FCC RADIO TEST REPORT

FCC ID	:	**IHDT56AX2**
Equipment	:	**Mobile Cellular Phone**
Brand Name	:	**Motorola**
Model Name	:	**XT2625-11**
Applicant	:	**Motorola Mobility LLC** **222 W,Merchandise Mart Plaza, Chicago IL 60654 USA**
Manufacturer	:	**Motorola Mobility LLC** **222 W,Merchandise Mart Plaza, Chicago IL 60654 USA**
Standard	:	**FCC 47 CFR Part 2, 22(H), 24(E), 27, Part 90(S)**

The product was received on Jul. 01, 2026 and testing was performed from Jul. 02, 2026 to Aug. 30, 2026. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this variant report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory
No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)

Table of Contents

History of this test report **3**
Summary of Test Result **4**
1 General Description **5**
1.1 Product Feature of Equipment Under Test 5
1.2 Modification of EUT 6
1.3 Testing Location 6
1.4 Applicable Standards 6
2 Test Configuration of Equipment Under Test **7**
2.1 Test Mode 7
2.2 Connection Diagram of Test System 8
2.3 Support Unit used in test configuration and system 8
2.4 Measurement Results Explanation Example 8
2.5 Frequency List of Low/Middle/High Channels 9
3 Conducted Test Items **12**
3.1 Measuring Instruments 12
3.2 Conducted Output Power and ERP/EIRP 13
3.3 Peak-to-Average Ratio 14
3.4 Occupied Bandwidth 15
3.5 Conducted Band Edge 16
3.6 Emission Mask 17
3.7 Conducted Spurious Emission 18
3.8 Frequency Stability 19
4 Radiated Test Items **20**
4.1 Measuring Instruments 20
4.2 Radiated Spurious Emission Measurement 22
5 List of Measuring Equipment **23**
6 Measurement Uncertainty **25**
Appendix A. Test Results of Conducted Test
Appendix B. Test Results of Radiated Test

History of this test report

Report No.	Version	Description	Issue Date
FG610603-18B	01	Initial issue of report	Sep. 11, 2026
FG610603-18B	02	Revise section 2.1. about ENDC combination. This report is an update version, replacing the report issued on Sep. 11, 2026.	Sep. 16, 2026

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Pass	-
	§27.50 (k)(3)	Equivalent Isotropic Radiated Power (n77) (n78)	Pass	
3.3	§27.50 (j)(4)	Peak-to-Average Ratio	Pass	-
3.4	§2.1049	Occupied Bandwidth	Pass	-
3.5	§2.1051 §27.53 (n)(2)	Conducted Band Edge Measurement (n77) (n78)	Pass	-
3.7	§2.1051 §27.53 (n)(2)	Conducted Spurious Emission (n77) (n78)	Pass	-
3.8	§27.54	Frequency Stability Temperature & Voltage	Pass	-
4.2	§2.1053 §27.53 (m)(4)	Radiated Spurious Emission (n41)	Pass	-
	§2.1053 §27.53 (n)(2)	Radiated Spurious Emission (n77) (n78)		

Note: This is a variant report which can be referred Product Equality Declaration. According to the change, only 27Q of n77/n78 full test, the other test cases were performed on original report which can be referred to Sporton Report Number FG610618-02J.

Conformity Assessment Condition:

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

Disclaimer:

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

Reviewed by: Keven Cheng

Report Producer: Freda Wu

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
General Specs	GSM/WCDMA/LTE/5G NR, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n/ac, FM Receiver, NFC, and GNSS.
Antenna Type	WWAN: Loop Antenna for Ant 0/1/3/5 IFA Antenna for Ant 2\8\7\4\6 WLAN: IFA Antenna Bluetooth: IFA Antenna GNSS: IFA Antenna NFC: Coil Antenna FM: External Earphone Antenna

Support band and evaluated information	
Supported band	n2, n5, n7, n26, n38, n41,n66, n77, n78
Evaluated and Tested band	n2, n5, n38, n41, n66, n77, n78
Band covered information	RSE frequency band range covers another band when the power is worse as follows: ■n77 cover n78 (Part 27Q)

FDD/TDD band Power Class					
	SISO PC3	**SISO PC2**	**MIMO PC3**	**MIMO PC2**	
n2	V				
n5	V				
n38	V				
n41	V				
n66	V				
n77	V				
n78	V				

Max Antenna Gain information(dBi)								
Band	**Ant 0**	**Ant 1**	**Ant 2**	**Ant 4**	**Ant 5**	**Ant 8**	**Main Ant. #**	**SRS Ant. #**
n2				**-2.0**			**4**	
n5	**-3.3**						**0**	
n38				**-2.5**			**4**	
n41				**-2.0**			**4**	
n66	**-1.6**						**0**	
n77 (Part27Q 3450-3550MHz)		**-2.7**	**-6.4**		**-3.4**	**-2.0**	**5**	**Ant2/8/1**
n78 (Part27Q 3450-3550MHz)		**-2.7**	**-6.4**		**-3.4**	**-2.0**	**5**	**Ant2/8/1**

Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

Specification of Accessory				
AC Adapter 1(US)	**Brand Name**	Motorola(Aohai)	**Model Name**	MC-101
AC Adapter 2(US)	**Brand Name**	Motorola(Chenyang)	**Model Name**	MC-101
Battery	**Brand Name**	Motorola (SUNWODA)	**Model Name**	SS52
USB Cable 1	**Brand Name**	Motorola (naiyi)	**Model Name**	1.1.0502
USB Cable 2	**Brand Name**	Motorola (saibao)	**Model Name**	SC18E52847
USB Cable 3	**Brand Name**	Motorola (juwei)	**Model Name**	SC18D38574

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. Wensan Laboratory	
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855	
Test Site No.	**Sporton Site No.**	
	TH05-HY	03CH16-HY
Test Engineer	Kelvin Lu	Jerry Lan、Gary Guo、Steven Wu
Temperature (℃)	21.3~23.5	19.1~22.3
Relative Humidity (%)	51.0~56.0	62.5~68.3

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW3786

1.4 Applicable Standards

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

- ANSI C63.26-2015
- FCC 47 CFR Part 2, 22(H), 24(E), 27, Part 90(S)
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 414788 D01 Radiated Test Site v01r01.

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.

2 Test Configuration of Equipment Under Test

2.1 Test Mode

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

For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape) and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and only the worst case emissions were reported in this report..

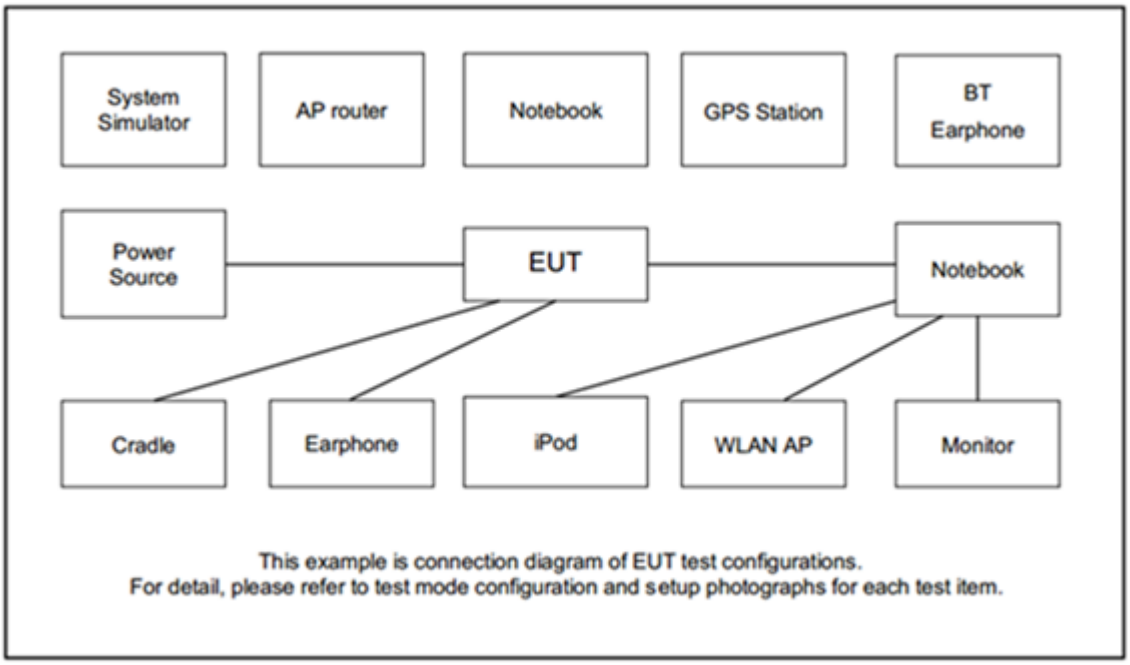
Modulation Type	Modulation	Modulation Type	Modulation
A	DFT-s-OFDM PI/2 BPSK	N/A	N/A
B	DFT-s-OFDM QPSK	F	CP-OFDM QPSK
C	DFT-s-OFDM 16QAM	G	CP-OFDM 16QAM
D	DFT-s-OFDM 64QAM	H	CP-OFDM 64QAM
E	DFT-s-OFDM 256QAM	I	CP-OFDM 256QAM

Test Item	Modulation Type	Bandwidth	RB Size	Channel
Conducted Power EIRP	A, B, C, D, E	All	1, Half, Full	L, M, H
PAR	A, B, C, D, E	20 MHz	Outer_Full	M
Bandwidth	A, B, C	All	Outer_Full	M
CBE	A, B	Minimum BW	Outer_1RB	L, H
		All	Outer_Full	
CSE	B	10 MHz	Inner_1RB	L, M, H
Frequency Stability	A	10 MHz	Outer_Full	M
RSE	A	100 MHz	Inner_1RB	M

Remark:

1. Evaluated all the transmitter signal and reporting worst-case configuration among all modulation types.
2. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst-case emissions are reported.
3. 5G NR n78 radiated spurious emission test were covered by 5G NR n77, respectively as 5G NR n77 have same tune up but EIRP Power result were higher than 5G NR n78.
4. For 5G NR test combination are DC_4A_n38A, DC_4A_n41A, DC_12A_n38A, DC_13A_n2A, , DC_13A_n66A, DC_5A_n2A, DC_5A_n66A, DC_66A_n2A, DC_66A_n5A, DC_12A_n77A, DC_13A_n77A, DC_26A_n77A, DC_2A_n77A, DC_5A_n77A, DC_66A_n77A, DC_41A_n77A, DC_12A_n78A, DC_2A_n78A, DC_4A_n78A, DC_5A_n78A, DC_66A_n78A, DC_7A_n78A, DC_38A_n78A, DC_41A_n78A, DC_26A_n78A.

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Base Station	Anritsu	MT8000A	N/A	N/A	N/A
2.	Power supply	GW Instek	GPE-2323	N/A	N/A	N/A

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss 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

Offset = RF cable loss

Following shows an offset computation example with cable loss 7.8 dB

Example :

Offset(dB) = RF cable loss(dB)

= 7.8 (dB)

2.5 Frequency List of Low/Middle/High Channels

5G NR n41 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	509202	518598	528000
	Frequency	2546.01	2592.99	2640
90	Channel	508200	518598	528996
	Frequency	2541	2592.99	2644.98
80	Channel	507204	518598	529998
	Frequency	2536.02	2592.99	2649.99
70	Channel	506202	518598	531000
	Frequency	2531.01	2592.99	2655
60	Channel	505200	518598	531996
	Frequency	2526	2592.99	2659.98
50	Channel	504204	518598	532998
	Frequency	2521.02	2592.99	2664.99
45	Channel	503700	518598	533496
	Frequency	2518.5	2592.99	2677.48
40	Channel	503202	518598	534000
	Frequency	2516.01	2592.99	2670
35	Channel	502704	518598	534498
	Frequency	2513.52	2592.99	2672.49
30	Channel	502200	518598	534996
	Frequency	2511	2592.99	2674.98
20	Channel	501204	518598	535998
	Frequency	2506.02	2592.99	2679.99
15	Channel	500700	518598	536496
	Frequency	2503.5	2592.99	2682.48
10	Channel	500202	518598	537000
	Frequency	2501.01	2592.99	2685

5G NR Band n77 (Part27Q) Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
100	Channel	-	633334	-
	Frequency	-	3500.01	-
90	Channel	633000	633334	633666
	Frequency	3495	3500.01	3504.99
80	Channel	632668	633334	634000
	Frequency	3490.02	3500.01	3510
70	Channel	632334	633334	634332
	Frequency	3485.01	3500.01	3514.98
60	Channel	632000	633334	634666
	Frequency	3480	3500.01	3519.99
50	Channel	631668	633334	635000
	Frequency	3475.02	3500.01	3525
40	Channel	631334	633334	635332
	Frequency	3470.01	3500.01	3529.98
30	Channel	631000	633334	635666
	Frequency	3465	3500.01	3534.99
25	Channel	630834	633334	635832
	Frequency	3462.51	3500.01	3537.48
20	Channel	630668	633334	636000
	Frequency	3460.02	3500.01	3540
15	Channel	630500	633334	636166
	Frequency	3457.5	3500.01	3542.49
10	Channel	630334	633334	636332
	Frequency	3455.01	3500.01	3544.98

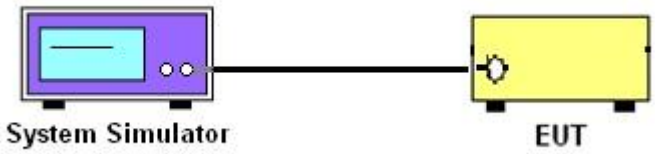
5G NR n78 (Part27Q) Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
100	Channel	-	633334	-
	Frequency	-	3500.01	-
90	Channel	633000	633334	633666
	Frequency	3495	3500.01	3504.99
80	Channel	632668	633334	634000
	Frequency	3490.02	3500.01	3510
70	Channel	632334	633334	634332
	Frequency	3485.01	3500.01	3514.98
60	Channel	632000	633334	634666
	Frequency	3480	3500.01	3519.99
50	Channel	631668	633334	635000
	Frequency	3475.02	3500.01	3525
40	Channel	631334	633334	635332
	Frequency	3470.01	3500.01	3529.98
30	Channel	631000	633334	635666
	Frequency	3465	3500.01	3534.99
25	Channel	630834	633334	635832
	Frequency	3462.51	3500.01	3537.48
20	Channel	630668	633334	636000
	Frequency	3460.02	3500.01	3540
15	Channel	630500	633334	636166
	Frequency	3457.5	3500.01	3542.49
10	Channel	630334	633334	636332
	Frequency	3455.01	3500.01	3544.98

3 Conducted Test Items

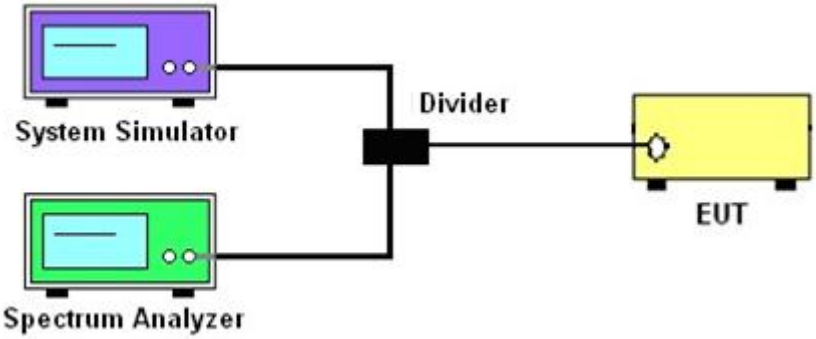
3.1 Measuring Instruments

See list of measuring instruments of this test report.

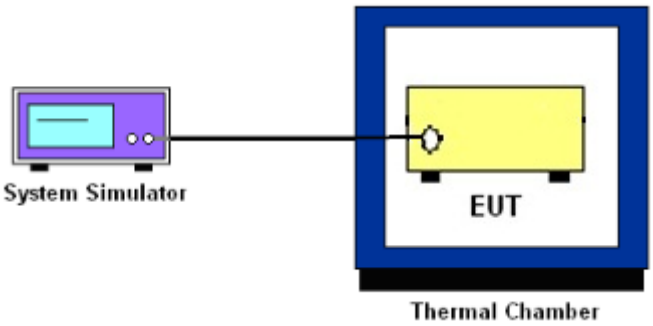
3.1.1 Conducted Output Power



3.1.2 Peak-to-Average Ratio, Occupied Bandwidth ,Conducted Band-Edge, Emission Mask and Conducted Spurious Emission



3.1.3 Frequency Stability



3.1.4 Test Result of Conducted Test

Please refer to Appendix A.

3.2 Conducted Output Power and ERP/EIRP

3.2.1 Description of the Conducted Output Power Measurement and ERP/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 n66, 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

3.2.2 Test Procedures

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

3.3 Peak-to-Average Ratio

3.3.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. 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.

3.3.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.6

1. The EUT was connected to spectrum and system simulator via a power divider.
2. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
3. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
4. Record the deviation as Peak to Average Ratio.

3.4 Occupied Bandwidth

3.4.1 Description of Occupied Bandwidth Measurement

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

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

3.4.2 Test Procedures

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

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

3.5 Conducted Band Edge

3.5.1 Description of Conducted Band Edge Measurement

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.

3.5.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured.
3. Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
5. Set spectrum analyzer with RMS detector.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. Checked that all the results comply with the emission limit line.

3.6 Emission Mask

3.6.1 Description of Emissions Mask Measurement

For LTE Band 26

Equipment used in this licensed to EA or non-EA systems shall comply with the emission mask provisions of FCC Part 90.691

(a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

3.6.2 Test Procedures

For LTE Band 26

1. The EUT was connected to spectrum analyzer and base station via power divider.
2. The emissions mask of low and high channels for the highest RF powers were measured.
3. Set RBW and VBW 3 times of RBW to make the measurement with the spectrum analyzer's, and according to KDB 971168 D02 Misc Rev Approve License Devices v02r01 standards, set RBW = 300 Hz to make offsets less than 37.5 kHz from a channel edge , RBW = 100 kHz to make offsets greater than 37.5 kHz, that is allowed.
4. The test results were shown below plots with a correction offset factor including cable loss, insertion loss of power divider.

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.

For 5G NR n7, n38, n41

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 55 + 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 10^{th} harmonic.

3.7.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The conducted spurious emission for the whole frequency range was taken.
4. Make the measurement with the spectrum analyzer's RBW = 100 kHz if the authorized frequency band/block is at or below 1 GHz and 1 MHz if the authorized frequency band/block is above 1 GH, VBW = 3 * RBW.
5. Set spectrum analyzer with RMS detector.
6. Taking the record of maximum spurious emission.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.8 Frequency Stability

3.8.1 Description of Frequency Stability Measurement

24.235 & 27.54

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

3.8.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.8.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was placed in a temperature chamber at 20±5° C and connected with the system simulator.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

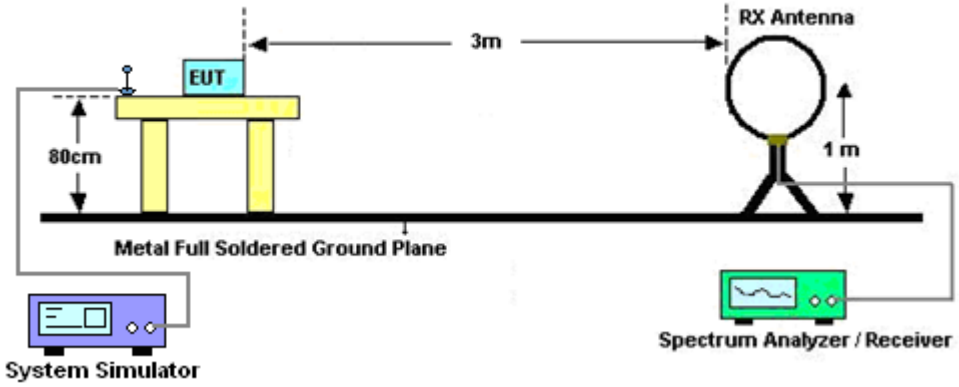
4 Radiated Test Items

4.1 Measuring Instruments

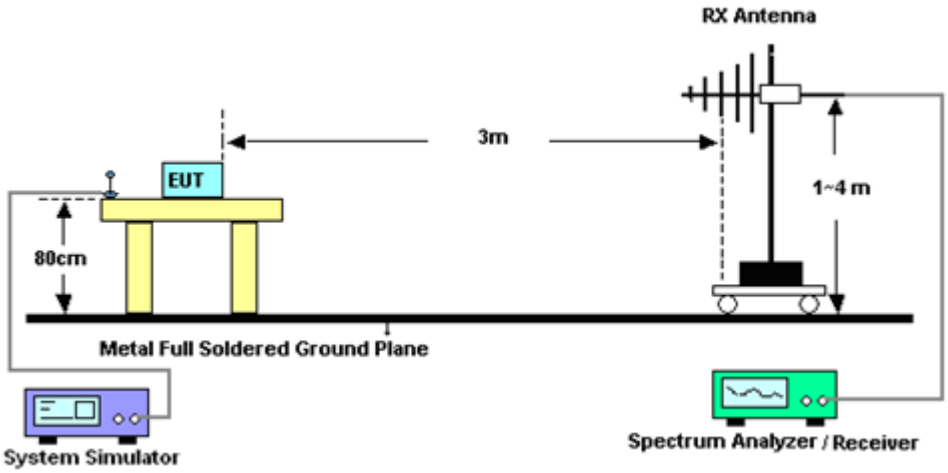
See list of measuring instruments of this test report.

4.1.1 Test Setup

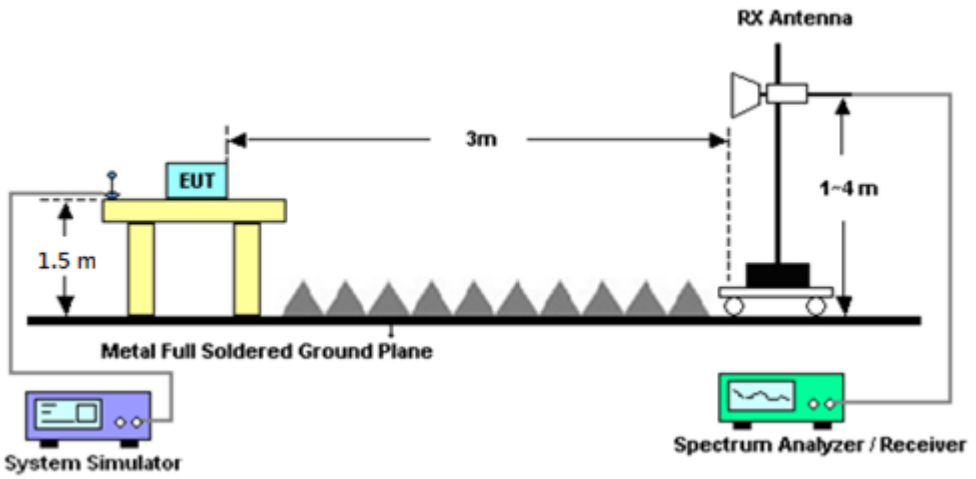
For radiated test below 30MHz



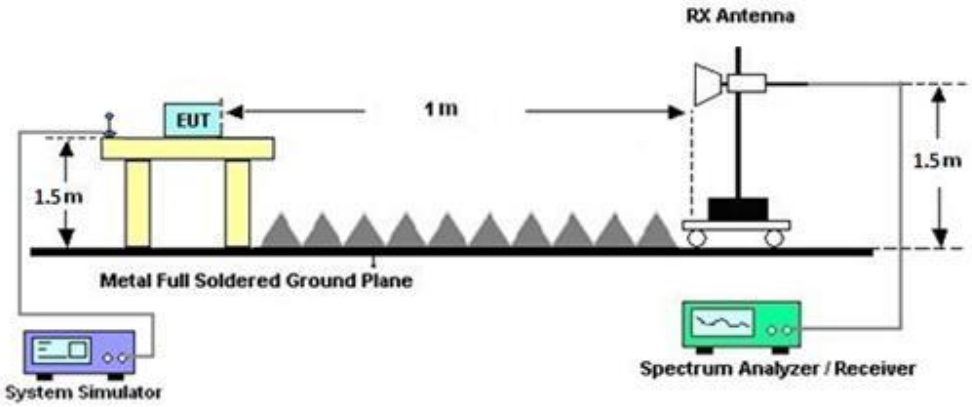
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



4.1.2 Test Result of Radiated Test

Please refer to Appendix B.

Note:

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

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

4.2 Radiated Spurious Emission Measurement

4.2.1 Description of Radiated Spurious Emission Measurement

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB

For 5G NR n7, n38, n41

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 55 + 10 log (P) dB.

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

4.2.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI C63.26-2015 section 5.5.4 Radiated measurement using the field strength method.

1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. To convert spectrum reading E(dBuV/m) to EIRP(dBm)

   EIRP(dBm) = Level (dBuV/m) + 20log(d) -104.77,

   where d is the distance at which filed strength limit is specified in the rules
7. Field Strength Level (dBm) = Spectrum Reading (dBm) + Antenna Factor + Cable Loss + Read Level - Preamp Factor.
8. ERP (dBm) = EIRP (dBm) - 2.15
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

5 List of Measuring Equipment

Instrument	nufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2E	101108	9kHz~30MHz	Dec. 11, 2025	Jul. 03, 2026~ Aug. 30, 2026	Dec. 10, 2026	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	1230	18GHz-40GHz	Nov. 05, 2026	Jul. 03, 2026~ Aug. 30, 2026	Nov. 04, 2026	Radiation (03CH16-HY)
Spectrum Analyzer	Keysight	N9010B	MY60241055	10Hz~44GHz	Nov. 18, 2025	Jul. 03, 2026~ Aug. 30, 2026	Nov. 17, 2026	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY57290111	3Hz~26.5GHz	Nov. 26, 2025	Jul. 03, 2026~ Aug. 30, 2026	Nov. 25, 2026	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01 N-06	47020 & 06	30MHz to 1GHz	Oct. 04, 2025	Jul. 03, 2026~ Aug. 30, 2026	Oct. 03, 2026	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1522	1GHz~18GHz	Mar. 26, 2026	Jul. 03, 2026~ Aug. 30, 2026	Mar. 25, 2027	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1GHz	Jun. 29, 2026	Jul. 03, 2026~ Aug. 30, 2026	Jun. 28, 2027	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz~26.5GHz	Sep. 12, 2025	Jul. 03, 2026~ Aug. 30, 2026	Sep. 11, 2026	Radiation (03CH16-HY)
Preamplifier	EMEC	EM1G18G	060812	1GHz~18GHz	Dec. 22, 2025	Jul. 03, 2026~ Aug. 30, 2026	Dec. 21, 2026	Radiation (03CH16-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun 08, 2026	Jul. 03, 2026~ Aug. 30, 2026	Jun 07, 2027	Radiation (03CH16-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40SS	SN17	1.53GHz Low Pass Filter	Jan. 13, 2026	Jul. 03, 2026~ Aug. 30, 2026	Jan. 12, 2027	Radiation (03CH16-HY)
Filter	Wainwright	WHKX12-2700-3000-18000-60ST	SN3	3GHz High Pass Filter	Jun. 25, 2026	Jul. 03, 2026~ Aug. 30, 2026	Jun. 24, 2027	Radiation (03CH16-HY)
Filter	Wainwright	WHKX8-5872.5-6750-18000-40ST	SN27	6.75GHz High Pass Filter	Dec. 22, 2025	Jul. 03, 2026~ Aug. 30, 2026	Dec. 21, 2026	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/2	9KHz ~ 40GHz	May 13, 2026	Jul. 03, 2026~ Aug. 30, 2026	May 12, 2027	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102/SUCOFLEX 104	EC-A5-300-5757,805935/4,802434/4	30MHz~18GHz	Aug. 06, 2025	Jul. 03, 2026~ Aug. 30, 2026	Aug. 05, 2026	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102/SUCOFLEX 104	EC-A5-300-5757,805935/4,802434/4	30MHz~18GHz	Aug. 05, 2026	Jul. 03, 2026~ Aug. 30, 2026	Aug. 04, 2027	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804011/2,804012/2	18-40GHz	Dec. 18, 2025	Jul. 03, 2026~ Aug. 30, 2026	Dec. 17, 2026	Radiation (03CH16-HY)
Software	Audix	E3 230621 V9	RK-002393	N/A	N/A	Jul. 03, 2026~ Aug. 30, 2026	N/A	Radiation (03CH16-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Jul. 03, 2026~ Aug. 30, 2026	N/A	Radiation (03CH16-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jul. 03, 2026~ Aug. 30, 2026	N/A	Radiation (03CH16-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jul. 03, 2026~ Aug. 30, 2026	N/A	Radiation (03CH16-HY)

Instrument	nufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
DC Power Supply	GW Instek	GPE2323	GET910896	0V~64V ;0A~6A	Dec. 15, 2025	Jul. 02, 2026 ~ Jul. 03, 2026	Dec. 14, 2026	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101544	10Hz~44GHz	Aug. 18, 2025	Jul. 02, 2026 ~ Jul. 03, 2026	Aug. 17, 2026	Conducted (TH05-HY)
Temperature Chamber	ESPEC	LHU-113	1012005860	-20℃~85℃	Dec. 17, 2025	Jul. 02, 2026 ~ Jul. 03, 2026	Dec. 16, 2026	Conducted (TH05-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	NA	Nov. 04, 2025	Jul. 02, 2026 ~ Jul. 03, 2026	Nov. 03, 2026	Conducted (TH05-HY)
Base Station (Measure)	Anritsu	MT8821C	6261849015	LTE	Jan. 03, 2026	Jul. 02, 2026 ~ Jul. 03, 2026	Jan. 02, 2027	Conducted (TH05-HY)
Base Station (Measure)	Anritsu	MT8000A	6261940327	FR1	Jan. 02, 2026	Jul. 02, 2026 ~ Jul. 03, 2026	Jan. 01, 2027	Conducted (TH05-HY)
Power divider	MVE	MVE8283	F201918	9KHz~40GHz	Dec. 31, 2025	Jul. 02, 2026 ~ Jul. 03, 2026	Dec. 30, 2026	Conducted (TH05-HY)
RF Cable	MVE	MCBL-LL403P.50	E80002C	9KHz~40GHz	Aug. 01, 2025	Jul. 02, 2026 ~ Jul. 03, 2026	Jul. 31, 2026	Conducted (TH05-HY)
Software 1	Sporton	FCC 5GNR_FSV3044_20231106	N/A	Conducted Test Item	N/A	Jul. 02, 2026 ~ Jul. 03, 2026	N/A	Conducted (TH05-HY)

6 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**6.50 dB**

Uncertainty of Radiated Emission Measurement (1 GHz ~ 6 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.60 dB**

Uncertainty of Radiated Emission Measurement (6 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.60 dB**

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.20 dB**

Appendix A. Test Results of Conducted Test

NR n77 Transmitter Conducted Output Power And EIRP

NR Band	SCS(kHz)	BW(MHz)	UL Arfcn	UL Frequency(MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
77	30	10	630334	3455.01	DFT-s-OFDM PI/2 BPSK	1@1	22.70	19.30	0.0851
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@1	22.25	18.85	0.0767
77	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@1	21.61	18.21	0.0662
77	30	10	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.37	19.97	0.0993
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.29	19.89	0.0975
77	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.23	18.83	0.0764
77	30	10	636332	3544.98	DFT-s-OFDM PI/2 BPSK	1@1	23.50	20.10	0.1023
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@1	23.66	20.26	0.1062
77	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	1@1	22.49	19.09	0.0811
77	30	15	630500	3457.5	DFT-s-OFDM PI/2 BPSK	1@1	22.66	19.26	0.0843
77	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@1	22.68	19.28	0.0847
77	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@1	21.63	18.23	0.0665
77	30	15	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.42	20.02	0.1005
77	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.39	19.99	0.0998
77	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.41	19.01	0.0796
77	30	15	636166	3542.49	DFT-s-OFDM PI/2 BPSK	1@1	23.65	20.25	0.1059
77	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@1	23.64	20.24	0.1057
77	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@1	22.58	19.18	0.0828
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@1	22.69	19.29	0.0849
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	22.71	19.31	0.0853
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	21.75	18.35	0.0684
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.40	20.00	0.1000
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.46	20.06	0.1014
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.32	18.92	0.0780
77	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@1	23.69	20.29	0.1069
77	30	20	636000	3540	DFT-s-OFDM QPSK	1@1	23.67	20.27	0.1064
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	22.68	19.28	0.0847
77	30	25	630834	3462.51	DFT-s-OFDM PI/2 BPSK	1@1	22.76	19.36	0.0863
77	30	25	630834	3462.51	DFT-s-OFDM QPSK	1@1	22.74	19.34	0.0859
77	30	25	630834	3462.51	DFT-s-OFDM 16 QAM	1@1	21.71	18.31	0.0678
77	30	25	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.55	20.15	0.1035
77	30	25	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.53	20.13	0.1030
77	30	25	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.56	19.16	0.0824
77	30	25	635832	3537.48	DFT-s-OFDM PI/2 BPSK	1@1	23.83	20.43	0.1104
77	30	25	635832	3537.48	DFT-s-OFDM QPSK	1@1	23.79	20.39	0.1094
77	30	25	635832	3537.48	DFT-s-OFDM 16 QAM	1@1	22.96	19.56	0.0904
77	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	1@1	22.87	19.47	0.0885
77	30	30	631000	3465	DFT-s-OFDM QPSK	1@1	22.79	19.39	0.0869
77	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@1	21.87	18.47	0.0703
77	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.66	20.26	0.1062
77	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.65	20.25	0.1059
77	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.67	19.27	0.0845
77	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	1@1	23.85	20.45	0.1109
77	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@1	23.83	20.43	0.1104
77	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@1	22.82	19.42	0.0875
77	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@1	22.83	19.43	0.0877
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	22.81	19.41	0.0873
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	21.79	18.39	0.0690
77	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.58	20.18	0.1042
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.62	20.22	0.1052
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.69	19.29	0.0849
77	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	1@1	23.62	20.22	0.1052
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@1	23.68	20.28	0.1067
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@1	22.77	19.37	0.0865
77	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	1@1	22.83	19.43	0.0877
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@1	22.84	19.44	0.0879
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@1	21.89	18.49	0.0706
77	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.56	20.16	0.1038
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.58	20.18	0.1042
77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.60	19.20	0.0832
77	30	50	635000	3525	DFT-s-OFDM PI/2 BPSK	1@1	23.50	20.10	0.1023

77	30	50	635000	3525	DFT-s-OFDM QPSK	1@1	23.51	20.11	0.1026
77	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@1	22.50	19.10	0.0813
77	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	1@1	22.87	19.47	0.0885
77	30	60	632000	3480	DFT-s-OFDM QPSK	1@1	22.83	19.43	0.0877
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@1	21.84	18.44	0.0698
77	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.40	20.00	0.1000
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.33	19.93	0.0984
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.26	18.86	0.0769
77	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	1@1	23.66	20.26	0.1062
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@1	23.60	20.20	0.1047
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@1	22.52	19.12	0.0817
77	30	70	632334	3485.01	DFT-s-OFDM PI/2 BPSK	1@1	23.07	19.67	0.0927
77	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@1	23.06	19.66	0.0925
77	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@1	22.05	18.65	0.0733
77	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.38	19.98	0.0995
77	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.33	19.93	0.0984
77	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.24	18.84	0.0766
77	30	70	634332	3514.98	DFT-s-OFDM PI/2 BPSK	1@1	23.92	20.52	0.1127
77	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@1	23.86	20.46	0.1112
77	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@1	22.76	19.36	0.0863
77	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	1@1	23.15	19.75	0.0944
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@1	23.13	19.73	0.0940
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@1	22.09	18.69	0.0740
77	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.21	19.81	0.0957
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.22	19.82	0.0959
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.28	18.88	0.0773
77	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	1@1	23.67	20.27	0.1064
77	30	80	634000	3510	DFT-s-OFDM QPSK	1@1	23.61	20.21	0.1050
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@1	22.70	19.30	0.0851
77	30	90	633000	3495	DFT-s-OFDM PI/2 BPSK	1@1	23.13	19.73	0.0940
77	30	90	633000	3495	DFT-s-OFDM QPSK	1@1	23.11	19.71	0.0935
77	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@1	22.12	18.72	0.0745
77	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.11	19.71	0.0935
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.11	19.71	0.0935
77	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.00	18.60	0.0724
77	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	1@1	23.25	19.85	0.0966
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@1	23.24	19.84	0.0964
77	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@1	22.15	18.75	0.0750
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.17	19.77	0.0948
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@0	22.50	19.10	0.0813
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@271	23.34	19.94	0.0986
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	2@0	22.64	19.24	0.0839
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	23.64	20.24	0.1057
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	2@271	22.83	19.43	0.0877
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	270@0	23.09	19.69	0.0931
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.11	19.71	0.0935
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	22.05	18.65	0.0733
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@271	23.31	19.91	0.0979
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	2@0	22.13	18.73	0.0746
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@67	23.59	20.19	0.1045
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	2@271	22.39	18.99	0.0793
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	270@0	22.58	19.18	0.0828
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.15	18.75	0.0750
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	20.79	17.39	0.0548
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	18.58	15.18	0.0330
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	270@0	21.56	18.16	0.0655
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	270@0	21.02	17.62	0.0578
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	270@0	18.98	15.58	0.0361
77	30	100	633334	3500.01	CP-OFDM QPSK	1@1	21.67	18.27	0.0671
77	30	100	633334	3500.01	CP-OFDM QPSK	273@0	20.55	17.15	0.0519
77	30	100	633334	3500.01	CP-OFDM 16 QAM	1@1	21.18	17.78	0.0600

NR n78 Transmitter Conducted Output Power And EIRP

NR Band	SCS(kHz)	BW(MHz)	UL Arfcn	UL Frequency(MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
78	30	10	630334	3455.01	DFT-s-OFDM PI/2 BPSK	1@1	23.22	19.82	0.0959
78	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@1	22.31	18.91	0.0778
78	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@1	21.44	18.04	0.0637
78	30	10	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.23	19.83	0.0962
78	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.21	19.81	0.0957
78	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.23	18.83	0.0764
78	30	10	636332	3544.98	DFT-s-OFDM PI/2 BPSK	1@1	23.52	20.12	0.1028
78	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@1	23.57	20.17	0.1040
78	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	1@1	22.36	18.96	0.0787
78	30	15	630500	3457.5	DFT-s-OFDM PI/2 BPSK	1@1	22.42	19.02	0.0798
78	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@1	22.43	19.03	0.0800
78	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@1	21.41	18.01	0.0632
78	30	15	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.28	19.88	0.0973
78	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.28	19.88	0.0973
78	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.16	18.76	0.0752
78	30	15	636166	3542.49	DFT-s-OFDM PI/2 BPSK	1@1	23.54	20.14	0.1033
78	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@1	23.54	20.14	0.1033
78	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@1	22.51	19.11	0.0815
78	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@1	22.46	19.06	0.0805
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	22.50	19.10	0.0813
78	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	21.48	18.08	0.0643
78	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.34	19.94	0.0986
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.40	20.00	0.1000
78	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.30	18.90	0.0776
78	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@1	23.63	20.23	0.1054
78	30	20	636000	3540	DFT-s-OFDM QPSK	1@1	23.56	20.16	0.1038
78	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	22.74	19.34	0.0859
78	30	25	630834	3462.51	DFT-s-OFDM PI/2 BPSK	1@1	22.50	19.10	0.0813
78	30	25	630834	3462.51	DFT-s-OFDM QPSK	1@1	22.52	19.12	0.0817
78	30	25	630834	3462.51	DFT-s-OFDM 16 QAM	1@1	21.52	18.12	0.0649
78	30	25	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.40	20.00	0.1000
78	30	25	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.40	20.00	0.1000
78	30	25	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.44	19.04	0.0802
78	30	25	635832	3537.48	DFT-s-OFDM PI/2 BPSK	1@1	23.57	20.17	0.1040
78	30	25	635832	3537.48	DFT-s-OFDM QPSK	1@1	23.61	20.21	0.1050
78	30	25	635832	3537.48	DFT-s-OFDM 16 QAM	1@1	22.52	19.12	0.0817
78	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	1@1	22.64	19.24	0.0839
78	30	30	631000	3465	DFT-s-OFDM QPSK	1@1	22.65	19.25	0.0841
78	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@1	21.55	18.15	0.0653
78	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.54	20.14	0.1033
78	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.49	20.09	0.1021
78	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.42	19.02	0.0798
78	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	1@1	23.59	20.19	0.1045
78	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@1	23.60	20.20	0.1047
78	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@1	22.53	19.13	0.0818
78	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@1	22.67	19.27	0.0845
78	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	22.62	19.22	0.0836
78	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	21.59	18.19	0.0659
78	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.43	20.03	0.1007
78	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.46	20.06	0.1014
78	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.39	18.99	0.0793
78	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	1@1	23.41	20.01	0.1002
78	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@1	23.36	19.96	0.0991
78	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@1	22.37	18.97	0.0789
78	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	1@1	22.68	19.28	0.0847
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@1	22.65	19.25	0.0841
78	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@1	21.65	18.25	0.0668
78	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.40	20.00	0.1000
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.43	20.03	0.1007
78	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.44	19.04	0.0802
78	30	50	635000	3525	DFT-s-OFDM PI/2 BPSK	1@1	23.39	19.99	0.0998

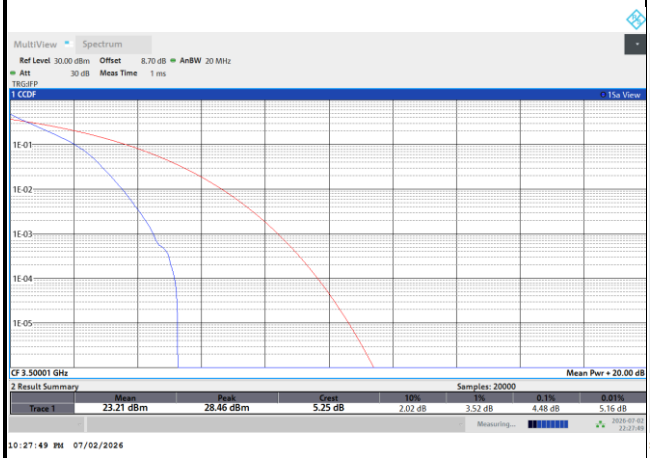
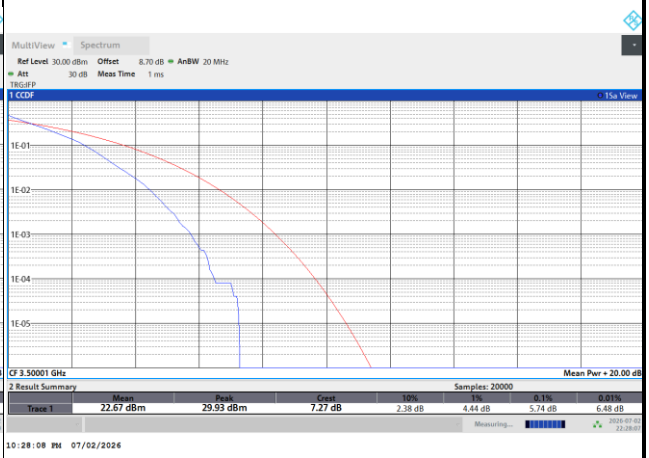
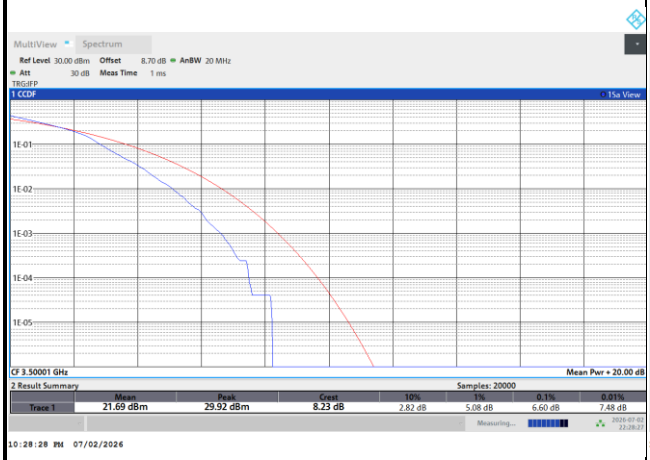
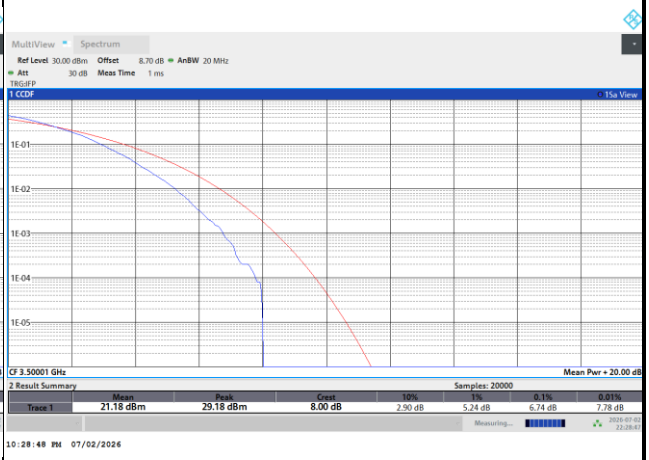
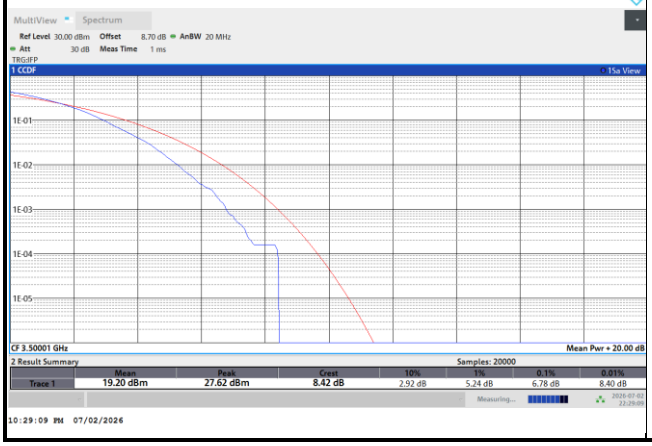
78	30	50	635000	3525	DFT-s-OFDM QPSK	1@1	23.29	19.89	0.0975
78	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@1	22.31	18.91	0.0778
78	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	1@1	22.59	19.19	0.0830
78	30	60	632000	3480	DFT-s-OFDM QPSK	1@1	22.68	19.28	0.0847
78	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@1	21.65	18.25	0.0668
78	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.17	19.77	0.0948
78	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.22	19.82	0.0959
78	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.16	18.76	0.0752
78	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	1@1	23.50	20.10	0.1023
78	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@1	23.47	20.07	0.1016
78	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@1	22.53	19.13	0.0818
78	30	70	632334	3485.01	DFT-s-OFDM PI/2 BPSK	1@1	22.79	19.39	0.0869
78	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@1	22.83	19.43	0.0877
78	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@1	21.81	18.41	0.0693
78	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.28	19.88	0.0973
78	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.24	19.84	0.0964
78	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.22	18.82	0.0762
78	30	70	634332	3514.98	DFT-s-OFDM PI/2 BPSK	1@1	23.75	20.35	0.1084
78	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@1	23.79	20.39	0.1094
78	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@1	22.85	19.45	0.0881
78	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	1@1	22.91	19.51	0.0893
78	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@1	22.92	19.52	0.0895
78	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@1	21.90	18.50	0.0708
78	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.02	19.62	0.0916
78	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.06	19.66	0.0925
78	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.04	18.64	0.0731
78	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	1@1	23.50	20.10	0.1023
78	30	80	634000	3510	DFT-s-OFDM QPSK	1@1	23.52	20.12	0.1028
78	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@1	22.50	19.10	0.0813
78	30	90	633000	3495	DFT-s-OFDM PI/2 BPSK	1@1	22.95	19.55	0.0902
78	30	90	633000	3495	DFT-s-OFDM QPSK	1@1	22.91	19.51	0.0893
78	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@1	21.92	18.52	0.0711
78	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	22.86	19.46	0.0883
78	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.93	19.53	0.0897
78	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	21.94	18.54	0.0714
78	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	1@1	23.17	19.77	0.0948
78	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@1	23.06	19.66	0.0925
78	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@1	22.02	18.62	0.0728
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	22.90	19.50	0.0891
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@0	22.28	18.88	0.0773
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@271	23.33	19.93	0.0984
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	2@0	22.40	19.00	0.0794
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	23.53	20.13	0.1030
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	2@271	22.86	19.46	0.0883
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	270@0	22.96	19.56	0.0904
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.88	19.48	0.0887
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	21.86	18.46	0.0701
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@271	23.30	19.90	0.0977
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	2@0	21.91	18.51	0.0710
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@67	23.50	20.10	0.1023
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	2@271	22.41	19.01	0.0796
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	270@0	22.46	19.06	0.0805
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.00	18.60	0.0724
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	20.61	17.21	0.0526
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	18.36	14.96	0.0313
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	270@0	21.47	18.07	0.0641
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	270@0	20.89	17.49	0.0561
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	270@0	18.91	15.51	0.0356
78	30	100	633334	3500.01	CP-OFDM QPSK	1@1	21.37	17.97	0.0627
78	30	100	633334	3500.01	CP-OFDM 16 QAM	1@1	21.08	17.68	0.0586
78	30	100	633334	3500.01	CP-OFDM 64 QAM	1@1	19.34	15.94	0.0393

FR1 n77_Part27Q

<SISO Mode>

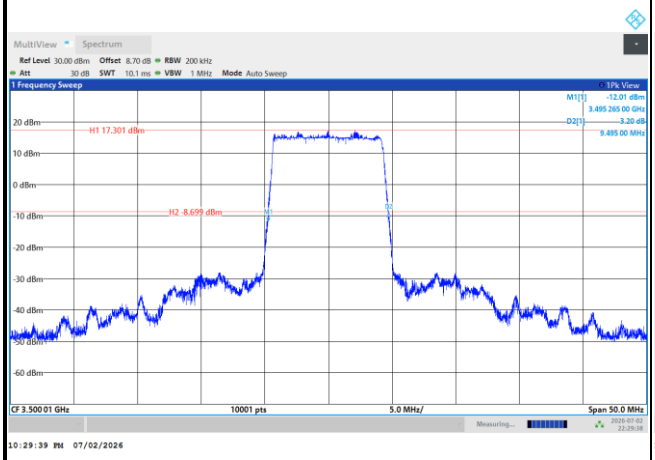
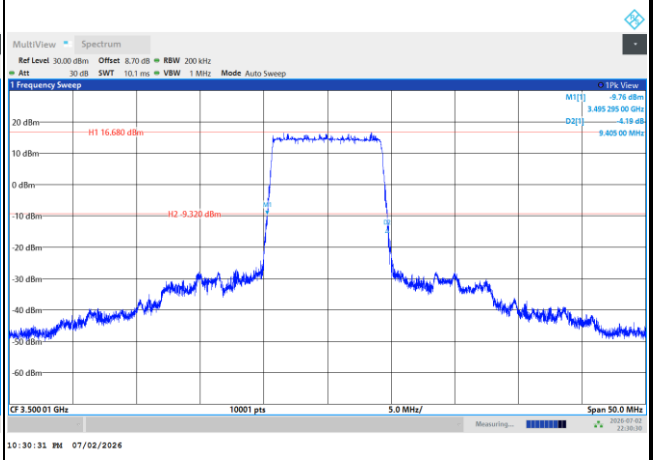
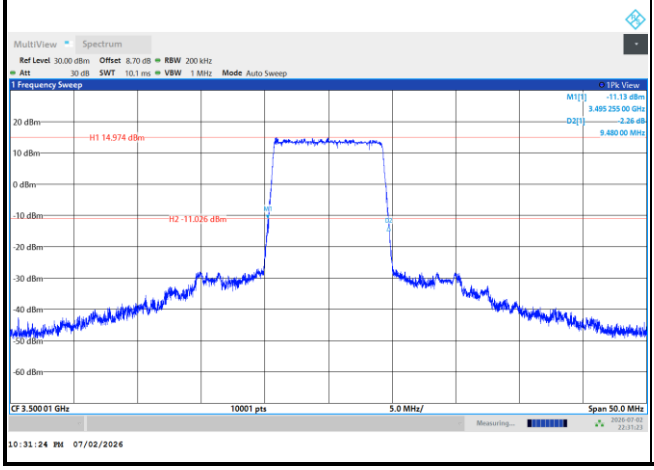
Peak-to-Average Ratio

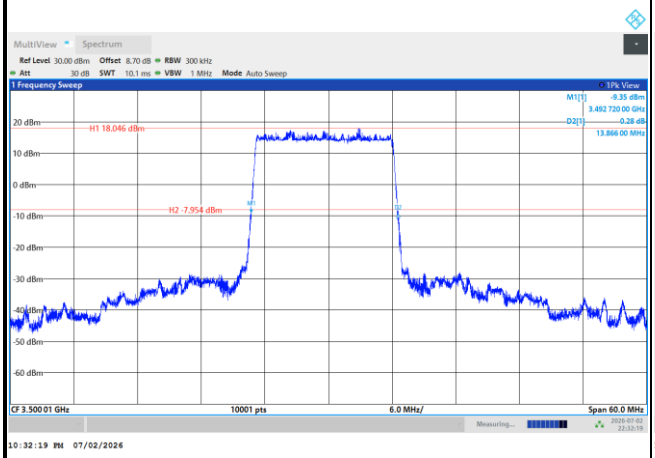
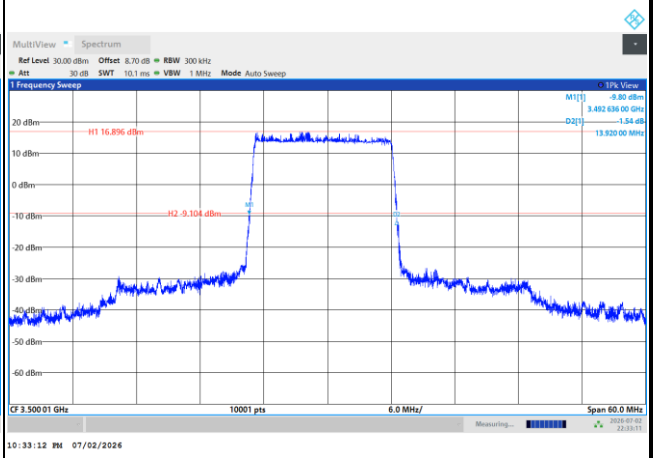
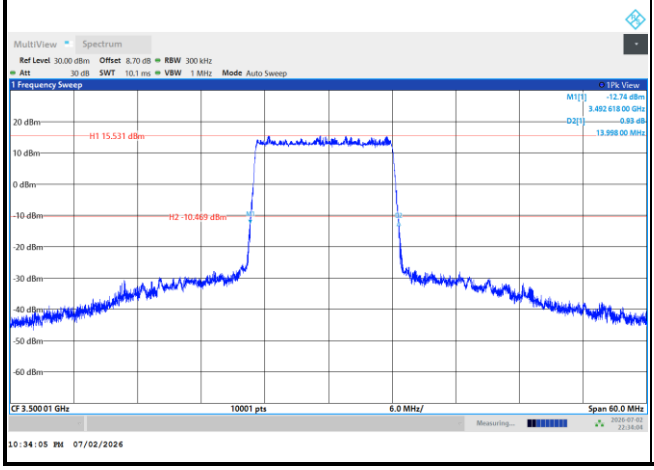
Mode	FR1 n77 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.48	5.74	6.60	6.74	PASS
Mode	FR1 n77 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.78				PASS

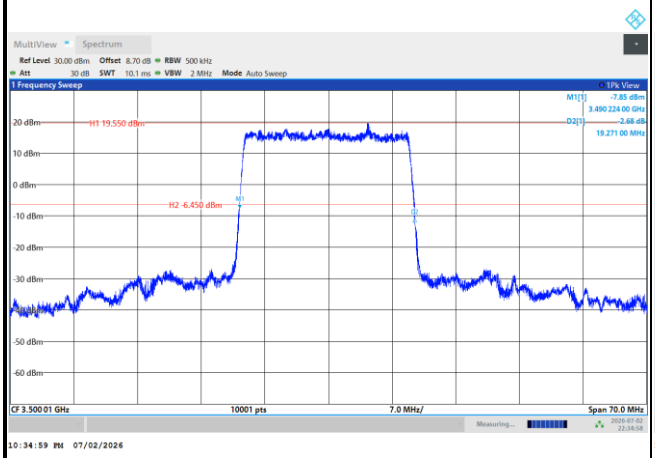
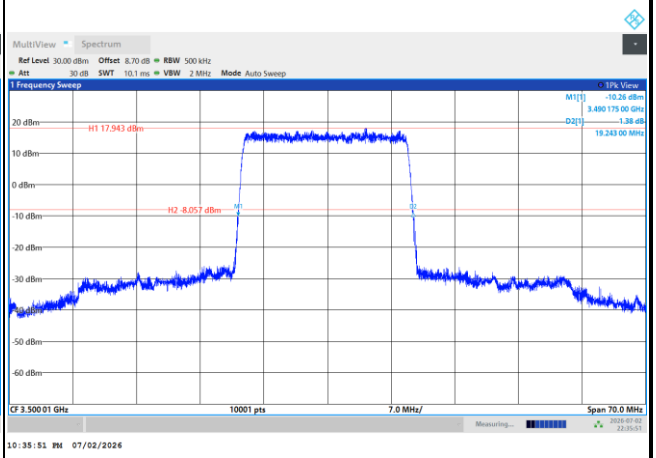
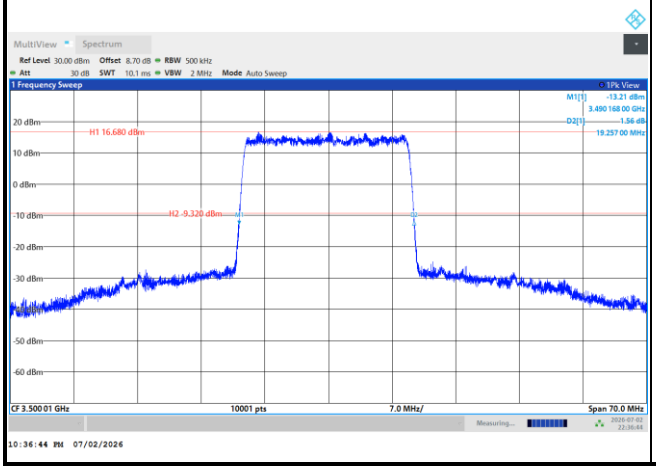
FR1 n77 / 20MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	QPSK
	
16QAM	64QAM
	
256QAM	
	

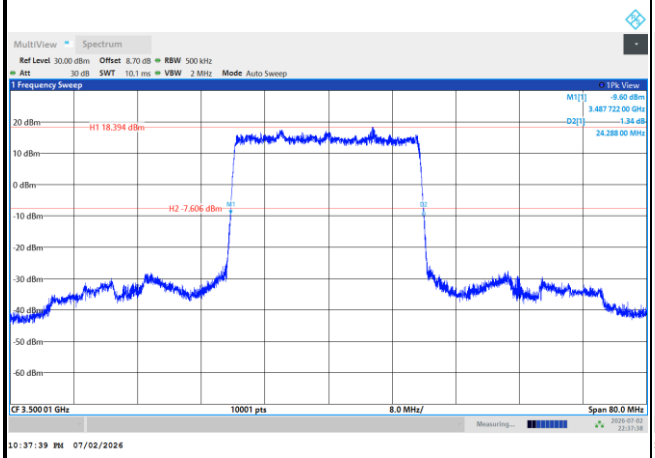
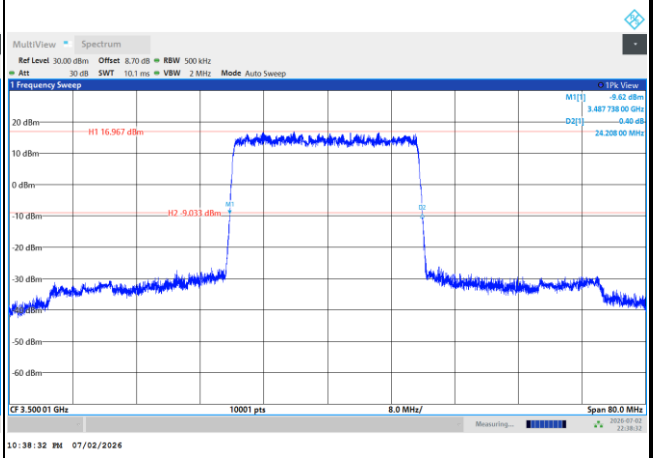
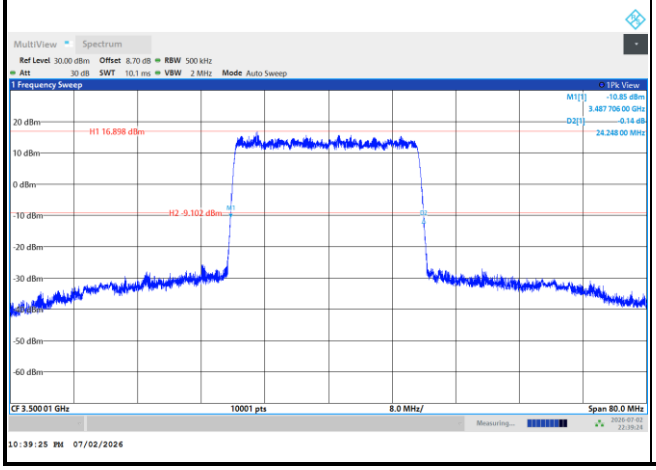
26dB Bandwidth

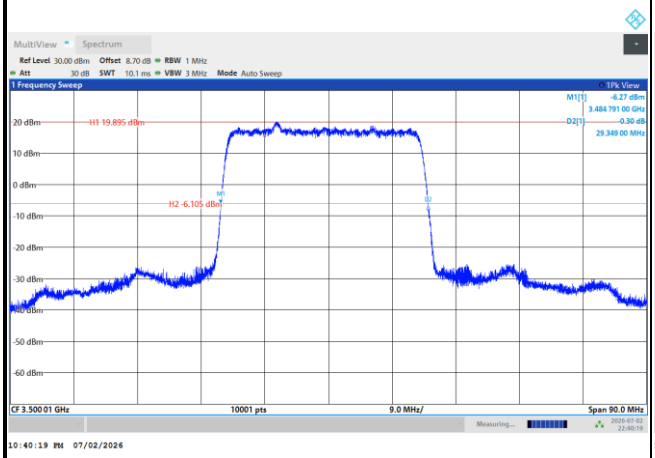
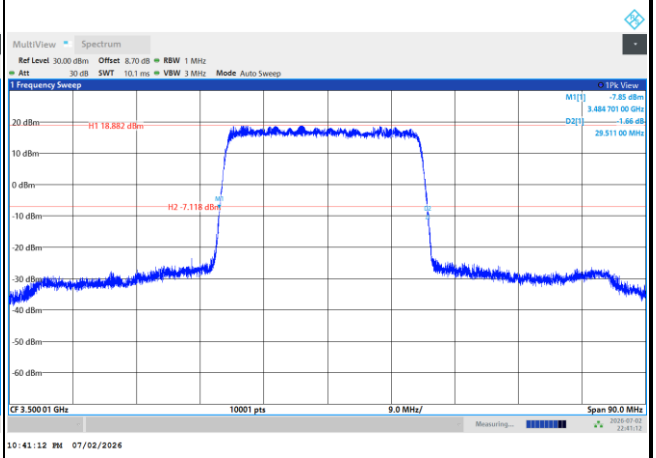
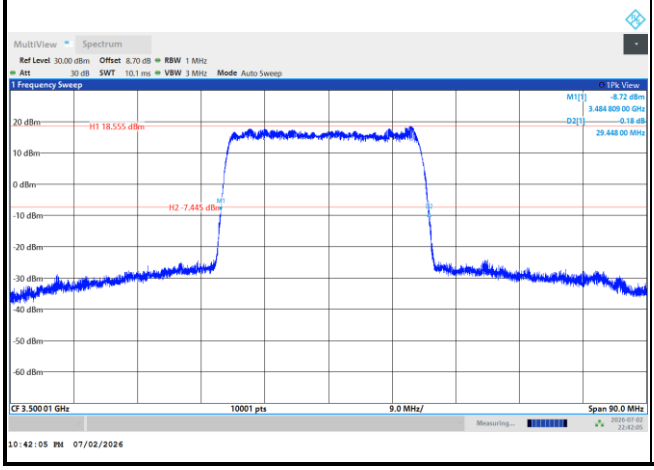
Mode	FR1 n77 : 26dB BW(MHz) / DFT-S OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK
Middle CH	9.49	9.40	13.86	13.92	19.27	19.24	24.28	24.20
Mod.	16QAM		16QAM		16QAM		16QAM	
Middle CH	9.48		13.99		19.25		24.24	
BW	30MHz		40MHz		50MHz		60MHz	
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK
Middle CH	29.34	29.51	38.20	38.29	48.41	48.29	62.73	62.80
Mod.	16QAM		16QAM		16QAM		16QAM	
Middle CH	29.44		38.41		48.30		62.62	
BW	70MHz		80MHz		90MHz		100MHz	
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK
Middle CH	69.24	69.17	82.19	82.32	91.95	91.98	101.66	101.61
Mod.	16QAM		16QAM		16QAM		16QAM	
Middle CH	69.27		82.11		91.79		101.43	

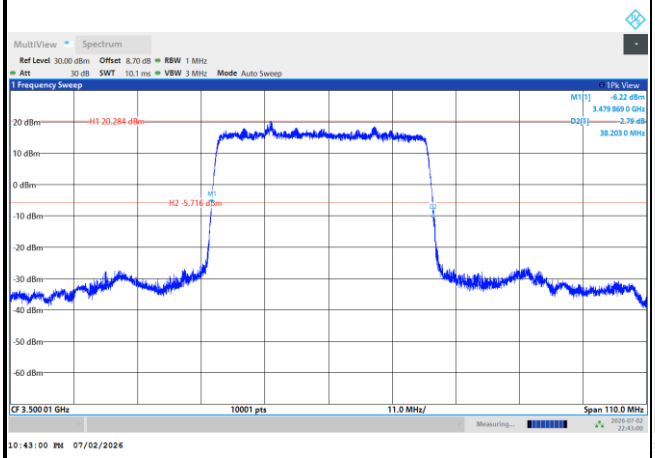
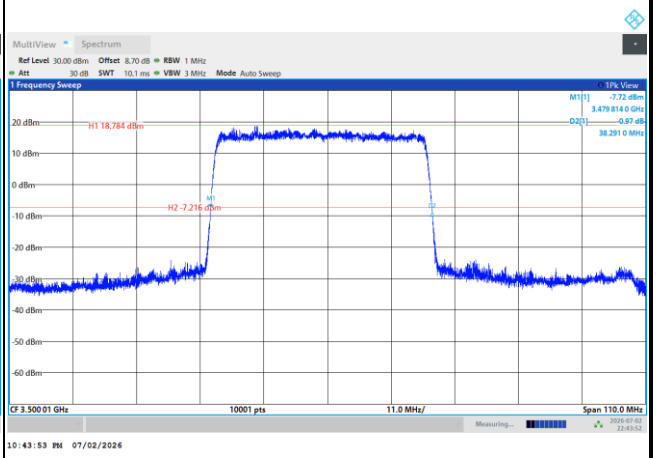
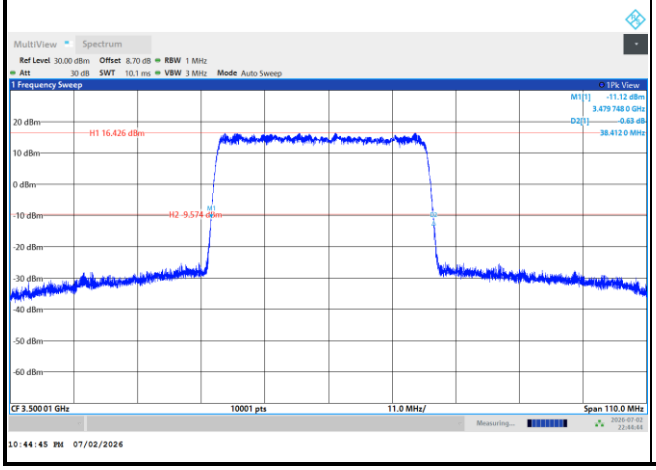
FR1 n77 / 10MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	QPSK
	
16QAM	
	

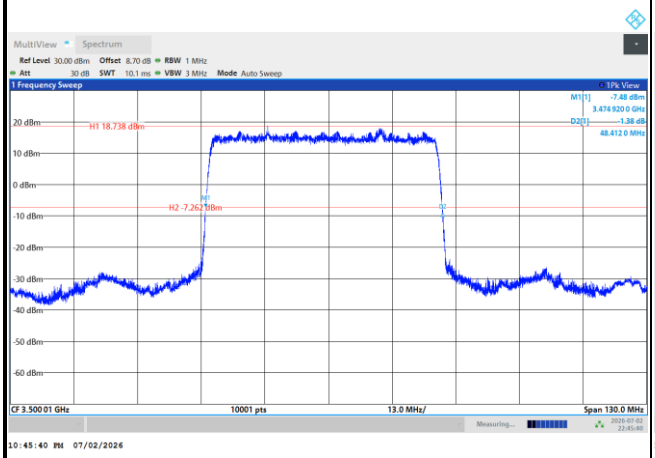
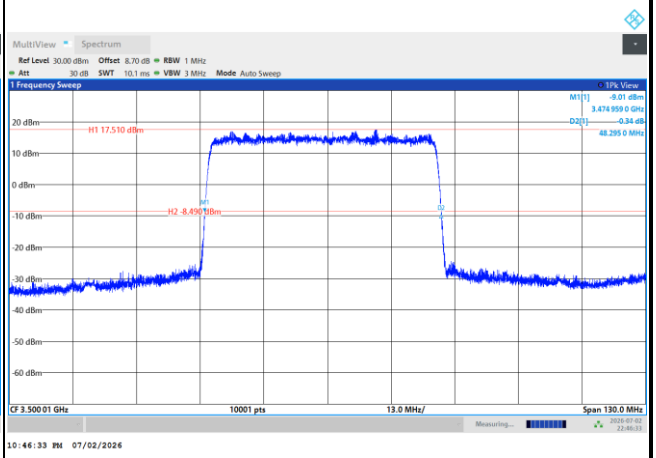
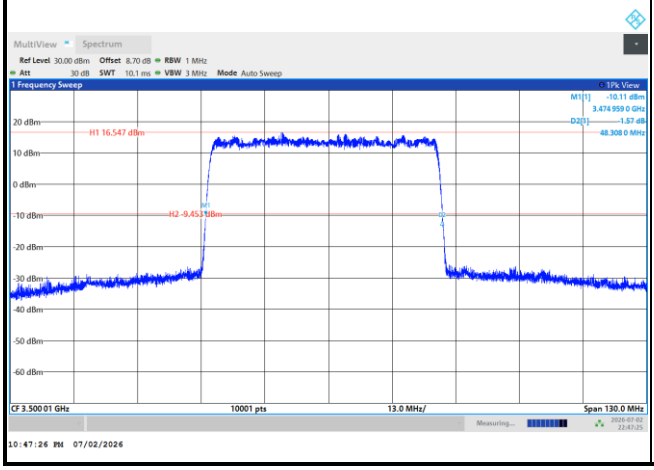
FR1 n77 / 15MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	QPSK
	
16QAM	
	

FR1 n77 / 20MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	QPSK
	
16QAM	
	

FR1 n77 / 25MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	QPSK
	
16QAM	
	

FR1 n77 / 30MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	QPSK
	
16QAM	
	

FR1 n77 / 40MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	QPSK
	
16QAM	
	

FR1 n77 / 50MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	QPSK
	
16QAM