



RF MEASUREMENT REPORT

FCC ID: 2BAXN-MR0005

Applicant: Willand (Beijing) Technology Co., LTD.

Product: Segway Navimow X3 Series

Model No.: X315N, X330N, X350N, X390N

Brand Name: Segway Navimow

FCC Classification: Digital Transmission System (DTS)

FCC Rule Part(s): Part 15 Subpart C (Section 15.247)

Result: Complies

Received Date: 2024-11-04

Test Date: 2024-11-26 ~ 2024-12-29

Reviewed By:

Vincent Yu

Approved By:

Robin Wu



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2411RSU003-U3	V01	Initial Report	2025-01-10	Valid

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1. General Information

1.1. Applicant

Willand (Beijing) Technology Co., LTD.

Room 203, A1 Bldg. Zhongguancun Dongsheng Technology Park (Northern Territory), No. 66, Xixiaokou Rd, Haidian Dist., Beijing, China.

1.2. Manufacturer

Willand (Beijing) Technology Co., LTD.

Room 203, A1 Bldg. Zhongguancun Dongsheng Technology Park (Northern Territory), No. 66, Xixiaokou Rd, Haidian Dist., Beijing, China.

Navimow B.V.

Dynamostraat 7. 1014 BN Amsterdam, The Netherlands

1.3. Testing Facility

☒	Test Site – MRT Suzhou Laboratory
	Laboratory Location (Suzhou - Wuzhong) D8 Building, No.2 Tian’edang Rd., Wuzhong Economic Development Zone, Suzhou, China
	Laboratory Location (Suzhou - SIP) 4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China
	Laboratory Location (Suzhou - Wujiang) Building 1, No.1 Xingdong Road, Wujiang, Suzhou, Jiangsu, People’s Republic of China
	Laboratory Accreditations
	A2LA: 3628.01 CNAS: L10551 FCC: CN1166 ISED: CN0001
	VCCI: ☐ R-20025 ☐ G-20034 ☐ C-20020 ☐ T-20020 ☐ R-20141 ☐ G-20134 ☐ C-20103 ☐ T-20104
☐	Test Site – MRT Shenzhen Laboratory
	Laboratory Location (Shenzhen) 1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China
	Laboratory Accreditations
	A2LA: 3628.02 CNAS: L10551 FCC: CN1284 ISED: CN0105
☐	Test Site – MRT Taiwan Laboratory
	Laboratory Location (Taiwan) No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
	Laboratory Accreditations
	TAF: 3261 FCC: 291082, TW3261 ISED: TW3261

1.4. Product Information

Product Name	Segway Navimow X3 Series
Model No.	X315N, X330N, X350N, X390N
Brand Name	Segway Navimow
EUT Identification No.	20241104Sample#07
Wi-Fi Specification	802.11a/b/g/n/ac/ax
Bluetooth Version	Bluetooth-LE only
SRD Specification	915.05 ~ 917.9MHz
3GPP Specification	WCDMA Band 2/4/5 LTE Band 2/4/5/12/13/14/66/71
Antenna Information	Refer to section 1.5
Operating Temp.	0 ~ 40°C
Power Type	By Battery
Accessories	
Charging Station	Product Name: Navimow Charging Station Model No.: X3C00G Input: 32V = 7.0A MAX Output: 25.2V = 7.0A MAX
Adapter	Model No.: NBW32D007D0N01-US Input: 100 ~ 240V, 50/60Hz, 4.0A MAX Output: 32.0V = 7.0A
Li-ion Battery Pack	Model No.: NBCF2213A Capacitance: 12800mAh / 276.5Wh Charging Voltage: 21.6VDC
Trimmer	Product Name: Trimmer Model No.: X3A10N
Antenna	Product Name: Antenna Model No.: X3R00G Power Type: 12VDC, 1A
Notes:	
- The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer. - The manufacturer states that the difference between the four models are only the battery capacity. The manufacturer selected the model X390N for testing. - For WWAN part, this device Contains FCC ID: XMR201909EC25AFX. - The adapter model used in the actual test is NBW32D007D0N01-EU. According to the manufacturer's statement, the only difference between NBW32D007D0N01-EU and NBW32D007D0N01-US is the	

connector of the AC cable, the others are identical.
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1.5. Radio Specification under Test

Bluetooth Frequency	2402 ~ 2480MHz
Channel Number	40
Type of modulation	GFSK
Data Rate	1Mbps & 2Mbps
Antenna Type	PCB Antenna
Antenna Gain	-1.26dBi

1.6. Working Frequencies

Channel	Frequency	Channel	Frequency	Channel	Frequency
00	2402 MHz	01	2404 MHz	02	2406 MHz
03	2408 MHz	04	2410 MHz	05	2412 MHz
06	2414 MHz	07	2416 MHz	08	2418 MHz
09	2420 MHz	10	2422 MHz	11	2424 MHz
12	2426 MHz	13	2428 MHz	14	2430 MHz
15	2432 MHz	16	2434 MHz	17	2436 MHz
18	2438 MHz	19	2440 MHz	20	2442 MHz
21	2444 MHz	22	2446 MHz	23	2448 MHz
24	2450 MHz	25	2452 MHz	26	2454 MHz
27	2456 MHz	28	2458 MHz	29	2460 MHz
30	2462 MHz	31	2464 MHz	32	2466 MHz
33	2468 MHz	34	2470 MHz	35	2472 MHz
36	2474 MHz	37	2476 MHz	38	2478 MHz
39	2480 MHz	--	--	--	--

2. Test Configuration

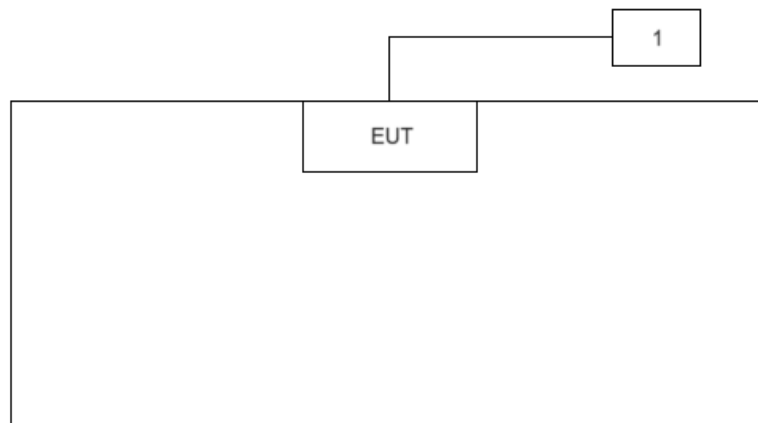
2.1. Test Mode

Mode 1: Transmit by BLE-1Mbps
Mode 2: Transmit by BLE-2Mbps

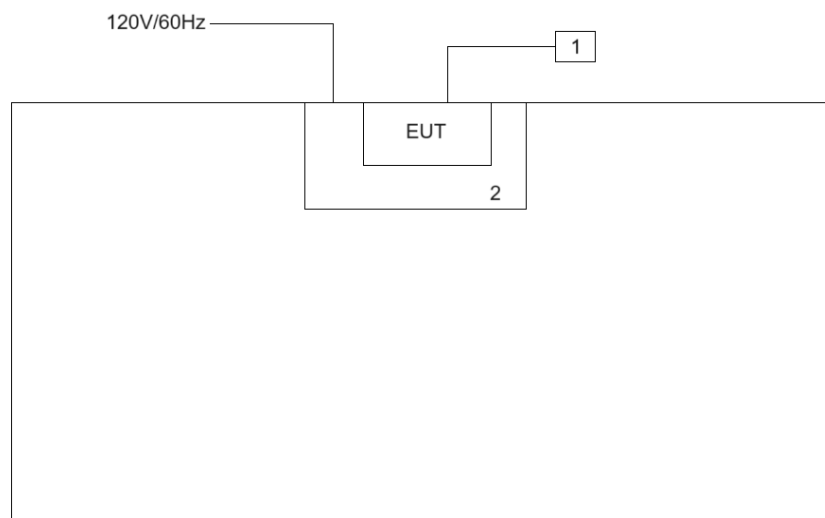
2.2. Test System Connection Diagram

The device was tested per the guidance ANSI C63.10: 2013 was used to reference the appropriate EUT setup for radiated emissions testing and AC line conducted testing.

Connection Diagram - Radiated emissions testing



Connection Diagram - AC line conducted testing



Product		Manufacturer	Model No.
1	Notebook	HP	445R G6
2	Navimow Charging Station	Navimow B.V.	X3C00G

2.3. Test Software

The test utility software used during testing was “nRF_DTM.exe”, and the version was 0.9.1.

2.4. Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15.247
- KDB 558074 D01v05r02
- ANSI C63.10-2013

2.5. Test Environment Condition

Ambient Temperature	15 ~ 35°C
Relative Humidity	20 ~75%RH

3. Antenna Requirements

Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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 antenna of the device is **permanently attached**.
- There are no provisions for connection to an external antenna.

Conclusion:

The unit complies with the requirement of §15.203.

4. Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
EMI Test Receiver	R&S	ESR3	MRTSUE06185	1 year	2024-12-17	SIP-AC3
				1 year	2025-12-05	SIP-AC3
Signal Analyzer	Keysight	N9010B	MRTSUE06559	1 year	2025-05-08	SIP-AC3
Horn Antenna	R&S	HF907	MRTSUE06611	1 year	2025-07-07	SIP-AC3
Thermohygrometer	testo	608-H1	MRTSUE06619	1 year	2025-10-16	SIP-AC3
Preamplifier	EMCI	EMC012645SE	MRTSUE06642	1 year	2025-01-11	SIP-AC3
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06599	1 year	2025-09-08	SIP-AC3
Preamplifier	EMCI	EMC184045SE	MRTSUE06602	1 year	2025-10-08	SIP-AC3
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06646	1 year	2025-07-29	SIP-AC3
Anechoic Chamber	RIKEN	SIP-AC3	MRTSUE06782	1 year	2024-12-21	SIP-AC3
				1 year	2025-12-20	SIP-AC3
Active Loop Antenna	Schwarzbeck	FMZB 1519-60 D	MRTSUE07075	1 year	2025-11-19	SIP-AC3
Cable	HUBER+SUHNER	SF106	MRTSUE06873	1 year	2024-12-21	SIP-AC3
				1 year	2025-12-20	SIP-AC3
Cable	HUBER+SUHNER	SF106	MRTSUE06878	1 year	2024-12-21	SIP-AC3
				1 year	2025-12-20	SIP-AC3
Signal Analyzer	Keysight	N9030B	MRTSUE06395	1 year	2025-06-21	SIP-TR1
Thermohygrometer	testo	608-H1	MRTSUE11022	1 year	2025-10-16	SIP-TR1
USB Power Sensor	Keysight	U2021XA	MRTSUE06596	1 year	2025-07-23	SIP-TR1
Attenuator	MVE	MVE2213	MRTSUE11101	1 year	2025-06-06	SIP-TR1
Two-Line V-Network	R&S	ENV216	MRTSUE06003	1 year	2025-05-08	SIP-SR2
EMI Test Receiver	R&S	ESR3	MRTSUE06612	1 year	2025-05-08	SIP-SR2
Four-Line V-Network	R&S	ENV432	MRTSUE06614	1 year	2025-10-13	SIP-SR2
Thermohygrometer	testo	608-H1	MRTSUE06621	1 year	2025-10-29	SIP-SR2
Shielding Room	MIX-BEP	SIP-SR2	MRTSUE06949	5 years	2029-10-13	SIP-SR2

Software	Version	Function
e3	230711	EMI Test Software
Controller_MF 7802BS	1.02	RE Antenna & Turntable
Agilent Power Analyzer/Agilent Power Panel	V R03.09.00	Power

5. Decision Rules and Measurement Uncertainty

5.1. Decision Rules

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4: 2012 Clause 8.2.
(Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.2. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

AC Conducted Emission Measurement
The maximum measurement uncertainty is evaluated as: 9kHz~150kHz: 3.58dB 150kHz~30MHz: 3.20dB
Radiated Emission Measurement
The maximum measurement uncertainty is evaluated as: Coaxial: 9kHz~30MHz: 2.61dB Coplanar: 9kHz~30MHz: 2.62dB Horizontal: 30MHz~200MHz: 3.79dB 200MHz~1GHz: 3.91dB 1GHz~40GHz: 4.99dB Vertical: 30MHz~200MHz: 4.06dB 200MHz~1GHz: 5.21dB 1GHz~40GHz: 4.90dB
Spurious Emissions, Conducted
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 2.2dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 1.4dB
Power Spectrum Density
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 2.2dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 2.7%

6. Test Result

6.1. Summary

FCC Section(s)	Test Description	Test Condition	Verdict
15.247(a)(2)	6dB Bandwidth	Conducted	Pass
15.247(b)(3)	Output Power		Pass
15.247(e)	Power Spectral Density		Pass
15.247(d)	Band Edge / Out-of-Band Emissions		Pass
15.205 15.209	General Field Strength (Restricted Bands and Radiated Emission)	Radiated	Pass
15.207	AC Conducted Emissions 150kHz - 30MHz	Line Conducted	Pass

Note: The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.

6.2. 6dB Bandwidth Measurement

6.2.1. Test Limit

The minimum 6dB bandwidth shall be at least 500 kHz.

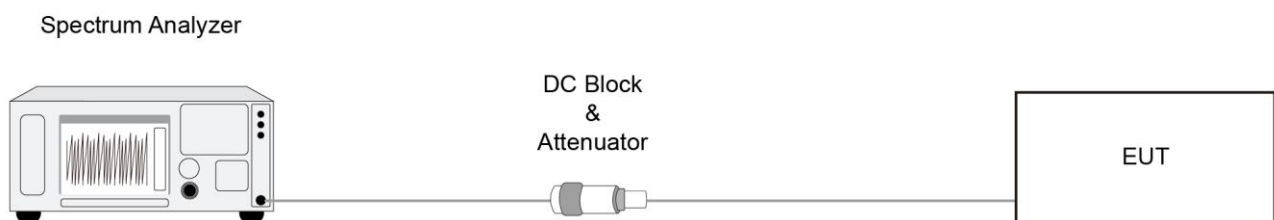
6.2.2. Test Procedure

ANSI C63.10 - 2013 - Section 11.8

6.2.3. Test Setting

1. The Spectrum's automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to $X = 6$. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. Set RBW = 100 kHz
3. $VBW \geq 3 \times RBW$
4. Detector = Peak
5. Trace mode = Max hold
6. Sweep = Auto couple
7. Allow the trace to stabilize

6.2.4. Test Setup



6.2.5. Test Result

Refer to Appendix A.2.

6.3. Output Power Measurement

6.3.1. Test Limit

The maximum output power shall be less 1 Watt (30dBm).

The conducted output power limit specified in paragraph FCC Part 15.247(b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs FCC Part 15.247(b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

6.3.2. Test Procedure

ANSI C63.10 - 2013 - Section 11.9.1.3

ANSI C63.10 - 2013 - Section 11.9.2.3.2

6.3.3. Test Setting

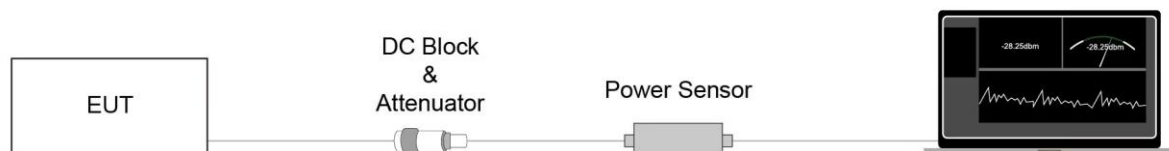
Method PKPM1 (Peak Power Measurement of Signals with DTS BW $\leq$ 50MHz)

Peak power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The pulse sensor employs a VBW = 50MHz so this method was only used for signals whose DTS bandwidth was less than or equal to 50MHz.

Average Power Measurement

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

6.3.4. Test Setup



6.3.5. Test Result

Refer to Appendix A.3.

6.4. Power Spectral Density Measurement

6.4.1. Test Limit

The maximum permissible power spectral density is 8dBm in any 3 kHz band.

The same method of determining the conducted output power shall be used to determine the power spectral density.

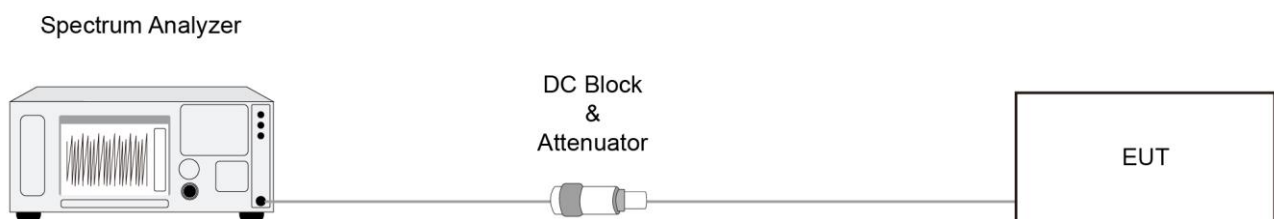
6.4.2. Test Procedure

ANSI C63.10-2013 Section 11.10.2

6.4.3. Test Setting

1. Analyzer was set to the center frequency of the DTS channel under investigation
2. Span = 1.5 times the DTS channel bandwidth
3. RBW = 3kHz
4. VBW = 10kHz
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Trace was allowed to stabilize

6.4.4. Test Setup



6.4.5. Test Result

Refer to Appendix A.4.

6.5. Conducted Band Edge and Out-of-Band Emissions Measurement

6.5.1. Test Limit

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100 kHz bandwidth per the PSD procedure.

6.5.2. Test Procedure

ANSI C63.10-2013 - Section 11.11

6.5.3. Test Setting

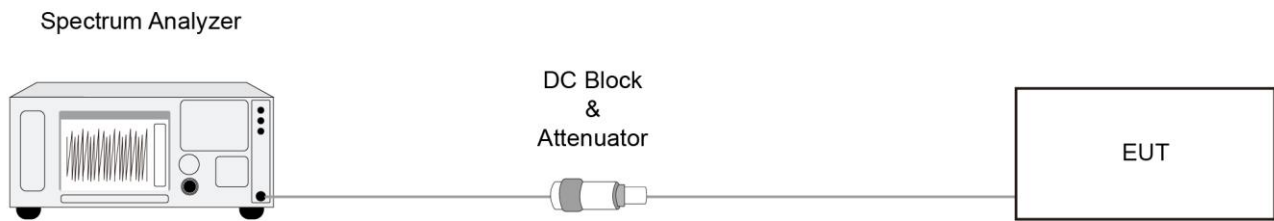
Reference level measurement

1. Set instrument center frequency to DTS channel center frequency
2. Set the span to ≥ 1.5 times the DTS bandwidth
3. Set the RBW = 100 kHz
4. Set the VBW $\geq 3 \times$ RBW
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Allow trace to fully stabilize

Emission level measurement

1. Set the center frequency and span to encompass frequency range to be measured
2. RBW = 100kHz
3. VBW = 300kHz
4. Detector = Peak
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

6.5.4. Test Setup



6.5.5. Test Result

Refer to Appendix A.5.

6.6. Radiated Spurious Emission Measurement

6.6.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

6.6.2. Test Procedure

ANSI C63.10 - 2013 - Section 11.11 & 11.12

ANSI C63.10 - 2013 - Section 6.3 (General Requirements)

ANSI C63.10 - 2013 - Section 6.4 (Standard test method below 30MHz)

ANSI C63.10 - 2013 - Section 6.5 (Standard test method above 30MHz to 1GHz)

ANSI C63.10 - 2013 - Section 6.6 (Standard test method above 1GHz)

6.6.3. Test Setting

Table 1 - RBW as a function of frequency

Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000MHz	1MHz

Quasi-Peak Measurements below 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as specified in Table 1
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

Peak Measurements above 1GHz

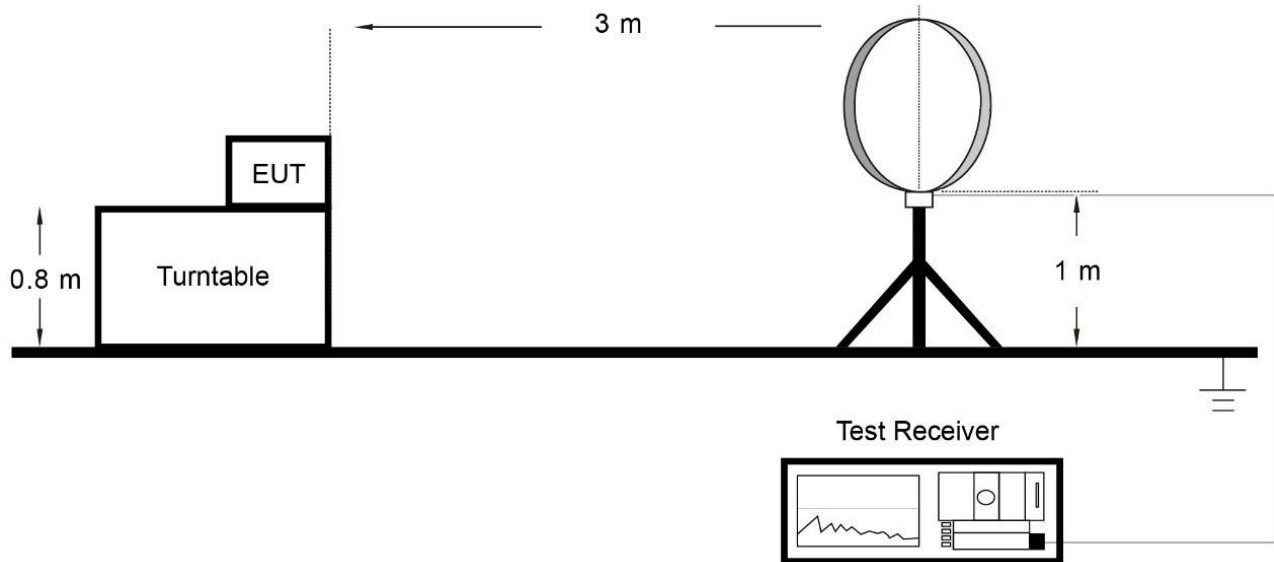
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Peak
5. Sweep time = Auto couple
6. Trace mode = Max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

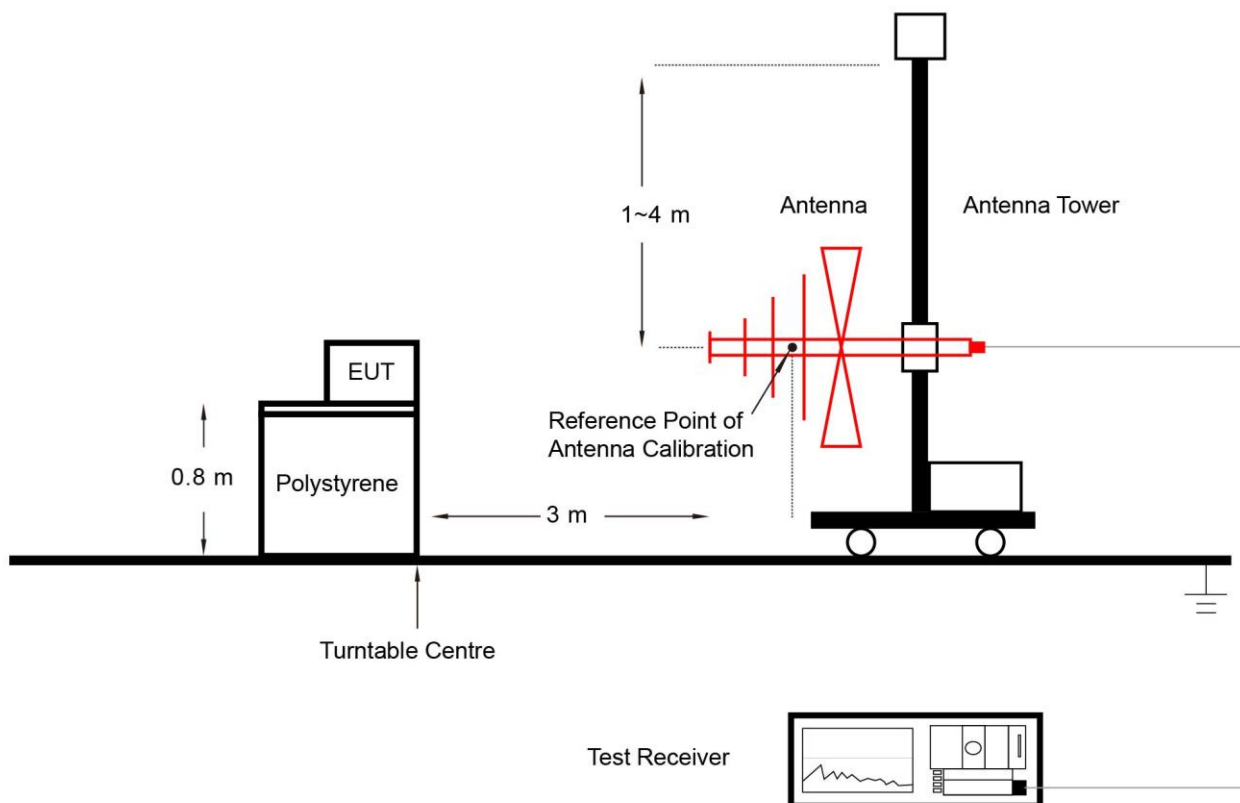
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; if the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10Hz
If the EUT duty cycle is $< 98\%$, set $\text{VBW} \geq 1/T$. T is the minimum transmission duration.
4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
5. Detector = Peak
6. Sweep time = Auto
7. Trace mode = Max hold
8. Trace was allowed to stabilize

6.6.4. Test Setup

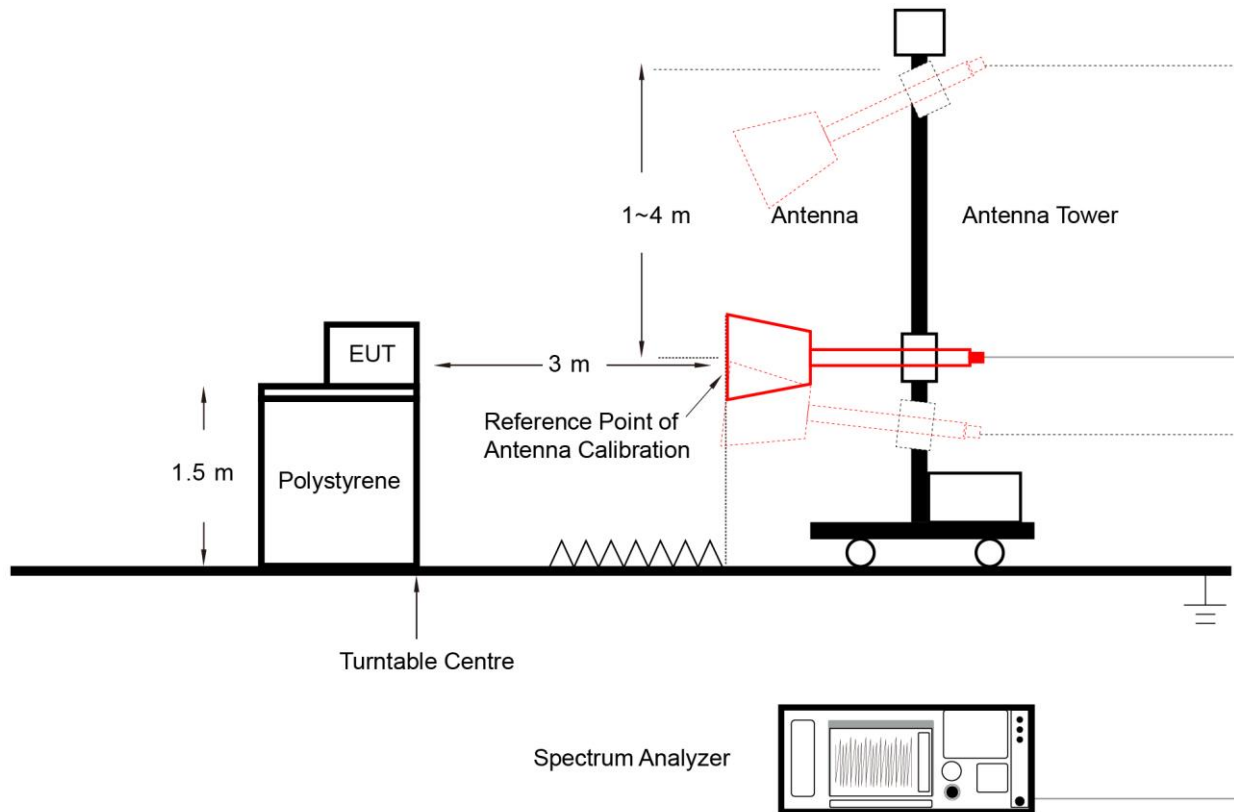
Below 30MHz Test Setup:



Below 1GHz Test Setup:



Above 1GHz Test Setup:



6.6.5. Test Result

Refer to Appendix A.6.

6.7. Radiated Restricted Band Edge Measurement

6.7.1. Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (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	2690 - 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)
13.36 - 13.41	--	--	--

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

6.7.2. Test Procedure

ANSI C63.10-2013 Section 6.3 & 6.6 & 11.13

6.7.3. Test Setting

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

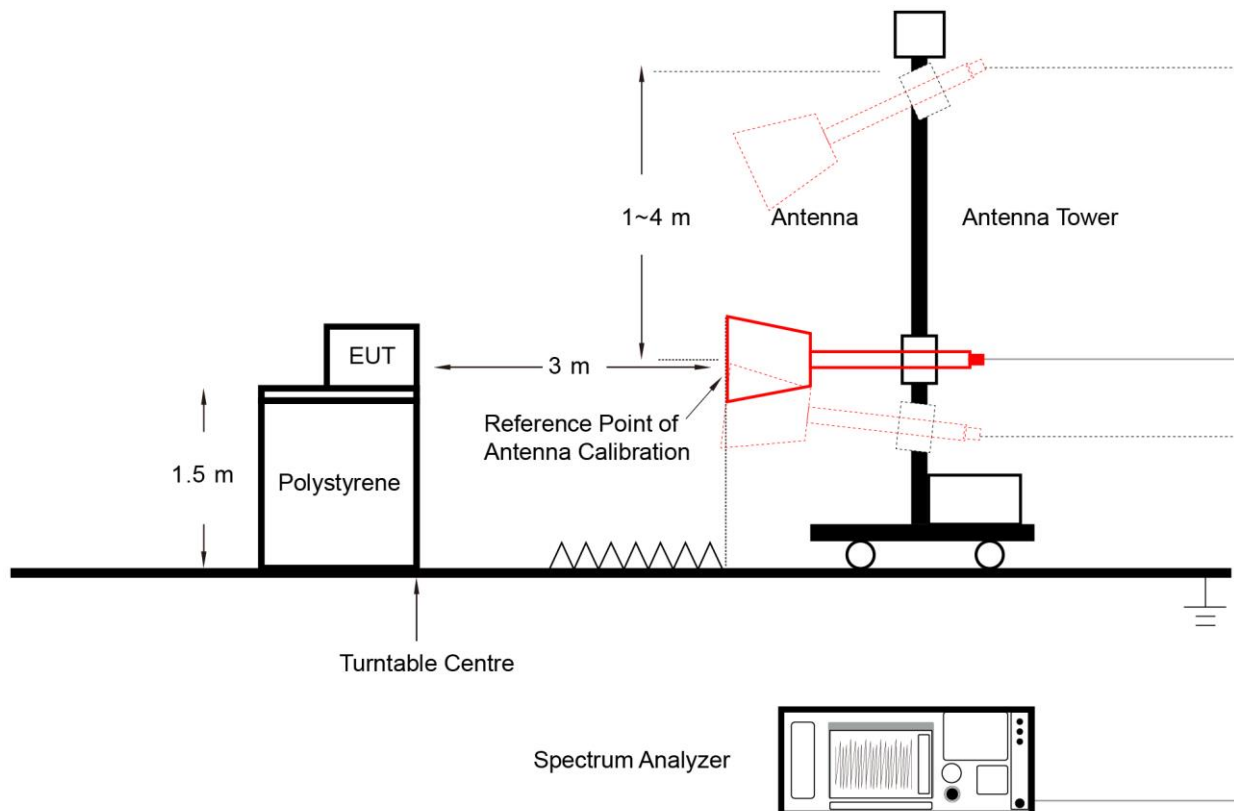
Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz.

If the EUT duty cycle is $< 98\%$, set VBW $\geq 1/T$. T is the minimum transmission duration.

4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
5. Detector = Peak
6. Sweep time = auto
7. Trace mode = max hold
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

6.7.4. Test Setup



6.7.5. Test Result

Refer to Appendix A.7.

6.8. AC Conducted Emissions Measurement

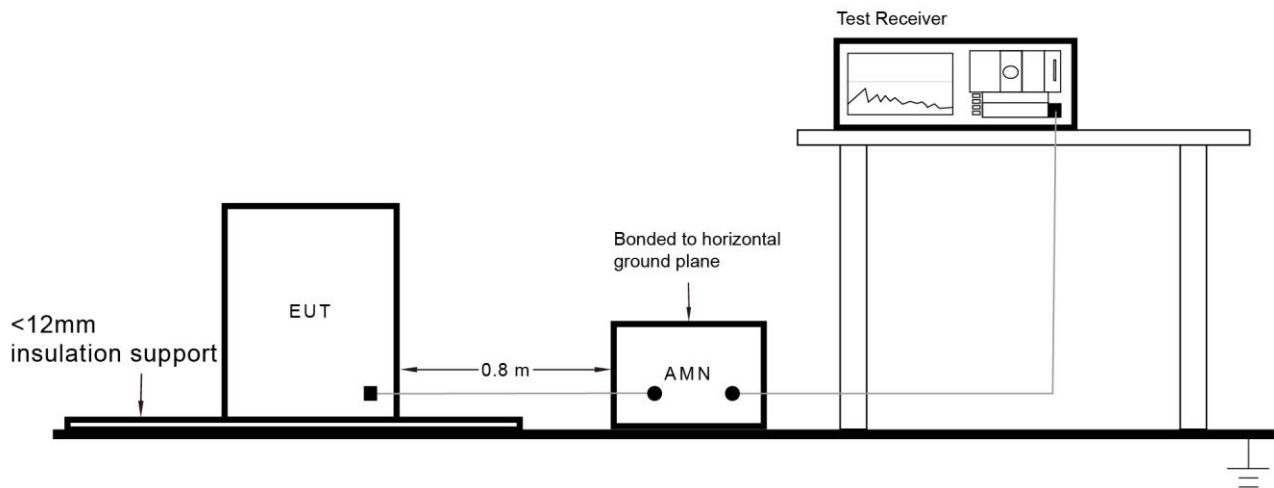
6.8.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

6.8.2. Test Setup



6.8.3. Test Result

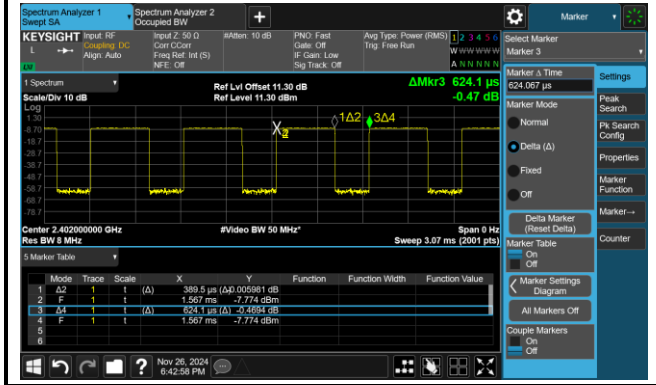
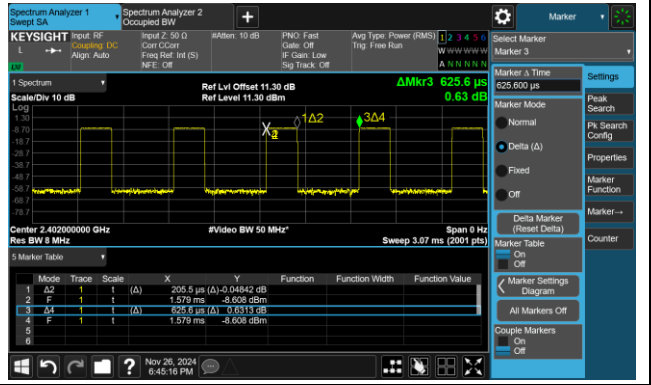
Refer to Appendix A.8.

Appendix A - Test Result

A.1 Duty Cycle Test Result

Test Site	SIP-TR1	Test Engineer	Alisa Deng
Test Date	2024-11-26		

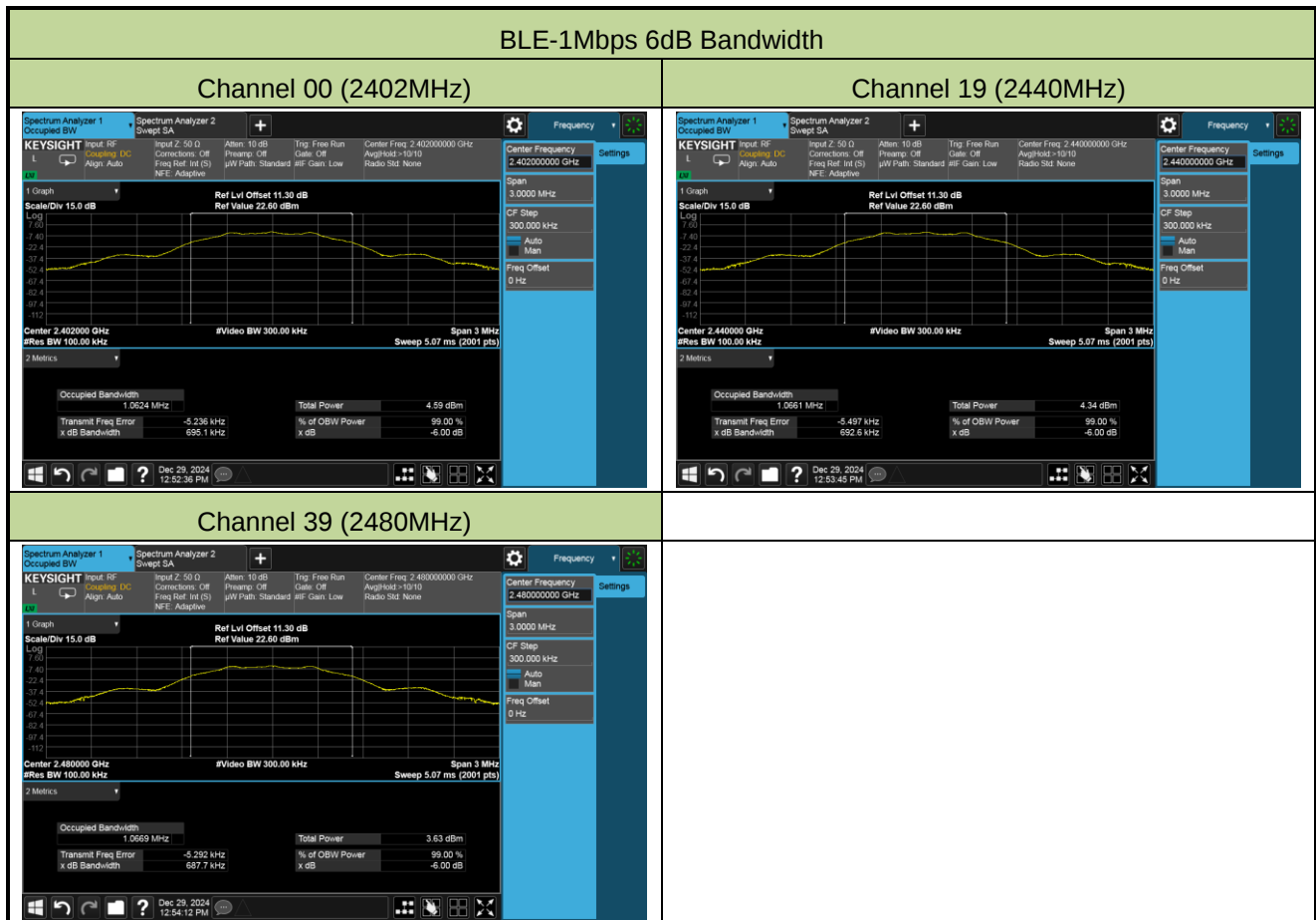
Test Mode	Duty Cycle
BLE-1Mbps	62.41%
BLE-2Mbps	32.85%
Duty Cycle (T = Transmission Duration)	
BLE-1Mbps (T = 389.5µs)	BLE-2Mbps (T = 205.5µs)

A.2 6dB Bandwidth Test Result

Test Site	SIP-TR1	Test Engineer	Alisa Deng
Test Date	2024-12-29		

Test Mode	Data Rate	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
BLE	1Mbps	00	2402	0.6951	≥ 0.5
BLE	1Mbps	19	2440	0.6926	≥ 0.5
BLE	1Mbps	39	2480	0.6877	≥ 0.5
BLE	2Mbps	00	2402	1.1250	≥ 0.5
BLE	2Mbps	19	2440	1.1240	≥ 0.5
BLE	2Mbps	39	2480	1.1240	≥ 0.5



BLE-2Mbps 6dB Bandwidth

Channel 00 (2402MHz)



Channel 19 (2440MHz)



Channel 39 (2480MHz)



A.3 Output Power Test Result

Test Site	SIP-TR1	Test Engineer	Alisa Deng
Test Date	2024-11-26		

Test Result of Peak Output Power

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Peak Power (dBm)	Limit (dBm)	Result
BLE	1Mbps	00	2402	-1.84	≤ 30.00	Pass
BLE	1Mbps	19	2440	-2.14	≤ 30.00	Pass
BLE	1Mbps	39	2480	-2.87	≤ 30.00	Pass
BLE	2Mbps	00	2402	-1.86	≤ 30.00	Pass
BLE	2Mbps	19	2440	-2.20	≤ 30.00	Pass
BLE	2Mbps	39	2480	-2.89	≤ 30.00	Pass

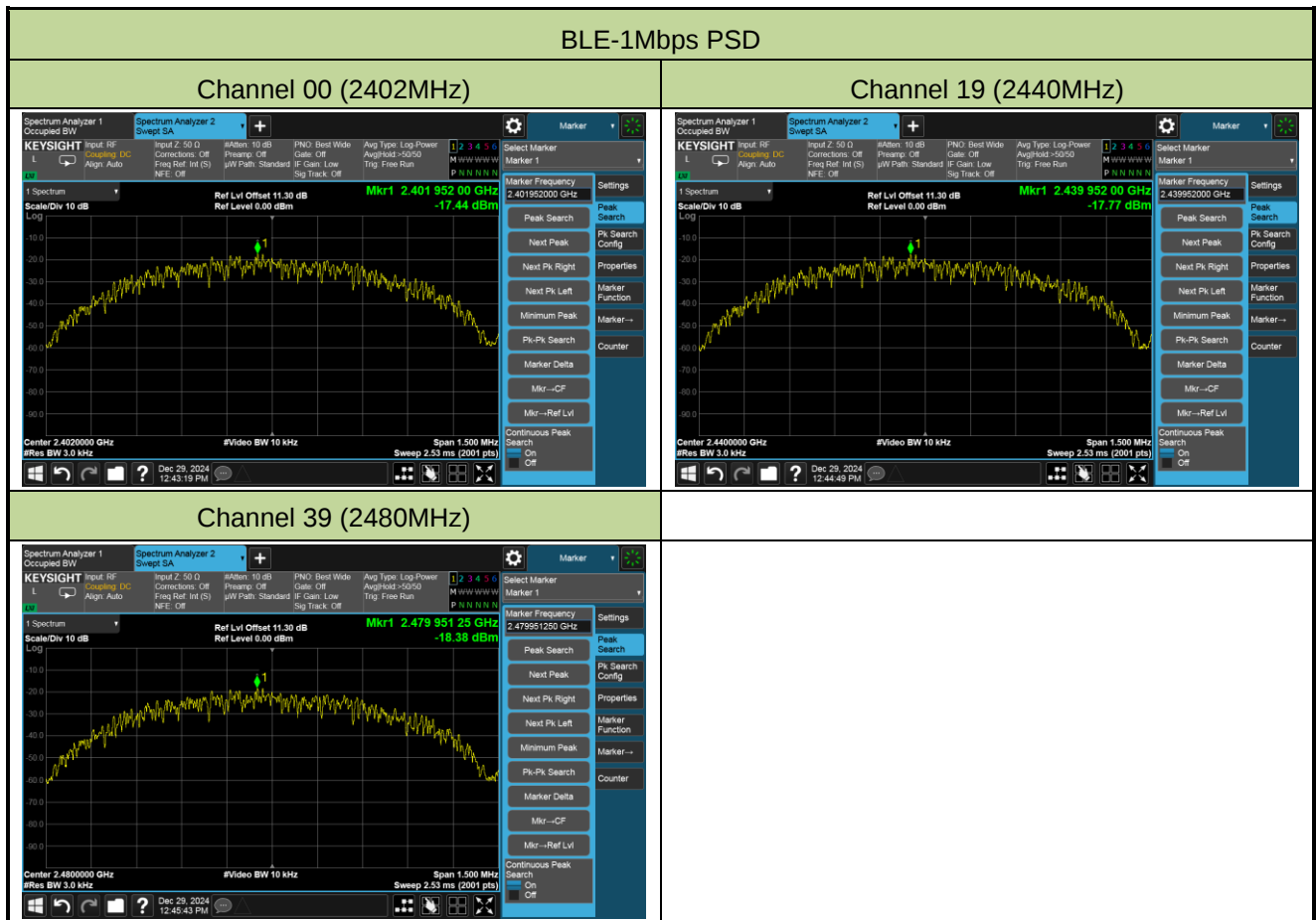
Test Result of Average Output Power (Reporting Only)

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Average Power (dBm)	Limit (dBm)	Result
BLE	1Mbps	00	2402	-2.19	≤ 30.00	Pass
BLE	1Mbps	19	2440	-2.47	≤ 30.00	Pass
BLE	1Mbps	39	2480	-3.19	≤ 30.00	Pass
BLE	2Mbps	00	2402	-2.18	≤ 30.00	Pass
BLE	2Mbps	19	2440	-2.51	≤ 30.00	Pass
BLE	2Mbps	39	2480	-3.20	≤ 30.00	Pass

A.4 Power Spectral Density Test Result

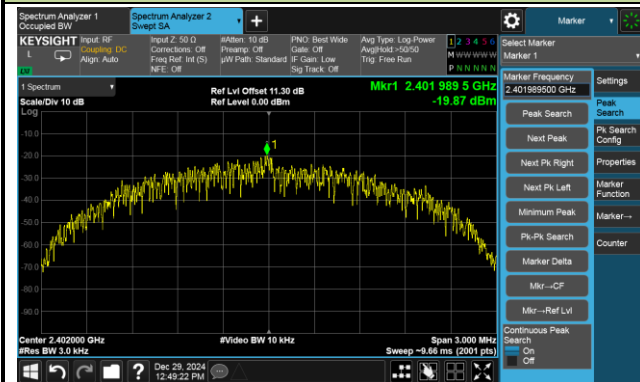
Test Site	SIP-TR1	Test Engineer	Alisa Deng
Test Date	2024-12-29		

Test Mode	Data Rate	Channel No.	Frequency (MHz)	PSD Result (dBm / 3kHz)	Limit (dBm / 3kHz)	Result
BLE	1Mbps	00	2402	-17.44	≤ 8.00	Pass
BLE	1Mbps	19	2440	-17.77	≤ 8.00	Pass
BLE	1Mbps	39	2480	-18.38	≤ 8.00	Pass
BLE	2Mbps	00	2402	-19.87	≤ 8.00	Pass
BLE	2Mbps	19	2440	-20.10	≤ 8.00	Pass
BLE	2Mbps	39	2480	-20.75	≤ 8.00	Pass

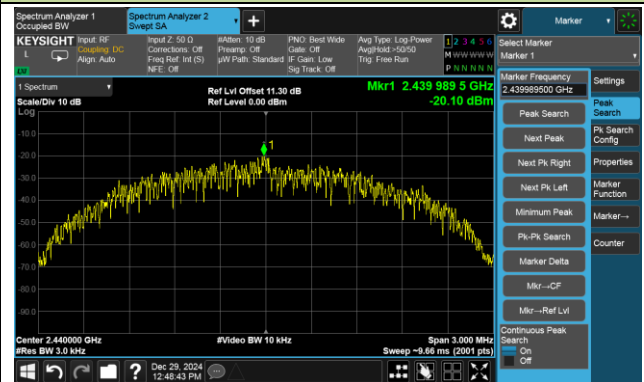


BLE-2Mbps PSD

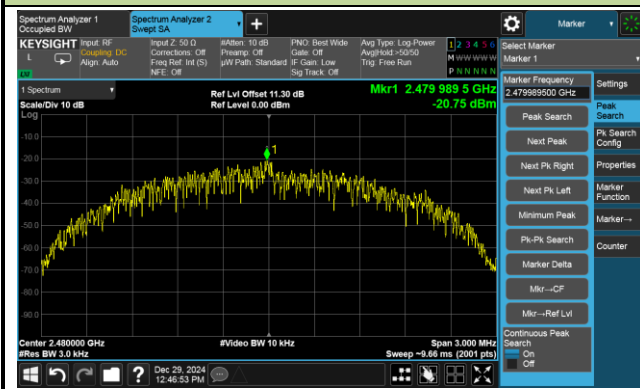
Channel 00 (2402MHz)



Channel 19 (2440MHz)



Channel 39 (2480MHz)



A.5 Conducted Band Edge and Out-of-Band Emissions Test Result

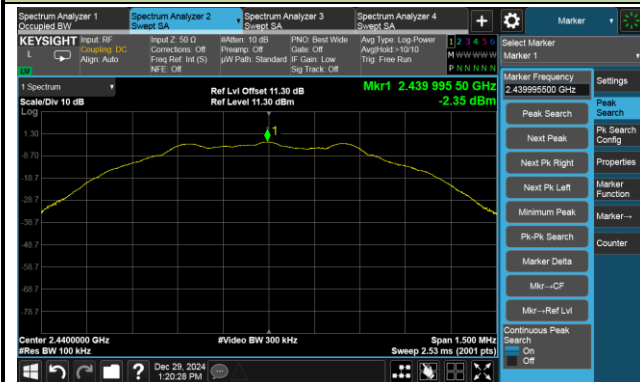
Test Site	SIP-TR1	Test Engineer	Alisa Deng
Test Date	2024-12-29		

Test Mode	Data Rate / Mbps	Channel No.	Frequency (MHz)	Limit	Result
BLE	1	00	2402	20dBc	Pass
BLE	1	19	2440	20dBc	Pass
BLE	1	39	2480	20dBc	Pass
BLE	2	00	2402	20dBc	Pass
BLE	2	19	2440	20dBc	Pass
BLE	2	39	2480	20dBc	Pass

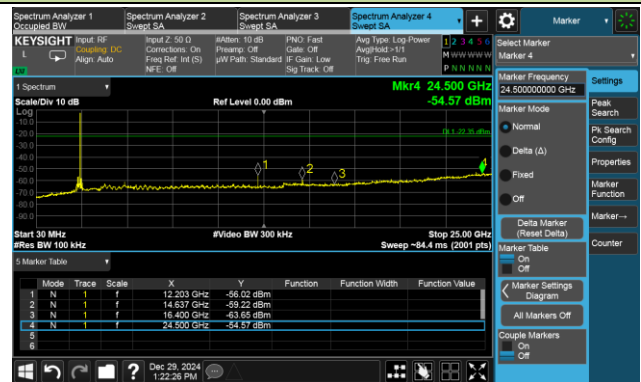


Channel 19 (2440MHz)

100kHz PSD Reference Level

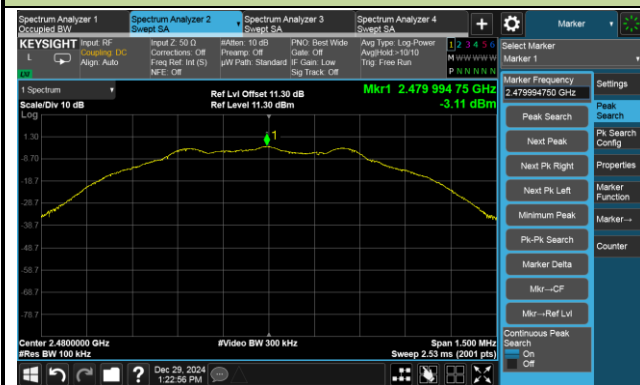


Spurious Emission 30MHz ~ 25GHz

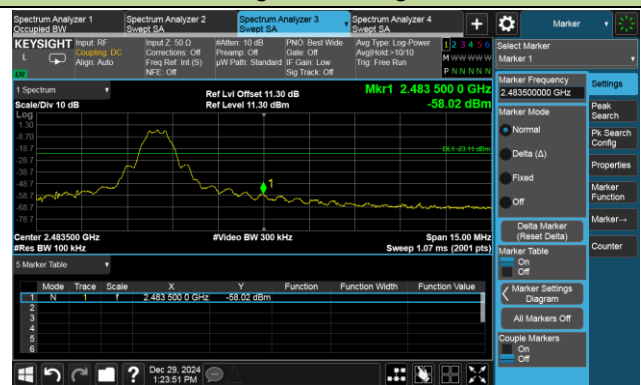


Channel 39 (2480MHz)

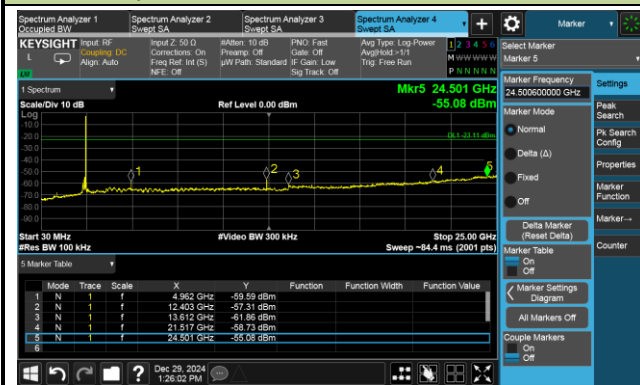
100kHz PSD Reference Level



High Band Edge



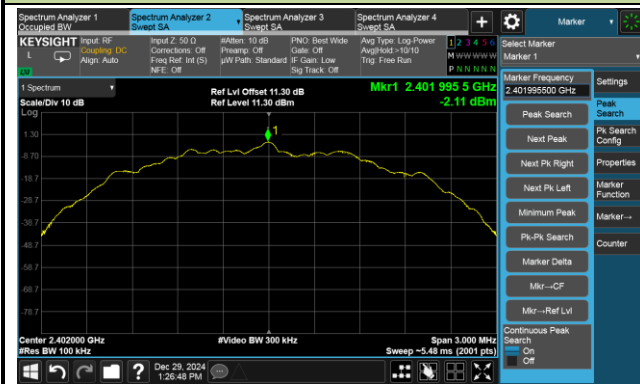
Spurious Emission 30MHz ~ 25GHz



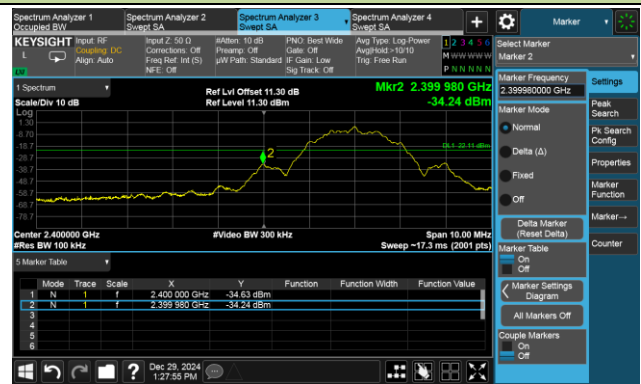
BLE-2Mbps Out-of-Band Emissions

Channel 00 (2402MHz)

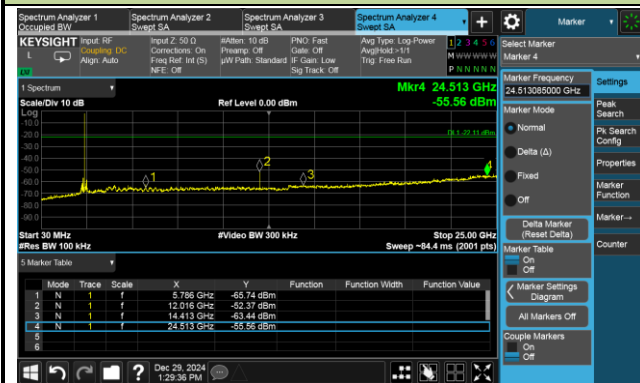
100kHz PSD Reference Level



Low Band Edge



Spurious Emission 30MHz ~ 25GHz

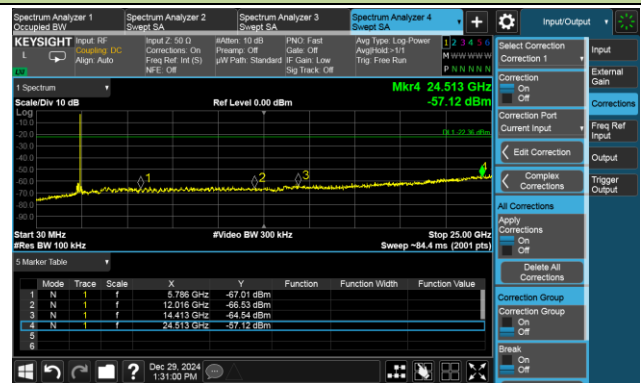


Channel 19 (2440MHz)

100kHz PSD Reference Level



Spurious Emission 30MHz ~ 25GHz



Channel 39 (2480MHz)

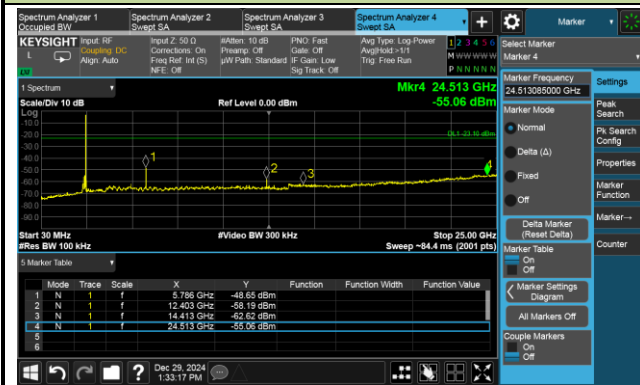
100kHz PSD Reference Level



High Band Edge



Spurious Emission 30MHz ~ 25GHz



A.6 Radiated Spurious Emission Test Result

Test Site	SIP-AC3	Test Engineer	Mero Zhou
Test Date	2024-12-24	Test Mode:	BLE-1Mbps
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
00	5051.1	48.4	-4.0	44.4	74.0	-29.6	Peak	Horizontal
	7206.7	54.3	-2.3	52.0	68.2	-16.2	Peak	Horizontal
	8269.2	48.1	-1.0	47.1	74.0	-26.9	Peak	Horizontal
	12009.2	53.5	1.3	54.8	74.0	-19.2	Peak	Horizontal
	12009.2	48.1	1.3	49.4	54.0	-4.6	Average	Horizontal
	4804.6	49.8	-4.6	45.2	74.0	-28.8	Peak	Vertical
	7206.7	56.0	-2.3	53.7	74.0	-20.3	Peak	Vertical
	8191.0	48.0	-0.3	47.7	74.0	-26.3	Peak	Vertical
	12009.2	50.8	1.3	52.1	74.0	-21.9	Peak	Vertical
	12009.2	44.1	1.3	45.4	54.0	-8.6	Average	Vertical
19	7318.9	54.5	-2.3	52.2	74.0	-21.8	Peak	Horizontal
	7318.9	51.2	-2.3	48.9	54.0	-5.1	Average	Horizontal
	8252.2	48.3	-1.2	47.1	74.0	-26.9	Peak	Horizontal
	12199.6	49.7	1.5	51.2	74.0	-22.8	Peak	Horizontal
	12199.6	44.1	1.5	45.6	54.0	-8.4	Average	Horizontal
	7318.9	56.9	-2.3	54.6	74.0	-19.4	Peak	Vertical
	7318.9	52.4	-2.3	50.1	54.0	-3.9	Average	Vertical
	8185.9	48.0	-0.4	47.6	74.0	-26.4	Peak	Vertical
	12201.3	50.5	1.5	52.0	74.0	-22.0	Peak	Vertical
	12201.3	44.1	1.5	45.6	54.0	-8.4	Average	Vertical
39	7441.3	56.3	-2.3	54.0	74.0	-20.0	Peak	Horizontal
	7441.3	51.5	-2.3	49.2	54.0	-4.8	Average	Horizontal
	8163.8	48.3	-0.5	47.8	74.0	-26.2	Peak	Horizontal
	12398.5	48.2	1.4	49.6	74.0	-24.4	Peak	Horizontal
	7441.3	57.7	-2.3	55.4	74.0	-18.6	Peak	Vertical
	7441.3	51.8	-2.3	49.5	54.0	-4.5	Average	Vertical
	8216.5	47.4	-0.7	46.7	74.0	-27.3	Peak	Vertical
	11065.7	48.0	3.0	51.0	74.0	-23.0	Peak	Vertical

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Mero Zhou
Test Date	2024-12-24	Test Mode:	BLE-2Mbps
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

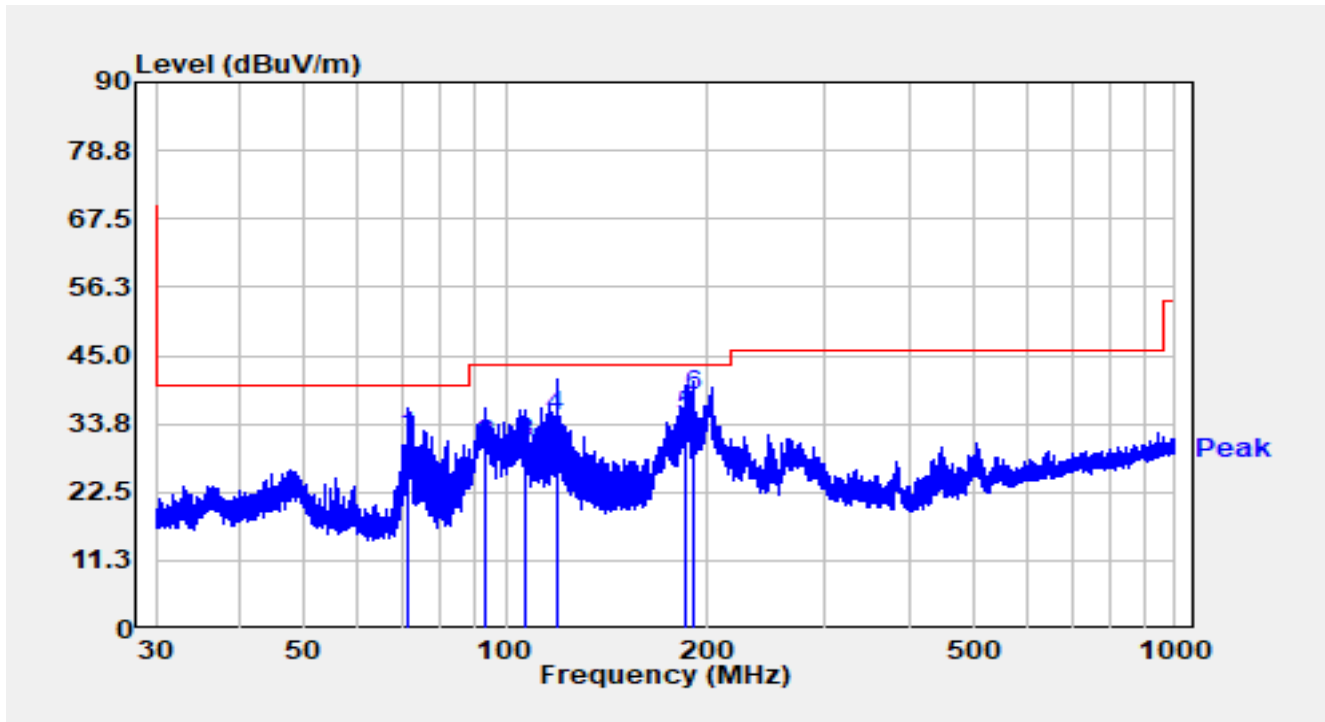
Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
00	5032.4	49.2	-4.0	45.2	74.0	-28.8	Peak	Horizontal
	7205.0	52.1	-2.3	49.8	74.0	-24.2	Peak	Horizontal
	8111.1	47.8	-0.6	47.2	74.0	-26.8	Peak	Horizontal
	12007.5	48.3	1.3	49.6	74.0	-24.4	Peak	Horizontal
	4942.3	48.9	-4.2	44.7	74.0	-29.3	Peak	Vertical
	7205.0	55.1	-2.3	52.8	74.0	-21.2	Peak	Vertical
	8179.1	47.1	-0.4	46.7	74.0	-27.3	Peak	Vertical
	12012.6	48.8	1.3	50.1	74.0	-23.9	Peak	Vertical
19	7322.3	54.0	-2.3	51.7	74.0	-22.3	Peak	Horizontal
	7322.3	51.4	-2.3	49.1	54.0	-4.9	Average	Horizontal
	8310.0	47.9	-0.9	47.0	74.0	-27.0	Peak	Horizontal
	11050.4	47.5	2.6	50.1	74.0	-23.9	Peak	Horizontal
	7320.6	55.2	-2.3	52.9	74.0	-21.1	Peak	Vertical
	7320.6	52.2	-2.3	49.9	54.0	-4.1	Average	Vertical
	8330.4	47.7	-1.0	46.7	74.0	-27.3	Peak	Vertical
	12197.9	48.4	1.5	49.9	74.0	-24.1	Peak	Vertical
39	7441.3	56.2	-2.3	53.9	74.0	-20.1	Peak	Horizontal
	7441.3	51.7	-2.3	49.4	54.0	-4.6	Average	Horizontal
	8168.9	47.5	-0.5	47.0	74.0	-27.0	Peak	Horizontal
	11572.3	46.7	2.4	49.1	74.0	-24.9	Peak	Horizontal
	7441.3	56.0	-2.3	53.7	74.0	-20.3	Peak	Vertical
	7441.3	51.1	-2.3	48.8	54.0	-5.2	Average	Vertical
	8112.8	47.7	-0.6	47.1	74.0	-26.9	Peak	Vertical
	11489.0	46.5	2.6	49.1	74.0	-24.9	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

The Result of Radiated Emission below 1GHz:

Site	SIP-AC3	Test Date	2024-12-25
Temperature	17.3°C	Humidity	35.3%
Limit	FCC_Part15.209_RSE(3m)	Test Engineer	Mero Zhou
Factor	VULB 9168_00997_25-2000MHz	Polarity	Horizontal
EUT	Segway Navimow X3 Series	Test Voltage	By Battery
Test Mode	Transmit by BLE_1M at 2440MHz		

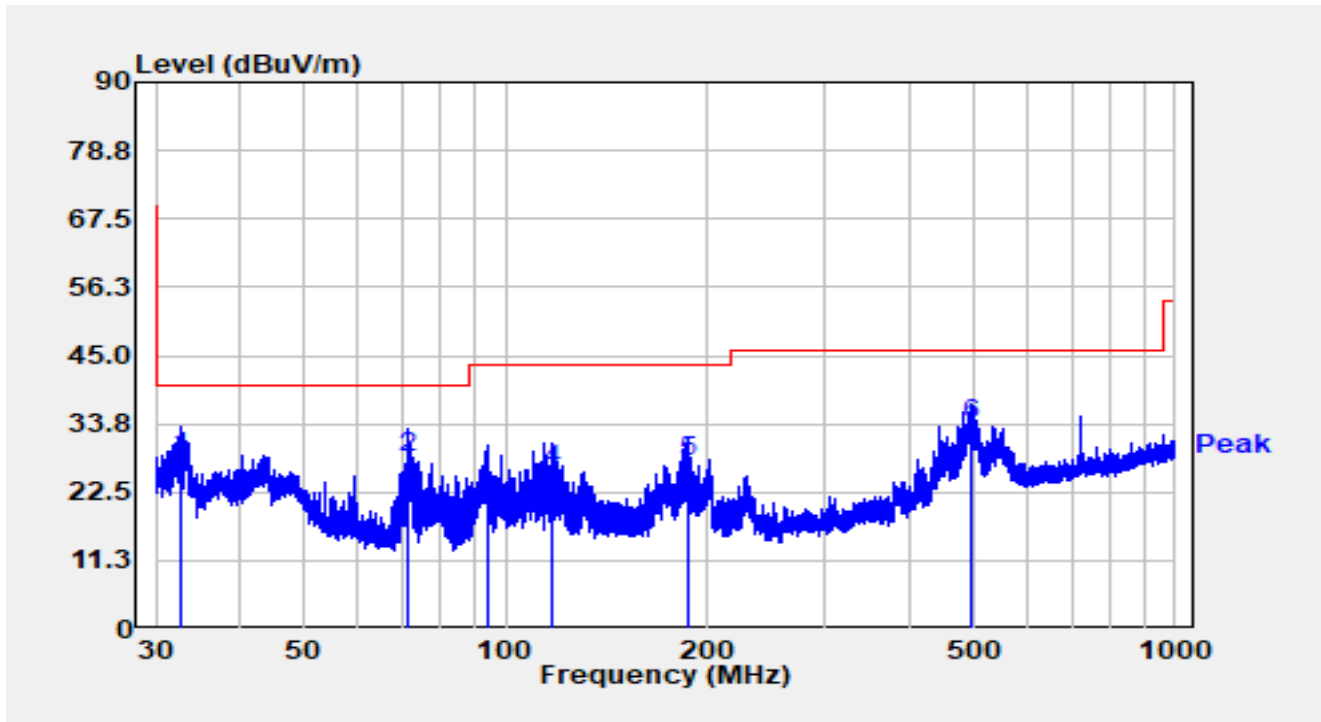


No	Mark	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector
1		71.180	15.60	16.08	31.68	-8.32	40.00	QP
2		93.211	17.40	12.95	30.35	-13.15	43.50	QP
3		106.984	15.70	14.96	30.66	-12.84	43.50	QP
4		118.893	18.90	16.09	34.99	-8.51	43.50	QP
5		185.788	19.00	16.12	35.12	-8.38	43.50	QP
6	*	191.476	22.80	15.48	38.28	-5.22	43.50	QP

Notes:

- " * ", means this data is the worst emission level.
- C.F (dB/m) = Antenna Factor (dB/m)+ Cable Loss (dB).
- Measurement (dBuV/m) = Reading (dBuV) + C.F (dB/m).
- The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

Site	SIP-AC3	Test Date	2024-12-25
Temperature	17.3°C	Humidity	35.3%
Limit	FCC_Part15.209_RSE(3m)	Test Engineer	Mero Zhou
Factor	VULB 9168_00997_25-2000MHz	Polarity	Vertical
EUT	Segway Navimow X3 Series	Test Voltage	By Battery
Test Mode	Transmit by BLE_1M at 2440MHz		



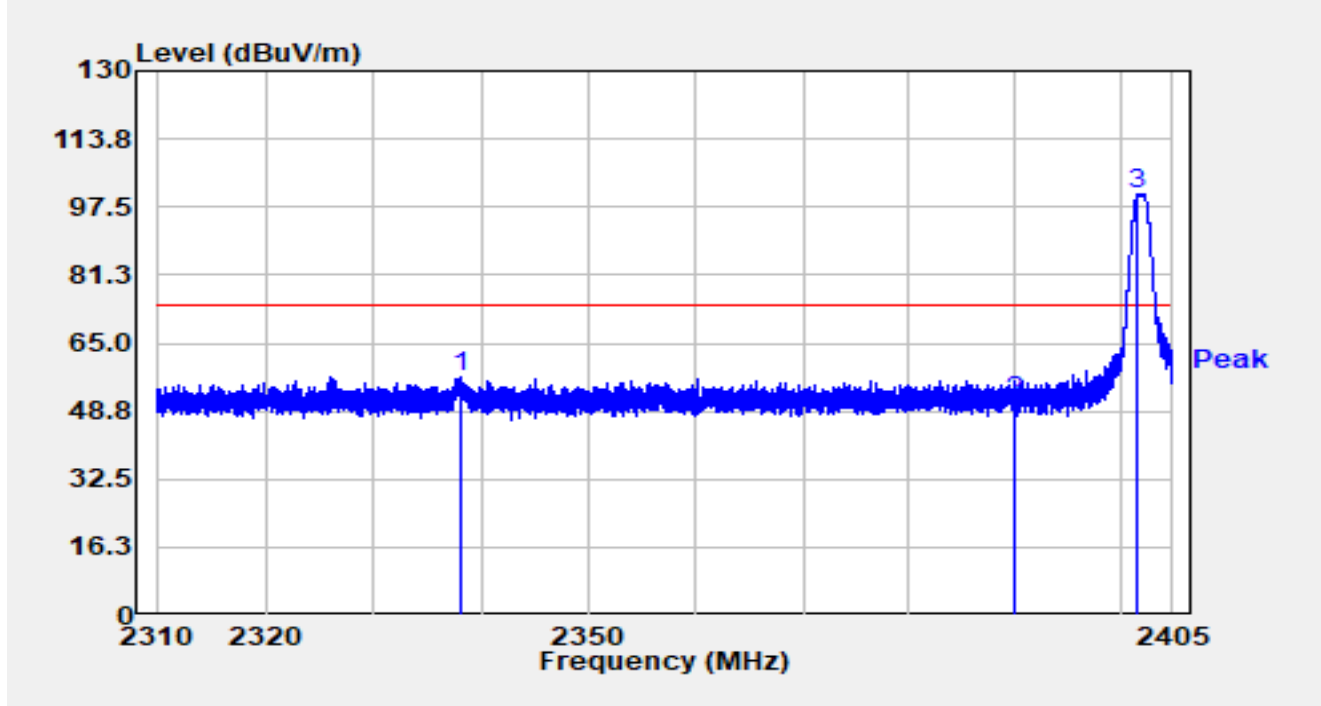
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		32.737	11.00	17.04	28.04	-11.96	40.00	QP
2	*	71.130	12.00	16.09	28.09	-11.91	40.00	QP
3		94.098	7.00	13.05	20.05	-23.45	43.50	QP
4		117.073	10.10	15.95	26.05	-17.45	43.50	QP
5		187.819	11.80	15.87	27.67	-15.83	43.50	QP
6		496.108	10.50	23.13	33.63	-12.37	46.00	QP

Notes:

- "*", means this data is the worst emission level.
- C.F (dB/m) = Antenna Factor (dB/m)+ Cable Loss (dB).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).
- The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

A.7 Radiated Restricted Band Edge Test Result

Site	SIP-AC3	Test Date	2024-12-24
Temperature	17.3°C	Humidity	35.8%
Limit	FCC_Part15_Band Edge(3m)	Test Engineer	Mero Zhou
Factor	HF907_102861_1-18GHz	Polarity	Horizontal
EUT	Segway Navimow X3 Series	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BLE_1M at 2402MHz		

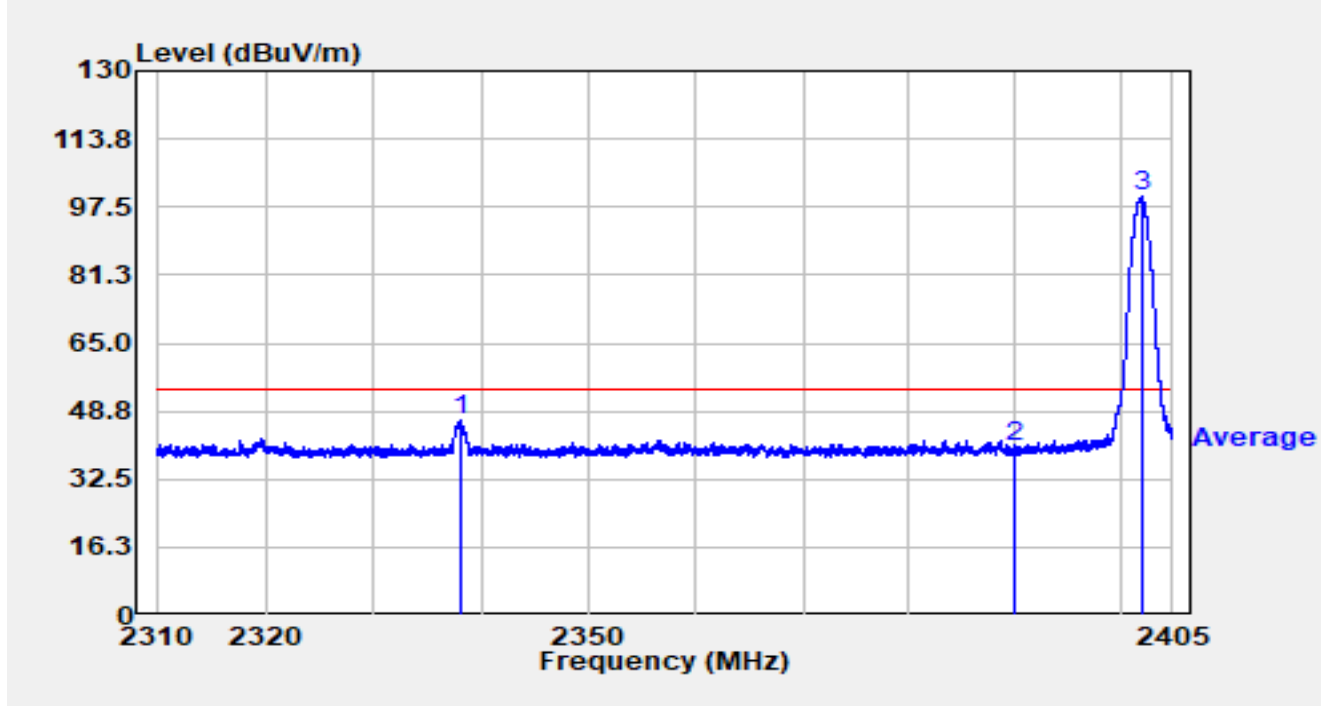


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2338.092	24.56	32.53	57.09	-16.91	74.00	Peak
2		2390.000	18.49	32.69	51.18	-22.82	74.00	Peak
3		2401.713	67.69	32.74	100.42	N/A	N/A	Peak

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	SIP-AC3	Test Date	2024-12-24
Temperature	17.3°C	Humidity	35.8%
Limit	FCC_Part15_Band Edge(3m)	Test Engineer	Mero Zhou
Factor	HF907_102861_1-18GHz	Polarity	Horizontal
EUT	Segway Navimow X3 Series	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BLE_1M at 2402MHz		

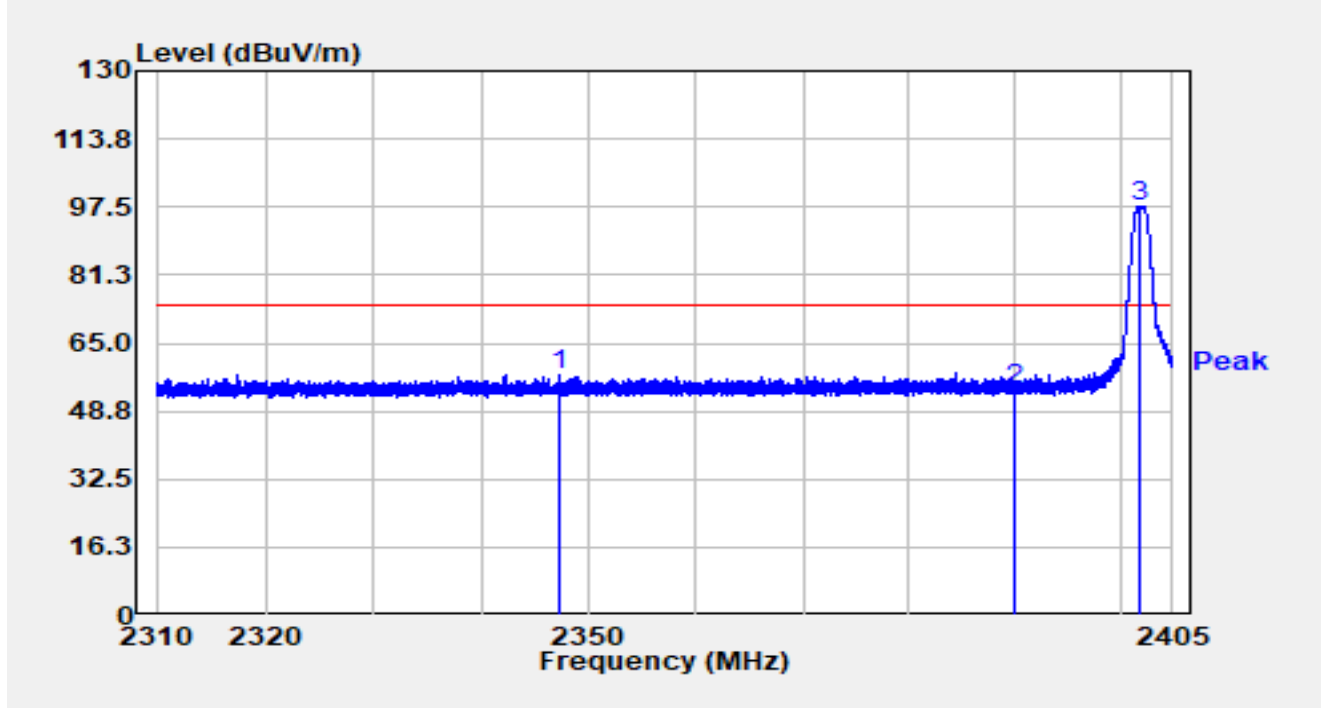


No	Mark	Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Detector
1	*	2338.101	13.89	32.53	46.42	-7.58	54.00	Average
2		2390.000	7.72	32.69	40.40	-13.60	54.00	Average
3		2402.027	67.11	32.74	99.85	N/A	N/A	Average

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBUV/m) = Reading (dBUV) + C.F (dB/m).

Site	SIP-AC3	Test Date	2024-12-24
Temperature	17.3°C	Humidity	35.8%
Limit	FCC_Part15_Band Edge(3m)	Test Engineer	Mero Zhou
Factor	HF907_102861_1-18GHz	Polarity	Vertical
EUT	Segway Navimow X3 Series	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BLE_1M at 2402MHz		

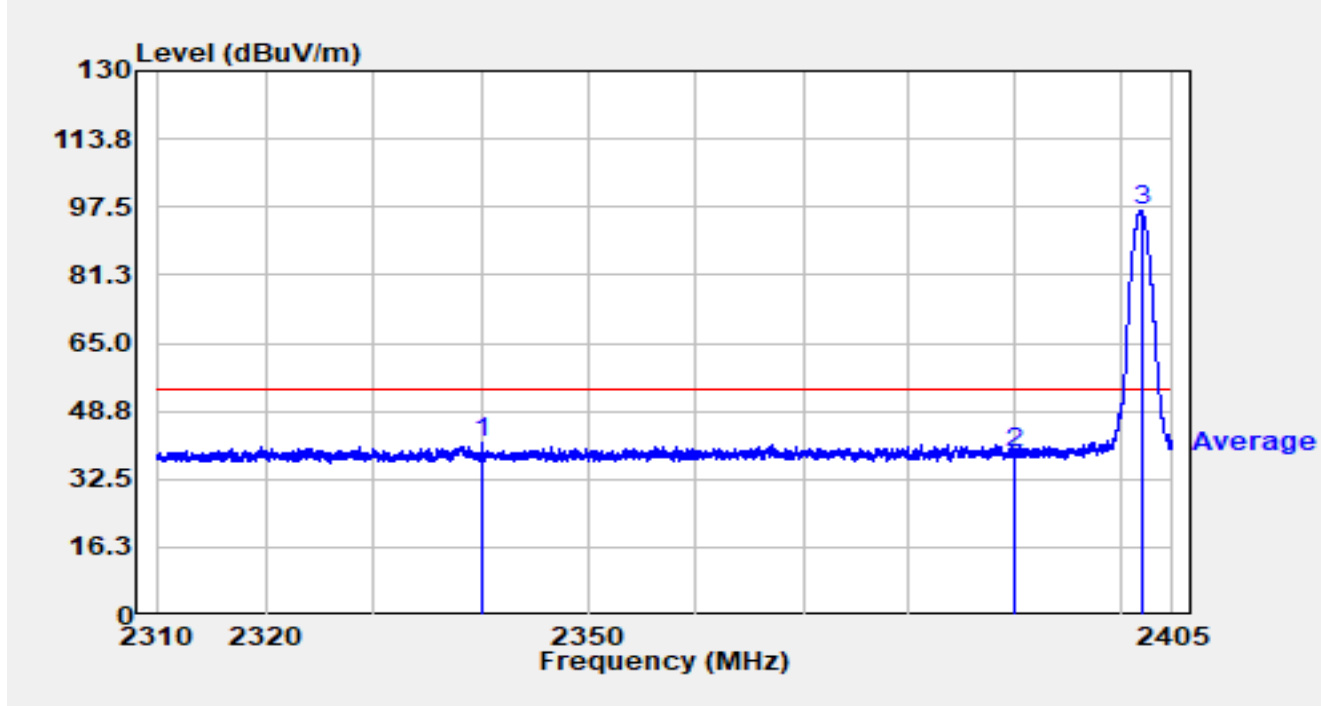


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2347.250	24.60	32.57	57.16	-16.84	74.00	Peak
2		2390.000	21.08	32.69	53.77	-20.23	74.00	Peak
3		2401.989	64.76	32.74	97.50	N/A	N/A	Peak

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	SIP-AC3	Test Date	2024-12-24
Temperature	17.3°C	Humidity	35.8%
Limit	FCC_Part15_Band Edge(3m)	Test Engineer	Mero Zhou
Factor	HF907_102861_1-18GHz	Polarity	Vertical
EUT	Segway Navimow X3 Series	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BLE_1M at 2402MHz		

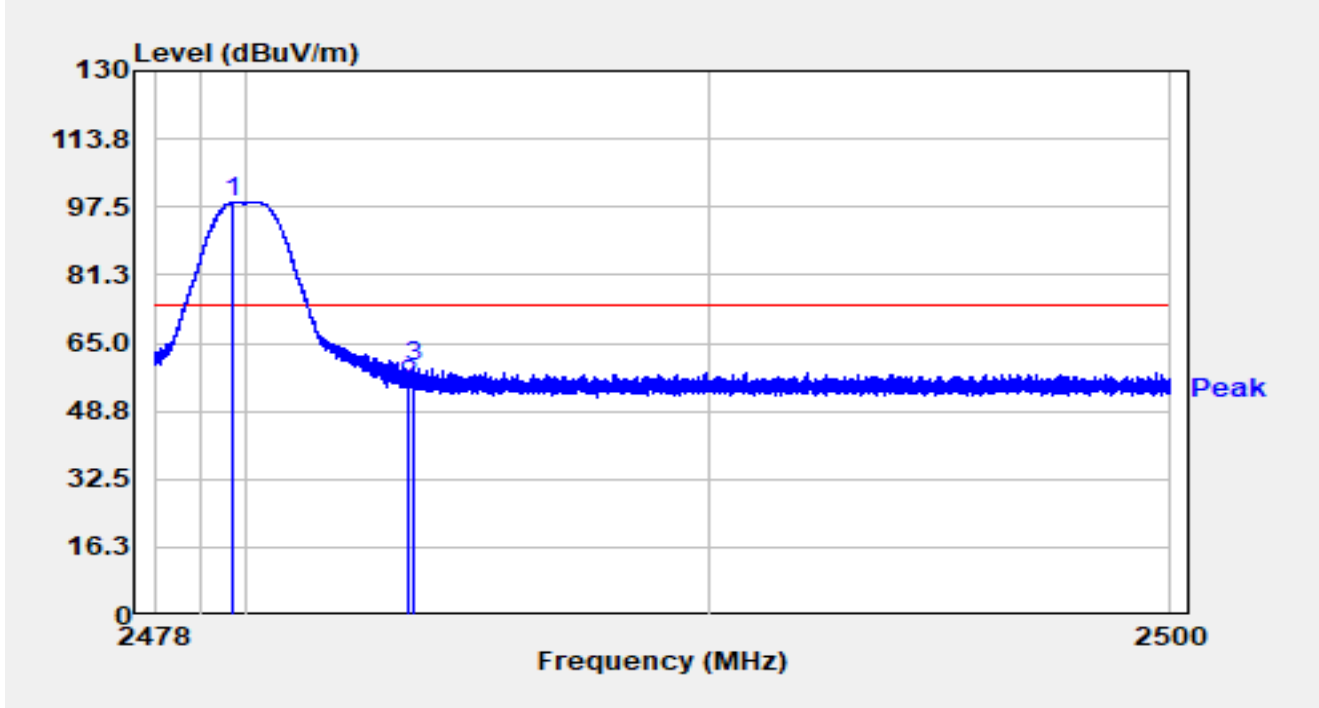


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2339.963	8.78	32.54	41.32	-12.68	54.00	Average
2		2390.000	6.30	32.69	38.99	-15.01	54.00	Average
3		2402.074	63.80	32.74	96.54	N/A	N/A	Average

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	SIP-AC3	Test Date	2024-12-24
Temperature	17.3°C	Humidity	35.8%
Limit	FCC_Part15_Band Edge(3m)	Test Engineer	Mero Zhou
Factor	HF907_102861_1-18GHz	Polarity	Horizontal
EUT	Segway Navimow X3 Series	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BLE_1M at 2480MHz		

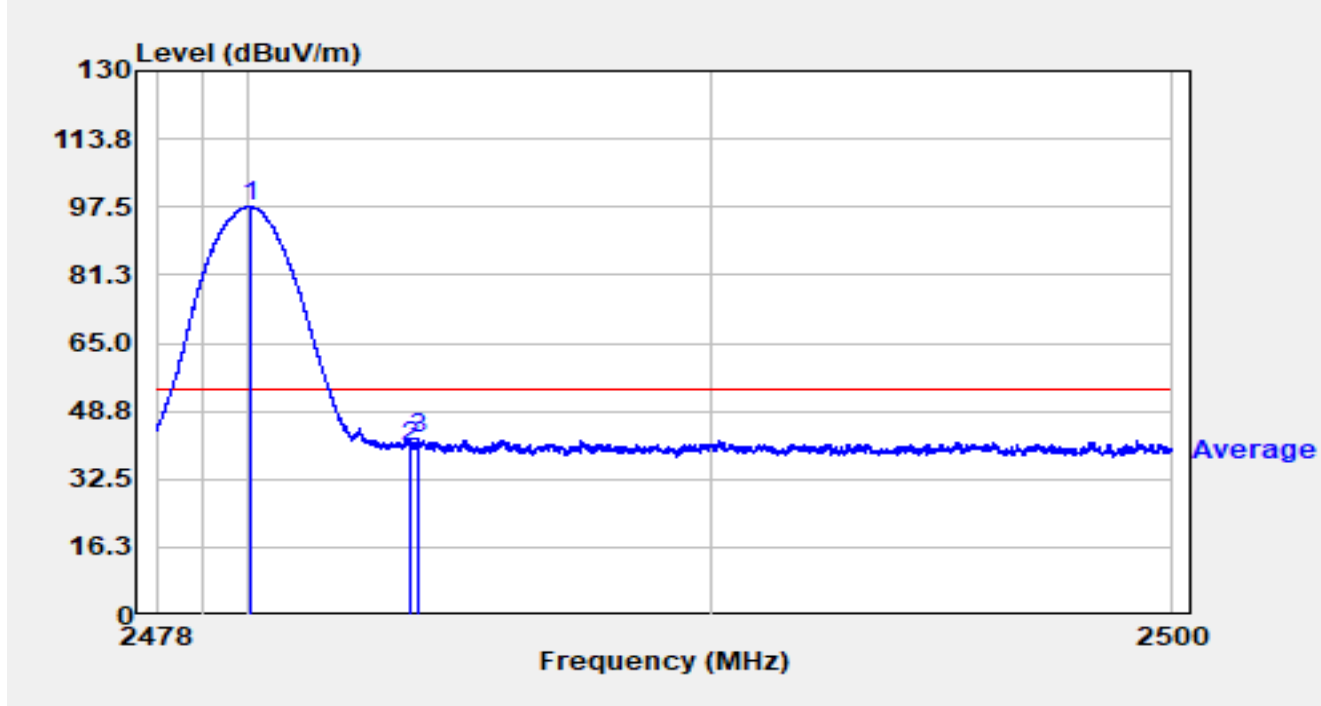


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2479.698	65.53	33.11	98.64	N/A	N/A	Peak
2		2483.500	22.06	33.13	55.19	-18.81	74.00	Peak
3	*	2483.608	26.00	33.13	59.13	-14.87	74.00	Peak

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	SIP-AC3	Test Date	2024-12-24
Temperature	17.3°C	Humidity	35.8%
Limit	FCC_Part15_Band Edge(3m)	Test Engineer	Mero Zhou
Factor	HF907_102861_1-18GHz	Polarity	Horizontal
EUT	Segway Navimow X3 Series	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BLE_1M at 2480MHz		

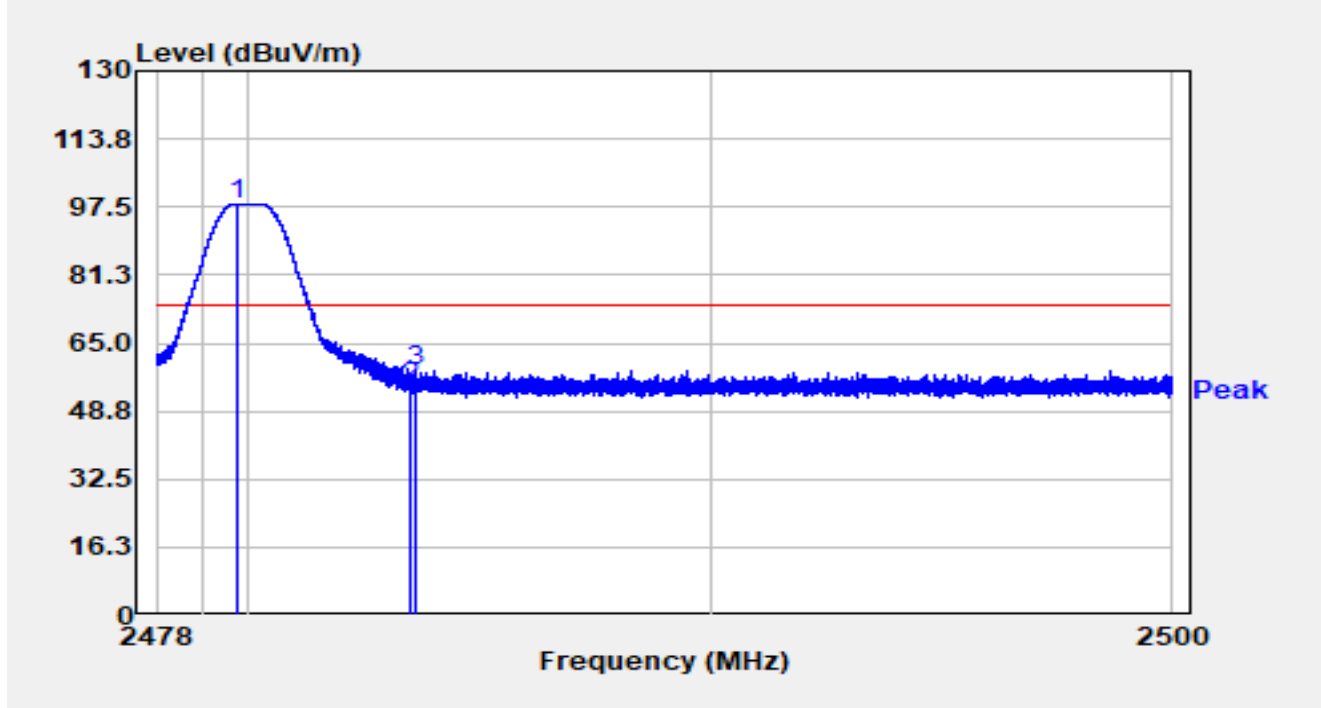


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2480.009	64.47	33.11	97.58	N/A	N/A	Average
2		2483.500	7.21	33.13	40.34	-13.66	54.00	Average
3	*	2483.634	8.88	33.13	42.01	-11.99	54.00	Average

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	SIP-AC3	Test Date	2024-12-24
Temperature	17.3°C	Humidity	35.8%
Limit	FCC_Part15_Band Edge(3m)	Test Engineer	Mero Zhou
Factor	HF907_102861_1-18GHz	Polarity	Vertical
EUT	Segway Navimow X3 Series	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BLE_1M at 2480MHz		

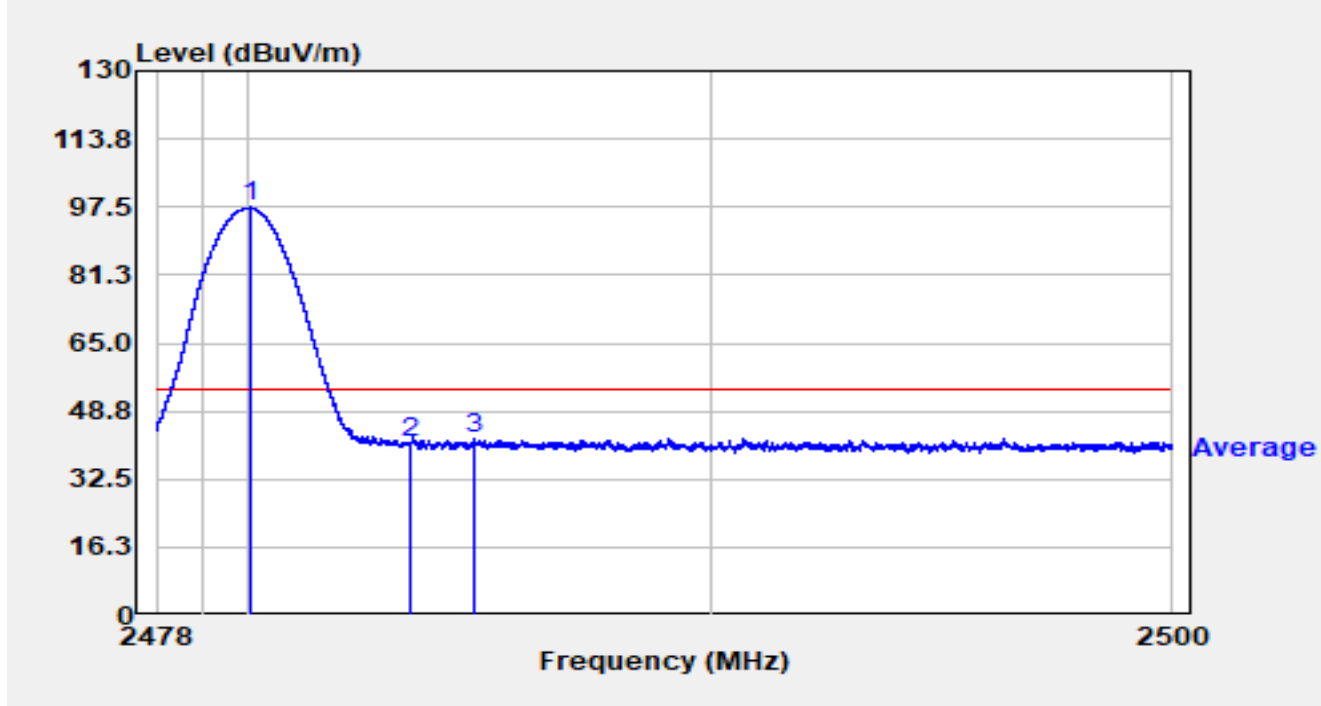


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2479.740	65.22	33.11	98.33	N/A	N/A	Peak
2		2483.500	21.13	33.13	54.26	-19.74	74.00	Peak
3	*	2483.615	25.49	33.13	58.62	-15.38	74.00	Peak

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	SIP-AC3	Test Date	2024-12-24
Temperature	17.3°C	Humidity	35.8%
Limit	FCC_Part15_Band Edge(3m)	Test Engineer	Mero Zhou
Factor	HF907_102861_1-18GHz	Polarity	Vertical
EUT	Segway Navimow X3 Series	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BLE_1M at 2480MHz		

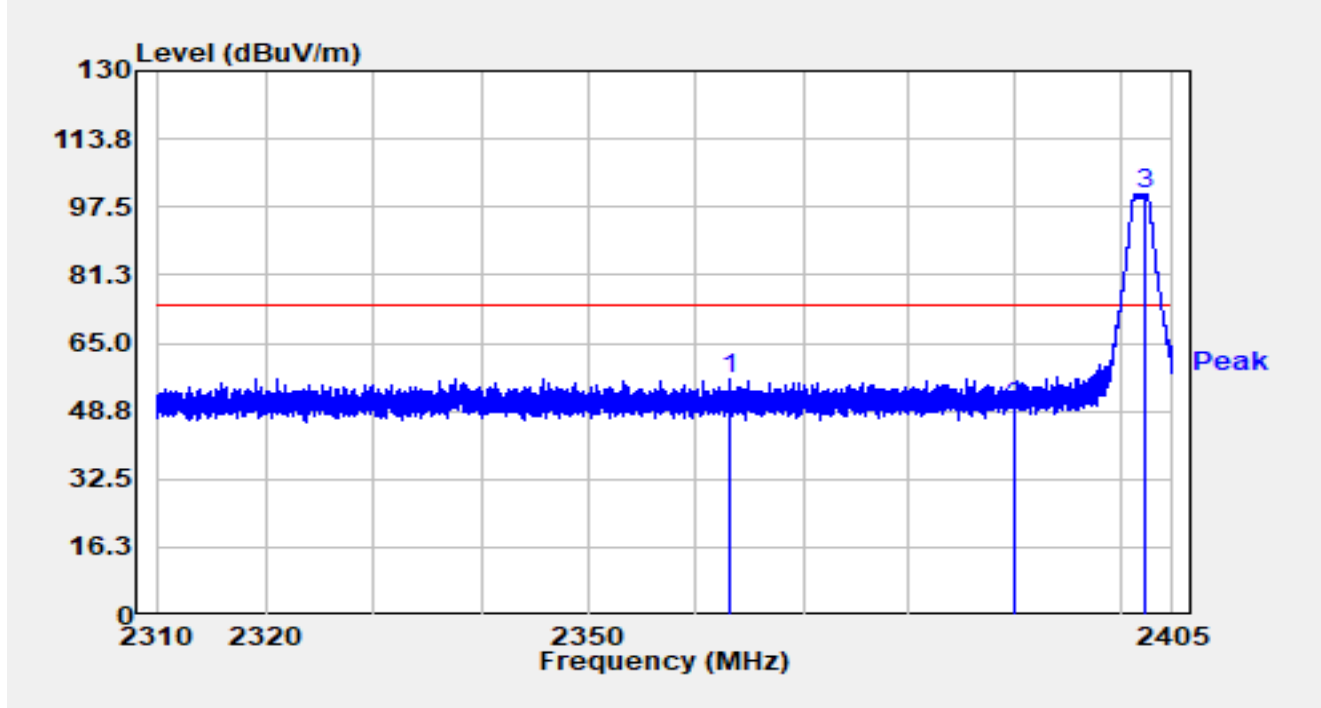


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2480.024	64.27	33.11	97.38	N/A	N/A	Average
2		2483.500	8.15	33.13	41.28	-12.72	54.00	Average
3	*	2484.860	9.07	33.14	42.21	-11.79	54.00	Average

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	SIP-AC3	Test Date	2024-12-24
Temperature	17.3°C	Humidity	35.8%
Limit	FCC_Part15_Band Edge(3m)	Test Engineer	Mero Zhou
Factor	HF907_102861_1-18GHz	Polarity	Horizontal
EUT	Segway Navimow X3 Series	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BLE_2M at 2402MHz		

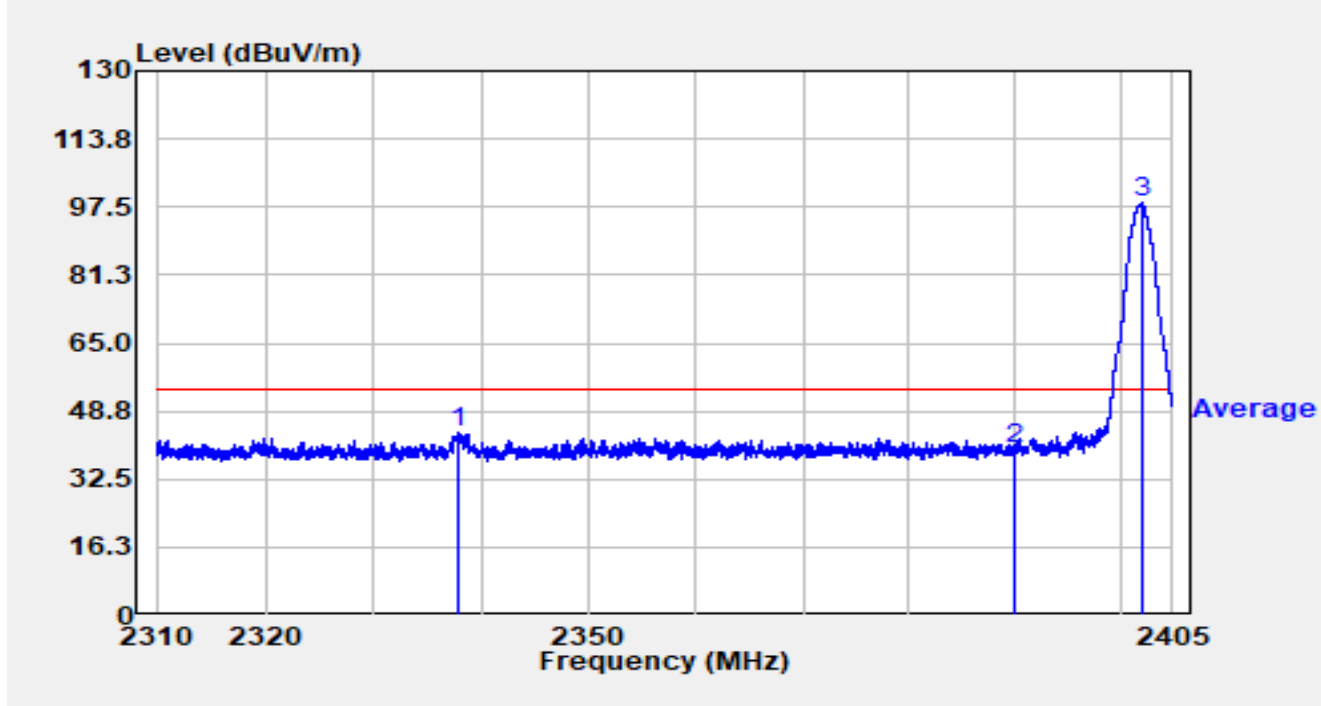


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2363.153	23.63	32.61	56.24	-17.76	74.00	Peak
2		2390.000	16.63	32.69	49.32	-24.68	74.00	Peak
3		2402.463	67.79	32.74	100.53	N/A	N/A	Peak

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	SIP-AC3	Test Date	2024-12-24
Temperature	17.3°C	Humidity	35.8%
Limit	FCC_Part15_Band Edge(3m)	Test Engineer	Mero Zhou
Factor	HF907_102861_1-18GHz	Polarity	Horizontal
EUT	Segway Navimow X3 Series	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BLE_2M at 2402MHz		

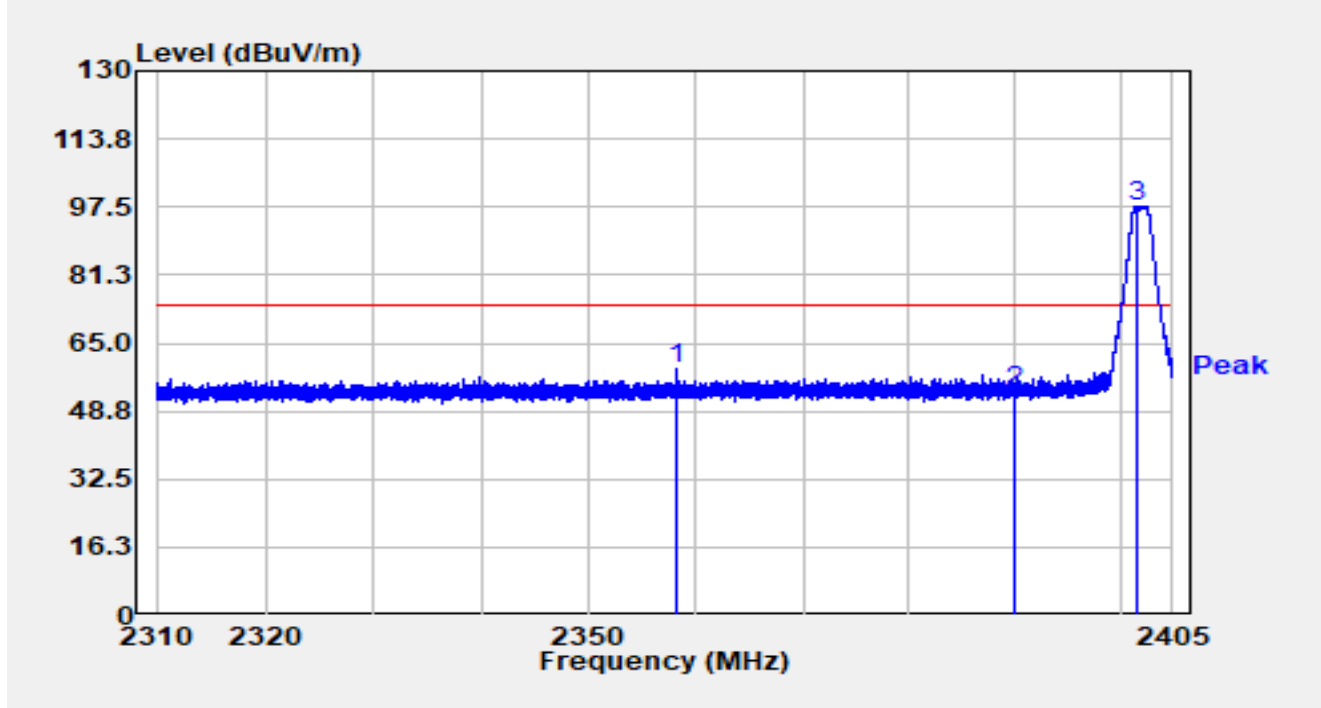


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2337.797	11.17	32.54	43.71	-10.29	54.00	Average
2		2390.000	7.13	32.69	39.82	-14.18	54.00	Average
3		2402.027	65.66	32.74	98.39	N/A	N/A	Average

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	SIP-AC3	Test Date	2024-12-24
Temperature	17.3°C	Humidity	35.8%
Limit	FCC_Part15_Band Edge(3m)	Test Engineer	Mero Zhou
Factor	HF907_102861_1-18GHz	Polarity	Vertical
EUT	Segway Navimow X3 Series	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BLE_2M at 2402MHz		

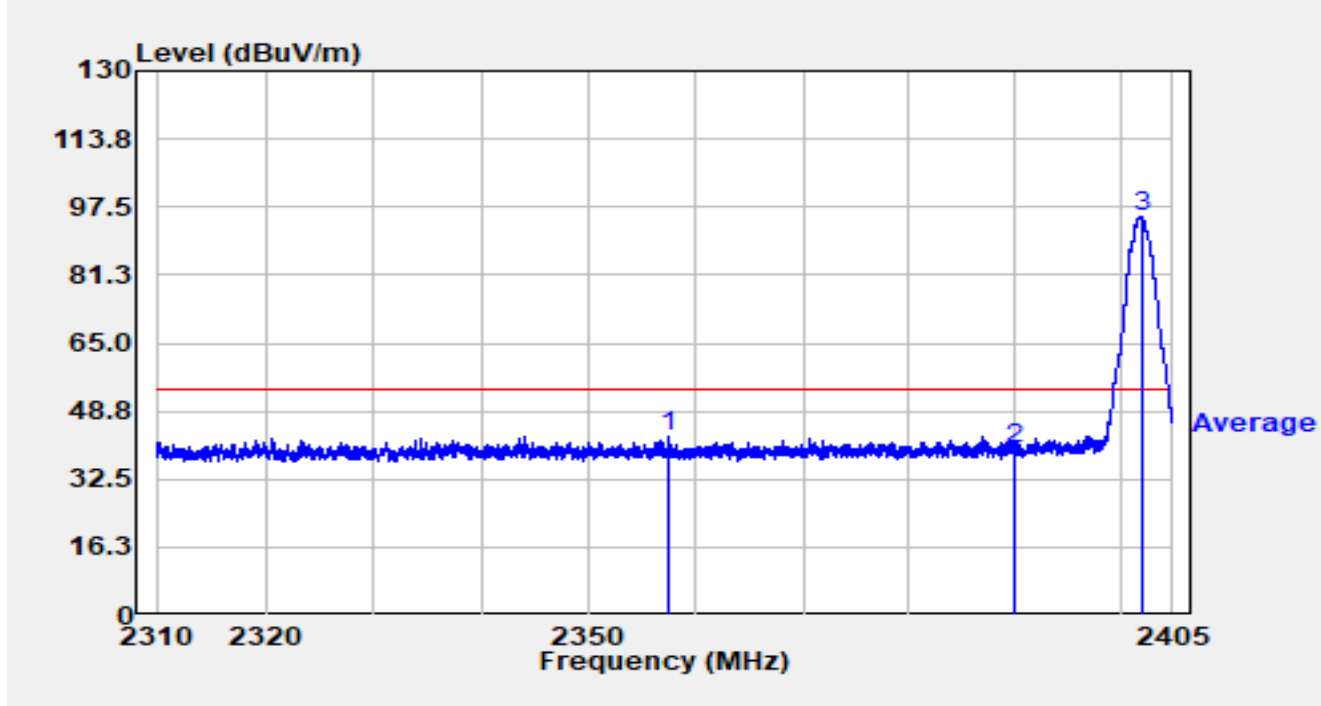


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2358.241	26.08	32.60	58.69	-15.31	74.00	Peak
2		2390.000	20.84	32.69	53.52	-20.48	74.00	Peak
3		2401.504	65.08	32.73	97.82	N/A	N/A	Peak

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	SIP-AC3	Test Date	2024-12-24
Temperature	17.3°C	Humidity	35.8%
Limit	FCC_Part15_Band Edge(3m)	Test Engineer	Mero Zhou
Factor	HF907_102861_1-18GHz	Polarity	Vertical
EUT	Segway Navimow X3 Series	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BLE_2M at 2402MHz		

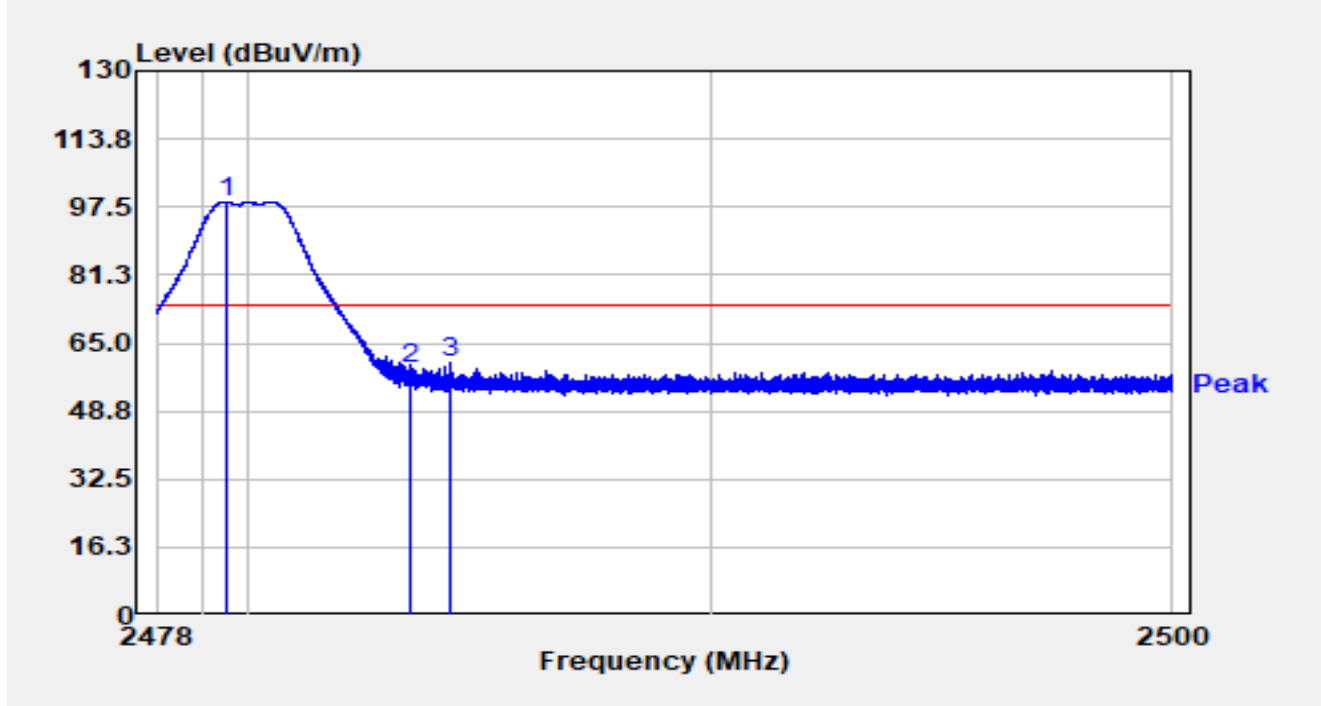


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2357.462	10.18	32.60	42.78	-11.22	54.00	Average
2		2390.000	7.02	32.69	39.71	-14.29	54.00	Average
3		2402.036	62.57	32.74	95.31	N/A	N/A	Average

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	SIP-AC3	Test Date	2024-12-24
Temperature	17.3°C	Humidity	35.8%
Limit	FCC_Part15_Band Edge(3m)	Test Engineer	Mero Zhou
Factor	HF907_102861_1-18GHz	Polarity	Horizontal
EUT	Segway Navimow X3 Series	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BLE_2M at 2480MHz		

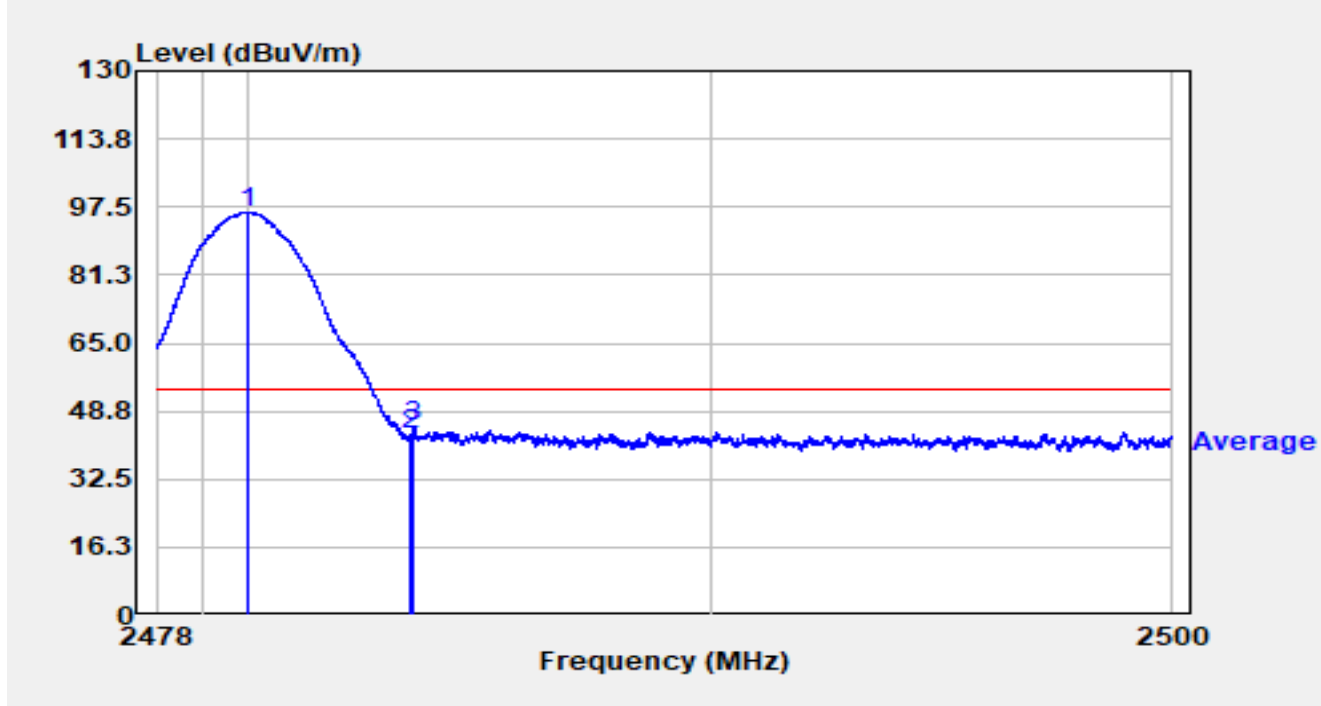


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2479.492	65.73	33.11	98.85	N/A	N/A	Peak
2		2483.500	25.84	33.13	58.97	-15.03	74.00	Peak
3	*	2484.340	27.17	33.13	60.30	-13.70	74.00	Peak

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	SIP-AC3	Test Date	2024-12-24
Temperature	17.3°C	Humidity	35.8%
Limit	FCC_Part15_Band Edge(3m)	Test Engineer	Mero Zhou
Factor	HF907_102861_1-18GHz	Polarity	Horizontal
EUT	Segway Navimow X3 Series	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BLE_2M at 2480MHz		

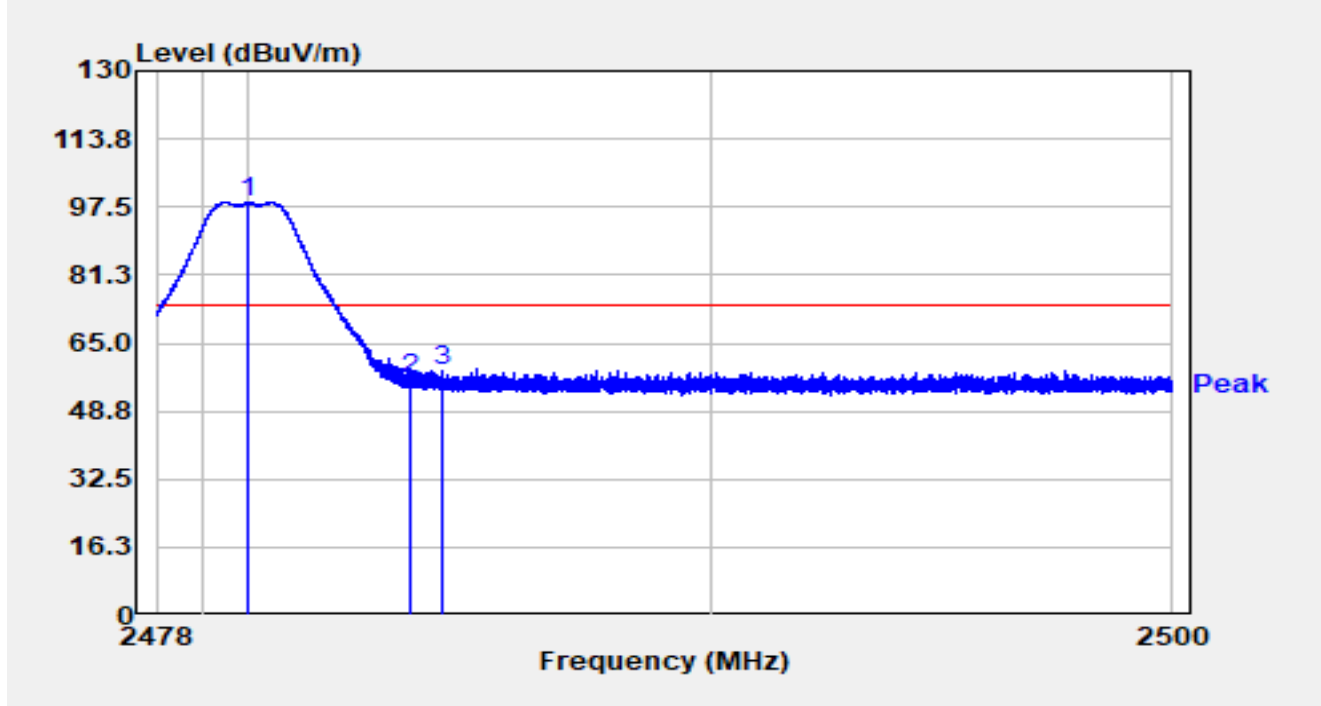


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2479.978	63.25	33.11	96.37	N/A	N/A	Average
2		2483.500	10.06	33.13	43.20	-10.80	54.00	Average
3	*	2483.544	11.93	33.13	45.07	-8.93	54.00	Average

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	SIP-AC3	Test Date	2024-12-24
Temperature	17.3°C	Humidity	35.8%
Limit	FCC_Part15_Band Edge(3m)	Test Engineer	Mero Zhou
Factor	HF907_102861_1-18GHz	Polarity	Vertical
EUT	Segway Navimow X3 Series	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BLE_2M at 2480MHz		

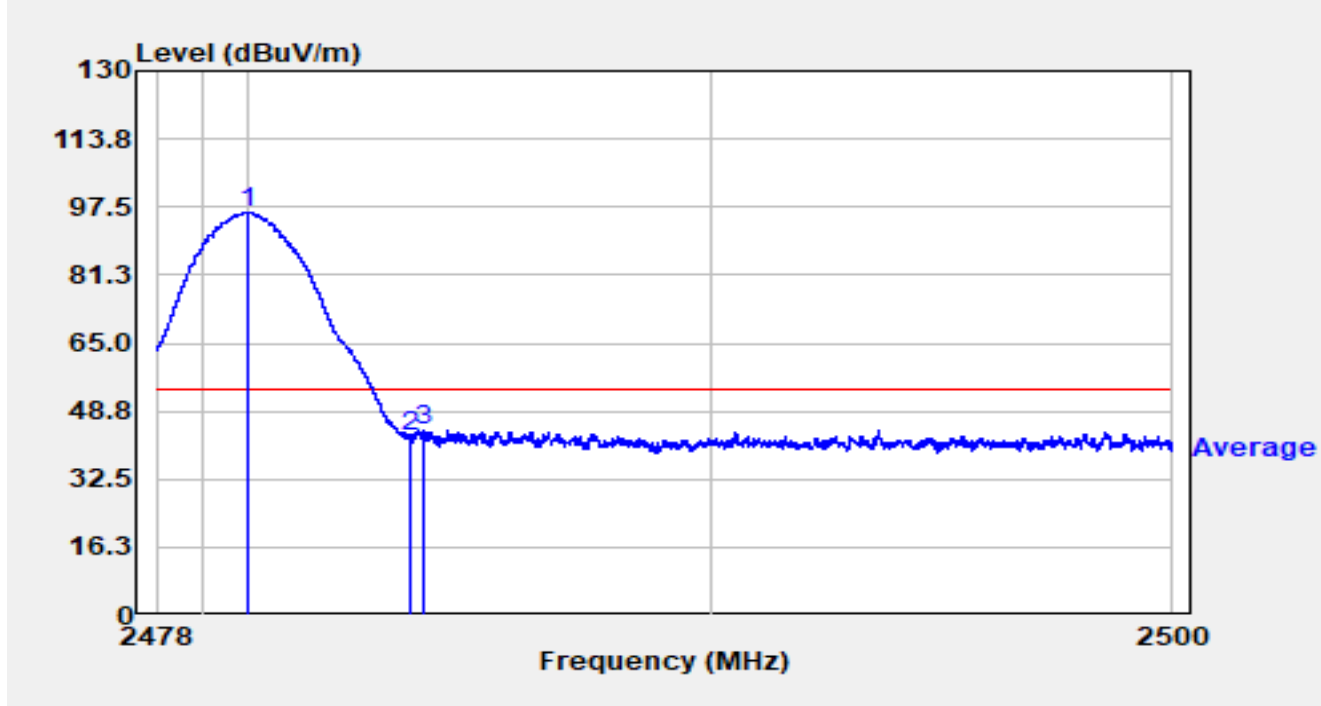


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2479.984	65.48	33.11	98.59	N/A	N/A	Peak
2		2483.500	23.32	33.13	56.45	-17.55	74.00	Peak
3	*	2484.145	25.26	33.13	58.39	-15.61	74.00	Peak

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	SIP-AC3	Test Date	2024-12-24
Temperature	17.3°C	Humidity	35.8%
Limit	FCC_Part15_Band Edge(3m)	Test Engineer	Mero Zhou
Factor	HF907_102861_1-18GHz	Polarity	Vertical
EUT	Segway Navimow X3 Series	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BLE_2M at 2480MHz		



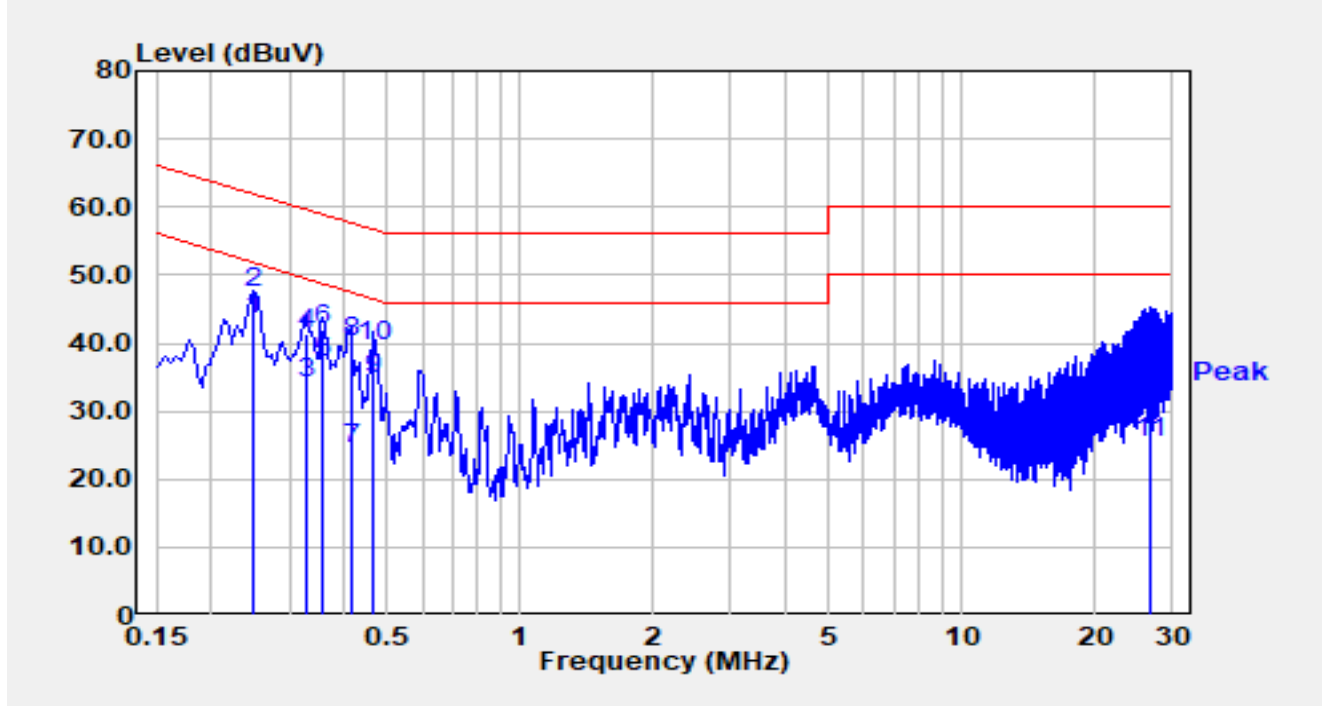
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2479.998	63.07	33.11	96.19	N/A	N/A	Average
2		2483.500	9.36	33.13	42.50	-11.50	54.00	Average
3	*	2483.790	11.04	33.13	44.17	-9.83	54.00	Average

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

A.8 AC Conducted Emissions Test Result

Site	SIP-SR2	Test Date	2024-12-24
Temperature	17.2°C	Humidity	37.1%
Limit	FCC Part15C_CE_ Mains	Test Engineer	Henry Wang
Factor	SIP-SR2-ENV216_101684_Fitter off	Polarity	Line
EUT	Segway Navimow X3 Series	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BLE_1M at 2440MHz		

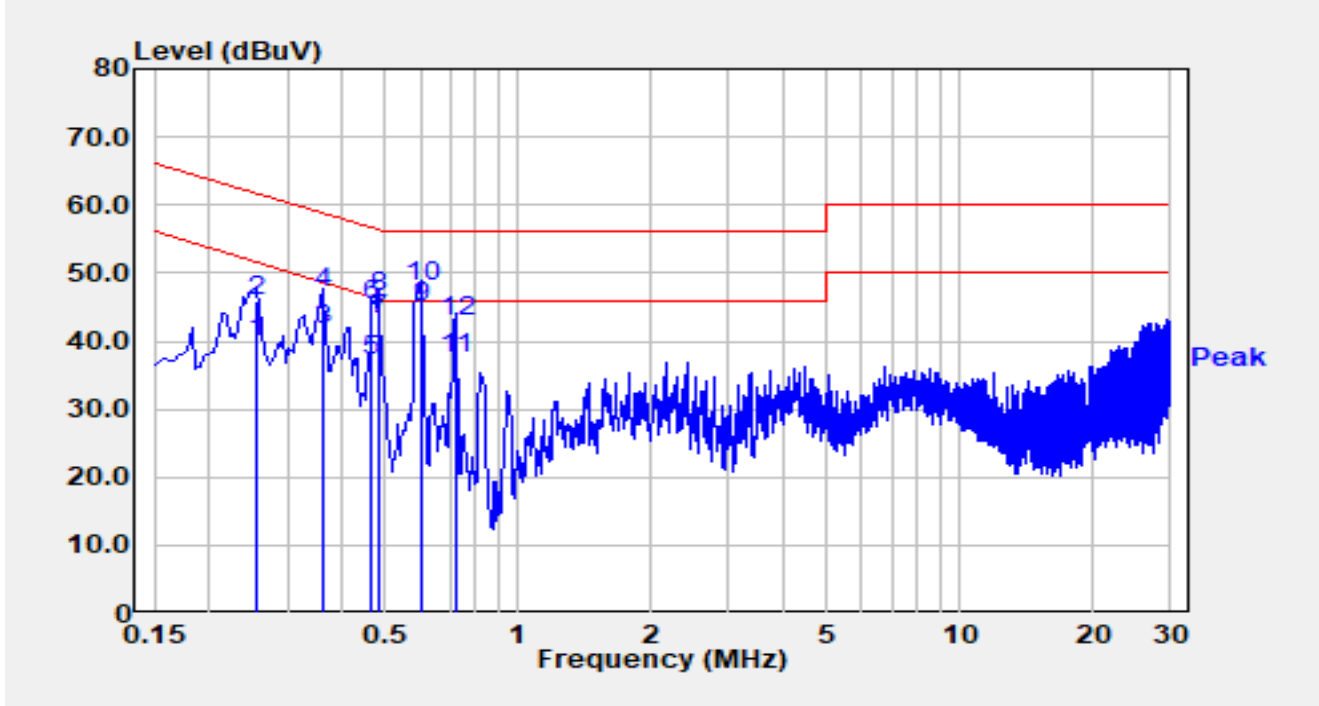


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB)	Measurement (dBμV)	Margin (dB)	Limit (dBμV)	Detector
1	*	0.250	33.63	9.75	43.38	-8.38	51.76	Average
2		0.250	37.58	9.75	47.33	-14.42	61.76	QP
3		0.326	24.19	9.78	33.97	-15.58	49.55	Average
4		0.326	31.69	9.78	41.47	-18.08	59.55	QP
5		0.358	27.37	9.77	37.14	-11.63	48.78	Average
6		0.358	32.21	9.77	41.99	-16.79	58.78	QP
7		0.414	14.73	9.79	24.52	-23.05	47.57	Average
8		0.414	30.41	9.79	40.20	-17.37	57.57	QP
9		0.466	24.88	9.79	34.67	-11.91	46.59	Average
10		0.466	29.80	9.79	39.59	-16.99	56.59	QP
11		26.724	15.13	10.30	25.43	-24.57	50.00	Average
12		26.724	27.42	10.30	37.72	-22.28	60.00	QP

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB) = LISN Factor (dB) + Cable Loss (dB).
3. Measurement (dB μ V) = Reading (dB μ V) + C.F (dB).

Site	SIP-SR2	Test Date	2024-12-24
Temperature	17.2°C	Humidity	37.1%
Limit	FCC Part15C_CE_ Mains	Test Engineer	Henry Wang
Factor	SIP-SR2-ENV216_101684_Fitter off	Polarity	Neutral
EUT	Segway Navimow X3 Series	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BLE_1M at 2440MHz		



No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB)	Measurement (dBμV)	Margin (dB)	Limit (dBμV)	Detector
1		0.254	30.24	9.72	39.96	-11.66	51.63	Average
2		0.254	36.04	9.72	45.76	-15.86	61.63	QP
3		0.362	31.96	9.73	41.69	-6.99	48.68	Average
4		0.362	37.28	9.73	47.01	-11.67	58.68	QP
5		0.466	27.25	9.74	36.99	-9.59	46.59	Average
6		0.466	35.58	9.74	45.32	-11.26	56.59	QP
7		0.482	33.42	9.74	43.16	-3.15	46.30	Average
8		0.482	36.73	9.74	46.47	-9.84	56.30	QP
9	*	0.602	35.09	9.74	44.83	-1.17	46.00	Average
10		0.602	38.39	9.74	48.13	-7.87	56.00	QP
11		0.722	27.69	9.74	37.43	-8.57	46.00	Average
12		0.722	33.12	9.74	42.86	-13.14	56.00	QP

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB) = LISN Factor (dB) + Cable Loss (dB).
3. Measurement (dB μ V) = Reading (dB μ V) + C.F (dB).

Appendix B - Test Setup Photograph

Refer to “2411RSU003-UT” file.

Appendix C - EUT Photograph

Refer to “2411RSU003-UE” file.

The End
