



02 November 2022



# Report On

FCC and ISED Testing of the Ericsson Remote Radio Unit Radio 4480 44B71 4485A C, KRC 161 922/1, NR (700 MHz) Base Station in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 27, ISED RSS-GEN and ISED RSS-130

COMMERCIAL-IN-CONFIDENCE

FCC: TA8AKRC161922 IC: 287AB-AS161922

PREPARED BY APPROVED BY DATED

Maggie Whiting Steve Scarfe
Key Account Manager Authorised Signatory

Document 75955712 Report 09 Issue 1 November-2022



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## **SECTION 1**

# **REPORT INFORMATION**



#### 1.1 REPORT DETAILS

Manufacturer Ericsson

Address Torshamnsgatan 23

Kista SE-16480 Stockholm Sweden

Product Name & Product Number Radio 4480 44B71 4485A C - KRC 161 922/1

IC Model Name AS161922

Serial Number(s) E23C854217

Software Version CXP9013268/15-R92BB

Hardware Version R1B

Test Specification/Issue/Date FCC CFR 47 Part 2: 2021

FCC CFR 47 Part 27: 2021

ISED RSS-GEN: Issue 5: March 2019 Amendment 1, 2021

Amendment 2

ISED RSS-130: Issue 2: 2019

Test Plan MR7602-SP-2E \_Spectrum Sharing with NB-IoT 11 Radios

FCC and ISED\_Rev-F

Start of Test 26-September-2022

Finish of Test 26-September-2022

Name of Engineer(s) Neil Rousell

Related Document(s) KDB 971168 D01 v02r02

KDB 662911 D01 v02r01 ICES-003:Issue 7 (2020-10)

ANSI C63.26-2015

### **ENGINEERING STATEMENT**

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported testing was carried out on a sample equipment to demonstrate compliance with and FCC CFR 47 Part 2: 2021, FCC CFR 47 Part 27: 2021, ISED RSS-GEN: Issue 5: March 2019 Amendment 1, 2021 Amendment 2ISED RSS-130: Issue 2: 2019 The sample tested was found to comply with the requirements defined in the applied rules.

Test Engineer(s);

Neil Rousell



## 1.2 BRIEF SUMMARY OF RESULTS

The tests that have been selected are detailed in the customer Test Plan as defined in section 1.1 of this report. The Test Plan is based on the TÜV SÜD FCC Test Plan Rationale, available on request.

A brief summary of results for each configuration, in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 27, ISED RSS-GEN and ISED RSS-130 is shown below.

	Specificati	on Clause				
Section	FCC CFR 47 Part 2	FCC CFR 47 Part 27	RSS- GEN	ISED RSS-130	Test Description	Result
2.1	2.1046	27.50	-	4.6	Maximum Peak Output Power and Peak to Average Ratio - Conducted	Pass
2.2	2.1049	27.53	-	-	Occupied Bandwidth	Pass
2.3	2.1051	27.53	-	-	Band Edge	Pass
2.4	2.1051	27.53	-	4.7	Transmitter Spurious Emissions	Pass

Testing in this Report covers only B85A NR (700 MHz)

For additional configurations and test cases not contained within this test report, refer to the following reports:

Document 75955712 Report 10 - Radio 4480 44B71 4485A C - NR + NB-IoT



## 1.3 TEST RATIONALE

The tests that have been selected are detailed in the customer Test Plan as defined in section 1.1 of this report. The Test Plan is based on the TÜV SÜD FCC Test Plan Rationale, available on request.



## 1.4 CONFIGURATION DESCRIPTION

Config	Carrier configurations	Carriers	Pout (W)	Position	BW	Freq	NR-ARFCN
	NR in NR/ESS Setup (NB IoT IB) QPSK	1	40	В	5	730.5	146100
	NR in NR/ESS Setup (NB IoT IB) QPSK	1	40	Т	5	742.5	148500
1	NR in NR/ESS Setup (NB IoT IB) QPSK	1	40	В	10	733	146600
'	NR in NR/ESS Setup (NB IoT IB) QPSK	1	40	Т	10	740	148000
	NR in NR/ESS Setup (NB IoT IB) QPSK	1	40	В	15	735.5	147100
	NR in NR/ESS Setup (NB IoT IB) QPSK	1	40	Т	15	737.5	147500



## 1.5 DECLARATION OF BUILD STATUS

Equipment Description						
Technical Description: (Please provide a brief description of the intended equipment including the technologies the production)	Multi-standard remote radio unit Radio 4480 44B71 44B85A C, 4RX/4TX					
Manufacturer:	Ericsson AB					
Model:		Radio 4480 44B71 44B85	5A C			
Part Number:		KRC 161 922/1				
Hardware Version:		R1B				
Software Version:		CXP9013268/15-R92BB				
FCC ID of the product under test		TA8AKRC161922				
IC ID of the product under test		287AB-AS161922				
Intentional Radiators		<u> </u>				
Frequency Range (MHz to MHz) B71 : LTE ,NR, NB-IoT SA, NB-IoT(IB, GB):	TX (DL): 617-652MHz RX (UL):	BW: 35MHz				
,,NIC, ND-101 3A, ND-101 (15, Ob).	663-698MHz	BW: 35MHz				
Frequency Range (MHz to MHz) B85A: LTE ,NR, NB-IoT SA, NB-IoT(IB, GB);	TX (DL): 728- 745MHz RX (UL):	BW: 17MHz				
	698-715MHz	BW: 17MHz				
Conducted Declared Output Power (dBm)	B85A: 46.0 Max output power per Carrier					
. ,	B71: 47.8 Max	3 Max output power per Carrier				
	BW	PWR/Carrier(Max)	PWR/Carrier(Max)			
		LTE	NR			
RAT SC carrier Power (Max) :Band 71	5MHz	40W	40W			
	10MHz	60 W	60 W			
	15MHz	60 W	60 W			
	20MHz	60 W	60 W			
	BW	PWR/Carrier(Max) LTE	PWR/Carrier(Max) NR			
RAT SC carrier Power (Max) :Band 85A	5MHz	40W	40W			
	10MHz	40 W	40 W			
	15MHz	х	40 W			
RAT SC carrier Power (Max) :NB-IoT SA	200kHz	20 W				
Radio Configuration:	4RX / 4TX					
Duplex mode:	FDD					
	Single RAT :LTE, NR, NB-IoT (IB, GB, SA)					
Radio Access Technology, RAT(s):	Multi RAT : LTI	E+ NR; LTE+ NB-IoT SA; N	NR +NB-IoT SA			
	LTE+ NR + NB-IoT SA;					
	NR: 5MHz, 10N	MHz, 15MHz				
Supported Bandwidth(s) (MHz)B85A:	LTE:5MHz, 10MHz					
	NB-IoT(SA): 200 kHz					
	NR: 5MHz, 10N	MHz, 15MHz, 20MHz				
Supported Bandwidth(s) (MHz) B71:		MHz, 15MHz, 20MHz				
	NB-IoT(SA): 20					



Antenna Gain (dBi)  Maximum antenna system gain (including cable loss), GANT (dB) for the tested configurations to comply with maximum radiated output power in SRSF-518 calculated using measured and summed PSD from all 4 Ports  Antenna Impedance(Q)  50  Supported modulation scheme, LTE: QPSK, 16QAM, 64QAM, 256QAM  Supported modulation scheme, NB-IoT: QPSK, 16QAM, 64QAM, 256QAM  Supported modulation scheme, NB-IoT: QPSK NR SCS 15kHz  RF power Tolerance: +0.6/2.0 dB  Frequency Tolerance: ±0.05 ppm  Carrier Aggregation, CA Supported  Maximum supported number of DL NR carrier per port  Anamum supported number of DL NR carrier efe/band in B71 and 5/band in 85A  Maximum supported number of DL NB-IoT carrier per port  Anamum supported number of DL NB-IoT carrier per port  Without optional Fan: 80W  With optional Fan: 100W  Nominal output power per Antenna Port //Multi RAT- Multi carrier  Supported transmission modes: 4X4 MIMO  Unintentional Radiators  Highest frequency generated or used in the device or on which the device operates or tunes if «30MHz Class A Digital Device (Use in residential environment) Class B  DC Power Supply (Delete if Not Applicable)  Nominal voltage: DC power supply -48V  Extreme upper voltage: -36.0V  Extreme lower voltage: -58.5V  Max current: -40°C  Maximum temperature: -40°C  Maximum temperature: -40°C  Maximum temperature: -40°C  Maximum temperature: -41ca Afrah Ali sadiq  Regulatory Approval Engineer  Afrah Ali sadiq  Position held: Regulatory Approval Engineer  Afrah Ali sadiq  Position held: Regulatory Approval Engineer  Afrah Ali sadiq  Position held: -61ca BD -	II							
Supported modulation scheme, LTE: QPSK, 16QAM, 64QAM, 256QAM  Supported modulation scheme, NR: QPSK, 16QAM, 64QAM, 256QAM  Supported modulation scheme, NB-IoT: QPSK  NR SCS 15kHz  RF power Tolerance: +.0.6/-2.0 dB  Frequency Tolerance: 4.0.05 ppm  Carrier Aggregation, CA Supported  Maximum supported number of DL NR carrier per port  Maximum supported number of DL NR carrier per port  Maximum supported number of DL NB-IoT arrier per port  Mominal output power per Antenna Port //Multi RAT - Multi carrier  Supported Transmission modes: 4X4 MIMO  Unintentional Radiators  Highest frequency generated or used in the device or on which the device operates or tunes if +30MHz  Class A Digital Device (Use in residential environment) Class B Digital Device (Use in residential environment)  Class A Digital Device (Use in residential environment)  Extreme upper voltage: -58.5V  Max current: 38A  Temperature  Minimum temperature: 40°C  Maximum temperature: 40°C  Maximum temperature: 40°C  Maximum temperature: Afrah Ali sadiq  Position held: Regulatory Approval Engineer  Email address: 446724650796	Antenna Gain (dBi)	the tested configurations to comply with maximum radiated output power in SRSP-518 calculated using measured and summed PSD						
Supported modulation scheme, NR: QPSK, 16QAM, 64QAM, 256QAM  Supported modulation scheme, NB-IoT: QPSK  NR SCS 15kHz  RF power Tolerance: .+0.6/-2.0 dB  Frequency Tolerance: .±0.05 ppm  Carrier Aggregation, CA Supported Maximum supported number of DL NR carrier per port Maximum supported number of DL NR carrier per port 6/band in B71 and 5/band in 85A  Maximum supported number of DL NB-IoT carrier per port 6/band in B71 and 5/band in 85A  Maximum supported number of DL NB-IoT 2/Band  Nominal output power per Antenna Port /Multi RAT - Multi carrier supported number of DL NB-IoT carrier per port Without optional Fan: 80W  Without potional Fan: 80W  With optional Fan: 100W  Supported transmission modes: 4X4 MIMO  Unintentional Radiators  Highest frequency generated or used in the device or on which the device operates or tunes if +30MHz  Lowest frequency generated or used in the device or on which the device operates or tunes if +30MHz  Class A Digital Device (Use in commercial, industrial or business environment)  Class B Digital Device (Use in residential environment) Class B  DC Power Supply (Delete if Not Applicable)  Nominal voltage: DC power supply -48V  Extreme upper voltage: -36.0V  Extreme lower voltage: -36.0V  Extreme lower voltage: -58.5V  Max current: 38A  Temperature  Minimum temperature: -40°C  Maximum tempera	Antenna Impedance(Ω)	50						
Supported modulation scheme, NB-IoT: QPSK  NR SCS 15kHz  RF power Tolerance: +0.6/-2.0 dB  Frequency Tolerance: ±0.05 ppm  Carrier Aggregation, CA Supported 6/band in 871 and 5/band in 85A  Maximum supported number of DL NR carrier per port 6/band in 871 and 5/band in 85A  Maximum supported number of DL NB-IoT 2/Band  Without optional Fan: 80W  With optional Fan: 100W  Supported transmission modes: 4X4 MIMO  Unintentional Radiators  Highest frequency generated or used in the device or on which the device operates or 1/10 tunes if 430MHz  Class A Digital Device (Use in commercial, industrial or business environment)  Class B Digital Device (Use in residential environme	Supported modulation scheme, LTE:	QPSK, 16QAM, 64QAM, 256QAM						
NR SCS 15kHz  RF power Tolerance: +0.6/-2.0 dB  Frequency Tolerance: ±0.05 ppm  Carrier Aggregation, CA  Maximum supported number of DL NR carrier per port  Maximum supported number of DL NR carrier per port  6/band in B71 and 5/band in 85A  Maximum supported number of DL NB-loT carrier per port  6/band in B71 and 5/band in 85A  Maximum supported number of DL NB-loT carrier per port  6/band in B71 and 5/band in 85A  Without optional Fan: 80W  With optional Fan: 100W  Nominal output power per Antenna Port /Multi RAT - Multi carrier  Supported transmission modes: 4X4 MIMO  Unintentional Radiators  Highest frequency generated or used in the device or on which the device operates or tunes if +300MHz  Class A Digital Device (Use in commercial, industrial or business environment)  Class B Digital Device (Use in residential environment)  Class B Digital Device (Use in residential environment)  Class B Digital Device (Use in residential environment)  Class B Digital Device (Use in Commercial, industrial or business environment)  Class B Digital Device (Use in residential environment)  Class B Digital Device (Use in residenti	Supported modulation scheme, NR:	QPSK, 16QAM, 64QAM, 256QAM						
RF power Tolerance:	Supported modulation scheme, NB-IoT :	QPSK						
Frequency Tolerance: ±0.05 ppm  Carrier Aggregation, CA Supported  Maximum supported number of DL NR carrier per port  Maximum supported number of DL NR carrier per port  Maximum supported number of DL NB-IoT  Carrier per port  Maximum supported number of DL NB-IoT  Carrier per port  Nominal output power per Antenna Port /Multi RAT - Multi carrier  Supported transmission modes: 4X4 MIMO  Unintentional Radiators  Highest frequency generated or used in the device or on which the device operates or tunes if <30MHz  Class A Digital Device (Use in commercial, industrial or business environment)  Class B Digital Device (Use in residential environment)  Class B Digital Device	NR SCS	15kHz						
Carrier Aggregation, CA  Maximum supported number of DL NR carrier per port  Maximum supported number of DL LTE carrier per port  Maximum supported number of DL LTE carrier per port  Maximum supported number of DL NB-IoT carrier per port  Nominal output power per Antenna Port /Multi RAT - Multi carrier  Supported transmission modes:  Unintentional Radiators  Highest frequency generated or used in the device or on which the device operates or tunes if <30MHz  Class A Digital Device (Use in commercial, industrial or business environment)  Class B Digital Device (Use in residential environment)  Class B Digital Devic	RF power Tolerance:	.+0.6/-2.0 dB						
Maximum supported number of DL NR carrier per port  Maximum supported number of DL LTE carrier per port  Maximum supported number of DL NB-IoT carrier per port  Maximum supported number of DL NB-IoT carrier per port  Nominal output power per Antenna Port /Multi RAT - Multi carrier  Supported transmission modes:  Unintentional Radiators  Highest frequency generated or used in the device or on which the device operates or tunes if <30MHz  Lowest frequency generated or used in the device or on which the device operates or tunes if <30MHz  Class A Digital Device (Use in commercial, industrial or business environment)  Class B Digital Device (Use in residential environment)  Class B Do Power Supply (Delete if Not Applicable)  Nominal voltage: DC power supply  Extreme upper voltage:  Extreme lower voltage:  As A Temperature  Minimum temperature:  Minimum temperature:  Aga A Temperature  Minimum temperature:  Afrah Ali sadiq  Position held:  Regulatory Approval Engineer  Afrah Ali sadiq  Regulatory Approval Engineer  Email address:  Afrah ali.sadiq@ericsson.com  Telephone number:  -46724650796	Frequency Tolerance:	±0.05 ppm						
Maximum supported number of DL NR carrier per port  Maximum supported number of DL LTE carrier per port  Maximum supported number of DL NB-IoT carrier per port  Maximum supported number of DL NB-IoT carrier per port  Nominal output power per Antenna Port /Multi RAT - Multi carrier  Supported transmission modes:  Unintentional Radiators  Highest frequency generated or used in the device or on which the device operates or tunes if <30MHz  Lowest frequency generated or used in the device or on which the device operates or tunes if <30MHz  Class A Digital Device (Use in commercial, industrial or business environment)  Class B Digital Device (Use in residential environment)  Class B Do Power Supply (Delete if Not Applicable)  Nominal voltage: DC power supply  Extreme upper voltage:  Extreme lower voltage:  As A Temperature  Minimum temperature:  Minimum temperature:  Aga A Temperature  Minimum temperature:  Afrah Ali sadiq  Position held:  Regulatory Approval Engineer  Afrah Ali sadiq  Regulatory Approval Engineer  Email address:  Afrah ali.sadiq@ericsson.com  Telephone number:  -46724650796	Carrier Aggregation, CA	Supported						
Maximum supported number of DL LTE carrier per port  Maximum supported number of DL NB-IoT carrier per port  Nominal output power per Antenna Port /Multi RAT - Multi carrier  Supported transmission modes:  4x4 MIMO  Unintentional Radiators  Highest frequency generated or used in the device or on which the device operates or tunes if <30MHz  Lowest frequency generated or used in the device or on which the device operates or tunes if <30MHz  Class A Digital Device (Use in commercial, industrial or business environment)  Class B Digital Device (Use in residential environment)  Extreme upper voltage:  3a.0V  Extreme upper voltage:  3a.0V  Extreme lower voltage:  3a.0V  Extreme lower voltage:  40°C  Maximum temperature:  40°C  Maximum temperature:  40°C  I hereby declare that I am entitled to sign on behalf of the manufacturer and that the information supplied is correct and complete.  Name:  Afrah Ali sadiq  Position held:  Regulatory Approval Engineer  Email address:  Afrah ali.sadiq @ericsson.com  Telephone number:  446724650796	Maximum supported number of DL NR carrier							
Maximum supported number of DL NB-IoT carrier per port  Without optional Fan: 80W With optional Fan: 100W  Supported transmission modes:  Unintentional Radiators  Highest frequency generated or used in the device or on which the device operates or tunes if <30MHz  Class frequency generated or used in the device or on which the device operates or tunes if <30MHz  Class A Digital Device (Use in commercial, industrial or business environment)  Class B Digital Device (Use in residential environment)  Class B Digital Device (Use in Not Applicable)  Nominal voltage: DC power supply  Extreme upper voltage:  Extreme lower voltage:  Afrah Ali sadiq  Position held:  Regulatory Approval Engineer  Afrah Ali sadiq  Regulatory Approval Engineer  Email address:  Livithout optional Fan: 80W With optional Fan: 100W  Supported Fan: 100W  Supported Fan: 100W  Supported Fan: 100W  Supported Fan: 100W  Up to 10.1 Gbit/s  Lip to 10.1 Gbit/s  Lows frequency generated or used in the device or on which the device operates or Up to 10.1 Gbit/s  Lows frequency generated or used in the device or on which the device operates or Up to 10.1 Gbit/s  Lows frequency generated or used in the device or on which the device operates or Up to 10.1 Gbit/s  Lows frequency generated or used in the device or on which the device operates or Up to 10.1 Gbit/s  Lows frequency generated or used in the device or on which the d	Maximum supported number of DL LTE	6/band in B71 and 5/band in 85A						
Without optional Fan: 80W   With optional Fan: 80W   With optional Fan: 100W	Maximum supported number of DL NB-IoT	2/Band						
RAT - Multi carrier  Supported transmission modes:  Up to 10.1 Gbit/s  Highest frequency generated or used in the device or on which the device operates or tunes  Lowest frequency generated or used in the device or on which the device operates or tunes if <30MHz  Class A Digital Device (Use in commercial, industrial or business environment)  Class B Digital Device (Use in residential environment)  Class B Digital Device (Use in residential environment)  Class B Dor Power Supply (Delete if Not Applicable)  Nominal voltage: DC power supply  Extreme upper voltage:  -36.0V  Extreme lower voltage:  -38.A  Temperature  Minimum temperature:  Minimum temperature:  -40°C  Maximum temperature:  1 hereby declare that I am entitled to sign on behalf of the manufacturer and that the information supplied is correct and complete.  Name:  Afrah Ali sadiq  Position held:  Regulatory Approval Engineer  Email address:  Afrah.ali.sadig@ericsson.com  Telephone number:  -46724650796		Without optional Fan: 80W						
Supported transmission modes: 4X4 MIMO  Unintentional Radiators  Highest frequency generated or used in the device or on which the device operates or tunes  Lowest frequency generated or used in the device or on which the device operates or tunes if <30MHz  Class A Digital Device (Use in commercial, industrial or business environment)  Class B Digital Device (Use in residential environment)  Class B Dor Power Supply (Delete if Not Applicable)  Nominal voltage: DC power supply  Extreme upper voltage:  -38.0V  Extreme lower voltage:  -38.5V  Max current:  38A  Temperature  Minimum temperature:  40°C  Maximum temperature:  55°C  I hereby declare that I am entitled to sign on behalf of the manufacturer and that the information supplied is correct and complete.  Name:  Afrah Ali sadiq  Position held:  Regulatory Approval Engineer  Email address:  Afrah.ali.sadiq@ericsson.com  Telephone number:  -46724650796		With optional Fan: 100W						
Highest frequency generated or used in the device or on which the device operates or tunes  Lowest frequency generated or used in the device or on which the device operates or tunes if <30MHz  Class A Digital Device (Use in commercial, industrial or business environment)  Class B Digital Device (Use in residential environment)  Class B  DC Power Supply (Delete if Not Applicable)  Nominal voltage: DC power supply  Extreme upper voltage:  Extreme lower voltage:  -36.0V  Extreme lower voltage:  -58.5V  Max current:  38A  Temperature  Minimum temperature:  40°C  Maximum temperature:  55°C  I hereby declare that I am entitled to sign on behalf of the manufacturer and that the information supplied is correct and complete.  Name:  Afrah Ali sadiq  Position held:  Regulatory Approval Engineer  Email address:  Afrah.ali.sadiq@ericsson.com  Telephone number:  +46724650796		4X4 MIMO						
tunes  Lowest frequency generated or used in the device or on which the device operates or tunes if <30MHz  Class A Digital Device (Use in commercial, industrial or business environment)  Class B Digital Device (Use in residential environment)  Class B  DC Power Supply (Delete if Not Applicable)  Nominal voltage: DC power supply  Extreme upper voltage:  Extreme lower voltage:  -36.0V  Extreme lower voltage:  Max current:  38A  Temperature  Minimum temperature:  Minimum temperature:  1 hereby declare that I am entitled to sign on behalf of the manufacturer and that the information supplied is correct and complete.  Name:  Afrah Ali sadiq  Position held:  Regulatory Approval Engineer  Email address:  Afrah.ali.sadiq@ericsson.com  Telephone number:  +46724650796	Unintentional Radiators							
tunes if <30MHz  Class A Digital Device (Use in commercial, industrial or business environment)  Class B Digital Device (Use in residential environment)  DC Power Supply (Delete if Not Applicable)  Nominal voltage: DC power supply  Extreme upper voltage:  -36.0V  Extreme lower voltage:  -58.5V  Max current:  38A  Temperature  Minimum temperature:  -40°C  Maximum temperature:  1 hereby declare that I am entitled to sign on behalf of the manufacturer and that the information supplied is correct and complete.  Name:  Afrah Ali sadiq  Position held:  Regulatory Approval Engineer  Email address:  Afrah.ali.sadiq@ericsson.com  Telephone number:  -48V  -48V  -48V  -48V  -48V  -48V  -48V  -48V  -58.5V  Max current:  38A  Temperature  -40°C  Maximum temperature:  -40°C  Afrah Ali sadiq  Position held:  Regulatory Approval Engineer  Email address:  -46724650796		vice or on which the device operates or	Up to 10.1 Gbit/s					
Class B Digital Device (Use in residential environment)  DC Power Supply (Delete if Not Applicable)  Nominal voltage: DC power supply  Extreme upper voltage:  -36.0V  Extreme lower voltage:  -58.5V  Max current:  38A  Temperature  Minimum temperature:  -40°C  Maximum temperature:  55°C  I hereby declare that I am entitled to sign on behalf of the manufacturer and that the information supplied is correct and complete.  Name:  Afrah Ali sadiq  Position held:  Regulatory Approval Engineer  Email address:  Afrah.ali.sadiq@ericsson.com  Telephone number:  -48V  -		ice or on which the device operates or						
DC Power Supply (Delete if Not Applicable)  Nominal voltage: DC power supply  Extreme upper voltage:  -36.0V  Extreme lower voltage:  -58.5V  Max current:  38A  Temperature  Minimum temperature:  -40°C  Maximum temperature:  55°C  I hereby declare that I am entitled to sign on behalf of the manufacturer and that the information supplied is correct and complete.  Name:  Afrah Ali sadiq  Position held:  Regulatory Approval Engineer  Email address:  Afrah.ali.sadiq@ericsson.com  Telephone number:  -48V  -48V	Class A Digital Device (Use in commercial, indu	ustrial or business environment)						
Nominal voltage: DC power supply  Extreme upper voltage:  Extreme lower voltage:  -36.0V  Extreme lower voltage:  -58.5V  Max current:  38A  Temperature  Minimum temperature:  -40°C  Maximum temperature:  55°C  I hereby declare that I am entitled to sign on behalf of the manufacturer and that the information supplied is correct and complete.  Name:  Afrah Ali sadiq  Position held:  Regulatory Approval Engineer  Email address:  Afrah.ali.sadiq@ericsson.com  Telephone number:  -48V	Class B Digital Device (Use in residential enviro	onment)	Class B					
Extreme upper voltage:  Extreme lower voltage:  -58.5V  Max current:  38A  Temperature  Minimum temperature:  -40°C  Maximum temperature:  55°C  I hereby declare that I am entitled to sign on behalf of the manufacturer and that the information supplied is correct and complete.  Name:  Afrah Ali sadiq  Position held:  Email address:  Afrah.ali.sadiq@ericsson.com  Telephone number:  -46724650796	DC Power Supply (Delete if Not Applicable)							
Extreme lower voltage:  Max current:  38A  Temperature  Minimum temperature:  -40°C  Maximum temperature:  55°C  I hereby declare that I am entitled to sign on behalf of the manufacturer and that the information supplied is correct and complete.  Name:  Afrah Ali sadiq  Position held:  Regulatory Approval Engineer  Email address:  Afrah.ali.sadiq@ericsson.com  Telephone number:  -40°C  Asymptotic properties of the manufacturer and that the information supplied is correct and complete.  Afrah Ali sadiq  Position held:  Regulatory Approval Engineer  -46724650796	Nominal voltage: DC power supply	-48V						
Max current:  Temperature  Minimum temperature:  -40°C  Maximum temperature:  I hereby declare that I am entitled to sign on behalf of the manufacturer and that the information supplied is correct and complete.  Name:  Afrah Ali sadiq  Position held:  Regulatory Approval Engineer  Email address:  Afrah.ali.sadiq@ericsson.com  Telephone number:  -40°C  Afrah Ali sadiq sericson.com  -40°C  Afrah Ali sadiq sericson.com  -46724650796	Extreme upper voltage:	-36.0V						
Temperature  Minimum temperature:  -40°C  Maximum temperature:  I hereby declare that I am entitled to sign on behalf of the manufacturer and that the information supplied is correct and complete.  Name:  Afrah Ali sadiq  Position held:  Regulatory Approval Engineer  Email address:  Afrah.ali.sadiq@ericsson.com  Telephone number:  -40°C  Afrah Ali sadirest and that the information supplied is correct and complete.  Afrah Ali sadiq  Regulatory Approval Engineer  -46724650796	Extreme lower voltage:	-58.5V						
Minimum temperature:  Maximum temperature:  I hereby declare that I am entitled to sign on behalf of the manufacturer and that the information supplied is correct and complete.  Name:  Afrah Ali sadiq  Position held:  Email address:  Afrah.ali.sadiq@ericsson.com  Telephone number:  -40°C  Afrah Ali sadiq  Regulatory Approval Engineer  Afrah.ali.sadiq@ericsson.com	Max current:	38A						
Maximum temperature: 55°C  I hereby declare that I am entitled to sign on behalf of the manufacturer and that the information supplied is correct and complete.  Name: Afrah Ali sadiq  Position held: Regulatory Approval Engineer  Email address: Afrah.ali.sadiq@ericsson.com  Telephone number: .+46724650796	Temperature							
I hereby declare that I am entitled to sign on behalf of the manufacturer and that the information supplied is correct and complete.  Name:  Afrah Ali sadiq  Position held:  Regulatory Approval Engineer  Email address:  Afrah.ali.sadiq@ericsson.com  Telephone number:  -+46724650796	Minimum temperature:	-40°C						
and complete.  Name:  Afrah Ali sadiq  Position held:  Email address:  Afrah.ali.sadiq@ericsson.com  Telephone number:  -+46724650796	Maximum temperature:	55°C						
Position held:  Regulatory Approval Engineer  Email address:  Afrah.ali.sadiq@ericsson.com  Telephone number:  .+46724650796								
Email address: Afrah.ali.sadiq@ericsson.com Telephone number: .+46724650796	Name: Afrah Ali sadiq							
Telephone number: .+46724650796	Position held: Regulatory Approval Engineer							
	Email address: Afrah.ali.sadiq@ericsson.com							
Date: 01-Nov-2022	Telephone number:	.+46724650796						
ll in the state of	Date:	01-Nov-2022						

No responsibility will be accepted by  $T\ddot{U}V$   $S\ddot{U}D$  as to the accuracy of the information declared in this document by the manufacturer.



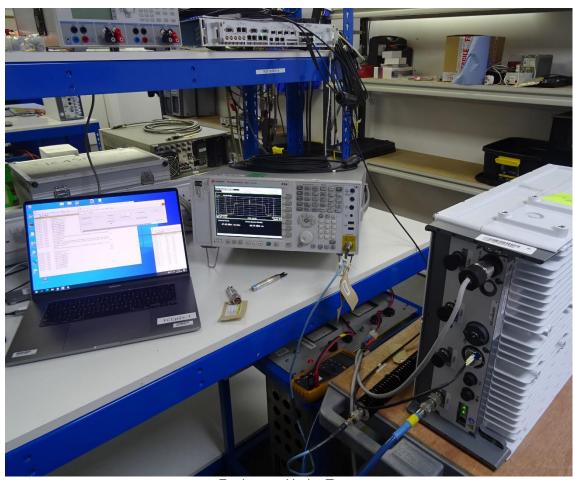
## 1.6 PRODUCT INFORMATION

## 1.6.1 Technical Description

The Equipment Under Test (EUT) Radio 4480 44B71 4485A C - KRC 161 922/1 is an Ericsson AB Radio Unit working in the public mobile service Band 71 and B85A bands which provide communication connections to Band 71 and Band 85A networks.

The EUT is declared as operating from a nominal -48V DC supply.

The Equipment Under Test (EUT) is shown in the photograph below. A full technical description can be found in the Manufacturer's documentation.

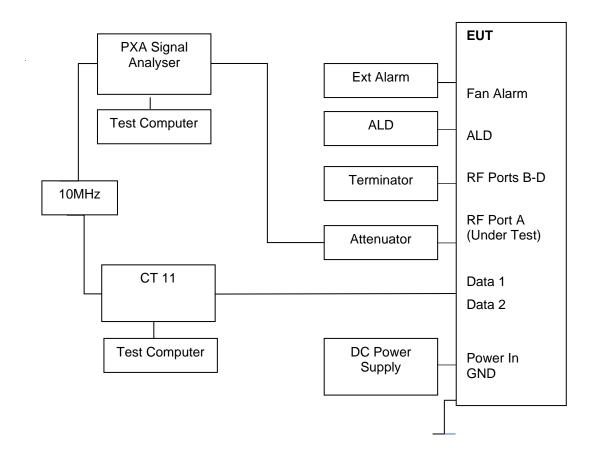


**Equipment Under Test** 



## 1.7 TEST SETUP

Conducted Test Set Up





#### 1.8 TEST CONDITIONS

For all tests the EUT was set up in accordance with the relevant test standard and to represent typical operating conditions. Tests were applied with the EUT situated as described in the Test Method for each Test.

The EUT was powered from a -48V DC supply unless otherwise stated.

FCC Measurement Facility Registration Number 90987 Octagon House, Fareham Test Laboratory

Postal Address: Octagon House, Concorde Way, Fareham, Hampshire, UK, PO15 5RL

**ISED** Accreditation

IC#12669A Octagon House, Fareham Test Laboratory

Postal Address: Octagon House, Concorde Way, Fareham, Hampshire, UK, PO15 5RL

Under our UKAS Accreditation, TÜV SÜD conducted the following tests Octagon House, Fareham Laboratory.

Test Name	Name of Engineer(s)
Maximum Peak Output Power and Peak to Average Ratio - Conducted	Neil Rousell
Occupied Bandwidth	Neil Rousell
Band Edge	Neil Rousell
Transmitter Spurious Emissions	Neil Rousell

#### 1.9 DEVIATION FROM THE STANDARD

No deviations from the applicable test standards or test plan were made during testing.

#### 1.10 MODIFICATION RECORD

No modifications were made to the EUT during testing.



#### 1.11 ADDITIONAL INFORMATION

This filing is for a Class 2 Permissive change to add NR to a previously certified Radio for use in the USA and Canada under the following ID's:

FCC: TA8AKRC161922 IC: 287AB-AS161922

Ericsson will limit this product through the software from operating across the whole of Band 85, it will be limited to (728-745MHz).

This device is electrically identical as originally certified as no hardware changes have been made

Frequency Stability has been verified at time of original certification.

This EUT uses the same port for Tx and Rx and therefore RX Spurious Emissions has not been performed. Rx Spurious Emissions have been covered by testing to FCC Part 15B, which are covered by a seprate test report.

Throughout this report the power unit dBm is used. dBm is a unit of level used to indicate that a power level is expressed in decibels (dB) with reference to one milliwatt (mW). It is used as a convenient measure of absolute power because of its capability to express both very large and very small values in a short form.



**SECTION 2** 

**TEST DETAILS** 



#### 2.1 MAXIMUM PEAK OUTPUT POWER AND PEAK TO AVERAGE RATIO - CONDUCTED

#### 2.1.1 Specification Reference

FCC CFR 47 Part 27, Clause 27.50 ISED RSS-130, Clause 4.6 FCC CFR 47 Part 2, Clause 2.1046

#### 2.1.2 Date of Test and Modification State

26-September-2022 - Modification State 0

#### 2.1.3 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

#### 2.1.4 Environmental Conditions

Ambient Temperature 22.0°C Relative Humidity 52.2%

#### 2.1.5 Test Method

All measurements were made in accordance with FCC KDB 971168 D01, clause 5.2.1 and summed in accordance with FCC KDB 662911 D01.

## 2.1.6 Test Results

Configuration 1

Maximum Output Power 46.00 dBm

			Peak to Average Ratio (PAR) / Output Power / PSD								
				Channel Position B							
Antenna	Antennal		NR Carrier Bandwidth PAR (dB)		(dB) Power/PSD		al Power rt A + B	GANT* Limit 62.15dB	GANT* Limit 65.15dB		
				dBm	dBm/MHz	dBm	dBm/MHz	dBi	dBi		
Α	QPSK	5.0 MHz 15 kHz SCS	7.46	45.60	39.22	51.62	45.24	16.91	19.91		
Α	QPSK	10.0 MHz 15 kHz SCS	-	45.68	-	51.70	-		-		
Α	QPSK	15.0 MHz 15 kHz SCS	-	45.61	-	51.63	-	-	-		

#### Remarks

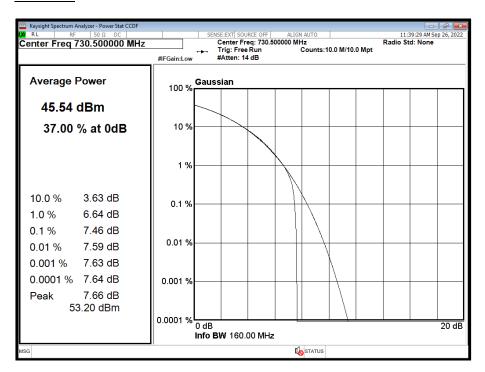
Calculations: Total power = Measured Output Power (port A, worst case) + 10log (NANT)

Where NANT refers to the number of Ports.

<sup>\*</sup> Maximum antenna system gain (including cable loss), GANT (dBi) 50 ohm, for the tested configurations, to comply with Maximum radiated output power in ISED SRSP-518, calculated using measured and summed PSD for both ports.



Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 5.0 MHz 15 kHz SCS - Channel Position B



## Configuration 1

#### Maximum Output Power 46.00 dBm

			Peak to Average Ratio (PAR) / Output Power / PSD						
Antenna	NR Modulation	NR Carrier Bandwidth	PAR (dB)	Average Power/PSD		hannel Position T  Total Power  Port A + B		GANT* Limit 62.15dB	GANT* Limit 65.15dB
				dBm	dBm/MHz	dBm	dBm/MHz	dBi	dBi
Α	QPSK	5.0 MHz 15 kHz SCS	7.47	45.70	39.32	51.72	45.34	16.81	19.81
Α	QPSK	10.0 MHz 15 kHz SCS	=	45.74	-	51.76	-	-	-
Α	QPSK	15.0 MHz 15 kHz SCS	-	45.58	-	51.60	ı	-	-

## Remarks

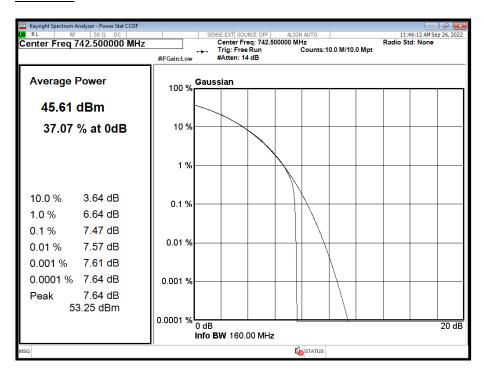
Calculations: Total power = Measured Output Power (port A, worst case) + 10log (NANT)

Where NANT refers to the number of Ports.

<sup>\*</sup> Maximum antenna system gain (including cable loss), GANT (dBi) 50 ohm, for the tested configurations, to comply with Maximum radiated output power in ISED SRSP-518, calculated using measured and summed PSD for both ports.



<u>Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 5.0 MHz 15 kHz SCS - Channel Position T</u>



Limit	
Maximum rated output power (Non-Rural)	≤ 1640 W/MHz or ≤+62.15 dBm/MHz
Maximum rated output power (Rural)	≤ 3280 W/MHz or ≤+65.15 dBm/MHz
Peak to Average Ratio	13 dB

The radio unit was tested with maximum output power and without an antenna. ERP/EIRP compliance is addressed at the time of licensing, as required by the responsible FCC/ISED Bureau(s). Licensees are required to take into account maximum allowed antenna gain used in combination with the applicable power settings to prevent the radiated output power exceeding the limits.



#### 2.2 OCCUPIED BANDWIDTH

## 2.2.1 Specification Reference

FCC CFR 47 Part 27, Clause 27.53 FCC CFR 47 Part 2, Clause 2.1049

#### 2.2.2 Date of Test and Modification State

26-September-2022 - Modification State 0

## 2.2.3 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

#### 2.2.4 Environmental Conditions

Ambient Temperature 22.0°C Relative Humidity 52.2%

#### 2.2.5 Test Method

All measurements were made in accordance with FCC KDB 971168 D01, Clause 4.2 and 4.3. The Spectrum Analyser RBW was configured to be at least 1% of the channel bandwidth of the carrier to be measured.

For 26 dB Bandwidth, in accordance with KDB 971168 D01, a peak detector and a trace setting of Max Hold were used. The trace was allowed to stabilise. Using the Spectrum Analyser function, the 26dB measurement result was obtained.

4.2 Occupied bandwidth - relative measurement procedure

The reference value is the highest level of the spectral envelope of the modulated signal, unless otherwise specified in an applicable rule section.

Subclause 5.4.3 of ANSI C63.26-2015 is applicable.

4.3 Occupied bandwidth – power bandwidth (99 %) measurement procedure Subclause 5.4.4 of ANSI C63.26-2015 is applicable (wherein the recommendation is to use the 99 % power bandwidth function of a spectrum analyzer).

#### 2.2.6 Test Results

Configuration 1

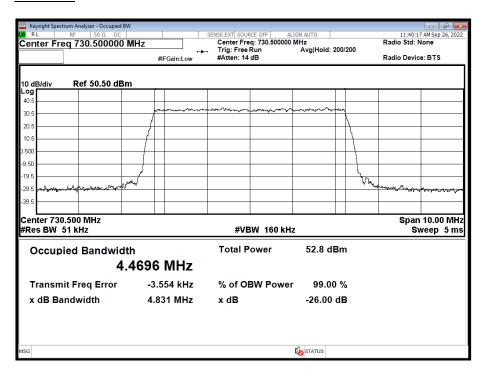
Maximum Output Power 46.00 dBm



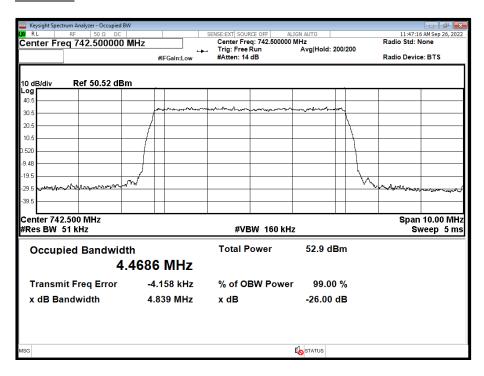
			Result (kHz)							
Antenna	NR	NR Carrier	Channel I	Channel Position B		Channel Position M		Position T		
Antenna	Modulation	Bandwidth	Occupied	-26 dB	Occupied	-26 dB	Occupied	-26 dB		
			Bandwidth	Bandwidth	Bandwidth	Bandwidth	Bandwidth	Bandwidth		
А	QPSK	5.0 MHz 15 kHz SCS	4469.59	4831.07	-	-	4468.58	4839.27		
А	QPSK	10.0 MHz 15 kHz SCS	9291.01	9779.07	-	-	9294.89	9769.31		
А	QPSK	15.0 MHz 15 kHz SCS	14143.52	14756.99	-	-	14144.34	14810.38		



Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 5.0 MHz 15 kHz SCS - Channel Position B

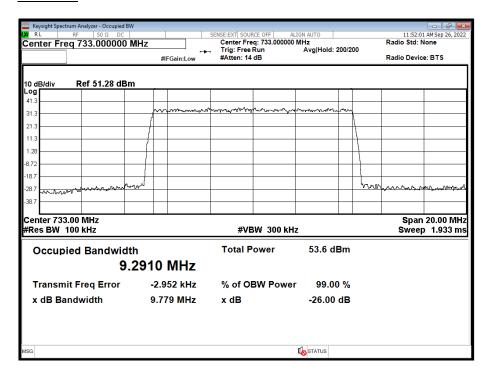


<u>Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 5.0 MHz 15 kHz SCS - Channel Position T</u>

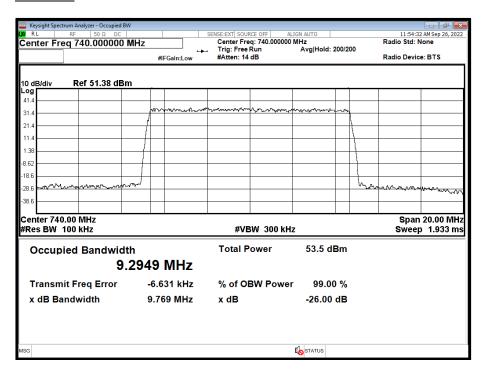




Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 10.0 MHz 15 kHz SCS - Channel Position B

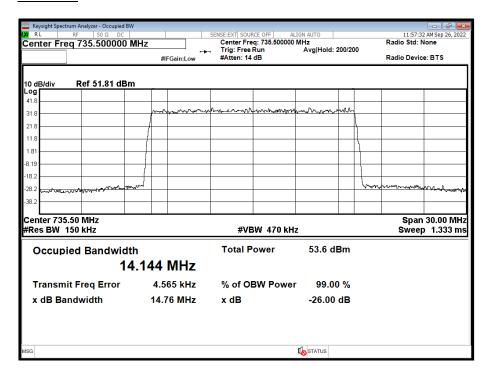


<u>Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 10.0 MHz 15 kHz SCS - Channel Position T</u>

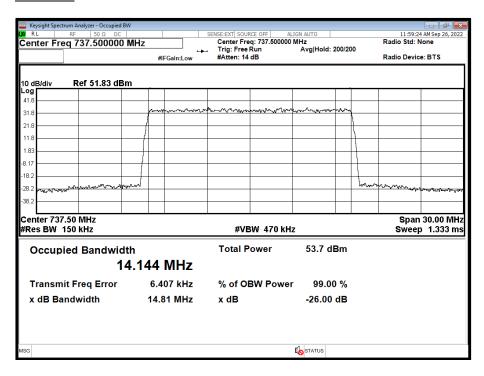




<u>Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 15.0 MHz 15 kHz SCS - Channel Position B</u>



<u>Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 15.0 MHz 15 kHz SCS - Channel Position T</u>





#### 2.3 BAND EDGE

#### 2.3.1 Specification Reference

FCC CFR 47 Part 27, Clause 27.53 FCC CFR 47 Part 2, Clause 2.1051

#### 2.3.2 Date of Test and Modification State

26-September-2022 - Modification State 0

## 2.3.3 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

#### 2.3.4 Environmental Conditions

Ambient Temperature 22.0°C Relative Humidity 52.2%

#### 2.3.5 Test Method

All measurements were made in accordance with FCC KDB 971168 D01, Clause 6.0.

Band Edge measurements were used an Integration Bandwidth of at least 1% of the measured 26dB Bandwidth.

Each antenna port has been declared as being equivalent, therefore measurements were made on one antenna port only. To account for this, the limit was tightened by 10 \* Log(N), where N is equal to the number of MIMO antenna ports.

For single port, the limit was calculated as being -13 dBm - 10  $^{*}$  Log (4) = -19 dBm.

#### 2.3.6 Test Results

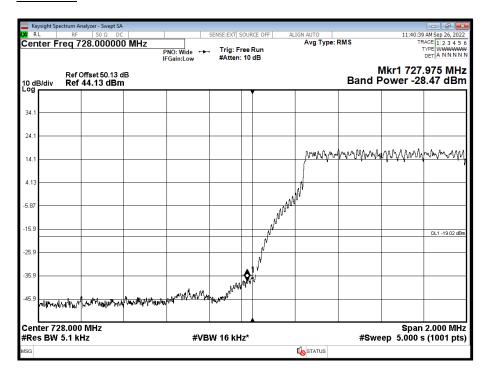
Configuration 1

Maximum Output Power 46.00 dBm

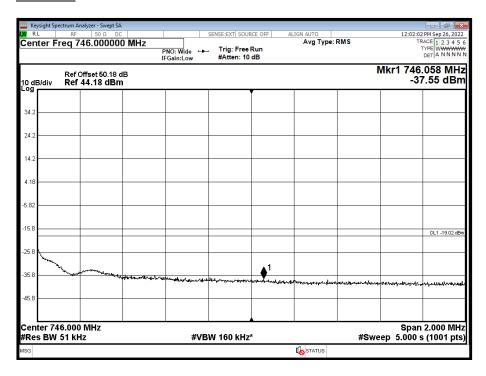
Antenna	NR Modulation	NR Carrier Bandwidth	Band Edge (MHz)			
Antenna	INK MOdulation	INK Carrier Baridwidth	Channel Position B	Channel Position T		
Α	QPSK	5.0 MHz 15 kHz SCS	730.5	742.5		
Α	QPSK	10.0 MHz 15 kHz SCS	733.0	740.0		
A	QPSK	15.0 MHz 15 kHz SCS	735.5	737.5		



Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 5.0 MHz 15 kHz SCS - Channel Position B

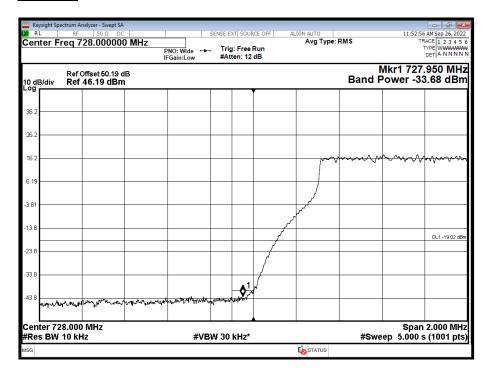


<u>Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 5.0 MHz 15 kHz SCS - Channel Position T</u>

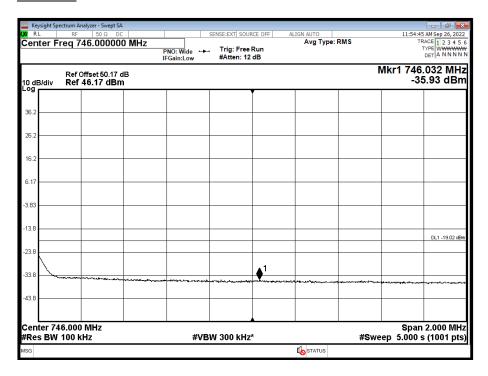




Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 10.0 MHz 15 kHz SCS - Channel Position B

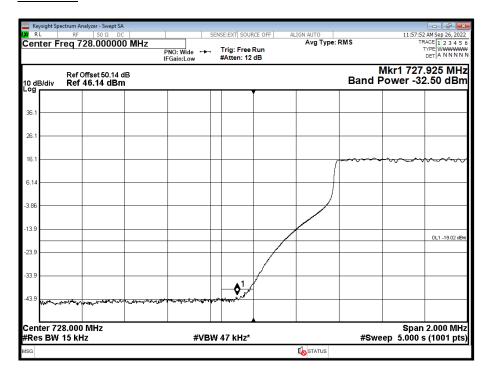


<u>Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 10.0 MHz 15 kHz SCS - Channel Position T</u>

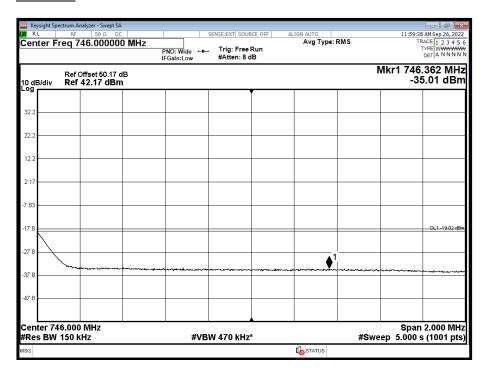




Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 15.0 MHz 15 kHz SCS - Channel Position B



<u>Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 15.0 MHz 15 kHz SCS - Channel Position T</u>







## 2.4 TRANSMITTER SPURIOUS EMISSIONS

#### 2.4.1 Specification Reference

FCC CFR 47 Part 27, Clause 27.53 ISED RSS-130, Clause 4.7 FCC CFR 47 Part 2, Clause 2.1051

#### 2.4.2 Date of Test and Modification State

26-September-2022 - Modification State 0

## 2.4.3 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

#### 2.4.4 Environmental Conditions

Ambient Temperature 22.0°C Relative Humidity 52.2%

#### 2.4.5 Test Method

All measurements were made in accordance with FCC KDB 971168 D01, Clause 6.1.

Each antenna port has been declared as being equivalent, therefore measurements were made on one antenna port only. To account for this, the limit was tightened by 10 \* Log(N), where N is equal to the number of MIMO antenna ports.

For single port, the limit was calculated as being -13 dBm - 10  $^{*}$  Log (4) = -19 dBm.

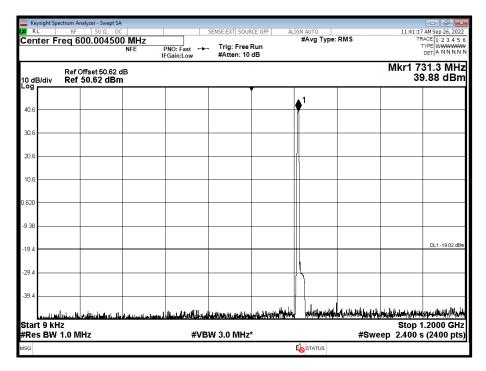
#### 2.4.6 Test Results

Configuration 1

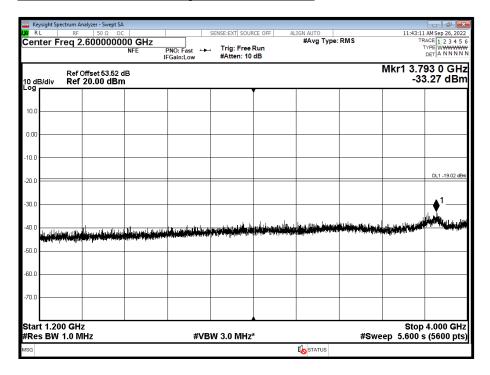
Maximum Output Power 46.00 dBm



Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 5.0 MHz 15 kHz SCS - Channel Position B - Band 1.00 - Range 0.009 to 1200 MHz

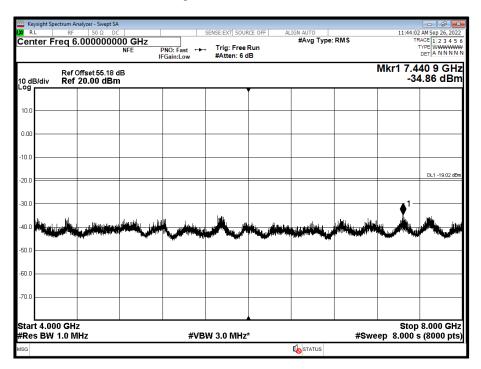


Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 5.0 MHz 15 kHz SCS - Channel Position B - Band 2.00 - Range 1200 to 4000 MHz

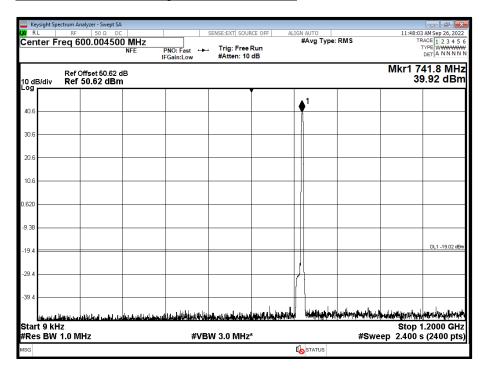




Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 5.0 MHz 15 kHz SCS - Channel Position B - Band 3.00 - Range 4000 to 8000 MHz

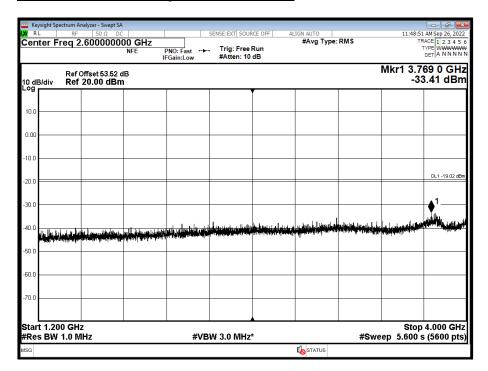


Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 5.0 MHz 15 kHz SCS - Channel Position T - Band 1 - Range 0.009 to 1200 MHz

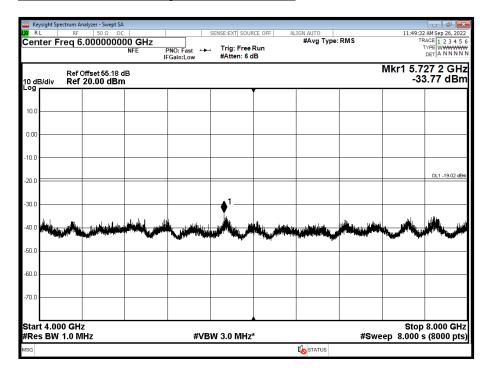




Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 5.0 MHz 15 kHz SCS - Channel Position T - Band 2 - Range 1200 to 4000 MHz



<u>Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 5.0 MHz 15 kHz SCS - Channel Position T - Band 3 - Range 4000 to 8000 MHz</u>



Limit 4.7.1

L	imit	The power of any emission outside of the authorized operating frequency ranges must be attenuated below
L	IIIII	the transmitting power (P) by a factor of at least 43 + 10 log(P) db.



## **SECTION 3**

# **TEST EQUIPMENT USED**



## 3.1 TEST EQUIPMENT USED

List of absolute measuring and other principal items of test equipment.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Due
Maximum Peak Output	Power and Peak to Ave	rage Ratio - Conducted			
Hygrometer	PCE Instruments	PCE-THB-40	5475	12	25-Apr-2023
Frequency Standard	Spectracom	SecureSync 1200- 0408-0601	4393	6	01-Feb-2023
Analyser	Keysight	N9030A	4654	12	24-Nov-2022
Power Supply	Farnell	H60-25	1092	-	OP-MON
Multimeter	Fluke	177	3833	12	16-Dec-2022
Attenuator	Weinschel	48-20-43-LIM	5133	12	02-Dec-2022
Attenuator	Weinschel	48-30-43-LIM	5135	12	20-Aug-2023
Network Analyser	Rohde & Schwarz	ZVA 40	3548	12	24-Feb-2023
Calibration kit	Rohde & Schwarz	ZV-Z55	4368	12	24-Feb-2023
Occupied Bandwidth	•	•	•	•	•
Hygrometer	PCE Instruments	PCE-THB-40	5475	12	25-Apr-2023
Frequency Standard	Spectracom	SecureSync 1200- 0408-0601	4393	6	01-Feb-2023
Analyser	Keysight	N9030A	4654	12	24-Nov-2022
Power Supply	Farnell	H60-25	1092		OP-MON
Multimeter	Fluke	177	3833	12	16-Dec-2022
Attenuator	Weinschel	48-20-43-LIM	5133	12	02-Dec-2022
Attenuator	Weinschel	48-30-43-LIM	5135	12	20-Aug-2023
Network Analyser	Rohde & Schwarz	ZVA 40	3548	12	24-Feb-2023
Calibration kit	Rohde & Schwarz	ZV-Z55	4368	12	24-Feb-2023
Band Edge	1101100 01 001111012	127 200	1.000	1	2
Hygrometer	PCE Instruments	PCE-THB-40	5475	12	25-Apr-2023
Frequency Standard	Spectracom	SecureSync 1200- 0408-0601	4393	6	01-Feb-2023
Analyser	Keysight	N9030A	4654	12	24-Nov-2022
Power Supply	Farnell	H60-25	1092	-	OP-MON
Multimeter	Fluke	177	3833	12	16-Dec-2022
Attenuator	Weinschel	48-20-43-LIM	5133	12	02-Dec-2022
Attenuator	Weinschel	48-30-43-LIM	5135	12	20-Aug-2023
Network Analyser	Rohde & Schwarz	ZVA 40	3548	12	24-Feb-2023
Calibration kit	Rohde & Schwarz	ZV-Z55	4368	12	24-Feb-2023
Transmitter Spurious Er	nissions	· ·	· ·		
Hygrometer	PCE Instruments	PCE-THB-40	5475	12	25-Apr-2023
Frequency Standard	Spectracom	SecureSync 1200- 0408-0601	4393	6	01-Feb-2023
Analyser	Keysight	N9030A	4654	12	24-Nov-2022
Power Supply	Farnell	H60-25	1092	-	OP-MON
Multimeter	Fluke	177	3833	12	16-Dec-2022
Attenuator	Weinschel	48-20-43-LIM	5133	12	02-Dec-2022
Attenuator	Weinschel	48-30-43-LIM	5135	12	20-Aug-2023
Network Analyser	Rohde & Schwarz	ZVA 40	3548	12	24-Feb-2023
Calibration kit	Rohde & Schwarz	ZV-Z55	4368	12	24-Feb-2023
HPF	Mini-Circuits	NHP 1000+	5260	12	20-Aug-2023

TU – Traceability Unscheduled N/A – Not Applicable O/P Mon – Output Monitored with Calibrated Equipment



## 3.2 MEASUREMENT UNCERTAINTY

For a 95% confidence level, the measurement uncertainties for defined systems are:-

Test Discipline	Frequency / Parameter	MU
Conducted Maximum Peak Output Power	9 kHz to 40 GHz Amplitude	± 1.0 dB
Conducted Emissions	9 kHz to 40 GHz Amplitude	± 3.5 dB
	10 MHz Bandwidth	± 16.7 kHz
Occupied Bandwidth	15 MHz Bandwidth	
	20 MHz Bandwidth	
Band Edge	< 3.6 GHz Amplitude	± 0.6 dB

## Measurement Uncertainty Decision Rule

Determination of conformity with the specification limits is based on the results of the compliance measurement and does not take into account measurement instrumentation uncertainty as defined in ANSI C63.26:2015 Clause 1.3.

Risk: The uncertainty of measurement about the measured result is negligible with regard to the final pass/fail decision. The measurement result can be directly compared with the test limit to determine conformance with the requirement (compare IEC Guide 115). The level of risk to falsely accept and falsely reject items is further described in ILAC-G8



## 3.3 MEASUREMENT SOFTWARE USED

List of measurement software versions used for testing.

Instrument/Software	Manufacturer	Type No.	TE No.	Software Version
PXA Signal Analyser	Keysight	N9030A	4654	A 22.08
HP-VEE Software	TUV SUD	HP_VEE	N/A	V3.29



## **SECTION 5**

ACCREDITATION, DISCLAIMERS AND COPYRIGHT



## 4.1 ACCREDITATION, DISCLAIMERS AND COPYRIGHT



This report relates only to the actual item/items tested.

Our UKAS Accreditation does not cover opinions and interpretations and any expressed are outside the scope of our UKAS Accreditation.

Results of tests not covered by our UKAS Accreditation Schedule are marked NUA (Not UKAS Accredited).

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Postal Address: Octagon House, Concorde Way, Fareham, Hampshire, UK, PO15 5RL



# ANNEX A

## **MODULE LIST**



Configuration 1					
Product	Product No	R-State	Serial No		
Radio 4480	KRC 161 922/1	R1B	E23C854217		
Software Version:	CXP9013268/15	Revision:	R92BB		