



FCC RADIO TEST REPORT

FCC ID : LHJ-FE5NAR110
Equipment : FE5NAR110, FE5NAR111
Brand Name : Continental
Model Name : FE5NAR110, FE5NAR111
Applicant : Continental Automotive Systems, Inc.
21440 W Lake Cook Rd., Deer Park, IL 60010, USA
Manufacturer : Continental Automotive Systems, Inc.
21440 W Lake Cook Rd., Deer Park, IL 60010, USA
Standard : FCC 47 CFR Part 2, 22(H), 24(E), 27

The product was received on Aug. 06, 2024 and testing was performed from Aug. 14, 2024 to Sep. 18, 2024. We, Sporton International Inc. EMC & Wireless Communications 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 partial report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FG480602C	01	Initial issue of report	Oct. 04, 2024
FG480602C	02	Revise Appendix B This report is an updated version, replacing the report issued on Oct. 04, 2024.	Oct. 11, 2024
FG480602C	03	Revise Appendix B This report is an updated version, replacing the report issued on Oct. 11, 2024.	Oct. 22, 2024



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Pass	-
	§22.913 (a)(5)	Effective Radiated Power (n5)	Pass	
	§27.50 (c)(10)	Effective Radiated Power (n71)		
	§24.232 (c) §27.50 (h)(2)	Equivalent Isotropic Radiated Power (n2) (n25) (n41)		
	§27.50 (j)(3)	Equivalent Isotropic Radiated Power (n77)	Pass	
-	§24.232 (d) §27.50 (j)(4)	Peak-to-Average Ratio	-	See Note
-	§2.1049	Occupied Bandwidth	-	See Note
-	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g) §27.53 (l)(2)	Conducted Band Edge Measurement (n2) (n5) (n25) (n71)(n77)	-	See Note
	§2.1051 §27.53 (m)(4)	Conducted Band Edge Measurement (n41)		
-	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g) §27.53 (l)(2)	Conducted Spurious Emission (n2) (n5) (n25) (n71) (n77)	-	See Note
	§2.1051 §27.53 (m)(4)	Conducted Spurious Emission (n41)		
-	§2.1055 §22.355 §24.235 §27.54	Frequency Stability Temperature & Voltage	-	See Note



Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
4.2	§2.1053 §22.917 (a) §24.238 (a) §27.53 (g) §27.53 (l)(2)	Radiated Spurious Emission (n2) (n5) (n25) (n71) (n77)	Pass	9.86 dB under the limit at 1872.00 MHz
	§2.1053 §27.53 (m)(4)	Radiated Spurious Emission (n41)		

Note:

1. For host device, Radiated Spurious Emission, Equivalent Isotropic Radiated Power and Effective Radiated Power are verified and complies with the limit in this test report.
2. For host device, the Conducted Output Power is no difference after compared to module (Model: FE5NAR110, FE5NAR111).

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.

Reviewed by: Yun Huang**Report Producer: Ming Chen**



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	FE5NAR110, FE5NAR111
Brand Name	Continental
Model Name	FE5NAR110, FE5NAR111
FCC ID	LHJ-FE5NAR110
Installed into the Host	Equipment name: G12N51RG1, G12N50RG1 Brand name: Continental Model name: G12N51RG1, G12N50RG1
EUT supports Radios application	WCDMA/HSPA/LTE/5G NR/GNSS
EUT Stage	Identical Prototype

Sample Information			
Sample	TA-code	L2/L5 GNSS	Band Difference
1	FE5NAR110	Support	/
2	FE5NAR111	Not Support	BOM change: depopulated passive components from the GNSS RF front-end

Remark: The above EUT's information was declared by manufacturer.

Support Band and Evaluated Information	
Supported Band	n2, n5, ,n25, n41, n71, n77
Evaluated and Tested Band	n2, n5, ,n25, n41, n71, n77

TDD Band Power Class		
	PC3	PC2
n2	V	
n5	V	
n25	V	
n41		V
n41(MIMO)	V	
n66	V	
n71	V	
n77		V
n77(MIMO)	V	



1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard	
Tx Frequency	5G NR n2: 1852.5 MHz ~ 1907.5 MHz 5G NR n5: 826.5 MHz ~ 846.5 MHz 5G NR n25: 1852.5 MHz ~ 1912.5 MHz 5G NR n41: 2506.02 MHz ~ 2679.99 MHz 5G NR n71: 665.5 MHz ~ 695.5 MHz 5G NR n77: 3710.01 MHz ~ 3969.99 MHz
Rx Frequency	5G NR n2: 1932.5 MHz ~ 1987.5 MHz 5G NR n5: 871.5 MHz ~ 891.5 MHz 5G NR n25: 1932.5 MHz ~ 1992.5 MHz 5G NR n41: 2506.02 MHz ~ 2679.99 MHz 5G NR n71: 619.5 MHz ~ 649.5 MHz 5G NR n77: 3710.01 MHz ~ 3969.99 MHz
Bandwidth	5G NR n2: 5MHz / 10MHz / 15MHz / 20MHz 5G NR n5: 5MHz / 10MHz / 15MHz / 20MHz 5G NR n25: 5MHz / 10MHz / 15MHz / 20MHz / 25MHz / 30MHz / 40MHz 5G NR n41: 10MHz / 15MHz / 20MHz / 30MHz / 40MHz / 50MHz / 60MHz / 80MHz / 90MHz / 100MHz 5G NR n71: 5MHz / 10MHz / 15MHz / 20MHz 5G NR n77: 20MHz / 30MHz / 40MHz / 50MHz / 60MHz / 70MHz / 80MHz / 90MHz / 100MHz
Maximum Output Power to Antenna	5G NR n2: 23.34 dBm 5G NR n5: 23.19 dBm 5G NR n25: 23.33 dBm 5G NR n41: 26.47 dBm 5G NR n41: 22.30 dBm for MIMO 5G NR n71: 23.10 dBm 5G NR n77: 25.69 dBm_HPUE 5G NR n77: 21.54 dBm for MIMO Mode



Product Specification is subject to this standard	
Antenna Type / Gain	<Internal Antenna>: TCP Antenna Primary cell antenna: 5G NR n2: 5.15 dBi 5G NR n5: 4.69 dBi 5G NR n25: 5.15 dBi 5G NR n41: 6.91 dBi 5G NR n71: 0.06 dBi 5G NR n77: 8.37 dBi Secondary antenna: 5G NR n41: 4.90 dBi 5G NR n77: 7.33 dBi <External Glass Antenna (Composed by component PN: 85038208, 85038209, 85038210, 85732934)>: Primary cell antenna: 5G NR n2: 4.34 dBi 5G NR n5: 2.72 dBi 5G NR n25: 4.34 dBi 5G NR n41: 4.03 dBi 5G NR n71: 2.31 dBi 5G NR n77: 2.12 dBi Secondary antenna: 5G NR n41: 3.24 dBi 5G NR n77: 2.57 dBi <External Front Fender Antenna (Composed by component PN: 86784729, 86784728)>: Primary cell antenna: 5G NR n2: 4.89 dBi 5G NR n5: 4.81 dBi 5G NR n25: 4.89 dBi 5G NR n41: 6.44 dBi 5G NR n71: 4.67 dBi 5G NR n77: 2.77 dBi Secondary antenna: 5G NR n41: 5.03 dBi 5G NR n77: -0.67 dBi <External sharkfin antenna, North America 5G L1 Only + XM (Composed by component PN: 26464255)>: Primary cell antenna: 5G NR n2: 5.30 dBi 5G NR n5: 0.60 dBi 5G NR n25: 5.30 dBi 5G NR n41: 3.10 dBi 5G NR n71: 0.50 dBi 5G NR n77: 3.30 dBi Secondary antenna: 5G NR n41: 3.10 dBi 5G NR n77: 3.30 dBi

Product Specification is subject to this standard	
Antenna Type / Gain	<External sharkfin antenna, North America 5G L1/L5 + XM (Composed by component PN: 26464260)>: Primary cell antenna: 5G NR n2: 5.70 dBi 5G NR n5: 5.50 dBi 5G NR n25: 5.70 dBi 5G NR n41: 3.10 dBi 5G NR n71: 0.50 dBi 5G NR n77: 3.30 dBi Secondary antenna: 5G NR n41: 3.10 dBi 5G NR n77: 3.30 dBi <External Sharkfin Antenna + XM + Dual GNSS +5G (Composed by component PN: 86783279)>: Primary cell antenna: 5G NR n2: 3.50 dBi 5G NR n5: 4.00 dBi 5G NR n25: 3.50 dBi 5G NR n41: 6.10 dBi 5G NR n71: 1.70 dBi 5G NR n77: 6.20 dBi Secondary antenna: 5G NR n41: 4.90 dBi 5G NR n77: 3.80 dBi
Type of Modulation	PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

Remark:

1. The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.
2. For 5G NR n41 and 5G NR n77, Primary cell antenna is only available in MIMO mode.
3. The manufacturer declared that signal attenuation of the connecting cable between the transmitter and internal antenna is 5.35 dB for n77.

1.3 Modification of EUT

No modifications made to the EUT during the testing.



1.4 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. TH03-HY
Test Engineer	Ivy Yeh
Temperature (°C)	20.1~23.1
Relative Humidity (%)	47.6~58.9

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. 03CH11-HY (TAF Code:3786)
Test Engineer	Daniel Lee, Fu Chen and Troye Hsieh
Temperature (°C)	20.1~21.9
Relative Humidity (%)	51.2~65.7
Remark	The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory.

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

FCC Designation No.: TW1190 and TW3786



1.5 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
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.
3. 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.

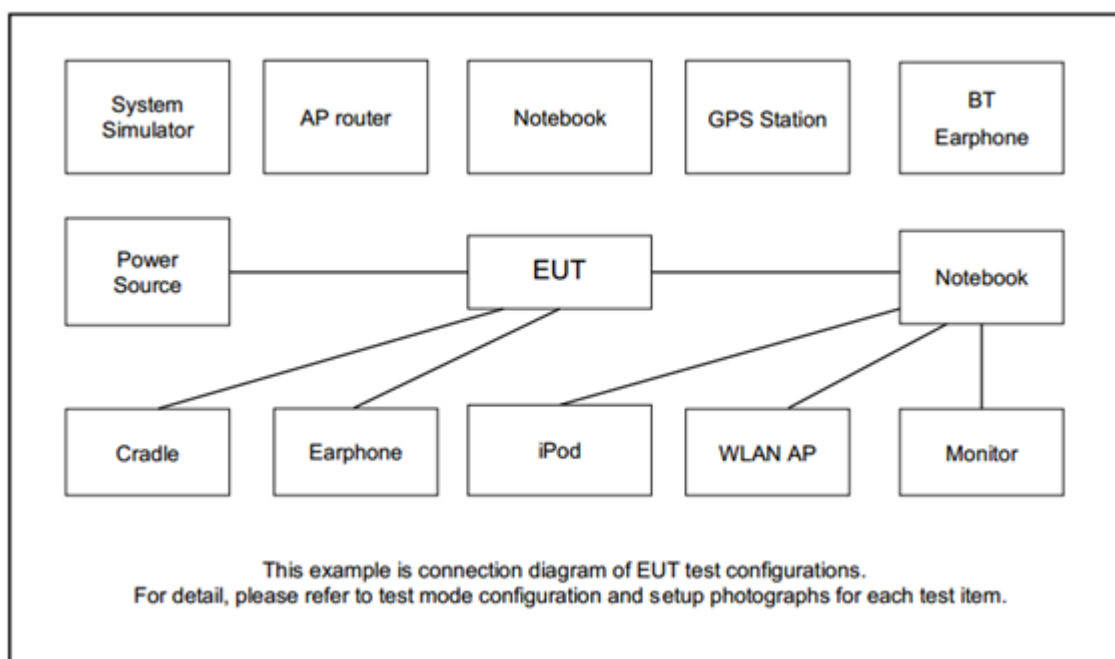
Modulation Type	Modulation	Modulation Type	Modulation
A	DFT-s-OFDM pi/2 BPSK	N/A	N/A
B	DFT-s-OFDM QPSK	F	CP-OFDM QPSK
C	DFT-s-OFDM 16QAM	G	CP-OFDM 16QAM
D	DFT-s-OFDM 64QAM	H	CP-OFDM 64QAM
E	DFT-s-OFDM 256QAM	I	CP-OFDM 256QAM

Test Item	Modulation Type	Bandwidth	RB Size	Channel
Conducted Power	A, B, C, D, E	All	1, Half, Full	L, M, H
EIRP	A, B, C, D, E	All	1, Half, Full	L, M, H
RSE	B	20 MHz, 100 MHz or less	Inner_1RB	L, M, H

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. For 5G NR test combination are EN-DC 14A_n2A, EN-DC 2A_n5A, EN-DC 14A_n77A.
4. All the radiated test cases were performed with Sample 1.

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.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GW Instek	GPE-2323	N/A	N/A	N/A
3.	Adapter	TePoo	PT-WC-03	N/A	N/A	N/A
4.	Metal Plate	N/A	N/A	N/A	N/A	N/A
5.	Teddy Jr Load Box	Continental	N/A	N/A	N/A	N/A



2.4 Frequency List of Low/Middle/High Channels

5G NR n2 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	372000	376000	380000
	Frequency	1860	1880	1900
15	Channel	371500	376000	380500
	Frequency	1857.5	1880	1902.5
10	Channel	371000	376000	381000
	Frequency	1855	1880	1905
5	Channel	370500	376000	381500
	Frequency	1852.5	1880	1907.5

5G NR n5 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	166800	167300	167800
	Frequency	834	836.5	839
15	Channel	166300	167300	168300
	Frequency	831.5	836.5	841.5
10	Channel	165800	167300	168800
	Frequency	829	836.5	844
5	Channel	165300	167300	169300
	Frequency	826.5	836.5	846.5



5G NR n25 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	372000	376500	381000
	Frequency	1860	1882.5	1905
15	Channel	371500	376500	381500
	Frequency	1857.5	1882.5	1907.5
10	Channel	371000	376500	382000
	Frequency	1855	1882.5	1910
5	Channel	370500	376500	382500
	Frequency	1852.5	1882.5	1912.5

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
60	Channel	505200	518598	531996
	Frequency	2526	2592.99	2659.98
50	Channel	504204	518598	532998
	Frequency	2521.02	2592.99	2664.99
40	Channel	503202	518598	534000
	Frequency	2516.01	2592.99	2670
30	Channel	502200	518598	534996
	Frequency	2511	2592.99	2674.98
20	Channel	501204	518598	535998
	Frequency	2506.02	2592.99	2679.99



5G NR n71 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	134600	136100	137600
	Frequency	673	680.5	688
15	Channel	134100	136100	138100
	Frequency	670.5	680.5	690.5
10	Channel	133600	136100	138600
	Frequency	668	680.5	693
5	Channel	133100	136100	139100
	Frequency	665.5	680.5	695.5



5G NR Band n77 Channel and Frequency List for SCS 30kHz				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	650000	656000	662000
	Frequency	3750	3840	3930
90	Channel	649668	656000	662332
	Frequency	3745.02	3840	3934.98
80	Channel	649334	656000	662666
	Frequency	3740.01	3840	3939.99
70	Channel	649000	656000	663000
	Frequency	3735	3840	3945
60	Channel	648668	656000	663332
	Frequency	3730.02	3840	3949.98
50	Channel	648334	656000	663666
	Frequency	3725.01	3840	3954.99
40	Channel	648000	656000	664000
	Frequency	3720	3840	3960
30	Channel	647668	656000	664332
	Frequency	3715.02	3840	3965
20	Channel	647334	656000	664666
	Frequency	3710.01	3840	3969.99

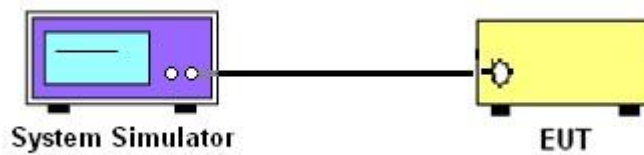
3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.1.1 Test Setup

3.1.2 Conducted Output Power



3.1.3 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 ERP of mobile transmitters must not exceed 7 Watts for 5G NR n5

The ERP of mobile transmitters must not exceed 3 Watts for 5G NR n71

The EIRP of mobile transmitters must not exceed 2 Watts for 5G NR n2 and n25 and n41 and n77

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.
5. The MIMO mode is completely uncorrelated, so the directional gain is selected the maximum gain among all antennas.

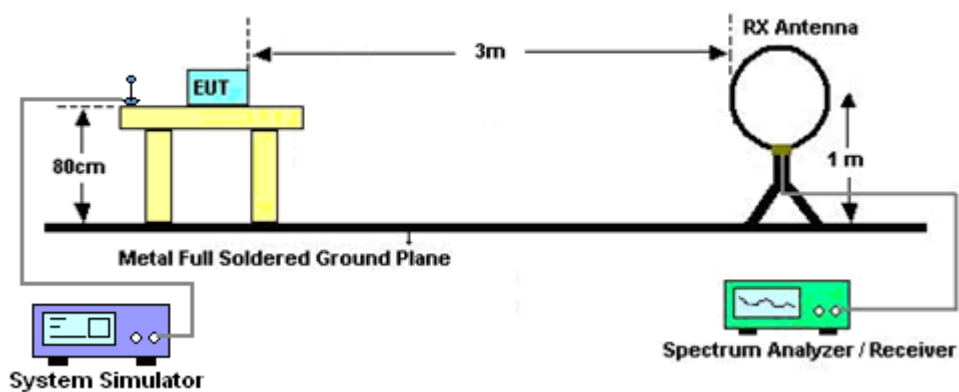
4 Radiated Test Items

4.1 Measuring Instruments

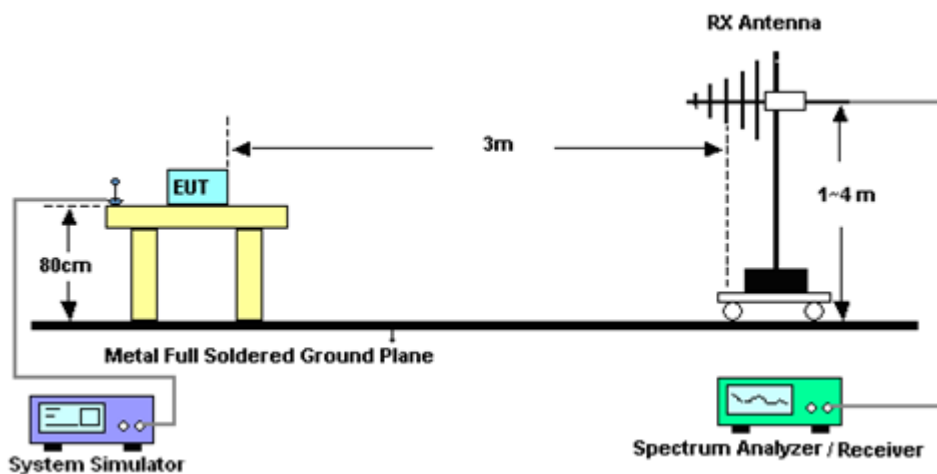
See list of measuring instruments of this test report.

4.1.1 Test Setup

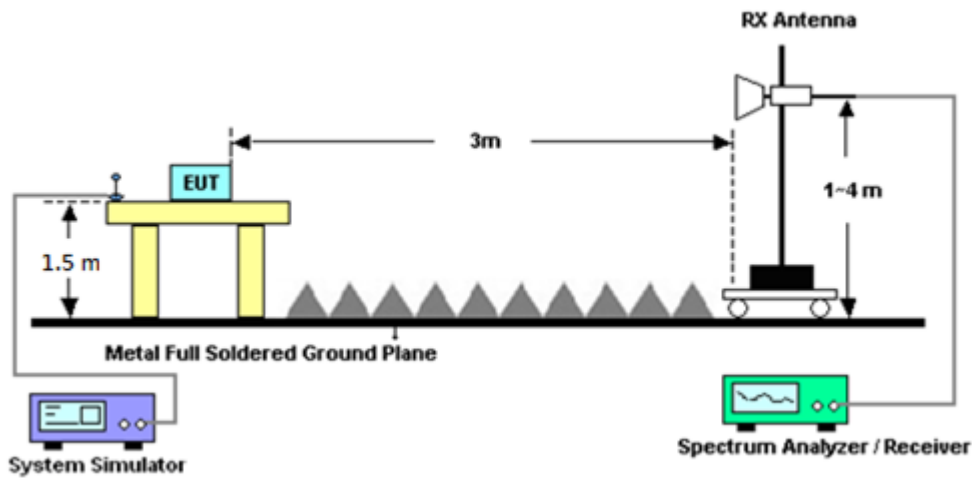
For radiated test below 30MHz



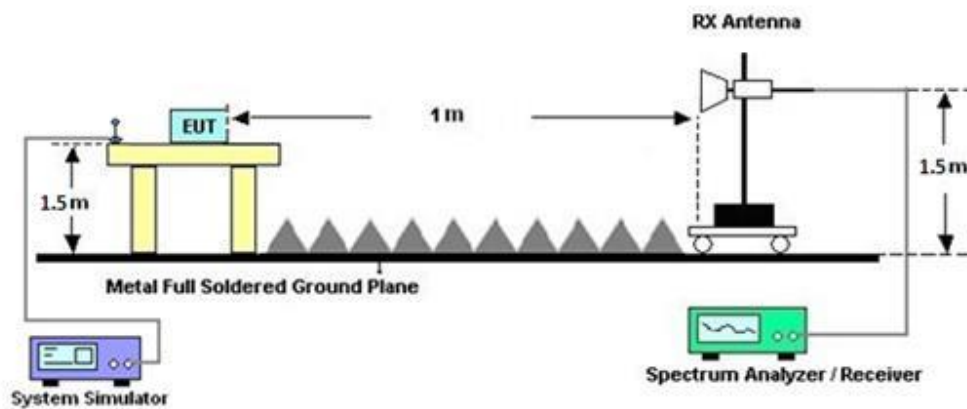
For radiated test from 30MHz to 1GHz



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 C63.26-2015. 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 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)
$$\text{EIRP(dBm)} = \text{Level (dBuV/m)} + 20\log(d) - 104.77,$$
where d is the distance at which field strength limit is specified in the rules
7.
$$\text{Field Strength Level (dBm)} = \text{Spectrum Reading (dBm)} + \text{Antenna Factor} + \text{Cable Loss} + \text{Read Level} - \text{Preamp Factor}.$$
8.
$$\text{ERP (dBm)} = \text{EIRP (dBm)} - 2.15$$
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)–



5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 07, 2023	Aug. 16, 2024~ Aug. 27, 2024	Oct. 06, 2024	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 12, 2023	Aug. 16, 2024~ Aug. 27, 2024	Sep. 11, 2024	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02038	1GHz~18GHz	Jul. 29, 2024	Aug. 16, 2024~ Aug. 27, 2024	Jul. 28, 2025	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1224	18GHz~40GHz	Jun. 24, 2024	Aug. 16, 2024~ Aug. 27, 2024	Jun. 23, 2025	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 08, 2023	Aug. 16, 2024~ Aug. 27, 2024	Dec. 07, 2024	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Mar. 25, 2024	Aug. 16, 2024~ Aug. 27, 2024	Mar. 24, 2025	Radiation (03CH11-HY)
Preamplifier	Jet-Power	JPA0118-55-303	1710001800055007	1GHz~18GHz	Jun. 13, 2024	Aug. 16, 2024~ Aug. 27, 2024	Jun. 12, 2025	Radiation (03CH11-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	May 27, 2024	Aug. 16, 2024~ Aug. 27, 2024	May 26, 2025	Radiation (03CH11-HY)
Preamplifier	EMEC	EM18G40G	060872	18GHz~40GHz	Sep. 06, 2023	Aug. 16, 2024~ Aug. 27, 2024	Sep. 05, 2024	Radiation (03CH11-HY)
Preamplifier	EMEC	EM18G40G	06715	18GHz~40GHz	Dec. 07, 2023	Aug. 16, 2024~ Aug. 27, 2024	Dec. 06, 2024	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 05, 2023	Aug. 16, 2024~ Aug. 27, 2024	Oct. 04, 2024	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Aug. 16, 2024~ Aug. 27, 2024	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Aug. 16, 2024~ Aug. 27, 2024	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Aug. 16, 2024~ Aug. 27, 2024	N/A	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Aug. 16, 2024~ Aug. 27, 2024	N/A	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTM-303B	TP140325	N/A	Dec. 08, 2023	Aug. 16, 2024~ Aug. 27, 2024	Dec. 07, 2024	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801595/2	30M~40G	Mar. 06, 2024	Aug. 16, 2024~ Aug. 27, 2024	Mar. 05, 2025	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804013/2	30M~40G	May 23, 2024	Aug. 16, 2024~ Aug. 27, 2024	May 22, 2025	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz~40GHz	Mar. 06, 2024	Aug. 16, 2024~ Aug. 27, 2024	Mar. 05, 2025	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	Mar. 06, 2024	Aug. 16, 2024~ Aug. 27, 2024	Mar. 05, 2025	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	30M~40G	Mar. 06, 2024	Aug. 16, 2024~ Aug. 27, 2024	Mar. 05, 2025	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-900-1000-15000-60SS	SN12	1GHz High Pass Filter	Sep. 11, 2023	Aug. 16, 2024~ Aug. 27, 2024	Sep. 10, 2024	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-2700-3000-18000-60SS	SN3	3GHz High Pass Filter	Sep. 11, 2023	Aug. 16, 2024~ Aug. 27, 2024	Sep. 10, 2024	Radiation (03CH11-HY)
Filter	Wainwright	WHKX8-5872.5-6750-18000-40SS	SN3	6.75GHz High Pass Filter	Sep. 11, 2023	Aug. 16, 2024~ Aug. 27, 2024	Sep. 10, 2024	Radiation (03CH11-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
DC Power Supply	GW Instek	GPE2323	GET910884	0V~64V ;0A~6A	Nov. 16, 2023	Aug. 14, 2024~ Sep. 18, 2024	Nov. 15, 2024	Conducted (TH03-HY)
Hygrometer	TECPEL	DTM-303B	TP200886	NA	Mar. 14, 2024	Aug. 14, 2024~ Sep. 18, 2024	Mar. 13, 2025	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8821C	6262116725	LTE	Oct. 25, 2023	Aug. 14, 2024~ Sep. 18, 2024	Oct. 24, 2024	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8000A	6262148275	FR1	Oct. 24, 2023	Aug. 14, 2024~ Sep. 18, 2024	Oct. 23, 2024	Conducted (TH03-HY)
Software 1	Sporton	FCC 5GNR_FSV30 44 20231106	N/A	Conducted Test Item	N/A	Aug. 14, 2024~ Sep. 18, 2024	N/A	Conducted (TH03-HY)



6 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.290 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.076 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.082 dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power) and ERP/EIRP

<SISO Mode>

NR n2 Maximum Average Power [dBm] (GT - LC = 5.7 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
5	1	1	PI/2 BPSK	23.08	23.16	23.20	29.00	0.7943		
5	1	23		23.14	23.26	23.23				
5	12	6		23.15	23.23	23.30				
5	1	0		22.47	22.54	22.66				
5	1	24		22.48	22.65	22.74				
5	25	0		22.51	22.73	22.80				
5	1	1	QPSK	22.97	23.10	23.15				
5	1	23		23.00	23.22	23.25				
5	12	6		23.12	23.18	23.30				
5	1	0		22.91	23.11	23.14				
5	1	24		22.98	23.15	23.19				
5	25	0		22.09	22.27	22.25				
5	1	1	16-QAM	22.09	22.12	22.27	27.97	0.6266		
5	1	1	64-QAM	20.54	20.58	20.63				
5	1	1	256-QAM	18.03	18.21	18.28				
Limit	EIRP < 2W			Result			Pass			

NR n2 Maximum Average Power [dBm] (GT - LC = 5.7 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
10	1	1	PI/2 BPSK	23.06	23.16	23.23	29.03	0.7998		
10	1	50		23.15	23.26	23.21				
10	25	12		23.23	23.29	23.33				
10	1	0		22.66	22.57	22.76				
10	1	51		23.20	22.75	22.77				
10	50	0		22.61	22.79	22.88				
10	1	1	QPSK	23.08	22.99	23.19				
10	1	50		23.11	23.18	23.22				
10	25	12		23.06	23.23	23.33				
10	1	0		23.07	23.00	23.21				
10	1	51		23.10	23.15	23.19				
10	50	0		22.15	22.24	22.30				
10	1	1	16-QAM	22.04	22.01	22.21	27.91	0.618		
10	1	1	64-QAM	20.53	20.46	20.64				
10	1	1	256-QAM	18.17	18.16	18.37				
Limit	EIRP < 2W			Result			Pass			



NR n2 Maximum Average Power [dBm] (GT - LC = 5.7 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
15	1	1	PI/2 BPSK	23.26	23.10	23.30	29.04	0.8017		
15	1	77		23.34	23.23	23.23				
15	36	18		23.17	23.23	23.22				
15	1	0		22.70	22.69	22.74				
15	1	78		22.75	22.73	22.73				
15	75	0		22.73	22.75	22.76				
15	1	1	QPSK	23.19	23.05	23.14				
15	1	77		23.29	23.25	23.33				
15	36	18		23.21	23.24	23.26				
15	1	0		23.08	23.10	23.17				
15	1	78		23.13	23.16	23.20				
15	75	0		22.23	22.34	22.27				
15	1	1	16-QAM	22.25	22.23	22.30	28	0.631		
15	1	1	64-QAM	20.67	20.61	20.72				
15	1	1	256-QAM	18.28	18.30	18.35				
Limit	EIRP < 2W			Result			Pass			

NR n2 Maximum Average Power [dBm] (GT - LC = 5.7 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
20	1	1	PI/2 BPSK	23.20	23.09	23.34	29.04	0.8017		
20	1	104		23.22	23.23	23.32				
20	50	25		23.30	23.18	23.31				
20	1	0		22.75	22.70	22.98				
20	1	105		22.85	22.69	22.99				
20	100	0		22.83	22.74	22.87				
20	1	1	QPSK	23.21	23.13	23.26				
20	1	104		23.10	22.81	23.22				
20	50	25		23.32	23.21	23.31				
20	1	0		23.18	23.13	23.22				
20	1	105		23.10	23.17	23.26				
20	100	0		22.31	23.28	22.35				
20	1	1	16-QAM	22.24	22.24	22.42	28.12	0.6486		
20	1	1	64-QAM	20.67	20.71	20.76				
20	1	1	256-QAM	18.28	18.27	18.24				
Limit	EIRP < 2W			Result			Pass			



NR n5 Maximum Average Power [dBm] (GT - LC = 5.5 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
5	1	1	PI/2 BPSK	22.97	23.00	23.03	26.45	0.4416		
5	1	23		22.96	22.89	22.96				
5	12	6		22.93	23.10	22.91				
5	1	0		22.41	22.45	22.52				
5	1	24		22.36	22.33	22.36				
5	25	0		22.52	22.44	22.45				
5	1	1	QPSK	22.91	22.88	22.98				
5	1	23		22.78	22.72	22.95				
5	12	6		23.00	22.91	22.98				
5	1	0		22.86	22.91	22.96				
5	1	24		22.78	22.75	22.55				
5	25	0		21.99	21.93	21.97				
5	1	1	16-QAM	21.97	21.91	22.04	25.39	0.3459		
5	1	1	64-QAM	20.44	20.40	20.54				
5	1	1	256-QAM	18.12	18.06	18.14				
Limit	ERP < 7W			Result			Pass			

NR n5 Maximum Average Power [dBm] (GT - LC = 5.5 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
10	1	1	PI/2 BPSK	22.80	22.90	22.90	26.54	0.4508		
10	1	50		22.99	22.95	22.62				
10	25	12		23.04	23.04	23.19				
10	1	0		22.42	22.39	21.86				
10	1	51		22.45	22.34	21.38				
10	50	0		22.46	22.48	22.20				
10	1	1	QPSK	22.76	22.82	22.87				
10	1	50		22.92	22.83	22.93				
10	25	12		22.90	22.94	23.02				
10	1	0		22.75	22.72	22.81				
10	1	51		22.82	22.82	22.94				
10	50	0		21.85	22.00	21.96				
10	1	1	16-QAM	21.89	21.79	21.86	25.24	0.3342		
10	1	1	64-QAM	20.37	20.20	20.49				
10	1	1	256-QAM	18.01	18.12	18.03				
Limit	ERP < 7W			Result			Pass			



NR n5 Maximum Average Power [dBm] (GT - LC = 5.5 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
15	1	1	PI/2 BPSK	23.12	22.88	23.07	26.47	0.4436		
15	1	77		23.06	22.99	22.98				
15	36	18		23.05	23.06	22.95				
15	1	0		22.49	22.36	22.42				
15	1	78		22.38	22.41	22.54				
15	75	0		22.52	22.52	22.44				
15	1	1	QPSK	22.86	22.98	23.08				
15	1	77		22.91	22.94	22.90				
15	36	18		23.06	22.98	23.01				
15	1	0		22.86	22.89	22.95				
15	1	78		22.91	22.81	23.03				
15	75	0		22.11	22.06	22.04				
15	1	1	16-QAM	22.05	22.04	22.03	25.4	0.3467		
15	1	1	64-QAM	20.35	20.34	20.44				
15	1	1	256-QAM	18.17	18.14	18.13				
Limit	ERP < 7W			Result			Pass			

NR n5 Maximum Average Power [dBm] (GT - LC = 5.5 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
20	1	1	PI/2 BPSK	23.03	23.11	22.94	26.48	0.4446		
20	1	104		22.88	22.96	23.00				
20	50	25		23.13	23.05	23.06				
20	1	0		22.52	22.66	22.42				
20	1	105		22.31	22.48	22.49				
20	100	0		22.53	22.49	22.47				
20	1	1	QPSK	22.98	22.99	22.91				
20	1	104		22.87	22.92	22.75				
20	50	25		23.11	23.08	23.04				
20	1	0		22.88	23.00	22.88				
20	1	105		22.79	23.09	22.66				
20	100	0		22.14	23.02	21.93				
20	1	1	16-QAM	21.99	21.95	21.92	25.34	0.3420		
20	1	1	64-QAM	20.40	20.74	20.33				
20	1	1	256-QAM	18.11	18.16	18.05				
Limit	ERP < 7W			Result			Pass			



NR n25 Maximum Average Power [dBm] (GT - LC = 5.7 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
5	1	1	PI/2 BPSK	22.79	23.06	23.08	28.86	0.7691		
5	1	23		22.79	23.06	23.10				
5	12	6		22.87	23.14	23.15				
5	1	0		22.35	22.61	22.49				
5	1	24		22.28	22.58	22.53				
5	25	0		22.30	22.64	22.63				
5	1	1	QPSK	22.88	23.10	23.12				
5	1	23		22.93	23.16	23.14				
5	12	6		22.82	23.12	23.08				
5	1	0		21.81	22.15	22.07				
5	1	24		21.87	22.14	22.01				
5	25	0		21.86	22.17	22.15				
5	1	1	16-QAM	21.76	22.01	21.94	27.71	0.5902		
5	1	1	64-QAM	20.62	20.79	20.72				
5	1	1	256-QAM	17.76	18.08	18.02				
Limit	EIRP < 2W			Result			Pass			

NR n25 Maximum Average Power [dBm] (GT - LC = 5.7 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
10	1	1	PI/2 BPSK	22.89	22.98	22.82	28.87	0.7709		
10	1	50		23.01	23.02	23.01				
10	25	12		22.87	23.11	23.10				
10	1	0		22.37	22.50	22.62				
10	1	51		22.44	22.47	22.62				
10	50	0		22.43	22.69	22.70				
10	1	1	QPSK	22.82	23.10	23.17				
10	1	50		22.98	23.07	23.11				
10	25	12		22.85	23.14	23.13				
10	1	0		21.85	22.02	22.15				
10	1	51		21.99	22.15	22.15				
10	50	0		21.86	22.10	22.15				
10	1	1	16-QAM	21.85	22.12	22.08	27.82	0.6053		
10	1	1	64-QAM	20.58	20.77	20.79				
10	1	1	256-QAM	17.79	17.96	18.05				
Limit	EIRP < 2W			Result			Pass			



NR n25 Maximum Average Power [dBm] (GT - LC = 5.7 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
15	1	1	PI/2 BPSK	23.24	23.33	23.09	29.03	0.7998		
15	1	77		23.24	23.11	23.19				
15	36	18		23.05	23.23	23.19				
15	1	0		22.47	22.77	22.49				
15	1	78		22.62	22.52	22.60				
15	75	0		22.51	22.68	22.65				
15	1	1	QPSK	22.89	23.30	23.10				
15	1	77		23.25	23.05	23.32				
15	36	18		23.03	23.23	23.23				
15	1	0		21.94	22.18	22.10				
15	1	78		22.15	22.10	22.08				
15	75	0		22.05	22.24	22.23				
15	1	1	16-QAM	21.91	22.24	22.03	27.94	0.6223		
15	1	1	64-QAM	20.67	20.96	20.73				
15	1	1	256-QAM	17.95	18.15	17.99				
Limit	EIRP < 2W			Result			Pass			

NR n25 Maximum Average Power [dBm] (GT - LC = 5.7 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
20	1	1	PI/2 BPSK	23.02	23.28	23.10	29.02	0.7980		
20	1	104		23.15	22.99	23.04				
20	50	25		23.08	23.23	23.09				
20	1	0		22.46	22.77	22.61				
20	1	105		22.61	22.40	22.60				
20	100	0		22.55	22.66	22.54				
20	1	1	QPSK	22.93	23.32	23.21				
20	1	104		23.09	23.02	23.24				
20	50	25		23.07	23.22	23.17				
20	1	0		21.93	22.25	22.16				
20	1	105		22.17	21.98	22.14				
20	100	0		22.16	22.20	22.13				
20	1	1	16-QAM	22.06	22.18	22.07	27.88	0.6138		
20	1	1	64-QAM	20.67	20.99	20.82				
20	1	1	256-QAM	17.97	18.19	18.08				
Limit	EIRP < 2W			Result			Pass			



NR n41 Maximum Average Power [dBm] (GT - LC = 5.03 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
20	1	1	PI/2 BPSK	26.17	25.95	25.44	31.23	1.3274		
20	1	49		25.99	25.85	25.58				
20	25	12		26.16	25.97	25.53				
20	1	0		22.74	22.44	21.98				
20	1	50		22.54	22.33	22.03				
20	50	0		25.68	25.49	25.06				
20	1	1	QPSK	26.20	25.90	25.45				
20	1	49		26.10	25.84	25.57				
20	25	12		26.19	25.99	25.59				
20	1	0		22.68	22.44	22.00				
20	1	50		22.56	22.36	22.10				
20	50	0		25.16	24.97	24.56				
20	1	1	16-QAM	25.39	25.07	24.70	30.42	1.1015		
20	1	1	64-QAM	23.79	23.57	23.09				
20	1	1	256-QAM	21.47	21.23	20.78				
Limit	EIRP < 2W			Result			Pass			



NR n41 Maximum Average Power [dBm] (GT - LC = 5.03 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
30	1	1	PI/2 BPSK	26.45	25.92	25.65	31.49	1.4093		
30	1	76		26.30	26.07	25.78				
30	36	18		26.37	26.02	25.67				
30	1	0		22.99	22.59	22.12				
30	1	77		22.78	22.59	22.34				
30	75	0		25.91	25.55	25.21				
30	1	1	QPSK	26.46	25.95	25.62				
30	1	76		26.27	26.02	25.77				
30	36	18		26.31	26.04	25.52				
30	1	0		22.99	22.43	22.07				
30	1	77		22.77	22.51	22.34				
30	75	0		25.36	25.07	24.69				
30	1	1	16-QAM	25.62	25.15	24.79	30.65	1.1614		
30	1	1	64-QAM	24.10	23.67	23.24				
30	1	1	256-QAM	21.75	21.19	20.79				
Limit	EIRP < 2W			Result			Pass			

NR n41 Maximum Average Power [dBm] (GT - LC = 5.03 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
40	1	1	PI/2 BPSK	26.24	26.02	25.72	31.35	1.3646		
40	1	104		26.19	26.06	25.84				
40	50	25		26.28	26.09	25.70				
40	1	0		23.03	22.58	22.21				
40	1	105		22.67	22.62	22.36				
40	100	0		25.79	25.07	25.19				
40	1	1	QPSK	26.17	26.08	25.65				
40	1	104		26.14	26.04	25.85				
40	50	25		26.32	26.06	25.63				
40	1	0		22.95	22.56	22.17				
40	1	105		22.67	22.61	22.32				
40	100	0		25.32	25.14	24.73				
40	1	1	16-QAM	25.42	25.24	24.57	30.45	1.1092		
40	1	1	64-QAM	24.09	23.65	23.50				
40	1	1	256-QAM	21.73	21.28	20.84				
Limit	EIRP < 2W			Result			Pass			



NR n41 Maximum Average Power [dBm] (GT - LC = 5.03 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
50	1	1	PI/2 BPSK	26.33	25.92	25.52	31.36	1.3677		
50	1	131		25.93	25.85	25.63				
50	64	32		26.14	26.08	25.47				
50	1	0		22.87	22.47	22.03				
50	1	132		22.40	22.38	22.26				
50	128	0		25.65	25.52	25.05				
50	1	1	QPSK	26.29	25.84	25.50				
50	1	131		25.90	25.80	25.67				
50	64	32		26.10	25.96	25.48				
50	1	0		22.79	22.39	21.99				
50	1	132		22.40	22.35	22.29				
50	128	0		25.17	24.98	24.49				
50	1	1	16-QAM	25.44	24.98	24.48	30.47	1.1143		
50	1	1	64-QAM	23.90	23.52	23.03				
50	1	1	256-QAM	21.60	21.12	20.77				
Limit	EIRP < 2W			Result			Pass			

NR n41 Maximum Average Power [dBm] (GT - LC = 5.03 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
60	1	1	PI/2 BPSK	26.26	25.85	25.38	31.29	1.3459		
60	1	160		25.78	25.92	25.74				
60	81	40		26.11	26.02	25.61				
60	1	0		22.80	22.43	21.93				
60	1	161		22.29	22.44	22.25				
60	162	0		25.57	25.47	25.10				
60	1	1	QPSK	26.23	25.80	25.36				
60	1	160		25.70	25.83	25.72				
60	81	40		26.07	25.96	25.57				
60	1	0		22.76	22.35	21.89				
60	1	161		22.32	22.33	22.22				
60	162	0		24.99	24.97	24.58				
60	1	1	16-QAM	25.46	25.02	24.61	30.49	1.1194		
60	1	1	64-QAM	23.89	23.45	23.00				
60	1	1	256-QAM	21.48	21.16	20.63				
Limit	EIRP < 2W			Result			Pass			



NR n41 Maximum Average Power [dBm] (GT - LC = 5.03 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
80	1	1	PI/2 BPSK	26.30	25.95	25.68	31.33	1.3583		
80	1	215		25.45	25.97	25.75				
80	108	54		25.96	25.99	25.81				
80	1	0		22.83	22.52	22.26				
80	1	216		21.89	22.50	22.26				
80	216	0		25.43	25.51	25.26				
80	1	1	QPSK	26.22	26.02	25.66				
80	1	215		25.47	25.91	25.81				
80	108	54		25.99	26.01	25.73				
80	1	0		22.80	22.49	22.08				
80	1	216		21.91	22.52	22.27				
80	216	0		24.97	24.99	24.73				
80	1	1	16-QAM	25.45	25.19	24.90	30.48	1.1169		
80	1	1	64-QAM	23.90	23.65	23.25				
80	1	1	256-QAM	21.53	21.22	20.86				
Limit	EIRP < 2W			Result			Pass			



NR n41 Maximum Average Power [dBm] (GT - LC = 5.03 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
90	1	1	PI/2 BPSK	26.47	26.30	26.02	31.5	1.4125		
90	1	243		25.64	26.21	26.11				
90	120	60		26.22	26.36	25.97				
90	1	0		23.09	22.85	22.53				
90	1	244		22.25	22.79	22.64				
90	243	0		25.68	25.78	25.60				
90	1	1	QPSK	26.42	26.30	25.97				
90	1	243		25.68	26.25	26.09				
90	120	60		26.18	26.31	26.02				
90	1	0		23.11	22.78	22.55				
90	1	244		22.21	22.81	22.69				
90	243	0		25.21	25.27	25.06				
90	1	1	16-QAM	25.73	25.47	25.20	30.76	1.1912		
90	1	1	64-QAM	24.23	23.96	23.58				
90	1	1	256-QAM	21.93	21.56	21.22				
Limit	EIRP < 2W			Result			Pass			

NR n41 Maximum Average Power [dBm] (GT - LC = 5.03 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
100	1	1	PI/2 BPSK	26.20	26.34	26.10	31.39	1.3772		
100	1	271		25.72	26.32	26.24				
100	135	67		26.16	26.29	26.13				
100	1	0		23.10	22.86	22.60				
100	1	272		22.23	22.99	22.71				
100	270	0		25.64	25.77	25.60				
100	1	1	QPSK	26.11	26.27	26.01				
100	1	271		25.62	26.36	26.19				
100	135	67		26.13	26.30	26.07				
100	1	0		23.06	22.84	22.53				
100	1	272		22.30	22.88	22.69				
100	270	0		25.14	25.25	25.06				
100	1	1	16-QAM	25.51	25.48	25.22	30.54	1.1324		
100	1	1	64-QAM	24.00	23.95	23.67				
100	1	1	256-QAM	21.88	21.59	21.27				
Limit	EIRP < 2W			Result			Pass			



NR n71 Maximum Average Power [dBm] (GT - LC = 4.67 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
5	1	1	PI/2 BPSK	22.74	22.94	23.00	25.61	0.3639		
5	1	23		22.63	22.91	22.83				
5	12	6		22.67	23.05	22.99				
5	1	0		22.27	22.54	22.64				
5	1	24		22.24	22.36	22.40				
5	25	0		22.36	22.54	22.53				
5	1	1	QPSK	22.57	23.09	23.05				
5	1	23		22.66	22.97	22.89				
5	12	6		22.69	22.96	22.99				
5	1	0		21.75	22.06	22.15				
5	1	24		21.79	22.03	21.99				
5	25	0		21.85	22.03	22.11				
5	1	1	16-QAM	21.72	22.03	22.00	24.55	0.2851		
5	1	1	64-QAM	20.42	20.70	20.74				
5	1	1	256-QAM	17.82	18.01	18.09				
Limit	ERP < 3W			Result			Pass			

NR n71 Maximum Average Power [dBm] (GT - LC = 4.67 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
10	1	1	PI/2 BPSK	22.70	22.82	23.04	25.56	0.3597		
10	1	50		22.79	22.97	22.84				
10	25	12		22.86	23.00	22.96				
10	1	0		22.37	22.43	22.58				
10	1	51		22.40	22.53	22.42				
10	50	0		22.37	22.58	22.55				
10	1	1	QPSK	22.80	22.81	22.99				
10	1	50		22.80	22.98	22.92				
10	25	12		22.74	22.93	22.95				
10	1	0		21.81	21.94	22.12				
10	1	51		21.87	22.07	21.89				
10	50	0		21.83	22.00	22.05				
10	1	1	16-QAM	21.70	21.85	22.07	24.59	0.2877		
10	1	1	64-QAM	20.53	20.60	20.74				
10	1	1	256-QAM	17.80	17.85	18.02				
Limit	ERP < 3W			Result			Pass			



NR n71 Maximum Average Power [dBm] (GT - LC = 4.67 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
15	1	1	PI/2 BPSK	22.72	22.94	23.10	25.62	0.3648		
15	1	77		22.89	22.98	23.01				
15	36	18		22.70	23.05	22.96				
15	1	0		22.28	22.51	22.64				
15	1	78		22.42	22.56	22.41				
15	75	0		22.28	22.70	22.53				
15	1	1	QPSK	22.69	22.86	23.04				
15	1	77		22.90	23.03	22.87				
15	36	18		22.73	23.00	22.99				
15	1	0		21.77	22.00	22.13				
15	1	78		21.98	22.09	21.95				
15	75	0		21.87	22.11	22.08				
15	1	1	16-QAM	21.77	21.86	22.18	24.7	0.2951		
15	1	1	64-QAM	20.55	20.68	20.77				
15	1	1	256-QAM	17.76	17.98	18.18				
Limit	ERP < 3W			Result			Pass			

NR n71 Maximum Average Power [dBm] (GT - LC = 4.67 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
20	1	1	PI/2 BPSK	22.76	22.89	23.04	25.59	0.3622		
20	1	104		22.88	22.94	22.91				
20	50	25		22.75	23.05	23.07				
20	1	0		22.21	22.48	22.59				
20	1	105		22.54	22.60	22.50				
20	100	0		22.41	22.63	22.54				
20	1	1	QPSK	22.77	22.86	22.97				
20	1	104		22.88	22.97	22.84				
20	50	25		22.88	22.98	23.05				
20	1	0		21.69	21.97	22.14				
20	1	105		22.02	22.07	21.99				
20	100	0		21.93	22.12	22.09				
20	1	1	16-QAM	21.66	21.92	22.07	24.59	0.2877		
20	1	1	64-QAM	20.49	20.60	20.76				
20	1	1	256-QAM	17.73	17.86	18.01				
Limit	ERP < 3W			Result			Pass			



Part 27O NR n77 Maximum Average Power [dBm] (GT - LC = 3.8 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
20	1	1	PI/2 BPSK	25.13	25.15	25.63	29.45	0.8810		
20	1	49		25.11	25.06	25.64				
20	25	12		24.98	25.18	25.65				
20	1	0		21.65	21.66	22.26				
20	1	50		21.67	21.51	22.23				
20	50	0		24.47	24.68	25.28				
20	1	1	QPSK	25.13	25.15	25.60				
20	1	49		25.14	25.09	25.62				
20	25	12		24.95	25.18	25.62				
20	1	0		21.64	21.59	22.18				
20	1	50		21.58	21.51	22.19				
20	50	0		24.04	24.15	24.77				
20	1	1	16-QAM	24.33	24.27	24.93	28.73	0.7464		
20	1	1	64-QAM	22.82	22.84	23.38				
20	1	1	256-QAM	20.43	20.46	20.97				
Limit	EIRP < 1W			Result			Pass			



Part 270 NR n77 Maximum Average Power [dBm] (GT - LC = 3.8 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
30	1	1	PI/2 BPSK	25.22	25.04	25.62	29.49	0.8892		
30	1	76		25.29	25.13	25.69				
30	36	18		25.09	25.16	25.63				
30	1	0		21.74	21.62	21.99				
30	1	77		21.80	21.59	22.19				
30	75	0		24.70	24.62	25.16				
30	1	1	QPSK	25.12	25.07	25.54				
30	1	76		25.23	25.14	25.57				
30	36	18		25.09	25.04	25.64				
30	1	0		21.57	21.54	22.06				
30	1	77		21.74	21.65	22.17				
30	75	0		24.12	24.08	24.63				
30	1	1	16-QAM	24.32	24.30	24.80	28.6	0.7244		
30	1	1	64-QAM	22.83	22.71	23.10				
30	1	1	256-QAM	20.48	20.32	20.78				
Limit	EIRP < 1W			Result			Pass			

Part 270 NR n77 Maximum Average Power [dBm] (GT - LC = 3.8 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
40	1	1	PI/2 BPSK	25.20	25.20	25.59	29.46	0.8831		
40	1	104		25.23	25.12	25.66				
40	50	25		25.09	25.14	25.55				
40	1	0		21.68	21.66	21.96				
40	1	105		21.80	21.61	22.35				
40	100	0		24.64	24.66	24.60				
40	1	1	QPSK	25.16	25.11	25.37				
40	1	104		25.24	25.09	25.55				
40	50	25		25.05	25.15	25.61				
40	1	0		21.66	21.66	21.93				
40	1	105		21.56	21.57	22.27				
40	100	0		24.19	24.15	24.58				
40	1	1	16-QAM	24.30	24.34	24.63	28.43	0.6966		
40	1	1	64-QAM	22.81	22.90	23.10				
40	1	1	256-QAM	20.36	20.39	20.64				
Limit	EIRP < 1W			Result			Pass			



Part 270 NR n77 Maximum Average Power [dBm] (GT - LC = 3.8 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
50	1	1	PI/2 BPSK	24.74	24.83	25.21	29.42	0.8750		
50	1	131		24.75	24.91	25.61				
50	64	32		24.92	25.07	25.51				
50	1	0		21.32	21.37	21.81				
50	1	132		21.13	21.47	22.03				
50	128	0		24.30	24.53	24.92				
50	1	1	QPSK	24.74	24.87	25.22				
50	1	131		24.77	24.87	25.62				
50	64	32		24.95	25.07	25.55				
50	1	0		21.40	21.42	21.67				
50	1	132		21.29	21.31	22.05				
50	128	0		23.87	23.99	24.49				
50	1	1	16-QAM	24.00	23.94	24.50	28.3	0.6761		
50	1	1	64-QAM	22.45	22.54	22.95				
50	1	1	256-QAM	20.13	20.12	20.51				
Limit	EIRP < 1W			Result			Pass			

Part 270 NR n77 Maximum Average Power [dBm] (GT - LC = 3.8 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
60	1	1	PI/2 BPSK	24.89	24.97	25.09	29.24	0.8395		
60	1	160		24.83	25.06	25.44				
60	81	40		25.04	25.10	25.39				
60	1	0		21.43	21.39	21.67				
60	1	161		21.29	21.46	21.92				
60	162	0		24.49	24.52	24.81				
60	1	1	QPSK	24.91	24.97	25.03				
60	1	160		24.81	25.03	25.35				
60	81	40		25.04	25.08	25.37				
60	1	0		21.39	21.48	21.56				
60	1	161		21.32	21.51	21.84				
60	162	0		24.03	24.11	24.35				
60	1	1	16-QAM	24.12	24.05	24.27	28.07	0.6412		
60	1	1	64-QAM	22.37	22.59	22.71				
60	1	1	256-QAM	20.14	20.23	20.16				
Limit	EIRP < 1W			Result			Pass			



Part 270 NR n77 Maximum Average Power [dBm] (GT - LC = 3.8 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
70	1	1	PI/2 BPSK	24.95	24.97	25.22	29.28	0.8472		
70	1	187		24.90	25.12	25.46				
70	90	45		25.09	25.15	25.48				
70	1	0		21.55	21.52	21.78				
70	1	188		21.40	21.60	21.97				
70	180	0		24.54	24.61	24.99				
70	1	1	QPSK	24.99	25.00	25.21				
70	1	187		24.89	25.02	25.43				
70	90	45		25.06	25.15	25.45				
70	1	0		21.51	21.49	21.71				
70	1	188		21.48	21.57	21.94				
70	180	0		24.01	24.10	24.46				
70	1	1	16-QAM	24.13	24.19	24.42	28.22	0.6637		
70	1	1	64-QAM	22.66	22.64	22.88				
70	1	1	256-QAM	20.28	20.29	20.48				
Limit	EIRP < 1W			Result			Pass			

Part 270 NR n77 Maximum Average Power [dBm] (GT - LC = 3.8 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
80	1	1	PI/2 BPSK	25.12	25.04	25.24	29.28	0.8472		
80	1	215		25.03	25.10	25.47				
80	108	54		25.16	25.19	25.48				
80	1	0		21.63	21.59	21.76				
80	1	216		21.54	21.58	21.95				
80	216	0		24.57	24.68	24.98				
80	1	1	QPSK	25.04	25.05	25.25				
80	1	215		25.03	25.11	25.43				
80	108	54		25.15	25.20	25.48				
80	1	0		21.59	21.57	21.74				
80	1	216		21.51	21.61	21.98				
80	216	0		24.06	24.14	24.52				
80	1	1	16-QAM	24.25	24.29	24.46	28.26	0.6699		
80	1	1	64-QAM	22.66	22.69	22.82				
80	1	1	256-QAM	20.39	20.33	20.51				
Limit	EIRP < 1W			Result			Pass			



Part 270 NR n77 Maximum Average Power [dBm] (GT - LC = 3.8 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
90	1	1	PI/2 BPSK	25.21	25.16	25.33	29.34	0.8590		
90	1	243		25.08	25.26	25.54				
90	120	60		25.19	25.22	25.45				
90	1	0		21.66	21.66	21.85				
90	1	244		21.52	21.75	22.05				
90	243	0		24.72	24.71	24.87				
90	1	1	QPSK	25.15	25.15	25.34				
90	1	243		25.04	25.27	25.53				
90	120	60		25.17	25.21	25.44				
90	1	0		21.67	21.69	21.79				
90	1	244		21.56	21.73	22.09				
90	243	0		24.19	24.18	24.45				
90	1	1	16-QAM	24.35	24.36	24.52	28.32	0.6792		
90	1	1	64-QAM	22.74	22.83	22.98				
90	1	1	256-QAM	20.45	20.42	20.55				
Limit	EIRP < 1W			Result			Pass			

Part 270 NR n77 Maximum Average Power [dBm] (GT - LC = 3.8 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
100	1	1	PI/2 BPSK	25.21	25.34	25.30	29.49	0.8892		
100	1	271		25.02	25.38	25.63				
100	135	67		25.23	25.26	25.52				
100	1	0		21.70	21.65	21.71				
100	1	272		21.59	21.84	22.22				
100	270	0		24.72	24.70	25.03				
100	1	1	QPSK	25.14	25.13	25.20				
100	1	271		25.01	25.31	25.69				
100	135	67		25.21	25.26	25.48				
100	1	0		21.67	21.61	21.74				
100	1	272		21.52	21.80	22.27				
100	270	0		24.19	24.20	24.43				
100	1	1	16-QAM	24.31	24.31	24.51	28.31	0.6776		
100	1	1	64-QAM	22.80	22.79	22.93				
100	1	1	256-QAM	20.47	20.41	20.54				
Limit	EIRP < 1W			Result			Pass			



<MIMO Mode>

NR n41 Maximum Average Power [dBm], DG = 6.91 dBi														
BW	RB	RB	Mod	Antenna 3			Antenna 4			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
20	1	1	QPSK	19.27	18.98	18.47	19.15	18.32	18.31	22.22	21.67	21.40	29.13	0.8185
20	1	49		19.21	19.06	18.74	18.76	18.22	18.20	22.00	21.67	21.49		
20	25	12		19.17	18.98	18.49	19.10	18.56	18.39	22.15	21.79	21.45		
20	1	0		17.79	17.50	16.99	17.51	16.88	16.74	20.66	20.21	19.88		
20	1	50		17.69	17.40	17.24	17.35	16.98	16.96	20.53	20.21	20.11		
20	51	0		17.70	17.45	17.00	17.59	17.08	17.03	20.66	20.28	20.03		
20	1	1	16-QAM	18.65	18.25	17.84	18.64	17.94	17.85	21.66	21.11	20.86	28.57	0.7194
20	1	1	64-QAM	17.01	16.75	16.21	17.27	16.52	16.37	20.15	19.65	19.30		
20	1	1	256-QAM	14.30	14.14	13.44	14.20	13.48	13.39	17.26	16.83	16.43		
Limit	EIRP < 2W			Result									Pass	



NR n41 Maximum Average Power [dBm], DG = 6.91 dBi														
BW	RB	RB	Mod	Antenna 3			Antenna 4			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
30	1	1	QPSK	19.38	18.71	18.35	19.20	17.76	17.94	22.30	21.27	21.16	29.21	0.8337
30	1	76		19.25	18.64	18.46	18.66	17.91	18.16	21.98	21.30	21.32		
30	39	19		19.20	18.73	18.35	19.14	17.93	17.88	22.18	21.36	21.13		
30	1	0		18.07	17.37	16.86	17.71	16.49	16.39	20.90	19.96	19.64		
30	1	77		17.74	17.22	17.09	17.33	16.53	16.58	20.55	19.90	19.85		
30	78	0		17.74	17.21	16.86	17.65	16.58	16.38	20.71	19.92	19.64		
30	1	1	16-QAM	18.76	18.04	17.60	18.71	17.23	17.32	21.75	20.66	20.47	28.66	0.7345
30	1	1	64-QAM	17.20	16.41	16.03	17.26	15.86	15.86	20.24	19.15	18.96		
30	1	1	256-QAM	14.55	13.82	13.32	14.36	13.02	12.69	17.47	16.45	16.03		
Limit	EIRP < 2W			Result									Pass	

NR n41 Maximum Average Power [dBm], DG = 6.91 dBi														
BW	RB	RB	Mod	Antenna 3			Antenna 4			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
40	1	1	QPSK	19.07	18.75	18.47	18.70	18.00	18.05	21.90	21.40	21.28	28.81	0.7603
40	1	76		18.74	18.78	18.56	17.95	17.98	18.30	21.37	21.41	21.44		
40	39	19		18.76	18.74	18.34	18.44	18.04	18.20	21.61	21.41	21.28		
40	1	0		17.73	17.28	17.03	17.17	16.41	16.47	20.47	19.88	19.77		
40	1	77		17.18	17.25	17.01	16.48	16.45	16.68	19.85	19.88	19.86		
40	78	0		17.34	17.22	16.96	16.89	16.44	17.08	20.13	19.86	20.03		
40	1	1	16-QAM	18.44	18.26	17.80	18.16	17.33	17.36	21.31	20.83	20.60	28.22	0.6637
40	1	1	64-QAM	16.80	16.50	16.23	16.60	15.81	16.00	19.71	19.18	19.13		
40	1	1	256-QAM	14.24	13.78	13.55	13.55	12.93	12.71	16.92	16.39	16.16		
Limit	EIRP < 2W			Result									Pass	



NR n41 Maximum Average Power [dBm], DG = 6.91 dBi														
BW	RB	RB	Mod	Antenna 3			Antenna 4			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
50	1	1	QPSK	19.15	18.64	18.24	18.45	17.92	17.62	21.82	21.31	20.95	28.73	0.7464
50	1	131		18.65	18.55	18.42	17.93	17.82	17.98	21.32	21.21	21.22		
50	67	33		18.70	18.68	18.11	18.22	17.87	17.63	21.48	21.30	20.89		
50	1	0		17.56	17.18	16.84	17.11	16.40	16.18	20.35	19.82	19.53		
50	1	132		17.11	17.09	16.96	16.60	16.29	16.58	19.87	19.72	19.78		
50	133	0		17.20	17.15	16.66	16.77	16.43	16.18	20.00	19.82	19.44		
50	1	1	16-QAM	18.37	18.01	17.65	18.20	17.32	17.14	21.30	20.69	20.41	28.21	0.6622
50	1	1	64-QAM	16.82	16.37	15.95	16.52	15.92	15.59	19.68	19.16	18.78		
50	1	1	256-QAM	14.09	13.72	13.37	13.49	12.92	12.39	16.81	16.35	15.92		
Limit	EIRP < 2W			Result									Pass	

NR n41 Maximum Average Power [dBm], DG = 6.91 dBi														
BW	RB	RB	Mod	Antenna 3			Antenna 4			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
60	1	1	QPSK	18.97	18.55	18.19	18.71	17.92	17.37	21.85	21.26	20.81	28.76	0.7516
60	1	160		18.48	18.51	18.46	18.02	17.60	18.08	21.27	21.09	21.28		
60	81	40		18.68	18.60	18.29	18.16	17.85	17.70	21.44	21.25	21.02		
60	1	0		17.50	17.05	16.58	17.14	16.29	16.01	20.33	19.70	19.31		
60	1	161		16.97	17.02	16.84	16.51	16.12	16.63	19.76	19.60	19.75		
60	162	0		17.22	17.02	16.83	16.76	16.32	15.94	20.01	19.69	19.42		
60	1	1	16-QAM	18.39	17.96	17.68	17.97	17.23	16.77	21.20	20.62	20.26	28.11	0.6471
60	1	1	64-QAM	16.74	16.33	16.10	16.47	15.79	15.26	19.62	19.08	18.71		
60	1	1	256-QAM	14.04	13.62	13.28	13.40	12.79	12.28	16.74	16.24	15.82		
Limit	EIRP < 2W			Result									Pass	



FCC RADIO TEST REPORT

Report No. : FG480602C

NR n41 Maximum Average Power [dBm], DG = 6.91 dBi														
BW	RB	RB	Mod	Antenna 3			Antenna 4			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
80	1	1	QPSK	19.22	18.71	18.45	18.71	18.15	17.77	21.98	21.45	21.13	28.89	0.7745
80	1	215		18.24	18.59	18.51	17.41	17.77	18.16	20.86	21.21	21.35		
80	109	54		18.72	18.60	18.48	18.06	17.88	17.89	21.41	21.27	21.21		
80	1	0		17.63	17.24	17.01	17.07	16.67	16.16	20.37	19.97	19.62		
80	1	216		16.73	17.20	17.10	15.95	16.23	16.58	19.37	19.75	19.86		
80	217	0		17.13	17.11	16.96	16.61	16.36	16.37	19.89	19.76	19.69		
80	1	1	16-QAM	18.35	18.08	17.85	18.07	17.53	17.17	21.22	20.82	20.53	28.13	0.6501
80	1	1	64-QAM	16.92	16.39	16.18	16.46	16.19	15.74	19.71	19.30	18.98		
80	1	1	256-QAM	14.17	13.81	13.51	13.57	13.06	12.73	16.89	16.46	16.15		
Limit	EIRP < 2W			Result									Pass	



NR n41 Maximum Average Power [dBm], DG = 6.91 dBi														
BW	RB	RB	Mod	Antenna 3			Antenna 4			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
90	1	1	QPSK	19.13	18.74	18.67	18.57	18.09	17.77	21.87	21.44	21.25	28.78	0.7551
90	1	243		18.23	18.74	18.52	17.28	17.84	18.07	20.79	21.32	21.31		
90	123	61		18.59	18.57	18.36	18.02	17.80	17.72	21.32	21.21	21.06		
90	1	0		17.67	17.32	17.07	17.13	16.69	16.27	20.42	20.03	19.70		
90	1	244		16.70	17.29	17.02	15.97	16.47	16.64	19.36	19.91	19.84		
90	245	0		17.06	17.10	16.90	16.55	16.44	16.31	19.82	19.79	19.63		
90	1	1	16-QAM	18.60	18.16	17.97	18.04	17.62	17.25	21.34	20.91	20.64	28.25	0.6683
90	1	1	64-QAM	16.91	16.55	16.22	16.62	16.22	15.79	19.78	19.40	19.02		
90	1	1	256-QAM	14.18	13.80	13.55	13.65	13.24	12.82	16.93	16.54	16.21		
Limit	EIRP < 2W			Result									Pass	

NR n41 Maximum Average Power [dBm], DG = 6.91 dBi														
BW	RB	RB	Mod	Antenna 3			Antenna 4			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
100	1	1	QPSK	19.10	18.81	18.51	18.63	18.26	17.71	21.88	21.55	21.14	28.79	0.7568
100	1	271		18.16	18.70	18.63	17.52	18.08	18.31	20.86	21.41	21.48		
100	137	68		18.53	18.57	18.48	17.93	17.88	17.79	21.25	21.25	21.16		
100	1	0		17.67	17.17	17.09	17.22	16.70	16.21	20.46	19.95	19.68		
100	1	272		16.66	17.29	17.05	16.01	16.62	16.83	19.36	19.98	19.95		
100	273	0		17.06	17.14	17.10	16.50	16.45	16.34	19.80	19.82	19.75		
100	1	1	16-QAM	18.46	18.17	17.93	18.09	17.57	17.17	21.29	20.89	20.58	28.20	0.6607
100	1	1	64-QAM	16.90	16.69	16.26	16.58	15.95	15.69	19.75	19.35	18.99		
100	1	1	256-QAM	14.17	13.83	13.60	13.59	13.05	12.64	16.90	16.47	16.16		
Limit	EIRP < 2W			Result									Pass	



FCC RADIO TEST REPORT

Report No. : FG480602C

Part27O NR n77 Maximum Average Power [dBm], DG = 6.2 dBi														
BW	RB	RB	Mod	Antenna 3			Antenna 4			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
20	1	1	QPSK	17.93	18.25	18.48	18.56	18.79	18.26	21.27	21.54	21.38	27.74	0.5943
20	1	49		17.93	18.06	18.60	18.49	18.71	17.92	21.23	21.41	21.28		
20	25	12		17.77	18.12	18.44	18.51	18.88	18.05	21.17	21.53	21.26		
20	1	0		16.06	16.28	16.56	16.56	16.97	16.18	19.33	19.65	19.38		
20	1	50		16.02	16.07	16.51	16.55	16.89	15.96	19.30	19.51	19.25		
20	51	0		16.33	16.53	16.97	17.04	17.26	16.51	19.71	19.92	19.76		
20	1	1	16-QAM	17.41	17.58	17.95	18.11	18.36	17.61	20.78	21.00	20.79	27.20	0.5248
20	1	1	64-QAM	15.72	15.87	16.57	16.57	17.01	15.89	19.18	19.49	19.25		
20	1	1	256-QAM	13.13	13.35	13.69	13.62	13.93	13.31	16.39	16.66	16.51		
Limit	EIRP < 1W			Result									Pass	



Part270 NR n77 Maximum Average Power [dBm], DG = 6.2 dBi														
BW	RB	RB	Mod	Antenna 3			Antenna 4			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
30	1	1	QPSK	18.17	18.05	18.41	18.67	18.75	18.15	21.44	21.42	21.29	27.69	0.5875
30	1	76		18.18	18.10	18.27	18.70	18.78	17.91	21.46	21.46	21.10		
30	39	19		17.98	18.00	18.42	18.72	18.91	18.00	21.38	21.49	21.23		
30	1	0		16.09	16.14	16.31	16.74	16.94	16.30	19.44	19.57	19.32		
30	1	77		16.16	16.11	16.40	16.77	16.95	16.07	19.49	19.56	19.25		
30	78	0		16.47	16.51	16.90	17.20	17.37	16.55	19.86	19.97	19.74		
30	1	1	16-QAM	17.38	17.30	17.84	18.16	18.35	17.54	20.80	20.87	20.70	27.07	0.5093
30	1	1	64-QAM	15.81	15.71	16.32	16.74	16.90	15.94	19.31	19.36	19.14		
30	1	1	256-QAM	13.19	13.37	13.62	13.74	13.91	13.20	16.48	16.66	16.43		
Limit	EIRP < 1W			Result									Pass	

Part270 NR n77 Maximum Average Power [dBm], DG = 6.2 dBi														
BW	RB	RB	Mod	Antenna 3			Antenna 4			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
40	1	1	QPSK	17.93	18.12	18.30	18.72	18.91	18.08	21.35	21.54	21.20	27.74	0.5943
40	1	104		18.00	18.13	18.45	18.98	18.65	18.03	21.53	21.41	21.26		
40	53	26		17.94	17.87	18.42	18.64	18.85	18.10	21.31	21.40	21.27		
40	1	0		15.91	16.13	16.28	16.78	16.96	16.26	19.38	19.58	19.28		
40	1	105		15.96	16.07	16.50	16.98	16.81	16.03	19.51	19.47	19.28		
40	106	0		16.42	16.45	16.91	17.17	17.38	16.62	19.82	19.95	19.78		
40	1	1	16-QAM	17.38	17.52	17.81	18.12	18.33	17.61	20.78	20.95	20.72	27.15	0.5188
40	1	1	64-QAM	15.87	15.86	16.27	16.51	16.88	15.96	19.21	19.41	19.13		
40	1	1	256-QAM	13.10	13.25	13.50	13.75	13.96	13.18	16.45	16.63	16.35		
Limit	EIRP < 1W			Result									Pass	



Part270 NR n77 Maximum Average Power [dBm], DG = 6.2 dBi														
BW	RB	RB	Mod	Antenna 3			Antenna 4			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
50	1	1	QPSK	17.79	17.84	18.04	18.56	18.75	18.17	21.20	21.33	21.12	27.64	0.5808
50	1	131		17.64	17.88	18.46	18.70	18.56	17.83	21.21	21.24	21.17		
50	67	33		17.88	17.96	18.33	18.59	18.86	18.01	21.26	21.44	21.18		
50	1	0		15.76	15.80	16.11	16.73	16.80	16.19	19.28	19.34	19.16		
50	1	132		15.67	15.95	16.48	16.77	16.65	15.82	19.27	19.32	19.17		
50	133	0		16.33	16.38	16.79	17.09	17.31	16.53	19.74	19.88	19.67		
50	1	1	16-QAM	17.28	17.09	17.40	17.97	18.14	17.54	20.65	20.66	20.48	26.86	0.4853
50	1	1	64-QAM	15.67	15.60	15.83	16.42	16.67	16.04	19.07	19.18	18.95		
50	1	1	256-QAM	12.96	13.09	13.26	13.60	13.67	13.07	16.30	16.40	16.18		
Limit	EIRP < 1W			Result									Pass	

Part270 NR n77 Maximum Average Power [dBm], DG = 6.2 dBi														
BW	RB	RB	Mod	Antenna 3			Antenna 4			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
60	1	1	QPSK	17.83	17.87	17.92	18.56	18.72	18.05	21.22	21.33	21.00	27.58	0.5728
60	1	160		17.69	17.92	18.17	18.42	18.38	17.79	21.08	21.17	20.99		
60	81	40		17.80	17.90	18.22	18.62	18.79	17.96	21.24	21.38	21.10		
60	1	0		15.85	15.82	15.89	16.67	16.73	16.30	19.29	19.31	19.11		
60	1	161		15.68	15.98	16.18	16.50	16.53	15.85	19.12	19.27	19.03		
60	162	0		16.32	16.34	16.65	17.09	17.19	16.47	19.73	19.80	19.57		
60	1	1	16-QAM	17.25	17.16	17.47	18.07	18.15	17.54	20.69	20.69	20.52	26.89	0.4887
60	1	1	64-QAM	15.51	15.60	15.85	16.62	16.75	16.01	19.11	19.22	18.94		
60	1	1	256-QAM	12.91	13.03	13.15	13.63	13.71	13.03	16.30	16.39	16.10		
Limit	EIRP < 1W			Result									Pass	



Part270 NR n77 Maximum Average Power [dBm], DG = 6.2 dBi														
BW	RB	RB	Mod	Antenna 3			Antenna 4			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
70	1	1	QPSK	17.92	17.84	18.03	18.65	18.78	18.15	21.31	21.35	21.10	27.64	0.5808
70	1	187		17.82	18.00	18.28	18.40	18.42	17.79	21.13	21.23	21.05		
70	95	47		18.03	17.96	18.23	18.65	18.86	18.08	21.36	21.44	21.17		
70	1	0		15.94	15.81	16.16	16.75	16.88	16.31	19.37	19.39	19.25		
70	1	188		15.87	15.94	16.35	16.60	16.46	15.81	19.26	19.22	19.10		
70	189	0		16.57	16.42	16.70	17.16	17.34	16.57	19.89	19.91	19.65		
70	1	1	16-QAM	17.34	17.21	17.44	18.17	18.33	17.66	20.79	20.82	20.56	27.02	0.5035
70	1	1	64-QAM	15.65	15.62	15.80	16.75	16.88	16.36	19.25	19.31	19.10		
70	1	1	256-QAM	12.95	12.92	13.17	13.63	13.88	13.27	16.31	16.44	16.23		
Limit	EIRP < 1W			Result									Pass	

Part270 NR n77 Maximum Average Power [dBm], DG = 6.2 dBi														
BW	RB	RB	Mod	Antenna 3			Antenna 4			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
80	1	1	QPSK	17.82	17.73	17.94	18.72	18.94	18.39	21.30	21.39	21.18	27.61	0.5768
80	1	215		17.74	17.93	18.21	18.47	18.43	17.53	21.13	21.20	20.89		
80	109	54		17.88	17.98	18.25	18.82	18.79	18.05	21.39	21.41	21.16		
80	1	0		16.00	15.79	16.08	16.74	17.00	16.46	19.40	19.45	19.28		
80	1	216		15.82	15.87	16.28	16.41	16.57	15.69	19.14	19.24	19.01		
80	217	0		16.52	16.36	16.70	17.06	17.30	16.62	19.81	19.87	19.67		
80	1	1	16-QAM	17.39	17.28	17.41	18.22	18.33	17.92	20.84	20.85	20.68	27.05	0.5070
80	1	1	64-QAM	15.64	15.68	15.73	16.77	16.69	16.50	19.25	19.22	19.14		
80	1	1	256-QAM	12.98	13.03	13.17	13.73	13.91	13.44	16.38	16.50	16.32		
Limit	EIRP < 1W			Result									Pass	



Part270 NR n77 Maximum Average Power [dBm], DG = 6.2 dBi														
BW	RB	RB	Mod	Antenna 3			Antenna 4			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
90	1	1	QPSK	17.90	17.94	18.12	18.85	18.96	18.75	21.41	21.49	21.46	27.69	0.5875
90	1	243		17.66	18.09	18.38	18.73	18.42	17.68	21.24	21.27	21.05		
90	123	61		17.94	17.98	18.22	18.68	18.82	18.15	21.34	21.43	21.20		
90	1	0		15.94	15.99	16.09	16.87	17.04	16.59	19.44	19.56	19.36		
90	1	244		15.83	16.03	16.34	16.68	16.50	15.84	19.29	19.28	19.11		
90	245	0		16.37	16.36	16.80	17.16	17.32	16.51	19.79	19.88	19.67		
90	1	1	16-QAM	17.36	17.31	17.48	18.25	18.39	17.88	20.84	20.89	20.69	27.09	0.5117
90	1	1	64-QAM	15.95	15.67	15.85	16.56	17.02	16.52	19.28	19.41	19.21		
90	1	1	256-QAM	13.01	12.95	13.30	13.76	13.99	13.43	16.41	16.51	16.38		
Limit	EIRP < 1W			Result									Pass	

Part270 NR n77 Maximum Average Power [dBm], DG = 6.2 dBi														
BW	RB	RB	Mod	Antenna 3			Antenna 4			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
100	1	1	QPSK	17.90	17.81	18.10	18.74	18.77	18.52	21.35	21.33	21.33	27.63	0.5794
100	1	271		17.79	18.16	18.63	18.46	18.36	17.78	21.15	21.27	21.24		
100	137	68		17.89	17.92	18.18	18.72	18.87	18.04	21.34	21.43	21.12		
100	1	0		15.98	15.89	16.10	16.78	16.94	16.68	19.41	19.46	19.41		
100	1	272		15.71	16.10	16.49	16.57	16.57	15.95	19.17	19.35	19.24		
100	273	0		16.41	16.43	16.64	17.22	17.36	16.61	19.84	19.93	19.64		
100	1	1	16-QAM	17.32	17.20	17.48	18.29	18.29	18.03	20.84	20.79	20.77	27.04	0.5058
100	1	1	64-QAM	15.67	15.60	15.80	16.81	16.95	16.67	19.29	19.34	19.27		
100	1	1	256-QAM	13.03	12.98	13.08	13.71	13.80	13.62	16.39	16.42	16.37		
Limit	EIRP < 1W			Result									Pass	



Appendix B. Test Results of Radiated Test

B1. Summary of each worse mode

Mode	Part	Band	Ch	Freq (MHz)	Level (dBm)	Det	Ant Factor (dB)	AmplCbl (dB)	Filter (dB)	EIRPCF (dB)	Reading (dBuV)	Limit (dBm)	Margin (dB)	Pol	Ant
4	Part 22H	ENDC Band 2A_N5A	M	2482.77	-43.83	RMS	27.73	-26.37	0.22	-95.23	49.82	-13.00	-30.83	V	External sharkfin antenna, North America 5G L1/L5 + XM
3	Part 24E	ENDC Band 14A_N2A	M	5586	-46.86	RMS	32.75	-22.12	0.50	-95.23	37.24	-13.00	-33.86	V	External sharkfin antenna, North America 5G L1/L5 + XM
4	Part 24E	NR SA n25	M	5641	-44.65	RMS	32.95	-22.11	0.49	-95.23	39.25	-13.00	-31.65	V	External sharkfin antenna, North America 5G L1/L5 + XM
1	Part 27O	ENDC Band 14A_N77A (HPUE)	M	9519	-37.44	RMS	38.06	-18.09	0.49	-95.23	37.33	-13.00	-24.44	V	Internal Antenna
2	Part 27O	NR SA n77 (HPUE)	H	15576	-41.53	RMS	38.20	-15.84	0.20	-95.23	31.14	-13.00	-28.53	H	Internal Antenna
3	Part 27O	NR SA n77	L	14804	-40.27	RMS	40.38	-16.12	0.06	-95.23	30.64	-13.00	-27.27	H	Internal Antenna
2	Part 27N	NR SA n71	M	2686	-59.82	RMS	28.24	-26.08	0.22	-95.23	33.03	-13.00	-46.82	V	External Front Fender Antenna
3	Part 27M	NR SA n41 (HPUE)	H	10446	-43.94	RMS	38.40	-17.94	0.57	-95.23	30.26	-25.00	-18.94	V	External Front Fender Antenna
4	Part 27M	NR SA n41 (MIMO)	M	10336	-44.50	RMS	38.44	-17.98	0.57	-95.23	29.70	-25.00	-19.50	V	External Front Fender Antenna

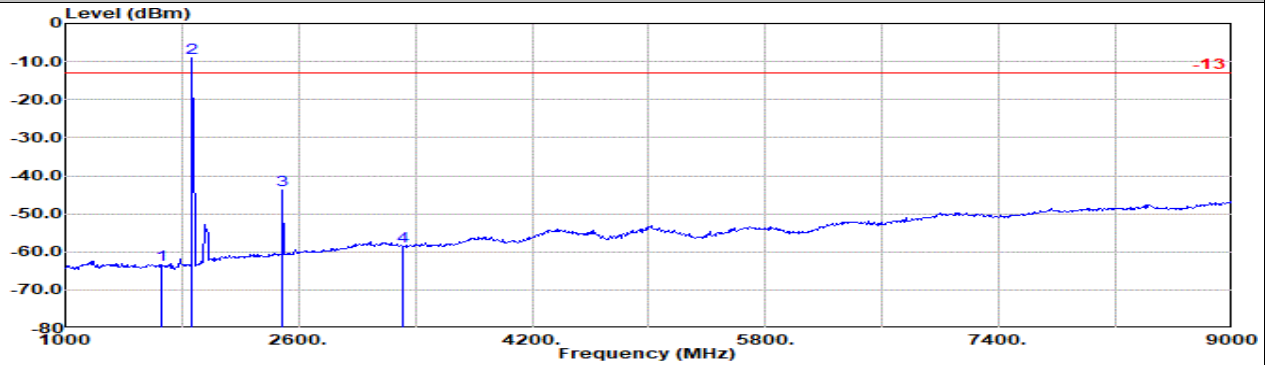


External sharkfin antenna, North America 5G L1/L5 + XM

Part 22H Mode 4

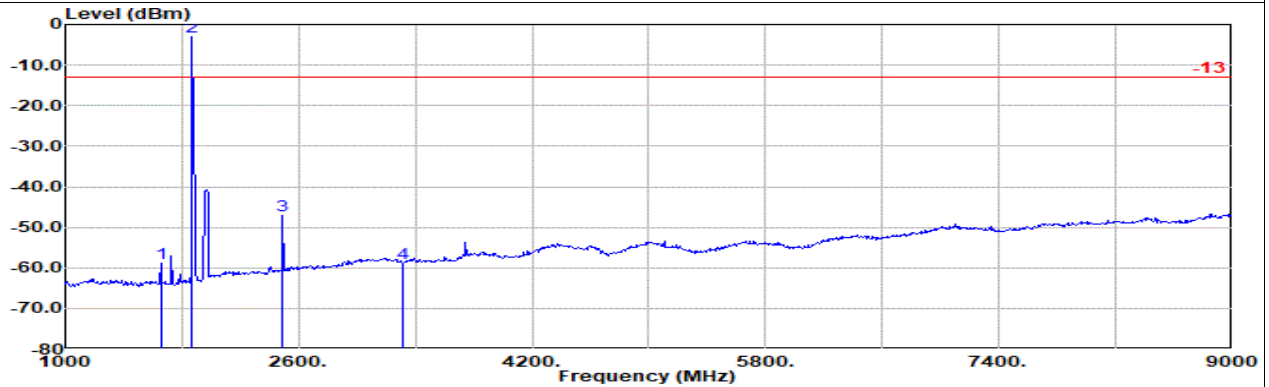
LTE Band 2 20M Ch18900 1RB0 QPSK + NR SA n5 20M Ch167300 1RB0 QPSK

M



Site : 03CH11-HY
Condition: -13 3m 9120D_02038_240729 Horizontal
: LTE B2 20M Ch18900 1RB0 QPSK
: 5GNR n5 20M Ch167300 1RB1 QPSK
: #2 is fundamental signal which can be ignored.

	Freq	Level	Detector	Ant	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
	MHz	dBm		Factor	1			g			
1	1655.18	-63.45	RMS	25.10	-28.40	0.35	-95.23	34.73	-13.00	-50.45	Horizontal
2	1872.00	-8.97	RMS	25.60	-27.60	0.15	-95.23	88.11	-13.00	4.03	Horizontal
3	2482.77	-43.83	RMS	27.73	-26.37	0.22	-95.23	49.82	-13.00	-30.83	Horizontal
4	3310.36	-58.56	RMS	29.52	-25.08	0.25	-95.23	31.98	-13.00	-45.56	Horizontal



Site : 03CH11-HY
Condition: -13 3m 9120D_02038_240729 Vertical
: LTE B2 20M Ch18900 1RB0 QPSK
: 5GNR n5 20M Ch167300 1RB1 QPSK
: #2 is fundamental signal which can be ignored.

	Freq	Level	Detector	Ant	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
	MHz	dBm		Factor	1			g			
1	1655.18	-58.91	RMS	25.10	-28.40	0.35	-95.23	39.27	-13.00	-45.91	Vertical
2	1872.00	-3.14	RMS	25.60	-27.60	0.15	-95.23	93.94	-13.00	9.86	Vertical
3	2482.77	-47.05	RMS	27.73	-26.37	0.22	-95.23	46.60	-13.00	-34.05	Vertical
4	3310.36	-58.75	RMS	29.52	-25.08	0.25	-95.23	31.79	-13.00	-45.75	Vertical

Remark: #2s fundamental signal which can be ignored.

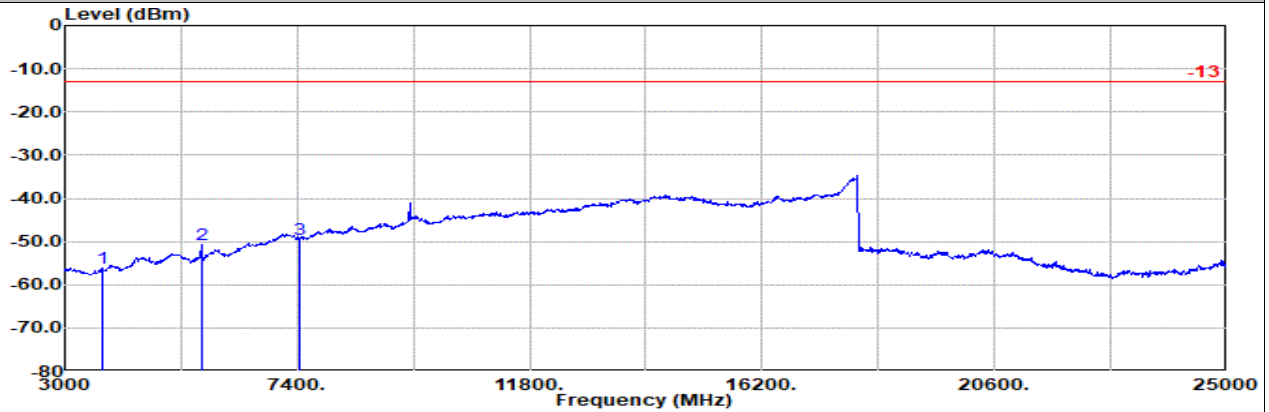


External sharkfin antenna, North America 5G L1/L5 + XM

Part 24E Mode 3

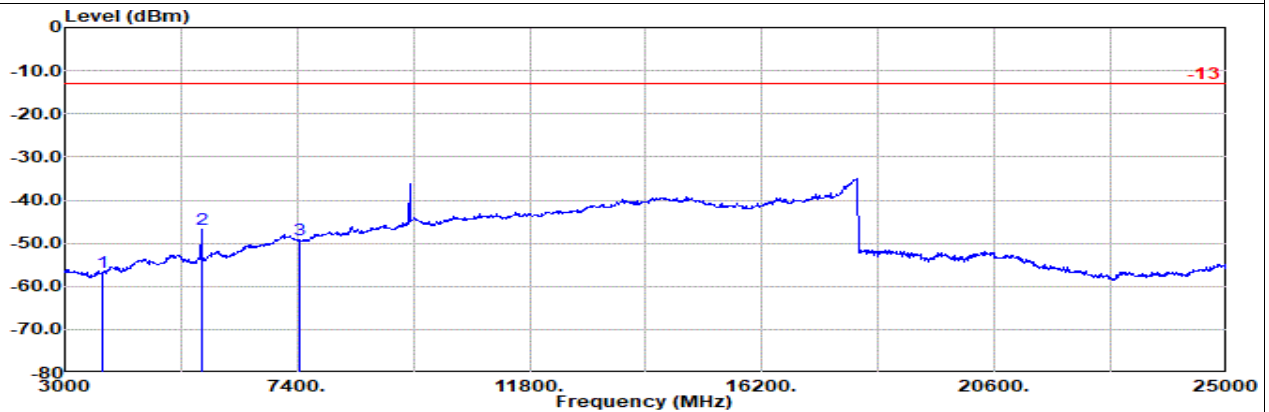
LTE Band 14 10M Ch23330 1RB0 QPSK + NR SA n2 20M Ch376000 1RB0 QPSK

M



Site : 03CH11-HY
Condition: -13 1m SHF_1224_240624 Horizontal
: LTE B14 10M Ch23330 1RB0 QPSK
: NR n2 20M Ch376000 1RB0 QPSK

	Freq Level		Detector	Ant Amp\Cb Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		Factor	1			dBuV	dBm		
1	3724.18	-56.25	RMS	29.85	-24.36	0.73	-95.23	32.76	-13.00	-43.25	Horizontal
2	5586.27	-50.85	RMS	32.75	-22.12	0.50	-95.23	33.25	-13.00	-37.85	Horizontal
3	7448.36	-49.38	RMS	36.30	-20.84	0.62	-95.23	29.77	-13.00	-36.38	Horizontal



Site : 03CH11-HY
Condition: -13 1m SHF_1224_240624 Vertical
: LTE B14 10M Ch23330 1RB0 QPSK
: NR n2 20M Ch376000 1RB0 QPSK

	Freq Level		Detector	Ant Amp\Cb Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		Factor	1			dBuV	dBm		
1	3724.18	-56.62	RMS	29.85	-24.36	0.73	-95.23	32.39	-13.00	-43.62	Vertical
2	5586.27	-46.86	RMS	32.75	-22.12	0.50	-95.23	37.24	-13.00	-33.86	Vertical
3	7448.36	-49.31	RMS	36.30	-20.84	0.62	-95.23	29.84	-13.00	-36.31	Vertical

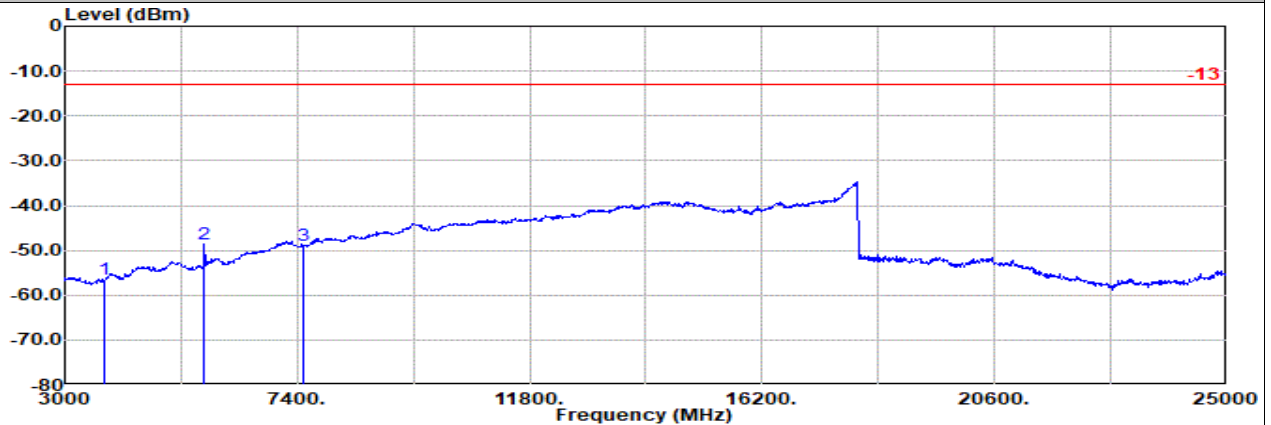


External sharkfin antenna, North America 5G L1/L5 + XM

Part 24E Mode 4

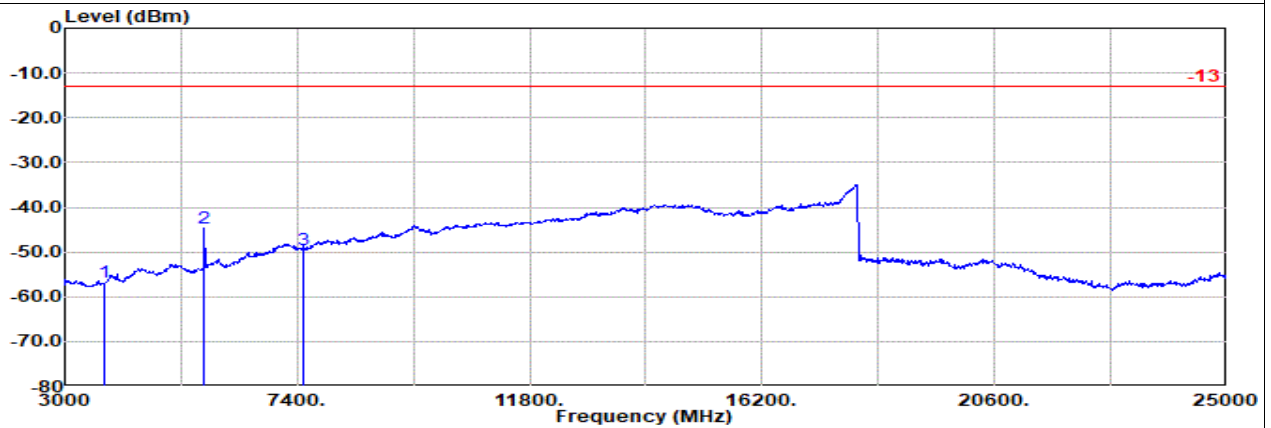
NR SA n25 5M Ch376500 1RB0 QPSK

M



Site : 03CH11-HY
Condition: -13 1m SHF_1224_240624 Horizontal
: 5GNR n25 5M Ch376500 1RB0 BPSK

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1		g			
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB
1	3760.68	-56.39	RMS	30.09	-24.25	0.69	-95.23	32.31	-13.00	-43.39 Horizontal
2	5641.02	-48.56	RMS	32.95	-22.11	0.49	-95.23	35.34	-13.00	-35.56 Horizontal
3	7521.36	-48.94	RMS	36.11	-20.71	0.58	-95.23	30.31	-13.00	-35.94 Horizontal



Site : 03CH11-HY
Condition: -13 1m SHF_1224_240624 Vertical
: 5GNR n25 5M Ch376500 1RB0 BPSK

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1		g			
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB
1	3760.68	-56.67	RMS	30.09	-24.25	0.69	-95.23	32.03	-13.00	-43.67 Vertical
2	5641.02	-44.65	RMS	32.95	-22.11	0.49	-95.23	39.25	-13.00	-31.65 Vertical
3	7521.36	-49.46	RMS	36.11	-20.71	0.58	-95.23	29.79	-13.00	-36.46 Vertical

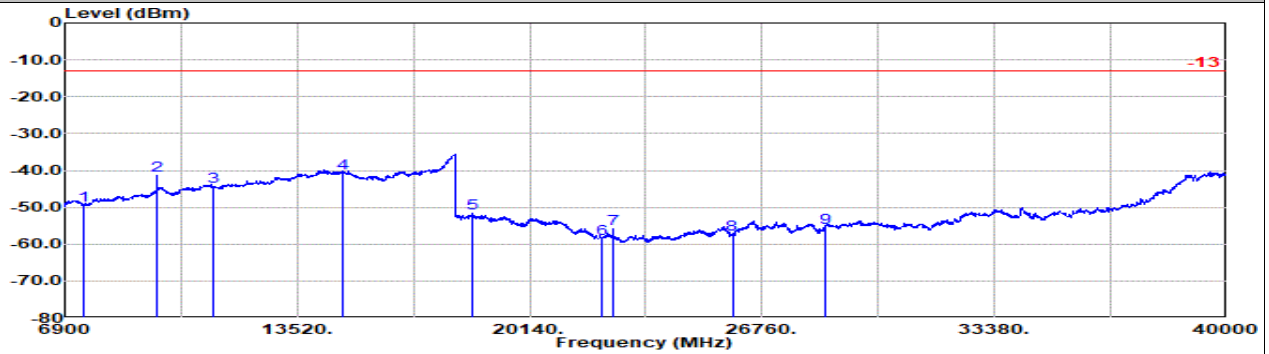


Internal Antenna

Part 270 Mode 1

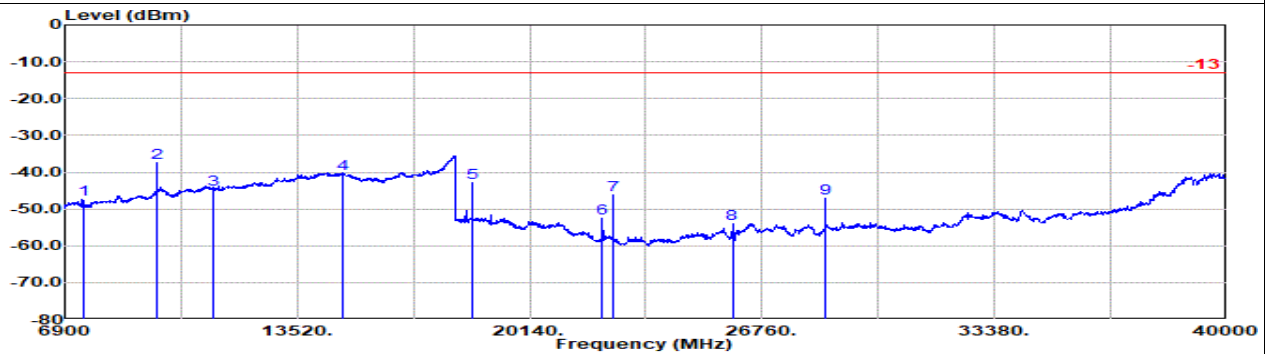
LTE Band 14 10M Ch23330 1RB0 QPSK + NR SA n77 HPUE 100M Ch650000 1RB0 QPSK

M



Site : 03CH11-HY
Condition: -13 1m SHF_1224_240624 Horizontal
: LTE B14 10M Ch23330 1RB0 QPSK
: NR n77 100M Ch650000 1RB0 QPSK

Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
MHz	dBm									
1	7410.60	-49.55 RMS	36.30	-20.91	0.93	-95.23	29.36	-13.00	-36.55	Horizontal
2	9519.60	-41.47 RMS	38.06	-18.09	0.49	-95.23	33.30	-13.00	-28.47	Horizontal
3	11115.00	-44.36 RMS	38.60	-17.95	0.29	-95.23	29.93	-13.00	-31.36	Horizontal
4	14820.00	-40.88 RMS	40.32	-16.10	0.07	-95.23	30.06	-13.00	-27.88	Horizontal
5	18512.00	-51.57 RMS	38.00	-29.91	-9.54	-95.23	45.11	-13.00	-38.57	Horizontal
6	22208.00	-58.47 RMS	37.95	-26.92	-9.54	-95.23	35.27	-13.00	-45.47	Horizontal
7	22504.00	-55.96 RMS	38.31	-26.67	-9.54	-95.23	37.17	-13.00	-42.96	Horizontal
8	25912.00	-57.32 RMS	39.30	-24.55	-9.54	-95.23	32.70	-13.00	-44.32	Horizontal
9	28548.00	-55.54 RMS	40.00	-23.79	-9.54	-95.23	33.02	-13.00	-42.54	Horizontal



Site : 03CH11-HY
Condition: -13 1m SHF_1224_240624 Vertical
: LTE B14 10M Ch23330 1RB0 QPSK
: NR n77 100M Ch650000 1RB0 QPSK

Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
MHz	dBm									
1	7410.60	-47.40 RMS	36.30	-20.91	0.93	-95.23	31.51	-13.00	-34.40	Vertical
2	9519.60	-37.44 RMS	38.06	-18.09	0.49	-95.23	37.33	-13.00	-24.44	Vertical
3	11115.00	-44.56 RMS	38.60	-17.95	0.29	-95.23	29.73	-13.00	-31.56	Vertical
4	14820.00	-40.43 RMS	40.32	-16.10	0.07	-95.23	30.51	-13.00	-27.43	Vertical
5	18512.00	-42.96 RMS	38.00	-29.91	-9.54	-95.23	53.72	-13.00	-29.96	Vertical
6	22208.00	-52.47 RMS	37.95	-26.92	-9.54	-95.23	41.27	-13.00	-39.47	Vertical
7	22504.00	-46.13 RMS	38.31	-26.67	-9.54	-95.23	47.00	-13.00	-33.13	Vertical
8	25912.00	-54.11 RMS	39.30	-24.55	-9.54	-95.23	35.91	-13.00	-41.11	Vertical
9	28548.00	-47.11 RMS	40.00	-23.79	-9.54	-95.23	41.45	-13.00	-34.11	Vertical

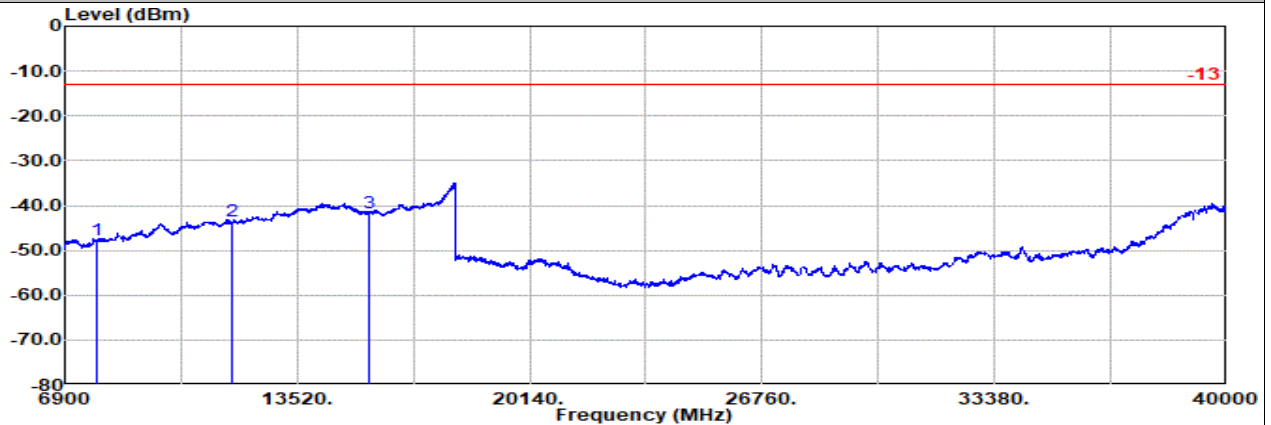


Internal Antenna

Part 270 Mode 2

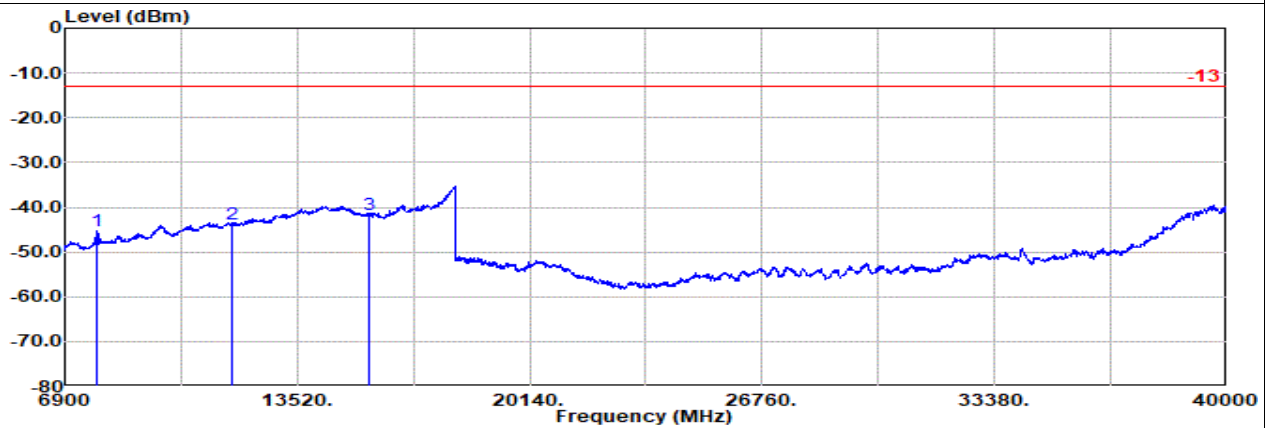
NR SA n77 HPUE 90M Ch662332 1RB0 QPSK

H



Site : 03CH11-HY
Condition: -13 1m SHF_1224_240624 Horizontal
: NR n77 90M Ch662332 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter	EIRPCF	Readin	Limit	Margin		Pol
					dB/m	dB							
	MHz	dBm					dB	dB	dBuV	dBm	dB		
1	7788.00	-47.61	RMS	36.65	-20.58	0.71	-95.23	30.84	-13.00	-34.61	Horizontal		
2	11682.00	-43.56	RMS	38.56	-17.77	0.30	-95.23	30.58	-13.00	-30.56	Horizontal		
3	15576.00	-41.53	RMS	38.20	-15.84	0.20	-95.23	31.14	-13.00	-28.53	Horizontal		



Site : 03CH11-HY
Condition: -13 1m SHF_1224_240624 Vertical
: NR n77 90M Ch662332 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter	EIRPCF	Readin	Limit	Margin		Pol
					dB/m	dB							
	MHz	dBm					dB	dB	dBuV	dBm	dB		
1	7788.00	-45.15	RMS	36.65	-20.58	0.71	-95.23	33.30	-13.00	-32.15	Vertical		
2	11682.00	-43.73	RMS	38.56	-17.77	0.30	-95.23	30.41	-13.00	-30.73	Vertical		
3	15576.00	-41.54	RMS	38.20	-15.84	0.20	-95.23	31.13	-13.00	-28.54	Vertical		

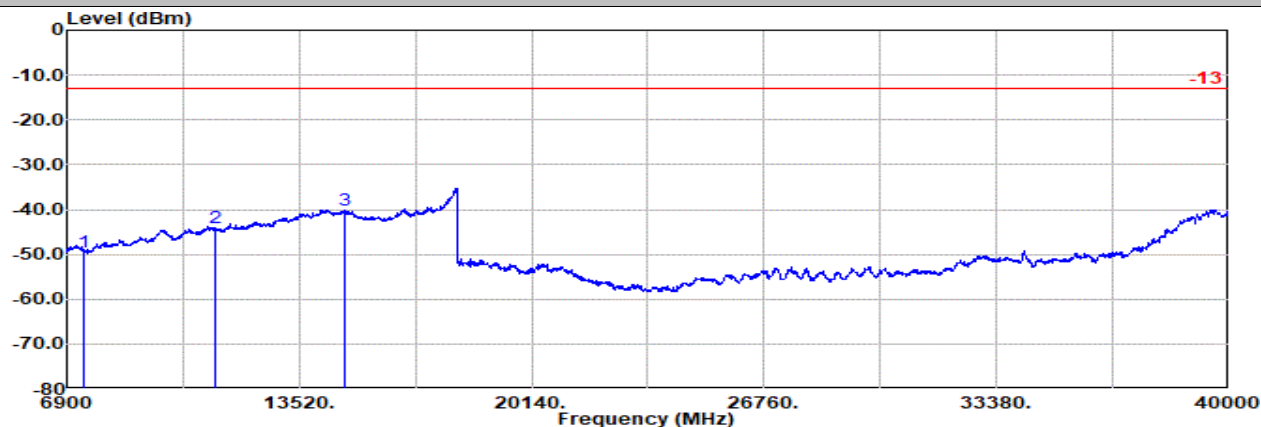


Internal Antenna

Part 270 Mode 3

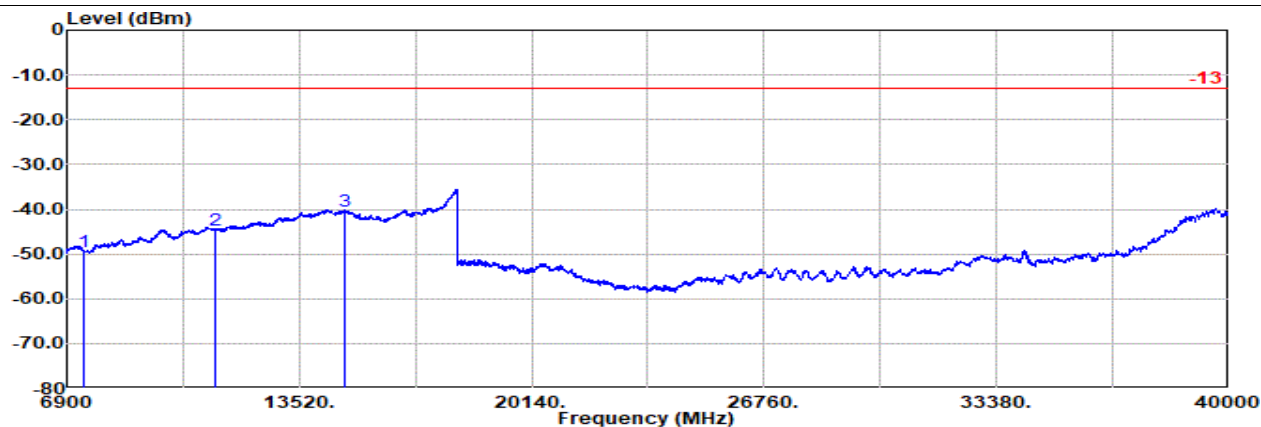
NR SA n77 100M Ch650000 1RB0 QPSK

L



Site : 03CH11-HY
Condition: -13 1m SHF_1224_240624 Horizontal
: NR n77 100M Ch650000 1RB0 QPSK

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB
1	7402.00	-49.63	RMS	36.30	-20.92	0.94	-95.23	29.28	-13.00	-36.63 Horizontal
2	11103.00	-44.21	RMS	38.60	-17.95	0.29	-95.23	30.08	-13.00	-31.21 Horizontal
3	14804.00	-40.27	RMS	40.38	-16.12	0.06	-95.23	30.64	-13.00	-27.27 Horizontal



Site : 03CH11-HY
Condition: -13 1m SHF_1224_240624 Vertical
: NR n77 100M Ch650000 1RB0 QPSK

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB
1	7402.00	-49.44	RMS	36.30	-20.92	0.94	-95.23	29.47	-13.00	-36.44 Vertical
2	11103.00	-44.54	RMS	38.60	-17.95	0.29	-95.23	29.75	-13.00	-31.54 Vertical
3	14804.00	-40.58	RMS	40.38	-16.12	0.06	-95.23	30.33	-13.00	-27.58 Vertical

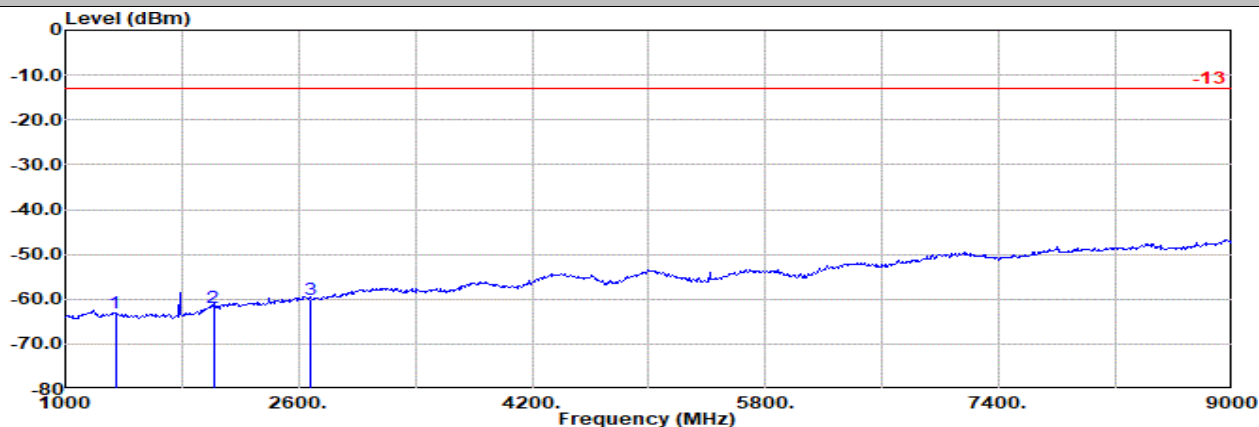


External Front Fender Antenna

Part 27N Mode 2

NR SA n71 20M Ch136100 1RB0 QPSK

M

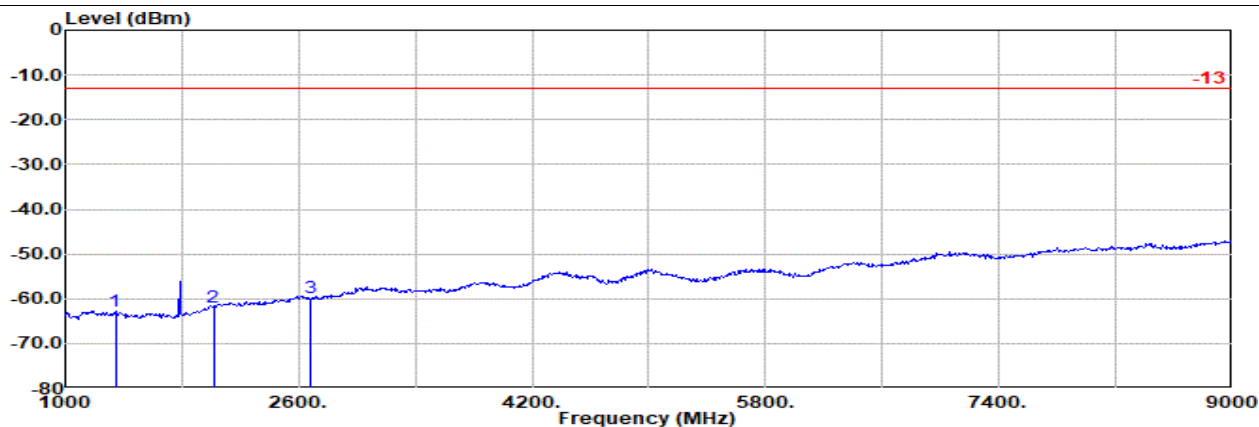


Site : 03CH11-HY

Condition: -13 3m 9120D_02038_240729 Horizontal

: 5GNR n71 20M Ch136100 1RB0 QPSK

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB
1	1343.00	-63.11	RMS	25.80	-29.88	0.68	-95.23	35.52	-13.00	-50.11 Horizontal
2	2015.00	-62.01	RMS	26.70	-26.90	0.06	-95.23	33.36	-13.00	-49.01 Horizontal
3	2686.00	-59.94	RMS	28.24	-26.08	0.22	-95.23	32.91	-13.00	-46.94 Horizontal



Site : 03CH11-HY

Condition: -13 3m 9120D_02038_240729 Vertical

: 5GNR n71 20M Ch136100 1RB0 QPSK

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB
1	1343.00	-62.86	RMS	25.80	-29.88	0.68	-95.23	35.77	-13.00	-49.86 Vertical
2	2015.00	-61.89	RMS	26.70	-26.90	0.06	-95.23	33.48	-13.00	-48.89 Vertical
3	2686.00	-59.82	RMS	28.24	-26.08	0.22	-95.23	33.03	-13.00	-46.82 Vertical

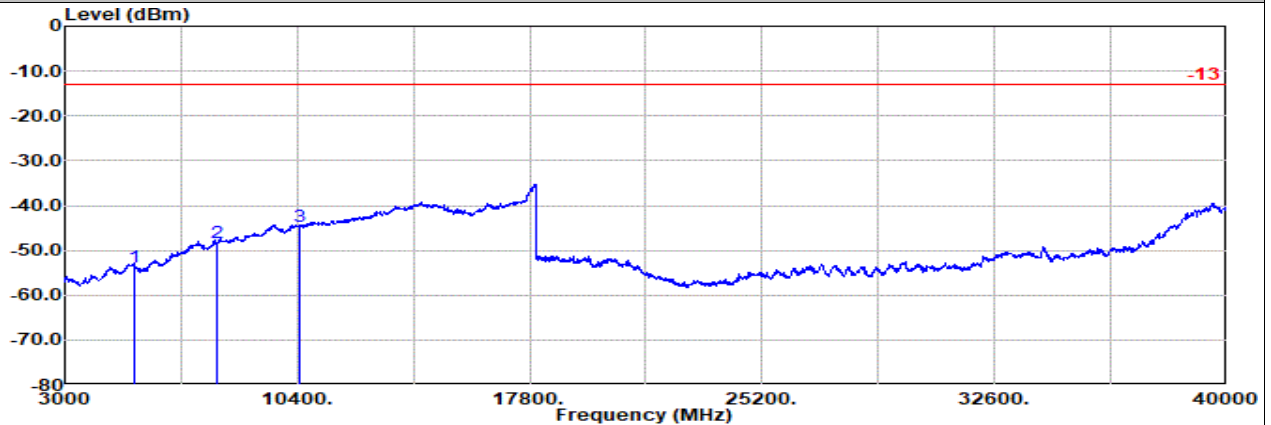


External Front Fender Antenna

Part 27M Mode 3

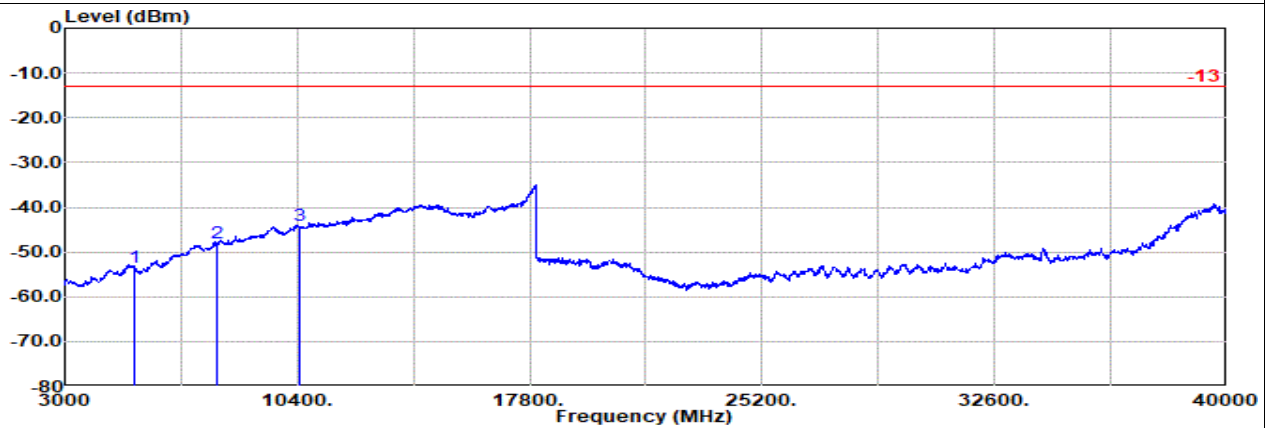
NR SA n41 HPUE 80M Ch529998 1RB0 QPSK

H



Site : 03CH11-HY
Condition: -13 1m SHF_1224_240624 Horizontal
: NR n41 HPUE 80M Ch529998 1RB0 QPSK

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB
1	5223.00	-53.71	RMS	33.05	-22.44	0.52	-95.23	30.39	-25.00	-28.71 Horizontal
2	7835.00	-48.32	RMS	36.77	-20.57	0.56	-95.23	30.15	-25.00	-23.32 Horizontal
3	10446.00	-44.59	RMS	38.40	-17.94	0.57	-95.23	29.61	-25.00	-19.59 Horizontal



Site : 03CH11-HY
Condition: -13 1m SHF_1224_240624 Vertical
: NR n41 HPUE 80M Ch529998 1RB0 QPSK

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB
1	5223.00	-53.58	RMS	33.05	-22.44	0.52	-95.23	30.52	-25.00	-28.58 Vertical
2	7835.00	-48.09	RMS	36.77	-20.57	0.56	-95.23	30.38	-25.00	-23.09 Vertical
3	10446.00	-43.94	RMS	38.40	-17.94	0.57	-95.23	30.26	-25.00	-18.94 Vertical

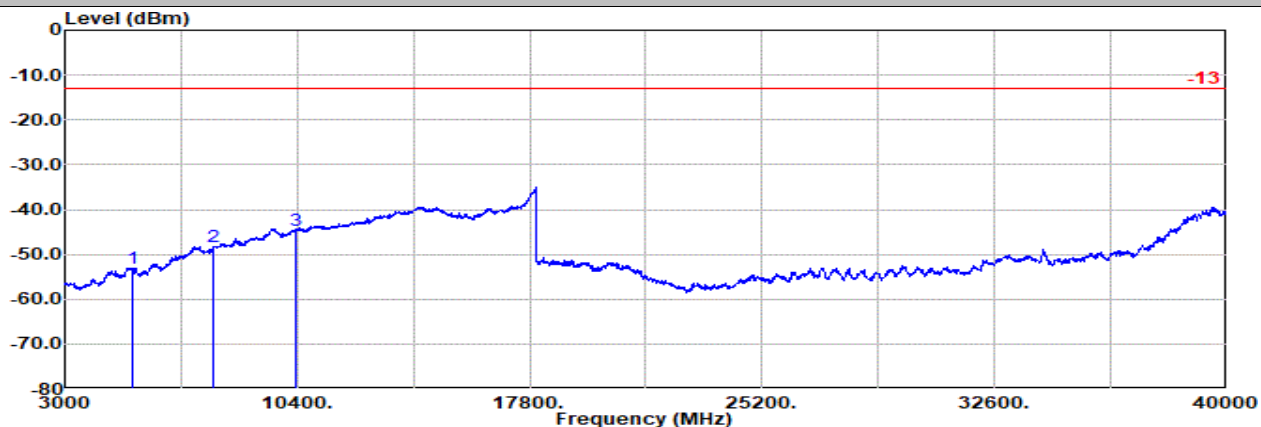


External Front Fender Antenna

Part 27M Mode 4

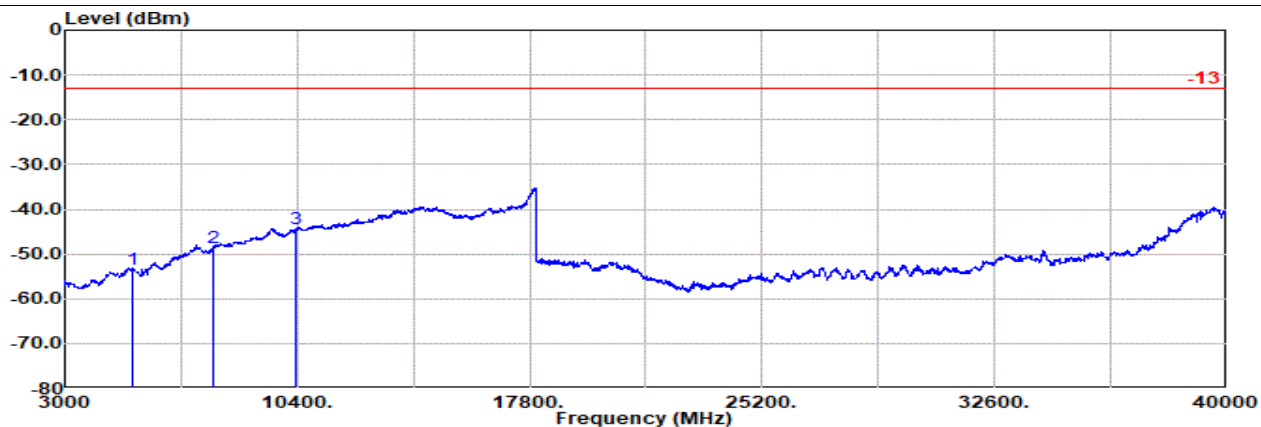
NR SA n41 MIMO 20M Ch518598 1RB0 QPSK

M



Site : 03CH11-HY
Condition: -13 1m SHF_1224_240624 Horizontal
: NR n41 20M Ch518598 1RB0 QPSK

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm								
1	5168.00	-53.18	RMS	33.10	-22.48	0.51	-95.23	30.92	-25.00	-28.18 Horizontal
2	7752.00	-48.20	RMS	36.51	-20.58	0.56	-95.23	30.54	-25.00	-23.20 Horizontal
3	10336.00	-44.72	RMS	38.44	-17.98	0.57	-95.23	29.48	-25.00	-19.72 Horizontal



Site : 03CH11-HY
Condition: -13 1m SHF_1224_240624 Vertical
: NR n41 20M Ch518598 1RB0 QPSK

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm								
1	5168.00	-53.38	RMS	33.10	-22.48	0.51	-95.23	30.72	-25.00	-28.38 Vertical
2	7752.00	-48.52	RMS	36.51	-20.58	0.56	-95.23	30.22	-25.00	-23.52 Vertical
3	10336.00	-44.50	RMS	38.44	-17.98	0.57	-95.23	29.70	-25.00	-19.50 Vertical

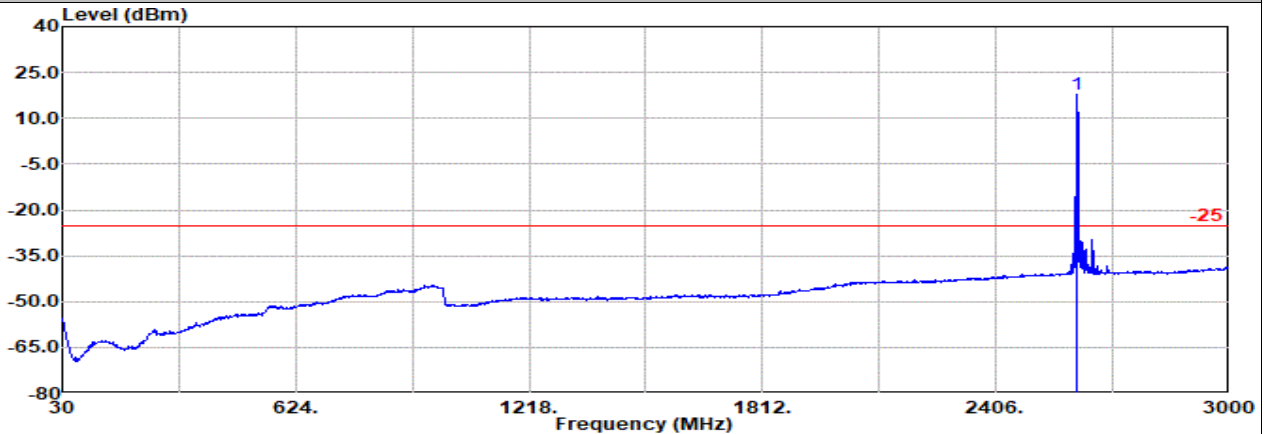


External Front Fender Antenna

Part 27M Mode 3

NR SA n41 HPUE 80M Ch529998 1RB0 QPSK

H



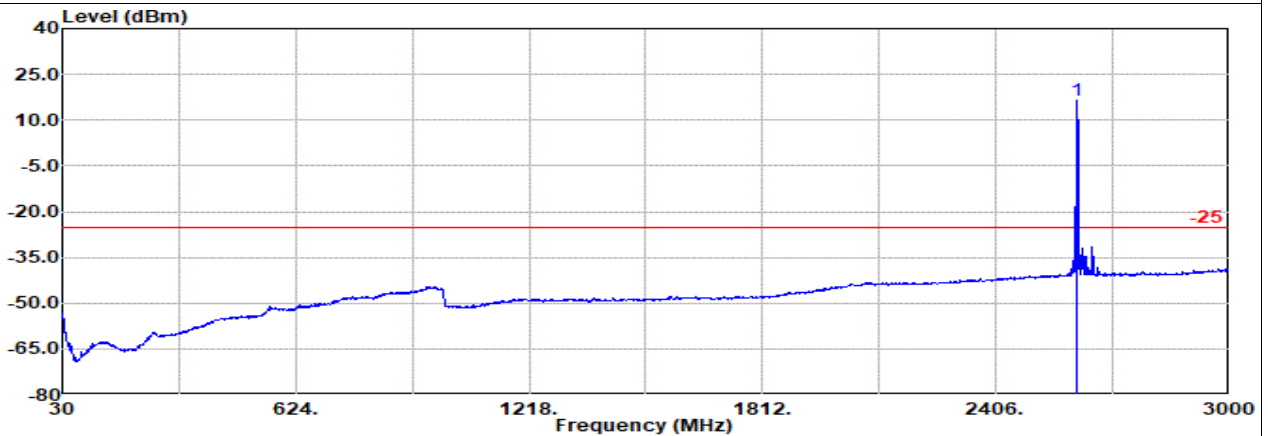
Site : 03CH11-HY

Condition: -25 3m 9120D_02038_240729 Horizontal

: NR n41 HPUE 80M Ch529998 1RB0 QPSK

: #1 is fundamental signal which can be ignored.

	Freq	Level	Detector	Ant Factor	Amp\Cb 1	Filter	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	2612.00	18.00	RMS	28.12	7.10	0.00	-95.23	78.01	-25.00	43.00	Horizontal



Site : 03CH11-HY

Condition: -25 3m 9120D_02038_240729 Vertical

: NR n41 HPUE 80M Ch529998 1RB0 QPSK

: #1 is fundamental signal which can be ignored.

	Freq	Level	Detector	Ant Factor	Amp\Cb l	Filter	EIRPCF	Reading	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	2612.00	16.37	RMS	28.12	7.10	0.00	-95.23	76.38	-25.00	41.37	Vertical

Remark: #1 is fundamental signal which can be ignored.