



RF TEST REPORT

Applicant ZTE Corporation
FCC ID SRQ-A2023PG
Product 5G NR Multi model smart phone
Model ZTE A2023PG
Report No. R2205A0428-R10
Issue Date June 10, 2022

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 2 (2021)/ FCC CFR47 Part 27C (2021)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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Summary of Measurement Results

Number	Test Case	Clause in FCC rules	Verdict
1	RF Power Output and Effective Isotropic Radiated Power	2.1046 / 27.50(k) (3) / 27.50(j) (3)	PASS
2	Occupied Bandwidth	2.1049	PASS
3	Band Edge Compliance	27.53(n) (2) / 27.53(l) (2)	PASS
4	Peak-to-Average Power Ratio	27.50(d)/KDB971168 D01(5.7)	PASS
5	Frequency Stability	2.1055 / 27.54	PASS
6	Spurious Emissions at Antenna Terminals	27.53(n) (2) / 27.53(l) (2)	PASS
7	Radiates Spurious Emission	27.53(n) (2) / 27.53(l) (2)	PASS

Date of Testing: March 18, 2022 and May 13, 2022
Date of Sample Received: March 17, 2022

Note: PASS: The EUT complies with the essential requirements in the standard.
FAIL: The EUT does not comply with the essential requirements in the standard.
All indications of Pass/Fail in this report are opinions expressed by TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.

According to TCB workshop October, 2014 RF Exposure Procedures Update:

a) For NR n78 subset 1 and NR n78 subset 2 (Frequency range: 3450 ~ 3550 and 3700 ~ 3800) is covered by NR n77 subset 1 and NR n78 subset 2 (Frequency range 3450 ~ 3550MHz and 3700 ~ 3980) due to similar frequency range, same maximum tune up limit and same channel bandwidth.

There is no test in this report and the data of NR n78 please refer to the report (Report No.: R2203A0249-R3V2).



1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **TA technology (shanghai) co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2. Test facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

A2LA (Certificate Number: 3857.01)

TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform measurement.

1.3 Testing Location

Company: TA Technology (Shanghai) Co., Ltd.
Address: No.145, Jintang Rd, Tangzhen Industry Park, Pudong Shanghai, China
City: Shanghai
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2 General Description of Equipment under Test

2.1 Applicant and Manufacturer Information

Applicant	ZTE Corporation
Applicant address	ZTE Plaza, #55 Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, China
Manufacturer	ZTE Corporation
Manufacturer address	ZTE Plaza, #55 Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, China

2.2 General information

EUT Description			
Model	ZTE A2023PG		
SN	327324440042		
Hardware Version	ZTE A2023PGHW1.0		
Software Version	MyOS12.0.2_A2023PG_GLB		
Power Supply	Battery / AC adapter		
Antenna Type	Internal Antenna		
Antenna Gain	Band	Antenna	Gain
	NR n77	Antenna 5	-2.30dBi
		Antenna 10	-3.30dBi
	NR n78	Antenna 5	-2.30dBi
Antenna 10		-3.30dBi	
Test Mode(s)	SA Band	NR n77/ NR n78	
	NSA Band	DC_2A-n77A/DC_5A-n77A/ DC_2A-n78A/DC_7A-n78A/DC_28A-n78A	
Test Modulation	(NR) CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM; DFT-s OFDM: PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM		
Maximum E.I.R.P./ E.R.P.	NR n77 subset 1	20.03dBm	
	DC_2A-n77A subset 1	20.16dBm	
	NR n77 subset 2	20.21dBm	
	DC_2A-n77A subset 2	20.56dBm	
Rated Power Supply Voltage	3.89V		
Operating Voltage	Minimum: 3.70V Maximum: 4.45V		
Operating Temperature	Lowest: -10°C Highest: +40°C		
Testing Temperature	Lowest: -30°C Highest: +50°C		
Operating Frequency Range(s)	Mode	Tx (MHz)	Rx (MHz)
	NR n77 subset 1	3450 ~ 3550	3450 ~ 3550



	NR n77 subset 2	3700 ~ 3980	3700 ~ 3980
	NR n78 subset 1	3450 ~ 3550	3450 ~ 3550
	NR n78 subset 2	3700 ~ 3800	3700 ~ 3800
EUT Accessory			
Adapter	Manufacturer: ShenZhen KunXing Technology Co., Ltd. Model: STC-A59152050AC-Z		
Battery	Manufacturer: Zhuhai Cosmx Battery Co., Ltd. Model: Li3949T44P8h806459		
Earphone 1	Manufacturer: JUWEI ELECTRONICS CO.,LTD Model: JWEP1092-Z01		
Earphone 2	Manufacturer: ShenZhen FDC Electronic Co.,Ltd Model: DEM-9A		
USB Cable 1	Manufacturer: King Power Electronics Co., Ltd Model: TC20-TC20-W-100-M-6A-HSF		
USB Cable 2	Manufacturer: Luxshare-ICT Co., Ltd Model: TC20-TC20-W-100-M-6A-HSF		
Type-C to 3.5 mm Headphone Jack Adapter	Manufacturer: HUIZHOU JUWEI ELECTRONICS CO. ,LTD Model: HMZ24		
<p>Note: 1. The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant.</p> <p>2. There is more than one USB cable/ Earphone, each one should be applied throughout the compliance test respectively, and however, only the worst case (USB cable 1) will be recorded in this report.</p>			



3 Applied Standards

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

Test standards:

FCC CFR47 Part 27C (2021)

FCC CFR47 Part 2 (2021)

Reference standard:

ANSI C63.26-2015

KDB 971168 D01 Power Meas License Digital Systems v03r01



4 Test Configuration

There is more than one SIM card slot, each one should be applied throughout the compliance test respectively, and however, only the worst case (SIM 1) will be recorded in this report

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes. EUT stand-up position (Z axis), lie-down position (X, Y axis). Receiver antenna polarization (horizontal and vertical), the worst emission was found in position (Z axis, horizontal polarization for ENDC, X axis, horizontal polarization for NR) and the worst case was recorded.

All mode and data rates and positions and RB size and modulations were investigated.

Subsequently, only the worst case emissions are reported.

The following testing in NR is set based on the maximum RF Output Power.

The following testing in different Bandwidth is set to detail in the following table:

Test modes are chosen to be reported as the worst case configuration below for NR n77 subset 1/
 DC_2A-n77A subset 1/ DC_5A-n77A subset 1/NR n77 subset 2/ DC_2A-n77A subset 2/
 DC_5A-n77A subset 1

Test items	Mode	Bandwidth (MHz)					Modulation					RB			Test Channel		
		20	40	60	80	100	PI/2 BPSK	QPSK	16 QAM	64 QAM	256 QAM	1	50%	100%	L	M	H
RF Power	NR n77 subset 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Output and Effective Isotropic Radiated Power	DC_2A-n77A subset 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	DC_5A-n77A subset 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	NR n77 subset 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Occupied Bandwidth	DC_2A-n77A subset 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	DC_5A-n77A subset 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	NR n77 subset 1	-	-	-	-	0	0	0	0	0	0	0	-	0	0	0	0
Band Edge Compliance	DC_2A-n77A subset 1	-	-	-	-	0	0	0	0	0	0	0	-	0	0	0	0
	DC_5A-n77A subset 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	NR n77 subset 2	-	-	-	-	0	0	0	0	0	0	0	-	0	0	0	0
	DC_2A-n77A subset 2	-	-	-	-	0	0	0	0	0	0	0	-	0	0	0	0
	DC_5A-n77A subset 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Peak-to-Average	NR n77 subset 1	-	-	-	-	0	0	0	0	0	0	-	0	0	0	0
	DC_2A-n77A subset 1	-	-	-	-	0	0	0	0	0	0	-	0	0	0	0	



Power Ratio	DC_5A-n77A subset 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	NR n77 subset 2	-	-	-	-	O	O	O	O	O	O	-	-	O	O	O
	DC_2A-n77A subset 2	-	-	-	-	O	O	O	O	O	O	-	-	O	O	O
	DC_5A-n77A subset 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Frequency Stability	NR n77 subset 1	O	O	O	O	O	O	O	O	O	O	-	-	-	O	-
	DC_2A-n77A subset 1	O	O	O	O	O	O	O	O	O	O	-	-	-	O	-
	DC_5A-n77A subset 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	NR n77 subset 2	O	O	O	O	O	O	O	O	O	O	-	-	-	O	-
	DC_2A-n77A subset 2	O	O	O	O	O	O	O	O	O	O	-	-	-	O	-
	DC_5A-n77A subset 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spurious Emissions at Antenna Terminals	NR n77 subset 1	-	-	-	-	O	O	O	O	O	-	O	-	-	-	O
	DC_2A-n77A subset 1	-	-	-	-	O	O	O	O	O	-	O	-	-	-	O
	DC_5A-n77A subset 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	NR n77 subset 2	-	-	-	-	O	O	O	O	O	-	O	-	-	-	O
	DC_2A-n77A subset 2	-	-	-	-	O	O	O	O	O	-	O	-	-	-	O
	DC_5A-n77A subset 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radiates Spurious Emission	NR n77 subset 1	O	-	-	-	O	-	-	-	-	-	O	-	-	-	O
	DC_2A-n77A subset 1	O	-	-	-	O	-	-	-	-	-	O	-	-	-	O
	DC_5A-n77A subset 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	NR n77 subset 2	O	-	-	-	O	-	-	-	-	-	O	-	-	-	O
	DC_2A-n77A subset 2	O	-	O	-	O	-	-	-	-	-	O	-	-	-	O
	DC_5A-n77A subset 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: 1. The mark "O" means that this configuration is chosen for testing.
 2. The mark "-" means that this configuration is not testing.
 3. Sub 6GHz operates using 15kHz Subcarrier Spacing with both CP-OFDM and DFT-s OFDM waveforms. The band supports PI/2 BPSK ,QPSK, 16QAM, 64QAM, and 256QAM modulation. The test data provided in this report represents the worst case configurations.

5 Test Case

5.1 RF Power Output and Effective Isotropic Radiated Power

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Methods of Measurement

During the process of the testing, The EUT was connected to the Base Station Simulator with a known loss. The EUT is controlled by the Base Station Simulator test set to ensure max power transmission with proper modulation.

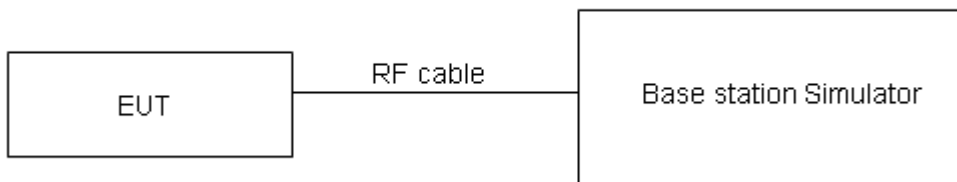
ERP can then be calculated as follows:

$$\text{EIRP (dBm)} = \text{Output Power (dBm)} - \text{Losses (dB)} + \text{Antenna Gain (dBi)}$$

where:dBd refers to gain relative to an ideal dipole.

$$\text{EIRP (dBm)} = \text{ERP (dBm)} + 2.15 \text{ (dB.)}$$

Test Setup



Limits

No specific RF power output requirements in part 2.1046.

Rule Part 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.

Rule Part 27.50(j) (3) Mobile and portable stations are limited to 1 Watt EIRP. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U=0.4$ dB for RF power output, $k = 2$, $U= 1.19$ dB for ERP/EIRP.



Test Results

Refer to the section 6.1 of this report for test data.

5.2 Occupied Bandwidth

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

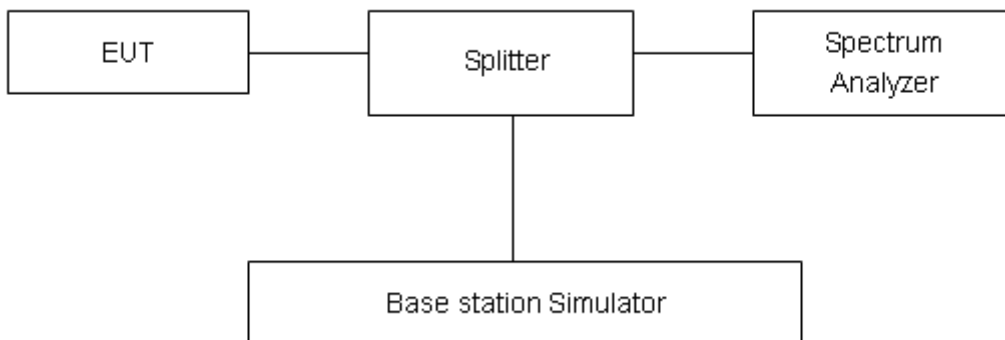
Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The occupied bandwidth is measured using spectrum analyzer.

RBW is set to $\geq 1\%EBW$, VBW is set to 3x RBW.

99% power and -26dBc occupied bandwidths are recorded. Spectrum analyzer plots are included on the following pages.

Test Setup



Limits

No specific occupied bandwidth requirements in part 2.1049.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U=624\text{Hz}$.

Test Results

Refer to the section 6.2 of this report for test data.

5.3 Band Edge Compliance

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The band edge of the lowest and highest channels were measured.

The testing follows KDB 971168 D01 v03r01 Section 6.0

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

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

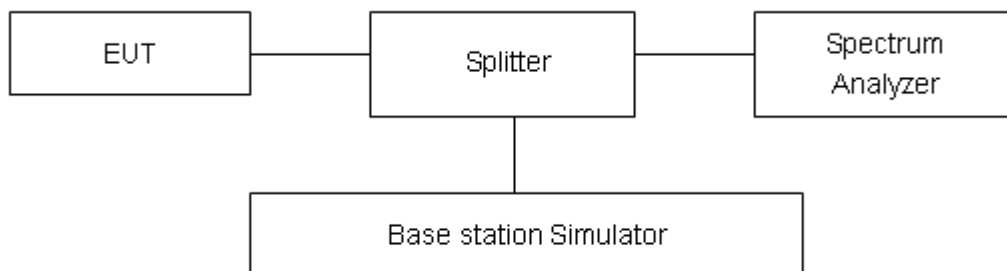
RBW is set to $\geq 1\%EBW$, VBW is set to 3x RBW on spectrum analyzer.

Set spectrum analyzer with RMS detector.

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

Checked that all the results comply with the emission limit line.

Test Setup



Limits

Rule Part 27.53(n) (2) For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (n)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

Rule Part 27.53(l) (2) For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (l)(2) is based on the use of measurement instrumentation employing a resolution



bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U=0.684\text{dB}$.

Test Results

Refer to the section 6.3 of this report for test data.

5.4 Peak-to-Average Power Ratio (PAPR)

Ambient condition

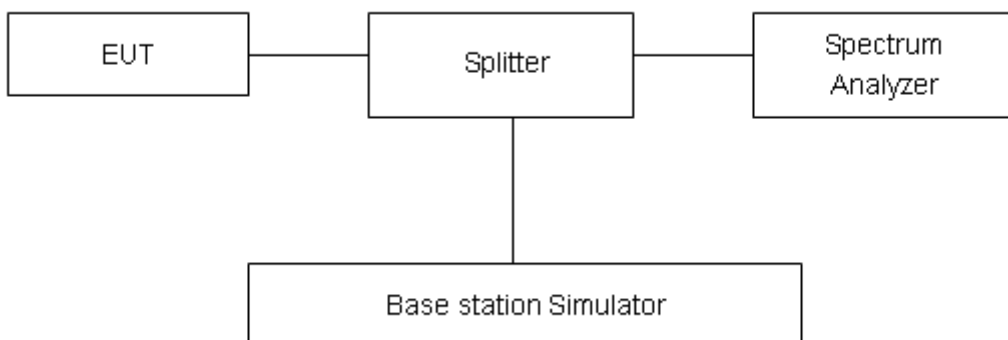
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Methods of Measurement

Measure the total peak power and record as PPK. And measure the total average power and record as PAvg. Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from:

$$PAPR (dB) = PPK (dBm) - PAvg (dBm).$$

Test Setup



Limits

Rule Part 27.50(d)(5) Equipment employed must be authorized in accordance with the provisions of 24.51. Power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (d)(6) of this section. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 0.4$ dB.

Test Results

Refer to the section 6.4 of this report for test data.

5.5 Frequency Stability

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

Frequency Stability (Temperature Variation)

The temperature inside the climate chamber is varied from -30°C to +50°C in 10°C step size,

(1) With all power removed, the temperature was decreased to 0°C and permitted to stabilize for three hours.

(2) Measure the carrier frequency with the test equipment in a “call mode”. These measurements should be made within 1 minute of powering up the mobile station, to prevent significant self warming.

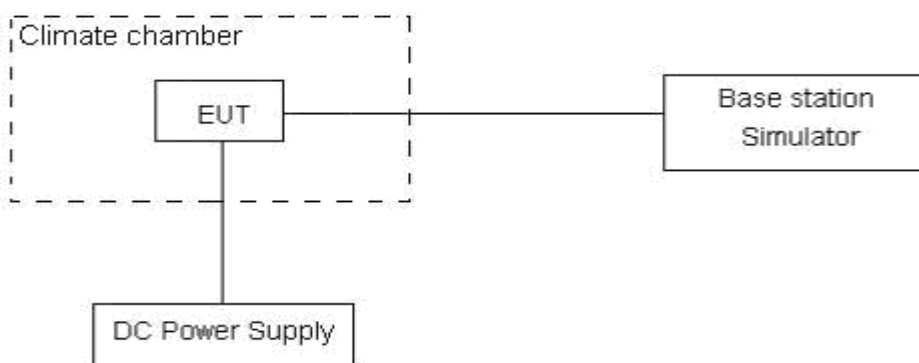
(3) Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1.5 hours at each temperature, un-powered, before making measurements. Frequency Stability (Voltage Variation)

The frequency stability shall be measured with variation of primary supply voltage as follows:

Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

This transceiver is specified to operate with an input voltage of between 3.70 V and 4.45 V, with a nominal voltage of 3.89V.

Test setup



Limits

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 99.75% confidence level for the normal distribution is with the coverage factor $k = 3, U=0.01\text{ppm}$.

Test Results

Refer to the section 6.5 of this report for test data.

5.6 Spurious Emissions at Antenna Terminals

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The measurement is carried out using a spectrum analyzer. The spectrum analyzer scans from 9kHz to the 10th harmonic of the carrier. The peak detector is used.

RBW is set to 100kHz, VBW is set to 300kHz for 30MHz~1GHz

RBW is set to 1MHz, VBW is set to 3MHz for above 1GHz, Sweep is set to ATUO.

RBW is set to 1 kHz (0.009MHz~ 0.15 MHz),

RBW is set to 10 kHz (0.15 MHz~ 30 MHz)

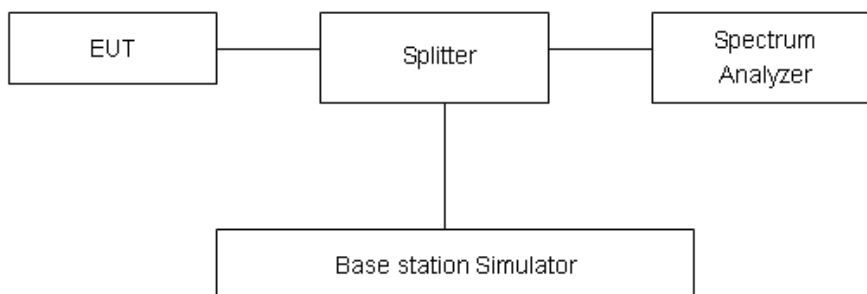
RBW is set to 100 kHz (30MHz~1000 MHz)

RBW is set to 1000 kHz (above 1000MHz)

Of those disturbances below (limit – 20 dB), the mark is not required for the EUT.

The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test setup



Limits

Rule Part 27.53(n) (2) For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed –13 dBm/MHz. Compliance with this paragraph (n)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.



Rule Part 27.53(l) (2) For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (l)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 99.75% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
9kHz-1GHz	0.684 dB
1GHz-40GHz	1.407 dB

Test Results

Refer to the section 6.6 of this report for test data.

5.7 Radiates Spurious Emission

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

- The testing follows FCC KDB 971168 D01 v03r01 Section 5.8 and ANSI C63.26 (2015).
- Below 1GHz: The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H). Above 1GHz: (Note: the FCC's permission to use 1.5m as an alternative per TCBC Conf call of Dec. 2, 2014.) The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).
- A loop antenna, A log-periodic antenna or horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
- The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=100kHz, VBW=300kHz for 30MHz to 1GHz and RBW=1MHz, VBW=3MHz for above 1GHz, and the maximum value of the receiver should be recorded as (Pr).
- The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
- A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Pcl) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAG) should be recorded after test.
- The measurement results are obtained as described below:

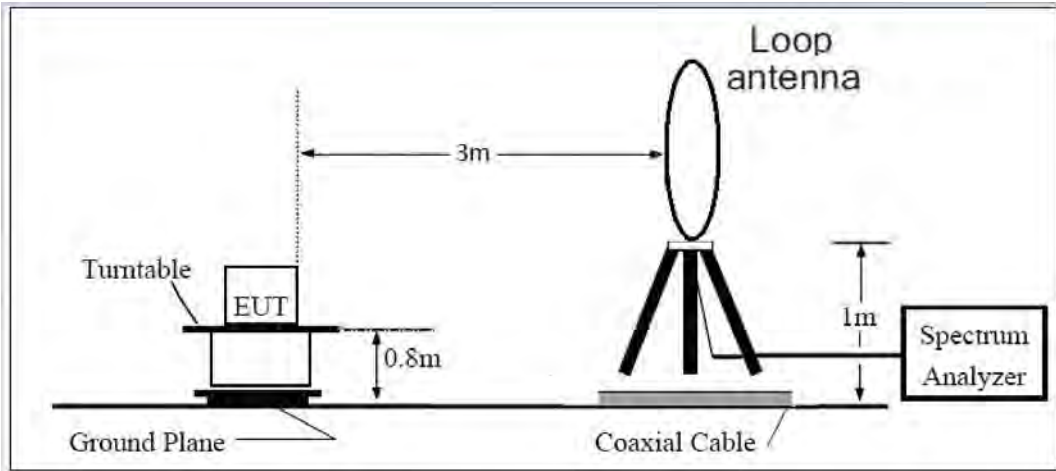
$$\text{Power(EIRP)} = \text{PMea} - \text{PAG} - \text{Pcl} + \text{Ga}$$
 The measurement results are amend as described below:

$$\text{Power(EIRP)} = \text{PMea} - \text{Pcl} + \text{Ga}$$
- This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dB) and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole, $\text{ERP} = \text{EIRP} - 2.15\text{dB}$.

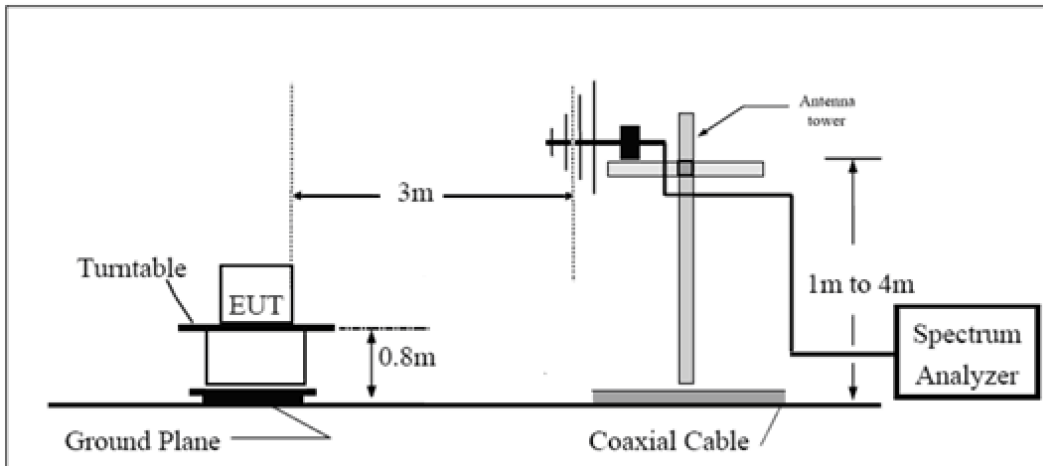
The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test setup

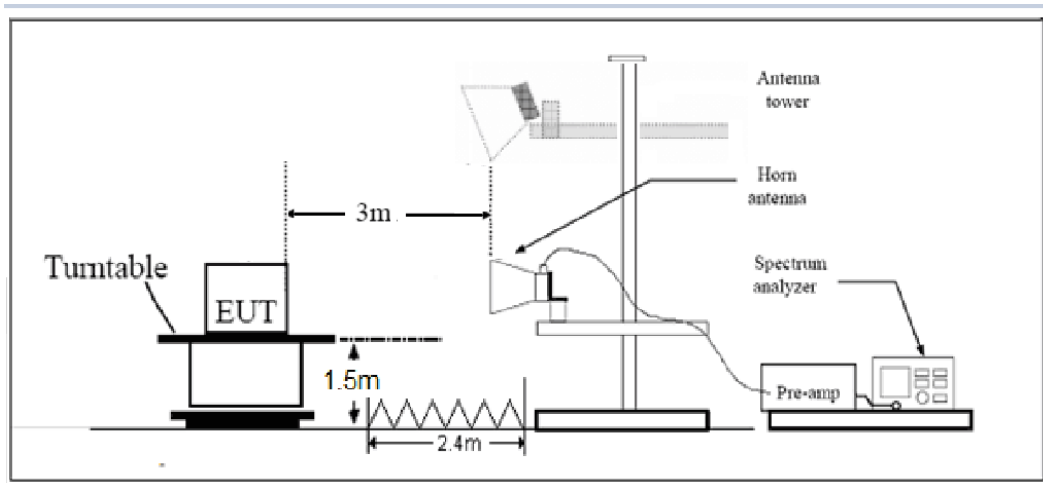
9KHz ~ 30MHz



30MHz ~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

Limits

Rule Part 27.53(n) (2) For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

Compliance with this paragraph (n)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

Rule Part 27.53(l) (2) For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (l)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = \pm 1.96$, $U = \pm 3.55$ dB.

Test Results

Refer to the section 6.7 of this report for test data.

6 Test Results

6.1 RF Power Output and Effective Isotropic Radiated Power

NR n77 subset 1													
Bandwidth (MHz)	Modulation	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			Antenna 5 EIRP (dBm)			Antenna 10 EIRP (dBm)		
					630666	633334	635998	630666	633334	635998	630666	633334	635998
					3460	3500	3540	3460	3500	3540	3460	3500	3540
20	BPSK	30	1	0	21.56	21.45	21.52	19.26	19.15	19.22	18.26	18.15	18.22
			1	1	21.95	21.95	22.08	19.65	19.65	19.78	18.65	18.65	18.78
			1	49	21.94	22.04	22.3	19.64	19.74	20	18.64	18.74	19
			1	50	21.41	21.5	21.74	19.11	19.2	19.44	18.11	18.2	18.44
			25	12	22.05	21.99	22.14	19.75	19.69	19.84	18.75	18.69	18.84
			50	0	22.04	21.98	22.16	19.74	19.68	19.86	18.74	18.68	18.86
	QPSK		1	0	21.49	21.42	21.63	19.19	19.12	19.33	18.19	18.12	18.33
			1	1	21.97	21.86	22.07	19.67	19.56	19.77	18.67	18.56	18.77
			1	49	22.06	21.94	22.27	19.76	19.64	19.97	18.76	18.64	18.97
			1	50	21.53	21.521	21.72	19.23	19.221	19.42	18.23	18.221	18.42
			25	12	22.03	21.98	22.15	19.73	19.68	19.85	18.73	18.68	18.85
			50	0	22.04	22.03	22.15	19.74	19.73	19.85	18.74	18.73	18.85
	16QAM		1	0	21.28	21.36	21.67	18.98	19.06	19.37	17.98	18.06	18.37
			1	1	21.79	21.88	22.16	19.49	19.58	19.86	18.49	18.58	18.86
			1	49	21.88	21.95	22.26	19.58	19.65	19.96	18.58	18.65	18.96
			1	50	21.37	21.43	21.78	19.07	19.13	19.48	18.07	18.13	18.48
			25	12	22.1	22.05	22.24	19.8	19.75	19.94	18.8	18.75	18.94
			50	0	22.08	22.03	22.01	19.78	19.73	19.71	18.78	18.73	18.71
	64QAM		1	0	21.16	21.12	21.25	18.86	18.82	18.95	17.86	17.82	17.95
			1	1	21.68	21.53	21.35	19.38	19.23	19.05	18.38	18.23	18.05
			1	49	21.46	21.51	21.36	19.16	19.21	19.06	18.16	18.21	18.06
			1	50	21.26	21.09	21.34	18.96	18.79	19.04	17.96	17.79	18.04
			25	12	21.45	21.65	21.32	19.15	19.35	19.02	18.15	18.35	18.02
			50	0	21.73	21.58	21.6	19.43	19.28	19.3	18.43	18.28	18.3
	256QAM		1	0	20.22	20.22	20	17.92	17.92	17.7	16.92	16.92	16.7
			1	1	20.23	20.11	20.41	17.93	17.81	18.11	16.93	16.81	17.11
			1	49	20.33	20.19	20.52	18.03	17.89	18.22	17.03	16.89	17.22
			1	50	20.11	20.09	19.99	17.81	17.79	17.69	16.81	16.79	16.69
			25	12	19.94	20.1	19.75	17.64	17.8	17.45	16.64	16.8	16.45
			50	0	20.35	20.27	20.29	18.05	17.97	17.99	17.05	16.97	16.99



Bandwidth (MHz)	Modulation	SCS (KHz)	RB Allocation	RB Offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)			Channel/Frequency(MHz)		
					631332	633334	635332	631332	633334	635332	631332	633334	635332
					3470	3500	3530	3470	3500	3530	3470	3500	3530
40	BPSK	30	1	0	21.81	21.64	21.73	19.51	19.34	19.43	18.51	18.34	18.43
			1	1	22.23	22.18	22.2	19.93	19.88	19.9	18.93	18.88	18.9
			1	104	22.24	22.32	22.29	19.94	20.02	19.99	18.94	19.02	18.99
			1	105	21.78	21.84	21.89	19.48	19.54	19.59	18.48	18.54	18.59
			50	25	22.08	22.06	22.29	19.78	19.76	19.99	18.78	18.76	18.99
			100	0	22.22	22.11	22.29	19.92	19.81	19.99	18.92	18.81	18.99
	QPSK		1	0	21.97	21.63	21.71	19.67	19.33	19.41	18.67	18.33	18.41
			1	1	22.31	22.17	22.31	20.01	19.87	20.01	19.01	18.87	19.01
			1	104	22.13	22.32	22.3	19.83	20.02	20	18.83	19.02	19
			1	105	21.68	21.92	21.99	19.38	19.62	19.69	18.38	18.62	18.69
			50	25	22.18	21.99	22.26	19.88	19.69	19.96	18.88	18.69	18.96
			100	0	22.14	22.18	22.26	19.84	19.88	19.96	18.84	18.88	18.96
	16QAM		1	0	21.71	21.58	21.73	19.41	19.28	19.43	18.41	18.28	18.43
			1	1	22.23	22.08	22.21	19.93	19.78	19.91	18.93	18.78	18.91
			1	104	22.15	22.23	22.26	19.85	19.93	19.96	18.85	18.93	18.96
			1	105	21.65	21.73	22	19.35	19.43	19.7	18.35	18.43	18.7
			50	25	22.08	22.05	22.22	19.78	19.75	19.92	18.78	18.75	18.92
			100	0	22.15	22.15	22.01	19.85	19.85	19.71	18.85	18.85	18.71
	64QAM		1	0	21.92	21.2	21.29	19.62	18.9	18.99	18.62	17.9	17.99
			1	1	22.21	21.71	21.49	19.91	19.41	19.19	18.91	18.41	18.19
			1	104	22.27	21.37	21.24	19.97	19.07	18.94	18.97	18.07	17.94
			1	105	21.81	21.36	21.24	19.51	19.06	18.94	18.51	18.06	17.94
			50	25	22.19	21.58	21.26	19.89	19.28	18.96	18.89	18.28	17.96
			100	0	22.21	21.77	21.71	19.91	19.47	19.41	18.91	18.47	18.41
256QAM	1	0	20.73	20.45	20.26	18.43	18.15	17.96	17.43	17.15	16.96		
	1	1	20.75	20.45	20.26	18.45	18.15	17.96	17.45	17.15	16.96		
	1	104	20.58	20.12	20.01	18.28	17.82	17.71	17.28	16.82	16.71		
	1	105	20.58	20.11	19.99	18.28	17.81	17.69	17.28	16.81	16.69		
	50	25	20.6	20.19	19.79	18.3	17.89	17.49	17.3	16.89	16.49		
	100	0	20.61	20.34	20.31	18.31	18.04	18.01	17.31	17.04	17.01		
Bandwidth (MHz)	Modulation	SCS (KHz)	RB Allocation	RB Offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)			Channel/Frequency(MHz)		
					632000	633334	634666	632000	633334	634666	632000	633334	634666
					3480	3500	3520	3480	3500	3520	3480	3500	3520
60	BPSK	30	1	0	21.54	21.37	21.38	19.24	19.07	19.08	18.24	18.07	18.08
			1	1	22.06	21.89	21.91	19.76	19.59	19.61	18.76	18.59	18.61
			1	160	22.07	22.07	22.2	19.77	19.77	19.9	18.77	18.77	18.9
			1	161	21.45	21.52	21.66	19.15	19.22	19.36	18.15	18.22	18.36
			81	40	21.95	21.86	22	19.65	19.56	19.7	18.65	18.56	18.7
			162	0	22.01	21.94	22.05	19.71	19.64	19.75	18.71	18.64	18.75
	QPSK		1	0	21.5	21.42	21.37	19.2	19.12	19.07	18.2	18.12	18.07



	64QAM	30	216	0	21.71	21.83	21.84	19.41	19.53	19.54	18.41	18.53	18.54
			1	0	21.47	21	21.06	19.17	18.7	18.76	18.17	17.7	17.76
			1	1	22.02	21.54	21.57	19.72	19.24	19.27	18.72	18.24	18.27
			1	215	22.05	21.69	21.78	19.75	19.39	19.48	18.75	18.39	18.48
			1	216	21.56	21.15	21.14	19.26	18.85	18.84	18.26	17.85	17.84
			108	54	21.74	21.63	21.45	19.44	19.33	19.15	18.44	18.33	18.15
			216	0	21.8	21.83	21.83	19.5	19.53	19.53	18.5	18.53	18.53
	256QAM		1	0	20.26	20.04	20.06	17.96	17.74	17.76	16.96	16.74	16.76
			1	1	20.32	20.07	20.11	18.02	17.77	17.81	17.02	16.77	16.81
			1	215	20.28	20.21	20.29	17.98	17.91	17.99	16.98	16.91	16.99
			1	216	20.18	20.16	20.24	17.88	17.86	17.94	16.88	16.86	16.94
			108	54	20.24	20.14	19.95	17.94	17.84	17.65	16.94	16.84	16.65
			216	0	20.26	20.29	20.36	17.96	17.99	18.06	16.96	16.99	17.06
Bandwidth (MHz)	Modulation	SCS (KHz)	RB Allocation	RB Offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)			Channel/Frequency(MHz)		
					N/A	633334	N/A	N/A	633334	N/A	N/A	633334	N/A
					N/A	3500	N/A	N/A	3500	N/A	N/A	3500	N/A
100	BPSK	30	1	0	/	21.51	/	/	19.21	/	/	18.21	/
			1	1	/	21.99	/	/	19.69	/	/	18.69	/
			1	271	/	22.33	/	/	20.03	/	/	19.03	/
			1	272	/	21.63	/	/	19.33	/	/	18.33	/
			135	67	/	21.77	/	/	19.47	/	/	18.47	/
			270	0	/	21.86	/	/	19.56	/	/	18.56	/
	QPSK		1	0	/	21.37	/	/	19.07	/	/	18.07	/
			1	1	/	21.92	/	/	19.62	/	/	18.62	/
			1	271	/	22.13	/	/	19.83	/	/	18.83	/
			1	272	/	21.63	/	/	19.33	/	/	18.33	/
			135	67	/	21.76	/	/	19.46	/	/	18.46	/
			270	0	/	21.83	/	/	19.53	/	/	18.53	/
	16QAM		1	0	/	21.44	/	/	19.14	/	/	18.14	/
			1	1	/	21.95	/	/	19.65	/	/	18.65	/
			1	271	/	22.19	/	/	19.89	/	/	18.89	/
			1	272	/	21.76	/	/	19.46	/	/	18.46	/
			135	67	/	21.78	/	/	19.48	/	/	18.48	/
			270	0	/	21.83	/	/	19.53	/	/	18.53	/
	64QAM		1	0	/	21.07	/	/	18.77	/	/	17.77	/
			1	1	/	21.6	/	/	19.3	/	/	18.3	/
			1	271	/	21.83	/	/	19.53	/	/	18.53	/
			1	272	/	21.39	/	/	19.09	/	/	18.09	/
			135	67	/	21.68	/	/	19.38	/	/	18.38	/
			270	0	/	21.94	/	/	19.64	/	/	18.64	/
	256QAM		1	0	/	20.23	/	/	17.93	/	/	16.93	/
			1	1	/	20.27	/	/	17.97	/	/	16.97	/
			1	271	/	20.5	/	/	18.2	/	/	17.2	/



			1	272	/	20.47	/	/	18.17	/	/	17.17	/
			135	67	/	20.15	/	/	17.85	/	/	16.85	/
			270	0	/	20.31	/	/	18.01	/	/	17.01	/

NR n77 subset 2													
Bandwidth (MHz)	Modulation	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			Antenna 5 EIRP (dBm)			Antenna 10 EIRP (dBm)		
					647334	656000	664666	647334	656000	664666	647334	656000	664666
					3710	3840	3970	3710	3840	3970	3710	3840	3970
20	BPSK	30	1	0	21.84	21.08	21.82	19.54	18.78	19.52	18.54	17.78	18.52
			1	1	22.35	21.54	22.3	20.05	19.24	20	19.05	18.24	19
			1	49	22.19	21.6	22.38	19.89	19.3	20.08	18.89	18.3	19.08
			1	50	21.64	21.14	21.84	19.34	18.84	19.54	18.34	17.84	18.54
			25	12	22.35	21.7	22.1	20.05	19.4	19.8	19.05	18.4	18.8
			50	0	22.34	21.69	22.41	20.04	19.39	20.11	19.04	18.39	19.11
	QPSK		1	0	21.84	21.2	21.82	19.54	18.9	19.52	18.54	17.9	18.52
			1	1	22.31	21.59	22.23	20.01	19.29	19.93	19.01	18.29	18.93
			1	49	22.26	21.63	22.33	19.96	19.33	20.03	18.96	18.33	19.03
			1	50	21.72	21.26	21.85	19.42	18.96	19.55	18.42	17.96	18.55
			25	12	22.33	21.73	22.44	20.03	19.43	20.14	19.03	18.43	19.14
			50	0	22.37	21.75	22.35	20.07	19.45	20.05	19.07	18.45	19.05
	16QAM		1	0	21.78	21.19	21.63	19.48	18.89	19.33	18.48	17.89	18.33
			1	1	22.3	21.68	22.14	20	19.38	19.84	19	18.38	18.84
			1	49	22.2	21.7	22.33	19.9	19.4	20.03	18.9	18.4	19.03
			1	50	21.77	21.2	21.71	19.47	18.9	19.41	18.47	17.9	18.41
			25	12	22.38	21.78	22.41	20.08	19.48	20.11	19.08	18.48	19.11
			50	0	22.37	21.71	22.39	20.07	19.41	20.09	19.07	18.41	19.09
	64QAM		1	0	21.49	20.8	21.42	19.19	18.5	19.12	18.19	17.5	18.12
			1	1	22.02	21.32	21.96	19.72	19.02	19.66	18.72	18.02	18.66
			1	49	21.87	21.34	22.14	19.57	19.04	19.84	18.57	18.04	18.84
			1	50	21.38	20.82	21.61	19.08	18.52	19.31	18.08	17.52	18.31
			25	12	22.42	21.77	22.44	20.12	19.47	20.14	19.12	18.47	19.14
			50	0	22.39	21.73	22.43	20.09	19.43	20.13	19.09	18.43	19.13
256QAM	1	0	20.66	19.97	20.54	18.36	17.67	18.24	17.36	16.67	17.24		
	1	1	20.67	20.02	20.45	18.37	17.72	18.15	17.37	16.72	17.15		
	1	49	20.54	20.04	20.65	18.24	17.74	18.35	17.24	16.74	17.35		
	1	50	20.59	19.89	20.62	18.29	17.59	18.32	17.29	16.59	17.32		
	25	12	20.75	20.13	20.87	18.45	17.83	18.57	17.45	16.83	17.57		
	50	0	20.881	20.07	20.86	18.581	17.77	18.56	17.581	16.77	17.56		



Bandwidth (MHz)	Modulation	SCS (KHz)	RB Allocation	RB Offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)			Channel/Frequency(MHz)		
					648000	656000	664000	648000	656000	664000	648000	656000	664000
					3720	3840	3960	3720	3840	3960	3720	3840	3960
40	BPSK	30	1	0	22.24	21.44	21.92	19.94	19.14	19.62	18.94	18.14	18.62
			1	1	22.39	22	22.39	20.09	19.7	20.09	19.09	18.7	19.09
			1	104	22.38	21.88	22.4	20.08	19.58	20.1	19.08	18.58	19.1
			1	105	21.91	21.39	22.2	19.61	19.09	19.9	18.61	18.09	18.9
			50	25	22.44	21.85	22.34	20.14	19.55	20.04	19.14	18.55	19.04
			100	0	22.35	21.83	22.35	20.05	19.53	20.05	19.05	18.53	19.05
	QPSK		1	0	22.24	21.42	21.86	19.94	19.12	19.56	18.94	18.12	18.56
			1	1	22.43	22.03	22.38	20.13	19.73	20.08	19.13	18.73	19.08
			1	104	22.38	22	22.41	20.08	19.7	20.11	19.08	18.7	19.11
			1	105	21.9	21.36	22.14	19.6	19.06	19.84	18.6	18.06	18.84
			50	25	22.33	21.78	22.34	20.03	19.48	20.04	19.03	18.48	19.04
			100	0	22.46	21.81	22.36	20.16	19.51	20.06	19.16	18.51	19.06
	16QAM		1	0	22.09	21.51	21.74	19.79	19.21	19.44	18.79	18.21	18.44
			1	1	22.31	21.89	22.23	20.01	19.59	19.93	19.01	18.59	18.93
			1	104	22.31	22.08	22.47	20.01	19.78	20.17	19.01	18.78	19.17
			1	105	21.69	21.48	22.06	19.39	19.18	19.76	18.39	18.18	18.76
			50	25	22.42	21.88	22.31	20.12	19.58	20.01	19.12	18.58	19.01
			100	0	22.47	21.87	22.46	20.17	19.57	20.16	19.17	18.57	19.16
	64QAM		1	0	21.92	21	21.62	19.62	18.7	19.32	18.62	17.7	18.32
			1	1	22.45	21.51	22.13	20.15	19.21	19.83	19.15	18.21	18.83
			1	104	22.17	21.48	22.46	19.87	19.18	20.16	18.87	18.18	19.16
			1	105	21.64	20.96	21.95	19.34	18.66	19.65	18.34	17.66	18.65
			50	25	22.44	21.82	22.4	20.14	19.52	20.1	19.14	18.52	19.1
			100	0	22.37	21.9	22.5	20.07	19.6	20.2	19.07	18.6	19.2
256QAM	1	0	21.1	20.34	20.69	18.8	18.04	18.39	17.8	17.04	17.39		
	1	1	21.12	20.35	20.7	18.82	18.05	18.4	17.82	17.05	17.4		
	1	104	20.81	20.38	21	18.51	18.08	18.7	17.51	17.08	17.7		
	1	105	20.7	20.37	20.98	18.4	18.07	18.68	17.4	17.07	17.68		
	50	25	20.89	20.36	20.89	18.59	18.06	18.59	17.59	17.06	17.59		
	100	0	20.91	20.44	20.81	18.61	18.14	18.51	17.61	17.14	17.51		
Bandwidth (MHz)	Modulation	SCS (KHz)	RB Allocation	RB Offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)			Channel/Frequency(MHz)		
					648666	656000	663334	648666	656000	663334	648666	656000	663334
					3730	3840	3950	3730	3840	3950	3730	3840	3950
60	BPSK	30	1	0	21.79	20.99	21.22	19.49	18.69	18.92	18.49	17.69	17.92
			1	1	22.3	21.6	21.69	20	19.3	19.39	19	18.3	18.39
			1	160	21.76	21.59	22.27	19.46	19.29	19.97	18.46	18.29	18.97
			1	161	21.34	21.09	21.71	19.04	18.79	19.41	18.04	17.79	18.41
			81	40	22.06	21.58	22.12	19.76	19.28	19.82	18.76	18.28	18.82
			162	0	22.07	21.55	22.13	19.77	19.25	19.83	18.77	18.25	18.83
	QPSK		1	0	21.77	20.91	21.2	19.47	18.61	18.9	18.47	17.61	17.9



Bandwidth (MHz)	Modulation	SCS (KHz)	RB Allocation	RB Offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)			Channel/Frequency(MHz)				
					650000	656000	662000	650000	656000	662000	650000	656000	662000		
100	64QAM	30	216	0	21.91	21.38	21.95	19.61	19.08	19.65	18.61	18.08	18.65		
			1	0	21.4	20.47	20.8	19.1	18.17	18.5	18.1	17.17	17.5		
			1	1	21.93	20.93	21.32	19.63	18.63	19.02	18.63	17.63	18.02		
			1	215	21.43	21.28	21.84	19.13	18.98	19.54	18.13	17.98	18.54		
			1	216	20.85	20.75	21.29	18.55	18.45	18.99	17.55	17.45	17.99		
			108	54	21.89	21.51	21.74	19.59	19.21	19.44	18.59	18.21	18.44		
	216		0	21.87	21.42	22.06	19.57	19.12	19.76	18.57	18.12	18.76			
	1		0	20.4	19.65	19.97	18.1	17.35	17.67	17.1	16.35	16.67			
	1		1	20.44	19.69	20.1	18.14	17.39	17.8	17.14	16.39	16.8			
	1		215	20.02	19.85	20.33	17.72	17.55	18.03	16.72	16.55	17.03			
	1		216	19.87	19.81	20.29	17.57	17.51	17.99	16.57	16.51	16.99			
	108		54	20.4	1.92	20.54	18.1	-0.38	18.24	17.1	-1.38	17.24			
	216		0	20.39	19.94	20.18	18.09	17.64	17.88	17.09	16.64	16.88			
	100		BPSK	30	1	0	21.67	20.89	21.05	19.37	18.59	18.75	18.37	17.59	17.75
					1	1	22.19	21.56	21.57	19.89	19.26	19.27	18.89	18.26	18.27
					1	271	21.72	21.74	22.32	19.42	19.44	20.02	18.42	18.44	19.02
					1	272	21.21	21.06	21.77	18.91	18.76	19.47	17.91	17.76	18.47
					135	67	21.84	21.47	21.84	19.54	19.17	19.54	18.54	18.17	18.54
					270	0	21.81	21.52	21.85	19.51	19.22	19.55	18.51	18.22	18.55
			1		0	21.68	20.93	21.04	19.38	18.63	18.74	18.38	17.63	17.74	
			1		1	22.18	21.48	21.65	19.88	19.18	19.35	18.88	18.18	18.35	
			1		271	21.7	21.75	22.34	19.4	19.45	20.04	18.4	18.45	19.04	
			1		272	21.21	21.17	21.8	18.91	18.87	19.5	17.91	17.87	18.5	
			135		67	21.75	21.37	21.88	19.45	19.07	19.58	18.45	18.07	18.58	
270		0	21.88		21.5	21.89	19.58	19.2	19.59	18.58	18.2	18.59			
1		0	21.49		20.8	21.05	19.19	18.5	18.75	18.19	17.5	17.75			
1		1	22.02		21.34	21.44	19.72	19.04	19.14	18.72	18.04	18.14			
1		271	21.63		21.66	22.51	19.33	19.36	20.21	18.33	18.36	19.21			
1		272	21.2		21.4	21.71	18.9	19.1	19.41	17.9	18.1	18.41			
135		67	21.73		21.39	21.89	19.43	19.09	19.59	18.43	18.09	18.59			
270		0	21.81		21.43	21.95	19.51	19.13	19.65	18.51	18.13	18.65			
1		0	21.41		20.66	20.61	19.11	18.36	18.31	18.11	17.36	17.31			
1		1	21.93		21.21	21.14	19.63	18.91	18.84	18.63	17.91	17.84			
1		271	21.56		21.52	21.81	19.26	19.22	19.51	18.26	18.22	18.51			
1		272	20.99		20.89	21.38	18.69	18.59	19.08	17.69	17.59	18.08			
135		67	21.86		21.4	21.65	19.56	19.1	19.35	18.56	18.1	18.35			
270		0	21.88		21.45	22.02	19.58	19.15	19.72	18.58	18.15	18.72			
1	0	20.49	19.83	19.93	18.19	17.53	17.63	17.19	16.53	16.63					
1	1	20.52	19.76	19.97	18.22	17.46	17.67	17.22	16.46	16.67					
1	271	20.1	20.03	20.65	17.8	17.73	18.35	16.8	16.73	17.35					



			1	272	20.08	20.08	20.61	17.78	17.78	18.31	16.78	16.78	17.31
			135	67	20.29	19.93	20.06	17.99	17.63	17.76	16.99	16.63	16.76
			270	0	20.34	20.07	20.38	18.04	17.77	18.08	17.04	16.77	17.08

DC_2A-n77A subset 1														
Bandwidth (MHz)	Modulation	Modulation (LTE)	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			Antenna 5 EIRP (dBm)			Antenna 10 EIRP (dBm)		
						630666	633334	635998	630666	633334	635998	630666	633334	635998
						3460	3500	3540	3460	3500	3540	3460	3500	3540
20	BPSK	Band2-5MHz-1880MHz-QPSK-1#0	30	1	0	21.5	21.29	21.33	19.20	18.99	19.03	18.20	17.99	18.03
				1	1	22.09	21.96	21.88	19.79	19.66	19.58	18.79	18.66	18.58
				1	49	22.05	21.74	21.89	19.75	19.44	19.59	18.75	18.44	18.59
				1	50	21.42	21.25	21.3	19.12	18.95	19.00	18.12	17.95	18.00
				25	12	22.09	21.86	21.92	19.79	19.56	19.62	18.79	18.56	18.62
				50	0	22.02	21.84	21.87	19.72	19.54	19.57	18.72	18.54	18.57
	QPSK			1	0	21.68	21.53	21.3	19.38	19.23	19.00	18.38	18.23	18.00
				1	1	22.06	21.77	21.95	19.76	19.47	19.65	18.76	18.47	18.65
				1	49	22.02	21.86	22.01	19.72	19.56	19.71	18.72	18.56	18.71
				1	50	21.56	21.27	21.45	19.26	18.97	19.15	18.26	17.97	18.15
				25	12	22.08	21.84	21.84	19.78	19.54	19.54	18.78	18.54	18.54
				50	0	22.11	21.87	21.92	19.81	19.57	19.62	18.81	18.57	18.62
	16QAM			1	0	21.65	21.35	21.37	19.35	19.05	19.07	18.35	18.05	18.07
				1	1	22.15	21.87	21.86	19.85	19.57	19.56	18.85	18.57	18.56
				1	49	22.11	21.97	22.01	19.81	19.67	19.71	18.81	18.67	18.71
				1	50	21.4	21.36	21.51	19.10	19.06	19.21	18.10	18.06	18.21
				25	12	22.06	21.84	21.92	19.76	19.54	19.62	18.76	18.54	18.62
				50	0	22.03	21.86	21.34	19.73	19.56	19.04	18.73	18.56	18.04
	64QAM			1	0	20.46	20.21	19.4	18.16	17.91	17.10	17.16	16.91	16.10
				1	1	20.37	20.11	20.1	18.07	17.81	17.80	17.07	16.81	16.80
				1	49	20.34	20.21	19.95	18.04	17.91	17.65	17.04	16.91	16.65
				1	50	20.42	19.8	19.42	18.12	17.50	17.12	17.12	16.50	16.12
				25	12	20.49	19.7	19.36	18.19	17.40	17.06	17.19	16.40	16.06
				50	0	20.54	19.94	19.82	18.24	17.64	17.52	17.24	16.64	16.52
256QAM	1	0	20.36	20.1	19.54	18.06	17.80	17.24	17.06	16.80	16.24			
	1	1	20.38	20.14	20.05	18.08	17.84	17.75	17.08	16.84	16.75			
	1	49	20.34	20.14	19.89	18.04	17.84	17.59	17.04	16.84	16.59			
	1	50	20.31	19.61	19.36	18.01	17.31	17.06	17.01	16.31	16.06			
	25	12	20.41	19.62	19.35	18.11	17.32	17.05	17.11	16.32	16.05			
	50	0	20.55	20.18	19.78	18.25	17.88	17.48	17.25	16.88	16.48			



Bandwidth (MHz)	Modulation	Modulation (LTE)	SCS (KHz)	RB Allocation	RB Offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)			Channel/Frequency(MHz)		
						631332	633334	635332	631332	633334	635332	631332	633334	635332
						3470	3500	3530	3470	3500	3530	3470	3500	3530
40	BPSK	Band2-5MHz-1880MHz-QPSK-1#0	30	1	0	21.89	21.74	21.74	19.59	19.44	19.44	18.59	18.44	18.44
				1	1	22.38	22.13	22.21	20.08	19.83	19.91	19.08	18.83	18.91
				1	104	22.35	22.26	22.23	20.05	19.96	19.93	19.05	18.96	18.93
				1	105	21.87	21.44	21.69	19.57	19.14	19.39	18.57	18.14	18.39
				50	25	22.09	21.93	22.01	19.79	19.63	19.71	18.79	18.63	18.71
				100	0	22.06	22.09	22.05	19.76	19.79	19.75	18.76	18.79	18.75
	QPSK			1	0	21.92	21.66	21.49	19.62	19.36	19.19	18.62	18.36	18.19
				1	1	22.46	22.16	22.16	20.16	19.86	19.86	19.16	18.86	18.86
				1	104	22.33	22.19	22.26	20.03	19.89	19.96	19.03	18.89	18.96
				1	105	21.71	21.65	21.64	19.41	19.35	19.34	18.41	18.35	18.34
				50	25	22.09	22.03	22.09	19.79	19.73	19.79	18.79	18.73	18.79
				100	0	22.12	22.04	22.01	19.82	19.74	19.71	18.82	18.74	18.71
	16QAM			1	0	21.86	21.79	21.53	19.56	19.49	19.23	18.56	18.49	18.23
				1	1	22.36	22.28	22.11	20.06	19.98	19.81	19.06	18.98	18.81
				1	104	22.21	22.3	22.22	19.91	20.00	19.92	18.91	19.00	18.92
				1	105	21.81	21.82	21.73	19.51	19.52	19.43	18.51	18.52	18.43
				50	25	22.07	22.02	22.02	19.77	19.72	19.72	18.77	18.72	18.72
				100	0	22.15	22.01	21.76	19.85	19.71	19.46	18.85	18.71	18.46
	64QAM			1	0	20.57	20.48	20.06	18.27	18.18	17.76	17.27	17.18	16.76
				1	1	21.58	20.46	20.07	19.28	18.16	17.77	18.28	17.16	16.77
				1	104	20.28	19.54	19.56	17.98	17.24	17.26	16.98	16.24	16.26
				1	105	20.27	20.88	19.55	17.97	18.58	17.25	16.97	17.58	16.25
				50	25	20.54	21.21	19.33	18.24	18.91	17.03	17.24	17.91	16.03
				100	0	20.65	21.74	19.78	18.35	19.44	17.48	17.35	18.44	16.48
256QAM	1	0	20.66	21.32	19.96	18.36	19.02	17.66	17.36	18.02	16.66			
	1	1	20.67	21.73	19.96	18.37	19.43	17.66	17.37	18.43	16.66			
	1	104	20.37	20.86	19.47	18.07	18.56	17.17	17.07	17.56	16.17			
	1	105	20.36	20.86	19.45	18.06	18.56	17.15	17.06	17.56	16.15			
	50	25	20.58	21.24	19.31	18.28	18.94	17.01	17.28	17.94	16.01			
	100	0	20.65	21.45	19.93	18.35	19.15	17.63	17.35	18.15	16.63			
Bandwidth (MHz)	Modulation	Modulation (LTE)	SCS (KHz)	RB Allocation	RB Offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)			Channel/Frequency(MHz)		
						632000	633334	634666	632000	633334	634666	632000	633334	634666
						3480	3500	3520	3480	3500	3520	3480	3500	3520
60	BPSK	Band2-5MHz-1880MHz-QPSK-1#0	30	1	0	21.37	21.22	21.26	19.07	18.92	18.96	18.07	17.92	17.96
				1	1	22	21.88	21.81	19.70	19.58	19.51	18.70	18.58	18.51
				1	160	21.79	21.92	21.95	19.49	19.62	19.65	18.49	18.62	18.65
				1	161	21.43	21.38	21.24	19.13	19.08	18.94	18.13	18.08	17.94
				81	40	21.86	21.73	21.82	19.56	19.43	19.52	18.56	18.43	18.52
				162	0	21.91	21.85	21.81	19.61	19.55	19.51	18.61	18.55	18.51
	QPSK			1	0	21.49	21.35	21.29	19.19	19.05	18.99	18.19	18.05	17.99



	16QAM		30	1	1	22.02	21.85	21.76	19.72	19.55	19.46	18.72	18.55	18.46
				1	160	21.92	21.76	21.89	19.62	19.46	19.59	18.62	18.46	18.59
				1	161	21.36	21.31	21.35	19.06	19.01	19.05	18.06	18.01	18.05
				81	40	21.89	21.76	21.81	19.59	19.46	19.51	18.59	18.46	18.51
				162	0	21.93	21.86	21.79	19.63	19.56	19.49	18.63	18.56	18.49
	1			0	21.51	21.33	21.23	19.21	19.03	18.93	18.21	18.03	17.93	
	1			1	22.14	21.85	21.84	19.84	19.55	19.54	18.84	18.55	18.54	
	1			160	22.1	21.91	21.9	19.80	19.61	19.60	18.80	18.61	18.60	
	1			161	21.38	21.36	21.3	19.08	19.06	19.00	18.08	18.06	18.00	
	81			40	21.9	21.81	21.84	19.60	19.51	19.54	18.60	18.51	18.54	
	162			0	21.96	21.8	21.83	19.66	19.50	19.53	18.66	18.50	18.53	
	1			0	21.15	20.72	20.07	18.85	18.42	17.77	17.85	17.42	16.77	
	1			1	21.7	21.37	20.11	19.40	19.07	17.81	18.40	18.07	16.81	
	1			160	21.59	21.05	19.92	19.29	18.75	17.62	18.29	17.75	16.62	
	1			161	21.04	20.78	19.86	18.74	18.48	17.56	17.74	17.48	16.56	
81	40	21.88	21.23	19.48	19.58	18.93	17.18	18.58	17.93	16.18				
162	0	21.86	21.85	20.12	19.56	19.55	17.82	18.56	18.55	16.82				
1	0	21.14	20.08	20.15	18.84	17.78	17.85	17.84	16.78	16.85				
1	1	21.7	20.13	20.06	19.40	17.83	17.76	18.40	16.83	16.76				
1	160	21.55	19.37	19.88	19.25	17.07	17.58	18.25	16.07	16.58				
1	161	20.98	19.3	19.82	18.68	17.00	17.52	17.68	16.00	16.52				
81	40	21.93	19.74	19.53	19.63	17.44	17.23	18.63	16.44	16.23				
162	0	21.89	20.3	20.13	19.59	18.00	17.83	18.59	17.00	16.83				
Bandwidth (MHz)	Modulation	Modulation (LTE)	SCS (KHz)	RB Alloca tion	RB Off set	Channel/Frequency(MHz)			Channel/Frequency(MHz)			Channel/Frequency(MHz)		
						632666	633334	633998	632666	633334	633998	632666	633334	633998
						3490	3500	3510	3490	3500	3510	3490	3500	3510
80	BPSK	Band2-5MHz- 1880MHz- QPSK-1#0	30	1	0	21.33	21.15	21.25	19.03	18.85	18.95	18.03	17.85	17.95
				1	1	21.83	21.9	21.36	19.53	19.60	19.06	18.53	18.60	18.06
				1	215	21.43	21.53	21.74	19.13	19.23	19.44	18.13	18.23	18.44
				1	216	21.11	21.13	21.22	18.81	18.83	18.92	17.81	17.83	17.92
				108	54	21.68	21.7	21.62	19.38	19.40	19.32	18.38	18.40	18.32
				216	0	21.71	21.67	21.66	19.41	19.37	19.36	18.41	18.37	18.36
	1			0	21.39	21.3	21.19	19.09	19.00	18.89	18.09	18.00	17.89	
	1			1	21.78	21.8	21.35	19.48	19.50	19.05	18.48	18.50	18.05	
	1			215	21.31	21.61	21.75	19.01	19.31	19.45	18.01	18.31	18.45	
	1			216	21.06	21.05	21.19	18.76	18.75	18.89	17.76	17.75	17.89	
	108			54	21.59	21.62	21.69	19.29	19.32	19.39	18.29	18.32	18.39	
	216			0	21.47	21.68	21.63	19.17	19.38	19.33	18.17	18.38	18.33	
	1			0	21.34	21.33	21.33	19.04	19.03	19.03	18.04	18.03	18.03	
	1			1	21.84	21.84	21.81	19.54	19.54	19.51	18.54	18.54	18.51	
	1			215	21.63	21.68	21.84	19.33	19.38	19.54	18.33	18.38	18.54	
1	216	21.04	21.08	21.26	18.74	18.78	18.96	17.74	17.78	17.96				
108	54	21.67	21.63	21.61	19.37	19.33	19.31	18.37	18.33	18.31				



	64QAM		30	216	0	21.73	21.74	21.66	19.43	19.44	19.36	18.43	18.44	18.36
				1	0	20.84	20.79	20.73	18.54	18.49	18.43	17.54	17.49	17.43
				1	1	21.36	21.34	21.24	19.06	19.04	18.94	18.06	18.04	17.94
				1	215	21.13	20.5	21.28	18.83	18.20	18.98	17.83	17.20	17.98
				1	216	20.66	20.39	20.64	18.36	18.09	18.34	17.36	17.09	17.34
				108	54	21.64	21.61	21.19	19.34	19.31	18.89	18.34	18.31	17.89
				216	0	21.44	21.47	21.35	19.14	19.17	19.05	18.14	18.17	18.05
	256QAM			1	0	20.04	20.03	19.96	17.74	17.73	17.66	16.74	16.73	16.66
				1	1	20.09	20.06	20.01	17.79	17.76	17.71	16.79	16.76	16.71
				1	215	19.88	19.87	20.02	17.58	17.57	17.72	16.58	16.57	16.72
				1	216	19.89	20.06	19.95	17.59	17.76	17.65	16.59	16.76	16.65
				108	54	20.09	20.14	19.69	17.79	17.84	17.39	16.79	16.84	16.39
				216	0	20.16	20.21	20.16	17.86	17.91	17.86	16.86	16.91	16.86
								Channel/Frequency(MHz)		Channel/Frequency(MHz)		Channel/Frequency(MHz)		
Bandwidth (MHz)	Modulation	Modulation (LTE)	SCS (KHz)	RB Allocation	RB Offset	N/A	633334	N/A	N/A	633334	N/A	N/A	633334	N/A
						N/A	3500	N/A	N/A	3500	N/A	N/A	3500	N/A
100	BPSK	Band2-5MHz-1880MHz-QPSK-1#0	30	1	0	/	21.63	/	/	19.33	/	/	18.33	/
				1	1	/	22.19	/	/	19.89	/	/	18.89	/
				1	271	/	22.23	/	/	19.93	/	/	18.93	/
				1	272	/	21.68	/	/	19.38	/	/	18.38	/
				135	67	/	22.01	/	/	19.71	/	/	18.71	/
				270	0	/	22.04	/	/	19.74	/	/	18.74	/
	QPSK			1	0	/	21.74	/	/	19.44	/	/	18.44	/
				1	1	/	22.31	/	/	20.01	/	/	19.01	/
				1	271	/	22.18	/	/	19.88	/	/	18.88	/
				1	272	/	21.7	/	/	19.40	/	/	18.40	/
				135	67	/	22.06	/	/	19.76	/	/	18.76	/
				270	0	/	22.13	/	/	19.83	/	/	18.83	/
	16QAM			1	0	/	21.72	/	/	19.42	/	/	18.42	/
				1	1	/	22.3	/	/	20.00	/	/	19.00	/
				1	271	/	22.31	/	/	20.01	/	/	19.01	/
				1	272	/	21.77	/	/	19.47	/	/	18.47	/
				135	67	/	21.95	/	/	19.65	/	/	18.65	/
				270	0	/	22.08	/	/	19.78	/	/	18.78	/
	64QAM			1	0	/	21.41	/	/	19.11	/	/	18.11	/
				1	1	/	21.91	/	/	19.61	/	/	18.61	/
				1	271	/	21.66	/	/	19.36	/	/	18.36	/
				1	272	/	21.44	/	/	19.14	/	/	18.14	/
				135	67	/	21.84	/	/	19.54	/	/	18.54	/
				270	0	/	22.11	/	/	19.81	/	/	18.81	/
	256QAM			1	0	/	20.56	/	/	18.26	/	/	17.26	/
				1	1	/	20.42	/	/	18.12	/	/	17.12	/
				1	271	/	20.56	/	/	18.26	/	/	17.26	/
				1	271	/	20.56	/	/	18.26	/	/	17.26	/



				1	272	/	20.53	/	/	18.23	/	/	17.23	/
				135	67	/	20.26	/	/	17.96	/	/	16.96	/
				270	0	/	20.53	/	/	18.23	/	/	17.23	/

DC_2A-n77A subset 2														
Bandwidth (MHz)	Modulation	Modulation (LTE)	SCS(KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			Antenna 5 EIRP (dBm)			Antenna 10 EIRP (dBm)		
						647334	656000	664666	647334	656000	664666	647334	656000	664666
						3710	3840	3970	3710	3840	3970	3710	3840	3970
20	BPSK	Band2-5MHz-1880MHz-QPSK-1#0	30	1	0	21.91	21.38	21.47	19.61	19.08	19.17	18.61	18.08	18.17
				1	1	22.39	21.9	22.01	20.09	19.60	19.71	19.09	18.60	18.71
				1	49	22.43	21.76	22.05	20.13	19.46	19.75	19.13	18.46	18.75
				1	50	21.83	21.26	21.34	19.53	18.96	19.04	18.53	17.96	18.04
				25	12	22.38	21.83	21.95	20.08	19.53	19.65	19.08	18.53	18.65
				50	0	22.45	21.85	22.05	20.15	19.55	19.75	19.15	18.55	18.75
	1			0	21.76	21.31	21.43	19.46	19.01	19.13	18.46	18.01	18.13	
	1			1	22.35	21.83	21.9	20.05	19.53	19.60	19.05	18.53	18.60	
	1			49	22.34	21.83	21.96	20.04	19.53	19.66	19.04	18.53	18.66	
	1			50	21.82	21.31	21.45	19.52	19.01	19.15	18.52	18.01	18.15	
	25			12	22.46	21.87	21.96	20.16	19.57	19.66	19.16	18.57	18.66	
	50			0	22.41	21.87	22.02	20.11	19.57	19.72	19.11	18.57	18.72	
	1	0	21.86	21.34	21.47	19.56	19.04	19.17	18.56	18.04	18.17			
	1	1	22.36	21.83	22.08	20.06	19.53	19.78	19.06	18.53	18.78			
	1	49	22.44	21.83	22.01	20.14	19.53	19.71	19.14	18.53	18.71			
	1	50	21.92	21.33	21.49	19.62	19.03	19.19	18.62	18.03	18.19			
	25	12	22.39	21.88	22.04	20.09	19.58	19.74	19.09	18.58	18.74			
	50	0	22.36	21.8	21.99	20.06	19.50	19.69	19.06	18.50	18.69			
	1	0	21.45	20.92	21.16	19.15	18.62	18.86	18.15	17.62	17.86			
	1	1	21.98	21.43	21.51	19.68	19.13	19.21	18.68	18.13	18.21			
	1	49	21.87	21.35	21.7	19.57	19.05	19.40	18.57	18.05	18.40			
	1	50	21.41	20.83	21.22	19.11	18.53	18.92	18.11	17.53	17.92			
	25	12	22.47	21.92	22.06	20.17	19.62	19.76	19.17	18.62	18.76			
	50	0	22.44	21.8	22.06	20.14	19.50	19.76	19.14	18.50	18.76			
1	0	20.78	20.15	20.12	18.48	17.85	17.82	17.48	16.85	16.82				
1	1	20.7	20.17	20.15	18.40	17.87	17.85	17.40	16.87	16.85				
1	49	20.67	20.12	20.27	18.37	17.82	17.97	17.37	16.82	16.97				
1	50	20.71	20.09	20.25	18.41	17.79	17.95	17.41	16.79	16.95				
25	12	20.8	20.24	20.47	18.50	17.94	18.17	17.50	16.94	17.17				
50	0	20.94	20.31	20.49	18.64	18.01	18.19	17.64	17.01	17.19				



Bandwidth (MHz)	Modulation	Modulation (LTE)	SCS (KHz)	RB	RB	Channel/Frequency(MHz)			Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				Allocation	Offset	648000	656000	664000	648000	656000	664000	648000	656000	664000
						3720	3840	3960	3720	3840	3960	3720	3840	3960
40	BPSK	Band2-5MHz-1880MHz-QPSK-1#0	30	1	0	21.76	21.49	21.52	19.46	19.19	19.22	18.46	18.19	18.22
				1	1	22.25	22.09	22.04	19.95	19.79	19.74	18.95	18.79	18.74
				1	104	22.32	21.96	22.33	20.02	19.66	20.03	19.02	18.66	19.03
				1	105	21.81	21.54	21.76	19.51	19.24	19.46	18.51	18.24	18.46
				50	25	22.14	21.96	21.99	19.84	19.66	19.69	18.84	18.66	18.69
				100	0	22.2	22.06	22.05	19.90	19.76	19.75	18.90	18.76	18.75
	QPSK			1	0	21.79	21.49	21.67	19.49	19.19	19.37	18.49	18.19	18.37
				1	1	22.28	21.99	22.04	19.98	19.69	19.74	18.98	18.69	18.74
				1	104	22.33	21.96	22.2	20.03	19.66	19.90	19.03	18.66	18.90
				1	105	21.76	21.46	21.74	19.46	19.16	19.44	18.46	18.16	18.44
				50	25	22.18	21.91	21.98	19.88	19.61	19.68	18.88	18.61	18.68
				100	0	22.17	22.03	22.02	19.87	19.73	19.72	18.87	18.73	18.72
	16QAM			1	0	21.72	21.6	21.63	19.42	19.30	19.33	18.42	18.30	18.33
				1	1	22.23	22.09	22.03	19.93	19.79	19.73	18.93	18.79	18.73
				1	104	22.24	22.08	22.32	19.94	19.78	20.02	18.94	18.78	19.02
				1	105	21.73	21.57	21.8	19.43	19.27	19.50	18.43	18.27	18.50
				50	25	22.14	21.92	21.94	19.84	19.62	19.64	18.84	18.62	18.64
				100	0	22.24	21.98	22.03	19.94	19.68	19.73	18.94	18.68	18.73
	64QAM			1	0	21.47	21.08	21.21	19.17	18.78	18.91	18.17	17.78	17.91
				1	1	21.89	21.6	21.73	19.59	19.30	19.43	18.59	18.30	18.43
				1	104	21.99	21.51	21.99	19.69	19.21	19.69	18.69	18.21	18.69
				1	105	21.46	21.08	21.49	19.16	18.78	19.19	18.16	17.78	18.19
				50	25	22.3	21.92	22.01	20.00	19.62	19.71	19.00	18.62	18.71
				100	0	22.23	22	22.06	19.93	19.70	19.76	18.93	18.70	18.76
	256QAM			1	0	20.54	20.45	20.43	18.24	18.15	18.13	17.24	17.15	17.13
				1	1	20.57	20.47	20.4	18.27	18.17	18.10	17.27	17.17	17.10
				1	104	20.68	20.36	20.68	18.38	18.06	18.38	17.38	17.06	17.38
				1	105	20.64	20.36	20.66	18.34	18.06	18.36	17.34	17.06	17.36
				50	25	20.67	20.48	20.5	18.37	18.18	18.20	17.37	17.18	17.20
				100	0	20.78	20.37	20.52	18.48	18.07	18.22	17.48	17.07	17.22
Bandwidth (MHz)	Modulation	Modulation (LTE)	SCS (KHz)	RB	RB	Channel/Frequency(MHz)			Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				Allocation	Offset	648666	656000	663334	648666	656000	663334	648666	656000	663334
						3730	3840	3950	3730	3840	3950	3730	3840	3950
60	BPSK	Band2-5MHz-1880MHz-QPSK-1#0	30	1	0	21.86	21.14	21.01	19.56	18.84	18.71	18.56	17.84	17.71
				1	1	22.41	21.84	21.63	20.11	19.54	19.33	19.11	18.54	18.33
				1	160	22.11	21.71	21.88	19.81	19.41	19.58	18.81	18.41	18.58
				1	161	21.44	21.17	21.39	19.14	18.87	19.09	18.14	17.87	18.09
				81	40	22.18	21.72	21.83	19.88	19.42	19.53	18.88	18.42	18.53
				162	0	22.17	21.77	21.68	19.87	19.47	19.38	18.87	18.47	18.38



	QPSK			1	0	21.8	21.27	20.93	19.50	18.97	18.63	18.50	17.97	17.63
				1	1	22.47	21.82	21.61	20.17	19.52	19.31	19.17	18.52	18.31
				1	160	22.05	21.76	21.99	19.75	19.46	19.69	18.75	18.46	18.69
				1	161	21.5	21.2	21.37	19.20	18.90	19.07	18.20	17.90	18.07
				81	40	22.29	21.77	21.68	19.99	19.47	19.38	18.99	18.47	18.38
				162	0	22.16	21.75	21.74	19.86	19.45	19.44	18.86	18.45	18.44
	16QAM			1	0	21.83	21.43	21.05	19.53	19.13	18.75	18.53	18.13	17.75
				1	1	22.47	22.07	21.59	20.17	19.77	19.29	19.17	18.77	18.29
				1	160	22.16	21.91	21.92	19.86	19.61	19.62	18.86	18.61	18.62
				1	161	21.6	21.33	21.33	19.30	19.03	19.03	18.30	18.03	18.03
				81	40	22.21	21.7	21.48	19.91	19.40	19.18	18.91	18.40	18.18
				162	0	22.26	21.8	21.71	19.96	19.50	19.41	18.96	18.50	18.41
	64QAM			1	0	21.39	20.78	20.56	19.09	18.48	18.26	18.09	17.48	17.26
				1	1	21.95	21.33	21.04	19.65	19.03	18.74	18.65	18.03	17.74
				1	160	21.65	21.24	21.39	19.35	18.94	19.09	18.35	17.94	18.09
				1	161	21.08	20.64	20.9	18.78	18.34	18.60	17.78	17.34	17.60
81		40	22.25	21.69	21.74	19.95	19.39	19.44	18.95	18.39	18.44			
162		0	22.21	21.77	21.73	19.91	19.47	19.43	18.91	18.47	18.43			
256QAM	1	0	20.7	20.06	19.79	18.40	17.76	17.49	17.40	16.76	16.49			
	1	1	20.66	20.13	19.83	18.36	17.83	17.53	17.36	16.83	16.53			
	1	160	20.43	19.95	20.17	18.13	17.65	17.87	17.13	16.65	16.87			
	1	161	20.37	19.89	20.1	18.07	17.59	17.80	17.07	16.59	16.80			
	81	40	20.72	20.24	20.26	18.42	17.94	17.96	17.42	16.94	16.96			
	162	0	20.66	20.2	20.17	18.36	17.90	17.87	17.36	16.90	16.87			
Bandwidth (MHz)	Modulation	Modulation (LTE)	SCS (KHz)	RB	RB	Channel/Frequency(MHz)			Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				Alloca	Off	649334	656000	662666	649334	656000	662666	649334	656000	662666
				tion	set	3740	3840	3940	3740	3840	3940	3740	3840	3940
80	BPSK	Band2-5MHz-1880MHz-QPSK-1#0	30	1	0	21.7	21.06	20.94	19.40	18.76	18.64	18.40	17.76	17.64
				1	1	22.17	21.71	21.53	19.87	19.41	19.23	18.87	18.41	18.23
				1	215	21.9	21.51	21.87	19.60	19.21	19.57	18.60	18.21	18.57
				1	216	21.43	21.05	21.37	19.13	18.75	19.07	18.13	17.75	18.07
				108	54	22.19	21.52	21.76	19.89	19.22	19.46	18.89	18.22	18.46
				216	0	22.12	21.58	21.61	19.82	19.28	19.31	18.82	18.28	18.31
	QPSK			1	0	21.7	21.22	21.02	19.40	18.92	18.72	18.40	17.92	17.72
				1	1	22.25	21.74	21.52	19.95	19.44	19.22	18.95	18.44	18.22
				1	215	21.97	21.56	21.93	19.67	19.26	19.63	18.67	18.26	18.63
				1	216	21.52	20.99	21.33	19.22	18.69	19.03	18.22	17.69	18.03
				108	54	22.1	21.54	21.76	19.80	19.24	19.46	18.80	18.24	18.46
				216	0	22.15	21.57	21.62	19.85	19.27	19.32	18.85	18.27	18.32
	16QAM			1	0	21.84	21.4	21.05	19.54	19.10	18.75	18.54	18.10	17.75
				1	1	22.37	21.83	21.65	20.07	19.53	19.35	19.07	18.53	18.35
				1	215	22.19	21.78	21.93	19.89	19.48	19.63	18.89	18.48	18.63
				1	216	21.61	21	21.38	19.31	18.70	19.08	18.31	17.70	18.08



Bandwidth (MHz)	Modulation	Modulation (LTE)	SCS (KHz)	RB Allocation	RB Offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)			Channel/Frequency(MHz)						
						650000	656000	662000	650000	656000	662000	650000	656000	662000				
100	64QAM	Band2-5MHz-1880MHz-QPSK-1#0	30	108	54	22.17	21.56	21.6	19.87	19.26	19.30	18.87	18.26	18.30				
				216	0	22.19	21.56	21.69	19.89	19.26	19.39	18.89	18.26	18.39				
				1	0	21.2	20.72	20.7	18.90	18.42	18.40	17.90	17.42	17.40				
				1	1	21.65	21.18	21.24	19.35	18.88	18.94	18.35	17.88	17.94				
				1	215	21.56	21.1	21.53	19.26	18.80	19.23	18.26	17.80	18.23				
				1	216	20.99	20.57	21	18.69	18.27	18.70	17.69	17.27	17.70				
				108	54	22.21	21.56	21.37	19.91	19.26	19.07	18.91	18.26	18.07				
				216	0	22.14	21.5	21.66	19.84	19.20	19.36	18.84	18.20	18.36				
				1	0	20.55	20.04	19.89	18.25	17.74	17.59	17.25	16.74	16.59				
				1	1	20.5	20.09	19.94	18.20	17.79	17.64	17.20	16.79	16.64				
				1	215	20.32	19.89	20.23	18.02	17.59	17.93	17.02	16.59	16.93				
				1	216	20.27	19.86	20.16	17.97	17.56	17.86	16.97	16.56	16.86				
	108			54	20.69	20.05	19.86	18.39	17.75	17.56	17.39	16.75	16.56					
	216			0	20.69	20.09	20.2	18.39	17.79	17.90	17.39	16.79	16.90					
	100			BPSK	Band2-5MHz-1880MHz-QPSK-1#0	30	1	0	22.06	21.43	21.33	19.76	19.13	19.03	18.76	18.13	18.03	
							1	1	22.66	22.13	21.85	20.36	19.83	19.55	19.36	18.83	18.55	
							1	271	22.37	22.09	22.46	20.07	19.79	20.16	19.07	18.79	19.16	
							1	272	21.7	21.44	21.8	19.40	19.14	19.50	18.40	18.14	18.50	
							135	67	22.46	21.87	21.99	20.16	19.57	19.69	19.16	18.57	18.69	
							270	0	22.44	21.89	21.87	20.14	19.59	19.57	19.14	18.59	18.57	
							1	0	22.12	21.6	21.34	19.82	19.30	19.04	18.82	18.30	18.04	
							1	1	22.74	22.11	21.82	20.44	19.81	19.52	19.44	18.81	18.52	
							1	271	22.24	22.06	22.44	19.94	19.76	20.14	18.94	18.76	19.14	
							1	272	21.82	21.49	21.82	19.52	19.19	19.52	18.52	18.19	18.52	
135		67	22.45				21.9	22.01	20.15	19.60	19.71	19.15	18.60	18.71				
270		0	22.43				21.93	22.08	20.13	19.63	19.78	19.13	18.63	18.78				
1		0	22.35	21.57			21.31	20.05	19.27	19.01	19.05	18.27	18.01					
1		1	22.86	22.09			21.9	20.56	19.79	19.60	19.56	18.79	18.60					
1		271	22.57	22.02			22.45	20.27	19.72	20.15	19.27	18.72	19.15					
1		272	21.88	21.46			21.84	19.58	19.16	19.54	18.58	18.16	18.54					
135		67	22.42	21.89			22.01	20.12	19.59	19.71	19.12	18.59	18.71					
270		0	22.41	21.95			22.02	20.11	19.65	19.72	19.11	18.65	18.72					
1		0	21.67	21.04			20.9	19.37	18.74	18.60	18.37	17.74	17.60					
1		1	22.11	21.6			21.44	19.81	19.30	19.14	18.81	18.30	18.14					
1		271	21.82	21.63			21.86	19.52	19.33	19.56	18.52	18.33	18.56					
1		272	21.27	21.08			21.42	18.97	18.78	19.12	17.97	17.78	18.12					
135		67	22.4	21.95			21.92	20.10	19.65	19.62	19.10	18.65	18.62					
270		0	22.45	21.91			22.02	20.15	19.61	19.72	19.15	18.61	18.72					
1	0	20.8	20.34	20.09	18.50	18.04	17.79	17.50	17.04	16.79								
1	1	20.83	20.38	20.13	18.53	18.08	17.83	17.53	17.08	16.83								
256QAM	64QAM	Band2-5MHz-1880MHz-QPSK-1#0	30	108	54	22.21	21.56	21.37	19.91	19.26	19.07	18.91	18.26	18.07				
				216	0	22.14	21.5	21.66	19.84	19.20	19.36	18.84	18.20	18.36				
				1	0	20.55	20.04	19.89	18.25	17.74	17.59	17.25	16.74	16.59				
				1	1	20.5	20.09	19.94	18.20	17.79	17.64	17.20	16.79	16.64				
				1	215	20.32	19.89	20.23	18.02	17.59	17.93	17.02	16.59	16.93				
				1	216	20.27	19.86	20.16	17.97	17.56	17.86	16.97	16.56	16.86				
				108	54	20.69	20.05	19.86	18.39	17.75	17.56	17.39	16.75	16.56				
				216	0	20.69	20.09	20.2	18.39	17.79	17.90	17.39	16.79	16.90				
				256QAM	256QAM	Band2-5MHz-1880MHz-QPSK-1#0	30	108	54	22.21	21.56	21.37	19.91	19.26	19.07	18.91	18.26	18.07
								216	0	22.14	21.5	21.66	19.84	19.20	19.36	18.84	18.20	18.36
								1	0	20.55	20.04	19.89	18.25	17.74	17.59	17.25	16.74	16.59
								1	1	20.5	20.09	19.94	18.20	17.79	17.64	17.20	16.79	16.64
1	215							20.32	19.89	20.23	18.02	17.59	17.93	17.02	16.59	16.93		
1	216							20.27	19.86	20.16	17.97	17.56	17.86	16.97	16.56	16.86		
108	54							20.69	20.05	19.86	18.39	17.75	17.56	17.39	16.75	16.56		
216	0							20.69	20.09	20.2	18.39	17.79	17.90	17.39	16.79	16.90		



				1	271	20.62	20.18	20.75	18.32	17.88	18.45	17.32	16.88	17.45
				1	272	20.48	20.13	20.7	18.18	17.83	18.40	17.18	16.83	17.40
				135	67	20.86	20.36	20.39	18.56	18.06	18.09	17.56	17.06	17.09
				270	0	20.96	20.42	20.52	18.66	18.12	18.22	17.66	17.12	17.22



6.2 Occupied Bandwidth

NR n77 subset 1						
RB	Modulation	Bandwidth	Channel	Frequency	99% Power	-26dBc Bandwidth(MHz)
		(MHz)			Bandwidth(MHz)	
100%	BPSK	100	633334	3500	96.3530	99.710
	QPSK	100	633334	3500	96.4490	99.730
	16QAM	100	633334	3500	96.6130	99.780
	64QAM	100	633334	3500	96.3840	99.740
	256QAM	100	633334	3500	96.2730	99.900
1	BPSK	100	633334	3500	2.4409	3.301
	QPSK	100	633334	3500	2.4740	3.379
	16QAM	100	633334	3500	2.6123	3.485
	64QAM	100	633334	3500	2.3944	3.174
	256QAM	100	633334	3500	2.4563	3.382

DC_2A-n77A subset 1						
RB	Modulation	Bandwidth	Channel	Frequency	99% Power	-26dBc Bandwidth
		(MHz)			Bandwidth	
100%	BPSK	100	633334	3500	96.265	99.68
	QPSK	100	633334	3500	95.924	99.48
	16QAM	100	633334	3500	96.194	99.67
	64QAM	100	633334	3500	96.099	99.47
	256QAM	100	633334	3500	95.924	99.48
1%	BPSK	100	633334	3500	2.5382	3.637
	QPSK	100	633334	3500	2.6977	3.638
	16QAM	100	633334	3500	2.465	3.477
	64QAM	100	633334	3500	2.6095	3.587
	256QAM	100	633334	3500	2.5011	3.481

NR n77 subset 2						
RB	Modulation	Bandwidth	Channel	Frequency	99% Power	-26dBc Bandwidth(MHz)
		(MHz)			Bandwidth(MHz)	
100%	BPSK	100	650000	3750	96.2220	99.490
			656000	3840	96.4340	99.520
			662000	3930	96.1850	99.690
	QPSK	100	650000	3750	96.3840	99.510
			656000	3840	96.3650	99.580
			662000	3930	96.2900	99.520
	16QAM	100	650000	3750	96.2630	99.880



1	64QAM	100	656000	3840	96.5020	99.530
			662000	3930	96.4850	99.480
			650000	3750	96.2400	99.640
			656000	3840	96.3150	99.670
			662000	3930	96.1350	99.450
			650000	3750	96.2990	99.630
	256QAM	100	656000	3840	96.3400	99.770
			662000	3930	96.1820	99.780
			650000	3750	2.4706	3.311
	BPSK	100	656000	3840	2.4105	3.320
			662000	3930	2.5789	3.406
			650000	3750	2.4311	3.322
	QPSK	100	656000	3840	2.3986	3.392
			662000	3930	2.3971	3.146
			650000	3750	2.4475	3.176
16QAM	100	656000	3840	2.484	3.542	
		662000	3930	2.3535	3.105	
		650000	3750	2.4105	3.159	
64QAM	100	656000	3840	2.2932	3.067	
		662000	3930	2.447	3.152	
		650000	3750	2.3996	3.528	
256QAM	100	656000	3840	2.4047	3.291	
		662000	3930	2.3097	3.268	

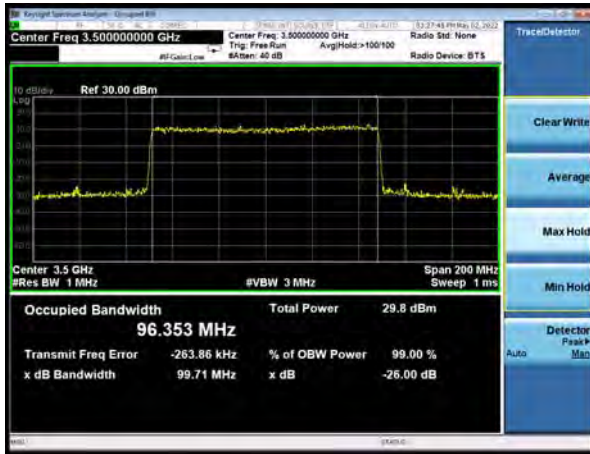
DC_2A-n77A subset 2						
RB	Modulation	Bandwidth	Channel	Frequency	99% Power	-26dBc
		(MHz)			Bandwidth(MHz)	Bandwidth(MHz)
100%	BPSK	100	650000	3750	95.8870	99.530
			656000	3840	96.4470	99.480
			662000	3930	96.4410	99.590
	QPSK	100	650000	3750	95.7550	99.150
			656000	3840	96.4060	99.490
			662000	3930	96.5880	99.520
	16QAM	100	650000	3750	95.7740	99.330
			656000	3840	96.5740	99.510
			662000	3930	96.6130	99.670
	64QAM	100	650000	3750	95.6370	99.310
			656000	3840	96.3550	99.420
			662000	3930	96.6250	99.720
	256QAM	100	650000	3750	95.7570	99.290
			656000	3840	96.3670	99.890
			662000	3930	96.5340	99.520



1	BPSK	100	650000	3750	2.5063	3.375
			656000	3840	2.3945	3.238
			662000	3930	2.3753	3.14
	QPSK	100	650000	3750	2.4387	3.277
			656000	3840	2.4868	3.365
			662000	3930	2.4990	3.395
	16QAM	100	650000	3750	2.4212	3.165
			656000	3840	2.4107	3.312
			662000	3930	2.4328	3.237
	64QAM	100	650000	3750	2.4961	3.331
			656000	3840	2.4786	3.413
			662000	3930	2.3762	3.218
	256QAM	100	650000	3750	2.3449	3.107
			656000	3840	2.4232	3.144
			662000	3930	2.4133	3.218



NR n77 subset 1AP1/2 BPSK 100%RB 100MHz CH-Middle



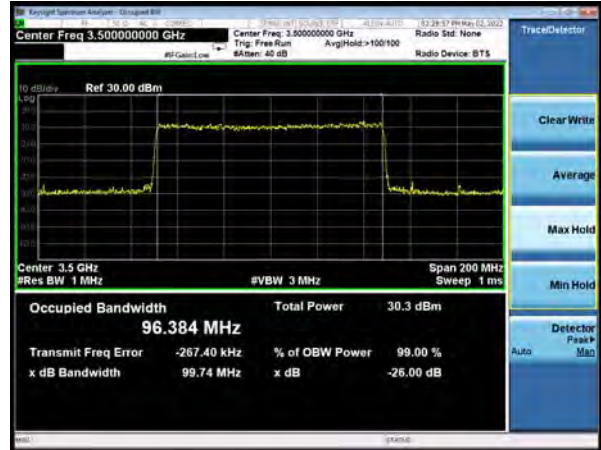
NR n77 subset 1AQPSK 100%RB 100MHz CH-Middle



NR n77 subset 1A16QAM 100%RB 100MHz CH-Middle



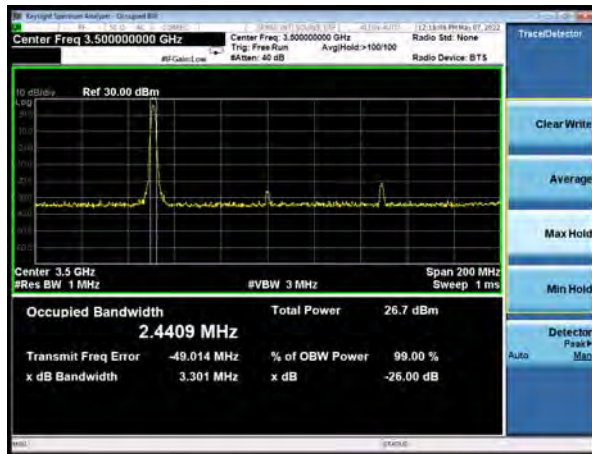
NR n77 subset 1A64QAM 100%RB 100MHz CH-Middle



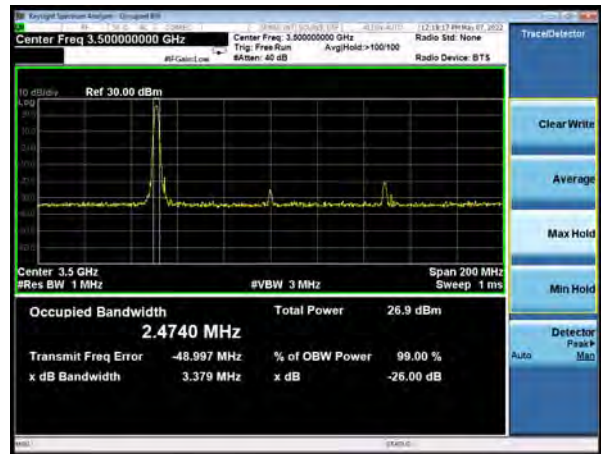
NR n77 subset 1A256QAM 100%RB 100MHz CH-Middle



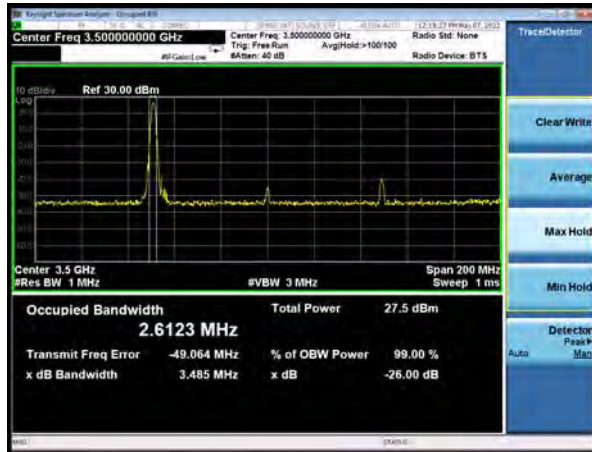
NR n77 subset 1AP1/2 BPSK 1RB 100MHz
CH-Middle



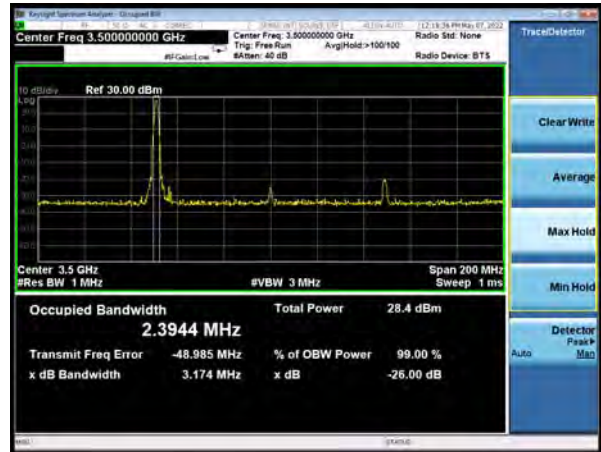
NR n77 subset 1AQPSK 1RB 100MHz
CH-Middle



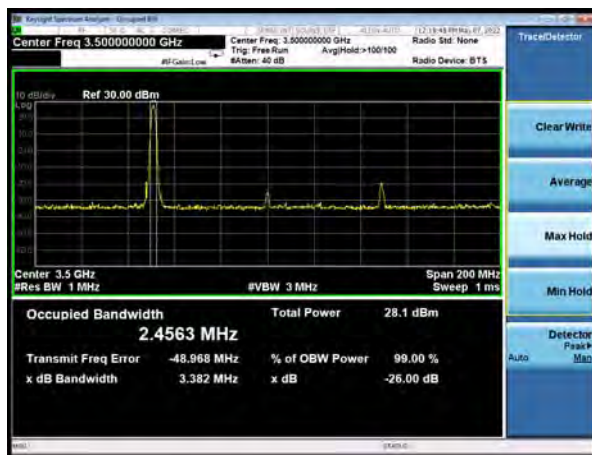
NR n77 subset 1A16QAM 1RB 100MHz
CH-Middle



NR n77 subset 1A64QAM 1RB 100MHz
CH-Middle

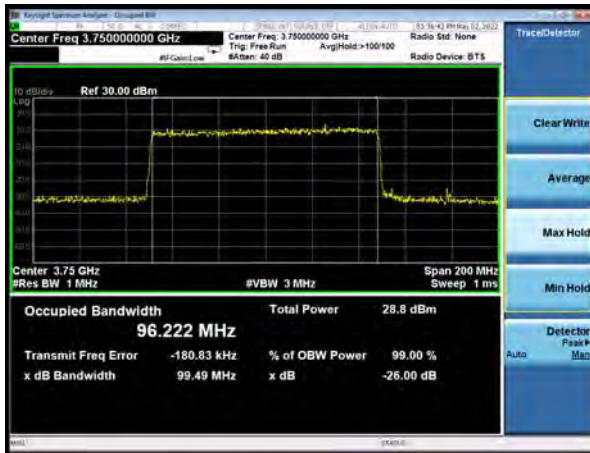


NR n77 subset 1A 256QAM 1RB 100MHz
CH-Middle





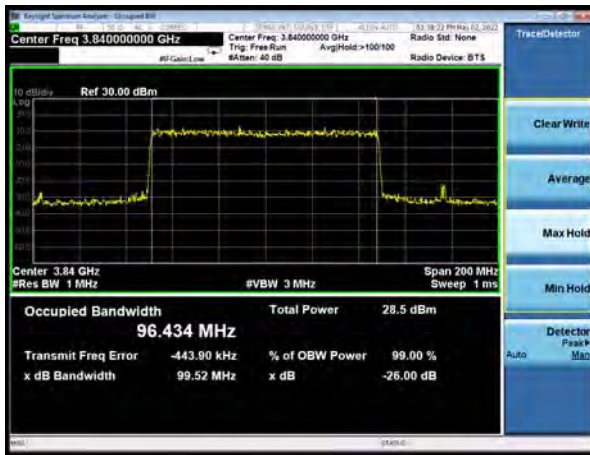
NR n77 subset 2AP1/2 BPSK 100%RB
100MHz CH-Low



NR n77 subset 2AQPSK 100%RB 100MHz
CH-Low



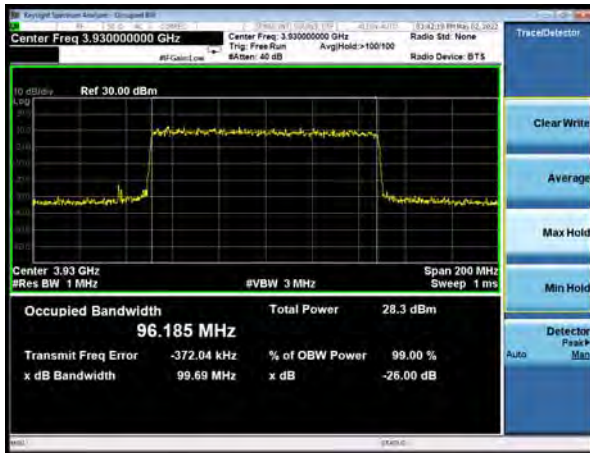
NR n77 subset 2AP1/2 BPSK 100%RB
100MHz CH-Middle



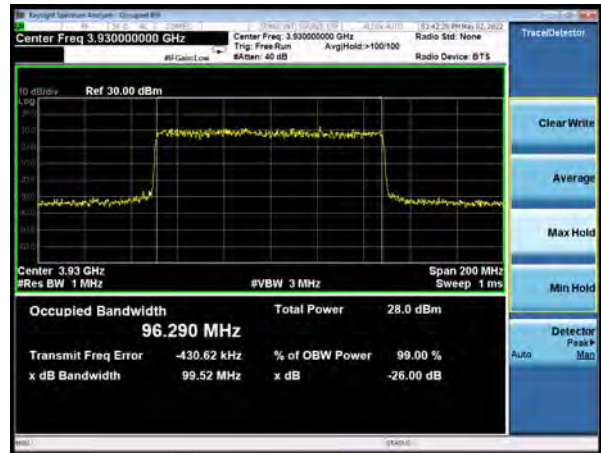
NR n77 subset 2AQPSK 100%RB 100MHz
CH-Middle



NR n77 subset 2AP1/2 BPSK 100%RB
100MHz CH-High

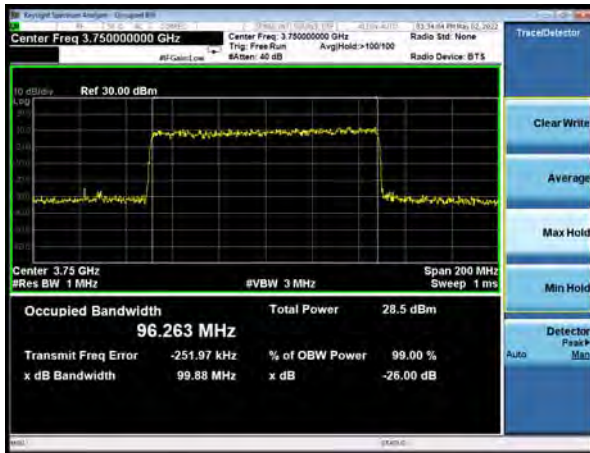


NR n77 subset 2AQPSK 100%RB 100MHz
CH-High

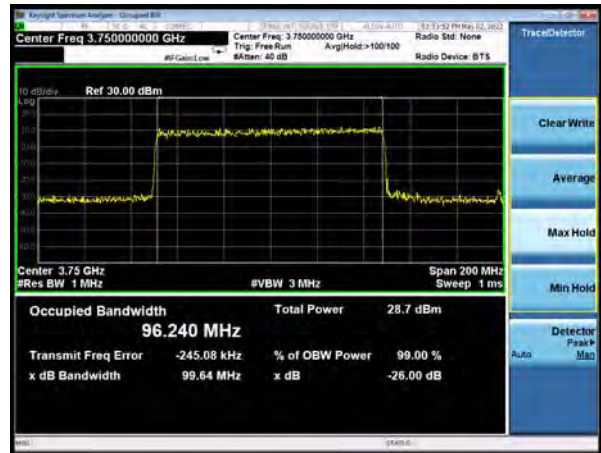




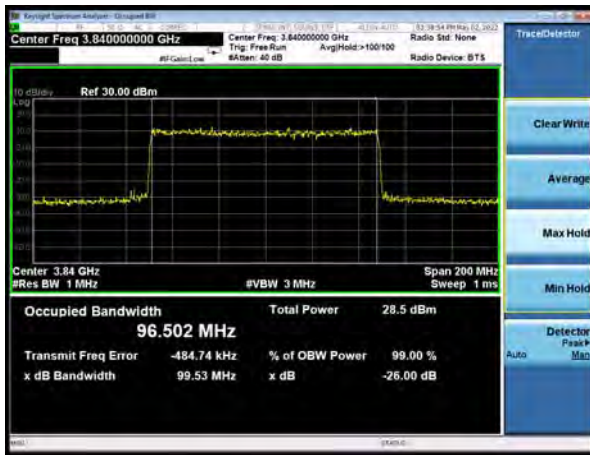
NR n77 subset 2A16QAM 100%RB 100MHz
CH-Low



NR n77 subset 2A64QAM 100%RB 100MHz
CH-Low



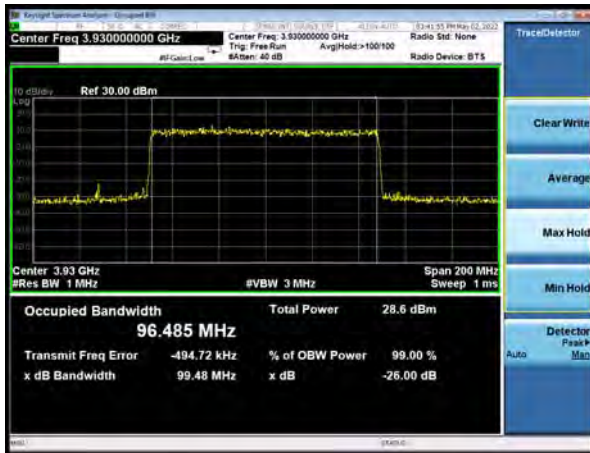
NR n77 subset 2A16QAM 100%RB 100MHz
CH-Middle



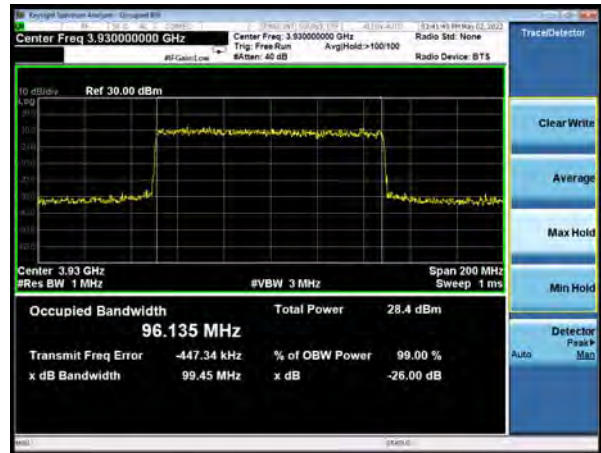
NR n77 subset 2A64QAM 100%RB 100MHz
CH-Middle



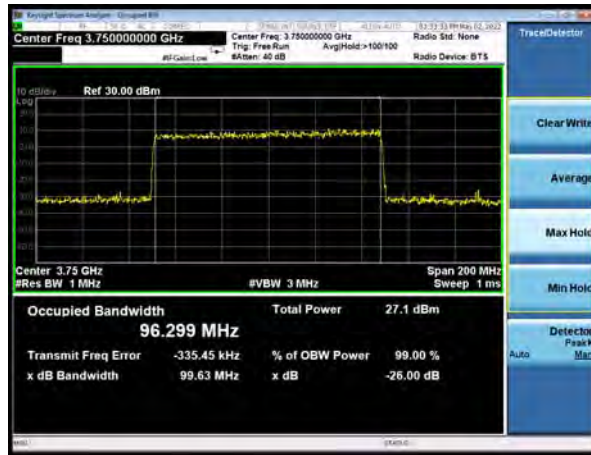
NR n77 subset 2A16QAM 100%RB 100MHz
CH-High



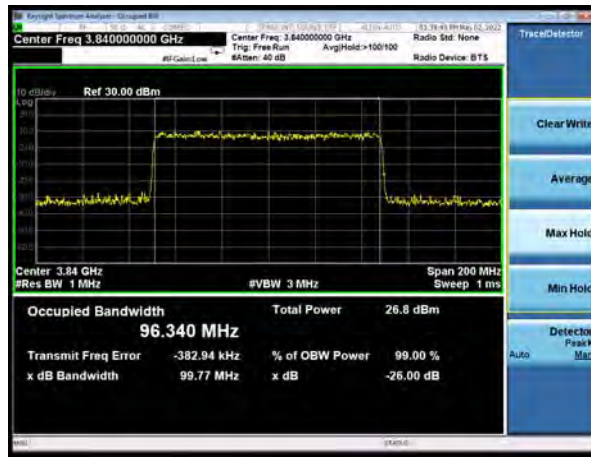
NR n77 subset 2A64QAM 100%RB 100MHz
CH-High



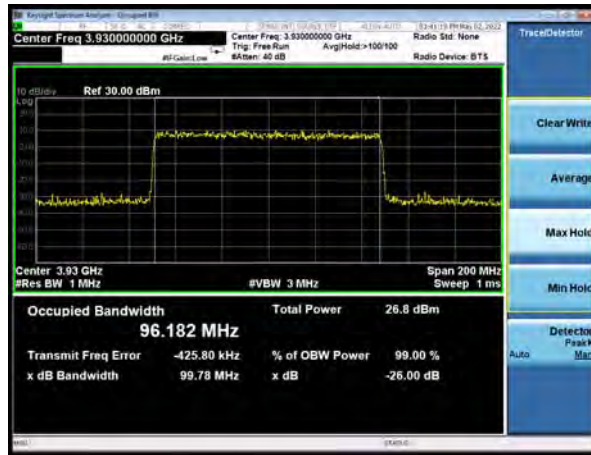
NR n77 subset 2A256QAM 100%RB 100MHz
CH-Low



NR n77 subset 2A256QAM 100%RB 100MHz
CH-Middle

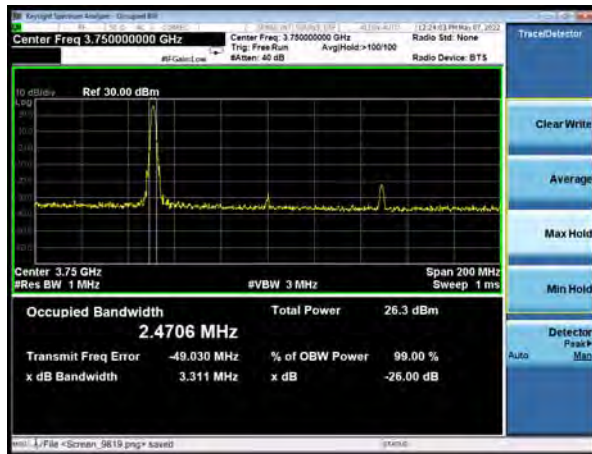


NR n77 subset 2A256QAM 100%RB 100MHz
CH-High





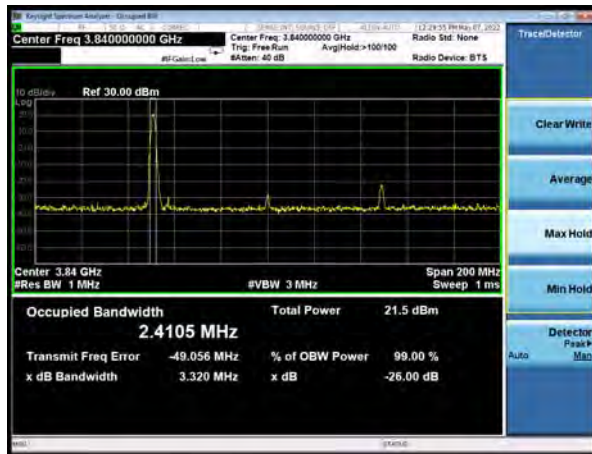
NR n77 subset 2AP1/2 BPSK 1RB 100MHz
CH-Low



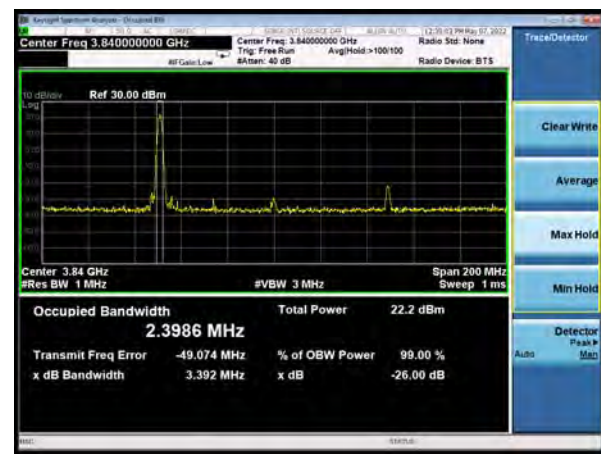
NR n77 subset 2AQPSK 1RB 100MHz
CH-Low



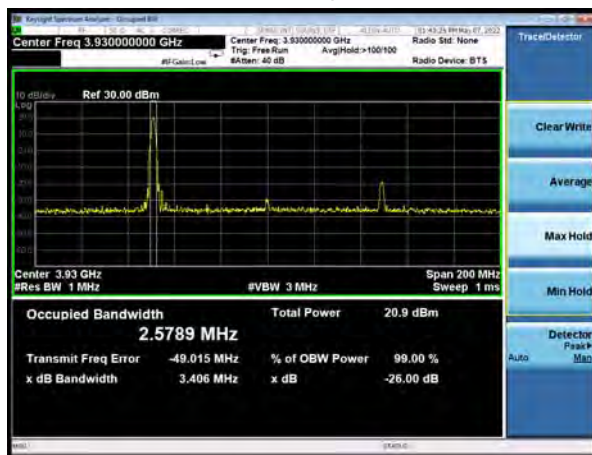
NR n77 subset 2AP1/2 BPSK 1RB 100MHz
CH-Middle



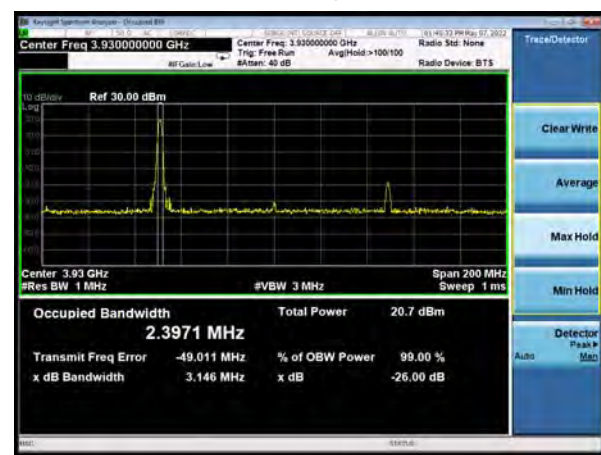
NR n77 subset 2AQPSK 1RB 100MHz
CH-Middle



NR n77 subset 2AP1/2 BPSK 1RB 100MHz
CH-High

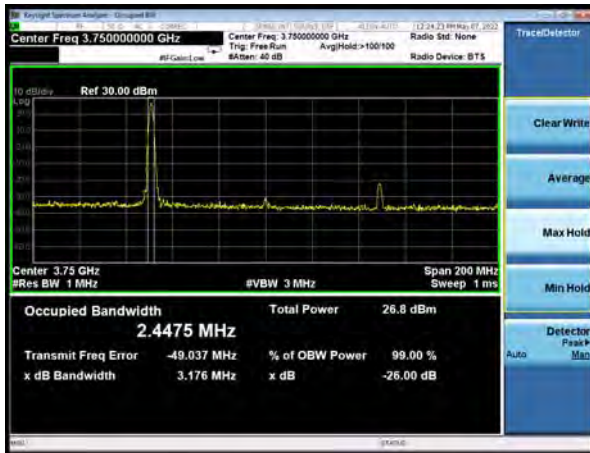


NR n77 subset 2AQPSK 1RB 100MHz
CH-High

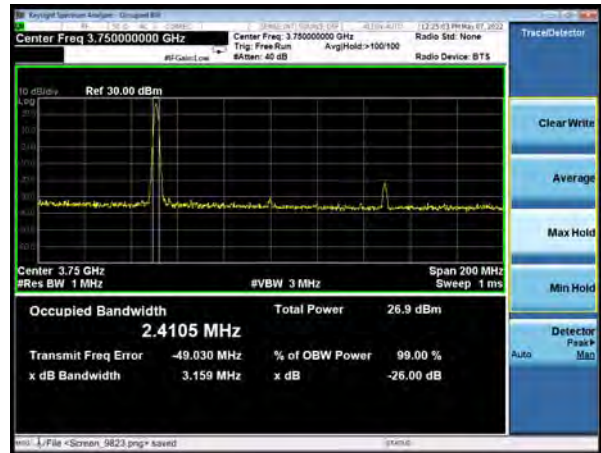




NR n77 subset 2A16QAM 1RB 100MHz
CH-Low



NR n77 subset 2A64QAM 1RB 100MHz
CH-Low



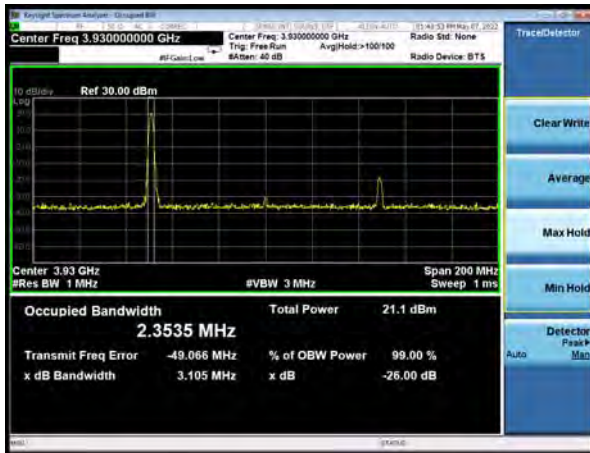
NR n77 subset 2A16QAM 1RB 100MHz
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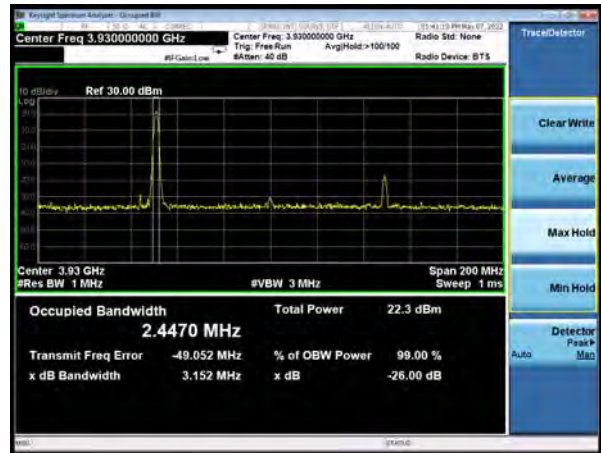
NR n77 subset 2A64QAM 1RB 100MHz
CH-Middle



NR n77 subset 2A16QAM 1RB 100MHz
CH-High



NR n77 subset 2A64QAM 1RB 100MHz
CH-High



NR n77 subset 2A 256QAM 1RB 100MHz
CH-Low



NR n77 subset 2A 256QAM 1RB 100MHz
CH-Middle

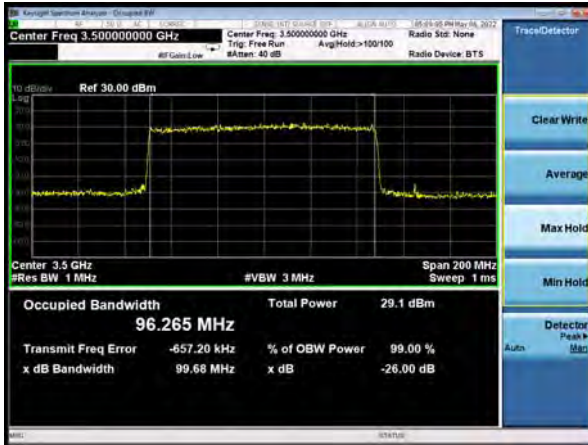


NR n77 subset 2A 256QAM 1RB 100MHz
CH-High

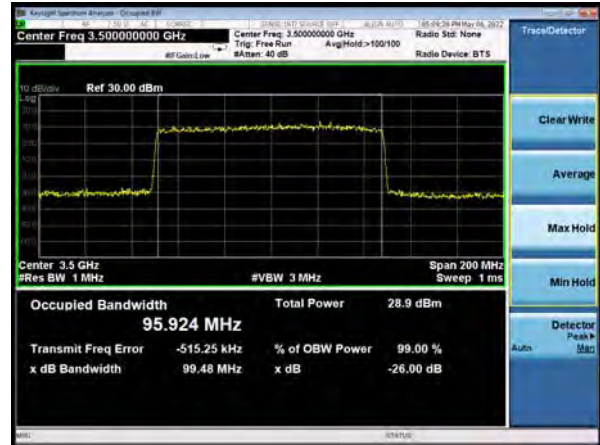




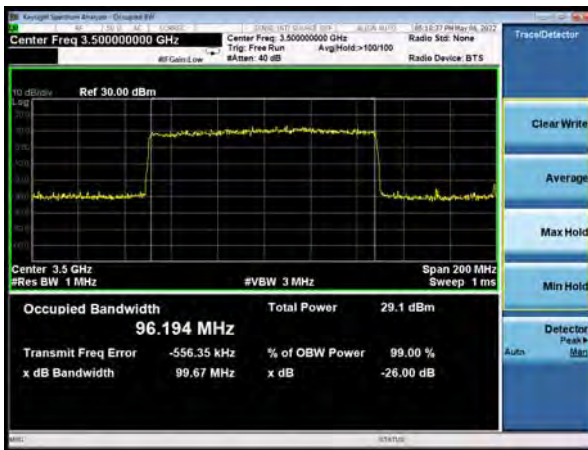
DC_2A-n77(subset 1)A P1/2 BPSK 100%RB
100MHz CH-Middle



DC_2A-n77(subset 1)A QPSK 100%RB
100MHz CH-Middle



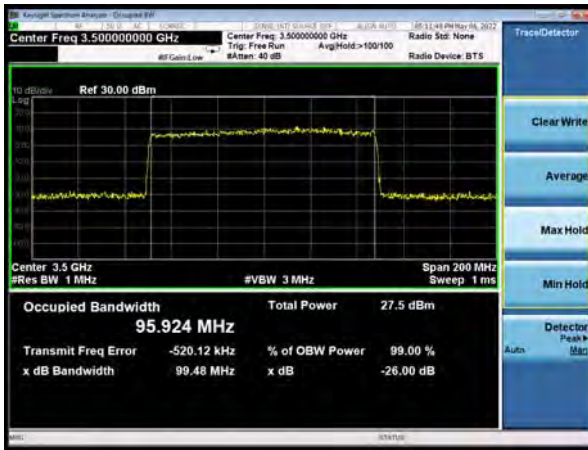
DC_2A-n77(subset 1)A 16QAM 100%RB
100MHz CH-Middle



DC_2A-n77(subset 1)A 64QAM 100%RB
100MHz CH-Middle

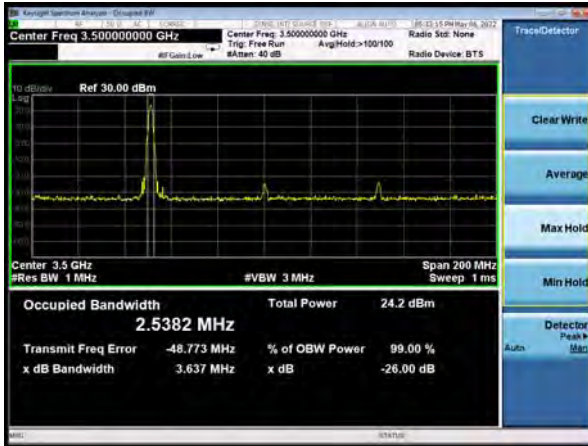


DC_2A-n77(subset 1)A 256QAM 100%RB
100MHz CH-Middle

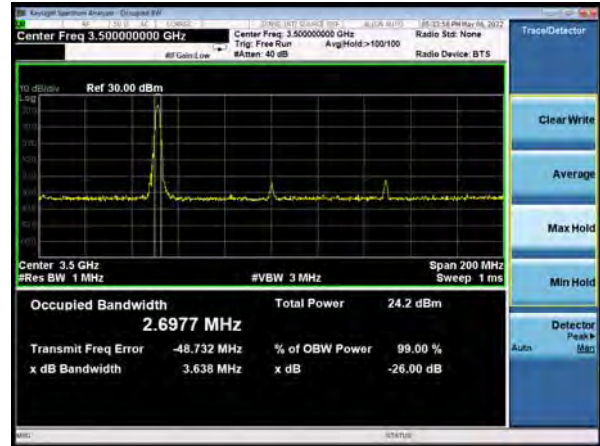




DC_2A-n77(subset 1)A P1/2 BPSK 1RB
100MHz CH-Middle



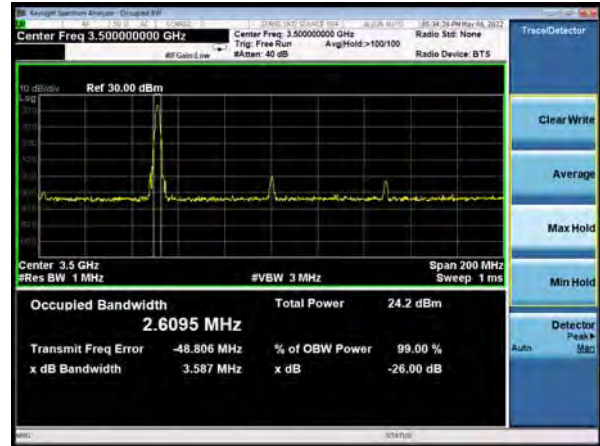
DC_2A-n77(subset 1)A QPSK 1RB 100MHz
CH-Middle



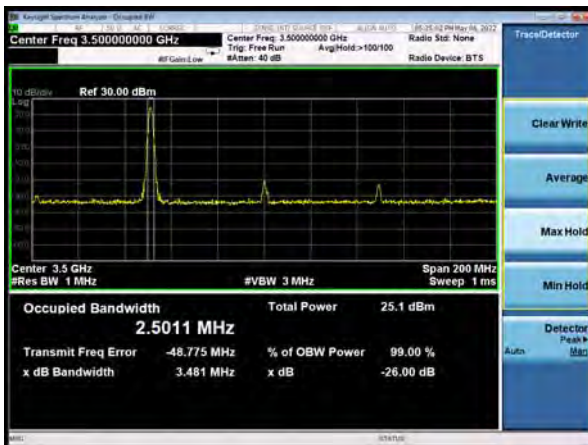
DC_2A-n77(subset 1)A 16QAM 1RB 100MHz
CH-Middle



DC_2A-n77(subset 1)A 64QAM 1RB 100MHz
CH-Middle

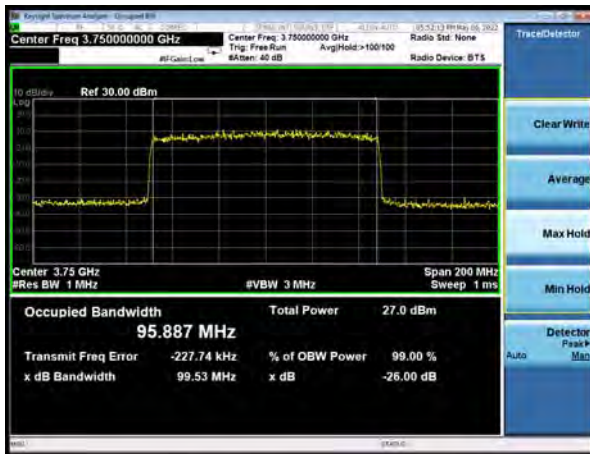


DC_2A-n77(subset 1)A 256QAM 1RB 100MHz
CH-Middle





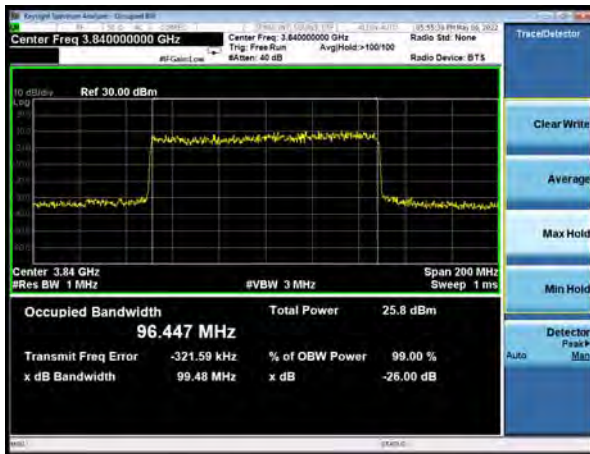
DC_2A-n77(subset 2)A P1/2 BPSK 100%RB
100MHz CH-Low



DC_2A-n77(subset 2) AQPSK 100%RB
100MHz CH-Low



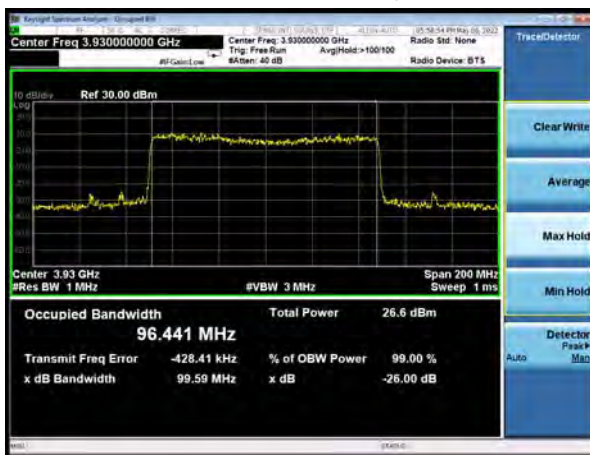
DC_2A-n77(subset 2)A P1/2 BPSK 100%RB
100MHz CH-Middle



DC_2A-n77(subset 2)AQPSK 100%RB
100MHz CH-Middle



DC_2A-n77(subset 2)A P1/2 BPSK 100%RB
100MHz CH-High



DC_2A-n77(subset 2)A QPSK 100%RB
100MHz CH-High





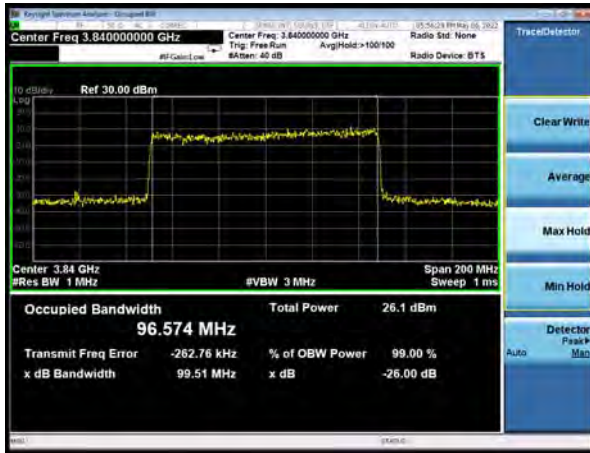
DC_2A-n77(subset 2)A 16QAM 100%RB
100MHz CH-Low



DC_2A-n77(subset 2)A 64QAM 100%RB
100MHz CH-Low



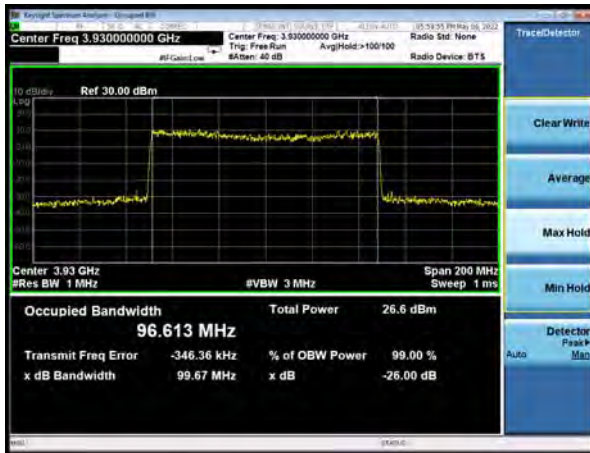
DC_2A-n77(subset 2)A 16QAM 100%RB
100MHz CH-Middle



DC_2A-n77(subset 2)A 64QAM 100%RB
100MHz CH-Middle



DC_2A-n77(subset 2)A 16QAM 100%RB
100MHz CH-High



DC_2A-n77(subset 2)A 64QAM 100%RB
100MHz CH-High



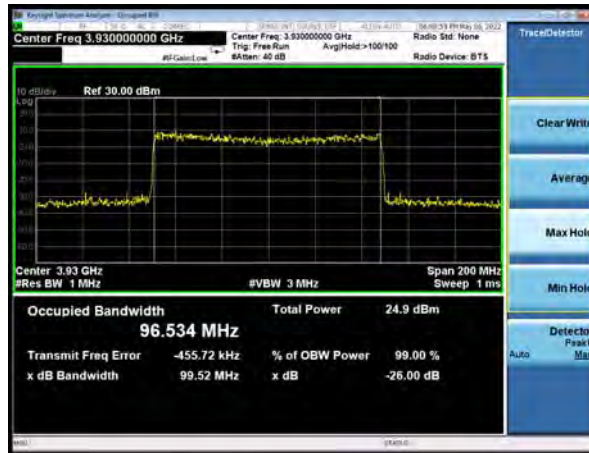
DC_2A-n77(subset 2)A 256QAM 100%RB
100MHz CH-Low



DC_2A-n77(subset 2)A 256QAM 100%RB
100MHz CH-Middle

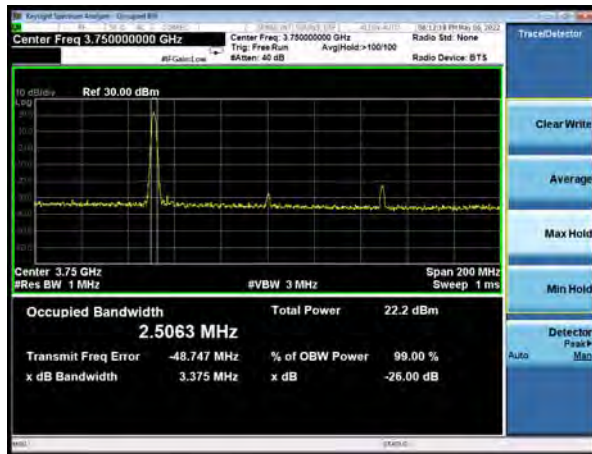


DC_2A-n77(subset 2)A 256QAM 100%RB
100MHz CH-High





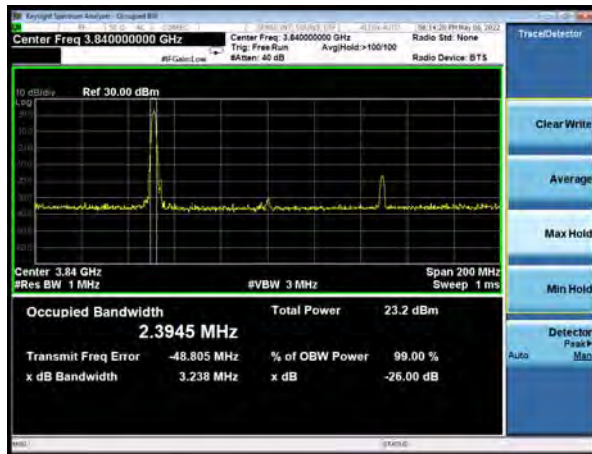
DC_2A-n77(subset 2)A P1/2 BPSK 1RB
100MHz CH-Low



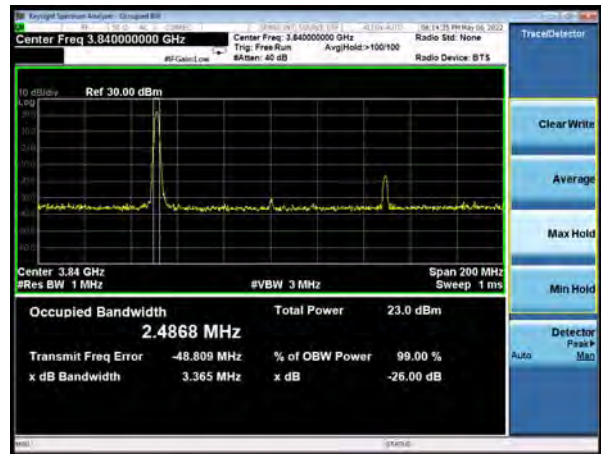
DC_2A-n77(subset 2)A QPSK 1RB 100MHz
CH-Low



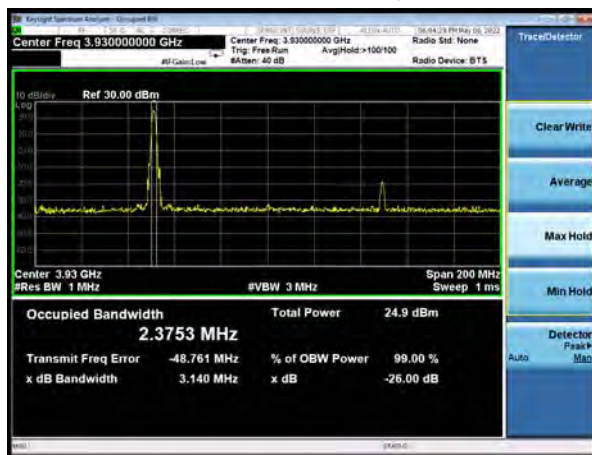
DC_2A-n77(subset 2)A P1/2 BPSK 1RB
100MHz CH-Middle



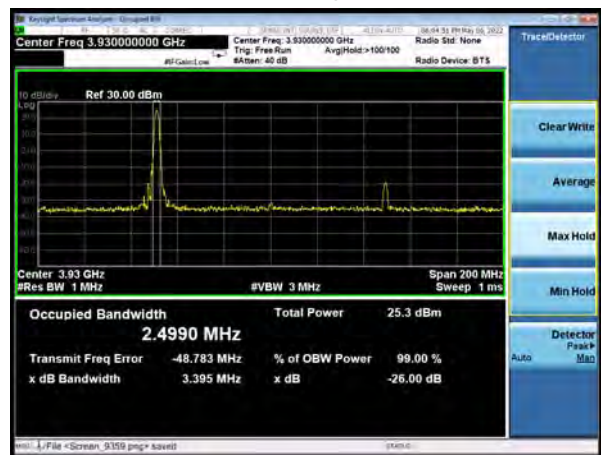
DC_2A-n77(subset 2)A QPSK 1RB 100MHz
CH-Middle

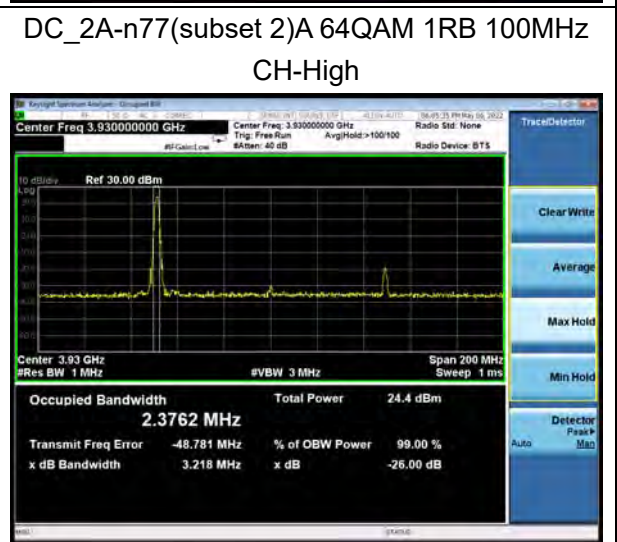
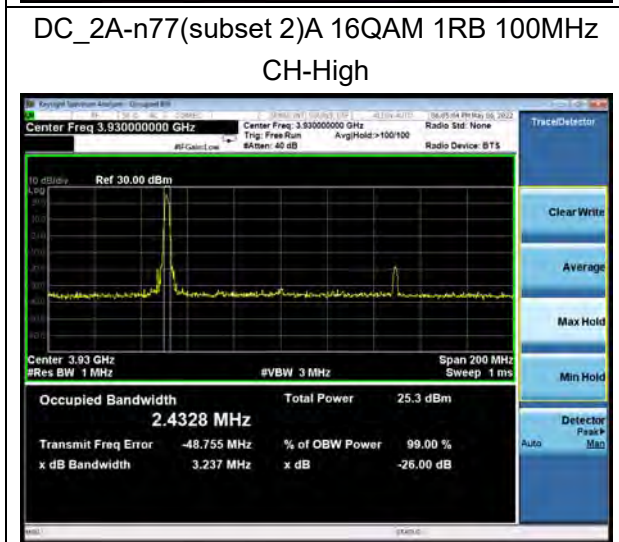
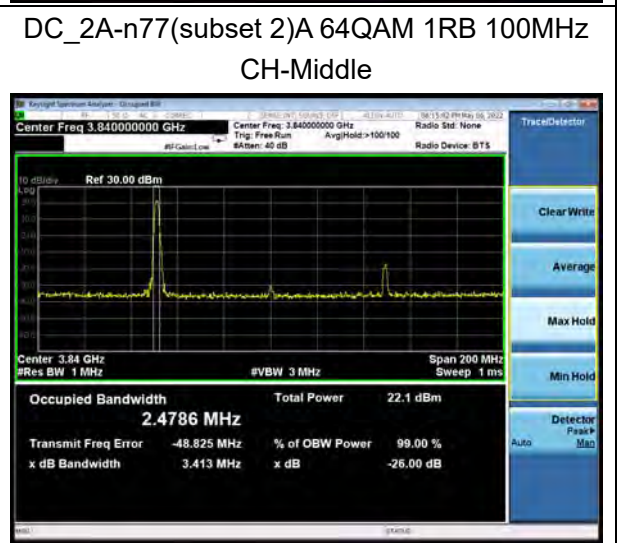
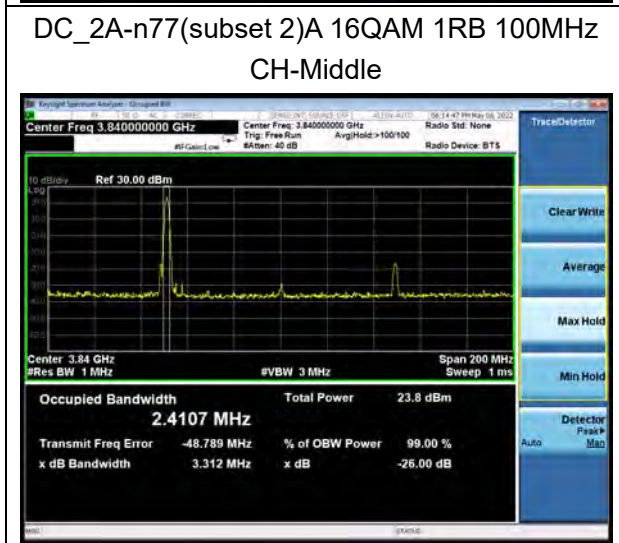
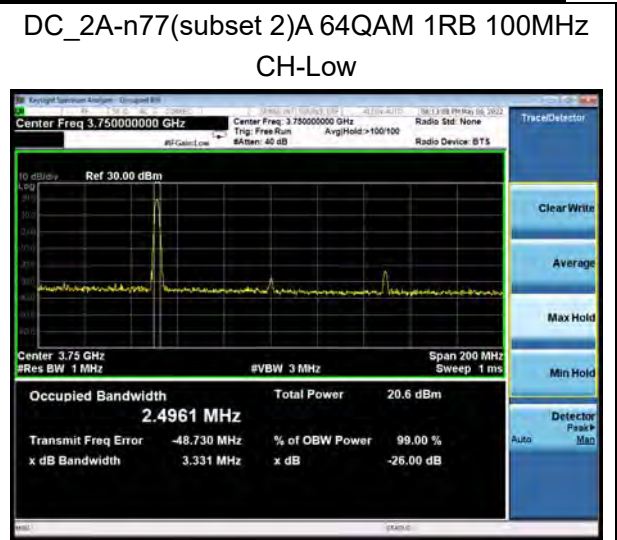
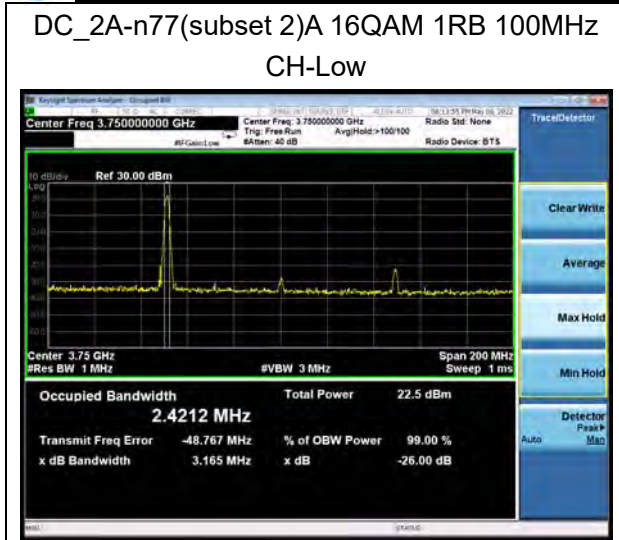


DC_2A-n77(subset 2)A P1/2 BPSK 1RB
100MHz CH-High

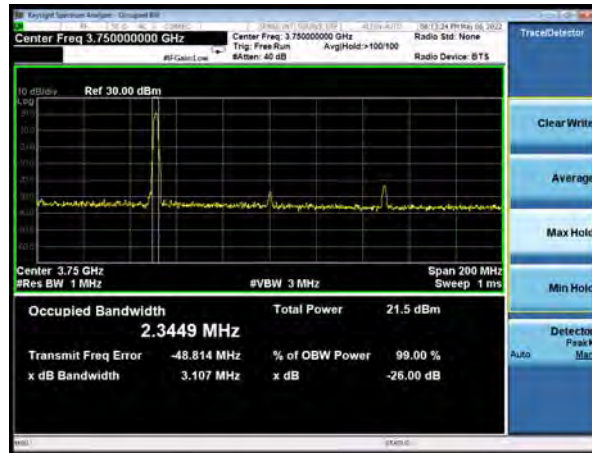


DC_2A-n77(subset 2)A QPSK 1RB 100MHz
CH-High

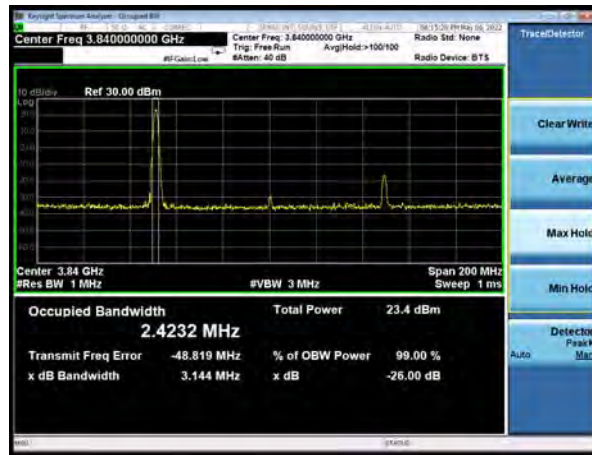




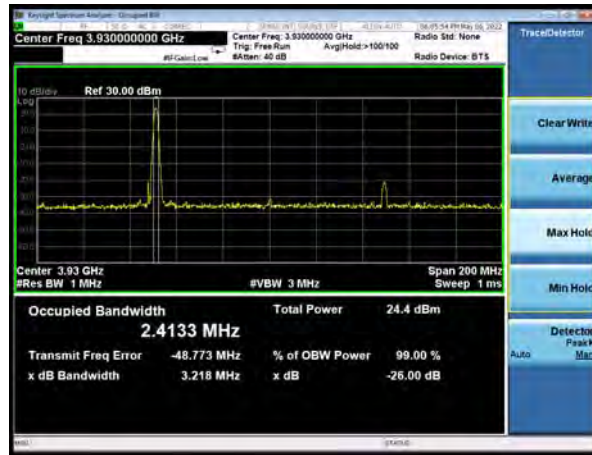
DC_2A-n77(subset 2)A 256QAM 1RB 100MHz
CH-Low



DC_2A-n77(subset 2)A 256QAM 1RB 100MHz
CH-Middle



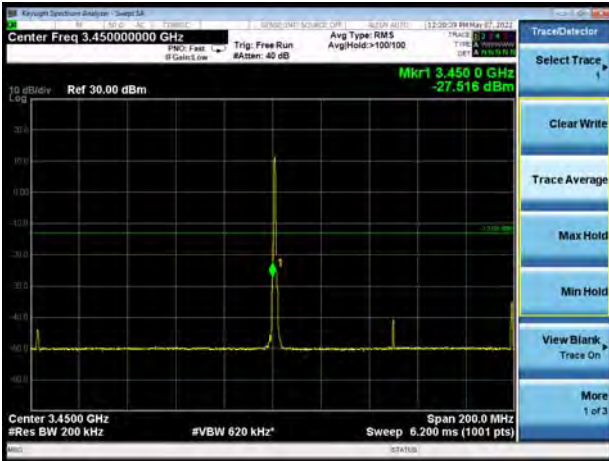
DC_2A-n77(subset 2)A 256QAM 1RB 100MHz
CH-High



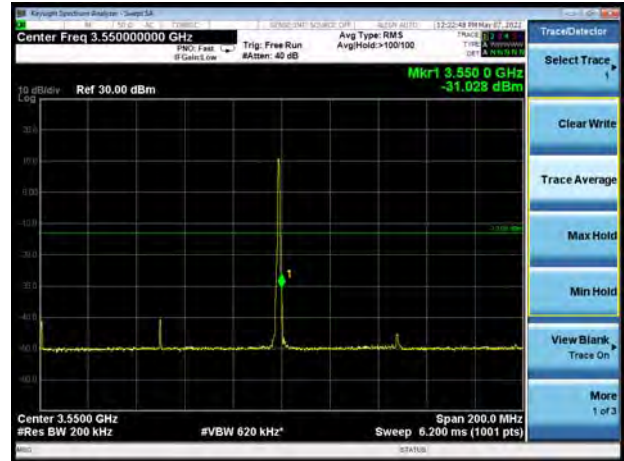
6.3 Band Edge Compliance

All the test traces in the plots shows the test results clearly.

NR n77 subset 1 P1/2 BPSK 100MHz CH-Low
1RB



NR n77 subset 1 P1/2 BPSK 100MHz CH-High
1RB



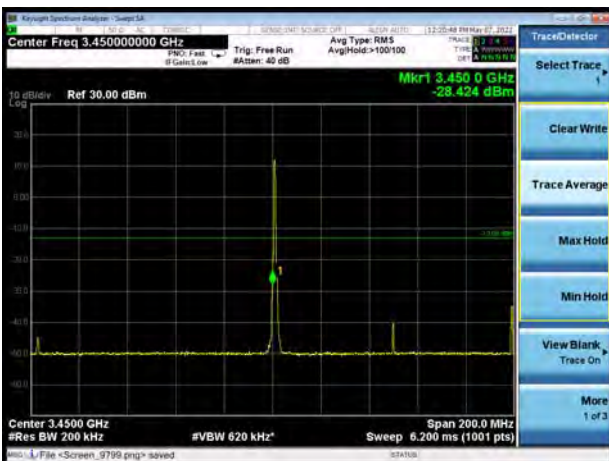
NR n77 subset 1 P1/2 BPSK 100MHz CH-Low
100%RB



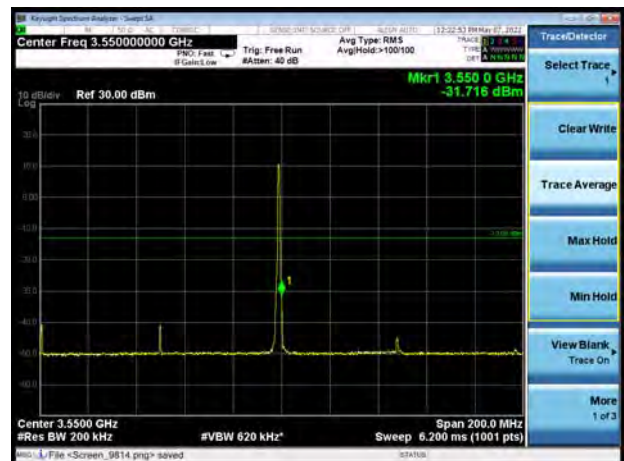
NR n77 subset 1 P1/2 BPSK 100MHz CH-High
100%RB



NR n77 subset 1 QPSK 100MHz CH-Low 1RB



NR n77 subset 1 QPSK 100MHz CH-High 1RB





NR n77 subset 1 QPSK 100MHz CH-Low
100%RB



NR n77 subset 1 QPSK 100MHz CH-High
100%RB



NR n77 subset 1 16QAM 100MHz CH-Low 1RB



NR n77 subset 1 16QAM 100MHz CH-High 1RB



NR n77 subset 1 16QAM 100MHz CH-Low
100%RB



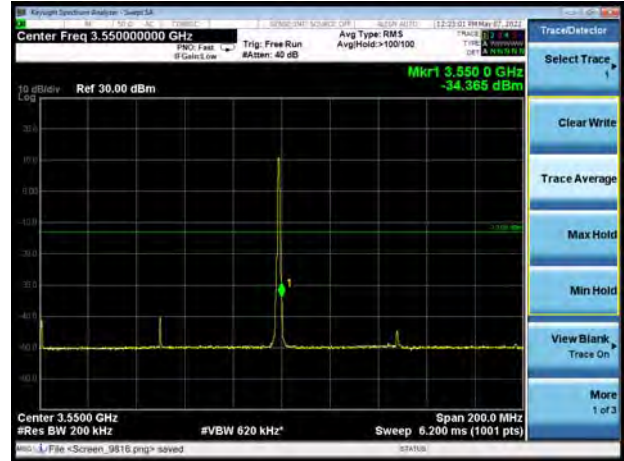
NR n77 subset 1 16QAM 100MHz CH-High
100%RB





NR n77 subset 1 64QAM 100MHz CH-Low 1RB

NR n77 subset 1 64QAM 100MHz CH-High 1RB



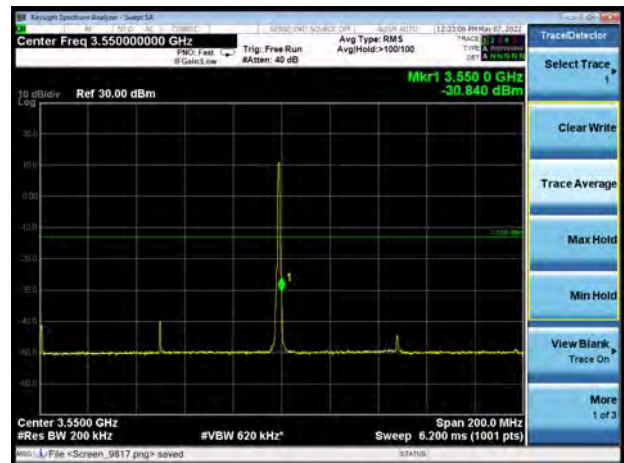
NR n77 subset 1 64QAM 100MHz CH-Low
100%RB

NR n77 subset 1 64QAM 100MHz CH-High
100%RB



NR n77 subset 1 256QAM 100MHz CH-Low 1RB

NR n77 subset 1 256QAM 100MHz CH-High 1RB





NR n77 subset 1 256QAM 100MHz CH-Low
100%RB

NR n77 subset 1 256QAM 100MHz CH-High
100%RB

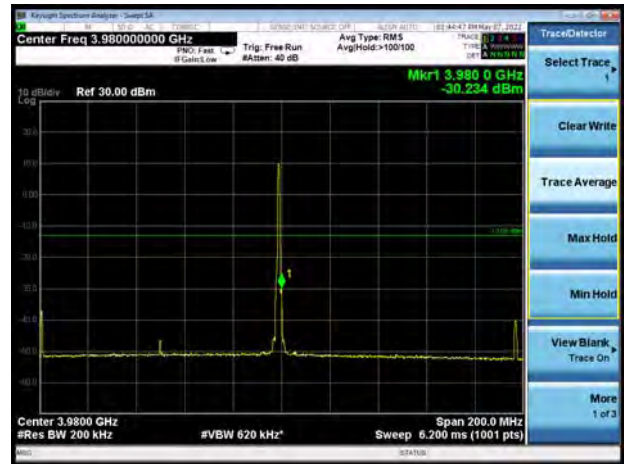




NR n77 subset 2 P1/2 BPSK 100MHz CH-Low 1RB



NR n77 subset 2 P1/2 BPSK 100MHz CH-High 1RB



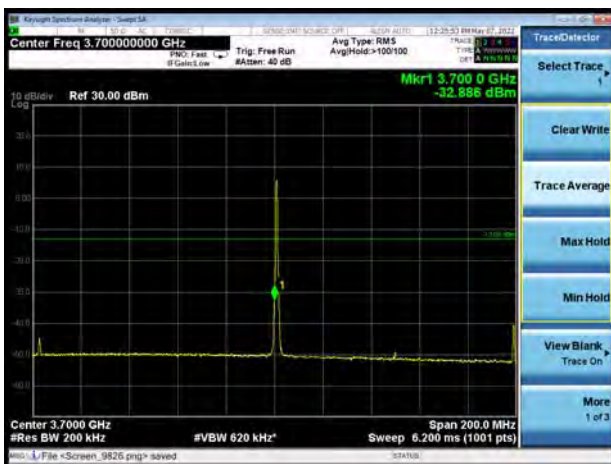
NR n77 subset 2 P1/2 BPSK 100MHz CH-Low 100%RB



NR n77 subset 2 P1/2 BPSK 100MHz CH-High 100%RB



NR n77 subset 2 QPSK 100MHz CH-Low 1RB



NR n77 subset 2 QPSK 100MHz CH-High 1RB





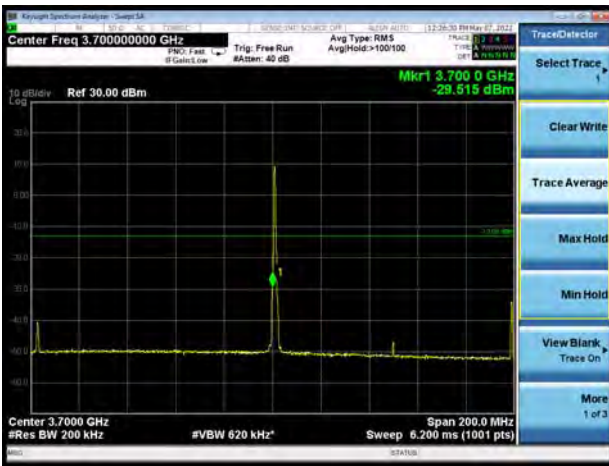
NR n77 subset 2 QPSK 100MHz CH-Low 100%RB

NR n77 subset 2 QPSK 100MHz CH-High 100%RB



NR n77 subset 2 16QAM 100MHz CH-Low 1RB

NR n77 subset 2 16QAM 100MHz CH-High 1RB



NR n77 subset 2 16QAM 100MHz CH-Low 100%RB

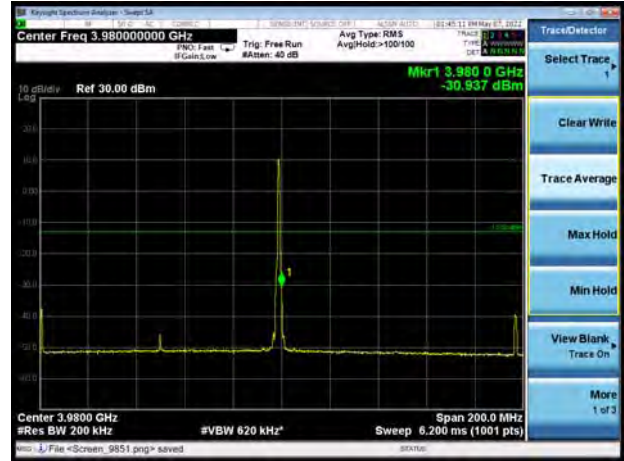
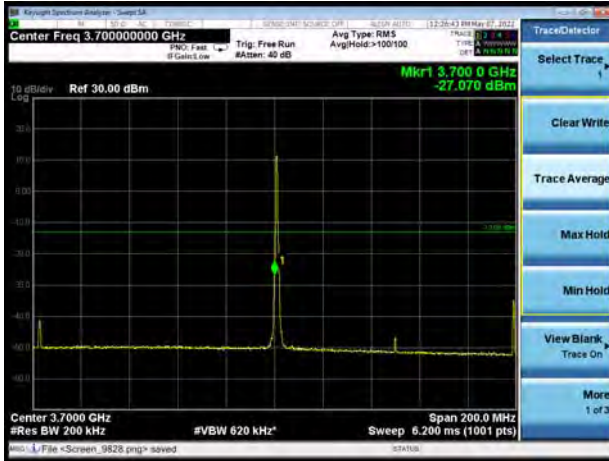
NR n77 subset 2 16QAM 100MHz CH-High 100%RB





NR n77 subset 2 64QAM 100MHz CH-Low 1RB

NR n77 subset 2 64QAM 100MHz CH-High 1RB



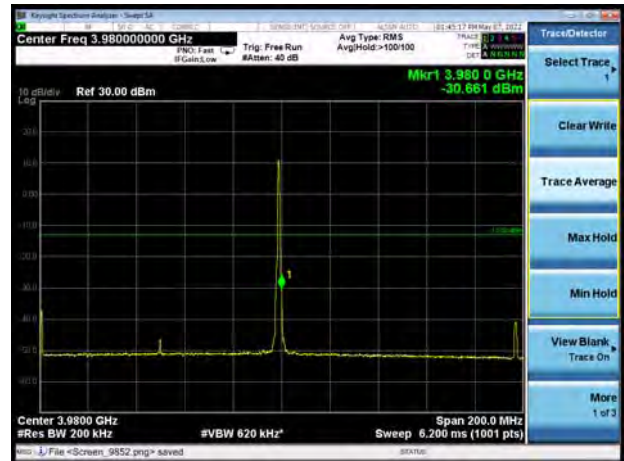
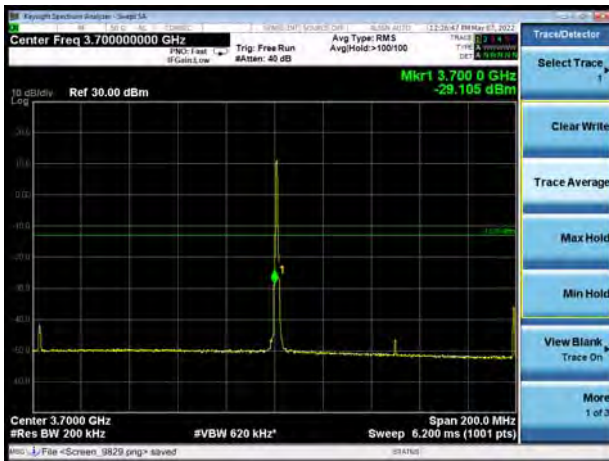
NR n77 subset 2 64QAM 100MHz CH-Low
100%RB

NR n77 subset 2 64QAM 100MHz CH-High
100%RB



NR n77 subset 2 256QAM 100MHz CH-Low 1RB

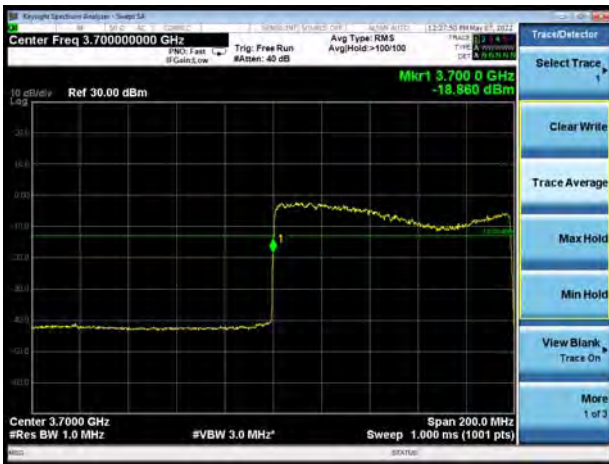
NR n77 subset 2 256QAM 100MHz CH-High 1RB





NR n77 subset 2 256QAM 100MHz CH-Low
100%RB

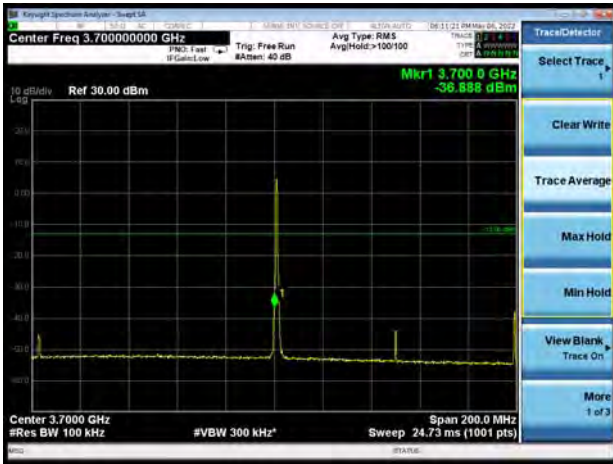
NR n77 subset 2 256QAM 100MHz CH-High
100%RB





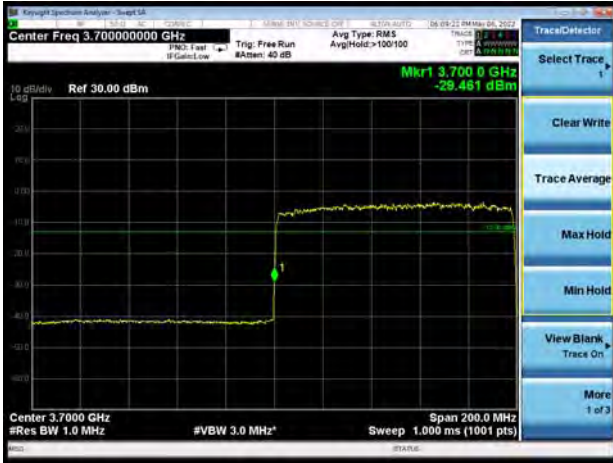
DC_2A-n77(subset 2)AP1/2 BPSK 100MHz
CH-Low 1RB

DC_2A-n77(subset 2)AP1/2 BPSK 100MHz
CH-High 1RB



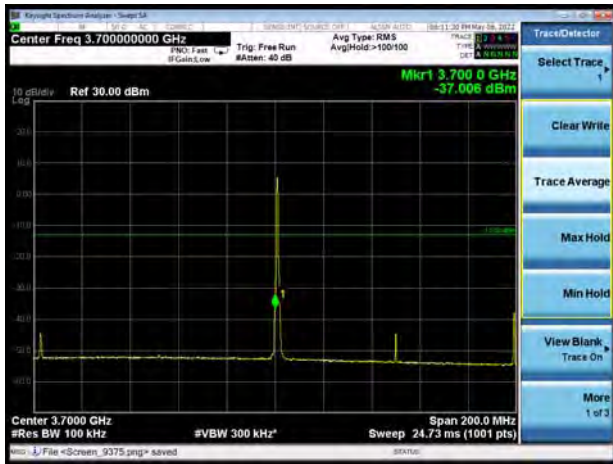
DC_2A-n77(subset 2)AP1/2 BPSK 100MHz
CH-Low 100%RB

DC_2A-n77(subset 2)AP1/2 BPSK 100MHz
CH-High 100%RB



DC_2A-n77(subset 2)AQPSK 100MHz CH-Low
1RB

DC_2A-n77(subset 2)AQPSK 100MHz CH-High
1RB





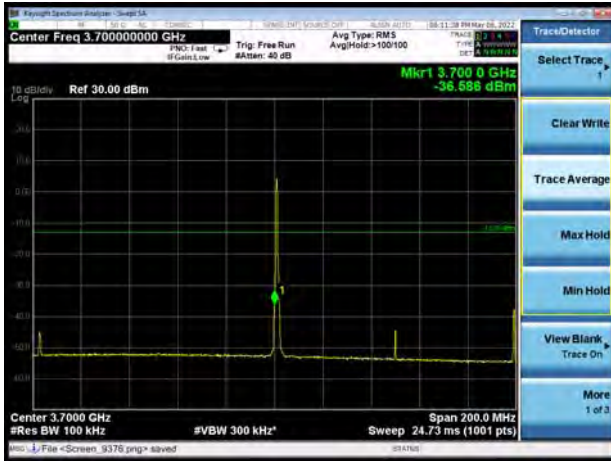
DC_2A-n77(subset 2)AQPSK 100MHz CH-Low
100%RB



DC_2A-n77(subset 2)AQPSK 100MHz CH-High
100%RB



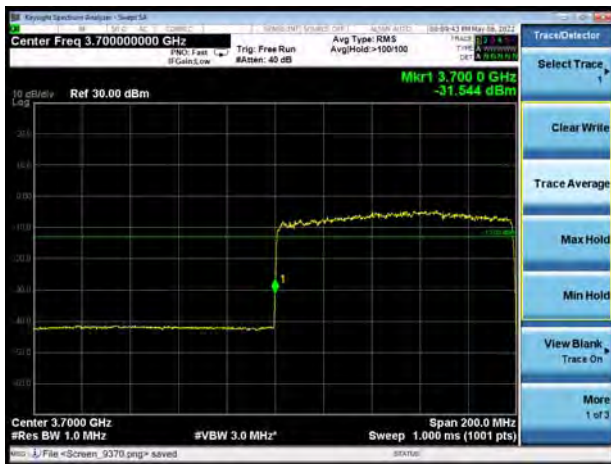
DC_2A-n77(subset 2)A16QAM 100MHz CH-Low
1RB



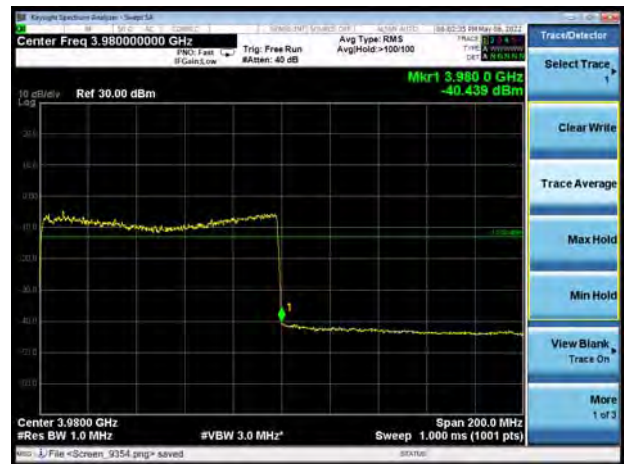
DC_2A-n77(subset 2)A16QAM 100MHz CH-High
1RB



DC_2A-n77(subset 2)A16QAM 100MHz CH-Low
100%RB



DC_2A-n77(subset 2)A16QAM 100MHz CH-High
100%RB

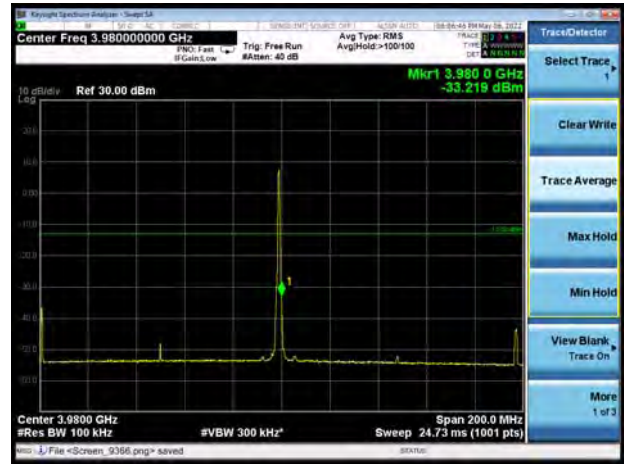




DC_2A-n77(subset 2)A64QAM 100MHz CH-Low 1RB



DC_2A-n77(subset 2)A64QAM 100MHz CH-High 1RB



DC_2A-n77(subset 2)A64QAM 100MHz CH-Low 100%RB



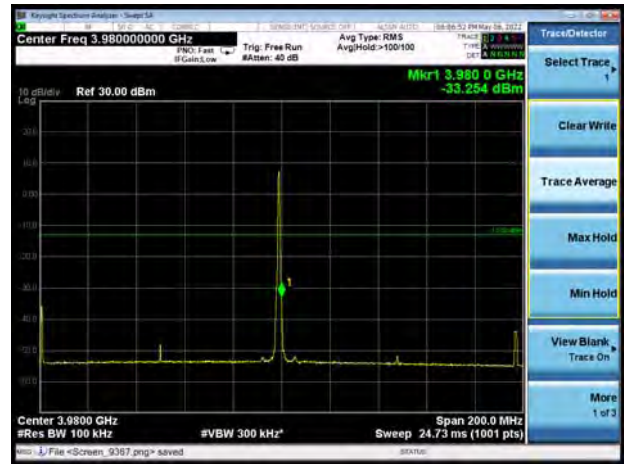
DC_2A-n77(subset 2)A64QAM 100MHz CH-High 100%RB



DC_2A-n77(subset 2)A256QAM 100MHz CH-Low 1RB



DC_2A-n77(subset 2)A256QAM 100MHz CH-High 1RB





DC_2A-n77(subset 2)A256QAM 100MHz
CH-Low 100%RB

DC_2A-n77(subset 2)A256QAM 100MHz
CH-High 100%RB





6.4 Peak-to-Average Power Ratio (PAPR)

NR n77 subset 1									
Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion	
100M	P1/2 BPSK	/	/	/	/	/	≤13	PASS	
		633334	3500	27.47	22.75	4.72	≤13	PASS	
		/	/	/	/	/	≤13	PASS	
	QPSK	/	/	/	/	/	/	≤13	PASS
		633334	3500	27.50	22.77	4.73	≤13	PASS	
		/	/	/	/	/	/	≤13	PASS
	16QAM	/	/	/	/	/	/	≤13	PASS
		633334	3500	28.44	22.79	5.65	≤13	PASS	
		/	/	/	/	/	/	≤13	PASS
	64QAM	/	/	/	/	/	/	≤13	PASS
		633334	3500	28.97	22.82	6.15	≤13	PASS	
		/	/	/	/	/	/	≤13	PASS
256QAM	/	/	/	/	/	/	≤13	PASS	
	633334	3500	28.00	21.28	6.72	≤13	PASS		
	/	/	/	/	/	/	≤13	PASS	

NR n77 subset 2								
Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
100M	P1/2 BPSK	650000	3750	27.25	22.35	4.90	≤13	PASS
		656000	3840	26.59	21.81	4.78	≤13	PASS
		662000	3930	26.82	22.01	4.81	≤13	PASS
	QPSK	650000	3750	27.17	22.28	4.89	≤13	PASS
		656000	3840	26.62	21.85	4.77	≤13	PASS
		662000	3930	26.76	21.94	4.82	≤13	PASS
	16QAM	650000	3750	28.07	22.31	5.76	≤13	PASS
		656000	3840	27.47	21.80	5.67	≤13	PASS
		662000	3930	27.65	21.91	5.74	≤13	PASS
	64QAM	650000	3750	28.41	22.26	6.15	≤13	PASS
		656000	3840	27.93	21.83	6.10	≤13	PASS
		662000	3930	28.09	21.97	6.12	≤13	PASS
	256QAM	650000	3750	27.53	20.83	6.70	≤13	PASS
		656000	3840	26.89	20.25	6.64	≤13	PASS
		662000	3930	27.00	20.41	6.59	≤13	PASS



DC_2A-n77A subset 2

Bandwidth (MHz)	Modulation (LTE)	Modulation	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
100M	Band2-5MHz-1880M Hz-QPSK-1#0	P1/2 BPSK	650000	3750	24.78	19.90	4.88	≤13	PASS
			656000	3840	24.20	19.56	4.64	≤13	PASS
			662000	3930	24.61	19.91	4.70	≤13	PASS
		QPSK	650000	3750	24.86	19.95	4.91	≤13	PASS
			656000	3840	24.20	19.58	4.62	≤13	PASS
			662000	3930	24.71	20.01	4.70	≤13	PASS
		16QAM	650000	3750	25.73	20.01	5.72	≤13	PASS
			656000	3840	25.18	19.59	5.59	≤13	PASS
			662000	3930	25.59	19.99	5.60	≤13	PASS
		64QAM	650000	3750	25.13	18.48	6.65	≤13	PASS
			656000	3840	24.65	18.09	6.56	≤13	PASS
			662000	3930	24.97	18.47	6.50	≤13	PASS
		256QAM	650000	3750	25.19	18.51	6.68	≤13	PASS
			656000	3840	24.55	18.04	6.51	≤13	PASS
			662000	3930	25.03	18.51	6.52	≤13	PASS



6.5 Frequency Stability

NR n77 subset 1												
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	20MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	13.86	3.58	8.44	9.86	7.58	0.00737	0.00191	0.00449	0.00525	0.00403	PASS
Extreme (50°C)		8.85	1.56	17.65	2.85	13.56	0.00470	0.00083	0.00939	0.00151	0.00721	PASS
Extreme (40°C)		15.78	16.42	2.15	12.78	6.42	0.00840	0.00873	0.00114	0.00680	0.00341	PASS
Extreme (30°C)		5.56	11.70	13.78	9.56	5.70	0.00296	0.00622	0.00733	0.00508	0.00303	PASS
Extreme (20°C)		2.38	16.35	3.91	5.38	15.35	0.00127	0.00870	0.00208	0.00286	0.00817	PASS
Extreme (10°C)		10.04	13.11	3.70	1.04	10.11	0.00534	0.00697	0.00197	0.00055	0.00538	PASS
Extreme (0°C)		10.04	4.13	13.80	17.04	8.13	0.00534	0.00220	0.00734	0.00906	0.00433	PASS
Extreme (-10°C)		8.89	17.66	3.94	12.89	11.66	0.00473	0.00939	0.00209	0.00686	0.00620	PASS
Extreme (-20°C)		11.53	3.57	6.35	1.53	1.57	0.00613	0.00190	0.00338	0.00082	0.00084	PASS
Extreme (-30°C)		4.92	11.58	4.60	17.92	17.58	0.00262	0.00616	0.00245	0.00953	0.00935	PASS
25°C	LV	14.04	2.18	16.59	4.04	9.18	0.00747	0.00116	0.00882	0.00215	0.00488	PASS
	HV	4.70	13.85	15.61	11.70	7.85	0.00250	0.00736	0.00830	0.00622	0.00417	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	40MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	4.79	7.28	1.81	4.79	1.28	0.00255	0.00387	0.00096	0.00255	0.00068	PASS
Extreme (50°C)		5.23	2.85	9.75	8.23	1.85	0.00278	0.00152	0.00519	0.00438	0.00098	PASS
Extreme (40°C)		13.11	5.54	9.81	10.11	14.54	0.00697	0.00295	0.00522	0.00538	0.00773	PASS
Extreme (30°C)		11.28	9.37	11.65	17.28	4.37	0.00600	0.00499	0.00620	0.00919	0.00233	PASS
Extreme (20°C)		6.39	15.78	5.37	1.39	3.78	0.00340	0.00840	0.00286	0.00074	0.00201	PASS
Extreme (10°C)		2.13	3.62	3.20	11.13	5.62	0.00113	0.00192	0.00170	0.00592	0.00299	PASS
Extreme (0°C)		6.70	11.70	2.59	5.70	16.70	0.00356	0.00623	0.00138	0.00303	0.00888	PASS
Extreme (-10°C)		10.33	6.97	16.76	3.33	8.97	0.00550	0.00371	0.00892	0.00177	0.00477	PASS
Extreme (-20°C)		7.00	5.56	17.65	9.00	8.56	0.00372	0.00296	0.00939	0.00479	0.00455	PASS
Extreme (-30°C)		12.32	9.43	15.40	14.32	7.43	0.00655	0.00502	0.00819	0.00762	0.00395	PASS
25°C	LV	16.72	16.68	12.96	13.72	10.68	0.00889	0.00887	0.00689	0.00730	0.00568	PASS
	HV	13.82	11.54	16.44	16.82	16.54	0.00735	0.00614	0.00874	0.00895	0.00880	PASS



Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	60MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	
Normal (25°C)	Normal	12.75	14.54	9.29	14.75	10.54	0.00678	0.00773	0.00494	0.00784	0.00561	PASS
Extreme (50°C)		12.84	7.80	8.71	5.84	15.80	0.00683	0.00415	0.00463	0.00311	0.00840	PASS
Extreme (40°C)		8.91	6.65	14.99	1.91	6.65	0.00474	0.00354	0.00797	0.00102	0.00354	PASS
Extreme (30°C)		10.14	8.78	17.42	1.14	11.78	0.00539	0.00467	0.00927	0.00061	0.00627	PASS
Extreme (20°C)		3.33	9.15	12.09	4.33	3.15	0.00177	0.00487	0.00643	0.00231	0.00168	PASS
Extreme (10°C)		7.16	15.56	1.34	12.16	10.56	0.00381	0.00828	0.00071	0.00647	0.00562	PASS
Extreme (0°C)		7.95	2.42	12.10	4.95	3.42	0.00423	0.00129	0.00644	0.00263	0.00182	PASS
Extreme (-10°C)		15.71	3.54	15.61	6.71	16.54	0.00835	0.00188	0.00830	0.00357	0.00880	PASS
Extreme (-20°C)		9.54	11.29	12.50	6.54	4.29	0.00508	0.00601	0.00665	0.00348	0.00228	PASS
Extreme (-30°C)		8.39	5.67	17.41	8.39	17.67	0.00446	0.00302	0.00926	0.00446	0.00940	PASS
25°C	LV	13.00	4.35	13.78	9.00	8.35	0.00691	0.00231	0.00733	0.00479	0.00444	PASS
	HV	4.19	13.54	12.15	12.19	11.54	0.00223	0.00720	0.00646	0.00648	0.00614	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	80MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	
Normal (25°C)	Normal	9.11	11.71	15.31	5.11	17.71	0.00484	0.00623	0.00814	0.00272	0.00942	PASS
Extreme (50°C)		1.43	5.78	5.74	1.43	2.78	0.00076	0.00308	0.00305	0.00076	0.00148	PASS
Extreme (40°C)		16.16	1.29	4.33	12.16	3.29	0.00860	0.00069	0.00230	0.00647	0.00175	PASS
Extreme (30°C)		13.95	7.51	10.36	1.95	11.51	0.00742	0.00400	0.00551	0.00104	0.00612	PASS
Extreme (20°C)		9.51	3.49	17.34	17.51	10.49	0.00506	0.00185	0.00922	0.00932	0.00558	PASS
Extreme (10°C)		14.52	11.92	7.30	13.52	2.92	0.00773	0.00634	0.00388	0.00719	0.00156	PASS
Extreme (0°C)		10.11	9.37	5.43	11.11	1.37	0.00538	0.00498	0.00289	0.00591	0.00073	PASS
Extreme (-10°C)		5.42	17.53	9.31	17.42	13.53	0.00288	0.00932	0.00495	0.00927	0.00720	PASS
Extreme (-20°C)		16.64	4.34	3.72	13.64	4.34	0.00885	0.00231	0.00198	0.00726	0.00231	PASS
Extreme (-30°C)		8.77	8.11	11.65	11.77	16.11	0.00466	0.00431	0.00620	0.00626	0.00857	PASS
25°C	LV	5.59	3.37	4.49	2.59	8.37	0.00297	0.00179	0.00239	0.00138	0.00445	PASS
	HV	17.55	12.49	5.01	7.55	13.49	0.00934	0.00664	0.00266	0.00402	0.00717	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	100MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	
Normal (25°C)	Normal	4.86	17.77	7.15	16.86	12.77	0.00259	0.00945	0.00380	0.00897	0.00679	PASS
Extreme (50°C)		10.66	3.27	6.40	1.66	2.27	0.00567	0.00174	0.00340	0.00089	0.00121	PASS



Extreme (40°C)		8.67	16.00	17.47	2.67	17.00	0.00461	0.00851	0.00929	0.00142	0.00904	PASS
Extreme (30°C)		4.06	10.17	11.98	14.06	1.17	0.00216	0.00541	0.00637	0.00748	0.00062	PASS
Extreme (20°C)		12.66	11.71	7.94	14.66	15.71	0.00673	0.00623	0.00422	0.00780	0.00836	PASS
Extreme (10°C)		16.97	14.95	6.79	3.97	12.95	0.00902	0.00795	0.00361	0.00211	0.00689	PASS
Extreme (0°C)		16.65	3.93	9.94	13.65	4.93	0.00886	0.00209	0.00529	0.00726	0.00262	PASS
Extreme (-10°C)		3.41	13.76	11.72	17.41	14.76	0.00181	0.00732	0.00624	0.00926	0.00785	PASS
Extreme (-20°C)		3.20	16.46	17.96	4.20	10.46	0.00170	0.00876	0.00955	0.00224	0.00557	PASS
Extreme (-30°C)		3.11	2.81	11.91	10.11	15.81	0.00165	0.00149	0.00633	0.00538	0.00841	PASS
25°C	LV	11.17	9.49	7.21	14.17	2.49	0.00594	0.00505	0.00384	0.00754	0.00132	PASS
	HV	4.91	5.93	5.16	5.91	17.93	0.00261	0.00315	0.00275	0.00315	0.00954	PASS

NR n77 subset 2												
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	20MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	16.40	13.81	14.43	8.40	13.81	0.00872	0.00735	0.00768	0.00447	0.00735	PASS
Extreme (50°C)		11.00	9.92	15.41	16.00	4.92	0.00585	0.00528	0.00820	0.00851	0.00262	PASS
Extreme (40°C)		7.78	9.03	7.85	4.78	1.03	0.00414	0.00481	0.00417	0.00254	0.00055	PASS
Extreme (30°C)		6.52	16.52	16.61	10.52	16.52	0.00347	0.00879	0.00884	0.00560	0.00879	PASS
Extreme (20°C)		11.25	14.08	16.23	7.25	5.08	0.00598	0.00749	0.00863	0.00386	0.00270	PASS
Extreme (10°C)		3.05	14.93	10.89	3.05	2.93	0.00162	0.00794	0.00579	0.00162	0.00156	PASS
Extreme (0°C)		11.12	8.32	15.11	6.12	4.32	0.00592	0.00443	0.00804	0.00326	0.00230	PASS
Extreme (-10°C)		9.71	17.25	9.33	8.71	3.25	0.00517	0.00918	0.00496	0.00464	0.00173	PASS
Extreme (-20°C)		5.18	1.86	1.78	6.18	4.86	0.00275	0.00099	0.00094	0.00329	0.00259	PASS
Extreme (-30°C)		10.00	4.70	3.14	7.00	11.70	0.00532	0.00250	0.00167	0.00372	0.00622	PASS
25°C	LV	8.85	6.45	4.70	4.85	3.45	0.00471	0.00343	0.00250	0.00258	0.00184	PASS
	HV	12.03	2.45	16.47	11.03	4.45	0.00640	0.00131	0.00876	0.00587	0.00237	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	40MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	17.99	9.09	6.79	6.99	9.09	0.00957	0.00483	0.00361	0.00372	0.00483	PASS
Extreme (50°C)		17.02	3.67	4.79	7.02	17.67	0.00906	0.00195	0.00255	0.00374	0.00940	PASS
Extreme (40°C)		3.79	1.67	5.61	1.79	2.67	0.00202	0.00089	0.00298	0.00095	0.00142	PASS
Extreme (30°C)		2.87	3.03	16.06	5.87	2.03	0.00153	0.00161	0.00854	0.00312	0.00108	PASS
Extreme (20°C)		8.72	10.10	4.73	12.72	9.10	0.00464	0.00537	0.00251	0.00677	0.00484	PASS
Extreme (10°C)		9.69	10.55	8.03	6.69	8.55	0.00516	0.00561	0.00427	0.00356	0.00455	PASS
Extreme (0°C)		11.77	13.22	2.17	5.77	2.22	0.00626	0.00703	0.00115	0.00307	0.00118	PASS



Extreme (-10°C)		1.94	1.63	8.75	15.94	11.63	0.00103	0.00087	0.00466	0.00848	0.00619	PASS
Extreme (-20°C)		10.57	13.91	8.69	13.57	9.91	0.00562	0.00740	0.00462	0.00722	0.00527	PASS
Extreme (-30°C)		17.09	5.87	7.89	8.09	17.87	0.00909	0.00312	0.00420	0.00430	0.00950	PASS
25°C	LV	6.58	8.61	5.71	13.58	13.61	0.00350	0.00458	0.00304	0.00722	0.00724	PASS
	HV	7.89	1.10	16.62	16.89	1.10	0.00420	0.00059	0.00884	0.00898	0.00059	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	60MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	(ppm)	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	5.18	8.72	5.44	13.18	4.72	0.00275	0.00464	0.00289	0.00701	0.00251	PASS
Extreme (50°C)		16.45	13.53	12.18	1.45	8.53	0.00875	0.00720	0.00648	0.00077	0.00454	PASS
Extreme (40°C)		8.32	2.31	17.63	15.32	16.31	0.00443	0.00123	0.00938	0.00815	0.00867	PASS
Extreme (30°C)		12.72	3.56	14.14	7.72	8.56	0.00677	0.00189	0.00752	0.00411	0.00455	PASS
Extreme (20°C)		7.93	14.56	17.92	7.93	5.56	0.00422	0.00774	0.00953	0.00422	0.00296	PASS
Extreme (10°C)		13.37	9.81	9.30	16.37	2.81	0.00711	0.00522	0.00495	0.00871	0.00150	PASS
Extreme (0°C)		7.08	16.89	9.61	6.08	17.89	0.00377	0.00899	0.00511	0.00324	0.00952	PASS
Extreme (-10°C)		6.23	10.35	8.27	14.23	6.35	0.00331	0.00550	0.00440	0.00757	0.00338	PASS
Extreme (-20°C)		13.20	6.31	7.90	1.20	2.31	0.00702	0.00336	0.00420	0.00064	0.00123	PASS
Extreme (-30°C)		15.19	5.43	4.18	7.19	2.43	0.00808	0.00289	0.00222	0.00382	0.00129	PASS
25°C	LV	8.85	7.64	7.92	6.85	16.64	0.00471	0.00406	0.00421	0.00364	0.00885	PASS
	HV	10.84	3.90	7.43	13.84	7.90	0.00577	0.00207	0.00395	0.00736	0.00420	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	80MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	(ppm)	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	5.10	11.98	5.94	2.10	1.98	0.00271	0.00637	0.00316	0.00112	0.00106	PASS
Extreme (50°C)		16.81	9.44	10.17	15.81	10.44	0.00894	0.00502	0.00541	0.00841	0.00556	PASS
Extreme (40°C)		16.36	1.54	1.64	15.36	12.54	0.00870	0.00082	0.00087	0.00817	0.00667	PASS
Extreme (30°C)		8.54	12.32	7.19	2.54	16.32	0.00455	0.00655	0.00383	0.00135	0.00868	PASS
Extreme (20°C)		11.74	3.01	17.67	14.74	17.01	0.00625	0.00160	0.00940	0.00784	0.00905	PASS
Extreme (10°C)		11.94	8.30	17.38	2.94	2.30	0.00635	0.00442	0.00925	0.00156	0.00122	PASS
Extreme (0°C)		14.47	6.46	12.98	10.47	4.46	0.00770	0.00344	0.00691	0.00557	0.00237	PASS
Extreme (-10°C)		15.81	15.73	12.75	10.81	6.73	0.00841	0.00837	0.00678	0.00575	0.00358	PASS
Extreme (-20°C)		10.01	16.46	2.99	7.01	2.46	0.00533	0.00876	0.00159	0.00373	0.00131	PASS
Extreme (-30°C)		5.11	5.12	1.81	10.11	17.12	0.00272	0.00272	0.00096	0.00538	0.00911	PASS
25°C	LV	9.27	14.18	17.46	2.27	10.18	0.00493	0.00754	0.00929	0.00121	0.00542	PASS
	HV	2.63	3.46	16.18	14.63	3.46	0.00140	0.00184	0.00861	0.00778	0.00184	PASS



Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	100MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	
Normal (25°C)	Normal	4.67	3.03	10.42	11.67	1.03	0.00249	0.00161	0.00554	0.00621	0.00055	PASS
Extreme (50°C)		8.66	13.20	2.05	16.66	8.20	0.00460	0.00702	0.00109	0.00886	0.00436	PASS
Extreme (40°C)		12.58	16.06	11.57	5.58	2.06	0.00669	0.00854	0.00615	0.00297	0.00110	PASS
Extreme (30°C)		11.84	16.73	8.89	1.84	2.73	0.00630	0.00890	0.00473	0.00098	0.00145	PASS
Extreme (20°C)		10.18	10.12	7.54	6.18	2.12	0.00541	0.00538	0.00401	0.00329	0.00113	PASS
Extreme (10°C)		4.35	10.99	7.76	5.35	6.99	0.00231	0.00585	0.00413	0.00285	0.00372	PASS
Extreme (0°C)		10.98	11.52	7.10	7.98	11.52	0.00584	0.00613	0.00377	0.00425	0.00613	PASS
Extreme (-10°C)		15.06	11.21	6.88	14.06	4.21	0.00801	0.00596	0.00366	0.00748	0.00224	PASS
Extreme (-20°C)		14.78	12.79	3.12	6.78	9.79	0.00786	0.00680	0.00166	0.00361	0.00520	PASS
Extreme (-30°C)		8.44	11.44	2.39	6.44	2.44	0.00449	0.00609	0.00127	0.00343	0.00130	PASS
25°C	LV	9.34	5.42	6.39	8.34	7.42	0.00497	0.00288	0.00340	0.00444	0.00395	PASS
	HV	17.70	8.56	17.58	13.70	10.56	0.00941	0.00455	0.00935	0.00729	0.00562	PASS

DC_2A-n77A subset 1												
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	20MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	
Normal (25°C)	Normal	12.25	6.08	5.57	17.25	1.08	0.00651	0.00323	0.00296	0.00917	0.00057	PASS
Extreme (50°C)		17.14	2.32	6.74	16.14	14.32	0.00912	0.00123	0.00359	0.00858	0.00762	PASS
Extreme (40°C)		12.74	3.76	13.89	14.74	3.76	0.00678	0.00200	0.00739	0.00784	0.00200	PASS
Extreme (30°C)		9.28	6.91	6.50	16.28	2.91	0.00494	0.00368	0.00346	0.00866	0.00155	PASS
Extreme (20°C)		6.84	5.61	5.47	5.84	7.61	0.00364	0.00298	0.00291	0.00310	0.00405	PASS
Extreme (10°C)		10.01	14.70	16.54	15.01	11.70	0.00533	0.00782	0.00880	0.00799	0.00622	PASS
Extreme (0°C)		6.46	16.53	17.62	7.46	16.53	0.00344	0.00879	0.00937	0.00397	0.00879	PASS
Extreme (-10°C)		14.60	15.60	13.79	8.60	3.60	0.00776	0.00830	0.00733	0.00457	0.00192	PASS
Extreme (-20°C)		6.31	13.87	16.89	7.31	11.87	0.00336	0.00738	0.00898	0.00389	0.00631	PASS
Extreme (-30°C)		11.43	14.92	1.12	17.43	15.92	0.00608	0.00793	0.00060	0.00927	0.00847	PASS
25°C	LV	7.45	9.47	7.30	13.45	14.47	0.00396	0.00504	0.00388	0.00715	0.00770	PASS
	HV	12.16	16.40	10.17	14.16	16.40	0.00647	0.00872	0.00541	0.00753	0.00872	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	40MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	
Normal (25°C)	Normal	3.18	4.85	5.73	8.18	11.85	0.00169	0.00258	0.00305	0.00435	0.00630	PASS
Extreme (50°C)		8.38	13.44	8.89	17.38	15.44	0.00446	0.00715	0.00473	0.00925	0.00821	PASS



Extreme (40°C)		4.09	12.98	8.81	7.09	9.98	0.00218	0.00690	0.00469	0.00377	0.00531	PASS
Extreme (30°C)		7.71	1.42	11.93	6.71	10.42	0.00410	0.00075	0.00635	0.00357	0.00554	PASS
Extreme (20°C)		12.71	11.32	3.29	10.71	10.32	0.00676	0.00602	0.00175	0.00570	0.00549	PASS
Extreme (10°C)		11.53	9.68	13.68	6.53	13.68	0.00613	0.00515	0.00728	0.00347	0.00728	PASS
Extreme (0°C)		17.21	15.34	3.04	7.21	12.34	0.00915	0.00816	0.00162	0.00383	0.00656	PASS
Extreme (-10°C)		17.05	11.50	10.62	6.05	4.50	0.00907	0.00611	0.00565	0.00322	0.00239	PASS
Extreme (-20°C)		17.66	10.54	14.76	5.66	1.54	0.00939	0.00561	0.00785	0.00301	0.00082	PASS
Extreme (-30°C)		15.14	4.16	13.12	3.14	13.16	0.00805	0.00221	0.00698	0.00167	0.00700	PASS
25°C	LV	14.17	14.71	14.75	4.17	14.71	0.00754	0.00783	0.00784	0.00222	0.00783	PASS
	HV	11.66	3.32	7.87	4.66	11.32	0.00620	0.00176	0.00419	0.00248	0.00602	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	60MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	7.37	14.23	13.13	4.37	3.23	0.00392	0.00757	0.00698	0.00233	0.00172	PASS
Extreme (50°C)		3.44	13.00	11.89	7.44	7.00	0.00183	0.00692	0.00632	0.00396	0.00373	PASS
Extreme (40°C)		1.87	6.98	11.04	15.87	8.98	0.00100	0.00371	0.00587	0.00844	0.00478	PASS
Extreme (30°C)		12.18	1.06	3.90	2.18	9.06	0.00648	0.00056	0.00207	0.00116	0.00482	PASS
Extreme (20°C)		8.85	1.05	2.78	3.85	7.05	0.00471	0.00056	0.00148	0.00205	0.00375	PASS
Extreme (10°C)		5.94	7.84	5.49	14.94	6.84	0.00316	0.00417	0.00292	0.00795	0.00364	PASS
Extreme (0°C)		16.12	11.46	14.52	13.12	3.46	0.00857	0.00610	0.00773	0.00698	0.00184	PASS
Extreme (-10°C)		4.74	15.63	4.42	17.74	5.63	0.00252	0.00832	0.00235	0.00944	0.00300	PASS
Extreme (-20°C)		10.19	11.05	14.00	2.19	11.05	0.00542	0.00588	0.00744	0.00117	0.00588	PASS
Extreme (-30°C)		10.46	3.27	13.01	3.46	1.27	0.00556	0.00174	0.00692	0.00184	0.00067	PASS
25°C	LV	10.17	14.95	7.09	5.17	16.95	0.00541	0.00795	0.00377	0.00275	0.00901	PASS
	HV	7.84	10.21	10.19	11.84	17.21	0.00417	0.00543	0.00542	0.00630	0.00916	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	80MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	17.46	8.68	12.04	10.46	3.68	0.00929	0.00462	0.00640	0.00556	0.00196	PASS
Extreme (50°C)		12.26	12.92	16.55	14.26	10.92	0.00652	0.00687	0.00880	0.00759	0.00581	PASS
Extreme (40°C)		4.02	17.60	2.24	1.02	1.60	0.00214	0.00936	0.00119	0.00054	0.00085	PASS
Extreme (30°C)		17.90	6.56	1.46	14.90	9.56	0.00952	0.00349	0.00078	0.00793	0.00508	PASS
Extreme (20°C)		17.06	11.22	14.41	7.06	4.22	0.00908	0.00597	0.00766	0.00376	0.00225	PASS
Extreme (10°C)		16.26	2.25	11.56	13.26	1.25	0.00865	0.00120	0.00615	0.00705	0.00067	PASS
Extreme (0°C)		4.51	3.16	4.71	1.51	4.16	0.00240	0.00168	0.00251	0.00080	0.00221	PASS
Extreme (-10°C)		8.84	5.22	1.70	12.84	3.22	0.00470	0.00277	0.00091	0.00683	0.00171	PASS
Extreme (-20°C)		6.58	4.64	3.41	16.58	16.64	0.00350	0.00247	0.00181	0.00882	0.00885	PASS
Extreme (-30°C)		8.80	1.56	9.08	11.80	5.56	0.00468	0.00083	0.00483	0.00628	0.00296	PASS
25°C	LV	2.85	14.51	4.08	3.85	4.51	0.00152	0.00772	0.00217	0.00205	0.00240	PASS



Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	100MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	
Normal (25°C)	Normal	13.32	8.98	5.00	15.32	6.98	0.00709	0.00478	0.00266	0.00815	0.00371	PASS
Extreme (50°C)		3.63	17.23	12.27	5.63	10.23	0.00193	0.00916	0.00653	0.00300	0.00544	PASS
Extreme (40°C)		6.11	11.15	2.03	12.11	2.15	0.00325	0.00593	0.00108	0.00644	0.00115	PASS
Extreme (30°C)		4.34	3.95	11.46	6.34	16.95	0.00231	0.00210	0.00610	0.00337	0.00901	PASS
Extreme (20°C)		13.75	9.80	10.05	10.75	8.80	0.00732	0.00521	0.00535	0.00572	0.00468	PASS
Extreme (10°C)		15.16	8.66	8.96	15.16	8.66	0.00807	0.00461	0.00477	0.00807	0.00461	PASS
Extreme (0°C)		7.17	4.17	5.12	16.17	4.17	0.00382	0.00222	0.00272	0.00860	0.00222	PASS
Extreme (-10°C)		15.78	2.17	7.20	10.78	13.17	0.00840	0.00115	0.00383	0.00574	0.00701	PASS
Extreme (-20°C)		17.35	6.37	14.96	6.35	3.37	0.00923	0.00339	0.00796	0.00338	0.00179	PASS
Extreme (-30°C)		12.28	10.00	8.58	7.28	4.00	0.00653	0.00532	0.00456	0.00387	0.00213	PASS
25°C	LV	14.74	14.68	15.38	5.74	7.68	0.00784	0.00781	0.00818	0.00305	0.00409	PASS
	HV	17.56	14.19	4.12	16.56	3.19	0.00934	0.00755	0.00219	0.00881	0.00170	PASS

DC_2A-n77A subset 2												
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	20MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	
Normal (25°C)	Normal	5.12	14.97	11.74	11.07	17.97	0.00273	0.00796	0.00624	0.00589	0.00956	PASS
Extreme (50°C)		12.75	10.11	14.62	2.13	12.11	0.00678	0.00538	0.00778	0.00113	0.00644	PASS
Extreme (40°C)		9.05	4.09	4.08	3.92	2.09	0.00481	0.00218	0.00217	0.00208	0.00111	PASS
Extreme (30°C)		15.88	9.05	1.70	8.45	14.05	0.00845	0.00482	0.00090	0.00449	0.00748	PASS
Extreme (20°C)		5.61	14.20	5.48	7.49	1.20	0.00298	0.00755	0.00291	0.00399	0.00064	PASS
Extreme (10°C)		6.65	8.24	14.06	17.62	7.24	0.00354	0.00438	0.00748	0.00937	0.00385	PASS
Extreme (0°C)		14.41	12.44	1.08	10.33	2.44	0.00766	0.00662	0.00058	0.00549	0.00130	PASS
Extreme (-10°C)		15.91	5.65	2.94	8.32	10.65	0.00846	0.00300	0.00156	0.00442	0.00566	PASS
Extreme (-20°C)		13.30	17.46	13.54	14.43	10.46	0.00708	0.00929	0.00720	0.00767	0.00556	PASS
Extreme (-30°C)		1.76	3.92	1.53	12.40	1.92	0.00094	0.00209	0.00082	0.00660	0.00102	PASS
25°C	LV	14.15	8.11	1.56	11.19	7.11	0.00752	0.00432	0.00083	0.00595	0.00378	PASS
	HV	15.98	14.85	9.73	1.04	5.85	0.00850	0.00790	0.00518	0.00055	0.00311	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	40MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	
		256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	



Normal (25°C)	Normal	9.05	14.69	6.88	4.25	3.69	0.00482	0.00781	0.00366	0.00226	0.00196	PASS
Extreme (50°C)		4.82	6.78	7.97	15.77	10.78	0.00256	0.00361	0.00424	0.00839	0.00573	PASS
Extreme (40°C)		8.30	9.92	9.58	14.16	13.92	0.00441	0.00528	0.00510	0.00753	0.00741	PASS
Extreme (30°C)		2.90	11.57	15.30	17.29	3.57	0.00154	0.00615	0.00814	0.00919	0.00190	PASS
Extreme (20°C)		2.98	3.37	17.02	13.20	16.37	0.00158	0.00179	0.00905	0.00702	0.00871	PASS
Extreme (10°C)		17.94	15.68	16.34	7.80	9.68	0.00954	0.00834	0.00869	0.00415	0.00515	PASS
Extreme (0°C)		16.50	5.17	7.82	15.71	12.17	0.00878	0.00275	0.00416	0.00835	0.00647	PASS
Extreme (-10°C)		4.20	1.83	4.87	15.24	11.83	0.00224	0.00098	0.00259	0.00811	0.00629	PASS
Extreme (-20°C)		2.11	15.35	6.53	16.94	12.35	0.00112	0.00817	0.00348	0.00901	0.00657	PASS
Extreme (-30°C)		3.56	7.73	6.78	2.20	17.73	0.00189	0.00411	0.00360	0.00117	0.00943	PASS
25°C	LV	3.98	3.50	9.52	13.74	6.50	0.00212	0.00186	0.00507	0.00731	0.00346	PASS
	HV	1.73	8.59	4.64	3.08	14.59	0.00092	0.00457	0.00247	0.00164	0.00776	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency Stability	Frequency Stability	Frequency Stability	Frequency Stability	Frequency Stability	Verdict
BANDWIDTH	60MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	11.73	3.65	5.03	2.07	13.65	0.00624	0.00194	0.00267	0.00110	0.00726	PASS
Extreme (50°C)		6.44	7.67	14.05	2.16	13.67	0.00342	0.00408	0.00747	0.00115	0.00727	PASS
Extreme (40°C)		7.03	1.53	2.66	5.99	2.53	0.00374	0.00081	0.00141	0.00319	0.00135	PASS
Extreme (30°C)		8.00	10.81	8.98	6.50	2.81	0.00425	0.00575	0.00478	0.00346	0.00150	PASS
Extreme (20°C)		17.01	3.23	8.91	15.15	14.23	0.00905	0.00172	0.00474	0.00806	0.00757	PASS
Extreme (10°C)		16.59	16.28	1.89	17.03	3.28	0.00883	0.00866	0.00100	0.00906	0.00174	PASS
Extreme (0°C)		8.94	6.86	5.59	9.95	13.86	0.00476	0.00365	0.00297	0.00529	0.00737	PASS
Extreme (-10°C)		5.24	4.23	3.24	6.97	1.23	0.00279	0.00225	0.00172	0.00371	0.00066	PASS
Extreme (-20°C)		16.27	4.25	2.03	8.67	1.25	0.00866	0.00226	0.00108	0.00461	0.00067	PASS
Extreme (-30°C)		6.54	4.22	4.64	7.53	15.22	0.00348	0.00225	0.00247	0.00400	0.00810	PASS
25°C	LV	1.48	4.75	6.10	10.56	12.75	0.00079	0.00253	0.00325	0.00562	0.00678	PASS
	HV	5.42	5.52	16.96	4.57	3.52	0.00288	0.00293	0.00902	0.00243	0.00187	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency Stability	Frequency Stability	Frequency Stability	Frequency Stability	Frequency Stability	Verdict
BANDWIDTH	80MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	11.66	6.46	5.11	15.48	8.46	0.00620	0.00344	0.00272	0.00824	0.00450	PASS
Extreme (50°C)		11.50	12.48	12.23	7.50	5.48	0.00612	0.00664	0.00651	0.00399	0.00291	PASS
Extreme (40°C)		9.37	9.87	3.43	15.67	11.87	0.00499	0.00525	0.00182	0.00834	0.00631	PASS
Extreme (30°C)		11.98	17.81	8.60	11.09	3.81	0.00637	0.00947	0.00458	0.00590	0.00203	PASS
Extreme (20°C)		15.53	17.81	16.14	3.78	11.81	0.00826	0.00947	0.00859	0.00201	0.00628	PASS
Extreme (10°C)		8.72	3.22	16.67	11.98	3.22	0.00464	0.00171	0.00886	0.00637	0.00171	PASS
Extreme (0°C)		8.49	6.34	9.43	14.12	13.34	0.00452	0.00337	0.00501	0.00751	0.00710	PASS
Extreme (-10°C)		14.43	11.86	12.01	14.94	3.86	0.00767	0.00631	0.00639	0.00795	0.00205	PASS



Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	100MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Extreme (-20℃)		3.49	5.18	17.02	2.43	5.18	0.00186	0.00276	0.00905	0.00129	0.00276	PASS
Extreme (-30℃)		2.89	11.73	11.62	1.55	4.73	0.00154	0.00624	0.00618	0.00083	0.00251	PASS
25℃	LV	3.20	10.41	14.02	12.75	9.41	0.00170	0.00554	0.00746	0.00678	0.00501	PASS
	HV	4.65	6.30	5.15	14.15	6.30	0.00247	0.00335	0.00274	0.00753	0.00335	PASS
Normal (25℃)	Normal	1.47	14.17	4.89	4.43	10.17	0.00078	0.00754	0.00260	0.00236	0.00541	PASS
Extreme (50℃)		7.40	9.79	8.19	9.42	11.79	0.00394	0.00521	0.00435	0.00501	0.00627	PASS
Extreme (40℃)		14.60	5.33	11.05	8.73	13.33	0.00777	0.00283	0.00588	0.00465	0.00709	PASS
Extreme (30℃)		7.91	6.07	2.23	17.79	5.07	0.00421	0.00323	0.00119	0.00947	0.00269	PASS
Extreme (20℃)		6.49	2.16	5.22	16.55	13.16	0.00345	0.00115	0.00277	0.00880	0.00700	PASS
Extreme (10℃)		13.00	13.79	10.02	14.40	8.79	0.00691	0.00734	0.00533	0.00766	0.00468	PASS
Extreme (0℃)		15.70	8.72	7.71	5.15	4.72	0.00835	0.00464	0.00410	0.00274	0.00251	PASS
Extreme (-10℃)		11.88	13.28	2.23	11.47	6.28	0.00632	0.00706	0.00118	0.00610	0.00334	PASS
Extreme (-20℃)		12.78	2.13	3.84	8.31	17.13	0.00680	0.00114	0.00204	0.00442	0.00911	PASS
Extreme (-30℃)		12.47	14.79	12.53	10.86	15.79	0.00663	0.00787	0.00666	0.00578	0.00840	PASS
25℃	LV	3.84	11.84	8.98	8.39	14.84	0.00204	0.00630	0.00478	0.00446	0.00789	PASS
	HV	16.81	16.76	7.67	5.51	16.76	0.00894	0.00892	0.00408	0.00293	0.00892	PASS



6.6 Spurious Emissions at Antenna Terminals

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the emissions more than 20 dB below the limit are not reported. The signal beyond the limit is carrier.

NR n77 subset1 P1/2 BPSK 30MHz CH-Middle
9kHz~40GHz



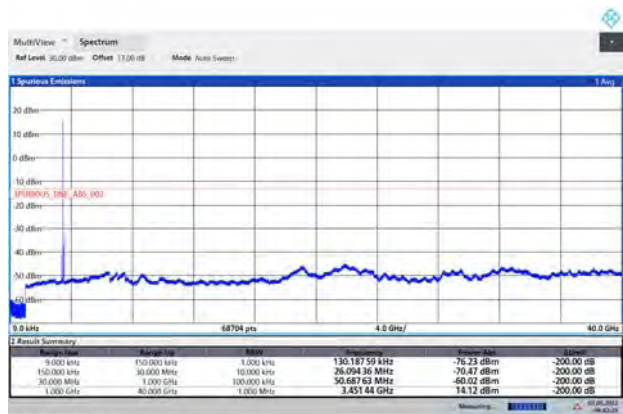
NR n77 subset1 QPSK 30MHz CH-Middle
9kHz~40GHz



NR n77 subset1 16QAM 30MHz CH-Middle
9kHz~40GHz



NR n77 subset1 64QAM 30MHz CH-Middle
9kHz~40GHz

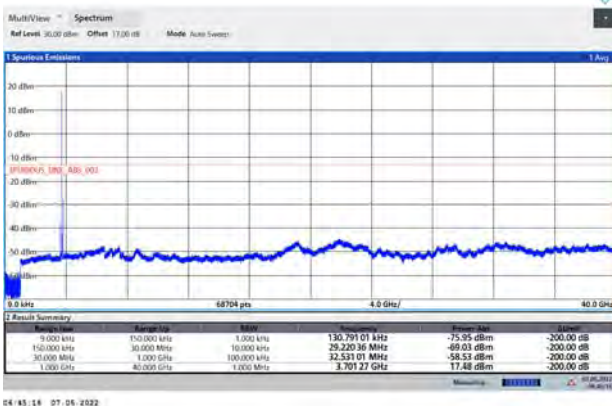


NR n77 subset1 256QAM 30MHz CH-Middle
9kHz~40GHz

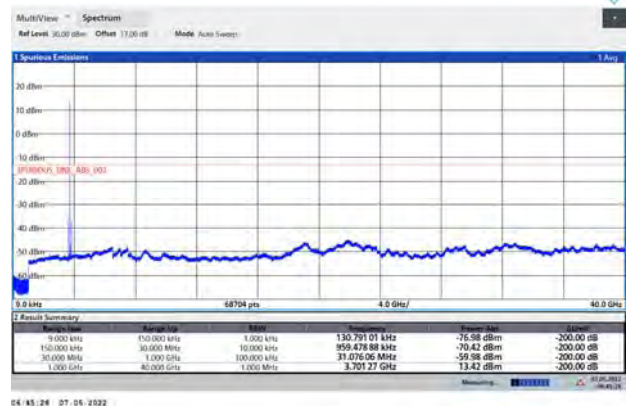




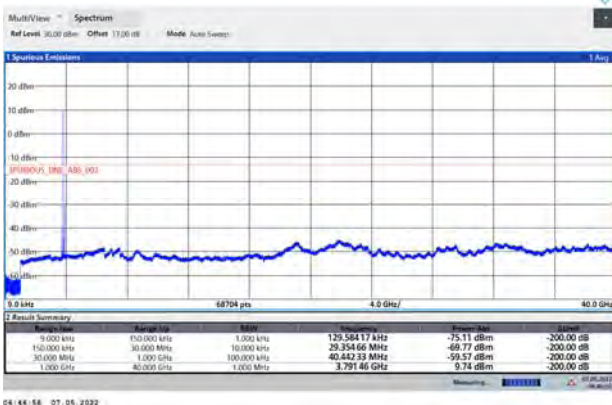
NR n77 subset2 P1/2 BPSK 30MHz CH-Low 9kHz~40GHz



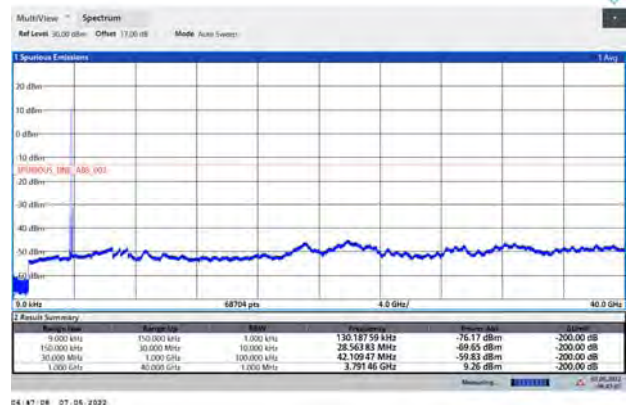
NR n77 subset2 QPSK 30MHz CH-Low 9kHz~40GHz



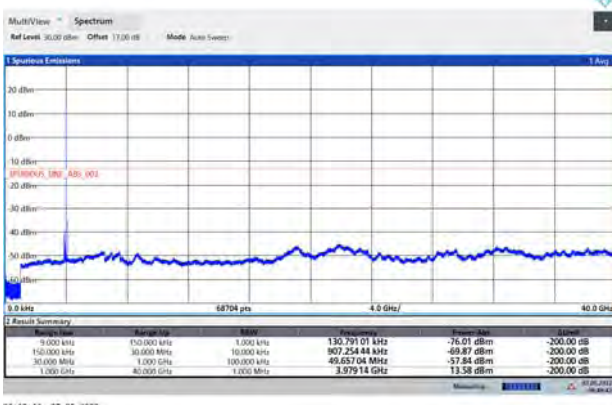
NR n77 subset2 P1/2 BPSK 30MHz CH-Middle 9kHz~40GHz



NR n77 subset2 QPSK 30MHz CH-Middle 9kHz~40GHz



NR n77 subset2 P1/2 BPSK 30MHz CH-High 9kHz~40GHz



NR n77 subset2 QPSK 30MHz CH-High 9kHz~40GHz

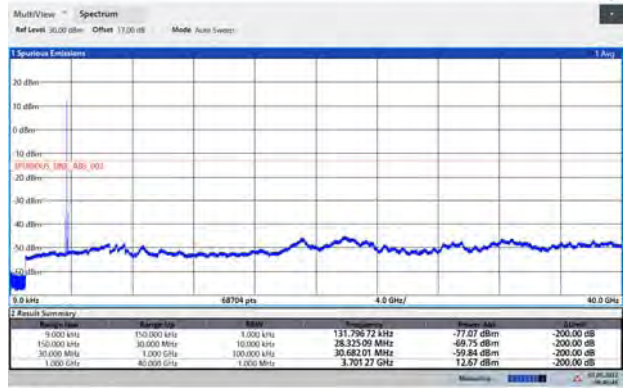




NR n77 subset2 16QAM 30MHz CH-Low 9kHz~40GHz



NR n77 subset2 64QAM 30MHz CH-Low 9kHz~40GHz



NR n77 subset2 16QAM 30MHz CH-Middle 9kHz~40GHz



NR n77 subset2 64QAM 30MHz CH-Middle 9kHz~40GHz



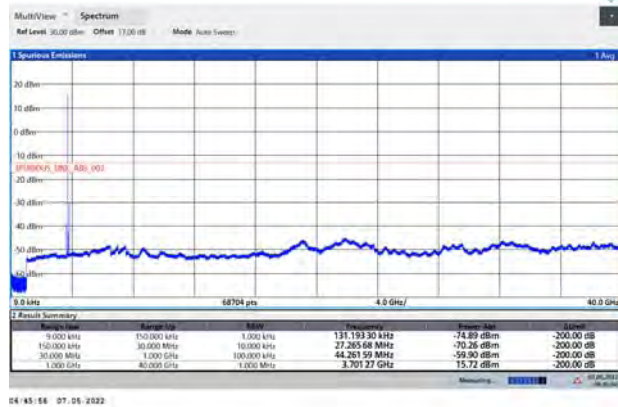
NR n77 subset2 16QAM 30MHz CH-High 9kHz~40GHz



NR n77 subset2 64QAM 30MHz CH-High 9kHz~40GHz

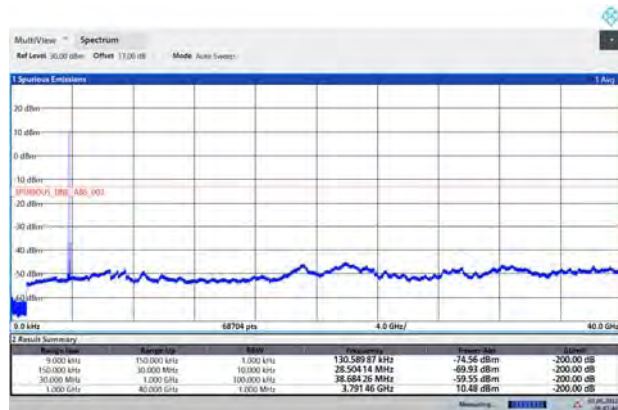


NR n77 subset2 256QAM 30MHz CH-Low 9kHz~40GHz



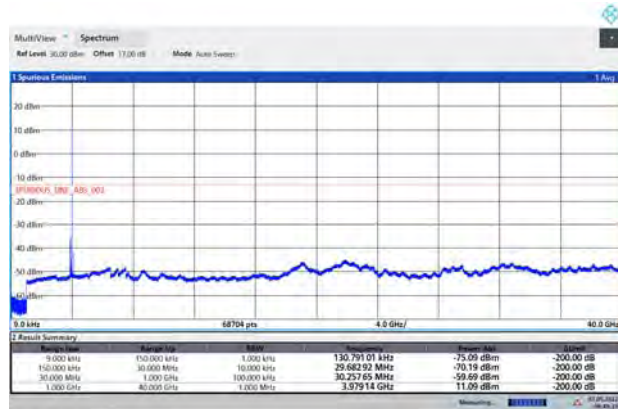
04:45:54 07.05.2022

NR n77 subset2 256QAM 30MHz CH-Middle 9kHz~40GHz



04:47:44 07.05.2022

NR n77 subset2 256QAM 30MHz CH-High 9kHz~40GHz



04:49:25 07.05.2022

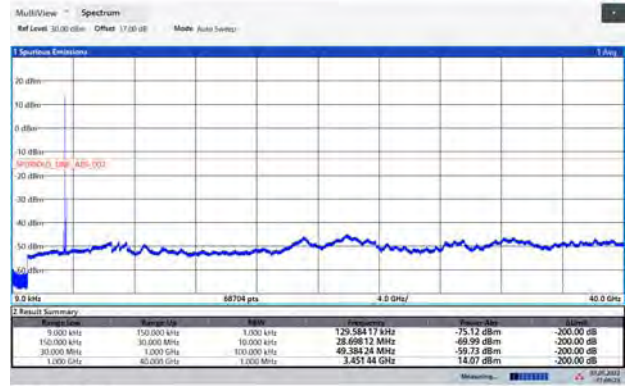


DC_2A-n77(subset 2)AP1/2 BPSK 30MHz CH-Middle 9kHz~40GHz



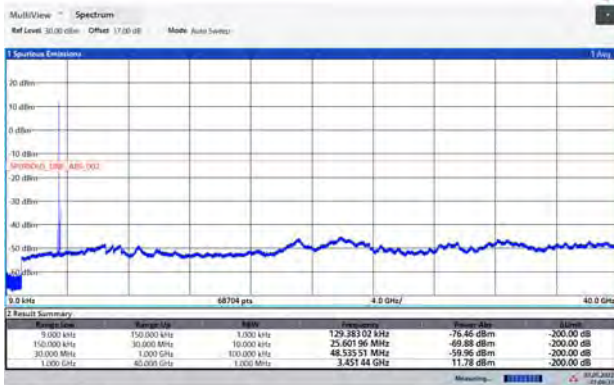
01:00:05 07:05:2022

DC_2A-n77(subset 2)A QPSK 30MHz CH-Middle 9kHz~40GHz



01:00:23 07:05:2022

DC_2A-n77(subset 2)A16QAM 30MHz CH-Middle 9kHz~40GHz



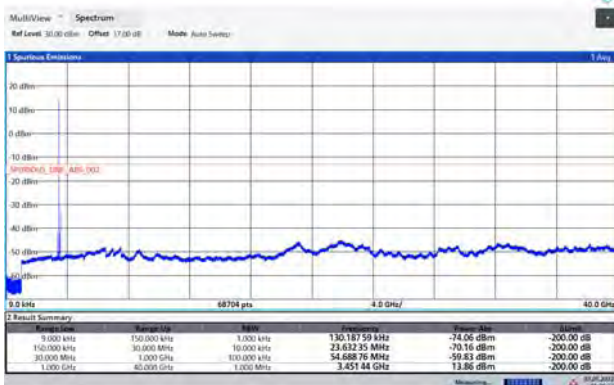
01:00:34 07:05:2022

DC_2A-n77(subset 2)A64QAM 30MHz CH-Middle 9kHz~40GHz



01:00:44 07:05:2022

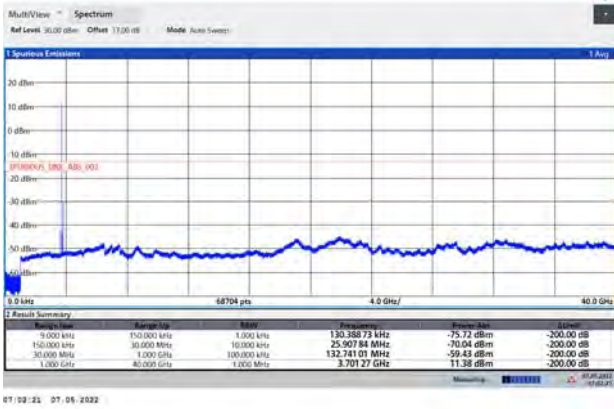
DC_2A-n77(subset 2)A256QAM 30MHz CH-Middle 9kHz~40GHz



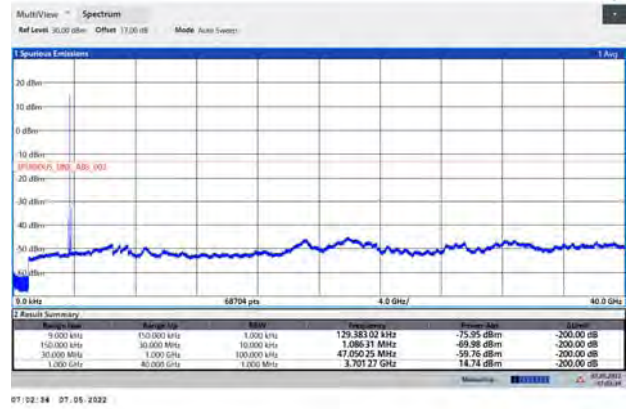
01:00:54 07:05:2022



DC_2A-n77(subset 2)AP1/2 BPSK 30MHz
CH-Low 9kHz~40GHz



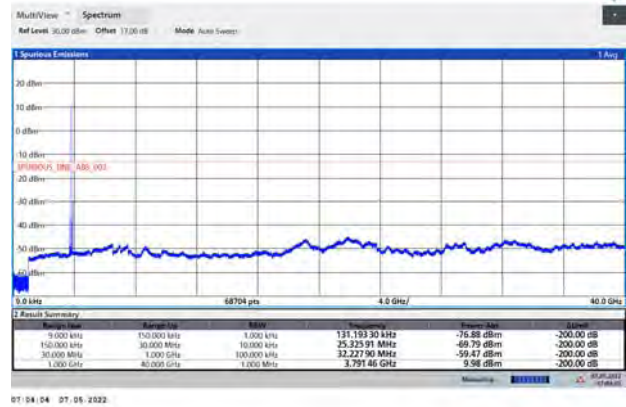
DC_2A-n77(subset 2)AQPSK 30MHz CH-Low
9kHz~40GHz



DC_2A-n77(subset 2)AP1/2 BPSK 30MHz
CH-Middle 9kHz~40GHz



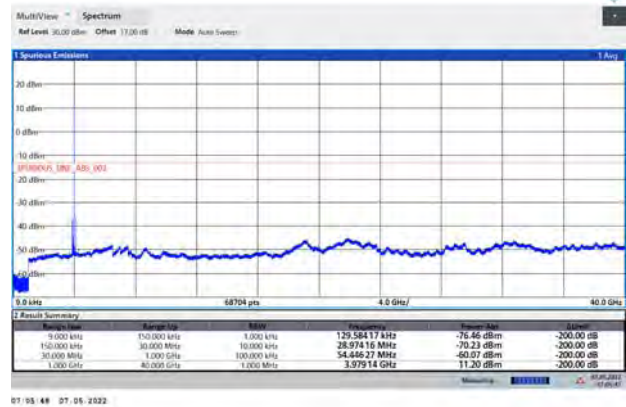
DC_2A-n77(subset 2)AQPSK 30MHz CH-Middle
9kHz~40GHz



DC_2A-n77(subset 2)AP1/2 BPSK 30MHz
CH-High 9kHz~40GHz

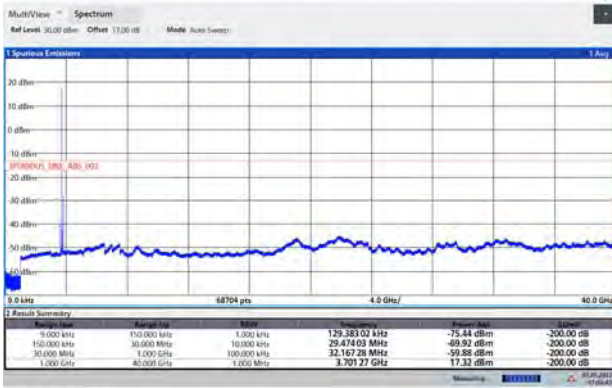


DC_2A-n77(subset 2)AQPSK 30MHz CH-High
9kHz~40GHz

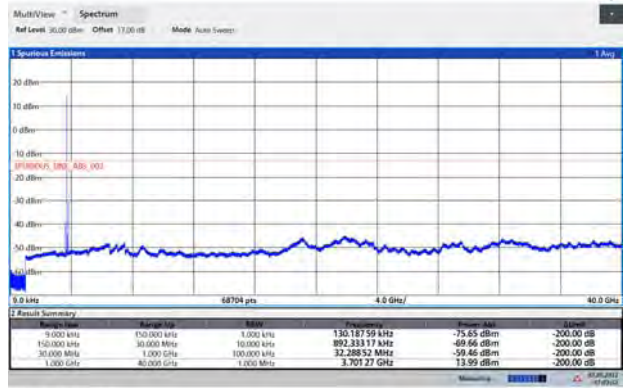




DC_2A-n77(subset 2)A16QAM 30MHz CH-Low 9kHz~40GHz



DC_2A-n77(subset 2)A64QAM 30MHz CH-Low 9kHz~40GHz



DC_2A-n77(subset 2)A16QAM 30MHz CH-Middle 9kHz~40GHz



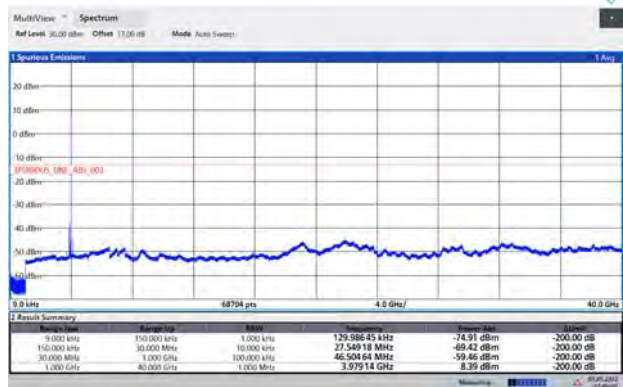
DC_2A-n77(subset 2)A64QAM 30MHz CH-Middle 9kHz~40GHz



DC_2A-n77(subset 2)A16QAM 30MHz CH-High 9kHz~40GHz

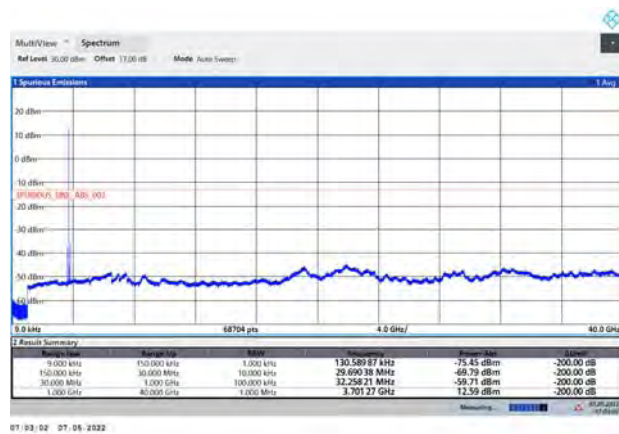


DC_2A-n77(subset 2)A64QAM 30MHz CH-High 9kHz~40GHz



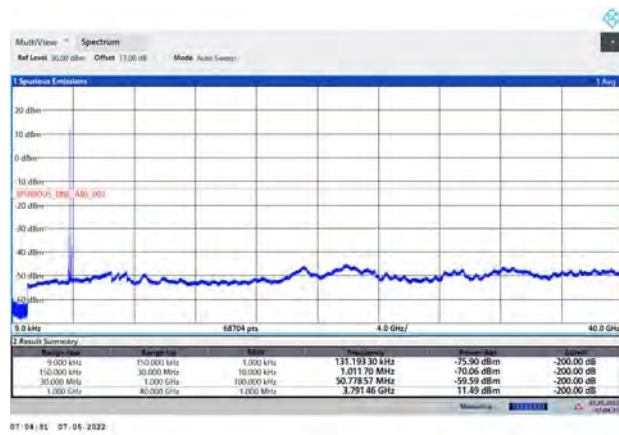


DC_2A-n77(subset 2)A256QAM 30MHz CH-Low 9kHz~40GHz



01:03:02 07-05-2022

DC_2A-n77(subset 2)A256QAM 30MHz CH-Middle 9kHz~40GHz



01:04:05 07-05-2022

DC_2A-n77(subset 2)A256QAM 30MHz CH-High 9kHz~40GHz



01:04:18 07-05-2022



6.7 Radiates Spurious Emission

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the emissions below the noise floor will not be recorded in the report.

During the test, preliminary tests were performed allAntenna, and the Main Antenna was selected as the worst case. Worst-case test data is documented in this report.

NRn 77 subset 1 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	7018.38	-59.41	4.20	12.20	Horizontal	-51.41	-13.00	38.41	180
3	10527.57	-48.95	5.90	11.90	Horizontal	-42.95	-13.00	29.95	225
4	14036.76	-51.41	5.80	13.10	Horizontal	-44.11	-13.00	31.11	0
5	17545.95	-49.79	6.10	14.20	Horizontal	-41.69	-13.00	28.69	270
6	21055.14	--	--	--	--	--	--	--	--
7	24564.33	--	--	--	--	--	--	--	--
8	28073.52	--	--	--	--	--	--	--	--
9	31582.71	--	--	--	--	--	--	--	--
10	35091.90	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

NRn 77 subset 1 QPSK 100MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	7098.30	-59.23	4.20	12.20	Horizontal	-51.23	-13.00	38.23	45
3	10647.45	-50.06	5.90	11.90	Horizontal	-44.06	-13.00	31.06	135
4	14196.60	-49.41	5.80	13.10	Horizontal	-42.11	-13.00	29.11	90
5	17745.75	-50.02	6.10	14.20	Horizontal	-41.92	-13.00	28.92	90
6	21294.90	--	--	--	--	--	--	--	--
7	24844.05	--	--	--	--	--	--	--	--
8	28393.20	--	--	--	--	--	--	--	--
9	31942.35	--	--	--	--	--	--	--	--
10	35491.50	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



NRn 77 subset 2 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	7698.36	-60.44	4.20	12.20	Horizontal	-52.44	-13.00	39.44	180
3	11547.54	-50.24	5.90	11.90	Horizontal	-44.24	-13.00	31.24	45
4	15396.72	-47.80	5.80	13.10	Horizontal	-40.50	-13.00	27.50	270
5	19245.90	--	--	--	--	--	--	--	--
6	23095.08	--	--	--	--	--	--	--	--
7	26944.26	--	--	--	--	--	--	--	--
8	30793.44	--	--	--	--	--	--	--	--
9	34642.62	--	--	--	--	--	--	--	--
10	38491.80	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

NRn 77 subset 2 QPSK 100MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	7778.28	-57.77	4.20	12.20	Horizontal	-49.77	-13.00	36.77	45
3	11667.42	-50.56	5.90	11.90	Horizontal	-44.56	-13.00	31.56	270
4	15556.56	-49.43	5.80	13.10	Horizontal	-42.13	-13.00	29.13	90
5	19445.70	--	--	--	--	--	--	--	--
6	23334.84	--	--	--	--	--	--	--	--
7	27223.98	--	--	--	--	--	--	--	--
8	31113.12	--	--	--	--	--	--	--	--
9	35002.26	--	--	--	--	--	--	--	--
10	38891.40	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



DC_2A-n77A subset 1 QPSK 100MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	7003.20	-58.09	4.20	12.20	Horizontal	-50.09	-13.00	37.09	135
3	10499.32	-48.00	5.90	11.90	Horizontal	-42.00	-13.00	29.00	90
4	13995.44	-47.26	5.80	13.10	Horizontal	-39.96	-13.00	26.96	90
5	17491.56	-48.42	6.10	14.20	Horizontal	-40.32	-13.00	27.32	90
6	20987.68	--	--	--	--	--	--	--	--
7	24483.80	--	--	--	--	--	--	--	--
8	27979.92	--	--	--	--	--	--	--	--
9	31476.04	--	--	--	--	--	--	--	--
10	34972.16	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.

DC_2A-n77A subset 1 QPSK 60MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	7003.20	-58.90	4.20	12.20	Horizontal	-50.90	-13.00	37.90	135
3	10499.32	-50.77	5.90	11.90	Horizontal	-44.77	-13.00	31.77	135
4	13995.44	-49.22	5.80	13.10	Horizontal	-41.92	-13.00	28.92	270
5	17491.56	-49.29	6.10	14.20	Horizontal	-41.19	-13.00	28.19	0
6	20987.68	--	--	--	--	--	--	--	--
7	24483.80	--	--	--	--	--	--	--	--
8	27979.92	--	--	--	--	--	--	--	--
9	31476.04	--	--	--	--	--	--	--	--
10	34972.16	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.



DC_2A-n77A subset 1 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	7003.20	-57.94	4.20	12.20	Horizontal	-49.94	-13.00	36.94	135
3	10499.32	-52.63	5.90	11.90	Horizontal	-46.63	-13.00	33.63	45
4	13995.44	-50.13	5.80	13.10	Horizontal	-42.83	-13.00	29.83	90
5	17491.56	-50.32	6.10	14.20	Horizontal	-42.22	-13.00	29.22	0
6	20987.68	--	--	--	--	--	--	--	--
7	24483.80	--	--	--	--	--	--	--	--
8	27979.92	--	--	--	--	--	--	--	--
9	31476.04	--	--	--	--	--	--	--	--
10	34972.16	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

DC_2A-n77A subset 2 QPSK 100MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	7680.40	-56.81	4.20	12.20	Horizontal	-48.81	-13.00	35.81	135
3	11520.60	-49.49	5.90	11.90	Horizontal	-43.49	-13.00	30.49	90
4	15360.80	-49.11	5.80	13.10	Horizontal	-41.81	-13.00	28.81	90
5	19201.00	--	--	--	--	--	--	--	--
6	23041.20	--	--	--	--	--	--	--	--
7	26881.40	--	--	--	--	--	--	--	--
8	30721.60	--	--	--	--	--	--	--	--
9	34561.80	--	--	--	--	--	--	--	--
10	38402.00	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



DC_2A-n77A subset 2 QPSK 60MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	7680.40	-56.23	4.20	12.20	Horizontal	-48.23	-13.00	35.23	135
3	11520.60	-48.51	5.90	11.90	Horizontal	-42.51	-13.00	29.51	135
4	15360.80	-51.67	5.80	13.10	Horizontal	-44.37	-13.00	31.37	270
5	19201.00	--	--	--	--	--	--	--	--
6	23041.20	--	--	--	--	--	--	--	--
7	26881.40	--	--	--	--	--	--	--	--
8	30721.60	--	--	--	--	--	--	--	--
9	34561.80	--	--	--	--	--	--	--	--
10	38402.00	--	--	--	--	--	--	--	--

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

DC_2A-n77A subset 2QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	7680.40	-56.49	4.20	12.20	Horizontal	-48.49	-13.00	35.49	135
3	11520.60	-48.75	5.90	11.90	Horizontal	-42.75	-13.00	29.75	45
4	15360.80	-52.39	5.80	13.10	Horizontal	-45.09	-13.00	32.09	90
5	19201.00	--	--	--	--	--	--	--	--
6	23041.20	--	--	--	--	--	--	--	--
7	26881.40	--	--	--	--	--	--	--	--
8	30721.60	--	--	--	--	--	--	--	--
9	34561.80	--	--	--	--	--	--	--	--
10	38402.00	--	--	--	--	--	--	--	--

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



7 Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Wireless Communication Tester	Anritsu	MT8000A	6261844783	2021-05-15	2022-05-14
Wireless Communication Tester	Anritsu	MT8821C	6201538758	2021-05-15	2022-05-14
Climate Chamber	WEISS	VT 4002	58226119450010	2021-05-15	2022-05-14
Base Station Simulator	R&S	CMW500	150415	2021-05-15	2022-05-14
Spectrum Analyzer	Keysight	N9020A	MY52330084	2021-05-15	2022-05-14
Universal Radio Communication Tester	Agilent	E5515C	GB44400275	2021-05-15	2022-05-14
Universal Radio Communication Tester	StarPoint	SP9500	SP9500-20440	2021-05-15	2022-05-14
Signal Analyzer	R&S	FSV3030	101411	2021-12-12	2022-12-11
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2020-04-02	2023-04-01
Spectrum Analyzer	R&S	FSV30	104028	2021-05-15	2022-05-14
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	01111	2019-09-12	2022-09-11
Horn Antenna	Schwarzbeck	BBHA 9120D	1594	2020-12-17	2023-12-16
Horn Antenna	ETS-Lindgren	3160-09	00102643	2020-08-11	2023-08-10
Horn Antenna	STEATITE	QSH-SL-26-40-K-15	16779	2018-06-20	2023-06-19
Software	R&S	EMC32	10.35.10	/	/

*****END OF REPORT *****



ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.



ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.