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12/18/2025

Tractian Technologies Inc
201 17th St NW Ste 200
Atlanta, GA 30363
USA

Dear Jorge Sousa,

Enclosed is the EMC Wireless test report for compliance testing of the Tractian Technologies Inc STUG2 as tested to the requirements of FCC 15.247 for Intentional Radiators. This test report pertains specifically to the 802.15.4 transmitter onboard which operates in the 915MHz band.

Thank you for using the services of Eurofins MET Labs. If you have any questions regarding these results or if MET can be of further service to you, please feel free to contact me.

Sincerely yours,
EUROFINS MET LABS

A handwritten signature in blue ink that reads "Nancy LaBrecque".

Nancy LaBrecque
Documentation Department

Reference: WIRA138806-FCC-802.15.4_R1

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802.15.4 Test Report

for the

Traction Technologies Inc
STUG2

Tested under
FCC 15.247
For Intentional Radiators



Veer Patel, EMC/Wireless Test Engineer
Electromagnetic Compatibility Lab



Nancy LaBrecque
Documentation Department

Engineering Statement: The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements of the FCC Rules Part 15.247 under normal use and maintenance.



Matthew Hinojosa
EMC Manager, Austin Electromagnetic Compatibility Lab

Report Status Sheet

Revision	Report Date	Reason for Revision
Ø	11/25/2025	Initial Issue.
1	12/18/2025	TCB Reviewer Comments

List of Terms and Abbreviations

AC	Alternating Current
ACF	Antenna Correction Factor
Cal	Calibration
<i>d</i>	Measurement Distance
dB	Decibels
dB μ A	Decibels above one microamp
dB μ V	Decibels above one microvolt
dB μ A/m	Decibels above one microamp per meter
dB μ V/m	Decibels above one microvolt per meter
DC	Direct Current
E	Electric Field
DSL	Digital Subscriber Line
ESD	Electrostatic Discharge
EUT	Equipment Under Test
<i>f</i>	Frequency
FCC	Federal Communications Commission
GRP	Ground Reference Plane
H	Magnetic Field
HCP	Horizontal Coupling Plane
Hz	Hertz
IEC	International Electrotechnical Commission
kHz	kilohertz
kPa	kilopascal
kV	kilovolt
LISN	Line Impedance Stabilization Network
MHz	Megahertz
μ H	microhenry
μ	microfarad
μ s	microseconds
NEBS	Network Equipment-Building System
PRF	Pulse Repetition Frequency
RF	Radio Frequency
RMS	Root-Mean-Square
TWT	Traveling Wave Tube
V/m	Volts per meter
VCP	Vertical Coupling Plane

I. Executive Summary

A. Purpose of Test

An EMC evaluation was performed to determine compliance of the STUG2, with the requirements of FCC 15.247 . Tractian Technologies Inc should retain a copy of this document which should be kept on file for at least two years after the manufacturing of the STUG2, has been **permanently** discontinued.

B. Executive Summary

The following tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC 15.247 , in accordance with Tractian Technologies Inc purchase order number 1015. All tests were conducted using measurement procedures ANSI C63.4-2014 and ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024.

FCC Reference 47 CFR Part 15.247	Description	Compliance
Title 47 of the CFR, Part 15 §15.203	Antenna Requirement	Compliant
Title 47 of the CFR, Part 15 §15.207(a)	Conducted Emission Limits	NA¹
Title 47 of the CFR, Part 15 §15.247(a)(1)	6dB Occupied Bandwidth	Compliant
---	99% Occupied Bandwidth	Compliant
Title 47 of the CFR, Part 15 §15.247(b)	Peak Power Spectral Density	Compliant
Title 47 of the CFR, Part 15 §15.247(e)	Peak Power Output	Compliant
Title 47 of the CFR, Part 15 §15.247(d); §15.209; §15.205	Radiated Spurious Emissions Requirements	Compliant
Title 47 of the CFR, Part 15 §15.247(d)	RF Conducted Spurious Emissions Requirements	Compliant

Table 1. Executive Summary

¹ This test is not applicable since the test sample is battery powered with no connection to AC mains.

II. Equipment Configuration

A. Overview

Eurofins MET Labs was contracted by Tractian Technologies Inc to perform testing on the STUG2, under Tractian Technologies Inc's purchase order number 1015.

This document describes the test setups, test methods, required test equipment, and the test limit criteria used to perform compliance testing of the STUG2.

The results obtained relate only to the item(s) tested.

Product Name:	Smart Trac Ultra Gen2	
Model(s) Tested:	STUG2	
Sample Number:	25864-3	
FCCID:	2BCIS-STUG2	
Equipment Specifications:	Primary Power:	36VDC
	Type of Modulations:	OQPSK
	Equipment Code:	DTS
	Peak RF Output Power:	16.73dBm
	EUT Frequency Ranges:	903 – 927MHz
	Antenna Gain ² :	2.1 dBi
Analysis:	The results obtained relate only to the item(s) tested.	
Environmental Test Conditions:	Temperature: 15-35° C	
	Relative Humidity: 30-60%	
	Barometric Pressure: 860-1060 mbar	
Evaluated by:	Bryan Taylor, Veer Patel	
Report Date(s):	12/18/2025	

Table 2. EUT Summary Table

² The antenna gain information was provided by Tractian Technologies Inc and may affect compliance.

B. References

CFR 47, Part 15, Subpart C	Federal Communication Commission, Code of Federal Regulations, Title 47, Part 15: General Rules and Regulations, Allocation, Assignment, and Use of Radio Frequencies
ANSI C63.4:2014	Methods and Measurements of Radio-Noise Emissions from Low-Voltage Electrical And Electronic Equipment in the Range of 9 kHz to 40 GHz
ISO/IEC 17025:2017	General Requirements for the Competence of Testing and Calibration Laboratories
ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024	American National Standard for Testing Unlicensed Wireless Devices

Table 3. References

C. Test Site

All testing was performed at Eurofins MET Labs, 13501 McCallen Pass, Austin, TX 78753. All equipment used in making physical determinations is accurate and bears recent traceability to the National Institute of Standards and Technology.

Radiated Emissions measurements were performed in a 10 meter semi-anechoic chamber (equivalent to an Open Area Test Site). In accordance with §2.948(a)(3), a complete site description is contained at MET Laboratories.

ISED Lab Info:

CAB Identifier: US0004
Company Number: 2043D

FCC Lab Info:

Designation Number: US1127

D. Measurement Uncertainty

Test Method	Typical Expanded Uncertainty	K	Confidence Level
Occupied Bandwidth Measurements	±4.52 Hz	2	95%
Conducted Power Measurements	±2.74 dB	2	95%
Power Spectral Density Measurements	±2.74 dB	2	95%
Conducted Spurious Emissions	±2.80 dB	2	95%
Conducted Emissions (Mains)	±2.97 dB	2	95%
Radiated Spurious Emissions (9kHz – 1GHz)	±2.95 dB	2	95%
Radiated Spurious Emissions (1GHz - 40GHz)	±3.54 dB	2	95%

Table 4. Uncertainty Calculations Summary

E. Description of Test Sample

The Smart Trac Ultra Gen2 is an internal battery powered 802.15.4 and BLE Industrial IoT sensor of vibration and temperature.

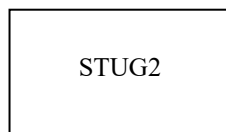


Figure 1. Block Diagram of Test Configuration

F. Equipment Configuration

The EUT was set up as outlined in Figure 1 above. Software commands were sent to the test sample to control the transmitter via the Silicon Laboratories standalone NCP commander tool.

G. Support Equipment

The Smart Trac Ultra Gen2 was tested in a stand-alone configuration. No support equipment was used during the evaluation.

H. Ports and Cabling Information

The Smart Trac Ultra Gen2 was tested in a stand-alone configuration. No cables were connected during the evaluation.

I. Mode of Operation

Software commands were sent to the test sample to control the transmitter via terminal program (CoolTerm V2.1.1)

Transmit Band	Modulation	Channel Frequencies Tested	Test Tool Power Setting ³
902 – 928MHz	OQPSK	903MHz / 915MHz / 927MHz	19dBm

Table 5. Test Channels Utilized

J. Method of Monitoring EUT Operation

A spectrum analyzer was used to confirm proper transmitter operation.

K. Modifications

a) Modifications to EUT

No modifications were made to the EUT.

b) Modifications to Test Standard

No modifications were made to the test standard.

L. Disposition of EUT

The test sample including all support equipment submitted to the Electro-Magnetic Compatibility Lab for testing was returned to Tractian Technologies Inc upon completion of testing.

³ Note, the test tool power setting does not necessarily correspond to a power in dBm or Watts.

III. Electromagnetic Compatibility Criteria for Intentional Radiators

Electromagnetic Compatibility Criteria for Intentional Radiators

§ 15.203 Antenna Requirement

Test Requirement: **§ 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.

The structure and application of the EUT were analyzed to determine compliance with Section 15.203 of the Rules. Section 15.203 states that the subject device must meet at least one of the following criteria:

- a.) Antenna must be permanently attached to the unit.
- b.) Antenna must use a unique type of connector to attach to the EUT.
- c.) Unit must be professionally installed. Installer shall be responsible for verifying that the correct antenna is employed with the unit.

Test Results: The EUT as tested is compliant the criteria of §15.203. The TX antenna is permanently attached to the unit and is not accessible by the end user.

Test Engineer(s): Bryan Taylor

Test Date(s): 09/09/2025

Electromagnetic Compatibility Criteria for Intentional Radiators

§ 15.247(a)(2) 6 dB Bandwidth

Test Requirements: § 15.247(a)(2): Systems using digital modulation techniques may operate in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands. The minimum 6dB bandwidth shall be at least 500kHz.

Test Procedure: The transmitter was on and transmitting at the highest output power. The bandwidth of the fundamental frequency was measured with the spectrum analyzer using a RBW approximately 1% of the total emission bandwidth, and the VBW > RBW. The 6 dB Bandwidth was measured and recorded. The measurements were performed on the low, mid and high channels.

Test Results The EUT was compliant with § 15.247 (a)(2).

The 6 dB Bandwidth was determined from the plots on the following pages.

Test Engineer(s): Veer Patel

Test Date(s): 8/20/2025

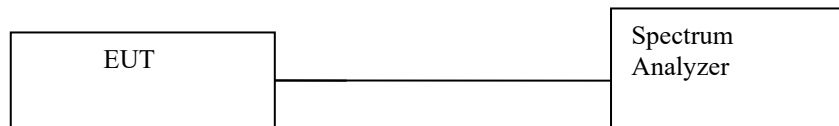


Figure 2. Block Diagram, Occupied Bandwidth Test Setup

Channel	Frequency (MHz)	99% Bandwidth (MHz)	6dB Bandwidth (MHz)	6dB Bandwidth Limit	Result
Low	903MHz	2.3444	1.7077	≥ 0.5MHz	Pass
Middle	915MHz	2.3661	1.7149	≥ 0.5MHz	Pass
High	927MHz	2.3589	1.6787	≥ 0.5MHz	Pass

Table 6. 99% and 6 dB Occupied Bandwidth, Test Results

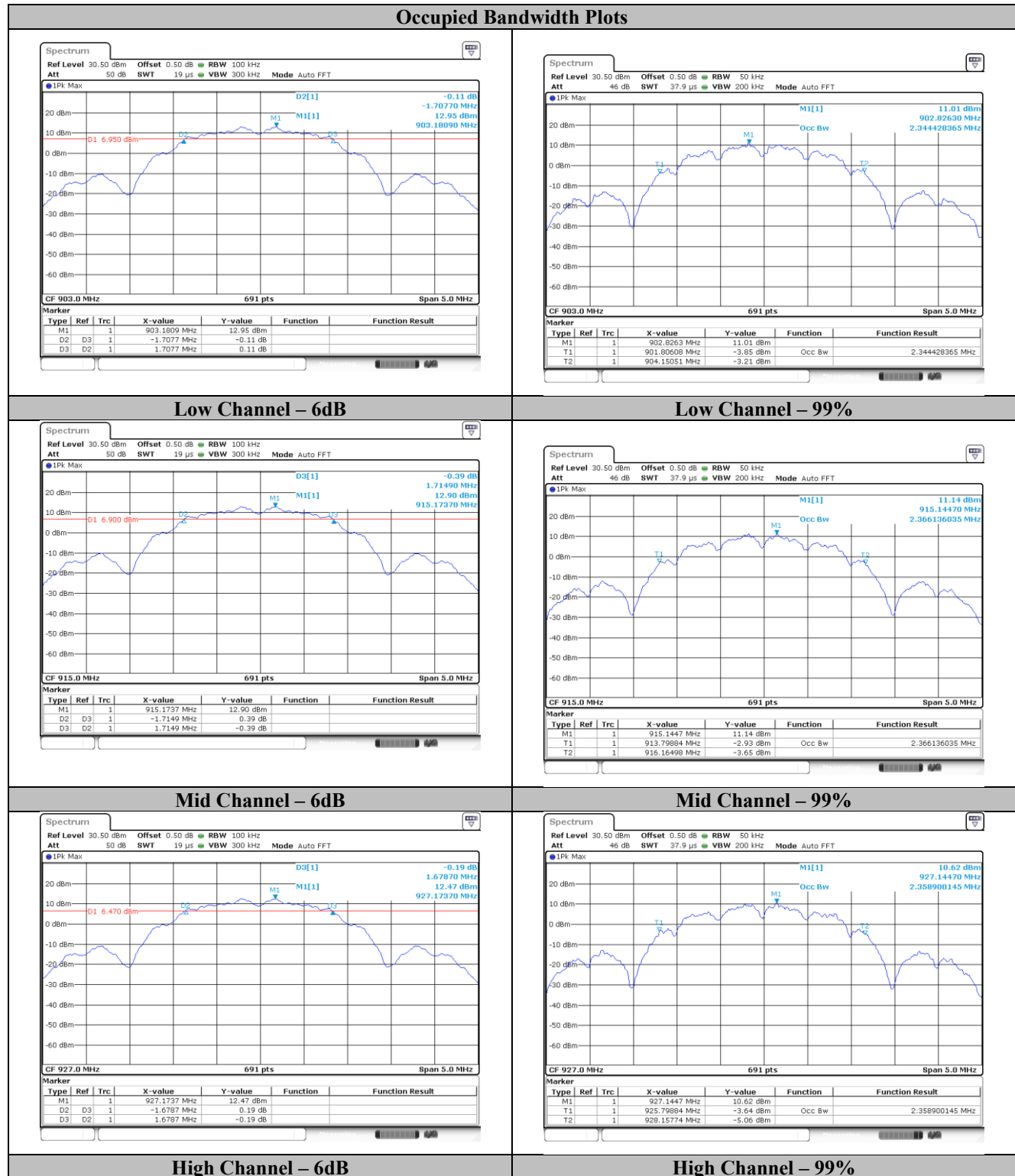


Figure 3. 6dB and 99% Bandwidth Plots

Electromagnetic Compatibility Criteria for Intentional Radiators

§ 15.247(b)(3) Peak Power Output

Test Requirements: For systems using digital modulation in the 902-928MHz, 2400-2483.5MHz, and 5725-5850Hz bands, the output power limit is 1 Watt.

Test Procedure: The transmitter was connected to a calibrated spectrum analyzer. The analyzer reference level was offset by cable loss connecting to the test sample. The peak power was measured at the low, mid and high channels of each band at the maximum power level.

Test Results: The EUT was compliant with the Peak Power Output limits of §15.247(b)(3).

Test Engineer(s): Veet Patel

Test Date(s): 09/09/2025

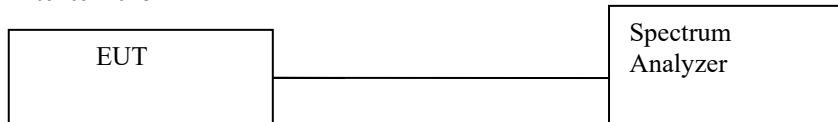


Figure 4. Peak Power Output Test Setup

Peak Power Output Test Results

Channel	Frequency (MHz)	Peak Conducted Power (dBm)	Peak Power Limit (dBm)	Result
Low	903	16.73	30	Pass
Middle	915	16.52	30	Pass
High	927	16.10	30	Pass

Table 7. Peak Power Output, Test Results

Electromagnetic Compatibility Criteria for Intentional Radiators

§ 15.247(e) Peak Power Spectral Density

Test Requirements: §15.247(e): For digitally modulated systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

Test Procedure: The transmitter was connected directly to a Spectrum Analyzer through an attenuator. The power level was set to the maximum level. The RBW was set between 3kHz and 100 kHz. The VBW was set to 3x the RBW. The spectrum analyzer was set to an auto sweep time and a peak detector was used. Measurements were carried out at the low, mid and high channels.

The analyzer settings are shown in the following table:

RBW:	3kHz	Detector:	Peak	Reference Level:	30dBm
VBW:	10kHz	Sweep Time:	Auto	Internal Attenuation:	49dB

Figure 5. Analyzer Settings During Measurement

Test Results: The EUT was compliant with the peak power spectral density limits of § 15.247 (e).

Test Engineer: Veer Patel

Test Date: 09/09/2025



Figure 6. Block Diagram, Peak Power Spectral Density Test Setup

Data Rate	Channel	Frequency (MHz)	Peak Power Spectral Density (dBm / 3kHz)	Peak Power Spectral Density Limit (dBm / 3kHz)	Result
1Mbps	Low	902.3MHz	0.84	8	Pass
	Middle	915MHz	0.50	8	Pass
	High	927.4MHz	0.19	8	Pass

Table 8. Peak Power Spectral Density, Test Results

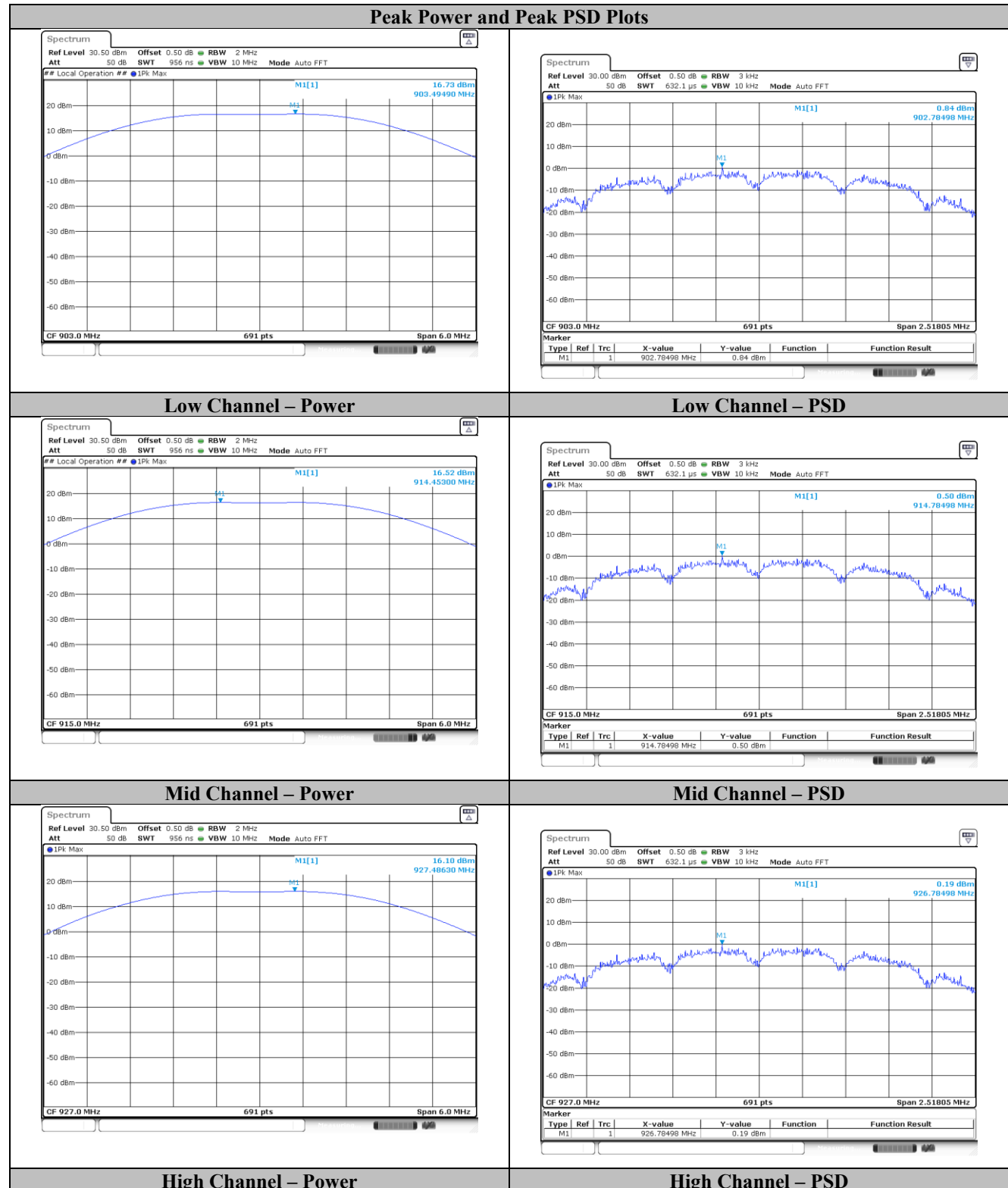


Figure 7. Peak Power and Peak PSD Plots

Electromagnetic Compatibility Criteria for Intentional Radiators

§ 15.247(d) RF Conducted Spurious Emissions Requirements

Test Requirement: **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.

Test Procedure: For intentional radiators with a digital device portion which operates below 10 GHz, the spectrum was investigated as per § 15.33(a)(1) and § 15.33(a)(4); i.e., the lowest RF signal generated or used in the device up to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

The transmitter was connected directly to a Spectrum Analyzer through an attenuator. The power level was set to the maximum level. The RBW was set to 100 kHz. The VBW was set to 3x the RBW. The spectrum analyzer was set to an auto sweep time and a peak detector was used. Measurements were carried out at the low, mid and high channels.

See following pages for detailed test results with RF Conducted Spurious Emissions.

The analyzer settings are shown in the following table:

RBW:	100kHz	Detector:	Peak	Reference Level:	30dBm
VBW:	300kHz	Sweep Time:	Auto	Internal Attenuation:	49dB

Figure 8. Analyzer Settings During Measurement

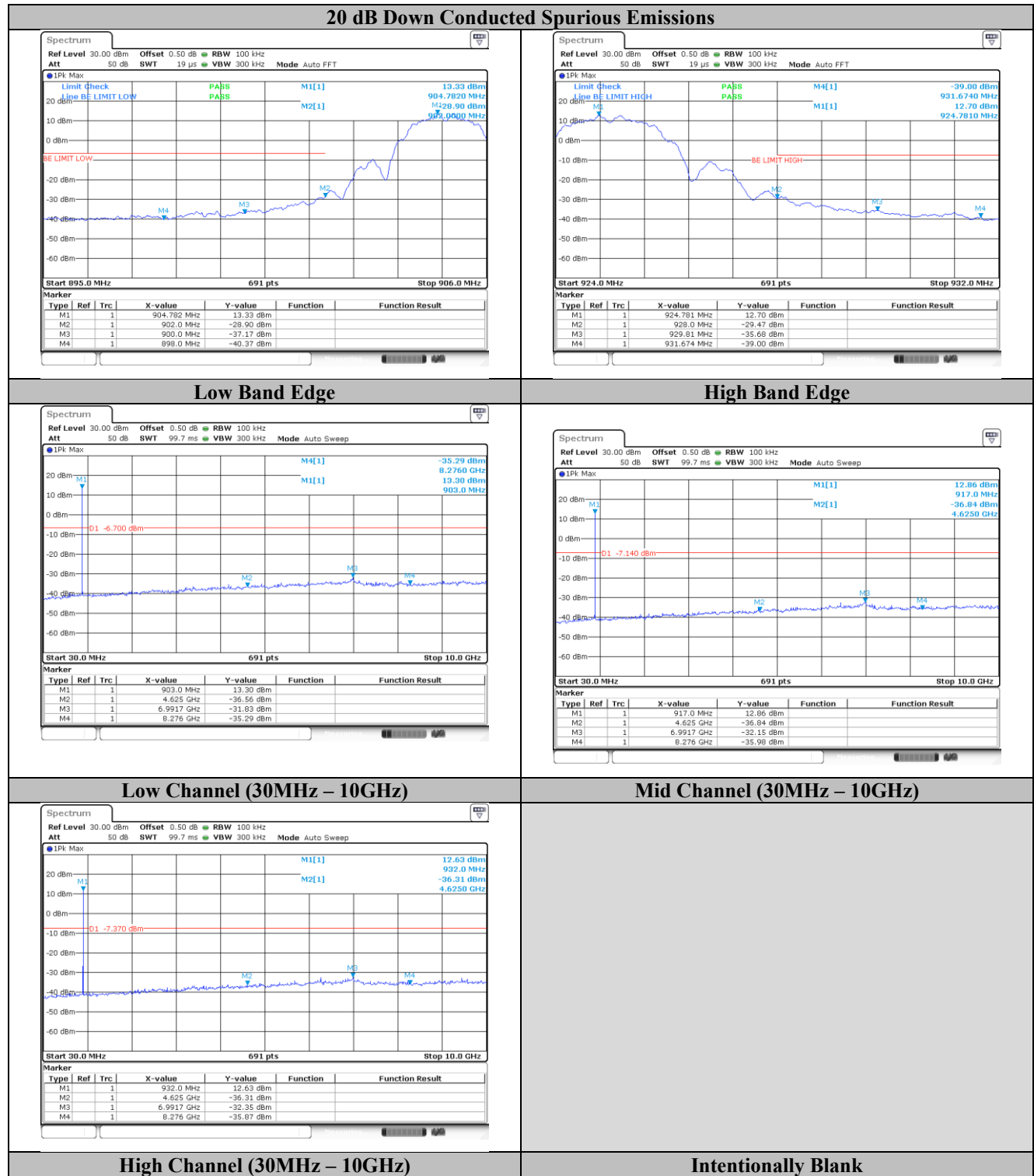
Test Results: The EUT was compliant with the Conducted Spurious Emission limits of **§15.247(d)**.

Test Engineer(s): Veer Patel

Test Date(s): 09/09/2025



Figure 9. Block Diagram, Conducted Spurious Emissions Test Setup



Electromagnetic Compatibility Criteria for Intentional Radiators

§ 15.247(d) Radiated Spurious Emissions Requirements and Band Edge

Test Requirements: §15.247(d); §15.205: Emissions outside the frequency band.

§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. 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).

§15.205(a): Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090–0.110-----	16.42–16.423	399.9–410	4.5–5.15
¹ 0.495–0.505-----	16.69475–16.69525	608–614	5.35–5.46
2.1735–2.1905-----	16.80425–16.80475	960–1240	7.25–7.75
4.125–4.128-----	25.5–25.67	1300–1427	8.025–8.5
4.17725–4.17775-----	37.5–38.25	1435–1626.5	9.0–9.2
4.20725–4.20775-----	73–74.6	1645.5–1646.5	9.3–9.5
6.215–6.218-----	74.8–75.2	1660–1710	10.6–12.7
6.26775–6.26825-----	108–121.94	1718.8–1722.2	13.25–13.4
6.31175–6.31225-----	123–138	2200–2300	14.47–14.5
8.291–8.294-----	149.9–150.05	2310–2390	15.35–16.2
8.362–8.366-----	156.52475–156.52525	2483.5–2500	17.7–21.4
8.37625–8.38675-----	156.7–156.9	2655–2900	22.01–23.12
8.41425–8.41475-----	162.0125–167.17	3260–3267	23.6–24.0
12.29–12.293-----	167.72–173.2	3332–3339	31.2–31.8
12.51975–12.52025-----	240–285	3345.8–3358 36.	43–36.5
12.57675–12.57725-----	322–335.4	3600–4400	(²)

Table 9. Restricted Bands of Operation

¹ Until February 1, 1999, this restricted band shall be 0.490 – 0.510 MHz.

² Above 38.6

Test Requirement(s): § 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 Table 10.

Frequency (MHz)	§ 15.209(a), Radiated Emission Limits (dBμV) @ 3m
30 - 88	40.00
88 - 216	43.50
216 - 960	46.00
Above 960	54.00

Table 10. Radiated Emissions Limits Calculated from FCC Part 15, § 15.209 (a)

Test Procedures: The radiated methodology referenced in ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 Section 11.12.1 was utilized in order to assess the unwanted emissions in the restricted bands.

A radiated scan was performed with the antenna of proper impedance installed. The transmitter was turned on. Measurements were performed of the low, mid and high Channels. The EUT was rotated orthogonally through all three axes if multiple mounting orientations are supported. Plots shown are corrected for both antenna correction factor and distance and compared to a 3 m limit line.

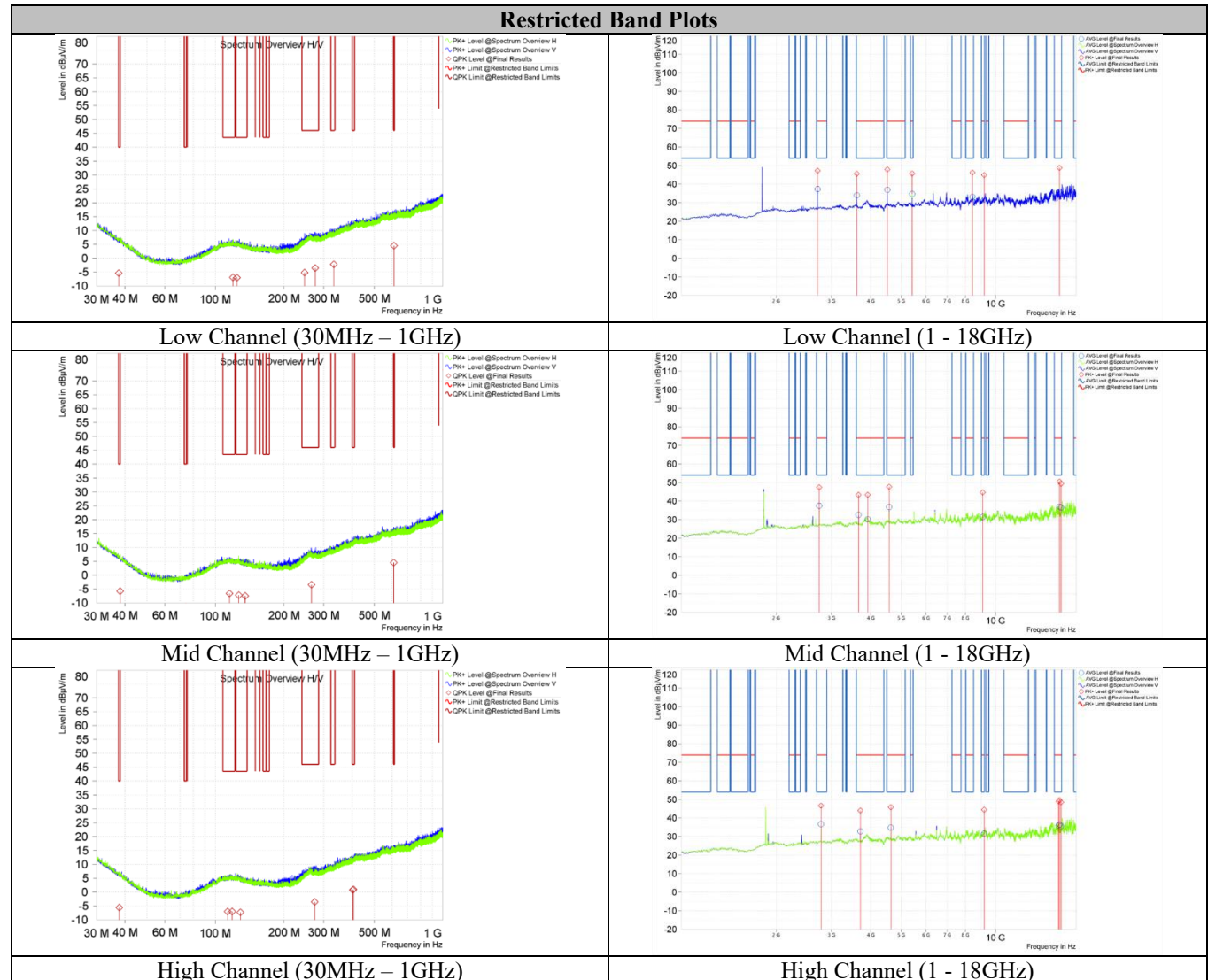
Radiated measurements below 30MHz were performed in a semi-anechoic chamber that has been correlated to an open area site.

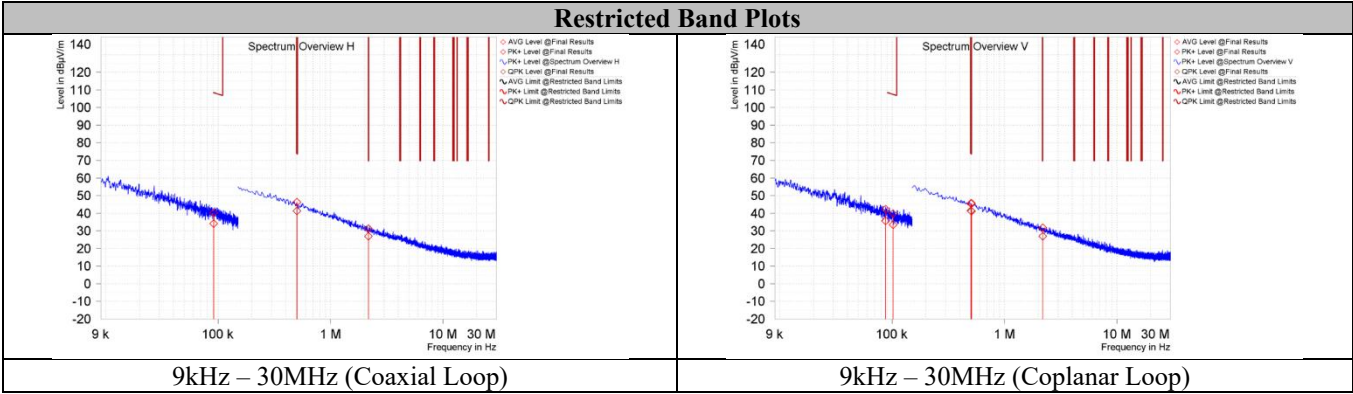
Test Software: TILE Version 7.4.2.5 (Manufactured by ETS Lindgren) and ELEKTRA Version 4.61 (Manufactured by Rohde&Schwarz) was utilized to perform these measurements.

Test Results: The EUT was compliant with the Radiated Spurious Emission limits of § 15.247(d).

Test Engineer(s): Veer Patel

Test Date(s): 09/09/2025





Frequency [MHz]	Peak Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]	Result
0.091	40.25	108.41	68.16	11.70	H	54.4	1.00	0.200	Pass
0.102	39.85	107.46	67.61	11.28	V	265.6	1.00	0.200	Pass
0.501	46.19	73.69	27.50	11.27	H	195	1.00	9.000	Pass
0.501	45.59	73.69	28.11	11.27	V	188.5	1.00	9.000	Pass
0.510	45.57	73.54	27.97	11.35	V	82.4	1.00	9.000	Pass
2.175	31.25	69.54	38.29	11.69	H	253.8	1.00	9.000	Pass

Figure 11. Worst Case Cabinet Radiation, 9kHz - 30MHz

Frequency [MHz]	QPK Level [dBμV/m]	QPK Limit [dBμV/m]	QPK Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]	Result
37.620	-5.38	40.00	45.38	-6.44	H	75.6	3.78	120.000	Pass
119.550	-6.90	43.52	50.42	-7.57	H	331.7	3.07	120.000	Pass
124.650	-6.99	43.52	50.51	-7.66	H	28	1.81	120.000	Pass
246.960	-5.19	46.02	51.21	-6.17	V	195.2	3.72	120.000	Pass
274.770	-3.58	46.02	49.60	-5.40	V	224	4.00	120.000	Pass
332.490	-2.24	46.02	48.26	-4.10	V	234.5	2.37	120.000	Pass
611.190	4.52	46.02	41.50	2.06	V	180	3.98	120.000	Pass

Figure 12. Radiated Spurious, 30MHz - 1GHz, Low

Frequency [MHz]	QPK Level [dBμV/m]	QPK Limit [dBμV/m]	QPK Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]	Result
38.160	-5.75	40.00	45.75	-6.73	H	157.6	3.43	120.000	Pass
74.280	-12.75	40.00	52.75	-13.28	V	337.6	3.96	120.000	Pass
115.350	-6.64	43.52	50.16	-7.34	V	68.6	1.00	120.000	Pass
126.900	-7.25	43.52	50.77	-7.74	H	270.1	1.38	120.000	Pass
135.210	-7.51	43.52	51.03	-7.88	V	64.4	1.64	120.000	Pass
264.660	-3.45	46.02	49.47	-4.96	V	104.2	2.40	120.000	Pass
608.610	4.46	46.02	41.56	1.94	V	315.3	1.86	120.000	Pass

Figure 13. Radiated Spurious, 30MHz - 1GHz, Mid

Frequency [MHz]	QPK Level [dBμV/m]	QPK Limit [dBμV/m]	QPK Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]	Result
37.860	-5.57	40.00	45.57	-6.57	H	233.1	1.56	120.000	Pass
113.430	-7.05	43.52	50.57	-7.68	H	152.5	3.69	120.000	Pass
118.590	-6.99	43.52	50.51	-7.58	V	237.8	2.85	120.000	Pass
129.030	-7.34	43.52	50.86	-7.75	V	302.5	2.99	120.000	Pass
273.870	-3.59	46.02	49.61	-5.39	V	47.2	3.87	120.000	Pass
401.760	0.71	46.02	45.31	-1.88	V	176.6	1.09	120.000	Pass
404.940	0.91	46.02	45.11	-1.62	V	151.5	1.70	120.000	Pass

Figure 14. Radiated Spurious, 30MHz - 1GHz, High

Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Result
2,710.500	47.25	74.00	26.75	37.30	54.00	16.70	-2.70	V	125.3	3.41	Pass
3,614.000	45.56	74.00	28.44	34.00	54.00	20.00	-2.52	V	101	2.5	Pass
4,517.500	47.91	74.00	26.09	36.95	54.00	17.05	-3.18	V	294.3	2.76	Pass
5,421.000	45.70	74.00	28.30	34.68	54.00	19.32	-4.25	H	4.7	2.9	Pass
8,428.000	46.18	74.00	27.82	33.14	54.00	20.86	-3.53	V	147.5	1.5	Pass
9,180.000	44.87	74.00	29.13	31.55	54.00	22.45	-3.59	H	305.6	1.44	Pass
15,940.000	48.77	74.00	25.23	35.93	54.00	18.07	-0.47	H	327.6	1.22	Pass

Figure 15. Radiated Spurious, 1GHz to 18GHz, Low

Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Result
2,743.500	47.38	74.00	26.62	37.42	54.00	16.58	-2.74	H	78.7	2.71	Pass
3,658.000	43.34	74.00	30.66	32.52	54.00	21.48	-3.64	V	93.7	2.5	Pass
3,913.000	43.38	74.00	30.62	30.17	54.00	23.83	-1.81	H	204.4	1.42	Pass
4,577.500	47.68	74.00	26.32	36.80	54.00	17.20	-3.82	V	243.8	1.83	Pass
9,079.500	44.68	74.00	29.32	31.36	54.00	22.64	-4.45	V	342	1.49	Pass
15,939.000	50.52	74.00	23.48	37.00	54.00	17.00	-0.45	H	238.5	2.56	Pass
16,131.000	49.37	74.00	24.63	36.45	54.00	17.55	-1.16	V	36.3	2.5	Pass

Figure 16. Radiated Spurious, 1GHz to 18GHz, Mid

Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Result
2,779.500	46.60	74.00	27.40	36.69	54.00	17.31	-2.82	H	207.8	2.92	Pass
3,710.000	44.02	74.00	29.98	32.80	54.00	21.20	-4.01	V	199.3	2.47	Pass
4,637.500	45.79	74.00	28.21	34.81	54.00	19.19	-4.27	V	236.2	1.49	Pass
9,179.000	44.44	74.00	29.56	31.56	54.00	22.44	-3.60	V	172.7	1.08	Pass
15,835.500	48.94	74.00	25.06	36.01	54.00	17.99	0.45	V	177.6	3.08	Pass
15,940.500	49.71	74.00	24.29	36.51	54.00	17.49	-0.48	V	144.9	1.5	Pass
16,129.000	48.51	74.00	25.49	35.64	54.00	18.36	-1.17	V	212.4	3.5	Pass

Figure 17. Radiated Spurious, 1GHz to 18GHz, High

IV. Test Equipment

Test Equipment

Calibrated test equipment utilized during testing was maintained in a current state of calibration per the requirements of ISO/IEC 17025:2017.

Asset #	Description	Manufacturer	Model	Last Cal Date	Cal Due Date
1A1250	Receiver	Rohde & Schwarz	ESW44	03/28/2025	03/28/2026
1A1234	FSV Signal Analyzer	Rohde & Schwarz	FSV 40	03/13/2025	03/13/2026
1A1176	Active Loop Antenna (9KHz-30MHz)	ETS-Lindgren	6502	08/22/2024	08/22/2026
1A1050	Bi-Log Antenna	Schaffner	CBL-6112D	03/05/2024	03/05/2026
1A1183	Double Ridged Waveguide Antenna	ETS Lindgren	3117	02/20/2024	02/20/2026
1A1161	Horn Antenna (18GHz – 40GHz)	ETS Lindgren	3116C	08/01/2024	08/01/2026
1A1088	Preamplifier	Rohde & Schwarz	TS-PR1	See Note	
1A1044	Generator	Com-Power	CG-520	See Note	
1A1073	Multi Device Controller	ETS	2090	See Note	
1A1074	System Controller	Panasonic	WV-CU101	See Note	
1A1080	Multi-Device	ETS	2090	See Note	
1A1180	Preamplifier	Miteq	AMF-7D-01001800-22-10P	See Note	

Table 11. Test Equipment Table

Note: Functionally tested equipment is verified using calibrated instrumentation at the time of testing.

End of Report