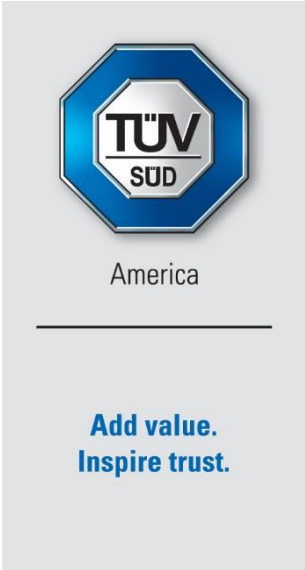


Report on the Testing of the
Synapse Wireless
SM220

In accordance with:
FCC 47 CFR part 15.247
ISED RSS-247 Issue 3, August 2023

Prepared for: Synapse Wireless
 351 SW Electronics Blvd
 Huntsville 35824 USA



COMMERCIAL-IN-CONFIDENCE
Document Number: AT72199033.1P0

SIGNATURE			
NAME	JOB TITLE	RESPONSIBLE FOR	ISSUE DATE
Thierry Jean-Charles	Senior Engineer TUV SUD America Inc.	Authorized Signatory	5/24/2024
Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD America, Inc. document control rules.			
FCC Accreditation Designation Number US1233 FCC Test Site Registration Number 967699 Innovation, Science, and Economic Development Canada Lab Code 23932			
EXECUTIVE SUMMARY			
A sample of this product was tested and found to be compliant with the standards listed above.			
 A2LA Cert. No. 2955.09		DISCLAIMER AND COPYRIGHT This non-binding report has been prepared by TÜV SÜD America with all reasonable skill and care. The document is confidential to the potential Client and TÜV SÜD America. No part of this document may be reproduced without the prior written approval of TÜV SÜD America. © TÜV SÜD.	
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1 Report Summary

1.1 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

Table 1.1-1 – Modification Record

Issue	Description of Change	Date of Issue
0	First Issue	05/24/2024

1.2 Introduction

The purpose of this report is to demonstrate compliance with Part 15 Subpart C of the FCC's Code of Federal Regulations Section 15.247 and Innovation Science and Economic Development Canada's Radio Standards Specification RSS-247 for the tests documented herein to support a Class II Permissive Change.

The purpose of this Class II Permissive Change is to add a new antenna to their pre-approved Zigbee SM220 module holding FCC ID: U9O-SM220 / IC ID: 708A4A-SM220

Applicant	Jason Gestler
Manufacturer	Synapse Wireless
Applicant's Email Address	jason.gastler@synapsewireless.com
Model Number(s)	SM220
Serial Number(s)	NA
Module FCC ID	U9O-SM220
Module ISED Certification Number	7084A-SM220
Hardware Version(s)	M-2
Software Version(s)	2.8.2
Number of Samples Tested	1
Test Specification/Issue/Date	US Code of Federal Regulation (CFR): Title 47, Part 15, Subpart C: Radio Frequency Devices, Intentional Radiators, 2024 ISED Canada Radio Standards Specification: RSS-247 – Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and License-Exempt Local Area Network (LE-LAN) Devices, Issue 3, August 2023.
Order Number	72199033
Date of Receipt of EUT	04/09/2024
Start of Test	04/11/2024



Finish of Test	04/15/2024
Related Document(s)	<p>ANSI C63.10-2013: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Device.</p> <p>FCC OET KDB 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, April 2, 2019</p> <p>US Code of Federal Regulations (CFR): Title 47, Part 2, Subpart J: Equipment Authorization Procedures, 2024.</p> <p>ISED Canada Radio Standards Specification: RSS-GEN – General Requirements for Compliance of Radio Apparatus, Issue 5, Amendment 1 (March 2019), Amendment 2 (February 2021)</p>



1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with FCC Part 15.247 and ISED Canada's RSS-247 is shown below.

Table 1.3-1: Test Result Summary

Test Parameter	Test Plan (Yes/No)	Test Result	FCC 47 CFR Rule Part	ISED Canada's RSS	Test Report Page No
Antenna Requirement	Yes	Pass	15.203, 15.204	-----	10
6 dB Bandwidth	No	Not Tested	15.247(a)(2)	RSS-247 5.2(a)	-----
99% Bandwidth	No	Not Tested	-----	RSS-GEN 6.7	-----
Avg Output Power	No	Not Tested	15.247(b)(3)	RSS-247 5.4(d)	-----
Band-Edge Compliance of RF Conducted Emissions	No	Not Tested	15.247(d)	RSS-247 5.5	-----
RF Conducted Spurious Emissions	No	Not Tested	15.247(d)	RSS-247 5.5	-----
Radiated Spurious Emissions into Restricted Frequency Bands	Yes	Pass	15.205, 15.209	RSS-GEN 8.9, 8.10	14
Power Spectral Density	No	Not Tested	15.247(e)	RSS-247 5.2(b)	-----
Power Line Conducted Emissions	Yes	Pass	15.207	RSS-GEN 8.8	11
Duty Cycle	No	-----			-----



1.4 Product Information

EUT is a 802.15.4 Transceiver Module with SNAP OS.

1.4.1 Technical Description

Table 1.4.1-1 – Wireless Technical Information - Zigbee radio

Detail	Description
Module FCC ID	U90-SM220
Module ISSED ID	7084A-SM220
Module Model Name / Number	SM220
Frequency Range	2405 – 2475 MHz
Number of Channels	15
Modulation Format	O-QPSK
Channel Separation	5 MHz
Data Rate	2 Mbps
*Antenna Type / Description:	Low Profile Antenna: Data Alliance AL2W1G1 / 3dBi

“*” – The SM220 module was certified with various types of antennas, details of which are available in the original filing report. This is a new additional antenna adding to the SM220 Zigbee module. Antenna information declared by the customer.

A full description and detailed product specification details are available from the manufacturer.



Figure 1.4.1-1 - Front View of the EUT

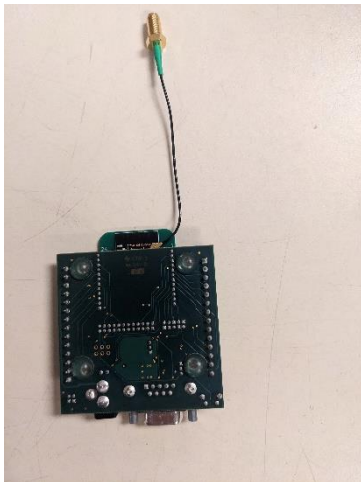


Figure 1.4.1-2 – Rear View of the EUT

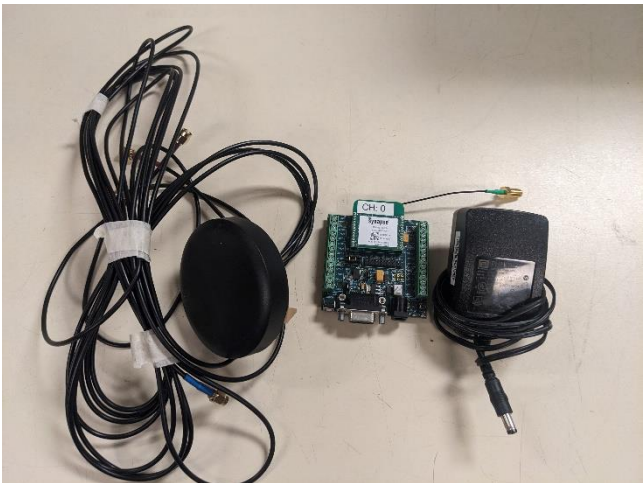


Figure 1.4.1-3 – EUT with Antenna and Power Supply

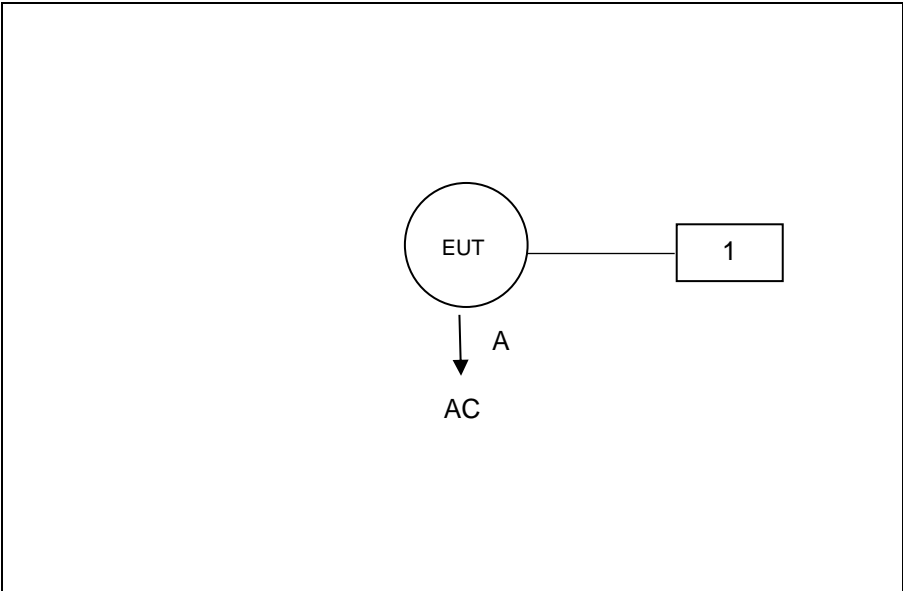


Figure 1.4.1-3 – Test Setup Block Diagram

Table 1.4.1-2 – Cable Descriptions

Item	Cable/Port	Description
A	Power cable	AC Power Adapter cable - PHIHONG

Table 1.4.1-3 – Support Equipment Descriptions

Item	Make/Model	Description
1	Low Profile Antenna: Data Alliance AL2W1G1	External Antenna



1.4.2 Modes of Operation

The purpose of this evaluation is to ensure the compliance of the pre-approved module by adding a new external antenna.

This test report documents the compliance of Zigbee radio module on low, mid, and high channels.

1.4.3 Monitoring of Performance

For radiated emissions, the EUT was evaluated in an orientation of typical use. See test setup photos for more information. The EUT was programmed to generate a continuously modulated signal on each channel evaluated.

Test case	Tested Frequency (MHz)	Module or module/host combination
Radiated spurious emissions	2405, 2440, 2475	Module

Power setting during test: Similar to the pre-approved Module.



1.5 Deviations from the Standard

No deviations from the applicable test standard were made during testing.

1.6 EUT Modification Record

The table below details modifications made to the EUT during the test program. The modifications incorporated during each test are recorded on the appropriate test pages.

Modification State	Description of Modification still fitted to EUT	Modification Fitted By	Date Modification Fitted
0	Initial State		

The equipment was tested as provided without any modifications.

1.7 Test Location

TÜV SÜD conducted the following tests at our Alpharetta, GA test laboratory.

Test Name	Name of Engineer(s)	Accreditation
Antenna Requirement	Divya Adusumilli	A2LA
Power Line Conducted Emissions	Divya Adusumilli	A2LA
Radiated Spurious Emissions into Restricted Frequency Bands	Divya Adusumilli	A2LA

Office address:
TÜV SÜD America
5945 Cabot Parkway, Suite 100
Alpharetta, GA 30005, USA



2 Test Details

2.1 Antenna Requirement

2.1.1 Specification Reference

FCC Section: 15.203, 15.204

2.1.2 Equipment Under Test and Modification State

As shown in §1.4 with modification state "0", as noted in §1.6.

2.1.3 Date of Test

04/11/2024

2.1.4 Test Method

N/A

2.1.5 Environmental Conditions

N/A

2.1.6 Test Results

The EUT utilizes a Low profile antenna: Data alliance AL2W1G1 with the antenna gain 3 dBi. The antenna is marketed with the product using RSMA connectors which connect to the PCB module via a U.FL. to RSMA cable adapter. The EUT uses unique connectors and therefore meets the requirements of FCC section 15.203.



2.2 Power Line Conducted Emissions

2.2.1 Specification Reference

FCC Section: 15.207
ISED Canada: RSS-Gen 8.8

2.2.2 Equipment Under Test and Modification State

As shown in §1.4 with modification state "0", as noted in §1.6.

2.2.3 Date of Test

04/15/2024

2.2.4 Test Method

ANSI C63.10 section 6 was the guiding documents for this evaluation. Conducted emissions were performed from 150kHz to 30MHz with the spectrum analyzer's resolution bandwidth set to 9kHz and the video bandwidth set to 30kHz. The calculation for the conducted emissions is as follows:

Corrected Reading = Analyzer Reading + LISN Loss + Cable Loss
Margin = Corrected Reading - Applicable Limit

2.2.5 Environmental Conditions

The EUT was evaluated within the temperature, humidity and pressure range of the EUT as specified by the standard. The laboratory shall have an ambient temperature range of 15°C to 35°C, relative humidity range of 30% to 60% and atmospheric pressure range of 86 kPa to 106 kPa.

Ambient Temperature	22.3 °C
Relative Humidity	53.8 %
Atmospheric Pressure	972.2 mbar



2.2.6 Test Results

Figure 2.2.6-1 - Graphical Results - AC Mains Composite Line Plot

TUV SUD America

Conducted RF Emissions, 150 kHz to 30 MHz

Line Under Test Number 1 Results

EUT Name - 72199033 - Synapse

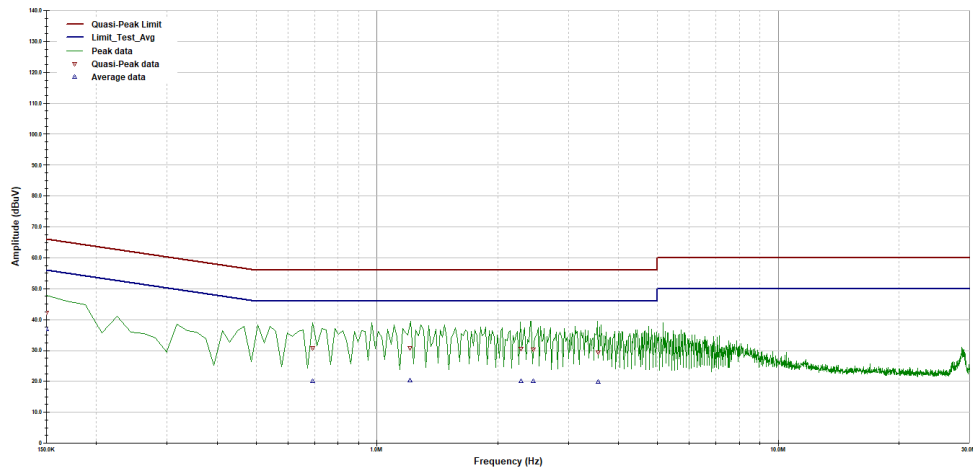
Model Number - Zigbee radio module-SM220

Part Number - N/A

Serial Number - N/A

Voltage - FCC/IC Class B; 120Vac/60Hz

Operating Mode - Zigbee-LCH radio On



Operator: Divya

AC Mains Class B.ttl

Last Data Update 01:42:55 PM, Monday, April 15, 2024

Temperature = 23C
Relative Humidity = 42%

RF Bandwidth: 9kHz
VBW if Analyzer: 30kHz

Line 1 (AVG)

Frequency (MHz)	Avg Limit	Avg Level Corr	Avg Level	Corr Fact.	Avg Margin	Result
0.15	56	36.8	27.1	9.682	-19.2	PASS
0.69	46	20	10.3	9.662	-26	PASS
1.21	46	20.3	10.6	9.693	-25.7	PASS
2.29	46	20	10.2	9.782	-26	PASS
2.45	46	20.1	10.3	9.788	-25.9	PASS
3.56	46	19.8	10	9.78	-26.2	PASS

Line 1 (QP)

Frequency (MHz)	QP Limit	QP Level Corr	QP Level	Corr Fact.	QP Margin	Result
0.15	66	42.2	32.5	9.682	-23.8	PASS
0.69	56	30.9	21.2	9.662	-25.1	PASS
1.21	56	30.8	21.1	9.693	-25.2	PASS
2.29	56	30.6	20.8	9.782	-25.4	PASS
2.45	56	30.4	20.6	9.788	-25.6	PASS
3.56	56	29.5	19.7	9.78	-26.5	PASS



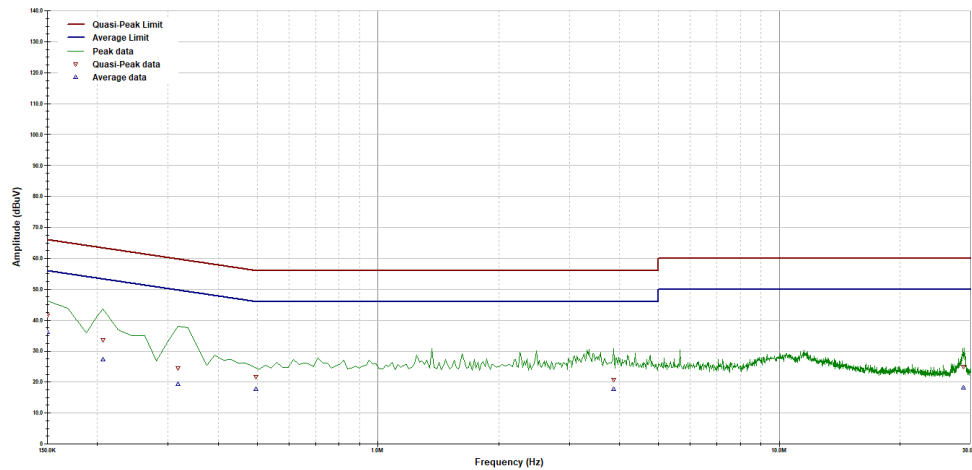
Figure 2.2.6-2 - Graphical Results - AC Mains Composite Neutral Plot

TUV SUD America

Conducted RF Emissions, 150 kHz to 30 MHz

Line Under Test Number 2 Results

EUT Name - 72199033 - Synapse
 Model Number - Zigbee radio module-SM220
 Part Number - N/A
 Serial Number - N/A
 Voltage - FCC/IC Class B; 120Vac/60Hz
 Operating Mode - Zigbee LCH radio On



Operator: Divya

AC Mains Class B.til

Last Data Update 01:52:39 PM, Monday, April 15, 2024

Temperature = 23C
 Relative Humidity = 42%
 RF Bandwidth: 9kHz
 VBW if Analyzer: 30kHz

Neutral (AVG)

Frequency (MHz)	Avg Limit	Avg Level Corr	Avg Level	Corr Fact.	Avg Margin	Result
0.15	56	36.1	26.4	9.675	-19.9	PASS
0.21	54.4	27.3	17.6	9.669	-27.1	PASS
0.32	51.2	19.3	9.7	9.657	-31.9	PASS
0.5	46.1	17.8	8.1	9.63	-28.3	PASS
3.86	46	17.8	8	9.8	-28.2	PASS
28.78	50	18.2	8	10.193	-31.8	PASS

Neutral (QP)

Frequency (MHz)	QP Limit	QP Level Corr	QP Level	Corr Fact.	QP Margin	Result
0.15	66	41.4	31.8	9.675	-24.6	PASS
0.21	64.4	33.6	23.9	9.669	-30.8	PASS
0.32	61.2	24.4	14.8	9.657	-36.8	PASS
0.5	56.1	21.6	11.9	9.63	-34.5	PASS
3.86	56	20.8	11	9.8	-35.2	PASS
28.78	60	24.9	14.7	10.193	-35.1	PASS



2.3 Radiated Spurious Emissions into Restricted Frequency Bands

2.3.1 Specification Reference

FCC Sections: 15.205, 15.209.
ISED Canada RSS – Gen 8.9/8.10

2.3.2 Equipment Under Test and Modification State

As shown in §1.4 with modification state “0”, as noted in §1.6.

2.3.3 Date of Test

04/11/2024 – 04/15/2024

2.3.4 Test Method

Radiated emissions tests were made over the frequency range of 9 kHz to 26 GHz, 10 times the highest fundamental frequency of 2.4 GHz radio. Each emission found to be in a restricted band as defined by section 15.205, including any emission at the operational band-edge, was compared to the radiated emission limits as defined in Section 15.209.

The EUT was rotated through 360° and the receive antenna height was varied from 1m to 4m so that the maximum radiated emissions level would be detected. For frequencies below 150 kHz, quasi-peak measurements were made using a resolution bandwidth RBW of 300 Hz and a video bandwidth VBW of 1 kHz and frequencies between 150 kHz and 30MHz, quasi-peak measurements were made using a resolution bandwidth RBW of 10 kHz and a video bandwidth VBW of 30 kHz. For frequencies between 30 MHz and 1000 MHz, quasi-peak measurements were made using a resolution bandwidth RBW of 100 kHz and a video bandwidth VBW of 300 kHz. For frequencies above 1000 MHz, peak and average measurements were made with RBW of 1 MHz and VBW of 3 MHz

2.3.5 Environmental Conditions

The EUT was evaluated within the temperature, humidity and pressure range of the EUT as specified by the standard. The laboratory shall have an ambient temperature range of 15°C to 35°C, relative humidity range of 30% to 60% and atmospheric pressure range of 86 kPa to 106 kPa.

Ambient Temperature	22.3 °C
Relative Humidity	53.8 %
Atmospheric Pressure	972.2 mbar



2.3.6 Test Results

Test Summary: EUT was set to transmit mode.

Test Results: Pass

See data below for detailed results.

Table 2.3.6-1: Radiated Spurious Emissions Tabulated Data

Frequency	Peak Value	QP/Avg Value	Peak Limit	QP/Avg Limit	Peak Margin	QP/Avg Margin	Antenna Polarity	Peak Limit Results	QP/Avg Limit Results
MHz	dBμV/m	dBμV/m	dBμV/m	dBμV/m	dB	dB	H/V	Pass/Fail	Pass/Fail
Low Channel – 2405 MHz									
2390.05	41.065	31.891	74	54	32.94	22.11	H	PASS	PASS
2390.05	41.052	32.018	74	54	32.95	21.98	V	PASS	PASS
4811.025	38.778	29.137	74	54	35.22	24.86	H	PASS	PASS
9622.1	48.808	39.753	74	54	25.19	14.25	H	PASS	PASS
4811.025	38.326	28.373	74	54	35.67	25.63	V	PASS	PASS
9622.1	50.137	41.566	74	54	23.86	12.43	V	PASS	PASS
12027.45	40.309	31.251	74	54	33.69	22.75	H	PASS	PASS
14433.08	42.069	33.161	74	54	31.93	20.84	H	PASS	PASS
12025.25	30.341	16.128	74	54	43.66	37.87	V	PASS	PASS
14430.13	34.319	22.594	74	54	39.68	31.41	V	PASS	PASS
19240.08	34.965	21.201	74	54	39.03	32.8	H	PASS	PASS
19240.23	34.76	21.197	74	54	39.24	32.8	V	PASS	PASS
Mid Channel – 2440 MHz									
4881.025	39.444	30.56	74	54	34.56	23.44	H	PASS	PASS
7321.525	37.061	23.719	74	54	36.94	30.28	H	PASS	PASS
9762.1	43.689	33.776	74	54	30.31	20.22	H	PASS	PASS
4879.025	41.618	33.356	74	54	32.38	20.64	V	PASS	PASS
7318.725	39.651	29.255	74	54	34.35	24.75	V	PASS	PASS
9762.1	46.402	37.385	74	54	27.6	16.61	V	PASS	PASS
12202.53	42.213	33.623	74	54	31.79	20.38	H	PASS	PASS
14631.1	33.326	19.202	74	54	40.67	34.8	H	PASS	PASS
12199.78	30.549	16.335	74	54	43.45	37.67	V	PASS	PASS
17079.85	38.036	22.929	74	54	35.96	31.07	V	PASS	PASS
19520.15	35.277	21.434	74	54	38.72	32.57	H	PASS	PASS
19520.18	34.674	21.432	74	54	39.33	32.57	V	PASS	PASS
High Channel – 2475 MHz									
2483.25	48.59	39.682	74	54	25.41	14.32	H	PASS	PASS



2483.25	51.467	42.403	74	54	22.53	11.6	V	PASS	PASS
4949.025	36.409	25.193	74	54	37.59	28.81	H	PASS	PASS
7423.475	37.42	24.943	74	54	36.58	29.06	H	PASS	PASS
9898.05	42.835	31.498	74	54	31.17	22.5	H	PASS	PASS
4951.025	39.504	30.536	74	54	34.5	23.46	V	PASS	PASS
7423.825	40.376	29.952	74	54	33.62	24.05	V	PASS	PASS
9898.05	44.278	34.728	74	54	29.72	19.27	V	PASS	PASS
12377.35	33.753	21.811	74	54	40.25	32.19	H	PASS	PASS
14847.08	33.629	19.892	74	54	40.37	34.11	H	PASS	PASS
12372.55	37.513	27.342	74	54	36.49	26.66	V	PASS	PASS
14850.08	33.571	19.898	74	54	40.43	34.1	V	PASS	PASS
19799.75	36.292	21.528	74	54	37.71	32.47	H	PASS	PASS
19804.08	37.75	23.499	74	54	36.25	30.5	V	PASS	PASS

Note: 1. A duty cycle correction factor of 14.1% was applied to the average measurements.
 2. Emissions that fall under restricted frequencies were only evaluated.

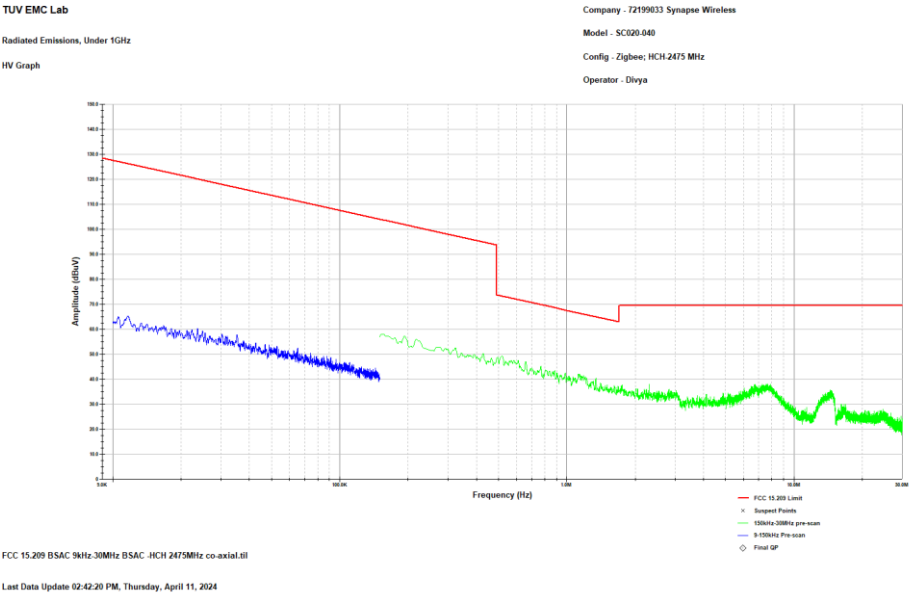


Figure 1: Reference Plot for Radiated Spurious Emissions – 9 kHz – 30 MHz – 2405 MHz – Co-axial
Note: Emissions above the noise floor are ambient not associated with the EUT.

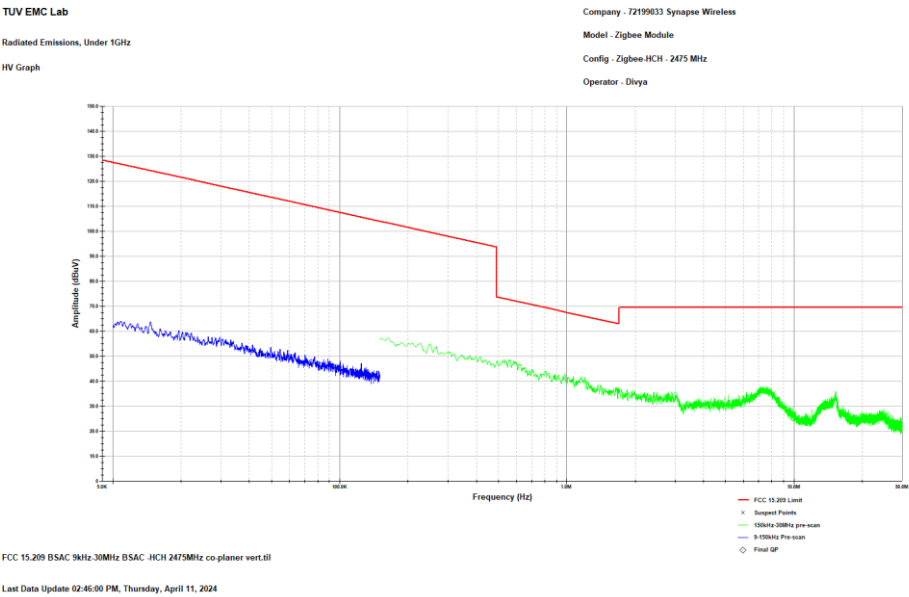


Figure 2: Radiated Spurious Emissions– 9 kHz – 30MHz –2405 MHz – Co-planar Vertical
Note: Emissions above the noise floor are ambient not associated with the EUT.

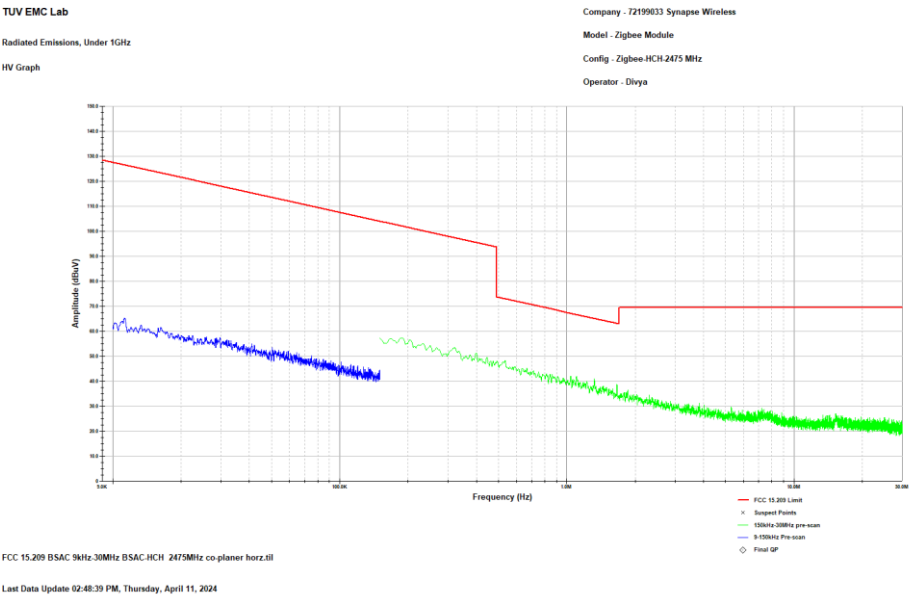


Figure 3: Radiated Spurious Emissions– 9 kHz – 30MHz – 2405 MHz- Co-planar Horizontal
Note: Emissions above the noise floor are ambient not associated with the EUT.

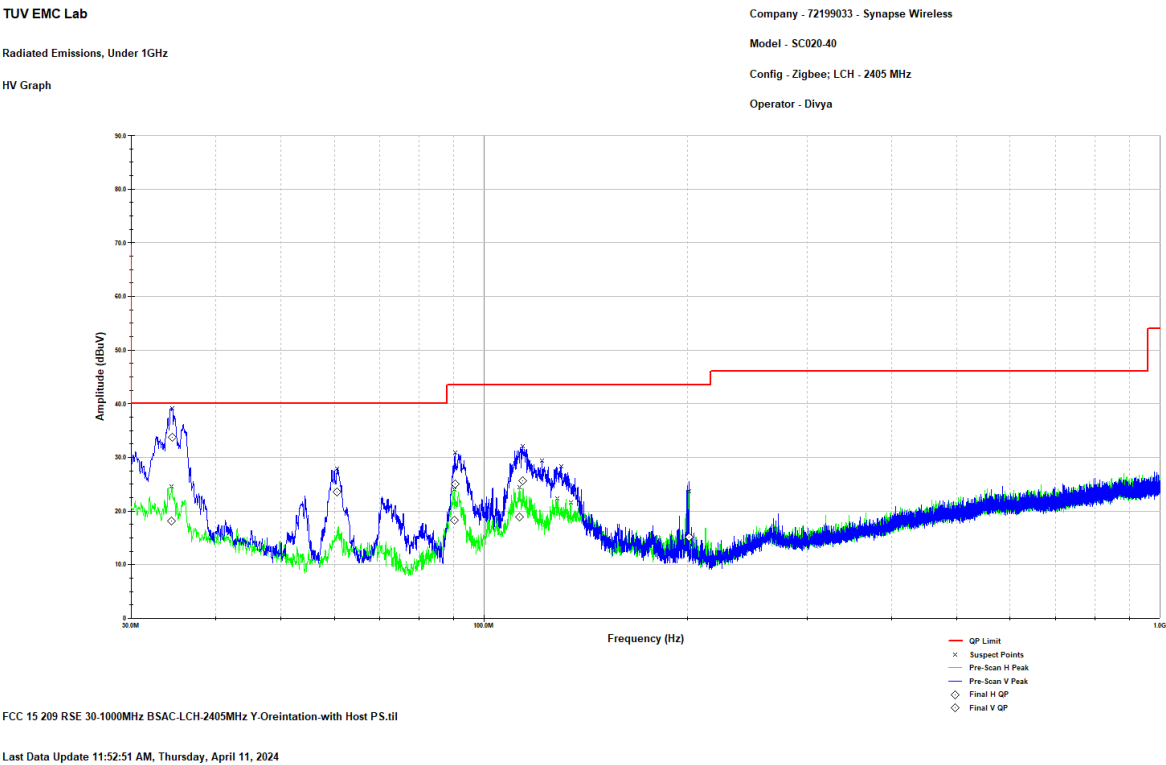


Figure 4: Reference plot for Radiated Spurious Emissions – 30 MHz – 1 GHz– H/V polarity – 2405 MHz

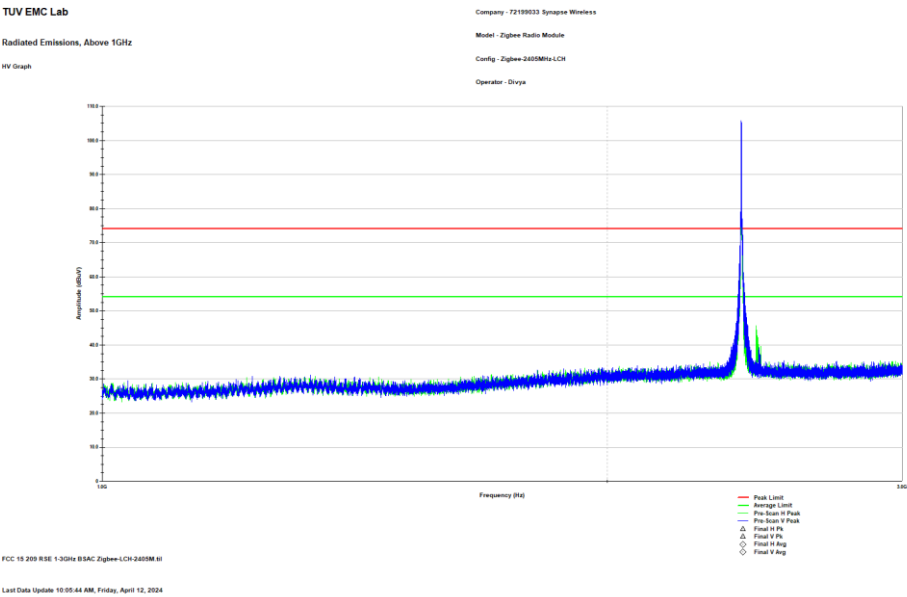


Figure 5: Reference Plot for Radiated Spurious Emissions – 1 – 3 GHz –H/V polarity – 2405 MHz
Note:Emission above the limit line is the Fundamental Frequency of Zigbee radio.

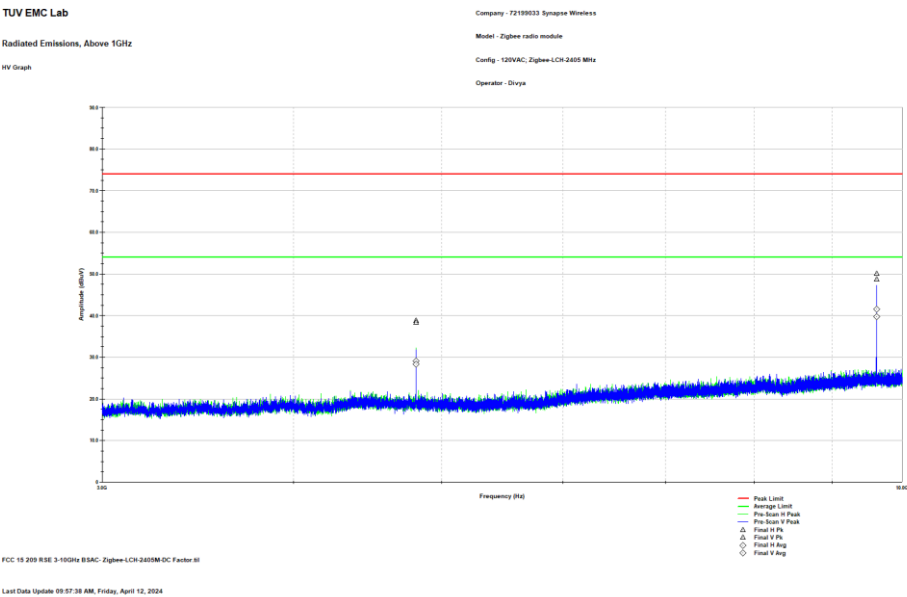


Figure 6: Reference Plot for Radiated Spurious Emissions – 3 – 10 GHz –H/V polarity – 2405 MHz

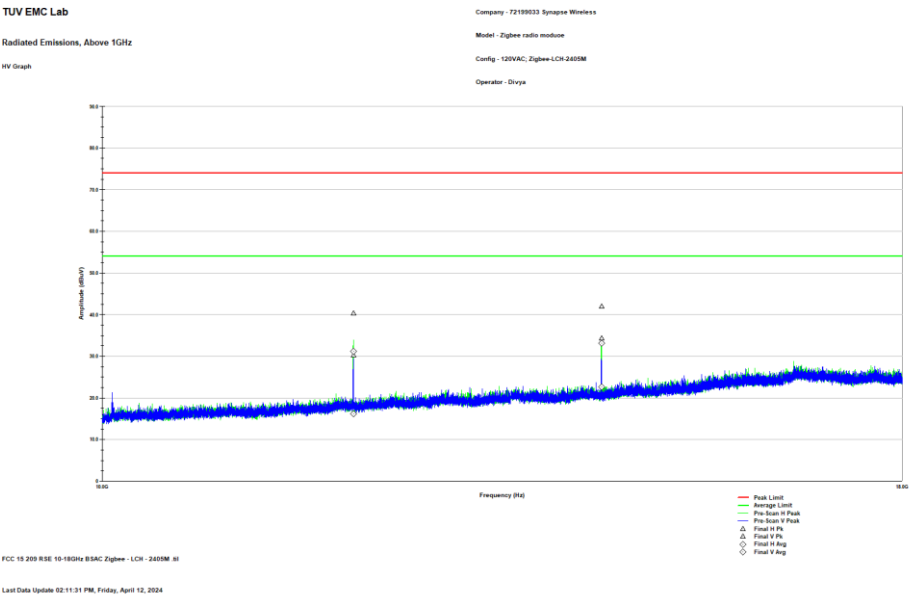


Figure 7: Refernece plot for Radiated Spurious Emissions – 10 – 18 GHz– H/V polarity – 2405 MHz

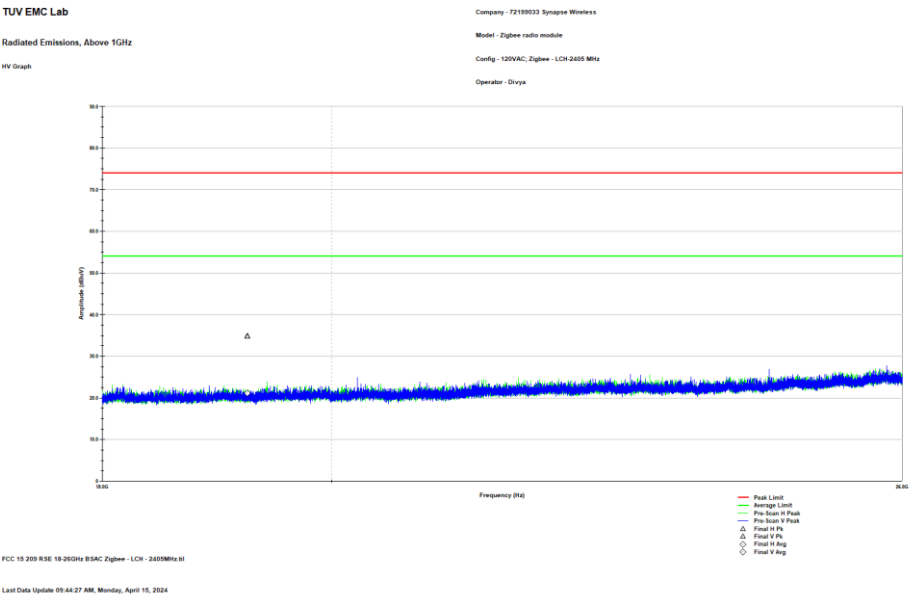


Figure 8: Reference Plot for Radiated Spurious Emissions – 18 – 26 GHz –H/V polarity – 2405 MHz



2.4 Test Equipment Used

Table 2.4-1 –Equipment List

Asset ID	Manufacturer	Model	Equipment Type	Serial Number	Last Calibration Date	Calibration Due Date
628	EMCO	6502	Active Loop Antenna 10kHz-30MHz	9407-2877	06/20/2023	06/20/2024
853	Teseq	CBL6112D	BiLog Antenna	51616	11/01/2022	11/01/2024
884	ETS Lindgren (EMCO)	3117	DOUBLE-RIDGED GUIDE ANTENNA	240106	05/16/2023	05/16/2025
889	Com Power	PAM 103	Pre-amplifier	18020215	10/02/2023	10/02/2024
338	Hewlett Packard	8449B	High Frequency Pre-Amp	3008A01111	6/22/2023	6/22/2025
882	Rohde & Schwarz	ESW44	ESW44 EMI TEST RECEIVER	101961	06/21/2023	06/21/2024
22	Teledyne Storm Microwave	90-195-456	BSAC Cable	N/A	10/02/2023	10/02/2024
20	Teledyne Storm Microwave	R-90-195-036	BSAC Cable	N/A	07/13/2023	07/13/2024
21	Teledyne Storm Microwave	R-90-195-072	BSAC Cable	N/A	07/13/2023	07/13/2024
334	Rohde & Schwarz	3160-09	HF 18 -26.5 GHz antenna	49404	04/25/2023	04/25/2024
335	Suhner	SF-102A	Cable (40GHZ)	882/2A	06/22/2023	06/22/2024
345	Suhner Sucoflex	102A	Cable 42(GHZ)	1077/2A	06/22/2023	06/22/2024
3010	Rohde & Schwarz	ENV216	Two-Line V-Network	3010	6/21/2023	6/21/2024
871	ACS	n/a	Conducted EMI Cable	871	3/24/2023	3/24/2024
872	HP	E7402A	EMI Receiver	US40240258	6/22/2023	6/22/2024
144	Omega	RH411	Temp / Humidity Meter	H0103373	02/03/2023	02/03/2025

N/A – Not Applicable

3 Diagram of Test Set-ups

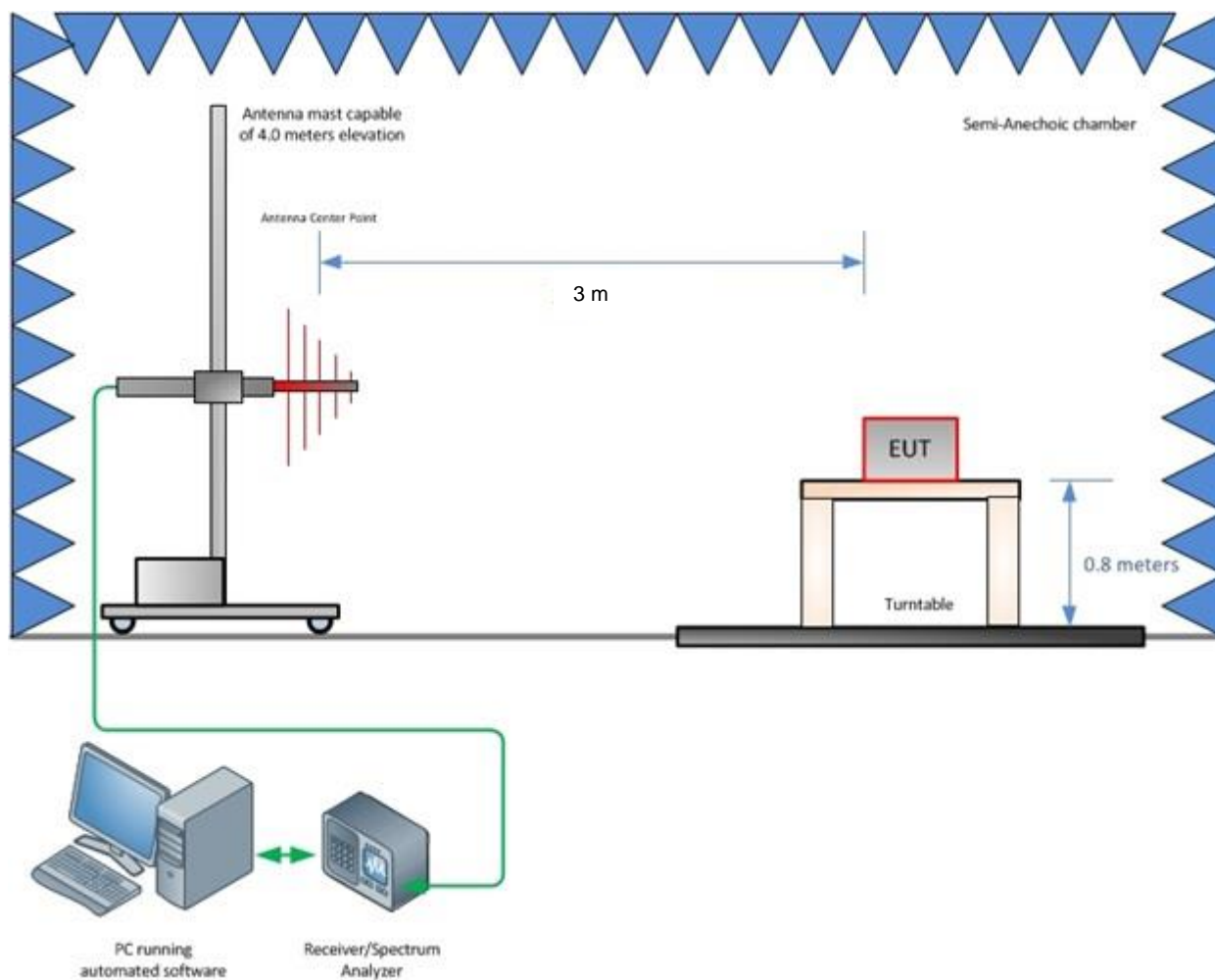


Figure 3-1 – Radiated Emissions Test Setup up to 1 GHz

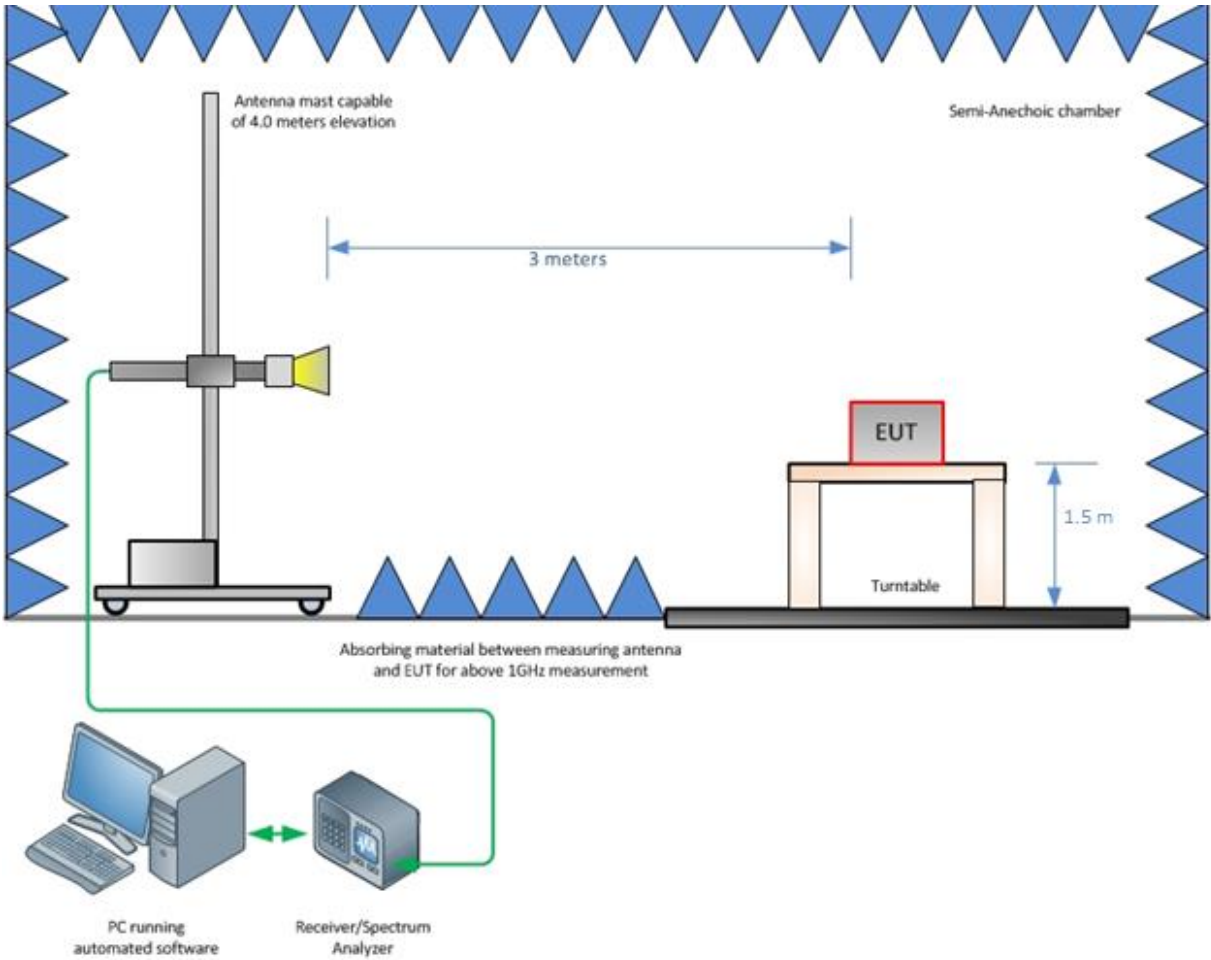


Figure 3-2 – Radiated Emissions Test Setup above 1 GHz



4 Accreditation, Disclaimers and Copyright

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STATEMENT OF MEASUREMENT UNCERTAINTY – Emissions

The expanded laboratory measurement uncertainty figures (U_{Lab}) provided below correspond to an expansion factor (coverage factor) $k = 1.96$ which provide confidence levels of 95%.

Table 4-1: Estimation of Measurement Uncertainty

Parameter	U_{lab}
Radiated Emissions ≤ 1 GHz	± 5.814 dB
Radiated Emissions > 1 GHz	± 4.318 dB
AC Power Line Conducted Emissions	± 3.360 dB

TEST EQUIPMENT

All measurement instrumentation is traceable to the National Institute of Standards and Technology and is calibrated to meet test method standard requirements and/or manufacturer's specifications.



END REPORT