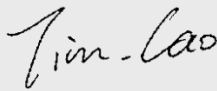
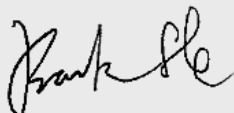


Test report No:
25B0547R.702

TEST REPORT

Product Name	LED lamp
Trademark	PHILIPS, hue, SIGNIFY
Model and /or type reference	9290042954
FCC ID	2AGBW9290042954X
IC	20812-42954X
Applicant's name / address	Signify (China) Investment Co., Ltd Building No.9, Lane 888, Tianlin Road, Minhang district, 200233, Shanghai, China
Test method requested, standard	47 CFR FCC Part 15 (Section 15.247) RSS-Gen Issue 5 Amendment 2 RSS-247 Issue 4 ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
Verdict Summary	IN COMPLIANCE
Documented by (name / position & signature)	Tim Cao/ Project Manager 
Approved by (name / position & signature)	Frank He/ Technical Manager 
Date of issue	2026-01-28
Report Version	V1.0
Report template No.	Template_FCC Part 15C-RF-V1.0

INDEX

	page
General conditions	4
Document History	5
Test Summary	6
Used Equipment.....	7
Uncertainty	10
1 General Information	11
2 Description of Test Setup.....	12
3 Verdict summary section.....	13
3.1 Standards	13
3.2 Deviation(s) from the Standard(s) / Test Specification(s).....	13
3.3 Power setting in test	14
4 Test Items Of Limit/Setup/Procedure.....	15
4.1 DTS Bandwidth	15
4.1.1 Limit	15
4.1.2 Test Setup	15
4.1.3 Test Procedure	15
4.2 Occupied Channel Bandwidth	16
4.2.1 Limit	16
4.2.2 Test Setup	16
4.2.3 Test Procedure	16
4.3 Maximum Conducted Output Power.....	17
4.3.1 Limit	17
4.3.2 Test Setup	17
4.3.3 Test Procedure	18
4.4 Maximum Power Spectral Density.....	19
4.4.1 Limit	19
4.4.2 Test Setup	19
4.4.3 Test Procedure	19
4.5 Band Edge Measurements	20
4.5.1 Limit	20
4.5.2 Test Setup	20
4.5.3 Test Procedure	20
4.6 Conducted Spurious Emission	21
4.6.1 Limit	21

4.6.2	Test Setup	21
4.6.3	Test Procedure	21
4.7	Duty cycle	22
4.7.1	Limit	22
4.7.2	Test Setup	22
4.7.3	Test Procedure	22
4.8	Emissions in Restricted Bands	23
4.8.1	Limit	23
4.8.2	Test Setup	25
4.8.3	Test Procedure	26
4.9	AC Power Line Conducted Emission.....	27
4.9.1	Limit	27
4.9.2	Test Setup	27
4.9.3	Test Procedure	27
4.10	Antenna Requirement.....	28
4.10.1	Limit:	28
4.10.2	Antenna Connector Construction:	28
5	Test setup photo and EUT Photo	28
6	Test Result.....	29
	Appendix A: DTS Bandwidth.....	29
	Appendix B: Occupied Channel Bandwidth	31
	Appendix C: Maximum conducted output power	33
	Appendix D: Maximum power spectral density.....	34
	Appendix E: Band edge measurements	36
	Appendix F Conducted Spurious Emission	44
	Appendix G: Duty Cycle.....	50
	Appendix H: Emissions in Restricted Bands.....	52
	Appendix I: AC Power Line Conducted Emission	60

COMPETENCES AND GUARANTEES

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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GENERAL CONDITIONS

Test Locatio	No. 99, Hongye Road, Suzhou Industrial Park Suzhou, 215006, P.R. China
Test Facility	A2LA (Certificate No. 3235.01) CNAS (Certificate No. L5313) FCC - Designation Number: CN1199 Test Firm Registration Number: 566524 ISED - CAB identifier: CN0040 IC#: 4075B
Date (receive sample)	Nov. 19, 2025
Date (start test)	Nov. 23, 2025
Date (finish test)	Dec. 08, 2025

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or Competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA.
5. The measurement result is considered in conformance with the requirement if it is within the prescribed limit, it is not necessary to account the uncertainty associated with the measurement result.



DOCUMENT HISTORY

Report No.	Version	Description	Issued Date
25B0547R.702	V1.0	Initial issue of report.	2026-01-28

TEST SUMMARY

Requirement – Test Item of FCC	Standard(s)	Verdict
20dB Emission Bandwidth	FCC 15.247(a)(2)	PASS
Maximum conducted output power	15.247 (b)(3)	PASS
Maximum power spectral density	FCC 15.247(e)	PASS
Band edge measurements	FCC 15.247(d) FCC 15.205 FCC 15.209	PASS
Conducted Spurious Emission	FCC 15.247(d), FCC 15.209	PASS
Duty cycle	ANSI C63.10:2013	PASS
Emissions in Restricted Bands	FCC 15.205 FCC 15.209	PASS
AC Power Line Conducted Emission	FCC 15.207	PASS
Antenna Requirement	FCC 15.203	PASS

Requirement – Test case of ISED	Standard(s)	Verdict
DTS Bandwidth	RSS-Gen Issue 5 A2 Paragraph 6.7 RSS-247 Issue 4 Paragraph 6.3.1(a)	PASS
99% Emission Bandwidth	RSS-Gen Issue 5 A2 Paragraph 6.7 RSS-247 Issue4 Clause 6.3.1(a)	PASS
Maximum conducted output power	RSS-247 Issue4 Clause 6.3.2	PASS
Maximum power spectral density	RSS-247 Issue4 Clause 6.3.1(b)	PASS
Band edge measurements	RSS-Gen Issue5 A2 Clause 8.9, 8.10	PASS
Conducted Spurious Emission	RSS-247 Issue4 Clause 6.6	PASS
Duty cycle	ANSI C63.10:2020	PASS
Emissions in Restricted Bands	RSS-Gen Issue5 A2 Clause 8.9, 8.10	PASS
AC Power Line Conducted Emission	RSS-Gen Issue5 A2 Clause 8.8	PASS
Antenna Requirement	RSS-Gen Issue5 A2 Clause 6.8	PASS

USED EQUIPMENT

Conducted Test/ TR8

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Version	Software version
Wireless Connectivity Tester	R&S	CMW 270	102593	2025.05.10	2026.05.09	V 4.0.60	N/A
Coaxial Cable	N/A	N/A	2477	2025.06.10	2026.06.09	N/A	N/A
Coaxial Cable	N/A	N/A	2478	2025.06.10	2026.06.09	N/A	N/A
High and low temperature and fast temperature change test box	ASTUOD	ASTD-FBT-225K	N/A	2025.04.13	2026.04.12	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-8S	RF08	2025.06.17	2026.06.16	N/A	N/A
Test system							
Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Version	Software version
MAX Signal Analyzer	Keysight	N9010A	MY48030494	2025.09.20	2026.09.19	A.14.03	N/A
RF Control Unit	Tonscend	JS0806-2	22G8060594	2025.01.26	2026.01.25	N/A	N/A
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY61252529	2025.03.23	2026.03.22	B.01.96	N/A
Frequency extender for EXG or MXG	Keysight	N5182BX07	MY59362500	2025.03.23	2026.03.22	N/A	N/A
EXG-B MW Analog Signal Generator	Keysight	N5173B	MY61252566	2025.05.10	2026.05.09	B.01.95	N/A
Test Software	Tonscend	TS1120	JS1120-3	N/A	N/A	N/A	V3.0.22

AC Power Line Conducted Emission / TR1

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Version	Software version
Shielding room	Quietek	4.9m*4m*3m	TR1	2023.03.04	2028.03.03	N/A	N/A
EMI Test Receiver	R&S	ESR7	102086	2025.01.11	2026.01.10	3.36 SP2	N/A
Two-Line V-Network	R&S	ENV216	101189	2025.05.10	2026.05.09	N/A	N/A
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	2025.03.16	2026.03.15	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-1909	THM-012	2025.04.30	2026.04.29	N/A	N/A
Dekra test software	Dekra	N/A	N/A	N/A	N/A	N/A	3

Radiated Emission(30MHz-1GHz) / AC6

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Version	Software version
Anechoic chamber	Quietek	9m*5.5m*5.5m	AC6	2024.06.30	2029.06.29	N/A	N/A
Signal Analyzer	Agilent	N9010A	MY55370495	2025.09.14	2026.09.13	A.18.17	N/A
Loop Antenna	R&S	HFH2-Z2E	101149	2025.04.16	2026.04.15	N/A	N/A
DRG Horn Antenna	RFSPIN	DRH18-E	CE2C07A18EN	2024.12.07	2025.12.06	N/A	N/A
Broad-Band Horn Antenna	SCHWARZBECK	BBHA 9170	750	2024.11.24	2025.11.23	N/A	N/A
Broad-Band Horn Antenna	SCHWARZBECK	BBHA 9170	750	2025.11.19	2026.11.18	N/A	N/A
Pre-Amplifier	Schwarzbeck	BBV 9721	'00114	2025.05.17	2026.05.16	N/A	N/A
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9168	1231	2025.05.28	2026.05.27	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-8S	RF07	2025.06.17	2026.06.16	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-8S	RF04	2025.06.17	2026.06.16	N/A	N/A
Pre-amplifier	Tonscend	TAP01008028	806JSAP041204251019	2025.05.17	2026.05.16	N/A	N/A
Pre-amplifier	Tonscend	TAP01018048S	806JSAP040204251009	2025.05.17	2026.05.16	N/A	N/A
Wideband Radio Communication Tester	R&S	CMW 500	170870	2025.05.10	2026.05.09	X4.0.62.11	N/A
Radio Communication Test Station	Anritsu	MT8000A	6272458317	2024.12.14	2025.12.13	N/A	N/A
Radio Communication Analyzer	Anritsu	MT8821C	6262297906	2024.12.14	2025.12.13	10.10.13.1	N/A

Test Software	Tonscend	JS36	JS36-RSE	N/A	N/A	N/A	5.0.0
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Radiated Emission(9kHz-30MHz) / AC2

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Version	Software version
Anechoic chamber	Quietek	9m*6m*6m	AC2	2024.07.07	2029.07.06	N/A	N/A
EMI Test Receiver	R&S	ESCI	100573	2025.01.11	2026.01.10	4.42 SP2	N/A
Loop Antenna	R&S	HFH2-Z2E	101149	2025.04.16	2026.04.15	N/A	N/A
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2025.03.24	2026.03.23	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-1909	THM-021	2025.04.30	2026.04.29	N/A	N/A
Dekra test software	Dekra	N/A	N/A	N/A	N/A	N/A	3

UNCERTAINTY

Uncertainties have been calculated according to the DEKRA internal document. The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95% .

Test item	Uncertainty
AC Power Line Conducted Emission	9kHz~150kHz: 2.60 dB 150kHz~30MHz: 2.90 dB
Peak Power Output	± 1.3 dB
Radiated Emission(30MHz~1GHz)	Horizontal: 30MHz~200MHz: 3.5 dB 200MHz~1GHz: 3.6 dB Vertical: 30MHz~200MHz: 3.6 dB 200MHz~1GHz: 3.8 dB
Radiated Emission(1GHz~26.5GHz)	Horizontal: 1GHz~18GHz: 5.0 dB Vertical: 1GHz~18GHz: 4.8 dB Horizontal: 18GHz~26.5GHz: 5.3 dB Vertical: 18GHz~26.5GHz: 4.9 dB
RF antenna conducted test	± 1.3 dB
Radiated Emission Band Edge	± 3.9 dB
DTS Bandwidth	± 1.0 kHz
Occupied Bandwidth	± 1.0 kHz
Power Density	± 1.3 dB

1 GENERAL INFORMATION

Product Name	LED lamp
Model No.	9290042954
Trademark	PHILIPS, hue, SIGNIFY
FCC ID	2AGBW9290042954X
IC	20812-42954X
Manufacturer	Signify (China) Investment Co., Ltd
Manufacturer Address	Building No.9, Lane 888, Tianlin Road, Minhang district, 200233, Shanghai, China
Power supply	110-130 Vac
Wireless specification	IEEE 802.15.4
Operating frequency range(s)	2405~2480MHz
Type of Modulation	O-QPSK
Data Rate	250kbps
Channel Spacing	5MHz
Antenna type	PCB
Antenna Gain	0.7 dBi

Channel List:

Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
11	2405 MHz	12	2410 MHz	13	2415 MHz	14	2420 MHz
15	2425 MHz	16	2430 MHz	17	2435 MHz	18	2440 MHz
19	2445 MHz	20	2450 MHz	21	2455 MHz	22	2460 MHz
23	2465 MHz	24	2470 MHz	25	2475 MHz	26	2480 MHz

Remark:

As above information is provided and confirmed by the applicant. DEKRA is not liable to the accuracy, suitability, reliability or/and integrity of the information.

2 DESCRIPTION OF TEST SETUP

Auxiliary equipment	Type / Version	Manufacturer	Supplied by
(1) Notebook	Think pad x220	Lenovo	Adapter
(2) USB Control Cable	N/A	N/A	N/A
(3) USB Control Cable	N/A	N/A	N/A
software	Type / Version	Manufacturer	Supplied by
HueApprobationTool	N/A	N/A	N/A

Accessories Information	Cable		
	Length used during test [m]	Attached during test	Shielded
(2)USB Control Cable	1	☒	☒
(3)USB Control Cable	8	☒	☒

3 VERDICT SUMMARY SECTION

This chapter presents an overview of standards and results. Refer to the next chapters for details of measured test results and applied test levels.

3.1 Standards

Standard	Year	Description
CFR 47, FCC Part 15 C	2024	Operation within the bands 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz.
RSS-Gen Issue5 Amendment2	2021	General Requirements for Compliance of Radio Apparatus
RSS-247 Issue4	2025	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices
ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024	2024	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
KDB 558074 D01V05r02	2019	Guidance for performing compliance measurements on Digital Transmission System (DTS) operating under section 15.247

3.2 Deviation(s) from the Standard(s) / Test Specification(s)

The following deviation(s) was / were made from the published requirements of the listed standards: N/A.

(Please define the deviations from the standard(s) if applicable)

3.3 Power setting in test

Mode	Channel	Frequency (MHz)	Power setting
IEEE 802.15.4	11	2405	10
	18	2440	10
	26	2480	10

4 TEST ITEMS OF LIMIT/SETUP/PROCEDURE

4.1 DTS Bandwidth

VERDICT: PASS

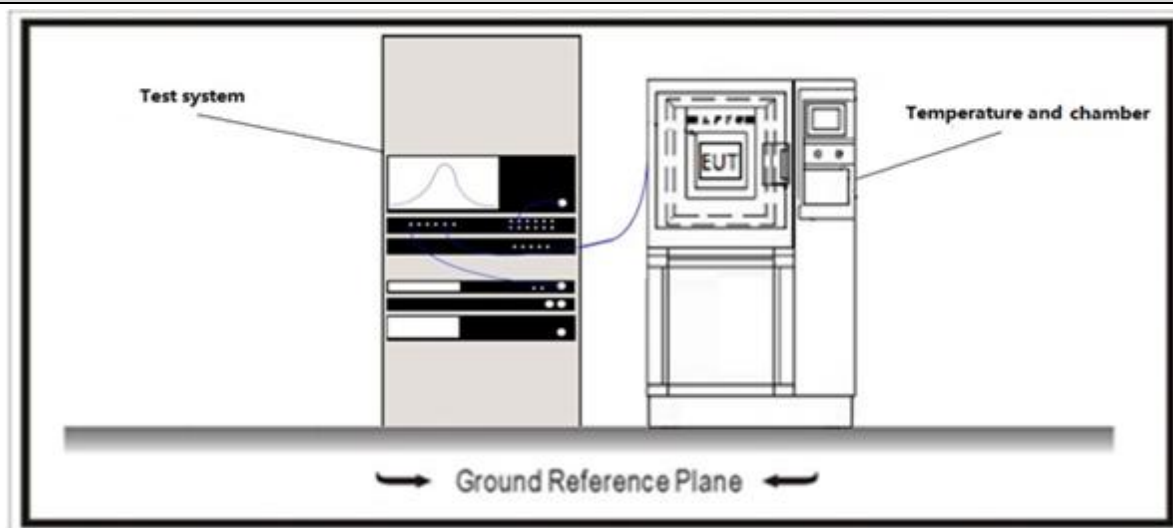
4.1.1 Limit

Standard

FCC Part 15 Subpart C Paragraph 15.247 (a)(2); RSS-247 Issue4 Clause 6.3.1(a)

Systems using digital modulation techniques operate in the 2400-2483.5 MHz. The minimum 6 dB bandwidth shall be at least 500 kHz

4.1.2 Test Setup



4.1.3 Test Procedure

	Reference Rule		Chapter	Description
☒	ANSI C63.10		11.8	DTS bandwidth
	☒	ANSI C63.10	11.8.1	Option 1
	☐	ANSI C63.10	11.8.2	Option 2

4.2 Occupied Channel Bandwidth

VERDICT: PASS

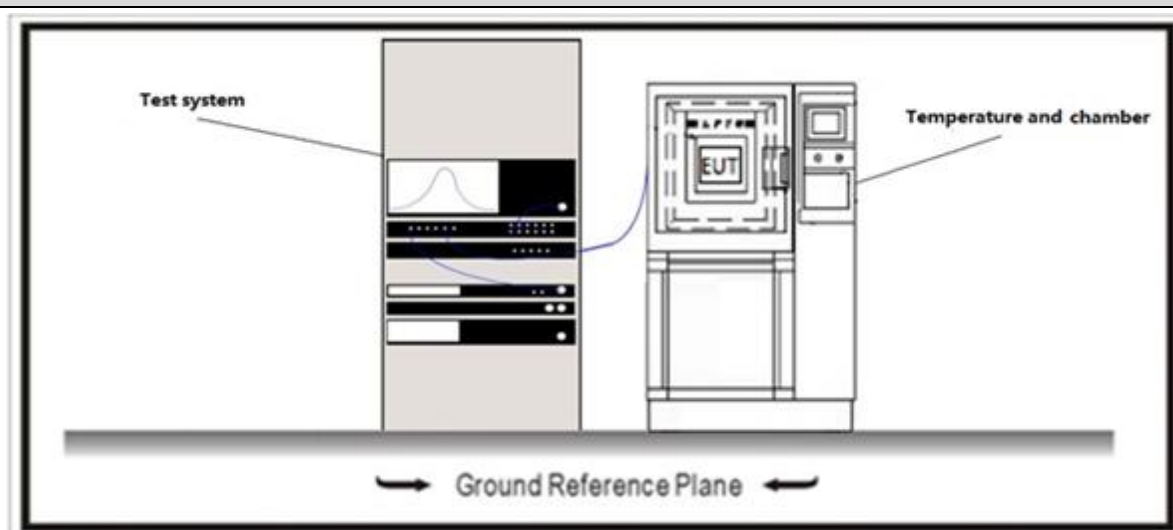
4.2.1 Limit

Standard

RSS-Gen Issue 5 Paragraph 6.7

The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs

4.2.2 Test Setup



4.2.3 Test Procedure

	Reference Rule	Chapter	Description
☒	ANSI C63.10	6.9	Occupied bandwidth tests
☐	ANSI C63.10	6.9.2	Option 1
☒	ANSI C63.10	6.9.3	Option 2

4.3 Maximum Conducted Output Power

VERDICT: PASS

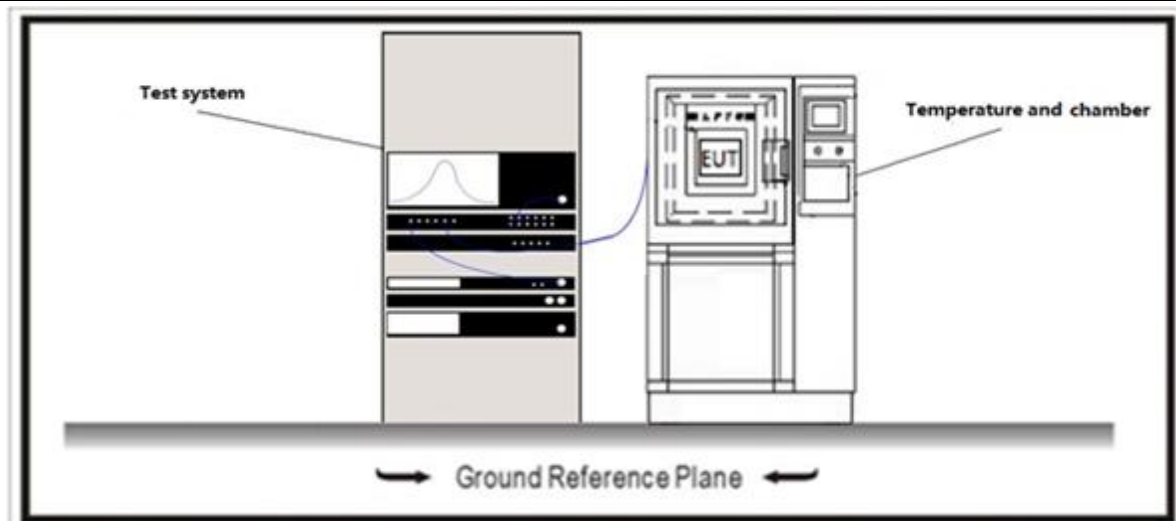
4.3.1 Limit

Standard		FCC Part 15 Subpart C Paragraph 15.247 (b)(3); RSS-247 Issue4 Clause 6.3.2.
☒	GTX < 6dBi	Pout≤30dBm
☐	GTX > 6dBi	
☐	Non-Fix point-point	Pout≤30-(GTX -6)
☐	Fix point-point	Pout≤30-[(GTX-6)]/3
☐	Point-to-multipoint	Pout≤30-(GTX-6)
☐	Overlap Beams	Pout≤30-[(GTX-6)]/3
☐	Aggregate power transmitted simultaneously on all beams	Pout≤30-[(GTX-6)]/3
☐	single directional beam	Pout≤30-[(GTX-6)]/3+8dB

Note 1 : GTX directional gain of transmitting antennas.

Note 2 : Pout is maximum peak conducted output power .

4.3.2 Test Setup



4.3.3 Test Procedure

	References Rule		Chapter	Description
☒	ANSI C63.10		11.9	Fundamental emission output power
	☒	ANSI C63.10		11.9.1 Maximum peak conducted output power
	☐	☐	ANSI C63.10	11.9.1.1 RBW $\geq$ DTS bandwidth
		☐	ANSI C63.10	11.9.1.2 Integrated band power method
		☒	ANSI C63.10	11.9.1.3 PKPM1 Peak power meter method
	☐	ANSI C63.10		11.9.2 Maximum conducted (average) output power
	☐	☐	ANSI C63.10	11.9.2.2 Measurement using a spectrum analyzer (SA)
		☐	ANSI C63.10	11.9.2.2.2 Method AVGSA-1(Duty cycle $\geq 98\%$)
		☐	ANSI C63.10	11.9.2.2.3 Method AVGSA-1A(Duty cycle $\geq 98\%$)
		☐	ANSI C63.10	11.9.2.2.4 Method AVGSA-2(Duty cycle $\leq 98\%$)
		☐	ANSI C63.10	11.9.2.2.5 Method AVGSA-2A(Duty cycle $\leq 98\%$)
		☐	ANSI C63.10	11.9.2.2.4 Method AVGSA-3
		☐	ANSI C63.10	11.9.2.2.5 Method AVGSA-3A
		☐	ANSI C63.10	11.9.2.3 Measurement using a power meter (PM)
		☐	ANSI C63.10	11.9.2.3.1 Method AVGPM
		☐	ANSI C63.10	11.9.2.3.2 Method AVGPM-G

4.4 Maximum Power Spectral Density

VERDICT: PASS

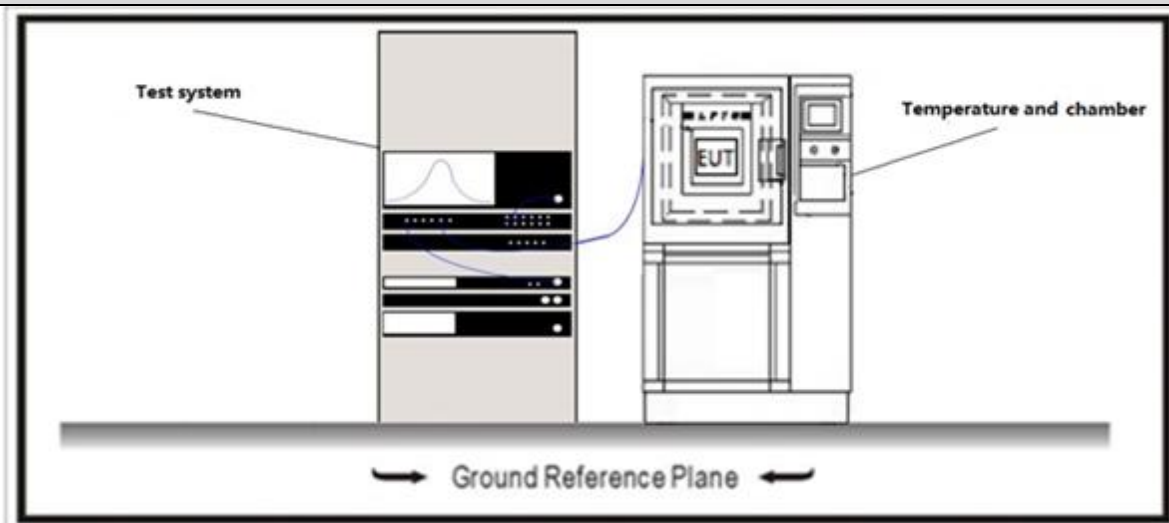
4.4.1 Limit

Standard

 FCC Part 15 Subpart C Paragraph 15.247 (b)(3);
 RSS-247 Issue4 Clause 6.3.1(b).

 Power Spectral Density $\leq 8\text{dBm}/3\text{kHz}$

4.4.2 Test Setup



4.4.3 Test Procedure

	References Rule		Chapter	Description
☒	ANSI C63.10		11.10	Maximum power spectral density level in the fundamental emission
	☒	ANSI C63.10	11.10.2	Method PKPSD (peak PSD)
	☐	ANSI C63.10	11.10.3	Method AVGPSD-1(Duty cycle $\geq 98\%$)
	☐	ANSI C63.10	11.10.4	Method AVGPSD-1A(Duty cycle $\geq 98\%$)
	☐	ANSI C63.10	11.10.5	Method AVGPSD-2(Duty cycle $< 98\%$)
	☐	ANSI C63.10	11.10.6	Method AVGPSD-2A(Duty cycle $< 98\%$)
	☐	ANSI C63.10	11.10.7	Method AVGPSD-3
	☐	ANSI C63.10	11.10.8	Method AVGPSD-3A

4.5 Band Edge Measurements

VERDICT: PASS

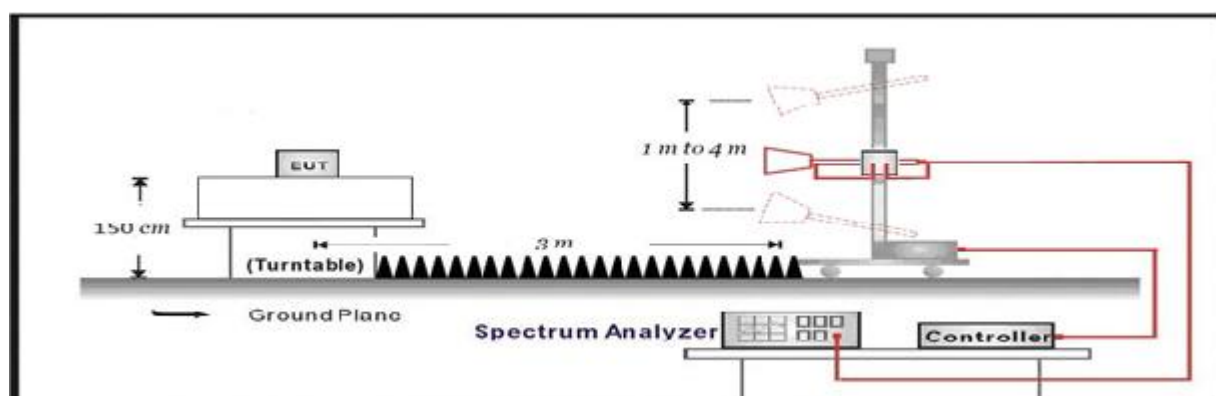
4.5.1 Limit

Standard		FCC Part 15 Subpart C Paragraph 15.247(d) , 15.209; RSS-Gen Issue5 A2 Clause 8.9		
Frequency bands (MHz)	Detector	Limit (dB μ V/m)	RBW (MHz)	Distance (m)
2310-2390	PK	74	1	3
2483.5-2500	AV	54	1	3

Note: The field strength of emissions appearing within these frequency bands shall not exceed the limits.

4.5.2 Test Setup

Above 1GHz Test Setup:



4.5.3 Test Procedure

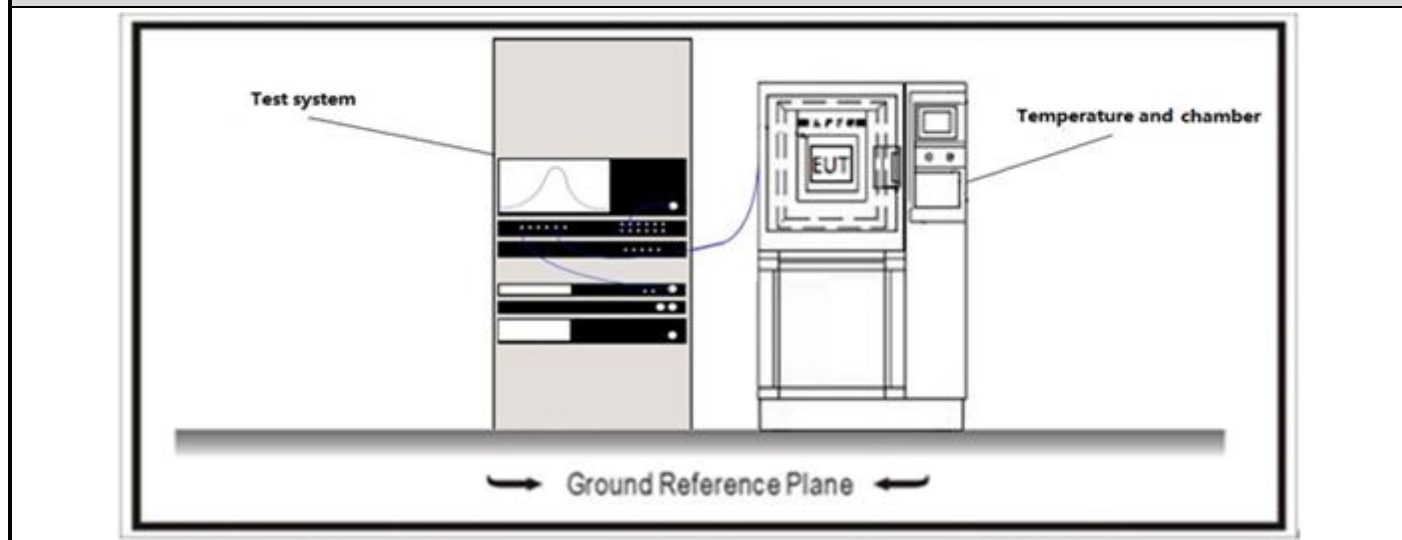
	References Rule	Chapter	Description
☒	ANSI C63.10	6.10	Band-edge testing
☒	ANSI C63.10	6.10.5	Restricted-band band-edge measurements
☐	ANSI C63.10	6.10.6	Marker-delta method
☒	ANSI C63.10	11.12	Emissions in restricted frequency bands
☒	ANSI C63.10	11.12.1	Radiated emission measurements
☒	ANSI C63.10	11.12.2.7	Radiated spurious emission test
☐	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
☐	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
☒	ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz

4.6 Conducted Spurious Emission**VERDICT: PASS****4.6.1 Limit**

Standard	FCC Part 15 Subpart C Paragraph 15.247(d); RSS-247 Issue4 Clause 6.6.
RF Output power (Detection methods)	Limit(dB)
RF Output power(Average detector)	30dBc(Note1)
RF Output power(PK detector)	20dBc(Note2)

Note 1: If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc).

Note 2: If the maximum peak conducted output power procedure was used, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc).

4.6.2 Test Setup**4.6.3 Test Procedure**

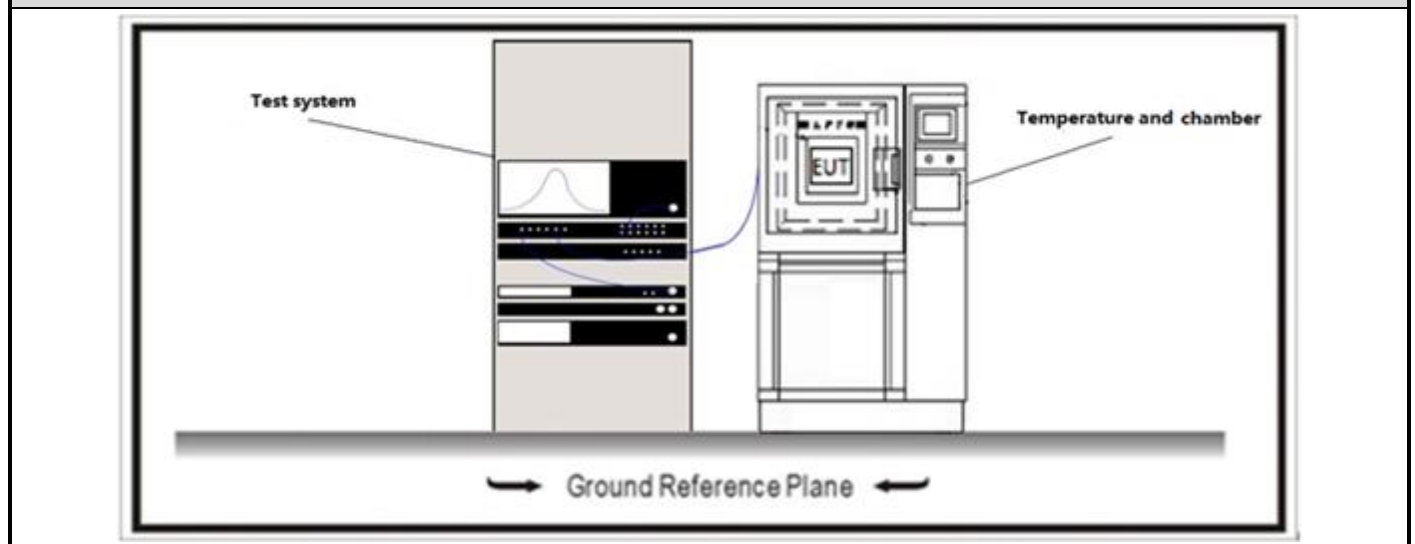
References Rule	Chapter	Description
☒ ANSI C63.10	11.11	Emissions in non-restricted frequency bands
☒ ANSI C63.10	11.11.1	General
☒ ANSI C63.10	11.11.2	Reference level measurement
☒ ANSI C63.10	11.11.3	Emission level measurement

4.7 Duty cycle	VERDICT: PASS
-----------------------	----------------------

4.7.1 Limit

N/A

4.7.2 Test Setup



4.7.3 Test Procedure

References Rule		Chapter	Description
☒	ANSI C63.10	11.6	Duty cycle (D), transmission duration (T), and maximum power control level

4.8 Emissions in Restricted Bands**VERDICT: PASS****4.8.1 Limit****Standard**

FCC Part 15 Subpart C Paragraph 15.205

Restricted Bands of operation

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
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
8.81425 – 8.81475	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	
13.36 – 13.41			

Standard

RSS-Gen Issue5 A2 Clause 8.10

Restricted Bands of operation for IC

0.090 - 0.110	13.36 - 13.41	960 - 1427	9.0 - 9.2
0.495 - 0.505	16.42 - 16.423	1435 - 1626.5	9.3 - 9.5
2.1735 - 2.1905	16.69475 - 16.69525	1645.5 - 1646.5	10.6 - 12.7
3.020 - 3.026	16.80425 - 16.80475	1660 - 1710	13.25 - 13.4
4.125 - 4.128	25.5 - 25.67	1718.8 - 1722.2	14.47 - 14.5
4.17725 - 4.17775	37.5 - 38.25	2200 - 2300	15.35 - 16.2
4.20725 - 4.20775	73 - 74.6	2310 - 2390	17.7 - 21.4
5.677 - 5.683	74.8 - 75.2	2483.5 - 2500	22.01 - 23.12
6.215 - 6.218	108 - 138	2655 - 2900	23.6 - 24.0
6.26775 - 6.26825	149.9 - 150.05	3260 - 3267	31.2 - 31.8
6.31175 - 6.31225	156.52475 - 156.52525	3332 - 3339	36.43 - 36.5
8.291 - 8.294	156.7 - 156.9	3345.8 - 3358	Above 38.6
8.362 - 8.366	162.0125 - 167.17	3500 - 4400	
8.37625 - 8.38675	167.72 - 173.2	4500 - 5150	
8.41425 - 8.41475	240 - 285	5350 - 5460	
12.29 - 12.293	322 - 335.4	7250 - 7750	
12.51975 - 12.52025	399.9 - 410	8025 - 8500	
12.57675 - 12.57725	608 - 614	--	

Restricted Band Emissions Limit

FCC Part 15 Subpart C Paragraph 15.209

Frequency (MHz)	Field strength ($\mu\text{V/m}$)	Field strength ($\text{dB}\mu\text{V/m}$)	Measurement distance (m)
0.009 - 0.49	$2400/F(\text{kHz})$	48.5 – 13.8	300 _(Note 1)
0.49 - 1.705	$24000/F(\text{kHz})$	33.8 - 23	30 _(Note 1)
1.705 - 30	30	29.5	30 _(Note 1)
30 - 88	100	40	3 _(Note 2)
88 - 216	150	43.5	3 _(Note 2)
216 - 960	200	46	3 _(Note 2)
Above 960	500	54	3 _(Note 2)

RSS-Gen Issue 5 A2 Paragraph 8.9.

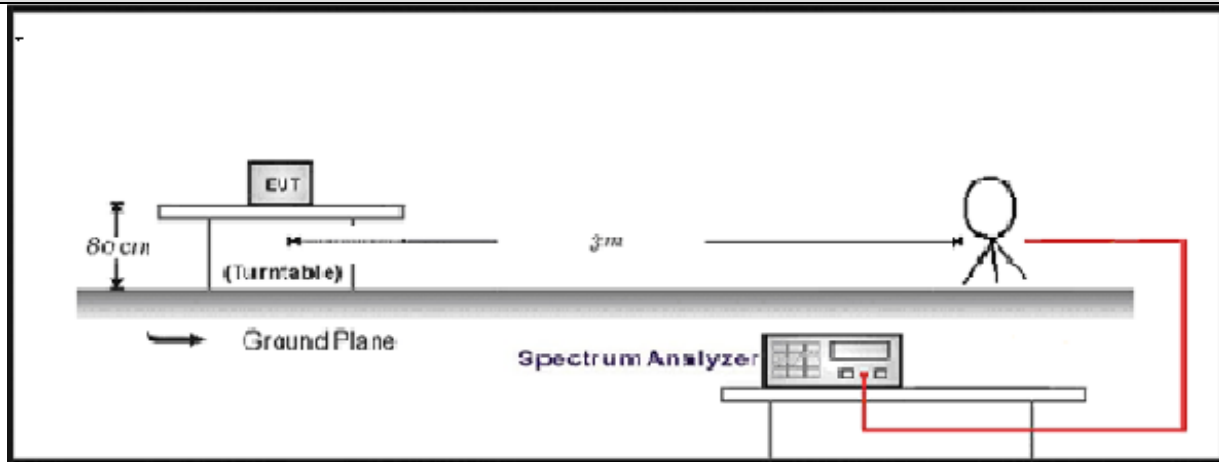
Frequency (MHz)	Field strength	Field strength ($\text{dB}\mu\text{V/m}$)	Measurement distance (m)
0.009 - 0.49	$6.37/F(\text{kHz}) \mu\text{A/m}$	48.5 – 13.8	300 _(Note 1)
0.49 - 1.705	$63.7/F(\text{kHz}) \mu\text{A/m}$	33.8 - 23	30 _(Note 1)
1.705 - 30	30 $\mu\text{V/m}$	29.5	30 _(Note 1)
30 - 88	100 $\mu\text{V/m}$	40	3 _(Note 2)
88 - 216	150 $\mu\text{V/m}$	43.5	3 _(Note 2)
216 - 960	200 $\mu\text{V/m}$	46	3 _(Note 2)
Above 960	500 $\mu\text{V/m}$	54	3 _(Note 2)

Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

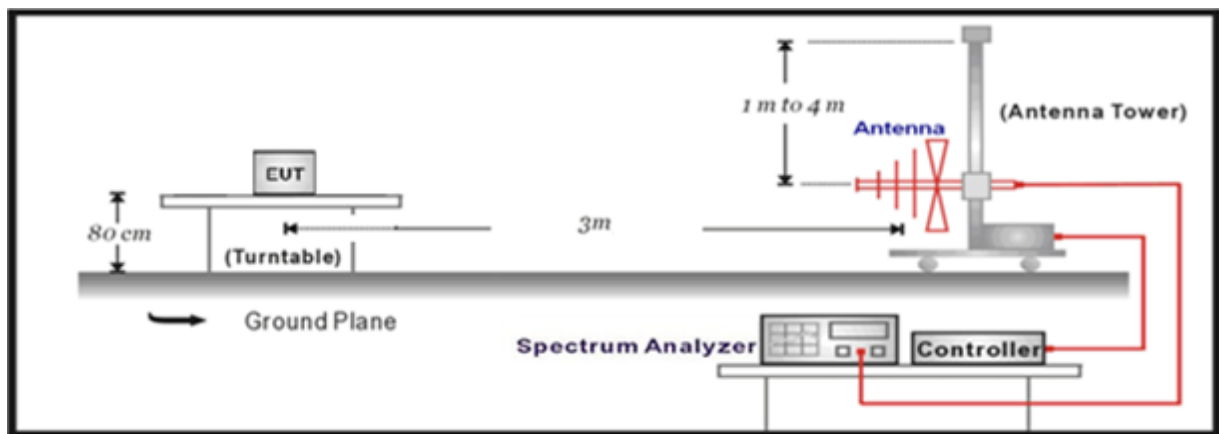
Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

4.8.2 Test Setup

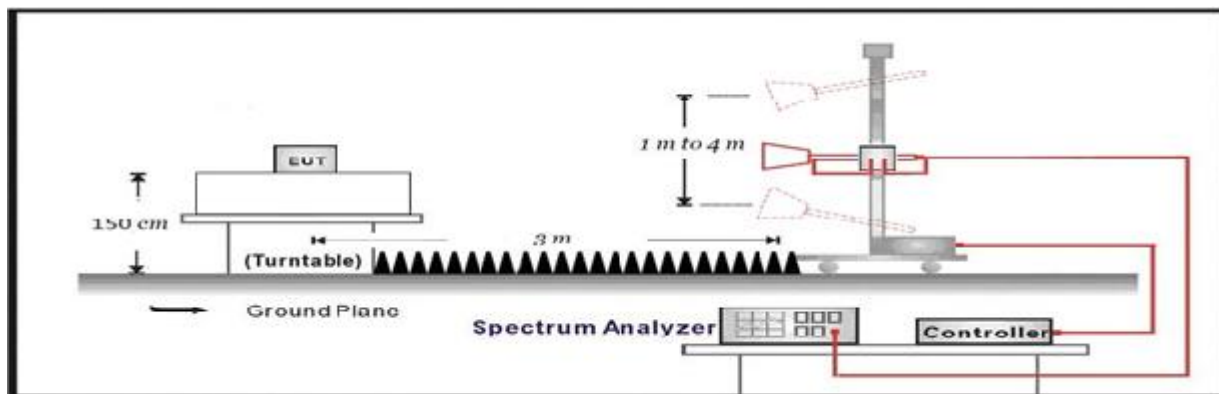
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



4.8.3 Test Procedure

	References Rule		Chapter	Description
☒	ANSI C63.10		11.12	Emissions in restricted frequency bands
	☒	ANSI C63.10	11.12.1	Radiated emission measurements
	☒	ANSI C63.10	11.12.2.7	Radiated spurious emission test
	☒	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
	☒	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
	☒	ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz

4.9 AC Power Line Conducted Emission**VERDICT: PASS****4.9.1 Limit**

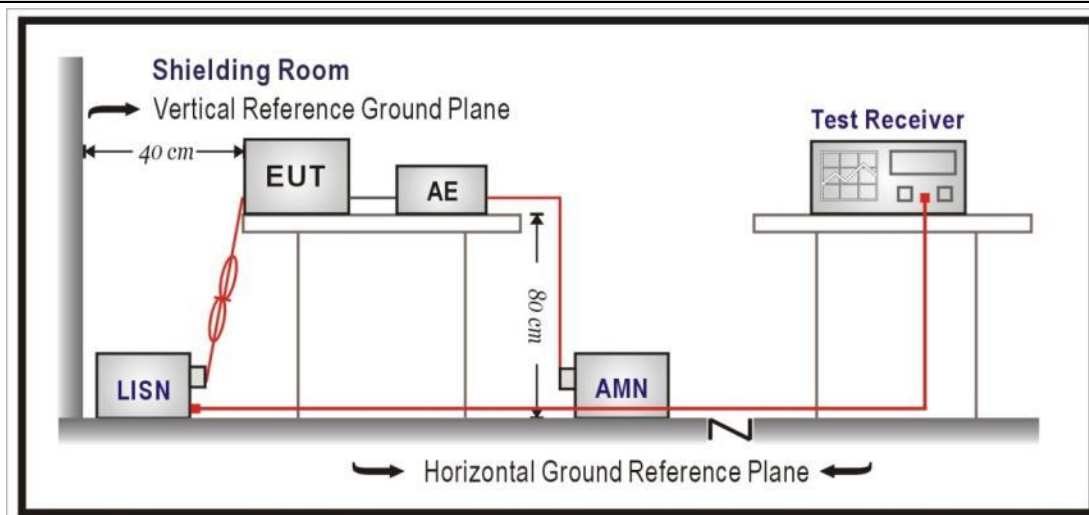
Standard	FCC Part 15 Subpart C Paragraph 15.207; RSS-Gen Issue5 A2 Clause 8.8.	
Frequency range [MHz]	Limit: QP [dB(μV) ¹⁾]	Limit: AV [dB(μV) ¹⁾]
0,15 - 0,50	66 - 56 ²⁾	56 - 46 ²⁾
0,50 - 5,0	56	46
5,0 - 30	60	50

¹⁾ At the transition frequency, the lower limit applies.

²⁾ The limit decreases linearly with the logarithm of the frequency.

NOTE 1: The exclusion band for transmitters shall be considered for transmitters operating at frequencies below 30 MHz.

NOTE 2: Where the AC output port is directly connected (or via a circuit breaker) to the AC power input port of the EUT the AC power output port need not to be tested.

4.9.2 Test Setup**4.9.3 Test Procedure**

	References Rule	Chapter	Item
☒	ANSI C63.10-2013	6.2	Standard test method for ac power-line conducted emissions from unlicensed wireless devices

4.10 Antenna Requirement**VERDICT: PASS****4.10.1 Limit:****Standard**FCC Part 15 Subpart C Paragraph 15.203;
RSS-Gen Issue 5 A2 Paragraph 6.8.

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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

4.10.2 Antenna Connector Construction:

The use of a permanently attached antenna



The antenna use of a unique coupling to the intentional radiator



The use of a nonstandard antenna jack or electrical connector

Please refer to the attached document "Internal Photograph" to show the antenna connector.

5 TEST SETUP PHOTO AND EUT PHOTO

Remark: The test setup photo and EUT Photo please see appendix.

6 TEST RESULT

Appendix A: DTS Bandwidth

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
IEEE 802.15.4	Ant1	2405	1.610	2404.210	2405.820	0.5	PASS
IEEE 802.15.4	Ant1	2440	1.750	2439.170	2440.920	0.5	PASS
IEEE 802.15.4	Ant1	2480	1.610	2479.220	2480.830	0.5	PASS



IEEE 802.15.4-Ant1-2405-PASS



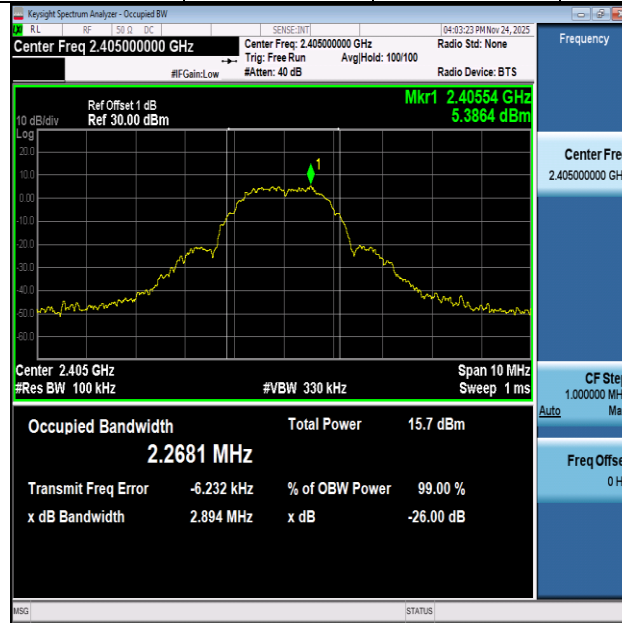
IEEE 802.15.4-Ant1-2440-PASS



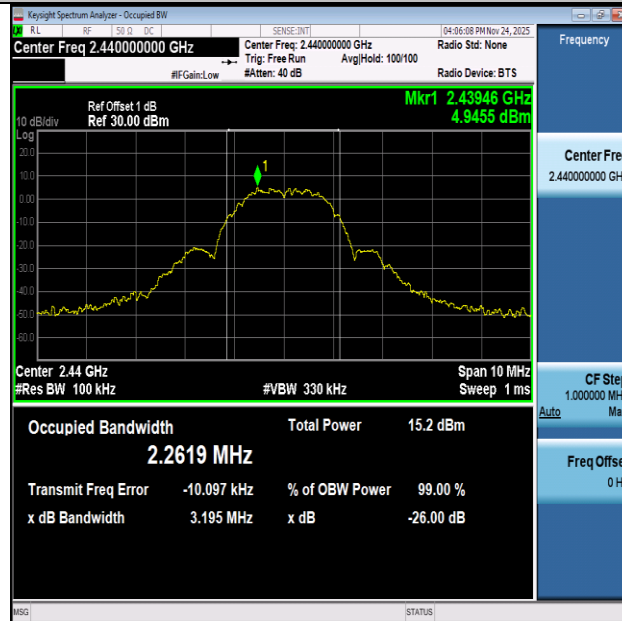
IEEE 802.15.4-Ant1-2480-PASS

Appendix B: Occupied Channel Bandwidth

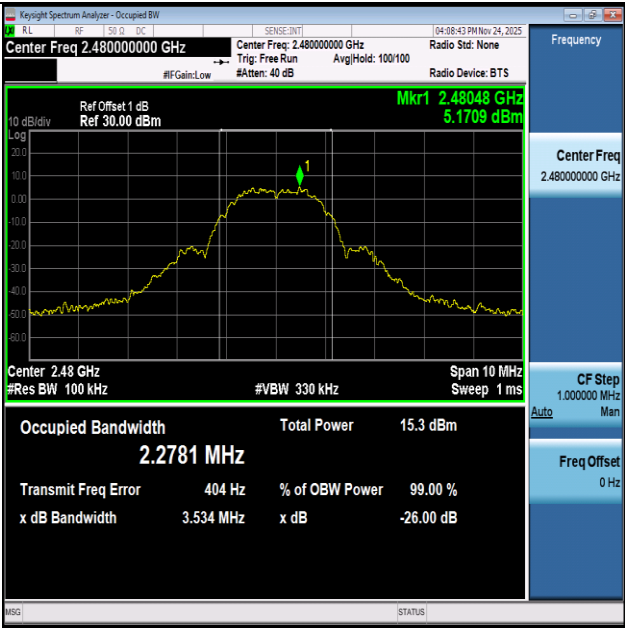
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
IEEE 802.15.4	Ant1	2405	2.2681	2403.8597	2406.1278	Within band	Pass
IEEE 802.15.4	Ant1	2440	2.2619	2438.8590	2441.1209	Within band	Pass
IEEE 802.15.4	Ant1	2480	2.2781	2478.8614	2481.1395	Within band	Pass



IEEE 802.15.4-Ant1-2405



IEEE 802.15.4-Ant1-2440



IEEE 802.15.4-Ant1-2480

Appendix C: Maximum conducted output power

Test Mode	Frequency (MHz)	Measured Power (dBm)	EIRP (dBm)	Conducted Limit(dBm)	EIRP Limit (dBm)
IEEE 802.15.4	2405	9.71	10.41	≤ 30	≤ 36
	2440	9.41	10.11	≤ 30	≤ 36
	2480	9.48	10.18	≤ 30	≤ 36

Note 1: EIRP=Measured power+Antenna gain

Note 2: The antenna gain please refer to clause 1.2

Appendix D: Maximum power spectral density

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
IEEE 802.15.4	Ant1	2405	-5.43	≤8.00	PASS
	Ant1	2440	-5.87	≤8.00	PASS
	Ant1	2480	-5.75	≤8.00	PASS



IEEE 802.15.4-Ant1-2405-PASS



IEEE 802.15.4-Ant1-2440-PASS

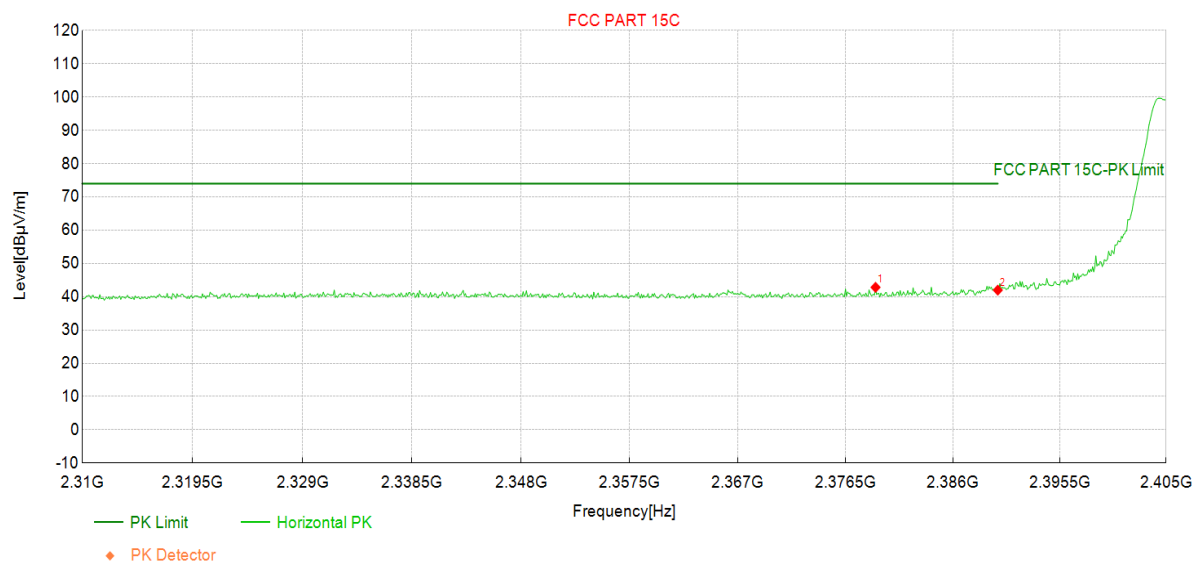


IEEE 802.15.4-Ant1-2480-PASS

Appendix E: Band edge measurements

Transmit at 2405MHz by IEEE 802.15.4

Test Graph

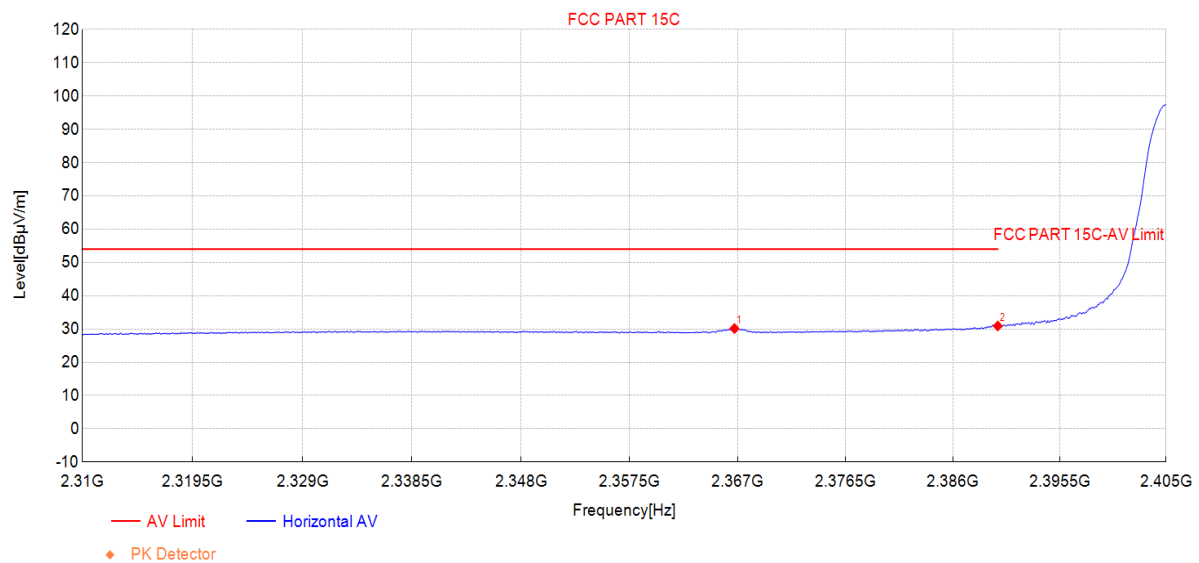


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2379.16	42.9	42.82	-0.080	74.00	31.18	PK	Horizo	PASS
2	2390.00	42.0	41.97	-0.050	74.00	32.03	PK	Horizo	PASS

Transmit at 2405MHz by IEEE 802.15.4

Test Graph

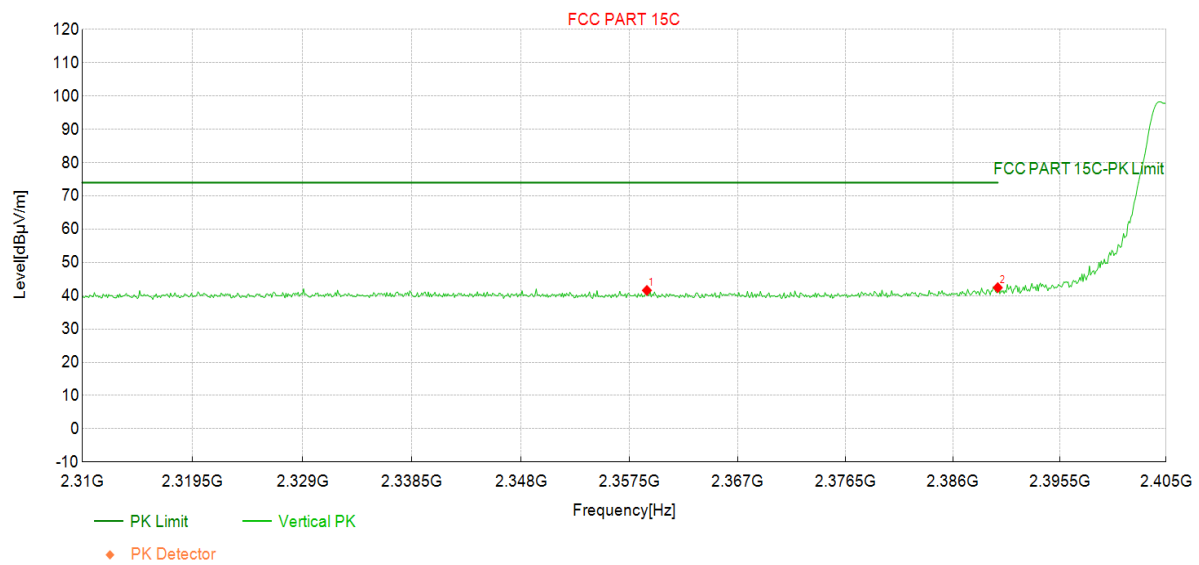


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2366.72	30.3	30.14	-0.110	54.00	23.86	AV	Horizo	PASS
2	2390.00	31.0	30.91	-0.050	54.00	23.09	AV	Horizo	PASS

Transmit at 2405MHz by IEEE 802.15.4

Test Graph

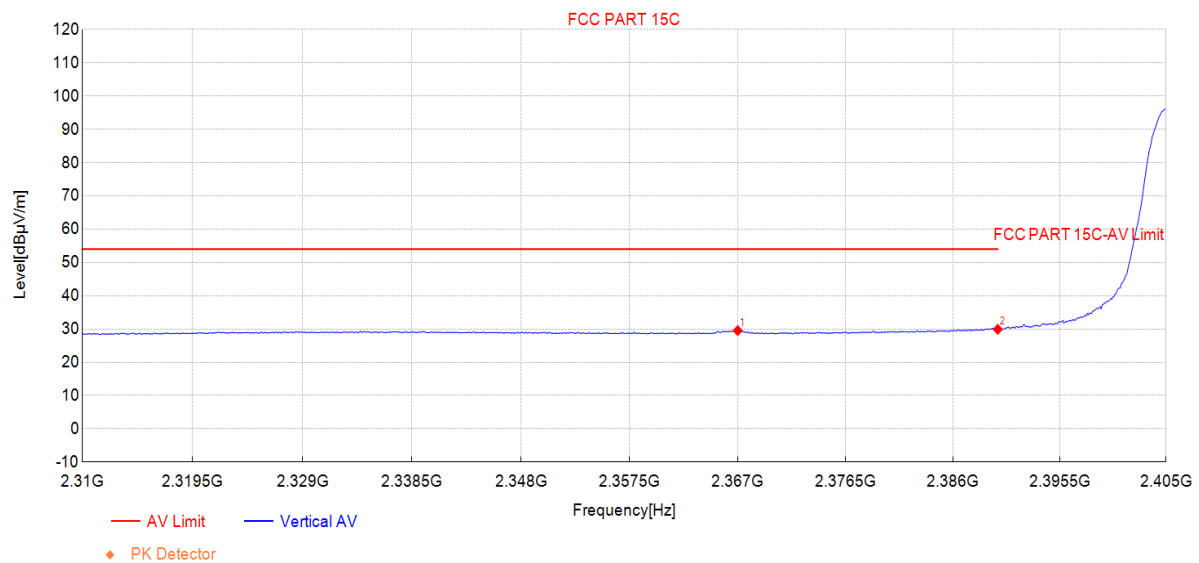


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2359.02	41.7	41.60	-0.130	74.00	32.40	PK	Vertic	PASS
2	2390.00	42.5	42.43	-0.050	74.00	31.57	PK	Vertic	PASS

Transmit at 2405MHz by IEEE 802.15.4

Test Graph

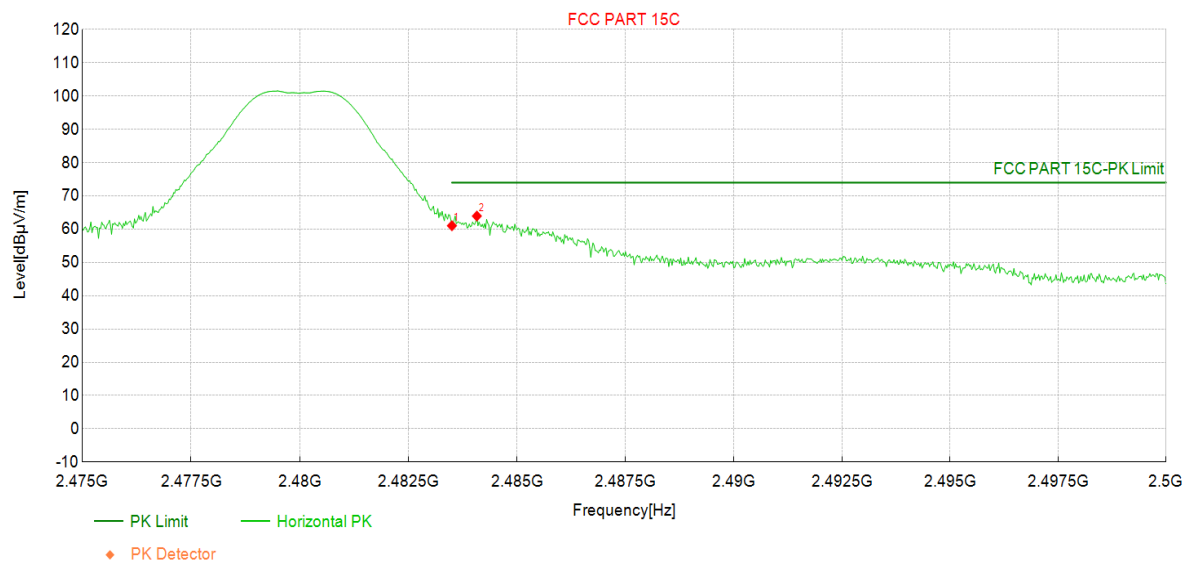


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2367.00	29.6	29.52	-0.110	54.00	24.48	AV	Vertic	PASS
2	2390.00	29.9	29.89	-0.050	54.00	24.11	AV	Vertic	PASS

Transmit at 2480MHz by IEEE 802.15.4

Test Graph

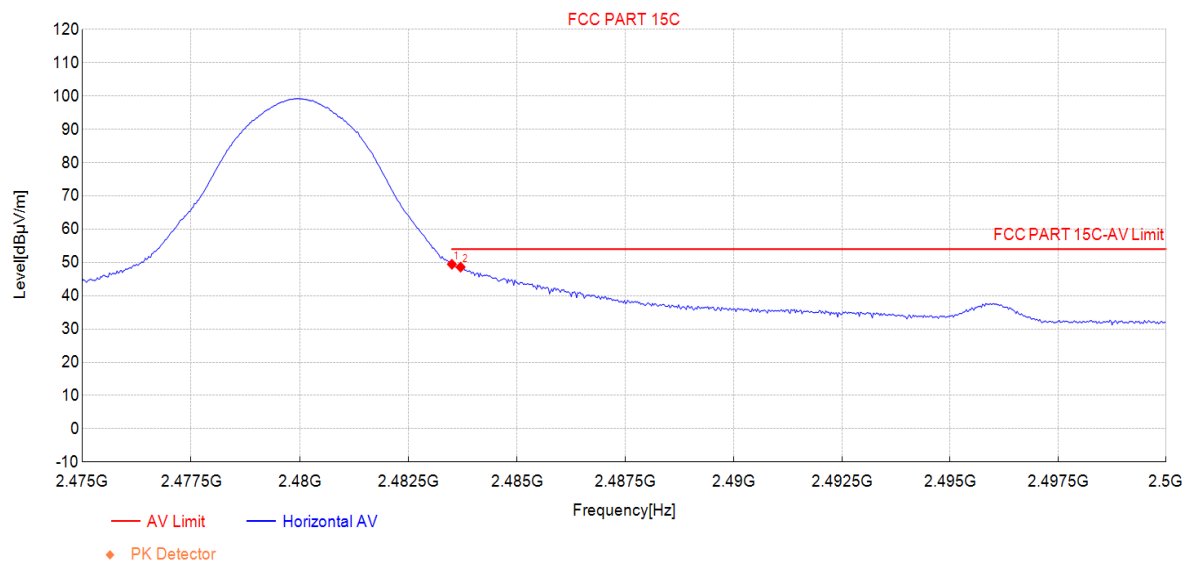


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	60.8	61.04	0.270	74.00	12.96	PK	Horizo	PASS
2	2484.08	63.7	63.95	0.270	74.00	10.05	PK	Horizo	PASS

Transmit at 2480MHz by IEEE 802.15.4

Test Graph

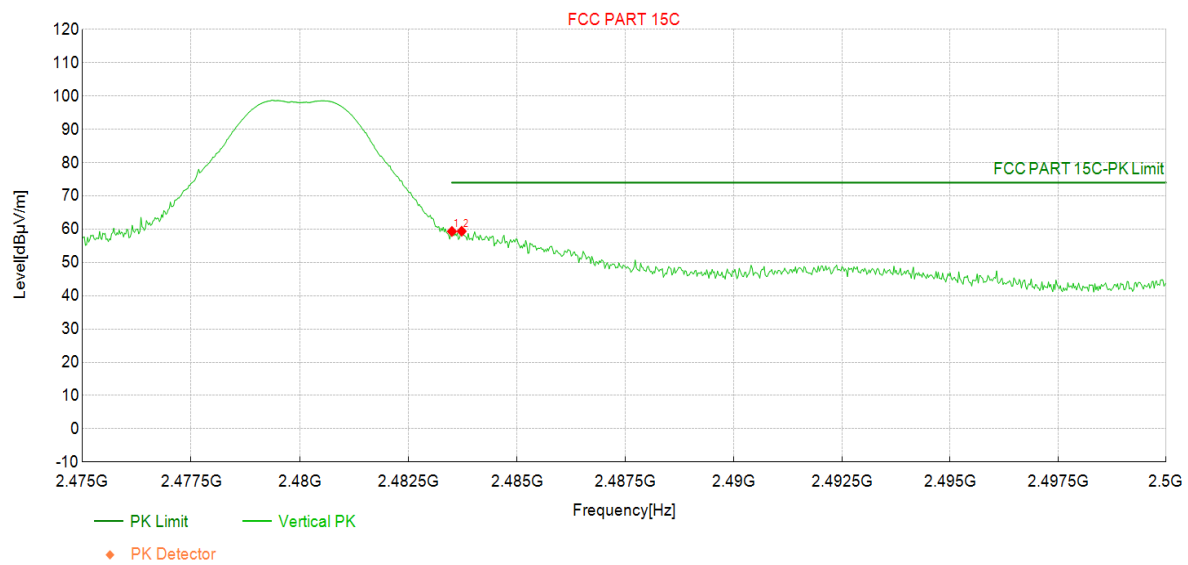


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	49.2	49.45	0.270	54.00	4.55	AV	Horizo	PASS
2	2483.70	48.3	48.61	0.270	54.00	5.39	AV	Horizo	PASS

Transmit at 2480MHz by IEEE 802.15.4

Test Graph

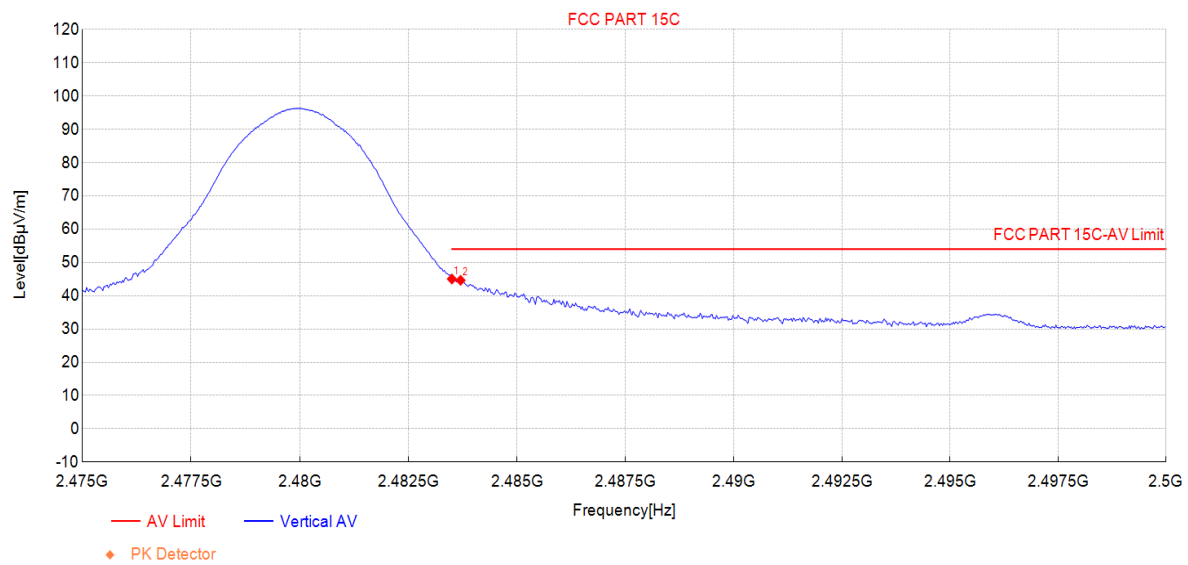


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	59.1	59.32	0.270	74.00	14.68	PK	Vertic	PASS
2	2483.73	59.1	59.38	0.270	74.00	14.62	PK	Vertic	PASS

Transmit at 2480MHz by IEEE 802.15.4

Test Graph



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	44.8	45.03	0.270	54.00	8.97	AV	Vertic	PASS
2	2483.70	44.4	44.64	0.270	54.00	9.36	AV	Vertic	PASS

Note:

1. Level = Reading + Factor(Probe+Cable-Amp).
2. Margin = Limit - Level

Appendix F Conducted Spurious Emission

Reference level measurement :



IEEE 802.15.4-Ant1-2405-PASS



IEEE 802.15.4-Ant1-2440-PASS

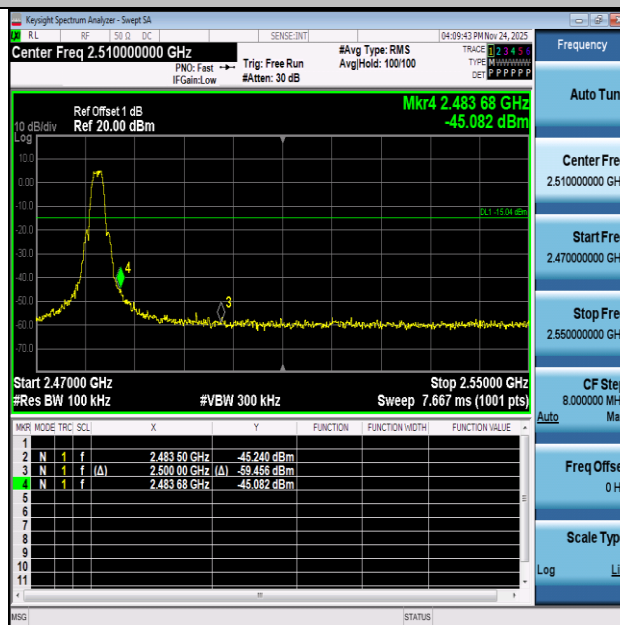


IEEE 802.15.4-Ant1-2480-PASS

Band edge measurements:



IEEE 802.15.4-Ant1-2405-PASS

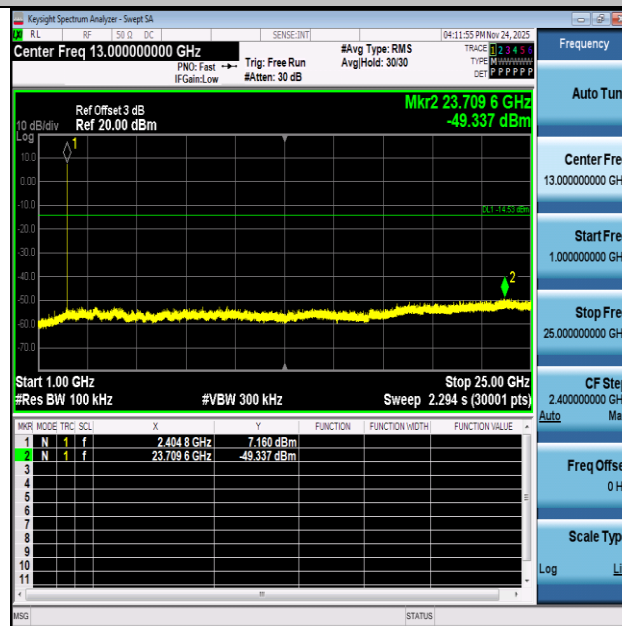


IEEE 802.15.4-Ant1-2480-PASS

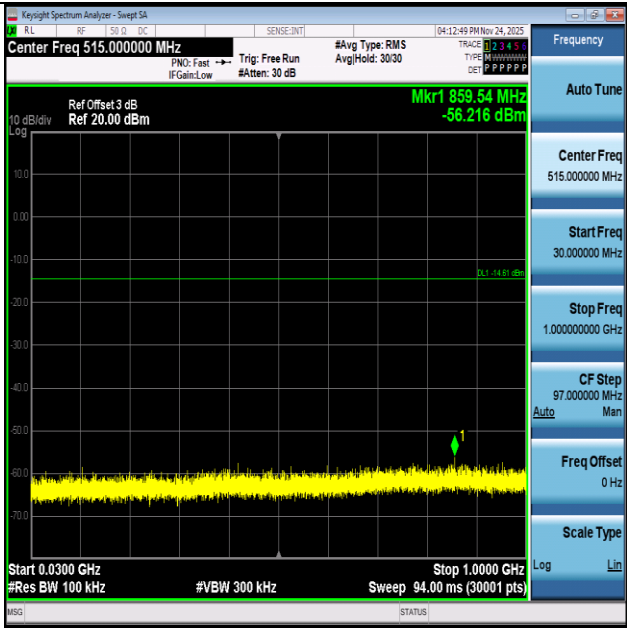
Conducted Spurious Emission:



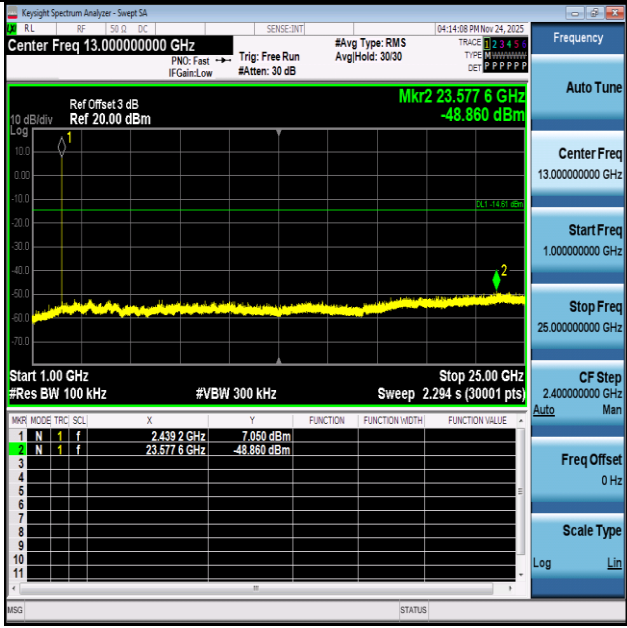
IEEE 802.15.4-Ant1-2405-30~1000-PASS



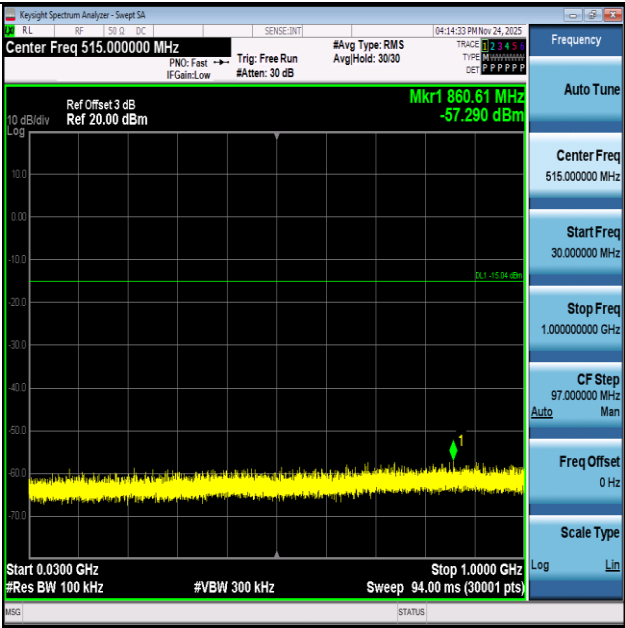
IEEE 802.15.4-Ant1-2405-1000~25000-PASS



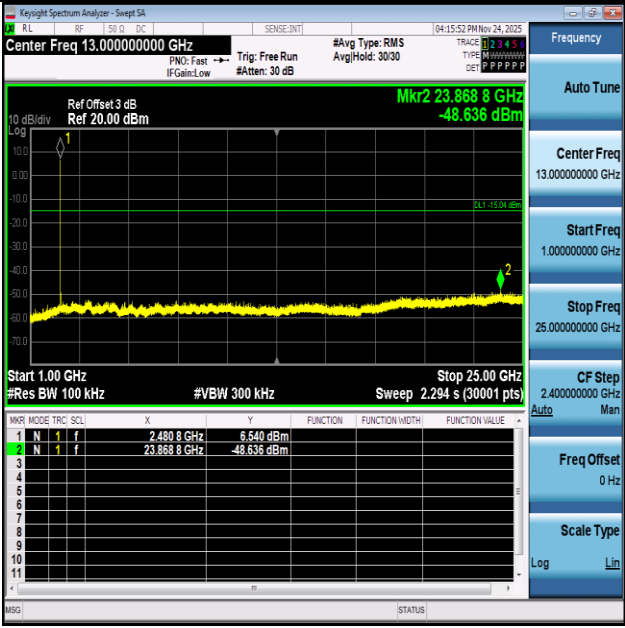
IEEE 802.15.4-Ant1-2440-30~1000-PASS



IEEE 802.15.4-Ant1-2440-1000~25000-PASS



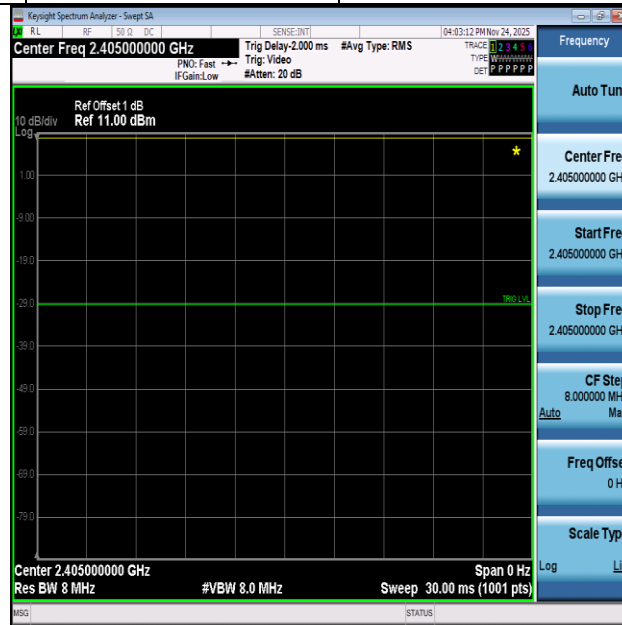
IEEE 802.15.4-Ant1-2480-30~1000-PASS



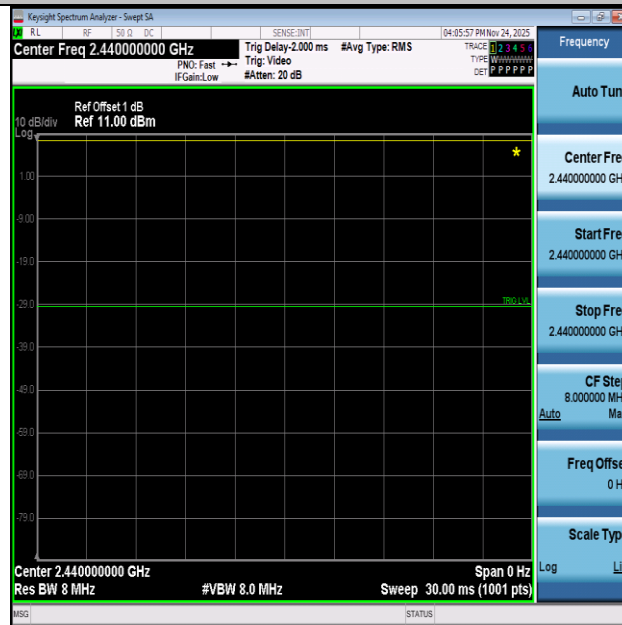
IEEE 802.15.4-Ant1-2480-1000~25000-PASS

Appendix G: Duty Cycle

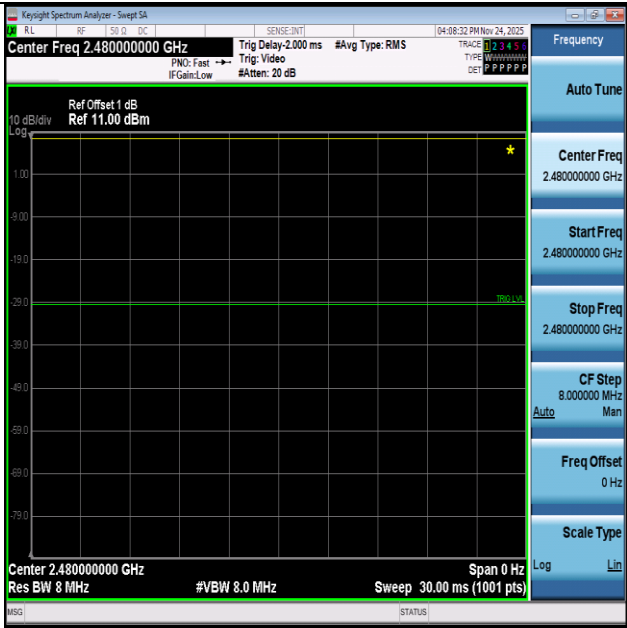
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Duty Cycle [%]	Limit
IEEE 802.15.4	Ant1	2405	N/A	100	N/A
IEEE 802.15.4	Ant1	2440	N/A	100	N/A
IEEE 802.15.4	Ant1	2480	N/A	100	N/A



NTNV-IEEE 802.15.4-Ant1-2405



NTNV-IEEE 802.15.4-Ant1-2440

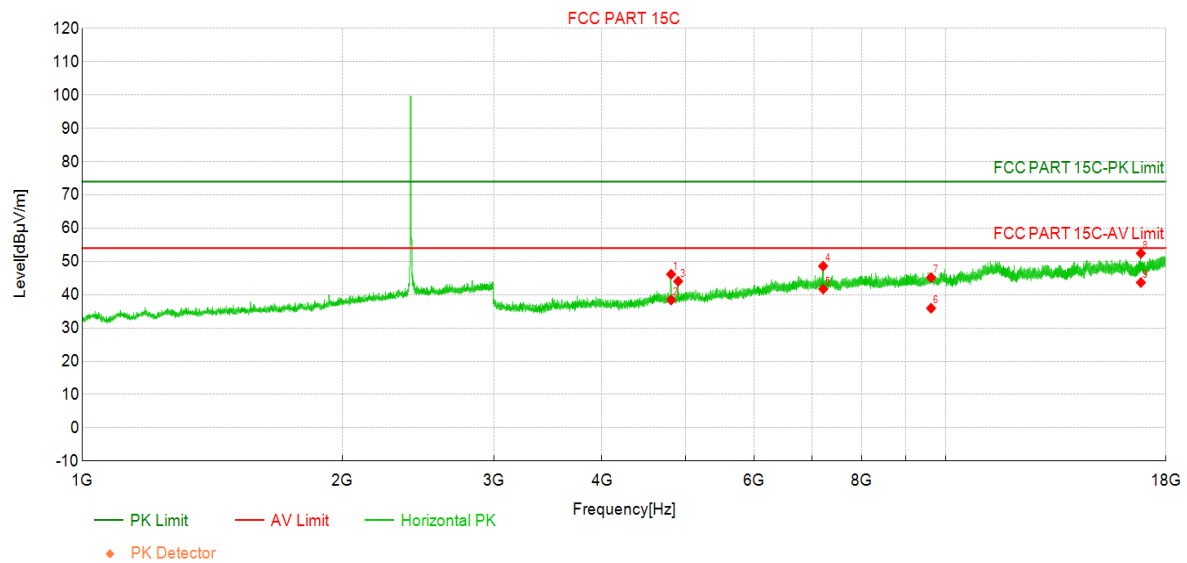


NTNV-IEEE 802.15.4-Ant1-2480

Appendix H: Emissions in Restricted Bands

Transmit at 2405MHz by IEEE 802.15.4

Test Graph

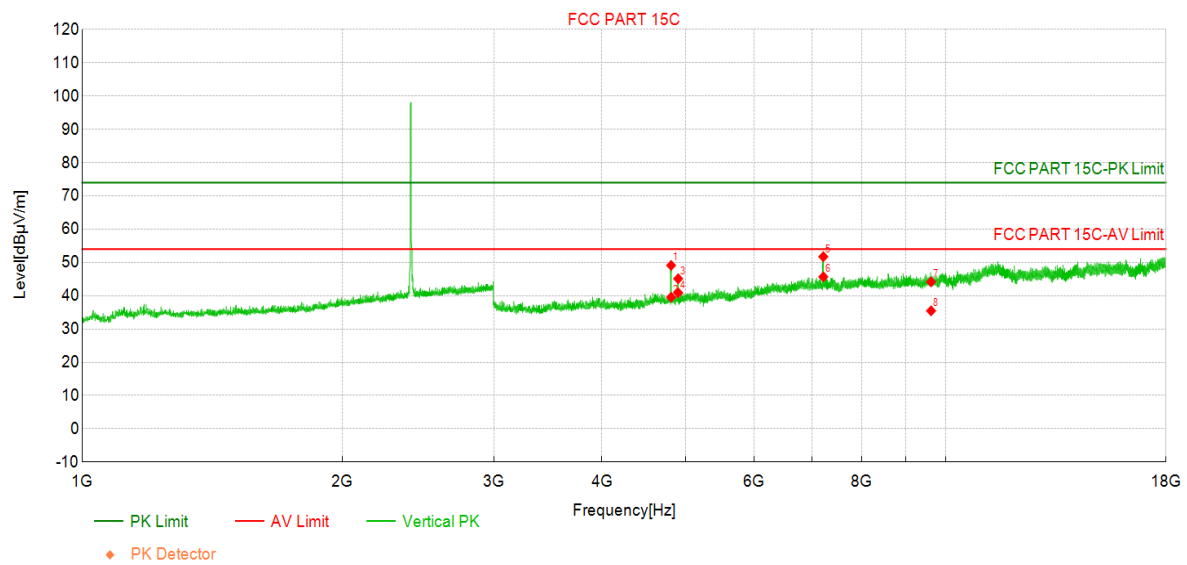


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4809.00	54.6	46.15	-8.460	74.00	27.85	PK	Horizo	PASS
2	4809.75	46.9	38.41	-8.460	54.00	15.59	AV	Horizo	PASS
3	4900.50	52.1	44.03	-8.070	74.00	29.97	PK	Horizo	PASS
4	7213.50	50.2	48.60	-1.620	74.00	25.40	PK	Horizo	PASS
5	7214.25	43.3	41.70	-1.610	54.00	12.30	AV	Horizo	PASS
6	9620.00	34.5	35.93	1.390	54.00	18.07	AV	Horizo	PASS
7	9620.00	43.8	45.16	1.390	74.00	28.84	PK	Horizo	PASS
8	16830.75	41.4	52.42	11.060	74.00	21.58	PK	Horizo	PASS
9	16831.50	32.6	43.66	11.070	54.00	10.34	AV	Horizo	PASS

Transmit at 2405MHz by IEEE 802.15.4

Test Graph

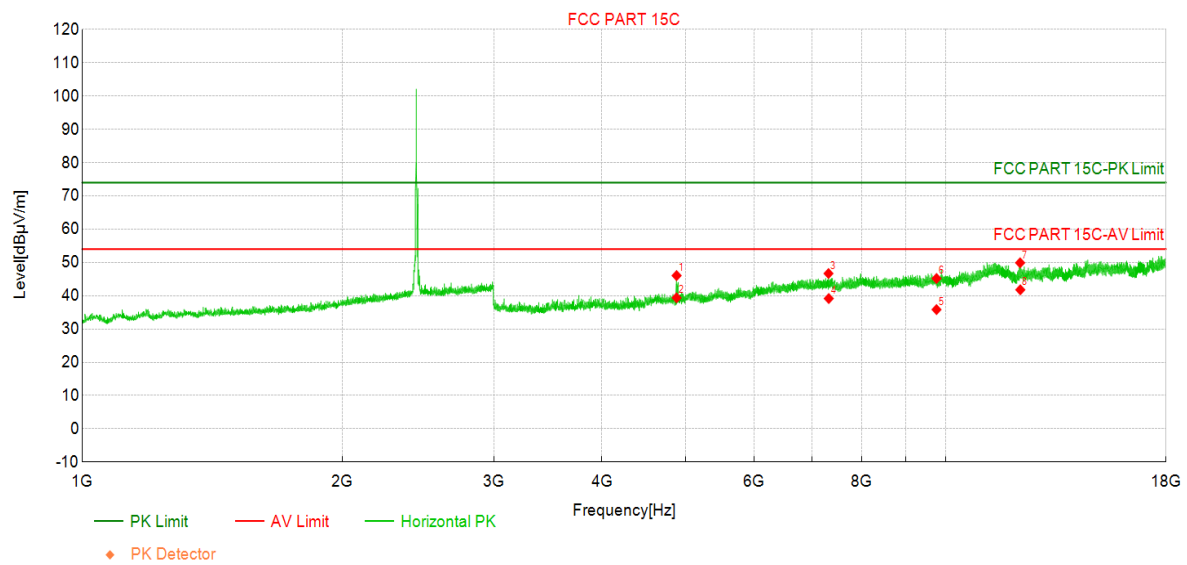


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4809.75	57.6	49.11	-8.460	74.00	24.89	PK	Vertic	PASS
2	4810.00	48.0	39.54	-8.450	54.00	14.46	AV	Vertic	PASS
3	4900.50	53.2	45.12	-8.070	74.00	28.88	PK	Vertic	PASS
4	4901.25	48.9	40.86	-8.070	54.00	13.14	AV	Vertic	PASS
5	7216.50	53.4	51.74	-1.610	74.00	22.26	PK	Vertic	PASS
6	7217.25	47.3	45.70	-1.620	54.00	8.30	AV	Vertic	PASS
7	9620.00	42.8	44.15	1.390	74.00	29.85	PK	Vertic	PASS
8	9620.00	34.1	35.46	1.390	54.00	18.54	AV	Vertic	PASS

Transmit at 2440MHz by IEEE 802.15.4

Test Graph

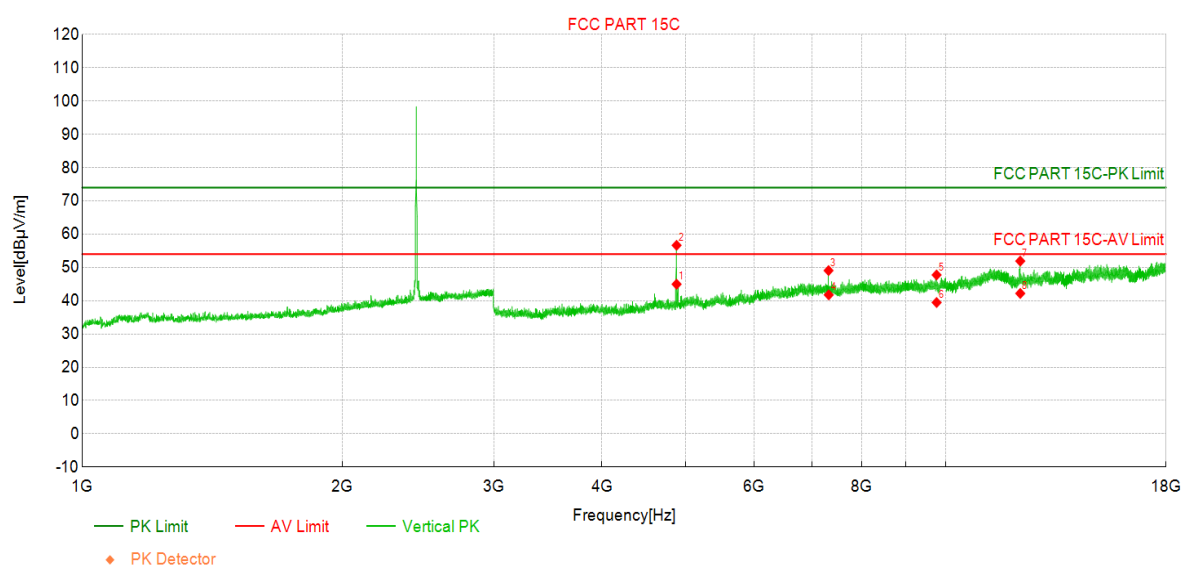


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4880.00	54.2	46.05	-8.160	74.00	27.95	PK	Horizo	PASS
2	4880.00	47.5	39.38	-8.160	54.00	14.62	AV	Horizo	PASS
3	7317.75	48.1	46.67	-1.460	74.00	27.33	PK	Horizo	PASS
4	7322.25	40.6	39.16	-1.420	54.00	14.84	AV	Horizo	PASS
5	9760.00	34.4	35.83	1.450	54.00	18.17	AV	Horizo	PASS
6	9760.00	43.7	45.18	1.450	74.00	28.82	PK	Horizo	PASS
7	12197.25	43.0	49.89	6.900	74.00	24.11	PK	Horizo	PASS
8	12203.25	34.9	41.78	6.920	54.00	12.22	AV	Horizo	PASS

Transmit at 2440MHz by IEEE 802.15.4

Test Graph

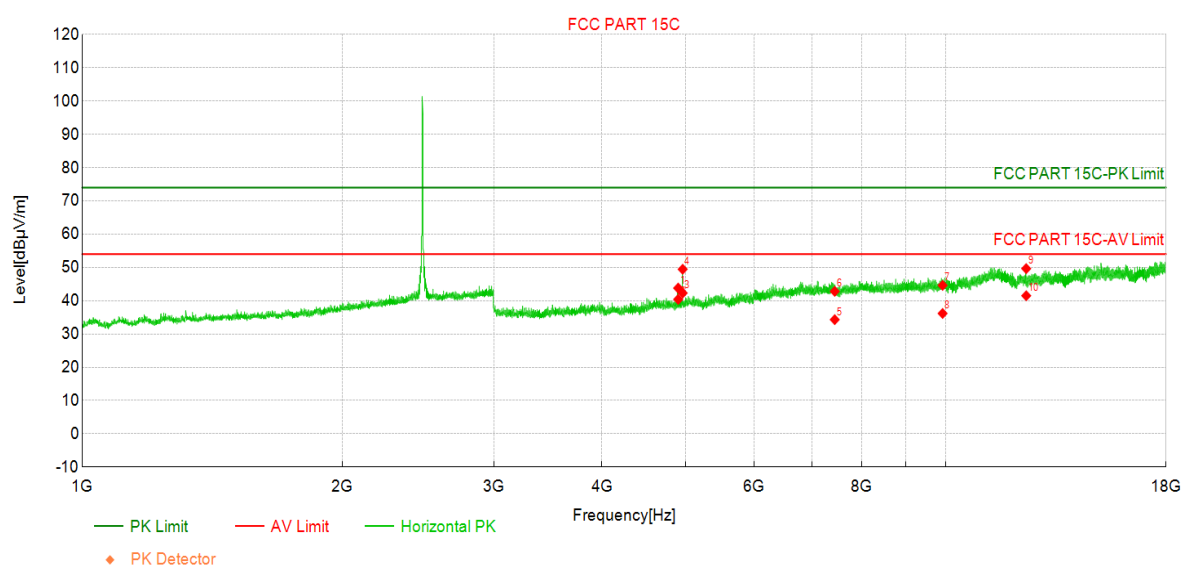


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4880.00	53.1	44.97	-8.160	54.00	9.03	AV	Vertic	PASS
2	4880.25	64.8	56.65	-8.160	74.00	17.35	PK	Vertic	PASS
3	7318.50	50.5	49.06	-1.450	74.00	24.94	PK	Vertic	PASS
4	7322.25	43.2	41.75	-1.420	54.00	12.25	AV	Vertic	PASS
5	9762.00	46.3	47.75	1.450	74.00	26.25	PK	Vertic	PASS
6	9762.75	38.0	39.46	1.450	54.00	14.54	AV	Vertic	PASS
7	12202.50	45.0	51.92	6.920	74.00	22.08	PK	Vertic	PASS
8	12203.25	35.3	42.19	6.920	54.00	11.81	AV	Vertic	PASS

Transmit at 2480MHz by IEEE 802.15.4

Test Graph

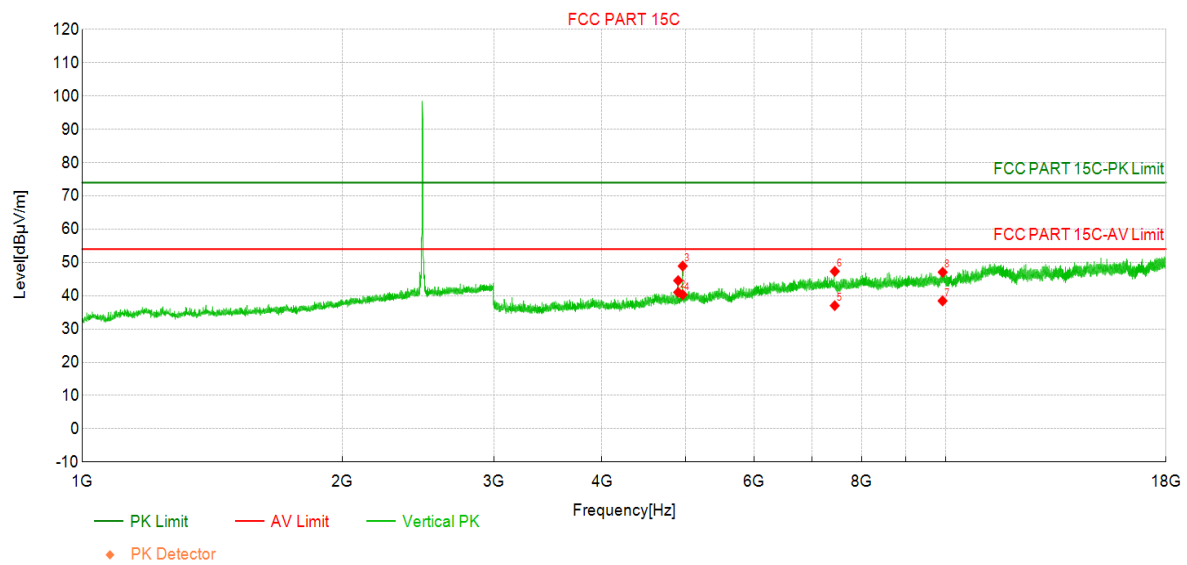


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4900.50	51.9	43.80	-8.070	74.00	30.20	PK	Horizo	PASS
2	4901.25	48.5	40.40	-8.070	54.00	13.60	AV	Horizo	PASS
3	4960.00	50.1	42.31	-7.830	54.00	11.69	AV	Horizo	PASS
4	4960.00	57.3	49.46	-7.830	74.00	24.54	PK	Horizo	PASS
5	7440.00	35.6	34.31	-1.300	54.00	19.69	AV	Horizo	PASS
6	7440.00	44.1	42.82	-1.300	74.00	31.18	PK	Horizo	PASS
7	9920.00	42.3	44.62	2.350	74.00	29.38	PK	Horizo	PASS
8	9920.00	33.8	36.18	2.350	54.00	17.82	AV	Horizo	PASS
9	12397.50	42.2	49.65	7.500	74.00	24.35	PK	Horizo	PASS
10	12398.25	34.0	41.50	7.500	54.00	12.50	AV	Horizo	PASS

Transmit at 2480MHz by IEEE 802.15.4

Test Graph



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4900.50	52.6	44.54	-8.070	74.00	29.46	PK	Vertic	PASS
2	4901.25	49.1	41.02	-8.070	54.00	12.98	AV	Vertic	PASS
3	4960.00	56.8	48.92	-7.830	74.00	25.08	PK	Vertic	PASS
4	4960.00	48.2	40.32	-7.830	54.00	13.68	AV	Vertic	PASS
5	7440.00	38.3	37.02	-1.300	54.00	16.98	AV	Vertic	PASS
6	7441.50	48.6	47.32	-1.320	74.00	26.68	PK	Vertic	PASS
7	9918.75	36.1	38.45	2.350	54.00	15.55	AV	Vertic	PASS
8	9921.75	44.7	47.07	2.340	74.00	26.93	PK	Vertic	PASS

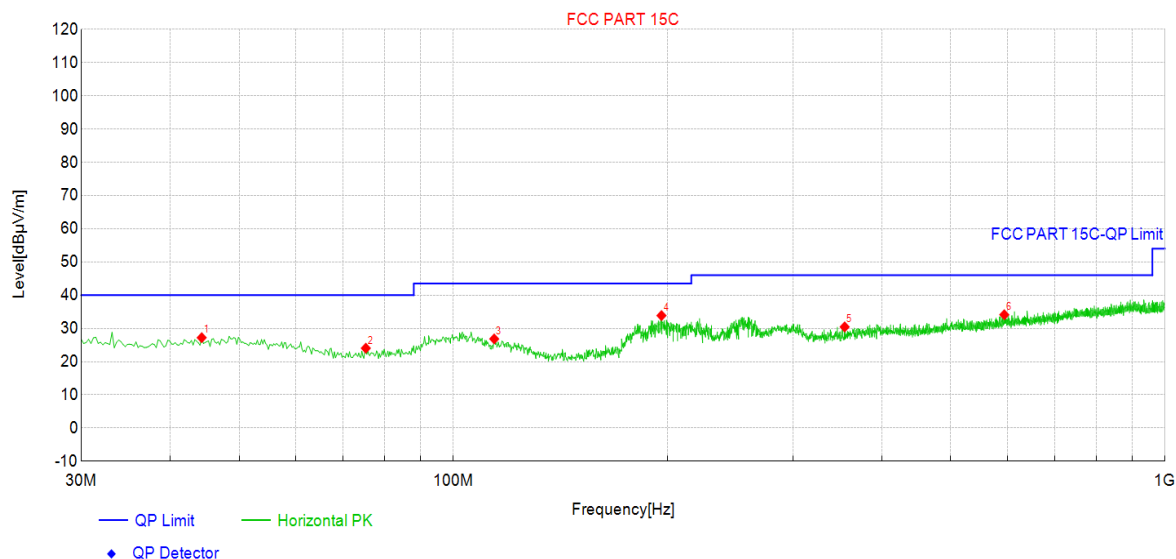
Note:

1. Level = Reading + Factor(Probe+Cable-Amp).
2. Margin = Limit - Level
3. The test frequency range, 18GHz~26GHz test result on peak is lower than average limit, all is the noise base, therefore no data appear in the report.

Worst data of radiated emissions below 1GHz:

Transmit at 2405MHz by IEEE 802.15.4

Test Graph

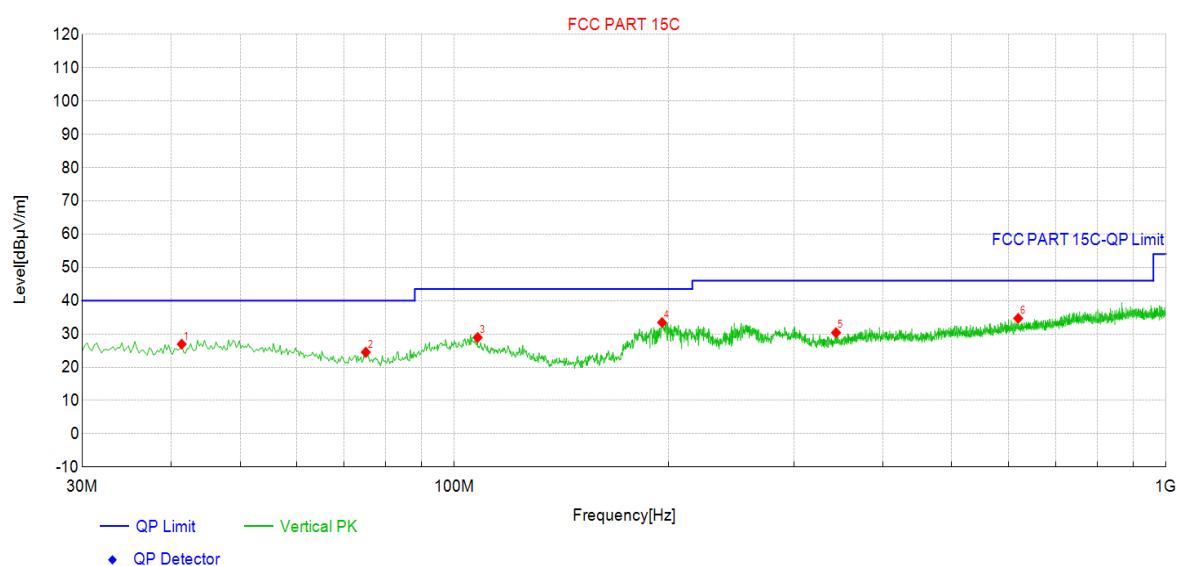


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	44.31	12.7	27.21	14.490	40.00	12.79	PK	Horizo	PASS
2	75.35	14.2	24.04	9.880	40.00	15.96	PK	Horizo	PASS
3	114.15	15.2	26.83	11.670	43.50	16.67	PK	Horizo	PASS
4	196.11	22.3	33.86	11.560	43.50	9.64	PK	Horizo	PASS
5	354.71	15.0	30.45	15.450	46.00	15.55	PK	Horizo	PASS
6	594.54	14.6	34.12	19.570	46.00	11.88	PK	Horizo	PASS

Transmit at 2405MHz by IEEE 802.15.4

Test Graph



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	41.40	12.9	26.94	14.070	40.00	13.06	PK	Vertic	PASS
2	75.11	14.6	24.53	9.890	40.00	15.47	PK	Vertic	PASS
3	107.84	16.6	28.93	12.290	43.50	14.57	PK	Vertic	PASS
4	195.87	21.9	33.44	11.540	43.50	10.06	PK	Vertic	PASS
5	343.80	15.1	30.39	15.250	46.00	15.61	PK	Vertic	PASS
6	619.76	14.9	34.69	19.840	46.00	11.31	PK	Vertic	PASS

Note:

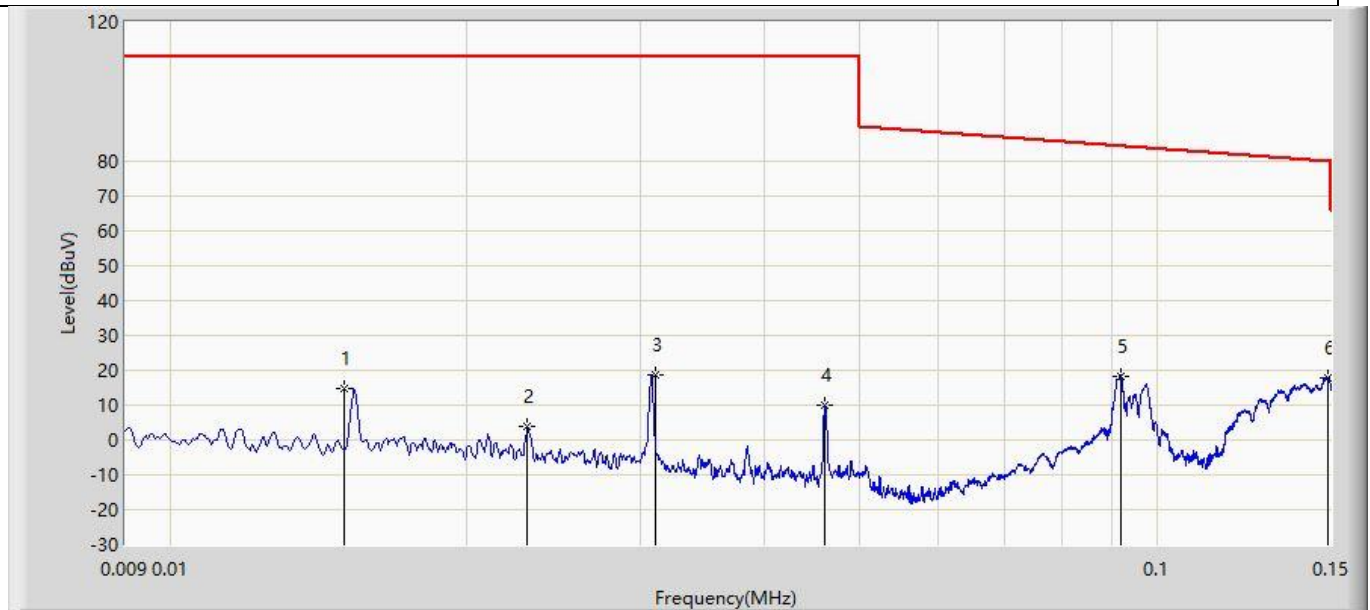
1. Level = Reading + Factor(Probe+Cable-Amp).

2. Margin = Limit – Level

3. The test frequency range, 9kHz~30MHz, worst case are at least 20dB below the limits, therefore no data appear in the report.

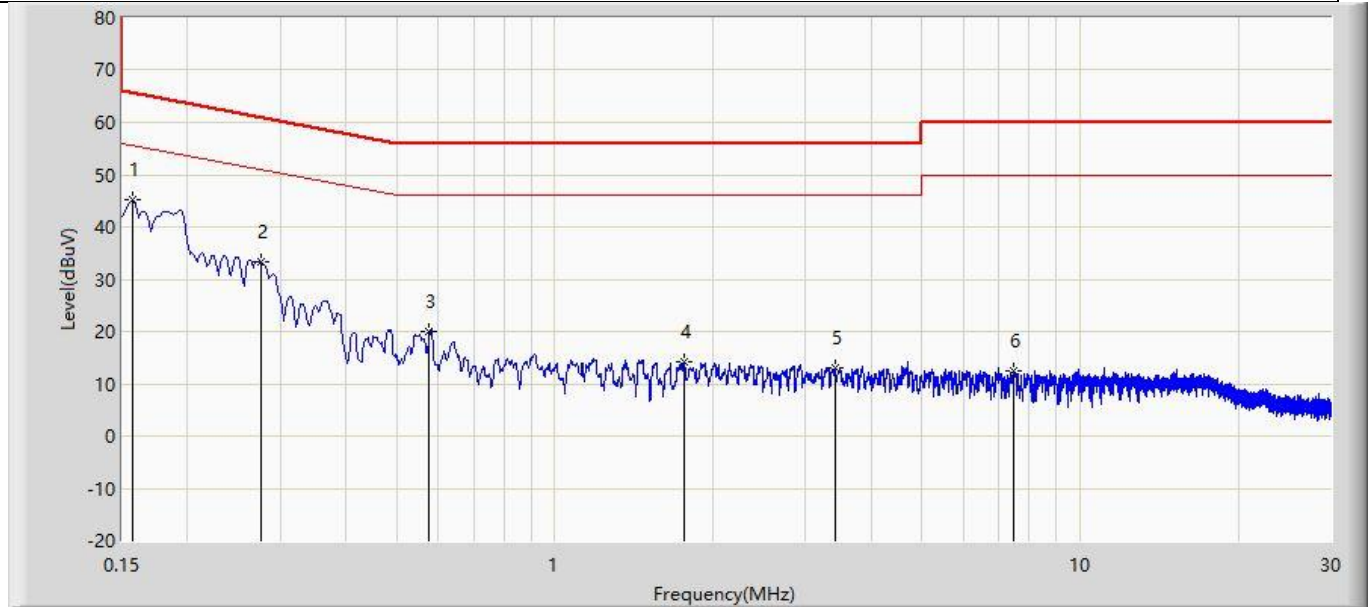
Appendix I: AC Power Line Conducted Emission

Profile: 25B0547R	Page No.: 5
Engineer: Yu Liu	
Site: TR1	Time: 2025/12/08 - 19:23
Limit: IC_CE_AC Power-1	Margin: 0
Probe: ENV216_101189(0.009-30MHz)	Polarity: Line
EUT: LED lamp	Power: 120Vac/60Hz
Note: Transmit at 2405MHz by IEEE 802.15.4	



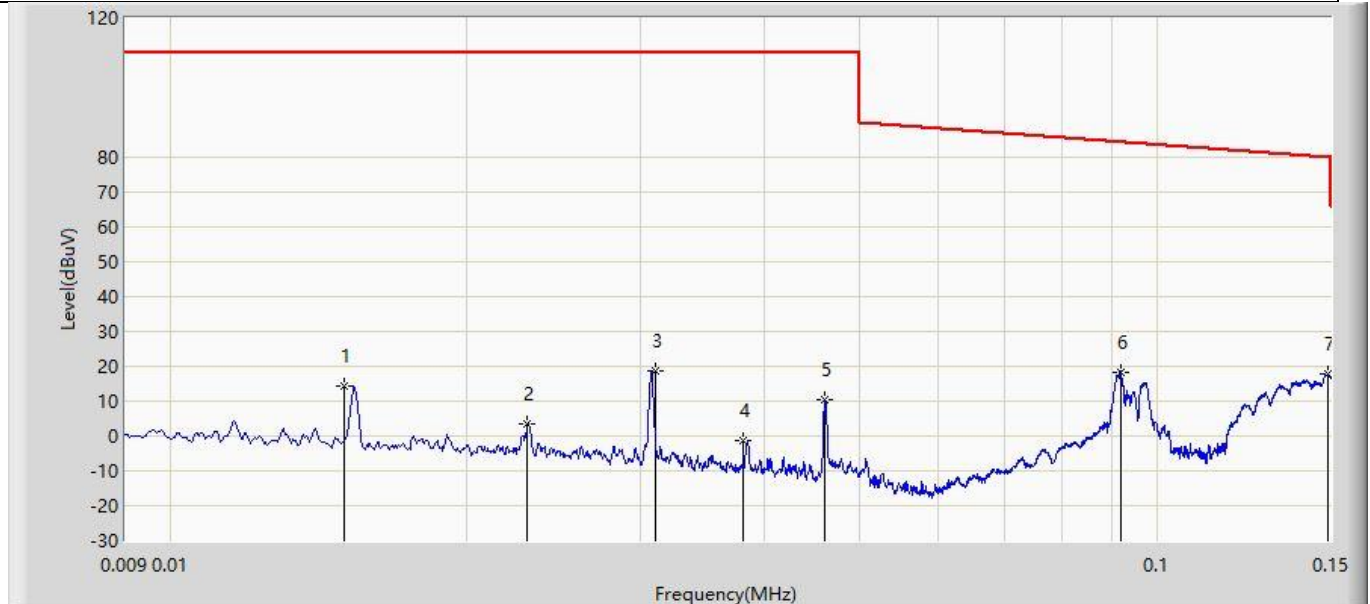
No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.015	14.699	4.454	-95.301	110.000	10.245	QP
2		0.023	4.007	-6.070	-105.993	110.000	10.077	QP
3		0.031	18.756	8.846	-91.244	110.000	9.910	QP
4		0.046	10.151	0.416	-99.849	110.000	9.735	QP
5		0.092	18.431	8.736	-66.018	84.450	9.695	QP
6	*	0.149	17.909	8.237	-62.152	80.061	9.672	QP

Profile: 25B0547R	Page No.: 6
Engineer: Yu Liu	
Site: TR1	Time: 2025/12/08 - 19:24
Limit: FCC_Part 15.207, IC_CE_AC Power-1	Margin: 0
Probe: ENV216_101189(0.009-30MHz)	Polarity: Line
EUT: LED lamp	Power: 120Vac/60Hz
Note: Transmit at 2405MHz by IEEE 802.15.4	



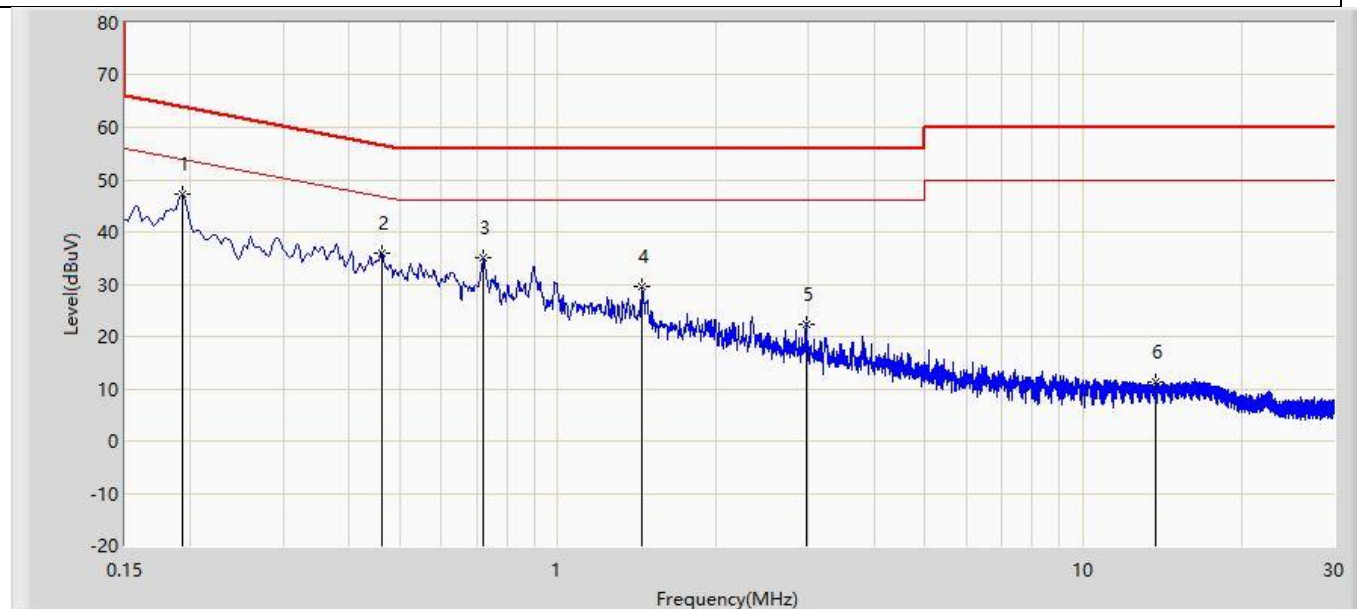
No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1	*	0.157	45.140	35.471	-20.481	65.621	9.669	QP
2		0.276	33.337	23.671	-27.598	60.935	9.667	QP
3		0.577	19.906	10.220	-36.094	56.000	9.686	QP
4		1.757	14.105	4.356	-41.895	56.000	9.748	QP
5		3.408	13.178	3.379	-42.822	56.000	9.799	QP
6		7.487	12.501	2.617	-47.499	60.000	9.884	QP

Profile: 25B0547R	Page No.: 7
Engineer: Yu Liu	
Site: TR1	Time: 2025/12/08 - 19:24
Limit: IC_CE_AC Power-1	Margin: 0
Probe: ENV216_101189(0.009-30MHz)	Polarity: Neutral
EUT: LED lamp	Power: 120Vac/60Hz
Note: Transmit at 2405MHz by IEEE 802.15.4	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.015	14.237	3.959	-95.763	110.000	10.278	QP
2		0.023	3.676	-6.425	-106.324	110.000	10.101	QP
3		0.031	18.719	8.794	-91.281	110.000	9.925	QP
4		0.038	-1.382	-11.153	-111.382	110.000	9.771	QP
5		0.046	10.533	0.795	-99.467	110.000	9.738	QP
6		0.092	18.282	8.619	-66.167	84.450	9.663	QP
7	*	0.149	17.856	8.169	-62.205	80.061	9.688	QP

Profile: 25B0547R	Page No.: 8
Engineer: Yu Liu	
Site: TR1	Time: 2025/12/08 - 19:25
Limit: FCC_Part 15.207, IC_CE_AC Power-1	Margin: 0
Probe: ENV216_101189(0.009-30MHz)	Polarity: Neutral
EUT: LED lamp	Power: 120Vac/60Hz
Note: Transmit at 2405MHz by IEEE 802.15.4	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1	*	0.193	47.274	37.620	-16.633	63.906	9.654	QP
2		0.463	36.056	26.457	-20.582	56.639	9.599	QP
3		0.721	34.934	25.282	-21.066	56.000	9.652	QP
4		1.446	29.513	19.826	-26.487	56.000	9.687	QP
5		2.967	22.458	12.713	-33.542	56.000	9.745	QP
6		13.776	11.333	1.253	-48.667	60.000	10.080	QP

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp)

The End