.71	±5
2024-02-23	20.8	50	1900	20.6	Permittivity	40.00	40.36	0.90	±5
					Conductivity	1.40	1.38	-1.43	±5
2024-03-19	21.7	52	2300	21.4	Permittivity	39.47	40.45	2.49	±5
					Conductivity	1.67	1.69	1.40	±5
2024-02-24	23.5	59	2450	23.2	Permittivity	39.20	39.52	0.82	±5
					Conductivity	1.80	1.82	1.11	±5
2024-03-15	23.9	44	2600	23.6	Permittivity	39.00	39.78	2.00	±5
					Conductivity	1.96	1.93	-1.53	±5
2024-02-28	23	60	2600	22.6	Permittivity	39.00	39.39	1.00	±5
					Conductivity	1.96	1.95	-0.51	±5
2024-03-18	23	52	2600	22.7	Permittivity	39.00	39.77	1.97	±5
					Conductivity	1.96	1.98	1.02	±5
2024-03-17	22.9	59	3500	22.6	Permittivity	37.90	38.46	1.48	±5
					Conductivity	2.91	2.92	0.34	±5
2024-03-02	21	43	5200	20.7	Permittivity	36.00	36.38	1.06	±5
					Conductivity	4.66	4.65	-0.21	±5
2023-03-23	22.8	60	5200	22.4	Permittivity	36.00	37.29	3.58	±5
					Conductivity	4.66	4.68	0.43	±5
2024-03-21	21.8	58	5400	21.6	Permittivity	35.80	37.02	3.41	±5
					Conductivity	4.86	4.75	-2.26	±5
2024-03-23	22.8	60	5400	22.6	Permittivity	35.90	36.43	1.48	±5
					Conductivity	4.76	4.75	-0.21	±5
2024-03-20	21.1	41	5600	20.8	Permittivity	35.55	36.24	1.94	±5
					Conductivity	5.07	5.06	-0.10	±5
2024-03-24	21	50	5600	20.7	Permittivity	35.55	36.70	3.23	±5
					Conductivity	5.07	5.10	0.69	±5
2024-03-22	21.4	45	5800	21	Permittivity	35.30	36.27	2.75	±5
					Conductivity	5.27	5.24	-0.57	±5
2024-03-24	21.1	50	5800	20.8	Permittivity	35.30	36.46	3.29	±5
					Conductivity	5.27	5.32	0.95	±5

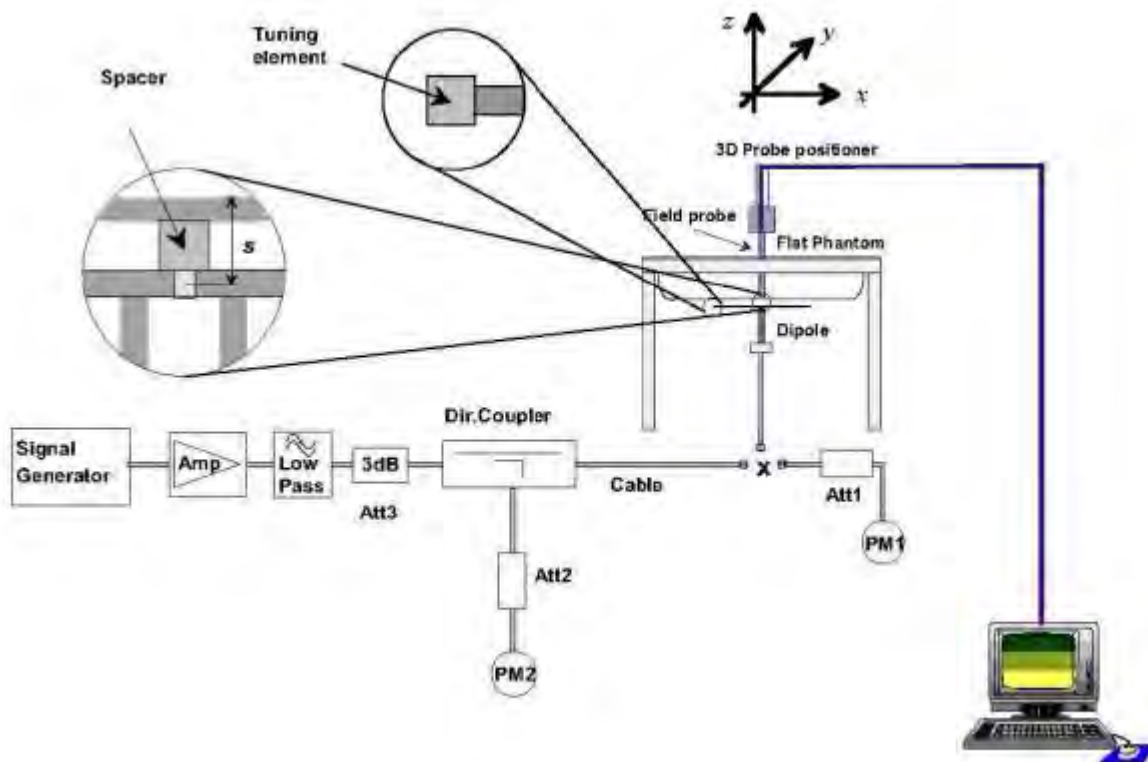


5. SAR System Validation

5.1 Validation System

Each MVG system is equipped with one or more system validation kits. These units, together with the predefined measurement procedures within the MVG software, enable the user to conduct the system performance check and system validation. System kit includes a dipole, and dipole device holder.

The system check verifies that the system operates within its specifications. It's performed daily or before every SAR measurement. The system check uses normal SAR measurement in the flat section of the phantom with a matched dipole at a specified distance. The system validation setup is shown as below.





5.2 Validation Result

Comparing to the original SAR value provided by MVG, the validation data should be within its specification of $\pm 10\%$.

Date	Freq.	Power	Tested Value	Normalized SAR	Target SAR	Tolerance	Limit
	(MHz)	(mW)	(W/Kg)	(W/kg)	1g(W/kg)	(%)	(%)
2024-02-27	750	100	0.819	8.19	8.49	-3.53	10
2024-03-16	835	100	0.902	9.02	9.63	-6.33	10
2024-03-14	835	100	0.878	8.78	9.63	-8.83	10
2024-02-25	1800	100	3.862	38.62	38.31	0.81	10
2024-02-26	1900	100	3.876	38.76	39.84	-2.71	10
2024-02-23	1900	100	3.922	39.22	39.84	-1.56	10
2024-03-19	2300	100	4.872	48.72	50.94	-4.36	10
2024-02-24	2450	100	5.141	51.41	54.70	-6.01	10
2024-03-15	2600	100	5.670	56.70	56.19	0.91	10
2024-02-28	2600	100	5.516	55.16	56.19	-1.83	10
2024-03-18	2600	100	5.605	56.05	56.19	-0.25	10
2024-03-17	3500	100	6.293	62.93	68.97	-8.76	10
2024-03-02	5200	100	7.808	78.08	77.64	0.57	10
2023-03-23	5200	100	7.789	77.89	77.64	0.32	10
2024-03-21	5400	100	8.137	81.37	80.27	1.37	10
2024-03-23	5400	100	8.150	81.50	80.27	1.53	10
2024-03-20	5600	100	7.866	78.66	78.35	0.40	10
2024-03-24	5600	100	7.926	79.26	78.35	1.16	10
2024-03-22	5800	100	7.511	75.11	74.92	0.25	10
2024-03-24	5800	100	7.348	73.48	74.92	-1.92	10

Note:

1. The tolerance limit of System validation $\pm 10\%$.
2. The dipole input power (forward power) was 100 mW.
3. The results are normalized to 1 W input power.



6. SAR Evaluation Procedures

The procedure for assessing the average SAR value consists of the following steps:

The following steps are used for each test position

- Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- Measurement of the SAR distribution with a grid of 8 to 16mm * 8 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.
- Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 * 32 mm is assessed by measuring 5 or 8 * 5 or 8*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

➤ Area Scan & Zoom Scan

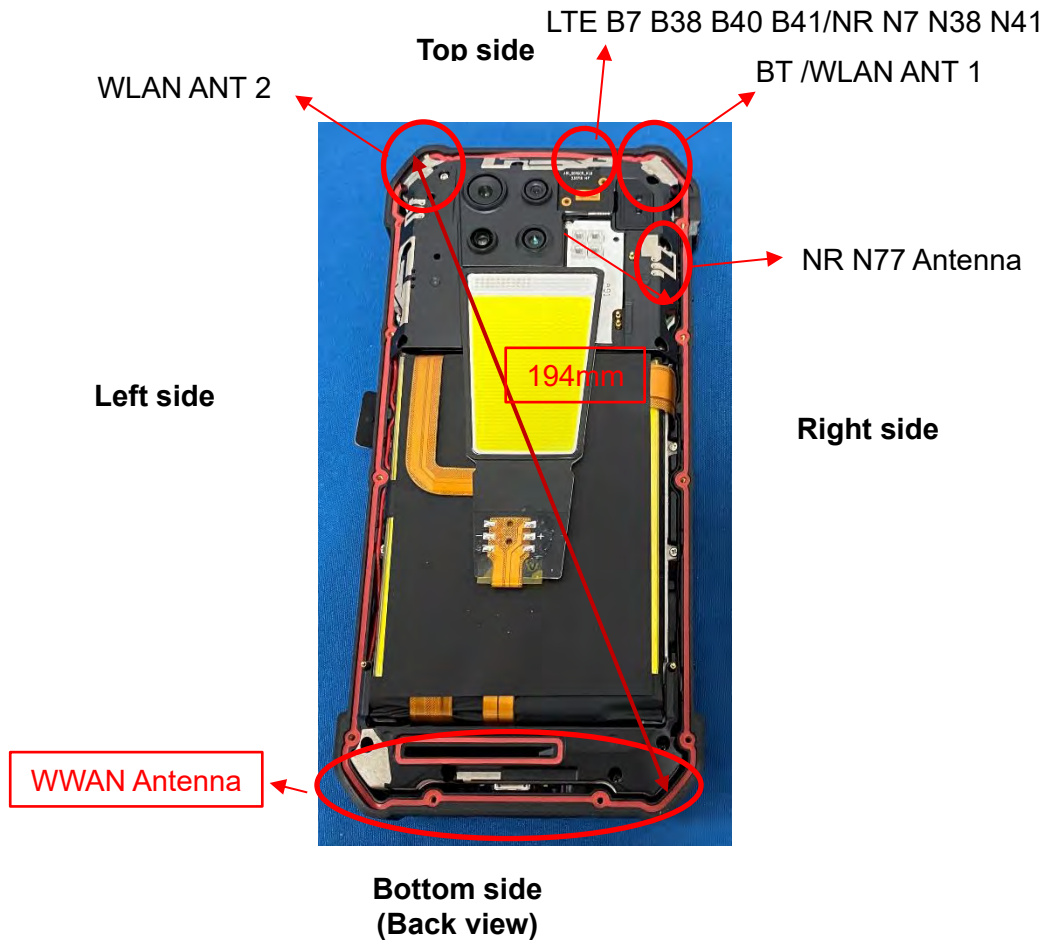
First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. Area scan and zoom scan resolution setting follows KDB 865664 D01 quoted below.

When the 1-g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.



7. EUT Antenna Location Sketch

It is a 5G Smart phone, support GSM/WCDMA/LTE/WLAN/BT mode.



Note 1: The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report.

ANT	Transmitting antenna located(mm)					
	Back Side	Front Side	Left Side	Right Side	Top Side	Bottom Side
GSM/WCDMA/CDMA/LTE	5	5	5	5	165	5
BT/WLAN ANT 1	5	5	65	5	5	160
WLAN ANT 2	5	5	5	65	5	160
LTE B7 B38 B40 B41/ NR N7 N38 N41	5	5	28	25	5	165
5G N77	5	5	70	5	33	132



7.1 SAR test exclusion consider table

The WWAN/WLAN/BT SAR evaluation of Maximum power (dBm) summing tolerance.

Exposure Position	Wireless Interface	GSM850	PCS1900	WCDMA II	WCDMA IV	WCDMA V
	Calculated Frequency (MHz)	836.6	1880	1880	1712.6	846.6
	Maximum Turn-up power (dBm)	34.5	32	24	25	24.5
	Maximum rated power(mW)	2818.38	1584.89	251.19	316.23	281.84
Back Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.40	10.94	10.94	11.46	16.30
	Testing required?	YES	YES	YES	YES	YES
Front Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.40	10.94	10.94	11.46	16.30
	Testing required?	YES	YES	YES	YES	YES
Left Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.40	10.94	10.94	11.46	16.30
	Testing required?	YES	YES	YES	YES	YES
Right Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.40	10.94	10.94	11.46	16.30
	Testing required?	YES	YES	YES	YES	YES
Top Edge	Separation distance (mm)	165	165	165	165	165
	exclusion threshold(mW)	805.39	1259.40	1259.40	1264.62	812.08
	Testing required?	YES	YES	NO	NO	NO
Bottom Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.40	10.94	10.94	11.46	16.30
	Testing required?	YES	YES	YES	YES	YES



Exposure Position	Wireless Interface	CDMA BC0	CDMA BC1	LTE Band 2	LTE Band 4	LTE Band 5
	Calculated Frequency (MHz)	836.52	1908.75	1880	1745	844
	Maximum Turn-up power (dBm)	24	23	25	25.5	25.5
	Maximum rated power(mW)	251.19	199.53	316.23	354.81	354.81
Back Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.40	10.86	10.94	11.36	16.33
	Testing required?	YES	YES	YES	YES	YES
Front Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.40	10.86	10.94	11.36	16.33
	Testing required?	YES	YES	YES	YES	YES
Left Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.40	10.86	10.94	11.36	16.33
	Testing required?	YES	YES	YES	YES	YES
Right Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.40	10.86	10.94	11.36	16.33
	Testing required?	YES	YES	YES	YES	YES
Top Edge	Separation distance (mm)	165	165	165	165	165
	exclusion threshold(mW)	805.34	1258.57	1259.40	1263.55	810.34
	Testing required?	NO	NO	NO	NO	NO
Bottom Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.40	10.86	10.94	11.36	16.33
	Testing required?	YES	YES	YES	YES	YES



Exposure Position	Wireless Interface	LTE Band 7	LTE Band 12	LTE Band 13	LTE Band 17	LTE Band 25
	Calculated Frequency (MHz)	2535	704	782	709	1860
	Maximum Turn-up power (dBm)	26	25	25	25.5	25.5
	Maximum rated power(mW)	398.11	316.23	316.23	354.81	354.81
Back Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	9.42	17.88	16.96	17.81	11.00
	Testing required?	YES	YES	YES	YES	YES
Front Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	9.42	17.88	16.96	17.81	11.00
	Testing required?	YES	YES	YES	YES	YES
Left Edge	Separation distance (mm)	25	5	5	5	5
	exclusion threshold(mW)	47.11	17.88	16.96	17.81	11.00
	Testing required?	YES	YES	YES	YES	YES
Right Edge	Separation distance (mm)	28	5	5	5	5
	exclusion threshold(mW)	52.76	17.88	16.96	17.81	11.00
	Testing required?	YES	YES	YES	YES	YES
Top Edge	Separation distance (mm)	5	165	165	165	165
	exclusion threshold(mW)	9.42	718.51	769.16	721.71	1259.99
	Testing required?	YES	NO	NO	NO	NO
Bottom Edge	Separation distance (mm)	165	5	5	5	5
	exclusion threshold(mW)	1244.21	17.88	16.96	17.81	11.00
	Testing required?	NO	YES	YES	YES	YES



Exposure Position	Wireless Interface	LTE Band 26	LTE Band 38	LTE Band 40	LTE Band 41	LTE Band 66
	Calculated Frequency (MHz)	841.5	2610	2310	2506	1745
	Maximum Turn-up power (dBm)	25	26.5	12.5	25.5	25
	Maximum rated power(mW)	316.23	446.68	17.78	354.81	316.23
Back Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.35	9.28	9.87	9.48	11.36
	Testing required?	YES	YES	YES	YES	YES
Front Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.35	9.28	9.87	9.48	11.36
	Testing required?	YES	YES	YES	YES	YES
Left Edge	Separation distance (mm)	5	25	25	25	5
	exclusion threshold(mW)	16.35	46.42	49.35	47.38	11.36
	Testing required?	YES	YES	NO	YES	YES
Right Edge	Separation distance (mm)	5	28	28	28	5
	exclusion threshold(mW)	16.35	51.99	55.27	53.06	11.36
	Testing required?	YES	YES	NO	YES	YES
Top Edge	Separation distance (mm)	165	5	5	5	165
	exclusion threshold(mW)	808.67	9.28	9.87	9.48	1263.55
	Testing required?	NO	YES	YES	YES	NO
Bottom Edge	Separation distance (mm)	5	165	165	165	5
	exclusion threshold(mW)	16.35	1242.85	1248.69	1244.75	11.36
	Testing required?	YES	NO	NO	NO	YES



Exposure Position	Wireless Interface	BLE	2.4G WLAN ANT 1	2.4G WLAN ANT 2	5.2G WLAN ANT 1	5.2G WLAN ANT 2
	Calculated Frequency (MHz)	2402	2412	2462	5210	5240
	Maximum Turn-up power (dBm)	2.5	16.5	15	7	9
	Maximum rated power(mW)	1.78	44.67	31.62	5.01	7.94
Back Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	9.68	9.66	9.56	6.57	6.55
	Testing required?	NO	YES	YES	NO	YES
Front Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	9.68	9.66	9.56	6.57	6.55
	Testing required?	NO	YES	YES	NO	YES
Left Edge	Separation distance (mm)	5	5	65	5	65
	exclusion threshold(mW)	9.68	9.66	245.60	6.57	215.53
	Testing required?	NO	YES	NO	NO	NO
Right Edge	Separation distance (mm)	65	65	5	65	5
	exclusion threshold(mW)	246.78	246.58	9.56	215.72	6.55
	Testing required?	NO	NO	YES	NO	YES
Top Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	9.68	9.66	9.56	6.57	6.55
	Testing required?	NO	YES	YES	NO	YES
Bottom Edge	Separation distance (mm)	160	160	160	160	160
	exclusion threshold(mW)	1196.78	1196.58	1195.60	1165.72	1165.53
	Testing required?	NO	NO	NO	NO	NO



Exposure Position	Wireless Interface	5.3G WLAN ANT 1	5.3G WLAN ANT 2	5.6G WLAN ANT 1	5.6G WLAN ANT 2	5.8G WLAN ANT 1	5.8G WLAN ANT 2
	Calculated Frequency (MHz)	5300	5320	5500	5500	5785	5745
	Maximum Turn-up power (dBm)	7	10	6.5	11	6.5	9.5
	Maximum rated power(mW)	5.01	10.00	4.47	12.59	4.47	8.91
Back Side	Separation distance (mm)	5	5	5	5	5	5
	exclusion threshold(mW)	6.52	6.50	6.40	6.40	6.24	6.26
	Testing required?	NO	YES	NO	YES	NO	YES
Front Side	Separation distance (mm)	5	5	5	5	5	5
	exclusion threshold(mW)	6.52	6.50	6.40	6.40	6.24	6.26
	Testing required?	NO	YES	NO	YES	NO	YES
Left Edge	Separation distance (mm)	5	65	5	65	5	65
	exclusion threshold(mW)	6.52	215.03	6.40	213.96	6.24	212.58
	Testing required?	NO	NO	NO	NO	NO	NO
Right Edge	Separation distance (mm)	65	5	65	5	65	5
	exclusion threshold(mW)	215.16	6.50	213.96	6.40	212.36	6.26
	Testing required?	NO	YES	NO	YES	NO	YES
Top Edge	Separation distance (mm)	5	5	5	5	5	5
	exclusion threshold(mW)	6.52	6.50	6.40	6.40	6.24	6.26
	Testing required?	NO	YES	NO	YES	NO	YES
Bottom Edge	Separation distance (mm)	160	160	160	160	160	160
	exclusion threshold(mW)	1165.16	1165.03	1163.96	1163.96	1162.36	1162.58
	Testing required?	NO	NO	NO	NO	NO	NO



Exposure Position	Wireless Interface	SA N2	SA N5	SA N7	SA N25
	Calculated Frequency (MHz)	1900	836.5	2510	1905
	Maximum Turn-up power (dBm)	24	24.5	24	24.5
	Maximum rated power(mW)	251.19	281.84	251.19	281.84
Back Side	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	10.88	16.40	9.47	10.87
	Testing required?	YES	YES	YES	YES
Front Side	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	10.88	16.40	9.47	10.87
	Testing required?	YES	YES	YES	YES
Left Edge	Separation distance (mm)	5	5	25	5
	exclusion threshold(mW)	10.88	16.40	47.34	10.87
	Testing required?	YES	YES	YES	YES
Right Edge	Separation distance (mm)	5	5	28	5
	exclusion threshold(mW)	10.88	16.40	53.02	10.87
	Testing required?	YES	YES	YES	YES
Top Edge	Separation distance (mm)	165	165	5	165
	exclusion threshold(mW)	1258.82	805.32	9.47	1258.68
	Testing required?	NO	NO	YES	NO
Bottom Edge	Separation distance (mm)	5	5	165	5
	exclusion threshold(mW)	10.88	16.40	1244.68	10.87
	Testing required?	YES	YES	NO	YES



Exposure Position	Wireless Interface	SA N38	SA N41	SA N77
	Calculated Frequency (MHz)	2600	2546.01	3500
	Maximum Turn-up power (dBm)	24	23	23
	Maximum rated power(mW)	251.19	199.53	199.53
Back Side	Separation distance (mm)	5	5	5
	exclusion threshold(mW)	9.30	9.40	8.02
	Testing required?	YES	YES	YES
Front Side	Separation distance (mm)	5	5	5
	exclusion threshold(mW)	9.30	9.40	8.02
	Testing required?	YES	YES	YES
Left Edge	Separation distance (mm)	25	25	5
	exclusion threshold(mW)	46.51	47.00	8.02
	Testing required?	YES	YES	YES
Right Edge	Separation distance (mm)	28	28	70
	exclusion threshold(mW)	52.09	52.64	280.18
	Testing required?	YES	YES	NO
Top Edge	Separation distance (mm)	5	5	33
	exclusion threshold(mW)	9.30	9.40	52.92
	Testing required?	YES	YES	YES
Bottom Edge	Separation distance (mm)	165	165	132
	exclusion threshold(mW)	1243.03	1244.01	900.18
	Testing required?	NO	NO	NO

Note:

1. maximum power is the source-based time-average power and represents the maximum RF output power among production units.
2. per KDB 447498 D01, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
3. per KDB 447498 D01, standalone SAR test exclusion threshold is applied; if the distance of the antenna to the user is <25mm,25mm is user to determine SAR exclusion threshold
4. per KDB 447498 D01, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distance ≤ 50 mm are determined by:

$$\frac{[(\text{max.power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance,}]}{}$$



mm)]* $\sqrt{f(\text{GHz})} \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, $f(\text{GHz})$ is the RF channel transmit frequency in GHz. Power and distance are rounded to the nearest mW and mm before calculation.

The result is rounded to one decimal place for comparison

For <50mm distance, we just calculate mW of the exclusion threshold value(3.0)to do compare

5. per KDB 447498 D01, at 100 MHz to 6GHz and for test separation distances >50mm, the SAR test exclusion threshold is determined according to the following
 - a) [threshold at 50mm in step 1]+(test separation distance -50mm)*(f (MHz)/150)]mW, at 100 MHz to 1500 MHz
 - b) [threshold at 50mm in step1]+(test separation distance -50mm) *10]mW at > 1500MHz and \leq 6GHz
6. Per KDB 248227 D01, choose the highest output power channel to test SAR and determine further SAR exclusion 8.for each frequency band ,testing at higher data rates and higher order modulations is not required when the maximum average output power for each of each of these configurations is less than 1/4db higher than those measured at the lower data rate than 11b mode ,thus the SAR can be excluded.

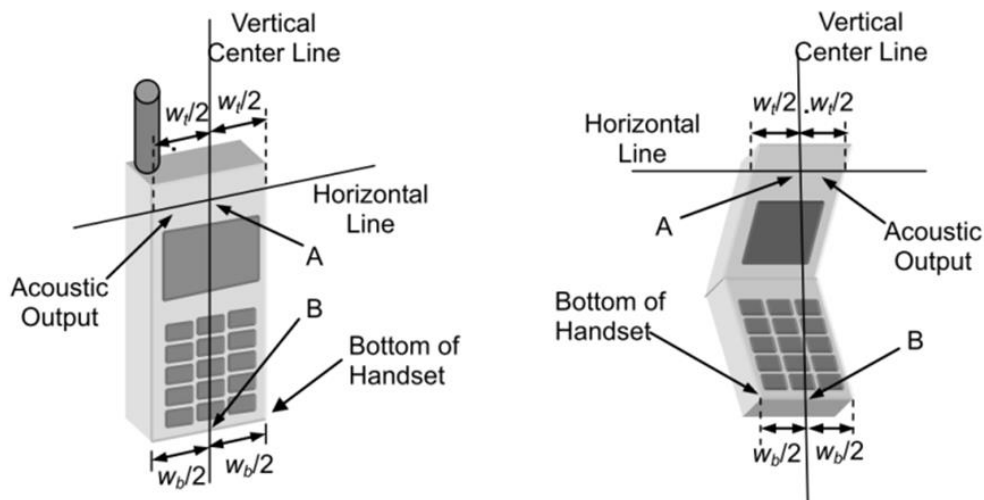


8. EUT Test Position

This EUT was tested in Right Cheek, Right Titled, Left Cheek, Left Titled, Front Face and Rear Face.

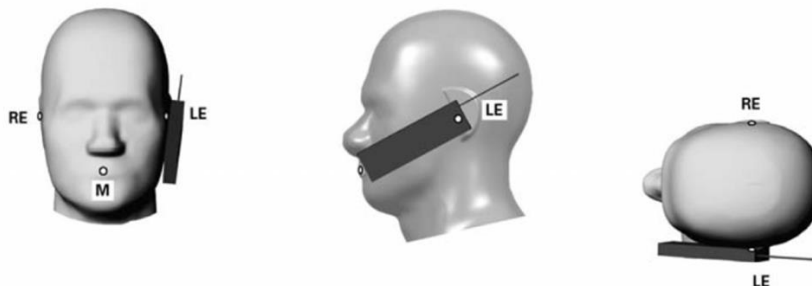
8.1 Define Two Imaginary Lines on the Handset

- (1) The vertical centerline passes through two points on the front side of the handset the midpoint of the width w_t of the handset at the level of the acoustic output, and the midpoint of the width w_b of the handset.
- (2) The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.
- (3) The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.



Cheek Position

- 1) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.
- 2) To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost





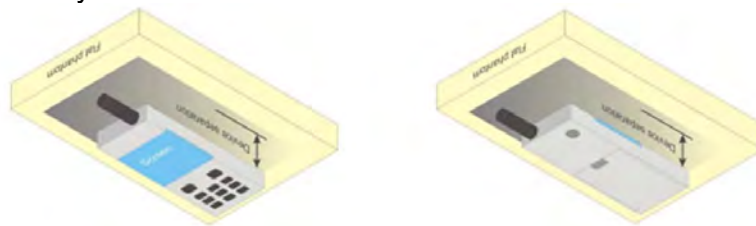
Title Position

- (1) To position the device in the “cheek” position described above.
- (2) While maintaining the device in the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until with the ear is lost.



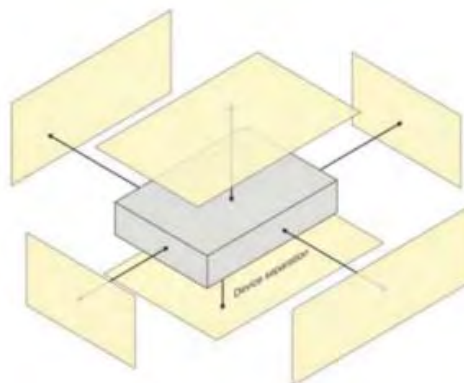
Body-worn Position Conditions:

Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in KDB Publication 447498 D01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. When the same wireless transmission configuration is used for testing body-worn accessory and hotspot mode SAR, respectively, in voice and data mode, SAR results for the most conservative *test separation distance* configuration may be used to support both SAR conditions. When the *reported SAR* for a body-worn accessory, measured without a headset connected to the handset, is $> 1.2 \text{ W/kg}$, the highest *reported SAR* configuration for that wireless mode and frequency band should be repeated for the body-worn accessory with a headset attached to the handset.



8.2 Hotspot mode exposure position condition

For handsets that support hotspot mode operations, with wireless router capabilities and various web browsing function, the relevant hand and body exposure condition are tested according to the hotspot SAR procedures in KDB 941225. A test separation distance of 10 mm is required between the phantom and all surface and edges with a transmitting antenna located within 25 mm from that surface or edge. When form factor of a handset is smaller than 9cm x 5cm, a test separation distance of 5mm (instead of 10mm) is required for testing hotspot mode. When the separate distance required for body-worn accessory testing is larger than or equal to that tested for hotspot mode, in the same wireless mode and for the same surface of the phone, the hotspot mode SAR data may be used to support body-worn accessory SAR compliance for that particular configuration (surface).





9. Uncertainty

9.1 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in IEEE 1528: 2013. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Symbol	Uncertainty Component	Prob. Dist.	Unc. $a(x_i)$	Div. q_i	$u(x_i) = a(x_i)/q_i$	C_i	$u(y) = C_i * u(x_i)$	v_i
Measurement system errors								
CF	Probe calibration	N ($k = 2$)	5.8	2	2.90	1	2.90	∞
CF _{drift}	Probe calibration drift	R	0.12	$\sqrt{3}$	0.07	1	0.07	∞
LIN	Probe linearity and detection limit	R	1.91	$\sqrt{3}$	1.10	1	1.10	∞
BBS	Broadband signal	R	0.15	$\sqrt{3}$	0.09	1	0.09	∞
ISO	Probe isotropy	R	0.18	$\sqrt{3}$	0.10	1	0.10	∞
DAE	Other probe and data acquisition errors	N	2.7	1	2.70	1	2.70	∞
AMB	RF ambient and noise	N	1.73	1	1.73	1	1.73	∞
Δ_{xyz}	Probe positioning errors	N	0.81	1	0.81	$2/\delta$	0.81	
DAT	Data processing errors	N	2.5	1	2.50	1	2.50	∞
Phantom and device (DUT or validation antenna) errors								
LIQ(σ)	Measurement of phantom conductivity(σ)	N	4.4	1	4.4	$c\epsilon, c\sigma$	4.40	∞
LIQ(T_c)	Temperature effects (medium)	R	2.9	$\sqrt{3}$	1.67	$c\epsilon, c\sigma$	1.67	∞
EPS	Shell permittivity	R	3.4	$\sqrt{3}$	1.96	See 8.4.2.3	0.49	∞
DIS	Distance between the radiating element of the DUT and the phantom medium	N	0.8	1	0.8	2	1.60	∞
D _{xyz}	Repeatability of positioning the DUT or source against the phantom	N	1.5	1	1.5	1	1.50	5
H	Device holder effects	N	3	1	3	1	3.00	
MOD	Effect of operating mode on probe sensitivity	R	3.59	$\sqrt{3}$	2.07	1	2.07	∞
TAS	Time-average SAR	R	1.73	$\sqrt{3}$	1.00	1	1.00	∞
RF _{drift}	Variation in SAR due to drift in output of DUT	N	2.89	1	2.89	1	2.89	
VAL	Validation antenna uncertainty (validation measurement only)	N	1.45	1	1.45	1	1.45	
P _{in}	Uncertainty in accepted power (validation measurement only)	N	2.5	1	2.5	1	2.50	
Corrections to the SAR result (if applied)								
C(ϵ', σ)	Phantom deviation from target (ϵ', σ)	N	2.31	1	2.31	1	2.31	
C(R)	SAR scaling	R	1.15	$\sqrt{3}$	0.66	1	0.66	
u(Δ SAR)	Combined uncertainty						9.53	
U	Expanded uncertainty and effective degrees of freedom					U =	19.06	



10. Conducted Power Measurement

10.1 Test Result

Burst Average Power (dBm)						
Band	GSM 850			PCS 1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8
GSM (GMSK, 1-Slot)	33.71	34.14	34.13	31.82	31.85	31.73
Remark: Multi-Slot Class 8, Support Max 4 downlink, 1 uplink, 5 working link Multi-Slot Class 10, Support Max 4 downlink, 2 uplink, 5 working link Multi-Slot Class 12, Support Max 4 downlink, 4 uplink, 5 working link						

Frame- Average Power(dBm)						
Band	GSM 850			PCS 1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8
GSM (GMSK, 1-Slot)	24.68	25.11	25.10	22.79	22.82	22.70
Remark: 1. SAR testing was performed on the maximum frame-averaged power mode. 2. The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum Burst - averaged power based on time slots. The calculated method is shown as below: Frame-averaged power = Burst averaged power (1 TX Slot) – 9.03 dB Frame-averaged power = Burst averaged power (2 TX Slots) – 6.02 dB Frame-averaged power = Burst averaged power (3 TX Slots) - 4.26 dB Frame-averaged power = Burst averaged power (4 TX Slots) – 3.01 dB						



WCDMA

Band	WCDMA Band 2			WCDMA Band 4			WCDMA Band 5		
Channel	9262	9400	9538	1312	1450	1513	4132	4182	4233
Frequency (MHz)	1852.4	1880	1907.6	1712.6	1740	1752.4	826.4	836.4	846.6
RMC 12.2Kbps	24.34	24.4	24.3	24.67	24.28	24.49	24.03	24	24.26
HSDPA Subtest-1	23.39	23.45	23.32	23.71	23.32	23.53	23.05	22.99	23.27
HSDPA Subtest-2	22.9	23.07	22.81	23.26	22.95	22.96	22.53	22.6	22.66
HSDPA Subtest-3	22.06	21.97	21.97	22.26	21.63	21.76	21.45	21.29	21.99
HSDPA Subtest-4	21.61	21.53	22	22.24	21.64	21.92	21.24	21.35	21.45
HSUPA Subtest-1	21.96	23.22	23.14	22.55	23.09	23.33	22.12	22.85	23.1
HSUPA Subtest-2	23.24	23.26	23.25	23.59	23.18	23.33	22.97	22.9	23.17
HSUPA Subtest-3	21.54	22.08	22.05	21.85	22	22.06	21.36	21.79	21.83
HSUPA Subtest-4	23.38	23.43	23.34	23.71	23.3	23.5	23.03	23.03	23.25
HSUPA Subtest-5	21.93	22.71	22.53	22.31	22.61	22.78	21.84	22.35	22.46

According to 3GPP 25.101 sub-clause 6.2.2, the maximum output power is allowed to be reduced by following the table.

Table 6.1A: UE maximum output power with HS-DPCCH and E-DCH

UE Transmit Channel Configuration	CM (db)	MPR (db)
For all combinations of ,DPDCH,DPCCH HS-DPDCH,E-DPDCH and E-DPCCH	$0 \leq CM \leq 3.5$	$MAX(CM-1,0)$
Note: $CM=1$ for $\beta_c/\beta_d=12/15$, $\beta_{hs}/\beta_c=24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.		

The device supports MPR to solve linearity issues (ACLR or SEM) due to the higher peak-to average ratios (PAR) of the HSUPA signal. This prevents saturating the full range of the TX DAC inside of device and provides a reduced power output to the RF transceiver chip according to the Cubic Metric (a function of the combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH).

When E-DPDCH channels are present the beta gains on those channels are reduced firsts to try to get the power under the allowed limit. If the beta gains are lowered as far as possible, then a hard limiting is applied at the maximum allowed level.

The SW currently recalculates the cubic metric every time the beta gains on the E-DPDCH are reduced. The cubic metric will likely get lower each time this is done .However, there is no reported reduction of maximum output power in the HSUPA mode since the device also provides a compensation for the power back-off by increasing the gain of TX_AGC in the transceiver (PA) device.

The end effect is that the DUT output power is identical to the case where there is no MPR in the device.



CDMA

CDMA BC0		
Mode	Frequency (MHz)	AVG Power
CDMA BC0	824.7	23.02
	836.52	23.58
	848.31	23.14
EVDO BC0	824.7	22.98
	836.52	23.07
	848.31	23.02

CDMA BC1		
Mode	Frequency (MHz)	AVG Power
CDMA BC1	1851.25	22.32
	1880	22.40
	1908.75	22.60
EVDO BC1	1851.25	22.12
	1880	22.35
	1908.75	22.52

2.4G WLAN

2.4G WIFI					
Mode	Channel Number	Frequency (MHz)	ANT A Power (dBm)	ANT B Power (dBm)	MIMO Power (dBm)
802.11b	1	2412	16.26	13.97	N/A
	7	2437	12.95	14.59	N/A
	11	2462	14.02	14.67	N/A
802.11g	1	2412	14.79	13.15	N/A
	7	2437	12.77	13.00	N/A
	11	2462	13.76	13.12	N/A
802.11n-HT20	1	2412	14.07	11.64	16.03
	7	2437	11.48	11.96	14.74
	11	2462	11.62	11.70	14.64
802.11n-HT40	3	2422	12.83	11.33	15.15
	6	2437	11.43	11.48	14.47
	9	2452	12.26	11.27	14.80
802.11ax-HET20	1	2412	13.14	9.85	14.81
	7	2437	10.31	10.41	13.37
	11	2462	9.99	10.48	13.09
802.11ac-VHT40	3	2422	11.65	10.05	13.93
	6	2437	13.29	10.23	13.29
	9	2452	12.08	9.84	14.11



Bluetooth

BT				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	2.06	1.61
	39	2441	0.53	1.13
	78	2480	1.69	1.48
$\pi/4$ -QPSK(2Mbps)	0	2402	1.47	1.40
	39	2441	0.06	1.01
	78	2480	1.05	1.27
8DPSK(3Mbps)	0	2402	1.87	1.54
	39	2441	0.52	1.13
	78	2480	1.63	1.46

BLE

BLE				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	2.07	1.61
	19	2440	0.28	1.07
	39	2480	1.58	1.44
GFSK(2Mbps)	0	2402	1.92	1.56
	19	2440	0.44	1.11
	39	2480	1.56	1.43



WLAN (5.2Gband)

5.2G WLAN					
Mode	Channel Number	Frequency (MHz)	ANT A Power (dBm)	ANT B Power (dBm)	MIMO Power (dBm)
802.11a20	36	5180	5.69	7.74	N/A
	40	5200	5.34	7.35	N/A
	48	5240	4.91	7.54	N/A
802.11n-HT20	36	5180	6.62	7.44	9.73
	40	5200	6.48	7.48	9.75
	48	5240	5.53	7.75	9.47
802.11n-HT40	38	5190	6.58	7.30	9.70
	46	5230	5.94	7.53	9.60
802.11ac-VHT20	36	5180	6.62	8.42	9.26
	40	5200	6.43	8.48	8.78
	48	5240	5.84	8.72	8.39
802.11ac-VHT40	38	5190	6.59	8.39	9.58
	46	5230	6.08	8.62	9.55
802.11ac-VHT80	42	5210	6.85	8.12	9.20
802.11ax-HE20	36	5180	6.36	8.44	9.31
	40	5200	6.31	8.61	9.48
	48	5240	5.55	8.81	9.06
802.11ax-HE40	38	5190	6.85	8.52	9.73
	46	5230	6.48	8.69	9.60
802.11ax-HE80	42	5210	5.98	8.17	9.22



WLAN (5.3G band)

5.3G WLAN					
Mode	Channel Number	Frequency (MHz)	ANT A Power (dBm)	ANT B Power (dBm)	MIMO Power (dBm)
802.11a20	52	5260	5.18	8.59	N/A
	60	5300	5.12	8.74	N/A
	64	5320	5.30	9.01	N/A
802.11n-HT20	52	5260	5.77	8.76	9.90
	60	5300	6.53	8.85	10.67
	64	5320	6.35	8.84	10.55
802.11n-HT40	54	5270	5.66	8.50	9.68
	62	5310	6.17	8.62	10.23
802.11ac-VHT20	52	5260	6.31	9.63	8.71
	60	5300	6.29	9.75	9.38
	64	5320	6.35	9.91	9.51
802.11ac-VHT40	54	5270	6.40	9.43	9.71
	62	5310	6.28	9.62	10.30
802.11ac-VHT80	58	5290	5.97	9.31	9.69
802.11ax-HE20	52	5260	5.96	9.67	9.37
	60	5300	6.38	9.75	10.17
	64	5320	6.15	9.93	10.06
802.11ax-HE40	54	5270	6.23	9.55	9.51
	62	5310	6.44	9.85	10.08
802.11ax-HE80	54	5290	5.73	9.38	9.78



WLAN (5.6G band)

5.6G WLAN					
Mode	Channel Number	Frequency (MHz)	ANT A Power (dBm)	ANT B Power (dBm)	MIMO Power (dBm)
802.11a20	100	5500	4.70	9.58	N/A
	116	5580	4.22	8.54	N/A
	140	5700	4.44	7.87	N/A
802.11n-HT20	100	5500	5.61	9.56	10.66
	116	5580	4.89	8.69	9.96
	140	5700	5.18	7.95	9.49
802.11n-HT40	102	5510	5.33	9.09	10.22
	110	5550	5.49	9.24	10.46
	134	5670	5.66	8.11	9.80
802.11ac-VHT20	100	5500	6.02	10.50	10.09
	116	5580	5.36	9.80	9.66
	140	5700	5.52	9.36	9.21
802.11ac-VHT40	102	5510	5.73	10.15	10.09
	110	5550	5.56	10.26	10.45
	134	5670	5.74	9.50	9.94
802.11ac-VHT80	106	5530	5.59	10.00	10.23
	122	5610	5.56	9.45	9.75
802.11ax-HE20	100	5500	5.44	10.32	10.17
	116	5580	4.78	9.96	9.50
	140	5700	5.34	9.70	9.17
802.11ax-HE40	102	5510	5.66	10.19	10.34
	110	5550	5.56	10.27	10.47
	134	5670	5.68	9.65	9.82
802.11ax-HE80	106	5530	5.10	10.07	10.10
	122	5610	4.79	9.37	9.53



WLAN (5.8G band)

5.8G WLAN					
Mode	Channel Number	Frequency (MHz)	ANT A Power (dBm)	ANT B Power (dBm)	MIMO Power (dBm)
802.11a20	149	5745	4.67	7.75	N/A
	157	5785	4.69	7.74	N/A
	165	5825	4.29	7.02	N/A
802.11n-HT20	149	5745	5.35	7.89	9.55
	157	5785	6.15	7.70	10.00
	165	5825	4.80	6.98	8.86
802.11n-HT40	151	5755	5.65	7.74	9.60
	159	5795	5.40	7.61	9.20
802.11ac-VHT20	149	5745	5.95	9.29	9.77
	157	5785	6.03	9.07	9.70
	165	5825	5.32	7.99	8.89
802.11ac-VHT40	151	5755	5.97	9.05	9.52
	159	5795	5.92	8.74	9.49
802.11ac-VHT80	155	5775	5.66	8.72	9.29
802.11ax-HE20	149	5745	5.29	9.22	9.28
	157	5785	5.74	9.02	9.41
	165	5825	5.47	8.05	8.67
802.11ax-HE40	151	5755	5.58	9.28	9.51
	159	5795	5.56	9.00	9.33
802.11ax-HE80	155	5775	5.53	8.89	9.32



LTE Conducted Power

General Note:

1. Anritsu CMW500 base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
2. Per KDB 941225 D05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
3. Per KDB 941225 D05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
4. Per KDB 941225 D05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
6. Per KDB 941225 D05, 16QAM output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05, 16QAM SAR testing is not required.
7. Per KDB 941225 D05, Smaller bandwidth output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05, smaller bandwidth SAR testing is not required.



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.62	24.68	24.54
1.4	1	2		24.68	24.70	24.56
1.4	1	5		24.62	24.66	24.55
1.4	3	0		24.70	24.75	24.59
1.4	3	1		24.71	24.75	24.62
1.4	3	2		24.69	24.69	24.61
1.4	6	0		23.68	23.80	23.65
1.4	1	0	16-QAM	23.95	23.62	23.82
1.4	1	2		23.94	23.66	23.82
1.4	1	5		23.96	23.63	23.81
1.4	3	0		23.88	23.90	23.83
1.4	3	1		23.88	23.91	23.85
1.4	3	2		23.89	23.87	23.83
1.4	6	0		22.86	22.92	22.79
3	1	0	QPSK	24.80	24.64	24.56
3	1	7		24.78	24.65	24.65
3	1	14		24.77	24.61	24.66
3	8	0		23.65	23.66	23.64
3	8	4		23.72	23.68	23.63
3	8	7		23.69	23.64	23.60
3	15	0		23.70	23.67	23.67
3	1	0	16-QAM	24.11	23.90	23.53
3	1	7		24.14	23.95	23.56
3	1	14		24.09	23.91	23.56
3	8	0		22.73	22.74	22.66
3	8	4		22.75	22.72	22.66
3	8	7		22.72	22.68	22.62
3	15	0		22.75	22.65	22.72



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.85	24.73	24.69
5	1	12		24.84	24.72	24.75
5	1	24		24.87	24.72	24.80
5	12	0		23.75	23.77	23.66
5	12	6		23.70	23.75	23.64
5	12	11		23.66	23.71	23.60
5	25	0		23.71	23.74	23.64
5	1	0	16-QAM	24.23	24.03	23.97
5	1	12		24.21	24.06	23.99
5	1	24		24.19	24.05	24.08
5	12	0		22.70	22.79	22.64
5	12	6		22.65	22.79	22.62
5	12	11		22.64	22.74	22.56
5	25	0		22.71	22.72	22.63
10	1	0	QPSK	24.69	24.83	24.46
10	1	24		24.76	24.85	24.57
10	1	49		24.70	24.78	24.61
10	25	0		23.71	23.78	23.61
10	25	12		23.75	23.76	23.63
10	25	24		23.69	23.72	23.62
10	50	0		23.70	23.72	23.63
10	1	0	16-QAM	23.64	24.10	23.69
10	1	24		23.67	24.14	23.76
10	1	49		23.64	24.10	23.84
10	25	0		22.72	22.75	22.61
10	25	12		22.74	22.75	22.64
10	25	24		22.68	22.77	22.63
10	50	0		22.66	22.73	22.63



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	24.78	24.78	24.40
15	1	37		24.78	24.82	24.49
15	1	74		24.78	24.70	24.51
15	36	0		23.64	23.64	23.55
15	36	18		23.67	23.73	23.60
15	36	39		23.66	23.62	23.56
15	75	0		23.69	23.67	23.55
15	1	0	16-QAM	23.83	24.06	23.69
15	1	38		23.87	24.12	23.76
15	1	75		23.88	24.05	23.81
15	36	0		22.65	22.74	22.61
15	36	18		22.65	22.78	22.68
15	36	39		22.66	22.67	22.69
15	75	0		22.74	22.67	22.58
20	1	0	QPSK	24.49	24.76	24.56
20	1	49		24.59	24.89	24.61
20	1	99		24.58	24.77	24.63
20	50	0		23.72	23.73	23.62
20	50	24		23.74	23.75	23.65
20	50	49		23.77	23.69	23.57
20	100	0		23.72	23.70	23.60
20	1	0	16-QAM	23.90	24.10	23.71
20	1	49		24.02	24.24	23.78
20	1	99		24.01	24.08	23.81
20	50	0		22.71	22.74	22.54
20	50	24		22.73	22.81	22.60
20	50	49		22.78	22.67	22.54
20	100	0		22.68	22.63	22.52



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.75	24.25	24.39
1.4	1	2		24.71	24.30	24.48
1.4	1	5		24.71	24.25	24.40
1.4	3	0		24.67	24.22	24.53
1.4	3	1		24.68	24.20	24.51
1.4	3	2		24.68	24.19	24.51
1.4	6	0		23.74	23.28	23.51
1.4	1	0	16-QAM	23.61	23.44	23.76
1.4	1	2		23.66	23.45	23.74
1.4	1	5		23.65	23.43	23.74
1.4	3	0		23.84	23.44	23.68
1.4	3	1		23.86	23.45	23.69
1.4	3	2		23.87	23.41	23.68
1.4	6	0		22.83	22.41	22.66
3	1	0	QPSK	24.80	24.23	24.52
3	1	7		24.81	24.22	24.60
3	1	14		24.77	24.17	24.57
3	8	0		23.65	23.26	23.54
3	8	4		23.69	23.23	23.54
3	8	7		23.68	23.19	23.51
3	15	0		23.71	23.20	23.55
3	1	0	16-QAM	24.09	23.52	23.48
3	1	7		24.11	23.52	23.50
3	1	14		24.10	23.51	23.44
3	8	0		22.74	22.27	22.53
3	8	4		22.74	22.27	22.52
3	8	7		22.74	22.23	22.53
3	15	0		22.76	22.17	22.60



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.83	24.41	24.53
5	1	12		24.85	24.41	24.56
5	1	24		24.84	24.44	24.58
5	12	0		23.75	23.29	23.55
5	12	6		23.69	23.28	23.57
5	12	11		23.74	23.24	23.56
5	25	0		23.69	23.29	23.58
5	1	0	16-QAM	24.15	23.82	23.84
5	1	12		24.18	23.80	23.84
5	1	24		24.16	23.79	23.84
5	12	0		22.73	22.22	22.59
5	12	6		22.67	22.20	22.61
5	12	11		22.69	22.18	22.62
5	25	0		22.65	22.31	22.56
10	1	0	QPSK	24.64	24.39	24.52
10	1	24		24.69	24.39	24.61
10	1	49		24.55	24.32	24.66
10	25	0		23.65	23.34	23.47
10	25	12		23.66	23.27	23.56
10	25	24		23.68	23.22	23.60
10	50	0		23.72	23.30	23.54
10	1	0	16-QAM	23.86	23.30	23.85
10	1	24		23.93	23.24	23.94
10	1	49		23.79	23.22	23.93
10	25	0		22.69	22.35	22.49
10	25	12		22.71	22.24	22.55
10	25	24		22.74	22.22	22.64
10	50	0		22.74	22.28	22.55



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	24.73	24.23	24.36
15	1	37		24.73	24.21	24.65
15	1	74		24.48	24.17	24.63
15	36	0		23.62	23.29	23.37
15	36	18		23.57	23.23	23.45
15	36	39		23.55	23.25	23.50
15	75	0		23.61	23.25	23.47
15	1	0	16-QAM	24.05	23.54	23.42
15	1	38		24.04	23.50	23.71
15	1	75		23.85	23.48	23.72
15	36	0		22.66	22.41	22.34
15	36	18		22.66	22.31	22.44
15	36	39		22.59	22.32	22.54
15	75	0		22.61	22.25	22.52
20	1	0	QPSK	24.93	24.99	24.68
20	1	49		24.95	24.88	25.04
20	1	99		24.67	24.98	25.02
20	50	0		24.11	23.90	23.78
20	50	24		24.09	23.80	24.01
20	50	49		23.92	23.77	24.12
20	100	0		24.02	23.79	23.91
20	1	0	16-QAM	24.42	24.36	23.87
20	1	49		24.43	24.29	24.19
20	1	99		24.09	24.37	24.20
20	50	0		23.09	22.90	22.77
20	50	24		23.12	22.80	22.95
20	50	49		22.97	22.82	23.07
20	100	0		22.98	22.79	22.93



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.30	24.39	24.39
1.4	1	2		24.35	24.43	24.45
1.4	1	5		24.32	24.38	24.42
1.4	3	0		24.29	24.30	24.45
1.4	3	1		24.30	24.30	24.47
1.4	3	2		24.33	24.32	24.45
1.4	6	0		23.30	23.35	23.46
1.4	1	0	16-QAM	23.19	23.56	23.69
1.4	1	2		23.23	23.58	23.66
1.4	1	5		23.22	23.58	23.72
1.4	3	0		23.46	23.51	23.61
1.4	3	1		23.46	23.53	23.67
1.4	3	2		23.47	23.50	23.69
1.4	6	0		22.46	22.50	22.65
3	1	0	QPSK	24.27	24.25	24.41
3	1	7		24.36	24.34	24.50
3	1	14		24.30	24.33	24.49
3	8	0		23.30	23.21	23.40
3	8	4		23.27	23.29	23.44
3	8	7		23.32	23.32	23.38
3	15	0		23.29	23.29	23.44
3	1	0	16-QAM	23.73	23.48	23.34
3	1	7		23.79	23.59	23.40
3	1	14		23.72	23.58	23.39
3	8	0		22.36	22.26	22.43
3	8	4		22.31	22.29	22.45
3	8	7		22.31	22.35	22.42
3	15	0		22.30	22.26	22.54



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.29	24.28	24.47
5	1	12		24.35	24.37	24.53
5	1	24		24.36	24.34	24.58
5	12	0		23.37	23.25	23.42
5	12	6		23.32	23.31	23.41
5	12	11		23.21	23.33	23.39
5	25	0		23.35	23.31	23.41
5	1	0	16-QAM	23.64	23.62	23.92
5	1	12		23.70	23.72	23.96
5	1	24		23.71	23.70	24.01
5	12	0		22.28	22.27	22.40
5	12	6		22.24	22.32	22.43
5	12	11		22.18	22.27	22.35
5	25	0		22.36	22.28	22.44
10	1	0	QPSK	24.78	24.76	24.84
10	1	24		24.87	24.89	24.91
10	1	49		24.81	24.89	25.02
10	25	0		23.86	23.64	23.83
10	25	12		23.76	23.84	23.90
10	25	24		23.89	23.82	23.93
10	50	0		23.90	23.78	23.91
10	1	0	16-QAM	23.65	24.13	24.00
10	1	24		23.69	24.33	24.08
10	1	49		23.67	24.34	24.17
10	25	0		22.83	22.67	22.85
10	25	12		22.77	22.88	22.92
10	25	24		22.89	22.88	22.93
10	50	0		22.86	22.74	22.89



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.99	25.22	23.85
5	1	12		24.86	25.07	23.29
5	1	24		24.83	24.99	22.85
5	12	0		24.90	25.23	23.59
5	12	6		24.85	25.17	23.32
5	12	11		24.79	25.11	23.03
5	25	0		24.86	25.17	23.32
5	1	0	16-QAM	25.05	25.32	24.14
5	1	12		24.92	25.18	23.62
5	1	24		24.90	25.12	23.19
5	12	0		24.42	24.29	23.50
5	12	6		24.37	24.27	23.23
5	12	11		24.35	24.23	22.96
5	25	0		24.48	24.24	23.23
10	1	0	QPSK	24.78	25.21	24.34
10	1	24		24.85	25.26	23.78
10	1	49		24.91	25.18	22.97
10	25	0		24.88	25.21	24.16
10	25	12		24.92	25.23	23.84
10	25	24		24.98	25.22	23.44
10	50	0		24.93	25.23	23.82
10	1	0	16-QAM	24.76	24.78	24.55
10	1	24		24.84	24.84	24.03
10	1	49		24.91	24.78	23.27
10	25	0		24.47	24.27	24.09
10	25	12		24.45	24.26	23.78
10	25	24		24.49	24.29	23.40
10	50	0		24.47	24.26	23.75



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	24.90	25.11	24.62
15	1	37		24.91	25.09	24.13
15	1	74		24.97	24.92	22.98
15	36	0		24.88	25.19	24.53
15	36	18		24.88	25.17	24.18
15	36	39		24.93	25.13	23.63
15	75	0		24.90	25.16	24.11
15	1	0	16-QAM	24.79	25.30	24.64
15	1	38		24.81	25.30	24.17
15	1	75		24.87	25.17	23.08
15	36	0		24.38	24.27	24.23
15	36	18		24.35	24.28	24.16
15	36	39		24.37	24.21	23.64
15	75	0		24.44	24.22	24.03
20	1	0	QPSK	25.36	25.70	25.16
20	1	49		25.42	25.71	24.94
20	1	99		25.43	25.61	24.37
20	50	0		25.12	25.46	25.08
20	50	24		25.35	25.62	24.99
20	50	49		25.26	25.23	23.48
20	100	0		25.37	25.63	24.76
20	1	0	16-QAM	24.94	24.80	24.63
20	1	49		24.97	24.85	24.64
20	1	99		24.92	24.74	24.30
20	50	0		25.15	25.54	25.00
20	50	24		25.39	25.70	24.91
20	50	49		25.29	25.36	23.51
20	100	0		24.91	24.73	24.54



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.44	24.38	24.32
1.4	1	2		24.53	24.39	24.39
1.4	1	5		24.44	24.35	24.34
1.4	3	0		24.47	24.42	24.32
1.4	3	1		24.45	24.40	24.32
1.4	3	2		24.46	24.40	24.30
1.4	6	0		23.47	23.38	23.39
1.4	1	0	16-QAM	23.68	23.63	23.22
1.4	1	2		23.76	23.66	23.30
1.4	1	5		23.71	23.62	23.25
1.4	3	0		23.67	23.60	23.51
1.4	3	1		23.68	23.61	23.51
1.4	3	2		23.65	23.60	23.51
1.4	6	0		22.63	22.54	22.50
3	1	0	QPSK	24.46	24.46	24.30
3	1	7		24.54	24.43	24.30
3	1	14		24.51	24.37	24.24
3	8	0		23.47	23.37	23.30
3	8	4		23.45	23.43	23.29
3	8	7		23.45	23.36	23.30
3	15	0		23.47	23.35	23.30
3	1	0	16-QAM	23.42	23.84	23.55
3	1	7		23.43	23.87	23.56
3	1	14		23.38	23.80	23.52
3	8	0		22.46	22.35	22.36
3	8	4		22.46	22.41	22.33
3	8	7		22.45	22.36	22.34
3	15	0		22.54	22.41	22.29



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.46	24.47	24.38
5	1	12		24.51	24.53	24.42
5	1	24		24.52	24.48	24.55
5	12	0		23.43	23.43	23.34
5	12	6		23.47	23.43	23.34
5	12	11		23.46	23.39	23.28
5	25	0		23.44	23.38	23.35
5	1	0	16-QAM	23.76	23.87	23.77
5	1	12		23.81	23.91	23.79
5	1	24		23.87	23.85	23.89
5	12	0		22.46	22.38	22.27
5	12	6		22.50	22.42	22.27
5	12	11		22.48	22.36	22.20
5	25	0		22.44	22.35	22.36
10	1	0	QPSK	24.60	24.41	24.44
10	1	24		24.55	24.43	24.45
10	1	49		24.48	24.39	24.44
10	25	0		23.44	23.41	23.39
10	25	12		23.46	23.38	23.41
10	25	24		23.49	23.37	23.36
10	50	0		23.47	23.38	23.42
10	1	0	16-QAM	23.93	23.58	23.34
10	1	24		23.95	23.63	23.30
10	1	49		23.86	23.55	23.31
10	25	0		22.44	22.40	22.42
10	25	12		22.49	22.40	22.38
10	25	24		22.47	22.33	22.34
10	50	0		22.45	22.40	22.34



LTE Band 13 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.38	24.33	24.18
5	1	12		24.41	24.30	24.20
5	1	24		24.34	24.26	24.13
5	12	0		23.25	23.19	23.19
5	12	6		23.27	23.24	23.16
5	12	11		23.34	23.19	23.11
5	25	0		23.28	23.21	23.21
5	1	0	16-QAM	23.81	23.71	23.54
5	1	12		23.82	23.69	23.52
5	1	24		23.79	23.58	23.50
5	12	0		22.17	22.16	22.21
5	12	6		22.28	22.17	22.18
5	12	11		22.29	22.08	22.11
5	25	0		22.25	22.22	22.13
10	1	0	QPSK	/	24.80	/
10	1	24		/	24.78	/
10	1	49		/	24.65	/
10	25	0		/	23.62	/
10	25	12		/	23.69	/
10	25	24		/	23.66	/
10	50	0		/	23.68	/
10	1	0	16-QAM	/	24.19	/
10	1	24		/	24.18	/
10	1	49		/	24.11	/
10	25	0		/	22.71	/
10	25	12		/	22.75	/
10	25	24		/	22.67	/
10	50	0		/	22.64	/



LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.57	24.49	24.40
5	1	12		24.60	24.58	24.43
5	1	24		24.64	24.55	24.45
5	12	0		23.49	23.52	23.41
5	12	6		23.49	23.45	23.44
5	12	11		23.52	23.40	23.38
5	25	0		23.47	23.45	23.40
5	1	0	16-QAM	23.95	23.88	23.77
5	1	12		23.98	23.96	23.76
5	1	24		24.01	23.89	23.82
5	12	0		22.44	22.42	22.43
5	12	6		22.49	22.38	22.44
5	12	11		22.48	22.34	22.37
5	25	0		22.46	22.48	22.39
10	1	0	QPSK	24.97	25.00	24.98
10	1	24		25.10	25.04	24.98
10	1	49		24.94	24.98	24.95
10	25	0		23.93	23.98	23.96
10	25	12		23.96	24.00	23.94
10	25	24		23.95	23.94	23.89
10	50	0		23.95	24.00	23.97
10	1	0	16-QAM	23.86	24.38	24.16
10	1	24		23.94	24.42	24.16
10	1	49		23.82	24.30	24.11
10	25	0		22.92	22.97	22.98
10	25	12		22.93	23.01	22.98
10	25	24		22.93	22.96	22.92
10	50	0		22.92	22.95	22.97



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.35	24.31	24.29
1.4	1	2		24.37	24.37	24.27
1.4	1	5		24.33	24.31	24.24
1.4	3	0		24.36	24.39	24.30
1.4	3	1		24.37	24.39	24.32
1.4	3	2		24.36	24.40	24.31
1.4	6	0		23.39	23.37	20.74
1.4	1	0	16-QAM	23.64	23.63	22.45
1.4	1	2		23.64	23.63	22.11
1.4	1	5		23.63	23.61	21.83
1.4	3	0		23.59	23.58	20.95
1.4	3	1		23.60	23.58	20.70
1.4	3	2		23.59	23.58	20.28
1.4	6	0		22.53	22.55	20.60
3	1	0	QPSK	24.39	24.52	24.19
3	1	7		24.45	24.48	24.21
3	1	14		24.40	24.43	24.18
3	8	0		23.38	23.36	23.25
3	8	4		23.39	23.37	23.22
3	8	7		23.37	23.32	23.22
3	15	0		23.42	23.35	23.27
3	1	0	16-QAM	23.40	23.79	23.51
3	1	7		23.34	23.81	23.51
3	1	14		23.35	23.80	23.49
3	8	0		22.40	22.42	22.31
3	8	4		22.41	22.42	22.27
3	8	7		22.42	22.42	22.29
3	15	0		22.49	22.45	22.27



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.35	24.31	24.29
1.4	1	2		24.37	24.37	24.27
1.4	1	5		24.33	24.31	24.24
1.4	3	0		24.36	24.39	24.30
1.4	3	1		24.37	24.39	24.32
1.4	3	2		24.36	24.40	24.31
1.4	6	0		23.39	23.37	20.74
1.4	1	0	16-QAM	23.64	23.63	22.45
1.4	1	2		23.64	23.63	22.11
1.4	1	5		23.63	23.61	21.83
1.4	3	0		23.59	23.58	20.95
1.4	3	1		23.60	23.58	20.70
1.4	3	2		23.59	23.58	20.28
1.4	6	0		22.53	22.55	20.60
3	1	0	QPSK	24.39	24.52	24.19
3	1	7		24.45	24.48	24.21
3	1	14		24.40	24.43	24.18
3	8	0		23.38	23.36	23.25
3	8	4		23.39	23.37	23.22
3	8	7		23.37	23.32	23.22
3	15	0		23.42	23.35	23.27
3	1	0	16-QAM	23.40	23.79	23.51
3	1	7		23.34	23.81	23.51
3	1	14		23.35	23.80	23.49
3	8	0		22.40	22.42	22.31
3	8	4		22.41	22.42	22.27
3	8	7		22.42	22.42	22.29
3	15	0		22.49	22.45	22.27



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.35	24.31	24.29
1.4	1	2		24.37	24.37	24.27
1.4	1	5		24.33	24.31	24.24
1.4	3	0		24.36	24.39	24.30
1.4	3	1		24.37	24.39	24.32
1.4	3	2		24.36	24.40	24.31
1.4	6	0		23.39	23.37	20.74
1.4	1	0	16-QAM	23.64	23.63	22.45
1.4	1	2		23.64	23.63	22.11
1.4	1	5		23.63	23.61	21.83
1.4	3	0		23.59	23.58	20.95
1.4	3	1		23.60	23.58	20.70
1.4	3	2		23.59	23.58	20.28
1.4	6	0		22.53	22.55	20.60
3	1	0	QPSK	24.39	24.52	24.19
3	1	7		24.45	24.48	24.21
3	1	14		24.40	24.43	24.18
3	8	0		23.38	23.36	23.25
3	8	4		23.39	23.37	23.22
3	8	7		23.37	23.32	23.22
3	15	0		23.42	23.35	23.27
3	1	0	16-QAM	23.40	23.79	23.51
3	1	7		23.34	23.81	23.51
3	1	14		23.35	23.80	23.49
3	8	0		22.40	22.42	22.31
3	8	4		22.41	22.42	22.27
3	8	7		22.42	22.42	22.29
3	15	0		22.49	22.45	22.27



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	24.42	24.28	24.29
15	1	37		24.45	24.34	24.41
15	1	74		24.45	24.20	24.40
15	36	0		23.28	23.36	23.27
15	36	18		23.36	23.34	23.29
15	36	39		23.33	23.33	23.25
15	75	0		23.33	23.34	23.25
15	1	0	16-QAM	23.74	23.56	23.37
15	1	38		23.79	23.62	23.51
15	1	75		23.77	23.51	23.45
15	36	0		22.35	22.45	22.25
15	36	18		22.38	22.43	22.27
15	36	39		22.37	22.39	22.20
15	75	0		22.32	22.34	22.27
20	1	0	QPSK	24.92	24.83	24.52
20	1	49		25.00	24.95	24.69
20	1	99		24.97	24.79	24.66
20	50	0		23.84	23.95	23.74
20	50	24		23.89	23.96	23.87
20	50	49		23.92	23.83	23.67
20	100	0		23.91	23.81	23.72
20	1	0	16-QAM	24.26	24.07	23.96
20	1	49		24.36	24.10	24.11
20	1	99		24.33	24.01	24.07
20	50	0		22.92	22.91	22.78
20	50	24		22.94	22.93	22.88
20	50	49		22.96	22.78	22.72
20	100	0		22.90	22.81	22.68



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.35	24.30	24.19
1.4	1	2		24.41	24.38	24.24
1.4	1	5		24.30	24.34	24.18
1.4	3	0		24.37	24.24	24.22
1.4	3	1		24.35	24.27	24.21
1.4	3	2		24.34	24.29	24.22
1.4	6	0		23.32	23.31	23.20
1.4	1	0	16-QAM	23.26	23.50	23.42
1.4	1	2		23.28	23.52	23.44
1.4	1	5		23.23	23.48	23.43
1.4	3	0		23.50	23.48	23.44
1.4	3	1		23.51	23.49	23.46
1.4	3	2		23.48	23.45	23.44
1.4	6	0		22.47	22.43	22.37
3	1	0	QPSK	24.34	24.25	24.22
3	1	7		24.29	24.30	24.24
3	1	14		24.26	24.32	24.20
3	8	0		23.28	23.22	23.20
3	8	4		23.27	23.24	23.20
3	8	7		23.30	23.24	23.20
3	15	0		23.30	23.26	23.22
3	1	0	16-QAM	23.56	23.18	23.68
3	1	7		23.51	23.21	23.72
3	1	14		23.51	23.17	23.66
3	8	0		22.30	22.23	22.23
3	8	4		22.29	22.23	22.20
3	8	7		22.34	22.23	22.23
3	15	0		22.25	22.34	22.22



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.38	24.27	24.34
5	1	12		24.35	24.31	24.30
5	1	24		24.38	24.27	24.31
5	12	0		23.29	23.21	23.26
5	12	6		23.29	23.29	23.24
5	12	11		23.34	23.25	23.18
5	25	0		23.35	23.29	23.24
5	1	0	16-QAM	23.75	23.61	23.84
5	1	12		23.74	23.66	23.81
5	1	24		23.74	23.65	23.81
5	12	0		22.23	22.23	22.22
5	12	6		22.23	22.32	22.23
5	12	11		22.31	22.28	22.15
5	25	0		22.37	22.25	22.22
10	1	0	QPSK	/	24.86	/
10	1	24		/	24.88	/
10	1	49		/	24.81	/
10	25	0		/	23.69	/
10	25	12		/	23.79	/
10	25	24		/	23.72	/
10	50	0		/	23.75	/
10	1	0	16-QAM	/	23.73	/
10	1	24		/	23.72	/
10	1	49		/	23.63	/
10	25	0		/	22.69	/
10	25	12		/	22.77	/
10	25	24		/	22.73	/
10	50	0		/	22.70	/



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.38	24.28	24.42
1.4	1	2		24.38	24.33	24.50
1.4	1	5		24.39	24.28	24.43
1.4	3	0		24.30	24.33	24.47
1.4	3	1		24.29	24.31	24.46
1.4	3	2		24.32	24.32	24.47
1.4	6	0		23.29	23.29	23.44
1.4	1	0	16-QAM	23.54	23.56	23.31
1.4	1	2		23.52	23.54	23.37
1.4	1	5		23.53	23.58	23.36
1.4	3	0		23.48	23.53	23.61
1.4	3	1		23.51	23.55	23.61
1.4	3	2		23.48	23.54	23.57
1.4	6	0		22.45	22.46	22.59
3	1	0	QPSK	24.29	24.27	24.39
3	1	7		24.32	24.25	24.48
3	1	14		24.27	24.32	24.47
3	8	0		23.31	23.22	23.41
3	8	4		23.28	23.28	23.39
3	8	7		23.28	23.26	23.35
3	15	0		23.33	23.27	23.46
3	1	0	16-QAM	23.71	23.51	23.33
3	1	7		23.79	23.50	23.35
3	1	14		23.72	23.53	23.35
3	8	0		22.31	22.26	22.43
3	8	4		22.32	22.30	22.45
3	8	7		22.27	22.28	22.44
3	15	0		22.33	22.25	22.45



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.30	24.23	24.47
5	1	12		24.35	24.29	24.50
5	1	24		24.42	24.35	24.57
5	12	0		23.38	23.24	23.44
5	12	6		23.28	23.29	23.42
5	12	11		23.25	23.31	23.35
5	25	0		23.35	23.28	23.42
5	1	0	16-QAM	23.67	23.61	23.93
5	1	12		23.74	23.66	23.95
5	1	24		23.75	23.72	24.00
5	12	0		22.33	22.31	22.43
5	12	6		22.21	22.32	22.41
5	12	11		22.18	22.30	22.33
5	25	0		22.35	22.25	22.37
10	1	0	QPSK	24.29	24.24	24.33
10	1	24		24.32	24.39	24.46
10	1	49		24.27	24.45	24.50
10	25	0		23.35	23.17	23.35
10	25	12		23.31	23.31	23.43
10	25	24		23.36	23.39	23.39
10	50	0		23.38	23.28	23.40
10	1	0	16-QAM	23.40	23.12	23.76
10	1	24		23.51	23.24	23.86
10	1	49		23.46	23.30	23.91
10	25	0		22.33	22.18	22.41
10	25	12		22.32	22.32	22.44
10	25	24		22.35	22.35	22.41
10	50	0		22.40	22.21	22.40



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	24.73	24.78	24.72
15	1	37		24.75	24.84	24.87
15	1	74		24.81	24.93	24.95
15	36	0		23.77	23.62	23.81
15	36	18		23.74	23.76	23.87
15	36	39		23.88	23.86	23.89
15	75	0		23.89	23.75	23.86
15	1	0	16-QAM	23.92	23.86	24.13
15	1	38		23.95	23.95	24.28
15	1	75		24.01	24.00	24.38
15	36	0		22.84	22.57	22.83
15	36	18		22.83	22.77	22.90
15	36	39		22.93	22.83	22.97
15	75	0		22.89	22.80	22.87



LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	25.98	25.89	26.28
5	1	12		26.05	25.97	26.34
5	1	24		26.03	25.94	26.34
5	12	0		25.09	24.97	24.98
5	12	6		25.09	25.00	25.00
5	12	11		25.09	25.02	25.02
5	25	0		25.07	25.01	24.99
5	1	0	16-QAM	25.20	25.16	25.53
5	1	12		25.24	25.27	25.46
5	1	24		25.23	25.23	25.51
5	12	0		23.97	23.99	23.98
5	12	6		23.97	24.02	23.97
5	12	11		24.00	24.04	23.99
5	25	0		24.09	23.99	23.97
10	1	0	QPSK	26.13	25.95	25.81
10	1	24		26.19	26.01	25.91
10	1	49		26.15	25.96	25.87
10	25	0		25.06	24.98	24.93
10	25	12		25.11	25.01	24.99
10	25	24		25.09	25.02	25.03
10	50	0		25.06	25.03	24.96
10	1	0	16-QAM	25.54	25.09	24.93
10	1	24		25.59	25.16	25.05
10	1	49		25.57	25.12	25.00
10	25	0		24.08	24.02	23.97
10	25	12		24.10	24.05	23.98
10	25	24		24.10	24.04	24.06
10	50	0		24.10	24.06	23.97



LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	26.06	25.85	26.16
15	1	37		26.11	25.96	26.23
15	1	74		26.11	25.87	26.20
15	36	0		24.96	24.95	24.89
15	36	18		24.99	25.00	24.93
15	36	39		25.01	24.98	24.95
15	75	0		24.97	25.02	24.94
15	1	0	16-QAM	25.46	25.06	25.03
15	1	38		25.51	25.18	25.10
15	1	75		25.49	25.08	25.08
15	36	0		24.08	24.06	23.91
15	36	18		24.09	24.09	23.95
15	36	39		24.10	24.10	23.97
15	75	0		24.00	23.95	23.98
20	1	0	QPSK	26.28	26.27	26.34
20	1	49		26.42	26.43	26.45
20	1	99		26.30	26.30	26.42
20	50	0		25.54	25.49	25.48
20	50	24		25.55	25.51	25.49
20	50	49		25.56	25.49	25.51
20	100	0		25.52	25.50	25.39
20	1	0	16-QAM	25.67	25.55	25.35
20	1	49		25.84	25.68	25.45
20	1	99		25.69	25.54	25.43
20	50	0		24.50	24.50	24.40
20	50	24		24.58	24.53	24.47
20	50	49		24.53	24.59	24.46
20	100	0		24.53	24.55	24.43



LTE Band 40 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	11.55	11.56	11.50
5	1	12		11.56	11.63	11.56
5	1	24		11.62	11.59	11.55
5	12	0		10.56	10.56	10.56
5	12	6		10.61	10.54	10.53
5	12	11		10.55	10.52	10.61
5	25	0		10.60	10.53	10.53
5	1	0	16-QAM	11.27	10.85	10.94
5	1	12		11.25	10.92	10.98
5	1	24		11.22	10.91	10.92
5	12	0		9.57	9.50	9.56
5	12	6		9.59	9.48	9.53
5	12	11		9.56	9.45	9.50
5	25	0		9.56	9.59	9.52
10	1	0	QPSK	/	11.97	/
10	1	24		/	12.08	/
10	1	49		/	12.03	/
10	25	0		/	11.14	/
10	25	12		/	11.06	/
10	25	24		/	11.07	/
10	50	0		/	11.09	/
10	1	0	16-QAM	/	11.58	/
10	1	24		/	11.62	/
10	1	49		/	11.55	/
10	25	0		/	10.09	/
10	25	12		/	10.04	/
10	25	24		/	10.08	/
10	50	0		/	10.10	/



LTE Band 40 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	11.43	11.39	11.41
5	1	12		11.48	11.47	11.42
5	1	24		11.46	11.48	11.40
5	12	0		10.40	10.33	10.40
5	12	6		10.40	10.41	10.43
5	12	11		10.38	10.39	10.46
5	25	0		10.48	10.46	10.45
5	1	0	16-QAM	11.07	10.76	10.79
5	1	12		11.13	10.74	10.84
5	1	24		11.15	10.77	10.86
5	12	0		9.42	9.36	9.42
5	12	6		9.40	9.37	9.46
5	12	11		9.40	9.38	9.46
5	25	0		9.41	9.42	9.44
10	1	0	QPSK	/	11.88	/
10	1	24		/	11.92	/
10	1	49		/	11.94	/
10	25	0		/	10.86	/
10	25	12		/	10.94	/
10	25	24		/	10.96	/
10	50	0		/	10.97	/
10	1	0	16-QAM	/	11.39	/
10	1	24		/	11.47	/
10	1	49		/	11.51	/
10	25	0		/	9.90	/
10	25	12		/	10.00	/
10	25	24		/	9.95	/
10	50	0		/	9.89	/



LTE Band 41 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle 1	Middle 2	Middle 3	Highest
5	1	0	QPSK	24.45	23.98	24.01	23.55	23.74
5	1	12		24.49	24.02	24.01	23.54	23.76
5	1	24		24.46	23.98	24.00	23.54	23.76
5	12	0		24.22	23.74	24.02	23.56	23.79
5	12	6		24.21	23.74	24.00	23.52	23.79
5	12	11		24.20	23.74	23.97	23.50	23.78
5	25	0		24.21	23.74	23.99	23.53	23.80
5	1	0	16-QAM	24.80	24.32	24.27	23.79	23.99
5	1	12		24.81	24.32	24.27	23.80	24.04
5	1	24		24.81	24.33	24.26	23.79	24.05
5	12	0		24.24	23.77	23.93	23.46	23.83
5	12	6		24.21	23.73	23.96	23.49	23.79
5	12	11		24.22	23.75	23.91	23.44	23.80
5	25	0		24.20	23.72	24.03	23.55	23.78
10	1	0	QPSK	24.20	23.72	23.96	23.49	23.83
10	1	24		24.23	23.76	24.02	23.55	23.83
10	1	49		24.22	23.74	23.95	23.48	23.84
10	25	0		24.15	23.68	23.99	23.53	23.84
10	25	12		24.18	23.70	23.98	23.50	23.81
10	25	24		24.21	23.73	23.98	23.51	23.81
10	50	0		24.22	23.74	24.01	23.54	23.83
10	1	0	16-QAM	24.35	23.87	24.00	23.53	24.34
10	1	24		24.35	23.88	24.07	23.61	24.35
10	1	49		24.34	23.86	24.01	23.54	24.37
10	25	0		24.21	23.73	24.01	23.54	23.85
10	25	12		24.22	23.74	24.04	23.57	23.85
10	25	24		24.24	23.76	24.02	23.56	23.84
10	50	0		24.25	23.78	23.99	23.51	23.85



LTE Band 41 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle 1	Middle 2	Middle 3	Highest
15	1	0	QPSK	24.16	23.70	23.91	23.43	23.89
15	1	37		24.23	23.75	23.99	23.53	23.93
15	1	74		24.17	23.69	23.91	23.45	23.89
15	36	0		24.09	23.63	23.93	23.45	23.81
15	36	18		24.14	23.68	23.95	23.49	23.79
15	36	39		24.15	23.68	23.98	23.52	23.80
15	75	0		24.17	23.70	24.00	23.52	23.80
15	1	0	16-QAM	24.66	24.18	24.08	23.62	23.98
15	1	38		24.74	24.25	24.16	23.69	24.00
15	1	75		24.68	24.20	24.04	23.58	23.94
15	36	0		24.18	23.70	24.04	23.57	23.83
15	36	18		24.24	23.77	24.04	23.57	23.83
15	36	39		24.22	23.74	24.06	23.58	23.81
15	75	0		24.18	23.71	23.97	23.49	23.84
20	1	0	QPSK	24.86	24.37	24.67	24.18	24.39
20	1	49		25.01	24.52	24.75	24.26	24.43
20	1	99		24.94	24.46	24.63	24.15	24.36
20	50	0		24.64	24.16	24.51	24.03	24.37
20	50	24		24.73	24.25	24.54	24.07	24.34
20	50	49		24.68	24.20	24.59	24.11	24.29
20	100	0		24.66	24.17	24.55	24.07	24.32
20	1	0	16-QAM	24.54	24.07	24.39	23.91	24.32
20	1	49		24.66	24.17	24.48	24.00	24.38
20	1	99		24.60	24.13	24.34	23.87	24.29
20	50	0		24.66	24.18	24.50	24.02	24.40
20	50	24		24.71	24.23	24.51	24.02	24.41
20	50	49		24.70	24.22	24.51	24.03	24.32
20	100	0		24.62	24.13	24.46	23.98	24.33



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.03	23.86	23.60
1.4	1	2		24.06	23.91	23.64
1.4	1	5		24.04	23.87	23.62
1.4	3	0		24.09	23.97	23.65
1.4	3	1		24.12	23.95	23.67
1.4	3	2		24.11	23.94	23.66
1.4	6	0		23.12	22.95	22.72
1.4	1	0	16-QAM	23.30	23.16	22.60
1.4	1	2		23.34	23.19	22.62
1.4	1	5		23.31	23.19	22.63
1.4	3	0		23.31	23.10	22.81
1.4	3	1		23.33	23.11	22.83
1.4	3	2		23.33	23.06	22.84
1.4	6	0		22.30	22.14	21.85
3	1	0	QPSK	24.03	23.98	23.71
3	1	7		24.06	24.04	23.72
3	1	14		24.06	24.04	23.78
3	8	0		23.09	22.92	22.59
3	8	4		23.13	22.94	22.61
3	8	7		23.10	22.94	22.61
3	15	0		23.12	22.95	22.63
3	1	0	16-QAM	23.32	22.92	22.98
3	1	7		23.36	22.94	23.07
3	1	14		23.35	22.95	23.03
3	8	0		22.15	21.99	21.65
3	8	4		22.14	21.95	21.68
3	8	7		22.13	21.95	21.66
3	15	0		22.09	22.02	21.68



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.29	23.97	23.62
5	1	12		24.30	24.04	23.69
5	1	24		24.37	24.08	23.76
5	12	0		23.14	22.98	22.67
5	12	6		23.13	23.00	22.63
5	12	11		23.13	22.97	22.63
5	25	0		23.16	22.99	22.67
5	1	0	16-QAM	23.66	23.23	23.00
5	1	12		23.68	23.26	23.07
5	1	24		23.71	23.31	23.12
5	12	0		22.06	21.98	21.60
5	12	6		22.06	22.01	21.61
5	12	11		22.06	21.97	21.58
5	25	0		22.18	21.94	21.62
10	1	0	QPSK	24.05	23.95	23.68
10	1	24		24.12	24.08	23.72
10	1	49		23.99	24.12	23.81
10	25	0		23.11	22.95	22.57
10	25	12		23.12	23.04	22.60
10	25	24		23.16	23.12	22.63
10	50	0		23.20	23.02	22.61
10	1	0	16-QAM	23.29	22.85	22.96
10	1	24		23.35	22.97	23.00
10	1	49		23.24	23.02	23.09
10	25	0		22.14	21.94	21.60
10	25	12		22.14	21.99	21.65
10	25	24		22.21	22.09	21.64
10	50	0		22.21	21.99	21.61



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	24.22	23.72	23.52
15	1	37		24.24	24.11	23.45
15	1	74		23.94	24.13	23.51
15	36	0		23.03	22.85	22.58
15	36	18		23.02	22.96	22.57
15	36	39		22.99	23.00	22.58
15	75	0		23.09	22.95	22.61
15	1	0	16-QAM	23.27	23.11	22.77
15	1	38		23.33	23.39	22.76
15	1	75		23.02	23.39	22.83
15	36	0		22.05	21.88	21.64
15	36	18		22.04	22.00	21.65
15	36	39		21.98	22.09	21.71
15	75	0		22.11	21.96	21.58
20	1	0	QPSK	24.35	24.07	24.20
20	1	49		24.38	24.62	24.10
20	1	99		23.56	24.66	24.08
20	50	0		23.51	23.33	23.30
20	50	24		23.53	23.57	23.13
20	50	49		23.25	23.59	23.14
20	100	0		23.34	23.45	23.22
20	1	0	16-QAM	23.87	23.48	23.42
20	1	49		23.87	24.03	23.29
20	1	99		22.97	24.02	23.33
20	50	0		22.52	22.35	22.25
20	50	24		22.50	22.57	22.11
20	50	49		22.28	22.63	22.09
20	100	0		22.38	22.44	22.20



SA

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Power (dBm)
n2	15	5	370500	25@0	DFT_BPSK	22.94
n2	15	5	370500	12@6	DFT_BPSK	22.9
n2	15	5	370500	1@1	DFT_BPSK	22.78
n2	15	5	370500	1@23	DFT_BPSK	22.76
n2	15	5	370500	25@0	DFT_QPSK	22.92
n2	15	5	370500	12@6	DFT_QPSK	22.87
n2	15	5	370500	1@1	DFT_QPSK	22.86
n2	15	5	370500	1@23	DFT_QPSK	22.88
n2	15	5	370500	25@0	DFT_16QAM	21.38
n2	15	5	370500	12@6	DFT_16QAM	22.37
n2	15	5	370500	1@1	DFT_16QAM	22.53
n2	15	5	370500	1@23	DFT_16QAM	22.54
n2	15	5	370500	25@0	DFT_64QAM	20.38
n2	15	5	370500	12@6	DFT_64QAM	20.43
n2	15	5	370500	1@1	DFT_64QAM	20.21
n2	15	5	370500	1@23	DFT_64QAM	20.21
n2	15	5	370500	25@0	DFT_256QAM	18.34
n2	15	5	370500	12@6	DFT_256QAM	18.36
n2	15	5	370500	1@1	DFT_256QAM	18.5
n2	15	5	370500	1@23	DFT_256QAM	18.46
n2	15	5	370500	25@0	CP_QPSK	19.82
n2	15	5	370500	13@6	CP_QPSK	22.29
n2	15	5	370500	1@1	CP_QPSK	22.54
n2	15	5	370500	1@23	CP_QPSK	22.51
n2	15	5	370500	25@0	CP_16QAM	19.87
n2	15	5	370500	13@6	CP_16QAM	20.88
n2	15	5	370500	1@1	CP_16QAM	21.09
n2	15	5	370500	1@23	CP_16QAM	21.06
n2	15	5	370500	25@0	CP_64QAM	19.36
n2	15	5	370500	13@6	CP_64QAM	19.42
n2	15	5	370500	1@1	CP_64QAM	19.31
n2	15	5	370500	1@23	CP_64QAM	19.32
n2	15	5	370500	25@0	CP_256QAM	16.46
n2	15	5	370500	13@6	CP_256QAM	16.46
n2	15	5	370500	1@1	CP_256QAM	16.65
n2	15	5	370500	1@23	CP_256QAM	16.72
n2	15	5	376000	25@0	DFT_BPSK	22.61
n2	15	5	376000	12@6	DFT_BPSK	23.1
n2	15	5	376000	1@1	DFT_BPSK	22.5
n2	15	5	376000	1@23	DFT_BPSK	23.05
n2	15	5	376000	25@0	DFT_QPSK	23.15
n2	15	5	376000	12@6	DFT_QPSK	22.6
n2	15	5	376000	1@1	DFT_QPSK	22.59
n2	15	5	376000	1@23	DFT_QPSK	22.62
n2	15	5	376000	25@0	DFT_16QAM	21.2
n2	15	5	376000	12@6	DFT_16QAM	22.62
n2	15	5	376000	1@1	DFT_16QAM	22.24
n2	15	5	376000	1@23	DFT_16QAM	22.37
n2	15	5	376000	25@0	DFT_64QAM	20.6
n2	15	5	376000	12@6	DFT_64QAM	20.14
n2	15	5	376000	1@1	DFT_64QAM	20.02
n2	15	5	376000	1@23	DFT_64QAM	20.62
n2	15	5	376000	25@0	DFT_256QAM	18.06
n2	15	5	376000	12@6	DFT_256QAM	18.4



n2	15	5	376000	1@1	DFT_256QAM	18.21
n2	15	5	376000	1@23	DFT_256QAM	18.36
n2	15	5	376000	25@0	CP_QPSK	19.56
n2	15	5	376000	13@6	CP_QPSK	22.02
n2	15	5	376000	1@1	CP_QPSK	21.87
n2	15	5	376000	1@23	CP_QPSK	22.45
n2	15	5	376000	25@0	CP_16QAM	19.64
n2	15	5	376000	13@6	CP_16QAM	21.1
n2	15	5	376000	1@1	CP_16QAM	20.66
n2	15	5	376000	1@23	CP_16QAM	20.76
n2	15	5	376000	25@0	CP_64QAM	19.61
n2	15	5	376000	13@6	CP_64QAM	19.17
n2	15	5	376000	1@1	CP_64QAM	19.42
n2	15	5	376000	1@23	CP_64QAM	19.55
n2	15	5	376000	25@0	CP_256QAM	16.29
n2	15	5	376000	13@6	CP_256QAM	16.25
n2	15	5	376000	1@1	CP_256QAM	16.41
n2	15	5	376000	1@23	CP_256QAM	16.9
n2	15	5	381500	25@0	DFT_BPSK	22.81
n2	15	5	381500	12@6	DFT_BPSK	22.84
n2	15	5	381500	1@1	DFT_BPSK	22.67
n2	15	5	381500	1@23	DFT_BPSK	23.23
n2	15	5	381500	25@0	DFT_QPSK	22.8
n2	15	5	381500	12@6	DFT_QPSK	23.3
n2	15	5	381500	1@1	DFT_QPSK	22.78
n2	15	5	381500	1@23	DFT_QPSK	23.24
n2	15	5	381500	25@0	DFT_16QAM	21.32
n2	15	5	381500	12@6	DFT_16QAM	22.78
n2	15	5	381500	1@1	DFT_16QAM	22.5
n2	15	5	381500	1@23	DFT_16QAM	23.02
n2	15	5	381500	25@0	DFT_64QAM	20.28
n2	15	5	381500	12@6	DFT_64QAM	20.38
n2	15	5	381500	1@1	DFT_64QAM	20.23
n2	15	5	381500	1@23	DFT_64QAM	20.74
n2	15	5	381500	25@0	DFT_256QAM	18.22
n2	15	5	381500	12@6	DFT_256QAM	18.5
n2	15	5	381500	1@1	DFT_256QAM	18.9
n2	15	5	381500	1@23	DFT_256QAM	18.46
n2	15	5	381500	25@0	CP_QPSK	20.23
n2	15	5	381500	13@6	CP_QPSK	22.67
n2	15	5	381500	1@1	CP_QPSK	22.6
n2	15	5	381500	1@23	CP_QPSK	22.07
n2	15	5	381500	25@0	CP_16QAM	20.28
n2	15	5	381500	13@6	CP_16QAM	20.83
n2	15	5	381500	1@1	CP_16QAM	21.39
n2	15	5	381500	1@23	CP_16QAM	20.87
n2	15	5	381500	25@0	CP_64QAM	19.27
n2	15	5	381500	13@6	CP_64QAM	19.35
n2	15	5	381500	1@1	CP_64QAM	19.14
n2	15	5	381500	1@23	CP_64QAM	19.69
n2	15	5	381500	25@0	CP_256QAM	16.3
n2	15	5	381500	13@6	CP_256QAM	16.87
n2	15	5	381500	1@1	CP_256QAM	16.61
n2	15	5	381500	1@23	CP_256QAM	16.44



n2	15	10	371000	50@0	DFT_BPSK	22.89
n2	15	10	371000	25@12	DFT_BPSK	22.95
n2	15	10	371000	1@1	DFT_BPSK	22.82
n2	15	10	371000	1@50	DFT_BPSK	22.76
n2	15	10	371000	50@0	DFT_QPSK	22.97
n2	15	10	371000	25@12	DFT_QPSK	22.98
n2	15	10	371000	1@1	DFT_QPSK	22.88
n2	15	10	371000	1@50	DFT_QPSK	22.8
n2	15	10	371000	50@0	DFT_16QAM	21.51
n2	15	10	371000	25@12	DFT_16QAM	22.46
n2	15	10	371000	1@1	DFT_16QAM	22.63
n2	15	10	371000	1@50	DFT_16QAM	22.58
n2	15	10	371000	50@0	DFT_64QAM	20.43
n2	15	10	371000	25@12	DFT_64QAM	20.39
n2	15	10	371000	1@1	DFT_64QAM	20.26
n2	15	10	371000	1@50	DFT_64QAM	20.23
n2	15	10	371000	50@0	DFT_256QAM	18.36
n2	15	10	371000	25@12	DFT_256QAM	18.37
n2	15	10	371000	1@1	DFT_256QAM	18.39
n2	15	10	371000	1@50	DFT_256QAM	18.49
n2	15	10	371000	52@0	CP_QPSK	19.89
n2	15	10	371000	26@13	CP_QPSK	22.47
n2	15	10	371000	1@1	CP_QPSK	22.62
n2	15	10	371000	1@50	CP_QPSK	22.53
n2	15	10	371000	52@0	CP_16QAM	19.89
n2	15	10	371000	26@13	CP_16QAM	20.83
n2	15	10	371000	1@1	CP_16QAM	21.13
n2	15	10	371000	1@50	CP_16QAM	20.93
n2	15	10	371000	52@0	CP_64QAM	19.38
n2	15	10	371000	26@13	CP_64QAM	19.43
n2	15	10	371000	1@1	CP_64QAM	19.29
n2	15	10	371000	1@50	CP_64QAM	19.26
n2	15	10	371000	52@0	CP_256QAM	16.29
n2	15	10	371000	26@13	CP_256QAM	16.48
n2	15	10	371000	1@1	CP_256QAM	16.59
n2	15	10	371000	1@50	CP_256QAM	16.68
n2	15	10	376000	50@0	DFT_BPSK	22.59
n2	15	10	376000	25@12	DFT_BPSK	22.61
n2	15	10	376000	1@1	DFT_BPSK	22.51
n2	15	10	376000	1@50	DFT_BPSK	23.17
n2	15	10	376000	50@0	DFT_QPSK	23.12
n2	15	10	376000	25@12	DFT_QPSK	22.66
n2	15	10	376000	1@1	DFT_QPSK	22.53
n2	15	10	376000	1@50	DFT_QPSK	22.67
n2	15	10	376000	50@0	DFT_16QAM	21.64
n2	15	10	376000	25@12	DFT_16QAM	22.66
n2	15	10	376000	1@1	DFT_16QAM	22.7
n2	15	10	376000	1@50	DFT_16QAM	22.94
n2	15	10	376000	50@0	DFT_64QAM	20.62
n2	15	10	376000	25@12	DFT_64QAM	20.05
n2	15	10	376000	1@1	DFT_64QAM	20.05
n2	15	10	376000	1@50	DFT_64QAM	20.69
n2	15	10	376000	50@0	DFT_256QAM	18.04
n2	15	10	376000	25@12	DFT_256QAM	18.08
n2	15	10	376000	1@1	DFT_256QAM	18.71
n2	15	10	376000	1@50	DFT_256QAM	18.88
n2	15	10	376000	52@0	CP_QPSK	20.1



n2	15	10	376000	26@13	CP_QPSK	22.73
n2	15	10	376000	1@1	CP_QPSK	22.39
n2	15	10	376000	1@50	CP_QPSK	22.11
n2	15	10	376000	52@0	CP_16QAM	19.65
n2	15	10	376000	26@13	CP_16QAM	20.57
n2	15	10	376000	1@1	CP_16QAM	21.15
n2	15	10	376000	1@50	CP_16QAM	20.81
n2	15	10	376000	52@0	CP_64QAM	19.51
n2	15	10	376000	26@13	CP_64QAM	19.66
n2	15	10	376000	1@1	CP_64QAM	19.4
n2	15	10	376000	1@50	CP_64QAM	19.08
n2	15	10	376000	52@0	CP_256QAM	16.09
n2	15	10	376000	26@13	CP_256QAM	16.22
n2	15	10	376000	1@1	CP_256QAM	16.36
n2	15	10	376000	1@50	CP_256QAM	16.96
n2	15	10	381000	50@0	DFT_BPSK	23.25
n2	15	10	381000	25@12	DFT_BPSK	23.34
n2	15	10	381000	1@1	DFT_BPSK	23.15
n2	15	10	381000	1@50	DFT_BPSK	22.73
n2	15	10	381000	50@0	DFT_QPSK	22.83
n2	15	10	381000	25@12	DFT_QPSK	23.38
n2	15	10	381000	1@1	DFT_QPSK	22.72
n2	15	10	381000	1@50	DFT_QPSK	22.76
n2	15	10	381000	50@0	DFT_16QAM	21.83
n2	15	10	381000	25@12	DFT_16QAM	22.38
n2	15	10	381000	1@1	DFT_16QAM	22.95
n2	15	10	381000	1@50	DFT_16QAM	23.02
n2	15	10	381000	50@0	DFT_64QAM	20.82
n2	15	10	381000	25@12	DFT_64QAM	20.8
n2	15	10	381000	1@1	DFT_64QAM	20.68
n2	15	10	381000	1@50	DFT_64QAM	20.75
n2	15	10	381000	50@0	DFT_256QAM	18.32
n2	15	10	381000	25@12	DFT_256QAM	18.23
n2	15	10	381000	1@1	DFT_256QAM	18.3
n2	15	10	381000	1@50	DFT_256QAM	18.96
n2	15	10	381000	52@0	CP_QPSK	20.22
n2	15	10	381000	26@13	CP_QPSK	22.92
n2	15	10	381000	1@1	CP_QPSK	22.98
n2	15	10	381000	1@50	CP_QPSK	22.99
n2	15	10	381000	52@0	CP_16QAM	20.23
n2	15	10	381000	26@13	CP_16QAM	21.15
n2	15	10	381000	1@1	CP_16QAM	21.41
n2	15	10	381000	1@50	CP_16QAM	21.42
n2	15	10	381000	52@0	CP_64QAM	19.22
n2	15	10	381000	26@13	CP_64QAM	19.33
n2	15	10	381000	1@1	CP_64QAM	19.14
n2	15	10	381000	1@50	CP_64QAM	19.67
n2	15	10	381000	52@0	CP_256QAM	16.16
n2	15	10	381000	26@13	CP_256QAM	16.4
n2	15	10	381000	1@1	CP_256QAM	16.32
n2	15	10	381000	1@50	CP_256QAM	17.11



n2	15	15	371500	75@0	DFT_BPSK	23.07
n2	15	15	371500	36@18	DFT_BPSK	23.07
n2	15	15	371500	1@1	DFT_BPSK	22.94
n2	15	15	371500	1@77	DFT_BPSK	22.96
n2	15	15	371500	75@0	DFT_QPSK	23.09
n2	15	15	371500	36@18	DFT_QPSK	23.09
n2	15	15	371500	1@1	DFT_QPSK	22.97
n2	15	15	371500	1@77	DFT_QPSK	22.91
n2	15	15	371500	75@0	DFT_16QAM	21.55
n2	15	15	371500	36@18	DFT_16QAM	22.56
n2	15	15	371500	1@1	DFT_16QAM	22.62
n2	15	15	371500	1@77	DFT_16QAM	22.56
n2	15	15	371500	75@0	DFT_64QAM	20.54
n2	15	15	371500	36@18	DFT_64QAM	20.5
n2	15	15	371500	1@1	DFT_64QAM	20.48
n2	15	15	371500	1@77	DFT_64QAM	20.47
n2	15	15	371500	75@0	DFT_256QAM	18.35
n2	15	15	371500	36@18	DFT_256QAM	18.45
n2	15	15	371500	1@1	DFT_256QAM	18.37
n2	15	15	371500	1@77	DFT_256QAM	18.55
n2	15	15	371500	79@0	CP_QPSK	20
n2	15	15	371500	39@19	CP_QPSK	22.53
n2	15	15	371500	1@1	CP_QPSK	22.69
n2	15	15	371500	1@77	CP_QPSK	22.59
n2	15	15	371500	79@0	CP_16QAM	20.04
n2	15	15	371500	39@19	CP_16QAM	21.01
n2	15	15	371500	1@1	CP_16QAM	21.25
n2	15	15	371500	1@77	CP_16QAM	21.19
n2	15	15	371500	79@0	CP_64QAM	19.53
n2	15	15	371500	39@19	CP_64QAM	19.48
n2	15	15	371500	1@1	CP_64QAM	19.42
n2	15	15	371500	1@77	CP_64QAM	19.4
n2	15	15	371500	79@0	CP_256QAM	16.37
n2	15	15	371500	39@19	CP_256QAM	16.54
n2	15	15	371500	1@1	CP_256QAM	16.35
n2	15	15	371500	1@77	CP_256QAM	16.75
n2	15	15	376000	75@0	DFT_BPSK	23.12
n2	15	15	376000	36@18	DFT_BPSK	23.11
n2	15	15	376000	1@1	DFT_BPSK	22.91
n2	15	15	376000	1@77	DFT_BPSK	23.22
n2	15	15	376000	75@0	DFT_QPSK	23.19
n2	15	15	376000	36@18	DFT_QPSK	23.14
n2	15	15	376000	1@1	DFT_QPSK	22.9
n2	15	15	376000	1@77	DFT_QPSK	23.15
n2	15	15	376000	75@0	DFT_16QAM	21.65
n2	15	15	376000	36@18	DFT_16QAM	22.71
n2	15	15	376000	1@1	DFT_16QAM	22.61
n2	15	15	376000	1@77	DFT_16QAM	22.87
n2	15	15	376000	75@0	DFT_64QAM	20.66
n2	15	15	376000	36@18	DFT_64QAM	20.65
n2	15	15	376000	1@1	DFT_64QAM	20.41
n2	15	15	376000	1@77	DFT_64QAM	20.78
n2	15	15	376000	75@0	DFT_256QAM	18.66
n2	15	15	376000	36@18	DFT_256QAM	18.56
n2	15	15	376000	1@1	DFT_256QAM	18.59
n2	15	15	376000	1@77	DFT_256QAM	18.49
n2	15	15	376000	79@0	CP_QPSK	22.39



n2	15	15	376000	39@19	CP_QPSK	22.68
n2	15	15	376000	1@1	CP_QPSK	22.28
n2	15	15	376000	1@77	CP_QPSK	22.57
n2	15	15	376000	79@0	CP_16QAM	20.16
n2	15	15	376000	39@19	CP_16QAM	21.15
n2	15	15	376000	1@1	CP_16QAM	21
n2	15	15	376000	1@77	CP_16QAM	21.27
n2	15	15	376000	79@0	CP_64QAM	19.62
n2	15	15	376000	39@19	CP_64QAM	19.57
n2	15	15	376000	1@1	CP_64QAM	19.27
n2	15	15	376000	1@77	CP_64QAM	19.65
n2	15	15	376000	79@0	CP_256QAM	16.86
n2	15	15	376000	39@19	CP_256QAM	16.65
n2	15	15	376000	1@1	CP_256QAM	16.53
n2	15	15	376000	1@77	CP_256QAM	17.08
n2	15	15	380500	75@0	DFT_BPSK	22.81
n2	15	15	380500	36@18	DFT_BPSK	23.37
n2	15	15	380500	1@1	DFT_BPSK	22.75
n2	15	15	380500	1@77	DFT_BPSK	22.73
n2	15	15	380500	75@0	DFT_QPSK	22.92
n2	15	15	380500	36@18	DFT_QPSK	23.39
n2	15	15	380500	1@1	DFT_QPSK	22.84
n2	15	15	380500	1@77	DFT_QPSK	22.86
n2	15	15	380500	75@0	DFT_16QAM	21.86
n2	15	15	380500	36@18	DFT_16QAM	22.42
n2	15	15	380500	1@1	DFT_16QAM	22.45
n2	15	15	380500	1@77	DFT_16QAM	22.49
n2	15	15	380500	75@0	DFT_64QAM	20.84
n2	15	15	380500	36@18	DFT_64QAM	20.4
n2	15	15	380500	1@1	DFT_64QAM	20.8
n2	15	15	380500	1@77	DFT_64QAM	20.79
n2	15	15	380500	75@0	DFT_256QAM	18.41
n2	15	15	380500	36@18	DFT_256QAM	18.76
n2	15	15	380500	1@1	DFT_256QAM	18.55
n2	15	15	380500	1@77	DFT_256QAM	18.98
n2	15	15	380500	79@0	CP_QPSK	19.79
n2	15	15	380500	39@19	CP_QPSK	22.94
n2	15	15	380500	1@1	CP_QPSK	22.97
n2	15	15	380500	1@77	CP_QPSK	22.56
n2	15	15	380500	79@0	CP_16QAM	19.84
n2	15	15	380500	39@19	CP_16QAM	20.84
n2	15	15	380500	1@1	CP_16QAM	21.39
n2	15	15	380500	1@77	CP_16QAM	20.9
n2	15	15	380500	79@0	CP_64QAM	19.31
n2	15	15	380500	39@19	CP_64QAM	19.28
n2	15	15	380500	1@1	CP_64QAM	19.73
n2	15	15	380500	1@77	CP_64QAM	19.68
n2	15	15	380500	79@0	CP_256QAM	16.35
n2	15	15	380500	39@19	CP_256QAM	16.86
n2	15	15	380500	1@1	CP_256QAM	16.4
n2	15	15	380500	1@77	CP_256QAM	16.65



n2	15	20	372000	100@0	DFT_BPSK	23.54
n2	15	20	372000	50@25	DFT_BPSK	23.57
n2	15	20	372000	1@1	DFT_BPSK	23.38
n2	15	20	372000	1@104	DFT_BPSK	23.36
n2	15	20	372000	100@0	DFT_QPSK	23.1
n2	15	20	372000	50@25	DFT_QPSK	23.11
n2	15	20	372000	1@1	DFT_QPSK	22.94
n2	15	20	372000	1@104	DFT_QPSK	23.36
n2	15	20	372000	100@0	DFT_16QAM	22.05
n2	15	20	372000	50@25	DFT_16QAM	23.13
n2	15	20	372000	1@1	DFT_16QAM	23.15
n2	15	20	372000	1@104	DFT_16QAM	23.09
n2	15	20	372000	100@0	DFT_64QAM	20.58
n2	15	20	372000	50@25	DFT_64QAM	20.57
n2	15	20	372000	1@1	DFT_64QAM	20.47
n2	15	20	372000	1@104	DFT_64QAM	20.41
n2	15	20	372000	100@0	DFT_256QAM	18.72
n2	15	20	372000	50@25	DFT_256QAM	18.51
n2	15	20	372000	1@1	DFT_256QAM	18.74
n2	15	20	372000	1@104	DFT_256QAM	18.6
n2	15	20	372000	106@0	CP_QPSK	20.55
n2	15	20	372000	53@26	CP_QPSK	22.63
n2	15	20	372000	1@1	CP_QPSK	22.64
n2	15	20	372000	1@104	CP_QPSK	23.04
n2	15	20	372000	106@0	CP_16QAM	20.55
n2	15	20	372000	53@26	CP_16QAM	21.55
n2	15	20	372000	1@1	CP_16QAM	21.51
n2	15	20	372000	1@104	CP_16QAM	21.47
n2	15	20	372000	106@0	CP_64QAM	19.53
n2	15	20	372000	53@26	CP_64QAM	19.51
n2	15	20	372000	1@1	CP_64QAM	19.79
n2	15	20	372000	1@104	CP_64QAM	19.77
n2	15	20	372000	106@0	CP_256QAM	16.72
n2	15	20	372000	53@26	CP_256QAM	17.15
n2	15	20	372000	1@1	CP_256QAM	17.16
n2	15	20	372000	1@104	CP_256QAM	16.71
n2	15	20	376000	100@0	DFT_BPSK	23.58
n2	15	20	376000	50@25	DFT_BPSK	23.64
n2	15	20	376000	1@1	DFT_BPSK	23.34
n2	15	20	376000	1@104	DFT_BPSK	23.67
n2	15	20	376000	100@0	DFT_QPSK	23.58
n2	15	20	376000	50@25	DFT_QPSK	23.68
n2	15	20	376000	1@1	DFT_QPSK	23.33
n2	15	20	376000	1@104	DFT_QPSK	23.62
n2	15	20	376000	100@0	DFT_16QAM	22.1
n2	15	20	376000	50@25	DFT_16QAM	23.31
n2	15	20	376000	1@1	DFT_16QAM	23.04
n2	15	20	376000	1@104	DFT_16QAM	23.45
n2	15	20	376000	100@0	DFT_64QAM	21.07
n2	15	20	376000	50@25	DFT_64QAM	21.18
n2	15	20	376000	1@1	DFT_64QAM	20.91
n2	15	20	376000	1@104	DFT_64QAM	21.21
n2	15	20	376000	100@0	DFT_256QAM	19.01
n2	15	20	376000	50@25	DFT_256QAM	19.07
n2	15	20	376000	1@1	DFT_256QAM	18.86
n2	15	20	376000	1@104	DFT_256QAM	19.39
n2	15	20	376000	106@0	CP_QPSK	20.54



n2	15	20	376000	53@26	CP_QPSK	23.18
n2	15	20	376000	1@1	CP_QPSK	23.02
n2	15	20	376000	1@104	CP_QPSK	23.38
n2	15	20	376000	106@0	CP_16QAM	20.55
n2	15	20	376000	53@26	CP_16QAM	21.7
n2	15	20	376000	1@1	CP_16QAM	21.48
n2	15	20	376000	1@104	CP_16QAM	21.76
n2	15	20	376000	106@0	CP_64QAM	20.01
n2	15	20	376000	53@26	CP_64QAM	20.14
n2	15	20	376000	1@1	CP_64QAM	19.74
n2	15	20	376000	1@104	CP_64QAM	20.14
n2	15	20	376000	106@0	CP_256QAM	16.79
n2	15	20	376000	53@26	CP_256QAM	17.24
n2	15	20	376000	1@1	CP_256QAM	17.15
n2	15	20	376000	1@104	CP_256QAM	17.53
n2	15	20	380000	100@0	DFT_BPSK	23.33
n2	15	20	380000	50@25	DFT_BPSK	23.39
n2	15	20	380000	1@1	DFT_BPSK	23.17
n2	15	20	380000	1@104	DFT_BPSK	23.74
n2	15	20	380000	100@0	DFT_QPSK	23.4
n2	15	20	380000	50@25	DFT_QPSK	23.95
n2	15	20	380000	1@1	DFT_QPSK	23.67
n2	15	20	380000	1@104	DFT_QPSK	23.2
n2	15	20	380000	100@0	DFT_16QAM	22.34
n2	15	20	380000	50@25	DFT_16QAM	23.45
n2	15	20	380000	1@1	DFT_16QAM	22.92
n2	15	20	380000	1@104	DFT_16QAM	22.96
n2	15	20	380000	100@0	DFT_64QAM	20.86
n2	15	20	380000	50@25	DFT_64QAM	20.87
n2	15	20	380000	1@1	DFT_64QAM	21.2
n2	15	20	380000	1@104	DFT_64QAM	20.78
n2	15	20	380000	100@0	DFT_256QAM	18.81
n2	15	20	380000	50@25	DFT_256QAM	19.29
n2	15	20	380000	1@1	DFT_256QAM	19.38
n2	15	20	380000	1@104	DFT_256QAM	19.43
n2	15	20	380000	106@0	CP_QPSK	20.27
n2	15	20	380000	53@26	CP_QPSK	22.98
n2	15	20	380000	1@1	CP_QPSK	22.89
n2	15	20	380000	1@104	CP_QPSK	23.42
n2	15	20	380000	106@0	CP_16QAM	20.28
n2	15	20	380000	53@26	CP_16QAM	21.47
n2	15	20	380000	1@1	CP_16QAM	21.95
n2	15	20	380000	1@104	CP_16QAM	21.53
n2	15	20	380000	106@0	CP_64QAM	19.75
n2	15	20	380000	53@26	CP_64QAM	20.35
n2	15	20	380000	1@1	CP_64QAM	20.13
n2	15	20	380000	1@104	CP_64QAM	20.14
n2	15	20	380000	106@0	CP_256QAM	16.9
n2	15	20	380000	53@26	CP_256QAM	17.03
n2	15	20	380000	1@1	CP_256QAM	16.89
n2	15	20	380000	1@104	CP_256QAM	17.1



Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Power (dBm)
n5	15	5	165300	25@0	DFT_BPSK	23.63
n5	15	5	165300	12@6	DFT_BPSK	23.17
n5	15	5	165300	1@1	DFT_BPSK	23.49
n5	15	5	165300	1@23	DFT_BPSK	22.94
n5	15	5	165300	25@0	DFT_QPSK	23.13
n5	15	5	165300	12@6	DFT_QPSK	23.62
n5	15	5	165300	1@1	DFT_QPSK	23.03
n5	15	5	165300	1@23	DFT_QPSK	23.47
n5	15	5	165300	25@0	DFT_16QAM	22.1
n5	15	5	165300	12@6	DFT_16QAM	23.05
n5	15	5	165300	1@1	DFT_16QAM	22.68
n5	15	5	165300	1@23	DFT_16QAM	23.07
n5	15	5	165300	25@0	DFT_64QAM	21.1
n5	15	5	165300	12@6	DFT_64QAM	21.11
n5	15	5	165300	1@1	DFT_64QAM	20.88
n5	15	5	165300	1@23	DFT_64QAM	20.83
n5	15	5	165300	25@0	DFT_256QAM	19.04
n5	15	5	165300	12@6	DFT_256QAM	19.05
n5	15	5	165300	1@1	DFT_256QAM	18.68
n5	15	5	165300	1@23	DFT_256QAM	19.08
n5	15	5	165300	25@0	CP_QPSK	20.1
n5	15	5	165300	13@6	CP_QPSK	23.05
n5	15	5	165300	1@1	CP_QPSK	22.62
n5	15	5	165300	1@23	CP_QPSK	22.58
n5	15	5	165300	25@0	CP_16QAM	20.13
n5	15	5	165300	13@6	CP_16QAM	21.55
n5	15	5	165300	1@1	CP_16QAM	21.26
n5	15	5	165300	1@23	CP_16QAM	21.69
n5	15	5	165300	25@0	CP_64QAM	20.03
n5	15	5	165300	13@6	CP_64QAM	20.18
n5	15	5	165300	1@1	CP_64QAM	19.99
n5	15	5	165300	1@23	CP_64QAM	19.45
n5	15	5	165300	25@0	CP_256QAM	17.14
n5	15	5	165300	13@6	CP_256QAM	16.75
n5	15	5	165300	1@1	CP_256QAM	16.94
n5	15	5	165300	1@23	CP_256QAM	17.3
n5	15	5	167300	25@0	DFT_BPSK	23.47
n5	15	5	167300	12@6	DFT_BPSK	23.49
n5	15	5	167300	1@1	DFT_BPSK	23.36
n5	15	5	167300	1@23	DFT_BPSK	23.37
n5	15	5	167300	25@0	DFT_QPSK	23.46
n5	15	5	167300	12@6	DFT_QPSK	23.52
n5	15	5	167300	1@1	DFT_QPSK	23.42
n5	15	5	167300	1@23	DFT_QPSK	23.39
n5	15	5	167300	25@0	DFT_16QAM	21.97
n5	15	5	167300	12@6	DFT_16QAM	22.95
n5	15	5	167300	1@1	DFT_16QAM	23.08
n5	15	5	167300	1@23	DFT_16QAM	23.07
n5	15	5	167300	25@0	DFT_64QAM	20.98
n5	15	5	167300	12@6	DFT_64QAM	21.03
n5	15	5	167300	1@1	DFT_64QAM	20.75
n5	15	5	167300	1@23	DFT_64QAM	20.77
n5	15	5	167300	25@0	DFT_256QAM	18.93
n5	15	5	167300	12@6	DFT_256QAM	18.98
n5	15	5	167300	1@1	DFT_256QAM	19.13



n5	15	5	167300	1@23	DFT_256QAM	19.09
n5	15	5	167300	25@0	CP_QPSK	20.41
n5	15	5	167300	13@6	CP_QPSK	22.95
n5	15	5	167300	1@1	CP_QPSK	23.11
n5	15	5	167300	1@23	CP_QPSK	23.05
n5	15	5	167300	25@0	CP_16QAM	20.44
n5	15	5	167300	13@6	CP_16QAM	21.46
n5	15	5	167300	1@1	CP_16QAM	21.67
n5	15	5	167300	1@23	CP_16QAM	21.64
n5	15	5	167300	25@0	CP_64QAM	19.97
n5	15	5	167300	13@6	CP_64QAM	20.06
n5	15	5	167300	1@1	CP_64QAM	19.86
n5	15	5	167300	1@23	CP_64QAM	19.89
n5	15	5	167300	25@0	CP_256QAM	17.04
n5	15	5	167300	13@6	CP_256QAM	17.05
n5	15	5	167300	1@1	CP_256QAM	17.3
n5	15	5	167300	1@23	CP_256QAM	17.29
n5	15	5	169300	25@0	DFT_BPSK	23.13
n5	15	5	169300	12@6	DFT_BPSK	23.6
n5	15	5	169300	1@1	DFT_BPSK	23.01
n5	15	5	169300	1@23	DFT_BPSK	23.53
n5	15	5	169300	25@0	DFT_QPSK	23.12
n5	15	5	169300	12@6	DFT_QPSK	23.17
n5	15	5	169300	1@1	DFT_QPSK	23.04
n5	15	5	169300	1@23	DFT_QPSK	23.04
n5	15	5	169300	25@0	DFT_16QAM	21.62
n5	15	5	169300	12@6	DFT_16QAM	22.59
n5	15	5	169300	1@1	DFT_16QAM	22.73
n5	15	5	169300	1@23	DFT_16QAM	23.25
n5	15	5	169300	25@0	DFT_64QAM	21.04
n5	15	5	169300	12@6	DFT_64QAM	21.11
n5	15	5	169300	1@1	DFT_64QAM	20.99
n5	15	5	169300	1@23	DFT_64QAM	20.58
n5	15	5	169300	25@0	DFT_256QAM	19.01
n5	15	5	169300	12@6	DFT_256QAM	19.05
n5	15	5	169300	1@1	DFT_256QAM	19.36
n5	15	5	169300	1@23	DFT_256QAM	19.17
n5	15	5	169300	25@0	CP_QPSK	20.52
n5	15	5	169300	13@6	CP_QPSK	22.57
n5	15	5	169300	1@1	CP_QPSK	22.74
n5	15	5	169300	1@23	CP_QPSK	23.25
n5	15	5	169300	25@0	CP_16QAM	20.55
n5	15	5	169300	13@6	CP_16QAM	21.1
n5	15	5	169300	1@1	CP_16QAM	21.25
n5	15	5	169300	1@23	CP_16QAM	21.31
n5	15	5	169300	25@0	CP_64QAM	20
n5	15	5	169300	13@6	CP_64QAM	19.71
n5	15	5	169300	1@1	CP_64QAM	19.99
n5	15	5	169300	1@23	CP_64QAM	20.01
n5	15	5	169300	25@0	CP_256QAM	16.48
n5	15	5	169300	13@6	CP_256QAM	16.53
n5	15	5	169300	1@1	CP_256QAM	17.17
n5	15	5	169300	1@23	CP_256QAM	16.78



n5	15	10	165800	50@0	DFT_BPSK	23.11
n5	15	10	165800	25@12	DFT_BPSK	23.53
n5	15	10	165800	1@1	DFT_BPSK	23.52
n5	15	10	165800	1@50	DFT_BPSK	22.94
n5	15	10	165800	50@0	DFT_QPSK	23.6
n5	15	10	165800	25@12	DFT_QPSK	23.55
n5	15	10	165800	1@1	DFT_QPSK	23.43
n5	15	10	165800	1@50	DFT_QPSK	23.37
n5	15	10	165800	50@0	DFT_16QAM	21.69
n5	15	10	165800	25@12	DFT_16QAM	23.04
n5	15	10	165800	1@1	DFT_16QAM	22.62
n5	15	10	165800	1@50	DFT_16QAM	23.02
n5	15	10	165800	50@0	DFT_64QAM	21.12
n5	15	10	165800	25@12	DFT_64QAM	20.61
n5	15	10	165800	1@1	DFT_64QAM	20.83
n5	15	10	165800	1@50	DFT_64QAM	20.74
n5	15	10	165800	50@0	DFT_256QAM	19.05
n5	15	10	165800	25@12	DFT_256QAM	19.03
n5	15	10	165800	1@1	DFT_256QAM	19.14
n5	15	10	165800	1@50	DFT_256QAM	19.07
n5	15	10	165800	52@0	CP_QPSK	20.63
n5	15	10	165800	26@13	CP_QPSK	22.63
n5	15	10	165800	1@1	CP_QPSK	22.58
n5	15	10	165800	1@50	CP_QPSK	22.62
n5	15	10	165800	52@0	CP_16QAM	20.15
n5	15	10	165800	26@13	CP_16QAM	20.98
n5	15	10	165800	1@1	CP_16QAM	21.26
n5	15	10	165800	1@50	CP_16QAM	21.61
n5	15	10	165800	52@0	CP_64QAM	19.66
n5	15	10	165800	26@13	CP_64QAM	19.59
n5	15	10	165800	1@1	CP_64QAM	19.52
n5	15	10	165800	1@50	CP_64QAM	19.84
n5	15	10	165800	52@0	CP_256QAM	17.21
n5	15	10	165800	26@13	CP_256QAM	17.1
n5	15	10	165800	1@1	CP_256QAM	17.34
n5	15	10	165800	1@50	CP_256QAM	17.24
n5	15	10	167300	50@0	DFT_BPSK	23.43
n5	15	10	167300	25@12	DFT_BPSK	23.5
n5	15	10	167300	1@1	DFT_BPSK	23.38
n5	15	10	167300	1@50	DFT_BPSK	23.39
n5	15	10	167300	50@0	DFT_QPSK	23.47
n5	15	10	167300	25@12	DFT_QPSK	23.49
n5	15	10	167300	1@1	DFT_QPSK	23.48
n5	15	10	167300	1@50	DFT_QPSK	23.43
n5	15	10	167300	50@0	DFT_16QAM	21.99
n5	15	10	167300	25@12	DFT_16QAM	22.96
n5	15	10	167300	1@1	DFT_16QAM	23.07
n5	15	10	167300	1@50	DFT_16QAM	23.09
n5	15	10	167300	50@0	DFT_64QAM	20.96
n5	15	10	167300	25@12	DFT_64QAM	20.9
n5	15	10	167300	1@1	DFT_64QAM	20.8
n5	15	10	167300	1@50	DFT_64QAM	20.87
n5	15	10	167300	50@0	DFT_256QAM	18.87
n5	15	10	167300	25@12	DFT_256QAM	18.87
n5	15	10	167300	1@1	DFT_256QAM	19.09
n5	15	10	167300	1@50	DFT_256QAM	19.15
n5	15	10	167300	52@0	CP_QPSK	20.44



n5	15	10	167300	26@13	CP_QPSK	22.99
n5	15	10	167300	1@1	CP_QPSK	23.1
n5	15	10	167300	1@50	CP_QPSK	23.18
n5	15	10	167300	52@0	CP_16QAM	20.4
n5	15	10	167300	26@13	CP_16QAM	21.38
n5	15	10	167300	1@1	CP_16QAM	21.7
n5	15	10	167300	1@50	CP_16QAM	21.73
n5	15	10	167300	52@0	CP_64QAM	19.92
n5	15	10	167300	26@13	CP_64QAM	20.03
n5	15	10	167300	1@1	CP_64QAM	19.85
n5	15	10	167300	1@50	CP_64QAM	19.98
n5	15	10	167300	52@0	CP_256QAM	17.01
n5	15	10	167300	26@13	CP_256QAM	17.06
n5	15	10	167300	1@1	CP_256QAM	17.33
n5	15	10	167300	1@50	CP_256QAM	17.35
n5	15	10	168800	50@0	DFT_BPSK	23.5
n5	15	10	168800	25@12	DFT_BPSK	23.61
n5	15	10	168800	1@1	DFT_BPSK	23.37
n5	15	10	168800	1@50	DFT_BPSK	23.08
n5	15	10	168800	50@0	DFT_QPSK	23.07
n5	15	10	168800	25@12	DFT_QPSK	23.62
n5	15	10	168800	1@1	DFT_QPSK	23.43
n5	15	10	168800	1@50	DFT_QPSK	23.55
n5	15	10	168800	50@0	DFT_16QAM	21.62
n5	15	10	168800	25@12	DFT_16QAM	22.66
n5	15	10	168800	1@1	DFT_16QAM	22.66
n5	15	10	168800	1@50	DFT_16QAM	22.79
n5	15	10	168800	50@0	DFT_64QAM	21.07
n5	15	10	168800	25@12	DFT_64QAM	21.08
n5	15	10	168800	1@1	DFT_64QAM	20.78
n5	15	10	168800	1@50	DFT_64QAM	20.47
n5	15	10	168800	50@0	DFT_256QAM	18.91
n5	15	10	168800	25@12	DFT_256QAM	19.04
n5	15	10	168800	1@1	DFT_256QAM	19.15
n5	15	10	168800	1@50	DFT_256QAM	19.2
n5	15	10	168800	52@0	CP_QPSK	20.07
n5	15	10	168800	26@13	CP_QPSK	23.14
n5	15	10	168800	1@1	CP_QPSK	22.63
n5	15	10	168800	1@50	CP_QPSK	23.22
n5	15	10	168800	52@0	CP_16QAM	20.44
n5	15	10	168800	26@13	CP_16QAM	21.05
n5	15	10	168800	1@1	CP_16QAM	21.67
n5	15	10	168800	1@50	CP_16QAM	21.39
n5	15	10	168800	52@0	CP_64QAM	19.53
n5	15	10	168800	26@13	CP_64QAM	20.06
n5	15	10	168800	1@1	CP_64QAM	19.93
n5	15	10	168800	1@50	CP_64QAM	19.55
n5	15	10	168800	52@0	CP_256QAM	16.46
n5	15	10	168800	26@13	CP_256QAM	16.95
n5	15	10	168800	1@1	CP_256QAM	16.81
n5	15	10	168800	1@50	CP_256QAM	16.76



n5	15	15	166300	75@0	DFT_BPSK	23.57
n5	15	15	166300	36@18	DFT_BPSK	23.57
n5	15	15	166300	1@1	DFT_BPSK	23.52
n5	15	15	166300	1@77	DFT_BPSK	23.43
n5	15	15	166300	75@0	DFT_QPSK	23.57
n5	15	15	166300	36@18	DFT_QPSK	23.59
n5	15	15	166300	1@1	DFT_QPSK	23.49
n5	15	15	166300	1@77	DFT_QPSK	23.38
n5	15	15	166300	75@0	DFT_16QAM	22.13
n5	15	15	166300	36@18	DFT_16QAM	23
n5	15	15	166300	1@1	DFT_16QAM	23.09
n5	15	15	166300	1@77	DFT_16QAM	23.1
n5	15	15	166300	75@0	DFT_64QAM	21.08
n5	15	15	166300	36@18	DFT_64QAM	21.05
n5	15	15	166300	1@1	DFT_64QAM	20.9
n5	15	15	166300	1@77	DFT_64QAM	20.8
n5	15	15	166300	75@0	DFT_256QAM	19.02
n5	15	15	166300	36@18	DFT_256QAM	18.95
n5	15	15	166300	1@1	DFT_256QAM	19.19
n5	15	15	166300	1@77	DFT_256QAM	19.08
n5	15	15	166300	79@0	CP_QPSK	20.56
n5	15	15	166300	39@19	CP_QPSK	23
n5	15	15	166300	1@1	CP_QPSK	23.05
n5	15	15	166300	1@77	CP_QPSK	22.99
n5	15	15	166300	79@0	CP_16QAM	20.55
n5	15	15	166300	39@19	CP_16QAM	21.44
n5	15	15	166300	1@1	CP_16QAM	21.69
n5	15	15	166300	1@77	CP_16QAM	21.67
n5	15	15	166300	79@0	CP_64QAM	20.14
n5	15	15	166300	39@19	CP_64QAM	19.99
n5	15	15	166300	1@1	CP_64QAM	19.99
n5	15	15	166300	1@77	CP_64QAM	19.85
n5	15	15	166300	79@0	CP_256QAM	17.8
n5	15	15	166300	39@19	CP_256QAM	17.02
n5	15	15	166300	1@1	CP_256QAM	17.23
n5	15	15	166300	1@77	CP_256QAM	17.34
n5	15	15	167300	75@0	DFT_BPSK	23.42
n5	15	15	167300	36@18	DFT_BPSK	23.49
n5	15	15	167300	1@1	DFT_BPSK	23.41
n5	15	15	167300	1@77	DFT_BPSK	23.54
n5	15	15	167300	75@0	DFT_QPSK	23.5
n5	15	15	167300	36@18	DFT_QPSK	23.47
n5	15	15	167300	1@1	DFT_QPSK	23.35
n5	15	15	167300	1@77	DFT_QPSK	23.49
n5	15	15	167300	75@0	DFT_16QAM	21.99
n5	15	15	167300	36@18	DFT_16QAM	23.01
n5	15	15	167300	1@1	DFT_16QAM	23.06
n5	15	15	167300	1@77	DFT_16QAM	23.14
n5	15	15	167300	75@0	DFT_64QAM	20.95
n5	15	15	167300	36@18	DFT_64QAM	21.02
n5	15	15	167300	1@1	DFT_64QAM	20.95
n5	15	15	167300	1@77	DFT_64QAM	21.02
n5	15	15	167300	75@0	DFT_256QAM	18.39
n5	15	15	167300	36@18	DFT_256QAM	18.93
n5	15	15	167300	1@1	DFT_256QAM	19.09
n5	15	15	167300	1@77	DFT_256QAM	19.16
n5	15	15	167300	79@0	CP_QPSK	20.49



n5	15	15	167300	39@19	CP_QPSK	23.05
n5	15	15	167300	1@1	CP_QPSK	23.05
n5	15	15	167300	1@77	CP_QPSK	23.08
n5	15	15	167300	79@0	CP_16QAM	20.49
n5	15	15	167300	39@19	CP_16QAM	21.46
n5	15	15	167300	1@1	CP_16QAM	21.53
n5	15	15	167300	1@77	CP_16QAM	21.59
n5	15	15	167300	79@0	CP_64QAM	19.97
n5	15	15	167300	39@19	CP_64QAM	19.97
n5	15	15	167300	1@1	CP_64QAM	19.76
n5	15	15	167300	1@77	CP_64QAM	19.91
n5	15	15	167300	79@0	CP_256QAM	17.26
n5	15	15	167300	39@19	CP_256QAM	17
n5	15	15	167300	1@1	CP_256QAM	17.33
n5	15	15	167300	1@77	CP_256QAM	17.13
n5	15	15	168300	75@0	DFT_BPSK	23.06
n5	15	15	168300	36@18	DFT_BPSK	23.15
n5	15	15	168300	1@1	DFT_BPSK	23.35
n5	15	15	168300	1@77	DFT_BPSK	23.11
n5	15	15	168300	75@0	DFT_QPSK	23.15
n5	15	15	168300	36@18	DFT_QPSK	23.14
n5	15	15	168300	1@1	DFT_QPSK	23.43
n5	15	15	168300	1@77	DFT_QPSK	23.48
n5	15	15	168300	75@0	DFT_16QAM	21.62
n5	15	15	168300	36@18	DFT_16QAM	23.11
n5	15	15	168300	1@1	DFT_16QAM	23.11
n5	15	15	168300	1@77	DFT_16QAM	23.21
n5	15	15	168300	75@0	DFT_64QAM	21.06
n5	15	15	168300	36@18	DFT_64QAM	20.66
n5	15	15	168300	1@1	DFT_64QAM	20.49
n5	15	15	168300	1@77	DFT_64QAM	21
n5	15	15	168300	75@0	DFT_256QAM	18.74
n5	15	15	168300	36@18	DFT_256QAM	18.6
n5	15	15	168300	1@1	DFT_256QAM	19.13
n5	15	15	168300	1@77	DFT_256QAM	18.53
n5	15	15	168300	79@0	CP_QPSK	20.5
n5	15	15	168300	39@19	CP_QPSK	22.64
n5	15	15	168300	1@1	CP_QPSK	22.83
n5	15	15	168300	1@77	CP_QPSK	22.93
n5	15	15	168300	79@0	CP_16QAM	20.51
n5	15	15	168300	39@19	CP_16QAM	21.53
n5	15	15	168300	1@1	CP_16QAM	21.09
n5	15	15	168300	1@77	CP_16QAM	21.2
n5	15	15	168300	79@0	CP_64QAM	20.06
n5	15	15	168300	39@19	CP_64QAM	19.56
n5	15	15	168300	1@1	CP_64QAM	19.36
n5	15	15	168300	1@77	CP_64QAM	19.93
n5	15	15	168300	79@0	CP_256QAM	17.26
n5	15	15	168300	39@19	CP_256QAM	17.04
n5	15	15	168300	1@1	CP_256QAM	17.73
n5	15	15	168300	1@77	CP_256QAM	16.76



n5	15	20	166800	100@0	DFT_BPSK	23.95
n5	15	20	166800	50@25	DFT_BPSK	23.98
n5	15	20	166800	1@1	DFT_BPSK	23.93
n5	15	20	166800	1@104	DFT_BPSK	23.95
n5	15	20	166800	100@0	DFT_QPSK	24.01
n5	15	20	166800	50@25	DFT_QPSK	24.02
n5	15	20	166800	1@1	DFT_QPSK	23.93
n5	15	20	166800	1@104	DFT_QPSK	23.94
n5	15	20	166800	100@0	DFT_16QAM	22.52
n5	15	20	166800	50@25	DFT_16QAM	23.55
n5	15	20	166800	1@1	DFT_16QAM	23.51
n5	15	20	166800	1@104	DFT_16QAM	23.62
n5	15	20	166800	100@0	DFT_64QAM	21.49
n5	15	20	166800	50@25	DFT_64QAM	21.51
n5	15	20	166800	1@1	DFT_64QAM	21.49
n5	15	20	166800	1@104	DFT_64QAM	21.45
n5	15	20	166800	100@0	DFT_256QAM	19.43
n5	15	20	166800	50@25	DFT_256QAM	20.18
n5	15	20	166800	1@1	DFT_256QAM	19.6
n5	15	20	166800	1@104	DFT_256QAM	19.66
n5	15	20	166800	106@0	CP_QPSK	21.02
n5	15	20	166800	53@26	CP_QPSK	23.55
n5	15	20	166800	1@1	CP_QPSK	23.47
n5	15	20	166800	1@104	CP_QPSK	23.57
n5	15	20	166800	106@0	CP_16QAM	21.04
n5	15	20	166800	53@26	CP_16QAM	21.98
n5	15	20	166800	1@1	CP_16QAM	22.02
n5	15	20	166800	1@104	CP_16QAM	22.08
n5	15	20	166800	106@0	CP_64QAM	20.45
n5	15	20	166800	53@26	CP_64QAM	20.44
n5	15	20	166800	1@1	CP_64QAM	20.34
n5	15	20	166800	1@104	CP_64QAM	20.32
n5	15	20	166800	106@0	CP_256QAM	18.19
n5	15	20	166800	53@26	CP_256QAM	17.6
n5	15	20	166800	1@1	CP_256QAM	17.75
n5	15	20	166800	1@104	CP_256QAM	17.57
n5	15	20	167300	100@0	DFT_BPSK	23.88
n5	15	20	167300	50@25	DFT_BPSK	23.99
n5	15	20	167300	1@1	DFT_BPSK	23.95
n5	15	20	167300	1@104	DFT_BPSK	23.99
n5	15	20	167300	100@0	DFT_QPSK	23.92
n5	15	20	167300	50@25	DFT_QPSK	24.03
n5	15	20	167300	1@1	DFT_QPSK	23.96
n5	15	20	167300	1@104	DFT_QPSK	24.04
n5	15	20	167300	100@0	DFT_16QAM	22.44
n5	15	20	167300	50@25	DFT_16QAM	23.57
n5	15	20	167300	1@1	DFT_16QAM	23.55
n5	15	20	167300	1@104	DFT_16QAM	23.6
n5	15	20	167300	100@0	DFT_64QAM	21.45
n5	15	20	167300	50@25	DFT_64QAM	21.5
n5	15	20	167300	1@1	DFT_64QAM	21.49
n5	15	20	167300	1@104	DFT_64QAM	21.51
n5	15	20	167300	100@0	DFT_256QAM	18.73
n5	15	20	167300	50@25	DFT_256QAM	19.45
n5	15	20	167300	1@1	DFT_256QAM	19.67
n5	15	20	167300	1@104	DFT_256QAM	19.67
n5	15	20	167300	106@0	CP_QPSK	20.92



n5	15	20	167300	53@26	CP_QPSK	23.53
n5	15	20	167300	1@1	CP_QPSK	23.51
n5	15	20	167300	1@104	CP_QPSK	23.6
n5	15	20	167300	106@0	CP_16QAM	20.95
n5	15	20	167300	53@26	CP_16QAM	21.98
n5	15	20	167300	1@1	CP_16QAM	22.07
n5	15	20	167300	1@104	CP_16QAM	22.15
n5	15	20	167300	106@0	CP_64QAM	20.4
n5	15	20	167300	53@26	CP_64QAM	20.5
n5	15	20	167300	1@1	CP_64QAM	20.34
n5	15	20	167300	1@104	CP_64QAM	20.4
n5	15	20	167300	106@0	CP_256QAM	17.53
n5	15	20	167300	53@26	CP_256QAM	18.03
n5	15	20	167300	1@1	CP_256QAM	17.81
n5	15	20	167300	1@104	CP_256QAM	17.76
n5	15	20	167800	100@0	DFT_BPSK	23.88
n5	15	20	167800	50@25	DFT_BPSK	24.03
n5	15	20	167800	1@1	DFT_BPSK	23.37
n5	15	20	167800	1@104	DFT_BPSK	23.96
n5	15	20	167800	100@0	DFT_QPSK	23.94
n5	15	20	167800	50@25	DFT_QPSK	24.08
n5	15	20	167800	1@1	DFT_QPSK	23.36
n5	15	20	167800	1@104	DFT_QPSK	23.99
n5	15	20	167800	100@0	DFT_16QAM	21.95
n5	15	20	167800	50@25	DFT_16QAM	23.58
n5	15	20	167800	1@1	DFT_16QAM	23.52
n5	15	20	167800	1@104	DFT_16QAM	23.58
n5	15	20	167800	100@0	DFT_64QAM	20.98
n5	15	20	167800	50@25	DFT_64QAM	21.1
n5	15	20	167800	1@1	DFT_64QAM	21.31
n5	15	20	167800	1@104	DFT_64QAM	21.05
n5	15	20	167800	100@0	DFT_256QAM	19.25
n5	15	20	167800	50@25	DFT_256QAM	19.48
n5	15	20	167800	1@1	DFT_256QAM	19.23
n5	15	20	167800	1@104	DFT_256QAM	19.22
n5	15	20	167800	106@0	CP_QPSK	20.9
n5	15	20	167800	53@26	CP_QPSK	23.14
n5	15	20	167800	1@1	CP_QPSK	23.04
n5	15	20	167800	1@104	CP_QPSK	23.69
n5	15	20	167800	106@0	CP_16QAM	20.43
n5	15	20	167800	53@26	CP_16QAM	21.57
n5	15	20	167800	1@1	CP_16QAM	22
n5	15	20	167800	1@104	CP_16QAM	22.14
n5	15	20	167800	106@0	CP_64QAM	20.37
n5	15	20	167800	53@26	CP_64QAM	20.05
n5	15	20	167800	1@1	CP_64QAM	20.24
n5	15	20	167800	1@104	CP_64QAM	19.93
n5	15	20	167800	106@0	CP_256QAM	18.06
n5	15	20	167800	53@26	CP_256QAM	17.58
n5	15	20	167800	1@1	CP_256QAM	18.05
n5	15	20	167800	1@104	CP_256QAM	17.19



n7	15	10	501000	50@0	DFT_BPSK	23.37
n7	15	10	501000	25@12	DFT_BPSK	23.47
n7	15	10	501000	1@1	DFT_BPSK	23.4
n7	15	10	501000	1@50	DFT_BPSK	23.39
n7	15	10	501000	50@0	DFT_QPSK	23.41
n7	15	10	501000	25@12	DFT_QPSK	23.51
n7	15	10	501000	1@1	DFT_QPSK	23.4
n7	15	10	501000	1@50	DFT_QPSK	23.37
n7	15	10	501000	50@0	DFT_16QAM	22.01
n7	15	10	501000	25@12	DFT_16QAM	22.94
n7	15	10	501000	1@1	DFT_16QAM	23.13
n7	15	10	501000	1@50	DFT_16QAM	23.13
n7	15	10	501000	50@0	DFT_64QAM	20.96
n7	15	10	501000	25@12	DFT_64QAM	20.93
n7	15	10	501000	1@1	DFT_64QAM	20.84
n7	15	10	501000	1@50	DFT_64QAM	20.86
n7	15	10	501000	50@0	DFT_256QAM	18.44
n7	15	10	501000	25@12	DFT_256QAM	18.9
n7	15	10	501000	1@1	DFT_256QAM	19.08
n7	15	10	501000	1@50	DFT_256QAM	19
n7	15	10	501000	52@0	CP_QPSK	20.41
n7	15	10	501000	26@13	CP_QPSK	22.98
n7	15	10	501000	1@1	CP_QPSK	23.12
n7	15	10	501000	1@50	CP_QPSK	23.08
n7	15	10	501000	52@0	CP_16QAM	20.41
n7	15	10	501000	26@13	CP_16QAM	21.35
n7	15	10	501000	1@1	CP_16QAM	21.64
n7	15	10	501000	1@50	CP_16QAM	21.6
n7	15	10	501000	52@0	CP_64QAM	19.86
n7	15	10	501000	26@13	CP_64QAM	19.99
n7	15	10	501000	1@1	CP_64QAM	19.81
n7	15	10	501000	1@50	CP_64QAM	19.86
n7	15	10	501000	52@0	CP_256QAM	16.43
n7	15	10	501000	26@13	CP_256QAM	16.79
n7	15	10	501000	1@1	CP_256QAM	16.45
n7	15	10	501000	1@50	CP_256QAM	17.2
n7	15	10	507000	50@0	DFT_BPSK	23.39
n7	15	10	507000	25@12	DFT_BPSK	23.44
n7	15	10	507000	1@1	DFT_BPSK	23.36
n7	15	10	507000	1@50	DFT_BPSK	23.34
n7	15	10	507000	50@0	DFT_QPSK	23.46
n7	15	10	507000	25@12	DFT_QPSK	23.51
n7	15	10	507000	1@1	DFT_QPSK	23.4
n7	15	10	507000	1@50	DFT_QPSK	23.34
n7	15	10	507000	50@0	DFT_16QAM	21.92
n7	15	10	507000	25@12	DFT_16QAM	22.96
n7	15	10	507000	1@1	DFT_16QAM	23.06
n7	15	10	507000	1@50	DFT_16QAM	23.01
n7	15	10	507000	50@0	DFT_64QAM	20.92
n7	15	10	507000	25@12	DFT_64QAM	20.94
n7	15	10	507000	1@1	DFT_64QAM	20.97
n7	15	10	507000	1@50	DFT_64QAM	20.94
n7	15	10	507000	50@0	DFT_256QAM	18.88
n7	15	10	507000	25@12	DFT_256QAM	19.4
n7	15	10	507000	1@1	DFT_256QAM	19.09
n7	15	10	507000	1@50	DFT_256QAM	19.04
n7	15	10	507000	52@0	CP_QPSK	20.45



n7	15	10	507000	26@13	CP_QPSK	22.99
n7	15	10	507000	1@1	CP_QPSK	23.13
n7	15	10	507000	1@50	CP_QPSK	23.09
n7	15	10	507000	52@0	CP_16QAM	20.44
n7	15	10	507000	26@13	CP_16QAM	21.38
n7	15	10	507000	1@1	CP_16QAM	21.53
n7	15	10	507000	1@50	CP_16QAM	21.53
n7	15	10	507000	52@0	CP_64QAM	19.94
n7	15	10	507000	26@13	CP_64QAM	19.96
n7	15	10	507000	1@1	CP_64QAM	19.86
n7	15	10	507000	1@50	CP_64QAM	19.89
n7	15	10	507000	52@0	CP_256QAM	16.46
n7	15	10	507000	26@13	CP_256QAM	16.84
n7	15	10	507000	1@1	CP_256QAM	16.38
n7	15	10	507000	1@50	CP_256QAM	17.16
n7	15	10	513000	50@0	DFT_BPSK	23.5
n7	15	10	513000	25@12	DFT_BPSK	23.5
n7	15	10	513000	1@1	DFT_BPSK	23.4
n7	15	10	513000	1@50	DFT_BPSK	23.44
n7	15	10	513000	50@0	DFT_QPSK	23.49
n7	15	10	513000	25@12	DFT_QPSK	23.54
n7	15	10	513000	1@1	DFT_QPSK	23.43
n7	15	10	513000	1@50	DFT_QPSK	23.44
n7	15	10	513000	50@0	DFT_16QAM	22.04
n7	15	10	513000	25@12	DFT_16QAM	23.05
n7	15	10	513000	1@1	DFT_16QAM	23.11
n7	15	10	513000	1@50	DFT_16QAM	23.22
n7	15	10	513000	50@0	DFT_64QAM	21.06
n7	15	10	513000	25@12	DFT_64QAM	21
n7	15	10	513000	1@1	DFT_64QAM	20.97
n7	15	10	513000	1@50	DFT_64QAM	20.94
n7	15	10	513000	50@0	DFT_256QAM	18.29
n7	15	10	513000	25@12	DFT_256QAM	18.95
n7	15	10	513000	1@1	DFT_256QAM	19.07
n7	15	10	513000	1@50	DFT_256QAM	19.11
n7	15	10	513000	52@0	CP_QPSK	20.51
n7	15	10	513000	26@13	CP_QPSK	23.08
n7	15	10	513000	1@1	CP_QPSK	23.17
n7	15	10	513000	1@50	CP_QPSK	23.22
n7	15	10	513000	52@0	CP_16QAM	20.52
n7	15	10	513000	26@13	CP_16QAM	21.4
n7	15	10	513000	1@1	CP_16QAM	21.64
n7	15	10	513000	1@50	CP_16QAM	21.65
n7	15	10	513000	52@0	CP_64QAM	19.96
n7	15	10	513000	26@13	CP_64QAM	20.01
n7	15	10	513000	1@1	CP_64QAM	19.85
n7	15	10	513000	1@50	CP_64QAM	19.86
n7	15	10	513000	52@0	CP_256QAM	16.31
n7	15	10	513000	26@13	CP_256QAM	16.86
n7	15	10	513000	1@1	CP_256QAM	16.46
n7	15	10	513000	1@50	CP_256QAM	17.24



n7	15	15	501500	75@0	DFT_BPSK	23.45
n7	15	15	501500	36@18	DFT_BPSK	23.51
n7	15	15	501500	1@1	DFT_BPSK	23.39
n7	15	15	501500	1@77	DFT_BPSK	23.35
n7	15	15	501500	75@0	DFT_QPSK	23.52
n7	15	15	501500	36@18	DFT_QPSK	23.52
n7	15	15	501500	1@1	DFT_QPSK	23.4
n7	15	15	501500	1@77	DFT_QPSK	23.36
n7	15	15	501500	75@0	DFT_16QAM	21.97
n7	15	15	501500	36@18	DFT_16QAM	23.01
n7	15	15	501500	1@1	DFT_16QAM	23.14
n7	15	15	501500	1@77	DFT_16QAM	23.07
n7	15	15	501500	75@0	DFT_64QAM	20.98
n7	15	15	501500	36@18	DFT_64QAM	21.02
n7	15	15	501500	1@1	DFT_64QAM	20.95
n7	15	15	501500	1@77	DFT_64QAM	20.93
n7	15	15	501500	75@0	DFT_256QAM	18.59
n7	15	15	501500	36@18	DFT_256QAM	18.91
n7	15	15	501500	1@1	DFT_256QAM	19.08
n7	15	15	501500	1@77	DFT_256QAM	19.06
n7	15	15	501500	79@0	CP_QPSK	20.43
n7	15	15	501500	39@19	CP_QPSK	22.95
n7	15	15	501500	1@1	CP_QPSK	23.07
n7	15	15	501500	1@77	CP_QPSK	23.03
n7	15	15	501500	79@0	CP_16QAM	20.44
n7	15	15	501500	39@19	CP_16QAM	21.48
n7	15	15	501500	1@1	CP_16QAM	21.55
n7	15	15	501500	1@77	CP_16QAM	21.6
n7	15	15	501500	79@0	CP_64QAM	20.01
n7	15	15	501500	39@19	CP_64QAM	19.93
n7	15	15	501500	1@1	CP_64QAM	19.81
n7	15	15	501500	1@77	CP_64QAM	19.85
n7	15	15	501500	79@0	CP_256QAM	16.55
n7	15	15	501500	39@19	CP_256QAM	16.83
n7	15	15	501500	1@1	CP_256QAM	16.85
n7	15	15	501500	1@77	CP_256QAM	17.07
n7	15	15	507000	75@0	DFT_BPSK	23.44
n7	15	15	507000	36@18	DFT_BPSK	23.41
n7	15	15	507000	1@1	DFT_BPSK	23.39
n7	15	15	507000	1@77	DFT_BPSK	23.32
n7	15	15	507000	75@0	DFT_QPSK	23.47
n7	15	15	507000	36@18	DFT_QPSK	23.48
n7	15	15	507000	1@1	DFT_QPSK	23.47
n7	15	15	507000	1@77	DFT_QPSK	23.37
n7	15	15	507000	75@0	DFT_16QAM	22.02
n7	15	15	507000	36@18	DFT_16QAM	22.98
n7	15	15	507000	1@1	DFT_16QAM	23.12
n7	15	15	507000	1@77	DFT_16QAM	22.96
n7	15	15	507000	75@0	DFT_64QAM	21
n7	15	15	507000	36@18	DFT_64QAM	20.92
n7	15	15	507000	1@1	DFT_64QAM	21.01
n7	15	15	507000	1@77	DFT_64QAM	20.93
n7	15	15	507000	75@0	DFT_256QAM	18.5
n7	15	15	507000	36@18	DFT_256QAM	18.88
n7	15	15	507000	1@1	DFT_256QAM	19.1
n7	15	15	507000	1@77	DFT_256QAM	19
n7	15	15	507000	79@0	CP_QPSK	20.43



n7	15	15	507000	39@19	CP_QPSK	22.96
n7	15	15	507000	1@1	CP_QPSK	23.07
n7	15	15	507000	1@77	CP_QPSK	23.01
n7	15	15	507000	79@0	CP_16QAM	20.46
n7	15	15	507000	39@19	CP_16QAM	21.4
n7	15	15	507000	1@1	CP_16QAM	21.57
n7	15	15	507000	1@77	CP_16QAM	21.47
n7	15	15	507000	79@0	CP_64QAM	19.98
n7	15	15	507000	39@19	CP_64QAM	19.91
n7	15	15	507000	1@1	CP_64QAM	19.84
n7	15	15	507000	1@77	CP_64QAM	19.8
n7	15	15	507000	79@0	CP_256QAM	16.82
n7	15	15	507000	39@19	CP_256QAM	16.72
n7	15	15	507000	1@1	CP_256QAM	17.14
n7	15	15	507000	1@77	CP_256QAM	16.58
n7	15	15	512500	75@0	DFT_BPSK	23.52
n7	15	15	512500	36@18	DFT_BPSK	23.53
n7	15	15	512500	1@1	DFT_BPSK	23.4
n7	15	15	512500	1@77	DFT_BPSK	23.41
n7	15	15	512500	75@0	DFT_QPSK	23.53
n7	15	15	512500	36@18	DFT_QPSK	23.58
n7	15	15	512500	1@1	DFT_QPSK	23.48
n7	15	15	512500	1@77	DFT_QPSK	23.47
n7	15	15	512500	75@0	DFT_16QAM	22.1
n7	15	15	512500	36@18	DFT_16QAM	23.06
n7	15	15	512500	1@1	DFT_16QAM	23.13
n7	15	15	512500	1@77	DFT_16QAM	23.24
n7	15	15	512500	75@0	DFT_64QAM	21.05
n7	15	15	512500	36@18	DFT_64QAM	21.05
n7	15	15	512500	1@1	DFT_64QAM	20.99
n7	15	15	512500	1@77	DFT_64QAM	20.96
n7	15	15	512500	75@0	DFT_256QAM	19.01
n7	15	15	512500	36@18	DFT_256QAM	19.39
n7	15	15	512500	1@1	DFT_256QAM	19.1
n7	15	15	512500	1@77	DFT_256QAM	19.08
n7	15	15	512500	79@0	CP_QPSK	20.44
n7	15	15	512500	39@19	CP_QPSK	23.13
n7	15	15	512500	1@1	CP_QPSK	23.12
n7	15	15	512500	1@77	CP_QPSK	23.19
n7	15	15	512500	79@0	CP_16QAM	20.53
n7	15	15	512500	39@19	CP_16QAM	21.52
n7	15	15	512500	1@1	CP_16QAM	21.58
n7	15	15	512500	1@77	CP_16QAM	21.55
n7	15	15	512500	79@0	CP_64QAM	20.03
n7	15	15	512500	39@19	CP_64QAM	19.97
n7	15	15	512500	1@1	CP_64QAM	19.84
n7	15	15	512500	1@77	CP_64QAM	19.83
n7	15	15	512500	79@0	CP_256QAM	16.88
n7	15	15	512500	39@19	CP_256QAM	16.32
n7	15	15	512500	1@1	CP_256QAM	17.15
n7	15	15	512500	1@77	CP_256QAM	16.36



n7	15	20	502000	100@0	DFT_BPSK	23.47
n7	15	20	502000	50@25	DFT_BPSK	23.5
n7	15	20	502000	1@1	DFT_BPSK	23.82
n7	15	20	502000	1@104	DFT_BPSK	23.35
n7	15	20	502000	100@0	DFT_QPSK	23.95
n7	15	20	502000	50@25	DFT_QPSK	23.56
n7	15	20	502000	1@1	DFT_QPSK	23.87
n7	15	20	502000	1@104	DFT_QPSK	23.85
n7	15	20	502000	100@0	DFT_16QAM	21.98
n7	15	20	502000	50@25	DFT_16QAM	23.51
n7	15	20	502000	1@1	DFT_16QAM	23.11
n7	15	20	502000	1@104	DFT_16QAM	23.1
n7	15	20	502000	100@0	DFT_64QAM	21.48
n7	15	20	502000	50@25	DFT_64QAM	21.02
n7	15	20	502000	1@1	DFT_64QAM	21.38
n7	15	20	502000	1@104	DFT_64QAM	20.89
n7	15	20	502000	100@0	DFT_256QAM	18.96
n7	15	20	502000	50@25	DFT_256QAM	19.43
n7	15	20	502000	1@1	DFT_256QAM	18.81
n7	15	20	502000	1@104	DFT_256QAM	19.1
n7	15	20	502000	106@0	CP_QPSK	20.47
n7	15	20	502000	53@26	CP_QPSK	23.51
n7	15	20	502000	1@1	CP_QPSK	23.48
n7	15	20	502000	1@104	CP_QPSK	23.04
n7	15	20	502000	106@0	CP_16QAM	20.89
n7	15	20	502000	53@26	CP_16QAM	21.55
n7	15	20	502000	1@1	CP_16QAM	21.98
n7	15	20	502000	1@104	CP_16QAM	21.94
n7	15	20	502000	106@0	CP_64QAM	20.41
n7	15	20	502000	53@26	CP_64QAM	19.99
n7	15	20	502000	1@1	CP_64QAM	19.89
n7	15	20	502000	1@104	CP_64QAM	19.79
n7	15	20	502000	106@0	CP_256QAM	17.09
n7	15	20	502000	53@26	CP_256QAM	17.42
n7	15	20	502000	1@1	CP_256QAM	16.92
n7	15	20	502000	1@104	CP_256QAM	17.11
n7	15	20	507000	100@0	DFT_BPSK	23.9
n7	15	20	507000	50@25	DFT_BPSK	24.01
n7	15	20	507000	1@1	DFT_BPSK	23.84
n7	15	20	507000	1@104	DFT_BPSK	23.85
n7	15	20	507000	100@0	DFT_QPSK	23.94
n7	15	20	507000	50@25	DFT_QPSK	24.03
n7	15	20	507000	1@1	DFT_QPSK	23.82
n7	15	20	507000	1@104	DFT_QPSK	23.82
n7	15	20	507000	100@0	DFT_16QAM	22.41
n7	15	20	507000	50@25	DFT_16QAM	23.57
n7	15	20	507000	1@1	DFT_16QAM	23.59
n7	15	20	507000	1@104	DFT_16QAM	23.55
n7	15	20	507000	100@0	DFT_64QAM	21.43
n7	15	20	507000	50@25	DFT_64QAM	21.51
n7	15	20	507000	1@1	DFT_64QAM	21.49
n7	15	20	507000	1@104	DFT_64QAM	21.42
n7	15	20	507000	100@0	DFT_256QAM	19.07
n7	15	20	507000	50@25	DFT_256QAM	19.37
n7	15	20	507000	1@1	DFT_256QAM	19.62
n7	15	20	507000	1@104	DFT_256QAM	19.53
n7	15	20	507000	106@0	CP_QPSK	20.88



n7	15	20	507000	53@26	CP_QPSK	23.46
n7	15	20	507000	1@1	CP_QPSK	23.57
n7	15	20	507000	1@104	CP_QPSK	23.47
n7	15	20	507000	106@0	CP_16QAM	20.89
n7	15	20	507000	53@26	CP_16QAM	21.92
n7	15	20	507000	1@1	CP_16QAM	22
n7	15	20	507000	1@104	CP_16QAM	21.94
n7	15	20	507000	106@0	CP_64QAM	20.32
n7	15	20	507000	53@26	CP_64QAM	20.44
n7	15	20	507000	1@1	CP_64QAM	20.33
n7	15	20	507000	1@104	CP_64QAM	20.32
n7	15	20	507000	106@0	CP_256QAM	17.35
n7	15	20	507000	53@26	CP_256QAM	17.38
n7	15	20	507000	1@1	CP_256QAM	17.09
n7	15	20	507000	1@104	CP_256QAM	17.62
n7	15	20	512000	100@0	DFT_BPSK	23.95
n7	15	20	512000	50@25	DFT_BPSK	24.05
n7	15	20	512000	1@1	DFT_BPSK	23.85
n7	15	20	512000	1@104	DFT_BPSK	23.87
n7	15	20	512000	100@0	DFT_QPSK	23.98
n7	15	20	512000	50@25	DFT_QPSK	24.08
n7	15	20	512000	1@1	DFT_QPSK	23.8
n7	15	20	512000	1@104	DFT_QPSK	23.84
n7	15	20	512000	100@0	DFT_16QAM	22.43
n7	15	20	512000	50@25	DFT_16QAM	23.65
n7	15	20	512000	1@1	DFT_16QAM	23.59
n7	15	20	512000	1@104	DFT_16QAM	23.64
n7	15	20	512000	100@0	DFT_64QAM	21.44
n7	15	20	512000	50@25	DFT_64QAM	21.58
n7	15	20	512000	1@1	DFT_64QAM	21.45
n7	15	20	512000	1@104	DFT_64QAM	21.44
n7	15	20	512000	100@0	DFT_256QAM	19.03
n7	15	20	512000	50@25	DFT_256QAM	19.45
n7	15	20	512000	1@1	DFT_256QAM	19.6
n7	15	20	512000	1@104	DFT_256QAM	19.61
n7	15	20	512000	106@0	CP_QPSK	20.92
n7	15	20	512000	53@26	CP_QPSK	23.56
n7	15	20	512000	1@1	CP_QPSK	23.57
n7	15	20	512000	1@104	CP_QPSK	23.65
n7	15	20	512000	106@0	CP_16QAM	20.91
n7	15	20	512000	53@26	CP_16QAM	22.04
n7	15	20	512000	1@1	CP_16QAM	22.04
n7	15	20	512000	1@104	CP_16QAM	22.01
n7	15	20	512000	106@0	CP_64QAM	20.36
n7	15	20	512000	53@26	CP_64QAM	20.47
n7	15	20	512000	1@1	CP_64QAM	20.35
n7	15	20	512000	1@104	CP_64QAM	20.32
n7	15	20	512000	106@0	CP_256QAM	17.32
n7	15	20	512000	53@26	CP_256QAM	17.05
n7	15	20	512000	1@1	CP_256QAM	17.7
n7	15	20	512000	1@104	CP_256QAM	16.83



n25	15	10	371000	50@0	DFT_BPSK	23.19
n25	15	10	371000	25@12	DFT_BPSK	23.18
n25	15	10	371000	1@1	DFT_BPSK	23.05
n25	15	10	371000	1@50	DFT_BPSK	23.02
n25	15	10	371000	50@0	DFT_QPSK	23.23
n25	15	10	371000	25@12	DFT_QPSK	23.18
n25	15	10	371000	1@1	DFT_QPSK	23.16
n25	15	10	371000	1@50	DFT_QPSK	23.1
n25	15	10	371000	50@0	DFT_16QAM	21.77
n25	15	10	371000	25@12	DFT_16QAM	22.68
n25	15	10	371000	1@1	DFT_16QAM	22.89
n25	15	10	371000	1@50	DFT_16QAM	22.78
n25	15	10	371000	50@0	DFT_64QAM	20.73
n25	15	10	371000	25@12	DFT_64QAM	20.57
n25	15	10	371000	1@1	DFT_64QAM	20.62
n25	15	10	371000	1@50	DFT_64QAM	20.59
n25	15	10	371000	50@0	DFT_256QAM	18.36
n25	15	10	371000	25@12	DFT_256QAM	18.59
n25	15	10	371000	1@1	DFT_256QAM	18.55
n25	15	10	371000	1@50	DFT_256QAM	18.72
n25	15	10	371000	52@0	CP_QPSK	20.18
n25	15	10	371000	26@13	CP_QPSK	22.68
n25	15	10	371000	1@1	CP_QPSK	22.9
n25	15	10	371000	1@50	CP_QPSK	22.78
n25	15	10	371000	52@0	CP_16QAM	20.18
n25	15	10	371000	26@13	CP_16QAM	21.08
n25	15	10	371000	1@1	CP_16QAM	21.44
n25	15	10	371000	1@50	CP_16QAM	21.34
n25	15	10	371000	52@0	CP_64QAM	19.67
n25	15	10	371000	26@13	CP_64QAM	19.64
n25	15	10	371000	1@1	CP_64QAM	19.54
n25	15	10	371000	1@50	CP_64QAM	19.53
n25	15	10	371000	52@0	CP_256QAM	16.56
n25	15	10	371000	26@13	CP_256QAM	16.73
n25	15	10	371000	1@1	CP_256QAM	16.59
n25	15	10	371000	1@50	CP_256QAM	16.94
n25	15	10	376500	50@0	DFT_BPSK	23.37
n25	15	10	376500	25@12	DFT_BPSK	23.38
n25	15	10	376500	1@1	DFT_BPSK	23.23
n25	15	10	376500	1@50	DFT_BPSK	23.44
n25	15	10	376500	50@0	DFT_QPSK	23.49
n25	15	10	376500	25@12	DFT_QPSK	23.46
n25	15	10	376500	1@1	DFT_QPSK	23.17
n25	15	10	376500	1@50	DFT_QPSK	23.45
n25	15	10	376500	50@0	DFT_16QAM	22.01
n25	15	10	376500	25@12	DFT_16QAM	22.93
n25	15	10	376500	1@1	DFT_16QAM	22.97
n25	15	10	376500	1@50	DFT_16QAM	23.19
n25	15	10	376500	50@0	DFT_64QAM	21.02
n25	15	10	376500	25@12	DFT_64QAM	20.82
n25	15	10	376500	1@1	DFT_64QAM	20.73
n25	15	10	376500	1@50	DFT_64QAM	20.94
n25	15	10	376500	50@0	DFT_256QAM	18.59
n25	15	10	376500	25@12	DFT_256QAM	18.84
n25	15	10	376500	1@1	DFT_256QAM	18.91
n25	15	10	376500	1@50	DFT_256QAM	19.11
n25	15	10	376500	52@0	CP_QPSK	20.37



n25	15	10	376500	26@13	CP_QPSK	23.06
n25	15	10	376500	1@1	CP_QPSK	23
n25	15	10	376500	1@50	CP_QPSK	23.19
n25	15	10	376500	52@0	CP_16QAM	20.39
n25	15	10	376500	26@13	CP_16QAM	21.39
n25	15	10	376500	1@1	CP_16QAM	21.33
n25	15	10	376500	1@50	CP_16QAM	21.59
n25	15	10	376500	52@0	CP_64QAM	19.86
n25	15	10	376500	26@13	CP_64QAM	19.97
n25	15	10	376500	1@1	CP_64QAM	19.6
n25	15	10	376500	1@50	CP_64QAM	19.86
n25	15	10	376500	52@0	CP_256QAM	16.99
n25	15	10	376500	26@13	CP_256QAM	17.23
n25	15	10	376500	1@1	CP_256QAM	17.07
n25	15	10	376500	1@50	CP_256QAM	17.33
n25	15	10	382000	50@0	DFT_BPSK	23.08
n25	15	10	382000	25@12	DFT_BPSK	23.08
n25	15	10	382000	1@1	DFT_BPSK	23.41
n25	15	10	382000	1@50	DFT_BPSK	23.48
n25	15	10	382000	50@0	DFT_QPSK	23.11
n25	15	10	382000	25@12	DFT_QPSK	23.6
n25	15	10	382000	1@1	DFT_QPSK	23.02
n25	15	10	382000	1@50	DFT_QPSK	23.48
n25	15	10	382000	50@0	DFT_16QAM	22.14
n25	15	10	382000	25@12	DFT_16QAM	23.08
n25	15	10	382000	1@1	DFT_16QAM	23.22
n25	15	10	382000	1@50	DFT_16QAM	23.36
n25	15	10	382000	50@0	DFT_64QAM	20.62
n25	15	10	382000	25@12	DFT_64QAM	20.52
n25	15	10	382000	1@1	DFT_64QAM	20.94
n25	15	10	382000	1@50	DFT_64QAM	20.53
n25	15	10	382000	50@0	DFT_256QAM	19
n25	15	10	382000	25@12	DFT_256QAM	18.47
n25	15	10	382000	1@1	DFT_256QAM	18.59
n25	15	10	382000	1@50	DFT_256QAM	18.68
n25	15	10	382000	52@0	CP_QPSK	20.57
n25	15	10	382000	26@13	CP_QPSK	22.63
n25	15	10	382000	1@1	CP_QPSK	22.79
n25	15	10	382000	1@50	CP_QPSK	22.93
n25	15	10	382000	52@0	CP_16QAM	20.12
n25	15	10	382000	26@13	CP_16QAM	20.89
n25	15	10	382000	1@1	CP_16QAM	21.18
n25	15	10	382000	1@50	CP_16QAM	21.69
n25	15	10	382000	52@0	CP_64QAM	19.55
n25	15	10	382000	26@13	CP_64QAM	20.06
n25	15	10	382000	1@1	CP_64QAM	19.35
n25	15	10	382000	1@50	CP_64QAM	19.89
n25	15	10	382000	52@0	CP_256QAM	16.36
n25	15	10	382000	26@13	CP_256QAM	16.88
n25	15	10	382000	1@1	CP_256QAM	16.39
n25	15	10	382000	1@50	CP_256QAM	16.7



n25	15	15	371500	75@0	DFT_BPSK	23.31
n25	15	15	371500	36@18	DFT_BPSK	23.3
n25	15	15	371500	1@1	DFT_BPSK	23.22
n25	15	15	371500	1@77	DFT_BPSK	23.16
n25	15	15	371500	75@0	DFT_QPSK	23.33
n25	15	15	371500	36@18	DFT_QPSK	23.34
n25	15	15	371500	1@1	DFT_QPSK	23.27
n25	15	15	371500	1@77	DFT_QPSK	23.23
n25	15	15	371500	75@0	DFT_16QAM	21.85
n25	15	15	371500	36@18	DFT_16QAM	22.8
n25	15	15	371500	1@1	DFT_16QAM	22.99
n25	15	15	371500	1@77	DFT_16QAM	22.89
n25	15	15	371500	75@0	DFT_64QAM	20.79
n25	15	15	371500	36@18	DFT_64QAM	20.8
n25	15	15	371500	1@1	DFT_64QAM	20.65
n25	15	15	371500	1@77	DFT_64QAM	20.59
n25	15	15	371500	75@0	DFT_256QAM	18.35
n25	15	15	371500	36@18	DFT_256QAM	18.74
n25	15	15	371500	1@1	DFT_256QAM	18.69
n25	15	15	371500	1@77	DFT_256QAM	18.83
n25	15	15	371500	79@0	CP_QPSK	20.27
n25	15	15	371500	39@19	CP_QPSK	22.87
n25	15	15	371500	1@1	CP_QPSK	22.96
n25	15	15	371500	1@77	CP_QPSK	22.89
n25	15	15	371500	79@0	CP_16QAM	20.31
n25	15	15	371500	39@19	CP_16QAM	21.27
n25	15	15	371500	1@1	CP_16QAM	21.52
n25	15	15	371500	1@77	CP_16QAM	21.46
n25	15	15	371500	79@0	CP_64QAM	19.83
n25	15	15	371500	39@19	CP_64QAM	19.75
n25	15	15	371500	1@1	CP_64QAM	19.65
n25	15	15	371500	1@77	CP_64QAM	19.63
n25	15	15	371500	79@0	CP_256QAM	16.39
n25	15	15	371500	39@19	CP_256QAM	16.82
n25	15	15	371500	1@1	CP_256QAM	16.56
n25	15	15	371500	1@77	CP_256QAM	17.04
n25	15	15	376500	75@0	DFT_BPSK	23.47
n25	15	15	376500	36@18	DFT_BPSK	23.4
n25	15	15	376500	1@1	DFT_BPSK	23.25
n25	15	15	376500	1@77	DFT_BPSK	23.51
n25	15	15	376500	75@0	DFT_QPSK	23.51
n25	15	15	376500	36@18	DFT_QPSK	23.46
n25	15	15	376500	1@1	DFT_QPSK	23.28
n25	15	15	376500	1@77	DFT_QPSK	23.52
n25	15	15	376500	75@0	DFT_16QAM	22.01
n25	15	15	376500	36@18	DFT_16QAM	22.94
n25	15	15	376500	1@1	DFT_16QAM	23.02
n25	15	15	376500	1@77	DFT_16QAM	23.2
n25	15	15	376500	75@0	DFT_64QAM	20.94
n25	15	15	376500	36@18	DFT_64QAM	20.96
n25	15	15	376500	1@1	DFT_64QAM	20.77
n25	15	15	376500	1@77	DFT_64QAM	21.04
n25	15	15	376500	75@0	DFT_256QAM	18.92
n25	15	15	376500	36@18	DFT_256QAM	18.43
n25	15	15	376500	1@1	DFT_256QAM	18.94
n25	15	15	376500	1@77	DFT_256QAM	19.17
n25	15	15	376500	79@0	CP_QPSK	20.37



n25	15	15	376500	39@19	CP_QPSK	23.05
n25	15	15	376500	1@1	CP_QPSK	23.01
n25	15	15	376500	1@77	CP_QPSK	23.21
n25	15	15	376500	79@0	CP_16QAM	20.44
n25	15	15	376500	39@19	CP_16QAM	21.45
n25	15	15	376500	1@1	CP_16QAM	21.43
n25	15	15	376500	1@77	CP_16QAM	21.62
n25	15	15	376500	79@0	CP_64QAM	19.9
n25	15	15	376500	39@19	CP_64QAM	19.87
n25	15	15	376500	1@1	CP_64QAM	19.64
n25	15	15	376500	1@77	CP_64QAM	19.88
n25	15	15	376500	79@0	CP_256QAM	16.53
n25	15	15	376500	39@19	CP_256QAM	16.94
n25	15	15	376500	1@1	CP_256QAM	16.46
n25	15	15	376500	1@77	CP_256QAM	17.31
n25	15	15	381500	75@0	DFT_BPSK	23.49
n25	15	15	381500	36@18	DFT_BPSK	23.54
n25	15	15	381500	1@1	DFT_BPSK	23.44
n25	15	15	381500	1@77	DFT_BPSK	23.46
n25	15	15	381500	75@0	DFT_QPSK	23.59
n25	15	15	381500	36@18	DFT_QPSK	23.61
n25	15	15	381500	1@1	DFT_QPSK	23.48
n25	15	15	381500	1@77	DFT_QPSK	23.53
n25	15	15	381500	75@0	DFT_16QAM	22.1
n25	15	15	381500	36@18	DFT_16QAM	23.12
n25	15	15	381500	1@1	DFT_16QAM	23.24
n25	15	15	381500	1@77	DFT_16QAM	23.39
n25	15	15	381500	75@0	DFT_64QAM	21.01
n25	15	15	381500	36@18	DFT_64QAM	21.1
n25	15	15	381500	1@1	DFT_64QAM	21.01
n25	15	15	381500	1@77	DFT_64QAM	20.97
n25	15	15	381500	75@0	DFT_256QAM	18.7
n25	15	15	381500	36@18	DFT_256QAM	18.98
n25	15	15	381500	1@1	DFT_256QAM	19.17
n25	15	15	381500	1@77	DFT_256QAM	19.17
n25	15	15	381500	79@0	CP_QPSK	20.45
n25	15	15	381500	39@19	CP_QPSK	23.19
n25	15	15	381500	1@1	CP_QPSK	23.28
n25	15	15	381500	1@77	CP_QPSK	23.4
n25	15	15	381500	79@0	CP_16QAM	20.53
n25	15	15	381500	39@19	CP_16QAM	21.51
n25	15	15	381500	1@1	CP_16QAM	21.8
n25	15	15	381500	1@77	CP_16QAM	21.81
n25	15	15	381500	79@0	CP_64QAM	20.06
n25	15	15	381500	39@19	CP_64QAM	19.94
n25	15	15	381500	1@1	CP_64QAM	19.83
n25	15	15	381500	1@77	CP_64QAM	19.87
n25	15	15	381500	79@0	CP_256QAM	16.69
n25	15	15	381500	39@19	CP_256QAM	16.92
n25	15	15	381500	1@1	CP_256QAM	16.58
n25	15	15	381500	1@77	CP_256QAM	17.13



n25	15	20	372000	100@0	DFT_BPSK	23.3
n25	15	20	372000	50@25	DFT_BPSK	23.83
n25	15	20	372000	1@1	DFT_BPSK	23.64
n25	15	20	372000	1@104	DFT_BPSK	23.14
n25	15	20	372000	100@0	DFT_QPSK	23.34
n25	15	20	372000	50@25	DFT_QPSK	23.34
n25	15	20	372000	1@1	DFT_QPSK	23.79
n25	15	20	372000	1@104	DFT_QPSK	23.72
n25	15	20	372000	100@0	DFT_16QAM	22.34
n25	15	20	372000	50@25	DFT_16QAM	23.4
n25	15	20	372000	1@1	DFT_16QAM	23.41
n25	15	20	372000	1@104	DFT_16QAM	23.35
n25	15	20	372000	100@0	DFT_64QAM	21.33
n25	15	20	372000	50@25	DFT_64QAM	21.35
n25	15	20	372000	1@1	DFT_64QAM	20.74
n25	15	20	372000	1@104	DFT_64QAM	20.65
n25	15	20	372000	100@0	DFT_256QAM	18.96
n25	15	20	372000	50@25	DFT_256QAM	19.26
n25	15	20	372000	1@1	DFT_256QAM	18.76
n25	15	20	372000	1@104	DFT_256QAM	18.86
n25	15	20	372000	106@0	CP_QPSK	20.8
n25	15	20	372000	53@26	CP_QPSK	22.88
n25	15	20	372000	1@1	CP_QPSK	22.94
n25	15	20	372000	1@104	CP_QPSK	23.3
n25	15	20	372000	106@0	CP_16QAM	20.79
n25	15	20	372000	53@26	CP_16QAM	21.84
n25	15	20	372000	1@1	CP_16QAM	21.28
n25	15	20	372000	1@104	CP_16QAM	21.72
n25	15	20	372000	106@0	CP_64QAM	19.79
n25	15	20	372000	53@26	CP_64QAM	20.28
n25	15	20	372000	1@1	CP_64QAM	19.57
n25	15	20	372000	1@104	CP_64QAM	19.98
n25	15	20	372000	106@0	CP_256QAM	17.09
n25	15	20	372000	53@26	CP_256QAM	17.44
n25	15	20	372000	1@1	CP_256QAM	17.07
n25	15	20	372000	1@104	CP_256QAM	17.42
n25	15	20	376500	100@0	DFT_BPSK	23.85
n25	15	20	376500	50@25	DFT_BPSK	23.97
n25	15	20	376500	1@1	DFT_BPSK	23.6
n25	15	20	376500	1@104	DFT_BPSK	24.01
n25	15	20	376500	100@0	DFT_QPSK	23.95
n25	15	20	376500	50@25	DFT_QPSK	24.04
n25	15	20	376500	1@1	DFT_QPSK	23.59
n25	15	20	376500	1@104	DFT_QPSK	23.99
n25	15	20	376500	100@0	DFT_16QAM	22.36
n25	15	20	376500	50@25	DFT_16QAM	23.58
n25	15	20	376500	1@1	DFT_16QAM	23.4
n25	15	20	376500	1@104	DFT_16QAM	23.74
n25	15	20	376500	100@0	DFT_64QAM	21.38
n25	15	20	376500	50@25	DFT_64QAM	21.52
n25	15	20	376500	1@1	DFT_64QAM	21.12
n25	15	20	376500	1@104	DFT_64QAM	21.47
n25	15	20	376500	100@0	DFT_256QAM	18.95
n25	15	20	376500	50@25	DFT_256QAM	19.38
n25	15	20	376500	1@1	DFT_256QAM	19.28
n25	15	20	376500	1@104	DFT_256QAM	19.61
n25	15	20	376500	106@0	CP_QPSK	20.87



n25	15	20	376500	53@26	CP_QPSK	23.48
n25	15	20	376500	1@1	CP_QPSK	23.35
n25	15	20	376500	1@104	CP_QPSK	23.7
n25	15	20	376500	106@0	CP_16QAM	20.86
n25	15	20	376500	53@26	CP_16QAM	21.98
n25	15	20	376500	1@1	CP_16QAM	21.92
n25	15	20	376500	1@104	CP_16QAM	22.03
n25	15	20	376500	106@0	CP_64QAM	20.3
n25	15	20	376500	53@26	CP_64QAM	20.45
n25	15	20	376500	1@1	CP_64QAM	19.95
n25	15	20	376500	1@104	CP_64QAM	20.39
n25	15	20	376500	106@0	CP_256QAM	17.92
n25	15	20	376500	53@26	CP_256QAM	17.51
n25	15	20	376500	1@1	CP_256QAM	17.44
n25	15	20	376500	1@104	CP_256QAM	17.82
n25	15	20	381000	100@0	DFT_BPSK	23.95
n25	15	20	381000	50@25	DFT_BPSK	24.11
n25	15	20	381000	1@1	DFT_BPSK	23.95
n25	15	20	381000	1@104	DFT_BPSK	23.95
n25	15	20	381000	100@0	DFT_QPSK	24.02
n25	15	20	381000	50@25	DFT_QPSK	24.07
n25	15	20	381000	1@1	DFT_QPSK	24
n25	15	20	381000	1@104	DFT_QPSK	24.07
n25	15	20	381000	100@0	DFT_16QAM	22.54
n25	15	20	381000	50@25	DFT_16QAM	23.72
n25	15	20	381000	1@1	DFT_16QAM	23.69
n25	15	20	381000	1@104	DFT_16QAM	23.8
n25	15	20	381000	100@0	DFT_64QAM	21.49
n25	15	20	381000	50@25	DFT_64QAM	21.6
n25	15	20	381000	1@1	DFT_64QAM	21.52
n25	15	20	381000	1@104	DFT_64QAM	21.48
n25	15	20	381000	100@0	DFT_256QAM	18.86
n25	15	20	381000	50@25	DFT_256QAM	19.49
n25	15	20	381000	1@1	DFT_256QAM	19.7
n25	15	20	381000	1@104	DFT_256QAM	19.59
n25	15	20	381000	106@0	CP_QPSK	20.85
n25	15	20	381000	53@26	CP_QPSK	23.62
n25	15	20	381000	1@1	CP_QPSK	23.72
n25	15	20	381000	1@104	CP_QPSK	23.79
n25	15	20	381000	106@0	CP_16QAM	20.93
n25	15	20	381000	53@26	CP_16QAM	22.08
n25	15	20	381000	1@1	CP_16QAM	22.24
n25	15	20	381000	1@104	CP_16QAM	22.4
n25	15	20	381000	106@0	CP_64QAM	20.34
n25	15	20	381000	53@26	CP_64QAM	20.56
n25	15	20	381000	1@1	CP_64QAM	20.41
n25	15	20	381000	1@104	CP_64QAM	20.37
n25	15	20	381000	106@0	CP_256QAM	17.32
n25	15	20	381000	53@26	CP_256QAM	17.47
n25	15	20	381000	1@1	CP_256QAM	17.19
n25	15	20	381000	1@104	CP_256QAM	17.66



n38	30	15	515500	36@0	DFT_BPSK	23.49
n38	30	15	515500	18@9	DFT_BPSK	23.48
n38	30	15	515500	1@1	DFT_BPSK	23.32
n38	30	15	515500	1@36	DFT_BPSK	23.4
n38	30	15	515500	36@0	DFT_QPSK	23.54
n38	30	15	515500	18@9	DFT_QPSK	23.54
n38	30	15	515500	1@1	DFT_QPSK	23.34
n38	30	15	515500	1@36	DFT_QPSK	23.41
n38	30	15	515500	36@0	DFT_16QAM	22.04
n38	30	15	515500	18@9	DFT_16QAM	23.1
n38	30	15	515500	1@1	DFT_16QAM	23.05
n38	30	15	515500	1@36	DFT_16QAM	23.14
n38	30	15	515500	36@0	DFT_64QAM	21.02
n38	30	15	515500	18@9	DFT_64QAM	21.02
n38	30	15	515500	1@1	DFT_64QAM	20.76
n38	30	15	515500	1@36	DFT_64QAM	20.83
n38	30	15	515500	36@0	DFT_256QAM	19.2
n38	30	15	515500	18@9	DFT_256QAM	19.02
n38	30	15	515500	1@1	DFT_256QAM	19.02
n38	30	15	515500	1@36	DFT_256QAM	19.11
n38	30	15	515500	38@0	CP_QPSK	20.51
n38	30	15	515500	19@9	CP_QPSK	23.02
n38	30	15	515500	1@1	CP_QPSK	23.17
n38	30	15	515500	1@36	CP_QPSK	23.3
n38	30	15	515500	38@0	CP_16QAM	20.53
n38	30	15	515500	19@9	CP_16QAM	21.49
n38	30	15	515500	1@1	CP_16QAM	21.27
n38	30	15	515500	1@36	CP_16QAM	21.33
n38	30	15	515500	38@0	CP_64QAM	19.96
n38	30	15	515500	19@9	CP_64QAM	19.94
n38	30	15	515500	1@1	CP_64QAM	19.67
n38	30	15	515500	1@36	CP_64QAM	19.72
n38	30	15	515500	38@0	CP_256QAM	16.98
n38	30	15	515500	19@9	CP_256QAM	17.5
n38	30	15	515500	1@1	CP_256QAM	17.1
n38	30	15	515500	1@36	CP_256QAM	17.41
n38	30	15	519000	36@0	DFT_BPSK	23.54
n38	30	15	519000	18@9	DFT_BPSK	23.53
n38	30	15	519000	1@1	DFT_BPSK	23.41
n38	30	15	519000	1@36	DFT_BPSK	23.34
n38	30	15	519000	36@0	DFT_QPSK	23.54
n38	30	15	519000	18@9	DFT_QPSK	23.55
n38	30	15	519000	1@1	DFT_QPSK	23.52
n38	30	15	519000	1@36	DFT_QPSK	23.35
n38	30	15	519000	36@0	DFT_16QAM	22.05
n38	30	15	519000	18@9	DFT_16QAM	23.1
n38	30	15	519000	1@1	DFT_16QAM	23.16
n38	30	15	519000	1@36	DFT_16QAM	23.1
n38	30	15	519000	36@0	DFT_64QAM	21.03
n38	30	15	519000	18@9	DFT_64QAM	21.02
n38	30	15	519000	1@1	DFT_64QAM	20.86
n38	30	15	519000	1@36	DFT_64QAM	20.75
n38	30	15	519000	36@0	DFT_256QAM	19.44
n38	30	15	519000	18@9	DFT_256QAM	19.03
n38	30	15	519000	1@1	DFT_256QAM	19.08
n38	30	15	519000	1@36	DFT_256QAM	19.26
n38	30	15	519000	38@0	CP_QPSK	20.56



n38	30	15	519000	19@9	CP_QPSK	23.12
n38	30	15	519000	1@1	CP_QPSK	23.51
n38	30	15	519000	1@36	CP_QPSK	23.44
n38	30	15	519000	38@0	CP_16QAM	20.56
n38	30	15	519000	19@9	CP_16QAM	21.54
n38	30	15	519000	1@1	CP_16QAM	21.39
n38	30	15	519000	1@36	CP_16QAM	21.27
n38	30	15	519000	38@0	CP_64QAM	19.97
n38	30	15	519000	19@9	CP_64QAM	19.96
n38	30	15	519000	1@1	CP_64QAM	19.79
n38	30	15	519000	1@36	CP_64QAM	19.69
n38	30	15	519000	38@0	CP_256QAM	17.19
n38	30	15	519000	19@9	CP_256QAM	17.02
n38	30	15	519000	1@1	CP_256QAM	17.16
n38	30	15	519000	1@36	CP_256QAM	17.12
n38	30	15	522500	36@0	DFT_BPSK	23.47
n38	30	15	522500	18@9	DFT_BPSK	23.45
n38	30	15	522500	1@1	DFT_BPSK	23.27
n38	30	15	522500	1@36	DFT_BPSK	23.37
n38	30	15	522500	36@0	DFT_QPSK	23.5
n38	30	15	522500	18@9	DFT_QPSK	23.51
n38	30	15	522500	1@1	DFT_QPSK	23.33
n38	30	15	522500	1@36	DFT_QPSK	23.4
n38	30	15	522500	36@0	DFT_16QAM	22.03
n38	30	15	522500	18@9	DFT_16QAM	23.07
n38	30	15	522500	1@1	DFT_16QAM	22.94
n38	30	15	522500	1@36	DFT_16QAM	23.02
n38	30	15	522500	36@0	DFT_64QAM	20.98
n38	30	15	522500	18@9	DFT_64QAM	20.94
n38	30	15	522500	1@1	DFT_64QAM	20.71
n38	30	15	522500	1@36	DFT_64QAM	20.83
n38	30	15	522500	36@0	DFT_256QAM	18.47
n38	30	15	522500	18@9	DFT_256QAM	18.89
n38	30	15	522500	1@1	DFT_256QAM	18.97
n38	30	15	522500	1@36	DFT_256QAM	19.08
n38	30	15	522500	38@0	CP_QPSK	20.47
n38	30	15	522500	19@9	CP_QPSK	22.99
n38	30	15	522500	1@1	CP_QPSK	22.57
n38	30	15	522500	1@36	CP_QPSK	22.65
n38	30	15	522500	38@0	CP_16QAM	20.47
n38	30	15	522500	19@9	CP_16QAM	21.43
n38	30	15	522500	1@1	CP_16QAM	21.41
n38	30	15	522500	1@36	CP_16QAM	21.52
n38	30	15	522500	38@0	CP_64QAM	19.95
n38	30	15	522500	19@9	CP_64QAM	19.98
n38	30	15	522500	1@1	CP_64QAM	19.72
n38	30	15	522500	1@36	CP_64QAM	19.72
n38	30	15	522500	38@0	CP_256QAM	16.37
n38	30	15	522500	19@9	CP_256QAM	16.95
n38	30	15	522500	1@1	CP_256QAM	17.09
n38	30	15	522500	1@36	CP_256QAM	17.02



n38	30	20	516000	50@0	DFT_BPSK	23.52
n38	30	20	516000	25@12	DFT_BPSK	23.51
n38	30	20	516000	1@1	DFT_BPSK	23.26
n38	30	20	516000	1@49	DFT_BPSK	23.41
n38	30	20	516000	50@0	DFT_QPSK	23.55
n38	30	20	516000	25@12	DFT_QPSK	23.57
n38	30	20	516000	1@1	DFT_QPSK	23.32
n38	30	20	516000	1@49	DFT_QPSK	23.44
n38	30	20	516000	50@0	DFT_16QAM	22.01
n38	30	20	516000	25@12	DFT_16QAM	23.08
n38	30	20	516000	1@1	DFT_16QAM	22.9
n38	30	20	516000	1@49	DFT_16QAM	23.04
n38	30	20	516000	50@0	DFT_64QAM	21
n38	30	20	516000	25@12	DFT_64QAM	21.01
n38	30	20	516000	1@1	DFT_64QAM	20.74
n38	30	20	516000	1@49	DFT_64QAM	20.82
n38	30	20	516000	50@0	DFT_256QAM	18.66
n38	30	20	516000	25@12	DFT_256QAM	18.97
n38	30	20	516000	1@1	DFT_256QAM	18.97
n38	30	20	516000	1@49	DFT_256QAM	19.04
n38	30	20	516000	51@0	CP_QPSK	20.57
n38	30	20	516000	25@12	CP_QPSK	23.04
n38	30	20	516000	1@1	CP_QPSK	22.95
n38	30	20	516000	1@49	CP_QPSK	23.13
n38	30	20	516000	51@0	CP_16QAM	20.49
n38	30	20	516000	25@12	CP_16QAM	21.57
n38	30	20	516000	1@1	CP_16QAM	21.19
n38	30	20	516000	1@49	CP_16QAM	21.34
n38	30	20	516000	51@0	CP_64QAM	20
n38	30	20	516000	25@12	CP_64QAM	19.96
n38	30	20	516000	1@1	CP_64QAM	19.62
n38	30	20	516000	1@49	CP_64QAM	19.73
n38	30	20	516000	51@0	CP_256QAM	16.26
n38	30	20	516000	25@12	CP_256QAM	16.97
n38	30	20	516000	1@1	CP_256QAM	16.59
n38	30	20	516000	1@49	CP_256QAM	17.1
n38	30	20	519000	50@0	DFT_BPSK	23.54
n38	30	20	519000	25@12	DFT_BPSK	23.52
n38	30	20	519000	1@1	DFT_BPSK	23.37
n38	30	20	519000	1@49	DFT_BPSK	23.34
n38	30	20	519000	50@0	DFT_QPSK	23.55
n38	30	20	519000	25@12	DFT_QPSK	23.58
n38	30	20	519000	1@1	DFT_QPSK	23.44
n38	30	20	519000	1@49	DFT_QPSK	23.34
n38	30	20	519000	50@0	DFT_16QAM	22.01
n38	30	20	519000	25@12	DFT_16QAM	23.07
n38	30	20	519000	1@1	DFT_16QAM	23.04
n38	30	20	519000	1@49	DFT_16QAM	22.97
n38	30	20	519000	50@0	DFT_64QAM	21.01
n38	30	20	519000	25@12	DFT_64QAM	20.99
n38	30	20	519000	1@1	DFT_64QAM	20.81
n38	30	20	519000	1@49	DFT_64QAM	20.73
n38	30	20	519000	50@0	DFT_256QAM	18.31
n38	30	20	519000	25@12	DFT_256QAM	18.98
n38	30	20	519000	1@1	DFT_256QAM	19.08
n38	30	20	519000	1@49	DFT_256QAM	18.95
n38	30	20	519000	51@0	CP_QPSK	20.55



n38	30	20	519000	25@12	CP_QPSK	23.05
n38	30	20	519000	1@1	CP_QPSK	23.12
n38	30	20	519000	1@49	CP_QPSK	23.03
n38	30	20	519000	51@0	CP_16QAM	20.5
n38	30	20	519000	25@12	CP_16QAM	21.56
n38	30	20	519000	1@1	CP_16QAM	21.45
n38	30	20	519000	1@49	CP_16QAM	21.22
n38	30	20	519000	51@0	CP_64QAM	20.01
n38	30	20	519000	25@12	CP_64QAM	19.95
n38	30	20	519000	1@1	CP_64QAM	19.76
n38	30	20	519000	1@49	CP_64QAM	19.65
n38	30	20	519000	51@0	CP_256QAM	16.18
n38	30	20	519000	25@12	CP_256QAM	16.95
n38	30	20	519000	1@1	CP_256QAM	17.16
n38	30	20	519000	1@49	CP_256QAM	17.07
n38	30	20	522000	50@0	DFT_BPSK	23.45
n38	30	20	522000	25@12	DFT_BPSK	23.47
n38	30	20	522000	1@1	DFT_BPSK	23.23
n38	30	20	522000	1@49	DFT_BPSK	23.32
n38	30	20	522000	50@0	DFT_QPSK	23.49
n38	30	20	522000	25@12	DFT_QPSK	23.55
n38	30	20	522000	1@1	DFT_QPSK	23.31
n38	30	20	522000	1@49	DFT_QPSK	23.38
n38	30	20	522000	50@0	DFT_16QAM	21.94
n38	30	20	522000	25@12	DFT_16QAM	23
n38	30	20	522000	1@1	DFT_16QAM	22.98
n38	30	20	522000	1@49	DFT_16QAM	23.06
n38	30	20	522000	50@0	DFT_64QAM	20.9
n38	30	20	522000	25@12	DFT_64QAM	20.94
n38	30	20	522000	1@1	DFT_64QAM	20.68
n38	30	20	522000	1@49	DFT_64QAM	20.73
n38	30	20	522000	50@0	DFT_256QAM	18.86
n38	30	20	522000	25@12	DFT_256QAM	18.46
n38	30	20	522000	1@1	DFT_256QAM	18.91
n38	30	20	522000	1@49	DFT_256QAM	18.54
n38	30	20	522000	51@0	CP_QPSK	20.47
n38	30	20	522000	25@12	CP_QPSK	23.02
n38	30	20	522000	1@1	CP_QPSK	23.3
n38	30	20	522000	1@49	CP_QPSK	23.4
n38	30	20	522000	51@0	CP_16QAM	20.41
n38	30	20	522000	25@12	CP_16QAM	21.55
n38	30	20	522000	1@1	CP_16QAM	21.14
n38	30	20	522000	1@49	CP_16QAM	21.21
n38	30	20	522000	51@0	CP_64QAM	19.93
n38	30	20	522000	25@12	CP_64QAM	19.92
n38	30	20	522000	1@1	CP_64QAM	19.61
n38	30	20	522000	1@49	CP_64QAM	19.63
n38	30	20	522000	51@0	CP_256QAM	16.71
n38	30	20	522000	25@12	CP_256QAM	16.92
n38	30	20	522000	1@1	CP_256QAM	16.94
n38	30	20	522000	1@49	CP_256QAM	16.41



n38	30	40	518000	100@0	DFT_BPSK	23.84
n38	30	40	518000	50@25	DFT_BPSK	24.02
n38	30	40	518000	1@1	DFT_BPSK	23.41
n38	30	40	518000	1@104	DFT_BPSK	23.39
n38	30	40	518000	100@0	DFT_QPSK	23.87
n38	30	40	518000	50@25	DFT_QPSK	24.05
n38	30	40	518000	1@1	DFT_QPSK	23.42
n38	30	40	518000	1@104	DFT_QPSK	23.43
n38	30	40	518000	100@0	DFT_16QAM	22.37
n38	30	40	518000	50@25	DFT_16QAM	23.53
n38	30	40	518000	1@1	DFT_16QAM	23.03
n38	30	40	518000	1@104	DFT_16QAM	23.01
n38	30	40	518000	100@0	DFT_64QAM	21.32
n38	30	40	518000	50@25	DFT_64QAM	21.47
n38	30	40	518000	1@1	DFT_64QAM	20.91
n38	30	40	518000	1@104	DFT_64QAM	20.83
n38	30	40	518000	100@0	DFT_256QAM	19.3
n38	30	40	518000	50@25	DFT_256QAM	19.44
n38	30	40	518000	1@1	DFT_256QAM	19.1
n38	30	40	518000	1@104	DFT_256QAM	19.1
n38	30	40	518000	106@0	CP_QPSK	21.63
n38	30	40	518000	53@26	CP_QPSK	23.52
n38	30	40	518000	1@1	CP_QPSK	23.32
n38	30	40	518000	1@104	CP_QPSK	23.42
n38	30	40	518000	106@0	CP_16QAM	20.83
n38	30	40	518000	53@26	CP_16QAM	21.98
n38	30	40	518000	1@1	CP_16QAM	21.4
n38	30	40	518000	1@104	CP_16QAM	21.4
n38	30	40	518000	106@0	CP_64QAM	20.29
n38	30	40	518000	53@26	CP_64QAM	20.46
n38	30	40	518000	1@1	CP_64QAM	19.78
n38	30	40	518000	1@104	CP_64QAM	19.76
n38	30	40	518000	106@0	CP_256QAM	17.26
n38	30	40	518000	53@26	CP_256QAM	17.36
n38	30	40	518000	1@1	CP_256QAM	17.21
n38	30	40	518000	1@104	CP_256QAM	17.18
n38	30	40	519000	100@0	DFT_BPSK	23.89
n38	30	40	519000	50@25	DFT_BPSK	24.03
n38	30	40	519000	1@1	DFT_BPSK	23.43
n38	30	40	519000	1@104	DFT_BPSK	23.38
n38	30	40	519000	100@0	DFT_QPSK	23.89
n38	30	40	519000	50@25	DFT_QPSK	24.03
n38	30	40	519000	1@1	DFT_QPSK	23.62
n38	30	40	519000	1@104	DFT_QPSK	23.63
n38	30	40	519000	100@0	DFT_16QAM	22.38
n38	30	40	519000	50@25	DFT_16QAM	23.55
n38	30	40	519000	1@1	DFT_16QAM	23.04
n38	30	40	519000	1@104	DFT_16QAM	23
n38	30	40	519000	100@0	DFT_64QAM	21.35
n38	30	40	519000	50@25	DFT_64QAM	21.5
n38	30	40	519000	1@1	DFT_64QAM	20.89
n38	30	40	519000	1@104	DFT_64QAM	20.82
n38	30	40	519000	100@0	DFT_256QAM	19.01
n38	30	40	519000	50@25	DFT_256QAM	19.46
n38	30	40	519000	1@1	DFT_256QAM	18.62
n38	30	40	519000	1@104	DFT_256QAM	19.07
n38	30	40	519000	106@0	CP_QPSK	20.8



n38	30	40	519000	53@26	CP_QPSK	23.5
n38	30	40	519000	1@1	CP_QPSK	23.26
n38	30	40	519000	1@104	CP_QPSK	23.3
n38	30	40	519000	106@0	CP_16QAM	20.86
n38	30	40	519000	53@26	CP_16QAM	21.97
n38	30	40	519000	1@1	CP_16QAM	21.56
n38	30	40	519000	1@104	CP_16QAM	21.56
n38	30	40	519000	106@0	CP_64QAM	20.31
n38	30	40	519000	53@26	CP_64QAM	20.44
n38	30	40	519000	1@1	CP_64QAM	19.8
n38	30	40	519000	1@104	CP_64QAM	19.75
n38	30	40	519000	106@0	CP_256QAM	17.3
n38	30	40	519000	53@26	CP_256QAM	17.39
n38	30	40	519000	1@1	CP_256QAM	17.21
n38	30	40	519000	1@104	CP_256QAM	17.15
n38	30	40	520000	100@0	DFT_BPSK	23.86
n38	30	40	520000	50@25	DFT_BPSK	24.02
n38	30	40	520000	1@1	DFT_BPSK	23.44
n38	30	40	520000	1@104	DFT_BPSK	23.43
n38	30	40	520000	100@0	DFT_QPSK	23.89
n38	30	40	520000	50@25	DFT_QPSK	24.06
n38	30	40	520000	1@1	DFT_QPSK	23.47
n38	30	40	520000	1@104	DFT_QPSK	23.45
n38	30	40	520000	100@0	DFT_16QAM	22.38
n38	30	40	520000	50@25	DFT_16QAM	23.56
n38	30	40	520000	1@1	DFT_16QAM	23.03
n38	30	40	520000	1@104	DFT_16QAM	23.02
n38	30	40	520000	100@0	DFT_64QAM	21.31
n38	30	40	520000	50@25	DFT_64QAM	21.51
n38	30	40	520000	1@1	DFT_64QAM	21.02
n38	30	40	520000	1@104	DFT_64QAM	21.01
n38	30	40	520000	100@0	DFT_256QAM	19.29
n38	30	40	520000	50@25	DFT_256QAM	18.92
n38	30	40	520000	1@1	DFT_256QAM	19.13
n38	30	40	520000	1@104	DFT_256QAM	18.76
n38	30	40	520000	106@0	CP_QPSK	20.79
n38	30	40	520000	53@26	CP_QPSK	23.52
n38	30	40	520000	1@1	CP_QPSK	23.36
n38	30	40	520000	1@104	CP_QPSK	23.37
n38	30	40	520000	106@0	CP_16QAM	20.83
n38	30	40	520000	53@26	CP_16QAM	21.95
n38	30	40	520000	1@1	CP_16QAM	21.41
n38	30	40	520000	1@104	CP_16QAM	21.41
n38	30	40	520000	106@0	CP_64QAM	20.3
n38	30	40	520000	53@26	CP_64QAM	20.44
n38	30	40	520000	1@1	CP_64QAM	19.8
n38	30	40	520000	1@104	CP_64QAM	19.81
n38	30	40	520000	106@0	CP_256QAM	17.29
n38	30	40	520000	53@26	CP_256QAM	17.38
n38	30	40	520000	1@1	CP_256QAM	17.23
n38	30	40	520000	1@104	CP_256QAM	17.17



n41	30	15	500700	36@0	DFT_BPSK	23.03
n41	30	15	500700	18@9	DFT_BPSK	23.05
n41	30	15	500700	1@1	DFT_BPSK	22.93
n41	30	15	500700	1@36	DFT_BPSK	22.86
n41	30	15	500700	36@0	DFT_QPSK	23.05
n41	30	15	500700	18@9	DFT_QPSK	23.09
n41	30	15	500700	1@1	DFT_QPSK	22.99
n41	30	15	500700	1@36	DFT_QPSK	22.92
n41	30	15	500700	36@0	DFT_16QAM	21.57
n41	30	15	500700	18@9	DFT_16QAM	22.63
n41	30	15	500700	1@1	DFT_16QAM	22.51
n41	30	15	500700	1@36	DFT_16QAM	22.43
n41	30	15	500700	36@0	DFT_64QAM	20.55
n41	30	15	500700	18@9	DFT_64QAM	20.59
n41	30	15	500700	1@1	DFT_64QAM	20.5
n41	30	15	500700	1@36	DFT_64QAM	20.42
n41	30	15	500700	36@0	DFT_256QAM	18.48
n41	30	15	500700	18@9	DFT_256QAM	18.58
n41	30	15	500700	1@1	DFT_256QAM	18.59
n41	30	15	500700	1@36	DFT_256QAM	18.48
n41	30	15	500700	38@0	CP_QPSK	20.06
n41	30	15	500700	19@9	CP_QPSK	22.54
n41	30	15	500700	1@1	CP_QPSK	22.82
n41	30	15	500700	1@36	CP_QPSK	22.69
n41	30	15	500700	38@0	CP_16QAM	20.09
n41	30	15	500700	19@9	CP_16QAM	21.04
n41	30	15	500700	1@1	CP_16QAM	21.03
n41	30	15	500700	1@36	CP_16QAM	20.95
n41	30	15	500700	38@0	CP_64QAM	19.5
n41	30	15	500700	19@9	CP_64QAM	19.49
n41	30	15	500700	1@1	CP_64QAM	19.24
n41	30	15	500700	1@36	CP_64QAM	19.18
n41	30	15	500700	38@0	CP_256QAM	16.53
n41	30	15	500700	19@9	CP_256QAM	16.54
n41	30	15	500700	1@1	CP_256QAM	16.61
n41	30	15	500700	1@36	CP_256QAM	16.53
n41	30	15	518598	36@0	DFT_BPSK	23.06
n41	30	15	518598	18@9	DFT_BPSK	23.06
n41	30	15	518598	1@1	DFT_BPSK	22.97
n41	30	15	518598	1@36	DFT_BPSK	22.9
n41	30	15	518598	36@0	DFT_QPSK	23.08
n41	30	15	518598	18@9	DFT_QPSK	23.1
n41	30	15	518598	1@1	DFT_QPSK	23.02
n41	30	15	518598	1@36	DFT_QPSK	22.93
n41	30	15	518598	36@0	DFT_16QAM	21.6
n41	30	15	518598	18@9	DFT_16QAM	22.65
n41	30	15	518598	1@1	DFT_16QAM	22.63
n41	30	15	518598	1@36	DFT_16QAM	22.55
n41	30	15	518598	36@0	DFT_64QAM	20.56
n41	30	15	518598	18@9	DFT_64QAM	20.56
n41	30	15	518598	1@1	DFT_64QAM	20.5
n41	30	15	518598	1@36	DFT_64QAM	20.42
n41	30	15	518598	36@0	DFT_256QAM	18.47
n41	30	15	518598	18@9	DFT_256QAM	18.57
n41	30	15	518598	1@1	DFT_256QAM	18.65
n41	30	15	518598	1@36	DFT_256QAM	18.51
n41	30	15	518598	38@0	CP_QPSK	20.1



n41	30	15	518598	19@9	CP_QPSK	22.55
n41	30	15	518598	1@1	CP_QPSK	22.73
n41	30	15	518598	1@36	CP_QPSK	22.57
n41	30	15	518598	38@0	CP_16QAM	20.12
n41	30	15	518598	19@9	CP_16QAM	21.08
n41	30	15	518598	1@1	CP_16QAM	21.1
n41	30	15	518598	1@36	CP_16QAM	21.02
n41	30	15	518598	38@0	CP_64QAM	19.56
n41	30	15	518598	19@9	CP_64QAM	19.52
n41	30	15	518598	1@1	CP_64QAM	19.35
n41	30	15	518598	1@36	CP_64QAM	19.25
n41	30	15	518598	38@0	CP_256QAM	16.56
n41	30	15	518598	19@9	CP_256QAM	16.54
n41	30	15	518598	1@1	CP_256QAM	16.53
n41	30	15	518598	1@36	CP_256QAM	16.59
n41	30	15	536496	36@0	DFT_BPSK	22.85
n41	30	15	536496	18@9	DFT_BPSK	22.84
n41	30	15	536496	1@1	DFT_BPSK	22.65
n41	30	15	536496	1@36	DFT_BPSK	22.85
n41	30	15	536496	36@0	DFT_QPSK	22.88
n41	30	15	536496	18@9	DFT_QPSK	22.87
n41	30	15	536496	1@1	DFT_QPSK	22.69
n41	30	15	536496	1@36	DFT_QPSK	22.83
n41	30	15	536496	36@0	DFT_16QAM	21.36
n41	30	15	536496	18@9	DFT_16QAM	22.42
n41	30	15	536496	1@1	DFT_16QAM	22.34
n41	30	15	536496	1@36	DFT_16QAM	22.52
n41	30	15	536496	36@0	DFT_64QAM	20.35
n41	30	15	536496	18@9	DFT_64QAM	20.33
n41	30	15	536496	1@1	DFT_64QAM	20.07
n41	30	15	536496	1@36	DFT_64QAM	20.24
n41	30	15	536496	36@0	DFT_256QAM	18.26
n41	30	15	536496	18@9	DFT_256QAM	18.42
n41	30	15	536496	1@1	DFT_256QAM	18.33
n41	30	15	536496	1@36	DFT_256QAM	18.45
n41	30	15	536496	38@0	CP_QPSK	20.39
n41	30	15	536496	19@9	CP_QPSK	22.35
n41	30	15	536496	1@1	CP_QPSK	22.14
n41	30	15	536496	1@36	CP_QPSK	22.34
n41	30	15	536496	38@0	CP_16QAM	19.87
n41	30	15	536496	19@9	CP_16QAM	20.82
n41	30	15	536496	1@1	CP_16QAM	20.73
n41	30	15	536496	1@36	CP_16QAM	20.92
n41	30	15	536496	38@0	CP_64QAM	19.34
n41	30	15	536496	19@9	CP_64QAM	19.37
n41	30	15	536496	1@1	CP_64QAM	19.2
n41	30	15	536496	1@36	CP_64QAM	19.35
n41	30	15	536496	38@0	CP_256QAM	16.36
n41	30	15	536496	19@9	CP_256QAM	16.3
n41	30	15	536496	1@1	CP_256QAM	16.41
n41	30	15	536496	1@36	CP_256QAM	16.49



n41	30	20	501204	50@0	DFT_BPSK	23.03
n41	30	20	501204	25@12	DFT_BPSK	23.03
n41	30	20	501204	1@1	DFT_BPSK	22.81
n41	30	20	501204	1@49	DFT_BPSK	22.8
n41	30	20	501204	50@0	DFT_QPSK	23
n41	30	20	501204	25@12	DFT_QPSK	23.1
n41	30	20	501204	1@1	DFT_QPSK	22.92
n41	30	20	501204	1@49	DFT_QPSK	22.82
n41	30	20	501204	50@0	DFT_16QAM	21.47
n41	30	20	501204	25@12	DFT_16QAM	22.55
n41	30	20	501204	1@1	DFT_16QAM	22.43
n41	30	20	501204	1@49	DFT_16QAM	22.37
n41	30	20	501204	50@0	DFT_64QAM	20.44
n41	30	20	501204	25@12	DFT_64QAM	20.51
n41	30	20	501204	1@1	DFT_64QAM	20.4
n41	30	20	501204	1@49	DFT_64QAM	20.36
n41	30	20	501204	50@0	DFT_256QAM	18.41
n41	30	20	501204	25@12	DFT_256QAM	18.48
n41	30	20	501204	1@1	DFT_256QAM	18.54
n41	30	20	501204	1@49	DFT_256QAM	18.46
n41	30	20	501204	51@0	CP_QPSK	19.99
n41	30	20	501204	25@12	CP_QPSK	22.51
n41	30	20	501204	1@1	CP_QPSK	22.54
n41	30	20	501204	1@49	CP_QPSK	22.44
n41	30	20	501204	51@0	CP_16QAM	19.98
n41	30	20	501204	25@12	CP_16QAM	21.07
n41	30	20	501204	1@1	CP_16QAM	20.92
n41	30	20	501204	1@49	CP_16QAM	20.85
n41	30	20	501204	51@0	CP_64QAM	19.47
n41	30	20	501204	25@12	CP_64QAM	19.46
n41	30	20	501204	1@1	CP_64QAM	19.21
n41	30	20	501204	1@49	CP_64QAM	19.12
n41	30	20	501204	51@0	CP_256QAM	16.37
n41	30	20	501204	25@12	CP_256QAM	16.43
n41	30	20	501204	1@1	CP_256QAM	16.56
n41	30	20	501204	1@49	CP_256QAM	16.46
n41	30	20	518598	50@0	DFT_BPSK	23.07
n41	30	20	518598	25@12	DFT_BPSK	23.05
n41	30	20	518598	1@1	DFT_BPSK	22.85
n41	30	20	518598	1@49	DFT_BPSK	22.83
n41	30	20	518598	50@0	DFT_QPSK	23.06
n41	30	20	518598	25@12	DFT_QPSK	23.13
n41	30	20	518598	1@1	DFT_QPSK	22.91
n41	30	20	518598	1@49	DFT_QPSK	22.86
n41	30	20	518598	50@0	DFT_16QAM	21.52
n41	30	20	518598	25@12	DFT_16QAM	22.62
n41	30	20	518598	1@1	DFT_16QAM	22.48
n41	30	20	518598	1@49	DFT_16QAM	22.45
n41	30	20	518598	50@0	DFT_64QAM	20.5
n41	30	20	518598	25@12	DFT_64QAM	20.56
n41	30	20	518598	1@1	DFT_64QAM	20.42
n41	30	20	518598	1@49	DFT_64QAM	20.37
n41	30	20	518598	50@0	DFT_256QAM	18.47
n41	30	20	518598	25@12	DFT_256QAM	18.56
n41	30	20	518598	1@1	DFT_256QAM	18.53
n41	30	20	518598	1@49	DFT_256QAM	18.49
n41	30	20	518598	51@0	CP_QPSK	20.06



n41	30	20	518598	25@12	CP_QPSK	22.61
n41	30	20	518598	1@1	CP_QPSK	22.61
n41	30	20	518598	1@49	CP_QPSK	22.52
n41	30	20	518598	51@0	CP_16QAM	20.01
n41	30	20	518598	25@12	CP_16QAM	21.13
n41	30	20	518598	1@1	CP_16QAM	21.02
n41	30	20	518598	1@49	CP_16QAM	20.93
n41	30	20	518598	51@0	CP_64QAM	19.53
n41	30	20	518598	25@12	CP_64QAM	19.54
n41	30	20	518598	1@1	CP_64QAM	19.26
n41	30	20	518598	1@49	CP_64QAM	19.16
n41	30	20	518598	51@0	CP_256QAM	16.42
n41	30	20	518598	25@12	CP_256QAM	16.49
n41	30	20	518598	1@1	CP_256QAM	16.6
n41	30	20	518598	1@49	CP_256QAM	16.5
n41	30	20	535998	50@0	DFT_BPSK	22.92
n41	30	20	535998	25@12	DFT_BPSK	22.87
n41	30	20	535998	1@1	DFT_BPSK	22.67
n41	30	20	535998	1@49	DFT_BPSK	22.79
n41	30	20	535998	50@0	DFT_QPSK	22.94
n41	30	20	535998	25@12	DFT_QPSK	22.95
n41	30	20	535998	1@1	DFT_QPSK	22.7
n41	30	20	535998	1@49	DFT_QPSK	22.84
n41	30	20	535998	50@0	DFT_16QAM	21.36
n41	30	20	535998	25@12	DFT_16QAM	22.41
n41	30	20	535998	1@1	DFT_16QAM	22.26
n41	30	20	535998	1@49	DFT_16QAM	22.39
n41	30	20	535998	50@0	DFT_64QAM	20.33
n41	30	20	535998	25@12	DFT_64QAM	20.37
n41	30	20	535998	1@1	DFT_64QAM	20.21
n41	30	20	535998	1@49	DFT_64QAM	20.35
n41	30	20	535998	50@0	DFT_256QAM	18.32
n41	30	20	535998	25@12	DFT_256QAM	18.37
n41	30	20	535998	1@1	DFT_256QAM	18.34
n41	30	20	535998	1@49	DFT_256QAM	18.45
n41	30	20	535998	51@0	CP_QPSK	19.9
n41	30	20	535998	25@12	CP_QPSK	22.41
n41	30	20	535998	1@1	CP_QPSK	22.31
n41	30	20	535998	1@49	CP_QPSK	22.48
n41	30	20	535998	51@0	CP_16QAM	19.81
n41	30	20	535998	25@12	CP_16QAM	20.95
n41	30	20	535998	1@1	CP_16QAM	20.75
n41	30	20	535998	1@49	CP_16QAM	20.9
n41	30	20	535998	51@0	CP_64QAM	19.36
n41	30	20	535998	25@12	CP_64QAM	19.35
n41	30	20	535998	1@1	CP_64QAM	19
n41	30	20	535998	1@49	CP_64QAM	19.13
n41	30	20	535998	51@0	CP_256QAM	16.29
n41	30	20	535998	25@12	CP_256QAM	16.31
n41	30	20	535998	1@1	CP_256QAM	16.35
n41	30	20	535998	1@49	CP_256QAM	16.48



n41	30	30	502200	75@0	DFT_BPSK	22.97
n41	30	30	502200	36@18	DFT_BPSK	23.05
n41	30	30	502200	1@1	DFT_BPSK	22.76
n41	30	30	502200	1@76	DFT_BPSK	22.64
n41	30	30	502200	75@0	DFT_QPSK	23.03
n41	30	30	502200	36@18	DFT_QPSK	23.06
n41	30	30	502200	1@1	DFT_QPSK	22.8
n41	30	30	502200	1@76	DFT_QPSK	22.65
n41	30	30	502200	75@0	DFT_16QAM	21.51
n41	30	30	502200	36@18	DFT_16QAM	22.59
n41	30	30	502200	1@1	DFT_16QAM	22.4
n41	30	30	502200	1@76	DFT_16QAM	22.28
n41	30	30	502200	75@0	DFT_64QAM	20.47
n41	30	30	502200	36@18	DFT_64QAM	20.58
n41	30	30	502200	1@1	DFT_64QAM	20.33
n41	30	30	502200	1@76	DFT_64QAM	20.17
n41	30	30	502200	75@0	DFT_256QAM	18.39
n41	30	30	502200	36@18	DFT_256QAM	18.51
n41	30	30	502200	1@1	DFT_256QAM	18.46
n41	30	30	502200	1@76	DFT_256QAM	18.28
n41	30	30	502200	78@0	CP_QPSK	19.92
n41	30	30	502200	39@19	CP_QPSK	22.55
n41	30	30	502200	1@1	CP_QPSK	22.58
n41	30	30	502200	1@76	CP_QPSK	22.46
n41	30	30	502200	78@0	CP_16QAM	19.95
n41	30	30	502200	39@19	CP_16QAM	21
n41	30	30	502200	1@1	CP_16QAM	20.88
n41	30	30	502200	1@76	CP_16QAM	20.75
n41	30	30	502200	78@0	CP_64QAM	19.45
n41	30	30	502200	39@19	CP_64QAM	19.51
n41	30	30	502200	1@1	CP_64QAM	19.09
n41	30	30	502200	1@76	CP_64QAM	18.98
n41	30	30	502200	78@0	CP_256QAM	16.4
n41	30	30	502200	39@19	CP_256QAM	16.44
n41	30	30	502200	1@1	CP_256QAM	16.54
n41	30	30	502200	1@76	CP_256QAM	16.42
n41	30	30	518598	75@0	DFT_BPSK	23.03
n41	30	30	518598	36@18	DFT_BPSK	23.04
n41	30	30	518598	1@1	DFT_BPSK	22.71
n41	30	30	518598	1@76	DFT_BPSK	22.67
n41	30	30	518598	75@0	DFT_QPSK	23.02
n41	30	30	518598	36@18	DFT_QPSK	23.05
n41	30	30	518598	1@1	DFT_QPSK	22.9
n41	30	30	518598	1@76	DFT_QPSK	22.9
n41	30	30	518598	75@0	DFT_16QAM	21.5
n41	30	30	518598	36@18	DFT_16QAM	22.58
n41	30	30	518598	1@1	DFT_16QAM	22.37
n41	30	30	518598	1@76	DFT_16QAM	22.36
n41	30	30	518598	75@0	DFT_64QAM	20.49
n41	30	30	518598	36@18	DFT_64QAM	20.54
n41	30	30	518598	1@1	DFT_64QAM	20.25
n41	30	30	518598	1@76	DFT_64QAM	20.2
n41	30	30	518598	75@0	DFT_256QAM	18.44
n41	30	30	518598	36@18	DFT_256QAM	18.49
n41	30	30	518598	1@1	DFT_256QAM	18.46
n41	30	30	518598	1@76	DFT_256QAM	18.41
n41	30	30	518598	78@0	CP_QPSK	19.96



n41	30	30	518598	39@19	CP_QPSK	22.56
n41	30	30	518598	1@1	CP_QPSK	22.24
n41	30	30	518598	1@76	CP_QPSK	22.09
n41	30	30	518598	78@0	CP_16QAM	19.94
n41	30	30	518598	39@19	CP_16QAM	20.99
n41	30	30	518598	1@1	CP_16QAM	20.84
n41	30	30	518598	1@76	CP_16QAM	20.74
n41	30	30	518598	78@0	CP_64QAM	19.45
n41	30	30	518598	39@19	CP_64QAM	19.52
n41	30	30	518598	1@1	CP_64QAM	19.08
n41	30	30	518598	1@76	CP_64QAM	18.99
n41	30	30	518598	78@0	CP_256QAM	16.4
n41	30	30	518598	39@19	CP_256QAM	16.45
n41	30	30	518598	1@1	CP_256QAM	16.47
n41	30	30	518598	1@76	CP_256QAM	16.41
n41	30	30	534996	75@0	DFT_BPSK	22.86
n41	30	30	534996	36@18	DFT_BPSK	22.91
n41	30	30	534996	1@1	DFT_BPSK	22.6
n41	30	30	534996	1@76	DFT_BPSK	22.63
n41	30	30	534996	75@0	DFT_QPSK	22.87
n41	30	30	534996	36@18	DFT_QPSK	22.93
n41	30	30	534996	1@1	DFT_QPSK	22.62
n41	30	30	534996	1@76	DFT_QPSK	22.67
n41	30	30	534996	75@0	DFT_16QAM	21.36
n41	30	30	534996	36@18	DFT_16QAM	22.45
n41	30	30	534996	1@1	DFT_16QAM	22.26
n41	30	30	534996	1@76	DFT_16QAM	22.25
n41	30	30	534996	75@0	DFT_64QAM	20.34
n41	30	30	534996	36@18	DFT_64QAM	20.42
n41	30	30	534996	1@1	DFT_64QAM	20.15
n41	30	30	534996	1@76	DFT_64QAM	20.17
n41	30	30	534996	75@0	DFT_256QAM	18.28
n41	30	30	534996	36@18	DFT_256QAM	18.34
n41	30	30	534996	1@1	DFT_256QAM	18.29
n41	30	30	534996	1@76	DFT_256QAM	18.28
n41	30	30	534996	78@0	CP_QPSK	19.79
n41	30	30	534996	39@19	CP_QPSK	22.41
n41	30	30	534996	1@1	CP_QPSK	22.4
n41	30	30	534996	1@76	CP_QPSK	22.43
n41	30	30	534996	78@0	CP_16QAM	19.79
n41	30	30	534996	39@19	CP_16QAM	20.84
n41	30	30	534996	1@1	CP_16QAM	20.71
n41	30	30	534996	1@76	CP_16QAM	20.78
n41	30	30	534996	78@0	CP_64QAM	19.3
n41	30	30	534996	39@19	CP_64QAM	19.36
n41	30	30	534996	1@1	CP_64QAM	18.97
n41	30	30	534996	1@76	CP_64QAM	18.99
n41	30	30	534996	78@0	CP_256QAM	16.25
n41	30	30	534996	39@19	CP_256QAM	16.29
n41	30	30	534996	1@1	CP_256QAM	16.29
n41	30	30	534996	1@76	CP_256QAM	16.37



n41	30	40	503202	100@0	DFT_BPSK	22.85
n41	30	40	503202	50@25	DFT_BPSK	23.02
n41	30	40	503202	1@1	DFT_BPSK	22.54
n41	30	40	503202	1@104	DFT_BPSK	22.39
n41	30	40	503202	100@0	DFT_QPSK	22.87
n41	30	40	503202	50@25	DFT_QPSK	23.05
n41	30	40	503202	1@1	DFT_QPSK	22.59
n41	30	40	503202	1@104	DFT_QPSK	22.43
n41	30	40	503202	100@0	DFT_16QAM	21.38
n41	30	40	503202	50@25	DFT_16QAM	22.53
n41	30	40	503202	1@1	DFT_16QAM	22.18
n41	30	40	503202	1@104	DFT_16QAM	22.01
n41	30	40	503202	100@0	DFT_64QAM	20.31
n41	30	40	503202	50@25	DFT_64QAM	20.48
n41	30	40	503202	1@1	DFT_64QAM	20.12
n41	30	40	503202	1@104	DFT_64QAM	19.99
n41	30	40	503202	100@0	DFT_256QAM	18.32
n41	30	40	503202	50@25	DFT_256QAM	18.45
n41	30	40	503202	1@1	DFT_256QAM	18.23
n41	30	40	503202	1@104	DFT_256QAM	18.11
n41	30	40	503202	106@0	CP_QPSK	19.8
n41	30	40	503202	53@26	CP_QPSK	22.51
n41	30	40	503202	1@1	CP_QPSK	22.26
n41	30	40	503202	1@104	CP_QPSK	22.08
n41	30	40	503202	106@0	CP_16QAM	19.84
n41	30	40	503202	53@26	CP_16QAM	20.95
n41	30	40	503202	1@1	CP_16QAM	20.7
n41	30	40	503202	1@104	CP_16QAM	20.56
n41	30	40	503202	106@0	CP_64QAM	19.3
n41	30	40	503202	53@26	CP_64QAM	19.45
n41	30	40	503202	1@1	CP_64QAM	18.95
n41	30	40	503202	1@104	CP_64QAM	18.79
n41	30	40	503202	106@0	CP_256QAM	16.26
n41	30	40	503202	53@26	CP_256QAM	16.38
n41	30	40	503202	1@1	CP_256QAM	16.35
n41	30	40	503202	1@104	CP_256QAM	16.18
n41	30	40	518598	100@0	DFT_BPSK	22.93
n41	30	40	518598	50@25	DFT_BPSK	23.08
n41	30	40	518598	1@1	DFT_BPSK	22.5
n41	30	40	518598	1@104	DFT_BPSK	22.45
n41	30	40	518598	100@0	DFT_QPSK	22.92
n41	30	40	518598	50@25	DFT_QPSK	23.09
n41	30	40	518598	1@1	DFT_QPSK	22.49
n41	30	40	518598	1@104	DFT_QPSK	22.45
n41	30	40	518598	100@0	DFT_16QAM	21.45
n41	30	40	518598	50@25	DFT_16QAM	22.59
n41	30	40	518598	1@1	DFT_16QAM	22.13
n41	30	40	518598	1@104	DFT_16QAM	22.09
n41	30	40	518598	100@0	DFT_64QAM	20.41
n41	30	40	518598	50@25	DFT_64QAM	20.53
n41	30	40	518598	1@1	DFT_64QAM	20.04
n41	30	40	518598	1@104	DFT_64QAM	20
n41	30	40	518598	100@0	DFT_256QAM	18.39
n41	30	40	518598	50@25	DFT_256QAM	18.51
n41	30	40	518598	1@1	DFT_256QAM	18.17
n41	30	40	518598	1@104	DFT_256QAM	18.15
n41	30	40	518598	106@0	CP_QPSK	19.85



n41	30	40	518598	53@26	CP_QPSK	22.56
n41	30	40	518598	1@1	CP_QPSK	22.3
n41	30	40	518598	1@104	CP_QPSK	22.28
n41	30	40	518598	106@0	CP_16QAM	19.89
n41	30	40	518598	53@26	CP_16QAM	21.01
n41	30	40	518598	1@1	CP_16QAM	20.62
n41	30	40	518598	1@104	CP_16QAM	20.58
n41	30	40	518598	106@0	CP_64QAM	19.38
n41	30	40	518598	53@26	CP_64QAM	19.51
n41	30	40	518598	1@1	CP_64QAM	18.88
n41	30	40	518598	1@104	CP_64QAM	18.81
n41	30	40	518598	106@0	CP_256QAM	16.34
n41	30	40	518598	53@26	CP_256QAM	16.45
n41	30	40	518598	1@1	CP_256QAM	16.29
n41	30	40	518598	1@104	CP_256QAM	16.22
n41	30	40	534000	100@0	DFT_BPSK	22.8
n41	30	40	534000	50@25	DFT_BPSK	22.96
n41	30	40	534000	1@1	DFT_BPSK	22.36
n41	30	40	534000	1@104	DFT_BPSK	22.45
n41	30	40	534000	100@0	DFT_QPSK	22.79
n41	30	40	534000	50@25	DFT_QPSK	23
n41	30	40	534000	1@1	DFT_QPSK	22.39
n41	30	40	534000	1@104	DFT_QPSK	22.46
n41	30	40	534000	100@0	DFT_16QAM	21.31
n41	30	40	534000	50@25	DFT_16QAM	22.45
n41	30	40	534000	1@1	DFT_16QAM	22.02
n41	30	40	534000	1@104	DFT_16QAM	22.09
n41	30	40	534000	100@0	DFT_64QAM	20.28
n41	30	40	534000	50@25	DFT_64QAM	20.42
n41	30	40	534000	1@1	DFT_64QAM	19.91
n41	30	40	534000	1@104	DFT_64QAM	19.99
n41	30	40	534000	100@0	DFT_256QAM	18.26
n41	30	40	534000	50@25	DFT_256QAM	18.38
n41	30	40	534000	1@1	DFT_256QAM	18.05
n41	30	40	534000	1@104	DFT_256QAM	18.13
n41	30	40	534000	106@0	CP_QPSK	19.76
n41	30	40	534000	53@26	CP_QPSK	22.41
n41	30	40	534000	1@1	CP_QPSK	22.13
n41	30	40	534000	1@104	CP_QPSK	22.21
n41	30	40	534000	106@0	CP_16QAM	19.76
n41	30	40	534000	53@26	CP_16QAM	20.86
n41	30	40	534000	1@1	CP_16QAM	20.5
n41	30	40	534000	1@104	CP_16QAM	20.6
n41	30	40	534000	106@0	CP_64QAM	19.25
n41	30	40	534000	53@26	CP_64QAM	19.36
n41	30	40	534000	1@1	CP_64QAM	18.73
n41	30	40	534000	1@104	CP_64QAM	18.97
n41	30	40	534000	106@0	CP_256QAM	16.2
n41	30	40	534000	53@26	CP_256QAM	16.29
n41	30	40	534000	1@1	CP_256QAM	16.14
n41	30	40	534000	1@104	CP_256QAM	16.27



n41	30	50	504204	128@0	DFT_BPSK	22.92
n41	30	50	504204	64@32	DFT_BPSK	23.01
n41	30	50	504204	1@1	DFT_BPSK	22.84
n41	30	50	504204	1@131	DFT_BPSK	22.69
n41	30	50	504204	128@0	DFT_QPSK	22.92
n41	30	50	504204	64@32	DFT_QPSK	23.03
n41	30	50	504204	1@1	DFT_QPSK	23.1
n41	30	50	504204	1@131	DFT_QPSK	22.89
n41	30	50	504204	128@0	DFT_16QAM	21.44
n41	30	50	504204	64@32	DFT_16QAM	22.57
n41	30	50	504204	1@1	DFT_16QAM	22.54
n41	30	50	504204	1@131	DFT_16QAM	22.33
n41	30	50	504204	128@0	DFT_64QAM	20.41
n41	30	50	504204	64@32	DFT_64QAM	20.52
n41	30	50	504204	1@1	DFT_64QAM	20.41
n41	30	50	504204	1@131	DFT_64QAM	20.21
n41	30	50	504204	128@0	DFT_256QAM	18.39
n41	30	50	504204	64@32	DFT_256QAM	18.44
n41	30	50	504204	1@1	DFT_256QAM	18.58
n41	30	50	504204	1@131	DFT_256QAM	18.38
n41	30	50	504204	133@0	CP_QPSK	19.92
n41	30	50	504204	67@33	CP_QPSK	22.6
n41	30	50	504204	1@1	CP_QPSK	22.34
n41	30	50	504204	1@131	CP_QPSK	22.23
n41	30	50	504204	133@0	CP_16QAM	19.93
n41	30	50	504204	67@33	CP_16QAM	21.02
n41	30	50	504204	1@1	CP_16QAM	21.01
n41	30	50	504204	1@131	CP_16QAM	20.81
n41	30	50	504204	133@0	CP_64QAM	19.41
n41	30	50	504204	67@33	CP_64QAM	19.44
n41	30	50	504204	1@1	CP_64QAM	19.27
n41	30	50	504204	1@131	CP_64QAM	19.05
n41	30	50	504204	133@0	CP_256QAM	16.38
n41	30	50	504204	67@33	CP_256QAM	16.43
n41	30	50	504204	1@1	CP_256QAM	16.58
n41	30	50	504204	1@131	CP_256QAM	16.37
n41	30	50	518598	128@0	DFT_BPSK	22.97
n41	30	50	518598	64@32	DFT_BPSK	23.09
n41	30	50	518598	1@1	DFT_BPSK	22.8
n41	30	50	518598	1@131	DFT_BPSK	22.78
n41	30	50	518598	128@0	DFT_QPSK	22.99
n41	30	50	518598	64@32	DFT_QPSK	23.11
n41	30	50	518598	1@1	DFT_QPSK	22.82
n41	30	50	518598	1@131	DFT_QPSK	22.82
n41	30	50	518598	128@0	DFT_16QAM	21.49
n41	30	50	518598	64@32	DFT_16QAM	22.64
n41	30	50	518598	1@1	DFT_16QAM	22.4
n41	30	50	518598	1@131	DFT_16QAM	22.38
n41	30	50	518598	128@0	DFT_64QAM	20.49
n41	30	50	518598	64@32	DFT_64QAM	20.58
n41	30	50	518598	1@1	DFT_64QAM	20.33
n41	30	50	518598	1@131	DFT_64QAM	20.32
n41	30	50	518598	128@0	DFT_256QAM	18.44
n41	30	50	518598	64@32	DFT_256QAM	18.51
n41	30	50	518598	1@1	DFT_256QAM	18.47
n41	30	50	518598	1@131	DFT_256QAM	18.44
n41	30	50	518598	133@0	CP_QPSK	20.02



n41	30	50	518598	67@33	CP_QPSK	22.6
n41	30	50	518598	1@1	CP_QPSK	22.51
n41	30	50	518598	1@131	CP_QPSK	22.49
n41	30	50	518598	133@0	CP_16QAM	20
n41	30	50	518598	67@33	CP_16QAM	21.09
n41	30	50	518598	1@1	CP_16QAM	20.94
n41	30	50	518598	1@131	CP_16QAM	20.89
n41	30	50	518598	133@0	CP_64QAM	19.48
n41	30	50	518598	67@33	CP_64QAM	19.52
n41	30	50	518598	1@1	CP_64QAM	19.18
n41	30	50	518598	1@131	CP_64QAM	19.11
n41	30	50	518598	133@0	CP_256QAM	16.45
n41	30	50	518598	67@33	CP_256QAM	16.5
n41	30	50	518598	1@1	CP_256QAM	16.53
n41	30	50	518598	1@131	CP_256QAM	16.45
n41	30	50	532998	128@0	DFT_BPSK	22.79
n41	30	50	532998	64@32	DFT_BPSK	22.94
n41	30	50	532998	1@1	DFT_BPSK	22.66
n41	30	50	532998	1@131	DFT_BPSK	22.71
n41	30	50	532998	128@0	DFT_QPSK	22.83
n41	30	50	532998	64@32	DFT_QPSK	22.97
n41	30	50	532998	1@1	DFT_QPSK	22.7
n41	30	50	532998	1@131	DFT_QPSK	22.72
n41	30	50	532998	128@0	DFT_16QAM	21.33
n41	30	50	532998	64@32	DFT_16QAM	22.51
n41	30	50	532998	1@1	DFT_16QAM	22.32
n41	30	50	532998	1@131	DFT_16QAM	22.34
n41	30	50	532998	128@0	DFT_64QAM	20.29
n41	30	50	532998	64@32	DFT_64QAM	20.45
n41	30	50	532998	1@1	DFT_64QAM	20.22
n41	30	50	532998	1@131	DFT_64QAM	20.24
n41	30	50	532998	128@0	DFT_256QAM	18.27
n41	30	50	532998	64@32	DFT_256QAM	18.35
n41	30	50	532998	1@1	DFT_256QAM	18.33
n41	30	50	532998	1@131	DFT_256QAM	18.4
n41	30	50	532998	133@0	CP_QPSK	19.81
n41	30	50	532998	67@33	CP_QPSK	22.45
n41	30	50	532998	1@1	CP_QPSK	22.79
n41	30	50	532998	1@131	CP_QPSK	22.84
n41	30	50	532998	133@0	CP_16QAM	19.79
n41	30	50	532998	67@33	CP_16QAM	20.94
n41	30	50	532998	1@1	CP_16QAM	20.67
n41	30	50	532998	1@131	CP_16QAM	20.7
n41	30	50	532998	133@0	CP_64QAM	19.26
n41	30	50	532998	67@33	CP_64QAM	19.37
n41	30	50	532998	1@1	CP_64QAM	19.01
n41	30	50	532998	1@131	CP_64QAM	19.08
n41	30	50	532998	133@0	CP_256QAM	16.36
n41	30	50	532998	67@33	CP_256QAM	16.35
n41	30	50	532998	1@1	CP_256QAM	16.59
n41	30	50	532998	1@131	CP_256QAM	16.46



n41	30	60	505200	162@0	DFT_BPSK	22.88
n41	30	60	505200	81@40	DFT_BPSK	23.02
n41	30	60	505200	1@1	DFT_BPSK	22.67
n41	30	60	505200	1@160	DFT_BPSK	22.53
n41	30	60	505200	162@0	DFT_QPSK	22.91
n41	30	60	505200	81@40	DFT_QPSK	23.04
n41	30	60	505200	1@1	DFT_QPSK	22.71
n41	30	60	505200	1@160	DFT_QPSK	22.54
n41	30	60	505200	162@0	DFT_16QAM	21.39
n41	30	60	505200	81@40	DFT_16QAM	22.59
n41	30	60	505200	1@1	DFT_16QAM	22.29
n41	30	60	505200	1@160	DFT_16QAM	22.13
n41	30	60	505200	162@0	DFT_64QAM	20.34
n41	30	60	505200	81@40	DFT_64QAM	20.48
n41	30	60	505200	1@1	DFT_64QAM	20.25
n41	30	60	505200	1@160	DFT_64QAM	20.08
n41	30	60	505200	162@0	DFT_256QAM	18.33
n41	30	60	505200	81@40	DFT_256QAM	18.44
n41	30	60	505200	1@1	DFT_256QAM	18.39
n41	30	60	505200	1@160	DFT_256QAM	18.21
n41	30	60	505200	162@0	CP_QPSK	19.85
n41	30	60	505200	81@40	CP_QPSK	22.53
n41	30	60	505200	1@1	CP_QPSK	22.38
n41	30	60	505200	1@160	CP_QPSK	22.24
n41	30	60	505200	162@0	CP_16QAM	19.83
n41	30	60	505200	81@40	CP_16QAM	20.96
n41	30	60	505200	1@1	CP_16QAM	20.76
n41	30	60	505200	1@160	CP_16QAM	20.61
n41	30	60	505200	162@0	CP_64QAM	19.33
n41	30	60	505200	81@40	CP_64QAM	19.44
n41	30	60	505200	1@1	CP_64QAM	19.02
n41	30	60	505200	1@160	CP_64QAM	18.87
n41	30	60	505200	162@0	CP_256QAM	16.29
n41	30	60	505200	81@40	CP_256QAM	16.4
n41	30	60	505200	1@1	CP_256QAM	16.42
n41	30	60	505200	1@160	CP_256QAM	16.25
n41	30	60	518598	162@0	DFT_BPSK	22.98
n41	30	60	518598	81@40	DFT_BPSK	23.07
n41	30	60	518598	1@1	DFT_BPSK	22.66
n41	30	60	518598	1@160	DFT_BPSK	22.64
n41	30	60	518598	162@0	DFT_QPSK	23
n41	30	60	518598	81@40	DFT_QPSK	23.12
n41	30	60	518598	1@1	DFT_QPSK	22.68
n41	30	60	518598	1@160	DFT_QPSK	22.67
n41	30	60	518598	162@0	DFT_16QAM	21.5
n41	30	60	518598	81@40	DFT_16QAM	22.63
n41	30	60	518598	1@1	DFT_16QAM	22.25
n41	30	60	518598	1@160	DFT_16QAM	22.23
n41	30	60	518598	162@0	DFT_64QAM	20.47
n41	30	60	518598	81@40	DFT_64QAM	20.53
n41	30	60	518598	1@1	DFT_64QAM	20.21
n41	30	60	518598	1@160	DFT_64QAM	20.2
n41	30	60	518598	162@0	DFT_256QAM	18.42
n41	30	60	518598	81@40	DFT_256QAM	18.48
n41	30	60	518598	1@1	DFT_256QAM	18.31
n41	30	60	518598	1@160	DFT_256QAM	18.33
n41	30	60	518598	162@0	CP_QPSK	19.93



n41	30	60	518598	81@40	CP_QPSK	22.59
n41	30	60	518598	1@1	CP_QPSK	22.46
n41	30	60	518598	1@160	CP_QPSK	22.49
n41	30	60	518598	162@0	CP_16QAM	19.95
n41	30	60	518598	81@40	CP_16QAM	21.04
n41	30	60	518598	1@1	CP_16QAM	20.8
n41	30	60	518598	1@160	CP_16QAM	20.75
n41	30	60	518598	162@0	CP_64QAM	19.43
n41	30	60	518598	81@40	CP_64QAM	19.5
n41	30	60	518598	1@1	CP_64QAM	19.01
n41	30	60	518598	1@160	CP_64QAM	19.01
n41	30	60	518598	162@0	CP_256QAM	16.38
n41	30	60	518598	81@40	CP_256QAM	16.46
n41	30	60	518598	1@1	CP_256QAM	16.41
n41	30	60	518598	1@160	CP_256QAM	16.33
n41	30	60	531996	162@0	DFT_BPSK	22.77
n41	30	60	531996	81@40	DFT_BPSK	22.94
n41	30	60	531996	1@1	DFT_BPSK	22.57
n41	30	60	531996	1@160	DFT_BPSK	22.56
n41	30	60	531996	162@0	DFT_QPSK	22.79
n41	30	60	531996	81@40	DFT_QPSK	22.99
n41	30	60	531996	1@1	DFT_QPSK	22.62
n41	30	60	531996	1@160	DFT_QPSK	22.57
n41	30	60	531996	162@0	DFT_16QAM	21.27
n41	30	60	531996	81@40	DFT_16QAM	22.5
n41	30	60	531996	1@1	DFT_16QAM	22.17
n41	30	60	531996	1@160	DFT_16QAM	22.16
n41	30	60	531996	162@0	DFT_64QAM	20.26
n41	30	60	531996	81@40	DFT_64QAM	20.42
n41	30	60	531996	1@1	DFT_64QAM	20.12
n41	30	60	531996	1@160	DFT_64QAM	20.11
n41	30	60	531996	162@0	DFT_256QAM	18.23
n41	30	60	531996	81@40	DFT_256QAM	18.37
n41	30	60	531996	1@1	DFT_256QAM	18.21
n41	30	60	531996	1@160	DFT_256QAM	18.2
n41	30	60	531996	162@0	CP_QPSK	19.72
n41	30	60	531996	81@40	CP_QPSK	22.45
n41	30	60	531996	1@1	CP_QPSK	22.36
n41	30	60	531996	1@160	CP_QPSK	22.34
n41	30	60	531996	162@0	CP_16QAM	19.74
n41	30	60	531996	81@40	CP_16QAM	20.88
n41	30	60	531996	1@1	CP_16QAM	20.68
n41	30	60	531996	1@160	CP_16QAM	20.62
n41	30	60	531996	162@0	CP_64QAM	19.22
n41	30	60	531996	81@40	CP_64QAM	19.38
n41	30	60	531996	1@1	CP_64QAM	18.92
n41	30	60	531996	1@160	CP_64QAM	18.9
n41	30	60	531996	162@0	CP_256QAM	16.15
n41	30	60	531996	81@40	CP_256QAM	16.32
n41	30	60	531996	1@1	CP_256QAM	16.28
n41	30	60	531996	1@160	CP_256QAM	16.25



n41	30	80	507204	216@0	DFT_BPSK	22.85
n41	30	80	507204	108@54	DFT_BPSK	23.01
n41	30	80	507204	1@1	DFT_BPSK	22.53
n41	30	80	507204	1@215	DFT_BPSK	22.35
n41	30	80	507204	216@0	DFT_QPSK	22.89
n41	30	80	507204	108@54	DFT_QPSK	23.03
n41	30	80	507204	1@1	DFT_QPSK	22.48
n41	30	80	507204	1@215	DFT_QPSK	22.31
n41	30	80	507204	216@0	DFT_16QAM	21.36
n41	30	80	507204	108@54	DFT_16QAM	22.54
n41	30	80	507204	1@1	DFT_16QAM	22.14
n41	30	80	507204	1@215	DFT_16QAM	21.97
n41	30	80	507204	216@0	DFT_64QAM	20.35
n41	30	80	507204	108@54	DFT_64QAM	20.48
n41	30	80	507204	1@1	DFT_64QAM	20.06
n41	30	80	507204	1@215	DFT_64QAM	19.89
n41	30	80	507204	216@0	DFT_256QAM	18.29
n41	30	80	507204	108@54	DFT_256QAM	18.42
n41	30	80	507204	1@1	DFT_256QAM	18.13
n41	30	80	507204	1@215	DFT_256QAM	17.92
n41	30	80	507204	217@0	CP_QPSK	19.81
n41	30	80	507204	109@54	CP_QPSK	22.47
n41	30	80	507204	1@1	CP_QPSK	22.58
n41	30	80	507204	1@215	CP_QPSK	22.3
n41	30	80	507204	217@0	CP_16QAM	19.81
n41	30	80	507204	109@54	CP_16QAM	20.98
n41	30	80	507204	1@1	CP_16QAM	20.73
n41	30	80	507204	1@215	CP_16QAM	20.55
n41	30	80	507204	217@0	CP_64QAM	19.3
n41	30	80	507204	109@54	CP_64QAM	19.48
n41	30	80	507204	1@1	CP_64QAM	18.84
n41	30	80	507204	1@215	CP_64QAM	18.68
n41	30	80	507204	217@0	CP_256QAM	16.23
n41	30	80	507204	109@54	CP_256QAM	16.4
n41	30	80	507204	1@1	CP_256QAM	16.23
n41	30	80	507204	1@215	CP_256QAM	16.03
n41	30	80	518598	216@0	DFT_BPSK	22.94
n41	30	80	518598	108@54	DFT_BPSK	23.02
n41	30	80	518598	1@1	DFT_BPSK	22.5
n41	30	80	518598	1@215	DFT_BPSK	22.45
n41	30	80	518598	216@0	DFT_QPSK	22.96
n41	30	80	518598	108@54	DFT_QPSK	23.06
n41	30	80	518598	1@1	DFT_QPSK	22.63
n41	30	80	518598	1@215	DFT_QPSK	22.61
n41	30	80	518598	216@0	DFT_16QAM	21.45
n41	30	80	518598	108@54	DFT_16QAM	22.6
n41	30	80	518598	1@1	DFT_16QAM	22.27
n41	30	80	518598	1@215	DFT_16QAM	22.23
n41	30	80	518598	216@0	DFT_64QAM	20.42
n41	30	80	518598	108@54	DFT_64QAM	20.51
n41	30	80	518598	1@1	DFT_64QAM	20.03
n41	30	80	518598	1@215	DFT_64QAM	19.97
n41	30	80	518598	216@0	DFT_256QAM	18.37
n41	30	80	518598	108@54	DFT_256QAM	18.42
n41	30	80	518598	1@1	DFT_256QAM	18.17
n41	30	80	518598	1@215	DFT_256QAM	18.08
n41	30	80	518598	217@0	CP_QPSK	19.87