



FCC RF Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2171-2
FCC ID : IHDT56ZX4
STANDARD : 47 CFR Part 2, Part 27 Subpart Q
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Sep. 27, 2021 ~ Sep. 28, 2021

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

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

Derreck Chen

Reviewed by: Derreck Chen / Supervisor

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Approved by: Eric Shih / Manager



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People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG180410D	Rev. 01	Initial issue of report	Oct. 08, 2021



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
3.5	§27.50 (k)(3)	EIRP	EIRP < 1W (30dBm)	PASS	-
4.4	§2.1053 §27.53 (n)(2)	Radiated Spurious Emission	-13dBm/MHz	PASS	Under limit 24.92 dB at 10336.000 and 10372.000 MHz

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

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



1 General Description

1.1 Applicant

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

1.2 Manufacturer

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

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2171-2
FCC ID	IHDT56ZX4
IMEI Code	Conducted: 353121920026991 Radiation: 352867310021536/352867310021544
HW Version	DVT2
SW Version	RRYA31.Q3-23
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Product Feature	
Tx/Rx Frequency	5G NR n77/n78: 3450 MHz ~ 3550 MHz
Bandwidth	n77: 30MHz / 40MHz / 60MHz / 80MHz / 100MHz n78: 20MHz / 30MHz / 40MHz / 50MHz / 60MHz / 70MHz / 80MHz / 90MHz / 100MHz
SCS	30kHz
Maximum Output Power to Antenna	5G NR n77 : 23.31 dBm 5G NR n78 : 25.64 dBm
Antenna Gain	5G NR n77: -3.3 dBi 5G NR n78: -3.3 dBi
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

Remark:

1. 5G NR bands supports NSA mode only. For NSA mode of all 5G NR, we only show the combination of the maximum power among all NSA combinations in the report. According to the maximum power, 5G NR n78 covers 5G NR n77.
2. For modulation of CP-OFDM and DFT-s-OFDM, the maximum power of CP-OFDM is lower than DFT-s-OFDM modulation, therefore, we chose higher power (DFT-s-OFDM modulation) to perform all tests and show in the report.
3. The EN-DC combination declared by the manufacturer is as follows:

EN-DC Combination	EN-DC Combination
DC_5A_n78A	DC_41A_n77A
DC_7A_n78A	
DC_38A_n78A	
DC_41A_n78A	

4. 5G NR n78 supports HPUE.

1.5 Modification of EUT

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

1.6 Specification of Accessory

Specification of Accessory				
AC Adapter 1(US)	Brand Name	Motorola(Chenyang)	Model Name	MC-101
AC Adapter 1(EU)	Brand Name	Motorola(Chenyang)	Model Name	MC-102
AC Adapter 1(UK)	Brand Name	Motorola(Chenyang)	Model Name	MC-103
AC Adapter 1(AU)	Brand Name	Motorola(Chenyang)	Model Name	MC-105
AC Adapter 2(US)	Brand Name	Motorola(Salcomp)	Model Name	MC-101
AC Adapter 2(EU)	Brand Name	Motorola(Salcomp)	Model Name	MC-102
AC Adapter 2(UK)	Brand Name	Motorola(Salcomp)	Model Name	MC-103
AC Adapter 2(AU)	Brand Name	Motorola(Salcomp)	Model Name	MC-105
AC Adapter 3(US)	Brand Name	Motorola(Aohai)	Model Name	MC-101
AC Adapter 3(EU)	Brand Name	Motorola(Aohai)	Model Name	MC-102
AC Adapter 3(UK)	Brand Name	Motorola(Aohai)	Model Name	MC-103
AC Adapter 3(AU)	Brand Name	Motorola(Aohai)	Model Name	MC-105
AC Adapter 4(US)	Brand Name	Motorola(Chenyang)	Model Name	MC-201
AC Adapter 4(AR)	Brand Name	Motorola(Chenyang)	Model Name	MC-206
AC Adapter 5(US)	Brand Name	Motorola(Acbel)	Model Name	MC-201
AC Adapter 5(AR)	Brand Name	Motorola(Acbel)	Model Name	MC-206
AC Adapter 5(Chile)	Brand Name	Motorola(Acbel)	Model Name	MC-209
AC Adapter 6(IN)	Brand Name	Motorola(Chenyang)	Model Name	MC-204
AC Adapter 7(IN)	Brand Name	Motorola(Aohai)	Model Name	MC-204
AC Adapter 8 (BR Local build)	Brand Name	Motorola(Salcomp)	Model Name	MC-207
AC Adapter 9 (BR Local build)	Brand Name	Motorola(Flex)	Model Name	MC-207
AC Adapter 10(US)	Brand Name	Motorola(Chenyang)	Model Name	MC-201
Earphone 1	Brand Name	Motorola(Juwei)	Model Name	MH202(JWEP1182-T03H)
Earphone 2	Brand Name	Motorola(New Leader)	Model Name	MH202(NLD-EM313A-11SF)
Earphone 3	Brand Name	Motorola(Juwei)	Model Name	MH191(JWEP1209-T03H)
Earphone 4	Brand Name	Motorola(New Leader)	Model Name	MH191(NLD-EM313A-21SF)
USB Cable 1	Brand Name	Motorola(Chuangyitong)	Model Name	88806-024
USB Cable 2	Brand Name	Motorola(SUNTOPS)	Model Name	336258
USB Cable 3	Brand Name	Motorola(I SHENG)	Model Name	SC18C28955
Battery	Brand Name	Motorola(ATL)	Model Name	JK50

1.7 Re-use of Measured Data

1.7.1 Introduction Section

This application re-uses data collected on a similar device. The subject device of this application (Model: XT2171-2, FCC ID: IHDT56ZX4) is electrically identical to the reference device (Model: XT2171-1, FCC ID: IHDT56ZX3) for the portions of the circuitry corresponding to the data being re-used, as treated by KDB Publication 484596 D01.

1.7.2 Difference Section

The **main** difference between FCC ID: IHDT56ZX3 and FCC ID: IHDT56ZX4 is as below:

- Remove WCDMA Band IV, LTE Band 4/12/13/17/66 and 5G NR n66.
- Add WCDMA Band XIX, LTE Band 18/19/20/32/41 and 5G NR n20/n38/n41/n77.

Other differences and all the details of similarity and difference can be found in the confidential documents (XT2171-2_Operational Description of Product Equality Declaration).

1.7.3 Reference detail Section:

Equipment Class	Reference FCC ID	Folder Test	Report Title/Section
PCE	IHDT56ZX3	Part27Q (5G NR) (Report No. FG180409E)	All sections applicable for 5G NR n77/78, except for Conducted power/EIRP/RSE

1.7.4 Spot Check Verification Data Section

Conducted power test against the variant model based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model

Summary for power spot check for each rule entry and technology is listed as below:

Test Item	Mode	IHDT56ZX3 Worst Result	IHDT56ZX4 Worst Result	Difference (dB)
Conducted Power (dBm)	n78	25.70	25.64	0.06

Conclusion:

Based on the spot check test result, the test data from the original model is representative for the variant model. The power level spot check are shown within expected level compliant to limit line.

We confirm that the test data reuse policy of FCC KDB 484596 D01 Referencing Test Data v01 has been followed and the test data as referenced from the parent model report represents compliance with new FCC ID.

1.8 Maximum EIRP Power

5G NR n77 (EN DC_41A-n77A)		PI/2 BPSK / QPSK	16QAM / 64QAM / 256QAM
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Maximum EIRP(W)
30	3465.00 ~ 3534.99	0.0998	0.0785
40	3470.01 ~ 3529.98	0.1002	0.0774
60	3480.00 ~ 3519.99	0.0982	0.0771
80	3490.02 ~ 3510.00	0.0927	0.0743
100	3500.01 ~ 3500.01	0.0925	0.0745
5G NR n78 (EN DC_41A-n78A)		PI/2 BPSK / QPSK	16QAM / 64QAM / 256QAM
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Maximum EIRP(W)
20	3460.02 ~ 3540.00	0.1714	0.1377
30	3465.00 ~ 3534.99	0.1629	0.1303
40	3470.01 ~ 3529.98	0.1637	0.1300
50	3475.02 ~ 3525.00	0.1567	0.1219
60	3480.00 ~ 3519.99	0.1592	0.1242
70	3485.01 ~ 3514.98	0.1531	0.1222
80	3490.02 ~ 3510.00	0.1514	0.1205
90	3495.00 ~ 3504.99	0.1528	0.1199
100	3500.01 ~ 3500.01	0.1500	0.1186

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

1.9 Testing Site

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

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

Test Firm	Sporton International (Shenzhen) Inc.		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH01-SZ	CN1256	421272

1.10 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH01-SZ	AUDIX	E3	6.2009-8-24



1.11 Applied Standards

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

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

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

2.1 Test Mode

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

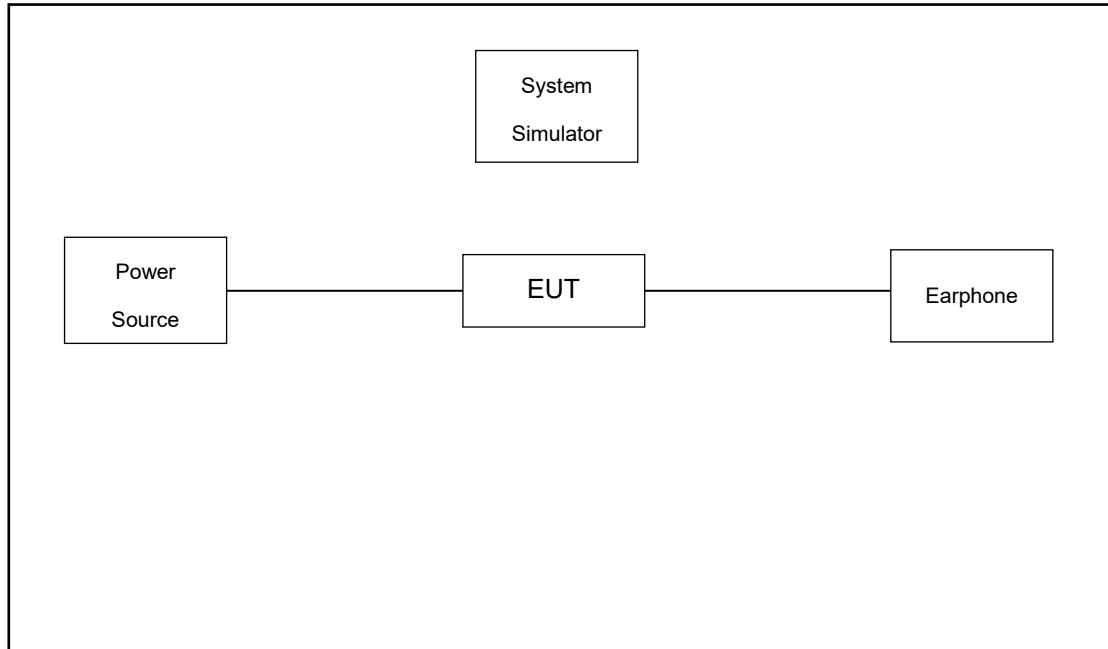
Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Test Cases	Band	Bandwidth (MHz)	Modulation	RB #	Test Channel
		eg. 5M, 10M, 15M, 20M	eg. QPSK, 16QAM, 64QAM	1RB, Partial RB, Full RB	L/M/H
Max. Output Power	5G n77	30M, 40M, 60M, 80M, 100M	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB, Partial RB, Full RB	L, M, H
	5G n78	20M, 30M, 40M, 50M, 60M, 70M, 80M, 90M, 100M	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB, Partial RB, Full RB	L, M, H
E.I.R.P	5G n77	30M, 40M, 60M, 80M, 100M	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB, Partial RB, Full RB	L, M, H
	5G n78	20M, 30M, 40M, 50M, 60M, 70M, 80M, 90M, 100M	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB, Partial RB, Full RB	L, M, H
Radiated Spurious Emission	5G n77	Worst case from maximum power			M
	5G n78	Worst case from maximum power			M

Note:

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

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	LTE Base Station	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m



2.4 Frequency List of Low/Middle/High Channels

5G n77 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	-	633334	-
	Frequency	-	3500.01	-
80	Channel	632668	633334	634000
	Frequency	3490.02	3500.01	3510.00
60	Channel	632000	633334	634666
	Frequency	3480.00	3500.01	3519.99
40	Channel	631334	633334	635332
	Frequency	3470.01	3500.01	3529.98
30	Channel	631000	633334	635666
	Frequency	3465.00	3500.01	3534.99

5G n78 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	-	633334	-
	Frequency	-	3500.01	-
90	Channel	633000	633334	633666
	Frequency	3495.00	3500.01	3504.99
80	Channel	632668	633334	634000
	Frequency	3490.02	3500.01	3510.00
70	Channel	632334	633334	634332
	Frequency	3485.01	3500.01	3514.98
60	Channel	632000	633334	634666
	Frequency	3480.00	3500.01	3519.99
50	Channel	631668	633334	635000
	Frequency	3475.02	3500.01	3525.00
40	Channel	631334	633334	635332
	Frequency	3470.01	3500.01	3529.98
30	Channel	631000	633334	635666
	Frequency	3465.00	3500.01	3534.99
20	Channel	630668	633334	636000
	Frequency	3460.02	3500.01	3540.00

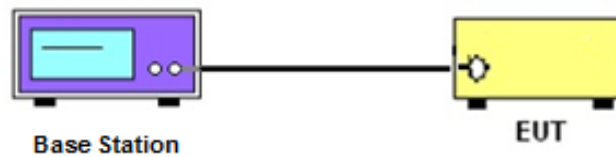
3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.2 Test Setup

3.2.1 Conducted Output Power



3.3 Test Result of Conducted Test

Please refer to Appendix A.



3.4 Conducted Output Power Measurement

3.4.1 Description of the Conducted Output Power Measurement

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals shall be reported.

3.4.2 Test Procedures

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



3.5 EIRP

3.5.1 Description of EIRP Limit

§ 27.50 (k)(3)

Mobile devices are limited to 1Watt (30 dBm) EIRP. Mobile devices operating in these bands must employ a means for limiting power to the minimum necessary for successful communications

3.5.2 Test Procedures

1. According to KDB 412172 D01 Power Approach,
2. $EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where
 P_T = transmitter output power in dBm
 G_T = gain of the transmitting antenna in dBi
 L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

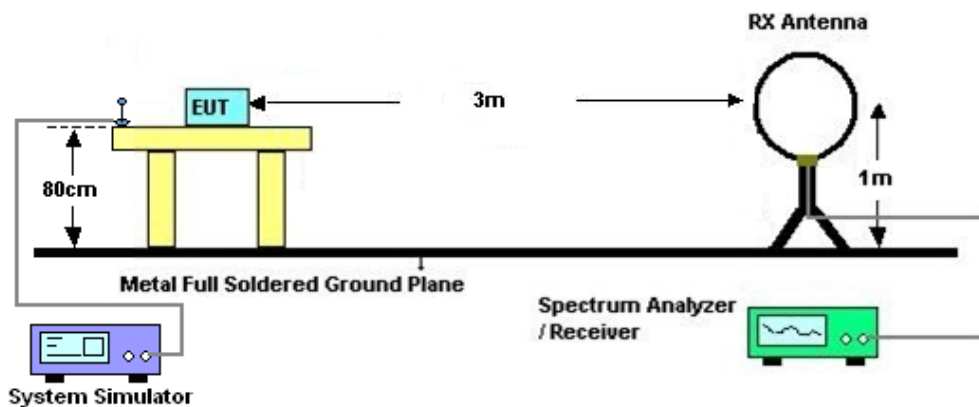
4 Radiated Test Items

4.1 Measuring Instruments

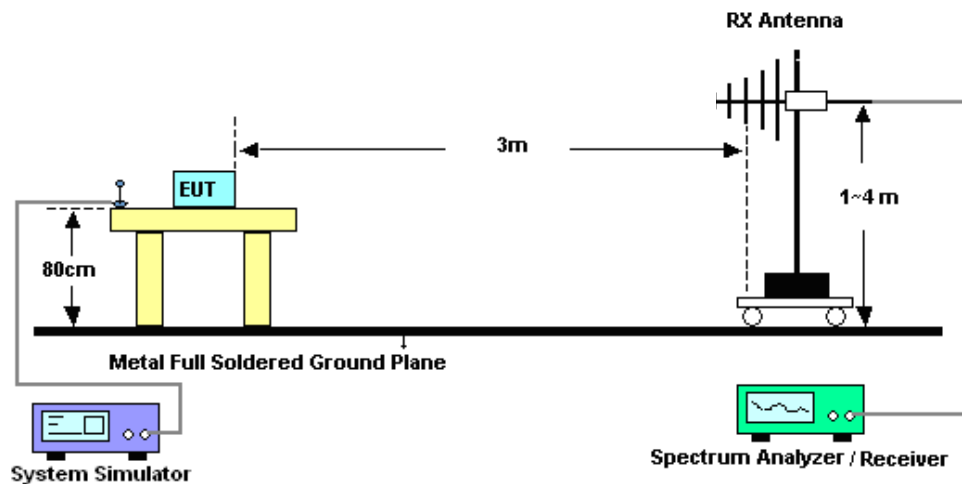
See list of measuring instruments of this test report.

4.2 Test Setup

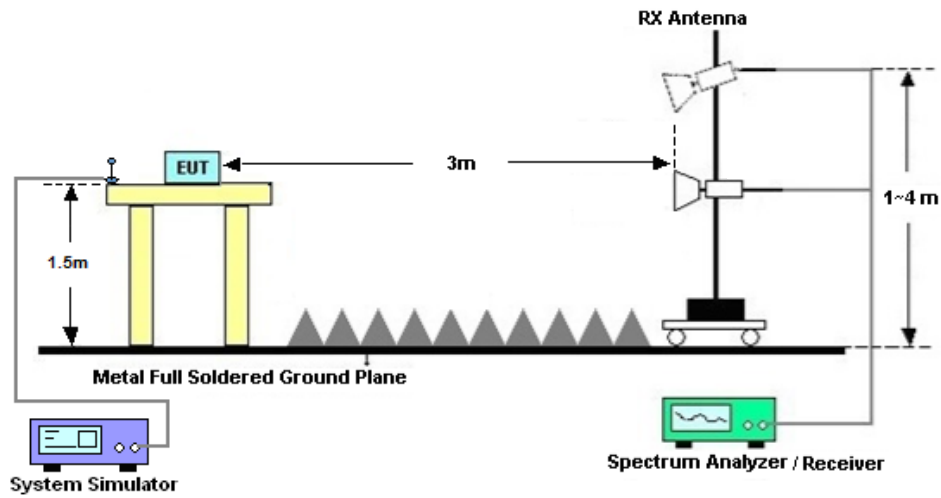
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

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

Please refer to Appendix B.

4.4 Radiated Spurious Emission Measurement

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges shall not exceed -13 dBm/MHz.

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

4.4.2 Test Procedures

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



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EXA Signal Analyzer	KEYSIGHT	N9010B	MY60240803	10Hz~44GHz	Apr. 03, 2021	Sep. 28, 2021	Apr. 02, 2022	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 26, 2020	Sep. 28, 2021	Dec. 25, 2021	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Dec. 03, 2020	Sep. 27, 2021	Dec. 02, 2021	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 22, 2021	Sep. 27, 2021	Jun. 21, 2022	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Jul. 15, 2021	Sep. 27, 2021	Jul. 14, 2022	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 25, 2021	Sep. 27, 2021	Jul. 24, 2022	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 11, 2021	Sep. 27, 2021	Apr. 10, 2022	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 07, 2021	Sep. 27, 2021	Apr. 06, 2022	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P-R	1943528	1GHz~18GHz	Oct. 16, 2020	Sep. 27, 2021	Oct. 15, 2021	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 16, 2020	Sep. 27, 2021	Oct. 15, 2021	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 21, 2021	Sep. 27, 2021	Jul. 20, 2022	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Sep. 27, 2021	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Sep. 27, 2021	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Sep. 27, 2021	NCR	Radiation (03CH01-SZ)

NCR: No Calibration Required

6 Uncertainty of Evaluation

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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.48dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.53dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.02dB
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----- THE END -----



Appendix A. Test Results of Conducted Test

FR1 N77

LTE Band: 41, LTE BW: 20M, LTE ARFCN: Mid

Transmitter Conducted Output Power And ERP/EIRP, ($G_T - L_C$)=-3.3dB

NR	SCS	Bandwidth	Arfcn	Freq	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
Band	(kHz)	(MHz)		(MHz)					
77	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	36@18	23.04	19.74	0.0942
77	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	1@1	23.02	19.72	0.0938
77	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	1@76	23.12	19.82	0.0959
77	30	30	631000	3465	DFT-s-OFDM QPSK	36@18	22.95	19.65	0.0923
77	30	30	631000	3465	DFT-s-OFDM QPSK	1@1	23.14	19.84	0.0964
77	30	30	631000	3465	DFT-s-OFDM QPSK	1@76	23.09	19.79	0.0953
77	30	30	631000	3465	DFT-s-OFDM 16 QAM	36@18	22.05	18.75	0.0750
77	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@1	22.03	18.73	0.0746
77	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@76	22.16	18.86	0.0769
77	30	30	631000	3465	DFT-s-OFDM 64 QAM	36@18	20.66	17.36	0.0545
77	30	30	631000	3465	DFT-s-OFDM 64 QAM	1@1	20.73	17.43	0.0553
77	30	30	631000	3465	DFT-s-OFDM 64 QAM	1@76	20.78	17.48	0.0560
77	30	30	631000	3465	DFT-s-OFDM 256 QAM	36@18	18.51	15.21	0.0332
77	30	30	631000	3465	DFT-s-OFDM 256 QAM	1@1	18.63	15.33	0.0341
77	30	30	631000	3465	DFT-s-OFDM 256 QAM	1@76	18.65	15.35	0.0343
77	30	30	631000	3465	CP-OFDM QPSK	39@19	21.57	18.27	0.0671
77	30	30	631000	3465	CP-OFDM QPSK	1@1	21.65	18.35	0.0684
77	30	30	631000	3465	CP-OFDM QPSK	1@76	21.58	18.28	0.0673
77	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	36@18	23.24	19.94	0.0986

77	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.27	19.97	0.0993
77	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@76	23.04	19.74	0.0942
77	30	30	633334	3500.01	DFT-s-OFDM QPSK	36@18	23.14	19.84	0.0964
77	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.29	19.99	0.0998
77	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@76	23.18	19.88	0.0973
77	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	36@18	22.2	18.9	0.0776
77	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.25	18.95	0.0785
77	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@76	21.95	18.65	0.0733
77	30	30	633334	3500.01	DFT-s-OFDM 64 QAM	36@18	20.61	17.31	0.0538
77	30	30	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	20.77	17.47	0.0558
77	30	30	633334	3500.01	DFT-s-OFDM 64 QAM	1@76	20.6	17.3	0.0537
77	30	30	633334	3500.01	DFT-s-OFDM 256 QAM	36@18	18.6	15.3	0.0339
77	30	30	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	18.8	15.5	0.0355
77	30	30	633334	3500.01	DFT-s-OFDM 256 QAM	1@76	18.6	15.3	0.0339
77	30	30	633334	3500.01	CP-OFDM QPSK	39@19	21.72	18.42	0.0695
77	30	30	633334	3500.01	CP-OFDM QPSK	1@1	21.78	18.48	0.0705
77	30	30	633334	3500.01	CP-OFDM QPSK	1@76	21.51	18.21	0.0662
77	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	36@18	23.19	19.89	0.0975
77	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	1@1	23.23	19.93	0.0984
77	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	1@76	23.09	19.79	0.0953
77	30	30	635666	3534.99	DFT-s-OFDM QPSK	36@18	23.1	19.8	0.0955
77	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@1	23.26	19.96	0.0991
77	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@76	23.16	19.86	0.0968
77	30	30	635666	3534.99	DFT-s-OFDM 16	36@18	22.15	18.85	0.0767

QAM										
77	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@1	22.18	18.88	0.0773	
77	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@76	22.14	18.84	0.0766	
77	30	30	635666	3534.99	DFT-s-OFDM 64 QAM	36@18	20.65	17.35	0.0543	
77	30	30	635666	3534.99	DFT-s-OFDM 64 QAM	1@1	20.71	17.41	0.0551	
77	30	30	635666	3534.99	DFT-s-OFDM 64 QAM	1@76	20.43	17.13	0.0516	
77	30	30	635666	3534.99	DFT-s-OFDM 256 QAM	36@18	18.61	15.31	0.0340	
77	30	30	635666	3534.99	DFT-s-OFDM 256 QAM	1@1	18.82	15.52	0.0356	
77	30	30	635666	3534.99	DFT-s-OFDM 256 QAM	1@76	18.62	15.32	0.0340	
77	30	30	635666	3534.99	CP-OFDM QPSK	39@19	21.65	18.35	0.0684	
77	30	30	635666	3534.99	CP-OFDM QPSK	1@1	21.82	18.52	0.0711	
77	30	30	635666	3534.99	CP-OFDM QPSK	1@76	21.6	18.3	0.0676	
77	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	50@25	23.02	19.72	0.0938	
77	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@1	23.12	19.82	0.0959	
77	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@104	23.26	19.96	0.0991	
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	50@25	23.13	19.83	0.0962	
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	23.1	19.8	0.0955	
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@104	23.28	19.98	0.0995	
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	50@25	22.12	18.82	0.0762	
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	22.03	18.73	0.0746	
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@104	22.15	18.85	0.0767	
77	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	50@25	20.6	17.3	0.0537	
77	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	1@1	20.66	17.36	0.0545	
77	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	1@104	20.7	17.4	0.0550	

77	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	50@25	18.63	15.33	0.0341
77	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	1@1	18.55	15.25	0.0335
77	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	1@104	18.84	15.54	0.0358
77	30	40	631334	3470.01	CP-OFDM QPSK	53@26	21.58	18.28	0.0673
77	30	40	631334	3470.01	CP-OFDM QPSK	1@1	21.63	18.33	0.0681
77	30	40	631334	3470.01	CP-OFDM QPSK	1@104	21.69	18.39	0.0690
77	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@25	23.25	19.95	0.0989
77	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.25	19.95	0.0989
77	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@104	23.06	19.76	0.0946
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	50@25	23.23	19.93	0.0984
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.29	19.99	0.0998
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@104	23.18	19.88	0.0973
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	50@25	22.19	18.89	0.0774
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.08	18.78	0.0755
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@104	21.99	18.69	0.0740
77	30	40	633334	3500.01	DFT-s-OFDM 64 QAM	50@25	20.75	17.45	0.0556
77	30	40	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	20.73	17.43	0.0553
77	30	40	633334	3500.01	DFT-s-OFDM 64 QAM	1@104	20.6	17.3	0.0537
77	30	40	633334	3500.01	DFT-s-OFDM 256 QAM	50@25	18.63	15.33	0.0341
77	30	40	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	18.77	15.47	0.0352
77	30	40	633334	3500.01	DFT-s-OFDM 256 QAM	1@104	18.71	15.41	0.0348
77	30	40	633334	3500.01	CP-OFDM QPSK	53@26	21.66	18.36	0.0685
77	30	40	633334	3500.01	CP-OFDM QPSK	1@1	21.73	18.43	0.0697
77	30	40	633334	3500.01	CP-OFDM QPSK	1@104	21.74	18.44	0.0698

77	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	50@25	23.17	19.87	0.0971
77	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	1@1	23.21	19.91	0.0979
77	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	1@104	23.15	19.85	0.0966
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	50@25	23.13	19.83	0.0962
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@1	23.31	20.01	0.1002
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@104	23.2	19.9	0.0977
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	50@25	22.09	18.79	0.0757
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@1	22.15	18.85	0.0767
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@104	21.96	18.66	0.0735
77	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	50@25	20.53	17.23	0.0528
77	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	1@1	20.8	17.5	0.0562
77	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	1@104	20.79	17.49	0.0561
77	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	50@25	18.67	15.37	0.0344
77	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	1@1	18.8	15.5	0.0355
77	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	1@104	18.6	15.3	0.0339
77	30	40	635332	3529.98	CP-OFDM QPSK	53@26	21.61	18.31	0.0678
77	30	40	635332	3529.98	CP-OFDM QPSK	1@1	21.78	18.48	0.0705
77	30	40	635332	3529.98	CP-OFDM QPSK	1@104	21.72	18.42	0.0695
77	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	81@40	23.12	19.82	0.0959
77	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	1@1	23.03	19.73	0.0940
77	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	1@160	22.88	19.58	0.0908
77	30	60	632000	3480	DFT-s-OFDM QPSK	81@40	22.99	19.69	0.0931
77	30	60	632000	3480	DFT-s-OFDM QPSK	1@1	22.91	19.61	0.0914
77	30	60	632000	3480	DFT-s-OFDM	1@160	22.87	19.57	0.0906

QPSK									
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	81@40	22.17	18.87	0.0771
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@1	21.91	18.61	0.0726
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@160	21.86	18.56	0.0718
77	30	60	632000	3480	DFT-s-OFDM 64 QAM	81@40	20.57	17.27	0.0533
77	30	60	632000	3480	DFT-s-OFDM 64 QAM	1@1	20.62	17.32	0.0540
77	30	60	632000	3480	DFT-s-OFDM 64 QAM	1@160	20.46	17.16	0.0520
77	30	60	632000	3480	DFT-s-OFDM 256 QAM	81@40	18.6	15.3	0.0339
77	30	60	632000	3480	DFT-s-OFDM 256 QAM	1@1	18.53	15.23	0.0333
77	30	60	632000	3480	DFT-s-OFDM 256 QAM	1@160	18.39	15.09	0.0323
77	30	60	632000	3480	CP-OFDM QPSK	81@40	21.61	18.31	0.0678
77	30	60	632000	3480	CP-OFDM QPSK	1@1	21.51	18.21	0.0662
77	30	60	632000	3480	CP-OFDM QPSK	1@160	21.4	18.1	0.0646
77	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	81@40	23.08	19.78	0.0951
77	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	22.98	19.68	0.0929
77	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@160	22.89	19.59	0.0910
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	81@40	23.08	19.78	0.0951
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.94	19.64	0.0920
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@160	22.81	19.51	0.0893
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	81@40	22.13	18.83	0.0764
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	21.92	18.62	0.0728
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@160	21.65	18.35	0.0684
77	30	60	633334	3500.01	DFT-s-OFDM 64 QAM	81@40	20.78	17.48	0.0560
77	30	60	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	20.61	17.31	0.0538

77	30	60	633334	3500.01	DFT-s-OFDM 64 QAM	1@160	20.52	17.22	0.0527
77	30	60	633334	3500.01	DFT-s-OFDM 256 QAM	81@40	18.58	15.28	0.0337
77	30	60	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	18.55	15.25	0.0335
77	30	60	633334	3500.01	DFT-s-OFDM 256 QAM	1@160	18.39	15.09	0.0323
77	30	60	633334	3500.01	CP-OFDM QPSK	81@40	21.59	18.29	0.0675
77	30	60	633334	3500.01	CP-OFDM QPSK	1@1	21.59	18.29	0.0675
77	30	60	633334	3500.01	CP-OFDM QPSK	1@160	21.36	18.06	0.0640
77	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	81@40	23.12	19.82	0.0959
77	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	1@1	23.22	19.92	0.0982
77	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	1@160	22.88	19.58	0.0908
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	81@40	22.99	19.69	0.0931
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@1	23.15	19.85	0.0966
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@160	22.86	19.56	0.0904
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	81@40	22.01	18.71	0.0743
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@1	22.15	18.85	0.0767
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@160	21.9	18.6	0.0724
77	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	81@40	20.52	17.22	0.0527
77	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	1@1	20.85	17.55	0.0569
77	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	1@160	20.58	17.28	0.0535
77	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	81@40	18.57	15.27	0.0337
77	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	1@1	18.64	15.34	0.0342
77	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	1@160	18.38	15.08	0.0322
77	30	60	634666	3519.99	CP-OFDM QPSK	81@40	21.52	18.22	0.0664
77	30	60	634666	3519.99	CP-OFDM QPSK	1@1	21.69	18.39	0.0690

77	30	60	634666	3519.99	CP-OFDM QPSK	1@160	21.42	18.12	0.0649
77	30	80	632668	3490.02	DFT-s- OFDM PI/2 BPSK	108@54	22.86	19.56	0.0904
77	30	80	632668	3490.02	DFT-s- OFDM PI/2 BPSK	1@1	22.73	19.43	0.0877
77	30	80	632668	3490.02	DFT-s- OFDM PI/2 BPSK	1@215	22.55	19.25	0.0841
77	30	80	632668	3490.02	DFT-s- OFDM QPSK	108@54	22.87	19.57	0.0906
77	30	80	632668	3490.02	DFT-s- OFDM QPSK	1@1	22.79	19.49	0.0889
77	30	80	632668	3490.02	DFT-s- OFDM QPSK	1@215	22.62	19.32	0.0855
77	30	80	632668	3490.02	DFT-s- OFDM 16 QAM	108@54	21.83	18.53	0.0713
77	30	80	632668	3490.02	DFT-s- OFDM 16 QAM	1@1	21.67	18.37	0.0687
77	30	80	632668	3490.02	DFT-s- OFDM 16 QAM	1@215	21.7	18.4	0.0692
77	30	80	632668	3490.02	DFT-s- OFDM 64 QAM	108@54	20.38	17.08	0.0511
77	30	80	632668	3490.02	DFT-s- OFDM 64 QAM	1@1	20.12	16.82	0.0481
77	30	80	632668	3490.02	DFT-s- OFDM 64 QAM	1@215	19.98	16.68	0.0466
77	30	80	632668	3490.02	DFT-s- OFDM 256 QAM	108@54	18.38	15.08	0.0322
77	30	80	632668	3490.02	DFT-s- OFDM 256 QAM	1@1	18.3	15	0.0316
77	30	80	632668	3490.02	DFT-s- OFDM 256 QAM	1@215	18.11	14.81	0.0303
77	30	80	632668	3490.02	CP-OFDM QPSK	109@54	21.43	18.13	0.0650
77	30	80	632668	3490.02	CP-OFDM QPSK	1@1	21.34	18.04	0.0637
77	30	80	632668	3490.02	CP-OFDM QPSK	1@215	21.24	17.94	0.0622
77	30	80	633334	3500.01	DFT-s- OFDM PI/2 BPSK	108@54	22.91	19.61	0.0914
77	30	80	633334	3500.01	DFT-s- OFDM PI/2 BPSK	1@1	22.78	19.48	0.0887
77	30	80	633334	3500.01	DFT-s- OFDM PI/2 BPSK	1@215	22.65	19.35	0.0861
77	30	80	633334	3500.01	DFT-s- OFDM QPSK	108@54	22.93	19.63	0.0918
77	30	80	633334	3500.01	DFT-s- OFDM QPSK	1@1	22.78	19.48	0.0887

77	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@215	22.58	19.28	0.0847
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	108@54	21.95	18.65	0.0733
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	21.64	18.34	0.0682
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@215	21.54	18.24	0.0667
77	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	108@54	20.32	17.02	0.0504
77	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	20.22	16.92	0.0492
77	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	1@215	20.04	16.74	0.0472
77	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	108@54	18.46	15.16	0.0328
77	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	18.31	15.01	0.0317
77	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	1@215	18.24	14.94	0.0312
77	30	80	633334	3500.01	CP-OFDM QPSK	109@54	21.4	18.1	0.0646
77	30	80	633334	3500.01	CP-OFDM QPSK	1@1	21.46	18.16	0.0655
77	30	80	633334	3500.01	CP-OFDM QPSK	1@215	21.21	17.91	0.0618
77	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	108@54	22.97	19.67	0.0927
77	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	1@1	22.91	19.61	0.0914
77	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	1@215	22.61	19.31	0.0853
77	30	80	634000	3510	DFT-s-OFDM QPSK	108@54	22.96	19.66	0.0925
77	30	80	634000	3510	DFT-s-OFDM QPSK	1@1	22.9	19.6	0.0912
77	30	80	634000	3510	DFT-s-OFDM QPSK	1@215	22.72	19.42	0.0875
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	108@54	22.01	18.71	0.0743
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@1	21.74	18.44	0.0698
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@215	21.55	18.25	0.0668
77	30	80	634000	3510	DFT-s-OFDM 64 QAM	108@54	20.43	17.13	0.0516
77	30	80	634000	3510	DFT-s-OFDM 64 QAM	1@1	20.4	17.1	0.0513

QAM									
77	30	80	634000	3510	DFT-s-OFDM 64 QAM	1@215	20.22	16.92	0.0492
77	30	80	634000	3510	DFT-s-OFDM 256 QAM	108@54	18.48	15.18	0.0330
77	30	80	634000	3510	DFT-s-OFDM 256 QAM	1@1	18.38	15.08	0.0322
77	30	80	634000	3510	DFT-s-OFDM 256 QAM	1@215	18.21	14.91	0.0310
77	30	80	634000	3510	CP-OFDM QPSK	109@54	21.45	18.15	0.0653
77	30	80	634000	3510	CP-OFDM QPSK	1@1	21.52	18.22	0.0664
77	30	80	634000	3510	CP-OFDM QPSK	1@215	21.24	17.94	0.0622
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	22.95	19.65	0.0923
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	22.9	19.6	0.0912
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@271	22.78	19.48	0.0887
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@67	22.96	19.66	0.0925
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.83	19.53	0.0897
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@271	22.76	19.46	0.0883
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	135@67	22.02	18.72	0.0745
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	21.76	18.46	0.0701
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@271	21.73	18.43	0.0697
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	135@67	20.43	17.13	0.0516
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	20.41	17.11	0.0514
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@271	20.35	17.05	0.0507
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	135@67	18.38	15.08	0.0322
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	18.38	15.08	0.0322
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@271	18.19	14.89	0.0308
77	30	100	633334	3500.01	CP-OFDM QPSK	137@68	21.41	18.11	0.0647

77	30	100	633334	3500.01	CP-OFDM QPSK	1@1	21.4	18.1	0.0646
77	30	100	633334	3500.01	CP-OFDM QPSK	1@271	21.29	17.99	0.0630

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LTE Band: 41, LTE BW: 20M, LTE ARFCN: Mid

Transmitter Conducted Output Power And ERP/EIRP, ($G_T - L_C$)=-3.3dB

NR	SCS	Bandwidth	Arfcn	Freq	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
Band	(kHz)	(MHz)		(MHz)					
78	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	25@12	25.3	22	0.1585
78	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@1	25.37	22.07	0.1611
78	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@49	25.26	21.96	0.1570
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	25@12	25.33	22.03	0.1596
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	25.35	22.05	0.1603
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@49	25.33	22.03	0.1596
78	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	25@12	24.41	21.11	0.1291
78	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	24.41	21.11	0.1291
78	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@49	24.4	21.1	0.1288
78	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	25@12	22.87	19.57	0.0906
78	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	1@1	22.98	19.68	0.0929
78	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	1@49	22.88	19.58	0.0908
78	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	25@12	20.94	17.64	0.0581
78	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	1@1	20.94	17.64	0.0581
78	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	1@49	20.87	17.57	0.0571
78	30	20	630668	3460.02	CP-OFDM QPSK	25@12	23.87	20.57	0.1140
78	30	20	630668	3460.02	CP-OFDM QPSK	1@1	23.96	20.66	0.1164
78	30	20	630668	3460.02	CP-OFDM QPSK	1@49	23.95	20.65	0.1161
78	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	25@12	25.58	22.28	0.1690

78	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.62	22.32	0.1706
78	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@49	25.54	22.24	0.1675
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	25@12	25.63	22.33	0.1710
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.64	22.34	0.1714
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@49	25.57	22.27	0.1687
78	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	25@12	24.69	21.39	0.1377
78	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.68	21.38	0.1374
78	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@49	24.55	21.25	0.1334
78	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	25@12	23.13	19.83	0.0962
78	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.28	19.98	0.0995
78	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	1@49	23.17	19.87	0.0971
78	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	25@12	21.25	17.95	0.0624
78	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.13	17.83	0.0607
78	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	1@49	21.1	17.8	0.0603
78	30	20	633334	3500.01	CP-OFDM QPSK	25@12	24.16	20.86	0.1219
78	30	20	633334	3500.01	CP-OFDM QPSK	1@1	24.2	20.9	0.1230
78	30	20	633334	3500.01	CP-OFDM QPSK	1@49	24.07	20.77	0.1194
78	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	25@12	25.53	22.23	0.1671
78	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@1	25.43	22.13	0.1633
78	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@49	25.5	22.2	0.1660
78	30	20	636000	3540	DFT-s-OFDM QPSK	25@12	25.59	22.29	0.1694
78	30	20	636000	3540	DFT-s-OFDM QPSK	1@1	25.58	22.28	0.1690
78	30	20	636000	3540	DFT-s-OFDM QPSK	1@49	25.54	22.24	0.1675
78	30	20	636000	3540	DFT-s-OFDM 16	25@12	24.61	21.31	0.1352

QAM									
78	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	24.57	21.27	0.1340
78	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@49	24.45	21.15	0.1303
78	30	20	636000	3540	DFT-s-OFDM 64 QAM	25@12	23.12	19.82	0.0959
78	30	20	636000	3540	DFT-s-OFDM 64 QAM	1@1	23.14	19.84	0.0964
78	30	20	636000	3540	DFT-s-OFDM 64 QAM	1@49	23.2	19.9	0.0977
78	30	20	636000	3540	DFT-s-OFDM 256 QAM	25@12	21.2	17.9	0.0617
78	30	20	636000	3540	DFT-s-OFDM 256 QAM	1@1	21.13	17.83	0.0607
78	30	20	636000	3540	DFT-s-OFDM 256 QAM	1@49	21.08	17.78	0.0600
78	30	20	636000	3540	CP-OFDM QPSK	25@12	24.1	20.8	0.1202
78	30	20	636000	3540	CP-OFDM QPSK	1@1	24.03	20.73	0.1183
78	30	20	636000	3540	CP-OFDM QPSK	1@49	24.06	20.76	0.1191
78	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	36@18	25.28	21.98	0.1578
78	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	1@1	25.31	22.01	0.1589
78	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	1@76	25.31	22.01	0.1589
78	30	30	631000	3465	DFT-s-OFDM QPSK	36@18	25.35	22.05	0.1603
78	30	30	631000	3465	DFT-s-OFDM QPSK	1@1	25.32	22.02	0.1592
78	30	30	631000	3465	DFT-s-OFDM QPSK	1@76	25.28	21.98	0.1578
78	30	30	631000	3465	DFT-s-OFDM 16 QAM	36@18	24.29	20.99	0.1256
78	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@1	24.37	21.07	0.1279
78	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@76	24.45	21.15	0.1303
78	30	30	631000	3465	DFT-s-OFDM 64 QAM	36@18	22.82	19.52	0.0895
78	30	30	631000	3465	DFT-s-OFDM 64 QAM	1@1	22.86	19.56	0.0904
78	30	30	631000	3465	DFT-s-OFDM 64 QAM	1@76	22.8	19.5	0.0891

78	30	30	631000	3465	DFT-s-OFDM 256 QAM	36@18	20.74	17.44	0.0555
78	30	30	631000	3465	DFT-s-OFDM 256 QAM	1@1	20.85	17.55	0.0569
78	30	30	631000	3465	DFT-s-OFDM 256 QAM	1@76	20.84	17.54	0.0568
78	30	30	631000	3465	CP-OFDM QPSK	39@19	23.78	20.48	0.1117
78	30	30	631000	3465	CP-OFDM QPSK	1@1	23.87	20.57	0.1140
78	30	30	631000	3465	CP-OFDM QPSK	1@76	23.74	20.44	0.1107
78	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	36@18	25.42	22.12	0.1629
78	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.36	22.06	0.1607
78	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@76	25.23	21.93	0.1560
78	30	30	633334	3500.01	DFT-s-OFDM QPSK	36@18	25.36	22.06	0.1607
78	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.39	22.09	0.1618
78	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@76	25.27	21.97	0.1574
78	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	36@18	24.41	21.11	0.1291
78	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.33	21.03	0.1268
78	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@76	24.18	20.88	0.1225
78	30	30	633334	3500.01	DFT-s-OFDM 64 QAM	36@18	22.94	19.64	0.0920
78	30	30	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	22.96	19.66	0.0925
78	30	30	633334	3500.01	DFT-s-OFDM 64 QAM	1@76	22.81	19.51	0.0893
78	30	30	633334	3500.01	DFT-s-OFDM 256 QAM	36@18	20.89	17.59	0.0574
78	30	30	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21	17.7	0.0589
78	30	30	633334	3500.01	DFT-s-OFDM 256 QAM	1@76	20.81	17.51	0.0564
78	30	30	633334	3500.01	CP-OFDM QPSK	39@19	23.85	20.55	0.1135
78	30	30	633334	3500.01	CP-OFDM QPSK	1@1	23.89	20.59	0.1146
78	30	30	633334	3500.01	CP-OFDM QPSK	1@76	23.7	20.4	0.1096

78	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	36@18	25.31	22.01	0.1589
78	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	1@1	25.38	22.08	0.1614
78	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	1@76	25.25	21.95	0.1567
78	30	30	635666	3534.99	DFT-s-OFDM QPSK	36@18	25.3	22	0.1585
78	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@1	25.4	22.1	0.1622
78	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@76	25.3	22	0.1585
78	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	36@18	24.29	20.99	0.1256
78	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@1	24.38	21.08	0.1282
78	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@76	24.31	21.01	0.1262
78	30	30	635666	3534.99	DFT-s-OFDM 64 QAM	36@18	22.8	19.5	0.0891
78	30	30	635666	3534.99	DFT-s-OFDM 64 QAM	1@1	22.92	19.62	0.0916
78	30	30	635666	3534.99	DFT-s-OFDM 64 QAM	1@76	22.85	19.55	0.0902
78	30	30	635666	3534.99	DFT-s-OFDM 256 QAM	36@18	20.84	17.54	0.0568
78	30	30	635666	3534.99	DFT-s-OFDM 256 QAM	1@1	20.98	17.68	0.0586
78	30	30	635666	3534.99	DFT-s-OFDM 256 QAM	1@76	20.81	17.51	0.0564
78	30	30	635666	3534.99	CP-OFDM QPSK	39@19	23.81	20.51	0.1125
78	30	30	635666	3534.99	CP-OFDM QPSK	1@1	23.91	20.61	0.1151
78	30	30	635666	3534.99	CP-OFDM QPSK	1@76	23.74	20.44	0.1107
78	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	50@25	25.36	22.06	0.1607
78	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@1	25.34	22.04	0.1600
78	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@104	25.35	22.05	0.1603
78	30	40	631334	3470.01	DFT-s-OFDM QPSK	50@25	25.28	21.98	0.1578
78	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	25.39	22.09	0.1618
78	30	40	631334	3470.01	DFT-s-OFDM	1@104	25.32	22.02	0.1592

QPSK									
78	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	50@25	24.27	20.97	0.1250
78	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	24.28	20.98	0.1253
78	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@104	24.28	20.98	0.1253
78	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	50@25	22.76	19.46	0.0883
78	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	1@1	22.94	19.64	0.0920
78	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	1@104	22.86	19.56	0.0904
78	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	50@25	20.88	17.58	0.0573
78	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	1@1	20.99	17.69	0.0587
78	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	1@104	20.86	17.56	0.0570
78	30	40	631334	3470.01	CP-OFDM QPSK	53@26	23.79	20.49	0.1119
78	30	40	631334	3470.01	CP-OFDM QPSK	1@1	23.95	20.65	0.1161
78	30	40	631334	3470.01	CP-OFDM QPSK	1@104	24	20.7	0.1175
78	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@25	25.36	22.06	0.1607
78	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.38	22.08	0.1614
78	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@104	25.24	21.94	0.1563
78	30	40	633334	3500.01	DFT-s-OFDM QPSK	50@25	25.36	22.06	0.1607
78	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.44	22.14	0.1637
78	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@104	25.28	21.98	0.1578
78	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	50@25	24.42	21.12	0.1294
78	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.3	21	0.1259
78	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@104	24.29	20.99	0.1256
78	30	40	633334	3500.01	DFT-s-OFDM 64 QAM	50@25	22.86	19.56	0.0904
78	30	40	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	22.97	19.67	0.0927

78	30	40	633334	3500.01	DFT-s-OFDM 64 QAM	1@104	22.78	19.48	0.0887
78	30	40	633334	3500.01	DFT-s-OFDM 256 QAM	50@25	20.87	17.57	0.0571
78	30	40	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	20.93	17.63	0.0579
78	30	40	633334	3500.01	DFT-s-OFDM 256 QAM	1@104	20.9	17.6	0.0575
78	30	40	633334	3500.01	CP-OFDM QPSK	53@26	23.87	20.57	0.1140
78	30	40	633334	3500.01	CP-OFDM QPSK	1@1	23.92	20.62	0.1153
78	30	40	633334	3500.01	CP-OFDM QPSK	1@104	23.8	20.5	0.1122
78	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	50@25	25.3	22	0.1585
78	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	1@1	25.42	22.12	0.1629
78	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	1@104	25.25	21.95	0.1567
78	30	40	635332	3529.98	DFT-s-OFDM QPSK	50@25	25.31	22.01	0.1589
78	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@1	25.44	22.14	0.1637
78	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@104	25.31	22.01	0.1589
78	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	50@25	24.34	21.04	0.1271
78	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@1	24.44	21.14	0.1300
78	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@104	24.22	20.92	0.1236
78	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	50@25	22.81	19.51	0.0893
78	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	1@1	22.82	19.52	0.0895
78	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	1@104	22.57	19.27	0.0845
78	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	50@25	20.81	17.51	0.0564
78	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	1@1	20.92	17.62	0.0578
78	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	1@104	20.85	17.55	0.0569
78	30	40	635332	3529.98	CP-OFDM QPSK	53@26	23.79	20.49	0.1119
78	30	40	635332	3529.98	CP-OFDM QPSK	1@1	23.94	20.64	0.1159

78	30	40	635332	3529.98	CP-OFDM QPSK	1@104	23.81	20.51	0.1125
78	30	50	631668	3475.02	DFT-s- OFDM PI/2 BPSK	64@32	25.18	21.88	0.1542
78	30	50	631668	3475.02	DFT-s- OFDM PI/2 BPSK	1@1	25.08	21.78	0.1507
78	30	50	631668	3475.02	DFT-s- OFDM PI/2 BPSK	1@131	25.04	21.74	0.1493
78	30	50	631668	3475.02	DFT-s- OFDM QPSK	64@32	25.15	21.85	0.1531
78	30	50	631668	3475.02	DFT-s- OFDM QPSK	1@1	25.1	21.8	0.1514
78	30	50	631668	3475.02	DFT-s- OFDM QPSK	1@131	25.14	21.84	0.1528
78	30	50	631668	3475.02	DFT-s- OFDM 16 QAM	64@32	24.12	20.82	0.1208
78	30	50	631668	3475.02	DFT-s- OFDM 16 QAM	1@1	23.94	20.64	0.1159
78	30	50	631668	3475.02	DFT-s- OFDM 16 QAM	1@131	24.06	20.76	0.1191
78	30	50	631668	3475.02	DFT-s- OFDM 64 QAM	64@32	22.63	19.33	0.0857
78	30	50	631668	3475.02	DFT-s- OFDM 64 QAM	1@1	22.69	19.39	0.0869
78	30	50	631668	3475.02	DFT-s- OFDM 64 QAM	1@131	22.66	19.36	0.0863
78	30	50	631668	3475.02	DFT-s- OFDM 256 QAM	64@32	20.66	17.36	0.0545
78	30	50	631668	3475.02	DFT-s- OFDM 256 QAM	1@1	20.64	17.34	0.0542
78	30	50	631668	3475.02	DFT-s- OFDM 256 QAM	1@131	20.62	17.32	0.0540
78	30	50	631668	3475.02	CP-OFDM QPSK	67@33	23.64	20.34	0.1081
78	30	50	631668	3475.02	CP-OFDM QPSK	1@1	23.63	20.33	0.1079
78	30	50	631668	3475.02	CP-OFDM QPSK	1@131	23.6	20.3	0.1072
78	30	50	633334	3500.01	DFT-s- OFDM PI/2 BPSK	64@32	25.25	21.95	0.1567
78	30	50	633334	3500.01	DFT-s- OFDM PI/2 BPSK	1@1	25.08	21.78	0.1507
78	30	50	633334	3500.01	DFT-s- OFDM PI/2 BPSK	1@131	24.99	21.69	0.1476
78	30	50	633334	3500.01	DFT-s- OFDM QPSK	64@32	25.22	21.92	0.1556
78	30	50	633334	3500.01	DFT-s- OFDM QPSK	1@1	25.13	21.83	0.1524

78	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@131	25.02	21.72	0.1486
78	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	64@32	24.16	20.86	0.1219
78	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.05	20.75	0.1189
78	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@131	23.94	20.64	0.1159
78	30	50	633334	3500.01	DFT-s-OFDM 64 QAM	64@32	22.81	19.51	0.0893
78	30	50	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	22.72	19.42	0.0875
78	30	50	633334	3500.01	DFT-s-OFDM 64 QAM	1@131	22.6	19.3	0.0851
78	30	50	633334	3500.01	DFT-s-OFDM 256 QAM	64@32	20.7	17.4	0.0550
78	30	50	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	20.75	17.45	0.0556
78	30	50	633334	3500.01	DFT-s-OFDM 256 QAM	1@131	20.58	17.28	0.0535
78	30	50	633334	3500.01	CP-OFDM QPSK	67@33	23.77	20.47	0.1114
78	30	50	633334	3500.01	CP-OFDM QPSK	1@1	23.66	20.36	0.1086
78	30	50	633334	3500.01	CP-OFDM QPSK	1@131	23.55	20.25	0.1059
78	30	50	635000	3525	DFT-s-OFDM PI/2 BPSK	64@32	25.14	21.84	0.1528
78	30	50	635000	3525	DFT-s-OFDM PI/2 BPSK	1@1	25.15	21.85	0.1531
78	30	50	635000	3525	DFT-s-OFDM PI/2 BPSK	1@131	25	21.7	0.1479
78	30	50	635000	3525	DFT-s-OFDM QPSK	64@32	25.15	21.85	0.1531
78	30	50	635000	3525	DFT-s-OFDM QPSK	1@1	25.18	21.88	0.1542
78	30	50	635000	3525	DFT-s-OFDM QPSK	1@131	25.02	21.72	0.1486
78	30	50	635000	3525	DFT-s-OFDM 16 QAM	64@32	24.16	20.86	0.1219
78	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@1	24.01	20.71	0.1178
78	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@131	23.78	20.48	0.1117
78	30	50	635000	3525	DFT-s-OFDM 64 QAM	64@32	22.72	19.42	0.0875
78	30	50	635000	3525	DFT-s-OFDM 64 QAM	1@1	22.67	19.37	0.0865

QAM									
78	30	50	635000	3525	DFT-s-OFDM 64 QAM	1@131	22.51	19.21	0.0834
78	30	50	635000	3525	DFT-s-OFDM 256 QAM	64@32	20.68	17.38	0.0547
78	30	50	635000	3525	DFT-s-OFDM 256 QAM	1@1	20.76	17.46	0.0557
78	30	50	635000	3525	DFT-s-OFDM 256 QAM	1@131	20.57	17.27	0.0533
78	30	50	635000	3525	CP-OFDM QPSK	67@33	23.72	20.42	0.1102
78	30	50	635000	3525	CP-OFDM QPSK	1@1	23.8	20.5	0.1122
78	30	50	635000	3525	CP-OFDM QPSK	1@131	23.56	20.26	0.1062
78	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	81@40	25.21	21.91	0.1552
78	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	1@1	25.12	21.82	0.1521
78	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	1@160	25.07	21.77	0.1503
78	30	60	632000	3480	DFT-s-OFDM QPSK	81@40	25.19	21.89	0.1545
78	30	60	632000	3480	DFT-s-OFDM QPSK	1@1	25.16	21.86	0.1535
78	30	60	632000	3480	DFT-s-OFDM QPSK	1@160	25.06	21.76	0.1500
78	30	60	632000	3480	DFT-s-OFDM 16 QAM	81@40	24.12	20.82	0.1208
78	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@1	24.2	20.9	0.1230
78	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@160	23.99	20.69	0.1172
78	30	60	632000	3480	DFT-s-OFDM 64 QAM	81@40	22.67	19.37	0.0865
78	30	60	632000	3480	DFT-s-OFDM 64 QAM	1@1	22.73	19.43	0.0877
78	30	60	632000	3480	DFT-s-OFDM 64 QAM	1@160	22.6	19.3	0.0851
78	30	60	632000	3480	DFT-s-OFDM 256 QAM	81@40	20.7	17.4	0.0550
78	30	60	632000	3480	DFT-s-OFDM 256 QAM	1@1	20.77	17.47	0.0558
78	30	60	632000	3480	DFT-s-OFDM 256 QAM	1@160	20.73	17.43	0.0553
78	30	60	632000	3480	CP-OFDM QPSK	81@40	23.69	20.39	0.1094

78	30	60	632000	3480	CP-OFDM QPSK	1@1	23.76	20.46	0.1112
78	30	60	632000	3480	CP-OFDM QPSK	1@160	23.62	20.32	0.1076
78	30	60	633334	3500.01	DFT-s- OFDM PI/2 BPSK	81@40	25.18	21.88	0.1542
78	30	60	633334	3500.01	DFT-s- OFDM PI/2 BPSK	1@1	25.13	21.83	0.1524
78	30	60	633334	3500.01	DFT-s- OFDM PI/2 BPSK	1@160	24.99	21.69	0.1476
78	30	60	633334	3500.01	DFT-s- OFDM QPSK	81@40	25.25	21.95	0.1567
78	30	60	633334	3500.01	DFT-s- OFDM QPSK	1@1	25.19	21.89	0.1545
78	30	60	633334	3500.01	DFT-s- OFDM QPSK	1@160	25.03	21.73	0.1489
78	30	60	633334	3500.01	DFT-s- OFDM 16 QAM	81@40	24.15	20.85	0.1216
78	30	60	633334	3500.01	DFT-s- OFDM 16 QAM	1@1	24.09	20.79	0.1199
78	30	60	633334	3500.01	DFT-s- OFDM 16 QAM	1@160	23.87	20.57	0.1140
78	30	60	633334	3500.01	DFT-s- OFDM 64 QAM	81@40	22.77	19.47	0.0885
78	30	60	633334	3500.01	DFT-s- OFDM 64 QAM	1@1	22.71	19.41	0.0873
78	30	60	633334	3500.01	DFT-s- OFDM 64 QAM	1@160	22.55	19.25	0.0841
78	30	60	633334	3500.01	DFT-s- OFDM 256 QAM	81@40	20.73	17.43	0.0553
78	30	60	633334	3500.01	DFT-s- OFDM 256 QAM	1@1	20.68	17.38	0.0547
78	30	60	633334	3500.01	DFT-s- OFDM 256 QAM	1@160	20.53	17.23	0.0528
78	30	60	633334	3500.01	CP-OFDM QPSK	81@40	23.74	20.44	0.1107
78	30	60	633334	3500.01	CP-OFDM QPSK	1@1	23.75	20.45	0.1109
78	30	60	633334	3500.01	CP-OFDM QPSK	1@160	23.56	20.26	0.1062
78	30	60	634666	3519.99	DFT-s- OFDM PI/2 BPSK	81@40	25.18	21.88	0.1542
78	30	60	634666	3519.99	DFT-s- OFDM PI/2 BPSK	1@1	25.3	22	0.1585
78	30	60	634666	3519.99	DFT-s- OFDM PI/2 BPSK	1@160	25.02	21.72	0.1486
78	30	60	634666	3519.99	DFT-s- OFDM QPSK	81@40	25.17	21.87	0.1538

78	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@1	25.32	22.02	0.1592
78	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@160	25.01	21.71	0.1483
78	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	81@40	24.24	20.94	0.1242
78	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@1	24.21	20.91	0.1233
78	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@160	24.06	20.76	0.1191
78	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	81@40	22.75	19.45	0.0881
78	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	1@1	22.79	19.49	0.0889
78	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	1@160	22.55	19.25	0.0841
78	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	81@40	20.75	17.45	0.0556
78	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	1@1	20.8	17.5	0.0562
78	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	1@160	20.6	17.3	0.0537
78	30	60	634666	3519.99	CP-OFDM QPSK	81@40	23.68	20.38	0.1091
78	30	60	634666	3519.99	CP-OFDM QPSK	1@1	23.85	20.55	0.1135
78	30	60	634666	3519.99	CP-OFDM QPSK	1@160	23.56	20.26	0.1062
78	30	70	632334	3485.01	DFT-s-OFDM PI/2 BPSK	90@45	25.08	21.78	0.1507
78	30	70	632334	3485.01	DFT-s-OFDM PI/2 BPSK	1@1	25.05	21.75	0.1496
78	30	70	632334	3485.01	DFT-s-OFDM PI/2 BPSK	1@187	24.89	21.59	0.1442
78	30	70	632334	3485.01	DFT-s-OFDM QPSK	90@45	25	21.7	0.1479
78	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@1	25.08	21.78	0.1507
78	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@187	24.87	21.57	0.1435
78	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	90@45	24.09	20.79	0.1199
78	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@1	24	20.7	0.1175
78	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@187	23.86	20.56	0.1138
78	30	70	632334	3485.01	DFT-s-OFDM 64	90@45	22.47	19.17	0.0826

QAM									
78	30	70	632334	3485.01	DFT-s-OFDM 64 QAM	1@1	22.55	19.25	0.0841
78	30	70	632334	3485.01	DFT-s-OFDM 64 QAM	1@187	22.32	19.02	0.0798
78	30	70	632334	3485.01	DFT-s-OFDM 256 QAM	90@45	20.56	17.26	0.0532
78	30	70	632334	3485.01	DFT-s-OFDM 256 QAM	1@1	20.45	17.15	0.0519
78	30	70	632334	3485.01	DFT-s-OFDM 256 QAM	1@187	20.34	17.04	0.0506
78	30	70	632334	3485.01	CP-OFDM QPSK	95@47	23.53	20.23	0.1054
78	30	70	632334	3485.01	CP-OFDM QPSK	1@1	23.62	20.32	0.1076
78	30	70	632334	3485.01	CP-OFDM QPSK	1@187	23.47	20.17	0.1040
78	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	90@45	25.08	21.78	0.1507
78	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.08	21.78	0.1507
78	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@187	24.86	21.56	0.1432
78	30	70	633334	3500.01	DFT-s-OFDM QPSK	90@45	25.13	21.83	0.1524
78	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.08	21.78	0.1507
78	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@187	24.84	21.54	0.1426
78	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	90@45	24.11	20.81	0.1205
78	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.97	20.67	0.1167
78	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@187	23.86	20.56	0.1138
78	30	70	633334	3500.01	DFT-s-OFDM 64 QAM	90@45	22.61	19.31	0.0853
78	30	70	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	22.66	19.36	0.0863
78	30	70	633334	3500.01	DFT-s-OFDM 64 QAM	1@187	22.49	19.19	0.0830
78	30	70	633334	3500.01	DFT-s-OFDM 256 QAM	90@45	20.64	17.34	0.0542
78	30	70	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	20.6	17.3	0.0537
78	30	70	633334	3500.01	DFT-s-OFDM 256 QAM	1@187	20.46	17.16	0.0520

78	30	70	633334	3500.01	CP-OFDM QPSK	95@47	23.55	20.25	0.1059
78	30	70	633334	3500.01	CP-OFDM QPSK	1@1	23.57	20.27	0.1064
78	30	70	633334	3500.01	CP-OFDM QPSK	1@187	23.48	20.18	0.1042
78	30	70	634332	3514.98	DFT-s- OFDM PI/2 BPSK	90@45	25.11	21.81	0.1517
78	30	70	634332	3514.98	DFT-s- OFDM PI/2 BPSK	1@1	25.14	21.84	0.1528
78	30	70	634332	3514.98	DFT-s- OFDM PI/2 BPSK	1@187	24.83	21.53	0.1422
78	30	70	634332	3514.98	DFT-s- OFDM QPSK	90@45	25.09	21.79	0.1510
78	30	70	634332	3514.98	DFT-s- OFDM QPSK	1@1	25.15	21.85	0.1531
78	30	70	634332	3514.98	DFT-s- OFDM QPSK	1@187	24.91	21.61	0.1449
78	30	70	634332	3514.98	DFT-s- OFDM 16 QAM	90@45	24.11	20.81	0.1205
78	30	70	634332	3514.98	DFT-s- OFDM 16 QAM	1@1	24.17	20.87	0.1222
78	30	70	634332	3514.98	DFT-s- OFDM 16 QAM	1@187	23.72	20.42	0.1102
78	30	70	634332	3514.98	DFT-s- OFDM 64 QAM	90@45	22.63	19.33	0.0857
78	30	70	634332	3514.98	DFT-s- OFDM 64 QAM	1@1	22.79	19.49	0.0889
78	30	70	634332	3514.98	DFT-s- OFDM 64 QAM	1@187	22.55	19.25	0.0841
78	30	70	634332	3514.98	DFT-s- OFDM 256 QAM	90@45	20.68	17.38	0.0547
78	30	70	634332	3514.98	DFT-s- OFDM 256 QAM	1@1	20.65	17.35	0.0543
78	30	70	634332	3514.98	DFT-s- OFDM 256 QAM	1@187	20.42	17.12	0.0515
78	30	70	634332	3514.98	CP-OFDM QPSK	95@47	23.59	20.29	0.1069
78	30	70	634332	3514.98	CP-OFDM QPSK	1@1	23.66	20.36	0.1086
78	30	70	634332	3514.98	CP-OFDM QPSK	1@187	23.48	20.18	0.1042
78	30	80	632668	3490.02	DFT-s- OFDM PI/2 BPSK	108@54	25.06	21.76	0.1500
78	30	80	632668	3490.02	DFT-s- OFDM PI/2 BPSK	1@1	25.09	21.79	0.1510
78	30	80	632668	3490.02	DFT-s- OFDM PI/2 BPSK	1@215	24.85	21.55	0.1429

78	30	80	632668	3490.02	DFT-s-OFDM QPSK	108@54	25.05	21.75	0.1496
78	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@1	25.03	21.73	0.1489
78	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@215	24.91	21.61	0.1449
78	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	108@54	24.11	20.81	0.1205
78	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@1	23.94	20.64	0.1159
78	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@215	23.89	20.59	0.1146
78	30	80	632668	3490.02	DFT-s-OFDM 64 QAM	108@54	22.63	19.33	0.0857
78	30	80	632668	3490.02	DFT-s-OFDM 64 QAM	1@1	22.58	19.28	0.0847
78	30	80	632668	3490.02	DFT-s-OFDM 64 QAM	1@215	22.5	19.2	0.0832
78	30	80	632668	3490.02	DFT-s-OFDM 256 QAM	108@54	20.66	17.36	0.0545
78	30	80	632668	3490.02	DFT-s-OFDM 256 QAM	1@1	20.6	17.3	0.0537
78	30	80	632668	3490.02	DFT-s-OFDM 256 QAM	1@215	20.43	17.13	0.0516
78	30	80	632668	3490.02	CP-OFDM QPSK	109@54	23.55	20.25	0.1059
78	30	80	632668	3490.02	CP-OFDM QPSK	1@1	23.59	20.29	0.1069
78	30	80	632668	3490.02	CP-OFDM QPSK	1@215	23.41	20.11	0.1026
78	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	108@54	25.07	21.77	0.1503
78	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.09	21.79	0.1510
78	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@215	24.85	21.55	0.1429
78	30	80	633334	3500.01	DFT-s-OFDM QPSK	108@54	25.08	21.78	0.1507
78	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.09	21.79	0.1510
78	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@215	24.87	21.57	0.1435
78	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	108@54	24.11	20.81	0.1205
78	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.89	20.59	0.1146
78	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@215	23.7	20.4	0.1096

QAM										
78	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	108@54	22.61	19.31	0.0853	
78	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	22.4	19.1	0.0813	
78	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	1@215	22.08	18.78	0.0755	
78	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	108@54	20.57	17.27	0.0533	
78	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	20.57	17.27	0.0533	
78	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	1@215	20.43	17.13	0.0516	
78	30	80	633334	3500.01	CP-OFDM QPSK	109@54	23.53	20.23	0.1054	
78	30	80	633334	3500.01	CP-OFDM QPSK	1@1	23.63	20.33	0.1079	
78	30	80	633334	3500.01	CP-OFDM QPSK	1@215	23.42	20.12	0.1028	
78	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	108@54	25.06	21.76	0.1500	
78	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	1@1	25.1	21.8	0.1514	
78	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	1@215	24.79	21.49	0.1409	
78	30	80	634000	3510	DFT-s-OFDM QPSK	108@54	25.01	21.71	0.1483	
78	30	80	634000	3510	DFT-s-OFDM QPSK	1@1	25.04	21.74	0.1493	
78	30	80	634000	3510	DFT-s-OFDM QPSK	1@215	24.81	21.51	0.1416	
78	30	80	634000	3510	DFT-s-OFDM 16 QAM	108@54	23.98	20.68	0.1169	
78	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@1	23.98	20.68	0.1169	
78	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@215	23.74	20.44	0.1107	
78	30	80	634000	3510	DFT-s-OFDM 64 QAM	108@54	22.57	19.27	0.0845	
78	30	80	634000	3510	DFT-s-OFDM 64 QAM	1@1	22.33	19.03	0.0800	
78	30	80	634000	3510	DFT-s-OFDM 64 QAM	1@215	22.15	18.85	0.0767	
78	30	80	634000	3510	DFT-s-OFDM 256 QAM	108@54	20.53	17.23	0.0528	
78	30	80	634000	3510	DFT-s-OFDM 256 QAM	1@1	20.44	17.14	0.0518	

78	30	80	634000	3510	DFT-s-OFDM 256 QAM	1@215	20.34	17.04	0.0506
78	30	80	634000	3510	CP-OFDM QPSK	109@54	23.56	20.26	0.1062
78	30	80	634000	3510	CP-OFDM QPSK	1@1	23.58	20.28	0.1067
78	30	80	634000	3510	CP-OFDM QPSK	1@215	23.32	20.02	0.1005
78	30	90	633000	3495	DFT-s-OFDM PI/2 BPSK	120@60	25.14	21.84	0.1528
78	30	90	633000	3495	DFT-s-OFDM PI/2 BPSK	1@1	25.05	21.75	0.1496
78	30	90	633000	3495	DFT-s-OFDM PI/2 BPSK	1@243	24.83	21.53	0.1422
78	30	90	633000	3495	DFT-s-OFDM QPSK	120@60	24.98	21.68	0.1472
78	30	90	633000	3495	DFT-s-OFDM QPSK	1@1	25.03	21.73	0.1489
78	30	90	633000	3495	DFT-s-OFDM QPSK	1@243	24.8	21.5	0.1413
78	30	90	633000	3495	DFT-s-OFDM 16 QAM	120@60	24.04	20.74	0.1186
78	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@1	23.9	20.6	0.1148
78	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@243	23.72	20.42	0.1102
78	30	90	633000	3495	DFT-s-OFDM 64 QAM	120@60	22.56	19.26	0.0843
78	30	90	633000	3495	DFT-s-OFDM 64 QAM	1@1	22.72	19.42	0.0875
78	30	90	633000	3495	DFT-s-OFDM 64 QAM	1@243	22.45	19.15	0.0822
78	30	90	633000	3495	DFT-s-OFDM 256 QAM	120@60	20.53	17.23	0.0528
78	30	90	633000	3495	DFT-s-OFDM 256 QAM	1@1	20.56	17.26	0.0532
78	30	90	633000	3495	DFT-s-OFDM 256 QAM	1@243	20.34	17.04	0.0506
78	30	90	633000	3495	CP-OFDM QPSK	123@61	23.55	20.25	0.1059
78	30	90	633000	3495	CP-OFDM QPSK	1@1	23.5	20.2	0.1047
78	30	90	633000	3495	CP-OFDM QPSK	1@243	23.27	19.97	0.0993
78	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	120@60	25.14	21.84	0.1528
78	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.03	21.73	0.1489

78	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@243	24.84	21.54	0.1426
78	30	90	633334	3500.01	DFT-s-OFDM QPSK	120@60	25.02	21.72	0.1486
78	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.93	21.63	0.1455
78	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@243	24.83	21.53	0.1422
78	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	120@60	24.07	20.77	0.1194
78	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.85	20.55	0.1135
78	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@243	23.74	20.44	0.1107
78	30	90	633334	3500.01	DFT-s-OFDM 64 QAM	120@60	22.56	19.26	0.0843
78	30	90	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	22.64	19.34	0.0859
78	30	90	633334	3500.01	DFT-s-OFDM 64 QAM	1@243	22.53	19.23	0.0838
78	30	90	633334	3500.01	DFT-s-OFDM 256 QAM	120@60	20.49	17.19	0.0524
78	30	90	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	20.42	17.12	0.0515
78	30	90	633334	3500.01	DFT-s-OFDM 256 QAM	1@243	20.39	17.09	0.0512
78	30	90	633334	3500.01	CP-OFDM QPSK	123@61	23.54	20.24	0.1057
78	30	90	633334	3500.01	CP-OFDM QPSK	1@1	23.44	20.14	0.1033
78	30	90	633334	3500.01	CP-OFDM QPSK	1@243	23.35	20.05	0.1012
78	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	120@60	25.09	21.79	0.1510
78	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	1@1	24.97	21.67	0.1469
78	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	1@243	24.85	21.55	0.1429
78	30	90	633666	3504.99	DFT-s-OFDM QPSK	120@60	25.02	21.72	0.1486
78	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@1	24.97	21.67	0.1469
78	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@243	24.86	21.56	0.1432
78	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	120@60	24.09	20.79	0.1199
78	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@1	23.86	20.56	0.1138

QAM									
78	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@243	23.79	20.49	0.1119
78	30	90	633666	3504.99	DFT-s-OFDM 64 QAM	120@60	22.58	19.28	0.0847
78	30	90	633666	3504.99	DFT-s-OFDM 64 QAM	1@1	22.59	19.29	0.0849
78	30	90	633666	3504.99	DFT-s-OFDM 64 QAM	1@243	22.57	19.27	0.0845
78	30	90	633666	3504.99	DFT-s-OFDM 256 QAM	120@60	20.59	17.29	0.0536
78	30	90	633666	3504.99	DFT-s-OFDM 256 QAM	1@1	20.49	17.19	0.0524
78	30	90	633666	3504.99	DFT-s-OFDM 256 QAM	1@243	20.36	17.06	0.0508
78	30	90	633666	3504.99	CP-OFDM QPSK	123@61	23.57	20.27	0.1064
78	30	90	633666	3504.99	CP-OFDM QPSK	1@1	23.52	20.22	0.1052
78	30	90	633666	3504.99	CP-OFDM QPSK	1@243	23.35	20.05	0.1012
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	25.06	21.76	0.1500
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.02	21.72	0.1486
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@271	24.84	21.54	0.1426
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@67	25.02	21.72	0.1486
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.95	21.65	0.1462
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@271	24.87	21.57	0.1435
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	135@67	24.04	20.74	0.1186
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.99	20.69	0.1172
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@271	23.79	20.49	0.1119
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	135@67	22.56	19.26	0.0843
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	22.53	19.23	0.0838
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@271	22.48	19.18	0.0828
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	135@67	20.67	17.37	0.0546

78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	20.55	17.25	0.0531
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@271	20.35	17.05	0.0507
78	30	100	633334	3500.01	CP-OFDM QPSK	137@68	23.55	20.25	0.1059
78	30	100	633334	3500.01	CP-OFDM QPSK	1@1	23.45	20.15	0.1035
78	30	100	633334	3500.01	CP-OFDM QPSK	1@271	23.32	20.02	0.1005



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

EN-DC_41A_n77A / LTE 10MHz + NR 100MHz / DFTs OFDM-QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n77 Middle	6999.96	-54.74	-13	-41.74	-79.01	-60.30	7.14	12.70	H
	10499.94	-50.01	-13	-37.01	-79.94	-53.31	8.30	11.60	H
	13999.92	-46.07	-13	-33.07	-79.04	-47.59	10.48	12.00	H
	6999.96	-54.56	-13	-41.56	-79.28	-60.12	7.14	12.70	V
	10499.94	-50.48	-13	-37.48	-79.88	-53.78	8.30	11.60	V
	13999.92	-46.53	-13	-33.53	-79.16	-48.05	10.48	12.00	V
LTE Band41 Middle	5186	-61.07	-25	-36.07	-80.51	-67.82	5.85	12.60	H
	7779	-54.62	-25	-29.62	-79.53	-60.42	7.30	13.10	H
	10372	-49.92	-25	-24.92	-79.85	-53.07	8.35	11.50	H
	5186	-60.77	-25	-35.77	-80.5	-67.52	5.85	12.60	V
	7779	-54.53	-25	-29.53	-79.27	-60.33	7.30	13.10	V
	10372	-50.53	-25	-25.53	-79.63	-53.68	8.35	11.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_41A_n78A / LTE 10MHz + NR 100MHz / DFTs OFDM-QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n78 Middle	6981.78	-55.21	-13	-42.21	-79.34	-60.77	7.14	12.70	H
	10472.67	-50.13	-13	-37.13	-80.06	-53.43	8.30	11.60	H
	13963.56	-46.00	-13	-33.00	-78.89	-47.52	10.48	12.00	H
	6981.78	-54.50	-13	-41.50	-79.09	-60.06	7.14	12.70	V
	10472.67	-50.20	-13	-37.20	-79.52	-53.50	8.30	11.60	V
	13963.56	-45.98	-13	-32.98	-78.48	-47.50	10.48	12.00	V
LTE Band41 Middle	5168	-61.49	-25	-36.49	-80.99	-67.05	7.14	12.70	H
	7752	-54.33	-25	-29.33	-79.17	-57.63	8.30	11.60	H
	10336	-49.92	-25	-24.92	-79.85	-51.44	10.48	12.00	H
	5168	-60.83	-25	-35.83	-80.6	-66.39	7.14	12.70	V
	7752	-54.30	-25	-29.30	-78.99	-57.60	8.30	11.60	V
	10336	-50.65	-25	-25.65	-79.67	-52.17	10.48	12.00	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



Appendix D. Reference Report

Please refer to Sporton report number FG180409E which is issued separately.