

FCC PART 15, SUBPART C

TEST REPORT

For

Nevada Nanotechnologies, Inc.

1395 Greg St. Sparks, NV 89431, USA

FCC ID: 2BAGY-MTEP

Report Type: Product Type:

Original Report

Methane Sensor

Libass Thiaw

Prepared By: Test Engineer

SubaseThian

Report Number: R2406041-DSS

Report Date: 2024-09-23

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^{*} This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "*"

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	R2406041-DSS	Original Report	2024-09-23

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1 General Description

1.1 Product Description for Equipment Under Test (EUT)

This test and measurement report was prepared on behalf of *Nevada Nanotechnologies, Inc.* and their product model: *Methane Tracker Endpoint*, FCC ID: 2BAGY-MTEP or the "EUT" as referred to in this report. It is a device that operates in 902-928 MHz Radio.

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1.2 Mechanical Description of EUT

The EUT measures approximately 14.9 cm (Length), 8.2 cm (Width), and 7.3 cm (Height) and weighs 0.45kg.

The data gathered was from a production sample provided by Nevada Nanotechnologies with S/N: 122-000005

1.3 Objective

This report was prepared on behalf of *Nevada Nanotechnologies*, in accordance with Part 2, Subpart J, and Part 15, Subparts B and C of the Federal Communication Commission's rules.

The objective was to determine compliance with FCC Part 15.247 for Output Power, Antenna Requirements, 20 dB Bandwidth, 100 kHz Bandwidth of Band Edges Measurement, Conducted and Radiated Spurious Emissions, Number of Hopping Channels, Dwell Time, and Hopping Channel Separation.

1.4 Related Submittal(s)/Grant(s)

FCC Part 15C Equipment Class: DTS with FCC ID: 2BAGY-MTEP.

1.5 Test Methodology

All measurements contained in this report were conducted in accordance with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

1.6 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in the field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on CISPR16-4-2:2011, The Treatment of Uncertainty in EMC Measurements, the values ranging from ± 2.0 dB for Conducted Emissions tests and ± 4.0 dB for Radiated Emissions tests are the most accurate estimates pertaining to uncertainty of EMC measurements at BACL Corp.

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1.7 Test Facility Accreditations

Bay Area Compliance Laboratories Corp. (BACL) is:

A- An independent, 3rd-Party, Commercial Test Laboratory accredited to ISO/IEC 17025:2005 by A2LA (Test Laboratory Accreditation Certificate Number 3297.02), in the fields of: Electromagnetic Compatibility and Telecommunications. Unless noted by an Asterisk (*) in the Compliance Matrix (See Section 3 of this Test Report), BACL's ISO/IEC 17025:2005 Scope of Accreditation includes all of the Test Method Standards and/or the Product Family Standards detailed in this Test Report..

BACL's ISO/IEC 17025:2005 Scope of Accreditation includes a comprehensive suite of EMC Emissions, EMC Immunity, Radio, RF Exposure, Safety and wireline Telecommunications test methods applicable to a wide range of product categories. These product categories include Central Office Telecommunications Equipment [including NEBS - Network Equipment Building Systems], Unlicensed and Licensed Wireless and RF devices, Information Technology Equipment (ITE); Telecommunications Terminal Equipment (TTE); Medical Electrical Equipment; Industrial, Scientific and Medical Test Equipment; Professional Audio and Video Equipment; Industrial and Scientific Instruments and Laboratory Apparatus; Cable Distribution Systems, and Energy Efficient Lighting.

B- A Product Certification Body accredited to ISO/IEC 17065:2012 by A2LA (Product Certification Body Accreditation Certificate Number 3297.03) to certify

- For the USA (Federal Communications Commission):
 - 1- All Unlicensed radio frequency devices within FCC Scopes A1, A2, A3, and A4;
 - 2- All Licensed radio frequency devices within FCC Scopes B1, B2, B3, and B4;
 - 3- All Telephone Terminal Equipment within FCC Scope C.
- For the Canada (Industry Canada):
 - 1 All Scope 1-Licence-Exempt Radio Frequency Devices;
 - 2 All Scope 2-Licensed Personal Mobile Radio Services;
 - 3 All Scope 3-Licensed General Mobile & Fixed Radio Services;
 - 4 All Scope 4-Licensed Maritime & Aviation Radio Services;
 - 5 All Scope 5-Licensed Fixed Microwave Radio Services
 - 6 All Broadcasting Technical Standards (BETS) in the Category I Equipment Standards List.
- For Singapore (Info-Communications Development Authority (IDA)):
 - 1 All Line Terminal Equipment: All Technical Specifications for Line Terminal Equipment Table 1 of IDA MRA Recognition Scheme: 2011, Annex 2
 - 2. All Radio-Communication Equipment: All Technical Specifications for Radio-Communication Equipment Table 2 of IDA MRA Recognition Scheme: 2011, Annex 2
- For the Hong Kong Special Administrative Region:
 - 1 All Radio Equipment, per KHCA 10XX-series Specifications;
 - 2 All GMDSS Marine Radio Equipment, per HKCA 12XX-series Specifications;
 - 3 All Fixed Network Equipment, per HKCA 20XX-series Specifications.
- For Japan:
 - 1 MIC Telecommunication Business Law (Terminal Equipment):
 - All Scope A1 Terminal Equipment for the Purpose of Calls;
 - All Scope A2 Other Terminal Equipment
 - 2 Radio Law (Radio Equipment):
 - All Scope B1 Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 1 of the Radio Law
 - All Scope B2 Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 2 of the Radio Law
 - All Scope B3 Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 3 of the Radio Law

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C- A Product Certification Body accredited to ISO/IEC 17065:2012 by A2LA (Product Certification Body Accreditation Certificate Number 3297.01) to certify Products to USA's Environmental Protection Agency (EPA) ENERGY STAR Product Specifications for:

- 1 Electronics and Office Equipment:
 - for Telephony (ver. 3.0)
 - for Audio/Video (ver. 3.0)
 - for Battery Charging Systems (ver. 1.1)
 - for Set-top Boxes & Cable Boxes (ver. 4.1)
 - for Televisions (ver. 6.1)
 - for Computers (ver. 6.0)
 - for Displays (ver. 6.0)
 - for Imaging Equipment (ver. 2.0)
 - for Computer Servers (ver. 2.0)
- 2 Commercial Food Service Equipment
 - for Commercial Dishwashers (ver. 2.0)
 - for Commercial Ice Machines (ver. 2.0)
 - for Commercial Ovens (ver. 2.1)
 - for Commercial Refrigerators and Freezers
- 3 Lighting Products
 - For Decorative Light Strings (ver. 1.5)
 - For Luminaires (including sub-components) and Lamps (ver. 1.2)
 - For Compact Fluorescent Lamps (CFLs) (ver. 4.3)
 - For Integral LED Lamps (ver. 1.4)
- 4 Heating, Ventilation, and AC Products
 - for Residential Ceiling Fans (ver. 3.0)
 - for Residential Ventilating Fans (ver. 3.2)
- 5 Other
- For Water Coolers (ver. 3.0)

D. A NIST Designated Phase-I and Phase-II Conformity Assessment Body (CAB) for the following economies and regulatory authorities under the terms of the stated MRAs/Treaties:

- Australia: ACMA (Australian Communication and Media Authority) APEC Tel MRA -Phase I;
- Canada: (Industry Canada IC) Foreign Certification Body FCB APEC Tel MRA -Phase I & Phase II;
- Chinese Taipei (Republic of China Taiwan):
 - o BSMI (Bureau of Standards, Metrology and Inspection) APEC Tel MRA -Phase I;
 - o NCC (National Communications Commission) APEC Tel MRA -Phase I;
- European Union:
 - o EMC Directive 2014/30/EC US-EU EMC & Telecom MRA CAB
 - o Radio & Teleterminal Equipment (R&TTE) Directive 1995/5/EC
 - US -EU EMC & Telecom MRA CAB

Hong Kong Special Administrative Region: (Office of the Telecommunications Authority – OFTA)
APEC Tel MRA -Phase I & Phase II

- Israel US-Israel MRA Phase I
- Republic of Korea (Ministry of Communications Radio Research Laboratory) APEC Tel MRA -Phase I
- Singapore: (Infocomm Development Authority IDA) APEC Tel MRA -Phase I & Phase II;
- Japan: VCCI Voluntary Control Council for Interference US-Japan Telecom Treaty VCCI Side Letter-
- USA:
 - o ENERGY STAR Recognized Test Laboratory US EPA
 - Telecommunications Certification Body (TCB) US FCC;

Vietnam: APEC Tel MRA -Phase I

2 System Test Configuration

2.1 Justification

The EUT was configured for testing in accordance to ANSI C63.10.

The worst-case data rates are determined by measuring the peak power across all data rates.

2.2 EUT Exercise Software

The EUT has built-in test firmware.

Channel	Channel Frequency (MHz)	Power Setting
Low	902.3	20
Middle	908.7	20
High	914.9	20

2.3 Duty Cycle Correction Factor

According to KDB 558074 D01 DTS Meas Guidance v05r02 section 6.0:

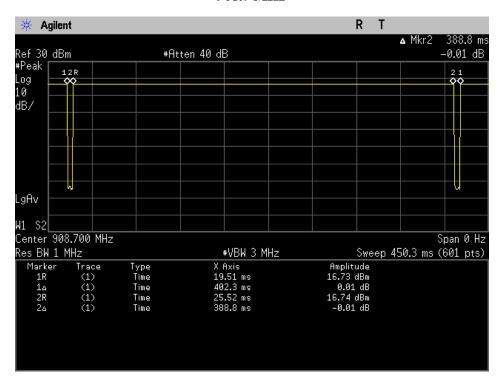
Preferably, all measurements of maximum conducted (average) output power will be performed with the EUT transmitting continuously (i.e., with a duty cycle of greater than or equal to 98%). When continuous operation cannot be realized, then the use of sweep triggering/signal gating techniques can be utilized to ensure that measurements are made only during transmissions at the maximum power control level. Such sweep triggering/signal gating techniques will require knowledge of the minimum transmission duration (T) over which the transmitter is on and is transmitting at itPs maximum power control level for the tested mode of operation. Sweep triggering/signal gating techniques can then be used if the measurement/sweep time of the analyzer can be set such that it does not exceed T at any time that data is being acquired (i.e., no transmitter off-time is to be considered).

Radio frequency (MHz)	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
908.7	388.8	402.3	96.6	0.148

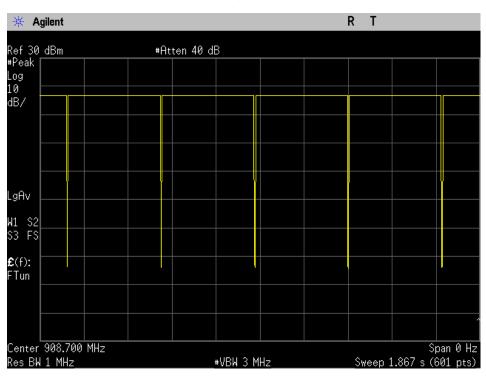
Duty Cycle = On Time (ms)/ Period (ms)
Duty Cycle Correction Factor (dB) = 10*log(1/Duty Cycle)

Please refer to the following plots.

908.7 MHz



Proof of periodicity



2.4 Equipment Modifications

None.

2.5 Local Support Equipment

Manufacturer	Model	Serial Number	
Lenovo	Laptop	-	

2.6 Remote Support Equipment

None

2.7 Interface Ports and Cabling

Cable Descriptions	Length (m)	From	То
USB to TTL Serial	< 1 m	EUT	Laptop
RF	< 1 m	EUT	PSA

3 Summary of Test Results

Results reported relate only to the product tested.

FCC	Description of Test	Results
FCC §15.203	Antenna Requirement	Compliant
FCC §15.207, §15.212	AC Line Conducted Emissions	N/A*
FCC §2.1091, §15.247(i)	RF Exposure	Compliant
FCC §2.1053, §15.205, §15.209, §15.247(d)	Radiated Spurious Emissions	Compliant
FCC §15.247(a)(1)(i)	20 dB & 99% Emission Bandwidth	Compliant
FCC §15.247(b)(2)	Maximum Peak Output Power	Compliant
FCC §15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliant
FCC §15.247(a)(1)(i)	Number of Hopping Channels	Compliant
FCC §15.247(a)(1)	Hopping Channel Separation	Compliant
FCC §15.247(a)(1)(i)	Dwell Time	Compliant

Note: N/A* The EUT is battery powered.

4 FCC §15.203 - Antenna Requirements

4.1 Applicable Standards

According to FCC §15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

And according to FCC §15.247 (b) (4), if transmitting antennas of directional gain greater than 6 dBi are used the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

4.2 Antenna Description

The antennas used by the EUT have unique coupling to the intentional radiator.

External/Internal/	Frequency Range	Antenna Type	Maximum Antenna
Integral	(MHz)		Gain (dBi)
Integral	902-928 MHz	Custom PCB Antenna	-0.91

Note: antenna gain is information provided by customer.

5 FCC §2.1091, §15.247 - 102- RF Exposure

5.1 Applicable Standards

According to FCC §15.247(i), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm²)	Averaging Time (minutes)
	Limits for Gen	eral Population/Unco	ntrolled Exposure	
0.3-1.34	614	1.63	* (100)	30
1.34-30	824/f	2.19/f	* (180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz

^{* =} Plane-wave equivalent power density

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5.2 MPE Prediction

Predication of MPE limit at a given distance, Equation from OET Bulletin 65, Edition 97-01

 $S = PG/4\pi R^2$

Where: S = power density

P = power input to antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

5.3 MPE Results for the FCC

Maximum peak output power at antenna input terminal (dBm):

Maximum peak output power at antenna input terminal (mW):

Prediction distance (cm):

Prediction frequency (MHz):

Maximum Antenna Gain, typical (dBi):

Maximum Antenna Gain (numeric):

Power density of prediction frequency at 20.0 cm (mW/cm²):

PCC MPE limit for uncontrolled exposure at prediction frequency (mW/cm²):

16.99

50.00

20

902.3

-0.91

0.81

The device is compliant with the requirement MPE limit for uncontrolled exposure. The maximum power density at the distance of 20 cm is 0.008mW/cm^2 . Limit is 0.60 mW/cm^2 .

6 FCC §15.209, §15.247(d) - Spurious Radiated Emissions

6.1 Applicable Standards

As per FCC §15.35(d): Unless otherwise specified, on any frequency or frequencies above 1000 MHz, the radiated emission limits are based on the use of measurement instrumentation employing an average detector function. Unless otherwise specified, measurements above 1000 MHz shall be performed using a minimum resolution bandwidth of 1 MHz.

As Per FCC §15.205(a) except as show in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
$\begin{array}{c} 0.090 - 0.110 \\ 0.495 - 0.505 \\ 2.1735 - 2.1905 \\ 4.125 - 4.128 \\ 4.17725 - 4.17775 \\ 4.20725 - 4.20775 \\ 6.215 - 6.218 \\ 6.26775 - 6.26825 \\ 6.31175 - 6.31225 \\ 8.291 - 8.294 \\ 8.362 - 8.366 \\ 8.37625 - 8.38675 \\ 8.41425 - 8.41475 \\ 12.29 - 12.293 \\ 12.51975 - 12.52025 \\ 13.36 - 13.41 \end{array}$	16.42 - 16.423 $16.69475 - 16.69525$ $25.5 - 25.67$ $37.5 - 38.25$ $73 - 74.6$ $74.8 - 75.2$ $108 - 121.94$ $123 - 138$ $149.9 - 150.05$ $156.52475 - 156.52525$ $156.7 - 156.9$ $162.0125 - 167.17$ $167.72 - 173.2$ $240 - 285$ $322 - 335.4$ $399.9 - 410$ $608 - 614$	$\begin{array}{c} 960-1240 \\ 1300-1427 \\ 1435-1626.5 \\ 1645.5-1646.5 \\ 1660-1710 \\ 1718.8-1722.2 \\ 2200-2300 \\ 2310-2390 \\ 2483.5-2500 \\ 2690-2900 \\ 3260-3267 \\ 3.332-3.339 \\ 33458-3358 \\ 3.600-4.400 \end{array}$	4. 5 – 5. 15 5. 35 – 5. 46 7.25 – 7.75 8.025 – 8.5 9.0 – 9.2 9.3 – 9.5 10.6 – 12.7 13.25 – 13.4 14.47 – 14.5 15.35 – 16.2 17.7 – 21.4 22.01 – 23.12 23.6 – 24.0 31.2 – 31.8 36.43 – 36.5 Above 38.6

As per FCC §15.209(a): Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (micro volts/meter)	Measurement Distance (meters)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100**	3
88 - 216	150**	3
216 - 960	200**	3
Above 960	500	3

^{**} Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

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As per FCC §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).

6.2 Test Setup

The radiated emissions tests were performed in the 5-meter Chamber, using the setup in accordance with ANSI C63.10-2013. The specification used was the FCC 15 Subpart C.

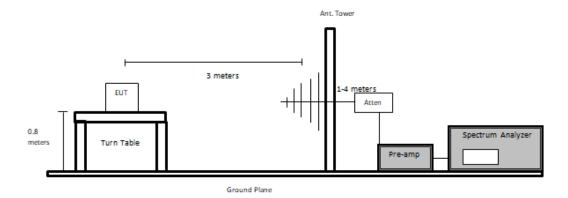
The spacing between the peripherals was 10 centimeters.

External I/O cables were draped along the edge of the test table and bundle when necessary.

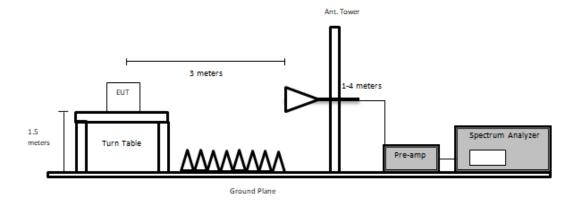
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6.3 Block Diagram

Below 1 GHz



Above 1 GHz



6.4 Test Procedure

For the radiated emissions test, the EUT host, and all support equipment power cords was connected to the AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

The EUT was set 3 meter away from the testing antenna, which was varied from 1-4 meter, and the EUT was placed on a turntable, which was 0.8 meter and 1.5 meter above the ground plane for below and above 1000 MHz measurements, the table shall be rotated for 360 degrees to find out the highest emission. The receiving antenna should be changed the polarization both of horizontal and vertical.

The spectrum analyzer or receiver is set as:

Below 1000 MHz:

$$RBW = 100 \text{ kHz} / VBW = 300 \text{ kHz} / Sweep = Auto$$

Above 1000 MHz:

- (1) Peak: RBW = 1MHz / VBW = 1MHz / Sweep = Auto
- (2) Average: RBW = 1MHz / VBW = 10Hz / Sweep = Auto

6.5 Corrected Amplitude & Margin Calculation

For emissions below 1 GHz and for above 1GHz scans.

The Corrected Amplitude (CA) is calculated by adding the Correction Factor to the S.A. Reading. The basic equation is as follows:

$$CA = S.A.$$
 Reading + Correction Factor

For example, a corrected amplitude of 40.3 dBuV/m = S.A. Reading (32.5 dBuV) + Correction Factor (7.8 dB/m)

The Correction Factor is calculated by adding the Antenna Factor (AF), the Cable Loss (CL), the Attenuator Factor (Atten) and subtracting the Amplifier Gain (Ga) together. This calculation is done in the measurement software, and reported in the test result section. The basic equation is as follows:

Correction Factor =
$$AF + CL + Atten - Ga$$

The "Margin" column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of -7 dB means the emission is 7 dB below the maximum limit. The equation for margin calculation is as follows:

For emission above 1 GHz,

The Corrected Amplitude (CA) is calculated by adding the Antenna Factor (AF), the Cable Loss (CL), the Attenuator Factor (Atten) and subtracting the Amplifier Gain (Ga) to indicated Amplitude (Ai) reading. The basic equation is as follows:

$$CA = Ai + AF + CL + Atten - Ga$$

For example, a corrected amplitude of 40.3 dBuV/m = Indicated Reading (32.5 dBuV) + Antenna Factor (+23.5dB) + Cable Loss (3.7 dB) + Attenuator (10 dB) - Amplifier Gain (29.4 dB)

The "Margin" column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of -7 dB means the emission is 7 dB below the maximum limit. The equation for margin calculation is as follows:

Margin = Corrected Amplitude – Limit

6.6 Test Equipment List and Details

BACL No.	Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Interval
310	Rhode & Schwarz	EMI Test Receiver	ESCI 1166.5950. 03	100338	2024-05-29	1 year
424	Agilent	Spectrum Analyzer	E4440A	US45303156	2024-03-06	1 year
327	Sunol Science Corp	System Controller	SC110V	122303-1	N/R	N/A
1075	Sunol Sciences	Boresight Tower	TLT3	050119-7	N/R	N/A
1388	Sunol Sciences	Flush Mount Turntable	FM	112005-2	N/R	N/A
316	Sonoma Instruments	Preamplifier 10 kHz - 2.5 GHz	317	260406	2024-02-27	6 months
1449	BACL	Preamplifier	BACL1313 - A100M18G	4052472	2024-07-11	6 months
321	Sunol Sciences	Biconilog Antenna	JB3	A020106-2; 1504	2023-12-18	2 years
1192	ETS Lindgren	Horn Antenna	3117	00218973	2022-09-29	2 years
1186	Pasternack	Coaxial Cable, RG214	PE3062- 1050CM	N/A	2024-04-09	6 months
1248	Pasternack	RG214 COAX Cable	PE3062	-	2024-04-04	6 months
1249	Time Microwave	LMR-400 Cable Dc-3 Ghz	AE13684	2k80612-5 6fts	2024-04-09	6 months
1355	Megaphase	2.92mm 236in RF Cable DC to 40GHz	GC12- K1K1-236- H	1 GVT4 20554701 001	2024-02-27	6 months
1356	Pasternack	N 28ft RF Cable	RG213	062421	2024-07-02	6 months
1329	Pasternack	2.92mm short coaxial cable	PE360-12	NA	2024-07-10	6 months
-	-	RF Cable (x2)	-	-	Each Time ¹	-
1245	-	6dB Atennuator	PE7390-6	01182018A	2022-11-22	2 year
1246	HP	RF Limiter	11867A	01734	2024-04-09	1 year
1517	Micro-Tronics	Notch Filter, 902-928 MHz BAND	BRC50722	G038	Each Time ¹	-
1232	Micro-Tronics	>1GHz High-pass Filter	HPM20242	001	Each Time ¹	-

Note¹: equipment included in the test set-up will be checked each time before testing.

Statement of Traceability: BACL Corp. attests that all of the calibrations on the equipment items listed above were traceable to NIST or to another internationally recognized National Metrology Institute (NMI), and were compliant with the latest version of A2LA policy P102 "A2LA Policy on Metrological Traceability".

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6.7 Test Environmental Conditions

Temperature:	23 °C		
Relative Humidity:	46%		
ATM Pressure:	102.2 kPa		

The testing was performed by Arturo Reyes on 2024-08-14 in 5m chamber 3.

6.8 Summary of Test Results

According to the data hereinafter, the EUT <u>complied with FCC Title 47, Part 15C</u> standard's radiated emissions limits, and had the worst margin of:

Mode: Transmitting									
Margin (dB)	Frequency (MHz)	Polarization (Horizontal/Vertical)	Transmitting Channel						
-0.33	940.6445	Horizontal	908.7 MHz						

Please refer to the following table and plots for specific test result details.

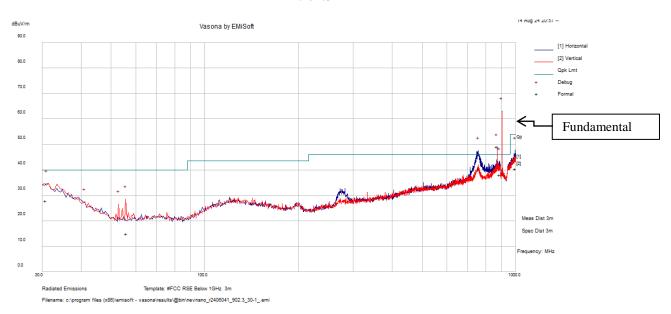
6.9 Radiated Emissions Test Results

Note: All peaks exceeding the limit line in the graph that are not the fundamental, fall out of restricted bands and thus 30dBc limit (FCC 15.247(d)) was instead applied.

Fundamental measured for low, middle, and high channel: (124dBuV/m @3m) - 30dB = 94dBuV/m @3m); (123.8dBuV/m @3m) - 30dB = 93.8dBuV/m @3m); (123.7dBuV/m @3m) - 30dB = 93.7dBuV/m @3m)

1) 30 MHz to 1 GHz, Measured at 3 meters

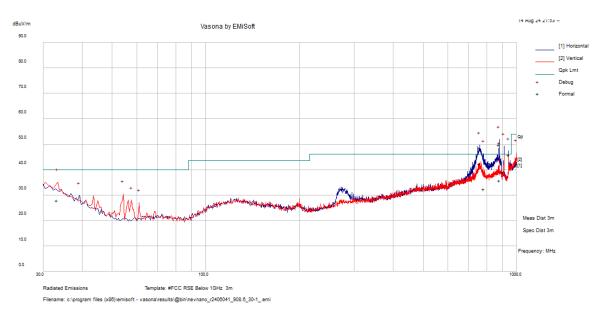
902.3 MHz



Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBµV/m)	Margin (dB)	Comment
870.26225	44.95	4.16	49.1	120	Н	305	94	-44.9	Quasi- Peak
757.99625	37.87	2.43	40.3	145	Н	298	46	-5.7	Quasi- Peak
885.143	33.89	4.16	38.06	179	Н	142	46	-7.94	Quasi- Peak
30.7795	29.2	-1.4	27.8	225	V	281	40	-12.2	Quasi- Peak
994.004	34.79	5.67	40.46	147	Н	284	54	-13.54	Quasi- Peak
55.876	28.91	-14.04	14.87	132	V	247	40	-25.13	Quasi- Peak

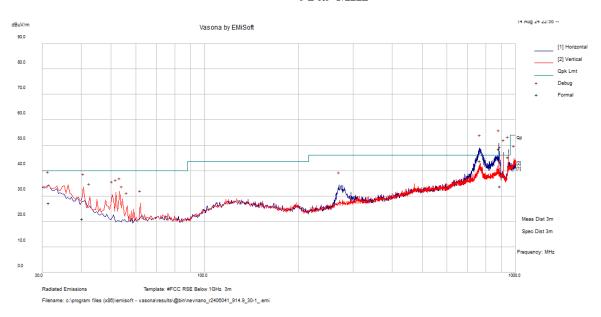
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908.7 MHz



Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBµV/m)	Margin (dB)	Comment
876.5953	45.52	4.16	49.68	100	Н	335	93.8	-44.12	Quasi- Peak
759.5463	39.82	2.43	42.25	111	Н	300	46	-3.75	Quasi- Peak
940.6445	40.98	4.7	45.67	141	Н	330	46	-0.33	Quasi- Peak
782.4805	29.6	2.77	32.37	221	Н	120	46	-13.63	Quasi- Peak
880.913	31.56	4.13	35.7	261	Н	315	46	-10.3	Quasi- Peak
33.18725	31.09	-3.15	27.94	145	V	74	40	-12.06	Quasi- Peak

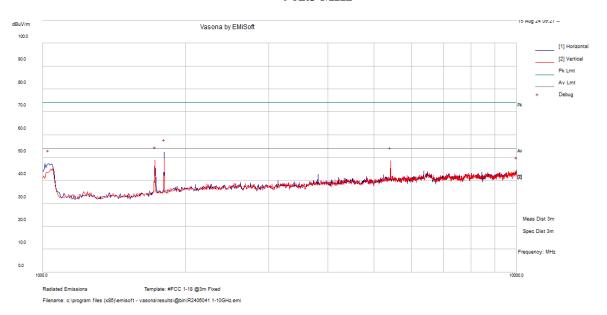
914.9 MHz



Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBµV/m)	Margin (dB)	Comment
882.9375	44.35	4.15	48.5	103	Н	341	93.7	-45.2	Quasi- Peak
767.3348	41.29	2.55	43.84	103	Н	308	46	-2.16	Quasi- Peak
946.931	40.49	4.79	45.29	220	Н	303	46	-0.71	Quasi- Peak
890.8968	29.58	4.18	33.76	205	Н	113	46	-12.24	Quasi- Peak
31.48725	29.16	-1.95	27.21	181	Н	211	40	-12.79	Quasi- Peak
40.4675	29.14	-8.03	21.11	242	V	209	40	-18.89	Quasi- Peak

1) 1GHz to 10GHz, Measured at 3 meters

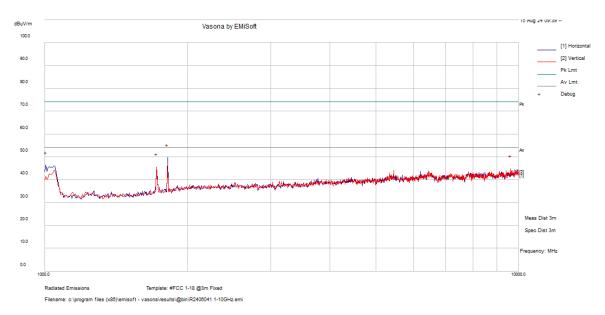
902.3 MHz



Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBµV/m)	Margin (dB)	Comment
1804.375	61.46	-9.2	52.27	100	Н	0	54	-1.73	Peak
1725.625	58.81	-9.88	48.93	200	V	0	54	-5.07	Peak
5415.625	51.65	-3.01	48.64	300	V	0	54	-5.37	Peak
1028.125	61.73	-14.22	47.5	100	Н	0	54	-6.5	Peak
9988.75	43.85	0.69	44.54	200	Н	0	54	-9.46	Peak

Note: The plot above shows that all peak emissions from 1 to 10 GHz passed the average limits.

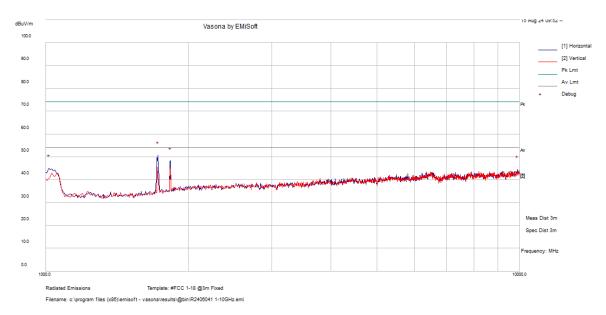
908.7 MHz



Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBµV/m)	Margin (dB)	Comment
1815.625	58.67	-8.97	49.71	200	Н	0	54	-4.3	Peak
1005.625	60.18	-13.79	46.39	200	Н	0	54	-7.61	Peak
1720	55.55	-9.92	45.64	300	V	0	54	-8.36	Peak
9611.875	44.8	0.01	44.81	100	V	0	54	-9.19	Peak

Note: The plot above shows that all peak emissions from 1 to 10 GHz passed the average limits.

914.9 MHz



Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBµV/m)	Margin (dB)	Comment
1725.625	60.57	-9.88	50.69	100	Н	0	54	-3.31	Peak
1832.5	57.01	-8.77	48.25	200	Н	0	54	-5.76	Peak
1016.875	59.09	-14.05	45.04	100	Н	0	54	-8.96	Peak
9881.875	43.8	0.76	44.56	100	V	0	54	-9.44	Peak

Note: The plot above shows that all peak emissions from 1 to 10 GHz passed the average limits.

7 FCC §15.247(a) (1)(i) - Emission Bandwidth

7.1 Applicable Standards

According to FCC §15.247(a) (1): the maximum 20 dB bandwidth of the hopping channel shall be presented.

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

7.2 Measurement Procedure

Span = approximately 2 to 5 times the 99% occupied bandwidth, centered on a hopping channel

RBW = 1% to 5 % of the 99% occupied bandwidth

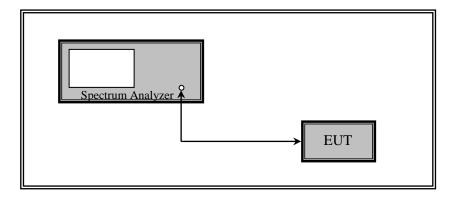
VBW = 3RBW

Sweep = auto

Detector function = peak

Trace = max hold

7.3 Test Setup Block Diagram



7.4 Test Equipment List and Details

BACL No.	Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Interval
624	Agilent	Spectrum Analyzer	E4446A	MY48250238	2024-06-14	1 year
-	-	SMA cable	-	-	Each time ¹	N/A

Note¹: cable included in the test set-up will be checked each time before testing.

Statement of Traceability: BACL Corp. attests that all of the calibrations on the equipment items listed above were traceable to NIST or to another internationally recognized National Metrology Institute (NMI), and were compliant with the latest version of A2LA policy P102 "A2LA Policy on Metrological Traceability".

7.5 Test Environmental Conditions

Temperature:	21°C
Relative Humidity:	39%
ATM Pressure:	102.0 kPa

The testing was performed by Libass Thiaw on 2024-07-23 in RF Bench

7.6 Test Results

Channel	Frequency (MHz)	99% OBW (kHz)	20 dB OBW (kHz)	Limits (kHz)	Results
Low	902.3	178.915	139.540	< 500	Compliant
Middle	908.7	178.808	143.338	< 500	Compliant
High	914.9	171.554	141.529	< 500	Compliant

Please refer to Annex A for detailed test results.

8 FCC §15.247(b) (2) - Output Power

8.1 Applicable Standards

According to FCC §15.247(b) (2): For frequency hopping systems operating in the 902-928 MHz band: 1 watt for systems employing at least 50 hopping channels; and, 0.25 watts for systems employing less than 50 hopping channels, but at least 25 hopping channels, as permitted under paragraph (a)(1)(i) of this section.

8.2 Measurement Procedure

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

RBW > the 20 dB bandwidth of the emission being measured

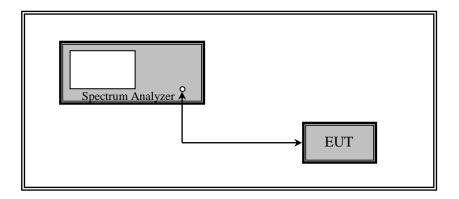
 $VBW \ge RBW$

Sweep = auto

Detector function = peak

Trace = max hold

8.3 Test Setup Block Diagram



8.4 Test Equipment List and Details

BACL No.	Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Interval
624	Agilent	Spectrum Analyzer	E4446A	MY48250238	2024-06-14	1 year
-	-	SMA cable	-	-	Each time ¹	N/A

Note¹: cable included in the test set-up will be checked each time before testing.

Statement of Traceability: BACL Corp. attests that all of the calibrations on the equipment items listed above were traceable to NIST or to another internationally recognized National Metrology Institute (NMI), and were compliant with the latest version of A2LA policy P102 "A2LA Policy on Metrological Traceability".

8.5 Test Environmental Conditions

Temperature:	21°C
Relative Humidity:	39%
ATM Pressure:	102.0 kPa

The testing was performed by Libass Thiaw on 2024-07-23 in RF Bench

8.6 Test Results

Channel	Frequency (MHz)	Antenna Gain (dBi)	Conducted Output Power (dBm)	Output Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Results
Low	902.3	-0.91	16.99	< 30	16.08	< 36	Compliant
Middle	908.7	-0.91	16.78	< 30	15.87	< 36	Compliant
High	914.9	-0.91	16.71	< 30	15.8	< 36	Compliant

Please refer to Annex B for detailed test results.

9 FCC §15.247(d) - 100 kHz Bandwidth of Spurious Emission

9.1 Applicable Standards

According to FCC §15.247(d), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum 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. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emissions limits specified in §15.209(a) see §15.205(c).

9.2 Measurement Procedure

Span = wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products which fall outside of the authorized band of operation

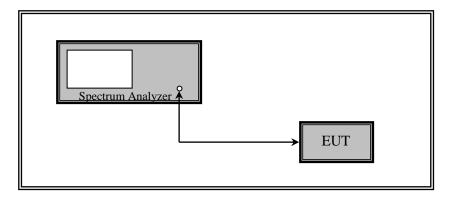
RBW = 100 kHz VBW = 300 kHz Sweep = coupled

 $Detector\ function = peak$

Trace = max hold

For hopping mode, a radiated sample was measured with horn antenna. Delta between the emission levels at fundamental frequency and band-edge frequency was measured.

9.3 Test Setup Block Diagram



9.4 Test Equipment List and Details

BACL No.	Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Interval
624	Agilent	Spectrum Analyzer	E4446A	MY48250238	2024-06-14	1 year
-	-	SMA cable	-	-	Each time ¹	N/A

Note¹: cable included in the test set-up will be checked each time before testing.

Statement of Traceability: BACL Corp. attests that all of the calibrations on the equipment items listed above were traceable to NIST or to another internationally recognized National Metrology Institute (NMI), and were compliant with the latest version of A2LA policy P102 "A2LA Policy on Metrological Traceability".

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9.5 Test Environmental Conditions

Temperature:	21°C
Relative Humidity:	39%
ATM Pressure:	102.0 kPa

The testing was performed by Libass Thiaw on 2024-07-23 in RF Bench

9.6 Test Results

Please refer to Annex C for detailed test results.

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10 FCC §15.247(a) (1) (i) - Dwell Time

10.1 Applicable Standards

According to FCC §15.247(a) (1) (i): For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz

10.2 Measurement Procedure

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

Span = zero span, centered on a hopping channel

RBW ≤ channel spacing and where possible RBW should be set >> 1/T, where T is the expected dwell time per channel

Sweep = as necessary to capture the entire dwell time per hopping channel

Detector function = peak

Trace = max hold

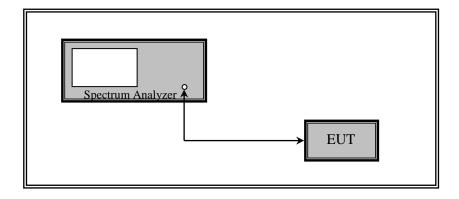
Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time.

Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation:

(Number of hops in the period specified in the requirements) = (number of hops on spectrum analyzer) x (period specified in the requirements / analyzer sweep time)

The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified. If the number of hops in a specific time varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation.

10.3 Test Setup Block Diagram



10.4 Test Equipment List and Details

BACL No.	Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Interval
624	Agilent	Spectrum Analyzer	E4446A	MY48250238	2024-06-14	1 year
-	-	SMA cable	-	-	Each time ¹	N/A

Note¹: cable included in the test set-up will be checked each time before testing.

Statement of Traceability: BACL Corp. attests that all of the calibrations on the equipment items listed above were traceable to NIST or to another internationally recognized National Metrology Institute (NMI), and were compliant with the latest version of A2LA policy P102 "A2LA Policy on Metrological Traceability".

10.5 Test Environmental Conditions

Temperature:	21°C
Relative Humidity:	39%
ATM Pressure:	102.0 kPa

The testing was performed by Libass Thiaw on 2024-08-01 in RF Bench

10.6 Test Results

Channel	Frequency	No. of Pulses (per 20 sec)	Pulse Width (ms)	Total Dwell Time (ms)	Limit (sec)	Results
Low	902.3	1	399.2	399.2	≤ 0.400	Compliant
Middle	908.7	1	399.2	399.2	≤ 0.400	Compliant
High	914.9	1	399.2	399.2	≤ 0.400	Compliant

Total Dwell Time (ms) = (Number of Pulses per 20 seconds x Pulse Width (ms))/1000

Please refer to Annex D for detailed test results.

11 FCC §15.247(a)(1)(i) - Number of Hopping Channels

11.1 Applicable Standards

According to FCC §15.247(a) (1) (i)-: For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz

11.2 Test Procedure

Span = the frequency band of operation

RBW < 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller

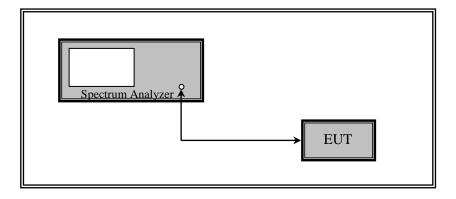
 $VBW \ge RBW$

Sweep = auto

Detector function = peak

Trace = max hold

11.3 Test Setup Block Diagram



11.4 Test Equipment List and Details

BACL No.	Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Interval
624	Agilent	Spectrum Analyzer	E4446A	MY48250238	2024-06-14	1 year
-	-	SMA cable	-	-	Each time ¹	N/A

Note¹: cable included in the test set-up will be checked each time before testing.

Statement of Traceability: BACL Corp. attests that all of the calibrations on the equipment items listed above were traceable to NIST or to another internationally recognized National Metrology Institute (NMI), and were compliant with the latest version of A2LA policy P102 "A2LA Policy on Metrological Traceability".

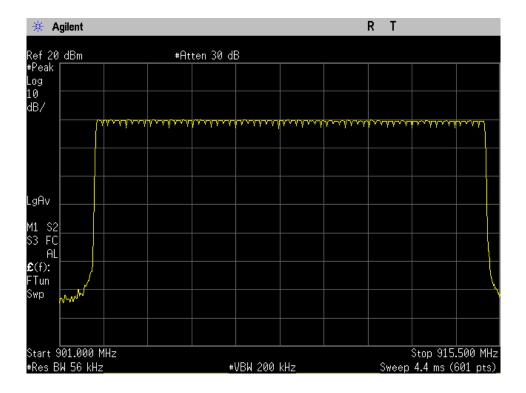
11.5 Test Environmental Conditions

Temperature:	21°C
Relative Humidity:	39%
ATM Pressure:	102.0 kPa

The testing was performed by Libass Thiaw on 2024-08-01 in RF Bench

11.6 Test Results

Total 64 channels; please refer to the plots hereinafter.



12 FCC §15.247(a) (1) - Hopping Channel Separation

12.1 Applicable Standards

According to FCC §15.247(a) (1): Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

According to FCC §15.247(a) (1) (i): For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz

12.2 Test Procedure

Span = wide enough to capture the peaks of two adjacent channels

Resolution (or IF) Bandwidth (RBW) \approx 30% of the channel spacing, adjust as necessary to best identify the center of each individual channel

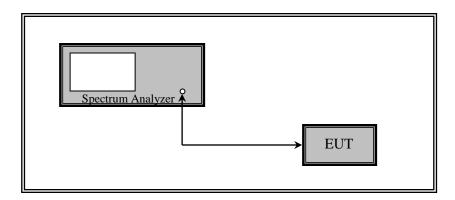
Video (or Average) Bandwidth (VBW) ≥RBW

Sweep = auto

Detector function = peak

Trace = max hold

12.3 Test Setup Block Diagram



12.4 Test Equipment List and Details

BACL No.	Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Interval
624	Agilent	Spectrum Analyzer	E4446A	MY48250238	2024-06-14	1 year
-	-	SMA cable	-	-	Each time ¹	N/A

Note¹: cable included in the test set-up will be checked each time before testing.

Statement of Traceability: BACL Corp. attests that all of the calibrations on the equipment items listed above were traceable to NIST or to another internationally recognized National Metrology Institute (NMI), and were compliant with the latest version of A2LA policy P102 "A2LA Policy on Metrological Traceability".

12.5 Test Environmental Conditions

Temperature:	21°C
Relative Humidity:	39%
ATM Pressure:	102.0 kPa

The testing was performed by Libass Thiaw on 2024-07-23 in RF Bench

12.6 Test Results

Channel	Frequency (MHz)	Channel Separation (kHz)	Limit 20 dB OBW (kHz)	Results
Low	902.3	189.7	≥139.540	Compliant
Middle	908.7	226.5	≥143.338	Compliant
High	914.9	210.1	≥141.529	Compliant

Please refer to Annex E for detailed test results.

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Nevada Nanotechnologies, Inc.	FCC ID: 2BAGY-MTEP			
13 Annex F (Normative) - Test Setup Photographs				
Please refer to attachment.				

levada Nanotechnologies, Inc.	FCC ID: 2BAGY-MTEP			
14 Annex G (Normative) - EUT External Photographs				
lease refer to attachment.				

Nevada Nanotechnologies, Inc.		FCC ID: 2BAGY-MTEP
5 Annex H (Normative) – E	UT Internal Photograph	s

16 Annex I (Normative) - A2LA Electrical Testing Certificate



Accredited Laboratory

A2LA has accredited

BAY AREA COMPLIANCE LABORATORIES CORP.

Sunnyvale, CA

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories. This laboratory also meets A2LA R222

- Specific Requirements EPA ENERGY STAR Accreditation Program. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 13th day of September 2024.

Mr. Trace McInturff, Vice President, Accreditation Services For the Accreditation Council Certificate Number 3297.02

FCC ID: 2BAGY-MTEP

Valid to September 30, 2026

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.

Please follow the web link below for a full ISO 17025 scope

https://www.a2la.org/scopepdf/3297-02.pdf

--- END OF REPORT ---