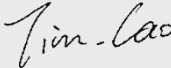


Test report No:
2580636R.701B

FCC TEST REPORT

Product Name	Smart Camera
Trademark	N/A
Model and /or type reference	SC254-WBA3,SC254-WBB3,SC254-WBC3,SC254-WBD3,SC254-WBE3,SC254-WBF3,SC254-WBA3A,SC254-WBB3A,SC254-WBC3A,SC254-WBD3A,SC254-WBE3A,SC254-WBF3A,SC254-WBA4,SC254-WBB4,SC254-WBC4,SC254-WBD4,SC254-WBE4,SC254-WBF4,SC254-WBA4A,SC254-WBB4A,SC254-WBC4A,SC254-WBD4A,SC254-WBE4A,SC254-WBF4A,SC254-WBA5,SC254-WBB5,SC254-WBC5,SC254-WBD5,SC254-WBE5,SC254-WBF5,SC254-WBA5A,SC254-WBB5A,SC254-WBC5A,SC254-WBD5A,SC254-WBE5A,SC254-WBF5A
FCC ID	2BEWXSC254
Applicant's name / address	Zhejiang Lingzhu Technology Co., Ltd. Room 302, No 1 Building Huace Center, Xihu District, Hangzhou City, Zhejiang Province,China
Test method requested, standard	47 CFR FCC Part 15 (Section 15.247) ANSI C63.10: 2020
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	2025-10-20
Report Version	V1.0

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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.

IMPORTANT: No parts of this report may be reproduced or quoted out of context, in any form or by any means, except in full, without the previous written permission of DEKRA.

GENERAL CONDITIONS

Test Location	No. 99, Hongye Road, Suzhou Industrial Park Suzhou, 215006, P.R. China
Date(receive sample)	Aug. 21, 2025
Date (start test)	Aug. 23, 2025
Date (finish test)	Sep.10, 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.

ENVIRONMENTAL CONDITIONS

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. The climatic conditions during the tests were within the following limits:

Ambient temperature	15 °C – 35 °C
Relative Humidity air	30% - 60%

If explicitly required in the basic standard or applied product / product family standard the climatic values are recorded and documented separately in this test report.

POSSIBLE TEST CASE VERDICTS

Test case does not apply to test object	N/A
Test object does meet requirement	P (Pass) / PASS
Test object does not meet requirement	F (Fail) / FAIL
Not measured	N/M

ABBREVIATIONS

For the purposes of the present document, the following abbreviations apply:

EUT	: Equipment Under Test
QP	: Quasi-Peak
CAV	: CISPR Average
AV	: Average
CDN	: Coupling Decoupling Network
SAC	: Semi-Anechoic Chamber
OATS	: Open Area Test Site
BW	: Bandwidth
AM	: Amplitude Modulation
PM	: Pulse Modulation
HCP	: Horizontal Coupling Plane
VCP	: Vertical Coupling Plane
U_N	: Nominal voltage
Tx	: Transmitter
Rx	: Receiver
N/A	: Not Applicable
N/M	: Not Measured

DOCUMENT HISTORY

Report No.	Version	Description	Issued Date
2580636R.701B	V1.0	Initial issue of report.	2025-10-20

REMARKS AND COMMENTS

1. The equipment under test (EUT) does meet the essential requirements of the stated standard(s)/test(s).
2. These test results on a sample of the device are for the purpose of demonstrating Compliance with 47 CFR FCC Part 15 (Section 15.247).
3. 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.
4. The test results presented in this report relate only to the object tested.
5. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification (Suzhou) Co., Ltd.
6. This report will not be used for social proof function in China market.
7. DEKRA declines any responsibility with the following test data provided by customer that may affect the validity of result:
 - Chapter 1 General Information

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	2025.06.11	2026.06.10	N/A	N/A
Coaxial Cable	N/A	N/A	2478	2025.06.11	2026.06.10	N/A	N/A
High and low temperature and fast temperature change test box	ASTUOD	ASTD-FBT-225K	N/A	2025.03.15	2026.03.14	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-1909	THM-032	2025.07.11	2026.07.10	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	2024.10.26	2025.10.25	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	2025.07.06	2026.07.05	B.01.95	N/A
Test Software	Tonscend	TS1120	JS1120-3	N/A	N/A	N/A	V3.0.22

Radiated Emissions (30MHz-40GHz) / AC6

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Version	Software version
Signal analyzer	R&S	FSV30	104212	2025.07.06	2026.07.05	A 08.54	N/A
Half Wave Tuned Dipole Antenna	COM-POWER	AD-100	40137	2023.04.07	2026.04.06	N/A	N/A
Horn Antenna	RFSPIN	DRH18-E	CE2C07A18EN	2024.12.07	2025.12.06	N/A	N/A
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9168	01231	2025.05.28	2026.05.27	N/A	N/A
Pre-Amplifier	XH	LNA1845	LNA23040284	2025.07.04	2026.07.03	N/A	N/A
Pre-Amplifier	SCHWARZBECK	BBV 9721	00114	2025.07.04	2026.07.03	N/A	N/A
Coaxial Cable	N/A	N/A	2225	2025.06.11	2026.06.10	N/A	N/A
Notch Filter	Micro-mve	MFN-2400.2485.S1	AN0003N	2025.06.11	2026.06.10	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-8S	RF04	2025.07.11	2026.07.10	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-8S	RF08	2025.07.11	2026.07.10	N/A	N/A
Test Software	Tonscend	JS36	JS36-RSE	N/A	N/A	N/A	V5.0.0

Radiated Emission(9KHz-1GHz) / AC2

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Version	Software version
EMI Test Receiver	R&S	ESCI	100176	2025.05.12	2026.05.11	4.42 SP3	N/A
Loop Antenna	R&S	HFH2-Z2E	101149	2025.03.27	2026.03.26	N/A	N/A
Bilog Antenna	Teseq GmbH	CBL6112D	27613	2024.09.08	2025.09.07	N/A	N/A
Bilog Antenna	Teseq GmbH	CBL6112D	27613	2025.09.08	2026.09.07	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-8S	AC2-TH	2025.07.04	2026.07.03	N/A	N/A
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2025.04.27	2026.04.26	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: 2.8 dB 150kHz~30MHz: 2.4 dB
Peak Power Output	± 1.3 dB
Radiated Emission(30MHz~1GHz)	Horizontal: 30MHz~300MHz: 3.5 dB, 300MHz~1GHz: 3.6 dB Vertical: 30MHz~300MHz: 3.6 dB, 300MHz~1GHz: 3.5 dB
Radiated Emission(1GHz~40GHz)	Horizontal: 1GHz~40GHz: 5.0 dB Vertical: 1GHz~40GHz: 4.8 dB
RF antenna conducted test	± 1.3 dB
Radiated Emission Band Edge	± 5.0 dB
DTS Bandwidth	± 1 kHz
Occupied Bandwidth	± 1 kHz
Power Density	± 1.3 dB

1 GENERAL INFORMATION

Product Name	Smart Camera				
Model No.....	SC254-WBA3,SC254-WBB3,SC254-WBC3,SC254-WBD3, SC254-WBE3,SC254-WBF3,SC254-WBA3A,SC254-WBB3A,SC254-WBC3A,SC254-WBD3A,SC254-WBE3A,SC254-WBF3A,SC254-WBA4,SC254-WBB4,SC254-WBC4,SC254-WBD4,SC254-WBE4,SC254-WBF4,SC254-WBA4A,SC254-WBB4A,SC254-WBC4A,SC254-WBD4A,SC254-WBE4A,SC254-WBF4A,SC254-WBA5,SC254-WBB5,SC254-WBC5,SC254-WBD5,SC254-WBE5,SC254-WBF5,SC254-WBA5A,SC254-WBB5A,SC254-WBC5A,SC254-WBD5A,SC254-WBE5A,SC254-WBF5A				
Model difference	All above models are identical to each other, except for different model numbers, sensor, color and tiny enclosure difference, such as different chamfering. These differences are not related to the radio frequency function. 3,4,5 in model name for different sensor and A,B,C,D,E,F in model name for different color and tiny enclosure difference.				
Trademark.....	N/A				
Operating temperature.....	-20~50 °C				
Manufacturer	Zhejiang Lingzhu Technology Co., Ltd.				
Manufacturer address.....	Room 302, No 1 Building Huace Center, Xihu District, Hangzhou City, Zhejiang Province, China				
Power Supply	5Vdc 1.5A (type C) 3.7Vdc (lithium-ion battery)				
Wireless specification	Bluetooth (LE)				
Operating frequency range(s)	2400-2483.5MHz				
Type of Modulation	GFSK				
PHYs.....	☒	LE 1M	☒	LE 2M	☐ LE Coded S=2/8
Data Rate.....	☒	1Mbit/s	☒	2Mbit/s	☐ 500/125 Kbit/s
Number of channels	40				
Antenna Type.....	Dipole				
Antenna Gain	0.43 dBi				

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

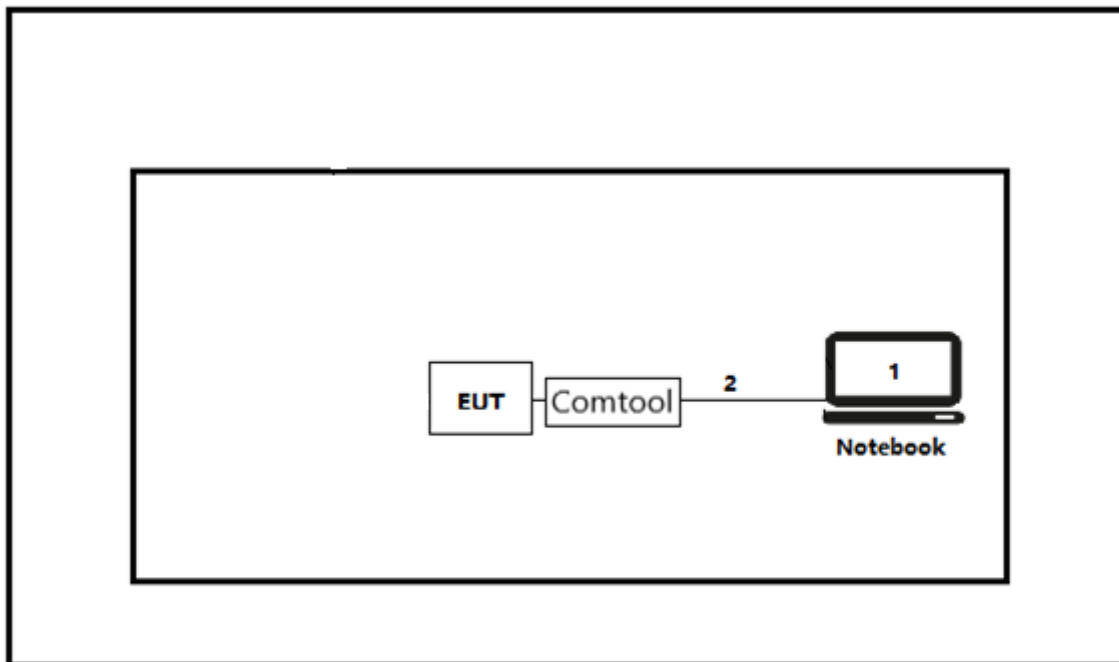
2.1 Auxiliary equipment /Accessories/Test software for the EUT

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
ImageTool	2.2.12	N/A	N/A

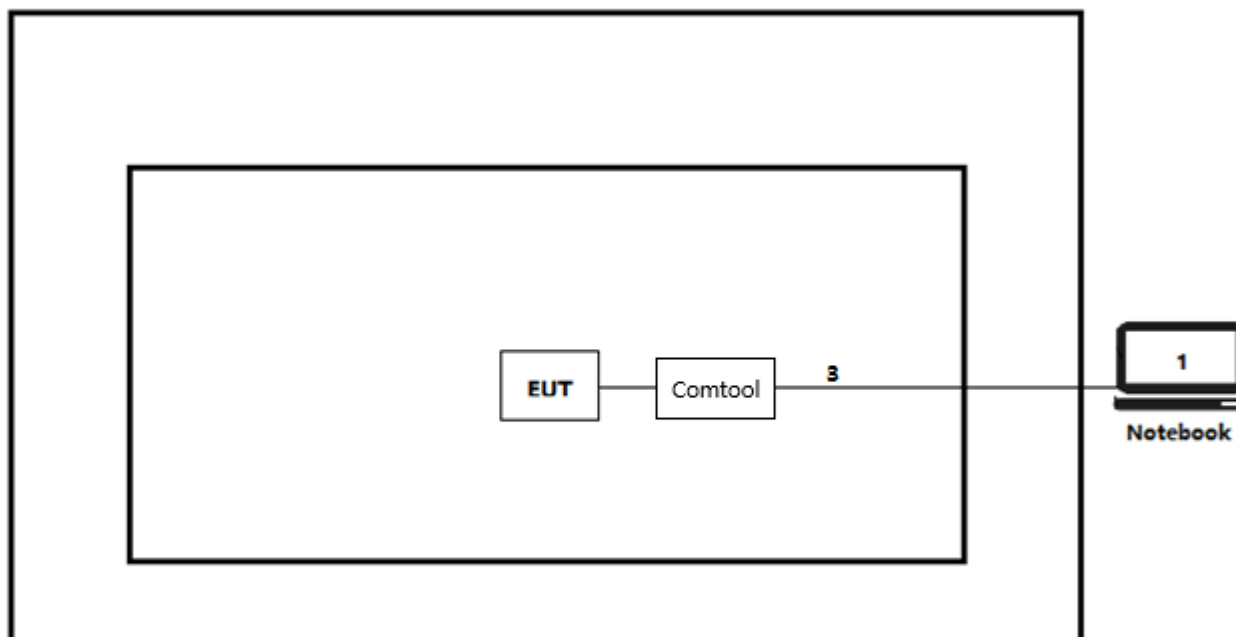
Accessories Information	Cable		
	Length used during test [m]	Attached during test	Shielded
(2)USB Control Cable	1	☒	☒
(3)USB Control Cable	8	☒	☒

2.2 Test Configuration / Block diagram used for tests

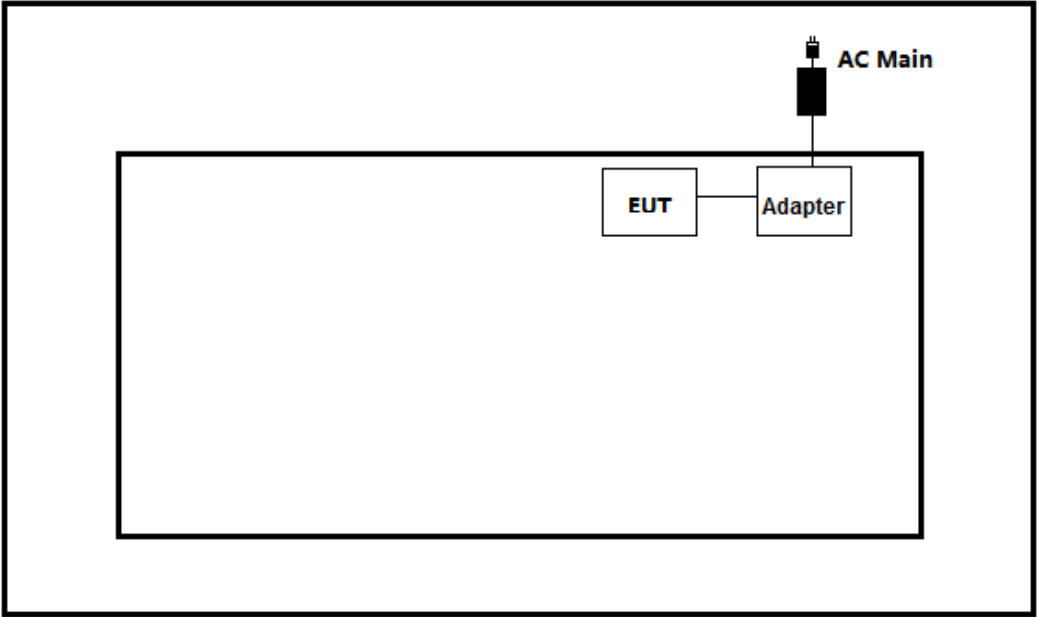
Test setup Diagram- Conducted test



Test setup Diagram- Radiated test



Test setup Diagram- AC Line Conducted Emission Test



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.
ANSI C63.10	2020	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

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 Overview of results

Requirement – Test Item	Standard(s)	Verdict	Remark
DTS Bandwidth	FCC 15.247(a)(2)	PASS	Test data please refer to Appendix A
Maximum conducted output power	15.247 (b)(3)	PASS	Test data please refer to Appendix B
Maximum power spectral density	FCC 15.247(e)	PASS	Test data please refer to Appendix C
Band edge measurements	FCC 15.247(d) FCC 15.205 FCC 15.209	PASS	Test data please refer to Appendix D
Conducted Spurious Emission	FCC 15.247(d), FCC 15.209	PASS	Test data please refer to Appendix E
Duty cycle	ANSI C63.10:2020	PASS	Test data please refer to Appendix F
Emissions in Restricted Bands	FCC 15.205 FCC 15.209	PASS	Test data please refer to Appendix G
AC Power Line Conducted Emission	FCC 15.207	PASS	Test data please refer to Appendix H
Antenna Requirement	FCC 15.203	PASS	---
Note: The radiation measurement is pre tested under X, Y, and Z axis positioning to find the worst placement for final testing.			

Mode	Frequency(MHz)	Power Setting
BLE 1M	2402	31
	2440	33
	2480	35
BLE 2M	2402	31
	2440	33
	2480	35

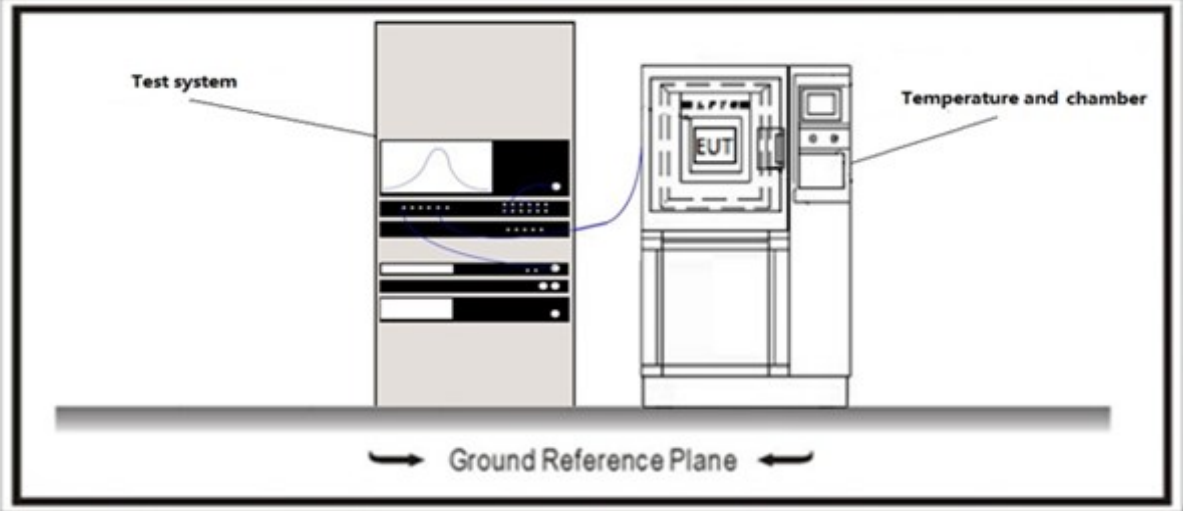
3.4 Test Facility

FCC Designation Number: CN1199

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);
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

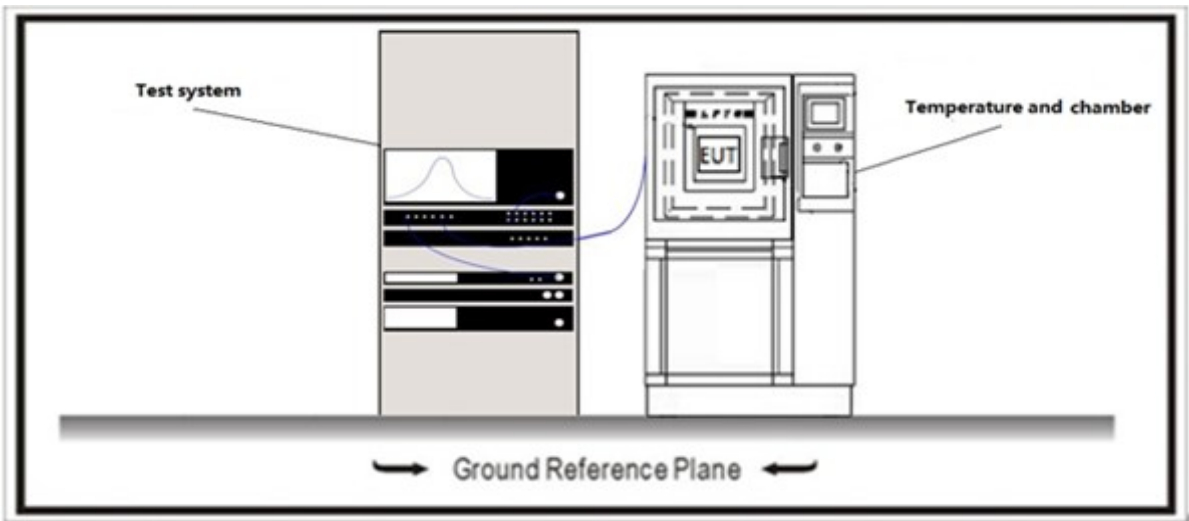
VERDICT: PASS

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

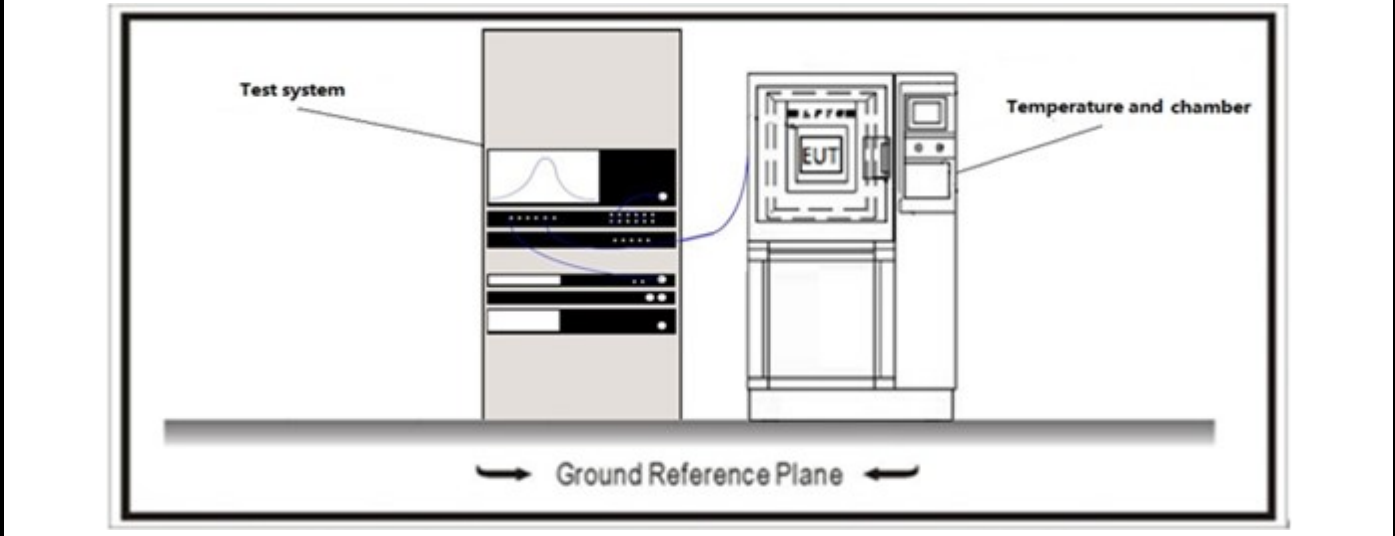
VERDICT: PASS

4.3.1 Limit

Standard		FCC Part 15 Subpart C Paragraph 15.247 (b)(3);
☒	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

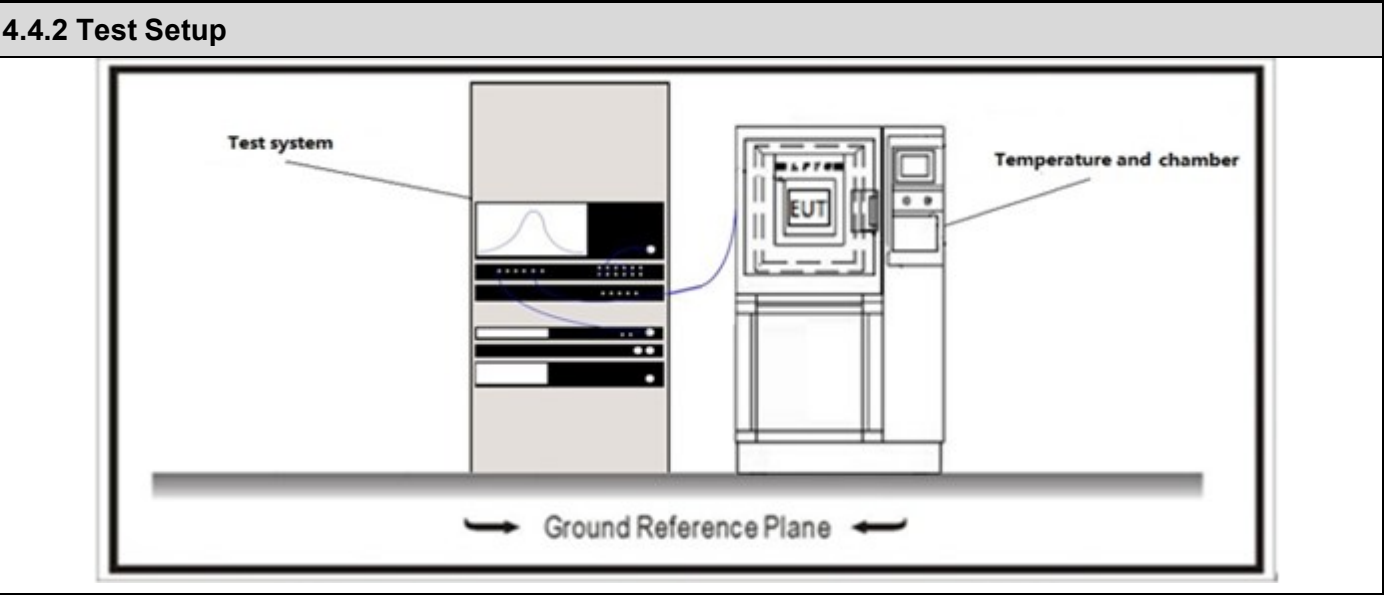


4.3.3 Test Procedure

	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);
Power Spectral Density≤8dBm/3kHz	



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≥98%)
	☐	ANSI C63.10	11.10.4	Method AVGPSD-1A(Duty cycle≥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

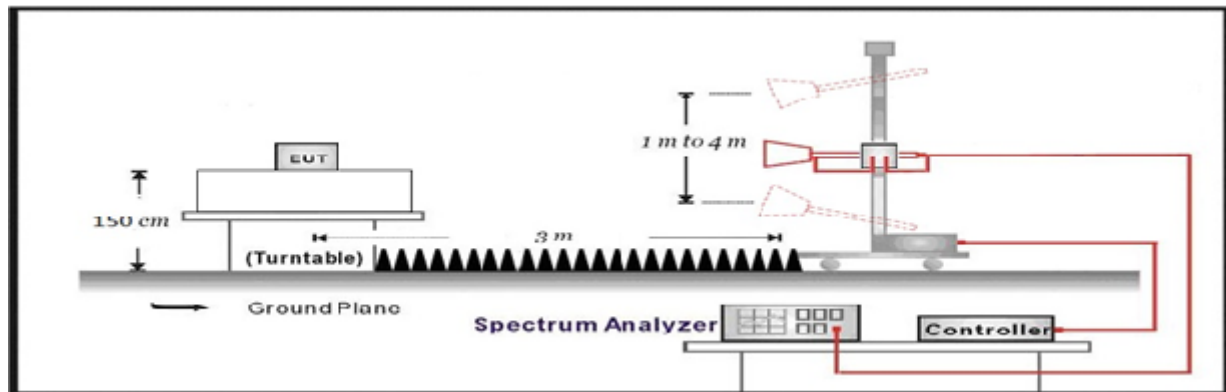
4.5.1 Limit

Standard		FCC Part 15 Subpart C Paragraph 15.247(d) , 15.209;		
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

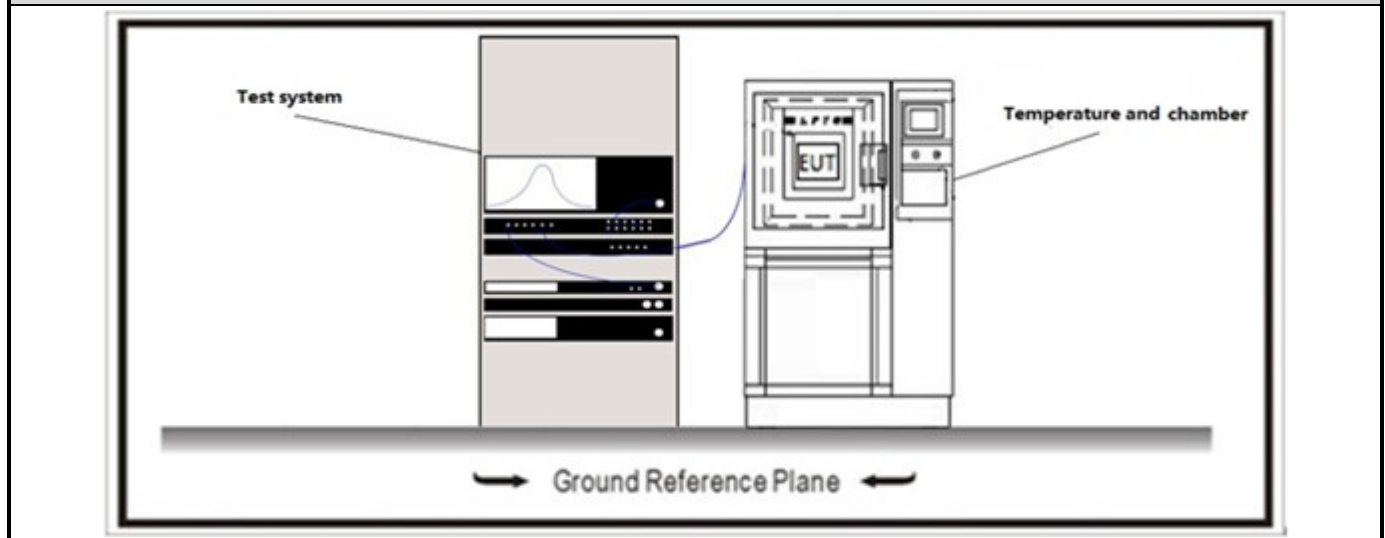
	References Rule	Chapter	Description
☒	ANSI C63.10	6.10	Band-edge testing
☒	ANSI C63.10	6.10.5	Restricted-band band-edge measurements
☐	ANSI C63.10	6.10.6	Marker-delta method
☒	ANSI C63.10	11.12	Emissions in restricted frequency bands
☒	ANSI C63.10	11.12.1	Radiated emission measurements
☒	ANSI C63.10	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);
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

The diagram illustrates the test setup. On the left, a 'Test system' is shown, which includes a computer monitor displaying a waveform and several control units below it. On the right, a 'Temperature and chamber' is depicted, featuring a control panel and a chamber door with 'EUT' (Equipment Under Test) visible inside. A blue line connects the test system to the chamber. Below these components, a horizontal line with arrows at both ends is labeled 'Ground Reference Plane'.

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			

Restricted Band Emissions Limit

FCC Part 15 Subpart C Paragraph 15.209

Frequency (MHz)	Field strength (μV/m)	Field strength (dBμV/m)	Measurement distance (m)
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300 _(Note 1)
0.49 - 1.705	24000/F(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)

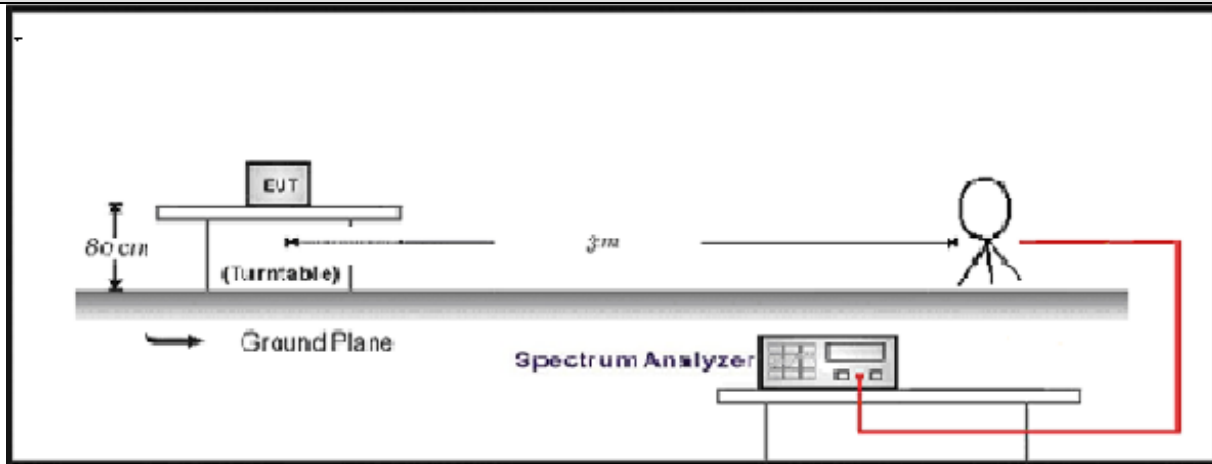
Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed 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.

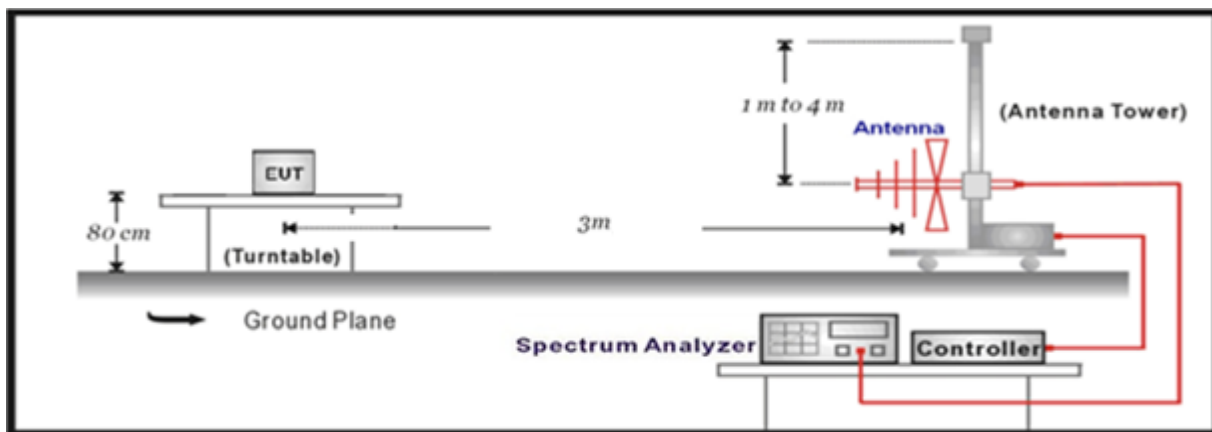
Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified 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

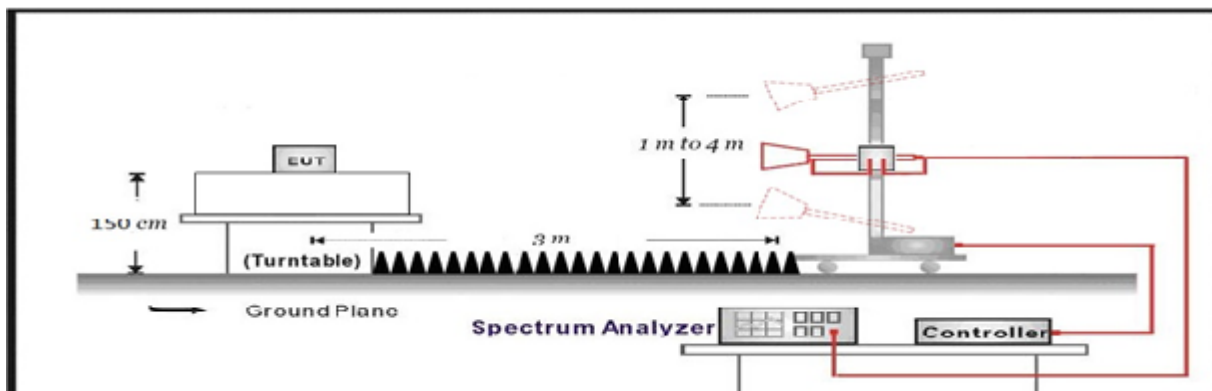
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:

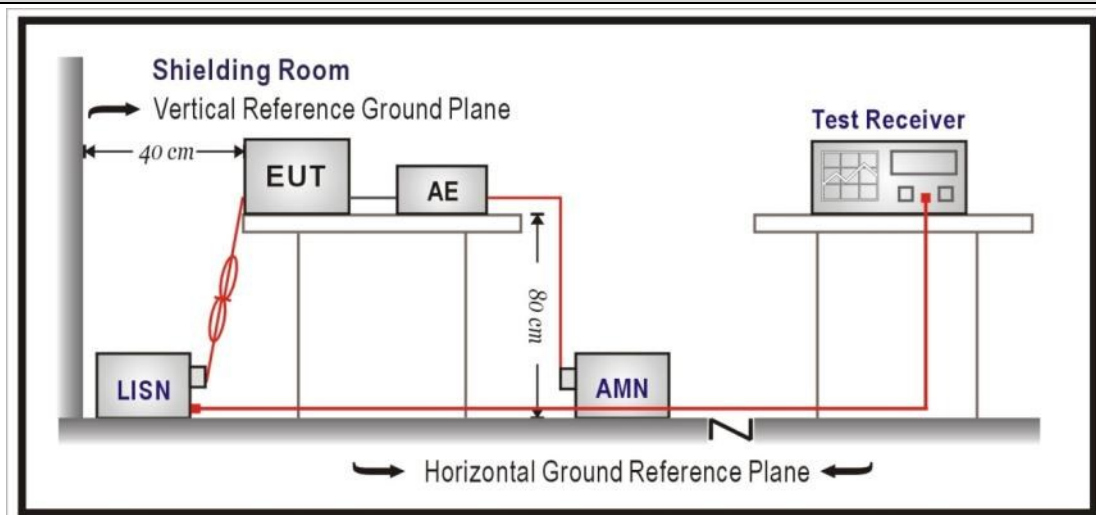


4.8.3 Test Procedure

	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 ;	
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	6.2	Standard test method for ac power-line conducted emissions from unlicensed wireless devices

4.10 Antenna Requirement**VERDICT: NA****4.10.1 Limit:**

Standard	FCC Part 15 Subpart C Paragraph 15.203;
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 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

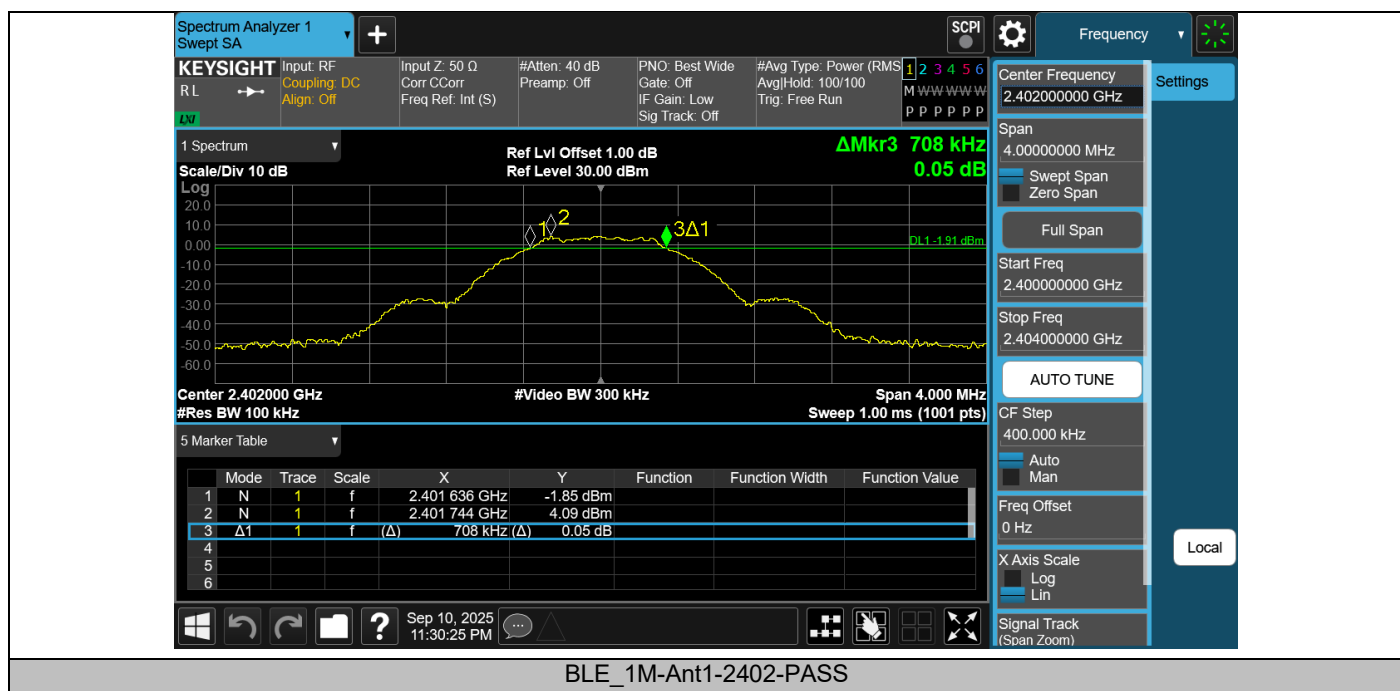
Remark: The test setup photo and EUT Photo please see appendix.

6 TEST RESULT

Appendix A: DTS Bandwidth

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.708	2401.636	2402.344	0.5	PASS
BLE_1M	Ant1	2440	0.704	2439.636	2440.340	0.5	PASS
BLE_1M	Ant1	2480	0.640	2479.672	2480.312	0.5	PASS
BLE_2M	Ant1	2402	1.360	2401.312	2402.672	0.5	PASS
BLE_2M	Ant1	2440	1.120	2439.440	2440.560	0.5	PASS
BLE_2M	Ant1	2480	1.136	2479.428	2480.564	0.5	PASS

Test Graphs





BLE_1M-Ant1-2440-PASS



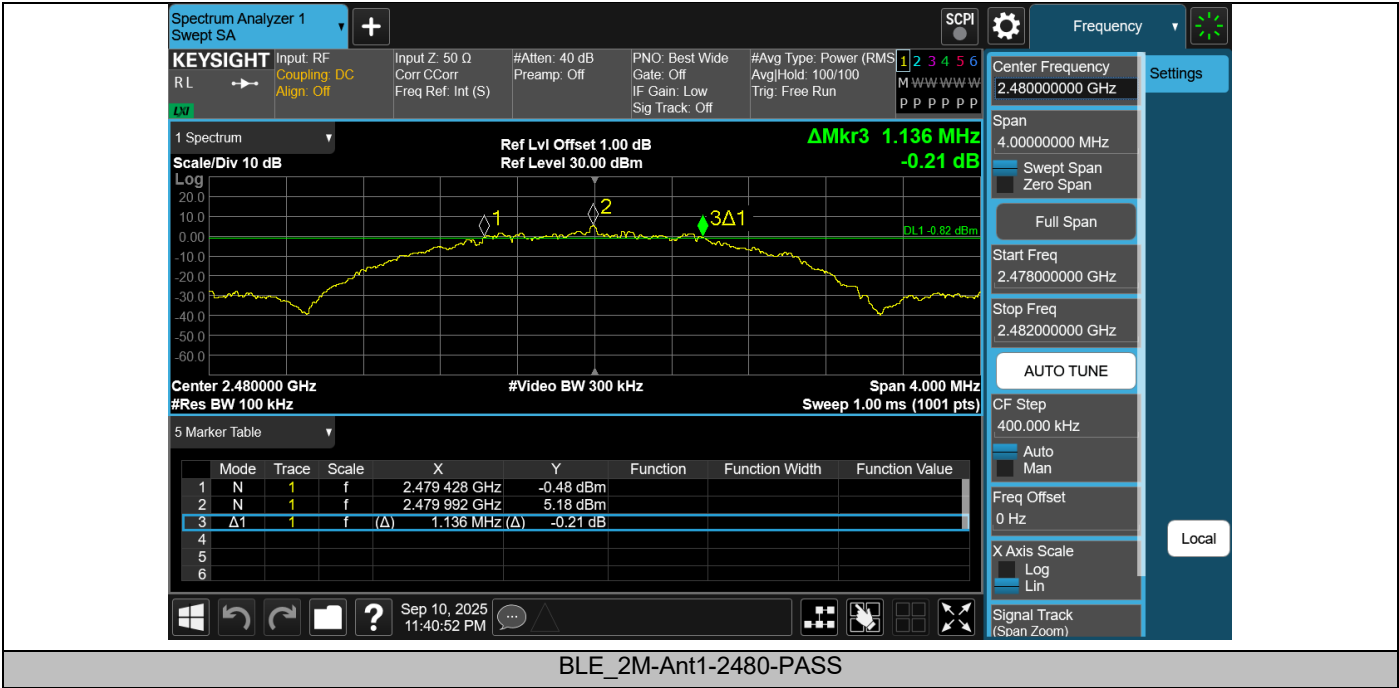
BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



Appendix B: Maximum conducted output power

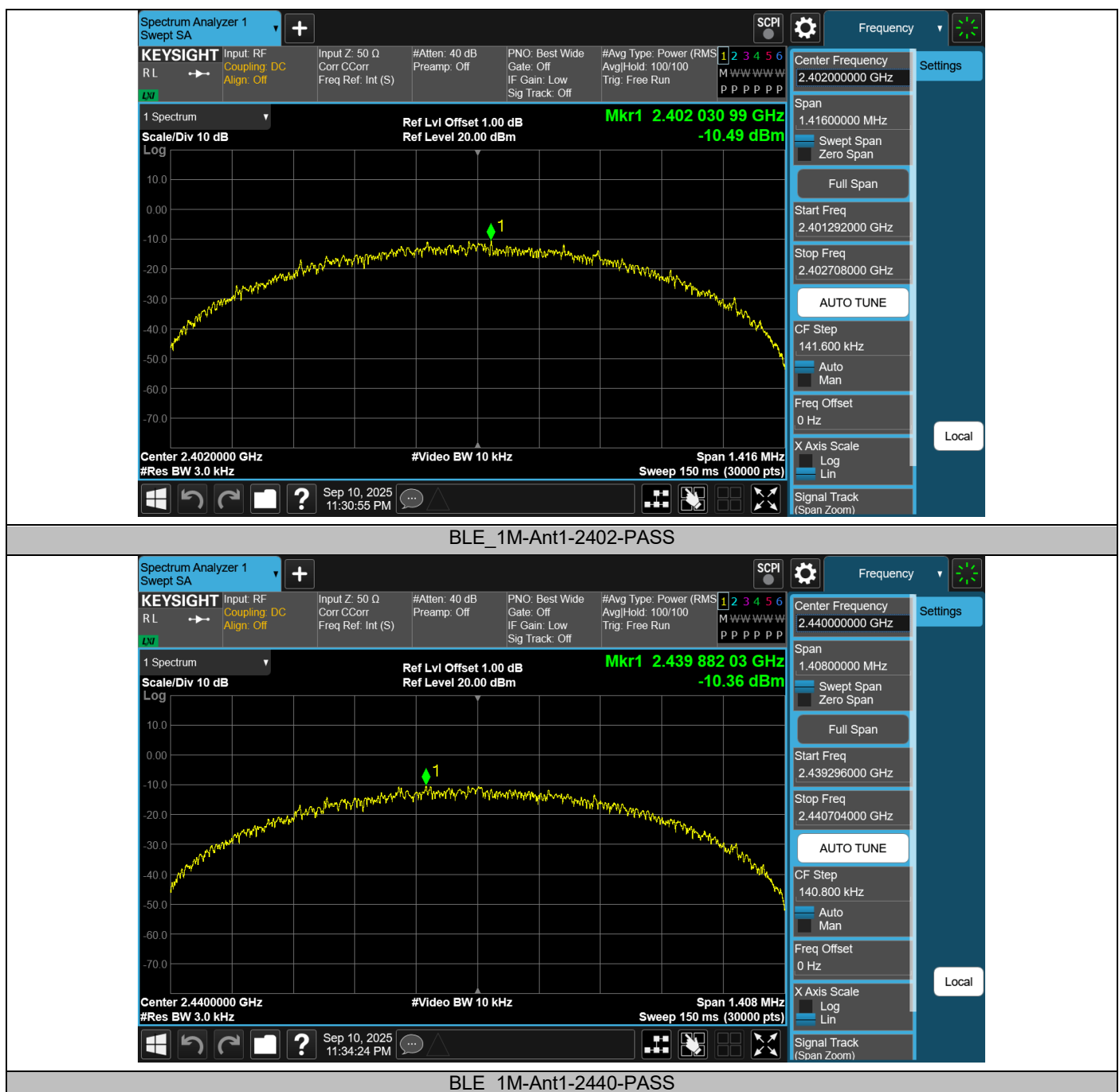
TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	5.10	≤30	5.53	≤36	PASS
BLE_1M	Ant1	2440	5.83	≤30	6.26	≤36	PASS
BLE_1M	Ant1	2480	5.96	≤30	6.39	≤36	PASS
BLE_2M	Ant1	2402	5.07	≤30	5.50	≤36	PASS
BLE_2M	Ant1	2440	5.41	≤30	5.84	≤36	PASS
BLE_2M	Ant1	2480	5.56	≤30	5.99	≤36	PASS

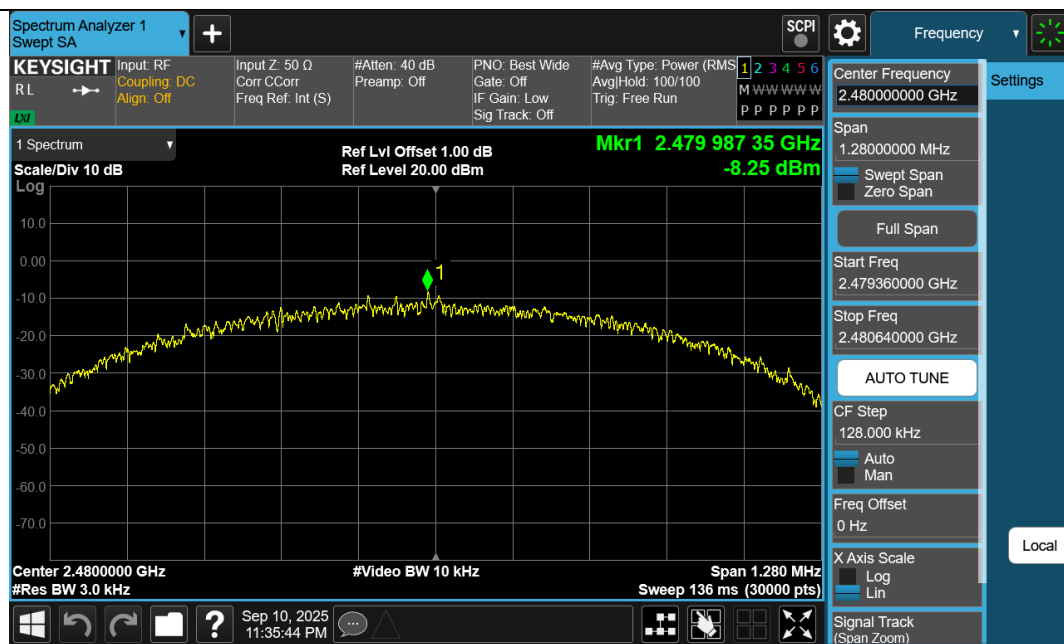
Note: EIRP [dBm] = Conducted Power [dBm] + Antenna Gain [dBi], Please refer to Chapter 1 for antenna gain.

Appendix C: Maximum power spectral density

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-10.49	≤8.00	PASS
BLE_1M	Ant1	2440	-10.36	≤8.00	PASS
BLE_1M	Ant1	2480	-8.25	≤8.00	PASS
BLE_2M	Ant1	2402	-12.38	≤8.00	PASS
BLE_2M	Ant1	2440	-11.88	≤8.00	PASS
BLE_2M	Ant1	2480	-12.44	≤8.00	PASS

Test Graphs

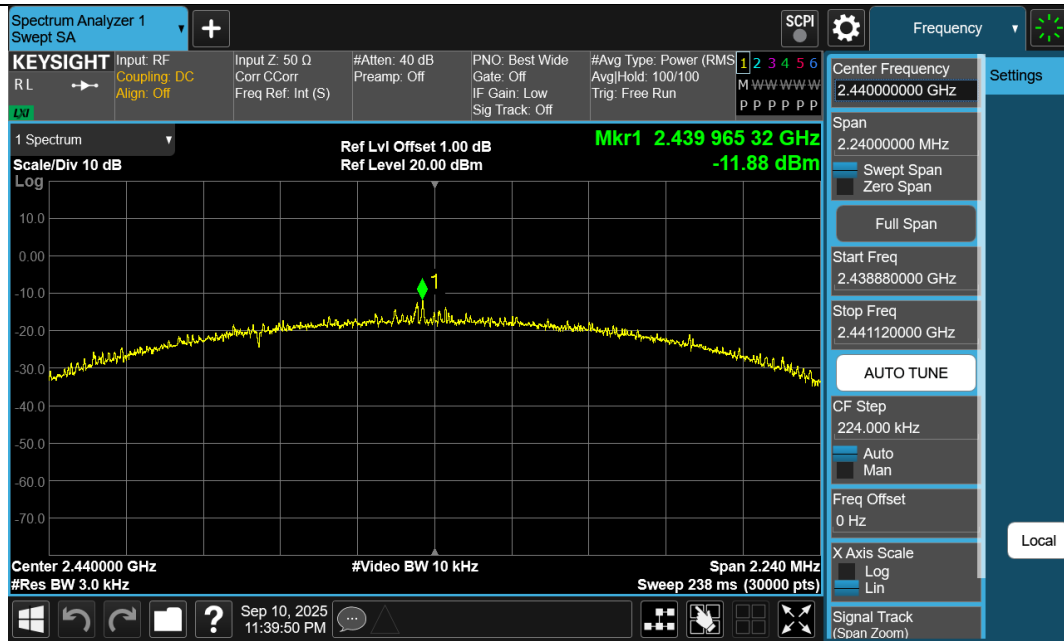




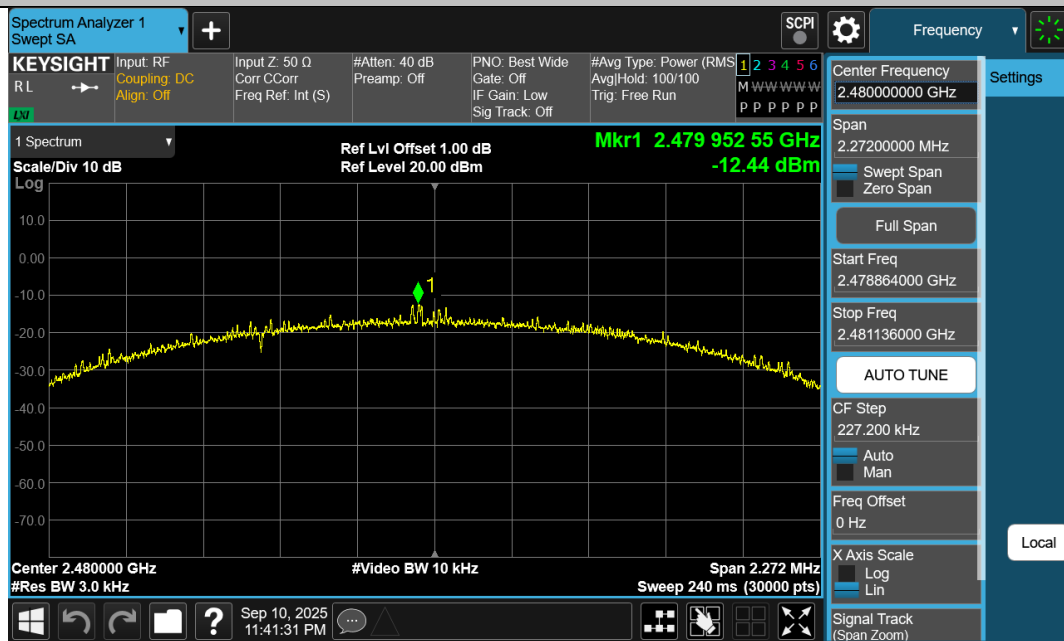
BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS

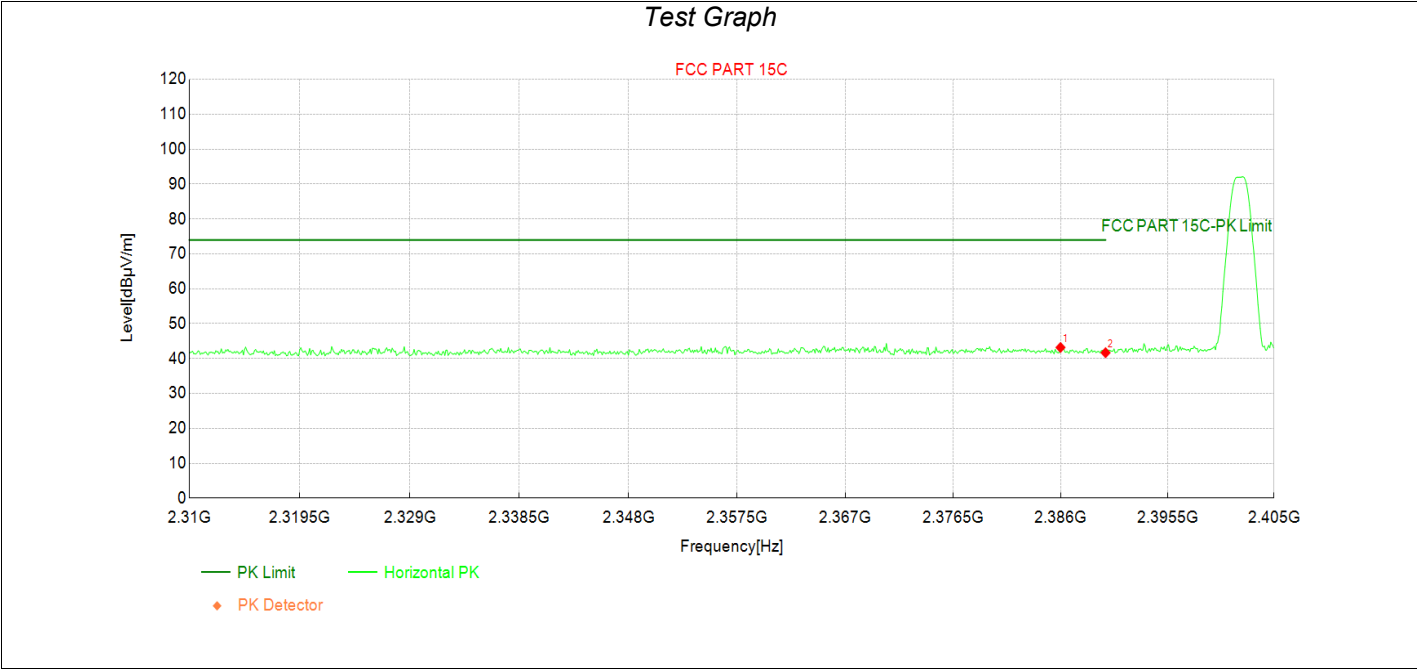


BLE_2M-Ant1-2440-PASS



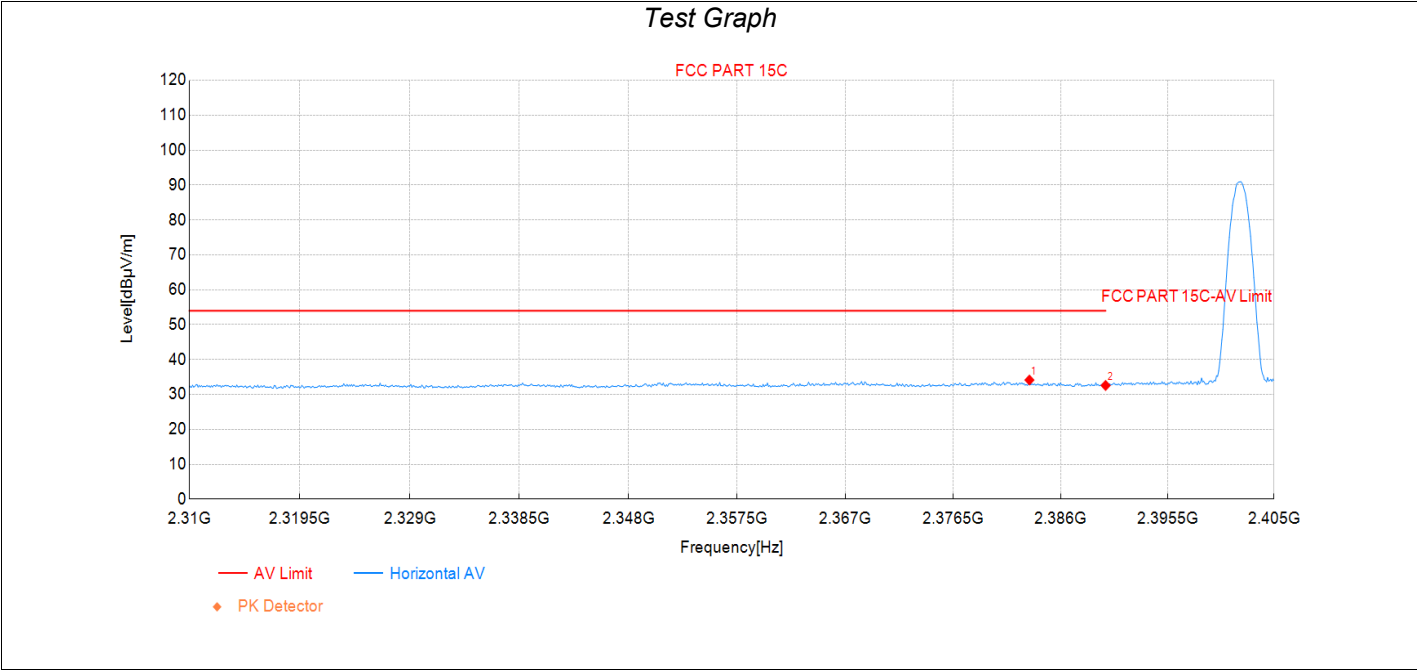
BLE_2M-Ant1-2480-PASS

Appendix D: Band edge measurements
Transmit at 2402MHz by LE_1Mbps



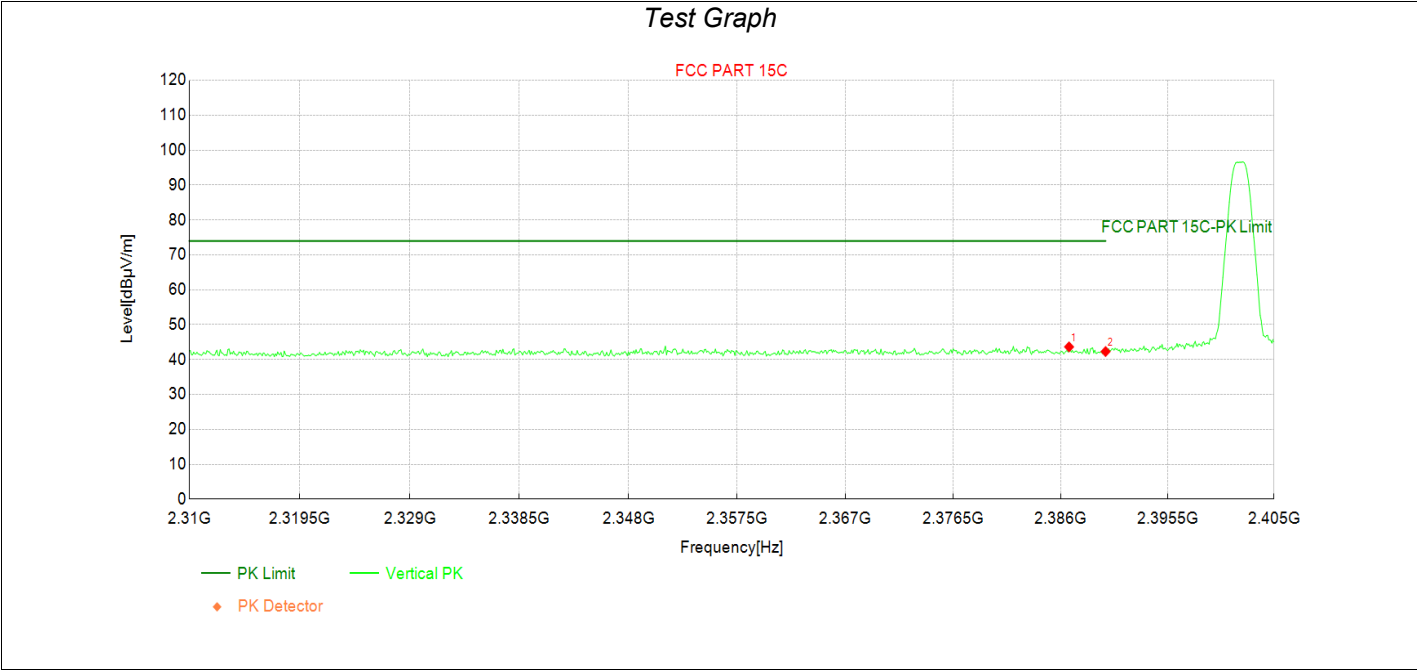
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2386.00	37.98	43.18	5.20	74.00	30.82	PK	Horizo	PASS
2	2390.00	36.45	41.68	5.23	74.00	32.32	PK	Horizo	PASS

Transmit at 2402MHz by LE_1Mbps



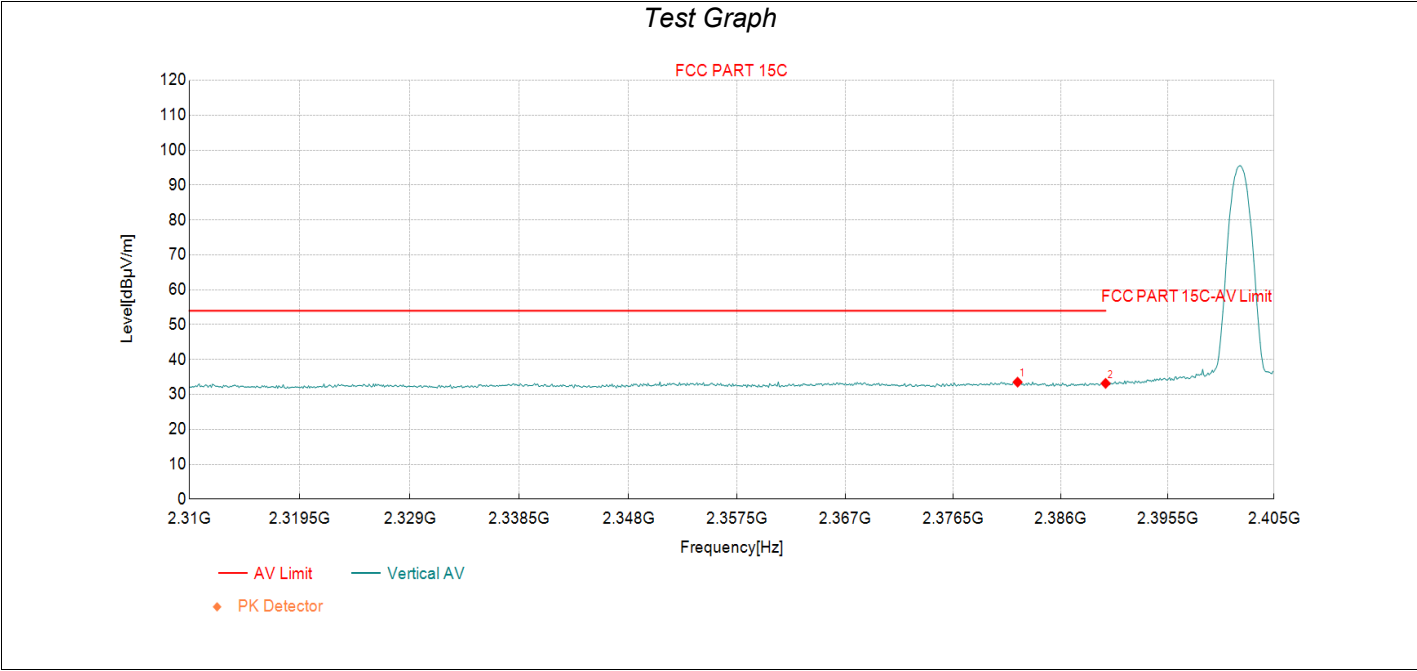
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2383.25	28.95	34.13	5.18	54.00	19.87	AV	Horizo	PASS
2	2390.00	27.35	32.58	5.23	54.00	21.42	AV	Horizo	PASS

Transmit at 2402MHz by LE_1Mbps



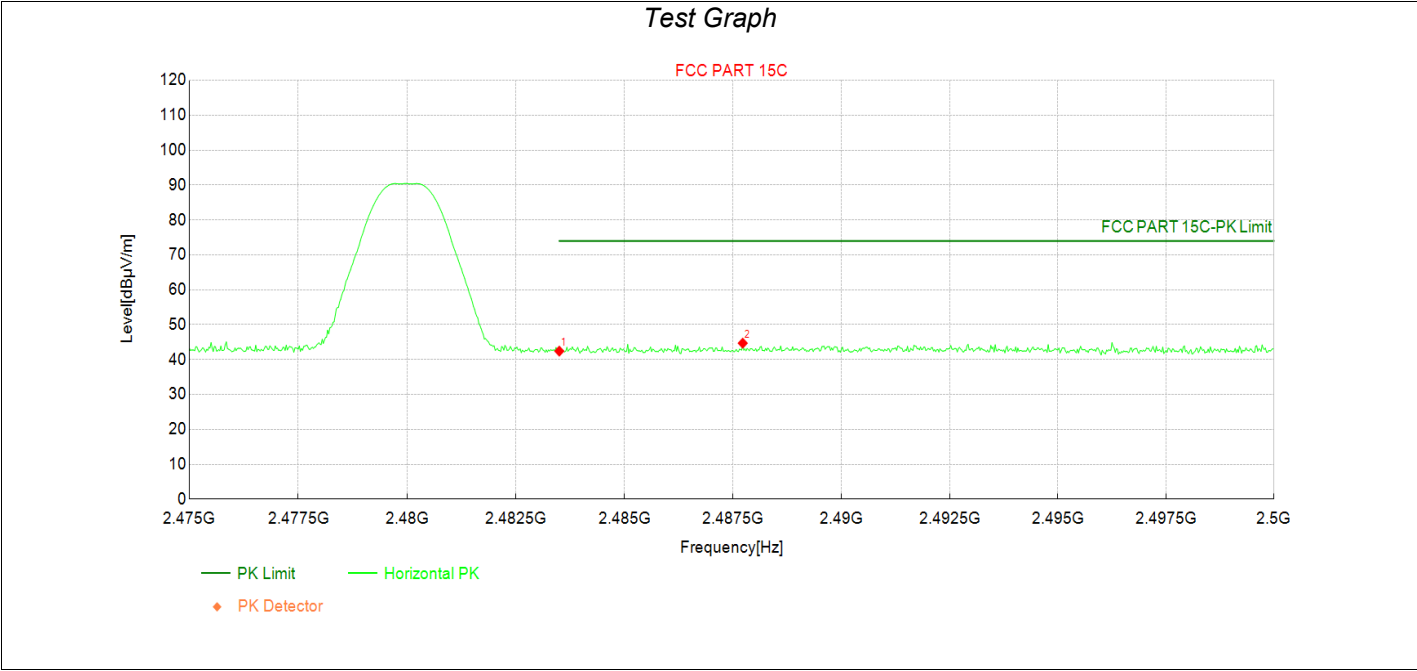
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2386.76	38.42	43.63	5.21	74.00	30.37	PK	Vertic	PASS
2	2390.00	37.07	42.30	5.23	74.00	31.70	PK	Vertic	PASS

Transmit at 2402MHz by LE_1Mbps



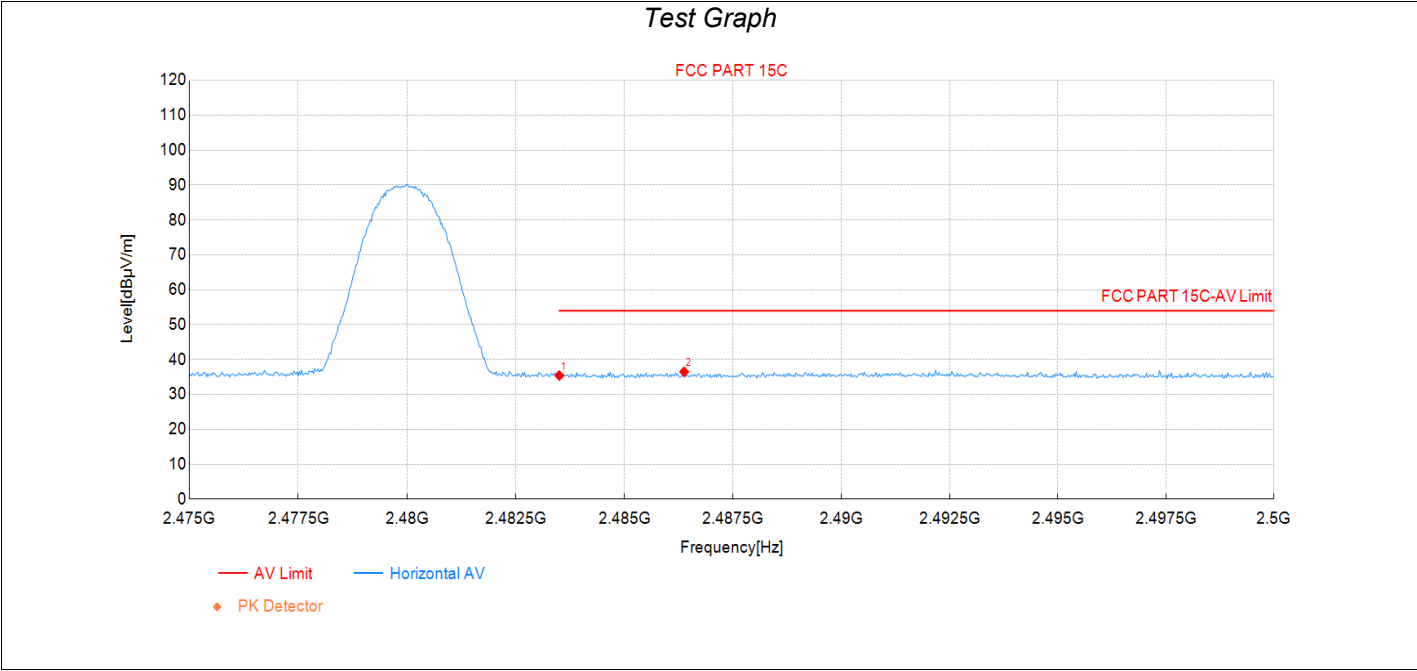
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2382.20	28.35	33.53	5.18	54.00	20.47	AV	Vertic	PASS
2	2390.00	27.95	33.18	5.23	54.00	20.82	AV	Vertic	PASS

Transmit at 2480MHz by LE_1Mbps



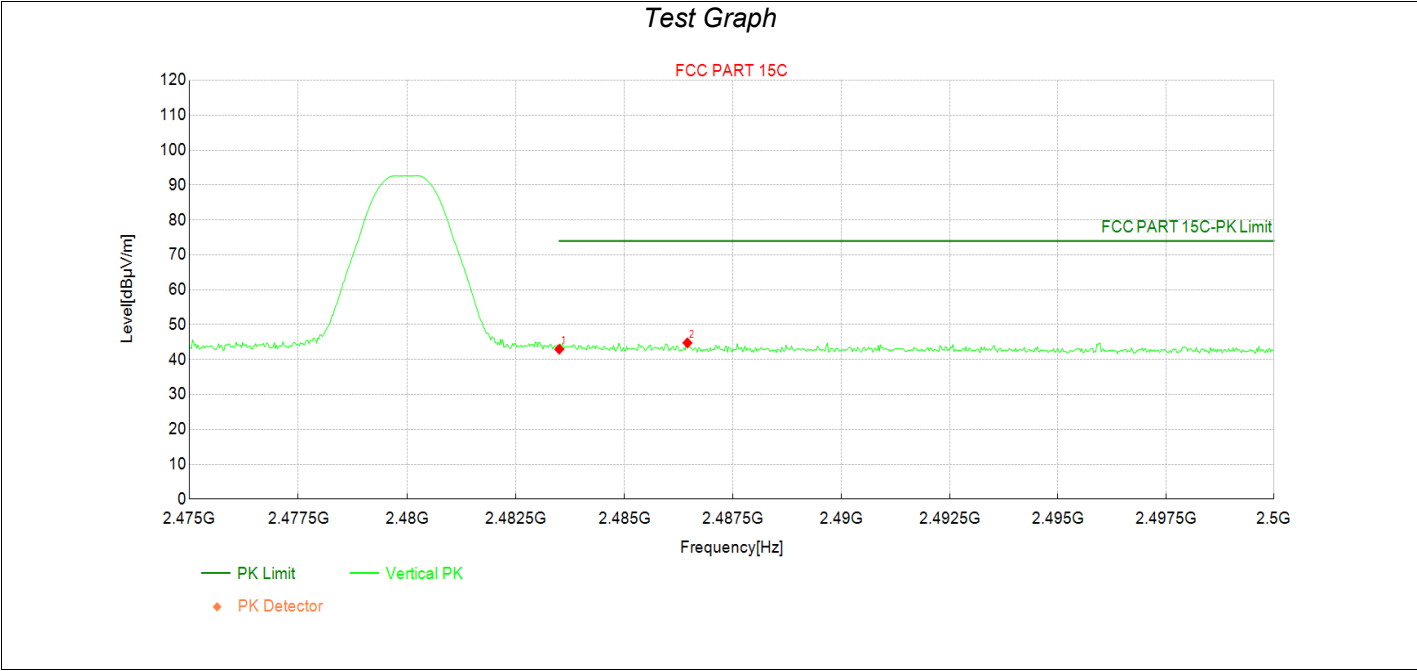
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	36.82	42.41	5.59	74.00	31.59	PK	Horizo	PASS
2	2487.73	39.09	44.70	5.61	74.00	29.30	PK	Horizo	PASS

Transmit at 2480MHz by LE_1Mbps



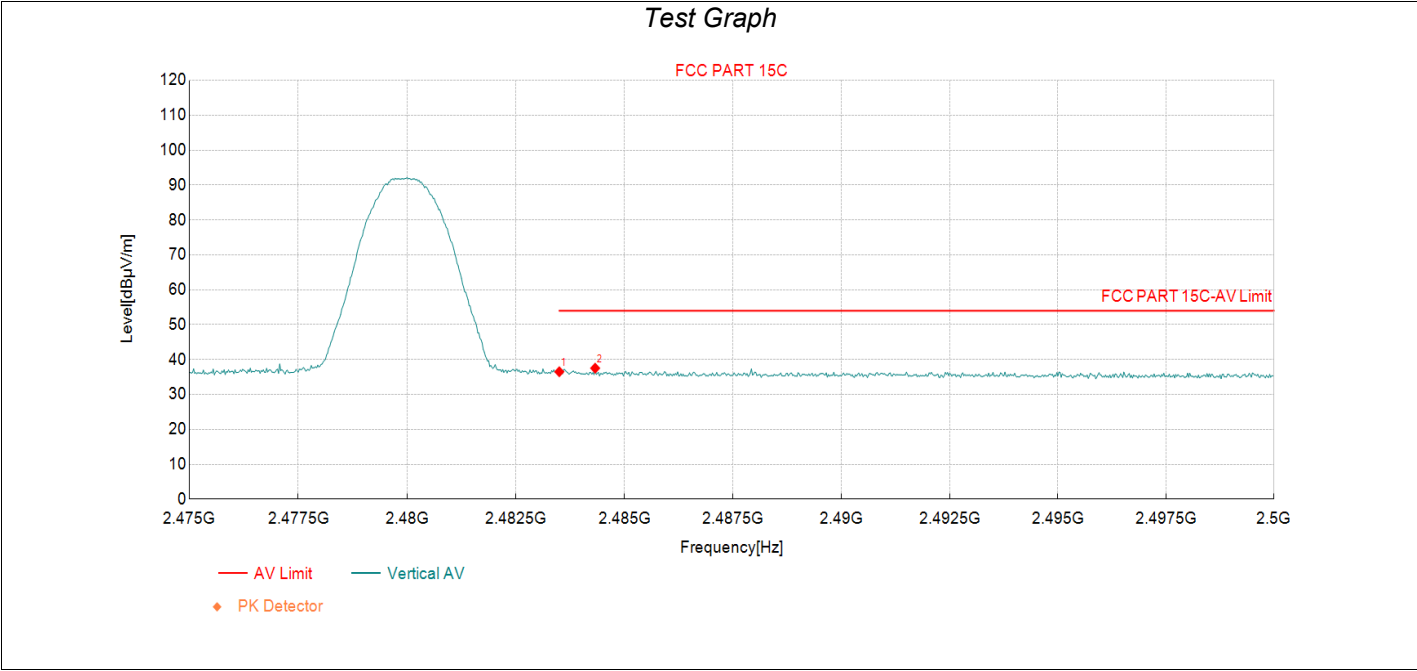
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	29.84	35.43	5.59	54.00	18.57	AV	Horizo	PASS
2	2486.38	30.90	36.51	5.61	54.00	17.49	AV	Horizo	PASS

Transmit at 2480MHz by LE_1Mbps



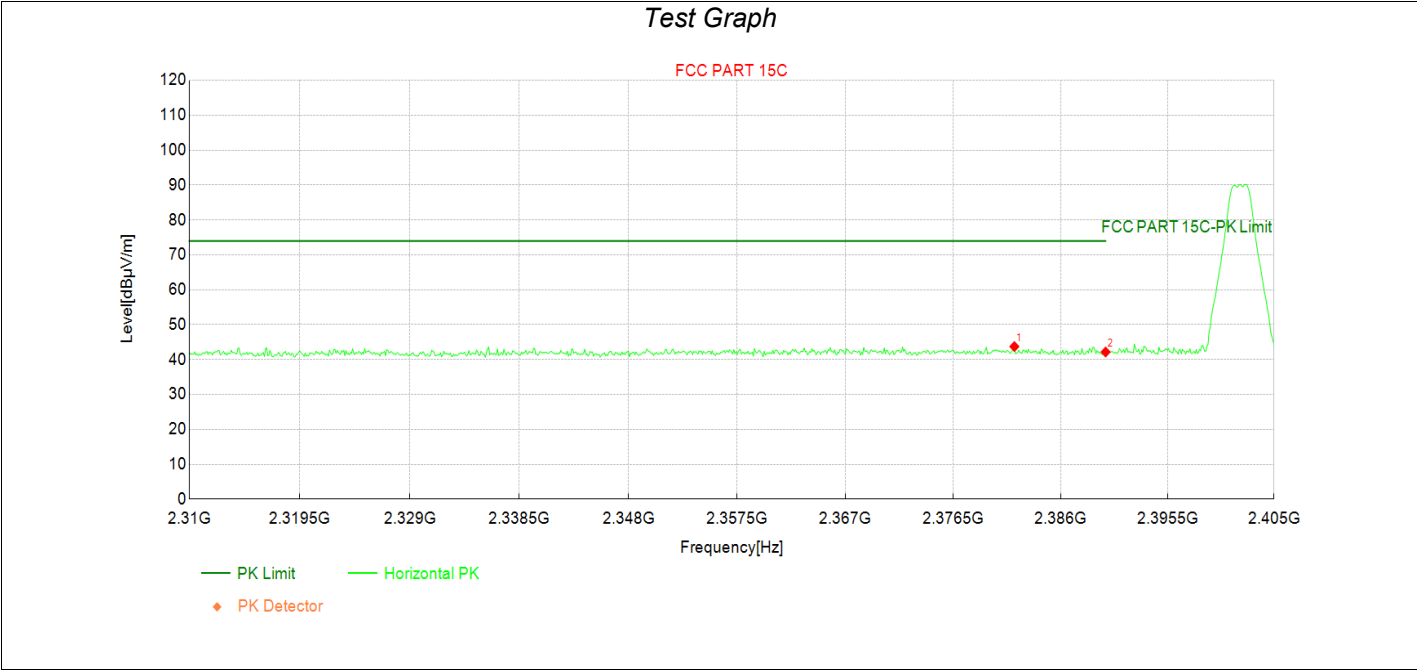
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	37.37	42.96	5.59	74.00	31.04	PK	Vertic	PASS
2	2486.45	39.16	44.77	5.61	74.00	29.23	PK	Vertic	PASS

Transmit at 2480MHz by LE_1Mbps



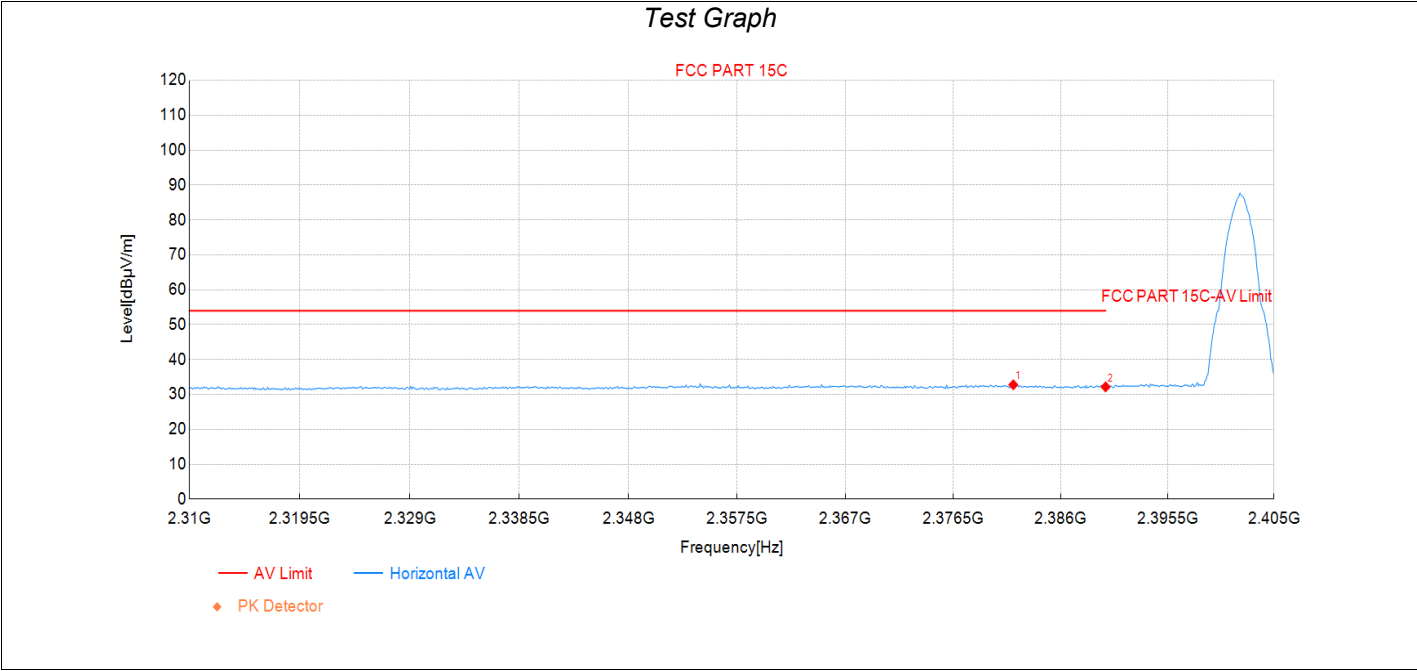
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	30.92	36.51	5.59	54.00	17.49	AV	Vertic	PASS
2	2484.33	31.93	37.53	5.60	54.00	16.47	AV	Vertic	PASS

Transmit at 2402MHz by LE_2Mbps



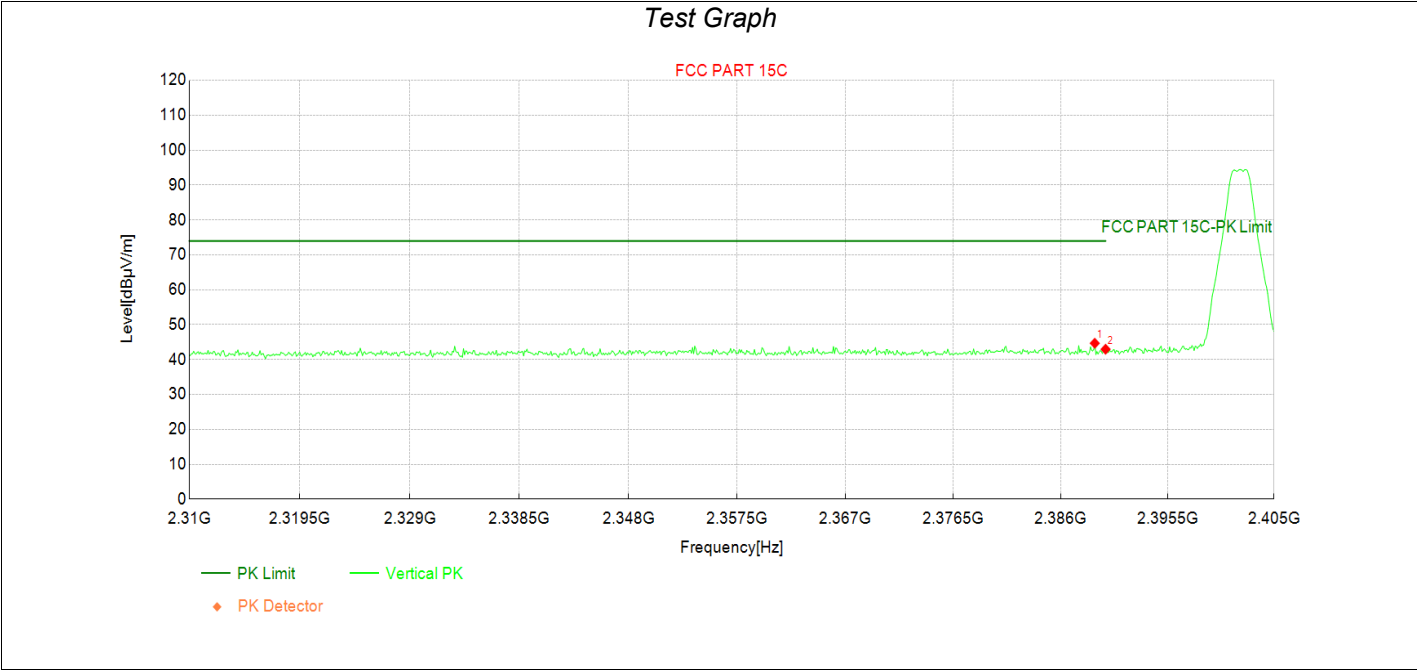
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2381.92	38.54	43.72	5.18	74.00	30.28	PK	Horizo	PASS
2	2390.00	36.94	42.17	5.23	74.00	31.83	PK	Horizo	PASS

Transmit at 2402MHz by LE_2Mbps



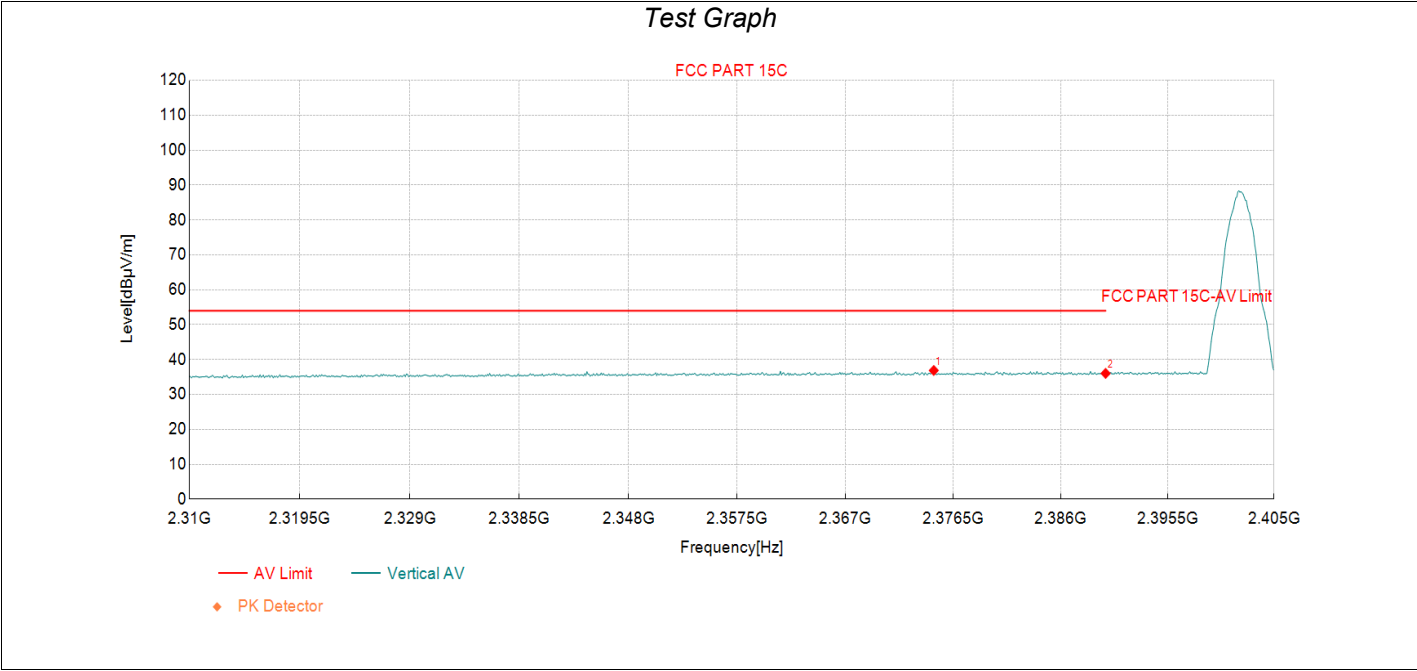
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2381.82	27.60	32.78	5.18	54.00	21.22	AV	Horizo	PASS
2	2390.00	26.94	32.17	5.23	54.00	21.83	AV	Horizo	PASS

Transmit at 2402MHz by LE_2Mbps



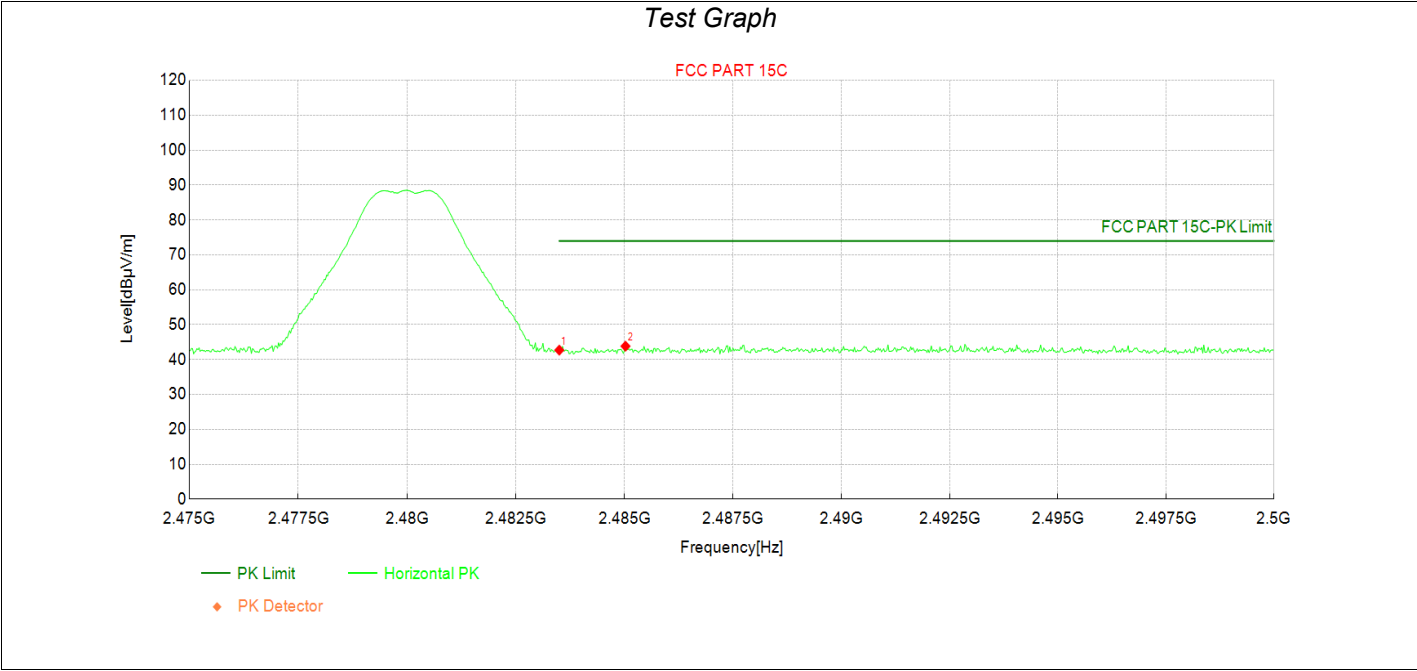
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2389.04	39.45	44.67	5.22	74.00	29.33	PK	Vertic	PASS
2	2390.00	37.73	42.96	5.23	74.00	31.04	PK	Vertic	PASS

Transmit at 2402MHz by LE_2Mbps



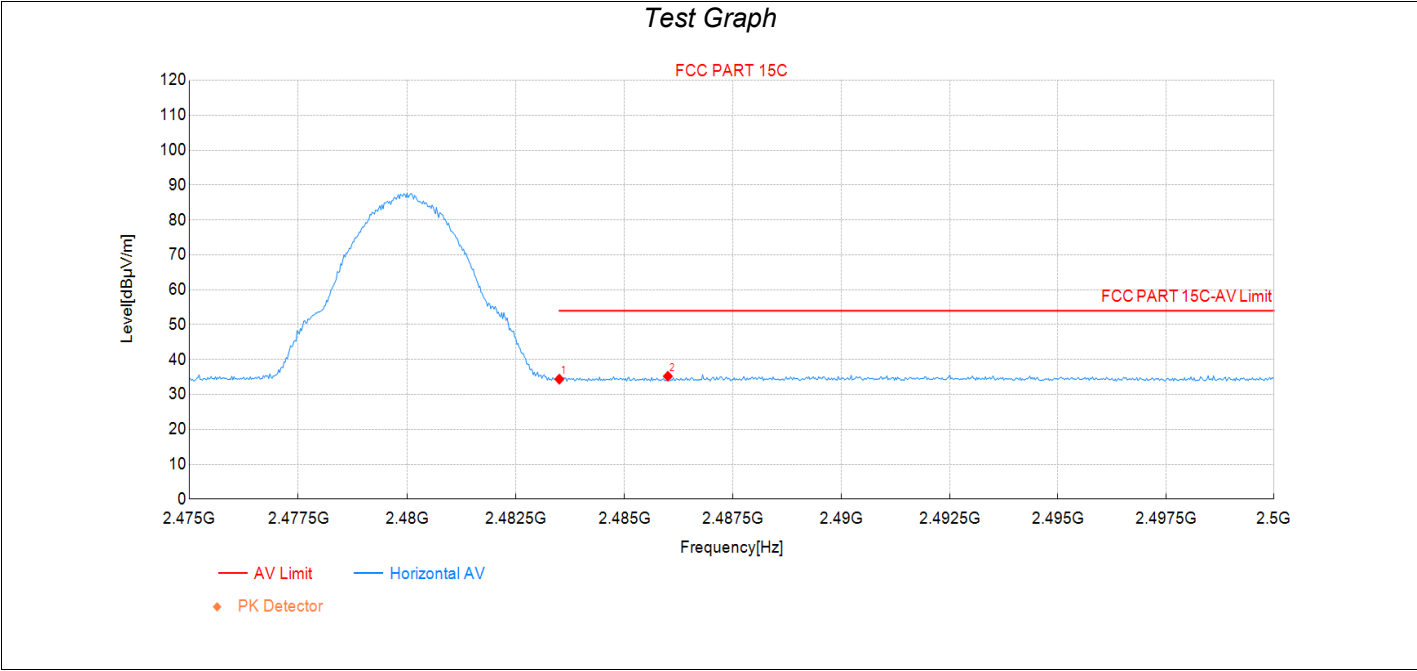
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2374.79	31.74	36.88	5.14	54.00	17.12	AV	Vertic	PASS
2	2390.00	30.80	36.03	5.23	54.00	17.97	AV	Vertic	PASS

Transmit at 2480MHz by LE_2Mbps



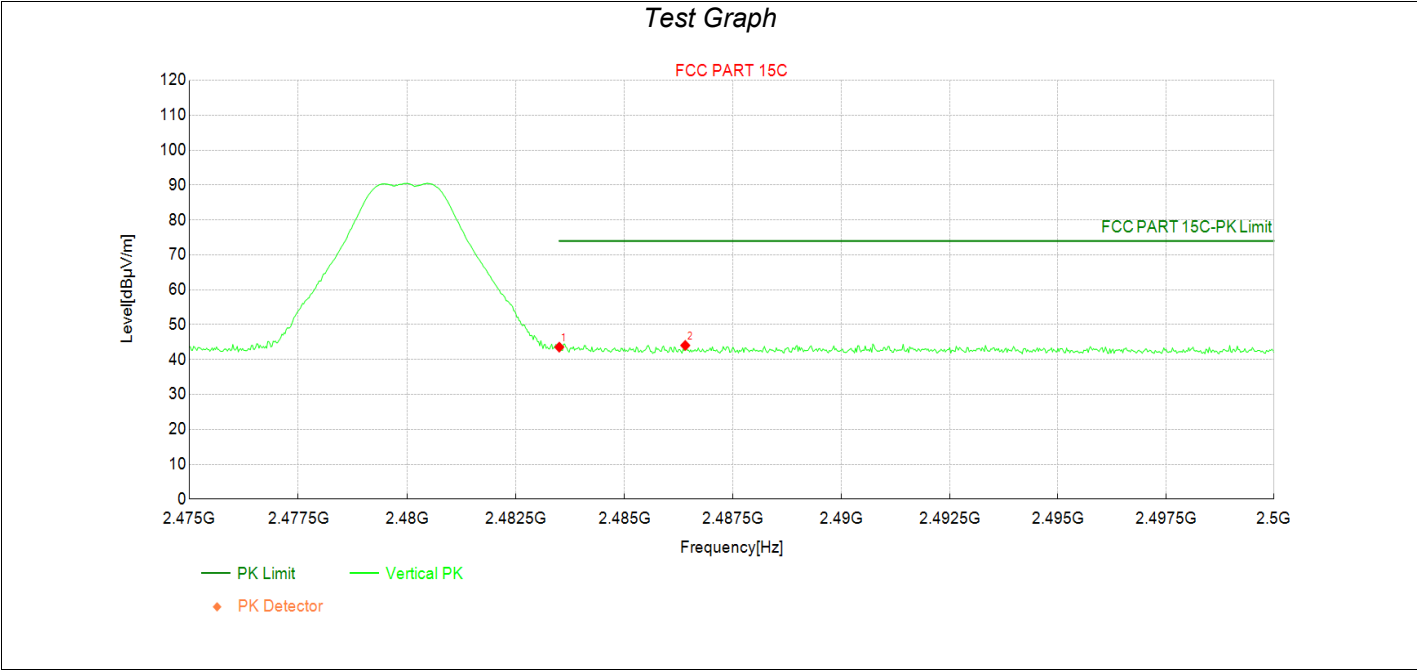
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	37.11	42.70	5.59	74.00	31.30	PK	Horizo	PASS
2	2485.03	38.22	43.83	5.61	74.00	30.17	PK	Horizo	PASS

Transmit at 2480MHz by LE_2Mbps



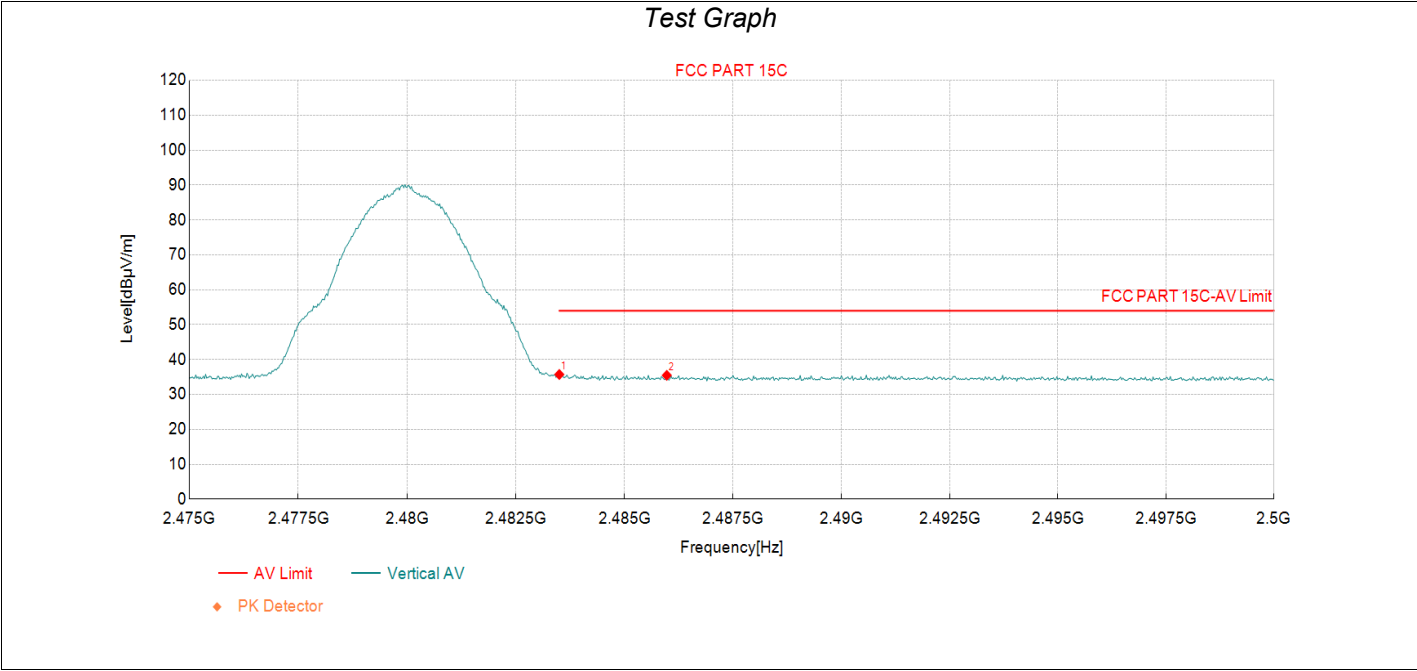
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	28.78	34.37	5.59	54.00	19.63	AV	Horizo	PASS
2	2486.00	29.61	35.22	5.61	54.00	18.78	AV	Horizo	PASS

Transmit at 2480MHz by LE_2Mbps



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	37.97	43.56	5.59	74.00	30.44	PK	Vertic	PASS
2	2486.40	38.44	44.05	5.61	74.00	29.95	PK	Vertic	PASS

Transmit at 2480MHz by LE_2Mbps



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	30.13	35.72	5.59	54.00	18.28	AV	Vertic	PASS
2	2485.98	29.87	35.48	5.61	54.00	18.52	AV	Vertic	PASS

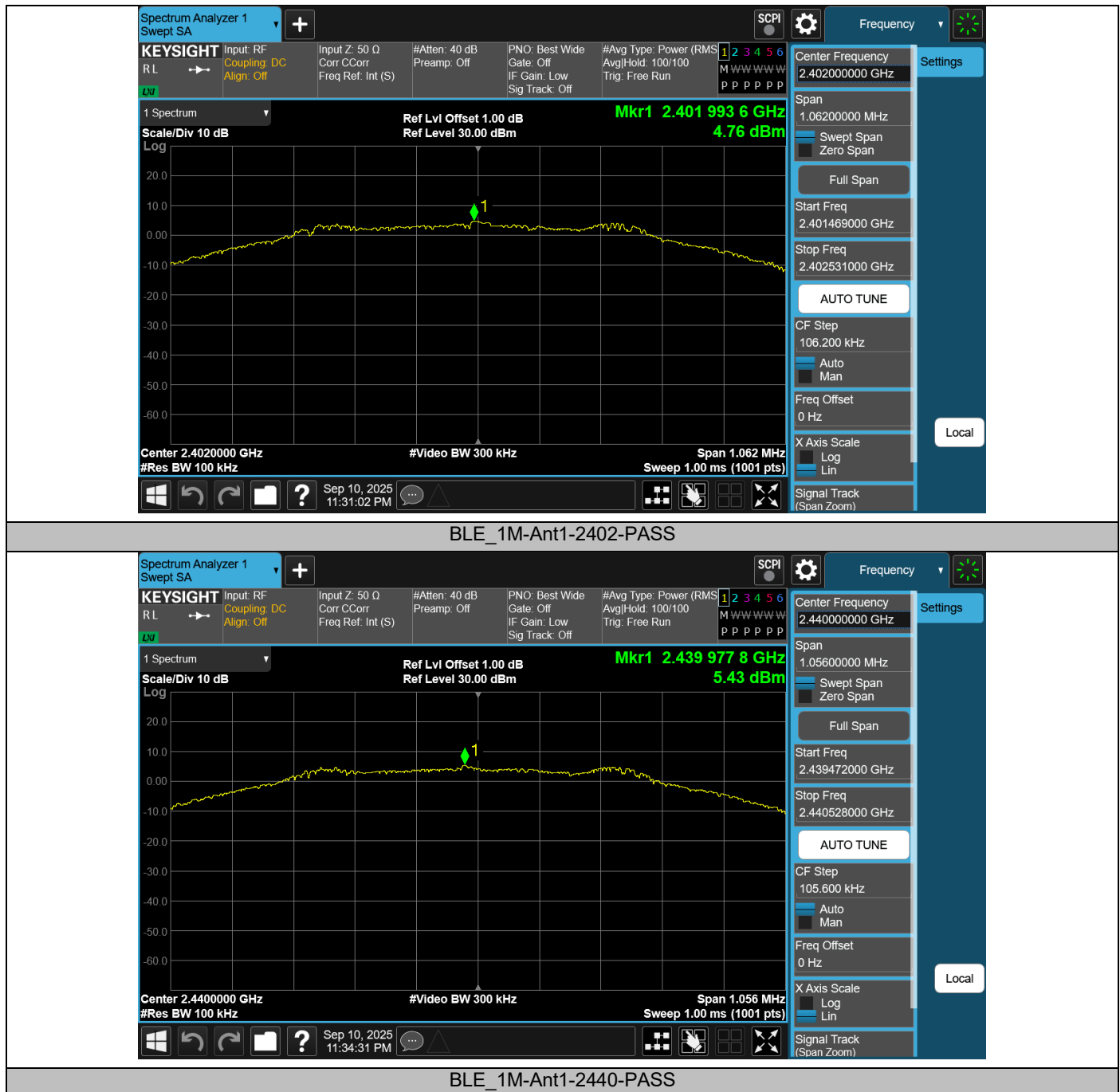
Note:

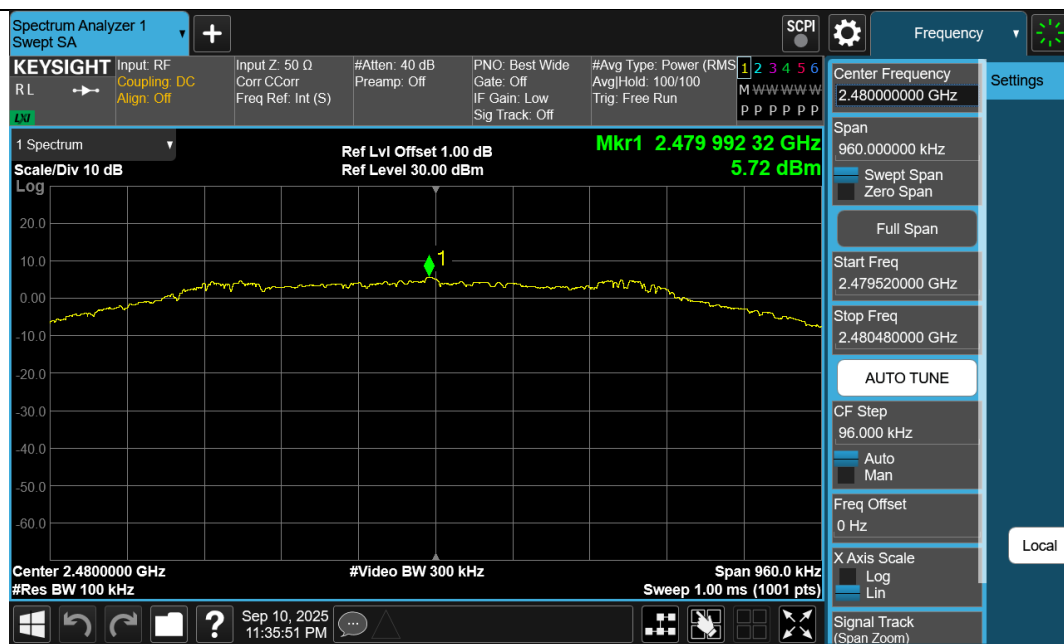
1.Level=Reading+Factor .

2. Margin=Limit-Level.

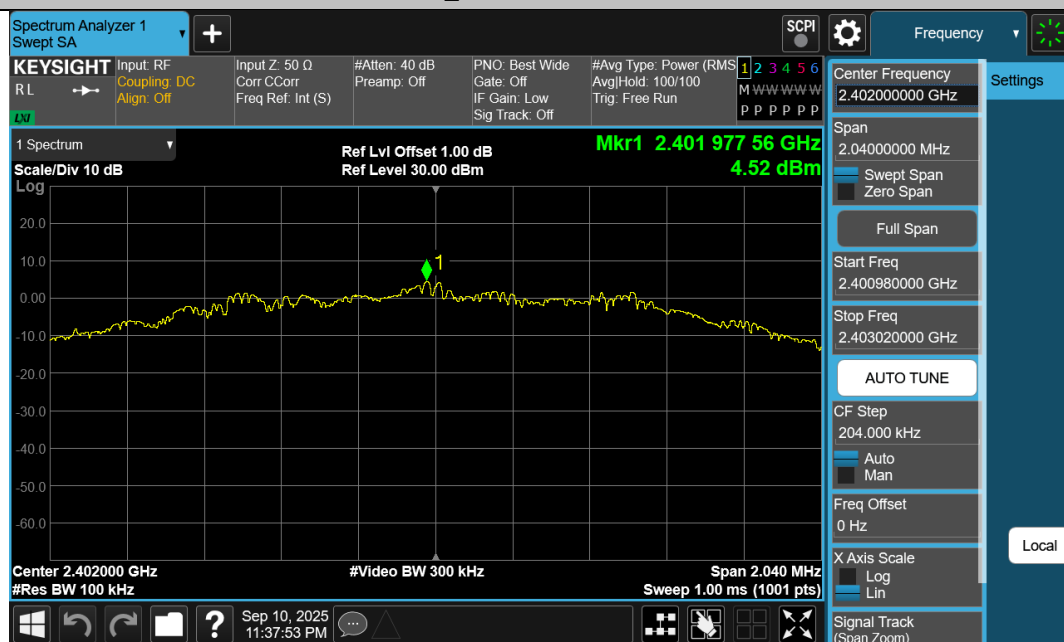
Appendix E: Conducted Spurious Emission

Test Graphs for Reference level

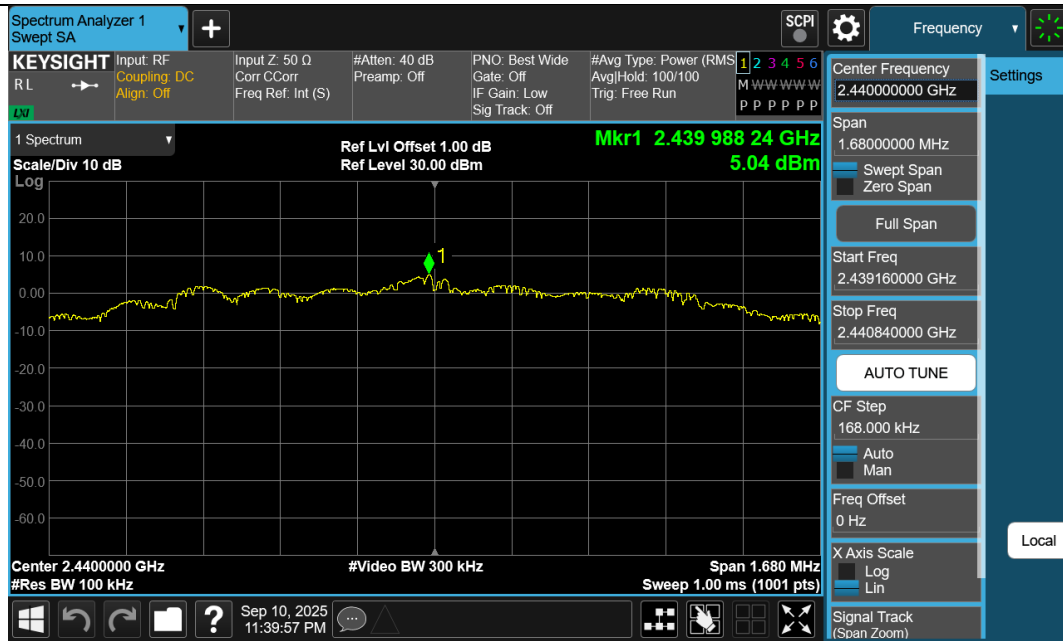




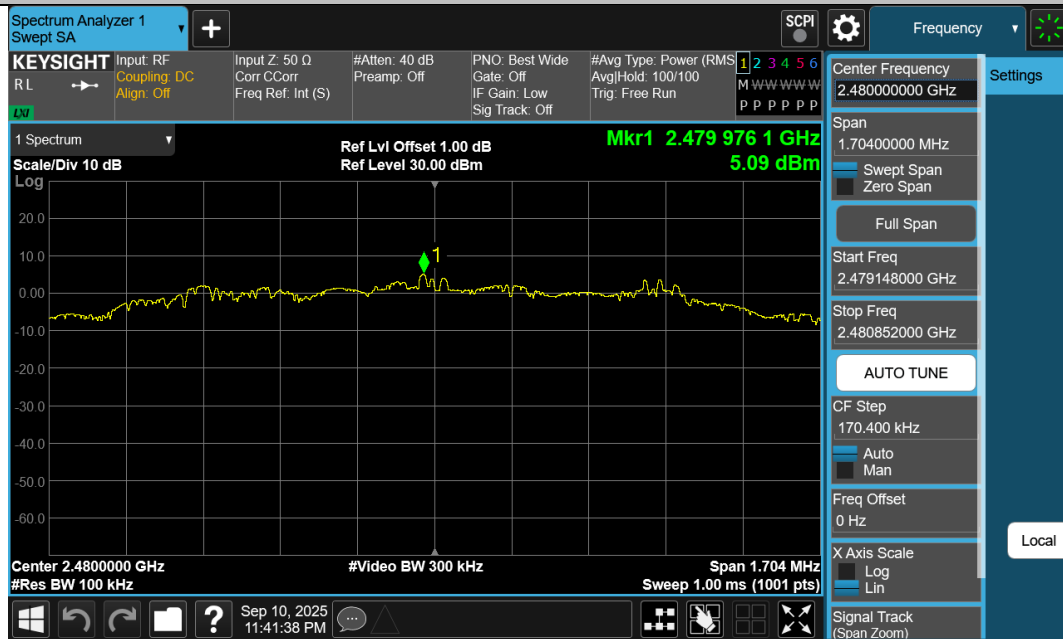
BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



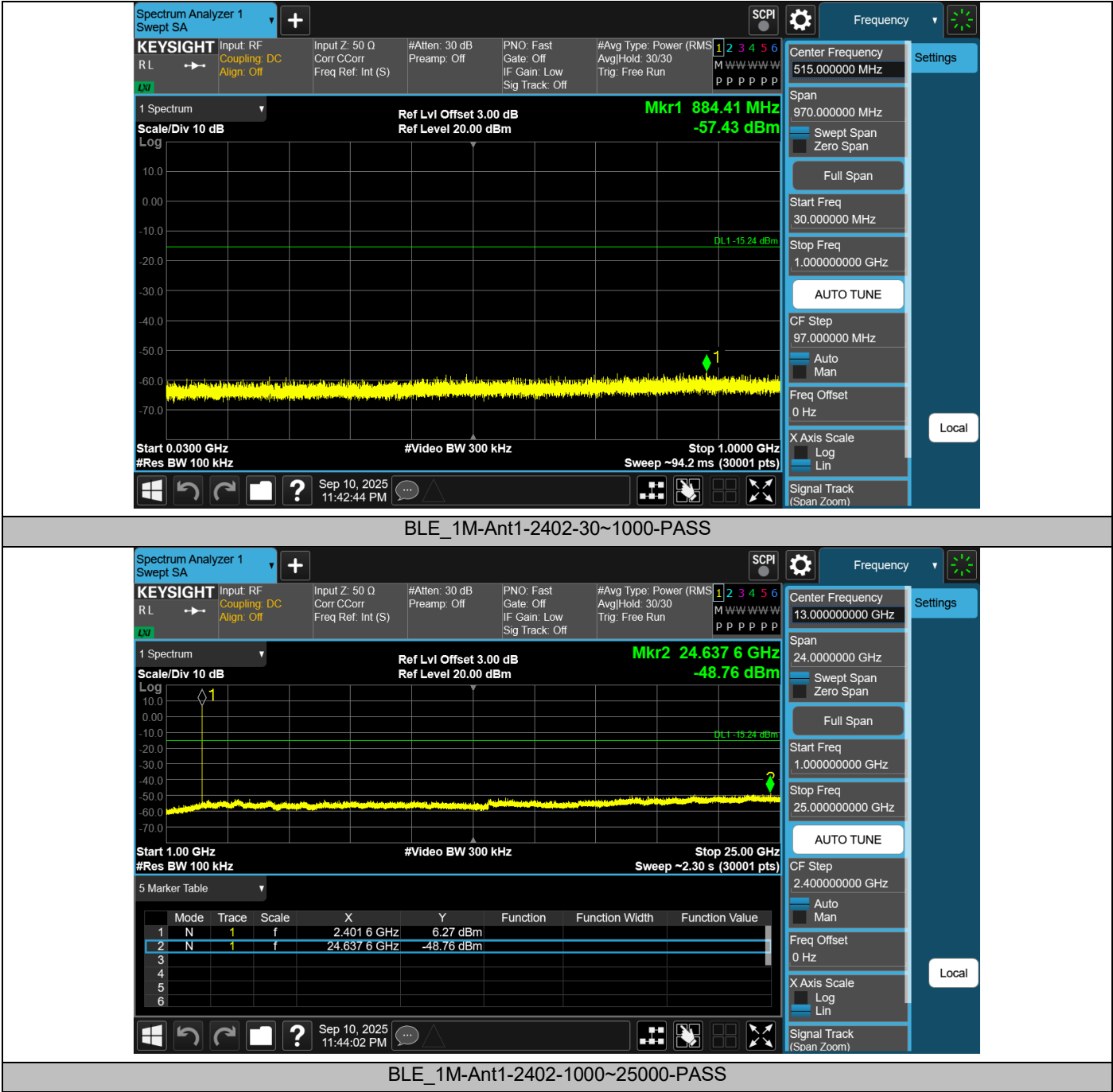
BLE_2M-Ant1-2440-PASS

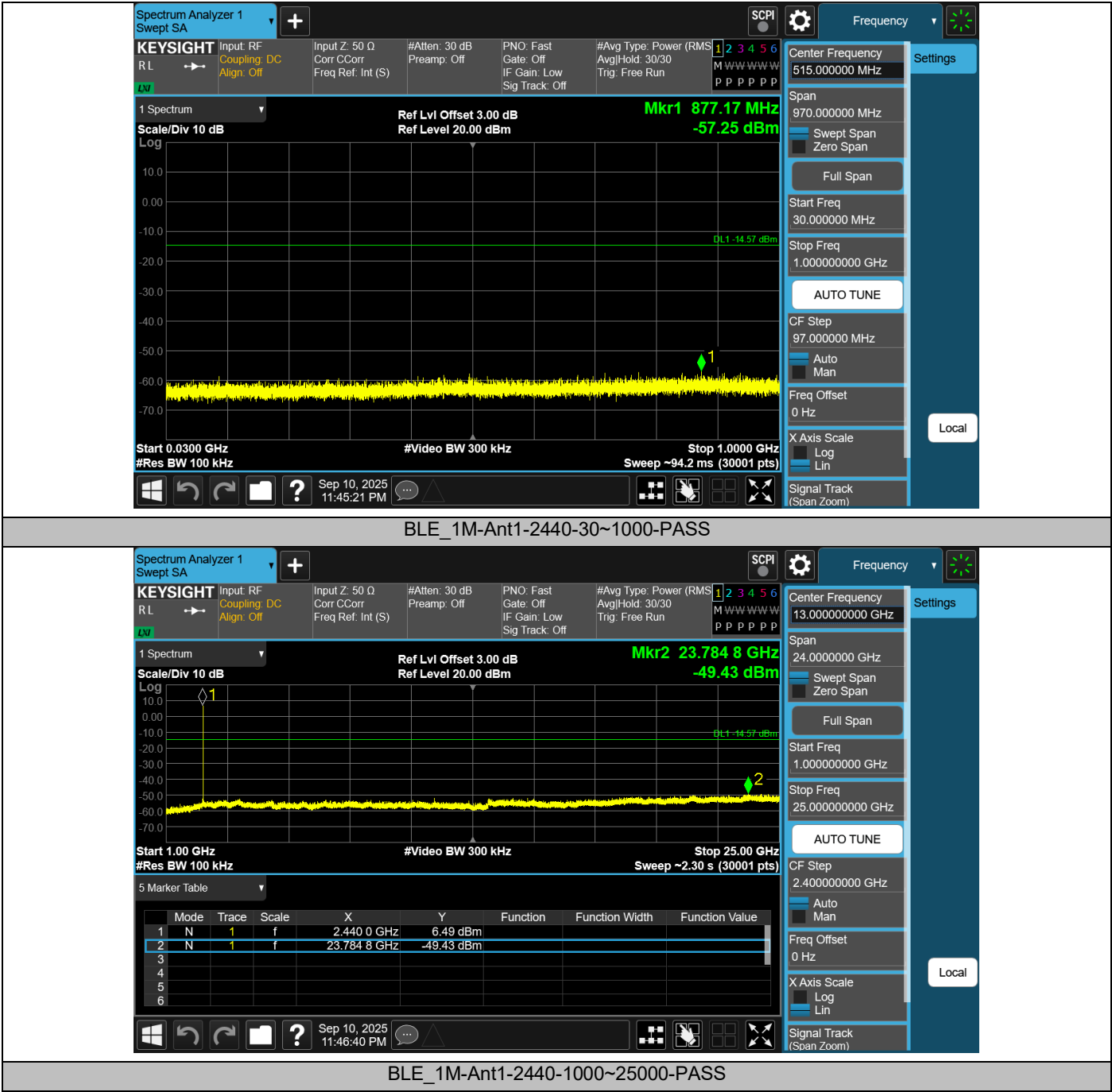


BLE_2M-Ant1-2480-PASS

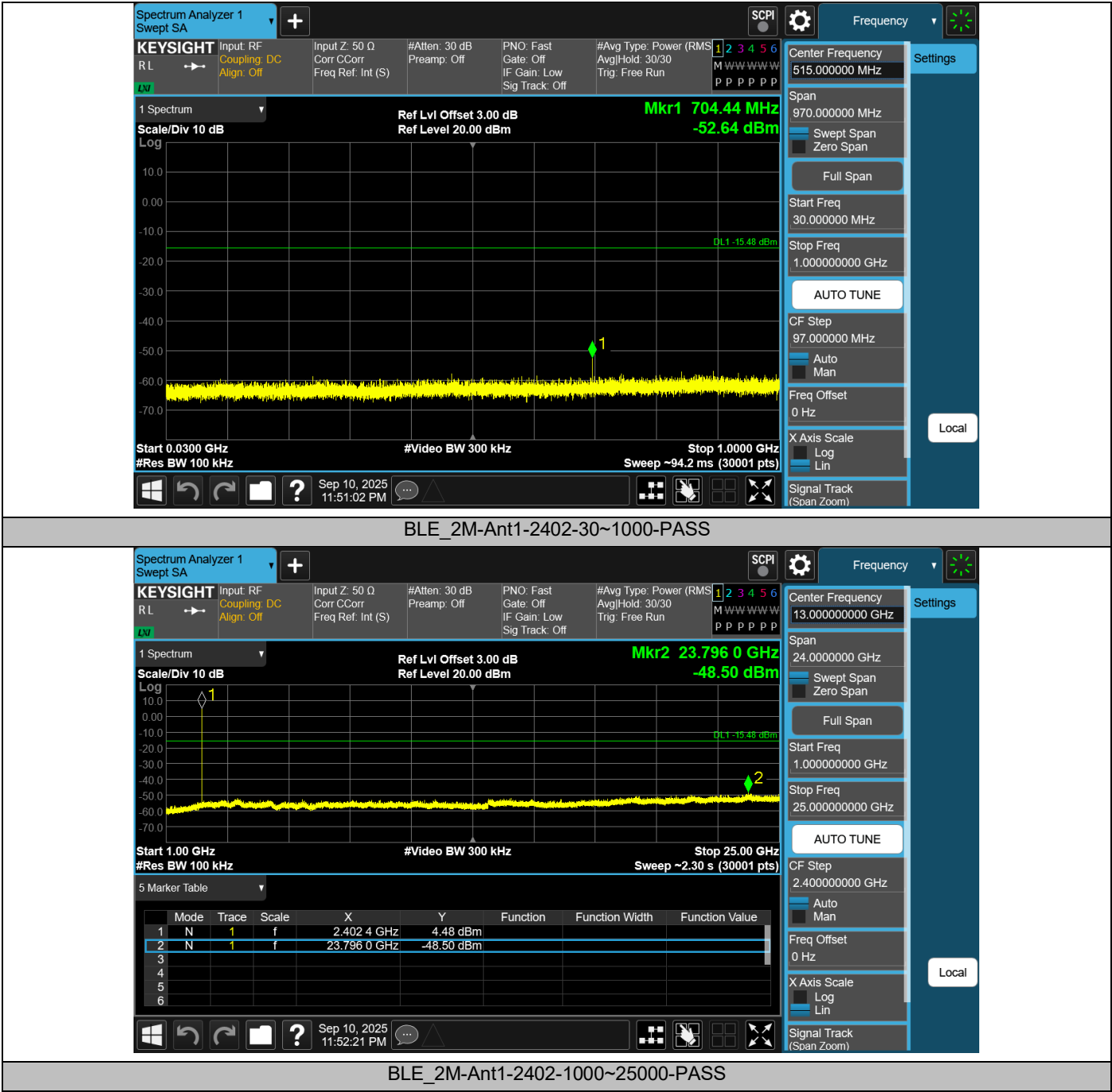
Test Graphs for Spurious Emission

Note: offset=cable loss

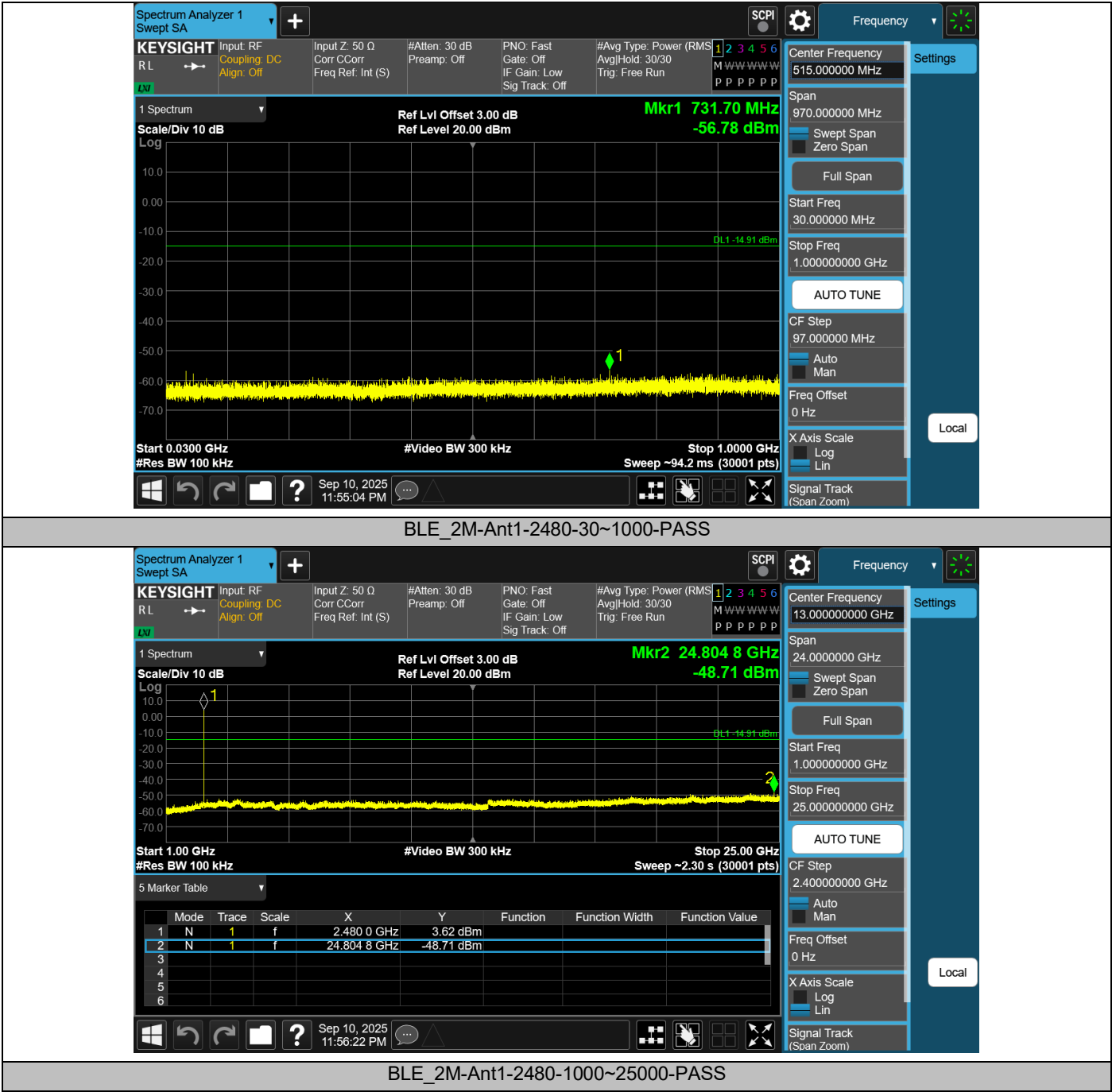










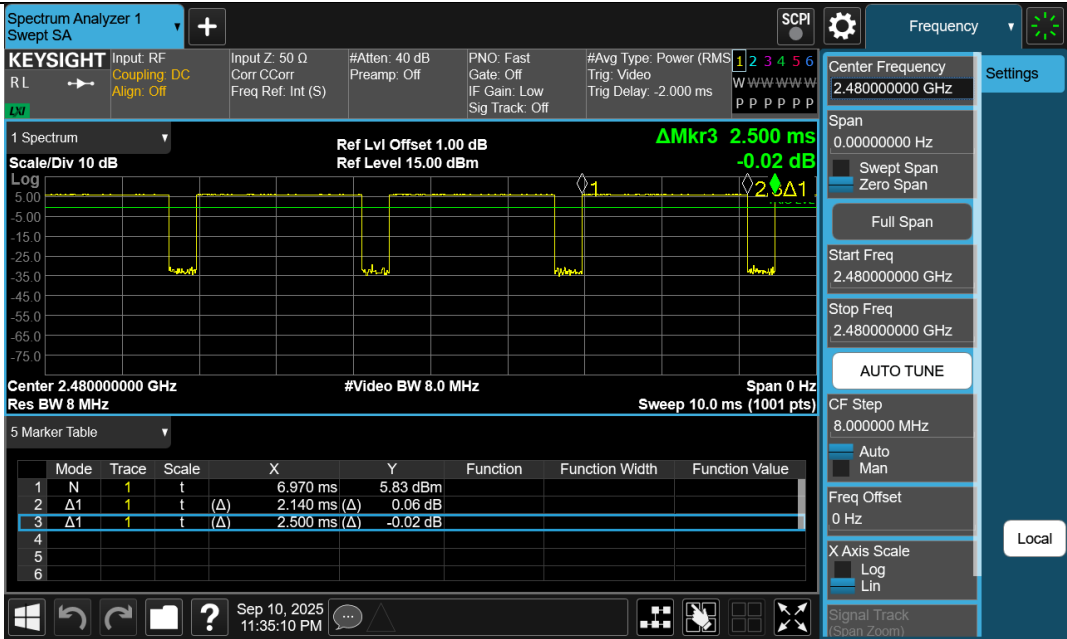


Appendix F: Duty Cycle

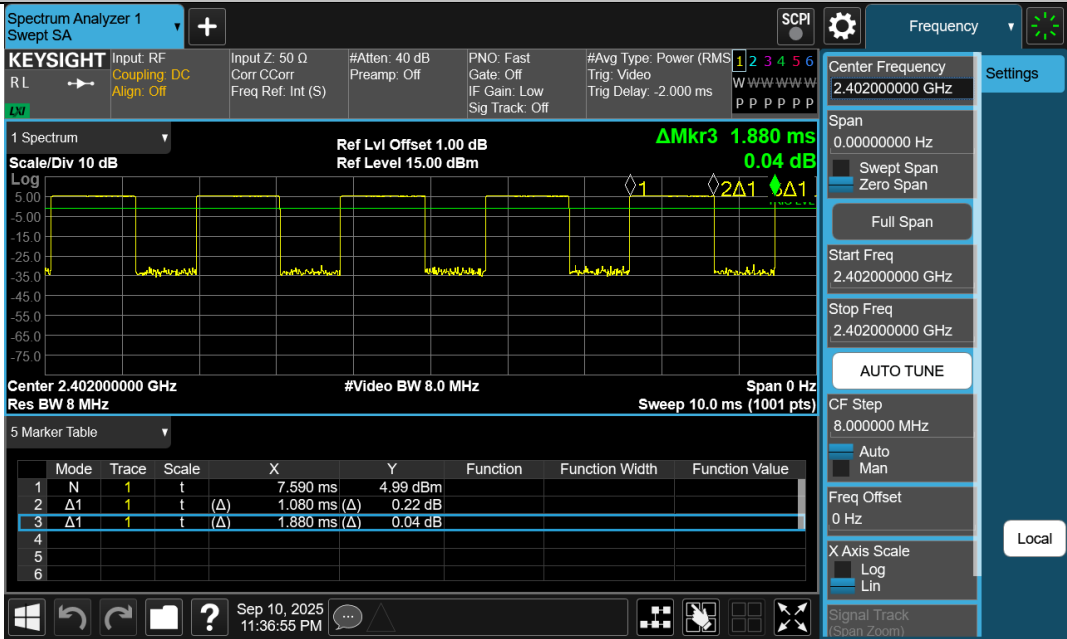
TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.14	2.50	85.60	0.68
BLE_1M	Ant1	2440	2.14	2.50	85.60	0.68
BLE_1M	Ant1	2480	2.14	2.50	85.60	0.68
BLE_2M	Ant1	2402	1.08	1.88	57.45	2.41
BLE_2M	Ant1	2440	1.08	1.88	57.45	2.41
BLE_2M	Ant1	2480	1.08	1.88	57.45	2.41

Test Graphs

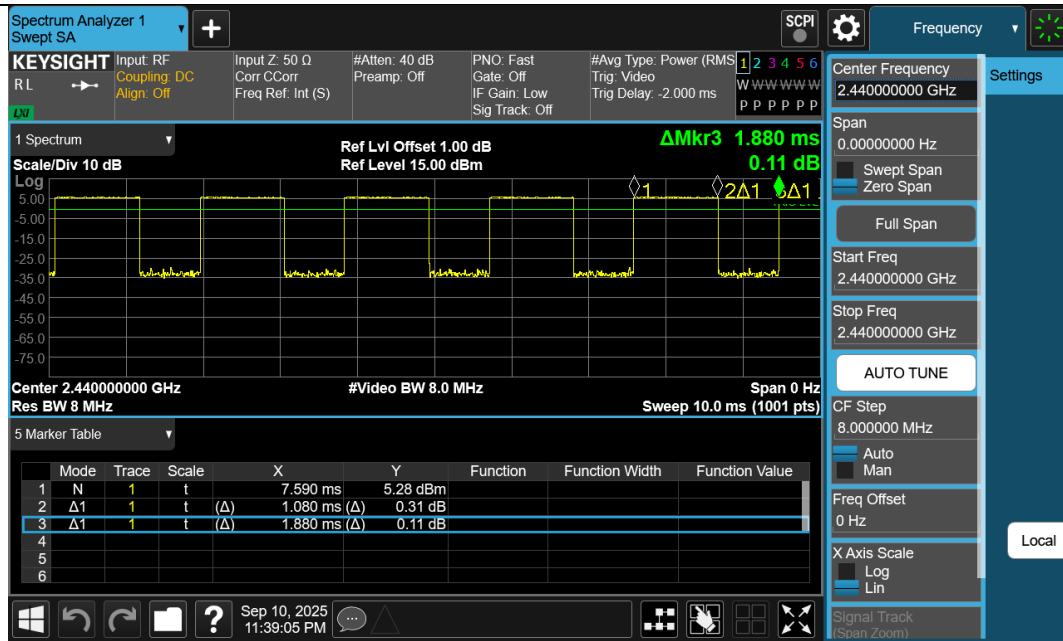




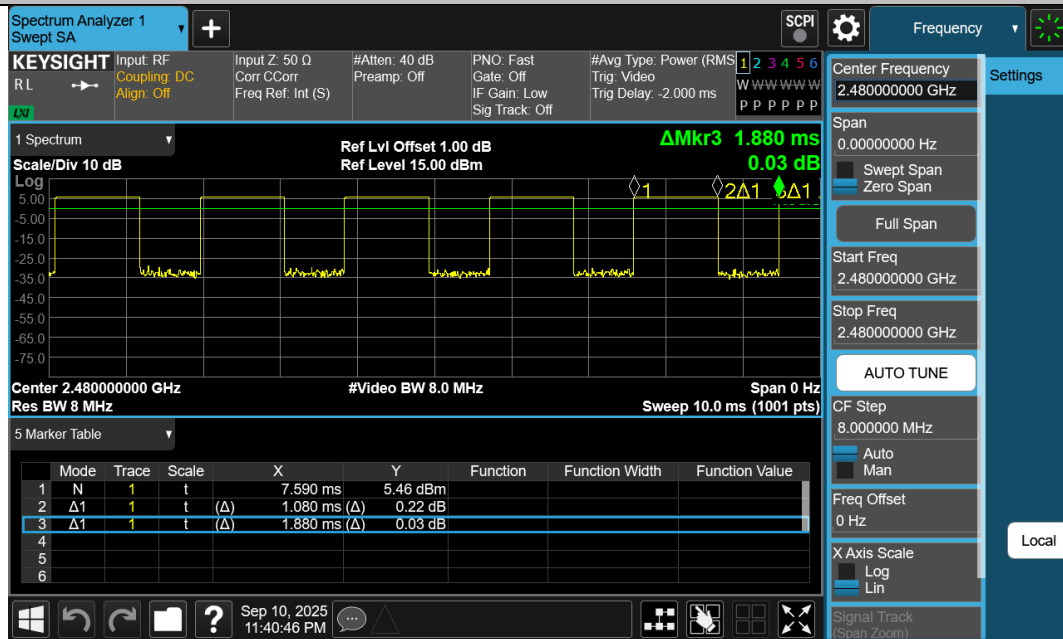
NTNV-BLE_1M-Ant1-2480



NTNV-BLE_2M-Ant1-2402



NTNV-BLE_2M-Ant1-2440

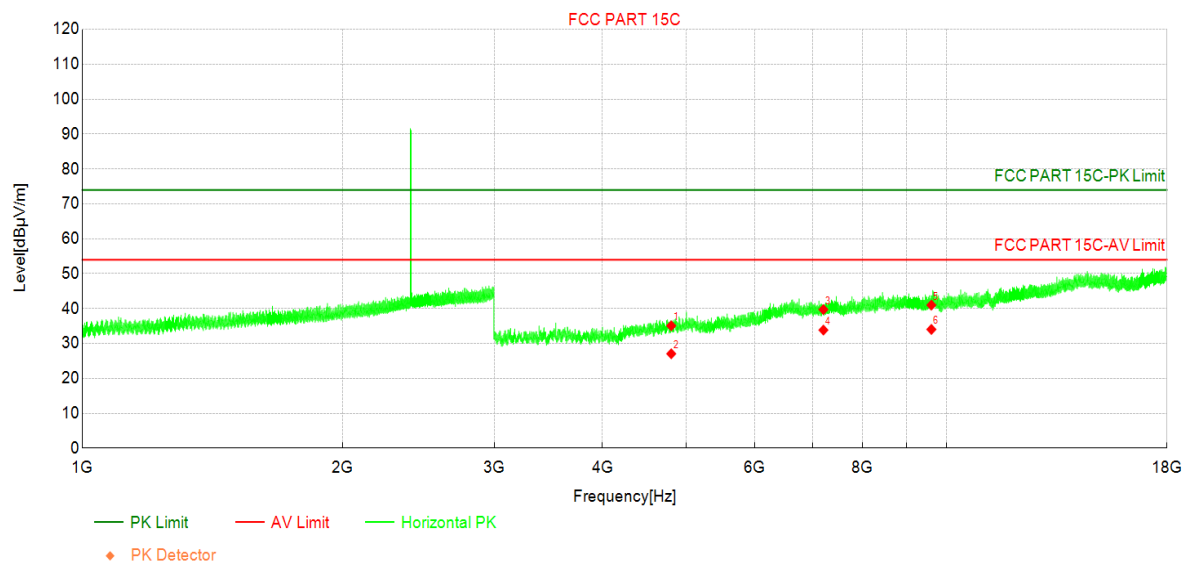


NTNV-BLE_2M-Ant1-2480

Appendix G: Emissions in Restricted Bands

Transmit at 2402MHz by LE_1Mbps

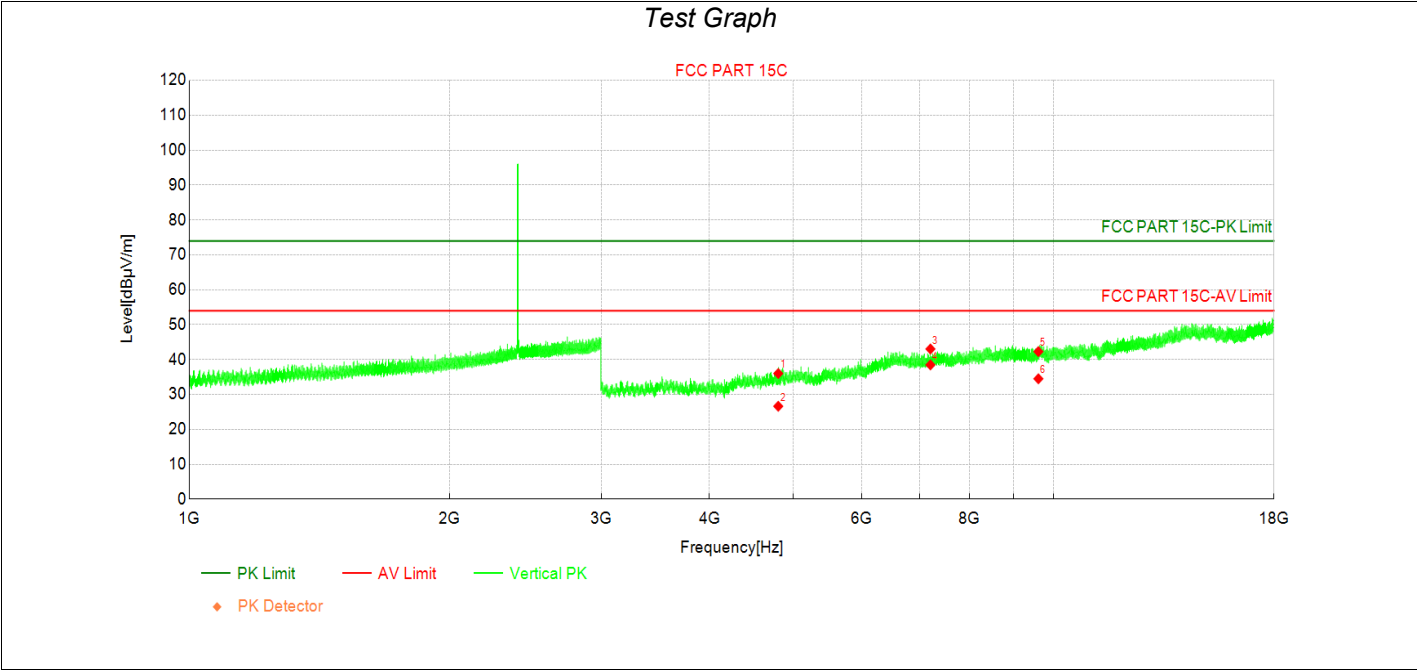
Test Graph



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4804.00	39.75	35.06	-4.69	74.00	38.94	PK	Horizo	PASS
2	4804.00	31.74	27.05	-4.69	54.00	26.95	AV	Horizo	PASS
3	7206.00	36.37	39.72	3.35	74.00	34.28	PK	Horizo	PASS
4	7206.00	30.49	33.84	3.35	54.00	20.16	AV	Horizo	PASS
5	9608.00	34.17	40.99	6.82	74.00	33.01	PK	Horizo	PASS
6	9608.00	27.20	34.02	6.82	54.00	19.98	AV	Horizo	PASS

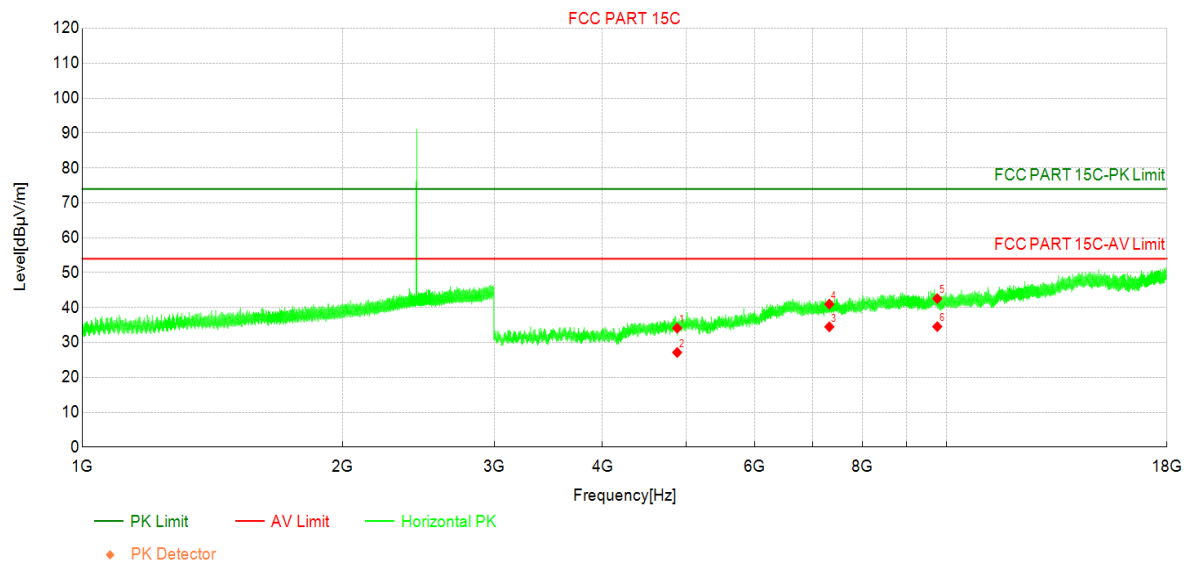
Transmit at 2402MHz by LE_1Mbps



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4804.00	40.69	36.00	-4.69	74.00	38.00	PK	Vertic	PASS
2	4804.00	31.31	26.62	-4.69	54.00	27.38	AV	Vertic	PASS
3	7206.00	39.68	43.03	3.35	74.00	30.97	PK	Vertic	PASS
4	7206.00	35.12	38.47	3.35	54.00	15.53	AV	Vertic	PASS
5	9608.00	35.47	42.29	6.82	74.00	31.71	PK	Vertic	PASS
6	9608.00	27.68	34.50	6.82	54.00	19.50	AV	Vertic	PASS

Transmit at 2440MHz by LE_1Mbps

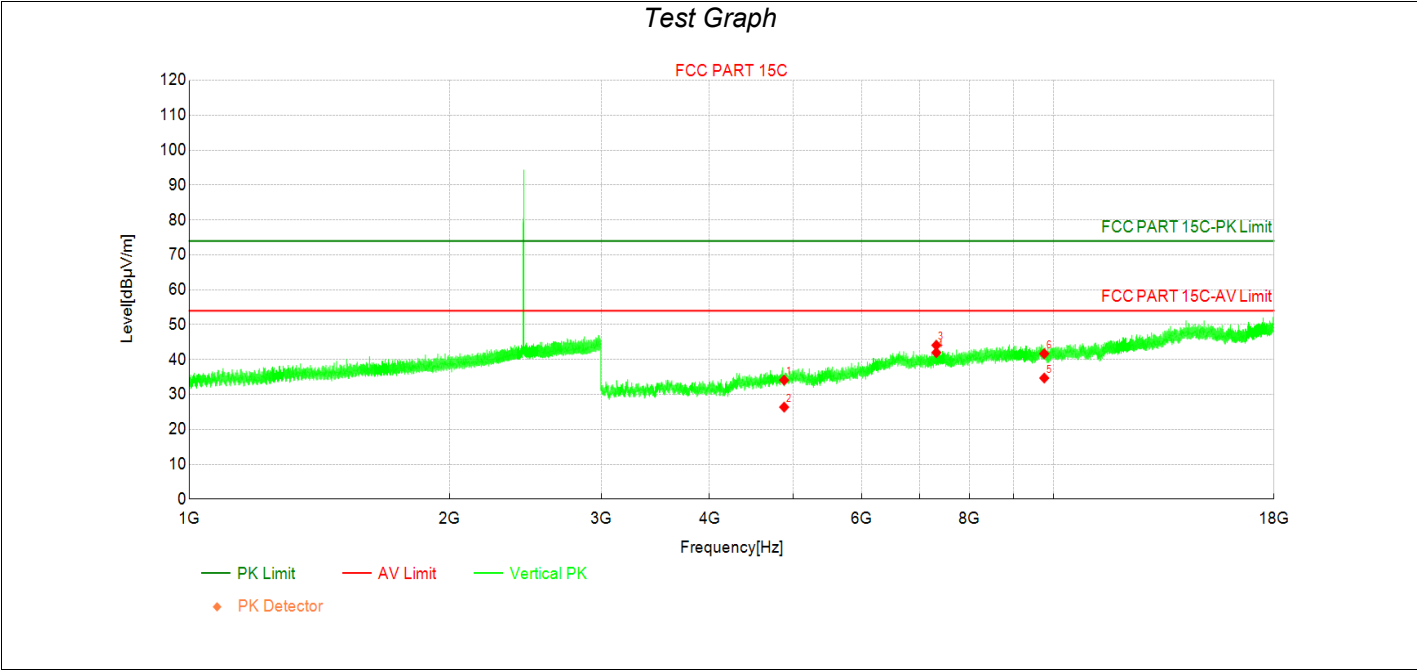
Test Graph



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4880.00	38.90	34.10	-4.80	74.00	39.90	PK	Horizo	PASS
2	4880.00	31.92	27.12	-4.80	54.00	26.88	AV	Horizo	PASS
3	7320.00	31.11	34.48	3.37	54.00	19.52	AV	Horizo	PASS
4	7320.00	37.60	40.97	3.37	74.00	33.03	PK	Horizo	PASS
5	9760.00	35.25	42.57	7.32	74.00	31.43	PK	Horizo	PASS
6	9760.00	27.21	34.53	7.32	54.00	19.47	AV	Horizo	PASS

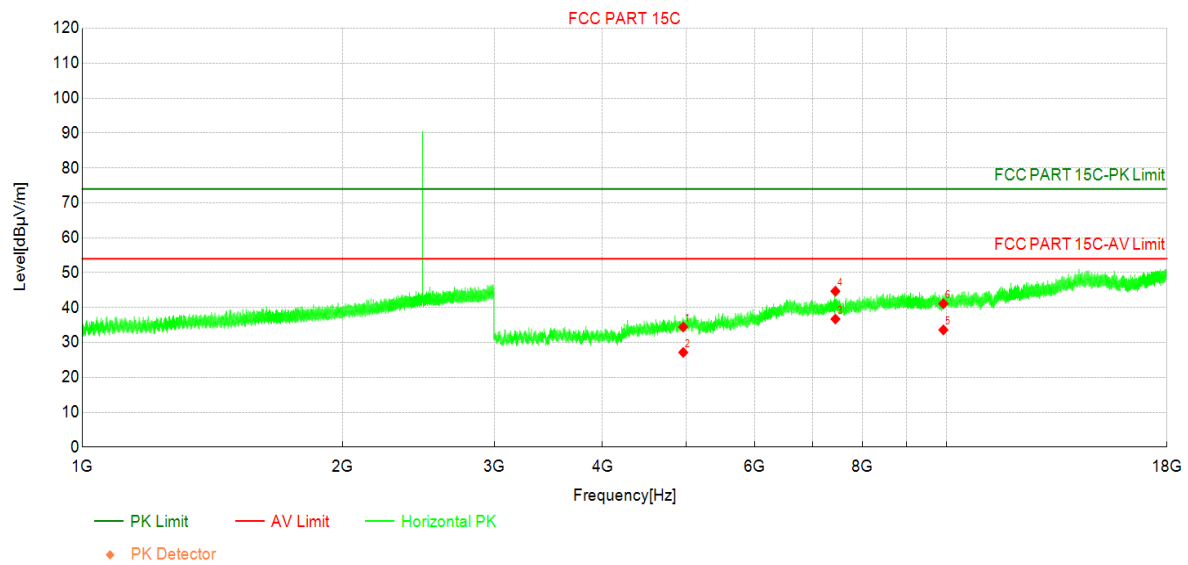
Transmit at 2440MHz by LE_1Mbps



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4880.00	38.89	34.09	-4.80	74.00	39.91	PK	Vertic	PASS
2	4880.00	31.17	26.37	-4.80	54.00	27.63	AV	Vertic	PASS
3	7320.00	40.74	44.11	3.37	74.00	29.89	PK	Vertic	PASS
4	7320.38	38.62	41.99	3.37	54.00	12.01	AV	Vertic	PASS
5	9760.00	27.38	34.70	7.32	54.00	19.30	AV	Vertic	PASS
6	9760.00	34.36	41.68	7.32	74.00	32.32	PK	Vertic	PASS

Transmit at 2480MHz by LE_1Mbps

Test Graph

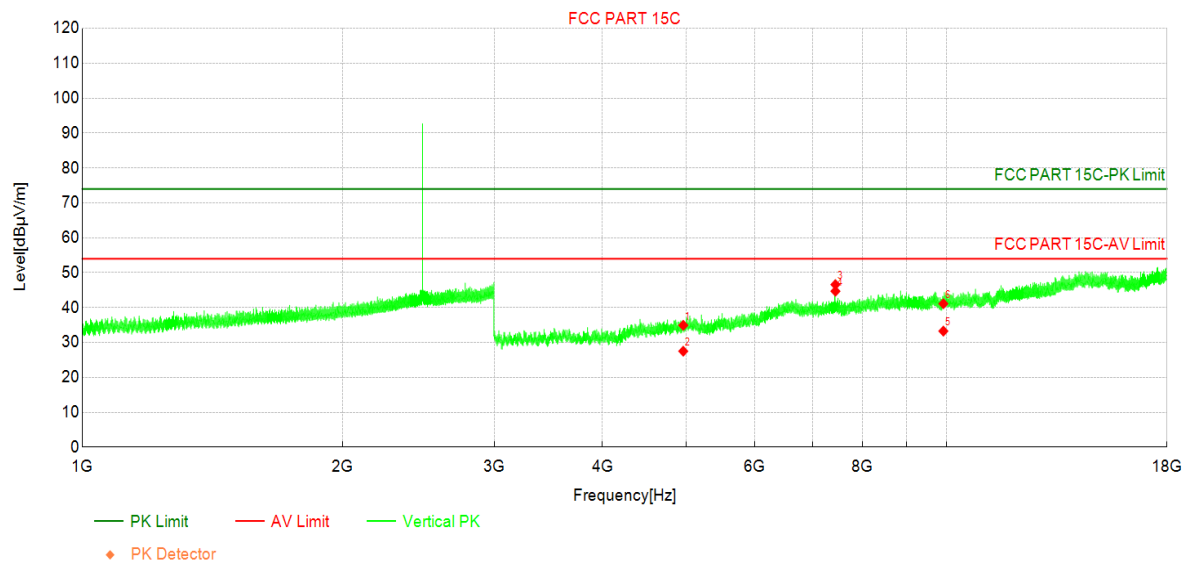


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4960.00	39.13	34.43	-4.70	74.00	39.57	PK	Horizo	PASS
2	4960.00	31.85	27.15	-4.70	54.00	26.85	AV	Horizo	PASS
3	7440.00	33.02	36.71	3.69	54.00	17.29	AV	Horizo	PASS
4	7440.38	40.99	44.68	3.69	74.00	29.32	PK	Horizo	PASS
5	9920.00	26.62	33.60	6.98	54.00	20.40	AV	Horizo	PASS
6	9920.00	34.13	41.11	6.98	74.00	32.89	PK	Horizo	PASS

Transmit at 2480MHz by LE_1Mbps

Test Graph

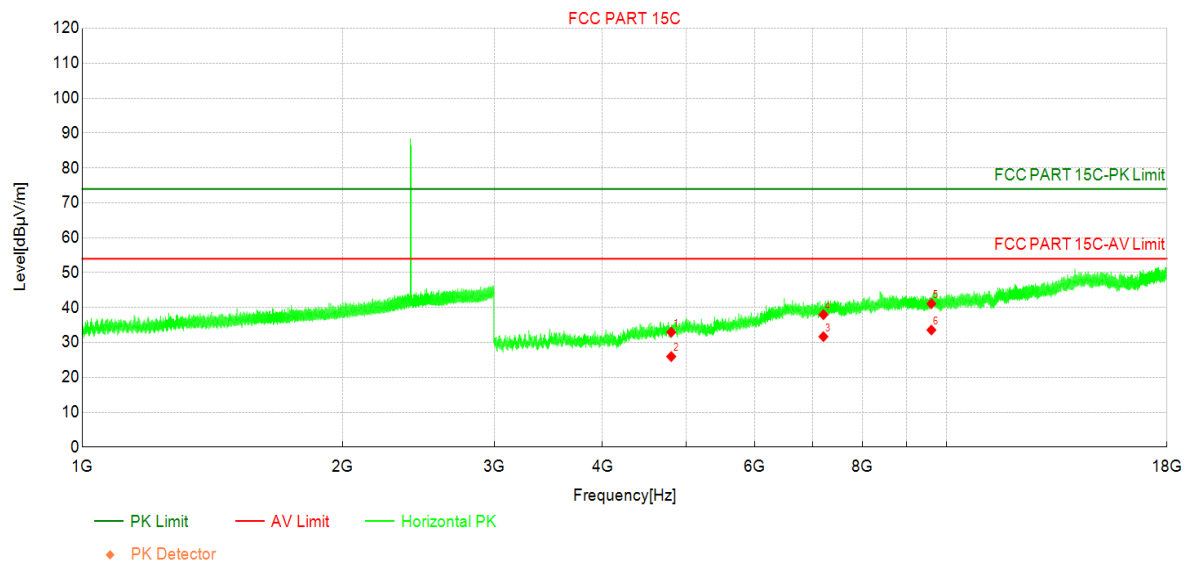


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4960.00	39.62	34.92	-4.70	74.00	39.08	PK	Vertic	PASS
2	4960.00	32.19	27.49	-4.70	54.00	26.51	AV	Vertic	PASS
3	7440.00	42.89	46.58	3.69	74.00	27.42	PK	Vertic	PASS
4	7440.38	41.00	44.69	3.69	54.00	9.31	AV	Vertic	PASS
5	9920.00	26.28	33.26	6.98	54.00	20.74	AV	Vertic	PASS
6	9920.00	34.12	41.10	6.98	74.00	32.90	PK	Vertic	PASS

Transmit at 2402MHz by LE_2Mbps

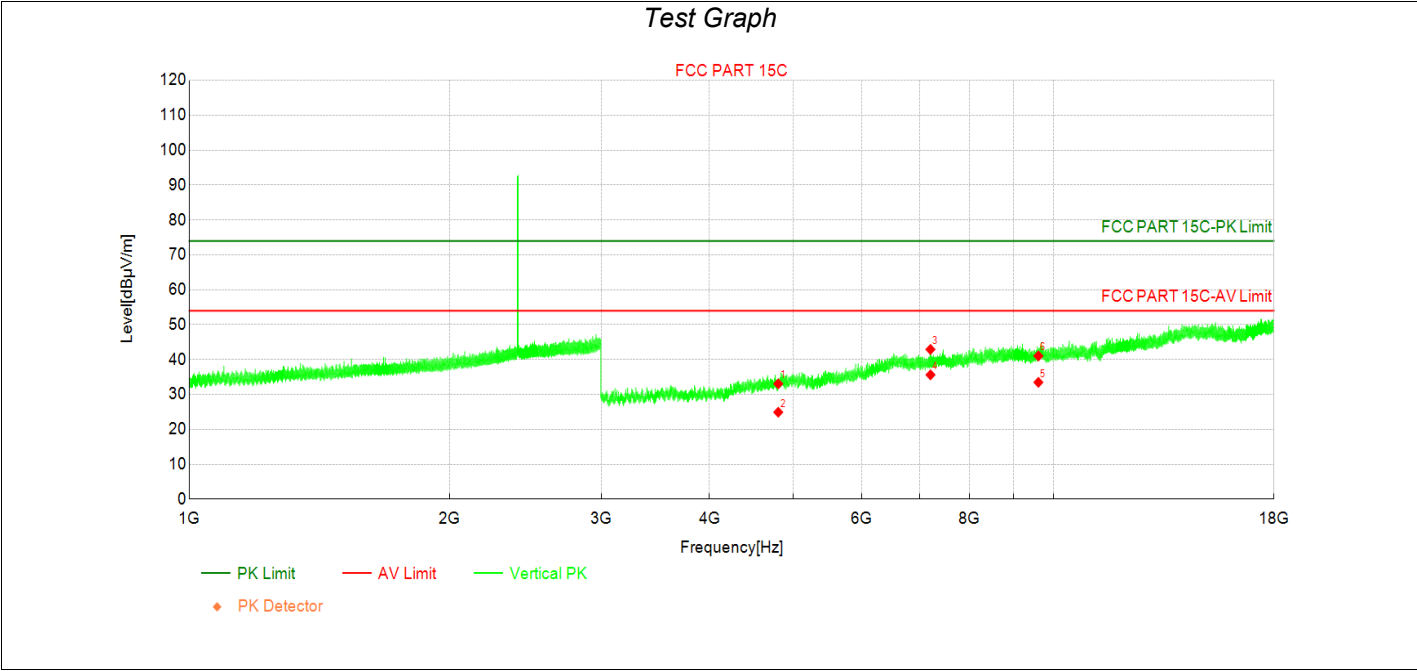
Test Graph



Data List

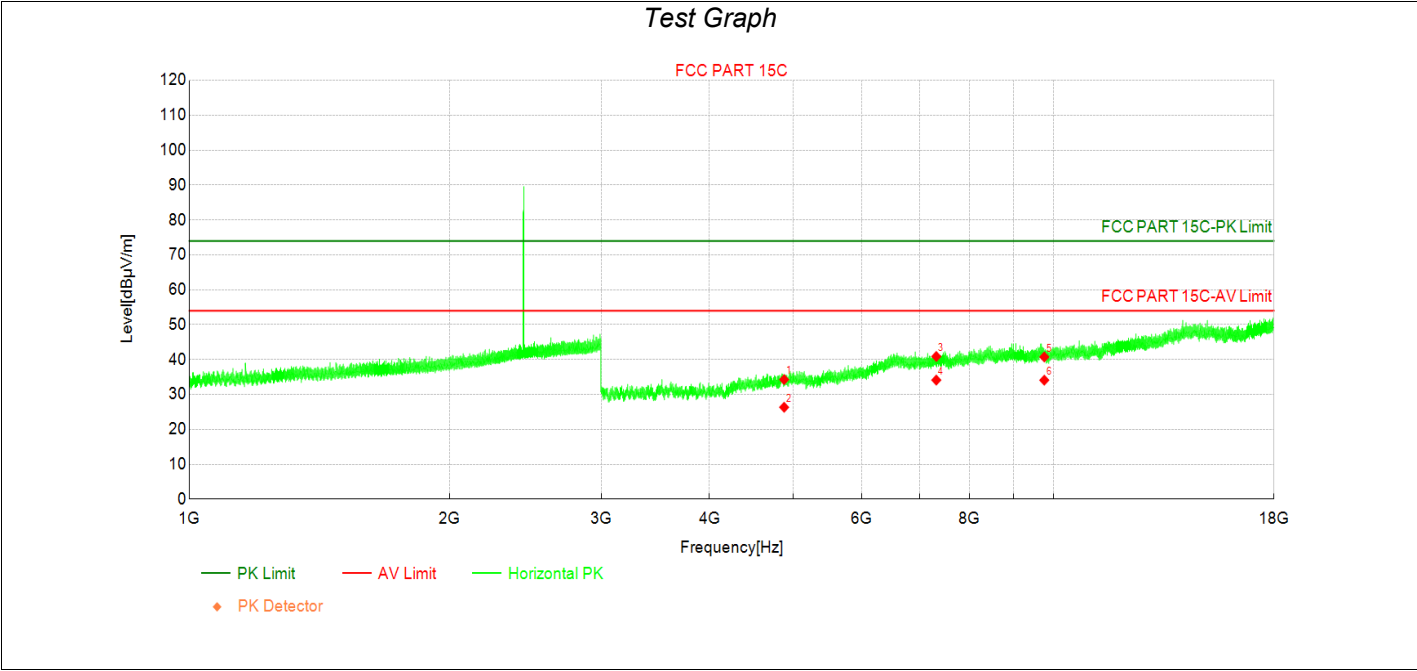
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4804.00	37.63	32.94	-4.69	74.00	41.06	PK	Horizo	PASS
2	4804.00	30.65	25.96	-4.69	54.00	28.04	AV	Horizo	PASS
3	7206.00	28.32	31.67	3.35	54.00	22.33	AV	Horizo	PASS
4	7206.00	34.62	37.97	3.35	74.00	36.03	PK	Horizo	PASS
5	9608.00	34.29	41.11	6.82	74.00	32.89	PK	Horizo	PASS
6	9608.00	26.75	33.57	6.82	54.00	20.43	AV	Horizo	PASS

Transmit at 2402MHz by LE_2Mbps



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4804.00	37.74	33.05	-4.69	74.00	40.95	PK	Vertic	PASS
2	4804.00	29.60	24.91	-4.69	54.00	29.09	AV	Vertic	PASS
3	7206.00	39.56	42.91	3.35	74.00	31.09	PK	Vertic	PASS
4	7207.50	32.27	35.62	3.35	54.00	18.38	AV	Vertic	PASS
5	9608.00	26.65	33.47	6.82	54.00	20.53	AV	Vertic	PASS
6	9608.00	34.22	41.04	6.82	74.00	32.96	PK	Vertic	PASS

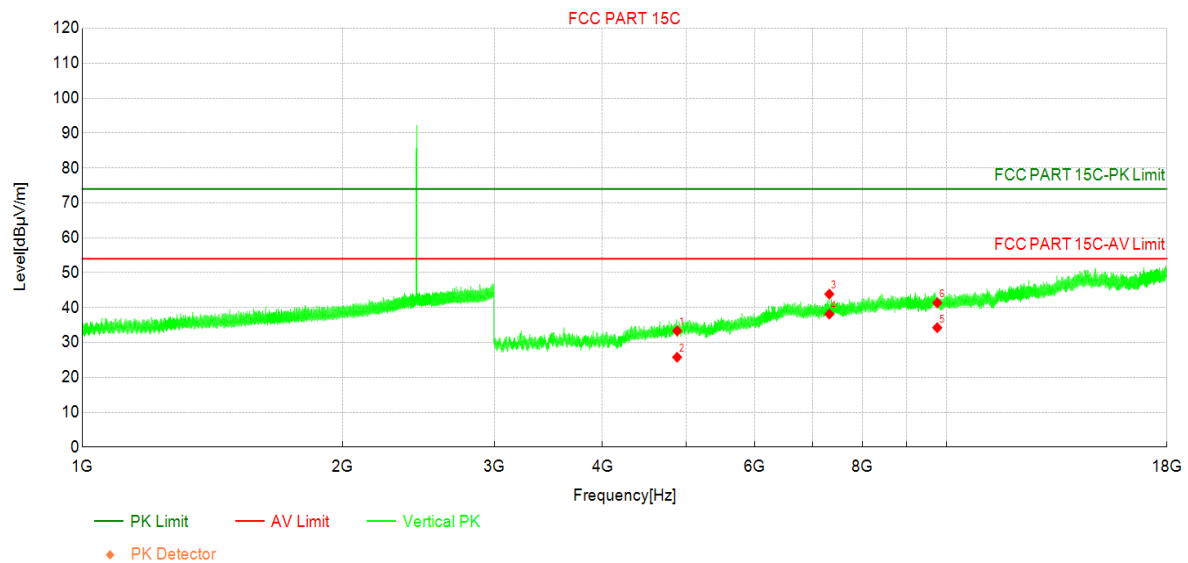
Transmit at 2440MHz by LE_2Mbps



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4880.00	39.07	34.27	-4.80	74.00	39.73	PK	Horizo	PASS
2	4880.00	31.13	26.33	-4.80	54.00	27.67	AV	Horizo	PASS
3	7320.00	37.51	40.88	3.37	74.00	33.12	PK	Horizo	PASS
4	7320.00	30.75	34.12	3.37	54.00	19.88	AV	Horizo	PASS
5	9760.00	33.42	40.74	7.32	74.00	33.26	PK	Horizo	PASS
6	9760.00	26.78	34.10	7.32	54.00	19.90	AV	Horizo	PASS

Transmit at 2440MHz by LE_2Mbps

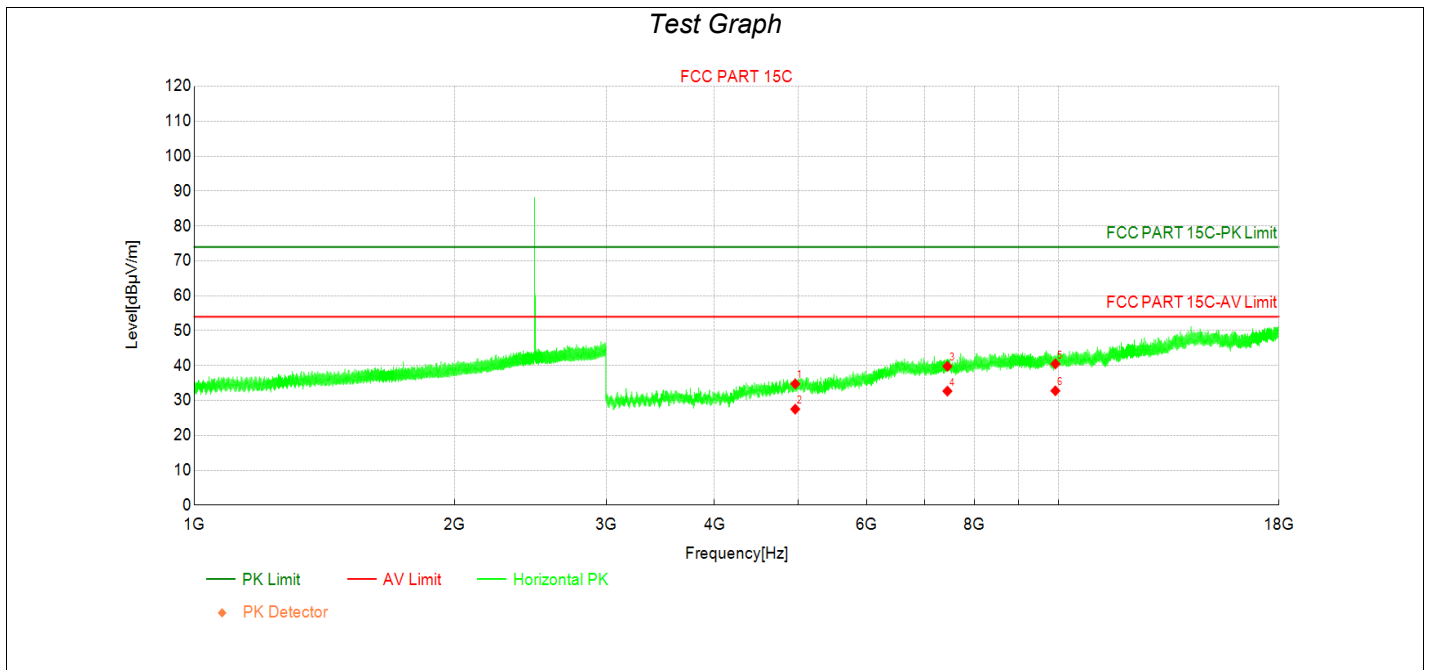
Test Graph



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4880.00	38.11	33.31	-4.80	74.00	40.69	PK	Vertic	PASS
2	4880.00	30.56	25.76	-4.80	54.00	28.24	AV	Vertic	PASS
3	7320.00	40.48	43.85	3.37	74.00	30.15	PK	Vertic	PASS
4	7320.38	34.75	38.12	3.37	54.00	15.88	AV	Vertic	PASS
5	9760.00	26.91	34.23	7.32	54.00	19.77	AV	Vertic	PASS
6	9760.00	34.04	41.36	7.32	74.00	32.64	PK	Vertic	PASS

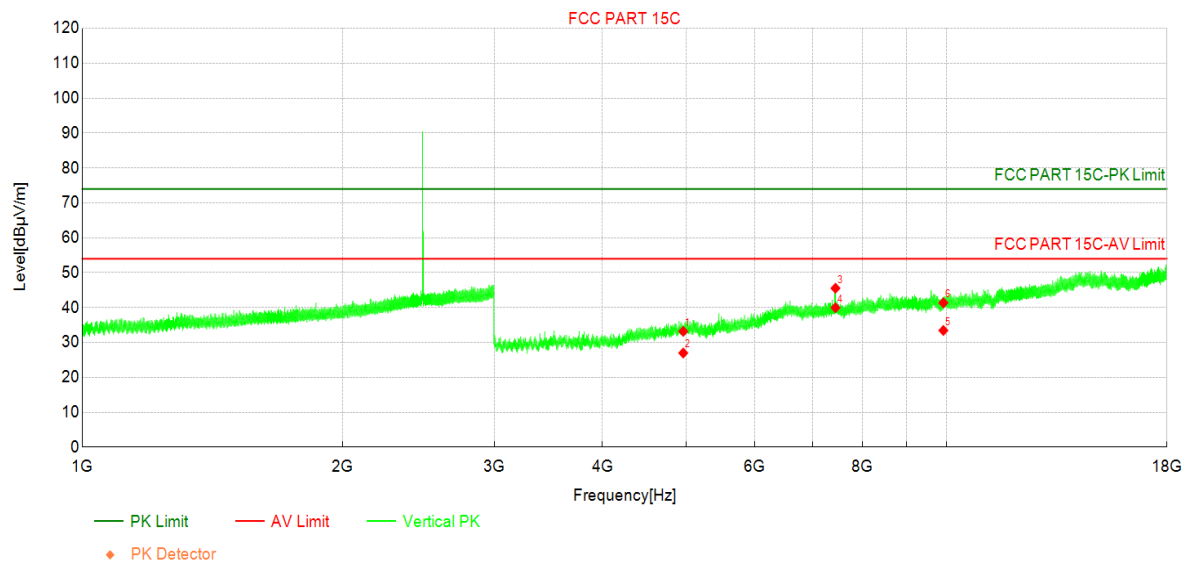
Transmit at 2480MHz by LE_2Mbps



Data List									
NO	Frequenc y [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdi ct
1	4960.00	39.45	34.75	-4.70	74.00	39.25	PK	Horizo	PASS
2	4960.00	32.21	27.51	-4.70	54.00	26.49	AV	Horizo	PASS
3	7440.00	36.11	39.80	3.69	74.00	34.20	PK	Horizo	PASS
4	7440.00	28.99	32.68	3.69	54.00	21.32	AV	Horizo	PASS
5	9920.00	33.51	40.49	6.98	74.00	33.51	PK	Horizo	PASS
6	9920.00	25.79	32.77	6.98	54.00	21.23	AV	Horizo	PASS

Transmit at 2480MHz by LE_2Mbps

Test Graph



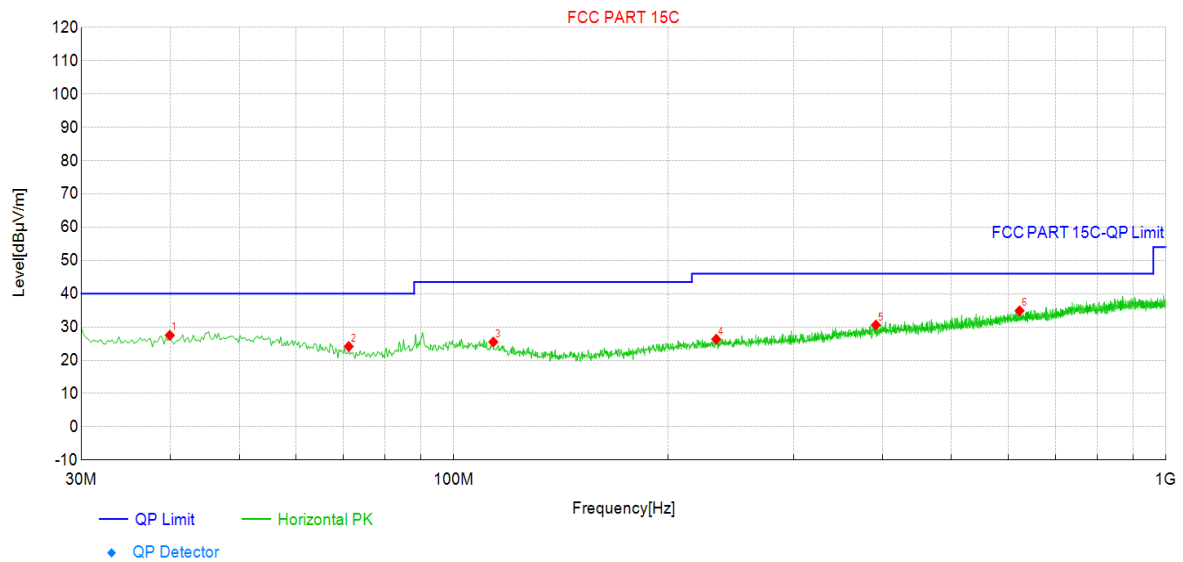
Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4960.00	37.88	33.18	-4.70	74.00	40.82	PK	Vertic	PASS
2	4960.00	31.67	26.97	-4.70	54.00	27.03	AV	Vertic	PASS
3	7441.50	41.84	45.54	3.70	74.00	28.46	PK	Vertic	PASS
4	7441.50	36.26	39.96	3.70	54.00	14.04	AV	Vertic	PASS
5	9920.00	26.47	33.45	6.98	54.00	20.55	AV	Vertic	PASS
6	9920.00	34.39	41.37	6.98	74.00	32.63	PK	Vertic	PASS

The worst case of Radiated Emission below 1GHz :

Transmit at 2402MHz by LE_1Mbps

Test Graph

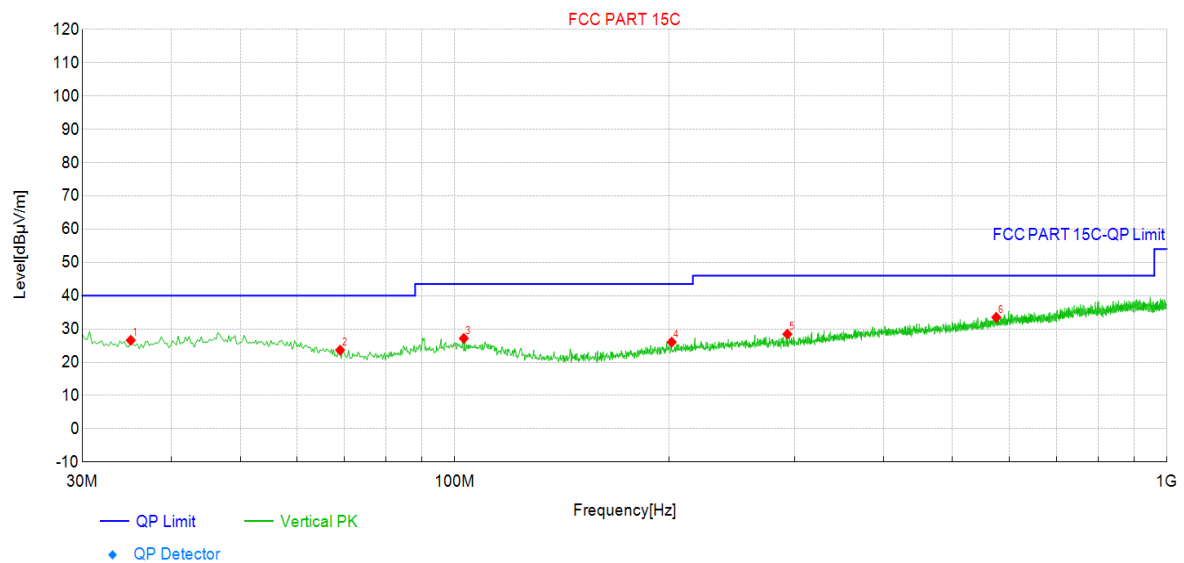


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	39.94	13.6	27.50	13.880	40.00	12.50	PK	Horizo	PASS
2	71.23	14.0	24.15	10.190	40.00	15.85	PK	Horizo	PASS
3	113.66	13.7	25.49	11.750	43.50	18.01	PK	Horizo	PASS
4	233.70	13.5	26.33	12.840	46.00	19.67	PK	Horizo	PASS
5	391.57	14.5	30.60	16.090	46.00	15.40	PK	Horizo	PASS
6	622.91	14.9	34.88	19.970	46.00	11.12	PK	Horizo	PASS

Transmit at 2402MHz by LE_1Mbps

Test Graph



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	35.09	13.4	26.60	13.180	40.00	13.40	PK	Vertic	PASS
2	69.04	13.2	23.64	10.480	40.00	16.36	PK	Vertic	PASS
3	102.99	14.7	27.18	12.520	43.50	16.32	PK	Vertic	PASS
4	201.69	14.1	26.05	11.990	43.50	17.45	PK	Vertic	PASS
5	293.11	14.5	28.45	13.950	46.00	17.55	PK	Vertic	PASS
6	575.87	14.3	33.51	19.170	46.00	12.49	PK	Vertic	PASS

Note:

1. Level = Reading + Factor

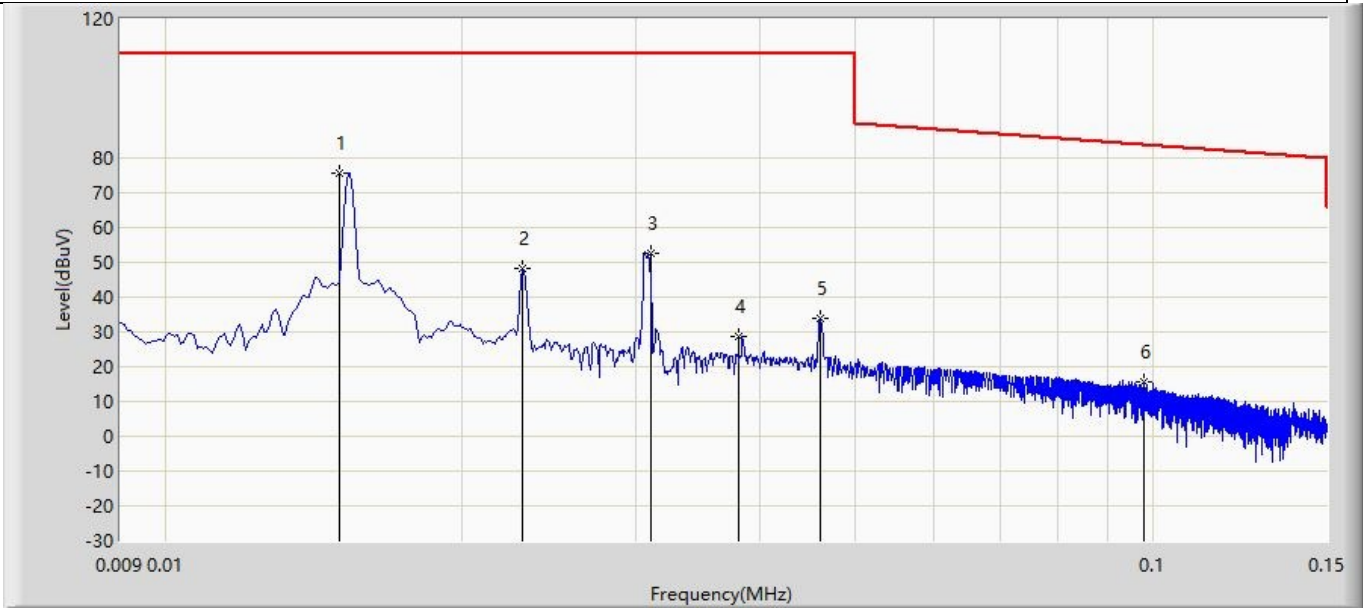
2. Margin = Limit - Level

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

4. 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.

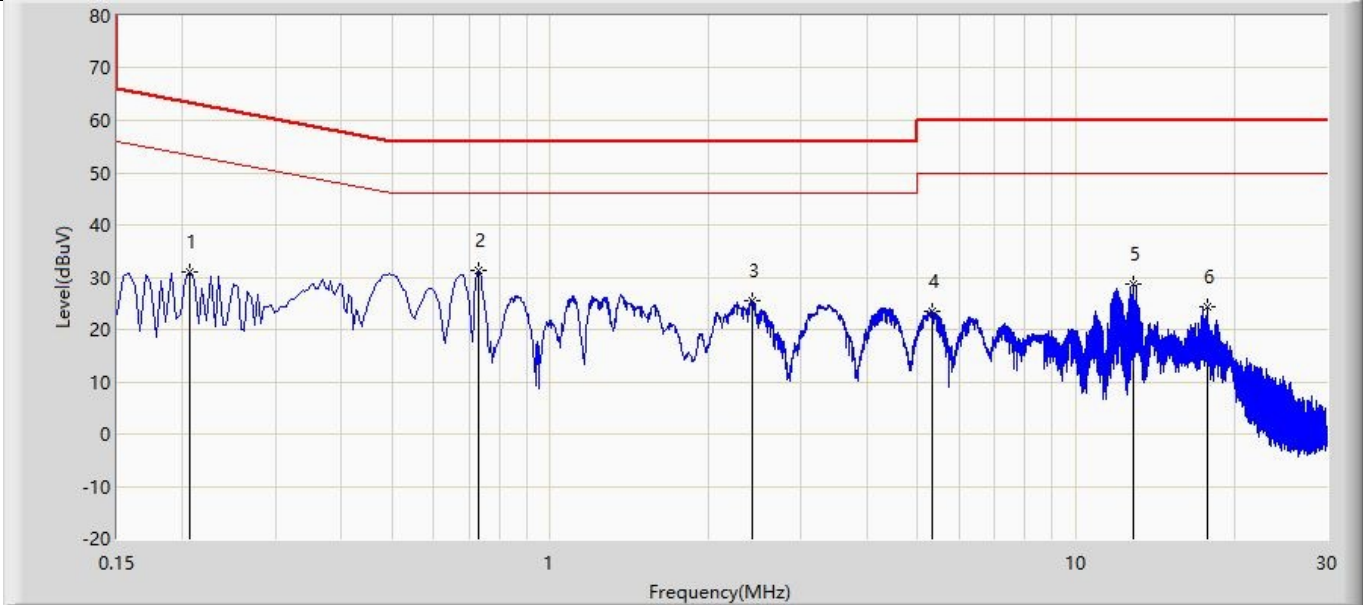
Appendix H: AC Power Line Conducted Emission

Profile: 2580636R	Page No.: 1
Engineer: Yu Liu	
Site: TR1	Time: 2025/09/10 - 20:07
Limit: FCC_CE_AC Power-1	Margin: 0
Probe: ENV216_101189(0.009-30MHz)	Polarity: Line
EUT: SC254-WBA3	Power: AC 120V
Note: Transmit at 2402MHz by LE_1Mbps	



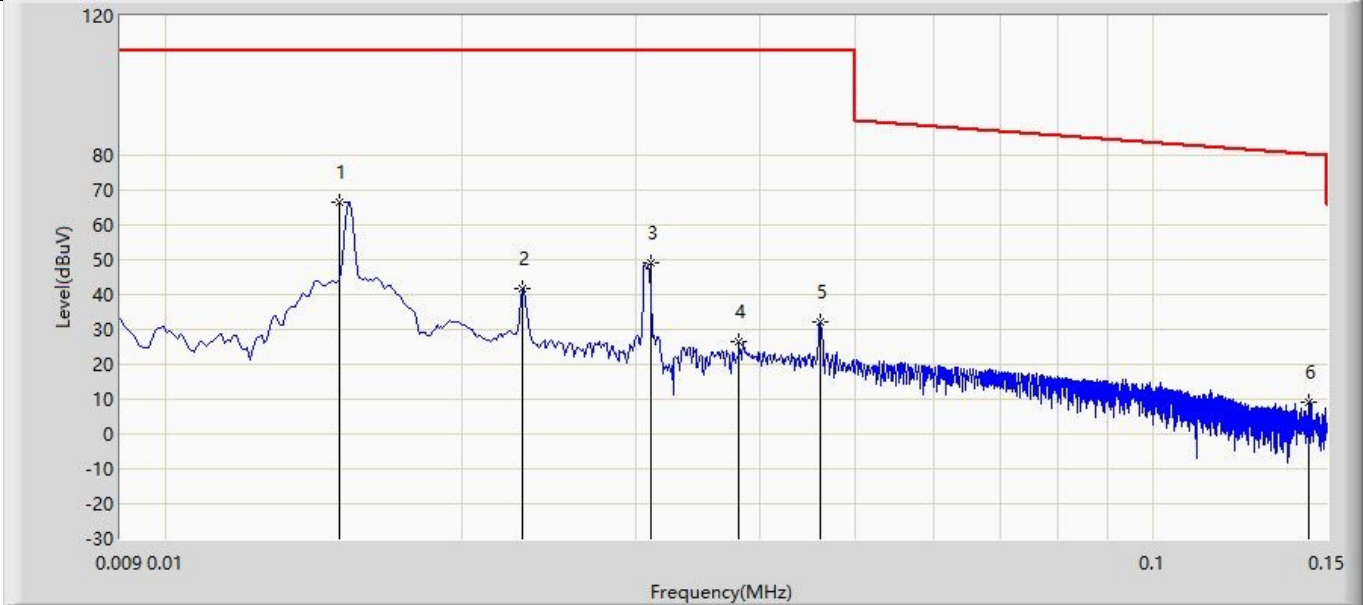
No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1	*	0.015	75.517	65.272	-34.483	110.000	10.245	QP
2		0.023	48.266	38.189	-61.734	110.000	10.077	QP
3		0.031	52.594	42.684	-57.406	110.000	9.910	QP
4		0.038	28.551	18.787	-81.449	110.000	9.764	QP
5		0.046	33.882	24.147	-76.118	110.000	9.735	QP
6		0.098	15.684	5.992	-68.191	83.875	9.692	QP

Profile: 2580636R	Page No.: 2
Engineer: Yu Liu	
Site: TR1	Time: 2025/09/10 - 20:07
Limit: FCC_CE_AC Power-1	Margin: 0
Probe: ENV216_101189(0.009-30MHz)	Polarity: Line
EUT: SC254-WBA3	Power: AC 120V
Note: Transmit at 2402MHz by LE_1Mbps	



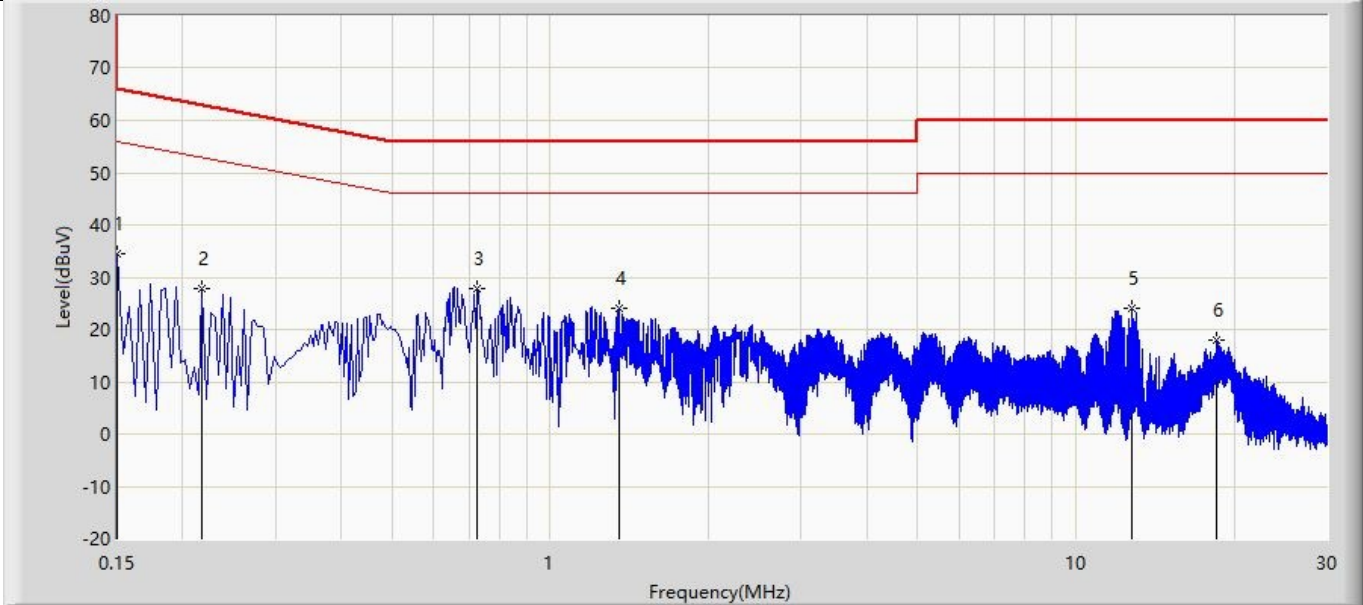
No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.206	31.154	21.497	-32.211	63.365	9.657	QP
2	*	0.730	31.184	21.520	-24.816	56.000	9.664	QP
3		2.426	25.523	15.744	-30.477	56.000	9.779	QP
4		5.326	23.511	13.692	-36.489	60.000	9.819	QP
5		12.854	28.711	18.738	-31.289	60.000	9.973	QP
6		17.830	24.373	14.020	-35.627	60.000	10.353	QP

Profile: 2580636R	Page No.: 3
Engineer: Yu Liu	
Site: TR1	Time: 2025/09/10 - 20:08
Limit: FCC_CE_AC Power-1	Margin: 0
Probe: ENV216_101189(0.009-30MHz)	Polarity: Neutral
EUT: SC254-WBA3	Power: AC 120V
Note: Transmit at 2402MHz by LE_1Mbps	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1	*	0.015	66.676	56.398	-43.324	110.000	10.278	QP
2		0.023	41.635	31.534	-68.365	110.000	10.101	QP
3		0.031	49.103	39.178	-60.897	110.000	9.925	QP
4		0.038	26.315	16.544	-83.685	110.000	9.771	QP
5		0.046	32.318	22.580	-77.682	110.000	9.738	QP
6		0.144	8.917	-0.768	-71.454	80.372	9.685	QP

Profile: 2580636R	Page No.: 4
Engineer: Yu Liu	
Site: TR1	Time: 2025/09/10 - 20:09
Limit: FCC_CE_AC Power-1	Margin: 0
Probe: ENV216_101189(0.009-30MHz)	Polarity: Neutral
EUT: SC254-WBA3	Power: AC 120V
Note: Transmit at 2402MHz by LE_1Mbps	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.150	34.424	24.736	-31.576	66.000	9.688	QP
2		0.218	27.701	18.061	-35.193	62.895	9.641	QP
3	*	0.726	27.936	18.283	-28.064	56.000	9.653	QP
4		1.354	23.958	14.272	-32.042	56.000	9.686	QP
5		12.786	24.144	14.134	-35.856	60.000	10.010	QP
6		18.546	17.954	7.618	-42.046	60.000	10.336	QP

Note:

1. " * ", means this data is the worst emission level.

2. Measurement Level = Reading Level + Factor.

The End