



FCC RF Test Report

APPLICANT : Fibocom Wireless Inc.
EQUIPMENT : 5G Module
BRAND NAME : Fibocom
MODEL NAME : FM350-GL
FCC ID : ZMOFM350GL
STANDARD : 47 CFR Part 27 Subpart O (3700-3980MHz)
CLASSIFICATION : PCS Licensed Transmitter (PCB)
TEST DATE(S) : Mar. 21, 2025 ~ Mar. 27, 2025

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

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

Jason Jia

Approved by: Jason Jia



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People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG531822B	Rev. 01	Initial issue of report	Mar. 28, 2025



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§27.50(j)(3)	Equivalent Isotropic Radiated Power (5G NR n77, n78)	EIRP < 1Watt		
3.5	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.6	§2.1051 §27.53(l)(2)	Conducted Band Edge Measurement (5G NR n77, n78)	< 43+10log10(P[Watts])	PASS	-
3.7	§2.1051 §27.53(l)(2)	Conducted Spurious Emission (5G NR n77, n78)	< 43+10log10(P[Watts])	PASS	-

Note: This is a variant report, to enable BW 20M/50MHz for n41 SCS 15k, BW 20M/60M/90MHz for n41 SCS 30k, BW 40M/50MHz for n77/n78 SCS 15k & BW 90MHz for n77/n78 SCS 30k by software. According to the change, only the related test cases were verified on the basis of the original report FG051802-21A.

Conformity Assessment Condition:	
1.	The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2.	The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"
Disclaimer:	
The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.	



1 General Description

1.1 Applicant

Fibocom Wireless Inc.

1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China.

1.2 Manufacturer

Fibocom Wireless Inc.

1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China.

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	5G Module
Brand Name	Fibocom
Model Name	FM350-GL
FCC ID	ZMOFM350GL
IMEI Code	Conducted : 862146050687837
HW Version	V1.0.6
SW Version	81600.0000.00.29.24.01
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency	5G NR n77: 3700 MHz ~ 3980 MHz 5G NR n78: 3700 MHz ~ 3800 MHz
SCS	15kHz, 30kHz
SCS/Bandwidth	SCS: 15kHz: n77/78: 10MHz / 15MHz / 20MHz / 40MHz / 50MHz SCS: 30kHz: n77/78: 10MHz / 15MHz / 20MHz / 40MHz / 50MHz / 60MHz / 80MHz / 90MHz / 100MHz
Antenna Gain	5G NR n77/78: 3.0 dBi
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

Remark:

1. 5G NR n77/n78 support HPUE mode for single carrier.
2. 5G NR n77/n78 support SA and NSA mode. The whole testing has assessed SA mode by referring to the higher conducted power for conducted test items.

3. All the supported ENDC combinations are verified conducted power, only the ENDC combination with highest power is shown in the report.
4. 5G NR n77/n78 support UL MIMO mode, and only supports CP-OFDM modulation in UL MIMO mode.

1.5 Modification of EUT

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

1.6 Maximum Conducted Power and Emission Designator

5G NR n77 – SCS 15k		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum Conducted Power(W)	Emission Designator (99%OBW)	Maximum Conducted Power(W)	Emission Designator (99%OBW)
40	3720.00 ~ 3960.00	0.3112	38M5G7D	0.2443	38M6W7D
50	3725.01 ~ 3954.99	0.3184	48M2G7D	0.2472	48M3W7D

5G NR n77 – SCS 30k		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum Conducted Power(W)	Emission Designator (99%OBW)	Maximum Conducted Power(W)	Emission Designator (99%OBW)
90	3745.02 ~ 3934.98	0.3133	87M5G7D	0.2443	87M7W7D

5G NR n78 – SCS 15k		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum Conducted Power(W)	Emission Designator (99%OBW)	Maximum Conducted Power(W)	Emission Designator (99%OBW)
40	3720.00 ~ 3780.00	0.3776	38M5G7D	0.2917	38M6W7D
50	3725.01 ~ 3774.99	0.3715	48M2G7D	0.2897	48M2W7D

5G NR n78 – SCS 30k		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum Conducted Power(W)	Emission Designator (99%OBW)	Maximum Conducted Power(W)	Emission Designator (99%OBW)
90	3745.02 ~ 3754.98	0.3516	87M5G7D	0.2692	87M5W7D



5G NR n77 – SCS 15k UL MIMO		QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum Conducted Power(W)	Emission Designator (99%OBW)	Maximum Conducted Power(W)	Emission Designator (99%OBW)
40	3720.00 ~ 3960.00	0.2014	38M6G7D	0.1746	38M6W7D
50	3725.01 ~ 3954.99	0.1968	48M2G7D	0.1758	48M2W7D

5G NR n77 – SCS 30k UL MIMO		QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum Conducted Power(W)	Emission Designator (99%OBW)	Maximum Conducted Power(W)	Emission Designator (99%OBW)
90	3745.02 ~ 3934.98	0.2028	90M3G7D	0.1820	90M2W7D

5G NR n78 – SCS 15k UL MIMO		QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum Conducted Power(W)	Emission Designator (99%OBW)	Maximum Conducted Power(W)	Emission Designator (99%OBW)
40	3720.00 ~ 3780.00	0.2553	38M5G7D	0.2280	38M5W7D
50	3725.01 ~ 3774.99	0.2570	48M1G7D	0.2312	48M2W7D

5G NR n78 – SCS 30k UL MIMO		QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum Conducted Power(W)	Emission Designator (99%OBW)	Maximum Conducted Power(W)	Emission Designator (99%OBW)
90	3745.02 ~ 3754.98	0.2344	87M6G7D	0.2099	87M6W7D

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

1.7 Testing Location

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

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-SZ	CN1256	421272

1.8 Applicable Standards

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

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

Remark:

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

2 Test Configuration of Equipment Under Test

2.1 Test Mode

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

Test Items	5G NR	Bandwidth (MHz)	Modulation					RB #			Test Channel		
		40,50,90	PI/2 BPSK	QPSK	16QAM	64QAM	256 QAM	1	Partial	Full	L	M	H
Max. Output Power	n77	v	v	v	v			v		v	v	v	v
	n78	v	v	v	v			v		v	v	v	v
26dB and 99% Bandwidth	n77	v		v	v	v	v			v		v	
	n78	v		v	v	v	v			v		v	
Conducted Band Edge	n77	v	v	v				v		v	v		v
	n78	v	v	v				v		v	v		v
Conducted Spurious Emission	n77	v	v	v				v			v	v	v
	n78	v	v	v				v			v	v	v
Note	1. The mark "v " means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. All test items are based on engineering evaluation.												

2.2 Measurement Results Explanation Example

For all conducted test items:

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

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

Offset = RF cable loss.

Following shows an offset computation example with cable loss 8.9 dB.

Example :

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\
 &= 8.9 \text{ (dB)}
 \end{aligned}$$

2.3 Frequency List of Low/Middle/High Channels

5G n77 (15kHz) Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
50	Channel	648334	656000	663666
	Frequency	3725.01	3840	3954.99
40	Channel	648000	656000	664000
	Frequency	3720	3840	3960

5G n78(15kHz) Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
50	Channel	648334	650000	651666
	Frequency	3725.01	3750	3774.99
40	Channel	648000	650000	652000
	Frequency	3720	3750	3780

5G n77(30kHz) Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
90	Channel	649668	656000	662332
	Frequency	3745.02	3840	3934.98

5G n78(30kHz) Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
90	Channel	649668	650000	650332
	Frequency	3745.02	3750	3754.98

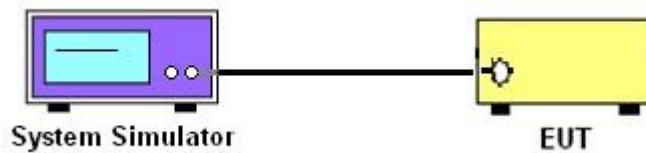
3 Conducted Test Items

3.1 Measuring Instruments

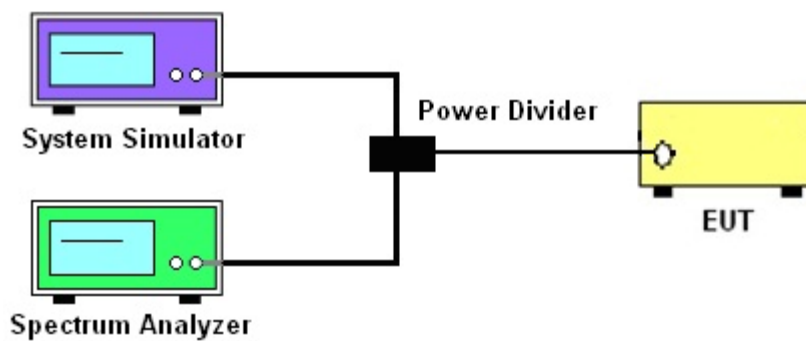
See list of measuring instruments of this test report.

3.2 Test Setup

3.2.1 Conducted Output Power



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



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and EIRP

3.4.1 Description of the Conducted Output Power Measurement and EIRP Measurement

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

The EIRP of mobile transmitters must not exceed 1 Watts for 5G NR n77/n78.

According to KDB 412172 D01 Power Approach,

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

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.4.2 Test Procedures

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

3.5 Occupied Bandwidth

3.5.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.5.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.4
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
(this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.6 Conducted Band Edge

3.6.1 Description of Conducted Band Edge Measurement

27.53(l)(2)

For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.

3.6.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW $\geq$ 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used or a narrower RBW was used (generally limited to no less than 1% of the OBW) and the measured power was integrated over the full required measurement bandwidth.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.

Example:

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

9. When using the integration method, the starting frequency of the integration shall be centered at one-half of the RBW away from the band edge.

3.7 Conducted Spurious Emission

3.7.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
 $= -13\text{dBm}$.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 09, 2024	Mar. 21, 2025~ Mar. 27, 2025	Apr. 08, 2025	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 24, 2024	Mar. 21, 2025~ Mar. 27, 2025	Dec. 23, 2025	Conducted (TH01-SZ)



5 Measurement Uncertainty

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

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	± 1.34 dB
Occupied Channel Bandwidth	± 0.012 MHz
Conducted Power	± 1.34 dB

----- THE END -----



Appendix A. Test Results of Conducted Test

Test Engineer :	Khan	Temperature :	22~23°C
		Relative Humidity :	40~42%



Software Version: 23.06.1602

FR1 N77 - SCS 15k

Transmitter Conducted Output Power and EIRP (GT - LC)=3.0dB

NR Band	SCS	Band Width	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	Conducted Power(W)	EIRP(dBm)	EIRP(W)
77	15	40	648000	3720	DFT-s-OFDM PI/2 BPSK	108@54	24.42	0.2767	27.42	0.5521
77	15	40	648000	3720	DFT-s-OFDM PI/2 BPSK	1@1	24.03	0.2529	27.03	0.5047
77	15	40	648000	3720	DFT-s-OFDM PI/2 BPSK	1@214	23.88	0.2443	26.88	0.4875
77	15	40	648000	3720	DFT-s-OFDM QPSK	108@54	24.34	0.2716	27.34	0.5420
77	15	40	648000	3720	DFT-s-OFDM QPSK	1@1	23.98	0.2500	26.98	0.4989
77	15	40	648000	3720	DFT-s-OFDM QPSK	1@214	23.76	0.2377	26.76	0.4742
77	15	40	648000	3720	DFT-s-OFDM 16 QAM	108@54	23.39	0.2183	26.39	0.4355
77	15	40	648000	3720	DFT-s-OFDM 16 QAM	1@1	23.15	0.2065	26.15	0.4121
77	15	40	648000	3720	DFT-s-OFDM 16 QAM	1@214	22.87	0.1936	25.87	0.3864
77	15	40	656000	3840	DFT-s-OFDM PI/2 BPSK	108@54	24.62	0.2897	27.62	0.5781
77	15	40	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	23.99	0.2506	26.99	0.5000
77	15	40	656000	3840	DFT-s-OFDM PI/2 BPSK	1@214	23.94	0.2477	26.94	0.4943
77	15	40	656000	3840	DFT-s-OFDM QPSK	108@54	24.56	0.2858	27.56	0.5702
77	15	40	656000	3840	DFT-s-OFDM QPSK	1@1	23.9	0.2455	26.9	0.4898
77	15	40	656000	3840	DFT-s-OFDM QPSK	1@214	23.83	0.2415	26.83	0.4819
77	15	40	656000	3840	DFT-s-OFDM 16 QAM	108@54	23.61	0.2296	26.61	0.4581
77	15	40	656000	3840	DFT-s-OFDM 16 QAM	1@1	23.07	0.2028	26.07	0.4046
77	15	40	656000	3840	DFT-s-OFDM 16 QAM	1@214	22.95	0.1972	25.95	0.3936
77	15	40	664000	3960	DFT-s-OFDM PI/2 BPSK	108@54	24.93	0.3112	27.93	0.6209
77	15	40	664000	3960	DFT-s-OFDM PI/2 BPSK	1@1	24.28	0.2679	27.28	0.5346
77	15	40	664000	3960	DFT-s-OFDM PI/2 BPSK	1@214	24.41	0.2761	27.41	0.5508
77	15	40	664000	3960	DFT-s-OFDM QPSK	108@54	24.84	0.3048	27.84	0.6081
77	15	40	664000	3960	DFT-s-OFDM QPSK	1@1	24.14	0.2594	27.14	0.5176
77	15	40	664000	3960	DFT-s-OFDM QPSK	1@214	24.33	0.2710	27.33	0.5408
77	15	40	664000	3960	DFT-s-OFDM 16 QAM	108@54	23.88	0.2443	26.88	0.4875
77	15	40	664000	3960	DFT-s-OFDM 16 QAM	1@1	23.3	0.2138	26.3	0.4266
77	15	40	664000	3960	DFT-s-OFDM 16 QAM	1@214	23.47	0.2223	26.47	0.4436
77	15	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	135@67	24.33	0.2710	27.33	0.5408
77	15	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	1@1	24.26	0.2667	27.26	0.5321
77	15	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	1@268	24.15	0.2600	27.15	0.5188
77	15	50	648334	3725.01	DFT-s-OFDM QPSK	135@67	24.23	0.2649	27.23	0.5284
77	15	50	648334	3725.01	DFT-s-OFDM QPSK	1@1	24.2	0.2630	27.2	0.5248
77	15	50	648334	3725.01	DFT-s-OFDM QPSK	1@268	24.09	0.2564	27.09	0.5117
77	15	50	648334	3725.01	DFT-s-OFDM 16 QAM	135@67	23.28	0.2128	26.28	0.4246
77	15	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@1	23.32	0.2148	26.32	0.4285
77	15	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@268	23.21	0.2094	26.21	0.4178
77	15	50	656000	3840	DFT-s-OFDM PI/2 BPSK	135@67	24.61	0.2891	27.61	0.5768



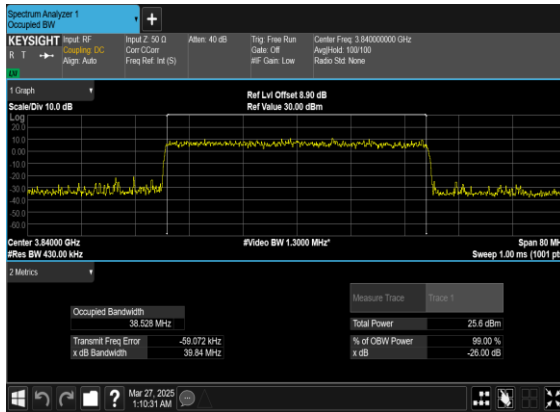
77	15	50	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	24.19	0.2624	27.19	0.5236
77	15	50	656000	3840	DFT-s-OFDM PI/2 BPSK	1@268	24.11	0.2576	27.11	0.5140
77	15	50	656000	3840	DFT-s-OFDM QPSK	135@67	24.56	0.2858	27.56	0.5702
77	15	50	656000	3840	DFT-s-OFDM QPSK	1@1	24.16	0.2606	27.16	0.5200
77	15	50	656000	3840	DFT-s-OFDM QPSK	1@268	24.04	0.2535	27.04	0.5058
77	15	50	656000	3840	DFT-s-OFDM 16 QAM	135@67	23.6	0.2291	26.6	0.4571
77	15	50	656000	3840	DFT-s-OFDM 16 QAM	1@1	23.33	0.2153	26.33	0.4295
77	15	50	656000	3840	DFT-s-OFDM 16 QAM	1@268	23.23	0.2104	26.23	0.4198
77	15	50	663666	3954.99	DFT-s-OFDM PI/2 BPSK	135@67	25.03	0.3184	28.03	0.6353
77	15	50	663666	3954.99	DFT-s-OFDM PI/2 BPSK	1@1	24.55	0.2851	27.55	0.5689
77	15	50	663666	3954.99	DFT-s-OFDM PI/2 BPSK	1@268	24.72	0.2965	27.72	0.5916
77	15	50	663666	3954.99	DFT-s-OFDM QPSK	135@67	24.92	0.3105	27.92	0.6194
77	15	50	663666	3954.99	DFT-s-OFDM QPSK	1@1	24.4	0.2754	27.4	0.5495
77	15	50	663666	3954.99	DFT-s-OFDM QPSK	1@268	24.58	0.2871	27.58	0.5728
77	15	50	663666	3954.99	DFT-s-OFDM 16 QAM	135@67	23.93	0.2472	26.93	0.4932
77	15	50	663666	3954.99	DFT-s-OFDM 16 QAM	1@1	23.57	0.2275	26.57	0.4539
77	15	50	663666	3954.99	DFT-s-OFDM 16 QAM	1@268	23.75	0.2371	26.75	0.4732

**Occupied Bandwidth**

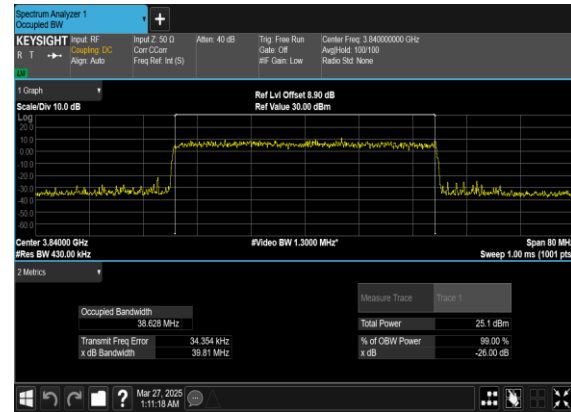
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
77	15	40	656000	3840.0	CP-OFDM QPSK	216@0	38.528	39.84
77	15	40	656000	3840.0	CP-OFDM 16 QAM	216@0	38.628	39.81
77	15	40	656000	3840.0	CP-OFDM 64 QAM	216@0	38.495	39.81
77	15	40	656000	3840.0	CP-OFDM 256 QAM	216@0	38.608	39.77
77	15	50	656000	3840.0	CP-OFDM QPSK	270@0	48.227	49.67
77	15	50	656000	3840.0	CP-OFDM 16 QAM	270@0	48.023	49.64
77	15	50	656000	3840.0	CP-OFDM 64 QAM	270@0	48.265	49.87
77	15	50	656000	3840.0	CP-OFDM 256 QAM	270@0	48.029	49.68



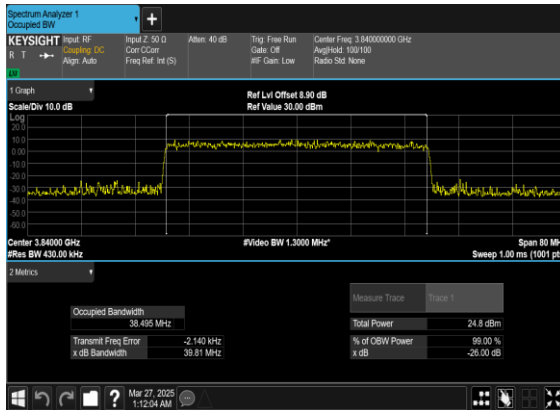
N77(40M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



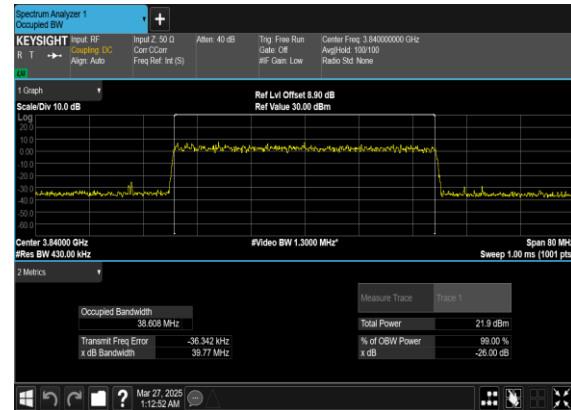
N77(40M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(40M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

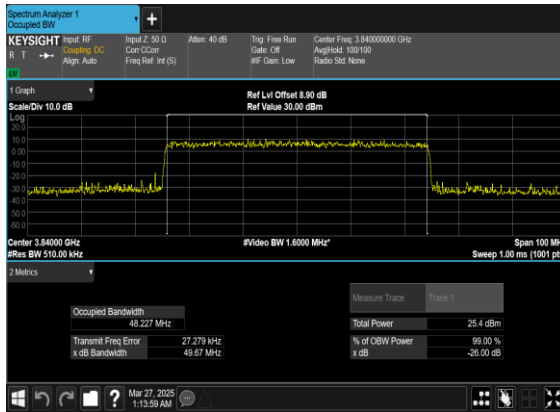


N77(40M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

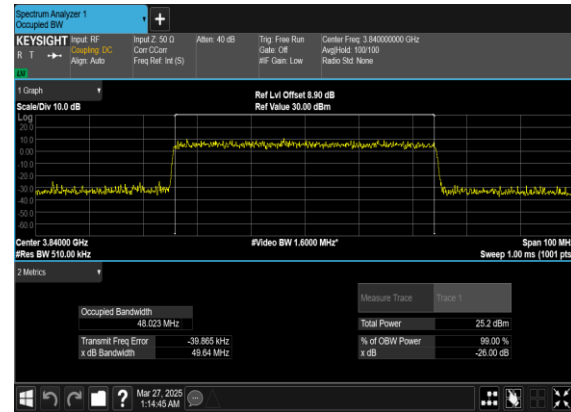




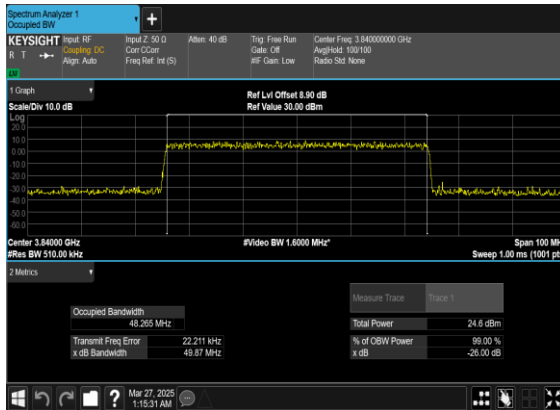
N77(50M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



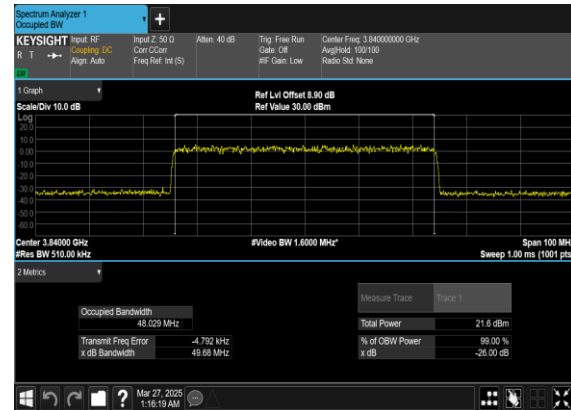
N77(50M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(50M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N77(50M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



**Conducted Spurious Emissions**

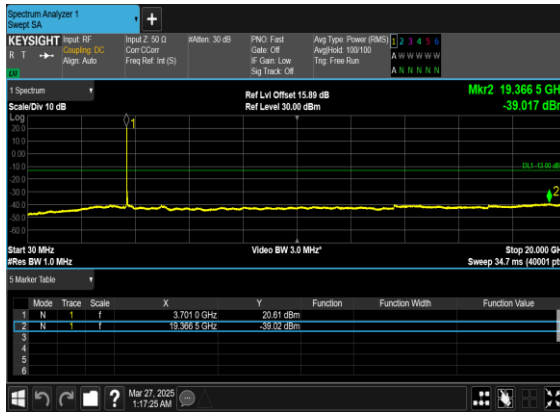
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	15	40	648000	3720.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	15	40	648000	3720.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	15	40	648000	3720.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	15	40	648000	3720.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	15	40	648000	3720.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	15	40	648000	3720.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	15	40	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	15	40	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	15	40	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	15	40	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	15	40	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	15	40	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	15	40	664000	3960.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	15	40	664000	3960.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	15	40	664000	3960.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	15	40	664000	3960.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	15	40	664000	3960.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	15	40	664000	3960.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	15	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	15	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	PASS



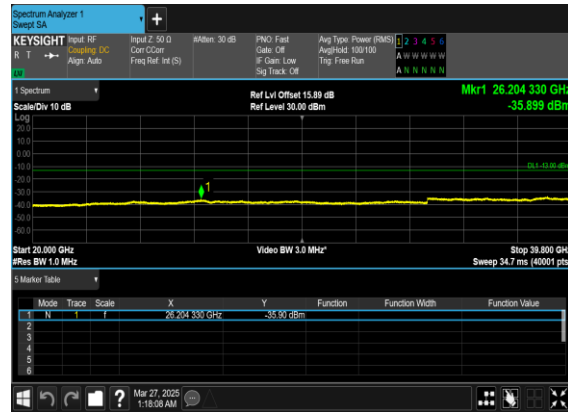
77	15	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	15	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	---
77	15	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	15	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	15	50	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	15	50	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	15	50	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	15	50	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	15	50	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	15	50	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	15	50	663666	3954.99	DFT-s-OFDM BPSK	1@0	see graph	---
77	15	50	663666	3954.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	15	50	663666	3954.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	15	50	663666	3954.99	DFT-s-OFDM QPSK	1@0	see graph	---
77	15	50	663666	3954.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	15	50	663666	3954.99	DFT-s-OFDM QPSK	1@0	see graph	PASS



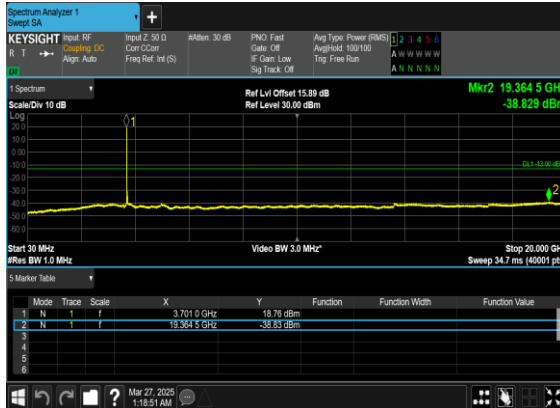
N77(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



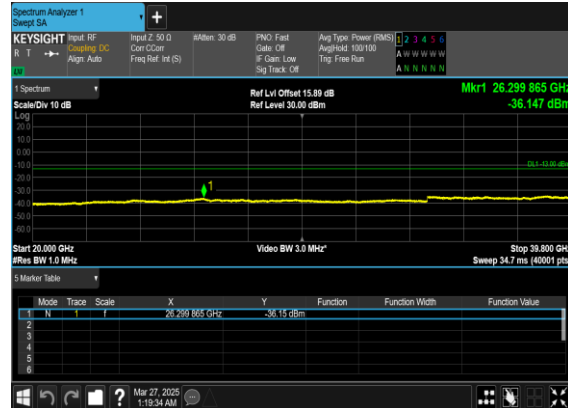
N77(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N77(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

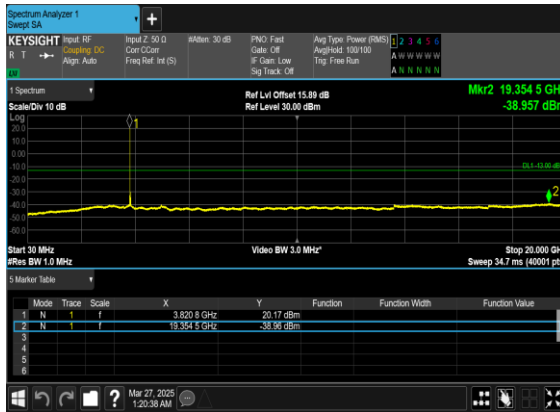


N77(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

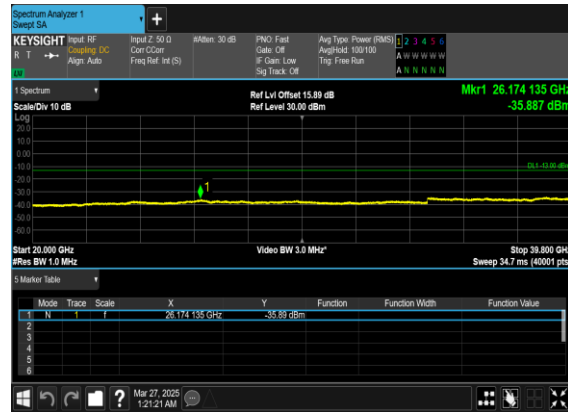




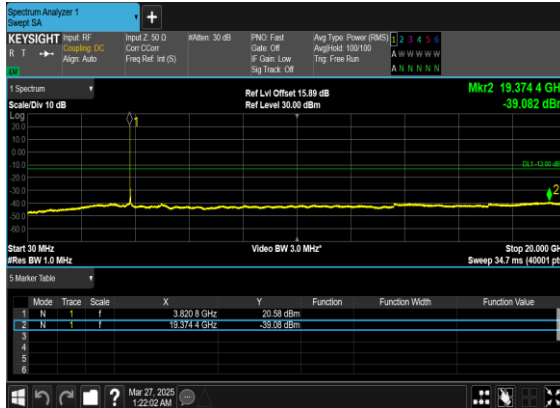
N77(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



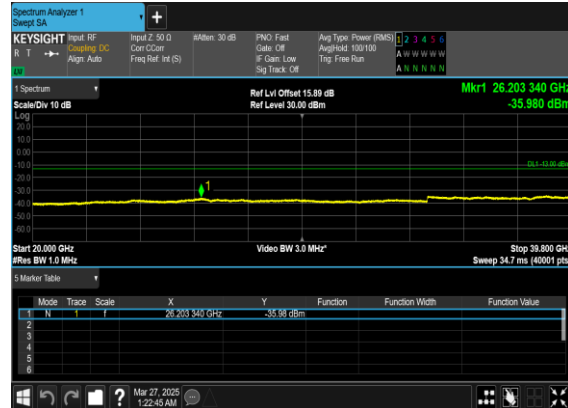
N77(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N77(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

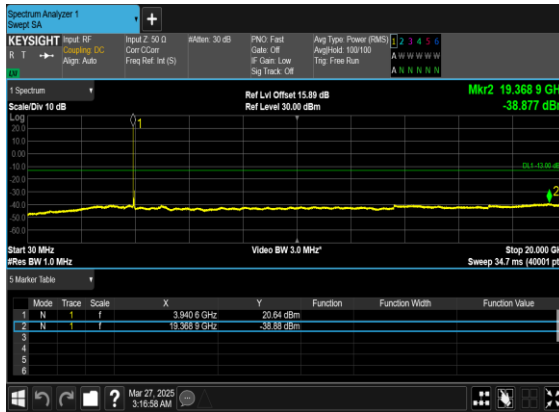


N77(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

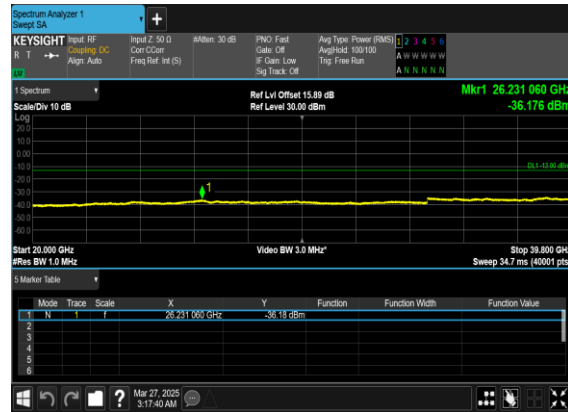




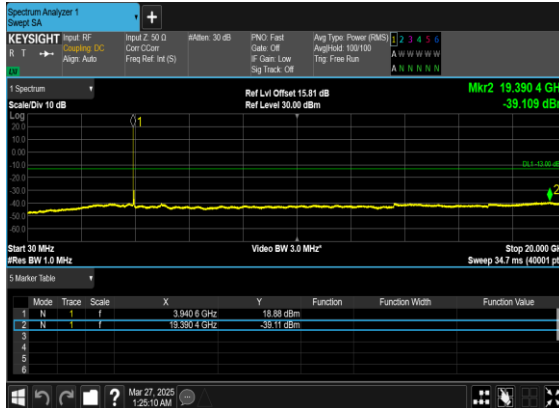
N77(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



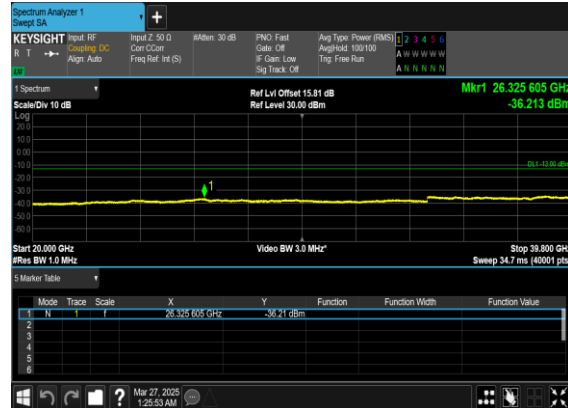
N77(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



N77(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

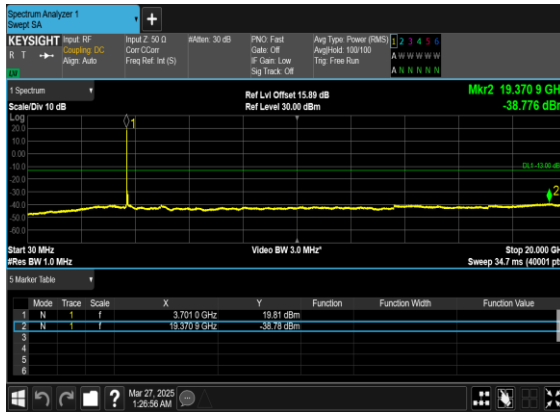


N77(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

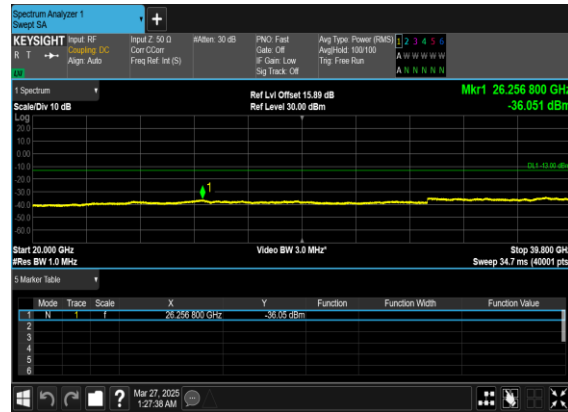




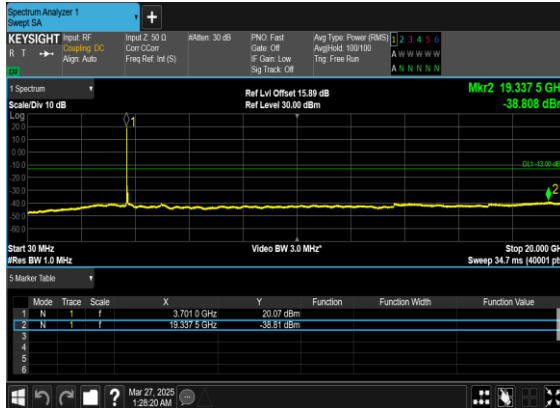
N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



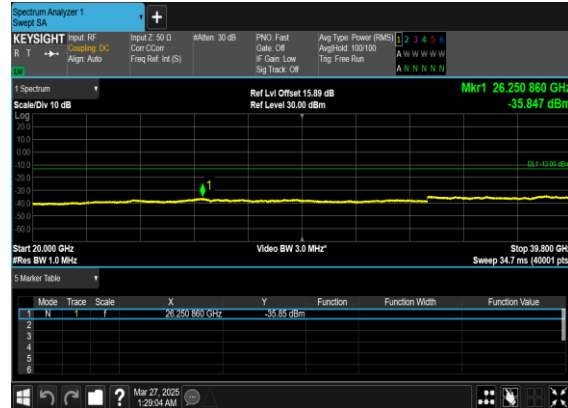
N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

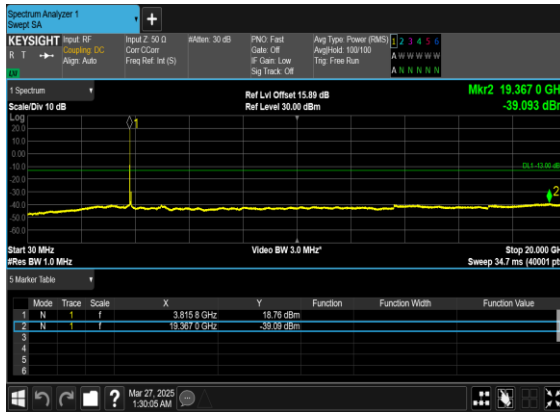


N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

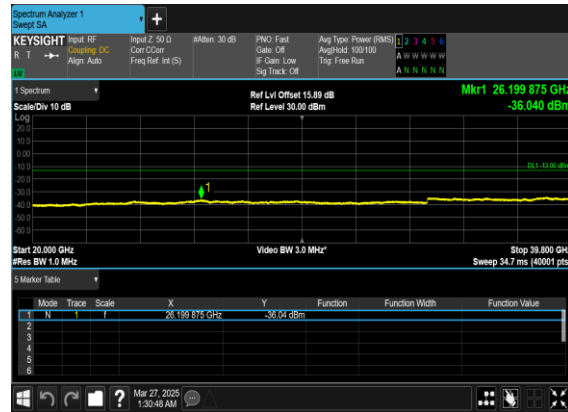




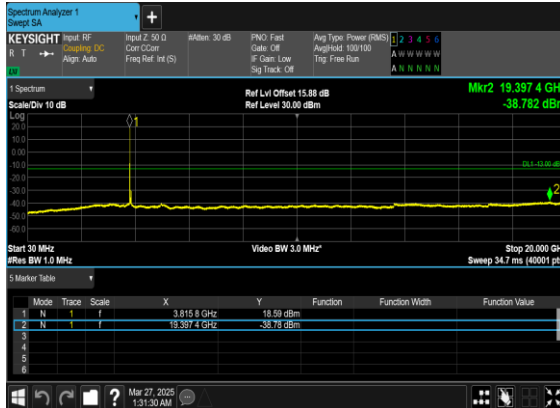
N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



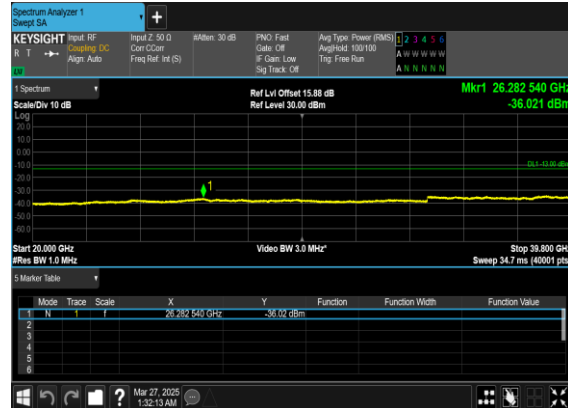
N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

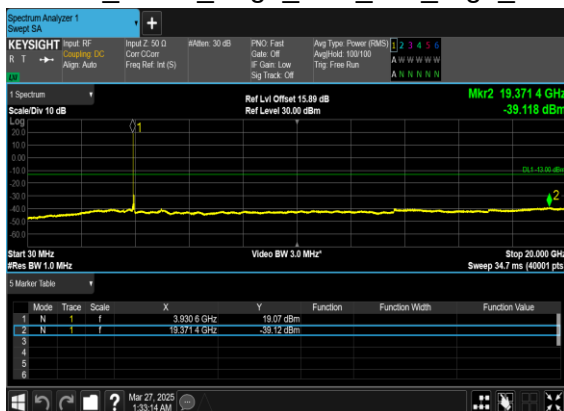


N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH





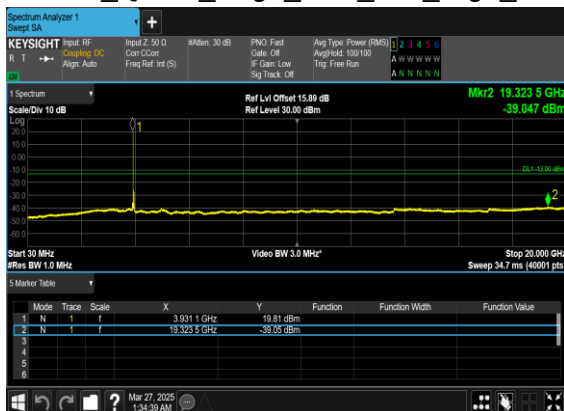
N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

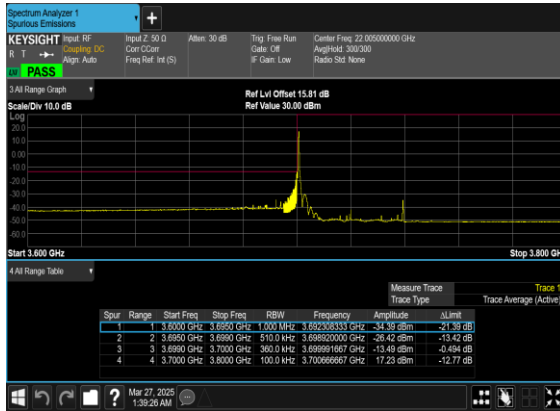


**Conducted Band Edge**

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	15	40	648000	3720.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	15	40	648000	3720.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	15	40	648000	3720.0	DFT-s-OFDM BPSK	216@0	see graph	PASS
77	15	40	648000	3720.0	DFT-s-OFDM QPSK	216@0	see graph	PASS
77	15	40	664000	3960.0	DFT-s-OFDM BPSK	1@215	see graph	PASS
77	15	40	664000	3960.0	DFT-s-OFDM QPSK	1@215	see graph	PASS
77	15	40	664000	3960.0	DFT-s-OFDM BPSK	216@0	see graph	PASS
77	15	40	664000	3960.0	DFT-s-OFDM QPSK	216@0	see graph	PASS
77	15	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	15	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	15	50	648334	3725.01	DFT-s-OFDM BPSK	270@0	see graph	PASS
77	15	50	648334	3725.01	DFT-s-OFDM QPSK	270@0	see graph	PASS
77	15	50	663666	3954.99	DFT-s-OFDM BPSK	1@269	see graph	PASS
77	15	50	663666	3954.99	DFT-s-OFDM QPSK	1@269	see graph	PASS
77	15	50	663666	3954.99	DFT-s-OFDM BPSK	270@0	see graph	PASS
77	15	50	663666	3954.99	DFT-s-OFDM QPSK	270@0	see graph	PASS



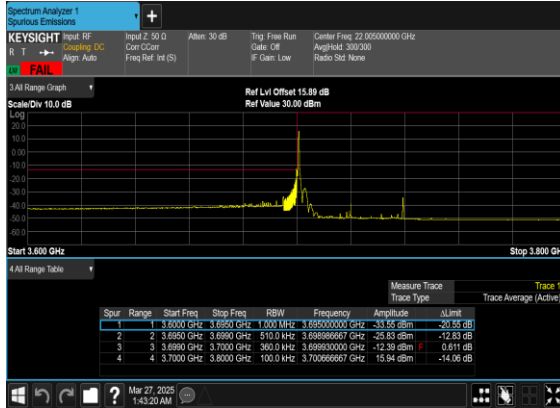
N77(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N77(40M)_DFT-s-OFDM_BPSK
Edge_1RB_Left_Low_CH_CH_PASS



N77(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

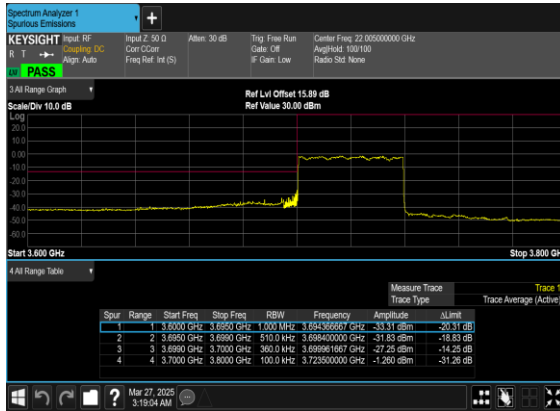


N77(40M)_DFT-s-OFDM_QPSK
Edge_1RB_Left_Low_CH_CH_PASS

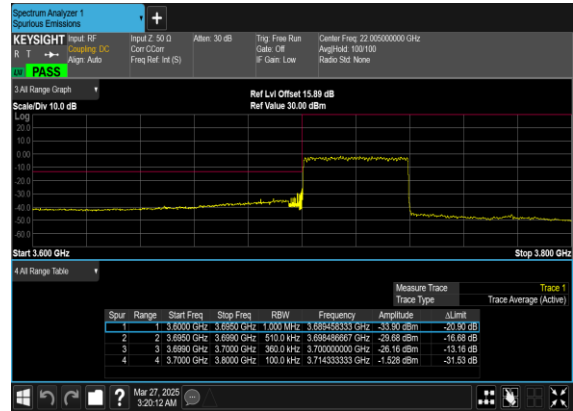




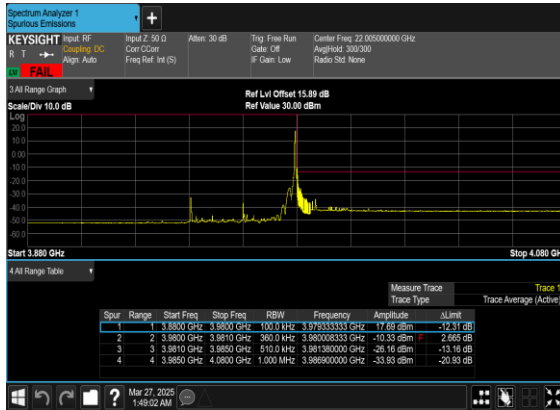
N77(40M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



N77(40M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



N77(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH

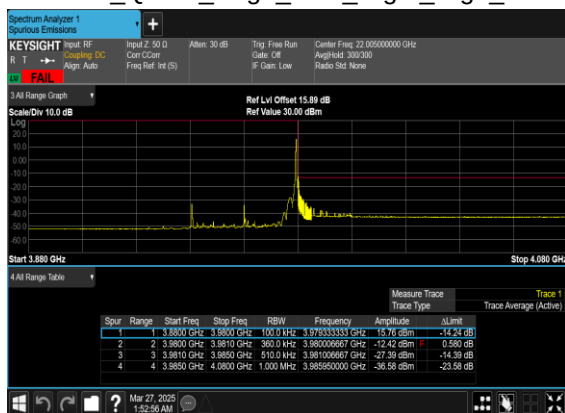


N77(40M)_DFT-s-OFDM_BPSK
_Edge_1RB_Right_High_CH_CHP_PASS

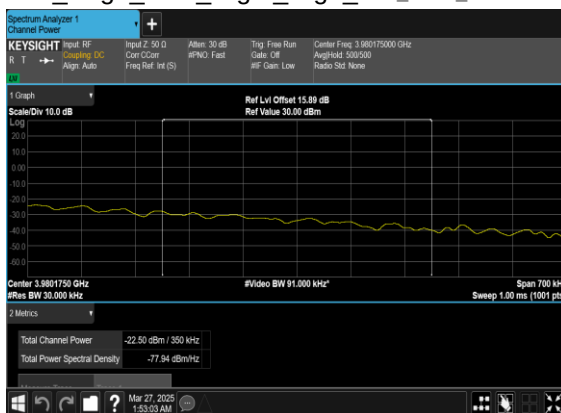




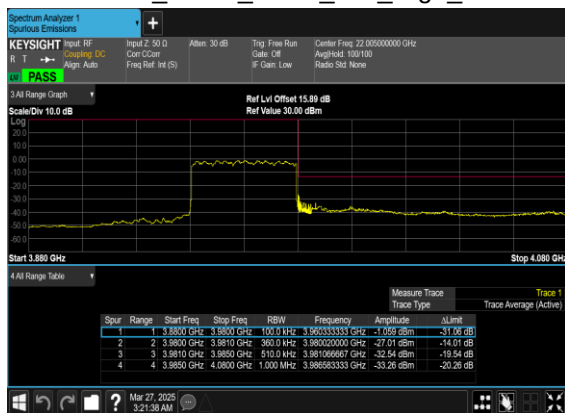
N77(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



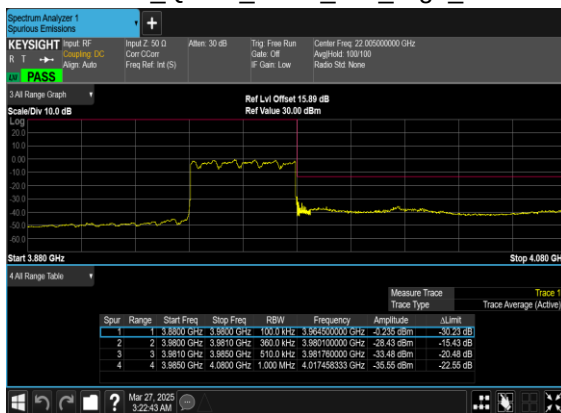
N77(40M)_DFT-s-OFDM_QPSK
Edge_1RB_Right_High_CH_ch P_PASS



N77(40M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



N77(40M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH

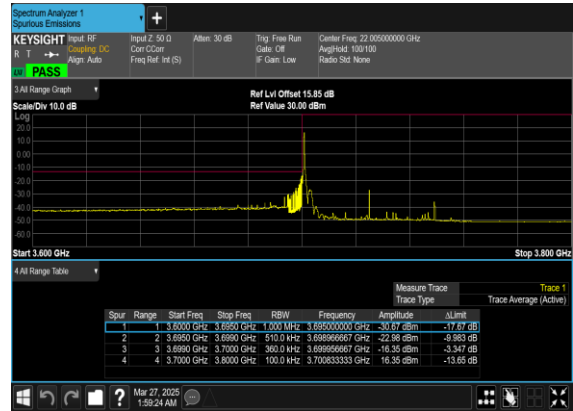




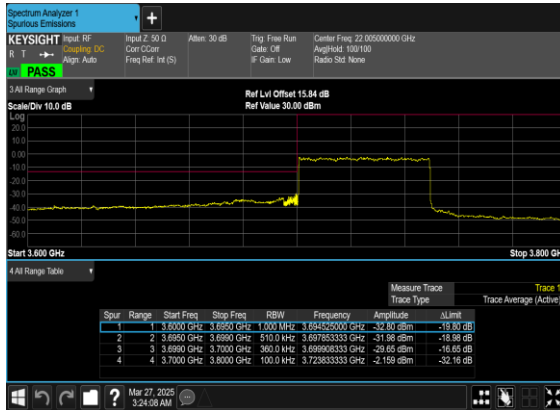
N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



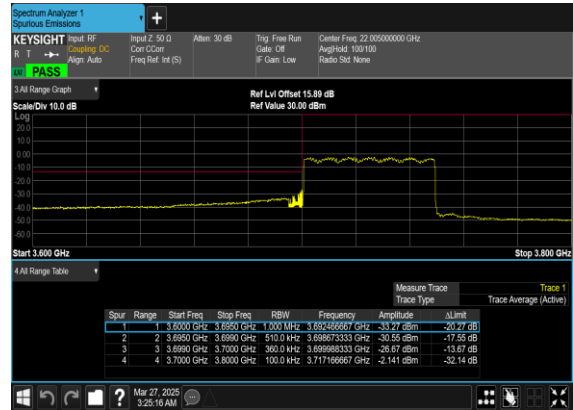
N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(50M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH

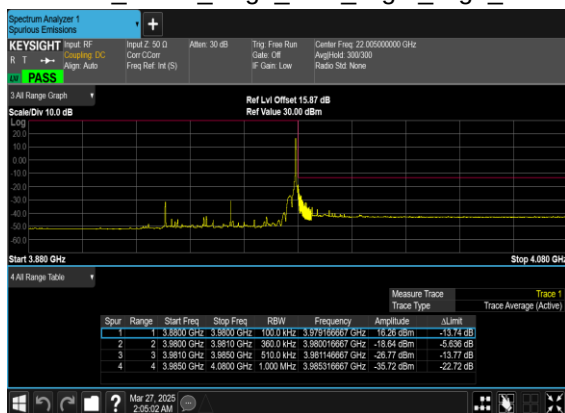


N77(50M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH

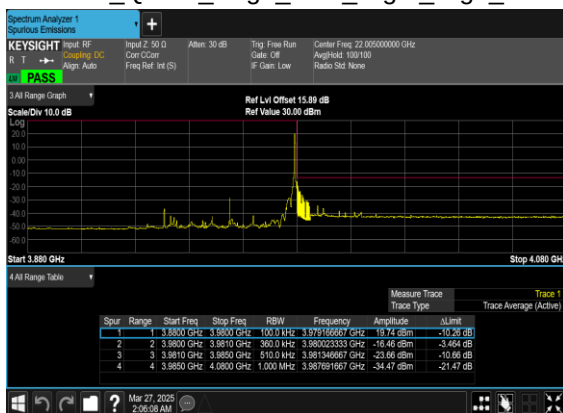




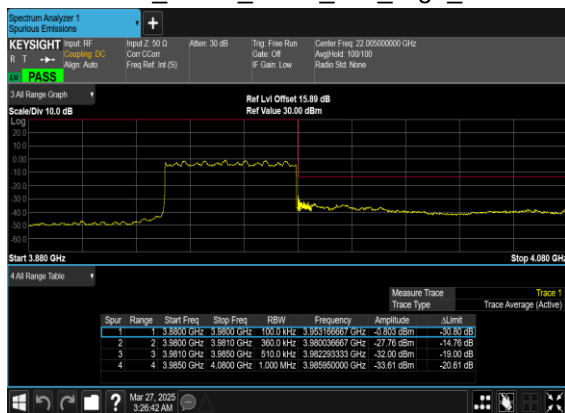
N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



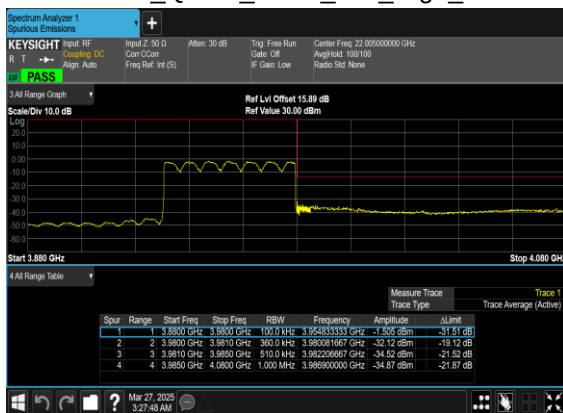
N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



N77(50M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



N77(50M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH





FR1 N77 - SCS 30k

Transmitter Conducted Output Power and EIRP (GT - LC)=3.0dB

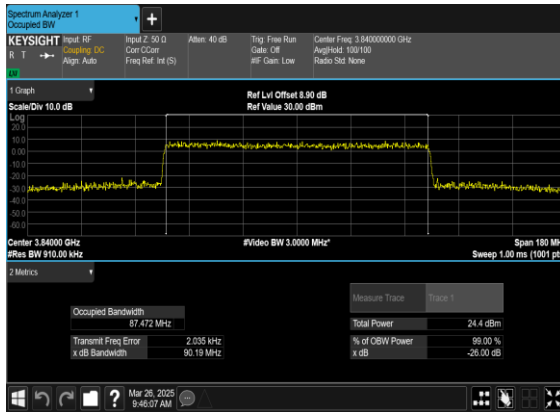
NR	Band	SCS	Band Width	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	Conducted Power(W)	EIRP(dBm)	EIRP(W)
77	30	90	649668	3745.02	DFT-s-OFDM PI/2 BPSK	120@60	24.42	0.2767	27.42	0.5521	
77	30	90	649668	3745.02	DFT-s-OFDM PI/2 BPSK	1@1	24.08	0.2559	27.08	0.5105	
77	30	90	649668	3745.02	DFT-s-OFDM PI/2 BPSK	1@243	24.33	0.2710	27.33	0.5408	
77	30	90	649668	3745.02	DFT-s-OFDM QPSK	120@60	24.34	0.2716	27.34	0.5420	
77	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@1	24	0.2512	27	0.5012	
77	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@243	24.27	0.2673	27.27	0.5333	
77	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	120@60	23.32	0.2148	26.32	0.4285	
77	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@1	22.95	0.1972	25.95	0.3936	
77	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@243	23.14	0.2061	26.14	0.4111	
77	30	90	656000	3840	DFT-s-OFDM PI/2 BPSK	120@60	24.69	0.2944	27.69	0.5875	
77	30	90	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	24.01	0.2518	27.01	0.5023	
77	30	90	656000	3840	DFT-s-OFDM PI/2 BPSK	1@243	24.13	0.2588	27.13	0.5164	
77	30	90	656000	3840	DFT-s-OFDM QPSK	120@60	24.56	0.2858	27.56	0.5702	
77	30	90	656000	3840	DFT-s-OFDM QPSK	1@1	23.88	0.2443	26.88	0.4875	
77	30	90	656000	3840	DFT-s-OFDM QPSK	1@243	23.94	0.2477	26.94	0.4943	
77	30	90	656000	3840	DFT-s-OFDM 16 QAM	120@60	23.56	0.2270	26.56	0.4529	
77	30	90	656000	3840	DFT-s-OFDM 16 QAM	1@1	22.82	0.1914	25.82	0.3819	
77	30	90	656000	3840	DFT-s-OFDM 16 QAM	1@243	22.81	0.1910	25.81	0.3811	
77	30	90	662332	3934.98	DFT-s-OFDM PI/2 BPSK	120@60	24.96	0.3133	27.96	0.6252	
77	30	90	662332	3934.98	DFT-s-OFDM PI/2 BPSK	1@1	23.99	0.2506	26.99	0.5000	
77	30	90	662332	3934.98	DFT-s-OFDM PI/2 BPSK	1@243	24.61	0.2891	27.61	0.5768	
77	30	90	662332	3934.98	DFT-s-OFDM QPSK	120@60	24.88	0.3076	27.88	0.6138	
77	30	90	662332	3934.98	DFT-s-OFDM QPSK	1@1	23.88	0.2443	26.88	0.4875	
77	30	90	662332	3934.98	DFT-s-OFDM QPSK	1@243	24.46	0.2793	27.46	0.5572	
77	30	90	662332	3934.98	DFT-s-OFDM 16 QAM	120@60	23.88	0.2443	26.88	0.4875	
77	30	90	662332	3934.98	DFT-s-OFDM 16 QAM	1@1	22.78	0.1897	25.78	0.3784	
77	30	90	662332	3934.98	DFT-s-OFDM 16 QAM	1@243	23.32	0.2148	26.32	0.4285	

**Occupied Bandwidth**

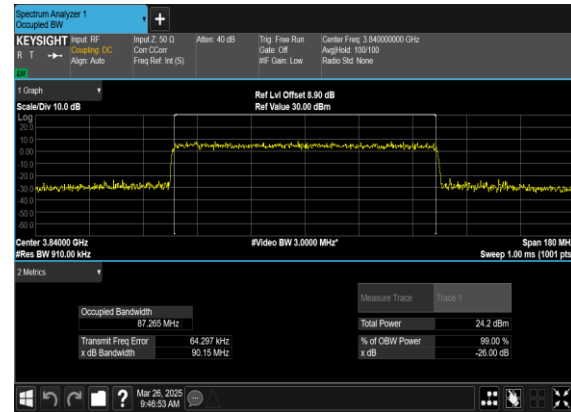
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
77	30	90	656000	3840.0	CP-OFDM QPSK	245@0	87.472	90.19
77	30	90	656000	3840.0	CP-OFDM 16 QAM	245@0	87.265	90.15
77	30	90	656000	3840.0	CP-OFDM 64 QAM	245@0	87.701	90.34
77	30	90	656000	3840.0	CP-OFDM 256 QAM	245@0	87.521	90.2



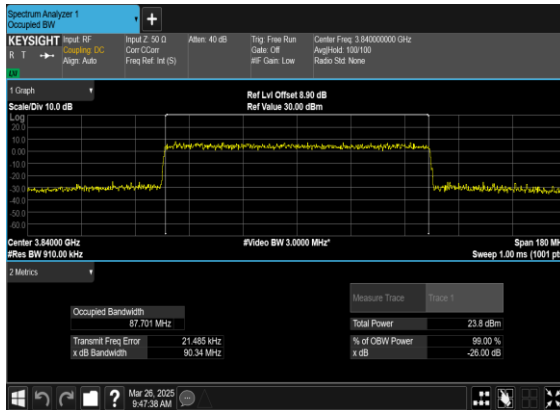
N77(90M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



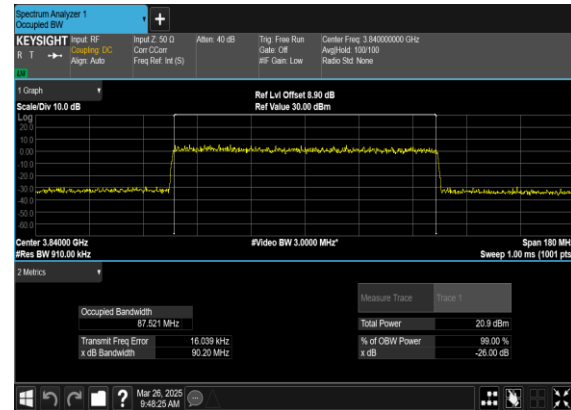
N77(90M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(90M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N77(90M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



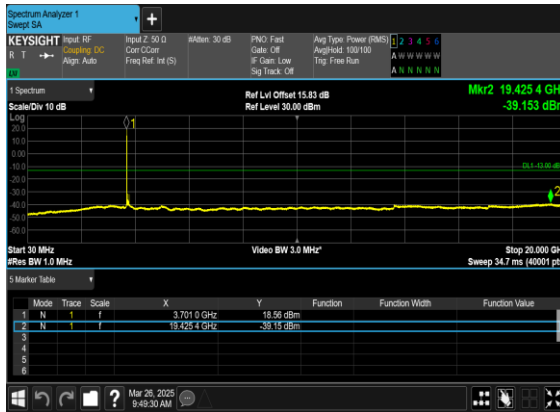


Conducted Spurious Emissions

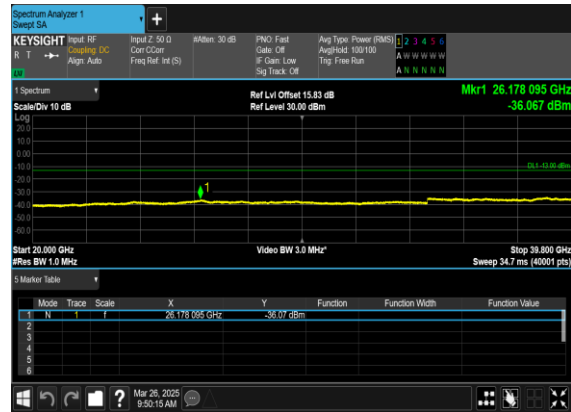
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	90	649668	3745.02	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	90	649668	3745.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	90	649668	3745.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	90	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	90	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	90	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	90	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	90	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	90	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	90	662332	3934.98	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	90	662332	3934.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	90	662332	3934.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	90	662332	3934.98	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	90	662332	3934.98	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	90	662332	3934.98	DFT-s-OFDM QPSK	1@0	see graph	PASS



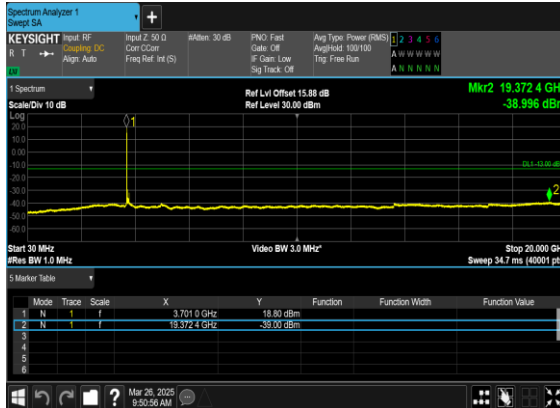
N77(90M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



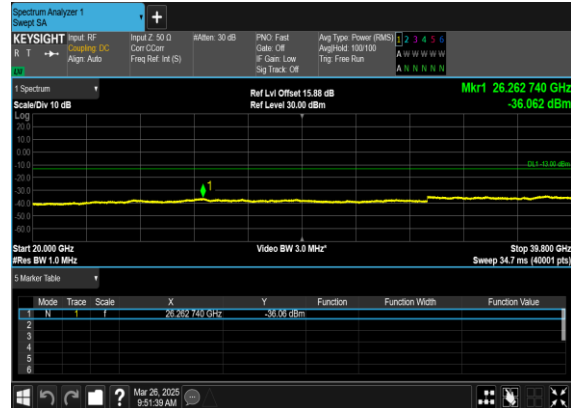
N77(90M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N77(90M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

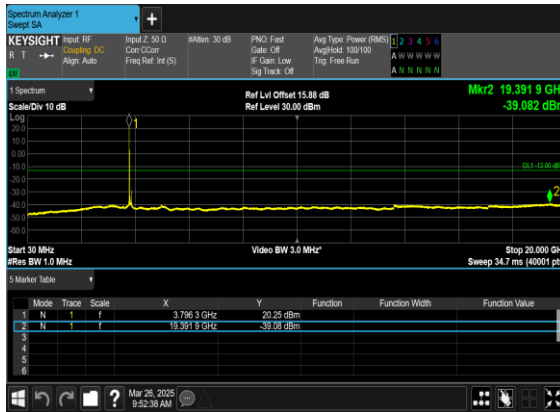


N77(90M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

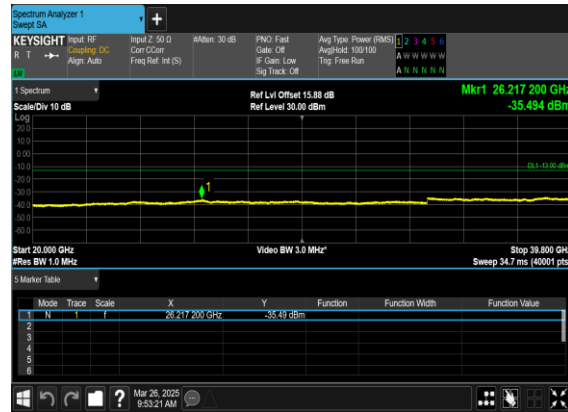




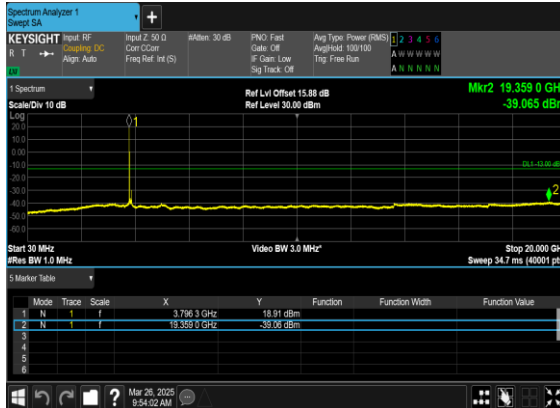
N77(90M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



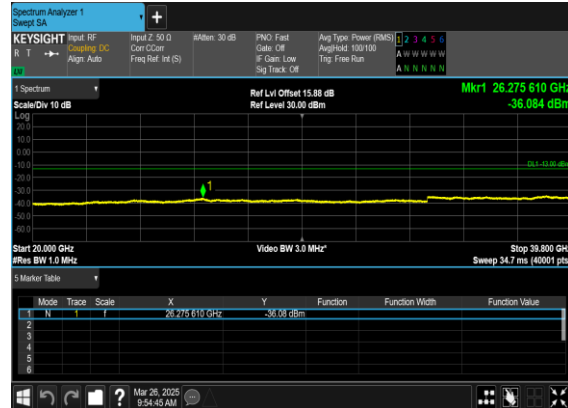
N77(90M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N77(90M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

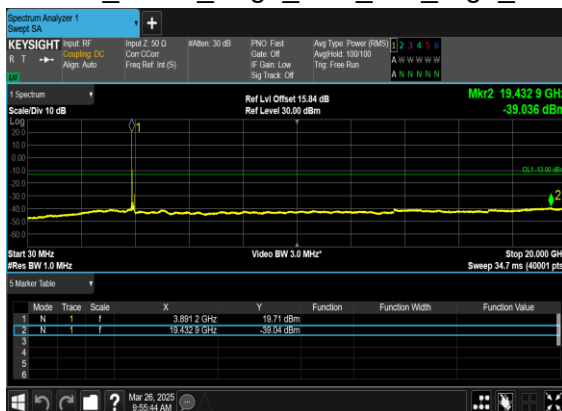


N77(90M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

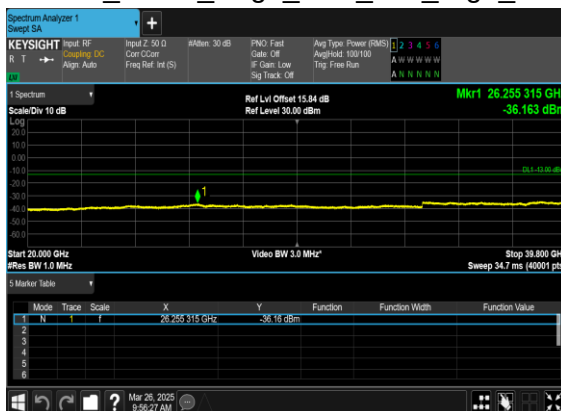




N77(90M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



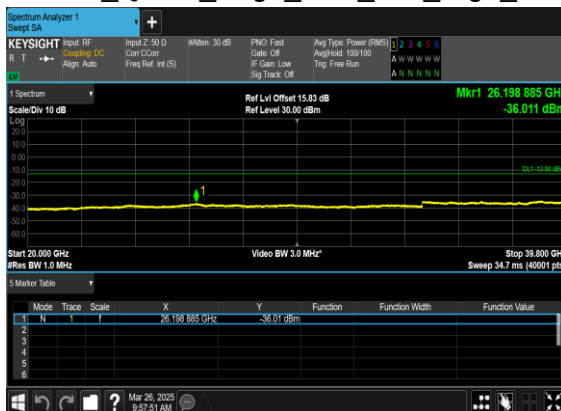
N77(90M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



N77(90M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



N77(90M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

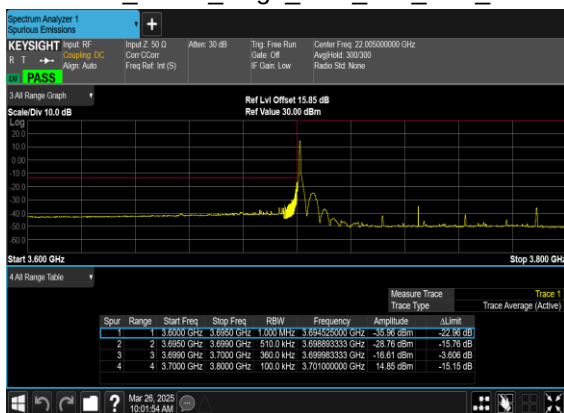


**Conducted Band Edge**

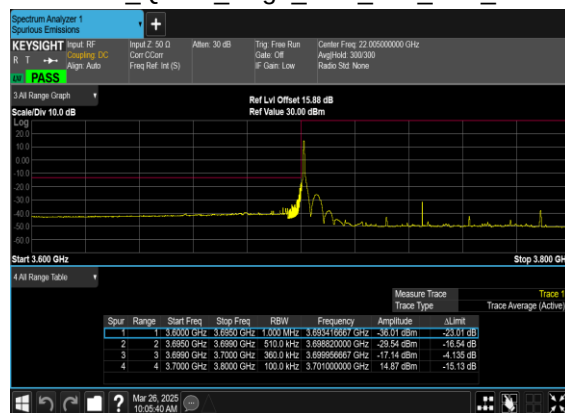
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	90	649668	3745.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	90	649668	3745.02	DFT-s-OFDM BPSK	240@0	see graph	PASS
77	30	90	649668	3745.02	DFT-s-OFDM QPSK	240@0	see graph	PASS
77	30	90	662332	3934.98	DFT-s-OFDM BPSK	1@244	see graph	PASS
77	30	90	662332	3934.98	DFT-s-OFDM QPSK	1@244	see graph	PASS
77	30	90	662332	3934.98	DFT-s-OFDM BPSK	240@0	see graph	PASS
77	30	90	662332	3934.98	DFT-s-OFDM QPSK	240@0	see graph	PASS



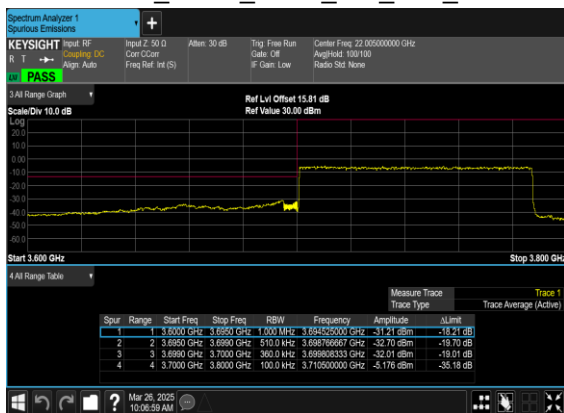
N77(90M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



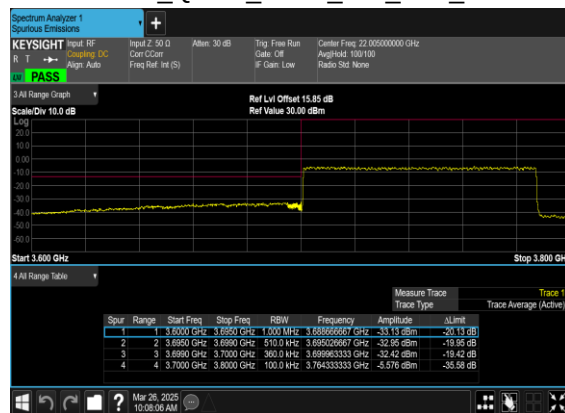
N77(90M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(90M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH

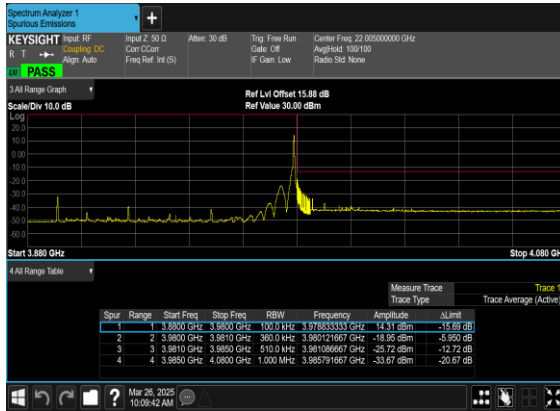


N77(90M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH





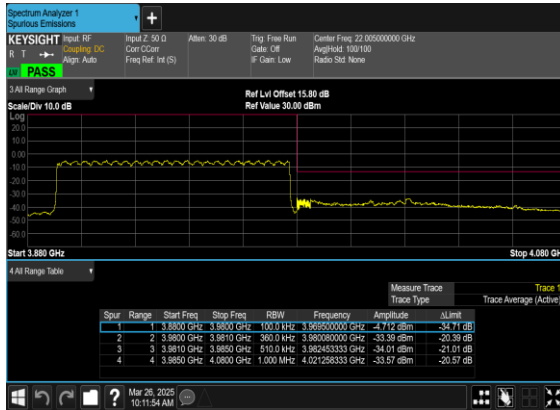
N77(90M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



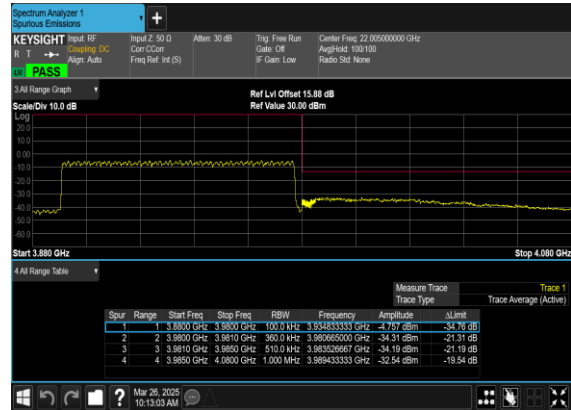
N77(90M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



N77(90M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



N77(90M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH





Software Version: 23.06.1602

FR1 N77 - SCS 15k

LTE Band: 2, LTE BW: 10M, LTE ARFCN: Mid

Transmitter Conducted Output Power and EIRP (GT - LC)=3.0dB

NR Band	SCS	Band Width	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	Conducted Power(W)	EIRP(dBm)	EIRP(W)
77	15	40	648000	3720	DFT-s-OFDM PI/2 BPSK	108@54	24.31	0.2698	27.31	0.5383
77	15	40	648000	3720	DFT-s-OFDM PI/2 BPSK	1@1	23.88	0.2443	26.88	0.4875
77	15	40	648000	3720	DFT-s-OFDM PI/2 BPSK	1@214	23.65	0.2317	26.65	0.4624
77	15	40	648000	3720	DFT-s-OFDM QPSK	108@54	24.14	0.2594	27.14	0.5176
77	15	40	648000	3720	DFT-s-OFDM QPSK	1@1	23.71	0.2350	26.71	0.4688
77	15	40	648000	3720	DFT-s-OFDM QPSK	1@214	23.55	0.2265	26.55	0.4519
77	15	40	648000	3720	DFT-s-OFDM 16 QAM	108@54	23.11	0.2046	26.11	0.4083
77	15	40	648000	3720	DFT-s-OFDM 16 QAM	1@1	22.83	0.1919	25.83	0.3828
77	15	40	648000	3720	DFT-s-OFDM 16 QAM	1@214	22.64	0.1837	25.64	0.3664
77	15	40	656000	3840	DFT-s-OFDM PI/2 BPSK	108@54	24.29	0.2685	27.29	0.5358
77	15	40	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	23.72	0.2355	26.72	0.4699
77	15	40	656000	3840	DFT-s-OFDM PI/2 BPSK	1@214	23.56	0.2270	26.56	0.4529
77	15	40	656000	3840	DFT-s-OFDM QPSK	108@54	24.16	0.2606	27.16	0.5200
77	15	40	656000	3840	DFT-s-OFDM QPSK	1@1	23.52	0.2249	26.52	0.4487
77	15	40	656000	3840	DFT-s-OFDM QPSK	1@214	23.39	0.2183	26.39	0.4355
77	15	40	656000	3840	DFT-s-OFDM 16 QAM	108@54	23.12	0.2051	26.12	0.4093
77	15	40	656000	3840	DFT-s-OFDM 16 QAM	1@1	22.62	0.1828	25.62	0.3648
77	15	40	656000	3840	DFT-s-OFDM 16 QAM	1@214	22.5	0.1778	25.5	0.3548
77	15	40	664000	3960	DFT-s-OFDM PI/2 BPSK	108@54	24.57	0.2864	27.57	0.5715
77	15	40	664000	3960	DFT-s-OFDM PI/2 BPSK	1@1	23.94	0.2477	26.94	0.4943
77	15	40	664000	3960	DFT-s-OFDM PI/2 BPSK	1@214	24	0.2512	27	0.5012
77	15	40	664000	3960	DFT-s-OFDM QPSK	108@54	24.45	0.2786	27.45	0.5559
77	15	40	664000	3960	DFT-s-OFDM QPSK	1@1	23.75	0.2371	26.75	0.4732
77	15	40	664000	3960	DFT-s-OFDM QPSK	1@214	23.82	0.2410	26.82	0.4808
77	15	40	664000	3960	DFT-s-OFDM 16 QAM	108@54	23.37	0.2173	26.37	0.4335
77	15	40	664000	3960	DFT-s-OFDM 16 QAM	1@1	22.79	0.1901	25.79	0.3793
77	15	40	664000	3960	DFT-s-OFDM 16 QAM	1@214	22.91	0.1954	25.91	0.3899
77	15	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	135@67	24.28	0.2679	27.28	0.5346
77	15	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	1@1	24.03	0.2529	27.03	0.5047
77	15	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	1@268	23.99	0.2506	26.99	0.5000
77	15	50	648334	3725.01	DFT-s-OFDM QPSK	135@67	24.08	0.2559	27.08	0.5105
77	15	50	648334	3725.01	DFT-s-OFDM QPSK	1@1	23.93	0.2472	26.93	0.4932
77	15	50	648334	3725.01	DFT-s-OFDM QPSK	1@268	23.89	0.2449	26.89	0.4887
77	15	50	648334	3725.01	DFT-s-OFDM 16 QAM	135@67	23.1	0.2042	26.1	0.4074
77	15	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@1	23.04	0.2014	26.04	0.4018
77	15	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@268	22.93	0.1963	25.93	0.3917
77	15	50	656000	3840	DFT-s-OFDM PI/2 BPSK	135@67	24.33	0.2710	27.33	0.5408



77	15	50	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	23.94	0.2477	26.94	0.4943
77	15	50	656000	3840	DFT-s-OFDM PI/2 BPSK	1@268	23.76	0.2377	26.76	0.4742
77	15	50	656000	3840	DFT-s-OFDM QPSK	135@67	24.16	0.2606	27.16	0.5200
77	15	50	656000	3840	DFT-s-OFDM QPSK	1@1	23.79	0.2393	26.79	0.4775
77	15	50	656000	3840	DFT-s-OFDM QPSK	1@268	23.63	0.2307	26.63	0.4603
77	15	50	656000	3840	DFT-s-OFDM 16 QAM	135@67	23.21	0.2094	26.21	0.4178
77	15	50	656000	3840	DFT-s-OFDM 16 QAM	1@1	22.92	0.1959	25.92	0.3908
77	15	50	656000	3840	DFT-s-OFDM 16 QAM	1@268	22.76	0.1888	25.76	0.3767
77	15	50	663666	3954.99	DFT-s-OFDM PI/2 BPSK	135@67	24.65	0.2917	27.65	0.5821
77	15	50	663666	3954.99	DFT-s-OFDM PI/2 BPSK	1@1	24.15	0.2600	27.15	0.5188
77	15	50	663666	3954.99	DFT-s-OFDM PI/2 BPSK	1@268	24.31	0.2698	27.31	0.5383
77	15	50	663666	3954.99	DFT-s-OFDM QPSK	135@67	24.47	0.2799	27.47	0.5585
77	15	50	663666	3954.99	DFT-s-OFDM QPSK	1@1	23.99	0.2506	26.99	0.5000
77	15	50	663666	3954.99	DFT-s-OFDM QPSK	1@268	24.11	0.2576	27.11	0.5140
77	15	50	663666	3954.99	DFT-s-OFDM 16 QAM	135@67	23.48	0.2228	26.48	0.4446
77	15	50	663666	3954.99	DFT-s-OFDM 16 QAM	1@1	23.06	0.2023	26.06	0.4036
77	15	50	663666	3954.99	DFT-s-OFDM 16 QAM	1@268	23.16	0.2070	26.16	0.4130

**FR1 N77 - SCS 30k**

LTE Band: 2, LTE BW: 10M, LTE ARFCN: Mid

Transmitter Conducted Output Power and EIRP (GT - LC)=3.0dB

NR Band	SCS	Band Width	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	Conducted Power(W)	EIRP(dBm)	EIRP(W)
77	30	90	649668	3745.02	DFT-s-OFDM PI/2 BPSK	120@60	24.42	0.2767	27.42	0.5521
77	30	90	649668	3745.02	DFT-s-OFDM PI/2 BPSK	1@1	23.99	0.2506	26.99	0.5000
77	30	90	649668	3745.02	DFT-s-OFDM PI/2 BPSK	1@243	24.21	0.2636	27.21	0.5260
77	30	90	649668	3745.02	DFT-s-OFDM QPSK	120@60	24.3	0.2692	27.3	0.5370
77	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@1	23.85	0.2427	26.85	0.4842
77	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@243	24.11	0.2576	27.11	0.5140
77	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	120@60	23.28	0.2128	26.28	0.4246
77	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@1	22.79	0.1901	25.79	0.3793
77	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@243	23.05	0.2018	26.05	0.4027
77	30	90	656000	3840	DFT-s-OFDM PI/2 BPSK	120@60	24.52	0.2831	27.52	0.5649
77	30	90	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	23.96	0.2489	26.96	0.4966
77	30	90	656000	3840	DFT-s-OFDM PI/2 BPSK	1@243	23.8	0.2399	26.8	0.4786
77	30	90	656000	3840	DFT-s-OFDM QPSK	120@60	24.44	0.2780	27.44	0.5546
77	30	90	656000	3840	DFT-s-OFDM QPSK	1@1	23.82	0.2410	26.82	0.4808
77	30	90	656000	3840	DFT-s-OFDM QPSK	1@243	23.7	0.2344	26.7	0.4677
77	30	90	656000	3840	DFT-s-OFDM 16 QAM	120@60	23.41	0.2193	26.41	0.4375
77	30	90	656000	3840	DFT-s-OFDM 16 QAM	1@1	22.74	0.1879	25.74	0.3750
77	30	90	656000	3840	DFT-s-OFDM 16 QAM	1@243	22.67	0.1849	25.67	0.3690
77	30	90	662332	3934.98	DFT-s-OFDM PI/2 BPSK	120@60	24.71	0.2958	27.71	0.5902
77	30	90	662332	3934.98	DFT-s-OFDM PI/2 BPSK	1@1	23.69	0.2339	26.69	0.4667
77	30	90	662332	3934.98	DFT-s-OFDM PI/2 BPSK	1@243	24.18	0.2618	27.18	0.5224
77	30	90	662332	3934.98	DFT-s-OFDM QPSK	120@60	24.62	0.2897	27.62	0.5781
77	30	90	662332	3934.98	DFT-s-OFDM QPSK	1@1	23.66	0.2323	26.66	0.4634
77	30	90	662332	3934.98	DFT-s-OFDM QPSK	1@243	24.06	0.2547	27.06	0.5082
77	30	90	662332	3934.98	DFT-s-OFDM 16 QAM	120@60	23.61	0.2296	26.61	0.4581
77	30	90	662332	3934.98	DFT-s-OFDM 16 QAM	1@1	22.6	0.1820	25.6	0.3631
77	30	90	662332	3934.98	DFT-s-OFDM 16 QAM	1@243	23	0.1995	26	0.3981



Software Version: 23.06.1602

FR1 N77 MIMO ANT(M+M2) - SCS 15k**Transmitter Conducted Output Power and EIRP (GT - LC)=3.0dB**

NR Band	SCS	Band Width	Arfcn	Freq (MHz)	Modulation	RB	ANTM2 Power (dBm)	ANTM Power (dBm)	Conducted Power(dBm)	Conducted Power(W)	EIRP (dBm)	EIRP (W)
77	15	40	648000	3720	CP-OFDM QPSK	108@54	19.71	20.32	23.04	0.2014	26.04	0.4018
77	15	40	648000	3720	CP-OFDM QPSK	1@1	19.49	19.83	22.48	0.1770	25.48	0.3532
77	15	40	648000	3720	CP-OFDM QPSK	1@214	19.33	19.71	22.39	0.1734	25.39	0.3459
77	15	40	648000	3720	CP-OFDM 16 QAM	108@54	19.26	19.83	22.42	0.1746	25.42	0.3483
77	15	40	648000	3720	CP-OFDM 16 QAM	1@1	18.97	19.36	22.03	0.1596	25.03	0.3184
77	15	40	648000	3720	CP-OFDM 16 QAM	1@214	18.78	19.38	21.94	0.1563	24.94	0.3119
77	15	40	656000	3840	CP-OFDM QPSK	108@54	19.72	19.84	22.73	0.1875	25.73	0.3741
77	15	40	656000	3840	CP-OFDM QPSK	1@1	19.44	19.68	22.43	0.1750	25.43	0.3491
77	15	40	656000	3840	CP-OFDM QPSK	1@214	19.33	19.84	22.42	0.1746	25.42	0.3483
77	15	40	656000	3840	CP-OFDM 16 QAM	108@54	19.39	19.5	22.3	0.1698	25.30	0.3388
77	15	40	656000	3840	CP-OFDM 16 QAM	1@1	19.1	19.03	22	0.1585	25.00	0.3162
77	15	40	656000	3840	CP-OFDM 16 QAM	1@214	18.78	19.43	21.99	0.1581	24.99	0.3155
77	15	40	664000	3960	CP-OFDM QPSK	108@54	20.06	19.82	22.71	0.1866	25.71	0.3724
77	15	40	664000	3960	CP-OFDM QPSK	1@1	19.73	19.33	22.38	0.1730	25.38	0.3451
77	15	40	664000	3960	CP-OFDM QPSK	1@214	19.82	19.78	22.66	0.1845	25.66	0.3681
77	15	40	664000	3960	CP-OFDM 16 QAM	108@54	19.55	19.33	22.31	0.1702	25.31	0.3396
77	15	40	664000	3960	CP-OFDM 16 QAM	1@1	19.14	18.89	21.89	0.1545	24.89	0.3083
77	15	40	664000	3960	CP-OFDM 16 QAM	1@214	19.34	19.45	22.2	0.1660	25.20	0.3311
77	15	50	648334	3725.01	CP-OFDM QPSK	135@67	19.67	20.21	22.83	0.1919	25.83	0.3828
77	15	50	648334	3725.01	CP-OFDM QPSK	1@1	19.75	20	22.73	0.1875	25.73	0.3741
77	15	50	648334	3725.01	CP-OFDM QPSK	1@268	19.69	19.97	22.71	0.1866	25.71	0.3724
77	15	50	648334	3725.01	CP-OFDM 16 QAM	135@67	19.16	19.78	22.33	0.1710	25.33	0.3412
77	15	50	648334	3725.01	CP-OFDM 16 QAM	1@1	19.18	19.52	22.23	0.1671	25.23	0.3334
77	15	50	648334	3725.01	CP-OFDM 16 QAM	1@268	19.13	19.53	22.18	0.1652	25.18	0.3296
77	15	50	656000	3840	CP-OFDM QPSK	135@67	19.68	19.95	22.74	0.1879	25.74	0.3750
77	15	50	656000	3840	CP-OFDM QPSK	1@1	19.77	19.91	22.73	0.1875	25.73	0.3741
77	15	50	656000	3840	CP-OFDM QPSK	1@268	19.62	20.06	22.71	0.1866	25.71	0.3724
77	15	50	656000	3840	CP-OFDM 16 QAM	135@67	19.26	19.49	22.29	0.1694	25.29	0.3381
77	15	50	656000	3840	CP-OFDM 16 QAM	1@1	19.25	19.5	22.21	0.1663	25.21	0.3319
77	15	50	656000	3840	CP-OFDM 16 QAM	1@268	19.14	19.74	22.3	0.1698	25.30	0.3388
77	15	50	663666	3954.99	CP-OFDM QPSK	135@67	20.02	19.69	22.73	0.1875	25.73	0.3741
77	15	50	663666	3954.99	CP-OFDM QPSK	1@1	19.96	19.58	22.66	0.1845	25.66	0.3681
77	15	50	663666	3954.99	CP-OFDM QPSK	1@268	20.11	20.1	22.94	0.1968	25.94	0.3926
77	15	50	663666	3954.99	CP-OFDM 16 QAM	135@67	19.57	19.28	22.3	0.1698	25.30	0.3388
77	15	50	663666	3954.99	CP-OFDM 16 QAM	1@1	19.56	19.25	22.24	0.1675	25.24	0.3342
77	15	50	663666	3954.99	CP-OFDM 16 QAM	1@268	19.78	19.38	22.45	0.1758	25.45	0.3508



FR1 N77 MIMO ANT M - SCS 15k

Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
77	15	40	656000	3840.0	CP-OFDM QPSK	216@0	38.635	39.82
77	15	40	656000	3840.0	CP-OFDM 16 QAM	216@0	38.487	39.88
77	15	40	656000	3840.0	CP-OFDM 64 QAM	216@0	38.542	39.77
77	15	40	656000	3840.0	CP-OFDM 256 QAM	216@0	38.508	39.85
77	15	50	656000	3840.0	CP-OFDM QPSK	270@0	48.171	49.71
77	15	50	656000	3840.0	CP-OFDM 16 QAM	270@0	48.142	49.69
77	15	50	656000	3840.0	CP-OFDM 64 QAM	270@0	48.207	49.63
77	15	50	656000	3840.0	CP-OFDM 256 QAM	270@0	48.16	49.78