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EMC testing of the Tektelic Communication Inc. KONA MICRO GATEWAY in accordance with FCC Part 15.247 and ANSI C63.10: 2013 as referenced by FCC OET KDB 558074 D01 15.247 Meas Guidance v05r02.

FCC ID: 2ALEPT0008073

Test Dates: June 2 - 3, 2025

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REVISION RECORD

ISSUE	DATE	AUTHOR	REVISIONS
DRAFT 1	2025-06-05	I. Akram	Initial draft submitted for review.
DRAFT 2	2025-06-12	I. Akram	Added model# in section 1.3. Corrected typo in section 1.1, 2.1.5 & 2.2.5.
Release 1	2025-06-23	I. Akram	Sign Off

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1.0 INTRODUCTION

1.1 Scope

The purpose of this report is to present the results of compliance testing performed in accordance with FCC Part 15 subpart C and ANSI C63.10-2013 to gain FCC Class II Authorization for Low-Power License-Exempt transmitters.

Tektelic Communications Inc. manufactures different device variants referred to as KONA MICRO GATEWAY. However, only the one KONA MICRO GATEWAY variant was tested. This model contains all of the equipment options in this family of products and was chosen as a worst-case condition for emission testing.

All test procedures, limits, criteria, and results described in this report apply solely to the tested variant of the KONA MICRO GATEWAY test sample, referred to herein as the EUT (Equipment Under Test).

The samples have been provided by the customer and were in good condition at the time of testing.

This report does not imply product endorsement by the Electronics Test Centre, A2LA, nor any Canadian Government agency.

The table below provides details on the two devices

1.2 Applicant

This test report has been prepared for Tektelic Communication Inc., located in Calgary, Alberta, Canada.

1.3 Test Sample Description

As provided to ETC (Airdrie) by Tektelic Communication Inc.:

Product Name:	*KONA MICRO GATEWAY	
LoRa Radio	Frequency Band	902 – 928 MHz
	Frequency Range	902.3 – 927.7 MHz
	Mode of Operation	Hybrid 125KHz
	Max Transmit Power (Conducted)	20.21 dBm (0.104W) – with in ± 0.5 dB
Associated LoRa Antennas	SUZHOU WUTONG COMMUNICATION CO.,LTD 860M Antenna, Omni directional, Gain 0.4 dBi	
Model# (T-Code)	T0008054	
Serial#	2520K0002	
Firmware Hal Version ID #	5.4.1	
Variant Model#	T0008054	LORA GATEWAY MODULE, KONA MICRO, GEN2-T, 900MHZ, LTE MODEM
	T0008055	LORA GATEWAY MODULE, KONA MICRO, GEN2-T, 900MHz
Power supply:	(100 – 240)AC/DC Adaptor (12VDC@1A) / POE	

Note: All three channels (LOW, MID, High) are analyzed to determine the worse channel. Full emission scan is performed on worse channel at worse axis for each radio.

*The Kona Micro Gateway is a LoRa base station. It may incorporate a 3G/4G backhaul module, FCC ID: RI7LE910CXWWX.

General Test Conditions

The EUT was set up and exercised using the configurations, modes of operation and arrangements defined in this report only. All inputs and outputs to and from other equipment associated with the EUT were adequately simulated. In order to meet the operational requirements during testing as per KDB 558074 D01 15.247 Meas Guidance v05r02 and ANSI C63.10-2013 clause 5.11 the device was programmed with a special

firmware to transmit at a continuous transmit mode (100% duty cycle). Special firmware is strictly for testing purpose only and not available to end user. This special test case represents the worst-case duty cycle. For antenna port conducted measurements, the spectrum analyzer was directly connected at the radio output via a 10 dB PAD and DC blocker. During testing, input power was provided via POE.

The environmental conditions are recorded during each test, and are reported in the relevant sections of this document.

1.5 Reference Standards

Standards	Description
FCC, title 47 CFR § 15.247	Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.
FCC, title 47 CFR § 15.207	Conducted limits for an intentional radiator that is designed to be connected to the public utility (AC) power line.
FCC, title 47 CFR § 15.107	Conducted limits for equipment that is designed to be connected to the public utility (AC) power line.
FCC, title 47 CFR § 15.209	Radiated emission limits; general requirements
FCC, title 47 CFR § 15.109	Radiated emission limits; from unintentional radiators digital devices.
ANSI C63.10-2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
ANSI C63.4-2014	American National Standard for Methods of Measurement of Radio – Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 KHz to 40 GHz
558074 D01 15.247 Meas Guidance v05r02	Guidance For Compliance Measurements On Digital Transmission System, Frequency Hopping Spread Spectrum System, And Hybrid System Devices Operating Under Section 15.247 Of The FCC Rules

1.6 Test Methodology

Test methods are specified in the Basic Standard as referenced and/or modified by the Product Standard in the part of Section 2 of this report associated with each particular test case. EUT tested for RX mode to cover FCC Part 15 subpart B (digital Circuitry).

1.6.1 Variations in Test Methodology

Any variance in methodology or deviation from the reference Standard is documented in the part of Section 2 of this report associated with each particular Test Case.

1.6.2 Test Sample Verification, Configuration & Modifications

EUT setup, configuration, protocols for operation and monitoring of EUT functions, and any modifications performed in order to meet the requirements, are detailed in each Test Case of Section 2 of this report.

1.6.3 Uncertainty of Measurement:

The factors contributing to measurement uncertainty are identified and calculated in accordance with CISPR 16-4-2: 2011.

This uncertainty estimate represents an expended uncertainty expressed at approximately 95% confidence using a coverage factor of $k = 2$.

Test Method	Uncertainty
Radiated Emissions Level (9 KHz – 1 GHz)	± 5.6 dB
Radiated Emissions Level (1 GHz – 18 GHz)	± 4.9 dB
Uncertainty Conducted Power level	± 0.5 dB

2.0 TEST CONCLUSION

STATEMENT OF COMPLIANCE

The customer equipment referred to in this report was found to comply with the requirements, as summarized below.

The EUT was subjected to the following tests. Compliance status is reported as **Compliant** or **Non-compliant**. **N/A** indicates the test was Not Applicable to the EUT.

The measurement uncertainty is not accounted for determination of the statement of compliance. The statement of compliance is based only on the measurement value recorded.

Note: Maintenance of compliance is the responsibility of the Manufacturer. Any modifications to the product should be assessed to determine their potential impact on the compliance status of the EUT with respect to the standards detailed in this test report.

The following table summarizes the tests performed in terms of the specification, class or performance criterion applied, and the EUT modification state.

Test Case	Test Type	Specification	Test Sample	Modifications	Config.	Result
2.1	Max Output average Power Conducted	15.247(b,2,3)	KONA MICRO GATEWAY	none	see § 2.1	Compliant
2.2	Radiated Spurious Emission (Restricted Band)	15.205, 15.209 15.247(d)	KONA MICRO GATEWAY	none	see § 2.2	Compliant
2.3	EUT Position	ANSI C63.4	KONA MICRO GATEWAY	none	see § 2.3	Assessed
2.4	RF Exposure	15.247(i)	KONA MICRO GATEWAY	none	see § 2.4	Exempt

Refer to the test data for applicable test conditions.

2.1 Max Output average Power Conducted

Test Lab: Electronics Test Centre, Airdrie	EUT: KONA MICRO GATEWAY
Test Personnel: Imran Akram	Standard: FCC PART 15.247
Date: 2025-06-02 (21.1°C, 22.0% RH)	Basic Standard: ANSI C63.10: 2013 FCC OET KDB 558074

EUT status: Compliant

Specification: FCC Part 15.247(b, 2)

Criteria For frequency hopping systems operating in the 902-928 MHz band: 1 watt for systems employing at least 50 hopping channels

2.1.1 Test Guidance: ANSI C63.10-2013, Clause 11.9.2.2.2 Clause 7.8.5 / FCC OET KDB 558074

This measurement is performed at low, mid and high frequencies, with modulation.

The RF output of EUT with an antenna connector is fed to the input of the spectrum analyzer through appropriate attenuation. The loss from the cable and the attenuator were added on the analyzer as gain offset setting thereby allowing direct measurements, without the need for any further corrections.

Output Power Method AVGSA-1 For DTS	
Span	≥ 1.5 times the OBW
RBW	1 – 5 % of the OBW, ≤ 1 MHz
VBW	≥ 3 x RBW
Number of Points in sweep	≥ 2 x Span / RBW
Sweep time	Auto Couple
Detector	RMS (Power Averaging)
Sweep trigger	Free Run (Duty Cycle ≥98%)
Trace Average	Minimum 100 traces in power Averaging (RMS)
Power measured	Integrated the spectrum across the OBW of the signal using the S/A band power measurement function, with band limit set equal to the OBW band edge.

2.1.2 Deviations From The Standard:

There were no deviations from the EUT setup or methodology specified in the standard.

2.1.3 Test Equipment

Testing was performed with the following equipment:

Equipment	Manufacturer	Model #	Asset #	Cal. Date	Cal. Due
EMI receiver	Agilent	N9038A (FW A.25.05)	6130	2024-08-15	2025-08-15
Temp/Humidity	Extech	42270	5871	2025-05-01	2026-05-01
Attenuator (DC to 26 GHz)	Mini-Circuits	BW-S10-2W263+	6932	2022-12-10	2025-12-10
Coaxial Cables (RF)	W.L. GORE	PGR01R01036	7024	2025-01-09	2026-01-09
DC Blocker (9 KHz - 27 GHz)	Centric RF	C0927 SMA	6987	2025-01-19	2026-01-19

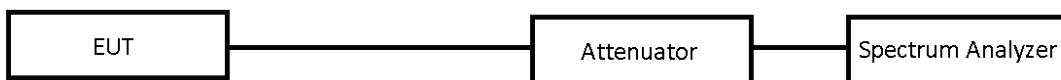
2.1.4 Test Sample Verification, Configuration & Modifications

The EUT was set to a selected channel with test-specific software. The output was modulated as in normal operation.

The EUT met the requirements without modification.

Test setup diagrams for Power testing:

Conducted:

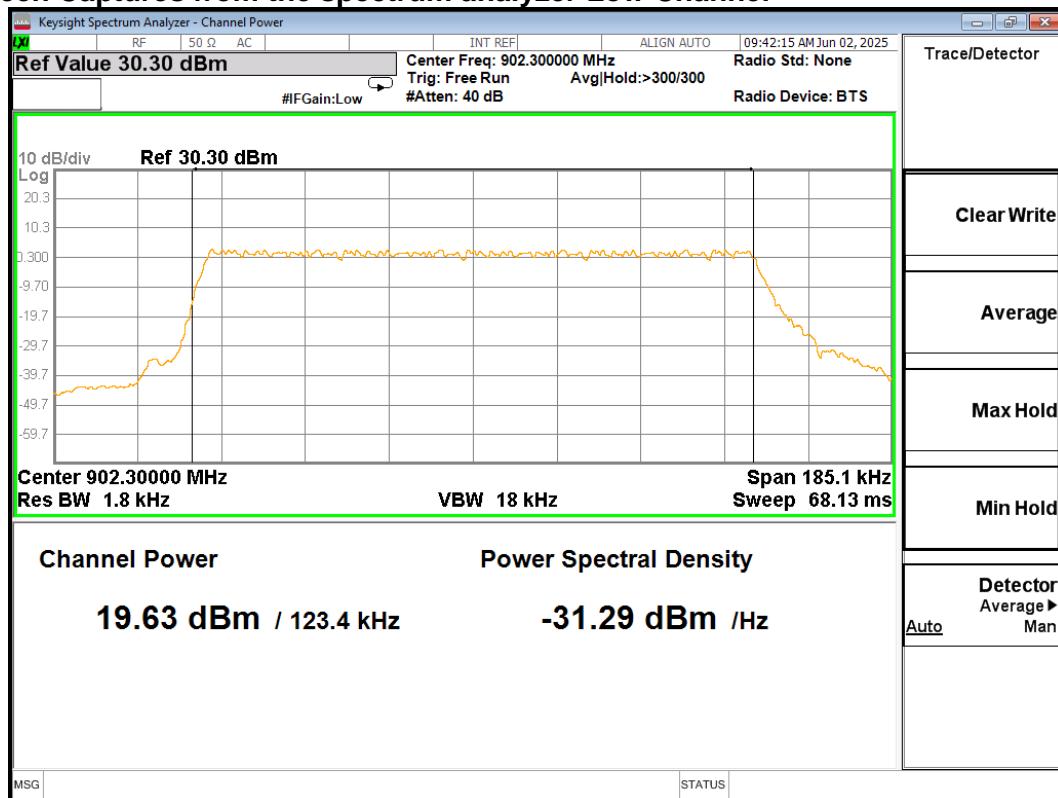


2.1.5 Max Output Power Data: DSS

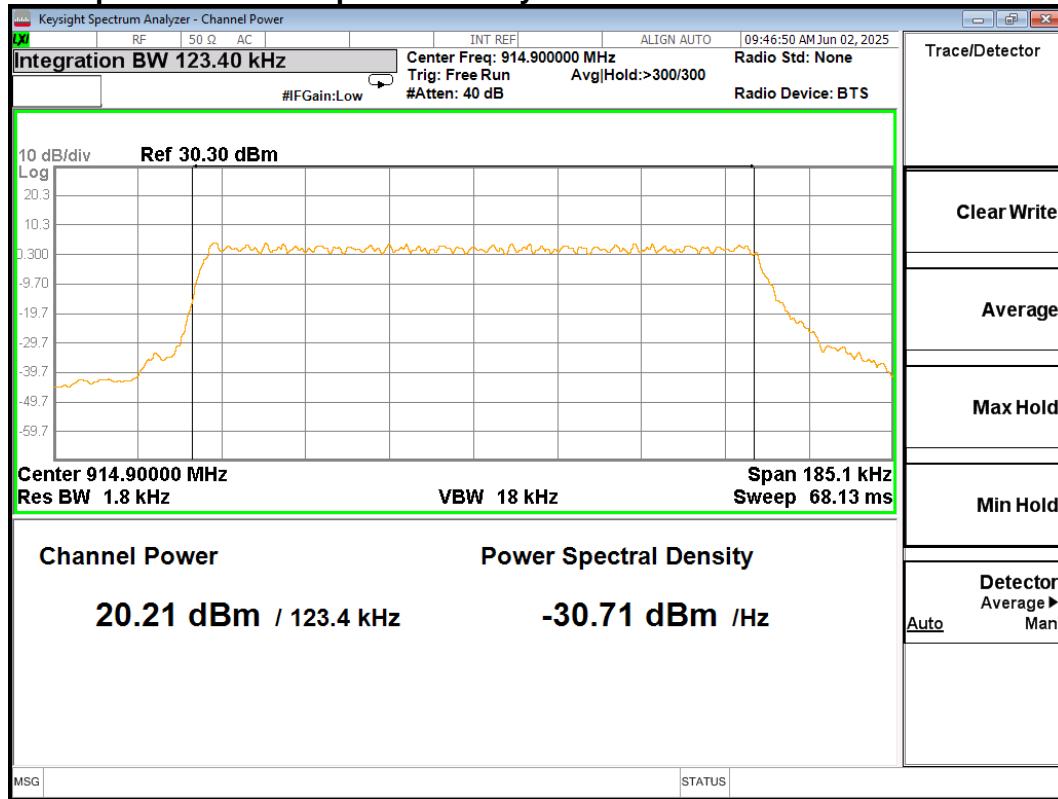
Mode of operation	Channel	Freq. [MHz]	Max Average Power [dBm]	Limit Power [dBm]
125KHz Hybrid	Low	902.3	19.63	≤ 30 (1Watt)
	Mid	914.9	20.21	
	High	927.7	19.47	

Hybrid (125 KHz) Mode

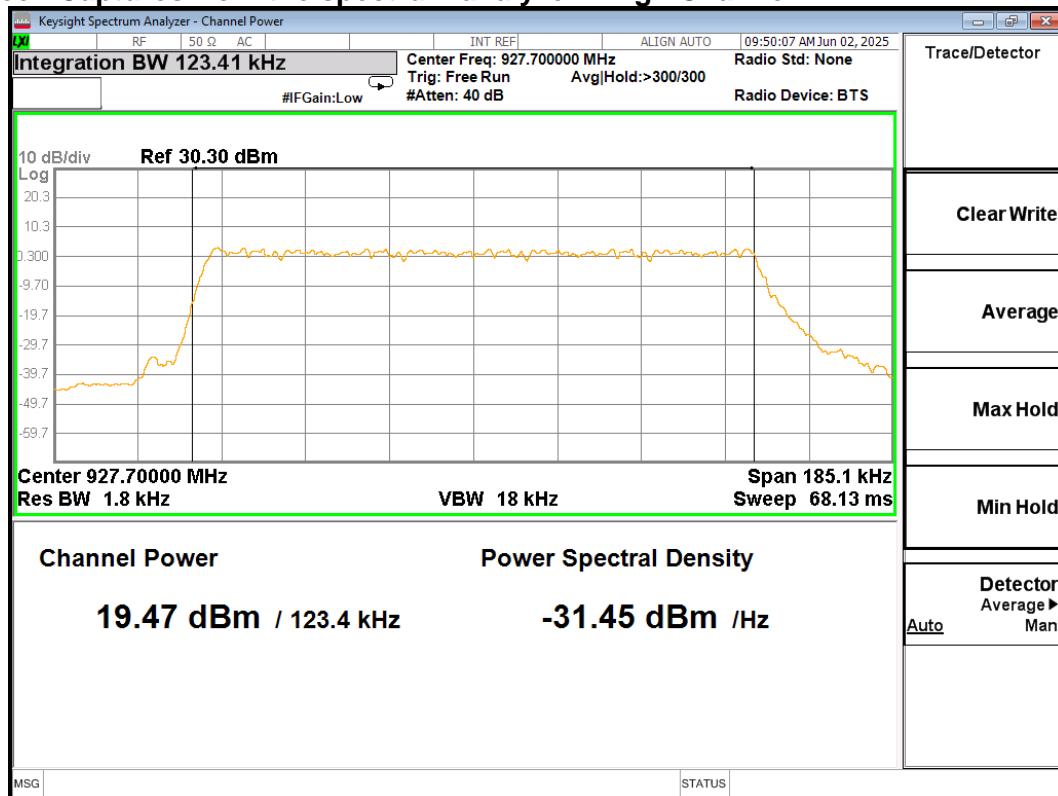
Screen Captures from the spectrum analyzer Low Channel



Screen Captures from the spectrum analyzer: MID Channel



Screen Captures from the spectrum analyzer: High Channel



2.2 Radiated Spurious Emissions within restricted band

Test Lab: Electronics Test Centre, Airdrie	EUT: KONA MICRO GATEWAY
Test Personnel: Brendan Van Hee, Imran Akram	Standard: FCC PART 15.247/15.209 Basic Standard: ANSI C63.10-2013
Date: 2025-06-(02/03,10) (21.8°C, 20.5% RH)	
EUT status: Compliant	

Specification: FCC PART 15.247(d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Restricted Bands of Operation:

MHz	MHz	MHz	MHz	MHz	GHz	GHz
0.0900000 – 0.1100000	8.2910000 - 8.2940000	16.804250 - 16.804750	162.01250 - 167.17000 ■	1660.0000 – 1710.0000	3.600000 – 4.400000	14.470000 – 14.500000
0.4950000 – 0.5050000 ■	8.3620000 - 8.3660000	25.500000 - 25.670000	167.72000 - 173.20000 ■	1718.8000 – 1722.2000	4.500000 – 5.150000	15.350000 – 16.200000
2.1735000 - 2.1905000	8.3762500 - 8.3867500	37.500000 - 38.250000	240.00000 – 285.00000	2200.0000 – 2300.0000	5.350000 – 5.460000	17.700000 – 21.400000
4.1250000 - 4.1280000	8.4142500 - 8.4147500	73.000000 - 74.600000	322.00000 - 335.40000	2310.0000 – 2390.0000	7.250000 – 7.750000	22.010000 – 23.120000
4.1772500 - 4.1777500	12.290000 - 12.293000	74.800000 - 75.200000	399.90000 – 410.00000	2483.5000 – 2500.0000 ■	8.025000 – 8.500000	23.600000 – 24.000000
4.2072500 - 4.2077500	12.519750 - 12.520250	108.00000 - 121.94000 **	608.00000 – 614.00000	2655.0000 – 2900.0000	9.000000 – 9.200000	31.200000 – 31.800000
5.6770000 - 5.6830000	12.576750 - 12.577250	123.00000 - 138.00000 **	960.00000 – 1240.0000 ***	3260.0000 – 3267.0000	9.300000 – 9.500000	36.430000 – 36.500000
6.2150000 - 6.2180000	13.360000 - 13.410000	149.90000 - 150.05000 ■	1300.0000 – 1427.0000 ***	3332.0000 – 3339.0000	10.600000 – 12.700000	Above 38.600000
6.2677500 - 6.2682500	16.420000 - 16.423000	156.52475 - 156.52525	1435.0000 – 1626.5000	3345.8000 – 3358.0000	13.250000 – 13.400000	
6.3117500 - 6.3122500	16.694750 - 16.695250	156.70000 - 156.90000	1645.5000 – 1646.5000	3500.0000 – 3600.0000 ****		

■ US only

** Canada 108 – 138 MHz

*** Canada 960 – 1427 MHz

**** Canada only

2.2.1 Test Guidance: ANSI C63.10-2013, Clause 13.4.2

From 9 kHz to 150 kHz (resolution bandwidth of 200 Hz) and from 150 kHz to 30 MHz (resolution bandwidth 9 kHz) measurements are performed with a loop antenna (as per KDB 460108).

From 30 MHz to 1000 MHz, measurements are performed with a broadband biconilog antenna and a resolution bandwidth of 120 kHz.

Above 1000 MHz, measurements are performed with a DRG Horn antenna or a Standard Gain horn, and a resolution bandwidth of 1 MHz. The EUT is raised to 150 cm above the ground plane, and the area between the EUT and the antenna mast is covered with RF absorbent material.

The scan is performed at discreet increments of turntable azimuth and antenna height, which are selected in accordance with the applicable standard in order to assure capture of frequencies of interest. Optimization is performed based on the scan data.

Frequencies having peak emissions within 10dB of the limits are optimized. The EUT is rotated in azimuth over 360 degrees and the direction of maximum emission is noted.

Antenna height is varied from 1 – 4 meters at this azimuth to obtain the maximum emission. Then the maximum level is measured with the appropriate detector and recorded. Up to 1 GHz, measurements are performed with a Quasi-Peak detector. Above 1 GHz, measurements are recorded with Peak and/or Average detectors, as applicable.

2.2.2 Deviations From The Standard:

There were no deviations from the EUT setup or methodology specified in the standard.

2.2.3 Test Equipment

Testing was performed with the following equipment:

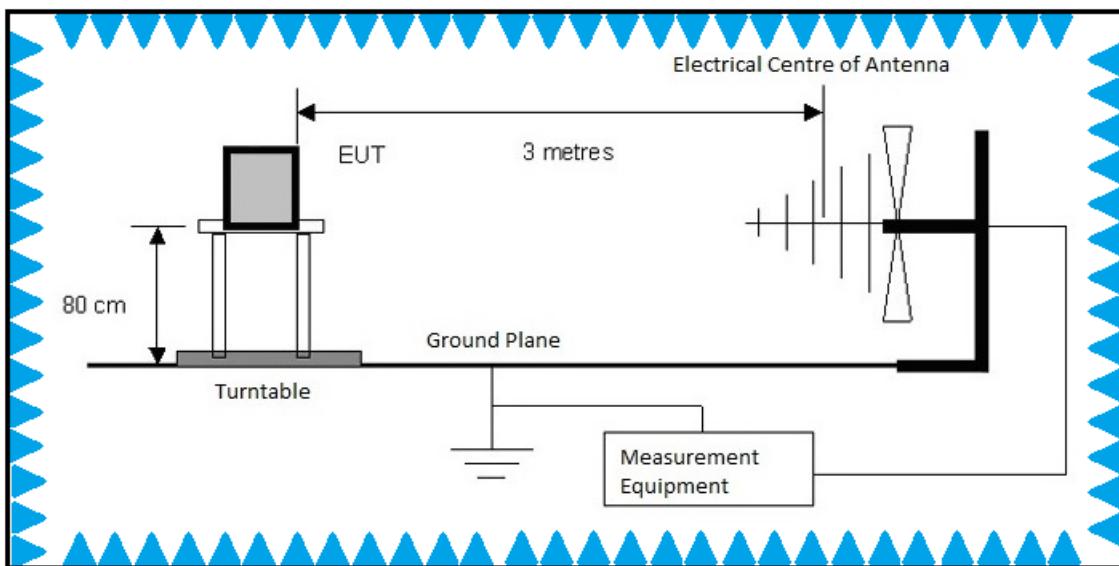
Equipment	Manufacturer	Model #	Asset #	Cal. Date (yyyy-mm-dd)	Cal. Due (yyyy-mm-dd)
EMC Software	UL	Ver. 9.5	SWC 021		N/A
EMI receiver	Agilent	N9038A (FW A.25.05)	6130	2024-08-15	2025-08-15
Loop Antenna (9kHz – 30MHz)	EMCO	6502	10868	2023-06-21	2025-06-21
Biconilog Antenna (30 – 1000 MHz)	AR	JB1	6905	2023-11-29	2025-11-29
DRG Horn (1000 – 18000 MHz)	EMCO	3115	19357	2022-10-05	2025-10-05
Humidity/Temp Logger	Extech Ins. Corp.	42270	5892	2024-04-08	2025-04-08
Pre-Amplifier (30 – 1400 MHz)	HP	8447D	9291	2025-01-21	2026-01-21
Low Noise Amplifier (1 – 18 GHz)	MITEQ	JS43-01001800-21- 5P	4354	2025-01-21	2026-01-21
RE Cable below 1GHz	Insulated Wire Inc.	KPS-1501A-3600- KPA-01102006	4419	2025-01-21	2026-01-21
Re Cable Above 1 GHz	A.H. System Inc.	SAC-26G-8.23	6187	2025-01-21	2026-01-21
0.9GHz Notch Filter	Microtronics	BRM20784	6947	2025-01-21	2026-01-21

2.2.4 Test Sample Verification, Configuration & Modifications

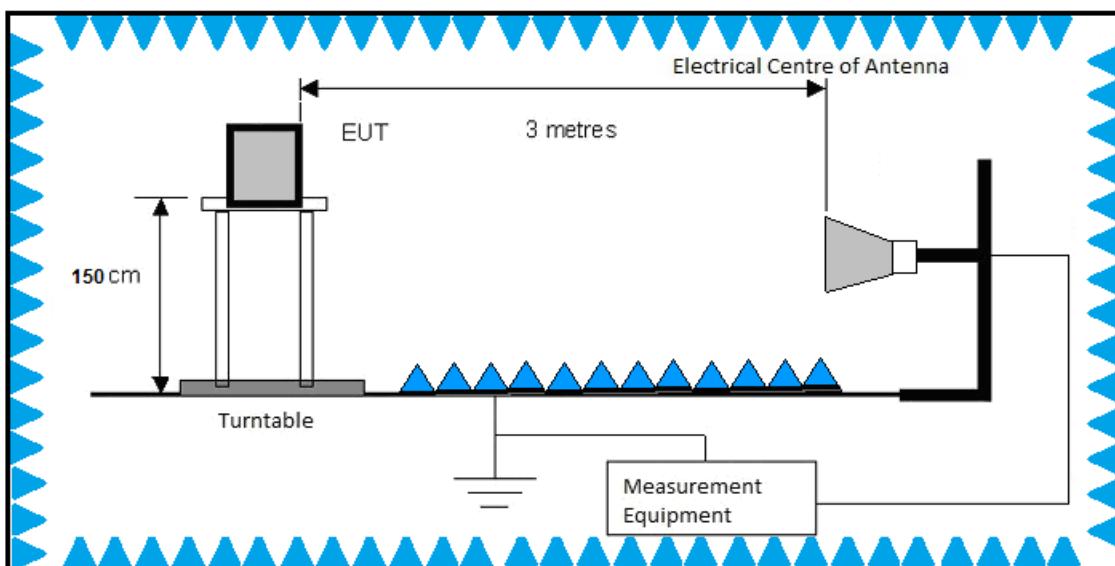
The EUT was set to a selected channel with test-specific software. The output was modulated as in normal operation. The LOW channel for LoRa DTS was selected as the worst-case condition for detailed examination after preliminary scans.

The EUT met the requirements without modification.

Test setup diagram for Radiated Spurious Emissions testing (below 1GHz):



Test setup diagram for Radiated Spurious Emissions testing (above 1GHz):



2.2.5 Radiated Emissions Data: Hybrid (125 KHz)

The emissions data are presented in tabular form, showing turntable azimuth, antenna height and polarization, the uncorrected spectrum analyzer reading, the correction factors applied, the net result, the value of the limit at the frequency investigated, and the Delta between the result and the limit.

Meter Reading in dB μ V + Antenna Factor in dB/m + Gain/Loss Factor in dB = Corrected Field Strength in dB μ V/m.

Delta = Field Strength – Limit

Notes:

- When a preamp is used, the resulting gain is compensated, producing a negative value for the Cable Loss. Measurements reported are the result of adjusting the turntable azimuth and antenna height to obtain the maximum EUT emission. This may produce a different reading than the plot trace. The plot is a Peak Hold function obtained at discreet increments of height and azimuth, while the reported measurement is obtained with the appropriate Quasi Peak or Average detector after the height and azimuth have been adjusted for maximum emission. Preliminary scans were performed for all channels in Transmit modes. The Low band channel 902.3 MHz was selected as the worst-case condition for detailed examination. In Transmit mode, the EUT was assessed up to 10.0 GHz.

Negative values for Delta indicate compliance.

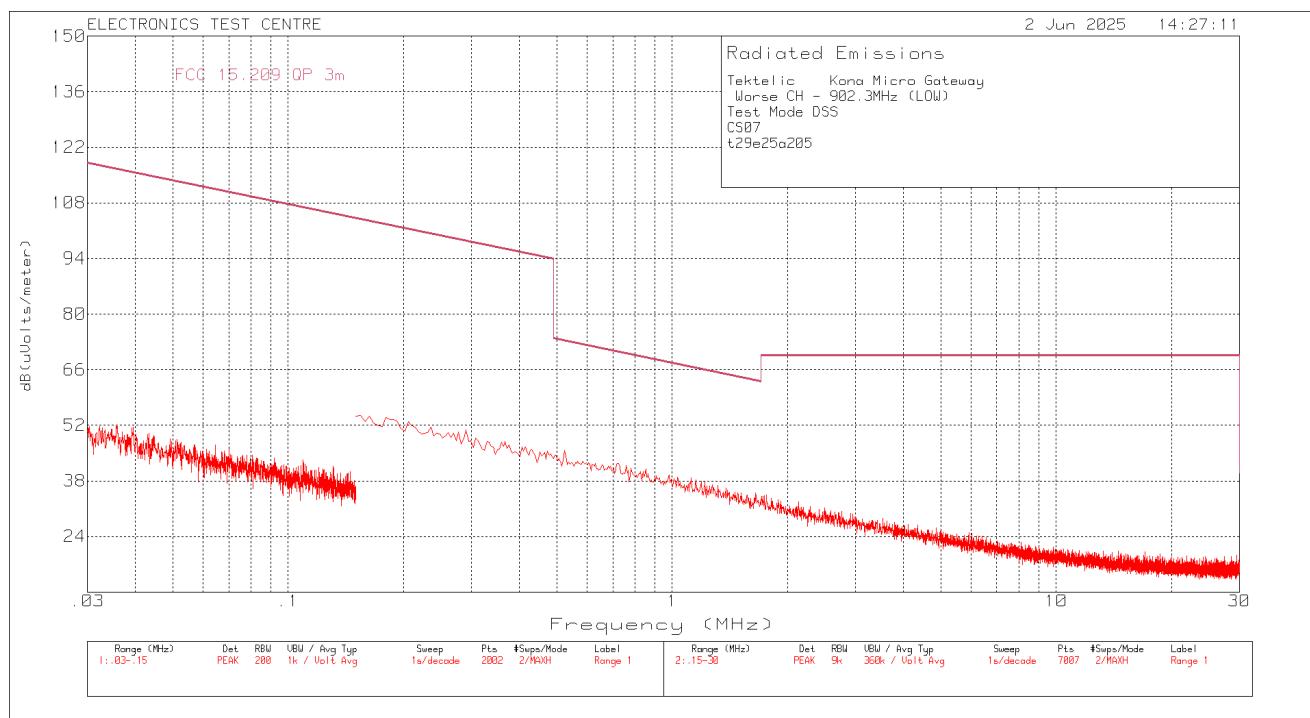
Freq. Marker	Freq. [GHz]	Raw reading [dB μ V]	Det	Antenna Factor [dB/m]	Pre amp Gain [dB]	Corrected Reading [dB μ V/m]	FCC 15.209 Limit [dB μ V/m]	Delta [dB]	Azimuth [Deg]	Height [cm]	Polarization
1	2.452	39.88	PK	28.6	-33.7	34.78	74	-39.22	148	122	Vertical
		27.61	AV			22.51	54	-31.49			
2	*3.6095	53.88	PK	31.5	-32.4	52.98	74	-21.02	297	125	Horizontal
		49.66	AV			48.76	54	-5.24			
3	*3.6091	56.94	PK	31.5	-32.4	56.04	74	-17.96	267	128	Vertical
		54.76	AV			53.86	54	-0.14			

PK: Peak Detector

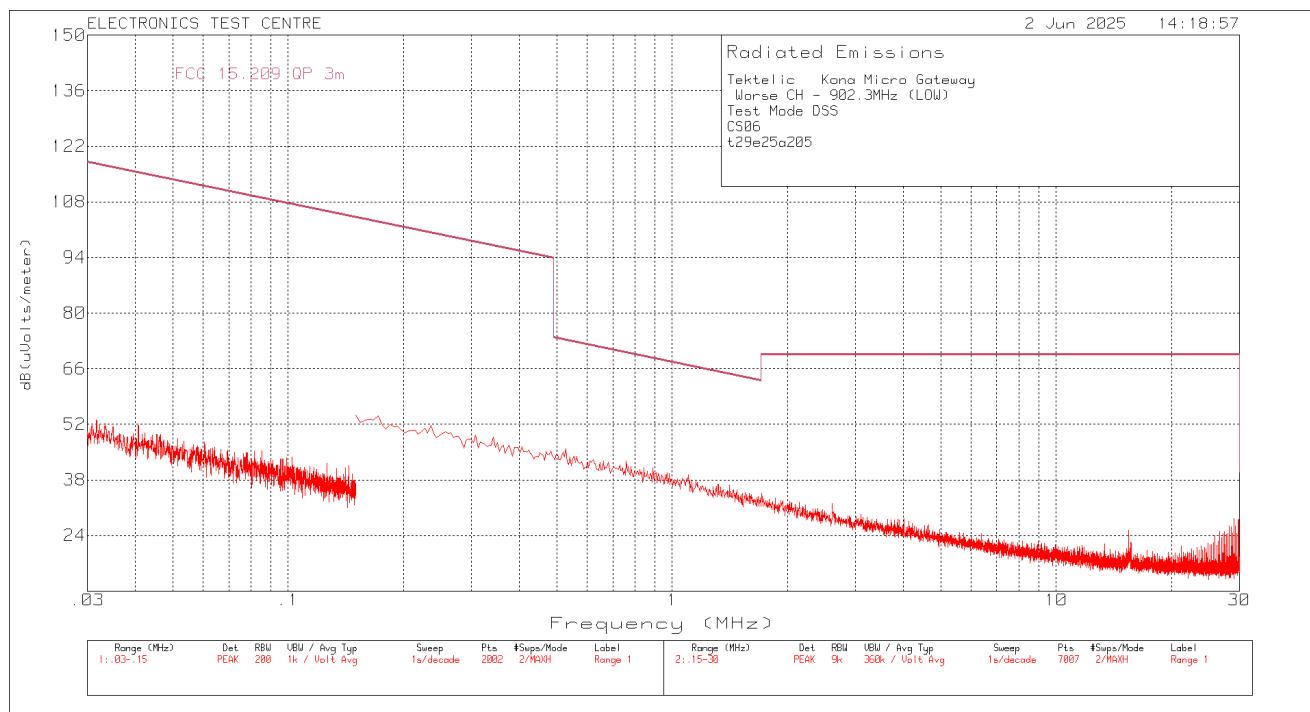
AV: Average Detector.

*** Spurious Emission in Restricted Band**

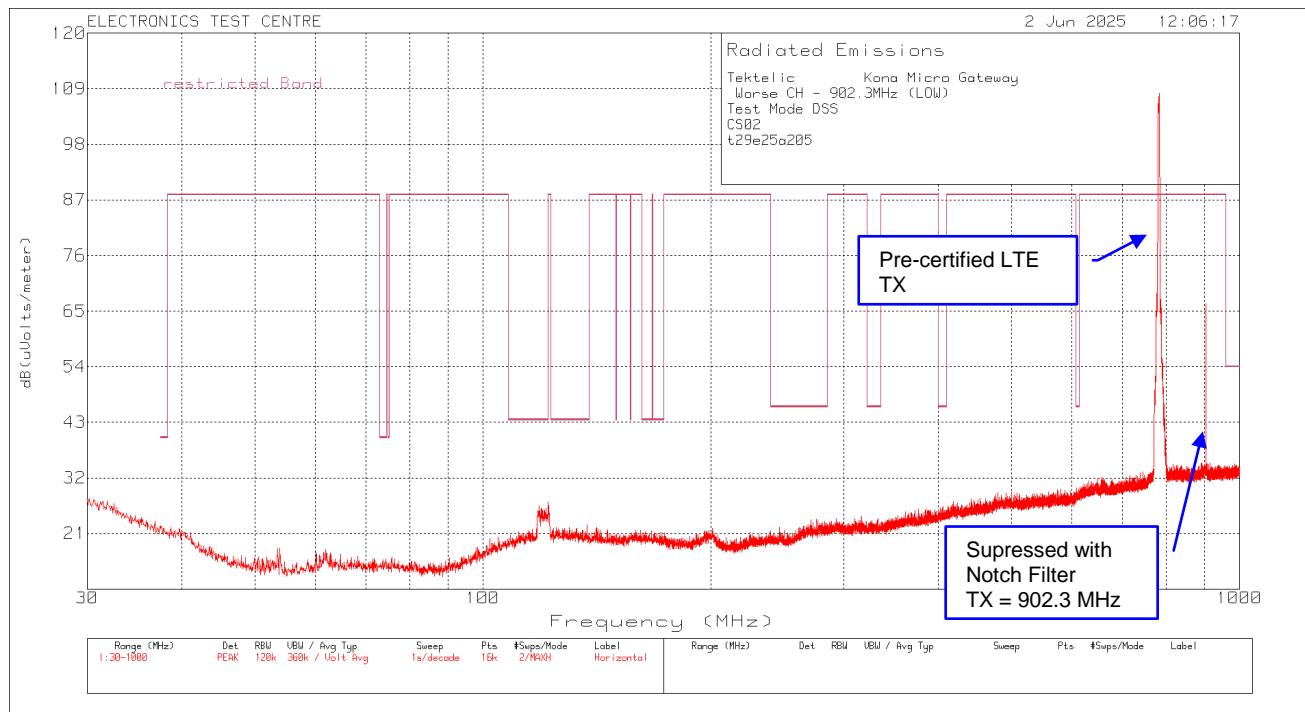
Plot of Radiated Emissions: Parallel



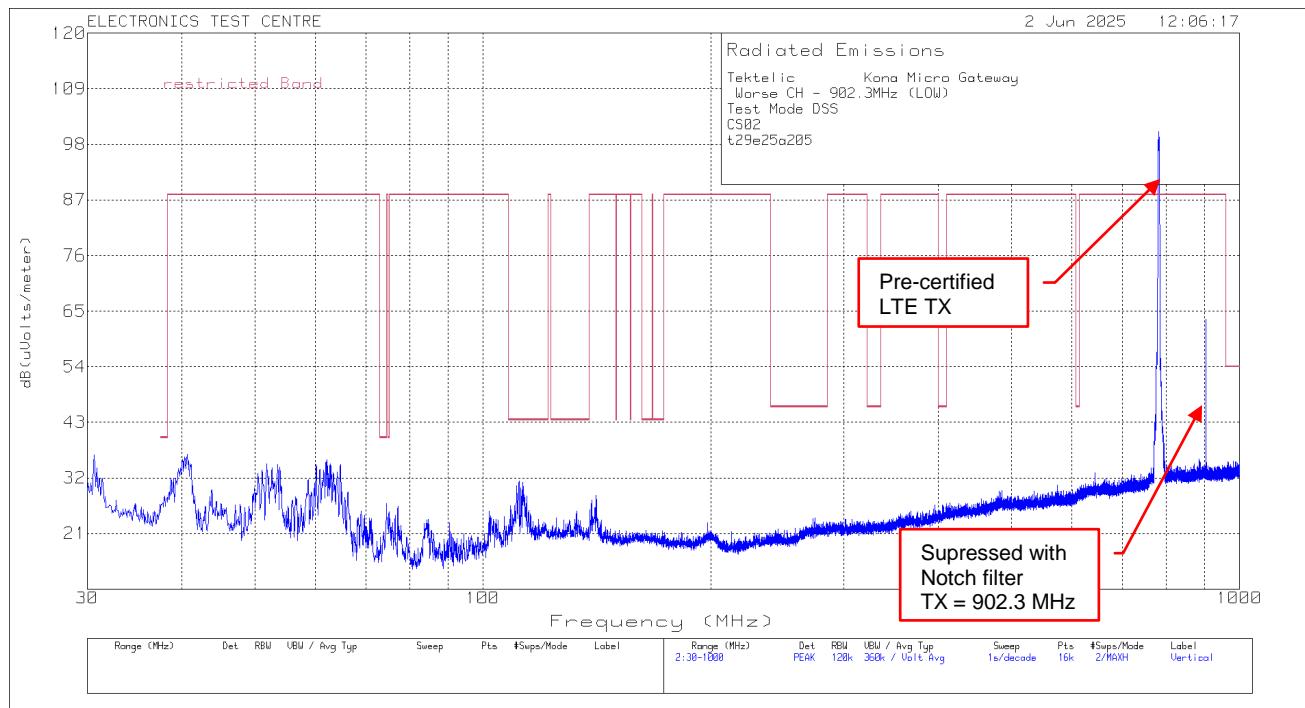
Plot of Radiated Emissions: Perpendicular



Plot of Radiated Emissions: Horizontal polarization



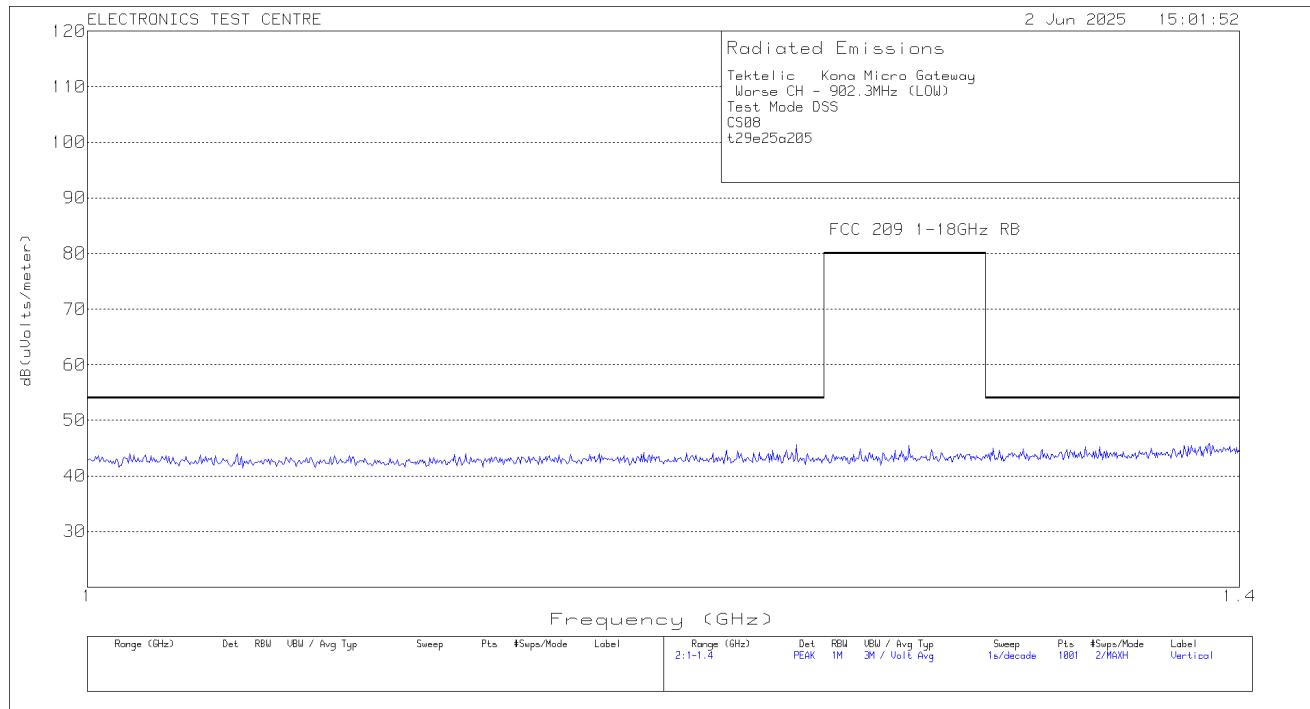
Plot of Radiated Emissions: Vertical polarization



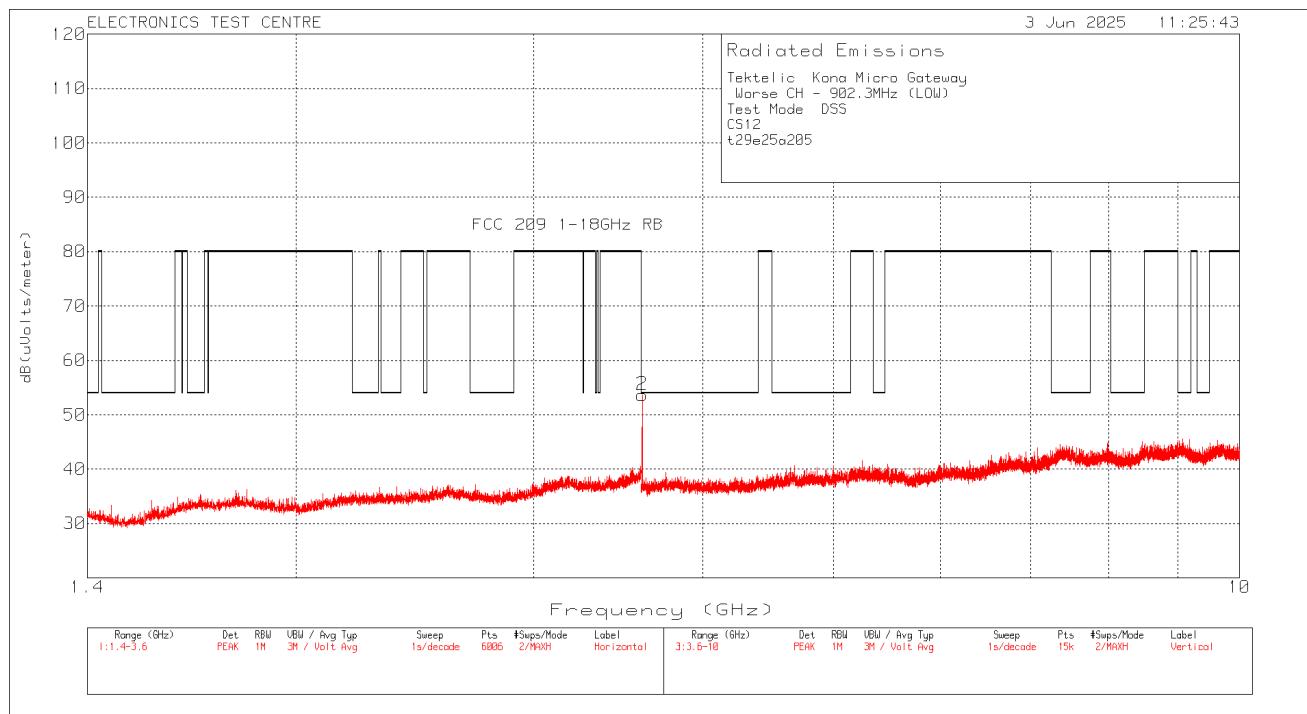
Plot of Radiated Emissions: Horizontal polarization



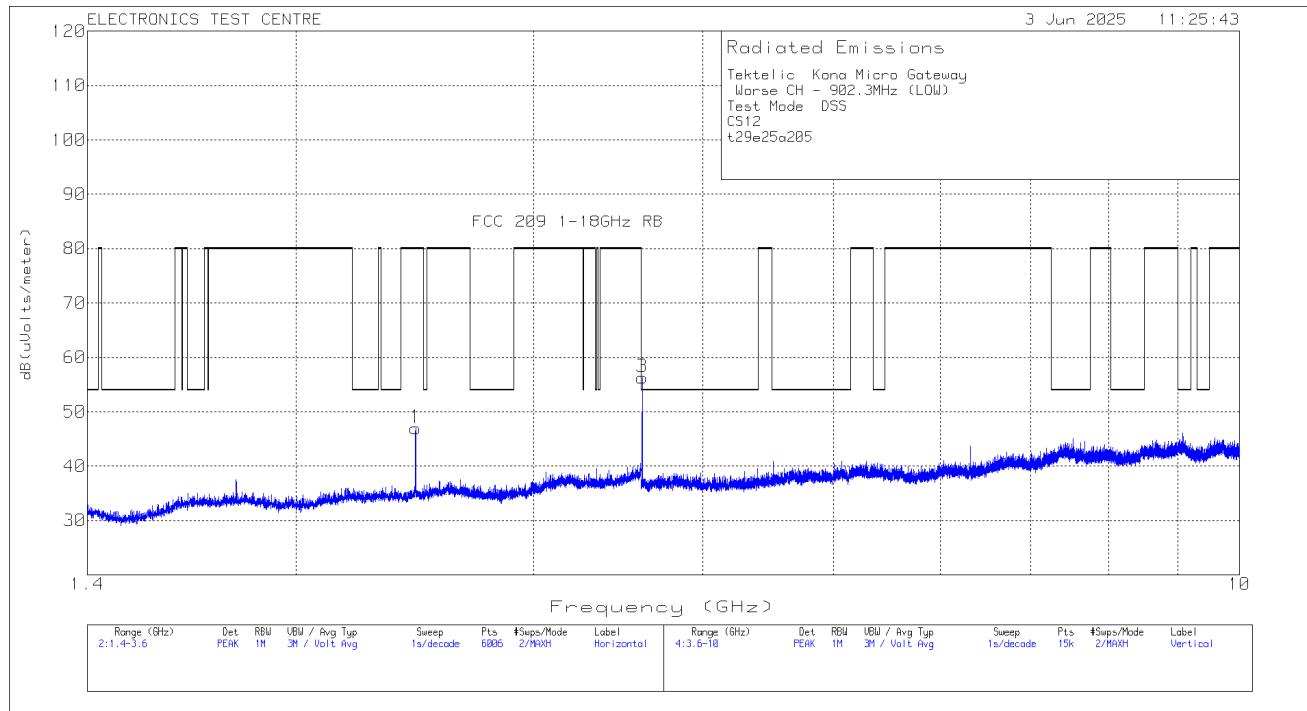
Plot of Radiated Emissions: Vertical polarization



Plot of Radiated Emissions: Horizontal polarization



Plot of Radiated Emissions: Vertical polarization



2.3 EUT Positioning Assessment

Test Lab: Electronics Test Centre, Airdrie

EUT: KONA MICRO GATEWAY

Test Personnel: Imran Akram

Standard: FCC PART 15.247

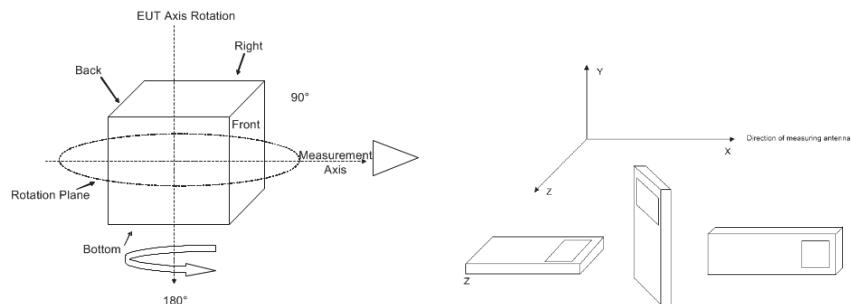
Date: 2025-06-02 (21.8°C, 20.5% RH)

Basic Standard: ANSI C63.4-2014

Comments: Z-Axis is worse axis. (Table Top)

Specification: ANSI C63.4-2014, Clause 6.3.2.1

Portable, small, lightweight, or modular devices that may be handheld, worn on the body, or placed on a table during operation shall be positioned on a non-conducting platform, the top of which is 80 cm above the reference ground plane. The preferred area occupied by the EUT arrangement is 1 m by 1.5 m, but it may be larger or smaller to accommodate various sized EUTs (see Figure 6, Figure 7, and Figure 9). For testing purposes, ceiling- and wall-mounted devices also shall be positioned on a tabletop (see also 6.3.4 and 6.3.5). In making any tests involving handheld, body-worn, or ceiling-mounted equipment, it is essential to recognize that the measured levels may be dependent on the orientation (attitude) of the three orthogonal axes of the EUT. Thus, exploratory tests as specified in 8.3.1 shall be carried out for various axes orientations to determine the attitude having maximum or near-maximum emission level.



2.4 RF Exposure

Test Lab: Electronics Test Centre, Airdrie **EUT: KONA MICRO GATEWAY**

Test Personnel:

Standard: FCC PART 15.247

Date:

EUT status: Exempt from SAR evaluation

Compliant: RF exposure assessment to be provided in a separate Exhibit.

3.0 TEST FACILITY

3.1 Location

The KONA MICRO GATEWAY was tested at the Electronics Test Centre laboratory located in Airdrie, Alberta, Canada. The Radio Frequency Anechoic Chamber (RFAC), identified as Chamber 1, has a usable working space measuring 10.6 m long x 7.3 m wide x 6.5 m high.

Measurements taken at this site are accepted by Industry Canada as evidence of conformity per registration file # 2046A. This site is also listed with the FCC under Registration Number CA2046.

The floor, walls and ceiling consist of annealed steel panels. The walls and ceiling are covered with ferrite tile, augmented by RF absorbant foam material on the end wall nearest the turntable, and on the adjacent walls and the ceiling. The chamber floor supports a 15 cm high internal floor, constructed of annealed steel panels, that forms the ground plane, and is bonded to the chamber walls.

The 3-m diameter turntable is flush-mounted with the floor. A sub-floor cable-way is provided to route cables between the turntable pit and EUT support equipment located in the Control Room. Cables reach the EUT through an opening in the centre of the turntable.

Test instrumentation and EUT support equipment is located in the Control Room, consisting of two shielded vestibules joined together at the side of the main room. Cables are routed through bulkhead panels between the rooms and the test chamber as required. Power feeds are routed into the main room and vestibules through line filters providing at least 100 dB of attenuation between 10 kHz and 10 GHz.

Either floor mounted or table-top equipment can be tested at this facility.

3.2 Grounding Plan

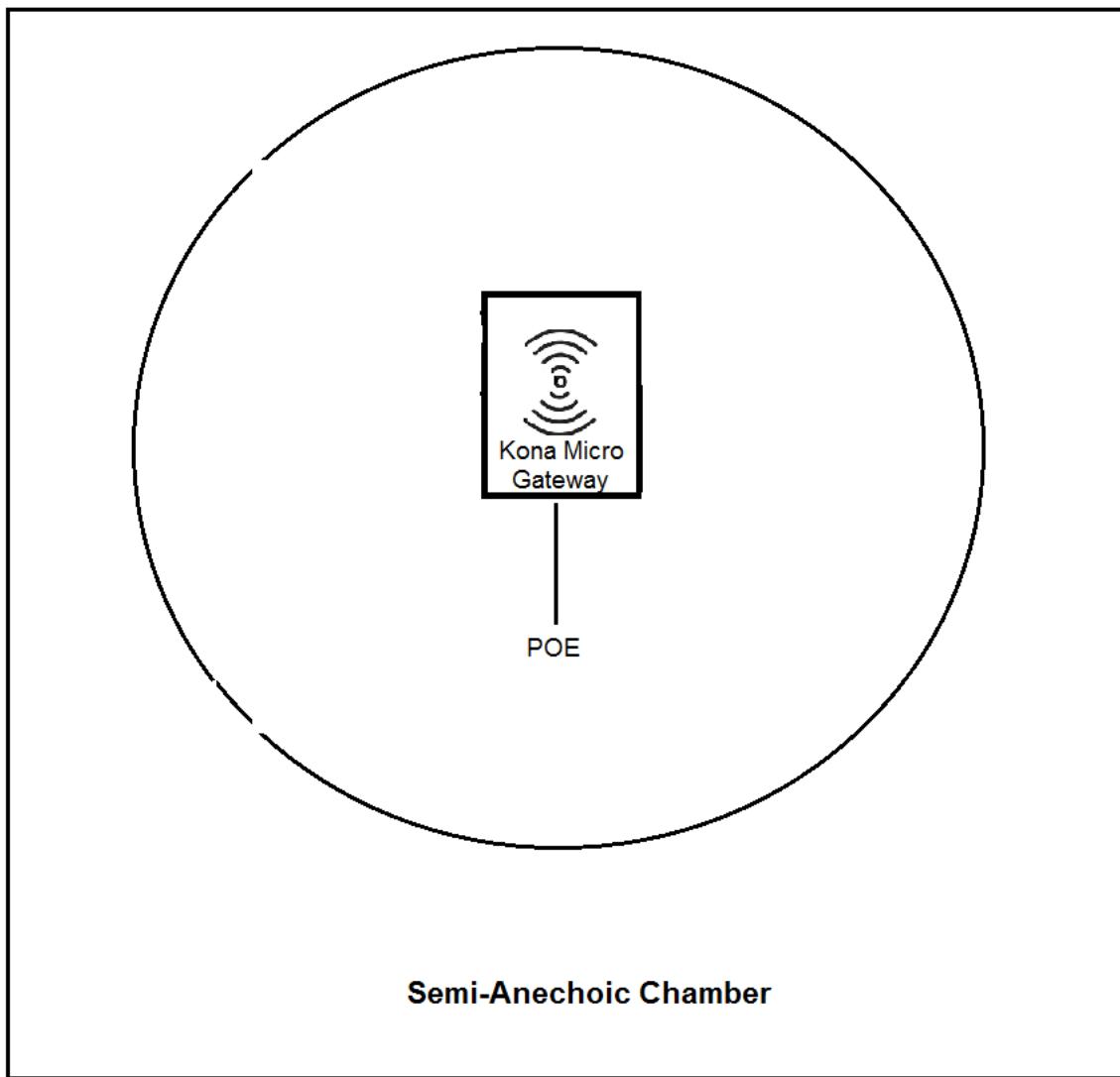
The KONA MICRO GATEWAY was placed at the center of the test chamber turntable on top of an 80-cm high polystyrene foam table below 1GHz and at 1.5m high polystyrene foam table above 1 GHz for transmits mode. Ground connection is provided as per customer specification. There is no external grounding.

3.3 Power Supply

For radiated emission and antenna port average power measurement input power was supplied via POE.

Appendix A – Test Setup Block Diagram

TX MODE



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