



Hermon Laboratories Ltd. P.O. Box 23, Binyamina 3055001, Israel Tel. +972 4628 8001 Fax. +972 4628 8277

E-mail: mail@hermonlabs.com

## **TEST REPORT**

**ACCORDING TO: FCC 47CFR part 96** 

FOR:

Airspan Networks Inc.

AirSpan Indoor 5G NR Base station

Models: AirVelocity 1901 5G, 3.55-3.7GHz (n48) PoE

FCC ID: PIDAV1901

This report is in conformity with ISO/ IEC 17025. The "A2LA Accredited" symbol endorsement applies only to the tests and calibrations that are listed in the scope of Hermon Laboratories accreditation. The test results relate only to the items tested. This test report shall not be reproduced in any form except in full with the written approval of Hermon Laboratories Ltd.

Report ID: AIRRAD\_FCC.46669\_Rev4.docx

Date of Issue: 25-Dec-22



# **Table of contents**

1	Applicant information	3
2	Equipment under test attributes	3
3	Manufacturer information	3
4	Test details	3
5	Tests summary	4
6	EUT description	5
6.1	General information	5
6.2	Ports and lines	5
6.3	Support and test equipment	5
6.4	Changes made in the EUT	5
6.5	Test configuration	6
6.6	Transmitter characteristics	7
6.7	Table of calculations for the MAX EIRP at frequency range 3550 – 3700 MHz	
7	Transmitter tests according to 47CFR part 96	9
7.1	Maximum EIRP and maximum power spectral density	9
7.2	Peak-to-average power ratio (PAPR) test	34
7.3	Occupied bandwidth test	50
7.4	Emission outside the fundamental test	71
7.5	Radiated spurious emission measurements	97
7.6	Spurious emissions at RF antenna connector test	
7.7	Frequency stability test	151
8	APPENDIX A Test equipment and ancillaries used for tests	153
9	APPENDIX B Test equipment correction factors	155
10	APPENDIX C Measurement uncertainties	160
11	APPENDIX D Test laboratory description	
12	APPENDIX E Specification references	161
13	APPENDIX F Manufacturer's declaration	162
14	APPENDIX G Abbreviations and acronyms	163

Report ID: AIRRAD\_FCC.46669\_Rev4.docx Date of Issue: 25-Dec-22



## 1 Applicant information

Client name: Airspan Networks Inc.

Address: 777 Yamato, Road Suite 310 Boca Raton, FL 33431, USA

 Telephone:
 +1 561 893 8670

 Fax:
 +1 561 893 8671

 E-mail:
 zlevi@airspan.com

 Contact name:
 Mr. Zion Levi

## 2 Equipment under test attributes

**Product name:** AirSpan Indoor 5G NR Base station

Product type: Transceiver

Model(s): AirStar 1200 5G, 3.55-3.7GHz (n48) PoE\*

Serial number: ECCA61015CA0

Hardware version: 00
Software release: SR 19.50
Receipt date 03-Apr-22

#### 3 Manufacturer information

Manufacturer name: Airspan Networks Inc.

Address: 777 Yamato, Road Suite 310 Boca Raton, FL 33431, USA

 Telephone:
 +1 561 893 8670

 Fax:
 +1 561 893 8671

 E-Mail:
 zlevi@airspan.com

 Contact name:
 Mr. Zion Levi

#### 4 Test details

Project ID: 46669

Location: Hermon Laboratories Ltd. P.O. Box 23, Binyamina 3055001, Israel

Test started: 07-Feb-22
Test completed: 17-Feb-22

Test specification(s): FCC 47CFR part 96

<sup>\*</sup>According to manufacturer's declaration provided in Appendix F the AirStar 1200 5G, 3.55-3.7GHz (n48) PoE and AirVelocity 1901 5G, 3.55-3.7GHz (n48) PoE have an identical radio frequency system and differ only in height of the cooling fins. Therefore, only the model AirStar 1200 5G, 3.55-3.7GHz (n48) PoE was tested.



## 5 Tests summary

Test	Status
Transmitter characteristics	
Section 96.41(b), Maximum EIRP and maximum power spectral density	Pass**
Section 96.41(g), Peak-to- average power ratio	Pass*
Section 2.1049, Occupied bandwidth	Pass*
Section 96.41(e), Emission mask	Pass*
Section 96.41(e)(2), Radiated spurious emissions	Pass**
Section 96.41(e)(3), Conducted spurious emissions	Pass*
Section 2.1055, Frequency stability	Pass*

<sup>\*</sup>This test report is based on the test report AIRRAD\_FCC.44706\_Rev1 issued by Hermon Laboratories assuming that the original EUT configuration approved under FCC ID: PIDAST1200 was not changed except for sleight height difference of the cooling fins as stated in manufacturer's declaration (refer to Appendix F of the test report).

The cooling fins have no impact on the spurious emissions as they are made of the solid-state metal.

This test report supersedes the previously issued test report identified by Doc ID: AIRRAD\_FCC.46669\_Rev3

Testing was completed against all relevant requirements of the test standard. The results obtained indicate that the product under test complies in full with the requirements tested.

The test results relate only to the items tested. Pass/ fail decision was based on nominal values.

	Name and Title	Date	Signature
Tested by:	Mr. A. Morozov, test engineer, EMC & Radio	07-Feb-22 – 17-Feb-22	fr-
Reviewed by:	Mrs. S. Peysahov Sheynin, test engineer, EMC & Radio	22-Dec-22	
Approved by:	Mr. M. Nikishin, EMC and Radio group leader	25-Dec-22	ff

<sup>\*\*</sup>These tests were performed again as a spot check of retesting at worst case settings as appears in the original test report



## 6 EUT description

Note: The following data in this clause is provided by the customer and represents his sole responsibility

#### 6.1 General information

The EUT is a Mobile Digital station, AirVelocity 1901 5G, 3.55-3.7GHz (n48) PoE, is part of a 5G broadband fixed cellular wireless access system. The system provides a radio link between an end-user (a subscriber) and a network to give high-speed data access.

The AirVelocity 1901's transceiver/receiver (Up to 256 QAM modulation, data rate up to 190 Mbps) equipped with a 8.7dBi Internal antenna. Advanced Antenna Techniques 2x1 MIMO are supported. The maximum RF output power (not including antenna gain) is 27.04 dBm for 8.7dBi and it can be reduced by software.

The AirVelocity is installed indoors. The Subscriber transmits and receives traffic to and from the base station respectively. The transceiver provides subscribers with "always-on" Internet, high speed data only, or data and voice (VoIP) services and is configured with a unique base station reference number, preventing the 5G UE from relocating to another subscriber premises without authorization.

Note: AirVelocity 1901 equipment defined as Category A CBSD (Citizens Broadband Radio Service Device) per FCC part 96 section 96.3(2).

Antennas 1/2 arrange one sector while antenna 1 is cross polarized to antenna 2. The transmitter output signals are completely uncorrelated.

This device supports 5G-NR TDD n48 band and the partial n77/n78 bands matching n48 band.

#### 6.2 Ports and lines

Port type	Port description	Connected from	Connected to	Qty.	Cable type	Cable length, m
Power	POE	EUT	POE 56V	1	RG45	>3m
Signal	RS232*	EUT	Laptop	1	RG45	>3m
Signal	SFP port	EUT	SFP Adapter	1	Optic cable	>3m
Signal	DC power 48VDC**	EUT	VDC	1	NA	NA

<sup>\*</sup> For maintenance

## 6.3 Support and test equipment

Description	Manufacturer	Model number	Serial number
PC	DELL	Latitude E7440	NA
POE adapter	PHIHONG	POE90U-1BT	NA
SFP adapter	Advice	SFP-10G-SMA40	NA
RF attenuator 20db	Mini-circuits	VAT-20+	NA

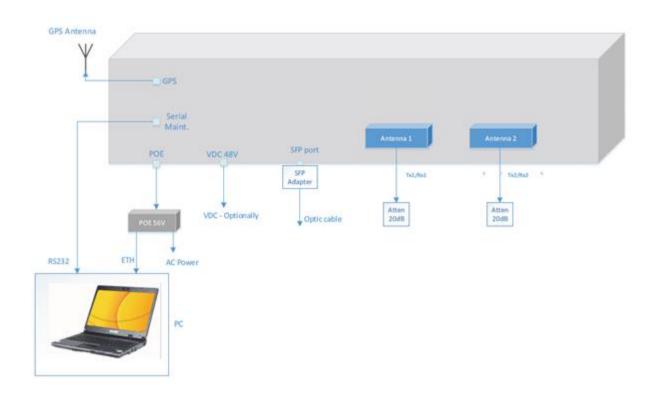
### 6.4 Changes made in the EUT

No changes were implemented in the EUT during testing.

<sup>\*\*</sup>Optionally



## 6.5 Test configuration





## 6.6 Transmitter characteristics

0.0	· · a · · o · · · · · · · · ·	Oilai	aoto: i	51.00									
Type of	equipment												
V Stand-alone (Equipment with or without its own control provisions)													
	Combined equipm							ated within ano	ther type o	f equipment)			
	Plug-in card (Equip												
Intende	d use	Con	dition of	use									
	fixed	Alwa	ays at a di	stance i	more tha	n 2 m	from all	people					
٧	mobile	Alwa	ays at a di	stance i	more tha	n 20 c	cm from a	all people					
portable May operate at a distance closer than 20 cm to human body													
Assigne	ed frequency rang	е		3550.0	0 – 3700	.0 MH	z						
Operatir	ng frequency (full	bands)		3555.0	) – 3695	.0 MH:	Z						
RF char	nnel spacing			10 MH	z, 20 Mł	Iz, 40	MHz						
Maximu	m rated output po	ower		At tran	smitter 5	50 Ω F	RF output	connector (per	port)	27.04 dE	3m		
	-				No		•		•	·			
							CC	ntinuous variab	ole				
Is transi	mitter output pow	er varia	ble?		.,	V	stepped variable with step size 0.25 dB						
	• •			٧	Yes	mir	minimum RF power -30 dBm						
								F power at ante	enna conne	ctor dBm			
Antenna	a connection							•		·			
		.,						<b>V</b> with		th temporary RF conne	h temporary RF connector		
	unique coupling	V	star	ndard co	nnector	tor Integral without temporary RF c							
Antenna	a/s technical char	acteristi	cs										
Type			Manufac	turer		Model number		Gain					
Internal			Airspan		(S	AW3867-1_2 8.7 dBi			8.7 dBi				
Transmi	itter aggregate da	ta rate/s	, Mbps										
								Туре	of modulat	tion			
	ransmitter 26dBc p		mawiatn		(	QPSK		16QA		64QAM	256QAM		
	10 MI					10.7		22.7		47.3	71.5		
	20 MI					23.4		45.4		95.0	143.0		
	40 MI	ΗZ				46.8		90.8	3	190.0	285.0		
Type of	multiplexing				TI	DD							
Modulat	ting test signal (ba	aseband	l)		PI	RBS							
Maximu	m transmitter dut	y cycle	in normal	use	0.	74							
Transmi	itter power source												
			rated vol					Battery type			_		
DC Nominal rated voltage													
V AC mains Nominal rated voltage 48 VAC					/AC	Frequency							
Commo	n power source fo	or transi	mitter and	l receiv	er			<b>V</b> y	/es	nc	)		



## 6.7 Table of calculations for the MAX EIRP at frequency range 3550 – 3700 MHz

Antenna configuration	Antenna Vendor	Antenna Model Number	Antenna Peak Gain (dBi)	Signal Bandwidth (MHz)	Maximum Conducted Power (dBm)	EIRP (dBm/10MHz)	EIRP per Bandwidth (dBm)	Operational Category
	Airspan Networks	AVV3867-1 2	8.7	10.0	21.25	29.95	29.95	
1				20.0	23.88	29.97	32.58	Α
				40.0	27.04	29.97	35.74	



Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density			
Test procedure:	Section 96.41(e)(3)			
Test mode:	Compliance	Verdict:	PASS	
Date(s):	07-Feb-22	verdict:	PASS	
Temperature: 24 °C	Relative Humidity: 55 %	Air Pressure: 1011 hPa	Power: 48 VAC	
Remarks:				

## 7 Transmitter tests according to 47CFR part 96

## 7.1 Maximum EIRP and maximum power spectral density

#### 7.1.1 General

This test was performed to measure the maximum EIRP and maximum spectral power density at the transmitter RF antenna connector. Specification test limits are given in Table 7.1.1, Table 7.1.2.

**Table 7.1.1 Maximum EIRP limits** 

Assistanced fragmentation and MILE	EIRP	
Assigned frequency range, MHz	dBm/10 MHz	
3550 - 3700	30.0	

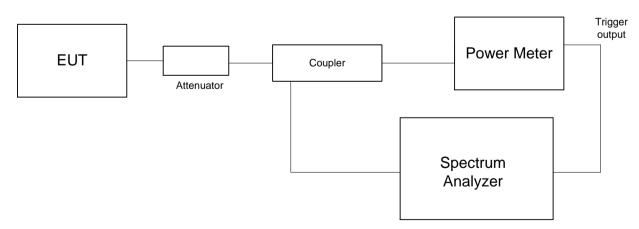
Table 7.1.2 Peak spectral power density limits

Assigned frequency range, MHz	Measurement bandwidth, MHz	Peak spectral power density, dBm
3550 - 3700	1.0	20.0

#### 7.1.2 Test procedure

- 7.1.2.1 The EUT was set up as shown in Figure 7.1.1, energized and its proper operation was checked.
- **7.1.2.2** The EUT was adjusted to produce maximum available to end user RF output power.
- **7.1.2.3** The frequency span of spectrum analyzer was set to capture the entire 6 dB band of the transmitter, in average mode with resolution bandwidth set to 1.0 MHz, video bandwidth wider than resolution bandwidth, sweep time and sufficient number of sweeps was allowed for trace stabilization.
- **7.1.2.4** Spectrum analyzer was set in average mode, sufficient number of sweeps was allowed for trace stabilization and peak spectral power density was measured as provided in Table 7.1.3, Table 7.1.4 and the associated plots.

Figure 7.1.1 Maximum EIRP and power spectral density test setup





Test specification: Section 96.41(b), Maximum EIRP and maximum power spectral density					
Test procedure:	Section 96.41(e)(3)				
Test mode:	Compliance	Verdict:	PASS		
Date(s):	07-Feb-22	verdict:	PASS		
Temperature: 24 °C	Relative Humidity: 55 %	Air Pressure: 1011 hPa	Power: 48 VAC		
Remarks:					

#### Table 7.1.3 Maximum EIRP test results

3550.0 - 3700.0 MHz ASSIGNED FREQUENCY RANGE: DETECTOR USED: Average (gated) VIDEO BANDWIDTH: ≥ Resolution bandwidth CHANNEL SPACING: 10 MHz

Frequency,	RF Output power		Antenna		Limit,	Margin,			
MHz	Chain RF#1, dBm	Chain RF#2, dBm	gain, dBi	EIRP**, dBm/10 MHz	dBm/10 MHz		Verdict		
Modulation Q	PSK*			_					
3555.0	21.14	21.25	8.7	29.95	30.0	-0.05	Pass		
3625.0	21.24	21.22	8.7	29.94	30.0	-0.06	Pass		
3695.0	21.23	21.16	8.7	29.93	30.0	-0.07	Pass		
Modulation 1	6QAM								
3555.0	21.17	21.14	8.7	29.87	30.0	-0.13	Pass		
3625.0	21.15	20.56	8.7	29.85	30.0	-0.15	Pass		
3695.0	20.78	20.97	8.7	29.67	30.0	-0.33	Pass		
Modulation 6	4QAM								
3555.0	21.11	21.07	8.7	29.81	30.0	-0.19	Pass		
3625.0	21.14	20.91	8.7	29.84	30.0	-0.16	Pass		
3695.0	20.84	21.10	8.7	29.80	30.0	-0.20	Pass		
Modulation 2	Modulation 256QAM								
3555.0	20.97	21.10	8.7	29.80	30.0	-0.20	Pass		
3625.0	21.07	20.91	8.7	29.77	30.0	-0.23	Pass		
3695.0	21.23	20.67	8.7	29.93	30.0	-0.07	Pass		

<sup>\*-</sup> This test wes performed again as a spot check of retesting at worst case settings as appears in the original test report.

\*\*- EIRP = Max SA reading (Chains #1&2) - 10\*log[OBW(MHz) / 10 MHz]] + Antenna gain =

Max SA reading + Antenna gain: The transmitter output signal are completely uncorrelated, antennas 1/2 is one sector.

<sup>\*\* -</sup> Margin = EIRP, dBm – specification limit.



Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density					
Test procedure:	Section 96.41(e)(3)					
Test mode:	Compliance	Verdict:	PASS			
Date(s):	07-Feb-22	verdict.	PASS			
Temperature: 24 °C	Relative Humidity: 55 %	Air Pressure: 1011 hPa	Power: 48 VAC			
Remarks:						

#### **Table 7.1.4 Maximum EIRP test results (continue)**

ASSIGNED FREQUENCY RANGE: 3550.0 − 3700.0 MHz
DETECTOR USED: Average (gated)

VIDEO BANDWIDTH: ≥ Resolution bandwidth
CHANNEL SPACING: 20 MHz

Frequency,	RF Outp	ut power	Antenna	EIRP*,	EIRP*,	Limit,	Margin,	
MHz	Chain RF#1, dBm	Chain RF#2, dBm	gain, dBi	dBm/20 MHz	dBm/10 MHz	dBm/10 MHz	dB**	Verdict
Modulation Q	PSK				_			
3560.0	23.36	23.88	8.70	32.58	29.97	30.0	-0.03	Pass
3625.0	23.87	23.81	8.70	32.57	29.96	30.0	-0.04	Pass
3690.0	23.75	23.48	8.70	32.45	29.84	30.0	-0.16	Pass
Modulation 16	6QAM							
3560.0	23.64	23.67	8.70	32.37	29.76	30.0	-0.24	Pass
3625.0	23.83	23.24	8.70	32.53	29.92	30.0	-0.08	Pass
3690.0	23.42	23.48	8.70	32.18	29.57	30.0	-0.43	Pass
Modulation 6	4QAM							
3560.0	23.74	23.86	8.70	32.56	29.95	30.0	-0.05	Pass
3625.0	23.82	23.48	8.70	32.52	29.91	30.0	-0.09	Pass
3690.0	23.40	23.58	8.70	32.28	29.67	30.0	-0.33	Pass
Modulation 2	56QAM							
3560.0	23.56	23.55	8.70	32.26	29.65	30.0	-0.35	Pass
3625.0	23.72	23.32	8.70	32.42	29.81	30.0	-0.19	Pass
3690.0	23.38	23.71	8.70	32.41	29.80	30.0	-0.20	Pass

<sup>\*-</sup> EIRP = Max SA reading (Chains #1&2) - 10\*log[OBW(MHz) / 10 MHz]] + Antenna gain = Max SA reading – 2.61 dB + Antenna gain: The transmitter output signal are completely uncorrelated, antennas 1/2 is one sector.

<sup>\*\* -</sup> Margin = EIRP, dBm - specification limit.



Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density					
Test procedure:	Section 96.41(e)(3)					
Test mode:	Compliance	Verdict:	PASS			
Date(s):	07-Feb-22	verdict:	PASS			
Temperature: 24 °C	Relative Humidity: 55 %	Air Pressure: 1011 hPa	Power: 48 VAC			
Remarks:						

#### **Table 7.1.5 Maximum EIRP test results (continue)**

ASSIGNED FREQUENCY RANGE: 3550.0 – 3700.0 MHz
DETECTOR USED: Average (gated)

VIDEO BANDWIDTH: ≥ Resolution bandwidth
CHANNEL SPACING: 40 MHz

Frequency,	RF Outp	ut power	Antenna	EIRP*,	EIRP*,	Limit,	Margin,	_
MHz	Chain RF#1, dBm	Chain RF#2, dBm	gain, dBi	dBm/40 MHz	dBm/10 MHz	dBm/10 MHz	dB**	Verdict
Modulation Q	PSK							
3570.0	27.03	26.95	8.70	35.73	29.96	30.0	-0.04	Pass
3625.0	27.04	26.90	8.70	35.74	29.97	30.0	-0.03	Pass
3680.0	25.50	26.08	8.70	34.78	29.01	30.0	-0.99	Pass
Modulation 1	6QAM							
3570.0	26.73	26.40	8.70	35.43	29.66	30.0	-0.34	Pass
3625.0	26.99	26.76	8.70	35.69	29.92	30.0	-0.08	Pass
3680.0	25.43	26.01	8.70	34.71	28.94	30.0	-1.06	Pass
Modulation 6	4QAM							
3570.0	26.72	26.36	8.70	35.42	29.65	30.0	-0.35	Pass
3625.0	26.95	26.74	8.70	35.65	29.88	30.0	-0.12	Pass
3680.0	25.43	26.02	8.70	34.72	28.95	30.0	-1.05	Pass
Modulation 2	56QAM							
3570.0	27.01	26.39	8.70	35.71	29.94	30.0	-0.06	Pass
3625.0	26.96	26.85	8.70	35.66	29.89	30.0	-0.11	Pass
3680.0	25.41	26.01	8.70	34.71	28.94	30.0	-1.06	Pass

<sup>\*-</sup> EIRP = Max SA reading (Chains #1&2) - 10\*log[OBW(MHz) / 10 MHz]] + Antenna gain = Max SA reading – 5.77 dB + Antenna gain: The transmitter output signal are completely uncorrelated, antennas 1/2 is one sector.

<sup>\*\* -</sup> Margin = EIRP, dBm - specification limit.



Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density					
Test procedure:	Section 96.41(e)(3)					
Test mode:	Compliance	Verdict:	PASS			
Date(s):	07-Feb-22	verdict:	PASS			
Temperature: 24 °C	Relative Humidity: 55 %	Air Pressure: 1011 hPa	Power: 48 VAC			
Remarks:						

Table 7.1.6 Peak spectral power density test results

ASSIGNED FREQUENCY RANGE:

DETECTOR USED:

VIDEO BANDWIDTH:

NUMBER OF CHAINS:

CHANNEL SPACING:

2

3550.0 − 3700.0 MHz

Average (gated)

≥ Resolution bandwidth

2

10 MHz

Frequency,	SA Reading,	dBm/MHz	Antenna	Total PSD**,	Limit,	Margin	Verdi
MHz	Chain RF#1	Chain RF#2	gain, dBi	dBm/ MHz	dBm/MHz	, dB	ct
Modulation C	PSK*						
3555	11.17	11.28	8.7	19.98	20.0	-0.02	Pass
3625	11.29	11.27	8.7	19.99	20.0	-0.01	Pass
3695	11.26	11.19	8.7	19.96	20.0	-0.04	Pass
Modulation 1	6QAM						
3555	11.28	11.25	8.7	19.98	20.0	-0.02	Pass
3625	11.23	10.69	8.7	19.93	20.0	-0.07	Pass
3695	10.78	11.00	8.7	19.70	20.0	-0.30	Pass
Modulation 6	4QAM						
3555	11.24	11.25	8.7	19.95	20.0	-0.05	Pass
3625	11.22	10.80	8.7	19.92	20.0	-0.08	Pass
3695	10.78	11.14	8.7	19.84	20.0	-0.16	Pass
Modulation 2	56QAM						
3555	11.06	10.94	8.7	19.76	20.0	-0.24	Pass
3625	11.16	11.00	8.7	19.86	20.0	-0.14	Pass
3695	11.23	10.80	8.7	19.93	20.0	-0.07	Pass

<sup>\*-</sup> This test wes performed again as a spot check of retesting at worst case settings as appears in the original test report.

<sup>\*\* -</sup> Total PSD = Max SA reading (Chains #1&2) + Antenna Gain: The transmitter output signals are completely uncorrelated, antennas 1/2 is one sector

<sup>\*\* -</sup> Margin = Total PSD, dBm – specification limit.



Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density					
Test procedure:	Section 96.41(e)(3)					
Test mode:	Compliance	Vordiate	PASS			
Date(s):	07-Feb-22	Verdict:	PASS			
Temperature: 24 °C	Relative Humidity: 55 %	Air Pressure: 1011 hPa	Power: 48 VAC			
Remarks:	-					

Table 7.1.7 Peak spectral power density test results (continue)

ASSIGNED FREQUENCY RANGE:

DETECTOR USED:

VIDEO BANDWIDTH:

NUMBER OF CHAINS:

CHANNEL SPACING:

2

20 MHz

Frequency,	SA Reading, o	dBm/MHz	Antenna	Total PSD*,	Limit,	Margin	Verdi
MHz	Chain RF#1	Chain RF#2	gain, dBi	dBm/ MHz	dBm/MHz	, dB	ct
Modulation 0	PSK						
3560.0	10.01	10.51	8.7	19.21	20.0	-0.79	Pass
3625.0	10.53	10.48	8.7	19.23	20.0	-0.77	Pass
3690.0	10.26	9.85	8.7	18.96	20.0	-1.04	Pass
Modulation 1	6QAM						
3560.0	10.41	10.44	8.7	19.14	20.0	-0.86	Pass
3625.0	10.57	10.19	8.7	19.27	20.0	-0.73	Pass
3690.0	9.98	10.14	8.7	18.84	20.0	-1.16	Pass
Modulation 6	64QAM						
3560.0	10.51	10.67	8.7	19.37	20.0	-0.63	Pass
3625.0	10.57	10.30	8.7	19.27	20.0	-0.73	Pass
3690.0	9.91	10.14	8.7	18.84	20.0	-1.16	Pass
Modulation 2	256QAM						
3560.0	10.30	10.37	8.7	19.07	20.0	-0.93	Pass
3625.0	10.49	10.27	8.7	19.19	20.0	-0.81	Pass
3690.0	9.94	10.27	8.7	18.97	20.0	-1.03	Pass

<sup>\* -</sup> Total PSD = Max SA reading (Chains #1&2) + Antenna Gain: The transmitter output signal are completely uncorrelated, antennas 1/2 is one sector

<sup>\*\* -</sup> Margin = Total PSD, dBm - specification limit.



Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density					
Test procedure:	Section 96.41(e)(3)					
Test mode:	Compliance	Verdict:	PASS			
Date(s):	07-Feb-22	verdict:	PASS			
Temperature: 24 °C	Relative Humidity: 55 %	Air Pressure: 1011 hPa	Power: 48 VAC			
Remarks:						

#### Table 7.1.8 Peak spectral power density test results (continue)

ASSIGNED FREQUENCY RANGE: 3550.0 − 3700.0 MHz

DETECTOR USED: Average (gated)

VIDEO BANDWIDTH: ≥ Resolution bandwidth

NUMBER OF CHAINS: 2

CHANNEL SPACING: 40 MHz

Frequency,	SA Reading, o	dBm/MHz	Antenna	Total PSD*,	Limit,	Margin	Verdi
MHz	Chain RF#1	Chain RF#2	gain, dBi	dBm/ MHz	dBm/MHz	, dB	ct
Modulation C	PSK						
3570.0	10.57	10.26	8.7	19.27	20.0	-0.73	Pass
3625.0	10.70	10.61	8.7	19.40	20.0	-0.60	Pass
3680.0	10.57	10.26	8.7	18.49	20.0	-1.51	Pass
Modulation 1	6QAM						
3570.0	10.50	10.18	8.7	19.20	20.0	-0.80	Pass
3625.0	10.62	10.67	8.7	19.37	20.0	-0.63	Pass
3680.0	9.16	9.82	8.7	18.52	20.0	-1.48	Pass
Modulation 6	4QAM						
3570.0	10.46	10.16	8.7	19.16	20.0	-0.84	Pass
3625.0	10.50	10.73	8.7	19.43	20.0	-0.57	Pass
3680.0	9.17	9.79	8.7	18.49	20.0	-1.51	Pass
Modulation 2	56QAM						
3570.0	10.58	10.14	8.7	19.28	20.0	-0.72	Pass
3625.0	10.51	10.41	8.7	19.21	20.0	-0.79	Pass
3680.0	9.01	9.82	8.7	18.52	20.0	-1.48	Pass

<sup>\* -</sup> Total PSD = Max SA reading (Chains #1&2) + Antenna Gain: The transmitter output signal are completely uncorrelated, antennas 1/2 is one sector

### Reference numbers of test equipment used

_							
	HL 3301	HL 3302	HL 4355	HL 4366	HL 6143		

Full description is given in Appendix A.

<sup>\*\* -</sup> Margin = Total PSD, dBm - specification limit.

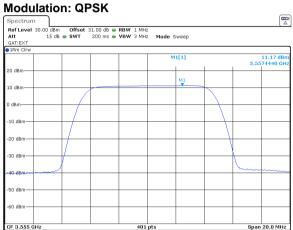


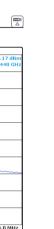
Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density					
Test procedure:	Section 96.41(e)(3)					
Test mode:	Compliance	Verdict:	PASS			
Date(s):	07-Feb-22	verdict:	PASS			
Temperature: 24 °C	Relative Humidity: 55 %	Air Pressure: 1011 hPa	Power: 48 VAC			
Remarks:						

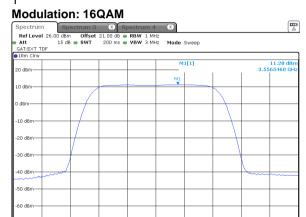
Plot 7.1.1 Peak spectral power density at low frequency

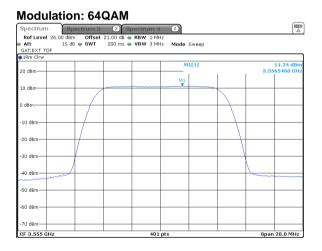
10 MHz

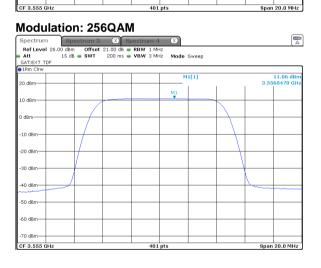
CHANNEL SPACING: ANTENNA CHAIN:









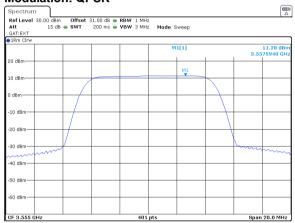


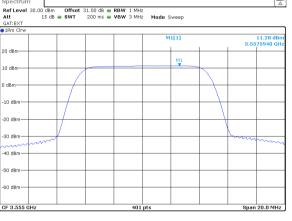


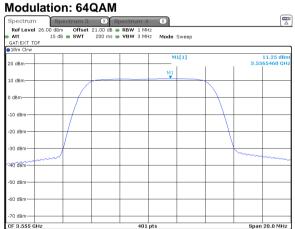
Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density			
Test procedure:	Section 96.41(e)(3)			
Test mode:	Compliance	Verdict: PASS		
Date(s):	07-Feb-22	verdict:	PASS	
Temperature: 24 °C	Relative Humidity: 55 %	Air Pressure: 1011 hPa	Power: 48 VAC	
Remarks:				

Plot 7.1.2 Peak spectral power density at low frequency

CHANNEL SPACING: ANTENNA CHAIN: **Modulation: QPSK** 



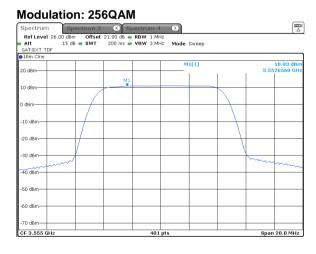




10 MHz

**Modulation: 16QAM** 







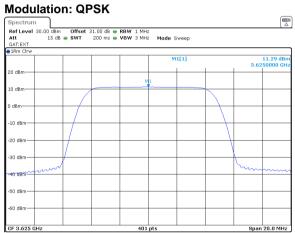
Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density			
Test procedure:	Section 96.41(e)(3)			
Test mode:	Compliance	Verdict: PASS		
Date(s):	07-Feb-22	verdict:	PASS	
Temperature: 24 °C	Relative Humidity: 55 %	Air Pressure: 1011 hPa	Power: 48 VAC	
Remarks:				

Plot 7.1.3 Peak spectral power density at mid frequency

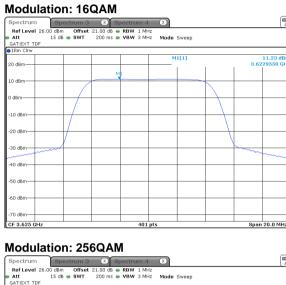
10 MHz

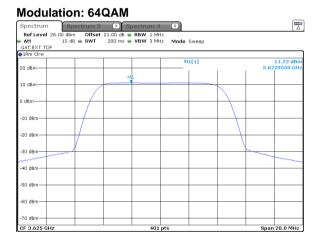
Modulation: 16QAM

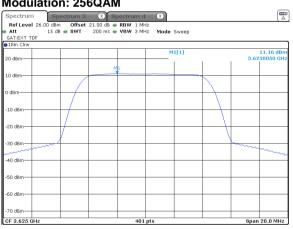
CHANNEL SPACING: ANTENNA CHAIN:









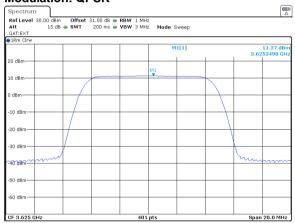




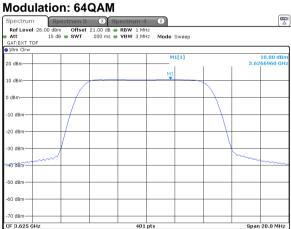
Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density			
Test procedure:	Section 96.41(e)(3)			
Test mode:	Compliance	Verdict: PASS		
Date(s):	07-Feb-22	verdict:	PASS	
Temperature: 24 °C	Relative Humidity: 55 %	Air Pressure: 1011 hPa	Power: 48 VAC	
Remarks:				

Plot 7.1.4 Peak spectral power density at mid frequency

CHANNEL SPACING: ANTENNA CHAIN: **Modulation: QPSK** 

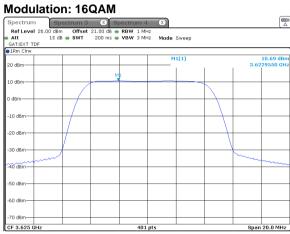




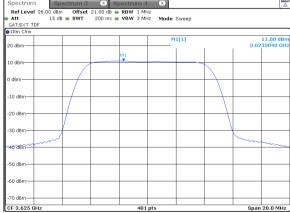










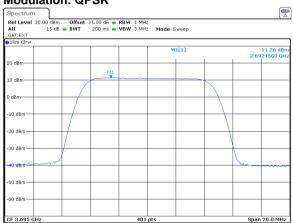


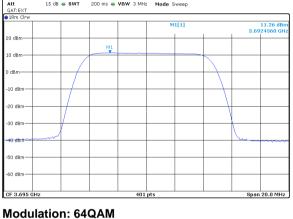


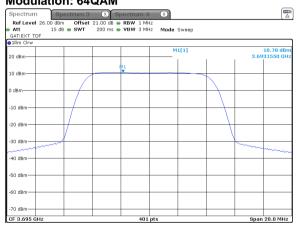
Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density			
Test procedure:	Section 96.41(e)(3)			
Test mode:	Compliance	Verdict: PASS		
Date(s):	07-Feb-22	verdict.	PASS	
Temperature: 24 °C	Relative Humidity: 55 %	Air Pressure: 1011 hPa	Power: 48 VAC	
Remarks:				

Plot 7.1.5 Peak spectral power density at high frequency

CHANNEL SPACING: ANTENNA CHAIN: **Modulation: QPSK** 



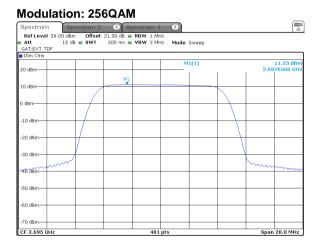




10 MHz



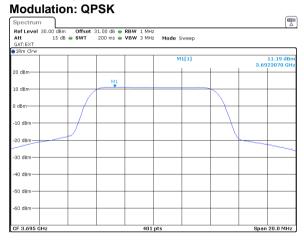






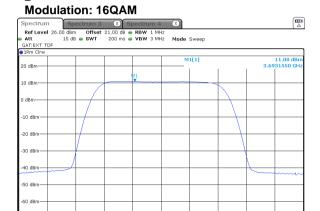
Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density			
Test procedure:	Section 96.41(e)(3)			
Test mode:	Compliance	Verdict: PASS		
Date(s):	07-Feb-22	Verdict:	PASS	
Temperature: 24 °C	Relative Humidity: 55 %	Air Pressure: 1011 hPa	Power: 48 VAC	
Remarks:				

Plot 7.1.6 Peak spectral power density at high frequency



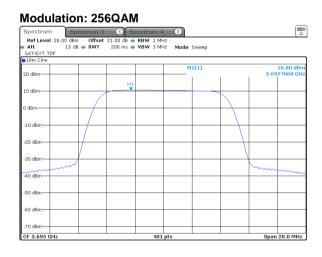
10 MHz

CF 3.695 GHz



401 pts

| Spectrum | Spectrum





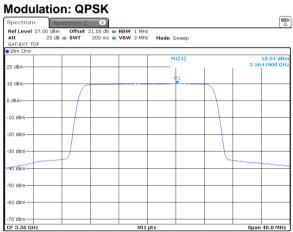
Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density			
Test procedure:	Section 96.41(e)(3)			
Test mode:	Compliance	Verdict: PASS		
Date(s):	07-Feb-22	verdict:	PA33	
Temperature: 24 °C	Relative Humidity: 55 %	Air Pressure: 1011 hPa	Power: 48 VAC	
Remarks:				

Plot 7.1.7 Peak spectral power density at low frequency

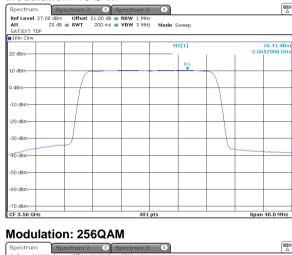
20 MHz

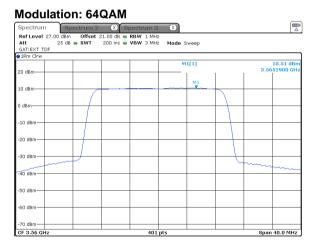
**Modulation: 16QAM** 

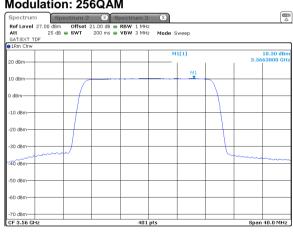
CHANNEL SPACING: ANTENNA CHAIN:







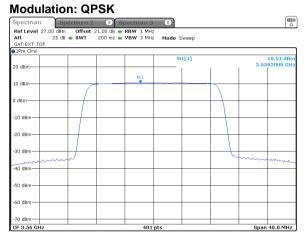






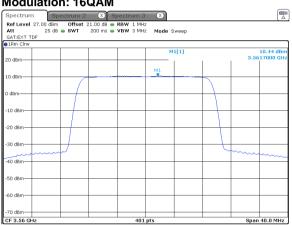
Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density			
Test procedure:	Section 96.41(e)(3)			
Test mode:	Compliance	Verdict: PASS		
Date(s):	07-Feb-22	verdict:	PA33	
Temperature: 24 °C	Relative Humidity: 55 %	Air Pressure: 1011 hPa	Power: 48 VAC	
Remarks:				

Plot 7.1.8 Peak spectral power density at low frequency

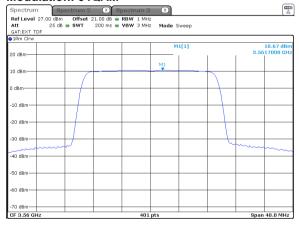


20 MHz

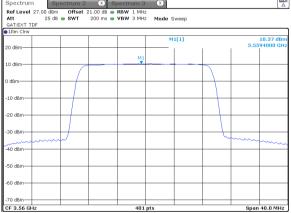




**Modulation: 64QAM** 



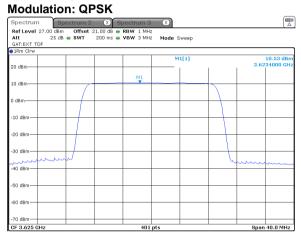






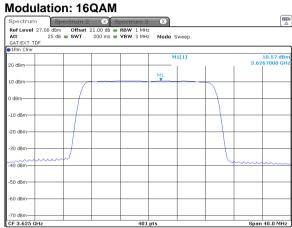
Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density			
Test procedure:	Section 96.41(e)(3)			
Test mode:	Compliance	Verdict: PASS		
Date(s):	07-Feb-22	verdict.	PASS	
Temperature: 24 °C	Relative Humidity: 55 %	Air Pressure: 1011 hPa	Power: 48 VAC	
Remarks:				

Plot 7.1.9 Peak spectral power density at mid frequency

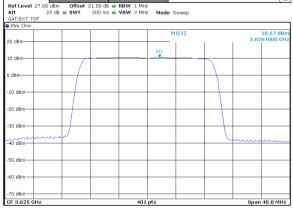


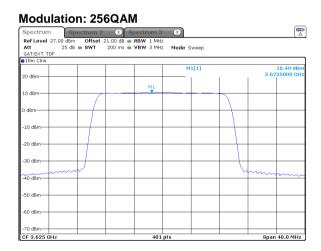
20 MHz

**Modulation: 16QAM** 



**Modulation: 64QAM** 

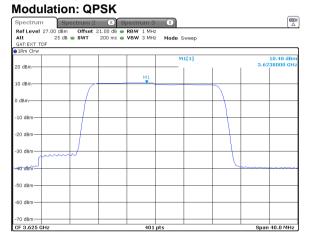






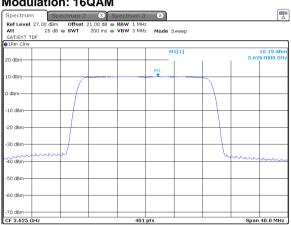
Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density			
Test procedure:	Section 96.41(e)(3)			
Test mode:	Compliance	Verdict: PASS		
Date(s):	07-Feb-22	verdict.	PASS	
Temperature: 24 °C	Relative Humidity: 55 %	Air Pressure: 1011 hPa	Power: 48 VAC	
Remarks:				

Plot 7.1.10 Peak spectral power density at mid frequency

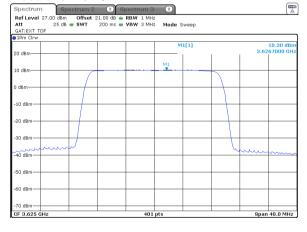


20 MHz

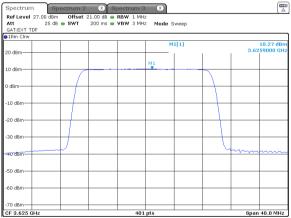
**Modulation: 16QAM** 







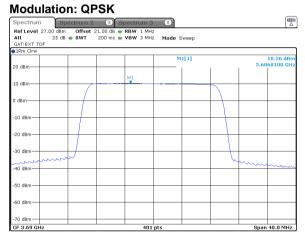
## Modulation: 256QAM





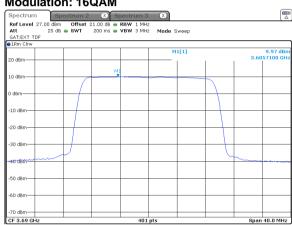
Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density			
Test procedure:	Section 96.41(e)(3)			
Test mode:	Compliance	Verdict:	PASS	
Date(s):	07-Feb-22	verdict.	PASS	
Temperature: 24 °C	Relative Humidity: 55 %	Air Pressure: 1011 hPa	Power: 48 VAC	
Remarks:				

Plot 7.1.11 Peak spectral power density at high frequency

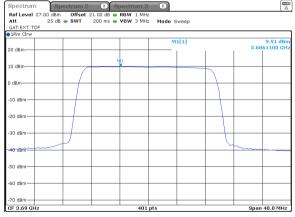


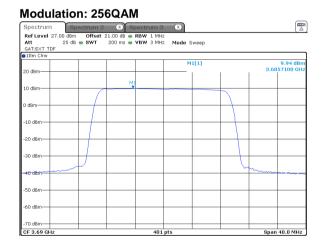
20 MHz

**Modulation: 16QAM** 



**Modulation: 64QAM** 

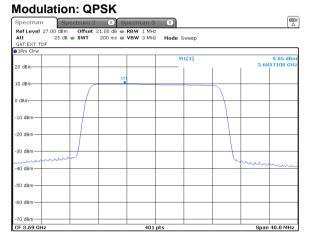






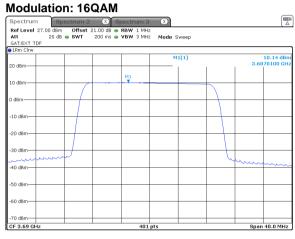
Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict: PASS	
Date(s):	07-Feb-22	verdict.	PASS
Temperature: 24 °C	Relative Humidity: 55 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

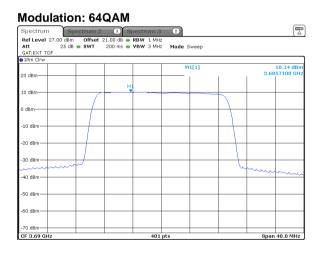
Plot 7.1.12 Peak spectral power density at high frequency

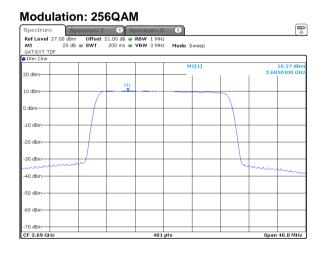


20 MHz

. . . . . .



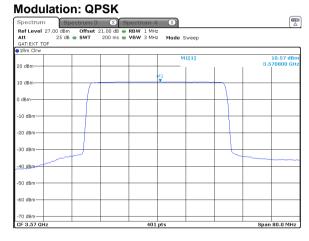






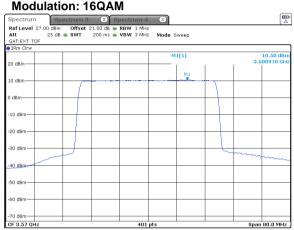
Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density			
Test procedure:	Section 96.41(e)(3)			
Test mode:	Compliance	Verdict: PASS		
Date(s):	07-Feb-22	verdict:	PA33	
Temperature: 24 °C	Relative Humidity: 55 %	Air Pressure: 1011 hPa	Power: 48 VAC	
Remarks:				

Plot 7.1.13 Peak spectral power density at low frequency

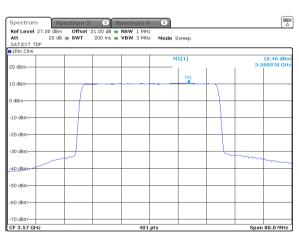


40 MHz

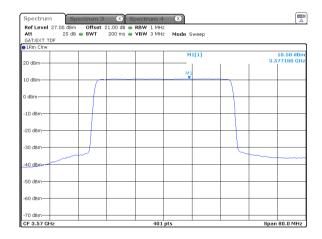




**Modulation: 64QAM** 



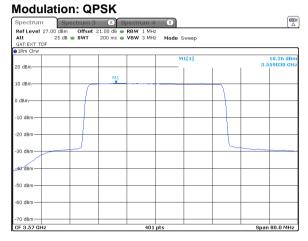
Modulation: 256QAM





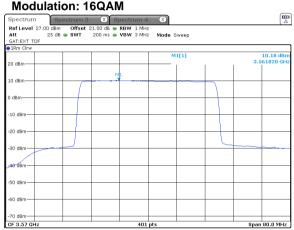
Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density			
Test procedure:	Section 96.41(e)(3)			
Test mode:	Compliance	Vordict	DACC	
Date(s):	07-Feb-22	Verdict: PASS		
Temperature: 24 °C	Relative Humidity: 55 %	Air Pressure: 1011 hPa	Power: 48 VAC	
Remarks:				

Plot 7.1.14 Peak spectral power density at low frequency

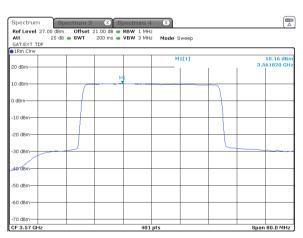


40 MHz

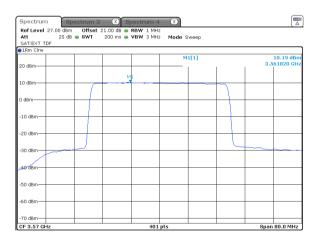




**Modulation: 64QAM** 



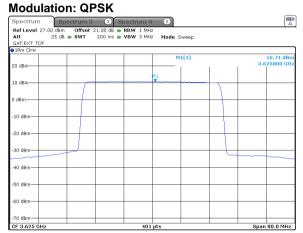
Modulation: 256QAM



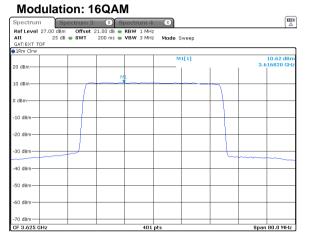


Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density				
Test procedure:	Section 96.41(e)(3)				
Test mode:	Compliance	Vardiot	DACC		
Date(s):	07-Feb-22	Verdict: PASS			
Temperature: 24 °C	Relative Humidity: 55 %	Air Pressure: 1011 hPa	Power: 48 VAC		
Remarks:	-				

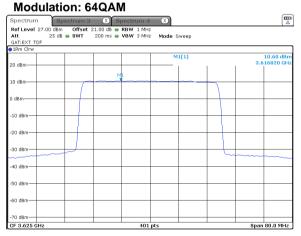
Plot 7.1.15 Peak spectral power density at mid frequency

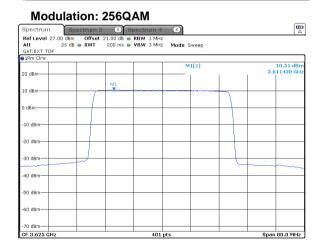


40 MHz





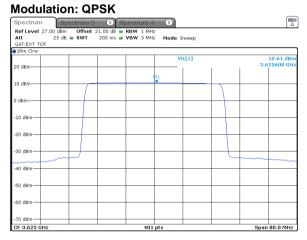






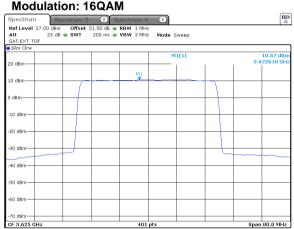
Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density			
Test procedure:	Section 96.41(e)(3)			
Test mode:	Compliance	Vordict	DACC	
Date(s):	07-Feb-22	Verdict: PASS		
Temperature: 24 °C	Relative Humidity: 55 %	Air Pressure: 1011 hPa	Power: 48 VAC	
Remarks:				

Plot 7.1.16 Peak spectral power density at mid frequency



40 MHz

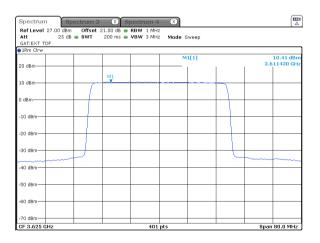
**Modulation: 16QAM** 



**Modulation: 64QAM** 



Modulation: 256QAM



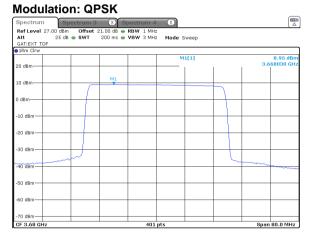


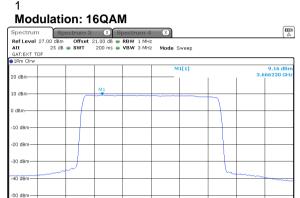
Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density				
Test procedure:	Section 96.41(e)(3)				
Test mode:	Compliance	Verdict:	PASS		
Date(s):	07-Feb-22	verdict: PASS			
Temperature: 24 °C	Relative Humidity: 55 %	Air Pressure: 1011 hPa	Power: 48 VAC		
Remarks:					

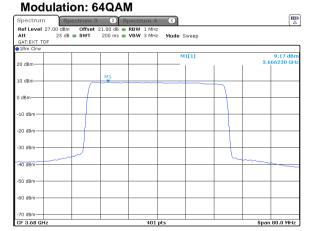
Plot 7.1.17 Peak spectral power density at high frequency

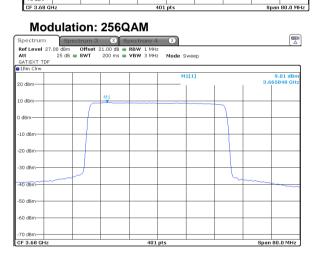
40 MHz

CHANNEL SPACING: ANTENNA CHAIN:





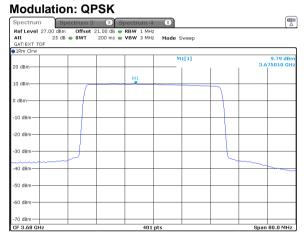






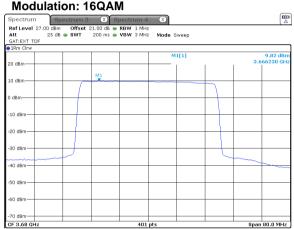
Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density				
Test procedure:	Section 96.41(e)(3)				
Test mode:	Compliance	Vordict	DACC		
Date(s):	07-Feb-22	Verdict: PASS			
Temperature: 24 °C	Relative Humidity: 55 %	Air Pressure: 1011 hPa	Power: 48 VAC		
Remarks:					

Plot 7.1.18 Peak spectral power density at high frequency

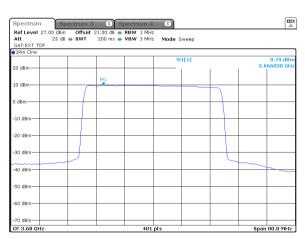


40 MHz

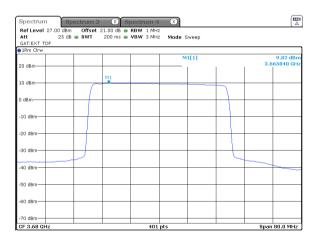
**Modulation: 16QAM** 



**Modulation: 64QAM** 



Modulation: 256QAM





Test specification:	Section 96.41(g), Peak-to- average power ratio			
Test procedure:	Section 96.41(g)			
Test mode:	Compliance	Verdict:	PASS	
Date(s):	08-Feb-22	verdict: PASS		
Temperature: 24.3. °C	Relative Humidity: 48 %	Air Pressure: 1010 hPa	Power: 48 VAC	
Remarks:				

## 7.2 Peak-to-average power ratio (PAPR) test

#### 7.2.1 General

This test was performed to measure the peak to average power ratio at RF antenna connector. Specification test limits are given in Table 7.2.1.

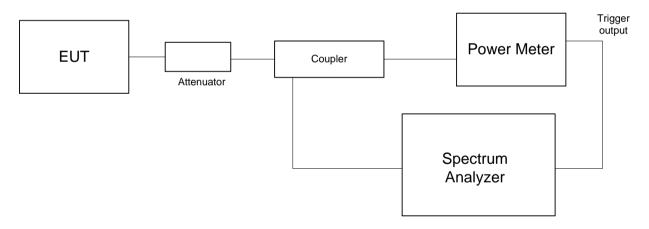
Table 7.2.1 Peak-to-average power ratio limits

Assigned frequency renge MU-	Peak to average power ratio limit		
Assigned frequency range, MHz	Probability, %	dB	
3550.0 - 3700.0	0.1	13.0	

#### 7.2.2 Test procedure

- 7.2.2.1 The EUT was set up as shown in Figure 7.2.1, energized and its proper operation was checked.
- 7.2.2.2 The EUT was adjusted to produce maximum available to the end user RF output power.
- **7.2.2.3** The peak to average power ratio was measured with power meter as provided in Table 7.2.2 and the associated plots.

Figure 7.2.1 Peak-to-average power ratio test setup





Test specification:	Section 96.41(g), Peak-to- average power ratio			
Test procedure:	Section 96.41(g)			
Test mode:	Compliance	Verdict:	PASS	
Date(s):	08-Feb-22	verdict: PASS		
Temperature: 24.3. °C	Relative Humidity: 48 %	Air Pressure: 1010 hPa	Power: 48 VAC	
Remarks:				

### Table 7.2.2 Peak-to-average power ratio test results

OPERATING FREQUENCY RANGE: 3550 - 3700 MHz **DETECTOR USED:** Peak/Average MODULATING SIGNAL: TRANSMITTER OUTPUT POWER SETTINGS: PRBS

TRANSMITTER OUTPUT POWER SETTINGS:			iviaximum		
Carrier frequency, MHz	Peak to average ratio, dB	Limit, dBm	Margin, dB	Verdict	
Channel spacing 10 M	lHz				
Modulation QPSK					
3555.0	8.67	13.0	-4.33	Pass	
3625.0	8.81	13.0	-4.19	Pass	
3695.0	8.75	13.0	-4.25	Pass	
Modulation 16QAM					
3555.0	8.43	13.0	-4.57	Pass	
3625.0	8.55	13.0	-4.45	Pass	
3695.0	8.52	13.0	-4.48	Pass	
Modulation 64QAM					
3555.0	8.43	13.0	-4.57	Pass	
3625.0	8.55	13.0	-4.45	Pass	
3695.0	8.52	13.0	-4.48	Pass	
Modulation 256QAM	Modulation 256QAM				
3555.0	8.43	13.0	-4.57	Pass	
3625.0	8.52	13.0	-4.48	Pass	
3695.0	8.49	13.0	-4.51	Pass	



Test specification:	Section 96.41(g), Peak-to- average power ratio				
Test procedure:	Section 96.41(g)				
Test mode:	Compliance	Verdict:	PASS		
Date(s):	08-Feb-22	verdict: PASS			
Temperature: 24.3. °C	Relative Humidity: 48 %	Air Pressure: 1010 hPa	Power: 48 VAC		
Remarks:					

## Table 7.2.3 Peak-to-average power ratio test results (continue)

OPERATING FREQUENCY RANGE:

DETECTOR USED:

MODULATING SIGNAL:

TRANSMITTER OUTPUT POWER SETTINGS:

3550 – 3700 MHz
Peak/Average
PRBS
Maximum

Channel spacing 20 MH	<del>l</del> z			
Modulation QPSK				
3560.0	8.58	13.0	-4.42	Pass
3625.0	8.46	13.0	-4.54	Pass
3690.0	8.52	13.0	-4.48	Pass
Modulation 16QAM				
3560.0	8.14	13.0	-4.86	Pass
3625.0	8.12	13.0	-4.88	Pass
3690.0	8.53	13.0	-4.47	Pass
Modulation 64QAM				
3560.0	8.17	13.0	-4.83	Pass
3625.0	8.23	13.0	-4.77	Pass
3690.0	8.23	13.0	-4.77	Pass
Modulation 256QAM				
3560.0	8.26	13.0	-4.74	Pass
3625.0	8.32	13.0	-4.68	Pass
3690.0	8.32	13.0	-4 68	Pass



Test specification:	Section 96.41(g), Peak-to- average power ratio				
Test procedure:	Section 96.41(g)				
Test mode:	Compliance	Verdict:	PASS		
Date(s):	08-Feb-22	verdict: PASS			
Temperature: 24.3. °C	Relative Humidity: 48 %	Air Pressure: 1010 hPa	Power: 48 VAC		
Remarks:					

## Table 7.2.4 Peak-to-average power ratio test results (continue)

OPERATING FREQUENCY RANGE: 3550 – 3700 MHz
DETECTOR USED: Peak/Average
MODULATING SIGNAL: PRBS
TRANSMITTER OUTPUT POWER SETTINGS: Maximum

Channel spacing 40 MH	·lz			
Modulation QPSK				
3570.0	9.50	13.0	-3.50	Pass
3625.0	9.46	13.0	-3.54	Pass
3680.0	9.44	13.0	-3.56	Pass
Modulation 16QAM		•		
3570.0	9.35	13.0	-3.65	Pass
3625.0	9.32	13.0	-3.68	Pass
3680.0	9.25	13.0	-3.75	Pass
Modulation 64QAM				
3570.0	9.36	13.0	-3.64	Pass
3625.0	9.30	13.0	-3.70	Pass
3680.0	9.24	13.0	-3.76	Pass
Modulation 256QAM				
3570.0	9.36	13.0	-3.64	Pass
3625.0	9.32	13.0	-3.68	Pass
3680.0	9.22	13.0	-3.78	Pass

## Reference numbers of test equipment used

HL 3301	HL 3302	HL 4355	HL 4366	HL 6143		

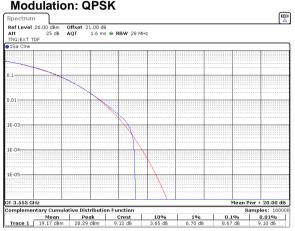
Full description is given in Appendix A.



Test specification:	Section 96.41(g), Peak-to- average power ratio			
Test procedure:	Section 96.41(g)			
Test mode:	Compliance	Verdict:	PASS	
Date(s):	08-Feb-22	verdict.	PASS	
Temperature: 24.3. °C	Relative Humidity: 48 %	Air Pressure: 1010 hPa	Power: 48 VAC	
Remarks:				

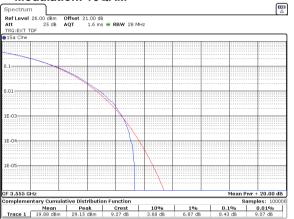
Plot 7.2.1 Peak-to-average power ratio test results at low frequency

**Modulation: QPSK** 

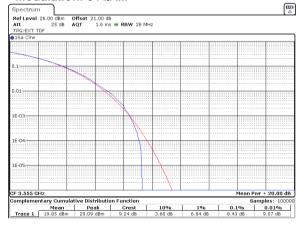


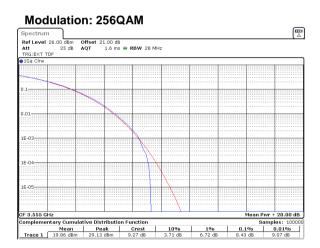
10 MHz





Modulation: 64QAM



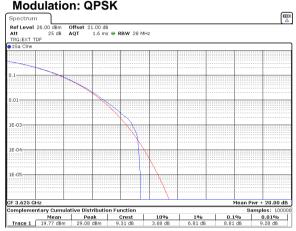




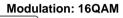
Test specification:	Section 96.41(g), Peak-to- average power ratio		
Test procedure:	Section 96.41(g)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	08-Feb-22	verdict.	PASS
Temperature: 24.3. °C	Relative Humidity: 48 %	Air Pressure: 1010 hPa	Power: 48 VAC
Remarks:			

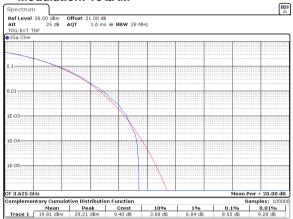
Plot 7.2.2 Peak-to-average power ratio test results at mid frequency

**Modulation: QPSK** 

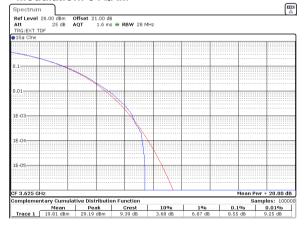


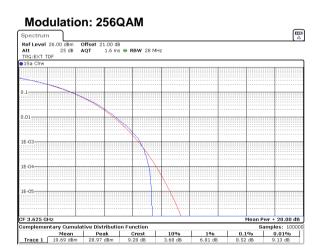
10 MHz





Modulation: 64QAM

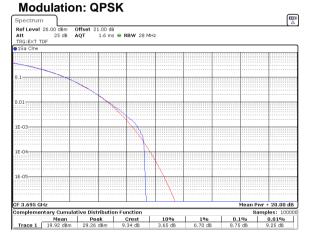






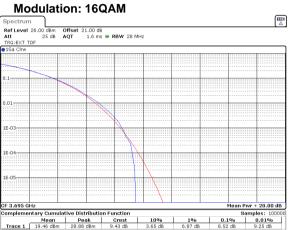
Test specification:	Section 96.41(g), Peak-to- average power ratio		
Test procedure:	Section 96.41(g)		
Test mode:	Compliance	Verdict: PASS	
Date(s):	08-Feb-22	verdict.	PASS
Temperature: 24.3. °C	Relative Humidity: 48 %	Air Pressure: 1010 hPa	Power: 48 VAC
Remarks:			

Plot 7.2.3 Peak-to-average power ratio test results at high frequency

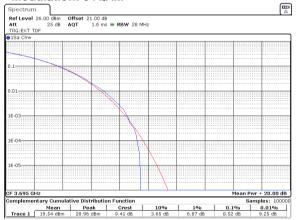


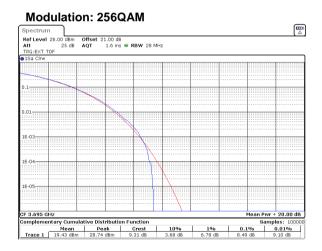
1 Modulation: 160

10 MHz







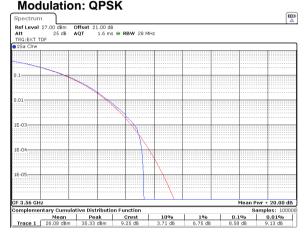




Test specification:	Section 96.41(g), Peak-to- average power ratio		
Test procedure:	Section 96.41(g)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	08-Feb-22	verdict.	PASS
Temperature: 24.3. °C	Relative Humidity: 48 %	Air Pressure: 1010 hPa	Power: 48 VAC
Remarks:			

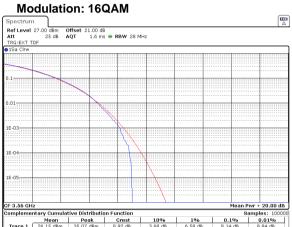
Plot 7.2.4 Peak-to-average power ratio test results at low frequency

CHANNEL SPACING: ANTENNA PORT: Modulation: QPSK

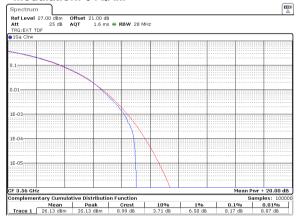


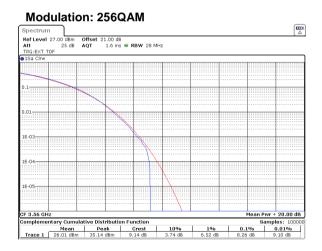
1 Modulation: 160Al

20 MHz



Modulation: 64QAM



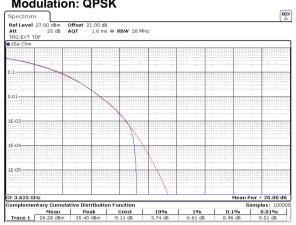




Test specification:	Section 96.41(g), Peak-to- average power ratio		
Test procedure:	Section 96.41(g)		
Test mode:	Compliance	Verdict: PASS	
Date(s):	08-Feb-22	verdict.	PASS
Temperature: 24.3. °C	Relative Humidity: 48 %	Air Pressure: 1010 hPa	Power: 48 VAC
Remarks:			

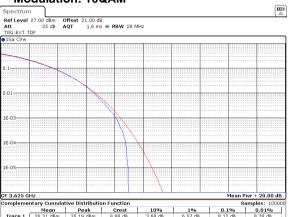
Plot 7.2.5 Peak-to-average power ratio test results at mid frequency

**Modulation: QPSK** 

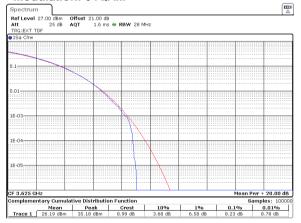


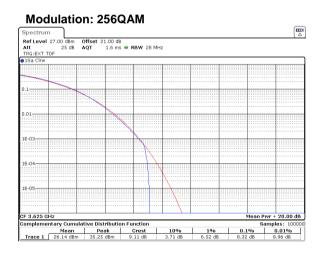
**Modulation: 16QAM** 

20 MHz



**Modulation: 64QAM** 



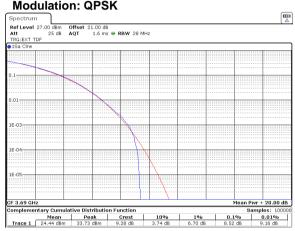




Test specification:	Section 96.41(g), Peak-to- average power ratio			
Test procedure:	Section 96.41(g)			
Test mode:	Compliance	Verdict:	PASS	
Date(s):	08-Feb-22	verdict.	PASS	
Temperature: 24.3. °C	Relative Humidity: 48 %	Air Pressure: 1010 hPa	Power: 48 VAC	
Remarks:				

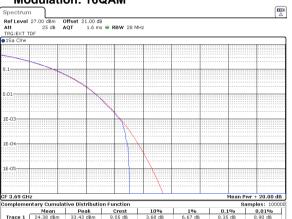
Plot 7.2.6 Peak-to-average power ratio test results at high frequency

**Modulation: QPSK** 

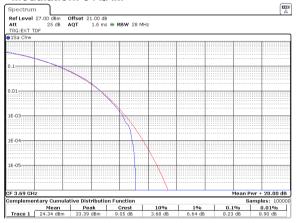


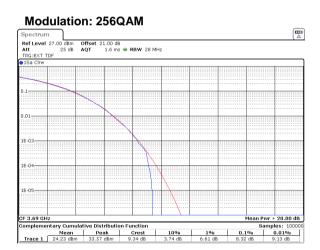


20 MHz







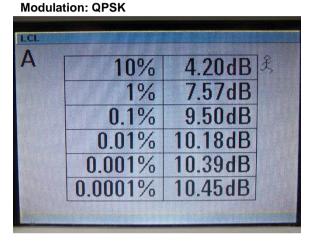


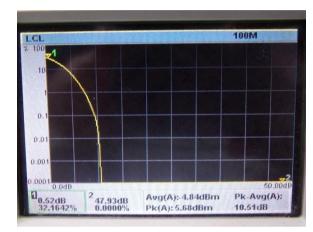


Test specification:	Section 96.41(g), Peak-to- average power ratio		
Test procedure:	Section 96.41(g)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	08-Feb-22	verdict.	PASS
Temperature: 24.3. °C	Relative Humidity: 48 %	Air Pressure: 1010 hPa	Power: 48 VAC
Remarks:	-		

Plot 7.2.7 Peak-to-average power ratio test results at low frequency

CHANNEL SPACING: 40 MHz
ANTENNA PORT: 1





**Modulation: 16QAM** 

