

# EMC TEST REPORT – 402594-1TRFEMC

Applicant:

**Blinq Wireless, Inc**

Product:

**Base station**

Model:

**FW600-B48-00-NA**

Specifications:

- ◆ FCC 47 CFR Part 15, Subpart B – Verification
- ◆ ICES-003 Issue 6 January 2016

Date of issue: August 18, 2020

**Fahar Abdul Sukkoor, EMC/RF Specialist**

Tested by



Signature

**Tarek Elkholy, EMC/RF Specialist**

Reviewed by



Signature

## Lab locations

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Facilities	Cambridge site: 1-130 Saltsman Drive Cambridge, Ontario Canada N3E 0B2  Tel: +1 519 650 4811	
Test site registration	<b>Organization</b> FCC/ISED	<b>Recognition numbers and location</b> FCC: CA2040; IC: 2040A-4 (Ottawa/Almonte); FCC: CA2041; IC: 2040G-5 (Montreal); CA0101 (Cambridge)
Website	<a href="http://www.nemko.com">www.nemko.com</a>	

## Limits of responsibility

Note that the results contained in this report relate only to the items tested and were obtained in the period between the date of initial receipt of samples and the date of issue of the report.

This test report has been completed in accordance with the requirements of ISO/IEC 17025. All results contained in this report are within Nemko Canada's ISO/IEC 17025 accreditation.

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## Section 1 Report summary

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### 1.1 Test specifications

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FCC 47 CFR Part 15, Subpart B – Verification	Title 47: Telecommunication; Part 15—Radio Frequency Devices
ICES-003 Issue 6 January 2016	Information Technology Equipment (ITE) – Limits and methods of measurement

### 1.2 Exclusions

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None

### 1.3 Statement of compliance

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In the configuration tested, the EUT was found compliant.

Unless noted in section 1.2, all testing was performed against all relevant requirements of the test standard. Results obtained indicate that the product under test complies in full with the requirements tested. The test results relate only to the items tested.

See “Summary of test results” for full details.

### 1.4 Test report revision history

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**Table 1.4-1:** Test report revision history

Revision #	Date of issue	Details of changes made to test report
TRF	August 18, 2020	Original report issued

## Section 2 Engineering considerations

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### 2.1 Modifications incorporated in the EUT for compliance

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There were no modifications performed to the EUT during this assessment.

### 2.2 Technical judgment

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None

### 2.3 Deviations from laboratory tests procedures

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No deviations were made from laboratory procedures.

## Section 3 Test conditions

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### 3.1 Atmospheric conditions

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Temperature	15 °C – 35 °C
Relative humidity	30 % – 60 %
Air pressure	86 kPa (860 mbar) – 106 kPa (1060 mbar)

When it is impracticable to carry out tests under these conditions, a note to this effect stating the ambient temperature and relative humidity during the tests shall be recorded and stated.

### 3.2 Power supply range

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The normal test voltage for equipment to be connected to the mains shall be the nominal mains voltage. For the purpose of the present document, the nominal voltage shall be the declared voltage, or any of the declared voltages  $\pm 5\%$ , for which the equipment was designed.

## Section 4 Measurement uncertainty

### 4.1 Uncertainty of measurement

Nemko Canada Inc. has calculated measurement uncertainty and is documented in EMC/MUC/001 "Uncertainty in EMC measurements." Measurement uncertainty was calculated using the methods described in CISPR 16-4-2 Specification for radio disturbance and immunity measuring apparatus and methods – Part 4-2: Uncertainties, statistics and limit modelling – Measurement instrumentation uncertainty. The expression of Uncertainty in EMC Testing. Measurement uncertainty calculations assume a coverage factor of K=2 with 95% certainty.

**Table 4.1-1: Measurement uncertainty calculations**

Measurement		$U_{\text{cisp}} \text{ dB}$	$U_{\text{lab}} \text{ dB}$			
			Ottawa	Montreal	Cambridge	Almonte
Conducted disturbance at AC mains and other port power using a V-AMN	(9 kHz to 150 kHz)	3.8	2.9	2.8	2.8	N/A
	(150 kHz to 30 MHz)	3.4	2.3	2.2	2.2	N/A
Conducted disturbance at telecommunication port using AAN	(150 kHz to 30 MHz)	5.0	4.3	4.3	4.3	N/A
Conducted disturbance at telecommunication port using CVP	(150 kHz to 30 MHz)	3.9	2.9	2.8	2.8	N/A
Conducted disturbance at telecommunication port using CP	(150 kHz to 30 MHz)	2.9	1.4	1.1	1.1	N/A
Conducted disturbance at telecommunication port using CP and CVP	(150 kHz to 30 MHz)	4.0	3.1	3.0	3.0	N/A
Disturbance power	(30 MHz to 300 MHz)	4.0	3.7	3.7	3.7	N/A
Radiated disturbance (electric field strength at an OATS or in a SAC)	(30 MHz to 1 GHz)	6.3	5.7	5.5	5.5	5.5
Radiated disturbance (electric field strength in a FAR)	(1 GHz to 6 GHz)	5.2	4.8	5.1	4.8	N/A
Radiated disturbance (electric field strength in a FAR)	(6 GHz to 18 GHz)	5.5	5.1	5.0	4.7	N/A

Notes: Compliance assessment:

If  $U_{\text{lab}}$  is less than or equal to  $U_{\text{cisp}}$  then:

- compliance is deemed to occur is no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit

If  $U_{\text{lab}}$  is greater than  $U_{\text{cisp}}$  then:

- compliance is deemed to occur is no measured disturbance level, increased by  $(U_{\text{lab}} - U_{\text{cisp}})$ , exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level, increased by  $(U_{\text{lab}} - U_{\text{cisp}})$ , exceeds the disturbance limit

## Section 5 Information provided by the applicant

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### 5.1 Disclaimer

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This section contains information provided by the applicant and has been utilized to support the test plan. Inaccurate information provided by the applicant can affect the validity of the results contained within this test report. Nemko accepts no responsibility for the information contained within this section and the impact it may have on the test plan and resulting measurements.

### 5.2 Applicant/Manufacture

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Applicant name	Blinq Wireless, Inc.
Applicant address	140 Renfrew Drive Suite 205 Markham ON L3R 6B3 Canada
Manufacture name	Same as applicant
Manufacture address	Same as applicant

### 5.3 EUT information

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Product	Base station
Model	FW600
Serial number	FE-20330001
Power requirements	48 V <sub>DC</sub> (via external 100–240 V <sub>AC</sub> , 50/60 Hz power adapter)
Description/theory of operation	The BLINQ FW-600 system is a tri-sector and tri-carrier Long-Term Evolution (LTE) Evolved Node B (eNB) with the capability to operate in the following bands: 42, 43, 46 and 48 (Citizens Broadband Radio Service (CBRS)). With a distinctive feature set and integration level, the FW-600 brings an ideal solution to an “install anywhere” micro-base transceiver station (micro-BTS) that fully serves private networks, fixed wireless access and mobility use cases
Operational frequencies	Highest digital clock frequency: 1200 MHz
Software details	Version:2.1.1_1

## 5.4 EUT setup details

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### 5.4.1 EUT Exercise and monitoring

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**Methods used to exercise the EUT and all relevant ports:**

- The EUT was controlled from laptop via Ethernet using Teraterm Link.
- The EUT is set to receiver mode

**Configuration details:**

- The EUT setup in a configuration that was expected to produce the highest amplitude emissions relative to the limit and that satisfy normal operation/installation practice by the end user.
- The type and construction of cables used in the measurement set-up were consistent with normal or typical use. Cables with mitigation features (for example, screening, tighter/more twists per length, ferrite beads) have been noted below:
- The EUT was setup in a manner that was consistent with its typical arrangement and use. The measurement arrangement of the EUT, local AE and associated cabling was representative of normal practice. Any deviations from typical arrangements have been noted below:

**Monitoring details:**

- Ethernet port is exercised and monitored by pinging into IP address of EUT

## 5.4.2 EUT test configuration

Table 5.4-1: EUT interface ports

Description	Qty.
DC power input	1
Ethernet port	1

Table 5.4-2: Support equipment

Description	Brand name	Model
Power adaptor	Mean Well	HLG-600H-48
laptop	Dell Latitude	E6440

Table 5.4-3: Inter-connection cables

Cable description	From	To	Length (m)
DC power input	EUT	Power adaptor	>3
AC power input	Power adaptor	AC mains	>3
Ethernet port	EUT	laptop	>3

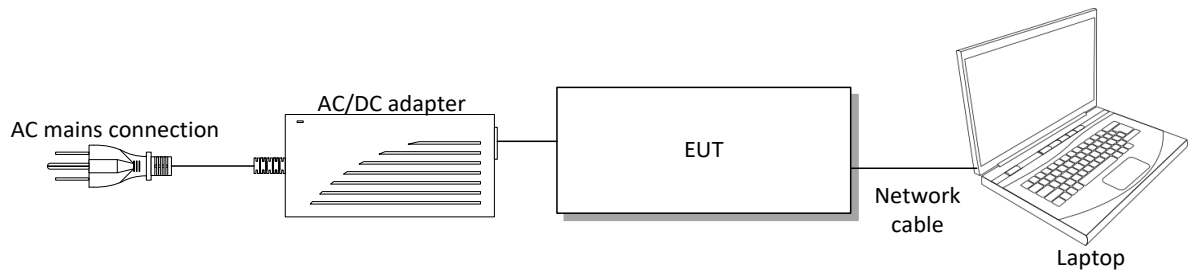


Figure 5.4-1: block diagram

## Section 6 Summary of test results

### 6.1 Testing location

Test location (s)	Cambridge
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### 6.2 Testing period

Test start date	August 17, 2020	Test end date	August 17, 2020
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### 6.3 Sample information

Receipt date	August 17, 2020	Nemko sample ID number	1
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### 6.4 North America test results

**Table 6.4-1: Result summary for emissions**

Standard	Clause	Test description	Verdict
FCC 47 CFR Part 15, Subpart B	§15.109	Radiated emissions limits <sup>1</sup>	Pass
FCC 47 CFR Part 15, Subpart B	§15.107	Conducted emissions limits (AC mains) <sup>1</sup>	Pass <sup>2</sup>
ICES-003 Issue 6	6.1	AC Power Line Conducted Emissions Limits <sup>1</sup>	Pass <sup>2</sup>
ICES-003 Issue 6	6.2	Radiated Emissions Limits <sup>1</sup>	Pass

Notes: <sup>1</sup> Product classification A

<sup>2</sup> The EUT is DC powered

## Section 7 Terms and definitions

### 7.1 Product classifications and definitions

#### 7.1.1 Title 47: Telecommunication – Part 15-Radio Frequency devices, Subpart A – General – Equipment classification

Class A digital device	A digital device that is marketed for use in a commercial, industrial or business environment, exclusive of a device which is marketed for use by the general public or is intended to be used in the home.
Class B digital device	<p>A digital device that is marketed for use in a residential environment notwithstanding use in commercial, business and industrial environments. Examples of such devices include, but are not limited to, personal computers, calculators, and similar electronic devices that are marketed for use by the general public.</p> <p>Note: The responsible party may also qualify a device intended to be marketed in a commercial, business or industrial environment as a Class B device, and in fact is encouraged to do so, provided the device complies with the technical specifications for a Class B digital device. In the event that a particular type of device has been found to repeatedly cause harmful interference to radio communications, the Commission may classify such a digital device as a Class B digital device, regardless of its intended use.</p>

#### 7.1.2 ICES-003 – Equipment classification

Class B ITE	limits of radio noise for ITE for residential operation
Class A ITE	limits of radio noise for ITE for non-residential operation
Conditions	<p>Only ITE intended strictly for non-residential use in commercial, industrial or business environments, and whose design or other characteristics strongly preclude the possibility of its use in a residential environment, shall be permitted to comply with the less stringent Class A limits.</p> <p>All ITE that cannot meet the conditions for Class A operation shall comply with the Class B limits.</p> <p>The ITE shall comply with both the power line – conducted and the radiated emissions limits within the same Class, with no intermixing.</p>

## 7.2 General definitions

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### 7.2.1 Title 47: Telecommunication – Part 15-Radio Frequency devices, Subpart A – General – Digital device definitions

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Digital device (Previously defined as a computing device)

An unintentional radiator (device or system) that generates and uses timing signals or pulses at a rate in excess of 9,000 pulses (cycles) per second and uses digital techniques; inclusive of telephone equipment that uses digital techniques or any device or system that generates and uses radio frequency energy for the purpose of performing data processing functions, such as electronic computations, operations, transformations, recording, filing, sorting, storage, retrieval, or transfer. A radio frequency device that is specifically subject to an emanation requirement in any other FCC Rule part or an intentional radiator subject to subpart C of this part that contains a digital device is not subject to the standards for digital devices, provided the digital device is used only to enable operation of the radio frequency device and the digital device does not control additional functions or capabilities.

Note: Computer terminals and peripherals that are intended to be connected to a computer are digital devices.

### 7.2.2 ICES-003 – Definitions

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Information technology equipment (ITE)

Information Technology Equipment (ITE) is defined as devices or systems that use digital techniques for purposes such as data processing and computation. ITE is any unintentional radiator (device or system) that generates and/or uses timing signals or pulses having a rate of at least 9 kHz and employs digital techniques for purposes such as computation, display, data processing and storage, and control.

## Section 8 Testing data

### 8.1 Radiated emissions

#### 8.1.1 References and limits

- FCC 47 CFR Part 15, Subpart B: Clause §15.109 (Test method ANSI C63.4:2014)
- ICES-003: Section 6.2

**Table 8.1-1:** Requirements as per for radiated emissions for Class A

Facility	Frequency range [MHz]	Distance [m]	Measurement Detector type/ bandwidth	limits [dBμV/m]
FCC Part 15 Subpart B and ICES-003				
OATS/SAC	30–88	3	Quasi Peak/120 kHz	49.5
	88–216			54.0
	216–960			56.9
	960–1000			60.0
FSOATS	>1000	3	Linear average/1 MHz	60.0
			Peak/1 MHz	80.0

- Notes:
- OATS – Open Area Test Site, SAC – Semi Anechoic Chamber, FSOATS – Free Space Open Area Test Site
  - Where there is a step in the relevant limit, the lower value was applied at the transition frequency.

### 8.1.2 Test summary

Verdict	Pass		
Tested by	Fahar Abdul Sukkoor	Test date	August 17, 2020

### 8.1.3 Notes

- The spectral plots within this section are a summation of vertical and horizontal scans. The spectral plots within this section have been corrected with all applicable transducer factors.
- Where tabular data has not been provided, no emissions were observed within 10 dB of the specified limit when measured with the appropriate detector. Additionally; where less than 6 measurements per detector has been provided, fewer than 6 emissions were observed within 10 dB of the specified limit when measured with the appropriate detector.
- The spectrum was scanned to 18 GHz according to the EUT highest digital operating frequency

**Table 8.1-2:** Maximum frequency test range based on highest digital operating frequency

Highest internal frequency [F <sub>x</sub> ]	Highest measured frequency
F <sub>x</sub> ≤ 108 MHz	1 GHz
108 MHz < F <sub>x</sub> ≤ 500 MHz	2 GHz
500 MHz < F <sub>x</sub> ≤ 1 GHz	5 GHz
F <sub>x</sub> > 1 GHz	5 × F <sub>x</sub> up to a maximum of 40 GHz (ANSI C63.4)

Notes: Highest internal frequency [F<sub>x</sub>] – highest fundamental frequency generated or used within the EUT or highest frequency at which it operates. This includes frequencies which are solely used within an integrated circuit.  
For FM and TV broadcast receivers F<sub>x</sub> is determined from the highest frequency generated or used excluding the local oscillator and tuned frequencies.

### 8.1.4 Setup details

Port under test	Enclosure Port
EUT power input during test	48 V <sub>DC</sub> (via external 100–240 V <sub>AC</sub> , 50/60 Hz power adapter)
EUT setup configuration	Table top
Test facility	Semi anechoic chamber
Measuring distance	3 m
Antenna height variation	1–4 m
Turn table position	0–360°
Measurement details	A preview measurement was generated with receiver in continuous scan or sweep mode while the EUT was rotated and antenna adjusted to maximize radiated emission. Emissions detected within 10 dB or above the limit were re-measured with the appropriate detector against the correlating limit and recorded as the final measurement.

Receiver/spectrum analyzer settings.

Resolution bandwidth	Measurements below 1 GHz: 120 kHz, Measurements above 1 GHz: 1 MHz
Video bandwidth	Measurements below 1 GHz: 300 kHz, Measurements above 1 GHz: 3 MHz
Detector mode	Measurements below 1 GHz: Peak (Preview), Quasi-peak (Final) Measurements above 1GHz: Peak (Preview), Peak and CAverage (Final)
Trace mode	Max Hold
Measurement time	100 ms

**Table 8.1-3: Radiated emissions equipment list**

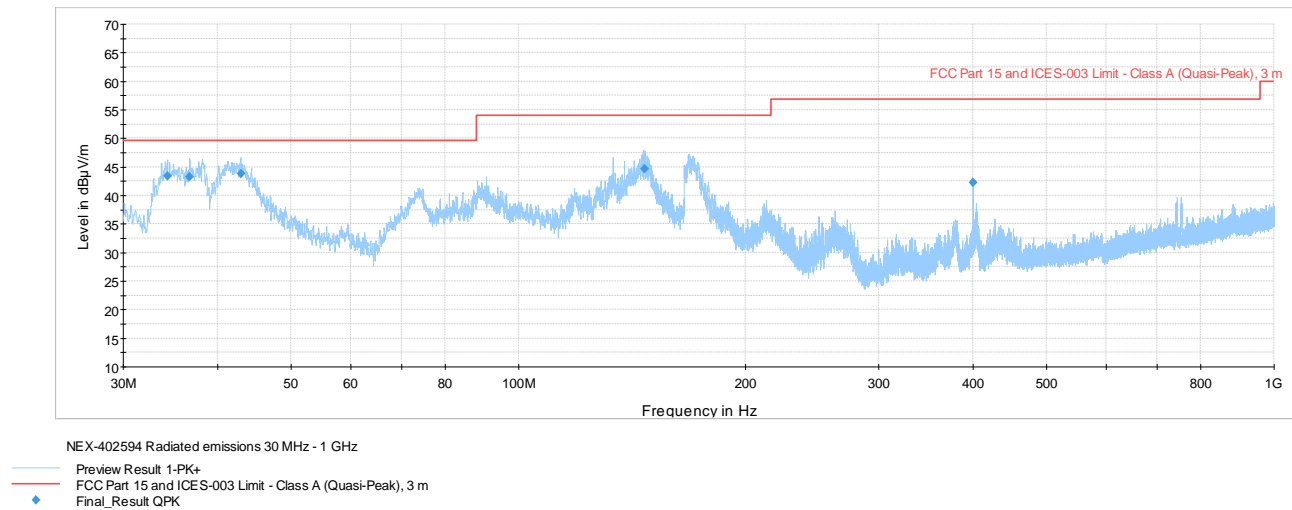
Equipment	Manufacturer	Model no.	Asset no.	Cal cycle	Next cal.
3 m EMI test chamber	TDK	SAC-3	FA003012	1 year	October 10, 2020
Flush mount turntable	SUNAR	FM2022	FA003006	—	NCR
Controller	SUNAR	SC110V	FA002976	—	NCR
Antenna mast	SUNAR	TLT2	FA003007	—	NCR
AC Power source	Chroma	0	FA003020	—	NCR
Receiver/spectrum analyzer	Rohde & Schwarz	ESR26	FA002969	1 year	December 04, 2020
Horn antenna (1–18 GHz)	ETS Lindgren	3117	FA002911	1 year	September 11, 2020
Preamplifier (1–18 GHz)	ETS Lindgren	124334	FA002956	1 year	September 26, 2020
Bilog antenna (30–2000 MHz)	SUNAR	JB1	FA003010	1 year	September 17, 2020

Notes: NCR - no calibration required

**Table 8.1-4: Radiated emissions test software details**

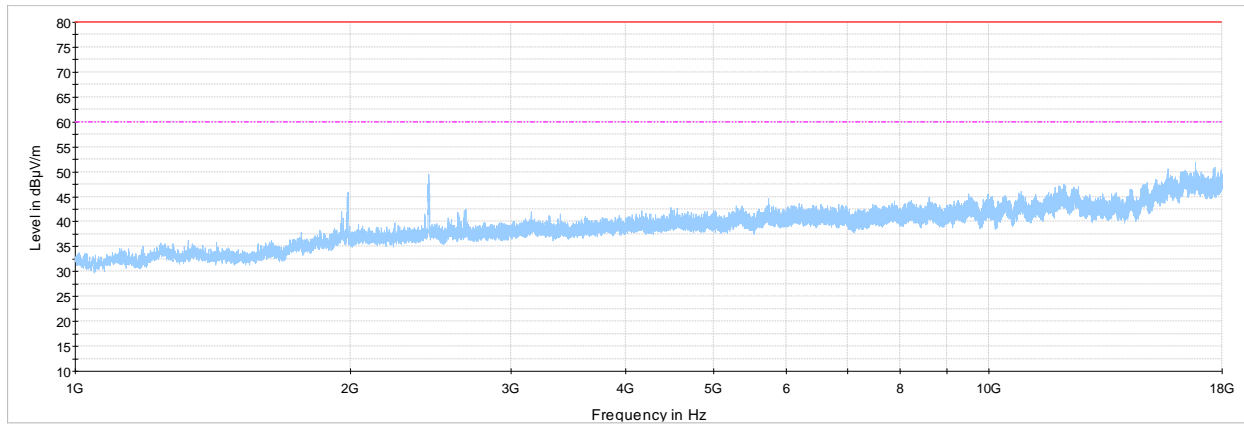
Manufacturer of Software	Details
Rohde & Schwarz	EMC32, Software for EMC Measurements, Version 10.60.00

## 8.1.5 Test data



**Figure 8.1-1:** Radiated emissions spectral plot (30 to 1000 MHz)

Test data, continued



NEX-402594 Radiated emissions 1 -1 8 GHz  
 Preview Result 1-PK+  
 FCC Part 15 and ICES-003 Limit - Class A (Peak) above 1 GHz, 3m  
 FCC Part 15 and ICES-003 Limit - Class A (Quasi-Peak and Average), 3 m

**Figure 8.1-2:** Radiated emissions spectral plot (1 to 18 GHz)



Test data, continued

**Table 8.1-5: Radiated emissions results**

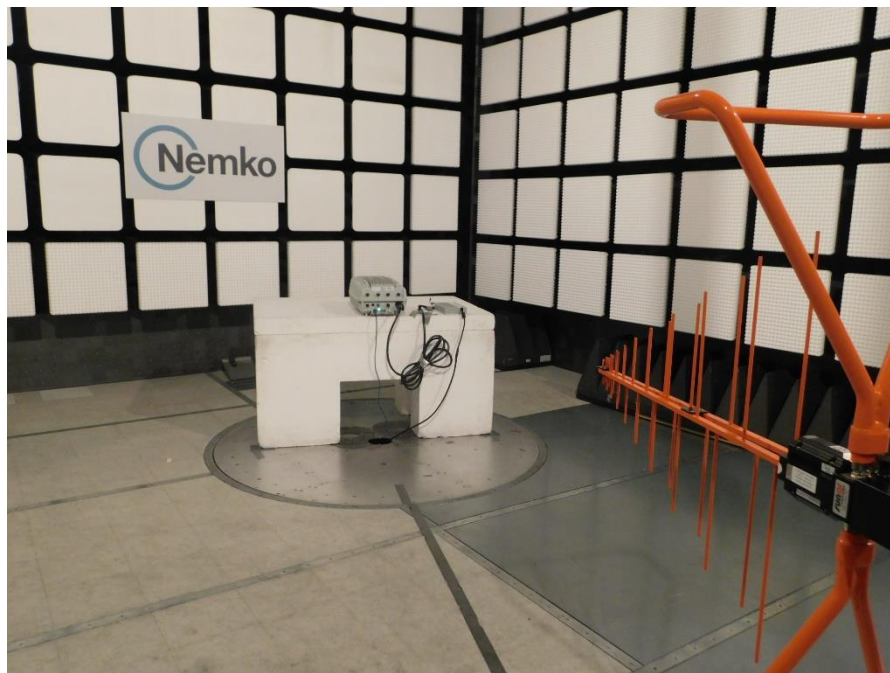
Frequency (MHz)	Quasi-Peak field strength <sup>1 and 3</sup> (dBμV/m)	Quasi-Peak limit (dBμV/m)	Quasi-Peak margin (dB)	Correction factor <sup>2</sup> (dB)
34.31	43.4	49.5	6.1	22.3
36.68	43.3	49.5	6.3	20.6
42.95	43.8	49.5	5.7	16.3
147.03	44.6	54.0	9.4	17.6
399.37	42.2	56.9	14.7	21.3

Notes:      <sup>1</sup> Field strength (dBμV/m) = receiver/spectrum analyzer value (dBμV) + correction factor (dB)  
                 <sup>2</sup> Correction factor = antenna factor ACF (dB) + cable loss (dB) – amplifier gain (dB)  
                 <sup>3</sup> Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

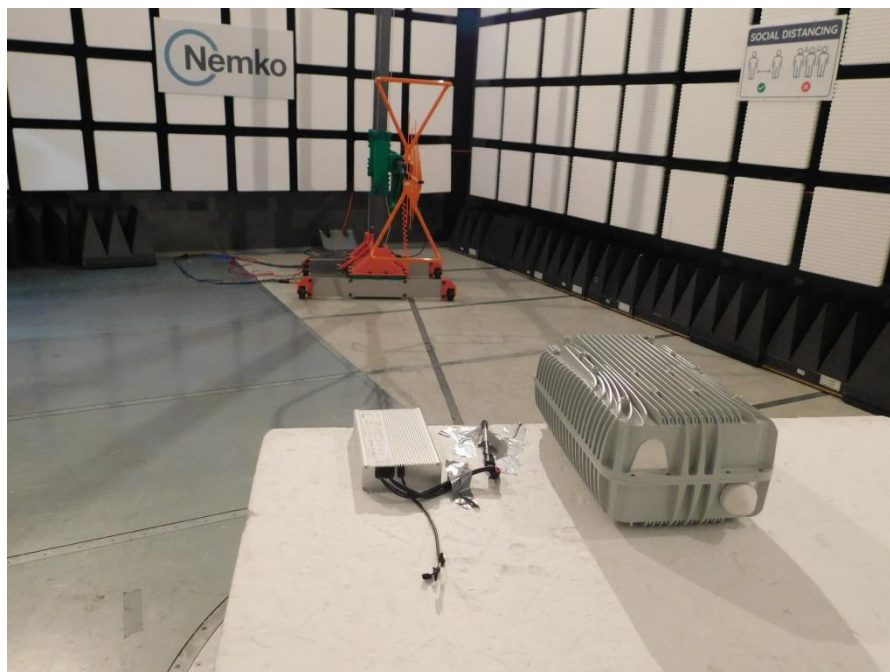
Sample calculation: 43.4 dBμV/m (field strength) = 21.1 dBμV (receiver reading) + 22.3 dB (Correction factor)

#### 8.1.6      Setup photos

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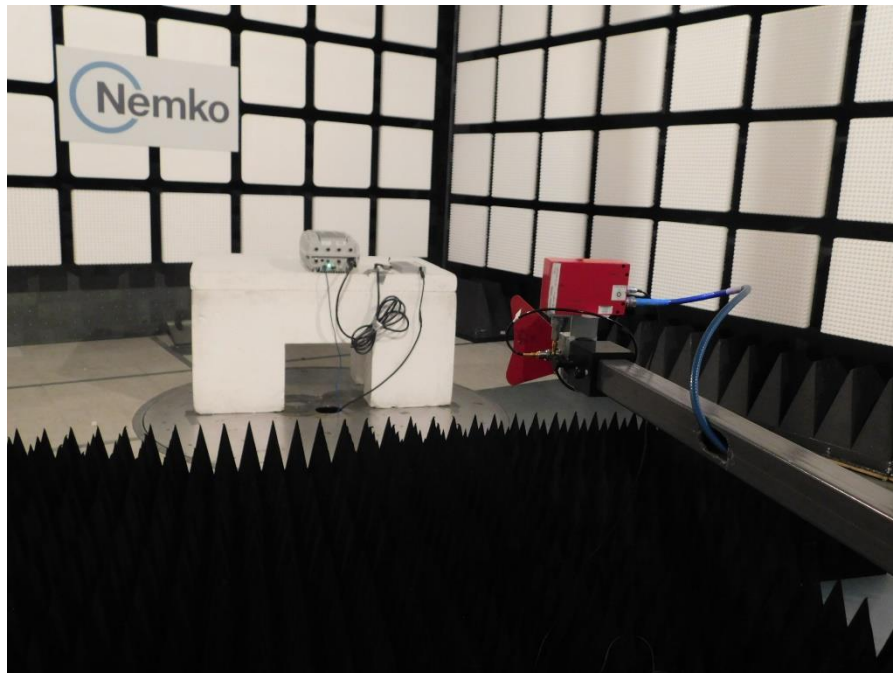
**Figure 8.1-3:** Radiated emissions setup photo – below 1 GHz



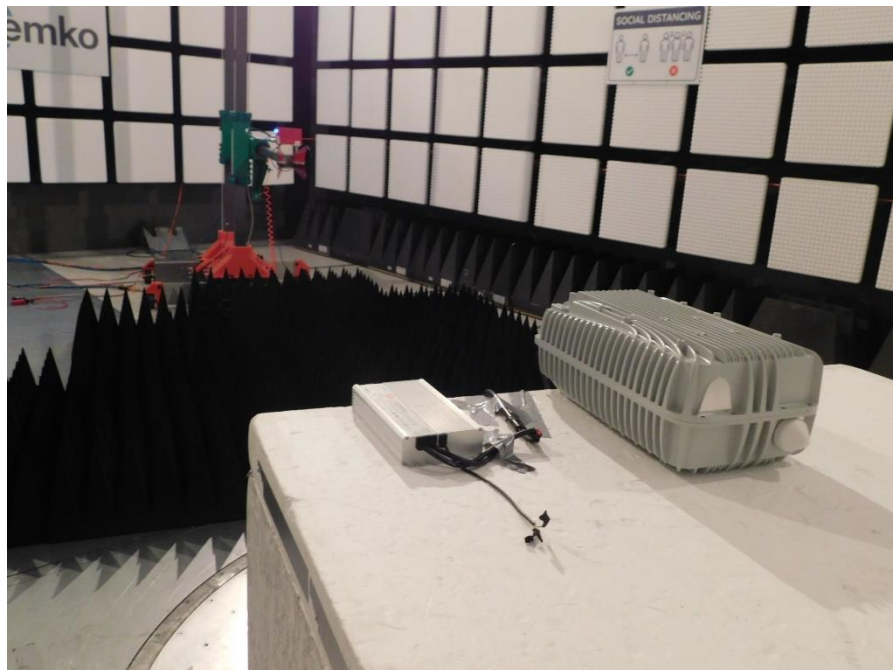
**Figure 8.1-4:** Radiated emissions setup photo – below 1 GHz

Setup photos, continued

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**Figure 8.1-5:** Radiated emissions setup photo – above 1 GHz



**Figure 8.1-6:** Radiated emissions setup photo – above 1 GHz

## 8.2 Conducted emissions – from AC mains power ports

### 8.2.1 References and limits

- FCC 47 CFR Part 15, Subpart B: Clause §15.107 (Test method ANSI C63.4:2014)
- ICES-003: Section 6.1

**Table 8.2-1:** *Requirements for conducted emissions from the AC mains power ports for Class A*

Frequency range [MHz]	Measurement		Limits [dBμV]
	Coupling device	Detector type/ bandwidth	
0.15–0.5	AMN	Quasi Peak/9 kHz	79.0
0.5–30			73.0
0.15–0.5	AMN	CAverage/9 kHz	66.0
0.5–30			60.0

Notes:      The lower limit shall apply at the transition frequency.

### 8.2.2 Test summary

Verdict	Pass		
Tested by	Fahar Abdul Sukkoor	Test date	August 17, 2020

### 8.2.3 Notes

- The spectral plots within this section have been corrected with all applicable transducer factors.
- Where tabular data has not been provided, no emissions were observed within 10 dB of the specified limit when measured with the appropriate detector. Additionally; where less than 6 measurements per detector has been provided, fewer than 6 emissions were observed within 10 dB of the specified limit when measured with the appropriate detector.
- Equipment with a DC power port powered by a dedicated AC/DC power converter is considered to be AC mains powered equipment and was tested with a power converter. Where the power converter was provided by the manufacturer, the provided converter was used.

### 8.2.4 Setup details

Port under test – Coupling device	AC port– Artificial Mains Network (AMN)
EUT power input during test	48 V <sub>DC</sub> (via external 100–240 V <sub>AC</sub> , 50/60 Hz power adapter)
EUT setup configuration	Table top
Measurement details	A preview measurement was generated with the receiver in continuous scan mode. Emissions detected within 10 dB or above the limit were re-measured with the appropriate detector against the correlating limit and recorded as the final measurement.

#### Receiver settings:

Resolution bandwidth	9 kHz
Video bandwidth	30 kHz
Detector mode	Peak and Average (Preview), Quasi-peak and CAverage (Final)
Trace mode	Max Hold
Measurement time	100 ms (Preview), 160 ms (Final)

**Table 8.2-2: Conducted emissions – from AC mains power ports equipment list**

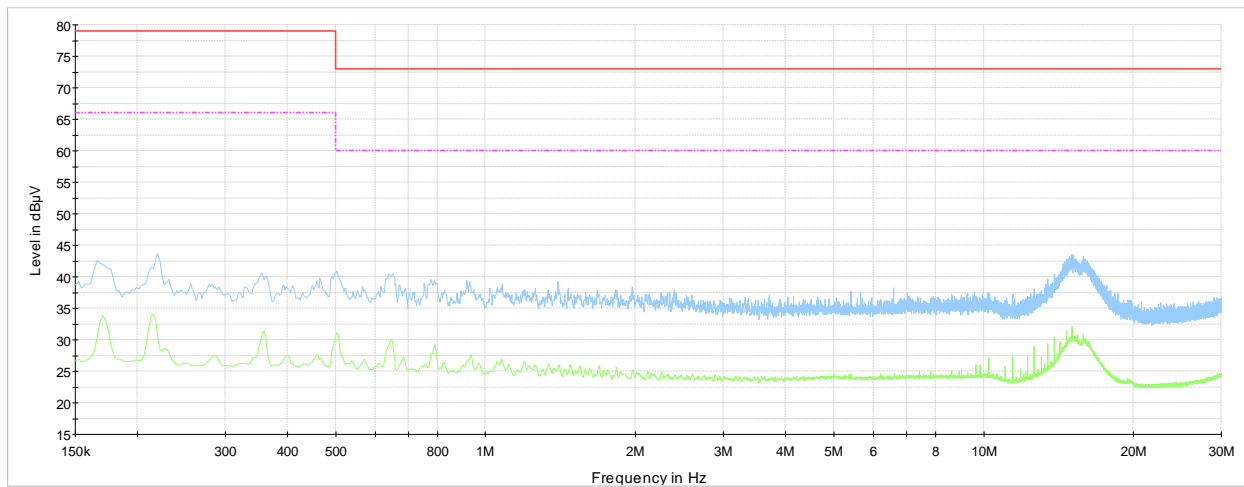
Equipment	Manufacturer	Model no.	Asset no.	Cal cycle	Next cal.
Receiver/spectrum analyzer	Rohde & Schwarz	ESR26	FA002969	1 year	December 4, 2020
Two-line v-network	Rohde & Schwarz	ENV216	FA002964	1 year	December 20, 2020
ISN T8-Cat6	TESEQ	ISN T8-Cat6	FA002946	1 year	January 10, 2021
Power source	Chroma	61605	FA003034	-	NCR

Notes: NCR - no calibration required

**Table 8.2-3: Conducted emissions – from AC mains power ports test software details**

Manufacturer of Software	Details
Rohde & Schwarz	EMC32, Software for EMC Measurements, Version 10.60.00

## 8.2.5 Test data

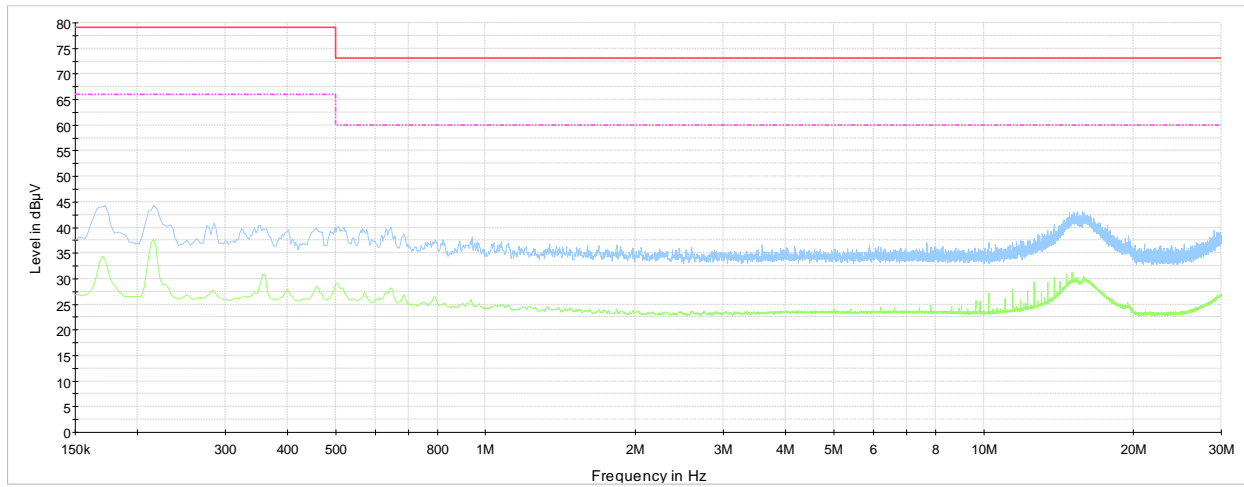


NEX-402594 Conducted emissions 150 kHz - 30 MHz phase 120 Vac 60 Hz

— Preview Result 2-AVG  
— Preview Result 1-PK+  
— CISPR 32 Limit - Class A, Mains (Quasi-Peak)  
— CISPR 32 Limit - Class A, Mains (Average)

**Figure 8.2-1:** *Conducted emissions – from AC mains power ports spectral plot on phase line*

## Test data, continued



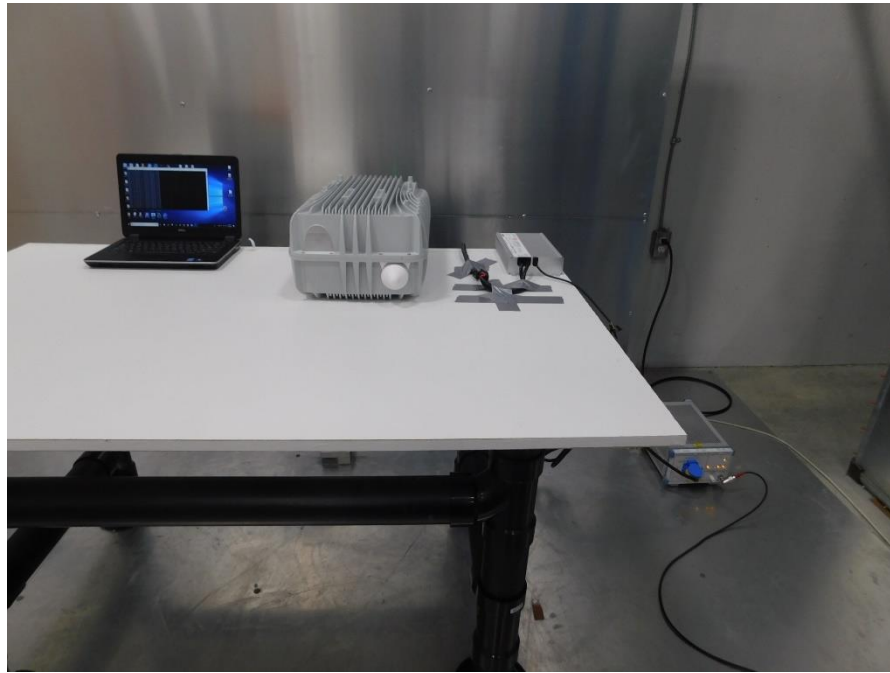
NEX-402594 Conducted emissions 150 kHz - 30 MHz neutral 120 Vac 60 Hz

— Preview Result 2-AVG  
— Preview Result 1-PK+  
— CISPR 32 Limit - Class A, Mains (Quasi-Peak)  
— CISPR 32 Limit - Class A, Mains (Average)

**Figure 8.2-2:** *Conducted emissions – from AC mains power ports spectral plot on neutral line*

## 8.2.6 Setup photos

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**Figure 8.2-3:** Conducted emissions – from AC mains power ports setup photo



**Figure 8.2-4:** Conducted emissions – from AC mains power ports setup photo

## Section 9 EUT photos

### 9.1 External photos



**Figure 9.1-1: Front view photo**



**Figure 9.1-2: Rear view photo**



**Figure 9.1-3: Side view photo**



**Figure 9.1-4: Side view photo**

External photos, continued



Figure 9.1-5: Top view photo



Figure 9.1-6: Bottom view photo

End of the test report